

325

MASTER

AEC RESEARCH AND DEVELOPMENT REPORT

**THERMODYNAMIC PROPERTIES OF GASEOUS
URANIUM HEXAFLUORIDE**

AUTHORS

B. H. Parks

D. W. Burton

**UNION CARBIDE NUCLEAR COMPANY
DIVISION OF UNION CARBIDE CORPORATION**

Operating

- OAK RIDGE GASEOUS DIFFUSION PLANT • OAK RIDGE Y-12 PLANT
- OAK RIDGE NATIONAL LABORATORY • PADUCAH GASEOUS DIFFUSION PLANT

for the Atomic Energy Commission

Under U. S. Government Contract W7405 eng 26



DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency Thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

Date of Issue: September 30, 1960

Report Number: K-1458

Subject Category: TECHNOLOGY-
FEED MATERIALS
(TID-4500, 15th Ed.)

THERMODYNAMIC PROPERTIES OF GASEOUS
URANIUM HEXAFLUORIDE

B. H. Parks, D. W. Burton

Operations Analysis Division

G. A. Garrett, Superintendent

UNION CARBIDE NUCLEAR COMPANY
Division of Union Carbide Corporation
Oak Ridge Gaseous Diffusion Plant
Oak Ridge, Tennessee

Report Number: K-1458

Subject Category: TECHNOLOGY-
FEED MATERIALS

Title: THERMODYNAMIC PROPERTIES
OF GASEOUS URANIUM
HEXAFLUORIDE

Author: B. H. Parks, D. W. Burton

A B S T R A C T

This report contains tables listing temperature dependent coefficients for the computation of thermodynamic properties of gaseous uranium hexafluoride using equations which express the properties as expansions in powers of pressure. The various coefficients listed have been computed in one degree increments for a temperature range of 500°R to 999°R.

The computation of this set of tables was by use of a virial equation representation for the equation of state and deriving the thermodynamic properties from this representation.

THERMODYNAMIC PROPERTIES OF GASEOUS URANIUM HEXAFLUORIDE

Advances in the art of gaseous diffusion separation of uranium isotopes have resulted in a need for more accurate thermodynamic data. The following tables list as functions of temperature the most useful thermodynamic data for determining the behavior of the uranium hexafluoride gas in the plant and associated testing facilities.

The computation of this set of tables was by use of a virial equation representation for the equation of state and deriving the thermodynamic properties from this representation. The representation and correlation of data for the equation of state was made directly in terms of pressure since this representation is the most useful in applications to the process. For the range of pressure and temperature covered by experimental data the simple equation

$$(1) \quad Z(P,T) = \frac{MP}{\rho RT} = 1 + Z_1(T) P + Z_2(T) P^2$$

appeared to be adequate.

For the derived thermodynamic functions, an expansion in terms of pressure to the second power in P was used. Thus, as an example,

$$(2) \quad C_P = C_P^* + C_{P,1}(T) P + C_{P,2}(T) P^2$$

where C_P^* is the specific heat at constant pressure for very low pressures.

With this representation only the tabulation of the coefficients as functions of temperature need be made. This enables the user to compute a desired thermodynamic property at any particular temperature and pressure.

The ideal state variables (very low pressure) are denoted by an asterisk.

SYMBOLS

P	pressure, lbs./ft. ²
ρ	density, lbs./ft. ³
R	Universal gas constant = 1545, $\frac{\text{ft.-lbs}}{\text{lb.-mol } ^\circ\text{R}}$
M	molecular weight of UF ₆ = 352.07
T	absolute temperature, degrees Rankine
Z	compressibility function
C _P	specific heat at constant pressure, $\frac{\text{ft.-lbs}}{\text{lb } ^\circ\text{R}}$
B(T)	second virial coefficient in expansion of equation of state in powers of pressure, ft ³ /lb.
C(T)	third virial coefficient, ft ⁵ /lb ²
H(P,T)	enthalpy defined by equation (6), $\frac{\text{ft.-lbs}}{\text{lb}}$
S(P,T)	entropy defined by equation (11), $\frac{\text{ft.-lbs}}{\text{lb } ^\circ\text{R}}$
s(P,T)	$\frac{M S(P,T)}{R} + \ln P$
γ	ratio of specific heats
C _S	velocity of sound, ft./sec.

EQUATION OF STATE

The basic virial equation used to represent the equation of state is given as an expansion in terms of pressure P, as,

$$(3) \quad \frac{P}{\rho} = \frac{RT}{M} + B(T) P + C(T) P^2$$

Comparison with (1) shows that

$$(4) \quad \begin{aligned} Z_1(T) &= MB(T)/RT \\ Z_2(T) &= MC(T)/RT \end{aligned}$$

The forms chosen to represent the virial coefficients as functions of temperature are

$$(5) \quad \begin{aligned} B(T) &= B_1 + B_2 T^{-1} + B_3 T^{-3} \\ C(T) &= C_1 + C_2 T^{-1} + C_3 T^{-3} . \end{aligned}$$

The experimental data were taken from measurements of the molar polarization of the vapor, reported in [1]*. The original data were obtained and the form

$$(6) \quad P \frac{\epsilon + 2}{\epsilon - 1} = \frac{\frac{RT}{M} + B(T) P + C(T) P^2}{P_m}$$

was used to fit each constant temperature run. Figures 1 and 2 show the values of B and C versus temperature that were obtained. The curve through the data was an adjusted fit of the curve given in [2].

The solid curves are

$$(7) \quad \begin{aligned} B(T) &= - 3.485 \times 10^{-4} - 13.172 T^{-1} - 3.510 \times 10^6 T^{-3} \\ C(T) &= 3.899 \times 10^{-7}, \text{ constant} \end{aligned}$$

From relations (7) the values of $Z_1(T)$ and $Z_2(T)$ were computed. For a given pressure and temperature the actual density may be determined quite simply.

ENTHALPY AND SPECIFIC HEAT

From the relations developed in reference [3] for pure gases, the following expansions for enthalpy $H(P,T)$ and specific heat at constant pressure C_p can be derived.

$$(8) \quad H(P,T) = \int_P^T C_p^* d\theta + \left[B(T) - T \frac{dB}{dT} \right] P + \frac{1}{2} \left[C(T) - T \frac{dC}{dT} \right] P^2, \frac{\text{ft-lbs}}{\text{lb}}$$

$$(8a) \quad = H^* + H_1(T) P + H_2(T) P^2$$

* Numbers in square brackets refer to the bibliography.

$$(9) \quad C_P = C_P^* - T \frac{d^2 B}{dT^2} P - \frac{1}{2} T \frac{d^2 C}{dT^2} P^2, \frac{\text{ft-lbs}}{\text{lb} \cdot \text{R}}$$

$$(9a) \quad = C_P^* + C_{P,1} P + C_{P,2} P^2$$

Where C_P^* is the value of C_P at very low pressures. Experimental data from (4) were used to determine the coefficients in the equation

$$(10) \quad C_P^* = A_1 + A_2 T + A_3 T^{-2} = 73.522 + 0.007256T - 2.5578 \times 10^6 T^{-2}$$

Figure 3 is a plot of the data and the curve given by (10). The arbitrary starting point for $H(P,T)$ is zero. One is usually interested in computing differences in enthalpy, and the procedure for obtaining them is clear.

ENTROPY

An expansion in powers of pressure P of the expression for entropy is, to the second power

$$(11) \quad S(P,T) = \int_0^T C_P^* \frac{d\theta}{\theta} - \frac{R}{M} \ln P - \frac{dB}{dT} P - \frac{1}{2} \frac{dC}{dT} P^2$$

Letting $s(P,T) = \frac{M}{R} S(P,T) + \ln P$

$$(12) \quad s(P,T) = \frac{M}{R} \int_0^T C_P^* \frac{d\theta}{\theta} - \frac{M}{R} \frac{dB}{dT} P - \frac{M}{2R} \frac{dC}{dT} P^2 \\ = s^* + s_1(T) P + s_2(T) P^2$$

The computation of entropy differences is somewhat more difficult than for enthalpy, but is still straightforward.

Given an isentropic process, an iterative procedure must be used for the determination of the unknown quantities from the following result

$$(13) \quad \ln(P_2/P_1) = s(P_2, T_2) - s(P_1, T_1).$$

This iteration converges very rapidly given any three values of pressure and temperature.

RATIO OF SPECIFIC HEATS

The general relation for the ratio of specific heats γ , is

$$(14) \quad \gamma = \frac{C_P(P^2 \frac{\partial V}{\partial P})}{C_P(P^2 \frac{\partial V}{\partial P}) + T(P \frac{\partial V}{\partial T})^2}.$$

The expansion of γ in terms of pressure is represented by

$$(15) \quad \gamma = \gamma^* + \gamma_1 P + \gamma_2 P^2$$

$$\text{where } \gamma^* = \frac{C_P^*}{C_P^* - R/M}$$

$$\gamma_1(T) = \gamma^* \frac{\frac{RT}{M} \frac{d^2 B}{dT^2} + 2C_P^* \frac{dB}{dT}}{C_P^*(C_P^* - R/M)}$$

$$\gamma_2(T) = \frac{\gamma^*}{2} \left\{ \left(\frac{\gamma_1}{\gamma^*} \right)^2 - \frac{\frac{R}{M} T^2 \frac{d^2 C}{dT^2} + 2C_P^* C}{\frac{R}{M} T C_P^*} - \left(\frac{T}{C_P^*} \frac{d^2 B}{dT^2} \right)^2 + \left[\frac{T \frac{d^2 B}{dT^2} + 2 \frac{dB}{dT}}{C_P^* - R/M} \right]^2 + \frac{2T \left(\frac{dB}{dT} \right)^2 + \frac{R}{M} T^2 \frac{d^2 C}{dT^2} + 4 \frac{R}{M} T \frac{dC}{dT} + 2C_P^* C}{\frac{R}{M} T (C_P^* - R/M)} \right\}$$

VELOCITY OF SOUND

The velocity of sound C_S in a gas is given by

$$(16) \quad C_S^2 = g\gamma \left(\frac{\partial P}{\partial \rho} \right)_S$$

which yields with use of (3)

$$(17) \quad C_S^2 = g\gamma \frac{\left(\frac{R}{M} T + BP + CP^2 \right)^2}{\frac{R}{M} T - CP^2}$$

The expansion of (17) yields

$$(17a) \quad C_S = C_S^* + C_{S,1}P + C_{S,2}P^2$$

$$\text{with } C_S^* = \sqrt{\gamma^* \frac{R}{M} T}$$

$$C_{S,1} = \frac{1}{2} C_S^* \left[\frac{\gamma_1}{\gamma^*} + 2Z_1 \right]$$

$$C_{S,2} = \frac{1}{2} C_S^* \left\{ \left(\frac{C_{S,1}}{C_S^*} \right)^2 + \frac{\gamma_2}{\gamma^*} - \frac{1}{2} \left(\frac{\gamma_1}{\gamma^*} \right)^2 + 3Z_2 - Z_1^2 \right\}$$

EXPLANATION OF TABLES

The temperature dependent coefficients expressing the relations for computing important thermodynamic properties of gaseous uranium hexafluoride for a temperature range of 500°R to 999°R are listed in 1°R increments in a group of 3 tables.

Table I contains a list of coefficients for the equation of state, equation (1), and the coefficients for the speed of sound relation, equation (17a). Table II contains a list of coefficients for heat capacity, equation (2), and enthalpy, equation (8a). Table III contains a list of coefficients for the entropy relation, equation (12), and the ratio of specific heat, equation (15).

The decimal point in the various coefficients is located by following the convention of setting the heading of the column equal to the desired number in the column. As an illustration, if $Z_1(T)$ is desired at 650°R then

$$Z_1(T) \times 10^5 = -1.1708$$

$$Z_1(T) = -1.1708 \times 10^{-5}$$

The use of the tables may be illustrated with the following examples.

Example 1. Compute the density, ρ , of uranium hexafluoride at 650°R and 15 psia. $M = 352.07$, $R = 1545 \text{ ft-lbs/lb-mol }^{\circ}\text{R}$,

Using equation (1) and Table I, the values of the coefficients are $Z_1(650^{\circ}\text{R}) = -1.708 \times 10^{-5}$ and $Z_2(650^{\circ}\text{R}) = 1.3669 \times 10^{-10}$
 $15 \text{ psia} \times 144 \text{ sq.in./sq.ft.} = 2160 \text{ lbs./sq.ft.}$,
 and therefore,

$$\begin{aligned} \frac{MP}{\rho RT} &= 1 + (-1.1708 \times 10^{-5})(2160) + 1.3669 \times 10^{-10}(2160)^2 \\ &= 1 - 0.025289 + 0.00063774 \\ &= 0.97535 \end{aligned}$$

therefore

$$\begin{aligned} \rho &= \frac{MP}{(0.97535)RT} \\ &= \frac{(352.07 \text{ lbs/mol})(2160 \text{ lbs./sq.ft.})}{(0.97535)(1545 \text{ ft-lbs/lb-mol }^{\circ}\text{R})(650^{\circ}\text{R})} \\ &= 0.77639 \text{ lbs/cu.ft.} \end{aligned}$$

Example 2. Compute the speed of sound in uranium hexafluoride at 650°R . and 15 psia (2160 lbs./sq.ft.).

Using equation (17a) and Table I:

$$\begin{aligned} C_s &= 312.59 + (-3.2855 \times 10^{-3})(2160) + (6.4494 \times 10^{-6})(2160)^2 \\ &= 312.59 - 7.0973 + 0.30090 \\ &= 305.79 \text{ ft./sec.} \end{aligned}$$

BIBLIOGRAPHY

- [1] Magnuson, D. W., The Molar Polarization and Non-Ideality of Uranium Hexafluoride Vapor, Union Carbide Nuclear Company, April 26, 1954, (K-1118) Unclassified.
- [2] DeMarcus, W. C. and Starnes, M. P., The Intermolecular Interaction of UF₆ Molecules, Union Carbide Nuclear Company, June 23, 1954, (K-1114) Declassified.
- [3] Rossini, F. D., ed. Thermodynamics and Physics of Matter, Sec. A., Vol. 1, High Speed Aerodynamics and Jet Propulsion, Princeton University Press, Princeton, N. J., 1955.
- [4] Bigeleisen, J., Mayer, M. G., Stevenson, P. C., and Turkevich, J. "Vibrational Spectrum and Thermodynamic Properties of UF₆ Gas" J. Chem Phys 16, 442-5 (1948)

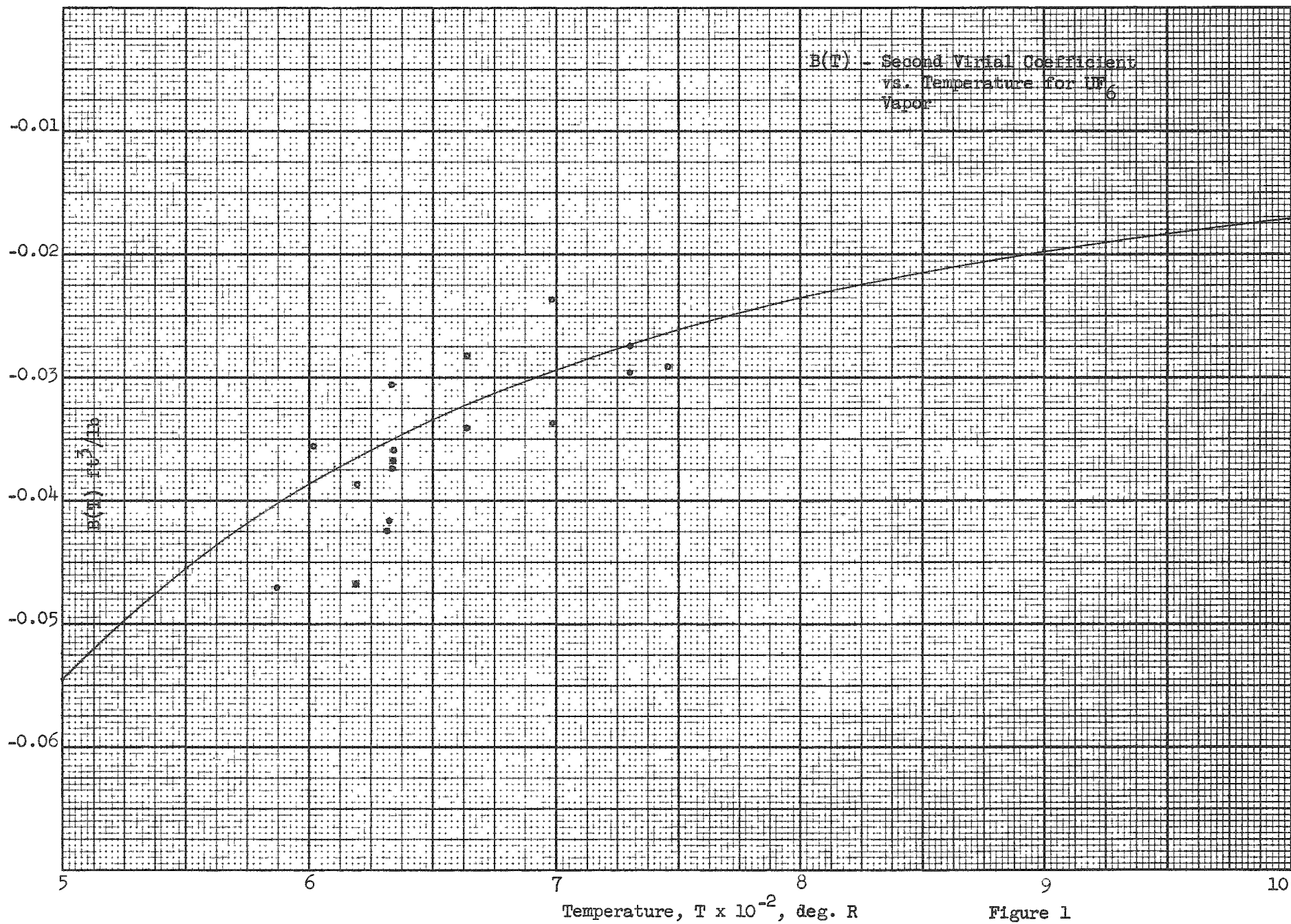


Figure 1

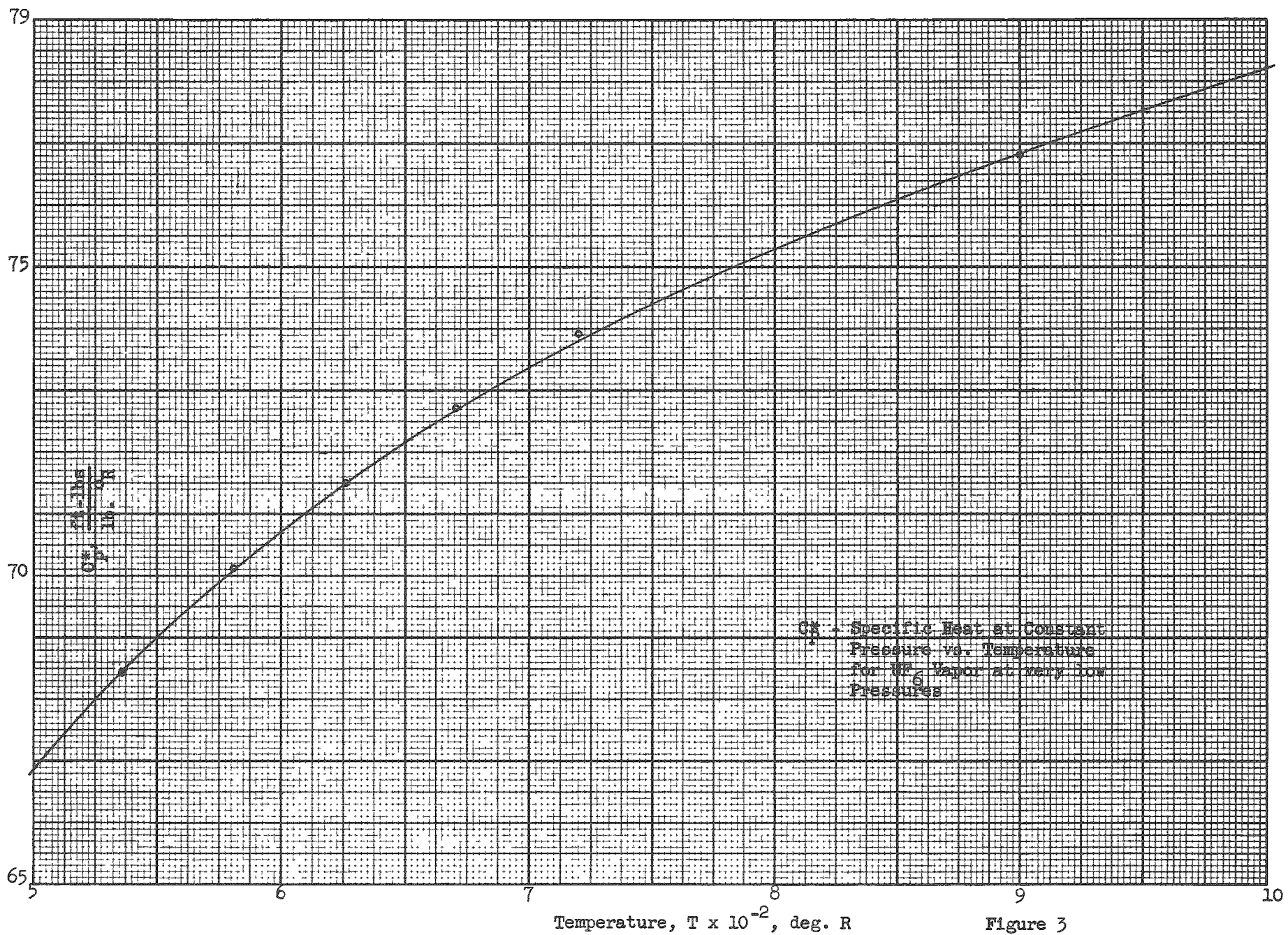


Figure 3

TABLE I

T, °R	Z*	Z ₁ (T)x10 ⁵	Z ₂ (T)x10 ¹⁰	C _s *	C _{s,1} x 10 ³	C _{s,2} x 10 ⁵
500.	1.	-2.4964	1.7770	274.86	-6.0016	7.2033
501.	1.	-2.4814	1.7734	275.13	-5.9728	7.1978
502.	1.	-2.4665	1.7699	275.40	-5.9441	7.1924
503.	1.	-2.4517	1.7664	275.66	-5.9157	7.1870
504.	1.	-2.4371	1.7629	275.93	-5.8874	7.1816
505.	1.	-2.4226	1.7594	276.20	-5.8594	7.1762
506.	1.	-2.4082	1.7559	276.46	-5.8316	7.1708
507.	1.	-2.3940	1.7524	276.73	-5.8040	7.1654
508.	1.	-2.3799	1.7490	277.00	-5.7766	7.1600
509.	1.	-2.3659	1.7455	277.26	-5.7494	7.1546
510.	1.	-2.3520	1.7421	277.53	-5.7224	7.1492
511.	1.	-2.3382	1.7387	277.79	-5.6956	7.1438
512.	1.	-2.3245	1.7353	278.06	-5.6690	7.1384
513.	1.	-2.3110	1.7319	278.32	-5.6426	7.1330
514.	1.	-2.2976	1.7286	278.59	-5.6164	7.1276
515.	1.	-2.2843	1.7252	278.85	-5.5904	7.1223
516.	1.	-2.2711	1.7219	279.12	-5.5645	7.1169
517.	1.	-2.2580	1.7185	279.38	-5.5389	7.1115
518.	1.	-2.2450	1.7152	279.64	-5.5134	7.1062
519.	1.	-2.2321	1.7119	279.91	-5.4882	7.1008
520.	1.	-2.2193	1.7086	280.17	-5.4631	7.0954
521.	1.	-2.2067	1.7053	280.43	-5.4382	7.0901
522.	1.	-2.1941	1.7021	280.70	-5.4134	7.0847
523.	1.	-2.1817	1.6988	280.96	-5.3889	7.0794
524.	1.	-2.1693	1.6956	281.22	-5.3645	7.0740
525.	1.	-2.1571	1.6923	281.48	-5.3403	7.0687
526.	1.	-2.1449	1.6891	281.75	-5.3163	7.0634
527.	1.	-2.1329	1.6859	282.01	-5.2924	7.0580
528.	1.	-2.1209	1.6827	282.27	-5.2687	7.0527
529.	1.	-2.1091	1.6795	282.53	-5.2452	7.0474
530.	1.	-2.0973	1.6764	282.79	-5.2218	7.0421
531.	1.	-2.0856	1.6732	283.05	-5.1986	7.0368
532.	1.	-2.0741	1.6701	283.31	-5.1756	7.0315
533.	1.	-2.0626	1.6669	283.57	-5.1527	7.0262
534.	1.	-2.0512	1.6638	283.83	-5.1300	7.0209
535.	1.	-2.0399	1.6607	284.09	-5.1075	7.0156
536.	1.	-2.0287	1.6576	284.35	-5.0851	7.0103
537.	1.	-2.0176	1.6545	284.61	-5.0628	7.0050
538.	1.	-2.0066	1.6514	284.87	-5.0408	6.9997
539.	1.	-1.9956	1.6484	285.13	-5.0188	6.9945
540.	1.	-1.9848	1.6453	285.39	-4.9970	6.9892
541.	1.	-1.9740	1.6423	285.65	-4.9754	6.9839
542.	1.	-1.9633	1.6393	285.91	-4.9539	6.9787
543.	1.	-1.9527	1.6362	286.16	-4.9326	6.9734
544.	1.	-1.9422	1.6332	286.42	-4.9114	6.9682
545.	1.	-1.9318	1.6302	286.68	-4.8904	6.9630
546.	1.	-1.9214	1.6273	286.94	-4.8695	6.9577
547.	1.	-1.9112	1.6243	287.19	-4.8487	6.9525
548.	1.	-1.9010	1.6213	287.45	-4.8281	6.9473
549.	1.	-1.8909	1.6184	287.71	-4.8076	6.9421

T, °R	Z*	Z ₁ (T)x10 ⁵	Z ₂ (T)x10 ¹⁰	C _s *	C _{s,1} x 10 ⁵	C _{s,2} x 10 ⁵
550.	1.	-1.8809	1.6154	287.96	-4.7873	6.9369
551.	1.	-1.8709	1.6125	288.22	-4.7671	6.9317
552.	1.	-1.8610	1.6096	288.48	-4.7470	6.9265
553.	1.	-1.8512	1.6067	288.73	-4.7271	6.9213
554.	1.	-1.8415	1.6038	288.99	-4.7073	6.9161
555.	1.	-1.8318	1.6009	289.24	-4.6876	6.9109
556.	1.	-1.8223	1.5980	289.50	-4.6681	6.9057
557.	1.	-1.8128	1.5951	289.75	-4.6487	6.9006
558.	1.	-1.8033	1.5923	290.01	-4.6294	6.8954
559.	1.	-1.7940	1.5894	290.26	-4.6103	6.8902
560.	1.	-1.7847	1.5866	290.52	-4.5912	6.8851
561.	1.	-1.7755	1.5837	290.77	-4.5723	6.8799
562.	1.	-1.7663	1.5809	291.03	-4.5536	6.8748
563.	1.	-1.7572	1.5781	291.28	-4.5349	6.8697
564.	1.	-1.7482	1.5753	291.53	-4.5164	6.8646
565.	1.	-1.7393	1.5725	291.79	-4.4980	6.8594
566.	1.	-1.7304	1.5698	292.04	-4.4797	6.8543
567.	1.	-1.7216	1.5670	292.29	-4.4615	6.8492
568.	1.	-1.7129	1.5642	292.54	-4.4435	6.8441
569.	1.	-1.7042	1.5615	292.80	-4.4256	6.8390
570.	1.	-1.6956	1.5587	293.05	-4.4076	6.8339
571.	1.	-1.6870	1.5560	293.30	-4.3901	6.8289
572.	1.	-1.6785	1.5533	293.55	-4.3725	6.8238
573.	1.	-1.6701	1.5506	293.80	-4.3550	6.8187
574.	1.	-1.6617	1.5479	294.06	-4.3376	6.8136
575.	1.	-1.6534	1.5452	294.31	-4.3204	6.8086
576.	1.	-1.6452	1.5425	294.56	-4.3032	6.8035
577.	1.	-1.6370	1.5398	294.81	-4.2862	6.7985
578.	1.	-1.6289	1.5372	295.06	-4.2693	6.7935
579.	1.	-1.6208	1.5345	295.31	-4.2525	6.7884
580.	1.	-1.6128	1.5319	295.56	-4.2358	6.7834
581.	1.	-1.6049	1.5292	295.81	-4.2192	6.7784
582.	1.	-1.5970	1.5266	296.06	-4.2027	6.7734
583.	1.	-1.5891	1.5240	296.31	-4.1863	6.7684
584.	1.	-1.5814	1.5214	296.56	-4.1700	6.7634
585.	1.	-1.5736	1.5188	296.81	-4.1538	6.7584
586.	1.	-1.5660	1.5162	297.06	-4.1377	6.7534
587.	1.	-1.5584	1.5136	297.31	-4.1217	6.7485
588.	1.	-1.5508	1.5110	297.55	-4.1059	6.7435
589.	1.	-1.5433	1.5085	297.80	-4.0901	6.7385
590.	1.	-1.5359	1.5059	298.05	-4.0744	6.7336
591.	1.	-1.5285	1.5034	298.30	-4.0588	6.7286
592.	1.	-1.5211	1.5008	298.55	-4.0433	6.7237
593.	1.	-1.5138	1.4983	298.79	-4.0279	6.7188
594.	1.	-1.5066	1.4958	299.04	-4.0126	6.7138
595.	1.	-1.4994	1.4932	299.29	-3.9974	6.7089
596.	1.	-1.4923	1.4907	299.54	-3.9823	6.7040
597.	1.	-1.4852	1.4882	299.78	-3.9672	6.6991
598.	1.	-1.4781	1.4856	300.03	-3.9523	6.6942
599.	1.	-1.4712	1.4833	300.28	-3.9374	6.6893

T, °R	Z _x	Z ₁ (T) · 10 ⁵	Z ₂ (T) · 10 ¹⁰	C ₃	C _{3,1} · 10 ³	C _{3,2} · 10 ⁵
600.	1.	-1.4642	1.4808	300.52	-3.9227	6.6844
601.	1.	-1.4573	1.4783	300.77	-3.9380	6.6796
602.	1.	-1.4505	1.4759	301.01	-3.9533	6.6747
603.	1.	-1.4437	1.4734	301.26	-3.9679	6.6698
604.	1.	-1.4369	1.4710	301.50	-3.9826	6.6650
605.	1.	-1.4302	1.4686	301.75	-3.9973	6.6601
606.	1.	-1.4236	1.4661	301.99	-4.0120	6.6553
607.	1.	-1.4170	1.4637	302.24	-4.0267	6.6504
608.	1.	-1.4104	1.4613	302.48	-4.0414	6.6456
609.	1.	-1.4039	1.4589	302.73	-4.0561	6.6408
610.	1.	-1.3974	1.4565	302.97	-4.0708	6.6360
611.	1.	-1.3910	1.4541	303.22	-4.0855	6.6312
612.	1.	-1.3846	1.4518	303.46	-4.1002	6.6264
613.	1.	-1.3782	1.4494	303.70	-4.1149	6.6216
614.	1.	-1.3719	1.4470	303.95	-4.1296	6.6168
615.	1.	-1.3657	1.4447	304.19	-4.1443	6.6120
616.	1.	-1.3595	1.4423	304.43	-4.1590	6.6073
617.	1.	-1.3533	1.4400	304.68	-4.1737	6.6025
618.	1.	-1.3471	1.4377	304.92	-4.1884	6.5977
619.	1.	-1.3411	1.4353	305.16	-4.2031	6.5930
620.	1.	-1.3350	1.4330	305.41	-4.2178	6.5882
621.	1.	-1.3290	1.4307	305.65	-4.2325	6.5835
622.	1.	-1.3230	1.4284	305.89	-4.2472	6.5788
623.	1.	-1.3171	1.4261	306.13	-4.2619	6.5741
624.	1.	-1.3112	1.4238	306.37	-4.2766	6.5694
625.	1.	-1.3053	1.4216	306.61	-4.2913	6.5646
626.	1.	-1.2995	1.4193	306.85	-4.3060	6.5600
627.	1.	-1.2937	1.4170	307.10	-4.3207	6.5553
628.	1.	-1.2880	1.4148	307.34	-4.3354	6.5506
629.	1.	-1.2823	1.4125	307.58	-4.3501	6.5459
630.	1.	-1.2766	1.4103	307.82	-4.3648	6.5412
631.	1.	-1.2710	1.4081	308.06	-4.3795	6.5366
632.	1.	-1.2654	1.4059	308.30	-4.3942	6.5319
633.	1.	-1.2599	1.4037	308.54	-4.4089	6.5273
634.	1.	-1.2544	1.4014	308.78	-4.4236	6.5226
635.	1.	-1.2489	1.3992	309.02	-4.4383	6.5180
636.	1.	-1.2434	1.3970	309.26	-4.4530	6.5134
637.	1.	-1.2380	1.3948	309.50	-4.4677	6.5087
638.	1.	-1.2326	1.3926	309.74	-4.4824	6.5041
639.	1.	-1.2273	1.3904	309.97	-4.4971	6.4995
640.	1.	-1.2220	1.3882	310.21	-4.5118	6.4949
641.	1.	-1.2167	1.3861	310.45	-4.5265	6.4903
642.	1.	-1.2115	1.3839	310.69	-4.5412	6.4858
643.	1.	-1.2063	1.3818	310.93	-4.5559	6.4812
644.	1.	-1.2011	1.3796	311.17	-4.5706	6.4766
645.	1.	-1.1960	1.3775	311.40	-4.5853	6.4721
646.	1.	-1.1909	1.3754	311.64	-4.6000	6.4675
647.	1.	-1.1858	1.3732	311.88	-4.6147	6.4630
648.	1.	-1.1808	1.3711	312.12	-4.6294	6.4584
649.	1.	-1.1757	1.3690	312.35	-4.6441	6.4539

$T, ^\circ R$	Z^*	$Z_{\perp}(T) \cdot 10^5$	$Z_{\perp}(T) \cdot 10^{10}$	C_s^*	$C_{s,1} \times 10^3$	$C_{s,2} \times 10^5$
700.	1.	-0.9571	1.2693	324.22	-2.8028	6.2322
701.	1.	-0.9534	1.2674	324.45	-2.7943	6.2280
702.	1.	-0.9498	1.2656	324.66	-2.7859	6.2239
703.	1.	-0.9462	1.2638	324.90	-2.7776	6.2197
704.	1.	-0.9426	1.2620	325.13	-2.7693	6.2156
705.	1.	-0.9390	1.2603	325.36	-2.7610	6.2114
706.	1.	-0.9354	1.2585	325.59	-2.7528	6.2073
707.	1.	-0.9319	1.2567	325.82	-2.7446	6.2032
708.	1.	-0.9284	1.2549	326.04	-2.7364	6.1991
709.	1.	-0.9249	1.2531	326.27	-2.7283	6.1949
710.	1.	-0.9214	1.2514	326.50	-2.7202	6.1908
711.	1.	-0.9179	1.2496	326.72	-2.7122	6.1867
712.	1.	-0.9145	1.2479	326.95	-2.7042	6.1827
713.	1.	-0.9111	1.2461	327.18	-2.6963	6.1786
714.	1.	-0.9077	1.2444	327.40	-2.6884	6.1745
715.	1.	-0.9043	1.2426	327.63	-2.6805	6.1704
716.	1.	-0.9009	1.2409	327.86	-2.6727	6.1664
717.	1.	-0.8976	1.2392	328.08	-2.6649	6.1623
718.	1.	-0.8943	1.2374	328.31	-2.6571	6.1583
719.	1.	-0.8910	1.2357	328.53	-2.6494	6.1542
720.	1.	-0.8877	1.2340	328.76	-2.6417	6.1502
721.	1.	-0.8844	1.2323	328.98	-2.6340	6.1462
722.	1.	-0.8812	1.2306	329.21	-2.6264	6.1421
723.	1.	-0.8779	1.2289	329.43	-2.6189	6.1381
724.	1.	-0.8747	1.2272	329.66	-2.6113	6.1341
725.	1.	-0.8715	1.2255	329.88	-2.6038	6.1301
726.	1.	-0.8684	1.2238	330.11	-2.5964	6.1261
727.	1.	-0.8652	1.2221	330.33	-2.5889	6.1221
728.	1.	-0.8620	1.2204	330.56	-2.5815	6.1181
729.	1.	-0.8589	1.2188	330.78	-2.5742	6.1142
730.	1.	-0.8558	1.2171	331.00	-2.5669	6.1102
731.	1.	-0.8527	1.2154	331.23	-2.5596	6.1062
732.	1.	-0.8496	1.2138	331.45	-2.5523	6.1023
733.	1.	-0.8466	1.2121	331.67	-2.5451	6.0983
734.	1.	-0.8435	1.2105	331.90	-2.5379	6.0944
735.	1.	-0.8405	1.2088	332.12	-2.5308	6.0904
736.	1.	-0.8375	1.2072	332.34	-2.5236	6.0865
737.	1.	-0.8345	1.2055	332.57	-2.5166	6.0826
738.	1.	-0.8315	1.2039	332.79	-2.5095	6.0787
739.	1.	-0.8286	1.2023	333.01	-2.5025	6.0748
740.	1.	-0.8256	1.2006	333.23	-2.4955	6.0708
741.	1.	-0.8227	1.1990	333.46	-2.4885	6.0669
742.	1.	-0.8198	1.1974	333.68	-2.4816	6.0631
743.	1.	-0.8169	1.1958	333.90	-2.4747	6.0592
744.	1.	-0.8140	1.1942	334.12	-2.4679	6.0553
745.	1.	-0.8111	1.1926	334.34	-2.4611	6.0514
746.	1.	-0.8083	1.1910	334.57	-2.4543	6.0476
747.	1.	-0.8054	1.1894	334.79	-2.4475	6.0437
748.	1.	-0.8026	1.1878	335.01	-2.4408	6.0398
749.	1.	-0.7998	1.1862	335.23	-2.4341	6.0360

T, °R	Z*	Z ₁ (T)x10 ⁵	Z ₂ (T)x10 ¹⁰	C _s *	C _{s,1} x 10 ³	C _{s,2} x 10 ⁸
750.	1.	-0.797C	1.1846	335.45	-2.4274	6.0322
751.	1.	-0.7942	1.1831	335.67	-2.4208	6.0283
752.	1.	-0.7915	1.1815	335.89	-2.4142	6.0245
753.	1.	-0.7887	1.1799	336.11	-2.4076	6.0207
754.	1.	-0.7860	1.1784	336.33	-2.4010	6.0169
755.	1.	-0.7833	1.1768	336.55	-2.3945	6.0130
756.	1.	-0.7806	1.1752	336.77	-2.3880	6.0092
757.	1.	-0.7779	1.1737	336.99	-2.3816	6.0054
758.	1.	-0.7752	1.1721	337.21	-2.3752	6.0017
759.	1.	-0.7725	1.1706	337.43	-2.3688	5.9979
760.	1.	-0.7699	1.1691	337.65	-2.3624	5.9941
761.	1.	-0.7672	1.1675	337.87	-2.3560	5.9903
762.	1.	-0.7646	1.1660	338.09	-2.3497	5.9866
763.	1.	-0.7620	1.1645	338.31	-2.3435	5.9828
764.	1.	-0.7594	1.1629	338.53	-2.3372	5.9790
765.	1.	-0.7568	1.1614	338.75	-2.3310	5.9753
766.	1.	-0.7543	1.1599	338.97	-2.3248	5.9716
767.	1.	-0.7517	1.1584	339.19	-2.3186	5.9678
768.	1.	-0.7492	1.1569	339.40	-2.3125	5.9641
769.	1.	-0.7466	1.1554	339.62	-2.3063	5.9604
770.	1.	-0.7441	1.1539	339.84	-2.3002	5.9567
771.	1.	-0.7416	1.1524	340.06	-2.2942	5.9529
772.	1.	-0.7391	1.1509	340.28	-2.2881	5.9492
773.	1.	-0.7366	1.1494	340.49	-2.2821	5.9455
774.	1.	-0.7342	1.1479	340.71	-2.2762	5.9419
775.	1.	-0.7317	1.1464	340.93	-2.2702	5.9382
776.	1.	-0.7293	1.1449	341.15	-2.2643	5.9345
777.	1.	-0.7269	1.1435	341.36	-2.2584	5.9308
778.	1.	-0.7244	1.1420	341.58	-2.2525	5.9271
779.	1.	-0.7220	1.1405	341.80	-2.2466	5.9235
780.	1.	-0.7196	1.1391	342.01	-2.2408	5.9198
781.	1.	-0.7173	1.1376	342.23	-2.2350	5.9162
782.	1.	-0.7149	1.1362	342.45	-2.2292	5.9125
783.	1.	-0.7125	1.1347	342.66	-2.2235	5.9089
784.	1.	-0.7102	1.1333	342.88	-2.2178	5.9053
785.	1.	-0.7079	1.1318	343.10	-2.2121	5.9016
786.	1.	-0.7055	1.1304	343.31	-2.2064	5.8980
787.	1.	-0.7032	1.1289	343.53	-2.2007	5.8944
788.	1.	-0.7009	1.1275	343.74	-2.1951	5.8908
789.	1.	-0.6986	1.1261	343.96	-2.1895	5.8872
790.	1.	-0.6964	1.1247	344.17	-2.1839	5.8836
791.	1.	-0.6941	1.1232	344.39	-2.1784	5.8800
792.	1.	-0.6918	1.1218	344.60	-2.1728	5.8764
793.	1.	-0.6896	1.1204	344.82	-2.1673	5.8728
794.	1.	-0.6874	1.1190	345.03	-2.1619	5.8693
795.	1.	-0.6852	1.1176	345.25	-2.1564	5.8657
796.	1.	-0.6829	1.1162	345.46	-2.1510	5.8621
797.	1.	-0.6807	1.1148	345.68	-2.1455	5.8586
798.	1.	-0.6786	1.1134	345.89	-2.1402	5.8550
799.	1.	-0.6764	1.1120	346.11	-2.1348	5.8515

T, °R	Z*	Z ₁ (T)x10 ⁵	Z ₂ (T)x10 ¹⁰	C _s *	C _{s,1} x 10 ³	C _{s,2} x 10 ⁵
800.	1.	-0.6742	1.1106	346.32	-2.1294	5.8480
801.	1.	-0.6721	1.1092	346.53	-2.1241	5.8444
802.	1.	-0.6699	1.1078	346.75	-2.1188	5.8409
803.	1.	-0.6678	1.1065	346.96	-2.1135	5.8374
804.	1.	-0.6657	1.1051	347.18	-2.1083	5.8339
805.	1.	-0.6635	1.1037	347.39	-2.1031	5.8304
806.	1.	-0.6614	1.1023	347.60	-2.0978	5.8268
807.	1.	-0.6593	1.1010	347.82	-2.0927	5.8233
808.	1.	-0.6573	1.0996	348.03	-2.0875	5.8199
809.	1.	-0.6552	1.0982	348.24	-2.0823	5.8164
810.	1.	-0.6531	1.0969	348.45	-2.0772	5.8129
811.	1.	-0.6511	1.0955	348.67	-2.0721	5.8094
812.	1.	-0.6490	1.0942	348.88	-2.0670	5.8059
813.	1.	-0.6470	1.0928	349.09	-2.0620	5.8025
814.	1.	-0.6450	1.0915	349.30	-2.0569	5.7990
815.	1.	-0.6429	1.0902	349.52	-2.0519	5.7956
816.	1.	-0.6409	1.0888	349.73	-2.0469	5.7921
817.	1.	-0.6389	1.0875	349.94	-2.0419	5.7887
818.	1.	-0.6370	1.0862	350.15	-2.0370	5.7852
819.	1.	-0.6350	1.0848	350.36	-2.0321	5.7818
820.	1.	-0.6330	1.0835	350.57	-2.0271	5.7784
821.	1.	-0.6310	1.0822	350.79	-2.0222	5.7750
822.	1.	-0.6291	1.0809	351.00	-2.0174	5.7715
823.	1.	-0.6272	1.0796	351.21	-2.0125	5.7681
824.	1.	-0.6252	1.0783	351.42	-2.0077	5.7647
825.	1.	-0.6233	1.0769	351.63	-2.0029	5.7613
826.	1.	-0.6214	1.0756	351.84	-1.9981	5.7579
827.	1.	-0.6195	1.0743	352.05	-1.9933	5.7546
828.	1.	-0.6176	1.0730	352.26	-1.9885	5.7512
829.	1.	-0.6157	1.0717	352.47	-1.9838	5.7478
830.	1.	-0.6138	1.0705	352.68	-1.9791	5.7444
831.	1.	-0.6120	1.0692	352.89	-1.9744	5.7411
832.	1.	-0.6101	1.0679	353.10	-1.9697	5.7377
833.	1.	-0.6082	1.0666	353.31	-1.9650	5.7343
834.	1.	-0.6064	1.0653	353.52	-1.9604	5.7310
835.	1.	-0.6046	1.0640	353.73	-1.9558	5.7277
836.	1.	-0.6027	1.0628	353.94	-1.9511	5.7243
837.	1.	-0.6009	1.0615	354.15	-1.9466	5.7210
838.	1.	-0.5991	1.0602	354.36	-1.9420	5.7177
839.	1.	-0.5973	1.0590	354.57	-1.9374	5.7143
840.	1.	-0.5955	1.0577	354.78	-1.9329	5.7110
841.	1.	-0.5937	1.0565	354.99	-1.9284	5.7077
842.	1.	-0.5920	1.0552	355.19	-1.9239	5.7044
843.	1.	-0.5902	1.0540	355.40	-1.9194	5.7011
844.	1.	-0.5884	1.0527	355.61	-1.9150	5.6978
845.	1.	-0.5867	1.0515	355.82	-1.9105	5.6945
846.	1.	-0.5849	1.0502	356.03	-1.9061	5.6912
847.	1.	-0.5832	1.0490	356.24	-1.9017	5.6879
848.	1.	-0.5815	1.0477	356.44	-1.8973	5.6847
849.	1.	-0.5797	1.0465	356.65	-1.8929	5.6814

T, °R	Z*	Z ₁ (T) × 10 ⁵	Z ₂ (T) × 10 ¹⁰	C _s *	C _{s,1} × 10 ³	C _{s,2} × 10 ⁸
850.	1.	-0.5780	1.0453	356.86	-1.8885	5.6781
851.	1.	-0.5763	1.0440	357.07	-1.8842	5.6749
852.	1.	-0.5746	1.0428	357.28	-1.8799	5.6716
853.	1.	-0.5729	1.0416	357.48	-1.8756	5.6684
854.	1.	-0.5712	1.0404	357.69	-1.8713	5.6651
855.	1.	-0.5696	1.0392	357.90	-1.8670	5.6619
856.	1.	-0.5679	1.0379	358.10	-1.8628	5.6586
857.	1.	-0.5662	1.0367	358.31	-1.8585	5.6554
858.	1.	-0.5646	1.0355	358.52	-1.8543	5.6522
859.	1.	-0.5629	1.0343	358.72	-1.8501	5.6490
860.	1.	-0.5613	1.0331	358.93	-1.8459	5.6457
861.	1.	-0.5597	1.0319	359.14	-1.8417	5.6425
862.	1.	-0.5581	1.0307	359.34	-1.8376	5.6393
863.	1.	-0.5564	1.0295	359.55	-1.8334	5.6361
864.	1.	-0.5548	1.0283	359.76	-1.8293	5.6329
865.	1.	-0.5532	1.0271	359.96	-1.8252	5.6298
866.	1.	-0.5516	1.0260	360.17	-1.8211	5.6266
867.	1.	-0.5500	1.0248	360.37	-1.8170	5.6234
868.	1.	-0.5485	1.0236	360.58	-1.8130	5.6202
869.	1.	-0.5469	1.0224	360.78	-1.8089	5.6170
870.	1.	-0.5453	1.0212	360.99	-1.8049	5.6139
871.	1.	-0.5438	1.0201	361.20	-1.8009	5.6107
872.	1.	-0.5422	1.0189	361.40	-1.7969	5.6076
873.	1.	-0.5407	1.0177	361.61	-1.7929	5.6044
874.	1.	-0.5391	1.0166	361.81	-1.7889	5.6013
875.	1.	-0.5376	1.0154	362.02	-1.7849	5.5981
876.	1.	-0.5361	1.0142	362.22	-1.7810	5.5950
877.	1.	-0.5345	1.0131	362.42	-1.7771	5.5919
878.	1.	-0.5330	1.0119	362.63	-1.7732	5.5887
879.	1.	-0.5315	1.0108	362.83	-1.7693	5.5856
880.	1.	-0.5300	1.0096	363.04	-1.7654	5.5825
881.	1.	-0.5285	1.0085	363.24	-1.7615	5.5794
882.	1.	-0.5270	1.0073	363.45	-1.7577	5.5763
883.	1.	-0.5255	1.0062	363.65	-1.7538	5.5732
884.	1.	-0.5241	1.0051	363.85	-1.7500	5.5701
885.	1.	-0.5226	1.0039	364.06	-1.7462	5.5670
886.	1.	-0.5211	1.0028	364.26	-1.7424	5.5639
887.	1.	-0.5197	1.0017	364.46	-1.7386	5.5608
888.	1.	-0.5182	1.0005	364.67	-1.7348	5.5578
889.	1.	-0.5168	0.9994	364.87	-1.7311	5.5547
890.	1.	-0.5154	0.9983	365.07	-1.7273	5.5516
891.	1.	-0.5139	0.9972	365.28	-1.7236	5.5486
892.	1.	-0.5125	0.9961	365.48	-1.7199	5.5455
893.	1.	-0.5111	0.9949	365.68	-1.7162	5.5424
894.	1.	-0.5097	0.9938	365.88	-1.7125	5.5394
895.	1.	-0.5083	0.9927	366.09	-1.7088	5.5363
896.	1.	-0.5069	0.9916	366.29	-1.7052	5.5333
897.	1.	-0.5055	0.9905	366.49	-1.7015	5.5303
898.	1.	-0.5041	0.9894	366.69	-1.6979	5.5272
899.	1.	-0.5027	0.9883	366.90	-1.6943	5.5242

T, °R	Z*	Z ₁ (T)x10 ⁵	Z ₂ (T)x10 ¹⁰	C _s *	C _{s,1} x 10 ⁵	C _{s,2} x 10 ⁸
900.	1.	-0.5013	0.9872	367.10	-1.6907	5.5212
901.	1.	-0.4999	0.9861	367.30	-1.6871	5.5182
902.	1.	-0.4986	0.9850	367.50	-1.6835	5.5152
903.	1.	-0.4972	0.9839	367.70	-1.6799	5.5122
904.	1.	-0.4959	0.9828	367.90	-1.6764	5.5092
905.	1.	-0.4945	0.9817	368.11	-1.6728	5.5062
906.	1.	-0.4932	0.9807	368.31	-1.6693	5.5032
907.	1.	-0.4918	0.9796	368.51	-1.6658	5.5002
908.	1.	-0.4905	0.9785	368.71	-1.6623	5.4972
909.	1.	-0.4892	0.9774	368.91	-1.6588	5.4942
910.	1.	-0.4878	0.9764	369.11	-1.6553	5.4912
911.	1.	-0.4865	0.9753	369.31	-1.6519	5.4883
912.	1.	-0.4852	0.9742	369.51	-1.6484	5.4853
913.	1.	-0.4839	0.9731	369.71	-1.6450	5.4823
914.	1.	-0.4826	0.9721	369.91	-1.6415	5.4794
915.	1.	-0.4813	0.9710	370.11	-1.6381	5.4764
916.	1.	-0.4800	0.9700	370.31	-1.6347	5.4735
917.	1.	-0.4787	0.9689	370.51	-1.6313	5.4705
918.	1.	-0.4775	0.9678	370.71	-1.6280	5.4676
919.	1.	-0.4762	0.9668	370.91	-1.6246	5.4647
920.	1.	-0.4749	0.9657	371.11	-1.6212	5.4617
921.	1.	-0.4737	0.9647	371.31	-1.6179	5.4588
922.	1.	-0.4724	0.9636	371.51	-1.6146	5.4559
923.	1.	-0.4711	0.9626	371.71	-1.6112	5.4530
924.	1.	-0.4699	0.9616	371.91	-1.6079	5.4501
925.	1.	-0.4687	0.9605	372.11	-1.6046	5.4471
926.	1.	-0.4674	0.9595	372.31	-1.6014	5.4442
927.	1.	-0.4662	0.9584	372.51	-1.5981	5.4413
928.	1.	-0.4650	0.9574	372.71	-1.5948	5.4384
929.	1.	-0.4637	0.9564	372.91	-1.5916	5.4356
930.	1.	-0.4625	0.9554	373.10	-1.5885	5.4327
931.	1.	-0.4613	0.9543	373.30	-1.5851	5.4298
932.	1.	-0.4601	0.9533	373.50	-1.5819	5.4269
933.	1.	-0.4589	0.9523	373.70	-1.5787	5.4240
934.	1.	-0.4577	0.9513	373.90	-1.5755	5.4212
935.	1.	-0.4565	0.9502	374.10	-1.5723	5.4183
936.	1.	-0.4553	0.9492	374.29	-1.5691	5.4154
937.	1.	-0.4541	0.9482	374.49	-1.5660	5.4126
938.	1.	-0.4529	0.9472	374.69	-1.5628	5.4097
939.	1.	-0.4518	0.9462	374.89	-1.5597	5.4069
940.	1.	-0.4506	0.9452	375.09	-1.5566	5.4040
941.	1.	-0.4494	0.9442	375.28	-1.5534	5.4012
942.	1.	-0.4483	0.9432	375.48	-1.5503	5.3984
943.	1.	-0.4471	0.9422	375.68	-1.5472	5.3955
944.	1.	-0.4460	0.9412	375.87	-1.5441	5.3927
945.	1.	-0.4448	0.9402	376.07	-1.5411	5.3899
946.	1.	-0.4437	0.9392	376.27	-1.5380	5.3871
947.	1.	-0.4425	0.9382	376.47	-1.5350	5.3842
948.	1.	-0.4414	0.9372	376.66	-1.5319	5.3814
949.	1.	-0.4403	0.9362	376.86	-1.5289	5.3786

T, °R	Z*	Z ₁ (T)x10 ⁵	Z ₂ (T)x10 ¹⁰	C _s *	C _{s,1} x 10 ³	C _{s,2} x 10 ⁸
950.	1.	-0.4392	0.9352	377.06	-1.5259	5.3758
951.	1.	-0.4380	0.9343	377.25	-1.5228	5.3730
952.	1.	-0.4369	0.9333	377.45	-1.5198	5.3702
953.	1.	-0.4358	0.9323	377.64	-1.5168	5.3674
954.	1.	-0.4347	0.9313	377.84	-1.5139	5.3647
955.	1.	-0.4336	0.9303	378.04	-1.5109	5.3619
956.	1.	-0.4325	0.9294	378.23	-1.5079	5.3591
957.	1.	-0.4314	0.9284	378.43	-1.5050	5.3563
958.	1.	-0.4303	0.9274	378.62	-1.5020	5.3536
959.	1.	-0.4292	0.9265	378.82	-1.4991	5.3508
960.	1.	-0.4281	0.9255	379.02	-1.4962	5.3480
961.	1.	-0.4271	0.9245	379.21	-1.4933	5.3453
962.	1.	-0.4260	0.9236	379.41	-1.4904	5.3425
963.	1.	-0.4249	0.9226	379.60	-1.4875	5.3398
964.	1.	-0.4239	0.9217	379.80	-1.4846	5.3370
965.	1.	-0.4228	0.9207	379.99	-1.4817	5.3343
966.	1.	-0.4217	0.9198	380.19	-1.4789	5.3316
967.	1.	-0.4207	0.9188	380.38	-1.4760	5.3288
968.	1.	-0.4196	0.9179	380.58	-1.4732	5.3261
969.	1.	-0.4186	0.9169	380.77	-1.4703	5.3234
970.	1.	-0.4176	0.9160	380.97	-1.4675	5.3206
971.	1.	-0.4165	0.9150	381.16	-1.4647	5.3179
972.	1.	-0.4155	0.9141	381.35	-1.4619	5.3152
973.	1.	-0.4145	0.9131	381.55	-1.4591	5.3125
974.	1.	-0.4134	0.9122	381.74	-1.4563	5.3098
975.	1.	-0.4124	0.9113	381.94	-1.4535	5.3071
976.	1.	-0.4114	0.9103	382.13	-1.4507	5.3044
977.	1.	-0.4104	0.9094	382.32	-1.4480	5.3017
978.	1.	-0.4094	0.9085	382.52	-1.4452	5.2990
979.	1.	-0.4084	0.9075	382.71	-1.4425	5.2963
980.	1.	-0.4074	0.9066	382.91	-1.4397	5.2936
981.	1.	-0.4064	0.9057	383.10	-1.4370	5.2910
982.	1.	-0.4054	0.9048	383.29	-1.4343	5.2883
983.	1.	-0.4044	0.9038	383.49	-1.4316	5.2856
984.	1.	-0.4034	0.9029	383.68	-1.4289	5.2830
985.	1.	-0.4024	0.9020	383.87	-1.4262	5.2803
986.	1.	-0.4014	0.9011	384.07	-1.4235	5.2776
987.	1.	-0.4005	0.9002	384.26	-1.4208	5.2750
988.	1.	-0.3995	0.8993	384.45	-1.4182	5.2723
989.	1.	-0.3985	0.8984	384.64	-1.4155	5.2697
990.	1.	-0.3975	0.8975	384.84	-1.4129	5.2670
991.	1.	-0.3966	0.8965	385.03	-1.4102	5.2644
992.	1.	-0.3956	0.8956	385.22	-1.4076	5.2618
993.	1.	-0.3947	0.8947	385.41	-1.4050	5.2591
994.	1.	-0.3937	0.8938	385.61	-1.4024	5.2565
995.	1.	-0.3928	0.8929	385.80	-1.3998	5.2539
996.	1.	-0.3918	0.8920	385.99	-1.3972	5.2513
997.	1.	-0.3909	0.8912	386.18	-1.3946	5.2486
998.	1.	-0.3900	0.8903	386.37	-1.3920	5.2460
999.	1.	-0.3890	0.8894	386.56	-1.3894	5.2434

TABLE II

T, °R	C _p *	C _{p,1} (T)x10 ⁴	C _{p,2}	H*	H ₁ (T)x10 ¹	H ₂ (T)x10 ⁷
500.	66.920	7.7936	0.	42784.	-1.6537	1.9495
501.	66.968	7.7357	0.	42851.	-1.6460	1.9495
502.	67.016	7.6785	0.	42918.	-1.6383	1.9495
503.	67.063	7.6217	0.	42985.	-1.6306	1.9495
504.	67.111	7.5655	0.	43052.	-1.6230	1.9495
505.	67.158	7.5099	0.	43119.	-1.6155	1.9495
506.	67.205	7.4547	0.	43186.	-1.6080	1.9495
507.	67.251	7.4001	0.	43254.	-1.6006	1.9495
508.	67.298	7.3460	0.	43321.	-1.5932	1.9495
509.	67.344	7.2925	0.	43388.	-1.5859	1.9495
510.	67.390	7.2394	0.	43455.	-1.5786	1.9495
511.	67.436	7.1869	0.	43523.	-1.5714	1.9495
512.	67.481	7.1348	0.	43590.	-1.5642	1.9495
513.	67.526	7.0832	0.	43658.	-1.5571	1.9495
514.	67.571	7.0321	0.	43725.	-1.5501	1.9495
515.	67.616	6.9815	0.	43793.	-1.5431	1.9495
516.	67.661	6.9314	0.	43861.	-1.5361	1.9495
517.	67.705	6.8817	0.	43928.	-1.5292	1.9495
518.	67.749	6.8325	0.	43996.	-1.5223	1.9495
519.	67.793	6.7838	0.	44064.	-1.5155	1.9495
520.	67.837	6.7355	0.	44132.	-1.5088	1.9495
521.	67.881	6.6877	0.	44199.	-1.5021	1.9495
522.	67.924	6.6403	0.	44267.	-1.4954	1.9495
523.	67.967	6.5933	0.	44335.	-1.4888	1.9495
524.	68.010	6.5468	0.	44403.	-1.4822	1.9495
525.	68.053	6.5007	0.	44471.	-1.4757	1.9495
526.	68.095	6.4550	0.	44539.	-1.4692	1.9495
527.	68.137	6.4097	0.	44608.	-1.4628	1.9495
528.	68.180	6.3649	0.	44676.	-1.4564	1.9495
529.	68.222	6.3205	0.	44744.	-1.4500	1.9495
530.	68.263	6.2764	0.	44812.	-1.4437	1.9495
531.	68.305	6.2328	0.	44880.	-1.4375	1.9495
532.	68.346	6.1896	0.	44949.	-1.4313	1.9495
533.	68.387	6.1467	0.	45017.	-1.4251	1.9495
534.	68.428	6.1043	0.	45086.	-1.4190	1.9495
535.	68.469	6.0622	0.	45154.	-1.4129	1.9495
536.	68.509	6.0205	0.	45222.	-1.4069	1.9495
537.	68.550	5.9792	0.	45291.	-1.4009	1.9495
538.	68.590	5.9382	0.	45360.	-1.3949	1.9495
539.	68.630	5.8976	0.	45428.	-1.3890	1.9495
540.	68.670	5.8574	0.	45497.	-1.3831	1.9495
541.	68.710	5.8175	0.	45566.	-1.3773	1.9495
542.	68.749	5.7780	0.	45634.	-1.3715	1.9495
543.	68.788	5.7389	0.	45703.	-1.3657	1.9495
544.	68.827	5.7001	0.	45772.	-1.3600	1.9495
545.	68.866	5.6616	0.	45841.	-1.3543	1.9495
546.	68.905	5.6235	0.	45910.	-1.3487	1.9495
547.	68.944	5.5857	0.	45978.	-1.3431	1.9495
548.	68.982	5.5482	0.	46047.	-1.3375	1.9495
549.	69.020	5.5111	0.	46116.	-1.3320	1.9495

T, °R	C_p^*	$C_{p,1}(T) \times 10^4$	$C_{p,2}$	H*	$H_1(T) \times 10^1$	$H_2(T) \times 10^7$
550.	69.059	5.4743	0.	46185.	-1.3265	1.9495
551.	69.097	5.4378	0.	46255.	-1.3210	1.9495
552.	69.134	5.4016	0.	46324.	-1.3156	1.9495
553.	69.172	5.3658	0.	46393.	-1.3102	1.9495
554.	69.209	5.3302	0.	46462.	-1.3049	1.9495
555.	69.247	5.2950	0.	46531.	-1.2995	1.9495
556.	69.284	5.2601	0.	46601.	-1.2943	1.9495
557.	69.321	5.2254	0.	46670.	-1.2890	1.9495
558.	69.357	5.1911	0.	46739.	-1.2838	1.9495
559.	69.394	5.1571	0.	46809.	-1.2786	1.9495
560.	69.430	5.1233	0.	46878.	-1.2735	1.9495
561.	69.467	5.0899	0.	46947.	-1.2684	1.9495
562.	69.503	5.0567	0.	47017.	-1.2633	1.9495
563.	69.539	5.0238	0.	47086.	-1.2583	1.9495
564.	69.575	4.9912	0.	47156.	-1.2533	1.9495
565.	69.610	4.9589	0.	47226.	-1.2483	1.9495
566.	69.646	4.9269	0.	47295.	-1.2434	1.9495
567.	69.681	4.8951	0.	47365.	-1.2384	1.9495
568.	69.717	4.8636	0.	47435.	-1.2336	1.9495
569.	69.752	4.8323	0.	47504.	-1.2287	1.9495
570.	69.787	4.8014	0.	47574.	-1.2239	1.9495
571.	69.822	4.7706	0.	47644.	-1.2191	1.9495
572.	69.856	4.7402	0.	47714.	-1.2144	1.9495
573.	69.891	4.7100	0.	47784.	-1.2096	1.9495
574.	69.925	4.6800	0.	47853.	-1.2049	1.9495
575.	69.959	4.6503	0.	47923.	-1.2003	1.9495
576.	69.993	4.6209	0.	47993.	-1.1956	1.9495
577.	70.027	4.5917	0.	48063.	-1.1910	1.9495
578.	70.061	4.5627	0.	48133.	-1.1864	1.9495
579.	70.095	4.5340	0.	48204.	-1.1819	1.9495
580.	70.128	4.5055	0.	48274.	-1.1774	1.9495
581.	70.162	4.4772	0.	48344.	-1.1729	1.9495
582.	70.195	4.4492	0.	48414.	-1.1684	1.9495
583.	70.228	4.4214	0.	48484.	-1.1640	1.9495
584.	70.261	4.3938	0.	48554.	-1.1596	1.9495
585.	70.294	4.3665	0.	48625.	-1.1552	1.9495
586.	70.327	4.3394	0.	48695.	-1.1508	1.9495
587.	70.359	4.3125	0.	48765.	-1.1465	1.9495
588.	70.392	4.2858	0.	48836.	-1.1422	1.9495
589.	70.424	4.2594	0.	48906.	-1.1380	1.9495
590.	70.457	4.2331	0.	48977.	-1.1337	1.9495
591.	70.489	4.2071	0.	49047.	-1.1295	1.9495
592.	70.521	4.1813	0.	49118.	-1.1253	1.9495
593.	70.552	4.1557	0.	49188.	-1.1211	1.9495
594.	70.584	4.1303	0.	49259.	-1.1170	1.9495
595.	70.616	4.1051	0.	49329.	-1.1129	1.9495
596.	70.647	4.0801	0.	49400.	-1.1088	1.9495
597.	70.679	4.0553	0.	49471.	-1.1047	1.9495
598.	70.710	4.0307	0.	49541.	-1.1007	1.9495
599.	70.741	4.0063	0.	49612.	-1.0966	1.9495

T, °R	C _p *	C _{p,1} (T)x10 ⁴	C _{p,2}	H*	H ₁ (T)x10 ¹	H ₂ (T)x10 ⁷
600.	70.772	3.9821	0.	49683.	-1.0926	1.9495
601.	70.803	3.9581	0.	49753.	-1.0887	1.9495
602.	70.834	3.9343	0.	49824.	-1.0847	1.9495
603.	70.864	3.9106	0.	49895.	-1.0808	1.9495
604.	70.895	3.8872	0.	49966.	-1.0769	1.9495
605.	70.925	3.8639	0.	50037.	-1.0730	1.9495
606.	70.956	3.8408	0.	50108.	-1.0692	1.9495
607.	70.986	3.8179	0.	50179.	-1.0653	1.9495
608.	71.016	3.7952	0.	50250.	-1.0615	1.9495
609.	71.046	3.7727	0.	50321.	-1.0578	1.9495
610.	71.076	3.7503	0.	50392.	-1.0540	1.9495
611.	71.105	3.7282	0.	50463.	-1.0503	1.9495
612.	71.135	3.7061	0.	50534.	-1.0465	1.9495
613.	71.165	3.6843	0.	50605.	-1.0428	1.9495
614.	71.194	3.6626	0.	50676.	-1.0392	1.9495
615.	71.223	3.6411	0.	50748.	-1.0355	1.9495
616.	71.252	3.6198	0.	50819.	-1.0319	1.9495
617.	71.282	3.5986	0.	50890.	-1.0283	1.9495
618.	71.311	3.5776	0.	50962.	-1.0247	1.9495
619.	71.339	3.5568	0.	51033.	-1.0211	1.9495
620.	71.368	3.5361	0.	51104.	-1.0176	1.9495
621.	71.397	3.5156	0.	51176.	-1.0141	1.9495
622.	71.425	3.4952	0.	51247.	-1.0105	1.9495
623.	71.454	3.4750	0.	51318.	-1.0071	1.9495
624.	71.482	3.4549	0.	51390.	-1.0036	1.9495
625.	71.511	3.4350	0.	51461.	-1.0001	1.9495
626.	71.539	3.4153	0.	51533.	-0.9967	1.9495
627.	71.567	3.3957	0.	51604.	-0.9933	1.9495
628.	71.595	3.3762	0.	51676.	-0.9899	1.9495
629.	71.623	3.3569	0.	51748.	-0.9866	1.9495
630.	71.650	3.3378	0.	51819.	-0.9832	1.9495
631.	71.678	3.3188	0.	51891.	-0.9799	1.9495
632.	71.706	3.2999	0.	51963.	-0.9766	1.9495
633.	71.733	3.2812	0.	52034.	-0.9733	1.9495
634.	71.760	3.2626	0.	52106.	-0.9700	1.9495
635.	71.788	3.2441	0.	52178.	-0.9668	1.9495
636.	71.815	3.2258	0.	52250.	-0.9635	1.9495
637.	71.842	3.2077	0.	52322.	-0.9603	1.9495
638.	71.869	3.1896	0.	52393.	-0.9571	1.9495
639.	71.896	3.1717	0.	52465.	-0.9539	1.9495
640.	71.923	3.1540	0.	52537.	-0.9508	1.9495
641.	71.949	3.1363	0.	52609.	-0.9476	1.9495
642.	71.976	3.1188	0.	52681.	-0.9445	1.9495
643.	72.003	3.1014	0.	52753.	-0.9414	1.9495
644.	72.029	3.0842	0.	52825.	-0.9383	1.9495
645.	72.055	3.0671	0.	52897.	-0.9352	1.9495
646.	72.082	3.0501	0.	52969.	-0.9322	1.9495
647.	72.108	3.0332	0.	53041.	-0.9291	1.9495
648.	72.134	3.0165	0.	53113.	-0.9261	1.9495
649.	72.160	2.9998	0.	53186.	-0.9231	1.9495

T, °R	C _P *	C _{P,1} (T)x10 ⁴	C _{P,2}	H*	H ₁ (T)x10 ¹	H ₂ (T)x10 ⁷
650.	72.166	2.9833	0.	53258.	-0.9201	1.9495
651.	72.212	2.9670	0.	53330.	-0.9171	1.9495
652.	72.238	2.9507	0.	53402.	-0.9142	1.9495
653.	72.263	2.9345	0.	53474.	-0.9112	1.9495
654.	72.289	2.9185	0.	53547.	-0.9083	1.9495
655.	72.314	2.9026	0.	53619.	-0.9054	1.9495
656.	72.340	2.8868	0.	53691.	-0.9025	1.9495
657.	72.365	2.8711	0.	53764.	-0.8996	1.9495
658.	72.390	2.8556	0.	53836.	-0.8967	1.9495
659.	72.416	2.8401	0.	53908.	-0.8939	1.9495
660.	72.441	2.8248	0.	53981.	-0.8911	1.9495
661.	72.466	2.8095	0.	54053.	-0.8882	1.9495
662.	72.491	2.7944	0.	54126.	-0.8854	1.9495
663.	72.515	2.7794	0.	54198.	-0.8827	1.9495
664.	72.540	2.7645	0.	54271.	-0.8799	1.9495
665.	72.565	2.7497	0.	54343.	-0.8771	1.9495
666.	72.590	2.7350	0.	54416.	-0.8744	1.9495
667.	72.614	2.7204	0.	54489.	-0.8717	1.9495
668.	72.639	2.7059	0.	54561.	-0.8689	1.9495
669.	72.663	2.6915	0.	54634.	-0.8662	1.9495
670.	72.687	2.6773	0.	54706.	-0.8636	1.9495
671.	72.711	2.6631	0.	54779.	-0.8609	1.9495
672.	72.736	2.6490	0.	54852.	-0.8582	1.9495
673.	72.760	2.6350	0.	54925.	-0.8556	1.9495
674.	72.784	2.6211	0.	54997.	-0.8530	1.9495
675.	72.808	2.6073	0.	55070.	-0.8503	1.9495
676.	72.831	2.5937	0.	55143.	-0.8477	1.9495
677.	72.855	2.5801	0.	55216.	-0.8452	1.9495
678.	72.879	2.5666	0.	55289.	-0.8426	1.9495
679.	72.903	2.5532	0.	55362.	-0.8400	1.9495
680.	72.926	2.5398	0.	55435.	-0.8375	1.9495
681.	72.950	2.5266	0.	55508.	-0.8349	1.9495
682.	72.975	2.5135	0.	55580.	-0.8324	1.9495
683.	72.996	2.5005	0.	55653.	-0.8299	1.9495
684.	73.020	2.4875	0.	55726.	-0.8274	1.9495
685.	73.043	2.4747	0.	55799.	-0.8249	1.9495
686.	73.066	2.4619	0.	55873.	-0.8225	1.9495
687.	73.089	2.4492	0.	55946.	-0.8200	1.9495
688.	73.112	2.4366	0.	56019.	-0.8176	1.9495
689.	73.135	2.4241	0.	56092.	-0.8151	1.9495
690.	73.156	2.4117	0.	56165.	-0.8127	1.9495
691.	73.181	2.3994	0.	56238.	-0.8103	1.9495
692.	73.203	2.3871	0.	56311.	-0.8079	1.9495
693.	73.226	2.3750	0.	56385.	-0.8055	1.9495
694.	73.249	2.3629	0.	56458.	-0.8032	1.9495
695.	73.271	2.3509	0.	56531.	-0.8008	1.9495
696.	73.294	2.3389	0.	56604.	-0.7985	1.9495
697.	73.316	2.3271	0.	56678.	-0.7961	1.9495
698.	73.338	2.3153	0.	56751.	-0.7938	1.9495
699.	73.361	2.3037	0.	56824.	-0.7915	1.9495

T, °R	C _p [*]	C _{p,1} (T)×10 ⁴	C _{p,2}	H*	H ₁ (T)×10 ¹	H ₂ (T)×10 ⁷
700.	73.383	2.2921	0.	56898.	-0.7692	1.9495
701.	73.405	2.2805	0.	56971.	-0.7869	1.9495
702.	73.427	2.2691	0.	57045.	-0.7847	1.9495
703.	73.449	2.2577	0.	57118.	-0.7824	1.9495
704.	73.471	2.2464	0.	57191.	-0.7801	1.9495
705.	73.493	2.2352	0.	57265.	-0.7779	1.9495
706.	73.515	2.2241	0.	57338.	-0.7757	1.9495
707.	73.537	2.2130	0.	57412.	-0.7734	1.9495
708.	73.558	2.2020	0.	57485.	-0.7712	1.9495
709.	73.580	2.1911	0.	57559.	-0.7690	1.9495
710.	73.601	2.1803	0.	57633.	-0.7669	1.9495
711.	73.623	2.1695	0.	57706.	-0.7647	1.9495
712.	73.644	2.1588	0.	57780.	-0.7625	1.9495
713.	73.666	2.1481	0.	57854.	-0.7604	1.9495
714.	73.687	2.1376	0.	57927.	-0.7582	1.9495
715.	73.708	2.1271	0.	58001.	-0.7561	1.9495
716.	73.730	2.1167	0.	58075.	-0.7540	1.9495
717.	73.751	2.1063	0.	58148.	-0.7519	1.9495
718.	73.772	2.0960	0.	58222.	-0.7498	1.9495
719.	73.793	2.0858	0.	58296.	-0.7477	1.9495
720.	73.814	2.0757	0.	58370.	-0.7456	1.9495
721.	73.835	2.0656	0.	58444.	-0.7435	1.9495
722.	73.856	2.0555	0.	58517.	-0.7415	1.9495
723.	73.877	2.0456	0.	58591.	-0.7394	1.9495
724.	73.897	2.0357	0.	58665.	-0.7374	1.9495
725.	73.918	2.0259	0.	58739.	-0.7353	1.9495
726.	73.939	2.0161	0.	58813.	-0.7333	1.9495
727.	73.959	2.0064	0.	58887.	-0.7313	1.9495
728.	73.980	1.9968	0.	58961.	-0.7293	1.9495
729.	74.000	1.9872	0.	59035.	-0.7273	1.9495
730.	74.021	1.9777	0.	59109.	-0.7253	1.9495
731.	74.041	1.9682	0.	59183.	-0.7233	1.9495
732.	74.062	1.9588	0.	59257.	-0.7214	1.9495
733.	74.082	1.9495	0.	59331.	-0.7194	1.9495
734.	74.102	1.9402	0.	59405.	-0.7175	1.9495
735.	74.122	1.9310	0.	59479.	-0.7156	1.9495
736.	74.142	1.9219	0.	59553.	-0.7136	1.9495
737.	74.162	1.9128	0.	59628.	-0.7117	1.9495
738.	74.182	1.9037	0.	59702.	-0.7098	1.9495
739.	74.202	1.8948	0.	59776.	-0.7079	1.9495
740.	74.222	1.8858	0.	59850.	-0.7060	1.9495
741.	74.242	1.8770	0.	59924.	-0.7041	1.9495
742.	74.262	1.8682	0.	59999.	-0.7023	1.9495
743.	74.282	1.8594	0.	60073.	-0.7004	1.9495
744.	74.301	1.8507	0.	60147.	-0.6985	1.9495
745.	74.321	1.8421	0.	60221.	-0.6967	1.9495
746.	74.341	1.8335	0.	60296.	-0.6949	1.9495
747.	74.360	1.8249	0.	60370.	-0.6930	1.9495
748.	74.380	1.8165	0.	60445.	-0.6912	1.9495
749.	74.399	1.8080	0.	60519.	-0.6894	1.9495

T, °R	C _p [*]	C _{p,1} (T)×10 ⁴	C _{p,2}	H [*]	H ₁ (T)×10 ¹	H ₂ (T)×10 ⁷
750.	74.419	1.7997	0.	60593.	-0.6876	1.9495
751.	74.438	1.7913	0.	60668.	-0.6858	1.9495
752.	74.457	1.7331	0.	60742.	-0.6840	1.9495
753.	74.477	1.7748	0.	60817.	-0.6822	1.9495
754.	74.496	1.7667	0.	60891.	-0.6805	1.9495
755.	74.515	1.7586	0.	60966.	-0.6787	1.9495
756.	74.534	1.7505	0.	61040.	-0.6769	1.9495
757.	74.553	1.7425	0.	61115.	-0.6752	1.9495
758.	74.572	1.7345	0.	61189.	-0.6735	1.9495
759.	74.591	1.7266	0.	61264.	-0.6717	1.9495
760.	74.610	1.7187	0.	61338.	-0.6700	1.9495
761.	74.629	1.7109	0.	61413.	-0.6683	1.9495
762.	74.648	1.7031	0.	61488.	-0.6666	1.9495
763.	74.667	1.6954	0.	61562.	-0.6649	1.9495
764.	74.685	1.6877	0.	61637.	-0.6632	1.9495
765.	74.704	1.6801	0.	61712.	-0.6615	1.9495
766.	74.723	1.6725	0.	61786.	-0.6598	1.9495
767.	74.741	1.6650	0.	61861.	-0.6582	1.9495
768.	74.760	1.6575	0.	61936.	-0.6565	1.9495
769.	74.778	1.6500	0.	62011.	-0.6548	1.9495
770.	74.797	1.6426	0.	62086.	-0.6532	1.9495
771.	74.815	1.6353	0.	62160.	-0.6516	1.9495
772.	74.834	1.6280	0.	62235.	-0.6499	1.9495
773.	74.852	1.6207	0.	62310.	-0.6483	1.9495
774.	74.870	1.6135	0.	62385.	-0.6467	1.9495
775.	74.889	1.6063	0.	62460.	-0.6451	1.9495
776.	74.907	1.5991	0.	62535.	-0.6435	1.9495
777.	74.925	1.5921	0.	62610.	-0.6419	1.9495
778.	74.943	1.5850	0.	62684.	-0.6403	1.9495
779.	74.961	1.5780	0.	62759.	-0.6387	1.9495
780.	74.979	1.5710	0.	62834.	-0.6371	1.9495
781.	74.997	1.5641	0.	62909.	-0.6356	1.9495
782.	75.015	1.5572	0.	62984.	-0.6340	1.9495
783.	75.033	1.5504	0.	63059.	-0.6324	1.9495
784.	75.051	1.5436	0.	63134.	-0.6309	1.9495
785.	75.069	1.5368	0.	63210.	-0.6294	1.9495
786.	75.087	1.5301	0.	63285.	-0.6278	1.9495
787.	75.105	1.5234	0.	63360.	-0.6263	1.9495
788.	75.122	1.5168	0.	63435.	-0.6248	1.9495
789.	75.140	1.5102	0.	63510.	-0.6233	1.9495
790.	75.158	1.5036	0.	63585.	-0.6218	1.9495
791.	75.175	1.4971	0.	63660.	-0.6203	1.9495
792.	75.193	1.4906	0.	63735.	-0.6188	1.9495
793.	75.210	1.4841	0.	63811.	-0.6173	1.9495
794.	75.228	1.4777	0.	63886.	-0.6158	1.9495
795.	75.245	1.4714	0.	63961.	-0.6143	1.9495
796.	75.263	1.4650	0.	64036.	-0.6129	1.9495
797.	75.280	1.4587	0.	64112.	-0.6114	1.9495
798.	75.298	1.4525	0.	64187.	-0.6099	1.9495
799.	75.315	1.4462	0.	64262.	-0.6085	1.9495

T, °R	C _p *	C _{p,1} (T)x10 ⁴	C _{p,2}	H*	H ₁ (T)x10 ¹	H ₂ (T)x10 ⁷
800.	75.332	1.4400	0.	64338.	-0.6070	1.9495
801.	75.349	1.4339	0.	64413.	-0.6056	1.9495
802.	75.367	1.4278	0.	64488.	-0.6042	1.9495
803.	75.384	1.4217	0.	64564.	-0.6028	1.9495
804.	75.401	1.4156	0.	64639.	-0.6013	1.9495
805.	75.418	1.4096	0.	64714.	-0.5999	1.9495
806.	75.435	1.4037	0.	64790.	-0.5985	1.9495
807.	75.452	1.3977	0.	64865.	-0.5971	1.9495
808.	75.469	1.3918	0.	64941.	-0.5957	1.9495
809.	75.486	1.3859	0.	65016.	-0.5943	1.9495
810.	75.503	1.3801	0.	65092.	-0.5929	1.9495
811.	75.520	1.3743	0.	65167.	-0.5916	1.9495
812.	75.537	1.3685	0.	65243.	-0.5902	1.9495
813.	75.553	1.3628	0.	65318.	-0.5888	1.9495
814.	75.570	1.3571	0.	65394.	-0.5875	1.9495
815.	75.587	1.3514	0.	65469.	-0.5861	1.9495
816.	75.603	1.3457	0.	65545.	-0.5848	1.9495
817.	75.620	1.3401	0.	65621.	-0.5834	1.9495
818.	75.637	1.3346	0.	65696.	-0.5821	1.9495
819.	75.653	1.3290	0.	65772.	-0.5808	1.9495
820.	75.670	1.3235	0.	65848.	-0.5794	1.9495
821.	75.686	1.3180	0.	65923.	-0.5781	1.9495
822.	75.703	1.3125	0.	65999.	-0.5768	1.9495
823.	75.719	1.3071	0.	66075.	-0.5755	1.9495
824.	75.736	1.3017	0.	66150.	-0.5742	1.9495
825.	75.752	1.2964	0.	66226.	-0.5729	1.9495
826.	75.769	1.2910	0.	66302.	-0.5716	1.9495
827.	75.785	1.2857	0.	66378.	-0.5703	1.9495
828.	75.801	1.2805	0.	66453.	-0.5690	1.9495
829.	75.817	1.2752	0.	66529.	-0.5677	1.9495
830.	75.834	1.2700	0.	66605.	-0.5665	1.9495
831.	75.850	1.2648	0.	66681.	-0.5652	1.9495
832.	75.866	1.2597	0.	66757.	-0.5639	1.9495
833.	75.882	1.2545	0.	66833.	-0.5627	1.9495
834.	75.898	1.2494	0.	66909.	-0.5614	1.9495
835.	75.914	1.2444	0.	66984.	-0.5602	1.9495
836.	75.930	1.2393	0.	67060.	-0.5589	1.9495
837.	75.946	1.2343	0.	67136.	-0.5577	1.9495
838.	75.962	1.2293	0.	67212.	-0.5565	1.9495
839.	75.978	1.2244	0.	67288.	-0.5552	1.9495
840.	75.994	1.2194	0.	67364.	-0.5540	1.9495
841.	76.010	1.2145	0.	67440.	-0.5528	1.9495
842.	76.026	1.2097	0.	67516.	-0.5516	1.9495
843.	76.042	1.2048	0.	67592.	-0.5504	1.9495
844.	76.057	1.2000	0.	67668.	-0.5492	1.9495
845.	76.073	1.1952	0.	67744.	-0.5480	1.9495
846.	76.089	1.1904	0.	67820.	-0.5468	1.9495
847.	76.105	1.1857	0.	67897.	-0.5456	1.9495
848.	76.120	1.1809	0.	67973.	-0.5444	1.9495
849.	76.136	1.1763	0.	68049.	-0.5432	1.9495

$T, ^\circ R$	C_p^*	$C_{p,1}(T) \times 10^4$	$C_{p,2}$	H^*	$H_1(T) \times 10^1$	$H_2(T) \times 10^7$
850.	76.151	1.1716	0.	68125.	-0.5421	1.9495
851.	76.167	1.1669	0.	68201.	-0.5409	1.9495
852.	76.183	1.1623	0.	68277.	-0.5397	1.9495
853.	76.198	1.1577	0.	68353.	-0.5386	1.9495
854.	76.214	1.1532	0.	68430.	-0.5374	1.9495
855.	76.229	1.1486	0.	68506.	-0.5363	1.9495
856.	76.244	1.1441	0.	68582.	-0.5351	1.9495
857.	76.260	1.1396	0.	68658.	-0.5340	1.9495
858.	76.275	1.1351	0.	68735.	-0.5328	1.9495
859.	76.291	1.1307	0.	68811.	-0.5317	1.9495
860.	76.306	1.1263	0.	68887.	-0.5306	1.9495
861.	76.321	1.1219	0.	68964.	-0.5295	1.9495
862.	76.336	1.1175	0.	69040.	-0.5283	1.9495
863.	76.352	1.1131	0.	69116.	-0.5272	1.9495
864.	76.367	1.1088	0.	69193.	-0.5261	1.9495
865.	76.382	1.1045	0.	69269.	-0.5250	1.9495
866.	76.397	1.1002	0.	69345.	-0.5239	1.9495
867.	76.412	1.0960	0.	69422.	-0.5228	1.9495
868.	76.427	1.0917	0.	69498.	-0.5217	1.9495
869.	76.442	1.0875	0.	69575.	-0.5206	1.9495
870.	76.457	1.0833	0.	69651.	-0.5195	1.9495
871.	76.473	1.0792	0.	69728.	-0.5184	1.9495
872.	76.487	1.0750	0.	69804.	-0.5174	1.9495
873.	76.502	1.0709	0.	69881.	-0.5163	1.9495
874.	76.517	1.0668	0.	69957.	-0.5152	1.9495
875.	76.532	1.0627	0.	70034.	-0.5142	1.9495
876.	76.547	1.0586	0.	70110.	-0.5131	1.9495
877.	76.562	1.0546	0.	70187.	-0.5120	1.9495
878.	76.577	1.0506	0.	70263.	-0.5110	1.9495
879.	76.592	1.0466	0.	70340.	-0.5099	1.9495
880.	76.606	1.0426	0.	70416.	-0.5089	1.9495
881.	76.621	1.0387	0.	70493.	-0.5079	1.9495
882.	76.636	1.0347	0.	70570.	-0.5068	1.9495
883.	76.651	1.0308	0.	70646.	-0.5058	1.9495
884.	76.665	1.0269	0.	70723.	-0.5048	1.9495
885.	76.680	1.0230	0.	70800.	-0.5037	1.9495
886.	76.695	1.0192	0.	70876.	-0.5027	1.9495
887.	76.709	1.0153	0.	70953.	-0.5017	1.9495
888.	76.724	1.0115	0.	71030.	-0.5007	1.9495
889.	76.738	1.0077	0.	71106.	-0.4997	1.9495
890.	76.753	1.0040	0.	71183.	-0.4987	1.9495
891.	76.767	1.0002	0.	71260.	-0.4977	1.9495
892.	76.782	0.9965	0.	71337.	-0.4967	1.9495
893.	76.796	0.9928	0.	71414.	-0.4957	1.9495
894.	76.811	0.9891	0.	71490.	-0.4947	1.9495
895.	76.825	0.9854	0.	71567.	-0.4937	1.9495
896.	76.839	0.9817	0.	71644.	-0.4927	1.9495
897.	76.854	0.9781	0.	71721.	-0.4917	1.9495
898.	76.868	0.9745	0.	71798.	-0.4908	1.9495
899.	76.882	0.9709	0.	71875.	-0.4898	1.9495

T, °R	C _p [*]	C _{p,1} (T)×10 ⁴	C _{p,2}	H [*]	H ₁ (T)×10 ¹	H ₂ (T)×10 ⁷
900.	76.897	0.9673	0.	71951.	-0.4888	1.9495
901.	76.911	0.9637	0.	72028.	-0.4879	1.9495
902.	76.925	0.9602	0.	72105.	-0.4869	1.9495
903.	76.940	0.9566	0.	72182.	-0.4859	1.9495
904.	76.954	0.9531	0.	72259.	-0.4850	1.9495
905.	76.968	0.9496	0.	72336.	-0.4840	1.9495
906.	76.982	0.9461	0.	72413.	-0.4831	1.9495
907.	76.996	0.9427	0.	72490.	-0.4821	1.9495
908.	77.010	0.9392	0.	72567.	-0.4812	1.9495
909.	77.024	0.9358	0.	72644.	-0.4803	1.9495
910.	77.038	0.9324	0.	72721.	-0.4793	1.9495
911.	77.052	0.9290	0.	72798.	-0.4784	1.9495
912.	77.066	0.9256	0.	72875.	-0.4775	1.9495
913.	77.080	0.9223	0.	72952.	-0.4765	1.9495
914.	77.094	0.9189	0.	73029.	-0.4756	1.9495
915.	77.108	0.9156	0.	73106.	-0.4747	1.9495
916.	77.122	0.9123	0.	73184.	-0.4738	1.9495
917.	77.136	0.9090	0.	73261.	-0.4729	1.9495
918.	77.150	0.9057	0.	73338.	-0.4720	1.9495
919.	77.164	0.9025	0.	73415.	-0.4711	1.9495
920.	77.178	0.8992	0.	73492.	-0.4702	1.9495
921.	77.192	0.8960	0.	73569.	-0.4693	1.9495
922.	77.205	0.8928	0.	73647.	-0.4684	1.9495
923.	77.219	0.8896	0.	73724.	-0.4675	1.9495
924.	77.233	0.8864	0.	73801.	-0.4666	1.9495
925.	77.247	0.8833	0.	73878.	-0.4657	1.9495
926.	77.260	0.8801	0.	73956.	-0.4648	1.9495
927.	77.274	0.8770	0.	74033.	-0.4639	1.9495
928.	77.288	0.8739	0.	74110.	-0.4631	1.9495
929.	77.301	0.8708	0.	74187.	-0.4622	1.9495
930.	77.315	0.8677	0.	74265.	-0.4613	1.9495
931.	77.329	0.8646	0.	74342.	-0.4605	1.9495
932.	77.342	0.8616	0.	74419.	-0.4596	1.9495
933.	77.356	0.8585	0.	74497.	-0.4587	1.9495
934.	77.369	0.8555	0.	74574.	-0.4579	1.9495
935.	77.383	0.8525	0.	74651.	-0.4570	1.9495
936.	77.396	0.8495	0.	74729.	-0.4562	1.9495
937.	77.410	0.8465	0.	74806.	-0.4553	1.9495
938.	77.423	0.8436	0.	74884.	-0.4545	1.9495
939.	77.437	0.8406	0.	74961.	-0.4536	1.9495
940.	77.450	0.8377	0.	75039.	-0.4528	1.9495
941.	77.464	0.8348	0.	75116.	-0.4520	1.9495
942.	77.477	0.8318	0.	75193.	-0.4511	1.9495
943.	77.490	0.8290	0.	75271.	-0.4503	1.9495
944.	77.504	0.8261	0.	75348.	-0.4495	1.9495
945.	77.517	0.8232	0.	75426.	-0.4487	1.9495
946.	77.530	0.8203	0.	75503.	-0.4478	1.9495
947.	77.544	0.8175	0.	75581.	-0.4470	1.9495
948.	77.557	0.8147	0.	75659.	-0.4462	1.9495
949.	77.570	0.8119	0.	75736.	-0.4454	1.9495

T, °R	C _p *	C _{p,1} (T)x10 ⁴	C _{p,2}	H*	H ₁ (T)x10 ¹	H ₂ (T)x10 ⁷
950.	77.583	0.8091	0.	75814.	-0.4446	1.9495
951.	77.597	0.8063	0.	75891.	-0.4438	1.9495
952.	77.610	0.8035	0.	75969.	-0.4430	1.9495
953.	77.623	0.8008	0.	76046.	-0.4422	1.9495
954.	77.636	0.7980	0.	76124.	-0.4414	1.9495
955.	77.649	0.7953	0.	76202.	-0.4406	1.9495
956.	77.662	0.7926	0.	76279.	-0.4398	1.9495
957.	77.675	0.7899	0.	76357.	-0.4390	1.9495
958.	77.689	0.7872	0.	76435.	-0.4382	1.9495
959.	77.702	0.7845	0.	76512.	-0.4374	1.9495
960.	77.715	0.7818	0.	76590.	-0.4366	1.9495
961.	77.728	0.7792	0.	76668.	-0.4358	1.9495
962.	77.741	0.7765	0.	76746.	-0.4351	1.9495
963.	77.754	0.7739	0.	76823.	-0.4343	1.9495
964.	77.767	0.7713	0.	76901.	-0.4335	1.9495
965.	77.780	0.7687	0.	76979.	-0.4327	1.9495
966.	77.793	0.7661	0.	77057.	-0.4320	1.9495
967.	77.806	0.7635	0.	77134.	-0.4312	1.9495
968.	77.818	0.7609	0.	77212.	-0.4304	1.9495
969.	77.831	0.7584	0.	77290.	-0.4297	1.9495
970.	77.844	0.7558	0.	77368.	-0.4289	1.9495
971.	77.857	0.7533	0.	77446.	-0.4282	1.9495
972.	77.870	0.7508	0.	77524.	-0.4274	1.9495
973.	77.883	0.7482	0.	77602.	-0.4267	1.9495
974.	77.896	0.7457	0.	77679.	-0.4259	1.9495
975.	77.908	0.7433	0.	77757.	-0.4252	1.9495
976.	77.921	0.7408	0.	77835.	-0.4244	1.9495
977.	77.934	0.7383	0.	77913.	-0.4237	1.9495
978.	77.947	0.7359	0.	77991.	-0.4230	1.9495
979.	77.959	0.7334	0.	78069.	-0.4222	1.9495
980.	77.972	0.7310	0.	78147.	-0.4215	1.9495
981.	77.985	0.7286	0.	78225.	-0.4208	1.9495
982.	77.997	0.7262	0.	78303.	-0.4200	1.9495
983.	78.010	0.7238	0.	78381.	-0.4193	1.9495
984.	78.023	0.7214	0.	78459.	-0.4186	1.9495
985.	78.035	0.7190	0.	78537.	-0.4179	1.9495
986.	78.048	0.7167	0.	78615.	-0.4172	1.9495
987.	78.060	0.7143	0.	78693.	-0.4164	1.9495
988.	78.073	0.7120	0.	78771.	-0.4157	1.9495
989.	78.086	0.7096	0.	78849.	-0.4150	1.9495
990.	78.098	0.7073	0.	78927.	-0.4143	1.9495
991.	78.111	0.7050	0.	79005.	-0.4136	1.9495
992.	78.123	0.7027	0.	79084.	-0.4129	1.9495
993.	78.136	0.7004	0.	79162.	-0.4122	1.9495
994.	78.148	0.6981	0.	79240.	-0.4115	1.9495
995.	78.161	0.6959	0.	79318.	-0.4108	1.9495
996.	78.173	0.6936	0.	79396.	-0.4101	1.9495
997.	78.185	0.6914	0.	79474.	-0.4094	1.9495
998.	78.198	0.6891	0.	79553.	-0.4087	1.9495
999.	78.210	0.6869	0.	79631.	-0.4080	1.9495

TABLE III

T, °R	s*	$s_1(T) \times 10^5$	$s_2(T)$	γ^*	$\gamma_1 \times 10^6$	$\gamma_2 \times 10^{10}$
500.	106.11	-5.0403	0.	1.0702	6.6961	1.6806
501.	106.14	-5.0050	0.	1.0701	6.6447	1.6579
502.	106.17	-4.9699	0.	1.0701	6.5938	1.6356
503.	106.20	-4.9353	0.	1.0700	6.5434	1.6136
504.	106.23	-4.9009	0.	1.0700	6.4936	1.5920
505.	106.26	-4.8668	0.	1.0699	6.4442	1.5708
506.	106.29	-4.8331	0.	1.0699	6.3954	1.5500
507.	106.32	-4.7997	0.	1.0698	6.3471	1.5295
508.	106.36	-4.7666	0.	1.0698	6.2993	1.5093
509.	106.39	-4.7338	0.	1.0697	6.2519	1.4894
510.	106.42	-4.7013	0.	1.0697	6.2050	1.4699
511.	106.45	-4.6691	0.	1.0696	6.1587	1.4507
512.	106.48	-4.6372	0.	1.0696	6.1127	1.4318
513.	106.51	-4.6056	0.	1.0695	6.0673	1.4132
514.	106.54	-4.5743	0.	1.0695	6.0223	1.3950
515.	106.57	-4.5432	0.	1.0694	5.9777	1.3770
516.	106.60	-4.5125	0.	1.0694	5.9336	1.3593
517.	106.63	-4.4820	0.	1.0693	5.8900	1.3419
518.	106.66	-4.4518	0.	1.0693	5.8467	1.3248
519.	106.68	-4.4219	0.	1.0692	5.8040	1.3079
520.	106.71	-4.3922	0.	1.0692	5.7616	1.2913
521.	106.74	-4.3628	0.	1.0691	5.7196	1.2750
522.	106.77	-4.3337	0.	1.0691	5.6781	1.2590
523.	106.80	-4.3049	0.	1.0690	5.6370	1.2432
524.	106.83	-4.2763	0.	1.0690	5.5962	1.2276
525.	106.86	-4.2479	0.	1.0689	5.5559	1.2123
526.	106.89	-4.2198	0.	1.0689	5.5160	1.1972
527.	106.92	-4.1920	0.	1.0688	5.4764	1.1824
528.	106.95	-4.1644	0.	1.0688	5.4373	1.1678
529.	106.98	-4.1371	0.	1.0687	5.3985	1.1534
530.	107.01	-4.1100	0.	1.0687	5.3601	1.1393
531.	107.04	-4.0831	0.	1.0687	5.3221	1.1254
532.	107.07	-4.0565	0.	1.0686	5.2844	1.1117
533.	107.10	-4.0301	0.	1.0686	5.2471	1.0982
534.	107.13	-4.0039	0.	1.0685	5.2101	1.0849
535.	107.16	-3.9780	0.	1.0685	5.1735	1.0718
536.	107.19	-3.9523	0.	1.0684	5.1373	1.0589
537.	107.21	-3.9268	0.	1.0684	5.1014	1.0463
538.	107.24	-3.9015	0.	1.0684	5.0658	1.0338
539.	107.27	-3.8765	0.	1.0683	5.0306	1.0215
540.	107.30	-3.8516	0.	1.0683	4.9957	1.0094
541.	107.33	-3.8270	0.	1.0682	4.9611	0.9974
542.	107.36	-3.8026	0.	1.0682	4.9269	0.9857
543.	107.39	-3.7784	0.	1.0681	4.8930	0.9741
544.	107.42	-3.7545	0.	1.0681	4.8594	0.9627
545.	107.45	-3.7307	0.	1.0681	4.8261	0.9515
546.	107.47	-3.7071	0.	1.0680	4.7931	0.9405
547.	107.50	-3.6837	0.	1.0680	4.7605	0.9296
548.	107.53	-3.6606	0.	1.0679	4.7281	0.9189
549.	107.56	-3.6376	0.	1.0679	4.6960	0.9083

$T, ^\circ R$	s^*	$s_1(T) \times 10^5$	$s_2(T)$	γ^*	$\gamma_1 \times 10^6$	$\gamma_2 \times 10^{10}$
550.	107.59	-3.6148	0.	1.0679	4.6643	0.8979
551.	107.62	-3.5922	0.	1.0678	4.6328	0.8876
552.	107.65	-3.5698	0.	1.0678	4.6016	0.8775
553.	107.68	-3.5476	0.	1.0677	4.5707	0.8676
554.	107.70	-3.5256	0.	1.0677	4.5401	0.8578
555.	107.73	-3.5038	0.	1.0677	4.5097	0.8481
556.	107.76	-3.4821	0.	1.0676	4.4797	0.8386
557.	107.79	-3.4607	0.	1.0676	4.4499	0.8292
558.	107.82	-3.4394	0.	1.0675	4.4203	0.8200
559.	107.85	-3.4183	0.	1.0675	4.3911	0.8109
560.	107.87	-3.3973	0.	1.0675	4.3621	0.8019
561.	107.90	-3.3766	0.	1.0674	4.3334	0.7930
562.	107.93	-3.3560	0.	1.0674	4.3049	0.7843
563.	107.96	-3.3356	0.	1.0674	4.2767	0.7757
564.	107.99	-3.3153	0.	1.0673	4.2487	0.7673
565.	108.01	-3.2952	0.	1.0673	4.2210	0.7589
566.	108.04	-3.2753	0.	1.0672	4.1935	0.7507
567.	108.07	-3.2556	0.	1.0672	4.1663	0.7426
568.	108.10	-3.2360	0.	1.0672	4.1393	0.7346
569.	108.13	-3.2165	0.	1.0671	4.1126	0.7267
570.	108.15	-3.1973	0.	1.0671	4.0861	0.7189
571.	108.18	-3.1781	0.	1.0671	4.0598	0.7113
572.	108.21	-3.1592	0.	1.0670	4.0337	0.7037
573.	108.24	-3.1404	0.	1.0670	4.0079	0.6963
574.	108.27	-3.1217	0.	1.0670	3.9823	0.6889
575.	108.29	-3.1032	0.	1.0669	3.9569	0.6817
576.	108.32	-3.0849	0.	1.0669	3.9318	0.6745
577.	108.35	-3.0666	0.	1.0669	3.9069	0.6675
578.	108.38	-3.0486	0.	1.0668	3.8821	0.6605
579.	108.40	-3.0307	0.	1.0668	3.8576	0.6537
580.	108.43	-3.0129	0.	1.0668	3.8334	0.6470
581.	108.46	-2.9953	0.	1.0667	3.8093	0.6403
582.	108.49	-2.9778	0.	1.0667	3.7854	0.6337
583.	108.51	-2.9604	0.	1.0667	3.7617	0.6273
584.	108.54	-2.9432	0.	1.0666	3.7383	0.6209
585.	108.57	-2.9261	0.	1.0666	3.7150	0.6146
586.	108.60	-2.9092	0.	1.0666	3.6919	0.6084
587.	108.62	-2.8924	0.	1.0665	3.6691	0.6022
588.	108.65	-2.8757	0.	1.0665	3.6464	0.5962
589.	108.68	-2.8592	0.	1.0665	3.6239	0.5902
590.	108.71	-2.8427	0.	1.0664	3.6016	0.5843
591.	108.73	-2.8265	0.	1.0664	3.5795	0.5785
592.	108.76	-2.8103	0.	1.0664	3.5576	0.5728
593.	108.79	-2.7943	0.	1.0663	3.5358	0.5671
594.	108.81	-2.7784	0.	1.0663	3.5143	0.5616
595.	108.84	-2.7626	0.	1.0663	3.4929	0.5561
596.	108.87	-2.7469	0.	1.0662	3.4717	0.5506
597.	108.90	-2.7314	0.	1.0662	3.4507	0.5453
598.	108.92	-2.7160	0.	1.0662	3.4298	0.5400
599.	108.95	-2.7007	0.	1.0661	3.4091	0.5348

T, °R	s*	s ₁ (T)x10 ⁵	s ₂ (T)	γ*	γ ₁ x 10 ⁶	γ ₂ x 10 ¹⁰
600.	108.98	-2.6855	0.	1.0661	3.3886	0.5297
601.	109.00	-2.6704	0.	1.0661	3.3683	0.5246
602.	109.03	-2.6555	0.	1.0660	3.3481	0.5196
603.	109.06	-2.6406	0.	1.0660	3.3281	0.5146
604.	109.08	-2.6259	0.	1.0660	3.3083	0.5097
605.	109.11	-2.6113	0.	1.0660	3.2886	0.5049
606.	109.14	-2.5968	0.	1.0659	3.2691	0.5002
607.	109.16	-2.5824	0.	1.0659	3.2497	0.4955
608.	109.19	-2.5681	0.	1.0659	3.2305	0.4909
609.	109.22	-2.5540	0.	1.0658	3.2115	0.4863
610.	109.24	-2.5399	0.	1.0658	3.1926	0.4818
611.	109.27	-2.5259	0.	1.0658	3.1739	0.4773
612.	109.30	-2.5121	0.	1.0657	3.1553	0.4729
613.	109.32	-2.4983	0.	1.0657	3.1368	0.4686
614.	109.35	-2.4847	0.	1.0657	3.1185	0.4643
615.	109.38	-2.4711	0.	1.0657	3.1004	0.4601
616.	109.40	-2.4577	0.	1.0656	3.0824	0.4559
617.	109.43	-2.4444	0.	1.0656	3.0646	0.4518
618.	109.45	-2.4311	0.	1.0656	3.0468	0.4477
619.	109.48	-2.4180	0.	1.0655	3.0293	0.4437
620.	109.51	-2.4049	0.	1.0655	3.0118	0.4397
621.	109.53	-2.3920	0.	1.0655	2.9945	0.4358
622.	109.56	-2.3791	0.	1.0655	2.9774	0.4319
623.	109.59	-2.3664	0.	1.0654	2.9604	0.4281
624.	109.61	-2.3537	0.	1.0654	2.9435	0.4243
625.	109.64	-2.3411	0.	1.0654	2.9267	0.4206
626.	109.66	-2.3287	0.	1.0654	2.9101	0.4169
627.	109.69	-2.3163	0.	1.0653	2.8936	0.4133
628.	109.72	-2.3040	0.	1.0653	2.8772	0.4097
629.	109.74	-2.2918	0.	1.0653	2.8610	0.4061
630.	109.77	-2.2797	0.	1.0652	2.8449	0.4026
631.	109.79	-2.2676	0.	1.0652	2.8289	0.3992
632.	109.82	-2.2557	0.	1.0652	2.8130	0.3958
633.	109.85	-2.2438	0.	1.0652	2.7973	0.3924
634.	109.87	-2.2321	0.	1.0651	2.7817	0.3891
635.	109.90	-2.2204	0.	1.0651	2.7662	0.3858
636.	109.92	-2.2088	0.	1.0651	2.7508	0.3825
637.	109.95	-2.1973	0.	1.0651	2.7355	0.3793
638.	109.97	-2.1858	0.	1.0650	2.7204	0.3761
639.	110.00	-2.1745	0.	1.0650	2.7054	0.3730
640.	110.03	-2.1632	0.	1.0650	2.6905	0.3699
641.	110.05	-2.1520	0.	1.0650	2.6757	0.3668
642.	110.08	-2.1409	0.	1.0649	2.6610	0.3638
643.	110.10	-2.1299	0.	1.0649	2.6464	0.3608
644.	110.13	-2.1189	0.	1.0649	2.6319	0.3579
645.	110.15	-2.1080	0.	1.0649	2.6176	0.3549
646.	110.18	-2.0972	0.	1.0648	2.6033	0.3520
647.	110.20	-2.0865	0.	1.0648	2.5892	0.3492
648.	110.23	-2.0759	0.	1.0648	2.5751	0.3464
649.	110.25	-2.0653	0.	1.0648	2.5612	0.3436

T, °R	s*	$s_1(T) \times 10^5$	$s_2(T)$	γ^*	$\gamma_1 \times 10^6$	$\gamma_2 \times 10^{10}$
650.	110.28	-2.0548	0.	1.0647	2.5474	0.3409
651.	110.31	-2.0444	0.	1.0647	2.5336	0.3381
652.	110.33	-2.0340	0.	1.0647	2.5200	0.3354
653.	110.36	-2.0238	0.	1.0647	2.5065	0.3328
654.	110.38	-2.0136	0.	1.0646	2.4931	0.3302
655.	110.41	-2.0034	0.	1.0646	2.4798	0.3276
656.	110.43	-1.9934	0.	1.0646	2.4665	0.3250
657.	110.46	-1.9834	0.	1.0646	2.4534	0.3225
658.	110.48	-1.9734	0.	1.0645	2.4404	0.3200
659.	110.51	-1.9636	0.	1.0645	2.4274	0.3175
660.	110.53	-1.9538	0.	1.0645	2.4146	0.3151
661.	110.56	-1.9441	0.	1.0645	2.4019	0.3126
662.	110.58	-1.9344	0.	1.0644	2.3892	0.3102
663.	110.61	-1.9248	0.	1.0644	2.3767	0.3079
664.	110.63	-1.9153	0.	1.0644	2.3642	0.3055
665.	110.66	-1.9059	0.	1.0644	2.3518	0.3032
666.	110.68	-1.8965	0.	1.0643	2.3395	0.3010
667.	110.71	-1.8872	0.	1.0643	2.3273	0.2987
668.	110.73	-1.8779	0.	1.0643	2.3152	0.2965
669.	110.76	-1.8687	0.	1.0643	2.3032	0.2943
670.	110.78	-1.8596	0.	1.0643	2.2913	0.2921
671.	110.81	-1.8505	0.	1.0642	2.2794	0.2899
672.	110.83	-1.8415	0.	1.0642	2.2676	0.2878
673.	110.85	-1.8325	0.	1.0642	2.2560	0.2857
674.	110.88	-1.8236	0.	1.0642	2.2444	0.2836
675.	110.90	-1.8148	0.	1.0641	2.2328	0.2815
676.	110.93	-1.8060	0.	1.0641	2.2214	0.2795
677.	110.95	-1.7973	0.	1.0641	2.2101	0.2775
678.	110.98	-1.7887	0.	1.0641	2.1988	0.2755
679.	111.00	-1.7801	0.	1.0640	2.1876	0.2735
680.	111.03	-1.7715	0.	1.0640	2.1765	0.2715
681.	111.05	-1.7630	0.	1.0640	2.1654	0.2696
682.	111.07	-1.7546	0.	1.0640	2.1545	0.2677
683.	111.10	-1.7462	0.	1.0640	2.1436	0.2658
684.	111.12	-1.7379	0.	1.0639	2.1328	0.2639
685.	111.15	-1.7297	0.	1.0639	2.1221	0.2621
686.	111.17	-1.7215	0.	1.0639	2.1114	0.2603
687.	111.20	-1.7133	0.	1.0639	2.1008	0.2584
688.	111.22	-1.7052	0.	1.0639	2.0903	0.2567
689.	111.24	-1.6972	0.	1.0638	2.0799	0.2549
690.	111.27	-1.6892	0.	1.0638	2.0696	0.2531
691.	111.29	-1.6812	0.	1.0638	2.0593	0.2514
692.	111.32	-1.6733	0.	1.0638	2.0490	0.2497
693.	111.34	-1.6655	0.	1.0637	2.0389	0.2480
694.	111.37	-1.6577	0.	1.0637	2.0288	0.2463
695.	111.39	-1.6500	0.	1.0637	2.0188	0.2447
696.	111.41	-1.6423	0.	1.0637	2.0089	0.2430
697.	111.44	-1.6347	0.	1.0637	1.9990	0.2414
698.	111.46	-1.6271	0.	1.0636	1.9892	0.2398
699.	111.49	-1.6196	0.	1.0636	1.9795	0.2382

T, °R	s*	$s_1(T) \times 10^5$	$s_2(T)$	γ^*	$\gamma_1 \times 10^6$	$\gamma_2 \times 10^{10}$
700.	111.51	-1.6121	0.	1.0636	1.9698	0.2366
701.	111.53	-1.6046	0.	1.0636	1.9602	0.2351
702.	111.56	-1.5972	0.	1.0636	1.9507	0.2335
703.	111.58	-1.5899	0.	1.0635	1.9412	0.2320
704.	111.60	-1.5826	0.	1.0635	1.9318	0.2305
705.	111.63	-1.5754	0.	1.0635	1.9224	0.2290
706.	111.65	-1.5682	0.	1.0635	1.9131	0.2275
707.	111.68	-1.5610	0.	1.0635	1.9039	0.2261
708.	111.70	-1.5539	0.	1.0634	1.8948	0.2246
709.	111.72	-1.5468	0.	1.0634	1.8857	0.2232
710.	111.75	-1.5398	0.	1.0634	1.8766	0.2218
711.	111.77	-1.5328	0.	1.0634	1.8677	0.2204
712.	111.79	-1.5259	0.	1.0634	1.8587	0.2190
713.	111.82	-1.5190	0.	1.0633	1.8499	0.2176
714.	111.84	-1.5122	0.	1.0633	1.8411	0.2162
715.	111.86	-1.5054	0.	1.0633	1.8323	0.2149
716.	111.89	-1.4986	0.	1.0633	1.8237	0.2135
717.	111.91	-1.4919	0.	1.0633	1.8150	0.2122
718.	111.94	-1.4852	0.	1.0632	1.8065	0.2109
719.	111.96	-1.4786	0.	1.0632	1.7980	0.2096
720.	111.98	-1.4720	0.	1.0632	1.7895	0.2083
721.	112.01	-1.4655	0.	1.0632	1.7811	0.2071
722.	112.03	-1.4589	0.	1.0632	1.7728	0.2058
723.	112.05	-1.4525	0.	1.0632	1.7645	0.2046
724.	112.08	-1.4460	0.	1.0631	1.7562	0.2033
725.	112.10	-1.4397	0.	1.0631	1.7481	0.2021
726.	112.12	-1.4333	0.	1.0631	1.7399	0.2009
727.	112.14	-1.4270	0.	1.0631	1.7318	0.1997
728.	112.17	-1.4207	0.	1.0631	1.7238	0.1985
729.	112.19	-1.4145	0.	1.0630	1.7159	0.1974
730.	112.21	-1.4083	0.	1.0630	1.7079	0.1962
731.	112.24	-1.4022	0.	1.0630	1.7001	0.1951
732.	112.26	-1.3960	0.	1.0630	1.6922	0.1939
733.	112.28	-1.3900	0.	1.0630	1.6845	0.1928
734.	112.31	-1.3839	0.	1.0629	1.6768	0.1917
735.	112.33	-1.3779	0.	1.0629	1.6691	0.1906
736.	112.35	-1.3719	0.	1.0629	1.6615	0.1895
737.	112.38	-1.3660	0.	1.0629	1.6539	0.1884
738.	112.40	-1.3601	0.	1.0629	1.6464	0.1873
739.	112.42	-1.3543	0.	1.0629	1.6389	0.1863
740.	112.44	-1.3484	0.	1.0628	1.6315	0.1852
741.	112.47	-1.3426	0.	1.0628	1.6241	0.1842
742.	112.49	-1.3369	0.	1.0628	1.6168	0.1831
743.	112.51	-1.3312	0.	1.0628	1.6095	0.1821
744.	112.54	-1.3255	0.	1.0628	1.6022	0.1811
745.	112.56	-1.3198	0.	1.0628	1.5950	0.1801
746.	112.58	-1.3142	0.	1.0627	1.5879	0.1791
747.	112.60	-1.3086	0.	1.0627	1.5808	0.1781
748.	112.63	-1.3031	0.	1.0627	1.5737	0.1772
749.	112.65	-1.2976	0.	1.0627	1.5667	0.1762

T, °R	s*	$s_1(T) \times 10^5$	$s_2(T)$	γ^*	$\gamma_1 \times 10^6$	$\gamma_2 \times 10^{10}$
750.	112.67	-1.2921	0.	1.0627	1.5597	0.1752
751.	112.69	-1.2866	0.	1.0626	1.5528	0.1743
752.	112.72	-1.2812	0.	1.0626	1.5459	0.1733
753.	112.74	-1.2758	0.	1.0626	1.5391	0.1724
754.	112.76	-1.2705	0.	1.0626	1.5323	0.1715
755.	112.78	-1.2651	0.	1.0626	1.5255	0.1706
756.	112.81	-1.2598	0.	1.0626	1.5188	0.1697
757.	112.83	-1.2546	0.	1.0625	1.5121	0.1688
758.	112.85	-1.2494	0.	1.0625	1.5055	0.1679
759.	112.87	-1.2442	0.	1.0625	1.4989	0.1670
760.	112.90	-1.2390	0.	1.0625	1.4924	0.1661
761.	112.92	-1.2338	0.	1.0625	1.4858	0.1653
762.	112.94	-1.2287	0.	1.0625	1.4794	0.1644
763.	112.96	-1.2237	0.	1.0624	1.4729	0.1636
764.	112.99	-1.2186	0.	1.0624	1.4665	0.1627
765.	113.01	-1.2136	0.	1.0624	1.4602	0.1619
766.	113.03	-1.2086	0.	1.0624	1.4539	0.1611
767.	113.05	-1.2036	0.	1.0624	1.4476	0.1602
768.	113.07	-1.1987	0.	1.0624	1.4414	0.1594
769.	113.10	-1.1938	0.	1.0623	1.4352	0.1586
770.	113.12	-1.1889	0.	1.0623	1.4290	0.1578
771.	113.14	-1.1841	0.	1.0623	1.4229	0.1570
772.	113.16	-1.1793	0.	1.0623	1.4168	0.1563
773.	113.19	-1.1745	0.	1.0623	1.4107	0.1555
774.	113.21	-1.1697	0.	1.0623	1.4047	0.1547
775.	113.23	-1.1650	0.	1.0622	1.3987	0.1540
776.	113.25	-1.1603	0.	1.0622	1.3928	0.1532
777.	113.27	-1.1556	0.	1.0622	1.3869	0.1524
778.	113.30	-1.1509	0.	1.0622	1.3810	0.1517
779.	113.32	-1.1463	0.	1.0622	1.3752	0.1510
780.	113.34	-1.1417	0.	1.0622	1.3694	0.1502
781.	113.36	-1.1371	0.	1.0621	1.3636	0.1495
782.	113.38	-1.1326	0.	1.0621	1.3579	0.1488
783.	113.40	-1.1280	0.	1.0621	1.3522	0.1481
784.	113.43	-1.1235	0.	1.0621	1.3465	0.1474
785.	113.45	-1.1191	0.	1.0621	1.3408	0.1467
786.	113.47	-1.1146	0.	1.0621	1.3352	0.1460
787.	113.49	-1.1102	0.	1.0621	1.3297	0.1453
788.	113.51	-1.1058	0.	1.0620	1.3241	0.1446
789.	113.54	-1.1014	0.	1.0620	1.3186	0.1440
790.	113.56	-1.0971	0.	1.0620	1.3132	0.1433
791.	113.58	-1.0927	0.	1.0620	1.3077	0.1426
792.	113.60	-1.0884	0.	1.0620	1.3023	0.1420
793.	113.62	-1.0842	0.	1.0620	1.2970	0.1413
794.	113.64	-1.0799	0.	1.0619	1.2916	0.1407
795.	113.66	-1.0757	0.	1.0619	1.2863	0.1400
796.	113.69	-1.0715	0.	1.0619	1.2810	0.1394
797.	113.71	-1.0673	0.	1.0619	1.2758	0.1388
798.	113.73	-1.0631	0.	1.0619	1.2705	0.1381
799.	113.75	-1.0590	0.	1.0619	1.2654	0.1375

T, °R	s*	s ₁ (T)x10 ⁵	s ₂ (T)	γ*	γ ₁ x 10 ⁶	γ ₂ x 10 ¹⁰
800.	113.77	-1.0549	0.	1.0619	1.2602	0.1369
801.	113.79	-1.0508	0.	1.0618	1.2551	0.1363
802.	113.82	-1.0467	0.	1.0618	1.2500	0.1357
803.	113.84	-1.0427	0.	1.0618	1.2449	0.1351
804.	113.86	-1.0387	0.	1.0618	1.2398	0.1345
805.	113.88	-1.0347	0.	1.0618	1.2348	0.1339
806.	113.90	-1.0307	0.	1.0618	1.2298	0.1333
807.	113.92	-1.0267	0.	1.0618	1.2249	0.1327
808.	113.94	-1.0228	0.	1.0617	1.2200	0.1322
809.	113.96	-1.0189	0.	1.0617	1.2151	0.1316
810.	113.99	-1.0150	0.	1.0617	1.2102	0.1310
811.	114.01	-1.0111	0.	1.0617	1.2053	0.1305
812.	114.03	-1.0073	0.	1.0617	1.2005	0.1299
813.	114.05	-1.0034	0.	1.0617	1.1957	0.1294
814.	114.07	-0.9996	0.	1.0616	1.1910	0.1288
815.	114.09	-0.9958	0.	1.0616	1.1862	0.1283
816.	114.11	-0.9921	0.	1.0616	1.1815	0.1277
817.	114.13	-0.9883	0.	1.0616	1.1768	0.1272
818.	114.16	-0.9846	0.	1.0616	1.1722	0.1267
819.	114.18	-0.9809	0.	1.0616	1.1675	0.1261
820.	114.20	-0.9772	0.	1.0616	1.1629	0.1256
821.	114.22	-0.9735	0.	1.0615	1.1584	0.1251
822.	114.24	-0.9699	0.	1.0615	1.1538	0.1246
823.	114.26	-0.9662	0.	1.0615	1.1493	0.1241
824.	114.28	-0.9626	0.	1.0615	1.1448	0.1236
825.	114.30	-0.9590	0.	1.0615	1.1403	0.1231
826.	114.32	-0.9555	0.	1.0615	1.1358	0.1226
827.	114.34	-0.9519	0.	1.0615	1.1314	0.1221
828.	114.36	-0.9484	0.	1.0614	1.1270	0.1216
829.	114.39	-0.9449	0.	1.0614	1.1226	0.1211
830.	114.41	-0.9414	0.	1.0614	1.1183	0.1206
831.	114.43	-0.9379	0.	1.0614	1.1139	0.1201
832.	114.45	-0.9344	0.	1.0614	1.1096	0.1197
833.	114.47	-0.9310	0.	1.0614	1.1053	0.1192
834.	114.49	-0.9276	0.	1.0614	1.1011	0.1187
835.	114.51	-0.9242	0.	1.0614	1.0968	0.1183
836.	114.53	-0.9208	0.	1.0613	1.0926	0.1178
837.	114.55	-0.9174	0.	1.0613	1.0884	0.1173
838.	114.57	-0.9141	0.	1.0613	1.0843	0.1169
839.	114.59	-0.9107	0.	1.0613	1.0801	0.1164
840.	114.61	-0.9074	0.	1.0613	1.0760	0.1160
841.	114.63	-0.9041	0.	1.0613	1.0719	0.1155
842.	114.66	-0.9008	0.	1.0613	1.0678	0.1151
843.	114.68	-0.8976	0.	1.0612	1.0638	0.1147
844.	114.70	-0.8943	0.	1.0612	1.0597	0.1142
845.	114.72	-0.8911	0.	1.0612	1.0557	0.1138
846.	114.74	-0.8879	0.	1.0612	1.0517	0.1134
847.	114.76	-0.8847	0.	1.0612	1.0477	0.1130
848.	114.78	-0.8815	0.	1.0612	1.0438	0.1125
849.	114.80	-0.8783	0.	1.0612	1.0399	0.1121

T, °R	s*	s ₁ (T)x10 ⁵	s ₂ (T)	γ*	γ ₁ x 10 ⁶	γ ₂ x 10 ¹⁰
850.	114.82	-0.8752	0.	1.0611	1.0360	0.1117
851.	114.84	-0.8720	0.	1.0611	1.0321	0.1113
852.	114.86	-0.8689	0.	1.0611	1.0282	0.1109
853.	114.88	-0.8658	0.	1.0611	1.0244	0.1105
854.	114.90	-0.8627	0.	1.0611	1.0205	0.1101
855.	114.92	-0.8597	0.	1.0611	1.0167	0.1097
856.	114.94	-0.8566	0.	1.0611	1.0129	0.1093
857.	114.96	-0.8536	0.	1.0611	1.0092	0.1089
858.	114.98	-0.8506	0.	1.0610	1.0054	0.1085
859.	115.00	-0.8475	0.	1.0610	1.0017	0.1081
860.	115.02	-0.8446	0.	1.0610	0.9980	0.1077
861.	115.04	-0.8416	0.	1.0610	0.9943	0.1073
862.	115.06	-0.8386	0.	1.0610	0.9906	0.1070
863.	115.08	-0.8357	0.	1.0610	0.9870	0.1066
864.	115.10	-0.8327	0.	1.0610	0.9834	0.1062
865.	115.12	-0.8298	0.	1.0610	0.9798	0.1058
866.	115.14	-0.8269	0.	1.0609	0.9762	0.1055
867.	115.16	-0.8240	0.	1.0609	0.9726	0.1051
868.	115.18	-0.8212	0.	1.0609	0.9691	0.1047
869.	115.20	-0.8183	0.	1.0609	0.9655	0.1044
870.	115.22	-0.8155	0.	1.0609	0.9620	0.1040
871.	115.24	-0.8126	0.	1.0609	0.9585	0.1037
872.	115.26	-0.8098	0.	1.0609	0.9550	0.1033
873.	115.28	-0.8070	0.	1.0609	0.9516	0.1030
874.	115.30	-0.8042	0.	1.0608	0.9481	0.1026
875.	115.32	-0.8014	0.	1.0608	0.9447	0.1023
876.	115.34	-0.7987	0.	1.0608	0.9413	0.1019
877.	115.36	-0.7959	0.	1.0608	0.9379	0.1016
878.	115.38	-0.7932	0.	1.0608	0.9345	0.1012
879.	115.40	-0.7905	0.	1.0608	0.9312	0.1009
880.	115.42	-0.7878	0.	1.0608	0.9278	0.1006
881.	115.44	-0.7851	0.	1.0608	0.9245	0.1002
882.	115.46	-0.7824	0.	1.0607	0.9212	0.0999
883.	115.48	-0.7797	0.	1.0607	0.9179	0.0996
884.	115.50	-0.7771	0.	1.0607	0.9146	0.0993
885.	115.52	-0.7744	0.	1.0607	0.9114	0.0989
886.	115.54	-0.7718	0.	1.0607	0.9081	0.0986
887.	115.56	-0.7692	0.	1.0607	0.9049	0.0983
888.	115.58	-0.7666	0.	1.0607	0.9017	0.0980
889.	115.60	-0.7640	0.	1.0607	0.8985	0.0977
890.	115.62	-0.7614	0.	1.0606	0.8954	0.0973
891.	115.64	-0.7589	0.	1.0606	0.8922	0.0970
892.	115.66	-0.7563	0.	1.0606	0.8891	0.0967
893.	115.68	-0.7538	0.	1.0606	0.8859	0.0964
894.	115.70	-0.7512	0.	1.0606	0.8828	0.0961
895.	115.72	-0.7487	0.	1.0606	0.8797	0.0958
896.	115.74	-0.7462	0.	1.0606	0.8766	0.0955
897.	115.76	-0.7437	0.	1.0606	0.8736	0.0952
898.	115.78	-0.7413	0.	1.0605	0.8705	0.0949
899.	115.80	-0.7388	0.	1.0605	0.8675	0.0946

T, °R	s*	$s_1(T) \times 10^5$	$s_2(T)$	γ^*	$\gamma_1 \times 10^6$	$\gamma_2 \times 10^{10}$
900.	115.82	-0.7363	0.	1.0605	0.8645	0.0943
901.	115.84	-0.7339	0.	1.0605	0.8615	0.0940
902.	115.85	-0.7315	0.	1.0605	0.8585	0.0938
903.	115.87	-0.7290	0.	1.0605	0.8555	0.0935
904.	115.89	-0.7266	0.	1.0605	0.8526	0.0932
905.	115.91	-0.7242	0.	1.0605	0.8496	0.0929
906.	115.93	-0.7218	0.	1.0605	0.8467	0.0926
907.	115.95	-0.7195	0.	1.0604	0.8438	0.0923
908.	115.97	-0.7171	0.	1.0604	0.8409	0.0921
909.	115.99	-0.7148	0.	1.0604	0.8380	0.0918
910.	116.01	-0.7124	0.	1.0604	0.8351	0.0915
911.	116.03	-0.7101	0.	1.0604	0.8323	0.0912
912.	116.05	-0.7078	0.	1.0604	0.8294	0.0910
913.	116.07	-0.7055	0.	1.0604	0.8266	0.0907
914.	116.09	-0.7032	0.	1.0604	0.8238	0.0904
915.	116.11	-0.7009	0.	1.0603	0.8210	0.0902
916.	116.12	-0.6986	0.	1.0603	0.8182	0.0899
917.	116.14	-0.6963	0.	1.0603	0.8154	0.0896
918.	116.16	-0.6941	0.	1.0603	0.8126	0.0894
919.	116.18	-0.6918	0.	1.0603	0.8099	0.0891
920.	116.20	-0.6896	0.	1.0603	0.8072	0.0889
921.	116.22	-0.6874	0.	1.0603	0.8044	0.0886
922.	116.24	-0.6852	0.	1.0603	0.8017	0.0884
923.	116.26	-0.6830	0.	1.0603	0.7990	0.0881
924.	116.28	-0.6808	0.	1.0602	0.7963	0.0879
925.	116.30	-0.6786	0.	1.0602	0.7937	0.0876
926.	116.32	-0.6764	0.	1.0602	0.7910	0.0874
927.	116.33	-0.6743	0.	1.0602	0.7884	0.0871
928.	116.35	-0.6721	0.	1.0602	0.7857	0.0869
929.	116.37	-0.6700	0.	1.0602	0.7831	0.0866
930.	116.39	-0.6679	0.	1.0602	0.7805	0.0864
931.	116.41	-0.6657	0.	1.0602	0.7779	0.0861
932.	116.43	-0.6636	0.	1.0602	0.7753	0.0859
933.	116.45	-0.6615	0.	1.0601	0.7728	0.0857
934.	116.47	-0.6594	0.	1.0601	0.7702	0.0854
935.	116.49	-0.6573	0.	1.0601	0.7677	0.0852
936.	116.51	-0.6553	0.	1.0601	0.7651	0.0850
937.	116.52	-0.6532	0.	1.0601	0.7626	0.0847
938.	116.54	-0.6512	0.	1.0601	0.7601	0.0845
939.	116.56	-0.6491	0.	1.0601	0.7576	0.0843
940.	116.58	-0.6471	0.	1.0601	0.7551	0.0841
941.	116.60	-0.6450	0.	1.0601	0.7527	0.0838
942.	116.62	-0.6430	0.	1.0600	0.7502	0.0836
943.	116.64	-0.6410	0.	1.0600	0.7477	0.0834
944.	116.66	-0.6390	0.	1.0600	0.7453	0.0832
945.	116.67	-0.6370	0.	1.0600	0.7429	0.0829
946.	116.69	-0.6351	0.	1.0600	0.7405	0.0827
947.	116.71	-0.6331	0.	1.0600	0.7380	0.0825
948.	116.73	-0.6311	0.	1.0600	0.7357	0.0823
949.	116.75	-0.6292	0.	1.0600	0.7333	0.0821

T, °R	s*	s ₁ (T)x10 ⁵	s ₂ (T)	γ*	γ ₁ x 10 ⁶	γ ₂ x 10 ¹⁰
950.	116.77	-0.6272	0.	1.0600	0.7309	0.0819
951.	116.79	-0.6253	0.	1.0599	0.7285	0.0816
952.	116.80	-0.6234	0.	1.0599	0.7262	0.0814
953.	116.82	-0.6214	0.	1.0599	0.7239	0.0812
954.	116.84	-0.6195	0.	1.0599	0.7215	0.0810
955.	116.86	-0.6176	0.	1.0599	0.7192	0.0808
956.	116.88	-0.6157	0.	1.0599	0.7169	0.0806
957.	116.90	-0.6138	0.	1.0599	0.7146	0.0804
958.	116.92	-0.6120	0.	1.0599	0.7123	0.0802
959.	116.93	-0.6101	0.	1.0599	0.7100	0.0800
960.	116.95	-0.6082	0.	1.0598	0.7078	0.0798
961.	116.97	-0.6064	0.	1.0598	0.7055	0.0796
962.	116.99	-0.6045	0.	1.0598	0.7033	0.0794
963.	117.01	-0.6027	0.	1.0598	0.7010	0.0792
964.	117.03	-0.6009	0.	1.0598	0.6988	0.0790
965.	117.04	-0.5991	0.	1.0598	0.6966	0.0788
966.	117.06	-0.5973	0.	1.0598	0.6944	0.0786
967.	117.08	-0.5954	0.	1.0598	0.6922	0.0784
968.	117.10	-0.5937	0.	1.0598	0.6900	0.0782
969.	117.12	-0.5919	0.	1.0598	0.6879	0.0780
970.	117.14	-0.5901	0.	1.0597	0.6857	0.0778
971.	117.15	-0.5883	0.	1.0597	0.6835	0.0776
972.	117.17	-0.5866	0.	1.0597	0.6814	0.0774
973.	117.19	-0.5848	0.	1.0597	0.6793	0.0772
974.	117.21	-0.5830	0.	1.0597	0.6771	0.0771
975.	117.23	-0.5813	0.	1.0597	0.6750	0.0769
976.	117.25	-0.5796	0.	1.0597	0.6729	0.0767
977.	117.26	-0.5778	0.	1.0597	0.6708	0.0765
978.	117.28	-0.5761	0.	1.0597	0.6687	0.0763
979.	117.30	-0.5744	0.	1.0596	0.6667	0.0761
980.	117.32	-0.5727	0.	1.0596	0.6646	0.0760
981.	117.34	-0.5710	0.	1.0596	0.6625	0.0758
982.	117.35	-0.5693	0.	1.0596	0.6605	0.0756
983.	117.37	-0.5676	0.	1.0596	0.6584	0.0754
984.	117.39	-0.5660	0.	1.0596	0.6564	0.0752
985.	117.41	-0.5643	0.	1.0596	0.6544	0.0751
986.	117.43	-0.5626	0.	1.0596	0.6524	0.0749
987.	117.44	-0.5610	0.	1.0596	0.6504	0.0747
988.	117.46	-0.5593	0.	1.0596	0.6484	0.0745
989.	117.48	-0.5577	0.	1.0595	0.6464	0.0744
990.	117.50	-0.5561	0.	1.0595	0.6444	0.0742
991.	117.52	-0.5545	0.	1.0595	0.6424	0.0740
992.	117.53	-0.5528	0.	1.0595	0.6405	0.0739
993.	117.55	-0.5512	0.	1.0595	0.6385	0.0737
994.	117.57	-0.5496	0.	1.0595	0.6366	0.0735
995.	117.59	-0.5480	0.	1.0595	0.6347	0.0734
996.	117.61	-0.5464	0.	1.0595	0.6327	0.0732
997.	117.62	-0.5449	0.	1.0595	0.6308	0.0730
998.	117.64	-0.5433	0.	1.0595	0.6289	0.0729
999.	117.66	-0.5417	0.	1.0594	0.6270	0.0727