

PROPERTIES OF STEAM AND AMMONIA

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PREFACE

A TABLE of the thermal properties of a vapor should possess two characteristics, consistency and accuracy. A table is thermodynamically consistent when the tabular values are obtained from equations that are properly connected by the necessary thermodynamic relations, such as the Clausius and Clapeyron relations; it may be considered accurate if the calculated values show satisfactory agreement with trustworthy experimental data.

The older tables of the properties of steam were neither consistent nor accurate. The tabular values were calculated from empirical formulas based chiefly on Regnault's data, and the necessity of consistency was not recognized. Two sets of tables have been based on the general theory developed by Callendar. These are absolutely consistent, but in the light of the knowledge acquired from the Munich experiments, they can no longer be regarded as accurate. In certain tables that have appeared recently have been embodied the results of the Munich experiments and also the researches of Dr. Davis on the total heat of steam. These tables are undoubtedly far more accurate than the earlier tables, but, having a more or less empirical basis, they are not rigorously consistent.

The tables of the properties of saturated and superheated steam here presented are based on a new formulation the essential features of which are discussed in the first section of the book. A more complete exposition will be found in Bulletin No. 75, Engineering Experiment Station, University of Illinois. The new theory correlates perfectly the experiments on the volume and specific heat of superheated steam; it gives values of the heat content of saturated steam that agree with those deduced by Davis from the throttling experiments; and, in general, it meets satisfactorily all the tests furnished by the available experimental evidence. The tables derived from the formulation are necessarily consistent, and they are at the same time extremely accurate.

The tables of the properties of ammonia are based on a formulation worked out by Mr. W. E. Mosher and the author. (Bulletin No. 66, Eng'g Exper. Station, Univ. of Ill.) Since, in the case of ammonia, the experimental evidence is far from complete, the formulation is regarded as only tentative, and the tables will perhaps require revision as further experiments are made.

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PREFACE

Several supplementary tables have been included. Of these, Table 6, Mixtures of Air and Water Vapor, will be found specially useful in connection with problems that involve hygrometric conditions.

The Mollier diagrams for steam and ammonia can be used as a substitute for the tables in the approximate solution of certain classes of problems. The use of the diagrams is illustrated by the examples on pages 27 and 28.

The author acknowledges his indebtedness to Mr. W. E. Mosher for his cordial consent to the use of the ammonia tables; and to Professors L. A. Harding and A. C. Willard for many valuable suggestions.

URBANA, ILL., June, 1915.

G. A. GOODENOUGH.

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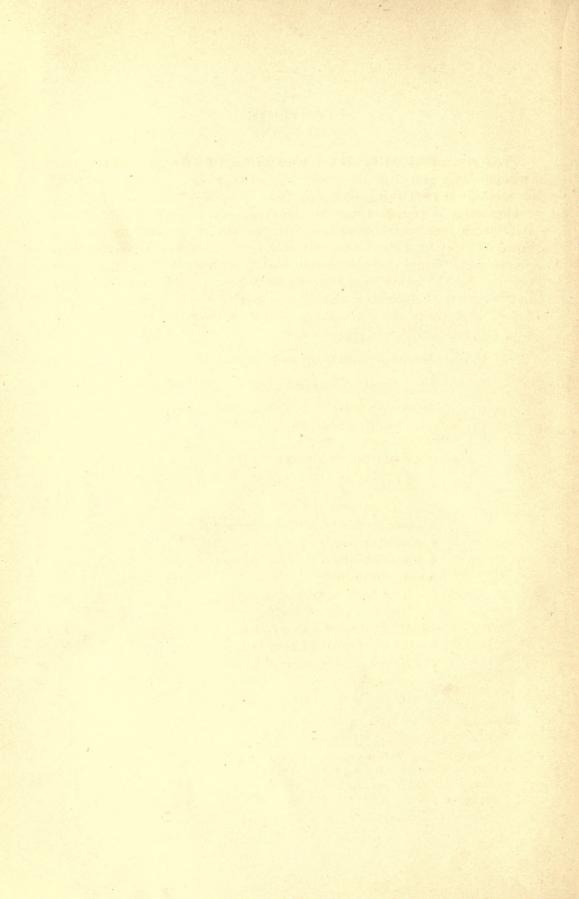
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NOTATION

The symbols given below are used throughout the preliminary discussion of the properties of vapors, and in the tables. In the selection of symbols the following principles have been observed. I. The prevailing usage of recent writers on thermodynamics, for example, Bryan and Planck, has been followed. 2. In the case of magnitudes proportional to the mass of the medium under consideration, as volume, entropy, energy, small (lower case) letters are used to represent the value per unit weight. 3. The liquid state is characterized by a symbol with a prime, and the state of saturated vapor by a double prime. Thus s' and u' denote respectively the entropy and energy of the liquid, s'' and u'', the same properties of the saturated vapor.

J = mechanical equivalent of heat

 $A = \frac{1}{I}$, reciprocal of mechanical equivalent

t = temperature on F. or C. scale

T = absolute temperature

 $\phi = \text{pressure}$

v = volume of unit weight (I lb.) of fluid

 $\gamma = \frac{1}{\pi}$ weight of unit volume

 $c_v =$ specific heat at constant volume

 c_p = specific heat at constant pressure

u = intrinsic energy per unit weight

q = heat absorbed by fluid per unit weight

q' = heat of liquid

q'' =total heat of saturated steam

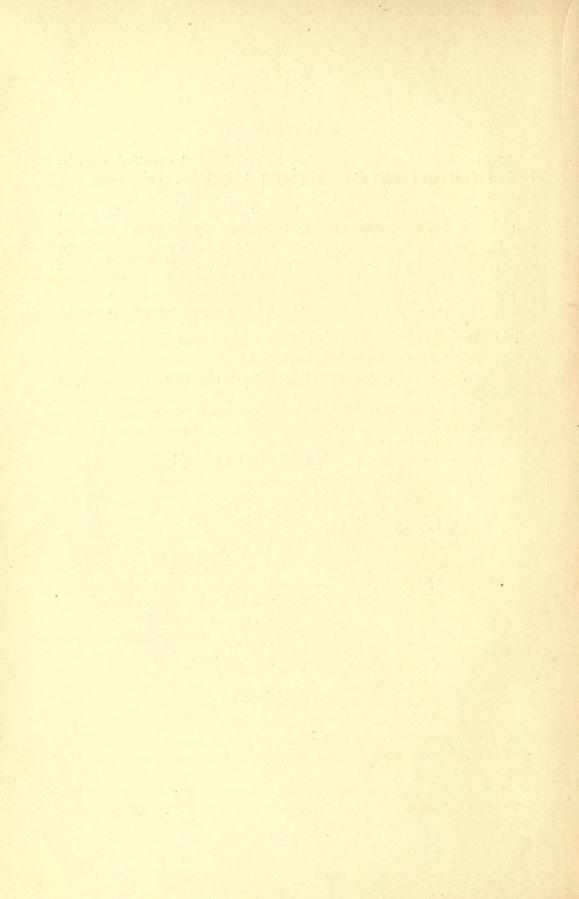
i = heat content = u + Apv

r = latent heat of vaporization

 $\rho = r - \psi =$ internal latent heat

 $\psi = A p (v'' - v') =$ external latent heat

- s = entropy
- $\mu =$ Joule-Thomson coefficient



Properties of Steam and Ammonia

THE THERMAL PROPERTIES OF STEAM

Experimental Data. — Recent experimental investigations of the various properties of saturated and superheated steam have furnished data of a high degree of accuracy covering nearly every phase of the subject. The following is a summary of the more important of these investigations.

I. The relation between the pressure and temperature of saturated steam has been established definitely by three series of experiments made respectively by Holborn and Henning, Holborn and Baumann, and Scheel and Heuse. The three series taken together cover the range 32° F. to the critical temperature. These experiments were conducted at the Reichsanstalt with all the resources afforded by modern apparatus and methods of precise measurement.

2. The relation between volume, pressure, and temperature of superheated steam has been determined by the experiments of Knoblauch, Linde, and Klebe at the Munich laboratory. These experiments afford satisfactory data for the range of pressure and superheat covered.

3. A number of experiments have been made to determine the specific heat of superheated steam. Of these, the experiments conducted in the Munich laboratory, first by Knoblauch and Jakob and afterward by Knoblauch and Mollier, are justly accepted as the most reliable. Similar experiments covering a wider range of pressure are being made by Lanz and Schmidt.

4. The direct experiments of Griffiths, Joly, Smith, Henning, and Dieterici furnish data on the latent heat of saturated steam.

5. The variation of the specific heat of water has been the subject of several investigations. For the range $32^{\circ}-212^{\circ}$ F. the experiments of Barnes have been verified by those of Callendar, and they are generally accepted. Above 212° F. precise measurements of this important property are lacking. The only available experiments are those of Regnault and Dieterici, and neither of these can be accepted as thoroughly reliable.

6. Four sets of experiments on the throttling of steam by Grindley, Griessmann, Peake, and Dodge, respectively, furnish valuable data that may be used for various purposes.

2 PROPERTIES OF STEAM AND AMMONIA

Development of a General Theory. — The various thermal properties of a vapor are related through well-known thermodynamic laws. Thus the Clausius relation

$$\left(\frac{\partial c_p}{\partial p}\right)_T = -AT \left(\frac{\partial^2 v}{\partial T^2}\right)_p$$

connects the specific heats and volumes of the superheated vapor; and the Clapeyron equation

$$r = A T(v'' - v') \left(\frac{dp}{dT}\right)_{\rm sat}$$

expresses a relation between the latent heat r, temperature, change of volume v'' - v' during vaporization, and the derivative $\frac{dp}{dT}$ of the pressure-temperature function.

A satisfactory formulation of the properties of a vapor therefore involves two processes. I. The establishment of equations for the various properties that represent accurately the most reliable of the experimental data. 2. The correlation of such equations through the thermodynamic laws. If such correlation can be effected without sacrifice of accuracy, the resulting formulation will have the equally essential attributes, accuracy and consistency.

The experimental evidence summarized in the preceding section is sufficiently extensive and trustworthy to justify the conclusion that a satisfactory formulation of the properties of water vapor may be worked out; and in the following sections is described the development of a consistent theory that apparently gives with extreme accuracy the properties of superheated and saturated steam over a range of pressure and temperature far wider than the range employed in technical applications.

Pressures and Temperatures of Saturated Steam. — The early experiments of Regnault have been superseded by the recent experiments conducted at the Reichsanstalt. Each of the three series of experiments conducted covered a different range of temperature. Scheel and Heuse's * experiments covered the lower range $0-50^{\circ}$ C. $(32^{\circ}-122^{\circ}$ F.), Holborn and Henning's † the range $50^{\circ}-200^{\circ}$ C. $(122^{\circ}-392^{\circ}$ F.), while Holborn and Baumann's ‡ experiments extended from 200° C. to the critical temperature.

The values of the saturation pressure as deduced from the respective sets of experiments are given in the following tables. In the third table the values are not those given by Holborn and Baumann but values deduced therefrom by Prof. Marks.§

† Annalen der Physik (4), Vol. 25, pp. 833-883, 1908.

[‡] Annalen der Physik (4), Vol. 31, pp. 945–970, 1910. See also articles by Risteen: The Locomotive, Vol. 26, pp. 85, 183, 246; Vol. 27, p. 54; Vol. 28, pp. 88, 118.

§ Proc. A. S. M. E., Vol. 33, p. 572.

^{*} Annalen der Physik (4), Vol. 31, pp. 715-735, 1910.

SCHEEL AND HEUSE

Temp. °C.	Pressure in mm. of mercury										
° C.	0	I	2	3	4	5	6	7	8	9	
0	4.579	4.926	5.254	5.685	6.101	6.543	7.014	7.514	8.046	8.610	
IO	9.210	9.845	10.519	11.233	11.989	12.790	13.637	14.533	15.840	16.481	
20	17.539	18.655	19.832	21.074	22.383	23.763	25.217	26.747	28.558	30.052	
30	31.834	33.706	35.674	37.741	39.911	42.188	44.577	47.082	49.708	52.459	
40	55.341	58.36	61.52	64.82	68.28	71.90	75.67	79.62	83.74	88.05	
50	92.54		• • • • • • • •								

HOLBORN AND HENNING

Temp. ° C.	Pressure in mm. of mercury									
remp. C.	0	2	4	б	8					
50	92.3	101.9	112.3	123.6	135.9					
60	149.2	163.6	179.1	195.9	214.0					
70	233.5	254.5	277.I	301.3	327.2					
80	355.1	384.9	416.7	450.8	487.1					
90	525.8	567.1	611.0	657.7	707.3					
100	760.0	815.9	875.1	937.9	1004					
110	1074.5	1149	1227	1310	1397					
120	1489	1586	1687	1795	1907					
130	2026	2150	2280	2416	2560					
140	2709	2866	3030	3202	3381					
150	3569	3764	3968	4181	4402					
160	4633	4874	5124	5384	5655					
170	5937	6229	6533	6848	7175					
180	7514	7866	8230	8608	8999					
190	9404	9823	10256	10705	11168					
200	11647	12142	12653							

HOLBORN AND BAUMANN

Temp. ° F.	Pressure in lb. per sq. in.									
° F.	0	10	20	30	40	50	60	70	80	90
400 500 600 700	246.99 679.26 1539.9 3083.4	276.34 742.55 1657.8	308.33 810.31 1782.9	343.18 882.58 1915.3	380.92 959.85 2055.1	421.85 1042.2 2203.1	465.95 1130.2 2359.2	513.65 1223.7 2523.4 	565.08 1323.0 2697.1	620.18 1428.3 2882.3

Of the many formulas that have been proposed for the relation p = f(t) between the pressure and temperature of saturated steam, a number are simply modifications of the general equation

$$\log p = A + \frac{B}{T} + C \log T + DT + ET^2 + FT^3 + \cdots$$

The number of constants may be increased indefinitely by taking additional terms involving the higher powers of T. The signs of the coefficients B, C, D, E, etc., may be either positive or negative. Many of the proposed equations are simpler in form than the preceding, in particular Bertrand's equations, which have been extensively used.

However, such equations cannot be extended over any considerable temperature range without change of constants, and it is, of course, desirable that the entire range 32° F. to the critical temperature be represented by a single equation with the same constants.

After a number of trials the preceding equation was written in the form

$$\log p = A - \frac{B}{T} - C \log T - DT + ET^2 - \Delta$$
(A)

where

 $\Delta = 0.0002 \left[10 - 10 \left(\frac{t - 370}{100} \right)^2 + \left(\frac{t - 370}{100} \right)^4 \right].$

The addition of the term Δ amounts to the inclusion of terms in T^3 and T^4 in the general formula. The constants are

A = 10.5688080	$\log D = \overline{3.6088020}$
$\log B = 3.6881209$	$\log E = \overline{6.1463000}$
C = 0.0155	T = t + 459.6 ·

The agreement between the formula and the experimental values is shown in Fig. 1. The equation is used as a standard of reference and

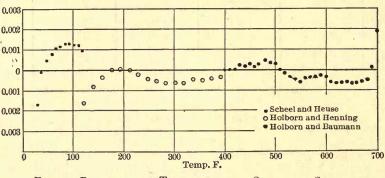


FIG. I. PRESSURE AND TEMPERATURE OF SATURATED STEAM.

ordinates represent the relative deviation of the experimental values of p (taken from the preceding tables) from the calculated values. From 200 to 700 degrees the agreement is remarkably good, the deviations for the most part being less than I in 2000. Below 200 degrees the discrepancies are relatively larger but absolutely very small. Thus the discrepancy at 122° F. between the last Scheel and Heuse point and the first Holborn and Henning point, which looks large in the figure, is only 0.24 mm. of mercury. The equation gives an intermediate value at this temperature. At 32 degrees the equation gives 4.587 mm., while the value generally accepted is 4.579 mm. of mercury. So far as pressures are concerned the discrepancy is unimportant. The significant fact is that the derivative $\frac{dp}{dT}$ is quite uncertain at low temperatures.

Volume of Superheated and Saturated Steam. Characteristic Equations. — Direct experiments on the specific volume of saturated and superheated steam have been made by Ramsay and Young,* by Battelli,† and by Knoblauch, Linde, and Klebe.‡ The experiments in the Munich laboratory were so superior in all respects to those of the other investigators, that the results have been generally accepted.

In conducting these experiments the volume of a predetermined weight of steam was kept constant and corresponding temperatures and pressures were observed. These observed values of p and t when plotted give a constant volume curve, or "isochor" on the pt-plane. It was found that the curves, within the limits of accuracy of the experiments, were straight lines. These lines were prolonged to intersect the saturation curve p = f(t), and the points of intersection gave, therefore, simultaneous values of p, v, and t, at the saturation limit.

For convenience in establishing a characteristic equation, Linde made use of the scheme of representation devised by Amagat. Values of the product pv were plotted as ordinates against values of p as abscissas. The experimental points were not taken for this purpose but rather the points determined by the intersection of the successive isochors by lines of constant temperature. In this way the points on the pv-p plane are separated into groups, each of which is associated with a particular temperature. In other words, curves through the successive sets of points are lines of constant temperature, or isotherms. Fig. 2 shows the points as thus determined.

Callendar § in his paper on the properties of gases and vapors had from theoretical considerations deduced the characteristic equation

$$v-b=\frac{BT}{p}-c_0\left(\frac{T_0}{T}\right)^{3.5},$$

in which b represents the minimum volume or co-volume of Hirn and van der Waals. This equation gives fair agreement with the experimental values at the lower temperatures, but it requires that the isotherms on the pv-p plane be straight lines, while the experimental points indicate that they should have appreciable curvature. In Linde's equation

$$v = \frac{BT}{p} - (\mathbf{I} + ap) \left[C \left(\frac{373}{T} \right)^3 - D \right]$$

the introduction of the term (1 + ap) provides for the requisite curvature. The resulting isotherms are parabolas.

While Linde's equation represents the experiments very closely, it is open to two serious objections. I. At 402° C. the "correction term" changes sign. 2. The equation cannot be reconciled with the accepted

- * Phil. Trans. Roy. Soc. of London, Vol. 183-A, p. 107 (1892).
- † Annales de Chimie et de Physique (7), Vol. 3, p. 408 (1894).
- ‡ Mitteilungen über Forschungsarbeit., Vol. 21, pp. 33-72 (1905).
- § Proc. of the Royal Soc. of London, Vol. 67 (1900), pp. 266-286.

specific heat measurements through the Clausius relation. In the attempt to remove these objections several equations have been developed and the one finally chosen has the form

$$v - c = \frac{BT}{p} - (I + 3 a p^{\frac{1}{2}}) \frac{m}{T^n}.$$
 (B)

That equation (B) satisfactorily represents the experiments is shown by Fig. 2, in which the points represent the experimental values transferred

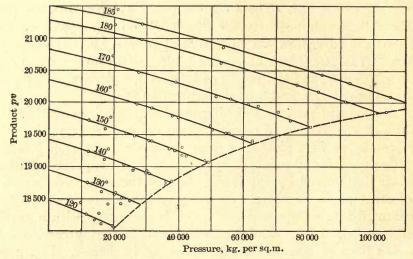


FIG. 2. ISOTHERMAL CURVES FROM EQ. (B). THE POINTS REPRESENT THE EXPERIMENTS OF KNOBLAUCH, LINDE, AND KLEBE.

to the pv-p plane, and the curves represent the equation with the various constant values of T indicated.

The term c in the equation is not strictly a constant. Following the suggestion of Callendar, this "co-volume" term is taken as the volume of the liquid corresponding to the pressure p. Hence when the equation is used to determine the volume of saturated steam the first member becomes v'' - v', that is, the increase of volume during vaporization.

The following are the constants.

Metric Units	English Units
(p in kg. per sq. m.)	(p in lb. per sq. in.)
$\log B = 1.67213$	$\log B = \bar{1}.77448$
$\log m = 8.59929$	$\log m = 10.82500$
$\log 3 a = \overline{3.28644}$	$\log 3 a = \bar{2}.71000$
n = 4	n = 4

Specific Heat of Superheated Steam. — The experiments on specific heat may be divided into groups as follows:

1. The early experiments of Regnault with steam at atmospheric pressure and at temperatures relatively close to saturation.

2. The experiments of Mallard and Le Chatelier, Langen, and Pier at very high temperatures. 3. The experiments of Holborn and Henning with steam at atmospheric pressure and a temperature range of $110^{\circ}-1400^{\circ}$ C.

4. Recent direct experiments with steam at various pressures. Of these, the experiments of Knoblauch and Jakob and of Knoblauch and Mollier performed in the Munich laboratory are specially noteworthy. Similar experiments have been made by Thomas.

Regnault's experiments made in 1862 * indicated a constant value of $c_p = 0.4805$. Davis † has recomputed Regnault's values and has deduced a somewhat smaller value, namely, $c_p = 0.4762$. For the pressure and range of temperature covered in the experiment, Regnault's value agrees well with the results of recent experiments.

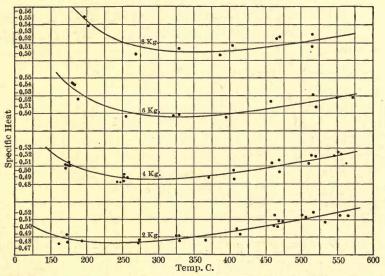


FIG. 3. CURVES OF SPECIFIC HEAT DEDUCED FROM EQ. (C). THE POINTS REPRESENT THE EXPERIMENTS OF KNOBLAUCH AND MOLLIER.

The high temperature experiments noted in group 2 have only an indirect bearing on the present discussion. The results obtained by the different investigators are discordant, but they all agree in showing a marked increase of specific heat with rising temperature. Thus Langen's experiments are represented by the linear relation

$c_p = 0.439 + 0.000239 t.$

The experiments of Holborn and Henning \ddagger form a link between the high temperature experiments of group 2 and the experiments of group 4. These measurements indicate values of c_p consistently lower than those obtained in the Munich experiments. While considerable weight must be attached to the Holborn and Henning experiments, it seems probable that preference must be given the Knoblauch and Mollier

- † Proc. Am. Acad., Vol. 45, p. 286 (1910).
- [‡] Annalen der Physik, Vol. 18, p. 739 (1905); Vol. 23, p. 809 (1907).

^{*} Mem. Inst. de France, Vol. 26, p. 167 (1862).

measurements. Callendar * has expressed the opinion that the Holborn and Henning values are too low by as much as 10 per cent.

Knoblauch and Jakob,[†] and subsequently Knoblauch and Mollier,[‡] made observations of the specific heat at four different pressures, 2, 4, 6, and 8 kg. per sq. cm. The latter experiments extended the temperature range of the former from $350^{\circ}-550^{\circ}$ C.

After reviewing all the experimental evidence one must be convinced that for the range of temperature covered, the Knoblauch and Mollier measurements should be accepted without modification. These are shown in Fig. 3. For convenience in the identification of the measurements associated with the four pressures employed, the points have been separated into four groups.

By a combination of the characteristic equation (B) and the Clausius relation a general equation for the specific heat c_p may be derived. From the equation

$$v - c = \frac{BT}{p} - (1 + 3 a p^{\frac{1}{2}}) \frac{m}{T^n},$$

the second derivative

$$\left(\frac{\partial^2 v}{\partial T^2}\right)_p = -\left(\mathbf{I} + 3 a p^{\frac{1}{2}}\right) \frac{mn\left(n+\mathbf{I}\right)}{T^{n+2}}$$

is obtained. Hence, from the Clausius relation,

$$\left(\frac{\partial c_p}{\partial p}\right)_T = -AT \frac{\partial^2 v}{\partial T^2} = \frac{Amn \ (n+1)}{T^{n+1}} \ (\mathbf{I} + 3 \ a p^{\frac{1}{2}}).$$

An integration with T constant gives an expression for c_p , namely

$$c_p = F(T) + \frac{Amn(n+1)}{T^{n+1}} p(1+2ap^{\frac{1}{2}}).$$

The arbitrary function F(T) is evidently c_{p_0} , that is, the specific heat at zero pressure. This was taken as a constant by Callendar. The experiments of Knoblauch and Mollier show that c_{p_0} cannot be constant, and this conclusion is confirmed by the high-temperature experiments of Langen and others. It has been suggested that a simple linear relation

$$c_{p_0} = \alpha + \beta T$$

may be assumed, but it is found that better results are obtained by a relation of the form

$$c_{p_0} = \alpha + \beta T + \frac{\gamma}{T^2}.$$

Writing the equation for c_p in the form

$$c_p = F(T) + f(p, T)$$

values of the term f(p, T) may be calculated for each of the Knoblauch and Mollier experiments, and by subtraction the corresponding values of

- * Report of British Assoc. Committee on Gaseous Explosions, pp. 31, 32 (1908).
- † Mitteil. über Forschungsarbeit, Vol. 35, p. 109.
- ‡ Zeit. des Ver. deutsch. Ing., Vol. 55, p. 665 (1911).

 $c_{p_0} = F(T)$ are found. From the curve through these points the constants α , β , and γ are obtained. The equation for c_p finally takes the form

$$c_p = \alpha + \beta T + \frac{\gamma}{T^2} + \frac{Amn (n+1)}{T^{n+1}} p (1 + 2 a p^{\frac{1}{2}}), \tag{C}$$

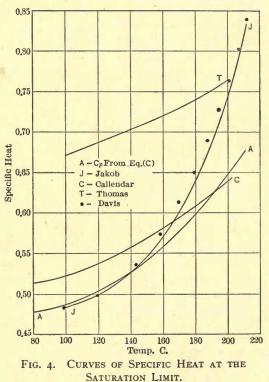
and the constants are

Metric	English
$\alpha=0.320$	0.320
$\beta = 0.0002268$	0.000126
$\gamma = 737 I$	23583

The constants a, m, and n are those of the characteristic equation.

If in Eq. (C) various constant values of p are substituted, the result is a family of c_p -curves, $c_p = f(t)$. A comparison of this system of c_p -curves with the systems established by Davis * and by Jakob † reveals certain essential differences. In Fig. 3 the curves for 2, 4, 6, and 8 kg.

per sq. cm. are shown superposed on the Knoblauch and Mollier points. It is evident that the agreement is satisfactory. Jakob's system represents the experiments equally well. In carrying the curves to the saturation curve both Davis and Jakob assume a sharp increase of c_p and the result is a system of values of c_p at saturation that appear to be unwarrantably high. Fig. 4 shows a comparison of the values of $(c_p)_{\text{sat.}}$ Curve A is deduced from Eq. (C), curve J represents Jakob's values, and the points represent the Davis values: curve T represents the experiments of Thomas, and curve Cthe values calculated by Callendar. Passing now to the other end of the temperature range,



values of c_p calculated from Eq. (C) agree fairly well with the experimental values of Langen, Pier, and Holborn at high temperatures 1000°– 2000° C. Jakob's values tend to run somewhat lower, and the Davis system of values still lower. Hence it may be asserted that the system derived from Eq. (C) (I) satisfies the Knoblauch and Mollier experi-

* Marks and Davis, Steam Tables and Diagrams, p. 97.

† Zeit. des Verein. deutsch Ing., Vol. 66, pp. 1981-3. 1912.

ments at least as well as the other systems, (2) gives more probable values of c_p at saturation, and (3) gives more trustworthy values of c_p at high temperatures.

Regnault's measurements of c_p at atmospheric pressure may be used as a rough check on corresponding values calculated from Eq. (C). The four series of experiments covered the temperature range 122.8°-231.1° C. The mean value of c_p given by Regnault was 0.4805, but this value is lowered to 0.4762 by Davis. All experiments were conducted at atmospheric pressure. The following table gives values of c_p at atmospheric pressure calculated from the equation, also the values assigned by Jakob for the slightly lower pressure, I kg. per sq. cm.

Temp. ° C.	100	150	200	250	300	350	400
From Eq. (C)	0.489	0.474	0.470	0.472	0.476	0.483	0.491
Jakob	0.482	0.473	0.471	0.473	0.477	0.483	0.490

SPECIFIC HEAT AT ATMOSPHERIC PRESSURE

The mean c_p deduced from the equation agrees very well with the recomputed value 0.4762.

Heat Content of Superheated and Saturated Steam.—From the two laws of thermodynamics the following general equations are derived.

$$dq = c_p dT - AT\left(\frac{\partial v}{\partial T}\right)_p dp,$$

$$di = c_p dT - A\left[T\left(\frac{\partial v}{\partial T}\right)_p - v\right]dp.$$

In the second equation we introduce the expression for c_p given by (C) and the expressions for $\left(\frac{\partial v}{\partial T}\right)_p$ and v obtained from the characteristic equation (B). The result of the substitutions is the exact differential equation

$$di = \left[\alpha + \beta T + \frac{\gamma}{T^2} + \frac{A m n (n+1)}{T^{n+1}} p (1 + 2 a p^{\frac{1}{2}})\right] dT$$
$$- A \left[\frac{m (n+1)}{T^n} (1 + 3 a p^{\frac{1}{2}}) - c\right] dp,$$

which upon integration gives the following equation for the heat content,

$$i = \alpha T + \frac{1}{2}\beta T^{2} - \frac{\gamma}{T} - \frac{Am(n+1)}{T^{n}}p(1+2ap^{\frac{1}{2}}) + Acp + i_{0}.$$
 (D)

The constant i_0 is determined as follows. Corresponding saturation values of p and t at some definite temperature, say 212 degrees, are substituted in the equation, which for this purpose may be written

$$i_{\text{sat}} = \phi(p, T) + i_0.$$

The function $\phi(p, T)$ is thus calculated, and i_{sat} being known, i_0 is found by subtraction. The value $i_0 = 948.54$ B.t.u. is thus determined. Since the constant c is taken as the liquid volume v', the term Acp is Apv', which is the small difference between the heat content i'' and the total heat q''. Hence, when applied at the saturation limit, equation (D) gives i'' and the same equation with the term Acp omitted gives q''.

At the saturation limit formula (D) may be checked with the Davis formula for heat content, which is surely valid within the range 212° -400° F. The comparison is shown graphically in Fig. 5. The points are

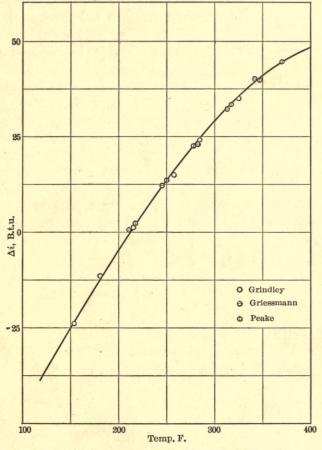


FIG. 5. COMPARISON OF i''-CURVE FROM EQ. (D) WITH POINTS DEDUCED FROM THE THROTTLING EXPERIMENTS.

those determined by Davis from the throttling experiments of Grindley, Griessmann, and Peake, and they are plotted from the data given in Table I of Davis' paper.* The ordinates represent the difference between the i at the given temperature t and the i at 212 degrees. The curve therefore represents the equation

$$i'' - i''_{212} = f(t),$$

where i'' is calculated from the formula and $i''_{212} = 1151.74$. The curve does not fit the points quite as well as the Davis second-degree curve,

* Proc. Am. Acad., Vol. 45, p. 276.

but the agreement is satisfactory and is probably well within the limits of accuracy of the throttling experiments. Beyond the last point the curve begins to bend downward rather sharply and thus diverge from the prolonged Davis curve. The maximum value of i'' is reached at about 440 degrees, while the Davis equation gives the maximum at about 550 degrees.

For the lower range 32-212 degrees, values of i'' calculated from equation (D) show excellent agreement with the available experimental values. In the following section on latent heat a comparison will be shown.

In the region of superheat formula (D) may be checked by the throttling experiments of Grindley, Griessmann, and Peake. According to the principles of thermodynamics a throttling process is also a constant-iprocess; that is, the points obtained in any particular throttling experiment when plotted on the *pt*-plane should lie on a curve i = const.When the curves are superposed on the experimental points good agreement is shown. (See Fig. 9, Bulletin No. 75, Eng. Exper. Station Univ. of Ill.)

Essentially the same test may be applied in another way. The slope of a curve i = const. on the Tp-plane is given by the derivative $\left(\frac{dT}{dp}\right)_{i = \text{const}}$ and this is the Joule-Thomson coefficient μ . From equation (D) the following expression for μ is readily obtained:

$$\mu = \frac{A}{c_p} \left[\frac{m (n+1)}{T^n} (\mathbf{I} + 3 a p^{\frac{1}{2}}) - c \right].$$

Davis has computed values of μ from the various throttling experiments, and these may be compared with values calculated from the preceding equation. Reasonably good agreement is shown. (See Bulletin No. 75, Fig. 15.)

Specific Heat of Water. Heat of Liquid. — For the temperature range $32^{\circ}-212^{\circ}$ F. (0°-100° C.) there are available five sets of experiments on the variation of the specific heat of water with the temperature. The curves that represent the results of these experiments are separable into two groups having quite different characteristics. Ludin * working with the method of mixtures obtained a curve which shows a minimum value of c' at about 20° C., then a rapid rise to a maximum, at 87° C. The curves obtained by Dieterici † and Barnes ‡ are similar in character; each shows a decrease of c' to a well defined minimum, then a steady rise without any suggestion of a maximum. The experiments of Regnault and Dieterici above 100° C. show a steady rise of the specific heat with the temperature; hence, if Ludin's curve be accepted,

^{*} Inaug. Diss. Zurich, 1895.

[†] Annalen der Physik (4), Vol. 16, pp. 593-620 (1905).

[‡] Phil. Trans., Vol. 199-A, pp. 55-148, 149-263 (1902).

the specific heat after reaching its maximum at 87 degrees must diminish and then increase again. It is difficult to account for such a variation on any rational basis, and the curves of Barnes and Dieterici should be preferred to Ludin's curve. Davis * attached no weight whatever to Ludin's values and adopted a curve lying between those of Barnes and Dieterici, with Barnes' values given double weight. However, the question is again complicated by the experiments of W. R. and W. E. Bousfield † which reproduce Ludin's results, although the method employed (electric heating with a vacuum-jacket calorimeter) was entirely different from Ludin's method of mixtures. Finally Callendar ‡ has undertaken to throw light on the subject by a set of experiments in which a new and very accurate method was employed. Callendar's paper contains an exhaustive and valuable discussion of the whole subject.

The methods used by Barnes and Callendar, respectively, have the marked advantage of being continuous. In the Barnes experiments a steady current of water was heated through a small range of temperature by an electric current, and the result obtained was therefore the actual specific heat at a pre-determined temperature rather than the mean specific heat over a considerable range. Callendar used a continuousmixture method in which two steady currents of water at different temperatures were passed through a system of concentric tubes which constituted a heat exchanger. The continuous-flow methods have obvious advantages over other methods. The water equivalent of the calorimeter is not required, and various corrections that involve uncertain measurements are eliminated.

The results of Callendar's experiments by the continuous-mixture method completely verify the earlier experiments of Barnes by the continuous-electric method. As these two independent methods are much superior to the other methods used and give identical results, there can be no question that these results should be accepted.

Taking the specific heat of water at 20° C. as unity, Callendar gives the following equation for the variation of the specific heat with temperature

$$c' = 0.98536 + \frac{0.504}{t+20} + 0.0084 \frac{t}{100} + 0.0090 \left(\frac{t}{100}\right)^2.$$

From the specific heat c' the heat content i' of the liquid is derived by the relation

$$i'=\int c'\,dt.$$

After changing from C. to F. temperatures and applying a factor to

- * Steam Tables and Diagrams, p. 89.
- † Phil. Trans., Vol. 211-A, pp. 199–251 (1911).
- ‡ Phil. Trans., Vol. 212-A, pp. 1-32 (1913).

reduce from the 20-degree calorie to the mean calorie, the equation for i' becomes

$$i' = 0.9838 t + 2.0856 \log (t+4) + 0.233 \left(\frac{t-32}{100}\right)^2 + 0.09245 \left(\frac{t-32}{100}\right)^3 - 34.73.$$

For temperatures above 212 degrees, two sets of experiments are available, Regnault's and Dieterici's, neither of which can be accepted as thoroughly reliable. Regnault's results have been recomputed by

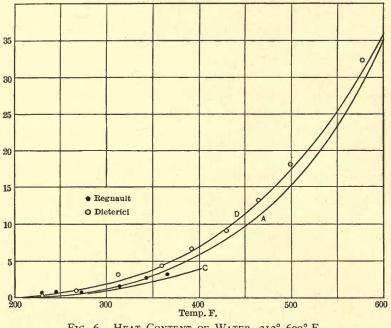


FIG. 6. HEAT CONTENT OF WATER, 212°-600° F.

various investigators. In Fig. 6, six mean values deduced from Callendar's computation are shown. The ordinates in this figure represent values of

$$\Delta i' = i' - (t - 32),$$

that is, the excess of the heat content over t - 32, the temperature range. Abscissas are temperatures F. In the same figure are shown the points obtained by Dieterici. The curve D represents the equation adopted by Dieterici and curve C represents Callendar's equation extended beyond 212 degrees.

Callendar questions the accuracy of Dieterici's experiments and gives preference to his equation extrapolated through the range 100°-200° C. It is probable that Dieterici's points are considerably in error, as the method of the experiments involved large corrections, and it is also probable that Regnault's points are no more reliable. However, there

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seems to be no valid reason for choosing a curve, like curve C, lying below both sets of points.

Latent Heat of Saturated Steam. - The Clapeyron relation

$$r = A \left(v^{\prime\prime} - v^{\prime} \right) T \frac{dp}{dT}$$

gives a means of calculating the latent heat. It is convenient to write the equation in the form

$$r = A p \left(v^{\prime \prime} - v^{\prime} \right) \frac{T}{p} \frac{dp}{dT}$$

in which the second member is made up of two factors. From the characteristic equation, the first is expressed by

$$Ap(v'' - v') = ABT - Ap(I + 3ap^{\frac{1}{2}})\frac{m}{T^{n}}.$$

Upon differentiating equation (A) connecting the pressure and temperature of saturated steam, namely

$$\log p = A - \frac{B}{T} - C \log T - DT + ET^2 - \Delta,$$

the second factor is obtained in the form

$$\frac{T}{p}\frac{dp}{dT} = 2.3026 \left[\frac{B}{T} - DT + 2ET^2 - T\frac{d\Delta}{dt}\right] - C.$$

For the range 32-212 degrees, within which the heat of the liquid is given accurately by the experiments of Barnes and Callendar, a second independent method of calculating the latent heat is available. Saturation values of i are calculated from the formula for heat content and from these are subtracted the corresponding known values of the heat of the liquid. The difference gives, of course, the latent heat. The following table gives values of r obtained by the two methods.

LATENT HEAT, 32°-212° F.

Temp. ° F.	32	40	80	120	160	200	212
 i" from Eq. (D) i' Barnes & Callendar by subtraction by Clapeyron relation 	0 1072.98	1076.79 8.05 1068.74 1068.12	1095.45 48.05 1047.40 1046.97	1113.49 87.94 1025.55 1025.27	1130.79 127.87 1002.92 1002.77	1147.09 167.94 979.15 979.12	1151.74 180.00 971.74 971.74

Above 212 degrees the heat of the liquid is so uncertain that the method of determining r by subtraction is hardly justified. Hence values of r are calculated from the Clapeyron relation, and subtracted from corresponding values of i''. The result is a set of values of i' that may be compared with the Regnault and Dieterici experimental values. The following table exhibits the details of the calculation.

Temp. ° F.	212	240	280	320	360	400	440	480	520	560	600
<i>i</i> " from Eq. (D) r from Clap. rel <i>i</i> " by subtraction	971.74		1175.33 926.57 248.76	896.65	863.60	826.83	785.78	739.78	688.02		

LATENT HEAT AND HEAT OF LIQUID, 212°-600° F.

Referring to the first of the preceding tables, the close agreement of the two sets of values of r may be noted. The greatest difference, which occurs at 32-40 degrees, is about 6 in 10,000. This agreement is a decisive test of the validity of the analysis. The two sets of numbers are obtained independently, one from the characteristic equation, the other from the heat-content equation, and the agreement between the two shows the satisfaction of the Clapeyron relation. Of the two sets the one obtained from the heat-content equation should be chosen, rather than the set derived by means of the Clapeyron relation. The reason for this lies in the slight uncertainty in the exact value of the derivative $\frac{dp}{dt}$ at low temperatures. It was shown in connection with Fig. I that the course of the Scheel and Heuse points indicates that the true value of this derivative at 32 degrees is probably slightly greater than the value obtained from the formula. The slightly lower values of r calculated from the Clapeyron relation in the range of 32-80 degrees may be

ascribed, therefore, to a small error in the derivative. For the range $212^{\circ}-600^{\circ}$ F. the important result is the set of values of *i'*, heat of the liquid. In Fig. 6 curve *A* represents the new set of values for the range $212^{\circ}-600^{\circ}$ F. It lies between Dieterici's curve and Callendar's extrapolated curve and represents very well the Regnault experiments as interpreted by Callendar. Above 400 degrees the curve runs from I to 3 B.t.u. lower than the Dieterici points, a deviation of 0.2 to 0.6 per cent. Dieterici admits a possible error of 0.3 to 0.5 per cent in the experiments to determine the mean specific heat c_m and a further error in the reduction of c_m to the actual specific heat. It is likely that a possible error of at least I per cent may be attached to Dieterici's points; hence if the points are too high, as is indicated by Regnault's experiments and Callendar's extrapolated formula, the curve probably represents the true values fairly well.

The values of the latent heat r given in the preceding table may be compared with direct experiments within the range 32-212 degrees. For this purpose four sets of experiments are available, those of Dieterici,* Griffiths,† Smith,‡ and Henning.§ The following table gives the results of these experiments expressed in a common unit, the mean B.t.u.

- * Annalen der Physik, Vol. 37, pp. 494-508 (1889).
- + Phil. Trans., Vol. 186-A, pp. 261-341 (1895).
- ‡ Phys. Review, Vol. 25, pp. 145-170 (1907).
- § Annalen der Physik (4), Vol. 21, pp. 849-878 (1906).

THE THERMAL PROPERTIES OF STEAM

	Temp. ° F.	Latent heat B.t.u.
Dieterici	32	1072.9
Griffiths	86 104.3	1045.1 1034.1
Smith	57.1 70.1 82.5 103.6	1061.6 1054.5 1047.6 1035.0
Henning	86.2 120.5 148.7 171.2 192.7 213.1	1043.2 1026.2 1008.0 995.4 983.3 969.8

EXPERIMENTAL DETERMINATIONS OF LATENT HEAT

In Fig. 7 these results are shown by the plotted points and the curve represents the variation of r according to equation (D). The agreement is satisfactory, though Smith's points would indicate that the calculated values may be slightly low.

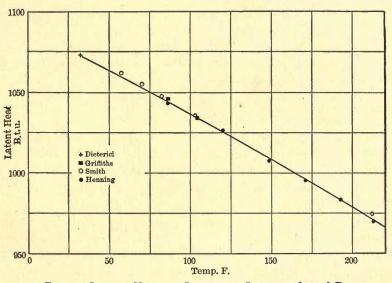


FIG. 7. LATENT HEAT OF SATURATED STEAM, 32°-212° F.

Special interest attaches to the value of r at 212° F. For years Regnault's number 966 B.t.u. was universally accepted. Callendar in his 1900 paper gave the value 972, which is almost precisely the value that is now considered most probable. Davis made use of the experiments of Henning and Joly at 212° and set the value of r at 970.4 B.t.u. Smith's recent experiments * on slow vaporization of water under atmospheric pressure indicate a value higher than any yet assumed. Heck uses the value 971.2, Mollier uses 971.4. The present investi-

* Physical Review, Vol. 33, p. 183 (1911).

gation leads to the number 971.7, which is probably quite close to the truth, though if anything slightly low.

Entropy. — An expression for the entropy of superheated steam is readily obtained from the fundamental equation,

$$dq = c_p \, dT - A \, T \left(\frac{\partial v}{\partial T}\right)_p dp.$$

Dividing by T,

$$ds = \frac{dq}{T} = c_p \frac{dT}{T} - A\left(\frac{\partial v}{\partial T}\right)_p dp.$$

From the characteristic equation

$$\left(\frac{\partial v}{\partial T}\right)_p = \frac{B}{p} + \frac{mn}{T^{n+1}} (\mathbf{I} + 3 a p^{\frac{1}{2}}).$$

Introducing this and the expression for c_p in the preceding equation, the result is

$$ds = \left[\frac{\alpha}{T} + \beta + \frac{\gamma}{T^3} + \frac{Amn\left(n+1\right)}{T^{n+2}}p\left(1 + 2ap^{\frac{1}{2}}\right)\right]dT - \frac{AB}{p}dp$$
$$-\frac{Amn}{T^{n+1}}\left(1 + 3ap^{\frac{1}{2}}\right)dp.$$

The integration of this exact differential equation gives the following equation for the entropy

$$s = \alpha \log_e T + \beta T - \frac{1}{2} \frac{\gamma}{T^2} - AB \log_e p - \frac{Amn}{T^{n+1}} p \left(1 + 2 a p^{\frac{1}{2}} \right) + s_0.$$
(E)

The constant s_0 is found by applying the equation at the saturation limit. The value thus determined is $s_0 = -0.08108$.

For the range $32^{\circ}-212^{\circ}$ F., within which Callendar's formula for the heat of the liquid is surely applicable, there are available two independent methods of calculating the entropy of saturated steam. I. The entropy of the liquid s' is determined by the integration of Callendar's equation for i' and the entropy of vaporization $\frac{r}{T}$ is added. 2. Corresponding saturation values of p and T are substituted directly in the preceding formula for s. The two methods give substantially identical results.

Above 212° F. the entropy s'' of saturated steam is calculated from formula (E) and the entropy of the liquid s' is obtained by the relation

$$s' = s'' - \frac{r}{T}$$

Integration of Callendar's i'-equation gives the following formula for s':

 $s' = 2.3623 \log T + 0.0045775 \log (t+4) - 0.00022609 T + 0.00000013867 T^2 - 6.28787.$

Intrinsic Energy. — From the defining equation

$$i = A (u + pv)$$

the energy u in thermal units is readily obtained by subtraction; thus u = i - A pv.

Combination of equations (B) and (D) gives therefore the following explicit expression

$$u = (\alpha - AB) T + \frac{1}{2}\beta T^2 - \frac{\gamma}{T} - \frac{Amnp}{T^n} \left(I + \frac{2n - I}{n} ap^{\frac{1}{2}} \right) + i_0.$$
 (F)

Computation of the Steam Tables. — The tabulated properties of superheated steam — volume, entropy, and heat content — are calculated directly from formulas (B), (E), and (D), respectively. The same formulas with corresponding saturation values of p and t inserted give, respectively, the volume, entropy, and heat content of saturated steam. The pressures of saturated steam are calculated from formula (A). Within the range $32^{\circ}-212^{\circ}$ F. the heat content i' of the liquid is obtained from Callendar's formula, and the latent heat r is then found by subtraction, according to the relation r = i'' - i'. For temperatures above 212° F. the latent heat is calculated from the Clapeyron relation

$$r = \psi \frac{T}{p} \frac{dp}{dT},$$

$$\psi = A \left[BT - p \left(\mathbf{I} + 3 a p^{\frac{1}{2}} \right) \frac{m}{T^n} \right].$$

in which

Values of i' are then obtained by subtraction, since i' = i'' - r. The internal latent heat ρ is found from the relation

 $\rho = r - \psi$

and the internal energy u'' from the relation u'' = i'' - A pv''.

The entropy of the saturated steam s'' having been obtained from the general formula (E), the entropy of the liquid s' is found by subtracting

$$\frac{r}{T}$$
, thus $s' = s'' - \frac{r}{T}$.

In the process of computation the formulas were used to give values of the required magnitudes for temperatures (or pressures) so selected as to give a suitable constant interval, and the intervening values were obtained by interpolation.

Units and Constants. — In these tables the mean B.t.u. is taken as the thermal unit. This is defined as $\frac{1}{180}$ th of the heat required to raise the temperature of a pound of water from 32° to 212° F. The corresponding mean calorie is by Griffiths identified with the $17\frac{1}{2}$ -degree calorie and by Barnes with the 16-degree calorie.

PROPERTIES OF STEAM AND AMMONIA

The various determinations of the mechanical equivalent seem to justify the value established by Griffiths in 1893, namely,

I mean calorie = 4.184 joules I mean B.t.u. = 777.64 standard ft. lb.

This value has been used.

Various determinations of the absolute temperature of the ice-point have been made. These indicate a value of 273.1° C. or about 459.6° F. The investigation of Rose-Innes (1908) points to the value 459.64, but it does not appear that the degree of accuracy indicated by the fifth figure is at present justified. The value 459.6 has been taken, and the relation between absolute and ordinary temperatures is therefore given by

$$T = t + 459.6.$$

THERMAL PROPERTIES OF AMMONIA

Experimental Data. — Experiments on the properties of ammonia are by no means as complete or as concordant as the experiments on water vapor. Hence any formulation for ammonia must be regarded as merely tentative and subject to revision as further experimental evidence becomes available.

Experiments on the pressure-temperature relation for saturated ammonia vapor have been made by Regnault, Faraday, Blümcke, Brill, and Davies.*

Data on the specific volume of liquid ammonia are furnished by the experiments of Lange, D'Andréeff, and Dieterici, and on the specific volume of the saturated vapor by the experiments of Dieterici. The experiments of Perman, Guye, and Leduc furnish a few isolated values of the volume of the superheated vapor.

Measurements of the latent heat of vaporization have been made by Regnault, Franklin and Kraus, Von Strombeck, Estreicher and Schnerr, Denton and Jacobus. The values obtained are very discordant.

Fairly trustworthy values of the heat content of liquid ammonia throughout the range 50° -160° F. are given by the experiments of Dieterici and Drewes.

Finally, a few values of the specific heat of superheated ammonia are given by Keutel, Voller, Wiedemann, Regnault, and Nernst.

Pressure-Temperature Relation. — The law of <u>Ramsay and Young</u> affords the most satisfactory method of calculating corresponding temperatures and pressures of saturated ammonia vapor. This law is expressed by the equation

$$R = R' + k \left(T - T'\right),$$

in which R and R' denote the ratio of the saturation temperatures of two different substances at two different pressures, and T, T' denote the absolute temperatures of one of the vapors corresponding respectively to the pressures. Let water and ammonia be the two substances and let T_w and T_a denote respectively the absolute temperatures of saturated steam and ammonia at the *same* pressure; then the law is expressed by the simple equation

$$\frac{\mathbf{I}}{T_a} = c \frac{\mathbf{I}}{T_w} + k.$$

* For an exhaustive bibliography of the investigations of ammonia, see Bulletin No. 66, University of Illinois Experiment Station, pp. 92–94.

PROPERTIES OF STEAM AND AMMONIA

Accurate values of T_w are given in the steam tables; hence, if the constants c and k are known, values of T_a are readily calculated. Using the graphical method suggested by Moss, Mosher plotted the available experimental values and established the following values of the constants

$$c = 1.70343$$
 $k = -0.0002242.$

Values of T_a thus obtained represent with satisfactory accuracy the most reliable of the experiments.

Specific Volume of Liquid Ammonia. — For the temperature range -60° to 160° F., Mosher, following Avenarius, assumed an equation of the form

$$v' = a - b \log (t_k - t),$$

to express the relation between the liquid volume and the temperature. In this equation t_k denotes the critical temperature of ammonia, which is taken as 273.2° F. With the constants a = 0.06335, b = 0.016, the equation represents satisfactorily the experiments of Dieterici, Lange, and D'Andréeff. Above 160° F. the liquid volumes were determined by the law of the "straight diameter."

Specific Volume of Saturated Ammonia Vapor. Latent Heat. — By a combination of the equation expressing Ramsay and Young's law with the Clapeyron equation, the following relation is obtained:

$$\frac{(v^{\prime\prime}-v^{\prime})_w}{r_w} = \frac{(v^{\prime\prime}-v^{\prime})_a}{r_a} \left[\mathbf{I} + \frac{k}{c} T_w \right] \cdot$$

The subscript w refers to water, the subscript a to ammonia. The ratio $\frac{k}{c}$ is -0.0001316. At any given pressure the term in the first member of this equation and the bracketed term in the second member may be found from the known properties of steam. Hence the quotient $\frac{v''-v'}{r}$ for ammonia may be calculated.

With reference to the numerator v'' - v', satisfactory values of v' are available and Dieterici's experiments give acceptable values of v'' within the range $30^{\circ}-222^{\circ}$ F. Hence tentative values of the latent heat r may be calculated and compared with the experimental values. Following this procedure, Mosher deduced the following formula:

$$\log r = 1.856064 + 0.37 \log (273.2 - t).$$

The curve r = f(t) representing this equation fits the discordant experimental points at least as well as any of the other proposed curves and the form of the equation is such as to justify extrapolation to very low temperatures.

With this equation for r available the process just described may be reversed, and values of v'' - v' may be calculated. Values of v'' up to r 160° F. were thus obtained. For temperatures above 160° F., values of v'' were obtained from the law of the straight diameter.

Properties of Superheated Ammonia. — The characteristic equation for superheated ammonia was given the form

$$v+c=\frac{BT}{p}-\frac{m}{T^n}$$

and the following constants were chosen:

$$B = 0.6321 (p \text{ in lb. per sq. in.})$$

log m = 12.90000
c = 0.10
n = 5

With these constants the equation represents satisfactorily the experimental volumes of the superheated vapor, and at saturation it gives values that agree closely with values of v'' obtained from the Clapeyron relation.

With the analytical methods that were used in the case of superheated steam the following equations are derived:

$$c_{p} = \alpha + \beta T + \frac{Amn(n+1)}{T^{n+1}}p,$$

$$i = \alpha T + \frac{1}{2}\beta T^{2} - A(n+1)p\frac{m}{T^{n}} - Acp + i_{0},$$

$$s = \alpha \log_{e} T + \beta T - AB \log_{e} p - Anp\frac{m}{T^{n+1}} + s_{0}.$$

The constants must be adjusted to meet two conditions. I. Values of c_p calculated from the first equation should agree with available experimental values. 2. Values of i' obtained from the equation for i(by subtraction of r from i'') should agree with the experimental values found by Dieterici and Drewes. The following values were finally chosen

$\alpha = 0.382$	$i_0 = 358.0$
$\beta = 0.000174$	$s_0 = -0.8266$

THE TABLES AND DIAGRAMS

Explanation of the Tables. — Tables I and 2 give the properties of saturated steam and Table 3 the properties of superheated steam. Tables 7, 8, and 9 give similarly the properties of saturated and superheated ammonia.

In Table 2 the temperature is taken as the argument and the tabular values were calculated directly from the general equations. The values in Table I, in which the pressure is the argument, were obtained by interpolation from Table 2. Below atmospheric pressure, the pressures in Table I are given in inches of mercury, and from 0.2 to 5 inches the interval is taken as 0.1 inch. Hence the properties associated with the low pressures involved in modern condenser practice may be easily determined.

The upper limit of the range of temperature for which the general equations may be considered valid is apparently about 560° F. However, tentative values of the various properties between 560 degrees and the critical temperature are given in Table 2. These were obtained by certain empirical methods that are described in the original paper. (See Bulletin No. 75, Eng'g Exper. Station, U. of Ill., pp. 61–64.) While experimental evidence is lacking for temperatures above 400° F., it is believed that the values between 400 and 560 degrees are fairly accurate. Those for temperatures above 560 degrees are not so worthy of confidence.

In the case of superheated steam, the properties are functions of both pressure and temperature. Table 3 is so arranged that the properties for eight successive pressures appear on each page. The temperature rather than the degree of superheat is taken as the variable. Tendegree intervals are used up to about 200 degrees of superheat and 50-degree intervals beyond. Under each pressure is given in parentheses the corresponding saturation temperature so that the degree of superheat if desired may be readily obtained by subtraction.

Table 4 gives corresponding temperatures and pressures of saturated steam near atmospheric pressure. In other words, the table gives boiling points for various barometer indications.

Table 5 gives the important thermal properties of water. At the lower temperatures the values of density and volume were taken from the most reliable existing data. The specific heat throughout and the other properties at higher temperatures were recalculated.

Table 6 gives the more important data of mixtures of air and saturated vapor of water. It will be found useful in the solution of prob-

THE TABLES AND DIAGRAMS

lems that involve hygrometric conditions. As is customary in present practice, tabular values are based on the weight rather than the volume of the dry air. The three columns of thermal magnitudes may require some explanation. The first of these gives the heat content of I pound of dry air above 0° F. The values were obtained from Swann's expression for the specific heat of air, namely,

$c_p = 0.24112 + 0.000009 t.$

The next column gives the heat required to vaporize the weight of water required to saturate the air at the given temperature. Below 32 degrees the heat of sublimation rather than the latent heat of vaporization is used. The third of the three columns gives the heat content of the mixture, and the values are obtained by adding the corresponding values in the other columns. Strictly speaking, the term "heat content" is improper in this connection, because the heat of the liquid is not included. The heat content of a non-saturated mixture with known relative humidity may be found with sufficient accuracy from the first two of these three columns. Multiply the tabular value in the second column by the relative humidity and add the product to the value in the first column. Thus with a temperature of 80° F. and relative humidity of 0.70, the heat content of I pound of air with the contained water vapor is

$$19.32 + 0.70 \times 23.31 = 35.64$$
 B.t.u.

Tables 7, 8, 9, and 10 for ammonia correspond to Tables 1, 2, 3, and 5 for water vapor, and require no special comment.

The Diagrams. — For the expeditious solution of many engineering problems in which extreme accuracy is not required the tables of properties may be replaced by certain graphical charts. It is perhaps true that the value of such graphical aids is generally overestimated, and that most problems can be worked from the tables with the expenditure of very little more time and effort and with much greater accuracy.

While any two of the variables p, v, t, u, s, i may be taken as the ordinate and abscissa, respectively, the Mollier chart, in which i and s are so used, has important advantages.

Two Mollier diagrams, one for steam and one for ammonia, accompany these tables. These differ in one essential respect. In the case of steam the properties of the medium near the liquid state are rarely needed, hence the chart includes only the properties near the saturation limit and in the region of superheat. In the case of ammonia, on the other hand, the liquid curve must be included on account of the phenomena connected with the free expansion of the fluid through the expansion valve. Therefore the ammonia diagram has two parts, one showing the properties in the region of superheat and near the saturation curve, the other the properties near the liquid curve.

Each diagram gives several families of curves. Lines parallel to the coördinate axes give, respectively, values of heat content and entropy as read on the scales along the margin. There is a family of constantpressure curves, in the superheat region a family of constant-temperature curves, and in the mixture region a family of constant-quality curves. Any point on the diagram represents a definite state of the fluid. If the point lies in the region of superheat the heat content, entropy, pressure, and temperature are read off directly; if it lies in the mixture region the quality is given but the temperature must be obtained from the pressure. Two important properties, the volume and energy, are not given by the diagram as constructed. While it is possible to construct constant-volume and constant-energy curves, the inclusion of so many families of curves on a single diagram would lead to confusion. Furthermore, at low pressures the volume changes so rapidly that it is impossible to read volumes with any degree of accuracy. The volume and energy may, however, be easily obtained from the other properties. Thus to find the volume: If the point lies in the region of superheat read the pressure and temperature from the diagram and simply look up the corresponding value of v in Table 3; if it lies in the mixture region read the pressure and quality from the diagram, look up the value of the saturation volume v'' for the pressure, and multiply this by the quality. Having the specific volume, the energy is readily obtained from the relation

$$u = i - 144 A pv$$

= $i - 0.1852 pv.$ (log 0.1852 = $\overline{1.26758.}$)

If the pressure is given in inches of mercury the formula becomes

$$u = i - 0.091 \text{ pv.}$$

Illustrative Examples. — The following examples illustrate some of the more important uses of the diagrams and tables.

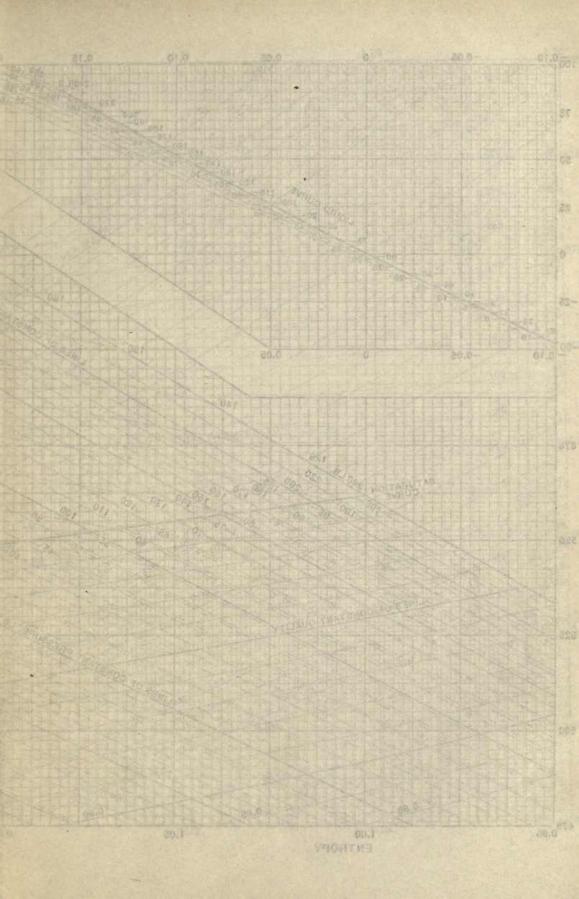
Example 1.* Find the properties of steam at a pressure of 120 lb. per sq. in. and a temperature of 412° F.

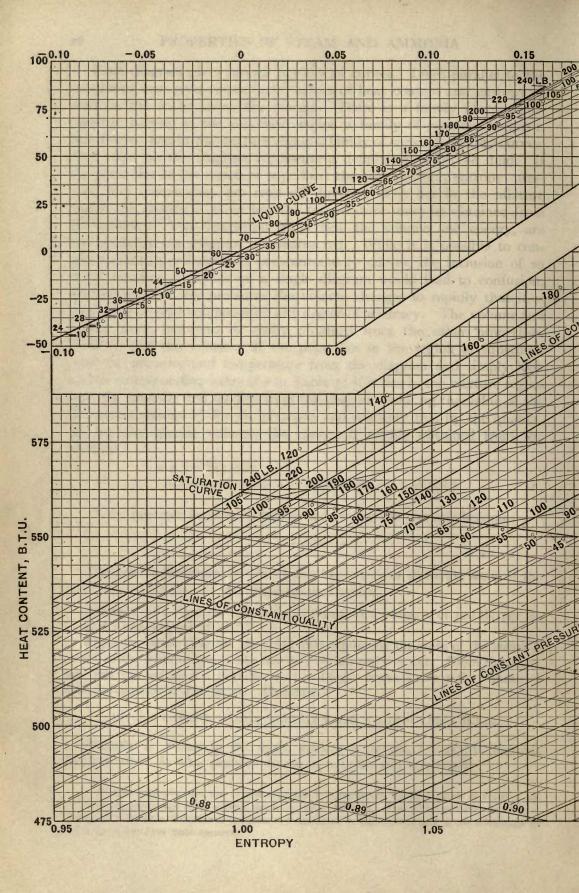
From the steam diagram the point that represents the state of the steam is found at the intersection of the curves p = 120 and t = 412. From the scales are read the values i = 1231 B.t.u., s = 1.637. From Table 3 the volume of 1 lb. is found to be 4.16 cu. ft. Therefore

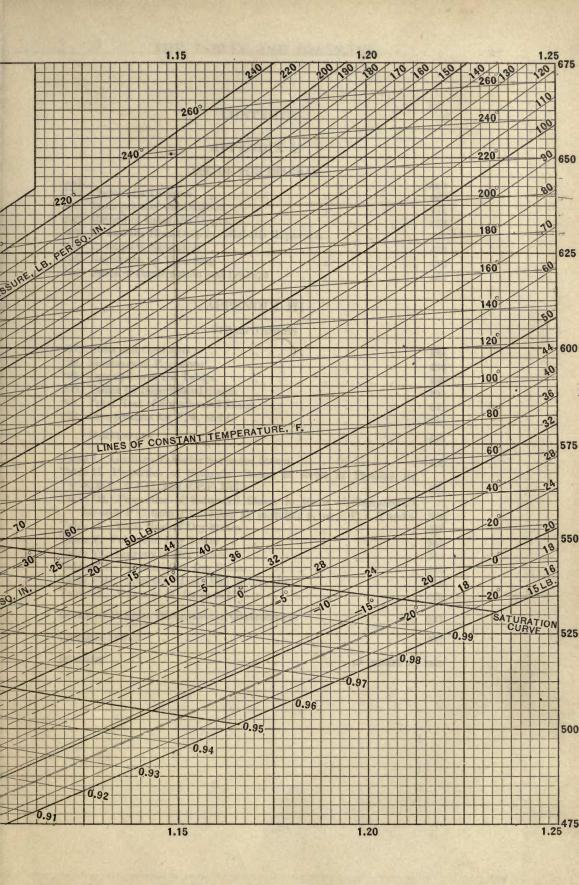
$$u = i - 0.1852 pv = 1232 - 0.1852 \times 120 \times 4.16 = 1138.5$$
 B.t.u.

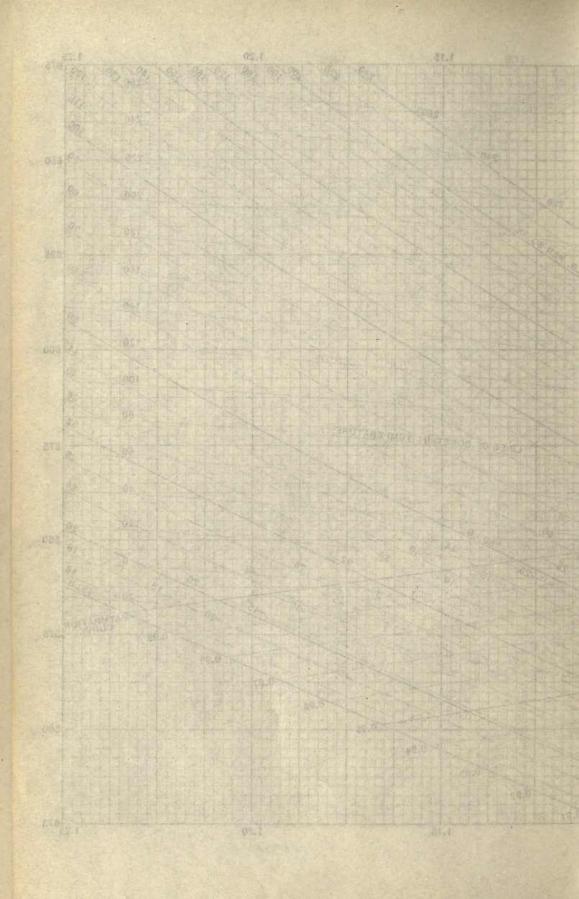
Example 2. Steam in the initial state p = 120 lb., $t = 412^{\circ}$ F. expands adiabatically. At what pressure does it become dry and saturated?

^{*} In this example, the use of the diagram is superfluous, for the values of i and s are obtained as easily and with greater accuracy from Table 3. When the problem involves a change of state or a comparison between two states, as in Examples 2 and 3, the advantage of the diagram becomes more apparent.









THE TABLES AND DIAGRAMS

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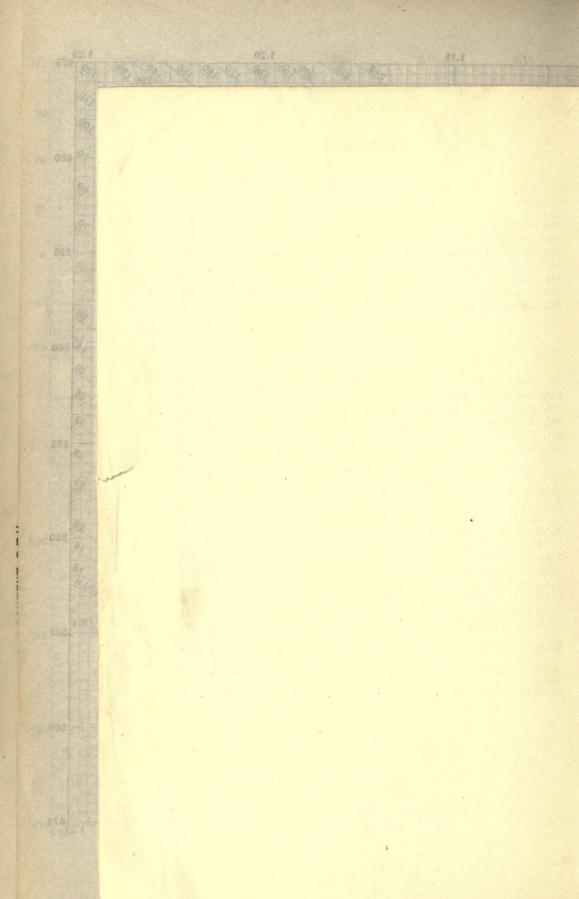
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DIGE



In adiabatic expansion the entropy remains constant; hence the second state is given by the intersection of the line s = 1.637 with the saturation curve. The pressure indicated by this point is 68 lb. per sq. in.

Example 3. Steam in the same initial state as in Examples I and 2 expands adiabatically to a pressure of 2.5 in. of mercury. Find the volume, heat content, energy, and quality in the final state.

The entropy in the initial state is 1.637; hence find the intersection of the line s = 1.637 with the curve p = 2.5 in. of Hg. This point gives the values x = 0.822, i = 925 B.t.u. From Table I, v'' for 2.5 in. of Hg is 247.7 cu. ft., hence the volume of the mixture with quality of 0.822 is $247.7 \times 0.822 = 203.6$ cu. ft. The energy is $925 - 0.091 \times 2.5 \times 203.6 = 878.7$ B.t.u.

Example 4. With the data of Example 3, find the work done by I pound of steam in expanding.

When steam expands adiabatically the work done is equal to the decrease of energy. $u_1 = 1138.5$ (Ex. 1) and $u_2 = 878.7$; hence the work is

$$w_{12} = 1138.5 - 878.7 = 259.8$$
 B.t.u. = 202,030 ft. lb.

Example 5. Steam having an initial pressure of 180 lb. per sq. in. and a temperature of 550° F. is assumed to pass through an ideal Rankine cycle. Find the heat changed into work (a) when the steam is exhausted at a pressure of 16 lb.; (b) when it is exhausted at a pressure of 3 in. of Hg.

In the Rankine cycle the heat changed into work is given by the decrease of the heat content during adiabatic expansion. From the diagram, $i_1 = 1297.4$ B.t.u. Following the line of constant entropy to p = 16 lb., i_2 is found to be 1094 B.t.u., and continuing to p = 3 in. of Hg, $i_2 = 950$ B.t.u. Hence the heat turned into work is for the first case 1297.4 - 1094 = 203.4 B.t.u., and for the second case 1297.4 - 950 = 347.4 B.t.u.

Example 6. Steam at a pressure of 200 lb. per sq. in. and quality 0.97 is throttled in passing through a reducing valve. At what pressure will the steam be dry and saturated after passing through the valve?

In a throttling process the heat content i remains constant. Hence a line i = const. through the initial point intersects the saturation curve in a point that gives the required final state. The pressure is found to be 44 lb. per sq. in.

Example 7. In a throttling calorimeter the observed pressure is 17 lb. and the temperature 255° F. If the initial pressure of the steam was 160 lb., what was the initial quality?

A line of constant *i* through the point p = 17 lb., $t = 255^{\circ}$ cuts the line p = 160 lb. in a point at which the quality is 0.973.

Example 8. Steam at a pressure of 200 lb. per sq. in. and a temperature of 450° F. expands in a nozzle to a pressure of 60 lb. per sq. in. Find the velocity attained by the jet (a) when the flow is assumed to be frictionless; (b) when, due to friction, there is a loss of 12 per cent in the energy of the jet.

If the expansion in a nozzle is adiabatic and frictionless the fundamental equation of flow is $\frac{w^2}{2g} = J(i_1 - i_2)$, or $w = 223.7 \sqrt{i_1 - i_2}$. The effect of friction is to decrease the jet energy, and if this decrease is y per cent of the friction-less jet energy, the velocity in this case is given by $w = 223.7 \sqrt{(i_1 - i_2)(1 - y)}$.

From the diagram the initial heat content is 1240, and the final heat content

after adiabatic expansion to 60 lb. is found to be 1139 B.t.u. Hence, if the flow is frictionless,

$$w = 223.7 \sqrt{1240 - 1139} = 2250$$
 ft. per sec., approx.

With 12 per cent loss of energy, the velocity is

 $w = 223.7 \sqrt{(1240 - 1139) \times 0.88} = 2110$ ft. per sec.

Example 9. In case (b) of Example 8, find the quality and specific volume of the steam in the final state, that is, after expansion to 60 lb.

In the frictionless case the change in i is 1240 - 1139 = 101 B.t.u. With friction this is decreased 12 per cent, leaving $101 \times 0.88 = 88.9$ B.t.u. Hence in the second state i = 1240 - 88.9 = 1151.1 B.t.u., and the pressure is 60 lb. From the diagram the corresponding quality is 0.97, nearly. For 60 lb., v'' = 7.18 cu. ft., hence the volume per pound is $7.18 \times 0.97 = 6.96$ cu. ft.

Example 10. Determine the area of the end section of the nozzle for a discharge of 75 lb. of steam per minute, using the results obtained in Examples 8 and 9.

In the equation of continuity, Fw = Mv, M is given as $\frac{75}{60}$ lb. per sec., w = 2110, v = 6.96. Hence the area F is

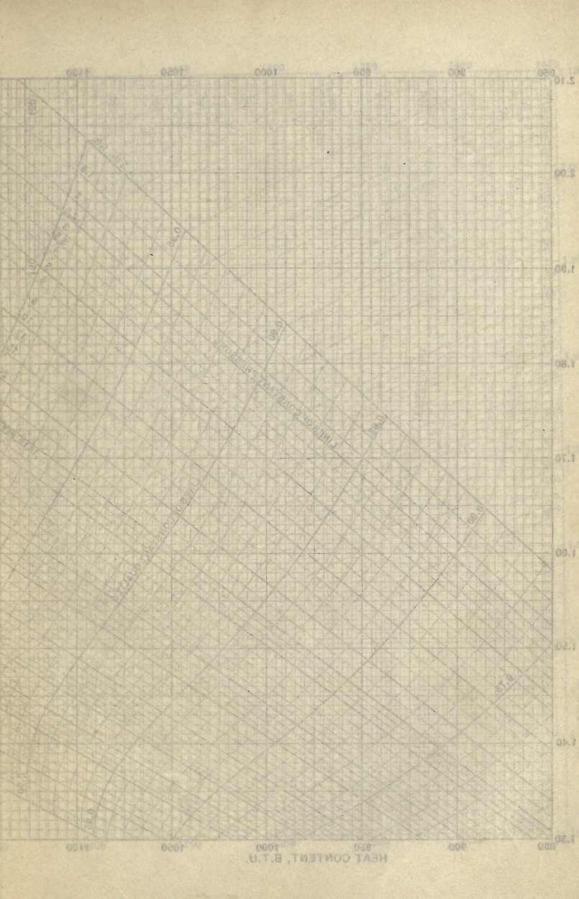
$$\frac{75}{60} \times \frac{6.96}{2110} = 0.00413$$
 sq. ft. = 0.595 sq. in.

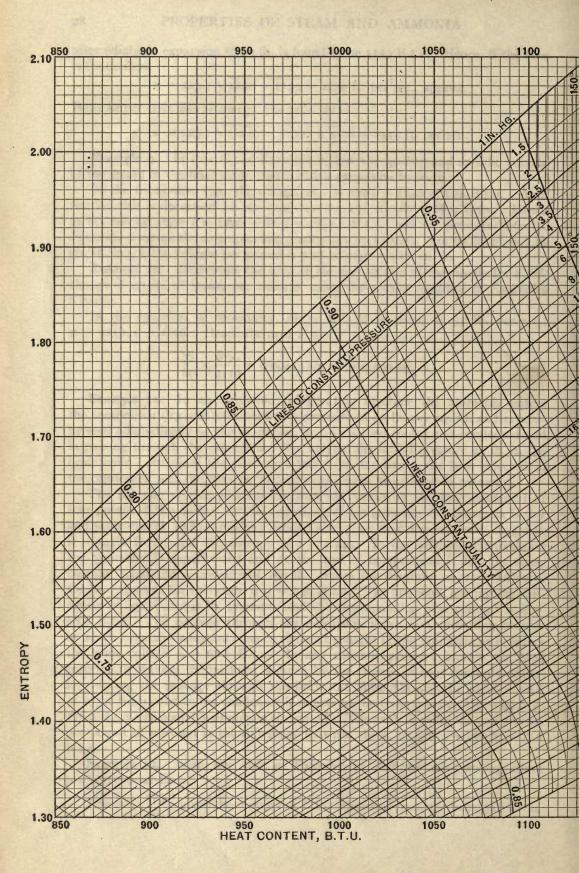
Example 11. In an ammonia refrigerating machine the ammonia enters the compressor dry and saturated at a pressure of 40 lb. per sq. in. and is compressed adiabatically to 190 lb. per sq. in. It is then cooled and condensed and in passing through the expansion valve attains the initial pressure 40 lb. in the brine coils. Required the heat absorbed from the brine, the heat rejected in the condenser, and the heat equivalent of the work per pound of ammonia.

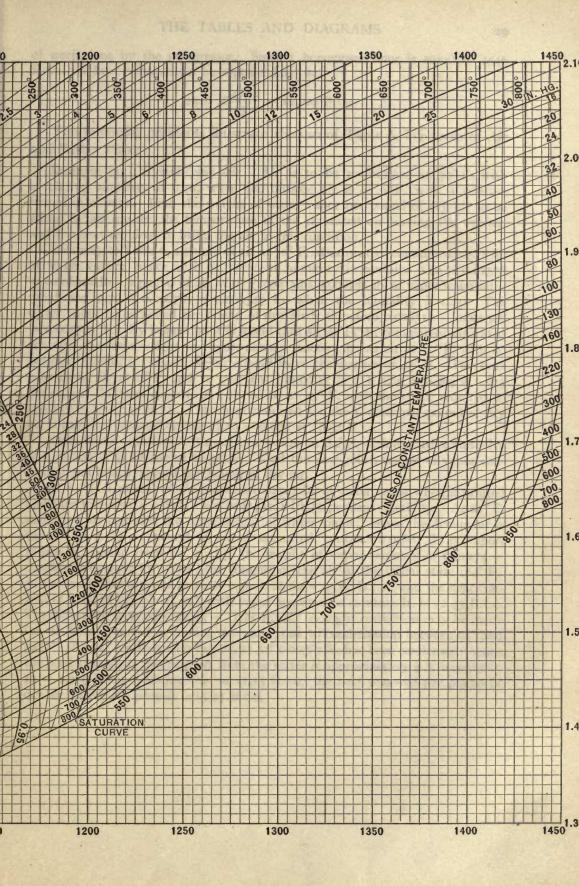
The solution of this problem requires the values of the heat content i at four points of the cycle. At the beginning of compression the ammonia is dry and saturated at 40 lb. pressure; from Table 7, or from the ammonia diagram, $i_1 = 541.8$ B.t.u. and the entropy is s = 1.149. In the adiabatic compression the ammonia is superheated and at the end of compression it has the same entropy 1.149 and a pressure of 190 lb. From the diagram, or from Table 9, the heat content for this state is $i_2 = 639$ B.t.u. The ammonia leaving the condenser is liquid at 190 lb. pressure, and the corresponding heat content is $i_3 =$ 68.6 B.t.u. The passage through the expansion valve is a throttling process in which *i* remains constant; hence the heat content of the ammonia as it enters the brine coils is $i_4 = 68.6$ B.t.u. In any constant-pressure process the heat entering or leaving the medium is given by the change in heat content; therefore during the passage through the brine the ammonia absorbs 541.8 - 68.6= 473.2 B.t.u., and in the condenser it rejects to the cooling water 639 - 68.6 =570.4 B.t.u. per pound of ammonia circulated. The work done by the compressor per pound of medium is the difference between these, or 570.4 - 473.2 = 97.2B.t.u.

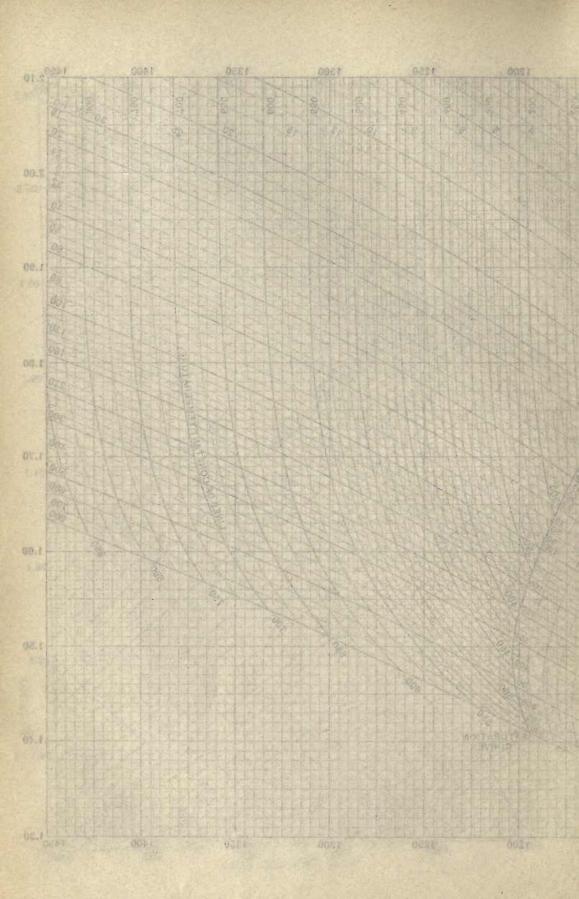
Example 12. With the data of Example 11 find the refrigerating effect per horsepower-hour.

The ratio $\frac{473.2}{97.2}$ gives the number of B.t.u. absorbed from the brine per B.t.u.









of work done by the compressor. Since I horsepower-hour is equal to 2546 B.t.u. the heat removed per horsepower-hour is

$$2546 \times \frac{473.2}{97.2} = 12,600$$
 B.t.u.

The following problems illustrate the use of Table 6, Mixtures of Air and Water Vapor.

Example 13. Humidifying Air. Air is to be maintained at 70° F. with a relative humidity of 0.40, when the outside air is at 0° F. with a relative humidity of 0.70. Find the weight of water vapor per pound of dry air to be added by air washer, the temperature of the saturated air leaving the washer, and the heat required to bring the air to this condition.

Referring to Table 6, I pound of air at 70° F., if saturated, contains 0.01578 lb. of water vapor; hence with 40 per cent humidity it contains 0.40 \times 0.01578 = 0.006312 lb. I pound of air at 0° F. contains 0.000781 lb. of vapor when saturated and 0.70 \times 0.000781 = 0.000547 lb. when the humidity is 0.70. The water vapor to be added per pound of dry air is therefore 0.006312 - 0.000547 = 0.005765 lb. By inspection it is found that air at 45° F. completely saturated contains the same weight of vapor, namely 0.00631 lb., as air at 70° F. with 40 per cent humidity; hence the air should leave the washer at 45° F. The heat content of air at 0° F. and 70 per cent humidity is 0 + 0.70 \times 0.964 = 0.675 B.t.u., and the heat content of I lb. of air at 45° F. with the vapor required to saturate it is 17.59 B.t.u. The heat required for the process per pound of dry air is therefore approximately 17.59 - 0.675 = 16.92 B.t.u.

Example 14. Cooling. Air enters a washer at 84° F. with a relative humidity of 0.50 and is to be cooled to 54° F. Find the dew-point, weight of vapor condensed and heat removed per pound of dry air.

At 84° F. I pound of air contains 0.02547 lb. of water vapor when saturated and therefore 0.50 \times 0.02547 = 0.01274 lb. with 50 per cent humidity. At 64° F. saturated air contains the same weight of water vapor; hence the dew-point is 64° F. At 54° F. I pound of air, if saturated, contains 0.00887 lb. of vapor. Hence in cooling from 64° to 54° the weight of vapor removed is 0.01274 – 0.00887 = 0.00387 lb. The heat content of the air in the initial state (84° F., 50 per cent humidity) is 20.29 \times 0.50 \times 26.62 = 33.60 B.t.u., and the heat content of I lb. of dry air at 54°, with vapor required to saturate it, is 22.45 B.t.u. The difference is 33.60 – 22.45 = 11.15 B.t.u. A slight correction may be made for the heat removed in cooling the water, due to condensation between 64° and 54° F. At 64° condensation begins, at 54° 0.00387 lb. has been condensed; hence the heat that must be removed from the water is approximately $\frac{1}{2} \times$ 0.00387 \times 10 = 0.019 B.t.u. Adding this to 11.15 B.t.u., the heat removed per pound of dry air during the process is 11.17 B.t.u.

TABLE 1

PROPERTIES OF SATURATED STEAM

PRESSURES

1103	sure	Temp	Vol- ume,	Weight,	Heat c in B	ontent .t.u.		t heat .t.u.	Energy	E	Entropy	
In. of mer- cury	Lb. per sq. in.	Temp., °F.	cu. ft. per lb.	lb. per cu. ft.	of liquid	of vapor	of vapor- ization	Internal	in B.t.u.	of liquid	of vapor- ization	of vapor
р	-	t	⊽″	ı/v*	i'	ì″	r	ρ	u"	s′	r/T	s"
0.2	0.0982	34.55		0.000334	2.56	1074.2	1071.7		1018.8	0.0052	2.1687	2.1739
0.3	.1474	44.97 52.67		.000491	13.04	1079.2	1066.1		1023.6 1026.4	.0262	2.1130	2.1392
0.5	.2456	58.83		.000797	26.91	1085.7	1058.8		1028.6	.0533	2.0423	2.0956
0.6	.2947	63.98		.000947	32.06	1088.1	1056.0	998.4	1030.4	.0632	2.0169	
0.7 0.8	0.3438	68.43 72.35	913 805	0.001096	36.50 40.42	1090.1 1091.9	1053.6 1051.5	995.5	1032.0	0.0717	1.9956 1.9768	2.0672
0.9	.4421	75.87	720	.001389	43.93	1091.9	1049.6	993.0 990.7	1033.4 1034.6	.0856	1.9708	2.0558
1.0	.4912	79.06	652	.001534		1095.0	1047.9	988.7	1035.8	.0915	1.9455	2.0370
1.1	.5403	81.98	596	.001679	50.03	1096.4	1046.4	986.8	1036.8	.0969	1.9320	2.0290
1.2 1.3	0.589 .639	84.68 87.19	549 508.7	0.001823 .001966	52.72 55.23	1097.6	1044.9 1043.5	985.0 983.4	1037.7	0.1019	1.9198	2.0217
1.4	.688	89.54	474.3	.002108		1099.8	1043.5	981.9	1030.0	.1108	1.8980	2.0150
1.5	.737	91.75	444.5	.002250		1100.8	1041.1	980.4	1040.2	.1148	1.8882	2.0030
1.6	.786	93.83	418.2	.002391	61.84	1101.8	1040.0	979.1	1040.9	.1185	1.8791	1.9976
1.7	0.835	95.80	395.0	0.002532	63.81	1102.7	1038.9	977.8	1041.6	0.1221	1.8705	1.9926
1.8	.884	97.67	374.3	.002672	65.68	1103.5	1037.9	976.6	1042.3	.1254	1.8624	1.9878
1.9 2.0	·933 .982	99.46 101.17	355·7 338.9	.002811	67.46 69.16	1104.3 1105.1	1036.9 1036.0	975·4 974·3	1042.9	.1286	1.8547 1.8474	1.9833
	1					100						
2.036	1.000	101.76	333.3	0.00300	69.76	1105.4	1035.6	973.9	1043.7	0.1327	1.8448	1.9775
2.1 2.2	1.031 1.081	102.80	323.7	0.00309	70.79	1105.9 1106.6	1035.1	973.2	1044.0	0.1345	1.8404	1.9750
2.3	1.130	104.37 105.88	309.8 297.1	.00323 .00337	72.36 73.86	1107.2	1034.2 1033.4	971.2	1044.0	.1373	1.8338	1.9711
2.4	1.179	107.33	285.5	.00350	75.30.	1107.9	1032.6	970.3	1045.6	.1425	1.8213	1.9639
2.5	1.228	108.73	274.7	.00364	76.70	1108.5	1031.8	969.4	1046.1	.1450	1.8155	1.9605
2.6	1.477	110.08	264.7	0.00378	78.05	1109.1	1031.1	968.5	1046.5	0.1474	1.8099	1.9573
2.8	1.326 1.375	III.39 II2.66	255.5 246.9	.00391	79.36	1109.7 1110.3	1030.4	967.6 966.8	1047.0	.1497	1.8045	1.9541 1.9511
2.9	I.424	113.89	238.9	.00419	81.85	1110.8	1029.0	966.0	1047.8	.1540	1.7942	1.9482
3.0	I.474	115.08	231.4	.00432	83.04	1111.4	1028.3	965.2	1048.2	.1561	1.7893	1.9454
3.1	1.523	116.24	224.4	0.00446	84.19	1111.9	1027.7	964.4	1048.6	0.1581	1.7846	1.9427
3.2 3.3	1.572 1.621	117.37 118.47	217.8	.00459	85.32 86.41	III2.4 III2.9	1027.0	963.7 962.9	1049.0 1049.4	.1601 .1620	1.7800	1.9401 1.9376
3.4	1.670	119.54	205.7	.004/3	87.48	III2.9 III3.3	1025.8	962.2	1049.4	.1638	1.7713	1.9370
3.5	1.719	120.58	200.2	.00500	88.52	1113.8	1025.3	961.5	1050.1	.1656	1.7671	1.9327
3.6	1.768	121.60	195.0	0.00513	89.53	1114.2	1024.7	960.9	1050.4	0.1673	1.7631	1.9304
3.7	1.817 1.866	122.59	190.0	.00526	90.52	1114.7	1024.2	960.3	1050.7	.1690	1.7591	1.9281
	1.800	123.57 124.52	185.3	.00540 .00553	91.49 92.44	1115.1 1115.5	1023.6 1023.1	959.6 958.9	1051.0	.1707 .1723	1.7553 1.7515	1.9260 1.9238
4.0	1.965	125.44		.00566	93.37	1115.9	- 1	958.3	1051.7		1.7478	
4.072	2	126.10	173.6	0.00576	94.02	1116.2	1022.2	957.9	1051.9	0.1750	1.7452	1.9203
4.1	2.014	126.35	172.5	0.00580	94.28	1116.3	1022.0	957.7	1052.0	0.1755	1.7442	1.9197
4.2	2.063	127.25	168.7	.00593	95.16	1116.7	1021.5	957.I	1052.3	.1770	1.7407	1.9177
4.3	2.112	128.12	165.0	.00606	96.03	1117.1	1021.1	956.5	1052.6	.1785		
4.4	2.161	128.97	161.5	.00619	96.89	1117.5	1020.0	956.0	1052.9	.1799	1.7340	1.9139

-	Pre	ssure		Vol-		Heat	content		t heat			Entropy	
-	In. of		Temp., °F.	ume, cu. ft.	Weight, lb. per cu. ft.		.t.u.		.t.u.	Energy in B.t.u.			
	mer- cury	Lb. per sq. in.		per lb.		of liquid	of vapor	of vapor- ization	Internal		of liquid	of vapor- ization	of vapor
	P .	-	t	٧"	I/V"	i'	i*	r	ρ	u″	s'	r/T	s "
	4.5 4.6 4.7 4.8 4.9	2.211 2.260 2.309 2.358 2.407	130.64 131.44 132.24	154.8 151.7 148.8	0.00633 .00646 .00659 .00672 .00685	97.73 98.55 99.35 100.14 100.92	1117.8 1118.2 1118.6 1118.9 1119.2	1020.1 1019.7 1019.2 1018.8 1018.3	955.4 954.9 954.4 953.8 953.3	1053.1 1053.4 1053.7 1054.0 1054.2	0.1813 .1827 .1841 .1854 .1867		1.9121 1.9103 1.9085 1.9068 1.9051
	5	2.456 2.947			0.00698 .00829	110.68 108.69	1119.6 1122.6	1017.9 1013.9	952.8 948.1	1054.5 1056.8	0.1880 .1998	1.7154 1.6888	1.9034 1.8886
	5.108	3	141.49	118.7	0.00843	109.38	1122.9	1013.5	947.6	1057.0	0.2009	1.6862	1.8871
	3	3.438 3.929		110.4 92.1	0.00958 .01085	114.8 120.2	1125.2 1127.5	1010.5 1007.4	944.0 940.4	1058.8 1060.5	0.2098 .2187	1.6661 1.6464	1.8760 1.8651
	3.144	4	152.99	90.6	0.01104	120.9	1127.9	1007.0	939.9	1060.7	0.2199	1.6438	1.8637
10		4.421 4.912	157.10 161.50	82.5 74.8	0.01212 .01338	125.0 129.4	1129.6 1131.4	1004.6 1002.1	937.1 934.1	1062.1 1063.5	0.2265 .2336	1.6290 1.6134	1.8556 1.8470
	.180	5	162.25	73.5	0.01360	130.1	1131.7	1001.6	933.6	1063.7	0.2348	1.6107	1.8456
11		5.403 5.894		68.4 63.0	0.01463 .01587	133.4 137.2	1133.1 1134.7	999•7 997•5	931.3 928.8	1064.8 1065.9	0.2401 .2461	1.5992 1.5862	1.8393 1.8323
	.216	6	170.07	62.0	0.01614	137.9	1135.0	997.1	928.2	1066.2	0.2473	1.5835	1.8308
13		6.39 6.88	172.79 176.06	58.5 54.6	0.01710 .01833	140.7 143.9	1136.1 1137.5	995.5 993.6	926.4 924.1	1067.0 1068.0	0.2516 .2568	1.5742 1.5630	1.8258 1.8198
14	25	7	176.85	53.7	0.01864	144.7	1137.8	993.1	-923.6	1068.3	0.2581	1.5603	1.8184
18		7.37 7.86	179.14 182.06	51.14 48.14	0.01955 .02077	147.0 149.9	1138.8 1140.0	991.7 990.0	922.0 920.0	1069.0 1069.9	0.2617 .2662	1.5526 1.5429	1.8143 1.8091
	.29	8	182.87	47.35	0.02112	150.8	1140.3	989.5	919.4	1070.2	0.2675	1.5402	1.8077
17		8.35 8.84	184.83 187.46	45.49 43.12	0.02198 .02319	152.7 155.4	1141.1 1142.1	988.3 986.7	918.1 916.2	1070.8 1071.7	0.2705 .2746	1.5337 1.5250	1.8042 1.7996
	.32	9	188.28	42.41	0.02358	156.2	1142.5	986.3	915.6	1071.8	0.2759.	1.5223	1.7982
19 20		9.33 9.82	189.97 192.38	40.99 39.08	0.02439 .02559	157.9 160.3	1143.1 1144.1	985.2 983.8	914.4 912.7	1072.3 1073.1	0.2785 .2822	1.5168 1.5089	1.7953 1.7912
	.36	10	193.21	38.43	0.02602	161.1	1144.4	983.3	912.2	1073.3	0.2835	1.5062	1.7897
21 22		10.31 10.81	194.68 196.89	37·34 35·75	0.02678	162.6 164.8	1145.0 1145.9	982.4 981.1	911.1 909.6	1073.8 1074.4	0.2858 .2892	1.5015 1.4944	1.7873 1.7835
	.40	11	197.75	35.16	0.02844	165.7	1146.2	980.5	909.0	1074.6	0.2905	1.4916	1.7821
23 24		11.30 11.79	199.03 201.09	34.29 32.95	0.02916 .03035	167.0 169.0	1146.7 1147.5	979.8 978.5	908.1 906.6	1075.1 1075.7	0.2924 .2955	1.4876 1.4810	1.7800 1.7766
	•43	12	201.96	32.41	0.03086	169.9	1147.9	978.0	906.0	1075.9	0.2969	1.4783	1.7752
25 26		12.28 12.77	203.08 205.00	31.71 30.57	0.03153	170.1 173.0	1148.3 1149.1	977.3 976.1	905.2 903.8	1076.2 1076.8	0.2986 .3015	1.4747 1.4687	1.7733 1.7702
	•47	13	205.88	30.07	0.03326	173.8	1149.4	975.6	903.2	1077.0	0.3028	1.4659	1.7687
27 28		13.26 13.75	206.87 208.67	29.51 28.53	0.03388	174.8 176.6	1149.8 1150.5	974-9 973.8	902.5 901.2	1077.3 1077.9	0.3043 .3070	1.4629 1.4572	1.7671 1.7642
	.50	14	209.56	1.1		177.5	1150.8	973.3	900.6	1078.1		1.4545	1.7628
29		14.24	210.43		0.03622	178.4	1151.2	972.7	900.0	1078.4	0.3096	1.4518	1.7614
29 30	.92	14.697	212			180.0	1151.7	971.7	898.8	1078.8		1.4469	1.7589
	-	14.74	212.13	26.75	0.03739	180.1	1151.8	971.7	898.8	1078.9	0.3122	1.4405	1.7587

				Heat or	ntent in	Latent	heat in		1	_	
Pres- sure,	Temp.,	Volume,	Weight,		t.u.	B.t		Energy		Entropy	
lb. per sq. in.	° F.	cu. ft. per lb.	lb. per cu. ft.	of liquid	of vapor	of vapor- ization	Internal	in B.t.u.	of liquid	of vapor- ization	of vapor
р	t	▼″	I/V°	i′	i"	r	ρ	u"	s'	r/T	s″
15	213.0	26.30	0.03802	181.0	1152.2	971.2	898.1	1079.1	0.3135	1.4438	1.7573
16	216.3	24.76	.04038	184.3	1153.4	969.1	895.8	1080.0	.3184	1.4337	1.7521
17	219.4	23.40	.04274	187.5	1154.6	967.1	893.5	1080.9	.3230	1.4242	1.7473
18	222.4	22.18	.04508	190.5	1155.7.	965.2	891.4	1081.7	.3274	1.4153	1.7427
19	225.2	21.09	.04742	193.3	1156.7	963.4	889.3	1082.5	.3316	1.4068	1.7384
20	228.0	20.10	0.0498	196.0	1157.7	961.7	887.3	1083.3	0.3356	1.3987	1.7343
21	230.6	19.20	.0521	198.7	1158.7	960.0	885.4	1084.0	•3394	1.3910	1.7304
22 23	233.1 235.5	18.38 17.64	.0544 .0567	201.2	1159.6 1160.4	958.4 956.8	883.6 881.8	1084.7	.3430 .3465	1.3837 1.3766	I.7267 I.723I
24	237.8	16.95	.0590	206.0	1161.3	955.3	880.1	1085.9	.3499	1.3698	1.7197
25	240.1	16.32	0.0613	208.2	1162.1	953.8	878.4	1086.5	0.0507	1.3633	1 7764
26	240.1	15.73	.0636	210.4	1162.8	953.0	876.8	1087.1	0.3531	1.3570	1.7164 1.7133
27	244.3	15.18	.0659	212.6	1163.6	951.0	875.2	1087.7	.3593	1.3510	1.7103
28	246.4	14.67	.0681	214.6	1164.3	949.7	873.7	1088.2	.3622 .	1.3452	1.7074
29	248.4	14.20	.0704	216.6	1165.0	948.4	872.2	1088.7	.3651	1.3395	1.7046
30	250.3	13.76	0.0727	218.6	1165.7	947.I	870.7	1089.2	0.3679	1.3340	1.7019
31	252.2	13.34	.0749	220.5	1166.3	945.8	869.3	1089.7	.3705	1.3287	1.6992
32	254.0	12.95	.0772	222.4	1166.9	944.6	867.9	1090.2	·3731	1.3236	1.6967
33	255.8	12.59	.0795 .0818	224.2	1167.5	943.4	866.5	1090.6	•3757	1.3186	1.6942
34	257.6	12.24	.0010	225.9	1168.1	942.2	865.2	1091.0	.3781	1.3137	1.6918
35	259.3	11.91	0.0840	227.7	1168.7	941.0	863.9	1091.5	0.3805	1.3090	1.6895
36	260.9	11.60	.0862	229.4	1169.2	939.9	862.7	1091.9	.3829	1.3044	1.6873
37 38	262.6	11.31 11.03	.0884 .0907	231.0 232.6	1169.8 1170.3	938.8	861.4	1092.3	.3852 .3874	1.2999	1.6851
39	265.7	10.76	.0929	234.2	1170.8	937.7 936.6	859.0	1093.1	.3896	1.2913	1.6809
40	267.2	10.51	0.0951	235.8	1171.3	935.5	857.8	1093.4	0.3917	1.2871	1.6788
41	268.7	10.27	.0974	237.3	1171.8	934.5	856.7	1093.8	.3938	1.2831	1.6768
42	270.2	10.04	.0996	238.8	1172.2	933.5	855.5	1094.2	.3958	1.2791	1.6749
43	271.6	9.82	.1018	240.2	1172.7	932.5	854.4	1094.5	.3978	1.2752	1.6730
44	273.0	9.61	.1040	241.7	1173.2	931.5	853.3	1094.8	.3998	1.2714	1.6712
45	274.4	9.41	0.1062	243.I	1173.6	930.5	852.2	1095.2	0.4017	1.2677	1.6694
46	275.8	9.22	.1085	244.5	1174.0	929.6	851.2	1095.5	.4036	1.2640	1.6676
47	277.1	9.04 8.86	.1107	245.8	1174.4	928.6	850.1	1095.8	.4054	1.2605	1.6659
48 49	278.4 279.7	8.69	.1129 .1151	247.2	1174.8 1175.2	927.7 926.8	849.1 848.1	1096.4	.4072	1.2570 1.2535	1.6625
50	281.0	9 7 9					0		0.1708		- 66-00
51	282.3	8.53 8.37	0.1173	249.8 251.0	1175.6	925.9 925.0	847.1 846.1	1096.7 1097.0	0.4108	1.2501 1.2468	1.6609 1.6593
52	283.5	8.22	.1217	252.3	1176.4	924.1	845.1	1097.2	.4142	1.2436	1.6577
53	284.7	8.07	.1239	253.5	1176.7	923.2	844.2	1097.5	.4158	1.2404	1.6562
54	285.9	7.93	.1261 .	254.7	1177.1	922.4	843.2	1097.8	.4174	1.2373	1.6547
55	287.1	7.80,	0.1283	255.9	1177.5	921.5	842.3	1098.0	0.4190	1.2342	1.6532
56	288.2	7.67	.1304	257.1	1177.8	920.7		1098.3	.4206	1.2311	1.6517
57	289.4	7.54	.1326	258.3	1178.1	919.8	840.4	1098.6	.4222	1.2281	1.6503
58 59	290.5 291.6	7.42	.1348	259.5 260.6	1178.5 1178.8	919.0 918.2	839.5 838.6	1098.8 1099.0	.4237 .4252	1.2252 1.2223	1.6489 1.6475
		7.30	.1370								
60 67	292.7	7.18	0.1392	261.7	1179.1	917.4	837.8	1099.3	0.4267	1.2195	1.6462
61 62	293.8	7.07 6.97	.1414	262.8 263.9	1179.4	916.6	836.9 836.0	1099.5	.4282	1.2167	1.6448 1.6435
63	294.9 295.9	6.86	.1435 .1457	203.9 265.0	1179.7 1180.0	915.8 915.0	835.2	1099.7 1100.0	.4296 .4310	1.2139 1.2112	1.6422
64 .	295.9	6.76	.1457	266.1	1180.3	913.0	834.3	1100.2	.4324	1.2085	1.6409
65	298.0	6.66	0.1501	267.1	1180.6	913.5	833.5	1100.4	0.4338	1.2058	1.6397
66	299.0	6.57	.1522	268.2	1180.9	913.5	832.7	1100.6	.4352	1.2032	1.6384
67	300.0	6.48	.1544	269.2	1181.2	912.0	831.9	1100.8	.4366	1.2006	1.6372
68	301.0	6.39	.1566	270.2	1181.5	911.2	831.1	1101.0	•4379	1.1981	1.6360
69	302.0	6.30	.1587	271.2	1181.7	910.5	830.3	1101.2	.4392	1.1956	1.6348
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Pres- sure,	Temp.,	Volume, cu. ft.	Weight, lb per		ontent in t.u.		heat in	Energy		Entropy	
lb. per sq. in.	° F.	per lb.	cu. ft.	of liquid	of vapor	of vapor- ization	Internal	B.t.u.	of liquid	of vapor- ization	of vapor
р.	t	v"	1/7"	i′ .	i"	r	ρ	u"	s'	r/T	s"
70	302.9	6.22	0.1609	272.2	1182.0	909.8	829.5	1101.4	0.4405	1.1931	7 6006
71	303.9	6.13	.1630	273.2	1182.3	909.1	828.7	1101.6	.4418	1.1931	1.6336 1.6324
72	1 304.8	6.05	.1652	274.2	1182.5	908.3	827.9	1101.8		1.1883	
		-	.1674	275.1	1182.8	907.6	827.1	1101.0	.4431		1.6313
73	305.8	5.97	.1695	275.1	1183.0		826.4	1102.2	.4443	1.1859	1.6302
74	306.7	5.90	.1095	2/0.1	1103.0	906.9	020.4	1102.2	.4456	1.1835	1.6291
_75	307.6	5.82	0 1 5 1 5	077.0	1183.3	906.2	825.6		0 4 4 6 9	1.1812	1.6280
70	308.5		0.1717	277.0 278.0	1183.5	-	824.9	1102.4 1102.6	0.4468	1.1789	1.6269
77	309.4	5.75 5.68	.1750	278.9	1183.8	905.5	824.9	1102.0	.4480	1.1767	
78	310.3	5.61	.1781	279.8	1184.0	904.9	823.4	1102.9	.4492		1.6259
	311.2		.1803	279.0	1184.2	904.2	822.6		.4504	1.1744	1.6238
79	311.2	5.55	.1003	200.7	1104.2	903.5	022.0	1103.1	.4515	1.1722	1.0230
80	312.0	5.48	0.1824	281.6	1184.4	902.8	821.9	1103.2	0.4527	1.1700	1.6227
81	312.9		.1846	282.5	1184.7	-	821.2	-		1.1679	1.6217
82	312.9	5.42	.1868	283.4	1184.9	902.2 901.5	820.5	1103.4 1103.6	.4538 .4550	1.1679	1.6207
83	313.7	5.35 5.29	.1889	284.2	1184.9	900.9	819.8	1103.0	.4550	1.1057	1.6197
84	315.4		.1009	285.1	1185.3	900.9	819.1	1103.9		1.1630	1.6197
04	5-5-4	5.23.	.1910	203.1	1103.3	900.2	019.1	1103.9	.4572	1.1015	1.0107
85	316.3	5.18	0.1932	286.0	1185.5	899.6	818.4	1104.1	0.4583	1.1595	1.6178
86	317.1	5.12	.1953	286.8	1185.7	898.9	817.7	1104.1	•4594	1.1595	1.6168
87	317.9	5.06	.1953	287.6	1185.9	898.3	817.0	1104.4	.4604	1.1574	1.6158
88	318.7	5.01	.1995	288.5	1186.1	897.7	816.3	1104.5	.4615	1.1534	1.6149
89	319.5	4.96	.2017	289.3	1186.3	897.1	815.7	1104.7	.4626	1.1514	1.6149
09	3-9.3	4.90	.2017	209.3	1100.3	097.1	013.7	1104.7	*4020	1.1.314	1.0140
90	320.3	4.905	0.2039	290.I	1186.5	896.4	815.0	1104.8	0.4636	1,1495	1.6131
91	321.0	4.854	.2060	290.9	1186.7	895.8	814.3	1104.9	.4647	1.1475	1.6122
92	321.8	4.805	.2081	291.7	1186.9	895.2	813.7	1105.1	.4657	1.1456	1.6113
93	322.6	4.756	.2102	292.5	1187.1	894.6	813.0	1105.2	.4667	1.1437	1.6105
94	323.3	4.709	.2124	293.3	1187.3	894.0	812.4	1105.4	.4677	1.1419	1.6096
-	0 0 0	4.1-5		- 50.0		- 54			.4-11		
95	324.I	4.663	0.2145	294.1	1187.5	893.4	811.7	1105.5	0.4687	1.1400	1.6087
96	324.8	4.617	.2166	294.8	1187.7	892.8	811.1	1105.6	.4697	1.1381	1.6079
97	325.6	4.572	.2187	295.6	1187.8	892.2	810.5	1105.8	.4707	1.1363	1.6070
98	326.3	4.528	.2209	296.4	1188.0	891.6	809.8	1105.9	.4717	1.1345	1.6062
99	327.I	4.484	.2230	297.2	1188.2	891.0	809.2	1106.0	.4726	1.1327	1.6053
			Ŭ								
100	327.8	4.442	0.2251	297.9	1188.4	890.5	808.6	1106.2	0.4736	1.1309	1.6045
IOI	328.5	4.400	.2273	298.7	1188.5	889.9	808.0	1106.3	.4745	1.1291	1.6037
102	329.2	4.359	.2294	299.4	1188.7	889.3	807.4	1106.4	.4755	1.1274	1.6028
103	330.0	4.318	.2316	300.1	1188.9	888.7	806.7	1106.5	.4764	1.1256	1.6020
104	330.7	4.279	.2337	300.9	1189.0	888.2	806.1	1106.6	•4773	1.1239	1.6012
105					0	00 0		6.0	0	1	
105	331.4	4.240	0.2358	301.6	1189.2	887.6	805.5	1106.8	0.4782	1.1222	1.6004
106	332.0	4.202	.2380	302.3	1189.4	887.1	804.9	1106.9	.4791	1.1205	1.5996
107	332.7	4.165	.2401	303.0	1189.5	886.5	804.3	1107.0	.4800	1.1189	1.5989
108	333.4	4.128	.2422	303.7	1189.7	885.9	803.8	1107.1	.4809	1.1172	1.5981
109	334.1	4.092	.2444	304.4	1189.8	885.4	803.2	1107.2	.4818	1.1155	1.5973
110	334.8	4.075	0.246=	205 1	TTOCO	884.8	802.6	1105 0	0.4827	1 1108	1.5965
III		4.057	0.2465	305.1 305.8	1190.0 1190.1	884.3	802.0	1107.3 1107.4	.4836	1.1138 1.1122	1.5905
II2	335.5 336.1						801.4	1107.6		1.1122	
	336.8	3.988	.2508	306.5	1190.3	883.7 883.2	800.9		.4844 .4853	1.1090	1.5950
113		3.954	.2529	307.2	1190.4			1107.7	.4861	1.1074	
114	337.4	3.921	.2550	307.9	1190.6	882.7	800.3	1107.8	.4001	1.10/4	1.5935
115	338.1	3.889	0.2572	308.6	1190.7	882.1	799.7	1107.9	0.4870	1.1058	1.5928
116	338.7	3.857	.2593	309.2	1190.7	881.6	799.2	1107.9	.4878	1.1043	1.5921
117	339.4	3.826	.2593	309.2	1191.0	881.1	798.6	1108.1	.4886	1.1043	1.5914
118	340.0	3.795	.2635	310.6	1191.1	880.6	798.0	1108.2	.4895	1.1012	1.5907
119	340.6	3.765	.2657	311.2	1191.2	880.0	797.5	1108.3	.4993	1.0997	1.5900
9	340.0	3.105	.2057	511.4	1191.2	000.0	191.5	1100.3	.4903	1.0997	
120	341.3	3.735	0.2678	311.9	1191.4	879.5	796.9	1108.4	0.4911	1.0982	1.5893
121	341.9	3.705	.2699	312.5	1191.5	879.0	796.4	1108.5	.4919	1.0967	1.5886
122	342.5	3.676	.2720	313.2	1191.6	878.5	795.8	1108.6	.4927	1.0952	1.5879
123	343.1	3.648	.2741	313.8	1191.8	878.0	795.3	1108.7	.4935	1.0937	1.5872
124	343.7	3.620	.2762	314.4	1191.9	877.5	794.8	1108.8	•4933	1.0922	1.5865
T	0101	0.000		0-4-4	9 9	511.5	154.0			1	1.0100
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Pres- sure,	Temp.,	Volume,	Weight,		ontent in t.u.		heat in	Energy		Entropy	
lb. per sq. in.	°F.	cu. ft. per lb.	lb. per cu. ft.	of liquid	of vapor	of vapor- ization	Internal	in B.t.u.	of liquid	of vapor- ization	of vapor
р	t	۷"	ı/v"	i'	i"	r	ρ	u"	s'	r/T	s"
125	344.4	3.593	0.2783	315.1	1192.0	876.9	794.2	1108.8	0.4950	1.0908	1.5858
126	345.0	3.566	.2805	315.7	1192.1	870.4	793.7	1108.9	.4958	1.0894	1.5852
127 128	345.6	3.539 3.513	.2826	316.3	1192.3	875.9 875.4	793.2	1109.0	.4966 .4974	1.0879	1.5845 1.5838
129	346.8	3.487	.2868	317.6	1192.5	874.9	792.1	1109.2	.4974	1.0851	1.5832
130	347.4	3.461	0.2889	318.2	1192.6	874.4	791.6	1109.3	0.4989	1.0836	1.5825
131	347.9	3.436	.2910	318.8	1192.7	873.9	791.0	1109.4	.4996	1.0822	1.5819
132	348.5	3.412	.2931	319.4	1192.9	873.5	790.5	1109.5	.5004	1.0808	1.5812
133 134	349.1 349.7	3.387 3.363	.2952 .2973	320.0 320.6	1193.0 1193.1	873.0	790.0 789.5	1109.5 1109.6	.5011 .5019	1.0795 1.0781	1.5806 1.5800
135	350.3	3.340	0.2994	321.2	1193.2	872.0	789.0	1109.7	0.5026	1.0767	1.5793
136	350.8	3.316	.3016	321.8	1193.3	871.5	788.5	1109.8	.5033	1.0754	1.5787
137	351.4	3.293	.3037	322.4	1193.4	871.0	788.0	1109.9	.5041	1.0740	1.5781
138	352.0	3.270	.3058	323.0	1193.5	870.5	787.4	1110.0	.5048	1.0727	1.5775
139	352.5	3.248	.3079	323.6	1193.6	870.1	786.9	1110.0	.5055	1.0714	1.5769
140	353.1	3.226	0.3100	324.2	1193.7	869.6	786.4	1110.1	0.5062	1.0700	1.5762
141	353.6	3.204	.3121	324.7	1193.8	869.1	785.9	1110.2	.5069	1.0687	1.5756
142 143	354.2 354.8	3.162	.3142	325.3	1193.9 1194.0	868.2	785.4	1110.3	.5076	1.0674	1.5750 1.5744
143	355.3	3.140	.3184	326.5	1194.1	867.7	784.5	1110.4	.5090	1.0648	1.5738
145	355.8	3.120	0.3206	327.0	1194.2	867.2	784.0	1110.5	0.5097	1.0636	1.5733
146	356.3	3.099	.3227	327.6	1194.3	866.8	783.5	1110.6	.5104	1.0623	1.5727
147	356.9	3.079	.3248	328.2	1194.4	866.3	783.0	1110.6	.5111	1.0610	1.5721
148 149	357·4 357·9	3.059 3.039	.3269 .3290	328.7 329.3	1194.5 1194.6	865.8 865.4	782.5 782.0	1110.7 1110.8	.5117 .5124	1.0598 1.0585	1.5715 1.5709
150	358.5	3.020	0.3311	329.8	1194.7	864.9	781.6	1110.9	0.5131	1.0573	1.5704
151	359.0	3.001	.3332	330.4	1194.8	864.5	781.1	1110.9	.5138	1.0561	1.5698
152	359.5	2.982	•3353	330.9	1194.9	864.0	780.6	1111.0	.5144	1.0548	1.5692
153 154	360.0 360.5	2.963	·3375 ·3396	331.5	1195.0 1195.1	863.6 863.1	780.1	IIII.I IIII.I	.5151	1.0536	1.5687 1.5681
155	361.1	2.927	0.3417	332.5	1195.2	862.7	779.2	1111.2	0.5164	1.0512	1.5676
156	361.6	2.909	.3438	333.1	1195.3	862.3	778.7	IIII.3	.5170	1.0500	1.5670
157	362.1	2.892	.3459	333.6	1195.4	861.8	778.3	1111.3	.5177	1.0488	1.5665
158	362.6	2.874	.3480	334.1	1195.5	861.4	777.8	IIII.4	.5183	1.0476	1.5659
159	363.1	2.857	.3501	334.7	1195.6	860.9	777.3	1111.5	.5190	1.0464	1.5654
160	363.6	2.839	0.3522	335.2	1195.7	860.5	776.9	1111.5	0.5196	1.0453	1.5649
161 162	364.1 364.6	2.822 2.806	·3543	335.7	1195.8	860.0	776.4 776.0	1111.6 1111.7	.5202	1.0441	1.5643 1.5638
162	365.1	2.789	.3564 .3585	336.2 336.8	1195.8	859.6	775.5	IIII.7 IIII.7	.5209	1.0429 1.0418	1.5633
164	365.6	2.773	.3606	337.3	1196.0	858.7	775.1	1111.8	.5221	1.0406	1.5627
165	366.1	2.757	0.3627	337.8	1196.1	858.3	774.6	1111.8	0.5227	1.0395	1.5622
166	366.5	2.741	.3648	338.3	1196.2	857.9	774.2	1111.9	.5233	1.0384	1.5617
167	367.0	2.725	.3670	338.8	1196.2	857.4	773.7	1112.0	.5239	1.0373	1.5612
168 169	367.5 368.0	2.710 2.694	.3691 .3712	339.3 339.8	1196.3 1196.4	857.0 856.6	773·3 772.8	1112.0 1112.1	.5245 .5252	1.0361 1.0350	1.5607 1.5602
170	368.5	2.679	0.3733	340.3	1196.5	856.2	772.4	1112.1	0.5258	1.0339	1.5597
171	369.0	2.664	·3754	340.8	1196.6	855.7	771.9	1112.2	.5264	1.0328	1.5592
172	369.4	2.649	·3775	341.3	1196.6	855.3	771.5	1112.2	.5270	1.0317	1.5587
173 174	369.9 370.4	2.634 2.620	.3796 .3817	341.8 342.3	1196.7 1196.8	854.9 854.5	771.1 770.6	1112.3 1112.4	.5275 .5281	1.0306 1.0295	1.5582 1.5577
175											
175	370.8 371.3	2.605 2.591	0.3838 .3859	342.8 343.3	1196.9 1196.9	854.1 853.6	770.2 769.8	1112.4 1112.5	0.5287	1.0284 1.0274	1.5572
177	371.8	2.577	.3880	343.8	1190.9	853.2	769.3	1112.5	.5293	1.0263	1.5562
178	372.2	2.563	.3901	344.3	1197.1	852.8	768.9	1112.6	.5305	1.0252	1.5557
179	372.7	2.550	.3922	344.8	1197.2	852.4	768.5	1112.6	.5310	1.0242	1.5552

											33
Pres- sure,	Temp.,	Volume, cu. ft.	Weight, lb. per		ntent in .t.u.	Latent B.t	heat in .u.	Energy		Entropy	
lb. per sq. in.	° F.	per lb.	cu. ft.	of liquid	of vapor	of vapor- ization	Internal	B.t.u.	of liquid	of vapor- ization	of vapor
р	t	۷"	I/V"	i'	i"	r	ρ	u″	s'	r/T	S "
180	373.1	2.536	0.3943	345.2	1197.2	852.0	768.0	1112.7	0.5316	1.0231	1.5547
181	373.6	2.523	.3964	345.7	1197.3	851.6	767.6	1112.7	.5322	1.0221	1.5542
182	374.0	2.509	.3985	346.2	1197.4	851.2	767.2	1112.8	.5328	1.0210	1.5538
183	374.5	2.496	.4006	346.7	1197.4	850.8	766.8	1112.8	·5333	1.0200	1.5533
184	374.9	2.483	.4027	347.1	1197.5	850.4	700.4	1112.9	·5339	1.0189	1.5528
185	375.4	2.470	0.4048	347.6	1197.6	849.9	765.9	1112.9	0.5344	1.0179	1.5523
186 187	375.8	2.457	.4069	348.1 348.6	1197.6	849.5	765.5	1113.0	.5350	1.0169	1.5519
187	376.3	2.445 2.432	.4090 .4111	340.0	1197.7 1197.8	849.1	764.7	1113.0 1113.1	.5356 .5361	1.0159 1.0148	1.5514 1.5509
189	377.1	2.420	.4132	349.5	1197.8	848.3	764.3	1113.1	.5367	1.0138	1.5505
190	377.6	2.408	0.4154	350.0	1197.9	847.9	763.9	1113.2	0.5372	1.0128	1.5500
191	378.0	2.395	.4175	350.4	1197.9	847.5	763.4	1113.2	.5378	1.0118	1.5496
192	378.5	2.383	.4196	350.9	1198.0	847.1	763.0	1113.2	.5383	1.0108	1.5491
193	378.9	2.372	.4217	351.3	1198.1	846.7	762.6	1113.3	.5388	1.0099	1.5487
194	379.3	2.360	.4238	351.8	1198.1	846.3	762.2	1113.3	•5394	1.0089	1.5482
195	379.7	2.348	0.4259	352.2	1198.2	846.0	761.8	1113.4	0.5399	1.0079	1.5478
196	380.2	2.337	.4280	352.7	1198.2	845.6	761.4	1113.4	.5404	1.0069	1.5473
197	380.6	2.325	.4301	353.1	1198.3	845.2	761.0	1113.5	.5410	1.0059	1.5469
198	381.0 381.4	2.314	.4322	353.6	1198.4 1198.4	844.8	760.6 760.2	1113.5	.5415	1.0049 1.0040	1.5464 1.5460
199	301.4	2.303	•4343	354.0	1190.4	044.4	700.2	1113.5	.5420	1.0040	1.5400
200	381.9	2.292	0.4364	354.5	1198.5	844.0	759.8	1113.6	0.5426	1.0030	1.5456
201	382.3	2.281	.4385	354.9	1198.5	843.6	759-4	1113.6	.5431	1.0020	1.5451
202 203	382.7 383.1	2.270	.4406	355·4 355.8	1198.6 1198.6	843.2	759.0 758.6	1113.7 1113.7	.5436	1.0011 1.0001	1.5447 1.5443
203	383.5	2.239	.4448	356.2	1198.7	842.5	758.2	1113.8	.5446	0.9992	1.5438
205	383.9	2.238	0.4469	356.7	1198.7	842.1	757.8	1113.8	0.5451	0.9983	1.5434
206	384.4	2.227	.4490	357.1	1198.8	841.7	757.4	1113.8	.5457	.9973	1.5430
207	384.8	2.217	.4511	357.5	1198.8	841.3	757.0	1113.9	.5462	.9964	1.5425
208	385.2	2.206	.4532	358.0	1198.9	840.9	756.7	1113.9	.5467	·9954	1.5421
209	385.6	2.196	.4553	358.4	1198.9	840.6	756.3	1114.0	.5472	•9945	1.5417
210	386.0	2.186	0.457	358.8	1199.0	840.2	755.9	1114.0	0.5477	0.9936	1.5413
211	386.4	2.176	.460	359.3	1199.0	839.8	755.5	1114.0	.5482	.9927	1.5409
212 213	386.8	2.166	.462	359·7 360.1	1199.1 1199.1	839.4	755.1	1114.I 1114.I	.5487	.9918	1.5405
214	387.6	2.147	.466	360.5	1199.2	838.7	754·7 754·3	1114.2	•5497	.9900	1.5396
215	388.0	2.137	0.468	361.0	1199.2	838.3	754.0	1114.2	0.5502	0.9890	1.5392
216	388.4	2.13/ 2.128	.470	361.4	1199.2	837.9	753.6	1114.2 1114.2	.5507	.9881	1.5388
217	388.8	2.118	.472	361.8	1199.3	837.6	753.2	1114.2	.5511	.9872	1.5384
218	389.2	2.109	.474	362.2	1199.4	837.2	752.8	1114.3	.5516	.9864	1.5380
219	389.6	2.099	.476	362.6	1199.4	836.8	752.4	1114.3	.5521	.9855	1.5376
220	390.0	2.090	0.478	363.0	1199.5	836.5	752.1	1114.3	0.5526	0.9846	1.5372
221	390.3	2.081	.481	363.4	1199.5	836.1	751.7	1114.4	.5531	.9837	1.5368
222	390.7	2.072	.483	363.9	1199.6	835.7	751.3	1114.4	.5536	.9828	1.5364
223	391.1	2.063	.485	364.3	1199.6	835.4	750.9	1114.4	.5540	.9820	1.5360
224	391.5	2.054	.487	364.7	1199.7	835.0	750.6	1114.5	•5545	.9811	1.5356
225	391.9	2.045	0.489	365.1	1199.7	834.6	750.2	1114.5	0.5550	0.9802	1.5352
226	392.3	2.036	.491	365.5	1199.7	834.3	749.8	1114.5	-5555	·9794	1.5348
227 228	392.7 393.0	2.028	·493 ·495	365.9 366.3	1199.8	833.9 833.6	749.4 749.1	1114.6	·5559 .5564	·9785 ·9777	I.5344 I.534I
229	393.0	2.019	.495	366.7	1199.9	833.2	749.1	1114.6	.5569	.9768	1.5337
230	393.8	2.002	0.499	367.1	1199.9	832.8	748.3	1114.6	0.5573	0.9760	1.5333
231	393.0	1.994	.502	367.5	1199.9	832.5	740.3	1114.0	.5578	.9751	1.5333
232	394.5	1.985	.504	367.9	1200.0	832.1	747.6	1114.7	.5583	.9742	1.5325
233	394.9	1.977	.506	368.3	1200.0	831.7	747.2	1114.7	.5587	.9734	1.5321
234	395.3	1.969	.508	368.7	1200.1	831.4	746.9	1114.8	.5592	.9726	1.5318
		3				1			1	1	

		1	1	1		1			1		-
Pres- sure,	Temp.,	Volume, cu. ft.	Weight, lb. per		ontent in t.u.	Latent B.t	heat in	Energy		Entropy	
lb. per sq. in.	°F.	per lb.	cu. ft.	of liquid	of vapor	of vapor- ization	Internal	B.t.u.	of liquid	of vapor- ization	of vapor
р	t	ν"	I/ V ″	i'	i"	r	ρ	u"	s'	r/T	8"
235	395.6	1.961	0.510	369.1	1200.I	831.0	746.5	1114.8	0.5597	0.9717	1.5314
236	395.0	1.953	.512	369.5	1200.1	830.7	746.2	1114.8	.5601	.9709	1.5314
237	396.4	1.945	.514	369.9	1200.2	830.3	745.8	1114.8	.5606	.9701	1.5306
238	396.8	1.937	.516	370.3	1 200.2	830.0	745.4	1114.9	.5610	.9692	1.5302
239	397.1	1.929	.518	370.6	1200.2	829.6	745.1	1114.9	.5615	.9684	1.5299
240	397.5	1.921	0.521	371.0	1200.3	829.3	744.7	1114.9	0.5619	0.9676	1.5295
241	397.9	1.913	.523	371.4	1200.3	828.9	744.4	1114.9	.5624	.9668	1.5291
242	398.2	1.906	.525	371.8	1200.4	828.6	744.0	1115.0	.5628	.9660	1.5288
243	398.6	1.898	.527	372.2	1200.4	828.2	743.6	1115.0	.5633	.9651	1.5284
244	398.9	1.890	.529	372.6	1200.4	827.8	743-3	1115.0	.5637	.9643	1.5280
245	399.3	1.883	0.531	373.0	1 200.5	827.5	742.9	1115.1	0.5641	0.9635	1.5276
246	399.7	1.876	·533	373.3	1 200.5	827.2	742.6	1115.1	.5646	.9627	1.5273
247	400.0	1.868	.535	373.7	1200.5	826.8	742.2	1115.1	.5650	.9619	1.5269
248	400.4	1.861	.537	374.1	1200.6	826.5	741.9	1115.1	.5655	.9611	1.5266
249	400.7	1.854	.540	374.5	1200.6	826.1	741.5	1115.1	.5659	.9603	1.5262
250	401.1	1.846	0.542	374.9	1 200.6	825.8	741.2	1115.2	0.5663	0.9595	1.5258
251	401.4	1.839	•544	375.2	1200.7	825.5	740.8	1115.2	.5668	.9587	1.5255
252	401.8	1.832	.546	375.6	1200.7	825.1	740.5	1115.2	.5672	.9579	1.5251
253	402.1	1.825	.548	376.0	1200.7	824.8	740.1	1115.2	.5676	.9572	1.5248
254	402.5	1.818	.550	376.4	1200.8	824.4	739.8	1115.3	.5680	.9564	1.5244
255	402.9	1.811	0.552	376.7	1 200.8	824.1	739.5	1115.3	0.5685	0.9556	1.5241
256	403.2	1.804	.554	377.1	1 200.8	823.7	739.1	1115.3	.5689	.9548	1.5237
257	403.5	1.798	.556	377.5	1200.9	823.4	738.8	1115.3	.5693	.9540	1.5233
258	403.9	1.791	.558	377.8	1200.9	823.1	738.4	1115.3	.5697	·9533	1.5230
259	404.2	1.784	.561	378.2	1200.9	822.7	738.1	1115.4	.5702	.9525	1.5227
260	404.5	1.777	0.563	378.6	1201.0	822.4	737.7	1115.4	0.5706	0.9517	1.5223
261	404.9	1.771	.565	378.9	1201.0	822.1	737.4	1115.4	.5710	.9510	1.5220
262	405.2	1.764	.567	379.3	1201.0	821.7	737.1	1115.4	.5714	.9502	1.5216
263	405.6	1.758	.569	379.7	1201.0	821.4	736.7	1115.5	.5718	·9494	1.5213
264	405.9	1.751	.571	380.0	1201.1	821.0	736.4	1115.5	.5722	.9487	1.5209
265	406.2	1.745	0.573	380.4	1201.1	820.7	736.0	1115.5	0.5727	0.9479	1.5206
266	406.6	1.738	·575	380.7	1201.1	820.4	735.7	1115.5	.573I	.9472	1.5202
267	406.9	1.732	•577	381.1	1201.1	820.0	735.4	1115.5	·5735	.9464	1.5199
268	407.2	1.720	.580	381.5	1201.2	819.7	735.0	1115.6	·5739	·9457	1.5196
269	407.6	1.720	.582	381.8	1201.2	819.4	734.7	1115.6	•5743	.9449	1.5192
270	407.9	1.713	0.584	382.2	1201.2	819.1	734.4	1115.6	0.5747	0.9442	1.5189
271	408.2	1.707	.586	382.5	1201.3	818.7	734.0	1115.6	.5751	.9434	1.5185
272	408.6	1.701	.588	382.9	1201.3	818.4	733.7	1115.6	.5755	.9427	1.5182
273	408.9	1.695	.590	383.2	1201.3	818.1	733.4	1115.7	.5759	.9420	1.5179
274	409.2	1.689	.592	383.6	1201.3	817.7	733.0	1115.7	.5763	.9412	1.5175
275	409.6	1.683	0.594	383.9	1201.4	817.4	732.7	1115.7	0.5767	0.9405	1.5172
276	409.9	1.677	.596	384.3	1201.4	817.1	732.4	1115.7	.5771	.9398	1.5169
277	410.2	1.671	.598	384.6	1201.4	816.8	732.1	1115.7	·5775	.9390	1.5165
278	410.5	1.665	.601	385.0	1201.4	816.4	731.7	1115.7	.5779	.9383	1.5162
279	410.9	1.660	.603	385.3	1201.5	816.1	731.4	1115.7	.5783	.9376	1.5159
280	411.2	1.654	0.605	385.7	1201.5	815.8	731.1	1115.8	0.5787	0.9369	1.5156
281	411.5	1.648	.607	386.0	1201.5	815.5	730.7	1115.8	·5791	.9361	1.5152
282	411.8	1.642	.609	386.4	1201.5	815.2	730.4	1115.8	•5795	·9354	1.5149
283 284	412.1 412.5	1.637 1.631	.611 .613	386.7 387.1	1201.5 1201.6	814.8 814.5	730.1 729.8	1115.8 1115.8	·5799 .5803	·9347 .9340	1.5146
285	412.8	1.625	0.615	387.4	1201.6	814.2	729.5	1115.8	0.5806	0.9333	1.5139
286	413.1	1.620	.617	387.7	1201.6	813.9	729.1	1115.9	.5810	.9326	1.5136
287	413.4	1.614	.620	388.1	1201.6	813.5	728.8	1115.9	.5814	.9319	1.5133
288	413.7	1.609	.622	388.4	1201.6	813.2	728.5	1115.9	.5818	.9312	1.5130
289	414.1	1.603	.624	388.8	1201.7	812.9	728.2	1115.9	.5822	.9305	1.5127

Pres-					ontent in		heat in			Entropy	
sure, lb. per	Temp., ° F.	Volume, cu. ft. per lb.	Weight, 1b per cu. ft.		t.u.		u.	Energy in B.t.u.		1	
sq. in.				of liquid	of vapor	of vapor- ization	Internal		of liquid	of vapor- ization	of vapor
p	t	v"	1/7"	i'	i"	r	ρ	u"	s'	r/T	s"
290	414.4	1.598	0.626	389.1	1201.7	812.6	727.9	1115.9	0.5826	0.9298	1.5123
291	414.7	1.592	.628	389.4	1201.7	812.3	727.5	1115.9	.5829	.9291	1.5120
292 293	415.0	1.587 1.582	.630 .632	389.8 390.1	1201.7	811.6	727.2	1115.9	.5833	.9284	1.5117 1.5114
294	415.6	1.576	.634	390.5	1201.8	811.3	726.6	1116.0	.5841	.9270	1.5111
295	415.9	1.571	0.636	390.8	1201.8	811.0	726.3	1116.0	0.5845	0.9263	1.5108
296	416.2	1.566	.638	391.1	1201.8	810.7	725.9	1116.0 1116.0	.5848	.9256	1.5105
297 298	416.5	1.561 1.556	.641 .643	391.4 391.8	1201.8	810.4 810.1	725.6	1110.0	.5852 .5856	·9249 ·9243	1.5102
299	417.2	1.551	.645	392.1	1201.9	809.8	725.0	1116.0	.5860	.9236	1.5095
300	417.5	1.545	0.647	392.4	1201.9	809.4	724.7	1116.0	0.5863	0.9229	1.5092
305	419.0	1.520	.658	394.1	1202.0	807.9	723.I	1116.1	.5882	.9195	1.5077
310 315	420.5	1.496 1.473	.668 .679	395·7 397·3	I 202.0 I 202.I	806.4	721.6 720.1	1116.2	.5900	.9162	1.5062
320	423.4	1.475	.690	398.9	1202.2	803.3	718.5	1116.3	.5935	.9097	1.5032
325	424.9	1.428	0.700	400.4	1202.2	801.8	717.0	1116.3	0.5953	0.9065	1.5018
330	426.3	1.407	.711	402.0	1202.3	800.3	715.6	1116.3	.5970	.9034	1.5004
335	427.7 429.1	1.386 1.366	.721 .732	403.5	1202.3 1202.4	798.9	714.1 712.6	1116.4	.5987	.9003	1.4990
340 345	429.1	1.346	•743	405.0	1202.4	797.4	711.2	1116.4	.6020	.8942	1.4962
350	431.9	1.327	0.753	408.0	1202.5	794.5	709.7	1116.4	0.6036	0.8912	1.4949
355	433.2	1.309	.764	409.4	1202.5	793.1	708.3	1116.5	.6052	.8883	1.4935
360 365	434.6	1.291	·775 .785	410.9	1202.5	791.6	706.9	1116.5	.6084	.8854	I.4922 I.4909
370	435.9 437.2	1.273 1.256	.796	412.3	1202.5	788.8	705.5 704.1	1110.5	.6100	.8796	1.4896
375	438.5	1.239	0.807	415.1	1202.6	787.5	702.7	1116.5	0.6115	0.8768	1.4884
380 385	439.8	1.223	.817 .828	416.5	1202.6 1202.6	786.1	701.4	1116.5	.6130 .6146	.8741	1.4871 1.4859
305	441.0 442.3	1.207 1.192	.839	417.9	1202.6	783.3	698.7	1110.5	.6140	.8686	1.4847
395	443.5	1.177	.850	420.6	1202.6	781.9	697.3	1116.5	.6175	.8659	1.4834
400	444.8	1.162	0.860	422.0	1202.5	780.6	695.9	1116.5	0.6190	0.8631	1.4821
410	447.2	1.134	.882	424.6	1202.5	777.9	693.3	1116.4	.6219	.8578	1.4797
420	449.6	1.107 1.081	.903	427.2	1202.4	775.2	690.7 688.1	1116.3	.6247	.8526	1.4773 1.4750
430 440	451.9 454.2	1.056	.925 .947	429.8 432.3	1202.4 1202.3	772.6	685.6	1110.3	.6302	.8426	1.4728
450	456.5	1.033	0.968	434.8	1202.2	767.4	683.1	1116.2	0.6329	0.8377	1.4706
460	458.7	1.010	0.990	437.2	1202.1	764.9	680.6	1116.1	.6355	.8330	1.4685
470 480	460.9 463.1	0.988 .968	1.012 1.033	439.6	1202.0	762.4	678.1 675.6	1116.0	.6381	.8283 .8237	1.4664
490	465.2	.948	1.055	442.0	1201.9	759.9 757.5	673.3	1115.9	.6431	.8191	1.4622
500	467.2	0.928	1.077	446.6	1201.7	755.0	670.9	1115.7	0.6455	0.8146	1.4601
520	471.3	.892	1.121	451.1	1201.3	750.2	666.2	1115.4	.6503	.8059	1.4562
540 560	475·3 479.1	.858 .827	1.165	455.5 459.8	1201.0	745.5	661.7 657.2	1115.1 1114.8	.6549 .6594	·7975 .7893	1.4524 1.4487
580	479.1	.798	1.254	459.8	1200.2	736.3	652.8	1114.6	.6637	.7813	1.4450
600	486.5	0.770	1.30	468.0	1199.8	731.8	648.5	1114.3	0.6679	0.7735	1.4414
650	495.2	.708	1.41	477:8	1198.7	720.9	638.0	1113.4	.6780	.7550	1.4330
700	503.4	.656	1.52	487.1	1197.4	710.3	627.9	1112.3	.6874	.7376	1.4250
750 800	511.1 518.5	.610 .570	1.64 1.76	495.9 504.3	1195.9 1194.4	700.0 690.1	618.2 608.8	1111.2 1110.0	.6963	.7212 .7056	1.4175 1.4104
850	525.5	0.534	1.87	512.5	1192.8	680.4	599.7	1108.8	0.7128	0.6907	1.4035
900	532.3	.502	1.99	520.3	1191.1	670.8	590.8	1107.5	.7205	.6764	1.3969
1000	544.9	.447	2.24	535.2	1187.6	652.4	573.6	1104.7	•7349	.6496	1.3845
1100 1200	556.6	.403	2.48	549.I 562.3	1183.8	634.7 617.6	557.3 541.8	1101.8 1098.8	.7482	.6247	1.3729 1.3622
	5-1-1	.304	/4	5		0-7.5	541.0		1001		1.0011
				1		-					

TABLE 2

PROPERTIES OF SATURATED STEAM

TEMPERATURES

Temp	Pres	sure	Volume,	Weight,	Heat c in E	ontent I.t.u.	Laten in B		Energy		Entropy	1.3
°F.	Lb. per sq. in.	In. of mercury	cu. ft. per lb.	lb. per cu. ft.	of liquid	of vapor	of vapor- ization	Inter- nal	in B.t.u.	of liquid	of vapor- ization	of vapor
t	р	_	▼″	I/V"	i'ay	i″	r	ρ	u″	s'	r/T	s"
32 33 34	0.0887 .0923 .0961	0.1806 .1880 .1957	3296 3173 3054	0.000304 .000315 .000327		1073.0 1073.5 1074.0	1072.5	1018.9 1018.2 1017.6	1018.9 1019.2 1019.6	0.0 .0021 .0041	2.1826 2.1771 2.1717	2.1826 2.1792 2.1758
35 36 37 38 39	0.1000 .1041 .1083 .1126 .1171	0.2036 .2119 .2204 .2292 .2384	2941 2832 2728 2628 2533	0.000340 .000353 .000367 .000381 .000395	4.03 5.04 6.04	1074.4 1074.9 1075.4 1075.9 1076.3	1070.9 1070.4 1069.8	1017.0 1016.3 1015.7 1015.0 1014.4	1020.0 1020.3 1020.7 1021.1 1021.4	0.0062 .0082 .0102 .0122 .0143	2.1608	2.1690
40 41 42 43 44	0.1217 .1265 .1315 .1367 .1420	0.2478 .2576 .2678 .2783	2441 2352 2268	0.000410 .000425 .000441 .000457 .000474	8.05 9.06 10.06 11.06	1076.8 1077.4 1077.8 1078.2 1078.7	1068.8 1068.3 1067.7 1067.2	1013.7 1013.1 1012.5 1011.8 1011.2	1021.8 1022.2 1022.5 1022.9	0.0163 .0183 .0203 .0223	2.1392 2.1339 2.1286 2.1233	2.1555 2.1522 2.1489
45 46 47 48 49	0.1475 .1532 .1591 .1652 .1715	.3120 .3240 .3364	1962 1893 1827	0.000492 .000510 .000528 .000547 .000567	14.07 15.07 16.07	1079.2 1079.6 1080.1 1080.6 1081.1	1065.6 1065.0 1064.5	1010.5 1009.9 1009.3 1008.6 1008.0	1024.0 1024.3 1024.7	.0302 .0322	2.1076 2.1024	2.1326 2.1294
50 51 52 53 54	0.1780 .1848 .1918 .1989 .2063	.3761 .3903 .4049	1643 1587 1532	0.000588 .000609 .000631 .000653 .000676	19.08 20.08 21.08	1081.5 1082.0 1082.5 1082.9 1083.4	1062.9 1062.4 1061.9	1007.3 1006.7 1006.1 1005.4 1004.8	1025.8 1026.1 1026.5		2.0817 2.0766	2.1198 2.1167
55 56 57 58 59	0.2140 .2219 .2300 .2384 .2471	.4517 .4684 .4855	1382 1335 1290	0.000699 .000724 .000749 .000775 .000802	24.08 25.08 26.08	1083.9 1084.4 1084.8 1085.3 1085.8	1060.3 1059.7 1059.2	1004.1 1003.5 1002.9 1002.2 1001.6	1027.6 1028.0 1028.3	.0478 .0498 .0517		2.1042 2.1012 2.0981
60 61 62 63 64	0.2561 .2654 .2749 .2848 .2949	.5403 .5597 .5798	1166 1128 1091	0.000829 .000858 .000887 .000917 .000948	29.08 30.08 31.08	1086.7	1057.1	1000.3 999.7 999.0	1029.4 1029.7 1030.1	.0575 .0594 .0613	2.0315 2.0266 2.0217	2.0830
65 66 67 68 69	0.3054 .3162 .3273 .3388 .3506	.6438 .6664 .6898	988 956 926	0.000979 .001012 .001046 .001080 .001116	34.08 35.08 36.08	1089.0 1089.5 1089.9	1054.4		1031.2	.0671 .0690	2.007I 2.0023	2.0742 2.0712
70 71 72 73 74	0.3628 .3754 .3883 .4016 .4153	.7642 .7906 .8177	840 814 788	0.001153 .001190 .001229 .001269 .001310	39.07 40.07 41.07	1092.3	1052.8 1052.2 1051.7 1051.2 1050.6	993.9 993.2 992.6	1032.9 1033.3	.0784	1.9879 1.9831 1.9784 1.9737 1.9690	2.0568
75 76 77 78 79	0.4295 .4440 .4590 .4744 .4903	.9040 .9345 .9658	717 695 673	0.001352 .001395 .001439 .001485 .001532	44.06 45.06 46.06	1093.6 1094.1 1094.6	1050.1 1049.6 1049.0 1048.5 1048.0	990.6 990.0 989.3	1034.7 1035.1	.0859 .0877 .0896	1.9643 1.9596 1.9550 1.9503 1.9457	2.0455 2.0427 2.0399

				1								
Temp., ° F.	Pres	sure	Volume, cu. ft.	Weight, 1b. per	Heat of in E	ontent B.t.u.	Laten in B	t heat .t.u.	Energy		Entropy	
• F.	Lb. per sq. in.	In. of mercury	per lb.	cu. ft.	of liquid	of vapor	of vapor- ization	Inter- nal	B.t.u.	of liquid	of vapor- ization	of vapor
t	р	-	۳"	I/V"	i'	i"	r	ρ	u"	s'	r/T	s ″
80	0.507	1.031	632.9	0.001580	48.05		1047.4	988.a		0.0933		2.0344
81	.523	1.066	613.7	.001629	49.05		1046.9	987.4	1036.5	.0951	1.9365	2.0316
82	.541	I.IOI	595.2	.001680	50.05	1096.4	1046.3	986.8	1036.8	.0970	1.9319	2.0289
83	.558	1.137	577.4	.001732	51.05	1096.9	1045.8	986.1	1037.2	.0988	1.9274	2.0262
84	.577	1.174	560.0	.001786	52.04	1097.3	1045.3	985.5	1037.5	.1007	1.9228	2.0235
85	0.596	1.212	543.3	0.001841	53.04	1097.8	1044.7	984.8	1037.9	0.1025	1.9183	2.0208
86	.615	1.251	527.2	.001897	54.04	1098.2	1044.2	984.2	1038.2	.1043	1.9138	2.0181
87	.635	1.292	511.6	.001955	55.04	1098.7	1043.6	983.5	1038.6		1.9093	2.0155
88	.655	1.334	496.6	.002014	56.03		1043.1	982.9	1038.9		1.9048	2.0128
89	.676	1.377	482.0	.002075	57.03		1042.6	982.2	1039.3		1.9004	2.0102
90	0.698	1.421	467.9	0.002137	58.03		1042.0	981.6	1039.6	0.1116	202	2.0075
91	.720	1.466	454.3	.002201	59.03		1041.5	980.9	1040.0		1.8915	2.0049
92	.743	1.512	441.2	.002267	60.02		1041.0	980.3	1040.3		1.8871	2.0023
93	.766	1.560	428.4	.002334	61.02		1040.4	979.6	1040.7		1.8827	1.9997
94	.790	1.609	416.1	.002403	62.02	1101.9	1039.9	979.0	1041.0	.1188	1.8783	1.9972
95	0.815	1.659	404.2	0.002474	63.01	1102.2	1039.3	978.3	1041.3	0.1206	1.8740	1.9946
96	.840	1.710	392.7	.002547	64.01		1038.8	977.7	1041.7		1.8696	1.9920
97	.866	1.763	381.6	.002621	65.01	1	1038.2	977.0	1042.0		1.8653	1.9895
		1.818	370.8	.002697	66.01		1037.7	976.4	1042.4		1.8610	1.9870
98	.893										1.8566	1.9844
99	.920	1.874	360.4	.002775	67.00	1104.1	1037.1	975.7	1042.7	.12/0	1.0500	1.9044
100	0.949	1.931	350.3	0.002855	68.00	1104.6	1036.6	975.1	1043.1	0.1296	1.8523	1.9819
IOI	0.978	1.990	340.5	.002937	69.00	1105.0	1036.0	974.4	1043.4	.1313	1.8481	1.9794
102	1.008	2.051	331.1	.003021	69.99	1105.5	1035.5	973.8	1043.8	.1331	1.8438	1.9769
103	1.038	2.113	321.9	.003107	70.99		1034.9		1044.1		1.8396	1.9745
104	1.069	2.176	313.0	.003195	71.99		1034.4	972.4	1044.4		1.8353	1.9720
		/-	5-5.0		1	110014		57-14			0000	51
105	1.101	2.241	304.4	0.003285	72.98	1106.8	1033.9	971.8	1044.8	0.1384	1.8311	1.9695
106	1.134	2.308	296.1	.003377	73.99		1033.3	971.1	1045.1		1.8269	1.9671
107	1.168	2.377	288.1	.003472	74.98		1032.8	970.5	1045.5		1.8227	1.9647
108	1.202	2.448	280.3	.003568			1032.2	969.8	1045.8		1.8185	1.9623
100	1.238	2.440	272.7	.003508	75.97		1032.2	969.2	1045.8		1.8144	1.9599
	1.230	2.320		.003007	10.97	1100.0	1031.7					
110	I.274	2.594	265.4	0.003769	77.97	1109.1	1031.1	968.5	1046.5		1.8102	1.9575
III	1.311	2.670	258.2	.003873	78.96	1109.5	1030.6	967.9	1046.8		1.8061	1.9551
II2	I.350	2.748	251.3	.003979	79.96	1110.0	1030.0	967.2	1047.2	.1507	1.8020	1.9527
II3	1.389	2.827	244.7	.004087	80.96	1110.4	1029.5	966.5	1047.5	.1525	1.7979	1.9503
114	1.429	2.909	238.2	.004198	81.96		1028.9	965.9	1047.9	.1542	1.7938	1.9480
115	1.470	2.993	231.9	0.004312	82.95	IIII.2	1028.4	965.2	1048.2	0.1560	1.7897	1.9456
116	1.512	3.079	225.8	.004428	83.95		1027.8	964.6	1048.5		1.7856	1.9433
117	1.555	3.167	219.9	.004547	84.95		1027.3	963.9	1048.9		1.7815	1.9409
118	1.600		219.9	.004669	85.94		1027.3	963.3	1040.9		1.7775	1.9386
119	1.645	3.257	208.6	.004009	86.94		1026.1	962.6	1049.2		1.7735	1.9363
						1113.1	1020.1	-	1049.5			
120	1.692	3.444	203.2	0.00492	87.94		1025.6	961.9	1049.9		1.7695	1.9341
121	1.739	3.541	198.0	.00505	88.93	1114.0	1025.0	961.3	1050.2	.1663	1.7655	1.9318
122	1.788	3.640	192.9	.00518	89.93		1024.5	960.6	1050.5		1.7615	1.9295
123	1.838	3.741	188.0	.00532	90.93		1023.9	959.9	1050.9	.1697	1.7575	1.9272
124	1.889	3.845	183.2	.00546	91.93		1023.4	959.3	1051.2		1.7535	1.9250
125	1.941	3.952	178.6	0.00560	92.92	1115.7	1022.8	958.6	1051.5	0.1732	1.7496	1.9227
126	1.995	4.061	174.1	.00574	93.92		1022.2	957.9			1.7456	1.9205
127	2.049	4.172	169.7	.00589	94.92		1021.7	957.3	1052.2		1.7417	1.9183
128	2.105	4.286	165.5	.00509	94.92		1021.1	957.5	1 -		1.7378	1.9161
129	2.163	4.403	161.3	.00620	95.92	1 .	1021.1	950.0	1052.5		1.7339	1.9139
130	2.221	4.523	157.3	0.00636	97.91		1020.0		1053.2		1.7300	1.9117
131	2.281	4.645	153.4	.00652	98.91		1019.5	954.6	1053.5		1.7261	1.9095
132	2.343	4.770	149.7	.00668	99.91	1118.8	1018.9	954.0	1053.9	.1850	1.7223	1.9073
133	2.406	4.898	146.0	.00685	100.91	1119.2	1018.3	953.3	1054.2	.1867	1.7184	1.9051
134	2.470	5.029	142.4	.00702	101.90		1017.8	952.6	1054.5		1.7146	1.9030
		1	I			1		1	1	1		1
					-							

		= 3			Heat c	ontent	Laten	t heat		1.2.11		
Temp.,	Pres	sure	Volume, cu. ft.	Weight, 1b. per	in B		in B		Energy		Entropy	
° F.	Lb. per sq. in.	In. of mercury	per lb.	cu. ft.	of liquid	of vapor	of vapor- ization	Inter- nal	B.t.u.	of liquid	of vapor- ization	of vapor
t	р	-	۷"	I/V"	i'	· i*	r	ρ	u"	s'	r/T	s"
135	2.536	5.16	138.9	0.00720	102.90	1120.1	1017.2	952.0	1054.9	0.1901	1.7107	1.9008
136	2.530	5.10	135.6	.00738	102.90	1120.1	1016.6	951.3	1054.9	.1918	1.7069	1.8987
130	2.672	5.44	132.3	.00756	103.90	1121.0	1016.1	950.6	1055.5	.1935	1.7031	1.8966
137	2.742	5.58	129.1	.00775	105.90	1121.4	1015.5	950.0	1055.9	.1935	1.6993	1.8944
139	2.814	5.73	126.0	.00794	106.90	1121.8	1014.9	949.3	1055.2	.1951	1.6955	1.8923
140	2.887	5.88	123.0	0.00813	107.89	1122.3	1014.4	948.6	1056.5	0.1985	1.6918	1.8902
141	2.962	6.03	120.1	.00833	108.89	1122.7	1013.8	948.0	1056.8	.2001	1.6880	1.8881
142	3.039	6.19	117.2	.00853		1123.1	1013.3	947.3	1057.2	.2018	1.6842	1.8860
143	3.118	6.35	114.5	.00874	110.89	1123.6	1012.7	946.6	1057.5	.2034	1.6805	1.8839
144	3.198	6.51	111.8	.00895	111.89	1124.0	1012.1	945.9	1057.8	.2051	1.6768	1.8819
145	3.280	6.68	109.2	0.00916	112.89	1124.4	1011.5	945.3	1058.1	0.2067	1.6731	1.8798
146	3.363	6.85	106.6	.00938	113.89	1124.9	1011.0	944.6	1058.5	.2084	1.6694	1.8778
147	3.449	7.02	104.1	.00960	114.89		1010.4	943.9	1058.8	.2100	1.6657	1.8757
148	3.536	7.20	101.7	.00983	115.88	1125.7	1009.8	943.3	1059.1	.2117	1.6620	1.8737
149	3.625	7.38	99.4	.01006	116.88	1126.1	1009.3	942.6	1059.5	.2133	1.6583	1.8717
150	3.716	7.57	97.1	0.01030	117.88	1126.6	1008.7	941.9	1059.8	0.2150	1.6547	1.8697
151	3.809	7.76	94.9	.01054	118.88	1127.0	1008.1	941.2	1060.1	.2166	1.6510	1.8676
152	3.904	7.95	92.7	.01079	119.88	1127.4	1007.5	940.6	1060.4	.2182	1.6474	1.8656
153	4.001	8.15	90.6	.01104	120.88	1127.8	1007.0	939.9	1060.7	.2199	1.6438	1.8636
154	4.100	8.35	88.5	.01130	121.88	1128.3	1006.4	939.2	1061.1	.2215	1.6402	1.8617
155	4.201	8.55	86.5	0.01156	122.88	1128.7	1005.8	938.5	1061.4	0.2231	1.6366	1.8597
156	4.305	8.76	84.6	.01182	123.88	1129.1	1005.2	937.8	1061.7	.2248	1.6330	1.8577
157	4.410	8.98	82.7	.01209	124.88	1129.6	1004.7	937.2	1062.0	.2264	1.6294	1.8558
158	4.518	9.20	80.8	.01237	125.88	1130.0	1004.1	936.5	1062.4	.2280	1.6258	1.8538
159	4.627	9.42	79.0	.01265	126.88	1130.4	1003.5	935.8	1062.7	.2296	1.6222	1.8518
160	4.739	9.65	77.30	0.01294	127.88	1130.8	1002.9	935.1	1063.0	0.2312	1.6187	1.8499
161	4.853	9.88	75.59	.01323	128.87	1131.2	1002.4	934.4	1063.3	.2328	1.6151	1.8480
162	4.970	10.12	73.93	.01353	1 29.87	1131.6	1001.8	933.8	1063.6	.2344	1.6116	
163	5.089	10.36	72.31	.01383	130.87	1132.1	1001.2	1 000	1063.9	.2360	1.6081	
164	5.210	10.61	70.73	.01414	131.87	1132.5	1000.6	932.4	1064.3	.2376	1.6046	1.8422
165	5.334	10.86	69.19	0.01445	132.88	1132.9	1000.0	931.7	1064.6	0.2392	1.6011	
166	5.460	11.12	67.69	.01477	133.88	1133.3	999.4		1064.9	.2408	1.5976	1.8384
167	5.589	11.38	66.23	.01510	134.88	1133.7	998.9	930.3	1065.2	.2424	1.5941	1.8365
168	5.720	11.65	64.81	.01543	135.88		998.3		1065.5	.2440	1.5906	1.8347
169	5.854	11.92	63.42	.01577	136.88	1134.6	997.7	929.0	1065.8	.2456	1.5872	1.8328
170	5.990	12.20	62.07	0.01611	137.88	1135.0	997.1		1066.1	0.2472		
171	6.13	12.48	60.75	.01646	138.88	1135.4	996.5		1066.5	.2488		1.8291
172	6.27	12.77	59.46	.01682	139.88	1135.8	995.9		1066.8	.2504		1.8272
173	6.42	13.06	58.20	.01718	140.88	1136.2	995.4		1067.1	.2520		1.8254
174	6.56	13.36	56.98	.01755	141.88	1136.6	994.8	925.5	1067.4	.2536	1.5700	1.8236
175	6.71	13.67	55.78	0.01793		1137.1					1.5666	
176	6.87	13.98	54.62	.01831	143.89	1137.5	993.6			.2567	1.5632	1.8199
177	7.02	14.30	53.48	.01870		1137.9	993.0		1068.3	.2583	1.5598	1.8181
178	7.18	14.62	52.37	.01909	145.89	1138.3	992.4	922.8	1068.6	.2599		
179	7.34	14.95	51.29	.01950	146.89	1138.7	991.8	922.1	1069.0	.2614	1.5531	1.8145
180	7.51	15.29	,50.24	0.01991	147.89	1139.1	991.2			0.2630		
181	7.68	15.63	49.21	.02032		1139.5	990.6				1.5464	
182	7.85	15.98	48.20	.02075		1139.9	1 00		1069.9		1.5430	
183	8.02	16.34	47.22	.02118	150.90	1140.3			1070.2	.2677		
184.	8.20	16.70	46.26	.02162	151.90	1140.7	988.8	918.6	1070.5	.2693	1.5364	1.8057
185	8.38	17.07	45.33	0.02206	152.90	1141.1	988.2		1070.8			
186	8.57	17.44	44.41	.02252		1141.5				.2724		
187	8.76	17.82	43.52	.02298		1141.9			1071.4	.2739		
188	8.95	18.21	42.65	.02345	155.91				1071.7			
189	9.14	18.61	41.80	.02392	156.91	1142.7	985.8	915.1	1072.0	.2770	1.5199	1.7969
	1		1	1		1				1 /	1	I

				1	1		1		1			
Temp	Pres	sure	Volume,	Weight,		content B.t.u.	Late in B	nt heat	Energy		Entropy	
Temp., °F.	Lb. per	In. of	cu. ft. per lb.	lb. per cu. ft.	of	of	of vapor-	Inter-	in B.t.u.	of	of vapor-	of
	sq. in.	Mercury			liquid	vapor	ization	nal		liquid	ization	vapor
t	p	-	▼″	I/V"	i'	i″	r	ρ	u"	s'	r/T	8″
190	9.34	19.01	40.97	0.02441	157.91	1143.1	985.2	914.4	1072.3	0.2786	1.5167	1.7952
191	9.54	19.42	40.16	.02490	158.92	1143.5	984.6	913.7	1072.6	.2801	1.5134	1.7935
192	9.75	19.84	39.37	.02540	159.92	1143.9	984.0	913.0	1072.9	.2816	1.5102	1.7918
193	9.96	20.27	38.60	.02591	160.92	1144.3	983.4	912.3	1073.2	.2832	1.5069	1.7901
194	10.17	20.70	37.84	.02643	161.92	1144.7	982.8	911.6	1073.5	.2847	1.5037	1.7884
195	10.38	21.14	37.10	0.02696	162.93	1145.1	982.2	910.9	1073.8	0.2863	1.5005	1.7867
196	10.60	21.59	36.38	.02749	163.93	1145.5	981.6	910.2	1074.1	.2878	1.4973	1.7850
197	10.83	22.05	35.68	.02803	164.93	1145.9	981.0	909.5	1074.4	.2893	1.4941	1.7834
198	11.06	22.51	34.99	.02859	165.94	1146.3	980.4	908.8	1074.7	.2908	1.4909	1.7817
199	11.29	22.98	34.31	.02915	166.94	1146.7	979.8	908.1	1075.0	.2924	1.4877	1.7800
200					-6-04						0	
200	11.53	23.46	33.65	0.02972	167.95	1147.1	979.2	907.4	1075.3	0.2939	1.4845	1.7784
201	II.77 12.01	23.95	33.01	.03030	168.95	1147.5	978.6	906.7	1075.6	.2954	1.4813	1.7767
202	12.01	24.45	32.38	.03088	169.95	1147.9	977.9	906.0	1075.9	.2969	1.4782	1.7751
203	12.20	24.96	31.76	.03148	170.96	1148.3	977.3	905.3	1076.2	.2984	1.4750	1.7734
204	12.31	25.48	31.16	.03209	1/1.90	1148.7	976.7	904.5	1076.5	.3000	1.4718	1.7/10
205	12.77	26.00	30.58	0.03271	172.97	1149.1	976.1	903.8	1076.8	0.3015	1.4687	1.7702
206	13.03	26.53	30.00	.03333	173.97	1149.4	975.5	903.I	1077.1	.3030	1.4656	1.7685
207	13.30	27.07	29.44	.03397	174.98	1149.8	974.8	902.4	1077.3	.3045	1.4624	1.7669
208	13.57	27.62	28.89	.03461	175.98	1150.2	974.2	901.7	1077.6	.3060	1.4593	1.7653
209	13.84	28.18	28.35	.03527	176.99	1150.6	973.6	901.0	1077.9	.3075	1.4562	1.7637
210	14.12	28.75	27.83	0.03594	177.99	1151.0	973.0	900.3	1078.2	0.3090	1.4531	1.7621
211	14.41	29.33	27.32	.03661	179.0	1151.4	972.4	899.6	1078.5	.3105	1.4500	1.7605
212	14.70	29.92	26.81	.03730	180.0	1151.7	971.7	898.8	1078.8	.3120	1.4469	1.7589
213	14.99		26.32	.03800	181.0	1152.1	971.1	898.1	1079.1	.3135	1.4438	1.7573
214	15.29		25.84	.03870	182.0	1152.5	970.5	897.4	1079.4	.3150	1.4408	1.7558
215	15.59		05.05		183.0	1152.0	969.9	896.7	1079.6	0.3165	T 4250	1.7542
216	15.90	•••••	25.37	0.03942	184.0	1152.9 1153.3	969.3	896.0	1079.9		I.4377 I.4347	1.7526
217	16.22		24.91 24.46	.04013	185.0	1153.6	968.6	895.3	10/9.9	.3179	1.4316	1.7510
218	16.54		24.40	.04089	186.0	1153.0	968.0	894.5	1080.5	.3194	1.4286	1.7495
219	16.86		23.58	.04104	187.0	1154.4	967.4	893.8	1080.8	.3229	1.4255	1.7479
220					00			0	0			
221	17.19	• • • • •	23.16	0.04318	188.0	1154.8	966.8	893.1	1081.1	0.3239	1.4225	1.7464
	17.52		22.75	.04396	189.0	1155.2	966.1	892.4	1081.3	.3254	1.4195	1.7449
222	17.86	• • • • •	22.35	.04476	190.1	1155.5	965.5	891.7	1081.6	.3268	1.4165	1.7433
223 224	18.21	••••	21.95	.04557	191.1	1155.9	964.9	890.9	1081.9	.3283	1.4135	1.7418
224	10.50		21.56	.04639	192.1	1156.3	964.2	890.2	1082.2	.3298	1.4105	1.7403
225	18.92		21.18	0.04722	193.1	1156.6	963.6	889.5	1082.5	0.3313	1.4075	1.7388
226	19.28		20.81	.04807	194.1	1157.0	962.9	888.7	1082.7	.3327	1.4045	1.7372
227	19.65		. 20.44	.04892	195.1	1157.4	962.3	888.0	1083.0		1.4015	1.7357
228	20.02		20.08	.04979	196.1	1157.7	961.6	887.3	1083.3	.3357	1.3986	1.7342
229	20.40	•••••	19.73	.05067	197.1	1158.1	961.0	886.5	1083.6		1.3956	1.7327
230	20.78		19.39	0.05156	198.1	1158.5	960.4	885.8	1083.8	0.3386	1.3026	1.7312
231	21.17		19.39	.05247	199.1	1158.8	959.7	885.1	1084.1	.3400	1.3897	1.7297
232	21.57		18.73	.05339	200.I	1159.2	959.1	884.4			1.3868	1.7282
233	21.97		18.41	.05432	201.1	1159.6	958.5	883.6	1084.7		1.3838	1.7268
234	22.38	•••••	18.10	.05527	202.1	1159.9	957.8	882.9	1084.9		1.3809	1.7253
235	22.80		10 00	0.0760	202 -	1160.0	0.55	880 -	108-	0 2 4 7 9	x 2580	T 7228
236	22.00	••••	17.79 17.49	0.0562	203.I 204.I	1160.3 1160.6	957.2 956.5	882.1 881.4	1085.2	0.3458	1.3780	1.7238 1.7224
237	23.65		17.19	.05/2	204.1	1161.0	950.5	880.7	1085.7		1.3721	1.7209
238	23.03		16.90	.0502	205.2	1161.4		879.9	1085.0		1.3692	1.7194
239	24.53		16.61	.0592	200.2	1161.4	955.2 954.5	879.2	1086.3		1.3664	1.7180
240									00			
	24.97		16.33	0.0612	208.2	1162.1	953.9	878.4		0.3531		1.7165
241	25.43	• • • • •	16.06	.0623	209.2	1162.4	953.2	877.7			1.3606	1.7151
242	25.89	•••••	15.79	.0633	210.2	1162.8	952.6	876.9			1.3577	1.7137
243	26.36		15.53	.0644	211.2	1163.1	951.9	876.2			1.3548	1.7122
244	26.83		15.27	.0655	212.2	1163.5	951.3	875.5	1087.6	.3588	1.3520	1.7108
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					content	Laten	t heat			Entropy	
Temp., °F.	Pressure, 1b. per	Volume, cu. ft.	Weight, lb. per	in E	8.t.u.	in B	s.t.u.	Energy in	28.35	Encropy	
F.	sq. in.	per lb.	cu. ft.	of liquid	of vapor	of vapor- ization	Inter- nal	B.t.u.	of liquid	of vapor- ization	of vapor
t	р	ν"	I/V"	i′	i″	r	ρ	u"	s'	r/T	s"
245	27.31	15.02	0.0666	213.2	1163.8	950.6	874.7	1087.8	0.3603	1.3491	1.7094
246	27.80	14.77	.0677	214.2	1164.2	949.9	874.0	1088.1	.3617	1.3463	1.7080
247	28.30	14.53	.0688	215.2	1164.5	949.3	873.2	1088.4	.3631	1.3434	1.7065
248	28.80	14.29	.0700	216.3	1164.9	948.6	872.5	1088.6	.3645	1.3406	1.7051
249	29.31	14.06	.0711	217.3	1165.2	947.9	871.7	1088.9	.3660	1.3377	1.7037
250	29.83	13.83	0.0723	218.3	1165.5	947.3	870.9	1089.1	0.3674	1.3349	1.7023
251	30.36	13.61	.0735	219.3	1165.9	946.6	870.2	1089.4	.3688	1.3321	1.7009
252	30.89	13.39	.0747	220.3	1166.2	945.9	869.4	1089.6	.3702	1.3293	1.6995
253	31.43	13.17	.0759	221.3	1166.6	945.3	868.7	1089.9	.3717	1.3265	1.6982
254	31.98	12.96	.0772	222.3	1166.9	944.6	867.9	1090.1	.3731	1.3237	1.6968
255	32.54	12.75	0.0784	223.4	1167.2	943.9	867.2	1090.4	0.3745	1.3209	1.6954
256	33.10	12.55	.0797	224.4	1167.6	943.2	866.4	1090.7	•3759	1.3181	1.6940
257	33.67	12.35	.0810 .0823	225.4	1167.9	942.5	865.7	1090.9	•3773	1.3153	1.6926
258	34.25 34.84	12.15 11.96	.0823	226.4	1168.3	941.9 941.2	864.9 864.1	1091.2	.3787 .3801	1.3125	1.6913 1.6899
259	34.04	11.90				941.2		1091.4		1.3098	
260	35.44	11.77	0.0849	228.4	1168.9	940.5	863.4	1091.7	0.3816	1.3070	1.6885
261	36.04	11.59	.0863	229.4	1169.2	939.8	862.6	1091.9	.3830	1.3042	1.6872
262	36.66	11.41	.0877	230.4	1169.6	939.2	861.8	1092.1	.3844	1.3015	1.6858
263	37.28	11.23	.0891	231.4	1169.9	938.5	861.1 860.3	1092.4	.3858	1.2987	1.6831
264	37.91	11.05	.0905	232.5	-	937.8	800.3	1092.6	.3872	1.2960	
265	38.55	10.88	0.0919	233.5	1170.6	937.1	859.5	1092.9	0.3886	1.2932	1.6818
266	39.19	10.71	.0934	234.5	1170.9	936.4	858.8	1093.1	.3900	1.2905	1.6805
267	39.85	10.55	.0948	235.5	1171.2	935.7	858.0	1093.4	.3914	1.2878	1.6791
268 269	40.51	10.39	.0963 .0978	236.5	1171.5	935.0	857.2	1093.6	.3928	1.2850	1.6778
209	41.19	10.23	.0970	237.5	1171.9	934.3	856.5	1093.9	.3942	1.2823	1.0705
270	41.87	10.07	0.0993	238.6	1172.2	933.6	855.7	1094.1	0.3956	1.2796	1.6752
271	42.56	9.92	.1008	239.6	1172.5	932.9	854.9	1094.3	.3969	1.2769	1.6738
272	43.26	9.77	.1024	240.6	1172.8	932.2	854.1	1094.6	.3983	1.2742	1.6725
273	43.97	9.62	.1040	241.6	1173.1	931.5	853.3	1094.8	•3997	1.2715	1.6712
274	44.69	9.47	.1056	242.6	1173.5	930.8	852.6	1095.1	.4011	1.2688	1.6699
275	45.42	9.33	0.1072	243.7	1173.8	930.1	851.8	1095.3	0.4025	1.2661	1.6686
276	46.16	9.19	.1088	244.7	1174.1	929.4	851.0	1095.5	.4039	1.2634	1.6673
277	46.91	9.05	.1105	245.7	1174.4	928.7	850.2	1095.8	.4052	1.2608	1.6660
278	47.67	8.92	.1121	246.7	1174.7	928.0	849.4	1096.0	.4066	1.2581	1.6647
279	48.44	8.79	.1138	247.7	1175.0	927.3	848.7	1096.2	.4080	1.2554	1.6634
280	49.22	8.66	0.1155	248.8	1175.3	926.6	847.9	1096.5	0.4094	1.2528	1.6622
281	50.00	8.53	.1173	249.8	1175.6	925.8	847.1	1096.7	.4108	1.2501	1.6609
282	50.80	8.40	.1190	250.8	1175.9	925.1	846.3	1096.9	.4121	1.2475	1.6596
283	51.61	8.28	.1208	251.8	1176.2	924.4	845.5	1097.1	.4135	1.2448	1.6583
284	52.43	8.16	.1226	252.8	1176.5	923.7	844.7	1097.4	.4159	1.2422	1.6571
285	53.26	8.04	0.1244	253.9	1176.8	923.0	843.9	1097.6	0.4162	1.2396	1.6558
286	54.10	7.92	.1263	254.9	1177.1	922.3	843.1	1097.8	.4176	1.2369	1.6545
287	54.95	7.80	.1281	255.9	1177.4	921.5	842.3	1098.0	.4190	1.2343	1.6533
288	55.81	7.69	.1300	256.9	1177.7	920.8	841.5	1098.3	.4203	1.2317	1.6520
289	56.68	7.58	.1319	257.9	1178.0	920.1	840.7	1098.5	.4217	1.2291	1.6508
290 291	57.57 58.46	7.47 7.36	0.1339 .1358	259.0 260.0	1178.3 1178.6	919.4 918.6	839.9 839.1	1098.7	0.4230	1.2265	1.6495 1.6483
291	59.37	7.26	.1350	261.0	1178.9	918.0	838.3	1098.9	.4244	1.2230	1.6470
292	60.28	7.15	.1398	262.0	1179.2	917.9	837.5	1099.1	.4250	1.2186	1.6458
293	61.21	7.05	.1418	263.1	1179.5	916.4	836.7	1099.6	.4271	1.2160	1.6445
295	62.15	6.95	0.1439	264.1	1179.8	915.7	835.9	1099.8	0.4298	1.2135	1.6433
296	63.10	6.85	.1459	265.1	1180.1	915.0	835.1	1100.0	.4312	1.2109	1.6421
297	64.06	6.76	.1480	266.1	1180.3	914.2	834.3	1100.2	.4325	1.2083	1.6408
298	65.04	6.66	.1501	267.2	1180.6	913.5	833.5	1100.4	.4339	1.2057	1.6396
299	66.03	6.57	.1523	268.2	1180.9	912.7	832.6	1100.6	.4352	1.2032	1.6384
									1		

re, Volume,	Weight,		content 3.t.u.		nt heat B.t.u.	Energy		Entropy	
er cu. ft. h. per lb.	lb. per cu. ft.	of liquid	of vapor	of vapor- ization	Inter- nal	in B.t.u.	of liquid	of vapor- ization	of vapor
v*	I/V"	i'	i"	r	ρ	u″	s'	r/T	s"
o 6.48	0.1544	269.2	1181.2	912.0	831.8	1100.8	0.4366	1.2006	1.6372
o 6.39	.1566	270.3	1181.5	911.2	831.0	1101.0	•4379	1.1980	1.6359
I 6.30	.1588	271.3	1181.8	910.5	830.2	IIOI.2	•4393	1.1955	1.6347
1 6.21	.1611	272.3	1182.0	909.7	829.4	1101.5	.4406	1.1929	1.6335
1 6.12	.1633	273.3	1182.3	909.0	828.6	1101.7	.4420	1.1904	1.6323
2 6.04	0.1656	274.4	1182.6	908.2	827.7	1101.9	0.4433	1.1878	1.6311
3 5.96	.1679	275.4	1182.8	907.4	826.9	1102.1	.4446	1.1853	1.6299
4 5.87	.1703	276.4	1183.1	906.7	826.1	1102.3	.4460	1.1827	1.6287
5 5.79	.1726	277.5	1183.4	905.9	825.3	1102.5	·4473	1.1802	1.6275
5 5.71	.1750	278.5	1183.7	905.2	824.4	1102.7	.4487	1.1777	1.6263
7 5.63	0.1775	279.5	1183.9	904.4	823.6	1102.8	0.4500	1.1751	1.6251
8 5.56	.1799	280.5	1184.2	903.6	822.8	1103.0	.4513	1.1726	1.6239
5.48	.1824	281.6	1184.4	902.9	821.9	1103.2	.4527	1.1701	1.6228
1 5.41	.1849	282.6	1184.7	902.1	821.1	1103.4	.4540	1.1676	1.6216
3 5.34	.1874	283.6	1184.9	901.3	820.3	1103.6	•4553	1.1651	1.6204
5 5.26	0.1899	284.7	1185.2	900.5	819.4	1103.8	0.4566	1.1626	1.6192
7 5.19	.1925	285.7	1185.5	899.8	818.6	1104.0	.4580	1.1601	1.6181
5.12	.1951	286.7	1185.7	899.0	817.8	1104.2	•4593	1.1576	1.6169
5.06	.1978	287.8	1186.0	898.2	816.9	1104.4	.4606	1.1551	1.6157
4 4.99	.2005	288.8	1186.2	897.4	816.1	1104.6	.4619	1.1526	1.6146
4.922	0.2032	289.8	1186.5	896.7	815.2	1104.7	0.4633	1.1501	1.6134
4.857	.2059	290.9	1186.7	895.9	814.4	1104.9	.4646	1.1477	1.6122
2 4.793	.2086	291.9	1187.0	895.1	813.5	1105.1	.4659	1.1452	1.6111
5 4.730	.2114	292.9	1187.2	894.3	812.7	1105.3	.4672	1.1427	1.6099
3 4.668	.2142	294.0	1187.5	893.5	811.8	1105.5	.4685	1.1402	1.6088
4.607	0.2171	295.0	1187.7	892.7	811.0	1105.7	0.4698	1.1378	1.6076
5 4.547	.2199	296.0	1187.9	891.9	810.1	1105.8	.4711	1.1353	1.6065
4.487	.2228	297.1	1188.2	891.1	809.3	1106.0	.4725	1.1329	1.6053
3 4.429	.2258	298.1	1188.4	890.3	808.4	1106.2	.4738	1.1304	1.6042
5 4.372	.2287	299.2	1188.6	889.5	807.6	1106.4	.4751	1.1280	1.6030
4.316	0.2317	300.2	1188.9	888.7	806.7	1106.5	0.4764	1.1255	1.6019
4.260	.2348	301.2	1189.1	887.9	805.9	1106.7	.4777	1.1231	1.6008
4.205	.2378	302.2	1189.3	887.1	805.0	1106.9	.4790	1.1206	1.5996
4.151	.2409	303.3	1189.6	886.3	804.1	1107.0	.4803	1.1182	1.5985
3 4.098	.2440	304.3	1189.8	885.5	803.3	1107.2	.4816	1.1158	1.5974
4.046	0.2472	305.4	1190.0	884.7	802.4	1107.4	0.4829	1.1133	1.5962
3 3.994	.2504	306.4	1190.2	883.8	801.5	1107.5	.4842	1.1109	1.5951
3 3.943	.2536	307.4	1190.4	883.0	800.7	1107.7	.4855	1.1085	1.5940
3.893	.2568	308.5	1190.7	882.2	799.8	1107.9	.4868	1.1061	1.5929
4 3.844	.2601	309.5	1190.9	881.4	798.9	1108.0	.4881	1.1037	1.5918
3.796	0.2635	310.5	1191.1	880.6	798.0	1108.2	0.4894	1.1012	1.5906
3.748	.2668	311.6	1191.3	879.7	797.2	1108.3	.4907	1.0988	1.5895
2 3.701	.2702	312.6	1191.5	878.9	796.3	1108.5	.4920	1.0964	1.5884
3 3.655	.2736	313.7	1191.7	878.1	795.4	1108.6	.4933	1.0940	1.5873
4 3.609	.2771	314.7	1191.9	877.2	794.5	1108.8	.4946	1.0916	1.5862
3.564	0.2806	315.8	1192.1	876.4	793.6	1109.0	0.4959	1.0892	1.5851
7 3.520	.2841	316.8	1192.3	875.6	792.7	1109.1	.4971	1.0868	1.5840
4 3.476	.2877	317.8	1192.5	874.7	791.9	1109.2	.4984	1.0845	1.5829
3.433	.2913	318.9	1192.7	873.9	791.0	1109.4	.4997	1.0821	1.5818
8 3.391	.2949	319.9	1192.9	873.0	790.1	1109.5	.5010	1.0797	1.5807
6 3.349	0.2986	321.0	1193.1	872.2	789.2	1109.7	0.5023	1.0773	1.5796
3 3.308	-			871.3		1109.8	.5036		1.5785
I 3.268	.3060			870.5		1110.0		1.0726	1.5774
3.228	.3098	324.1	1193.7	869.6	786.5	IIIO.I	.5061	1.0702	1.5763
7 3.189	.3136	325.2	1193.9	868.8	785.6	1110.3	.5074	1.0678	1.5752
8 3. 6 3. 3 3. 1 3. 9 3.	391 349 308 268 228	391 .2949 349 0.2986 308 .3023 268 .3060 228 .3098	391 .2949 319.9 349 0.2986 321.0 308 .3023 322.0 268 .3060 323.1 228 .3098 324.1	391 .2949 319.9 1192.9 349 0.2986 321.0 1193.1 308 .3023 322.0 1193.3 268 .3060 323.1 1193.5 228 .3098 324.1 1193.7	391 .2949 319.9 1192.9 873.0 349 0.2986 321.0 1193.1 872.2 308 .3023 322.0 1193.3 871.3 268 .3060 323.1 1193.5 870.5 228 .3098 324.1 1193.7 869.6	391 .2949 319.9 1192.9 873.0 790.1 349 0.2986 321.0 1193.1 872.2 789.2 308 .3023 322.0 1193.3 871.3 788.3 268 .3060 323.1 1193.5 870.5 787.4 228 .3098 324.1 1193.7 869.6 786.5	391 .2949 319.9 1192.9 873.0 790.1 1109.5 349 0.2986 321.0 1193.1 872.2 789.2 1109.7 308 .3023 322.0 1193.3 871.3 788.3 1109.8 268 .3060 323.1 1193.5 870.5 787.4 1110.0 228 .3098 324.1 1193.7 869.6 786.5 1110.1	391 .2949 319.9 1192.9 873.0 790.1 1109.5 .5010 349 0.2986 321.0 1193.1 872.2 789.2 1109.7 0.5023 308 .3023 322.0 1193.3 871.3 788.3 1109.8 .5036 268 .3060 323.1 1193.5 870.5 787.4 1110.0 .5048 228 .3098 324.1 1193.7 869.6 786.5 1110.1 .5061	391 .2949 319.9 1192.9 873.0 790.1 1109.5 .5010 1.0797 349 0.2986 321.0 1193.1 872.2 789.2 1109.7 0.5023 1.0773 308 .3023 322.0 1193.3 871.3 788.3 1109.8 .5036 1.0749 268 .3060 323.1 1193.5 870.5 787.4 1110.0 .5048 1.0726 228 .3098 324.1 1193.7 869.6 786.5 1110.1 .5061 1.0702

Temp.,	Pressure,	Volume,	Weight,		content 3.t.u.		nt heat 3.t.u.	Energy	1	Entropy	
° F.	lb. per sq. in.	cu. ft. per lb.	lb. per cu. ft.	of liquid	of vapor	of vapor- ization	Inter- nal	B.t.u.	of liquid	of vapor- ization	of vapor
t	р	▼″ · ·	I/V"	i'	i'	r	ρ	u″	s'	r/T	s″
355	143.5	3.150	0.3175	326.2	1194.1	867.9	784.7	1110.4	0.5087	1.0654	1.5741
356	145.4	3.112	.3214	327.2	1194.3	867.1	783.8	IIIO.5	.5099	1.0631	1.5730
						866.2	782.9			1.0607	
357	147.2	3.074	.3253	328.3	1194.5			1110.7	.5112		1.5719
358	149.1	3.037	.3293	329.3	1194.7	865.3	782.0	1110.8	.5125	1.0584	1.5709
359	151.0	3.000	•3333	330.4	1194.9	864.5	781.1	1110.9	.5138	1.0560	1.5698
360	153.0	2.964	0.3373	331.4	1195.0	863.6	780.2	IIII.I	0.5150	1.0537	1.5687
361	154.9	2.929	.3414	332.5	1195.2	862.7	779.3	IIII.2	.5163	1.0513	1.5676
362	156.9	2.894	.3456	333.5	1195.4	861.9	778.3	IIII.3	.5176	1.0490	1.5666
363	158.8	2.859	.3498	334.6	1195.6	861.0	777.4	1111.5	.5188	1.0467	1.5655
364	160.8	2.825	.3540	335.6	1195.7	860.1	776.5	1111.6	.5201	1.0443	1.5644
365	162.9	2.792	0.3582	336.7	1195.9	859.2	775.6	1111.7	0.5214	1.0420	1.5634
366	164.9	2.759	.3625	337.7	1196.1	858.3	774.7	1111.8	.5226	1.0397	1.5623
367	167.0	2.726	.3668	338.8	1196.2	857.4	773.8	1112.0	.5239	1.0373	1.5612
368	169.0	2.694	.3712	339.8	1196.4	856.6	772.8	1112.1	.5252	1.0375	1.5602
369	171.1	2.662			1196.6			III2.1 III2.2			
	1/1.1	2,002	•3756	340.9	1190.0	855.7	771.9	1112.2	.5264	1.0327	1.5591
370	173.2	2.631	0.3801	342.0	1196.7	854.8	771.0	1112.3	0.5277	1.0303	1.5580
371	175.4	2.600	.3846	343.0	1196.9	853.9	770.0	1112.4	.5289	1.0280	1.5570
372	177.6	2.570	.3891	344.1	1197.0	853.0	769.1	1112.6	.5302	1.0257	1.5559
373	179.8	2.540	.3937	345.1	1197.2	852.1	768.2	1112.7	.5315	1.0234	1.5549
374	182.0	2.510	.3984	346.2	1197.3	851.2	767.2	1112.8	.5327	1.0211	1.5538
375	184.2	2.481	0.4031	347.2	1197.5	850.3	766.3	1112.9	0.5340	1.0188	1.5528
376	186.4	2.452	.4078	348.3	1197.6	849.4	765.4	1113.0	.5352	1.0165	1.5517
•••	188.7	2.424	.4125	349.3	1197.8	848.5	764.4	1113.1	.5365	1.0142	1.5507
377	191.0	2.396					763.5			1.0142	1.5496
378	~		.4173	350.4	1197.9	847.5		1113.2	•5377		
379	193.3	2.368	.4222	351.4	1198.1	846.6	762.5	1113.3	.5390	1.0096	1.5486
380	195.6	2.341	0.4271	352.5	1198.2	845.7	761.6	1113.4	0.5402	1.0073	1.5475
381	198.0	2.314	.4321	353.6	1198.3	844.8	760.6	1113.5	.5415	1.0050	1.5465
382	200.3	2.288	-437I	354.6	1198.5	843.9	759.7	1113.6	.5427	1.0027	I.5454
383	202.7	2.262	.4421	355.7	1198.6	842.9	758.7	1113.7	.5440	1.0004	1.5444
384	205.1	2.236	.4472	356.7	1198.7	842.0	757.8	1113.8	.5452	0.9981	1.5433
385	207.6	2.211	0.4523	357.8	1198.9	841.1	756.8	1113.9	0.5465	0.9958	1.5423
386	210.0	2.186	.4575	358.8	1199.0	840.2	755.9	1114.0	.5477	.9936	1.5413
387	212.5	2.161	.4627	359.9	1199.1	839.2		1114.1	.5489	.9930	1.5402
388	215.0		.4680	361.0			754-9			.9890	1.5392
389	215.0	2.137 2.113	.4030	362.0	1199.2 1199.4	838.3 837.3	753.9 753.0	1114.2 1114.2	.5502 .5514	.9867	1.5392
390	220.1	0.000		26.2							TEAFT
		2.089	0.4787	363.1	1199.5	836.4	752.0	1114.3	0.5526	0.9845	1.5371
391	222.7	2.065	.4841	364.2	1199.6	835.4	751.0	1114.4	·5539	.9822	1.5361
392	225.3	2.042	.4896	365.2	1199.7	834.5	750.1	1114.5	.5551	·9799	1.5351
393	228.0	2.019	.495I	366.3	1199.8	833.5	749.1	1114.6	.5564	.9777	1.5340
394	230.6	1.987	.5007	367.3	1199.9	832.6	748.1	1114.7	.5576	·9754	1.5330
395	233.3	1.975	0.5063	368.4	1 200.0	831.6	747.I	1114.7	0.5588	0.9732	1.5320
396	236.0	1.953	.5120	369.5	1200.1	830.7	746.2	1114.8	.5601	.9709	1.5310
397	238.7	1.931	.5178	370.5	1200.2	829.7	745.2	1114.9	.5613	.9686	1.5299
398	241.4	1.910	.5236	371.6	1200.3	828.7	744.2	1115.0	.5625	.9664	1.5289
399	244.2	1.889	.5294	372.7	1200.4	827.7	743.2	1115.0	.5638	.9641	1.5279
400	247.0	1.868	0.535	373.7	1200.5	826.8	742.2	1115.1	0.5650	0.9619	1.5269
405	261.3	1.768	.566	379.1	1201.0	821.9	737.3	1115.4	.5711	.9507	1.5218
403	276.3	1.675	507	379.1	1201.4	817.0		1115.7	.5772	.9395	
			-597			812.0	732.3				1.5117
415 420	292.0 308.3	1.587 1.504	.630 .664	389.8 395.1	1201.7 1202.0	806.9	727.2 722.1	1115.9 1116.1	.5833	.9284	1.5067
		-									
425	325.4	1.427	0.701	400.5	1202.2	801.7	716.9	1116.3	0.5954	0.9063	1.5017
430	343.1	1.354	•739	405.9	1202.4	796.5	711.7	1116.4	.6014	.8953	1.4967
435	361.6	1.285	.778	411.4	1202.5	791.2	706.4	1116.5	.6074	.8844	1.4918
440	380.9	1.221	.819	416.8	1202.6	785.8	701.1	1116.5	.6134	.8735	1.4868
445	400.9	1.160	.862	422.2	1202.5	780.3	695.7	1116.5	.6193	.8626	1.4819
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Temp.,	Pressure, lb. per	Volume, cu. ft.	Weight, lb. per		content B.t.u.		nt heat 3.t.u.	Energy		Entropy	
° F.	sq. in.	per lb.	cu. ft.	of liquid	of vapor	of vapor- ization	Inter- nal	B.t.u.	of liquid	of vapor- ization	of vapor
t	р	٧"	I /V "	i′	i'	r	م	u"	s'	r/T	s″
450	421.7	1.102 1.048	0.907	427.7	1202.5	774.8	690.2 684.7	• 1116.4 1116.2	0.6252	0.8518	1.4770 1.4721
455	465.9	0.997	1.003	438.7	1202.1	763.4	679.1	1116.1	.6370	.8302	1.4672
465	489.2	.949	1.054	444.2	1201.8	757.6	673.5	1115.8	.6429	.8194	1.4623
470	513.5	.903	1.107	449.7	1201.5	751.8	667.8	1115.5	.6488	.8087	1.4575
475	538.7	0.860	1.162	455.2	1201.0	745.8	662.0	1115.2	0.6546	0.7980	1.4526
480	564.8	.820 .781	1.220 1.280	460.8 466.4	1200.6	739.8	656.2 650.3	1114.8	.6604	.7873	1.4478
485	591.9 619.9	.701	1.200	400.4	1200.0 1199.4	733.6	644.3	III4.4 III3.9	.6720	.7767 .7660	1.4429 1.4380
490 495	649.0	.710	1.343	477.6	1199.4 1198.7	727.4 721.1	638.2	1113.9	.6778	.7000	1.4332
500	679	0.677	1.477	483.2	1197.9	714.7	632.1	1112.8	0.684	0.7448	1.4283
510	743	.616	1.62	494.6	1196.2	701.6	619.7	1111.4	.695	.724	1.419
520	810	.561	1.78	506.1	1194.1	688.o	606.9	1109.8 1108.0	.707	.702 .681	1.409
530 540	883 960	.512 .468	1.95 2.14	517.7 529.4	1191.7 1189.0	674.0 659.7	593.8 580.4	1105.0	.718 .729	.660	1.399 1.389
550	1043	0.427	2.34	541.2	1186.0	644.8	566.6	1103.6	0.741	0.639	1.379
560	1131	.390	2.56	553.2	1182.7	629.5	552.6	1101.0	.752	.617	1.369
570	1224	.357	2.80	565.5	1178.9	613.4	538.4	1098.0	.764	.596	1.360
580	1323	.326	3.07 3.36	578.2	1174.6 1169.7	596.4 578.6	522.2 506.0	1094.8 1091.0	.776 .789	·574	1.350
590	1429	.298		591.1			Ŭ			.551	1.340
600	1540	0.272	3.68	604.5	1164.2	559.7	488.9	1086.7	0.801	0.528	1.330
610	1659	.248	4.04	618	1158	540	471	1082		.505	• • • • •
620 630	1784	.226	4.43 4.88	633 648	1151	518	452	1077 1071		.480	• • • • •
640	1917 2057	.205 .186	4.00 5.38	664 ·	1143 1134	495 470	431 409	10/1	· · · · · ·	·455 .428	· · · · ·
650	2205	0.168	5.95	681	1124	443	385	1056		0.399	• • • • •
660	2361	.151	6.6	700	III2	412	358	1047		.368	• • • • •
670	2526	.134	7.4	721	1098	377	327	1036		·333	• • • • •
680	2699	.118	8.5	745	1080	335	290	1021	· · · · · ·	.294	• • • • •
690	2882	.101 .080	9.9	776 820	1056 1018	280	243	1002		.244	• • • • •
700	3075		12.5		1010	198	171	972		.170	• • • • •
706.3	3200	0.048	20.9	921	921	0	0	893		0	

TABLE 3. SUPERHEATED STEAM

Pres- sure		1 [101.8]			2 [126.1]			3 [141.5]			4 [153.0]	
Temp °F.	v	s	i	v	S	i	v	s	i	▼	S	i
Sat.	333.3	1.9775	1105.4	173.6	1.9203	1116.2	118.7	1.8871	1122.9	90.6	1.8637	1127.9
150 160 170 180 190	362.2 368.2 374.2 380.1 386.1	2.0160 2.0236 2.0310 2.0382 2.0454	1127.9 1132.5 1137.1 1141.7 1146.3	180.8 183.8 186.8 189.8 192.8	1.9390 1.9466 1.9540 1.9613 1.9685	1127.4 1132.1 1136.7 1141.3 1146.0	120.4 122.4 124.4 126.4 128.4	1.8937 1.9013 1.9088 1.9161 1.9233	1126.9 1131.6 1136.3 1140.9 1145.6	91.7 93.2 94.7 96.2	1.8691 1.8766 1.8840 1.8912	1131.2 1135.9 1140.5 1145.2
200	392.1	2.0524	1150.9	195.8	1.9756	1150.6	130.4	1.9304	1150.2	97.7	1.8984	1149.9
210	398.1	2.0593	1155.5	198.8	1.9825	1155.2	132.4	1.9374	1154.9	99.2	1.9054	1154.5
220	404.0	2.0661	1160.1	201.8	1.9894	1159.8	134.4	1.9443	1159.5	100.8	1.9123	1159.2
230	410.0	2.0728	1164.7	204.8	1.9961	1164.4	136.4	1.9511	1164.1	102.3	1.9190	1163.8
240	416.0	2.0794	1169.3	207.8	2.0027	1169.0	138.5	1.9577	1168.7	103.8	1.9257	1168.5
250	421.9	2.0859	1173.8	210.8	2.0092	1173.6	140.5	1.9643	1173.3	105.3	1.9323	1173.1
260	427.9	2.0923	1178.4	213.8	2.0156	1178.2	142.5	1.9707	1177.9	106.8	1.9387	1177.7
270	433.9	2.0986	1183.0	216.8	2.0220	1182.8	144.5	1.9770	1182.5	108.3	1.9451	1182.3
280	439.8	2.1048	1187.6	219.8	2.0282	1187.4	146.4	1.9833	1187.1	109.8	1.9514	1186.9
290	445.8	2.1110	1192.1	222.8	2.0343	1191.9	148.4	1.9895	1191.7	111.3	1.9576	1191.5
300	451.7	2.1170	1196.7	225.8	2.0404	1196.5	150.4	1.9956	1196.3	112.8	1.9637	1196.1
310	457.7	2.1230	1201.3	228.8	2.0464	1201.1	152.4	2.0016	1200.9	114.3 ⁻	1.9697	1200.7
320	463.6	2.1289	1205.9	231.8	2.0523	1205.7	154.4	2.0075	1205.5	115.8	1.9756	1205.3
330	469.6	2.1348	1210.5	234.7	2.0582	1210.3	156.4	2.0133	1210.1	117.3	1.9814	1209.9
340	475.5	2.1406	1215.1	237.7	2.0640	1214.9	158.4	2.0191	1214.7	118.8	1.9872	1214.6
350	481.5	2.1463	1219.6	240.7	2.0697	1219.5	160.4	2.0249	1219.3	120.3	1.9930	1219.2
400	511.3	2.1738	1242.6	255.6	2.0973	1242.5	170.4	2.0526	1242.4	127.7	2.0207	1242.2
450	541.1	2.2000	1265.7	270.5	2.1235	1265.6	180.3	2.0788	1265.5	135.2	2.0470	1265.4
500	570.8	2.2248	1289.0	285.4	2.1484	1288.9	190.2	2.1036	1288.8	142.7	2.0719	1288.7
550	600.6	2.2486	1312.4	300.3	2.1722	1312.3	200.2	2.1274	1312.3	150.1	2.0957	1312.2

		5 [162.3]			6 [170.1]			7 [176.8]			8 [182.9]	
Sat.	73.5	1.8456	1131.7	62.0	1.8308	1135.0	53.7	1.8184	1137.8	47.4	1.8077	1140.3
180 190	75.7 76.9	1.8589 1.8662	1140.1 1144.8	63.0 64.0	1.8383 1.8456	1139.7 1144.5	53.9 54.8	1.8208 1.8282	1139.3 1144.1	47.9	1.8130	 1143.7
200	78.1	1.8734	1149.5	65.0	1.8528	1149.2	55.7	1.8354	1148.8	48.7	1.8202	1148.4
210	79.3	1.8804	1154.2	66.0	1.8599	1153.9	56.6	1.8425	1153.5	49.4	1.8274	1153.2
220	80.5	1.8873	1158.9	67.0	1.8668	1158.5	57.4	1.8495	1158.2	50.2	1.8344	1157.9
230	81.7	1.8941	1163.5	68.1	1.8737	1163.2	58.3	1.8563	1162.9	51.0	1.8412	1162.6
240	83.0	1.9008	1168.2	69.1	1.8804	1167.9	59.2	1.8631	1167.6	51.7	1.8480	1167.3
250	84.2	1.9074	1172.8	70.1	1.8870	1172.5	60.0	1.8697	1172.3	52.5	1.8547	1172.0
260	85.4	1.9139	1177.4	71.1	1.8935	1177.2	60.9	1.8762	1176.9	53.3	1.8613	1176.7
270	86.6	1.9202	1182.1	72.1	1.8999	1181.8	61.8	1.8826	1181.6	54.0	1.8677	1181.3
280	87.8	1.9265	1186.7	73.1	1.9062	1186.5	62.6	1.8890	1186.2	54.8	1.8740	1186.0
290	89.0	1.9327	1191.3	74.1	1.9124	1191.1	63.5	1.8952	1190.9	55.5	1.8802	1190.7
300	90.2	1.9389	1195.9	75.1	1.9185	1195.7	64.4	1.9013	1195.5	56.3	1.8864	1195.3
310	91.4	1.9449	1200.5	76.1	1.9246	1200.3	65.2	1.9074	1200.1	57.0	1.8925	1199.9
320	92.6	1.9509	1205.2	77.1	1.9306	1205.0	66.1	1.9134	1204.8	57.8	1.8985	1204.6
330	93.8	1.9568	1209.8	78.1	1.9365	1209.6	66.9	1.9193	1209.4	58.6	1.9044	1209.2
340	95.0	1.9626	1214.4	79.1	1.9423	1214.2	67.8	1.9252	1214.1	59.3	1.9103	1213.9
350	96.2	1.9683	1219.0	80.1	1.9480	1218.9	68.7	1.9309	1218.7	60.1	1.9160	1218.5
400	102.2	1.9960	1242.1	85.1	1.9758	1242.0	72.9	1.9587	1241.9	63.8	1.9438	1241.7
450	108.2	2.0223	1265.3	90.1	2.0021	1265.2	77.2	1.9850	1265.1	67.6	1.9702	1265.0
500	114.1	2.0472	1288.7	95.1	2.0271	1288.6	81.5	2.0100	1288.5	71.3	1.9952	1288.4
550	120.1	2.0710	1312.2	100.0	2.0509	1312.1	85.8	2.0338	1312.0	75.0	2.0191	1312.0
600	126.0	2.0940	1335.8	105.0	2.0738	1335.8	90.0	2.0568	1335.7	78.8	2.0421	1335.7
650	132.0	2.1160	1359.7	110.0	2.0959	1359.7	94.2	2.0789	1359.6	82.5	2.0641	1335.7
			v = volum	e, cu. ft.	per lb.	s = entr	ору	i = heat	content, B	.t.u.		

TABLE 3. SUPERHEATED STEAM

Pres-		9			10			11			12	
sure		[188.3]			[193.2]			[197.8]			[202.0]	
°F.	۷	3	i	v	S	i	T	S	i	v	8	i
Sat.	42.4	1.7982	1142.5	38.43	1.7897	1144.4	35.16	1.7821	1146.2	32.41	1.7751	1147.9
200	43.2	1.8068	1148.1	38.85	1.7947	1147.7	35.28	1.7838	1147.3			
210	43.9	1.8140	1152.9	39.47	1.8019	1152.5	35.84	1.7910	1152.1	32.82	1.7810	1151.7
220	44.6	1.8210	1157.6	40.09	1.8090	1157.2	36.41	1.7981	1156.9	33.34	1.7881	1156.5
230 240	45.3 45.9	1.8279 1.8347	1162.3 1167.0	40.70 41.32	1.8159 1.8227	1162.0 1166.7	36.97 37.53	1.8051 1.8119	1161.7 1166.4	33.86 34.37	1.7951 1.8019	1161.3 1166.1
250	46.6	1.8414	1171.7	41.93	1.8294	1171.4	38.09	1.8186	1171.1	34.89	1.8087	1170.9
260	47.3	1.8480	1176.4	42.54	1.8360	1176.1	38.65	1.8252	1175.9	35.40	1.8154	1175.6
270	48.0	1.8544	1181.1	43.15	1.8425	1180.8	39.20	1.8317	1180.6	35.91	1.8219	1180.3
280 290	48.7 49.3	1.8608 1.8670	1185.8 1190.4	43.76 44.37	1.8489 1.8552	1185.5 1190.2	39.76 40.31	1.8381 1.8444	1185.3 1190.0	36.42 36.93	1.8283 1.8346	1185.0 1189.8
300	50.0	1.8732	1195.1	44.98	1.8614	1194.9	40.87	1.8506	1194.7	37.44	1.8408	1194.5
310	50.7	1.8793	1199.7	45.58	1.8675	1199.5	41.42	1.8567	1199.3	37.95	1.8469	1199.1
320	51.4	1.8853	1204.4	46.19	1.8735	1204.2	41.97	1.8628	I 204.0	38.46	1.8530	1 203.8
330	52.0	1.8912	1 209.1	46.79	1.8794	1208.9	42.52	1.8688	1 208.7	38.96	1.8590	1208.5
340	52.7	1.8971	1213.7	47.40	1.8853	1213.5	43.07	1.8747	1213.4	39.47	1.8649	1213.2
350	53.4	1.9029	1218.4	48.00	1.8911	1218.2	43.62	1.8805	1218.0	39.97	1.8707	1217.9
360	54.1	1.9086	1223.0	48.61	1.8968	1222.8	44.17	1.8862	1222.6	40.47	1.8764	1222.5
370	54.7	1.9142	1227.6	49.21	1.9025	1227.4	44.72	1.8919	1227.3	40.98	1.8821	1227.2
380 390	55.4 56.0	1.9198 1.9253	1232.2 1236.9	49.82 50.42	1.9081 1.9136	1232.1 1236.8	45.27 45.82	1.9030	1232.0 1236.7	41.48 41.99	1.8877 1.8932	1231.9
						Ŭ			0,			
400	56.7 60.0	1.9308	1241.6	51.02	1.9190	1241.5 1264.8	46.37	1.9084	1241.4	42.49	1.8987	1241.2
450 500	63.4	1.9571 1.9822	1204.9	54.02 57.02	1.9454 1.9705	1204.8	51.83	1.9348 1.9599	1264.7 1288.2	45.00 47.50	1.9251 1.9503	1264. 6 1288.1
550	66.7	2.0061	1311.9	60.01	1.9944	1311.8	54.55	1.9839	1311.8	50.00	1.9742	1311.7
600	70.0	2.0290	1335.6	63.00	2.0174	1335.6	57.27	2.0069	1335.5	52.49	1.9972	1335.5
							·					1
		13			14			15			16	1
		[205.9]			[209.6]			[213.0]			[216.3]	·
Sat.	30.07		1149.4	28.06		1150.8	26.30		1152.2	24.76		1153.4
	30.07 30.27	[205.9]	1151.4	28.07	[209.6] 1.7628 1.7631	1150.8 1151.0		[213.0] 1.7573	1152.2	24.76	[216.3] 1.7521	1153.4
Sat. 210 220	30.27 30.74	[205.9] 1.7687 1.7717 1.7789	1151.4 1156.2	28.07 28.52	[209.6] 1.7628 1.7631 1.7703	1151.0 1155.9	26.59	[213.0] 1.7573 1.7623		24.91	[216.3] 1.7521 1.7548	
Sat. 210 220 230	30.27 30.74 31.22	[205.9] 1.7687 1.7717 1.7789 1.7859	1151.4 1156.2 1161.0	28.07 28.52 28.97	[209.6] 1.7628 1.7631 1.7703 1.7774	1151.0 1155.9 1160.7	26.59 27.01	[213.0] 1.7573 1.7623 1.7694	1155.5 1160.4	24.91 25.30	[216.3] 1.7521 1.7548 1.7619	1155.2 1160.1
Sat. 210 220 230 240	30.27 30.74 31.22 31.70	[205.9] 1.7687 1.7717 1.7789 1.7859 1.7928	1151.4 1156.2 1161.0 1165.8	28.07 28.52 28.97 29.41	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843	1151.0 1155.9 1160.7 1165.5	26.59 27.01 27.43	[213.0] 1.7573 1.7623 1.7694 1.7763	1155.5 1160.4 1165.2	24.91 25.30 25.69	[216.3] 1.7521 1.7548 1.7548 1.7619 1.7689	1155.2 1160.1 1164.9
Sat. 210 220 230 240 250	30.27 30.74 31.22 31.70 32.18	[205.9] 1.7687 1.7717 1.7789 1.7859 1.7928 1.7996	1151.4 1156.2 1161.0 1165.8	28.07 28.52 28.97 29.41 29.86	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911	1151.0 1155.9 1160.7 1165.5 1170.3	26.59 27.01 27.43 27.84	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831	1155.5 1160.4 1165.2 1170.0	24.91 25.30 25.69 26.08	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758	1155.2 1160.1 1164.9 1169.7
Sat. 210 220 230 240 250 260	30.27 30.74 31.22 31.70 32.18 32.65	[205.9] 1.7687 1.7717 1.7789 1.7859 1.7928 1.7996 1.8063	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3	28.07 28.52 28.97 29.41 29.86 30.30	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978	1151.0 1155.9 1160.7 1165.5 1170.3 1175.1	26.59 27.01 27.43 27.84 28.26	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831 1.7898	1155.5 1160.4 1165.2 1170.0 1174.8	24.91 25.30 25.69 26.08 26.47	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7758 1.7825	1155.2 1160.1 1164.9 1169.7 1174.5
Sat. 210 220 230 240 250	30.27 30.74 31.22 31.70 32.18	[205.9] 1.7687 1.7717 1.7789 1.7859 1.7928 1.7996	1151.4 1156.2 1161.0 1165.8	28.07 28.52 28.97 29.41 29.86 30.30 30.74	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911	1151.0 1155.9 1160.7 1165.5 1170.3	26.59 27.01 27.43 27.84	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831	1155.5 1160.4 1165.2 1170.0	24.91 25.30 25.69 26.08	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758	1155.2 1160.1 1164.9 1169.7
Sat. 210 220 230 240 250 260 270	30.27 30.74 31.22 31.70 32.18 32.65 33.13	[205.9] 1.7687 1.7717 1.7789 1.7859 1.7928 1.7996 1.8063 1.8128	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1	28.07 28.52 28.97 29.41 29.86 30.30	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043	1151.0 1155.9 1160.7 1165.5 1170.3 1175.1 1179.8	26.59 27.01 27.43 27.84 28.26 28.67	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831 1.7898 1.7964	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6	24.91 25.30 25.69 26.08 26.47 26.86	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7758 1.7825 1.7891	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3
Sat. 210 220 230 240 250 260 270 280 290	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07	[205.9] 1.7687 1.7717 1.7789 1.7859 1.7928 1.7996 1.8063 1.8128 1.8128 1.8255	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1189.5	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62	[209.6] I.7628 I.7631 I.7703 I.7774 I.7843 I.7911 I.7978 I.8043 I.8108 I.8171	1151.0 1155.9 1160.7 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3	26.59 27.01 27.43 27.84 28.26 28.67 29.08 29.49	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831 1.7898 1.7898 1.7964 1.8029 1.8093	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7891 1.7956 1.8020	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8
Sat. 210 220 230 240 250 260 270 280 290 300	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54	[205.9] 1.7687 1.7717 1.7789 1.7859 1.7928 1.7996 1.8063 1.8128 1.8192	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043 1.8108	1151.0 1155.9 1160.7 1165.5 1170.3 1175.1 1179.8 1184.6	26.59 27.01 27.43 27.84 28.26 28.67 29.08	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831 1.7898 1.7964 1.8029	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3	24.91 25.30 25.69 26.08 26.47 26.86 27.25	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7758 1.7825 1.7891 1.7956	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1
Sat. 210 220 230 240 250 260 270 280 290	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07	[205.9] 1.7687 1.7717 1.7789 1.7859 1.7928 1.7996 1.8063 1.8128 1.8122 1.8255 1.8317	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1189.5 1194.2	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043 1.8108 1.8171 1.8234	1151.0 1155.9 1160.7 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3 1194.0	26.59 27.01 27.43 27.84 28.26 28.67 29.08 29.49 29.90	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7898 1.7898 1.7964 1.8029 1.8093 1.8155 1.8217	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7891 1.7956 1.8020 1.8083 1.8145 1.8206	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0
Sat. 210 220 230 240 250 260 270 280 290 300 310 320 330	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54 35.01 35.48 35.95	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7996 1.8063 1.8128 1.8192 1.8255 1.8317 1.8379 1.8440 1.8500	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1184.8 1184.8 1184.9 1198.9 1198.9 1192.3 6 1203.6 1208.3	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 32.93 33.37	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043 1.8108 1.8171 1.8234 1.8244 1.8444 1.8444 1.8444 1.8444 1.8444 1.8444 1.8444 1.844	1151.0 1155.9 1160.7 1165.5 1170.3 1175.1 1179.8 1184.6 1184.6 1189.3 1194.0 1198.7 1203.4 1208.1	26.59 27.01 27.43 27.84 28.26 28.67 29.08 29.49 29.90 30.31 30.72 31.13	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831 1.7898 1.7964 1.8029 1.8029 1.8029 1.8023 1.8155 1.8217 1.82278 1.8238	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2 1208.0	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79 29.17	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7891 1.7826 1.8023 1.8145 1.8206	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8
Sat. 210 220 230 240 250 260 270 280 290 300 310 320	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54 35.01 35.48	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7996 1.8063 1.8128 1.8128 1.8129 1.8255 1.8317 1.8379 1.8340	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1189.5 1194.2 1198.9 1203.6	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 32.93	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043 1.8108 1.8171 1.8234 1.8296 1.8357	1151.0 1155.9 1160.7 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3 1194.0 1198.7 1203.4	26.59 27.01 27.43 27.84 28.26 28.67 29.08 29.49 29.90 30.31 30.72	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831 1.7898 1.7898 1.8029 1.8029 1.8093 1.8155 1.8217 1.8278	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7891 1.7956 1.8020 1.8083 1.8145 1.8206	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8
Sat. 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54 35.01 35.48 35.95 36.42 36.89	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7996 1.8063 1.8128 1.8128 1.8128 1.8128 1.8325 1.8317 1.8379 1.8440 1.8559 1.8457 1.8617	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1184.8 1184.8 1184.9 1198.9 1198.9 1192.3 6 1203.6 1208.3	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 32.93 33.37 33.80 34.24	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043 1.8108 1.8108 1.8108 1.8171 1.8234 1.8296 1.8257 1.8417 1.8476 1.8534	1151.0 1155.9 1165.7 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3 1194.0 1198.7 1203.4 1208.1 1212.8 1217.5	26.59 27.01 27.43 27.84 28.26 28.67 29.08 29.49 29.90 30.31 30.72 31.13 31.54 31.94	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831 1.7898 1.7964 1.8029 1.8029 1.8093 1.8155 1.8217 1.8278 1.8238 1.8338 1.8397 1.8456	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2 1208.0 1212.7 1217.4	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79 29.17 29.55 29.93	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7825 1.7825 1.7825 1.8020 1.8083 1.8145 1.8206 1.8226 1.8325 1.8384	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8 1212.5 1217.2
Sat. 210 220 240 250 260 290 300 310 320 330 340 350 360	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54 35.48 35.95 36.42 36.89 37.35	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7996 1.8063 1.8128 1.8128 1.8125 1.8317 1.8337 1.8440 1.8450 1.8455 1.8455 1.8617 1.8675	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1184.8 1184.8 1189.5 1194.2 1198.9 1203.6 1208.3 1213.0 1217.7 1222.4	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 32.93 33.37 33.80 34.24 34.67	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8433 1.8108 1.8108 1.8236 1.8357 1.8417 1.8247 1.8247 1.8247 1.8254 1.8357 1.8476 1.8534 1.8534	1151.0 1155.9 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3 1194.0 1198.7 1203.4 1208.1 1212.8 1217.5 1222.2	26.59 27.01 27.43 27.43 27.84 28.67 29.08 29.49 29.90 30.31 30.72 31.13 31.54 31.94 32.35	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7838 1.7898 1.7898 1.7964 1.8029 1.8029 1.8029 1.8023 1.8155 1.8217 1.8278 1.8238 1.8338 1.8397 1.8456 1.8514	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2 1208.0 1212.7 1217.4 1222.1	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79 29.17 29.55 29.93 30.31	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7891 1.7956 1.7956 1.7956 1.8206 1.8206 1.8226 1.8226 1.8324 1.8384 1.8442	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8 1212.5 1217.2 1221.9
Sat. 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 350 370	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.54 35.48 35.95 36.42 36.89 37.35 37.82	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7928 1.7996 1.8063 1.8128 1.8128 1.8255 1.8317 1.8379 1.8440 1.8559 1.8559 1.8617 1.8675 1.8732	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1184.8 1184.8 1189.5 1194.2 1198.9 1198.9 1198.9 1203.6 1208.3 1213.0 1217.7 1222.4 1227.1	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 32.93 33.37 33.80 34.24 34.67 35.10	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043 1.8108 1.8108 1.8108 1.8107 1.8234 1.8236 1.8477 1.8476 1.8534 1.8534 1.8534 1.8534 1.8534	1151.0 1155.9 1160.7 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3 1194.0 1198.7 1203.4 1208.1 1212.8 1217.5 1222.2 1226.9	26.59 27.01 27.43 27.84 28.26 28.67 29.08 29.49 29.90 30.31 30.72 31.13 31.54 31.94 32.35 32.75	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7898 1.7964 1.8029 1.8093 1.8155 1.8217 1.8278 1.8338 1.83397 1.8456 1.8514 1.8571	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2 1208.0 1212.7 1217.4 1222.1 1226.8	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79 29.17 29.55 29.93 30.31 30.69	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7758 1.7825 1.7891 1.7956 1.8020 1.8020 1.8023 1.8452 1.82066 1.82266 1.82266 1.8225 1.8384 1.8422 1.8429	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8 1212.5 1217.2 1221.9 1226.6
Sat. 210 220 240 250 260 290 300 310 320 330 340 350 360	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54 35.48 35.95 36.42 36.89 37.35	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7996 1.8063 1.8128 1.8128 1.8125 1.8317 1.8337 1.8440 1.8450 1.8455 1.8455 1.8617 1.8675	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1184.8 1184.8 1189.5 1194.2 1198.9 1203.6 1208.3 1213.0 1217.7 1222.4	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 32.93 33.37 33.80 34.24 34.67	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8433 1.8108 1.8108 1.8236 1.8357 1.8417 1.8247 1.8247 1.8247 1.8254 1.8357 1.8476 1.8534 1.8534	1151.0 1155.9 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3 1194.0 1198.7 1203.4 1208.1 1212.8 1217.5 1222.2	26.59 27.01 27.43 27.43 27.84 28.67 29.08 29.49 29.90 30.31 30.72 31.13 31.54 31.94 32.35	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7838 1.7898 1.7898 1.7964 1.8029 1.8029 1.8029 1.8023 1.8155 1.8217 1.8278 1.8238 1.8338 1.8397 1.8456 1.8514	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2 1208.0 1212.7 1217.4 1222.1	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79 29.17 29.55 29.93 30.31	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7891 1.7956 1.7956 1.7956 1.8206 1.8206 1.8226 1.8226 1.8324 1.8384 1.8442	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8 1212.5 1217.2 1221.9
Sat. 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54 35.01 35.48 35.95 36.42 36.89 37.35 37.82 38.28 38.75	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7996 1.8063 1.8128 1.8128 1.8128 1.8128 1.8379 1.8440 1.8550 1.8455 1.8440 1.8559 1.8455 1.8617 1.8675 1.8732 1.8788 1.8788 1.8788	1151.4 1156.2 1161.0 1165.8 1170.6 1170.6 1170.7 1180.1 1184.8 1189.5 1194.2 1198.9 1203.6 1208.3 1213.0 1217.7 1222.4 1227.1 1231.8 1236.4	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 33.37 33.80 34.24 34.67 35.10 35.54 35.97	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043 1.8108 1.8108 1.8171 1.8234 1.8234 1.8357 1.8417 1.8476 1.8534 1.8532 1.8549 1.8705 1.8706	1151.0 1155.9 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3 1194.0 1198.7 1203.4 1208.1 1212.8 1217.5 1222.2 1226.9 1231.6 1236.3	26.59 27.01 27.43 27.84 28.67 29.08 29.49 29.90 30.31 30.72 31.13 31.54 31.94 32.35 32.75 33.16 33.56	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831 1.7898 1.7964 1.8029 1.8029 1.8029 1.8029 1.8029 1.8255 1.8217 1.8278 1.8338 1.8397 1.8456 1.8514 1.8571 1.8627 1.8683	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2 1208.0 1212.7 1217.4 1222.1 1226.8 1231.5 1236.2	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79 29.17 29.55 29.93 30.31 30.69 31.07 31.45	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7891 1.7956 1.8020 1.8083 1.8145 1.8206 1.8206 1.8226 1.8226 1.8325 1.8384 1.8422 1.8384 1.8429 1.8555 1.8611	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8 1212.5 1217.2 1221.9 1226.6 1231.3 1236.0
Sat. 210 220 230 240 250 260 270 280 290 310 320 330 340 350 360 370 380 390 400	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54 35.48 35.48 35.48 35.42 36.89 37.35 37.82 38.28 38.75 39.21	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7928 1.7996 1.8063 1.8128 1.8122 1.8255 1.8172 1.8379 1.8440 1.8559 1.8455 1.8455 1.8559 1.8617 1.8675 1.8732 1.8788 1.8843 1.8898	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1184.8 1189.5 1194.2 1198.9 1203.6 1208.3 1213.0 1217.7 1222.4 1227.1 1231.8 1236.4 1241.1	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 32.93 33.37 33.80 34.24 34.67 35.10 35.54 35.97 36.40	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8433 1.8108 1.8108 1.8236 1.8357 1.8417 1.8234 1.8234 1.8234 1.8234 1.8357 1.8417 1.8476 1.8534 1.8592 1.8549 1.8760 1.8815	1151.0 1155.9 1160.7 1165.5 1170.3 1179.8 1184.6 1189.3 1194.0 1198.7 1203.4 1208.1 1212.8 1217.5 1222.2 1226.9 1231.6 1236.3 1241.0	26.59 27.01 27.43 27.84 28.67 29.08 29.49 29.90 30.31 30.72 31.13 31.54 31.94 32.35 32.75 33.16 33.56 33.96	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7838 1.7898 1.7964 1.8029 1.8029 1.8029 1.8029 1.8217 1.8278 1.8278 1.8338 1.85514 1.85514 1.8571 1.8683 1.8683 1.8738	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2 1208.0 1212.7 1217.4 1222.1 1226.8 1231.5 1236.2 1240.9	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79 29.17 29.55 29.93 30.31 30.69 31.07 31.45 31.83	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7891 1.7956 1.8020 1.8043 1.8145 1.8266 1.8266 1.8325 1.8384 1.8442 1.8499 1.8555 1.8611 1.8666	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8 1212.5 1217.2 1221.9 1226.6 1231.3 1236.0 1240.7
Sat. 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 450	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54 35.01 35.48 35.95 36.42 36.89 37.35 37.82 38.28 38.75 39.21 41.53	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7928 1.7996 1.8063 1.8192 1.8255 1.8317 1.8379 1.8440 1.8559 1.8647 1.8559 1.8647 1.8732 1.8788 1.8788 1.8788 1.8793 1.8843 1.8898 1.9163	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1189.5 1194.2 1198.9 1203.6 1208.3 1213.0 1217.7 1222.4 1227.1 1231.8 1226.4 1241.1 1264.5	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 32.93 33.37 33.80 34.24 34.67 35.10 35.54 35.97 36.40 38.55	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043 1.8108 1.8108 1.8108 1.8234 1.8234 1.8234 1.8234 1.8476 1.8534 1.8534 1.8534 1.8575 1.8476 1.8760 1.8815 1.9080	1151.0 1155.9 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3 1194.0 1198.7 1203.4 1208.1 1212.8 1212.8 1217.5 1222.2 1231.6 1236.3 1241.0 1264.4	26.59 27.01 27.43 27.84 28.26 28.67 29.08 29.49 29.90 30.31 30.72 31.13 31.54 31.94 32.35 32.75 33.16 33.56 33.96 35.97	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7838 1.7964 1.8029 1.8093 1.8155 1.8217 1.8278 1.8338 1.8337 1.8456 1.8514 1.8571 1.8627 1.8683 1.8573 1.8738 1.9003	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2 1228.0 1212.7 1227.4 1222.1 1226.8 1231.5 1226.2 1226.2 1226.4 1226.4	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79 29.17 29.55 29.93 30.31 30.69 31.07 31.45 31.83 33.72	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7758 1.7825 1.7891 1.7956 1.8020 1.8020 1.8020 1.8020 1.8206 1.8226 1.8325 1.8384 1.8422 1.8429 1.8555 1.8461 1.8666 1.8931	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8 1212.5 1217.2 1221.9 1226.6 1231.3 1236.0 1240.7 1264.2
Sat. 210 220 230 240 250 260 290 300 310 320 330 340 350 360 370 380 390 400 450 500	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54 35.01 35.48 35.95 36.42 36.89 37.35 37.82 38.28 38.75 39.21 41.53 43.84	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7996 1.8063 1.8128 1.8128 1.8128 1.8128 1.8329 1.8440 1.8559 1.8440 1.8559 1.8617 1.8675 1.8732 1.8788 1.8843 1.8898 1.9414	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1189.5 1194.2 1198.9 1203.6 1208.3 1213.0 1217.7 1222.4 1231.8 1236.4 1241.1 1264.5 1288.0	28.07 28.52 28.97 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 32.93 33.37 33.80 34.24 34.67 35.54 35.54 35.54 38.55 40.70	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043 1.8108 1.8171 1.8234 1.8296 1.8357 1.8417 1.8476 1.8534 1.8534 1.8592 1.8649 1.8592 1.8760 1.8815 1.8760 1.8815 1.9080 1.9031	1151.0 1155.9 1160.7 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3 1194.0 1198.7 1203.4 1208.1 1212.8 1217.5 1222.2 1231.6 1231.6 1236.3 1241.0 1264.4 1287.9	26.59 27.01 27.43 27.43 27.84 28.26 29.08 29.49 29.90 30.31 30.72 31.13 31.54 31.94 32.35 33.156 33.96 35.97 37.98	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7831 1.7893 1.7964 1.8029 1.8029 1.8093 1.8155 1.8217 1.8278 1.8338 1.8397 1.8456 1.8514 1.8571 1.8627 1.8683 1.8738 1.9033 1.9255	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2 1208.0 1212.7 1217.4 1222.1 1226.8 1231.5 1236.2 1240.9 1264.3 1287.9	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79 29.17 29.55 29.93 30.31 30.69 31.07 31.45 31.83 33.72 35.60	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7891 1.7956 1.8020 1.8043 1.8145 1.8266 1.8266 1.8325 1.8384 1.8442 1.8499 1.8555 1.8611 1.8666	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8 1212.5 1217.2 1221.9 1226.6 1231.3 1236.0 1240.7
Sat. 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 450	30.27 30.74 31.22 31.70 32.18 32.65 33.13 33.60 34.07 34.54 35.01 35.48 35.95 36.42 36.89 37.35 37.82 38.28 38.75 39.21 41.53	[205.9] 1.7687 1.7777 1.7789 1.7928 1.7928 1.7996 1.8063 1.8192 1.8255 1.8317 1.8379 1.8440 1.8559 1.8647 1.8559 1.8647 1.8732 1.8788 1.8788 1.8788 1.8793 1.8843 1.8898 1.9163	1151.4 1156.2 1161.0 1165.8 1170.6 1175.3 1180.1 1184.8 1189.5 1194.2 1198.9 1203.6 1208.3 1213.0 1217.7 1222.4 1227.1 1231.8 1226.4 1241.1 1264.5	28.07 28.52 29.41 29.86 30.30 30.74 31.18 31.62 32.06 32.50 32.93 33.37 33.80 34.24 34.67 35.10 35.54 35.97 36.40 38.55	[209.6] 1.7628 1.7631 1.7703 1.7774 1.7843 1.7911 1.7978 1.8043 1.8108 1.8108 1.8108 1.8234 1.8234 1.8234 1.8234 1.8476 1.8534 1.8534 1.8534 1.8575 1.8476 1.8760 1.8815 1.9080	1151.0 1155.9 1165.5 1170.3 1175.1 1179.8 1184.6 1189.3 1194.0 1198.7 1203.4 1208.1 1212.8 1212.8 1217.5 1222.2 1231.6 1236.3 1241.0 1264.4	26.59 27.01 27.43 27.84 28.26 28.67 29.08 29.49 29.90 30.31 30.72 31.13 31.54 31.94 32.35 32.75 33.16 33.56 33.96 35.97	[213.0] 1.7573 1.7623 1.7694 1.7763 1.7838 1.7964 1.8029 1.8093 1.8155 1.8217 1.8278 1.8338 1.8337 1.8456 1.8514 1.8571 1.8627 1.8683 1.8573 1.8738 1.9003	1155.5 1160.4 1165.2 1170.0 1174.8 1179.6 1184.3 1189.1 1193.8 1198.5 1203.2 1208.0 1212.7 1227.4 1222.1 1226.8 1231.5 1226.2 1226.2 1226.4 1226.4	24.91 25.30 25.69 26.08 26.47 26.86 27.25 27.64 28.02 28.41 28.79 29.17 29.55 29.93 30.31 30.69 31.07 31.45 31.83 33.72	[216.3] 1.7521 1.7548 1.7619 1.7689 1.7758 1.7825 1.7825 1.7895 1.7956 1.8020 1.8033 1.8145 1.8206 1.8325 1.8384 1.8325 1.8384 1.8384 1.8442 1.8495 1.8511 1.8666 1.8931 1.9183	1155.2 1160.1 1164.9 1169.7 1174.5 1179.3 1184.1 1188.8 1193.6 1198.3 1203.0 1207.8 1212.5 1217.2 1221.9 1226.6 1231.3 1236.0 1240.7 1264.2 1287.8

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.

TABLE 3. SUPERHEATED STEAM

Pres- sure		17 [219.4]	÷		18 [222.4]		- 5	19 [225.2]			20 [228.0]	
Temp ° F.	v	s	i	v	s	i	v	S	i	v	s	i
Sat.	23.40	1.7473	1154.6	22.18	1.7427	1155.7	21.09,	1.7384	1156.7	20.10	1.7343	1157.7
230 240	23.79 24.16	1.7548 1.7618	1159.7 1164.6	22.45 22.80	1.7482 1.7552	1159.4 1164.3	21.25 21.58	1.7418 1.7489	1159.1 1164.0	20.17 20.49	1.7358 1.7428	1158.7 1163.6
250 260	24.53 24.90	1.7687 1.7755	1169.4 1174.2	23.15 23.50	1.7621 1.7689	1169.1 1174.0	21.91 22.24	1.7558 1.7626	1168.8 1173.7	20.80 21.12	1.7498 1.7566	1168.5 1173.4
270	25.26	1.7821	1179.0	23.85	1.7755	1178.8	22.57	1.7692	1178.5	21.43	1.7633	1178.3
280 290	25.63 25.99	1.7886 1.7950	1183.8 1188.6	24.19 24.54	1.7820 1.7884	1183.6 1188.4	22.90 23.23	1.7758 1.7822	1183.3 1188.1	21.74 22.06	1.7699 1.7763	1183.1 1187.9
300	26.36	1.8013	1193.4	24.88	1.7947	1193.1	23.56	1.7886	1192.9	22.37	1.7827	1192.7
310	26.72 27.08	1.8075	1198.1 1202.8	25.22	1.8009 1.8071	1197.9 1202.6	23.88 24.21	1.7948 1.8009	1197.7 1202.4	22.68 22.99	1.7889 1.7951	1197.5 1202.2
320 330	27.44	1.8196	1207.6	25.91	1.8132	1207.4	24.53	1.8070	1207.2	23.29	1.8012	1207.0
340	27.80	1.8256	1212.3	26.25	1.8191	1212.1	24.85	1.8130	1212.0	23.60	1.8072	1211.8
350	28.16	1.8315	1217.0	26.59	1.8250	1216.9	25.18	1.8189	1216.7	23.91	1.8131	1216.5
360 370	28.52 28.88	1.8373	1221.8	26.93	1.8308 1.8365	1221.6	25.50	1.8247	1221.4 1226.2	24.22	1.8189 1.8246	1221.3 1226.0
380	29.24	1.8486	1231.2	27.60	1.8422	1231.0	26.14	1.8361	1230.9	24.83	1.8303	1230.7
390	29.59	1.8542	1235.9	27.94	1.8478	1235.7	26.46	1.8417	1235.6	25.13	1.8359	1235.5
400	29.95	1.8597	1240.6	28.28	1.8533	1240.4	26.78	1.8472	1240.3 1263.9	25.44 26.96	1.8414	1240.2
450 500	31.73 33.50	1.8863	1264.1 1287.7	29.96 31.64	1.8799 1.9052	1264.0 1287.6	28.38	1.8739	1203.9	20.90	1.8934	1263.8
550	35.27	1.9356	1311.4	33.31	1.9292	1311.3	31.55	1.9232	1311.2	29.97	1.9175	1311.1
600	37.04	1.9587	1335.2	34.98	1.9523	1335.1	33.13	1.9463	1335.1	31.47	1.9406	1335.0
650	38.80 40.56	1.9808	1359.2 1383.4	36.64 38.30	1.9744 1.9958	1359.1 1383.4	34.71 36.28	1.9684 1.9898	1359.1	32.97	1.9628	1359.1
700 750	42.31	2.0227	1407.8	39.96	2.0164	1407.8	37.85	2.0104	1407.7	34.47 35.96	2.0047	1383.3
		/		33.30	2.01.04	1407.0	31.03			100.0-	1	140/11
		1	140/10	1		1407.0	37.05	1		1		
		21 [230.6]			22 [233.1]	1407.0	37.03	23 [235.5]			24 [237.8]	
Sat.	19.20	21	1158.7	18.38	22 [233.1] 1.7267	1159.6	17.64	23 [235.5] 1.7231	1160.4	16.95	24	1161.3
Sat. 240	19.20 19.49	21 [230.6] 1.7304 1.7371	1158.7 1163.3	18.38 18.59	22 [233.1] 1.7267 1.7316	1159.6 1163.0	17.64	23 [235.5] 1.7231 1.7264	1160.4 1162.7	16.95	24 [237.8] 1.7197 1.7213	1161.3 1162.4
Sat. 240 250	19.20 19.49 19.79	21 [230.6] 1.7304 1.7371 1.7441	1158.7 1163.3 1168.2	18.38 18.59 18.88	22 [233.1] 1.7267 1.7316 1.7386	1159.6 1163.0 1167.9	17.64 17.76 18.04	23 [235.5] 1.7231 1.7264 1.7334	1160.4 1162.7 1167.6	16.95 17.01 17.28	24 [237.8] 1.7197 1.7213 1.7283	1161.3 1162.4 1167.3
Sat. 240	19.20 19.49	21 [230.6] 1.7304 1.7371	1158.7 1163.3	18.38 18.59	22 [233.1] 1.7267 1.7316	1159.6 1163.0	17.64	23 [235.5] 1.7231 1.7264	1160.4 1162.7	16.95	24 [237.8] 1.7197 1.7213	1161.3 1162.4
Sat. 240 260 270 280	19.20 19.49 19.79 20.10 20.40 20.70	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7642	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8	18.38 18.59 18.88 19.17 19.45 19.74	22 [233.1] 1.7267 1.7316 1.7386 1.7455 1.7522 1.7588	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6	17.64 17.76 18.04 18.32 18.60 18.87	23 [235.5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3	16.95 17.01 17.28 17.54 17.81 18.07	24 [237.8] 1.7197 1.7213 1.7283 1.7352 1.7420 1.7486	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1
Sat. 240 250 260 270 280 290	19.20 19.49 19.79 20.10 20.40 20.70 20.99	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7642 1.7707	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7	18.38 18.59 18.88 19.17 19.45 19.74 20.03	22 [233.1] 1.7267 1.7316 1.7386 1.7455 1.7522 1.7588 1.7653	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4	17.64 17.76 18.04 18.32 18.60 18.87 19.14	23 [235.5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7601	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2	16.95 17.01 17.28 17.54 17.81 18.07 18.33	24 [237.8] 1.7197 1.7213 1.7283 1.7352 1.7420 1.7420 1.7486 1.7551	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9
Sat. 240 250 260 270 280 290 300	19.20 19.49 19.79 20.10 20.40 20.70 20.70 20.99 21.29	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7642 1.7707 1.7771	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7588 1.7653 1.7717	1159.6 1163.0 1167.9 1172.8 1172.8 1172.7 1182.6 1187.4 1192.2	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42	23 [235.5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7601 1.7665	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0	16.95 17.01 17.28 17.54 17.81 18.07 18.33 18.60	24 [237.8] 1.7197 1.7213 1.7283 1.7352 1.7420 1.7486 1.7551 1.7615	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8
Sat. 240 250 260 270 280 290	19.20 19.49 19.79 20.10 20.40 20.70 20.99	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7642 1.7707	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1202.1	18.38 18.59 18.88 19.17 19.45 19.74 20.03	22 [233.1] 1.7267 1.7316 1.7386 1.7455 1.7522 1.7588 1.7653	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4	17.64 17.76 18.04 18.32 18.60 18.87 19.14	23 [235.5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7601	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2	16.95 17.01 17.28 17.54 17.81 18.07 18.33	24 [237.8] 1.7197 1.7213 1.7283 1.7352 1.7420 1.7420 1.7486 1.7551	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9
Sat. 240 260 270 280 290 300 310 320 330	19.20 19.49 20.10 20.40 20.70 20.99 21.29 21.58 21.88 21.88 21.88	21 [230.6] 1.7304 1.7371 1.7411 1.7509 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1202.1 1206.8	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7588 1.7653 1.7717 1.7780 1.7842 1.7903	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4 1197.1 1197.1 1201.9 1206.6	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 19.96 20.23	23 [235.5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7665 1.7729 1.7791 1.7752	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0 1196.8 1201.6 1206.4	16.95 17.01 17.28 17.54 17.81 18.07 18.33 18.60 18.86 19.12 19.37	24 [237.8] 1.7197 1.7213 1.7283 1.7352 1.7420 1.7486 1.7551 1.7615 1.7679 1.7741 1.7803	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2
Sat. 240 260 280 290 300 310 320 330 340	19.20 19.49 19.79 20.10 20.40 20.70 20.99 21.29 21.58 21.88 22.17 22.47	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8016	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1202.1 1206.8 1211.6	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16 21.44	22 [233.1] 1.7267 1.7316 1.7386 1.7455 1.7522 1.7588 1.7653 1.7717 1.7780 1.7842 1.7903 1.7963	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1206.6 1211.4	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 19.96 20.23 20.50	23 [235:5] 1.7231 1.7264 1.7334 1.7470 1.7536 1.7470 1.7536 1.7601 1.7665 1.7729 1.7791 1.7852 1.7912	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0 1196.8 1201.6 1206.4 1211.2	16.95 17.01 17.28 17.54 17.54 17.51 18.07 18.33 18.60 18.86 19.12 19.37 19.63	24 [237.8] 1.7197 1.7213 1.7252 1.7420 1.7486 1.7551 1.7615 1.7679 1.7741 1.7803 1.7863	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2 1211.0
Sat. 240 250 260 270 280 290 310 320 330 340 350	19.20 19.49 20.10 20.40 20.70 20.99 21.29 21.58 21.88 22.17 22.47 22.76	21 [230.6] 1.7304 1.7371 1.7411 1.7509 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8016 1.8075	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1202.1 1206.8 1211.6 1216.4	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16 21.44 21.72	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7582 1.7653 1.7653 1.7777 1.7780 1.7842 1.7903 1.7963 1.8022	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1206.6 1211.4 1216.2	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 19.96 20.23 20.50 20.77	23 [235:5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7601 1.7665 1.7729 1.7791 1.7852 1.7912 1.7971	1160.4 1162.7 1167.6 1172.6 1172.6 1172.6 1172.6 1182.3 1187.2 1192.0 1196.8 1201.6 1206.4 1211.2 1216.0	16.95 17.01 17.28 17.54 17.54 18.33 18.60 18.36 19.12 19.37 19.63 19.89	24 [237.8] 1.7197 1.7213 1.7223 1.7352 1.7420 1.7486 1.7551 1.7615 1.7679 1.7741 1.7803 1.7863 1.7922	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1191.8 1196.6 1201.4 1206.2 1211.0 1215.8
Sat. 240 260 280 290 300 310 320 330 340	19.20 19.49 19.79 20.10 20.40 20.70 20.99 21.29 21.58 21.88 22.17 22.47	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8016	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1202.1 1206.8 1211.6	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16 21.44 21.72 22.00 22.28	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7588 1.7653 1.7757 1.7780 1.7842 1.7903 1.7903 1.8080 1.8138	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1206.6 1211.4	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 19.96 20.23 20.50	23 [235:5] 1.7231 1.7264 1.7334 1.7470 1.7536 1.7470 1.7536 1.7601 1.7665 1.7729 1.7791 1.7852 1.7912	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0 1196.8 1201.6 1206.4 1211.2 1216.0 1220.8 1225.5	16.95 17.01 17.28 17.54 17.81 18.07 18.33 18.60 18.86 19.12 19.37 19.63 19.89 20.15 20.41	24 [237.8] 1.7197 1.7213 1.7283 1.7352 1.7420 1.7486 1.7551 1.7615 1.7679 1.7741 1.7803 1.7803 1.7863 1.7922 1.7981 1.8039	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2 1211.0
Sat. 240 260 270 280 290 300 310 320 330 340 350 360 370 380	19.20 19.49 20.10 20.40 20.70 20.99 21.29 21.58 21.88 22.17 22.47 22.47 22.76 23.34 23.34 23.64	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8015 1.8015 1.8133 1.8191 1.8248	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1206.8 1211.6 1216.4 1221.1 1225.9 1230.6	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16 21.44 21.72 22.00 22.28 22.56	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7588 1.7653 1.7717 1.7780 1.7842 1.7903 1.7963 1.8080 1.8138 1.8195	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1206.6 1211.4 1216.2 1220.9 1225.7 1230.4	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 19.96 20.23 20.50 20.77 21.03 21.30 21.57	23 [235:5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7470 1.7536 1.77091 1.7655 1.77991 1.7912 1.7912 1.7971 1.8087 1.8144	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0 1196.8 1206.4 1201.6 1226.5 1226.5 1220.5 1220.3	16.95 17.01 17.28 17.54 17.54 17.81 18.07 18.33 18.60 18.86 19.12 19.12 19.63 19.89 20.15 20.41 20.66	24 [237.8] 1.7197 1.7213 1.7252 1.7420 1.7486 1.7551 1.7679 1.7741 1.7803 1.7863 1.7922 1.7981 1.8039 1.8039	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2 1211.0 1215.8 1220.6 1225.4 1220.1
Sat. 240 260 270 280 290 300 310 320 330 340 350 360 370	19.20 19.49 20.10 20.40 20.70 20.99 21.29 21.58 21.88 22.17 22.47 22.76 23.05 23.34	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8016 1.8015 1.8075 1.8133 1.8191	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1202.1 1206.8 1211.6 1221.1 1225.9	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16 21.44 21.72 22.00 22.28	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7583 1.7653 1.7653 1.7653 1.7717 1.7780 1.7903 1.7903 1.7903 1.8022 1.8080 1.8138 1.8195 1.8251	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1206.6 1211.4 1216.2 1220.9 1225.7	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 19.96 20.23 20.50 20.77 21.03 21.30	23 [235:5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7601 1.7655 1.7729 1.7791 1.7852 1.7912 1.7971 1.8030 1.8087	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0 1196.8 1201.6 1206.4 1211.2 1216.0 1220.8 1225.5	16.95 17.01 17.28 17.54 17.81 18.07 18.33 18.60 18.86 19.12 19.37 19.63 19.89 20.15 20.41	24 [237.8] 1.7197 1.7213 1.7283 1.7352 1.7420 1.7486 1.7551 1.7615 1.7679 1.7741 1.7803 1.7803 1.7863 1.7922 1.7981 1.8039	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2 1201.0 1205.2 1211.0 1215.8 1220.6 1225.4
Sat. 240 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400	19.20 19.49 20.10 20.40 20.70 20.99 21.29 21.58 21.88 22.17 22.47 22.76 23.05 23.34 23.64 23.93 24.22	21 [230.6] 1.7304 1.7371 1.7411 1.7509 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8016 1.8075 1.8133 1.8191 1.8248 1.8304 1.8359	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1202.1 1206.8 1211.6 1216.4 1221.1 1225.9 1235.3 1240.0	18.38 18.59 18.88 19.17 19.45 19.74 20.33 20.31 20.59 20.88 21.16 21.44 21.72 22.00 22.28 22.56 22.83 23.11	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7588 1.7653 1.7653 1.7757 1.7780 1.7842 1.7903 1.7903 1.7903 1.8022 1.8080 1.8138 1.8195 1.8251 1.8251	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1206.6 1211.4 1216.2 1220.9 1225.7 1230.4 1235.2 1239.9	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 20.23 20.50 20.77 21.03 21.30 21.57 21.84 22.10	23 [235:5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7665 1.7729 1.7791 1.7852 1.7971 1.8030 1.8037 1.8144 1.8200 1.8256	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0 1196.8 1201.6 1206.4 1211.2 1216.0 1220.8 1225.5 1230.3 1235.0	16.95 17.01 17.28 17.54 17.81 18.33 18.60 18.86 19.12 19.37 19.63 19.89 20.15 20.41 20.66 20.92 21.17	24 [237.8] 1.7197 1.7213 1.7223 1.7420 1.7420 1.7480 1.7551 1.7615 1.7679 1.7741 1.7803 1.7863 1.7981 1.8039 1.8096 1.8153 1.8208	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2 1211.0 1215.8 1220.6 1225.4 1230.1 1223.4 1239.6
Sat. 240 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 450	19.20 19.49 20.10 20.40 20.70 20.99 21.58 21.58 22.47 22.76 23.34 23.64 23.93 24.22 25.67	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8016 1.8075 1.8133 1.8191 1.8248 1.8304 1.8359 1.8626	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1202.1 1206.8 1211.6 12216.4 1221.1 1225.9 1230.6 1225.3 1240.0 1263.7	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16 21.44 21.72 22.00 22.28 22.56 22.83 23.11 24.49	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7588 1.7653 1.7757 1.7780 1.7842 1.7903 1.7903 1.8080 1.8138 1.8055 1.8251 1.8307 1.8574	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1226.6 1211.4 1216.2 1220.9 1225.7 1230.4 1235.2 1239.9 1263.6	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 19.96 20.23 20.50 20.77 21.03 21.30 21.57 21.84 22.10 23.42	23 [235:5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7601 1.7665 1.7729 1.7791 1.7852 1.7912 1.7971 1.8030 1.8087 1.8144 1.8200 1.8256 1.8524	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0 1196.8 1201.6 1206.4 1211.2 1216.0 1220.8 1225.5 1230.3 1225.5 1230.3 1235.0	16.95 17.01 17.28 17.54 17.81 18.07 18.33 18.60 18.86 19.12 19.37 19.63 19.89 20.15 20.41 20.66 20.92 21.17 22.44	24 [237.8] 1.7197 1.7213 1.7252 1.7420 1.7486 1.7551 1.7615 1.7679 1.7741 1.7863 1.7863 1.7922 1.7981 1.8039 1.8039 1.8039 1.8153 1.8208 1.8153	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2 1211.0 1215.8 1220.6 1225.4 1230.1 1223.4 9 1239.6 1263.4
Sat. 240 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400	19.20 19.49 20.10 20.40 20.70 20.99 21.29 21.58 21.88 22.17 22.47 22.76 23.05 23.34 23.64 23.93 24.22	21 [230.6] 1.7304 1.7371 1.7411 1.7509 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8016 1.8075 1.8133 1.8191 1.8248 1.8304 1.8359	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1202.1 1206.8 1211.6 1216.4 1221.1 1225.9 1235.3 1240.0	18.38 18.59 18.88 19.17 19.45 19.74 20.33 20.31 20.59 20.88 21.16 21.44 21.72 22.00 22.28 22.56 22.83 23.11	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7588 1.7653 1.7653 1.7757 1.7780 1.7842 1.7903 1.7903 1.7903 1.8022 1.8080 1.8138 1.8195 1.8251 1.8251	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1206.6 1211.4 1216.2 1220.9 1225.7 1230.4 1235.2 1239.9	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 20.23 20.50 20.77 21.03 21.30 21.57 21.84 22.10	23 [235:5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7665 1.7729 1.7791 1.7852 1.7971 1.8030 1.8037 1.8144 1.8200 1.8256	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0 1196.8 1201.6 1206.4 1211.2 1216.0 1220.8 1225.5 1230.3 1235.0	16.95 17.01 17.28 17.54 17.81 18.33 18.60 18.86 19.12 19.37 19.63 19.89 20.15 20.41 20.66 20.92 21.17	24 [237.8] 1.7197 1.7213 1.7223 1.7420 1.7420 1.7480 1.7551 1.7615 1.7679 1.7741 1.7803 1.7863 1.7981 1.8039 1.8096 1.8153 1.8208	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2 1211.0 1215.8 1220.6 1225.4 1230.1 1223.4 1239.6
Sat. 240 260 270 280 290 300 310 320 330 340 350 360 370 360 370 380 390 400 450 500	19.20 19.49 20.10 20.70 20.99 21.58 21.88 22.76 23.34 23.64 23.93 24.22 25.67 27.11	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8016 1.8075 1.8133 1.8191 1.8248 1.8304 1.8359 1.8626 1.8880	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1206.8 1211.6 1216.4 1221.1 1225.9 1230.6 1235.3 1240.0 1263.7 1287.4	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16 21.44 21.72 22.00 22.28 22.56 22.83 23.11 24.49 25.87	22 [233.1] 1.7267 1.7316 1.7356 1.7455 1.7522 1.7588 1.7653 1.7717 1.7780 1.7842 1.7963 1.7963 1.8082 1.8082 1.8085 1.8251 1.8251 1.8574 1.8574 1.8574	1159.6 1163.0 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1206.6 1211.4 1216.2 1220.9 1225.7 1230.4 1235.2 1239.9 1263.6 1287.3	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 20.23 20.50 20.77 21.03 21.30 21.57 21.84 22.10 23.42 24.74	23 [235:5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7601 1.7655 1.7729 1.7791 1.7852 1.7912 1.7912 1.7912 1.8037 1.8144 1.8200 1.8256 1.8524 1.8778	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0 1196.8 1206.4 1201.6 1206.4 1211.2 1216.0 1220.8 1225.5 1230.3 1235.0 1239.8 1263.5 1287.2	16.95 17.01 17.28 17.54 17.54 17.81 18.07 18.33 18.60 18.86 19.12 19.37 19.63 19.89 20.15 20.41 20.66 20.92 21.17 22.44 23.70	24 [237.8] 1.7197 1.7213 1.7252 1.7420 1.7486 1.7551 1.7615 1.7679 1.7741 1.7803 1.7863 1.7981 1.8039 1.8096 1.8153 1.8208 1.8153	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2 1211.0 1215.8 1220.6 1225.4 1230.1 1234.9 1239.6 1263.4 1287.1
Sat. 240 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 450 500 550 650	19.20 19.49 19.79 20.10 20.40 20.70 20.99 21.28 21.88 22.17 22.47 22.47 23.05 23.34 23.64 23.93 24.22 25.67 27.11 28.54 29.97 31.40	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8016 1.8075 1.8133 1.8191 1.8248 1.8304 1.8359 1.8626 1.8880 1.9121 1.9352 1.9352	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1206.8 1211.6 1221.1 1225.9 1230.6 1225.3 1240.0 1263.7 1287.4 1311.1 1335.0 1359.0	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16 21.44 21.72 22.00 22.28 22.56 22.83 23.11 24.49 25.87 27.24	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7588 1.7653 1.7757 1.7780 1.7842 1.7903 1.7903 1.7903 1.8080 1.8080 1.8138 1.8195 1.8251 1.8371 1.8574 1.9300 1.9300 1.9300 1.8574 1.8574 1.9300 1.9300 1.9300 1.9300 1.9300 1.8574 1.8574 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9522	1159.6 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1206.6 1211.4 1216.2 1220.9 1225.7 1230.4 1235.2 1239.9 1263.6 1287.3 1311.0 1334.9 1359.0	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 20.23 20.50 20.77 21.03 21.57 21.30 21.57 21.84 22.10 23.42 24.74 26.05	23 [235:5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7601 1.7655 1.7729 1.7791 1.7852 1.7912 1.7971 1.7852 1.7971 1.7852 1.7971 1.88087 1.8144 1.8200 1.8256 1.8524 1.8278 1.9019 1.9251 1.9473	1160.4 1162.7 1167.6 1172.6 1172.6 1172.6 1172.6 1172.6 1172.6 1172.6 1172.6 1206.4 1201.6 1206.4 1211.2 1216.0 1220.8 1220.8 1225.5 1230.3 1235.0 1239.8 1263.5 1263.5 1287.2 1311.0	16.95 17.01 17.28 17.54 17.81 18.07 18.33 18.60 18.86 19.12 19.37 19.63 19.89 20.15 20.41 20.66 20.92 21.17 22.44 23.70 24.96 26.22 27.47	24 [237.8] 1.7197 1.7213 1.7252 1.7420 1.7486 1.7551 1.7679 1.7741 1.7863 1.7863 1.7982 1.7981 1.8039 1.8096 1.8153 1.8208 1.8476 1.8730 1.8972 1.9204 1.9425	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2 1211.0 1215.8 1220.6 1225.4 1230.1 1234.9 1239.6 1263.4 1287.1 1289.1 1289.1
Sat. 240 260 270 280 290 300 310 320 330 340 350 360 370 380 340 450 550 550 600 700	19.20 19.49 19.79 20.10 20.40 20.70 20.99 21.29 21.58 22.17 22.47 22.76 23.05 23.34 23.64 23.93 24.22 25.67 27.11 28.54 29.97 31.40 32.82	21 [230.6] 1.7304 1.7371 1.7411 1.7509 1.7576 1.7642 1.7707 1.7771 1.7771 1.7835 1.7855 1.7956 1.8016 1.8075 1.8133 1.8191 1.8248 1.8359 1.8626 1.88304 1.8359 1.8626 1.88304 1.8359 1.8626 1.88304 1.8359 1.8526 1.88304 1.8359 1.8526 1.8359 1.8526 1.8359 1.8526 1.8359 1.8526 1.8359 1.8526 1.8359 1.8527 1.9352 1.9357 1.9777	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1202.1 1206.8 1211.6 1216.4 1221.1 1225.9 1230.6 1235.3 1240.0 1263.7 1263.7 1287.4 1311.1 1335.0 1359.0 1383.2	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16 21.44 21.72 22.00 22.28 22.56 22.83 23.11 24.49 25.87 27.24 28.61 29.97 31.33	22 [233:1] 1.7267 1.7316 1.7356 1.7522 1.7588 1.7653 1.7653 1.7757 1.7782 1.7963 1.7963 1.7963 1.8022 1.8080 1.8138 1.8251 1.8251 1.8251 1.8374 1.8828 1.8969 1.9300 1.9522 1.9735	1159.6 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1206.6 1211.4 1216.2 1220.9 1225.7 1230.4 1235.2 1239.9 1263.6 1381.0 1384.9 1359.0 1383.2	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 20.23 20.50 20.77 21.03 21.57 21.84 22.10 23.42 24.74 26.05 27.36 28.66 29.97	23 [235:5] 1.7231 1.7264 1.7334 1.7403 1.7400 1.7536 1.7601 1.7601 1.7655 1.7729 1.7791 1.7852 1.7912 1.7971 1.7852 1.7971 1.7852 1.7971 1.8030 1.8037 1.8144 1.8256 1.8524 1.8255 1.8524 1.8255 1.8524 1.8278 1.9019 1.9251 1.9473 1.9686	1160.4 1162.7 1167.6 1172.6 1172.6 1172.6 1172.6 1172.6 1192.0 1192.0 1206.4 1211.2 1216.0 1220.8 1225.5 1230.3 1235.0 1239.8 1263.5 1263.5 1287.2 1311.0 1334.9 1358.9 1383.1	16.95 17.01 17.28 17.54 17.54 17.54 18.33 18.60 18.86 19.12 19.37 19.63 19.89 20.15 20.41 20.66 20.92 21.17 22.44 23.70 24.96 26.22 27.47 28.72	24 [237.8] 1.7197 1.7213 1.7223 1.7352 1.7420 1.7483 1.7551 1.7615 1.7615 1.7655 1.7741 1.7803 1.7741 1.7803 1.7741 1.7803 1.7741 1.7981 1.8039 1.8096 1.8153 1.8208 1.8476 1.8750 1.8972 1.9204 1.9425 1.9639	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1191.8 1191.8 1201.4 1201.4 1206.2 1211.0 1215.8 1220.6 1225.4 1230.1 1234.9 1239.6 1263.4 1287.1 1310.9 1334.8 1358.9 1383.1
Sat. 240 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 450 500 550 650	19.20 19.49 19.79 20.10 20.40 20.70 20.99 21.28 21.88 22.17 22.47 22.47 23.05 23.34 23.64 23.93 24.22 25.67 27.11 28.54 29.97 31.40	21 [230.6] 1.7304 1.7371 1.7441 1.7509 1.7576 1.7642 1.7707 1.7771 1.7833 1.7895 1.7956 1.8016 1.8075 1.8133 1.8191 1.8248 1.8304 1.8359 1.8626 1.8880 1.9121 1.9352 1.9352	1158.7 1163.3 1168.2 1173.1 1178.0 1182.8 1187.7 1192.5 1197.3 1206.8 1211.6 1221.1 1225.9 1230.6 1225.3 1240.0 1263.7 1287.4 1311.1 1335.0 1359.0	18.38 18.59 18.88 19.17 19.45 19.74 20.03 20.31 20.59 20.88 21.16 21.44 21.72 22.00 22.28 22.56 22.83 23.11 24.49 25.87 27.24 28.61 29.97	22 [233.1] 1.7267 1.7316 1.7455 1.7522 1.7588 1.7653 1.7757 1.7780 1.7842 1.7903 1.7903 1.7903 1.8080 1.8080 1.8138 1.8195 1.8251 1.8371 1.8574 1.9300 1.9300 1.9300 1.8574 1.8574 1.9300 1.9300 1.9300 1.9300 1.9300 1.8574 1.8574 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9300 1.9522	1159.6 1167.9 1172.8 1177.7 1182.6 1187.4 1192.2 1197.1 1201.9 1206.6 1211.4 1216.2 1220.9 1225.7 1230.4 1235.2 1239.9 1263.6 1287.3 1311.0 1334.9 1359.0	17.64 17.76 18.04 18.32 18.60 18.87 19.14 19.42 19.69 19.96 20.23 20.50 20.77 21.03 21.30 21.57 21.84 22.10 23.42 24.74 26.05 27.36	23 [235:5] 1.7231 1.7264 1.7334 1.7403 1.7470 1.7536 1.7601 1.7655 1.7729 1.7791 1.7852 1.7912 1.7971 1.7852 1.7971 1.7852 1.7971 1.7852 1.7971 1.88087 1.8144 1.8200 1.8256 1.8524 1.8278 1.9251 1.9251 1.9473	1160.4 1162.7 1167.6 1172.6 1177.5 1182.3 1187.2 1192.0 1196.8 1201.6 1206.6 1206.6 1206.6 1226.5 1230.3 1225.5 1230.3 1235.0 1239.8 1263.5 1287.2 1331.0 1334.9 1358.9	16.95 17.01 17.28 17.54 17.51 18.33 18.60 18.86 19.12 19.37 19.63 19.89 20.15 20.41 20.66 20.92 21.17 22.44 23.70 24.96 26.22 27.47 28.72 29.96	24 [237.8] 1.7197 1.7213 1.7252 1.7420 1.7486 1.7551 1.7679 1.7741 1.7863 1.7863 1.7982 1.7981 1.8039 1.8096 1.8153 1.8208 1.8476 1.8730 1.8972 1.9204 1.9425	1161.3 1162.4 1167.3 1172.3 1177.2 1182.1 1186.9 1191.8 1196.6 1201.4 1206.2 1211.0 1215.8 1220.6 1225.4 1230.1 1225.4 1230.1 1225.4 1230.1 1225.4 1234.9 1239.6 1263.4 1263.4 1334.8 1358.9

				111010								49
Pres-		25 [240.1]		·	26 [242.2]			27 [244.3]			28 [246.4]	
Temp °F.	V	8	i	v	8	i	v	8	i	v	8	i
Sat.	16.32	1.7164	1162.1	15.73	1.7133	1162.8	15.18	1.7103	1163.6	14.67	1.7074	1164.3
250 260 270 280 290	16.57 16.83 17.08 17.34 17.59	1.7235 1.7304 1.7372 1.7439 1.7504	1167.0 1172.0 1176.9 1181.8 1186.7	15.92 16.17 16.41 16.66 16.90	1.7188 1.7258 1.7326 1.7393 1.7458	1166.7 1171.7 1176.6 1181.6 1186.5	15.32 15.56 15.80 16.03 16.27	1.7143 1.7213° 1.7281 1.7348 1.7414	1166.4 1171.4 1176.4 1181.3 1186.2	14.76 14.99 15.22 15.45 15.68	1.7099 1.7169 1.7238 1.7305 1.7371	1166.1 1171.1 1176.1 1181.0 1186.0
300 310 320 330 340	17.84 18.09 18.34 18.59 18.84	1.7568 1.7632 1.7694 1.7756 1.7816	1191.6 1196.4 1201.2 1206.1 1210.9	17.15 17.39 17.63 17.87 18.11	1.7523 1.7587 1.7649 1.7711 1.7771	1191.3 1196.2 1201.0 1205.9 1210.7	16.50 16.74 16.97 17.20 17.43	1.7479 1.7543 1.7605 1.7667 1.7728	1191.1 1196.0 1200.8 1205.7 1210.5	15.90 16.13 16.35 16.58 16.80	1.7436 1.7500 1.7563 1.7625 1.7686	1190.9 1195.7 1200.6 1205.5 1210.3
350 360 370 380 390	19.09 19.34 19.58 19.83 20.08	1.7876 1.7935 1.7993 1.8050 1.8106	1215.7 1220.4 1225.2 1230.0 1234.7	18.35 18.58 18.82 19.06 19.30	1.7831 1.7890 1.7948 1.8005 1.8061	1215.5 1220.3 1225.0 1229.8 1234.6	17.66 17.89 18.12 18.35 18.58	1.7787 1.7846 1.7905 1.7962 1.8018	1215.3 1220.1 1224.9 1229.7 1234.4	17.02 17.24 17.46 17.69 17.91	1.7746 1.7805 1.7863 1.7920 1.7977	1215.1 1219.9 1224.7 1229.5 1234.3
400 410 420 430 440	20.32 20.56 20.81 21.06 21.30	1.8162 1.8217 1.8271 1.8325 1.8378	1239.5 1244.3 1249.0 1253.7 1258.5	19.53 19.77 20.00 20.24 20.47	1.8117 1.8172 1.8227 1.8281 1.8334	1239.3 1244.1 1248.9 1253.6 1258.4	18.80 19.03 19.25 19.48 19.71	1.8074 1.8129 1.8184 1.8238 1.8291	1239.2 1244.0 1248.7 1253.5 1258.3	18,13 18.35 18.57 18.78 19.00	1.8033 1.8088 1.8143 1.8197 1.8250	1239.1 1243.9 1248.6 1253.4 1258.1
450 500 550 600 650	21.54 22.75 23.96 25.17 26.37	1.8430 1.8684 1.8926 1.9158 1.9380	1263.2 1287.0 1310.8 1334.7 1358.8	20.71 21.88 23.04 24.20 25.35	1.8386 1.8640 1.8882 1.9114 1.9336	1263.1 1286.9 1310.8 1334.7 1358.8	19.94 21.06 22.18 23.30 24.41	1.8344 1.8598 1.8840 1.9072 1.9294	1263.0 1286.8 1310.7 1334.6 1358.7	19.22 20.31 21.39 22.47 23.54	1.8303 1.8557 1.8800 1.9032 1.9254	1262.9 1286.7 1310.6 1334.6 1358.7
		29 [248.4]			30 [250.3]			31 [252.2]			32 [254.0]	
Sat.	14.20	1.7046	1165.0	13.76	1.7019	1165.7	13.34	1.6992	1166.3	12.95	1.6967	1166.9
260 270 280 290	14.46 14.68 14.90 15.13	1.7128 1.7196 1.7264 1.7330	1170.8 1175.8 1180.8 1185.7	13.97 14.18 14.40 14.61	1.7088 1.7156 1.7224 1.7290	1170.5 1175.5 1180.5 1185.5	13.50 13.71 13.92 14.13	1.7049 1.7117 1.7185 1.7251	1170.3 1175.3 1180.3 1185.3	13.07 13.28 13.48 13.68	1.7011 1.7079 1.7147 1.7214	1170.0 1175.0 1180.0 1185.0
300 310 320 330 340	15.35 15.56 15.78 16.00 16.21	1.7395 1.7459 1.7522 1.7584 1.7645	1190.6 1195.5 1200.4 1205.3 1210.1	14.82 15.04 15.25 15.46 15.67	1.7355 1.7420 1.7483 1.7545 1.7606	1190.4 1195.3 1200.2 1205.1 1209.9	14.34 14.54 14.75 14.95 15.15	1.7317 1.7381 1.7444 1.7506 1.7568	1190.2 1195.1 1200.0 1204.9 1209.7	13.88 14.08 14.28 14.48 14.67	1.7280 1.7344 1.7407 1.7469 1.7531	1189.9 1194.9 1199.8 1204.7 1209.5
350 360 370 380 390	16.43 16.64 16.86 17.07 17.28	1.7705 1.7764 1.7823 1.7880 1.7937	1214.9 1219.7 1224.6 1229.4 1234.1	15.87 16.08 16.29 16.50 16.70		1214.8 1219.6 1224.4 1229.2 1234.0	15.35 15.56 15.76 15.96 16.16		1214.6 1219.4 1224.2 1229.0 1233.8	15.06		1214.4 1219.2 1224.1 1228.9 1233.7
400 410 420 430 440	17.50 17.71 17.92 18.13 18.34	1.7993 1.8048 1.8103 1.8157 1.8210	1238.9 1243.7 1248.5 1253.3 1258.0	16.91 17.11 17.32 17.52 17.73	1.7954 1.8010 1.8064 1.8118 1.8172	1238.8 1243.6 1248.4 1253.1 1257.9	16.36 16.55 16.75 16.95 17.15	1.7917 1.7972 1.8027 1.8081 1.8134		15.84 16.03 16.23 16.42 16.61		1243.3

400	17.50	1.7993	1238.9	16.91	1.7954	1238.8	16.36	1.7917	1238.6	15.84	1.7881	1238.5
410	17.71	1.8048	1243.7	17.11		1243.6	16.55	1.7972	1243.4	16.03	1.7936	1243.3
420	17.92	1.8103	1248.5	17.32	1.8064		16.75	1.8027	1248.2	16.23	1.7991	1248.1
430	18.13	1.8157			1.8118			1.8081	1253.0		1.8045	1252.9
440	18.34	1.8210	1258.0	17.73	1.8172	1257.9	17.15	1.8134	1257.8	16.61	1.8098	1257.7
450 500 550 600	18.55 19.60 20.65 21.69	1.8518 1.8760	1262.8 1286.6 1310.5 1334.5	18.95 19.96	1.8722	1286.5	18.33 19.31	1.8187 1.8443 1.8686 1.8918	1262.6 1286.5 1310.4 1334.4	17.76 18.71	1.8151 1.8407 1.8650 1.8883	1262.5 1286.4 1310.3 1334.3
650	22.72	1.9215		21.07	1.9177	1358.6		1.9141			1.9105	1358.5
700			1382.9		1.9391			1.9355				1382.8

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Pres- sure		33 [255.8]			34 [257.6]			35 [259.3]			36 [260.9]	
Temp °F.	v	s	i	V	s	i	V	S	i	V	s	i
Sat.	12.59	1.6942	1167.5	12.24	1.6918	1168.1	11.91	1.6895	1168.7	11.60	1.6873	1169.2
260 270	12.67 12.87	1.6974 1.7042	1169.7 1174.7	12.29 12.48	1.6938 1.7006	1169.4 1174.4	11.92 12.11	1.6903 1.6971	1169.1 1174.2		1.6937	1173.9
280 290	13.06 13.26	1.7110 1.7177	1179.7 1184.7	12.67 12.86	1.7074 1.7141	1179.5 1184.5	12.30 12.48	1.7039 1.7107	1179.2 1184.2	11.95 12.13	1.7006 1.7073	1178.9 1184.0
300	13.45	1.7243	1189.7	13.05	1.7207	1189.5	12.67	1.7173	1189.2	12.31	1.7140	1189.0
310 320	13.65 13.84	1.7308 1.7371	1194.6 1199.5	13.24 13.42	1.7272 1.7336	1194.4 1199.3	12.85 13.03	1.7238 1.7302	1194.2 1199.1	12.49 12.66	1.7205 1.7269	1193.9 1198.9
330 340	14.03 14.22	1.7434 1.7495	1204.4 1209.3	13.61 13.80	1.7399 1.7460	1204.2 1209.1	13.22 13.40	1.7365 1.7426	1204.0 1208.9	12.84 13.02	1.7331 1.7393	1203.8 1208.7
350	14.41	1.7556	1214.2	13.98	1.7521	1214.0	13.58	1.7487	1213.8	13.19	1.7454	1213.6
360 370	14.60 14.79	1.7615	1219.0 1223.9	14.17 14.35	1.7581 1.7639	1218.9 1223.7	13.76 13.94	1.7547 1.7606	1218.7 1223.6	13.37 13.54	1.7514 1.7573	1218.5 1223.4
380 390	14.98 15.17	1.7732 1.7789	1228.7	14.53 14.72	1.7697 1.7754	1228.6 1233.4	14.12 14.29	1.7664 1.7722	1228.4	13.72 13.89	1.7631 1.7689	1228.3 1233.1
400	15.36	1.7845	1238.3	14.90	1.7811	1238.2	14.47	1.7778	1238.1	14.06	1.7745	1238.0
410	15.54	1.7901	1243.2	15.08	1.7867	1243.0	14.65	1.7834	1242.9	14.24	1.7801	1242.8
420 430	15.73 15.92	1.7956	1248.0 1252.8	15.26 15.45	1.7922 1.7976	1247.8 1252.6	14.82 15.00	1.7889	1247.7 1252.5	14.41 14.58	1.7856	1247.6 1252.4
440	16.10	1.8064	1257.6	15.63	1.8030	1257.4	15.18	1.7997	1257.3	14.75	1.7965	1257.2
450	16.29	1.8117	1262.3	15.81	1.8083	1262.2	15.35	1.8050	1262.1 1286.1	14.92	1.8018	1262.0 1286.0
500 550	17.22 18.14	1.8373 1.8616	1286.3 1310.2	16.71 17.60	1.8339 1.8582	1286.2 1310.2	16.23 17.10	1.8306	1200.1	15.77 16.62	1.8274	1280.0
600	19.05	1.8848	1334.3	18.49	1.8815	1334.2	17.96	1.8783	1334.1	17.46	1.8751	1334.1
650 700	19.97 20.88	1.9071 1.9286	1358.4 1382.7	19.38 20.26	1.9038 1.9252	1358.4 1382.7	18.82 19.68	1.9006	1358.3 1382.7	18.30	1.8974 1.9189	1358.3 1382.6
100	20.00	1.9200	1302.7	20.20	1.4252							1,402.0
		97				-307	1		-37	-5-5		
		37 [262.6]			38 [264.2]			39 [265.7]			40 [267.2]	
Sat.	11.31		1169.8	11.03	38 [264.2] 1.6830	1170.3	10.76	39	1170.8	10.51	40 [267.2] 1.6788	1171.3
270	11.44	[262.6] 1.6851 1.6903	1169.8 1173.6	11.03 11.13	38 [264.2] 1.6830 1.6871	1170.3 1173.3	10.76 10.84	39 [265.7] 1.6809 1.6839	1170.8 1173.0	10.51	40 [267.2] 1.6788 1.6808	1171.3 1172.7
		[262.6]	1169.8	11.03	38 [264.2] 1.6830	1170.3	10.76	39 [265.7] 1.6809	1170.8	10.51	40 [267.2] 1.6788	1171.3
270 280 290 300	11.44 11.62	[262.6] 1.6851 1.6903 1.6972	1169.8 1173.6 1178.7 1183.7 1188.7	11.03 11.13 11.30 11.47 11.65	38 [264.2] 1.6830 1.6871 1.6940 1.7008 1.7075	1170.3 1173.3 1178.4 1183.5 1188.5	10.76 10.84 11.01	39 [265.7] 1.6809 1.6839 1.6909 1.6977 1.7044	1170.8 1173.0 1178.1 1183.2 1188.2	10.51 10.56 10.72 10.89 11.05	40 [267.2] 1.6788 1.6808 1.6878 1.6946 1.7013	1171.3 1172.7 1177.8 1182.9 1188.0
270 280 290 300 310	11.44 11.62 11.79 11.97 12.14	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7107 1.7172	1169.8 1173.6 1178.7 1183.7 1188.7 1193.7	11.03 11.13 11.30 11.47 11.65 11.82	38 [264.2] 1.6830 1.6871 1.6940 1.7008 1.7075 1.7140	1170.3 1173.3 1178.4 1183.5 1188.5 1193.5	10.76 10.84 11.01 11.17 11.34 11.51	39 [265.7] 1.6809 1.6839 1.6909 1.6977 1.7044 1.7109	1170.8 1173.0 1178.1 1183.2 1188.2 1193.2	10.51 10.56 10.72 10.89 11.05 11.21	40 [267.2] 1.6788 1.6808 1.6878 1.6946 1.7013 1.7079	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0
270 280 290 300	11.44 11.62 11.79 11.97	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7107	1169.8 1173.6 1178.7 1183.7 1188.7	11.03 11.13 11.30 11.47 11.65	38 [264.2] 1.6830 1.6871 1.6940 1.7008 1.7075	1170.3 1173.3 1178.4 1183.5 1188.5	10.76 10.84 11.01 11.17 11.34	39 [265.7] 1.6809 1.6839 1.6909 1.6977 1.7044	1170.8 1173.0 1178.1 1183.2 1188.2	10.51 10.56 10.72 10.89 11.05	40 [267.2] 1.6788 1.6808 1.6878 1.6946 1.7013	1171.3 1172.7 1177.8 1182.9 1188.0
270 280 290 300 310 320 330 340	11.44 11.62 11.79 11.97 12.14 12.31 12.49 12.66	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7107 1.7172 1.7236 1.7299 1.7361	1169.8 1173.6 1178.7 1183.7 1188.7 1193.7 1198.7	11.03 11.13 11.30 11.47 11.65 11.82 11.98	38 [264.2] I.6830 I.6871 I.6940 I.7008 I.7075 I.7140 I.7204 I.7267 I.7330	1170.3 1173.3 1178.4 1183.5 1193.5 1193.5 1198.5 1203.4 1208.4	I0.76 I0.84 II.01 II.17 II.34 II.51 II.67 II.83 I2.00	39 [265.7] 1.6809 1.6979 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299	1170.8 1173.0 1178.1 1183.2 1193.2 1198.2 1198.2 1203.2 1208.2	10.51 10.56 10.72 10.89 11.05 11.21 11.37 11.53 11.69	40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1198.0 1203.0 1208.0
270 280 290 300 310 320 330 340 350	11.44 11.62 11.79 12.14 12.31 12.49 12.66 12.83	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7107 1.7172 1.7236 1.7299 1.7361 1.7422	1169.8 1173.6 1178.7 1183.7 1188.7 1193.7 1198.7 1203.6 1208.6 1213.5	11.03 11.13 11.30 11.47 11.65 11.82 11.98 12.15 12.32 12.49	38 [264.2] 1.6830 1.6871 1.6940 1.7008 1.7075 1.7140 1.7204 1.7267 1.7330 1.7391	1170.3 1173.3 1178.4 1183.5 1188.5 1193.5 1198.5 1203.4 1208.4 1213.3	10.76 10.84 11.01 11.17 11.34 11.51 11.67 11.83 12.00 12.16	39 [265.7] 1.6809 1.6839 1.6909 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360	11770.8 11773.0 1178.1 1183.2 1188.2 1198.2 1203.2 1208.2 1208.2 1213.1	10.51 10.56 10.72 10.89 11.05 11.21 11.37 11.53 11.69 11.85	40 [267.2] 1.6788 1.6808 1.6878 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269 1.7331	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1198.0 1203.0 1208.0 1212.9
270 280 290 300 310 320 330 340	11.44 11.62 11.79 11.97 12.14 12.31 12.49 12.66	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7107 1.7172 1.7236 1.7299 1.7361	1169.8 1173.6 1178.7 1183.7 1188.7 1193.7 1198.7 1203.6 1208.6	II.03 II.13 II.30 II.47 II.65 II.82 II.98 I2.15 I2.32	38 [264.2] I.6830 I.6871 I.6940 I.7008 I.7075 I.7140 I.7204 I.7267 I.7330	1170.3 1173.3 1178.4 1183.5 1193.5 1193.5 1198.5 1203.4 1208.4	I0.76 I0.84 II.01 II.17 II.34 II.51 II.67 II.83 I2.00	39 [265.7] 1.6809 1.6979 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299	1170.8 1173.0 1178.1 1183.2 1193.2 1198.2 1198.2 1203.2 1208.2	10.51 10.56 10.72 10.89 11.05 11.21 11.37 11.53 11.69	40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1198.0 1203.0 1208.0
270 280 290 300 310 320 330 340 350 360	11.44 11.62 11.79 12.14 12.31 12.49 12.66 12.83 13.00	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7107 1.7172 1.7236 1.7299 1.7361 1.7422 1.7482	1169.8 1173.6 1178.7 1183.7 1193.7 1193.7 1198.7 1203.6 1208.6 1213.5 1218.3 1223.2	II.03 II.13 II.30 II.47 II.65 II.82 II.98 I2.15 I2.32 I2.49 I2.65	38 [264.2] 1.6830 1.6940 1.7008 1.7075 1.7140 1.7204 1.7267 1.7330 1.7391 1.7451	1170.3 1173.3 1178.4 1183.5 1193.5 1198.5 1203.4 1208.4 1213.3 1218.2	10.76 10.84 11.01 11.17 11.34 11.51 11.67 11.83 12.00 12.16 12.33	39 [265.7] 1.6809 1.6909 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360 1.7421 1.7480	1170.8 1173.0 1178.1 1183.2 1193.2 1198.2 1203.2 1203.2 1208.2 1213.1 1218.0	10.51 10.56 10.72 10.89 11.05 11.21 11.37 11.53 11.69 11.85 12.01 12.17	40 [267.2] 1.6788 1.6808 1.6878 1.6946 1.7013 1.7143 1.7207 1.7143 1.7207 1.7269 1.7331 1.7331	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1198.0 1203.0 1208.0 1212.9 1217.8 1222.7
270 280 290 300 310 320 330 340 350 360 370 380 390 400	11.44 11.62 11.79 12.14 12.31 12.49 12.66 12.83 13.00 13.17 13.34 13.51 13.68	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7107 1.7172 1.7236 1.7229 1.7361 1.7422 1.7482 1.7482 1.7482 1.7541 1.7600 1.7657 1.7714	1169.8 1173.6 1178.7 1183.7 1193.7 1203.6 1208.6 1213.5 1218.3 1223.2 1228.1 1232.9 1237.8	II.03 II.13 II.30 II.47 II.65 II.82 II.98 I2.15 I2.32 I2.49 I2.65 I2.82 I2.99 I3.15 I3.31	38 [264.2] 1.6830 1.6940 1.7008 1.7075 1.7140 1.7204 1.7267 1.7330 1.7391 1.7451 1.7510 1.7569 1.7626 1.7683	1170.3 1173.3 1178.4 1183.5 1198.5 1203.4 1208.4 1213.3 1218.2 1223.0 1227.9 1232.8 1237.6	IO.76 IO.84 II.01 II.17 II.34 II.51 II.67 II.83 I2.00 I2.16 I2.33 I2.49 I2.81 I2.97	39 [265.7] 1.6809 1.6909 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360 1.7421 1.7480 1.7539 1.7596 1.7653	11770.8 1173.0 1178.1 1183.2 1198.2 1198.2 1203.2 1203.2 1208.2 1213.1 1218.0 1222.9 1227.8 1232.6 1237.5	I0.51 I0.56 I0.72 I0.89 I1.05 I1.37 I1.37 I1.69 I1.85 I2.01 I2.17 I2.33 I2.48 I2.64	40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269 1.7331 1.7207 1.7259 1.7351 1.7450 1.7509 1.7567 1.7624	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1198.0 1203.0 1208.0 1208.0 1212.9 1217.8 1222.7 1227.6 1232.5 1237.3
270 280 290 300 310 320 330 340 350 360 370 380 390	11.44 11.62 11.79 12.14 12.31 12.49 12.66 12.83 13.00 13.17 13.34 13.51	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7172 1.7226 1.7226 1.7236 1.7299 1.7361 1.7422 1.7482 1.7482 1.7541 1.7600 1.7657	1169.8 1173.6 1178.7 1183.7 1193.7 1198.7 1203.6 1208.6 1213.5 1218.3 1223.2 1228.1 1232.9	II.03 II.13 II.30 II.47 II.65 II.82 II.98 I2.15 I2.32 I2.49 I2.65 I2.82 I2.99 I3.15 I3.31 I3.48	38 [264.2] 1.6830 1.6871 1.7075 1.7140 1.7207 1.7207 1.7230 1.7330 1.7391 1.7510 1.7569 1.7626 1.7683 1.7739	1170.3 1173.3 1178.4 1183.5 1193.5 1193.5 1193.5 1203.4 1208.4 1213.3 1218.2 1223.0 1227.9 1232.8 1237.6 1242.5	IO.76 IO.84 II.01 II.7 II.34 II.51 II.67 I2.00 I2.16 I2.33 I2.65 I2.81	39 [265.7] 1.6809 1.6909 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360 1.7421 1.7480 1.7539 1.7596	11770.8 1173.0 1178.1 1183.2 1198.2 1203.2 1203.2 1203.2 1208.2 1213.1 1218.0 1222.9 1227.8 1232.6	I0.51 I0.56 I0.72 I0.89 I1.05 I1.37 I1.53 I1.69 I1.85 I2.01 I2.33 I2.48	40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7143 1.7207 1.7143 1.7207 1.7269 1.7331 1.7391 1.7450 1.7509 1.7567	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1203.0 1203.0 1208.0 1212.9 1217.8 1222.7 1227.6 1232.5
270 280 290 310 320 330 340 350 360 370 380 390 400 410 420 430	11.44 11.62 11.79 12.14 12.31 12.49 12.66 12.83 13.00 13.17 13.34 13.51 13.68 13.85 14.01 14.18	[262.6] 1.6851 1.6972 1.707 1.7172 1.723 1.724 1.729 1.7361 1.7422 1.7482 1.7482 1.7541 1.7600 1.7657 1.7714 1.7770 1.7714 1.7770 1.7825 1.7879	1169.8 1173.6 1178.7 1183.7 1193.7 1198.7 1203.6 1208.6 1213.5 1218.3 1223.2 1228.1 1232.9 1237.8 1242.6 1247.4 1252.3	II.03 II.13 II.30 II.47 II.65 II.82 II.98 I2.15 I2.32 I2.49 I2.65 I2.99 I3.15 I3.48 I3.64 I3.81	38 [264.2] 1.6830 1.6871 1.6940 1.7008 1.7075 1.7140 1.7204 1.7204 1.7204 1.7230 1.7330 1.7391 1.7451 1.7510 1.7683 1.7739 1.7683 1.7739	1170.3 1173.3 1178.4 1183.5 1193.5 1198.5 1203.4 1208.4 1213.3 1218.2 1227.9 1232.8 1232.8 1237.6 1242.5 1252.1	Io.76 Io.84 II.01 II.17 II.34 II.31 II.67 II.33 I2.06 I2.16 I2.65 I2.89 I2.91 I3.13 I3.45	39 [265.7] 1.6809 1.6909 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360 1.7421 1.7480 1.7596 1.7596 1.7595 1.77653 1.7709 1.77653	11770.8 11773.0 11778.1 1178.1 1183.2 1193.2 1198.2 1203.2 1203.2 1203.2 1213.1 1218.0 1227.8 1237.5 1247.2 1252.0	IO.51 IO.56 IO.72 IO.89 II.05 II.37 II.53 II.69 II.85 I2.01 I2.33 I2.64 I2.80 I2.96 I3.12	40 [267.2] 1.6788 1.6808 1.6978 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269 1.7331 1.7391 1.7450 1.7509 1.7567 1.7680 1.7757	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1203.0 1203.0 1208.0 1212.9 1217.8 1222.7 1227.6 1232.5 1232.5 1237.3 1242.2 1247.0 1251.9
270 280 290 300 310 320 340 350 360 370 380 390 400 410 420 430 440	11.44 11.62 11.79 11.97 12.14 12.31 12.49 12.66 12.83 13.00 13.17 13.34 13.51 13.68 13.85 14.01 14.18 14.35	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7172 1.7236 1.7299 1.7361 1.7422 1.7541 1.7557 1.7754 1.7754 1.77557 1.7714 1.7770 1.7825 1.7879 1.7933	1169.8 1173.6 1178.7 1183.7 1193.7 1193.7 1193.7 1203.6 1208.6 1213.5 1213.5 1223.2 1228.1 1232.9 1237.8 1242.6 1247.4 1252.3 1257.1	11.03 11.13 11.30 11.47 11.65 11.82 11.98 12.15 12.32 12.49 12.65 12.82 12.99 13.15 13.31 13.48 13.64 13.97	38 [264.2] 1.6830 1.6871 1.7075 1.7075 1.7140 1.7204 1.7267 1.7330 1.7251 1.7451 1.7451 1.7510 1.7569 1.7626 1.7683 1.7739 1.7794 1.7849 1.7903	1170.3 1173.3 1178.4 1183.5 1193.5 1193.5 1193.5 1203.4 1203.4 1208.4 1213.3 1218.2 1223.0 1227.9 1232.8 1237.6 1242.5 1247.3 1252.1 1256.9	10.76 10.84 11.01 11.77 11.31 11.67 11.67 12.16 12.16 12.49 12.65 12.81 12.97 13.13 13.29 13.61	39 [265.7] 1.6809 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360 1.7421 1.7480 1.7539 1.7596 1.7653 1.7709 1.7764 1.7819 1.7873	11770.8 1173.0 1178.1 1183.2 1193.2 1198.2 1203.2 1203.2 1213.1 1218.0 1222.9 1227.8 1237.5 1242.3 1247.2 1252.0 1256.8	I0.51 I0.56 I0.72 I0.89 I1.05 I1.37 I1.37 I1.37 I1.37 I1.37 I2.31 I2.33 I2.48 I2.64 I2.80 I3.12 I3.27	40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269 1.7331 1.7450 1.7359 1.7567 1.7624 1.7680 1.7735 1.7790 1.7844	1171.3 1172.7 1177.8 1182.9 1188.0 1198.0 1203.0 1208.0 1208.0 1212.9 1217.8 1222.7 1227.6 1232.5 1237.3 1242.2 1247.0 1251.9 1256.7
270 280 290 310 320 340 350 360 370 380 390 400 410 420 430 440 450	11.44 11.62 11.79 12.14 12.31 12.49 12.66 12.83 13.00 13.17 13.34 13.51 13.68 13.85 14.01 14.18 14.35 14.52	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7172 1.7236 1.7299 1.7361 1.7422 1.7482 1.7541 1.7600 1.7557 1.7714 1.7770 1.7755 1.7879 1.7933 1.7986	1169.8 1173.6 1178.7 1183.7 1188.7 1193.7 1198.7 1203.6 1208.6 1213.5 1213.5 1228.1 1232.9 1237.8 1242.6 1247.4 1252.3 1257.1 1261.9	II.03 II.13 II.47 II.65 II.82 II.98 I2.15 I2.32 I2.49 I2.65 I2.99 I3.15 I3.31 I3.48 I3.64 I3.97 I4.13	38 [264.2] 1.6830 1.6871 1.6940 1.7008 1.7075 1.7140 1.7204 1.7267 1.7330 1.7391 1.7451 1.7569 1.7683 1.7739 1.7794 1.7794 1.7793 1.7794 1.7903	1170.3 1173.3 1178.4 1183.5 1198.5 1198.5 1203.4 1208.4 1213.3 1218.2 1223.0 1223.9 1232.8 1237.6 1242.5 1247.3 1252.1 1256.9 1261.8	Io.76 Io.84 II.01 II.7 II.34 II.67 II.67 I2.33 I2.49 I2.65 I2.81 I2.97 I3.13 I3.29 I3.45 I3.76	39 [265.7] 1.6809 1.6909 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360 1.7421 1.7480 1.7539 1.7553 1.7596 1.7653 1.7764 1.7819 1.7764 1.7819 1.77873 1.7926	1170.8 1173.0 1178.1 1183.2 1193.2 1198.2 1203.2 1203.2 1213.1 1218.0 1227.8 1237.5 1242.3 1247.2 1252.0 1225.8 1261.7	IO.51 IO.51 IO.56 IO.72 IO.89 II.05 II.21 II.37 II.53 II.69 II.85 I2.01 I2.17 I2.33 I2.48 I2.64 I2.80 I2.96 I3.12 I3.27 I3.42	40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269 1.7331 1.7391 1.7450 1.7509 1.7557 1.7624 1.7680 1.7735 1.7790 1.77844 1.7897	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1203.0 1203.0 1208.0 1212.9 1217.8 1222.7 1227.6 1232.5 1232.5 1237.3 1242.2 1247.0 1251.9
270 280 290 300 320 330 340 350 360 370 380 390 400 410 420 430 440 500 550	11.44 11.62 11.79 12.14 12.31 12.49 12.66 12.83 13.00 13.17 13.34 13.51 13.68 13.85 14.01 14.18 14.35 14.52 15.34 16.17	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7107 1.7122 1.7236 1.7236 1.7299 1.7361 1.7422 1.7482 1.7482 1.7482 1.7541 1.7600 1.7657 1.7714 1.7770 1.7825 1.7825 1.7825 1.7986 1.8243 1.8487	1169.8 1173.6 1178.7 1183.7 1183.7 1198.7 1203.6 1208.6 1213.5 1218.3 1223.2 1228.1 1232.9 1237.8 1247.4 1252.3 1257.1 1261.9 1309.9	II.03 II.13 II.30 II.47 II.65 II.82 II.98 I2.15 I2.32 I2.49 I2.65 I2.82 I2.99 I3.15 I3.31 I3.48 I3.97 I4.13 I4.94 I5.74	38 [264.2] 1.68300 1.6940 1.7008 1.7075 1.7140 1.7204 1.7267 1.7330 1.7451 1.7451 1.7510 1.7569 1.7626 1.7683 1.7739 1.7794 1.7849 1.7794 1.7849 1.7903	1170.3 1173.3 1178.4 1183.5 1188.5 1193.5 1203.4 1208.4 1213.3 1218.2 1223.0 1227.9 1232.8 1237.6 1242.5 1247.3 1252.1 1256.9 1261.8 1309.9	IO.76 IO.84 II.01 II.71 II.34 II.51 II.67 II.83 I2.00 I2.16 I2.33 I2.49 I2.65 I2.81 I2.97 I3.13 I3.29 I3.45 I3.61 I3.76 I4.55 I5.33	39 [265.7] 1.6809 1.6909 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360 1.7421 1.7480 1.7539 1.7596 1.7653 1.7709 1.7764 1.7819 1.7813 1.7873 1.7926 1.8184 1.8428	1170.8 1173.0 1178.1 1183.2 1188.2 1198.2 1203.2 1203.2 1208.2 1213.1 1218.0 1222.9 1227.8 1232.6 1237.5 1247.2 1252.0 1256.8 1261.7 1285.7 1309.8	IO.51 IO.56 IO.72 IO.89 II.05 II.37 II.53 II.69 II.85 I2.01 I2.33 I2.48 I2.64 I2.96 I3.12 I3.42 I4.19 I4.95	40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269 1.7331 1.7391 1.7450 1.7509 1.7567 1.7567 1.7624 1.7680 1.7755 1.7759 1.77844 1.7897 1.8155	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1203.0 1203.0 1208.0 1212.9 1217.8 1222.7 1227.6 1232.5 1237.3 1242.2 1247.0 1251.9 1256.7 1261.5 1285.6 1309.7
270 280 290 310 320 330 340 350 360 370 380 390 400 410 420 430 440 5 00	11.44 11.62 11.79 12.14 12.31 12.49 12.66 12.83 13.00 13.17 13.34 13.51 13.68 13.85 14.01 14.18 14.35 14.52 14.52 15.34	[262.6] 1.6851 1.6972 1.707 1.7172 1.723 1.724 1.725 1.724 1.7422 1.7482 1.7482 1.7541 1.7657 1.7714 1.7755 1.7714 1.7755 1.7879 1.7933 1.7986 1.8243	1169.8 1173.6 1178.7 1183.7 1188.7 1193.7 1198.7 1203.6 1208.6 1213.5 1228.1 1222.2 1227.8 1242.6 1247.4 1252.3 1257.1 1261.9 1285.9	II.03 II.13 II.47 II.65 II.82 II.98 I2.15 I2.32 I2.49 I2.65 I2.99 I3.31 I3.48 I3.81 I3.97 I4.13 I4.94	38 [264.2] 1.6830 1.6871 1.6940 1.7008 1.7075 1.7140 1.7204 1.7204 1.7267 1.7330 1.7391 1.7451 1.7510 1.7569 1.7683 1.7799 1.7794 1.7793 1.7795 1.7956 1.8213	1170.3 1173.3 1178.4 1183.5 1198.5 1203.4 1213.3 1218.2 1227.9 1232.8 1232.8 1247.3 1242.5 1247.3 1252.1 1256.9 1261.8 1285.8	Io.76 Io.84 II.01 II.7 II.34 II.67 II.33 I2.00 I2.16 I2.33 I2.65 I2.81 I2.97 I3.13 I3.45 I3.61 I3.76	39 [265.7] 1.6809 1.6909 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360 1.7421 1.7480 1.7596 1.7596 1.77653 1.7709 1.7754 1.77819 1.77819 1.7873 1.7926 1.8184	11770.8 11773.0 1178.1 1183.2 1198.2 1203.2 1203.2 1208.2 1213.1 1218.0 1227.8 1232.6 1237.5 1247.2 1242.3 1247.2 1252.0 1256.8 1261.7 1285.7	IO.51 IO.56 IO.72 IO.89 II.05 II.37 II.37 II.53 II.69 II.85 I2.01 I2.33 I2.64 I2.80 I2.64 I3.12 I3.27 I3.42 I4.19	40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269 1.7331 1.7391 1.7450 1.7509 1.7567 1.7624 1.7682 1.7735 1.7790 1.77844 1.7897 1.8155	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1198.0 1203.0 1203.0 1208.0 1212.9 1217.8 1222.7 1227.6 1232.5 1237.3 1242.2 1247.0 1251.9 1256.7 1261.5 1285.6
270 280 290 300 310 320 340 350 360 370 380 390 400 410 420 430 4450 550 600	11.44 11.62 11.79 11.97 12.14 12.31 12.49 12.66 12.83 13.00 13.17 13.34 13.51 13.68 13.85 14.01 14.18 14.35 14.35 14.52 15.34 16.17 16.99	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7172 1.7236 1.7226 1.7299 1.7361 1.7422 1.7482 1.7482 1.7482 1.7541 1.7600 1.7657 1.7714 1.7770 1.7755 1.7879 1.7933 1.7986 1.8243 1.8487 1.8720 1.8944	1169.8 1173.6 1178.7 1183.7 1188.7 1198.7 1203.6 1203.6 1213.5 1218.3 1223.2 1228.1 1232.9 1237.8 1247.4 1252.3 1257.1 1261.9 1309.9 1334.0 1358.2	II.03 II.13 II.47 II.65 II.82 II.98 I2.15 I2.32 I2.49 I2.65 I2.99 I3.31 I3.48 I3.64 I3.81 I3.97 I4.13 I4.74 I5.74 I6.54 I7.34	38 [264.2] 1.6830 1.6871 1.7008 1.7075 1.7140 1.7204 1.7267 1.7330 1.7391 1.7451 1.7569 1.7683 1.7759 1.7754 1.7759 1.7794 1.7793 1.7795 1.8213 1.8457 1.8457 1.8690 1.8914	1170.3 1173.3 1178.4 1183.5 1188.5 1193.5 1198.5 1203.4 1213.3 1218.2 1227.9 1227.9 1232.8 1232.6 1247.5 1247.5 1247.5 1256.9 1261.8 1285.8 1309.9 1334.0 1358.2	Io.76 Io.84 II.01 II.7 II.34 II.51 II.67 I2.33 I2.49 I2.65 I2.81 I2.97 I3.13 I3.29 I3.45 I3.76 I4.55 I5.33 I6.11 I6.89	39 [265.7] 1.6809 1.6909 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360 1.7421 1.7480 1.7539 1.7553 1.7599 1.7764 1.7819 1.7764 1.7819 1.7764 1.7819 1.7754 1.7826 1.8184 1.8428 1.8661 1.8885	1170.8 1173.0 1178.1 1183.2 1198.2 1203.2 1208.2 1213.1 1218.0 1227.8 1232.6 1237.5 1247.2 1252.0 1256.8 1261.7 1285.7 1309.8 1333.9 1358.1	I0.51 I0.56 I0.72 I0.89 I1.05 I1.37 I1.37 I1.37 I1.37 I1.37 I1.37 I1.37 I1.37 I1.31 I2.38 I2.64 I2.80 I3.12 I3.42 I4.19 I4.95 I5.71 I6.46	40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269 1.7331 1.7391 1.7450 1.7509 1.7567 1.7624 1.7684 1.7785 1.7790 1.7784 1.77897 1.8155 1.8399 1.8856	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1198.0 1203.0 1203.0 1208.0 1212.9 1217.8 1222.7 1227.6 1232.5 1237.3 1242.2 1247.0 1251.9 1256.7 1261.5 1285.6 1309.7 133.8 1358.1
270 280 290 300 310 320 330 340 350 370 380 390 400 410 420 430 440 450 550 600 650	11.44 11.62 11.79 12.14 12.31 12.49 12.66 12.83 13.00 13.17 13.34 13.51 13.68 13.85 14.01 14.18 14.35 14.52 15.34 16.17 16.99 17.80	[262.6] 1.6851 1.6903 1.6972 1.7040 1.7107 1.7127 1.7236 1.7299 1.7361 1.7482 1.7482 1.7482 1.7541 1.7600 1.7657 1.7714 1.7770 1.7714 1.7793 1.7986 1.8243 1.8243 1.8720	1169.8 1173.6 1178.7 1183.7 1198.7 1203.6 1208.6 1213.5 1218.3 1223.2 1228.1 1223.2 1237.8 1242.6 1247.4 1252.3 1257.1 1261.9 1285.9 1309.9 1334.0	II.03 II.13 II.30 II.47 II.65 II.82 II.98 I2.15 I2.32 I2.49 I2.65 I2.82 I2.99 I3.15 I3.31 I3.48 I3.64 I3.97 I4.13 I4.94 I5.74 I6.54	38 [264.2] 1.6830 1.6940 1.7008 1.7075 1.7140 1.7204 1.7267 1.7330 1.7391 1.7451 1.7510 1.7569 1.7626 1.7683 1.7739 1.7794 1.7849 1.7903 1.7956 1.8213 1.7956 1.8213 1.8457 1.8459	1170.3 1173.3 1178.4 1183.5 1198.5 1203.4 1208.4 1213.3 1218.2 1223.0 1227.9 1232.8 1237.6 1242.5 1242.5 1247.3 1252.1 1256.9 1261.8 1285.8 1309.9 1334.0	10.76 10.84 11.01 11.17 11.31 11.51 11.67 11.83 12.00 12.16 12.33 12.49 12.65 12.81 12.97 13.13 13.29 13.451 13.76 14.55 15.33 16.11	39 [265.7] 1.6809 1.6909 1.6977 1.7044 1.7109 1.7173 1.7236 1.7299 1.7360 1.7421 1.7480 1.7539 1.7596 1.7653 1.7709 1.7764 1.7819 1.7873 1.7926 1.8428 1.8428 1.8661	11770.8 1173.0 1178.1 1183.2 1198.2 1198.2 1203.2 1203.2 1208.2 1213.1 1218.0 1222.9 1227.8 1237.5 1242.3 1242.3 1247.2 1252.0 1256.8 1261.7 1285.7 1309.8 1333.9	IO.51 IO.56 IO.72 IO.89 II.05 II.105 II.37 II.37 II.37 II.37 II.37 II.37 II.31 II.32 II.32 II.485 II.2.17 II.2.33 II.2.48 II.2.64 II.2.80 II.2.12 II.2.12 II.2.12 II.2.12 II.2.12 II.2.13 II.2.14 II.2.17 II.2.17 <t< td=""><td>40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269 1.7331 1.7391 1.7450 1.7509 1.7567 1.7624 1.7680 1.7755 1.7790 1.7844 1.7897 1.8155 1.8339</td><td>1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1203.0 1208.0 1208.0 1212.9 1217.8 1222.7 1227.6 1232.5 1237.3 1242.2 1247.0 1251.9 1256.7 1261.5 1285.6 1309.7 1333.8</td></t<>	40 [267.2] 1.6788 1.6808 1.6946 1.7013 1.7079 1.7143 1.7207 1.7269 1.7331 1.7391 1.7450 1.7509 1.7567 1.7624 1.7680 1.7755 1.7790 1.7844 1.7897 1.8155 1.8339	1171.3 1172.7 1177.8 1182.9 1188.0 1193.0 1203.0 1208.0 1208.0 1212.9 1217.8 1222.7 1227.6 1232.5 1237.3 1242.2 1247.0 1251.9 1256.7 1261.5 1285.6 1309.7 1333.8

Pres- sure		41 [268.7]			42 [270.2]			43 [271.6]			44 [273.0]	
Temp ° F.	V	s ·	i	V	s	i		s	i		s	i
Sat.	10.27	1.6768	1171.8	10.04	1.6749	1172.2	9.82	1.6730	1172.7	9.61	1.6712	1173.2
280 290	10.45 10.61	1.6848 1.6916	1177.6 1182.7	10.20 10.35	1.6818 1.6887	1177.3 1182.4	9.95 10.11	1.6789 1.6858	1177.0 .1182.2	9.72 9.87	1.6761 1.6830	1176.8 1181.9
300	10.77	1.6983	1187.8	10.51	1.6954	1187.5	10.26	1.6926	1187.3	10.02	1.6898	1187.0
310	10.93	1.7049	1192.8	10.67	1.7020 1.7085	1192.6	10.41	1.6992 1.7057	1192.3 1197.4	10.17	1.6964	1192.1 1197.1
330	11.25	1.7178	1202.8	10.97	1.7149	1202.6	10.71	1.7121	1202.4	10.46	1.7093	1202.2
340	11.40	1.7240	1207.8	11.13	1.7212	1207.6	10.86	1.7184	1207.4	10.61	1.7156	1207.2
350	11.56	1.7301	1212.7	11.28	1.7273	1212.5	11.01	1.7245	1212.3	10.76	1.7218	1212.1
360	11.71	1.7362	1217.6	11.43	1.7334	1217.4	11.16	1.7306	1217.3	10.90	1.7279	1217.1
370 380	11.87	1.7421 1.7480	1222.5	11.58 11.73	1.7393 1.7452	1222.4 1227.3	11.31 11.45	1.7366 1.7425	1222.2 1227.1	11.05	1.7339 1.7398	1222.0 1226.9
390	12.18	1.7538	1232.3	11.88	1.7510	1232.2	11.60	1.7483	1232.0	11.33	1.7456	1231.9
400	12.33	1.7595	1237.2	12.03	1.7567	1237.1	11.75	1.7540	1236.9	11.48	1.7513	1236.8
410	12.48	1.7651	1242.1	12.18	1.7623	1241.9	11.89	1.7596	1241.8	11.62	1.7569	1241.6
420	12.63	1.7707	1246.9	12.33	1.7679	1246.8	12.04	1.7652	1246.6	11.76	1.7625	1246.5
430 440	12.78	1.7762 1.7816	1251.7 1256.6	12.48 12.62	I.7734 I.7788	1251.6 1256.5	12.18 12.33	1.7707 1.7761	1251.5 1256.3	11.90 12.05	1.7680 1.7734	1251.4 1256.2
450		960				7.067.0			7 26 7 2	10.10	00	
500	13.09 13.84	1.7869 1.8127	1261.4 1285.5	12.77 13.50	1.7841 1.8100	1261.3 1285.4	12.47 13.19	1.7814 1.8073	1261.2	12.19	1.7788 1.8047	1261.1
550	14.58	1.8371	1309.6	14.23	1.8344	1309.5	13.90	1.8318	1309.4	13.58	1.8292	1309.4
600	15.32	1.8605	1333.8	14.96	1.8578	1333.7	14.61	1.8552	1333.6	14.27	1.8526	1333.6
650	16.06	1.8829	1358.0	15.68	1.8802	1358.0	15.31	1.8776	1357.9	14.96	1.8750	1357.9
700	16.80	1.9044	1382.4	16.39	1.9017	1382.4	16.01	1.8991	1382.3	15.65	1.8965	1382.3
750	17.53	1.9251	1407.0	17.11	1.9224	1406.9	16.71	1.9198	1406.9	16.33	1.9173	1406.9
800	18.26	1.9452	1431.7	17.82	1.9425	1431.7	17.41	1.9399	1431.7	17.01	1.9373	1431.7
												1
	6	45 [274.4]			46 [275.8]		15	47 [277.1]			48 [278.4]	
Sat.	9.41		1173.6	9.22		1174.0	9.04		1174.4	8.86		1174.8
		[274.4] 1.6694			[275.8] 1.6676	1174.0 1176.2		[277.1]		8.86	[278.4]	
Sat.	9.41 9.49 9.64	[274.4]	1173.6 1176.5 1181.7	9.22 9.28 9.43	[275.8]		9.04 9.08 9.22	[277.1] 1.6659	1174.4 1175.9 1181.1		[278.4] 1.6642	1174.8 1175.7 1180.9
Sat. 280	9.49	[274.4] 1.6694 1.6733	1176.5	9.28	[275.8] 1.6676 1.6706	1176.2	9.08	[277.1] 1.6659 1.6679	1175.9	8.90	[278.4] 1.6642 1.6653	1175.7
Sat. 280 290	9.49 9.64 9.79 9.94	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937	1176.5 1181.7 1186.8 1191.9	9.28 9.43 9.57 9.71	[275.8] 1.6676 1.6706 1.6775 1.6843 1.6910	1176.2 1181.4 1186.5 1191.6	9.08 9.22 9.36 9.50	[277.1] 1.6659 1.6679 1.6749 1.6817 1.6884	1175.9 1181.1 1186.3 1191.4	8.90 9.03 9.16 9.30	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858	1175.7 1180.9 1186.0 1191.1
Sat. 280 290 300 310 320	9.49 9.64 9.79 9.94 10.08	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7002	1176.5 1181.7 1186.8 1191.9 1196.9	9.28 9.43 9.57 9.71 9.86	[275.8] 1.6676 1.6706 1.6775 1.6843 1.6910 1.6976	1176.2 1181.4 1186.5 1191.6 1196.7	9.08 9.22 9.36 9.50 9.64	[277.1] 1.6659 1.6679 1.6749 1.6817 1.6884 1.6949	1175.9 1181.1 1186.3 1191.4 1196.5	8.90 9.03 9.16 9.30 9.43	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924	1175.7 1180.9 1186.0 1191.1 1196.2
Sat. 280 290 300 310 320 330	9.49 9.64 9.79 9.94 10.08 10.23	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7002 1.7066	1176.5 1181.7 1186.8 1191.9 1196.9 1202.0	9.28 9.43 9.57 9.71 9.86 10.00	[275.8] 1.6676 1.6706 1.6775 1.6843 1.6910 1.6976 1.7040	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8	9.08 9.22 9.36 9.50 9.64 9.78	[277.1] 1.6659 1.6749 1.6817 1.6884 1.6949 1.7014	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5	8.90 9.03 9.16 9.30 9.43 9.57	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.6989	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3
Sat. 280 290 300 310 320 330 340	9.49 9.64 9.79 9.94 10.08 10.23 10.37	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7002 1.7066 1.7129	1176.5 1181.7 1186.8 1191.9 1196.9 1202.0 1207.0	9.28 9.43 9.57 9.71 9.86 10.00 10.14	[275.8] 1.6676 1.6706 1.6775 1.6843 1.6910 1.6976 1.7040 1.7103	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8	9.08 9.22 9.36 9.50 9.64 9.78 9.92	[277.1] 1.6659 1.6679 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1206.6	8.90 9.03 9.16 9.30 9.43 9.57 9.71	[278.4] 1.6653 1.6723 1.6791 1.6858 1.6924 1.6989 1.7052	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4
Sat. 280 290 300 310 320 330 340 350	9.49 9.64 9.79 9.94 10.08 10.23 10.37	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7002 1.7066 1.7129 1.7191	1176.5 1181.7 1186.8 1191.9 1196.9 1202.0 1207.0 1211.9	9.28 9.43 9.57 9.71 9.86 10.00 10.14	[275.8] 1.6676 1.6775 1.6843 1.6910 1.6976 1.7040 1.7103 1.7165	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06	[277.1] 1.6659 1.6679 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.7139	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1206.6 1211.6	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.6989 1.7052 1.7114	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4
Sat. 280 290 300 310 320 330 340 350 360	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7002 1.7066 1.7129 1.7191 1.7252	1176.5 1181.7 1186.8 1191.9 1196.9 1202.0 1207.0 1211.9 1216.9	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.42	[275.8] 1.6676 1.6775 1.6843 1.6910 1.6976 1.7040 1.7103 1.7165 1.7226	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8 1216.7	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19	[277.1] 1.6659 1.6679 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.7139 1.7201	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1206.6 1211.6 1216.5	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.6989 1.7052 1.7114 1.7176	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1216.4
Sat. 280 290 300 310 320 330 340 350 360 370	9.49 9.64 9.79 9.94 10.08 10.23 10.37	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7002 1.7066 1.7129 1.7191 1.7252 1.7312	1176.5 1181.7 1186.8 1191.9 1196.9 1202.0 1207.0 1211.9	9.28 9.43 9.57 9.71 9.86 10.00 10.14	[275.8] 1.6676 1.6706 1.6775 1.6843 1.6910 1.6976 1.7040 1.7103 1.7165 1.7226 1.7286	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06	[277.1] 1.6659 1.6679 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.7139	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1206.6 1211.6	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.6989 1.7052 1.7114	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4
Sat. 280 290 300 310 320 330 340 350 360	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7002 1.7066 1.7129 1.7191 1.7252	1176.5 1181.7 1186.8 1191.9 1196.9 1202.0 1207.0 1211.9 1216.9 1221.8	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.42 10.56	[275.8] 1.6676 1.6775 1.6843 1.6910 1.6976 1.7040 1.7103 1.7165 1.7226	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8 1216.7 1221.7	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19 10.33	[277.1] 1.66599 1.6679 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.7139 1.7201 1.7201 1.7261	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1206.6 1211.6 1216.5 1221.5	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.6989 1.7052 1.7114 1.7176 1.7236	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1216.4 1221.3
Sat. 280 290 300 310 320 330 340 350 360 370 380	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80 10.94	[2744] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7026 1.7129 1.7129 1.7191 1.7252 1.7312 1.7371	1176.5 1181.7 1186.8 1191.9 1196.9 1202.0 1207.0 1211.9 1216.9 1221.8 1226.8	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.42 10.56 10.70	[275.8] 1.66766 1.6775 1.6843 1.6910 1.6976 1.7040 1.7103 1.7165 1.7226 1.7286 1.7286 1.7345 1.7404	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8 1216.7 1221.7 1226.6	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19 10.33 10.46 10.60 10.73	[277.1] 1.66599 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.7139 1.7261 1.7251 1.7230	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1201.6 1211.6 1211.6 1221.5 1226.4 1231.4	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7052 1.7114 1.7114 1.7236 1.7235	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1216.4 1221.3 1226.3
Sat. 280 290 300 310 320 330 340 350 360 370 380 390	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7026 1.7129 1.7129 1.7121 1.7312 1.7371 1.7429 1.7487 1.7543	1176.5 1181.7 1186.8 1191.9 1202.0 1207.0 1221.9 1221.8 1226.8 1221.8 1226.8 1221.7 1236.6 1241.5	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.42 10.56 10.70 10.83 10.97 11.11	[275.8] 1.66766 1.6775 1.6843 1.6910 1.6961 1.7040 1.7103 1.7105 1.7226 1.7286 1.7286 1.7286 1.7285 1.7286 1.7285 1.7494 1.7471 1.7518 1.7285 1.7285 1.7285 1.7285 1.7285 1.7285 1.7285 1.7285 1.7285 1.7285 1.7285 1.7285 1.7285 1.7285 1.7285 1.7494 1.7471 1.7518 1.5518 1.55	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8 1216.7 1226.6 1221.7 1226.6 1231.5 1236.5 1241.4	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19 10.33 10.46 10.60 10.73 10.87	[277.1] 1.66599 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.71201 1.7261 1.7250 1.7261 1.7250 1.7279 1.7436 1.7493	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1201.5 1221.5 1226.4 1221.4 1231.4 1236.3 1241.2	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.64	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7059 1.7114 1.7114 1.7236 1.7295 1.7354 1.7411 1.7468	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1216.4 1221.3 1226.3 1231.2 1236.2 1241.1
Sat. 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36 11.50	[274.4] I.6694 I.6733 I.6802 I.6870 I.6937 I.7002 I.7066 I.7191 I.7252 I.7312 I.7311 I.7329 I.7343 I.7543 I.7599	1176.5 1181.7 1186.8 1191.9 1196.9 1202.0 1207.0 1211.9 1216.9 1221.8 1226.8 1221.7 1236.6 1241.5 1246.4	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.56 10.70 10.83 10.97 11.11 11.24	[275.8] 1.66766 1.6775 1.6843 1.6910 1.6976 1.7040 1.7103 1.7165 1.7286 1.7345 1.7345 1.7404 1.7471 1.7518 1.7574	1176.2 1181.4 1186.5 1191.6 1201.8 1201.8 1211.8 1216.7 1221.7 1221.7 1226.6 1231.5 1236.5 1241.4 1246.2	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19 10.33 10.46 10.60 10.73 10.87 11.00	[277.1] 1.66599 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.7139 1.7201 1.7320 1.7320 1.7329 1.7339 1.7346 1.7493 1.7493	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1201.5 1206.6 1216.5 1226.4 1221.5 1226.4 1221.4 1231.4	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.64 10.77	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7052 1.7114 1.7126 1.7236 1.7295 1.7254 1.7411 1.7468 1.7524	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1221.3 1226.3 1231.2 1236.2 1236.2 1241.1 1246.0
Sat. 280 290 300 310 320 330 340 350 360 370 380 390 400 410	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7026 1.7129 1.7129 1.7129 1.7121 1.7322 1.7371 1.7429 1.7487 1.7543	1176.5 1181.7 1186.8 1191.9 1202.0 1207.0 1221.9 1221.8 1226.8 1221.8 1226.8 1221.7 1236.6 1241.5	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.42 10.56 10.70 10.83 10.97 11.11	[275.8] 1.66766 1.6775 1.6843 1.6910 1.6961 1.7040 1.7103 1.7105 1.7226 1.7286 1.7286 1.7286 1.7285 1.7286 1.7285 1.7275 1.7285 1.7275 1.7275 1.7285 1.7275 1.7285 1.7275 1.7275 1.7285 1.7285 1.7275 1.72	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8 1216.7 1226.6 1221.7 1226.6 1231.5 1236.5 1241.4	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19 10.33 10.46 10.60 10.73 10.87	[277.1] 1.66599 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.71201 1.7261 1.7250 1.7261 1.7250 1.7279 1.7436 1.7493	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1201.5 1221.5 1226.4 1221.4 1231.4 1236.3 1241.2	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.64	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7052 1.7114 1.7116 1.7236 1.7295 1.7354 1.7411 1.7468	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1216.4 1221.3 1226.3 1231.2 1236.2 1241.1
Sat. 280 2990 300 310 320 330 340 350 360 370 380 390 400 410 430 440	9.49 9.64 9.79 9.94 10.03 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36 11.50 11.64 11.77	[2744] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7026 1.7129 1.7191 1.7252 1.7371 1.7429 1.7487 1.7599 1.7654 1.7708	1176.5 1181.7 1186.8 1191.9 1202.0 1207.0 1211.9 1226.8 1221.8 1226.8 1221.7 1236.6 1241.5 1246.4 1251.2 1256.1	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.56 10.70 10.83 10.97 11.11 11.24 11.38 11.52	[275.8] 1.66766 1.6775 1.6843 1.6910 1.6946 1.7049 1.7103 1.7165 1.7226 1.7286 1.7286 1.7285 1.7286 1.7285 1.7286 1.72788 1.7494 1.7471 1.7578 1.7578 1.7659 1.7658 1.7659 1.7658 1.7659 1.7658 1.7659 1.7658 1.7659 1.7658 1.7658 1.7659 1.7658 1.7	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8 1216.7 1226.6 1221.7 1226.6 1231.5 1236.5 1241.4 1246.2 1251.1 1256.0	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19 10.33 10.46 10.60 10.73 10.87 11.00 11.13 11.27	[277.1] 1.66599 1.6749 1.6817 1.6884 1.6949 1.7014 1.7201 1.7201 1.7201 1.7251 1.7320 1.7379 1.7436 1.7493 1.74	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1206.6 1211.6 1221.5 1226.4 1221.4 1231.4 1236.3 1241.2 1246.1 1255.8	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.64 10.77 10.90 11.03	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7052 1.7114 1.7176 1.7236 1.7295 1.7295 1.7354 1.7411 1.7468 1.7579 1.7634	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1216.4 1221.3 1226.3 1231.2 1236.2 1241.1 1246.0 1250.8 1255.7
Sat. 280 2990 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36 11.50 11.64 11.77 11.91	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7002 1.7066 1.7191 1.7252 1.7312 1.7312 1.7343 1.7543 1.7599 1.7487 1.7543 1.7598 1.77654 1.7762	1176.5 1181.7 1186.8 1191.9 1202.0 1207.0 1207.0 1221.8 1226.8 1221.8 1226.8 1231.7 1236.6 1241.5 1246.4 1251.2 1256.1 1261.0	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.42 10.56 10.70 10.83 10.97 11.11 11.24 11.38 11.52 11.65	[275.8] 1.66766 1.6775 1.6843 1.6910 1.6976 1.7040 1.7103 1.7165 1.7286 1.7286 1.7285 1.7404 1.7471 1.7518 1.7574 1.7629 1.7683 1.7737	1176.2 1181.4 1186.5 1191.6 1201.8 1206.8 1211.8 1216.7 1221.7 1226.6 1221.5 1226.6 1231.5 1236.5 1241.4 1246.2 1251.1 1256.0 1260.8	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19 10.33 10.46 10.60 10.73 10.87 11.00 11.13	[277.1] 1.66599 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.7139 1.7261 1.7320 1.7379 1.7436 1.7493 1.7493 1.7493 1.7495 1.7458 1.7658 1.7712	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1201.5 1206.6 1211.6 1216.5 1226.4 1221.5 1226.4 1231.4 1236.3 1241.2 1246.1 1255.8 1260.7	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.64 10.77 10.90	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7052 1.7114 1.7174 1.7236 1.7295 1.7255 1.7254 1.7411 1.7468 1.7579 1.7688	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1216.4 1221.3 1226.3 1231.2 1236.2 1241.1 1246.0 1250.8 1255.7 1260.6
Sat. 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 500	9.49 9.64 9.79 9.94 10.03 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36 11.50 11.64 11.77	[2744] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7026 1.7129 1.7191 1.7252 1.7371 1.7429 1.7487 1.7599 1.7654 1.7708	1176.5 1181.7 1186.8 1191.9 1202.0 1207.0 1211.9 1226.8 1221.8 1226.8 1221.7 1236.6 1241.5 1246.4 1251.2 1256.1	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.56 10.70 10.83 10.97 11.11 11.24 11.38 11.52	[275.8] 1.66766 1.6775 1.6843 1.6910 1.6946 1.7049 1.7103 1.7165 1.7226 1.7286 1.7286 1.7285 1.7286 1.7285 1.7286 1.72788 1.7494 1.7471 1.7578 1.7578 1.7659 1.7658 1.7659 1.7658 1.7659 1.7658 1.7659 1.7658 1.7659 1.7658 1.7658 1.7659 1.7658 1.7	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8 1216.7 1226.6 1221.7 1226.6 1231.5 1236.5 1241.4 1246.2 1251.1 1256.0	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.73 10.46 10.60 10.73 10.87 11.00 11.13 11.27 11.40	[277.1] 1.66599 1.6749 1.6817 1.6884 1.6949 1.7014 1.7201 1.7201 1.7201 1.7251 1.7320 1.7379 1.7436 1.7493 1.74	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1206.6 1211.6 1221.5 1226.4 1221.4 1231.4 1236.3 1241.2 1246.1 1255.8	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.64 10.77 10.90 11.03 11.16	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7052 1.7114 1.7176 1.7236 1.7295 1.7295 1.7354 1.7411 1.7468 1.7579 1.7634	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1216.4 1221.3 1226.3 1231.2 1236.2 1241.1 1246.0 1250.8 1255.7
Sat. 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 500 550 600	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36 11.50 11.64 11.77 11.61 12.60 13.28 13.95	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7002 1.7129 1.7129 1.7129 1.7129 1.71312 1.7371 1.7429 1.7487 1.7593 1.7593 1.7593 1.7593 1.7708 1.7708 1.7708 1.7708 1.7708	1176.5 1181.7 1186.8 1191.9 1196.9 1202.0 1207.0 1221.8 1226.8 1221.8 1226.8 1221.8 1226.4 1241.5 1246.4 1251.2 1256.1 1256.1 1256.1 1265.1 1309.3 1303.5	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.42 10.56 10.70 10.83 10.97 11.11 11.24 11.38 11.52 11.65 12.32 12.99 13.65	[275.8] I.66766 I.6775 I.6843 I.6910 I.7030 I.7103 I.7165 I.72266 I.72266 I.72266 I.7286 I.7286 I.7285 I.7404 I.7471 I.7518 I.7474 I.7471 I.7518 I.7574 I.7693 I.7737 I.7936 I.7737 I.7936 I.8241 I.8476	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8 1226.7 1226.6 1231.5 1241.4 1246.2 1251.1 1256.0 1260.8 1285.0 1309.2 1333.5	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19 10.33 10.46 10.60 10.73 10.87 11.00 11.13 11.27 11.40 12.06 12.71 13.36	[277.1] 1.6659 1.6749 1.6749 1.6817 1.6884 1.6949 1.7014 1.7017 1.7139 1.7201 1.7201 1.7201 1.7201 1.7251 1.7379 1.7436 1.7493 1.7493 1.7549 1.7658 1.7712 1.7712 1.7712 1.8217 1.8217 1.8252	1175.9 1181.1 1186.3 1191.4 1196.5 1201.6 1211.6 1211.6 1221.5 1226.4 1231.4 1236.3 1241.2 1246.1 1255.8 1260.7 1285.0 1309.2 1333.4	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.64 10.77 10.90 11.03 11.16 11.80 12.44 13.08	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7052 1.7114 1.7236 1.7295 1.7295 1.7354 1.7411 1.7468 1.7524 1.7579 1.7688 1.7688 1.7947 1.8193 1.8428	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1216.4 1221.3 1226.3 1231.2 1236.2 1241.1 1246.0 1250.8 1255.7 1260.6 1284.9 1309.1 1333.3
Sat. 280 290 310 320 330 340 350 360 370 380 390 400 410 420 440 450 500 550	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36 11.50 11.64 11.77 11.91 12.60 13.28	[2744] 1.6694 1.6733 1.6822 1.6870 1.7062 1.7066 1.7129 1.7129 1.7191 1.7252 1.7371 1.7252 1.7371 1.7429 1.7487 1.7543 1.7593 1.7765 1.7768 1.7762 1.8266	1176.5 1181.7 1186.8 1191.9 1202.0 1207.0 1211.9 1221.8 1226.8 1226.8 1231.7 1236.6 1241.5 1246.4 1251.2 1246.4 1255.1 1261.0 1285.1 1309.3	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.42 10.56 10.70 10.83 10.97 11.11 11.24 11.38 11.52 11.65 12.32 12.99	[275.8] 1.66766 1.6775 1.6843 1.6976 1.6976 1.6976 1.7040 1.7040 1.7103 1.7165 1.7226 1.7286 1.7286 1.7286 1.7345 1.7404 1.7471 1.7518 1.7574 1.7683 1.7737 1.7996 1.7996 1.8241	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8 1216.7 1221.7 1221.7 1226.5 1231.5 1231.5 1241.4 1246.2 1251.1 1256.0 1260.8 1285.0 1309.2	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19 10.33 10.46 10.60 10.73 10.60 10.73 11.00 11.13 11.27 11.40 12.06 12.71	[277.1] 1.66599 1.6749 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.7139 1.7201 1.7201 1.7201 1.7230 1.7436 1.7493 1.7493 1.7495 1.7495 1.7658 1.7712 1.7971 1.8217	1175.9 1181.1 1186.3 1191.4 1196.5 1206.6 1216.5 1221.5 1226.4 1221.5 1226.4 1221.5 1226.3 1241.2 1246.1 1255.8 1246.7 1255.8	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.51 10.51 10.51 10.51 10.77 10.90 11.03	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.6989 1.7052 1.7114 1.7176 1.7236 1.7295 1.7254 1.7411 1.7468 1.7579 1.7688 1.7579 1.7688 1.7544 1.7688 1.7947 1.7688 1.7947 1.8193	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1221.3 1226.3 1231.2 1236.2 1231.2 1236.2 1241.1 1246.0 1250.8 1255.7 1260.6 1284.9 1309.1
Sat. 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 500 550 600	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36 11.50 11.64 11.77 11.61 12.60 13.28 13.95	[274.4] 1.6694 1.6733 1.6802 1.6870 1.6937 1.7002 1.7129 1.7129 1.7129 1.7129 1.71312 1.7371 1.7429 1.7487 1.7593 1.7593 1.7593 1.7593 1.7708 1.7708 1.7708 1.7708 1.7708	1176.5 1181.7 1186.8 1191.9 1196.9 1202.0 1207.0 1221.8 1226.8 1221.8 1226.8 1221.8 1226.4 1241.5 1246.4 1251.2 1256.1 1256.1 1256.1 1265.1 1309.3 1303.5	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.42 10.56 10.70 10.83 10.97 11.11 11.24 11.38 11.52 11.65 12.32 12.99 13.65	[275.8] I.66766 I.6775 I.6843 I.6910 I.7030 I.7103 I.7165 I.72266 I.72266 I.72266 I.7286 I.7286 I.7285 I.7404 I.7471 I.7518 I.7474 I.7471 I.7518 I.7574 I.7693 I.7737 I.7936 I.7737 I.7936 I.8241 I.8476	1176.2 1181.4 1186.5 1191.6 1201.8 1206.8 1211.8 1216.7 1221.7 1221.7 1226.5 1231.5 1231.5 1241.4 1246.2 1251.1 1256.0 1260.8 1285.0 1309.2 1333.5 1357.8 1382.2	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.19 10.33 10.46 10.60 10.73 10.87 11.00 11.13 11.27 11.40 12.06 12.71 13.36	[277.1] 1.6659 1.6749 1.6749 1.6817 1.6884 1.6949 1.7014 1.7017 1.7139 1.7201 1.7201 1.7201 1.7201 1.7251 1.7379 1.7436 1.7493 1.7493 1.7549 1.7658 1.7712 1.7712 1.7712 1.8217 1.8217 1.8252	1175.9 1181.1 1186.3 1191.4 1196.5 1201.6 1211.6 1211.6 1221.5 1226.4 1231.4 1236.3 1241.2 1246.1 1255.8 1260.7 1285.0 1309.2 1333.4	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.64 10.77 10.90 11.03 11.16 11.80 12.44 13.08	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7052 1.7114 1.7236 1.7295 1.7295 1.7354 1.7411 1.7468 1.7524 1.7579 1.7688 1.7688 1.7947 1.8193 1.8428	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1216.4 1221.3 1226.3 1231.2 1236.2 1241.1 1246.0 1250.8 1255.7 1260.6 1284.9 1309.1 1333.3
Sat. 280 290 310 320 330 340 350 360 370 380 390 400 410 420 440 500 5550 600 650 700 750	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36 11.64 11.50 11.64 11.77 11.91 12.60 13.28 13.95 14.63 15.97	[2744] 1.6694 1.6733 1.6822 1.6870 1.6937 1.7002 1.7066 1.7129 1.7129 1.7129 1.7121 1.7252 1.7371 1.7252 1.7371 1.7252 1.7371 1.7429 1.7487 1.7543 1.7768 1.7762 1.8266 1.8266 1.8250 1.8255 1.8240 1.9148	1176.5 1181.7 1186.8 1191.9 1202.0 1207.0 1211.9 1226.8 1221.8 1226.8 1221.8 1226.4 1241.5 1246.4 1251.2 1256.1 1256.1 1256.1 1265.1 1309.3 1333.5 1357.8 1382.2 1406.8	9.28 9.43 9.57 9.71 10.28 10.42 10.56 10.70 10.83 10.97 11.11 11.24 11.38 11.52 11.65 12.32 12.99 13.65 14.31 14.97 15.62	[275.8] 1.66766 1.6775 1.6843 1.6976 1.6976 1.6976 1.703 1.7103 1.7165 1.7226 1.7226 1.7236 1.7236 1.7245 1.7245 1.7444 1.7471 1.7518 1.7574 1.7574 1.7659 1.7737 1.7936 1.8241 1.8476 1.8245 1.8245 1.9123	1176.2 1181.4 1186.5 1191.6 1196.7 1201.8 1206.8 1211.8 1226.7 1226.6 1221.7 1226.6 1231.5 1241.4 1246.2 1251.1 1256.0 1260.8 1285.0 1309.2 1333.5 1357.8 1382.2 1406.8	9.08 9.22 9.36 9.50 9.78 9.92 10.06 10.19 10.33 10.46 10.60 10.73 10.87 11.00 11.13 11.27 11.40 12.06 12.71 13.36 14.00 14.65 15.29	[277.1] 1.66599 1.6749 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.7139 1.7201 1.7201 1.7201 1.7201 1.7201 1.7217 1.7436 1.7493 1.7493 1.7493 1.7494 1.7658 1.7712 1.7712 1.8277 1.8277 1.8252 1.8676 1.8891 1.9099	1175.9 1181.1 1186.3 1191.4 1196.5 1201.6 1211.6 1211.6 1221.5 1226.4 1231.4 1236.3 1241.2 1241.2 1246.1 1255.8 1260.7 1285.0 1309.2 1333.4 1357.7 1382.2 1406.8	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.64 10.77 10.90 11.03 11.16 11.80 12.44 13.08 13.71 14.34 14.97	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7052 1.7114 1.7236 1.7295 1.7235 1.7295 1.7354 1.7411 1.7468 1.7524 1.7688 1.7524 1.7688 1.7688 1.7688 1.7688 1.7688 1.7688 1.7688 1.7688 1.7688 1.7688 1.7688 1.7688 1.7688 1.7688 1.7688 1.76947 1.8193 1.8428 1.8468 1.8868 1.9076	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1221.3 1226.3 1231.2 1236.2 1241.1 1246.0 1250.8 1255.7 1260.6 1284.9 1309.1 1333.3 1357.6 1382.1 1406.7
Sat. 280 290 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 550 600 650 700	9.49 9.64 9.79 9.94 10.08 10.23 10.37 10.51 10.66 10.80 10.94 11.08 11.22 11.36 11.50 11.64 11.77 11.91 12.60 13.28 13.95 14.63 15.30	[274.4] I.6694 I.6733 I.6802 I.6870 I.6937 I.7002 I.7066 I.7129 I.7191 I.7252 I.7371 I.7252 I.7371 I.7429 I.7487 I.7543 I.7543 I.7564 I.7768 I.7762 I.8021 I.8266 I.8500 I.8725 I.8940	1176.5 1181.7 1186.8 1191.9 1202.0 1207.0 1211.9 1221.8 1226.8 1221.8 1226.8 1231.7 1236.6 1241.5 1246.4 1251.2 1246.4 1255.1 1246.4 1255.1 1309.3 1333.5 1357.8 1382.2	9.28 9.43 9.57 9.71 9.86 10.00 10.14 10.28 10.56 10.70 10.83 10.97 11.11 11.24 11.38 11.52 11.65 12.32 12.99 13.65 14.31 14.97	[275.8] 1.66766 1.6775 1.6843 1.6910 1.6976 1.7040 1.7103 1.7165 1.7226 1.7245 1.7245 1.7345 1.7345 1.7404 1.7471 1.7518 1.7574 1.7578 1.7574 1.7598 1.7574 1.7596 1.8241 1.8476 1.8476 1.8915	1176.2 1181.4 1186.5 1191.6 1201.8 1206.8 1211.8 1216.7 1221.7 1221.7 1226.5 1231.5 1231.5 1241.4 1246.2 1251.1 1256.0 1260.8 1285.0 1309.2 1333.5 1357.8 1382.2	9.08 9.22 9.36 9.50 9.64 9.78 9.92 10.06 10.13 10.33 10.46 10.60 10.73 10.87 11.00 11.13 11.27 11.40 12.06 12.71 13.36 14.00 14.65	[277.1] 1.66599 1.6749 1.6817 1.6884 1.6949 1.7014 1.7077 1.7139 1.7201 1.7201 1.7201 1.7320 1.7320 1.7379 1.7436 1.7493 1.7493 1.7493 1.7549 1.7658 1.7712 1.7971 1.8217 1.8217 1.8452 1.8676 1.8891	1175.9 1181.1 1186.3 1191.4 1196.5 1201.5 1201.5 1201.5 1221.5 1221.5 1221.5 1221.5 1221.4 1231.4 1231.4 1236.3 1241.2 1246.1 1255.8 1260.7 1285.0 1309.2 1333.4 1357.7 1382.2	8.90 9.03 9.16 9.30 9.43 9.57 9.71 9.84 9.98 10.11 10.24 10.37 10.51 10.64 10.77 10.90 11.03 11.16 11.80 12.44 13.08 13.71 14.34	[278.4] 1.6642 1.6653 1.6723 1.6791 1.6858 1.6924 1.7052 1.7144 1.7236 1.7236 1.7295 1.7254 1.7295 1.7354 1.7411 1.7468 1.7579 1.7524 1.7579 1.7688 1.7544 1.7588 1.7947 1.8193 1.8488 1.8652 1.8868	1175.7 1180.9 1186.0 1191.1 1196.2 1201.3 1206.4 1211.4 1221.3 1226.3 1231.2 1236.2 1241.1 1246.0 1250.8 1255.7 1260.6 1284.9 1309.1 1333.3 1357.6 1382.1

Pres- sure		49 [279.7]			50 [281.0]			51 [282.3]			52 [283.5]	
Temp °F.	V	S	i	v	S	i	v	S	i	v	S	i
Sat.	8.69	1.6625	1175.2	8.53	1.6609	1175.6	8.37	1.6593	1176.0	8.22	1.6577	1176.4
290	8.83	1.6697	1180.6	8.65	1.6672	1180.3	8.47	1.6647	1180.1	8.31	1.6623	1179.8
300 310	8.97 9.10	1.6766 1.6833	1185.8 1190.9	8.78 8.91	1.6741 1.6808	1185.5 1190.7	8.60 8.73	1.6716 1.6784	1185.3 1190.4	8.43	1.6692 1.6760	1185.0 1190.2
320	9.24	1.6899	1196.0	9.05	1.6874	1195.8	8.86	1.6850	1195.6	8.69	1.6826	1195.4
330 340	9.37 9.50	1.6964 1.7027	1201.1 1206.2	9.18 9.31	1.6939 1.7003	1200.9 1206.0	8.99 9.12	1.6915 1.6979	1200.7 1205.8	8.82 8.94	1.6891 1.6956	1200.5 1205.6
350	9.64	1.7090	1211.2	9.44	1.7066	1211.0	9.25	1.7042	1210.8	9.07	1.7018	1210.6
360	9.77	1.7151	1216.2	9.57	1.7127	1216.0	9.38	1.7103	1215.8	9.19	1.7080	1215.6
370	9.90	1.7212	1221.1	9.70	1.7188	1221.0	9.50	1.7164	1220.8	9.32	1.7141	1220.6
380 390	10.03 10.16	1.7271 1.7330	1226.1 1231.1	9.82	1.7247 1.7306	1225.9	9.63 9.75	1.7224	1225.8 1230.7	9.44 9.56	1.7201 1.72бо	1225.6
390	10.10	1.7330	1231.1	9.95	1.7300	1230.9	9.75	1.7203	1230.7	9.50	1.7200	1230.0
400	10.29	1.7387	1236.0	10.08	1.7364	1235.9	9.88	1.7340	1235.7	9.68	1.7317	1235.6
410	10.42	1.7444	1240.9	10.20	1.7421	1240.8	10.00	1.7397	1240.6	9.81	1.7374	1240.5
420	10.55	1.7500	1245.8	10.33	1.7477	1245.7	10.13	1.7454	1245.6	9.93	1.7431	1245.4
430	10.67	1.7555	1250.7	10.46	1.7532	1250.6	10.25	1.7509	1250.5	10.05	1.7486	1250.3
440	10.80	1.7610	1255.6	10.58	1.7587	1255.5	10.37	1.7564	1255.3	10.17	1.7541	1255.2
450	10.93	1.7664	1260.5	10.71	1.7641	1260.4	10.50	1.7618	1260.2	10.29	1.7595	1260.1
460	11.06	1.7717	1265.3	10.83	1.7694	1265.2	10.62	1.7671	1265.1	10.41	1.7649	1265.0
470	11.18	1.7770	1270.2	10.96	1.7747	1270.1	10.74	1.7724	1270.0	10.53	1.7702	1269.9
480	11.31	1.7822	1275.0	11.08	1.7799	1274.9	10.86	1.7776	1274.9	10.65	1.7754	1274.8
490	11.44	1.7873	1279.9	11.20	1.7850	1279.8	10.98	1.7827	1279.7	10.77	1.7805	1279.6
500	11.56	1.7924	1284.8	11.33	1.7901	1284.7	11.10	1.7878	1284.6	10.89	1.7856	1284.5
550	12.19	1.8170	1309.0	11.94	1.8147	1308.9	11.71	1.8125	1308.9	11.48	1.8103	1308.8
600	12.81	1.8405	1333.3	12.55	1.8382	1333.2	12.31	1.8360	1333.2	12.07	1.8338	1333.1
650	13.43	1.8629	1357.6	13.16	1.8607	1357.5	12.90	1.8585	1357.5	12.65	1.8563	1357.4
									1			

		53 [284.7]			54 [285.9]			55 [287.1]			56 [288.2]	
Sat.	8.07	1.6562	1176.7	7.93	1.6547	1177.1	7.80	1.6532	1177.5	7.67	1.6517	1177.8
290	8.14	1.6599	1179.5	7.99	1.6576	1179.3	7.84	1.6553	1179.0	7.69	1.6530	1178.7
300	8.27	1.6668	1184.8	8.11	1.6645	1184.5	7.96	1.6622	1184.3	7.81	1.6600	1184.0
310	8.40	1.6736	1190.0	8.23	1.6713	1189.7	8.08	1.6690	1189.5	7.93	1.6668	1189.2
320	8.52	1.6803	1195.1	8.36	1.6780	1194.9	8.20	1.6757	1194.7	8.05	1.6735	1194.4
330	8.64	1.6868	1200.3	8.48	1.6846	1200.0	8.32	1.6823	1199.8	8.17	1.6801	1199.6
340	8.77	1.6933	1205.4	8.60	1.6910	1205.1	8.44	1.6888	1204.9	8.29	1.6866	1204.7
350	8.89	1.6995	1210.4	8.72	1.6973	1210.2	8.56	1.6951	1210.0	8.40	1.6929	1209.8
360	9.02	1.7057	1215.4	8.84	1.7035	1215.2	8.68	1.7013	1215.1	8.52	1.6991	1214.9
370	9.14	1.7118	1220.4	8.96	1.7096	1220.3	8.80	1.7074	I220.I	8.64	1.7053	1219.9
380	9.26	1.7178	1225.4	9.08	1.7156	1225.3	8.92	1.7134	1225.1	8.75	1.7113	1224.9
390	9.38	1.7237	1230.4	9.20	1.7215	1230.3	9.03	1.7193	1230.1	8.87	1.7172	1229.9
400												
400	9.50	1.7295	1235.4	9.32	1.7273	1235.3	9.15	1.7251	1235.1	8.98	1.7230	1234.9
410	9.62	1.7352	1240.4	9.44	1.7330	1240.2	9.26	1.7308	1240.1	9.09	1.7287	1239.9
420	9.74	1.7409	1245.3	9.55	1.7387	1245.1	9.38	1.7365	1245.0	9.21	1.7344	1244.9
430	9.86	1.7464	1250.2	9.67	I.7442	1250.1	9.49	1.7421	1249.9	9.32	1.7400	1249.8
440	9.98	1.7519	1255.1	9.79	1.7497	1255.0	9.61	1.7476	1254.8	9.43	1.7455	1254.7
450	10.09	1.7573	1260.0	0.00				-	× + + 0 0			T
460	10.09	1.7627	1264.9	9.90 10.02	1.7551	1259.9 1264.8	9.72	1.7530	1259.8	9.55 9.66	1.7509 1.7563	1259.6
400	10.21	1.7680	1264.9	10.02	1.7658	1204.8	9.84 9.95	1.7584	1264.7 1269.6	9.00	1.7616	1269.4
480	10.45	I.7732	1209.8	10.14	1.7710	1209.7	9.95	1.7689	1209.0	9.77	1.7668	1209.4
490	10.56	1.7783	1279.5	10.25	1.7762	1274.0	10.18	1.7741	1279.3	9.00	1.7720	1279.2
430	10.30	11/103	12/9.3	10.37	1.7702	12/9.4	10.10	1.//41	12/9.3	9.99	1.7720	12/9.2
500	10.68	1.7834	1284.4	10.48	1.7813	1284.3	10.29	1.7792	1284.2	10.10	1.7771	1284.1
550	11.26	1.8081	1308.7	11.05	1.8060	1308.6	10.85	1.8039	1308.5	10.65	1.8018	1308.5
600	12.84	1.8316	1333.0	11.62	1.8295	1332.9	11.41	1.8274	1332.9	11.20	1.8254	1332.8
650	13.41	1.8541	1357.4	12.18	1.8520	1357.3	11.96	1.8500	1357.3	11.75	1.8479	1357.2
	1											

Pres- sure		57 [289.4]			58 [290.5]			59 [291.6]			60 [292.7]	
Temp °F.	v	8	i	v	S	1	V	8	i	۷	8	i
Sat.	7.54	1.6503	1178.1	7.42	1.6489	1178.5	7.30	1.6475	1178.8	7.18	1.6462	1179.1
300	7.67	1.6578	1183.8	7.53	1.6556	1183.5	7.40	1.6534	.1183.2	7.27	1.6513	1183.0
310	7.79	1.6646	1189.0	7.65	1.6624	1188.8	7.51	1.6603	1188.5	7.38	1.6582	1188.3
320	7.90	1.6713	1194.2	7.76	1.6692	1194.0	7.63	1.6671	1193.8	7.49	1.6650	1193.5
330	8.02	1.6779	1199.4	7.88	1.6758	1199.2	7.74	1.6737	1199.0	7.61	1.6716	1198.7
340	8.14	1.6844	1204.5	7.99	1.6823	1204.3	7.85	1.6802	1204.1	7.72	1.6781	1203.9
350	8.25	1.6907	1209.6	8.10	1.6886	1209.4	7.96	1.6865	1209.2	7.83	1.6845	1209.0
360	8.37	1.6970	1214.7	8.22	1.6949	1214.5	8.08	1.6928	1214.3	7.94	1.6908	1214.1
370	8.48	1.7031	1219.7	8.33	1.7010	1219.6	8.19	1.6990	1219.4	8.05	1.6970	1219.2
380	8.59	1.7091	1224.8	8.44	1.7070	1224.6	8.30	1.7050	1224.4	8.16	1.7030	1224.3
390	8.71	1.7151	1229.8	8.56	1.7130	1229.6	8.41	1.7110	1229.5	8.26	1.7090	1229.3
400	8.82	1.7209	1234.8	8.67	1.7188	1234.6	8.52	1.7168	1234.5	8.37	1.7148	1234.3
410	8.93	1.7266	1239.8	8.78	1.7246	1239.6	8.62	1.7226	1239.5	8.48	1.7206	1239.3
420	9.04	1.7323	1244.7	8.88	1.7303	1244.6	8.73	1.7283	1244.4	8.58	1.7263	1244.3
430	9.15	1.7379	1249.6	8.99	1.7359	1249.5	8.84	1.7339	1249.4	8.69	1.7319	1249.2
440	9.27	1.7434	1254.6	9.10	1.7414	1254.5	8.95	1.7394	1254.3	8.80	1.7374	1254.2
450	9.38	1.7488	1259.5	9.21	1.7468	1259.4	9.05	1.7448	1259.3	8.90	1.7429	1259.1
460	9.49	1.7542	1264.4	9.32	1.7522	1264.3	9.16	1.7502	1264.2	9.01	1.7483	1264.1
470	9.60	1.7595	1269.3	9.43	1.7575	1269.2	9.27	1.7555	1269.1	9.11	1.7536	1269.0
480	9.71	1.7648	1274.2	9.54	1.7628	1274.1	9.37	1.7608	1274.0	9.21	1.7588	1273.9
490	9.81	1.7700	1279.1	9.64	J.7680	1279.0	9.48	1.7660	1278.9	9.32	1.7640	1278.8
500	9.92	1.7751	1284.0	9.75	1.7731	1283.9	9.58	1.7711	1283.8	9.42	1.7692	1283.7
550	10.46	1.7998	1308.4	10.28	1.7978	1308.3	10.11	1.7959	1308.2	9.94	1.7940	1308.1
600	11.00	1.8234	1332.7	10.81	1.8214	1332.7	10.63	1.8195	1332.6	10.45	1.8176	1332.5
650	11.54	1.8459	1357.2	11.34	1.8440	1357.1	11.15	1.8421	1357.1	10.96	1.8402	1357.0
700	12.07	1.8675	1381.7	11.86	.1.8656	1381.7	11.66	1.8637	1381.6	11.47	1.8618	1381.6
		61 [293.8]			62 [294.9]			63 [295.9]			64 [296.9]	
Sat.	7.07	1.6448	1179.4	6.97	1.6435	1179.7	6.86	1.6422	1180.0	6.76	1.6409	1180.3

Sat.	7.07	1.6448	1179.4	6.97	1.6435	1179.7	6.86	1.6422	1180.0	6.76	1.6409	1180.3
300	7.15	1.6492	1182.7	7.02	1.6471	1182.5	6.91	1.6451	1182.2	6.80	1.6431	1181.9
310	7.26	1.6561	1188.0	7.13	1.6541	1187.8	7.02	1.6521	1187.5	6.90	1.6501	1187.3
320	7.37	1.6629	1193.3	7.24	1.6609	1193.1	7.12	1.6589	1192.8	7.01	1.6569	1192.6
330	7.48	1.6696	1198.5	7.35	1.6676	1198.3	7.23	1.6656	1198.1	7.11	1.6636	1197.9
340	7.59	1.6761	1203.7	7.46	1.6741	1203.5	7.34	1.6721	1203.3	7.22	1.6702	1203.1
350	7.70	1.6825	1208.8	7.57	1.6805	1208.6	7.45	1.6785	1208.4	7.32	1.6766	1208.2
360	7.80	1.6888	1213.9	7.67	1.6868	1213.7	7.55	1.6848	1213.6	7.43	1.6829	1213.4
370	7.91	1.6950	1219.0	7.78	1.6930	1218.8	7.65	1.6910	1218.7	7.53	1.6891	1218.5
380	8.02	1.7010	1224.1	7.89	1.6990	1223.9	7.76	1.6971	1223.8	7.63	1.6952	1223.6
390	8.12	1.7070	1229.1	7.99	1.7050	1229.0		1.7031	1228.8	7.73	1.7012	1228.6
400	8.23	1.7128	1234.2	8.09	1.7109	1234.0	7.96	1.7090	1233.9	7.84	1.7071	1233.7
410	8.34	1.7186	1239.2	8.20	1.7167	1239.0	8.06	1.7148	1238.9	7.94	1.7129	1238.7
420	8.44	1.7243	1244.2	8.30	1.7224	1244.0	8.17	1.7205	1243.9	8.04	1.7187	1243.7
430	8.54	1.7299	1249.1	8.40	1.7280	1249.0	8.27	1.7261	1248.8	8.14	1.7243	1248.7
440	8.65	1.7355	1254.1	8.51	1.7336	1253.9	8.37	1.7317	1253.8	8.24	1.7298	1253.7
450	8.75	1.7409	1259.0	8.61	1.7390	1258.9	8.47	1.7372	1258.8	8.34	1.7353	1258.6
460	8.86	1.7463	1264.0	8.71	1.7444	1263.8	8.57	1.7426	1263.7	8.44	1.7407	1263.6
470	8.96	1.7516	1268.9	8.81	1.7497	1268.8	8.67	1.7479	1268.7	8.53	1.7461	1268.5
480	9.06	1.7569	1273.8	8.91	1.7550	1273.7	8.77	1.7532	1273.6	8.63	1.7514	1273.5
490	9.16	1.7621	1278.7	9.01	1.7602	1278.6	8.87	1.7584	1278.5	8.73	1.7566	1278.4
500	9.27	1.7672	1283.6	9.11	1.7654	1283.5	8.97	1.7635	1283.4	8.83	1.7617	1283.3
550	9.77	1.7921	1308.1	9.61	1.7902	1308.0	9.46	1.7884	1307.9	9.31	1.7866	1307.8
600	10.28	1.8157	1332.5	10.11	1.8139	1332.4	9.95	1.8121	1332.4	9.79	1.8103	1332.3
650	10.78	1.8383	1357.0	10.60	1.8365	1356.9	10.43	1.8347	1356.9	10.27	1.8329	1356.8
700	11.28	1.8599	1381.5	11.09	1.8581	1381.5	10.92	1.8563	1381.4	10.75	1.8546	1381.4

Pres- sure		65 [298.0]			66 [299.0]	8		67 [300.0]			68 [301.0]	
Temp °F.	v	s	i	v	s	i	v	8	i	v	s	i
Sat.	6.66	1.6397	1180.6	6.57	1.6384	1180.9	6.48	1.6372	1181.2	6.39	1.6360	1181.5
310	6.79	1.6481	1187.1	6.69	1.6461	1186.8	6.58	1.6442	1186.6	6.48	1.6423	1186.3
320	6.90 7.00	1.6550	1192.4	6.79 6.89	1.6530	1192.1 1197.4	6.68 6.78	1.6511	1191.9 1197.2	6.58 6.68	1.6492 1.6560	1191.7 1197.0
330 340	7.11	1.6682	1202.8	6.99	1.6663	1202.6	6.88	1.6645	1202.4	6.78	1.6626	1202.2
350	7.21	1.6747	1208.0	7.10	1.6728	1207.8	6.98	1.6710	1207.6	6.88	1.6691	1207.4
360	7.31	1.6810	1203.0	7.20	1.6791	1207.0	7.08	1.6773	1207.0	6.98	1.6755	1212.6
370	7.41	1.6872	1218.3	7.30	1.6854	1218.1	7.18	1.6835	1217.9	7.07	1.6817	1217.8
380 390	7.51 7.61	1.6933 1.6993	1223.4 1228.5	7.40	1.6915 1.6975	1223.2	7.28	1.6897 1.6957	1223.0 1228.1	7.17	1.6879 1.6939	1222.9
		1.0993	122013	7.49	1.0975	1220.3	1.30	1.0937	122011	11		
400	7.71 7.81	1.7052 1.7111	1233.5 1238.6	7.59	1.7034	1233.4	7.48	1.7016	1233.2 1238.3	7.36	1.6998	1233.1 1238.1
410 420	7.91	1.7168	1230.0	7.69	1.7093 1.7150	1238.4	7.57 7.67	1.7075 1.7132	1230.3	7.46	1.7114	1230.1
430	8.01	1.7225	1248.6	7.89	1.7207	1248.4	7.77	1.7189	1248.3	7.65	1.7171	1248.2
440	8.11	1.7280	1253.6	7.98	1.7262	1253.4	7.86	1.7244	1253.3	7.74	1.7227	1253.2
450	8.21	1.7335	1258.5	8.08	1.7317	1258.4	7.96	1.7299	1258.3	7.84	1.7282	1258.1
460	8.30	1.7389	1263.5	8.18	1.7371	1263.4	8.05	1.7354	1263.2	7.93	1.7336	1263.1
470	8.40	1.7443	1268.4	8.27	1.7425 1.7478	1268.3	8.14 8.24	1.7407	1268.2	8.02 8.12	1.7390	1268.1 1273.0
480 490	8.50 8.59	1.7496	1273.4	8.37 8.46	1.7530	1273.3 1278.2	8.33	1.7460	1273.1 1278.1	8.21	1.7443 1.7495	1278.0
		2										
500	8.69 9.17	1.7599 1.7848	1283.2 1307.7	8.56 9.03	1.7581 1.7831	1283.1 1307.7	8.43 8.89	1.7564	1283.0 1307.6	8.30 8.76	1.7547 1.7797	1282.9 1307.5
550 600	9.64	1.8085	1332.2	9.03	1.8068	1307.7	9.35	1.8051	1332.1	9.21	1.8034	1332.0
650	10.11	1.8311	1356.7	9.96	1.8294	1356.7	9.81	1.8277	1356.6	9.66	1.8260	1356.6
700	10.58	1.8528	1381.3	10.42	1.8511	1381.3	10.26	1.8494	1381.2	10.11	1.8478	1381.2
750	11.05	1.8737	1406.1	10.88	1.8720	1406.1	10.72	1.8703	1406.0	10.56	1.8687	1406.0
		69 [302.0]			70			71			72	
Sat.	6.30	[302.0]	1181.7	6.22	70 [302.9] 1.6336	1182.0	6.13	71 [303.9] 1.6324	1182.3	6.05	[304.8]	1182.5
	6.30	[302.0] 1.6348			[302.9] 1.6336	1.12	2.	[303.9] 1.6324			[304.8] 1.6313	1182.5
310	6.38	[302.0] 1.6348 1.6405	1186.1	6.29	[302.9] 1.6336 1.6386	1185.8	6.19	[303.9] 1.6324 1.6368	1185.6	6.10	[304.8] 1.6313 1.6350	1185.3
310 320		[302.0] 1.6348			[302.9] 1.6336	1.12	2.	[303.9] 1.6324			[304.8] 1.6313 1.6350 1.6420 1.6488	
310	6.38 6.48	[302.0] 1.6348 1.6405 1.6474	1186.1 1191.4	6.29 6.38	[302.9] 1.6336 1.6386 1.6456	1185.8 1191.2	6.19 6.29	[303.9] 1.6324 1.6368 1.6438	1185.6 1191.0	6.10 6.20	[304.8] 1.6313 1.6350 1.6420	1185.3 1190.7
310 320 330 340 350	6.38 6.48 6.58	[302.0] 1.6348 1.6405 1.6474 1.6542 1.6608 1.6673	1186.1 1191.4 1196.7	6.29 6.38 6.48	[302.9] 1.6336 1.6386 1.6456 1.6524 1.6590 1.6655	1185.8 1191.2 1196.5	6.19 6.29 6.39	[303.9] 1.6324 1.6368 1.6438 1.6506	1185.6 1191.0 1196.3	6.10 6.20 6.30	[304.8] 1.6313 1.6350 1.6420 1.6488	1185.3 1190.7 1196.1
310 320 330 340 350 360	6.38 6.48 6.58 6.68 6.78 6.87	[302.0] 1.6348 1.6405 1.6474 1.6542 1.6608 1.6673 1.6737	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4	6.29 6.38 6.48 6.58 6.68 6.77	[302.9] 1.6336 1.6386 1.6456 1.6524 1.6590 1.6655 1.6719	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2	6.19 6.29 6.39 6.48 6.58 6.67	[303.9] 1.6324 1.6368 1.6438 1.6506 1.6572 1.6638 1.6702	1185.6 1191.0 1196.3 1201.6 1206.8 1212.0	6.10 6.20 6.30 6.39 6.48 6.58	[304.8] 1.6313 1.6350 1.6420 1.6488 1.6554 1.6620 1.6684	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8
310 320 330 340 350 360 370	6.38 6.48 6.58 6.68 6.78 6.87 6.97	[302.0] 1.6348 1.6405 1.6474 1.6542 1.6608 1.6673 1.6737 1.6799	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6	6.29 6.38 6.48 6.58 6.68 6.77 6.87	[302.9] 1.6336 1.6386 1.6456 1.6524 1.6590 1.6655 1.6719 1.6781	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4	6.19 6.29 6.39 6.48 6.58 6.67 6.77	[303.9] 1.6324 1.6368 1.6438 1.6506 1.6572 1.6638 1.6702 1.6764	1185.6 1191.0 1196.3 1201.6 1206.8 1212.0 1217.2	6.10 6.20 6.30 6.39 6.48 6.58 6.67	[304.8] 1.6313 1.6350 1.6420 1.6488 1.6554 1.6620 1.6684 1.6747	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0
310 320 330 340 350 360	6.38 6.48 6.58 6.68 6.78 6.87	[302.0] 1.6348 1.6405 1.6474 1.6542 1.6608 1.6673 1.6737	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4	6.29 6.38 6.48 6.58 6.68 6.77	[302.9] 1.6336 1.6386 1.6456 1.6524 1.6590 1.6655 1.6719	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2	6.19 6.29 6.39 6.48 6.58 6.67	[303.9] 1.6324 1.6368 1.6438 1.6506 1.6572 1.6638 1.6702	1185.6 1191.0 1196.3 1201.6 1206.8 1212.0	6.10 6.20 6.30 6.39 6.48 6.58	[304.8] 1.6313 1.6350 1.6420 1.6488 1.6554 1.6620 1.6684	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8
310 320 330 340 350 360 370 380 390	6.38 6.48 6.58 6.68 6.78 6.87 6.97 7.07 7.17	[302.0] 1.6348 1.6474 1.6542 1.6673 1.6737 1.6799 1.6861 1.6921	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1227.8	6.29 6.38 6.48 6.58 6.68 6.77 6.87 6.96 7.06	[302.9] 1.6336 1.6386 1.6456 1.6524 1.6529 1.6655 1.6719 1.6781 1.6843 1.6904	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7	6.19 6.29 6.39 6.48 6.58 6.67 6.77 6.86 6.96	[303.9] 1.6324 1.6368 1.6438 1.6506 1.6572 1.6638 1.6702 1.6764 1.6887	1185.6 1191.0 1196.3 1201.6 1206.8 1212.0 1217.2 1222.4 1227.5	6.10 6.20 6.30 6.39 6.48 6.58 6.67 6.76 6.86	[304.8] 1.6313 1.6350 1.6420 1.6488 1.6554 1.6620 1.6684 1.6747 1.6809 1.6870	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3
310 320 330 340 350 360 370 380 390 400	6.38 6.48 6.58 6.68 6.78 6.87 6.97 7.07 7.17 7.26	[302.0] 1.6348 1.6405 1.6474 1.6542 1.6608 1.6673 1.6737 1.6799 1.6861 1.6921 1.6981	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1227.8 1232.9	6.29 6.38 6.48 6.58 6.68 6.77 6.87 6.96 7.06 7.15	[302.9] 1.6336 1.6386 1.6456 1.6524 1.6590 1.6655 1.6719 1.6781 1.6843 1.6904 1.6964	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8	6.19 6.29 6.39 6.48 6.58 6.67 6.77 6.86 6.96 7.05	[303.9] 1.6324 1.6368 1.6438 1.6506 1.6572 1.6638 1.6702 1.6764 1.6826 1.6887 1.6946	1185.6 1191.0 1196.3 1201.6 1206.8 1212.0 1217.2 1222.4 1227.5 1232.6	6.10 6.20 6.30 6.39 6.48 6.58 6.67 6.76 6.86 6.95	[304.8] 1.6313 1.6350 1.6420 1.6428 1.6554 1.6620 1.6684 1.6747 1.6809 1.6870 1.6929	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4
310 320 330 340 350 360 370 380 390 400 410	6.38 6.48 6.58 6.68 6.78 6.87 6.97 7.07 7.17	[302.0] 1.6348 1.6474 1.6542 1.6673 1.6737 1.6799 1.6861 1.6921	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1227.8	6.29 6.38 6.48 6.58 6.68 6.77 6.87 6.96 7.06	[302.9] 1.6336 1.6386 1.6456 1.6524 1.6529 1.6655 1.6719 1.6781 1.6843 1.6904	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7	6.19 6.29 6.39 6.48 6.58 6.67 6.77 6.86 6.96	[303.9] 1.6324 1.6368 1.6438 1.6506 1.6572 1.6638 1.6702 1.6764 1.6887	1185.6 1191.0 1196.3 1201.6 1206.8 1212.0 1217.2 1222.4 1227.5	6.10 6.20 6.30 6.39 6.48 6.58 6.67 6.76 6.86	[304.8] 1.6313 1.6350 1.6420 1.6488 1.6554 1.6620 1.6684 1.6747 1.6899 1.6870	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5
310 320 330 340 350 360 370 380 390 400 410 420 430	6.38 6.48 6.58 6.68 6.78 6.87 6.97 7.07 7.17 7.26 7.35 7.44 7.54	[302.0] 1.6348 1.6475 1.6474 1.6542 1.6658 1.6673 1.6739 1.6799 1.6861 1.6921 1.6981 1.7040 1.7097 1.7154	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1227.8 1232.9 1238.0 1243.0 1248.0	6.29 6.38 6.48 6.58 6.68 6.77 6.87 6.96 7.06 7.15 7.24 7.33 7.43	[302.9] 1.6336 1.6356 1.6524 1.659 1.6655 1.6781 1.6843 1.6904 1.6964 1.7023 1.7080 1.7037	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8 1237.8 1232.8 1237.8 1242.9 1247.9	6.19 6.29 6.39 6.48 6.58 6.67 6.77 6.86 6.96 7.05 7.14 7.23 7.32	[303.9] 1.6324 1.6324 1.6438 1.6556 1.6572 1.6638 1.6762 1.6764 1.6826 1.6887 1.6887 1.6946 1.7005 1.7063 1.7120	1185.6 1191.0 1196.3 1201.6 1206.8 1212.0 1217.2 1222.4 1222.5 1232.6 1232.7 1232.6 1237.7 1242.7 1247.7	6.10 6.20 6.30 6.39 6.48 6.58 6.67 6.76 6.86 6.95 7.04 7.13 7.22	[304.8] 1.6313 1.6350 1.6420 1.6420 1.6554 1.6554 1.6520 1.6620 1.6684 1.6747 1.6809 1.6870 1.6929 1.6929 1.6928 1.7046 1.703	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6 1247.6
310 320 330 340 350 360 370 380 390 400 410 420	6.38 6.48 6.58 6.68 6.78 6.87 6.97 7.07 7.17 7.26 7.35 7.44	[302.0] 1.6348 1.6405 1.6474 1.6542 1.6673 1.6737 1.6799 1.6861 1.6921 1.6981 1.7040 1.7047	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1227.8 1232.9 1238.0 1243.0	6.29 6.38 6.48 6.58 6.68 6.77 6.87 6.96 7.06 7.15 7.24 7.33	$\begin{bmatrix} 302.9 \end{bmatrix}$ 1.6336 1.6456 1.6524 1.6590 1.6655 1.6719 1.6781 1.6843 1.6904 1.6964 1.7023 1.7080	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8 1237.8 1242.9	6.19 6.29 6.39 6.48 6.58 6.67 6.77 6.86 6.96 7.05 7.14 7.23	[303.9] 1.6324 1.6368 1.6438 1.6506 1.6572 1.6638 1.6702 1.6702 1.6764 1.6826 1.6887 1.69846 1.7005 1.7005	1185.6 1191.0 1196.3 1201.6 1206.8 1212.0 1217.2 1222.4 1227.5 1232.6 1237.7 1242.7	6.10 6.20 6.30 6.39 6.48 6.58 6.58 6.76 6.76 6.86 6.86 6.95 7.04 7.13	[304.8] 1.6313 1.6320 1.6420 1.6488 1.6554 1.6620 1.6684 1.6747 1.6809 1.6870 1.6929 1.6988 1.7046	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6
310 320 330 340 350 360 370 380 390 400 410 420 430 440 450	6.38 6.48 6.58 6.68 6.78 6.97 7.07 7.17 7.26 7.35 7.44 7.54 7.63 7.72	[302.0] 1.6348 1.6405 1.6473 1.6542 1.6673 1.6737 1.6799 1.6861 1.6921 1.6981 1.7040 1.7097 1.7154 1.7210 1.7265	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1222.8 1232.9 1238.0 1243.0 1248.0 1253.0	6.29 6.38 6.48 6.58 6.68 6.67 6.87 6.96 7.06 7.15 7.24 7.33 7.43 7.52 7.61	[302.9] 1.6336 1.6456 1.6524 1.6559 1.6655 1.6719 1.6719 1.6781 1.6843 1.6904 1.6964 1.7023 1.7080 1.7137 1.7193 1.7248	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8 1237.8 1242.9 1247.9 1252.9	6.19 6.29 6.39 6.48 6.58 6.58 6.57 6.77 6.86 6.96 7.05 7.14 7.23 7.32 7.41 7.50	[303.9] 1.6324 1.6324 1.6356 1.6576 1.6572 1.6638 1.6702 1.6764 1.6826 1.6887 1.7053 1.7063 1.7053 1.7120 1.7176 1.7231	1185.6 1191.0 1196.3 1201.6 1217.2 1227.4 1227.5 1232.6 1237.7 1242.7 1242.7 1242.7 1242.7 1252.8	6.10 6.20 6.30 6.39 6.48 6.67 6.76 6.86 6.95 7.04 7.13 7.22 7.31 7.39	[304.8] 1.6313 1.6320 1.6420 1.6428 1.6554 1.6620 1.6684 1.6747 1.6809 1.6870 1.6929 1.6988 1.7046 1.7103 1.7159 1.7214	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6 1247.6 1252.6
310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460	6.38 6.48 6.58 6.78 6.77 6.97 7.07 7.17 7.26 7.35 7.44 7.54 7.63 7.72 7.81	[302.0] 1.6348 1.6474 1.6542 1.6542 1.6673 1.6737 1.6737 1.6739 1.6861 1.6921 1.6981 1.7040 1.7047 1.7154 1.7210 1.7265 1.7319	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1227.8 1238.0 1243.0 1243.0 1248.0 1253.0 1258.0 1258.0	6.29 6.38 6.48 6.58 6.68 6.77 6.87 7.06 7.06 7.15 7.24 7.33 7.43 7.52 7.61 7.70	[302.9] 1.6336 1.6336 1.6456 1.6559 1.6655 1.6719 1.6719 1.6843 1.6904 1.6904 1.6964 1.7033 1.7080 1.7137 1.7193 1.7248 1.7302	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8 1237.8 1242.9 1247.9 1252.9 1252.9	6.19 6.29 6.39 6.48 6.58 6.58 6.67 6.76 6.76 6.96 7.05 7.14 7.23 7.32 7.41 7.50 7.59	[303.9] 1.6324 1.6368 1.6438 1.6506 1.6572 1.6638 1.6702 1.6702 1.6764 1.6826 1.6887 1.6946 1.7005 1.7063 1.7120 1.7176 1.7231 1.7286	1185.6 1191.0 1196.3 1201.6 1212.0 1217.2 1222.4 1227.5 1232.6 1237.7 1242.7 1242.7 1242.7 1242.7 1242.8 1257.8 1257.8 1262.8	6.10 6.20 6.39 6.48 6.58 6.76 6.86 6.95 7.04 7.13 7.22 7.31 7.39 7.48	[304.8] 1.6313 1.6320 1.6420 1.6428 1.6554 1.6554 1.6682 1.6684 1.6747 1.6809 1.6870 1.6929 1.6988 1.7046 1.7103 1.7159 1.7214 1.7269	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6 1247.6 1252.6 1257.6 1262.6
310 320 340 350 360 370 380 390 400 410 420 430 440 450 460 470	6.38 6.48 6.58 6.68 6.78 6.87 6.97 7.07 7.07 7.17 7.26 7.35 7.44 7.54 7.63 7.72 7.81 7.90	[302.0] 1.6348 1.6405 1.6474 1.6542 1.6608 1.6673 1.6737 1.6799 1.6861 1.7040 1.7040 1.7097 1.7154 1.7210 1.7255 1.7319 1.7373	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1227.8 1232.9 1238.0 1243.0 1248.0 1248.0 1248.0 1253.0 1258.0 1258.0 1258.0	6.29 6.38 6.48 6.58 6.68 6.77 6.87 6.96 7.06 7.15 7.24 7.33 7.43 7.52 7.61 7.70 7.79	[302.9] 1.6336 1.6456 1.6524 1.6524 1.6590 1.6655 1.6719 1.6781 1.6904 1.6904 1.7023 1.7023 1.7137 1.7193 1.7248 1.7356	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8 1237.8 1242.9 1247.9 1247.9 1252.9 1257.9 1252.9	6.19 6.29 6.39 6.48 6.58 6.67 6.76 6.76 6.86 6.96 7.05 7.05 7.14 7.23 7.32 7.41 7.50 7.59 7.68	[303.9] 1.6324 1.6368 1.6566 1.6572 1.6638 1.6702 1.6764 1.6826 1.7005 1.7005 1.7120 1.7126 1.7231 1.7286 1.7339	1185.6 1191.0 1196.3 1201.6 1206.8 1212.0 1217.2 1222.4 1222.4 1222.5 1232.6 1232.7 1242.7 1242.7 1242.7 1242.8 1257.8 1257.8 1262.8 1267.7	6.10 6.20 6.30 6.39 6.48 6.58 6.67 6.76 6.86 6.95 7.04 7.13 7.22 7.31 7.39 7.48 7.57	[304.8] 1.6313 1.6320 1.6420 1.6428 1.6554 1.6620 1.6684 1.6747 1.6809 1.6870 1.6929 1.6988 1.7046 1.7103 1.7159 1.7214 1.7264 1.7264	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6 1247.6 1252.6 1257.6 1262.6 1267.6
310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460	6.38 6.48 6.58 6.78 6.77 6.97 7.07 7.17 7.26 7.35 7.44 7.54 7.63 7.72 7.81	[302.0] 1.6348 1.6474 1.6542 1.6542 1.6673 1.6737 1.6737 1.6739 1.6861 1.6921 1.6981 1.7040 1.7047 1.7154 1.7210 1.7265 1.7319	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1222.7 1227.8 1238.0 1248.0 1248.0 1253.0 1258.0 1258.0	6.29 6.38 6.48 6.58 6.68 6.77 6.87 7.06 7.06 7.15 7.24 7.33 7.43 7.52 7.61 7.70	[302.9] 1.6336 1.6456 1.6456 1.6559 1.6655 1.6719 1.6719 1.6843 1.6904 1.6904 1.7033 1.7080 1.7137 1.7193 1.7248 1.7302	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8 1237.8 1242.9 1247.9 1252.9 1252.9	6.19 6.29 6.39 6.48 6.58 6.58 6.67 6.76 6.76 6.96 7.05 7.14 7.23 7.32 7.41 7.50 7.59	[303.9] 1.6324 1.6368 1.6438 1.6506 1.6572 1.6638 1.6702 1.6702 1.6764 1.6826 1.6887 1.6946 1.7005 1.7063 1.7120 1.7176 1.7231 1.7286	1185.6 1191.0 1196.3 1201.6 1212.0 1217.2 1222.4 1227.5 1232.6 1237.7 1242.7 1242.7 1242.7 1242.7 1242.8 1257.8 1257.8 1262.8	6.10 6.20 6.39 6.48 6.58 6.76 6.86 6.95 7.04 7.13 7.22 7.31 7.39 7.48	[304.8] 1.6313 1.6320 1.6420 1.6428 1.6554 1.6554 1.6682 1.6684 1.6747 1.6809 1.6870 1.6929 1.6988 1.7046 1.7103 1.7159 1.7214 1.7269	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6 1247.6 1252.6 1257.6 1262.6
310 320 330 340 350 350 370 380 390 400 410 420 430 440 450 460 470 480 490	6.38 6.48 6.58 6.68 6.78 6.97 7.07 7.17 7.26 7.35 7.44 7.54 7.63 7.72 7.81 7.90 8.00 8.09	$\begin{bmatrix} 302.0 \end{bmatrix} \\ 1.6348 \\ 1.6405 \\ 1.6474 \\ 1.6542 \\ 1.6568 \\ 1.6673 \\ 1.6737 \\ 1.6799 \\ 1.6861 \\ 1.6921 \\ 1.6921 \\ 1.6981 \\ 1.7040 \\ 1.7097 \\ 1.7154 \\ 1.7210 \\ 1.7255 \\ 1.7319 \\ 1.7273 \\ 1.7426 \\ 1.7478 $	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1222.7 1227.8 1232.9 1238.0 1243.0 1248.0 1248.0 1253.0 1258.0 1263.0 1268.0 1268.0 1272.9 1277.9	6.29 6.38 6.48 6.58 6.68 6.77 6.96 7.06 7.15 7.24 7.33 7.43 7.52 7.61 7.70 7.79 7.88 7.97	[302.9] 1.6336 1.6456 1.6524 1.6590 1.6655 1.6719 1.6781 1.6843 1.6904 1.6964 1.7023 1.7080 1.7137 1.7193 1.7248 1.7356 1.7409 1.7401	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8 1237.8 1242.9 1247.9 1252.9 1252.9 1257.9 1262.9 1267.8 1272.8 1277.8	6.19 6.29 6.39 6.48 6.58 6.57 6.77 6.86 6.96 7.05 7.14 7.23 7.32 7.41 7.50 7.59 7.68 7.77 7.86	[303.9] 1.6324 1.6324 1.6326 1.6526 1.6572 1.6638 1.6702 1.6702 1.6704 1.6826 1.6887 1.7063 1.7005 1.7063 1.7120 1.7176 1.7231 1.7286 1.7339 1.7392 1.7445	1185.6 1191.0 1196.3 1201.6 1217.2 1222.4 1227.5 1232.6 1237.7 1242.7 1242.7 1242.7 1242.7 1242.7 1242.7 1252.8 1257.8 1262.8 1267.7 1272.7 1277.6	6.10 6.20 6.39 6.48 6.53 6.76 6.76 6.86 6.95 7.04 7.13 7.22 7.31 7.39 7.48 7.57 7.66 7.75	[304.8] 1.6313 1.6350 1.6420 1.6428 1.6554 1.6620 1.6684 1.6747 1.6809 1.6870 1.6929 1.6988 1.7046 1.7103 1.7159 1.7214 1.7269 1.7214 1.7269 1.7323 1.7376 1.7376	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6 1247.6 1252.6 1257.6 1262.6 1267.6 1272.6 127.5
310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480	6.38 6.48 6.58 6.68 6.78 6.87 6.97 7.07 7.17 7.26 7.35 7.44 7.54 7.54 7.72 7.81 7.90 8.00	[302.0] 1.6348 1.6405 1.6473 1.6542 1.6608 1.6673 1.6737 1.6799 1.6861 1.6921 1.6981 1.7040 1.7097 1.7154 1.7215 1.7373 1.7246	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1222.7 1222.8 1232.9 1238.0 1248.0 1253.0 1253.0 1253.0 1268.0 1268.0 1268.0	6.29 6.38 6.48 6.58 6.68 6.77 6.96 7.06 7.15 7.24 7.33 7.43 7.43 7.52 7.61 7.70 7.79 7.88	[302.9] 1.6336 1.6356 1.6524 1.6524 1.6590 1.6655 1.6719 1.6781 1.6843 1.6904 1.6964 1.7023 1.7080 1.7193 1.7248 1.7356 1.7409	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8 1237.8 1242.9 1242.9 1252.9 1252.9 1252.9 1252.9 1257.9 1267.8 1267.8	6.19 6.29 6.39 6.48 6.58 6.57 6.86 6.96 7.05 7.14 7.23 7.41 7.50 7.54 7.50 7.568 7.77 7.86 7.95	[303.9] 1.6324 1.6368 1.6438 1.6506 1.6572 1.6638 1.6702 1.6764 1.6826 1.6887 1.6946 1.7005 1.7003 1.7120 1.7231 1.7286 1.7399 1.7392 1.7345 1.7445	1185.6 1191.0 1196.3 1201.6 1202.0 1217.2 1222.4 1227.5 1232.6 1237.7 1242.7 1247.7 1247.7 1252.8 1257.8 1252.8 1267.7 1262.7	6.10 6.20 6.30 6.39 6.48 6.58 6.67 6.76 6.86 6.95 7.04 7.13 7.22 7.31 7.39 7.48 7.57 7.66 7.75 7.83	[304.8] 1.6313 1.6320 1.6420 1.6428 1.6554 1.6620 1.6684 1.6747 1.6809 1.6870 1.6929 1.6988 1.7046 1.7159 1.7214 1.7224 1.7323 1.7376	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6 1257.6 1252.6 1257.6 1267.6 1267.6 1272.6
310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 550 600	6.38 6.48 6.58 6.68 6.78 6.87 6.97 7.07 7.17 7.26 7.35 7.44 7.54 7.54 7.54 7.72 7.81 7.90 8.00 8.09 8.18 8.63 9.08	[302.0] 1.6348 1.6405 1.6473 1.6542 1.6608 1.6737 1.6799 1.6861 1.6921 1.6921 1.6981 1.7040 1.7097 1.7154 1.7210 1.7265 1.7373 1.7426 1.7428 1.7478 1.7530 1.7780 1.8017	1186.1 11914 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1222.7 1222.8 1232.9 1238.0 1243.0 1243.0 1243.0 1243.0 1253.0 1253.0 1258.0 1268.0 1268.0 1272.9 1277.9 1282.8 1307.4 1332.0	6.29 6.38 6.48 6.58 6.68 7.06 7.06 7.15 7.24 7.33 7.43 7.52 7.61 7.70 7.61 7.70 7.88 7.97 8.06 8.51 8.95	[302.9] 1.6336 1.6356 1.6524 1.6524 1.6550 1.6655 1.6719 1.6781 1.6843 1.6904 1.7023 1.7080 1.7137 1.7248 1.7302 1.7409 1.7409 1.7461 1.7513 1.7763 1.8001	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8 1237.8 1242.9 1247.9 1247.9 1252.9 1257.9 1267.8 1272.8 1277.8 1282.7 1307.3	6.19 6.29 6.39 6.48 6.58 6.67 6.77 6.86 6.96 7.05 7.14 7.23 7.41 7.50 7.59 7.59 7.58 7.77 7.86 7.95 8.39 8.82	[303.9] 1.6324 1.6324 1.6356 1.6556 1.6572 1.6638 1.6702 1.6764 1.6826 1.7055 1.7063 1.7176 1.7231 1.7236 1.73392 1.7345 1.7445 1.7447 1.7747 1.7245	1185.6 1191.0 1196.3 1201.6 1207.2 1217.2 1222.4 1227.5 1232.6 1237.7 1242.7 1242.7 1242.7 1242.7 1252.8 1267.7 1277.6 1282.6 1307.3 1331.8	6.10 6.20 6.39 6.48 6.58 6.67 6.76 6.86 6.95 7.04 7.13 7.22 7.31 7.39 7.48 7.56 7.75 7.83 8.27 8.70	[304.8] 1.6313 1.6350 1.6420 1.6488 1.6554 1.6620 1.6684 1.6747 1.6809 1.6929 1.6988 1.7046 1.7103 1.7159 1.7214 1.7259 1.7376 1.7429 1.7480 1.7731 1.7299	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6 1252.6 1257.6 1257.6 1257.6 1277.5 1282.5 1307.2 1331.8
310 320 340 350 350 370 380 390 400 410 420 430 440 450 460 470 460 470 460 470 450 550 550 600 650	6.38 6.48 6.58 6.68 6.78 6.87 6.97 7.07 7.17 7.26 7.35 7.44 7.54 7.54 7.54 7.72 7.81 7.90 8.00 8.09 8.18 8.63 9.08 9.52	[302.0] 1.6348 1.6475 1.6475 1.6473 1.6542 1.6673 1.6737 1.6799 1.6861 1.7040 1.7097 1.7154 1.7210 1.7265 1.7319 1.7426 1.7478 1.7478 1.7478 1.7530 1.8244	1186.1 1191.4 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1222.7 1222.8 1232.9 1238.0 1243.0 1243.0 1243.0 1243.0 1253.0 1253.0 1258.0 1258.0 1258.0 1258.0 1272.9 1277.9 1282.8 1307.4 1332.0	6.29 6.38 6.48 6.58 6.68 6.67 6.96 7.06 7.15 7.24 7.33 7.43 7.52 7.61 7.70 7.79 7.88 7.97 8.06 8.51 8.95 9.39	[302.9] 1.6336 1.6456 1.6556 1.65590 1.6655 1.6719 1.6843 1.6904 1.6964 1.7033 1.7080 1.7137 1.7193 1.7248 1.7356 1.7461 1.7513 1.7513 1.7503 1.8201	1185.8 1191.2 1196.5 1201.8 1222.2 1217.4 1222.6 1227.7 1232.8 1237.8 1247.9 1247.9 1247.9 1252.9 1262.9 1262.9 1267.8 1272.8 1272.8 1272.8 1272.8 1272.8 1273.8 12	$\begin{array}{c} 6.19\\ 6.29\\ 6.39\\ 6.48\\ 6.58\\ 6.67\\ 6.76\\ 6.76\\ 6.96\\ 7.05\\ 7.14\\ 7.23\\ 7.32\\ 7.41\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.59\\ 7.95\\ 8.82\\ 9.25\\ 9.25\\ \end{array}$	[303.9] 1.6324 1.6324 1.6326 1.6526 1.6572 1.6638 1.6702 1.6702 1.6764 1.6826 1.7055 1.7063 1.7120 1.7126 1.7231 1.7286 1.7339 1.7245 1.7445 1.7497 1.7982 1.8212	1185.6 1191.0 1196.3 1201.6 1206.8 1212.0 1217.2 1222.4 1227.5 1232.6 1237.7 1242.7 1242.7 1242.7 1242.7 1252.8 1262.8 1267.8 1262.8 1267.7 1272.7 1272.7 1282.6 1307.3 1331.8 1356.4	6.10 6.20 6.39 6.48 6.57 6.76 6.86 6.95 7.04 7.13 7.22 7.31 7.39 7.48 7.57 7.66 7.75 7.83 8.27 9.12	[304.8] 1.6313 1.6350 1.6420 1.6428 1.6554 1.6620 1.6684 1.6747 1.6809 1.6929 1.6988 1.7046 1.7103 1.7159 1.7214 1.7269 1.7274 1.7274 1.7279 1.7429 1.7480 1.7480 1.7969 1.796	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6 1247.6 1247.6 1252.6 1257.6 1267.6 1267.6 1277.5 1282.5 1307.2 1331.8 1356.4
310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 550 600	6.38 6.48 6.58 6.68 6.78 6.87 6.97 7.07 7.17 7.26 7.35 7.44 7.54 7.54 7.54 7.72 7.81 7.90 8.00 8.09 8.18 8.63 9.08	[302.0] 1.6348 1.6405 1.6473 1.6542 1.6608 1.6737 1.6799 1.6861 1.6921 1.6921 1.6981 1.7040 1.7097 1.7154 1.7210 1.7265 1.7373 1.7426 1.7428 1.7478 1.7530 1.7780 1.8017	1186.1 11914 1196.7 1202.0 1207.2 1212.4 1217.6 1222.7 1222.7 1222.8 1232.9 1238.0 1243.0 1243.0 1243.0 1243.0 1253.0 1253.0 1258.0 1268.0 1268.0 1268.0 1272.9 1277.9 1282.8 1307.4 1332.0	6.29 6.38 6.48 6.58 6.68 7.06 7.06 7.15 7.24 7.33 7.43 7.52 7.61 7.70 7.61 7.70 7.88 7.97 8.06 8.51 8.95	[302.9] 1.6336 1.6456 1.6524 1.6524 1.6590 1.6655 1.6719 1.6781 1.6843 1.6904 1.7023 1.7080 1.7137 1.7248 1.7302 1.7409 1.7409 1.7461 1.7513 1.7763 1.8001	1185.8 1191.2 1196.5 1201.8 1207.0 1212.2 1217.4 1222.6 1227.7 1232.8 1237.8 1242.9 1247.9 1247.9 1252.9 1257.9 1267.8 1272.8 1277.8 1282.7 1307.3	6.19 6.29 6.39 6.48 6.58 6.67 6.77 6.86 6.96 7.05 7.14 7.23 7.41 7.50 7.59 7.59 7.58 7.77 7.86 7.95 8.39 8.82	[303.9] 1.6324 1.6324 1.6356 1.6556 1.6572 1.6638 1.6702 1.6764 1.6826 1.7055 1.7063 1.7176 1.7231 1.7236 1.73392 1.7345 1.7445 1.7447 1.7747 1.7245	1185.6 1191.0 1196.3 1201.6 1207.2 1217.2 1222.4 1227.5 1232.6 1237.7 1242.7 1242.7 1242.7 1242.7 1252.8 1267.7 1277.6 1282.6 1307.3 1331.8	6.10 6.20 6.39 6.48 6.58 6.67 6.76 6.86 6.95 7.04 7.13 7.22 7.31 7.39 7.48 7.56 7.75 7.83 8.27 8.70	[304.8] 1.6313 1.6350 1.6420 1.6488 1.6554 1.6620 1.6684 1.6747 1.6809 1.6929 1.6988 1.7046 1.7103 1.7159 1.7214 1.7259 1.7376 1.7429 1.7480 1.7731 1.7299	1185.3 1190.7 1196.1 1201.4 1206.6 1211.8 1217.0 1222.2 1227.3 1232.4 1237.5 1242.6 1252.6 1257.6 1257.6 1257.6 1277.5 1282.5 1307.2 1331.8

Pres- sure		73 [305.8]			74 [306.7]			75 [307.6]			76 [308.5]	
Temp ° F.	V	s	i	v	s	i	v	s	i	v	s	i
Sat.	5.97	1.6302	1182.8	5.90	1.6291	1183.0	5.82	1.6280	1183.3	5.75	1.6269	1183.5
310	6.02 6.11	1.6332	1185.1 1190.5	5.93	1.6314	1184.8	5.85	1.6297	1184.6	5.77	1.6280	1184.3
320 330	6.21	1.6470	1190.5	6.12	1.6453	1195.6	5.94 6.03	1.6436		5.86 5.95	1.6350	1189.8 1195.2
340	6.30	1.6537	1201.1	6.21	1.6520	1200.9	6.13	1.6503	1200.7	6.04	1.6486	1200.5
350	6.39	1.6603	1206.4	6.30	1.6586 1.6650	1206.2	6.22	1.6569	1206.0	6.13	1.6552	1205.8
360 370	6.48 6.58	1.6667	1211.6	6.39 6.48	1.6713	1211.4 1216.6	6.31 6.40	1.6633	1211.3 1216.5	6.22 6.31	1.6617	1211.1 1216.3
380	6.67	1.6792	1222.0	6.57	1.6775	1221.8	6.48	1.6759	1221.7	6.40	1.6742	1221.5
390	6.76	1.6853	1227.2	6.66	1.6836	1227.0	6.57	1.6820	1226.8	6.48	1.6804	1226.6
400 410	6.85 6.94	1.6913 1.6971	1232.3 1237.4	6.75 6.84	1.6896 1.6955	1232.I 1237.2	6.66 6.75	1.6880	1232.0 1237.1	6.57 6.66	1.6864	1231.8 1236.9
420	7.03	I.7029	1237.4	6.93	1.7013	1237.2	6.84	1.6997	1237.1	6.74	1.6981	1230.9
430	7.12	1.7086	1247.5	7.02	1.7070	1247.3	6.92	1.7054	1247.2	6.83	1.7038	1247.1
440	7.20	1.7142	1252.5	7.10	1.7126	1252.4	7.01	1.7110	1252.2	6.91	1.7094	1252.1
450 460	7.29 7.38	1.7198	1257.5 1262.5	7.19 7.28	1.7182 1.7237	1257.4 1262.4	7.09 7.18	1.7166	1257.3 1262.3	7.00 7.08	1.7150	1257.I 1262.I
470	7.47	1.7307	2167.5	7.36	1.7291	1267.4	7.26	1.7275	1267.3	7.17	1.7259	1267.1
480	7.55	1.7360	1272.5	7.45	1.7344	1272.4	7.35	1.7328	1272.3	7.25	1.7312	1272.1
490	7.64	1.7412	1277.4	7.53	1.7396	1277.3	7.43	1.7381	1277.2	7.33	1.7365	1277.1
500	7.73 8.15	1.7464	1282.4 1307.1	7.62 8.04	1.7448 1.7699	1282.3 1307.0	7.52 7.93	I.7433 I.7684	1282.2 1306.9	7.42 7.83	1.7417	1282.1 1306.8
600	8.58	1.7953	1331.7	8.46	1.7937	1331.6	8.35	1.7922	1331.6	8.24	1.7907	1300.0
650	9.00	1.8180	1356.3	8.88	1.8165	1356.3	8.76	1.8150	1356.2	8.64	1.8135	1356.1
700	9.42	1.8398	1381.0	9.29	1.8383	1381.0	9.16	1.8368	1380.9	9.04	1.8353	1380.9
750	9.83	1.8607	1405.8	9.70	1.8592	1405.8	9.57	1.8577	1405.7	9.44	1.8562	1405.7
		77 [309.4]			78 [310.3]			79 [311.2]		-	80 [312.0]	
Sat.	5.68	1.6259	1183.8	5.61	1.6248	1184.0	5.55	1.6238	1184.2	5.48	1.6227	1184.4
320	5.78	1.6333	1189.5	5.70	1.6317	1189.3	5.63	1.6300	1189.0	5.55	1.6284	1188.8
330 340	5.87 5.96	1.6402 1.6470	1194.9 1200.3	$5.79 \\ 5.88$	1.6386	1194.7 1200.1	5.71 5.80	1.6369 1.6437	1194.5	5.64	1.6353	1194.2 1199.6
350									1199.9	5.73		
360	6.05 6.14	1.6536 1.6601	1205.6	5.97 6.05	1.6519 1.6584	1205.4 1210.7	5.89 5.97	1.6503 1.6568	1205.2 1210.5	5.81 5.90	1.6487 1.6553	1205.0 1210.3
370	6.22	1.6664	1216.1	6.14	1.6648	1215.9	6.06	1.6632	1215.7	5.98	1.6616	1215.5
380	6.31 6.40	1.6726 1.6788	1221.3 1226.5	6.23	1.6710 1.6772	1221.I 1226.3	6.15	1.6695	1221.0 1226.2	6.07	1.6679	1220.8 1226.0
390				6.31		Ŭ	6.23	1.6756		6.15		
400 410	6.48 6.57	1.6848 1.6907	1231.6 1236.7	6.40 6.48	1.6832 1.6891	1231.5 1236.6	6.31 6.40	1.6816 1.6876	1231.3 1236.4	6.23 6.32	1.6801 1.6861	1231.I 1236.3
420	6.65	1.6965	1241.8	6.57	1.6950	1241.7	6.48	1.6934	1241.5	6.40	1.6919	1241.4
430 440	6.74 6.82	1.7022 1.7079	1246.9	6.65 6.73	1.7007 1.7064		6.56 6.65	1.6992 1.7048	1246.6 1251.7	6.48 6.56	1.6977 1.7033	1246.5 1251.6
450	6.91	1.7135	1257.0	6.82	1.7119	1256.9	6.73	1.7104	1256.8	6.64	1.7089	1256.6
460	6.99	1.7190	1262.0	6.90	1.7174	1261.9	6.81	1.7159	1261.8	6.72	1.7144	1261.7
470	7.07	1.7244	1267.0	6.98	1.7229	1266.9	6.89	1.7214	1266.8	6.80	1.7199	1266.7
480 490	7.16 7.24	1.7297 1.7350	1272.0 1277.0	7.06 7.14	1.7282 1.7335	1271.9 1276.9	6.97 7.05	1.7267 1.7320	1271.8 1276.8	6.88 6.96	1.7252 1.7305	1271.7 1276.7
500	7.32	1.7402	1282.0	7.22	1.7387	1281.9	7.13	1.7372	1281.8	7.04	1.7357	1281.7
550	7.73	1.7653	1306.8	7.63	1.7638	1306.7	7.53	1.7624	1306.6	7.43	1.7609	1306.5
- 1							7.92 8.21					
700	8.92	1.8338	1350.1	8.81	1.8323	1350.0	8.70	1.8309	1350.0	8.59	1.8294	1355.9
750	9.32	1.8547	1405.6	9.20	1.8533	1405.6	9.08	1.8519	1405.6	8.97	1.8504	1405.5
800	9.71	1.8749	1430.6	9.59	1.8735	1430.6	9.47	1.8721	1430.6	9.35	1.8707	1430.5
500 550 600 650 700 750	7.32 7.73 8.13 8.53 8.92 9.32	1.7402 1.7653 1.7892 1.8120 1.8338 1.8547	1282.0 1306.8 1331.4 1356.1 1380.8 1405.6	7.22 7.63 8.02 8.42 8.81 9.20	1.7387 1.7638 1.7877 1.8105 1.8323 1.8533	1281.9 1306.7 1331.4 1356.0 1380.8 1405.6	7.13 7.53 7.92 8.31 8.70 9.08	1.7372 1.7624 1.7863 1.8091 1.8309 1.8519	1281.8 1306.6 1331.3 1356.0 1380.7 1405.6	7.04 7.43 7.82 8.21 8.59 8.97	1.7357 1.7609 1.7848 1.8076 1.8294 1.8504	1281.7 1306.5 1331.2 1355.9 1380.7 1405.5

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Pres- sure		81 [312.9]		2	82 [313.7]			83 [314.6]			84 [315.4]	
Temp °F.	v	s	i	v	s	i	v	s	i	V	s	i
Sat.	5.42	1.6217	1184.7	5.35	1.6207	1184.9	5.29	1.6197	1185.1	5.23	1.6187	1185.3
320	5.48	1.6268	1188.6	5.41	1.6252	1188.3	5.34	1.6236	1188.1	5.27	1.6220	1187.8
330	5.57 5.65	1.6337	1194.0 1199.4	5-49 5.58	1.6321 1.6389	1193.8	5.42	1.6305	1193.6	5.36	1.6290 1.6358	1193.3 1198.8
340	5.05	1.0405	1199.4	3.50		1199.2	5.51	1.0374	1199.0	5.44	1.0350	1190.0
350	5.74	1.6472	1204.8	5.66	1.6456	1204.6	5.59	1.6441	1204.4	5.52	1.6425	1204.2
360 370	5.82 5.91	1.6537 1.6601	1210.1	5.75 5.83	1.6521	1209.9	5.68 5.76	1.6506	1209.7 1215.0	5.60 5.69	1.6491	1209.5 1214.8
380	5.99	1.6664	1220.6	5.91	1.6648	1213.2	5.84	1.6633	1213.0	5.77	1.6618	1214.0
390	6.07	1.6725	1225.8	5.99	1.6710	1225.6	5.92	1.6695	1225.5	5.85	1.6680	1225.3
400	6.15	1.6786	1231.0	6.07	1.6771	1230.8	6.00	1.6756	1230.7	5.93	1.6741	1230.5
410	6.23	1.6845	1236.1	6.16	1.6830	1236.0	6.08	1.6815	1235.8	6.01	1.6801	1235.7
420	6.32	1.6904	1241.3	6.24	1.6889	1241.1	6.16	1.6874	1241.0	6.08	1.6860	1240.8
430 440	6.40 6.48	1.6962	1246.4	6.32 6.40	1.6947	1246.2	6.24 6.32	1.6932	1246.1	6.16 6.24	1.6918	1245.9
		1.7010	1231.4		1.7003	1231.3	0.52	1.0909	1231.2	0.24	1.0974	1251.0
450 460	6.56 6.64	1.7074	1256.5	6.48	1.7059	1256.4 1261.4	6.40	1.7045	1256.2	6.32	1.7031	1256.1 1261.2
400	6.72	I.7129 I.7184	1201.5	6.55 6.63	1.7114	1201.4	6.47 6.55	1.7100 1.7155	1261.3	6.39 6.47	1.7086	1201.2
480	6.80	1.7237	1271.6	6.71	1.7223	1271.5	6.63	1.7209	1271.4	6.55	1.7194	1271.2
490	6.87	1.7290	1276.6	6.79	1.7276	1276.5	6.70	1.7262	1276.4	6.62	1.7247	1276.3
500	6.95	1.7343	1281.6	6.87	1.7328	1281.5	6.78	1.7314	1281.4	6.70	1.7300	1281.3
550	7.34	1.7595	1306.4	7.25	1.7581	1306.4	7.16	1.7567	1306.3	7.08	1.7553	1306.2
600 650	7.72 8.10	1.7834 1.8062	1331.2 1355.9	7.63 8.01	1.7820 1.8048	1331.1 1355.8	7.54	1.7806 1.8034	1331.0	7.45 7.81	1.7792 1.8020	1330.9
700	8.48	1.8280	1355.9	8.38	1.8266	1355.0	7.91 8.28	1.8253	1355.8 1380.5	8.18	1.8239	1355.7 1380.5
750	8.86	1.8490	1405.5	8.75	1.8476	1405.5	8.64	1.8463	1405.4	8.54	1.8449	1405.4
800	9.23	1.8693	1430.5	9.12	1.8679	1430.5	9.01	1.8666	1430.4	8.90	1.8652	1430.4
						10 0	5		-430.4			
		85 [316.3]			86	10 0		87			88	
Sat.	5.18		1185.5	5.12		1185.7	5.06		1185.9	5.01	1	1186.1
	Ĩ.	[316.3] 1.6178	1185.5	5.12	86 [317.1] 1.6168	1185.7	5.06	87 [317.9] 1.6159	1185.9	5.01	88 [318.7] 1.6149	1186.1
320	5.21	[316.3] 1.6178 1.6204	1185.5 1187.6	5.12	86 [317.1] 1.6168 1.6189	1185.7 1187.4	5.06	87 [317.9] 1.6159 1.6174	1185.9 1187.1	5.01 5.02	88 [318.7] 1.6149 1.6159	1186.1 1186.9
	Ĩ.	[316.3] 1.6178	1185.5	5.12	86 [317.1] 1.6168	1185.7	5.06	87 [317.9] 1.6159	1185.9	5.01	88 [318.7] 1.6149	1186.1
320 330	5.21 5.29	[316.3] 1.6178 1.6204 1.6274	1185.5 1187.6 1193.1	5.12 5.14 5.23 5.31	86 [317.1] 1.6168 1.6189 1.6259 1.6328	1185.7 1187.4 1192.9	5.06 5.08 5.16	87 [317.9] 1.6159 1.6174 1.6244	1185.9 1187.1 1192.6	5.01 5.02 5.10	88 [318.7] 1.6149 1.6159 1.6229	1186.1 1186.9 1192.4
320 330 340 350 360	5.21 5.29 5.37 5.46 5.54	[316.3] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476	1185.5 1187.6 1193.1 1198.5 1203.9 1209.3	5.12 5.14 5.23 5.31 5.39 5.47	86 [317.1] 1.6168 1.6189 1.6259 1.6328 1.6395 1.6461	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1	5.06 5.08 5.16 5.24 5.32 5.40	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6380 1.6446	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9	5.01 5.02 5.10 5.18 5.26 5.34	88 [318.7] 1.6149 1.6159 1.6229 1.6298 1.6366 1.6432	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7
320 330 340 350 360 370	5.21 5.29 5.37 5.46 5.54 5.62	[316.3] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540	1185.5 1187.6 1193.1 1198.5 1203.9 1209.3 1214.6	5.12 5.14 5.23 5.31 5.39 5.47 5.55	86 [317.1] 1.6168 1.6189 1.6259 1.6328 1.6395 1.6461 1.6525	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4	5.06 5.08 5.16 5.24 5.32 5.40 5.48	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6380 1.6446 1.6510	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2	5.01 5.02 5.10 5.18 5.26 5.34 5.42	88 [318.7] 1.6149 1.6159 1.6229 1.6298 1.6366 1.6432 1.6496	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0
320 330 340 350 360 370 380	5.21 5.29 5.37 5.46 5.54 5.62 5.70	[316.3] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6540 1.6603	1185.5 1187.6 1193.1 1198.5 1203.9 1209.3 1214.6 1219.9	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63	86 [317.1] 1.6168 1.6259 1.6259 1.6328 1.6395 1.6461 1.6525 1.6589	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7	5.06 5.08 5.16 5.24 5.32 5.40 5.48 5.48 5.56	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6380 1.6446 1.6510 1.6574	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2 1219.5	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50	88 [318.7] 1.6149 1.6159 1.6229 1.6298 1.6298 1.6366 1.6432 1.6496 1.6560	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3
320 330 340 350 360 370 380 390	5.21 5.29 5.37 5.46 5.54 5.62 5.70 5.78	[316.3] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6663 1.6665	1185.5 1187.6 1193.1 1198.5 1203.9 1209.3 1214.6 1219.9 1225.1	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71	86 [317.1] 1.6168 1.6189 1.6259 1.6328 1.6325 1.6461 1.6525 1.6589 1.6651	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0	5.06 5.08 5.16 5.24 5.32 5.40 5.48 5.56 5.64	87 [317.9] 1.6159 1.6174 1.6313 1.6380 1.6446 1.6510 1.6574 1.6637	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2 1219.5 1224.8	5.01 5.02 5.10 5.18 5.26 5.34 5.34 5.50 5.57	88 [318.7] 1.6149 1.6229 1.6298 1.6366 1.6432 1.6496 1.6560 1.6622	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6
320 330 340 350 360 370 380 390 400	5.21 5.29 5.37 5.46 5.54 5.62 5.70 5.78 5.85	[316.3] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6603 1.6605 1.6726	1185.5 1187.6 1193.1 1198.5 1203.9 1209.3 1214.6 1219.9 1225.1 1230.3	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78	86 [317.1] 1.6168 1.6189 1.6259 1.6328 1.6325 1.6461 1.6525 1.6589 1.6651 1.6712	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1230.2	5.06 5.08 5.16 5.24 5.32 5.40 5.48 5.56 5.64 5.72	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6380 1.6446 1.6510 1.6574 1.6637 1.6698	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2 1219.5 1224.8 1230.0	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50 5.57 5.65	88 [318.7] 1.6149 1.6229 1.6298 1.6366 1.6432 1.6496 1.6560 1.6622 1.6684	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8
320 330 340 350 360 370 380 390 400 410	5.21 5.29 5.37 5.46 5.54 5.54 5.62 5.70 5.78 5.85 5.93	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6603 1.6665 1.6726 1.6786	1185.5 1187.6 1193.1 1198.5 1203.9 1214.6 1219.9 1225.1 1230.3 1235.5	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86	86 [317.1] 1.6168 1.6259 1.6328 1.6395 1.6461 1.6525 1.6589 1.6651 1.6712 1.6772	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1230.2 1235.4	5.06 5.08 5.16 5.24 5.32 5.40 5.48 5.56 5.64 5.72 5.79	87 [317.9] 1.6159 1.6244 1.6313 1.6466 1.6510 1.6574 1.6637 1.6698 1.6758	1185.9 1187.1 1192.6 1198.1 1203.5 1228.9 1214.2 1219.5 1224.8 1230.0 1235.2	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50 5.57 5.65 5.72	88 [318.7] 1.6149 1.6229 1.6229 1.6298 1.6432 1.6496 1.64560 1.6652 1.6684 1.6744	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0
320 330 340 350 360 370 380 390 400 410 420	5.21 5.29 5.37 5.46 5.54 5.62 5.70 5.78 5.85	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6605 1.6665 1.6726 1.6786 1.6845	1185.5 1187.6 1193.1 1198.5 1203.9 1209.3 1214.6 1219.9 1225.1 1230.3	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78	86 [317.1] 1.6168 1.6189 1.6259 1.6328 1.6325 1.6461 1.6525 1.6589 1.6651 1.6712	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1230.2 1235.4 1240.5	5.06 5.08 5.16 5.24 5.42 5.42 5.48 5.48 5.48 5.48 5.64 5.64 5.72 5.79 5.87	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6380 1.6446 1.6510 1.6574 1.6637 1.6698	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2 1219.5 1224.8 1230.0	5.01 5.02 5.10 5.18 5.26 5.34 5.50 5.57 5.65 5.72 5.80	88 [318.7] 1.6149 1.6229 1.6298 1.6366 1.6432 1.6496 1.6560 1.6622 1.6684	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8
320 330 340 350 360 370 380 390 400 410	5.21 5.29 5.37 5.46 5.54 5.54 5.70 5.78 5.85 5.93 6.01	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6603 1.6665 1.6726 1.6786	1185.5 1187.6 1193.1 1198.5 1203.9 1209.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94	86 [317.1] 1.6168 1.6259 1.6328 1.6395 1.63451 1.6525 1.6589 1.6651 1.6712 1.6772 1.6831	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1230.2 1235.4	5.06 5.08 5.16 5.24 5.32 5.40 5.48 5.56 5.64 5.72 5.79	87 [317.9] 1.6159 1.6174 1.6313 1.6343 1.6346 1.6466 1.6510 1.6574 1.6637 1.6638 1.6758 1.6758 1.6817	1185.9 1187.1 1192.6 1198.1 1203.5 1228.9 1214.2 1219.5 1224.8 1230.0 1235.2 1240.4	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50 5.57 5.65 5.72	88 [318.7] 1.6149 1.6229 1.6229 1.6298 1.6366 1.6432 1.6496 1.6560 1.6560 1.6622 1.6684 1.6744 1.6803	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1240.2 1245.4
320 330 340 350 360 370 380 390 400 410 420 430	5.21 5.29 5.37 5.46 5.54 5.52 5.78 5.85 5.93 6.01 6.09	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6605 1.6786 1.6786 1.6786 1.6786 1.6786 1.6933	1185.5 1187.6 1193.1 1198.5 1203.9 1229.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7 1245.8	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94 6.01	86 [317.1] 1.6168 1.6259 1.6328 1.6325 1.6461 1.6525 1.6589 1.6651 1.6712 1.6712 1.6839	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1230.2 1235.4 1240.5 1240.5 1245.6	5.06 5.08 5.16 5.24 5.32 5.40 5.48 5.56 5.64 5.72 5.79 5.87 5.94	87 [317.9] 1.6159 1.6174 1.6313 1.6380 1.6446 1.6510 1.6574 1.6637 1.6698 1.6758 1.6817 1.6875	1185.9 1187.1 1192.6 1198.1 1203.5 1214.2 1219.5 1224.8 1230.0 1235.2 1240.4 1245.5	5.01 5.02 5.10 5.18 5.26 5.34 5.50 5.57 5.65 5.57 5.65 5.72 5.80 5.87	88 [318.7] 1.6149 1.6229 1.6298 1.6366 1.6432 1.6496 1.6550 1.6550 1.6522 1.6684 1.6744 1.6803 1.6861	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1245.4 1250.5
320 330 340 350 360 370 380 390 400 410 420 430 440 450 460	5.21 5.29 5.37 5.46 5.54 5.54 5.70 5.78 5.78 5.93 6.01 6.09 6.16 6.24 6.32	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6653 1.6653 1.6726 1.6786 1.6933 1.6960 1.7016 1.7072	1185.5 1187.6 1193.1 1198.5 1203.9 1209.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7 1245.8 1250.9 1256.0 1256.0	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94 6.01 6.09 6.17 6.24	86 [317.1] 1.6168 1.6259 1.6328 1.6328 1.6395 1.6461 1.6525 1.6589 1.6551 1.6712 1.6772 1.6831 1.6889 1.6946 1.7002 1.7058	1185.7 1187.4 1192.9 1198.3 1209.1 1219.7 1225.0 1235.4 1245.6 1225.7 1225.8 1255.8 1260.9	5.06 5.08 5.16 5.24 5.40 5.48 5.56 5.64 5.72 5.79 5.87 5.94 6.02 6.09 6.17	87 [317.9] 1.6159 1.6174 1.6313 1.6346 1.6446 1.6510 1.6544 1.65510 1.6574 1.6637 1.6698 1.6758 1.6875 1.6875 1.6932 1.6988 1.7044	1185.9 1187.1 1192.6 1198.1 1203.5 1228.9 1214.2 1219.5 1224.8 1230.0 1235.2 1240.4 1245.5 1250.6 1255.7 1260.8	5.01 5.02 5.10 5.18 5.26 5.34 5.50 5.57 5.65 5.72 5.80 5.87 5.95 6.02 6.10	88 [318.7] 1.6149 1.6229 1.6229 1.6298 1.6366 1.6432 1.6496 1.6560 1.6560 1.6622 1.6684 1.6744 1.6803 1.6861 1.6918 1.6975 1.7030	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1245.4 1250.5 1255.6 1260.7
320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470	5.21 5.29 5.37 5.46 5.54 5.54 5.70 5.78 5.78 5.93 6.01 6.09 6.16 6.24 6.32 6.39	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6605 1.6726 1.6786 1.6786 1.6903 1.6960 1.7016 1.7072 1.7126	1185.5 1187.6 1193.1 1198.5 1209.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7 1245.8 1250.9 1256.0 1261.0	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94 6.01 6.09 6.17 6.24 6.32	86 [317.1] 1.6168 1.6259 1.6328 1.6325 1.6461 1.6525 1.6589 1.6651 1.6712 1.6772 1.6831 1.6946 1.7028 1.7058 1.7112	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1230.2 1235.4 1245.6 1245.6 1245.6 1250.7 1255.8 1260.9 1266.0	5.06 5.08 5.16 5.24 5.40 5.48 5.56 5.64 5.72 5.79 5.87 6.02 6.09 6.17 6.24	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6380 1.6446 1.6510 1.6574 1.6637 1.6698 1.6758 1.6875 1.6875 1.6875 1.6875 1.6875 1.6872 1.6932	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2 1219.5 1224.8 1230.0 1235.2 1240.4 1245.5 1250.6 1255.7 1260.8	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50 5.57 5.65 5.72 5.65 5.87 5.95 6.02 6.10 6.17	88 [318.7] 1.6149 1.6229 1.6298 1.6366 1.6432 1.6496 1.6432 1.6496 1.6560 1.6622 1.6684 1.6744 1.6803 1.6881 1.6918 1.6975 1.7030 1.7035	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1245.4 1250.5 1255.6 1260.7 1265.7
320 330 340 350 360 370 380 390 400 410 420 430 440 450 460	5.21 5.29 5.37 5.46 5.54 5.54 5.70 5.78 5.78 5.93 6.01 6.09 6.16 6.24 6.32	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6653 1.6653 1.6726 1.6786 1.6933 1.6960 1.7016 1.7072	1185.5 1187.6 1193.1 1198.5 1203.9 1209.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7 1245.8 1250.9 1256.0 1256.0	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94 6.01 6.09 6.17 6.24	86 [317.1] 1.6168 1.6259 1.6328 1.6328 1.6395 1.6461 1.6525 1.6589 1.6551 1.6712 1.6772 1.6831 1.6889 1.6946 1.7002 1.7058	1185.7 1187.4 1192.9 1198.3 1209.1 1219.7 1225.0 1235.4 1245.6 1225.7 1225.8 1255.8 1260.9	5.06 5.08 5.16 5.24 5.40 5.48 5.56 5.64 5.72 5.79 5.87 5.94 6.02 6.09 6.17	87 [317.9] 1.6159 1.6174 1.6313 1.6346 1.6446 1.6510 1.6544 1.65510 1.6574 1.6637 1.6698 1.6758 1.6875 1.6932 1.6988 1.7044	1185.9 1187.1 1192.6 1198.1 1203.5 1228.9 1214.2 1219.5 1224.8 1230.0 1235.2 1240.4 1245.5 1250.6 1255.7 1260.8	5.01 5.02 5.10 5.18 5.26 5.34 5.50 5.57 5.65 5.72 5.80 5.87 5.95 6.02 6.10	88 [318.7] 1.6149 1.6229 1.6229 1.6298 1.6366 1.6432 1.6496 1.6560 1.6560 1.6622 1.6684 1.6744 1.6803 1.6861 1.6918 1.6975 1.7030	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1245.4 1250.5 1255.6 1260.7 1265.7 1270.8
320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480	5.21 5.29 5.37 5.46 5.54 5.54 5.78 5.78 5.85 5.93 6.09 6.16 6.24 6.32 6.39 6.47	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6653 1.6653 1.6726 1.6726 1.6786 1.6903 1.6960 1.7016 1.7072 1.7126 1.7180 1.7233	1185.5 1187.6 1193.1 1198.5 1209.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7 1245.8 1250.9 1256.0 1266.1 1271.1 1276.1	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94 6.01 6.09 6.17 6.24 6.32 6.39 6.47	86 [317.1] 1.6168 1.6259 1.6328 1.6395 1.6461 1.6525 1.6589 1.6651 1.6712 1.6712 1.6831 1.6889 1.6946 1.7002 1.7058 1.7112 1.7166 1.7220	1185.7 1187.4 1192.9 1198.3 1209.1 1214.4 1219.7 1225.0 1230.2 1235.4 1240.5 1240.5 1245.6 1250.7 1255.8 1260.9 1266.0 1271.0 1276.0	5.06 5.08 5.16 5.24 5.40 5.48 5.56 5.64 5.72 5.79 5.87 5.94 6.02 6.09 6.17 6.24 6.32 6.39	87 [317.9] 1.6159 1.6174 1.6343 1.6343 1.6346 1.6510 1.6574 1.6637 1.6698 1.6758 1.6875 1.6932 1.6988 1.7044 1.7099 1.7153 1.7206	1185.9 1187.1 1192.6 1198.1 1203.5 1228.9 1214.2 1219.5 1224.8 1230.0 1235.2 1240.4 1245.5 1250.6 1255.7 1260.8 1255.9 1270.9 1275.9	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50 5.57 5.65 5.72 5.80 5.87 5.95 6.02 6.10 6.17 6.24 6.32	88 [318.7] 1.6149 1.6159 1.6229 1.6228 1.646 1.6432 1.6496 1.6456 1.6652 1.6684 1.6744 1.6803 1.6861 1.6918 1.6918 1.6975 1.7030 1.7085 1.7139 1.7192	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1245.4 1250.5 1245.4 1250.5 1255.6 1260.7 1265.7 1270.8 1275.8
320 330 340 350 370 380 390 400 410 420 430 440 450 460 470 480 490 550	5.21 5.29 5.37 5.46 5.54 5.54 5.70 5.78 5.85 5.93 6.01 6.09 6.16 6.24 6.32 6.39 6.47 6.54 6.62 6.99	[3163] 1.6178 1.6204 1.6274 1.6343 1.6476 1.6540 1.6540 1.6540 1.6655 1.6786 1.6786 1.6786 1.6786 1.6903 1.6900 1.7016 1.7012 1.7128	1185.5 1187.6 1193.1 1198.5 1209.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7 1245.8 1250.9 1256.0 1266.0 1266.1 1266.1	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94 6.09 6.17 6.29 6.32 6.39	86 [317.1] 1.6168 1.6259 1.6328 1.6325 1.6461 1.6525 1.6589 1.6651 1.6712 1.6772 1.6831 1.6889 1.6946 1.7002 1.7052 1.7152	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1230.2 1235.4 1240.5 1245.6 1250.7 1255.8 1260.9 1266.0 1271.0	5.06 5.08 5.16 5.24 5.40 5.48 5.56 5.64 5.72 5.79 5.87 5.92 6.09 9.17 6.24 6.32	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6466 1.6510 1.6574 1.6637 1.6638 1.6758 1.6875 1.6875 1.6932 1.6988 1.7044 1.7034	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2 1219.5 1224.8 1230.0 1235.2 1245.5 1245.5 1250.6 1255.7 1260.8 1255.7 1260.8 1255.9 1275.9 1275.9 1281.0 1305.9	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50 5.57 5.65 5.72 5.80 5.87 5.95 6.02 6.17 6.24	88 [318.7] 1.6149 1.6159 1.6229 1.6298 1.6432 1.6496 1.6432 1.6496 1.6560 1.6622 1.6684 1.6744 1.6803 1.6918 1.6918 1.6975 1.7030 1.7039 1.7139 1.7192	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1245.4 1250.5 1255.6 1260.7 1265.7 1270.8 1275.8 1280.9 1305.8
320 330 340 350 370 380 390 400 410 420 430 440 450 460 470 480 490 550 600	5.21 5.29 5.37 5.46 5.54 5.562 5.70 5.78 5.85 5.93 6.01 6.09 6.16 6.24 6.32 6.32 6.34 6.54 6.54 6.62 6.99 7.36	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6655 1.6726 1.6786 1.6786 1.6786 1.6786 1.6903 1.6960 1.7016 1.7128 1.7233 1.7286 1.7779	1185.5 1187.6 1193.1 1198.5 1209.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7 1245.8 1250.9 1256.0 1266.1 1271.1 1276.1 1281.2 1306.1 1330.9	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94 6.01 6.09 6.17 6.24 6.32 6.39 6.47 6.54 6.91 7.27	86 [317.1] 1.6168 1.6189 1.6259 1.6328 1.6461 1.6525 1.6589 1.6651 1.6712 1.6772 1.6831 1.6889 1.6946 1.7002 1.7058 1.7166 1.7220 1.7272 1.7525 1.7765	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1230.2 1235.4 1240.5 1245.6 1255.7 1255.8 1266.0 1271.0 1276.0 1271.0 1276.0 1281.1 1306.0 1330.8	5.06 5.08 5.16 5.24 5.40 5.48 5.56 5.64 5.72 5.79 5.87 5.94 6.09 6.17 6.24 6.32 6.39 6.46 6.83 7.19	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6380 1.6466 1.6570 1.6637 1.6698 1.6758 1.6817 1.6698 1.6932 1.6988 1.7044 1.7059 1.7153 1.7206 1.7258	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2 1219.5 1224.8 1230.0 1235.2 1240.4 1245.5 1255.7 1265.9 1275.9 1275.9 1281.0 1305.9 1330.7	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50 5.57 5.65 5.72 5.80 5.87 5.95 6.02 6.17 6.24 6.32 6.39 6.75 7.10	88 [318.7] 1.6149 1.6159 1.6229 1.6298 1.6432 1.6496 1.6432 1.6496 1.6560 1.6622 1.6684 1.6744 1.6803 1.6861 1.6918 1.6975 1.7030 1.7035 1.7739 1.7139 1.7245 1.7245 1.7739	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1245.4 1250.5 1255.6 1260.7 1265.7 1275.8 1280.9 1305.8 1330.7
320 330 340 350 350 370 380 390 400 410 420 430 440 450 460 470 480 450 550 550 600 650	5.21 5.29 5.37 5.46 5.54 5.54 5.70 5.78 5.85 5.93 6.01 6.09 6.16 6.24 6.32 6.39 6.47 6.54 6.54 6.54 6.54 7.36 7.72	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6653 1.6665 1.6786 1.6786 1.6786 1.6786 1.6786 1.6903 1.7016 1.7072 1.7126 1.7233 1.7286 1.7279 1.7779 1.7779	1185.5 1187.6 1193.1 1198.5 1209.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7 1245.8 1250.9 1256.0 1261.0 1266.1 1271.1 1271.1 1276.1 1281.2 1330.9 1335.6	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94 6.01 6.09 6.17 6.24 6.32 6.39 6.47 6.54 6.54 1.727 7.63	86 [317.1] 1.6168 1.6259 1.6325 1.6325 1.6461 1.6525 1.6589 1.6651 1.6712 1.6772 1.6831 1.6889 1.6946 1.7002 1.7058 1.7120 1.7272 1.7255 1.7765 1.7794	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1235.4 1240.5 1245.6 1250.7 1255.8 1260.9 1260.0 1271.0 1271.0 1276.0 1281.1 1306.0 1330.8 1355.6	5.06 5.08 5.16 5.24 5.32 5.40 5.48 5.56 5.64 5.72 5.79 5.87 5.94 6.02 6.09 6.17 6.24 6.39 6.46 6.83 7.19 7.54	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6380 1.6510 1.6574 1.6637 1.6698 1.6758 1.6817 1.6698 1.6758 1.6932 1.6988 1.7044 1.7059 1.7153 1.7258 1.7258 1.7752 1.7752 1.7752	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2 1219.5 1224.8 1230.0 1235.2 1240.4 1245.5 1250.6 1255.7 1260.8 1260.8 1260.9 1275.9 1275.9 1281.0 1305.9 1330.7 1335.5	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50 5.57 5.65 5.72 5.80 5.87 5.95 6.02 6.10 6.17 6.32 6.39 6.32 6.39 5.745	88 [318.7] 1.6149 1.6159 1.6229 1.6228 1.6432 1.6436 1.6432 1.6436 1.6560 1.6622 1.6684 1.6744 1.6803 1.6918 1.6918 1.6975 1.7030 1.7085 1.7199 1.7199 1.7245 1.7499 1.7968	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1245.4 1250.5 1255.6 1260.7 1265.7 1270.8 1275.8 1275.8 1280.9 1305.8 1330.7 1355.5
320 330 340 350 370 380 390 400 410 420 430 440 450 450 450 450 550 600 650 700	5.21 5.29 5.37 5.46 5.54 5.54 5.70 5.78 5.78 5.93 6.09 6.16 6.24 6.39 6.47 6.54 6.62 6.99 7.36 2.85 6.93 6.47 7.72 8.08	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6540 1.6540 1.6540 1.6540 1.6545 1.6786 1.6786 1.6786 1.6786 1.6786 1.6786 1.6903 1.7016 1.7126 1.7128 1.7233 1.7286 1.7539 1.7279 1.8207 1.8226	1185.5 1187.6 1193.1 1198.5 1209.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7 1245.8 1250.9 1256.0 1266.1 1271.1 1276.1 1281.2 1306.1 1330.9	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94 6.09 6.17 6.24 6.32 6.39 6.47 6.54 6.54 6.91 7.27 7.63 7.99	86 [317.1] 1.6168 1.6189 1.6259 1.6328 1.6461 1.6525 1.6589 1.6651 1.6712 1.6772 1.6831 1.6889 1.6946 1.7002 1.7058 1.7166 1.7220 1.7272 1.7525 1.7765	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1230.2 1235.4 1240.5 1245.6 1255.7 1255.8 1266.0 1271.0 1276.0 1271.0 1276.0 1281.1 1306.0 1330.8	5.06 5.08 5.16 5.24 5.40 5.48 5.56 5.64 5.72 5.79 5.87 5.94 6.02 6.09 9.17 6.24 6.32 6.39 6.46 6.83 7.19 7.54 7.89	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6466 1.6510 1.6574 1.6637 1.6638 1.6758 1.6875 1.6875 1.6875 1.6932 1.6932 1.7048 1.7258 1.7258 1.7258 1.7258 1.7258 1.7258 1.7258 1.7258	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2 1219.5 1224.8 1230.0 1235.2 1245.5 1245.5 1250.6 1255.7 1260.8 1255.7 1260.8 1275.9 1275.9 1275.9 1281.0 1305.7 1355.5 1380.3	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50 5.57 5.65 5.72 5.80 5.87 5.95 6.02 6.17 6.24 6.32 6.39 6.75 7.10 7.45 7.80	88 [318.7] 1.6149 1.6159 1.6229 1.6298 1.6432 1.6496 1.6432 1.6496 1.6560 1.6622 1.6684 1.6744 1.6883 1.6875 1.7030 1.7085 1.7139 1.7192 1.7245 1.7499 1.7298 1.7499 1.7298 1.8187	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1245.4 1250.5 1255.6 1260.7 1265.7 1270.8 1275.8 1275.8 1280.9 1305.8 1330.7 1355.5
320 330 340 350 350 370 380 390 400 410 420 430 440 450 460 470 480 450 550 550 600 650	5.21 5.29 5.37 5.46 5.54 5.54 5.70 5.78 5.85 5.93 6.01 6.09 6.16 6.24 6.32 6.39 6.47 6.54 6.54 6.54 6.54 7.36 7.72	[3163] 1.6178 1.6204 1.6274 1.6343 1.6410 1.6476 1.6540 1.6653 1.6665 1.6786 1.6786 1.6786 1.6786 1.6786 1.6903 1.7016 1.7072 1.7126 1.7233 1.7286 1.7279 1.7779 1.7779	1185.5 1187.6 1193.1 1198.5 1209.3 1214.6 1219.9 1225.1 1230.3 1235.5 1240.7 1245.8 1250.9 1256.0 1261.0 1266.1 1271.1 1271.1 1276.1 1281.2 1330.9 1335.6	5.12 5.14 5.23 5.31 5.39 5.47 5.55 5.63 5.71 5.78 5.86 5.94 6.01 6.09 6.17 6.24 6.32 6.39 6.47 6.54 6.54 1.727 7.63	86 [317.1] 1.6168 1.6259 1.6325 1.6325 1.6461 1.6525 1.6589 1.6651 1.6712 1.6772 1.6831 1.6889 1.6946 1.7002 1.7058 1.7120 1.7272 1.7255 1.7765 1.7794	1185.7 1187.4 1192.9 1198.3 1203.7 1209.1 1214.4 1219.7 1225.0 1230.2 1235.4 1240.5 1245.6 1250.7 1255.8 1266.0 1271.0 1276.0 1271.0 1276.0 1281.1 1306.0 1330.8 1355.6 1380.4 1405.3	5.06 5.08 5.16 5.24 5.32 5.40 5.48 5.56 5.64 5.72 5.79 5.87 5.94 6.02 6.09 6.17 6.24 6.39 6.46 6.83 7.19 7.54	87 [317.9] 1.6159 1.6174 1.6244 1.6313 1.6380 1.6446 1.6510 1.6574 1.6637 1.6698 1.6758 1.6932 1.6932 1.6988 1.7044 1.7099 1.7153 1.7206 1.7258 1.7252 1.7981 1.8200 1.8410	1185.9 1187.1 1192.6 1198.1 1203.5 1208.9 1214.2 1219.5 1224.8 1230.0 1235.2 1240.4 1245.5 1250.6 1255.7 1260.8 1260.8 1260.9 1275.9 1275.9 1281.0 1305.9 1330.7 1335.5	5.01 5.02 5.10 5.18 5.26 5.34 5.42 5.50 5.57 5.65 5.72 5.80 5.87 5.95 6.02 6.10 6.17 6.32 6.39 6.32 6.39 5.745	88 [318.7] 1.6149 1.6159 1.6229 1.6228 1.6432 1.6436 1.6432 1.6436 1.6560 1.6622 1.6684 1.6744 1.6803 1.6918 1.6918 1.6975 1.7030 1.7085 1.7199 1.7199 1.7245 1.7499 1.7968	1186.1 1186.9 1192.4 1197.9 1203.3 1208.7 1214.0 1219.3 1224.6 1229.8 1235.0 1240.2 1245.4 1250.5 1255.6 1260.7 1265.7 1270.8 1275.8 1275.8 1280.9 1305.8 1330.7 1355.5

Pres- sure		89 [319.5]			90 [320.3]			91 [321.0]			92 [321.8]	57
Temp °F.	v	S	i	v	s	i	v	8	i		S	i
Sat.	4.96	1.6140	1186.3	4.91	1.6131	1186.5	4.85	1.6122	1186.7	4.81	1.6113	1186.9
330 340	5.04 5.12	1.6214 1.6283	1192.2 1197.7	4.98 5.06	1.6200 1.6269	1191.9 1197.5	4.93 5.00	1.6185 1.6254	1191.7 1197.2	4.87 4.94	1.6171 1.6240	1191.5 1197.0
350	5.20	1.6351	1203.1	5.14	1.6337	1202.9	5.08	1.6322	1202.7	5.02	1.6308	1202.5
360	5.28 5.36	1.6417 1.6482	1208.5 1213.8	5.22 5.29	1.6403	1208.3	5.16 5.23	1.6389 1.6454	1208.1 1213.5	5.10 5.17	1.6375 1.6440	1207.9
370 380	5.43	1.6546	1213.0	5.29	1.6532	1213.7	5.31	1.6518	1213.5	5.25	1.6504	1213.3 1218.6
390	5.51	1.6608	1224.4	5.45	1.6594	1224.3	5.38	1.6580	1224.1	5.32	1.6567	1223.9
400	5.58	1.6670	1229.7	5.52	1.6656	1229.5	5.46	1.6642	1229.3	5.40	1.6628	1229.2
410	5.66	1.6730	1234.9	5.59	1.6716	1234.7	5.53	1.6703	1234.6	5.47	1.6689	1234.4
420 430	5.73 5.81	1.6789 1.6847	1240.1 1245.2	5.67 5.74	1.6775	1239.9 1245.1	5.60 5.67	1.6762	1239.8 1244.9	5.54 5.61	1.6748 1.6807	1239.6
440	5.88	1.6904	1250.3	5.81	1.6891	1250.2	5.75	1.6878	1250.1	5.68	1.6864	1249.9
450 460	5.95	1.6961	1255.4	5.89 5.96	1.6948	1255.3 1260.4	5.82 5.89	1.6934	1255.2 1260.3	5.75	1.6921	1255.1 1260.2
400	6.03 6.10	1.7017 1.7072	1260.5 1265.6	6.03	1.7003	1265.5	5.96	1.7045	1265.4	5.83 5.90	1.6977	1265.3
480	6.17	1.7126	1270.7	6.10	1.7113	1270.6	6.03	1.7099	1270.4	5.97	1.7086	1270.3
490	6.24	1.7179	1275.7	6.17	1.7166	1275.6	6.10	1.7153	1275.5	6.04	1.7140	1275.4
500	6.32	1.7232	1280.7	6.24	1.7218	1280.6	6.17	1.7205	1280.5	6.11	1.7192	1280.4
550	6.67	1.7486	1305.7	6.60	1.7472	1305.7	6.52 6.87	1.7459	1305.6	6.45	1.7447	1305.5
600 650	7.02 7.37	1.7726 1.7955	1330.6 1355.4	6.95 7.29	1.7713 1.7942	1330.5 1355.4	7.21	1.7700	1330.5 1355.3	6.79 7.13	1.7688	1330.4 1355.3
700	7.72	1.8174	1380.2	7.63	1.8161	1380.2	7.55	1.8149	1380.1	7.46	1.8136	1380.1
750	8.06	1.8384	1405.2	7.97	1.8372	1405.1	7.88	1.8359	1405.1	7.79	1.8347	1405.1
800	8.40	1.8587	1430.3	8.31	1.8575	1430.2	8.21	1.8562	1430.2	8.12	1.8550	1430.2
850	8.74	1.8784	1455.5	8.64	1.8771	1455.4	8.55	1.8759	1455.4	8.45	1.8447	1455.4
		93			. 94			95			96	
-		[322.6]			[323.3]			[324.1]			[324.8]	
Sat.	4.76	1.6105	1187.1	4.71	1.6096	1187.3	4.66	1.6087	1187.5	4.62	1.6079	1187.7
330 340	4.81 4.89	1.6156 1.6226	1191.2 1196.8	4.76 4.83	1.6142 1.6212	1191.0 1196.5	4.71 4.78	1.6128 1.6198	1190.8 1196.3	4.65	1.6114 1.6184	1190.5 1196.1
350	4.97	1.6294	1202.3	4.91	1.6280	1202.0	4.86	1.6266	1201.8	4.80	1.6253	1201.6
360	5.04	1.6361	1207.7	4.99	1.6347	1207.5	4.93	1.6334	1207.3	4.88	1.6320	1207.1
370	5.12	1.6426	1213.1	5.06	1.6413	1212.9]	5.00	1.6399	1212.7	4.95	1.6386	1212.5
380	5.19	1.6490	1218.4	5.13	1.6477	1218.3	5.08	1.6463	1218.1	5.02	1.6450	1217.9
390 400	5.26	1.6553	1223.7	5.21		1223.6	5.15	1.6526	1223.4	5.09		1223.2
410	5.34 5.41	1.6615	1229.0	5.28 5.35	1.6601	1228.8	5.22	1.6588	1228.7	5.16 5.23	1.6575 1.6636	1228.5 1233.8
420	5.48	1.6735	1239.5	5.42	1.6722	1239.3	5.36	1.6709	1239.1	5.30	1.6696	1239.0
430	5.55	1.6794	1244.6	5.49	1.6781	1244.5	5.43	1.6768	1244.3	5.37	1.6755	1244.2
440	5.62	1.6851	1.249.8	5.56	1.6838	1249.7	5.50	1.6825	1249.5	5.44	1.6812	1249.4
450	5.69	1.6908	1254.9	5.63	1.6895	1254.8	5.57	1.6882	1254.7	5.51	1.6869	1254.5
460	5.76	1.6964	1260.0	5.70	1.6951 1.7006	1259.9 1265.0	5.64	1.6938	1259.8	5.58	1.6926 1.6981	1259.7
470 480	5.83 5.90	1.7019 1.7073	1205.1	5.77 5.84	1.7060	1205.0	5.7I 5.77	1.6993	1264.9	5.65 5.71	1.7035	1264.8 1269.9
490	5.97	1.7127	1275.3	5.91	1.7114	1275.2	5.84	1.7101	1275.1	5.78	1.7089	1275.0
500	6.04	1.7180	1280.3	5.97	1.7167	1280.2	5.91	1.7154	1280.1	5.85	1.7142	1280.0
550	6.38	1.7434	1305.4	6.31	1.7422	1305.3	6.25	1.7409	1305.2	6.18	1.7397	1305.1
600 650	6.72	1.7675	1330.3	6.65 6.98	1.7663 1.7893	1330.2 1355.1	6.58 6.90	1.7651	1330.2 1355.1	6.51 . 6.83	1.7639 1.7869	1330.1 1355.0
700	7.05 7.38	1.7905	1355.2 1380.1	7.30	1.7093	1355.1	7.22	1.8100	1355.1 1380.0	7.15	1.8088	1355.0
750	7.71	1.8335	1405.0	7.63	1.8323	1405.0	7.55	1.8311	1404.9	7.47	1.8299	1404.9
800	8.04	1.8538	1430.1	7.95	1.8526	1430.1	7.87	1.8514	1430.0	7.78	1.8502	1430.0
850	8.36	1.8735	1455.3	8.27	1.8723	1455.3	8.19	1.8711	1455.3	8.10	1.8699	1455.3
				12,0	v.F							

330 4.60 1.6100 1190.3 4.55 1.6086 1190.1 4.50 1.6073 1189.8 4.46 1	[327.8]	30.0		99 [327.1]			98 [326.3]			97 [325.6]		Pres- sure
Sat. 4.57 1.6070 1187.8 4.53 1.6062 1188.0 4.48 1.6053 1188.2 4.44 1 330 4.60 1.6100 1190.3 4.55 1.6086 1190.1 4.50 1.6073 1189.8 4.46 1	s i	v	i	8	v	i	S	v	i	s	v	Temp ° F.
330 4.60 1.6100 1190.3 4.55 1.6086 1190.1 4.50 1.6073 1189.8 4.46 1 340 4.68 1.6171 1195.9 4.63 1.6157 1195.7 4.58 1.6144 1195.4 4.53 1	1.6045 1188.4	4.44	1188.2	1.6053	4.48	1188.0	1.6062	4.53	1187.8	1.6070		
	1.6059 1189.6 1.6130 1195.2									1 .		
	1.6199 1200.8 1.6267 1206.3											
370 4.90 1.6372 1212.3 4.84 1.6359 1212.1 4.79 1.6346 1211.9 4.74 1	1.6333 1211.7	4.74	1211.9	1.6346	4.79	1212.1	1.6359	4.84	1212.3	1.6372	4.90	370
	1.6398 1217.1 1.6461 1222.5											
400 5.11 1.6562 1228.3 5.05 1.6549 1228.2 5.00 1.6536 1228.0 4.95 1	1.6523 1227.8	4.95	1228.0	1.6536	5.00	1228.2	1.6549	5.05	1228.3	1.6562	5.11	400
	1.6585 1233.1											
	1.6645 1238.4 1.6704 1243.6											
	1.6762 1248.8							-				
	1.6820 1254.0				5.34							
	1.6876 1259.2									1.6913		
	1.6932 1264.3 1.6986 1269.4											
490 5.72 I.7077 I274.8 5.66 I.7064 I274.7 5.60 I.7052 I274.6 5.54 I	1.7040 1274.5										5.72	-
	1.7093 1279.6											
	1.7349 1304.8				5.99		1.7373					550
	1.7592 1329.8 1.7822 1354.8											
	1.8042 1379.7	6.86										
	1.8253 1404.7			1.8264			1.8276					
	1.8456 1429.9 1.8653 1455.1											
850 8.02 1.8687 1455.2 7.93 1.8676 1455.2 7.85 1.8665 1455.2 7.77 1	1.8653 1455.1	1.11	1455.2	1.0005	1.05	1455.4	1.0070	7.95	1455.2	1.0007	0.02	030
101 102 103 [328.5] [329.2] [330.0]	104 [330.7]			100			100			101		
	1.6012 1189.0		4									
Sat. 4.40 1.6037 1188.5 4.36 1.6028 1188.7 4.32 1.6020 1188.9 4.28 1		4.28	1188.9		4.32	1188.7		4.36	1188.5		4.40	Sat.
	1.6078 1194.3			[330.0] 1.6020			[329.2] 1.6028			[328.5] 1.6037		
340 4.48 1.6117 1195.0 4.43 1.6104 1194.8 4.39 1.6091 1194.5 4.34 1 350 4.55 1.6186 1200.6 4.50 1.6173 1200.3 4.46 1.6160 1200.1 4.41 1	1.6078 1194.3 1.6147 1199.9	4.34 4.41	1194.5 1200.1	[330.0] 1.6020 1.6091 1.6160	4.39 4.46	1194.8 1200.3	[329.2] 1.6028 1.6104 1.6173	4.43 4.50	1195.0 1200.6	[328.5] 1.6037 1.6117 1.6186	4.48 4.55	340 350
340 4.48 I.6117 I195.0 4.43 I.6104 I194.8 4.39 I.6091 I194.5 4.34 I 350 4.55 I.6186 I200.6 4.50 I.6173 I200.3 4.46 I.6160 I200.1 4.41 I 360 4.62 I.6254 I206.1 4.57 I.6241 I205.9 4.53 I.6228 I205.7 4.48 I	1.6078 1194.3 1.6147 1199.9 1.6215 1205.5	4.34 4.41 4.48	1194.5 1200.1 1205.7	[330.0] 1.6020 1.6091 1.6160 1.6228	4.39 4.46 4.53	1194.8 1200.3 1205.9	[329.2] 1.6028 1.6104 1.6173 1.6241	4·43 4.50 4·57	1195.0 1200.6 1206.1	[328.5] 1.6037 1.6117 1.6186 1.6254	4.48 4.55 4.62	340 350 360
340 4.48 I.6117 I195.0 4.43 I.6104 I194.8 4.39 I.6091 I194.5 4.34 I 350 4.55 I.6186 I200.6 4.50 I.6173 I200.3 4.46 I.6160 I200.1 4.41 I 360 4.62 I.6254 I206.1 4.57 I.6241 I205.9 4.53 I.6228 I205.7 4.48 I 370 4.69 I.6320 I211.6 4.64 I.6308 I211.4 4.60 I.6295 I211.2 4.55 I	1.6078 1194.3 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0	4.34 4.41 4.48 4.55	1194.5 1200.1 1205.7 1211.2	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6295	4.39 4.46 4.53 4.60	1194.8 1200.3 1205.9 1211.4	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308	4.43 4.50 4.57 4.64	1195.0 1200.6 1206.1 1211.6	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320	4.48 4.55 4.62 4.69	340 350 360 370
340 4.48 I.6117 I195.0 4.43 I.6104 I194.8 4.39 I.6091 I194.5 4.34 I 350 4.55 I.6186 I200.6 4.50 I.6173 I200.3 4.46 I.6160 I200.1 4.41 I 360 4.62 I.6254 I206.1 4.57 I.6241 I205.9 4.53 I.6228 I205.7 4.48 I 370 4.69 I.6320 I211.6 4.64 I.6308 I211.4 4.60 I.6295 I211.2 4.55 I 380 4.76 I.6385 I217.0 4.71 I.6373 I226.8 4.66 I.6365 I216.6 4.62 I 390 4.83 I.6448 I222.3 4.78 I.6436 I222.2 4.73 I.6424 I222.0 4.68 I	1.6078 1194.3 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0	4.34 4.41 4.48 4.55 4.62	1194.5 1200.1 1205.7 1211.2 1216.6	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6295 1.6360	4.39 4.46 4.53 4.60 4.66	1194.8 1200.3 1205.9 1211.4 1216.8	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373	4.43 4.50 4.57 4.64 4.71	1195.0 1200.6 1206.1 1211.6 1217.0	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385	4.48 4.55 4.62 4.69 4.76	340 350 360 370 380 390
340 4.48 I.6117 I195.0 4.43 I.6104 I194.8 4.39 I.6091 I194.5 4.34 I 350 4.55 I.6186 I200.6 4.50 I.6173 I200.3 4.46 I.6160 I200.1 4.41 I 360 4.55 I.6186 I200.6 4.50 I.6173 I200.3 4.46 I.6160 I200.1 4.41 I 360 4.62 I.6254 I206.1 4.57 I.6241 I205.9 4.53 I.6228 I205.7 4.48 I 370 4.69 I.6320 I211.6 4.64 I.6308 I211.4 4.60 I.6295 I211.2 4.55 I 380 4.76 I.6385 I217.0 4.71 I.6373 I216.8 4.66 I.6360 I216.6 4.62 I 390 4.83 I.6448 I222.3 4.78 I.6436 I227.5 4.80 I.6486 I227.3 4.75 I <tr< td=""><td>1.6078 1194.3 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6474 1227.2</td><td>4.34 4.41 4.48 4.55 4.62 4.68 4.75</td><td>1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3</td><td>[330.0] 1.6020 1.6091 1.6160 1.6228 1.6295 1.6360 1.6424 1.6486</td><td>4.39 4.46 4.53 4.60 4.66 4.73 4.80</td><td>1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5</td><td>[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373 1.6436 1.6499</td><td>4.43 4.50 4.57 4.64 4.71 4.78 4.85</td><td>1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7</td><td>[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6511</td><td>4.48 4.55 4.62 4.69 4.76 4.83 4.90</td><td>340 350 360 370 380 390 400</td></tr<>	1.6078 1194.3 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6474 1227.2	4.34 4.41 4.48 4.55 4.62 4.68 4.75	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6295 1.6360 1.6424 1.6486	4.39 4.46 4.53 4.60 4.66 4.73 4.80	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373 1.6436 1.6499	4.43 4.50 4.57 4.64 4.71 4.78 4.85	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6511	4.48 4.55 4.62 4.69 4.76 4.83 4.90	340 350 360 370 380 390 400
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.6078 1194.3 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6474 1227.2 1.6535 1232.5	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6295 1.6360 1.6424 1.6486 1.6547	4.39 4.46 4.53 4.60 4.66 4.73 4.80 4.80	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373 1.6436 1.6499 1.6560	4.43 4.50 4.57 4.64 4.71 4.78 4.85 4.85 4.91	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6511 1.6572	4.48 4.55 4.62 4.69 4.76 4.83 4.90 4.90	340 350 360 370 380 390 400 410
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.6078 1194.3 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.64535 1237.2 1.6535 1232.5 1.6535 1232.5 1.6536 1237.8	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82 4.88	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6 1237.9	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6295 1.6360 1.6424 1.6486 1.6547 1.6608	4.39 4.46 4.53 4.60 4.66 4.73 4.80 4.86 4.93	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8 1238.1	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373 1.6436 1.6499 1.6560 1.6621	4.43 4.50 4.57 4.64 4.71 4.78 4.85 4.91 4.98	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0 1238.2	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6511 1.6572 1.6633	4.48 4.55 4.62 4.69 4.76 4.83 4.90 4.97 5.03	340 350 360 370 380 390 400 410 420
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.6078 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6535 1232.5 1.6596 1237.8 1.6556 1243.0 1.6714 1224.8	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82 4.88 4.94 5.01	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6 1237.9 1243.2	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6225 1.6360 1.6424 1.6486 1.6547 1.6668 1.6628 1.6726	4.39 4.46 4.53 4.60 4.66 4.73 4.80 4.80 4.86 4.93 4.99	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8 1238.1 1243.3 1248.5	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373 1.6436 1.6439 1.6560 1.6621 1.6680 1.6738	4.43 4.50 4.57 4.64 4.71 4.78 4.85 4.91 4.98 5.04	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0 1238.2 1243.5	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6571 1.6572 1.6633 1.6692 1.6750	4.48 4.55 4.62 4.69 4.76 4.83 4.90 4.97 5.03 5.10 5.16	340 350 360 370 380 390 400 410 420 430 440
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.6078 1194.3 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6535 1232.5 1.6556 1237.8 1.6566 1243.0 1.6714 1228.3 1.6772 1253.5	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82 4.88 4.94 5.01 5.07	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6 1237.9 1243.2 1248.4 1253.6	[330.0] 1.6020 1.6021 1.6160 1.6228 1.6295 1.6360 1.6424 1.6486 1.6547 1.6668 1.6726 1.6784	4.39 4.46 4.53 4.60 4.66 4.73 4.80 4.86 4.93 4.99 5.06 5.12	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8 1238.1 1243.3 1243.3 1248.5 1253.7	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373 1.6436 1.6499 1.6560 1.66821 1.6680 1.6738 1.6796	4.43 4.50 4.57 4.64 4.71 4.78 4.85 4.91 4.98 5.04 5.11 5.18	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0 1238.2 1243.5 1248.7 1253.9	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6511 1.6572 1.6633 1.6692 1.6750 1.6808	4.48 4.55 4.62 4.69 4.76 4.83 4.90 4.97 5.03 5.16 5.23	340 350 360 370 380 390 400 410 420 430 440 440 450
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.6078 1194.3 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6535 1232.5 1.6536 1237.8 1.6556 1237.8 1.6574 1228.3 1.6574 1237.2 1.6528 1233.8 1.6574 1228.3 1.6574 1228.3	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82 4.88 4.94 5.01 5.07 5.14	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6 1237.9 1243.2 1248.4 1253.6 1258.8	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6295 1.6320 1.6424 1.6486 1.6547 1.6668 1.6668 1.6726 1.6726 1.6784 1.6840	4.39 4.46 4.53 4.60 4.66 4.73 4.80 4.80 4.93 4.99 5.06 5.12 5.19	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8 1238.1 1243.3 1248.5 1253.7 1258.9	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6308 1.6436 1.6439 1.6520 1.6680 1.66738 1.6738 1.6796 1.6852	4.43 4.50 4.57 4.64 4.71 4.78 4.85 4.91 4.98 5.04 5.11 5.18 5.24	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0 1238.2 1243.5 1248.7 1253.9 1259.0	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6511 1.6572 1.6632 1.6692 1.6750 1.6808 1.6804	4.48 4.55 4.62 4.69 4.76 4.83 4.90 4.97 5.03 5.10 5.16 5.23 5.29	340 350 370 380 390 400 410 420 430 440 450 460
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1.6078 1194.3 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6547 1232.5 1.6556 1237.8 1.6576 1243.0 1.66714 1225.3 1.6576 1243.0 1.66714 1253.5 1.6628 1258.7 1.6828 1258.7 1.6828 1258.7 1.6824 126.38	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82 4.88 4.94 5.01 5.07 5.14 5.20	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6 1237.9 1243.2 1248.4 1253.6 12258.8 1263.9	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6225 1.6225 1.6424 1.6486 1.6547 1.6668 1.6668 1.66726 1.6726 1.6784 1.6896	4.39 4.46 4.53 4.60 4.66 4.73 4.80 4.86 4.93 4.99 5.06 5.12 5.19 5.25	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8 1228.1 1248.3 1248.5 1253.7 1258.9 1264.0	[329,2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373 1.6436 1.6439 1.6560 1.6680 1.66738 1.6738 1.6796 1.6852 1.6908	4.43 4.50 4.57 4.64 4.71 4.78 4.85 4.91 4.98 5.04 5.11 5.18 5.24 5.30	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0 1238.2 1243.5 1243.5 1248.7 1259.0 1259.0 1264.2	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6571 1.66572 1.6633 1.6692 1.6750 1.6808 1.6808 1.6864 1.6920	4.48 4.55 4.62 4.69 4.76 4.83 4.90 4.97 5.03 5.10 5.16 5.23 5.29 5.36	340 350 360 370 380 390 400 410 420 430 440 450 460 470
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.6078 1199.9 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6535 1237.8 1.6596 1237.8 1.6574 1225.5 1.6584 1243.0 1.6772 1253.5 1.6824 1263.8 1.6672 1253.5 1.6824 1263.8 1.6939 1264.9 1.6742 1253.5 1.6824 1263.8 1.6939 1264.9 1.6733 1304.4 1.7303 1304.4 1.7546 1329.5	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82 4.88 4.94 5.01 5.07 5.120 5.26 5.26 5.32 5.39 5.69 6.00	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6 1237.9 1243.2 1248.4 1253.6 1258.8 1263.9 1269.1 1274.2 1279.3 1304.5 1329.6	[330.0] 1.6020 1.6020 1.6091 1.6160 1.6228 1.6225 1.6360 1.6424 1.6486 1.6547 1.6668 1.6726 1.6784 1.6896 1.6951 1.7055 1.7315 1.7355	$\begin{array}{r} 4.39\\ 4.46\\ 4.53\\ 4.60\\ 4.66\\ 4.73\\ 4.80\\ 4.86\\ 4.93\\ 4.93\\ 5.06\\ 5.12\\ 5.12\\ 5.12\\ 5.31\\ 5.38\\ 5.45\\ 5.75\\ 6.06\\ \end{array}$	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8 1238.1 1243.3 1248.5 1253.7 1258.9 1264.0 1269.2 1274.3 1279.4 1304.6 1329.7	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373 1.6436 1.6499 1.6560 1.6621 1.6738 1.6796 1.6796 1.6796 1.6908 1.6902 1.7016 1.7326 1.7358	4.43 4.50 4.57 4.64 4.71 4.78 4.85 4.91 4.98 5.04 5.11 5.18 5.24 5.30 5.37 5.43 5.50 5.81 6.12	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0 1238.2 1243.5 1243.5 1248.7 1253.9 1254.2 1269.3 1274.4 1279.5 1304.7 1329.8	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6571 1.6572 1.6633 1.6692 1.6750 1.6808 1.6804 1.6920 1.6920 1.6920 1.6920 1.6924 1.7028 1.7338 1.7580	4.48 4.55 4.69 4.76 4.83 4.90 4.97 5.03 5.16 5.23 5.29 5.36 5.42 5.42 5.49 5.55 5.87 6.18	340 350 360 370 380 390 400 410 420 440 440 450 450 450 450 550 600
3404.481.61171195.04.431.61041194.84.391.60911194.54.3413504.551.61861200.64.501.61731200.34.461.61601200.14.4113604.621.62541206.14.571.62411205.94.531.62281205.74.4813704.691.63201211.64.641.63081211.44.601.62951211.24.5513804.761.63851217.04.711.63731226.84.661.63601216.64.6213904.831.64481222.34.781.64361222.24.731.64241222.04.6814004.901.65111227.74.851.64991227.54.801.64861227.34.7514104.971.6572123.04.911.65601232.84.861.65471232.64.8214205.031.66331238.24.981.66211238.14.931.66081237.94.8814305.161.67501248.75.111.67381248.55.061.67661232.64.8214405.161.66921243.55.041.66801243.34.991.66881237.94.8814505.231.68081259.05.241.66851253.75.121.67841	1.6078 1199.9 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6547 1237.8 1.6556 1237.8 1.6556 1243.0 1.66714 1253.5 1.6526 1248.3 1.66714 1258.7 1.6828 1258.7 1.6828 1268.9 1.6939 1264.9 1.6939 1274.1 1.7046 1279.2 1.7303 1304.4	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82 4.88 4.94 5.01 5.07 5.14 5.26 5.32 5.39 5.69 5.60 6.30	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6 1237.9 1243.2 1243.2 1248.4 1253.6 1258.8 1269.1 1274.2 1279.3 1304.5 1329.6 1329.6 1329.6	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6228 1.6228 1.6228 1.6424 1.6424 1.6424 1.6584 1.6584 1.6668 1.6726 1.6726 1.6784 1.6896 1.6795 1.7058 1.7058 1.7757	$\begin{array}{r} 4.39\\ 4.46\\ 4.53\\ 4.66\\ 4.73\\ 4.86\\ 4.93\\ 4.99\\ 5.06\\ 5.12\\ 5.19\\ 5.25\\ 5.31\\ 5.38\\ 5.45\\ 5.75\\ 6.06\\ 6.36\\ \end{array}$	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8 1238.1 1243.3 1243.3 1248.5 1253.7 1258.9 1269.2 1269.2 1274.3 1279.4 1304.6	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6308 1.6373 1.6436 1.6439 1.6436 1.6439 1.6550 1.6685 1.6738 1.6796 1.6968 1.6796 1.6962 1.7070 1.7368 1.7798	4.43 4.50 4.57 4.64 4.71 4.78 4.85 4.91 4.98 5.04 5.11 5.18 5.24 5.30 5.37 5.43 5.50 5.51 6.12 6.42	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0 1238.2 1243.5 1243.5 1248.7 1253.9 1259.0 1269.3 1274.4 1279.5 1304.7 1329.8 1354.7	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6572 1.6633 1.6692 1.6750 1.6808 1.6808 1.6804 1.6920 1.6728 1.7081 1.7380	4.48 4.55 4.69 4.76 4.83 4.90 4.97 5.03 5.10 5.16 5.23 5.29 5.36 5.42 5.42 5.49 5.55 5.87 6.18 6.49	340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 600 650 650
3404.481.61171195.04.431.61041194.84.391.60911194.54.3413504.551.61861200.64.501.61731200.34.461.61601200.14.4113604.621.62541206.14.571.62411205.94.531.62281205.74.4813704.691.63201211.64.641.63081211.44.601.62951211.24.5513804.761.63851217.04.711.63731226.84.661.63601216.64.6214004.901.65111227.74.851.64991227.54.801.64861227.34.7514104.971.6572123.04.911.65601232.84.861.65681237.94.8814205.031.66331238.24.981.66211238.14.931.666881237.94.8814305.161.67501248.75.111.67381248.55.061.67261248.45.0114505.231.68081259.95.181.69261253.75.121.67841258.65.0714505.231.69211264.25.331.69211264.05.251.68961263.95.2014505.231.68081259.95.371.69281264.05.251.6896	1.6078 1199.9 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6535 1232.5 1.6596 1237.8 1.6572 1253.5 1.6574 1227.2 1.6535 1232.8 1.6676 1243.0 1.6772 1253.5 1.6824 1263.8 1.6678 1258.7 1.6828 1263.8 1.6939 1274.1 1.7303 1304.4 1.7364 1329.5 1.7776 1354.5 1.7776 1379.5 1.8208 1404.6	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82 4.88 4.94 5.01 5.07 5.14 5.20 5.26 5.32 5.39 5.69 6.50 6.50	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6 1237.9 1243.2 1243.2 1248.4 1253.6 1258.8 1263.9 1269.1 1274.2 1279.3 1304.5 1329.6 1354.6 1379.6	[330.0] 1.6020 1.6021 1.6160 1.6228 1.6228 1.6225 1.6225 1.62424 1.6486 1.6547 1.6668 1.6726 1.6784 1.6688 1.6726 1.6951 1.7055 1.7058 1.7315 1.7787 1.8007	4.39 4.46 4.53 4.60 4.66 4.73 4.80 4.86 4.93 4.99 5.06 5.12 5.19 5.25 5.31 5.38 5.45 5.75 6.06 6.36 6.66	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8 1238.1 1243.3 1248.5 1253.7 1258.9 1264.0 1269.2 1274.3 1279.4 1304.6 1329.7 1354.7 1379.6	[329,2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373 1.6436 1.6439 1.6560 1.6680 1.6680 1.6738 1.6908 1.6908 1.6908 1.6908 1.6908 1.6908 1.6908 1.7070 1.7326 1.7758 1.7798 1.8018	$\begin{array}{c} 4.43\\ 4.50\\ 4.57\\ 4.64\\ 4.71\\ 4.78\\ 4.85\\ 4.91\\ 4.98\\ 5.04\\ 5.11\\ 5.18\\ 5.24\\ 5.30\\ 5.37\\ 5.43\\ 5.50\\ 5.81\\ 6.12\\ 6.42\\ 6.73\\ \end{array}$	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0 1233.2 1243.5 1243.5 1243.5 1243.7 1253.9 1253.9 1254.2 1269.3 1274.4 1279.5 1304.7 1329.8 1354.7 1379.7	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6571 1.6572 1.6633 1.66929 1.6750 1.6808 1.6920 1.6974 1.7028 1.7081 1.7338 1.7580 1.7810 1.8330	4.48 4.55 4.62 4.69 4.76 4.83 4.90 4.97 5.00 5.10 5.10 5.10 5.10 5.10 5.10 5.23 5.29 5.36 5.42 5.49 5.55 5.87 6.18 6.49 6.80	340 350 360 370 380 390 400 410 420 430 440 450 450 450 450 550 600 650 700
3404.481.61171195.04.431.61041194.84.391.60911194.54.3413504.551.61861200.64.501.61731200.34.461.61601200.14.4113604.621.62541206.14.571.62411205.94.531.62281205.74.4813704.691.63201211.64.641.63081211.44.601.62951211.24.5513804.761.63851217.04.711.63731226.84.661.63601216.64.6214004.901.65111227.74.851.64991227.54.801.64861227.34.7514104.971.6572123.04.911.65601232.84.861.65471232.64.8214205.031.66331238.24.981.66211238.14.931.66081243.24.9414305.161.67501248.75.111.67381248.55.061.67261248.45.0114505.231.68081259.05.241.66921253.75.121.67841253.65.0714505.231.69211264.25.301.69251264.95.251.68961258.85.1414705.361.69201264.25.371.69211264.05.251.68961	1.6078 1199.9 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6535 1232.5 1.6536 1237.8 1.66744 1227.2 1.6535 1232.5 1.6596 1237.8 1.66714 1248.3 1.6772 1253.5 1.6828 1263.8 1.6939 1274.1 1.79046 1279.2 1.7303 1304.4 1.7546 1329.5 1.7776 1354.5 1.7797 1379.5 1.8208 1404.6	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82 4.88 4.94 5.01 5.07 5.14 5.20 5.26 5.32 5.39 5.69 6.00 6.30 6.60 6.89 7.18	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6 1237.9 1243.2 1243.2 1243.4 1253.6 1253.6 1253.8 1269.1 1274.2 1279.3 1304.5 1329.6 1329.6 1329.6 1329.6 1329.6 1329.6 1329.6 1329.6 1329.6 1329.6 1329.6 1329.6 1329.6 1329.6 1329.2 1249.2	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6228 1.6228 1.6242 1.6424 1.6486 1.6547 1.6668 1.6726 1.6784 1.6836 1.6726 1.6784 1.6836 1.6951 1.7058 1.7058 1.7757 1.7787 1.7787 1.7787 1.8207 1.8219 1.8422	4.39 4.46 4.53 4.60 4.66 4.73 4.80 4.86 4.93 4.93 4.93 5.95 5.12 5.195 5.311 5.38 5.455 6.06 6.666 6.966 7.25	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8 1232.8 1243.3 1248.5 1253.7 1258.9 1264.0 1269.2 1274.3 1279.4 1304.6 1329.7 1354.7 1379.6 1404.7 1429.8	[329.2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6373 1.6436 1.6439 1.6439 1.6456 1.6685 1.6738 1.6738 1.6796 1.6852 1.6968 1.6968 1.6968 1.7796 1.7568 1.7798 1.8518 1.8230 1.8433	$\begin{array}{c} 4.43\\ 4.50\\ 4.57\\ 4.64\\ 4.71\\ 4.78\\ 4.85\\ 4.91\\ 4.98\\ 5.04\\ 5.11\\ 5.18\\ 5.24\\ 5.30\\ 5.37\\ 5.43\\ 5.50\\ 5.81\\ 6.12\\ 6.42\\ 6.73\\ 7.03\\ 7.32\\ \end{array}$	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0 1238.2 1243.5 1243.5 1248.7 1253.9 1259.0 1264.2 1269.3 1274.4 1279.5 1304.7 1329.8 1354.7 1379.7 1404.7 1429.8	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6511 1.6572 1.6633 1.6692 1.6750 1.6808 1.6692 1.6750 1.6808 1.6920 1.6974 1.7081 1.7380 1.7580 1.7810 1.7810 1.7810 1.8030 1.8241 1.8445	4.48 4.55 4.69 4.76 4.83 4.90 4.97 5.03 5.16 5.23 5.29 5.36 5.42 5.42 5.42 5.49 5.55 5.87 6.18 6.49 6.80 7.10 7.40	340 350 360 370 380 390 400 410 420 440 440 450 460 470 480 490 550 600 550 600 650 700 800
3404.481.61171195.04.431.61041194.84.391.60911194.54.3413504.551.61861200.64.501.61731200.34.461.61601200.14.4113604.621.62541206.14.571.62411205.94.531.62281205.74.4813704.691.63201211.64.641.63081211.44.601.62951211.24.5513804.761.63851217.04.711.63731216.84.661.63601222.04.6814004.901.65111227.74.851.64361222.24.731.64241222.04.6814104.971.65721233.04.911.65601232.84.861.66861227.34.7514205.031.66331238.24.981.66211238.14.931.66681237.94.8814305.101.66921248.75.111.67381248.55.061.67261248.45.0114505.231.68881253.95.181.67961253.75.121.67841253.65.0714505.231.68641259.95.371.69621269.25.311.69511258.85.1414605.231.68641259.95.301.69681253.75.121.6784	1.6078 1199.9 1.6147 1199.9 1.6215 1205.5 1.6282 1211.0 1.6347 1216.4 1.6411 1221.8 1.6535 1232.5 1.6596 1237.8 1.6572 1253.5 1.6574 1227.2 1.6535 1232.8 1.6676 1243.0 1.6772 1253.5 1.6824 1263.8 1.6678 1258.7 1.6828 1263.8 1.6939 1274.1 1.7303 1304.4 1.7364 1329.5 1.7776 1354.5 1.7776 1379.5 1.8208 1404.6	4.34 4.41 4.48 4.55 4.62 4.68 4.75 4.82 4.88 4.94 5.01 5.07 5.14 5.20 5.26 5.32 5.39 5.69 6.60 6.30 6.60 6.89 7.18 7.48	1194.5 1200.1 1205.7 1211.2 1216.6 1222.0 1227.3 1232.6 1232.6 1232.9 1243.2 1248.4 1253.6 1253.6 1258.8 1263.9 1269.1 1274.2 1279.3 1304.5 1329.6 1354.6 1359.6 1404.6 1429.8 1455.1	[330.0] 1.6020 1.6091 1.6160 1.6228 1.6295 1.6360 1.6424 1.6486 1.6547 1.6668 1.6726 1.6668 1.6726 1.6896 1.6896 1.6951 1.7058 1.7058 1.7315 1.7557 1.7787 1.8007 1.8219 1.8422 1.8619	4.39 4.46 4.53 4.60 4.66 4.73 4.80 4.80 4.93 4.99 5.06 5.12 5.31 5.38 5.45 5.75 6.06 6.36 6.36 6.96 7.25 7.55	1194.8 1200.3 1205.9 1211.4 1216.8 1222.2 1227.5 1232.8 1238.1 1243.3 1248.5 1253.7 1258.9 1264.0 1269.2 1274.3 1279.4 1309.6 1329.7 1354.7 1379.6 1404.7 1429.8	[329,2] 1.6028 1.6104 1.6173 1.6241 1.6308 1.6308 1.6436 1.6436 1.6439 1.6436 1.6680 1.6680 1.6680 1.6738 1.6968 1.6968 1.6968 1.6968 1.7016 1.7070 1.7326 1.7078 1.7038 1.8038 1.8230 1.8433 1.8630	4.43 4.50 4.57 4.64 4.71 4.78 4.85 4.91 4.98 5.04 5.11 5.18 5.24 5.30 5.37 5.43 5.50 5.37 5.43 5.50 5.512 6.42 6.73 7.03 7.03 7.62	1195.0 1200.6 1206.1 1211.6 1217.0 1222.3 1227.7 1233.0 1243.5 1243.5 1243.5 1248.7 1259.0 1264.2 1269.3 1274.4 1279.5 1309.4 1329.8 1354.7 1329.8 1354.7 1404.7 1404.7 1429.8	[328.5] 1.6037 1.6117 1.6186 1.6254 1.6320 1.6385 1.6448 1.6511 1.6572 1.6633 1.6692 1.6750 1.6808 1.6808 1.6920 1.6974 1.7081 1.7338 1.7380 1.7810 1.8845 1.8845	4.48 4.55 4.62 4.69 4.76 4.83 4.90 4.97 5.03 5.10 5.10 5.10 5.10 5.10 5.23 5.29 5.36 5.42 5.49 5.55 5.87 6.18 6.49 6.80 7.10 7.40 7.70	340 350 360 370 380 390 400 410 420 430 440 450 450 450 550 650 550 650 700 750 800 850

-		105			106			107			100	
Pres- sure		[331.4]			[332.0]			[332.7]			108 [333-4]	
Temp °F.	v	S	i	V	S	i	V	s	i	v	s	i
Sat.	4.24	1.6004	1189.2	4.20	1.5996	1189.4	4.17	1.5989	1189.5	4.13	1.5981	1189.7
340	4.30	1.6065	1194.1	4.26	1.6052	1193.8	4.21	1.6040	1193.6	4.17	1.6027	1193.4
350	4.37	1.6135	1199.7	4.32	1.6122	1199.5	4.28	1.6110.	1199.2	4.24	1.6097	1199.0
360	4.44	1.6203	1205.3 1210.8	4.39 4.46	1.6191	1205.1 1210.6	4.35	1.6178 1.6245	1204.8	4.31	1.6166 1.6233	1204.6
370 380	4.50 4.57	1.6335	1210.3	4.40	1.6323	1216.0	4.42 4.48	1.6311	1210.4 1215.9	4.37 4.44	1.6233	1210.2 1215.7
390	4.64	1.6399	1221.6	4.59	1.6387	1221.4	4.55	1.6375	1221.3	4.50	1.6363	1221.1
400	4.70	1.6462	1227.0	4.66	1.6450	1226.8	4.61	1.6438	1226.7	4.57	1.6426	1226.5
410	4.77	1.6523	1232.3	4.72	1.6512	1232.2	4.67	1.6500	1232.0	4.63	1.6488	1231.8
420	4.83	1.6584	1237.6	4.79	1.6573	1237.5	4.74	1.6561	1237.3	4.69	1.6549	1237.2
430 440	4.90 4.96	1.6644	1242.9 1248.1	4.85 4.91	1.6632 1.6691	1242.7 1248.0	4.80 4.87	1.6620 1.6679	1242.6 1247.8	4.76 4.82	1.6609	1242.5 1247.7
450	5.02	1.6760	1253.3 1258.5	4.98	1.6748	1253.2 1258.4	4.93	1.6737	1253.1 1258.3	4.88 4.94	1.6725	1252.9
460 470	5.09	1.6872	1250.5	5.04 5.10	1.6861	1250.4	4.99 5.05	1.6793 1.6849	1258.3	4.94 5.00	1.6838	1250.1
480	5.21	1.6927	1268.8	5.16	1.6916	1268.7	5.11	1.6905	1268.6	5.06	1.6893	1268.5
490	5.27	1.6981	1273.9	5.22	1.6970	1273.8	5.17	1.6959	1273.7	5.12	1.6947	1273.6
500	5.33	1.7035	1279.0	5.28	1.7024	1278.9	5.23	1.7012	1278.8	5.18	1.7001	1278.7
550	5.64	1.7292	1304.4	5.58	1.7281	1304.3	5.53	1.7270	1304.2	5.48	1.7259	1304.1
600	5.94	1.7535	1329.5	5.88	1.7524	1329.4	5.83	1.7513	1329.3	5.77	1.7503	1329.3
650 700	6.24 6.53	1.7766	1354.5 1379.5	6.18 6.47	1.7755 1.7976	1354.4 1379.4	6.12 6.41	1.7744 1.7965	1354.4 1379.4	6.06 6.35	1.7733 1.7954	1354.3 1379.3
750												
800	6.82 7.11	1.8197 1.8401	1404.5 1429.7	6.76 7.05	1.8187	1404.5	6.70 6.98	1.8176 1.8380	1404.5 1429.6	6.63 6.92	1.8166	1404.4
850	7.40	1.8599	1455.0	7.33	1.8588	1455.0	7.27	1.8577	1429.0	7.20	1.8567	1429.0
900	7.69	1.8790	1480.5	7.62	1.8779	1480.5	7.55	1.8769	1480.4	7.48	1.8758	1480.4
			1400.3	1.02	1.0//9	1400.5	1.33	1.0709	1400.4	1.40	1	1400.4
			140013			1400.5	1.33	1	1400.4		1	1400.4
		109 [334.1]			110 [334.8]	1400.5		111 [335.5]	1400.4		112 [336.1]	1400.4
Sat.	4.09	109	1189.8	4.06	110	1190.0	4.02	111	1190.1	3.99	112	1190.3
	4.09	109 [334.1]			110 [334.8]			111 [335.5]			112 [336.1]	
Sat. 340 350	4.13 4.20	109 [334.1] 1.5973 1.6014 1.6085	1189.8	4.06	110 [334.8] 1.5965 1.6002 1.6073	1190.0	4.02	111 [335-5] 1.5957 1.5990 1.6060	1190.1	3.99	112 [336.1] 1.5950 1.5977 1.6048	1190.3 1192.5 1198.2
Sat. 340 350 360	4.13 4.20 4.26	109 [334-1] 1.5973 1.6014 1.6085 1.6154	1189.8 1193.2 1198.8 1204.4	4.06 4.09 4.16 4.22	110 [334.8] 1.5965 1.6002 1.6073 1.6142	1190.0 1192.9 1198.6 1204.2	4.02 4.05 4.12 4.18	111 [335.5] 1.5957 1.5990 1.6060 1.6129	1190.1 1192.7 1198.4 1204.0	3.99 4.01 4.08 4.14	112 [336.1] 1.5950 1.5977 1.6048 1.6117	1190.3 1192.5 1198.2 1203.8
Sat. 340 350 360 370	4.13 4.20 4.26 4.33	109 [334-1] 1.5973 1.6014 1.6085 1.6154 1.6221	1189.8 1193.2 1198.8 1204.4 1210.0	4.06 4.09 4.16 4.22 4.29	110 [334.8] 1.5965 1.6002 1.6073 1.6142 1.6209	1190.0 1192.9 1198.6 1204.2 1209.8	4.02 4.05 4.12 4.18 4.25	111 [335.5] 1.5957 1.5990 1.6060 1.6129 1.6197	1190.1 1192.7 1198.4 1204.0 1209.6	3.99 4.01 4.08 4.14 4.21	112 [336.1] 1.5950 1.5977 1.6048 1.6117 1.6185	1190.3 1192.5 1198.2 1203.8 1209.4
Sat. 340 350 360	4.13 4.20 4.26	109 [334-1] 1.5973 1.6014 1.6085 1.6154	1189.8 1193.2 1198.8 1204.4	4.06 4.09 4.16 4.22	110 [334.8] 1.5965 1.6002 1.6073 1.6142	1190.0 1192.9 1198.6 1204.2	4.02 4.05 4.12 4.18	111 [335.5] 1.5957 1.5990 1.6060 1.6129	1190.1 1192.7 1198.4 1204.0	3.99 4.01 4.08 4.14	112 [336.1] 1.5950 1.5977 1.6048 1.6117	1190.3 1192.5 1198.2 1203.8
Sat. 340 350 360 370 380	4.13 4.20 4.26 4.33 4.39 4.46	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5	4.06 4.09 4.16 4.22 4.29 4.35	110 [334.8] 1.5965 1.6002 1.6073 1.6142 1.6209 1.6275	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3	4.02 4.05 4.12 4.18 4.25 4.31 4.37	111 [335.5] 1.5957 1.5990 1.6060 1.6129 1.6197 1.6263 1.6327	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1	3.99 4.01 4.08 4.14 4.21 4.27 4.33	112 [336.1] 1.5950 1.5977 1.6048 1.6117 1.6185 1.6252 1.6316	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9
Sat. 340 350 360 370 380 390	4.13 4.20 4.26 4.33 4.39	109 [334-1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54	110 [334.8] 1.5965 1.6002 1.6073 1.6142 1.6209 1.6275 1.6339 1.6403 1.6465	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7	4.02 4.05 4.12 4.18 4.25 4.31	111 [335.5] 1.5957 1.5990 1.6060 1.6129 1.6197 1.6263	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1 1220.6	3.99 4.01 4.08 4.14 4.21 4.21 4.27	112 [336.1] 1.5950 1.5977 1.6048 1.6177 1.6185 1.6252 1.6316 1.6379 1.6442	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1231.2
Sat. 340 350 360 370 380 390 400 410 420	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351 1.6414 1.6476 1.6537	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1231.7 1237.0	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.60	110 [334.8] 1.5965 1.6002 1.6073 1.6142 1.6209 1.6275 1.6339 1.6403 1.6465 1.6526	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.44 4.50 4.56	111 [335:5] [.5957 [.5990 [.6060 [.6129 [.6197 [.6263] [.6327 [.6391 [.6453] [.6514]	1190.1 1192.7 1198.4 1204.0 1205.1 1215.1 1220.6 1225.0 1226.0 1231.4 1236.7	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52	112 [336.1] I.5950 I.5977 I.6048 I.6177 I.6185 I.6252 I.6316 I.6379 I.6442 I.6503	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1231.2 1236.5
Sat. 340 350 360 370 380 390 400 410 420 430	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351 1.6414 1.6476 1.6537	1189.8 1193.2 1198.8 1204.4 1215.5 1220.9 1226.3 1231.7 1237.0 1242.3	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.60 4.67	110 [334.8] 1.5965 1.6002 1.6073 1.6142 1.6209 1.6275 1.6339 1.6403 1.6405 1.6526	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.44 4.50 4.56 4.62	111 [335:5] [.5957 [.5990 [.6060 [.6129 [.6197 [.6263 [.6327] [.6391 [.6453] [.6514 [.6574]	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1 1220.6 1221.4 1226.0 1231.4 1236.7	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52 4.58	112 [336.1] I.5950 I.5977 I.6048 I.6117 I.6185 I.6252 I.6316 I.6379 I.6442 I.6503 I.6563	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1231.2 1236.5 1241.9
Sat. 340 350 370 380 390 400 410 420 430 440	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351 1.6414 1.6476 1.6537 1.65597	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1231.7 1237.0 1242.3 1247.6	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.60 4.67 4.73	110 [334.8] 1.5965 1.6002 1.6073 1.6142 1.6209 1.6275 1.6339 1.6403 1.6465 1.6526 1.6526 1.6645	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2 1247.4	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.44 4.50 4.46 4.62 4.68	111 [335:5] [.5957 [.5990 [.6060 [.6129 [.6197 [.6263] [.6327 [.6327 [.6391 [.6453] [.6514 [.6574 [.6633]	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1 1220.6 1231.4 1236.7 1242.0 1247.3	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52 4.58 4.64	112 [336.1] I.5950 I.5977 I.6048 I.6117 I.6185 I.6252 I.6316 I.6379 I.6442 I.6503 I.6563 I.6563	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1231.2 1236.5 1241.9 1247.1
Sat. 340 350 360 380 390 400 410 420 430 440 450	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77 4.83	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351 1.6414 1.6476 1.6537 1.6597 1.6656 1.6714	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1231.7 1237.0 1242.3 1247.6 1252.8	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.60 4.67 4.73 4.79	110 [334.8] [.5965 [.6002 [.6073 [.6209 [.6275 [.6209 [.6275 [.6339 [.6403 [.6465 [.6526 [.6586 [.6586 [.6586 [.6645] [.6703]	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2 1247.4 1252.7	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.37 4.44 4.50 4.56 4.62 4.68 4.74	111 [335:5] I.5957 I.5990 I.6060 I.6129 I.6197 I.6263 I.6327 I.6331 I.6453 I.6514 I.6574 I.6633 I.6691	1190.1 1192.7 1198.4 1204.0 1205.1 1215.1 1220.6 1225.0 1231.4 1236.7 1242.0 1247.3 1252.5	3.99 4.01 4.08 4.14 4.21 4.33 4.39 4.46 4.52 4.58 4.64 4.70	112 [336.1] I.5950 I.5977 I.6048 I.6177 I.6185 I.6252 I.6316 I.6379 I.6442 I.6503 I.6563 I.6562 I.6680	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1231.2 1236.5 1241.9 1247.1 1252.4
Sat. 340 350 360 370 380 390 400 410 420 430 440 450 460	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77 4.83 4.89	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351 1.6414 1.6476 1.6537 1.6597 1.6656 1.6714	1189.8 1193.2 1198.8 1204.4 1215.5 1225.9 1226.3 1231.7 1237.0 1242.3 1247.6 1252.8 1258.0	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.60 4.67 4.73 4.79 4.85	110 [334.8] 1.5965 1.6002 1.6073 1.6142 1.6209 1.6275 1.6339 1.6403 1.6465 1.6526 1.6526 1.6645	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1242.2 1247.4 1252.7 1257.9	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.44 4.50 4.56 4.62 4.68 4.68 4.74 4.80	111 [335:5] I.5957 I.5990 I.6060 I.6129 I.6197 I.6263 I.6327 I.6331 I.6544 I.6574 I.6633 I.6691 I.6748	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1 1220.6 1226.0 1231.4 1236.7 1242.0 1247.3 1252.5 1257.7	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52 4.58 4.64 4.70 4.76	112 [336.1] I.5950 I.5977 I.6048 I.6117 I.6185 I.6252 I.6316 I.6379 I.6422 I.6503 I.6563 I.6563 I.6622 I.6680 I.6737	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1231.2 1236.5 1241.9 1247.1 1252.4 1257.6
Sat. 340 350 360 380 390 400 410 420 430 440 450	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77 4.83	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351 1.6414 1.6476 1.6537 1.6597 1.6656 1.6714	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1231.7 1237.0 1242.3 1247.6 1252.8	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.60 4.67 4.73 4.79	110 [334.8] 1.5965 1.6002 1.6073 1.6142 1.6209 1.6275 1.6326 1.6465 1.6526 1.6586 1.6586 1.6586 1.6645	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2 1247.4 1252.7	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.37 4.44 4.50 4.56 4.62 4.68 4.74	111 [335:5] I.5957 I.5990 I.6060 I.6129 I.6197 I.6263 I.6327 I.6331 I.6453 I.6514 I.6574 I.6633 I.6691	1190.1 1192.7 1198.4 1204.0 1205.1 1215.1 1220.6 1225.0 1231.4 1236.7 1242.0 1247.3 1252.5	3.99 4.01 4.08 4.14 4.21 4.33 4.39 4.46 4.52 4.58 4.64 4.70	112 [336.1] I.5950 I.5977 I.6048 I.6177 I.6185 I.6252 I.6316 I.6379 I.6442 I.6503 I.6563 I.6562 I.6680	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1231.2 1236.5 1241.9 1247.1 1252.4
Sat. 340 350 360 370 380 390 400 410 420 430 440 450 460 470	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77 4.83 4.89 4.96	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351 1.6414 1.6476 1.6597 1.6597 1.6556 1.6714 1.6771 1.6827	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1237.0 1242.3 1247.6 1252.8 1252.8 1258.0 1263.2	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.60 4.67 4.73 4.79 4.85 4.91	110 [334.8] 1.5965 1.6002 1.6073 1.6142 1.6209 1.6275 1.6339 1.6403 1.6403 1.6405 1.6586 1.6586 1.6586 1.6586 1.6703 1.6760 1.6816	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2 1247.4 1252.7 1257.9 1263.1	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.44 4.50 4.56 4.62 4.68 4.74 4.80 4.86	111 [335:5] I.5990 I.6060 I.6129 I.6197 I.6263 I.6327 I.6391 I.6453 I.6514 I.6574 I.6533 I.6614 I.6748 I.6748	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1 1220.6 1231.4 1236.7 1242.0 1247.3 1252.5 1257.7 1262.9	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52 4.58 4.64 4.70 4.76 4.82	112 [336.1] I.5950 I.5977 I.6048 I.6117 I.6185 I.6252 I.6316 I.6379 I.6442 I.6503 I.6563 I.6563 I.6622 I.6680 I.6737 I.6794	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1231.2 1236.5 1241.9 1247.1 1252.4 1257.6 1252.4
Sat. 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77 4.83 4.89 4.96 5.02	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6227 1.6351 1.6414 1.6476 1.6537 1.6556 1.6714 1.6771 1.6822	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1231.7 1237.0 1242.3 1247.6 1242.8 1247.6 1252.8 1258.0 1268.3	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.67 4.73 4.79 4.85 4.91 4.97	110 [334.8] [.5965 [.6002 [.6073 [.6142 [.6209 [.6275] [.6339 [.6455 [.6526 [.6586 [.6586 [.6586 [.6586 [.6645] [.6703 [.6703] [.6703] [.6703] [.6816 [.6816] [.6925]	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2 1247.4 1252.7 1257.9 1263.1 1268.2	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.44 4.50 4.56 4.62 4.68 4.62 4.68 4.74 4.80 4.86 4.92	111 [335:5] I.5990 I.6060 I.6129 I.6197 I.6263 I.6327 I.6391 I.6453 I.6514 I.6574 I.6633 I.66514 I.66748 I.6691 I.6748 I.6860	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1 1220.6 1231.4 1236.7 1242.0 1247.3 1252.5 1257.7 1262.9 1268.1	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52 4.58 4.64 4.70 4.76 4.82 4.88	112 [336.1] I.5950 I.5977 I.6048 I.6117 I.6185 I.6316 I.6379 I.6442 I.6503 I.6563 I.66503 I.66680 I.6737 I.6794 I.6849	1190.3 1192.5 1203.8 1209.4 1214.9 1225.8 1231.2 1236.5 1241.9 1247.1 1252.4 1252.4 1252.4 1252.8 1262.8 1268.0
Sat. 340 350 360 370 380 390 400 410 430 440 450 440 450 450 550	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77 4.83 4.89 4.96 5.02 5.08 5.14 5.43	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351 1.6414 1.6476 1.6537 1.6597 1.6556 1.6714 1.6771 1.6822 1.6936 1.6936 1.6930 1.7248	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1237.0 1242.3 1247.6 1252.8 1252.8 1258.0 1263.2 1268.3 1273.5 1278.6 1304.0	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.54 4.54 4.60 4.67 4.73 4.79 4.85 4.91 4.97 5.03 5.09 5.38	110 [334.8] [.5965 [.6002 [.6073 [.6142 [.6209 [.6275 [.6339 [.6403 [.6526 [.6526 [.6586 [.6586 [.6586 [.6645] [.6703 [.6703 [.6703 [.6703] [.6703 [.6816] [.6816] [.6871 [.6925] [.6979 [.7237]	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2 1247.4 1252.7 1263.1 1268.2 1273.4 1278.5 1303.9	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.44 4.50 4.56 4.62 4.68 4.74 4.80 4.92 4.98 5.04 5.33	111 [335:5] [.5990 [.6060 [.6129 [.6197 [.6263] [.6327 [.6391 [.6324 [.6574 [.6574 [.6574 [.6574 [.6574 [.6691] [.6748 [.6805 [.6860 [.6914] [.6968 [.7226]	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1 1220.6 1226.0 1231.4 1236.7 1242.0 1247.3 1252.5 1257.7 1262.9 1268.1 1273.3 1278.4 1303.8	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52 4.58 4.64 4.70 4.76 4.82 4.88 4.94 4.99 5.28	112 [336.1] I.5950 I.5977 I.6048 I.6117 I.6185 I.6252 I.6316 I.6379 I.6442 I.6503 I.6563 I.6563 I.6563 I.6563 I.6680 I.6737 I.6794 I.6849 I.6903 I.6957 I.7216	1190.3 1192.5 1192.5 1198.2 1203.8 1209.4 1214.9 1225.8 1231.2 1236.5 1241.9 1247.1 1252.4 1257.6 1262.8 1268.0 1273.1 1278.3 1303.7
Sat. 340 350 360 370 380 390 400 410 420 430 440 450 460 450 450 500 550 600	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.83 4.89 4.96 5.02 5.08 5.14 5.43 5.72	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6227 1.6351 1.6414 1.6476 1.6537 1.6557 1.6556 1.6714 1.6771 1.6827 1.6882 1.6936 1.6936	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1231.7 1237.0 1242.3 1247.6 1252.8 1258.0 1263.3 1273.5 1278.6 1304.0 1329.2	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.60 4.67 4.73 4.79 4.85 4.97 5.03 5.09 5.38 5.67	110 [334.8] [.5965 [.6002 [.6073 [.6142 [.6209 [.6275 [.6339 [.6403 [.6403 [.6403 [.6403 [.6526 [.6586 [.6586 [.6586 [.6703 [.6760 [.6871 [.6925 [.6979 [.7237 [.7481]	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2 1247.4 1252.7 1263.1 1263.2 1273.4 1278.5 1303.9.1 1329.1	$\begin{array}{c} 4.02\\ 4.05\\ 4.12\\ 4.18\\ 4.25\\ 4.31\\ 4.37\\ 4.37\\ 4.44\\ 4.50\\ 4.56\\ 4.62\\ 4.68\\ 4.74\\ 4.80\\ 4.92\\ 4.98\\ 5.04\\ 5.33\\ 5.62\\ \end{array}$	111 [335:5] [.5957 [.5990 [.6060 [.6129 [.6197 [.6263] [.6327 [.6391 [.6453] [.6453 [.6514 [.6574 [.6574 [.6663] [.6748 [.6805 [.6805] [.6806] [.6914 [.6968 [.7226] [.7470]	1190.1 1192.7 1198.4 1209.6 1215.1 1220.6 1231.4 1236.7 1242.0 1247.3 1252.5 1257.7 1262.9 1268.1 1273.3 1278.4 1303.8 1329.0	3.99 4.01 4.08 4.14 4.27 4.33 4.39 4.46 4.52 4.58 4.64 4.70 4.76 4.76 4.82 4.88 4.94 4.99 5.28 5.56	112 [336.1] [.5950 [.5977 [.6048 [.6177 [.61855 [.6252 [.6316] [.6379 [.6442 [.6503 [.6563] [.6680 [.6737 [.6794 [.6903] [.6957 [.7216] [.7460]	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1231.2 1236.5 1241.9 1247.1 1252.4 1257.6 1262.8 1262.8 1262.8 1262.8 1273.1 1278.3 1303.7 1329.0
Sat. 340 350 360 370 380 390 400 410 430 440 450 440 450 450 550	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77 4.83 4.89 4.96 5.02 5.08 5.14 5.43	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351 1.6414 1.6476 1.6537 1.6597 1.6556 1.6714 1.6771 1.6822 1.6936 1.6936 1.6930 1.7248	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1237.0 1242.3 1247.6 1252.8 1252.8 1258.0 1263.2 1268.3 1273.5 1278.6 1304.0	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.54 4.54 4.60 4.67 4.73 4.79 4.85 4.91 4.97 5.03 5.09 5.38	110 [334.8] [.5965 [.6002 [.6073 [.6142 [.6209 [.6275 [.6339 [.6403 [.6526 [.6526 [.6586 [.6586 [.6586 [.6645] [.6703 [.6703 [.6703 [.6703] [.6703 [.6816] [.6816] [.6871 [.6925] [.6979 [.7237]	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2 1247.4 1252.7 1263.1 1268.2 1273.4 1278.5 1303.9	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.44 4.50 4.56 4.62 4.68 4.74 4.80 4.92 4.98 5.04 5.33	111 [335:5] [.5990 [.6060 [.6129 [.6197 [.6263] [.6327 [.6391 [.6324 [.6574 [.6574 [.6574 [.6574 [.6574 [.6691] [.6748 [.6805 [.6860 [.6914] [.6968 [.7226]	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1 1220.6 1226.0 1231.4 1236.7 1242.0 1247.3 1252.5 1257.7 1262.9 1268.1 1273.3 1278.4 1303.8	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52 4.58 4.64 4.70 4.76 4.82 4.88 4.94 4.99 5.28	112 [336.1] I.5950 I.5977 I.6048 I.6117 I.6185 I.6252 I.6316 I.6379 I.6442 I.6503 I.6563 I.6563 I.6563 I.6680 I.6737 I.6794 I.6849 I.6903 I.6957 I.7216	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1231.2 1236.5 1241.9 1247.1 1252.4 1257.6 1262.8 1268.0 1273.1 1278.3 1303.7
Sat. 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 550 600 650 700	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77 4.83 4.89 4.96 5.02 5.08 5.14 5.43 5.72 6.01 6.29	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6227 1.6351 1.6414 1.6476 1.6537 1.6597 1.6656 1.6714 1.6771 1.6822 1.6936 1.6936 1.6990 1.7248 1.7492 1.7723 1.7943	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1231.7 1242.3 1247.6 1252.8 1252.8 1258.0 1263.2 1268.3 1273.5 1278.6 1304.0 1329.2 1354.3 1379.3	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.60 4.67 4.73 4.73 4.79 4.85 4.91 4.97 5.03 5.09 5.38 5.67 5.95 6.23	110 [334.8] [.5965 [.6002 [.6073 [.6142 [.6209 [.6275 [.6339 [.6403 [.6403 [.6526 [.6586 [.6586 [.6586 [.6586 [.6586 [.6645] [.6703 [.6703 [.6760 [.6816] [.6979 [.7237 [.7481] [.7712 [.7933]	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1242.2 1247.4 1252.7 1263.1 1268.2 1273.4 1278.5 1303.9 1329.1 1354.2 1379.2	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.44 4.50 4.56 4.62 4.68 4.74 4.80 4.92 4.98 5.04 5.33 5.62 5.90 6.18	111 [335:5] [.5990 [.6060 [.6129 [.6197 [.6263] [.6327 [.6391 [.6327] [.6331 [.6514 [.6574 [.6574 [.6574] [.6633] [.6691 [.6748] [.6860 [.6914] [.7226] [.7226] [.7470 [.7702] [.7923]	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1 1220.6 1225.7 1242.0 1247.3 1252.5 1257.7 1262.9 1268.1 1273.3 1278.4 1303.8 1329.0 1354.1 1379.2	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52 4.58 4.64 4.70 4.76 4.76 4.82 4.88 4.94 4.99 5.28 5.56 5.84 6.12	112 [336.1] I.5950 I.5977 I.6048 I.6117 I.6185 I.6252 I.6316 I.6379 I.6422 I.6503 I.6563 I.6563 I.6680 I.6737 I.6794 I.6849 I.6903 I.6957 I.7216 I.7460 I.7912	1190.3 1192.5 1192.5 1198.2 1203.8 1209.4 1214.9 1225.8 1231.2 1236.5 1241.9 1247.1 1252.4 1252.4 1262.8 1268.0 1273.1 1278.3 1303.7 1329.0 1354.1 1379.1
Sat. 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 500 500 650	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77 4.83 4.89 4.96 5.02 5.08 5.14 5.14 5.72 6.01	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6221 1.6287 1.6351 1.6414 1.6476 1.6537 1.6597 1.6656 1.6714 1.6771 1.6827 1.6827 1.6826 1.6936 1.6936 1.7248	1189.8 1193.2 1198.8 1204.4 1215.5 1220.9 1225.3 1231.7 1237.0 1242.3 1247.6 1252.8 1258.0 1268.3 1273.5 1278.6 1304.0 1329.2 1354.3	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.42 4.48 4.54 4.60 4.67 4.73 4.73 4.79 4.85 4.91 4.97 5.09 5.38 5.67 5.95	110 [334.8] [.5965 [.6002 [.6073 [.6209 [.6275] [.6209 [.6225] [.6339 [.6403 [.6465] [.6586 [.6586 [.6586 [.6586] [.6703] [.6703] [.6760 [.6816] [.6876] [.6979] [.7237] [.7481] [.7712]	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1242.2 1247.4 1252.7 1257.9 1263.1 1268.2 1273.4 1278.5 1303.9 1329.1 1354.2	$\begin{array}{c} 4.02\\ 4.05\\ 4.12\\ 4.18\\ 4.25\\ 4.31\\ 4.37\\ 4.37\\ 4.37\\ 4.50\\ 4.56\\ 4.62\\ 4.68\\ 4.92\\ 4.98\\ 5.04\\ 5.04\\ 5.04\\ 5.04\\ 5.02\\ 5.90\end{array}$	111 [335:5] [.5957 [.5990 [.6060 [.6129 [.6167 [.6263] [.6327 [.6331 [.6327 [.63514 [.6574 [.6574 [.6574 [.6574 [.6685] [.6680 [.6914 [.6968 [.7226 [.7470 [.7702]	1190.1 1192.7 1198.4 1204.0 1209.6 1215.1 1220.6 1225.0 1231.4 1236.7 1242.0 1247.3 1252.5 1257.7 1262.9 1268.1 1273.3 1278.4 1303.8 1329.0 1354.1	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52 4.58 4.64 4.70 4.76 4.76 4.82 4.88 4.94 4.99 5.28 5.56 5.84	112 [336.1] I.5950 I.5977 I.6048 I.6177 I.6185 I.6252 I.6316 I.6379 I.6442 I.6503 I.6563 I.6563 I.6563 I.6680 I.6737 I.6794 I.6849 I.6903 I.6957 I.7216 I.7460 I.7691	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1236.5 1241.9 1247.1 1252.4 1257.6 1262.8 1268.0 1273.1 1278.3 1303.7 1329.0 1354.1
Sat. 340 350 360 370 380 390 400 420 430 440 450 460 470 480 500 550 650 700 850 850	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.46 4.52 4.59 4.65 4.71 4.77 4.83 4.89 4.96 5.02 5.08 5.14 5.43 5.72 6.01 6.29 6.57	109 [334.1] 1.5973 1.6014 1.6251 1.6251 1.6257 1.6351 1.6414 1.6476 1.6537 1.6557 1.6557 1.6557 1.6557 1.6557 1.6557 1.6557 1.6527 1.6827 1.6827 1.6936 1.6936 1.7248 1.7723 1.7723 1.7943 1.8155 1.83559	1189.8 1193.2 1198.8 1200.0 1215.5 1220.9 1226.3 1231.7 1237.0 1242.3 1247.6 1252.8 1252.8 1258.0 1263.3 1273.5 1278.6 1304.0 1329.2 1354.3 1379.3 1404.4	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.60 4.67 4.73 4.79 4.85 4.97 5.03 5.09 5.38 5.67 5.95 6.23 6.51	110 [334.8] [.5965 [.6002 [.6073 [.6073 [.6205 [.6205 [.6239] [.6275 [.6339] [.6463 [.6526 [.6586 [.6586 [.6586 [.6586 [.6576] [.6703] [.6703] [.6703 [.6760] [.6816 [.6816] [.6925] [.6979] [.7237 [.7712] [.7712] [.7713] [.8145] [.8349] [.8345] [.8345]	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2 1247.4 1252.7 1257.9 1263.1 1268.2 1273.4 1278.5 1303.9 1329.1 1354.2 1379.2 1404.3	$\begin{array}{c} 4.02\\ 4.05\\ 4.12\\ 4.18\\ 4.25\\ 4.31\\ 4.37\\ 4.31\\ 4.37\\ 4.44\\ 4.50\\ 4.56\\ 4.62\\ 4.68\\ 4.62\\ 4.68\\ 4.92\\ 4.98\\ 5.04\\ 5.33\\ 5.62\\ 5.90\\ 6.18\\ 6.45\\ 5.73\\ 7.00\\ \end{array}$	111 [335:5] I.5990 I.6060 I.6129 I.6197 I.6263 I.6327 I.6391 I.6453 I.6514 I.6574 I.6574 I.6633 I.6691 I.6748 I.6805 I.6806 I.6914 I.6968 I.7226 I.7470 I.7702 I.7702 I.7702 I.7923 I.8135	II90.I II92.7 II98.4 I209.6 I215.I I220.6 I225.6 I247.3 I252.5 I257.7 I262.9 I268.1 I273.3 I278.4 I303.8 I329.0 I354.I I379.2 I404.3	3.99 4.01 4.08 4.14 4.21 4.27 4.33 4.39 4.46 4.52 4.58 4.64 4.70 4.76 4.76 4.82 4.88 4.94 4.99 5.28 5.56 5.84 6.12 6.40	112 [336.1] [.5950 [.5977 [.6048 [.6177 [.6185 [.6252] [.6336 [.6379 [.6422] [.6503 [.6503 [.6503] [.6503 [.6503] [.6649 [.6903] [.6903] [.6903] [.6957 [.7216] [.7912] [.8125 [.8329] [.8256]	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1225.8 1236.5 1241.9 1247.1 1252.4 1257.6 1262.8 1268.0 1273.1 1278.3 1303.7 1329.0 1354.1 1379.1 1404.2 1429.5 1454.8
Sat. 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 500 500 650 700 800	4.13 4.20 4.26 4.33 4.39 4.46 4.52 4.59 4.65 4.71 4.77 4.83 4.89 4.96 5.02 5.08 5.14 5.43 5.72 6.01 6.29 6.57 6.85	109 [334.1] 1.5973 1.6014 1.6085 1.6154 1.6227 1.6351 1.6414 1.6476 1.6537 1.6597 1.6656 1.6714 1.6771 1.6827 1.6827 1.6826 1.6936 1.7248 1.7492 1.7723 1.7943 1.8155 1.8359	1189.8 1193.2 1198.8 1204.4 1210.0 1215.5 1220.9 1226.3 1231.7 1237.0 1242.3 1242.3 1247.6 1252.8 1258.0 1268.3 1273.5 1278.6 1304.0 1329.2 1354.3 1379.3 1404.4 1429.6	4.06 4.09 4.16 4.22 4.29 4.35 4.42 4.48 4.54 4.42 4.48 4.54 4.60 4.67 4.73 4.79 4.85 4.91 4.97 5.03 5.09 5.38 5.67 5.95 6.23 6.51 6.79	110 [334.8] 1.5965 1.6002 1.6073 1.6142 1.6209 1.6275 1.6339 1.6403 1.6465 1.6526 1.6586 1.6586 1.6586 1.6645 1.6703 1.6760 1.6816 1.6871 1.6925 1.6979 1.7237 1.7481 1.7712 1.7933 1.8145 1.8349	1190.0 1192.9 1198.6 1204.2 1209.8 1215.3 1220.7 1226.1 1231.5 1236.9 1242.2 1247.4 1252.7 1257.9 1263.1 1268.2 1273.4 1278.5 1303.9 1329.1 1354.2 1379.2 1404.3 1429.5	4.02 4.05 4.12 4.18 4.25 4.31 4.37 4.37 4.37 4.44 4.50 4.56 4.62 4.68 4.74 4.80 4.80 4.92 4.98 5.04 5.90 6.18 6.45 6.73	111 [335:5] I.5957 I.5990 I.6060 I.6129 I.6197 I.6263 I.6327 I.6331 I.6453 I.6514 I.6574 I.6574 I.6633 I.6514 I.6748 I.6805 I.6805 I.6806 I.6914 I.6968 I.7226 I.7470 I.7702 I.7702 I.7703 I.8135 I.8339	II90.I II92.7 II98.4 I204.0 I209.6 I215.I I220.6 I226.0 I231.4 I236.7 I242.0 I247.3 I252.5 I257.7 I262.9 I268.I I273.3 I278.4 I303.8 I329.0 I354.I I379.2 I404.3 I429.5	3.99 4.01 4.08 4.14 4.21 4.33 4.39 4.46 4.52 4.58 4.64 4.52 4.58 4.64 4.70 4.76 4.76 4.76 4.82 4.88 4.94 4.99 5.28 5.56 5.84 6.12 6.40 6.67	112 [336.1] I.5950 I.5977 I.6048 I.6177 I.6185 I.6252 I.6316 I.6379 I.6422 I.6503 I.6563 I.6563 I.6563 I.6680 I.6737 I.6794 I.6849 I.6957 I.7216 I.7460 I.7460 I.7691 I.7912 I.8125 I.8329	1190.3 1192.5 1198.2 1203.8 1209.4 1214.9 1220.4 1225.8 1236.5 1241.9 1247.1 1252.4 1257.6 1262.8 1268.0 1273.1 1278.3 1303.7 1329.0 1354.1 1379.1 1404.2 1429.5

Pres- sure		113 [336.8]			114 [337-4]			115 [338.1]	24	E.	116 [338.7]	
Temp °F.		s	i	₹	S	i	V	S	i	T	s	i
Sat.	3.95	1.5943	1190.4	3.92	1.5935	1190.6	3.89	1.5928	1190.7	3.86	1.5921	1190.8
340	3.98	1.5965	1192.2	3.94	1.5953	1192.0	3.90	1.5941	1191.8	3.87	1.5929	1191.6
350	4.04	1.6036	1197.9	4.00	1.6024	1197.7	3.97	1.6012	1197.5	3.93	1.6000	1197.3
360	4.10	1.6105	1203.6	4.07	1.6094 1.6162	1203.4	4.03	1.6082	1203.2 1208.8	3.99	1.6070 1.6138	1203.0 1208.6
370 380	4.17 4.23	1.6173	1209.2 1214.7	4.13 4.19	1.6228	1209.0 1214.5	4.09	1.6150 1.6217	1208.8	4.05 4.11	1.6205	1208.0
390	4.29	1.6305	1220.2	4.25	1.6293	1220.0	4.21	1.6282	1219.8	4.18	1.6270	1219.7
400	4.35	1.6368	1225.6	4.31	1.6357	1225.5	4.27	1.6346	1225.3	4.24	1.6334	1225.1
410	4.42	1.6431	1231.0	4.38	1.6419	1230.9	4.34	1.6408	1230.7	4.30	1.6397	1230.5
420 430	4.48 4.54	1.6492 1.6552	1236.4 1241.7	4.44 4.50	1.6481	1236.2 1241.6	4.40 4.46	1.6470 1.6530	1236.1 1241.4	4.36 4.42	1.6459	1235.9
440	4.60	1.6611	1247.0	4.56	1.6600	1246.9	4.52	1.6589	1246.7	4.47	1.6578	1246.6
450	4.66	1.6669	1252.3	4.62	1.6658	1252.1	4.57	1.6647	1252.0	4-53	1.6636	1251.9
460	4.72	1.6726	1257.5	4.67	1.6715	1257.4	4.63	1.6704	1257.2	4.59	1.6694	1257.1
470	4.77	1.6783	1262.7	4.73	1.6772	1262.6	4.69	1.6761	1262.4	4.65	1.6750	1262.3
480 490	4.83	1.6838 1.6893	1267.9 1273.0	4.79 4.85	1.6827	1267.8	4.75 4.80	1.6817	1267.6	4.70 4.76	1.6806	1267.5
500	4.95	1.6947	1278.2	4.91	1.6936	1278.1	4.86	1.6925	1278.0	4.82	1.6914	1277.9
550 600	5.23 5.51	1.7205 1.7449	1303.7 1328.9	5.19 5.47	1.7439	1303.6 1328.8	5.14 5.42	1.7184	1303.5 1328.8	5.10 5.37	I.7174 I.7419	1303.4 1328.7
650	5.79	1.7681	1354.0	5.74	1.7671	1354.0	5.69	1.7661	1353.9	5.64	1.7651	1353.8
700	6.07	1.7902	1379.1	6.01	1.7892	1379.0	5.96	1.7882	1379.0	5.91	1.7872	1378.9
750	6.34	1.8115	1404.2	6.28	1.8104	1404.2	6.23	1.8094	1404.1	6.17	1.8084	1404.1
800	6.61	1.8319	1429.4	6.55	1.8308	1429.4	6.49	1.8298	1429.4	6.44	1.8289	1429.3
850 900	6.88 7.14	1.8516 1.8707	1454.8 1480.3	6.82 7.08	1.8506	1454.8 1480.3	6.76 7.02	1.8496	1454.8	6.70 6.96	1.8487	1454.7 1480.2
900	1.14	1.0707	1400.3	1.00	1.0090	1400.3	1.02	1.0000	1400.3	0.90	1.00/0	1400.2
			1	1	1		·	1	1		1	
		117 [339-4]			118 [340.0]			119 [340.6]			120 [341-3]	
Sat.	3.83		1191.0	3.80		1191.1	3.77		1191.2	3.74		1191.4
Sat. 350	3.83 3.89	[339-4]	1191.0 1197.1	3.80 3.86	[340.0]	1191.1 1196.9	3.77 3.82	[340.6] 1.5900 1.5966	1191.2	3.74	[341-3] 1.5893	1191.4 1196.4
350 360	3.89 3.96	[339-4] 1.5914 1.5989 1.6059	1197.1 1202.8	3.86 3.92	[340.0] 1.5907 1.5977 1.6047	1196.9 1202.6	3.82 3.88	[340.6] 1.5900 1.5966 1.6036	1196.6 1202.3	3.79 3.85	[341.3] 1.5893 1.5955 1.6025	1191.4 1196.4 1202.1
350 360 370	3.89 3.96 4.02	[339-4] 1.5914 1.5989 1.6059 1.6127	1197.1 1202.8 1208.4	3.86 3.92 3.98	[340.0] 1.5907 1.5977 1.6047 1.6116	1196.9 1202.6 1208.2	3.82 3.88 3.95	[340.6] 1.5900 1.5966 1.6036 1.6105	1196.6 1202.3 1208.0	3.79 3.85 3.91	[341.3] 1.5893 1.5955 1.6025 1.6094	1191.4 1196.4 1202.1 1207.8
350 360 370 380	3.89 3.96 4.02 4.08	[339-4] 1.5914 1.5989 1.6059 1.6127 1.6194	1197.1 1202.8 1208.4 1214.0	3.86 3.92 3.98 4.04	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183	1196.9 1202.6 1208.2 1213.8	3.82 3.88 3.95 4.01	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172	1196.6 1202.3 1208.0 1213.6	3.79 3.85 3.91 3.97	[341.3] 1.5893 1.5955 1.6025 1.6094 1.6161	1191.4 1196.4 1202.1 1207.8 1213.4
350 360 370 380 390	3.89 3.96 4.02 4.08 4.14	[339-4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259	1197.1 1202.8 1208.4 1214.0 1219.5	3.86 3.92 3.98 4.04 4.10	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248	1196.9 1202.6 1208.2 1213.8 1219.3	3.82 3.88 3.95 4.01 4.07	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237	1196.6 1202.3 1208.0 1213.6 1219.1	3.79 3.85 3.91	[341-3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226	1191.4 1196.4 1202.1 1207.8
350 360 370 380 390 400	3.89 3.96 4.02 4.08 4.14 4.20	[339-4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0	3.86 3.92 3.98 4.04 4.10 4.16	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6312	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8	3.82 3.88 3.95 4.01 4.07 4.12	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6	3.79 3.85 3.91 3.97 4.03 4.09	[341-3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4
350 360 370 380 390 400 410	3.89 3.96 4.02 4.08 4.14 4.20 4.26	[339-4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323 1.6386	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4	3.86 3.92 3.98 4.04 4.10 4.16 4.22	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6312 1.6375	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2	3.82 3.88 3.95 4.01 4.07 4.12 4.18	[340.6] 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0	3.79 3.85 3.91 3.97 4.03 4.09 4.15	[341-3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9
350 360 370 380 390 400 410 420	3.89 3.96 4.02 4.08 4.14 4.20	[339-4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0	3.86 3.92 3.98 4.04 4.10 4.16	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6312 1.6375 1.6437	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6	3.79 3.85 3.91 3.97 4.03 4.09	[341-3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3
350 360 370 380 390 400 410 420 430 440	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323 1.6386 1.6448 1.6508 1.6567	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1225.0 1230.4 1235.8 1241.1 1246.4	3.86 3.92 3.98 4.04 4.10 4.10 4.16 4.22 4.28 4.34 4.40	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6312 1.6375 1.6437 1.6497 1.6556	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6486 1.6546	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1240.8 1246.1	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.20 4.32	[341-3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6415	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9
350 360 370 380 390 400 410 420 430 440 450	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323 1.6386 1.6448 1.6508 1.6567 1.6626	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6375 1.6437 1.6497 1.6556 1.6615	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.41	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364 1.6486 1.6486 1.6546 1.6605	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38	[341-3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6476 1.6536 1.6594	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3
350 360 370 380 390 400 410 420 430 440 450 460	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6124 1.6259 1.6323 1.6386 1.6588 1.6567 1.6626 1.6626 1.6623	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51	[340.0] 1.5907 1.5977 1.6047 1.6186 1.6248 1.6312 1.6375 1.6497 1.6556 1.6615 1.6672	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1251.6	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.41 4.47	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6486 1.6486 1.6546 1.6605 1.6605	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1235.4 1240.8 1246.1 1251.4 1251.4 1256.7	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43	[341.3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6475 1.6476 1.6536 1.6594 1.6652	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6
350 360 370 380 390 400 410 420 430 440 450 460 470	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.43	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323 1.6386 1.6588 1.6568 1.6568 1.6568 1.6648 1.6740	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.57	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6375 1.6437 1.6437 1.6556 1.6655 1.6652 1.6729	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1255.8 1252.1	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.41 4.47 4.53	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6486 1.6486 1.6546 1.6605 1.6605 1.6602 1.6719	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4 1251.4 1251.9	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.49	[341.3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6476 1.6476 1.6536 1.65594 1.65594	1191.4 1196.4 1202.1 1207.8 1213.4 1213.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1251.3
350 360 370 380 390 400 410 420 430 440 450 460 470 480	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.43 4.49 4.55 4.61	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323 1.6386 1.6448 1.6507 1.6626 1.6626 1.6626 1.6740 1.6796	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.57 4.62	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6375 1.6437 1.6556 1.6615 1.6615 1.6672 1.6729 1.6729 1.6785	1196.9 1202.6 1208.2 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1246.3 1246.3 1251.6 1256.8 1262.1 1267.3	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.30 4.36 4.41 4.47 4.53 4.58	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6364 1.6426 1.6426 1.6546 1.6546 1.6665 1.6665 1.6719 1.6775	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4 1256.7 1261.9 1267.1	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.43 4.43	[341-3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6415 1.6475 1.6594 1.6594 1.6709 1.6709	1191.4 1196.4 1202.1 1207.8 1213.4 1228.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1251.8 1256.8 1267.0
350 360 370 380 390 400 410 420 430 440 450 460 470 480 490	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.43 4.49 4.55 4.61 4.66 4.72	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6326 1.6326 1.6488 1.6588 1.6567 1.6626 1.6683 1.6740 1.6796 1.6850	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1272.6	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.57 4.62 4.68	[340.0] 1.5907 1.5977 1.6047 1.616 1.6183 1.6248 1.6312 1.6375 1.6497 1.6497 1.6556 1.6655 1.6672 1.6729 1.6785 1.6840	1196.9 12026 1208.2 1213.8 1219.3 1224.8 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1 1267.3 1272.5	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.41 4.47 4.53 4.58 4.64	[340.6] 1.5900 1.5966 1.6035 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6426 1.64546 1.6655 1.6605 1.6605 1.6675 1.6830	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1235.4 1240.8 1246.1 1251.4 1256.7 1267.1 1272.3	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.49 4.54 4.60	[341:3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6476 1.6476 1.6536 1.6594 1.6652 1.6709 1.6765 1.6820	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2
350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.43 4.43 4.45 4.66 4.72 4.77	[339.4] 1.5914 1.5959 1.6059 1.6127 1.6124 1.6259 1.6323 1.6328 1.6328 1.6568 1.6568 1.6567 1.6626 1.6683 1.6740 1.6796 1.6850 1.6904	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1272.6	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.57 4.62 4.68 4.73	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6133 1.6248 1.6312 1.6375 1.6437 1.6497 1.6556 1.6655 1.6672 1.6729 1.6785 1.6840 1.6894	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1 1267.3 1272.5	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.41 4.47 4.53 4.58 4.64 4.69	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6105 1.6237 1.6301 1.6364 1.6426 1.6426 1.6486 1.6486 1.6655 1.6652 1.6675 1.6830 1.6884	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1235.4 1240.8 1246.1 1251.4 1256.7 1261.9 1267.1 1272.3	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.32 4.38 4.43 4.49 4.54 4.60 4.65	[341-3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6476 1.6476 1.6476 1.6536 1.6594 1.6652 1.6709 1.6765 1.6820 1.6874	II9I.4 I196.4 1202.1 1207.8 1213.4 1213.4 1224.4 1225.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4
350 360 370 380 390 400 410 420 430 440 450 460 470 480 490	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.43 4.49 4.55 4.61 4.66 4.72	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6326 1.6326 1.6488 1.6588 1.6567 1.6626 1.6683 1.6740 1.6796 1.6850	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1272.6	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.57 4.62 4.68	[340.0] 1.5907 1.5977 1.6047 1.616 1.6183 1.6248 1.6312 1.6375 1.6497 1.6497 1.6556 1.6655 1.6672 1.6729 1.6785 1.6840	1196.9 12026 1208.2 1213.8 1219.3 1224.8 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1 1267.3 1272.5	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.41 4.47 4.53 4.58 4.64	[340.6] 1.5900 1.5966 1.6035 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6426 1.64546 1.6655 1.6605 1.6605 1.6675 1.6830	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4 1256.7 1261.9 1267.1 1272.3 1277.5 1282.7	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.49 4.54 4.60	[341:3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6476 1.6476 1.6536 1.6594 1.6652 1.6709 1.6765 1.6820	II9I.4 I196.4 1207.8 1213.4 1213.4 1224.4 1229.9 1235.3 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.6
350 360 370 380 390 400 410 420 430 440 450 460 470 460 470 460 470 450 500 510 520 530	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.43 4.49 4.55 4.61 4.66 4.72 4.77 4.83 4.89 4.94	[339.4] 1.5914 1.5959 1.6059 1.6127 1.6194 1.6323 1.6326 1.6326 1.6488 1.6508 1.6567 1.6626 1.6683 1.6740 1.6796 1.6850 1.6904 1.6907 1.7001	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0 1267.4 1277.7 1282.9 1267.4 1277.7 1282.9 1288.9 1288.0 1293.1	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.57 4.62 4.68 4.73 4.73 4.79 4.84	[340.0] 1.5907 1.5977 1.6047 1.616 1.6183 1.6248 1.6312 1.6375 1.6437 1.6497 1.6556 1.6672 1.6729 1.6729 1.6785 1.6894 1.6894 1.6894 1.6999 1.7051	1196.9 12026 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1251.6 1256.8 1267.3 1277.6 1282.8 1277.6 1282.8 1287.9 1293.0	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.41 4.47 4.53 4.64 4.69 4.75 4.86	[340.6] 1.5900 1.5966 1.6036 1.6172 1.6237 1.6364 1.6426 1.6426 1.6426 1.6486 1.6546 1.6605 1.6605 1.6675 1.6884 1.6884 1.6937 1.6989 1.7041	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1235.4 1240.8 1246.1 1251.4 1256.7 1267.1 1277.3 1277.5 1287.8 1287.8 1292.9	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.49 4.54 4.65 4.65 4.71 4.76 4.82	[341:3] 1.5893 1.5955 1.6025 1.6025 1.6024 1.6161 1.6226 1.6291 1.6354 1.6475 1.6476 1.6536 1.6594 1.6652 1.6709 1.6705 1.6820 1.6874 1.6927 1.6980 1.7032	1191.4 1196.4 1207.8 1213.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.7 1282.7 1292.8
350 360 370 380 390 410 420 430 440 450 450 450 450 500 510 520 530 540	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.61 4.66 4.72 4.77 4.83 4.89	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323 1.6386 1.6386 1.6567 1.6626 1.6663 1.6796 1.6796 1.6850 1.6957 1.7009	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1267.2 1267.4 1272.6 1277.7 1282.9 1288.0	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.45 4.51 4.62 4.68 4.73 4.79 4.84	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6375 1.6437 1.6437 1.6556 1.6655 1.6672 1.6729 1.6785 1.6840 1.6894 1.6947 1.6999	1196.9 1202.6 1208.2 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1 1267.3 1272.5 1277.6 1282.8 1287.9	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.36 4.41 4.47 4.58 4.64 4.69 4.75 4.80	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6546 1.6546 1.6546 1.6665 1.66755 1.6830 1.6884 1.6937 1.6989	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4 1251.4 1261.9 1267.1 1267.3 1277.5 1282.7 1287.8	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.43 4.49 4.54 4.60 4.65 4.71 4.76	[341-3] I.5893 I.5955 I.6025 I.6094 I.6161 I.6226 I.6291 I.6354 I.6415 I.6476 I.6536 I.6594 I.6594 I.6709 I.6709 I.6705 I.6820 I.6874 I.6927 I.6980	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.6 1287.7
350 360 370 380 390 400 420 430 430 440 450 460 460 460 460 450 500 510 520 530 540 550	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.61 4.66 4.72 4.77 4.83 4.89 4.94 5.00 5.05	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323 1.6386 1.6488 1.6567 1.6626 1.6683 1.6796 1.6796 1.6850 1.6904 1.6957 1.7009 1.7061 1.7113 1.7164	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1267.2 1267.4 1272.6 1277.7 1282.9 1288.0 1293.1 1298.2 1303.3	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.40 4.45 4.51 4.62 4.68 4.73 4.79 4.84 4.90 4.95 5.01	[340.0] 1.5907 1.5977 1.6047 1.616 1.6133 1.6248 1.6375 1.6437 1.6437 1.6556 1.6615 1.6672 1.6729 1.6729 1.6785 1.6840 1.6894 1.6999 1.7051 1.7103 1.7154	1196.9 1202.6 1208.2 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1 1262.1 1267.3 1272.5 1277.6 1282.8 1287.9 1293.0 1298.1 1303.2	3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.36 4.41 4.47 4.58 4.64 4.69 4.75 4.80 4.86 4.91 4.97	[340.6] I.5900 I.5966 I.6036 I.6105 I.6172 I.6237 I.6301 I.6364 I.6426 I.6426 I.6426 I.6605 I.6719 I.6775 I.6830 I.6884 I.6937 I.6989 I.7041 I.7093 I.7144	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4 1251.4 1251.4 1267.7 1261.9 1267.1 1272.3 1277.5 1282.7 1287.8 1292.9 1298.0 1303.1	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.49 4.54 4.60 4.65 4.71 4.76 4.82 4.87 4.92	[341-3] I.5893 I.5955 I.6025 I.6094 I.6161 I.6226 I.6291 I.6354 I.6476 I.6476 I.6594 I.6594 I.6594 I.6594 I.6675 I.6874 I.6927 I.6980 I.7032 I.7033 I.7134	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.6 1287.7 1292.8 1297.9 1303.0
350 360 370 380 390 400 410 420 430 440 450 460 470 460 470 460 470 450 500 510 520 530 540 600	3.89 3.90 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.61 4.66 4.72 4.77 4.83 4.89 4.94 5.00 5.05 5.32	[339.4] 1.5914 1.5959 1.6059 1.6127 1.6194 1.6323 1.6326 1.6488 1.6567 1.6626 1.6683 1.6740 1.6796 1.6850 1.6904 1.6957 1.7061 1.7113 1.7164 1.7409	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1267.4 1272.6 1267.4 1272.6 1267.7 1282.9 1282.9 1282.9 1293.1 1298.2 1303.3 1328.6	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.40 4.45 4.51 4.57 4.68 4.73 4.79 4.84 4.90 4.95 5.01 5.28	[340.0] 1.5907 1.5977 1.6047 1.616 1.6183 1.6248 1.6312 1.6375 1.6437 1.6497 1.6556 1.6672 1.6729 1.6729 1.6785 1.6894 1.6894 1.6894 1.6894 1.7051 1.7103 1.7154 1.7399	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1251.6 1251.6 1267.3 1277.6 1282.8 1287.9 1293.0 1298.1 1303.2 1328.5	$\begin{array}{c} 3.82\\ 3.88\\ 3.95\\ 4.01\\ 4.07\\ 4.12\\ 4.18\\ 4.24\\ 4.30\\ 4.36\\ 4.36\\ 4.41\\ 4.47\\ 4.53\\ 4.58\\ 4.64\\ 4.69\\ 4.75\\ 4.86\\ 4.91\\ 4.97\\ 5.23\\ \end{array}$	[340.6] 1.5900 1.5966 1.6036 1.6172 1.6237 1.6364 1.6426 1.6426 1.6426 1.6486 1.6486 1.6546 1.6605 1.6605 1.6605 1.6605 1.6605 1.6884 1.6937 1.6989 1.7041 1.7093 1.7144 1.7389	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4 1251.4 1251.4 1251.4 1267.1 1267.1 1272.3 1287.7 1282.7 1282.7 1282.7 1282.7 1282.7 1282.8 1292.9 1298.0 1303.1 1328.5	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.43 4.49 4.54 4.60 4.65 4.71 4.76 4.82 4.87 4.92 5.19	[341:3] I.5893 I.5955 I.6025 I.6025 I.6024 I.6216 I.6226 I.6291 I.6354 I.6475 I.6476 I.6536 I.6594 I.6652 I.6709 I.6765 I.6827 I.6827 I.6827 I.6985 I.6827 I.6985 I.6987 I.7032 I.7033 I.7134 I.7379	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1267.0 1272.2 1277.4 1282.6 1287.7 1292.8 1297.9 1303.0 1328.4
350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 510 520 530 540 550 600 650	3.89 3.90 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.61 4.66 4.72 4.77 4.83 4.83 4.94 5.00 5.05 5.32 5.59	[339.4] 1.5914 1.5914 1.5959 1.6059 1.6127 1.6127 1.6259 1.6323 1.6386 1.6386 1.6567 1.6626 1.6626 1.6653 1.6740 1.6957 1.7009 1.7064 1.7164 1.7164	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1272.6 1277.7 1282.9 1282.0 1293.1 1298.2 1303.3 1328.6 1353.8	3.86 3.92 3.92 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.57 4.62 4.68 4.73 4.79 4.84 4.90 4.95 5.01 5.28 5.54	[340.0] I.5907 I.5977 I.6047 I.616 I.6183 I.6248 I.6312 I.6375 I.6437 I.6497 I.6556 I.6655 I.66572 I.6729 I.6785 I.6840 I.6894 I.6947 I.6999 I.7051 I.7154 I.7339	1196.9 12026 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1256.8 1267.3 1272.5 1277.6 1282.8 1287.9 1293.0 1298.1 1303.2 1328.5 1328.5 1353.7	$\begin{array}{c} 3.82\\ 3.88\\ 3.95\\ 4.01\\ 4.07\\ 4.12\\ 4.18\\ 4.24\\ 4.30\\ 4.36\\ 4.41\\ 4.47\\ 4.53\\ 4.58\\ 4.64\\ 4.69\\ 4.75\\ 4.86\\ 4.91\\ 4.91\\ 4.97\\ 5.23\\ 5.50\\ \end{array}$	[340.6] 1.5900 1.5966 1.6035 1.6172 1.6237 1.6301 1.6364 1.6426 1.6426 1.64546 1.6655 1.6652 1.6719 1.6775 1.6830 1.6884 1.6937 1.6830 1.7041 1.7093 1.7144 1.7389 1.7022	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1235.4 1240.8 1240.8 1246.1 1251.4 1256.7 1267.1 1272.3 1277.5 1287.8 1292.9 1298.0 1303.1 1328.5 1353.7	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.43 4.43 4.54 4.65 4.71 4.65 4.71 4.65 4.82 4.87 4.92 5.19 5.45	[341.3] I.5893 I.5955 I.6025 I.6025 I.6094 I.6161 I.62291 I.62291 I.6354 I.6476 I.6476 I.6536 I.6594 I.6652 I.6820 I.6874 I.6927 I.69820 I.7032 I.7033 I.7134 I.7379	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.6 1287.7 1292.8 1297.9 1303.0 1328.4 1353.6
350 360 370 380 390 400 410 420 430 440 450 460 470 460 470 460 470 450 500 510 520 530 540 600	3.89 3.90 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.61 4.66 4.72 4.77 4.83 4.89 4.94 5.00 5.05 5.32	[339.4] 1.5914 1.5959 1.6059 1.6127 1.6194 1.6323 1.6326 1.6488 1.6567 1.6626 1.6683 1.6740 1.6796 1.6850 1.6904 1.6957 1.7061 1.7113 1.7164 1.7409	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1277.7 1282.9 1288.0 1293.1 1298.2 1303.3 1328.6 1353.8 1378.9	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.40 4.45 4.51 4.57 4.68 4.73 4.79 4.84 4.90 4.95 5.01 5.28	[340.0] 1.5907 1.5977 1.6047 1.616 1.6183 1.6248 1.6312 1.6375 1.6437 1.6497 1.6556 1.6672 1.6729 1.6729 1.6785 1.6894 1.6894 1.6894 1.6894 1.7051 1.7103 1.7154 1.7399	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1251.6 1251.6 1267.3 1277.6 1282.8 1287.9 1293.0 1298.1 1303.2 1328.5	$\begin{array}{c} 3.82\\ 3.88\\ 3.95\\ 4.01\\ 4.07\\ 4.12\\ 4.18\\ 4.24\\ 4.30\\ 4.36\\ 4.36\\ 4.41\\ 4.47\\ 4.53\\ 4.58\\ 4.64\\ 4.69\\ 4.75\\ 4.86\\ 4.91\\ 4.97\\ 5.23\\ \end{array}$	[340.6] 1.5900 1.5966 1.6036 1.6172 1.6237 1.6364 1.6426 1.6426 1.6426 1.6486 1.6486 1.6546 1.6605 1.6605 1.6605 1.6605 1.6605 1.6884 1.6937 1.6989 1.7041 1.7093 1.7144 1.7389	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1235.4 1240.8 1246.1 1251.4 1256.7 1267.1 1272.3 1277.5 1287.8 1292.9 1298.0 1303.1 1328.5 1353.7	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.43 4.49 4.54 4.60 4.65 4.71 4.76 4.82 4.87 4.92 5.19	[341:3] I.5893 I.5955 I.6025 I.6025 I.6024 I.6216 I.6226 I.6291 I.6252 I.6476 I.6476 I.6536 I.6594 I.6652 I.6709 I.6765 I.6827 I.6827 I.6827 I.6985 I.6827 I.6985 I.6987 I.7032 I.7033 I.7134 I.7379	1191.4 1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1267.0 1272.2 1277.4 1282.6 1287.7 1292.8 1297.9 1303.0 1328.4

Pres- sure		121 [341.9]			122 [342.5]			123 [343.1]			124 [343-7]	
Temp ° F.	V		i	v	8	i	v	8	i	v	5	i
Sat.	3.71	1.5886	1191.5	3.68	1.5879	1191.6	3.65	1.5872	1191.8	3.62	1.5865	1191.9
350	3.76	1.5943	1196.2	3.72	1.5932	1196.0	3.69	1.5921	1195.7	3.66	1.5910	1195.5
360	3.82	1.6013	1201.9	3.78	1.6002	1201.7	3.75	1.5991	1201.5	3.72	1.5980	1201.3
370	3.88	1.6082	1207.6	3.84	1.6071	1207.4	3.81	1.6060	1207.2	3.78	1.6049	1207.0
380	3.94	1.6150	1213.2	3.90	1.6139	1213.0	3.87	1.6128	1212.8	3.84	1.6117	1212.6
390	4.00	1.6216	1218.8	3.96	1.6205	1218.6	3.93	1.6194	1218.4	3.89	1.6183	1218.2
400	4.05	1.6280	1224.3	4.02	1.6269	1224.1	3.98	1.6258	1223.9	3.95	1.6248	1223.7
410	4.11	1.6343	1229.7	4.08	1.6332	1229.6	4.04	1.6322	1229.4	4.01	1.6311	1229.2
420	4.17	1.6405 1.6466	1235.1 1240.5	4.13	1.6394	1235.0 1240.4	4.10	1.6384	1234.8 1240.2	4.06	1.6373	1234.6
430 440	4.23 4.28	1.6525	1245.9	4.19 4.25	1.6515	1240.4	4.15 4.21	1.6505	1245.6	4.12 4.17	1.6434	1240.0 1245.4
	4.20			4.23						4.1/		1243.4
450	4.34	1.6584	1251.2	4.30	1.6574	1251.0	4.26	1.6563		4.23	1.6553	1250.7
460	4.39	1.6642	1256.4	4.36	1.6631 1.6688	1256.3	4.32	1.6621	1256.2	4.28	1.6611	1256.0
470 480	4.45	1.6699	1261.7	4.41 4.46	1.6744	1261.6 1266.8	4.37	1.6678	1261.4	4.34	1.6668 1.6724	1261.3 1266.6
490	4.50 4.56	1.6809	1200.9	4.52	1.6799	1200.8	4.43 4.48	1.6789	1200.7	4.39 4.44	1.6779	1200.0
		1.00		4.3*			4.40			4.44		12/1.0
500	4.61	1.6864	1277.3	4.57	1.6854	1277.2	4.54	1.6844	1277.1	4.50	1.6834	1277.0
510	4.67	1.6918	1282.5	4.63	1.6908	1282.4	4.59	1.6898	1282.2	4.55	1.6988	1282.1
520	4.72	1.6971	1287.6	4.68	1.6961	1287.5	4.64	1.6951	1287.4	4.60 4.66	1.6941	1287.3
530	4.77	I.7023 I.7074	1292.7	4.73	1.7013	1292.6	4.69	1.7003	1292.0	4.00	1.6993	1292.5 1297.6
540		1.7074	1297.9	4.79	1.7004	1297.0	4.75	1.7054	1297.7	4.71	1.7044	1297.0
550	4.88	1.7124	1303.0	4.84	1.7114	1302.9	4.80	1.7105	1302.8	4.76	1.7095	1302.7
600	5.15	1.7370	1328.3	5.10	1.7360	1328.3	5.06	1.7350	1328.2	5.02	I.734I	1328.1
650 700	5.41 5.66	1.7602	1353.5	5.36	1.7593 1.7815	1353.5	5.32	1.7583	1353.4	5.27	1.7574	1353.3
750	5.92	1.7024	1378.7	5.62 5.87	1.8027	1378.6 1403.8	5.57 5.82	1.7805	1378.6 1403.8	5.52 5.77	1.7796	1378.5
130	3.92	1.0037	1403.9	3.07	1.0027	1403.0	3.02	1.0010	1403.0	3.11	1.0009	1403.7
		125 [344:4]			126 [345.0]			127 [345.6]			128 [346.2]	
Sat.	3.59	1.5858	1192.0	3.57	1.5852	1192.1	3.54	1.5845	1192.3	3.51	1.5838	1192.4
350	3.63	1.5899	1195.3	3.60	1.5888	1195.1	.3.57	1.5877	1194.9	3.54	1.5866	1194.6
360	3.69	1.5970	1201.1	3.66	1.5959	1200.9	3.62	1.5948	1200.7	3.59	1.5937	1200.4
370	3.75	1.6039	1206.8	3.71	1.6028	1206.6	3.68	1.6017	1206.4	3.65	1.6007	1 206.2
380	3.80	1.6106	1212.4	3.77	1.6096	1212.2	3.74	1.6085	1212.0	3.71	1.6075	1211.9
390	3.86	1.6172	1218.0	3.83	1.6162	1217.8	3.80	1.6151	1217.6	3.77	1.6141	1217.5
400	3.92	1.6237	1223.6	3.88	1.6227	1223.4	3.85	1.6216	1223.2	3.82	1.6206	1223.0
410	3.97	1.6301	1229.1	3.94	1.6291	1228.9	3.91	1.6281	1228.7	3.88	1.6271	1228.5
420	4.03	1.6363	1234.5	4.00	1.6353	1234.3	3.96	1.6343	1234.2	3.93	1.6333	1234.0
430	4.08	1.6424	1239.9	4.05	1.6414	1239.7	4.02	1.6404	1239.6	3.98	1.6394	1239.4
440	4.14	1.6484	1245.3	4.10	1.6474	1245.1	4.07	1.6464	1245.0	4.04	1.6454	1244.8
450	4.19	1.6543	1250.6	4.16	1.6533	1250.5	4.12	1.6523	1250.3	4.09	1.6513	1250.2
460	4.25	1.6601	1255.9	4.21	1.6591	1255.8	4.18	1.6581	1255.6	4.14	1.6572	1255.5
470	4.30	1.6658	1261.2	4.27	1.6648	1261.1	4.23	1.6639	1260.9	4.20	1.6629	1260.8
180	1 25	T 67TA	T266 4	1 22	1 6704	1266 2	1 28	T 660.5	1266 2	A 25	T 668r	1266 T

			4		+J	4.07		43	TT	
	1.6543	1250.6	4.16	1.6533	1250.5	4.12	1.6523	1250.3	4.09	1.6513
	1.6601	1255.9	4.21	1.6591	1255.8	4.18	1.6581	1255.6	4.14	1.6572
	1.6658	1261.2	4.27	1.6648	1261.1	4.23	1.6639	1260.9	4.20	1.6629
	1.6714	1266.4	4.32	1.6704	1266.3	4.28	1.6695	1266.2	4.25	1.6685
	1.6770	1271.7	4.37	1.6760	1271.5	4.34	1.6750	1271.4	4.30	1.6740
	1.6824	1276.9	4.42	1.6814	1276.7	4.39	1.6805	1276.6	4.35	1.6795
	1.6878	1282.0	4.48	1.6868	1281.9	4.44	1.6859	1281.8	4.40	1.6849
	1.6931	1287.2	4.53	1.6921	1287.1	4.49	1.6912	1287.0	4.46	1.6902
	1.6983	1292.4	4.58	1.6973	1292.3	4.54	1.6964	1292.2	4.51	1.6955
	1.7034	1297.5	4.63	1.7025	1297.4	4.59	1.7015	1297.3	4.56	1.7006
1										
	1.7085	1302.6	4.68	1.7076	1302.5	4.65	1.7066	1302.4	4.61	1.7057
	1.7332	1328.0	4.94	1.7322	1328.0	4.90	1.7312	1327.9	4.86	1.7303
	1.7565	1353.3	5.19	1.7555	1353.2	5.15	1.7546	1353.2	5.11	I.7537
	1.7787	1378.5	5.44	1.7778	1378.4	5.39	1.7769	1378.4	5.35	1.7760
l	1.8000	1403.7	5.68	1.7991	1403.7	5.64	1.7982	1403.6	5.59	1.7973
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1276.5

1281.7

1286.9

1292.1

1297.2

1302.3 1327.8

1353.1 1378.3 1403.6

Pres- sure		113 [336.8]			114 [337.4]			115 [338.1]		4	116 [338.7]	
Temp °F.	v	S	i	v	S	i	V	s	i	v	s	i
Sat.	3.95	1.5943	1190.4	3.92	1.5935	1190.6	3.89	1.5928	1190.7	3.86	1.5921	1190.8
340	3.98	1.5965	1192.2	3.94	1.5953	1192.0	3.90	1.5941	1191.8	3.87	1.5929	1191.6
350	4.04	1.6036	1197.9	4.00	1.6024	1197.7	3.97	1.6012	1197.5	3.93	1.6000	1197.3
360 370	4.10 4.17	1.6105 1.6173	1203.6 1209.2	4.07 4.13	1.6094 1.6162	1203.4 1209.0	4.03 4.09	1.6082 1.6150	1203.2 1208.8	.3.99 4.05	1.6070 1.6138	1203.0 1208.6
380	4.23	1.6240	1209.2	4.19	1.6228	1209.0	4.15	1.6217	1214.3	4.05	1.6205	1214.2
390	4.29	1.6305	1220.2	4.25	1.6293	1220.0	4.21	1.6282	1219.8	4.18	1.6270	1219.7
400	4.35	1.6368	1225.6	4.31	1.6357	1225.5	4.27	1.6346	1225.3	4.24	1.6334	1225.1
410 420	4.42 4.48	1.6431 1.6492	1231.0 1236.4	4.38 4.44	1.6419 1.6481	1230.9 1236.2	4.34 4.40	1.6408 1.6470	1230.7 1236.1	4.30 4.36	1.6397	1230.5 1235.9
430	4.40	1.6552	1230.4	4.44	1.6541	1230.2	4.46	1.6530	1230.1	4.42	1.6519	1235.9
440	4.60	1.6611	1247.0	4.56	1.6600	1246.9	4.52	1.6589	1246.7	4.47	1.6578	1246.6
450	4.66	1.6669	1252.3	4.62	1.6658	1252.1	4.57	1.6647	1252.0	4.53	1.6636	1251.9
460	4.72	1.6726	1257.5	4.67	1.6715	1257.4	4.63	1.6704	1257.2	4.59	1.6694	1257.1
470 480	4.77 4.83	1.6783 1.6838	1262.7 1267.9	4.73 4.79	1.6772 1.6827	1262.6 1267.8	4.69 4.75	1.6761 1.6817	1262.4 1267.6	4.65 4.70	1.6750	1262.3
490	4.89	1.6893	1207.9	4.85	1.6882	1272.9	4.75	1.6871	1272.8	4.76	1.6861	1207.5
500	4.95	1.6947	1278.2	4.91	1.6936	1278.1	4.86	1.6925	1278.0	4.82	1.6914	1277.9
550	5.23	1.7205	1303.7	5.19	1.7195	1303.6	5.14	1.7184	1303.5	5.10	1.7174	1303.4
600	5.51	1.7449	1328.9	5.47	1.7439	1328.8	5.42	1.7429	1328.8	5.37	1.7419	1328.7
650 700	5.79 6.07	1.7681	1354.0 1379.1	5.74 6.01	1.7671	1354.0 1379.0	5.69 5.96	1.7661 1.7882	1353.9 1379.0	5.64 5.91	1.7651	1353.8
750	6.34	1.8115	1404.2	6.28	1.8104	1404.2	6.23	1.8094	1404.1	6.17	1.8084	1404.1
800	6.61	1.8319	1404.2	6.55	1.8308	1404.2	6.49	1.8298	1404.1	6.44	1.8289	1404.1
850	6.88	1.8516	1454.8	6.82	1.8506	1454.8	6.76	1.8496	1454.8	6.70	1.8487	1454.7
900	7.14	1.8707	1480.3	7.08	1.8698	1480.3	7.02	1.8688	1480.3	6.96	1.8678	1480.2
		1		1							1	
		117 [339.4]			118 [340.0]			119 [340.6]			120 [341.3]	
Sat.	3.83		1191.0	3.80		1191.1	3.77		1191.2	3.74	120	1191.4
		[339.4] 1.5914		-	[340.0] 1.5907		3.77	[340.6] 1.5900			120 [341.3] 1.5893	
Sat. 350 360	3.83 3.89 3.96	[339.4]	1191.0 1197.1 1202.8	3.80 3.86 3.92	[340.0]	1191.1 1196.9 1202.6		[340.6]	1191.2 1196.6 1202.3	3.74 3.79 3.85	120 [341.3]	1191.4 1196.4 1202.1
350 360 370	3.89 3.96 4.02	[339.4] 1.5914 1.5989 1.6059 1.6127	1197.1 1202.8 1208.4	3.86 3.92 3.98	[340.0] 1.5907 1.5977 1.6047 1.6116	1196.9 1202.6 1208.2	3.77 3.82 3.88 3.95	[340.6] 1.5900 1.5966 1.6036 1.6105	1196.6 1202.3 1208.0	3.79 3.85 3.91	120 [341.3] 1.5893 1.5955 1.6025 1.6094	1196.4 1202.1 1207.8
350 360 370 380	3.89 3.96 4.02 4.08	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194	1197.1 1202.8 1208.4 1214.0	3.86 3.92 3.98 4.04	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183	1196.9 1202.6 1208.2 1213.8	3.77 3.82 3.88 3.95 4.01	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172	1196.6 1202.3 1208.0 1213.6	3.79 3.85 3.91 3.97	120 [341.3] 1.5893 1.5955 1.6025 1.6094 1.6161	1196.4 1202.1 1207.8 1213.4
350 360 370 380 390	3.89 3.96 4.02 4.08 4.14	[339-4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259	1197.1 1202.8 1208.4 1214.0 1219.5	3.86 3.92 3.98 4.04 4.10	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248	1196.9 1202.6 1208.2 1213.8 1219.3	3.77 3.82 3.88 3.95 4.01 4.07	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237	1196.6 1202.3 1208.0 1213.6 1219.1	3.79 3.85 3.91 3.97 4.03	120 [341.3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226	1196.4 1202.1 1207.8 1213.4 1218.9
350 360 370 380 390 400	3.89 3.96 4.02 4.08 4.14 4.20	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0	3.86 3.92 3.98 4.04 4.10 4.16	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6312	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8	3.77 3.82 3.88 3.95 4.01 4.07 4.12	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6	3.79 3.85 3.91 3.97 4.03 4.09	120 [341.3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4
350 360 370 380 390 400 410	3.89 3.96 4.02 4.08 4.14 4.20 4.20	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323 1.6386	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1225.0 1230.4	3.86 3.92 3.98 4.04 4.10 4.16 4.22	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6312 1.6375	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2	3.77 3.82 3.88 3.95 4.01 4.07 4.12 4.18	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0	3.79 3.85 3.91 3.97 4.03 4.09 4.15	120 [341.3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9
350 360 370 380 390 400	3.89 3.96 4.02 4.08 4.14 4.20	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0	3.86 3.92 3.98 4.04 4.10 4.16	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6312	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8	3.77 3.82 3.88 3.95 4.01 4.07 4.12	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6	3.79 3.85 3.91 3.97 4.03 4.09	120 [341.3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4
350 360 370 380 390 400 410 420 430 440	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6259 1.6323 1.6386 1.6448 1.6508 1.6567	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1225.0 1225.0 1225.8 1241.1 1246.4	3.86 3.92 3.98 4.04 4.10 4.10 4.16 4.22 4.28 4.34 4.40	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6312 1.6375 1.6437	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6	3.77 3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24	[340.6] I.5900 I.5966 I.6036 I.6105 I.6172 I.6237 I.6301 I.6364 I.6426 I.6486 I.6546	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32	120 [341.3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6475 1.6476 1.6536	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3
350 360 370 380 390 400 410 420 430 440 450	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.49	[339.4] I.5914 I.5989 I.6059 I.6127 I.6194 I.6259 I.6323 I.6386 I.6448 I.6508 I.6567 I.6626	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6375 1.6437 1.6497 1.6556 1.6615	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6	3.77 3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.41	$\begin{bmatrix} 340.6 \end{bmatrix}$ 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6486 1.6546 1.6546	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6476 1.6476 1.6536	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3
350 360 370 380 390 400 410 420 430 440 450 460	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55	[339.4] I.5914 I.5989 I.6059 I.6127 I.6194 I.6259 I.6323 I.6386 I.6438 I.6567 I.6626 I.6626 I.6683	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51	[340.0] 1.5907 1.5977 1.6047 1.616 1.6183 1.6248 1.6312 1.6375 1.6437 1.6497 1.6556 1.6615 1.6672	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1235.6 1241.0 1246.3 1251.6 1256.8	3.77 3.82 3.88 3.95 4.07 4.12 4.18 4.24 4.30 4.36 4.41 4.47	$\begin{bmatrix} 340.6 \\ 1.5900 \\ 1.5966 \\ 1.6036 \\ 1.6105 \\ 1.6105 \\ 1.6237 \\ 1.6301 \\ 1.6364 \\ 1.6426 \\ 1.6486 \\ 1.6546 \\ 1.6605 \\ 1.6605 \\ 1.6662 \end{bmatrix}$	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6024 1.6161 1.6226 1.6291 1.6476 1.6475 1.6476 1.6536 1.6594 1.6652	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6
350 360 370 380 390 400 410 420 430 440 450 460 470	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.61	[339.4] I.5914 I.5989 I.6059 I.6127 I.6194 I.6259 I.6323 I.6386 I.6548 I.6568 I.6567 I.6626 I.6663 I.6740	1197.1 1202.8 1208.4 1219.5 1225.0 1230.4 1241.1 1246.4 1251.7 1257.0 1262.2	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.57	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6133 1.6248 1.6375 1.6437 1.6437 1.6556 1.6655 1.6652 1.6729	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1	3.77 3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.30 4.36 4.41 4.47 4.53	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6364 1.6426 1.6426 1.6546 1.6546 1.6605 1.6709	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4 1251.4 1251.4	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.49	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6094 1.611 1.6226 1.6291 1.6354 1.6415 1.6455 1.6536 1.6554 1.6652 1.6709	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1251.3
350 360 370 380 390 400 410 420 430 440 450 460	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55	[339.4] I.5914 I.5989 I.6059 I.6127 I.6194 I.6259 I.6323 I.6386 I.6438 I.6567 I.6626 I.6626 I.6683	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51	[340.0] 1.5907 1.5977 1.6047 1.616 1.6183 1.6248 1.6312 1.6375 1.6437 1.6497 1.6556 1.6615 1.6672	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1235.6 1241.0 1246.3 1251.6 1256.8	3.77 3.82 3.88 3.95 4.07 4.12 4.18 4.24 4.30 4.36 4.41 4.47	$\begin{bmatrix} 340.6 \\ 1.5900 \\ 1.5966 \\ 1.6036 \\ 1.6105 \\ 1.6105 \\ 1.6237 \\ 1.6301 \\ 1.6364 \\ 1.6426 \\ 1.6486 \\ 1.6546 \\ 1.6605 \\ 1.6605 \\ 1.6662 \end{bmatrix}$	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6024 1.6161 1.6226 1.6291 1.6476 1.6475 1.6476 1.6536 1.6594 1.6652	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1246.0 1251.6 1251.6 1251.6 1261.8 1267.0
350 360 370 380 390 400 410 420 430 440 450 460 470 480	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.43 4.49 4.55 4.61 4.66 4.72	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6124 1.6259 1.6323 1.6386 1.6386 1.6567 1.6626 1.6626 1.6626 1.6740 0.6796	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1272.6	$\begin{array}{c} 3.86\\ 3.92\\ 3.98\\ 4.04\\ 4.10\\ 4.16\\ 4.22\\ 4.28\\ 4.34\\ 4.40\\ 4.45\\ 4.51\\ 4.57\\ 4.62\\ 4.68\end{array}$	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6312 1.6375 1.6437 1.6556 1.6615 1.6615 1.6672 1.6729 1.6729 1.6785	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1246.3 1251.6 1256.8 1262.1 1267.3	3.77 3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.41 4.47 4.53 4.58	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6426 1.6546 1.6546 1.6605 1.6605 1.6719 1.6775	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1235.4 1240.8 1246.1 1251.4 1256.7 1261.9 1267.1 1272.3	$\begin{array}{c} 3.79\\ 3.85\\ 3.91\\ 3.97\\ 4.03\\ 4.09\\ 4.15\\ 4.21\\ 4.26\\ 4.32\\ 4.32\\ 4.38\\ 4.43\\ 4.49\\ 4.54\\ 4.60\end{array}$	120 [341.3] 1.5893 1.5955 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6476 1.6536 1.6536 1.6594 1.6652 1.6709 1.6765	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2
350 360 370 380 390 400 410 420 430 440 450 460 470 480 490	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.43 4.49 4.55 4.61 4.66	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6194 1.6326 1.6326 1.6488 1.6588 1.6567 1.6626 1.6626 1.6683 1.6740 1.6796 1.6850	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1272.6	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.57 4.62	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6183 1.6248 1.6375 1.6437 1.6437 1.6556 1.6615 1.66729 1.6725 1.6785 1.6840 1.6894 1.68947	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1 1267.3 1272.5	3.77 3.82 3.88 3.95 4.07 4.12 4.18 4.24 4.30 4.36 4.41 4.47 4.53 4.58 4.64	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6364 1.6426 1.6426 1.6486 1.64546 1.6605 1.6605 1.6602 1.6775 1.6830	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1255.7 1261.9 1267.1	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.43 4.49 4.54	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6476 1.6476 1.6536 1.6594 1.6652 1.6709 1.6765 1.6820	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1246.0 1251.6 1251.6 1251.8 1261.8
350 360 370 380 390 400 410 420 430 440 450 460 470 460 470 500 510 520	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.61 4.66 4.72 4.77 4.83 4.89	[339.4] 1.5914 1.5989 1.6059 1.6127 1.6124 1.6259 1.6323 1.6386 1.6386 1.6567 1.6626 1.6663 1.6746 1.6796 1.6796 1.6850 1.6957 1.7009	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1267.4 1267.2 1267.4 1272.6 1277.7 1282.9 1288.0	$\begin{array}{c} 3.86\\ 3.92\\ 3.98\\ 4.04\\ 4.10\\ 4.10\\ 4.16\\ 4.22\\ 4.28\\ 4.34\\ 4.40\\ 4.45\\ 4.51\\ 4.51\\ 4.51\\ 4.62\\ 4.68\\ 4.73\\ 4.79\\ 4.84\\ \end{array}$	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6133 1.6248 1.6375 1.6437 1.6556 1.6615 1.6672 1.6729 1.6785 1.6840 1.6894 1.6947 1.6999	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1 1267.3 1272.5 1277.6 1282.8 1287.9	3.77 3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.36 4.41 4.47 4.53 4.58 4.64 4.69 4.75 4.80	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6426 1.6546 1.6546 1.6665 1.6665 1.66719 1.6719 1.6830 1.6884 1.6937 1.6989	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4 1251.4 1261.9 1267.1 1272.3 1277.5 1282.7 1282.7 1287.8	$\begin{array}{c} 3.79\\ 3.85\\ 3.91\\ 3.97\\ 4.03\\ 4.09\\ 4.15\\ 4.21\\ 4.26\\ 4.32\\ 4.38\\ 4.43\\ 4.49\\ 4.54\\ 4.60\\ 4.65\\ 4.71\\ 4.76\\ \end{array}$	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6094 1.6161 1.6226 1.6291 1.6354 1.6476 1.6536 1.6536 1.6594 1.6652 1.6709 1.6765 1.6820 1.6874 1.6927	1196.4 1202.1 1207.8 1213.4 1213.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.6 1282.7
350 360 370 380 390 400 410 420 430 440 450 460 470 460 470 460 470 500 510 520 530	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.43 4.49 4.55 4.61 4.66 4.72 4.77 4.83 4.89 4.94	[339.4] I.5914 I.5914 I.5989 I.6059 I.6127 I.6194 I.6323 I.6326 I.6488 I.6567 I.6626 I.6683 I.6740 I.6796 I.6850 I.6850 I.6904 I.6957 I.7001	1197.1 1202.8 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1267.4 1277.7 1267.4 1277.7 1282.9 1288.0 1293.1	$\begin{array}{c} 3.86\\ 3.92\\ 3.98\\ 4.04\\ 4.10\\ 4.10\\ 4.16\\ 4.22\\ 4.28\\ 4.34\\ 4.40\\ 4.45\\ 4.51\\ 4.57\\ 4.68\\ 4.73\\ 4.73\\ 4.79\\ 4.84\\ 4.90\end{array}$	[340.0] 1.5907 1.5977 1.6047 1.616 1.6183 1.6248 1.6312 1.6375 1.6437 1.6497 1.6556 1.6672 1.6729 1.6785 1.6894 1.6894 1.6894 1.6997 1.7051	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1235.6 1241.0 1246.3 1251.6 1256.8 1267.3 1277.6 1282.8 1287.9 1283.9 1283.9	3.77 3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.36 4.41 4.47 4.53 4.58 4.64 4.69 4.75 4.80 4.86	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6364 1.6426 1.6426 1.6426 1.6486 1.6486 1.6546 1.6605 1.6605 1.6605 1.6719 1.6775 1.6830 1.6884 1.6937 1.6989 1.7041	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4 1256.7 1267.1 1272.3 1277.5 1282.7 1287.8 1287.8	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.32 4.38 4.43 4.49 4.54 4.65 4.71 4.76 4.71 4.76	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6024 1.6161 1.6226 1.6291 1.6354 1.6475 1.6476 1.6536 1.6594 1.6652 1.6709 1.6765 1.6870 1.6874 1.6874 1.6927 1.69874	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.7 1282.7
350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.61 4.66 4.72 4.77 4.83 4.89 4.94 5.00	[339.4] I.5914 I.5989 I.6059 I.6127 I.6194 I.6259 I.6323 I.6386 I.6568 I.6568 I.6568 I.6567 I.6626 I.6643 I.6796 I.6796 I.6957 I.7009 I.7061 I.7113	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1272.6 1277.7 1282.9 1288.0 1293.1 1298.2	$\begin{array}{c} 3.86\\ 3.92\\ 3.98\\ 4.04\\ 4.10\\ 4.10\\ 4.16\\ 4.22\\ 4.28\\ 4.34\\ 4.40\\ 4.45\\ 4.57\\ 4.62\\ 4.68\\ 4.73\\ 4.79\\ 4.84\\ 4.90\\ 4.95\\ \end{array}$	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6133 1.6248 1.6312 1.6375 1.6437 1.6437 1.6556 1.6615 1.6652 1.6729 1.6785 1.6840 1.6894 1.6999 1.7051 1.7103	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1 1267.3 1272.5 1277.6 1282.8 1287.9 1293.0 1298.1	3.77 3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.30 4.30 4.30 4.36 4.41 4.47 4.53 4.58 4.64 4.69 4.75 4.80 4.86 4.91	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6426 1.6426 1.6426 1.6426 1.6426 1.6652 1.6652 1.6652 1.6652 1.6633 1.6884 1.6937 1.6989 1.7041 1.7093	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1235.4 1240.8 1246.1 1251.4 1256.7 1261.9 1267.1 1272.3 1277.5 1282.7 1282.7 1287.8 1292.9 1298.0	$\begin{array}{c} 3.79\\ 3.85\\ 3.91\\ 3.97\\ 4.03\\ 4.09\\ 4.15\\ 4.21\\ 4.26\\ 4.32\\ 4.38\\ 4.43\\ 4.49\\ 4.54\\ 4.60\\ 4.65\\ 4.71\\ 4.76\\ 4.82\\ 4.87\\ \end{array}$	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6024 1.6161 1.6226 1.6291 1.6291 1.6354 1.6415 1.6476 1.6536 1.6594 1.6652 1.6709 1.6765 1.6820 1.6820 1.6824 1.6927 1.6980 1.7032 1.7083	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.6 1287.7 1292.8 1297.9
350 360 370 380 390 410 420 430 440 450 460 470 480 490 510 520 530 540 550	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.61 4.66 4.72 4.77 4.83 4.89 4.94 5.00 5.05	[339.4] I.5914 I.5989 I.6059 I.6127 I.6194 I.6259 I.6323 I.6386 I.6488 I.6567 I.6626 I.6683 I.6740 I.6796 I.6850 I.6957 I.7009 I.7061 I.7113 I.7164	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1267.2 1267.4 1272.6 1267.4 1272.6 1277.7 1282.9 1288.0 1293.1 1298.2 1303.3	$\begin{array}{c} 3.86\\ 3.92\\ 3.98\\ 4.04\\ 4.10\\ 4.16\\ 4.22\\ 4.28\\ 4.34\\ 4.40\\ 4.45\\ 4.51\\ 4.51\\ 4.51\\ 4.62\\ 4.68\\ 4.73\\ 4.79\\ 4.84\\ 4.90\\ 4.95\\ 5.01\\ \end{array}$	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6133 1.6248 1.6375 1.6437 1.6437 1.6556 1.6615 1.6655 1.6655 1.6655 1.6729 1.6729 1.6785 1.6840 1.6894 1.6947 1.6999 1.7051 1.7154	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1 1267.3 1272.5 1277.6 1282.8 1287.9 1293.0 1298.1 1303.2	3.77 3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.36 4.36 4.41 4.47 4.58 4.64 4.69 4.75 4.80 4.86 4.91 4.97	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6426 1.6426 1.6426 1.6426 1.6546 1.6605 1.6605 1.6719 1.6775 1.6830 1.6884 1.6937 1.6989 1.7041 1.7093 1.7144	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1230.0 1235.4 1240.8 1246.1 1251.4 1251.4 1251.4 1251.4 1267.1 1267.3 1277.5 1287.8 1292.9 1288.0 1303.1	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.38 4.43 4.43 4.43 4.49 4.54 4.60 4.65 4.71 4.76 4.82 4.87 4.92	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6025 1.6026 1.6121 1.6354 1.6476 1.6536 1.6536 1.6594 1.6652 1.6709 1.6765 1.6820 1.6874 1.6927 1.6980 1.7032 1.7083 1.7134	1196.4 1202.1 1207.8 1213.4 1213.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.6 1287.7 1292.8 1297.9 1303.0
350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.66 4.72 4.77 4.83 4.89 4.94 5.00 5.055 5.32 5.59	[339.4] I.5914 I.5989 I.6059 I.6127 I.6194 I.6259 I.6323 I.6386 I.6568 I.6568 I.6568 I.6567 I.6626 I.6643 I.6796 I.6796 I.6957 I.7009 I.7061 I.7113	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1272.6 1277.7 1282.9 1288.0 1293.1 1298.2	$\begin{array}{c} 3.86\\ 3.92\\ 3.98\\ 4.04\\ 4.10\\ 4.10\\ 4.16\\ 4.22\\ 4.28\\ 4.34\\ 4.40\\ 4.45\\ 4.57\\ 4.62\\ 4.68\\ 4.73\\ 4.79\\ 4.84\\ 4.90\\ 4.95\\ \end{array}$	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6133 1.6248 1.6312 1.6375 1.6437 1.6437 1.6556 1.6615 1.6652 1.6729 1.6785 1.6840 1.6894 1.6999 1.7051 1.7103	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1235.6 1241.0 1246.3 1251.6 1256.8 1262.1 1267.3 1272.5 1277.6 1282.8 1287.9 1293.0 1298.1	3.77 3.82 3.88 3.95 4.01 4.07 4.12 4.18 4.24 4.30 4.30 4.30 4.30 4.36 4.41 4.47 4.53 4.58 4.64 4.69 4.75 4.80 4.86 4.91	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6426 1.6426 1.6426 1.6426 1.6426 1.6652 1.6652 1.6652 1.6652 1.6633 1.6884 1.6937 1.6989 1.7041 1.7093	1196.6 1202.3 1208.0 1213.6 1219.1 1224.6 1235.4 1240.8 1246.1 1251.4 1256.7 1261.9 1267.1 1272.3 1277.5 1282.7 1282.7 1287.8 1292.9 1298.0	$\begin{array}{c} 3.79\\ 3.85\\ 3.91\\ 3.97\\ 4.03\\ 4.09\\ 4.15\\ 4.21\\ 4.26\\ 4.32\\ 4.38\\ 4.43\\ 4.49\\ 4.54\\ 4.60\\ 4.65\\ 4.71\\ 4.76\\ 4.82\\ 4.87\\ \end{array}$	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6024 1.6161 1.6226 1.6291 1.6291 1.6354 1.6415 1.6476 1.6536 1.6594 1.6652 1.6709 1.6765 1.6820 1.6820 1.6824 1.6927 1.6980 1.7032 1.7083	1196.4 1202.1 1207.8 1213.4 1213.4 1229.9 1224.4 1229.9 1246.0 1251.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.6 1287.7 1292.8 1297.9
350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 540 550 650 700	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.66 4.72 4.77 4.83 4.89 4.94 5.00 5.05 5.329 5.86	[339.4] I.5914 I.5989 I.6059 I.6127 I.6194 I.6259 I.6323 I.6386 I.6548 I.6567 I.6648 I.6567 I.6626 I.6683 I.6740 I.6796 I.6957 I.7009 I.7061 I.7113 I.7164 I.7761 I.7764	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1277.7 1282.9 1288.0 1293.1 1298.2 1303.3 1328.6 1353.8 1358.9	3.86 3.92 3.98 4.04 4.10 4.16 4.22 4.28 4.34 4.40 4.45 4.51 4.57 4.62 4.68 4.73 4.79 4.84 4.90 4.95 5.01 5.28 5.54 5.81	[340.0] 1.5907 1.5977 1.6047 1.6116 1.6133 1.6248 1.6312 1.6375 1.6437 1.6497 1.6556 1.6615 1.6652 1.6729 1.6785 1.6840 1.6894 1.6999 1.7051 1.7154 1.7154 1.7852	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1235.6 1241.0 1246.3 1251.6 1256.8 1267.3 1277.5 1277.6 1282.8 1287.9 1293.0 1298.1 1303.2 1328.5 1353.7 1378.8	3.77 3.82 3.88 3.95 4.07 4.12 4.12 4.30 4.36 4.36 4.41 4.47 4.53 4.58 4.64 4.69 4.75 4.86 4.91 4.97 5.50 5.76	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6426 1.6426 1.6426 1.6426 1.6652 1.6719 1.6775 1.6830 1.6884 1.6937 1.6989 1.7041 1.7093 1.7144 1.7389 1.7622 1.7843	1196.6 1202.3 1213.6 1219.1 1224.6 1235.4 1240.8 1240.8 1246.1 1251.4 1256.7 1267.1 1277.5 1282.7 1287.8 1292.9 1298.0 1303.1 1328.5 1353.7 1378.8	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.32 4.38 4.43 4.43 4.49 4.54 4.60 4.65 4.71 4.76 4.82 4.87 4.92 5.71	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6024 1.6161 1.6226 1.6291 1.6291 1.6354 1.6476 1.6452 1.6476 1.6452 1.6476 1.6536 1.6594 1.6652 1.6820 1.6820 1.6874 1.6927 1.6980 1.7033 1.7134 1.7739 1.7612 1.7833	1196.4 1202.1 1207.8 1213.4 1218.9 1224.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.6 1287.7 1292.8 1297.9 1303.0 1328.4 1353.6 1378.7
350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 530 540 550 600 650	3.89 3.96 4.02 4.08 4.14 4.20 4.26 4.32 4.38 4.43 4.43 4.49 4.55 4.66 4.72 4.77 4.83 4.89 4.94 5.00 5.055 5.32 5.59	[339.4] I.5914 I.5989 I.6059 I.6127 I.6194 I.6259 I.6323 I.6386 I.6428 I.6567 I.6626 I.6626 I.6623 I.6740 I.6796 I.6850 I.6957 I.7009 I.7064 I.7164 I.7164	1197.1 1202.8 1208.4 1214.0 1219.5 1225.0 1230.4 1235.8 1241.1 1246.4 1251.7 1257.0 1262.2 1267.4 1277.6 1272.6 1277.7 1282.9 1282.9 1293.1 1298.2 1303.3 1328.6 1353.8	$\begin{array}{c} 3.86\\ 3.92\\ 3.98\\ 4.04\\ 4.10\\ 4.10\\ 4.16\\ 4.22\\ 4.28\\ 4.34\\ 4.40\\ 4.45\\ 4.51\\ 4.57\\ 4.62\\ 4.68\\ 4.73\\ 4.79\\ 4.84\\ 4.90\\ 4.95\\ 5.01\\ 5.28\\ 5.54\\ \end{array}$	[340.0] 1.5907 1.5977 1.6047 1.616 1.6183 1.6248 1.6312 1.6375 1.6437 1.6497 1.6556 1.6615 1.6652 1.6729 1.6785 1.6840 1.6894 1.6947 1.6999 1.7051 1.7154 1.7399	1196.9 1202.6 1208.2 1213.8 1219.3 1224.8 1230.2 1235.6 1241.0 1246.3 1251.6 1256.8 1267.3 1272.5 1277.6 1282.8 1287.9 1293.0 1298.1 1303.2 1328.5 1328.5 1353.7	3.77 3.82 3.88 3.95 4.07 4.12 4.78 4.24 4.30 4.36 4.41 4.47 4.53 4.58 4.64 4.69 4.75 4.86 4.91 4.97 5.23 5.50	[340.6] 1.5900 1.5966 1.6036 1.6105 1.6172 1.6237 1.6301 1.6364 1.6426 1.6426 1.6426 1.64546 1.6605 1.6605 1.6605 1.6630 1.6830 1.6834 1.6937 1.7041 1.7093 1.7144 1.7389 1.7622	1196.6 1202.3 1288.0 1213.6 1219.1 1224.6 1235.4 1240.8 1246.1 1251.4 1256.7 1267.1 1272.3 1277.5 1287.8 1292.9 1298.0 1303.1 1328.5 1353.7	3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.26 4.32 4.32 4.38 4.43 4.43 4.49 4.54 4.65 4.71 4.65 4.71 4.82 4.87 4.92 5.45	120 [341.3] 1.5893 1.5955 1.6025 1.6025 1.6025 1.6291 1.6161 1.6226 1.6291 1.6354 1.6476 1.6476 1.6536 1.6594 1.6652 1.6709 1.6765 1.6820 1.6874 1.6927 1.69820 1.7032 1.7033 1.7134	1196.4 1202.1 1202.8 1213.4 1213.4 1229.9 1235.3 1240.7 1246.0 1251.3 1256.6 1261.8 1267.0 1272.2 1277.4 1282.6 1282.7 1292.8 1297.9 1303.0 1328.4 1353.6

Pres- sure		121 [341.9]			122 [342.5]		U	123 [343.1]			124 [343-7]	
Temp ° F.	۷	S	i	v	S	i	v	S	i	v	s	i
Sat.	3.71	1.5886	1191.5	3.68	1.5879	1191.6	3.65	1.5872	1191.8	3.62	1.5865	1191.9
350	3.76	1.5943	1196.2	3.72	1.5932	1196.0	3.69	1.5921	1195.7	3.66	1.5910	1195.5
360	3.82	1.6013	1201.9	3.78	1.6002	1201.7	3.75	1.5991	1201.5	3.72	1.5980	1201.3
370	3.88	1.6082	1207.6	3.84	1.6071	1207.4	3.81	1.6060	1207.2	3.78	1.6049	1207.0
380	3.94	1.6150	1213.2	3.90	1.6139	1213.0	3.87	1.6128	1212.8	3.84	1.6117	1212.6
390	4.00	1.6216	1218.8	3.96	1.6205	1218.6	3.93	1.6194	1218.4	3.89	1.6183	1218.2
400	4.05	1.6280	1224.3	4.02	1.6269	1224.1	3.98	1.6258	1223.9	3.95	1.6248	1223.7
410	4.11	1.6343	1229.7	4.08	1.6332	1229.6	4.04	1.6322	1229.4	4.01	1.6311	1229.2
420	4.17	1.6405	1235.1	4.13	1.6394	1235.0	4.10	1.6384	1234.8	4.06	1.6373	1234.6
430	4.23	1.6466	1240.5	4.19	1.6455	1240.4	4.15	1.6445	1240.2	4.12	1.6434	1240.0
440	4.28	1.6525	1245.9	4.25	1.6515	1245.7	4.21	1.6505	1245.6	4.17	1.6494	1245.4
450	4.34	1.6584	1251.2	4.30	1.6574	1251.0	4.26	1.6563 -	1250.9	4.23	1.6553	1250.7
460	4.39	1.6642	1256.4	4.36	1.6631	1256.3	4.32	1.6621	1256.2	4.28	1.6611	1256.0
470	4.45	1.6699	1261.7	4.41	1.6688	1261.6	4.37	1.6678	1261.4	4.34	1.6668	1261.3
480	4.50	1.6754	1266.9	4.46	1.6744	1266.8	4.43	1.6734	1266.7	4.39	1.6724	1266.6
490	4.56	1.6809	1272.1	4.52	1.6799	1272.0	4.48	1.6789	1271.9	4.44	1.6779	1271.8
500	4.61	1.6864	1277.3	4.57	1.6854	1277.2	4.54	1.6844	1277.1	4.50	1.6834	1277.0
510	4.67	1.6918	1282.5	4.63	1.6908	1282.4	4.59	1.6898	1282.2	4.55	1.6988	1282.1
520	4.72	1.6971	1287.6	4.68	1.6961	1287.5	4.64	1.6951	1287.4	4.60	1.6941	1287.3
530	4.77	1.7023	1292.7	4.73	1.7013	1292.6	4.69	1.7003	1292.6	4.66	1.6993	1292.5
540	4.83	1.7074	1297.9	4.79	1.7064	1297.8	4.75	1.7054	1297.7	4.71	1.7044	1297.6
550	4.88	1.7124	1303.0	4.84	1.7114	1302.9	4.80	1.7105	1302.8	4.76	1.7095	1302.7
600	5.15	1.7370	1328.3	5.10	1.7360	1328.3	5.06	1.7350	1328.2	5.02	1.7341	1328.1
650	5.41	1.7602	1353.5	5.36	1.7593	1353.5	5.32	1.7583	1353.4	5.27	1.7574	1353.3
700	5.66	1.7824	1378.7	5.62	1.7815	1378.6	5.57	1.7805	1378.6	5.52	1.7796	1378.5
750	5.92	1.8037	1403.9	5.87	1.8027	1403.8	5.82	1.8018	1403.8	5.77	1.8009	1403.7
		105			100		1	407			400	·
		125 [344:4]	2		126 [345.0]			127 [345.6]			128 [346.2]	
Sat.	3.59	1.5858	1192.0	3.57	1.5852	1192.1	3.54	1.5845	1192.3	3.51	1.5838	1192.4
350	3.63	1.5899	1195.3	3.60	1.5888	1195.1	.3.57	1.5877	1194.9	3.54	1.5866	1194.6
360	3.69	1.5970	1201.1	3.66	1.5959	1200.9	3.62	1.5948	1200.7	3.59	1.5937	1200.4
370	3.75	1.6039	1206.8	3.71	1.6028	1206.6	3.68	1.6017	1206.4	3.65	1.6007	1 206.2
380	3.80	1.6106	1212.4	3.77	1.6096	1212.2	3.74	1.6085	1212.0	3.71	1.6075	1211.9
390	3.86	1.6172	1218.0	3.83	1.6162	1217.8	3.80	1.6151	1217.6	3.77	1.6141	1217.5
400	3.92	1.6237	1223.6	3.88	1.6227	1223.4	3.85	1.6216	1223.2	3.82	1.6206	1223.0
410	3.97	1.6301	1229.1	3.94	1.6291	1228.9	3.91	1.6281	1228.7	3.88	1.6271	1228.5
420	4.03	1.6363	1234.5	4.00	1.6353	1234.3	3.96	1.6343	1234.2	3.93	1.6333	1234.0
430	4.08	1.6424	1239.9	4.05	1.6414	1239.7	4.02	1.6404	1239.6	3.98	1.6394	1239.4

420	4.03 4.08	1.6363	1234.5 1239.9	4.00	1.6353	1234.3 1239.7	3.96	1.6343	1234.2 1239.6	3.93 3.98	1.6333 1.6394	1234.0
440	4.14	1.6484	1245.3	4.10	1.6474	1245.1	4.07	1.6464	1245.0	4.04	1.6454	1244.8
450	4.19	1.6543	1250.6	4.16	1.6533	1250.5	4.12	1.6523	1250.3	4.09	1.6513	1250.2
460	4.25	1.6601	1255.9	4.21	1.6591	1255.8	4.18	1.6581	1255.6	4.14	1.6572	1255.5
470	4.30	1.6658	1261.2	4.27	1.6648	1261.1	4.23	1.6639	1260.9	4.20	1.6629	1260.8
480	4.35	1.6714	1266.4	4.32	1.6704	1266.3	4.28	1.6695	1266.2	4.25	1.6685	1266.1
490	4.41	1.6770	1271.7	4.37	1.6760	1271.5	4.34	1.6750	1271.4	4.30	1.6740	1271.3
500	4.46	1.6824	1276.9	4.42	1.6814	1276.7	4.39	1.6805	1276.6	4.35	1.6795	1276.5
510	4.51	1.6878	1282.0	4.48	1.6868	1281.9	4.44	1.6859	1281.8	4.40	1.6849	1281.7
520	4.56	1.6931	1287.2	4.53	1.6921	1287.1	4.49	1.6912	1287.0	4.46	1.6902	1286.9
530	4.62	1.6983	1292.4	4.58	1.6973	1292.3	4.54	1.6964	1292.2	4.51	1.6955	1292.1
540	4.67	1.7034	1297.5	4.63	1.7025	1297.4	4.59	1.7015	1297.3	4.56	1.7006	1297.2
550	4.72	1.7085	1302.6	4.68	1.7076	1302.5	4.65	1.7066	1302.4	4.61	1.7057	1302.3
600	4.98	1.7332	1328.0	4.94	1.7322	1328.0	4.90	1.7312	1327.9	4.86	1.7303	1327.8
650	5.23	1.7565	1353.3	5.19	1.7555	1353.2	5.15	1.7546	1353.2	5.11	1.7537	1353.1
700	5.48	1.7787	1378.5		1.7778	1378.4		1.7769	1378.4	5.35	1.7760	1378.3
	-	1.8000	V. V	5.44			5.39					1403.6
750	5.73	1.0000	1403.7	5.68	1.7991	1403.7	5.64	1.7982	1403.6	5.59	1.7973	1403.0

Pres- sure		129 [346.8]			130 [347-4]			131 [347.9]	a s	F. h	132 [348.5]	
Temp °F.	v	s	i	v	S	i	v	S	i	v	s	i
Sat.	3.49	1.5832	1192.5	3.46	1.5825	1192.6	3.44	1.5819	1192.7	3.41	1.5812	1192.9
350 360 370 380 390	3.51 3.56 3.62 3.68 3.73	1.5855 1.5926 1.5996 1.6064 1.6131	1194.4 1200.2 1206.0 1211.7 1217.3	3.48 3.54 3.59 3.65 3.70	1.5844 1.5916 1.5986 1.6054 1.6121	1194.2 1200.0 1205.8 1211.5 1217.1	3.45 3.51 3.56 3.62 3.67	1.5833 1.5905 1.5975 1.6043 1.6110	1194.0 1199.8 1205.6 1211.3 1216.9	3.42 3.48 3.53 3.59 3.64	1.5823 1.5895 1.5965 1.6033 1.6100	1193.7 1199.6 1205.4 1211.1 1216.7
400 410 420 430 440	3.79 3.84 3.90 3.95 4.00	1.6196 1.6260 1.6323 1.6384 1.6444	1222.9 1228.4 1233.9 1239.3 1244.7	3.76 3.81 3.87 3.92 3.97	1.6186 1.6250 1.6313 1.6374 1.6434	1222.7 1228.2 1233.7 1239.1 1244.5	3.73 3.78 3.84 3.89 3.94	1.6176 1.6240 1.6303 1.6364 1.6425	1222.5 1228.0 1233.5 1239.0 1244.4	3.70 3.75 3.81 3.86 3.91	1.6166 1.6230 1.6293 1.6354 1.6415	1222.3 1227.9 1233.4 1238.8 1244.2
450 460 470 480 490	4.06 4.11 4.16 4.21 4.27	1.6503 1.6562 1.6619 1.6675 1.6731	1250.1 1255.4 1260.7 1265.9 1271.2	4.03 4.08 4.13 4.18 4.23	1.6494 1.6552 1.6610 1.6666 1.6721	1249.9 1255.2 1260.5 1265.8 1271.1	3.99 4.05 4.10 4.15 4.20	1.6484 1.6542 1.6600 1.6656 1.6712	1249.8 1255.1 1260.4 1265.7 1271.0	3.96 4.01 4.07 4.12 4.17	1.6474 1.6533 1.6590 1.6647 1.6703	1249.6 1255.0 1260.3 1265.6 1270.9
500 510 520 530 540	4.32 4.37 4.42 4.47 4.52	1.6786 1.6840 1.6893 1.6945 1.6997	1276.4 1281.6 1286.8 1292.0 1297.1	4.28 4.34 4.39 4.44 4.49	1.6776 1.6830 1.6883 1.6936 1.6987	1276.3 1281.5 1286.7 1291.9 1297.0	4.25 4.30 4.35 4.40 4.45	1.6767 1.6821 1.6874 1.6927 1.6978	1276.2 1281.4 1286.6 1291.8 1296.9	4.22 4.27 4.32 4.37 4.42	1.6757 1.6811 1.6865 1.6917 1.6969	1276.1 1281.3 1286.5 1291.7 1296.8
550 600 650 700 750	4.57 4.82 5.07 5.31 5.55	1.7048 1.7294 1.7528 1.7751 1.7964	1302.2 1327.7 1353.0 1378.3 1403.5	4.54 4.78 5.03 5.27 5.51	1.7039 1.7285 1.7519 1.7742 1.7955	1302.1 1327.7 1353.0 1378.2 1403.5	4.50 4.75 4.99 5.23 5.46	1.7029 1.7276 1.7510 1.7733 1.7946	1302.1 1327.6 1352.9 1378.2 1403.5	4.47 4.71 4.95 5.19 5.42	1.7020 1.7267 1.7501 1.7724 1.7938	1302.0 1327.5 1352.9 1378.1 1403.4
	,	1							1	1	1	
		133 [349.1]			134 [349.7]			135 [350.3]			136 [350.8]	
Sat.	3.39		1193.0	3.36		1193.1	3.34		1193.2	3.32		1193.3
	3.39 3.45 3.51 3.56 3.62	[349.1]	1193.0 1199.4 1205.2 1210.9 1216.6	3.36 3.42 3.48 3.53 3.59	[349.7]		3.34 3.39 3.45 3.50 3.56	[350.3]	1193.2 1198.9 1204.8 1210.5 1216.2	3.32 3.37 3.42 3.48 3.53	[350.8]	1193.3 1198.7 1204.5 1210.3 1216.0
Sat. 360 370 380	3.45 3.51 3.56	[349.1] 1.5806 1.5884 1.5954 1.6023	1199.4 1205.2 1210.9	3.42 3.48 3.53	[349.7] 1.5800 1.5874 1.5944 1.6013	1193.1 1199.2 1205.0 1210.7	3.39 3.45 3.50	[350.3] 1.5793 1.5863 1.5934 1.6003	1198.9 1204.8 1210.5	3.37 3.42 3.48	[350.8] 1.5787 1.5853 1.5924 1.5993	1198.7 1204.5 1210.3
Sat. 360 370 380 390 400 410 420 430	3.45 3.51 3.56 3.62 3.67 3.72 3.78 3.83	[349.1] 1.5806 1.5884 1.5954 1.6023 1.6090 1.6156 1.6220 1.6283 1.6345	1199.4 1205.2 1210.9 1216.6 1222.2 1227.7 1233.2 1238.7 1244.1 1249.5 1254.8	3.42 3.48 3.53 3.59 3.64 3.69 3.75 3.80	[349.7] 1.5800 1.5874 1.5944 1.6013 1.6080 1.6146 1.6210 1.6273 1.6335	1193.1 1199.2 1205.0 1210.7 1216.4 1222.0 1227.5 1233.0 1238.5	3.39 3.45 3.50 3.56 3.61 3.66 3.72 3.77	[350.3] 1.5793 1.5863 1.5934 1.6003 1.6070 1.6136 1.6200 1.6263 1.6225	1198.9 1204.8 1210.5 1216.2 1221.8 1227.4 1232.9 1238.4 1243.8 1249.2 1254.6 1259.9	3.37 3.42 3.48 3.53 3.58 3.64 3.69 3.74	[350.8] 1.5787 1.5853 1.5924 1.5993 1.6060 1.6126 1.6126 1.6190 1.6254 1.6316	1198.7 1204.5 1210.3 1216.0 1221.6 1227.2 1232.7 1238.2
Sat. 360 370 380 390 400 410 420 430 440 450 460 470 480	3.45 3.51 3.56 3.62 3.67 3.72 3.78 3.83 3.88 3.93 3.98 4.03 4.08	[349.1] 1.5806 1.5884 1.5954 1.6023 1.6090 1.6156 1.6220 1.6283 1.6345 1.6345 1.6455 1.6524 1.6581 1.6581 1.6638	1199.4 1205.2 1210.9 1216.6 1222.2 1227.7 1233.2 1238.7 1238.7 1244.1 1249.5 1254.8 1260.2 1265.5	3.42 3.48 3.53 3.59 3.64 3.69 3.75 3.80 3.85 3.90 3.95 4.00 4.05	[349-7] 1.5800 1.5874 1.5944 1.6013 1.6080 1.6146 1.6210 1.6233 1.6336 1.6455 1.6514 1.65514 1.6528	1193.1 1199.2 1205.0 1210.7 1216.4 1222.0 1227.5 1233.0 1238.5 1234.0 1244.0 1249.4 1254.7 1260.0 1265.3	3.39 3.45 3.50 3.56 3.61 3.66 3.72 3.77 3.82 3.87 3.92 3.97 4.02	[350.3] 1.5793 1.5863 1.5934 1.6033 1.6070 1.6136 1.6200 1.6263 1.6325 1.6325 1.6325 1.6346 1.6505 1.6505 1.6509	1198.9 1204.8 1210.5 1216.2 1221.8 1227.4 1232.9 1238.4 1243.8 1243.8 1249.2 1254.6 1259.9 1265.2	3.37 3.42 3.48 3.53 3.58 3.64 3.69 3.74 3.79 3.84 3.89 3.94 3.99	[330.8] 1.5787 1.5853 1.5924 1.5993 1.60560 1.6126 1.6190 1.6254 1.6316 1.6377 1.6436 1.6495 1.6553 1.6510	1198.7 1204.5 1210.3 1216.0 1221.6 1227.2 1232.7 1238.2 1243.7 1249.1 1254.4 1259.8 1265.1
Sat. 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530	3.45 3.51 3.56 3.62 3.67 3.72 3.78 3.83 3.88 3.93 3.98 4.03 4.03 4.03 4.13 4.18 4.28 4.33	[349.1] 1.5806 1.5884 1.5954 1.6030 1.6156 1.6220 1.6283 1.6345 1.6405 1.6405 1.6524 1.6581 1.6638 1.6693 1.6748 1.6822 1.6826	1199.4 1205.2 1210.9 1216.6 1222.2 1233.2 1233.7 1244.1 1249.5 1254.8 1265.5 1270.7 1276.0 1281.2 1286.4 1291.6	3.42 3.48 3.53 3.59 3.64 3.69 3.75 3.80 3.75 3.80 3.95 4.00 4.05 4.10 4.15 4.20 4.25 4.30	[349-7] 1.5800 1.5874 1.5944 1.6013 1.6080 1.6146 1.6210 1.6273 1.6336 1.6336 1.6455 1.6514 1.6554 1.6554 1.6628 1.6684 1.6739 1.6899	1193.1 1199.2 1205.0 1210.7 1216.4 1222.0 1233.0 1238.5 1244.0 1249.4 1254.7 1260.0 1249.4 1254.7 1260.0 1270.6 1270.6 1275.9 1281.1 1286.3 1291.5	3.39 3.45 3.50 3.56 3.66 3.72 3.77 3.82 3.97 3.92 3.97 4.02 4.07 4.12 4.17 4.22 4.27	[350.3] 1.5793 1.5863 1.5934 1.6070 1.6136 1.6263 1.6263 1.6325 1.6386 1.6446 1.6505 1.6562 1.6575 1.6730 1.6730 1.6730 1.6837	1198.9 1204.8 1210.5 1216.2 1221.8 1227.4 1232.9 1238.4 1243.8 1249.2 1254.6 1259.9 1265.2 1270.5 1270.5 1270.5 1270.5 1270.5 1280.9 1286.2 1291.4	3.37 3.42 3.48 3.53 3.58 3.64 3.69 3.74 3.79 3.84 3.89 3.94 3.99 4.04 4.09 4.19 4.24	[330.8] 1.5787 1.5853 1.5924 1.5993 1.6060 1.6126 1.6190 1.6254 1.6377 1.6436 1.6495 1.6533 1.6649 1.6653 1.66721 1.6775 1.6828 1.6881	1198.7 1204.5 1210.3 1216.0 1221.6 1227.2 1232.7 1238.2 1243.7 1249.1 1254.4 1259.5 1270.4 1270.4 1275.6 1280.8 1286.1 1291.3

Pres- sure		137 [351.4]			138 [352.0]			139 [352.5]			140 [353.1]	
Temp ° F.	v	8	i	V	s	i	v	S	i	v	s	i
Sat.	3.29	1.5781	1193.4	3.27	1.5775	1193.5	3.25	1.5769	1193.6	3.23	1.5762	1193.7
360	3.34	1.5843	1198.5	3.31	1.5833	1198.3	3.29	1.5823	1198.1	3.26	1.5813	1197.9
370	3.40	1.5914	1204.3	3.37	1.5904	1204.1	3.34	1.5894	1203.9	3.32	1.5884	1203.7
380 390	3.45 3.50	1.5983 1.6050	1210.1	3.42 3.48	1.5973 1.6040	1209.9 1215.6	3.40 3.45	1.5963 1.6031	1209.7 1215.4	3.37 3.42	1.5953 1.6021	1209.5
400 410	3.56 3.61	1.6116	I22I.4 I227.0	3.53 3.58	1.6106	1221.3 1226.9	3.50 3.55	1.6097 1.6162	1221.1 1226.7	3.48 3.53	1.6087 1.6152	1220.9 1226.5
420	3.66	1.6244	1232.6	3.63	1.6235	1220.9	3.60	1.6225	1232.2	3.58	1.6216	1232.1
430	3.71	1.6306	1238.1	3.68	1.6297	1237.9	3.65	1.6287	1237.7	3.63	1.6278	1237.6
440	3.76	1.6367	1243.5	3.73	1.6358	1243.4	3.71	1.6348	1243.2	3.68	1.6339	1243.1
450	3.81	1.6427	1248.9	3.78	1.6418	1248.8	3.76	1.6409	1248.6	3.73	1.6400	1248.5
460	3.86	1.6486	1254.3	3.83	1.6477	1254.2	3.81	1.6467 1.6526	1254.0	3.78	1.6458 1.6517	1253.9
470 480	3.91 3.96	1.6544	1259.6 1265.0	3.88 3.93	1.6535	1259.5 1264.8	3.85 3.90	1.6582	1259.4 1264.7	3.83 3.87	1.6573	1259.3 1264.6
490	4.01	1.6656	1270.3	3.98	1.6647	1270.1	3.95	1.6638	1270.0	3.92	1.6629	1269.9
500	4.06	1.6711	1275.5	4.03	1.6702	1275.4	4.00	1.6693	1275.3	3.97	1.6685	1275.2
510	4.11	1.6766	1 280.7	4.08	1.6757	1280.6	4.05	1.6748	1280.5	4.02	1.6739	1280.4
520	4.15	1.6819	1286.0	4.12	1.6810	1285.9	4.09	1.6801	1285.7	4.06	1.6793	1285.6
530 540	4.20	1.6872	1291.2	4.17 4.22	1.6863	1291.1 1296.2	4.14	1.6854	1291.0 1296.1	4.11 4.16	1.6846 1.6898	1290.9 1296.0
550	4.30	1.6975	1301.5 1327.1	4.27 4.50	1.6966 1.7215	1301.4 1327.1	4.24	1.6958	1301.3 1327.0	4.21 4.44	1.6949	1301.2 1326.9
650	4.53 4.77	1.7458	1327.1	4.50	1.7449	1352.5	4.70	1.7441	1352.4	4.66	1.7433	1320.9
700	5.00	1.7681	1377.9	4.96	1.7673	1377.8	4.92	1.7664	1377.8	4.89	1.7656	1377.7
750	5.22	1.7895	1403.2	5.18	1.7887	1403.2	5.14	1.7878	1403.1	5.11	1.7870	1403.1
800	5.45	1.8101	1428.6	5.41	1.8092	1428.6	5.37	1.8084	1428.5	5.33	1.8076	1428.5
										,	,	
		141 [353.6]			142 [354.2]			143 [354.8]			144 [355-3]	
Sat.	3.20		1193.8	3.18		1193.9	3.16		1194.0	3.14		1194.1
		[353.6] 1.5756			[354.2] 1.5750			[354.8] 1.5744	- 1 -		[355-3] 1.5738	
Sat. 360 370	3.20 3.24 3.29	[353.6]	1193.8 1197.6 1203.5	3.18 3.21 3.27	[354.2]	1193.9 1197.4 1203.3	3.16 3.19 3.24	[354.8]	1194.0 1197.2 1203.1	3.14 3.17 3.22	[355-3]	1194.1 1197.0 1202.9
360 370 380	3.24 3.29 3.34	[353.6] 1.5756 1.5803 1.5874 1.5943	1197.6 1203.5 1209.3	3.21 3.27 3.32	[354.2] 1.5750 1.5793 1.5864 1.5934	1197.4 1203.3 1209.1	3.19 3.24 3.29	[354.8] 1.5744 1.5783 1.5854 1.5924	1197.2 1203.1 1208.9	3.17 3.22 3.27	[355-3] 1.5738 1.5773 1.5844 1.5914	1197.0 1202.9 1208.7
360 370 380 390	3.24 3.29	[353.6] 1.5756 1.5803 1.5874	1197.6 1203.5	3.21 3.27	[354.2] 1.5750 1.5793 1.5864	1197.4 1203.3	3.19 3.24	[354.8] 1.5744 1.5783 1.5854	1197.2 1203.1	3.17 3.22	[355-3] 1.5738 1.5773 1.5844	1197.0 1202.9
360 370 380 390 400	3.24 3.29 3.34 3.40 3.45	[353.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078	1197.6 1203.5 1209.3 1215.1 1220.7	3.21 3.27 3.32 3.37 3.42	[354.2] 1.5750 1.5793 1.5864 1.5934 1.6002 1.6068	1197.4 1203.3 1209.1 1214.9 1220.6	3.19 3.24 3.29 3.35 3.40	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5992 1.6059	1197.2 1203.1 1208.9 1214.7 1220.4	3.17 3.22 3.27 3.32 3.32	[355-3] 1.5738 1.5773 1.5844 1.5914 1.5983 1.6049	1197.0 1202.9 1208.7 1214.5 1220.2
360 370 380 390 400 410	3.24 3.29 3.34 3.40 3.45 3.50	[353.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143	1197.6 1203.5 1209.3 1215.1 1220.7 1226.3	3.21 3.27 3.32 3.37 3.42 3.42 3.47	[354.2] 1.5750 1.5793 1.5864 1.5934 1.6002 1.6068 1.6133	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2	3.19 3.24 3.29 3.35 3.40 3.45	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5992 1.6059 1.6124	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0	3.17 3.22 3.27 3.32 3.32 3.37 3.42	[335-3] 1.5738 1.5773 1.5844 1.5914 1.5983 1.6049 1.6115	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8
360 370 380 390 400	3.24 3.29 3.34 3.40 3.45	[353.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078	1197.6 1203.5 1209.3 1215.1 1220.7	3.21 3.27 3.32 3.37 3.42	[354.2] 1.5750 1.5793 1.5864 1.5934 1.6002 1.6068	1197.4 1203.3 1209.1 1214.9 1220.6	3.19 3.24 3.29 3.35 3.40	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5992 1.6059	1197.2 1203.1 1208.9 1214.7 1220.4	3.17 3.22 3.27 3.32 3.32	[355-3] 1.5738 1.5773 1.5844 1.5914 1.5983 1.6049	1197.0 1202.9 1208.7 1214.5 1220.2
360 370 380 390 400 410 420	3.24 3.29 3.34 3.40 3.45 3.50 3.55	[353.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207	1197.6 1203.5 1209.3 1215.1 1220.7 1226.3 1231.9	3.21 3.27 3.32 3.37 3.42 3.47 3.52	[354.2] 1.5750 1.5793 1.5864 1.5934 1.6002 1.6068 1.6133 1.6197	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2 1231.7	3.19 3.24 3.29 3.35 3.40 3.45 3.50	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5992 1.6059 1.6124 1.6188	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0 1231.6	3.17 3.22 3.27 3.32 3.32 3.37 3.42 3.47	[335-3] 1.5773 1.5773 1.5773 1.5844 1.5914 1.5983 1.6049 1.6115 1.6179	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4
360 370 380 390 400 410 420 430 440 450	3.24 3.29 3.34 3.40 3.45 3.50 3.55 3.60	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6269 1.6330 1.6390	1197.6 1203.5 1209.3 1215.1 1220.7 1226.3 1231.9 1237.4	3.21 3.27 3.32 3.37 3.42 3.47 3.52 3.57	[334.2] I.5750 I.5793 I.5864 I.5934 I.6002 I.6068 I.6133 I.6197 I.6260 I.6321 I.6381	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2 1231.7 1237.3 1242.8 1248.2	3.19 3.24 3.29 3.35 3.40 3.45 3.50 3.55	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5992 1.6059 1.6124 1.6188 1.6250 1.6312 1.6372	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0 1231.6 1237.1	3.17 3.22 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62	[355-3] 1.5738 1.5738 1.5738 1.5914 1.5983 1.6049 1.6115 1.6179 1.6241 1.6303 1.6363	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0
360 370 380 390 400 410 420 430 440 450 460	3.24 3.29 3.34 3.40 3.45 3.50 3.55 3.60 3.65 3.70 3.75	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6269 1.6330 1.6390 1.6349	1197.6 1203.5 1209.3 1215.1 1220.7 1226.3 1231.9 1237.4 1242.9 1248.4 1253.8	3.21 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72	[334.2] 1.5750 1.5793 1.5864 1.5934 1.6002 1.6068 1.6133 1.6197 1.6260 1.6321 1.6381 1.6381 1.6440	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2 1231.7 1237.3 1242.8 1248.2 1248.2 1253.6	3.19 3.24 3.29 3.35 3.40 3.45 3.50 3.55 3.60 3.65 3.69	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5929 1.6059 1.6124 1.6188 1.6250 1.6312 1.6372 1.6431	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0 1231.6 1237.1 1242.6 1248.1 1253.5	$\begin{array}{c} 3.17\\ 3.22\\ 3.27\\ 3.32\\ 3.37\\ 3.42\\ 3.47\\ 3.52\\ 3.57\\ 3.62\\ 3.67\\ \end{array}$	[355-3] 1.5738 1.5773 1.5844 1.5914 1.5983 1.6049 1.6115 1.6179 1.6241 1.6303 1.6363 1.6422	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3
360 370 380 390 400 410 420 430 440 450 460 470	3.24 3.29 3.34 3.40 3.45 3.50 3.55 3.60 3.65 3.70 3.75 3.80	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6209 1.62300 1.62300 1.6449 1.6507	1197.6 1203.5 1209.3 1215.1 1226.7 1226.3 1237.4 1242.9 1248.4 1253.8 1259.1	3.21 3.27 3.32 3.37 3.42 3.47 3.52 3.67 3.62 3.67 3.72 3.77	[334.2] I.5750 I.5793 I.5864 I.5934 I.6068 I.6133 I.6197 I.6260 I.6260 I.6321 I.6381 I.6440 I.6448	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2 1231.7 1237.3 1242.8 1248.2 1248.2 1253.6 1259.0	3.19 3.24 3.29 3.35 3.40 3.45 3.40 3.45 3.55 3.60 3.65 3.69 3.74	[354.8] 1.5744 1.5783 1.5854 1.5992 1.6059 1.6124 1.6188 1.6250 1.6312 1.6372 1.6431 1.6430	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0 1231.6 1237.1 1242.6 1248.1 1253.5 1258.9	$\begin{array}{c} 3.17\\ 3.22\\ 3.27\\ 3.32\\ 3.37\\ 3.42\\ 3.47\\ 3.52\\ 3.57\\ 3.62\\ 3.67\\ 3.72\\ \end{array}$	[355-3] 1.5738 1.5773 1.5844 1.5914 1.5983 1.6049 1.6115 1.6179 1.6241 1.6303 1.6363 1.6422 1.6481	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3 1258.7
360 370 380 390 400 410 420 430 440 450 460	3.24 3.29 3.34 3.40 3.45 3.50 3.55 3.60 3.65 3.70 3.75	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6269 1.6330 1.6390 1.6349	1197.6 1203.5 1209.3 1215.1 1220.7 1226.3 1231.9 1237.4 1242.9 1248.4 1253.8	3.21 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72	[334.2] 1.5750 1.5793 1.5864 1.5934 1.6002 1.6068 1.6133 1.6197 1.6260 1.6321 1.6381 1.6381 1.6440	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2 1231.7 1237.3 1242.8 1248.2 1248.2 1253.6	3.19 3.24 3.29 3.35 3.40 3.45 3.50 3.55 3.60 3.65 3.69	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5929 1.6059 1.6124 1.6188 1.6250 1.6312 1.6372 1.6431	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0 1231.6 1237.1 1242.6 1248.1 1253.5	$\begin{array}{c} 3.17\\ 3.22\\ 3.27\\ 3.32\\ 3.37\\ 3.42\\ 3.47\\ 3.52\\ 3.57\\ 3.62\\ 3.67\\ \end{array}$	[355-3] 1.5738 1.5773 1.5844 1.5914 1.5983 1.6049 1.6115 1.6179 1.6241 1.6303 1.6363 1.6422	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3
360 370 380 390 400 410 420 430 440 450 460 470 480	3.24 3.29 3.34 3.40 3.45 3.50 3.55 3.65 3.65 3.70 3.75 3.80 3.84 3.89	[333.6] I.5756 I.5803 I.5874 I.5943 I.6011 I.6078 I.6143 I.6269 I.6269 I.6330 I.6390 I.6390 I.654	1197.6 1203.5 1209.3 1215.1 1220.7 1226.3 1231.9 1237.4 1242.9 1248.4 1253.8 1259.1 1264.5 1269.8	3.21 3.27 3.32 3.37 3.42 3.47 3.52 3.67 3.62 3.67 3.72 3.77 3.82 3.86	[334.2] I.5750 I.5793 I.5864 I.5934 I.6068 I.6133 I.6197 I.6260 I.6381 I.6381 I.6381 I.6498 I.6556	1197.4 1203.3 1209.1 1214.9 1226.2 1231.7 1237.3 1242.8 1248.2 1253.6 1259.0 1264.3 1269.7	3.19 3.24 3.29 3.35 3.40 3.45 3.50 3.45 3.50 3.55 3.60 3.65 3.69 3.74 3.79 3.84	[354.8] 1.5744 1.5783 1.5854 1.5922 1.6059 1.6124 1.6188 1.6250 1.6312 1.6372 1.6431 1.6490 1.6547 1.6603	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0 1231.6 1237.1 1242.6 1248.1 1253.5 1258.9 1264.2 1269.5	3.17 3.22 3.27 3.32 3.37 3.42 3.47 3.42 3.47 3.57 3.62 3.67 3.72 3.62 3.67 3.72 3.81	[335-3] 1.5738 1.5738 1.5733 1.5844 1.5983 1.6049 1.6115 1.6179 1.6241 1.6303 1.6363 1.6363 1.6422 1.6481 1.6538	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3 1258.7 1264.1 1269.4
360 370 380 390 400 410 420 430 440 440 450 460 470 480 490 510	3.24 3.29 3.34 3.40 3.45 3.50 3.55 3.60 3.65 3.70 3.75 3.80 3.80 3.84	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6269 1.6330 1.6390 1.6449 1.6507 1.6564 1.6507 1.6564 1.6676 1.6676	1197.6 1209.3 1209.3 1215.1 1226.3 1237.4 1242.9 1248.4 1253.8 1259.1 1264.5 1269.8 1275.1 1280.3	3.21 3.27 3.32 3.37 3.42 3.47 3.57 3.57 3.62 3.67 3.72 3.77 3.82 3.86 3.91 3.96	[334.2] I.5750 I.5793 I.5864 I.5934 I.6068 I.6133 I.6197 I.6260 I.6321 I.6381 I.6498 I.6498 I.64556 I.6612 I.6667 I.66722	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2 1231.7 1242.8 1248.2 1253.6 1253.6 1259.0 1264.3 1269.7 1274.9 1280.2	3.19 3.24 3.29 3.35 3.40 3.45 3.55 3.60 3.65 3.69 3.74 3.79 3.84 3.88 3.93	[354.8] 1.5744 1.5783 1.5854 1.5992 1.6059 1.6128 1.6250 1.6312 1.6372 1.6431 1.6490 1.6547 1.6603 1.6658 1.6713	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0 1231.6 1237.1 1242.6 1248.1 1253.5 1258.9 1264.2 1269.5 1274.8 1280.1	3.17 3.22 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72 3.76	[335-3] 1.5738 1.5738 1.5738 1.5914 1.5983 1.6049 1.6115 1.6179 1.6241 1.6303 1.6363 1.6422 1.6481 1.6538 1.6594 1.6650 1.6704	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3 1258.7 1264.1 1269.4 1274.7 1280.0
360 370 380 390 410 420 430 440 450 460 470 480 490 500 510 520	3.24 3.29 3.34 3.40 3.45 3.50 3.55 3.60 3.65 3.70 3.75 3.80 3.84 3.89 3.94 3.99	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6943 1.6078 1.6143 1.6207 1.6269 1.6330 1.6390 1.6449 1.6554 1.6507 1.65620 1.6676 1.6676 1.6678	1197.6 1209.3 1209.3 1215.1 1220.7 1226.3 1231.9 1237.4 1242.9 1248.4 1253.8 1259.1 1264.5 1269.8 1275.1 1280.3 1285.5	3.21 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72 3.72 3.86 3.91 3.96 4.01	[334.2] 1.5750 1.5793 1.5864 1.5934 1.5934 1.6068 1.6133 1.6197 1.6260 1.6321 1.6381 1.6440 1.64556 1.6657 1.6667 1.6722 1.6667	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2 1231.7 1242.8 1242.8 1248.2 1253.6 1259.0 1264.3 1269.7 1274.9 1280.2 1285.4	3.19 3.24 3.29 3.35 3.40 3.45 3.40 3.45 3.55 3.60 3.55 3.60 3.65 3.69 3.74 3.79 3.84 3.88 3.93 3.98	[354.8] 1.5744 1.5783 1.5854 1.5922 1.6059 1.6124 1.6188 1.6250 1.6312 1.6372 1.6431 1.6430 1.6563 1.6658 1.6713 1.677	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0 1231.6 1237.1 1242.6 1248.1 1253.5 1258.9 1264.2 1269.5 1274.8 1280.1 1285.3	3.17 3.22 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72 3.76 3.81 3.85 3.90 3.95	[335-3] 1.5738 1.5773 1.5844 1.5914 1.5983 1.6049 1.6115 1.6179 1.6241 1.6303 1.6363 1.6422 1.6481 1.6554 1.6554 1.6554	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3 1258.7 1264.1 1269.4 1274.7 1280.0 1285.2
360 370 380 390 410 410 430 440 450 440 450 450 450 510 520 530	3.24 3.29 3.34 3.40 3.45 3.55 3.60 3.65 3.70 3.75 3.80 3.75 3.80 3.84 3.89 3.94 3.99	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6269 1.6330 1.6390 1.6449 1.6507 1.6564 1.6507 1.6564 1.6676 1.6676	1197.6 1209.3 1209.3 1215.1 1226.3 1237.4 1242.9 1248.4 1253.8 1259.1 1264.5 1269.8 1275.1 1280.3	3.21 3.27 3.32 3.37 3.42 3.47 3.57 3.57 3.62 3.67 3.72 3.77 3.82 3.86 3.91 3.96	[334.2] I.5750 I.5793 I.5864 I.5934 I.6068 I.6133 I.6197 I.6260 I.6321 I.6381 I.6498 I.6498 I.64556 I.6612 I.6667 I.66722	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2 1231.7 1237.3 1242.8 1248.2 1253.6 1259.0 1264.3 1269.7 1274.9 1280.2 1285.4 1280.2	3.19 3.24 3.29 3.35 3.40 3.45 3.50 3.55 3.60 3.65 3.69 3.74 3.88 3.93 3.98 4.02	[354.8] 1.5744 1.5783 1.5854 1.5992 1.6059 1.6128 1.6250 1.6312 1.6372 1.6431 1.6490 1.6547 1.6603 1.6658 1.6713	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0 1231.6 1237.1 1242.6 1248.1 1253.5 1258.9 1264.2 1269.5 1274.8 1280.1	3.17 3.22 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72 3.76 3.81 3.85 3.90	[335-3] 1.5738 1.5738 1.5738 1.5914 1.5983 1.6049 1.6115 1.6179 1.6241 1.6303 1.6363 1.6422 1.6481 1.6538 1.6594 1.6650 1.6704	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3 1258.7 1264.1 1269.4 1274.7 1280.0
360 370 380 390 400 410 420 430 440 450 450 450 450 500 510 520 530 540	3.24 3.29 3.34 3.40 3.45 3.55 3.60 3.55 3.60 3.75 3.80 3.75 3.80 3.75 3.80 3.84 3.89 3.94 3.99 4.03 4.03 4.13	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6269 1.6330 1.6449 1.6507 1.6564 1.6620 1.6676 1.6678 1.6688 1.6678 1.6889 1.6889	1197.6 1209.3 1215.1 1226.3 1231.9 1237.4 1242.9 1248.4 1253.8 1259.1 1264.5 1269.8 1275.1 1280.3 1285.5 1290.8 1290.8	3.21 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72 3.77 3.82 3.86 3.91 3.96 4.01 4.05 4.10	[334.2] I.5750 I.5793 I.5864 I.5934 I.6002 I.6068 I.6133 I.6133 I.6133 I.6133 I.6260 I.6321 I.6381 I.6440 I.6448 I.64556 I.6612 I.6667 I.6775 I.6828 I.68	1197.4 1203.3 1209.1 1214.9 1226.2 1231.7 1237.3 1242.8 1248.2 1253.6 1259.0 1264.3 1269.7 1274.9 1280.2 1285.4 1290.7 1295.9	3.19 3.24 3.29 3.35 3.40 3.45 3.55 3.60 3.65 3.60 3.65 3.69 3.74 3.79 3.84 3.88 3.93 3.98 4.02 4.07	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5922 1.6059 1.6124 1.6188 1.6250 1.6312 1.6431 1.6490 1.6547 1.6653 1.6658 1.6713 1.6767 1.6820 1.6822	1197.2 1203.1 1208.9 1214.7 1226.4 1231.6 1237.1 1242.6 1248.1 1253.5 1258.9 1264.2 1269.5 1274.8 1280.1 1285.3 1295.8	3.17 3.22 3.27 3.32 3.37 3.42 3.47 3.52 3.47 3.52 3.57 3.62 3.67 3.72 3.76 3.81 3.85 3.90 3.95 4.00 4.04	[335-3] 1.5738 1.5773 1.5844 1.5913 1.6049 1.6115 1.6179 1.6241 1.6303 1.6453 1.6453 1.6594 1.6650 1.6758 1.6650 1.6758 1.6653	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3 1258.7 1264.1 1269.4 1274.7 1280.0 1285.2 1290.5 1295.7
360 370 380 390 410 420 430 440 450 460 470 480 490 510 520 530 540 550	3.24 3.29 3.34 3.40 3.45 3.50 3.55 3.60 3.65 3.70 3.75 3.80 3.84 3.89 3.94 4.03 4.03 4.03 4.13 4.18	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6269 1.6330 1.6390 1.6390 1.6449 1.6574 1.6564 1.6676 1.6676 1.6676 1.6678 1.66837 1.6889 1.6889 1.6940	1197.6 1209.3 1209.3 1215.1 1226.3 1237.4 1242.9 1248.4 1253.8 1259.1 1264.5 1269.8 1275.1 1280.3 1285.5 1290.8 1296.0 1301.1	3.21 3.27 3.32 3.37 3.42 3.47 3.57 3.62 3.67 3.72 3.77 3.82 3.86 3.91 3.96 4.01 4.05 4.10 4.15	[334.2] 1.5750 1.5793 1.5864 1.5934 1.5934 1.6068 1.6133 1.6197 1.6260 1.6321 1.6381 1.6440 1.6556 1.652 1.6667 1.6722 1.6667 1.6828 1.6881 1.6932	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2 1231.7 1242.8 1248.2 1248.2 1253.6 1253.6 1259.0 1264.3 1269.7 1274.9 1280.2 1285.4 1290.7 1295.9 1301.0	3.19 3.24 3.29 3.35 3.40 3.45 3.55 3.60 3.65 3.69 3.74 3.79 3.84 3.88 3.93 3.98 4.02 4.07 4.12	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5992 1.6059 1.6124 1.6188 1.6250 1.6312 1.6372 1.6431 1.6430 1.6547 1.6658 1.6658 1.6773 1.6820 1.6872 1.6872 1.6924	1197.2 1203.1 1208.9 1214.7 1220.4 1226.0 1231.6 1237.1 1242.6 1248.1 1253.5 1258.9 1264.2 1269.5 1274.8 1280.1 1285.3 1290.6 1295.8 1300.9	3.17 3.22 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72 3.76 3.81 3.85 3.90 3.95 4.00 4.04 4.09	[335-3] 1.5738 1.5773 1.5844 1.5914 1.5914 1.5933 1.6049 1.6179 1.6241 1.6303 1.6363 1.6363 1.6422 1.6481 1.6554 1.6554 1.6853 1.6851 1.6863 1.6915	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3 1258.7 1264.1 1269.4 1274.7 1280.0 1285.2 1290.5 1295.7 1300.9
360 370 380 390 400 410 420 430 440 450 450 450 450 500 510 520 530 540	3.24 3.29 3.34 3.40 3.45 3.55 3.60 3.55 3.60 3.75 3.80 3.75 3.80 3.75 3.80 3.84 3.89 3.94 3.99 4.03 4.03 4.13	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6269 1.6330 1.6449 1.6507 1.6564 1.6620 1.6676 1.6678 1.6688 1.6678 1.6889 1.6889	1197.6 1209.3 1215.1 1226.3 1231.9 1237.4 1242.9 1248.4 1253.8 1259.1 1264.5 1269.8 1275.1 1280.3 1285.5 1290.8 1290.8	3.21 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72 3.77 3.82 3.86 3.91 3.96 4.01 4.05 4.10	[334.2] I.5750 I.5793 I.5864 I.5934 I.6002 I.6068 I.6133 I.6133 I.6133 I.6133 I.6260 I.6321 I.6381 I.6440 I.6448 I.64556 I.6612 I.6667 I.6775 I.6828 I.68	1197.4 1203.3 1209.1 1214.9 1226.2 1231.7 1237.3 1242.8 1248.2 1253.6 1259.0 1264.3 1269.7 1274.9 1280.2 1285.4 1290.7 1295.9	3.19 3.24 3.29 3.35 3.40 3.45 3.55 3.60 3.65 3.60 3.65 3.69 3.74 3.79 3.84 3.88 3.93 3.98 4.02 4.07	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5922 1.6059 1.6124 1.6188 1.6250 1.6312 1.6431 1.6490 1.6547 1.6653 1.6658 1.6713 1.6767 1.6820 1.6822	1197.2 1203.1 1208.9 1214.7 1226.4 1231.6 1237.1 1242.6 1248.1 1253.5 1258.9 1264.2 1269.5 1274.8 1280.1 1285.3 1295.8	3.17 3.22 3.27 3.32 3.37 3.42 3.47 3.52 3.47 3.52 3.57 3.62 3.67 3.72 3.76 3.81 3.85 3.90 3.95 4.00 4.04	[335-3] 1.5738 1.5773 1.5844 1.5913 1.6049 1.6115 1.6179 1.6241 1.6303 1.6453 1.6453 1.6594 1.6650 1.6758 1.6650 1.6758 1.6653	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3 1258.7 1264.1 1269.4 1274.7 1280.0 1285.2 1290.5 1295.7
360 370 380 390 410 420 430 440 450 460 470 480 490 510 510 530 530 540 550 600 650 700	3.24 3.29 3.34 3.40 3.45 3.50 3.55 3.60 3.65 3.70 3.75 3.80 3.84 3.89 3.94 3.99 4.03 4.08 4.13 4.18 4.40 4.63 4.85	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6269 1.6330 1.6390 1.6449 1.6507 1.6564 1.6620 1.6676 1.6730 1.6784 1.6837 1.6889 1.6889 1.6940 1.7189 1.7424	1197.6 1203.5 1209.3 1215.1 1220.7 1226.3 1231.9 1237.4 1242.9 1248.4 1253.8 1259.1 1264.5 1259.8 1275.1 1280.3 1285.5 1296.0 1301.1 1326.8 1352.3 1377.7	3.21 3.27 3.37 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72 3.77 3.82 3.86 3.91 3.96 4.05 4.10 4.15 4.15 4.60 4.82	[334.2] 1.5750 1.5793 1.5864 1.5934 1.6002 1.6068 1.6133 1.6197 1.6260 1.6321 1.6381 1.6440 1.6498 1.6556 1.6612 1.6667 1.6722 1.6667 1.6722 1.6667 1.6828 1.6828 1.6832 1.7181 1.7416 1.7440	1197.4 1203.3 1209.1 1214.9 1220.6 1226.2 1231.7 1237.3 1242.8 1248.2 1253.6 1259.0 1264.3 1269.7 1274.9 1280.2 1285.4 1290.7 1295.9 1301.0 1326.8 1352.2 1377.6	3.19 3.24 3.29 3.35 3.40 3.45 3.55 3.50 3.55 3.60 3.65 3.69 3.74 3.79 3.84 3.88 3.93 3.98 4.02 4.07 4.12 4.34 4.56 4.78	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5924 1.6128 1.6250 1.6312 1.6372 1.6431 1.6490 1.6547 1.6603 1.6658 1.6713 1.6658 1.6767 1.6820 1.6820 1.6822 1.6924 1.7173 1.7408	1197.2 1203.1 1208.9 1214.7 1220.4 1231.6 1231.6 1237.1 1242.6 1248.1 1253.5 1258.9 1264.2 1269.5 1274.8 1280.1 1285.3 1290.6 1295.8 1300.9 1326.7 1352.2 1377.6	3.17 3.22 3.27 3.32 3.37 3.42 3.47 3.52 3.47 3.52 3.57 3.62 3.67 3.72 3.76 3.81 3.85 3.90 3.95 4.00 4.04 4.09 4.31 4.53 4.75	[335-3] 1.5738 1.5773 1.5844 1.5913 1.5983 1.6049 1.6115 1.6179 1.6241 1.6303 1.6363 1.6422 1.6481 1.6538 1.6594 1.6650 1.6758 1.6758 1.6813 1.6853 1.6915 1.7164 1.7460	1197.0 1202.9 1208.7 1214.5 1220.2 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3 1258.7 1264.1 1269.4 1274.7 1280.0 1285.2 1290.5 1290.5 1295.7 1300.9 1326.6 1352.1 1377.5
360 370 380 390 410 420 430 440 450 460 470 480 490 500 520 530 540 550 600 650	3.24 3.29 3.34 3.40 3.45 3.55 3.60 3.65 3.70 3.75 3.80 3.89 3.94 3.99 4.03 4.13 4.18 4.40 4.63	[333.6] 1.5756 1.5803 1.5874 1.5943 1.6011 1.6078 1.6143 1.6207 1.6269 1.6330 1.6330 1.6390 1.6449 1.6507 1.6564 1.6620 1.6676 1.6784 1.6837 1.6889 1.6889 1.6940 1.7189 1.7424	1197.6 1203.5 1209.3 1215.1 1220.7 1226.3 1231.9 1237.4 1242.9 1248.4 1253.8 1259.1 1264.5 1269.8 1275.1 1280.3 1285.5 1290.8 1290.0 1301.1 1326.8 1352.3	3.21 3.27 3.32 3.37 3.42 3.47 3.52 3.57 3.62 3.67 3.72 3.77 3.82 3.86 3.91 3.96 4.01 4.05 4.10 4.15 4.37	[334.2] 1.5750 1.5793 1.5864 1.5934 1.5934 1.6068 1.6133 1.6197 1.6260 1.6321 1.6381 1.6498 1.6498 1.6556 1.6612 1.6667 1.6725 1.6725 1.6828 1.6881 1.6932 1.7181 1.7416	1197.4 1203.3 1209.1 1214.9 1226.2 1231.7 1237.3 1242.8 1248.2 1253.6 1259.0 1264.3 1269.7 1274.9 1285.4 1290.7 1295.9 1301.0 1326.8 1352.2	3.19 3.24 3.29 3.35 3.40 3.45 3.50 3.55 3.60 3.65 3.69 3.74 3.79 3.84 3.88 3.93 3.98 4.02 4.07 4.12 4.34 4.56	[354.8] 1.5744 1.5783 1.5854 1.5924 1.5922 1.6059 1.6124 1.6188 1.6250 1.6312 1.6372 1.6431 1.6490 1.6547 1.6603 1.6565 1.6713 1.6658 1.6773 1.6820 1.6820 1.6872 1.6924 1.7173 1.748	1197.2 1203.1 1208.9 1214.7 1226.0 1231.6 1237.1 1242.6 1237.1 1242.6 1237.1 1242.6 1237.1 1242.6 1253.5 1258.9 1264.2 1269.5 1274.8 1285.3 1285.3 1290.6 1295.8 1300.9 1326.7 1352.2	3.17 3.22 3.27 3.32 3.37 3.42 3.47 3.52 3.47 3.52 3.57 3.62 3.67 3.72 3.76 3.81 3.85 3.90 3.95 4.00 4.04 4.09 4.31 4.53	[335-3] 1.5738 1.5773 1.5844 1.5914 1.5983 1.6049 1.6115 1.6179 1.6241 1.6303 1.6363 1.6422 1.6481 1.6538 1.6594 1.6650 1.6758 1.6813 1.6863 1.6915 1.7164	1197.0 1202.9 1208.7 1214.5 1225.8 1231.4 1237.0 1242.5 1247.9 1253.3 1258.7 1264.1 1269.4 1274.7 1280.0 1285.2 1290.5 1295.7 1300.9 1326.6 1352.1

Pres- sure		161 [364.1]			162 [364.6]	F . 4.,		163 [365.1]	113		164 [365.6]	20.51
Temp °F.	v	S	i	v	s	i	v	s	i	v	s	i
Sat.	2.82	1.5643	1195.8	2.81	1.5638	1195.8	2.79	1.5633	1195.9	2.77	1.5627	1196.0
370	2.85	1.5687	1199.3	2.83	1.5678	1199.1	2.81	1.5669	1198.9	2.79	1.5660	1198.7
380	2.90	1.5759	1205.3	2.88	1.5750	1205.1 1211.1	2.86	1.5741 1.5812	1204.9	2.84	I.5732 I.5803	1204.7 1210.7
390	2.95		Ĭ									
400 410	2.99 3.04	1.5897	1217.I 1222.9	2.97	1.5889	1216.9	2.95	1.5880	1216.7	2.93	1.5872 1.5939	1216.6
420	3.04	1.6030	1228.6	3.02	1.6021	1228.4	3.04	1.6013	1228.3	3.02	1.6005	1228.1
430	3.13	1.6094	1234.3	3.11	1.6086	1234.1	3.09	1.6077	1234.0	3.07	1.6069	1233.8
440	3.17	1.6157	1239.9	3.15	1.6148	1239.8	3.13	1.6140	1239.6	3.11	1.6132	1239.4
450	3.22	1.6218	1245.5	3.20	1.6210	1245.3	3.18	1.6202	1245.2	3.16	1.6194	1245.0
460	3.26	1.6279	1251.0	3.24	1.6271 1.6330	1250.9	3.22	1.6263	1250.7 1256.2	3.20	1.6255	1250.6
470 480	3.31 3.35	1.6396	1256.5	3.28	1.6388	1250.4	3.26 3.31	1.6322	1250.2	3.24 3.29	1.6373	1250.1
490	3.39	1.6453	1267.4	3.33	1.6446	1267.2	3.35	1.6438	1267.1	3.33	1.6430	1267.0
500	3.43	1.6510	1272.7	3.41	1.6502	1272.6	3.39	1.6494	1272.5	3.37	1.6487	1272.4
510	3.48	1.6565	1278.1	3.45	1.6558	1278.0	3.43	1.6550	1277.9	3.41	1.6542	1277.8
520	3.52	1.6620	1283.4	3.50	1.6612	1283.3	3.48	1.6605	1283.2	3.45	1.6597	1283.1
530 540	3.56 3.60	1.6674	1288.7 1294.0	3.54 3.58	1.6666	1288.6 1293.9	3.52 3.56	1.6659 1.6712	1288.5 1293.8	3.49 3.53	1.6651	1288.4
550												
600	3.64	1.6779	1299.3 1325.3	3.62 3.82	1.6772	1299.2 1325.2	3.60 3.80	1.6764 1.7016	1299.1 1325.1	$3.57 \\ 3.77$	1.6757	1299.0 1325.1
650	4.05	1.7269	1325.5	4.02	1.7261	13251.0	4.00	1.7254	1350.9	3.97	1.7247	1350.9
700	4.24	1.7494	1376.6	4.21	1.7487	1376.6	4.19	1.7480	1376.5	4.16	1.7473	1376.5
750	4.44	1.7710	1402.2	4.41	1.7703	1402.1	4.38	1.7695	1402.1	4.35	1.7688	1402.0
800	4.63	1.7917	1427.7	4.60	1.7910	1427.7	4.57	1.7903	1427.6	4.54	1.7896	1427.6
850	4.82	1.8116	1453.3	4.79	1.8109	1453.3	4.76	1.8102	1453.3	4.73	1.8095	1453.2
					1						1	
		165 [366.1]			166 [366.5]			167 [367.0]			168 [367.5]	
Sat.	2.76		1196.1	2.74		1196.2	2.72		1196.2	2.71		1196.3
Sat. 370	2.76 2.78	[366.1]	1196.1 1198.5	2.74	[366.5]	1196.2	2.72	[367.0]	1196.2 1198.1	2.71	[367.5]	1196.3
370 380	2.78 2.82	[366.1] 1.5622 1.5651 1.5723	1198.5 1204.5	2.76 2.81	[366.5] 1.5617 1.5643 1.5715	1198.3 1204.3	2.74 2.79	[367.0] 1.5612 1.5634 1.5706	1198.1 1204.1	2.72	[367.5] 1.5607 1.5625 1.5698	1197.8 1203.9
370	2.78	[366.1] 1.5622 1.5651	1198.5	2.76	[366.5] 1.5617 1.5643	1198.3	2.74	[367.0] 1.5612 1.5634	1198.1	2.72	[367.5] 1.5607 1.5625	1197.8
370 380 390 400	2.78 2.82 2.87 2.92	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5863	1198.5 1204.5 1210.5 1216.4	2.76 2.81 2.85 2.90	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855	1198.3 1204.3 1210.3 1216.2	2.74 2.79 2.83 2.88	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846	1198.1 1204.1 1210.1 1216.0	2.72 2.77 2.81 2.86	[367.5] 1.5607 1.5625 1.5698 1.5769 1.5838	1197.8 1203.9
370 380 390 400 410	2.78 2.82 2.87 2.92 2.96	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5863 1.5931	1198.5 1204.5 1210.5 1216.4 1222.2	2.76 2.81 2.85 2.90 2.94	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5922	1198.3 1204.3 1210.3 1216.2 1222.0	2.74 2.79 2.83 2.88 2.92	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914	1198.1 1204.1 1210.1 1216.0 1221.8	2.72 2.77 2.81 2.86 2.90	[367.5] 1.5607 1.5625 1.5698 1.5769 1.5838 1.5906	1197.8 1203.9 1209.9 1215.8 1221.7
370 380 390 400 410 420	2.78 2.82 2.87 2.92 2.96 3.00	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5863 1.5931 1.5997	1198.5 1204.5 1210.5 1216.4 1222.2 1228.0	2.76 2.81 2.85 2.90 2.94 2.99	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5922 1.5988	1198.3 1204.3 1210.3 1216.2 1222.0 1227.8	2.74 2.79 2.83 2.88 2.92 2.97	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914 1.5980	1198.1 1204.1 1210.1 1216.0 1221.8 1227.6	2.72 2.77 2.81 2.86 2.90 2.95	[367.5] 1.5607 1.5625 1.5698 1.5769 1.5838 1.5906 1.5972	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5
370 380 390 400 410	2.78 2.82 2.87 2.92 2.96	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5863 1.5931	1198.5 1204.5 1210.5 1216.4 1222.2	2.76 2.81 2.85 2.90 2.94	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5922	1198.3 1204.3 1210.3 1216.2 1222.0	2.74 2.79 2.83 2.88 2.92	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914	1198.1 1204.1 1210.1 1216.0 1221.8	2.72 2.77 2.81 2.86 2.90	[367.5] 1.5607 1.5625 1.5698 1.5769 1.5838 1.5906	1197.8 1203.9 1209.9 1215.8 1221.7
370 380 390 400 410 420 430	2.78 2.82 2.87 2.92 2.96 3.00 3.05	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5863 1.5931 1.5997 1.6061	1198.5 1204.5 1210.5 1216.4 1222.2 1228.0 1233.7	2.76 2.81 2.85 2.90 2.94 2.99 3.03	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5922 1.5988 1.6053	1198.3 1204.3 1210.3 1216.2 1222.0 1227.8 1233.5 1239.1	2.74 2.79 2.83 2.88 2.92 2.97 3.01 3.05	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914 1.5980 1.6045	1198.1 1204.1 1210.1 1216.0 1221.8 1227.6 1233.3	2.72 2.77 2.81 2.86 2.90 2.95 2.99	[367.5] 1.5607 1.5625 1.5698 1.5769 1.5838 1.5906 1.5972 1.6037	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5 1233.2
370 380 390 400 410 420 430 440 450 460	2.78 2.82 2.87 2.92 2.96 3.00 3.05 3.09 3.14 3.18	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5863 1.5931 1.5997 1.6061 1.6124 1.6186 1.6247	1198.5 1204.5 1210.5 1216.4 1222.2 1228.0 1233.7 1239.3 1244.9 1250.5	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5922 1.5988 1.6053 1.6116 1.6178 1.6239	1198.3 1204.3 1210.3 1216.2 1222.0 1227.8 1233.5	2.74 2.79 2.83 2.88 2.92 2.97 3.01	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914 1.5980 1.6045 1.608 1.6170 1.6231	1198.1 1204.1 1210.1 1216.0 1221.8 1227.6 1233.3 1239.0	2.72 2.77 2.81 2.90 2.95 2.99 3.03 3.08 3.12	[367:5] 1.5607 1.5625 1.5698 1.5769 1.5838 1.5906 1.5972 1.6037 1.6100 1.6162 1.6223	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5 1233.2 1238.8 1244.4 1250.0
370 380 390 400 410 420 430 440 450 460 470	2.78 2.82 2.87 2.92 2.96 3.00 3.05 3.09 3.14 3.18 3.22	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5863 1.5991 1.6061 1.6124 1.6186 1.6247 1.6306	1198.5 1204.5 1210.5 1216.4 1222.2 1228.0 1233.7 1239.3 1244.9 1250.5 1256.0	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5922 1.5988 1.6053 1.6116 1.6178 1.6239 1.6298	1198.3 1204.3 1210.3 1216.2 1222.0 1227.8 1233.5 1239.1 1244.7 1250.3 1255.8	2.74 2.79 2.83 2.88 2.92 2.97 3.01 3.05 3.10 3.14 3.18	[367.0] 1.5612 1.5634 1.5776 1.5777 1.5846 1.5914 1.5980 1.6045 1.6170 1.6231 1.6291	1198.1 1204.1 1210.1 1216.0 1221.8 1227.6 1233.3 1239.0 1244.6 1250.2 1255.7	2.72 2.77 2.81 2.86 2.90 2.95 2.99 3.03 3.03 3.08 3.12 3.16	[367:5] 1.5625 1.5625 1.5698 1.5769 1.5838 1.5962 1.6377 1.6100 1.6162 1.6223 1.6283	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5 1233.2 1238.8 1244.4 1250.0 1255.6
370 380 390 400 410 420 430 440 450 460 470 480	2.78 2.82 2.87 2.96 3.00 3.05 3.09 3.14 3.18 3.22 3.26	[366.1] 1.5652 1.5651 1.5723 1.5794 1.5863 1.5931 1.5997 1.6061 1.6124 1.6186 1.6247 1.6366 1.6365	1198.5 1204.5 1210.5 1216.4 1222.2 1228.0 1233.7 1239.3 1244.9 1250.5 1256.0 1261.4	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20 3.24	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5982 1.6053 1.6116 1.6178 1.6239 1.6238 1.6238 1.6235	1198.3 1204.3 1210.3 1216.2 1222.0 1227.8 1233.5 1239.1 1244.7 1250.3 1255.8 1261.3	2.74 2.79 2.83 2.88 2.92 2.97 3.01 3.05 3.10 3.14 3.18 3.22	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914 1.5980 1.6045 1.6045 1.6108 1.6170 1.6231 1.6231 1.6234	1198.1 1204.1 1210.1 1216.0 1221.8 1227.6 1233.3 1239.0 1244.6 1250.2 1255.7 1261.2	2.72 2.77 2.81 2.86 2.90 2.95 2.99 3.03 3.08 3.12 3.16 3.20	[367:5] 1.5607 1.5625 1.5698 1.5769 1.5838 1.5906 1.5929 1.6037 1.6100 1.6162 1.6223 1.6283 1.6342	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5 1233.2 1238.8 1244.4 1250.0 1255.6 1261.1
370 380 390 400 410 420 430 440 450 460 460 470 480 490	2.78 2.82 2.87 2.96 3.00 3.05 3.09 3.14 3.18 3.22 3.26 3.31	$\begin{bmatrix} 366.1 \end{bmatrix}$ 1.5622 1.5651 1.5723 1.5794 1.5937 1.5997 1.6061 1.6124 1.6186 1.6247 1.61366 1.6365 1.6365 1.6422	1198.5 1204.5 1210.5 1216.4 1222.2 1228.0 1233.7 1239.3 1244.9 1250.5 1256.0 1261.4 1266.9	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20 3.24 3.29	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5922 1.5928 1.6053 1.6116 1.6178 1.6239 1.6298 1.6357 1.6414	1198.3 1204.3 1210.3 1216.2 1222.0 1227.8 1233.5 1239.1 1244.7 1250.3 1255.8 1261.3 1266.8	2.74 2.79 2.83 2.92 2.97 3.01 3.05 3.10 3.14 3.12 3.26	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914 1.5980 1.6045 1.6170 1.6231 1.6291 1.6349 1.6407	1198.1 1204.1 1210.1 1216.0 1221.8 1227.6 1233.3 1239.0 1244.6 1250.2 1255.7 1261.2 1266.6	2.72 2.77 2.81 2.86 2.90 2.95 2.99 3.03 3.08 3.12 3.16 3.20 3.24	[367:5] 1.5607 1.5625 1.5698 1.5769 1.5936 1.5936 1.5972 1.6037 1.6102 1.6122 1.6283 1.6283 1.6342 1.6399	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5 1233.2 1238.8 1244.4 1250.0 1255.6 1261.1 1266.5
370 380 390 410 420 430 440 450 450 450 450 480 490 500	2.78 2.82 2.87 2.92 2.96 3.00 3.05 3.09 3.14 3.18 3.22 3.26 3.31 3.35	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5863 1.5997 1.6061 1.6124 1.6186 1.6247 1.6366 1.6365 1.6422 1.6479	1198.5 1204.5 1210.5 1210.5 1216.4 1222.2 1228.0 1233.7 1239.3 1244.9 1250.5 1256.0 1261.4 1266.9 1272.3	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20 3.24 3.29 3.33	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5928 1.6553 1.6116 1.6178 1.6239 1.6298 1.6357 1.6414 1.6471	1198.3 1204.3 1210.3 1216.2 1222.0 1227.8 1233.5 1233.1 1244.7 1250.3 1255.8 1261.3 1266.8 1272.2	2.74 2.79 2.83 2.88 2.92 2.97 3.01 3.05 3.10 3.14 3.18 3.22 3.26 3.30	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914 1.5984 1.6170 1.6231 1.6291 1.6349 1.6407 1.6464	1198.1 1204.1 1210.1 1216.0 1221.8 1227.6 1233.3 1239.0 1244.6 1250.2 1255.7 1261.2 1266.6 1272.0	2.72 2.77 2.81 2.86 2.90 2.95 2.99 3.03 3.08 3.12 3.16 3.20 3.24 3.28	[367:5] 1.5625 1.5628 1.5769 1.5838 1.5976 1.6377 1.6162 1.6223 1.6283 1.6283 1.6342 1.6342 1.6345	1197.8 1203.9 1209.9 1215.8 1221.7 1233.2 1233.8 1244.4 1250.0 1255.6 1261.1 1266.5 1271.9
370 380 390 400 410 420 430 440 450 460 460 450 460 450 480 490 510	2.78 2.82 2.87 2.92 2.96 3.00 3.05 3.09 3.14 3.18 3.22 3.26 3.31 3.35 3.39	[366.1] 1.5652 1.5651 1.5793 1.5794 1.5863 1.5931 1.5997 1.6261 1.6124 1.6186 1.6247 1.6365 1.6322 1.6422 1.6479 1.6535	1198.5 1204.5 1210.5 1216.4 1222.2 1228.0 1233.7 1239.3 1239.3 1250.5 1256.0 1261.4 1266.9 1272.3 1277.6	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20 3.24 3.29 3.33 3.37	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5922 1.5983 1.6053 1.6116 1.6178 1.6239 1.6239 1.6298 1.6357 1.6414 1.6471 1.6471 1.6527	1198.3 1204.3 1210.3 1216.2 1222.0 1227.8 1233.5 1239.1 1244.7 1255.8 1255.8 1261.3 1266.8 1272.2 1277.5	2.74 2.79 2.83 2.88 2.92 2.97 3.01 3.05 3.10 3.14 3.18 3.22 3.26 3.30 3.35	[367.0] 1.5612 1.5634 1.5777 1.5846 1.5974 1.5984 1.608 1.6170 1.6231 1.6291 1.6349 1.6407 1.6464 1.6519	1198.1 1204.1 1210.1 1210.1 1221.8 1227.6 1233.3 1239.0 1244.6 1255.7 1255.7 1261.2 1255.7 1266.6 1272.0 1277.4	2.72 2.77 2.81 2.86 2.99 3.03 3.08 3.12 3.16 3.20 3.24 3.28 3.33	[367:5] 1.5627 1.5625 1.5698 1.5769 1.5838 1.5906 1.5972 1.6037 1.6100 1.6102 1.6223 1.6283 1.6283 1.6342 1.6399 1.6456 1.6512	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5 1233.2 1238.8 1244.4 1250.0 1255.6 1261.1 1266.5 1271.9 1277.3
370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520	2.78 2.82 2.87 2.92 2.96 3.05 3.09 3.14 3.18 3.22 3.26 3.31 3.35 3.39 3.43	[366.1] 1.5652 1.5651 1.5723 1.5794 1.5863 1.5931 1.5997 1.6061 1.6124 1.6186 1.6247 1.6306 1.6365 1.6422 1.6479 1.6535 1.6589	1198.5 1204.5 1210.5 1216.4 1222.2 1228.0 1233.7 1239.3 1244.9 1250.5 1256.0 1261.4 1266.9 1272.3 1277.6 1283.0	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20 3.24 3.29 3.33 3.37 3.41	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5922 1.5988 1.6053 1.6178 1.6178 1.6239 1.6239 1.6357 1.6414 1.6471 1.6527 1.6582	1198.3 1204.3 1210.3 1216.2 1222.0 1227.8 1233.5 1233.5 1233.5 1235.8 1255.8 1255.8 1261.3 1266.8 1272.2 1277.5 1282.9	2.74 2.79 2.83 2.92 2.97 3.01 3.05 3.10 3.14 3.18 3.22 3.26 3.30 3.35 3.39	[367.0] 1.5632 1.5634 1.5776 1.5777 1.5846 1.5914 1.5980 1.6045 1.6170 1.6231 1.6231 1.6231 1.6349 1.6407 1.6464 1.6519 1.6574	1198.1 1204.1 1210.1 1210.1 1221.8 1227.6 1233.3 1233.3 1233.3 1233.3 1235.7 1261.2 1255.7 1261.2 1266.6 1272.0 1277.4 1282.8	2.72 2.77 2.81 2.86 2.90 2.95 2.99 3.03 3.08 3.12 3.16 3.20 3.24 3.28 3.33 3.37	[367:5] 1.5607 1.5625 1.5698 1.5769 1.5838 1.5906 1.5972 1.6037 1.6102 1.6162 1.6283 1.6342 1.6399 1.64566 1.6512 1.6567	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5 1233.2 1238.8 1244.4 1250.0 1255.6 1255.6 1261.1 1266.5 1271.9 1277.3 1282.7
370 380 390 400 410 420 430 440 450 460 460 470 480 490 500 510	2.78 2.82 2.87 2.92 2.96 3.00 3.05 3.09 3.14 3.18 3.22 3.26 3.31 3.35 3.39	[366.1] 1.5652 1.5651 1.5793 1.5794 1.5863 1.5931 1.5997 1.6261 1.6124 1.6186 1.6247 1.6365 1.6322 1.6422 1.6479 1.6535	1198.5 1204.5 1210.5 1216.4 1222.2 1228.0 1233.7 1239.3 1239.3 1250.5 1256.0 1261.4 1266.9 1272.3 1277.6	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20 3.24 3.29 3.33 3.37	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5855 1.5922 1.5983 1.6053 1.6116 1.6178 1.6239 1.6239 1.6298 1.6357 1.6414 1.6471 1.6471 1.6527	1198.3 1204.3 1210.3 1216.2 1222.0 1227.8 1233.5 1239.1 1244.7 1255.8 1255.8 1261.3 1266.8 1272.2 1277.5	2.74 2.79 2.83 2.88 2.92 2.97 3.01 3.05 3.10 3.14 3.18 3.22 3.26 3.30 3.35	[367.0] 1.5612 1.5634 1.5777 1.5846 1.5974 1.5984 1.608 1.6170 1.6231 1.6291 1.6349 1.6407 1.6464 1.6519	1198.1 1204.1 1210.1 1210.1 1221.8 1227.6 1233.3 1239.0 1244.6 1255.7 1255.7 1261.2 1255.7 1266.6 1272.0 1277.4	2.72 2.77 2.81 2.86 2.99 3.03 3.08 3.12 3.16 3.20 3.24 3.28 3.33	[367:5] 1.5627 1.5625 1.5698 1.5769 1.5838 1.5906 1.5972 1.6037 1.6100 1.6102 1.6223 1.6283 1.6283 1.6342 1.6399 1.6456 1.6512	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5 1233.2 1238.8 1244.4 1250.0 1255.6 1261.1 1266.5 1271.9 1277.3
370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550	2.78 2.82 2.87 2.92 2.96 3.00 3.05 3.09 3.14 3.18 3.22 3.26 3.31 3.35 3.39 3.43 3.47 3.51 3.55	[366.1] 1.5652 1.5651 1.5723 1.5794 1.5863 1.5937 1.6967 1.6124 1.6124 1.6186 1.6247 1.6365 1.6325 1.6422 1.6479 1.6535 1.6589 1.6643 1.6697 1.6749	1198.5 1204.5 1210.5 1210.5 1210.5 1228.0 1228.0 1233.7 1239.3 1239.3 1250.5 1256.0 1261.4 1266.9 1272.3 1277.6 1283.0 1272.3 1277.6 1283.0 1293.6 1293.6	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20 3.24 3.29 3.33 3.37 3.41 3.45	[366.5] 1.5617 1.5643 1.5786 1.5786 1.5988 1.6988 1.6053 1.6116 1.6178 1.6239 1.6239 1.6248 1.6357 1.6414 1.6471 1.6527 1.6582 1.6636 1.6689 1.6742	1198.3 1204.3 1210.3 1210.3 1222.0 1227.8 1233.5 1239.1 1244.7 1255.8 1261.3 1266.8 1272.2 1277.5 1282.9 1288.2 1293.5 1298.8	2.74 2.79 2.83 2.92 2.97 3.01 3.05 3.10 3.14 3.18 3.22 3.26 3.30 3.35 3.39 3.43	[367.0] 1.5612 1.5634 1.5777 1.5846 1.5974 1.5945 1.608 1.608 1.6170 1.6231 1.6291 1.6349 1.6407 1.6404 1.6404 1.6574 1.6682 1.6682 1.6734	1198.1 1204.1 1210.1 1210.1 1221.8 1227.6 1233.3 1239.0 1244.6 1255.7 1261.2 1255.7 1261.2 1255.7 1266.6 1272.0 1277.4 1282.8 1288.1 1293.4 1293.4	2.72 2.77 2.81 2.86 2.90 2.95 2.99 3.03 3.08 3.12 3.16 3.20 3.24 3.28 3.33 3.37 3.41 3.45 3.49	[367:5] 1.5625 1.5625 1.5698 1.5769 1.5838 1.5906 1.5972 1.6037 1.6100 1.6102 1.6223 1.6283 1.6283 1.6342 1.6399 1.6456 1.6572 1.6674 1.66727	1197.8 1203.9 1209.9 1215.8 1221.7 1223.2 1233.2 1238.8 1244.4 1250.0 1255.6 1261.1 1266.5 1271.9 1277.3 1282.7 1288.0 1293.3 1298.6
370 380 390 410 410 430 440 450 450 460 470 480 490 500 510 520 530 540 550 600	2.78 2.82 2.87 2.92 2.96 3.05 3.09 3.14 3.18 3.22 3.31 3.35 3.39 3.43 3.47 3.51 3.55 3.75	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5997 1.5997 1.6061 1.6124 1.6186 1.6247 1.6386 1.6325 1.6479 1.6535 1.6543 1.6643 1.6697 1.6749 1.7002	1198.5 1204.5 1210.5 1210.5 1210.5 1220.2 1222.2 1228.0 1233.7 1239.3 1244.9 1256.0 1261.4 1266.9 1272.3 1277.6 1283.0 1277.6 1283.0 1228.3 1293.6 1293.6	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20 3.24 3.29 3.33 3.37 3.41 3.45 3.49 3.53 3.73	[366.5] 1.5617 1.5643 1.5715 1.5785 1.5922 1.5988 1.6053 1.6116 1.6178 1.6239 1.6239 1.6298 1.6239 1.6414 1.64711 1.6572 1.65272 1.6636 1.6689 1.6742 1.6994	1198.3 1204.3 1210.3 1210.2 1222.0 1227.8 1233.5 1233.5 1233.5 1255.8 1255.8 1261.3 1266.8 1272.2 1277.5 1282.9 1288.2 1293.5 1298.8 1324.9	2.74 2.79 2.83 2.92 2.97 3.01 3.05 3.10 3.14 3.18 3.22 3.26 3.30 3.35 3.39 3.43 3.47 3.51 3.70	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914 1.5988 1.6045 1.6170 1.6231 1.6231 1.6349 1.6349 1.6464 1.65194 1.6528 1.6682 1.6734 1.6987	1198.1 1204.1 1210.1 1210.1 1210.1 1221.8 1227.6 1233.3 1233.3 1233.3 1233.3 1233.3 1235.7 1261.2 1266.6 1272.0 1277.4 1282.8 1288.1 1293.4 1293.4	2.72 2.77 2.81 2.86 2.90 2.95 2.99 3.03 3.08 3.16 3.20 3.24 3.28 3.33 3.37 3.41 3.45 3.49 3.68	[367:5] 1.5607 1.5625 1.5693 1.5769 1.5976 1.5976 1.5976 1.5972 1.6037 1.6102 1.6223 1.6283 1.6283 1.63426 1.6521 1.6527 1.6674 1.6727 1.6980	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5 1233.8 1238.8 1244.4 1250.0 1255.6 1261.1 1266.5 1271.9 1277.3 1282.7 1288.0 1293.3 1298.6 1324.8
370 380 390 410 420 430 440 450 460 470 480 490 500 520 530 540 550 600 650	2.78 2.82 2.87 2.96 3.00 3.05 3.09 3.14 3.18 3.22 3.26 3.31 3.35 3.39 3.43 3.43 3.47 3.51 3.55 3.75 3.95	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5863 1.5997 1.6061 1.6124 1.6186 1.6247 1.6306 1.6365 1.6422 1.6479 1.6535 1.6543 1.6697 1.6749 1.7240	1198.5 1204.5 1210.5 1210.5 1216.4 1222.2 1233.7 1239.3 1244.9 1250.5 1256.0 1261.4 1266.9 1272.3 1272.3 1277.3 1277.6 1288.3 1293.6 1288.3 1293.6 1298.9 1325.0 1350.8	2.76 2.81 2.85 2.90 2.94 2.94 3.03 3.07 3.12 3.16 3.20 3.24 3.29 3.33 3.37 3.41 3.45 3.49 3.53 3.73 3.92	[366.5] 1.5617 1.5643 1.5715 1.5785 1.5922 1.5988 1.6053 1.6116 1.6178 1.6239 1.6298 1.6239 1.6298 1.6357 1.6414 1.6471 1.6527 1.6526 1.6636 1.6689 1.6639 1.66394 1.6094 1.7232	1198.3 1204.3 1210.3 1210.3 1216.2 1222.0 1227.8 1233.5 1233.5 1233.5 1255.8 1255.8 1255.8 1255.8 1261.3 1266.8 1272.2 1277.5 1282.2 1293.5 1288.2 1293.5 1298.8 1324.9 1325.7	2.74 2.79 2.83 2.88 2.92 2.97 3.01 3.05 3.10 3.14 3.18 3.22 3.26 3.30 3.35 3.39 3.43 3.43 3.47 3.51 3.70 3.90	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914 1.5980 1.6045 1.6108 1.6170 1.6231 1.6291 1.6349 1.6407 1.6464 1.6579 1.6628 1.66528 1.6682 1.6632 1.6734 1.6632 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6632 1.6734 1.6725 1.6734 1.6725 1.6734 1.6725 1.6734 1.6725 1.6734 1.6725 1.6734 1.6725 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7255 1.7555 1.7255 1.7555 1.7555 1.7555 1.75555 1.75555 1.75555 1.75555 1.755555 1.755555 1.7555555555 1.7555555555555555555555555555	1198.1 1204.1 1210.1 1210.1 1216.0 1221.8 1227.6 1233.3 1239.0 1244.6 1250.2 1255.7 1261.2 1255.7 1261.6 1272.0 1272.0 1272.0 1277.4 1282.8 1288.1 1293.4 1293.4 1298.7 1324.8 1320.7	2.72 2.77 2.81 2.86 2.99 2.99 3.03 3.08 3.12 3.16 3.20 3.24 3.28 3.33 3.37 3.41 3.45 3.49 3.68 3.87	[367:5] 1.5607 1.5625 1.5698 1.5769 1.5838 1.5906 1.6972 1.6037 1.6102 1.6223 1.6283 1.6342 1.6399 1.6456 1.6552 1.65512 1.6654 1.6654 1.6674 1.6727 1.6980 1.7218	1197.8 1203.9 1209.9 1215.8 1221.7 1227.5 1233.2 1238.8 1244.4 1250.0 1255.6 1261.1 1266.5 1271.9 1277.3 1282.7 1282.7 1282.7 1282.7 1282.6 1324.8 1329.3
370 380 390 410 410 430 440 450 450 460 470 480 490 500 510 520 530 540 550 600	2.78 2.82 2.87 2.92 2.96 3.05 3.09 3.14 3.18 3.22 3.31 3.35 3.39 3.43 3.47 3.51 3.55 3.75	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5997 1.5997 1.6061 1.6124 1.6186 1.6247 1.6386 1.6325 1.6479 1.6535 1.6543 1.6643 1.6697 1.6749 1.7002	1198.5 1204.5 1210.5 1210.5 1210.5 1220.2 1222.2 1228.0 1233.7 1239.3 1244.9 1256.0 1261.4 1266.9 1272.3 1277.6 1283.0 1277.6 1283.0 1228.3 1293.6 1293.6	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20 3.24 3.29 3.33 3.37 3.41 3.45 3.49 3.53 3.73	[366.5] 1.5617 1.5643 1.5715 1.5785 1.5922 1.5988 1.6053 1.6116 1.6178 1.6239 1.6239 1.6298 1.6239 1.6414 1.64711 1.6572 1.65272 1.6636 1.6689 1.6742 1.6994	1198.3 1204.3 1210.3 1210.2 1222.0 1227.8 1233.5 1233.5 1233.5 1255.8 1255.8 1261.3 1266.8 1272.2 1277.5 1282.9 1288.2 1293.5 1298.8 1324.9	2.74 2.79 2.83 2.92 2.97 3.01 3.05 3.10 3.14 3.18 3.22 3.26 3.30 3.35 3.39 3.43 3.47 3.51 3.70	[367.0] 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914 1.5988 1.6045 1.6170 1.6231 1.6231 1.6349 1.6464 1.65194 1.6574 1.6628 1.6682 1.6734 1.6987	1198.1 1204.1 1210.1 1210.1 1221.8 1227.6 1233.3 1239.0 1244.6 1255.7 1261.2 1266.6 1272.0 1277.4 1282.8 1288.1 1293.4 1293.4	2.72 2.77 2.81 2.86 2.90 2.95 2.99 3.03 3.08 3.16 3.20 3.24 3.28 3.33 3.37 3.41 3.45 3.49 3.68	[367:5] 1.5607 1.5625 1.5693 1.5769 1.5976 1.5976 1.5977 1.6037 1.6102 1.6122 1.6223 1.6283 1.63426 1.6521 1.6521 1.65456 1.6527 1.6674 1.6747 1.6980	1197.8 1203.9 1209.9 1215.8 1221.7 1223.2 1238.8 1244.4 1250.0 1255.6 1261.1 1266.5 1271.9 1277.3 1282.7 1288.0 1293.3 1298.6 1324.8
370 380 390 400 420 430 440 450 450 450 450 500 510 520 530 540 550 600 650 700	2.78 2.82 2.87 2.92 2.96 3.05 3.09 3.14 3.18 3.22 3.26 3.31 3.35 3.39 3.43 3.47 3.51 3.55 3.75 3.95 4.14 4.33	$\begin{bmatrix} 366.1 \end{bmatrix}$ 1.5622 1.5651 1.5723 1.5794 1.5937 1.5997 1.6061 1.6124 1.6186 1.6247 1.6386 1.6325 1.6479 1.6535 1.6535 1.6643 1.6697 1.6749 1.7022 1.7240 1.7466 1.7682	1198.5 1204.5 1210.5 1210.5 1210.5 1220.2 1228.0 1233.7 1239.3 1239.3 1250.5 1250.5 1250.5 1250.5 1261.4 1266.9 1272.3 1277.6 1283.0 1277.6 1283.0 1272.3 1277.6 1283.0 1272.3 1293.6 1293.6 1350.8 1350.8 1376.4 1402.0	2.76 2.81 2.85 2.90 2.94 2.99 3.03 3.07 3.12 3.16 3.20 3.24 3.29 3.33 3.37 3.41 3.45 3.49 3.53 3.73 3.92 4.11 4.30	[366.5] 1.5617 1.5643 1.5715 1.5785 1.5922 1.5988 1.6053 1.6116 1.6178 1.6239 1.6239 1.6298 1.6239 1.6239 1.6414 1.6471 1.6572 1.6522 1.6636 1.6689 1.6742 1.6994 1.7232 1.7438 1.7674	1198.3 1204.3 1210.3 1210.3 1210.2 1222.0 1227.8 1233.5 1239.1 1244.7 1255.8 1255.8 1261.3 1266.8 1272.2 1277.5 1282.9 1288.2 1293.5 1298.8 1324.9 1350.7 1376.4 1401.9	2.74 2.79 2.83 2.92 2.97 3.05 3.10 3.14 3.18 3.22 3.26 3.30 3.35 3.39 3.43 3.47 3.51 3.70 3.90 4.09 4.28	$\begin{bmatrix} 367.0 \end{bmatrix}$ 1.5612 1.5634 1.5706 1.5777 1.5846 1.5914 1.5980 1.6045 1.6170 1.6231 1.6231 1.6349 1.6447 1.6549 1.6447 1.6519 1.6574 1.6628 1.6682 1.6734 1.6987 1.7225 1.7451 1.7667	1198.1 1204.1 1210.1 1210.1 1210.1 1221.8 1227.6 1233.3 1233.3 1233.3 1233.3 1233.3 1244.6 1255.7 12	2.72 2.77 2.81 2.86 2.90 2.95 2.99 3.03 3.08 3.12 3.16 3.20 3.24 3.28 3.33 3.37 3.41 3.45 3.49 3.68 3.87 4.06 4.25	[367:5] 1.5607 1.5625 1.5693 1.5769 1.5976 1.5976 1.5977 1.6037 1.6102 1.6223 1.6283 1.6283 1.63429 1.6456 1.6512 1.6527 1.6654 1.6527 1.6674 1.6727 1.6980 1.7218 1.7444 1.7444 1.7444	1197.8 1203.9 1209.9 1215.8 1221.7 1223.2 1233.2 1238.8 1244.4 1250.0 1255.6 12
370 380 390 410 420 430 440 450 460 470 480 490 500 520 520 530 540 550 600 650 700 750	2.78 2.82 2.87 2.92 3.00 3.05 3.09 3.14 3.18 3.22 3.26 3.31 3.35 3.39 3.43 3.43 3.43 3.51 3.55 3.75 3.95 4.14	[366.1] 1.5622 1.5651 1.5723 1.5794 1.5863 1.5997 1.6061 1.6124 1.6186 1.6247 1.6366 1.6365 1.6422 1.6479 1.6535 1.6589 1.6643 1.6679 1.65749 1.6749 1.7246	1198.5 1204.5 1210.5 1210.5 1216.4 1222.2 1233.7 1239.3 1244.9 1250.5 1256.0 1261.4 1266.9 1272.3 1277.6 1283.0 1272.3 1277.6 1283.0 1288.9 1325.0 1350.8 1350.8 1350.4	2.76 2.81 2.85 2.90 2.94 2.94 3.03 3.07 3.12 3.16 3.20 3.24 3.29 3.33 3.37 3.41 3.45 3.49 3.53 3.73 3.92 4.11	[366.5] 1.5617 1.5643 1.5715 1.5786 1.5922 1.5928 1.6533 1.6116 1.6178 1.6239 1.6298 1.6357 1.6414 1.6471 1.6527 1.6636 1.6636 1.6689 1.6742 1.66742 1.66742 1.6742 1.7232	1198.3 1204.3 1210.3 1210.3 1216.2 1222.0 1227.8 1233.5 1233.5 1233.1 1244.7 1255.8 1255.8 1261.3 1266.8 1272.2 1277.5 1282.9 1288.2 1293.5 1298.8 1324.9 1326.4	2.74 2.79 2.83 2.88 2.92 2.97 3.01 3.05 3.10 3.14 3.18 3.22 3.26 3.30 3.43 3.43 3.447 3.51 3.70 3.90 4.09	[367.0] 1.5612 1.5634 1.5776 1.5777 1.5846 1.5914 1.5986 1.6170 1.6231 1.6291 1.6349 1.6407 1.6464 1.6519 1.6574 1.6682 1.66734 1.66734 1.6734 1.6734 1.7225 1.7451	1198.1 120.1 1210.1 1210.1 1210.1 1210.1 1233.3 1239.0 1244.6 1250.2 1255.7 1261.2 1255.7 1266.6 1272.0 1277.4 1282.8 1282.8 1289.7 1324.8 1329.4	2.72 2.77 2.81 2.86 2.99 3.03 3.08 3.12 3.16 3.20 3.24 3.28 3.33 3.37 3.41 3.45 3.49 3.68 3.87 4.06	[367:5] 1.5625 1.5628 1.5769 1.5838 1.5906 1.5972 1.6337 1.6100 1.6162 1.6223 1.6283 1.6283 1.6342 1.6342 1.6512 1.66512 1.6657 1.6674 1.6727 1.6928 1.7228 1.7444	1197.8 1203.9 1209.9 1215.8 1227.5 1233.2 1233.8 1244.4 1250.0 1255.6 1261.1 1266.5 1271.9 1277.3 1282.7 1288.0 1298.6 1324.8 1350.6 1324.8 1350.6 1350.5

Pres- sure		169 [368.0]			170 [368.5]			171 [369.0]			172 [369.4]	
Temp °F.	v	8	i		s	i	v	s	i	v	s	i
Sat.	2.69	1.5602	1196.4	2.68	1.5597	1196.5	2.66	1.5592	1196.6	2.65	1.5587	1196.6
370	2.70	1.5617	1197.6	2.69	1.5608	1197.4	2.67	1.5599	1197.2	2.65	1.5591	1197.0
380 390	2.75	1.5689	I 203.7 I 209.7	2.73	1.5681 1.5752	I 203.5 I 209.5	2.71	1.5672	I 203.3 I 209.3	2.70	1.5664	1203.1
									1209.3	2.74	1.5735	1209.1
400 410	2.84 2.88	1.5830	1215.6	2.82	1.5821 1.5889	I2I5.4 I22I.3	2.80	1.5813 1.5881	1215.2 1221.1	2.79	1.5805	1215.1
420	2.93	1.5964	1221.5	2.91	1.5956	1227.1	2.89	1.5948	1226.9	2.87	1.5873	1221.0
430	2.97	1.6029	1233.0	2.95	1.6021	1232.8	2.93	1.6013	1232.7	2.92	1.6005	1232.5
440	3.02	1.6092	1238.7	3.00	1.6084	1238.5	2.98	1.6076	1238.4	2.96	1.6068	1238.2
450	3.06	1.6154	1244.3	3.04	1.6146	1244.2	3.02	1.6139	1244.0	3.00	1.6131	1243.9
460	3.10 3.14	1.6215	1249.9	3.08	1.6207 1.6267	1249.8	3.06	1.6200	1249.6	3.04	1.6192	1249.5
470 480	3.14	1.6334	1255.4	3.12	1.6326	1255.3 1260.8	3.10	1.6318	1255.2 1260.7	3.08 3.12	1.6252	1255.0 1260.5
490	3.22	1.6392	1266.4	3.20	1.6384	1266.3	3.18	1.6376	1266.1	3.16	1.6369	1266.0
500	3.26	1.6448	1271.8	3.24	1.6441	1271.7	3.22	1.6433	1271.6	3.20	1.6426	1271.5
510	3.31	1.6504	1277.2	3.29	1.6497	1277.1	3.27	1.6489	1277.0	3.25	1.6482	1276.9
520	3.35	1.6559	1282.6	3.33	1.6552	1282.5	3.31	1.6544	1282.3	3.29	1.6537	1282.2
530 540	3.39	1.6613	1287.9 1293.2	3.37 3.41	1.6606 1.6660	1287.8 1293.1	3.35 3.38	1.6599	1287.7 1293.0	3.33	1.6591	1287.6 1292.9
	3.43			3.41		1293.1	3.30	1.0052	1293.0	3.36	1.0045	1292.9
550	3.47	1.6720	1298.5	3.45	1.6712	1298.4	3.42	1.6705	1298.3	3.40	1.6698	1298.2
600 650	$3.66 \\ 3.85$	1.6973	1324.7 1350.5	3.64 3.83	1.6966 1.7204	1324.6	3.62 3.81	1.6958	1324.5 1350.4	3.59 3.78	1.6951	1324.4
700	4.04	1.7437	1376.2	4.02	1.7431	1376.2	3.99	1.7424	1376.1	3.97	1.7417	1376.1
750	4.22	1.7653	1401.8	4.20	1.7647	1401.8	4.17	1.7640	1401.7	4.15	1.7633	1401.7
800	4.4I	1.7861	1427.4	4.38	1.7854	1427.4	4.36	1.7848	1427.3	4.33	1.7841	1427.3
850	4.59	1.8061	1453.1	4.56	1.8054	1453.1	4.54	1.8048	1453.0	4.51	1.8041	1453.0
-			1	1		-			1		1	
		173 [369.9]			174 [370.4]			175 [370.8]			176 [371.3]	
Sat.	2.63		1196.7	2.62		1196.8	2.61		1196.9	2.59		1196.9
		[369.9] 1.5582			[370.4] 1.5577	, i i i i i i i i i i i i i i i i i i i		[370.8] 1.5572			[371.3] 1.5567	
Sat. 380 390	2.63 2.68 2.73	[369.9]	1196.7 1202.9 1208.9	2.62 2.66 2.71	[370.4]	1196.8 1202.7 1208.7	2.61 2.65 2.69	[370.8]	1196.9 1202.5 1208.5	2.59 2.63 2.67	[371.3]	1196.9 1202.3 1208.3
380	2.68 2.73	[369.9] 1.5582 1.5656 1.5727	1202.9 1208.9	2.66 2.71	[370.4] 1.5577 1.5647 1.5719	1202.7 1208.7	2.65 2.69	[370.8] 1.5572 1.5639 1.5711	1202.5 1208.5	2.63 2.67	[371.3] 1.5567 1.5631 1.5703	1202.3 1208.3
380 390	2.68 2.73 2.77 2.81	[369.9] 1.5582 1.5656	1202.9	2.66	[370.4] 1.5577 1.5647	1202.7 1208.7 1214.7 1220.6	2.65	[370.8] 1.5572 1.5639	1202.5	2.63	[371.3] 1.5567 1.5631	1202.3
380 390 400 410 420	2.68 2.73 2.77 2.81 2.86	[369.9] 1.5582 1.5656 1.5727 1.5797 1.5865 1.5932	1202.9 1208.9 1214.9 1220.8 1226.6	2.66 2.71 2.75 2.79 2.84	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5857 1.5924	1202.7 1208.7 1214.7 1220.6 1226.4	2.65 2.69 2.74 2.78 2.82	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5849 1.5916	1202.5 1208.5 1214.5 1220.4 1226.3	2.63 2.67 2.72 2.76 2.80	[371.3] 1.5567 1.5631 1.5703 1.5773 1.5841 1.5908	1202.3 1208.3 1214.3 1220.2 1226.1
380 390 400 410 420 430	2.68 2.73 2.77 2.81 2.86 2.90	[369.9] 1.5582 1.5656 1.5727 1.5797 1.5865 1.5932 1.5997	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4	2.66 2.71 2.75 2.79 2.84 2.88	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5857 1.5924 1.5989	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2	2.65 2.69 2.74 2.78 2.82 2.86	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5849 1.5916 1.5981	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0	2.63 2.67 2.72 2.76 2.80 2.85	[371.3] 1.5567 1.5631 1.5703 1.5773 1.5841 1.5908 1.5973	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9
380 390 400 410 420 430 430 440	2.68 2.73 2.77 2.81 2.86	[369.9] 1.5582 1.5656 1.5727 1.5797 1.5865 1.5932 1.5932 1.5997 1.6061	1202.9 1208.9 1214.9 1220.8 1226.6	2.66 2.71 2.75 2.79 2.84	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5857 1.5924 1.5989 1.6053	1202.7 1208.7 1214.7 1220.6 1226.4	2.65 2.69 2.74 2.78 2.82	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5849 1.5916 1.5981 1.6045	1202.5 1208.5 1214.5 1220.4 1226.3	2.63 2.67 2.72 2.76 2.80	[371.3] 1.5567 1.5631 1.5773 1.5773 1.5841 1.5908 1.5973 1.6037	1202.3 1208.3 1214.3 1220.2 1226.1
380 390 400 410 420 430 440 450	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98	[369.9] 1.5582 1.5656 1.5727 1.5797 1.5865 1.5932 1.5997 1.6061 1.6123	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5857 1.5924 1.5989 1.6053 1.6115	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6	2.65 2.69 2.74 2.78 2.82 2.86 2.91 2.95	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5849 1.5916 1.5981 1.6045 1.6108	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93	[371.3] 1.5567 1.5631 1.5773 1.5773 1.5841 1.5908 1.5973 1.6037 1.6100	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9 1237.6 1243.3
380 390 400 410 420 430 440 450 460	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02	[369.9] 1.5582 1.5656 1.5727 1.5797 1.5865 1.5932 1.5997 1.6061 1.6123 1.6184	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7 1249.3	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5857 1.5924 1.5989 1.6053 1.6115 1.6177	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1249.2	2.65 2.69 2.74 2.78 2.82 2.86 2.91 2.95 2.99	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5781 1.5916 1.5981 1.6045 1.6108 1.6109	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.93	[371.3] 1.5567 1.5631 1.5703 1.5773 1.5841 1.5908 1.5973 1.6037 1.6100 1.6102	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9 1237.6 1243.3 1248.9
380 390 400 410 420 430 440 450 460 470	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02 3.06	[369.9] I.5582 I.5656 I.5727 I.5797 I.5865 I.5932 I.5997 I.6061 I.6123 I.6124 I.6245	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7 1249.3 1254.9	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00 3.05	[370.4] I.5577 I.5647 I.5719 I.5857 I.5924 I.5989 I.6053 I.6115 I.6117 I.6237	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1249.2 1254.8	2.65 2.69 2.74 2.78 2.82 2.86 2.91 2.95 2.99 3.03	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5916 1.5981 1.6045 1.6108 1.6169 1.6230	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0 1254.6	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.97 3.01	[371.3] 1.5567 1.5631 1.5703 1.5773 1.5841 1.5908 1.5973 1.6037 1.6100 1.6162 1.6222	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9 1237.6 1243.3 1248.9 1254.5
380 390 400 410 420 430 440 450 460	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02	[369.9] 1.5582 1.5656 1.5727 1.5797 1.5865 1.5932 1.5997 1.6061 1.6123 1.6184	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7 1249.3	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5857 1.5924 1.5989 1.6053 1.6115 1.6177	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1249.2	2.65 2.69 2.74 2.78 2.82 2.86 2.91 2.95 2.99	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5781 1.5916 1.5981 1.6045 1.6108 1.6109	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.93	[371.3] 1.5567 1.5631 1.5703 1.5773 1.5841 1.5908 1.5973 1.6037 1.6100 1.6102	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9 1237.6 1243.3 1248.9
380 390 400 410 420 430 440 450 460 470 480	2.68 2.73 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11 3.15	[369.9] I.5582 I.5656 I.5727 I.5797 I.5865 I.5932 I.5997 I.66123 I.6123 I.6184 I.6245 I.6304	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7 1249.3 1254.9 1260.4 1265.9	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.05 3.05 3.09 3.13	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5924 1.5924 1.6053 1.6053 1.6155 1.6177 1.6237 1.6236	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1249.2 1254.8 1260.3	2.65 2.69 2.74 2.78 2.82 2.86 2.91 2.95 2.99 3.03 3.07 3.11	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5981 1.5981 1.5981 1.6045 1.6168 1.6168 1.6230 1.6289	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0 1254.6 1260.1	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.93 2.93 3.01 3.05 3.09	[371:3] I.5567 I.5631 I.5703 I.5773 I.5841 I.5908 I.5973 I.6037 I.6100 I.6162 I.6222 I.6281 I.6339	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9 1237.6 1243.3 1248.9 1254.5 1260.0
380 390 400 410 420 430 440 450 460 470 480 490	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11	[369.9] I.5582 I.5656 I.5727 I.5797 I.5865 I.5932 I.5997 I.6061 I.6123 I.6184 I.61245 I.6304 I.6304	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7 1249.3 1254.9 1260.4	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00 3.05 3.09	[370.4] I.5577 I.5647 I.5719 I.5789 I.5857 I.5924 I.5989 I.60533 I.6115 I.6177 I.6237 I.6296 I.6354	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1249.2 1254.8 1260.3 1265.8	2.65 2.69 2.74 2.78 2.82 2.86 2.91 2.95 2.99 3.03 3.07	[370.8] I.5572 I.5639 I.5711 I.5781 I.5981 I.5981 I.6045 I.6108 I.6169 I.6230 I.6289 I.6347	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0 1254.6 1260.1 1265.6	2.63 2.67 2.76 2.80 2.85 2.89 2.93 2.97 3.01 3.05	[371:3] 1.5567 1.5631 1.5703 1.5773 1.5841 1.5908 1.5973 1.6037 1.6100 1.6102 1.6222 1.6281	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5
380 390 410 410 420 430 440 440 460 470 480 490 500 510 520	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02 3.66 3.11 3.15 3.19 3.23 3.27	[369.9] I.5582 I.5656 I.5727 I.5797 I.5865 I.5932 I.5997 I.6061 I.6123 I.6124 I.6245 I.6304 I.6304 I.6304 I.6304 I.6304 I.6305 I.6305 I.6305 I.6419 I.6475 I.6530	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1232.1 1243.7 1249.3 1254.9 1260.4 1265.9 1271.3 1276.7 1282.1	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00 3.05 3.09 3.13 3.17 3.21 3.25	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5924 1.5929 1.60533 1.6115 1.6177 1.6223 1.62354 1.6411 1.6467 1.6523	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1249.2 1254.8 1260.3 1265.8 1271.2 1276.6 12282.0	2.65 2.69 2.74 2.78 2.82 2.91 2.95 2.99 3.03 3.07 3.11 3.15 3.19 3.23	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5916 1.5981 1.6045 1.6168 1.6168 1.6230 1.6230 1.6247 1.6347 1.6404 1.6450 1.6515	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0 1254.6 1254.6 1260.1 1265.6 1271.1 1276.5 1281.9	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.93 2.93 3.01 3.05 3.09 3.13 3.17 3.21	[371:3] 1.5567 1.5631 1.5703 1.5773 1.5841 1.5908 1.5973 1.6037 1.6100 1.6122 1.6222 1.6281 1.6339 1.6339 1.6453 1.558	1202.3 1208.3 1214.3 1220.2 1226.1 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5 1271.0 1276.4 1281.8
380 390 410 420 430 440 450 460 470 480 490 500 510 520 530	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11 3.15 3.19 3.23 3.27 3.31	[369.9] I.5582 I.5656 I.5727 I.5797 I.5865 I.5932 I.5997 I.6061 I.6123 I.6123 I.6184 I.6245 I.6304 I.6302 I.6419 I.6475 I.6530 I.6584	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7 1249.3 1254.9 1260.4 1265.9 1271.3 1276.7 1282.1 1287.5	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00 3.05 3.09 3.13 3.17 3.21 3.25 3.29	[370.4] I.5577 I.5647 I.5719 I.5789 I.5924 I.5989 I.60533 I.6115 I.6177 I.6296 I.6354 I.6411 I.6457 I.6577	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1243.6 1249.2 1254.8 1265.8 1265.8 1271.2 1226.8 12276.6 1282.0 1282.4	2.65 2.69 2.74 2.78 2.82 2.91 2.95 2.99 3.03 3.07 3.11 3.15 3.19 3.23 3.27	[370.8] 1.5572 1.5539 1.5711 1.5781 1.5981 1.5981 1.6045 1.6108 1.6108 1.6230 1.6230 1.6347 1.6404 1.6404 1.6555 1.6570	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0 1254.6 1260.1 1265.6 1271.1 1276.5 1281.9 1287.3	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.97 3.01 3.05 3.09 3.13 3.17 3.21 3.25	[371:3] 1.5567 1.5631 1.5773 1.5841 1.5968 1.5973 1.6037 1.6100 1.6162 1.6222 1.6281 1.6339 1.6397 1.6588 1.6562	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5 1271.0 1276.4 1281.8 1287.2
380 390 400 410 420 430 440 450 460 470 480 490 510 520 530 530 540	2.68 2.73 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11 3.15 3.19 3.23 3.27 3.31 3.34	[369.9] 1.5582 1.5656 1.5727 1.5797 1.5865 1.5992 1.5997 1.6061 1.6123 1.6184 1.61245 1.6304 1.6362 1.6475 1.6475 1.6530 1.6538 1.6638 1.6638	1202.9 1208.9 1214.9 1220.8 1220.6 1232.4 1238.1 1243.7 1249.3 1254.9 1260.4 1265.9 1271.3 1276.7 1282.1 1287.5 1292.8	2.66 2.71 2.75 2.79 2.84 2.92 2.96 3.00 3.05 3.09 3.13 3.17 3.21 3.25 3.29 3.32	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5924 1.5924 1.6053 1.6115 1.6115 1.6175 1.6296 1.6354 1.6411 1.6467 1.6523 1.6577 1.6631	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1249.2 1254.8 1260.3 1265.8 1271.2 1276.6 1282.0 1287.4 1292.7	2.65 2.69 2.74 2.78 2.82 2.91 2.95 2.99 3.03 3.07 3.11 3.15 3.19 3.23 3.27 3.30	$\begin{bmatrix} 1370.8 \end{bmatrix}$ 1.5572 1.5639 1.5711 1.5781 1.5981 1.5981 1.6045 1.6169 1.6230 1.6289 1.6347 1.6404 1.6404 1.6400 1.6515 1.6570 1.6624	1202.5 1208.5 1214.5 1220.4 1226.3 1237.7 1243.4 1249.0 1254.6 1254.6 1254.6 1260.1 1255.6 1271.1 1276.5 1281.9 1287.3 1292.6	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.97 3.01 3.05 3.09 3.13 3.17 3.21 3.25 3.28	[371:3] 1.5567 1.5631 1.5703 1.5773 1.5908 1.5973 1.6100 1.6162 1.6222 1.6281 1.6339 1.6337 1.6453 1.6508 1.6508 1.6562 1.6616	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5 1271.0 1276.4 1281.8 1287.2 1292.5
380 390 400 410 420 440 440 450 450 450 470 480 490 510 520 530 540 550	2.68 2.73 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11 3.15 3.19 3.23 3.27 3.31 3.34 3.38	[369.9] 1.5582 1.5656 1.5727 1.5797 1.5865 1.5932 1.5997 1.6061 1.6123 1.6123 1.6124 1.6245 1.6304 1.6362 1.6419 1.6475 1.6530 1.6584 1.6693 1.6691	1202.9 1208.9 1214.9 1220.8 1220.6 1232.4 1238.1 1249.3 1254.9 1254.9 1256.9 1271.3 1276.7 1282.1 1287.5 1292.8 1298.1	2.66 2.71 2.75 2.79 2.84 2.92 2.96 3.00 3.05 3.09 3.13 3.17 3.21 3.25 3.29 3.32 3.36	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5924 1.6953 1.6155 1.6177 1.6236 1.6354 1.6411 1.6467 1.6523 1.6577 1.6631 1.6683	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.2 1254.8 1249.2 1254.8 1255.8 1271.2 1256.6 1282.0 1287.4 1292.7 1298.0	2.65 2.69 2.74 2.78 2.82 2.91 2.95 2.99 3.03 3.07 3.11 3.15 3.19 3.23 3.27 3.30 3.34	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5981 1.5981 1.5981 1.6045 1.6169 1.6230 1.6289 1.6247 1.6404 1.64515 1.6575 1.6570 1.6624 1.6676	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1249.0 1254.6 1254.6 1254.6 1255.6 1271.1 1276.5 1281.9 1287.3 1292.6 1297.9	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.93 2.93 3.01 3.05 3.09 3.13 3.17 3.21 3.25 3.28 3.32	[371:3] 1.5567 1.5631 1.5703 1.5773 1.5841 1.5908 1.5973 1.6037 1.61602 1.6222 1.6281 1.6339 1.6339 1.6358 1.6568 1.6562 1.6669	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5 1271.0 1276.4 1281.8 1287.2 1292.5 1297.8
380 390 400 410 420 430 440 450 440 450 470 480 490 500 510 520 530 540 550 600	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11 3.15 3.19 3.23 3.27 3.31 3.34 3.38 3.57	[369.9] I.5582 I.5656 I.5727 I.5797 I.5865 I.5932 I.5997 I.6661 I.6123 I.6124 I.6245 I.6304 I.6304 I.6475 I.6530 I.6584 I.6538 I.6693 I.6691 I.6944	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7 1249.3 1254.9 1260.4 1265.9 1271.3 1276.7 1282.1 1287.5 1292.8 1298.1 1324.4	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00 3.05 3.09 3.13 3.17 3.21 3.25 3.29 3.32 3.32 3.36 3.55	[370.4] I.5577 I.5647 I.5719 I.5789 I.5924 I.5989 I.60533 I.6115 I.6177 I.6237 I.6236 I.6471 I.6457 I.6233 I.6577 I.66631 I.6683 I.6937	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1243.6 1243.6 1254.8 1260.3 1265.8 1271.2 1276.6 1282.0 1282.0 1287.4 1292.7 1298.0 1324.3	2.65 2.69 2.74 2.78 2.82 2.91 2.95 2.99 3.03 3.07 3.11 3.15 3.19 3.23 3.27 3.30 3.34 3.53	[370.8] I.5572 I.5639 I.5711 I.5781 I.5981 I.6045 I.6168 I.6169 I.6230 I.6230 I.6230 I.6247 I.6404 I.6455 I.6575 I.6570 I.6624 I.6676 I.6931	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0 1254.6 1260.1 1260.1 1265.6 1271.1 1276.5 1281.9 1287.3 1292.6 1297.9 1324.2	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.97 3.01 3.05 3.09 3.13 3.17 3.21 3.25 3.28 3.32 3.51	[371:3] 1.5567 1.5631 1.5773 1.5841 1.5908 1.5973 1.6037 1.6100 1.6122 1.6222 1.6281 1.6339 1.6339 1.64533 1.6562 1.6564 1.6669 1.6669 1.6624	1202.3 1208.3 1214.3 1220.2 1226.1 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5 1271.0 1276.4 1281.8 1287.2 1292.5 1297.8 1324.1
380 390 400 410 420 430 440 450 450 480 490 500 510 520 520 520 530 540 550 600 650	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11 3.15 3.19 3.23 3.27 3.31 3.34 3.38 3.57 3.76	[369.9] I.5582 I.5656 I.5727 I.5797 I.5865 I.5932 I.5997 I.6061 I.6123 I.6123 I.6184 I.6245 I.6304 I.6475 I.6538 I.6638 I.6691 I.6944 I.7183	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7 1249.3 1254.9 1260.4 1265.9 1271.3 1276.7 1282.1 1287.5 1292.8 1292.8 1298.1 1324.4 1350.3	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00 3.05 3.09 3.13 3.17 3.21 3.25 3.29 3.32 3.32 3.36 3.55 3.74	[370.4] I.5577 I.5647 I.5719 I.5789 I.5924 I.5989 I.60533 I.6115 I.6177 I.6296 I.6354 I.6411 I.6453 I.6577 I.6531 I.6683 I.6683 I.6683 I.6937 I.7177	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1249.2 1254.8 1265.8 1271.2 1265.8 1271.2 1276.6 1282.0 1282.4 1292.7 1298.0 1324.3 1350.2	2.65 2.69 2.74 2.78 2.82 2.91 2.95 2.99 3.03 3.07 3.11 3.15 3.19 3.23 3.27 3.30 3.34 3.53 3.72	[370.8] I.5572 I.5639 I.5711 I.5781 I.5981 I.6045 I.6108 I.6108 I.6109 I.6230 I.6230 I.6230 I.6244 I.6404 I.6404 I.64515 I.6570 I.6524 I.6676 I.6931 I.7170	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1243.4 1254.6 1256.6 1271.1 1265.6 1271.1 1276.5 1281.9 1287.3 1292.6 1297.9 1324.2 1350.1	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.97 3.01 3.05 3.09 3.13 3.17 3.21 3.25 3.28 3.32 3.51 3.70	[371:3] I.5567 I.5631 I.5773 I.5773 I.5841 I.5908 I.5973 I.6037 I.6100 I.6162 I.6281 I.6281 I.6339 I.6397 I.6453 I.6562 I.6562 I.6669 I.6669 I.66924 I.7163	1202.3 1208.3 1214.3 1220.2 1226.1 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5 1271.0 1276.4 1281.8 1287.2 1292.5 1297.8 1324.1 1350.1
380 390 400 410 420 430 440 450 440 450 470 480 490 500 510 520 530 540 550 600	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11 3.15 3.19 3.23 3.27 3.31 3.34 3.38 3.57	[369.9] I.5582 I.5656 I.5727 I.5797 I.5865 I.5932 I.5997 I.6661 I.6123 I.6124 I.6245 I.6304 I.6304 I.6475 I.6530 I.6584 I.6538 I.6693 I.6691 I.6944	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7 1249.3 1254.9 1260.4 1265.9 1271.3 1276.7 1282.1 1287.5 1292.8 1298.1 1324.4	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00 3.05 3.09 3.13 3.17 3.21 3.25 3.29 3.32 3.32 3.36 3.55	[370.4] I.5577 I.5647 I.5719 I.5789 I.5924 I.5989 I.60533 I.6115 I.6177 I.6237 I.6236 I.6471 I.6457 I.6233 I.6577 I.66631 I.6683 I.6937	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1243.6 1243.6 1254.8 1260.3 1265.8 1271.2 1276.6 1282.0 1282.0 1287.4 1292.7 1298.0 1324.3	2.65 2.69 2.74 2.78 2.82 2.91 2.95 2.99 3.03 3.07 3.11 3.15 3.19 3.23 3.27 3.30 3.34 3.53	[370.8] I.5572 I.5639 I.5711 I.5781 I.5981 I.6045 I.6168 I.6169 I.6230 I.6230 I.6230 I.6247 I.6404 I.6455 I.6575 I.6570 I.6624 I.6676 I.6931	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0 1254.6 1260.1 1260.1 1265.6 1271.1 1276.5 1281.9 1287.3 1292.6 1297.9 1324.2	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.97 3.01 3.05 3.09 3.13 3.17 3.21 3.25 3.28 3.32 3.51	[371:3] 1.5567 1.5631 1.5773 1.5841 1.5908 1.5973 1.6037 1.6100 1.6122 1.6222 1.6281 1.6339 1.6339 1.64533 1.6562 1.6564 1.6669 1.6669 1.6624	1202.3 1208.3 1214.3 1220.2 1226.1 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5 1271.0 1276.4 1281.8 1287.2 1292.5 1297.8 1324.1
380 390 400 410 420 430 440 430 440 450 450 480 490 510 520 530 530 540 550 650 700	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11 3.15 3.19 3.23 3.27 3.31 3.34 3.38 3.57 3.76 3.94 4.13	[369.9] I.5582 I.5656 I.5727 I.5797 I.5865 I.5932 I.5997 I.66123 I.6123 I.6124 I.6245 I.6304 I.6362 I.6419 I.6475 I.6538 I.6584 I.6693 I.6693 I.6694 I.7183 I.7410 I.7627	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1232.4 1243.7 1249.3 1254.9 1254.9 1265.9 1271.3 1276.7 1282.1 1287.5 1292.8 1298.1 1324.4 1350.3 1376.0 1401.6	2.66 2.71 2.75 2.79 2.84 2.92 2.96 3.00 3.00 3.00 3.03 3.13 3.17 3.21 3.25 3.29 3.32 3.36 3.55 3.74 3.92 4.10	[370.4] I.55777 I.5647 I.5719 I.5789 I.5924 I.5989 I.60533 I.6115 I.6177 I.6237 I.6236 I.6233 I.6471 I.6467 I.6523 I.6577 I.6631 I.6683 I.6937 I.7177 I.7403 I.7620	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1243.6 1249.2 1254.8 1260.3 1265.8 1271.2 1276.6 1282.0 1287.4 1292.7 1298.0 1324.3 1350.2 1375.9 1401.6	2.65 2.69 2.74 2.78 2.82 2.91 2.95 2.99 3.03 3.07 3.11 3.15 3.19 3.23 3.27 3.30 3.34 3.53 3.572 3.90	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5981 1.5981 1.6045 1.6169 1.6230 1.6289 1.6347 1.6404 1.6455 1.6575 1.6575 1.6624 1.6676 1.6931 1.7170 1.7197	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0 1254.6 1254.6 1271.1 1265.1 1276.5 1281.9 1287.3 1292.6 1297.9 1324.2 1350.1 1375.9 1401.5	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.93 2.93 2.93 3.07 3.01 3.05 3.09 3.13 3.17 3.21 3.25 3.28 3.32 3.51 3.70 3.88 4.06	[371:3] 1.5567 1.5631 1.5773 1.5841 1.5908 1.5973 1.6037 1.6160 1.6160 1.6222 1.6281 1.6339 1.6339 1.6358 1.6562 1.6669 1.6669 1.6669 1.6694 1.7163 1.7390 1.7607	1202.3 1208.3 1214.3 1220.2 1226.1 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5 1271.0 1276.4 1281.8 1287.2 1292.5 1292.5 1297.8 1324.1 1350.1 1375.8 1401.5
380 390 400 410 420 430 440 450 460 470 480 490 510 520 530 540 550 600 650 700 750	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11 3.15 3.09 3.23 3.27 3.31 3.34 3.34 3.38 3.57 3.76 3.94	[369.9] 1.5582 1.5656 1.5727 1.5797 1.5865 1.5992 1.5997 1.5997 1.5997 1.6245 1.6245 1.6184 1.6245 1.6304 1.6475 1.6530 1.6538 1.6691 1.6691 1.6694 1.7183 1.7410	1202.9 1208.9 1214.9 1220.8 1220.6 1232.4 1238.1 1243.7 1249.3 1254.9 1254.9 1254.9 1254.9 1256.4 1265.9 1271.3 1276.7 1282.5 1292.8 1292.8 1292.8 1292.8 1292.8 1292.8 1292.8	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00 3.05 3.09 3.13 3.17 3.21 3.25 3.32 3.32 3.36 3.35 3.74 3.92	[370.4] 1.5577 1.5647 1.5719 1.5789 1.5989 1.5989 1.6053 1.6115 1.6177 1.6237 1.6236 1.6411 1.6467 1.6453 1.6533 1.6633 1.6683 1.6683 1.6683 1.6937 1.7177 1.7403 1.7520 1.7828 1.8028	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1249.2 1254.8 1260.3 1254.8 1260.3 1254.8 1265.8 1271.2 1276.6 1282.0 1287.4 1292.7 1298.0 1324.3 1350.2 1375.9 1401.6 1427.2 1452.9	2.65 2.69 2.74 2.78 2.82 2.91 2.95 2.99 3.03 3.07 3.11 3.15 3.19 3.23 3.27 3.30 3.34 3.54 3.54 3.57 2.90 4.08 4.26	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5981 1.5981 1.6045 1.6169 1.6230 1.6289 1.6245 1.6169 1.6230 1.6289 1.6347 1.6404 1.64555 1.6555 1.6575 1.6624 1.6676 1.6931 1.7170 1.7397 1.7613 1.7821 1.8221	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0 1254.6 1260.1 1254.6 1260.1 1254.6 1265.6 1271.1 1276.5 1281.9 1287.3 1292.6 1297.9 1324.2 1350.1 1375.9	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.97 3.01 3.05 3.09 3.13 3.17 3.21 3.25 3.28 3.32 3.32 3.51 3.70 3.88	[371:3] 1.5567 1.5631 1.5773 1.5773 1.5941 1.5973 1.6037 1.6162 1.6162 1.6222 1.6281 1.6339 1.6397 1.6453 1.6558 1.6562 1.6669 1.6669 1.7663 1.7763 1.7730 1.7785 1.8015	1202.3 1208.3 1214.3 1220.2 1226.1 1231.9 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5 1271.0 1276.4 1281.8 1287.2 1292.5 1297.8 1324.1 1350.1 1375.8
380 390 400 410 420 430 440 450 460 470 480 490 510 520 530 540 550 600 650 700 750 800	2.68 2.73 2.77 2.81 2.86 2.90 2.94 2.98 3.02 3.06 3.11 3.15 3.19 3.23 3.27 3.31 3.34 3.38 3.57 3.76 3.94 4.13 4.31	[369.9] I.5582 I.5656 I.5727 I.5797 I.5865 I.5932 I.5997 I.66123 I.6123 I.6124 I.6123 I.6184 I.6245 I.6304 I.6362 I.6538 I.6538 I.6691 I.6944 I.7183 I.7410 I.7627 I.7834	1202.9 1208.9 1214.9 1220.8 1226.6 1232.4 1238.1 1243.7 1249.3 1254.9 1260.4 1265.9 1271.3 1276.7 1282.1 1287.5 1292.8 1298.1 1324.4 1350.3 1376.0 1401.6 1427.3	2.66 2.71 2.75 2.79 2.84 2.88 2.92 2.96 3.00 3.05 3.09 3.13 3.17 3.21 3.25 3.29 3.32 3.36 3.55 3.74 3.92 4.10 4.28	[370.4] 1.5577 1.5647 1.5789 1.5789 1.59857 1.59289 1.60533 1.6115 1.6117 1.6237 1.6236 1.62467 1.6237 1.64411 1.6467 1.6523 1.6631 1.6683 1.6683 1.6683 1.6937 1.7177 1.7403 1.7728	1202.7 1208.7 1214.7 1220.6 1226.4 1232.2 1237.9 1243.6 1243.6 1243.6 1254.8 1254.8 1255.8 1271.2 1256.8 1271.2 1226.6 1282.0 1282.4 1292.7 1298.0 1324.3 1350.2 1375.9 1401.6 1427.2	2.65 2.69 2.74 2.78 2.82 2.91 2.95 2.99 3.03 3.07 3.11 3.15 3.19 3.23 3.27 3.30 3.34 3.53 3.72 3.90 4.08 4.26	[370.8] 1.5572 1.5639 1.5711 1.5781 1.5916 1.5931 1.6045 1.6169 1.6230 1.6230 1.6289 1.6347 1.6404 1.6460 1.6575 1.6570 1.6676 1.66931 1.7170 1.7170 1.7170 1.7173 1.7821	1202.5 1208.5 1214.5 1220.4 1226.3 1232.0 1237.7 1243.4 1249.0 1254.6 1260.1 1265.6 1271.1 1276.5 1281.9 1287.3 1292.6 1297.9 1324.2 1350.1 1375.9 1401.5 1427.2	2.63 2.67 2.72 2.76 2.80 2.85 2.89 2.93 2.97 3.01 3.05 3.09 3.13 3.17 3.21 3.25 3.28 3.32 3.51 3.70 3.88 4.06 4.23	[371:3] I.5567 I.5631 I.5773 I.5841 I.5908 I.5973 I.6037 I.6100 I.6162 I.6222 I.6281 I.6339 I.6339 I.6397 I.64533 I.6562 I.6562 I.6669 I.6659 I.6624 I.7163 I.7390 I.7815	1202.3 1208.3 1214.3 1220.2 1226.1 1237.6 1243.3 1248.9 1254.5 1260.0 1265.5 1271.0 1276.4 1281.8 1287.2 1292.5 1297.8 1324.1 1350.1 1375.8 1401.5 1427.1

sure		177 [371.8]			178 [372.2]			179 [372.7]			180 [373.1]	
Temp °F.	v	s	i	v	s	i	V	s	i	v	s	i
Sat.	2.58	1.5562	1197.0	2.56	1.5557	1197.1	2.55	1.5552	1197.2	2.54	1.5547	1197.2
380 390	2.62 2.66	1.5623 1.5695	1202.1 1208.1	2.60 2.64	1.5614 1.5686	1201.9 1207.9	2.58 2.62	1.5606 1.5678	1201.7 1207.8	2.57 2.61	1.5598 1.5670	1201.4 1207.6
400 410	2.70 2.74	1.5765	1214.1 1220.1	2.68	1.5757	1213.9 1219.9	2.67 2.71	1.5749	1213.8 1219.7	2.65	1.5741	1213.6
420	2.79	1.5900	1225.9	2.77	1.5892	1225.8	2.75	1.5884	1225.6	2.74	1.5877	1225.4
430 440	2.83 2.87	1.5966 1.6030	1231.7 1237.4	2.81 2.85	1.5958 1.6022	1231.5 1237.3	2.79 2.84	1.5950 1.6014	1231.4 1237.1	2.78 2.82	1.5943 1.6007	1231.2 1237.0
450	2.91	1.6093	1243.1	2.89	1.6085	1243.0	2.88	1.6077	1242.8	2.86	1.6070	1242.7
460 470	2.95 2.99	1.6155	1248.8 1254.4	2.93	1.6147	1248.6 1254.2	2.92 2.96	1.6139	1248.5 1254.1	2.90 2.94	1.6132	1248.3
480	3.03	1.6274	1259.9	3.01	1.6266	1259.8	3.00	1.6259	1259.6	2.94	1.6252	1259.5
490	3.07	1.6332	1265.4	3.05	1.6325	1265.3	3.04	1.6318	1265.1	3.02	1.6310	1265.0
500	3.11	1.6390	1270.9	3.09	1.6382	1270.7	3.07	1.6375	1270.6	3.06	1.6368	1270.5
510	3.15 3.19	1.6446 1.6501	1276.3	3.13 3.17	1.6438 1.6494	1276.2 1281.6	3.11	1.6431 1.6487	1276.1 1281.5	3.10	1.6424	1275.9
520 530	3.23	1.6556	1281.7 1287.1	3.21	1.6548	1287.0	3.15 3.19	1.6541	1286.9	3.I3 3.I7	1.6534	1281.4 1286.8
540	3.27	1.6610	1292.4	3.25	1.6602	1292.3	3.23	1.6595	1292.2	3.21	1.6588	1292.1
550	3.30	1.6663	1297.7	3.29	1.6655	1297.6	3.27	1.6648	1297.5	3.25	1.6641	1297.4
600	3.49	1.6917	1324.1	3.47	1.6910	1324.0	3.45	1.6903	1323.9	3.43	1.6896	1323.8
650 700	3.67 3.85	1.7157 1.7384	1350.0 1375.8	3.65 3.83	1.7150 1.7377	1349.9	3.63 3.81	1.7143	1349.9	3.61	1.7136 1.7364	1349.8
750	4.03	1.7601	1375.0	4.01	1.7594	1375.7 1401.4	3.99	1.7370 1.7587	1375.7 1401.4	3.79 3.96	1.7581	1375.6 1401.3
800	4.21	1.7809	1427.1	4.18	1.7802	1427.1	4.16	1.7795	1427.0	4.14	1.7789	1427.0
850	4.38	1.8009	1452.8	4.36	1.8002	1452.8	4.33	1.7995	1452.8	4.31	1.7989	1452.7
900	4.66	1.8202	1478.7	4.63	1.8195	1478.6	4.51	1.8189	1478.6	4.49	1.8183	1478.6
		181 [373.6]			182 [374.0]			183 [374-5]			184 [374-9]	
Sat.	2.52		1197.3	2.51		1197.4	2.50		1197.4	2.48		1197.5
Sat. 380 390	2.52 2.55 2.59	[373.6]	1197.3 1201.2 1207.3	2.51 2.54 2.58	[374.0]	1197.4 1201.0 1207.1	2.50 2.52 2.56	[374.5]	1197.4 1200.8 1207.0	2.48 2.50 2.55	[374-9]	1197.5 1200.6 1206.8
380	2.55	[373.6] 1.5542 1.5590	1201.2	2.54	[374.0] 1.5538 1.5582	1201.0	2.52	[374-5] 1.5533 1.5574	1200.8	2.50	[374.9] 1.5528 1.5566	1200.6
380 390 400 410	2.55 2.59 2.64 2.68	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802	1201.2 1207.3 1213.4 1219.3	2.54 2.58 2.62 2.66	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794	1201.0 1207.1 1213.2 1219.2	2.52 2.56 2.60 2.65	[374-5] 1.5533 1.5574 1.5646 1.5717 1.5786	1200.8 1207.0 1213.0 1219.0	2.50 2.55 2.59 2.63	[374-9] 1.5528 1.5566 1.5639 1.5710 1.5779	1200.6 1206.8 1212.8 1218.8
380 390 400 410 420	2.55 2.59 2.64 2.68 2.72	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5869	1201.2 1207.3 1213.4 1219.3 1225.2	2.54 2.58 2.62 2.66 2.70	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5861	1201.0 1207.1 1213.2 1219.2 1225.1	2.52 2.56 2.60 2.65 2.69	[374-5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5854	1200.8 1207.0 1213.0 1219.0 1224.9	2.50 2.55 2.59 2.63 2.67	[374-9] 1.5528 1.5566 1.5639 1.5710 1.5779 1.5846	1200.6 1206.8 1212.8 1218.8 1224.7
380 390 400 410	2.55 2.59 2.64 2.68	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802	1201.2 1207.3 1213.4 1219.3	2.54 2.58 2.62 2.66	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794	1201.0 1207.1 1213.2 1219.2	2.52 2.56 2.60 2.65	[374-5] 1.5533 1.5574 1.5646 1.5717 1.5786	1200.8 1207.0 1213.0 1219.0	2.50 2.55 2.59 2.63	[374-9] 1.5528 1.5566 1.5639 1.5710 1.5779	1200.6 1206.8 1212.8 1218.8
380 390 400 410 420 430	2.55 2.59 2.64 2.68 2.72 2.76	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5869 1.5935	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1	2.54 2.58 2.62 2.66 2.70 2.75	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5861 1.5927	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9	2.52 2.56 2.60 2.65 2.69 2.73	[374-5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5854 1.5920	1200.8 1207.0 1213.0 1219.0 1224.9 1230.7	2.50 2.55 2.63 2.67 2.71	[374-9] 1.5528 1.5566 1.5639 1.5710 1.5779 1.5846 1.5912	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6
380 390 400 410 420 430 440 450 460	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5869 1.5935 1.5999 1.6063 1.6125	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1242.5 1248.2	2.54 2.58 2.62 2.66 2.70 2.75 2.79 2.83 2.83	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5861 1.5927 1.5992 1.6055 1.6117	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1	2.52 2.56 2.60 2.65 2.69 2.73 2.77 2.81 2.85	[374-5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5854 1.5920 1.5984 1.6048 1.6110	1200.8 1207.0 1213.0 1219.0 1224.9 1230.7 1236.5 1242.2 1247.9	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83	[374-9] 1.5528 1.5566 1.5639 1.5710 1.5779 1.5846 1.5912 1.5977 1.6040 1.6102	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1247.8
380 390 400 410 420 430 440 450 460 470	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88 2.92	[373.6] I.5542 I.5590 I.5662 I.5733 I.5802 I.5802 I.5869 I.5935 I.5999 I.6063 I.6125 I.6185	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1248.2 1253.8	2.54 2.58 2.66 2.70 2.75 2.79 2.83 2.87 2.91	[374.0] I.5538 I.5538 I.5554 I.5725 I.5794 I.5861 I.5927 I.5992 I.6055 I.6117 I.6178	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1 1253.7	2.52 2.56 2.60 2.65 2.69 2.73 2.77 2.81 2.85 2.89	[374:5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5854 1.5920 1.5984 1.6048 1.6110 1.6171	1200.8 1207.0 1213.0 1219.0 1224.9 1230.7 1236.5 1242.2 1247.9 1253.5	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83 2.87	[374.9] 1.5528 1.5566 1.5639 1.5770 1.5846 1.5912 1.5977 1.6040 1.6102 1.6163	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1247.8 1253.4
380 390 400 410 420 430 440 450 460	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5869 1.5935 1.5999 1.6063 1.6125	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1242.5 1248.2	2.54 2.58 2.62 2.66 2.70 2.75 2.79 2.83 2.83	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5861 1.5927 1.5992 1.6055 1.6117	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1	2.52 2.56 2.60 2.65 2.69 2.73 2.77 2.81 2.85	[374-5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5854 1.5920 1.5984 1.6048 1.6110	1200.8 1207.0 1213.0 1219.0 1224.9 1230.7 1236.5 1242.2 1247.9	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83	[374-9] 1.5528 1.5566 1.5639 1.5710 1.5779 1.5846 1.5912 1.5977 1.6040 1.6102	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1247.8
380 390 400 410 420 430 440 450 460 470 480	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88 2.92 2.96 3.00	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5869 1.5935 1.5999 1.6063 1.6125 1.6185 1.6245 1.6303	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1248.2 1253.8 1253.8 1259.4	2.54 2.58 2.66 2.70 2.75 2.79 2.83 2.87 2.91 2.94 2.98	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5861 1.5927 1.5992 1.6055 1.6117 1.6178 1.6237 1.6296	1201.0 1207.1 1213.2 1229.2 1225.1 1230.9 1236.7 1242.4 1248.1 1253.7 1259.2 1264.8	2.52 2.56 2.65 2.69 2.73 2.77 2.81 2.85 2.89 2.93 2.97	[374:5] I.5533 I.5574 I.5646 I.5717 I.5786 I.5854 I.5920 I.5984 I.6048 I.6110 I.6171 I.6230 I.6289	1200.8 1207.0 1213.0 1219.0 1224.9 1230.7 1236.5 1242.2 1247.9 1253.5 1259.1 1264.6	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95	[374.9] I.5528 I.5566 I.5639 I.5710 I.5779 I.5846 I.5912 I.5977 I.6040 I.6102 I.6163 I.6223 I.6223 I.6228	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1242.1 1247.8 1253.4 1259.0 1264.5
380 390 400 410 420 430 440 450 460 470 480 490	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.80 2.84 2.88 2.92 2.96	[373.6] 1.5542 1.5590 1.5602 1.5733 1.5802 1.5869 1.5935 1.5999 1.6063 1.6185 1.6245	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1248.2 1253.8 1259.4 1264.9	2.54 2.58 2.66 2.70 2.75 2.79 2.83 2.87 2.91 2.94	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5927 1.5992 1.6055 1.6177 1.6178 1.6237	1201.0 1207.1 1213.2 1229.2 1225.1 1230.9 1236.7 1242.4 1248.1 1253.7 1259.2	2.52 2.56 2.65 2.69 2.73 2.77 2.81 2.85 2.89 2.93	[374:5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5854 1.5920 1.5984 1.6048 1.6110 1.6171 1.6230 1.6289 1.6346 1.6346 1.6340	1200.8 1207.0 1213.0 1224.9 1230.7 1236.5 1242.2 1247.9 1253.5 1259.1	2.50 2.55 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95 2.99 3.03	[374:9] 1.5528 1.5566 1.5639 1.5770 1.5779 1.5842 1.5977 1.6042 1.6163 1.6223 1.6282 1.6339 1.6339	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1247.8 1253.4 1253.4
380 390 410 420 430 440 450 460 470 480 490 500 510 520	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88 2.92 2.96 3.00 3.04 3.08 3.12	[373.6] 1.5542 1.5590 1.5602 1.5733 1.5802 1.5869 1.5935 1.5999 1.6063 1.6185 1.6245 1.6245 1.6303 1.6417 1.6473	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1242.5 1248.2 1259.4 1259.4 1259.4 1259.4 1270.4 1275.8 1281.2	2.54 2.58 2.62 2.66 2.70 2.75 2.79 2.83 2.87 2.91 2.94 2.98 3.02 3.06 3.10	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5861 1.5927 1.5992 1.6055 1.6178 1.6237 1.6236 1.6236 1.6253 1.6410 1.6466	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1 1253.7 1259.2 1264.8 1270.3 1275.7 1281.1	2.52 2.56 2.60 2.65 2.69 2.73 2.77 2.81 2.85 2.89 2.93 2.97 3.00 3.04 3.08	[374:5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5950 1.5984 1.6048 1.6101 1.6230 1.6239 1.6289 1.6346 1.6403 1.6459	1200.8 1207.0 1213.0 12249.0 1230.7 1236.5 1242.2 1247.9 1253.5 1259.1 1259.1 1259.4 1270.1 1275.6 1281.0	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95 2.99 3.03 3.06	[374:9] 1.5528 1.5566 1.5639 1.5710 1.5779 1.5846 1.5977 1.6040 1.6163 1.6223 1.6223 1.6282 1.6339 1.6336 1.6452	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1242.1 1247.8 1259.0 1259.0 1259.0 1259.5 1270.0
380 390 410 420 430 440 450 460 470 480 490 500 510	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88 2.92 2.96 3.00 3.04 3.08	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5869 1.5935 1.5999 1.6063 1.6125 1.6125 1.6125 1.6125 1.6303 1.6361 1.6417	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1248.2 1253.8 1253.8 1259.4 1259.4 1259.4 1259.4 1270.4	2.54 2.58 2.66 2.70 2.75 2.79 2.83 2.87 2.91 2.94 2.98 3.02 3.06	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5861 1.5922 1.60555 1.6117 1.6237 1.6236 1.6353 1.6410	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1 1253.7 1259.2 1264.8 1270.3 1270.3	2.52 2.56 2.60 2.65 2.69 2.73 2.77 2.81 2.85 2.89 2.93 2.93 2.97 3.00 3.04	[374:5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5854 1.5920 1.5984 1.6048 1.6110 1.6171 1.6230 1.6289 1.6346 1.6346 1.6340	1200.8 1207.0 1213.0 1224.9 1230.7 1236.5 1242.2 1247.9 1253.5 1259.1 1259.1 1254.6 1270.1 1275.6	2.50 2.55 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95 2.99 3.03	[374:9] 1.5528 1.5566 1.5639 1.5710 1.5779 1.5842 1.5977 1.6042 1.6163 1.6223 1.6282 1.6339 1.6339	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1247.8 1253.4 1253.4 1253.4 1253.4 1253.5
380 390 400 410 420 440 440 440 450 450 470 480 490 500 510 520 530 540	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88 2.92 2.96 3.00 3.04 3.08 3.12 3.15 3.19	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5803 1.5935 1.5939 1.6063 1.6125 1.6185 1.6125 1.6185 1.6245 1.6303 1.6361 1.6473 1.6473 1.6527 1.6528 1.6528	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1248.2 1253.8 1253.8 1259.4 1259.4 1270.4 1275.8 1281.2 1286.6 1292.0	2.54 2.58 2.62 2.66 2.70 2.75 2.79 2.83 2.87 2.91 2.94 2.98 3.02 3.06 3.10 3.14 3.17	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5927 1.5927 1.6075 1.6178 1.6237 1.6296 1.6353 1.6410 1.6466 1.6520 1.6574	1201.0 1207.1 1213.2 1219.2 1230.9 1236.7 1242.4 1248.1 1253.7 1259.2 1264.8 1270.3 1275.7 1281.1 1286.5 1291.9	2.52 2.56 2.60 2.65 2.73 2.77 2.81 2.85 2.89 2.93 2.93 2.97 3.00 3.04 3.08 3.12 3.15	$\begin{bmatrix} 374.5 \\ 1.5533 \\ 1.5574 \\ 1.5646 \\ 1.5717 \\ 1.5786 \\ 1.5920 \\ 1.5920 \\ 1.5924 \\ 1.6048 \\ 1.6110 \\ 1.6110 \\ 1.6230 \\ 1.6230 \\ 1.6289 \\ 1.6346 \\ 1.6403 \\ 1.6459 \\ 1.6513 \\ 1.6567 \\ \end{bmatrix}$	1200.8 1207.0 1213.0 1224.9 1230.7 1236.5 1242.2 1247.9 1253.5 1259.1 1259.1 1256.6 1270.1 1275.6 1281.0 1286.4 1291.8	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95 2.99 3.03 3.06 3.10	[374.9] 1.5528 1.5566 1.5639 1.5770 1.5972 1.5942 1.5977 1.6040 1.6102 1.6163 1.6223 1.6282 1.6339 1.6396 1.6452 1.6557 1.6557	1200.6 1206.8 1212.8 1212.8 1224.7 1230.6 1236.4 1242.1 1253.4 1253.4 1253.4 1253.0 1264.5 1270.0 1275.5 1280.9 1286.3 1291.7
380 390 410 420 430 440 450 460 470 480 490 500 510 520 530	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88 2.92 2.96 3.00 3.04 3.08 3.12 3.15	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5935 1.5999 1.6063 1.6125 1.6125 1.6245 1.6245 1.6303 1.6361 1.6417 1.6473 1.6527	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1248.2 1259.4 1259.4 1264.9 1270.4 1270.4 1281.2 1286.6	2.54 2.58 2.62 2.66 2.70 2.75 2.79 2.83 2.87 2.91 2.94 2.98 3.02 3.06 3.10 3.14 3.17 3.21	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5927 1.6927 1.6055 1.6177 1.6178 1.6237 1.6236 1.6256 1.6255 1.6416 1.6250	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1 1253.7 1259.2 1264.8 1270.3 1275.7 1281.1 1286.5 1291.9 1297.3	2.52 2.56 2.60 2.65 2.69 2.73 2.77 2.81 2.85 2.89 2.93 2.97 3.00 3.04 3.08 3.12 3.15 3.19	[374:5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5920 1.5984 1.6048 1.6171 1.6230 1.6230 1.6230 1.6246 1.6403 1.6459 1.64513	1200.8 1207.0 1213.0 1219.0 1224.9 1236.5 1242.2 1247.9 1259.1 1259.1 1264.6 1270.1 1275.6 1281.0 1286.4	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95 2.99 3.03 3.06 3.10 3.14 3.17	[374.9] 1.5528 1.5566 1.5639 1.5710 1.5779 1.5846 1.5912 1.5977 1.6040 1.6102 1.6103 1.6223 1.6223 1.6339 1.6339 1.6452 1.6339	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1247.8 1253.0 1259.0 1264.5 1270.0 1270.5 1280.9 1280.3
380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 600 650	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.84 2.92 2.96 3.00 3.04 3.08 3.12 3.15 3.19 3.23	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5935 1.5935 1.5935 1.6185 1.6185 1.6185 1.6245 1.6303 1.6361 1.6417 1.6527 1.6581 1.6581 1.6634 1.6634 1.6634 1.6890 1.7130	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1248.2 1259.4 1259.4 1259.4 1264.9 1270.4 1270.4 1281.2 1286.6 1292.0 1297.3 1323.7 1349.7	2.54 2.58 2.62 2.66 2.70 2.75 2.79 2.83 2.87 2.91 2.94 2.98 3.02 3.06 3.10 3.14 3.17	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5927 1.5992 1.6055 1.6117 1.6178 1.6237 1.6236 1.6353 1.6410 1.6520 1.6520 1.6574 1.6627 1.6627 1.6683 1.6123	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1 1259.2 1259.2 1264.8 1270.3 1275.7 1281.1 1286.5 1291.9 1297.3 1323.7 1349.7	2.52 2.56 2.60 2.65 2.73 2.77 2.81 2.85 2.89 2.93 2.93 2.97 3.00 3.04 3.08 3.12 3.15	[374:5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5920 1.5984 1.6048 1.6171 1.6230 1.6248 1.6489 1.6346 1.6453 1.6545 1.6567 1.6621 1.6876 1.7116	1200.8 1207.0 1213.0 1219.0 1224.9 1236.5 1242.2 1247.9 1259.1 1259.1 1259.1 1264.6 1270.1 1281.0 1281.0 1286.4 1291.8 1297.2 1323.6 1324.6	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95 2.99 3.03 3.06 3.10 3.14 3.17 3.35 3.53	[374:9] 1.5528 1.5566 1.5539 1.5710 1.5779 1.5912 1.5917 1.6040 1.6102 1.6163 1.6223 1.6282 1.6339 1.6396 1.6452 1.6507 1.6561 1.6614 1.6870 1.7110	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1247.8 1259.0 1264.5 1270.0 1270.5 1280.9 1280.3 1291.7 1297.1 1323.5 1349.5
380 390 400 410 420 440 450 450 450 450 450 520 530 540 550 600 650 700	2.55 2.59 2.64 2.68 2.76 2.80 2.84 2.92 2.96 3.00 3.04 3.08 3.12 3.15 3.19 3.23 3.41 3.59 3.77	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5803 1.5935 1.5999 1.6063 1.6125 1.6185 1.6245 1.6185 1.6245 1.6417 1.6417 1.6473 1.6581 1.6634 1.6634 1.6634 1.7130 1.7135	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1248.2 1253.8 1253.8 1259.4 1264.9 1270.4 1275.8 1286.6 1292.0 1297.3 1323.7 1349.7 1349.7 1349.5	2.54 2.58 2.62 2.66 2.70 2.75 2.79 2.83 2.91 2.94 2.98 3.02 3.06 3.10 3.14 3.17 3.21 3.57 3.57 3.75	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5927 1.5927 1.6055 1.6117 1.6178 1.6237 1.6236 1.6353 1.6410 1.64260 1.6574 1.6574 1.6627 1.6627 1.6623 1.7123 1.7351	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1 1253.7 1259.2 1264.8 1270.3 1275.7 1286.5 1291.9 1297.3 1323.7 1349.7 1349.7 1349.7	2.52 2.56 2.60 2.65 2.77 2.77 2.81 2.85 2.89 2.93 2.97 3.00 3.04 3.04 3.04 3.12 3.15 3.19 3.37 3.55 3.73	[374:5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5920 1.5924 1.5984 1.6048 1.6110 1.6171 1.6230 1.6289 1.6346 1.6493 1.6459 1.6567 1.6621 1.68766 1.7116 1.7144	1200.8 1207.0 1213.0 1224.9 1230.7 1236.5 1242.2 1247.9 1253.5 1259.1 1264.6 1270.1 1275.6 1286.4 1291.8 1291.8 1291.8	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95 2.99 3.03 3.06 3.10 3.14 3.17 3.353 3.53 3.71	[374:9] 1.5528 1.5566 1.5539 1.5710 1.5779 1.5912 1.5977 1.6040 1.6102 1.6163 1.6223 1.6282 1.6339 1.6396 1.6452 1.6597 1.6567 1.6614 1.6614 1.6614 1.7110 1.7137	1200.6 1206.8 1212.8 1212.8 1224.7 1230.6 1236.4 1242.1 1247.8 1253.4 1253.4 1253.4 1253.4 1253.0 1264.5 1270.0 1275.5 1280.9 1286.3 1291.7 1297.1 1323.5 1349.5 1349.5 1349.5
380 390 400 410 420 430 440 450 460 470 480 470 500 510 520 530 540 550 600 650 700 750	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88 2.92 2.96 3.00 3.04 3.08 3.12 3.15 3.19 3.23 3.41. 3.59 3.77 3.94	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5869 1.5999 1.6063 1.6185 1.6245 1.6245 1.6303 1.6361 1.6477 1.6581 1.6581 1.6634 1.6634 1.6587 1.6581 1.6634 1.6590 1.7130 1.7357 1.7574	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1248.2 1259.4 1259.4 1259.4 1264.9 1270.4 1270.4 1281.2 1286.6 1292.0 1297.3 1323.7 1349.7	2.54 2.58 2.62 2.66 2.70 2.75 2.79 2.83 2.87 2.94 2.94 2.94 2.94 3.02 3.06 3.10 3.14 3.17 3.21 3.39 3.57	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5927 1.5992 1.6055 1.6117 1.6178 1.6237 1.6236 1.6353 1.6410 1.6520 1.6520 1.6574 1.6627 1.6627 1.6683 1.6123	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1 1259.2 1259.2 1264.8 1270.3 1275.7 1281.1 1286.5 1291.9 1297.3 1323.7 1349.7	2.52 2.56 2.60 2.65 2.69 2.73 2.77 2.81 2.85 2.89 2.93 2.97 3.00 3.04 3.08 3.12 3.15 3.19 3.37 3.55	[374:5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5920 1.5984 1.6048 1.6171 1.6230 1.6248 1.6489 1.6346 1.6453 1.6545 1.6567 1.6621 1.6876 1.7116	1200.8 1207.0 1213.0 1224.9 1230.7 1236.5 1242.2 1247.9 1253.5 1259.1 1259.1 1259.4 1270.1 1275.6 1281.0 1286.4 1291.8 1297.2 1323.6 1349.6 1375.5 1401.2	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95 2.99 3.03 3.06 3.10 3.14 3.17 3.35 3.53 3.71 3.88	[374:9] 1.5528 1.5566 1.5639 1.5770 1.5779 1.5846 1.5977 1.6040 1.6163 1.6223 1.6223 1.6282 1.6396 1.6452 1.6396 1.6452 1.6567 1.6561 1.6614 1.6674 1.7337 1.7337	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1242.1 1247.8 1253.0 1259.0 1264.5 1275.5 1280.9 1286.3 1291.7 1297.1 1323.5 1349.5 1375.4 1401.1
380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 600 650 700 750 800	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88 2.92 2.96 3.00 3.04 3.08 3.12 3.15 3.19 3.23 3.41. 3.59 3.77 3.94 4.11	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5935 1.5935 1.5935 1.5939 1.6063 1.6125 1.6185 1.6245 1.6303 1.6361 1.6417 1.6473 1.6527 1.6581 1.6634 1.6634 1.6890 1.7130 1.7137 1.7757 1.7782	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1242.5 1248.2 1259.4 1259.4 1259.4 1259.4 1275.8 1227.5 1281.2 1286.6 1292.0 1297.3 1323.7 1323.7 1325.6 1401.3 1427.0	2.54 2.58 2.62 2.66 2.70 2.75 2.79 2.83 2.87 2.94 2.94 2.94 2.94 3.02 3.06 3.10 3.14 3.17 3.21 3.39 3.57 3.75 3.92 4.09	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5867 1.5927 1.5927 1.5992 1.6055 1.6117 1.6178 1.6237 1.6237 1.6236 1.6550 1.6574 1.6627 1.6627 1.66883 1.7123 1.71568 1.7776	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1 1259.2 1264.8 1270.3 1275.7 1281.1 1286.5 1291.9 1297.3 1323.7 1323.7 1325.5 1401.2 1426.9	2.52 2.56 2.60 2.65 2.69 2.73 2.77 2.81 2.85 2.89 2.93 2.97 3.00 3.04 3.08 3.12 3.15 3.19 3.37 3.55 3.73 3.90 4.07	[374:5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5920 1.5984 1.6048 1.6171 1.6230 1.6248 1.6489 1.6346 1.6459 1.6546 1.6577 1.6621 1.6876 1.7116 1.71344 1.7561 1.7770	1200.8 1207.0 1213.0 1224.9 1230.7 1236.5 1242.2 1247.9 1259.1 1259.1 1259.1 1275.6 1281.0 1286.4 1291.8 1297.2 1323.6 1349.6 1375.5 1401.2 1426.9	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95 2.99 3.03 3.06 3.10 3.14 3.17 3.35 3.53 3.71 3.88 4.05	[374-9] 1.5528 1.5566 1.5539 1.5710 1.5779 1.5912 1.5917 1.6040 1.6102 1.6163 1.6223 1.6282 1.6339 1.6396 1.6452 1.6507 1.6561 1.6614 1.6870 1.7100 1.71337 1.7555 1.7764	1200.6 1206.8 1212.8 1212.8 1224.7 1230.6 1236.4 1242.1 1247.8 1259.0 1264.5 1270.0 1275.5 1280.9 1286.3 1291.7 1297.1 1323.5 1349.5 1375.4 1401.1 1426.8
380 390 400 410 420 430 440 450 460 470 480 470 500 510 520 530 540 550 600 650 700 750	2.55 2.59 2.64 2.68 2.72 2.76 2.80 2.84 2.88 2.92 2.96 3.00 3.04 3.08 3.12 3.15 3.19 3.23 3.41. 3.59 3.77 3.94	[373.6] 1.5542 1.5590 1.5662 1.5733 1.5802 1.5869 1.5999 1.6063 1.6185 1.6245 1.6245 1.6303 1.6361 1.6477 1.6581 1.6581 1.6634 1.6634 1.6587 1.6581 1.6634 1.6590 1.7130 1.7357 1.7574	1201.2 1207.3 1213.4 1219.3 1225.2 1231.1 1236.8 1242.5 1242.5 1248.2 1253.8 1259.4 1259.4 1270.4 1270.4 1275.8 1281.2 1286.6 1292.0 1297.3 1323.7 1349.7 1375.6 1401.3	2.54 2.58 2.62 2.66 2.70 2.75 2.79 2.83 2.87 2.91 2.94 2.98 3.02 3.06 3.10 3.14 3.17 3.21 3.39 3.57 3.75 3.92	[374.0] 1.5538 1.5582 1.5654 1.5725 1.5794 1.5997 1.5992 1.60157 1.6178 1.6237 1.6296 1.6353 1.6410 1.6466 1.6520 1.6574 1.6627 1.6883 1.7123 1.7351 1.7568	1201.0 1207.1 1213.2 1219.2 1225.1 1230.9 1236.7 1242.4 1248.1 1253.7 1259.2 1264.8 1270.3 1275.7 1281.1 1286.5 1291.9 1297.3 1323.7 1349.7 1375.5 1401.2	2.52 2.56 2.60 2.65 2.69 2.73 2.77 2.81 2.85 2.89 2.93 2.97 3.00 3.04 3.08 3.12 3.15 3.19 3.37 3.55 3.73 3.90	[374:5] 1.5533 1.5574 1.5646 1.5717 1.5786 1.5920 1.5984 1.60100 1.6171 1.6230 1.6289 1.6346 1.6493 1.6459 1.6545 1.6573 1.6567 1.6621 1.6876 1.7116 1.7344 1.7561	1200.8 1207.0 1213.0 1224.9 1230.7 1236.5 1242.2 1247.9 1253.5 1259.1 1259.1 1259.4 1270.1 1275.6 1281.0 1286.4 1291.8 1297.2 1323.6 1349.6 1375.5 1401.2	2.50 2.55 2.59 2.63 2.67 2.71 2.75 2.79 2.83 2.87 2.91 2.95 2.99 3.03 3.06 3.10 3.14 3.17 3.35 3.53 3.71 3.88	[374:9] 1.5528 1.5566 1.5639 1.5770 1.5779 1.5846 1.5977 1.6040 1.6163 1.6223 1.6223 1.6282 1.6396 1.6452 1.6396 1.6452 1.6567 1.6561 1.6614 1.6674 1.7337 1.7337	1200.6 1206.8 1212.8 1218.8 1224.7 1230.6 1236.4 1242.1 1242.1 1247.8 1253.0 1259.0 1264.5 1275.5 1280.9 1286.3 1291.7 1297.1 1323.5 1349.5 1375.4 1401.1

Pres- sure		185 [375.4]			186 [375.8]			187 [376.3]			188 [376.7]	
Temp °F.	v	s	i	v	s	i	v	s	i	v	8	i
Sat.	2.47	1.5523	1197.6	2.46	1.5519	1197.6	2.44	1.5514	1197.7	2.43	1.5509	1197.8
380 390	2.49 2.53	1.5558 1.5631	1200.4 1206.6	2.48 2.52	1.5550 1.5623	1200.2 1206.4	2.46 2.50	1.5542 1.5615	1200.0 1206.2	2.45 2.49	1.5534 1.5607	1199.8 1206.0
400 410	2.57	1.5702	1212.6	2.56	1.5694	1212.5	2.54	1.5686	1212.3 1218.3	2.53	1.5679	1212.I 1218.I
420	2.66	1.5839	1224.5	2.64	1.5831	1224.4	2.63	1.5824	1224.2	2.61	1.5816	1224.0
430 440	2.70 2.74	1.5905 1.5970	1230.4 1236.2	2.68 2.72	1.5897 1.5962	1230.2 1236.0	2.67 2.71	1.5890 1.5955	1230.1 1235.9	2.65 2.69	1.5883 1.5948	1229.9 1235.7
450	2.78	1.6033	1241.9	2.76	1.6026	1241.8	2.75	1.6019	1241.6	2.73	1.6011	1241.5
460	2.82	1.6095	1247.6 1253.3	2.80 2.84	1.6088	1247.5 1253.1	2.79 2.82	1.6081 1.6142	1247.3 1253.0	2.77 2.81	1.6074	1247.2 1252.8
480	2.90	1.6216	1258.9	2.88	1.6209	1258.7	2.86	1.6202	1258.6	2.85	1.6195	1258.4
490	2.93	1.6275	1264.4	2.92	1.6268	1264.3	2.90	1.6261	1264.1	2.88	1.6254	1264.0
500	2.97	1.6332	1269.9	2.95	1.6325	1269.8	2.94	1.6318	1269.6	2.92	1.6311	1269.5
510	3.01	1.6389	1275.4	2.99	1.6382	1275.3	2.97	1.6375	1275.1 1280.6	2.96	1.6368	1275.0 1280.5
520 530	3.04 3.08	1.6445 1.6500	1280.8 1286.2	3.03 3.06	1.6438 1.6493	1280.7 1286.1	3.01 3.05	1.6431 1.6486	1280.0	2.99 3.03	1.6424	1280.5
540	3.12	1.6554	1291.6	3.10	1.6547	1291.5	3.08	1.6540	1291.4	3.07	1.6534	1291.3
550	3.16	1.6607	1 297.0	3.14	1.6600	1296.9	3.12	1.6594	1296.8	3.10	1.6587	1296.7
600	3.34	1.6863	1323.4	3.32	1.6857	1323.3	3.30	1.6850	1323.3	3.28	1.6843	1323.2
650	3.51	1.7104	1349.5	3.49	1.7097	1349.4	3.47	1.7091	1349.4	3.45	1.7084	1349.3
700 750	3.68 3.85	1.7331 1.7549	1375.4 1401.1	3.66 3.83	1.7325 1.7543	1375.3 1401.0	3.64 3.81	1.7318 1.7536	1375.2 1401.0	3.62 3.79	1.7312 1.7530	1375.2 1400.9
800	4.02	1.7757	1426.8	4.00	1.7751	1426.8	3.98	1.7745	1426.7	3.96	1.7739	1426.7
850	4.19	1.7958	1452.6	4.17	1.7952	1452.6	4.15	1.7946	1452.5	4.12	1.7939	1452.5
900	4.36	1.8152	1478.5	4.34	1.8146	1478.4	4.3I	1.8139	1478.4	4.29	1.8133	1478.4
				1.01		-4/014	4.2.				00	
		189 [377.1]		+51	190 [377.6]		T·3*	191 [378.0]			192 [378.5]	
Sat.	2.42		1197.8	2.41	190	1197.9	2.39	191	1197.9	2.38	192	1198.0
Sat. 380	2.42	[377.1]			190 [377.6]			191 [378.0]			192 [378.5]	
380 390		[377.1] 1.5505	1197.8	2.41	190 [377.6] 1.5500	1197.9	2.39	191 [378.0] 1.5496	1197.9	2.38	192 [378.5] 1.5491 1.5503 1.5576	1198.0
380 390 400	2.43 2.47 2.52	[377.1] 1.5505 1.5526 1.5599 1.5671	1197.8 1199.6 1205.8 1211.9	2.41 2.42 2.46 2.50	190 [377.6] 1.55∞ 1.5518 1.5592 1.5663	1197.9 1199.4 1205.6 1211.7	2.39 2.40 2.45 2.49	191 [378.0] 1.5496 1.5510 1.5584 1.5656	1197.9 1199.2 1205.4 1211.5	2.38 2.39 2.43 2.47	192 [378.5] 1.5491 1.5503 1.5576 1.5648	1198.0 1198.9 1205.2 1211.3
380 390 400 410	2.43 2.47 2.52 2.56	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741	1197.8 1199.6 1205.8 1211.9 1217.9	2.41 2.42 2.46 2.50 2.54	190 [377.6] 1.5500 1.5518 1.5592 1.5663 1.5733	1197.9 1199.4 1205.6 1211.7 1217.7	2.39 2.40 2.45 2.49 2.53	191 [378.0] 1.5496 1.5510 1.5584 1.5656 1.5726	1197.9 1199.2 1205.4 1211.5 1217.5	2.38 2.39 2.43 2.47 2.51	192 [378.5] 1.5491 1.5503 1.5576 1.5648 1.5718	1198.0 1198.9 1205.2 1211.3 1217.4
380 390 400 410 420	2.43 2.47 2.52 2.56 2.60	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741 1.5809	1197.8 1199.6 1205.8 1211.9 1217.9 1223.9	2.41 2.42 2.46 2.50 2.54 2.58	190 [377.6] 1.5500 1.5518 1.5592 1.5663 1.5733 1.5801	1197.9 1199.4 1205.6 1211.7 1217.7 1223.7	2.39 2.40 2.45 2.49 2.53 2.57	191 [378.0] 1.5496 1.55510 1.5584 1.5656 1.5726 1.57294	1197.9 1199.2 1205.4 1211.5 1217.5 1223.5	2.38 2.39 2.43 2.47 2.51 2.55	192 [378.5] 1.5491 1.5576 1.5576 1.5648 1.5718 1.5786	1198.0 1198.9 1205.2 1211.3 1217.4 1223.4
380 390 400 410	2.43 2.47 2.52 2.56	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741	1197.8 1199.6 1205.8 1211.9 1217.9	2.41 2.42 2.46 2.50 2.54	190 [377.6] 1.5500 1.5518 1.5592 1.5663 1.5733	1197.9 1199.4 1205.6 1211.7 1217.7	2.39 2.40 2.45 2.49 2.53	191 [378.0] 1.5496 1.5510 1.5584 1.5656 1.5726	1197.9 1199.2 1205.4 1211.5 1217.5	2.38 2.39 2.43 2.47 2.51	192 [378.5] 1.5491 1.5503 1.5576 1.5648 1.5718	1198.0 1198.9 1205.2 1211.3 1217.4
380 390 400 410 420 430 440 450	2.43 2.47 2.52 2.56 2.60 2.64	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741 1.5809 1.5875	1197.8 1199.6 1205.8 1211.9 1217.9 1223.9 1229.8	2.41 2.42 2.46 2.50 2.54 2.58 2.62	190 [377.6] 1.5500 1.5518 1.5592 1.5663 1.5733 1.5801 1.5868	1197.9 1199.4 1205.6 1211.7 1217.7 1223.7 1229.6 1235.4 1241.2	2.39 2.40 2.45 2.49 2.53 2.57 2.61	191 [378.0] I.5496 I.5510 I.5584 I.5656 I.5726 I.5794 I.5861 I.5926 I.5920	1197.9 1199.2 1205.4 1211.5 1217.5 1223.5 1229.4	2.38 2.39 2.43 2.47 2.51 2.55 2.59	192 [378-5] I.5491 I.5503 I.5576 I.5648 I.5718 I.5786 I.5786 I.5853 I.5919 I.5983	1198.0 1198.9 1205.2 1211.3 1217.4 1223.4 1229.3 1235.1 1240.9
380 390 400 410 420 430 440 450 460	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.75	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741 1.5809 1.5875 1.5940 1.6004 1.6066	1197.8 1199.6 1205.8 1211.9 1223.9 1223.6 1223.6 1241.3 1241.3	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74	190 [377.6] I.5500 I.5518 I.5592 I.5663 I.5733 I.5803 I.5803 I.5803 I.5933 I.5997 I.6059	1197.9 1199.4 1205.6 1211.7 1223.7 1229.6 1235.4 1241.2 1246.9	2.39 2.40 2.45 2.49 2.53 2.57 2.61 2.65 2.68 2.72	191 [378.0] I.5510 I.5584 I.5656 I.5726 I.5794 I.5861 I.5926 I.5990 I.6052	1197.9 1199.2 1205.4 1211.5 1227.5 1223.5 1229.4 1235.3 1241.0 1246.7	2.38 2.39 2.43 2.47 2.51 2.55 2.59 2.63 2.67 2.71	192 [378.5] I.5491 I.5503 I.5576 I.5648 I.57786 I.5786 I.5786 I.5785 I.5919 I.5983 I.5045	1198.0 1198.9 1205.2 1211.3 1227.4 1229.3 1225.1 1220.9 1246.6
380 390 400 410 420 430 440 450 460 470	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.75 2.79	$\begin{bmatrix} 1,77,1 \\ 1.5505 \\ 1.5505 \\ 1.5599 \\ 1.5671 \\ 1.5809 \\ 1.5875 \\ 1.5875 \\ 1.5940 \\ 1.6066 \\ 1.6128 \end{bmatrix}$	1197.8 1199.6 1205.8 1211.9 1223.9 1229.8 1225.6 1241.3 1247.0 1252.7	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74 2.78	190 [377.6] I.55502 I.55592 I.5663 I.5733 I.5863 I.5863 I.5868 I.5868 I.5933 I.5997 I.6059 I.6121	1197.9 1199.4 1205.6 1211.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6	2.39 2.40 2.45 2.49 2.57 2.61 2.65 2.68 2.72 2.76	191 [378.0] 1.5496 1.5584 1.5656 1.5726 1.5861 1.5861 1.5926 1.5926 1.5990 1.6052 1.6114	1197.9 1199.2 1205.4 1211.5 1223.5 1229.4 1235.3 1241.0 1246.7 1252.4	2.38 2.39 2.43 2.47 2.51 2.55 2.59 2.63 2.67 2.71 2.75	192 [378.5] I.5491 I.5576 I.5576 I.5648 I.5786 I.5786 I.5785 I.5785 I.5785 I.5785 I.5919 I.5983 I.6045 I.6107	1198.0 1198.9 1205.2 1211.3 1217.4 1223.4 1229.3 1235.1 1240.9 1246.6 1252.3
380 390 400 410 420 430 440 450 460	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.75	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741 1.5809 1.5875 1.5940 1.6004 1.6066	1197.8 1199.6 1205.8 1211.9 1223.9 1223.6 1223.6 1241.3 1241.3	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74	190 [377.6] I.5500 I.5518 I.5592 I.5663 I.5733 I.5803 I.5803 I.5803 I.5933 I.5997 I.6059	1197.9 1199.4 1205.6 1211.7 1223.7 1229.6 1235.4 1241.2 1246.9	2.39 2.40 2.45 2.49 2.53 2.57 2.61 2.65 2.68 2.72	191 [378.0] I.5510 I.5584 I.5656 I.5726 I.5794 I.5861 I.5926 I.5990 I.6052	1197.9 1199.2 1205.4 1211.5 1227.5 1223.5 1229.4 1235.3 1241.0 1246.7	2.38 2.39 2.43 2.47 2.51 2.55 2.59 2.63 2.67 2.71	192 [378.5] I.5491 I.5503 I.5576 I.5648 I.57786 I.5786 I.5786 I.5785 I.5919 I.5983 I.5045	1198.0 1198.9 1205.2 1211.3 1227.4 1229.3 1225.1 1220.9 1246.6
380 390 400 410 420 430 440 450 460 470 '480	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.72 2.79 2.83 2.87	[377.1] I.5505 I.5505 I.5599 I.5671 I.5741 I.5809 I.5875 I.5940 I.6004 I.6066 I.6128 I.6188 I.6188 I.6247	1197.8 1199.6 1205.8 1211.9 1223.9 1223.6 12241.3 1241.3 1247.0 1252.7 1258.3 1263.9	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74 2.78 2.81 2.85	190 [377.6] I.5500 I.5518 I.5592 I.5663 I.5733 I.5863 I.5863 I.5863 I.5863 I.5863 I.5933 I.5997 I.6059 I.6121 I.6181 I.6240	1197.9 1199.4 1205.6 1211.7 1217.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6 1258.2 1263.8	2.39 2.40 2.45 2.49 2.53 2.57 2.61 2.65 2.68 2.72 2.76 2.80 2.83	191 [378.0] I.5496 I.5510 I.5584 I.5656 I.5794 I.5726 I.5794 I.5926 I.5926 I.5990 I.6052 I.6114 I.6174 I.6233	1197.9 1199.2 1205.4 1211.5 1223.5 1223.5 1229.4 1235.3 1241.0 1246.7 1252.4 1258.0 1263.6	2.38 2.39 2.43 2.47 2.51 2.55 2.59 2.63 2.67 2.71 2.75 2.78 2.82	192 [378.5] I.5491 I.5503 I.5576 I.5648 I.57786 I.57786 I.57786 I.57853 I.5919 I.5983 I.6045 I.6107 I.6167 I.6226	1198.0 1198.9 1205.2 1211.3 1217.4 1223.4 1229.3 1235.1 1246.6 1252.3 1257.9
380 390 400 410 420 430 440 440 450 460 470 '480 490	2.43 2.47 2.52 2.56 2.66 2.64 2.68 2.72 2.75 2.79 2.83	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741 1.5809 1.5875 1.5940 1.6066 1.6128 1.6188	1197.8 1199.6 1205.8 1211.9 1223.9 1223.9 1223.9 1223.6 1241.3 1247.0 1252.7 1258.3	2.41 2.42 2.46 2.50 2.54 2.58 2.66 2.66 2.70 2.74 2.78 2.81	190 [377.6] I.55592 I.55592 I.5663 I.5733 I.5863 I.5868 I.5868 I.5933 I.5997 I.6059 I.6121 I.6181 I.6240 I.6298	1197.9 1199.4 1205.6 1211.7 1223.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6 1252.6 1258.2	2.39 2.40 2.45 2.53 2.57 2.61 2.65 2.68 2.72 2.76 2.80	191 [378.0] 1.5496 1.5584 1.5656 1.5726 1.5726 1.5726 1.5926 1.5926 1.5990 1.6052 1.6114 1.6174	1197.9 1199.2 1205.4 1211.5 1223.5 1229.4 1235.3 1241.0 1246.7 1252.4 1258.0	2.38 2.39 2.43 2.51 2.55 2.59 2.63 2.67 2.71 2.75 2.78	192 [378.5] I.5491 I.5576 I.5576 I.5648 I.5778 I.5785 I.5785 I.5959 I.5983 I.6045 I.6107 I.6167	1198.0 1198.9 1205.2 1211.3 1223.4 1229.3 1225.1 1240.9 1246.6 1252.3 1257.9 1263.5
380 390 400 410 420 430 440 450 460 470 480 490 500	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.75 2.79 2.83 2.87 2.90 2.94 2.98	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741 1.5749 1.5809 1.5875 1.5940 1.6004 1.6004 1.6028 1.6128 1.6128 1.6128 1.6128 1.6247 1.6305 1.6301 1.6417	1197.8 1199.6 1205.8 1211.9 1227.9 1229.8 1235.6 1241.3 1247.0 1252.7 1258.3 1269.4 1274.9 1280.4	2.41 2.42 2.46 2.50 2.54 2.58 2.66 2.66 2.70 2.74 2.78 2.81 2.85 2.89 2.93 2.96	190 [377.6] I.5552 I.5558 I.5592 I.5663 I.5733 I.5868 I.5933 I.5997 I.6529 I.6121 I.6181 I.6181 I.6240 I.6298 I.6355 I.6411	1197.9 1199.4 1205.6 1211.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6 1252.6 1258.2 1263.8 1269.3 1274.8 1280.3	2.39 2.40 2.45 2.53 2.57 2.61 2.65 2.68 2.72 2.76 2.80 2.83 2.83 2.87 2.91 2.95	191 [378.0] I.5496 I.5584 I.5584 I.5726 I.5726 I.5726 I.5726 I.5926 I.5926 I.5990 I.6522 I.6174 I.6174 I.6233 I.6291 I.6348 I.6404	1197.9 1199.2 1205.4 1211.5 1227.5 1229.4 1235.3 1241.0 1246.7 1252.4 1258.0 1263.6 1269.2 1274.7 1280.1	2.38 2.39 2.43 2.47 2.51 2.55 2.59 2.63 2.67 2.75 2.78 2.82 2.86 2.89 2.93	192 [378-5] I.5491 I.5576 I.5576 I.5648 I.5778 I.5786 I.5785 I.5919 I.5943 I.6167 I.6167 I.6167 I.61226 I.6284 I.6341 I.6397	1198.0 1198.9 1205.2 1211.3 1217.4 1229.3 1235.1 1246.6 1252.3 1257.9 1263.5 1269.1 1274.6 1280.0
380 390 410 420 430 440 440 450 450 450 480 490 510 520 530	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.75 2.75 2.83 2.83 2.87 2.90 2.94 2.98 3.01	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741 1.5809 1.5875 1.5940 1.6004 1.6004 1.6128 1.6128 1.6128 1.6135 1.6305 1.6417 1.6417	1197.8 1199.6 1205.8 1211.9 1223.9 1223.9 1229.8 1235.6 1241.3 1247.0 1252.7 1258.3 1263.9 1263.9 1269.4 1274.9 1280.4 1285.8	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74 2.78 2.81 2.85 2.89 2.93 2.96 3.00	190 [377.6] I.5500 I.5518 I.5592 I.5663 I.5733 I.5801 I.5868 I.5933 I.5997 I.6059 I.6121 I.6181 I.6298 I.6298 I.6355 I.6411 I.6466	1197.9 1199.4 1205.6 1211.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6 1258.2 1263.8 1263.8 1269.3 1274.8 1280.3 1280.3 1280.57	2.39 2.40 2.45 2.49 2.53 2.57 2.61 2.65 2.68 2.72 2.76 2.80 2.80 2.83 2.87 2.95 2.98	191 [378.0] I.5496 I.5510 I.5584 I.5656 I.5794 I.5794 I.5926 I.5926 I.5990 I.6052 I.6114 I.6174 I.6233 I.6291 I.6291 I.6459	1197.9 1199.2 1205.4 1211.5 1223.5 1223.5 1229.4 1235.3 1241.0 1246.7 1252.4 1258.0 1263.6 1269.2 1274.7 1280.1 1280.1	2.38 2.39 2.43 2.55 2.59 2.63 2.67 2.71 2.75 2.78 2.86 2.86 2.89 2.93 2.97	192 [378:5] I.5491 I.5576 I.5576 I.5768 I.5778 I.5778 I.5778 I.5786 I.5785 I.57919 I.5983 I.6045 I.6107 I.61276 I.6226 I.6284 I.6397 I.6453	1198.0 1198.9 1205.2 1211.3 1223.4 1229.3 1223.1 1240.9 1246.6 1252.3 1257.9 1263.5 1263.5 1269.1 1274.6 1285.5
380 390 400 410 420 430 440 450 460 470 480 490 510 520 530 540	2.43 2.47 2.52 2.56 2.66 2.64 2.68 2.72 2.75 2.79 2.83 2.87 2.90 2.94 2.98 3.01 3.05	$\begin{bmatrix} 1,77,1 \\ 1,5505 \\ 1,5599 \\ 1,5599 \\ 1,5671 \\ 1,5741 \\ 1,5809 \\ 1,5875 \\ 1,5940 \\ 1,6066 \\ 1,6128 \\ 1,6188 \\ 1,6188 \\ 1,6188 \\ 1,6188 \\ 1,6188 \\ 1,6188 \\ 1,6168 \\$	1197.8 1199.6 1205.8 1211.9 1223.9 1229.8 1235.6 1241.3 1247.0 1252.7 1258.3 1263.9 1269.4 1274.9 1280.4 1274.9 1280.4 1285.8 1291.2	2.41 2.42 2.46 2.50 2.54 2.62 2.66 2.70 2.74 2.78 2.81 2.85 2.89 2.93 2.96 3.00 3.03	190 [377.6] I.55592 I.55592 I.5663 I.5733 I.5863 I.5863 I.5868 I.5933 I.5997 I.6059 I.6121 I.6240 I.6298 I.6355 I.6411 I.6466 I.6520	1197.9 1199.4 1205.6 1211.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6 1258.2 1263.8 1269.3 1274.8 1280.3 1274.8 1280.3 1285.7 1291.1	2.39 2.40 2.45 2.45 2.61 2.65 2.68 2.72 2.76 2.80 2.83 2.83 2.87 2.91 2.95 2.98 3.02	191 [378.0] I.5496 I.5584 I.5584 I.5566 I.5794 I.5861 I.5926 I.5990 I.6052 I.6114 I.6174 I.6233 I.6291 I.6348 I.6404 I.6459 I.6514	1197.9 1199.2 1205.4 1211.5 1223.5 1229.4 1235.3 1241.0 1246.7 1252.4 1258.0 1263.6 1269.2 1274.7 1280.1 1285.6 1291.0	2.38 2.39 2.43 2.47 2.51 2.55 2.59 2.63 2.67 2.71 2.75 2.78 2.82 2.86 2.89 2.93 2.97 3.00	192 [378:5] I.5491 I.5576 I.5576 I.5648 I.5786 I.5786 I.5785 I.5785 I.5785 I.5785 I.5785 I.5785 I.5785 I.5785 I.5919 I.5983 I.6045 I.6045 I.6026 I.6226 I.6284 I.6397 I.6453 I.6453 I.6577	1198.0 1198.9 1205.2 1211.3 1217.4 1229.3 1225.1 1240.9 1246.6 1252.3 1257.9 1263.5 1269.1 1274.6 1280.0 1285.5 1290.9
380 390 400 410 420 440 440 450 450 450 470 480 490 510 520 530 540 550	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.72 2.75 2.83 2.87 2.90 2.94 2.98 3.01 3.05 3.09	[377.1] 1.5505 1.5599 1.5599 1.5671 1.5741 1.5809 1.5849 1.5849 1.5849 1.5849 1.6044 1.6044 1.6128 1.6128 1.6128 1.6128 1.6355 1.6351 1.6473 1.6527 1.6580	1197.8 1199.6 1205.8 1211.9 1223.9 1229.8 1223.6 1241.3 1247.0 1252.7 1258.3 1263.9 1269.4 1274.9 1280.4 1274.9 1280.4 1291.2 1296.6	2.41 2.42 2.46 2.50 2.54 2.66 2.66 2.70 2.74 2.78 2.81 2.85 2.89 2.93 2.96 3.00 3.03 3.07	190 [377.6] I.5550 I.5558 I.5592 I.5663 I.5733 I.5863 I.5933 I.5997 I.6059 I.6121 I.6181 I.6240 I.6298 I.6355 I.6411 I.6466 I.6520 I.6574	1197.9 1199.4 1205.6 1211.7 1223.6 1223.6 1223.6 1235.4 1241.2 1246.9 1252.6 1252.6 1258.2 1263.8 1269.3 1274.8 1280.3 1274.8 1280.3 1285.7 1291.1 1296.5	2.39 2.40 2.45 2.57 2.61 2.65 2.68 2.72 2.76 2.80 2.83 2.83 2.83 2.91 2.95 2.98 3.02 3.05	191 [378.0] I.5496 I.5584 I.5584 I.5726 I.5726 I.5726 I.5726 I.5926 I.5926 I.5926 I.6052 I.6114 I.6174 I.6233 I.6291 I.6348 I.6404 I.6459 I.6514 I.6567	1197.9 1199.2 1205.4 1211.5 1227.5 1229.4 1235.3 1241.0 1246.7 1252.4 1258.0 1263.6 1269.2 1274.7 1280.1 1285.6 1291.0 1296.4	2.38 2.39 2.43 2.47 2.51 2.55 2.59 2.63 2.67 2.71 2.75 2.78 2.82 2.86 2.89 2.93 2.97 3.00 3.04	192 [378:5] 1.5491 1.5576 1.5576 1.5576 1.5576 1.578 1.578 1.578 1.578 1.5919 1.5983 1.6045 1.6107 1.6107 1.6226 1.6226 1.6284 1.6397 1.6453 1.6507 1.6561	1198.0 1198.9 1205.2 1211.3 1217.4 1223.4 1229.3 1235.1 1240.9 1246.6 1252.3 1257.9 1263.5 1269.1 1274.6 1285.5 1290.9 1296.3
380 390 400 410 420 430 440 450 460 470 480 490 510 520 530 540 550 600	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.75 2.79 2.83 2.87 2.90 2.94 2.98 3.01 3.05 3.09 3.26	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741 1.5809 1.5875 1.5940 1.6004 1.6004 1.6004 1.6004 1.6128 1.6128 1.6128 1.6247 1.6305 1.6305 1.6473 1.6527 1.6580 1.6837	1197.8 1199.6 1205.8 1211.9 1223.9 1223.9 1223.6 1241.3 1247.0 1252.7 1258.3 1263.9 1269.4 1274.9 1280.4 1285.8 1291.2 1296.6 1323.1	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74 2.78 2.81 2.85 2.89 2.93 2.93 2.96 3.00 3.03 3.07 3.25	190 [377.6] I.5500 I.5518 I.5592 I.5663 I.5863 I.5868 I.5933 I.5933 I.5997 I.6059 I.6121 I.6240 I.6298 I.6421 I.6248 I.6466 I.6520 I.6574 I.6830	1197.9 1199.4 1205.6 1211.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6 1252.6 1263.8 1269.3 1274.8 1280.3 1285.7 1291.1 1296.5 1323.0	2.39 2.40 2.45 2.49 2.53 2.57 2.61 2.65 2.68 2.72 2.76 2.80 2.83 2.87 2.95 2.98 3.02 3.05 3.23	191 [378.0] I.5496 I.5510 I.5584 I.5726 I.5794 I.5794 I.5926 I.5926 I.5990 I.6052 I.6114 I.6174 I.6233 I.6291 I.6291 I.6429 I.6459 I.6459 I.6514 I.6567 I.6824	1197.9 1199.2 1205.4 1211.5 1223.5 1229.4 1235.3 1241.0 1246.7 1252.4 1258.0 1263.6 1269.2 1274.7 1280.1 1280.5 1291.0 1296.4 1322.9	2.38 2.39 2.43 2.47 2.55 2.59 2.63 2.67 2.71 2.75 2.78 2.86 2.82 2.86 2.89 2.93 2.97 3.00 3.04 3.21	192 [378:5] I.5491 I.5576 I.5576 I.5768 I.5768 I.5778 I.5778 I.5778 I.5786 I.5786 I.5788 I.5718 I.5786 I.5853 I.6045 I.6107 I.6226 I.6226 I.6284 I.6337 I.6453 I.6453 I.6507 I.6561 I.6818	1198.0 1198.9 1205.2 1211.3 1223.4 1223.4 1229.3 1235.1 1240.9 1246.6 1252.3 1257.9 1263.5 1269.1 1274.6 1280.0 1285.5 1290.9 1296.3 1322.9
380 390 400 410 420 430 440 450 460 470 480 490 500 520 530 540 550 600 650	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.75 2.79 2.83 2.87 2.90 2.94 2.98 3.01 3.05 3.09 3.26 3.44	[377.1] 1.5526 1.5526 1.5599 1.5671 1.5741 1.5875 1.5875 1.5940 1.6044 1.6066 1.6128 1.6188 1.6188 1.6247 1.6305 1.6361 1.6473 1.6527 1.6580 1.68837 1.7078	1197.8 1199.6 1205.8 1211.9 1223.9 1223.9 1223.6 1241.3 1247.0 1252.7 1258.3 1263.9 1269.4 1274.9 1280.4 1285.8 1291.2 1296.6 1323.1 1349.2	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74 2.78 2.81 2.85 2.89 2.93 2.93 2.93 3.00 3.03 3.07 3.25 3.42	190 [377.6] I.5500 I.5518 I.5592 I.5663 I.5733 I.5863 I.5933 I.5933 I.5997 I.6059 I.6121 I.6181 I.6240 I.6298 I.6355 I.6411 I.6466 I.6520 I.6574 I.6830 I.7072	1197.9 1199.4 1205.6 1211.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6 1252.6 1258.2 1263.8 1269.3 1274.8 1285.7 1291.1 1285.7 1291.1 1296.5 1323.0 1349.1	2.39 2.40 2.45 2.45 2.57 2.61 2.65 2.68 2.72 2.76 2.80 2.83 2.87 2.91 2.95 3.02 3.05 3.23 3.40	191 [378.0] I.5496 I.5510 I.5584 I.5726 I.5726 I.5794 I.5861 I.5926 I.5926 I.5926 I.6052 I.6114 I.6174 I.6233 I.6291 I.6348 I.6409 I.6459 I.6514 I.6459 I.6514 I.6567 I.6824 I.7065	1197.9 1199.2 1205.4 1211.5 1223.5 1229.4 1235.3 1241.0 1246.7 1252.4 1252.4 1263.6 1269.2 1274.7 1285.6 1291.0 1285.6 1291.0 1296.4 1322.9 1349.1	2.38 2.39 2.43 2.47 2.51 2.55 2.59 2.63 2.67 2.71 2.75 2.78 2.82 2.86 2.89 2.93 2.97 3.00 3.04 3.21 3.38	192 [378:5] I.5491 I.5503 I.5576 I.5648 I.5786 I.5786 I.5786 I.5786 I.5786 I.5919 I.5983 I.6045 I.607 I.6167 I.6226 I.6284 I.6397 I.6453 I.6507 I.6458 I.6507 I.6818 I.7059	1198.0 1198.9 1205.2 1217.3 1217.4 1223.4 1229.3 1225.1 1240.9 1246.6 1252.3 1257.9 1263.5 1269.1 1274.6 1285.5 1290.9 1285.5 1290.9 1296.3 1322.9 1349.0
380 390 400 410 420 430 440 450 460 470 480 490 510 520 530 540 550 600	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.75 2.79 2.83 2.87 2.90 2.94 2.98 3.01 3.05 3.09 3.26	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741 1.5809 1.5875 1.5940 1.6004 1.6004 1.6004 1.6004 1.6128 1.6128 1.6128 1.6247 1.6305 1.6305 1.6473 1.6527 1.6580 1.6837	1197.8 1199.6 1205.8 1211.9 1223.9 1223.9 1223.6 1241.3 1247.0 1252.7 1258.3 1263.9 1269.4 1274.9 1280.4 1285.8 1291.2 1296.6 1323.1	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74 2.78 2.81 2.85 2.89 2.93 2.93 2.96 3.00 3.03 3.07 3.25	190 [377.6] I.5500 I.5518 I.5592 I.5663 I.5863 I.5868 I.5933 I.5933 I.5997 I.6059 I.6121 I.6240 I.6298 I.6421 I.6248 I.6466 I.6520 I.6574 I.6830	1197.9 1199.4 1205.6 1211.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6 1252.6 1263.8 1269.3 1274.8 1280.3 1285.7 1291.1 1296.5 1323.0	2.39 2.40 2.45 2.49 2.53 2.57 2.61 2.65 2.68 2.72 2.76 2.80 2.83 2.87 2.95 2.98 3.02 3.05 3.23	191 [378.0] I.5496 I.5510 I.5584 I.5726 I.5794 I.5794 I.5926 I.5926 I.5990 I.6052 I.6114 I.6174 I.6233 I.6291 I.6291 I.6429 I.6459 I.6459 I.6514 I.6567 I.6824	1197.9 1199.2 1205.4 1211.5 1223.5 1229.4 1235.3 1241.0 1246.7 1252.4 1258.0 1263.6 1269.2 1274.7 1280.1 1280.5 1291.0 1296.4 1322.9	2.38 2.39 2.43 2.47 2.55 2.59 2.63 2.67 2.71 2.75 2.78 2.86 2.82 2.86 2.89 2.93 2.97 3.00 3.04 3.21	192 [378:5] I.5491 I.5576 I.5576 I.5768 I.5768 I.5778 I.5778 I.5778 I.5786 I.5786 I.5788 I.5718 I.5786 I.5853 I.6045 I.6107 I.6226 I.6226 I.6284 I.6337 I.6453 I.6453 I.6507 I.6561 I.6818	1198.0 1198.9 1205.2 1211.3 1223.4 1223.4 1229.3 1235.1 1240.9 1246.6 1252.3 1257.9 1263.5 1269.1 1274.6 1280.0 1285.5 1290.9 1296.3 1322.9
380 390 400 410 420 440 450 460 470 480 490 500 510 520 540 540 550 650 650 700	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.75 2.79 2.83 2.87 2.90 2.94 2.98 3.01 3.05 3.09 3.26 3.44 3.61	[377.1] 1.5505 1.5526 1.5599 1.5671 1.5741 1.5875 1.5940 1.6004 1.6004 1.6004 1.6028 1.6188 1.6188 1.6188 1.6188 1.6188 1.6305 1.6305 1.6305 1.6377 1.6587 1.6587 1.7078 1.7078 1.705	1197.8 1199.6 1205.8 1211.9 1223.9 1229.8 12235.6 1241.3 1247.0 1252.7 1252.3 1269.4 1274.9 1285.8 1291.2 1296.6 1323.1 1349.2 1375.1	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74 2.78 2.81 2.85 2.93 2.93 2.93 2.93 3.00 3.03 3.07 3.25 3.42 3.59	190 [377.6] I.5550 I.55592 I.5663 I.5733 I.5863 I.5868 I.5933 I.5997 I.6059 I.6121 I.6181 I.6240 I.6298 I.6355 I.6411 I.6466 I.6520 I.6574 I.6830 I.7072 I.7300	1197.9 1199.4 1205.6 1211.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6 1258.2 1263.8 1269.3 1274.8 1285.7 1291.1 1296.5 1323.0 1349.1 1375.1	2.39 2.40 2.45 2.49 2.57 2.61 2.65 2.68 2.72 2.76 2.80 2.83 2.87 2.91 2.95 3.02 3.05 3.40 3.57	191 [378.0] I.5496 I.5584 I.5584 I.5794 I.5861 I.5926 I.5926 I.5926 I.6052 I.6114 I.6233 I.6291 I.6348 I.6404 I.6459 I.6514 I.6567 I.6824 I.6564 I.6824 I.7294	1197.9 1199.2 1205.4 1217.5 1227.5 1229.4 1235.3 1241.0 1246.7 1252.4 1258.0 1263.6 1269.2 1274.7 1285.6 1291.0 1296.4 1322.9 1349.1	2.38 2.39 2.43 2.47 2.51 2.55 2.59 2.63 2.67 2.71 2.75 2.78 2.82 2.86 2.89 2.93 3.00 3.04 3.55	192 [378:5] I.5491 I.5503 I.5576 I.5648 I.5786 I.5786 I.5786 I.5786 I.5786 I.5786 I.5786 I.5786 I.5786 I.5939 I.6045 I.607 I.6226 I.6284 I.6397 I.6453 I.6507 I.6561 I.6561 I.7059 I.7288	1198.0 1198.9 1205.2 1211.3 1217.4 1223.4 1229.3 1225.1 1240.9 1246.6 1252.3 1257.9 1263.5 1269.1 1274.6 1285.5 1290.9 1296.3 1322.9 1349.0
380 390 400 410 420 440 450 460 470 480 490 510 520 530 540 550 650 650 700 750 800 850	2.43 2.47 2.52 2.56 2.60 2.64 2.72 2.75 2.79 2.83 2.87 2.90 2.94 2.98 3.01 3.05 3.09 3.26 3.44 3.61 3.77 3.94 4.10	[377.1] 1.5505 1.5526 1.5599 1.5571 1.5741 1.5875 1.5875 1.6004 1.6004 1.6004 1.6024 1.6024 1.6305 1.6361 1.6473 1.6527 1.6580 1.6587 1.6580 1.7078 1.7078 1.7033 1.7733 1.7933	1197.8 1199.6 1205.8 1211.9 1223.9 1223.6 1241.3 1241.3 1247.0 1252.7 1258.3 1269.4 1274.9 1285.8 1291.2 1296.6 1323.1 1349.2 1375.1 1400.9 1426.7 1452.5	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74 2.78 2.81 2.85 2.89 2.93 2.93 2.93 2.93 3.00 3.00 3.03 3.07 3.25 3.42 3.59 3.75 3.92 4.08	190 [377.6] I.5550 I.55592 I.5663 I.5733 I.5863 I.5863 I.5863 I.5863 I.5933 I.5997 I.6059 I.6121 I.6181 I.6240 I.6298 I.6355 I.6411 I.6466 I.6520 I.6574 I.6455 I.6574 I.6830 I.7518 I.7727 I.7927	1197.9 1199.4 1205.6 1211.7 1223.7 1223.6 1223.4 1241.2 1246.9 1252.6 1252.6 1258.2 1263.8 1269.3 1274.8 1285.7 1291.1 1296.5 1323.0 1349.1 1375.1 1400.9 1426.6 1452.4	2.39 2.40 2.45 2.49 2.57 2.61 2.65 2.68 2.72 2.76 2.80 2.83 2.87 2.91 2.95 3.02 3.05 3.23 3.40 3.57 3.73 3.90 4.06	191 [378.0] I.5496 I.5550 I.5584 I.5656 I.5794 I.5861 I.5926 I.5926 I.5990 I.6052 I.6114 I.6233 I.6291 I.6348 I.6404 I.64594 I.6557 I.6544 I.6567 I.6824 I.7065 I.7294 I.7512 I.7720 I.7720 I.7721	1197.9 1199.2 1205.4 1217.5 1227.5 1229.4 1235.3 1241.0 1246.7 1252.4 1258.0 1269.2 1274.7 1285.6 1291.0 1296.4 1322.9 1349.1 1375.0 1400.8 1426.6 1452.4	2.38 2.39 2.43 2.47 2.51 2.55 2.59 2.63 2.67 2.71 2.75 2.78 2.82 2.86 2.89 2.93 3.04 3.21 3.38 3.55 3.71 3.88 4.04	192 [378:5] I.5491 I.5503 I.5576 I.5648 I.5786 I.5786 I.5786 I.5785 I.5785 I.5785 I.5919 I.5983 I.6045 I.6045 I.6045 I.6226 I.6284 I.6397 I.6453 I.6507 I.6561 I.7288 I.7506 I.7715 I.7715 I.7915	1198.0 1198.9 1205.2 1217.3 1217.4 1223.4 1229.3 1225.1 1240.9 1246.6 1252.3 1257.9 1263.5 1269.1 1274.6 1285.5 1290.9 1296.3 1322.9 1349.0 1349.0 1349.0 1349.5 1452.4
380 390 400 410 410 420 430 440 450 450 460 490 510 520 520 530 540 650 600 650 700 750 800 800	2.43 2.47 2.52 2.56 2.60 2.64 2.68 2.72 2.75 2.75 2.83 2.83 2.87 2.90 2.94 2.98 3.01 3.05 3.09 3.26 3.44 3.61 3.77 3.94	[377.1] 1.5505 1.5526 1.5599 1.5571 1.5741 1.5875 1.5875 1.6004 1.6004 1.6004 1.6024 1.6024 1.6305 1.6361 1.6473 1.6527 1.6580 1.6587 1.6580 1.7078 1.7078 1.7033 1.7733 1.7933	1197.8 1199.6 1205.8 1211.9 1223.9 1223.6 1241.3 1247.0 1252.7 1258.3 1247.0 1252.7 1258.3 1247.9 1269.4 1274.9 1285.8 1291.2 1296.6 1323.1 1349.2 1375.1 1400.9 1426.7	2.41 2.42 2.46 2.50 2.54 2.58 2.62 2.66 2.70 2.74 2.78 2.81 2.85 2.89 2.93 2.93 2.93 3.00 3.03 3.07 3.25 3.42 3.59 3.75 3.92	190 [377.6] I.5500 I.5518 I.5592 I.5663 I.5733 I.5863 I.5933 I.5933 I.5997 I.6059 I.6121 I.6459 I.6121 I.6298 I.6298 I.6451 I.6466 I.64520 I.6574 I.6830 I.7072 I.7300 I.7518 I.7727	1197.9 1199.4 1205.6 1211.7 1223.7 1223.7 1229.6 1235.4 1241.2 1246.9 1252.6 1252.6 1252.8 1269.3 1274.8 1280.3 1285.7 1291.1 1296.5 1323.0 1349.1 1375.1 1400.9 1426.6	2.39 2.40 2.45 2.45 2.57 2.61 2.65 2.68 2.72 2.76 2.80 2.83 2.87 2.91 2.95 3.02 3.05 3.23 3.40 3.57 3.73 3.90	191 [378.0] I.5496 I.5510 I.5584 I.5726 I.5794 I.5926 I.5926 I.5926 I.5930 I.6052 I.6114 I.6174 I.6233 I.6291 I.6348 I.6459 I.6459 I.6514 I.6567 I.6824 I.7294 I.7512 I.7720	1197.9 1199.2 1205.4 1211.5 1217.5 1223.5 1229.4 1235.3 1241.0 1246.7 1252.4 1252.4 1253.6 1269.2 1274.7 1285.6 1291.0 1285.6 1291.0 1296.4 1322.9 1349.1 1375.0 1400.8 1426.6	2.38 2.39 2.43 2.47 2.55 2.59 2.63 2.67 2.71 2.75 2.78 2.82 2.86 2.89 2.93 2.97 3.00 3.04 3.21 3.38 3.55 3.71 3.88	192 [378:5] I.5491 I.5503 I.5576 I.5648 I.5768 I.5768 I.5768 I.5778 I.5786 I.5786 I.5786 I.5788 I.5919 I.5983 I.6045 I.6107 I.6107 I.6226 I.6226 I.6284 I.6341 I.6397 I.6453 I.6507 I.6453 I.6561 I.6818 I.7059 I.7288 I.7506 I.7715	1198.0 1198.9 1205.2 1211.3 1217.4 1223.4 1229.3 1225.1 1240.9 1246.6 1252.3 1257.9 1263.5 1269.1 1274.6 1285.5 1290.9 1296.3 1322.9 1349.0 1375.0 1400.8 1426.5

Pres- sure		193 [378.9]			194 [379-3]			195 [379.7]	-	36	196 [380.2]	
Temp °F.	٧	s	i	v	s	i	v	s	i	V	s	i
Sat.	2.37	1.5487	1198.1	2.36	1.5482	1198.1	2.35	1.5478	1198.2	2.34	1.5473	1198.2
390	2.42	1.5569	1205.0	2.40	1.5561	1 204.8	2.39	1.5554	1 204.6	2.38	1.5546	1204.4
400	2.46	1.5641	1211.1	2.44	1.5633	1210.9	2.43	1.5626	1210.7	2.42	1.5618	1210.5
410	2.50	1.5711	1217.2	2.48	1.5703	1217.0	2.47	1.5696	1216.8	2.46	1.5689	1216.6
420 430	2.54 2.58	1.5779 1.5846	1223.2 1229.1	2.52	1.5772	1223.0 1228.9	2.51	1.5765 1.5832	1222.8 1228.7	2.50 2.54	1.5758	1222.6 1228.6
430	2.62	1.5912	1234.9	2.60	1.5904	1234.8	2.59	1.5897	1234.6	2.57	1.5890	1234.5
450	2.66	1.5976	1240.7	2.64	1.5968	1240.6	2.63	1.5961	1240.4	2.61	1.5954	1240.3
460	2.69	1.6038	1246.5	2.68	1.6031	1246.3	2.66	1.6024	1246.2	2.65	1.6017	1246.0
470	2.73	1.6100	1252.2 1257.8	2.72	1.6093	1252.0 1257.7	2.70 2.74	1.6086 1.6146	1251.9	2.69	1.6079	1251.7
480 490	2.77 2.80	1.6219	1263.4	2.75 2.79	1.6213	1263.3	2.74	1.6206	1257.5 1263.1	2.76	1.6199	1257.4 1263.0
500	2.84	1.6277	1268.9	2.83	1.6271	1268.8	2.81	1.6264	1268.7	2.80	1.6257	1268.6
510	2.88	1.6335	1274.4	2.86	1.6328	1274.3	2.85	1.6321	1274.2	2.83	1.6315	1274.1
520	2.91	1.6391	1279.9	2.90	1.6384	1279.8	2.88	1.6377	1279.7	2.87	1.6371	1279.6
530	2.95	1.6446	1285.4	2.93	1.6439	1285.3 1290.7	2.92	1.6433	1285.2	2.90	1.6426	1285.1
540 550	2.99	1.6500	1290.8	2.97	1.6494		2.95	1.6487	1290.6	2.94		1290.5
560	3.02 3.05	1.6554	1296.2 1301.6	3.01 3.04	1.6548 1.6601	1296.1 1301.5	2.99 3.02	1.6541	1296.0 1301.4	2.97 3.00	1.6535 1.6588	1295.9
570	3.09	1.6659	1306.9	3.08	1.6653	1306.8	3.06	1.6646	1306.7	3.04	1.6640	1306.6
580	3.12	1.6710	1312.2	3.11	1.6704	1312.1	3.09	1.6698	1312.0	3.07	1.6691	1311.9
590	3.16	1.6761	1317.5	3.15	1.6755	1317.4	3.13	1.6749	1317.3	3.11	1.6742	1317.2
600	3.19	1.6811	1322.8	3.18	1.6805	1322.7	3.16	1.6799	1322.6	3.14	1.6792	1322.5
650	3.36	1.7053	1349.0	3.35	1.7047	1348.9	3.33	1.7041	1348.8	3.31	1.7034	1348.8
700 750	$3.53 \\ 3.69$	1.7282 1.7500	1374.9 1400.7	3.51 3.67	1.7275 1.7494	1374.9	3.49 3.65	1.7269	1374.8 1400.6	3.47 3.64	1.7263	1374.7
15-	55	1		0.1			0.00			0		
		107		-	100			100			000	
		197 [380.6]		6.	198 [381.0]			199 [381.4]			200 [381.9]	
Sat.	2.32		1198.3	2.31		1198.4	2.30		1198.4	2.29		1198.5
390	2.32 2.36	[380.6] 1.5469 1.5539	1198.3 1204.2	2.31	[381.0] 1.5464 1.5531	1198.4 1204.0	2.30	[381.4]	1198.4 1203.8	2.32	[381.9] 1.5456 1.5516	1203.6
390 400	2.36 2.40	[380.6] 1.5469 1.5539 1.5611	1204.2 1210.4	2.35 2.39	[381.0] 1.5464 1.5531 1.5603	1204.0 1210.2	2.34 2.38	[381.4] 1.5460 1.5524 1.5596	1203.8 1210.0	2.32 2.36	[381.9] 1.5456 1.5516 1.5589	1203.6 1209.8
390 400 410	2.36 2.40 2.44	[380.6] 1.5469 1.5539 1.5611 1.5681	1204.2 1210.4 1216.5	2.35 2.39 2.43	[381.0] 1.5464 1.5531 1.5603 1.5674	1204.0 1210.2 1216.3	2.34 2.38 2.42	[381.4] 1.5460 1.5524 1.5596 1.5667	1203.8 1210.0 1216.1	2.32 2.36 2.40	[381.9] 1.5456 1.5516 1.5589 1.5660	1203.6 1209.8 1215.9
390 400 410 420	2.36 2.40 2.44 2.48	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750	1204.2 1210.4 1216.5 1222.5	2.35 2.39 2.43 2.47	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743	1204.0 1210.2 1216.3 1222.3	2.34 2.38 2.42 2.46	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736	1203.8 1210.0 1216.1 1222.1	2.32 2.36 2.40 2.44	[381.9] 1.5456 1.5516 1.5589 1.5660 1.5729	1203.6 1209.8 1215.9 1221.9
390 400 410	2.36 2.40 2.44	[380.6] 1.5469 1.5539 1.5611 1.5681	1204.2 1210.4 1216.5	2.35 2.39 2.43	[381.0] 1.5464 1.5531 1.5603 1.5674	1204.0 1210.2 1216.3	2.34 2.38 2.42	[381.4] 1.5460 1.5524 1.5596 1.5667	1203.8 1210.0 1216.1	2.32 2.36 2.40	[381.9] 1.5456 1.5516 1.5589 1.5660	1203.6 1209.8 1215.9
390 400 410 420 430 440 450	2.36 2.40 2.44 2.48 2.52 2.56 2.60	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948	1204.2 1210.4 1216.5 1222.5 1228.4	2.35 2.39 2.43 2.47 2.51	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5810	1204.0 1210.2 1216.3 1222.3 1228.3	2.34 2.38 2.42 2.46 2.49	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5803	1203.8 1210.0 1216.1 1222.1 1228.1	2.32 2.36 2.40 2.44 2.48	[381.9] 1.5456 1.5516 1.5589 1.5660 1.5729 1.5796	1203.6 1209.8 1215.9 1221.9 1227.9
390 400 410 420 430 440 450 460	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.60	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5876 1.5876 1.5941 1.6004	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5803 1.5809 1.5934 1.5997	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59	[381.9] 1.5456 1.5516 1.5589 1.5660 1.5729 1.5796 1.5862 1.5862 1.5927 1.5990	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5
390 400 410 420 430 440 450 460 470	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.63 2.67	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5810 1.5876 1.5876 1.5941 1.6004 1.6066	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64	[381.4] 1.5460 1.5524 1.5596 1.5736 1.5803 1.5869 1.5934 1.5997 1.6059	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1251.3	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63	[381.9] 1.5456 1.5516 1.5589 1.5729 1.5796 1.5862 1.5927 1.5990 1.6052	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2
390 400 410 420 430 440 450 460 470 480	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.63 2.67 2.71	[380.6] 1.5469 1.5539 1.5611 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072 1.6133	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5810 1.5876 1.5941 1.6004 1.6066 1.6126	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68	[381.4] 1.5460 1.5524 1.5596 1.5736 1.5736 1.5803 1.5869 1.5934 1.5994 1.6059 1.6019	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1251.3 1257.0	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67	[381.9] 1.5456 1.5516 1.5589 1.5729 1.5796 1.5726 1.5729 1.5796 1.5927 1.5927 1.6920 1.6052 1.6113	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2 1256.9
390 400 410 420 430 440 450 460 470 480 490	2.36 2.40 2.44 2.52 2.56 2.60 2.63 2.67 2.71 2.74	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072 1.6133 1.6192	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5876 1.5876 1.5941 1.6006 1.6126 1.6126	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5803 1.5869 1.5934 1.5997 1.6059 1.6179	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1251.3 1257.0 1262.6	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70	[381.9] 1.5456 1.5516 1.5589 1.5729 1.5796 1.5729 1.5796 1.5862 1.5927 1.5990 1.6052 1.6172	1203.6 1209.8 1215.9 1227.9 1233.8 1239.7 1245.5 1251.2 1256.9 1262.5
390 400 410 420 430 440 450 460 470 480 490 500	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.63 2.67 2.71 2.74 2.78	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072 1.6133 1.6192 1.6251	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9 1268.5	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73 2.77	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5810 1.5876 1.5941 1.6004 1.6066 1.6126 1.6186 1.6244	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7 1268.3	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72 2.75	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5803 1.5803 1.5934 1.5997 1.6059 1.6179 1.6179 1.6237	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1251.3 1257.0 1262.6 1268.2	2.32 2.36 2.40 2.44 2.52 2.56 2.59 2.63 2.67 2.70 2.74	[381.9] 1.5456 1.5516 1.5589 1.5660 1.5729 1.5796 1.5862 1.5927 1.5990 1.6052 1.6113 1.6172 1.6231	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2 1256.9
390 400 410 420 430 440 450 460 470 480 490	2.36 2.40 2.44 2.52 2.56 2.60 2.63 2.67 2.71 2.74	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072 1.6133 1.6192	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5810 1.5876 1.5941 1.6066 1.6126 1.6186 1.6126 1.6186 1.6244 1.6301	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5803 1.5869 1.5934 1.5997 1.6059 1.6179	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1251.3 1257.0 1262.6	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70	[381.9] 1.5456 1.5516 1.5589 1.5729 1.5796 1.5729 1.5796 1.5862 1.5927 1.5990 1.6052 1.6172	1203.6 1209.8 1215.9 1221.9 1223.8 1233.8 1239.7 1245.5 1251.2 1256.9 1262.5 1268.1
390 410 420 430 440 460 460 470 480 490 510 510 520 530	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.63 2.67 2.71 2.74 2.78 2.82 2.85 2.89	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072 1.6133 1.6192 1.6251 1.6308 1.6308 1.6326	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1257.3 1262.9 1268.5 1274.0 1279.5 1284.9	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73 2.77 2.80 2.77 2.80 2.84 2.87	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5876 1.5941 1.6024 1.6126 1.6126 1.6126 1.6126 1.6126 1.6358 1.6413	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7 1268.3 1273.9 1279.4 1284.8	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72 2.75 2.75 2.75 2.82 2.86	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5803 1.5934 1.5997 1.6059 1.6119 1.6179 1.6225 1.6351 1.6407	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1251.3 1257.0 1262.6 1268.2 1273.7 1268.2 1273.7 1279.2 1284.7	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.63 2.67 2.70 2.74 2.74 2.74 2.81 2.84	[381.9] 1.5456 1.5516 1.5589 1.5660 1.5729 1.5796 1.5862 1.5927 1.5990 1.6052 1.6113 1.6172 1.6231 1.6288 1.6345 1.6400	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2 1256.9 1262.5 1268.1 1273.6 1279.1 1279.1
390 410 420 430 440 450 460 470 480 490 500 510 520 530 540	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.60 2.63 2.67 2.71 2.74 2.78 2.82 2.85 2.89 2.92	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5948 1.6071 1.6071 1.6072 1.6133 1.6192 1.6251 1.6308 1.6364 1.6420 1.6424	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9 1268.5 1274.0 1279.5 1284.9 1290.4	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73 2.77 2.80 2.84 2.87 2.91	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5810 1.5876 1.5941 1.6066 1.6126 1.6186 1.6244 1.6358 1.6433 1.6468	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7 1268.3 1273.9 1279.4 1284.8 1290.3	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72 2.75 2.79 2.82	[381.4] 1.5460 1.5524 1.5524 1.5567 1.5736 1.5803 1.5934 1.5937 1.6259 1.6119 1.6179 1.6237 1.6235 1.6351 1.6407 1.6462	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1257.0 1262.6 1268.2 1273.7 1279.2 1284.7 1290.2	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70 2.74 2.77 2.81 2.84 2.88	[381.9] 1.5456 1.5516 1.5556 1.5729 1.5862 1.5862 1.5927 1.5927 1.6929 1.6052 1.6113 1.6172 1.6231 1.6288 1.6345 1.6455	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2 1256.9 1262.5 1268.1 1273.6 1279.1 1284.6 1290.1
390 410 420 430 440 450 460 470 480 490 500 510 520 530 540 540	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.63 2.67 2.71 2.74 2.78 2.82 2.85 2.89 2.92 2.96	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5883 1.5948 1.6011 1.6072 1.6133 1.6192 1.6251 1.6308 1.6364 1.6420 1.6474 1.6528	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9 1268.5 1274.0 1279.5 1284.9 1290.4 1295.8	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.66 2.66 2.69 2.73 2.77 2.80 2.84 2.87 2.91 2.94	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5876 1.5876 1.5941 1.6004 1.6026 1.6126 1.6126 1.6126 1.6126 1.6126 1.6244 1.6358 1.6468 1.6522	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1268.3 1273.9 1279.4 1284.8 1290.3 1295.7	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72 2.75 2.79 2.82 2.86 2.89 2.93	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5863 1.5869 1.5934 1.5997 1.6997 1.6997 1.6179 1.6179 1.6237 1.6235 1.6407 1.6462 1.6515	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1251.3 1257.0 1262.6 1268.2 1273.7 1279.2 1284.7 1279.2 1284.7 1290.2	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70 2.74 2.77 2.81 2.84 2.88 2.91	[381.9] 1.5456 1.5516 1.5556 1.5729 1.5796 1.5796 1.5729 1.5927 1.5990 1.6173 1.6172 1.6231 1.6288 1.6345 1.6400 1.6455 1.6509	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2 1251.2 1262.5 1268.1 1273.6 1279.1 1284.6 1290.1 1295.5
390 410 420 430 440 460 460 460 470 500 510 520 530 540 550 560	2.36 2.40 2.44 2.52 2.56 2.60 2.63 2.67 2.71 2.74 2.78 2.82 2.85 2.89 2.92 2.96 2.99	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072 1.6133 1.6192 1.6251 1.6308 1.6364 1.6420 1.6474 1.6528 1.6528 1.6581	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9 1268.5 1274.0 1279.5 1284.9 1290.4 1290.4 1295.8 1301.2	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73 2.77 2.80 2.84 2.87 2.91 2.94 2.98	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5876 1.5941 1.6004 1.6066 1.6126 1.6126 1.6126 1.6126 1.6126 1.6358 1.6244 1.6358 1.6468 1.6522 1.6574	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7 1268.3 1273.9 1279.4 1284.8 1290.3 1295.7 1301.1	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72 2.75 2.75 2.79 2.82 2.86 2.89 2.89 2.93 2.96	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5803 1.5997 1.6297 1.6119 1.6237 1.6225 1.63251 1.6407 1.6462 1.6515 1.6568	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1251.3 1257.0 1262.6 1268.2 1273.7 1262.6 1273.7 1290.2 1284.7 1290.2 1295.6 1301.0	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70 2.74 2.77 2.81 2.84 2.88 2.91 2.95	[381.9] 1.5456 1.5516 1.5589 1.5660 1.5729 1.5796 1.5862 1.5927 1.5990 1.6013 1.6173 1.6173 1.6231 1.6238 1.6455 1.6400 1.6455 1.6509 1.6509	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2 1256.9 1262.5 1268.1 1273.6 1279.1 1284.6 1290.1 1295.5 1300.9
390 400 410 420 430 440 460 470 480 500 510 520 530 540 550 560 570	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.63 2.67 2.71 2.74 2.78 2.85 2.89 2.92 2.96 2.99 3.03	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072 1.6133 1.6192 1.6251 1.6368 1.6420 1.6474 1.6528 1.6581 1.6633	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9 1268.5 1274.0 1274.0 1274.0 1274.0 1279.5 1284.9 1290.4 1295.8 1301.2 1306.5	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73 2.77 2.80 2.84 2.87 2.91 2.94 2.98 3.01	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5876 1.5941 1.6024 1.6126 1.6126 1.6358 1.6433 1.6443 1.6468 1.6522 1.6574 1.6524	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7 1268.3 1273.9 1279.9 1279.9 1284.8 1290.3 1295.7 1301.1 1306.4	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.64 2.72 2.75 2.72 2.75 2.80 2.89 2.89 2.93 2.96 2.99	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5803 1.5934 1.5997 1.6237 1.6237 1.6295 1.6427 1.6455 1.6455 1.6515 1.6555	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1257.0 1262.6 1262.6 1268.2 1273.7 1279.2 1284.7 1290.2 1295.6 1301.0 1306.3	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70 2.74 2.77 2.81 2.84 2.88 2.91 2.95 2.98	[381.9] 1.5456 1.5516 1.5589 1.5729 1.5796 1.5729 1.5796 1.5927 1.5990 1.6052 1.6113 1.6172 1.6231 1.6288 1.6345 1.6400 1.6455 1.6509 1.6509 1.6564	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2 1256.9 1262.5 1268.1 1273.6 1273.6 1273.6 1279.1 1284.6 1290.1 1284.6 1290.1
390 410 420 430 440 460 460 460 470 500 510 520 530 540 550 560	2.36 2.40 2.44 2.52 2.56 2.60 2.63 2.67 2.71 2.74 2.78 2.82 2.85 2.89 2.92 2.96 2.99	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072 1.6133 1.6192 1.6251 1.6308 1.6364 1.6420 1.6474 1.6528 1.6528 1.6581	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9 1268.5 1274.0 1279.5 1284.9 1290.4 1290.4 1295.8 1301.2	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73 2.77 2.80 2.84 2.87 2.91 2.94 2.98	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5876 1.5941 1.6004 1.6066 1.6126 1.6126 1.6126 1.6126 1.6126 1.6358 1.6244 1.6358 1.6468 1.6522 1.6574	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7 1268.3 1279.9 1279.4 1284.8 1290.3 1295.7 1301.1	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72 2.75 2.75 2.79 2.82 2.86 2.89 2.89 2.93 2.96	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5803 1.5997 1.6297 1.6119 1.6237 1.6225 1.63251 1.6407 1.6462 1.6515 1.6568	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1251.3 1257.0 1262.6 1268.2 1273.7 1262.6 1273.7 1290.2 1284.7 1290.2 1295.6 1301.0	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70 2.74 2.77 2.81 2.84 2.88 2.91 2.95	[381.9] 1.5456 1.5516 1.5589 1.5660 1.5729 1.5796 1.5862 1.5927 1.5990 1.6013 1.6173 1.6173 1.6231 1.6238 1.6455 1.6400 1.6455 1.6509 1.6509	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2 1256.9 1262.5 1268.1 1273.6 1279.1 1284.6 1290.1 1295.5 1300.9
390 400 410 420 430 440 460 470 480 490 510 530 530 530 540 550 550 550	2.36 2.40 2.44 2.52 2.56 2.60 2.63 2.67 2.71 2.74 2.78 2.82 2.85 2.89 2.92 2.92 2.96 2.99 3.03 3.06 3.09	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072 1.6133 1.6192 1.6251 1.6328 1.6344 1.6528 1.6531 1.6633 1.6644 1.6538	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9 1268.5 1274.0 1279.5 1284.9 1290.4 1295.8 1301.2 1306.5 1311.8 1317.1	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73 2.77 2.80 2.84 2.87 2.91 2.94 2.98 3.01 3.04 3.08	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5876 1.5941 1.6004 1.6066 1.6126 1.6126 1.6126 1.6126 1.6126 1.6126 1.6244 1.6358 1.6468 1.6522 1.6574 1.6626 1.6626 1.6627 1.6627 1.6627	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7 1268.3 1279.4 1284.8 1290.3 1295.7 1301.1 1306.4 1311.7 1317.0	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72 2.75 2.79 2.82 2.86 2.89 2.93 2.96 2.99 3.03 3.06	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5803 1.5997 1.6295 1.6119 1.6179 1.6237 1.62357 1.62351 1.6462 1.6515 1.6568 1.6568 1.6562 1.6572 1.6723	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1257.0 1262.6 1268.2 1273.7 1279.2 1284.7 1290.2 1295.6 1301.0 1306.3 1311.7 1317.0	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70 2.74 2.77 2.81 2.84 2.88 2.91 2.95 2.98 3.01 3.05	[381.9] 1.5456 1.5516 1.5589 1.5660 1.5729 1.5796 1.5927 1.5990 1.6113 1.6172 1.6231 1.6238 1.6455 1.6455 1.6509 1.6552 1.6614 1.6666 1.6717	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2 1251.2 1262.5 1268.1 1273.6 1279.1 1284.6 1290.1 1295.5 1300.9 1306.2 1311.6 1316.9
390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 540 550 550 550 550	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.63 2.67 2.71 2.74 2.78 2.82 2.82 2.82 2.89 2.92 2.96 2.99 3.03 3.06	[380.6] 1.5469 1.5539 1.5539 1.5611 1.5681 1.5750 1.5877 1.5883 1.5948 1.6071 1.6072 1.6133 1.6192 1.6251 1.6308 1.6364 1.6420 1.6474 1.6528 1.6581 1.6684	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1245.9 1251.6 1257.3 1262.9 1268.5 1274.0 1279.5 1274.0 1279.5 1274.0 1279.5 1284.9 1290.4 1290.4 1290.4 1290.4 1290.5 1311.8	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73 2.77 2.80 2.87 2.91 2.91 2.94 2.98 3.01 3.04	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5876 1.5941 1.6064 1.6126 1.6126 1.6126 1.6126 1.6138 1.6224 1.6358 1.6458 1.64522 1.6574 1.6626 1.6626	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7 1268.3 1273.9 1279.4 1284.8 1290.3 1295.7 1301.1 1306.4 1311.7	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72 2.75 2.79 2.82 2.86 2.89 2.93 2.93 2.99 3.03	[381.4] 1.5460 1.5524 1.5524 1.5567 1.5736 1.5863 1.5869 1.5934 1.5997 1.6259 1.6119 1.6277 1.6295 1.6351 1.6407 1.64515 1.6568 1.6528	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1251.3 1257.0 1262.6 1268.2 1273.7 1279.2 1279.2 1284.7 1290.2 1295.6 1301.0 1306.3 1311.7	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70 2.74 2.77 2.84 2.88 2.88 2.91 2.95 2.98 3.01	[381.9] 1.5456 1.5516 1.5516 1.5589 1.5660 1.5729 1.5796 1.5796 1.5796 1.5796 1.5927 1.5927 1.6920 1.6052 1.6113 1.6172 1.6231 1.6288 1.6345 1.6455 1.6509 1.6662 1.6666	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1251.2 1256.9 1262.5 1268.1 1273.6 1279.1 1284.6 1290.1 1295.5 1300.9 1306.2 1311.6
390 400 410 420 430 440 460 470 480 490 500 520 530 540 550 550 560 560 560 560 590 600 650 700	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.63 2.67 2.71 2.74 2.78 2.85 2.89 2.92 2.96 2.99 3.06 3.09 3.13 3.29 3.46	[380.6] 1.5469 1.5539 1.5611 1.5681 1.5750 1.5817 1.5883 1.5948 1.6011 1.6072 1.6133 1.6192 1.6251 1.6308 1.6364 1.6420 1.6474 1.6528 1.6581 1.6633 1.6684 1.6633 1.6684 1.6735 1.6786 1.7028 1.7257	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9 1268.5 1274.0 1279.5 1284.9 1290.4 1295.8 1301.2 1306.5 1311.8 1317.1 1322.5 1348.7 1374.7	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73 2.77 2.80 2.84 2.87 2.91 2.94 2.94 2.98 3.01 3.04 3.08 3.11 3.28 3.44	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5870 1.5941 1.6066 1.6126 1.6126 1.6126 1.6126 1.6126 1.6126 1.6358 1.6433 1.6458 1.6574 1.66226 1.6678 1.6678 1.6729 1.6780 1.7251	1204.0 1210.2 1216.3 1222.3 1224.2 1240.0 1245.7 1251.5 1257.5 1262.7 1268.3 1279.4 1284.8 1290.3 1295.7 1301.1 1306.4 1311.7 1317.0 1322.4 1348.6	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.68 2.72 2.75 2.79 2.82 2.86 2.89 2.93 2.96 2.93 2.96 2.99 3.06 3.10 3.26 3.42	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5869 1.5934 1.5997 1.6059 1.6179 1.6237 1.6255 1.6407 1.6462 1.6515 1.6568 1.6525 1.6568 1.6572 1.6774 1.7245	1203.8 1210.0 1216.1 1222.1 1224.0 1239.8 1245.6 1257.0 1262.6 1268.2 1273.7 1279.2 1284.7 1290.2 1295.6 1301.0 1302.3 1311.7 1317.0 1322.3 1348.6 1374.6	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70 2.74 2.77 2.81 2.84 2.88 2.91 2.95 2.98 3.01 3.05 3.08 3.24 3.40	[381.9] 1.5456 1.5516 1.5589 1.5660 1.5729 1.5862 1.5927 1.5990 1.6052 1.6113 1.6172 1.6231 1.6288 1.6345 1.6400 1.6455 1.6509 1.6562 1.6614 1.6664 1.6614 1.6664 1.66777 1.6768 1.7219	1203.6 1209.8 1215.9 1221.9 1227.9 1233.8 1239.7 1245.5 1256.9 1262.5 1268.1 1273.6 1279.1 1284.6 1290.1 1295.5 1306.9 1306.2 1311.6 1316.9 1322.2 1348.5 1374.5
390 400 410 420 430 440 460 470 480 500 510 530 530 540 550 550 550 550 550 560 550 600 650	2.36 2.40 2.44 2.48 2.52 2.56 2.60 2.63 2.67 2.71 2.74 2.78 2.82 2.82 2.89 2.92 2.96 2.99 3.03 3.06 3.09 3.13 3.29	[380.6] 1.5469 1.5539 1.5539 1.5611 1.5681 1.5750 1.5873 1.5948 1.6011 1.6072 1.6133 1.6192 1.6251 1.6308 1.6364 1.6420 1.6474 1.6528 1.6683 1.6684 1.6735 1.6786 1.7028	1204.2 1210.4 1216.5 1222.5 1228.4 1234.3 1240.1 1245.9 1251.6 1257.3 1262.9 1268.5 1274.0 1274.0 1274.0 1274.9 1290.4 1295.8 1301.2 1306.5 1311.8 1317.1 1322.5 1348.7	2.35 2.39 2.43 2.47 2.51 2.55 2.58 2.62 2.66 2.69 2.73 2.77 2.80 2.84 2.87 2.91 2.94 2.98 3.01 3.04 3.08 3.11 3.28	[381.0] 1.5464 1.5531 1.5603 1.5674 1.5743 1.5876 1.5941 1.6064 1.6126 1.6126 1.6126 1.6126 1.6126 1.6358 1.6443 1.6468 1.6522 1.6574 1.6626 1.6678 1.6678 1.6729 1.6780 1.7022	1204.0 1210.2 1216.3 1222.3 1228.3 1234.2 1240.0 1245.7 1251.5 1257.1 1262.7 1268.3 1279.4 1279.4 1284.8 1290.3 1295.7 1301.1 1306.4 1311.7 1317.0 1322.4 1348.6	2.34 2.38 2.42 2.46 2.49 2.53 2.57 2.61 2.64 2.64 2.72 2.75 2.86 2.89 2.93 2.96 2.99 3.03 3.06 3.10 3.26	[381.4] 1.5460 1.5524 1.5596 1.5667 1.5736 1.5863 1.5934 1.5997 1.6295 1.6119 1.6179 1.6237 1.6295 1.6351 1.6467 1.6515 1.6568 1.6572 1.6723 1.6774 1.7016	1203.8 1210.0 1216.1 1222.1 1228.1 1234.0 1239.8 1245.6 1257.0 1262.6 1268.2 1279.2 1279.2 1295.6 1301.0 1306.3 1311.7 1317.0 1322.3 1348.6	2.32 2.36 2.40 2.44 2.48 2.52 2.56 2.59 2.63 2.67 2.70 2.74 2.77 2.81 2.84 2.88 2.91 2.95 2.98 3.01 3.05 3.08 3.24	[381.9] 1.5456 1.5516 1.5516 1.5589 1.5729 1.5796 1.5796 1.5792 1.5796 1.5792 1.5796 1.5792 1.6796 1.6231 1.6238 1.6345 1.6455 1.6455 1.6509 1.6562 1.6666 1.6717 1.6768 1.7010	1203.6 1209.8 1215.9 1221.9 1227.9 1223.8 1239.7 1245.5 1256.9 1262.5 1268.1 1273.6 1273.6 1273.6 1273.6 1279.1 1284.6 1290.1 1285.5 1300.9 1306.2 1311.6 1316.9 1322.2 1348.5

Pres- sure		201 [382.3]			202 r [382.7]			203 [383.1]			204	
Temp ° F.	v	S	i		S	i	v	S	i	v	8	i
Sat.	2.28	1.5451	1198.5	2.27	1.5447	1198.6	2.26	1.5443	1198.6	2.25	1.5438	1198.7
390	2.31	1.5509	1203.4	2.30	1.5501	1203.2	2.29	1.5494	1 203.0	2.27	1.5487	1202.8
400	2.35	1.5581	1209.6	2.34	1.5574	Į 209.4	2.33	1.5567	1209.2	2.31	1.5560	1209.0
410 420	2.39 2.43	1.5652	1215.7	2.38	1.5645	1215.5	2.37 2.40	1.5638 1.5707	1215.3 1221.4	2.35	1.5631	1215.2 1221.3
430	2.47	1.5789	1227.8	2.45	1.5782	1227.6	2.44	1.5775	1227.4	2.43	1.5768	1227.3
440	2.50	1.5855	1233.7	2.49	1.5848	1233.5	2.48	1.5841	1233.3	2.47	1.5835	1233.2
450	2.54	1.5920	1239.5	2.53	1.5913	1239.4	2.52	1.5906	1239.2	2.50	1.5900	1239.1
460 470	2.58 2.62	1.5983 1.6045	1245.3 1251.0	2.57 2.60	1.5976 1.6038	1245.2 1250.9	2.55	1.5970 1.6032	1245.0	2.54	1.5963 1.6025	1244.9
480	2.65	1.6106	1256.7	2.64	1.6099	1256.6	2.59 2.62	1.6093	1250.8 1256.5	2.57 2.61	1.6086	1250.6 1256.3
490	2.69	1.6166	1262.4	2.67	1.6159	1262.2	2.66	1.6153	1262.1	2.65	1.6146	1262.0
500	2.72	1.6224	1268.0	2.71	1.6218	1267.8	2.69	1.6211	1267.7	2.68	1.6205	1267.6
510	2.76	1.6282	1273.5	2.74	1.6275	1273.4	2.73	1.6269	1273.3	2.72	1.6263	1273.2
520 530	2.79 2.83	1.6338 1.6394	1279.0 1284.5	2.78 2.81	1.6332 1.6388	1278.9 1284.4	2.76 2.80	1.6326 1.6381	1278.8 1284.3	2.75 2.78	1.6319 1.6375	1278.7
540	2.86	1.6449	1290.0	2.85	1.6443	1289.9	2.83	1.6436	1289.8	2.82	1.6430	1289.7
550	2.90	1.6503	1295.4	2.88	1.6497	1295.3	2.87	1.6490	1295.2	2.85	1.6484	1295.1
560	2.93	1.6556	1300.8	2.92	1.6550	1300.7	2.90	1.6544	1300.6	2.89	1.6537	1300.5
570	2.96	1.6608 1.6660	1306.1	2.95	1.6602	1306.0	2.93	1.6596	1306.0	2.92	1.6590	1305.9
580 590	3.00 3.03	1.6711	1311.5 1316.8	2.98 3.02	1.6654 1.6705	1311.4 1316.7	2.97 3.00	1.6648 1.6699	1311.3 1316.6	2.95 2.98	1.6642 1.6693	1311.2 1316.6
600	3.06	1.6762	1322.1	3.05	1.6755	1322.1	3.03	1.6749	1322.0	3.02	1.6743	1321.9
650	3.23	1.7004	1348.4	3.21	1.6998	1348.4	3.19	1.6992	1348.3	3.18	1.6986	1348.2
700	3.39	1.7234	1374.5	3.37	1.7228	1374.4	3.35	1.7222	1374.4	3.34	1.7216	1374.3
750	3.55	1.7452	1400.3	3.53	1.7447	1400.3	3.51	1.7441	1400.2	3.49	1.7435	1400.2
	-											l
		205 [383.9]			206 [384.4]			207 [384.8]			208 [385.2]	·
Sat.	2.24		1198.7	2.23		1198.8	2.22		1198.8	2.21		1198.9
Sat. 390	2.24 2.26	[383.9]	1198.7 1202.6	2.23	[384.4]	1198.8 1202.4	2.22	[384.8]	1198.8	2.21	[385.2]	1198.9 1202.0
		[383.9] 1.5434			[384.4] 1.5430			[384.8] 1.5425			[385.2] 1.5421	
390 400 410	2.26 2.30 2.34	[383.9] 1.5434 1.5479 1.5552 1.5624	1202.6 1208.8 1215.0	2.25 2.29 2.33	[384.4] 1.5430 1.5472 1.5545 1.5617	1202.4 1208.6 1214.8	2.24 2.28 2.32	[384.8] 1.5425 1.5465 1.5538 1.5610	1202.2 1208.4 1214.6	2.23 2.26 2.30	[385.2] 1.5421 1.5457 1.5531 1.5603	1202.0 1208.2 1214.4
390 400 410 420	2.26 2.30 2.34 2.38	[383.9] 1.5434 1.5479 1.5552 1.5624 1.5693	1202.6 1208.8 1215.0 1221.1	2.25 2.29 2.33 2.37	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687	1202.4 1208.6 1214.8 1220.9	2.24 2.28 2.32 2.35	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680	1202.2 1208.4 1214.6 1220.7	2.23 2.26 2.30 2.34	[385.2] 1.5421 1.5457 1.5531 1.5603 1.5673	1202.0 1208.2 1214.4 1220.5
390 400 410	2.26 2.30 2.34	[383.9] 1.5434 1.5479 1.5552 1.5624	1202.6 1208.8 1215.0	2.25 2.29 2.33	[384.4] 1.5430 1.5472 1.5545 1.5617	1202.4 1208.6 1214.8	2.24 2.28 2.32	[384.8] 1.5425 1.5465 1.5538 1.5610	1202.2 1208.4 1214.6	2.23 2.26 2.30	[385.2] 1.5421 1.5457 1.5531 1.5603	1202.0 1208.2 1214.4
390 400 410 420 430	2.26 2.30 2.34 2.38 2.42 2.45	[383-9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5761 1.5828	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0	2.25 2.29 2.33 2.37 2.40 2.44	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9	2.24 2.28 2.32 2.35 2.39 2.43	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5814	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7	2.23 2.26 2.30 2.34 2.38 2.41	[385.2] 1.5421 1.5457 1.5531 1.5603 1.5673 1.5741 1.5807	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5
390 400 410 420 430 440	2.26 2.30 2.34 2.38 2.42	[383.9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5761 1.5828 1.5893	1202.6 1208.8 1215.0 1221.1 1227.1	2.25 2.29 2.33 2.37 2.40	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755	1202.4 1208.6 1214.8 1220.9 1226.9	2.24 2.28 2.32 2.35 2.39	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748	1202.2 1208.4 1214.6 1220.7 1226.7	2.23 2.26 2.30 2.34 2.38	[385.2] 1.5421 1.5457 1.5531 1.5603 1.5673 1.5741	1202.0 1208.2 1214.4 1220.5 1226.6
390 400 410 420 430 440 450 460 470	2.26 2.30 2.34 2.38 2.42 2.45 2.45 2.49 2.53 2.56	[383-9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5761 1.5828 1.5893 1.58956 1.6019	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7 1250.5	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51 2.55	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6012	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6 1250.3	2.24 2.28 2.32 2.35 2.39 2.43 2.43 2.47 2.50 2.53	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5814 1.5879 1.5943 1.6005	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4 1250.2	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52	[385.2] 1.5421 1.5457 1.5531 1.5603 1.5673 1.5741 1.5807 1.5872 1.5872 1.5936 1.5999	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1244.3 1250.1
390 400 410 420 430 440 450 460	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53	[383.9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5761 1.5828 1.5893 1.5956	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5814 1.5879 1.5943	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49	[385.2] 1.5421 1.5457 1.5531 1.5603 1.5673 1.5741 1.5807 1.5872 1.5936	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1244.3
390 400 410 420 430 440 450 460 470 480	2.26 2.30 2.34 2.38 2.42 2.45 2.45 2.49 2.53 2.56 2.60 2.63	[383:9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5761 1.5828 1.5893 1.5956 1.6019 1.6080 1.6140	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7 1250.5 1256.2 1261.8	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51 2.55 2.58 2.62	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6012 1.6073 1.6133	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6 1250.3 1256.0 1261.7	2.24 2.28 2.32 2.35 2.43 2.43 2.47 2.50 2.53 2.57 2.61	[384.8] 1.5425 1.5425 1.5545 1.5538 1.5610 1.5680 1.5748 1.5814 1.5879 1.5943 1.6005 1.6127	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4 1250.2 1255.9 1261.6	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59	[385.2] I.5421 I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5807 I.5872 I.5936 I.5999 I.60600 I.6120	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1244.3 1250.1 1255.8 1261.5
390 400 410 420 430 440 450 460 470 480 490	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.56 2.60	[383.9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5761 1.5828 1.5893 1.5936 1.6019 1.6080	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7 1250.5 1256.2	2.25 2.29 2.33 2.37 2.40 2.44 2.44 2.48 2.51 2.55 2.58	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6012 1.6073	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6 1250.3 1256.0	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.57	[384.8] 1.5425 1.5425 1.5465 1.5538 1.5680 1.5680 1.5748 1.5814 1.5879 1.6005 1.6007	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4 1250.2 1255.9	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56	[385.2] 1.5421 1.5421 1.5531 1.5603 1.5673 1.5741 1.5807 1.5872 1.5936 1.5999 1.6060	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1244.3 1250.1 1255.8
390 400 410 420 430 440 440 460 470 480 490 500 510 520	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.56 2.60 2.63 2.67 2.70 2.74	[383:9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5956 1.5956 1.6039 1.6080 1.6140 1.6199 1.6256 1.6313	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7 1250.5 1256.2 1256.2 1261.8 1267.4 1273.0	2.25 2.29 2.33 2.37 2.40 2.44 2.44 2.55 2.55 2.58 2.62 2.65 2.69 2.72	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6073 1.6133 1.6192 1.6250 1.6307	1202.4 1208.6 1214.8 1220.9 1232.9 1238.8 1244.6 1250.3 1256.0 1261.7 1267.3 1272.9 1278.5	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.57 2.61 2.64 2.67 2.71	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5814 1.5879 1.5943 1.6005 1.6067 1.6127 1.6186 1.6223 1.6300	1202.2 1208.4 1214.6 1220.7 1226.7 1238.6 1244.4 1250.2 1255.9 1261.6 1267.2 1272.8 1278.3	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.69	[385:2] I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5807 I.5872 I.5936 I.5936 I.6020 I.60120 I.6179 I.6237 I.6294	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1244.3 1255.8 1261.5 1267.1 1272.7 1278.2
390 400 410 420 430 440 450 460 470 480 490 500 510 520 530	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.56 2.60 2.63 2.67 2.70 2.74 2.77	[383.9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5761 1.5828 1.5893 1.5956 1.6039 1.6080 1.6140 1.6199 1.6256 1.6313 1.6369	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7 1250.5 1256.2 1261.8 1267.4 1278.6 1278.6 1278.6	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51 2.55 2.58 2.62 2.65 2.65 2.65 2.72 2.76	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6073 1.6133 1.6133 1.6192 1.6250 1.6307 1.6362	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6 1250.3 1256.0 1261.7 1267.3 1272.9 1272.9 1278.5	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.61 2.64 2.64 2.67 2.71 2.74	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5814 1.5879 1.5943 1.6005 1.6127 1.6186 1.6243 1.6320 1.6325	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4 1250.2 1255.9 1261.6 1267.2 1272.8 1272.8 1272.8 1278.3	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.69 2.73	[385.2] I.5421 I.5421 I.5457 I.5531 I.5603 I.5741 I.5807 I.5872 I.5999 I.6060 I.6120 I.6179 I.6237 I.6224 I.6350	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1244.3 1250.1 1255.8 1261.5 1267.1 1272.7 1278.2 1283.7
390 410 420 430 440 450 460 470 480 490 500 510 520 530 540	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.56 2.60 2.63 2.67 2.70 2.74 2.77 2.80	[383:9] 1.5434 1.5479 1.5552 1.5624 1.5956 1.5956 1.6019 1.6080 1.6140 1.6199 1.6256 1.6313 1.6369 1.6369 1.6344	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7 1250.5 1256.2 1256.2 1261.8 1267.4 1273.0	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.55 2.58 2.62 2.65 2.69 2.72 2.76 2.79	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6073 1.6133 1.6192 1.6250 1.6307	1202.4 1208.6 1214.8 1220.9 1232.9 1238.8 1244.6 1250.3 1256.0 1261.7 1267.3 1272.9 1278.5	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.57 2.61 2.64 2.67 2.71 2.74 2.78	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5879 1.5943 1.6005 1.6067 1.6127 1.6186 1.6243 1.6350 1.6356 1.6411	1202.2 1208.4 1214.6 1220.7 1226.7 1238.6 1244.4 1250.2 1255.9 1261.6 1267.2 1272.8 1278.3	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.69 2.73 2.76	[385:2] I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5872 I.5939 I.6060 I.6120 I.6120 I.6129 I.6237 I.6294 I.6350 I.605	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1255.8 1255.8 1261.5 1267.1 1272.7 1278.2
390 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.53 2.60 2.63 2.60 2.63 2.67 2.70 2.74 2.77 2.80 2.84	[383:9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5761 1.5828 1.5893 1.5956 1.6959 1.6049 1.6256 1.6313 1.6369 1.6424 1.6478	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7 1250.5 1256.2 1256.2 1261.8 1267.4 1273.0 1278.6 1284.1 1289.6 1289.6 1295.0	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51 2.55 2.58 2.62 2.65 2.69 2.72 2.76 2.79 2.82	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6012 1.6012 1.6250 1.6307 1.6362 1.6347 1.6472	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6 1256.0 1256.0 1256.0 1261.7 1267.3 1272.9 1278.5 1284.0 1289.5 1284.9	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.57 2.61 2.64 2.67 2.71 2.74 2.78 2.81	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5814 1.5879 1.5943 1.6047 1.6186 1.6243 1.6356 1.6411 1.6466	1202.2 1208.4 1214.6 1220.7 1226.7 1238.6 1244.4 1250.2 1255.9 1261.6 1267.2 1272.8 1278.3 1283.8 1289.3 1289.3	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.80	[385:2] I.5421 I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5807 I.5872 I.5936 I.5939 I.6060 I.6120 I.6179 I.6237 I.6294 I.6350 I.6405 I.6459	1202.0 1208.2 1214.4 1220.5 1232.5 1238.4 1244.3 1255.8 1255.8 1261.5 1267.1 1272.7 1278.2 1283.7 1289.2 1294.7
390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.56 2.60 2.60 2.63 2.67 2.70 2.74 2.77 2.80 2.84 2.87	[383:9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5956 1.6935 1.6080 1.6140 1.6199 1.6256 1.6313 1.6369 1.6424 1.6478 1.6478 1.6531	1202.6 1208.8 1215.0 1221.1 1227.1 1223.0 1238.9 1244.7 1250.5 1250.5 1261.8 1267.4 1273.0 1278.6 1278.6 1278.6 1278.6 1284.1 1289.6 1295.0 1300.4	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51 2.55 2.58 2.62 2.65 2.69 2.72 2.76 2.79 2.82 2.86	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6012 1.6073 1.6192 1.6250 1.6307 1.6362 1.6417 1.6472 1.6525	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6 1250.3 1256.0 1261.7 1267.3 1272.9 1278.5 1284.0 1278.5 1284.5 1289.5 1294.9 1300.3	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.61 2.64 2.67 2.71 2.74 2.78 2.81 2.84	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5814 1.5879 1.5943 1.6005 1.6127 1.6186 1.6243 1.6356 1.6411 1.6466 1.6519	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4 1250.2 125.9 1261.6 1267.2 1272.8 1272.8 1278.3 1283.8 1289.3 1289.3 1294.8 1300.2	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.80 2.83	[385.2] I.5421 I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5807 I.5872 I.5936 I.5999 I.6060 I.6120 I.6179 I.6237 I.6254 I.6350 I.6455 I.6455 I.6455 I.6513	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1244.3 1255.8 1261.5 1261.5 1267.1 1272.7 1278.2 1283.7 1278.2 1283.7 1289.2 1294.7 1300.1
390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.56 2.60 2.63 2.67 2.70 2.67 2.70 2.74 2.77 2.80 2.84 2.87 2.90	[383.9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5761 1.5828 1.5936 1.6933 1.5956 1.6039 1.6140 1.6199 1.6253 1.6313 1.6369 1.6424 1.6478 1.6531 1.6584	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7 1250.5 1256.2 1261.8 1267.4 1278.6 1278.6 1278.6 1284.1 1289.6 1284.1 1289.6 1295.0 1300.4 1305.8	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51 2.55 2.58 2.62 2.65 2.62 2.72 2.76 2.79 2.82 2.86 2.89	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6073 1.6133 1.6192 1.6250 1.6307 1.6362 1.6417 1.6525 1.6578	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6 1250.3 1256.0 1261.7 1267.3 1272.9 1278.5 1284.0 1289.5 1284.0 1289.5 1294.9 1300.3 1305.7	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.57 2.64 2.64 2.67 2.71 2.74 2.78 2.81 2.84 2.87	[384.8] 1.5425 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5814 1.5879 1.5943 1.6005 1.6007 1.6127 1.6186 1.6243 1.6356 1.63411 1.6466 1.6519 1.6572	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4 1250.2 1255.9 1261.6 1267.2 1272.8 1283.8 1289.3 1289.3 1289.3 1294.8 1300.2 1305.6	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.80 2.83 2.86	[385.2] I.5421 I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5807 I.5872 I.5936 I.5999 I.6060 I.6120 I.6179 I.6237 I.6294 I.6350 I.6405 I.6459 I.6553 I.6555	1202.0 1208.2 1214.4 1220.5 1232.5 1238.4 1244.3 1255.8 1261.5 1267.1 1278.2 1283.7 1283.7 1289.2 1294.7 1300.1 1305.5
390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.56 2.60 2.60 2.63 2.67 2.70 2.74 2.77 2.80 2.84 2.87	[383:9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5956 1.6935 1.6080 1.6140 1.6199 1.6256 1.6313 1.6369 1.6424 1.6478 1.6478 1.6531	1202.6 1208.8 1215.0 1221.1 1227.1 1223.0 1238.9 1244.7 1250.5 1250.5 1261.8 1267.4 1273.0 1278.6 1278.6 1278.6 1278.6 1284.1 1289.6 1295.0 1300.4	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51 2.55 2.58 2.62 2.65 2.69 2.72 2.76 2.79 2.82 2.86	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6012 1.6073 1.6192 1.6250 1.6307 1.6362 1.6417 1.6472 1.6525	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6 1250.3 1256.0 1261.7 1267.3 1272.9 1278.5 1284.0 1278.5 1284.5 1289.5 1294.9 1300.3	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.61 2.64 2.67 2.71 2.74 2.78 2.81 2.84	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5814 1.5879 1.5943 1.6005 1.6127 1.6186 1.6243 1.6356 1.6411 1.6466 1.6519	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4 1250.2 125.9 1261.6 1267.2 1272.8 1272.8 1278.3 1283.8 1289.3 1289.3 1294.8 1300.2	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.80 2.83	[385.2] I.5421 I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5807 I.5872 I.5936 I.5999 I.6060 I.6120 I.6179 I.6237 I.6254 I.6350 I.6455 I.6455 I.6455 I.6513	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1244.3 1255.8 1261.5 1261.5 1267.1 1272.7 1278.2 1283.7 1278.2 1283.7 1289.2 1294.7 1300.1
390 400 410 420 430 440 450 450 450 450 500 510 530 550 550 550 550 550 550	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.56 2.60 2.63 2.60 2.63 2.67 2.70 2.74 2.77 2.80 2.84 2.87 2.90 2.94 2.97	[383.9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5956 1.5956 1.6140 1.6140 1.6199 1.6256 1.6313 1.6369 1.6424 1.6478 1.6531 1.6584 1.6584 1.6584 1.6636 1.6636	1202.6 1208.8 1215.0 1221.1 1227.1 1223.0 1238.9 1244.7 1256.2 1256.2 1256.2 1261.8 1267.4 1273.0 1278.6 1278.6 1278.6 1278.6 1284.1 1289.6 1295.0 1300.4 1305.8 1311.1 1316.5	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51 2.55 2.58 2.62 2.65 2.72 2.76 2.72 2.76 2.79 2.82 2.86 2.89 2.92 2.95	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6073 1.6133 1.6192 1.6250 1.6307 1.6362 1.6347 1.6472 1.6525 1.6578 1.6578 1.6630 1.6681	1202.4 1208.6 1214.8 1220.9 1232.9 1238.8 1244.6 1250.3 1256.0 1261.7 1267.3 1272.9 1278.5 1284.0 1289.5 1289.5 1294.9 1300.3 1305.7 1311.1 1316.4	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.61 2.64 2.67 2.71 2.74 2.78 2.81 2.84 2.87 2.91 2.94	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5814 1.5879 1.5943 1.6057 1.6127 1.6186 1.6243 1.6356 1.6411 1.6466 1.6519 1.6572 1.6624 1.6624 1.6625	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4 1250.2 1255.9 1261.6 1267.2 1272.8 1278.3 1283.8 1278.3 1289.3 1294.8 1300.2 1395.6 1311.0 1316.3	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.59 2.63 2.66 2.69 2.73 2.76 2.80 2.83 2.86 2.89 2.93	[385:2] I.5421 I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5807 I.5872 I.5936 I.5999 I.6206 I.6120 I.6179 I.6237 I.6294 I.6350 I.6455 I.6455 I.6455 I.6455 I.6565 I.6617 I.6669	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1244.3 1255.8 1261.5 1267.1 1272.7 1278.2 1283.7 1278.2 1283.7 1278.2 1283.7 1278.2 1283.7 1278.2 1294.7 1305.5 1310.9 1316.2
390 400 410 420 430 440 450 460 470 480 490 510 520 530 540 550 560 570 580 580	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.56 2.60 2.63 2.67 2.70 2.77 2.70 2.77 2.80 2.84 2.87 2.90 2.94	[383:9] 1.5434 1.5479 1.5552 1.5624 1.5956 1.5956 1.6019 1.60424 1.6199 1.6256 1.6313 1.6369 1.6424 1.6478 1.6531 1.6531 1.6531 1.6536	1202.6 1208.8 1215.0 1221.1 1227.1 1223.0 1238.9 1244.7 1250.5 1256.2 1261.8 1267.4 1273.6 1278.6 1284.1 1289.6 1295.0 1300.4 1305.8 1311.1	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51 2.55 2.58 2.62 2.65 2.69 2.72 2.76 2.79 2.82 2.86 2.89 2.92	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6073 1.6133 1.6192 1.6250 1.6307 1.6472 1.6472 1.6525 1.6578	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6 1250.3 1256.0 1261.7 1267.3 1272.9 1278.5 1284.0 1289.5 1284.0 1289.5 1294.9 1300.3 1305.7 1311.1 1316.4 1321.7	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.57 2.61 2.64 2.67 2.74 2.74 2.78 2.81 2.84 2.87 2.91	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5879 1.5943 1.6005 1.6067 1.6127 1.6186 1.6243 1.6356 1.6411 1.64666 1.6519 1.6572	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4 1250.2 1255.9 1261.6 1267.2 1272.8 1272.8 1272.8 1283.8 1289.3 1289.3 1289.4 1300.2 1305.6 1311.0	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.80 2.83 2.86 2.89	[385:2] I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5897 I.5892 I.5999 I.6060 I.6120 I.6179 I.6237 I.6294 I.6350 I.6459 I.6513 I.6565 I.6617	1202.0 1208.2 1214.4 1220.5 1226.6 1232.5 1238.4 1244.3 1250.1 1255.8 1261.5 1267.1 1272.7 1278.2 1283.7 1289.2 1289.2 1294.7 1300.1 1305.5 1310.9
390 400 410 420 430 440 450 450 470 470 480 470 520 530 520 530 540 550 550 550 550 600 650 700	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.60 2.63 2.60 2.63 2.67 2.70 2.74 2.77 2.80 2.84 2.87 2.94 2.97 3.00 3.16 3.32	[383.9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5828 1.5893 1.5856 1.6140 1.6199 1.6256 1.6313 1.6369 1.6256 1.6373 1.6534 1.6637 1.6637 1.6637 1.6931 1.7211	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7 1256.2 1256.2 1256.2 1256.2 1256.3 1278.6 1273.0 1278.6 1273.0 1278.6 1284.1 1289.6 1300.4 1305.8 1301.1 1316.5 1321.8 1348.2 1374.3	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.55 2.58 2.62 2.65 2.72 2.76 2.79 2.82 2.86 2.89 2.92 2.95 2.99 3.15 3.30	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5821 1.5886 1.5950 1.6012 1.6012 1.6250 1.6307 1.6133 1.6192 1.6250 1.6307 1.6362 1.6417 1.6472 1.6525 1.6578 1.6631 1.6673 1.6673 1.6975 1.7205	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1246.6 1256.0 1261.7 1267.3 1272.9 1278.5 1284.0 1289.5 1294.9 1300.3 1305.7 1311.1 1316.4 1321.7 1348.1 1374.2	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.57 2.61 2.64 2.67 2.71 2.74 2.78 2.81 2.84 2.81 2.84 2.81 2.91 2.94 2.91 3.29	[384.8] 1.5425 1.5465 1.5538 1.5610 1.5680 1.5748 1.5879 1.5943 1.6005 1.6007 1.6127 1.6186 1.6243 1.6356 1.6411 1.6466 1.6572 1.6657 1.6675 1.6675 1.6675 1.6675 1.6675 1.6725 1.6969 1.7199	1202.2 1208.4 1214.6 1220.7 1232.7 1238.6 1244.4 1250.2 1255.9 1261.6 1267.2 1272.8 1278.3 1283.8 1289.3 1294.8 1300.2 1305.6 1311.0 1316.3 1321.7 1348.0 1374.1	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.80 2.83 2.86 2.83 2.86 2.89 2.93 2.93 2.96 3.12 3.27	[385:2] I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5807 I.5872 I.5936 I.5939 I.6060 I.6120 I.6179 I.6237 I.6294 I.6350 I.6459 I.6513 I.65513 I.6657 I.6617 I.6669 I.6719 I.6963 I.7193	1202.0 1208.2 1214.4 1220.5 1232.5 1238.4 1244.3 1255.8 1255.8 1261.5 1267.1 1272.7 1278.2 1283.7 1289.2 1294.7 1300.1 1305.5 1310.9 1321.6 1321.6 1348.0 1374.1
390 400 410 420 430 440 450 460 470 480 490 500 520 530 540 550 560 570 580 590 600 650	2.26 2.30 2.34 2.38 2.42 2.45 2.49 2.53 2.56 2.60 2.63 2.67 2.70 2.74 2.77 2.80 2.84 2.97 2.90 2.94 2.97 3.00 3.16	[383.9] 1.5434 1.5479 1.5552 1.5624 1.5693 1.5761 1.5828 1.5893 1.5956 1.6039 1.6199 1.6256 1.6140 1.6199 1.6256 1.6313 1.6369 1.6424 1.6478 1.6531 1.6584 1.6687 1.6737 1.6981	1202.6 1208.8 1215.0 1221.1 1227.1 1233.0 1238.9 1244.7 1256.2 1256.2 1256.2 1256.2 1256.3 1278.6 1273.0 1278.6 1273.0 1278.6 1284.1 1289.6 1300.4 1305.8 1301.1 1316.5 1321.8 1348.2 1374.3	2.25 2.29 2.33 2.37 2.40 2.44 2.48 2.51 2.55 2.58 2.62 2.65 2.69 2.79 2.76 2.79 2.82 2.86 2.89 2.92 2.95 2.99 3.15	[384.4] 1.5430 1.5472 1.5545 1.5617 1.5687 1.5755 1.5821 1.5886 1.5950 1.6073 1.6192 1.6250 1.6307 1.6362 1.6472 1.6525 1.6578 1.6630 1.6630 1.6631 1.6731 1.6975	1202.4 1208.6 1214.8 1220.9 1226.9 1232.9 1238.8 1244.6 1250.3 1256.0 1261.7 1267.3 1278.5 1278.5 1284.0 1289.5 1294.9 1300.3 1305.7 1311.1 1316.4 1321.7 1348.1	2.24 2.28 2.32 2.35 2.39 2.43 2.47 2.50 2.53 2.57 2.64 2.67 2.74 2.78 2.81 2.74 2.78 2.81 2.84 2.87 2.91 2.94 2.97 3.13	[384.8] I.5425 I.5465 I.5538 I.5610 I.5680 I.5748 I.5814 I.5879 I.5943 I.6005 I.6067 I.6127 I.6186 I.6243 I.6356 I.6356 I.6411 I.6466 I.6519 I.6572 I.6624 I.6675 I.6725 I.6969	1202.2 1208.4 1214.6 1220.7 1226.7 1232.7 1238.6 1244.4 1250.2 1255.9 1261.6 1267.6 1267.6 1278.3 1283.8 1283.8 1289.3 1289.3 1294.8 1300.2 1305.6 1311.0 1316.3 1321.7 1348.0	2.23 2.26 2.30 2.34 2.38 2.41 2.45 2.49 2.52 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.80 2.83 2.86 2.89 2.93 2.93 2.96 3.12	[385.2] I.5421 I.5421 I.5457 I.5531 I.5603 I.5673 I.5741 I.5807 I.5872 I.5936 I.5999 I.6120 I.6179 I.6237 I.6294 I.6350 I.6459 I.6553 I.6455 I.6617 I.6669 I.6719 I.6963	1202.0 1208.2 1214.4 1220.5 1232.5 1238.4 1244.3 1250.1 1255.8 1261.5 1261.5 1267.1 1278.2 1283.7 1289.2 1294.7 1300.1 1305.5 1310.9 1316.2 1321.6 1348.0

Pres- sure		209 [385.6]	1		210 [386.0]			211 [386.4]			212 [386.8]	
Temp °F.	v	s	i	v	s	i	٧	s	i	v	s	i
Sat.	2.20	1.5417	1198.9	2.19	1.5413	1199.0	2.18	1.5409	1199.1	2.17	1.5405	1199.1
390	2.21	1.5450	1201.8	2.20	1.5443	1201.6	2.19.	1.5436	1201.4	2.18	1.5429	1201.1
400	2.25	1.5524	1 208.0	2.24	1.5517	1207.9	2.23	1.5510	1207.7	2.22	1.5503	1207.5
410	2.29	1.5596	1214.2 1220.4	2.28	1.5589	1214.1 1220.2	2.27	1.5582	1213.9	2.26	1.5575	1213.7
420 430	2.33	1.5734	1220.4	2.32	1.5659	1220.2	2.30	1.5652	1220.0 1226.1	2.29	1.5645	1219.8
440	2.40	1.5801	1232.4	2.39	1.5794	1232.2	2.38	1.5787	1232.1	2.37	1.5781	1231.9
450	2.44	1.5866	1238.3	2.43	1.5859	1238.1	2.41	1.5853	1238.0	2.40	1.5846	1237.8
460	2.47	1.5929	1244.1	2.46	1.5923	1244.0	2.45	1.5917	1243.8	2.44	1.5910	1243.7
470 480	2.51 2.54	1.5992 1.6054	1249.9 1255.6	2.50	1.5986	1249.8	2.48 2.52	1.5980 1.6041	1249.6	2.47 2.51	1.5973 1.6035	1249.5
490	2.58	1.6114	1255.0	2.57	1.6108	1253.5	2.55	1.6101	1253.4	2.54	1.6035	1255.2 1260.9
500	2.61	1.6173	1267.0	2.60	1.6167	1266.9	2.59	1.6160	1266.7	2.57	1.6154	1266.6
510	2.65	1.6231	1272.6	2.63	1.6225	1272.5	2.62	1.6218	1272.3	2.61	1.6212	1272.2
520	2.68	1.6288	1278.1	2.67	1.6282	1278.0	2.65	1.6276	1277.9	2.64	1.6269	1277.8
530 540	2.71 2.75	1.6344 1.6399	1283.6 1289.1	2.70	1.6338 1.6393	1283.5 1289.0	2.69 2.72	1.6332 1.6387	1283.4 1288.9	2.67 2.71	1.6325 1.6381	1283.3 1288.8
550	2.78	1.6453	1294.6	2.77	1.6447	1294.5	2.75	1.6441	1294.4	2.74	1.6435	1294.3
560	2.81	1.6507	1300.0	2.80	1.6501	1299.9	2.79	1.6495	1299.8	2.77	1.6489	1299.7
570	2.85	1.6559	1305.4	2.83	1.6553	1305.3	2.82	1.6548	1305.2	2.80	1.6542	1305.1
580	2.88	1.6611	1310.8	2.86	1.6605	1310.7	2.85 2.88	1.6600	1310.6	2.84	1.6594	1310.5
590	2.91	1.6663	1316.1	2.90	1.6657	Ŭ		1.6651	1316.0	2.87	1.6645	1315.9
600	2.94	1.6713	1321.5	2.93	1.6707	1321.4	2.91	1.6702	1321.3	2.90 3.06	1.6696	1321.2
650 700	3.10 3.25	1.6957	1347.9 1374.0	3.09	1.7182	1347.8	3.07 3.22	1.6946	1347.7 1373.9	3.21	1.6940	1347.7 1373.9
750	3.41	1.7407	1400.0	3.39	1.7401	1399.9	3.37	1.7396	1399.9	3.36	1.7390	1399.8
		213			214			215	-		216	
Sat.	2.16	[387.2]	1199.1	2.15	[387.6]	1199.2	2.14	[388.0]	1199.2	2.13	[388.4]	1199.3
	2.16	[387.2]	1199.1	2.15	[387.6] 1.5396	1199.2	2.14	[388.0] 1.5392	1199.2	2.13	[388.4] 1.5388	1199.3
390	2.17	[387.2] 1.5400 1.5422	1200.9	2.16	[387.6] 1.5396 1.5414	1200.7	2.15	[388.0] 1.5392 1.5407	1200.5	2.13	[388.4] 1.5388 1.5400	1200.3
390 400	2.17 2.21	[387.2] 1.5400 1.5422 1.5496	1200.9 1207.3	2.16 2.19	[387.6] 1.5396 1.5414 1.5489	1200.7 1207.1	2.15 2.18	[388.0] 1.5392 1.5407 1.5482	1200.5 1206.9	2.13	[388.4] 1.5388 1.5400 1.5475	1200.3 1206.7
390	2.17	[387.2] 1.5400 1.5422	1200.9	2.16	[387.6] 1.5396 1.5414	1200.7	2.15	[388.0] 1.5392 1.5407	1200.5	2.13	[388.4] 1.5388 1.5400	1200.3
390 400 410	2.17 2.21 2.24	[387.2] 1.5400 1.5422 1.5496 1.5568	1200.9 1207.3 1213.5	2.16 2.19 2.23	[387.6] 1.5396 1.5414 1.5489 1.5561 1.5631 1.5700	1200.7 1207.1 1213.3 1219.5 1225.6	2.15 2.18 2.22 2.26 2.29	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694	1200.5 1206.9 1213.1	2.13 2.17 2.21	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687	1200.3 1206.7 1212.9 1219.1 1225.2
390 400 410 420 430 440	2.17 2.21 2.24 2.28 2.32 2.35	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5568 1.5638 1.5707 1.5774	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7	2.16 2.19 2.23 2.27 2.31 2.34	[387.6] 1.5396 1.5414 1.5489 1.5561 1.5631 1.5700 1.5767	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6	2.15 2.18 2.22 2.26 2.29 2.33	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4	2.13 2.17 2.21 2.25 2.28 2.32	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2
390 400 410 420 430 440 450	 2.17 2.21 2.24 2.28 2.32 2.35 2.39 	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5638 1.5707 1.5774 1.5840	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7	2.16 2.19 2.23 2.27 2.31 2.34 2.38	[387.6] 1.5396 1.5414 1.5489 1.5561 1.5631 1.5700 1.5767 1.5833	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5	2.15 2.18 2.22 2.26 2.29 2.33 2.36	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4	2.13 2.17 2.21 2.25 2.28 2.32 2.35	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2
390 400 410 420 430 440 450 460	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5568 1.5638 1.5707 1.5774 1.5840 1.5904	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41	[387.6] 1.5396 1.5414 1.5489 1.5561 1.5631 1.5700 1.5767 1.5833 1.5897	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5891	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1237.4 1243.3	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5884	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1
390 400 410 420 430 440 450 460 470	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.46	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5638 1.5707 1.5774 1.5840 1.5904 1.5967	1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6 1249.4	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45	[387.6] 1.5396 1.5414 1.5489 1.5561 1.5700 1.5767 1.5833 1.5897 1.5960	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4 1249.2	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5891 1.5954	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1243.3 1249.1	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39 2.42	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5884 1.5947	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9
390 400 410 420 430 440 450 460	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5568 1.5638 1.5707 1.5774 1.5840 1.5904	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41	[387.6] 1.5396 1.5414 1.5489 1.5561 1.5631 1.5700 1.5767 1.5833 1.5897	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5891	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1237.4 1243.3	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5884	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1
390 400 410 420 430 440 450 460 470 480 490 500	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.40 2.53 2.56	[387.2] 1.5400 1.5422 1.5568 1.5568 1.5568 1.5707 1.5774 1.5840 1.5904 1.5967 1.6028 1.6028 1.6048	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6 1249.4 1255.1 1260.8 1266.5	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55	[387.6] 1.5396 1.5414 1.5414 1.5561 1.5700 1.5767 1.5833 1.5897 1.5960 1.6022 1.6082 1.6082 1.6142	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4 1249.2 1255.0	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5891 1.5954 1.6015 1.6076 1.6136	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1243.3 1249.1 1254.8 1260.5 1266.2	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.52	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5884 1.5947 1.6009 1.6070 1.6129	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1
390 400 410 420 430 440 450 460 470 480 490 500 510	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.53 2.56 2.59	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5638 1.5707 1.5774 1.5840 1.5967 1.6028 1.6028 1.6089 1.6148 1.6206	1200.9 1207.3 1213.5 1219.7 1225.7 1225.7 1231.7 1249.4 1249.4 1249.4 1225.1 1260.8 1266.5 1272.1	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.58	[387.6] 1.5396 1.5414 1.5414 1.5489 1.5561 1.5767 1.5767 1.5833 1.5897 1.6022 1.6022 1.6082 1.6142 1.6200	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.2 1249.2 1255.0 1260.7 1266.4 1272.0	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.54 2.57	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5954 1.5954 1.5076 1.6076 1.6136 1.6136	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1243.1 1249.1 1254.8 1260.5 1266.2 1271.9	2.13 2.17 2.21 2.25 2.28 2.32 2.32 2.35 2.39 2.42 2.46 2.49 2.52 2.56	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5678 1.5754 1.5754 1.5820 1.5820 1.6829 1.6070 1.6129 1.6188	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1 1271.7
390 400 410 420 430 440 450 460 470 480 490 500 510 520	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.53 2.56 2.59 2.63	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5638 1.5707 1.5774 1.5840 1.5904 1.5904 1.5904 1.6028 1.6028 1.6089 1.6148 1.6206 1.6263	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6 1249.4 1255.1 1260.8 1266.5 1272.1 1277.7	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.58 2.61	[387.6] 1.5396 1.5414 1.5414 1.5459 1.5561 1.5767 1.5833 1.5967 1.5967 1.6022 1.6022 1.6082 1.6142 1.6257	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1249.2 1255.0 1260.7 1266.4 1272.5	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.54 2.57 2.56	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5954 1.5954 1.5761 1.5954 1.6075 1.6076 1.6136 1.6194 1.6251	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1243.1 1254.8 1260.5 1266.2 1271.9 1277.4	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.52 2.56 2.59	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5847 1.5844 1.5947 1.6009 1.6070 1.6129 1.6188 1.6145	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1 1271.7 1277.3
390 400 410 420 430 440 450 460 470 480 490 500 510	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.53 2.56 2.59	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5638 1.5707 1.5774 1.5840 1.5967 1.6028 1.6028 1.6089 1.6148 1.6206	1200.9 1207.3 1213.5 1219.7 1225.7 1225.7 1231.7 1249.4 1249.4 1249.4 1225.1 1260.8 1266.5 1272.1	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.58	[387.6] 1.5396 1.5414 1.5414 1.5489 1.5561 1.5767 1.5767 1.5833 1.5897 1.6022 1.6022 1.6082 1.6142 1.6200	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.2 1249.2 1255.0 1260.7 1266.4 1272.0	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.54 2.57	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5954 1.5954 1.5076 1.6076 1.6136 1.6136	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1243.1 1249.1 1254.8 1260.5 1266.2 1271.9	2.13 2.17 2.21 2.25 2.28 2.32 2.32 2.35 2.39 2.42 2.46 2.49 2.52 2.56	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5678 1.5754 1.5754 1.5820 1.5820 1.6829 1.6070 1.6129 1.6188	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1 1271.7
390 410 420 430 440 450 460 470 480 490 500 510 520 530 540	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.53 2.56 2.59 2.63 2.66 2.69	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5638 1.5707 1.5774 1.5840 1.5967 1.6028 1.6028 1.6089 1.6148 1.6206 1.6263 1.6375	1200.9 1207.3 1213.5 1219.7 1225.7 1225.7 1231.7 1249.4 1249.4 1255.1 1249.4 1255.1 1260.8 1266.5 1272.1 1277.7 1283.2 1288.7	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.58 2.61 2.65 2.68	[387.6] 1.5396 1.5414 1.5489 1.5561 1.5700 1.5767 1.5833 1.5897 1.5897 1.5892 1.6022 1.6082 1.6142 1.6257 1.6313 1.6369	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4 1249.2 1255.0 1260.7 1266.4 1272.0 1277.5 1283.1 1288.6	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.54 2.57 2.60 2.64 2.67	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.564 1.5827 1.5954 1.5954 1.5954 1.6015 1.6076 1.6136 1.6136 1.6136 1.6136 1.6337 1.6363	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1243.3 1249.1 1254.8 1260.5 1266.2 1271.9 1277.4 1283.0 1288.5	2.13 2.17 2.21 2.25 2.28 2.32 2.32 2.35 2.39 2.42 2.46 2.49 2.52 2.56 2.59 2.62 2.65	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5820 1.6829 1.6099 1.6099 1.6070 1.6129 1.6188 1.6145 1.6357	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1 1271.7 1277.3 1282.9 1288.4
390 410 420 430 440 450 460 470 480 490 500 510 520 530	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.53 2.56 2.59 2.63 2.66	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5638 1.5707 1.5774 1.5840 1.5904 1.5904 1.5967 1.6028 1.6028 1.6028 1.6148 1.6226 1.62263 1.6231 1.5233 1.5231 1.5255 1.5255 1.55555 1.55555 1.55555 1.55555 1.55555 1.55555 1.55555 1.55555 1.55555 1.55555555 1.555555 1.555	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6 1249.4 1255.1 1260.8 1266.5 1272.1 1277.7 1283.2	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.58 2.61 2.65 2.68 2.71	[387.6] 1.5396 1.5414 1.5414 1.5469 1.5561 1.5700 1.5767 1.5833 1.5897 1.5837 1.6022 1.6022 1.6022 1.6022 1.6220 1.6257 1.6313 1.6369 1.6423	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4 1243.4 1243.2 1255.0 1260.7 1266.4 1272.0 1277.5 1228.1	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.43 2.47 2.50 2.54 2.57 2.60 2.64 2.67 2.70	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5827 1.5827 1.5891 1.5934 1.6015 1.6136 1.6136 1.6136 1.6251 1.6307	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1243.3 1243.3 1249.1 1254.8 1260.5 1266.2 1271.9 1277.4 1273.0	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.52 2.56 2.59 2.62	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5884 1.5947 1.6009 1.6109 1.6129 1.6188 1.6145 1.6301	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1 1271.7 1277.3 1282.9
390 400 420 430 440 450 460 470 480 490 500 520 530 540 550 560 570	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.53 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.79	[387.2] 1.5400 1.5400 1.5422 1.5568 1.5568 1.5568 1.5707 1.5774 1.5840 1.5904 1.5904 1.5967 1.6028 1.6028 1.6148 1.6263 1.6375 1.6429 1.6483 1.6375	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6 1243.6 1249.4 1255.1 1260.8 1266.5 1272.1 1277.7 1283.2 1288.7 1294.2 1299.6 1305.0	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.58 2.61 2.65 2.68 2.71 2.74 2.78	[387.6] 1.5396 1.5414 1.5489 1.5561 1.5700 1.5767 1.5833 1.5897 1.5833 1.5897 1.6022 1.6022 1.6142 1.6257 1.6313 1.6369 1.6423 1.6427 1.6423 1.6427	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4 1243.4 1249.2 1255.0 1266.7 1266.4 1272.0 1277.5 1283.1 1288.6 1294.1 1299.5 1304.9	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.54 2.57 2.50 2.60 2.60 2.64 2.67 2.70 2.73 2.76	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5891 1.5954 1.6076 1.6136 1.6136 1.6136 1.6136 1.6307 1.6363 1.6417 1.6224	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1243.3 1243.3 1249.1 1254.8 1260.5 1266.2 1271.9 1277.4 1283.0 1288.5 1299.4 1304.9	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.52 2.59 2.62 2.65 2.62 2.65 2.69 2.72 2.75	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5884 1.5947 1.6099 1.6070 1.6129 1.6129 1.6129 1.61357 1.6411 1.6357 1.6451 1.545 1.5588	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1 1271.7 1277.3 1282.9 1288.4 1293.9 1299.3 1304.8
390 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 550 550	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.53 2.56 2.59 2.66 2.69 2.66 2.69 2.73 2.76 2.79 2.82	[387:2] 1.5400 1.5422 1.5496 1.5568 1.5638 1.5777 1.5774 1.5904 1.5967 1.6028 1.6028 1.6048 1.6263 1.6375 1.6429 1.6433 1.6536	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6 1249.4 1255.1 1260.8 1266.5 1272.1 1277.7 1283.2 1288.7 1299.6 1305.0 1305.0 1310.4	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.58 2.68 2.65 2.68 2.65 2.68 2.71 2.74 2.78 2.81	[387.6] 1.5396 1.5414 1.5414 1.5489 1.5561 1.5767 1.5767 1.5897 1.5897 1.6022 1.6082 1.6022 1.6082 1.6142 1.6257 1.6313 1.6369 1.6423 1.6423 1.6423 1.6423 1.6536	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4 1249.2 1255.0 1266.4 1272.0 1277.5 1283.1 1288.6 1294.1 1299.5 1304.9 1304.9 1304.3	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.54 2.57 2.64 2.67 2.64 2.67 2.70 2.70 2.76 2.80	[388.0] 1.5392 1.5407 1.5467 1.5482 1.5554 1.5625 1.5694 1.58954 1.6015 1.6076 1.6136 1.6194 1.6251 1.6363 1.6417 1.6471 1.65276	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1243.3 1249.1 1254.8 1260.5 1266.2 1271.9 1277.4 1283.0 1288.5 1299.4 1304.9 1304.9 1304.9 1310.3	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39 2.42 2.49 2.52 2.56 2.59 2.62 2.65 2.69 2.72 2.75 2.78	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.57547 1.57547 1.57547 1.57547 1.5884 1.5947 1.6099 1.6129 1.6129 1.6128 1.6145 1.6357 1.6411 1.6451 1.6570	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1 1271.7 1277.3 1282.9 1288.4 1293.9 1299.3 1304.8 1310.2
390 400 410 420 430 440 450 460 470 480 500 510 520 530 540 550 560 570 580 590	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.53 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.79 2.82 2.85	[387.2] 1.5400 1.5422 1.5496 1.5568 1.5638 1.5707 1.5774 1.5840 1.5904 1.5904 1.5904 1.6208 1.6028 1.6028 1.6028 1.6263 1.6263 1.6275 1.6429 1.6483 1.6538 1.6538 1.6538	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6 1249.4 1255.1 1260.8 1266.5 1272.1 1277.7 1283.2 1299.6 1305.0 1310.4 1315.8	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.68 2.61 2.65 2.68 2.71 2.74 2.78 2.81 2.84	[387.6] 1.5396 1.5414 1.5414 1.5489 1.5561 1.5767 1.5833 1.5897 1.5897 1.6222 1.6082 1.6082 1.6142 1.6257 1.6313 1.6369 1.6423 1.6423 1.6477 1.6530 1.6582 1.6633	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4 1249.2 1255.0 1260.7 1266.4 1277.5 1283.1 1277.5 1283.1 1299.5 1304.9 1310.3 1315.7	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.54 2.57 2.60 2.64 2.67 2.70 2.73 2.76 2.80 2.83	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5891 1.5954 1.6075 1.6076 1.6136 1.6194 1.6251 1.6307 1.6363 1.6417 1.6471 1.6524 1.6576 1.6628	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1249.1 1254.8 1260.5 1266.2 1271.9 1277.4 1283.0 1277.4 1283.5 1294.0 1299.4 1304.9 1310.3 1315.6	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.52 2.56 2.59 2.62 2.65 2.65 2.69 2.72 2.75 2.78 2.81	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5820 1.5847 1.5847 1.6009 1.6129 1.6188 1.6145 1.6145 1.6357 1.6411 1.6465 1.6518 1.6570 1.66570 1.6570	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1243.1 1243.9 1254.7 1260.4 1266.1 1271.7 1277.3 1282.9 1288.4 1293.9 1299.3 1304.8 1310.2 1315.5
390 400 410 420 430 440 450 460 470 480 490 500 520 530 540 550 560 570 580 590 600	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.49 2.53 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.73 2.76 2.79 2.82 2.85 2.88	[387.2] 1.5400 1.5400 1.5422 1.5496 1.5568 1.5707 1.5774 1.5840 1.5904 1.5904 1.5904 1.6028 1.6028 1.6028 1.6226 1.6226 1.6375 1.6429 1.6483 1.6536 1.6588 1.6538 1.6639 1.6690	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6 1243.6 1249.4 1255.1 1260.8 1266.5 1272.1 1283.2 1288.7 1294.2 1299.6 1305.0 1310.4 1315.8 1321.2	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.58 2.61 2.65 2.68 2.71 2.74 2.74 2.78 2.81 2.84 2.87	[387.6] 1.5396 1.5414 1.5489 1.5561 1.5700 1.5767 1.5833 1.5897 1.5897 1.6022 1.6022 1.6022 1.6022 1.6042 1.6313 1.6369 1.6423 1.6423 1.6423 1.6423 1.6423 1.6423 1.64530 1.64530 1.6684	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4 1243.4 1249.2 1255.0 1260.7 1266.4 1272.0 1277.5 1283.1 1288.6 1294.1 1299.5 1304.9 1310.3 1315.7 1321.1	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.54 2.57 2.60 2.64 2.67 2.60 2.64 2.67 2.70 2.73 2.76 2.80 2.83 2.86	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5831 1.5934 1.6075 1.6136 1.6136 1.6136 1.6136 1.6363 1.6417 1.6471 1.6524 1.6576 1.6628 1.6678	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1243.3 1243.3 1249.1 1254.8 1260.5 1266.2 1271.9 1277.4 1283.0 1288.5 1294.0 1299.4 1304.9 1310.3 1315.6 1321.0	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.52 2.56 2.59 2.62 2.65 2.65 2.69 2.72 2.75 2.78 2.81 2.84	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5884 1.5947 1.6009 1.6129 1.6188 1.6145 1.6301 1.6357 1.6411 1.6455 1.64518 1.64570 1.66518 1.6673	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1 1271.7 1277.3 1282.9 1288.4 1293.9 1298.4 1293.9 1299.3 1304.8 1310.2 1315.5 1320.9
390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 650	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.53 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.79 2.82 2.85 2.88 3.04	[387:2] 1.5400 1.5422 1.5422 1.54568 1.5568 1.5707 1.5777 1.5777 1.5904 1.5907 1.6028 1.6028 1.6028 1.6148 1.6206 1.6375 1.6429 1.6433 1.6375 1.6429 1.6538 1.6538 1.6538 1.6538 1.6538 1.6539 1.6539 1.6690 1.6690 1.6934	1200.9 1207.3 1213.5 1219.7 1225.7 1231.7 1237.7 1243.6 1243.6 1243.6 1249.4 1255.1 1260.8 1266.5 1277.7 1283.2 1288.7 1294.2 1299.6 1305.0 1310.4 1315.8 1321.2 1347.6	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.58 2.61 2.65 2.68 2.71 2.74 2.78 2.81 2.84 2.87 3.03	[387.6] 1.5396 1.5414 1.5414 1.54561 1.5561 1.5767 1.5767 1.5897 1.5965 1.6022 1.6082 1.6082 1.6142 1.6200 1.6257 1.6313 1.6369 1.6423 1.6423 1.6423 1.6582 1.6582 1.6582 1.6684 1.6929	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4 1243.4 1249.2 1255.0 1266.4 1277.5 1266.4 1277.5 1283.1 1288.6 1294.1 1299.5 1304.9 1310.3 1315.7 1321.1 1347.6	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.54 2.57 2.50 2.60 2.64 2.67 2.73 2.76 2.80 2.83 2.86 3.01	[388.0] 1.5392 1.5407 1.5407 1.5407 1.5402 1.5554 1.5625 1.5694 1.6015 1.6076 1.6136 1.6194 1.6251 1.6363 1.6417 1.6471 1.65276 1.6528 1.6528 1.6523	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1243.3 1243.3 1243.3 1243.3 1254.8 1260.5 1266.2 1271.9 1277.4 1283.0 1288.5 1299.4 1304.9 1310.3 1315.6 1321.0 1347.5	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.52 2.62 2.65 2.62 2.65 2.72 2.75 2.78 2.81 2.84 3.00	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.59847 1.59847 1.6009 1.6129 1.6129 1.6188 1.6145 1.6357 1.6411 1.64518 1.6570 1.6522 1.6573 1.6673 1.6917	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1 1271.7 1277.3 1282.9 1288.4 1293.9 1299.3 1304.8 1310.2 1315.5 1320.9 1347.4
390 400 410 420 430 440 450 460 470 480 490 500 520 530 540 550 560 570 580 590 600	2.17 2.21 2.24 2.28 2.32 2.35 2.39 2.42 2.49 2.53 2.56 2.59 2.63 2.66 2.69 2.73 2.76 2.73 2.76 2.79 2.82 2.85 2.88	[387.2] 1.5400 1.5400 1.5422 1.5496 1.5568 1.5707 1.5774 1.5840 1.5904 1.5904 1.5904 1.6028 1.6028 1.6028 1.6226 1.6226 1.6375 1.6429 1.6483 1.6536 1.6588 1.6538 1.6639 1.6690	1200.9 1207.3 1213.5 1219.7 1225.7 1225.7 1231.7 1249.4 1255.1 1260.8 1266.5 1272.1 1277.7 1283.2 1294.2 1299.6 1305.0 1315.8 1321.2 1347.6 1373.8	2.16 2.19 2.23 2.27 2.31 2.34 2.38 2.41 2.45 2.48 2.51 2.55 2.58 2.61 2.65 2.68 2.71 2.74 2.74 2.78 2.81 2.84 2.87	[387.6] 1.5396 1.5414 1.5489 1.5561 1.5700 1.5767 1.5833 1.5897 1.5897 1.6022 1.6022 1.6022 1.6022 1.6042 1.6313 1.6369 1.6423 1.6423 1.6423 1.6423 1.6423 1.6423 1.64530 1.64530 1.6684	1200.7 1207.1 1213.3 1219.5 1225.6 1231.6 1237.5 1243.4 1243.4 1249.2 1255.0 1260.7 1266.4 1272.0 1277.5 1283.1 1288.6 1294.1 1299.5 1304.9 1310.3 1315.7 1321.1	2.15 2.18 2.22 2.26 2.29 2.33 2.36 2.40 2.43 2.47 2.50 2.54 2.57 2.60 2.64 2.67 2.60 2.64 2.67 2.70 2.73 2.76 2.80 2.83 2.86	[388.0] 1.5392 1.5407 1.5482 1.5554 1.5625 1.5694 1.5761 1.5827 1.5831 1.5934 1.6075 1.6136 1.6136 1.6136 1.6136 1.6363 1.6417 1.6471 1.6524 1.6576 1.6628 1.6678	1200.5 1206.9 1213.1 1219.3 1225.4 1231.4 1237.4 1243.3 1243.3 1249.1 1254.8 1260.5 1266.2 1271.9 1277.4 1283.0 1288.5 1294.0 1299.4 1304.9 1310.3 1315.6 1321.0	2.13 2.17 2.21 2.25 2.28 2.32 2.35 2.39 2.42 2.46 2.49 2.52 2.56 2.59 2.62 2.65 2.65 2.69 2.72 2.75 2.78 2.81 2.84	[388.4] 1.5388 1.5400 1.5475 1.5547 1.5618 1.5687 1.5754 1.5820 1.5884 1.5947 1.6009 1.6129 1.6188 1.6145 1.6301 1.6357 1.6411 1.6455 1.64518 1.64570 1.66518 1.6673	1200.3 1206.7 1212.9 1219.1 1225.2 1231.2 1237.2 1243.1 1248.9 1254.7 1260.4 1266.1 1271.7 1277.3 1282.9 1288.4 1293.9 1298.4 1293.9 1299.3 1304.8 1310.2 1315.5 1320.9

Pres- sure		217 [388.8]			218 [389.2]			219 [389.6]			220 [390.0]	
Temp °F.	V	S	i		S	i	۷	8	i	V	8	i
Sat.	2.12	1.5384	1199.3	2.11	1.5380	1199.4	2.10	1.5376	1199.4	2.09	1.5372	1199.5
400	2.16	1.5468	1206.5	2.15	1.5461	1206.3	2.14	1.5454	1206.1	2.13	1.5447	1205.9
410	2.20	1.5540	1212.8	2.19	1.5534	1212.6	2.18	1.5527	1212.4	2.17	1.5520	1212.2
420	2.24	1.5611	1219.0	2.22	1.5605	1218.8	2.21	1.5598	1218.6	2.20	1.5591	1218.4
430	2.27	1.5680	1225.1	2.26	1.5674	1224.9	2.25	1.5667	1224.7	2.24	1.5660	1224.5
440	2.30	1.5747	1231.1	2.29	1.5741	1230.9	2.28	1.5734	1230.8	2.27	1.5728	1230.6
450	2.34	1.5813	1237.1	2.33	1.5807	1236.9	2.32	1.5801	1236.8	2.31	1.5794	1236.6
460	2.37	1.5878	1243.0	2.36	1.5871	1242.8	2.35	1.5865	1242.7	2.34	1.5859	1242.5
470	2.41	1.5941	1248.8	2.40	1.5935	1248.6	2.39	1.5928	1248.5	2.38	1.5922	1248.4
480	2.44	1.6003	1254.6	2.43	1.5997	1254.4	2.42	1.5990	1254.3	2.41	1.5984	1254.2
490	2.48	1.6064	1260.3	2.47	1.6057	1260.2	2.45	1.6051	1260.0	2.44	1.6045	1259.9
500 510 520 530 540	2.51 2.54 2.58 2.61 2.64	1.6123 1.6182 1.6239 1.6295 1.6351	1266.0 1271.6 1277.2 1282.8 1288.3	2.50 2.53 2.56 2.60 2.63	1.6117 1.6175 1.6233 1.6289 1.6345	1265.9 1271.5 1277.1 1282.7 1288.2	2.49 2.52 2.55 2.58 2.62	1.6111 1.6169 1.6227 1.6283 1.6339	1265.7 1271.4 1277.0 1282.6 1288.1	2.47 2.51 2.54 2.57 2.60	1.6105 1.6163 1.6221 1.6277 1.6333	1265.6 1271.3 1276.9 1282.5 1288.0
550	2.67	1.6405	1293.8	2.66	1.6399	1293.7	2.65	1.6394	1293.6	2.64	1.6388	1293.5
560	2.71	1.6459	1299.2	2.69	1.6453	1299.1	2.68	1.6448	1299.1	2.67	1.6442	1299.0
570	2.74	1.6512	1304.7	2.72	1.6506	1304.6	2.71	1.6501	1304.5	2.70	1.6495	1304.4
580	2.77	1.6564	1310.1	2.76	1.6558	1310.0	2.74	1.6553	1309.9	2.73	1.6547	1309.8
590	2.80	1.6616	1315.5	2.79	1.6610	1315.4	2.77	1.6605	1315.3	2.76	1.6599	1315.2
600	2.83	1.6667	1320.8	2.82	1.6661	1320.7	2.80	1.6656	1320.7	2.79	1.6650	1320.6
650	2.98	1.6912	1347.3	2.97	1.6906	1347.3	2.95	1.6901	1347.2	2.94	1.6895	1347.1
700	3.13	1.7143	1373.6	3.12	1.7137	1373.5	3.10	1.7132	1373.5	3.09	1.7126	1373.4
750	3.28	1.7363	1399.6	3.27	1.7357	1399.6	3.25	1.7352	1399.5	3.24	1.7346	1399.5
800	3.42	1.7573	1425.6	3.41	1.7568	1425.5	3.39	1.7562	1425.5	3.38	1.7557	1425.5

		221 [390.3]			222 [390.7]			223 [391.1]			224 [391.5]	2
Sat.	2.08	1.5368	1199.5	2.07	1.5364	1199.6	2.06	1.5360	1199.6	2.05	1.5356	1199.7
400	2.12	1.5440	1205.7	2.11	1.5433	1205.5	2.10	1.5427	1205.3	2.09	1.5420	1205.1
410	2.15	1.5513	1212.0	2.14	1.5507	1211.8	2.13	1.5500	1211.6	2.12	1.5493	1211.4
420	2.19	1.5584	1218.2	2.18	1.5578	1218.0	2.17	1.5571	1217.9	2.16	1.5565	1217.7
430	2.23	1.5654	1224.4	2.22	1.5647	1224.2	2.20	1.5641	1224.0	2.19	1.5634	1223.9
440	2.26	1.5722	1230.4	2.25	1.5715	1230.3	2.24	1.5709	1230.1	2.23	1.5702	1230.0
450	2.30	1.5788	1236.4	2.28	1.5781	1236.3	2.27	1.5775	1236.1	2.26	1.5769	1236.0
460	2.33	1.5853	1242.4	2.32	1.5846	1242.2	2.31	1.5840	1242.1	2.30	1.5834	1241.9
470	2.36	1.5916	1248.2	2.35	1.5910	1248.1	2.34	1.5903	1247.9	2.33	1.5897	1247.8
480	2.40	1.5978	1254.0	2.38	1.5972	1253.9	2.37	1.5966	1253.7	2.36	1.5960	1253.6
490	2.43	1.6039	1259.8	2.42	1.6033	1259.6	2.41	1.6027	1259.5	2.40	1.6021	1259.4
500	2.47	1.6099	1265.5	2.45	1.6093	1265.4	2.44	1.6087	1265.2	2.43	1.6081	1265.1
510	2.50	1.6157	1271.1	2.48	1.6151	1271.0	2.47	1.6145	1270.9	2.46	1.6139	1270.8
520	2.53	1.6215	1276.7	2.52	1.6209	1276.6	2.50	1.6203	1276.5	2.49	1.6197	1276.4
530	2.56	1.6271	1282.3	2.55	1.6266	1282.2	2.54	1.6260	1282.1	2.52	1.6254	1282.0
540	2.59	1.6327	1287.9	2.58	1.6321	1287.8	2.57	1.6315	1287.7	2.56	1.6310	1287.6
550	2.62	1.6382	1293.4	2.61	1.6376	1293.3	2.60	1.6370	1293.2	2.59	1.6365	1293.1
560	2.65	1.6436	1298.9	2.64	1.6430	1298.8	2.63	1.6424	1298.7	2.62	1.6419	1298.6
570	2.69	1.6489	1304.3	2.67	1.6483	1304.2	2.66	1.6478	1304.1	2.65	1.6472	1304.0
580	2.72	1.6541	1309.7	2.70	1.6536	1309.6	2.69	1.6530	1309.5	2.68	1.6524	1309.4
590	2.75	1.6593	1315.1	2.73	1.6588	1315.0	2.72	1.6582	1314.9	2.71	1.6576	1314.8
600	2.78	1.6644	1320.5	2.77	1.6639	1320.4	2.75	1.6633	1320.3	2.74	1.6627	1320.2
650	2.93	1.6889	1347.1	2.91	1.6884	1347.0	2.90	1.6879	1346.9	2.89	1.6873	1346.9
700	3.08	1.7121	1373.4	3.06	1.7116	1373.3	3.05	1.7110	1373.2	3.03	1.7105	1373.2
750	3.22	1.7341	1399.4	3.21	1.7336	1399.4	3.19	1.7331	1399.3	3.17	1.7325	1399.3
800	3.36	1.7552	1425.4	3.35	1.7547	1425.4	3.33	1.7541	1425.3	3.32	1.7536	1425.3

Pres- sure		225 [391.9]			226 [392.3]			227 [392.7]			228 [393.0]	
Temp ° F.	V	s	i	٧	S	i	v	S	i	v	s	i
Sat.	2.05	1.5352	1199.7	2.04	1.5348	1199.8	2.03	1.5344	1199.8	2.02	1.5341	1199.8
400	2.08	1.5413	1204.9	2.07	1.5406	1 204.7	2.06	1.5399	1204.5	2.05	1.5393	1 204.3
410	2.11	1.5486	1211.3	2.10	1.5480	1211.1	2.09	1.5473	1210.9	2.08	1.5467	1210.7
420	2.15	1.5558	1217.5	2.14	1.5552	1217.3	2.13	1.5545	1217.2	2.12	1.5539	1217.0
430 440	2.18 2.22	1.5628 1.5696	1223.7 1229.8	2.17 2.21	1.5621 1.5689	1223.5 1229.6	2.16 2.20	1.5615 1.5683	1223.4 1229.5	2.15 2.19	1.5609 1.5677	1223.2 1229.3
450	2.25	1.5762	1235.8	2.24	1.5756	1235.6	2.23	1.5750	1235.5	2.22	1.5744	1235.3
460	2.28	1.5827	1241.8	2.27	1.5821	1241.6	2.26	1.5815	1241.5	2.25	1.5809	1241.3
470	2.32	1.5891	1247.7	2.31	1.5885	1247.5	2.30	1.5879	1247.4	2.29	1.5873	1247.2
480	2.35	1.5953	1253.5	2.34	1.5947	1253.3	2.33	1.5941	1253.2	2.32	1.5935	1253.1
490	2.38	1.6014	1259.3	2.37	1.6009	1259.1	2.36	1.6003	1259.0	2.35	1.5997	1258.9
500	2.42	1.6074	1265.0	2.40	1.6069	1264.9	2.39	1.6063	1264.7	2.38	1.6057	1264.6
510	2.45	1.6133	1270.7	2.44	1.6128	1270.5	2.43	1.6122	1270.4	2.42	1.6116	1270.3
520	2.48	1.6191	1276.3	2.47	1.6185	1276.2	2.46	1.6180	1276.1	2.45	1.6174	1275.9
530	2.51	1.6248	1281.9	2.50	1.6242	1281.8	2.49	1.6236	1281.7	2.48	1.6231	1281.6
540	2.54	1.6304	1287.5	2.53	1.6298	1287.4	2.52	1.6292	1287.3	2.51	1.6287	1287.1
550	2.57	1.6359	1293.0	2.56	1.6353	1292.9	2.55	1.6347	1292.8	2.54	1.6342	1292.7
560	2.60	1.6413	1298.5	2.59	1.6407	1298.4	2.58	1.6402	1298.3	2.57	1.6396	1298.2
570	2.64	1.6466	1303.9	2.62	1.6461	1303.8	2.61	1.6455	1303.7	2.60	1.6449	1303.7
580	2.67	1.6519	1309.4	2.65	1.6513	1309.3	2.64	1.6508	1309.2	2.63	1.6502	1309.1
590	2.70	1.6571	1314.8	2.68	1.6565	1314.7	2.67	1.6560	1314.6	2.66	1.6554	1314.5
600	2.73	1.6622	1320.2	2.71	1.6616	1320.1	2.70	1.6611	1320.0	2.69	1.6605	1319.9
650	2.88	т.6868	1346.8	2.86	1.6862	1346.7	2.85	1.6857	1346.7	2.84	1.6852	1346.6
700	3.02	1.7100	1373.1	3.01	1.7094	1373.1	2.99	1.7089	1373.0	2.98	1.7084	1373.0
750	3.16	1.7320	1399.2	3.15	1.7315	1399.2	3.13	1.7310	1399.1	3.12	1.7304	1399.1
800	3.30	1.7531	1425.3	3.29	1.7526	1425.2	3.27	1.7521	1425.2	3.26	1.7516	1425.1
						1 1		1			1	
		229			230			231			232	
		229 [393-4]			230 [393.8]			231 [394.2]			232 [394.5]	
Sat.	2.01		1199.9	2.00		1199.9	1.99		1200.0	1.98		1200.0
Sat.	2.0I 2.03	[393.4]	1199.9 1204.2	2.00	[393.8]	1204.0	1.99 2.01	[394.2]	1200.0	1.98	[394.5]	1 203.5
		[393.4] 1.5337 1.5386 1.5460	1204.2	2.02 2.06	[393.8] I.5333 I.5379 I.5453	1204.0 1210.3	2.01 2.05	[394.2] 1.5329 1.5373 1.5447	1203.7 1210.1	2.00 2.04	[394.5] 1.5325 1.5366 1.5440	1 203.5 1 209.9
400 410 420	2.03 2.07 2.11	[393.4] 1.5337 1.5386 1.5460 1.5532	1204.2 1210.5 1216.8	2.02 2.06 2.10	[393.8] 1.5333 1.5379 1.5453 1.5526	1204.0 1210.3 1216.6	2.01 2.05 2.09	[394.2] 1.5329 1.5373 1.5447 1.5519	1203.7 1210.1 1216.4	2.00 2.04 2.08	[394.5] 1.5325 1.5366 1.5440 1.5513	1203.5 1209.9 1216.3
400 410 420 430	2.03 2.07 2.11 2.14	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5602	1204.2 1210.5 1216.8 1223.0	2.02 2.06 2.10 2.13	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596	1204.0 1210.3 1216.6 1222.8	2.01 2.05 2.09 2.12	[394.2] 1.5329 1.5373 1.5447 1.5519 1.5589	1203.7 1210.1 1216.4 1222.7	2.00 2.04 2.08 2.11	[394.5] 1.5325 1.5366 1.5440 1.5513 1.5583	1203.5 1209.9 1216.3 1222.5
400 410 420	2.03 2.07 2.11	[393.4] 1.5337 1.5386 1.5460 1.5532	1204.2 1210.5 1216.8	2.02 2.06 2.10	[393.8] 1.5333 1.5379 1.5453 1.5526	1204.0 1210.3 1216.6	2.01 2.05 2.09	[394.2] 1.5329 1.5373 1.5447 1.5519	1203.7 1210.1 1216.4	2.00 2.04 2.08	[394.5] 1.5325 1.5366 1.5440 1.5513	1203.5 1209.9 1216.3
400 410 420 430	2.03 2.07 2.11 2.14	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5602	1204.2 1210.5 1216.8 1223.0	2.02 2.06 2.10 2.13	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596 1.5664 1.5731	1204.0 1210.3 1216.6 1222.8	2.01 2.05 2.09 2.12	[394.2] 1.5329 1.5373 1.5447 1.5519 1.5589 1.5658 1.5658	1203.7 1210.1 1216.4 1222.7	2.00 2.04 2.08 2.11	[394.5] 1.5325 1.5366 1.5440 1.5513 1.5583	1203.5 1209.9 1216.3 1222.5
400 410 420 430 440	2.03 2.07 2.11 2.14 2.17	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5602 1.5670	1204.2 1210.5 1216.8 1223.0 1229.1	2.02 2.06 2.10 2.13 2.16	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596 1.5664 1.5731 1.5797	1204.0 1210.3 1216.6 1222.8 1229.0	2.01 2.05 2.09 2.12 2.15	[394.2] 1.5329 1.5373 1.5447 1.5519 1.5589 1.5658 1.5658	1203.7 1210.1 1216.4 1222.7 1228.8	2.00 2.04 2.08 2.11 2.14	[394.5] 1.5325 1.5366 1.5440 1.5513 1.5583 1.5651	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7
400 410 420 430 440 450 460 460 470	2.03 2.07 2.11 2.14 2.17 2.21	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5602 1.5670 1.5737	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596 1.5664 1.5731 1.5797 1.5861	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25	[394.2] 1.5329 1.5373 1.5447 1.5519 1.5589 1.5658 1.5725 1.5790 1.5855	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24	[394.5] 1.5325 1.5366 1.5440 1.5513 1.5583 1.5651 1.5719 1.5784 1.5849	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1246.6
400 410 420 430 440 450 460 460 470 480	2.03 2.07 2.11 2.14 2.17 2.21 2.21 2.24 2.27 2.31	[393-4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5867 1.5929	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596 1.5664 1.5731 1.5797 1.5861 1.5923	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29	[394.2] 1.5373 1.5447 1.5519 1.5589 1.5658 1.5725 1.5790 1.5855 1.5797	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28	[394.5] 1.5325 1.5366 1.5440 1.5513 1.5583 1.5651 1.5719 1.5784 1.5784 1.5849 1.5911	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1246.6 1252.5
400 410 420 430 440 460 460 470 480 490	2.03 2.07 2.11 2.14 2.17 2.21 2.21 2.24 2.27	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5602 1.5670 1.5737 1.5803 1.5867	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9 1258.7	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596 1.5596 1.5797 1.5861 1.5923 1.5985	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1246.9 1252.8 1252.8 1258.6	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5917 I.5979	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7 1258.5	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24	[394.5] I.5325 I.5366 I.5440 I.5513 I.5583 I.5651 I.5719 I.5784 I.5849 I.5911 I.5973	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1246.6 1252.5 1258.3
400 410 420 430 440 450 460 460 470 480	2.03 2.07 2.11 2.14 2.17 2.21 2.21 2.24 2.27 2.31	[393-4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5867 1.5929	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596 1.5596 1.5797 1.5861 1.5923 1.5985 1.6045	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29	[394.2] 1.5373 1.5447 1.5519 1.5589 1.5658 1.5725 1.5790 1.5855 1.5797	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34	[394.5] 1.5325 1.5366 1.5440 1.5513 1.5583 1.5651 1.5719 1.5784 1.5784 1.5849 1.5911	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1246.6 1252.5 1258.3
400 410 420 430 440 460 460 470 480 490	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5867 1.5929 1.5991 1.6051 1.6110	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33	[393.8] 1.53333 1.5379 1.5453 1.5526 1.5596 1.5596 1.5797 1.5861 1.5923 1.5985 1.6045 1.604	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1246.9 1252.8 1252.8 1258.6	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5917 I.5979	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7 1258.5	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31	[394.5] I.5325 I.5366 I.5440 I.5513 I.5583 I.5651 I.5719 I.5784 I.5849 I.5911 I.5973	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8
400 410 420 430 440 450 460 470 480 490 500	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.34	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5602 1.5670 1.5737 1.5803 1.5807 1.5929 1.5929 1.5991 1.6051 1.6110 1.6168	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2 1275.8	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36	[393.8] 1.53333 1.5379 1.5453 1.5526 1.5564 1.5731 1.5797 1.5823 1.5923 1.5985 1.6045 1.6104 1.6162	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1241.0 1252.8 1258.6 1258.6 1264.4 1270.1 1275.7	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.32	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5917 I.5917 I.5917 I.5917 I.5917 I.5917 I.5917 I.5917 I.5915 I.591	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1246.8 1252.7 1258.5 1264.2 1269.9 1275.6	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34	[394.5] I.5325 I.5366 I.5440 I.5513 I.5583 I.5651 I.5719 I.5784 I.5911 I.5973 I.6033 I.6092 I.6151	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8 1275.5
400 410 420 430 440 460 470 480 490 500 510	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.37 2.40 2.43 2.46	[393.4] I.5337 I.5386 I.5460 I.5532 I.5670 I.5737 I.5803 I.5929 I.5991 I.6929 I.6051 I.6168 I.6225	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2 1275.8 1281.4	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.42 2.45	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596 1.5664 1.5731 1.5797 1.5861 1.5985 1.6923 1.6045 1.6162 1.6219	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1252.8 1258.6 1264.4 1270.7 1281.3	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.32 2.35 2.38 2.41 2.44	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5917 I.5979 I.6039 I.6038 I.6156	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7 1258.5 1264.2 1269.9 1275.6 1281.2	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43	[394.5] I.5325 I.5366 I.5440 I.5513 I.5651 I.5719 I.5784 I.5973 I.6921 I.6151 I.6208	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.1 1265.5 1281.1
400 410 420 430 440 450 460 470 480 490 500 510 520	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.37 2.40 2.43	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5602 1.5670 1.5737 1.5803 1.5807 1.5929 1.5929 1.5991 1.6051 1.6110 1.6168	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2 1275.8	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.42	[393.8] 1.53333 1.5379 1.5453 1.5526 1.5564 1.5731 1.5797 1.5823 1.5923 1.5985 1.6045 1.6104 1.6162	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1241.0 1252.8 1258.6 1258.6 1264.4 1270.1 1275.7	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.41	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5917 I.5917 I.5917 I.5917 I.5917 I.5917 I.5917 I.5917 I.5915 I.591	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7 1258.5 1264.2 1269.9 1275.6 1281.2	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40	[394.5] I.5325 I.5366 I.5440 I.5513 I.5583 I.5651 I.5719 I.5784 I.5911 I.5973 I.6033 I.6092 I.6151	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8 1275.5
400 410 420 430 440 450 450 450 480 490 500 510 520 530 540 550	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.34 2.37 2.40 2.43 2.46 2.50 2.53	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5929 1.5929 1.5929 1.5929 1.6051 1.6110 1.6168 1.6225 1.6281 1.6336	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2 1275.8 1281.4 1287.0 1292.6	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.42 2.45 2.49 2.52	[393.8] 1.53333 1.5379 1.5453 1.5526 1.5566 1.55664 1.5731 1.5797 1.5861 1.5923 1.5985 1.6045 1.6104 1.6102 1.6219 1.6275 1.6331	1204.0 1210.3 12216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8 1258.6 1264.4 1270.1 1275.7 1281.3 1286.9 1292.5	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.41 2.44 2.47 2.50	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5795 I.5977 I.5977 I.5979 I.6039 I.6038 I.6156 I.6213 I.6270 I.6325	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1246.8 1252.7 1258.5 1264.2 1269.9 1275.6 1281.2 1286.8 1292.4	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43 2.46 2.49	[394.5] I.5325 I.5366 I.5440 I.5513 I.5651 I.5719 I.5784 I.5849 I.5911 I.5973 I.6033 I.6092 I.6151 I.6208 I.6264 I.6319	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8 1275.5 1281.1 1286.7 1292.3
400 410 430 440 450 450 470 480 490 500 510 520 530 540 550 560	2.03 2.07 2.11 2.14 2.17 2.21 2.21 2.31 2.34 2.37 2.40 2.43 2.46 2.50 2.53 2.56	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5807 1.5929 1.5929 1.5991 1.6051 1.6110 1.6125 1.6281 1.6336 1.6339	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2 1275.8 1281.4 1287.0 1292.6 1298.1	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.42 2.45 2.49 2.52 2.55	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5506 1.5506 1.5731 1.5797 1.5861 1.5923 1.6923 1.6045 1.6104 1.6102 1.6219 1.6275 1.6331 1.6385	1204.0 1210.3 12216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8 1258.6 1264.4 1270.1 1275.7 1281.3 1286.9 1292.5 1298.0	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.41 2.44 2.47 2.50 2.53	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5917 I.5979 I.6038 I.6156 I.6213 I.6270 I.6325 I.6379	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7 1258.5 1264.2 1264.2 1269.9 1275.6 1281.2 1286.8 1292.4 1297.9	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43 2.46 2.49 2.52	[394.5] I.5325 I.5366 I.5440 I.5513 I.5583 I.5651 I.5719 I.5784 I.5913 I.5973 I.6092 I.6151 I.6208 I.6264 I.6319 I.6374	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1240.7 1240.7 1252.5 1258.3 1264.1 1269.8 1275.5 1281.1 1269.7 1292.3 1297.8
400 410 420 430 440 460 470 480 490 500 510 520 530 540 550 550 570	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.37 2.40 2.43 2.40 2.43 2.50 2.50	[393.4] I.5337 I.5386 I.5460 I.5532 I.5670 I.5737 I.5803 I.5929 I.5991 I.6051 I.6168 I.6225 I.6281 I.6336 I.6390 I.6443	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9 1258.7 1264.5 1275.8 1275.8 1275.8 1281.4 1287.0 1292.6 1298.1 1303.6	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.45 2.45 2.45 2.49 2.55 2.55 2.58	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596 1.5596 1.5731 1.5797 1.5985 1.6045 1.6162 1.6219 1.6275 1.6331 1.6385 1.6438	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8 1258.6 1264.4 1270.1 1275.7 1281.3 1286.9 1292.5 1298.0 1303.5	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.44 2.44 2.47 2.50 2.53 2.56	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5917 I.5979 I.6039 I.6038 I.6156 I.6213 I.6270 I.6325 I.6379 I.6433	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1246.8 1252.7 1246.8 1252.7 1258.5 1264.2 1264.2 1269.9 1275.6 1281.2 1286.8 1292.4 1297.9 1303.4	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43 2.46 2.49 2.52 2.55	[394.5] I.5325 I.5366 I.5440 I.5513 I.5651 I.5719 I.5784 I.5973 I.6033 I.6092 I.6151 I.6208 I.6264 I.6319 I.6374 I.6427	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8 1275.5 1281.1 1286.7 1292.3 1297.8 1303.3
400 410 420 430 440 460 470 480 490 500 510 520 530 540 550 550 570 580	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.37 2.40 2.43 2.40 2.43 2.40 2.50 2.50 2.50 2.59 2.62	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5867 1.5929 1.5991 1.6051 1.6100 1.6168 1.6225 1.6281 1.6336 1.6336 1.6436	1204.2 1210.5 1210.5 1223.0 1229.1 1235.2 1241.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2 1275.8 1281.4 1287.0 1292.6 1292.6 1303.0	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.42 2.45 2.45 2.45 2.45 2.58 2.58 2.61	[393.8] 1.53333 1.5379 1.5453 1.5526 1.5526 1.5526 1.5526 1.5526 1.5596 1.5596 1.5923 1.5923 1.5985 1.6045 1.6104 1.6219 1.6275 1.6331 1.6385 1.6438 1.6439	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8 1258.6 1264.4 1270.1 1275.7 1281.3 1286.9 1292.5 1298.0 1303.5 1308.9	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.41 2.44 2.47 2.50 2.53 2.56 2.59	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5795 I.5795 I.5797 I.5979 I.6039 I.6038 I.6156 I.6270 I.6325 I.6325 I.6343 I.6433 I.6485	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7 1258.5 1264.2 1269.9 1275.6 1281.2 1286.8 1292.4 1297.9 1303.4 1308.8	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43 2.46 2.49 2.55 2.55 2.58	[394.5] I.5325 I.5325 I.5325 I.5533 I.5533 I.5553 I.5553 I.5553 I.5553 I.5573 I.5784 I.5973 I.5973 I.6033 I.6032 I.6151 I.6264 I.6319 I.6420 I.6420	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8 1275.5 1281.1 1286.7 1292.3 1297.8 1297.8 1303.7
400 410 420 430 440 460 470 480 490 500 510 520 530 540 550 550 570	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.37 2.40 2.43 2.40 2.43 2.50 2.50	[393.4] I.5337 I.5386 I.5460 I.5532 I.5670 I.5737 I.5803 I.5929 I.5991 I.6051 I.6168 I.6225 I.6281 I.6336 I.6390 I.6443	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9 1258.7 1264.5 1275.8 1275.8 1275.8 1281.4 1287.0 1292.6 1298.1 1303.6	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.45 2.45 2.45 2.49 2.55 2.55 2.58	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596 1.5596 1.5731 1.5797 1.5985 1.6045 1.6162 1.6219 1.6275 1.6331 1.6385 1.6438	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8 1258.6 1264.4 1270.1 1275.7 1281.3 1286.9 1292.5 1298.0 1303.5	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.44 2.44 2.47 2.50 2.53 2.56	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5917 I.5979 I.6039 I.6038 I.6156 I.6213 I.6270 I.6325 I.6379 I.6433	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1246.8 1252.7 1246.8 1252.7 1258.5 1264.2 1264.2 1269.9 1275.6 1281.2 1286.8 1292.4 1297.9 1303.4	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43 2.46 2.49 2.52 2.55	[394.5] I.5325 I.5366 I.5440 I.5513 I.5651 I.5719 I.5784 I.5973 I.6033 I.6092 I.6151 I.6208 I.6264 I.6319 I.6374 I.6427	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8 1275.5 1281.1 1286.7 1292.3 1297.8 1303.3
400 410 420 430 440 450 460 470 480 490 510 520 530 540 550 550 550 550 550 550 560 570 580 590 600	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.37 2.40 2.43 2.46 2.50 2.50 2.50 2.55 2.65 2.68	[333.4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5867 1.5929 1.5929 1.5991 1.6051 1.61508 1.6225 1.6281 1.6336 1.6330 1.6433 1.6436 1.6548 1.6548 1.6600	1204.2 1210.5 1216.8 1223.0 1229.1 1235.2 1241.2 1247.1 1252.9 1258.7 1264.5 1275.8 1281.4 1287.0 1292.6 1298.1 1303.6 1309.0 1314.4 1319.8	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.45 2.45 2.45 2.49 2.55 2.55 2.55 2.55 2.55 2.55 2.55 2.5	[393.8] 1.5333 1.5379 1.5453 1.5526 1.5596 1.5664 1.5731 1.5797 1.5861 1.5923 1.6045 1.6162 1.6219 1.6275 1.6331 1.6385 1.6438 1.6439 1.6543 1.6594	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8 1258.6 1264.4 1275.7 1281.3 1286.9 1292.5 1298.0 1303.5 1308.9 1314.3 1319.7	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.41 2.44 2.47 2.50 2.53 2.56 2.59 2.62 2.65	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5977 I.5979 I.6039 I.6039 I.6156 I.6156 I.6213 I.6270 I.6325 I.6379 I.6433 I.6485 I.6537 I.6589	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1246.8 1252.7 1258.5 1264.2 1264.2 1264.2 1275.6 1281.2 1286.8 1292.4 1297.9 1303.4 1308.8 1314.2 1319.7	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43 2.43 2.46 2.49 2.52 2.55 2.58 2.61 2.64	[394.5] I.5325 I.5366 I.5440 I.5513 I.5583 I.5651 I.5719 I.5784 I.5973 I.6092 I.6151 I.6264 I.6264 I.6319 I.6374 I.6480 I.6532 I.6583	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8 1275.5 1281.1 1286.7 1292.3 1297.8 1303.3 1308.7 1314.2 1319.6
400 410 420 430 440 460 470 480 490 500 510 520 530 540 550 550 550 550 550 550 55	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.37 2.40 2.43 2.40 2.43 2.50 2.53 2.50 2.59 2.62 2.65 2.68 2.82	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5867 1.5929 1.5991 1.6051 1.6100 1.6168 1.6225 1.6281 1.6336 1.6436 1.6436 1.6436 1.6548 1.6600 1.6846	1204.2 1210.5 1210.5 1223.0 1229.1 1235.2 1241.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2 1275.8 1281.4 1281.4 1283.6 1309.0 1314.4 1319.8 1346.5	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.42 2.42 2.45 2.449 2.55 2.58 2.61 2.64 2.67 2.81	[393.8] 1.53333 1.5379 1.5453 1.5526 1.5526 1.5526 1.5596 1.5596 1.5797 1.5923 1.5923 1.5985 1.6045 1.6162 1.6219 1.6275 1.6331 1.6385 1.6438 1.6491 1.6543 1.6594 1.6594	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8 1252.8 1258.6 1264.4 1270.1 1275.7 1281.3 1286.3 1292.5 1298.0 1393.5 1308.9 1314.3 1319.7 1346.5	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.41 2.44 2.47 2.50 2.53 2.56 2.59 2.62 2.65 2.80	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5795 I.5795 I.5795 I.5797 I.5979 I.6039 I.6038 I.6156 I.6213 I.6225 I.6325 I.6325 I.6337 I.6385 I.6537 I.6589 I.6836	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7 1258.5 1264.2 1269.9 1275.6 1281.2 1285.8 1292.4 1297.9 1303.4 1308.8 1314.2 1319.7 1346.4	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43 2.46 2.49 2.55 2.58 2.61 2.64 2.79	[394.5] I.5325 I.5325 I.5325 I.5533 I.5533 I.5553 I.5553 I.5551 I.5784 I.5973 I.6033 I.6092 I.6151 I.6208 I.6264 I.6319 I.6374 I.6480 I.6532 I.6533 I.6583 I.6830	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8 1275.5 1281.1 1286.7 1292.3 1297.8 1297.8 1308.7 1314.2 1319.6 1346.3
400 410 420 430 440 460 470 480 490 500 510 520 530 540 550 550 550 550 550 550 55	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.37 2.40 2.43 2.40 2.43 2.46 2.50 2.53 2.56 2.59 2.62 2.65 2.68 2.82 2.97	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5929 1.5929 1.5991 1.6051 1.6108 1.6225 1.6231 1.6336 1.6436 1.6436 1.6438 1.6600 1.6846 1.7078	1204.2 1210.5 1210.5 1223.0 1229.1 1235.2 1241.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2 1275.8 1281.4 1287.0 1292.6 1292.6 1298.1 1303.6 1309.0 1314.4 1319.8 1346.5 1372.9	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.42 2.45 2.45 2.45 2.45 2.45 2.55 2.58 2.61 2.64 2.67 2.81 2.95	[393.8] 1.53333 1.5379 1.5453 1.5526 1.5596 1.5596 1.5596 1.5797 1.5861 1.5923 1.5985 1.6045 1.6162 1.6219 1.6275 1.6331 1.6385 1.6438 1.6438 1.6438 1.6543 1.6594 1.6594 1.7073	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8 1252.8 1258.6 1264.4 1270.1 1275.7 1281.3 1286.9 1292.5 1298.0 1303.5 1308.9 1314.3 1319.7 1346.5 1372.8	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.41 2.44 2.47 2.50 2.53 2.59 2.62 2.65 2.80 2.94	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5917 I.5979 I.6039 I.6039 I.6038 I.6156 I.6213 I.6270 I.6325 I.6379 I.6433 I.6483 I.6483 I.6537 I.6589 I.6836 I.7068	1203.7 1210.1 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7 1258.5 1264.2 1269.9 1275.6 1281.2 1286.8 1292.4 1297.9 1303.4 1292.4 1308.8 1314.2 1319.7 1346.4 1372.8	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43 2.40 2.43 2.49 2.52 2.55 2.58 2.61 2.64 2.79 2.93	[394.5] I.5325 I.5366 I.5440 I.5533 I.5583 I.5583 I.5719 I.5784 I.5973 I.6973 I.6033 I.6092 I.6151 I.6268 I.6264 I.6319 I.6374 I.6427 I.6480 I.6532 I.6583 I.68830 I.7063	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8 1275.5 1281.1 1286.7 1292.3 1297.3 1308.7 1314.2 1319.6 1346.3 1372.7
400 410 420 430 440 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 650 700 750	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.34 2.37 2.40 2.43 2.46 2.50 2.53 2.56 2.59 2.62 2.65 2.65 2.68 2.82 2.97 3.11	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5807 1.5929 1.5991 1.6051 1.6100 1.6168 1.6225 1.6281 1.6336 1.6390 1.6433 1.6436 1.6548 1.7299	1204.2 1210.5 12210.5 1223.0 1229.1 1235.2 1241.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2 1275.8 1281.4 1287.0 1292.6 1292.6 1298.1 1303.0 1314.4 1319.8 1346.5 1372.9 1399.0	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.42 2.45 2.49 2.55 2.55 2.55 2.61 2.64 2.64 2.67 2.81 2.95 3.09	[393.8] 1.53333 1.5379 1.5453 1.5526 1.5566 1.5596 1.5596 1.5731 1.5797 1.5861 1.5923 1.5923 1.5985 1.6045 1.6104 1.6162 1.6219 1.6275 1.6331 1.6385 1.6438 1.6438 1.6438 1.6594 1.6594 1.7073 1.7294	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8 1258.6 1264.4 1270.1 1275.7 1281.3 1286.9 1292.5 1298.0 1303.5 1308.9 1314.3 1319.7 1346.5 1372.8 1399.0	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.41 2.44 2.47 2.50 2.53 2.50 2.53 2.50 2.59 2.62 2.65 2.80	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5979 I.6039 I.6038 I.6156 I.6213 I.6225 I.6379 I.6433 I.6433 I.6433 I.6435 I.6537 I.6586 I.7289	1203.7 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7 1258.5 1264.2 1269.9 1275.6 1281.2 1286.8 1292.4 1297.9 1303.4 1308.8 1314.2 1319.7 1346.4 1372.8 1398.9	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43 2.40 2.43 2.46 2.49 2.52 2.55 2.58 2.61 2.64 2.79 2.93 3.07	[394.5] I.5325 I.5366 I.5440 I.5513 I.5651 I.5719 I.5734 I.5973 I.6033 I.6092 I.6151 I.6208 I.6264 I.6319 I.6374 I.6427 I.6483 I.6532 I.6583 I.6583 I.6583 I.6583 I.7063 I.7084	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1240.6 1252.5 1258.3 1264.1 1269.8 1275.5 1281.1 1286.7 1292.3 1297.8 1308.7 1314.2 1319.6 1346.3 1372.7 1398.9
400 410 420 430 440 460 470 480 490 500 510 520 530 540 550 550 550 580 590 600 650 700	2.03 2.07 2.11 2.14 2.17 2.21 2.24 2.27 2.31 2.34 2.37 2.40 2.43 2.40 2.43 2.46 2.50 2.53 2.56 2.59 2.62 2.65 2.68 2.82 2.97	[393.4] 1.5337 1.5386 1.5460 1.5532 1.5670 1.5737 1.5803 1.5929 1.5929 1.5991 1.6051 1.6108 1.6225 1.6231 1.6336 1.6436 1.6436 1.6438 1.6600 1.6846 1.7078	1204.2 1210.5 1210.5 1223.0 1229.1 1235.2 1241.2 1241.2 1247.1 1252.9 1258.7 1264.5 1270.2 1275.8 1281.4 1287.0 1292.6 1292.6 1298.1 1303.6 1309.0 1314.4 1319.8 1346.5 1372.9	2.02 2.06 2.10 2.13 2.16 2.20 2.23 2.26 2.30 2.33 2.36 2.39 2.42 2.45 2.45 2.45 2.45 2.45 2.55 2.58 2.61 2.64 2.67 2.81 2.95	[393.8] 1.53333 1.5379 1.5453 1.5526 1.5596 1.5596 1.5596 1.5797 1.5861 1.5923 1.5985 1.6045 1.6162 1.6219 1.6275 1.6331 1.6385 1.6438 1.6438 1.6438 1.6543 1.6594 1.6594 1.7073	1204.0 1210.3 1216.6 1222.8 1229.0 1235.0 1241.0 1246.9 1252.8 1258.6 1264.4 1270.1 1275.7 1281.3 1286.9 1292.5 1298.0 1303.5 1308.9 1314.3 1319.7 1346.5 1372.8 1399.0	2.01 2.05 2.09 2.12 2.15 2.19 2.22 2.25 2.29 2.32 2.35 2.38 2.41 2.44 2.47 2.50 2.53 2.59 2.62 2.65 2.80 2.94	[394.2] I.5329 I.5373 I.5447 I.5519 I.5658 I.5725 I.5790 I.5855 I.5917 I.5979 I.6039 I.6039 I.6038 I.6156 I.6213 I.6270 I.6325 I.6379 I.6433 I.6483 I.6483 I.6537 I.6589 I.6836 I.7068	1203.7 1216.4 1222.7 1228.8 1234.9 1240.9 1246.8 1252.7 1258.5 1264.2 1269.9 1275.6 1281.2 1286.8 1292.4 1297.9 1303.4 1398.8 1314.2 1319.7 1346.4 1372.8 1398.9	2.00 2.04 2.08 2.11 2.14 2.18 2.21 2.24 2.28 2.31 2.34 2.37 2.40 2.43 2.40 2.43 2.49 2.52 2.55 2.58 2.61 2.64 2.79 2.93	[394.5] I.5325 I.5366 I.5440 I.5533 I.5583 I.5583 I.5719 I.5784 I.5973 I.6973 I.6033 I.6092 I.6151 I.6268 I.6264 I.6319 I.6374 I.6427 I.6480 I.6532 I.6583 I.68830 I.7063	1203.5 1209.9 1216.3 1222.5 1228.6 1234.7 1240.7 1246.6 1252.5 1258.3 1264.1 1269.8 1275.5 1281.1 1286.7 1292.3 1297.3 1308.7 1314.2 1319.6 1346.3 1372.7

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Pres- sure		233 [394.9]			234 [395-3]			235 [395.6]			236 [396.0]	
Temp °F.	۷	s	i	v	S	i	۷	S	i	v	8	i
Sat.	1.98	1.5321	1200.0	1.97	1.5318	1200.1	1.96	1.5314	1200.1	1.95	1.5310	I 200. I
400	2.00	1.5360	1203.3	1.99	1.5353	1203.1	1.98	1.5346	1202.9	1.97	1.5340	1202.7
410	2.03	1.5434	1209.8	2.02	1.5427	1209.6	2.01	1.5421	1209.4	2.00	1.5414	1209.2
420	2.07	1.5506	1216.1	2.06	1.5500	1215.9	2.05	1.5494	1215.7	2.04	1.5487	1215.5
430	2.10	1.5576	1222.3	2.09	1.5570	1222.1	2.08	1.5564	1222.0	2.07	1.5558	1221.8
440	2.13	1.5645	1228.5	2.12	1.5639	1228.3	2.11	1.5633	1228.2	2.10	1.5627	1228.0
450	2.17	1.5712	1234.6	2.16	1.5706	1234.4	2.15	1.5700	1234.3	2.14	1.5694	1234.1
460	2.20	1.5778	1240.6	2.19	1.5772	1240.4	2.18	1.5766	1240.3	2.17	1.5760	1240.1
470	2.23	1.5842	1246.5	2.22	1.5836	1246.4	2.21	1.5831	1246.2	2.20	1.5825	1246.1
480	2.26	1.5905	1252.4	2.25	1.5899	1252.3	2.24	1.5894	1252.1	2.23	1.5888	1251.9
490	2.30	1.5967	1258.2	2.29	1.5961	1258.1	2.28	1.5955	1257.9	2.27	1.5950	1257.8
500	2.33	1.6028	1264.0	2.32	1.6022	1263.9	2.31	1.6016	1 263.7	2.30	1.6010	1263.6
510	2.36	1.6087	1269.7	2.35	1.6081	1269.6	2.34	1.6075	1 269.5	2.33	1.6070	1269.3
520	2.39	1.6145	1275.4	2.38	1.6139	1275.3	2.37	1.6134	1 275.1	2.36	1.6128	1275.0
530	2.42	1.6202	1281.0	2.41	1.6196	1280.9	2.40	1.6191	1 280.8	2.39	1.6186	1280.7
540	2.45	1.6258	1286.6	2.44	1.6253	1286.5	2.43	1.6247	1 286.4	2.42	1.6242	1286.3
550	2.48	1.6314	1292.2	2.47	1.6308	1292.1	2.46	1.6303	1292.0	2.45	1.6297	1291.9
560	2.51	1.6368	1297.7	2.50	1.6363	1297.6	2.49	1.6357	1297.5	2.48	1.6352	1297.4
570	2.54	1.6422	1303.2	2.53	1.6416	1303.1	2.52	1.6411	1303.0	2.51	1.6405	1302.9
580	2.57	1.6475	1308.6	2.56	1.6469	1308.6	2.55	1.6464	1308.5	2.54	1.6458	1308.4
590	2.60	1.6527	1314.1	2.59	1.6521	1314.0	2.58	1.6516	1313.9	2.57	1.6510	1313.8
600	2.63	1.6578	1319.5	2.62	1.6573	1319.4	2.61	1.6567	1319.3	2.60	1.6562	1319.2
650	2.77	1.6825	1346.3	2.76	1.6820	1346.2	2.75	1.6815	1346.1	2.74	1.6809	1346.0
700	2.91	1.7058	1372.7	2.90	1.7053	1372.6	2.89	1.7047	1372.5	2.88	1.7042	1372.5
750	3.05	1.7279	1398.9	3.04	1.7274	1398.8	3.03	1.7269	1398.8	3.01	1.7264	1398.7
800	3.19	1.7490	1424.9	3.17	1.7485	1424.9	3.16	1.7480	1424.9	3.15	1.7475	1424.8

		237 [396.4]			238 [396.8]			239 [397.1]			240 [397.5]	
Sat.	1.95	1.5306	1 200.2	1.94	1.5302	1200.2	1.93	1.5299	1200.2	1.92	1.5295	1200.3
400	1.96	1.5333	1202.5	1.95	1.5327	1202.3	1.94	1.5320	1202.2	1.93	1.5314	1202.0
410	1.99	1.5408	1209.0	1.98	1.5402	1208.8	1.97	1.5395	1 208.6	1.96	1.5389	1208.4
420	2.03	1.5481	1215.4	2.02	1.5474	1215.2	2.01	1.5468	1215.0	2.00	1.5462	1214.8
430	2.06	1.5552	1221.6	2.05	1.5545	1221.5	2.04	1.5539	1221.3	2.03	1.5533	1221.1
440	2.09	1.5621	1227.8	2.08	1.5614	1227.7	2.07	1.5608	1227.5	2.07	1.5602	1227.3
450	0.70	1.5688	7 9 9 9 9		690			6-6	7000 6		1.5670	7000 F
460	2.13 2.16	1.5754	1233.9 1240.0	2.12	1.5682	1233.8 1239.8	2.II 2.I4	1.5676	1233.6 1239.7	2.10 2.13	1.5736	1233.5
470	2.10	1.5819	1245.9	2.15	1.5813	1239.8	2.14	1.5807	1239.7	2.15	1.5801	1239.5
480	.2.22	1.5882	1245.9	2.21	1.5876	1245.0	2.20	1.5870	1245.6	2.19	1.5864	1251.4
490	2.26	1.5944	1257.7	2.25	1.5938	1257.5	2.24	1.5932	1257.4	2.23	1.5926	1257.3
			5/11		1.3930			1.393-	57.4			57.5
500	2.29	1.6004	1263.5	2.28	1.5999	1263.3	2.27	1.5993	1263.2	2.26	1.5987	1263.1
510	2.32	1.6064	1269.2	2.31	1.6058	1269.1	2.30	1.6052	1269.0	2.29	1.6047	1268.8
520	2.35	1.6122	1274.9	2.34	1.6117	1274.8	2.33	1.6111	1274.7	2.32	1.6105	1274.5
530	2.38	1.6180	1280.6	2.37	1.6174	1280.5	2.36	1.6168	1280.3	2.35	1.6163	1280.2
540	2.41	1.6236	1286.2	2.40	1.6231	1286.1	2.39	1.6225	1286.0	2.38	1.6220	1285.9
550	2.44	1.6292	1291.8	2.43	1.6286	1291.6	2.42	1.6280	1291.5	2.41	1.6275	1291.4
560	2.47	1.6346	1297.3	2.46	1.6341	1297.2	2.45	1.6335	1297.1	2.44	1.6330	1297.0
570	2.50	1.6400	1302.8	2.49	1.6394	1302.7	2.48	1.6389	1302.6	2.46	1.6384	1302.5
580	2.53	1.6453	1308.3	2.52	1.6447	1308.2	2.50	1.6442	1308.1	2.49	1.6437	1308.0
590	2.56	1.6505	1313.7	2.54	1.6500	1313.6	2.53	1.6495	1313.6	2.52	1.6489	1313.5
600		- 6			- 6		6	- 6-16			× 6 = 1 =	7278 0
650	2.59	1.6557 1.6804	1319.2	2.57	1.6551	1319.1	2.56	1.6546	1319.0	2.55 2.69	1.6541	1318.9 1345.8
700	2.73	1.0004	1346.0	2.71 2.85	1.6799	1345.9	2.70	1.6794	1345.8	2.83	1.7022	1345.8
750	3.00		1372.4	-	1.7032	1372.4 1398.6		1.7249	13/2.3	2.96	1.7244	13/2.3
800	3.13	1.7259	1398.7	2.99	1.7254		2.97 3.11	1.7461	1398.0	3.09	1.7456	1390.5
	3.13	1.7470	1424.0	3.12	1.7405	1424.7	3.11	1.7401	1424./	3.09	1.7450	1404.1

Pres- sure		241 [397.9]			242 [398.2]			243 [398.6]			244 [398.9]	
Temp ° F.	v	s	i	v	s	i	v	s	i	v	s	i
Sat.	1.91	1.5291	1200.3	1.91	1.5288	1200.4	1.90	1.5284	1200.4	1.89	1.5280	1200.4
400 410	1.92 1.96	1.5307 1.5382	1201.8	1.91 1.95	1.5301	1201.6 1208.1	1.90 1.94	1.5294	1201.4	1.89 1.93	1.5288	1201.2
		1.5456	1214.7							1.95		
420	1.99		1214.7	1.98	1.5449	1214.5	1.97 2.00	1.5443	1214.3		1.5437	1214.1
430 440	2.02	1.5527 1.5596	1227.2	2.01 2.05	1.5521 1.5590	1220.0	2.00	1.5514	1226.8	1.99 2.03	1.5508 1.5578	1220.4 1226.7
450	2.09	1.5664	1233.3	2.08	1.5658	1233.1	2.07	1.5652	1233.0	2.06	1.5646	1232.8
460	2.12	1.5730	1239.4	2.11	1.5724	1239.2	2.10	1.5719	1239.1	2.09	1.5713	1238.9
470	2.15	1.5795	1245.4	2.14	1.5789	1245.2	2.13	1.5784	1245.1	2.12	1.5778	1244.9
480	2.18	1.5859	1251.3	2.17	1.5853	1251.1	2.16	1.5847	1251.0	2.15	1.5841	1250.9
	2.22	1.5921					2.20		1256.9			1256.8
490	2.22	1.5921	1257.2	2.21	1.5915	1257.0	2.20	1.5909	1250.9	2.19	1.5904	1250.0
500	2.25	1.5982	1263.0	2.24	1.5976	1262.8	2.23	1.5970	1262.7	2.22	1.5965	1262.6
	2.25	1.5982	1203.0		1.6035	1262.8	2.23	1.5970	1202.7		1.5905	1268.4
510				2.27						2.25		
520	2.31	1.6099	1274.4	2.30	1.6094	1274.3	2.29	1.6089	1274.2	2.28	1.6083	1274.1
530	2.34	1.6157	1280.1	2.33	1.6152	1280.0	2.32	1.6146	1279.9	2.31	1.6141	1279.8
540	2.37	1.6214	1285.7	2.36	1.6209	1285.6	2.35	1.6203	1285.5	2.34	1.6198	1285.4
550		× 6-60	7.00-		- 6-6		0.00	× 6			- 6	
	2.40	1.6269	1291.3	2.39	1.6264	1291.2	2.38	1.6259	1291.1	2.37	1.6254	1291.0
- 560	2.42	1.6324	1296.9	2.41	1.6319	1296.8	2.40	1.6314	1296.7	2.39	1.6308	1296.5
570	2.45	1.6378	1302.4	2.44	1.6373	1302.3	2.43	1.6368	1302.2	2.42	1.6362	1302.1
580	2.48	1.6431	1307.9	2.47	1.6426	1307.8	2.46	1.6421	1307.7	2.45	1.6416	1307.6
590	2.51	1.6484	1313.4	2.50	1.6479	1313:3	2.49	1.6473	1313.2	2.48	1.6468	1313.1
600	2.54	1.6535	1318.8	2.53	1.6530	1318.7	2.52	1.6525	1318.7	2.51	1.6520	1318.6
650	2.68	1.6784	1345.7	2.67	1.6779	1345.6	2.66	1.6773	1345.6	2.65	1.6768	1345.5
700	2.81	1.7017	1345.7	2.80	1.7012					2.78	1.7002	
	2.95		1398.5	2.94		1372.1 1398.4	2.79	1.7007 1.7229	1372.1 1398.4	. 2.91	1.7224	1372.0 1398.3
750 800		1.7239			1.7234		2.92			~		
300	3.08	1.7451	1424.6	3.07	1.7446	1424.6	3.05	1.7441	1424.5	3.04	1.7436	1424.5
											1	
		245			246			247			248	
		[399-3]			[399.7]			[400.0]			[400.4]	
Sat.	1.88	[399-3] 1.5276	1200.5	1.88	[399.7] 1.5273	1200.5	1.87	[400.0] 1.5269	1200.5	1.86	[400.4] 1.5266	1200.6
410	1.92	[399.3] 1.5276 1.5357	1207.5	1.91	[399.7] 1.5273 1.5351	1207.3	1.90	[400.0] 1.5269 1.5344	1207.1	1.89	[400.4] 1.5266 1.5338	1206.9
410 420	1.92 1.95	[399.3] 1.5276 1.5357 1.5430	1207.5 1213.9	1.91 1.94	[399.7] 1.5273 1.5351 1.5424	1207.3 1213.7	1.90 1.94	[400.0] 1.5269 1.5344 1.5418	1207.1 1213.6	1.89 1.93	[400.4] 1.5266 1.5338 1.5412	1206.9 1213.4
410 420 430	1.92 1.95 1.99	[399.3] 1.5276 1.5357 1.5430 1.5502	1207.5 1213.9 1220.2	1.91 1.94 1.98	[399.7] 1.5273 1.5351 1.5424 1.5496	1207.3 1213.7 1220.1	1.90 1.94 1.97	[400.0] 1.5269 1.5344 1.5418 1.5490	1207.1 1213.6 1219.9	1.89 1.93 1.96	[400.4] 1.5266 1.5338 1.5412 1.5484	1206.9 1213.4 1219.7
410 420 430 440	1.92 1.95 1.99 2.02	[399-3] 1.5276 1.5357 1.5430 1.5502 1.5572	1207.5 1213.9 1220.2 1226.5	1.91 1.94 1.98 2.01	[399.7] 1.5273 1.5351 1.5424 1.5496 1.5566	1207.3 1213.7 1220.1 1226.3	1.90 1.94 1.97 2.00	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560	1207.1 1213.6 1219.9 1226.2	1.89 1.93 1.96 1.99	[400.4] 1.5266 1.5338 1.5412 1.5484 1.5554	1206.9 1213.4 1219.7 1226.0
410 420 430 440 450	1.92 1.95 1.99 2.02 2.05	[399-3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5640	1207.5 1213.9 1220.2 1226.5 1232.7	1.91 1.94 1.98 2.01 2.04	[399.7] 1.5273 1.5351 1.5424 1.5496 1.5566 1.5566	1207.3 1213.7 1220.1 1226.3 1232.5	1.90 1.94 1.97 2.00 2.03	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628	1207.1 1213.6 1219.9 1226.2 1232.4	1.89 1.93 1.96 1.99 2.02	[400.4] 1.5266 1.5338 1.5412 1.5484 1.5554 1.5622	1206.9 1213.4 1219.7 1226.0 1232.2
410 420 430 440 450 460	1.92 1.95 1.99 2.02 2.05 2.08	[399-3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5572 1.5640 1.5707	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8	1.91 1.94 1.98 2.01 2.04 2.07	[399.7] 1.5273 1.5351 1.5424 1.5496 1.5566 1.5566 1.5634 1.5701	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6	1.90 1.94 1.97 2.00 2.03 2.06	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628 1.5695	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5	1.89 1.93 1.96 1.99 2.02 2.06	[400.4] 1.5266 1.5338 1.5412 1.5484 1.5554 1.5622 1.5689	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3
410 420 430 440 450 460 470	1.92 1.95 1.99 2.02 2.05 2.08 2.11	[399.3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5640 1.5707 1.5772	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8	1.91 1.94 1.98 2.01 2.04 2.07 2.10	[399.7] 1.5273 1.5351 1.5424 1.5496 1.5566 1.5634 1.5701 1.5766	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6	1.90 1.94 1.97 2.00 2.03 2.06 2.10	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5560 1.5628 1.5695 1.5760	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5	1.89 1.93 1.96 1.99 2.02 2.06 2.09	[400.4] 1.5266 1.5338 1.5412 1.5484 1.5554 1.5554 1.5622 1.5689 1.5754	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3
410 420 430 440 450 460 470 480	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15	[399.3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5640 1.5707 1.5772 1.5836	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1250.7	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14	[399.7] 1.5273 1.5351 1.5424 1.5496 1.5566 1.5634 1.5701 1.5766 1.5766 1.5830	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6 1250.6	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628 1.5695 1.5760 1.5824	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1244.5 1250.4	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12	[400.4] 1.5266 1.5338 1.5412 1.5484 1.5554 1.5622 1.5689 1.5754 1.5818	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3
410 420 430 440 450 460 470	1.92 1.95 1.99 2.02 2.05 2.08 2.11	[399.3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5640 1.5707 1.5772	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8	1.91 1.94 1.98 2.01 2.04 2.07 2.10	[399.7] 1.5273 1.5351 1.5424 1.5496 1.5566 1.5634 1.5701 1.5766	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6	1.90 1.94 1.97 2.00 2.03 2.06 2.10	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5560 1.5628 1.5695 1.5760	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5	1.89 1.93 1.96 1.99 2.02 2.06 2.09	[400.4] 1.5266 1.5338 1.5412 1.5484 1.5554 1.5554 1.5622 1.5689 1.5754	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3
410 420 430 440 450 460 470 480	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15	[399.3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5640 1.5707 1.5772 1.5836 1.5898	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1250.7 1256.6	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17	[399.7] 1.5273 1.5273 1.5351 1.5424 1.5496 1.5566 1.5634 1.5701 1.5766 1.5766 1.5830 1.5892	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6 1250.6 1256.5	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628 1.5695 1.5760 1.5824 1.5887	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1250.4 1256.3	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15	[400.4] 1.5266 1.5338 1.5412 1.5484 1.5554 1.5622 1.5689 1.5754 1.5818 1.5881	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2
410 420 430 440 450 460 470 480 490 500	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21	[399.3] I.5276 I.5357 I.5430 I.5502 I.5572 I.5640 I.5707 I.5772 I.5836 I.5898 I.5959	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1250.7 1256.6 1262.5	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20	[399.7] 1.5273 1.5273 1.5351 1.5424 1.5496 1.5566 1.5634 1.5701 1.5766 1.5830 1.5892 1.5953	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6 1250.6 1256.5 1256.5	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628 1.5695 1.5760 1.5824 1.5887 1.5948	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1250.4 1256.3 1262.2	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12	[400.4] I.5266 I.5338 I.5412 I.5484 I.5554 I.5689 I.5754 I.5818 I.5881 I.5942	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1
410 420 430 440 450 460 470 480 490 500 510	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.21 2.24	[399.3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5640 1.5777 1.5836 1.5898 1.5959 1.6019	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1244.8 1250.7 1256.6 1262.5 1268.2	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23	[399.7] 1.5273 1.5351 1.5424 1.5424 1.5566 1.5664 1.5766 1.5766 1.5766 1.5830 1.5766 1.5892 1.5953 1.6013	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6 1250.6 1256.5 1262.3 1268.1	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22	[400.0] 1.5269 1.5344 1.5448 1.5560 1.5560 1.5760 1.5760 1.5824 1.5887 1.5948 1.5098	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1244.5 1250.4 1256.3 1262.2 1262.2 1268.0	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21	[400.4] 1.5266 1.5338 1.5412 1.5484 1.5554 1.5689 1.5754 1.5818 1.5881 1.5942 1.6002	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9
410 420 430 440 450 460 470 480 490 500 510 520	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.21 2.24 2.27	[399.3] I.5276 I.5357 I.5430 I.5572 I.5572 I.5640 I.5772 I.5836 I.5898 I.5898 I.5959 I.6019 I.6078	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1250.7 1256.6 1262.5 1268.2 1274.0	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26	[399.7] 1.5273 1.5351 1.5424 1.5566 1.5634 1.5701 1.5706 1.5830 1.5892 1.5892 1.5953 1.6072	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6 1250.6 1256.5 1262.3 1268.1 1273.9	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25	[400.0] I.5269 I.5344 I.5418 I.5490 I.5560 I.5628 I.5695 I.5760 I.5824 I.5887 I.5887 I.5948 I.6068 I.6067	1207.1 1213.6 1219.9 1226.2 1238.5 1244.5 1250.4 1250.4 1256.3 1262.2 1268.0 1273.7	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24	[400.4] I.5266 I.5338 I.5412 I.5484 I.5554 I.5622 I.5682 I.5754 I.5818 I.5881 I.5881 I.5942 I.6002 I.6061	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6
410 420 430 440 450 460 470 480 490 500 510	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.21 2.24	[399.3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5640 1.5777 1.5836 1.5898 1.5959 1.6019	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1244.8 1250.7 1256.6 1262.5 1268.2	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23	[399.7] 1.5273 1.5351 1.5424 1.5424 1.5566 1.5664 1.5766 1.5766 1.5766 1.5830 1.5766 1.5892 1.5953 1.6013	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6 1250.6 1256.5 1262.3 1268.1	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22	[400.0] 1.5269 1.5344 1.5448 1.5560 1.5560 1.5760 1.5760 1.5824 1.5887 1.5948 1.5098	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1244.5 1250.4 1256.3 1262.2 1262.2 1268.0	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21	[400.4] 1.5266 1.5338 1.5412 1.5484 1.5554 1.5689 1.5754 1.5818 1.5881 1.5942 1.6002	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9
410 420 430 440 450 460 470 480 490 500 510 520 530 540	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33	[399.3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5640 1.5777 1.5836 1.5898 1.5959 1.6019 1.6078 1.6135 1.6192	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1244.8 1250.7 1256.6 1262.5 1268.2 1274.0 1279.7 1285.3	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32	[399.7] 1.5273 1.5351 1.5424 1.5424 1.5566 1.5664 1.5766 1.5766 1.5766 1.57830 1.57892 1.5953 1.6013 1.6072 1.6187	1207.3 1213.7 1220.1 1226.3 1238.6 1244.6 1250.6 1244.6 1256.5 1262.3 1268.1 1273.9 1279.6 1285.2	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5760 1.5760 1.57824 1.5887 1.5948 1.6008 1.6067 1.6125 1.6182	1207.1 1213.6 1219.9 1226.2 1238.5 1238.5 1244.5 1244.5 1250.4 1250.3 1262.2 1268.0 1273.7 1279.4 1285.1	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30	[400.4] 1.5266 1.5338 1.5412 1.5422 1.5689 1.5754 1.5818 1.5881 1.5942 1.6002 1.6001 1.6176	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0
410 420 430 440 460 470 480 490 510 520 530 540 550	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.36	[399.3] 1.5276 1.5357 1.5430 1.5552 1.5572 1.5640 1.5777 1.5772 1.5836 1.5898 1.5959 1.6078 1.6135 1.6132 1.6248	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1244.8 1250.7 1256.6 1262.5 1268.2 1274.0 1279.7 1285.3 1290.9	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.35	[399.7] 1.5273 1.5351 1.5424 1.5496 1.5566 1.5701 1.5706 1.5706 1.5706 1.5706 1.5706 1.5706 1.5706 1.5706 1.5707 1.5253 1.6073 1.6187 1.6243	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6 1250.6 1250.6 1255.5 1262.3 1268.1 1273.9 1279.6 1285.2 1290.8	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.34	[400.0] 1.5269 1.5344 1.5418 1.5550 1.5560 1.5760 1.5760 1.5824 1.5887 1.5948 1.6068 1.6067 1.6182 1.6182 1.6238	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1250.4 1250.3 1262.2 1268.0 1273.7 1279.4 1285.1 1290.7	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30 2.33	[400.4] 1.5266 1.5338 1.5412 1.5484 1.5554 1.5622 1.5622 1.5754 1.5818 1.5881 1.5942 1.6002 1.6019 1.6176 1.6232	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6
410 420 430 440 450 450 470 480 490 500 510 520 530 540 550 560	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.36 2.38	[399.3] I.5276 I.5357 I.5430 I.5572 I.5572 I.5640 I.5772 I.5836 I.5898 I.5898 I.5959 I.6019 I.6078 I.6135 I.6135 I.6192 I.6248 I.6303	1207.5 1213.9 1220.2 1126.5 1232.7 1238.8 1244.8 1250.7 1256.6 1262.5 1268.2 1274.0 1279.7 1285.3 1290.9 1296.5	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.35 2.37	[399.7] 1.5273 1.5351 1.5424 1.5496 1.5566 1.5634 1.5766 1.5830 1.5892 1.5892 1.5953 1.6013 1.6072 1.6130 1.6187 1.6243 1.6298	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1250.6 1250.6 1250.5 1262.3 1268.1 1273.9 1279.6 1285.2 1290.8 1290.4	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.34 2.36	[400.0] I.5269 I.5344 I.5418 I.5490 I.5560 I.5628 I.5628 I.5760 I.5824 I.5887 I.5948 I.6008 I.607 I.6125 I.6182 I.6238 I.6293	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1250.4 1256.3 1262.2 1268.0 1273.7 1279.4 1285.1 1290.7 1296.3	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.35	[400.4] I.5266 I.5338 I.5412 I.5484 I.5554 I.5622 I.5623 I.5754 I.5818 I.5881 I.5942 I.6002 I.6019 I.6176 I.6232 I.6287	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6 1290.6 1296.2
410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.21 2.24 2.27 2.30 2.33 2.36 2.38 2.41	[399.3] 1.5276 1.5377 1.5400 1.5502 1.5502 1.5502 1.5502 1.5707 1.5772 1.5836 1.5898 1.5959 1.6019 1.6078 1.6135 1.6135 1.6135	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1250.7 1256.6 1262.5 1268.2 1274.0 1279.7 1285.3 1290.9 1296.5 1302.0	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.32 2.35 2.37 2.40	[399.7] 1.5273 1.5373 1.5424 1.5496 1.5424 1.5701 1.5766 1.5830 1.5830 1.5953 1.6013 1.6072 1.6130 1.6130 1.6137 1.6243 1.6243 1.6352	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1250.6 1250.6 1256.5 1268.1 1273.9 1279.6 1285.2 1290.8 1290.8 1290.4 1301.9	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.31 2.34 2.36 2.39	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628 1.5695 1.5760 1.5824 1.5887 1.5948 1.6008 1.6025 1.6125 1.6125 1.6123 1.6238 1.6238 1.62347	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1250.4 1250.4 1250.3 1268.0 1268.0 1268.0 1268.0 1268.1 1269.7 1279.4 1285.1 1290.7 1296.3 1301.8	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.21 2.22 2.30 2.33 2.35 2.38	[400.4] 1.5266 1.5338 1.5412 1.542 1.5454 1.5554 1.5689 1.5754 1.5818 1.5942 1.6002 1.6019 1.6176 1.6232 1.6287 1.6341	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6 1290.6 1296.2 1301.7
410 420 430 440 450 450 470 480 490 500 510 520 530 540 550 560	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.36 2.38	[399.3] I.5276 I.5357 I.5430 I.5572 I.5572 I.5640 I.5772 I.5836 I.5898 I.5898 I.5959 I.6019 I.6078 I.6135 I.6135 I.6192 I.6248 I.6303	1207.5 1213.9 1220.2 1126.5 1232.7 1238.8 1244.8 1250.7 1256.6 1262.5 1268.2 1274.0 1279.7 1285.3 1290.9 1296.5	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.35 2.37	[399.7] 1.5273 1.5351 1.5424 1.5496 1.5566 1.5634 1.5766 1.5830 1.5892 1.5892 1.5953 1.6013 1.6072 1.6130 1.6187 1.6243 1.6298	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1250.6 1250.6 1250.5 1262.3 1268.1 1273.9 1279.6 1285.2 1290.8 1290.4	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.34 2.36	[400.0] I.5269 I.5344 I.5418 I.5490 I.5560 I.5628 I.5628 I.5760 I.5824 I.5887 I.5948 I.6008 I.607 I.6125 I.6182 I.6238 I.6293	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1250.4 1256.3 1262.2 1268.0 1273.7 1279.4 1285.1 1290.7 1296.3	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.35	[400.4] I.5266 I.5338 I.5412 I.5484 I.5554 I.5622 I.5623 I.5754 I.5818 I.5881 I.5942 I.6002 I.6019 I.6176 I.6232 I.6287	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6 1290.6 1296.2
410 420 430 440 450 450 470 480 490 500 510 520 530 540 550 560 570 580 590	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.36 2.38 2.41 2.44 2.44	$\begin{bmatrix} 399.3 \\ 1.5276 \\ 1.5357 \\ 1.5430 \\ 1.5572 \\ 1.5572 \\ 1.5772 \\ 1.5772 \\ 1.5836 \\ 1.5898 \\ 1.5959 \\ 1.6078 \\ 1.6078 \\ 1.6135 \\ 1.6135 \\ 1.6132 \\ 1.6248 \\ 1.6303 \\ 1.6357 \\ 1.6410 \\ 1.6463 \\ \end{bmatrix}$	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1244.8 1250.7 1256.6 1262.5 1268.2 1279.7 1285.3 1290.9 1290.9 1290.5 1302.0 1302.0 1307.5	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.35 2.35 2.35 2.37 2.40 2.43	$\begin{bmatrix} 399.7 \\ 1.5273 \\ 1.5351 \\ 1.5424 \\ 1.5496 \\ 1.5566 \\ 1.5701 \\ 1.5706 \\ 1.5706 \\ 1.5706 \\ 1.5830 \\ 1.5892 \\ 1.5953 \\ 1.6073 \\ 1.6072 \\ 1.6130 \\ 1.6187 \\ 1.6243 \\ 1.6298 \\ 1.6352 \\ 1.6405 \\ 1.6458 \\ $	1207.3 1213.7 1220.1 1226.3 1232.6 1232.6 1232.6 1244.6 1250.6 1250.6 1262.3 1268.1 1273.9 1279.6 1285.2 1290.8 1296.4 1301.9 1307.5 1312.9	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.34 2.36 2.39 2.42 2.45	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628 1.5628 1.5628 1.5628 1.5760 1.5824 1.5887 1.5948 1.6088 1.6067 1.6125 1.6182 1.6238 1.6238 1.6233 1.6347 1.6400 1.6453	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1244.5 1250.4 1250.4 1256.3 1262.2 1268.0 1273.7 1279.4 1285.1 1290.7 1290.7 1290.8 1301.8 1307.4	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.35 2.38 2.41	$\begin{bmatrix} 400.4 \end{bmatrix} \\ \hline 1.5266 \\ \hline 1.5338 \\ \hline 1.542 \\ \hline 1.5554 \\ \hline 1.5554 \\ \hline 1.5554 \\ \hline 1.5554 \\ \hline 1.5754 \\ \hline 1.5754 \\ \hline 1.5818 \\ \hline 1.5881 \\ \hline 1.5942 \\ \hline 1.6002 \\ \hline 1.6002 \\ \hline 1.6017 \\ \hline 1.6232 \\ \hline 1.6237 \\ \hline 1.6341 \\ \hline 1.6395 \\ \hline 1.6447 $	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6 1296.2 1301.7 1307.3 1312.8
410 420 430 440 450 450 470 480 490 500 510 520 530 530 540 550 560 570 580 590 600	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.36 2.38 2.41 2.24 2.27 2.30 2.38 2.41 2.44 2.44 2.44 2.50	[399.3] 1.5276 1.5377 1.5420 1.5502 1.5502 1.5502 1.5707 1.5772 1.5836 1.5898 1.5959 1.6019 1.6019 1.6078 1.6135 1.6192 1.6248 1.6333 1.6357 1.6410 1.6463 1.6514	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1244.8 1250.7 1256.6 1262.5 1268.2 1279.7 1285.3 1290.9 1290.9 1290.5 1302.0 1302.0 1307.5	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.32 2.35 2.37 2.40 2.43 2.46 2.49	[399.7] 1.5273 1.5373 1.5424 1.5424 1.5426 1.5424 1.5701 1.5766 1.5830 1.5832 1.5953 1.6072 1.6130 1.6130 1.6187 1.6298 1.6298 1.6458 1.6458 1.6509	1207.3 1213.7 1220.1 1226.3 1238.6 1244.6 1250.6 1244.6 1256.5 1262.3 1268.1 1279.6 1285.2 1290.8 1290.8 1290.4 1301.9 1307.5	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.34 2.36 2.39 2.42 2.45 2.48	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628 1.5695 1.5760 1.5824 1.5887 1.5948 1.6003 1.6125 1.6125 1.6123 1.6238 1.6238 1.6233 1.6453 1.6453 1.6504	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1250.4 1250.4 1256.3 1262.2 1268.0 1273.7 1279.4 1285.1 1290.7 1296.3 1301.8 1307.4 1312.8 1318.3	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.35 2.38 2.41 2.44 2.47	[400.4] 1.5266 1.5338 1.5412 1.5424 1.5554 1.5689 1.5754 1.5818 1.5942 1.6002 1.6061 1.6176 1.6232 1.6287 1.6395 1.6341 1.6395 1.6447 1.6499	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6 1296.2 1301.7 1307.3 1312.8 1318.2
410 420 430 440 460 470 480 490 510 520 530 540 550 540 550 550 580 590 600 650	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.36 2.38 2.41 2.44 2.44	$\begin{bmatrix} 399.3 \\ 1.5276 \\ 1.5357 \\ 1.5430 \\ 1.5572 \\ 1.5572 \\ 1.5772 \\ 1.5772 \\ 1.5836 \\ 1.5898 \\ 1.5959 \\ 1.6078 \\ 1.6078 \\ 1.6135 \\ 1.6135 \\ 1.6132 \\ 1.6248 \\ 1.6303 \\ 1.6357 \\ 1.6410 \\ 1.6463 \\ \end{bmatrix}$	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1250.7 1256.6 1262.5 1268.2 1274.0 1279.7 1285.3 1290.9 1296.5 1302.0 1307.5 1313.0	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.35 2.37 2.40 2.43 2.46 2.49 2.62	[399.7] 1.5273 1.5373 1.5424 1.5424 1.5426 1.5424 1.5701 1.5766 1.5830 1.5701 1.5766 1.5830 1.5793 1.6013 1.6023 1.6130 1.6130 1.61293 1.6228 1.6352 1.6458 1.6458 1.6509 1.6758	1207.3 1213.7 1220.1 1226.3 1232.6 1232.6 1232.6 1244.6 1250.6 1250.6 1262.3 1268.1 1273.9 1279.6 1285.2 1290.8 1296.4 1301.9 1307.5 1312.9	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.34 2.34 2.34 2.39 2.42 2.45 2.48 2.61	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628 1.5695 1.5760 1.5824 1.5887 1.5948 1.6008 1.6125 1.6125 1.6125 1.6337 1.6453 1.6453 1.6504 1.6554 1.6753	1207.1 1213.6 1219.9 1226.2 1238.5 1244.5 1244.5 1250.4 1250.4 1256.3 1262.2 1268.0 1273.7 1279.4 1285.1 1290.7 1290.4 1301.8 1307.4 1312.8 1318.3 1345.3	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.35 2.38 2.41 2.44	[400.4] 1.5266 1.5338 1.5412 1.5424 1.5554 1.5622 1.5689 1.5754 1.5818 1.5942 1.6002 1.6001 1.6119 1.61232 1.6237 1.6237 1.6341 1.6395 1.6447 1.6499 1.6748	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6 1290.7 1200.0 1290.7 1200.0 1290.7 1200.0 1290.7 1290.0 1290.7 1290.0 1290.7 1290.0 1290.7 1290.0 1290.2 1390.7 1390.2 1200.2 1200.2 1200.2 1200.2 1200.2 1200.2 12
410 420 430 440 450 450 470 480 490 500 510 520 530 530 540 550 560 570 580 590 600	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.36 2.38 2.41 2.24 2.27 2.30 2.38	[399.3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5640 1.5777 1.5836 1.5898 1.5959 1.6019 1.6078 1.6135 1.6192 1.6248 1.6303 1.6357 1.6440 1.6453 1.6453 1.6514 1.6763 1.6997	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1250.7 1256.6 1262.5 1268.2 1274.0 1279.7 1285.3 1290.9 1296.5 1302.0 1307.5 1313.0 1318.5	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.32 2.35 2.37 2.40 2.43 2.46 2.49	[399.7] 1.5273 1.5373 1.5424 1.5424 1.5426 1.5424 1.5701 1.5766 1.5830 1.5832 1.5953 1.6072 1.6130 1.6130 1.6187 1.6298 1.6298 1.6458 1.6458 1.6509	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1250.6 1250.6 1250.6 1268.1 1273.9 1279.6 1285.2 1290.8 1296.4 1301.9 1307.5 1312.9 1318.4	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.34 2.36 2.39 2.42 2.45 2.42 2.45 2.48 2.61 2.75	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628 1.5695 1.5760 1.5824 1.5887 1.5948 1.6008 1.6125 1.6125 1.6125 1.6238 1.6238 1.6238 1.6453 1.6453 1.6504	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1250.4 1250.4 1256.3 1262.2 1268.0 1273.7 1279.4 1285.1 1290.7 1296.3 1301.8 1307.4 1312.8 1318.3	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.35 2.38 2.41 2.44 2.44 2.47 2.60 2.73	[400.4] 1.5266 1.5338 1.5412 1.5424 1.5554 1.5689 1.5754 1.5818 1.5942 1.6002 1.6061 1.6176 1.6232 1.6287 1.6395 1.6341 1.6395 1.6447 1.6499	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6 1296.2 1301.7 1307.3 1312.8 1318.2
410 420 430 440 460 470 480 490 510 520 530 540 550 540 550 550 580 590 600 650	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.36 2.38 2.41 2.44 2.47 2.50 2.63	[399.3] 1.5276 1.5377 1.5400 1.5707 1.5707 1.5707 1.5707 1.5707 1.5707 1.5836 1.5898 1.5959 1.6019 1.6078 1.6135 1.6135 1.6303 1.6357 1.6410 1.6463 1.6514 1.6514 1.6763	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1244.8 1250.7 1256.6 1262.5 1268.2 1279.7 1285.3 1290.5 1302.0 1307.5 1302.0 1307.5 1313.0	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.35 2.37 2.40 2.43 2.46 2.49 2.62	[399.7] 1.5273 1.5373 1.5424 1.5424 1.5426 1.5424 1.5701 1.5766 1.5830 1.5701 1.5766 1.5830 1.5793 1.6013 1.6023 1.6130 1.6130 1.61293 1.6228 1.6352 1.6458 1.6458 1.6509 1.6758	1207.3 1213.7 1220.1 1226.3 1238.6 1244.6 1250.6 1256.5 1262.3 1268.1 1279.6 1285.2 1290.8 1290.8 1290.4 1301.9 1307.5 1312.9 1318.4 1345.4	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.34 2.34 2.34 2.39 2.42 2.45 2.48 2.61	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5628 1.5695 1.5760 1.5824 1.5887 1.5948 1.6008 1.6125 1.6125 1.6125 1.6337 1.6453 1.6453 1.6504 1.6554 1.6753	1207.1 1213.6 1219.9 1226.2 1238.5 1244.5 1244.5 1250.4 1250.4 1256.3 1262.2 1268.0 1273.7 1279.4 1285.1 1290.7 1290.4 1301.8 1307.4 1312.8 1318.3 1345.3	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.35 2.38 2.41 2.44 2.47 2.60	[400.4] 1.5266 1.5338 1.5412 1.5424 1.5554 1.5622 1.5689 1.5754 1.5818 1.5942 1.6002 1.6001 1.6119 1.61232 1.6237 1.6237 1.6341 1.6395 1.6447 1.6499 1.6748	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6 1290.7 1200.0 1290.7 1200.0 1290.7 1200.0 1290.7 1290.0 1290.7 1290.0 1290.7 1290.0 1290.7 1290.0 1290.2 1390.7 1390.2 1200.2 1200.2 1200.2 1200.2 1200.2 1200.2 12
410 420 440 460 470 480 490 510 520 530 540 550 550 550 580 590 600 650 700	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.36 2.38 2.41 2.44 2.47 2.50 2.63 2.77	[399.3] 1.5276 1.5357 1.5430 1.5502 1.5572 1.5640 1.5777 1.5836 1.5898 1.5959 1.6019 1.6078 1.6135 1.6192 1.6248 1.6303 1.6357 1.6440 1.6453 1.6453 1.6514 1.6763 1.6997	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1250.7 1256.6 1262.5 1268.2 1274.0 1279.7 1285.3 1290.9 1296.5 1302.0 1307.5 1313.0 1318.5 1345.4 1372.0	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.35 2.37 2.40 2.43 2.46 2.43 2.46 2.49 2.62 2.76	[399-7] 1.5273 1.5351 1.5424 1.5424 1.5566 1.5664 1.5701 1.5766 1.5830 1.5766 1.5830 1.5793 1.6073 1.6073 1.6130 1.6187 1.6243 1.6243 1.6458 1.6458 1.6458 1.6509 1.6758 1.6992	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6 1250.6 1256.5 1262.3 1268.1 1273.9 1279.6 1285.2 1290.8 1290.8 1290.4 1301.9 1307.5 1312.9 1318.4 1345.4 1345.4	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.34 2.36 2.39 2.42 2.45 2.42 2.45 2.48 2.61 2.75	[400.0] 1.5269 1.5344 1.5418 1.5495 1.5560 1.5628 1.5695 1.5760 1.5824 1.5887 1.5948 1.6008 1.6182 1.6182 1.6238 1.6347 1.6400 1.6453 1.6405 1.6405 1.6405 1.6405 1.6405 1.6405 1.6594 1.6594 1.6594 1.6594 1.6594 1.6594 1.6594 1.6594 1.6594 1.6594 1.6595 1.6595 1.6595 1.6595 1.6595 1.6595 1.6595 1.6595 1.6595 1.6595 1.5760 1.6775 1.6775 1.6775 1.6775 1.6775 1.6775 1.6775 1.6775 1.6775 1.6775 1.6775 1.6775 1.6775 1.6755 1.5755 1.5755 1.5755 1.5755 1.5755 1.5755 1.5755 1.5755 1.675555 1.675555 1.675555 1.6755555 1.6755555 1.675555 1.675555555555 1.67555555555555555555555555555555555555	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1250.4 1250.4 1250.3 1262.2 1268.0 1273.7 1279.4 1285.1 1290.7 1290.7 1290.3 1301.8 1307.4 1312.8 1318.3 1345.3 1345.3 1371.9	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.35 2.38 2.41 2.44 2.44 2.47 2.60 2.73	[400.4] 1.5266 1.5338 1.5412 1.5412 1.5554 1.5554 1.5754 1.5818 1.5754 1.5888 1.5754 1.5942 1.6002 1.6019 1.6176 1.6232 1.6287 1.6395 1.6345 1.6395 1.6447 1.6499 1.6748 1.6982	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6 1296.2 1301.7 1307.3 1312.8 1318.2 1318.2 1345.2 1371.8
410 420 430 440 450 480 490 500 510 520 530 530 540 550 560 570 580 590 600 650 590	1.92 1.95 1.99 2.02 2.05 2.08 2.11 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.36 2.38 2.41 2.44 2.47 2.50 2.63 2.77 2.90	[399.3] 1.5276 1.5357 1.5430 1.5572 1.5572 1.5640 1.5777 1.5777 1.5836 1.5898 1.5959 1.6019 1.6078 1.6135 1.6135 1.6410 1.6433 1.6433 1.64514 1.64514 1.67514 1.67514 1.6997 1.7219	1207.5 1213.9 1220.2 1226.5 1232.7 1238.8 1244.8 1250.7 1256.6 1262.5 1268.2 1274.0 1279.7 1285.3 1290.9 1296.5 1302.0 1307.5 1307.5 1313.5 1345.4 1372.0 1398.3	1.91 1.94 1.98 2.01 2.04 2.07 2.10 2.14 2.17 2.20 2.23 2.26 2.29 2.32 2.35 2.37 2.40 2.43 2.46 2.49 2.62 2.76 2.89	[399.7] 1.5273 1.5373 1.5424 1.5426 1.5566 1.5566 1.5701 1.5701 1.5706 1.5701 1.5766 1.5701 1.5766 1.5701 1.5766 1.5701 1.5706 1.5701 1.5706 1.5701 1.5706 1.5701 1.5706 1.5701 1.5705 1.5701 1.5705 1.5053 1.6072 1.6130 1.6458 1.6458 1.645	1207.3 1213.7 1220.1 1226.3 1232.5 1238.6 1244.6 1250.6 1256.5 1262.3 1268.1 1273.9 1279.6 1285.2 1290.8 1296.4 1307.5 1312.9 1318.4 1345.4 1345.4 1371.9 1398.2	1.90 1.94 1.97 2.00 2.03 2.06 2.10 2.13 2.16 2.19 2.22 2.25 2.28 2.31 2.34 2.36 2.39 2.42 2.42 2.42 2.45 2.48 2.61 2.75 2.88	[400.0] 1.5269 1.5344 1.5418 1.5490 1.5560 1.5605 1.5760 1.5824 1.5887 1.5948 1.6008 1.6067 1.6182 1.6238 1.6293 1.6420 1.6420 1.6423 1.6504 1.6504 1.6504 1.6987 1.7210	1207.1 1213.6 1219.9 1226.2 1232.4 1238.5 1244.5 1250.4 1250.4 1250.3 1262.2 1268.0 1273.7 1290.4 1285.1 1290.7 1296.3 1307.4 1312.8 1307.4 1312.8 1318.3 1345.3 1345.3 1371.9 1398.2	1.89 1.93 1.96 1.99 2.02 2.06 2.09 2.12 2.15 2.18 2.21 2.24 2.27 2.30 2.33 2.35 2.38 2.41 2.44 2.47 2.64 2.73 2.86	[400.4] 1.5266 1.5338 1.542 1.5484 1.5554 1.5622 1.5622 1.5622 1.5754 1.5818 1.5881 1.5942 1.6002 1.6001 1.6176 1.6232 1.6287 1.6395 1.6447 1.6499 1.6748 1.6982 1.7205	1206.9 1213.4 1219.7 1226.0 1232.2 1238.3 1244.3 1250.3 1256.2 1262.1 1267.9 1273.6 1279.3 1285.0 1290.6 1296.2 1301.7 1307.3 1312.8 1318.2 1318.2 1318.2 1318.2

-		950		1	055			000			005	
Pres- sure		250 [401.1]			255 [402.9]			260 [404.5]			265 [406.2]	
° F.	v	S	i	v	S	i	v	8	i	v	S	i
Sat.	1.846	1.5258	1200.6	1.811	1.5241	1200.8	1.777	1.5223	1201.0	1.745	1.5206	1201.1
410	1.877	1.5326	1206.5	1.835	1.5295	1205.6	1.795	1.5,264	1204.6	1.757	1.5234	1203.6
420	1.910	1.5400	1213.0	1.868	1.5369	1212.1	1.828	1.5339	1211.2	1.789	1.5309	1210.2
430	1.942	1.5472	1219.4	1.900	1.5442	1218.5	1.860	1.5413	1217.6	1.820	1.5383	1216.7
440	1.974	1.5542	1225.7	1.932	1.5513	1224.8	1.891	1.5484	1224.0	1.851	1.5455	1223.1
450	2.006	1.5611	1231.9	1.963	1.5582	1231.1	1.922	1.5553	1230.3	1.882	1.5525	1229.5
460	2.038	1.5678	1238.0	1.994	1.5649	1237.2	1.952	1.5621	1236.5	1.912	1.5593	1235.7
470	2.069	1.5743	1244.0	2.025	1.5715	1243.3	1.982	1.5687	1242.6	1.942	1.5659	1241.8
480	2.099	1.5807 1.5870	1250.0 1255.9	2.055	1.5779 1.5842	1249.3 1255.3	2.012	1.5752 1.5815	1248.6 1254.6	1.971 2.000	1.5724	1247.9
490	2.129	1.5070	1233.9	2.005	1.3042	1233.3	2.042	1.5015	1254.0	2.000	1.5788	1253.9
500	2.159	1.5931	1261.8	2.114	1.5904	1261.2	2.071	1.5877	1260.5	2.029	1.5850	1259.9
510	2.189	1.5991	1267.6	2.143	1.5964	1267.0	2.099	1.5938	1266.4	2.057	1.5911	1256.8
520	2.218	1.6050	1273.4	2.172	1.6024	1272.8	2.128	1.5998	1272.2	2.085	1.5971	1271.6
530	2.247	1.6108	1279.1	2.201	1.6082	1278.5	2.156	1.6056		2.113	1.6030	1277.4
540	2.276	1.6166	1284.8	2.229	1.6139	1284.2	2.184	1.6113	1283.7	2.140	1.6088	1283.1
550	2.305	1.6222	1290.4	2.257	1.6196	1289.9	2.212	1.6170	1289.4	2.168	1.6145	1288.8
560	2.333	1.6277	1296.0	2.285	1.6251	1295.5	2.239	1.6225	1295.0	2.195	1.6200	1294.5
570	2.361	1.6331	1301.6	2.313	1.6305	1301.1	2.266	1.6280	1300.6	2.221	1.6255	1300.1
580	2.389	1.6384	1307.1	2.340	1.6359	1306.6	2.293	1.6334	1306.2	2.248	1.6309	1305.7
590	2.417	1.6437	1312.6	2.368	1.6412	1312.1	2.320	1.6387	1311.7	2.274	1.6362	1311.2
600	2.444	1.6489	1318.1	2.395	1.6464	1317.6	2.347	1.6439	1317.2	2.301	1.6415	1316.7
650	2.579	1.6738	1345.1	2.527	1.6714	1344.7	2.477	1.6690	1344.4	2.429	1.6666	1344.0
700	2.711	1.6973	1371.7	2.657	1.6949	1371.4	2.605		1371.1	2.555	1.6902	1370.8
750	2.840	1.7195	1398.0	2.784	1.7172	1397.8	2.730	1.7149	1397.6	2.678	1.7126	1397.3
800	2.968	1.7408	1424.3	2.909	1.7385	I424.I	2.853	1.7362	1423.8	2.798	1.7339	1423.6
850	3.094	1.7612	1450.4	3.033			2.974	1.7566		2.917	1.7544	1449.9
850	3.094	1.7612 270	1450.4	3.033						2.917	1.7544 285	1449.9
850	3.094		1450.4	3.033	1.7589			1.7566		2.917	1	1449.9
850 Sat.	3.094	270	1450.4	3.033	1.7589 275			1.7566 280	1450.1	2.917	285 [412.8]	1449.9
		270 [407.9]			1.7589 275 [409.6]	1450.3	2.974	1.7566 280 [411.2]	1450.1		285 [412.8]	
Sat.	1.713 1.751 1.782	270 [407.9] 1.5189	1201.2	1.683 1.715 1.746	1.7589 275 [409.6] 1.5172	1450.3	2.974	1.7566 280 [411.2] 1.5156	1450.1	1.625	285 [412.8] 1.5139	1201.6
Sat. 420	1.713 1.751	270 [407.9] 1.5189 1.5281	1201.2	1.683 1.715	1.7589 275 [409.6] 1.5172 1.5252	1450.3 1201.4 1208.4	2.974 1.654 1.680	1.7566 280 [411.2] 1.5156 1.5223	1450.1 1201.5 1207.4	1.625	285 [412.8] 1.5139 1.5195	1201.6 1206.5
Sat. 420 430	1.713 1.751 1.782	270 [407.9] 1.5189 1.5281 1.5355	1201.2 1209.3 1215.8	1.683 1.715 1.746	1.7589 275 [409.6] 1.5172 1.5252 1.5326	1450.3 1201.4 1208.4 1215.0	2.974 1.654 1.680 1.711	1.7566 280 [411.2] 1.5156 1.5223 1.5298	1450.1 1201.5 1207.4 1214.1	1.625 1.647 1.677	285 [412.8] 1.5139 1.5195 1.5270	1201.6 1206.5 1213.2
Sat. 420 430 440	1.713 1.751 1.782 1.813	270 [407.9] 1.5189 1.5281 1.5355 1.5427	1201.2 1209.3 1215.8 1222.3	1.683 1.715 1.746 1.776 1.806 1.835	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5538	1450.3 1201.4 1208.4 1215.0 1221.4	2.974 1.654 1.680 1.711 1.741	1.7566 280 [411.2] 1.5156 1.5223 1.5298 1.5371	1450.1 1201.5 1207.4 1214.1 1220.6	1.625 1.647 1.677 1.707	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6
Sat. 420 430 440 450 460 470	1.713 1.751 1.782 1.813 1.843 1.873 1.902	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5427 1.5565 1.5632	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1	1.683 1.715 1.746 1.776 1.806 1.835 1.864	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5538 1.5605	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828	1.7566 280 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5442 1.5511 1.5579	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6	1.625 1.647 1.677 1.707 1.736 1.764 1.792	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415 1.5485 1.5553	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8
Sat. 420 430 440 450 460 470 480	1.713 1.751 1.782 1.813 1.843 1.873 1.902 1.931	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5427 1.5565 1.5632 1.5632 1.5698	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2	1.683 1.715 1.746 1.776 1.806 1.835 1.864 1.893	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5538 1.5605 1.5671	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1246.5	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.856	1.7566 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5442 1.5579 1.5579 1.5645	1450.1 1201.5 1207.4 1214.1 1220.6 1223.0 1239.6 1239.6 1245.8	I.625 I.647 I.677 I.707 I.736 I.764 I.792 I.820	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415 1.5485 1.5485 1.5553 1.5619	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0
Sat. 420 430 440 450 460 470	1.713 1.751 1.782 1.813 1.843 1.873 1.902	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5427 1.5565 1.5632	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1	1.683 1.715 1.746 1.776 1.806 1.835 1.864	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5538 1.5605	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828	1.7566 280 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5442 1.5511 1.5579	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6	1.625 1.647 1.677 1.707 1.736 1.764 1.792	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415 1.5485 1.5485 1.5553 1.5619	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8
Sat. 420 430 440 450 460 470 480	1.713 1.751 1.782 1.813 1.843 1.873 1.902 1.931	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5427 1.5565 1.5632 1.5632 1.5698	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1259.2	1.683 1.715 1.746 1.776 1.806 1.835 1.864 1.893	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5538 1.5605 1.5671	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1246.5	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.856	1.7566 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5442 1.5579 1.5579 1.5645	1450.1 1201.5 1207.4 1214.1 1220.6 1223.0 1239.6 1239.6 1245.8	I.625 I.647 I.677 I.707 I.736 I.764 I.792 I.820	285 [412.8] 1.5195 1.5270 1.5344 1.5415 1.5485 1.5553 1.5619 1.5684	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0
Sat. 420 430 440 450 460 470 480 490 500 510	1.713 1.751 1.782 1.813 1.843 1.873 1.902 1.931 1.960	$\begin{array}{c} \textbf{270} \\ \textbf{[407.9]} \\ \textbf{1.5189} \\ \textbf{1.5281} \\ \textbf{1.5355} \\ \textbf{1.5427} \\ \textbf{1.5427} \\ \textbf{1.5427} \\ \textbf{1.5497} \\ \textbf{1.5565} \\ \textbf{1.5632} \\ \textbf{1.5698} \\ \textbf{1.5762} \end{array}$	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1253.2 1259.2 1265.1	I.683 I.715 I.746 I.776 I.806 I.835 I.864 I.893 I.921 I.949 I.977	1.7589 [409.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5538 1.5605 1.5671 1.5735 1.5798 1.5860	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1246.5 1252.6 1252.6 1258.6 1264.5	2.974 1.654 1.680 1.711 1.770 1.799 1.828 1.856 1.884 1.911 1.939	280 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5422 1.5511 1.5579 1.5645 1.5710 1.5773 1.5835	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6 1245.8 1251.9 1257.9 1263.9	1.625 1.647 1.677 1.707 1.736 1.764 1.792 1.820 1.848 1.875 1.902	285 [412.8] 1.5139 1.5270 1.5344 1.5415 1.5533 1.5553 1.5564 1.5564 1.5748 1.5748	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3
Sat. 420 430 440 450 460 470 480 490 500 510 520	1.713 1.751 1.782 1.813 1.843 1.902 1.931 1.960 1.988 2.016 2.044	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5497 1.5565 1.5632 1.5638 1.5762 1.5824 1.5824 1.5885	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1259.2 1265.1 1271.0	1.683 1.715 1.746 1.776 1.806 1.835 1.864 1.893 1.921 1.949 1.977 2.004	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5538 1.5605 1.5735 1.5778 1.5788 1.5860 1.5920	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1246.5 1252.6 1258.6 1258.6 1259.4	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.856 1.884 1.911 1.939 1.966	1.7566 280 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5442 1.5579 1.5645 1.5770 1.5773 1.5835 1.5835	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1229.6 1245.8 1251.9 1257.9 1263.9 1269.8	1.625 1.647 1.707 1.707 1.736 1.76 1.792 1.820 1.848 1.875 1.902 1.929	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415 1.5453 1.5619 1.5664 1.5748 1.5748 1.5810 1.5871	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2
Sat. 420 430 440 450 460 470 480 490 500 510 520 530	1.713 1.751 1.782 1.813 1.843 1.902 1.931 1.960 1.988 2.016 2.044 2.071	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5427 1.5497 1.5565 1.5632 1.5632 1.5502 1.5502 1.5502 1.5824 1.5824 1.5824 1.5946 1.6005	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1259.2 1259.2 1259.2 1271.0 1271.6	I.683 I.715 I.746 I.776 I.806 I.835 I.864 I.893 I.921 I.949 I.977 2.004 2.031	1.7589 275 [499.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5538 1.5605 1.5738 1.5798 1.5798 1.5920 1.5920	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1240.3 1252.6 1252.6 1258.6 1264.5 1270.4 1270.4	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.886 1.884 1.911 1.939 1.992	1.7566 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5422 1.5511 1.542 1.5710 1.5773 1.5835 1.5955	1450.1 1201.5 1207.4 1214.1 1220.6 1223.0 1233.3 1239.6 1245.8 1251.9 1263.9 1263.9 1269.8 1275.7	1.625 1.647 1.677 1.707 1.736 1.764 1.792 1.820 1.820 1.848 1.848 1.848 1.848 1.875 1.929 1.929 1.955	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415 1.5485 1.5533 1.5614 1.5684 1.5748 1.5748 1.5748 1.5810 1.5811	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2 1275.1
Sat. 420 430 440 450 460 470 480 490 500 510 520	1.713 1.751 1.782 1.813 1.843 1.902 1.931 1.960 1.988 2.016 2.044	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5497 1.5565 1.5632 1.5638 1.5762 1.5824 1.5824 1.5885	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1259.2 1265.1 1271.0	1.683 1.715 1.746 1.776 1.806 1.835 1.864 1.893 1.921 1.949 1.977 2.004	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5538 1.5605 1.5735 1.5778 1.5788 1.5860 1.5920	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1246.5 1252.6 1258.6 1258.6 1259.4	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.856 1.884 1.911 1.939 1.966	1.7566 280 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5442 1.5579 1.5645 1.5770 1.5773 1.5835 1.5835	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1229.6 1245.8 1251.9 1257.9 1263.9 1269.8	I.625 I.647 I.707 I.707 I.706 I.706 I.706 I.702 I.820 I.820 I.848 I.875 I.902 I.929	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415 1.5485 1.5533 1.5614 1.5684 1.5748 1.5748 1.5748 1.5810 1.5811	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2
Sat. 420 430 440 450 450 470 480 470 480 490 500 510 520 530 540 550	1.713 1.751 1.782 1.813 1.843 1.902 1.931 1.960 1.988 2.016 2.044 2.071 2.098 2.125	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5565 1.5565 1.5632 1.5568 1.5698 1.5762 1.5824 1.5885 1.5946 1.6005 1.6063 1.6120	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1253.2 1259.2 1265.1 1271.0 1276.8 1282.6 1288.3	I.683 I.715 I.746 I.776 I.806 I.835 I.864 I.893 I.921 I.949 I.977 2.004 2.031 2.058 2.084	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5469 1.5671 1.5735 1.5798 1.5860 1.5920 1.5980 1.5980 1.6038 1.6095	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1246.5 1252.6 1258.6 1264.5 1270.4 1276.2 1282.0 1287.8	2.974 1.654 1.680 1.711 1.770 1.799 1.856 1.884 1.911 1.939 1.966 1.992 2.019 2.045	1.7566 280 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5442 1.5579 1.5645 1.5770 1.5773 1.5835 1.5895 1.5955 1.6013 1.6071	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1239.6 1245.8 1225.9 1263.9 1269.8 1275.7 1281.5 1287.2	I.625 I.647 I.707 I.707 I.736 I.764 I.792 I.820 I.820 I.848 I.875 I.902 I.929 I.955 I.981 2.007	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415 1.5553 1.5619 1.5684 1.5748 1.5748 1.5810 1.5871 1.5931 1.5989 1.6047	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2 1275.1 1280.9 1286.7
Sat. 420 430 440 450 460 470 470 480 490 500 510 520 530 540 550 560	1.713 1.751 1.782 1.813 1.843 1.902 1.931 1.960 1.988 2.016 2.044 2.071 2.098 2.125 2.152	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.55632 1.5698 1.5698 1.5762 1.5885 1.5946 1.5946 1.6005 1.6063 1.6120 1.6176	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1259.2 1259.2 1259.2 1271.0 1276.8 1282.6 1288.3 1294.0	1.683 1.715 1.746 1.776 1.806 1.835 1.864 1.893 1.921 1.949 1.977 2.004 2.031 2.058 2.084 2.110	1.7589 275 [499.6] 1.5172 1.5252 1.5326 1.5399 1.5469 1.5538 1.5605 1.5735 1.5735 1.5798 1.5860 1.5980 1.5980 1.5980 1.6038 1.6095 1.6151	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1246.5 1252.6 1252.6 1252.6 1264.5 1270.4 1270.2 1282.0 1287.8 1293.5	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.856 1.884 1.911 1.939 2.019 2.045 2.070	1.7566 280 [411.2] 1.5156 1.5223 1.5298 1.5298 1.5371 1.5442 1.5579 1.5645 1.5770 1.5775 1.5895 1.5895 1.5895 1.5955 1.6013 1.6071 1.6127	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6 1245.8 1251.9 1269.8 1275.7 1269.8 1275.7 1281.5 1287.2 1287.2 1292.9	I.625 I.647 I.707 I.706 I.706 I.702 I.820 I.820 I.848 I.875 I.902 I.929 I.925 I.929 I.955 I.981 2.007 2.032	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415 1.5485 1.5553 1.5619 1.5684 1.5748 1.5748 1.5871 1.5931 1.5939 1.6047 1.6103	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2 1275.1 1280.9 1286.7 1292.5
Sat. 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570	I.713 I.751 I.782 I.813 I.843 I.902 I.931 I.960 I.988 2.016 2.044 2.071 2.098 2.017 2.098 2.125 2.152 2.178	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5497 1.5565 1.5632 1.5698 1.5762 1.5824 1.5885 1.5946 1.6605 1.6605 1.6605 1.6120 1.6176	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1259.2 1259.2 1259.2 1259.2 1276.8 1282.6 1288.3 1284.0 1299.6	I.683 I.715 I.746 I.776 I.806 I.835 I.864 I.893 I.921 I.949 I.977 2.004 2.031 2.058 2.084 2.110 2.136	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5339 1.5469 1.5538 1.5605 1.5738 1.5798 1.5798 1.5798 1.5798 1.5920 1.5920 1.5920 1.6038 1.6095 1.6151 1.6206	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1240.3 1246.5 1252.6 1252.6 1258.6 1264.5 1270.4 1270.4 1270.4 1270.4 1277.8 1279.9 1279.9 1279.9 1279.9 1279.9 1279.9 1297.8 1297.8 1297.8 1297.8 1297.8 1297.8 1297.8 1297.8 1297.8 1297.8 1299.1	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.856 1.884 1.911 1.939 1.966 1.992 2.019 2.045 2.070 2.096	1.7566 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5422 1.5511 1.5422 1.5511 1.5773 1.5835 1.5955 1.5955 1.5955 1.6013 1.6071 1.6127 1.6182	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6 1245.8 1251.9 1269.8 1269.8 1275.7 1281.5 1287.2 1292.9 1298.6	1.625 1.647 1.707 1.706 1.764 1.792 1.820 1.848 1.875 1.902 1.929 1.925 1.925 1.925 1.925 1.925 1.925 1.925 1.935	285 [412.8] I.5139 I.5270 I.5344 I.5415 I.5485 I.5533 I.5619 I.5684 I.5748 I.5748 I.5810 I.5931 I.5939 I.6047 I.6103	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2 1275.1 1280.9 1286.7 1292.5 1292.5 1298.2
Sat. 420 430 440 450 460 470 480 490 500 510 520 530 540 550 550 550 570 580	1.713 1.751 1.782 1.813 1.843 1.902 1.931 1.960 1.988 2.016 2.044 2.071 2.098 2.125 2.152 2.178 2.204	270 [407.9] 1.5189 1.5355 1.5427 1.5565 1.5632 1.5698 1.5762 1.5824 1.5885 1.5946 1.6053 1.6120 1.6126 1.6231 1.6223	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1253.2 1259.2 1265.1 1276.8 1282.6 1288.3 1294.0 1299.6 1299.5 2	I.683 I.715 I.746 I.776 I.806 I.835 I.864 I.893 I.921 I.949 I.977 2.004 2.031 2.058 2.084 2.110 2.136	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5339 1.5469 1.5538 1.5605 1.5708 1.5708 1.5708 1.5708 1.5980 1.5980 1.5980 1.6035 1.6055 1.6151 1.6226 1.6226	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1246.5 1252.6 1252.6 1252.6 1252.6 1252.6 1252.6 1252.6 1270.4 1270.4 1270.4 1270.4 1282.0 1282.0 1287.8 1293.1 1304.7	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.856 1.884 1.911 1.939 1.962 2.019 2.019 2.045 2.070 2.096 2.122	1.7566 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5442 1.5511 1.5579 1.5645 1.5710 1.5773 1.5835 1.5955 1.6013 1.6071 1.6182 1.6237	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6 1245.8 1251.9 1263.9 1263.9 1265.8 1275.7 1281.5 1287.2 1289.2 1292.9 1298.6 1304.3	1.625 1.647 1.707 1.707 1.736 1.764 1.792 1.820 1.848 1.875 1.902 1.929 1.955 1.981 2.007 2.032 2.057 2.082	285 [412.8] 1.5139 1.5270 1.5344 1.5445 1.5553 1.5619 1.5684 1.5748 1.5870 1.5871 1.5989 1.603 1.6159 1.6214	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2 1275.1 1280.9 1286.7 1292.5 1298.2 1303.8
Sat. 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 570 580 590	1.713 1.751 1.782 1.813 1.843 1.902 1.931 1.960 1.988 2.016 2.044 2.071 2.098 2.125 2.152 2.178 2.204 2.230	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5563 1.5563 1.5563 1.5563 1.5563 1.5542 1.5824 1.5825 1.6663 1.6120 1.6176 1.6231 1.6285 1.6338	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1259.2 1259.2 1259.2 1259.2 1276.8 1282.6 1288.3 1284.0 1299.6	I.683 I.715 I.746 I.776 I.806 I.835 I.864 I.893 I.921 I.949 I.977 2.004 2.031 2.058 2.084 2.110 2.136	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5339 1.5469 1.5538 1.5605 1.5735 1.5735 1.5735 1.5798 1.5860 1.5980 1.5980 1.6038 1.6095 1.6151 1.6206 1.6261 1.6314	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1240.3 1246.5 1252.6 1252.6 1258.6 1264.5 1270.4 1270.4 1270.4 1270.4 1277.8 1279.9 1279.9 1279.9 1279.9 1279.9 1279.9 1297.8 1297.8 1297.8 1297.8 1297.8 1297.8 1297.8 1297.8 1297.8 1297.8 1299.1	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.856 1.884 1.911 1.939 1.966 1.992 2.019 2.045 2.070 2.096	1.7566 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5422 1.5511 1.5422 1.5511 1.5773 1.5835 1.5955 1.5955 1.5955 1.6013 1.6071 1.6127 1.6182	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6 1245.8 1251.9 1269.8 1269.8 1275.7 1281.5 1287.2 1292.9 1298.6	1.625 1.647 1.707 1.706 1.764 1.792 1.820 1.848 1.875 1.902 1.929 1.925 1.925 1.925 1.925 1.925 1.925 1.925 1.935	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415 1.5453 1.5553 1.5619 1.5684 1.5748 1.5931 1.5931 1.5939 1.6047 1.6103 1.6159 1.6214 1.6268	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2 1275.1 1280.9 1286.7 1292.5 1292.5 1298.2
Sat. 420 430 440 450 460 470 480 490 500 510 520 530 530 540 550 560 570 580 590 600	I.713 I.751 I.782 I.813 I.843 I.902 I.931 I.960 I.988 2.016 2.044 2.071 2.098 2.125 2.152 2.178 2.204 2.230 2.2256	$\begin{array}{c} \textbf{270} \\ \textbf{[407.9]} \\ \textbf{1.5189} \\ \textbf{1.5281} \\ \textbf{1.5355} \\ \textbf{1.5427} \\ \textbf{1.5427} \\ \textbf{1.5632} \\ \textbf{1.5632} \\ \textbf{1.5698} \\ \textbf{1.5762} \\ \textbf{1.5885} \\ \textbf{1.5946} \\ \textbf{1.5885} \\ \textbf{1.5946} \\ \textbf{1.6005} \\ \textbf{1.6005} \\ \textbf{1.6005} \\ \textbf{1.6120} \\ \textbf{1.6120} \\ \textbf{1.6128} \\ \textbf{1.6231} \\ \textbf{1.6231} \\ \textbf{1.6233} \\ \textbf{1.6338} \\ \textbf{1.6391} \end{array}$	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1253.2 1259.2 1259.2 1271.0 1276.8 1227.0 1276.8 1227.0 1276.8 1294.0 1299.6 1305.2 1310.8 1316.3	I.683 I.715 I.746 I.776 I.806 I.835 I.864 I.893 I.921 I.949 I.977 2.004 2.031 2.058 2.084 2.110 2.136 2.162 2.188 2.213	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5339 1.5469 1.5538 1.5605 1.5738 1.5798 1.5798 1.5798 1.5798 1.5820 1.5920 1.5920 1.5920 1.5920 1.6038 1.6095 1.6151 1.6206 1.6261 1.6314 1.6367	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1246.5 1252.6 1252.6 1252.6 1252.6 1252.6 1252.6 1252.6 1270.4 1270.4 1270.4 1270.4 1282.0 1282.0 1287.8 1293.1 1304.7	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.856 1.884 1.911 1.939 2.019 2.045 2.070 2.096 2.122 2.147 2.172	1.7566 [411.2] 1.5156 1.5223 1.5298 1.5298 1.5298 1.5298 1.5579 1.5645 1.5770 1.5773 1.5835 1.5955 1.5955 1.6013 1.6071 1.6127 1.6182 1.6237 1.6291 1.6344	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6 1245.8 1251.9 1263.9 1263.9 1265.8 1275.7 1281.5 1287.2 1289.2 1292.9 1298.6 1304.3	I.625 I.647 I.707 I.706 I.706 I.706 I.820 I.848 I.875 I.929 I.925 I.981 2.007 2.032 2.107	285 [412.8] 1.5139 1.5195 1.5270 1.5344 1.5415 1.5485 1.5553 1.5619 1.5684 1.5748 1.5931 1.5931 1.5989 1.6047 1.6103 1.6159 1.6214 1.6268 1.6321	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2 1275.1 1280.9 1286.7 1292.5 1298.2 1303.8 1309.4 1315.0
Sat. 420 430 440 450 460 470 480 490 500 510 520 530 540 550 550 550 550 550 570 580 570 580 570 580 570 560 570 580 570 580 570 560 570 570 560 570 570 570 570 570 570 570 570 570 57	1.713 1.751 1.782 1.813 1.843 1.902 1.931 1.960 1.988 2.016 2.044 2.071 2.098 2.125 2.152 2.178 2.204 2.230 2.256 2.382	$\begin{array}{c} \textbf{270} \\ \textbf{[407.9]} \\ \textbf{1.5189} \\ \textbf{1.5281} \\ \textbf{1.5355} \\ \textbf{1.5427} \\ \textbf{1.5427} \\ \textbf{1.5427} \\ \textbf{1.5565} \\ \textbf{1.5632} \\ \textbf{1.5698} \\ \textbf{1.5762} \\ \textbf{1.5885} \\ \textbf{1.5762} \\ \textbf{1.5885} \\ \textbf{1.5946} \\ \textbf{1.6005} \\ \textbf{1.6005} \\ \textbf{1.6005} \\ \textbf{1.6120} \\ \textbf{1.6231} \\ \textbf{1.6235} \\ \textbf{1.6238} \\ \textbf{1.6338} \\ \textbf{1.6391} \\ \textbf{1.6643} \end{array}$	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1259.2 1265.1 1271.0 1276.8 1282.6 1288.3 1294.0 1299.6 1305.2 1310.8 1316.3 1343.7	I.683 I.715 I.746 I.776 I.806 I.835 I.864 I.893 I.921 I.949 I.977 2.004 2.031 2.058 2.084 2.1136 2.162 2.188 2.213 2.338	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5339 1.5469 1.5538 1.5655 1.5671 1.5735 1.5798 1.5798 1.5798 1.5860 1.5980 1.5980 1.6095 1.6095 1.6206 1.6201 1.6314 1.6367 1.6620	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1240.3 1246.5 1252.6 1252.6 1252.6 1252.6 1252.6 1264.5 1270.4 1270.4 1270.4 1277.0 1282.0 1287.8 1299.1 1304.7 1310.3 1315.9 1343.3	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.828 1.884 1.911 1.939 2.019 2.045 2.070 2.096 2.122 2.147 2.172 2.295	1.7566 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5422 1.5579 1.5645 1.5710 1.5773 1.5835 1.5835 1.5855 1.5955 1.6013 1.6071 1.6127 1.6122 1.6237 1.61291 1.6344 1.6597	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6 1245.8 1245.8 1251.9 1269.8 1275.7 1281.5 1287.2 1292.6 1304.3 1309.9 1315.5 1342.9	1.625 1.647 1.707 1.707 1.736 1.764 1.792 1.820 1.848 1.875 1.902 1.929 1.955 1.985 1.985 1.985 1.985 1.985 1.985 1.985 2.007 2.032 2.057 2.082 2.107	285 [412.8] I.5139 I.5195 I.5270 I.5344 I.5415 I.5485 I.5533 I.5619 I.5684 I.5748 I.5871 I.5931 I.5931 I.5989 I.66173 I.6103 I.6159 I.6214 I.6268 I.6321 I.6575	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2 1275.1 1280.9 1286.7 1292.5 1298.2 1303.8 1309.4 1315.0 1342.6
Sat. 420 430 440 450 460 470 480 490 500 510 520 530 540 550 550 580 550 580 590 600 650 700	1.713 1.751 1.782 1.813 1.843 1.902 1.931 1.960 1.988 2.016 2.044 2.071 2.098 2.125 2.172 2.178 2.204 2.230 2.256 2.382 2.506	270 [407.9] 1.5189 1.5281 1.5355 1.5427 1.5565 1.5632 1.5698 1.5762 1.5824 1.5885 1.5946 1.6063 1.6063 1.6120 1.6120 1.61231 1.6231 1.6231 1.6231 1.6238 1.6338 1.6391 1.6643 1.6679	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1253.2 1259.2 1265.1 1271.0 1276.8 1282.6 1288.3 1299.6 1305.2 1310.8 1316.3 1343.7 1370.5	I.683 I.715 I.746 I.776 I.806 I.835 I.864 I.893 I.921 I.949 I.977 2.004 2.031 2.058 2.084 2.110 2.136 2.162 2.188 2.213 2.338 2.459	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5339 1.5469 1.5538 1.5605 1.5798 1.5798 1.5798 1.5798 1.5798 1.5920 1.6388 1.6095 1.6151 1.6226 1.6214 1.6367 1.6620 1.6857	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1240.3 1246.5 1252.6 1252.6 1258.6 1264.5 1270.4 1270.4 1270.4 1270.4 1270.4 1270.4 1270.4 1282.0 1282.0 1282.0 1282.0 1283.5 130.5 1315.9 1343.3 1370.2	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.856 1.884 1.911 1.939 1.966 1.992 2.019 2.045 2.079 2.045 2.079 2.045 2.096 2.122 2.147 2.172 2.295 2.414	1.7566 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5513 1.5579 1.5645 1.5710 1.5773 1.5835 1.5955 1.6013 1.6071 1.6182 1.6237 1.6291 1.6344 1.6597 1.6835	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6 1245.8 1257.9 1263.9 1263.9 1275.7 1281.5 1287.2 1292.9 1298.6 1304.3 1309.9 1315.5 1342.9 1369.9	I.625 I.647 I.707 I.707 I.706 I.706 I.792 I.820 I.820 I.929 I.925 I.981 2.007 2.032 2.057 2.082 2.107 2.132 2.253 2.371	285 [412.8] 1.5139 1.5139 1.5270 1.5344 1.5415 1.5553 1.5619 1.5684 1.5748 1.5871 1.5989 1.6047 1.6103 1.6268 1.62575 1.6213	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2 1275.1 1280.9 1286.7 1292.5 1298.2 1303.8 1309.4 1315.0 1342.6 1369.6
Sat. 420 430 440 450 460 470 480 490 500 510 520 530 540 550 550 550 550 550 570 580 570 580 570 580 570 560 570 580 570 580 570 560 570 570 560 570 570 570 570 570 570 570 570 570 57	1.713 1.751 1.782 1.813 1.843 1.902 1.931 1.960 1.988 2.016 2.044 2.071 2.098 2.125 2.152 2.178 2.204 2.230 2.256 2.382 2.506 2.627	270 [407.9] 1.5189 1.5355 1.5427 1.5565 1.5632 1.5698 1.5762 1.5824 1.5885 1.5946 1.6063 1.6063 1.6120 1.6126 1.6231 1.6235 1.6338 1.6338 1.6391 1.6643 1.6679	1201.2 1209.3 1215.8 1222.3 1228.6 1234.9 1241.1 1247.2 1253.2 1259.2 1265.1 1271.0 1276.8 1282.6 1288.3 1294.0 1299.6 1305.2 1310.8 1316.3 1343.7	I.683 I.715 I.746 I.776 I.806 I.835 I.864 I.893 I.921 I.949 I.977 2.004 2.031 2.058 2.084 2.1136 2.162 2.188 2.213 2.338	1.7589 275 [409.6] 1.5172 1.5252 1.5326 1.5339 1.5469 1.5538 1.5655 1.5671 1.5735 1.5798 1.5798 1.5798 1.5860 1.5980 1.5980 1.6095 1.6095 1.6206 1.6201 1.6314 1.6367 1.6620	1450.3 1201.4 1208.4 1215.0 1221.4 1227.8 1234.1 1240.3 1240.3 1246.5 1252.6 1268.6 1264.5 1270.4 1270.4 1270.4 1270.4 1277.8 1270.4 1277.8 1277.8 1277.8 1277.4 1277.8 1270.4 1277.8 1270.4 1277.8 1270.4 1270.4 1279.1 1270.3 1287.8 1299.1 1304.7 1310.3 1315.9 1343.3	2.974 1.654 1.680 1.711 1.741 1.770 1.799 1.828 1.828 1.884 1.911 1.939 2.019 2.045 2.070 2.096 2.122 2.147 2.172 2.295	1.7566 [411.2] 1.5156 1.5223 1.5298 1.5371 1.5422 1.5579 1.5645 1.5710 1.5773 1.5835 1.5835 1.5855 1.5955 1.6013 1.6071 1.6127 1.6122 1.6237 1.61291 1.6344 1.6597	1450.1 1201.5 1207.4 1214.1 1220.6 1227.0 1233.3 1239.6 1245.8 1245.8 1251.9 1269.8 1275.7 1281.5 1287.2 1292.6 1304.3 1309.9 1315.5 1342.9	1.625 1.647 1.707 1.707 1.736 1.764 1.792 1.820 1.848 1.875 1.902 1.929 1.955 1.985 1.985 1.985 1.985 1.985 1.985 1.985 2.007 2.032 2.057 2.082 2.107	285 [412.8] I.5139 I.5195 I.5270 I.5344 I.5415 I.5485 I.5533 I.5619 I.5684 I.5748 I.5871 I.5931 I.5931 I.5989 I.66103 I.6159 I.6214 I.6268 I.6321 I.6575	1201.6 1206.5 1213.2 1219.7 1226.2 1232.6 1238.8 1245.0 1251.2 1257.3 1263.3 1269.2 1275.1 1280.9 1286.7 1292.5 1298.2 1303.8 1309.4 1315.0 1342.6

2.8631.75221449.72.8101.75011449.62.7591.74801449.42.7101.74591449.22.9791.77191476.02.9241.76981475.92.8721.76771475.72.8211.76571475.6

850 900

Pres- sure		290 _[414.4]			295 [415.9]			300 [417.5]			310 [420.5]	
Temp ° F.	▼	S	i	v	s	i	v	S	i	v	s	i
Sat.	1.598	1.5123	1201.7	1.571	1.5108	1201.8	1.545	1.5092	1201.9	1.496	1.5062	1202.0
420	1.614	1.5167	1205.5	1.583	1.5139	1204.6	1.553	1.5112	1203.6			
430 440	1.644 1.673	1.5243 1.5317	1212.3	1.612 1.641	1.5216	1211.4 1218.0	1.582	1.5189	1210.4	1.523 1.551	1.5136	1208.6
450			Taar	- 6			- 6-9					
460	1.702 1.730	1.5389	1225.4 1231.8	1.670 1.698	1.5362	1224.5 1231.0	1.638 1.666	1.5336	1223.7	1.579 1.606	1.5285	1222.0 1228.6
470	1.758	1.5527	1238.1	1.725	1.5501	1237.3	1.693	1.5476	1236.6	1.633	1.5427	1235.0
480 490	1.786	1.5594	1244.3 1250.5	1.753 1.780	1.5568	1243.6 1249.8	1.720 1.747	1.5544	1242.9	1.659	1.5495	1241.4
500 510	1.840 1.866	1.5723 1.5785	1256.6	1.806 1.832	1.5698	1255.9 1262.0	1.773 1.799	1.5674 1.5737	1255.2 1261.3	1.711 1.736	1.5626	1253.9 1260.0
520	1.893	1.5846	1268.6	1.858	1.5823	1268.0	1.825	1.5799	1267.4	1.761	1.5752	1266.1
530	1.919	1.5906	1274.5	1.884	1.5883	1273.9	1.850	1.5859	1273.3	1.786	1.5813	1272.1
540	1.944	1.5965	1280.4	1.909	1.5942	1279.8	1.875	1.5919	1279.2	1.810	1.5873	1278.1
550	1.970	1.6023	1286.2	1.934	1.6000	1285.6	1.900	1.5977	1285.1	1.834	1.5932	1284.0
560 570	1.995 2.020	1.6080 1.6136	1291.9 1297.6	1.959 1.984	1.6057 1.6113	1291.4 1297.1	I.924 I.949	1.6034	1290.9 1296.6	1.858 1.882	1.5990 1.6046	1289.8
580	2.045	1.6191	1303.3	2.008	1.6168	1302.8	1.973	1.6146	1302.4	1.905	1.6102	1301.4
590	2.069	1.6245	1309.0	2.032	1.6222	1308.5	1.997	1.6200	1308.1	1.929	1.6157	1307.1
600	2.093	1.6298	1314.6	2.056	1.6276	1314.1	2.020	1.6254	1313.7	1.952	1.6211	1312.8
650	2.213	1.6553	1342.2	2.174	1.6532	1341.8	2.136	1.6510	1341.5	2.065	1.6469	1340.7
700 750	2.329	1.6792 1.7018	1369.3	2.288	1.6771	1369.0 1395.8	2.249	1.6750	1368.7 1395.6	2.174 2.281	1.6710	1368.1
800	2.553	1.7233	1422.6	2.509	1.7213	1422.4	2.359	1.7193	1395.0	2.386	1.7153	1395.0
850	2.663	1.7439	1449.0	2.617	1.7419	1448.9	2.573	1.7399	1448.7	2.489	1.7360	1448.3
900	2.772	1.7637	1475.4	2.724	1.7617	1475.3	2.678	1.7597	1475.1	2.591	1.7559	1474.8
			-+13.+		/	-+75.5	2.070		-+/3		-1555	- 17 1-
		320	-+13.+		330	-+/3.3	2.070	340			350	
Sat.	1.450		1202.2	1.407		1202.3	1.366	1	1202.4	1.327	1	1202.5
		320 [423.4] 1.5032	1202.2	1.407	330 [426.3] 1.5004	1202.3	1.366	340 [429.1] 1.4976	1202.4		350 [431.9] 1.4949	
Sat. 430 440	1.450 1.469 1.496	320 [423.4]			330 [426.3]	1		340 [429.1]			350 [431.9]	
430	1.469	320 [423.4] 1.5032 1.5084	1202.2 1206.8	I.407 I.417	330 [426.3] 1.5004 1.5033	I 202.3 I 204.9	I.366 I.368	340 [429.1] 1.4976 1.4983	1202.4 1203.0	1.327	350 [431.9] 1.4949 	1202.5
430 440 450 460	1.469 1.496 1.523 1.550	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5207	1202.2 1206.8 1213.6 1220.3 1227.0	I.407 I.417 I.444 I.471 I.497	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259	1202.3 1204.9 1211.8 1218.6 1225.3	1.366 1.368 1.395 1.421 1.447	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211	1202.4 1203.0 1210.0 1216.9 1223.7	I.327 I.348 I.374 I.399	350 [431.9] 1.4949 1.5013 1.5090 1.5165	1202.5 1208.2 1215.2 1222.0
430 440 450 460 470	1.469 1.496 1.523 1.550 1.576	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5307 1.5378	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5	I.407 I.417 I.444 I.471 I.497 I.522	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5330	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9	1.366 1.368 1.395 1.421 1.447 1.472	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283	1202.4 1203.0 1210.0 1216.9 1223.7 1230.4	I.327 I.348 I.374 I.399 I.424	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238	1202.5 1208.2 1215.2 1222.0 1228.8
430 440 450 460 470 480	1.469 1.496 1.523 1.550 1.576 1.602	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5235 1.5307 1.5378 1.5447	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9	I.407 I.417 I.444 I.471 I.497 I.522 I.547	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5330 1.5400	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4	I.366 I.368 I.395 I.421 I.447 I.472 I.497	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5354	1202.4 1203.0 1210.0 1216.9 1223.7 1230.4 1236.9	I.327 I.348 I.374 I.399 I.424 I.448	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5309	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4
430 440 450 460 470 480 490	1.469 1.496 1.523 1.550 1.576 1.602 1.627	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5307 1.5378 1.5447 1.5514	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9 1246.3	I.407 I.417 I.444 I.471 I.522 I.547 I.572	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5330 1.5400 1.5468	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521	340 [429.1] 1.4976 1.4976 1.5061 1.5137 1.5211 1.5283 1.5354 1.5422	1202.4 1203.0 1210.0 1216.9 1223.7 1230.4 1236.9 1243.4	I.327 I.348 I.374 I.399 I.424 I.448 I.472	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5309 1.5378	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0
430 440 450 460 470 480 490 500	1.469 1.496 1.523 1.550 1.576 1.602 1.627 1.652	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5378 1.5378 1.5378 1.5447 1.5514 1.5580	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9 1246.3 1252.6	I.407 I.417 I.444 I.497 I.522 I.547 I.572 I.597	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5330 1.5400 1.5468 1.5534	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521 I.521 I.545	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5354 1.5422 1.5489	1202.4 1203.0 1210.0 1223.7 1230.4 1236.9 1243.4 1249.8	I.327 I.348 I.374 I.399 I.424 I.448 I.472 I.496	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5238 1.5309 1.5378 1.5446	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4
430 440 450 460 470 480 490 500 510	1.469 1.496 1.523 1.550 1.576 1.602 1.627 1.652 1.677	320 [423.4] 1.5032 1.532 1.532 1.532 1.532 1.532 1.532 1.532 1.532 1.532 1.5514 1.5514 1.5580 1.5644	1202.2 1206.8 1213.6 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8	I.407 I.417 I.444 I.471 I.497 I.522 I.547 I.572 I.597 I.621	330 [426.3] 1.5004 1.5130 1.5110 1.5186 1.5259 1.5330 1.5468 1.5534 1.5534	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2 1257.4	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521 I.545 I.569	340 [429.1] 1.4976 1.5061 1.5137 1.5211 1.5283 1.5354 1.5422 1.5489 1.5555	1202.4 1203.0 1210.0 12130.4 1230.4 1236.9 1243.4 1249.8 12256.1	I.327 I.348 I.374 I.399 I.424 I.448 I.472 I.496 I.519	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5378 1.5378 1.5446 1.5512	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8
430 440 450 460 470 480 490 500 510 520	1.469 1.496 1.523 1.550 1.576 1.602 1.627 1.652	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5378 1.5378 1.5378 1.5447 1.5514 1.5580	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9 1246.3 1252.6	I.407 I.417 I.444 I.497 I.522 I.547 I.572 I.597	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5330 1.5400 1.5468 1.5534	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521 I.521 I.545	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5354 1.5422 1.5489	1202.4 1203.0 1210.0 1223.7 1230.4 1236.9 1243.4 1249.8	I.327 I.348 I.374 I.399 I.424 I.448 I.472 I.496	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5238 1.5309 1.5378 1.5446	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4
430 440 450 460 470 480 490 500 510	1.469 1.496 1.523 1.550 1.576 1.602 1.627 1.652 1.677 1.701	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5378 1.5378 1.5447 1.5514 1.5580 1.5644 1.5707	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1254.9	I.407 I.417 I.444 I.471 I.522 I.547 I.572 I.597 I.621 I.645	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5400 1.5468 1.5534 1.5534 1.5539 1.5662	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2 1257.4 1263.6	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521 I.545 I.569 I.592	340 [429.1] 1.4976 1.5061 1.5211 1.523 1.5354 1.5422 1.5489 1.5555 1.5619	1202.4 1203.0 1210.0 1223.7 1230.4 1230.4 1243.4 1249.8 1243.4 1256.1 1252.4	I.327 I.348 I.374 I.399 I.424 I.424 I.448 I.472 I.496 I.519 I.542	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5309 1.5378 1.5466 1.5512 1.5576	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8 1254.8 1261.1
430 440 460 470 480 490 500 510 520 530 540 550	1.469 1.496 1.523 1.550 1.576 1.602 1.627 1.652 1.677 1.701 1.725 1.749 1.773	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5378 1.5477 1.5477 1.5514 1.5580 1.5644 1.5707 1.5768 1.5829 1.5888	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1264.9 1271.0 1277.0 1282.9	I.407 I.417 I.444 I.471 I.522 I.547 I.572 I.597 I.621 I.645 I.669 I.692 I.715	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5400 1.5468 1.5534 1.5534 1.5599 1.5662 1.5724 1.5785 1.5845	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2 1257.4 1263.6 1269.7 1275.8 1281.8	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521 I.545 I.569 I.592 I.615 I.638 I.661	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5354 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5803	1202.4 1203.0 1210.0 1223.7 1230.4 1236.9 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1280.7	I.327 I.348 I.374 I.399 I.429 I.448 I.472 I.496 I.519 I.542 I.565 I.587 I.609	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5309 1.5378 1.5466 1.5512 1.5576 1.5639 1.5701 1.5762	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8 1261.1 1267.3 1273.5 1279.6
430 440 450 470 480 490 500 510 520 530 540 550 560	1.469 1.496 1.523 1.550 1.576 1.602 1.627 1.652 1.677 1.701 1.725 1.749 1.773 1.796	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5307 1.5347 1.5514 1.5544 1.5554 1.5707 1.5768 1.5708 1.5829 1.5888 1.5946	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1264.9 1271.0 1277.0 1282.9 1288.8	I.407 I.417 I.444 I.471 I.522 I.527 I.527 I.527 I.621 I.645 I.669 I.692 I.715 I.738	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5300 1.5460 1.5546 1.5534 1.5559 1.5662 1.5724 1.5785 1.5845 1.5993	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1231.9 1231.2 1257.4 1244.9 1251.2 1257.4 1263.6 1269.7 1275.8 1281.8 1281.7	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521 I.545 I.569 I.592 I.615 I.638 I.661 I.683	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5354 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5803 1.5803 1.5862	1202.4 1203.0 1210.0 1223.7 1230.4 1230.4 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1280.7 1286.6	I.327 I.348 I.374 I.399 I.424 I.448 I.472 I.496 I.519 I.542 I.542 I.565 I.587 I.609 I.631	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5309 1.5378 1.5576 1.5576 1.5576 1.5579 1.5701 1.5762 1.5821	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1235.4 1242.0 1248.4 1254.8 1254.8 1254.8 1257.3 1273.5 1279.6 1285.6
430 440 460 470 480 490 510 520 530 530 540 550 560 570	1.469 1.496 1.523 1.550 1.576 1.622 1.627 1.652 1.677 1.701 1.725 1.749 1.773 1.796 1.819	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5307 1.5378 1.5447 1.5514 1.5554 1.5580 1.5685 1.5707 1.5768 1.5707 1.5768 1.5829 1.58888 1.5946 1.6003	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9 1246.3 1252.6 1252.6 1252.6 1258.8 1264.9 1271.0 1277.0 1282.9 1288.8 1294.6	I.407 I.417 I.444 I.471 I.522 I.547 I.527 I.597 I.621 I.645 I.669 I.669 I.692 I.715 I.738 I.761	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5330 1.5468 1.5534 1.5562 1.5724 1.5785 1.5785 1.5845 1.5993 1.5991	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 124.9 1251.2 1257.4 1263.6 1269.7 1275.8 1281.8 1281.7 1293.6	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521 I.545 I.569 I.592 I.615 I.638 I.661 I.683 I.705	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5354 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5863 1.5862 1.5920	1202.4 1203.0 1210.0 1223.7 1230.4 1236.9 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1280.7 1286.6 1292.6	I.327 I.348 I.374 I.399 I.424 I.448 I.472 I.496 I.519 I.565 I.565 I.567 I.609 I.631 I.653	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5378 1.5378 1.55376 1.55376 1.55376 1.55376 1.55376 1.55376 1.55376	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8 1261.1 1267.3 1273.5 1279.6 1285.6 1291.5
430 440 450 470 480 490 500 510 520 530 540 550 560	1.469 1.496 1.523 1.550 1.576 1.602 1.627 1.652 1.677 1.701 1.725 1.749 1.773 1.796	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5307 1.5347 1.5514 1.5544 1.5554 1.5707 1.5768 1.5708 1.5829 1.5888 1.5946	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1264.9 1271.0 1277.0 1282.9 1288.8	I.407 I.417 I.444 I.471 I.522 I.527 I.527 I.527 I.621 I.645 I.669 I.692 I.715 I.738	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5300 1.5460 1.5546 1.5534 1.5559 1.5662 1.5724 1.5785 1.5845 1.5845 1.5993	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1231.9 1231.2 1257.4 1244.9 1251.2 1257.6 1269.7 1275.8 1281.8 1281.7	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521 I.545 I.569 I.592 I.615 I.638 I.661 I.683	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5354 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5803 1.5803 1.5862	1202.4 1203.0 1210.0 1223.7 1230.4 1230.4 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1280.7 1286.6	I.327 I.348 I.374 I.399 I.424 I.448 I.472 I.496 I.519 I.542 I.542 I.565 I.587 I.609 I.631	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5309 1.5378 1.5576 1.5576 1.5576 1.5579 1.5701 1.5762 1.5821	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8 1254.8 1261.1 1267.3 1273.5 1279.6 1285.6
430 440 460 470 480 490 510 520 530 540 550 560 570 580	1.469 1.496 1.523 1.550 1.576 1.627 1.627 1.652 1.677 1.701 1.725 1.749 1.773 1.796 1.819 1.842	320 [423.4] I.5032 I.5084 I.5160 I.5235 I.5307 I.5378 I.5447 I.5514 I.5580 I.5644 I.5707 I.5768 I.5829 I.5888 I.5946 I.5946 I.6003	1202.2 1206.8 1213.6 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1264.9 1271.0 1277.0 1282.9 1288.8 1294.6 1300.4	I.407 I.417 I.444 I.471 I.522 I.547 I.572 I.597 I.621 I.645 I.692 I.715 I.715 I.715 I.761 I.783	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5330 1.5400 1.5468 1.5534 1.5599 1.5662 1.5724 1.5785 1.5845 1.5903 1.5903 1.5901	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2 1257.4 1263.6 1269.7 1275.8 1281.8 1287.7 1293.6 1299.5	I.366 I.368 I.395 I.421 I.472 I.472 I.497 I.521 I.545 I.569 I.592 I.638 I.666 I.663 I.705 I.727	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5253 1.5422 1.5482 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5803 1.5803 1.5802 1.5927	1202.4 1203.0 1210.0 1223.7 1230.4 1236.9 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1286.7 1286.6 1289.5	I.327 I.348 I.374 I.424 I.424 I.448 I.472 I.496 I.519 I.542 I.565 I.587 I.609 I.613 I.674	350 [431.9] 1.4949 1.5013 1.5203 1.5218 1.5228 1.5276 1.5576 1.5576 1.5701 1.5701 1.5762 1.5879 1.5937	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8 1261.1 1267.3 1273.5 1279.6 1285.6 1295.5 1291.5 1297.4
430 440 460 470 480 490 510 520 530 540 550 560 570 580 590	1.469 1.496 1.523 1.550 1.576 1.627 1.627 1.652 1.677 1.701 1.725 1.749 1.773 1.796 1.819 1.842 1.865	320 [423.4] I.5032 I.5084 I.5160 I.5235 I.5378 I.5378 I.5378 I.5447 I.5514 I.5580 I.5644 I.5707 I.5768 I.5829 I.5888 I.5946 I.6039 I.6059 I.6114 I.6169 I.6428	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1264.9 1271.0 1277.0 1282.9 1288.8 1294.6 1300.4 1306.2	I.407 I.417 I.444 I.471 I.427 I.522 I.547 I.572 I.597 I.621 I.645 I.669 I.692 I.715 I.738 I.761 I.783 I.805	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5330 1.5400 1.5468 1.5534 1.5599 1.5662 1.5724 1.5785 1.5903 1.5903 1.6017 1.6073 1.6128 1.6388	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2 1257.4 1263.6 1269.7 1275.8 1281.8 1287.7 1299.5 1305.2 1399.5 1305.2	I.366 I.368 I.395 I.421 I.472 I.472 I.497 I.521 I.545 I.569 I.592 I.638 I.638 I.665 I.727 I.727 I.729 I.770 I.875	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5354 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5803 1.5803 1.5803 1.5920 1.5977 1.6033	1202.4 1203.0 1210.0 1223.7 1230.4 1236.9 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1286.6 1298.5 1304.3 1310.1 1338.5	I.327 I.348 I.374 I.496 I.424 I.448 I.472 I.496 I.519 I.542 I.565 I.587 I.609 I.633 I.674 I.653 I.674 I.696 I.717 I.819	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5238 1.5379 1.5378 1.5446 1.5512 1.5576 1.5576 1.5701 1.5762 1.5879 1.5937 1.5993 1.6048 1.6312	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8 1261.1 1267.3 1273.5 1279.6 1285.6 1291.5 1297.4 1303.3
430 440 450 460 470 480 490 510 520 530 540 550 540 550 550 570 580 570 580 570 580 570 580 570	1.469 1.496 1.523 1.550 1.576 1.627 1.627 1.627 1.627 1.725 1.749 1.773 1.796 1.773 1.796 1.819 1.842 1.865 1.887 1.997 2.104	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5378 1.547 1.5514 1.5580 1.5644 1.5707 1.5768 1.5829 1.5888 1.5946 1.603 1.6039 1.6114 1.6169 1.6428	1202.2 1206.8 1213.6 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1264.9 1271.0 1277.0 1282.9 1288.8 1294.6 1300.4 1306.2 1311.9 1340.0 1367.5	I.407 I.417 I.444 I.471 I.522 I.547 I.572 I.597 I.621 I.645 I.692 I.715 I.738 I.761 I.783 I.765 I.783 I.805 I.827 I.934 2.038	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5340 1.5468 1.5534 1.5562 1.5724 1.5785 1.5903 1.5903 1.5903 1.6017 1.6073 1.6128 1.6388	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2 1257.4 1263.6 1269.7 1275.8 1281.8 1287.7 1299.5 1305.2 1311.0 1339.3 1366.9	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521 I.545 I.569 I.592 I.615 I.638 I.661 I.638 I.705 I.727 I.749 I.770 I.875 I.976	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5213 1.522 1.5283 1.5354 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5803 1.5803 1.5927 1.6033 1.6088 1.6350 1.6594	1202.4 1203.0 1210.0 12130.4 1230.4 1236.9 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1298.5 1304.3 1310.1 1338.5 1366.2	I.327 I.348 I.374 I.399 I.424 I.448 I.472 I.496 I.519 I.542 I.565 I.587 I.609 I.631 I.653 I.674 I.696 I.717 I.819 I.918	350 [431.9] 1.4949 1.5013 1.5063 1.5165 1.5238 1.5378 1.5446 1.5512 1.5576 1.5639 1.5701 1.5762 1.5821 1.5827 1.5823 1.5937 1.5933 1.6048 1.6312 1.6558	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8 1261.1 1267.3 1273.5 1279.6 1289.5 1297.4 1303.3 1309.2 1337.8 1365.6
430 440 460 470 480 490 500 510 520 530 530 540 550 550 550 570 580 590 600 650	1.469 1.496 1.523 1.550 1.602 1.627 1.652 1.677 1.701 1.725 1.749 1.773 1.796 1.819 1.842 1.865 1.887 1.997 2.104 2.208	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5378 1.5477 1.5574 1.5580 1.5644 1.5707 1.5768 1.5829 1.5888 1.5946 1.6059 1.6114 1.6169 1.6428 1.6670 1.6898	1202.2 1206.8 1213.6 1220.3 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1264.9 1271.0 1277.0 1282.9 1288.8 1294.6 1300.4 1300.4 1300.2 1311.9 1340.0	I.407 I.417 I.444 I.471 I.522 I.547 I.527 I.597 I.621 I.645 I.669 I.692 I.715 I.738 I.761 I.783 I.805 I.827 I.934 2.038 2.140	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5400 1.5468 1.5534 1.5534 1.5599 1.5662 1.5724 1.5785 1.5845 1.5903 1.5961 1.6073 1.6128 1.6638 1.6632 1.6861	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2 1257.4 1263.6 1269.7 1275.8 1281.8 1287.7 1299.5 1305.2 1399.5 1305.2	I.366 I.368 I.395 I.421 I.447 I.477 I.521 I.545 I.569 I.592 I.615 I.638 I.661 I.683 I.705 I.749 I.770 I.779 I.779 I.976 2.075	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5213 1.5354 1.5354 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5803 1.5862 1.5920 1.5977 1.6033 1.6038 1.6350 1.6594 1.6824	1202.4 1203.0 1210.0 1210.0 1230.4 1230.4 1236.9 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1292.6 1298.5 1304.3 1304.3 1338.5 1365.2	I.327 I.348 I.374 I.374 I.429 I.429 I.429 I.448 I.472 I.496 I.519 I.542 I.565 I.587 I.653 I.653 I.674 I.696 I.717 I.819 I.918 2.014	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5309 1.5378 1.5466 1.5512 1.5576 1.5639 1.5701 1.5762 1.5879 1.5937 1.5993 1.6938 1.648 1.6528	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8 1261.1 1267.3 1273.5 1279.6 1285.6 1291.5 1297.4 1303.3 1309.2 1337.8 1365.6 1393.0
430 440 460 470 480 490 510 520 530 530 540 550 550 550 550 580 590 600 650 700 750 800	1.469 1.496 1.523 1.550 1.576 1.622 1.627 1.652 1.677 1.701 1.725 1.749 1.773 1.796 1.819 1.842 1.865 1.887 1.997 2.104 2.208 2.310	320 [423.4] 1.5032 1.5325 1.5307 1.5378 1.5347 1.5514 1.5544 1.5564 1.5707 1.5768 1.5768 1.5707 1.5768 1.5707 1.5768 1.5829 1.5888 1.5946 1.6003 1.6059 1.6114 1.6169 1.6428 1.6670 1.6898 1.7115	1202.2 1206.8 1213.6 1223.5 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1258.8 1254.9 1271.0 1277.0 1282.9 1277.0 1282.9 1277.0 1282.9 1294.6 1300.4 1306.2 1311.9 1340.0 1367.5 1394.5 1421.3	I.407 I.417 I.444 I.471 I.522 I.547 I.572 I.597 I.621 I.645 I.665 I.692 I.715 I.715 I.715 I.738 I.761 I.783 I.805 I.827 I.934 2.038 2.140 2.239	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5330 1.5400 1.5468 1.5534 1.5599 1.5662 1.5724 1.5785 1.5903 1.5903 1.6017 1.6073 1.6128 1.6388 1.6388 1.6632 1.6861 1.7078	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2 1257.4 1263.6 1269.7 1275.8 1287.7 1275.8 1287.7 1299.5 1305.2 1311.0 1339.3 1366.9 1394.0 1420.9	I.366 I.368 I.395 I.421 I.472 I.472 I.497 I.521 I.545 I.569 I.592 I.615 I.638 I.665 I.727 I.727 I.749 I.770 I.875 I.976 2.075 2.172	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5283 1.5354 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5803 1.5803 1.5803 1.5920 1.5977 1.6033 1.6088 1.6350 1.6594 1.6824 1.7042	1202.4 1203.0 1210.0 1223.7 1230.4 1236.9 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1286.6 1282.6 1292.6 1292.5 1304.3 1310.1 1338.5 1366.2 1393.5 1420.4	I.327 I.348 I.374 I.424 I.424 I.448 I.472 I.496 I.519 I.542 I.565 I.587 I.603 I.653 I.674 I.653 I.674 I.696 I.717 I.819 I.918 2.014 2.109	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5238 1.5238 1.5379 1.5378 1.5446 1.5512 1.5576 1.5576 1.5701 1.5701 1.5702 1.5879 1.5993 1.5993 1.6048 1.6312 1.6558 1.6789 1.7008	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8 1261.1 1267.3 1273.5 1273.5 1279.6 1285.6 1297.4 1303.3 1309.2 1337.8 1365.6 1393.0 1420.0
430 440 460 470 480 490 510 520 530 540 550 550 550 550 550 580 570 580 570 570 580 570 580 570 580 570 580 570 580 570 580 570 580 570 580 570 580 570 580 570 580 570 580 570 580 570 580 570 580 570 570 580 570 570 570 570 570 570 570 570 570 57	1.469 1.496 1.523 1.550 1.576 1.622 1.627 1.652 1.677 1.701 1.725 1.749 1.773 1.796 1.819 1.842 1.865 1.887 1.997 2.104 2.208 2.310 2.410	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5378 1.5378 1.547 1.5514 1.5580 1.5644 1.5707 1.5768 1.5829 1.5888 1.5946 1.6039 1.6114 1.6169 1.6428 1.6670 1.6488 1.6670 1.6488 1.6670 1.6488 1.7115	1202.2 1206.8 1213.6 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1264.9 1271.0 1277.0 1282.9 1288.8 1294.6 1300.4 1300.4 1306.2 1311.9 1340.0 1367.5 1394.5 1421.3 1447.9	I.407 I.417 I.444 I.471 I.522 I.547 I.572 I.597 I.621 I.645 I.692 I.715 I.738 I.769 I.778 I.778 I.783 I.783 I.805 I.827 I.934 2.038 2.140 2.239 2.336	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5400 1.5468 1.5534 1.5549 1.5662 1.5724 1.5785 1.5903 1.5903 1.5903 1.6017 1.6073 1.6128 1.6388 1.6388 1.6388 1.6388 1.6388 1.7078	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2 1257.4 1263.6 1269.7 1275.8 1281.8 1287.7 1299.5 1305.2 1311.0 1339.3 1366.9 1394.0 1420.9 1447.6	I.366 I.368 I.395 I.421 I.447 I.472 I.497 I.521 I.545 I.569 I.592 I.615 I.638 I.661 I.683 I.705 I.727 I.749 I.770 I.8755 I.976 2.075 2.172 2.267	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5354 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5803 1.5803 1.5803 1.5927 1.6033 1.6088 1.6350 1.6594 1.6824 1.7042 1.7251	1202.4 1203.0 1210.0 12130.4 1230.4 1236.9 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1298.5 1304.3 1310.1 1338.5 1366.2 1393.5 1420.4 1447.2	I.327 I.348 I.374 I.390 I.424 I.448 I.472 I.496 I.519 I.542 I.565 I.587 I.609 I.631 I.653 I.674 I.696 I.717 I.819 I.918 2.014 2.201	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5378 1.5378 1.5446 1.5512 1.5576 1.5576 1.5570 1.5762 1.5871 1.5879 1.5937 1.5993 1.6048 1.6312 1.6558 1.6789 1.7008 1.7217	1202.5 1208.2 1215.2 1228.8 1235.4 1242.0 1248.4 1254.8 1261.1 1267.3 1273.5 1279.6 1281.5 1297.4 1303.3 1309.2 1337.8 1365.6 1393.0 1420.0 1446.8
430 440 450 460 470 480 490 500 510 520 530 540 550 550 550 550 550 560 570 580 590 600 650 750 800	1.469 1.496 1.523 1.550 1.576 1.622 1.627 1.652 1.677 1.701 1.725 1.749 1.773 1.796 1.819 1.842 1.865 1.887 1.997 2.104 2.208 2.310	320 [423.4] 1.5032 1.5084 1.5160 1.5235 1.5378 1.5477 1.5514 1.5580 1.5644 1.5707 1.5768 1.5829 1.5888 1.5946 1.6059 1.6114 1.6169 1.6428 1.6670 1.6898 1.7115 1.7323 1.7522	1202.2 1206.8 1213.6 1223.5 1227.0 1233.5 1239.9 1246.3 1252.6 1258.8 1258.8 1254.9 1271.0 1277.0 1282.9 1277.0 1282.9 1277.0 1282.9 1294.6 1300.4 1306.2 1311.9 1340.0 1367.5 1394.5 1421.3	I.407 I.417 I.444 I.471 I.522 I.547 I.572 I.597 I.621 I.645 I.665 I.692 I.715 I.715 I.715 I.738 I.761 I.783 I.805 I.827 I.934 2.038 2.140 2.239	330 [426.3] 1.5004 1.5033 1.5110 1.5186 1.5259 1.5330 1.5400 1.5468 1.5534 1.5599 1.5662 1.5724 1.5785 1.5903 1.5903 1.6017 1.6073 1.6128 1.6388 1.6388 1.6632 1.6861 1.7078	1202.3 1204.9 1211.8 1218.6 1225.3 1231.9 1238.4 1244.9 1251.2 1257.4 1263.6 1269.7 1275.8 1287.7 1275.8 1287.7 1299.5 1305.2 1311.0 1339.3 1366.9 1394.0 1420.9	I.366 I.368 I.395 I.421 I.472 I.472 I.497 I.521 I.545 I.569 I.592 I.615 I.638 I.665 I.727 I.727 I.749 I.770 I.875 I.976 2.075 2.172	340 [429.1] 1.4976 1.4983 1.5061 1.5137 1.5211 1.5283 1.5283 1.5354 1.5422 1.5489 1.5555 1.5619 1.5681 1.5743 1.5803 1.5803 1.5803 1.5920 1.5977 1.6033 1.6088 1.6350 1.6594 1.6824 1.7042	1202.4 1203.0 1210.0 1223.7 1230.4 1236.9 1243.4 1249.8 1256.1 1262.4 1268.5 1274.6 1286.6 1282.6 1292.6 1298.5 1304.3 1310.1 1338.5 1366.2 1393.5 1420.4	I.327 I.348 I.374 I.424 I.424 I.448 I.472 I.496 I.519 I.542 I.565 I.587 I.603 I.653 I.674 I.653 I.674 I.696 I.717 I.819 I.918 2.014 2.109	350 [431.9] 1.4949 1.5013 1.5090 1.5165 1.5238 1.5238 1.5238 1.5379 1.5378 1.5446 1.5512 1.5576 1.5576 1.5701 1.5701 1.5702 1.5879 1.5993 1.5993 1.6048 1.6312 1.6558 1.6789 1.7008	1202.5 1208.2 1215.2 1222.0 1228.8 1235.4 1242.0 1248.4 1254.8 1261.1 1267.3 1273.5 1273.5 1279.6 1285.6 1297.4 1303.3 1309.2 1337.8 1365.6 1393.0 1420.0

Pres- sure		360 [434.6]			370 [437.2]			380 [439.8]			390 [441.0]	
Temp ° F.	۷	8	i	v	s	i	v	s	i	V	s	i
Sat.	1.291	1.4922	1202.5	1.256	1.4896	1202.6	1.223	1.4871	1202.6	1.192	1.4847	1202.6
440	1.305	1.4965	1206.4	1.263	1.4919	1204.6	1.224	1.4872	1202.7			
450	1.330	1.5043	1213.4	1.288	1.4997	1211.7	1.248	1.4952	1209.9	1.211	1.4908	1208.2
460	1.355	1.5119	1220.4	1.312	1.5074	1218.7	I.272	1.5030	1217.0	I.234	1.4986	1215.3
470	1.379	1.5193	1227.2	1.336	1.5149	1225.6	1.296	1.5105	1224.0	1.257	1.5062	1222.3
480	1.403	1.5265	1233.9	1.360	1.5221	1232.4	1.319	1.5178	1230.8	1.280	1.5136	1229.3
490	1.427	1.5335	1240.5	1.383	1.5292	1239.0	1.342	1.5249	1237.5	1.303	1.5208	1236.1
500	1.450	1.5403	1247.0	1.406	1.5361	1245.6	1.364	1.5319	1244.2	1.325	1.5278	1242.8
510	1.473	1.5469	1253.4	1.428	1.5428	1252.1	1.386	1.5387	1250.7	I.347	1.5347	1249.4
520	1.495	1.5534	1259.8	1.450	1.5494	1258.5	1.408	1.5453	1257.2	1.368	1.5414	1255.9
530	1.517	1.5598	1266.1	I.472	1.5558	1264.8	1.429	1.5518	1263.6	1.389	1.5479	1262.3
540	1.539	1.5660	1272.3	1.494	1.5621	1271.1	1.451	1.5581	1269.9	1.410	1.5544	1268.7
550	1.561	1.5721	1278.4	1.515	1.5682	1277.3	1.472	1.5643	1276.1	1.430	1.5605	1275.0
560	1.582	1.5781	1284.5	1.536	1.5742	1283.4	1.492	1.5704	1282.3	1.450	1.5667	1281.2
570	1.604	1.5840	1290.5	1.557	1.5801	1289.4	1.513	1.5764	1288.4	1.470	1.5727	1287.3
580	1.625	1.5898	1296.5	1.577	1.5859	1295.4	1.533	1.5822	1294.4	1.490	1.5786	1293.4
590	1.645	1.5954	1302.4	1.598	1.5917	1301.4	1.553	1.5880	1300.4	1.510	1.5843	1299.4
									. .	Ŭ		
600	1.666	1.6010	1308.2	1.618	1.5973	1307.3	1.572	1.5936	1306.4	1.529	1.5900	1305.4
650	1.766	1.6275	1337.0	1.716	1.6239	1336.2	1.669	1.6204	1335.4	1.623	1.6170	1334.6
700	1.863	1.6522	1365.0	1.811	1.6487	1364.3	1.761	1.6453	1363.7	1.713	1.6420	1363.0
750	1.957	1.6754	1392.4	1.903	1.6720	1391.9	1.851	1.6687	1391.4	1.802	1.6654	1390.8
800	2.049	1.6974	1419.5	1.992	1.6940	1419.1	1.939	1.6908	1418.6	1.888	1.6876	1418.2
850	2.139	1.7183	1446.5	2.080	1.7150	1446.1	2.024	1.7118	1445.7	1.972	1.7087	1445.3
900	2.228	1.7384	1473.3	2.167	1.7352	1472.9	2.109	1.7320	1472.6	2.054	1.7290	1472.3
950	2.316	1.7577	1500.1	2.252	1.7545	1499.8	2.193	1.7514	1499.5	2.136	1.7483	1499.2
1000	2.403	1.7764	1526.9	2.337	1.7732	1526.6	2.276	1.7701	1526.4	2.216	1.7671	1526.2

		400 [444.8]			420 [449.6]			440 [454-2]			460 [458.7]	
Sat.	1.162	1.4821	1202.5	1.107	I.4773	1202.4	1.056	1.4728	1202.3	1.010	1.4685	1202.1
460	1.198	1.4943	1213.6	1.131	1.4858	1210.2	1.069	1.4776	1206.7	1.013	1.4696	1203.1
470	1.221	1.5020	1220.7	1.153	1.4937	1217.4	1.091	1.4856	1214.1	1.034	1.4778	1210.7
480		1.5094	1227.7	1.175	1.5013	1224.5	1.112	1.4934	1221.3	1.055	1.4857	1218.1
490	1.265	1.5167	1234.6	1.196	1.5087	1231.5	1.133	1.5010	1228.5	1.075	1.4934	1225.4
500	1.287	1.5238	1241.3	1.217	1.5159	1238.4	1.154	1.5083	1235.5	1.095	1.5009	1232.5
510	1.309	1.5307	1248.0	1.238	1.5230	1245.2	1.174	1.5155	1242.4	1.115	1.5082	1239.6
520	00	1.5374	1254.6	1.258	1.5298	1251.9	1.193	1.5225	1249.2	1.134	1.5153	1246.5
530		1.5440	1261.1	1.278	1.5365	1258.5	1.213	1.5293	1255.9	1.153	1.5222	1253.3
540	1.371	1.5505	1267.5	1.298	1.5431	1265.0	1.232	1.5359	1262.5	1.172	1.5289	1260.0
550	1.391	1.5568	1273.8	1.318	1.5495	1271.4	1.251	1.5424	1269.1	1.190	1.5355	1 266.7
560	I.4II	1.5629	1280.0	1.337	1.5557	1277.8	1.270	1.5488	1275.5	1.209	1.5420	1273.2
570	1.430	1.5690	1286.2	1.356	1.5619	1284.1	1.288	1.5550	1281.9	I.227	1.5483	1279.7
580	1.450	1.5749	1292.4	1.375	1.5679	1290.3	1.307	1.5611	1288.2	1.244	1.5545	1286.1
590	1.469	1.5807	1298.5	1.393	1.5738	1296.4	1.325	1.5670	1294.4	1.262	1.5605	1292.4
600	1.488	1.5864	1304.5	1.412	1.5796	1302.5	1.342	1.5729	1300.6	1.279	1.5665	1 298.6
610	1.507	1.5921	1310.5	1.430	1.5852	1308.6	1.360	1.5786	1306.7	1.296	1.5723	1304.8
620	1.526	1.5976	1316.4	1.448	1.5908	1314.6	I.377	1.5843	1312.8	1.313	1.5780	1311.0
630		1.6030	1322.3	1.466	1.5963	1320.5	1.395	1.5899	1318.8	1.329	1.5836	1317.0
640	1.562	1.6083	1328.1	1.483	1.6017	1326.4	1.412	1.5954	1324.8	1.346	1.5891	1323.1
650	1.581	1.6136	1333.9	1.501	1.6070	1332.3	1.429	1.6007	1330.7	1.362	1.5945	1329.1
700	1.669	1.6387	1362.4	1.586	1.6324	1361.1	1.511	1.6263	1359.7	1.442	1.6204	1358.4
750	1.755	1.6622	1390.3	1.669	1.6561	1389.2	1.590	1.6502	1388.1	1.519	1.6445	1386.9
800		1.6845	1417.7	1.750	1.6785	1416.9	1.668	1.6727	1415.9	1.593	1.6672	1414.9
850	1.921	1.7057	1444.9	1.829	1.6998	1444.1	1.743	1.6941	1443.3	1.666	1.6887	1442.6
900	2.002	1.7259	1472.0	1.906	1.7201	1471.3	1.817	1.7146	1470.6	1.737	1.7092	1470.0

Pres-		480			500			550	- 1.64		600	
sure		[463.1]			[467.2]			[477.2]			[486.5]	
°F.	v	s .	i	v	S	i	v	5	i	v	8	i
Sat.	0.968	1.4643	1201.9	0.928	1.4601	1201.7	0.842	1.4505	1200.8	0.770	1.4414	1199.8
470	0.982 1.002	1.4700 1.4781	1207.3 1214.8	0.934	1.4625 1.4707	1203.8	0.848					
480 490	1.002	1.4860	1214.0	·954 ·973	1.4787	1211.5	.866	1.4529 1.4613	1203.1 1211.0	0.776	1.4444	1202.6
500	1.042	1.4936	1229.5	0.992	1.4865	1226.5	0.884	1.4694	1218.8	0.794	1.4530	1210.8
510	1.042	1.5010	1236.7	I.0II	1.4940	1233.8	.902	1.4773	1226.4	.811	1.4613	1210.0
520	1.080	1.5082	1243.7	1.030	1.5014	1240.9 1248.0	.920	1.4849	1233.8	.828	1.4693	1226.5
530 540	1.099 1.117	1.5152 1.5221	1250.7 1257.5	1.048 1.066	1.5086 1.5155	1248.0	·937 ·954	1.4923 1.4996	1241.2 1248.4	.844 .860	1.4770 1.4845	1234.2 1241.7
550	1.135	1.5288	1264.2	1.083	1.5223	1261.8	0.971	1.5067	1255.5	0.876	1.4918	1249.0
560	1.152	1.5354	1270.9	1.100	1.5290	1268.5	0.987	1.5136	1262.5	.892	1.4990	1249.0
570	1.170	1.5418	1277.4	1.117	1.5355	1275.1	1.003	1.5203	1269.4	.907	1.5060	1263.4
580	1.187	1.5480	1283.9	1.134	1.5418	1281.7	1.019	1.5269	1276.2	.922	1.5128	1270.4
590	1.204	1.5542	1290.3	1.151	1.5481	1288.2	1.034	1.5333	1282.9	•937	1.5194	1277.4
600	1.221	1.5602	1296.6	1.167	1.5542	1294.6	1.050	1.5396	1289.5	0.951	1.5259	1284.2
610 620	1.237 1.254	1.5661	1302.9 1309.1	1.183 1.199	1.5601 1.5659	1301.0 1307.3	1.065	1.5457 1.5518	1296.0 1302.5	.966 .980	1.5322 1.5384	1291.0 1297.6
630	1.270	1.5776	1315.3	1.215	1.5717	1313.5	1.094	1.5577	1308.9	.900	1.5445	1304.2
640	1.286	1.5831	1321.4	1.230	1.5773	1319.6	1.109	1.5635	1315.2	1.008	1.5505	1310.7
650	1.302	1.5886	1327.4	1.246	1.5828	1325.7	1.123	1.5691	1321.5	1.021	1.5563	1317.2
700	1.379	1.6147	1357.0	1.320	1.6092	1355.6	1.193	1.5961	1352.1	1.087	1.5839	1348.5
750 800	1.453	1.6390 1.6618	1385.8	1.392 1.462	1.6337	1384.6	1.260	1.6211	1381.7	1.149 1.209	1.6094	1378.7
850	1.525 1.595	1.6834	1414.0	1.529	1.6784	1413.0	1.324 1.387	1.6665	1410.5	1.209	1.6555	1408.0
900	1.664	1.7041	1469.3	1.596	1.6991	1468.6	1.448	1.6875	1466.8	1.324	1.6767	1465.0
950	1.731	1.7239	1496.7	1.661	1.7190	1496.1	1.508	1.7075	1494.6	1.380	1.6969	1493.0
55		1.7239	1490.7	1.001	1.7190	1490.1	1.500	1.7075	1494.0		1.0909	1493.0
		650	149017	1.001	700			750	1494.0		800	
		650 [495.2]			700 [503.4]		0.610	750 [511.1]			800 [518.5]	
Sat.	0.708	650 [495.2] 1.4330	1198.7	0.656	700 [503.4] 1.4250	1197.4	0.610	750 [511.1] 1.4175	1195.9	0.570	800 [518.5] 1.4104	1194.4
Sat. 510	0.708	650 [495.2] 1.4330 1.4458	1198.7	0.656 0.667	700 [503.4] 1.4250 1.4309	1197.4 1203.0	0.610	750 [511.1] 1.4175	1195.9	0.570	800 [518.5] 1.4104	1194.4
Sat. 510 520	0.708 0.733 .750	650 [495.2] 1.4330 1.4458 1.4542	1198.7 1211.0 1219.1	0.656 0.667 .682	700 [503.4] 1.4250 1.4309 1.4396	1197.4 1203.0 1211.5	0.610	750 [511.1] 1.4175 1.4255	1195.9 1203.7	0.570	800 [518.5] 1.4104 1.4117	1194.4 1195.8
Sat. 510	0.708	650 [495.2] 1.4330 1.4458	1198.7	0.656 0.667	700 [503.4] 1.4250 1.4309	1197.4 1203.0	0.610	750 [511.1] 1.4175	1195.9	0.570	800 [518.5] 1.4104	1194.4
Sat. 510 520 530	0.708 0.733 .750 .766	650 [495.2] 1.4330 1.4458 1.4542 1.4622	1198.7 1211.0 1219.1 1227.0	0.656 0.667 .682 .697	700 [503.4] 1.4250 1.4309 1.4396 1.4480	1197.4 1203.0 1211.5 1219.7	0.610 0.623 .638	750 [511.1] 1.4175 1.4255 1.4342	1195.9 1203.7 1212.3	0.570 0.572 .586	800 [518.5] 1.4104 1.4117 1.4207	1194.4 1195.8 1204.6
Sat. 510 520 530 540 550 560	0.708 0.733 .750 .766 .781 0.796 .811	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0	0.656 0.667 .682 .697 .712 0.727 .741	700 [503.4] 1.4250 1.4396 1.4396 1.4480 1.4561 1.4640 1.4716	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5	0.610 0.623 .638 .653 0.667 .681	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4426 1.4508 1.4587	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9	0.570 0.572 .586 .600 0.614 .628	800 [518.5] 1.4104 1.4117 1.4207 1.4295 1.4295 1.4379 1.4461	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2
Sat. 510 520 530 540 550 560 560 570	0.708 0.733 .750 .766 .781 0.796 .811 .826	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3	0.656 0.667 .682 .697 .712 0.727 .741 .756	700 [503.4] 1.4250 1.4396 1.4396 1.4480 1.4561 1.4640 1.4716 1.4791	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1	0.610 0.623 .638 .653 0.667 .681 .695	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4508 1.4587 1.4664	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8	0.570 0.572 .586 .600 0.614 .628 .641	800 [518.5] 1.4104 1.4117 1.4207 1.4295 1.4295 1.4379 1.4461 1.4541	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3
Sat. 510 520 530 540 550 560	0.708 0.733 .750 .766 .781 0.796 .811	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0	0.656 0.667 .682 .697 .712 0.727 .741	700 [503.4] 1.4250 1.4396 1.4396 1.4480 1.4561 1.4640 1.4716	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5	0.610 0.623 .638 .653 0.667 .681	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4426 1.4508 1.4587	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9	0.570 0.572 .586 .600 0.614 .628	800 [518.5] 1.4104 1.4117 1.4207 1.4295 1.4295 1.4379 1.4461	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2
Sat. 510 520 530 540 550 540 550 550 570 580 590	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.4992 1.5061	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1264.6 1271.8	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783	700 [503.4] 1.4250 1.4309 1.4396 1.4480 1.4561 1.4640 1.4716 1.4791 1.4864 1.4934	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4508 1.4587 1.4664 1.4739 1.4812	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2	0.570 .586 .600 0.614 .628 .641 .654 .667	800 [518.5] 1.4104 1.4207 1.4295 1.4379 1.4461 1.4541 1.4618 1.4694	1194.4 1204.6 1213.3 1221.8 1230.2 1238.3 1246.4 1254.2
Sat. 510 520 530 540 550 560 570 580	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.4992 1.5061 1.5128	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1257.3 1264.6 1271.8 1278.8	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769	700 [503.4] 1.4250 1.4396 1.4480 1.4561 1.4640 1.4716 1.4791 1.4864 1.4934 1.5003	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721 0.734	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4508 1.4587 1.4664 1.4739 1.4812 1.4883	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2 1267.7	0.570 .586 .600 0.614 .628 .641 .654 .667 0.679	800 [518.5] 1.4104 1.4207 1.4207 1.4205 1.4379 1.4461 1.4541 1.4541 1.4618 1.4694 1.4767	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3 1246.4 1254.2 1261.9
Sat. 510 520 530 540 550 560 570 580 590 600 610 620	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.4992 1.5061	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1264.6 1271.8	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822	700 [503.4] 1.4250 1.4309 1.4396 1.4480 1.4561 1.4640 1.4716 1.4791 1.4864 1.4934	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4508 1.4587 1.4664 1.4739 1.4812	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2 1267.7 1275.1 1282.3	0.570 .586 .600 0.614 .628 .641 .654 .667	800 [518.5] 1.4104 1.4207 1.4295 1.4379 1.4461 1.4541 1.4618 1.4694	1194.4 1204.6 1213.3 1221.8 1230.2 1238.3 1246.4 1254.2
Sat. 510 520 530 540 550 570 580 570 580 590 600 610 620 630	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .854 0.868 .882 .895 .908	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.5061 1.5128 1.5123 1.5225 1.5320	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1264.6 1271.8 1285.8 1285.8 1285.8 1292.6	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822 .835	700 [503:4] 1.4250 1.4309 1.4396 1.4480 1.4561 1.4640 1.4716 1.4791 1.4864 1.4934 1.5003 1.5071 1.5137 1.5201	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3 1280.5 1287.5	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721 0.734 .746 .759 .771	750 [511.1] 1.4175 1.4325 1.4342 1.4426 1.4508 1.4587 1.4664 1.4739 1.4812 1.4883 1.4953 1.5020 1.5026	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1250.2 1260.2 1260.2 1267.7 1275.1 1282.3 1289.5	0.570 .586 .600 0.614 .628 .641 .654 .667 0.679 .691 .703 .715	800 [518.5] 1.4104 1.4207 1.4295 1.4379 1.4461 1.4541 1.4618 1.4694 1.4767 1.4839 1.4908	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3 1246.4 1254.2 1261.9 1269.5 1277.1 1284.4
Sat. 510 520 530 540 550 560 570 580 590 600 610 620 630 640	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .882 .895	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.4902 1.5061 1.5128 1.5193 1.5257	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1254.6 1271.8 1264.6 1271.8 1278.8 1285.8 1292.6	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822	700 [593.4] 1.4250 1.4309 1.4386 1.4561 1.4561 1.4716 1.4791 1.4864 1.4793 1.4934 1.5003 1.5071 1.5137	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1258.6 1258.6 1258.6 1266.0 1273.3 1280.5 1287.5	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721 0.734 .746 .759	750 [511.1] 1.4175 1.4342 1.4342 1.4342 1.4508 1.4587 1.4568 1.4587 1.4664 1.4739 1.4812 1.4883 1.4953 1.5020	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2 1267.7 1275.1 1282.3	0.570 0.572 .586 .600 0.614 .628 .641 .654 .667 0.679 .691 .703	800 [518.5] 1.4104 1.4117 1.4207 1.4207 1.4295 1.4379 1.4541 1.4544 1.4618 1.4694 1.4767 1.4839 1.4908	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1230.2 1230.2 1246.4 1254.2 1261.9 1269.5 1277.1
Sat. 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .882 .895 .908 .921 0.934	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.4992 1.5061 1.5128 1.5128 1.5193 1.5257 1.5320 1.5381 1.5441	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1257.3 1264.6 1271.8 1278.8 1285.8 1292.6 1299.4 1306.1 1312.7	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822 .835 .847 0.860	700 [503.4] 1.4250 1.4309 1.4366 1.4480 1.4561 1.4640 1.4716 1.4791 1.4864 1.4791 1.4864 1.4934 1.5003 1.5071 1.5137 1.5201 1.5264 1.5325	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3 1280.5 1287.5 1284.5 1301.4 1308.2	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721 0.734 .746 .759 .771 .783 0.795	750 [511.1] 1.4175 1.4342 1.4426 1.4508 1.4508 1.4508 1.4564 1.4739 1.4664 1.4739 1.4812 1.4883 1.4953 1.5020 1.5086 1.5151 1.5214	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2 1267.7 1275.1 1282.3 1289.5 1296.5 1303.5	0.570 0.572 .586 .600 0.614 .628 .641 .628 .641 .654 .667 0.679 .691 .703 .715 .727 0.738	800 [518.5] 1.4104 1.4117 1.4207 1.4295 1.4379 1.4541 1.4541 1.4543 1.4694 1.4767 1.4839 1.4908 1.4976 1.5042 1.5107	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3 1246.4 1254.2 1261.9 1269.5 1277.1 1284.4 1291.6 1298.8
Sat. 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .854 0.868 .885 .908 .921 0.934 .947	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.5061 1.5128 1.5123 1.5257 1.5320 1.5381 1.5441 1.5449	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1264.6 1271.8 1271.8 1285.8 1292.6 1299.4 1306.1 1312.7 1319.2	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822 .835 .847 0.860 .872	700 [503:4] 1.4250 1.4309 1.4396 1.4480 1.4561 1.4640 1.4716 1.4791 1.4864 1.4934 1.5003 1.5071 1.5137 1.5201 1.5264 1.5325 1.5385	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3 1280.5 1287.5 1301.4 1308.2 1314.9	0.610 0.623 .638 .653 0.667 .681 .695 .721 0.734 .746 .759 .771 .783 0.795 .807	750 [511.1] 1.4175 1.4342 1.4426 1.4508 1.4587 1.4664 1.4739 1.4812 1.4883 1.4953 1.5020 1.5020 1.5086 1.5151 1.5214 1.5226	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1250.2 1260.2 1260.2 1267.7 1275.1 1282.3 1289.5 1296.5 1303.5 1310.4	0.570 .586 .600 0.614 .628 .641 .654 .667 0.679 .691 .703 .715 .727 0.738 .749	800 [518.5] 1.4104 1.4207 1.4295 1.4379 1.4461 1.4541 1.4618 1.4694 1.4694 1.4767 1.4839 1.4908 1.4976 1.5042 1.5107 1.5170	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3 1226.4 1254.2 1261.9 1269.5 1267.1 1284.4 1291.6 1298.8 1305.8
Sat. 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .882 .895 .908 .921 0.934 .947 .960	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.5061 1.5128 1.5128 1.5128 1.5128 1.5257 1.5320 1.5381 1.5441 1.54499	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1264.6 1271.8 1278.8 1285.8 1292.6 1299.4 1306.1 1312.7 1319.2 1325.7	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822 .835 .847 0.860 .872 .884	700 [503.4] 1.4250 1.4396 1.4396 1.4480 1.4561 1.4640 1.4716 1.4791 1.4864 1.4793 1.5071 1.5137 1.5204 1.5264 1.5325 1.5385 1.5444	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3 1280.5 1287.5 1287.5 1287.5 1301.4 1308.2 1314.9 1321.5	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721 0.734 .746 .759 .771 .783 0.795 .807 .818	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4508 1.4587 1.4664 1.4739 1.4812 1.4883 1.4953 1.5020 1.5020 1.5086 1.5151 1.5214 1.52214 1.5226	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2 1267.7 1275.1 1282.3 1289.5 1296.5 1303.5 1310.4 1317.2	0.570 0.572 .586 .600 0.614 .628 .641 .654 .667 0.679 .691 .705 .727 0.738 .749 .760	800 [518.5] 1.4104 1.4117 1.4207 1.4295 1.4379 1.4461 1.4541 1.4541 1.4618 1.4694 1.4767 1.4839 1.4906 1.5942 1.5107 1.5170 1.5232	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1230.2 1238.3 1246.4 1254.2 1261.9 1269.5 1277.1 1284.4 1291.6 1298.8 1305.8 1312.8
Sat. 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .854 0.868 .885 .908 .921 0.934 .947	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.5061 1.5128 1.5123 1.5257 1.5320 1.5381 1.5441 1.5449	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1264.6 1271.8 1271.8 1285.8 1292.6 1299.4 1306.1 1312.7 1319.2	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822 .835 .847 0.860 .872	700 [503:4] 1.4250 1.4309 1.4396 1.4480 1.4561 1.4640 1.4716 1.4791 1.4864 1.4934 1.5003 1.5071 1.5137 1.5201 1.5264 1.5325 1.5385	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3 1280.5 1287.5 1301.4 1308.2 1314.9	0.610 0.623 .638 .653 0.667 .681 .695 .721 0.734 .746 .759 .771 .783 0.795 .807	750 [511.1] 1.4175 1.4342 1.4426 1.4508 1.4587 1.4664 1.4739 1.4812 1.4883 1.4953 1.5020 1.5020 1.5086 1.5151 1.5214 1.5226	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1250.2 1260.2 1260.2 1267.7 1275.1 1282.3 1289.5 1296.5 1303.5 1310.4	0.570 .586 .600 0.614 .628 .641 .654 .667 0.679 .691 .703 .715 .727 0.738 .749	800 [518.5] 1.4104 1.4207 1.4295 1.4379 1.4461 1.4541 1.4618 1.4694 1.4694 1.4767 1.4839 1.4908 1.4976 1.5042 1.5107 1.5170	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3 1226.4 1254.2 1261.9 1269.5 1267.1 1284.4 1291.6 1298.8 1305.8
Sat. 510 520 530 540 550 570 580 570 600 610 620 630 640 650 660 670 680	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .882 .895 .908 .921 0.934 .947 .960 0.972	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.5061 1.5128 1.5128 1.5128 1.5128 1.5128 1.5128 1.5257 1.5320 1.5381 1.5441 1.5449 1.5557 1.5614 1.5669	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1264.6 1271.8 1285.8 1292.6 1299.4 1306.1 1312.7 1319.2 1325.7 1338.5	0.6556 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822 .835 .847 0.860 .872 .835 .847 0.866	700 [503.4] 1.4250 1.4396 1.4480 1.4561 1.4640 1.4716 1.4791 1.4864 1.4934 1.5003 1.5071 1.5137 1.5204 1.5325 1.5385 1.5344 1.5502	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3 1280.5 1287.5 1287.5 1294.5 1301.4 1308.2 1314.9 1321.5 1328.1 1334.6	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721 0.734 .746 .759 .771 .783 0.795 .807 .818 .830	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4508 1.4508 1.4587 1.4664 1.4739 1.4812 1.4883 1.4953 1.5026 1.5026 1.5151 1.5214 1.5214 1.5226 1.5336 1.5496	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2 1267.7 1275.1 1282.3 1289.5 1296.5 1303.5 1310.4 1317.2 1323.9 1330.6	0.570 0.572 .586 .600 0.614 .628 .641 .654 .667 0.679 .691 .703 .715 .727 0.738 .749 .760 .771 .782	800 [518.5] 1.4104 1.4117 1.4207 1.4295 1.4379 1.4461 1.4541 1.4541 1.4548 1.4694 1.4767 1.4839 1.4908 1.4908 1.4976 1.507 1.5107 1.5170 1.5232	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3 1246.4 1254.2 1261.9 1269.5 1277.1 1284.4 1291.6 1298.8 1305.8 1319.7 1326.5
Sat. 510 520 530 540 550 570 580 570 600 610 620 630 640 650 660 670 680 690 750 750	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .882 .895 .908 .921 0.934 .947 .960 .972 .984 0.997 1.056	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.5061 1.5128 1.5193 1.5257 1.5320 1.5381 1.5441 1.5441 1.5441 1.5659 1.5724 1.5724	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1264.6 1271.8 1278.8 1299.4 1306.1 1319.2 1319.2 1325.7 1338.5 1344.8 1375.6	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822 .835 .847 .835 .847 0.860 .872 .884 .896 .908 0.919 0.975	700 [503.4] 1.4250 1.4396 1.4480 1.4561 1.4480 1.4561 1.4716 1.4716 1.4716 1.4791 1.4864 1.4934 1.5003 1.5071 1.5137 1.5204 1.5325 1.5385 1.5444 1.5502 1.5559 1.5615 1.5880	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3 1280.5 1287.5 1284.5 1301.4 1308.2 1314.9 1321.5 1328.1 1334.6 1341.0 1372.4	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721 0.734 .746 .759 .771 .783 0.795 .807 .818 .830 .841 0.852 .905	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4508 1.4587 1.4664 1.4739 1.4812 1.4883 1.4953 1.5026 1.5026 1.5151 1.5214 1.5276 1.5336 1.5496 1.5454 1.5511 1.5781	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2 1267.7 1275.1 1289.5 130.4 1396.5 130.4 1317.2 1323.9 1330.6 1337.2 1369.2	0.570 0.572 .586 .600 0.614 .628 .641 .654 .667 0.679 .691 .703 .715 .727 0.738 .749 .749 .769 .771 .782 0.793 .844	800 [518.5] 1.4104 1.4117 1.4207 1.4295 1.4401 1.4541 1.4541 1.4541 1.4541 1.4543 1.4694 1.4767 1.4839 1.4908 1.4976 1.5042 1.5170 1.5170 1.5232 1.5293 1.5353 1.5411 1.5687	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3 1246.4 1254.2 1261.9 1269.5 1277.1 1284.4 1291.6 1298.8 1305.8 1312.8 1319.7
Sat. 510 520 530 540 550 550 570 580 590 600 610 620 630 640 650 650 650 650 670 750 800 750	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .882 .895 .908 .921 0.934 .947 .967 .972 .984 0.997 1.056	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4622 1.4700 1.4776 1.4850 1.4922 1.4992 1.5061 1.5128 1.5128 1.5128 1.5257 1.5381 1.5441 1.5499 1.5557 1.5669 1.5724 1.5983 1.6225	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1264.6 1271.8 1278.8 1285.8 1292.6 1299.4 1306.1 1312.7 1319.2 1325.7 1332.1 1338.5 1344.8 1375.6 1405.4	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822 .835 .847 0.860 .872 .847 0.860 .872 .847 0.860 .908 0.919 0.975 1.029	700 [503.4] 1.4250 1.4396 1.4480 1.4561 1.4480 1.4716 1.4716 1.4791 1.4864 1.4793 1.5071 1.5201 1.5264 1.5325 1.5385 1.5444 1.5559 1.5615 1.5880 1.6125	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3 1280.5 1294.5 1301.4 1308.2 1314.9 1324.5 1324.1 1334.6 1341.0 1372.4 1402.7	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721 0.734 .746 .759 .771 .783 0.795 .807 .818 .830 .841 0.852 .956	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4508 1.4508 1.4587 1.4664 1.4739 1.4812 1.4883 1.4953 1.5020 1.5026 1.5151 1.5214 1.5276 1.5496 1.5436 1.5496 1.5454 1.5511 1.5781 1.5781 1.6031	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2 1267.7 1275.1 1282.3 1289.5 1296.5 1303.5 1310.4 1317.2 1323.9 1330.6 1337.2 1369.2 1400.0	0.570 0.572 .586 .600 0.614 .628 .641 .654 .667 0.679 .691 .703 .715 .727 0.738 .749 .762 0.771 .782 0.793 .844 .893	800 [518.5] 1.4104 1.4117 1.4207 1.4295 1.4461 1.4541 1.4541 1.4541 1.4543 1.4694 1.4767 1.4839 1.4908 1.4976 1.5042 1.5107 1.5170 1.5293 1.5293 1.5353 1.5411 1.5687 1.5941	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3 1246.4 1254.2 1261.9 1269.5 1277.1 1284.4 1291.6 1298.8 1305.8 1312.8 1319.7 1326.5 1333.2 1365.9 1397.3
Sat. 510 520 530 540 550 570 580 570 600 610 620 630 640 650 660 670 680 690 750 750	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .882 .895 .908 .921 0.934 .947 .960 .972 .984 0.997 1.056	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.5061 1.5128 1.5193 1.5257 1.5320 1.5381 1.5441 1.5441 1.5441 1.5659 1.5724 1.5724	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1250.0 1257.3 1264.6 1271.8 1278.8 1299.4 1306.1 1319.2 1319.2 1325.7 1338.5 1344.8 1375.6	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822 .835 .847 .835 .847 0.860 .872 .884 .896 .908 0.919 0.975	700 [503.4] 1.4250 1.4396 1.4480 1.4561 1.4480 1.4561 1.4716 1.4716 1.4716 1.4791 1.4864 1.4934 1.5003 1.5071 1.5137 1.5204 1.5325 1.5385 1.5444 1.5502 1.5559 1.5615 1.5880	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3 1280.5 1287.5 1284.5 1301.4 1308.2 1314.9 1321.5 1328.1 1334.6 1341.0 1372.4	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721 0.734 .746 .759 .771 .783 0.795 .807 .818 .830 .841 0.852 .905	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4508 1.4587 1.4664 1.4739 1.4812 1.4883 1.4953 1.5026 1.5026 1.5151 1.5214 1.5276 1.5336 1.5496 1.5454 1.5511 1.5781	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2 1267.7 1275.1 1289.5 130.4 1396.5 130.4 1317.2 1323.9 1330.6 1337.2 1369.2	0.570 0.572 .586 .600 0.614 .628 .641 .654 .667 0.679 .691 .703 .715 .727 0.738 .749 .749 .769 .771 .782 0.793 .844	800 [518.5] 1.4104 1.4117 1.4207 1.4295 1.4401 1.4541 1.4541 1.4541 1.4541 1.4543 1.4694 1.4767 1.4839 1.4908 1.4976 1.5042 1.5170 1.5170 1.5232 1.5293 1.5353 1.5411 1.5687	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3 1246.4 1254.2 1261.9 1269.5 1277.1 1284.4 1291.6 1298.8 1305.8 1312.8 1319.7 1326.5 1333.2 1365.9
Sat. 510 520 530 540 550 560 570 580 610 620 630 640 650 660 670 680 690 750 880 700 750 850 850 850 700 700 700 700 700 700 700 7	0.708 0.733 .750 .766 .781 0.796 .811 .826 .840 .854 0.868 .854 0.868 .855 .908 .921 0.934 .947 .960 .972 .984 0.997 1.056 1.112 1.167	650 [495.2] 1.4330 1.4458 1.4542 1.4622 1.4700 1.4776 1.4850 1.4922 1.5061 1.5128 1.5128 1.5128 1.5128 1.5128 1.5128 1.5257 1.5320 1.5381 1.5441 1.5499 1.5557 1.5614 1.5669 1.5724 1.5669	1198.7 1211.0 1219.1 1227.0 1234.8 1242.5 1257.3 1264.6 1271.8 1278.8 1285.8 1292.6 1299.4 1306.1 1312.7 1325.7 1325.7 1338.5 1344.8 1375.6 1405.4 1434.5	0.656 0.667 .682 .697 .712 0.727 .741 .756 .769 .783 0.796 .809 .822 .835 .847 0.860 .872 .884 .896 .908 0.919 0.975 1.029 1.080	700 [503.4] 1.4250 1.4396 1.4480 1.4561 1.4640 1.4716 1.4791 1.4864 1.4791 1.5003 1.5071 1.5137 1.5201 1.5137 1.5264 1.5325 1.5385 1.5559 1.5559 1.5615 1.5580 1.6125 1.6355	1197.4 1203.0 1211.5 1219.7 1227.8 1235.7 1243.5 1251.1 1258.6 1266.0 1273.3 1280.5 1287.5 1294.5 1301.4 1308.2 1314.9 1328.1 1328.1 1334.6 1372.4 1372.4 1402.7	0.610 0.623 .638 .653 0.667 .681 .695 .708 .721 0.734 .746 .759 .771 .783 0.795 .807 .818 .830 .841 0.852 .956 1.005	750 [511.1] 1.4175 1.4255 1.4342 1.4426 1.4508 1.4587 1.4664 1.4739 1.4812 1.4883 1.4953 1.5020 1.5020 1.5026 1.5151 1.5214 1.5276 1.5336 1.5454 1.5511 1.5781 1.6031 1.6024	1195.9 1203.7 1212.3 1220.6 1228.8 1236.9 1244.8 1252.6 1260.2 1267.7 1275.1 1282.3 1289.5 1296.5 1303.5 1310.4 1327.2 1329.1 1330.6 1337.2 1350.2 1400.0	0.570 .586 .600 0.614 .628 .641 .654 .667 0.679 .691 .703 .715 .727 0.738 .749 .760 .771 .782 0.793 .844 .893 .939	800 [518.5] 1.4104 1.4117 1.4207 1.4295 1.4379 1.4461 1.4541 1.4541 1.4541 1.4618 1.4694 1.4767 1.4839 1.4908 1.4976 1.5042 1.5170 1.5232 1.5293 1.5313 1.53411 1.5687 1.5941 1.6177	1194.4 1195.8 1204.6 1213.3 1221.8 1230.2 1238.3 1246.4 1254.2 1261.9 1269.5 1277.1 1284.4 1291.6 1298.8 1305.8 1319.7 1326.5 1333.2 1365.9 1397.3 1427.6

TABLE 4. BOILING POINTS

PRESSURES IN INCHES OF MERCURY

°F.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
190	19.01	19.05	19.09	19.13	19.18	19.22	19.26	19.30	19.34	19.38
191	19.42	19.47	19.51	19.55	19.59	19.63	19.67	19.72	19.76	19.80
192	19.84	19.88	19.93	19.97	20.01	20.05 °	20.10	20.14	20.18	20.22
193	20.27	20.31	20.35	20.40	20.44	20.48	20.53	20.57	20.61	20.66
194	20.70	20.74	20.79	20.83	20.88	20.92	20.96	21.01	21.05	21.10
195	21.14	21.19	21.23	21.28	21.32	21.37	21.41	21.46	21.50	21.55
196	21.59	21.64	· 21.68	21.73	21.77	21.82	21.86	21.91	21.96	22.00
197	22.05	22.09	22.14	22.19	22.23	22.28	22.33	22.37	22.42	22.47
198	22.51	22.56	22.61	22.65	22.70	22.75	22.80	22.84	22.89	22.94
199	22.99	23.03	23.08	23.13	23.18	23.23	23.27	23.32	23.37	23.42
200	23.47	23.52	23.56	23.61	23.66	23.71	23.76	23.81	23.86	23.91
201	23.96	24.00	24.05	24.10	24.15	24.20	24.25	24.30	24.35	24.40
202	24.45	24.50	24.55	24.60	24.66	24.71	24.76	24.81	24.86	24.91
203	24.96	25.01	25.06	25.11	25.16	25.22	25.27	25.32	25.37	25.42
204	25.47	25.53	25-58	25.63	25.68	25.74	25.79	25.84	25.89	25.95
205	26.00	26.05	26.10	26.16	26.21	26.26	26.32	26.37	26.42	26.48
206	26.53	26.59	26.64	26.69	26.75	26.80	26.86	26.91	26.96	27.02
207	27.07	27.13	27.18	27.24	27.29	27.35	27.40	27.46	27.51	27.57
208	27.62	27.68	27.74	27.79	27.85	27.90	27.96	28.02	28.07	28.13
209	28.18	28.24	28.30	28.35	28.41	28.47	28.53	28.58	28.64	28.70
210	28.75	28.81	28.87	28.93	28.99	29.04	29.10	29.16	29.22	29.28
211	29.33	29.39	29.45	29.51	29.57	29.63	29.69	29.75	29.80	29.86
212	29.92	29.98	30.04	30.10	30.16	30.22	30.28	30.34	30.40	30.46
213	30.52	30.58	30.64	30.70	30.76	30.82	30.88	30.94	31.00	31.06

TEMPERATURES, FAHRENHEIT

Pres- sure, in. of Hg.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
20	192.37	192.61	192.84	193.08	193.31	193.54	193.77	194.00	194.23	194.46
21	194.68	194.91	195.13	195.35	195.58	195.80	196.02	196.24	196.46	196.68
. 22	196.90	197.12	197.33	197.54	197.76	197.97	198.19	198.40	198.61	198.82
23	199.03	199.24	199.45	199.66	199.86	200.07	200.27	200.48	200.69	200.89
24	201.09	201.29	201.49	201.69	201.89	202.09	202.29	202.49	202.69	202.88
25	203.08	203.28	203.47	203.66	203.86	204.05	204.24	204.43	204.62	204.81
26	205.00	205.19	205.38	205.57	205.76	205.94	206.13	206.31	206.50	206.69
27	206.87	207.05	207.23	207.41	207.60	207.78	207.96	208.14	208.32	208.49
28	208.67	208.85	209.03	209.20	209.38	209.56	209.73	209.91	210.08	210.25
29	210.43	210.60	210.77	210.94	211.11	211.28	211.45	211.62	211.79	211.96
30	212.13	212.30	212.47	212.63	212.80	212.97	213.13	213.30	213.46	213.63

TABLE 5. THERMAL PROPERTIES OF WATER

Temp., °F.	Sat. pres- sure, lb. per sq. in.	Volume, cu. ft. per lb.	Weight, lb. per cu. ft.	144 Apv'	Specific heat	Temp., °F.	Sat. pres- sure, lb. per sq. in.	Volume, cu. ft. per lb.	Weight, lb. per cu. ft.	144 Apv'	Specific heat.
20	0.050	0.01603	62.37	0.000	1.0210	370	173.2	0.01829	54.66	0.585	1.053
30	.081	.01602	62.42	.000	1.0104	380	195.6	.01843	54.25	.665	1.057
40	.122	.01602	62.43	.000	1.0048	390	220.1	.01857	53.84	.754	1.062
50	0.178	0.01602	62.42	0.001	1.0015	400	247	0.0187	53.42	0.855	1.067
60	.256	.01603	62.37	.001	0.9995	410	276	.0189	52.99	0.966	1.072
70	.363	.01605	62.30	.00I	.9982	420	308	.0190	52.55	1.09	1.078
80	.507	.01607	62.22	.002	.9975	430	343	.0192	52.11	I.22	1.083
90	.698	.01610	62.11	.002	.9971	440	381	.0194	51.66	1.37	1.089
100	0.949	0.01613	62.00	0.003	0.9970	450	422	0.0195	51.2	1.53	1.095
110	1.274	.01616	61.86	.004	.9971	460	466	.0197	50.7	1.70	1.101
I 20	1.692	.01620	61.71	.005	·9974	470	514	.0199	50.2	1.89	1.107
130	2.221	.01625	61.55	.007	.9978	480	565	.0201	49.7	2.10	1.114
140	2.887	.01629	61.38	.009	.9984	490	620	.0203	49.2	2.33	1.121
150	3.716	0.01634	61.20	0.011	0.9990	500	679	0.0205	48.7	2.58	1.130
160	4.739	.01639	61.00	.014	0.9998	510	743	.0208	48.2	2.86	1.140
170	5.99	.01645	60.80	.019	1.0007	520	810	.0210	47.6	3.15	1.151
180	7.51	.01651	60.58	.024	1.0017	530	883	.0212	47.1	3.47	1.164
190	9.34	.01657	60.36	.030	1.0028	540	960	.0215	46.5	3.82	1.181
200	11.53	0.01663	60.12	0.036	1.0039	550	1043	0.0218	45.9	4.21	1.200
210	14.12	.01670	59.88	.044	1.0052	560	1131	.0221	45.2	4.62	I.222
220	17.19	.01677	59.63	.053	1.0068	570	1224	.0224	44.6	5.07	1.249
230	20.78	.01684	59.37	.064	1.0085	580	1323	.0227	44.0	5.57	1.281
240	24.97	.01692	59.11	.078	1.0104	590	1429	.0231	43.3	6.11	1.318
250	29.83	0.01700	58.83	0.094	1.0125	600	1540	0.0235	42.6	6.70	1.362
260	35.44	.01708	58.55	.112	1.0148	610	1659	.024	41.8	7.35	1.415
270	41.87	.01716	58.26	.133	1.0173	620	1784	.024	41.0	8.1	1.479
280	49.22	.01725	57.96	.157	1.020	630	1917	.025	40.2	8.8	1.559
290	57.57	.01735	57.65	.185	1.023	640	2057	.025	39.2	9.7	1.661
300	67.02	0.01745	57.32	0.217	1.026	650	2205	0.026	38.2	10.7	1.793
310	77.68	.01755	56.98	.254	1.029	660	2361	.027	37.2	11.8	
320	89.65	.01766	56.62	.295	1.033	670	2526	.028	36.0	13.0	
330	103.0	.01778	56.24	.341	1.036	680	2699	.029	34.5	14.5	
340	118.0	.01790	55.85	.392	1.040	690	2882	.031	32.6	16.4	
350	134.6	0.01803	55.46	0.449	1.044	700	3075	0.034	29.7	19.2	
360	153.0	.01816	55.06	.513	1.048	706.3	3200	.048	20.9	28.4	

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Temp. In. of Hg. Lb. per sq. in. <tr td=""> . . <t< th=""><th>Per cu, ft. Pounds ••••••••••••••••••••••••••••••••••••</th><th>5</th><th>per lb. of dry air Pounds G</th><th>ry air Grains</th><th>of 1 lb. of dry</th><th>of I lb. of dry air + vapor to</th><th>in B.t.u. of 1 lb of dry air above o° F.</th><th>Latent heat of vapor, B.t.u.</th><th>of d var</th></t<></tr> <tr><th>0.10148 0.0375 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0528 0.0528 0.0528 0.032 0.1027 0.1130</th><th>Pounds 0.0000574 0.000746 0.0001001 0.0001103 0.0001134 0.000161 0.000161 0.000161</th><th>Grains 0.472 .522 .576 .636 .701</th><th>Pounds</th><th>Grains</th><th>air</th><th></th><th>above of F.</th><th></th><th></th></tr> <tr><th>0.0375 0.0375 0.0417 0.0417 0.0567 0.0567 0.0566 0.0566 0.0566 0.0328 0.0328 0.0332 0.1130 0.0375 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.05667 0.0567 0.0572 0.0572 0.0567 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.057200 0.05720000000000000000000000000000000000</th><th>o.cocof74 .coco746 .coco823 .coco909 .coco103 .coc121 .coc134 .coc147 .coc161</th><th>0.472 .522 .576 .636 .701 .701</th><th></th><th></th><th></th><th></th><th></th><th></th><th>rate it</th></tr> <tr><td>0.117 0.0567 0.0567 0.0628 0.0628 0.0628 0.0566 0.0566 0.0566 0.0346 0.0332 0.1130 0.1130 0.0032 0.1130 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0056 0.0</td><td>.0000746 .000823 .0001001 0.0001103 .000121 .000134 .000161</td><td>.522 .576 .636 .701</td><td>0.000781</td><td>5.47</td><td>11.58</td><td>02.11</td><td>0.0</td><td>0.964</td><td>0.964</td></tr> <tr><td>.0462 .0512 .0567 .0567 .0694 .06946 .0932 .0932 .0932 .1130 .1130 .1130</td><td>.0000823 .0001001 .0001103 .00011103 .00011103 .0001147 .0001147</td><td>.576 .636 .701 0.772</td><td>.000864</td><td>6.08</td><td>11.63</td><td>11.65</td><td>0.482</td><td>1,071</td><td>1.553</td></tr> <tr><td>.0512 .0567 .0567 .0694 .06946 .0932 .0932 .0932 .1130 .1130 .1130 .1130 .01027 .01027 .01027 .01027 .01027 .01027 .01020 .0212 .0212 .0212 .0212 .0212 .0267 .02667 .02667 .02667 .02667 .0277 .02777 .02777 .02777 .02777 .027777 .027777777777</td><td>.0001001 .000103 0.0001103 .000134 .000134 .000161</td><td>.636 .701 0.772</td><td>.000963</td><td>6.74</td><td>11.68</td><td>11.70</td><td>0.964</td><td>1.186</td><td>2.150</td></tr> <tr><td>.0567 0.0628 0.0694 0.0766 0.0325 0.1027 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.1130000000000</td><td>.0001001 0.0001103 0.000121 0.000134 0.000137 0.000161</td><td>.701</td><td>.00100.</td><td>7.47</td><td>11.73</td><td>11.75</td><td>1.446</td><td>1.313</td><td>2.759</td></tr> <tr><td>0.0628 .0694 .0766 .0846 .0932 0.1027 .1130</td><td>0.0001103 .000121 .000134 .000147 .000147 .000161</td><td>0.772</td><td>.001183</td><td>8.28</td><td>11.78</td><td>08.11</td><td>1.928</td><td>I.455</td><td>3.383</td></tr> <tr><td>.0694 .0766 .0846 .0332 .01027 .1130 .1130</td><td></td><td></td><td>0.001 200</td><td>9.16</td><td>11.83</td><td>11.86</td><td>2.411</td><td>1.608</td><td>4.010</td></tr> <tr><td>.0766 .0846 .0932 .1133 0.1123 0.1123 .1230</td><td>.000134 .000147 .000161 0.000177</td><td>.850</td><td>.001447</td><td>10.13</td><td>11.88</td><td>10.11</td><td>2.803</td><td>1.776</td><td>4.669</td></tr> <tr><td></td><td>.000147 .000161 0.000177</td><td>.035</td><td>005100</td><td>01.11</td><td>11.94</td><td>11.07</td><td>3.375</td><td>1.961</td><td>5.336</td></tr> <tr><td>.0932 0.1027 .1130 .1242</td><td>191000.0</td><td>I.028</td><td>.001764</td><td>12.35</td><td>66.11</td><td>12.02</td><td>3.858</td><td>2.162</td><td>6.020</td></tr> <tr><td>0.1027 .1130 .1242</td><td>0.000177</td><td>1.128</td><td>.001946</td><td>13.62</td><td>12.04</td><td>12.08</td><td>4.340</td><td>2.383</td><td>6.723</td></tr> <tr><td>.1130</td><td></td><td>1.227</td><td>0.002144</td><td>15.01</td><td>12.00</td><td>12.13</td><td>4.822</td><td>2.623</td><td>7.446</td></tr> <tr><td>00211</td><td>0000</td><td>1.256</td><td>.002360</td><td>16.52</td><td>12.14</td><td>12.10</td><td>5.305</td><td>2.885</td><td>8.100</td></tr> <tr><td></td><td>.000212</td><td>1.485</td><td>.002596</td><td>18.17</td><td>12.19</td><td>12.24</td><td>5.787</td><td>3.170</td><td>8.957</td></tr> <tr><td>.1365</td><td>.000232</td><td>1.625</td><td>.002854</td><td>86.01</td><td>12.24</td><td>12.30</td><td>6.270</td><td>3.482</td><td>9.752</td></tr> <tr><td>28 .1499 .0736</td><td>.000254</td><td>1.776</td><td>.003134</td><td>21.94</td><td>12.29</td><td>12.35</td><td>6.752</td><td>3.821</td><td>10.573</td></tr> <tr><td>30 o 1646</td><td>0.000.78</td><td>T.043</td><td>0.003444</td><td>24.11</td><td>12.34</td><td>12.41</td><td>7.234</td><td>4.195</td><td>11.420</td></tr> <tr><td>.1806</td><td>.000303</td><td>2.124</td><td>.003782</td><td>26.47</td><td>12.30</td><td>12.47</td><td>7.716</td><td>4.058</td><td>11.783</td></tr> <tr><td>.1880</td><td>.000315</td><td>2.206</td><td>.003938</td><td>27.57</td><td>12.41</td><td>12.49</td><td>7.96</td><td>4.22</td><td>12.18</td></tr> <tr><td>34 .1957 .0961</td><td>.000327</td><td>2.292</td><td>.004100</td><td>28.70</td><td>12.44</td><td>12.52</td><td>8.20</td><td>4.40</td><td>12.60</td></tr> <tr><td>36 0.2026</td><td>0.000140</td><td>2.280</td><td>0.004268</td><td>29.88</td><td>12.47</td><td>12.55</td><td>8.44</td><td>4.57</td><td>13.02</td></tr> <tr><td>0110</td><td>000252</td><td>144.6</td><td>004442</td><td>21.00</td><td>12.40</td><td>12.58</td><td>8.68</td><td>4.76</td><td>13.44</td></tr> <tr><td>1020</td><td>-92000</td><td>2 402</td><td>004622</td><td>22.25</td><td>12.52</td><td>12.61</td><td>8.03</td><td>4.05</td><td>12.87</td></tr> <tr><td>2202</td><td>.000381</td><td>2.663</td><td>.004800</td><td>33.66</td><td>12.54</td><td>12.64</td><td>0.17</td><td>5.14</td><td>14.31</td></tr> <tr><td></td><td>.000395</td><td>2.764</td><td>.005002</td><td>35.01</td><td>12.57</td><td>12.67</td><td>9.41</td><td>5.35</td><td>14.76</td></tr> <tr><td>C</td><td></td><td>050</td><td></td><td></td><td></td><td></td><td>3</td><td>21</td><td>10 11</td></tr> <tr><td>0.24/0</td><td>0.00010</td><td>5.000</td><td>202 Con.o</td><td>14.00</td><td>60.71</td><td>0/.71</td><td>C0.2</td><td>0.00</td><td></td></tr> <tr><td>41 .2576 .1266</td><td>.000425</td><td>2.976</td><td>.005410</td><td>37.87</td><td>12.02</td><td>12.73</td><td>9.89</td><td>5.70</td><td>15.07</td></tr> <tr><td></td><td>.000441</td><td>3.087</td><td>.005625</td><td>39.38</td><td>12.04</td><td>12.70</td><td>10.14</td><td>10.0</td><td>10.14</td></tr> <tr><td>-</td><td>.000457</td><td>3.201</td><td>.005848</td><td>40.93</td><td>12.67</td><td>12.79</td><td>10.38</td><td>0.24</td><td>10.02</td></tr> <tr><td>.2891</td><td>.000474</td><td>3.319</td><td>.006078</td><td>42.55</td><td>12.69</td><td>12.82</td><td>10.62</td><td>6.48</td><td>01.71</td></tr>	Per cu, ft. Pounds ••••••••••••••••••••••••••••••••••••	5	per lb. of dry air Pounds G	ry air Grains	of 1 lb. of dry	of I lb. of dry air + vapor to	in B.t.u. of 1 lb of dry air above o° F.	Latent heat of vapor, B.t.u.	of d var	0.10148 0.0375 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0528 0.0528 0.0528 0.032 0.1027 0.1130	Pounds 0.0000574 0.000746 0.0001001 0.0001103 0.0001134 0.000161 0.000161 0.000161	Grains 0.472 .522 .576 .636 .701	Pounds	Grains	air		above of F.			0.0375 0.0375 0.0417 0.0417 0.0567 0.0567 0.0566 0.0566 0.0566 0.0328 0.0328 0.0332 0.1130 0.0375 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.05667 0.0567 0.0572 0.0572 0.0567 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.057200 0.05720000000000000000000000000000000000	o.cocof74 .coco746 .coco823 .coco909 .coco103 .coc121 .coc134 .coc147 .coc161	0.472 .522 .576 .636 .701 .701							rate it	0.117 0.0567 0.0567 0.0628 0.0628 0.0628 0.0566 0.0566 0.0566 0.0346 0.0332 0.1130 0.1130 0.0032 0.1130 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0056 0.0	.0000746 .000823 .0001001 0.0001103 .000121 .000134 .000161	.522 .576 .636 .701	0.000781	5.47	11.58	02.11	0.0	0.964	0.964	.0462 .0512 .0567 .0567 .0694 .06946 .0932 .0932 .0932 .1130 .1130 .1130	.0000823 .0001001 .0001103 .00011103 .00011103 .0001147 .0001147	.576 .636 .701 0.772	.000864	6.08	11.63	11.65	0.482	1,071	1.553	.0512 .0567 .0567 .0694 .06946 .0932 .0932 .0932 .1130 .1130 .1130 .1130 .01027 .01027 .01027 .01027 .01027 .01027 .01020 .0212 .0212 .0212 .0212 .0212 .0267 .02667 .02667 .02667 .02667 .0277 .02777 .02777 .02777 .02777 .027777 .027777777777	.0001001 .000103 0.0001103 .000134 .000134 .000161	.636 .701 0.772	.000963	6.74	11.68	11.70	0.964	1.186	2.150	.0567 0.0628 0.0694 0.0766 0.0325 0.1027 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.1130000000000	.0001001 0.0001103 0.000121 0.000134 0.000137 0.000161	.701	.00100.	7.47	11.73	11.75	1.446	1.313	2.759	0.0628 .0694 .0766 .0846 .0932 0.1027 .1130	0.0001103 .000121 .000134 .000147 .000147 .000161	0.772	.001183	8.28	11.78	08.11	1.928	I.455	3.383	.0694 .0766 .0846 .0332 .01027 .1130 .1130			0.001 200	9.16	11.83	11.86	2.411	1.608	4.010	.0766 .0846 .0932 .1133 0.1123 0.1123 .1230	.000134 .000147 .000161 0.000177	.850	.001447	10.13	11.88	10.11	2.803	1.776	4.669		.000147 .000161 0.000177	.035	005100	01.11	11.94	11.07	3.375	1.961	5.336	.0932 0.1027 .1130 .1242	191000.0	I.028	.001764	12.35	66.11	12.02	3.858	2.162	6.020	0.1027 .1130 .1242	0.000177	1.128	.001946	13.62	12.04	12.08	4.340	2.383	6.723	.1130		1.227	0.002144	15.01	12.00	12.13	4.822	2.623	7.446	00211	0000	1.256	.002360	16.52	12.14	12.10	5.305	2.885	8.100		.000212	1.485	.002596	18.17	12.19	12.24	5.787	3.170	8.957	.1365	.000232	1.625	.002854	86.01	12.24	12.30	6.270	3.482	9.752	28 .1499 .0736	.000254	1.776	.003134	21.94	12.29	12.35	6.752	3.821	10.573	30 o 1646	0.000.78	T.043	0.003444	24.11	12.34	12.41	7.234	4.195	11.420	.1806	.000303	2.124	.003782	26.47	12.30	12.47	7.716	4.058	11.783	.1880	.000315	2.206	.003938	27.57	12.41	12.49	7.96	4.22	12.18	34 .1957 .0961	.000327	2.292	.004100	28.70	12.44	12.52	8.20	4.40	12.60	36 0.2026	0.000140	2.280	0.004268	29.88	12.47	12.55	8.44	4.57	13.02	0110	000252	144.6	004442	21.00	12.40	12.58	8.68	4.76	13.44	1020	-92000	2 402	004622	22.25	12.52	12.61	8.03	4.05	12.87	2202	.000381	2.663	.004800	33.66	12.54	12.64	0.17	5.14	14.31		.000395	2.764	.005002	35.01	12.57	12.67	9.41	5.35	14.76	C		050					3	21	10 11	0.24/0	0.00010	5.000	202 Con.o	14.00	60.71	0/.71	C0.2	0.00		41 .2576 .1266	.000425	2.976	.005410	37.87	12.02	12.73	9.89	5.70	15.07		.000441	3.087	.005625	39.38	12.04	12.70	10.14	10.0	10.14	-	.000457	3.201	.005848	40.93	12.67	12.79	10.38	0.24	10.02	.2891	.000474	3.319	.006078	42.55	12.69	12.82	10.62	6.48	01.71
Per cu, ft. Pounds ••••••••••••••••••••••••••••••••••••	5	per lb. of dry air Pounds G	ry air Grains	of 1 lb. of dry	of I lb. of dry air + vapor to	in B.t.u. of 1 lb of dry air above o° F.	Latent heat of vapor, B.t.u.	of d var																																																																																																																																																																																																																																																																																																																																	
0.10148 0.0375 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0528 0.0528 0.0528 0.032 0.1027 0.1130	Pounds 0.0000574 0.000746 0.0001001 0.0001103 0.0001134 0.000161 0.000161 0.000161	Grains 0.472 .522 .576 .636 .701	Pounds	Grains	air		above of F.																																																																																																																																																																																																																																																																																																																																		
0.0375 0.0375 0.0417 0.0417 0.0567 0.0567 0.0566 0.0566 0.0566 0.0328 0.0328 0.0332 0.1130 0.0375 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.0417 0.05667 0.0567 0.0572 0.0572 0.0567 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.05720 0.057200 0.05720000000000000000000000000000000000	o.cocof74 .coco746 .coco823 .coco909 .coco103 .coc121 .coc134 .coc147 .coc161	0.472 .522 .576 .636 .701 .701							rate it																																																																																																																																																																																																																																																																																																																																
0.117 0.0567 0.0567 0.0628 0.0628 0.0628 0.0566 0.0566 0.0566 0.0346 0.0332 0.1130 0.1130 0.0032 0.1130 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0032 0.0056 0.0	.0000746 .000823 .0001001 0.0001103 .000121 .000134 .000161	.522 .576 .636 .701	0.000781	5.47	11.58	02.11	0.0	0.964	0.964																																																																																																																																																																																																																																																																																																																																
.0462 .0512 .0567 .0567 .0694 .06946 .0932 .0932 .0932 .1130 .1130 .1130	.0000823 .0001001 .0001103 .00011103 .00011103 .0001147 .0001147	.576 .636 .701 0.772	.000864	6.08	11.63	11.65	0.482	1,071	1.553																																																																																																																																																																																																																																																																																																																																
.0512 .0567 .0567 .0694 .06946 .0932 .0932 .0932 .1130 .1130 .1130 .1130 .01027 .01027 .01027 .01027 .01027 .01027 .01020 .0212 .0212 .0212 .0212 .0212 .0267 .02667 .02667 .02667 .02667 .0277 .02777 .02777 .02777 .02777 .027777 .027777777777	.0001001 .000103 0.0001103 .000134 .000134 .000161	.636 .701 0.772	.000963	6.74	11.68	11.70	0.964	1.186	2.150																																																																																																																																																																																																																																																																																																																																
.0567 0.0628 0.0694 0.0766 0.0325 0.1027 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.11300 0.1130000000000	.0001001 0.0001103 0.000121 0.000134 0.000137 0.000161	.701	.00100.	7.47	11.73	11.75	1.446	1.313	2.759																																																																																																																																																																																																																																																																																																																																
0.0628 .0694 .0766 .0846 .0932 0.1027 .1130	0.0001103 .000121 .000134 .000147 .000147 .000161	0.772	.001183	8.28	11.78	08.11	1.928	I.455	3.383																																																																																																																																																																																																																																																																																																																																
.0694 .0766 .0846 .0332 .01027 .1130 .1130			0.001 200	9.16	11.83	11.86	2.411	1.608	4.010																																																																																																																																																																																																																																																																																																																																
.0766 .0846 .0932 .1133 0.1123 0.1123 .1230	.000134 .000147 .000161 0.000177	.850	.001447	10.13	11.88	10.11	2.803	1.776	4.669																																																																																																																																																																																																																																																																																																																																
	.000147 .000161 0.000177	.035	005100	01.11	11.94	11.07	3.375	1.961	5.336																																																																																																																																																																																																																																																																																																																																
.0932 0.1027 .1130 .1242	191000.0	I.028	.001764	12.35	66.11	12.02	3.858	2.162	6.020																																																																																																																																																																																																																																																																																																																																
0.1027 .1130 .1242	0.000177	1.128	.001946	13.62	12.04	12.08	4.340	2.383	6.723																																																																																																																																																																																																																																																																																																																																
.1130		1.227	0.002144	15.01	12.00	12.13	4.822	2.623	7.446																																																																																																																																																																																																																																																																																																																																
00211	0000	1.256	.002360	16.52	12.14	12.10	5.305	2.885	8.100																																																																																																																																																																																																																																																																																																																																
	.000212	1.485	.002596	18.17	12.19	12.24	5.787	3.170	8.957																																																																																																																																																																																																																																																																																																																																
.1365	.000232	1.625	.002854	86.01	12.24	12.30	6.270	3.482	9.752																																																																																																																																																																																																																																																																																																																																
28 .1499 .0736	.000254	1.776	.003134	21.94	12.29	12.35	6.752	3.821	10.573																																																																																																																																																																																																																																																																																																																																
30 o 1646	0.000.78	T.043	0.003444	24.11	12.34	12.41	7.234	4.195	11.420																																																																																																																																																																																																																																																																																																																																
.1806	.000303	2.124	.003782	26.47	12.30	12.47	7.716	4.058	11.783																																																																																																																																																																																																																																																																																																																																
.1880	.000315	2.206	.003938	27.57	12.41	12.49	7.96	4.22	12.18																																																																																																																																																																																																																																																																																																																																
34 .1957 .0961	.000327	2.292	.004100	28.70	12.44	12.52	8.20	4.40	12.60																																																																																																																																																																																																																																																																																																																																
36 0.2026	0.000140	2.280	0.004268	29.88	12.47	12.55	8.44	4.57	13.02																																																																																																																																																																																																																																																																																																																																
0110	000252	144.6	004442	21.00	12.40	12.58	8.68	4.76	13.44																																																																																																																																																																																																																																																																																																																																
1020	-92000	2 402	004622	22.25	12.52	12.61	8.03	4.05	12.87																																																																																																																																																																																																																																																																																																																																
2202	.000381	2.663	.004800	33.66	12.54	12.64	0.17	5.14	14.31																																																																																																																																																																																																																																																																																																																																
	.000395	2.764	.005002	35.01	12.57	12.67	9.41	5.35	14.76																																																																																																																																																																																																																																																																																																																																
C		050					3	21	10 11																																																																																																																																																																																																																																																																																																																																
0.24/0	0.00010	5.000	202 Con.o	14.00	60.71	0/.71	C0.2	0.00																																																																																																																																																																																																																																																																																																																																	
41 .2576 .1266	.000425	2.976	.005410	37.87	12.02	12.73	9.89	5.70	15.07																																																																																																																																																																																																																																																																																																																																
	.000441	3.087	.005625	39.38	12.04	12.70	10.14	10.0	10.14																																																																																																																																																																																																																																																																																																																																
-	.000457	3.201	.005848	40.93	12.67	12.79	10.38	0.24	10.02																																																																																																																																																																																																																																																																																																																																
.2891	.000474	3.319	.006078	42.55	12.69	12.82	10.62	6.48	01.71																																																																																																																																																																																																																																																																																																																																

PROPERTIES OF STEAM AND AMMONIA

per lb. of dry air per lb. of dry air Pounds Grr 2 0.00632 44 8 .00682 44	ber cu. ft.			
Pounds 0.00632 0.00682 0.0082		er cu. ft.	per cu. ft.	I horse in per cu. ft.
0.00632 .00656 .00682		Grains	Pounds Grains	Pounds
.00656 .00682 .00708				0.000492
.00682		3.568		
80200.				.000528
~~ / ~~ ~		3.832		.000547
.00736		3.970	.000567 3.970	.000567
0.00764		4.113	0.000588 4.113	0.000588
.00793				609000.
.00823				.000630
.00855			.000653 4.568	
.00887				929000.
0.000,20		4.895	0.000699 4.895	_
.00955		_	_	_
16600.		_	.000749 5.242	-
.01028		_	_	.000775
.01066		5.611		.000802
0.01105			0.000820 5.804	0.000829
.01146		6.003		
.01188		6.208		.000887
.01231		6.418		416000.
.01276		6.633	.000948 6.633	.000948
0.01323		6.855	0.000979 6.855	
.01370				.001012
.01420		7.320	1	.001046
.0147I				080100.
.01524		7.813	.001116 7.813	911100.
0.01578		8.069		0.001153
.01634				061100.
.01692				
.01751		-	.001269 8.882	.001269
.01813		9.168	.001310 9.168	

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PROPERTIES OF STEAM AND AMMONIA

	Pressure of saturated vapor	aturated vapor		weight of saturated vapor	INTRICT ARDON		A OIUINE III CUI III		Heat content		* Heat content
Temp.,			per c	per cu. ft.	per lb. of dry air	dry air	of 1 lb. of dry	of I lb. of dry	in B.t.u. of I lb of dry air	Latent heat of vapor, B.t.u.	of dry air with vapor to satu-
	In. of Hg.	Lb. per sq. in.	Pounds	Grains	Pounds	Grains		air T vapor w saturate it	above o' F.		rate it
1	0.8744	0.4295	0.001352	9.46	0.01877	131.4	13.48	13.88	18.11	17.91	37.81
	.0040	.4440	.001395	9.76	.01942	135.9	13.50	13.92	18.35	20.38	38.73
	2450.	4500	.001439	10.07	.02010	140.7	13.53	13.96	18.59	21.08	39.62
_	9658	.4744	.001485	10.39	.02080	145.6	13.55	14.00	18.84	21.80	40.6
	1866.	.4903	.001532	10.72	.02152	150.6	13.58	14.05	80.61	22.55	41.63
	1.0314	0.5066	0.001580	90.11	0.02226	155.8	13.60	14.09	19.32	23.31	42.64
	1.0656	.5234	.001629	11.40	.02303	161.2	I3.63	14.13	19.56	24.11	43.67
-	1.1008	.5406	.001680	11.76	.02381	166.7	13.65	14.17	08.01	24.92	44.72
-	1.1370	.5584	.001732	12.12	.02463	172.4	13.68	14.22	20.04	25.76	45.8
-	1.174	.5767	.001786	12.50	.02547	I78.3	13.70	14.26	20.29	26.62	46.9
	1.212	0.5955	0.001841	12.89	0.02634	184.4	13.73	14.31	20.53	27.51	48.04
-	1.261	6148	.001807	13.28	.02723	190.6	13.75	14.35	20.77	28.43	49.20
	1.202	.6347	220100	13.68	.02815	0.761	13.78	14.40	21.01	29.38	50.39
	T. 224	.6551	.002014	14.10	.02910	203.7	13.80	14.45	21.25	30.35	S1.6
	1.377	.6761	.002075	14.53	.03008	210.6	13.83	14.50	21.50	31.36	52.8
	TOA T	0 6077	0.0002137	14.96	0.03100	217.6	12.86	14.55	21.74	32.39	54.13
	1.466	1200	.002201	15.41	.03213	224.9	13.88	14.60	21.98	33.46	55.44
-	1.512	.7427	.002267	15.87	.03320	232.4	13.91	14.65	22.22	34.59	- 56.7
-	1.560	.7660	.002334	16.34	.03430	240.1	13.93	14.70	22.46	35.69	58.1
	1.609	1062.	.002403	16.82	.03544	247.1	13.96	14.75	22.7I	36.86	59.5
	1.640	0.8148	0.002474	17.32	0.03662	256.3	13.98	14.80	22.95	38.06	61.01
_	017.1	.8401	.002546	17.82	.03783	264.8	14.01	14.86	23.19	39.30	62.4
_	1.763	.8662	.002621	18.35	03908	273.6	14.03	14.91	23.43	40.57	64.00
	1.818	.8929	.002697	18.88	.04036	282.5	14.06	14.97	23.67	41.88	05.5
	I.874	.9204	.002775	19.42	.04169	291.8	14.08	15.02	23.91	43.24	1.70
	1.931	0.9486	0.002855	86.91	0.04305	301.3	14.11	15.08	24.IG	44.63	68.79
-	1.990	0.9775	.002937	20.56	.04446	311.2	14.14	15.14	24.40	46.07	70.47
	2.051	1.0072	.003021	21.15	.04591	321.4	14.16	15.20	24.64	47.54	72.1
-	2.113	1.0376	.003107	21.75	.04741	331.9	14.19	I5.26	24.88	49.07	73.95
-	2.176	I.0689	.003195	22.36	.04895	342.7	14.21	I5.33	25.13	50.04	75.7

TARLE 6. MIXTURES OF AIR AND SATURATED WATER VAPOR

PROPERTIES OF STEAM AND AMMONIA

Press	sure of sati	Pressure of saturated vapor		Weight of sat	Weight of saturated vapor		Volume in cu. ft.	n cu. ft.	Heat content		* Heat content
- n y1			per c	per cu. ft.	per lb. of dry air	dry air	of 1 lb. of dry	of I lb. of dry	in B.t.u. of I lb of dry air	Latent heat of vapor, B.t.u.	-
10.111		-nr. he red .ur	Pounds	Grains	Pounds	Grains	air	saturate it	above o' F.		rate it
2.:	241	0101.1	0.003285	22.99	0.0505	354	14.24	15.39	25.37	52.26	77.63
2.5	2.308	1.134	.003377	23.64	.0522	365	14.26	15.46	25.61	53.92	54
2	377	1.168	.003472	24.30	0530.	377	14.29	15.52	25.85	55.64	8
2.4	2.448	1.202	.003568	24.98	.0556	389	14.31	15.59	26.09	57.41	83.50
2.	2.520	1.238	.003667	25.67	.0574	402	14.34	15.66	26.33	59.23	×.
2.5	504	1.274	0.001760	26.28	0.0503	415	14.36	15.73	26.58	61.11	87.69
2.6	2.670	T.2.T	.002872	11 46	o i you	804	14.20	15.80	26.82	62.04	×
2	748	1.250	040200.	27.85	1290	442	11.11	15.87	27.06	65.04	92.10
2.2	2.827	1.280	180700.	28.61	.0652	456	14.44	15.05	27.30	67.10	6
2.6	2.909	1.429	.004198	29.39	.0673	471	14.46	16.02	27.55	69.22	6.77
2.0	903	1.470	0.004312	30.18	0.0694	486	14.40	16.10	27.79	71.40	01.00
3.0	3.070	1.512	.004428	31.00	2120	502	14.52	16.18	28.03	73.65	IOI.68
	167	1.555	747400.	21.82	0730	818	14.54	16.26	28.27	75.97	104.24
2	257	1.600	.004660	32.68	2020.	534	14.57	16.35	28.51	78.36	106.87
5.00	3.349	1.645	.004793	33.55	.0788	551	14.59	16.43	28.76	80.80	109.56
3.6	444	1.602	0.004020	24.44	0.0812	569	14.62	16.52	20.00	- 83.37	112.37
	3.952	1.041	005500	30.10	.0053	667	14.75	16.99	30.21	97.33	127.54
4.4	523	2.221	.006356	44.49	.1114	780	14.88	17.53	31.42	113.64	145.06
10	163	2.536	701700.	50.38	.1305	913	15.00	18.13	32.63	132.71	165.34
S.	5.878	2.887	.008130	56.91	.1532	1072	15.13	18.84	33.85	155-37	18
6.6	6.677	3.280	0.00016	64.1	0.1800	1260	15.26	19.64	35.06	182.05	217.1
7.	566	3.716	.01030	72.1	.2122	1485	15.39	20.60	36.27	214.03	250.3
×	554	4.201	.01156	80.9	.2511	1758	15.52	21.73	37.48	252.61	290.1
9.6	649	4.739	.01294	90.6	.2987	2091	15.64	23.09	38.69	299.55	338.2
10.01	860	5.334	.o1445	1.101	.3577	2504	15.77	24.75	39.91	357.75	397.7
12.3	20	5.990	0.01611	112.8	0.4324	:	15.90	26.84	41.12	431.2	472.3
13.67	67	6.71	.01793	125.5	5290		16.03	29.51	42.33	526.0	56
15.2	29	7.51	16610.	139.4	.6577		16.16	33.04	43.55	621.9	69
17.0	20	8.38	.02206	154.4	.8359		I6.28	37.89	44.76	826.I	879
10.01	IO	9.34	.02441	6.071	1.0985		16.41	45.00	45.97	1082.3	II2
23.46	46	11.53	0.02972	208.0	2.2953		16.67	77.24	48.40	2247.5	2296

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PROPERTIES OF STEAM AND AMMONIA

				Heat co in B.		Laten in B				Entropy.	
Pressure, lb.	Temp., °F.	Volume, cu. ft. per lb.	Weight, lb. per cu. ft.	of liquid	of vapor	of va- poriza- tion	Inter- nal	Energy of vapor B.t.u.	of liquid	of vapor- ization	of vapor
р	t	ν"	1/ v "	i'	i"	r	ρ·	u"	s'	r/T	s ″
1 2	- 103.7 - 87.1	225.0 117.0	0.0044			644.6 633.9	603.0 590.7	• • • •		1.8107	•••••
3 4	-76.5 -68.5	80.0 61.0	.0125 .0164		· · · · ·	626.9 621.6	582.7 576.5	••••	••••	1.6363 1.5891	•••••
5 6	- 62.0 - 56.6	49.3 41.6	0.0203	-98.1 -92.5 -87.6	519.1 521.1	617.2 613.5 610.2	571.5 567.3 563.7	473.4	-0.2207 2070	1.5523 1.5223	1.3316 1.3153 1.3018
7 8 9	-51.9 -47.6 -43.9	35.9 31.6 28.3	.0279 .0316 .0352	-83.2 -79.3	522.7 524.1 525.3	607.3 604.7	560.4 557.4	476.1 477.1 478.0	1947 1840 1747	1.4965 1.4740 1.4541	1.2900 1.2794
10	- 40.4	25.75	0.0388	-75.7	526.4	602.2	554.6	478.8	-0.1661	1.4363	1.2702
11	- 37.2	23.60	.0424	-72.4	527.4	599.9	552.0	479.5	1584	1.4202	1.2618
12	-34.3	21.75	.0460	-69.4	528.4	597.8	549.6	480.2	1513	1.4054	1.2541
13	-31.5	20.16	.0496	-66.5	529.3	595.8	547.4	480.9	1446	1.3917	1.2471
14	-28.9	18.79	.0532	-63.8	530.1	593.9	545.3	481.5	1384	1.3789	1.2405
15	-26.4	17.60	0.0568	-61.2	530.9	592.1	543·3	482.0	-0.1324	1.3669	1.2345
16	-24.1	16.56	2.0604	-58.8	531.6	590.4	541.4	482.5	1268	1.3557	1.2289
17	-21.9	15.64	.0639	-56.5	532.2	588.8	539.6	483.0	1215	1.3451	1.2236
18	- 19.8	14.82	.0675	-54.4	532.8	587.2	537.9	483.4	1165	1.3351	1.2186
19	- 17.8	14.09		-52.3	533.4	585.7	536.3	483.9	1119	1.3257	1.2138
20	- 15.9	13.45	0.0744	-50.3	534.0	584.3	534.7	484.3	-0.1075	1.3168	1.2093
21	- 14.0	12.82	.0780	-48.4	534.6	582.9	533.1	484.7	1032	1.3082	1.2050
22	- 12.2	12.27	.0815	-46.5	535.1	581.5	531.6	485.1	0990	1.2999	1.2009
23 24	- 10.5 - 8.8	11.77 11.30	.0850	-44.7 -42.9	535.6 536.1	580.2 579.0	530.2 528.8	485.4 485.8	0950 0912	1.2999 1.2920 1.2844	1.1970 1.1932
25	-7.2	10.88	0.0919	-41.3	536.5	577.8	527.4	486.1	-0.0876	1.2771	1.1896
26	-5.7	10.50		-39.7	536.9	576.6	526.1	486.4	0840	1.2701	1.1862
27	- 4.2	10.13	.0987	-38.1	537.4	575-4	524.9	486.7	—0805	1.2634	1.1829
28	- 2.7	9.78	.1022	-36.5	537.8	574-3	523.7	487.0	— .0771	1.2569	1.1798
29	- 1.3	9.47	.1056	-35.0	538.2	573-2	522.5	487.3	— .0739	1.2507	1.1768
30	+ 0.1	9.17	0.1090	-33.6	538.5	572.1	521.3	487.6	-0.0708	1.2447	1.1739
31	1.4	8.90	.1124	-32.2	538.9	571.1	520.2	487.8	0677	1.2389	1.1712
32	2.7	8.64	.1158	-30.8	539.3	570.1	519.1	488.1	0647	1.2332	1.1685
33	4.0	8.39	.1192	-29.5	539.6	569.1	518.0	488.4	0617	1.2275	1.1658
34	5.3	8.15	.1226	-28.2	540.0	568.1	516.9	488.6	0589	1.2220	1.1631
35	6.5	7.93	0.1260	-26.9	540.3	567.1	515.8	488.8	-0.0561	1.2167	1.1606
36	7.7	7.73	.1294	-25.6	540.6	566.2	514.8	489.1	0534	1.2116	1.1581
37	8.9	7.52	.1328	-24.4	540.9	565.3	513.8	489.3	0508	1.2066	1.1558
38 39	10.0 11.1	7.34 7.16	.1362	-23.2	541.2 541.5	564.4 563.5	512.8 511.9	489.5	0483 0458	1.2018 1.1971	1.1535
40	12.2	6.99	0.1430	- 20.8	541.8	562.6	511.0	489.9	-0.0433	1.1924	1.1491
41	13.3	6.82	.1464	- 19.7	542.0	561.7	510.0	490.1	0409	1.1878	1.1469
42	14.4	6.67	.1497	- 18.6	542.3	560.9	509.1	490.3	0386	1.1833	1.1448
43 44	15.4	6.52 6.38	.1531 .1564	-17.5 -16.4	542.6 542.8	560.0 559.2	508.2 507.3	490.5	0363 0341	1.1790	1.1427
45	17.4	6.25	0.1598	-15.3	543.1	558.4	506.4	490.9	-0.0319	1.1707	1.1388
46	18.4	6.12		-14.3	543.3	557.6	505.6	491.1	0297	1.1666	1.1369
47	19.4	6.00	.1665	-13.3	543.6	556.8	504.7	491.3	0276	1.1626	1.1350
48	20.3	5.88	.1698	-12.3	543.8	556.1	503.9	491.4	0255	1.1587	1.1332
49	21.2	5.77	.1732	-11.3	544.0	555-3	503.1	491.6	0235	1.1549	1.1314
50 51	22.I 23.0	5. 66 5.56	0.1765	- 10.3 - 9.3	544·3 544·5	554.6 553.9	502.3 501.5	491.8	-0.0216 0196	1.1512 1.1476	1.1297 1.1280
52 53 54	23.9 24.8 25.6	5.36 5.36 5.27	.1831 .1865 .1898	-9.3 -8.4 -7.5 -6.6	544.5 544.7 544.9 545.1	553.9 553.1 552.4 551.7	500.8 500.0 499.3	491.9 492.1 492.3 492.4	0190 0177 0158 0140	1.1470 1.1441 1.1406 1.1372	1.1264 1.1264 1.1247 1.1231

4		Volume,	Weight.	Heat co in B.		Laten in B		Energy	8 N S - 1	Entropy	
Pressure, lb.	Temp., °F.	cu. ft. per lb.	lb. per cu. ft.	of liquid	of vapor	of va- poriza- tion	Inter-	of vapor B.t.u.	of liquid	of vapor- ization	of vapor
р	t	۷"	1/V"	i'	i″	r	ρ	u″	s'	r/T	s"
55	26.4	Q	0. 70.07	-5.7	FAF 2	CCT T	498.6	492.6	-0.0122		1.1216
		5.18 5.09	0.1931	-4.8	545.3	551.1	497.8		.0103	1.1338	
56	27.3 28.1				545.5	550.4		492.7	.0085	1.1304	1.1201
57		5.01	.1997	-3.9	545.7	549.7	497.1	492.9		1.1271	1.1186
58 59	28.9 29.7	4.93 4.85	.2030	-3.0 -2.2	545.9 546.1	549.0 548.4	496.4	493.0	.0068 .0050	I.I239 I.I207	I.II7I I.II57
60	30.5	4 77	0.2096	-1.3	546.3	547.7	495.0	102.2		1.1175	
61	0 0	4.77 4.70	.2129	-0.5	546.5	547.0		493.3	-0.0033	10	1.1142
62	31.3 32.1	4.63	.2129	+0.3	546.7	546.4	494·3 493.6	493.5	+0.0001	1.1144	1.1128
	32.8		1	I.I	546.9	545.8	493.0	493.0	.0018	I.III3	1.1114 1.1101
63 64	32.0	4.56	.2195	1.9	547.1	545.1	492.9	493.7	.0013	1.1083	1.1087
65	24.2	1.10	0.0067	0.7	F 47 0		407.6	101.0	0.0077		-
66	34.3	4.42	0.2261	2.7	547.2	544.5 543.8	491.6	494.0	0.0051	1.1023	1.1074
67	35.1 35.8	4.36	.2294	3.5	547·4 547.6	543.0	490.9	494.1	.0007	1.0994	1.1001
68		4.30	.2327	4.3	547.0	543.2	490.3	494.3		1.0966	
69	36.5	4.24 4.18	.2359	5.1 5.8		542.0	489.0	494.4	.0097	1.0939	1.1036
09	37.2	4.10	.2392	5.0	547.9	542.0	409.0	494.5	.0113	1.0911	1.1024
70	37.9	4.12	0.2425	6.6	548.1	541.4	488.4	494.6	0.0128	1.0883	1.1011
71	38.6	4.07	.2458	7.4	548.2	540.8	487.7	494.8	.0143	1.0856	1.0999
72	39.3	4.02	.2490	8.1	548.4	540.2	487.1	494.9	.0158	1.0829	1.0987
73	40.0	3.96	.2523	8.9	548.5	539.6	486.5	495.0	.0173	1.0802	1.0975
74	40.7	3.91	.2556	9.6	548.7	539.0	485.9	495.1	.0187	1.0776	1.0963
75	41.3	3.86	0.2589	10.3	548.8	538.5	485.3	495.2	0.0201	1.0751	1.0952
76	42.0	3.81	.2622	II.O	549.0	537.9	484.7	495.3	.0215	1.0726	1.0941
77	42.6	3.77	.2655	11.7	549.1	537.4	484.1	495.4	.0229	1.0701	1.0930
78	43.3	3.72	.2688	12.4	549.3	536.8	483.5	495.6	.0243	1.0676	1.0919
79	43.9	3.68	.2721	13.1	549.4	536.3	482.9	495.7	.0257	1.0651	1.0908
80	44.5	3.63.	0.2753	13.8	549.5	535.8	482.3	495.8	0.0271	1.0627	1.0898
81	45.1	3.59	.2786	14.5	549.7	535.2	481.8	495.9	.0284	1.0603	1.0888
82	45.8	3.55	.2819	15.2	549.8	534.6	481.2	496.0	.0297	1.0580	1.0877
83	46.4	3.51	.2851	15.8	550.0	534.1	480.6	496.1	.0310	1.0557	1.0867
84	47.0	3.47	.2884	16.5	550.1	533.6	480.1	496.2	.0323	1.0534	1.0857
85	47.6	3.43	0.2917	17.2	550.2	533.1	479.5	496.3	0.0336	1.0511	1.0847
86	48.2	3.39	.2950	17.8	550.4	532.5	479.0	496.4	.0349	1.0488	1.0837
87	48.8	3.35	.2983	18.5	550.5	532.0	478.4	496.5	.0362	1.0465	1.0827
88	49.4	3.32	.3015	19.1	550.6	531.5	477.9	496.6	.0374	1.0443	1.0817
89	50.0	3.28	.3048	19.8	550.8	531.0	477.3	496.7	.0386	1.0421	1.0807
90	50.5	3.25	0.3081	20.4	550.9	530.5	476.8	496.8	0.0398	1.0400	1.0798
91	51.1	3.21	.3114	21.0	551.0	530.0	476.3	496.9	.0410	1.0379	1.0789
92	51.7	3.18	.3147	21.7	551.1	529.5	475.8	497.0	.0422	1.0358	1.0780
93	52.2	3.14	.3180	22.3	551.2	529.0	475.3	497.1	.0434	1.0337	1.0771
94	52.8	3.11	.3213	22.9	551.4	528.5	474.8	497.2	.0446	1.0316	1.0762
95	53.3	3.08	0.3246	23.5	551.5	528.0	474.3	497.3	0.0458	1.0295	1.0753
96	53.9	3.05	.3278	24.1	551.6	527.5	473.8	497.4	.0470	1.0274	1.0744
97	54.4	3.02	.3311	24.7	551.7	527.0	473.3	497.4	.0482	1.0254	1.0736
98	55.0	2.99	.3344	25.3	551.9	526.5	472.8	497.5	.0494	1.0234	1.0727
99	55-5	2.96	.3377	25.9	552.0	526.1	472.3	497.6	.0505	1.0214	1.0719
100	56.0	2.93	0.3409	26.5	552.1	525.6	471.8	497.7	0.0516	1.0195	1.0710
IOI	56.6	2.90	.3442	27.1	552.2	525.1	471.3	497.8	.0527	1.0175	1.0702
102	57.1	2.88	.3475	27.7	552.3	524.6	470.8	497.9	.0539	1.0155	1.0694
103	57.6	2.85	.3508	28.2	552.4	524.2	470.3	498.0	.0550	1.0136	1.0686
104	58.1	2.82	.3540	28.8	552.5	523.7	469.8	498.1	.0561	1.0117	1.0678
105	58.6	2.80	0.3573	29.3	552.6	523.3	469.3	498.1	0.0572	1.0098	1.0670
106	59.1	2.77	.3605	29.9	552.7	522.8	468.9	498.2	.0583	1.0079	1.0662
107	59.6	2.75	.3638	30.4	552.8	522.4	468.4	498.3	.0594	1.0061	1.0654
108	60.1	2.72	.3670	31.0	552.9	521.9	467.9	498.4	.0604	1.0043	1.0647
109	60.6	2.70	.3703	31.5	553.0	521.5	467.5	498.5	.0614	1.0025	1.0639
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											0.9
				Heat co		Laten in B	t heat		Е	ntropy	
Pressure, lb.	Temp., °F.	Volume, cu. ft. per lb.	Weight, lb. per cu. ft.	of liquid		of va-	Inter- nal	Energy of vapor B.t.u.	of liquid	of vapor- ization	of vapor
p	t		I/V"		i"		ρ	u″			
110	61.1	2.678	0.3735	32.I	553.I	521.0	467.0	498.6	0.0625	1.0006	1.0631
III	61.6	2.655	.3767	32.6	553.2	520.6	466.5	498.6	.0636	0.9988	1.0624
II2	62.1	2.632	.3799	33.2	553.3	520.I	466.1	498.7	.0646	.9970	1.0616
113	62.6	2.610	.3831	33.7	553.4	519.7	465.6	498.8	.0657	.9951	1.0608
114	63.1	2.589	.3863	34.3	553.5	519.2	465.1	498.9	.0668	.9933	1.0601
	03.1	2.309	.3003	34.3	333.3	319.2	403.1	490.9		.9933	110001
. 115	63.6	2.568	0.3895	34.8	553.6	518.8	464.6	499.0	0.0678	0.9916	1.0594
116	64.0	2.547	.3927	35.4	553.7	518.4	464.2	499.0	.0688	.9899	1.0587
117	64.5	2.526	.3959	35.9	553.8	517.9	463.8	499.I	.0697	.9883	1.0580
118	64.9	2.506	.399I	36.4	553.9	517.5	463.4	499.2	.0706	.9867	1.0573
119	65.4	2.486	.4023	36.9	554.0	517.1	462.9	499.3	.0716	.9850	1.0566
100	6 - 0										
120	65.8	2.466	0.4056	37.4	554.1	516.7	462.5	499.4	0.0725	0.9834	1.0559
121	66.3	2.446	.4089	37.9	554.2	516.3	462.1	499.4	.0735	.9817	1.0552
122	66.8	2.427	.4121	38.5	554.3	515.8	461.6	499.5	.0745	.9800	1.0545
123	67.2	2.409	.4153	39.0	554.4	515.4	461.2	499.6	.0754	.9784	1.0539
124	67.7	2.390	.4185	39.5	554.5	515.0	460.8	499.7	.0764	.9768	1.0532
125	68.1	2.371	0.4218	40.0	554.6	514.6	460.4	499.7	0.0773	0.9752	1.0525
126	68.6	2.353	.4250	40.5	554.7	514.1	459.9	499.7	.0783	.9736	1.0519
127	69.0	2.335	.4283	41.0	554.8	U .			.0792	.9730	1.0512
128	69.5					513.7	459.5	499.9	.0802	.9704	-
		2.317	.4316	41.5	554.9	513.3	459.0	500.0	.0802		1.0505
129	69.9	2.300	.4348	42.0	555.0	512.9	458.6	500.0	.0011	.9688	1.0499
130	70.4	2.283	0.4381	42.5	555.0	512.5	458.2	500.1	0.0820	0.9672	1.0492
131	70.8	2.266	.4414	43.0	555.1	512.1	457.8	500.2	.0829	.9656	1.0485
132	71.2	2.249	.4447	43.5	555.2	511.7	457.4	500.2	.0838	.9641	1.0479
133	71.6	2.233	.4479	44.0	555.3	511.3	457.0	500.3	.0847	.9626	1.0473
134	72.0	2.217	.4511	44.5	555.4	510.9	456.6	500.4	.0856	.9611	1.0467
									, i i i i i i i i i i i i i i i i i i i		
135	72.5	2.201	0.4544	45.0	555-5	510.5	456.2	500.5	0.0865	0.9596	1.0461
136	72.9	2.185	.4577	45.5	555.6	510.1	455.8	500.5	.0874	.9581	1.0455
137	73.3	2.169	.4610	46.0	555.6	509.7	455.4	500.6	.0883	.9566	1.0449
138	73.7	2.154	.4643	46.4	555.7	509.4	455.0	500.7	.0892	.9551	1.0443
139	74.1	2.139	.4675	46.9	555.8	509.0	454.6	500.7	.0901	.9536	1.0437
140											
	74.5	2.124	0.4707	47.3	555.9	508.6	454.2	500.8	0.0910	0.9521	1.0431
141	75.0	2.109	.4740	47.8	556.0	508.2	453.8	500.9	.0919	.9506	1.0425
142	75.4	2.095	.4772	48.3	556.1	507.8	453.4	500.9	.0928	.9491	1.0419
143	75.8	2.082	.4804	48.8	556.1	507.4	453.0	501.0	.0936	•9477	1.0413
144	76.2	2.069	.4835	49.2	556.2	507.0	452.6	501.1	.0944	.9463	1.0407
145	76.5	2.056	0.4867	49.6	556.3	506.7	452.2	501.1	0.0952	0.9450	1.0402
146	76.9	2.043	.4899	50.0	556.4	506.3	451.8	501.2	.0960	.9436	1.0396
147	77.3	2.029	.4931	50.5	556.4	506.0	451.4	501.2	.0968	.9423	1.0391
148	77.7	2.015	.4963	50.9	556.5	505.6	451.0	501.3	.0976	.9410	1.0386
140	78.1	2.002	.4903	51.4	556.6	505.2	450.7	501.4	.0985	.9396	1.0380
							10.1	0	=		
150	78.5	1.989	0.5028	51.8	556.7	504.8	450.3	501.4	0.0993	0.9382	1.0375
151	78.9	1.976	.5060	52.3	556.7	504.4	449.9	501.5	.1002	.9368	
152	79.3	1.964	.5092	52.7	556.8	504.0	449.5	501.6	.1010	.9354	1.0364
153	79.6	1.952	.5123	53.I	556.9	503.7	449.2	501.6	.1018	.9341	1.0359
154	80.0	1.940	.5155	53.6	557.0	503.3	448.8	501.7	.1026	.9328	1.0354
155	8			10.0							
155 156	80.4 80.8	1.928	0.5187	54.0 · 54.5	557.0	503.0	448.4	501.7 501.8	0.1034	0.9314	1.0348 1.0343
	81.2	1.916	.5220		557.1	502.6			.1042		1.0343
157		1.904	.5253	54.9	557.2	502.2	447.6	501.8	.1050	.9288	
158	81.5	1.892	.5286	55.3	557.2	501.9	447.3	501.9	.1058	.9275	1.0333
159	81.9	1.880	.5320	55.8	557.3	501.5	446.9	502.0	.1066	.9262	1.0328
160	82.3	1.868	0.5353	56.2	557.4	501.1	446.6	502.1	0.1074	0.9249	1.0323
161	82.7	1.857	.5386	56.7	557.5	500.7	446.2	502.1	.1082	.9236	1.0318
162	83.0	1.846	.5418	57.1	557.5	500.4	445.9	502.2	.1090	.9223	1.0313
163	83.4	1.835	.5450	57.5	557.6	500.0	445.5	502.2	.1098	.9210	1.0308
164	83.8	1.824	.5483	58.0	557.7	499.7	445.1	502.3	.1106	.9197	1.0303
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		Volume.	Weight,	Heat co in B.		Laten in B	t heat .t.u.	Energy		Entropy	
Pressure, lb.	Temp., °F.	cu. ft. per lb.	lb. per cu. ft.	of liquid	of vapor	of va- poriza- tion	Inter- nal	of vapor B.t.u.	of liquid	of vapor- ization	of vapor
р	t	۷"	I/V	i'	i"	r	ρ	u″	s'	r/T	s"
165	84.1	1.814	0.5515	58.4		499.4	444.8	502.3	0.1114	0.9184	1.0298
166	84.5	1.803	.5547	58.8	557.7 557.8	499.4	444.0	502.3	.1122	.9171	1.0293
167	84.9	1.793	.5578	59.3	557.9	498.6	444.0	502.5	.1130	.9158	1.0288
168	85.2	1.783	.5609	59.7	558.0	498.3	443.7	502.5	.1137	.9146	1.0283
169	85.6	1.773	.5641	60.1	558.0	497.9	443.3	502.6	.1145	.9133	1.0278
170	85.9	1.763	0.5673	60.5	558.1	497.6	443.0	502.7	0.1152	0.9121	1.0273
171	86.3	1.753	.5705	61.0	558.2	497.2	442.6	502.7	.1160	.9108	1.0268
172	86.6	1.743	.5738	61.4	558.2	496.9	442.3	502.8	.1167	.9096	1.0264
173	87.0	1.733	.5771	61.8	558.3	496.5	441.9	502.8	.1175	.9084	1.0259
174	87.3	1.723	.5804	62.2	558.4	496.2	441.6	502.9	.1182	.9072	1.0254
175	87.7	1.713	0.5836	62.6	558.4	495.8	441.2	502.9	0.1190	0.9060	1.0250
176	88.0	1.704	.5869	63.0	558.5	495.5	440.9	503.0	.1197	.9048	1.0245
177	88.4	1.694	.5902	63.4	558.6	495.1	440.5	503.0	.1204	.9037	1.0241
178	88.7	1.685	.5935	63.8	558.6	494.8	440.2	503.I	.1211	.9025	1.0236
179	89.0	1.676	.5967	64.2	558.7	494.5	439.9	503.1	.1218	.9013	1.0232
180	89.4	1.666	0.6000	64.6	558.8	494.1	439.5	503.2	0.1226	0.9001	1.0227
181	89.7	1.656	.6034	65.0	558.8	493.8	439.2	503.3	.1233	.8989	1.0223
182	90.1	1.647	.6068	65.4	558.9	493.4	438.8	503.3	.1241	.8977	1.0218
183	90.4	1.639	.6102	65.8	558.9	493.1	438.5	503.4	.1248	.8966	1.0214
184	90.7	1.630	.6135	66.2	559.0	492.8	438.2	503.4	.1254	.8955	1.0210
185	91.1	1.621	0.6168	66.6	559.1	492.4	437.8	503.5	0.1261	0.8944	1.0205
186	91.4	1.613	.6200	67.0	559.1	492.1	437.5	503.5	.1268	.8933	1.0201
187	91.7	1.605	.6233	67.4	559.2	491.8	437.2	503.6	.1274	.8921	1.0196
188	92.1	1.596	.6266	67.8	559.3	491.5	436.8	503.6	.1283	.8909	1.0192
189	92.4	1.588	.6298	68.2	559.3	491.2	436.5	503.7	.1289	.8898	1.0187
190	92.7	1.580	0.6330	68.6	559.4	490.9	436.2	503.7	0.1296	0.8887	1.0183
191	93.0	1.572	.6362	68.9	559.4	490.5	435.9	503.8	.1303	.8876	1.0179
192	93.4	1.563	.6395	69.3	559.5	490.1	435.5	503.9	.1310	.8865	1.0174
193	93.7	1.555	.6428	69.7	559.6	489.8	435.2	503.9	.1317	.8854	1.0170
194	94.0	1.548	.6460	70.1	559.6	489.5	434.9	504.0	.1323	.8843	1.0166
195	94.3	1.541	0.649	70.5	559.7	489.2	434.5	504.0	0.1329	0.8833	1.0162
196	94.6	1.533	.652	70.8	559.7	488.9	434.2	504.1	.1336	.8822	1.0158
197	94.9	1.526	.655	71.2	559.8	488.6	433.9	504.1	.1342	.8812	1.0154
198	95.2	1.519	.658	71.6	559.8	488.3	433.6	504.2	.1349	.8801	1.0150
199	95.5	1.512	.661	71.9	559.9	488.0	433.3	504.2	.1356	.8790	1.0146
200	95.9	1.504	0.665	72.3	560.0	487.6	433.0	504.3	0.1363	0.8779	1.0142
202	96.5	1.489	.672	73.1	560.1	487.0	432.3	504.4	.1376	.8758	1.0134
204 206	97.1	1.474	.679	73.8	560.2	486.4	431.7	504.5	.1389	.8737	1.0126
200	97.7 98.3	1.460 1.447	.685 .691	74.6 75.3	560.3 560.4	485.8 485.1	431.1	504.6 504.7	.1402 .1414	.8716	1.0118
010					• .						
210	98.9	1.433	0.698	76.0	560.5	484.5	429.8	504.8	0.1427	0.8676	1.0103
212 214	99.5 100.1	1.419	.705	76.7	560.6 560.7	483.9 483.3	429.2 428.6	504.9	.1440	.8656	1.0095 1.0088
214	100.1	1.406 1.394	.711	77.4 78.1	560.8	403.3	428.0	505.0	.1452 .1464	.8616	1.0080
218	101.2	1.394	.717 .724	78.8	560.9	482.1	427.4	505.0 505.1	.1404	.8597	1.0073
220	101.8	TARA		70 7	561.0	481.5	426.8	FOF	0 7 . 99	0.8578	1.0066
222	101.8	1.370 1.358	0.730 .736	79.5 80.2	501.0	480.9	420.8	505.2 505.3	0.1488	.8559	1.0000
224	103.0	1.346	.743	80.9	561.2	480.3	425.6	505.4	.1512	.8540	1.0052
226	103.5	1.335	.749	81.6	561.3	479.7	425.1	505.5	.1524	.8521	1.0045
228	104.1	1.323	.756	82.3	561.4	479.1	424.5	505.6	.1537	.8501	1.0038
230	104.7	1.312	0.762	83.0	561.5	478.5	423.9	505.7	0.1549	0.8482	1.0031
232	105.2	1.301	.769	83.7	561.6	477.9	423.3	505.8	.1561	.8463	1.0024
234	105.8	1.290	.775	84.4	561.7	477.3	422.7	505.9	.1573	.8444	1.0017
236	106.3	1.279	.782	85.0	561.8	476.8	422.2	505.9	.1585	.8426	1.0011
238	106.9	1.268	.789	85.7	561.9	476.2	421.6	506.0	.1597	.8407	1.0004
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		Volume,	Weight,	Heat o		Laten in B	t heat .t.u.	Energy	I	Intropy	
Pressure,	Temp., °F.	cu. ft.	lb. per		1	of va-	·	of vapor			1
lb.	° F.	per lb.	cu. ft.	of liquid	of vapor		Inter- nal	B.t.u.	of liquid	of vapor- ization	of vapor
р	t	v''	I/V'	i'	i"	r	ρ,	u"	5'	r/T	5″
240	107.4	1.258	0.795	86.4	562.0	475.6	421.0	506.I	0.1609	0.8389	0.9998
242	108.0	1.248	.801	87.I	562.1	475.0	420.4	506.2	.1621	.8371	.9991
244	108.5	1.238	.808	87.7	562.2	474.5	419.8	506.3	.1632	.8353	.9985
246	109.0	1.228	.814	88.4	562.3	473.9	419.3	506.4	.1643	.8335	.9979
248	109.6	1.218	.821	89.1	562.4	473.3	418.7	506.5	.1655	.8317	.9972
250	110.1	1.208	0.828	89.7	562.5	472.8	418.1	506.6	0.1666	0.8300	0.9966
252	110.6	1.199	.834	90.4	562.6	472.2	417.6	506.6	.1677	.8283	.9960
254	III.I	1.189	.841	91.0	562.6	471.6	417.1	506.7	.1688	.8266	.9954
256	111.7	1.179	.848	91.7	562.7	471.0	416.5	506.8	.1700	.8248	.9947
258	·II2.2	1.170	.855	92.3	562.8	470.5	415.9	506.9	.1711	.8231	·9941
260	112.7	1.161	0.861	93.0	562.9	470.0	415.4	507.0	0.1722	0.8213	0.9935
262	113.2	1.153	.867	93.6	563.0	469.4	414.8	507.I	.1733	.8196	.9929
264	113.7	1.144	.874	94.2	563.1	468.9	414.3	507.2	.1744	.8179	.9923
266	114.2	1.136	.880	94.8	563.2	468.3	413.8	507.2	.1755	.8162	.9917
268	114.7	1.127	.887	95.5	563.3	467.8	413.2	507.3	.1766	.8145	.9911
270	115.2	1.119	0.894	96.1	563.4	467.2	412.7	507.4	0.1777	0.8129	0.9906
272	115.7	1.110	.901	96.7	563.4	466.7	412.2	507.5	.1787	.8113	.9900
274	116.2	1.102	.908	97.4	563.5	466.1	411.7	507.6	.1798	.8096	.9894
276	116.7	1.094	.914	98.0	563.6	465.6	411.2	507.7	.1809	.8080	.9888
278	117.1	1.087	.920	98.6	563.7	465.1	410.7	507.7	.1819	.8064	.9883
280	117.6	1.079	0.927	99.2	563.8	464.6	410.2	507.8	0.1829	0.8048	0.9878
282	118.1	1.071	.934	99.8	563.9	464.0	409.6	507.9	.1840	.8032	.9872
284	118.6	1.063	.941	100.4	563.9	463.5	409.1	508.0	.1850	.8016	.9867
286	119.1	1.056	.947	IOI.I	564.0	462.9	408.5	508.1	.1861	.8000	.9861
288	119.6	1.049	.953	101.7	564.1	462.4	408.0	508.2	.1872	.7984	.9856
290	120.0	1.042	0.960	102.3	564.2	461.9	407.5	508.2	0.1882	0.7969	0.9851
292	120.5	1.035	.966	102.9	564.3	461.4	407.0	508.3	.1892	.7954	.9846
294	120.9	1.028	.973	103.5	564.3	460.9	406.5	508.4	.1902	.7939	.9841
296	121.4	1.021	.980	104.1	564.4	460.4	406.0	508.5	.1912 .	.7924	.9836
298	121.9	1.014	.986	104.7	564.5	459.8	405.5	508.6	.1922	.7908	.9830
300	122.4	1.007	0.993	105.3	564.6	459.3	405.0	508.7	0.1932	0.7893	0.9825
310	124.6	0.975	1.026	108.2	565.0	456.8	402.5	509.0	.1981	.7820	.9801
320	126.8	.945	1.059	III.I	565.3	454.3	400.0	509.4	.2030	.7747	.9777
330	129.0	.916	1.092	114.0	565.7	451.8	397.6	509.8	.2078	.7676	.9754
340	131.1	.889	1.125	116.8	566.1	449.3	395.2	510.1	.2125	.7606	.9731
350	133.2	0.863	1.159	119.6	566.4	446.8	392.8	510.5	0.2171	0.7538	0.9709
360	135.2	.838	1.193	122.3	566.7	444.4	390.5	510.8	.2216	.7472	.9688
370	137.2	.815	1.227	125.0	567.0	442.0	388.2	511.2	.2261	.7407	.9668
380	139.2	.793	1.261	127.7	567.3	439.6	385.9	511.5	.2305	.7343	.9648
390	141.1	.772	1.295	130.3	567.6	437.3	383.7	511.9	.2348	.7281	.9629
400	142.9	0.752	1.330	132.9	567.9	435.0	381.5	512.2	0.2390	0.7220	0.9610
410	144.8	.733	1.364	135.5	568.2	432.7	379.3	512.5	.2431	.7161	.9592
420	146.6	.715	1.399	138.1	568.5	430.4	377.2	512.8	.2472	.7102	·9574
430	148.4	.698	1.434	140.6	568.8	428.2	375.0	513.2	.2513	.7044	·9557
440	150.1	.681	1.469	143.1	569.0	426.0	372.9		.2553	.6987	.9540
450	151.8	0.665	1.504	145.6	569.3	423.8	370.8	513.8	0.2593	0.6931	0.9524
460	153.5	.650	1.539	148.0	569.6	421.6	368.7	514.1	.2632	.6876	.9508
470	155.2	.636	1.574	150.4	569.8	419.4	366.6	514.4	.2671	.6822	•9493
480	156.9	.622	1.608	152.8	570.1	417.2	364.5	514.7	.2710	.6768	.9478
490	158.5	.609	1.642	155.2	570.3	415.0	362.5	515.0	.2748	.6715	.9464
500	160.0	0.597	1.675	157.5	570.5	413.0	360.5		0.2786	0.6664	0.9450
525	163.9	.566	1.765	163.4	571.1	407.7	355.6	516.0	.2876	.6540	.9416
550	167.6	.539	1.855	169.2	571.7	402.5	350.8	516.7	.2965	.6419	.9384
575	171.2	.514	1.946	174.8	572.2	397.4	346.0	517.4	.3052	.6301	•9353
600	174.7	0.491	2.038	180.4	572.7	392.3	341.3	518.1	0.3138	0.6186	
625	178.1	.469	2.132	185.9	573.I	387.2	336.6	518.8	.3223	.6073	.9296
650	181.4	•449	2.227	191.4	573.6		332.0	519.5	.3307	.5963	.9270
675	184.6	.431	2.321	196.8	574.0	377.2	327.4	520.1	.3389	.5856	.9245
700	187.7	•414	2.416	202.1	574.4	372.2	322.8	520.7	.3469	.5752	.9221
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Entropy	1			Laten in B		Heat co in B.				
a, a, b, b, b, b, b, b, c, t,				of vapor	Tatos	of va-			lb. per	cu. ft.	lb. per	Temp.,
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	cf vapor		of liquid	B.t.u.		poriza-	of vapor	of liquid	cu. it.	per lb.	sq. in.	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	s"	r/T	s'	u"	ρ	r	i″	i'	1/v"		p	t
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.2965	1.4866	-0.1901	476.5	562.2	608.9	523.3	-85.7	0.02940	34.01	7.43	-50
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1.2937							-84.7	.03032			-49
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1.2909		1850		560.6	607.5		-83.6	.03125	32.00		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1.2881		1825		559.8			-82.6	.03218	31.07		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1.2854		1801	477.4	559.0	606.1	524.6	-81.5	.03312	30.19	8.43	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1.2826	1.4602		477.6	558.2		524.9					-45
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.2798			477.9								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1.2771											
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1.2744											
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.2717	1.4395	1078	478.0	555.0	002.0	520.2	-70.4	.03820	20.18	9.82	-41
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.2691								000			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.2638											- 39
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2612					Ū						
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	******	**333		331.0					22.70		
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.2450	1.3092	1434	401.0		595.4	529.4		.05033	19.07	13.10	-31
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2433	1.3843			546.2	594.7	529.8				13.56	- 30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2408					594.0						
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2359											
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2334	1.3048	1314	482.1	542.9	591.8	531.0	-00.8	.05747	17.40	15.18	-20
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2310											
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2286			482.5								
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.1901	1.2942	0901	405.3		500.0		-45.2	.0839	11.92	22.71	-11
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.1959						535.7					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.1936					579.1	536.0					- 9
- 6 25.80 10.57 .0946 -40.0 536.9 576.8 526.4 486.3 0847 1.2717	1.1914						536.3					
	1.1892											
	1.1870	1.2717	0847	480.3	520.4	570.8	530.9	-40.0	.0940	10.57	25.80	- 6
	1.1848	1.2672	-0.0824	486.6	525.6	576.1	537.1	-38.9	0.0969	10.32	26.46	- 5
-4 27.13 10.08 .0992 -37.9 537.4 575.3 524.7 486.8 $-$.0801 1.2627	1.1826											
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0 29.95 9.19 0.1089 -33.7 538.5 572.2 521.4 487.6 -0.0709 1.2450 1 30.69 8.98 .1114 -32.6 538.8 571.4 520.5 487.80686 1.2406	1.1741 1.1720						530.5		~			
I 30.69 8.98 .1114 -32.6 538.8 571.4 520.5 487.8 $-$.0686 1.2406 2 31.44 8.78 .1139 -31.6 539.1 570.7 519.7 488.0 $-$.0663 1.2363	1.1720					v						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.1679											
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		-,-		1	0	5.5	005.0	5.5	5-	00	0	7

				Heat of in B.		Laten in B	t heat .t.u.			Entropy	
Temp., • F.	Pressure, lb. per sq. in,	Volume, cu. ft. per lb.	Weight, 1b. per cu. ft.	of liquid	of vapor	of va- poriza-	Inter- nal	Energy of vapor B.t.u.	of liquid	of vapor-	of vapor
						tion					
t	р 	V"	I/V"	i'	i"	r	р°	u"	s'	r/T	8″
5	33.79	8.20	0.1219	-28.4	539.9	568.3	517.1	488.6	-0.0595	I.2232	1.1637
6	34.60	8.02	.1247	-27.4	540.1	567.5	516.3	488.7	0572	1.2189	1.1616
7	35.43	7.84	.1275	- 26.3	540.4	566.7	515.4	488.9	0550	1.2146	1.1596
8	36.28	7.67	.1304	-25.3	540.7	565.9	514.6	489.I	0527	1.2103	1.1576
9	37.14	7.50	.1333	-24.2	540.9	565.2	513.7	489.3	0505	1.2060	1.1555
10	• 38.02	7.34	0.1363	-23.2	541.2	564.4	512.9	489.5	-0.0483	1.2018	1.1535
II	38.92	7.18	.1393	-22.I	541.4	563.6	512.0	489.7	0461	1.1976	1.1515
12	39.84	7.02	.1424	-21.1	541.7	562.8	511.2	489.9	0438	1.1933	1.1495
13	40.77	6.87	.1455	- 20.0	542.0	562.0	510.3	490.1	0416	1.1891	1.1475
14	41.71	6.72	.1487	-19.0	542.2	561.2	509.4	490.3	0394	1.1849	1.1455
15	42.67	6.583	0.1519	- 17.9	542.5	560.4	508.6	490.5	-0.0372	1.1807	1.1435
16	43.65	6.444	.1552	- 16.8	542.7	559.6	507.7	490.6	0350	1.1766	1.1416
17	44.65	6.308	.1585	-15.8	543.0	558.8	506.8	490.8	0328	1.1724	1.1396
18	45.67	6.176	.1619	-14.7	543.2	558.0	506.0	491.0	0306	1.1683	1.1377
19	46.70	6.047	.1654	-13.6	543.5	557.1	505.1	491.2	0284	1.1641	1.1357
20	47.75	5.920	0.1689	-12.6	543.7	556.3	504.2	491.4	-0.0262	1.1600	1.1338
21	48.82	5.796	.1725	-11.5	544.0	555.5	503.3	491.6	0240	1.1559	1.1319
22	49.91	5.676	.1762	- 10.4	544.2	554.7	502.4	491.8	0218	1.1517	1.1299
23	51.02	5.560	.1799	- 9.4	544.5	553.9	501.6	491.9	— .01 96	1.1476	1.1280
24	52.15	5.447	.1836	- 8.3	544.7	553.1	500.7	492.1	0174	1.1436	1.1261
25	53.30	5.336	0.1874	- 7.3	545.0	552.2	499.8	492.3	-0.0153	1.1396	1.1243
26	54.47	5.228	.1913	- 6.2	545.2	551.4	498.9	492.5	0131	1.1355	1.1224
27	55.66	5.122	.1953	- 5.1	545.5	550.6	498.1	492.7	0109	1.1315	1.1206
28	56.87	5.019	.1993	- 4.I	545.7	549.8	497.2	492.9	0087	1.1275	1.1188
29	58.10	4.918	.2034	- 3.0	546.0	549.0	496.3	493.0	0066	1.1235	1.1169
30	59.35	4.820	0.2075	- 1.9	546.2	548.1	495.4	493.2	-0.0044	1.1195	1.1151
31	60.62	4.724	.2117	- 0.8	546.4	547.3	494.5	493.4	0022	1.1155	1.1133
32	61.91	4.631	.2159	+ 0.3	546.7	546.5	493.6	493.6	.0000	1.1115	1.1115
33	63.22	4.540	.2203	+ 1.3	546.9	545.6	492.8	493.8	+ .0021	1.1076	1.1098
34	64.55	4.451	.2247	+ 2.4	547.1	544.8	491.9	493.9	+ .0043	1.1037	1.1080
35	65.91	4.364	0.2292	3.5	547.4	543.9	491.0	494.1	0.0065	1.0997	1.1062
36	67.29	4.279	.2337	4.6	547.6	543.I	490.1	494.3	.0087	1.0958	1.1044
37	68.69	4.196	.2384	5.6	547.8	542.2	489.2	494.5	.0108	1.0919	1.1027
38	70.11	4.115	.243I	6.7	548.1	541.4	488.3	494.6	.0130	1.0880	1.1010
39	71.56	4.036	.2478	7.8	548.3	540.5	487.4	494.8	.0151	1.0841	1.0992
40	73.03	3.959	0.2526	8.9	548.5	539.7	486.5	495.0	0.0173	1.0802	1.0975
41	74.53	3.884	.2575	10.0	548.8	538.8	485.5	495.2	.0194	1.0764	1.0958
42	76.05	3.810	.2625	II.I	549.0	537.9	484.6	495.3	.0216	1.0725	1.0941
43 44	77.59 79.16	3.738 3.668	.2675	12.2 13.3	549.2 549.4	537.1 536.2	483.7 482.8	495.5 495.7	.0237 .0259	1.0687	1.0924
		, in the second s									
45	80.75	3.599	0.2779	14.3	549.7	535.3	481.9	495.9	0.0280	1.0610	1.0890
46	82.37	3.532	.2832	15.4	549.9	534.5	481.0	496.0	.0301	1.0572	1.0873
47	84.01	3.466	.2885	16.5	550.1	533.6	480.1	496.2	.0323	1.0534	1.0857
48	85.68	3.402	.2940	17.6	550.3	532.7	479.2	496.4	.0344	1.0496	1.0840
49	87.37	3.339	.2995	18.7	550.6	531.8	478.3	496.5	.0366	1.0458	1.0823
50	89.09	3.278	0.3051	19.8	550.8	531.0	477.3	496.7	0.0387	1.0420	1.0807
51	90.83	3.219	.3107	20.9	551.0	530.1	476.4	496.9	.0408	1.0383	1.0791
52	92.59	3.161	.3164	22.0	551.2	529.2	475.5	497.0	.0430	1.0345	1.0775
53 54	94.38 96.19	3.104 3.048	.3222 .3281	23.I 24.2	551.4	528.3 527.4	474.6 473.6	497.2 497.4	.0451	1.0307	1.0758
55 56	98.0 99.9	2.992 2.938	0.3342	25.3 26.4	551.9 552.1	526.5 525.6	472.7 471.8	497.5 497.7	0.0494 .0516	1.0232	1.0726
57	101.8	2.885	.3467	27.5	552.3	525.0	470.8	497.9	.0537	1.0195	1.0695
58	103.7	2.833	.3530	28.7	552.5	523.8	469.9	497.9	.0559	1.0130	1.0679
59	105.7	2.783	•3594	29.8	552.7	522.9	469.0	498.2	.0580	1.0084	1.0664
			-0004	-9.0	334.1	2-4.9	T-3.2	730.2			

				Heat co			t heat			Entropy	
Tomo	Pressure,	Volume,	Weight,	in B.	t.u.	in E	3.tu.	Energy		- ANOPY	
°F.	lb. per sq. in.	cu. ft. per lb.	lb. per cu. ft.	of liquid	of vapor	of va- poriza- tion	Inter- nal	of vapor B.t.u.	of liquid	of vapor- ization	of vapor
t	р	⊽″	1/ V ″	i'	i'	r	ρ	u"	s'	r/T	s"
60			0.06.79				468.0		0.0600		6 . 9
	107.7	2.734 2.686	0.3658	30.9	552.9	522.0		498.4	0.0601	1.0047	1.0648
61	109.7		.3723	32.0	553.1	521.1	467.1	498.5	.0623	1.0010	1.0633
62	111.7	2.639	.3790	33.1	553.3	520.2	466.1	498.7	.0644	0.9974	1.0618
63	113.8	2.592	.3858	34.2	553.5	519.3	465.2	498.9	.0665	.9938	1.0603
64	115.9	2.547	-3927	35.3	553-7	518.4	464.2	499.0	.0687	.9901	1.0588
65	118.1	2.503	0.3996	36.5	554.0	517.5	463.3	499.2	0.0708	0.9864	1.0572
66	120.3	2.460	.4066	37.6	554.2	516.5	462.3	499.4	.0729	.9828	1.0557
67	122.5	2.418	.4136	38.7	554.4	515.6	461.4	499.5	.0750	.9792	1.0542
68	124.7	2.377	.4207	39.9	554.6	514.7	460.4	499.7	.0771	.9756	1.0527
69	126.9	2.336	.4280	41.0	554.8	513.7	459.5	499.9	.0792	.9720	1.0512
70	129.2	2.296	0.4354	42.1	555.0	512.8	458.5	500.0	0.0813	0.9684	1.0497
71	131.5	2.257	.4430	43.3	555.2	511.9	457.6	500.2	.0834	.9648	1.0482
72	133.9	2.219	.4506	44.4	555.4	511.0	456.6	500.4	.0855	.9613	1.0468
73	136.3	2.182	.4583	45.5	555.6	510.0	455.7	500.5	.0876	.9577	1.0453
74	138.7	2.145	.4662	46.7	555.8	509.1	454.7	500.7	.0898	.9541	1.0439
75	141.1	2.109	0.4742	47.8	556.0	508.1	453.7	500.9	0.0919	0.9505	1.0424
76	143.6	2.074	.4823	49.0	556.2	507.2	452.7	501.0	.0940	.9470	1.0410
77	146.1	2.039	.4905	50.1	556.4	506.2	451.7	501.2	.0961	.9435	1.0396
78	148.7	2.005	.4988	51.3.	556.6	505.3	450.8	501.3	.0983	.9399	1.0382
79	151.3	1.972	.5071	52.4	556.8	504.3	449.8	501.5	.1004	.9364	1.0368
80	153.9	1.940	0.5155	53.6	557.0	503.4	448.8	501.7	0.1025	0.9329	1.0354
81	156.5	1.908	.5241	54.8	557.I	502.4	447.8	501.8	.1047	.9294	1.0340
82	159.2	1.877	.5328	55.9	557.3	501.4	446.9	502.0	.1068	.9259	1.0327
83	161.9	I.847	.5416	57.1	557.5	500.5	445.9	502.2	.1090	.9223	1.0313
84	164.6	1.817	.5504	58.3	557.7	499.5	444.9	502.3	.1111	.9188	1.0299
85	167.4	1.788	0.5594	59.4	557.9	498.5	443.9	502.5	0.1132	0.9154	1.0286
86	170.2	1.759	.5685	60.6	558.1	497.5	442.9	502.7	.1153	.9119	1.0272
87	173.0	1.731	.5777	61.8	558.3	496.5	441.9	502.8	.1175		1.0259
88	175.9	1.704	.5870	63.0	558.5	495.5	440.9	503.0	.1196	.9050	1.0246
89	178.8	1.677	.5964	64.2	558.7	494.5	439.9	503.1	.1217	.9015	1.0232
90	181.8	1.650	0.6060	65.3	558.9	493.5	438.9	503.3	0.1238	0.8981	1.0219
91	184.8	1.624	.6158	66.5	559.1	492.5	437.9	503.5	.1259	.8946	1.0206
92	187.8	1.598	.6258	67.7	559.2	491.5	436.9	503.6	.1281	.8911	1.0192
93	190.9	1.573	.6358	68.9	559.4	490.5	435.9	503.8	.1302	.8877	1.0179
94	194.1	1.548	.6460	70.1	559.6	489.5	434.9	504.0	.1323	.8843	1.0166
95	197.3	1.524	0.656	71.3	559.8	488.5	433.9	504.1	0.1344	0.8809	1.0153
96	200.5	1.500	.667	72.5	560.0	487.5	432.8	504.3	.1365	.8775	1.0140
97	203.8	1.477	.677	73.7	560.2	486.5	431.8	504.5	.1387	.8741	1.0128
98	207.1	1.454	.688	74.9	560.3	485.4	430.8	504.6	.1408	.8707	1.0115
99	210.4	1.431	.699	76.1	560.5	484.4	429.8	504.8	.1429	.8673	1.0102
100	213.8	1.408	0.710	77.3	560.7	483.4	428.7	504.9	0.1450	0.8639	1.0089
IOI	217.2	1:386	.721	78.5	560.9	482.3	427.7	505.1	.1471	.8605	1.0077
102	220.7	1.365	.732	79.7	561.1	481.3	426.7	505.2	.1493	.8571	1.0064
103	224.2	1.345	.743	80.9	561.2	480.3	425.6	505.4	.1514	.8538	1.0052
104	227.7	1.325	.755	82.2	561.4	479.2	424.6	505.6	.1535	.8504	1.0040
105	231.2	1.305	0.766	83.4	561.6	478.2	423.5	505.7	0.1557	0.8470	1.0027
106	234.8	1.285	.778	84.6	561.8	477.1	422.5	505.9	.1578	.8437	1.0015
107	238.4	1.266	.790	85.8	561.9	476.1	421.4	506.1	.1599	.8404	1.0003
108	242.1	1.247	.802	87.1	562.1	475.0	420.4	506.2	.1621	.8370	0.9991
109	245.8	1.228	.814	88.3	562.3	474.0	419.3	506.4	.1642	.8337	0.9979
110	249.6	1.210	0.826	89.6	562.5	472.9	418.3	506.6	0.1664	0.8303	0.9967
III	253.4	1.192	.839	90.8	562.6	471.8	417.2	506.7	.1686	.8269	-9955
II2	257.3	I.174	.852	92.1	562.8	470.7	416.1	506.9	.1707	.8236	.9943
113	261.2	1.156	.865	93.3	563.0	469.6	415.1	507.I	.1729	.8203	.9931
114	265.2	1.139	.878	94.6	563.1	468.5	414.0	507.2	.1750	.8170	.9920
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	-			Heat co in B.			t heat .t.u.		H	Entropy	
Temp.,	Pressure, lb. per	Volume, cu. ft.	Weight, lb. per			-6	1	Energy of vapor		1	
° F.	sq. in.	per lb.	cu. ft.	of liquid	of vapor	of va- poriza- tion	Inter- nal	B.t.u.	of liquid	of vapor- ization	of vapor
t	р	۳.	1/ 7 "	i′	i″	r	P°	u"	S	r/T	s ″
115	269.2	1.122	0.891	95.9	563.3	467.4	412.9	507.4	0.1772	0.8136	0.9908
116	273.3	1.105	.905	97.1	563.5	466.3	411.9	507.6	.1794	.8103	.9897
II7	277.4	1.088	.919	98.4	563.7	465.2	410.8	507.7	.1816	.8069	.9885
118	281.5	I.072	.933	99.7	563.8	464.1	409.7	507.9	.1838	.8036	.9874
119	285.7	1.057	.946	101.0	564.0	463.0	408.6	508.1	.1859	.8003	.9862
120	289.9	1.042	0.960	102.2	564.2	461.9	407.5	508.2	0.1881	0.7970	0.9851
I2I	294.2	I.027	0.974	103.5	564.4	460.8	406.4	508.4	.1903	.7937	.9840
122	298.5	1.012	0.988	104.8	564.5	459.7	405.3	508.6	.1925	.7904	.9829
123	302.8	0.998	1.002	106.1	564.7	458.6	404.2	508.8	.1947	.7871	.9818
124	307.2	0.984	1.016	107.4	564.9	457.4	403.I	508.9	.1968	.7839	.9807
125	311.6	0.970	1.031	108.7	565.0	456.3	402.0	509.1	0.1990	0.7806	0.9796
126	316.1	.956	1.046	110.0	565.2	455.2	400.9	509.3	.2012	.7773	.9785
127	320.6	.942	1.061	111.3	565.4	454.0	399.8	509.4	.2034	.7740	·9774
128	325.2	.929	1.076	112.6	565.5	452.8	398.7	509.6	.2056	.7708	.9764
129	329.9	.916	1.092	114.0	565.7	451.7	397.6	509.8	.2078	.7675	·9753
130	334.6	0.903	1.108	115.3	565.9	450.6	396.4	510.0	0.2100	0.7642	0.9742
131	339.4	.890	1.124	116.6	566.0	449.4	395.3	510.2	.2122	.7610	.9732
132	344.2	.877	1.140	118.0	566.2	448.2	394.2	510.3	.2145	.7577	.9721
133	349.0	.865	1.156	119.3	566.4	447.0	393.0	510.5	.2167	.7544	.9711
134	353.9	.853	1.172	120.7	566.5	445.8	391.9	510.7	.2189	.7512	.9701
135	358.8	0.841	1.189	122.0	566.7	444.7	390.7	510.8	0.2211	0.7479	0.9690
136	363.8	.829	1.206	123.4	566.8	443.5	389.6	511.0	.2234	.7446	.9680
137	368.9	.817	1.224	124.7	567.0	442.3	388.4	511.2	.2256	.7414	.9670
138	374.0	.806	1.241	126.1	567.2	441.1	387.3	511.3	.2278	.7381	.9659
139	379.2	•795	1.258	127.4	567.3	439.9	386.1	511.5	.2301	.7348	.9649
140	384.4	0.784	1.275	128.8	567.5	438.6	384.9	511.7	0.2323	0.7316	0.9639
141	389.7	.773	1.293	130.2	567.6	437.4	383.8	511.8	.2346	.7283	.9629
142	395.0	.762	1.312	131.6	567.8	436.2	382.6	512.0	.2368	.7251	.9619
143	400.4	.751	1.331	133.0	567.9	435.0	381.4	512.2	.2391	.7218	.9609
144	405.8	.741	1.349	134.4	568.1	433.7	380.2	512.4	.2413	.7186	.9599
145	411.3	0.731	1.368	135.8	568.3	432.5	379.0	512.6	0.2436	0.7154	0.9589
146	416.8	.721	1.387	137.2	568.4	431.2	377.8	512.7	.2459	.7121	.9579
147	422.4	.711	1.406	138.6	568.6	430.0	376.6	512.9	.2481	.7089	.9570
148	428.0	.701	1.425	140.0	568.7	428.7	375.4	513.1	.2504	.7056	.9560
149	433.7	.692	1.445	141.5	568.9	427.4	374.2	513.3	.2527	.7024	.9551
. 150	439.5	0.683	1.465	142.9	569.0	426.2	373.0	513.4	0.2550	0.6991	0.9541
155	469.1	.638	1.567	150.1	569.8	419.7	366.9	514.4	.2666	.6829	.9495
160	500.1	.597	1.676	157.5	570.5	413.0	360.6	515.3	. 2784	.6666	.9450
165	532.6	.558	1.792	165.1	571.3	406.2	354.2	516.2	.2903	.6503	.9406
170	566.6	.522	1.915	172.9	572.0	399.1	347.6	517.2	.3023	.6340	.9363
175	602.2	0.489	2.045	180.9	572.7	391.8	340.8	518.2	0.3146	0.6175	0.9321
180	639.5	.458	2.183	189.1	573.4	384.3	333.9	519.2	.3271	.6010	.9281
/185	678.4	.429	2.330	197.5	574.0	376.6	326.8	520.2	.3399	.5843	.9242
190	719.0	.402	2.488	206.2	574.7	368.5	319.4	521.2	.3530	.5674	.9204
195	761.4	.376	2.660	215.2	575.4	360.2	311.8	522.3	.3664	.5503	.9167

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Pres- sure		15 [-26.4]			16 [-24.1]			17 [-21.9]			18 [-19.8]	
Temp	v	s	i	v	s	i	v	s	i	v	s	i
Sat.	17.6	1.234	530.9	16.6	I.220	531.6	15.6	I.224	532.2	14.8	1.219	532.8
- 20	17.9	1.243	534.4	16.8	1.234	533.8	15.7	1.226	533.3			55210
- 10	17.9	1.255	539.9	17.3	1.246	539.3	16.2	1.238	538.9	15.3	1.231	538.4
0 10	18.9 19.3	1.267 1.278	545.2 550.5	17.7 18.1	1.258 1.270	544.7 550.1	16.6 17.0	1.250 1.262	544-3 549-7	15.7 16.1	1.243 1.255	543.9 549.3
20	19.8 20.2	1.289	555.7 560.9	18.6 19.0	1.281 1.292	555-4 560.6	17.4 17.8	1.273 1.284	555.0	16.4 16.8	1.266	554.7
30 40	20.2	1.300 1.310	566.0	19.0	1.302	565.8	17.0	1.295	560.3 565.5	17.2	1.277 1.288	560.0 565.2
50	21.1	1.320	571.1 576.2	19.8	1.312	570.9	18.6	1.305	570.6	17.6 18.0	1.298	570.3
60 70	21.5 22.0	1.330 1.340	570.2	20.2 20.6	1.322 1.332	576.0 581.0	19.0 19.4	1.315 1.325	575-7 580.8	18.3	1.308 1.318	575.5 580.6
80	22.4	1.349	586.3	21.0	1.341	586.0	19.8	1.334	585.8	18.7	1.327	585.7
90	22.9	1.358	591.4	21.5	1.350	591.1	20.2	1.343	591.0	19.1	1.336	590.8
100 110	23.3 23.7	1.367 1.376	596.4 601.4	21.9 22.3	1.359 1.368	596.1 601.1	20.6 21.0	1.352 1.361	596.0 601.0	19.4 19.8	1.345 1.354	595.8 600.8
120	24.2	1.385	606.4	22.7	1.377	606.2	21.4	1.370	606.0	20.1	1.363	605.9
130 140	24.6 25.1	I.394 I.402	611.4 616.4	23.I 23.5	1.386 1.394	611.2 616.2	21.7 22.1	1.379 1.387	611.0 616.1	20.5 20.9	1.372 1.380	610.9 616.0
	, i i											
150 160	25.5 25.9	1.410 1.418	621.4 626.4	23.9 24.3	1.403 1.411	621.2 626.2	22.5 22.9	1.395 1.404	621.1 626.1	21.2 21.6	1.388 1.397	621.0 626.0
170	26.3	1.426	631.4	24.7	1.419	631.2	23.3	1.412	631.1	22.0	1.405	631.0
180 200	26.8- 27.7	1.434 1.449	636.4 646.5	25.1 26.0	1.427 1.442	636.3 646.4	23.7 24.5	1.420 1.435	636.2 646.3	22.4 23.2	1.413 1.428	636.1 646.2
220	28.5	1.464	656.7	26.8	1.457	656.6 666.8	25.3 26.1	1.450	656.5	23.9	1.443	656.4
240	29.3	1.479	000.9	27.6	1.472	000.0	20.1	1.465	666.7	24.7	1.458	666.6
		19 [-17.8]		1.05	20 [-15.9]			21 [-14.0]			22 [-12.2]	
Sat.	14.1		533-4	13.4		534.0	12.8		534.6	12.3		535.1
	14.1 14.4	[-17.8]	533·4 537·9	13.4 13.7	[-15.9]	534.0 537.4	12.8 13.0	[-14.0]	534.6 536.9	12.3 12.4	[-12.2]	535.I 536.4
Sat. -10 0	14.4 14.8	[-17.8] 1.214 1.224 1.236	537·9 543·4	13.7 14.0	[-15.9] 1.209 1.217 1.229	537-4 542-9	13.0 13.3	[-14.0] 1.205 1.210 1.222	536.9 542.5	12.4 12.7	[-12.2] 1.201 1.204 1.216	536.4 542.1
Sat. 10 0 10	14.4 14.8 15.2	[-17.8] 1.214 1.224 1.236 1.248	537·9 543·4 548.8	13.7 14.0 14.4	[-15.9] 1.209 1.217 1.229 1.241	537.4 542.9 548.4	13.0 13.3 13.7	[-14.0] 1.205 1.210 1.222 1.234	536.9 542.5 548.1	12.4 12.7 13.1	[-12.2] 1.201 1.204 1.216 1.228	536.4 542.1 547.7
Sat. -10 0	14.4 14.8 15.2 15.5 15.9	[-17.8] I.214 I.224 I.236 I.248 I.259 I.270	537.9 543.4 548.8 554.2 559.6	13.7 14.0	[-15.9] 1.209 1.217 1.229	537.4 542.9 548.4 553.9 559.2	13.0 13.3	[-14.0] 1.205 1.210 1.222 1.234 1.246 1.257	536.9 542.5 548.1 553.6 558.9	12.4 12.7	[-12.2] I.20I I.204 I.216 I.228 I.240 I.25I	536.4 542.1 547.7 553.2 558.6
Sat. 10 0 10 20	14.4 14.8 15.2 15.5	[-17.8] I.214 I.224 I.236 I.248 I.259	537.9 543.4 548.8 554.2	13.7 14.0 14.4 14.7	[-15.9] 1.209 1.217 1.229 1.241 1.252	537.4 542.9 548.4 553.9	13.0 13.3 13.7 14.0	[-14.0] 1.205 1.210 1.222 1.234 1.246	536.9 542.5 548.1 55 <u>3</u> .6	12.4 12.7 13.1 13.4	[-12.2] I.20I I.204 I.216 I.228 I.228 I.240	536.4 542.1 547.7 553.2
Sat. 10 0 10 20 30 40 50	14.4 14.8 15.2 15.5 15.9 16.3 16.7	[-17.8] I.214 I.224 I.236 I.248 I.259 I.270 I.281 I.291	537.9 543.4 548.8 554.2 559.6 564.9 570.1	13.7 14.0 14.4 14.7 15.1 15.5 15.8	[-15.9] 1.209 1.217 1.229 1.241 1.252 1.263 1.274 1.284	537.4 542.9 548.4 553.9 559.2 564.5 569.8	13.0 13.3 13.7 14.0 14.4 14.7 15.0	[-14.0] I.205 I.210 I.222 I.234 I.246 I.257 I.268 I.278	536.9 542.5 548.1 553.6 558.9 564.2 569.5	12.4 12.7 13.1 13.4 13.7 14.0 14.3	[-12.2] I.20I I.204 I.216 I.228 I.220 I.251 I.262 I.272	536.4 542.1 547.7 553.2 558.6 564.0 569.3
Sat. 10 0 10 20 30 40 50 60	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0	[-17.8] I.214 I.224 I.236 I.248 I.259 I.270 I.281 I.291 I.301	537.9 543.4 548.8 554.2 559.6 564.9 570.1 575.3	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.294	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4	[-14.0] I.205 I.210 I.222 I.234 I.246 I.257 I.268 I.278 I.288	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7	[-12.2] I.201 I.204 I.216 I.228 I.240 I.251 I.262 I.272 I.282	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5
Sat. 10 0 10 20 30 40 50	14.4 14.8 15.2 15.5 15.9 16.3 16.7	[-17.8] I.214 I.224 I.236 I.248 I.259 I.270 I.281 I.291	537.9 543.4 548.8 554.2 559.6 564.9 570.1	13.7 14.0 14.4 14.7 15.1 15.5 15.8	[-15.9] 1.209 1.217 1.229 1.241 1.252 1.263 1.274 1.284	537.4 542.9 548.4 553.9 559.2 564.5 569.8	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.0	[-14.0] I.205 I.210 I.222 I.234 I.246 I.257 I.268 I.278	536.9 542.5 548.1 553.6 558.9 564.2 569.5	12.4 12.7 13.1 13.4 13.7 14.0 14.3	[-12.2] I.20I I.204 I.216 I.228 I.220 I.251 I.262 I.272	536.4 542.1 547.7 553.2 558.6 564.0 569.3
Sat. -10 0 20 30 40 50 60 70	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7	[-17.8] I.214 I.224 I.236 I.248 I.259 I.270 I.281 I.291 I.301 I.311	537.9 543.4 548.8 554.2 559.6 564.9 570.1 575.3 580.4	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.294 I.304	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 580.2	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7	[-14.0] I.205 I.210 I.222 I.234 I.246 I.257 I.268 I.278 I.288 I.298	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0	[-12.2] I.20I I.204 I.216 I.228 I.240 I.25I I.262 I.272 I.282 I.272 I.282 I.292	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5 579.7
Sat. 10 0 10 20 30 40 50 60 70 80 90 100	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7 18.0 18.4	[-17.8] I.214 I.224 I.236 I.248 I.259 I.270 I.281 I.291 I.301 I.311 I.320 I.329 I.339	537-9 543-4 548.8 554-2 559-6 564-9 570-1 575-3 580-4 585-5 590-6 595-7	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.8 17.1 17.5	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.294 I.304 I.314 I.323 I.332	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 580.2 585.3 590.4 595.5	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.0 16.3 16.6	[-14.0] I.205 I.210 I.222 I.234 I.246 I.257 I.268 I.278 I.288 I.298 I.308 I.317 I.326	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 590.2 595.3	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9	[-12.2] I.201 I.204 I.216 I.226 I.240 I.251 I.262 I.272 I.282 I.292 I.302 I.312 I.321	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5 579.7 584.9 590.0 595.1
Sat. 10 0 200 30 40 50 60 70 80 90 100 110	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7 18.0 18.4 18.7	[-17.8] I.214 I.224 I.224 I.236 I.248 I.259 I.270 I.281 I.291 I.301 I.311 I.320 I.329 I.329 I.339 I.348	537.9 543.4 548.8 554.2 559.6 564.9 570.1 570.1 580.4 585.5 590.6 595.7 600.7	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.8 17.1 17.5 17.8	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.294 I.304 I.314 I.323 I.322 I.341	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 580.2 585.3 590.4 595.5 600.5	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.0 16.3 16.6 16.9	[-14.0] I.205 I.210 I.222 I.234 I.244 I.257 I.268 I.278 I.288 I.298 I.308 I.317 I.326 I.335	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 590.2 595.3 600.4	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9 16.2	[-12.2] I.201 I.204 I.216 I.228 I.240 I.251 I.262 I.272 I.282 I.292 I.302 I.312 I.321 I.330	536.4 542.1 547.7 553.2 558.6 564.0 569.3 579.7 579.7 584.9 590.0 595.1 600.2
Sat. 10 0 10 20 30 40 50 60 70 80 90 100 110 120	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7 18.0 18.4 18.7 19.0	[-17.8] I.214 I.224 I.224 I.225 I.248 I.259 I.270 I.281 I.201 I.301 I.311 I.320 I.329 I.329 I.339 I.348 I.357	537-9 543-4 548.8 554-2 559-6 564-9 570-1 575-3 580-4 585-5 590-6 595-7	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.8 17.1 17.5	[-15.9] I.209 I.217 I.229 I.241 I.253 I.274 I.263 I.274 I.284 I.294 I.304 I.314 I.323 I.314 I.323 I.321 I.341 I.350	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 585.2 585.3 590.4 595.5 600.5 600.5	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.0 16.3 16.6 16.9 17.2	[-14.0] I.205 I.210 I.222 I.234 I.226 I.257 I.268 I.278 I.288 I.298 I.308 I.317 I.326 I.335 I.344	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 590.2 595.3	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9	[-12.2] I.201 I.204 I.216 I.228 I.220 I.251 I.262 I.272 I.282 I.292 I.302 I.312 I.330 I.339	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5 579.7 584.9 590.0 595.1
Sat. 10 0 200 30 40 50 60 70 80 90 100 110	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7 18.0 18.4 18.4 18.7 19.0 19.4	[-17.8] I.214 I.224 I.224 I.236 I.248 I.259 I.270 I.281 I.291 I.301 I.311 I.320 I.329 I.329 I.339 I.348	537-9 543-4 548-8 554-2 559-6 564-9 570-1 575-3 580-4 585-5 590-6 595-7 600-7 605-8	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.8 17.1 17.5 17.8 18.1	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.294 I.304 I.314 I.323 I.322 I.341	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 580.2 585.3 590.4 595.5 600.5	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.0 16.3 16.6 16.9	[-14.0] I.205 I.210 I.222 I.234 I.244 I.257 I.268 I.278 I.288 I.298 I.308 I.317 I.326 I.335	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 590.2 595.3 600.4 605.4	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9 16.2 16.5	[-12.2] I.201 I.204 I.216 I.228 I.240 I.251 I.262 I.272 I.282 I.292 I.302 I.312 I.312 I.321 I.330	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5 579.7 584.9 590.0 595.1 600.2 605.3
Sat. 10 0 10 200 30 40 50 60 70 80 90 100 110 120 130 140 150	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7 18.0 18.4 18.7 19.0 19.4 19.8 20.1	[-17.8] I.214 I.224 I.224 I.225 I.270 I.281 I.291 I.301 I.311 I.320 I.329 I.329 I.348 I.357 I.365 I.374 I.382	537.9 543.4 548.8 554.2 559.6 564.9 570.1 575.3 580.4 585.5 590.6 595.7 600.7 605.8 610.8 615.8 620.9	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.8 17.1 17.5 17.8 18.1 18.4 18.8 19.1	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.294 I.304 I.304 I.314 I.323 I.332 I.341 I.350 I.359 I.368 I.376	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 585.3 590.4 595.5 605.6 610.7 615.7 620.8	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.0 16.3 16.6 16.9 17.2 17.5 17.8 18.1	[-14.0] 1.205 1.210 1.222 1.234 1.246 1.257 1.268 1.278 1.288 1.298 1.308 1.317 1.326 1.335 1.344 1.353 1.362 1.370	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 590.2 595.3 600.4 605.4 615.5 615.5 620.6	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9 16.2 16.5 16.8 17.1 17.3	[-12.2] I.201 I.204 I.216 I.228 I.220 I.251 I.262 I.272 I.282 I.292 I.302 I.312 I.312 I.330 I.339 I.347 I.356 I.364	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5 579.7 584.9 590.0 595.1 600.2 605.3 610.4 615.4 620.5
Sat. 10 0 100 200 300 400 500 600 700 800 900 1000 1100 1300 1400 1500 1600	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.0 17.0 17.0 17.0 18.0 18.4 18.7 19.0 19.4 19.8 20.1 20.4	[-17.8] I.214 I.224 I.236 I.248 I.259 I.270 I.281 I.301 I.311 I.329 I.329 I.339 I.345 I.357 I.365 I.374 I.382 I.390	537.9 543.4 548.8 554.2 559.6 564.9 570.1 575.3 580.4 585.5 590.6 595.7 605.8 610.8 615.8 615.8 620.9 625.9	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.8 17.1 17.5 17.8 18.1 18.4 18.8 19.1 19.4	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.294 I.304 I.314 I.323 I.321 I.350 I.359 I.368 I.376 I.384	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 580.2 585.3 590.4 595.5 605.6 610.7 615.7 620.8 625.8	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.0 16.3 16.6 16.9 17.2 17.5 17.8 18.1 18.4	[-14.0] 1.205 1.210 1.222 1.234 1.246 1.257 1.268 1.278 1.288 1.298 1.308 1.317 1.326 1.335 1.344 1.353 1.362 1.370 1.378	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 590.2 595.3 600.4 605.4 610.5 615.5 620.6 625.7	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9 16.2 16.5 16.8 17.1 17.3 17.6	[-12.2] I.201 I.204 I.216 I.228 I.240 I.251 I.262 I.272 I.282 I.312 I.312 I.321 I.330 I.347 I.356 I.364 I.372	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5 579.7 584.9 590.0 595.1 600.2 605.3 610.4 615.4 620.5 625.6
Sat. 10 0 10 200 30 40 50 60 70 80 90 100 110 120 130 140 150	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7 18.0 18.4 18.7 19.0 19.4 19.8 20.1 20.4 20.8	[-17.8] I.214 I.224 I.224 I.225 I.270 I.281 I.291 I.301 I.311 I.320 I.329 I.329 I.348 I.357 I.365 I.374 I.382	537.9 543.4 548.8 554.2 559.6 564.9 570.1 575.3 580.4 585.5 590.6 595.7 600.7 605.8 610.8 615.8 620.9	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.8 17.1 17.5 17.8 18.1 18.4 18.8 19.1	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.294 I.304 I.304 I.314 I.323 I.332 I.341 I.350 I.359 I.368 I.376	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 585.3 590.4 595.5 605.6 610.7 615.7 620.8	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.0 16.3 16.6 16.9 17.2 17.5 17.8 18.1	[-14.0] 1.205 1.210 1.222 1.234 1.246 1.257 1.268 1.278 1.288 1.298 1.308 1.317 1.326 1.335 1.344 1.353 1.362 1.370	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 590.2 595.3 600.4 605.4 615.5 615.5 620.6	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9 16.2 16.5 16.8 17.1 17.3	[-12.2] I.201 I.204 I.216 I.228 I.220 I.251 I.262 I.272 I.282 I.292 I.302 I.312 I.312 I.330 I.339 I.347 I.356 I.364	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5 579.7 584.9 590.0 595.1 600.2 605.3 610.4 615.4 620.5
Sat. - 10 0 100 20 30 40 50 60 70 80 90 100 110 130 140 150 160 170	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7 18.0 18.4 18.7 19.0 19.4 19.8 20.1 120.4 20.8 21.2	[-17.8] I.214 I.224 I.236 I.248 I.259 I.270 I.281 I.301 I.311 I.320 I.329 I.339 I.348 I.357 I.365 I.374 I.382 I.390 I.398	537.9 543.4 548.8 554.2 559.6 564.9 570.1 575.3 580.4 585.5 590.7 600.7 600.7 600.7 601.8 610.8 615.8 620.9 625.9 630.9	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.8 17.1 17.5 17.8 18.1 18.4 18.8 19.1 19.4 19.7	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.294 I.304 I.314 I.323 I.332 I.341 I.359 I.368 I.376 I.384 I.392	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 580.2 585.3 595.5 605.6 610.7 615.7 620.8 625.8 630.8	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.6 16.3 16.6 16.9 17.2 17.5 17.8 18.1 18.4 18.7	[-14.0] I.205 I.210 I.222 I.234 I.246 I.257 I.268 I.278 I.288 I.298 I.308 I.317 I.326 I.335 I.353 I.353 I.362 I.370 I.378 I.386	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 590.2 595.3 600.4 605.4 615.5 615.5 620.6 625.7 630.7	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9 16.2 16.5 16.8 17.1 17.3 17.6 17.9	[-12.2] I.201 I.204 I.216 I.228 I.240 I.251 I.262 I.272 I.282 I.292 I.302 I.312 I.321 I.330 I.339 I.356 I.364 I.372 I.381	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5 579.7 584.9 595.0 595.1 600.2 605.3 610.4 615.4 620.5 625.6 630.6
Sat. 10 0 10 20 30 40 50 60 70 80 90 100 120 120 120 140 150 150 160 170 180	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7 18.0 18.4 18.7 19.0 19.4 19.8 20.1 20.4 20.8 21.2 21.9 22.6	[-17.8] I.214 I.224 I.236 I.259 I.270 I.281 I.301 I.311 I.320 I.329 I.348 I.357 I.374 I.382 I.374 I.382 I.398 I.406	537.9 543.4 548.8 554.2 559.6 564.9 570.1 575.3 580.4 585.5 590.5 595.7 600.7 605.8 610.8 615.8 620.9 625.9 630.9 625.9 630.0 646.1 656.3	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.5 16.5 17.8 17.1 17.5 17.8 18.1 18.4 18.8 19.1 19.4 19.7 20.1	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.304 I.314 I.323 I.332 I.341 I.350 I.358 I.376 I.384 I.392 I.400	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 580.2 585.3 590.4 595.5 605.6 610.7 615.7 620.8 635.9 645.0 625.8 635.9 646.0 656.2	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.0 16.3 16.6 16.9 17.2 17.5 17.8 18.1 18.4 18.7 19.1	[-14.0] I.205 I.210 I.222 I.224 I.246 I.257 I.268 I.278 I.288 I.298 I.308 I.317 I.326 I.335 I.344 I.353 I.362 I.370 I.376 I.386 I.394	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 590.2 595.3 600.4 605.4 605.4 615.5 622.6 625.7 632.7 635.8 645.9 656.1	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9 16.2 16.5 16.8 17.1 17.3 17.6 17.9 18.2 18.8 19.4	[-12.2] I.201 I.204 I.216 I.228 I.240 I.251 I.262 I.272 I.282 I.292 I.302 I.312 I.312 I.321 I.330 I.339 I.347 I.356 I.354 I.381 I.389	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5 579.7 584.9 590.0 595.1 600.2 605.3 605.3 615.4 620.5 625.6 635.7 645.8 656.0
Sat. 10 0 10 20 30 40 50 60 70 80 90 100 120 120 140 150 160 170 180 200 220 240	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7 18.0 18.4 18.7 19.0 19.4 19.8 20.1 120.4 20.8 21.2 21.9 22.6 23.2	[-17.8] I.214 I.224 I.236 I.259 I.270 I.281 I.301 I.311 I.320 I.329 I.348 I.357 I.365 I.374 I.382 I.390 I.398 I.406 I.421 I.437 I.452	537.9 543.4 548.8 554.2 559.6 564.9 570.1 575.3 580.4 585.5 595.7 605.7 605.7 605.7 610.8 615.8 620.9 636.0 636.0 636.0 636.3 666.5	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.5 17.1 17.5 17.8 18.1 18.4 18.8 19.1 19.4 19.7 20.1 20.8 21.4 22.0	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.304 I.314 I.323 I.332 I.341 I.350 I.358 I.376 I.376 I.384 I.392 I.400 I.415 I.431 I.446	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 580.2 585.3 590.4 595.5 600.5 600.5 600.5 6010.7 615.7 620.8 635.8 633.9 646.0 656.2 666.4	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.6 16.3 16.6 16.9 17.2 17.5 17.8 18.1 18.4 18.7 19.1 19.7 20.3 20.9	[-14.0] I.205 I.210 I.222 I.234 I.246 I.257 I.268 I.278 I.278 I.288 I.298 I.308 I.317 I.326 I.335 I.342 I.353 I.353 I.362 I.370 I.376 I.386 I.394 I.410 I.425 I.440	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 595.3 600.4 600.4 600.4 610.5 615.5 620.6 625.7 630.7 635.8 645.9 656.1 666.3	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9 16.2 16.5 16.8 17.1 17.3 17.6 17.9 18.2 18.8 19.4 20.0	[-12.2] I.201 I.204 I.216 I.228 I.240 I.251 I.262 I.272 I.282 I.292 I.302 I.312 I.312 I.321 I.330 I.339 I.356 I.364 I.372 I.381 I.389 I.404 I.419 I.434	536.4 542.1 547.7 553.2 558.6 564.0 569.3 579.7 579.7 579.7 579.7 584.9 599.0 595.1 600.2 605.3 610.4 615.4 620.5 633.6 633.6 635.7 645.8 656.0 666.2
Sat. - 10 0 20 20 30 40 50 60 70 80 90 100 100 100 100 100 140 150 160 170 180 200 220 220 220 220 220 220 2	14.4 14.8 15.2 15.5 15.9 16.3 16.7 17.0 17.3 17.7 18.0 18.4 18.7 19.0 19.4 19.8 20.1 20.4 20.8 21.2 21.9 22.6	[-17.8] I.214 I.224 I.236 I.246 I.246 I.259 I.270 I.281 I.291 I.301 I.311 I.320 I.329 I.339 I.348 I.357 I.365 I.374 I.382 I.390 I.398 I.406 I.421 I.437	537.9 543.4 548.8 554.2 559.6 564.9 570.1 575.3 580.4 585.5 590.5 595.7 600.7 605.8 610.8 615.8 620.9 625.9 630.9 625.9 630.0 646.1 656.3	13.7 14.0 14.4 14.7 15.1 15.5 15.8 16.2 16.5 16.8 17.1 17.5 18.1 18.4 19.4 19.7 20.1 20.8 21.4	[-15.9] I.209 I.217 I.229 I.241 I.252 I.263 I.274 I.284 I.294 I.304 I.314 I.323 I.332 I.341 I.359 I.368 I.376 I.384 I.392 I.400 I.415 I.431	537.4 542.9 548.4 553.9 559.2 564.5 569.8 575.0 580.2 585.3 590.4 595.5 605.6 610.7 615.7 620.8 635.9 645.0 625.8 635.9 646.0 656.2	13.0 13.3 13.7 14.0 14.4 14.7 15.0 15.4 15.7 16.6 16.3 16.6 16.9 17.2 17.5 17.8 18.1 18.4 18.7 19.1 19.7 20.3	[-14.0] I.205 I.210 I.222 I.234 I.246 I.257 I.268 I.278 I.288 I.298 I.308 I.317 I.326 I.335 I.353 I.362 I.370 I.378 I.386 I.394 I.410 I.425	536.9 542.5 548.1 553.6 558.9 564.2 569.5 574.7 579.9 585.1 590.2 595.3 600.4 605.4 605.4 615.5 622.6 625.7 632.7 635.8 645.9 656.1	12.4 12.7 13.1 13.4 13.7 14.0 14.3 14.7 15.0 15.3 15.6 15.9 16.2 16.5 16.8 17.1 17.3 17.6 17.9 18.2 18.8 19.4	[-12.2] I.201 I.204 I.216 I.228 I.240 I.251 I.262 I.272 I.282 I.292 I.302 I.312 I.321 I.330 I.334 I.356 I.364 I.372 I.381 I.389 I.404 I.419	536.4 542.1 547.7 553.2 558.6 564.0 569.3 574.5 579.7 584.9 590.0 595.1 600.2 605.3 605.3 615.4 620.5 625.6 635.7 645.8 656.0

Pres- sure	re [-10.5]			24 [-8.8] v s i			25 [-7.2]			26 [-5.7]		
Temp °F.	V	s	i	v	s	i	v	8	i	V	8	i
Sat.	11.8	1.197	535.6	11.3	1.193	536.1	10.9	1.190	536.5	10.5	1.186	536.9
0	12.I 12.5	I.210 I.222	541.7 547.3	11.6 11.9	1.204 1.217	541.2 546.9	II.I II.4	1.199 1.211	540.8 546.5	10.7 11.0	1.193 1.206	540.3 546.1
20	12.8	1.234	552.8	12.2	1.229	552.4	11.7	1.223	552.I	11.3	1.218	551.7
30 40	13.1 13.4	1.245 1.256	558.3 563.7	12.5 12.8	1.240 1.251	557.9 563.3	12.0 12.3	1.235 1.246	557.6 563.0	11.5 11.8	1.230 1.241	557.2 562.7
50	13.7	1.267	569.0	13.1	1.262	568.7	12.6	1.256	568.4	12.1	1.251	568.1
60 70	14.0 14.3	1.277 1.287	574·3 579·5	13.4 13.7	I.272 I.282	574.0 579.2	12.8 13.1	1.266 1.276	573.7 578.9	12.3 12.6	1.261 1.271	573.4 578.7
80	14.6	1.297	584.7	14.0	1.291	584.4	13.4	1.286	584.1	12.9	1.281	583.9
90 100	14.9	1.306 1.315	589.8 595.0	14.3 14.5	1.301 1.310	589.5 594.7	13.7 13.9	1.296 1.305	589.3 594.5	13.2 13.4	1.291 1.300	589.2 594.4
110	15.5	I.324	600.I	14.8	1.319	599.9	14.2	1.314	599.7	13.6	1.309	599.6
120 130	15.8 16.0	I.333 I.342	605.2 610.3	15.1 15.3	1.328 1.337	605.0 610.1	14.5 14.7	1.323 1.332	604.8 609.9	13.9 14.1	1.318 1.327	604.7 609.8
140	16.3	1.351	615.3	15.6	1.346	615.1	15.0	1.341	615.0	14.1	1.336	614.9
150	16.5	1.359	620.4	15.8	1.354	620.2	15.2	1.349	620.1	14.6	1.344	620.0
160 170	16.8 17.1	1.367 1.375	625.4 630.5	16.1 16.4	1.362 1.370	625.3 630.4	15.4 15.7	1.357 1.365	625.2 630.3	14.8 15.1	1.352 1.360	625.1 630.2
180	17.4	1.383	635.6	16.7	1.378	635.5	16.0	1.373	635.4	15.4	1.368	635.3
190	17.7	1.391	640.7	16.9	1.386	640.6	16.2	1.381	640.5	15.6	1.376	640.4
200	18.0 18.5	1.399 1.414	645.8 656.0	17.2 17.7	1.394 1.409	645.7 655.9	16.5 17.0	1.389 1.404	645.6 655.8	15.9 16.4	1.384 1.399	645.5 655.8
240	19.1	1.429	666.2	18.3	1.424	666.I	17.6	1.419	666.0	16.9	1.414	666.0
260	19.7	1.444	676.4	18.9	1.438	676.3	18.1	1.433	676.2	17.4	1.429	676.2
								-				
		27 [-4.2]			28 [-2.7]			30 [+0.1]			32 [2.7]	5.8
Sat.	10.1		537-4	9.8		537.8	9.17		538.5	8.64		5.8 539·3
Sat.	IO.I IO.2	[-4.2] 1.183 1.188	539.8	9.9	[-2.7] 1.180 1.183	539.4		[+0.1] 1.174			[2.7] 1.168	539.3
0 10	10.2 10.5	[-4.2] 1.183 1.188 1.201	539.8 545.7	9.9 10.2	[-2.7] 1.180 1.183 1.196	539·4 545·3	9.45	[+0.1] 1.174 1.187	 544.5	8.83	[2.7] 1.168 1.178	539·3 543·7
0	10.2	[-4.2] I.183 I.188 I.201 I.213 I.225	539.8 545.7 551.4 556.9	9.9 10.2 10.4 10.7	[-2.7] I.180 I.183 I.196 I.208 I.220	539.4 545.3 551.0 556.6	9.45 9.70 9.94	[+0.1] I.174 I.187 I.199 I.211	544.5 550.3 556.0	8.83 9.06 9.29	[2.7] I.168 I.178 I.190 I.202	539.3 543.7 549.5 555.3
0 10 20 30 40	10.2 10.5 10.8 11.1 11.3	[-4.2] I.183 I.188 I.201 I.213 I.225 I.236	539.8 545.7 551.4 556.9 562.4	9.9 10.2 10.4 10.7 10.9	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231	539.4 545.3 551.0 556.6 562.1	9.45 9.70 9.94 10.18	[+0.1] I.174 I.187 I.199 I.211 I.222	544.5 550.3 556.0 561.6	8.83 9.06 9.29 9.52	[2.7] I.168 I.178 I.190 I.202 I.213	539·3 543·7 549·5 555·3 561.0
0 10 20 30 40 50	10.2 10.5 10.8 11.1 11.3 11.6	[-4.2] I.183 I.188 I.201 I.213 I.225 I.236 I.246	539.8 545.7 551.4 556.9 562.4 567.9	9.9 10.2 10.4 10.7 10.9 11.2	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231 I.242	539.4 545.3 551.0 556.6 562.1 567.6	9.45 9.70 9.94 10.18	[+0.1] I.174 I.187 I.199 I.211 I.222 I.233	544.5 550.3 556.0 561.6 567.1	8.83 9.06 9.29 9.52 9.74	[2.7] I.168 I.178 I.190 I.202 I.213 I.224	539·3 543·7 549·5 555·3 561.0 566.5
0 10 20 30 40 50 60 70	10.2 10.5 10.8 11.1 11.3	[-4.2] I.183 I.188 I.201 I.213 I.225 I.236 I.246 I.257 I.267	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5	9.9 10.2 10.4 10.7 10.9	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231 I.242 I.252 I.252 I.262	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2	9.45 9.70 9.94 10.18 10.41 10.64 10.87	[+0.1] I.174 I.187 I.199 I.211 I.222 I.233 I.243 I.253	544-5 550.3 556.0 561.6 567.1 572.5 577.9	8.83 9.06 9.29 9.52 9.74 9.95 10.17	[2.7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245	539·3 543·7 549·5 555·3 561.0 566.5 572.0 577·5
0 10 20 30 40 50 60 70 80	10.2 10.5 10.8 11.1 11.3 11.6 11.8 12.1 12.4	[-4.2] I.183 I.188 I.201 I.213 I.225 I.236 I.246 I.257 I.267 I.277	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5 583.7	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231 I.242 I.252 I.262 I.272	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2 583.5	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.10	[+0.1] I.174 I.187 I.199 I.211 I.222 I.233 I.243 I.253 I.263	544.5 550.3 556.0 561.6 567.1 572.5 577.9 583.2	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38	[2.7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.255	539·3 543·7 549·5 555·3 561.0 566.5 572.0 577.5 582.8
0 20 30 40 50 60 70 80 90	10.2 10.5 10.8 11.1 11.3 11.6 11.8 12.1 12.4 12.6	[-4.2] I.183 I.201 I.213 I.225 I.236 I.246 I.257 I.267 I.277 I.286	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5 583.7 583.7 589.0	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2	[-2.7] I.180 I.183 I.208 I.220 I.231 I.242 I.252 I.262 I.272 I.282	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2 583.5 588.8	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.10 11.32	[+0.1] I.174 I.187 I.199 I.211 I.222 I.233 I.243 I.253 I.263 I.273	544-5 550-3 556-0 561-6 567-1 572-5 577-9 583.2 588.5	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60	[2-7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.245 I.255 I.265	539.3 543.7 549.5 555.3 561.0 566.5 572.0 577.5 582.8 588.1
0 10 20 30 40 50 60 70 80 90 100	10.2 10.5 10.8 11.1 11.3 11.6 11.8 12.1 12.4 12.6 12.9	[-4.2] I.183 I.188 I.201 I.213 I.225 I.236 I.246 I.257 I.267 I.277 I.286 I.296	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5 583.7 589.0 594.2	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2 12.4	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231 I.242 I.252 I.262 I.272 I.282 I.291	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2 583.5 588.8 594.0	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.10 11.32	[+0.1] I.174 I.187 I.211 I.222 I.233 I.243 I.253 I.263 I.273 I.283	544.5 550.3 556.0 561.6 567.1 572.5 577.9 583.2 588.5 593.7	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60 10.81	[2-7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.245 I.255 I.265 I.275	539.3 543.7 543.7 555.3 561.0 566.5 572.0 577.5 582.8 588.1
0 10 20 30 40 50 60 70 80 90 100 110 120	10.2 10.5 10.8 11.1 11.3 11.6 11.8 12.1 12.4 12.6 12.9 13.1 13.4	[-4.2] I.183 I.188 I.201 I.213 I.225 I.236 I.246 I.257 I.267 I.277 I.286 I.296 I.305 I.314	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5 578.5 578.5 578.5 583.7 589.0 594.2 599.4 604.6	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2 12.4 12.6 12.9	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231 I.242 I.252 I.252 I.272 I.272 I.282 I.291 I.300 I.309	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2 578.2 578.2 578.2 578.5 578.8 594.0 599.2 604.4	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.10 11.32 11.55 11.77 11.99	[+0.1] I.174 I.187 I.199 I.211 I.222 I.233 I.253 I.263 I.273 I.283 I.292 I.301	544-5 550-3 556-0 561-6 567-1 572-5 577-9 583.2 588-5 593-7 598-9 604.1	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60 10.81 11.02 11.23	[2.7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.255 I.265 I.275 I.284 I.293	539.3 543.7 549.5 555.3 561.0 566.5 572.0 577.5 582.8 588.1 593.3 598.6 603.8
0 10 20 30 40 50 60 70 80 90 100 110 120 130	10.2 10.5 10.8 11.1 11.3 11.6 11.8 12.1 12.4 12.6 12.9 13.1 13.4 13.6	[-4.2] I.183 I.183 I.201 I.213 I.225 I.236 I.246 I.257 I.267 I.267 I.277 I.286 I.305 I.314 I.323	539.8 545.7 551.4 556.9 562.4 567.9 573.2 573.2 573.5 583.7 589.0 594.2 599.4 604.6 609.7	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2 12.4 12.6 12.9 13.1	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231 I.242 I.252 I.252 I.262 I.272 I.282 I.291 I.309 I.318	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2 583.5 588.8 594.0 594.0 594.2 604.4 609.5	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.10 11.32 11.55 11.77 11.99 12.21	[+0.1] I.174 I.187 I.222 I.233 I.243 I.253 I.263 I.273 I.273 I.283 I.273 I.283 I.301 I.310	544.5 550.3 550.0 561.6 567.1 572.5 577.9 588.5 593.7 598.9 604.1 609.3	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60 10.81 11.02 11.23 11.44	[2-7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.265 I.265 I.275 I.284 I.293 I.302	539.3 543.7 549.5 555.3 561.0 566.5 572.0 577.5 582.8 588.1 593.3 598.6 603.8 609.0
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140	10.2 10.5 10.8 11.1 11.3 11.6 11.8 12.1 12.4 12.6 12.9 13.1 13.4 13.6 13.8	[-4.2] I.183 I.188 I.201 I.213 I.225 I.236 I.246 I.257 I.267 I.277 I.267 I.277 I.286 I.305 I.314 I.323 I.331	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5 583.7 583.0 594.2 599.4 604.6 609.7 614.8	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2 12.4 12.6 12.9 13.1 13.2	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231 I.242 I.252 I.262 I.272 I.282 I.291 I.300 I.308 I.326	539.4 545.3 556.6 562.1 567.6 572.9 578.2 583.5 588.8 594.0 599.2 604.4 609.5 614.6	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.10 11.32 11.55 11.77 11.99 12.21 12.43	[+0.1] I.174 I.187 I.211 I.222 I.233 I.243 I.253 I.263 I.273 I.263 I.273 I.283 I.292 I.301 I.310 I.318	544-5 550-3 556-0 561-6 572-5 577-9 583-2 588-5 593-7 598-9 604-1 609-3 614-4	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60 10.81 11.02 11.23 11.44 11.64	[2-7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.245 I.255 I.265 I.275 I.284 I.293 I.302 I.310	539.3 543.7 549.5 555.3 561.0 566.5 572.0 577.5 582.8 588.1 593.3 598.6 603.8 609.0 614.1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150	10.2 10.5 10.8 11.1 11.3 11.6 11.8 12.1 12.4 12.6 12.9 13.1 13.4 13.6 13.8 14.1	[-4.2] I.183 I.201 I.213 I.225 I.236 I.246 I.257 I.267 I.277 I.267 I.277 I.286 I.305 I.314 I.323 I.331 I.340	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5 578.5 578.5 578.5 583.7 589.0 594.2 599.4 604.6 609.7 614.8 619.9	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2 12.4 12.6 12.9 13.1 13.2 13.6	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231 I.242 I.252 I.262 I.272 I.282 I.291 I.300 I.318 I.326 I.335	539.4 545.3 551.6 556.6 562.1 567.6 572.9 578.2 577.2	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.10 11.32 11.55 11.77 11.99 12.21 12.43 12.65	[+0.1] I.174 I.187 I.187 I.199 I.211 I.222 I.233 I.253 I.253 I.263 I.273 I.283 I.292 I.301 I.310 I.318 I.327	544-5 550-3 556-0 561-6 572-5 577-9 583-2 588-5 593-7 598-9 604-1 609-3 614-4 619-5	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60 10.81 11.02 11.23 11.44 11.64	[2-7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.245 I.255 I.265 I.275 I.284 I.293 I.302 I.310 I.319	539.3 543.7 543.7 549.5 555.3 561.0 566.5 572.0 577.5 582.8 588.1 593.3 598.6 603.8 609.0 614.1 619.3
0 10 20 40 50 60 70 80 90 100 110 120 130 140 150 160 170	10.2 10.5 10.8 11.1 11.3 11.6 12.1 12.4 12.6 12.9 13.1 13.4 13.6 13.8 14.1 14.3 14.5	[-4.2] I.183 I.183 I.201 I.213 I.225 I.236 I.257 I.267 I.277 I.286 I.296 I.305 I.314 I.323 I.331 I.340 I.348 I.356	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5 583.7 589.0 594.2 599.4 604.6 609.7 614.8 619.9 625.0 630.1	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2 12.4 12.6 12.9 13.1 13.2 13.6 13.8 14.0	[-2.7] I.180 I.183 I.208 I.220 I.231 I.242 I.252 I.262 I.272 I.282 I.291 I.300 I.318 I.326 I.335 I.344 I.352	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2 583.5 583.8 594.0 599.2 604.4 609.5 614.6 619.7 624.9 630.0	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.00 11.32 11.55 11.77 11.99 12.21 12.43 12.65 12.87 13.08	[+0.1] I.174 I.187 I.222 I.233 I.243 I.253 I.263 I.273 I.263 I.273 I.283 I.292 I.310 I.318 I.327 I.335 I.334	544-5 550-3 556-0 561-6 567-1 572-5 577-9 583-2 588-5 593-7 598-9 604-1 609-3 614-4 619-5 624-7 629.8	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60 10.81 11.02 11.23 11.44 11.64 11.85 12.05 12.25	[2-7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.245 I.255 I.265 I.275 I.284 I.293 I.300 I.310 I.319 I.327 I.336	539.3 543.7 549.5 555.3 561.0 566.5 572.0 577.5 582.8 588.1 593.3 598.6 603.8 609.0 614.1 619.3 624.5 629.6
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160	10.2 10.5 10.8 11.1 11.3 11.6 11.8 12.1 12.4 12.6 12.9 13.1 13.4 13.6 13.8 14.1 14.3	[-4.2] I.183 I.183 I.201 I.213 I.225 I.236 I.246 I.257 I.267 I.267 I.277 I.286 I.305 I.314 I.323 I.331 I.340 I.348	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5 583.7 583.0 594.2 599.4 604.6 609.7 614.8 619.9 625.0	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2 12.4 12.6 12.9 13.1 13.2 13.6 13.8	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231 I.242 I.252 I.252 I.252 I.262 I.272 I.282 I.291 I.300 I.308 I.326 I.335 I.344	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2 583.5 588.8 594.0 594.0 594.4 609.5 614.6 619.7 624.9	9.45 9.70 9.94 10.18 10.64 11.06 11.32 11.55 11.77 11.99 12.21 12.43 12.65 12.87	[+0.1] I.174 I.187 I.199 I.211 I.222 I.233 I.243 I.243 I.253 I.263 I.273 I.283 I.273 I.283 I.273 I.310 I.318 I.327 I.335	544.5 550.3 550.0 561.6 567.1 572.5 577.9 583.2 588.5 593.7 598.9 604.1 609.3 614.4 619.5 624.7	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60 10.81 11.02 11.23 11.44 11.64	[2-7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.265 I.265 I.265 I.275 I.284 I.293 I.302 I.310 I.319 I.327	539.3 543.7 549.5 555.3 561.0 566.5 572.0 577.5 582.8 588.1 593.3 598.6 603.8 609.0 614.1 619.3 624.5
0 10 20 30 40 50 60 70 80 90 100 120 130 140 150 160 170 180 190	10.2 10.5 10.8 11.1 11.3 11.6 11.8 12.1 12.4 12.9 13.1 13.4 13.6 13.8 14.1 14.3 14.5 14.8 15.0	[-4.2] I.183 I.183 I.201 I.213 I.225 I.236 I.257 I.267 I.267 I.267 I.277 I.286 I.305 I.314 I.323 I.331 I.340 I.346 I.356 I.364 I.372	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5 578.5 578.5 578.5 583.7 589.0 594.2 599.4 604.6 609.7 614.8 619.9 625.0 630.1 635.2 640.3	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2 12.4 12.6 12.9 13.1 13.2 13.6 13.8 14.0 14.3 14.5	[-2.7] I.180 I.183 I.196 I.208 I.220 I.231 I.242 I.252 I.252 I.262 I.272 I.282 I.291 I.300 I.309 I.318 I.326 I.335 I.344 I.352 I.360 I.368	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2 583.8 594.0 594.0 594.0 594.0 594.4 609.5 614.6 619.7 624.9 630.0 635.1 640.2	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.10 11.32 11.55 11.77 11.99 12.21 12.43 12.65 12.87 13.08 13.30 13.52	[+0.1] I.174 I.187 I.222 I.233 I.243 I.253 I.263 I.273 I.283 I.273 I.283 I.273 I.310 I.310 I.318 I.327 I.335 I.344 I.352 I.360	544.5 550.3 550.3 556.0 561.6 567.1 572.5 577.9 583.2 588.5 593.7 598.9 604.1 609.3 614.4 619.5 624.7 629.8 634.9 640.0	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60 10.81 11.02 11.23 11.44 11.64 11.85 12.05 12.25 12.46 12.67	[2-7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.265 I.265 I.275 I.284 I.293 I.300 I.310 I.319 I.327 I.336 I.344 I.352	539.3 543.7 543.7 549.5 555.3 561.0 566.5 572.0 577.5 582.8 588.1 593.3 598.6 603.8 609.0 614.1 619.3 624.5 629.6 634.7 639.8
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1400 1500 1700 1800 1900 2200 2200	10.2 10.5 10.8 11.1 11.3 11.6 12.1 12.4 12.6 12.9 13.1 13.4 13.6 13.8 14.1 14.3 14.5 14.8 15.0 15.3 15.8	[-4.2] I.183 I.183 I.201 I.213 I.225 I.236 I.246 I.257 I.267 I.277 I.267 I.277 I.286 I.305 I.314 I.323 I.331 I.340 I.356 I.364 I.372 I.380 I.395	539.8 545.7 551.4 566.9 562.4 567.9 573.2 578.5 583.7 589.0 594.2 599.4 604.6 609.7 614.8 619.9 625.0 630.1 635.2 640.3 645.4 655.7	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2 12.4 12.6 12.9 13.1 13.2 13.6 13.8 14.0 14.3 14.5 14.7 15.2	[-2.7] I.180 I.183 I.208 I.220 I.231 I.242 I.252 I.262 I.272 I.282 I.291 I.300 I.318 I.326 I.335 I.344 I.352 I.360 I.368 I.376 I.391	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2 583.5 588.8 594.0 599.2 604.4 609.7 614.6 619.7 624.9 630.0 635.1 640.2 645.3 655.6	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.10 11.32 11.55 11.77 11.99 12.21 12.43 12.65 12.87 13.08 13.30 13.52 13.74 14.17	[+0.1] I.174 I.187 I.222 I.233 I.243 I.253 I.263 I.273 I.283 I.292 I.310 I.310 I.318 I.327 I.344 I.352 I.360 I.367 I.383	544-5 550-3 556-0 561-6 567-1 572-5 577-9 583-2 588-5 593-7 598-9 604-1 609-3 614-4 619-5 624-7 629-8 634-9 640-0 645-2 655-4	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60 10.81 11.02 11.23 11.44 11.64 11.85 12.05 12.25 12.46 12.67 12.87 13.27	[2-7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.245 I.255 I.265 I.275 I.284 I.302 I.310 I.319 I.327 I.336 I.344 I.352 I.359 I.375	539.3 543.7 549.5 555.3 561.0 566.5 572.0 577.5 582.8 588.1 593.3 598.6 603.8 609.0 614.1 619.3 624.5 629.6 634.7 639.8 645.0 655.3
0 100 200 300 400 500 600 700 800 900 1000 1100 1300 1400 1500 1600 1700 1800 1900 2000	10.2 10.5 10.8 11.1 11.3 11.6 11.8 12.1 12.4 12.6 12.9 13.1 13.4 13.6 13.8 14.1 14.3 14.5 14.8 15.0 15.3	[-4.2] I.183 I.183 I.201 I.213 I.225 I.236 I.246 I.257 I.267 I.267 I.277 I.286 I.314 I.323 I.314 I.323 I.331 I.340 I.346 I.364 I.372 I.380	539.8 545.7 551.4 556.9 562.4 567.9 573.2 578.5 583.7 589.0 594.2 599.4 604.6 609.7 614.8 619.9 625.0 630.1 635.2 640.3 645.4	9.9 10.2 10.4 10.7 10.9 11.2 11.4 11.7 11.9 12.2 12.4 12.6 12.9 13.1 13.2 13.6 13.8 14.0 14.3 14.5 14.7	[-2.7] I.180 I.183 I.208 I.200 I.231 I.242 I.252 I.262 I.272 I.282 I.291 I.300 I.318 I.326 I.335 I.344 I.352 I.366 I.368 I.376	539.4 545.3 551.0 556.6 562.1 567.6 572.9 578.2 583.5 588.8 594.0 599.2 604.4 609.5 614.6 619.7 624.9 630.0 635.1 640.2 645.3	9.45 9.70 9.94 10.18 10.41 10.64 10.87 11.00 11.32 11.55 11.77 11.99 12.21 12.43 12.65 12.87 13.08 13.52 13.74	[+0.1] I.174 I.187 I.222 I.233 I.243 I.253 I.263 I.273 I.263 I.273 I.283 I.273 I.283 I.292 I.310 I.318 I.327 I.335 I.344 I.352 I.360 I.367	544-5 550-3 550-3 556-0 561-6 572-5 577-9 583-2 588-5 593-7 598-9 604-1 609-3 614-4 619-5 624-7 629-8 634-9 645-2	8.83 9.06 9.29 9.52 9.74 9.95 10.17 10.38 10.60 10.81 11.02 11.23 11.44 11.64 11.85 12.05 12.25 12.46 12.67 12.87	[2-7] I.168 I.178 I.190 I.202 I.213 I.224 I.235 I.245 I.255 I.265 I.275 I.265 I.275 I.293 I.302 I.310 I.319 I.327 I.336 I.344 I.352 I.359	539.3 543.7 549.5 555.3 561.0 566.5 572.0 577.5 582.8 588.1 593.3 598.6 603.8 609.0 614.1 619.3 624.5 629.6 634.7 639.8 645.0

v = volume, cu. ft. per lb.

s = entropy

i = heat content, B.t.u.

Pres- sure	e [5:3]			36 [7.7]			38 [10.0]			40 [12.2]		
Temp °F.	v	S	i	v	s	i	v	s	i	v	S	i
Sat.	8.15	1.163	540.0	7.73	1.158	540.6	7.34	1.153	541.2	6.99	1.149	541.8
10 20 30 40	8.26 8.50 8.72 8.93	1.169 1.182 1.194 1.205	542.9 548.8 554.6 560.4	7.78 8.01 8.22 8.42	1.161 1.174 1.186 1.198	542.0 548.0 553.9 559.7	7.34 7.56 7.76 7.96	1.153 1.166 1.179 1.191	541.2 547.3 553.3 559.1	.7.17 7.36 7.54	1.159 1.172 1.184	546.6 552.6 558.5
50 60 70 80 90	9.14 9.35 9.56 9.76 9.96	1.216 1.227 1.237 1.247 1.257	566.0 571.5 577.0 582.4 587.7	8.62 8.81 9.01 9.20 9.39	1.209 1.220 1.230 1.240 1.250	565.4 571.0 576.5 581.9 5 ⁸ 7.3	8.15 8.33 8.52 8.70 8.88	I.202 I.213 I.223 I.233 I.243	564.8 570.5 576.0 581.4 586.8	7.72 7.90 8.08 8.25 8.42	1.195 1.206 1.217 1.227 1.227	564.3 570.0 575.5 581.0 586.4
100 110 120 130 140	10.16 10.36 10.56 10.76 10.95	1.267 1.276 1.285 1.294 1.303	593.0 598.2 603.4 608.7 613.9	9.58 9.77 9.96 10.15 10.33	1.260 1.269 1.278 1.287 1.296	592.6 597.8 603.1 608.4 613.6	9.06 9.24 9.42 9.60 9.77	1.253 1.262 1.272 1.281 1.289	592.2 597.5 602.8 608.1 613.3	8.59 8.76 8.93 9.10 9.27	1.247 1.256 1.265 1.274 1.283	591.8 597.2 602.5 607.8 613.0
150 160 170 180 190	11,14 11.33 11.52 11.72 11.91	1.312 1.320 1.328 1.336 1.344	619.1 624.2 629.3 634.5 639.7	10.51 10.69 10.87 11.06 11.24	1.305 1.313 1.321 1.329 1.337	618.8 624.0 629.1 634.3 639.5	9.95 10.12 10.29 10.47 10.64	1.298 1.307 1.315 1.323 1.331	618.5 623.7 628.9 634.1 639.3	9.44 9.61 9.77 9.93 10.10	1.292 1.300 1.309 1.317 1.325	618.2 623.4 628.6. 633.9 639.1
200 220 240 260 280	12.10 12.48 12.86 13.24 13.62	1.352 1.368 1.383 1.397 1.412	644.9 655.1 665.4 675.7 686.0	11.42 11.78 12.13 12.48 12.84	1.346 1.361 1.376 1.391 1.405	644.7 655.0 665.3 675.6 685.9	10.81 11.15 11.49 11.83 12.17	1.339 1.354 1.369 1.384 1.398	644.5 654.8 665.2 675.5 685.8	10.26 10.58 10.90 11.23 11.55	1.333 1.348 1.363 1.378 1.392	644.3 654.6 665.0 675 4 685.7
		42 [14.4]			44 [16.4]			46 [18.4]			48 [20.3]	
Sat.	6.67		542.3	6.38	44	542.8	6.12		543.3	5.88	48	543.8
Sat. 20 30 40	6.67 6.81 7.00 7.17	[14.4]	542.3 545.8 551.9 557.9	6.38 6.47 6.65 6.82	44 [16.4]	542.8 545.1 551.3 557.3	6.12 6.15 6.33 6.51	[18.4]	543-3 544-3 550-6 556-7		48 [20.3]	543.8 550.0 556.1
20 30	6.81 7.00	[14.4] 1.145 1.152 1.165	545.8 551.9	6.47 6.65	44 [16.4] 1.141 1.145 1.158	545.1 551.3	6.15 6.33	[18.4] 1.137 1.139 1.152	544·3 550.6	5.88	48 [20.3] I.133 I.146	550.0
20 30 40 50 60 70 80	6.81 7.00 7.17 7.34 7.51 7.68 7.85	[14.4] I.145 I.152 I.165 I.177 I.188 I.199 I.210 I.220	545.8 551.9 557.9 563.7 569.5 575.1 580.6	6.47 6.65 6.82 6.99 7.16 7.32 7.48	44 [16.4] 1.141 1.145 1.158 1.170 1.182 1.193 1.204 1.214	545.1 551.3 557.3 563.2 569.0 574.6 580.2	6.15 6.33 6.51 6.68 6.84 6.99 7.14	[18.4] 1.137 1.139 1.152 1.164 1.176 1.187 1.198 1.209	544.3 550.6 556.7 562.6 568.4 574.1 579.7	5.88 5.06 6.22 6.38 6.54 6.69 6.84	48 [20.3] I.133 I.146 I.158 I.170 I.182 I.193 I.203	550.0 556.1 562.0 567.9 573.6 579.3
20 30 40 50 60 70 80 90 100 110 120 130	6.81 7.00 7.17 7.34 7.51 7.68 7.85 8.02 8.18 8.34 8.34 8.50 8.66	[144] I.145 I.152 I.165 I.177 I.188 I.199 I.210 I.220 I.230 I.230 I.240 I.259 I.268	545.8 551.9 557.9 563.7 569.5 575.1 580.6 586.0 591.5 596.9 602.2 607.5	6.47 6.65 6.82 6.99 7.16 7.32 7.48 7.64 7.80 7.95 8.10 8.26	44 [16.4] I.141 I.145 I.158 I.170 I.182 I.193 I.204 I.214 I.224 I.224 I.224 I.224 I.224 I.224	545.1 551.3 557.3 563.2 569.0 574.6 580.2 585.7 591.1 596.5 601.9 607.2	6.15 6.33 6.51 6.68 6.84 6.99 7.14 7.29 7.44 7.59 7.74 7.89	[18.4] 1.137 1.139 1.152 1.164 1.176 1.187 1.198 1.209 1.219 1.229 1.228 1.248 1.257	544.3 550.6 556.7 562.6 568.4 574.1 579.7 585.3 590.8 596.2 601.6 606.9	5.88 6.06 6.22 6.38 6.54 6.69 6.84 6.98 7.13 7.27 7.42 7.56	48 [20.3] I.133 I.146 I.158 I.170 I.182 I.193 I.203 I.213 I.223 I.223 I.223 I.223 I.225 I	550.0 556.1 562.0 567.9 579.3 584.9 590.4 590.4 595.9 601.3 606.6
20 30 40 50 60 70 80 90 100 120 130 140 150 160 170 180	6.81 7.00 7.17 7.34 7.51 7.68 7.85 8.02 8.18 8.34 8.34 8.34 8.34 8.56 8.82 8.98 9.14 9.30 9.45	[144] I.145 I.152 I.165 I.177 I.188 I.199 I.210 I.220 I.220 I.230 I.220 I.230 I.240 I.250 I.250 I.250 I.250 I.250 I.268 I.277 I.286 I.277 I.286 I.294 I.303 I.311	545.8 551.9 557.9 563.7 569.5 575.1 586.6 586.0 591.5 596.9 602.2 607.5 612.7 618.0 623.2 628.4 633.7	6.47 6.65 6.82 6.99 7.16 7.32 7.48 7.64 7.80 7.95 8.10 8.26 8.41 8.56 8.71 8.86 9.01	44 [16.4] I.141 I.145 I.158 I.170 I.182 I.204 I.214 I.224 I.224 I.224 I.224 I.224 I.224 I.224 I.225 I.271 I.280 I.297 I.305	545.1 551.3 557.3 563.2 569.0 574.6 585.7 591.1 596.5 601.9 607.2 612.5 617.7 623.0 628.2 633.5	6.15 6.33 6.51 6.68 6.84 6.99 7.14 7.29 7.44 7.59 7.74 7.59 7.74 8.04 8.18 8.32 8.47 8.61	[18.4] 1.137 1.139 1.152 1.164 1.176 1.187 1.198 1.209 1.219 1.229 1.238 1.248 1.248 1.257 1.266 1.275 1.285 1.292 1.300	544.3 550.6 556.7 562.6 574.1 579.7 585.3 590.8 596.2 601.6 606.9 612.2 617.5 622.8 628.0 633.3	5.88 5.88 6.06 6.22 6.38 6.54 6.69 6.84 6.98 7.13 7.27 7.42 7.56 7.70 7.84 7.98 8.12 8.25	48 [20.3] I.133 I.146 I.158 I.170 I.182 I.203 I.213 I.223 I.233 I.242 I.233 I.242 I.250 I.260 I.269 I.278 I.286 I.295	550.0 556.1 562.0 567.9 573.6 579.3 584.9 590.4 595.9 601.3 606.6 611.9 617.2 622.5 627.8 633.1

.

Pres- sure	6 [22.1]		55 [26.4]		60 [30.5]				65 [34-3]	1 la		
Temp • F.	v	8	i	T	s	i	v	S	i	V	8	i
Sat.	5.67	1.130	544.3	5.18	1.122	545.3	4.77	1.114	546.3	4.42	1.107	547.2
30 40	5.80 5.96	1.140 1.153	549.4 555.5	5.23 5.38	1.126 1.139	547.6 554.0	4.90	 I.I27	552.5	4.50	1.115	551.0
50 60	6.11 6.26	1.165	561.5 567.4	5.52 5.66	1.151 1.163	560.1 566.1	5.03 5.16	1.139 1.151	558.8 564.9	4.62	1.128 1.140	557.4 563.6
70 80 90	6.41 6.55 6.69	1.187 1.198 1.208	573.2 578.9 584.5	5.80 5.93 6.06	1.174 1.185 1.196	572.0 577.8 583.5	5.29 5.41 5.53	1.162 1.173 1.184	570.9 576.8 582.6	4.86 4.97 5.08	1.151 1.162 1.173	569.7 575.7 581.6
100	6.83	1.218	590.0	6.19	1.206	589.1	5.65	1.194	588.2	5.19	1.184	587.3
110 120 130 140	6.97 7.11 7.24 7.38	1.228 1.237 1.246 1.255	595.5 601.0 606.4 611.7	6.32 6.45 6.57 6.69	1.216 1.225 1.234 1.244	594.7 600.2 605.6 611:0	5.77 5.88 6.00 6.11	1.204 1.214 1.223 1.233	593.8 599.4 604.9 610.4	5.30 5.41 5.52 5.63	1.194 1.204 1.213 1.222	593.0 598.7 604.2 609.7
150 160	7.51 7.65	1.264	617.0 622.3	6.81 6.94	1.253	616.4 621.7	6.22 6.34	1.242 1.250	615.8 621.1	5.73 5.84	I.23I I.240	615.2 620.6
170 180 190	7.78 7.91 8.04	1.281 1.290 1.298	627.6 632.9 638.1	7.06 7.18 7.30	1.270 1.278 1.286	627.0 632.3 637.6	6.46 6.57 6.68	1.259 1.267 1.275	626.5 631.8 637.1	5.95 6.05 6.15	1.249 1.257 1.265	626.0 631.3 636.6
200 210 220	8.17 8.30 8.43	1.306 1.314 1.321	643.3 648.6 653.9	7.42 7.54 7.66	1.294 1.302 1.310	642.9 648.2 653.5	6.79 6.90 7.01	1.283 1.291 1.299	642.4 647.7 653.0	6.26 6.36 6.46	1.274 1.282 1.289	641.9 647.3 652.6
240 260	8.69 8.95	1.336 1.351	664.4 674.8	7.89 8.13	1.325 1.340	664.0 674.4	7.22 7.44	1.315 1.329	663.6 674.1	6.66 6.86	1.305 1.320	663.2 673.7
280 300	9.21 9.47	1.365 1.380	685.2 695.7	8.37 8.60	1.354 1.368	684.9 695.4	7.66 7.87	1.344 1.358	684.6 695.1	7.06 7.26	1.334 1.348	684.3 694.9
and the second second												
		70 [37-9]			75 [41.3]			80 [44-5]			85 [47.6]	
Sat.	4.12		548.1	3.86		548.8	3.63		549-5	3.43		550.2
50 60	4.27 4.38	[37.9] 1.101 1.117 1.129	556.0 562.4	3.96 4.07	[41.3] 1.095 1.107 1.119	554.7 561.1	3.69 3.80	[44.5] 1.090 1.097 1.110	553·3 559·9	3.45 3.55	[47.6] 1.085 1.088 1.101	551.9 558.6
50	4.27	[37-9] 1.101 1.117	556.0	3.96	[41.3] 1.095 1.107	554.7	3.69	[44.5] 1.090 1.097	553.3	3.45	[47.6] 1.085 1.088	551.9
50 60 70 80 90 100 110	4.27 4.38 4.49 4.60 4.70 4.81 4.91	[37.9] I.IOI I.II7 I.I29 I.I4I I.I52	556.0 562.4 568.6 574.7	3.96 4.07 4.18 4.28 4.38 4.48 4.48 4.57	[41.3] I.095 I.107 I.119 I.131 I.143 I.154 I.165 I.175	554.7 561.1 567.4 573.6	3.69 3.80 3.90 4.00	[44.5] I.090 I.097 I.110 I.122 I.134 I.145 I.156 I.166	553.3 559.9 566.3 572.6 578.7 584.7 590.5	3.45 3.55 3.65 3.74	[47.6] I.085 I.088 I.101 I.113 I.125 I.137 I.148 I.158	551.9 558.6 565.1 571.5 577.7 583.8 589.7
50 60 70 80 90 100	4.27 4.38 4.49 4.60 4.70 4.81	[37.9] I.101 I.117 I.129 I.141 I.152 I.163 I.174	556.0 562.4 568.6 574.7 580.7 586.5	3.96 4.07 4.18 4.28 4.38 4.48	[41.3] I.095 I.107 I.119 I.131 I.143 I.154 I.165	554.7 561.1 567.4 573.6 579.7 585.6	3.69 3.80 3.90 4.00 4.09 4.18	[44.5] I.090 I.097 I.110 I.122 I.134 I.145 I.156	553.3 559.9 566.3 572.6 578.7 584.7	3.45 3.55 3.65 3.74 3.83 3.92	[47.6] I.085 I.088 I.101 I.113 I.125 I.137 I.148	551.9 558.6 565.1 571.5 577.7 583.8
50 60 70 80 90 100 110 120 130 140 150 160	4.27 4.38 4.49 4.60 4.70 4.81 4.91 5.01 5.11 5.21 5.21 5.31 5.41	[37.9] I.IOI I.II7 I.129 I.141 I.152 I.163 I.174 I.184 I.194 I.204 I.213 I.222 I.231	556.0 562.4 568.6 574.7 580.7 586.5 592.2 597.9 603.5 609.1 614.6 620.0	3.96 4.07 4.18 4.28 4.38 4.48 4.57 4.67 4.76 4.85 4.94 5.04	[41.3] 1.095 1.107 1.119 1.131 1.143 1.154 1.165 1.175 1.195 1.204 1.213 1.222	554.7 561.1 567.4 573.6 579.7 585.6 591.4 597.1 602.8 608.4 614.0 619.4	3.69 3.80 3.90 4.00 4.09 4.18 4.27 4.36 4.45 4.45 4.53 4.62 4.71	[44.5] I.090 I.097 I.110 I.122 I.134 I.145 I.156 I.176 I.176 I.176 I.176 I.196 I.205 I.214	553-3 559-3 566-3 572-6 578-7 584-7 590-5 596-3 602-1 607-8 613-4 613-4 618-9	3.45 3.55 3.65 3.74 3.83 3.92 4.00 4.09 4.17 4.25 4.34 4.42	[47.6] 1.085 1.088 1.101 1.113 1.125 1.137 1.148 1.158 1.158 1.178 1.188 1.197 1.206	551.9 558.6 565.1 571.5 577.7 583.8 589.7 595.6 601.4 607.1 612.7 618.3
50 60 70 80 90 100 110 120 130 140 150	4.27 4.38 4.49 4.60 4.70 4.81 4.91 5.01 5.11 5.21 5.31	[37.9] I.101 I.117 I.129 I.141 I.152 I.163 I.174 I.184 I.194 I.204 I.213 I.222	556.0 562.4 568.6 574.7 580.7 586.5 592.2 597.9 603.5 609.1 614.6	3.96 4.07 4.18 4.28 4.38 4.38 4.48 4.57 4.67 4.76 4.85 4.94	[41.3] 1.095 1.107 1.119 1.31 1.143 1.154 1.165 1.175 1.185 1.195 1.204 1.213	554.7 561.1 567.4 573.6 579.7 585.6 591.4 597.1 602.8 608.4 614.0	3.69 3.80 3.90 4.00 4.09 4.18 4.27 4.36 4.45 4.53 4.62	[44.5] I.090 I.097 I.110 I.122 I.134 I.145 I.156 I.166 I.176 I.186 I.196 I.205	553.3 559.9 566.3 572.6 578.7 584.7 590.5 596.3 602.1 607.8 613.4	3.45 3.55 3.65 3.74 3.83 3.92 4.00 4.09 4.17 4.25 4.34	[47.6] 1.085 1.088 1.101 1.113 1.125 1.137 1.148 1.158 1.168 1.178 1.188 1.197	551.9 558.6 565.1 571.5 577.7 583.8 589.7 595.6 601.4 607.1 612.7
50 60 70 80 90 110 120 130 140 150 160 170 180 190 200 210	4.27 4.38 4.49 4.60 4.70 4.81 4.91 5.01 5.11 5.21 5.31 5.41 5.51 5.60 5.60 5.70 5.80 5.89	[37.9] I.IOI I.II7 I.129 I.141 I.152 I.163 I.174 I.184 I.203 I.213 I.221 I.240 I.248 I.256 I.265 I.273	556.0 562.4 568.6 574.7 580.7 580.7 580.7 592.2 597.9 603.5 609.1 614.6 620.0 625.4 630.8 636.2 641.5 646.9	3.96 4.07 4.18 4.28 4.38 4.48 4.57 4.67 4.76 4.85 4.94 5.04 5.13 5.22 5.31 5.40 5.49	[41.3] I.095 I.107 I.119 I.131 I.143 I.154 I.165 I.175 I.185 I.195 I.204 I.213 I.222 I.231 I.240 I.248 I.256 I.264	554.7 561.1 567.4 573.6 579.7 585.6 591.4 597.1 602.8 608.4 614.0 614.0 624.8 630.3 635.7 641.0 644.0	3.69 3.80 3.90 4.09 4.18 4.27 4.36 4.45 4.45 4.45 4.45 4.45 4.45 4.53 4.62 4.71 4.79 4.88 4.96 5.04 5.13	[44.5] I.090 I.097 I.110 I.122 I.134 I.145 I.156 I.166 I.166 I.166 I.196 I.205 I.214 I.223 I.231 I.240 I.248 I.256	553-3 559-9 566.3 572.6 578.7 584.7 590.5 596.3 602.1 607.8 613.4 613.4 613.4 613.4 629.8 635.3 640.6 646.0	$\begin{array}{c} 3.45\\ 3.55\\ 3.65\\ 3.74\\ 3.83\\ 3.92\\ 4.00\\ 4.09\\ 4.17\\ 4.25\\ 4.34\\ 4.42\\ 4.50\\ 4.58\\ 4.66\\ 4.74\\ 4.82\\ \end{array}$	[47.6] I.085 I.088 I.101 I.113 I.125 I.137 I.148 I.158 I.168 I.168 I.178 I.188 I.197 I.206 I.215 I.224 I.232 I.240 I.248	551.9 558.6 565.1 571.5 577.7 583.8 589.7 595.6 601.4 607.1 612.7 612.7 612.3 623.8 629.3 634.8 640.2 645.6
50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200	4.27 4.38 4.49 4.60 4.70 4.81 4.91 5.01 5.01 5.01 5.21 5.31 5.41 5.51 5.50 5.70 5.80	[37.9] I.IOI I.II7 I.121 I.141 I.52 I.63 I.174 I.184 I.194 I.203 I.222 I.231 I.248 I.256 I.265	556.0 562.4 568.6 574.7 580.7 586.5 592.2 597.9 603.5 609.1 614.6 620.0 625.4 630.8 636.2 641.5	3.96 4.07 4.18 4.28 4.38 4.38 4.48 4.57 4.67 4.76 4.85 4.94 5.04 5.13 5.22 5.31 5.40	[41.3] 1.095 1.107 1.109 1.31 1.143 1.154 1.155 1.175 1.195 1.204 1.213 1.222 1.231 1.240 1.248 1.256	554.7 561.1 567.4 573.6 579.7 585.6 591.4 597.1 602.8 608.4 614.0 619.4 624.8 630.3 635.7 641.0	3.69 3.80 3.90 4.09 4.18 4.27 4.36 4.45 4.45 4.45 4.45 4.53 4.62 4.71 4.79 4.88 4.96 5.04	[44.5] 1.090 1.097 1.100 1.122 1.134 1.145 1.156 1.166 1.176 1.186 1.196 1.205 1.214 1.223 1.231 1.240 1.248	553.3 559.9 566.3 572.6 578.7 584.7 590.5 596.3 602.1 607.8 613.4 618.9 624.3 629.8 635.3 640.6	$\begin{array}{c} 3.45\\ 3.55\\ 3.65\\ 3.74\\ 3.83\\ 3.92\\ 4.00\\ 4.09\\ 4.17\\ 4.25\\ 4.34\\ 4.42\\ 4.50\\ 4.58\\ 4.66\\ 4.74\\ \end{array}$	[47.6] 1.085 1.088 1.101 1.113 1.125 1.137 1.148 1.158 1.158 1.168 1.178 1.188 1.197 1.206 1.215 1.224 1.232 1.240	551.9 558.6 565.1 571.5 577.7 583.8 589.7 595.6 601.4 607.1 612.7 618.3 623.8 629.3 634.8 640.2
50 60 70 80 90 110 120 130 140 150 160 170 180 190 200 210 220 230	4.27 4.38 4.49 4.60 4.70 4.81 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.0	[37.9] I.IOI I.II7 I.129 I.141 I.52 I.63 I.174 I.184 I.94 I.204 I.213 I.222 I.231 I.240 I.248 I.256 I.2655 I.273 I.280 I.288	556.0 562.4 568.6 574.7 580.7 586.5 592.2 597.9 603.5 609.1 614.6 620.0 625.4 630.8 636.2 641.5 646.5 646.2 645.2 645.2	3.96 4.07 4.18 4.28 4.38 4.38 4.48 4.57 4.67 4.76 4.85 4.94 5.04 5.13 5.22 5.31 5.40 5.49 5.58 5.66	[41.3] I.095 I.107 I.119 I.31 I.143 I.154 I.165 I.175 I.195 I.204 I.213 I.222 I.231 I.220 I.248 I.256 I.264 I.272 I.280	554.7 561.1 567.4 573.6 579.7 585.6 591.4 597.1 602.8 608.4 614.0 619.4 630.3 635.7 641.0 646.4 651.7 657.1	3.69 3.80 3.90 4.00 4.09 4.18 4.27 4.36 4.45 4.45 4.45 4.45 4.45 4.45 4.71 4.79 4.88 4.96 5.04 5.04 5.22 5.30	[44.5] 1.090 1.097 1.100 1.122 1.134 1.145 1.156 1.166 1.176 1.186 1.196 1.205 1.214 1.223 1.248 1.256 1.264 1.272	553-3 559-3 572-6 578-7 584-7 590-5 596-3 602-1 607-8 613-4 618-9 624-3 629-8 635-3 640-6 646-0 651-3 656-7	3.45 3.55 3.65 3.74 3.83 3.92 4.00 4.09 4.17 4.25 4.34 4.42 4.58 4.58 4.58 4.66 4.74 4.82 4.90 4.98	[47.6] 1.085 1.088 1.101 1.113 1.125 1.137 1.148 1.158 1.168 1.178 1.178 1.188 1.197 1.206 1.215 1.224 1.232 1.240 1.248 1.256 1.264	551.9 558.6 565.1 571.5 577.7 583.8 589.7 595.6 601.4 607.1 612.7 618.3 629.3 634.8 640.2 645.6 650.9 656.3

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Pres- sure	e [50.5]		1	95 [53-3]			100 [56.0]			105 [58.6]		
Temp • F.	v	s	i	v	s	i	v	S	i	V	s	i
Sat.	3.25	1.080	550.9	3.08	1.075	551.5	2.94	1.071	552.1	2.80	1.067	552.6
60 70 80 90	3.33 3.42 3.51 3.60	1.092 1.105 1.117 1.129	557.4 564.0 570.5 576.8	3.14 3.23 3.31 3.40	1.084 1.097 1.109 1.121	556.1 562.8 569.4 575.8	2.97 3.05 3.13 3.21	1.076 1.089 1.102 1.114	554.9 561.7 568.4 574.8	2.81 2.89 2.97 3.05	1.069 1.082 1.095 1.107	553.6 560.6 567.3 573.8
100 110 120 130 140	3.69 3.77 3.85 3.93 4.01	1.140 1.150 1.161 1.171 1.180	582.9 588.9 594.9 600.7 606.4	3.48 3.56 3.63 3.71 3.79	1.132 1.143 1.153 1.163 1.173	582.0 588.1 594.1 600.0 605.8	3.29 3.37 3.44 3.52 3.59	1.125 1.136 1.146 1.156 1.166	581.1 587.2 593.3 599.3 605.1	3.13 3.20 3.27 3.34 3.41	1.118 1.129 1.140 1.150 1.160	580.2 586.4 592.5 598.5 604.4
150 160 170 180 190	4.09 4.17 4.24 4.32 4.40	1.190 1.199 1.208 1.217 1.225	612.1 617.7 623.3 628.8 634.3	3.86 3.94 4.01 4.08 4.16	1.183 1.192 1.201 1.210 1.218	611.5 617.1 622.7 628.3 633.8	3.66 3.73 3.80 3.87 3.94	1.176 1.185 1.194 1.203 1.212	610.8 616.5 622.2 627.8 633.4	3.48 3.54 3.61 3.68 3.74	1.170 1.179 1.188 1.197 1.206	610.2 616.0 621.7 627.3 632.9
200 210 220 230 240	4.47 4.55 4.62 4.70 4.77	1.233 1.241 1.249 1.257 1.265	639.8 645.2 650.6 656.0 661.3	4.23 4.30 4.37 4.44 4.51	1.226 1.235 1.243 1.251 1.259	639.3 644.8 650.2 655.6 661.0	4.01 4.08 4.15 4.21 4.28	1.220 1.228 1.236 1.244 1.252	638.9 644.4 649.8 655.3 660.7	3.81 3.87 3.94 4.00 4.07	1.214 1.222 1.230 1.238 1.246	638.5 644.0 649.4 654.9 660.4
260 280 300 320 340	4.92 5.06 5.21 5.36 5.50	1.280 1.295 1.309 1.323 1.337	672.1 682.8 693.5 704.2 714.9	4.65 4.79 4.93 5.07 5.20	1.274 1.288 1.303 1.317 1.330	671.8 682.5 693.2 704.0 714.8	4.41 4.54 4.67 4.80 4.93	1.268 1.282 1.297 1.311 1.324	671.5 682.2 693.0 703.8 714.6	4.19 4.31 4.44 4.56 4.68	1.261 1.276 1.291 1.305 1.318	671.2 682.0 692.8 703.6 714.5
		110 [61.1]			115 [63.6]			120 [65.8]			125 [68.1]	
Sat.	2.68	1.063	553.1	2.57	1.059	553.6	2.47	1.056	554.1	2.37	1.052	554.6
70 80 90	2.75 2.83 2.90	1.075 1.088 1.100	559.4 566.2 572.9	2.63 2.70 2.77	1.068 1.081 1.093	558.3 565.2 571.9	2.50 2.57 2.64	1.061 1.074 1.087	557.1 564.1 570.9	2.38 2.45 2.52	1.055 1.068 1.081	555.9 563.0 569.9
100	2.97	* ***										
120 130 140	3.04 3.11 3.17 3.24	1.111 1.122 1.133 1.144 1.154	579.3 585.5 591.7 597.8 603.7	2.84 2.90 2.97 3.03 3.10	1.105 1.116 1.127 1.138 1.148	578.4 584.7 590.9 597.0 603.0	2.71 2.77 2.83 2.90 2.96	1.099 1.110 1.121 1.132 1.142	577.5 583.9 590.2 596.3 602.4	2.59 2.65 2.71 2.77 2.83	1.093 1.104 1.115 1.126 1.136	576.6 583.1 589.4 595.6 601.7
120 130	3.11 3.17	1.122 1.133 1.144	585.5 591.7 597.8	2.90 2.97 3.03	1.116 1.127 1.138	584.7 590.9 597.0	2.77 2.83 2.90	1.110 1.121 1.132	577.5 583.9 590.2 596.3	2.65 2.71 2.77	1.093 1.104 1.115 1.126	583.1 589.4 595.6
120 130 140 150 160 170 180	3.11 3.17 3.24 3.31 3.37 3.43 3.50	I.122 I.133 I.144 I.154 I.164 I.173 I.182 I.191	585.5 591.7 597.8 603.7 609.6 615.4 621.1 626.8	2.90 2.97 3.03 3.10 3.16 3.22 3.28 3.34	1.116 1.127 1.138 1.148 1.158 1.167 1.176 1.185	584.7 590.9 597.0 603.0 609.0 614.8 620.6 626.3	2.77 2.83 2.90 2.96 3.02 3.08 3.14 3.19	1.110 1.121 1.132 1.142 1.152 1.161 1.171 1.180	577.5 583.9 590.2 596.3 602.4 608.4 614.3 620.1 625.8	2.65 2.71 2.77 2.83 2.89 2.95 3.01 3.06	1.093 1.104 1.115 1.126 1.136 1.146 1.156 1.165 1.174	583.1 589.4 595.6 601.7 607.8 613.7 619.6 625.4
120 130 140 150 160 170 180 190 200 210 220 230	3.11 3.17 3.24 3.31 3.37 3.43 3.50 3.56 3.62 3.69 3.75 3.81	I.122 I.133 I.144 I.154 I.164 I.173 I.182 I.191 I.200 I.208 I.216 I.225 I.223	585.5 591.7 597.8 603.7 609.6 615.4 621.1 626.8 632.4 638.0 643.5 643.5 649.0 654.5	2.90 2.97 3.03 3.10 3.16 3.22 3.28 3.34 3.40 3.46 3.52 3.58 3.64	I.IIĞ I.I27 I.I38 I.I48 I.I58 I.I67 I.I76 I.I76 I.194 I.203 I.211 I.219 I.227	584.7 590.9 597.0 603.0 609.0 614.8 620.6 626.3 632.0 637.6 643.1 648.6 654.2	2.77 2.83 2.90 2.96 3.02 3.08 3.14 3.19 3.25 3.31 3.36 3.342 3.48	I.IIO I.I2I I.I32 I.I42 I.I52 I.I61 I.171 I.180 I.188 I.197 I.205 I.214 I.222	577.5 583.9 590.2 596.3 602.4 608.4 614.3 620.1 625.8 631.5 637.1 642.7 648.2 653.8	2.65 2.71 2.77 2.83 2.89 2.95 3.01 3.06 3.11 3.17 3.22 3.28 3.34	1.093 1.104 1.115 1.126 1.136 1.156 1.155 1.174 1.183 1.192 1.200 1.209 1.217	583.1 589.4 595.6 601.7 607.8 613.7 619.6 625.4 631.1 636.7 642.3 647.9 653.6

Pres-				135				2, 1, 2	1	145	2 0 0 7 1 3 2 0 0 7 3 3 3 1 3 3 3 3 3 3 3 1	
sure	14	[70.4]			[72.5]			[74.5]			[76.5]	
°F.	v	8	i	▼	S	i	v	S	i	v	8	i '
Sat.	2.28	1.049	555.0	2.20	1.046	555.5	2.12	1.043	555.9	2.06	1.040	556.3
80	2.35	1.062	562.0	2.25	1.056	560.9	2.16	1.050	559.9	2.08	1.045	558.9
90	2.42	1.075	568.9	2.32	1.069	567.9	,2.23	1.064	566.9	2.14	1.058	566.0
100	2.48	1.087		2.38	1.081	574.8	2.29	1.076	572.0	2.20	1.071	572.0
110	2.40	1.099	575.7 582.3	2.44	1.001	581.5	2.35	1.088	573.9 580.7	2.25	1.083	573.0 579.9
I 20	2.60	I.IIO	588.7	2.50	1.105	587.9	2.40	1.099	587.2	2.30	1.094	586.5
130	2.66	1.121	594.9	2.55	1.115	594.2	2.46	1.110	593.5	2.36	1.105	592.9
140	2.72	1.131	601.1	2.61	1.126	600.4	2.51	1.121	599.8	2.41	1.116	599.2
150	2.77	1.141	607.2	2.66	1.136	606.5	2.56	1.131	605.9	2.46	1.126	605.3
160	2.83	1.141	613.1	2.00	1.130	612.5	2.50	1.131 1.141	611.9	2.40	1.136	611.4
170	2.89	1.160	619.0	2.78	1.155	618.4	2.67	1.150	617.9	2.57	1.146	617.4
180	2.94	1.169	624.8	2.83	1.164	624.3	2.72	1.159	623.8	2.62	1.155	623.3
190	2.99	1.178	630.6	2.88	1.173	630.1	2.77	1.168	629.6	2.67	1.164	629.2
200	2.07	1.187	636.2	0.00	1.182	6058	2.82		607.0	0.70	7 7 7 7 9	624.0
210	3.05	1.107	641.9	2.93 2.98	1.182	635.8 641.5	2.82	1.177 1.186	635.3 641.0	2.72 2.76	1.173 1.181	634.9 640.6
220	3.15	1.204	647.5	3.03	1.190	647.1	2.92	1.100	646.7	2.81	1.190	646.3
230	3.21	1.212	653.2	3.08	1.207	652.8	2.97	1.202	652.4	2.86	1.198	652.0
240	3.26	I.220	658.8	3.13	1.215	658.4	3.01	1.210	658.1	2.90	1.206	657.7
250		1.227	664.4	3.18	T 000	664.0	3.06	1.218	663.7	2.04	1.214	663.3
260	3.31 3.36	1.235	669.9	3.23	I.223 I.23I	669.6	3.00	1.210	669.2	2.94	1.214	668.9
280	3.30	1.250	680.8	3.33	1.246	680.5	3.20	1.241	680.2	3.08	1.237	679.9
300	3.57	1.265	691.7	3.43	1.260	691.4	3.30	1.256	691.1	3.18	1.251	690.8
320	3.67	1.279	702.6	3.53	1.274	702.3	3.39	1.270	702.0	3.27	1.266	701.7
340	3.77	1.293	713.5	3.62	1.288	713.2	3.48	1.284	713.0	3.36	1.279	712.7
360	3.87	1.306	724.3	3.72	1.301	724.1	3.58	1.297	723.9	3.45	1.293	723.6
							1	1		•		
		150			155			160			165	
		150 [78.5]			155 [80.4]			160 [82.3]			165 [84.1]	
Sat.	1.99		556.7	1.93		557.0	1.87		557-4	1.81		557.7
Sat. 90	1.99 2.06	[78.5]	556.7 565.0	1.93 1.99	[80.4]	557.0 564.0	1.87	[82.3]	557.4 563.1	1.81	[84.1]	557.7 562.1
		[78.5] 1.038	1		[80.4]			[82.3]			[84.1]	562.1 569.4
90	2.06	[78.5] 1.038 1.053 1.066 1.078	565.0	1.99	[80.4] 1.035 1.048	564.0	1.92	[82.3] 1.032 1.043 1.056 1.068	563.1	1.85	[84.1] 1.030 1.038 1.051 1.063	
90 100 110 120	2.06 2.12 2.17 2.22	[78.5] 1.038 1.053 1.066 1.078 1.089	565.0 572.1 579.0 585.7	1.99 2.04 2.09 2.14	[80.4] I.035 I.048 I.061 I.073 I.085	564.0 571.2 578.2 585.0	1.92 1.97 2.02 2.07	[82.3] 1.032 1.043 1.056 1.068 1.080	563.1 570.3 577.4 584.2	1.85 1.90 1.95 2.00	[84.1] 1.030 1.038 1.051 1.063 1.075	562.1 569.4 576.6 583.4
90 100 110 120 130	2.06 2.12 2.17 2.22 2.27	[78.5] I.038 I.053 I.066 I.078 I.089 I.100	565.0 572.1 579.0 585.7 592.1	1.99 2.04 2.09 2.14 2.19	[80.4] 1.035 1.048 1.061 1.073 1.085 1.096	564.0 571.2 578.2 585.0 591.4	1.92 1.97 2.02 2.07 2.12	[82.3] 1.032 1.043 1.056 1.068 1.080 1.091	563.1 570.3 577.4 584.2 590.7	1.85 1.90 1.95 2.00 2.05	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086	562.1 569.4 576.6 583.4 590.0
90 100 110 120	2.06 2.12 2.17 2.22	[78.5] 1.038 1.053 1.066 1.078 1.089	565.0 572.1 579.0 585.7	1.99 2.04 2.09 2.14	[80.4] I.035 I.048 I.061 I.073 I.085	564.0 571.2 578.2 585.0	1.92 1.97 2.02 2.07	[82.3] 1.032 1.043 1.056 1.068 1.080	563.1 570.3 577.4 584.2	1.85 1.90 1.95 2.00	[84.1] 1.030 1.038 1.051 1.063 1.075	562.1 569.4 576.6 583.4
90 100 110 120 130	2.06 2.12 2.17 2.22 2.27	[78.5] I.038 I.053 I.066 I.078 I.089 I.100	565.0 572.1 579.0 585.7 592.1	1.99 2.04 2.09 2.14 2.19	[80.4] 1.035 1.048 1.061 1.073 1.085 1.096	564.0 571.2 578.2 585.0 591.4	1.92 1.97 2.02 2.07 2.12	[82.3] 1.032 1.043 1.056 1.068 1.080 1.091	563.1 570.3 577.4 584.2 590.7	1.85 1.90 1.95 2.00 2.05	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086	562.1 569.4 576.6 583.4 590.0
90 100 110 120 130 140	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43	[78.5] 1.038 1.053 1.066 1.078 1.089 1.100 1.111	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8	1.99 2.04 2.09 2.14 2.19 2.25	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2	1.92 1.97 2.02 2.07 2.12 2.17	[82.3] 1.032 1.043 1.056 1.068 1.080 1.091 1.102	563.1 570.3 577.4 584.2 590.7 597.2	1.85 1.90 1.95 2.00 2.05 2.10	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1
90 100 110 120 130 140 150 160 170	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.48	[78.5] 1.038 1.053 1.066 1.078 1.089 1.100 1.111 1.121 1.131 1.141	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39	[80.4] 1.035 1.048 1.061 1.073 1.086 1.107 1.107 1.117 1.127 1.137	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3	1.92 1.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31	[82.3] 1.032 1.043 1.056 1.068 1.080 1.091 1.102 1.112 1.122 1.132	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3
90 100 110 120 130 140 150 160 170 180	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.48 2.53	[78.5] I.038 I.053 I.066 I.078 I.080 I.100 I.111 I.121 I.131 I.141 I.150	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 622.8	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.107 I.117 I.127 I.137 I.146	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36	[82.3] I.032 I.043 I.056 I.068 I.080 I.091 I.102 I.122 I.122 I.132 I.142	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128 1.138	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 615.3 621.3
90 100 110 120 130 140 150 160 170	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.48	[78.5] 1.038 1.053 1.066 1.078 1.089 1.100 1.111 1.121 1.131 1.141	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39	[80.4] 1.035 1.048 1.061 1.073 1.086 1.107 1.107 1.117 1.127 1.137	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3	1.92 1.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31	[82.3] 1.032 1.043 1.056 1.068 1.080 1.091 1.102 1.112 1.122 1.132	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3
90 100 110 120 130 140 150 160 170 180	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.48 2.53	[78.5] I.038 I.053 I.066 I.078 I.080 I.100 I.111 I.121 I.131 I.141 I.150	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 622.8 628.7	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.107 I.117 I.127 I.137 I.146	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36	[82.3] I.032 I.043 I.056 I.068 I.080 I.091 I.102 I.122 I.122 I.132 I.142	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128 1.138	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 615.3 621.3
90 100 110 120 130 140 150 160 170 180 190	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.48 2.53 2.57 2.62 2.67	[78.5] I.038 I.053 I.066 I.078 I.089 I.100 I.111 I.121 I.131 I.141 I.150 I.159 I.168 I.177	565.0 572.1 579.0 585.7 598.5 604.7 610.8 616.8 622.8 628.7 634.5 634.5	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.58	[80.4] 1.035 1.048 1.061 1.073 1.085 1.096 1.107 1.117 1.127 1.137 1.146 1.155	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49	[82.3] I.032 I.043 I.056 I.068 I.080 I.091 I.102 I.112 I.122 I.132 I.142 I.151	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 627.8	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128 1.128 1.138 1.147	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 621.3 627.3
90 100 110 120 130 140 150 160 170 180 190 200 210 220	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.43 2.48 2.53 2.57 2.62 2.67 2.71	[78.5] I.038 I.053 I.066 I.078 I.080 I.100 I.111 I.121 I.131 I.141 I.150 I.159 I.168 I.177 I.185	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 616.8 622.8 628.7 634.5 640.2 645.9	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.58 2.58 2.62	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.164 I.173 I.181	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49 2.53	[82.3] 1.032 1.043 1.056 1.068 1.091 1.102 1.122 1.132 1.151 1.160 1.169 1.177	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 621.8 627.8 633.6 639.4 639.4 645.1	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.45	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.128 1.128 1.138 1.147 1.156 1.165 1.173	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 621.3 627.3 633.2 639.0 639.0 644.7
90 100 110 120 130 140 150 160 170 180 190 200 210 220 230	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.43 2.43 2.53 2.57 2.62 2.62 2.67 2.71 2.76	[78.5] 1.038 1.053 1.066 1.078 1.089 1.100 1.111 1.121 1.131 1.141 1.150 1.159 1.168 1.177 1.185 1.194	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 622.8 622.8 628.7 634.5 640.2 645.9 651.6	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.58 2.62 2.66	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.164 I.173 I.181 I.189	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5 651.2	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49 2.53 2.57	[82.3] I.032 I.043 I.056 I.068 I.080 I.091 I.102 I.112 I.122 I.132 I.142 I.151 I.160 I.160 I.177 I.185	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 627.8 633.6 639.4 645.1 650.8	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.45 2.49	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128 1.128 1.128 1.147 1.156 1.173 1.73 1.731	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 627.3 633.2 633.2 633.2 633.0 644.7 650.4
90 100 110 120 130 140 150 160 170 180 190 200 210 220	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.43 2.48 2.53 2.57 2.62 2.67 2.71	[78.5] I.038 I.053 I.066 I.078 I.080 I.100 I.111 I.121 I.131 I.141 I.150 I.159 I.168 I.177 I.185	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 616.8 622.8 628.7 634.5 640.2 645.9	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.58 2.58 2.62	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.164 I.173 I.181	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49 2.53	[82.3] 1.032 1.043 1.056 1.068 1.091 1.102 1.122 1.132 1.151 1.160 1.169 1.177	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 621.8 627.8 633.6 639.4 639.4 645.1	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.45	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.128 1.128 1.138 1.147 1.156 1.165 1.173	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 621.3 627.3 633.2 639.0 639.0 644.7
90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.43 2.43 2.53 2.57 2.62 2.62 2.67 2.71 2.76	[78.5] 1.038 1.053 1.066 1.078 1.089 1.100 1.111 1.121 1.131 1.141 1.150 1.159 1.168 1.177 1.185 1.194	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 616.8 622.8 628.7 634.5 640.2 645.9 651.6 657.3 662.9	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.58 2.62 2.66	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.164 I.173 I.181 I.189	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5 651.2	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49 2.53 2.57	[82.3] I.032 I.043 I.056 I.068 I.080 I.091 I.102 I.112 I.122 I.132 I.142 I.151 I.160 I.160 I.177 I.185	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 627.8 633.6 639.4 645.1 650.8	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.45 2.49	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128 1.128 1.128 1.147 1.156 1.173 1.73 1.731	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 627.3 633.2 633.2 633.2 633.0 644.7 650.4
90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.43 2.43 2.53 2.57 2.62 2.67 2.71 2.76 2.81 2.85 2.90	[78.5] 1.038 1.053 1.066 1.078 1.089 1.100 1.111 1.121 1.131 1.141 1.150 1.159 1.168 1.177 1.185 1.194 1.202 1.210 1.217	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 622.8 622.8 628.7 634.5 640.2 645.9 651.6 657.3 662.9 668.5	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.58 2.62 2.66 2.71 2.75 2.80	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.64 I.173 I.181 I.189 I.198 I.206 I.213	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5 651.2 656.9 662.5 668.1	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49 2.53 2.57 2.62 2.66 2.71	[82.3] I.032 I.043 I.056 I.068 I.091 I.102 I.12 I.132 I.142 I.151 I.160 I.169 I.177 I.855 I.94 I.202 I.202 I.202	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 627.8 633.6 639.4 645.1 650.8 656.5 662.1 667.7	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.45 2.49 2.53 2.58 2.62	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128 1.128 1.128 1.128 1.147 1.156 1.173 1.181 1.190 1.198 1.205	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 627.3 633.2 633.2 633.2 633.0 644.7 650.4 656.1 661.7 667.3
90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 280	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.43 2.43 2.43 2.53 2.57 2.62 2.62 2.67 2.71 2.76 2.81 2.85 2.90 2.98	[78.5] I.038 I.053 I.066 I.078 I.089 I.100 I.111 I.121 I.131 I.141 I.150 I.159 I.168 I.177 I.185 I.194 I.202 I.210 I.217 I.233	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 622.8 628.7 634.5 640.2 645.9 651.6 657.3 662.9 668.5 679.6	I.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.53 2.62 2.66 2.71 2.75 2.80 2.88	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.164 I.173 I.189 I.198 I.206 I.213 I.229	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5 651.2 656.9 662.5 668.1 679.2	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49 2.53 2.57 2.62 2.66 2.71 2.79	[82.3] 1.032 1.043 1.056 1.068 1.080 1.02 1.102 1.122 1.132 1.142 1.151 1.60 1.610 1.160 1.161 1.194 1.202 1.225	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 627.8 633.6 639.4 645.1 650.8 656.5 662.1 667.7 678.9	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.49 2.53 2.58 2.62 2.70	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.128 1.128 1.128 1.138 1.147 1.156 1.165 1.165 1.165 1.181 1.190 1.198 1.205	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 621.3 627.3 633.2 633.2 633.0 644.7 650.4 656.1 661.7 667.3 678.5
90 100 110 120 130 140 150 160 170 180 210 220 230 240 250 260 280 300	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.43 2.43 2.48 2.53 2.48 2.53 2.62 2.67 2.77 2.76 2.81 2.85 2.90 2.98 3.07	[78.5] I.038 I.053 I.066 I.078 I.089 I.100 I.111 I.121 I.131 I.141 I.150 I.159 I.168 I.177 I.185 I.194 I.202 I.210 I.210 I.233 I.247	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 622.8 628.7 634.5 645.2 645.9 651.6 657.3 662.9 668.5 679.6 690.5	I.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.58 2.66 2.71 2.75 2.80 2.88 2.88 2.97	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.164 I.173 I.189 I.198 I.206 I.229 I.243	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5 651.2 656.9 662.5 668.1 679.2 690.2	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49 2.53 2.57 2.62 2.66 2.71 2.79 2.87	[82.3] 1.032 1.043 1.056 1.068 1.091 1.102 1.12 1.122 1.132 1.142 1.151 1.160 1.177 1.185 1.194 1.202 1.225 1.239	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 627.8 633.6 639.4 645.1 650.8 656.5 662.1 667.7 678.9 689.9	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.45 2.49 2.53 2.58 2.62 2.70 2.78	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128 1.138 1.147 1.156 1.165 1.173 1.181 1.190 1.198 1.221 1.235	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 621.3 627.3 633.2 633.2 639.0 644.7 650.4 656.1 661.7 667.3 678.5 689.6
90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 280	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.43 2.43 2.43 2.53 2.57 2.62 2.62 2.67 2.71 2.76 2.81 2.85 2.90 2.98	[78.5] I.038 I.053 I.066 I.078 I.089 I.100 I.111 I.121 I.131 I.141 I.150 I.159 I.168 I.177 I.185 I.194 I.202 I.210 I.217 I.233	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 622.8 628.7 634.5 640.2 645.9 651.6 657.3 662.9 668.5 679.6	I.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.53 2.62 2.66 2.71 2.75 2.80 2.88	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.164 I.173 I.189 I.198 I.206 I.213 I.229	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5 651.2 656.9 662.5 668.1 679.2	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49 2.53 2.57 2.62 2.66 2.71 2.79	[82.3] 1.032 1.043 1.056 1.068 1.080 1.02 1.102 1.122 1.132 1.142 1.151 1.60 1.610 1.160 1.161 1.194 1.202 1.225	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 627.8 633.6 639.4 645.1 650.8 656.5 662.1 667.7 678.9	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.49 2.53 2.58 2.62 2.70	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.128 1.128 1.128 1.138 1.147 1.156 1.165 1.165 1.165 1.181 1.190 1.198 1.205	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 621.3 627.3 633.2 633.2 633.0 644.7 650.4 656.1 661.7 667.3 678.5
90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 250 320 340	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.43 2.43 2.48 2.53 2.48 2.53 2.62 2.67 2.77 2.76 2.81 2.85 2.90 2.98 3.07	[78.5] I.038 I.053 I.066 I.078 I.089 I.100 I.111 I.121 I.131 I.141 I.150 I.159 I.168 I.177 I.185 I.194 I.202 I.210 I.210 I.233 I.247	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 622.8 628.7 634.5 645.2 645.9 651.6 657.3 662.9 668.5 679.6 690.5	I.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.58 2.66 2.71 2.75 2.80 2.88 2.88 2.97	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.164 I.173 I.189 I.198 I.206 I.229 I.243	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5 651.2 656.9 662.5 668.1 679.2 690.2	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49 2.53 2.57 2.62 2.66 2.71 2.79 2.87	[82.3] 1.032 1.043 1.056 1.068 1.091 1.102 1.12 1.122 1.132 1.142 1.151 1.160 1.177 1.185 1.194 1.202 1.225 1.239	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 627.8 633.6 639.4 645.1 650.8 656.5 662.1 667.7 678.9 689.9	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.45 2.49 2.53 2.58 2.62 2.70 2.78	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128 1.138 1.147 1.156 1.165 1.173 1.181 1.190 1.198 1.221 1.235	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 621.3 627.3 633.2 633.2 639.0 644.7 650.4 656.1 661.7 667.3 678.5 689.6
90 100 110 120 130 140 150 160 170 180 190 210 220 230 240 250 260 280 300 320 340 360	2.06 2.12 2.17 2.22 2.27 2.33 2.43 2.43 2.43 2.43 2.53 2.57 2.62 2.67 2.71 2.76 2.81 2.85 2.90 2.98 3.07 3.16	[78.5] 1.038 1.053 1.066 1.078 1.089 1.100 1.111 1.121 1.131 1.141 1.150 1.159 1.168 1.177 1.185 1.194 1.202 1.210 1.217 1.233 1.247 1.261 1.275 1.289	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 622.8 628.7 634.5 640.2 645.9 651.6 657.3 662.9 668.5 679.6 690.5 701.4	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.58 2.62 2.66 2.71 2.75 2.80 2.88 2.97 3.06	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.164 I.173 I.181 I.189 I.206 I.213 I.227 I.271 I.285	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5 651.2 656.9 662.5 668.1 679.2 690.2 701.2	1.92 1.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.53 2.57 2.62 2.66 2.71 2.79 2.87 2.96	[82.3] 1.032 1.043 1.056 1.068 1.080 1.02 1.12 1.122 1.132 1.142 1.151 1.160 1.169 1.177 1.185 1.202 1.225 1.239 1.254 1.268 1.281	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 627.8 633.6 639.4 639.4 645.1 650.8 656.5 662.1 667.7 678.9 689.9 700.9	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.49 2.53 2.58 2.62 2.70 2.78 2.86 2.94 3.02	[84.1] 1.030 1.038 1.051 1.063 1.075 1.086 1.097 1.108 1.118 1.128 1.138 1.128 1.138 1.147 1.156 1.165 1.165 1.1731 1.181 1.190 1.198 1.225 1.250 1.264 1.277	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 621.3 627.3 633.2 639.0 644.7 650.4 650.4 656.1 661.7 667.3 678.5 689.6 700.6
90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 250 320 340	2.06 2.12 2.17 2.22 2.27 2.33 2.38 2.43 2.43 2.43 2.43 2.53 2.57 2.62 2.67 2.71 2.76 2.81 2.85 2.90 2.98 3.07 3.16 3.24	[78.5] 1.038 1.053 1.066 1.078 1.089 1.100 1.111 1.121 1.131 1.141 1.150 1.159 1.168 1.177 1.194 1.202 1.210 1.217 1.233 1.247 1.261 1.275	565.0 572.1 579.0 585.7 592.1 598.5 604.7 610.8 616.8 622.8 622.8 628.7 634.5 640.2 645.9 651.6 657.3 662.9 668.5 679.6 690.5 701.4 712.4	1.99 2.04 2.09 2.14 2.19 2.25 2.30 2.35 2.39 2.44 2.48 2.53 2.58 2.62 2.66 2.71 2.75 2.80 2.88 2.97 3.06 3.14	[80.4] I.035 I.048 I.061 I.073 I.085 I.096 I.107 I.117 I.127 I.137 I.146 I.155 I.164 I.173 I.189 I.198 I.206 I.213 I.229 I.243 I.257 I.271	564.0 571.2 578.2 585.0 591.4 597.8 604.1 610.2 616.3 622.3 628.2 634.0 639.8 645.5 651.2 656.9 662.5 668.1 679.2 690.2 701.2 712.2	I.92 I.97 2.02 2.07 2.12 2.17 2.22 2.27 2.31 2.36 2.40 2.44 2.49 2.53 2.57 2.62 2.66 2.71 2.79 2.87 2.96 3.04	[82.3] 1.032 1.043 1.056 1.068 1.080 1.02 1.102 1.102 1.12 1.12 1.12 1.151 1.160 1.161 1.177 1.185 1.194 1.202 1.239 1.254 1.268	563.1 570.3 577.4 584.2 590.7 597.2 603.5 609.7 615.8 621.8 627.8 633.6 639.4 645.1 650.8 656.5 662.1 667.7 678.9 689.9 700.9 711.9	1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.24 2.28 2.32 2.36 2.41 2.45 2.49 2.53 2.58 2.62 2.70 2.78 2.86 2.94	[84.1] 1.030 1.038 1.051 1.063 1.075 1.063 1.075 1.080 1.097 1.108 1.128 1.138 1.138 1.147 1.156 1.165 1.173 1.181 1.190 1.198 1.205 1.211 1.235 1.250 1.264	562.1 569.4 576.6 583.4 590.0 596.5 602.9 609.1 615.3 627.3 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 633.2 634.7 650.4 656.1 661.7 667.3 678.5 689.6 700.6 711.7

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12.14

Pressure	e [85.9]			[89.4]		190 [92.7]				200 [95.9]		
Temp ° F.	v	8	i	V	S	i	v	S	i	V	S	i
Sat.	1.76	1.027	558.1	1.67	1.023	558.8	1.58	1.018	559.4	1.50	1.014	560.0
90	1.78	1.033	561.1	1.67	1.024	559.2						
100	1.83	1.046	568.5	1.72	1.037	566.7	1.62	1.028	564.9	1.52	1.020	563.1
110	1.88	1.059	575.7	1.77	1.050	574.0	1.67	1.041	572.3	1.57	1.033	570.7
120	1.93	1.071	582.6	1.81	1.062	581.1	1.71	1.054	579.6	1.61	1.046	578.1
130	1.98	1.082	589.3	1.86	1.074	587.9	1.75	1.066	586.5	1.65	1.058	585.1
140	2.03	1.093	595.8	1.90	1.085	594.5	1.79	1.077	593.1	1.69	1.069	591.7
150	2.08	1.104	602.2	1.94	1.096	600.9	1.83	1.088	599.7	1.73	1.080	598.4
160	2.13	1.114	608.5	1.99	1.106	607.4	1.87	1.098	606.2	1.77	1.091	605.0
170	2.17	1.124	614.7	2.03	1.116	613.6	1.91	1.108	612.5	1.81	1.101	611.4
180	2.21	1.134	620.8	2.07	1.126	619.7	1.95	1.118	618.7	1.85	1.111	617.7
190	2.25	1.143	626.8	2.11	1.135	625.8	1.99	1.128	624.8	1.89	1.121	623.9
200	2.29	1.152	632.7	2.15	1.144	631.8	•2.03	1.137	630.9	1.92	1.130	630.0
210	2.33	1.161	638.5	2.19	1.153	637.7	2.07	1.146	636.9	1.96	1.139	636.0
220	2.37	1.169	644.3	2.23	1.162	643.6	2.11	1.155	642.9	1.99	1.148	642.1
230	2.41	1.177	650.0	2.27	1.170	649.3	2.14	1.163	648.6	2.02	1.156	647.9
240	2.45	1.186	655.7	2.31	1.178	655.0	2.18	1.171	654.3	2.06	1.165	653.6
250	2.50	1.194	661.3	2.35	1.186	660.6	2.22	1.179	659.9	2.10	1.173	659.3
260	2.54	1.202	667.0	2.39	1.194	666.3	2.25	1.187	665.7	2.13	1.181	665.1
280	2.61	1.217	678.2	2.46	1.210	677.6	2.32	1.203	677.0	2.20	1.197	676.4
300	2.69	1.232	689.3	2.54	1.225	688.8	2.40	1.218	688.2	2.27	1.212	687.7
320	2.77	1.246	700.3	2.61	1.239	699.8	2.47	1.232	699.3	2.33	1.226	698.8
340	2.85	1.260	711.4	2.69	1.253	710.9	2.54	1.246	710.4	2.40	1.240	709.9
360	2.92	1.274	722.4	2.76	1.267	721.9	2.61	1.260	721.5	2.47	1.254	721.0
380	2.99	1.287	733.4	2.83	1.280	732.9	2.68	1.273	732.5	2.54	1.267	732.1

	210 [98.9]			220 [IDI.8]		230 [104.7]				240 [107.4]		
Sat.	1.43	1.010	560.5	1.37	1.007	561.0	1.31	1.003	561.5	1.26	1.000	562.0
110	1.48	1.025	569.0	1.40	1.018	567.3	1.33	1.010	565.7	1.27	1.003	564.0
120	1.52	1.038	576.5	1.44	1.031	574.9	1.37	1.024	573.4	1.31	1.017	571.8
130	1.56	1.050	583.6	1.48	1.043	582.1	1.41	1.036	580.7	1.34	1.030	579.3
140	1.60	1.062	590.4	1.52	1.055	589.1	1.45	1.048	587.8	1.38	1.042	586.5
150	1.64	1.073	597.2	1.55	1.066	596.0	1.48	1.060	594.7	1.42	1.053	593.5
160	1.68	1.084	603.8	1.59	1.077	602.7	1.51	1.071	601.6	1.45	1.065	600.4
170	1.72	1.094	610.3	1.63	1.088	609.2	1.55	1.081	608.2	1.48	1.075	607.1
180	1.76	1.104	616.7	1.66	1.098	615.7	1.58	1.092	614.7	1.51	1.086	613.7
190	1.79	1.114	623.0	1.69	1.108	622.0	1.61	1.102	621.0	1.54	1.096	620.1
200	1.82	1.123	629.1	1.72	1.117	628.2	1.64	1.111	627.3	1.57	1.105	626.4
210	1.86	1.133	635.2	1.76	1.126	634.4	1.68	1.120	633.5	1.61	1.115	632.7
220	1.89	1.142	641.3	1.79	1.135	640.5	1.71	1.129	639.6	1.64	1.124	638.8
230	1.92	1.150	647.2	1.82	1.144	646.4	1.74	1.138	645.6	1.67	1.132	644.8
240	1.96	1.159	652.9	1.86	1.152	652.2	1.78	1.146	651.5	1.70	1.141	650.7
250	1.99	1.167	658.6	1.89	1.161	658.0	1.81	1.155	657.3	1.73	1.149	656.6
260	2.02	1.175	664.4	1.92	1.169	663.8	1.84	1.163	663.2	1.76	1.158	662.5
270	2.05	1.183	670.2	1.95	1.177	669.6	1.87	1.171	669.0	1.79	1.166	668.3
280	2.09	1.191	675.8	1.99	1.185	675.2	1.90	1.179	674.6	1.82	1.174	674.0
300	2.15	1.206	687.2	2.05	1.200	686.7	1.96	1.194	686.2	1.87	1.189	685.6
320	2.21	1.220	698.4	2.11	1.214	697.9	2.02	1.209	697.4	1.93	1.203	696.9
340	2.27	1.234	709.5	2.17	1.228	709.1	2.08	1.223	708.6	1.98	1.218	708.1
360	2.34	1.248	720.6	2.23	1.242	720.2	2.14	1.237	719.7	2.04	1.232	719.3
380	2.41	1.261	731.7	2.29	1.256	731.3	2.19	1.250	730.9	2.09	1.245	730.5
400	2.47	1.274	742.8	2.35	1.269	742.4	2.25	1.263	742.0	2.15	1.258	741.7

TABLE 10. THERMAL PROPERTIES OF LIQUID AMMONIA

Temp., °F.	Saturation pressure, lb. per sq. in.	Volume of 1 lb., cu. ft.	Weight of I cu. ft., Ib.	144 Apv'	Temp., °F.	Saturation pressure, lb. per sq. in.	Volume of 1 lb., cu. ft.	Weight of I cu. ft., lb.	144 Apv'
-110	0.758	0.02202	45.42	0.003	90	` 181.8	0.02714	36.84	0.92
-105	0.947	.02211	45.23	.004	95	197.3	.02734	36.58	1.00
- 100	1.176	0.02220	45.04	0.005	100	213.8	0.02754	36.32	1.09
- 95	1.450	.02229	44.85	.006	105	231.2	.02774	36.06	1.19
- 90	1.778	.02239	44.66	.007	110	249.6	.02795	35.79	1.29
- 85	2.167	.02248	44.47	.009	115	269.2	.02816	35.51	1.40
- 80	2.626	.02258	44.28	.011	120	289.9	.02839	35.23	1.52
- 75	3.164	0.02268	44.09	0.013	125	311.6	0.02862	34.95	1.65
- 70	3.791	.02278	43.89	.016	130	334.6	.02886	34.66	1.79
- 65	4.518	.02288	43.70	.019	135	358.8	.02910	34.36	1.93
- 60	5.358	.02299	43.51	.023	140	3 ⁸ 4.4	.02936	34.06	2.09
- 55	6.324	.02309	43.31	.027	145	411.3	.02963	33.76	2.26
- 50	7.43	0.02320	43.11	0.032	150	439.5	0.0299	33.45	2.43
- 45	8.69	.02331	42.91	.038	155	469.1	.0302	33.13	2.62
- 40	10.12	.02342	42.71	.044	160	500.1	.0305	32.80	2.82
- 35	11.74	.02353	42.50	.051	165	532.6	.0308	32.47	3.04
- 30	13.56	.02364	42.30	.059	170	566.6	.0312	32.13	3.27
- 25	15.61	0.02376	42.09	0.069	175	602.2	0.0315	31.8	3.51
- 20	17.91	.02388	41.88	.079	180	639.5	.0318	31.5	3.77
- 15	20.46	.02400	41.67	.091	185	678.4	.0322	31.1	4.05
- 10	23.30	.02412	41.46	.104	190	719.0	.0326	30.7	4.34
- 5	26.46	.02424	41.25	.119	195	761.4	.0330	30.3	4.65
0	29.95	0.02437	41.04	0.135	200	805.6	0.0335	29.9	4.99
5	33.79	.02450	40.83	.153	205	851.7	.0340	29.4	5.36
10	38.02	.02463	40.61	.173	210	899.7	.0345	29.0	5.75
15	42.67	.02476	40.39	.196	215	949.6	.0350	28.6	6.16
20	47.75	.02490	40.17	.220	220	1001.4	.0355	28.2	6.59
25	53.30	0.02504	39.95	0.247	225	1055.3	0.0361	27.7	7.I
30	59.35	.02518	39.72	.277	230	- 1111.3	.0368	27.2	7.6
35	65.91	.02532	39.50	.309	235	1169.5	.0376	26.6	8.I
40	73.03	.02547	39.27	.344	240	1229.9	.0384	26.0	8.7
45	80.75	.02562	39.04	.383	245	1292.5	.0393	25.4	9.4
50	89.1	0.02577	38.81	0.425	250	1357.4	0.0404	24.8	10.2
55	98.0	.02593	38.57	.471	255	1424.7	.0417	24.0	11.0
60	107.7	.02609	38.33	.520	260	1494.4	.0435	23.0	12.0
65	118.1	.02626	38.09	.574	265	1566.6	.0457	21.8	13.3
70	129.2	.02643	37.85	.632	270	1641.3	.0500	20.0	15.2
75 80 85	141.1 153.9 167.4	0.02660 .02678 .02696	37.60 37.35 37.10	0.70 .76 .84	273.2	1690.0 	0.0678 	14.75	21.2

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LOGARITHMS

	0	1	2	3	4	5	6	7	8	9
100	0000	0004	0009	0013	0017	0022	0026	0030	0035	0039
101	0043	0048	0052	0056	0060	0065	0069	0073	0077	0082
102	0086 0128	0090	0095	0099	0103	0107	OIII	0116	0120 0162	0124 0166
103 104	0128	0133 0175	0137 0179	0141 0183	0145 0187	0149 0191	0154 0195	0158 0199	0204	0208
104	01/0	01/5	01/9	0103	0107	0191	0195	0199	0204	0200
105	0212	0216	0220	0224	0228	0233	0237	0241	0245	0249
106	0253	0257	0261	0265	0269	0273	0278	0282	0286	0290
107 108	0294	0298	0302	0306	0310	0314	0318	0322	0326	0330
100	0334 0374	0338 0378	0342 0382	0346 0386	0350	0354 0394	0358 0398	0362 0402	0366 0406	0370 0410
	-374	•370	0,02	0,000	-350	-354	-350	-4	-4	
110	0414	0418	0422	0426	0430	0434	0438	0441	0445	0449
II	0414	0453	0492	0531	0569	0607	0645	0682	0719	0755
12 13	0792	0828	0864 1206	0899	0934	0969	1004	1038	1072	1106
14	1139 1461	1173 1492	1523	1239 1553	1271 1584	1303 1614	1335 1644	1367 1673	1399 1703	1430 1732
		1492	-3-3	*333	1 304	1014	1044	1073	-103	-15-
15	1761	1790	1818	1847	1875	1903	1931	1959	1987	2014
16	2041	2068	2095	2122	2148	2175	2201	. 2227	2253	2279
17 18	2304	2330	2355	2380	2405	2430	2455	2480	2504	2529
19	2553 2788	2577 2810	2601 2833	2625 2856	2648 2878	2672 2900	2695	2718 2945	2742 2967	2989
-9	2700	2010	2033	2030	2070	2900	2923	*945	2907	2909
20	3010	3032	3054	3075	3096	3118	3139	3160	3181	3201
21	3222	3243	3263	3284	3304	3324	3345	3365	3385	3404
22	3424	3444	3464	3483	3502	3522	3541	3560	3579 3766	3598
23 24	3617 3802	3636 3820	3655 3838	3674 3856	3692 3874	3711 3892	3729 3909	3747 3927	3945	3784 3962
-4	3002	3020	3030	3030	30/4	3092	3303	55-1	3943	3902
25	3979	3997	4014	4031	4048	4065	4082	4099	4116	4133
26	4150	4166	4183	4200	4216	4232	4249	4265	4281	4298
27 28	4314	4330 4487	4346	4362 4518	4378	4393 4548	4409 4564	4425	4440 4594	4456
29	4472 4624	4639	4502	4569	4533 4683	4540	4504	4579 4728	4594 4742	4757
-										
30	4771	4786	4800	4814	4829	4843	4857	4871	4886	4900
31	4914	4928	4942	4955	4969	4983	4997	5011	5024	5038
32 33	5051 5185	5065 5198	5079 5211	5092 5224	5105 5237	5119 5250	5132 5263	5145 5276	5159 5289	5172 5302
33 34	5315	5328	5340	5353	5366	5378	5391	5403	5416	5428
	00 0	00		T T T	00					
35	5441	5453	5465	5478	5490	5502	5514	5527	5539	5551
36	5563	5575	5587	5599	5611	5623	5635	5647	5658	5670
37 38	5682 5798	5694 5809	5705 5821	5717 5832	5729 5843	5740 5855	5752 5866	5763 5877	5775 5888	5786 5899
39	5911	5922	5933	5944	5955	5966	5977	5988	5999	6010
										- 235
40	6021	6031	6042	6053	6064	6075	6085	6096	6107	6117
4 1 42	6128 6232	6138 6243	6149	6160 6263	6170 6274	6180 6284	6191 6294	6201 6304	6212 6314	6222 6325
42	6335	6345	6253 6355	6365	6375	6385	6395	6405	6415	6425
43	6435	6444	6454	6464	6474	6484	6493	6503	6513	6522
				6.6		6.0		1.101		66-0
45 46	6532 6628	6542	6551	6561	6571 6665	6580	6590 6684	6599	6609 6702	6618 6712
40	6721	6637 6730	6646 6739	6656 6749	6758	6675 6767	6776	6693 6785	6794	6803
47	6812	6821	6830	6839	6848	6857	6866	6875	6884	6893
49	6902	6911	6920	6928	6937	6946	6955	6964	6972	6981

LOGARITHMS

	0	1	2	3	4	5	6	7	8	9
50	6990	6998	7007	7016	7024	7033	7042	7050	7059	7067
51	7076	7084	7093	7101	7110	7118 .	7126	7135	7143	7152
52	7160	7168	7177	7185	7193	7202	7210	7218	7226	7235
53	7243	7251	7259	7267	7275	7284	7292	7300	7308	7316
54	7324	7332	7340	7348	7356	7364	7372	7380	7388	7396
55	7404	7412	7419	7427	7435	7443	7451	7459	7466	7474
56	7482	7490	7497	7505	7513	7520	7528	7536	7543	7551
57	7559	7566	7574	7582	7589	7597	7604	7612	7619	7627
58	7634	7642	7649	7657	7664	7672	7679	7686	7694	7701
59	7709	7716	7723	7731	7738	7745	7752	7760	7767	7774
60	7782	7789	7796	7803	7810	7818	7825	7832	7839	7846
61 J	7853	7860	7868	7875	7882	7889	7896	7903	7910	7917
62	7924	7931	7938	7945	7952	7959	7966	7973	7980	7987
63	7993	8000	8007	8014	8021	8028	8035	8041	8048	8055
64	8062	8069	8075	8082	8089	8096	8102	8109	8116	8122
65	8129	8136	8142	8149	8156	8162	8169	8176	8182	8189
66	8195	8202	8209	8215	8222	8228	8235	8241	8248	8254
67	8261	8267	8274	8280	8287	8293	8299	8306	8312	8319
68	8325	8331	8338	8344	8351	8357	8363	8370	8376	8382
69	8388	8395	8401	8407	8414	8420	8426	8432	8439	8445
70	8451	8457	8463	8470	8476	8482	8488	8494	8500	8506
71	8513	8519	8525	8531	8537	8543	8549	8555	8561	8567
72	8573	8579	8585	8591	8597	8603	8609	8615	8621	8627
73	8633	8639	8645	8651	8657	8663	8669	8675	8681	8686
74	8692	8698	8704	8710	8716	8722	8727	8733	8739	8745
75	8751	8756	8762	8768	8774	8779	8785	8791	8797	8802
76	8808	8814	8820	8825	8831	8837	8842	8848	8854	8859
77	8865	8871	8876	8882	8887	8893	8899	8904	8910	8915
78	8921	8927	8932	8938	8943	8949	8954	8960	8965	8971
79	8976	8982	8987	8993	8998	9004	9009	9015	9020	9025
80	9031	9036	9042	9047	9053	9058	9063	9069	9074	9079
81	9085	9090	9096	9101	9106	9112	9117	9122	9128	9133
82	9138	9143	9149	9154	9159	9165	9170	9175	9180	9186
83	9191	9196	9201	9206	9212	9217	9222	9227	9232	9238
84	9243	9248	9253	9258	9263	9269	9274	9279	9284	9289
85	9294	9299	9304	9309	9315	9320	9325	9330	9335	9340
86	9345	9350	9355	9360	9365	9370	9375	9380	9385	9390
87	9395	9400	9405	9410	9415	9420	9425	9430	9435	9440
88	9445	9450	9455	9460	9465	9469	9474	9479	9484	9489
89	9494	9499	9504	9509	9513	9518	9523	9528	9533	9538
90	9542	9547	9552	9557	9562	9566	9571	9576	9581	9586
91	9590	9595	9600	9605	9609	9614	9619	9624	9628	9633
92	9638	9643	9647	9652	9657	9661	9666	9671	9675	9680
93	9685	9689	9694	9699	9703	9708	9713	9717	9722	9727
94	9731	9736	9741	9745	9750	9754	9759	9763	9768	9773
95	9777	9782	9786	9791	9795	9800	9805	9809	9814	9818
96	9823	9827	9832	9836	9841	9845	9850	9854	9859	9863
97	9868	9872	9877	9881	9886	9890	9894	9899	9903	9908
98	9912	9917	9921	9926	9930	9934	9939	9943	9948	9952
99	9956	9961	9965	9969	9930	9978	9983	9987	9991	9996
55	5550	550-	5505	5505	5514	5510	5505	5501	5552	555-

NAPIERIAN LOGARITHMS

Base $\epsilon = 2.71828 +$

1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8	0.0000 .0953 .1823 .2624 .3365 0.4055 .4700 .5306 .5878	0.0100 .1044 .1906 .2700 .3436 0.4121 .4762	0.0198 .1133 .1988 .2776 .3507	0.0296 .1222 .2070 .2852 .3577	0.0392 .1310 .2151 .2927 .3646	0.0488 .1398 .2231	0.0583 .1484 .2311	0.0677	0.0770	0.0862
1.2 1.3 1.4 1.5 1.6 1.7 1.8	.1823 .2624 .3365 0.4055 .4700 .5306	.1906 .2700 .3436 0.4121	.1988 .2776 .3507	.2070 .2852	.2151 .2927	.2231	.1484	.1570		
1.3 1.4 1.5 1.6 1.7 1.8	.2624 .3365 0.4055 .4700 .5306	.2700 .3436 0.4121	.2776 .3507	.2852	.2927		2277			.1739
1.4 1.5 1.6 1.7 1.8	.3365 0.4055 .4700 .5306	.3436 0.4121	.3507				.2311	.2390	.2469	.2546
1.5 1.6 1.7 1.8	0.4055 .4700 .5306	0.4121		•3577	2616	.3001	.3075	.3148	.3221	.3293
1.6 1.7 1.8	.4700 .5306		0.4787		.3040	.3716	.3784	.3853	.3920	.3988
1.7 1.8	.5306	1762	0.4187	0.4253	0.4318	0.4383	0.4447	0.4511	0.4574	0.4637
1.8			.4824	.4886	•4947	.5008	.5068	.5128	.5188	.5247
	CX7X 1	.5365	.5423	.5481	·5539	.5596	.5653	.5710	.5766	.5822
		.5933	.5988	.6043	.6098	.6152	.6206	.6259	.6313	.6366
1.9	.6419	.6471	.6523	.6575	.6627	.6678	.6729	.6780	.6831	.6881
2.0	0.6931	0.6981	0.7031	0.7080	0.7129	0.7178	0.7227	0.7275	0.7324	0.7372
2.1	.7419	.7467	.7514	.7561	.7608	.7655	.7701	·7747	·7793	.7839
2.2	.7885	.7930	.7975	.8020	.8065	.8109	.8154	.8198	.8242	.8286
2.3	.8329	.8372	.8416	.8459	.8502	.8544	.8587	.8629	.8671	.8713
2.4	.8755	.8796	.8838	.8879	.8920	.8961	.9002	.9042	.9083	.9123
2.5	0.9163	0.9203	0.9243	0.9282	0.9322	0.9361	0.9400	0.9439	0.9478	0.9517
2.6	.9555	.9594	0.9632	0.9670	0.9708	0.9746	0.9783	0.9821	0.9858	0.9895
2.7	.9933	.9969	1.0006	1.0043	1.0080	1.0116	1.0152	1.0188	1.0225	1.0260
2.8	1.0296	1.0332	1.0367	1.0403	1.04.38	1.0473	1.0508	1.0543	1.0578	1.0613
2.9	1.0647	1.0682	1.0716	1.0750	1.0784	1.0818	1.0852	1.0886	1.0919	1.0953
3.0	1.0986	1.1019	1.1053	1.1086	1.1119	1.1151	1.1184	1.1217	1.1249	1.1282
3.1	1.1314	1.1346	1.1378	1.1410	1.1442	1.1474	1.1506	1.1537	1.1569	1.1600
3.2	1.1632	1.1663	1.1694	1.1725	1.1756	1.1787	1.1817	1.1848	1.1878	1.1909
3.3	1.1939	1.1969	1.2000	1.2030	1.2060	1.2090	1.2119	1.2149	1.2179	1.2208
3.4	1.2238	1.2267	1.2296	1.2326	1.2355	1.2384	1.2413	1.2442	1.2470	1.2499
3.5	1.2528	1.2556	1.2585	1.2613	1.2641	1.2669	1.2698	1.2726	1.2754	1.2782
3.6	1.2809	1.2837	1.2865	1.2892	1.2920	1.2947	1.2975	1.3002	1.3029	1.3056
3.7	1.3083	1.3110	1.3137	1.3164	1.3191	1.3218	1.3244	1.3271	1.3297	1.3324
3.8	1.3350	1.3376	1.3403	1.3429	1.3455	1.3481	1.3507	1.3533	1.3558	1.3584
3.9	1.3610	1.3635	1.3661	1.3686	1.3712	1.3737	1.3762	1.3788	1.3813	1.3838
4.0	1.3863	1.3888	1.3913	1.3938	1.3962	1.3987	1.4012	1.4036	1.4061	1.4085
4.1	1.4110	1.4134	1.4159	1.4183	1.4207	1.4231	1.4255	1.4279	1.4303	1.4327
4.2	1.4351	1.4375	1.4398	1.4422	1.4446	1.4469	1.4493	1.4516	1.4540	1.4563
4.3	1.4586	1.4609	1.4633	1.4656	1.4679	1.4702	1.4725	1.4748	1.4770	1.4793
4.4	1.4816	1.4839	1.4861	1.4884	1.4907	1.4929	1.4951	1.4974	1.4996	1.5019
4.5	1.5041	1.5063	1.5085	1.5107	1.5129	1.5151	1.5173	1.5195	1.5217	1.5239
4.6	1.5261	1.5282	1.5304	1.5326	1.5347	1.5369	1.5390	1.5412	1.5433	1.5454
4.7	1.5476	1.5497	1.5518	1.5539	1.5560	1.5581	1.5602	1.5623	1.5644	1.5665
4.8	1.5686	1.5707	1.5728	1.5748	1.5769	1.5790	1.5810	1.5831	1.5851	1.5872
4.9	1.5892	1.5913	1.5933	1.5953	1.5974	1.5994	1.6014	1.6034	1.6054	1.6074

To move decimal point n places to right (or left) add12.3026613.8155(or subtract) n times 2.3026. Thus24.6052716.1181 $log_e 425$ =1.4469 + 4.6052 = 6.052136.9078818.4207

 $\log_e 0.00425 = 1.4469 - 6.9078 = \overline{6}.5391$

4 9.2103 9 20.7233 5 11.5129

.

NAPIERIAN LOGARITHMS

	0	1	2	3	4	5	6	7	8	9
5.0	1.6094	1.6114	1.6134	1.6154	1.6174	1.6194 °	1.6214	1.6233	1.6253	1.6273
5.1	1.6292	1.6312	1.6332	1.6351	1.6371	1.6390	1.6409	1.6429	1.6448	1.6467
5.2	1.6487	1.6506	1.6525	1.6544	1.6563	1.6582	1.6601	1.6620	1.6639	1.6658
5.3	1.6677	1.6696	1.6715	1.6734	1.6752	1.6771	1.6790	1.6808	1.6827	1.6845
5.4	1.6864	1.6882	1.6901	1.6919	1.6938	1.6956	1.6974	1.6993	1.7011	1.7029
					1.0950	1.0930		10993		11/029
5.5	1.7047	1.7066	1.7084	1.7102	1.7120	1.7138	1.7156	1.7174	1.7192	1.7210
5.6	1.7228	1.7246	1.7263	1.7281	1.7299	1.7317	1.7334	1.7352	1.7370	1.7387
5.7	1.7405	1.7422	1.7440	1.7457	1.7475	1.7492	1.7509	1.7527	1.7544	1.7561
5.8	1.7579	1.7596	1.7613	1.7630	1.7647	1.7664	1.7681	1.7699	1.7716	1.7733
5.9	1.7750	1.7766	1.7783	1.7800	1.7817	1.7834	1.7851	1.7867	1.7884	1.7901
6.0	1.7918	I.7934	1.7951	1.7967	1.7984	1.8001	1.8017	1.8034	1.8050	1.8066
6.1	1.8083	1.8099	1.8116	1.8132.	1.8148	1.8165	1.8181	1.8197	1.8213	1.8229
6.2	1.8245	1.8262	1.8278	1.8294	1.8310	1.8326	1.8342	1.8358	1.8374	1.8390
6.3	1.8405	1.8421	I.8437	1.8453	1.8469	1.8485	1.8500	1.8516	1.8532	1.8547
6.4	1.8563	1.8579	1.8594	1.8610	1.8625	1.8641	1.8656	1.8672	1.8687	1.8703
6.5	1.8718	1.8733	1.8749	1.8764	1.8779	1.8795	1.8810	1.8825	1.8840	1.8856
6.6	1.8871	I.8886	1.8901	1.8916	1.8931	1.8946	1.8961	1.8976	1.8991	1.9006
6.7	1.9021	1.9036	1.9051	1.9066	1.9081	1.9095	1.9110	1.9125	1.9140	1.9155
6.8	1.9169	1.9184	1.9199	1.9213	1.9228	1.9242	1.9257	1.9272	1.9286	1.9301
6.9	1.9315	1.9330	1.9344	1.9359	1.9373	1.9387	1.9402	1.9416	1.9430	1.9445
7.0	1.9459	1.9473	1.9488	1.9502	1.9516	1.9530	TOFAL	1.9559	1.9573	1.9587
7.1	1.9601	1.9615	1.9400	1.9643	1.9657	1.9530	1.9544 1.9685	1.9559	1.9573	1.9507 1.9727
7.2	1.9741	1.9755	1.9769	1.9782	1.9796	1.9810	1.9824	1.9838	1.9851	1.9865
	1.9879	1.9892	1.9906	1.9920	1.9933	1.9947	1.9024	1.9930	1.9988	2.0001
7.3 7.4	2.0015	2.0028	2.0042	2.0055	2.0069	2.0082	2.0096	2.0109	2.0122	2.0136
	2.0015	2.0020	2.0042	2.0055	2.0009	2.0002	2.0090	2.0109	2.0122	2.0130
7.5	2.0149	2.0162	2.0176	2.0189	2.0202	2.0215	2.0229	2.0242	2.0255	2.0268
7.6	2.0281	2.0295	2.0308	2.0321	2.0334	2.0347	2.0360	2.0373	2.0386	2.0399
7.7	2.0412	2.0425	2.0438	2.0451	2.0464	2.0477	2.0490	2.0503	2.0516	2.0528
7.8	2.0541	2.0554	2.0567	2.0580	2.0592	2.0605	2.0618	2.0631	2.0643	2.0656
7.9	2.0669	2.0681	2.0694	2.0707	2.0719	2.0732	2.0744	2.0757	2.0769	2.0782
8.0	2.0794	2.0807	2.0819	2.0832	2.0844	2.0857	2.0869	2.0882	2.0894	2.0906
8.1	2.0919	2.0931	2.0943	2.0956	2.0968	2.0980	2.0992	2.1005	2.1017	2.1029
8.2	2.1041	2.1054	2.1066	2.1078	2.1090	2.1102	2.1114	2.1126	2.1138	2.1150
8.3	2.1163	2.1175	2.1187	2.1199	2.1211	2.1223	2.1235	2.1247	2.1258	2.1270
8.4	2.1282	2.1294	2.1306	2.1318	2.1330	2.1342	2.1353	2.1365	2.1377	2.1389
8.5	2.1401	2.1412	2.1424	2.1436	2.1448	2.1459	2.1471	2.1483	2.1494	2.1506
8.6	2.1518	2.1529	2.1541	2.1552	2.1564	2.1576	2.1587	2.1599	2.1610	2.1622
8.7	2.1633	2.1645	2.1656	2.1668	2.1679	2.1691	2.1702	2.1713	2.1725	2.1736
8.8	2.1748	2.1759	2.1770	2.1782	2.1793	2.1804	2.1815	2.1827	2.1838	2.1849
8.9	2.1861	2.1872	2.1883	2.1894	2.1905	2.1917	2.1928	2.1939	2.1950	2.1961
9.0	0.1050	2.1983	0.1007	2 2006	0.0075	2.2028	0.0000	0.0070	2.2061	0.0050
	2.1972		2.1994	2.2006	2.2017		2.2039	2.2050		2.2072 2.2181
9.1	2.2083	2.2094	2.2105	2.2116	2.2127	2.2138	2.2148	2.2159	2.2170	
9.2	2.2192	2.2203 2.2311	2.2214		2.2235	2.2246	2.2257		2.2279	2.2289
9.3			-	2.2332	2.2343	2.2354	2.2364	2.2375	2.2386	1
9.4	2.2407	2.2418	2.2428	2.2439	2.2450	2.2460	2.2471	2.2481	2.2492	2.2502
9.5	2.2513	2.2523	2.2534	2.2544	2.2555	2.2565	2.2576	2.2586	2.2597	2.2607
9.6	2.2618	2.2628	2.2638	2.2649	2.2659	2.2670	2.2680	2.2690	2.2701	2.2711
9.7	2.2721	2.2732	2.2742	2.2752	2.2762	2.2773	2.2783	2.2793	2.2803	2.2814
9.8	2.2824	2.2834	2.2844	2.2854	2.2865	2.2875	2.2885	2.2895	2.2905	2.2915
9.9	2.2925	2.2935	2.2946	2.2956	2.2966	2.2976	2.2986	2.2996	2.3006	2.3016
10.0	2.3026									
		1	1	1		1	1	1		

CONVERSION TABLES

The following tables give the numerical relations between the various units of pressure, energy, and power. For the calculation of the equivalents the following data are required. 100

	log			log
$i \text{ meter} = \begin{cases} 39. \\ 2 \\ 3 \end{cases}$.37 * in. 1.59517 8083 ft. 0.51598	<pre>i horsepower = i cheval-vapeur =</pre>	550 ft. lb./sec. 75 kg. m./sec.	2.74036
1 kilogram = 2.2	0462 lb. 0.34333	I poncelet =	100 kg. m./sec.	2.00000
	84 joules 0.62159 0 mm. of Hg. 2.88081	g (standard) =	32.174 ft./sec. ² 980.665 cm./sec. ³	1.50750

Kilograms per	Pounds Pounds		Atmospheres Meters of mercury		Inches of	Feet of water
sq. cm.	per sq. in. per sq. ft.				mercury	(at 60° F.)
1	I4.223	2048.2	0.96781	0.73553	28.958	32.837
	I.55300†	3.31137	Ī.98579	ī.86660	1.46177	1.51636
0.070307	1	144*	0.068044	0.051713	2.0360	2.3087
2.84700		2.15836	2.83279	2.71360	0.30877	0.36336
4.882×10^{-4}	6.944 × 10 ⁻³	1	4.7253×10^{-4}	3.591×10^{-4}	0.014139	0.016032
$\bar{4.68863}$	3.84164		$\bar{4}.67442$	$\overline{4}.55524$	2.15041	2.20500
1.0333	14.696	2116.3	1	0.760	29.921	3.3.929
0.01421	1.16721	3.32557		ī.88081	1.47598	1.53058
1.3596	19.338	2784.6	1.3158	1	39.37	44.644
0.13340	1.28640	3.44476	0.11919		1.59517	1.64976
0.034532	0.49117	70.728	0.035364	0.0254	1	I.I340
2.53822	ī.69123	1.84959	2.54856	2.40484		0.05460
0.030453	0.43315	62.374	0.029473	0.07349	0.88187	1
2.48364	1.63364	1.79500	2.46942	2.86623	1.94540	

N

PRESSURE

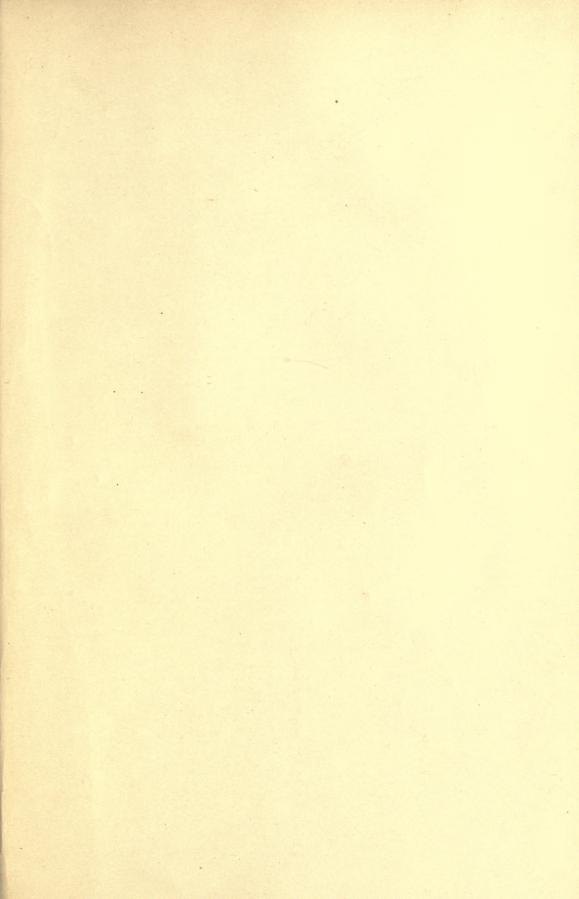
Foot-pounds	Meter-kilograms	Mean British thermal units	Gram-calories	Joules	Horsepower- hours	Kilowatt-hours
1	0.13826	0 0012860	0.32405	I.3558	5.0505 × 10 ⁻⁷	3.7662×10-7
	ī.14068	3.10922	Ī.51062	0.13220	7.70333	7.57590
7.2330		9.302 × 10-3	2.3440	9.80665	3.6530×10-6	2.7241 × 10-6
0.85932	1	3.96854	0.36994	0.99152	6.56265	6.43522
777.64	107.51	1	252.00	1054.3	3.9275×10 ⁻⁴	2.9288×10 ⁻⁴
2.89078	2.03146		2.40139	3.02298	4.59412	4.46668
3.0859	0.42664	0.0039683	1	4.184	1.5585×10 ⁻⁶	1.1621×10-6
0.48938	ī.63006	3.59861		0.62159	6.19271	6.06528
0.73756	0.10197	9.485×10 ⁻⁴	0.2390	1	3.7251×10 ⁻⁷	2.7778×10-7
ī.86780	ī.00848	4.97702	ī.37841		7.57113	7.44370
$1.98 imes 10^6$	2.7375×10 ⁵	2546.2	6.4164×10 ⁵	2.6845×10 ⁶	1	0.74571
6.29667	5.43735	3.40588	5.80729	6.42887		Ī·87257
2.6552×10 ⁶	3.6710×10 ⁵	3414.5	8.6044×10 ⁵	3.6×10 ⁶	1.3410	1
6.42410	5.56478	3.53332	5.93472	6.55630	0.12743	

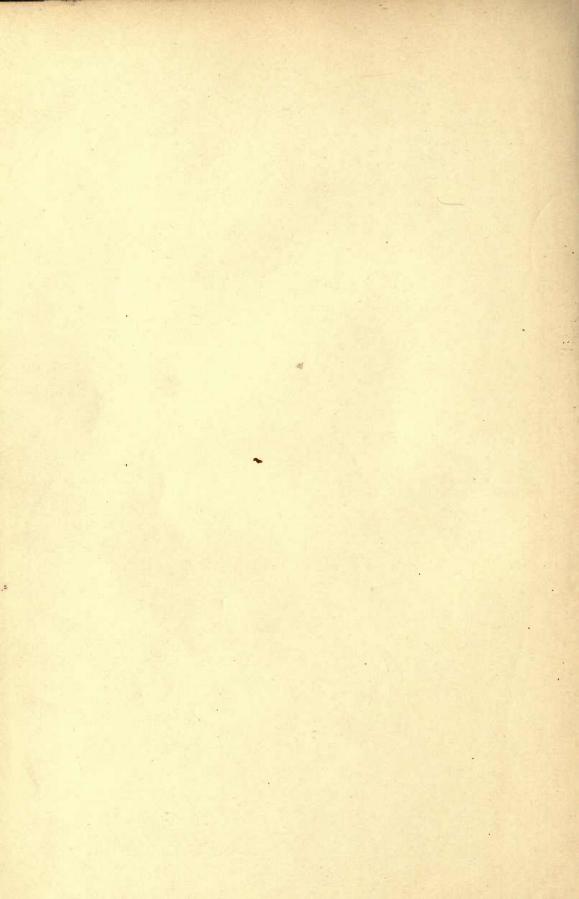
ENERGY

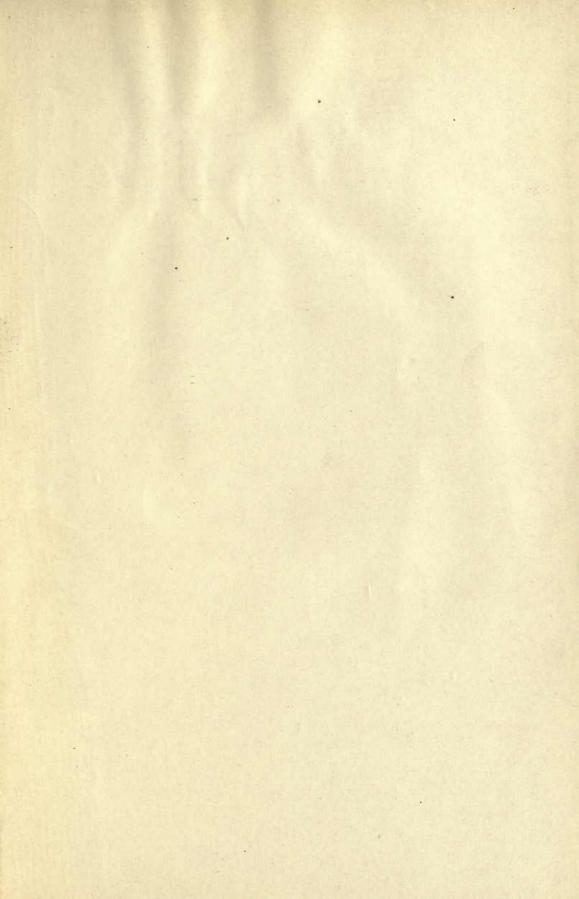
Power

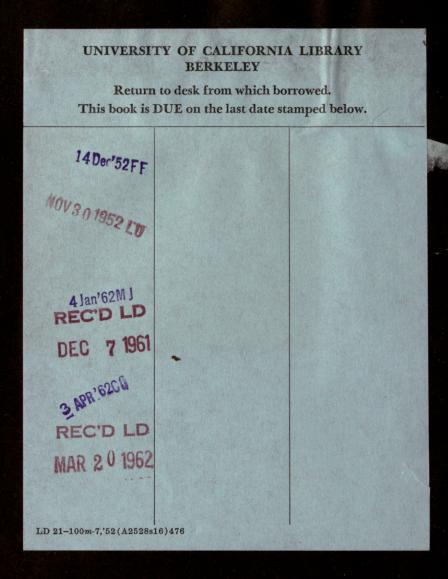
Kilowatts	Horsepower	Cheval-vapeur	Poncelet	Met. kg. per sec.	Ft. lb. per sec.	Gr. cal. per sec.	B.t.u. per sec.
1	I.34I	I.3600	1.0197	101.97	737.56	239.01	0.9485
	0.12743	0.13341	0.00848	2.00848	2.86780	2.37842	1.97702
0.7457	1	1.0139	0.7604	76.04	550	178.23	0.7073
ī.87257		0.00598	ī.88104	1.88104	2.74036	2.25098	ī.84958
0.7355	0.9863	1	0.75	75	542.5	175.79	0.6976
1.86659	1.99402		1.87506	1.87506	2.73438	2.24500	1.84360
0.980665	1.3151	1.333	1	100	723.3	234.39	0.9301
1.99152	0.11896	0.12493		2.00000	2.85932	2.36994	ī.96854
9.807×10 ^{−3}	0.01315	0.01333	0.01	1	7.233	2.344	9.301 × 10 ⁻³
3.99152	2.11896	2.12493	2.00000		0.85932	0.36994	3.96854
1.356×10 ⁻³ 3.13220	1.818×10 ⁻³ 3.25964	1.843×10 ⁻³ 3.26562	1.3825×10 ⁻³ 3.14068	Ī.14068	1	0.32405 ī.51062	1.286×10 ⁻³ 3.10922
4.184×10 ⁻³	5.610×10 ⁻³	5.695×10 ⁻³	4.2664×10 ⁻³	0.42664	3.0859	1	3.9683×10 ⁻³
3.62158	3.74902	3.75500	3.63006	ī.63006	0.48938		3.59861
1.0543	1.4139	1.4325	I.075I	107.51	777.64	252.00	1
0.02298	0.15042	0.15640	0.03146	2.03146	2.89c78	2.40139	

* Numbers in black face type indicate exact values by definition. † The numbers in smaller type are the logarithms of the numbers immediately above them.









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