A

COLLECTION OF TABLES,

ASTRONOMICAL, METEOROLOGICAL,

AND

MAGNETICAL,

ALSO,

FOR DETERMINING THE ALTITUDES OF MOUNTAINS;

COMPARISON OF

FRENCH AND ENGLISH WEIGHTS AND MEASURES, &c.,

COMPUTED IN THE OFFICE

OF THE H. E. I. Co's. MAGNETIC OBSERVATORY, SIMLA,

UNDER THE DIRECTION OF

LIEUT. COLONEL J. T. BOILEAU, ENGINEERS,

SUPERINTENDENT.

UMBALLA:

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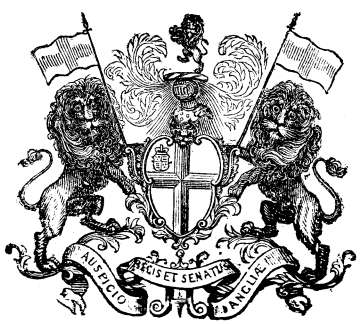

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PREFACE.

The Tables in this collection were originally arranged, several of them having been specially computed, for use in the Simla Magnetic Observatory; they comprise such as are chiefly necessary, as auxilaries, in reducing astronomical and meteorological observations: a few Tables for comparing French and English weights and measures have been since added, and also two Tables which are of general application in the reduction of magnetic observations. A second Table of the elastic force of aqueous vapour, by REGNAULT, has been added to APJOHN's Hygrometric Tables; it has been converted into English measure, and expanded from the original, as published in TAYLOR's Scientific Memoirs Vol. IV, page 605.

I am indebted to my Head Assistant MR. C. NUTTALL for much valuable aid in the computation and general arrangment of the Tables, and for correction of the proof sheets while the work has been passing through the press.

A register of meteorological observations, having been established at many stations in India, under the sanction of Government, a sufficient number of extra copies of these Tables has been struck off to admit of their being generally used throughout the country.

Umballa,
20th May 1851.

I. T. BOILEAU,
Lt. Colonel Engineers,
Supt. Simla M. O.

TABLES I. TO IV.

Ivory's mean Astronomical Refractions.

The first of these Tables was published in the Philosophical Transactions of the Royal Society for 1823, pp. 491, et seq: and a second paper and Table by the same Author, appeared in the Philosophical Transactions for 1838. The mean refractions for Zenith distances under 83° correspond exactly in both the above Tables, but the refractions differ for Zenith distances between 83° and the horizon.

In Table I. of the original (of 1838) the mean refractions are given for each degree only as far as Z. D. 70° inclusive, and thence for every 10′ to the horizon. In the accompanying Tables intermediate numbers have been obtained by interpolation to differences of the third and second order, and they have been so arranged that the tabular refractions for that part of the Table of most practical utility shall vary only between one and two seconds.

The numbers in the original Table for the last degree of Zenith Distance, however, were found to give such irregular differences that the whole of the intermediate numbers between the limits of 89° and 90° have been obtained by differences to the third order, from the mean refraction for 89° *i. e.* 24′ 26.″8, and the horizontal refraction 34′ 32″; and although the alterations which this arrangement has introduced are of no practical importance, the following detail of the interpolations is inserted here, as a guarantee for the course which has been adopted.

TABLE I. Interpolations between numbers as in the original Table of 1838.

Zen. dist.	Mean refraction.	Tab. diff. M. R.	d. 1	d. 2	d. 3
° ′	′ ″	″			
89 00	*24 26.80				
	.. ..	..	39.17		
05	25 05.97	80	..	1.66	
	.. ..	..	40.83	..	+ .17
10	*25 46.80	..	..	1.83	
	.. ..	..	42.66	..	+ .15
15	26 29.46	87.40	..	2.08	
	.. ..	..	44.74	..	— .16
20	*27 14.20	..	..	1.92	
	.. ..	..	46.66	..	+ .06
25	28 00.86	95.30	..	1.98	
	.. ..	..	48.64	..	+ .12
30	*28 49.50	..	..	2.10	
	.. ..	..	50.74	..	+ .12
35	29 40.24	103.70	..	2.22	
	.. ..	..	52.96	..	— .26
40	*30 33.20	..	..	1.96	
	.. ..	..	54.92	..	+ .10
45	31 28.12	111.90	..	2.06	
	.. ..	..	56.98	..	+2.16
50	*32 25.10	..	..	4.22	
	.. ..	..	61.20	..	+0.28
55	33 26.30	126.90	..	4.50	
	.. ..	..	65.70		
90	*34 32.00				

TABLE II. Interpolations between Tabular refractions for Z. D, 89° *and Z. D.* 90°.

Mean refraction.	Tab. diff. M. R.	d. 1	d. 2	d. 3	New No. + or — original.
′ ″	″				
*24 26.8					
.. ..		39.2			
25 06.	80.1	..	1.7		+ 0.03
.. ..	..	40.9	..	+ .1	
25 46.9	..	..	1.8		+ 0.10
.. ..	..	42.7	..	+ .1	
26 29.6	87.3	..	1.9		+ 0.14
.. ..	..	44.6	..	+ .1	
27 14.2	..	..	2.0		+ 0.00
.. ..	..	46.6	..	+ .0	
28 00.8	95.2	..	2.0		— 0.06
.. ..	..	48.6	..	+ .2	
28 49.4	..	..	2.2		— 0.10
.. ..	..	50.8	..	+ .1	
29 40.2	103.9	..	2.3		— 0.04
.. ..	..	53.1	..	+ .2	
30 33.3	..	..	2.5		+ 0.10
.. ..	..	55.6	..	+ .1	
31 28.9	113.8	..	2.6		+ 0.78
.. ..	..	58.2	..	+ .2	
32 27.1	..	..	2.8		+ 2.0
.. ..	..	61.	..	+ .1	
33 28.1	124.9	..	2.9	..	+ 1.8
.. ..	..	63.9	..		
*34 32					

The numbers to which asterisks are affixed, are those of the original Table.

With a view to facilitate the computation of numbers still intermediate between those in the present Table, Log. differences corresponding to one minute of altitude and to one second of refraction, have been given in separate columns.

The Tables (II. and III. of 1838) containing the Log. co-efficient for Barometric pressure and for Temperature, have been extended to the limits of practical utility, and the co-efficients of the correction for altitudes under 10° have been taken from their respective columns in the original Table I. and expanded by interpolation as above.

The following examples, will explain the use of the Tables,

Let P denote the height of the Barometer.
„ T „ the temperature, Fahrenheit.
„ Z „ the Zenith distance of the object.

Then as far as 80° of Z. D. the log. mean refraction is equal to

Log. P From TABLE III.
+ Log. T From TABLE IV.
+ Log. Z From TABLE I.

and to the refraction so found, must be applied the following corrections when the zenith distance exceeds 80° : viz.

$$-t.(T-50°)$$
$$-b.(30 \text{ ins.} - P)$$

The values of t and b will be found in TABLE II.

Example I. The observed Zenith distance of Capella being 88° 24′ 09″.4, the height of the Barometer 29.73 ins., and the Temperature 47°.75 Fahrenheit; required the refraction?

Log. P	29.73 in	Table, III.	.. ..	9.99607
Log. T	47°.75	Table, IV.	.. ..	0.00214
Log. Z	88° 20′00	Table, I.	.. ..	3.08087
Prop. part for	04′09″.4 = 04′.157	.. .. ..		840
Nearest Tabular refraction, ...			20′ 04″.68	3.08748

Log. diff. 661 ÷ 36 or Tab. diff. for 1″	= +18 .37	
$-t.$ (T. − 50°) (Table II.)	= − .92 × −2.°25	= + 2 .07
$-b.$ (30 ins. − P) (Table II.)	= −1.67 × + .27	= − 0 .45
Mean refraction, ...		20′ 24″.57

Example II. From the appendix to the Greenwich Transactions for 1836.

To find the refraction for Zenith distance 83° 22′, the Barometer reading being 29.63 ins. and Thermometer 58°.1 Faht.

Log. P	29.63 in	Table III.		9.99461
Log. T	58°.1	Table IV.		9.99239
Log. Z	83° 20′	Table I.		2.66759
Propl. part. for	02′			190
Nearest Tabular refraction, ...			7′ 30″.21	2.65649

	Brought over,	7′ 30″.21
Log. diff. 308 ÷ 97 or Tab. diff. for 1″ =		+ 03 .18
$-t.-(T-50°)$ Table IV. = $-.08\times+8.1$ =		− 00 .65
$-b.-(30\text{ ins.}-P)$ „ $-.13\times+.37$ =		− 00 .05
Mean refraction by the Tables, ...		7′ 32″.69
do. do. by P. BESSEL's Tables, appendix, Gr. Tr. 1836,		7′ 31″.71
Refraction by IVORY's Tables, ...		+0″.98

When the *altitude* of the body is observed, it is advisable to convert it into Zenith distance by subtraction from 90°, the proportional parts of the Logs. being then additive.

Example III. The altitude of the sun's lower limb was observed 45° 15′ 42″.5, the Barometer standing at 23.33 ins., and the Thermometer at 47°.2 Faht.;—required the refraction.

$$(90°-45°\ 15'\ 42''.5) = 44°\ 44'\ 17''.5 = Z.$$

Log. P	23.33 in	Table III.		9.89079
Log. T	47°.2	Table IV.		0.00266
Log. Z	44° 30′	Table I.		1.75855
Prop. part for	14′.292	do.		357
Nearest Tabular number,	.. .. ..		0′ 44″.80	1.65557

Log. diff. 43 ÷ 97 or Tab. diff, 1″ =	+0 .44
Mean refraction, ...	0′ 45″.24

The following errata in the Original Table (Phil. Trans. for 1838) have been corrected.

Mean refraction for Z. D.	89° 50′	printed	32′ 15″.10	should be	32′ 25″.1		
Log. diff. Z. D.	89° 00′	and 89° 10′	.. ..	2316	.. ..		2306
	86° 40′	„ 86° 50′	.. ..	1627	.. ..		1527
	85° 40′	„ 85° 50′	.. ..	1312	.. ..		1308
	83° 00′	„ 83° 10′	.. ..	833	.. ..		933

TABLE V.

For converting Intervals of Mean Solar Time, into equivalent Intervals of Sidereal Time.

Example. It is required to convert $2^h\ 22^m\ 25^s.62$ Mean Time into its equivalent interval in Sidereal Time.

	h	m	s		h	m	s
For intervals	2	0	0	The Table gives equivalent	2	00	19.713
of Mean Time,		22	00	intervals in Sidereal Time.		22	03.614
			25				25.069
			00.62				00.622
For Mean Time	2	22	25.62	the equiv. in Sidl. Time is	2	22	49.018

TABLE VI.

For converting Intervals of Sidereal Time, into equivalent Intervals of Mean Solar Time.

Example. Required to convert $21^h\ 9^m\ 52.94$ Sidereal Time into its equivalent interval in Mean Solar Time.

	h	m	s		h	m	s
For intervals	21	00	00	The Table gives the equivalent	20	56	33.579
of Sidereal Time		09	00	intervals in Mean Time.		8	58.526
			52				51.858
			00.94				937
For Sidereal Time	21	09	52.94	the equiv. in Mean Time is	21	06	24.9

TABLE VII.

For converting intervals of Space estimated in Degrees and parts, into their corresponding intervals in Time.

This Table has been computed on the ratio of 15° equal to I. hour. The first part is so arranged that the column headed "minutes of time to hours" answers alike for all six hour columns, an arrangement whereby the Table is rendered more synoptical and convenient for use.

Example. What is the equivalent in Time to 217° 17′ 35″.

			h	m	s
	217° 00′ 00″	is equal to	XIV.	28	00
	17 00	„	0	01	08
	35	„	0	00	02.333
Answer	217° 17′ 35″	„	XIV.	29	10.333

TABLE VIII.

For converting intervals of Time, into their equivalents in Space.

The Table is the reverse of Table VII. and is based on the ratio I. hour equal to 15° in space.

Example. Required the equivalent in space to ^{h}VII. ^{m}47 ^{s}11.36.

	h	m	s				
	VII.	00	00	are equal to	105°	0′	0″
		47	00	„	11	45	0
			11	„		2	45
			00.36	„			05.4
Answer	VII.	47	11.36	are equal to	116	47	50.4

NOTE. In using this Table it must be carefully observed, that when the argument in the second Time column is *minutes*, the equivalent is *degrees* and *minutes* of space, and when the Time argument is *seconds*, the equivalent is *minutes* and *seconds* of space.

TABLE IX.

For converting Mean Time, into parts of the Equator.

The Earth performs one complete revolution on its axis, in $23^{h}\ 56^{m}\ 04^{s}.0906$ of Mean Time; *i. e.* any point on the Equator will have passed through 360° during that interval; whence by proportion it will be found to pass through 15° 2′ 27″.847 of space in one hour of Mean Time. The Table (which is the same as GALBRAITH'S TABLE LXII. page 111) has been computed on this ratio; its use is to determine the arc value of observations taken with a Mean Time Clock or Chronometer.

Example. Required the Equatorial equivalent in arc corresponding to $^{h}13\ ^{m}19\ 53.87$ of Mean Time.

	h	m	s					
	13	00	00	are equal to	195°	32′	02	.010
		19	00	„		4	45	46 .818
			53	„			13	17 .176
			0.8	„				12 .033
			07	„				1 .053
Answer	13	19	53.87	are equal to	200	31	19	.090

TABLE X.

Of proportional parts (or correction) for the daily rate of a Chronometer, applicable to Clocks regulated either to Mean Solar or Sidereal Time.

The daily rate, or the rate for 24 whole hours, is entered at the head across each double column, the hours and minutes of time for which the rate is required, are shewn in the two first and the two last columns of the open page, and the proportional parts of the rate corresponding to the hours and minutes, are entered in their respective columns according to the heading under the daily rate; these are to be applied to the observed interval with a + or − sign according as the clock may have a losing or gaining rate; the proportional parts for decimals of seconds of rate will be taken from the columns of whole seconds, shifting the decimal point of the proportional part, as many places to the left hand as may be necessary.

Example I. Required the proportional part of the rate of a Chronometer gaining $11^{s}.46$ daily, for an interval of $9^{h}\ 27\frac{1}{2}$ minutes.

	s		h	s		s
for	11	the pro. part for	9	is 4.125	and for $27\frac{1}{2}$ min.	0.210
„	.46	„		173	„	009
		Sum		4.298	*Sum*	0.219
					Add	4.298
		Total proportional rate for $9^{h}\ 27\frac{1}{2}$ minutes,				−4.517

If the rate had been a losing one the sign of the correction would have been +.

Example II. What is the correction for the rate of a Clock losing $0^s.93$ daily for an interval of $7^h\ 46^m$.

for $0^s.90$	the pro. part for 7^h, is	$0^s.262$	and for 46^m	$0^s.029$
„ .03	„	.009	„	.001
		0.271		.030
				.271
The correction of rate $0^s.93$ daily is for $7^h\ 46^m$				$+0^s.301$

It will be observed by an inspection of the Table, that where the daily rate is under 7 seconds, it will suffice to take the interval to which it is to applied to the nearest minute of time only, and from 7 seconds up to the highest rate, 15 seconds daily, to the nearest half minute only; the proportional parts of the half minutes may be added to the part for full minutes, mentally.

TABLE XI.

Equivalents to Fahrenheit's Thermometer in Reaumur's and the Centigrade Scales.

The Temperatures of the Freezing and Boiling points by the several Thermometers, are as follows:

By Fahrenheit's scale,	Freezing point,	32°	Boiling point,	212°
„ Reaumur's	do.	„	0	„	80
„ Centigrade	do.	„	0	„	100

Let $x°$ denote any degree in Fahrenheit's scale: its value in the other denominations will be expressed by the following Equations:

$x°$ Fahrenheit, $= (x° - 32) \times \frac{4}{9}$ .. .. .. Reaumur (I)

„ „ $= (x° - 32) \times \frac{5}{9}$ .. .. .. Centigrade (II)

by which Formulæ this Table has been computed.

When the number given is a whole degree Faht. the Equivalent in Degrees of Reaumur and the Centigrade scale is found in the proper column, and in the same horizontal line with the given degree Faht.: but when the given number contains the decimal of a degree, the Equivalent for the part or parts must be taken out separately and added to the equivalent for the whole degree.

Example I. Required the degree of the Centigrade thermometer corresponding to 206°.3 Faht.

	206°	Faht. are equal to		96°.67	Centigrade.
	.3	„	„	.17	„
Answer	206°.3	Faht.	„	96°.84	Centigrade.

In taking out the equivalents to degrees Faht. between 32° and 0°, the equivalents for the decimal parts must be subtracted from the values corresponding to the whole degrees, as in the following,

Example II. What is the equivalent in degrees of Reaumur's scale, to 19°.35 Faht.

	19°	Faht. correspond to		−5°.78	Reaumur.
	.30	„	„	.13	
	.05	„	„	.02	−.15
Answer	19°.35	Faht. are equal to		5°.63	Reaumur.

TABLE XII.

Equivalents to Reaumur's Thermometer, in Degrees of Fahrenheit's and the Centigrade Scales.

From equation I. explanation of Table XI, we obtain,

$x°$ Reaumur .. .. $= (32 \times \frac{4}{9}\, x°)$ Fahrenheit, (III.)

and since 80° Reaumur, = 100° Centigrade, it follows that

$x°$ Reaumur .. .. $= \frac{5}{4}\, x°$ Centigrade. (IV.)

TABLE XIII.

Equivalents to the Centigrade Scale, in Degrees of Fahrenheit's and Reaumur's Thermometers.

Equation II. above gives,

$x°$ Centigrade, ... $(32 \times \frac{5}{9}\, x°)$ Fahrenheit. (V.)

and from Equation IV. we obtain,

$x°$ Centigrade, ... $\frac{4}{5}x°$ Reaumur. (VI.)

The applicaton of TABLES XII and XIII is similar to that of TABLE XI.

TABLE XIV.

Comparison of English and French Measures.

Measures of Length.

In computing this Table, the value of the French Metre in English Inches, has been taken from the *Annuaire du Bureau des Longitudes,* for the year 1849, whence the following numbers are obtained,—viz.:

The Millimetre, ...	=	0.03937079	inches.
„ Metre, ...	=	39.37079	inches.
		3.2808992	feet.
„ Inch, ...	=	25.39954	millims.
„ Foot, ...	=	0.30479449	metre.

which have been employed in computing this Table.

Example I. Required the equivalent in English measure to 786.45 metres?

The equivalent to	700	metres,	is	2296.629	feet.
„ „ „	86	„	„	282.157	„
„ „ „	.45	„	„	14.764	„
Answer	786.45	metres are equal to		2593.550	feet.

The equivalent to 45 metres is taken from opposite to 45 in the column of integers, the decimal point being shifted one place to the left.

Example. II. Required the value in French Measure of 7365.4 feet,

The number corresponding to	7000	feet,	is	2133.561	metres.	
„ „ „ „	300	„	„	91.438	„	
„ „ „ „	65	„	„	19.812	„	
„ „ „ „	.4	„	„	.122	„	
Answer	7365.4	feet	=	2244.933	metres.	

TABLE XV.

Of the Depression of, or Capillary action on, a column of Mercury in glass tubes.

The Depressions are for unboiled tubes. Where the mercury has been boiled in filling, one half of the tabular numbers corresponding to the diameter of the tube will be taken. The Table is according to the formula of Mr. Ivory and has been expanded from Table I, page 63, by Galbraith. The correction for capillarity is always added to the observed reading of the Barometer.

An explanation of the use of this Table, will be given with the explanation for Table XVII.

TABLE XVI.

For determining Altitudes with the Barometer.

Is a reprint of Baily's Table XXXVI, and has been introduced here for the convenience of those who prefer the use of Logarithms, as also for comparison of results obtained by Table XVII.

The following is Mr. Baily's explanation.

For the determination of the height of mountains by means of the Barometer, observations must be made at the foot of the mountain at the same time that corresponding observations are made at the top of the same. The difference, or the height of the stations of the two observers may then be determined by means of the Table and agreeably to the rule given therein.

Example. Mr. de Humboldt made the following observations on the mountain Guanaxuato in Mexico in Latitude 21°; viz.

	Upper Station		*Lower Station*	
Thermometer in the open air,	t'	70°.34	t	77°.54
Thermometer to Barometer,	T′	70 .34	T	77 .54
Barometer,	β'	23^{in}.659	β	30^{in}.045

What was the difference of height of the two stations ?

By referring to the Formula in Table XVI, the operation will stand thus ;

$T-T'=77°.54-70°.34=$	$7°.2$	$=$ B,	Log.	0.00031
Barometer at upper station $=23^{in}.659$		$=\beta'$,	Log.	1.37400
			Log. sum	1.37431
Barometer at lower station $=30^{in}.045$		$=\beta$,	Log.	1.47777
			D = Diff.	0.10346
			Log. D	−1.01477
Latitude, ...	21°	= C,	Log.	.00087
$t+t'=77°.54+70°.34=$	$147°.88$	= A,	Log.	4.81935
Answer 6838.9 feet			*Sum*	3.83499

TABLE XVII.

For reducing Observations of the Barometer, to the Temperature 32° *Faht.*

This Table is applicable only to Barometers with brass scales extending from the cistern to the top of the mercurial column : it has been reprinted in part from TABLE II in the Report of the Physical Committee of the Royal Society of LONDON, on the observations to be made in Magnetic Observatories &c. and has in part been computed by the formula, given in page 67, of GALBRAITH's Tables, Edt. 1834. viz.

$$C=\beta\frac{\Delta(t-32°)-\delta(t-62°)}{1+\Delta(t-32°)} \qquad \text{(VII.)}$$

In which β = the observed reading of the Barometer or the height upon the brass scale.

Δ = the dilatation of mercury for 1° of Faht. = .000100

δ = do. do. of brass for do. do. = .0000106

t = the temperature of the mercury, and of the brass scale, which are assumed to be equal.

32° is the standard temperature to which all Barometrical observations are reduced, and

62° = the standard temperature at which the brass scale shows English inches.

The tabular numbers for all readings of the Barometer below 20 ins. through the whole scale of temperature, also for readings of the Barometer above 20 ins. and 100° Faht., have been computed by the above formula; the remaining numbers are reprints from the Royal Society's Table.

The use of this Table and of Table XV, will be understood from the following.

Example I. It is required to correct a reading of the Barometer 23.462 ins., diameter of tube 0.277 ins., temperature of mercury in the cistern 75°.6 Faht., for capillary action, and to reduce the reading to the standard temperature, or 32° Faht.

Observed reading of the Barometer,			23.462 ins.
Correction from Table XV for capillary action 0.277 ins... .. .. .. is,	+0.034		
Reduction from Table XVII for 76°.6 is	−0.098	*Diff.*	−.064
Reduced reading at 32° Faht.			23.398 ins.

Where the temperature of the mercury in the cistern of the Barometer is below 29° Faht., the correction from Table XVII is positive, as follows.

Example II. Correct and reduce a reading of the above Barometer 29.248 ins. for capillarity and temperature of mercury 19°.7

Observed reading of Barometer, ...			29.248 ins.
Correction for capillarity as above,.. ..	+0.034		
Reduction from Table XVII for 19°.7 and 29.25 ins. .. .. .. is,	+0.025	*Sum*	+0.059
Reading reduced to 32° Faht is,			29.307 ins.

TABLE XVIII, to XXI.

Oltmanns' Barometrical Tables

For determining the height of Mountains by means of the Barometer..

These Tables have been converted to suit English Barometers, and Fahrenheit's thermometer, and the altitudes reduced to feet, from those

published yearly in the "*Annuaire du bureau des longitudes,*" whence the following introductory remarks are taken.

These Tables are due to MR. OLTMANNS, and appear to be the most convenient of any hitherto published, for expediting the calculation of heights, at least when logarithms are not employed; the detail of operations is as follows.

Let h represent the height of the Barometer at the lower station, in English inches; h′ that of higher station, T and T′ the temperatures Faht. of the Barometer; t and t' those of the air.

Take out from Table XVIII, the number corresponding to h, and call it a; also that corresponding to h', which call b: let c be the number, generally very small, which is found in Table XIX, opposite $T-T'$; the approximate height when $T-T'$ is positive will be

$$a-b-c,$$

and when $T-T'$ is negative it will be

$$a-b+c.$$

To apply to the approximate height, the correction depending on the temperature of the strata of air, it will suffice to multiply the hundredth part of this height by the quantity.

$$\frac{(t+t')-64}{9}$$

the correction will be positive or negative, according as $(t+t')$ may be itself positive or negative.

The second and last correction, that for latitude and the diminution of gravity, will be obtained by taking from Table XX, the number which corresponds vertically to the latitude and horizontally to the approximate height; this correction is always additive.

(1) This correction in the original Tables, is

$$\frac{H}{1000}\times 2\,(t+t')$$

H being the approximate height, and t and t' the readings of a Centigrade Thermometer, *i. e.* the number of Centigrade degrees above the freezing point; therefore to obtain the coefficient in terms of Fahrenheit's scale, we must reckon the number of degrees, in t and t' from 32° the freezing point of that scale, and multiply these numbers by the ratio of the degree Centigrade, to the degree Faht. we shall then have for the Correction

$$\frac{H}{1000}\times 2\,[(t+t')-64]\times\frac{5}{9}=\frac{H}{100}\times\frac{(t+t')-64}{9}$$

as given in the text.

In very rare cases, where the lower station may be itself much elevated above the level of the sea, it will be necessary to apply to the result a small correction, the value of which will be found in Table XXI.

Example. The following observations were taken by M. DE HUMBOLDT, for the purpose of determining the height of the Mountain Guanaxuato in Mexico, Latitude 21°.

	Lower Station.	*Upper Station.*
Height of the Barometer, ...	$30^{in}.045 = h$	$23^{in}.659 = h'$
Attached Therm. of do. (Faht.)	$77°.54 = T$	$70°.34 = T'$
Detached Thermometer (Faht.)	$77°.54 = t$	$70°.34 = t'$

Then Table XVIII, gives a for	$30^{in}.045$	20287.7
and b for	$23^{in}.659$	14044.6
	$a-b$ .. .. =	6243.1
Table XIX, gives c for $T-T'=+7°.2$ Faht.		− 19.3
Approximate height, $a-b-c$ .. .. =		6223.8
1st Correction, $= \frac{6223.8}{100} \times \frac{(70.34+77.54)-64}{9}$		+ 580.0
	Sum =	6803.8
2nd Correction, Table XX, gives for 6804 feet, and 21°		+ 34.5
True height of the Mountain, ...		6838.3 feet.
The result obtained by the Tables in the Annuaire is 2084.3 Metres, or		6838.4 feet[2]

TABLE XXII.

Local corrections for the Barometer.

Observations of the Barometer are still subject to two causes of variation, after the instrumental readings have been corrected and reduced to a standard temperature; viz. 1st, they are influenced by the diurnal Barometric tides, and will be greater or less than the mean reading

(2) The example given in BAILY's Tables, Ed. 1827 p. 263, is the same as that here given, only that in converting the Thermometer and Barometer into English measures the equivalents have not been carried out to the same number of places in the decimals as has been done above; had this been the case the height computed by MR. BAILY's Formula Table XXXVI, would have come out 6838.9 feet instead of 6843.7 feet as given in his Example, differing less than 7 ins. from that deduced by OLTMANNS' Tables instead of 5½ feet nearly. *(See the Example to Table XVI.)*

according as they are taken nearer to the time of the daily maxima or minima, the former of which occurs ordinarily about 10, the latter about 4 o'clock A. M. and P. M. civil reckoning ;—and 2ndly, they are influenced by local causes of disturbance, which may certainly affect the reading by a full half inch or more. An approximate correction may be applied on the first account provided that the observer remains sufficiently long at, or near his station to observe the daily range, or to register readings at the periods of maxima and minima, about 6^h A. M. and P. M., and at Noon and Midnight, which may generally be done : or since the Barometer ordinarily arrives at its mean state about the hours of Midnight. 1 P. M. and 7 A. M. and P. M., observations taken at these hours will probably be nearly free from the effect of tidal influence *i. e.* from the diurnal oscillation of the mercury. But in individual readings taken in detached situations, especially those which are distant from fixed observatories and are thus deprived of the means of reference and comparison, the second cause of irregularity—local disturbance, which cannot be ascertained on the spot by any direct means, remains in full force, and the heights of mountains deduced from such observations are affected with the full amount of error due to this cause.

Table XXII has been prepared from the reduced readings of the Standard Barometer, registered in the Simla Magnetic Observatory during the years 1843, 1844, and 1845 : the numbers entered in the column for each month, are the differences between the mean of the readings taken at each hour of observation for the particular months of the three years, and the *mean* of all the readings taken through the whole term of three years : the sign being changed in order to its application as a correction to single observations taken in the hills near to Simla, to which alone it is supposed to apply.

Example. A reading of the Barometer taken at the top of the Dukanee Hill above Chadwick's Bungalow in the month of May, 1846, at $2\frac{1h}{2}$ P. M. corrected for capillarity, and temperature, was found to be 22.657 ins.: what is the reading corrected for mean variation according to the Simla Table.

Observation of the Barometer,	22.657 ins.
Correction from Table XXII. for the month of May, and for 2^h 29^m P. M.	+.032 „
Reading corrected for variation from mean,	22.689 ins.

TABLES XXIII AND XXIV.

For determining the Altitudes of Mountains by observations of the boiling point of Fahrenheit's Thermometer.

The heights of the Barometer corresponding to different boiling points have been derived from REGNAULT's Table of the Elastic forces of aqueous vapour, published in TAYLOR's Scientific memoirs Vol. IV, p. 605, by conversion of the numbers in the French Table into English units, and afterwards by interpolation, carried out as far as necessary to insure accuracy in the last place of decimals of the Barometric equivalents, corresponding to every tenth of a degree of Fahrenheit's scale, within the limit of this Table, *i. e.* from 212° to 176°, a range which includes the highest altitude (nearly 20000 feet) ever likely to be attained by travellers.

The mean height of a column of Mercury, at the temperature of 32° Fahrenheit at the level of the Sea, in Latitude 45°, is assumed by BESSEL, in an article on the Barometrical measurement of heights, (Vol. II, p. 519, TAYLOR's Scientific Memoirs), to be equal to 336.905 Paris lines, or 29.921 English inches, a quantity which is exactly similar to the Barometric height corresponding to the boiling point 212° Faht. as determined experimentally by REGNAULT. The number 29.921 ins. has therefore been taken as the zero of altitude, or as the Barometric pressure, corresponding to a boiling point temperature of 212° Faht. *at the level of the Sea.*

The numbers, in the column headed "Approximate height in feet" have been obtained from TABLE XVIII, by subtracting the height in feet in OLTMANNS' Table, corresponding to the height of the Barometer in TABLE XXIII, from the constant number 20179.5, which is the height in feet, in OLTMANNS' TABLE I, corresponding to the assumed reading of the Barometer 29.921 ins. *at the level of the Sea,* or at 0 feet of altitude.

The multipliers in TABLE XXIV, are computed on the supposition that dry air expands .00208333 of its bulk for every single degree, Faht.[3] or that a mass of dry air of which the volume is 1 at 32° Faht., becomes at $t° = 1 + t$ .00208333. The multipliers have been computed separately for each whole degree Faht. of the Table, and the intermediate numbers interpolated.

(3) BAILY's Astronomical Tables.—TABLE XXXV.—BIOT Astronomie Physique, 1811. Tome III. additions p. 10.

TABLES XXIII and XXIV, may be used in two ways: viz., 1st where it is intended to determine the difference of altitude between two points, by an observation taken both at the lower and upper stations; and 2ndly, where the height of any place at which an observation may be made, is referred to the level of the sea; in the first case the rule is as follows, viz.

Take out from TABLE XXIII. the approximate height in feet, corresponding to the observed temperature of the boiling point at the upper and lower stations; the difference between these numbers, is the approximate difference of level between the two stations: enter TABLE XXIV with the mean of the observed temperatures of the air, at the upper and lower station, and multiply the approximate difference of level by the number corresponding to the mean temperature in the column headed "multiplier": the product is the true difference of level sought.

In the second case it is necessary to proceed differently; the temperature of the boiling point will be assumed 212° Faht. at the sea level, or at 0 feet of altitude; the approximate height in feet from TABLE XXIII, corresponding to the observed boiling point at the upper station, will therefore be the approximate difference of level, to be corrected for the temperature of the air. At the upper station, an observation of the temperature of the air will invariably be taken with each observation of the boiling point, and in order to deduce the corresponding temperature at the sea level, it will suffice to add to the observed temperature at the upper station, one degree Fahrenheit, for every three hundred and thirty feet in the approximate height:[1] the sum will be the temperature of the air at the sea level or lower station. The multiplier corresponding to the mean of these two temperatures, will be taken from TABLE XXIV, and being applied to the approximate altitude as in the last rule, will give the true difference of level sought.

The above rules may be expressed algebraically as follows:

Let B and B′, denote the observed temperatures of the boiling point at the lower and upper stations respectively.

H and H′, the approximate heights from TABLE XXIII, corresponding to B and B′.

(1) The temperature of the air is not uniform: it diminishes as we ascend. The law of this diminution changes at each instant; but, from the mean result of many observations we may estimate the diminution of temperature corresponding to an altitude of three thousand metres, at sixteen or seventeen degrees Centigrade, (equal to 1° Faht. for 331 feet).—LAPLACE SYSTEME DU MONDE. ED. 1836 TOME I. p. 172.

t and t', the corresponding temperatures Faht. of the air.

m_1 the multiplier from TABLE XXIV, for mean temperature of the air, which in case 1, will be $\frac{t+t'}{2}$

m_2 the multiplier, in case 2nd in which the mean temperature of the air will be $= t' + \frac{H'}{660}$

D, the true difference of level between the two stations.

We shall then have

In case 1	$D = (H - H') \times m_1$	(VIII.)
and in case 2	$D = H' \times m_2$	(IX.)

Example I.—Case 1st. Required the difference of altitude between two stations at which the following observations were taken.

At the upper station, temp. of the B. P.	201°.5	of the air. 35.°	Faht.
At the lower station, temp. of the B. P.	211°.3	of the air. 50.	„
		Mean 42.5	
Approximate height in feet from Table XXIII, for	201°.5	= 5545.	feet.
do. do. do.	211°.3	365.	„
		Difference, 5180.	„
Multiplier for mean temp. from Table XXIV, for	42°.5	× 1.022	„
Correct difference of altitude, ...		= 5294.	feet.

Example II,—Case 2nd. At the Parang Pass in latitude 32°.25 N., on the 8th September, 1847, at 8 o'Clock A. M., the observed temperature of the boiling point by NEWMAN'S Thermometer, marked A. C., was 179°.3, the temperature of the air being 27°. Faht.; required the altitude of the Pass above the level of the sea.

Approximate height from Table XXIII, for	179°.3	= 17971.	feet.
Temperature of the Air at the Pass. ..	27°		
$H' = 17971 \div 660 =$	27°.2		
Multiplier from Table XXIV, corresponding to sum, ...	54°.2	× 1.046	
True difference of level,..		18797.7	feet.

TABLES XXV, XXVI, AND XXVII.

APJOHN'S Hygrometric Tables.

The formula of DR. APJOHN, according to which the elastic force of the aqueous vapour contained in the atmosphere is deduced from the observed temperature of a dry and wet bulb Thermometer freely exposed to evaporation, was first given in the Transactions of the Royal Irish Academy for 1835; but as a more complete exposition of the theory by which the general expression has been obtained, is given in a "Note on the value of the numerical co-efficient in the Hygrometric formula, applied to the observations of the dry and wet bulb Thermometers," by DR. APJOHN, published with some remarks by Professor LLOYD, in the proceedings of the Academy for 1840, it will only be necessary to notice the latter paper.

The following assumed data form the basis of DR. APJOHN's investigations:

1 That the specific heat of air and the caloric of elasticity of aqueous vapour are constant, and represented within ordinary variations of atmospheric temperature and pressure, the former by the number .267 the latter by .1115.

2 That where a dry and a moist bulb Thermometer are exposed to the influence of the same atmosphere, when the latter has obtained a stationary temperature, the caloric which vaporizes the water is equal to that which the surrounding gas evolves in descending through that number of degrees at which the moist bulb stands below the dry, *i. e.* from the proper temperature of the air, to that of the moist bulb.

3 That the air so cooled by successive contacts with the moistened bulb is saturated with humidity.

If now, a represent the specific heat of air,
e the latent heat of aqueous vapour,
t and t' the observed temperatures of a dry and wet bulb Thermometer encompassed with atmospheric air,
t'' the observed temperature of the dew point,
f' and f'' the elastic force of aqueous vapour at t and t'',
p the existing pressure in inches and decimals,
30 inches a standard Barometric pressure;
then the general expressions for the force of atmospheric vapour at the

temperature of the dew point in terms of the force of vapour at t' and of the difference of the temperatures of the wet and dry bulb Thermometers, are, where t' is greater than 32° Fahrenheit,

$$f''=f'-\frac{48\ a\ (t-t')}{e}\times\frac{p-f'}{30} \qquad \text{(X.)}$$

and where t' is less than 32° Fahrenheit,

$$f''=f'-\frac{43\ a\ (t-t')}{e}\times\frac{p-f'}{30} \qquad \text{(XI.)}$$

in which, by substituting for a the value assumed above .267, and for e its value at 50°, upon the hypothesis that .967 is the latent heat of vapour at 212°, and that the sum of the sensible and latent heat is at every temperature within the range of observation, a constant quantity,

Equation (X.) becomes

$$f''=f'-.01135\ (t-t')\times\frac{p-f'}{30} \qquad \text{(XII.)}$$

and Equation (XI.) becomes

$$f''=f'-.01017\ (t-t')\times\frac{p-f'}{30} \qquad \text{(XIII.)}$$

In the above equations however, the value of the co-efficient (m) depends upon the assumed values of a and e, which Dr. Apjohn remarks are in all probability not yet known with great precision, and accordingly he proceeds to deduce values for the co-efficient m, in a general equation directly from experiment, in three separate ways as follows, viz.

1 By observations in air in reference to which t and t' had been accurately noted, the temperature of which was afterwards raised, and the observations repeated: the value of f'' is here constant for both observations.

2 By observations of t and t' in perfectly dry air where the value of f'' is of course=0.

3 By observations in air saturated with moisture where f'' is obtained from a simple observation of the temperature, and in which, after its temperature has been raised, the values t and t' were observed.

From the above experiments, using Anderson's Table of the elastic force of vapour, (Edinburgh Encyclopedia, Art. Hygrometer,) three separate values of m are obtained, viz.

1st Series	11 observations,	.. ..	$m =$	.01151
2nd do.	19 do.	.. ..	„	.01150
3rd do.	24 do.	.. ..	„	.01140

The arithmetical mean of which is $\frac{1}{87.18}$ or $m =$ .01147

The most probable value of the final mean as deduced by Professor LLOYD according to the calculus of probabilities from the means of all three values of m is .01145: but since in the second series the result is affected by the full tabular error in the value of f, whereas in the 1st and 3rd series, as m is expressed in terms of the difference of two values of f, the the tabular error will not sensibly affect the result, Professor LLOYD considers that the second series should be omitted, and combining the results of the 1st and 3rd series, by the same method obtains for the value of m .01140.

As my object, in the construction of the accompanying Tables, has been solely to enable observers to apply DR. APJOHN'S formula without being obliged to go through the labour of computing the value of f'' for each observation, I have, for the information of those who may not have had an opportunity of perusing his papers on the Dew-point, given in the above, a brief sketch of the steps by which the Hygrometric formula has been obtained, and shall now proceed to explain the manner in which the same has been applied to the computation of the accompanying Tables.

The equation which I have adopted is

$$f' = f'' - .01147\ (t - t') \times \frac{p - f'}{30}$$

in which the co-efficient employed, is the arithmetical mean of the three values of m given above.

The Table of the elastic force of vapour which I have used for giving the values of f', that enter into the computation of the second term in the right hand number of the equation, has been computed specially for this purpose by BIOT'S formula, "Traite de Physique 1816, Tome 1, p. 278."[5]

(5) This formula, which is deduced from experiments by DALTON, is as follows:
Log. Ff = Log. 30 + $a f + b f^2 + c f^3$.)

The numerical values of the co-efficients are

$a = -.00854117060$	Log.	$\bar{3}.9315174$
$b = -.00002081237$	„	$\bar{5}.3183216$
$c = +.000000005805$	„	$\bar{9}.7638438$

F being the number of degrees of Fahrenheit reckoned from 212°, positively below and negatively above that point.

This Table differs so little from that employed by DR. APJOHN, computed by ANDERSON from the experiments of DALTON and URE, that as this latter has been shewn by Professor LLOYD to be more probably accurate within the ordinary limits of observation, than either the Table of Kämtz, or that adopted by the Royal Society in the report of their Physical Committee, the employment of the Table which I have computed will not materially affect the resulting values of the dew-point, tension, or temperature.

By means of this Table, and with the three series of experiments given in DR. APJOHN's "Note," I have computed the following values of the co-efficient m, viz.

1st	series,	11	observations	.. .. $m =$	.01155
2nd	do.	19	do.	.. .. „	.01156
3rd	do.	24	do.	.. .. „	.01143

and adopting the same method as was pursued by Professor LLOYD referred to above, the most probable value of the final mean obtained by combining all three of the values of m is, ... .01150

The same value by ANDERSON's Tables (see above) .. .01145

The mean of which, being the co-efficient adopted, is .01147

Combining the means of the 1st and 3rd series, the most probable value of m is .. .. .01120.

The co-efficients actually employed in the computation of Table XXV, are those given in the Traite de Physique, viz.

$a = -.00854121972$	Log. =	$\bar{3}.9315199$
$b = -.00002081091$	„	$\bar{5}.3182910$
$c = +.00000000580$	„	$\bar{9}.7634280$

but this circumstance does not effect the resulting tensions, as given in the Table in which only 5 places of decimals are retained, for example. the tensions at 0° Faht. using each set of co-efficients are as follows:

with correct co-efficients	0.1991809
with BIOT's do.	0.1991839

The errors in BIOT's co-efficients were pointed out by a friend and re-investigated by me after the original of these Tables, which appeared in the CXLVII No. of the Journal of the Asiatic Society of Bengal had been printed, as also the mode of applying the present Table XXVI. for obtaining the correction of the quantity f'. In the Simla Observatory we had prior to this time been using manuscript Tables, in which the Tensions had been carried out for every tenth of an inch of Barometric pressure within our range, and it was found more convenient in consequence of the reduced number of figures in the correction $-f'$, to retain our original manuscript Table XXV, even after the receipt of the printed Tables.

Within the ordinary limits of the temperature of observation, and where the computed values of tension are carried out to more than three places of decimals, there is a considerable difference between the computed tensions and those obtained by experiment; but as the law, according to which the elastic force of aqueous vapour varies with variations of temperature is doubtless regular, while the differences exhibited in the following Table are very irregular, the sources of these discrepancies are probably to be found in the experiments.

The value of m deduced by the second series of DR. APJOHN'S experiments has not therefore been omitted, or rather the final values of the co-efficients, as obtained by a combination of three values of m has been adopted.

Table of the elastic force of aqueous vapour according to the experiments of ***DALTON,*** *and as computed by* ***BIOT'S*** *formula.*

TENSION OF VAPOUR.

Degrees Fahrenheit.	By Dalton's Experiment.	By Biot's Formula.	Computed value ± Experiment.
32.°	0.200	0.19917	−.00083
43.25	0.297	0.29582	−.00018
54.5	0.435	0.43481	−.00019
65.75	0.630	0.63239	+.00239
77.	0.910	0.91001	+.00001
88.25	1.290	1.29551	+.00551
99.5	1.820	1.82433	+.00433
110.75	2.540	2.54097	+.00097
122.	3.500	3.50003	+.00003

If the numerical values in the right hand number of the equation, were computed as it is written, it is evident that the value of f'' would be obtained by the simple subtraction of two tabular numbers; but since p and f' are both variable and the possible number of different readings of each within the limits of observation is very great, the former being recorded in inches and thousandths, the latter in degrees and tenths of Fahrenheit's Scale, the adoption of such an arrangement would not only

have very much enhanced the labour of computation, but would have swelled the Table to a very inconvenient size. Accordingly, as regards this term, the Table has been separated into two parts: the first part Table XXV, contains the values of $.01147\ (t-t')\times\frac{p}{30}$ which has been computed for all values of $(t-t')$ to tenths of a degree of Fahrenheit's Thermometer between 0° and 36°, and for a range of pressure between 14 and 32 inches, the full numerical values being given for whole inches of pressure and the proportional parts (which can be taken out to .001 of an inch) in separate columns. The second part, originally printed in a second Table, giving the corrections on account of the quantity $-f''$ omitted in the above computations, may be conveniently taken, as is shewn in the examples, from Table XXVI, which contains the elastic force of aqueous vapour for every degree and tenth part between −22° and + 212° of Fahrenheit's Thermometer.

It may at first sight appear that the Tables have been extended unnecessarily, both as regards their range and the numerical value of the entries; but the depressions at the Simla station have compelled their extension to values of $(t-t')=30°$ Faht., and if the computed numbers had been carried out in Table XXV, to less than 5 places of decimals, they would not have exhibited with sufficient precision, the variations of the elastic force of vapour due either to the tenth of a degree of Fahrenheit's Thermometer, or to several thousandths of an inch of pressure; this number of figures in the decimal places has therefore necessarily been retained; the range of temperature has been taken to include all possible contingencies.

A single example will suffice to render the use of the Tables familiar.

Rule. From p, the observed height of the Barometer, subtract f'' the number from Table XXVI, corresponding to the height of the wet bulb Thermometer, retaining as many places of decimals as are registered in p, at the same time write down the full value of f'' as shewn in the example.

Enter Table XXV, and take out the tabular number corresponding to $p-f''$ found above, and to the depression of the wet bulb Thermometer or $t-t'$. Subtract this number from the tabular value of f'', and the difference is the Tension f'' corresponding to the dew-point sought t'', which is obtained by the reverse process from Table XXVI.

Example I. Required the elastic force of vapour in the atmosphere and the temperature of the dew-point, the observed temperature of a dry

bulb thermometer being 49°.58 Faht., of a wet bulb thermometer 36°.65 Faht. and the height of the barometer 23.278 inches.

Here, $t-t'=49°.58-36.65 = 12°.93$

$p=$ observed height of Barometer, 23.278 ins.

f' from Table XXVI. for 36°.65 $-.235$ 23485

$p-f'=$ diff. 23.043

Number from Table XXV. for $p-f'=23.043$ ins. and $t-t'=12°.9$ } .. .. 23. ins. .11344

.04 20

.003 1

$(a)=.01147\ (t-t') \times \frac{p-f'}{30}$ = sum .. .. .. .11365

$f''=f'-.01147\ (t-t') \times \frac{p-f'}{30}$ = diff. .. .. .. .12119

which gives by Table XXVI, for t'' the temperature of the dew-point 18°.27 Faht.

By ANDERSON's Table, going through the computations for this example, we should have obtained $f''=0.12106$

and $t''=18°.23$ Faht.

When however the wet bulb Thermometer stands below 32° Faht., the quantity (a) in the foregoing example requires to be corrected for the difference of the co-efficient above and below the freezing point; it will suffice for all practical purposes to subtract from the number (a) obtained as above its 10 $\frac{1}{300}$th part, the remainder taken from the the tabular value of f' will give the tension of atmospheric vapour and deduced temperature of the dew-point as before: to prevent misapprehension an example is given.

Example II. Required the tension of the atmospheric vapour, and the deduced temperature of the dew-point, for the following observations of a dry thermometer 28°.5 Faht., wet bulb thermometer 23°.7 Faht. and barometer 23.104 ins.

In this example $t-t'=4°.8$

$p=$observed height of the barometer $=23.104$

f' from Table XXVI, for 23°.7 $-.148$ 14779

$p-f'=$ .. .. diff. 22.956

brought forward, ... 14779

Number from Table XXV, for $p-f'=22.956$ ins. and $t-t'=4°.8$

22. ins.		.04038
.9		165
.05		9
.006		1

$$(a) = .01147\ (t-t') \times \frac{p-f'}{30} = \text{sum}\ .04213$$

Correction, ... $a \div 10 = 421$

$a \div 300 = 14$ sum 435

(a) corrected for reading of wet bulb below 32°.= diff. .03778

$$f''=f'-.01028\ (t-t') \times \frac{p-f'}{30} \ldots\ldots\ldots\ldots\ldots .11001$$

which gives by Table XXVI, for t'' the temperature of the dew-point, ... 15°.64 Faht.

The computed value of f'', using the co-efficient for values of t' below 32° Fahrenheit, would have been .11003, and the difference in the temperature of the dew-point from the approximate value obtained above, is not equal to the 200th of a degree of Fahrenheit's Thermometer.

TABLE XXVII.

Of the elastic force of Aqueous Vapour, agreeably to the experiments of REGNAULT has been added as the most recent and probably the most accurate which has been published. The Table has been converted into English units from the original, page 605, Vol. IV, of TAYLOR's Scientific Memoirs, and expanded by interpolation as in Table XVIII; it may be used in the same manner as Table XXVI, for deducing the temperature of the dew-point from the observations of a dry and moist bulb Thermometer, by APJOHN's formula.

TABLES XXVIII, TO XXXII.

Comparisons of English and French weights and measures.

TABLE XXVIII.

Square measure.

TABLE XXIX.

Land measure.

TABLE XXX.

Troy weight and Grammes.

TABLE XXXI.

Avoirdupois weight and Grammes.

TABLE XXXII.

Measures of Capacity.

The application of these Tables is similar to that of Table XIV, and will be understood from the example given at page x, of the Introduction.

Explanation of the French Units.

The units of the modern system of French weights and measures, as established by law, are as follows.

I. Measures of Length.

Metre. This is the fundamental unit of weights and measures, and is equal to the ten millionth part of a quadrant of the terrestrial meridian.

II. Land measure.

Are. Is a square of ten metres side, or one hundred square metres.

III. Measures of Capacity:—for liquids and dry substances.

Litre. Is the tenth of a metre, cube.

IV. Measures of Solidity.

Stere. A metre cube.

V. Weights.

Gramme. Is the weight of the one hundreth of a metre cube, of distilled water, at its maximum density, *i. e.* at 4° of the Centigrade scale, being nearly 39° Fahrenheit.

Kilogramme. One thousand *grammes*,—the weight of the tenth of a metre cube, of distilled water, as above.

Quintal. One hundred *kilogrammes*, or one hundred thousand *grammes*.

Millier. One thousand *kilogrammes* or one million *grammes*.

Multiples of an unit, are expressed by prefixing to it the terms *Deca-* for 10, *Hecto-* for 100, *Kilo-* for 1000, *Myria-* for 10,000. *Sub-divisions* are denoted by perfixing *Deci-* for a tenth part, *Centi-* for one hundreth, *Milli-* for one thousandth. Thus, for example:

DECA-METRE.	is	ten metres.
HECTO-METRE,	,,	one hundred metres.
KILO-METRE,	,,	one thousand metres.
MYRIA-METRE.	,,	ten thousand metres.
DECI-METRE,	,,	one tenth part of a metre.
CENTI-METRE,	,,	one hundreth of a metre.
MILLI-METRE,	,,	one thousandth of a metre.

and so for other denominations.

TABLE XXXIII.

Logarithms of the co-efficients $1 + \frac{H}{F}$

This coefficient is employed for clearing the observations of a Magnet with unifilar suspension, from the effect of the Torsion force of the suspending thread, the ratio $\frac{H}{F}$ of the Torsion force of the thread or skein to the Magnetic directive force, is determined experimentally by turning the moveable arm of the Torsion circle, usually through an angle of either 90° or 180°, and observing the corresponding angle through which the Magnet is moved; the former angle is denoted by w the latter by u, and the Table gives both the numerical and logarithmic coefficient for the several values of u from 1′ to 60′ in each case where w is made 90° or 180°. Log. differences are also given for each minute by which intermediate numbers may be determined by proportion.

TABLE XXXIV.

Logarithms of the co-efficients of $1 + 2e\,(t - t_0)$.

The times of vibration of a suspended magnet are affected by alterations in its dimensions, produced by changes of temperature; the changes

are eliminated by means of the co-efficients in this Table, of which the following are the elements, viz.

t a standard temperature or that to which the observations are to be reduced,
t_1 the temperature (or mean) of the observations,
e the linear dilatation of steel for 1° Faht. = .0000068.

The Table consists of two parts: 1st, when the temperature of the observation is below the standard of reduction; in this case the times of vibration will be too *small*, the bar being shortened, and will therefore require to be increased: 2ndly, when the temperature of observation is greater than the standard, in which case the bar having lengthened, the times of vibration will be too *long*, and will require reduction; the arguments across the column at the head of the Table, point out which part is to be used.

The co-efficients are employed in correcting the times of vibration whether in observations of relative Horizontal Magnetic Intensity, as with HANSTEEN'S needles, or in the determination of the moment of inertia of the vibrating magnet in experiments for deducing the absolute Horizontal Force by the method of GAUSS.

The required number in Tables XXXIII, and XXXIV, being obtained by simple entry, examples of their use are not considered necessary.

Altitude.	Zenith Distance.	Mean Refraction.	Logarithm. Z.	Log. diff. for 1′ of Z. D.	Log. diff. for 1″ of Refrn.
° ′	° ′	′ ″			
90 00	0 00	0 00.00	0.0000		
89	1	01.02	0.0085		
88	2	02.04	0.3097	50	2953
87	3	03.06	0.4860	29	1728
86	4	04.08	0.6112	21	1227
85	5	05.11	0.7086	16	955
84	6	06.14	0.7882	13	773
83	7	07.17	0.8557	11	656
82	8	08.21	0.9144	10	570
81	9	09.25	0.9663	9	500
80	10	10.30	1.0129	8	448
79	11	0 11.35	1.0553	7	404
78	12	12.42	1.0941	7	366
77	13	13.49	1.1300	6	336
76	14	14.56	1.1634	6	309
75	15	15.66	1.1947	5	287
74	16	16.75	1.2241	5	267
73	17	17.86	1.2519	5	250
72	18	18.98	1.2784	4	237
71	19	20.11	1.3036	4	223
70	20	21.26	1.3277	4	210
69	21	0 22.42	1.3507	4	199
68	22	23.60	1.3729	4	188
67	23	24.80	1.3944	4	179
66	24	26.01	1.4151	3	171
65	25	27.24	1.4352	3	163
64	26	28.49	1.4547	3	156
63	27	29.76	1.4736	3	149
62	28	31.05	1.4921	3	143
61 30	28 30	31.71	1.5012	3	135
61	29	32.38	1.5102	3	134
60 30	29 30	33.05	1.5191	3	133
60	30	33.72	1.5279	3	131
59 30	30 30	0 34.40	1.5366	3	128
59	31	35.09	1.5452	3	125
58 30	31 30	35.79	1.5537	3	121
58	32	36.49	1.5622	3	121
57 30	32 30	37.20	1.5706	3	118
57	33	37.93	1.5790	3	117
56 30	33 30	38.66	1.5873	3	114
56	34	39.39	1.5955	3	112
55 30	34 30	40.14	1.6036	3	108
55	35	40.89	1.6116	3	107
54 30	35 30	0 41.65	1.6196	3	105
54	36	42.42	1.6276	3	104
53 30	36 30	43.21	1.6356	3	100
53	37	44.00	1.6435	3	100
52 30	37 30	44.80	1.6513	3	99
52	38	45.61	1.6591	3	96
51 30	38 30	46.43	1.6668	3	95
51	39	47.27	1.6746	3	93
50 30	39 30	48.12	1.6823	3	91
50	40	48.99	1.6901	3	89
49 30	40 30	0 49.87	1.6978	3	88
49	41	50.75	1.7055	3	87
48 30	41 30	51.66	1.7131	3	86
48	42	52.57	1.7207	3	84
47 30	42 30	53.49	1.7283	3	83
47	43	54.43	1.7358	3	81
46 30	43 30	55.38	1.7434	3	80
46	44	56.35	1.7510	3	78
46 00	44 00	0 56.35	1.75100		
45 30	44 30	57.35	1.75855	25	755
45	45	58.36	1.76611	25	741
44 30	45 30	59.39	1.77367	25	734
44	46	1 00.43	1.78123	25	727
43 30	46 30	01.49	1.78880	25	714
43	47	02.57	1.79637	25	701
42 30	47 30	03.67	1.80396	25	690
42	48	04.80	1.81155	25	672
41 45	48 15	1 05.37	1.81535	25	667
30	30	05.94	1.81915	25	667
15	45	06.52	1.82296	25	657
41 00	49 00	07.11	1.82678	25	647
45	15	07.70	1.83060	25	647
30	30	08.30	1.83442	25	637
15	45	08.91	1.83825	26	628
40 00	50 00	09.52	1.84208	26	628
45	15	1 10.13	1.84592	26	629
30	30	10.75	1.84976	26	619
15	45	11.38	1.85361	26	611
39 00	51 00	12.02	1.85747	26	604
45	15	12.66	1.86134	26	604
30	30	13.31	1.86521	26	595
15	45	13.97	1.86909	26	588
38 00	52 00	14.64	1.87298	26	581
45	15	1 15.31	1.87688	26	581
30	30	15.99	1.88079	26	575
15	45	16.68	1.88471	26	568
37 00	53 00	17.38	1.88863	26	561
45	15	18.08	1.89256	26	561
30	30	18.80	1.89650	26	555
15	45	19.51	1.90044	26	547
36 00	54 00	20.24	1.90440	26	542
45	15	1 20.98	1.90838	27	535
30	30	21.73	1.91237	27	531
15	45	22.48	1.91637	27	525
35 00	55 00	23.25	1.92038	27	520
45	15	24.03	1.92440	27	515
30	30	24.81	1.92843	27	516
15	45	25.60	1.93247	27	511
34 00	56 00	26.41	1.93653	27	501
45	15	1 27.22	1.94060	27	502
30	30	28.04	1.94469	27	499
15	45	28.88	1.94879	27	488
33 00	57 00	29.73	1.95291	27	485
45	15	30.59	1.95704	28	480
30	30	31.46	1.96119	28	477
15	45	32.34	1.96536	28	474
32 00	58 00	33.23	1.96955	28	471
45	15	1 34.14	1.97375	28	462
30	30	35.06	1.97797	28	460
15	45	35.99	1.98221	28	456
31 00	59 00	36.93	1.98646	28	452
45	15	37.89	1.99073	29	445
30	30	38.86	1.99502	29	442
15	45	39.85	1.99934	29	436
30 00	60 00	1 40.85	2.00368	29	434
45	15	41.86	2.00804	29	432
30	30	42.89	2.01242	29	425
15	45	43.94	2.01682	29	419
29 00	61 00	45.01	2.02124	29	413

Altitude.	Zenith Distance.	Mean Refraction.	Logarithm. Z.	Log. diff. for 1′ of Z. D.	Log. diff. for 1″ of Refrn.
° ′	° ′	′ ″			
29 00	61 00	1 45.01	2.02124		
50	10	45.73	2.02420	30	412
40	20	46.45	2.02717	30	411
30	30	47.19	2.03015	30	404
20	40	47.93	2.03315	30	404
10	50	48.68	2.03616	30	401
28 00	62 00	49.44	2.03918	30	398
50	10	1 50.20	2.04221	30	398
40	20	50.97	2.04526	31	396
30	30	51.76	2.04832	31	387
20	40	52.55	2.05138	31	387
10	50	53.35	2.05446	31	385
27 00	63 00	54.17	2.05755	31	377
50	10	1 54.99	2.06065	31	377
40	20	55.82	2.06377	31	377
30	30	56.66	2.06690	31	374
20	40	57.50	2.07004	31	373
10	50	58.35	2.07319	32	371
26 00	64 00	59.22	2.07635	32	363
50	10	2 00.10	2.07954	32	363
40	20	00.99	2.08274	32	360
30	30	01.89	2.08595	32	357
20	40	02.80	2.08918	32	355
10	50	03.72	2.09242	32	352
25 00	65 00	04.65	2.09567	33	350
50	10	2 05.59	2.09894	33	348
40	20	06.54	2.10223	33	346
30	30	07.51	2.10553	33	340
20	40	08.49	2.10885	33	339
10	50	09.48	2.11219	33	337
24 00	66 00	10.48	2.11555	34	336
50	10	2 11.50	2.11892	34	330
40	20	12.53	2.12230	34	328
30	30	13.57	2.12570	34	327
20	40	14.62	2.12912	34	326
10	50	15.69	2.13256	34	322
23 00	67 00	16.78	2.13602	35	317
50	10	2 17.88	2.13950	35	316
40	20	18.99	2.14300	35	315
30	30	20.12	2.14652	35	312
20	40	21.27	2.15006	35	308
10	50	22.43	2.15362	36	307
22 00	68 00	23.61	2.15720	36	303
50	10	2 24.81	2.16080	36	300
40	20	26.03	2.16442	36	297
30	30	27.26	2.16806	36	296
20	40	28.50	2.17172	37	295
10	50	29.76	2.17540	37	292
21 00	69 00	31.04	2.17911	37	290
55	05	2 31.69	2.18097	37	287
50	10	32.34	2.18284	37	287
45	15	33.00	2.18471	38	284
40	20	33.66	2.18659	38	284
35	25	34.33	2.18847	38	281
30	30	35.00	2.19036	38	281
25	35	2 35.68	2.19226	38	279
20	40	36.36	2.19416	38	279
15	45	37.05	2.19607	38	277
10	50	37.75	2.19799	38	275
05	55	38.45	2.19992	39	275
20 00	70 00	39.16	2.20185	39	272
20 00	70 00	2 39.16	2.20185		
55	05	39.87	2.20379	39	271
50	10	40.59	2.20573	39	271
45	15	41.31	2.20768	39	271
40	20	42.04	2.20963	39	271
35	25	42.78	2.21159	39	266
30	30	43.52	2.21356	39	266
25	35	2 44.26	2.21554	40	265
20	40	45.01	2.21752	40	265
15	45	45.77	2.21951	40	262
10	50	46.53	2.22150	40	262
05	55	47.30	2.22351	40	261
19 00	71 00	48.08	2.22552	40	259
55	05	2 48.86	2.22754	40	258
50	10	49.65	2.22956	40	256
45	15	50.45	2.23159	41	254
40	20	51.25	2.23363	41	254
35	25	52.06	2.23568	41	253
30	30	52.87	2.23773	41	253
25	35	2 53.70	2.23979	41	249
20	40	54.53	2.24186	41	249
15	45	55.37	2.24394	42	248
10	50	56.21	2.24603	42	248
05	55	57.06	2.24812	42	246
18 00	72 00	57.92	2.25022	42	244
55	05	2 58.79	2.25233	42	243
50	10	59.66	2.25445	42	243
45	15	3 00.54	2.25657	43	241
40	20	01.43	2.25870	43	239
35	25	02.33	2.26084	43	238
30	30	03.23	2.26299	43	238
25	35	3 04.14	2.26515	43	237
20	40	05.06	2.26732	43	236
15	45	05.99	2.26950	44	234
10	50	06.93	2.27168	44	233
05	55	07.87	2.27388	44	233
17 00	73 00	08.83	2.27608	44	228
55	05	3 09.80	2.27829	44	228
50	10	10.77	2.28051	44	227
45	15	11.75	2.28274	45	227
40	20	12.74	2.28498	45	225
35	25	13.74	2.28723	45	225
30	30	14.75	2.28948	45	223
25	35	3 15.77	2.29174	45	222
20	40	16.80	2.29402	46	221
15	45	17.83	2.29631	46	220
10	50	18.88	2.29860	46	220
05	55	19.94	2.30091	46	218
16 00	74 00	21.01	2.30323	46	217
55	05	3 22.09	2.30556	47	216
50	10	23.18	2.30789	47	214
45	15	24.28	2.31023	47	213
40	20	25.39	2.31259	47	213
35	25	26.52	2.31496	47	212
30	30	27.65	2.31734	48	210
25	35	3 28.79	2.31973	48	208
20	40	29.95	2.32213	48	207
15	45	31.12	2.32454	48	206
10	50	32.30	2.32696	48	205
05	55	33.49	2.32939	49	204
15 00	75 00	34.70	2.33184	49	203

Altitude.	Zenith Distance.	Mean Refraction.	Logarithm. Z.	Log. diff. for 1′ of Z. D.	Log. diff. for 1″ of Refrn.
° ′	° ′	′ ″			
15 00	75 00	3 31.79	2.33181		
55	05	35.92	2.33130	49	202
50	10	37.15	2.33077	49	201
45	15	38.39	2.33025	50	200
40	20	39.65	2.31174	50	197
35	25	40.93	2.31124	50	197
30	30	42.21	2.31075	50	196
25	35	3 43.52	2.31929	51	196
20	40	44.8[illegible]	2.35183	51	195
15	45	46.14	2.35138	51	193
10	50	47.48	2.35095	51	192
05	55	48.84	2.35053	52	190
14 00	76 00	50.21	2.36212	52	189
55	05	3 51.60	2.36173	52	188
50	10	53.00	2.36735	52	187
45	15	54.42	2.36998	53	185
40	20	55.85	2.37263	53	185
35	25	57.30	2.37529	53	183
30	30	58.76	2.37796	53	183
25	35	4 00.24	2.38064	54	181
20	40	01.74	2.38334	54	180
15	45	03.26	2.38605	54	179
10	50	04.79	2.38879	55	178
05	55	06.34	2.39154	55	177
13 00	77 00	07.91	2.39430	55	176
55	05	4 09.50	2.39708	56	175
50	10	11.11	2.39987	56	173
45	15	12.74	2.40268	56	172
40	20	14.39	2.40550	56	171
35	25	16.06	2.40834	57	171
30	30	17.75	2.41119	57	169
25	35	4 19.46	2.41406	57	168
20	40	21.19	2.41695	58	167
15	45	22.95	2.41986	58	165
10	50	24.72	2.42278	58	165
05	55	26.51	2.42572	59	164
12 00	78 00	28.33	2.42867	59	162
55	05	4 30.17	2.43164	59	161
50	10	32.01	2.43463	60	160
45	15	33.93	2.43764	60	159
40	20	35.81	2.44066	60	158
35	25	37.78	2.44370	61	157
30	30	39.75	2.44677	61	156
25	35	4 41.74	2.44985	62	155
20	40	43.76	2.45295	62	153
15	45	45.81	2.45608	63	153
10	50	47.89	2.45922	63	151
05	55	49.99	2.46238	63	151
11 00	79 00	52.12	2.46556	64	149
55	05	4 54.28	2.46876	64	148
50	10	56.47	2.47198	64	147
45	15	58.69	2.47522	65	146
40	20	5 00.94	2.47848	65	145
35	25	03.22	2.48176	66	144
30	30	05.54	2.48507	66	143
25	35	5 07.89	2.48840	67	142
20	40	10.28	2.49175	67	140
15	45	12.70	2.49513	68	140
10	50	15.16	2.49853	68	138
05	55	17.66	2.50196	69	137
10 00	80 00	20.19	2.50541	69	136

Altitude.	Zenith Distance.	Mean Refraction.	Logarithm. Z.	Log. diff. for 1′ of Z. D.	Log. diff. for 1″ of Refrn.
° ′	° ′	′ ″			
10 00	80 00	5 20.19	2.50541		
55	05	22.76	2.50887	69	135
50	10	25.36	2.51237	70	134
45	15	28.01	2.51589	70	133
40	20	30.70	2.51945	71	132
35	25	33.43	2.52300	71	131
30	30	36.20	2.52660	72	131
25	35	5 39.02	2.53022	72	128
20	40	41.88	2.53387	73	128
15	45	44.79	2.53755	74	127
10	50	47.74	2.54125	74	125
05	55	50.74	2.54498	75	124
9 00	81 00	53.79	2.54874	75	123
55	05	5 56.89	2.55253	76	122
50	10	6 00.04	2.55635	76	121
45	15	03.24	2.56019	77	120
40	20	06.50	2.56407	78	119
35	25	09.81	2.56798	78	118
30	30	13.18	2.57192	79	117
25	35	6 16.61	2.57589	79	116
20	40	20.09	2.57989	80	115
15	45	23.64	2.58393	81	114
10	50	27.26	2.58803	81	112
05	55	30.94	2.59210	82	111
8 00	82 00	34.68	2.59621	83	111
55	05	6 38.49	2.60041	83	109
50	10	42.37	2.60462	84	109
45	15	46.31	2.60885	85	108
40	20	50.33	2.61313	85	106
35	25	54.42	2.61741	86	105
30	30	58.59	2.62179	87	104
25	35	7 02.85	2.62618	88	103
20	40	07.19	2.63062	89	102
15	45	11.62	2.63509	89	101
10	50	16.13	2.63961	90	100
05	55	20.73	2.64417	91	99
7 00	83 00	25.42	2.64877	92	99
55	05	7 30.21	2.65341	93	97
50	10	35.09	2.65809	94	96
45	15	40.07	2.66282	95	95
40	20	45.15	2.66759	95	94
35	25	50.31	2.67241	96	93
30	30	55.61	2.67727	97	92
25	35	8 01.01	2.68218	98	91
20	40	06.55	2.68713	99	90
15	45	12.19	2.69213	100	89
10	50	17.95	2.69718	101	88
05	55	23.84	2.70229	102	87
6 00	84 00	29.86	2.70746	103	86
55	05	8 36.02	2.71267	104	85
50	10	42.31	2.71793	105	84
45	15	48.75	2.72325	106	83
40	20	55.33	2.72862	107	81
35	25	9 02.01	2.73405	109	81
30	30	08.96	2.73954	110	79
25	35	9 16.03	2.74509	111	79
20	40	23.25	2.75070	112	78
15	45	30.65	2.75637	113	77
10	50	38.23	2.76210	115	76
05	55	46.00	2.76790	116	75
5 00	85 00	53.96	2.77376	117	74

Altitude.	Zenith Distance.	Mean Refraction.	Logarithm. Z.	Log. diff. for 1′ of Z. D.	Log. diff. for 1′ of Refrn.
° ′	° ′	′ ″			
5 00	85 00	9 53.96	2.77376		
55	05	10 02.13	2.77969	119	73
50	10	10.52	2.78569	120	72
45	15	19.11	2.79176	121	71
40	20	27.90	2.79789	123	70
35	25	36.93	2.80409	124	69
30	30	46.21	2.81037	126	68
25	35	10 55.75	2.81673	127	67
20	40	11 05.55	2.82316	129	66
15	45	15.60	2.82967	130	65
10	50	25.90	2.83626	132	64
05	55	36.51	2.84293	133	63
4 00	86 00	47.43	2.84968	135	62
55	05	11 58.66	2.85652	137	61
50	10	12 10.21	2.86345	139	60
45	15	22.10	2.87046	141	59
40	20	34.34	2.87757	142	58
35	25	46.94	2.88476	144	57
30	30	12 59.92	2.89205	146	56
25	35	13 13.31	2.89944	148	55
20	40	27.11	2.90693	150	54
15	45	41.34	2.91452	152	53
10	50	55.99	2.92220	154	52
05	55	14 11.13	2.92999	156	51
3 00	87 00	26.76	2.93790	158	51
55	05	42.90	2.94591	160	50
50	10	59.54	2.95402	162	49
45	15	15 16.75	2.96225	165	48
40	20	34.55	2.97060	167	47
35	25	52.93	2.97906	169	46
30	30	16 11.95	2.98764	172	45
25	35	31.64	2.99635	174	44
20	40	52.03	3.00519	177	43
15	45	17 13.16	3.01417	180	43
10	50	35.06	3.02329	182	42
05	55	57.77	3.03254	185	41
2 00	88 00	18 21.33	3.04192	188	40
55	05	18 45.76	3.05144	190	39
50	10	19 11.07	3.06110	193	38
45	15	19 37.35	3.07091	196	37
40	20	20 04.68	3.08087	200	36
35	25	20 33.09	3.09099	202	36
30	30	21 02.60	3.10127	206	35
25	35	21 33.28	3.11170	209	34
20	40	22 05.22	3.12229	212	33
15	45	22 38.47	3.13305	215	32
10	50	23 13.11	3.14398	219	32
05	55	23 49.2	3.15509	222	31
1 00	89 00	24 26.8	3.16637	226	30
55	05	25 06.	3.17783	229	29
50	10	25 46.9	3.18947	233	28
45	15	26 29.6	3.20130	237	28
40	20	27 14.2	3.21331	240	27
35	25	28 00.8	3.22551	244	26
30	30	28 49.4	3.23789	248	25
25	35	29 40.2	3.25046	251	25
20	40	30 33.3	3.26323	255	24
15	45	31 28.9	3.27620	259	23
10	50	32 27.1	3.28938	264	23
05	55	33 28.1	3.30278	268	22
0 00	90 00	34 32.	3.31639	272	21

Altitude.	Zenith Distance.	THERMOMETER. t.	THERMOMETER. diff. for 1′ Z. D.	BAROMETER. b.	BAROMETER. diff. for 1′ Z. D.
° ′	° ′				
10 00	80 00	.03		.04	
9 00	81 00	.04		.05	
8 00	82 00	.05		.08	
30	82 30	.06		.10	
7 00	83 00	.07	.001	.11	.001
45	15	.08		.12	
30	30	.09		.14	
15	45	.09		.15	
6 00	84 00	.10		.16	.002
45	15	.11		.18	
30	30	.12		.20	
15	45	.13		.22	
5 00	85 00	.15	.002	.24	.003
50	10	.17		.27	
40	20	.18		.29	
30	30	.20		.32	
20	40	.21		.34	
10	50	.23		.37	
4 00	86 00	.24		.39	.004
50	10	.26	.003	.43	
40	20	.29		.47	
30	30	.31		.51	.005
20	40	.34		.57	
10	50	.36		.62	
3 00	87 00	.39	.004	.67	.008
55	05	.41		.71	
50	10	.43		.75	
45	15	.45		.79	
40	20	.47	.005	.83	
35	25	.50		.87	
30	30	.52		.91	.010
25	35	.55		.96	
20	40	.58		1.01	
15	45	.61		1.07	.012
10	50	.63	.006	1.13	
05	55	.66		1.19	
2 00	88 00	.69		1.24	.017
55	05	.74	.009	1.32	
50	10	.78		1.41	
45	15	.83		1.50	
40	20	.87		1.58	
35	25	.92		1.67	
30	30	.96	.011	1.75	.025
25	35	1.02		1.87	
20	40	1.07	.012	2.00	
15	45	1.13		2.12	
10	50	1.19	.013	2.24	
05	55	1.26		2.36	
1 00	89 00	1.32	.020	2.48	.043
55	05	1.42		2.70	
50	10	1.52		2.91	
45	15	1.62		3.13	
40	20	1.72		3.34	
35	25	1.82		3.56	
30	30	1.92		3.77	.058
25	35	2.06	.028	4.05	
20	40	2.20		4.34	.067
15	45	2.34		4.67	
10	50	2.48		5.00	
05	55				
00 00	90 00				

BAROMETER.

Height.	Logarithm	Diff. 0.1 Inch.	Height.	Logarithm.	Diff. 0.1 Inch.	Height.	Logarithm.	Diff. 0.1 Inch.
ins			ins			ins		
32.0	0.02803	136	26.0	9.93785	167	20.0	9.82391	218
31.9	0.02667	136	25.9	9.93618	168	19.9	9.82173	219
.8	0.02531	137	.8	9.93450	169	8	9.81954	220
.7	0.02394	137	.7	9.93281	169	7	9.81734	221
.6	0.02257	138	.6	9.93112	170	6	9.81513	222
.5	0.02119	138	.5	9.92942	171	5	9.81291	223
.4	0.01981	139	.4	9.92771	171	4	9.81068	224
.3	0.01842	139	.3	9.92600	172	3	9.80844	226
.2	0.01703	139	.2	9.92428	173	2	9.80618	227
.1	0.01564	140	.1	9.92255	173	1	9.80391	228
31.0	0.01424	140	25.0	9.92082	174	19.0	9.80163	229
30.9	0.01284	141	24.9	9.91908	175	18.9	9.79934	230
.8	0.01143	141	.8	9.91733	176	8	9.79704	232
.7	0.01002	142	.7	9.91557	176	7	9.79472	233
.6	0.00860	142	.6	9.91381	177	6	9.79239	234
.5	0.00718	143	.5	9.91204	177	5	9.79005	235
.4	0.00575	143	.4	9.91027	178	4	9.78770	237
.3	0.00432	143	.3	9.90849	180	3	9.78533	238
.2	0.00289	144	.2	9.90669	180	2	9.78295	239
.1	0.00145	145	.1	9.90489	181	1	9.78056	241
30.0	0.00000	145	24.0	9.90308	181	18.0	9.77815	242
29.9	9.99855	146	23.9	9.90127	181	17.9	9.77573	243
.8	9.99709	146	.8	9.89946	183	8	9.77330	245
.7	9.99563	146	.7	9.89763	184	7	9.77085	246
.6	9.99417	147	.6	9.89579	184	6	9.76839	247
.5	9.99270	147	.5	9.89395	186	5	9.76592	249
.4	9.99123	148	.4	9.89209	186	4	9.76343	251
.3	9.98975	149	.3	9.89023	186	3	9.76092	252
.2	9.98826	149	.2	9.88837	188	2	9.75840	253
.1	9.98677	149	.1	9.88649	189	1	9.75587	254
29.0	9.98528	150	23.0	9.88460	189	17.0	9.75333	256
28.9	9.98378	151	22.9	9.88271	190	16.9	9.75077	258
.8	9.98227	151	.8	9.88081	191	8	9.74819	260
.7	9.98076	152	.7	9.87890	191	7	9.74559	262
.6	9.97924	152	.6	9.87699	193	6	9.74297	262
.5	9.97772	152	.5	9.87506	193	5	9.74035	263
.4	9.97620	153	.4	9.87313	195	4	9.73772	265
.3	9.97467	154	.3	9.87118	195	3	9.73507	268
.2	9.97313	154	.2	9.86923	196	2	9.73239	269
.1	9.97159	155	.1	9.86727	197	1	9.72970	270
28.0	9.97004	156	22.0	9.86530	198	16.0	9.72700	272
27.9	9.96848	156	21.9	9.86332	198	15.9	9.72428	274
.8	9.96692	156	.8	9.86134	200	8	9.72154	276
.7	9.96536	157	.7	9.85934	201	7	9.71878	278
.6	9.96379	158	.6	9.85733	201	6	9.71600	279
.5	9.96221	158	.5	9.85532	203	5	9.71321	281
.4	9.96063	159	.4	9.85329	203	4	9.71040	283
.3	9.95904	159	.3	9.85126	205	3	9.70757	285
.2	9.95745	160	.2	9.84921	205	2	9.70472	287
.1	9.95585	161	.1	9.84716	206	1	9.70185	288
27.0	9.95424	161	21.0	9.84510	207	15.0	9.69897	291
26.9	9.95263	162	20.9	9.84303	209	14.9	9.69606	292
.8	9.95101	162	.8	9.84094	209	8	9.69314	294
.7	9.94939	163	.7	9.83885	210	7	9.69020	297
.6	9.94776	164	.6	9.83675	212	6	9.68723	298
.5	9.94612	164	.5	9.83463	212	5	9.68425	301
.4	9.94448	165	.4	9.83251	214	4	9.68124	303
.3	9.94283	165	.3	9.83037	214	3	9.67821	304
.2	9.94118	166	.2	9.82823	216	2	9.67517	307
.1	9.93952	167	.1	9.82607	216	1	9.67210	309
26.0	9.93785		20.0	9.82391		14.0	9.66901	

FAHRENHEIT'S THERMOMETER.

Temp.	Logarithm.	Diff. 1 Deg.	Temp.	Logarithm.	Diff. 1 Deg.
°			°		
10	0.03952	103	70	9.98140	91
11	0.03849	103	71	9.98049	91
12	0.03746	102	72	9.97958	91
13	0.03644	102	73	9.97867	90
14	0.03542	102	74	9.97777	91
15	0.03440	102	75	9.97686	90
16	0.03338	101	76	9.97596	90
17	0.03237	101	77	9.97506	90
18	0.03136	102	78	9.97416	90
19	0.03034	101	79	9.97326	89
20	0.02933	101	80	9.97237	89
21	0.02832	101	81	9.97148	90
22	0.02731	101	82	9.97058	89
23	0.02630	99	83	9.96969	89
24	0.02531	99	84	9.96880	89
25	0.02432	100	85	9.96791	88
26	0.02332	100	86	9.96703	88
27	0.02232	99	87	9.96615	88
28	0.02133	99	88	9.96527	87
29	0.02034	99	89	9.96440	88
30	0.01935	98	90	9.96352	87
31	0.01837	99	91	9.96265	88
32	0.01738	98	92	9.96177	88
33	0.01640	99	93	9.96089	87
34	0.01541	97	94	9.96002	88
35	0.01444	98	95	9.95914	87
36	0.01346	98	96	9.95827	87
37	0.01248	97	97	9.95740	87
38	0.01151	98	98	9.95653	86
39	0.01053	96	99	9.95567	87
40	0.00957	96	100	9.95480	86
41	0.00861	97	101	9.95394	87
42	0.00764	96	102	9.95307	86
43	0.00668	96	103	9.95221	86
44	0.00572	96	104	9.95135	85
45	0.00476	96	105	9.95050	85
46	0.00380	95	106	9.94965	85
47	0.00285	95	107	9.94880	86
48	0.00190	96	108	9.94794	85
49	0.00094	94	109	9.94709	84
50	0.00000	94	110	9.94625	85
51	9.99906	95	111	9.94540	85
52	9.99811	94	112	9.94455	84
53	9.99717	94	113	9.94371	84
54	9.99623	94	114	9.94287	84
55	9.99529	95	115	9.94203	84
56	9.99434	93	116	9.94119	84
57	9.99341	93	117	9.94035	84
58	9.99248	94	118	9.93951	83
59	9.99154	93	119	9.93868	83
60	9.99061	93	120	9.93785	84
61	9.98968	93	121	9.93701	83
62	9.98875	92	122	9.93618	83
63	9.98783	93	123	9.93535	83
64	9.98690	92	124	9.93452	82
65	9.98598	92	125	9.93370	82
66	9.98506	92	126	9.93288	83
67	9.98414	91	127	9.93205	82
68	9.98323	92	128	9.93123	82
69	9.98231	91	129	9.93041	83
70	9.98140		130	9.92958	

Hours of Mean Time.	Sidereal Time.	Minutes of Mean Time.	Sidereal Time.	Seconds of Mean Time.	Sidereal Time.	Decl. Seconds of Mean Time.	Sidereal Time.	Decl. Seconds of Mean Time.	Sidereal Time.
	h. m. s.		m. s.		s.		s.		s.
1	1 0 9.8565	1	1 0.1643	1	1.0027	0.01	0.01003	0.51	0.51140
2	2 0 19.7130	2	2 0.3286	2	2.0055	0.02	0.02006	0.52	0.52142
3	3 0 29.5694	3	3 0.4928	3	3.0082	0.03	0.03008	0.53	0.53145
4	4 0 39.4259	4	4 0.6571	4	4.0110	0.04	0.04011	0.54	0.54148
5	5 0 49.2824	5	5 0.8214	5	5.0137	0.05	0.05014	0.55	0.55151
6	6 0 59.1388	6	6 0.9857	6	6.0164	0.06	0.06016	0.56	0.56153
7	7 1 08.9953	7	7 1.1499	7	7.0192	0.07	0.07019	0.57	0.57156
8	8 1 18.8518	8	8 1.3142	8	8.0219	0.08	0.08022	0.58	0.58159
9	9 1 28.7083	9	9 1.4785	9	9.0246	0.09	0.09025	0.59	0.59162
10	10 1 38.5647	10	10 1.6428	10	10.0274	0.10	0.10027	0.60	0.60164
11	11 1 48.4212	11	11 1.8070	11	11.0301	0.11	0.11030	0.61	0.61167
12	12 1 58.2777	12	12 1.9713	12	12.0329	0.12	0.12033	0.62	0.62170
13	13 2 08.1342	13	13 2.1356	13	13.0356	0.13	0.13036	0.63	0.63173
14	14 2 17.9906	14	14 2.2998	14	14.0383	0.14	0.14038	0.64	0.64175
15	15 2 27.8471	15	15 2.4641	15	15.0411	0.15	0.15041	0.65	0.65178
16	16 2 37.7036	16	16 2.6284	16	16.0438	0.16	0.16044	0.66	0.66181
17	17 2 47.5600	17	17 2.7927	17	17.0465	0.17	0.17047	0.67	0.67183
18	18 2 57.4165	18	18 2.9569	18	18.0493	0.18	0.18049	0.68	0.68186
19	19 3 07.2730	19	19 3.1212	19	19.0520	0.19	0.19052	0.69	0.69189
20	20 3 17.1295	20	20 3.2855	20	20.0548	0.20	0.20055	0.70	0.70192
21	21 3 26.9859	21	21 3.4498	21	21.0575	0.21	0.21057	0.71	0.71194
22	22 3 36.8424	22	22 3.6140	22	22.0602	0.22	0.22060	0.72	0.72197
23	23 3 46.6989	23	23 3.7783	23	23.0630	0.23	0.23063	0.73	0.73200
24	24 3 56.5554	24	24 3.9426	24	24.0657	0.24	0.24066	0.74	0.74203
		25	25 4.1069	25	25.0685	0.25	0.25068	0.75	0.75205
		26	26 4.2711	26	26.0712	0.26	0.26071	0.76	0.76208
		27	27 4.4354	27	27.0739	0.27	0.27074	0.77	0.77211
		28	28 4.5997	28	28.0767	0.28	0.28077	0.78	0.78214
		29	29 4.7640	29	29.0794	0.29	0.29079	0.79	0.79216
		30	30 4.9282	30	30.0821	0.30	0.30082	0.80	0.80219
		31	31 5.0925	31	31.0849	0.31	0.31085	0.81	0.81222
		32	32 5.2568	32	32.0876	0.32	0.32088	0.82	0.82225
		33	33 5.4211	33	33.0904	0.33	0.33090	0.83	0.83227
		34	34 5.5853	34	34.0931	0.34	0.34093	0.84	0.84230
		35	35 5.7496	35	35.0958	0.35	0.35096	0.85	0.85233
		36	36 5.9139	36	36.0986	0.36	0.36099	0.86	0.86235
		37	37 6.0782	37	37.1013	0.37	0.37101	0.87	0.87238
		38	38 6.2424	38	38.1040	0.38	0.38104	0.88	0.88241
		39	39 6.4067	39	39.1068	0.39	0.39107	0.89	0.89244
		40	40 6.5710	40	40.1095	0.40	0.40110	0.90	0.90246
		41	41 6.7353	41	41.1123	0.41	0.41112	0.91	0.91249
		42	42 6.8995	42	42.1150	0.42	0.42115	0.92	0.92252
		43	43 7.0638	43	43.1177	0.43	0.43118	0.93	0.93255
		44	44 7.2281	44	44.1205	0.44	0.44120	0.94	0.94257
		45	45 7.3924	45	45.1232	0.45	0.45123	0.95	0.95260
		46	46 7.5566	46	46.1259	0.46	0.46126	0.96	0.96263
		47	47 7.7209	47	47.1287	0.47	0.47129	0.97	0.97266
		48	48 7.8852	48	48.1314	0.48	0.48131	0.98	0.98268
		49	49 8.0495	49	49.1342	0.49	0.49134	0.99	0.99271
		50	50 8.2137	50	50.1369	0.50	0.50137		
		51	51 8.3780	51	51.1396				
		52	52 8.5423	52	52.1424				
		53	53 8.7066	53	53.1451				
		54	54 8.8708	54	54.1479				
		55	55 9.0351	55	55.1506				
		56	56 9.1994	56	56.1533				
		57	57 9.3637	57	57.1561				
		58	58 9.5279	58	58.1588				
		59	59 9.6922	59	59.1615				
		60	60 9.8565	60	60.1643				

Hours of Sidereal Time.	Mean Time.	Minutes of Sidereal Time.	Mean Time.	Seconds of Sidereal Time.	Mean Time	Decl. Seeds. of Sidereal Time	Mean Time.	Decl. Seeds. of Sidereal Time.	Mean Time.
	h. m. s.		m. s.		s.		s.		s.
1	0 59 50.1704	1	0 59.8362	1	0.9973	0.01	0.00997	0.51	0.50861
2	1 59 40.3409	2	1 59.6723	2	1.9945	0.02	0.01995	0.52	0.51858
3	2 59 30.5113	3	2 59.5085	3	2.9918	0.03	0.02992	0.53	0.52855
4	3 59 20.6818	4	3 59.3447	4	3.9891	0.04	0.03989	0.54	0.53853
5	4 59 10.8522	5	4 59.1809	5	4.9864	0.05	0.04986	0.55	0.54850
6	5 59 01.0226	6	5 59.0170	6	5.9836	0.06	0.05984	0.56	0.55847
7	6 58 51.1931	7	6 58.8532	7	6.9809	0.07	0.06981	0.57	0.56844
8	7 58 41.3635	8	7 58.6894	8	7.9782	0.08	0.07978	0.58	0.57842
9	8 58 31.5340	9	8 58.5256	9	8.9754	0.09	0.08975	0.59	0.58839
10	9 58 21.7044	10	9 58.3617	10	9.9727	0.10	0.09973	0.60	0.59836
11	10 58 11.8748	11	10 58.1979	11	10.9700	0.11	0.10970	0.61	0.60833
12	11 58 02.0453	12	11 58.0341	12	11.9672	0.12	0.11967	0.62	0.61831
13	12 57 52.2157	13	12 57.8703	13	12.9645	0.13	0.12965	0.63	0.62828
14	13 57 42.3862	14	13 57.7064	14	13.9618	0.14	0.13962	0.64	0.63825
15	14 57 32.5566	15	14 57.5426	15	14.9591	0.15	0.14959	0.65	0.64823
16	15 57 22.7270	16	15 57.3788	16	15.9563	0.16	0.15956	0.66	0.65820
17	16 57 12.8975	17	16 57.2150	17	16.9536	0.17	0.16954	0.67	0.66817
18	17 57 03.0679	18	17 57.0511	18	17.9509	0.18	0.17951	0.68	0.67814
19	18 56 53.2384	19	18 56.8873	19	18.9481	0.19	0.18948	0.69	0.68812
20	19 56 43.4088	20	19 56.7235	20	19.9454	0.20	0.19945	0.70	0.69809
21	20 56 33.5792	21	20 56.5597	21	20.9427	0.21	0.20943	0.71	0.70806
22	21 56 23.7497	22	21 56.3958	22	21.9399	0.22	0.21940	0.72	0.71803
23	22 56 13.9201	23	22 56.2320	23	22.9372	0.23	0.22937	0.73	0.72801
24	23 56 04.0906	24	23 56.0682	24	23.9345	0.24	0.23934	0.74	0.73798
		25	24 55.9044	25	24.9318	0.25	0.24932	0.75	0.74795
		26	25 55.7405	26	25.9290	0.26	0.25929	0.76	0.75793
		27	26 55.5767	27	26.9263	0.27	0.26926	0.77	0.76790
		28	27 55.4129	28	27.9236	0.28	0.27924	0.78	0.77787
		29	28 55.2490	29	28.9208	0.29	0.28921	0.79	0.78784
		30	29 55.0852	30	29.9181	0.30	0.29918	0.80	0.79782
		31	30 54.9214	31	30.9154	0.31	0.30915	0.81	0.80779
		32	31 54.7576	32	31.9126	0.32	0.31913	0.82	0.81776
		33	32 54.5937	33	32.9099	0.33	0.32910	0.83	0.82773
		34	33 54.4299	34	33.9072	0.34	0.33907	0.84	0.83771
		35	34 54.2661	35	34.9045	0.35	0.34904	0.85	0.84768
		36	35 54.1023	36	35.9017	0.36	0.35902	0.86	0.85765
		37	36 53.9384	37	36.8990	0.37	0.36899	0.87	0.86762
		38	37 53.7746	38	37.8963	0.38	0.37896	0.88	0.87760
		39	38 53.6108	39	38.8935	0.39	0.38894	0.89	0.88757
		40	39 53.4470	40	39.8908	0.40	0.39891	0.90	0.89754
		41	40 53.2831	41	40.8881	0.41	0.40888	0.91	0.90752
		42	41 53.1193	42	41.8853	0.42	0.41885	0.92	0.91749
		43	42 52.9555	43	42.8826	0.43	0.42883	0.93	0.92746
		44	43 52.7917	44	43.8799	0.44	0.43880	0.94	0.93743
		45	44 52.6278	45	44.8772	0.45	0.44877	0.95	0.94741
		46	45 52.4640	46	45.8744	0.46	0.45874	0.96	0.95738
		47	46 52.3002	47	46.8717	0.47	0.46872	0.97	0.96735
		48	47 52.1364	48	47.8690	0.48	0.47869	0.98	0.97732
		49	48 51.9725	49	48.8662	0.49	0.48866	0.99	0.98730
		50	49 51.8087	50	49.8635	0.50	0.49864		
		51	50 51.6449	51	50.8608				
		52	51 51.4810	52	51.8580				
		53	52 51.3172	53	52.8553				
		54	53 51.1534	54	53.8526				
		55	54 50.9896	55	54.8499				
		56	55 50.8257	56	55.8471				
		57	56 50.6619	57	56.8444				
		58	57 50.4981	58	57.8417				
		59	58 50.3343	59	58.8389				
		60	59 50.1704	60	59.8362				

Space Deg.	Time Hours.	Space Deg.	Time Hours.	Space Deg.	Time Hours.	Space Deg.	Time Hours.	Space Deg.	Time Hours.	Space Deg.	Time Hours.	Min. of Time to Hours	Space Min.	Time Minutes and Seconds.	Space Secs.	Time Seconds and Decimals.
0	O	60	IV	120	VIII	180	XII	240	XVI	300	XX	0	0	0	0	0.000
1	..	61	..	121	..	181	..	241	..	301	..	4	1	4	1	0.067
2	..	62	..	122	..	182	..	242	..	302	..	8	2	8	2	0.133
3	..	63	..	123	..	183	..	243	..	303	..	12	3	12	3	0.200
4	..	64	..	124	..	184	..	244	..	304	..	16	4	16	4	0.267
5	..	65	..	125	..	185	..	245	..	305	..	20	5	20	5	0.333
6	..	66	..	126	..	186	..	246	..	306	..	24	6	24	6	0.400
7	..	67	..	127	..	187	..	247	..	307	..	28	7	28	7	0.467
8	..	68	..	128	..	188	..	248	..	308	..	32	8	32	8	0.533
9	..	69	..	129	..	189	..	249	..	309	..	36	9	36	9	0.600
10	..	70	..	130	..	190	..	250	..	310	..	40	10	40	10	0.667
11	..	71	..	131	..	191	..	251	..	311	..	44	11	44	11	0.733
12	..	72	..	132	..	192	..	252	..	312	..	48	12	48	12	0.800
13	..	73	..	133	..	193	..	253	..	313	..	52	13	52	13	0.867
14	..	74	..	134	..	194	..	254	..	314	..	56	14	56	14	0.933
15	I	75	V	135	IX	195	XIII	255	XVII	315	XXI	0	15	1 0	15	1.000
16	..	76	..	136	..	196	..	256	..	316	..	4	16	1 4	16	1.067
17	..	77	..	137	..	197	..	257	..	317	..	8	17	1 8	17	1.133
18	..	78	..	138	..	198	..	258	..	318	..	12	18	1 12	18	1.200
19	..	79	..	139	..	199	..	259	..	319	..	16	19	1 16	19	1.267
20	..	80	..	140	..	200	..	260	..	320	..	20	20	1 20	20	1.333
21	..	81	..	141	..	201	..	261	..	321	..	24	21	1 24	21	1.400
22	..	82	..	142	..	202	..	262	..	322	..	28	22	1 28	22	1.467
23	..	83	..	143	..	203	..	263	..	323	..	32	23	1 32	23	1.533
24	..	84	..	144	..	204	..	264	..	324	..	36	24	1 36	24	1.600
25	..	85	..	145	..	205	..	265	..	325	..	40	25	1 40	25	1.667
26	..	86	..	146	..	206	..	266	..	326	..	44	26	1 44	26	1.733
27	..	87	..	147	..	207	..	267	..	327	..	48	27	1 48	27	1.800
28	..	88	..	148	..	208	..	268	..	328	..	52	28	1 52	28	1.867
29	..	89	..	149	..	209	..	269	..	329	..	56	29	1 56	29	1.933
30	II	90	VI	150	X	210	XIV	270	XVIII	330	XXII	0	30	2 0	30	2.000
31	..	91	..	151	..	211	..	271	..	331	..	4	31	2 4	31	2.067
32	..	92	..	152	..	212	..	272	..	332	..	8	32	2 8	32	2.133
33	..	93	..	153	..	213	..	273	..	333	..	12	33	2 12	33	2.200
34	..	94	..	154	..	214	..	274	..	334	..	16	34	2 16	34	2.267
35	..	95	..	155	..	215	..	275	..	335	..	20	35	2 20	35	2.333
36	..	96	..	156	..	216	..	276	..	336	..	24	36	2 24	36	2.400
37	..	97	..	157	..	217	..	277	..	337	..	28	37	2 28	37	2.467
38	..	98	..	158	..	218	..	278	..	338	..	32	38	2 32	38	2.533
39	..	99	..	159	..	219	..	279	..	339	..	36	39	2 36	39	2.600
40	..	100	..	160	..	220	..	280	..	340	..	40	40	2 40	40	2.667
41	..	101	..	161	..	221	..	281	..	341	..	44	41	2 44	41	2.733
42	..	102	..	162	..	222	..	282	..	342	..	48	42	2 48	42	2.800
43	..	103	..	163	..	223	..	283	..	343	..	52	43	2 52	43	2.867
44	..	104	..	164	..	224	..	284	..	344	..	56	44	2 56	44	2.933
45	III	105	VII	165	XI	225	XV	285	XIX	345	XXIII	0	45	3 0	45	3.000
46	..	106	..	166	..	226	..	286	..	346	..	4	46	3 4	46	3.067
47	..	107	..	167	..	227	..	287	..	347	..	8	47	3 8	47	3.133
48	..	108	..	168	..	228	..	288	..	348	..	12	48	3 12	48	3.200
49	..	109	..	169	..	229	..	289	..	349	..	16	49	3 16	49	3.267
50	..	110	..	170	..	230	..	290	..	350	..	20	50	3 20	50	3.333
51	..	111	..	171	..	231	..	291	..	351	..	24	51	3 24	51	3.400
52	..	112	..	172	..	232	..	292	..	352	..	28	52	3 28	52	3.467
53	..	113	..	173	..	233	..	293	..	353	..	32	53	3 32	53	3.533
54	..	114	..	174	..	234	..	294	..	354	..	36	54	3 36	54	3.600
55	..	115	..	175	..	235	..	295	..	355	..	40	55	3 40	55	3.667
56	..	116	..	176	..	236	..	296	..	356	..	44	56	3 44	56	3.733
57	..	117	..	177	..	237	..	297	..	357	..	48	57	3 48	57	3.800
58	..	118	..	178	..	238	..	298	..	358	..	52	58	3 52	58	3.867
59	..	119	..	179	..	239	..	299	..	359	..	56	59	3 56	59	3.933

Time Hours.	Space Deg.	Min. or Sec.	Space D. M. M. S.	Time Dec. Sec.	Space S ec.	Time Dec. Sec.	Space Sec.
I	15	1	0 15	.01	.15	.51	7.65
II	30	2	0 30	.02	.30	.52	7.80
III	45	3	0 45	.03	.45	.53	7.95
IV	60	4	1 00	.04	.60	.54	8.10
V	75	5	1 15	.05	.75	.55	8.25
VI	90	6	1 30	.06	.90	.56	8.40
VII	105	7	1 45	.07	1.05	.57	8.55
VIII	120	8	2 00	.08	1.20	.58	8.70
IX	135	9	2 15	.09	1.35	.59	8.85
X	150	10	2 30	.10	1.50	.60	9.00
XI	165	11	2 45	.11	1.65	.61	9.15
XII	180	12	3 00	.12	1.80	.62	9.30
XIII	195	13	3 15	.13	1.95	.63	9.45
XIV	210	14	3 30	.14	2.10	.64	9.60
XV	225	15	3 45	.15	2.25	.65	9.75
XVI	240	16	4 00	.16	2.40	.66	9.90
XVII	255	17	4 15	.17	2.55	.67	10.05
XVIII	270	18	4 30	.18	2.70	.68	10.20
XIX	285	19	4 45	.19	2.85	.69	10.35
XX	300	20	5 00	.20	3.00	.70	10.50
XXI	315	21	5 15	.21	3.15	.71	10.65
XXII	330	22	5 30	.22	3.30	.72	10.80
XXIII	345	23	5 45	.23	3.45	.73	10.95
XXIV	360	24	6 00	.24	3.60	.74	11.10
		25	6 15	.25	3.75	.75	11.25
		26	6 30	.26	3.90	.76	11.40
		27	6 45	.27	4.05	.77	11.55
		28	7 00	.28	4.20	.78	11.70
		29	7 15	.29	4.35	.79	11.85
		30	7 30	.30	4.50	.80	12.00
		31	7 45	.31	4.65	.81	12.15
		32	8 00	.32	4.80	.82	12.30
		33	8 15	.33	4.95	.83	12.45
		34	8 30	.34	5.10	.84	12.60
		35	8 45	.35	5.25	.85	12.75
		36	9 00	.36	5.40	.86	12.90
		37	9 15	.37	5.55	.87	13.05
		38	9 30	.38	5.70	.88	13.20
		39	9 45	.39	5.85	.89	13.35
		40	10 00	.40	6.00	.90	13.50
		41	10 15	.41	6.15	.91	13.65
		42	10 30	.42	6.30	.92	13.80
		43	10 45	.43	6.45	.93	13.95
		44	11 00	.44	6.60	.94	14.10
		45	11 15	.45	6.75	.95	14.25
		46	11 30	.46	6.90	.96	14.40
		47	11 45	.47	7.05	.97	14.55
		48	12 00	.48	7.20	.98	14.70
		49	12 15	.49	7.35	.99	14.85
		50	12 30	.50	7.50	1.00	15.00
		51	12 45				
		52	13 00			.001	.015
		53	13 15			.002	.030
		54	13 30			.003	.045
		55	13 45			.004	.060
		56	14 00			.005	.075
		57	14 15			.006	.090
		58	14 30			.007	.105
		59	14 45			.008	.120
		60	15 00			.009	.135

Mean Time.	Parts of the Equator.
h	° ′ ″
1	15 2 27.847
2	30 4 55.694
3	45 7 23.541
4	60 9 51.388
5	75 12 19.235
6	90 14 47.081
7	105 17 14.928
8	120 19 42.775
9	135 22 10.622
10	150 24 38.469
11	165 27 6.316
12	180 29 34.163
13	195 32 2.010
14	210 34 29.857
15	225 36 57.703
16	240 39 25.550
17	255 41 53.397
18	270 44 21.244
19	285 46 49.091
20	300 49 16.938
21	315 51 44.784
22	330 54 12.631
23	345 56 40.478
24	360 59 8.325

Decls. of Mean Time.	Part of the Equator.
0.1	1.504
0.2	3.008
0.3	4.512
0.4	6.016
0.5	7.521
0.6	9.025
0.7	10.529
0.8	12.033
0.9	13.537
0.01	0.150
0.02	0.301
0.03	0.451
0.04	0.602
0.05	0.752
0.06	0.903
0.07	1.053
0.08	1.203
0.09	1.354
0.001	0.015
0.002	0.030
0.003	0.045
0.004	0.060
0.005	0.075
0.006	0.090
0.007	0.105
0.008	0.120
0.009	0.135

Mean Time.	Parts of the Equator.
m	° ′ ″
1	0 15 2.464
2	0 30 4.928
3	0 45 7.392
4	1 0 9.856
5	1 15 12.321
6	1 30 14.785
7	1 45 17.249
8	2 0 19.713
9	2 15 22.177
10	2 30 24.641
11	2 45 27.105
12	3 0 29.569
13	3 15 32.033
14	3 30 34.497
15	3 45 36.962
16	4 0 39.426
17	4 15 41.890
18	4 30 44.354
19	4 45 46.818
20	5 0 49.282
21	5 15 51.746
22	5 30 54.210
23	5 45 56.674
24	6 0 59.138
25	6 16 1.603
26	6 31 4.067
27	6 46 6.531
28	7 1 8.995
29	7 16 11.459
30	7 31 13.923
31	7 46 16.387
32	8 1 18.851
33	8 16 21.315
34	8 31 23.779
35	8 46 26.244
36	9 1 28.708
37	9 16 31.172
38	9 31 33.636
39	9 46 36.100
40	10 1 38.565
41	10 16 41.029
42	10 31 43.493
43	10 46 45.957
44	11 1 48.421
45	11 16 50.885
46	11 31 53.349
47	11 46 55.813
48	12 1 58.277
49	12 17 0.741
50	12 32 3.206
51	12 47 5.670
52	13 2 8.134
53	13 17 10.598
54	13 32 13.062
55	13 47 15.526
56	14 2 17.990
57	14 17 20.454
58	14 32 22.918
59	14 47 25.382
60	15 2 27.847

Mean Time.	Parts of the Equator.
s	′ ″
1	0 15.041
2	0 30.082
3	0 45.123
4	1 0.164
5	1 15.205
6	1 30.246
7	1 45.287
8	2 0.328
9	2 15.369
10	2 30.411
11	2 45.452
12	3 0.493
13	3 15.534
14	3 30.575
15	3 45.616
16	4 0.657
17	4 15.698
18	4 30.739
19	4 45.780
20	5 0.821
21	5 15.862
22	5 30.903
23	5 45.944
24	6 0.985
25	6 16.027
26	6 31.068
27	6 46.109
28	7 1.150
29	7 16.191
30	7 31.232
31	7 46.273
32	8 1.314
33	8 16.355
34	8 31.396
35	8 46.437
36	9 1.478
37	9 16.519
38	9 31.560
39	9 46.601
40	10 1.643
41	10 16.684
42	10 31.725
43	10 46.766
44	11 1.807
45	11 16.848
46	11 31.889
47	11 46.930
48	12 1.971
49	12 17.012
50	12 32.053
51	12 47.094
52	13 2.135
53	13 17.176
54	13 32.217
55	13 47.259
56	14 2.300
57	14 17.341
58	14 32.382
59	14 47.423
60	15 2.464

Rate.		1 Sec. daily.		2 Secs. daily.		3 Secs. daily.		4 Secs. daily.		5 Secs. daily.		6 Secs. daily.		7 Secs. daily.		8 Secs. daily.	
Hours.	Minutes	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.
1	1	.042	.001	.083	.001	.125	.002	.167	.003	.208	.003	.25	.004	.292	.005	.333	.006
2	2	.083	.001	.167	.003	.250	.004	.333	.006	.417	.007	.50	.008	.583	.010	.667	.011
3	3	.125	.002	.250	.004	.375	.006	.500	.008	.625	.010	.75	.012	.875	.015	1.000	.017
4	4	.167	.003	.333	.006	.500	.008	.667	.011	.833	.014	1.00	.017	1.167	.019	1.333	.022
5	5	.208	.003	.417	.007	.625	.010	.833	.014	1.042	.017	1.25	.021	1.458	.024	1.667	.028
6	6	.250	.004	.500	.008	.750	.012	1.000	.017	1.250	.021	1.50	.025	1.750	.029	2.000	.033
7	7	.291	.005	.583	.010	.875	.015	1.167	.019	1.458	.024	1.75	.029	2.042	.034	2.333	.039
8	8	.333	.006	.667	.011	1.000	.017	1.333	.022	1.667	.028	2.00	.033	2.333	.039	2.667	.044
9	9	.375	.006	.550	.012	1.125	.019	1.500	.025	1.875	.031	2.25	.038	2.625	.044	3.000	.050
10	10	.417	.007	.833	.014	1.250	.021	1.667	.028	2.083	.035	2.50	.042	2.917	.049	3.333	.056
11	11	.458	.008	.917	.015	1.375	.023	1.833	.031	2.291	.038	2.75	.046	3.208	.053	3.667	.061
12	12	.500	.008	1.000	.017	1.500	.025	2.000	.033	2.500	.042	3.00	.050	3.500	.058	4.000	.067
13	13	.542	009	1.083	.018	1.625	.027	2.167	.036	2.708	.045	3.25	.054	3.792	.063	4.333	.072
14	14	.583	.010	1.167	.019	1.750	.029	2.333	.039	2.917	.049	3.50	.058	4.083	.068	4.667	.078
15	15	.625	.010	1.250	.021	1.875	.031	2.500	.042	3.125	.053	3.75	.063	4.375	.073	5.000	.083
16	16	.667	.011	1.333	.022	2.000	.033	2.667	.044	3.333	.056	4.00	.067	4.667	.078	5.333	.089
17	17	.708	.012	1.417	.024	2.125	.035	2.833	.047	3.542	.059	4.25	.071	4.958	.083	5.667	.094
18	18	.750	.013	1.500	.025	2.250	.038	3.000	.050	3.750	.062	4.50	.075	5.250	.088	6.000	.100
19	19	.792	.013	1.583	.026	2.375	.040	3.167	.053	3.959	.065	4.75	.079	5.542	.092	6.333	.106
20	20	.833	.014	1.667	.028	2.500	.042	3.333	.056	4.167	.069	5.00	.083	5.833	.097	6.667	.111
21	21	.875	.015	1.750	.029	2.625	.044	3.500	.058	4.375	.073	5.25	.088	6.125	.102	7.000	.117
22	22	.917	.015	1.833	.031	2.750	.046	3.667	.061	4.583	.076	5.50	.092	6.416	.107	7.333	.122
23	23	.958	.016	1.917	.032	2.875	.048	3.833	.064	4.792	.080	5.75	.096	6.708	.112	7.667	.128
24	24	1.000	.017	2.000	.033	3.000	.050	4.000	.067	5.000	.083	6.00	.100	7.000	.117	8.000	.133
	25		.017		.035		.052		.069		.087		.104		.122		.139
	26		.018		.036		.054		.072		.090		.108		.126		.144
	27		.019		.038		.056		.075		.094		.112		.131		.150
	28		.019		.039		.058		.078		.097		.117		.136		.156
	29		.020		.040		.060		.081		.101		.121		.141		.161
	30		.021		.042		.063		.083		.104		.125		.146		.167
	31		.022		.043		.065		.086		.108		.129		.151		.172
	32		.022		.044		.067		.089		.111		.133		.156		.178
	33		.023		.046		.069		.092		.115		.138		.160		.183
	34		.024		.048		.071		.094		.118		.142		.165		.189
	35		.024		.049		.073		.097		.122		.146		.170		.194
	36		.025		.050		.075		.100		.125		.150		.175		.200
	37		.026		.051		.077		.103		.128		.154		.180		.206
	38		.026		.053		.079		.106		.132		.158		.185		.211
	39		.027		.054		.081		.108		.135		.163		.190		.217
	40		.028		.056		.083		.111		.139		.167		.194		.222
	41		.028		.057		.085		.114		.142		.171		.199		.228
	42		.029		.058		.088		.117		.146		.175		.204		.233
	43		.030		.060		.090		.119		.149		.179		.209		.239
	44		.031		.061		.092		.122		.153		.183		.214		.244
	45		.031		.063		.094		.125		.156		.188		.219		.250
	46		.032		.064		.096		.128		.160		.192		.223		.256
	47		.033		.065		.098		.130		.163		.196		.228		.261
	48		.033		.067		.100		.133		.167		.200		.233		.267
	49		.034		.068		.102		.136		.170		.204		.238		.272
	50		.035		.069		.104		.139		.174		.208		.243		.278
	51		.035		.071		.106		.142		.177		.213		.248		.283
	52		.036		.072		.108		.144		.181		.217		.253		.289
	53		.037		.074		.110		.147		.184		.221		.258		.294
	54		.038		.075		.113		.150		.187		.225		.263		.300
	55		.038		.076		.115		.153		.191		.229		.267		.306
	56		.039		.078		.117		.155		.194		.233		.272		.311
	57		.040		.079		.119		.158		.198		.238		.277		.317
	58		.040		.081		.121		.161		.201		.242		.282		.322
	59		.041		.082		.123		.164		.205		.246		.287		.328
	60		.042		.083		.125		.167		.208		.250		.292		.333

[illegible]	[illegible]	10 Secs. daily.		11 Secs. daily.		12 Secs. daily.		13 Secs. daily.		14 Secs. daily.		15 Secs. daily.		Rate.	
[illegible]	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Prop. part for Hours.	Prop. part for Min.	Minutes.	Hours.
[illegible]	.008	.417	.007	.458	.008	.500	.008	.542	.009	.583	.010	.625	.010	1	1
[illegible]	.015	.833	.014	.917	.015	1.000	.017	1.083	.019	1.167	.019	1.250	.021	2	2
[illegible]	.023	1.250	.021	1.375	.023	1.500	.025	1.625	.027	1.750	.029	1.875	.031	3	3
[illegible]	.031	1.667	.028	1.833	.031	2.000	.033	2.167	.036	2.333	.039	2.500	.042	4	4
[illegible]	.038	2.083	.035	2.292	.038	2.500	.042	2.708	.045	2.917	.049	3.125	.052	5	5
[illegible]	.046	2.500	.042	2.750	.046	3.000	.050	3.250	.054	3.500	.058	3.750	.063	6	6
[illegible]	.053	2.917	.049	3.209	.053	3.500	.058	3.792	.063	4.083	.068	4.375	.073	7	7
[illegible]	.061	3.333	.056	3.667	.061	4.000	.067	4.333	.072	4.667	.078	5.000	.083	8	8
[illegible]	.069	3.750	.062	4.125	.069	4.500	.075	4.875	.081	5.250	.087	5.625	.094	9	9
[illegible]	.076	4.167	.069	4.583	.076	5.000	.083	5.417	.090	5.833	.097	6.250	.104	10	10
[illegible]	.084	4.583	.076	5.042	.084	5.500	.092	5.958	.099	6.417	.107	6.875	.115	11	11
[illegible]	.092	5.000	.083	5.500	.092	6.000	.100	6.500	.108	7.000	.117	7.500	.125	12	12
[illegible]	.100	5.417	.090	5.958	.099	6.500	.108	7.042	.117	7.583	.126	8.125	.135	13	13
[illegible]	.108	5.833	.097	6.417	.107	7.000	.117	7.583	.126	8.167	.136	8.750	.146	14	14
[illegible]	.115	6.250	.104	6.875	.115	7.500	.125	8.125	.135	8.750	.146	9.375	.156	15	15
[illegible]	.123	6.667	.111	7.333	.122	8.000	.133	8.667	.144	9.333	.156	10.000	.167	16	16
[illegible]	.131	7.083	.118	7.792	.130	8.500	.142	9.208	.153	9.917	.165	10.625	.177	17	17
[illegible]	.139	7.500	.125	8.250	.138	9.000	.150	9.750	.163	10.500	.175	11.250	.188	18	18
[illegible]	.147	7.917	.132	8.708	.145	9.500	.158	10.292	.172	11.083	.185	11.875	.198	19	19
[illegible]	.154	8.333	.139	9.167	.153	10.000	.167	10.833	.181	11.667	.194	12.500	.208	20	20
[illegible]	.162	8.750	.146	9.624	.160	10.500	.175	11.375	.190	12.250	.204	13.125	.219	21	21
[illegible]	.170	9.167	.153	10.083	.168	11.000	.183	11.917	.199	12.833	.214	13.750	.229	22	22
[illegible]	.178	9.583	.160	10.542	.176	11.500	.192	12.458	.208	13.417	.224	14.375	.240	23	23
[illegible]	.185	10.000	.167	11.000	.183	12.000	.200	13.000	.217	14.000	.233	15.000	.250	24	24
	.193		.174		.191		.208		.226		.243		.260	25	
	.200		.181		.199		.217		.235		.253		.271	26	
	.208		.188		.206		.225		.244		.262		.281	27	
	.216		.194		.214		.233		.253		.272		.292	28	
	.223		.201		.222		.242		.262		.282		.302	29	
	.231		.208		.229		.250		.271		.292		.313	30	
	.239		.215		.237		.258		.280		.301		.323	31	
	.247		.222		.244		.267		.289		.311		.333	32	
	.254		.229		.252		.275		.298		.321		.344	33	
	.262		.236		.260		.283		.307		.331		.354	34	
	.270		.243		.267		.292		.316		.340		.365	35	
	.278		.250		.275		.300		.325		.350		.375	36	
	.285		.257		.283		.308		.334		.360		.385	37	
	.293		.264		.290		.317		.343		.369		.396	38	
	.301		.271		.298		.325		.352		.379		.406	39	
	.308		.278		.306		.333		.361		.389		.417	40	
	.316		.285		.313		.342		.370		.399		.427	41	
	.324		.292		.321		.350		.379		.408		.438	42	
	.331		.299		.328		.358		.388		.418		.448	43	
	.339		.306		.336		.367		.397		.428		.458	44	
	.347		.313		.344		.375		.406		.437		.469	45	
	.354		.319		.351		.383		.415		.447		.479	46	
	.362		.326		.359		.392		.424		.457		.490	47	
	.370		.333		.367		.400		.433		.467		.500	48	
	.377		.340		.374		.408		.442		.476		.510	49	
	.385		.347		.382		.417		.451		.486		.521	50	
	.393		.354		.390		.425		.460		.496		.531	51	
	.400		.361		.397		.433		.469		.506		.542	52	
	.408		.368		.405		.442		.478		.515		.552	53	
	.416		.375		.413		.450		.488		.525		.563	54	
	.424		.382		.420		.458		.497		.535		.573	55	
	.431		.389		.428		.467		.506		.544		.583	56	
	.439		.396		.435		.475		.515		.554		.594	57	
	.447		.403		.443		.483		.524		.564		.605	58	
	.454		.410		.451		.492		.533		.574		.615	59	
	.462		.417		.458		.500		.542		.583		.625	60	

Equivalents to FAHRENHEIT's Thermometer.

Deg. Faht.	Deg. Reaum.	Deg. Centigr.	Deg. Faht.	Deg. Reaum.	Deg. Centigr.	Deg. Faht.	Deg. Reaum.	Deg. Centigr.	Deg. Faht.	Deg. Reaum.	Deg. Centigr.
			50	8.	10.	110	34.67	43.33	170	61.33	76.67
.1	.044	.056	51	8.44	10.56	111	35.11	43.89	171	61.78	77.22
.2	.089	.111	52	8.89	11.11	112	35.56	44.44	172	62.22	77.78
.3	.133	.167	53	9.33	11.67	113	36.	45.	173	62.67	78.33
.4	.178	.222	54	9.78	12.22	114	36.44	45.56	174	63.11	78.89
.5	.222	.278	55	10.22	12.78	115	36.89	46.11	175	63.56	79.44
.6	.267	.333	56	10.67	13.33	116	37.33	46.67	176	64.	80.
.7	.311	.389	57	11.11	13.89	117	37.78	47.22	177	64.44	80.56
.8	.356	.444	58	11.56	14.44	118	38.22	47.78	178	64.89	81.11
.9	.400	.500	59	12.	15.	119	38.67	48.33	179	65.33	81.67
0	−14.22	−17.78	60	12.44	15.56	120	39.11	48.89	180	65.78	82.22
1	13.78	17.22	61	12.89	16.11	121	39.56	49.44	181	66.22	82.78
2	13.33	16.67	62	13.33	16.67	122	40.	50.	182	66.67	83.33
3	12.89	16.11	63	13.78	17.22	123	40.44	50.56	183	67.11	83.89
4	12.44	15.56	64	14.22	17.78	124	40.89	51.11	184	67.56	84.44
5	12.	15.	65	14.67	18.33	125	41.33	51.67	185	68.	85.
6	11.56	14.44	66	15.11	18.89	126	41.78	52.22	186	68.44	85.56
7	11.11	13.89	67	15.56	19.44	127	42.22	52.78	187	68.89	86.11
8	10.67	13.33	68	16.	20.	128	42.67	53.33	188	69.33	86.67
9	10.22	12.78	69	16.44	20.56	129	43.11	53.89	189	69.78	87.22
10	9.78	12.22	70	16.89	21.11	130	43.56	54.44	190	70.22	87.78
11	9.33	11.67	71	17.33	21.67	131	44.	55.	191	70.67	88.33
12	8.89	11.11	72	17.78	22.22	132	44.44	55.56	192	71.11	88.89
13	8.44	10.56	73	18.22	22.78	133	44.89	56.11	193	71.56	89.44
14	8.	10.	74	18.67	23.33	134	45.33	56.67	194	72.	90.
15	7.56	9.44	75	19.11	23.89	135	45.78	57.22	195	72.44	90.56
16	7.11	8.89	76	19.56	24.44	136	46.22	57.78	196	72.89	91.11
17	6.67	8.33	77	20.	25.	137	46.67	58.33	197	73.33	91.67
18	6.22	7.78	78	20.44	25.56	138	47.11	58.89	198	73.78	92.22
19	5.78	7.22	79	20.89	26.11	139	47.56	59.44	199	74.22	92.78
20	5.33	6.67	80	21.33	26.67	140	48.	60.	200	74.67	93.33
21	4.89	6.11	81	21.78	27.22	141	48.44	60.56	201	75.11	93.89
22	4.44	5.56	82	22.22	27.78	142	48.89	61.11	202	75.56	94.44
23	4.	5.	83	22.67	28.33	143	49.33	61.67	203	76.	95.
24	3.56	4.44	84	23.11	28.89	144	49.78	62.22	204	76.44	95.56
25	3.11	3.89	85	23.56	29.44	145	50.22	62.78	205	76.89	96.11
26	2.67	3.33	86	24.	30.	146	50.67	63.33	206	77.33	96.67
27	2.22	2.78	87	24.44	30.56	147	51.11	63.89	207	77.78	97.22
28	1.78	2.22	88	24.89	31.11	148	51.56	64.44	208	78.22	97.78
29	1.33	1.67	89	25.33	31.67	149	52.	65.	209	78.67	98.33
30	0.89	1.11	90	25.78	32.22	150	52.44	65.56	210	79.11	98.89
31	− 0.44	− 0.56	91	26.22	32.78	151	52.88	66.11	211	79.56	99.44
32	0.	0.	92	26.67	33.33	152	53.33	66.67	212	80.	100.
33	+ 0.44	+ 0.56	93	27.11	33.89	153	53.78	67.22	213	80.44	100.56
34	0.89	1.11	94	27.56	34.44	154	54 22	67.78	214	80.89	101.11
35	1.33	1.67	95	28.	35.	155	54.67	68.33	215	81.33	101.67
36	1.78	2.22	96	28.44	35.56	156	55.11	68.89	216	81.78	102.22
37	2.22	2.78	97	28.89	36.11	157	55.56	69.44	217	82.22	102.78
38	2.67	3.33	98	29.33	36.67	158	56.	70.	218	82.67	103.33
39	3.11	3.89	99	29.78	37.22	159	56.44	70.56	219	83.11	103.89
40	3.56	4.44	100	30.22	37.78	160	56.89	71.11	220	83.56	104.44
41	4.	5.	101	30.67	38.33	161	57.33	71.67	221	84.	105.
42	4.44	5.56	102	31.11	38.89	162	57.78	72.22	222	84.44	105.56
43	4.89	6.11	103	31.56	39.44	163	58.22	72.78	223	84.89	106.11
44	5.33	6.67	104	32.	40.	164	58.67	73.33	224	85.33	106.67
45	5.78	7.22	105	32.44	40.56	165	59.11	73.89	225	85.78	107.22
46	6.22	7.78	106	32.89	41.11	166	59.56	74.44	226	86.22	107.78
47	6.67	8.33	107	33.33	41.67	167	60.	75.	227	86.67	108.33
48	7.11	8.89	108	33.78	42.22	168	60.44	75.56	228	87.11	108.89
49	7.56	9.44	109	34.22	42.78	169	60.89	76.11	229	87.56	109.44
50	8.	10.	110	34.67	43.33	170	61.33	76.67	230	88.	110.

Equivalents to Reaumur's Thermometer.						Equivalents to Centigrade Thermometer.					
Deg. Reaum.	Deg. Faht.	Deg. Centigr.	Deg. Reaum.	Deg. Faht.	Deg. Centigr.	Deg. C.	Deg. Faht.	Deg. Reaum.	Deg. C.	Deg. Faht.	Deg. Reaum.
− 32	− 13.	− 25.	+ 30	99.5	+ 37.5	−20	− 4.	− 16.	+40	104.	+32.
−31	10.75	23.75	31	101.75	38.75	19	2.2	15.2	41	105.8	32.8
30	8.5	22.5	32	104.	40.	18	0.4	14.4	42	107.6	33.6
29	6.25	21.25	33	106.25	41.25	17	+ 1.4	13.6	43	109.4	34.4
28	4.	20.	34	108.5	42.5	16	3.2	12.8	44	111.2	35.2
27	− 1.75	18.75	35	110.75	43.75	15	5.	12.	45	113.	36.
26	− 0.5	17.5	36	113.	45.	14	6.8	11.2	46	114.8	36.8
25	2.75	16.25	37	115.25	46.25	13	8.6	10.4	47	116.6	37.6
24	5.	15.	38	117.5	47.5	12	10.4	9.6	48	118.4	38.4
23	7.25	13.75	39	119.75	48.75	11	12.2	8.8	49	120.2	39.2
22	9.5	12.5	40	122.	50.	10	14.	8.	50	122.	40.
21	11.75	11.25	41	124.25	51.25	9	15.8	7.2	51	123.8	40.8
20	14.	10.	42	126.5	52.5	8	17.6	6.4	52	125.6	41.6
19	16.25	8.75	43	128.75	53.75	7	19.4	5.6	53	127.4	42.4
18	18.5	7.5	44	131.	55.	6	21.2	4.8	54	129.2	43.2
17	20.75	6.25	45	133.25	56.25	5	23.	4.0	55	131.	44.
16	23.	5.	46	135.5	57.5	4	24.8	3.2	56	132.8	44.8
15	25.25	3.75	47	137.75	58.75	3	26.6	2.4	57	134.6	45.6
14	27.5	2.5	48	140.	60.	2	28.4	1.6	58	136.4	46.4
− 13	29.75	− 1.25	49	142.25	61.25	− 1	30.2	− 0.8	59	138.2	47.2
12	32.	0.0	50	144.5	62.5	0	32.	0.	60	140.	48.
− 11	34.25	+ 1.25	51	146.75	63.75	+ 1	33.8	+0.8	61	141.8	48.8
10	36.5	2.5	52	149.	65.	2	35.6	1.6	62	143.6	49.6
9	38.75	3.75	53	151.25	66.25	3	37.4	2.4	63	145.4	50.4
8	41.	5.	54	153.5	67.5	4	39.2	3.2	64	147.2	51.2
7	43.25	6.25	55	155.75	68.75	5	41.	4.	65	149.	52.
6	45.5	7.5	56	158.	70.	6	42.8	4.8	66	150.8	52.8
5	47.75	8.75	57	160.25	71.25	7	44.6	5.6	67	152.6	53.6
4	50.	10.	58	162.5	72.5	8	46.4	6.4	68	154.4	54.4
3	52.25	11.25	59	164.75	73.75	9	48.2	7.2	69	156.2	55.2
2	54.5	12.5	60	167.	75.	10	50.	8.	70	158.	56.
1	56.75	13.75	61	169.25	76.25	11	51.8	8.8	71	159.8	56.8
0	59.	15.	62	171.5	77.5	12	53.6	9.6	72	161.6	57.6
1	61.25	16.25	63	173.75	78.75	13	55.4	10.4	73	163.4	58.4
2	63.5	17.5	64	176.	80.	14	57.2	11.2	74	165.2	59.2
3	65.75	18.75	65	178.25	81.25	15	59.	12.	75	167.	60.
4	68.	20.	66	180.5	82.5	16	60.8	12.8	76	168.8	60.8
5	70.25	21.25	67	182.75	83.75	17	62.6	13.6	77	170.6	61.6
6	72.5	22.5	68	185.	85.	18	64.4	14.4	78	172.4	62.4
7	74.75	23.75	69	187.25	86.25	19	66.2	15.2	79	174.2	63.2
8	77.	25.	70	189.5	87.5	20	68.	16.	80	176.	64.
9	79.25	26.25	71	191.75	88.75	21	69.8	16.8	81	177.8	64.8
10	81.5	27.5	72	194.	90.	22	71.6	17.6	82	179.6	65.6
11	83.75	28.75	73	196.25	91.25	23	73.4	18.4	83	181.4	66.4
12	86.	30.	74	198.5	92.5	24	75.2	19.2	84	183.2	67.2
13	88.25	31.25	75	200.75	93.75	25	77.	20.	85	185.	68.
14	90.5	32.5	76	203.	95.	26	78.8	20.8	86	186.8	68.8
15	92.75	33.75	77	205.25	96.25	27	80.6	21.6	87	188.6	69.6
16	95.	35.	78	207.5	97.5	28	82.4	22.4	88	190.4	70.4
17	97.25	36.25	79	209.75	98.75	29	84.2	23.2	89	192.2	71.2
18	99.5	37.5	80	212.	100.	30	86.	24.	90	194.	72.
Reaum.	Faht.	Centigr.	Centigr.	Faht.	Reaum.	31	87.8	24.8	91	195.8	72.8
°.1	0°.225	.125	0°.1	0°.18	.080	32	89.6	25.6	92	197.6	73.6
.2	0 .450	.250	.2	0 .36	.160	33	91.4	26.4	93	199.4	74.4
.3	0 .675	.375	.3	0 .54	.240	34	93.2	27.2	94	201.2	75.2
.4	0 .900	.500	.4	0 .72	.320	35	95.	28.	95	203.	76.
.5	1 .125	.625	.5	0 .90	.400	36	96.8	28.8	96	204.8	76.8
.6	1 .350	.750	.6	1 .08	.480	37	98.6	29.6	97	206.6	77.6
.7	1 .575	.875	.7	1 .26	.560	38	100.4	30.4	98	208.4	78.4
.8	1 .800	1.000	.8	1 .44	.640	39	102.2	31.2	99	210.2	79.2
.9	2 .025	1.125	.9	1 .62	.720	40	104.	32.	100	212.	80.

Decimals. Decimals.

Millims. or Inches.	Millims. into Inches.	Inches into Millims.	Millims.	Millims. into Inches.	Metres or Feet.	Metres into Feet.	Feet into Metres.	Metres or Feet.	Metres into Feet.	Feet into Metres.
1	0.039	25.399	60	2.362	1	3.281	.305	60	196.854	18.288
2	0.079	50.799	61	2.402	2	6.562	.609	61	200.135	18.592
3	0.118	76.199	62	2.441	3	9.843	.914	62	203.416	18.897
4	0.157	101.598	63	2.480	4	13.124	1.219	63	206.697	19.202
5	0.197	126.998	64	2.519	5	16.404	1.524	64	209.977	19.507
6	0.236	152.397	65	2.559	6	19.685	1.829	65	213.258	19.812
7	0.276	177.797	66	2.598	7	22.965	2.133	66	216.539	20.116
8	0.315	203.196	67	2.638	8	26.247	2.438	67	219.820	20.421
9	0.354	228.596	68	2.677	9	29.528	2.743	68	223.101	20.726
10	0.393	253.995	69	2.717	10	32.809	3.048	69	226.382	21.031
11	0.433	279.395	70	2.756	11	36.089	3.353	70	229.663	21.336
12	0.472	304.794	71	2.795	12	39.371	3.657	71	232.944	21.640
13	0.512	330.194	72	2.835	13	42.652	3.962	72	236.225	21.945
14	0.551	355.593	73	2.874	14	45.933	4.267	73	239.506	22.250
15	0.591	380.993	74	2.913	15	49.213	4.572	74	242.786	22.555
16	0.630	406.393	75	2.953	16	52.494	4.877	75	246.067	22.859
17	0.669	431.792	76	2.992	17	55.775	5.181	76	249.348	23.164
18	0.709	457.192	77	3.031	18	59.056	5.486	77	252.629	23.469
19	0.748	482.591	78	3.071	19	62.337	5.791	78	255.910	23.774
20	0.787	507.991	79	3.110	20	65.618	6.096	79	259.191	24.079
21	0.827	533.391	80	3.150	21	68.899	6.401	80	262.472	24.384
22	0.866	558.790	81	3.189	22	72.180	6.705	81	265.753	24.688
23	0.905	584.189	82	3.228	23	75.461	7.010	82	269.034	24.993
24	0.945	609.589	83	3.268	24	78.741	7.315	83	272.315	25.298
25	0.984	634.988	84	3.307	25	82.022	7.620	84	275.595	25.603
26	1.024	660.388	85	3.346	26	85.303	7.925	85	278.876	25.907
27	1.063	685.787	86	3.386	27	88.584	8.229	86	282.157	26.212
28	1.102	711.187	87	3.425	28	91.865	8.534	87	285.438	26.517
29	1.142	736.587	88	3.465	29	95.146	8.839	88	288.719	26.822
30	1.181	761.986	89	3.504	30	98.427	9.144	89	292.000	27.127
31	1.220	787.386	90	3.543	31	101.708	9.449	90	295.281	27.431
32	1.260	812.785	91	3.583	32	104.989	9.753	91	298.562	27.736
33	1.299	838.185	92	3.622	33	108.270	10.058	92	301.843	28.041
34	1.339	863.584	93	3.661	34	111.550	10.363	93	305.124	28.346
35	1.378	888.984	94	3.701	35	114.831	10.668	94	308.404	28.651
36	1.417	914.383	95	3.740	36	118.112	10.973	95	311.685	28.955
37	1.457		96	3.779	37	121.393	11.277	96	314.966	29.260
38	1.496		97	3.819	38	124.674	11.582	97	318.247	29.565
39	1.535		98	3.859	39	127.955	11.887	98	321.528	29.870
40	1.575		99	3.898	40	131.236	12.192	99	324.809	30.175
41	1.614		100	3.937	41	134.517	12.496	100	328.090	30.480
42	1.654		200	7.874	42	137.798	12.801	200	656.180	60.959
43	1.693		300	11.811	43	141.079	13.106	300	984.270	91.438
44	1.732		400	15.748	44	144.359	13.411	400	1312.360	121.918
45	1.772		500	19.685	45	147.640	13.716	500	1640.450	152.397
46	1.811		600	23.622	46	150.921	14.020	600	1968.539	182.877
47	1.850		700	27.559	47	154.202	14.325	700	2296.629	213.356
48	1.890		800	31.497	48	157.483	14.630	800	2624.719	243.836
49	1.929		900	35.434	49	160.764	14.935	900	2952.809	274.315
50	1.968		1000	39.371	50	164.045	15.240	1000	3280.899	304.794
51	2.008				51	167.326	15.544	2000	6561.798	609.589
52	2.047				52	170.607	15.849	3000	9842.698	914.383
53	2.087				53	173.888	16.154	4000	13123.597	1219.178
54	2.126				54	177.168	16.459	5000	16404.496	1523.972
55	2.165				55	180.449	16.764	6000	19685.395	1828.767
56	2.205				56	183.730	17.068	7000	22966.294	2133.561
57	2.244				57	187.011	17.373	8000	26247.194	2438.356
58	2.283				58	190.292	17.678	9000	29528.093	2743.150
59	2.323				59	193.573	17.983	10000	32808.992	3047.945

Diamr. of Tube in Inches.	Capillarity. Inches of Mercury.	Diamr. of Tube in Inches.	Capillarity. Inches of Mercury.
0.100	0.140	0.225	0.048
0.102	0.137	0.227	0.048
0.104	0.134	0.230	0.047
0.106	0.132	0.232	0.046
0.108	0.129	0.235	0.045
0.110	0.126	0.237	0.045
0.112	0.124	0.240	0.044
0.114	0.121	0.242	0.043
0.116	0.119	0.245	0.042
0.118	0.116	0.247	0.042
0.120	0.114	0.250	0.041
0.122	0.112	0.252	0.040
0.124	0.110	0.255	0.039
0.126	0.108	0.257	0.039
0.128	0.106	0.260	0.038
0.130	0.104	0.265	0.037
0.132	0.102	0.270	0.036
0.134	0.100	0.275	0.035
0.136	0.098	0.280	0.033
0.138	0.096	0.285	0.032
0.140	0.094	0.290	0.031
0.142	0.092	0.295	0.030
0.144	0.091	0.300	0.029
0.146	0.089	0.305	0.028
0.148	0.088	0.310	0.027
0.150	0.086	0.315	0.026
0.152	0.085	0.320	0.026
0.154	0.083	0.325	0.025
0.156	0.082	0.330	0.024
0.158	0.080	0.335	0.023
0.160	0.079	0.34	0.023
0.162	0.078	0.35	0.021
0.164	0.077	0.36	0.020
0.166	0.075	0.37	0.019
0.168	0.074	0.38	0.017
0.170	0.073	0.39	0.016
0.172	0.072	0.40	0.015
0.174	0.071	0.41	0.014
0.176	0.070	0.42	0.013
0.178	0.069	0.43	0.012
0.180	0.068	0.44	0.011
0.182	0.067	0.45	0.010
0.184	0.066	0.46	0.009
0.186	0.065	0.47	0.009
0.188	0.064	0.48	0.008
0.190	0.063	0.49	0.008
0.192	0.062	0.50	0.007
0.194	0.061	0.51	0.007
0.196	0.060	0.52	0.006
0.198	0.059	0.53	0.006
0.200	0.058	0.54	0.005
0.202	0.057	0.55	0.005
0.205	0.056	0.56	0.005
0.207	0.055	0.57	0.004
0.210	0.054	0.58	0.004
0.212	0.053	0.60	0.004
0.215	0.052	0.62	0.003
0.217	0.051	0.64	0.003
0.220	0.050	0.66	0.003
0.222	0.049	0.68	0.002

TABLE XVI.

Rule.

Make D equal to $\log\beta - (\log\beta' + B)$ then will the logarithm of the difference of altitudes in English feet be equal to $A + C + \log D$

Thermometers in open air. $t+t'$	A	Thermometers to the Baromr^s. $\tau-\tau'$	B
		°	
40	4.76891	0	0.00000
42	4.76989	1	0.00004
44	4.77089	2	0.00009
46	4.77187	3	0.00013
48	4.77286	4	0.00017
50	4.77383	5	0.00022
52	4.77482	6	0.00026
54	4.77579	7	0.00030
56	4.77677	8	0.00035
58	4.77774	9	0.00039
60	4.77871	10	0.00043
62	4.77968	11	0.00048
64	4.78065	12	0.00052
66	4.78161	13	0.00056
68	4.78257	14	0.00061
70	4.78353	15	0.00065
72	4.78449	16	0.00069
74	4.78544	17	0.00074
76	4.78640	18	0.00078
78	4.78735	19	0.00083
80	4.78830	20	0.00087
82	4.78925	21	0.00091
84	4.79019	22	0.00096
86	4.79113	23	0.00100
88	4.79207	24	0.00104
90	4.79301	25	0.00109
92	4.79395	26	0.00113
94	4.79488	27	0.00117
96	4.79582	28	0.00122
98	4.79675	29	0.00126
100	4.79768	30	0.00130
102	4.79860		
104	4.79953		
106	4.80045		
108	4.80137		
110	4.80229		
112	4.80321		
114	4.80412		
116	4.80504		
118	4.80595		
120	4.80687		
122	4.80777		
124	4.80869		
126	4.80958		
128	4.81048		
130	4.81138		
132	4.81228		
134	4.81317		
136	4.81407		
138	4.81496		
140	4.81585		
142	4.81675		
144	4.81763		
146	4.81851		
148	4.81940		
150	4.82027		
152	4.82116		
154	4.82204		
156	4.82291		
158	4.82379		
160	4.82466		
162	4.82553		

Latitude of the place.

ϕ	C
°	
0	0.00117
5	0.00115
10	0.00110
15	0.00100
20	0.00090
25	0.00075
30	0.00058
35	0.00040
40	0.00020
45	0.00000
50	9.99980
55	9.99960
60	9.99942
65	9.99925
70	9.99910
75	9.99900
80	9.99890
85	9.99885
90	9.99883

Height of the Barometer in Inches, and Correction in Decimals of an Inch.

Temp. Faht.	13.5	14.	14.5	15.	15.5	16.	16.5	17.	17.5	18.	18.5	19.	Temp. Faht.
−10°	+.047	+.049	+.050	+.052	+.054	+.056	+.057	+.059	+.061	+.062	.064	+.066	− 10
9	.046	.047	.049	.051	.052	.054	.056	.057	.059	.061	.063	.064	9
8	.044	.046	.048	.049	.051	.053	.054	.056	.058	.059	.061	.063	8
7	.043	.045	.046	.048	.050	.051	.053	.054	.056	.058	.059	.061	7
6	.042	.044	.045	.047	.048	.050	.051	.053	.054	.056	.058	.059	6
5	.041	.042	.044	.045	.047	.048	.050	.051	.051	.054	.056	.057	5
4	.040	.041	.043	.044	.045	.047	.048	.050	.050	.053	.054	.056	4
3	.038	.040	.041	.043	.044	.045	.047	.048	.048	.051	.053	.054	3
2	.037	.039	.040	.041	.043	.044	.045	.047	.047	.050	.051	.052	2
− 1	.036	.037	.039	.040	.041	.043	.044	.045	.045	.048	.049	.050	− 1
0	.035	.036	.037	.039	.040	.042	.042	.044	.045	.046	.048	.049	0
+ 1	.034	.035	.036	.037	.038	.041	.041	.042	.043	.045	.046	.047	+ 1
2	.032	.033	.035	.036	.037	.038	.039	.041	.042	.043	.044	.045	2
3	.031	.032	.033	.035	.036	.037	.038	.039	.040	.041	.043	.044	3
4	.030	.031	.032	.033	.034	.035	.036	.038	.039	.040	.041	.042	4
5	.029	.030	.031	.032	.033	.034	.035	.036	.037	.038	.039	.040	5
6	.027	.028	.030	.030	.031	.033	.034	.035	.036	.037	.038	.039	6
7	.026	.027	.028	.029	.030	.031	.032	.033	.034	.035	.036	.037	7
8	.025	.026	.027	.028	.029	.030	.031	.031	.032	.033	.034	.035	8
9	.024	.025	.026	.026	.027	.028	.029	.030	.031	.032	.032	.033	9
10	.023	.023	.024	.025	.026	.027	.028	.028	.029	.030	.031	.032	10
11	.022	.022	.023	.024	.025	.025	.026	.027	.028	.029	.029	.030	11
12	.020	.021	.022	.023	.024	.024	.025	.025	.026	.027	.028	.028	12
13	.019	.020	.021	.021	.023	.023	.023	.024	.025	.025	.026	.027	13
14	.018	.019	.019	.020	.021	.021	.022	.022	.023	.024	.024	.025	14
15	.017	.017	.018	.019	.020	.020	.021	.021	.022	.022	.023	.023	15
16	.016	.016	.017	.017	.018	.018	.019	.019	.020	.021	.021	.022	16
17	.015	.015	.016	.016	.017	.017	.018	.018	.019	.019	.019	.020	17
18	.014	.014	.015	.015	.016	.016	.016	.016	.017	.017	.018	.018	18
19	.013	.013	.013	.013	.014	.014	.015	.015	.015	.016	.016	.016	19
20	.011	.012	.012	.012	.013	.013	.013	.014	.014	.014	.015	.015	20
21	.009	.010	.010	.010	.010	.011	.011	.012	.012	.012	.013	.013	21
22	.008	.008	.009	.009	.009	.010	.010	.010	.010	.011	.011	.011	22
23	.007	.007	.007	.008	.008	.008	.008	.009	.009	.009	.010	.010	23
24	.006	.006	.006	.006	.006	.007	.007	.007	.007	.008	.008	.008	24
25	.004	.005	.005	.005	.005	.005	.005	.006	.006	.005	.006	.006	25
26	.003	.003	.003	.004	.004	.004	.004	.004	.004	.004	.001	.005	26
27	.002	.002	.002	.002	.002	.002	.002	.003	.003	.003	.003	.003	27
28	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	28
29	−.000	−.000	−.000	−.000	−.000	−.000	−.000	−.000	−.000	−.001	−.001	−.001	29
30	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	30
31	.003	.003	.003	.003	.003	.003	.003	.004	.004	.004	.004	.004	31
32	.004	.004	.004	.004	.005	.005	.005	.005	.005	.005	.005	.006	32
33	.005	.005	.006	.006	.006	.006	.006	.007	.007	.007	.007	.007	33
34	.006	.007	.007	.007	.007	.008	.008	.008	.008	.009	.009	.009	34
35	.008	.008	.008	.008	.009	.009	.009	.010	.010	.010	.010	.011	35
36	.009	.009	.009	.009	.010	.010	.011	.011	.011	.012	.012	.012	36
37	.010	.010	.011	.011	.012	.012	.012	.013	.013	.013	.014	.014	37
38	.011	.012	.012	.012	.013	.013	.014	.014	.015	.015	.016	.017	38
39	.012	.013	.013	.013	.014	.015	.015	.016	.016	.017	.017	.019	39
40	.014	.014	.015	.015	.016	.016	.017	.017	.018	.018	.019	.019	40
41	.015	.015	.016	.016	.017	.018	.018	.019	.019	.020	.020	.021	41
42	.016	.017	.017	.018	.018	.019	.020	.020	.021	.021	.022	.023	42
43	.017	.018	.019	.019	.020	.020	.021	.022	.022	.023	.024	.024	43
44	.018	.019	.020	.021	.021	.022	.023	.023	.024	.025	.025	.026	44
45	.020	.020	.021	.022	.023	.023	.024	.025	.025	.026	.027	.028	45
46	.021	.022	.022	.023	.024	.025	.025	.026	.027	.028	.029	.029	46
47	.022	.023	.024	.025	.025	.026	.027	.028	.029	.029	.030	.031	47
48	.023	.024	.025	.026	.027	.028	.028	.029	.030	.031	.032	.033	48
49	.024	.025	.026	.027	.028	.029	.030	.031	.032	.033	.033	.034	49
50	.026	.027	.028	.029	.029	.030	.031	.032	.033	.034	.034	.036	50

Height of the Barometer in Inches, and Correction in Decimals of an Inch.

Temp. Faht.	13.5	14.	14.5	15.	15.5	16.	16.5	17.	17.5	18.	18.5	19.	Temp. Faht.
[illegible]	−.026	−.027	−.028	−.029	−.029	−.030	−.031	−.032	−.033	−.034	−.035	−.036	50°
[illegible]	.027	.028	.029	.030	.031	.032	.033	.034	.035	.036	.037	.038	51
[illegible]	.028	.029	.030	.031	.032	.033	.034	.035	.036	.037	.038	.040	52
[illegible]	.029	.030	.031	.033	.034	.035	.036	.037	.038	.039	.040	.041	53
[illegible]	.030	.032	.033	.034	.035	.036	.037	.038	.039	.041	.042	.043	54
[illegible]	.031	.033	.034	.035	.036	.038	.039	.040	.041	.042	.043	.045	55
[illegible]	.033	.034	.035	.037	.038	.039	.040	.041	.043	.044	.045	.046	56
[illegible]	.034	.035	.037	.038	.039	.040	.042	.043	.044	.045	.047	.048	57
[illegible]	.035	.037	.038	.039	.041	.042	.043	.044	.046	.047	.048	.050	58
[illegible]	.036	.038	.039	.041	.042	.044	.045	.046	.047	.049	.050	.051	59
[illegible]	.038	.039	.040	.042	.043	.045	.046	.047	.049	.050	.052	.053	60
[illegible]	.039	.040	.042	.043	.045	.046	.047	.049	.051	.052	.053	.055	61
[illegible]	.040	.042	.043	.045	.046	.047	.049	.050	.052	.053	.055	.056	62
[illegible]	.041	.043	.044	.046	.047	.049	.050	.052	.053	.055	.057	.058	63
[illegible]	.042	.044	.046	.047	.049	.050	.052	.053	.055	.057	.058	.060	64
[illegible]	.044	.045	.047	.049	.050	.052	.053	.055	.057	.058	.060	.061	65
[illegible]	.045	.047	.048	.050	.052	.053	.055	.056	.058	.060	.061	.063	66
[illegible]	.046	.048	.049	.051	.053	.055	.056	.058	.060	.061	.063	.065	67
[illegible]	.047	.049	.051	.053	.054	.056	.058	.059	.061	.063	.065	.067	68
[illegible]	.048	.050	.052	.054	.056	.057	.059	.061	.063	.065	.066	.068	69
[illegible]	.050	.052	.053	.055	.057	.059	.061	.063	.064	.066	.068	.070	70
[illegible]	.051	.053	.055	.057	.058	.060	.062	.064	.066	.068	.070	.072	71
[illegible]	.052	.054	.056	.058	.060	.062	.064	.066	.068	.069	.071	.073	72
[illegible]	.053	.055	.057	.059	.061	.063	.065	.067	.069	.071	.073	.075	73
[illegible]	.054	.056	.058	.061	.063	.065	.067	.069	.071	.073	.075	.077	74
[illegible]	.056	.058	.060	.062	.064	.066	.068	.070	.072	.074	.076	.078	75
[illegible]	.057	.059	.061	.063	.065	.068	.069	.072	.074	.076	.078	.080	76
[illegible]	.058	.060	.062	.065	.067	.069	.071	.073	.075	.077	.080	.082	77
[illegible]	.059	.061	.064	.066	.068	.070	.072	.075	.077	.079	.081	.083	78
[illegible]	.060	.063	.065	.067	.069	.072	.074	.076	.078	.081	.083	.085	79
[illegible]	.062	.064	.066	.068	.071	.073	.075	.078	.080	.082	.084	.087	80
[illegible]	.063	.065	.067	.070	.072	.074	.077	.079	.081	.084	.086	.088	81
[illegible]	.064	.066	.069	.071	.074	.076	.078	.081	.083	.085	.088	.090	82
[illegible]	.065	.068	.070	.072	.075	.077	.080	.082	.085	.087	.089	.092	83
[illegible]	.066	.069	.071	.074	.076	.079	.081	.084	.086	.089	.091	.093	84
[illegible]	.068	.070	.073	.075	.078	.080	.083	.085	.088	.090	.093	.095	85
[illegible]	.069	.071	.074	.076	.079	.082	.084	.087	.089	.092	.094	.097	86
[illegible]	.070	.073	.075	.078	.080	.083	.086	.088	.091	.093	.096	.099	87
[illegible]	.071	.074	.076	.079	.082	.084	.087	.090	.092	.095	.098	.100	88
[illegible]	.072	.075	.078	.080	.083	.086	.088	.091	.094	.097	.099	.102	89
[illegible]	.074	.076	.079	.082	.084	.087	.090	.093	.095	.098	.101	.104	90
[illegible]	.075	.077	.080	.083	.086	.089	.091	.094	.097	.100	.102	.105	91
[illegible]	.076	.079	.082	.084	.087	.090	.093	.095	.098	.101	.104	.107	92
[illegible]	.077	.080	.083	.086	.089	.091	.094	.097	.100	.103	.106	.109	93
[illegible]	.078	.081	.084	.087	.090	.093	.096	.098	.101	.104	.107	.110	94
[illegible]	.080	.082	.085	.088	.091	.094	.097	.100	.103	.106	.109	.112	95
[illegible]	.081	.084	.087	.090	.093	.096	.099	.101	.105	.108	.111	.114	96
[illegible]	.082	.085	.088	.091	.094	.097	.100	.103	.106	.109	.112	.115	97
[illegible]	.083	.086	.089	.092	.095	.098	.102	.104	.108	.111	.114	.117	98
[illegible]	.084	.087	.091	.094	.097	.100	.103	.106	.109	.112	.116	.119	99
[illegible]	.085	.089	.092	.095	.098	.101	.104	.108	.111	.114	.117	.120	100
[illegible]	.087	.090	.093	.096	.100	.103	.106	.109	.112	.116	.119	.122	101
[illegible]	.088	.091	.094	.098	.101	.104	.107	.111	.114	.117	.120	.124	102
[illegible]	.089	.092	.096	.099	.102	.106	.109	.112	.115	.119	.122	.125	103
[illegible]	.090	.094	.097	.100	.104	.107	.110	.114	.117	.120	.124	.127	104
[illegible]	.091	.095	.098	.102	.105	.108	.112	.115	.119	.122	.125	.129	105
[illegible]	.093	.096	.100	.103	.106	.110	.113	.117	.120	.124	.127	.130	106
[illegible]	.094	.097	.101	.104	.108	.111	.115	.118	.122	.125	.129	.132	107
[illegible]	.095	.099	.102	.106	.109	.113	.116	.120	.123	.127	.130	.134	108
[illegible]	.096	.100	.103	.107	.110	.114	.118	.121	.125	.128	.132	.135	109
[illegible]	.097	.101	.105	.108	.112	.115	.119	.123	.126	.130	.133	.137	110

Height of the Barometer in Inches, and Correction in Decimals of an Inch.

Temp. Faht.	19.5	20.	20.5	21.	21.5	22.	22.5	23.	23.5	24.	24.5	25.	Temp. Faht.
−10°	+.068	+.069	+.070	+.073	+.075	+.076	+.078	+.080	+.082	+.083	+.085	+.087	−10°
9	.066	.068	.069	.071	.073	.074	.076	.078	.079	.081	.083	.085	9
8	.064	.066	.068	.069	.071	.072	.074	.076	.077	.079	.081	.082	8
7	.062	.064	.066	.067	.069	.070	.072	.074	.075	.077	.078	.080	7
6	.061	.062	.064	.065	.067	.068	.070	.072	.073	.075	.076	.078	6
5	.059	.060	.062	.063	.065	.066	.068	.070	.071	.073	.074	.076	5
4	.057	.059	.060	.062	.063	.065	.066	.067	.069	.070	.072	.073	4
3	.055	.057	.058	.060	.061	.063	.064	.065	.067	.068	.070	.071	3
2	.054	.055	.056	.058	.059	.061	.062	.063	.065	.066	.067	.069	2
− 1	.052	.053	.055	.056	.057	.059	.060	.061	.063	.064	.065	.067	− 1
0	.050	.051	.053	.054	.055	.056	.058	.059	.060	.061	.063	.064	0
+ 1	.048	.049	.051	.052	.053	.054	.056	.057	.058	.059	.061	.062	+ 1
2	.047	.048	.049	.050	.051	.052	.054	.055	.056	.057	.058	.060	2
3	.044	.046	.047	.048	.049	.050	.052	.053	.054	.055	.056	.057	3
4	.043	.044	.045	.046	.047	.048	.050	.051	.052	.053	.054	.055	4
5	.041	.042	.043	.044	.045	.046	.048	.049	.050	.051	.052	.053	5
6	.040	.040	.042	.042	.044	.044	.046	.047	.048	.049	.050	.051	6
7	.038	.039	.040	.041	.042	.042	.044	.044	.046	.046	.047	.048	7
8	.036	.037	.038	.039	.040	.041	.041	.042	.043	.044	.045	.046	8
9	.034	.035	.036	.037	.038	.039	.039	.040	.041	.042	.043	.044	9
10	.033	.033	.034	.035	.036	.037	.037	.038	.039	.040	.041	.042	10
11	.031	.031	.032	.033	.034	.035	.035	.036	.037	.038	.039	.039	11
12	.029	.030	.030	.031	.032	.033	.033	.034	.035	.036	.036	.037	12
13	.027	.028	.029	.029	.030	.031	.031	.032	.033	.033	.034	.035	13
14	.025	.026	.027	.027	.028	.029	.029	.030	.031	.031	.032	.033	14
15	.024	.024	.025	.026	.026	.027	.027	.028	.029	.029	.030	.030	15
16	.022	.022	.023	.024	.024	.025	.025	.026	.026	.027	.028	.028	16
17	.020	.021	.021	.022	.022	.023	.023	.024	.024	.025	.025	.026	17
18	.019	.019	.019	.020	.020	.021	.021	.022	.022	.023	.023	.024	18
19	.017	.017	.018	.018	.018	.019	.019	.020	.020	.021	.021	.021	19
20	.015	.015	.016	.016	.016	.017	.017	.018	.018	.018	.019	.019	20
21	.013	.014	.014	.014	.015	.015	.015	.015	.016	.016	.017	.017	21
22	.012	.012	.012	.012	.013	.013	.013	.013	.014	.014	.014	.015	22
23	.010	.010	.010	.010	.011	.011	.011	011	.012	.012	.012	.012	23
24	.008	.008	.008	.009	.009	.009	.009	.009	.010	.010	.010	.010	24
25	.006	.006	.007	.007	.007	.007	.007	.007	.007	.008	.008	.008	25
26	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.006	.005	26
27	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	27
28	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	28
29	−.001	−.001	−.001	−.001	−.001	−.001	−.001	−.001	−.001	−.001	−.001	−.001	29
30	.002	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	30
31	.004	.005	.005	.005	.005	.005	.005	.005	.005	.005	.006	.006	31
32	.006	.006	.006	.007	.007	.007	.007	.007	.007	.008	.008	.008	32
33	.008	.008	.008	.008	.009	.009	.009	.009	.010	.010	.010	.010	33
34	.009	.010	.010	.010	.011	.011	.011	.011	.012	.012	.012	.012	34
35	.010	.012	.012	.012	.013	.013	.013	.013	.014	.014	.014	.015	35
36	.012	.013	.014	.014	.014	.015	.015	.016	.016	.016	.017	.017	36
37	.014	.015	.016	.016	.016	.017	.017	.018	.018	.018	.019	.019	37
38	.016	.017	.017	.018	.018	.019	.019	.020	.020	.020	.021	.021	38
39	.018	.019	.019	.020	.020	.021	.021	.022	.022	.023	.023	.024	39
40	.020	.021	.021	.022	.022	.023	.023	.024	.024	.025	.025	.026	40
41	.021	.022	.023	.024	.024	.025	.025	.026	.026	.027	.027	.028	41
42	.023	.024	.025	.025	.026	.027	.027	.028	.028	.029	.030	.030	42
43	.025	.026	.027	.027	.028	.029	.029	.030	.031	.031	.032	.032	43
44	.027	.028	.029	.029	.030	.031	.031	.032	.033	.033	.034	.035	44
45	.028	.030	.030	.031	.032	.033	.033	.034	.035	.035	.036	.037	45
46	.030	.031	.032	.033	.034	.035	.035	.036	.037	.038	.038	.039	46
47	.032	.033	.034	.035	.036	.036	.037	.038	.039	.040	.041	.041	47
48	.034	.035	.036	.037	.038	.038	.039	.040	.041	.042	.043	.044	48
49	.035	.037	.038	.039	.040	.040	.041	.042	.043	.044	.045	.046	49
50	.037	.038	.039	.040	.041	.042	.043	.044	.045	.046	.047	.048	50

Height of the Barometer in Inches, and Correction in Decimals of an Inch.

Temp. Faht.	19.5	20.	20.5	21.	21.5	22.	22.5	23.	23.5	24.	24.5	25.	Temp. Faht.
50°	−.037	−.038	−.039	−.040	−.041	−.042	−.043	−.044	−.045	−.046	−.047	−.048	50°
51	.039	.040	.041	.042	.043	.044	.045	.046	.047	.048	.049	.050	51
52	.041	.042	.043	.044	.045	.046	.047	.048	.049	.050	.052	.053	52
53	.042	.044	.045	.046	.047	.048	.049	.050	.052	.053	.054	.055	53
54	.044	.046	.047	.048	.049	.050	.051	.052	.054	.055	.056	.057	54
55	.046	.047	.049	.050	.051	.052	.053	.055	.056	.057	.058	.059	55
56	.047	.049	.050	.052	.053	.054	.055	.057	.058	.059	.060	.061	56
57	.049	.051	.052	.054	.055	.056	.057	.059	.060	.061	.062	.064	57
58	.051	.053	.054	.055	.057	.058	.059	.061	.062	.063	.065	.066	58
59	.053	.055	.056	.057	.059	.060	.061	.063	.064	.065	.067	.068	59
60	.054	.056	.058	.059	.061	.062	.063	.065	.066	.068	.069	.070	60
61	.056	.058	.060	.061	.062	.064	.065	.067	.068	.070	.071	.073	61
62	.058	.060	.061	.063	.064	.066	.067	.069	.070	.072	.073	.075	62
63	.060	.062	.063	.065	.066	.068	.069	.071	.072	.074	.076	.077	63
64	.061	.063	.065	.067	.068	.070	.071	.073	.075	.076	.078	.079	64
65	.063	.065	.067	.068	.070	.072	.073	.075	.077	.078	.080	.082	65
66	.065	.067	.069	.070	.072	.074	.075	.077	.079	.080	.082	.084	66
67	.066	.069	.071	.072	.074	.076	.077	.079	.081	.083	.084	.086	67
68	.068	.071	.072	.074	.076	.078	.079	.081	.083	.085	.086	.088	68
69	.070	.072	.074	.076	.078	.080	.081	.083	.085	.087	.089	.090	69
70	.072	.074	.076	.078	.080	.082	.083	.085	.087	.089	.091	.093	70
71	.073	.076	.078	.080	.082	.083	.085	.087	.089	.091	.093	.095	71
72	.075	.078	.080	.082	.084	.085	.087	.089	.091	.093	.095	.097	72
73	.077	.079	.081	.083	.085	.087	.089	.091	.093	.095	.097	.099	73
74	.079	.081	.083	.085	.087	.089	.091	.093	.095	.098	.099	.102	74
75	.080	.083	.085	.087	.089	.091	.093	.095	.098	.100	.102	.104	75
76	.082	.085	.087	.089	.091	.093	.095	.097	.100	.102	.104	.106	76
77	.084	.087	.089	.091	.093	.095	.097	.100	.102	.104	.106	.108	77
78	.086	.088	.091	.093	.095	.097	.099	.102	.104	.106	.108	.110	78
79	.087	.090	.092	.095	.097	.099	.101	.104	.106	.108	.110	.113	79
80	.089	.092	.094	.096	.099	.101	.103	.106	.108	.110	.113	.115	80
81	.091	.094	.096	.098	.101	.103	.105	.108	.110	.112	.115	.117	81
82	.092	.095	.098	.100	.103	.105	.107	.110	.112	.114	.117	.119	82
83	.094	.097	.100	.102	.104	.107	.109	.112	.114	.117	.119	.121	83
84	.096	.099	.101	.104	.106	.109	.111	.114	.116	.119	.121	.124	84
85	.098	.101	.103	.106	.108	.111	.113	.116	.118	.121	.123	.126	85
86	.099	.102	.105	.108	.110	.114	.115	.118	.120	.123	.126	.128	86
87	.101	.104	.107	.109	.112	.115	.117	.120	.123	.125	.128	.130	87
88	.103	.106	.109	.111	.114	.117	.119	.122	.125	.127	.130	.133	88
89	.105	.108	.111	.113	.116	.119	.121	.124	.127	.129	.132	.135	89
90	.106	.109	.112	.115	.118	.121	.123	.126	.129	.131	.134	.137	90
91	.108	.111	.114	.117	.120	.122	.125	.128	.131	.134	.136	.139	91
92	.110	.113	.116	.119	.122	.125	.127	.130	.133	.136	.139	.141	92
93	.111	.115	.118	.121	.124	.126	.129	.132	.135	.138	.141	.144	93
94	.113	.117	.120	.122	.125	.128	.131	.134	.137	.140	.143	.146	94
95	.115	.118	.121	.124	.127	.130	.133	.136	.139	.142	.145	.148	95
96	.117	.120	.123	.126	.129	.132	.135	.138	.141	.144	.147	.150	96
97	.118	.122	.125	.128	.131	.134	.137	.140	.143	.146	.149	.152	97
98	.120	.124	.127	.130	.133	.136	.139	.142	.145	.148	.152	.155	98
99	.122	.125	.129	.132	.135	.138	.141	.144	.147	.151	.154	.157	99
100	.123	.127	.130	.134	.137	.140	.143	.146	.150	.153	.156	.159	100
101	.125	.128	.132	.136	.139	.141	.145	.148	.152	.156	.158	.161	101
102	.127	.130	.134	.138	.141	.143	.147	.150	.154	.158	.161	.163	102
103	.129	.132	.136	.140	.143	.145	.149	.152	.156	.160	.163	.166	103
104	.130	.135	.138	.141	.144	.147	.151	.154	.158	.162	.165	.168	104
105	.132	.137	.139	.143	.146	.149	.153	.156	.160	.164	.167	.170	105
106	.134	.139	.142	.145	.148	.151	.155	.158	.162	.166	.169	.172	106
107	.136	.141	.143	.147	.150	.153	.157	.160	.164	.168	.171	.174	107
108	.137	.142	.145	.149	.152	.155	.159	.162	.166	.170	.174	.177	108
109	.139	.144	.147	.151	.154	.157	.161	.164	.168	.173	.176	.179	109
110	.141	.145	.149	.153	.156	159	.163	.167	.171	.175	.178	.181	110

Height of the Barometer in Inches, and Correction in Decimals of an Inch.

Temp. Faht.	25.5	26.	26.5	27.	27.5	28.	28.5	29.	29.5	30.	30.5	31.	Temp. Faht.
−10°	+.088	+.090	+.092	+.094	+.095	+.097	+.099	+.101	+.102	+.104	+.106	+.108	−10°
9	.086	.088	.090	.091	.093	.095	.096	.098	.100	.101	.103	.105	9
8	.084	.086	.087	.089	.091	.092	.094	.095	.097	.099	.100	.102	8
7	.082	.083	.085	.086	.088	.090	.091	.093	.094	.096	.098	.099	7
6	.079	.081	.082	.084	.086	.087	.089	.090	.092	.093	.095	.096	6
5	.077	.079	.080	.082	.083	.085	.086	.088	.089	.091	.092	.094	5
4	.075	.076	.078	.079	.081	.082	.084	.085	.087	.087	.089	.091	4
3	.072	.074	.075	.076	.078	.080	.081	.082	.084	.085	.087	.088	3
2	.070	.072	.073	.074	.076	.077	.079	.080	.081	.083	.084	.085	2
− 1	.068	.069	.071	.071	.073	.075	.076	.077	.079	.080	.081	.083	− 1
0	.065	.067	.068	.069	.071	.072	.073	.074	.076	.077	.078	.080	0
+ 1	.063	.064	.065	.067	.068	.069	.071	.072	.073	.074	.076	.077	+ 1
2	.061	.062	.063	.064	.066	.067	.068	.069	.070	.072	.073	.074	2
3	.059	.060	.061	.062	.063	.064	.065	.067	.068	.069	.070	.071	3
4	.056	.057	.058	.059	.061	.062	.063	.064	.065	.066	.067	.068	4
5	.054	.055	.056	.057	.058	.059	.060	.061	.062	.063	.065	.066	5
6	.052	.053	.054	.055	.056	.057	.058	.059	.060	.061	.062	.063	6
7	.049	.050	.051	.052	.053	.054	.055	.056	.057	.058	.059	.060	7
8	.047	.048	.049	.050	.051	.052	.053	.054	.054	.055	.056	.057	8
9	.045	.046	.046	.047	.048	.049	.050	.051	.052	.053	.054	.054	9
10	.042	.043	.044	.045	.046	.047	.047	.048	.049	.050	.051	.052	10
11	.040	.041	.042	.042	.043	.044	.045	.046	.046	.047	.048	.049	11
12	.038	.039	.039	.040	.041	.042	.042	.043	.044	.045	.045	.046	12
13	.036	.036	.037	.038	.038	.039	.040	.040	.041	.042	.043	.043	13
14	.033	.034	.035	.035	.036	.037	.037	.038	.038	.039	.040	.040	14
15	.031	.032	.032	.033	.033	.034	.035	.035	.036	.036	.037	.038	15
16	.029	.029	.030	.030	.031	.032	.032	.033	.033	.034	.034	.035	16
17	.026	.027	.027	.028	.028	.029	.030	.030	.031	.031	.032	.032	17
18	.024	.025	.025	.025	.026	.026	.027	.027	.028	.028	.029	.029	18
19	.022	.022	.023	.023	.024	.024	.024	.025	.025	.026	.026	.027	19
20	.020	.020	.020	.021	.021	.021	.022	.022	.023	.023	.023	.024	20
21	.017	.018	.018	.018	.019	.019	.019	.020	.020	.020	.021	.021	21
22	.015	.015	.016	.016	.016	.016	.017	.017	.017	.018	.018	.018	22
23	.013	.013	.013	.013	.014	.014	.014	.014	.015	.015	.015	.015	23
24	.010	.011	.011	.011	.011	.011	.012	.012	.012	.012	.012	.013	24
25	.008	.008	.008	.009	.009	.009	.009	.009	.009	.009	.010	.010	25
26	.006	.006	.006	.006	.006	.006	.006	.007	.007	.007	.007	.007	26
27	.003	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004	27
28	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	28
29	−.001	−.001	−.001	−.001	−.001	−.001	−.001	−.001	−.001	−.001	−.001	−.001	29
30	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004	30
31	.006	.006	.006	.006	.006	.006	.006	.007	.007	.007	.007	.007	31
32	.008	.008	.008	.008	.009	.009	.009	.009	.009	.009	.010	.010	32
33	.010	.011	.011	.011	.011	.011	.012	.012	.012	.012	.012	.012	33
34	.013	.013	.013	.013	.014	.014	.014	.014	.015	.015	.015	.015	34
35	.015	.015	.015	.016	.016	.016	.017	.017	.017	.018	.018	.018	35
36	.017	.017	.018	.018	.019	.019	.019	.019	.020	.020	.021	.021	36
37	.019	.020	.020	.021	.021	.021	.022	.022	.022	.023	.023	.024	37
38	.022	.022	.023	.023	.023	.024	.024	.025	.025	.026	.026	.026	38
39	.024	.024	.025	.025	.026	.026	.027	.027	.028	.028	.029	.029	39
40	.026	.027	.027	.028	.028	.029	.029	.030	.030	.031	.031	.032	40
41	.029	.029	.030	.030	.031	.031	.032	.033	.033	.034	.034	.035	41
42	.031	.031	.032	.033	.033	.034	.034	.036	.036	.036	.037	.037	42
43	.033	.034	.034	.035	.036	.036	.037	.038	.038	.039	.040	.040	43
44	.035	.036	.037	.037	.038	.039	.040	.040	.041	.042	.042	.043	44
45	.038	.038	.039	.040	.041	.041	.042	.043	.044	.044	.045	.046	45
46	.040	.041	.042	.042	.043	.044	.045	.045	.046	.047	.048	.049	46
47	.042	.043	.044	.045	.046	.046	.047	.048	.049	.050	.051	.051	47
48	.045	.045	.046	.047	.048	.049	.050	.051	.052	.052	.053	.054	48
49	.047	.048	.049	.050	.050	.051	.052	.053	.054	.055	.056	.057	49
50	.049	.050	.051	.052	.053	.054	.055	.056	.057	.058	.059	.060	50

Height of the Barometer in Inches, and Correction in Decimals of an Inch.

[illegible]	25.5	26.	26.5	27.	27.5	28.	28.5	29.	29.5	30.	30.5	31.	Temp. Faht.
50°	—.049	—.050	—.051	—.052	—.053	—.054	—.055	—.056	—.057	—.058	—.059	—.060	50°
51	.051	.052	.053	.054	.055	.056	.057	.058	.059	.060	.061	.062	51
52	.054	.055	.056	.057	.058	.059	.060	.061	.062	.063	.064	.065	52
53	.056	.057	.058	.059	.060	.061	.063	.064	.065	.066	.067	.068	53
54	.058	.059	.060	.062	.063	.064	.065	.066	.067	.068	.070	.071	54
55	.060	.062	.063	.064	.065	.066	.068	.069	.070	.071	.072	.073	55
56	.063	.064	.065	.066	.068	.069	.070	.071	.073	.074	.075	.076	56
57	.065	.066	.068	.069	.070	.071	.073	.074	.075	.076	.078	.079	57
58	.067	.069	.070	.071	.073	.074	.075	.077	.078	.079	.081	.082	58
59	.070	.071	.072	.074	.075	.076	.078	.079	.080	.082	.083	.085	59
60	.072	.073	.075	.076	.077	.079	.080	.082	.083	.085	.086	.087	60
61	.074	.075	.077	.078	.080	.081	.083	.084	.086	.087	.089	.090	61
62	.076	.078	.079	.081	.082	.084	.085	.087	.088	.090	.091	.093	62
63	.079	.080	.082	.083	.085	.086	.088	.089	.091	.093	.094	.096	63
64	.081	.082	.084	.086	.087	.089	.090	.092	.094	.095	.097	.098	64
65	.083	.085	.086	.088	.090	.091	.093	.095	.096	.098	.100	.101	65
66	.085	.087	.089	.090	.092	.094	.096	.097	.099	.101	.102	.104	66
67	.088	.089	.091	.093	.095	.096	.098	.100	.102	.103	.105	.107	67
68	.090	.092	.094	.095	.097	.099	.101	.102	.104	.106	.108	.109	68
69	.092	.094	.096	.098	.100	.101	.103	.105	.107	.109	.110	.112	69
70	.095	.096	.098	.100	.102	.104	.106	.108	.109	.111	.113	.115	70
71	.097	.099	.101	.102	.104	.106	.108	.110	.112	.114	.116	.118	71
72	.099	.101	.103	.105	.107	.109	.111	.113	.115	.117	.119	.120	72
73	.101	.103	.105	.107	.109	.111	.113	.115	.117	.119	.121	.123	73
74	.104	.106	.108	.110	.112	.114	.116	.118	.120	.122	.124	.126	74
75	.106	.108	.110	.112	.114	.116	.118	.120	.122	.125	.127	.129	75
76	.108	.110	.112	.114	.117	.119	.121	.123	.125	.127	.129	.131	76
77	.110	.112	.115	.117	.119	.121	.123	.126	.128	.130	.132	.134	77
78	.113	.115	.117	.119	.122	.124	.126	.128	.130	.133	.135	.137	78
79	.115	.117	.119	.122	.124	.126	.128	.131	.133	.135	.137	.140	79
80	.117	.119	.122	.124	.126	.129	.131	.133	.136	.138	.140	.143	80
81	.119	.122	.124	.126	.129	.131	.134	.136	.138	.141	.143	.145	81
82	.122	.124	.126	.129	.131	.134	.136	.138	.141	.143	.146	.148	82
83	.124	.126	.129	.131	.134	.136	.139	.141	.143	.146	.148	.151	83
84	.126	.129	.131	.134	.136	.139	.141	.144	.146	.149	.151	.154	84
85	.128	.131	.133	.136	.139	.141	.144	.146	.149	.151	.154	.156	85
86	.131	.133	.136	.138	.141	.144	.146	.149	.151	.154	.156	.159	86
87	.133	.136	.138	.141	.143	.146	.149	.151	.154	.157	.159	.162	87
88	.135	.138	.141	.143	.146	.149	.151	.154	.157	.159	.162	.165	88
89	.137	.140	.143	.145	.148	.151	.154	.156	.159	.162	.165	.167	89
90	.140	.142	.145	.148	.151	.153	.156	.159	.162	.164	.167	.170	90
91	.142	.145	.148	.150	.153	.156	.159	.162	.165	.167	.170	.173	91
92	.144	.147	.150	.153	.156	.158	.161	.164	.167	.170	.172	.175	92
93	.147	.149	.152	.155	.158	.161	.164	.167	.170	.172	.175	.178	93
94	.149	.152	.155	.157	.161	.163	.166	.169	.172	.175	.177	.180	94
95	.151	.154	.157	.160	.163	.166	.169	.172	.175	.178	.180	.183	95
96	.153	.156	.159	.162	.165	.168	.171	.174	.178	.181	.183	.186	96
97	.156	.159	.162	.165	.168	.171	.174	.177	.180	.183	.186	.189	97
98	.158	.161	.164	.167	.170	.173	.176	.179	.183	.186	.188	.191	98
99	.160	.163	.166	.169	.173	.176	.179	.182	.185	.188	.191	.194	99
100	.162	.165	.169	.172	.175	.178	.181	.184	.188	.191	.194	.197	100
101	.164	.168	.172	.174	.177	.181	.184	.187	.191	.193	.197	.200	101
102	.166	.170	.174	.177	.180	.183	.186	.190	.193	.196	.199	.202	102
103	.169	.172	.176	.179	.182	.186	.189	.193	.196	.198	.202	.205	103
104	.171	.175	.179	.181	.185	.188	.191	.195	.198	.201	.204	.207	104
105	.173	.177	.181	.184	.187	.191	.194	.198	.201	.204	.207	.210	105
106	.175	.179	.183	.186	.189	.193	.196	.200	.204	.207	.210	.213	106
107	.178	.182	.186	.189	.191	.196	.199	.203	.206	.209	.213	.216	107
108	.180	.184	.188	.191	.194	.198	.201	.205	.209	.212	.215	.218	108
109	.182	.186	.190	.193	.197	.201	.204	.208	.211	.214	.218	.221	109
110	.184	.188	.193	.196	.199	.203	.206	.210	.214	.216	.221	.224	110

Heights Corresponding to Readings of Barometer.

Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.
14.50	1255.4		15.10	2311.2		15.70	3330.8		16.30	4309.6		16.90	5255.6	
.51	1273.3	1.8	.11	2328.5		.71	3347.5		.31	4325.6	1.6	.91	5271.	
.52	1291.2	3.6	.12	2346.8		.72	3364.2		.32	4341.6	3.2	.92	5286.4	
.53	1309.1	5.4	.13	2363.1		.73	3380.9		.33	4357.5	4.8	.93	5301.8	
.54	1327.	7.2	.14	2380.4		.74	3397.5		.34	4373.4	6.4	.94	5317.2	
.55	1344.9	9.	.15	2397.7		.75	3414.1		.35	4389.3	8.0	.95	5332.6	
.56	1362.8	10.8	.16	2415.0		.76	3430.7		.36	4405.2	9.6	.96	5348.	
.57	1380.6	12.6	.17	2432.3		.77	3447.3		.37	4421.1	11.2	.97	5363.4	
.58	1398.4	14.4	.18	2449.6		.78	3463.8		.38	4437.	12.8	.98	5378.7	
.59	1416.2	16.2	.19	2466.9		.79	3480.3		.39	4452.9	14.4	.99	5394.	
14.60	1434.		15.20	2484.1		15.80	3496.8		16.40	4468.8		17.00	5409.3	
.61	1451.8		.21	2501.3		.81	3513.3	1.7	.41	4484.7		.01	5424.6	
.62	1469.6		.22	2518.5		.82	3529.8	3.3	.42	4500.6		.02	5439.8	
.63	1487.3		.23	2535.7		.83	3546.3	5.	.43	4516.5		.03	5455.	
.64	1505.		.24	2552.8		.84	3562.7	6.6	.44	4532.3		.04	5470.2	
.65	1522.7		.25	2569.9		.85	3579.1	8.3	.45	4548.1		.05	5485.4	
.66	1540.4		.26	2587.		.86	3595.5	9.9	.46	4563.9		.06	5500.7	
.67	1558.		.27	2604.		.87	3611.9	11.6	.47	4579.7		.07	5515.9	
.68	1575.6		.28	2621.		.88	3628.4	13.2	.48	4595.5		.08	5531.2	
.69	1593.3		.29	2638.		.89	3644.8	14.9	.49	4611.3		.09	5546.4	
14.70	1611.		15.30	2655.		15.90	3661.2		16.50	4627.1		17.10	5561.6	
.71	1628.7		.31	2672.	1.7	.91	3677.7		.51	4642.9		.11	5576.9	
.72	1646.4		.32	2689.	3.4	.92	3694.1		.52	4658.7		.12	5592.2	
.73	1664.		.33	2706.	5.1	.93	3710.5		.53	4674.5		.13	5607.5	
.74	1681.6		.34	2723.	6.8	.94	3726.9		.54	4690.3		.14	5622.7	
.75	1699.2		.35	2740.	8.5	.95	3743.3		.55	4706.1		.15	5637.9	
.76	1716.8		.36	2757.	10.2	.96	3759.7		.56	4721.9		.16	5653.1	
.77	1734.4		.37	2774.	11.9	.97	3776.1		.57	4737.7		.17	5668.3	
.78	1752.		.38	2791.	13.6	.98	3792.5		.58	4753.5		.18	5683.4	
.79	1779.6		.39	2808.	15.3	.99	3808.8		.59	4769.2		.19	5698.6	
14.80	1787.2		15.40	2825.		16.00	3825.1		16.60	4784.9		17.20	5713.8	
.81	1804.8		.41	2842.		.01	3841.4		.61	4800.6		.21	5728.9	
.82	1822.3		.42	2859.		.02	3857.8		.62	4816.3		.22	5744.1	
.83	1840.8		.43	2876.		.03	3874.1		.63	4832.		.23	5759.3	
.84	1858.3		.44	2893.		.04	3890.4		.64	4847.8		.24	5774.4	
.85	1875.8		.45	2910.		.05	3906.7		.65	4863.5		.25	5789.5	
.86	1893.3		.46	2927.		.06	3923.		.66	4879.2		.26	5804.7	
.87	1910.8		.47	2943.9		.07	3939.3		.67	4894.9		.27	5819.8	
.88	1928.3		.48	2960.8		.08	3955.6		.68	4910.6		.28	5835.	
.89	1945.8		.49	2977.7		.09	3971.8		.69	4926.3		.29	5850.2	
14.90	1963.3		15.50	2994.6		16.10	3988.		16.70	4942.		17.30	5865.4	
.91	1980.8	1.8	.51	3011.5		.11	4004.2		.71	4957.7		.31	5880.6	
.92	1998.3	3.5	.52	3028.4		.12	4020.4		.72	4973.4		.32	5895.9	
.93	2015.8	5.3	.53	3045.3		.13	4036.6		.73	4989.1		.33	5911.1	
.94	2033.3	7.	.54	3062.1		.14	4052.8		.74	5004.8		.34	5926.3	
.95	2050.8	8.8	.55	3078.9		.15	4068.9		.75	5020.5		.35	5941.6	
.96	2068.2	10.5	.56	3095.7		.16	4085.		.76	5036.2		.36	5956.8	
.97	2085.6	12.3	.57	3112.5		.17	4101.1		.77	5051.9		.37	5971.6	
.98	2103.	14.	.58	3129.3		.18	4117.2		.78	5067.6		.38	5986.4	
.99	2120.4	15.8	.59	3146.1		.19	4133.3		.79	5083.3		.39	6001.1	
15.00	2137.8		15.60	3162.9		16.20	4149.4		16.80	5099.		17.40	6015.9	
.01	2155.2		.61	3179.7		.21	4165.5		.81	5114.6	1.6	.41	6031.	1.5
.02	2172.6		.62	3196.5		.22	4181.6		.82	5130.3	3.1	.42	6046.1	3.
.03	2190.		.63	3213.3		.23	4197.6		.83	5145.9	4.7	.43	6061.3	4.5
.04	2207.4		.64	3230.1		.24	4213.6		.84	5161.6	6.2	.44	6076.4	6.
.05	2224.7		.65	3246.9		.25	4229.6		.85	5177.2	7.8	.45	6091.5	7.5
.06	2242.		.66	3263.7		.26	4245.6		.86	5193.7	9.3	.46	6106.5	9.
.07	2259.3		.67	3280.5		.27	4261.6		.87	5209.2	10.9	.47	6121.6	10.5
.08	2276.6		.68	3297.3		.28	4277.6		.88	5224.7	12.4	.48	6136.6	12.
.09	2293.9		.69	3314.1		.29	4293.6		.89	5240.2	14.	.49	6151.3	13.5
15.10	2311.2		15.70	3330.8		16.30	4309.6		16.90	5255.6		17.50	6165.9	

Heights Corresponding to Readings of Barometer.

Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.
[illegible]	6165.9		18.10	7047.		18.70	7898.7		19.30	8724.8		19.90	9524.	
.11	6180.6		.11	7061.5		.71	7912.8		.31	8738.3		.91	9537.2	1.3
.12	6195.3		.12	7075.7		.72	7926.8		.32	8751.8		.92	9550.4	2.6
.13	6210.4		.13	7089.8		.73	7940.9		.33	8765.2		.93	9563.2	3.9
.14	6225.4		.14	7104.		.74	7954.9		.34	8778.6		.94	9576.1	5.2
.15	6240.5		.15	7118.2		.75	7968.9		.35	8792.		.95	9589.	6.5
.16	6255.5		.16	7132.8		.76	7982.9		.36	8805.3		.96	9601.9	7.8
.17	6270.5		.17	7147.3		.77	7997.		.37	8818.7		.97	9615.1	9.1
.18	6285.4		.18	7161.9		.78	8011.		.38	8832.3		.98	9628.3	10.4
.19	6340.4		.19	7176.4		.79	8024.7		.39	8845.9		.99	9641.5	11.7
[illegible]	6315.4		18.20	7190.9		19.80	8038.4		19.40	8859.6		20.00	9654.7	
.21	6330.		.21	7205.3		.81	8052.1		.41	8873.2		.01	9667.9	
.22	6344.6		.22	7219.8		.82	8065.8		.42	8886.4		.02	9681.1	
.23	6359.2		.23	7234.2		.83	8079.8		.43	8899.6		.03	9694.3	
.24	6373.8		.24	7248.7		.84	8093.7		.44	8912.8		.04	9707.5	
.25	6388.8		.25	7263.1		.85	8107.7		.45	8926.		.05	9720.6	
.26	6403.7		.26	7277.6		.86	8121.6		.46	8939.6		.06	9733.7	
.27	6418.7		.27	7292.1		.87	8135.3		.47	8953.1		.07	9746.8	
.28	6433.6		.28	7306.1		.88	8149.		.48	8966.7		.08	9759.9	
.29	6448.5		.29	7320.1		.89	8162.7		.49	8980.2		.09	9772.7	
[illegible].70	6463.3		18.30	7334.2		18.90	8176.4		19.50	8994.		20.10	9785.5	
.71	6478.2		.31	7348.2		.91	8190.4		.51	9007.7		.11	9798.3	
.72	6493.1		.32	7362.6		.92	8204.3		.52	9021.5		.12	9811.1	
.73	6507.5		.33	7376.9		.93	8218.3		.53	9035.3		.13	9824.2	
.74	6521.9		.34	7391.3		.94	8232.3		.54	9048.1		.14	9837.3	
.75	6536.4		.35	7405.7		.95	8246.		.55	9060.8		.15	9850.5	
.76	6550.8		.36	7419.7		.96	8259.7		.56	9073.6		.16	9863.6	
.77	6565.7		.37	7433.7		.97	8273.5		.57	9086.4		.17	9876.3	
.78	6580.6		.38	7447.8		.98	8287.3		.58	9099.6		.18	9889.	
.79	6595.5		.39	7461.8		.99	8300.9		.59	9112.8		.19	9901.7	
17.80	6610.4		18.40	7475.7		19.00	8314.4		19.60	9126.1		20.20	9914.4	
.81	6624.8		.41	7489.6		.01	8328.		.61	9139.3		.21	9927.4	
.82	6639.2		.42	7503.6		.02	8341.5		.62	9152.8		.22	9940.4	
.83	6653.7		.43	7517.5		.03	8355.5		.63	9166.2		.23	9953.5	
.84	6668.1		.44	7531.9		.04	8369.5		.64	9179.7		.24	9966.5	
.85	6682.9		.45	7546.3		.05	8383.5		.65	9193.1		.25	9979.2	
.86	6697.7		.46	7560.7		.06	8397.3		.66	9206.6		.26	9991.9	
.87	6712.5		.47	7575.		.07	8411.1		.67	9220.		.27	10004.7	
.88	6727.3		.48	7589.3		.08	8424.9		.68	9233.5		.28	10017.4	
.89	6742.1		.49	7603.6		.09	8438.7		.69	9246.9		.29	10030.5	
17.90	6756.9		18.50	7617.9		19.10	8452.2		19.70	9260.2		20.30	10043.7	
.91	6771.7		.51	7632.1		.11	8465.7		.71	9273.6		.31	10056.8	
.92	6786.1		.52	7646.2		.12	8479.2		.72	9286.9		.32	10069.7	
.93	6800.4		.53	7660.4		.13	8492.8		.73	9300.		.33	10082.7	
.94	6814.8		.54	7674.5		.14	8506.6		.74	9313.		.34	10095.8	
.95	6829.2		.55	7688.4		.15	8520.4		.75	9326.1		.35	10108.8	
.96	6843.8		.56	7702.3		.16	8534.2		.76	9339.1		.36	10121.1	
.97	6858.4		.57	7716.3		.17	8548.		.77	9352.5		.37	10133.7	
.98	6873.1		.58	7730.2		.18	8561.4		.78	9365.8		.38	10146.3	
.99	6887.7		.59	7744.3		.19	8574.7		.79	9379.2		.39	10158.9	
18.00	6902.3		18.60	7758.4		19.20	8588.1		19.80	9392.6		20.40	10171.8	
.01	6916.9	1.5	.61	7772.6	1.4	.21	8601.5	1.4	.81	9405.9		.41	10184.7	
.02	6931.6	2.9	.62	7786.8	2.8	.22	8615.2	2.7	.82	9419.1		.42	10197.7	
.03	6946.2	4.4	.63	7800.9	4.2	.23	8628.9	4.1	.83	9432.4		.43	10210.6	
.04	6960.5	5.8	.64	7815.1	5.6	.24	8642.6	5.4	.84	9445.7		.44	10223.4	
.05	6974.7	7.3	.65	7829.4	7.	.25	8656.3	6.8	.85	9458.7		.45	10236.3	
.06	6989.	8.7	.66	7843.6	8.4	.26	8669.9	8.1	.86	9471.6		.46	10249.2	
.07	7003.3	10.2	.67	7857.4	9.8	.27	8683.5	9.5	.87	9484.6		.47	10262.1	
.08	7017.9	11.6	.68	7871.1	11.2	.28	8697.2	10.8	.88	9497.6		.48	10274.6	
.09	7032.4	13.1	.69	7884.9	12.6	.29	8710.8	12.2	.89	9510.8		.49	10287.2	
18.10	7047.		18.70	7898.7		19.30	8724.8		19.90	9524.		20.50	10299.7	

Heights Corresponding to Readings of Barometer.

Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.
20.50	10299.7		21.10	11054.2		21.70	11786.3		22.30	12498.8		22.90	13192.7	
.51	10312.3		.11	11066.3		.71	11798.4		.31	12510.4		.91	13204.2	
.52	10325.2		.12	11078.5		.72	11810.5		.32	12522.		.92	13215.4	
.53	10338.		.13	11090.6		.73	11822.6		.33	12533.5		.93	13226.6	
.54	10350.9		.14	11102.8		.74	11834.5		.34	12545.		.94	13237.9	
.55	10363.8		.15	11115.2		.75	11846.3		.35	12556.5		.95	13249.1	
.56	10376.5		.16	11127.6		.76	11858.1		.36	12568.		.96	13260.5	
.57	10389.3		.17	11140.1		.77	11869.9		.37	12579.7		.97	13272.	
.58	10402.1		.18	11152.5		.78	11881.8		.38	12591.5		.98	13283.5	
.59	10414.9		.19	11164.9		.79	11893.8		.39	12603.2		.99	13295.	
20.60	10427.4		21.20	11177.4		21.80	11905.7		22.40	12615.		23.00	13306.5	
.61	10440.		.21	11189.8		.81	11917.7		.41	12626.8	1.2	.01	13318.	
.62	10452.5		.22	11202.3		.82	11929.9		.42	12638.6	2.3	.02	13329.5	
.63	10465.1		.23	11214.4		.83	11942.2		.43	12650.4	3.5	.03	13341.0	
.64	10477.8		.24	11226.6		.84	11954.4		.44	12662.2	4.6	.04	13352.2	
.65	10490.6		.25	11238.7		.85	11966.7		.45	12673.9	5.8	.05	13363.3	
.66	10503.4		.26	11250.9		.86	11978.4		.46	12685.7	6.9	.06	13374.4	
.67	10516.2		.27	11263.2		.87	11990.2		.47	12697.4	8.1	.07	13385.6	
.68	10528.5		.28	11275.6		.88	12001.9		.48	12709.2	9.2	.08	13397.	
.69	10540.9		.29	11287.9		.89	12013.7		.49	12720.6	10.4	.09	13408.4	
20.70	10553.3		21.30	11300.3		21.90	12025.7		22.50	12732.		23.10	13419.9	
.71	10565.7	1.3	.31	11312.3		.91	12037.7		.51	12743.4		.11	13431.3	
.72	10578.4	2.5	.32	11324.4		.92	12049.8		.52	12754.8		.12	13442.4	
.73	10591.1	3.8	.33	11336.4		.93	12061.8		.53	12766.4		.13	13453.4	
.74	10603.8	5.	.34	11348.5		.94	12073.8		.54	12778.1		.14	13464.5	
.75	10616.5	6.3	.35	11360.8		.95	12085.8		.55	12789.8		.15	13475.6	
.76	10629.2	7.5	.36	11373.2		.96	12097.8		.56	12801.5		.16	13486.9	
.77	10641.9	9.	.37	11385.6		.97	12109.8		.57	12813.2		.17	13498.3	
.78	10654.6	10.	.38	11398.		.98	12121.5		.58	12824.9		.18	13509.6	
.79	10667.3	11.3	.39	11410.2		.99	12133.2		.59	12836.6		.19	13521.	
20.80	10679.6		21.40	11422.5		22.00	12145.0		22.60	12848.3		23.20	13532.3	
.81	10692.		.41	11434.7		.01	12156.7		.61	12859.7		.21	13543.7	
.82	10704.4		.42	11447.		.02	12168.6		.62	12871.1		.22	13555.	
.83	10716.8		.43	11458.9		.03	12180.6		.63	12882.5		.23	13566.4	
.84	10729.4		.44	11470.9		.04	12192.5		.64	12893.9		.24	13577.5	
.85	10742.		.45	11482.9		.05	12204.5		.65	12905.5		.25	13588.5	
.86	10754.6		.46	11494.9		.06	12216.1		.66	12917.1		.26	13599.6	
.87	10767.2		.47	11507.2		.07	12227.8		.67	12928.7		.27	13610.7	
.88	10779.9		.48	11519.6		.08	12239.4		.68	12940.3		.28	13622.	
.89	10792.7		.49	11532.		.09	12251.1		.69	12951.9		.29	13633.4	
20.90	10805.4		21.50	11544.4		22.10	12263.		22.70	12963.5		23.30	13644.7	
.91	10817.7		.51	11556.8	1.2	.11	12275.		.71	12975.1		.31	13656.1	1.1
.92	10830.		.52	11569.1	2.4	.12	12286.9		.72	12986.7		.32	13667.3	2.2
.93	10842.3		.53	11581.5	3.6	.13	12298.9		.73	12998.1		.33	13678.6	3.3
.94	10854.6		.54	11593.4	4.8	.14	12310.8		.74	13009.4		.34	13689.9	4.4
.95	10867.2		.55	11605.3	6.0	.15	12322.8		.75	13020.7		.35	13701.2	5.5
.96	10879.8		.56	11617.2	7.2	.16	12334.7		.76	13032.0		.36	13712.2	6.6
.97	10892.4		.57	11629.1	8.4	.17	12346.2		.77	13043.5		.37	13723.1	7.7
.98	10905.		.58	11641.3	9.6	.18	12357.8		.78	13055.1		.38	13734.1	8.8
.99	10917.2		.59	11653.5	10.8	.19	12369.4		.79	13066.7		.39	13745.1	9.9
21.00	10929.5		21.60	11665.7		22.20	12381.		22.80	13078.3		23.40	13756.3	
.01	10941.7		.61	11677.9		.21	12392.8		.81	13089.6		.41	13767.6	
.02	10954.		.62	11690.1		.22	12404.7		.82	13100.8		.42	13778.9	
.03	10966.5		.63	11702.2		.23	12416.5		.83	13112.1		.43	13790.2	
.04	10979.		.64	11714.4		.24	12428.4		.84	13123.6		.44	13801.4	
.05	10991.6		.65	11726.6		.25	12440.2		.85	13135.1		.45	13812.6	
.06	11004.1		.66	11738.5		.26	12452.		.86	13146.6		.46	13823.8	
.07	11016.7		.67	11750.4		.27	12463.9		.87	13158.1		.47	13834.9	
.08	11029.2		.68	11762.3		.28	12475.7		.88	13169.6		.48	13846.	
.09	11041.7		.69	11774.2		.29	12487.2		.89	13181.1		.49	13857.	
21.10	11054.2		21.70	11786.3		22.30	12498.8		22.90	13192.7		23.50	13867.9	

Heights Corresponding to Readings of Barometer.

Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.
[illegible]	13867.9		24.10	14527.2		24.70	15169.6		25.30	15796.4		25.90	16409.3	
[illegible]	13878.9		.11	14537.8		.71	15180.2		.31	15806.9		.91	16419.2	
[illegible]2	13889.9		.12	14548.5		.72	15190.9		.32	15817.2		.92	16429.1	
[illegible]3	13900.9		.13	14559.2		.73	15201.3		.33	15827.4		.93	16439.1	
[illegible]4	13911.9		.14	14570.1		.74	15211.6		.34	15837.7		.94	16449.	
[illegible]5	13923.1		.15	14581.		.75	15222.		.35	15847.9		.95	16459.2	
[illegible]6	13934.2		.16	14592.		.76	15232.4		.36	15858.2		.96	16469.3	
[illegible]7	13945.4		.17	14602.9		.77	15243.1		.37	15868.5		.97	16479.5	
[illegible]8	13956.6		.18	14613.5		.78	15253.7		.38	15878.7		.98	16489.7	
.39	13967.8		.19	14624.1		.79	15264.4		.39	15889.		.99	16499.5	
[illegible]0	13978.9		24.20	14634.7		24.80	15275.1		25.40	15899.4		26.00	16509.4	
.91	13990.1		.21	14645.3		.81	15285.7		.41	15909.8		.01	16519.2	
.92	14001.3		.22	14656.2		.82	15296.2		.42	15920.3		.02	16529.1	
.93	14012.4		.23	14667.		.83	15306.8		.43	15930.7		.03	16539.2	
.94	14023.5		.24	14677.9		.84	15317.4		.44	15941.2		.04	16549.3	
.95	14034.6		.25	14688.7		.85	15327.8		.45	15951.7		.05	16559.4	
.96	14045.7		.26	14699.6		.86	15338.2		.46	15962.2		.06	16569.5	
.97	14056.6		.27	14710.5		.87	15348.7		.47	15972.7		.07	16579.7	
.98	14067.5		.28	14721.5		.88	15359.1		.48	15983.		.08	16589.8	
.99	14078.5		.29	14732.4		.89	15369.6		.49	15993.3		.09	16600.	
23.70	14089.4		24.30	14743.		24.90	15380.1		25.50	16003.6		26.10	16610.2	
.71	14100.5		.31	14753.6	1.1	.91	15390.7		.51	16013.9	1.	.11	16620.3	
.72	14111.6		.32	14764.2	2.1	.92	15401.2		.52	16023.8	2.	.12	16630.3	
.73	14122.7		.33	14774.8	3.2	.93	15411.5		.53	16033.6	3.	.13	16640.4	
.74	14133.8		.34	14785.6	4.2	.94	15421.8		.54	16043.5	4.	.14	16650.5	
.75	14144.9		.35	14796.3	5.3	.95	15432.2		.55	16053.5	5.	.15	16660.3	
.76	14156.		.36	14807.1	6.3	.96	15442.5		.56	16063.8	6.	.16	16670.	
.77	14167.1		.37	14817.9	7.4	.97	15453.1		.57	16074.1	7.	.17	16679.8	
.78	14178.2		.38	14828.7	8.4	.98	15463.7		.58	16084.4	8.	.18	16689.6	
.79	14189.		.39	14839.5	9.5	.99	15474.3		.59	16094.8	9.	.19	16699.7	
23.80	14199.8		24.40	14850.4		25.00	15484.9		25.60	16104.8		26.20	16709.8	
.81	14210.7		.41	14861.3		.01	15495.4		.61	16114.8		.21	16719.9	
.82	14221.5		.42	14871.8		.02	15505.9		.62	16124.8		.22	16730.	
.83	14232.5		.43	14882.3		.03	15516.4		.63	16134.8		.23	16739.8	
.84	14243.6		.44	14892.8		.04	15526.9		.64	16145.1		.24	16749.6	
.85	14254.6		.45	14903.3		.05	15537.1		.65	16155.3		.25	16759.5	
.86	14265.6		.46	14913.8		.06	15547.4		.66	16165.6		.26	16769.3	
.87	14276.4		.47	14924.3		.07	15557.7		.67	16175.8		.27	16779.1	
.88	14287.1		.48	14934.8		.08	15567.9		.68	16185.8		.28	16788.8	
.89	14297.9		.49	14945.3		.09	15578.4		.69	16195.8		.29	16798.6	
23.90	14308.6		24.50	14956.3		25.10	15588.9		25.70	16205.9		26.30	16808.4	
.91	14319.7		.51	14967.3		.11	15599.4		.71	16215.9		.31	16818.4	
.92	14330.8		.52	14978.3		.12	15609.9		.72	16225.6		.32	16828.4	
.93	14341.9		.53	14989.3		.13	15620.4		.73	16235.4		.33	16838.4	
.94	14353.		.54	14999.8		.14	15630.9		.74	16245.2		.34	16848.4	
.95	14364.2		.55	15010.3		.15	15641.5		.75	16254.9		.35	16858.4	
.96	14375.3		.56	15020.8		.16	15652.		.76	16265.1		.36	16868.4	
.97	14386.5		.57	15031.3		.17	15662.2		.77	16275.4		.37	16878.5	
.98	14397.7		.58	15042.2		.18	15672.3		.78	16285.6		.38	16888.5	
.99	14408.5		.59	15053.1		.19	15682.5		.79	16295.9		.39	16898.5	
24.00	14419.2		24.60	15063.9		25.20	15692.7		25.80	16306.3		26.40	16908.5	
.01	14430.		.61	15074.6		.21	15703.2		.81	16316.7		.41	16918.5	
.02	14440.8		.62	15085.3		.22	15713.7		.82	16327.2		.42	16928.5	
.03	14451.5		.63	15095.5		.23	15724.2		.83	16337.6		.43	16938.2	
.04	14462.1		.64	15105.8		.24	15734.7		.84	16347.8		.44	16947.8	
.05	14472.8		.65	15116.		.25	15744.9		.85	16358.1		.45	16957.5	
.06	14483.4		.66	15126.8		.26	15755.		.86	16368.3		.46	16967.2	
.07	14494.4		.67	15137.5		.27	15765.2		.87	16378.6		.47	16977.2	
.08	14505.5		.68	15148.3		.28	15775.4		.88	16388.8		.48	16987.2	
.09	14516.5		.69	15158.9		.29	15785.9		.89	16399.1		.49	16997.3	
24.10	14527.2		24.70	15169.6		25.30	15796.4		25.90	16409.3		26.50	17007.3	

Heights Corresponding to Readings of Barometer.

Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.
26.50	17007.3		27.10	17592.		27.70	18164.5		28.30	18723.9		28.90	19271.8	
.51	17017.2		.11	17601.6	1.	.71	18174.		.31	18733.3		.91	19281.	
.52	17027.1		.12	17611.2	1.9	.72	18183.5		.32	18742.6		.92	19290.2	
.53	17037.1		.13	17620.9	2.9	.73	18192.8		.33	18752.		.93	19299.4	
.54	17047.		.14	17630.3	3.8	.74	18202.		.34	18761.3		.94	19308.2	
.55	17056.7		.15	17639.7	4.8	.75	18211.3		.35	18770.7		.95	19317.4	
.56	17066.3		.16	17649.2	5.7	.76	18220.6		.36	18779.8		.96	19326.5	
.57	17076.		.17	17658.6	6.7	.77	18230.1		.37	18788.9		.97	19335.7	
.58	17085.7		.18	17668.1	7.6	.78	18239.5		.38	18798.		.98	19344.8	
.59	17095.3		.19	17677.6	8.6	.79	18249.		.39	18807.		.99	19353.7	
26.60	17104.9		27.20	17687.2		27.80	18258.5		28.40	18816.		29.00	19362.5	
.61	17115.4		.21	17696.7		.81	18267.8		.41	18825.2		.01	19371.4	
.62	17125.4		.22	17706.8		.82	18277.		.42	18834.5		.02	19380.3	
.63	17135.4		.23	17716.8		.83	18286.3		.43	18843.7		.03	19389.3	
.64	17145.5		.24	17726.9		.84	18295.6		.44	18853.		.04	19398.4	
.65	17155.1		.25	17736.6		.85	18305.1		.45	18862.4		.05	19407.5	
.66	17164.7		.26	17746.2		.86	18314.6		.46	18871.7		.06	19416.6	
.67	17174.3		.27	17755.9		.87	18324.1		.47	18880.8		.07	19425.7	
.68	17183.9		.28	17765.6		.88	18333.6		.48	18889.9		.08	19434.8	
.69	17193.5		.29	17775.		.89	18343.		.49	18899.1		.09	19443.9	
26.70	17203.4		27.30	17784.4		27.90	18352.5		28.50	18908.2		29.10	19452.7	
.71	17213.3		.31	17793.9		.91	18362.		.51	18917.3		.11	19461.4	
.72	17223.3		.32	17803.3		.92	18371.5		.52	18926.5		.12	19470.2	
.73	17233.2		.33	17812.9		.93	18380.9		.53	18935.6		.13	19479.	
.74	17242.8		.34	17822.5		.94	18390.4		.54	18944.8		.14	19488.1	
.75	17252.4		.35	17832.2		.95	18399.8		.55	18953.9		.15	19497.2	
.76	17262.		.36	17841.8		.96	18409.		.56	18962.8		.16	19506.3	
.77	17271.6		.37	17851.3		.97	18418.1		.57	18971.8		.17	19515.4	
.78	17281.5		.38	17860.8		.98	18427.3		.58	18980.9		.18	19524.1	
.79	17291.3		.39	17870.3		.99	18436.5		.59	18990.1		.19	19532.7	
26.80	17301.2		27.40	17879.7		28.00	18445.9		28.60	18999.4		29.20	19541.6	
.81	17311.		.41	17889.2		.01	18455.3		.61	19008.7		.21	19550.	
.82	17320.9		.42	17898.7		.02	18464.8		.62	19017.9		.22	19559.1	
.83	17330.7		.43	17908.2		.03	18474.2		.63	19027.1		.23	19568.2	
.84	17340.6		.44	17917.7		.04	18483.3		.64	19036.3		.24	19577.4	
.85	17350.4		.45	17927.3		.05	18492.4		.65	19045.5		.25	19586.5	
.86	17360.		.46	17936.8		.06	18501.5		.66	19054.6		.26	19595.6	
.87	17369.6		.47	17946.4		.07	18510.6		.67	19063.6		.27	19604.7	
.88	17379.2		.48	17956.		.08	18520.		.68	19072.6		.28	19613.8	
.89	17388.8		.49	17965.6		.09	18529.4		.69	19081.6		.29	19622.8	
26.90	17398.6		27.50	17975.1		28.10	18538.8		28.70	19090.6		29.30	19631.6	
.91	17408.3		.51	17984.7		.11	18548.2		.71	19099.7	.9	.31	19640.4	
.92	17418.1		.52	17994.3		.12	18557.4		.72	19108.9	1.8	.32	19649.1	
.93	17427.8		.53	18003.7		.13	18566.6		.73	19118.1	2.7	.33	19657.9	
.94	17437.6		.54	18013.		.14	18575.8		.74	19127.3	3.6	.34	19666.8	
.95	17447.3		.55	18022.4		.15	18585.		.75	19136.5	4.5	.35	19675.7	
.96	17457.1		.56	18031.7		.16	18594.3		.76	19145.7	5.4	.36	19684.7	
.97	17466.8		.57	18041.3		.17	18603.6		.77	19154.9	6.3	.37	19693.6	
.98	17476.3		.58	18050.8		.18	18613.		.78	19164.	7.2	.38	19702.6	
.99	17485.8		.59	18060.4		.19	18622.3		.79	19172.9	8.1	.39	19711.6	
27.00	17495.3		27.60	18070.		28.20	18631.6		28.80	19181.8		29.40	19720.6	
.01	17504.8		.61	18079.3		.21	18640.9		.81	19190.7		.41	19729.6	
.02	17514.6		.62	18088.5		.22	18650.3		.82	19199.7		.42	19738.3	
.03	17524.3		.63	18097.8		.23	18659.6		.83	19208.8		.43	19746.9	
.04	17534.1		.64	18107.1		.24	18668.7		.84	19217.9		.44	19755.6	
.05	17543.8		.65	18116.7		.25	18677.8		.85	19227.		.45	19764.3	
.06	17553.4		.66	18126.3		.26	18686.9		.86	19236.1		.46	19773.2	
.07	17563.1		.67	18135.9		.27	18696.		.87	19245.1		.47	19782.1	
.08	17572.7		.68	18145.5		.28	18705.3		.88	19254.		.48	19791.1	
.09	17582.3		.69	18155.		.29	18714.5		.89	19262.9		.49	19800.	
27.10	17592.		27.70	18164.5		28.30	18723.9		28.90	19271.8		29.50	19808.8	

Heights Corresponding to Readings of Barometer.

Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.	Diff.	Barom. in Ins.	Height in Feet.
29.50	19808.8		30.10	20335.4		30.70	20850.5
.51	19817.6		.11	20344.		.71	20858.8
.52	19826.5		.12	20352.5		.72	20867.4
.53	19835.3		.13	20361.2		.73	20875.9
.54	19844.2		.14	20369.9		.74	20884.5
.55	19853.		.15	20378.7		.75	20893.1
.56	19861.9		.16	20387.4		.76	20901.7
.57	19870.7		.17	20396.		.77	20910.2
.58	19879.6		.18	20404.5		.78	20918.8
.59	19888.5		.19	20413.1		.79	20927.4
29.60	19897.5		30.20	20421.6		30.80	20935.8
.61	19906.4		.21	20430.1		.81	20944.1
.62	19915.1		.22	20438.6		.82	20952.5
.63	19923.8		.23	20447.2		.83	20960.9
.64	19932.5		.24	20455.7		.84	20969.5
.65	19941.2		.25	20464.4		.85	20978.1
.66	19950.2		.26	20473.1		.86	20986.7
.67	19959.1		.27	20481.9		.87	20995.3
.68	19968.1		.28	20490.6		.88	21003.8
.69	19977.		.29	20499.3		.89	21012.3
29.70	19985.8		30.30	20508.1		30.90	21020.8
.71	19994.7		.31	20516.8		.91	21029.2
.72	20003.5		.32	20525.5		.92	21037.5
.73	20011.9		.33	20534.1		.93	21045.9
.74	20020.3		.34	20542.8		.94	21054.3
.75	20028.8		.35	20551.4		.95	21062.8
.76	20037.2		.36	20559.9		.96	21071.3
.77	20046.3		.37	20568.4		.97	21079.8
.78	20055.4		.38	20577.		.98	21088.3
.79	20064.5		.39	20585.5		.99	21096.6
29.80	20073.6		30.40	20594.2		31.00	21104.8
.81	20082.4		.41	20602.8		.01	21113.1
.82	20091.2		.42	20611.5		.02	21121.4
.83	20100.1		.43	20620.2		.03	21129.9
.84	20108.9		.44	20628.9		.04	21138.4
.85	20117.5		.45	20637.5		.05	21146.9
.86	20126.1		.46	20646.2		.06	21155.4
.87	20134.7		.47	20654.8		.07	21163.9
.88	20143.3		.48	20663.2		.08	21172.3
.89	20152.1		.49	20671.5		.09	21180.8
29.90	20160.9		30.50	20679.9		31.10	21189.3
.91	20169.8		.51	20688.3	.9		
.92	20178.6		.52	20696.8	1.7		
.93	20187.1		.53	20705.2	2.6		
.94	20195.6		.54	20713.7	3.4		
.95	20204.2		.55	20722.1	4.3		
.96	20212.7		.56	20730.9	5.1		
.97	20221.6		.57	20739.7	6.		
.98	20230.4		.58	20748.5	6.8		
.99	20239.3		.59	20757.3	7.7		
30.00	20248.1		30.60	20765.8			
.01	20256.9		.61	20774.2			
.02	20265.7		.62	20782.7			
.03	20274.5		.63	20791.1			
.04	20283.3		.64	20799.7			
.05	20292.1		.65	20808.2			
.06	20300.8		.66	20816.8			
.07	20309.6		.67	20825.4			
.08	20318.3		.68	20833.8			
.09	20326.9		.69	20842.1			
30.10	20335.4		30.70	20850.5			

Correction for Diff. in Temperature of the Barometers.

T—T′	Corrn.	T—T′	Corrn.	T—T′	Corrn.	T—T′	Corrn.
°	ft.	°	ft.	°	ft.	°	ft.
0.0	.0	12.0	32.1	24.0	64.3	36.0	96.5
.2	.5	.2	32.7	.2	64.8	.2	97.
.4	1.1	.4	33.2	.4	65.4	.4	97.6
.6	1.6	.6	33.8	.6	65.9	.6	98.1
.8	2.2	.8	34.3	.8	66.5	.8	98.7
1.0	2.7	13.0	34.9	25.0	67.0	37.0	99.2
.2	3.3	.2	35.4	.2	67.6	.2	99.7
.4	3.8	.4	36.	.4	68.1	.4	100.3
.6	4.4	.6	36.5	.6	68.7	.6	100.8
.8	4.9	.8	37.1	.8	69.2	.8	101.4
2.0	5.5	14.0	37.6	26.0	69.8	38.0	101.9
.2	5.9	.2	38.2	.2	70.3	.2	102.4
.4	6.4	.4	38.7	.4	70.9	.4	103.
.6	6.9	.6	39.3	.6	71.4	.6	103.5
.8	7.4	.8	39.8	.8	71.9	.8	104.1
3.0	7.9	15.0	40.3	27.0	72.5	39.0	104.6
.2	8.4	.2	40.7	.2	73.	.2	105.1
.4	9.0	.4	41.2	.4	73.5	.4	105.7
.6	9.5	.6	41.7	.6	73.9	.6	106.2
.8	10.1	.8	42.2	.8	74.4	.8	106.7
4.0	10.6	16.0	42.7	28.0	74.9	40.0	107.3
.2	11.1	.2	43.3	.2	75.5		
.4	11.7	.4	43.8	.4	76.		
.6	12.2	.6	44.4	.6	76.6		
.8	12.8	.8	44.9	.8	77.1		
5.0	13.3	17.0	45.5	29.0	77.6		
.2	13.9	.2	46.	.2	78.2		
.4	14.4	.4	46.6	.4	78.7		
.6	15.0	.6	47.1	.6	79.3		
.8	15.5	.8	47.7	.8	79.8		
6.0	16.1	18.0	48.2	30.0	80.4		
.2	16.6	.2	48.8	.2	80.9		
.4	17.1	.4	49.3	.4	81.5		
.6	17.7	.6	49.9	.6	82.		
.8	18.3	.8	50.4	.8	82.6		
7.0	18.8	19.0	51.	31.0	83.1		
.2	19.3	.2	51.5	.2	83.7		
.4	19.9	.4	52.	.4	84.2		
.6	20.4	.6	52.6	.6	84.7		
.8	21.0	.8	53.1	.8	85.3		
8.0	21.5	20.0	53.7	32.0	85.8		
.2	22.1	.2	54.2	.2	86.4		
.4	22.6	.4	54.6	.4	86.9		
.6	23.2	.6	55.1	.6	87.5		
.8	23.7	.8	55.6	.8	88.0		
9.0	24.3	21.0	56.1	33.0	88.6		
.2	24.8	.2	56.6	.2	89.1		
.4	25.2	.4	57.2	.4	89.7		
.6	25.7	.6	57.7	.6	90.2		
.8	26.2	.8	58.3	.8	90.8		
10.0	26.7	22.0	58.8	34.0	91.3		
.2	27.2	.2	59.4	.2	91.9		
.4	27.8	.4	59.9	.4	92.4		
.6	28.3	.6	60.5	.6	93.		
.8	28.9	.8	61.	.8	93.5		
11.0	29.4	23.0	61.6	35.0	94.		
.2	30.	.2	62.1	.2	94.5		
.4	30.5	.4	62.7	.4	95.		
.6	31.1	.6	63.2	.6	95.5		
.8	31.6	.8	63.8	.8	96.		

Correction in Feet, for Approximate Height and Latitude of Place,—always additive.

Approx. Height.	Lat. 0°	Lat. 5°	Lat. 10°	Lat. 15°	Lat. 20°	Lat. 25°	Lat. 30°	Lat. 35°	Lat. 40°	Lat. 45°	Lat. 50°	Lat. 55°
500	3.2	3.2	3.1	2.7	2.5	2.3	2.2	2.	1.8	1.5	1.2	1.
1000	6.	6.	5.9	5.5	5.0	4.7	4.4	4.	3.5	3.	2.5	2.
1500	8.8	8.8	8.7	8.2	7.5	7.2	6.6	6.1	5.2	4.5	3.7	3.
2000	11.6	11.6	11.5	11.	10.1	9.5	8.8	8.	6.9	6.	5.	4.1
2500	14.4	14.4	14.2	13.7	12.6	11.9	10.9	9.8	8.6	7.5	6.2	5.1
3000	17.3	17.3	17.	16.5	15.2	14.3	13.1	11.7	10.4	9.	7.5	6.2
3500	20.1	20.1	19.7	19.2	17.7	16.6	15.3	13.5	12.1	10.5	8.7	7.3
4000	23.	23.	22.5	22.	20.3	19.	17.5	15.4	13.9	12.	10.	8.4
4500	25.8	25.8	25.2	24.7	22.9	21.3	19.7	17.2	15.6	13.5	11.2	9.5
5000	28.7	28.7	28.	27.5	25.5	23.7	21.9	19.1	17.4	15.	12.5	10.6
5500	31.7	31.7	31.	30.3	28.1	26.2	24.1	21.1	19.2	16.6	13.8	11.7
6000	34.7	34.7	34.	33.1	30.8	28.7	26.3	23.1	21.1	18.2	15.1	12.9
6500	37.7	37.7	37.	35.9	33.5	31.2	28.5	25.1	22.9	19.8	16.5	14.
7000	40.7	40.7	40.	38.7	36.2	33.7	30.8	27.1	24.8	21.4	17.9	15.2
7500	43.7	43.7	43.	41.5	38.9	36.2	33.	29.1	26.6	23.	19.3	16.3
8000	46.7	46.7	46.	44.3	41.6	38.7	35.3	31.2	28.5	24.6	20.7	17.5
8500	49.9	49.8	49.1	47.1	44.4	41.3	37.7	33.4	30.4	26.3	22.2	18.6
9000	53.2	53.	52.3	50.2	47.3	43.9	40.	35.6	32.4	28.1	23.7	20.1
9500	56.4	56.1	55.4	53.4	50.1	46.5	42.5	37.8	34.3	29.8	25.3	21.4
10000	59.7	59.3	58.6	56.5	53.	49.1	45.	40.1	36.3	31.6	26.9	22.7
10500	62.9	62.5	61.7	59.5	55.9	51.7	47.5	42.3	38.2	33.4	28.5	24.
11000	66.2	65.7	64.9	62.6	58.8	54.4	50.	44.6	40.2	35.2	30.1	25.3
11500	69.6	69.	68.1	65.7	61.8	57.2	52.6	46.9	42.2	37.	31.7	26.6
12000	73.	72.4	71.4	68.8	64.8	60.	55.3	49.3	44.3	38.8	33.4	28.1
12500	76.4	75.7	74.6	71.9	67.8	62.8	57.9	51.6	46.3	40.7	35.1	29.5
13000	79.8	79.1	77.9	75.	70.8	65.7	60.6	54.	48.6	42.6	36.8	30.9
13500	83.2	82.4	81.1	78.1	73.8	68.5	63.3	56.4	50.8	44.6	38.5	32.3
14000	86.6	85.8	84.4	81.2	76.8	71.4	66.	58.9	53.	46.6	40.3	33.7
14500	90.	89.2	87.8	84.4	79.9	74.4	68.8	61.4	55.2	48.7	42.1	35.1
15000	93.5	92.7	91.2	87.6	83.	77.4	71.6	64.	57.6	50.7	44.	36.7
15500	96.9	96.1	94.6	90.8	86.1	80.4	74.4	66.6	59.9	52.7	45.8	38.2
16000	100.4	99.6	98.	94.	89.2	83.4	77.2	69.3	62.2	54.8	47.7	39.7
16500	103.8	103.	101.4	97.2	92.3	86.4	80.	71.9	64.6	56.9	49.5	41.2
17000	107.3	106.5	104.8	100.4	95.4	89.4	82.8	74.6	67.	59.1	51.4	42.7
17500	110.8	110.	108.2	103.7	98.6	92.5	85.7	77.3	69.5	61.3	53.3	44.2
18000	114.4	113.5	111.7	107.	101.8	95.6	88.6	80.1	72.	63.5	55.2	46.
18500	117.9	117.	115.1	110.3	105.	98.7	91.5	82.8	74.6	65.7	57.1	47.5
19000	121.5	120.6	118.6	113.6	108.2	101.8	94.4	85.6	77.2	67.9	59.1	49.3
19500	125.	124.1	122.1	116.9	111.4	104.9	97.3	88.3	79.8	70.1	61.1	50.9
20000	128.6	127.7	125.6	120.2	114.7	108.	100.2	91.1	82.4	72.4	63.1	52.6

Correction in Feet, to Altitude of Barometer in Inches, at Lower Station. [TABLE XXI.]

Diff. of Altitude	16 in.	18 in.	20 in.	22 in.	24 in.	26 in.	28 in.	30 in.	Diff. of Altitude.	16 in.	18 in.	20 in.	22 in.	24 in.	26 in.	28 in.	30 in.
500	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	10500	17.4	14.6	11.7	9.	6.6	4.4	2.3	0.3
1000	1.7	1.4	1.1	0.9	0.6	0.4	0.2	0.0	11000	18.3	15.3	12.2	9.5	6.9	4.6	2.4	0.3
1500	2.5	2.1	1.7	1.3	0.9	0.6	0.3	0.0	11500	19.1	16.	12.8	9.9	7.2	4.8	2.5	0.4
2000	3.3	2.8	2.2	1.7	1.3	0.8	0.4	0.1	12000	19.9	16.7	13.3	10.3	7.6	5.	2.6	0.4
2500	4.2	3.5	2.8	2.2	1.6	1.1	0.6	0.1	12500	20.8	17.4	13.9	10.8	7.9	5.2	2.8	0.4
3000	5.	4.2	3.3	2.6	1.9	1.3	0.7	0.1	13000	21.6	18.1	14.4	11.2	8.2	5.5	2.9	0.4
3500	5.8	4.9	3.9	3.	2.2	1.5	0.8	0.1	13500	22.4	18.8	15.	11.6	8.5	5.7	3.	0.4
4000	6.6	5.6	4.4	3.4	2.5	1.7	0.9	0.1	14000	23.2	19.4	15.5	12.	8.8	5.9	3.1	0.4
4500	7.5	6.2	5.	3.9	2.8	1.9	1.0	0.1	14500	24.1	20.1	16.	12.5	9.1	6.1	3.2	0.4
5000	8.3	6.9	5.5	4.3	3.2	2.1	1.1	0.2	15000	24.9	20.8	16.6	12.9	9.5	6.3	3.3	0.5
5500	9.1	7.6	6.1	4.7	3.5	2.3	1.2	0.2	15500	25.7	21.5	17.2	13.3	9.8	6.5	3.4	0.5
6000	10.	8.3	6.7	5.2	3.8	2.5	1.3	0.2	16000	26.6	22.2	17.8	13.8	10.1	6.7	3.5	0.5
6500	10.8	9.	7.2	5.6	4.1	2.7	1.4	0.2	16500	27.4	22.9	18.3	14.2	10.4	6.9	3.6	0.5
7000	11.6	9.7	7.8	6.	4.4	2.9	1.5	0.2	17000	28.2	23.6	18.9	14.6	10.7	7.1	3.7	0.5
7500	12.4	10.4	8.3	6.5	4.7	3.2	1.7	0.2	17500	29.0	24.3	19.4	15.	11.	7.4	3.9	0.5
8000	13.3	11.1	8.9	6.9	5.	3.4	1.8	0.2	18000	29.9	25.	20.	15.5	11.3	7.6	4.	0.6
8500	14.1	11.8	9.4	7.3	5.4	3.6	1.9	0.3	18500	30.7	25.7	20.5	15.9	11.7	7.8	4.1	0.6
9000	14.9	12.5	10.	7.7	5.7	3.8	2.	0.3	19000	31.5	26.4	21.1	16.3	12.	8.	4.2	0.6
9500	15.8	13.2	10.5	8.2	6.	4.	2.1	0.3	19500	32.4	27.1	21.6	16.8	12.3	8.2	4.3	0.6
10000	16.6	13.9	11.1	8.6	6.3	4.2	2.2	0.3	20000	33.2	27.8	22.2	17.2	12.6	8.4	4.4	0.6

Corrections in Decimals of an Inch to readings of the Barometer, at 32° Faht. taken at the hours indicated in the first Column.

Mean Time.	January.	February.	March.	April.	May.	June.	Mean Reading.
h. m.							ins.
Midn. 29	— .046	— .022	— .021	— .028	— .042	— .121	23 .177
1 29	— .043	— .016	— .012	— .017	— .052	— .129	.170
2 29	— .038	— .005	.000	— .006	— .070	— .137	.161
3 29	— .028	— .004	— .010	.000	— .063	— .139	.154
4 29	— .022	— .007	— .014	— .001	— .058	— .137	.152
5 29	— .025	— .006	— .007	— .005	— .051	— .130	.158
6 29	— .029	— .004	.000	— .017	— .038	— .120	.167
7 29	— .043	— .016	— .015	— .031	— .025	— .109	.180
8 29	— .063	— .033	— .031	— .047	+ .014	+ .099	.195
9 29	— .079	— .048	— .044	— .058	+ .006	+ .092	.207
10 29	— .083	— .056	— .050	— .063	+ .002	+ .089	.212
11 29	— .077	— .053	— .050	— .060	+ .003	+ .090	.209
Noon 29	— .058	— .040	— .040	— .053	+ .009	+ .096	23 .198
1 29	— .045	— .025	— .026	— .042	+ .019	+ .104	.188
2 29	— .037	— .013	— .014	— .027	+ .032	+ .115	.176
3 29	— .033	— .006	— .006	— .016	+ .045	+ .125	.167
4 29	— .032	— .004	— .003	— .013	+ .053	+ .136	.162
5 29	— .034	— .006	— .006	— .011	+ .056	+ .137	.162
6 29	— .041	— .011	— .011	— .017	+ .052	+ .133	.168
7 29	— .047	— .020	— .021	— .028	+ .044	+ .128	.166
8 29	— .052	— .027	— .030	— .038	+ .036	+ .120	.184
9 29	— .059	— .031	— .035	— .042	+ .031	+ .113	.189
10 29	— .057	— .031	— .035	— .041	+ .032	+ .111	.189
11 29	— .054	— .028	— .030	— .037	+ .038	+ .113	.185

Mean Time.	July.	August.	September.	October.	November.	December.	Mean Reading.
h. m.							ins.
Midn. 29	+ .117	+ .087	+ .003	— .081	— .101	— .057	23 .190
1 29	+ .125	+ .097	+ .009	— .074	— .094	— .052	.183
2 29	+ .133	+ .104	+ .016	— .066	— .085	— .047	.176
3 29	+ .139	+ .109	+ .020	— .060	— .080	— .040	.170
4 29	+ .139	+ .108	+ .018	— .061	— .077	— .033	.169
5 29	+ .133	+ .103	+ .011	— .067	— .083	— .037	.175
6 29	+ .125	+ .096	+ .001	— .076	— .093	— .048	.184
7 29	+ .114	+ .085	— .012	— .091	— .109	— .062	.198
8 29	+ .106	+ .076	— .025	— .107	— .125	— .082	.211
9 29	+ .101	+ .068	— .034	— .117	— .136	— .098	.221
10 29	+ .097	+ .064	— .037	— .119	— .138	— .102	.224
11 29	+ .100	+ .067	— .033	— .112	— .127	— .091	.218
Noon 29	+ .106	+ .074	— .025	— .099	— .112	— .077	23 .207
1 29	+ .115	+ .085	— .012	— .085	— .099	— .063	.195
2 29	+ .127	+ .097	+ .003	— .076	— .092	— .053	.184
3 29	+ .138	+ .108	+ .011	— .071	— .087	— .049	.177
4 29	+ .147	+ .114	+ .014	— .072	— .085	— .047	.173
5 29	+ .151	+ .115	+ .014	— .074	— .088	— .048	.173
6 29	+ .144	+ .109	+ .010	— .082	— .096	— .058	.181
7 29	+ .134	+ .098	+ .001	— .089	— .103	— .064	.189
8 20	+ .125	+ .087	— .008	— .096	— .108	— .072	.197
9 29	+ .115	+ .079	— .011	— .098	— .111	— .075	.202
10 29	+ .110	+ .076	— .010	— .096	— .110	— .074	.202
11 29	+ .110	+ .078	— .007	— .090	— .104	— .068	.199

The corrections in this Table are the differences between the mean reading at each hour of observation, for the years 1843, 1844, and 1845, at the Simla Magnetic Observatory, and the true mean of all the readings taken during those years; the signs of the differences having been changed, the numbers are to be applied with their signs as entered in the Table, to readings taken at the corresponding hours of observation in the first column; the result will be an approximation to a mean reading of the Barometer at the place of observation. Each reading must be first corrected and reduced to 32° Fahrenheit before applying the tabular number. The height of the Simla Observatory is about 7000 feet, and the use of this Table is limited to the mountains in the neighbouring Provinces. The numbers in the last column of the Table are the mean readings at the Hour of Mean Time, in column I. for the six months from January to June, and from July to December inclusive, respectively, for the three years above mentioned.

Approximate Height in Feet Corresponding to the Observed Boiling point

Boiling point Deg. F.	Height of Barom.	Approx. Height in Feet.	Boiling point Deg. F.	Height of Barom.	Approx. Height in Feet.	Boiling point Deg. F.	Height of Barom.	Approx. Height in Feet.	Boiling point Deg. F.	Height of Barom.	Approx. Height in Feet.
°	ins.		°	ins.		°	ins.		°	ins.	
212.0	29.921		206.0	26.521	3151	200.0	23.461	6354	194.0	20.690	9638
.9	.862	52	.9	.468	3204	.9	.413	6408	.9	.647	9693
.8	.802	104	.8	.415	3257	.8	.365	6462	.8	.603	9749
.7	.743	156	.7	.361	3310	.7	.317	6516	.7	.560	9804
.6	.684	208	.6	.308	3363	.6	.269	6570	.6	.516	9859
.5	.625	260	.5	.255	3415	.5	.221	6624	.5	.473	9914
.4	.565	312	.4	.202	3468	.4	.172	6678	.4	.429	9970
.3	.506	365	.3	.149	3521	.3	.124	6732	.3	.386	10025
.2	.447	417	.2	.095	3574	.2	.076	6786	.2	.342	10081
.1	.387	470	.1	26.042	3627	.1	23.028	6840	.1	.299	10137
211.0	29.329	522	205.0	25.989	3680	199.0	22.980	6895	193.0	20.255	10193
.9	.270	575	.9	.937	3733	.9	.933	6949	.9	.212	10249
.8	.212	627	.8	.884	3786	.8	.885	7003	.8	.170	10304
.7	.153	679	.7	.832	3839	.7	.838	7058	.7	.127	10360
.6	.095	732	.6	.780	3892	.6	.791	7112	.6	.084	10415
.5	29.037	784	.5	.728	3945	.5	.744	7166	.5	20.042	10470
.4	28.979	836	.4	.675	3998	.4	.696	7220	.4	19.999	10526
.3	.921	888	.3	.623	4051	.3	.649	7275	.3	.956	10582
.2	.862	941	.2	.571	4104	.2	.602	7329	.2	.913	10638
.1	.804	994	.1	.518	4157	.1	.554	7384	.1	.871	10694
210.0	28.746	1046	204.0	25.466	4210	198.0	22.507	7439	192.0	19.828	10750
.9	.689	1099	.9	.415	4263	.9	.461	7493	.9	.786	10806
.8	.632	1151	.8	.363	4316	.8	.414	7548	.8	.744	10861
.7	.574	1204	.7	.312	4369	.7	.368	7602	.7	.702	10917
.6	.517	1256	.6	.260	4423	.6	.321	7656	.6	.660	10972
.5	.460	1308	.5	.209	4476	.5	.275	7710	.5	.619	11028
.4	.403	1361	.4	.158	4529	.4	.228	7765	.4	.577	11084
.3	.346	1413	.3	.106	4582	.3	.182	7820	.3	.535	11139
.2	.288	1466	.2	.055	4635	.2	.135	7874	.2	.493	11195
.1	.231	1518	.1	25.003	4688	.1	.089	7929	.1	.451	11251
209.0	28.174	1571	203.0	24.952	4741	197.0	22.042	7984	191.0	19.409	11307
.9	.118	1623	.9	.902	4795	.9	21.996	8039	.9	.368	11363
.8	.062	1676	.8	.851	4848	.8	.950	8093	.8	.327	11419
.7	28.006	1728	.7	.801	4902	.7	.905	8148	.7	.286	11475
.6	27.950	1780	.6	.750	4956	.6	.859	8203	.6	.245	11531
.5	.894	1833	.5	.700	5009	.5	.813	8258	.5	.204	11587
.4	.837	1886	.4	.649	5063	.4	.767	8313	.4	.162	11643
.3	.781	1939	.3	.599	5116	.3	.721	8368	.3	.121	11699
.2	.725	1992	.2	.548	5170	.2	.676	8423	.2	.080	11755
.1	.669	2044	.1	.498	5224	.1	.630	8478	.1	19.039	11811
208.0	27.613	2097	202.0	24.447	5278	196.0	21.584	8533	190.0	18.998	11867
.9	.558	2149	.9	.397	5332	.9	.539	8588	.9	.958	11923
.8	.503	2201	.8	.348	5385	.8	.494	8643	.8	.917	11979
.7	.448	2254	.7	.298	5438	.7	.449	8698	.7	.877	12035
.6	.393	2306	.6	.248	5492	.6	.404	8753	.6	.837	12091
.5	.338	2359	.5	.199	5545	.5	.359	8808	.5	.797	12147
.4	.282	2412	.4	.149	5599	.4	.313	8863	.4	.756	12203
.3	.227	2465	.3	.099	5653	.3	.268	8918	.3	.716	12258
.2	.172	2518	.2	.049	5707	.2	.223	8973	.2	.676	12314
.1	.117	2571	.1	24.000	5761	.1	.178	9029	.1	.635	12370
207.0	.062	2624	201.0	23.950	5815	195.0	21.133	9084	189.0	18.595	12426
.9	27.008	2676	.9	.901	5869	.9	.089	9140	.9	.555	12482
.8	26.954	2728	.8	.852	5923	.8	.044	9195	.8	.516	12538
.7	.900	2781	.7	.803	5976	.7	21.000	9250	.7	.476	12594
.6	.846	2833	.6	.754	6030	.6	20.956	9305	.6	.437	12650
.5	.792	2886	.5	.706	6084	.5	.912	9360	.5	.397	12706
.4	.737	2939	.4	.657	6138	.4	.867	9416	.4	.357	12762
.3	.683	2992	.3	.608	6192	.3	.823	9471	.3	.318	12818
.2	.629	3045	.2	.559	6246	.2	.778	9527	.2	.278	12874
.1	.575	3098	.1	.510	6300	.1	.734	9582	.1	.239	12931
206.0	26.521	3151	200.0	23.461	6354	194.0	20.690	9638	188.0	18.199	12988

in Degrees Fahrenheit.

Boiling point Deg. F.	Height of Barom.	Approx. Height in Feet.	Boiling point Deg. F.	Height of Barom.	Approx. Height in Feet.
°	ins.		°	ins.	
188.0	18.199	12988	182.0	15.964	16412
.9	.160	13045	.9	.929	16470
.8	.121	13102	.8	.894	16528
.7	.082	13158	.7	.860	16585
.6	.043	13215	.6	.825	16642
.5	18.004	13272	.5	.790	16700
.4	17.965	13328	.4	.755	16757
.3	.926	13385	.3	.720	16815
.2	.887	13442	.2	.686	16873
.1	.848	13499	.1	.651	16931
187.0	17.809	13556	181.0	15.616	16989
.9	.771	13612	.9	.582	17047
.8	.732	13669	.8	.548	17104
.7	.694	13726	.7	.514	17162
.6	.656	13783	.6	.480	17219
.5	.618	13839	.5	.446	17277
.4	.579	13896	.4	.411	17335
.3	.541	13953	.3	.377	17393
.2	.503	14010	.2	.343	17451
.1	.464	14067	.1	.309	17509
186.0	17.426	14124	180.0	15.275	17567
.9	.388	14181	.9	.242	17624
.8	.351	14237	.8	.208	17682
.7	.313	14294	.7	.175	17739
.6	.276	14351	.6	.141	17797
.5	.238	14408	.5	.108	17855
.4	.200	14465	.4	.074	17913
.3	.163	14522	.3	.041	17971
.2	.125	14579	.2	15.007	18029
.1	.088	14637	.1	.974	18087
185.0	17.050	14694	179.0	14.940	18145
.9	17.013	14751	.9	.907	18203
.8	16.976	14808	.8	.874	18261
.7	.939	14865	.7	.841	18319
.6	.902	14923	.6	.808	18377
.5	.865	14980	.5	.776	18435
.4	.829	15037	.4	.743	18493
.3	.792	15094	.3	.710	18551
.2	.755	15151	.2	.677	18609
.1	.718	15209	.1	.644	18667
184.0	16.681	15266	178.0	14.611	18725
.9	.645	15323	.9	.579	18784
.8	.609	15381	.8	.546	18842
.7	.572	15438	.7	.514	18901
.6	.536	15495	.6	.482	18960
.5	.500	15553	.5	.450	19019
.4	.464	15610	.4	.417	19077
.3	.428	15667	.3	.385	19136
.2	.391	15725	.2	.353	19194
.1	.355	15782	.1	.320	19253
183.0	16.319	15839	177.0	14.288	19311
.9	.284	15896	.9	.256	19370
.8	.248	15953	.8	.224	19428
.7	.213	16010	.7	.193	19487
.6	.177	16067	.6	.161	19545
.5	.142	16124	.5	.129	19604
.4	.106	16182	.4	.097	19662
.3	.071	16239	.3	.065	19721
.2	.035	16297	.2	.034	19779
.1	16.000	16355	.1	14.002	19838
182.0	15.964	16412	176.0	13.970	19897

Multprs. for Mean Temp. of the Stratum of Air passed thro'.

Mn. T. of Air. Deg F.	Mltpr.	Mn. T. of Air Deg F.	Mltpr.	Mn. T. of Air. Deg F.	Mltpr.
0.0	0.933	30.	0.996	60.	1.058
0.5	.934	30.5	.997	60.5	1.059
1.	.935	31.	.998	61.	1.060
1.5	.936	31.5	0.999	61.5	1.061
2.	.938	32.	1.000	62.	1.062
2.5	.939	32.5	1.001	62.5	1.063
3.	.940	33.	1.002	63.	1.065
3.5	.941	33.5	1.003	63.5	1.066
4.	.942	34.	1.004	64.	1.067
4.5	.943	34.5	1.005	64.5	1.068
5.	0.944	35.	1.006	65.	1.069
5.5	.945	35.5	1.007	65.5	1.070
6.	.946	36.	1.008	66.	1.071
6.5	.947	36.5	1.009	66.5	1.072
7.	.948	37.	1.010	67.	1.073
7.5	.949	37.5	1.011	67.5	1.074
8.	.950	38.	1.013	68.	1.075
8.5	.951	38.5	1.014	68.5	1.076
9.	.952	39.	1.015	69.	1.077
9.5	.953	39.5	1.016	69.5	1.078
10.	0.954	40.	1.017	70.	1.079
10.5	.955	40.5	1.018	70.5	1.080
11.	.956	41.	1.019	71.	1.081
11.5	.957	41.5	1.020	71.5	1.082
12.	.958	42.	1.021	72.	1.083
12.5	.959	42.5	1.022	72.5	1.084
13.	.960	43.	1.023	73.	1.085
13.5	.961	43.5	1.024	73.5	1.086
14.	.963	44.	1.025	74.	1.087
14.5	.964	44.5	1.026	74.5	1.089
15.	0.965	45.	1.027	75.	1.090
15.5	.966	45.5	1.028	75.5	1.091
16.	.967	46.	1.029	76.	1.092
16.5	.968	46.5	1.030	76.5	1.093
17.	.969	47.	1.031	77.	1.094
17.5	.970	47.5	1.032	77.5	1.095
18.	.971	48.	1.033	78.	1.096
18.5	.972	48.5	1.034	78.5	1.097
19.	.973	49.	1.035	79.	1.098
19.5	.974	49.5	1.036	79.5	1.099
20.	0.975	50.	1.038	80.	1.100
20.5	.976	50.5	1.039	80.5	1.101
21.	.977	51.	1.040	81.	1.102
21.5	.978	51.5	1.041	81.5	1.103
22.	.979	52.	1.042	82.	1.104
22.5	.980	52.5	1.043	82.5	1.105
23.	.981	53.	1.044	83.	1.106
23.5	.982	53.5	1.045	83.5	1.107
24.	.983	54.	1.046	84.	1.108
24.5	.984	54.5	1.047	84.5	1.109
25.	0.985	55.	1.048	85.	1.110
25.5	.986	55.5	1.049	85.5	1.111
26.	.988	56.	1.050	86.	1.113
26.5	.989	56.5	1.051	86.5	1.114
27.	.990	57.	1.052	87.	1.115
27.5	.991	57.5	1.053	87.5	1.116
28.	.992	58.	1.054	88.	1.117
28.5	.993	58.5	1.055	88.5	1.118
29.	.994	59.	1.056	89.	1.119
29.5	.995	59.5	1.057	89.5	1.120
30.	0.996	60.	1.058	90.	1.121

Depn. W. B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W. B. Thermr.
	14 in.	15 in.	16 in.	17 in.	18 in.	19 in.	20 in.	21 in.	22 in.	
°										°
0.0										0.0
.1	.00054	.00057	.00061	.00065	.00069	.00073	.00076	.00080	.00084	.1
.2	.00107	.00115	.00122	.00130	.00137	.00145	.00153	.00161	.00168	.2
.3	.00161	.00172	.00183	.00195	.00206	.00218	.00230	.00241	.00252	.3
.4	.00214	.00229	.00245	.00260	.00275	.00291	.00306	.00322	.00336	.4
.5	.00268	.00287	.00306	.00325	.00344	.00363	.00382	.00402	.00420	.5
.6	.00321	.00344	.00367	.00390	.00413	.00436	.00459	.00482	.00505	.6
.7	.00375	.00401	.00428	.00455	.00482	.00509	.00535	.00562	.00589	.7
.8	.00428	.00459	.00489	.00520	.00551	.00581	.00612	.00642	.00673	.8
.9	.00481	.00516	.00551	.00585	.00619	.00654	.00688	.00723	.00757	.9
1.0	.00535	.00574	.00612	.00650	.00688	.00726	.00764	.00803	.00841	1.0
.1	.00589	.00631	.00673	.00715	.00757	.00799	.00841	.00883	.00925	.1
.2	.00642	.00688	.00734	.00780	.00826	.00872	.00918	.00963	.01009	.2
.3	.00696	.00745	.00795	.00845	.00895	.00944	.00994	.01044	.01093	.3
.4	.00750	.00803	.00856	.00910	.00963	.01017	.01071	.01124	.01178	.4
.5	.00803	.00860	.00918	.00975	.01032	.01090	.01147	.01204	.01262	.5
.6	.00856	.00918	.00979	.01040	.01101	.01162	.01223	.01285	.01346	.6
.7	.00910	.00975	.01040	.01105	.01170	.01235	.01300	.01365	.01430	.7
.8	.00963	.01032	.01101	.01170	.01239	.01308	.01376	.01445	.01514	.8
.9	.01017	.01090	.01162	.01235	.01308	.01380	.01453	.01526	.01598	.9
2.0	.01071	.01147	.01223	.01300	.01376	.01453	.01529	.01606	.01682	2.0
.1	.01124	.01204	.01285	.01365	.01445	.01526	.01606	.01686	.01766	.1
.2	.01178	.01262	.01346	.01430	.01514	.01598	.01682	.01766	.01851	.2
.3	.01231	.01319	.01407	.01495	.01583	.01671	.01759	.01847	.01935	.3
.4	.01285	.01376	.01468	.01560	.01652	.01743	.01835	.01927	.02019	.4
.5	.01338	.01433	.01529	.01625	.01721	.01816	.01912	.02007	.02103	.5
.6	.01392	.01491	.01590	.01690	.01789	.01889	.01988	.02088	.02187	.6
.7	.01445	.01548	.01652	.01755	.01858	.01961	.02065	.02168	.02271	.7
.8	.01499	.01606	.01713	.01820	.01927	.02034	.02141	.02248	.02355	.8
.9	.01552	.01663	.01774	.01885	.01996	.02107	.02218	.02328	.02439	.9
3.0	.01606	.01721	.01835	.01950	.02065	.02179	.02294	.02409	.02523	3.0
.1	.01659	.01778	.01896	.02015	.02133	.02252	.02370	.02489	.02608	.1
.2	.01713	.01835	.01958	.02080	.02202	.02325	.02447	.02569	.02692	.2
.3	.01766	.01893	.02019	.02145	.02271	.02397	.02523	.02650	.02776	.3
.4	.01820	.01950	.02080	.02210	.02340	.02470	.02600	.02730	.02860	.4
.5	.01873	.02007	.02141	.02275	.02409	.02543	.02676	.02810	.02944	.5
.6	.01927	.02065	.02202	.02340	.02478	.02615	.02753	.02891	.03028	.6
.7	.01981	.02122	.02263	.02405	.02546	.02688	.02829	.02971	.03112	.7
.8	.02034	.02179	.02325	.02470	.02615	.02760	.02906	.03051	.03196	.8
.9	.02088	.02237	.02386	.02535	.02684	.02833	.02982	.03131	.03281	.9
4.0	.02141	.02294	.02447	.02600	.02753	.02906	.03059	.03212	.03365	4.0
.1	.02195	.02351	.02508	.02665	.02822	.02978	.03135	.03292	.03449	.1
.2	.02248	.02409	.02569	.02730	.02890	.03051	.03212	.03372	.03533	.2
.3	.02302	.02466	.02630	.02795	.02959	.03124	.03288	.03453	.03617	.3
.4	.02355	.02523	.02692	.02860	.03028	.03196	.03365	.03533	.03701	.4
.5	.02409	.02581	.02753	.02925	.03097	.03269	.03441	.03613	.03785	.5
.6	.02462	.02638	.02814	.02990	.03166	.03342	.03518	.03693	.03869	.6
.7	.02516	.02695	.02875	.03055	.03234	.03414	.03594	.03774	.03953	.7
.8	.02569	.02753	.02936	.03120	.03303	.03487	.03671	.03854	.04038	.8
.9	.02623	.02810	.02997	.03185	.03372	.03560	.03747	.03934	.04122	.9
5.0	.02676	.02867	.03059	.03250	.03441	.03632	.03823	.04015	.04206	5.0
.1	.02730	.02925	.03120	.03315	.03510	.03705	.03900	.04095	.04290	.1
.2	.02783	.02982	.03181	.03380	.03579	.03777	.03976	.04175	.04374	.2
.3	.02837	.03040	.03242	.03445	.03647	.03850	.04053	.04256	.04458	.3
.4	.02890	.03097	.03303	.03510	.03716	.03923	.04129	.04336	.04542	.4
.5	.02944	.03154	.03365	.03575	.03785	.03995	.04206	.04416	.04626	.5
.6	.02998	.03212	.03426	.03640	.03854	.04068	.04282	.04496	.04711	.6
.7	.03051	.03269	.03487	.03705	.03923	.04140	.04359	.04577	.04795	.7
.8	.03105	.03326	.03548	.03770	.03992	.04213	.04435	.04657	.04879	.8
.9	.03158	.03384	.03609	.03835	.04060	.04286	.04512	.04737	.04963	.9
6.0	.03212	.03441	.03670	.03900	.04129	.04359	.04588	.04818	.05047	6.0

Depn. W.B Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W.B Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
c										°
0.0										0.0
.1	0	1	1	2	2	2	3	3	3	.1
.2	1	2	2	3	4	5	5	6	7	.2
.3	1	2	3	5	6	7	8	9	10	.3
.4	2	3	5	6	8	9	11	12	14	.4
.5	2	4	6	8	10	11	13	15	17	.5
.6	2	5	7	9	11	14	16	18	21	.6
.7	3	5	8	11	13	16	19	21	24	.7
.8	3	6	9	12	15	18	21	24	28	.8
.9	3	7	10	14	17	21	24	28	31	.9
1.0	4	8	11	15	19	23	27	31	34	1.0
.1	4	8	13	17	22	26	29	34	38	.1
.2	5	9	14	19	23	28	33	37	42	.2
.3	5	10	15	20	25	30	35	40	45	.3
.4	5	11	16	21	28	32	37	43	48	.4
.5	6	11	17	23	29	34	40	46	52	.5
.6	6	12	18	24	31	37	43	49	55	.6
.7	7	13	20	26	33	39	46	52	59	.7
.8	7	14	21	28	34	41	48	55	62	.8
.9	7	15	22	29	36	44	51	58	65	.9
2.0	7	15	22	30	37	45	52	60	67	2.0
.1	8	16	24	32	40	48	56	64	72	.1
.2	8	17	25	34	42	50	59	67	76	.2
.3	9	18	26	35	44	53	62	70	79	.3
.4	9	18	28	37	46	55	64	73	83	.4
.5	10	19	29	38	48	57	67	76	86	.5
.6	10	20	30	40	50	60	70	80	89	.6
.7	10	21	31	41	52	62	72	83	93	.7
.8	11	21	32	43	54	64	75	86	96	.8
.9	11	22	33	44	55	67	78	89	100	.9
3.0	11	23	34	46	57	69	80	92	103	3.0
.1	12	24	36	47	59	71	83	95	107	.1
.2	12	24	37	49	61	73	86	98	110	.2
.3	13	25	38	50	63	76	88	101	113	.3
.4	13	26	39	52	65	78	91	104	117	.4
.5	13	27	40	54	67	80	94	107	120	.5
.6	14	28	41	55	69	83	96	110	124	.6
.7	14	28	42	56	71	85	99	113	127	.7
.8	15	29	44	58	73	87	102	116	131	.8
.9	15	30	45	60	75	89	104	119	135	.9
4.0	15	31	46	61	76	92	107	122	138	4.0
.1	16	31	47	63	78	94	110	125	141	.1
.2	16	32	48	64	80	96	112	128	145	.2
.3	16	33	49	66	82	99	115	132	148	.3
.4	17	34	50	67	84	101	118	135	151	.4
.5	17	34	52	69	86	103	120	138	155	.5
.6	18	35	53	70	88	106	123	141	158	.6
.7	18	36	54	72	90	108	126	144	162	.7
.8	18	37	55	73	92	110	128	147	165	.8
.9	19	37	56	75	94	112	131	150	169	.9
5.0	19	38	57	76	96	115	134	153	172	5.0
.1	20	39	59	78	98	117	137	156	176	.1
.2	20	40	60	80	99	119	139	159	179	.2
.3	20	41	61	81	101	122	142	162	182	.3
.4	21	41	62	83	103	124	145	165	186	.4
.5	21	42	63	84	105	126	147	168	189	.5
.6	21	43	64	86	107	128	150	171	193	.6
.7	22	44	65	87	109	131	153	174	196	.7
.8	22	44	67	89	111	133	155	177	200	.8
.9	23	45	68	90	113	135	158	180	203	.9
6.0	23	46	69	92	115	138	161	184	206	6.0

Depn. W.B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W.B. Thermr.
	23 in.	24 in.	25 in.	26 in.	27 in.	28 in.	29 in.	30 in.	31 in.	
°										°
0.0										0.0
.1	.00088	.00092	.00096	.00099	.00103	.00107	.00111	.00115	.00118	.1
.2	.00176	.00183	.00191	.00199	.00206	.00214	.00222	.00229	.00237	.2
.3	.00264	.00275	.00287	.00298	.00310	.00321	.00333	.00344	.00356	.3
.4	.00352	.00367	.00383	.00398	.00413	.00428	.00443	.00459	.00474	.4
.5	.00440	.00459	.00479	.00497	.00516	.00535	.00554	.00574	.00593	.5
.6	.00528	.00551	.00573	.00596	.00619	.00642	.00665	.00688	.00711	.6
.7	.00616	.00642	.00669	.00696	.00723	.00749	.00776	.00803	.00830	.7
.8	.00703	.00734	.00765	.00795	.00826	.00856	.00887	.00918	.00948	.8
.9	.00791	.00826	.00860	.00895	.00929	.00963	.00998	.01032	.01067	.9
1.0	.00879	.00918	.00956	.00994	.01032	.01071	.01109	.01147	.01185	1.0
.1	.00967	.01009	.01051	.01093	.01136	.01178	.01220	.01262	.01304	.1
.2	.01055	.01101	.01147	.01193	.01239	.01285	.01331	.01376	.01422	.2
.3	.01143	.01193	.01243	.01292	.01342	.01392	.01441	.01491	.01541	.3
.4	.01231	.01285	.01338	.01392	.01445	.01499	.01552	.01606	.01660	.4
.5	.01319	.01376	.01434	.01491	.01548	.01606	.01663	.01721	.01778	.5
.6	.01407	.01468	.01529	.01591	.01652	.01713	.01774	.01835	.01896	.6
.7	.01495	.01560	.01625	.01690	.01755	.01820	.01885	.01950	.02015	.7
.8	.01583	.01652	.01721	.01789	.01858	.01927	.01996	.02065	.02133	.8
.9	.01671	.01743	.01816	.01889	.01961	.02034	.02107	.02179	.02252	.9
2.0	.01759	.01835	.01912	.01988	.02065	.02141	.02218	.02294	.02371	2.0
.1	.01847	.01927	.02007	.02088	.02168	.02248	.02328	.02409	.02489	.1
.2	.01935	.02019	.02103	.02187	.02271	.02355	.02439	.02523	.02608	.2
.3	.02023	.02110	.02198	.02286	.02374	.02462	.02550	.02638	.02726	.3
.4	.02111	.02202	.02294	.02386	.02478	.02569	.02661	.02753	.02845	.4
.5	.02199	.02294	.02390	.02485	.02581	.02676	.02772	.02868	.02963	.5
.6	.02286	.02386	.02485	.02585	.02684	.02783	.02883	.02982	.03082	.6
.7	.02374	.02478	.02581	.02684	.02787	.02891	.02994	.03097	.03200	.7
.8	.02462	.02569	.02676	.02783	.02891	.02998	.03105	.03212	.03319	.8
.9	.02550	.02661	.02772	.02883	.02994	.03105	.03216	.03326	.03437	.9
3.0	.02638	.02753	.02868	.02982	.03097	.03212	.03326	.03441	.03556	3.0
.1	.02726	.02845	.02963	.03082	.03200	.03319	.03437	.03556	.03674	.1
.2	.02814	.02936	.03059	.03181	.03303	.03426	.03548	.03671	.03793	.2
.3	.02902	.03028	.03154	.03281	.03407	.03533	.03659	.03785	.03911	.3
.4	.02990	.03120	.03250	.03380	.03510	.03640	.03770	.03900	.04030	.4
.5	.03078	.03212	.03346	.03479	.03613	.03747	.03881	.04015	.04148	.5
.6	.03166	.03303	.03441	.03579	.03716	.03854	.03992	.04130	.04266	.6
.7	.03253	.03395	.03537	.03678	.03820	.03961	.04102	.04244	.04385	.7
.8	.03340	.03487	.03632	.03778	.03923	.04068	.04213	.04359	.04504	.8
.9	.03430	.03579	.03728	.03877	.04026	.04175	.04324	.04473	.04623	.9
4.0	.03518	.03671	.03823	.03976	.04129	.04282	.04435	.04588	.04741	4.0
.1	.03606	.03762	.03919	.04076	.04233	.04389	.04546	.04703	.04860	.1
.2	.03693	.03854	.04015	.04175	.04336	.04496	.04657	.04818	.04978	.2
.3	.03781	.03946	.04110	.04275	.04439	.04603	.04768	.04932	.05097	.3
.4	.03869	.04038	.04206	.04374	.04542	.04711	.04879	.05047	.05215	.4
.5	.03957	.04129	.04301	.04473	.04646	.04818	.04990	.05162	.05334	.5
.6	.04045	.04221	.04397	.04573	.04749	.04925	.05101	.05276	.05452	.6
.7	.04133	.04313	.04492	.04672	.04852	.05032	.05211	.05391	.05571	.7
.8	.04221	.04405	.04588	.04772	.04955	.05139	.05322	.05506	.05689	.8
.9	.04309	.04496	.04684	.04871	.05058	.05246	.05433	.05620	.05808	.9
5.0	.04397	.04588	.04779	.04970	.05162	.05353	.05544	.05735	.05926	5.0
.1	.04485	.04680	.04875	.05070	.05265	.05460	.05655	.05850	.06045	.1
.2	.04573	.04772	.04971	.05169	.05368	.05567	.05766	.05965	.06163	.2
.3	.04661	.04863	.05066	.05269	.05471	.05674	.05877	.06079	.06282	.3
.4	.04749	.04955	.05162	.05368	.05575	.05781	.05988	.06194	.06400	.4
.5	.04837	.05047	.05257	.05468	.05678	.05888	.06098	.06309	.06519	.5
.6	.04925	.05139	.05353	.05567	.05781	.05995	.06209	.06423	.06638	.6
.7	.05013	.05230	.05448	.05666	.05884	.06102	.06320	.06538	.06756	.7
.8	.05101	.05322	.05544	.05766	.05988	.06209	.06431	.06653	.06875	.8
.9	.05188	.05414	.05640	.05865	.06091	.06316	.06542	.06768	.06993	.9
6.0	.05276	.05506	.05735	.05965	.06104	.06423	.06652	.06882	.07112	6.0

Depn. W.B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W.B. Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
°										°
0.0										0.0
.1	0	1	1	2	2	2	3	3	3	.1
.2	1	2	2	3	4	5	5	6	7	.2
.3	1	2	3	5	6	7	8	9	10	.3
.4	2	3	5	6	8	9	11	12	14	.4
.5	2	4	6	8	10	11	13	15	17	.5
.6	2	5	7	9	11	14	16	18	21	.6
.7	3	5	8	11	13	16	19	21	24	.7
.8	3	6	9	12	15	18	21	24	28	.8
.9	3	7	10	14	17	21	24	28	31	.9
1.0	4	8	11	15	19	23	27	31	34	1.0
.1	4	8	13	17	22	26	29	34	38	.1
.2	5	9	14	19	23	28	33	37	42	.2
.3	5	10	15	20	25	30	35	40	45	.3
.4	5	11	16	21	28	32	37	43	48	.4
.5	6	11	17	23	29	34	40	46	52	.5
.6	6	12	18	24	31	37	43	49	55	.6
.7	7	13	20	26	33	39	46	52	59	.7
.8	7	14	21	28	34	41	48	55	62	.8
.9	7	15	22	29	36	44	51	58	65	.9
2.0	7	15	22	30	37	45	52	60	67	2.0
.1	8	16	24	32	40	48	56	64	72	.1
.2	8	17	25	34	42	50	59	67	76	.2
.3	9	18	26	35	44	53	62	70	79	.3
.4	9	18	28	37	46	55	64	73	83	.4
.5	10	19	29	38	48	57	67	76	86	.5
.6	10	20	30	40	50	60	70	80	89	.6
.7	10	21	31	41	52	62	72	83	93	.7
.8	11	21	32	43	54	64	75	86	96	.8
.9	11	22	33	44	55	67	78	89	100	.9
3.0	11	23	34	46	57	69	80	92	103	3.0
.1	12	24	36	47	59	71	83	95	107	.1
.2	12	24	37	49	61	73	86	98	110	.2
.3	13	25	38	50	63	76	88	101	113	.3
.4	13	26	39	52	65	78	91	104	117	.4
.5	13	27	40	54	67	80	94	107	120	.5
.6	14	28	41	55	69	83	96	110	124	.6
.7	14	28	42	56	71	85	99	113	127	.7
.8	15	29	44	58	73	87	102	116	131	.8
.9	15	30	45	60	75	89	104	119	135	.9
4.0	15	31	46	61	76	92	107	122	138	4.0
.1	16	31	47	63	78	94	110	125	141	.1
.2	16	32	48	64	80	96	112	128	145	.2
.3	16	33	49	66	82	99	115	132	148	.3
.4	17	34	50	67	84	101	118	135	151	.4
.5	17	34	52	69	86	103	120	138	155	.5
.6	18	35	53	70	88	106	123	141	158	.6
.7	18	36	54	72	90	108	126	144	162	.7
.8	18	37	55	73	92	110	128	147	165	.8
.9	19	37	56	75	94	112	131	150	169	.9
5.0	19	38	57	76	96	115	134	153	172	5.0
.1	20	39	59	78	98	117	137	156	176	.1
.2	20	40	60	80	99	119	139	159	179	.2
.3	20	41	61	81	101	122	142	162	182	.3
.4	21	41	62	83	103	124	145	165	186	.4
.5	21	42	63	84	105	126	147	168	189	.5
.6	21	43	64	86	107	128	150	171	193	.6
.7	22	44	65	87	109	131	153	174	196	.7
.8	22	44	67	89	111	133	155	177	200	.8
.9	23	45	68	90	113	135	158	180	203	.9
6.0	23	46	69	92	115	138	161	184	206	6.0

Depn. W. B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W. B. Thermr.
	14 in.	15 in.	16 in.	17 in.	18 in.	19 in.	20 in.	21 in.	22 in.	
°										°
6.0	.03212	.03441	.03670	.03900	.04129	.04359	.04588	.04818	.05047	6.0
.1	.03265	.03498	.03732	.03965	.04198	.04431	.04665	.04898	.05131	.1
.2	.03319	.03556	.03793	.04030	.04267	.04504	.04741	.04978	.05215	.2
.3	.03372	.03613	.03854	.04095	.04336	.04577	.04818	.05058	.05299	.3
.4	.03426	.03670	.03915	.04160	.04405	.04649	.04894	.05139	.05383	.4
.5	.03479	.03728	.03976	.04225	.04473	.04722	.04971	.05219	.05468	.5
.6	.03533	.03785	.04037	.04290	.04542	.04794	.05047	.05299	.05552	.6
.7	.03586	.03842	.04099	.04355	.04611	.04867	.05123	.05380	.05636	.7
.8	.03640	.03900	.04160	.04420	.04680	.04940	.05200	.05460	.05720	.8
.9	.03693	.03957	.04221	.04485	.04749	.05012	.05276	.05540	.05804	.9
7.0	.03747	.04015	.04282	.04550	.04817	.05085	.05353	.05620	.05888	7.0
.1	.03800	.04072	.04343	.04615	.04886	.05158	.05429	.05701	.05972	.1
.2	.03854	.04129	.04404	.04680	.04955	.05230	.05506	.05781	.06056	.2
.3	.03907	.04187	.04466	.04745	.05024	.05303	.05582	.05861	.06140	.3
.4	.03961	.04244	.04527	.04810	.05093	.05376	.05659	.05942	.06225	.4
.5	.04015	.04301	.04588	.04875	.05162	.05448	.05735	.06022	.06309	.5
.6	.04068	.04359	.04649	.04940	.05230	.05521	.05812	.06102	.06393	.6
.7	.04122	.04416	.04710	.05005	.05299	.05594	.05888	.06183	.06477	.7
.8	.04175	.04473	.04772	.05070	.05368	.05666	.05965	.06263	.06561	.8
.9	.04229	.04531	.04833	.05135	.05437	.05739	.06041	.06343	.06645	.9
8.0	.04282	.04588	.04894	.05200	.05506	.05811	.06118	.06423	.06729	8.0
.1	.04336	.04645	.04955	.05265	.05574	.05884	.06194	.06504	.06813	.1
.2	.04389	.04703	.05016	.05330	.05643	.05957	.06270	.06584	.06898	.2
.3	.04443	.04760	.05077	.05395	.05712	.06029	.06347	.06664	.06982	.3
.4	.04496	.04817	.05139	.05460	.05781	.06102	.06423	.06745	.07066	.4
.5	.04550	.04875	.05200	.05525	.05850	.06175	.06500	.06825	.07150	.5
.6	.04603	.04932	.05261	.05590	.05919	.06247	.06576	.06905	.07234	.6
.7	.04657	.04989	.05322	.05655	.05987	.06320	.06653	.06985	.07318	.7
.8	.04710	.05047	.05383	.05720	.06056	.06393	.06729	.07066	.07402	.8
.9	.04764	.05104	.05444	.05785	.06125	.06465	.06806	.07146	.07486	.9
9.0	.04817	.05162	.05506	.05850	.06194	.06538	.06882	.07226	.07570	9.0
.1	.04871	.05219	.05567	.05915	.06263	.06611	.06959	.07307	.07655	.1
.2	.04924	.05276	.05628	.05980	.06332	.06683	.07035	.07387	.07739	.2
.3	.04978	.05334	.05689	.06045	.06400	.06756	.07112	.07467	.07823	.3
.4	.05032	.05391	.05750	.06110	.06469	.06828	.07188	.07548	.07907	.4
.5	.05085	.05448	.05811	.06175	.06538	.06991	.07265	.07628	.07991	.5
.6	.05139	.05506	.05873	.06240	.06607	.06974	.07341	.07708	.08075	.6
.7	.05192	.05563	.05934	.06305	.06676	.07046	.07418	.07788	.08159	.7
.8	.05246	.05620	.05995	.06370	.06744	.07119	.07494	.07869	.08243	.8
.9	.05299	.05678	.06056	.06435	.06813	.07192	.07570	.07949	.08328	.9
10.0	.05353	.05735	.06117	.06500	.06882	.07264	.07647	.08029	.08412	10.0
.1	.05406	.05792	.06178	.06565	.06951	.07337	.07723	.08110	.08496	.1
.2	.05460	.05850	.06240	.06630	.07020	.07410	.07800	.08190	.08580	.2
.3	.05513	.05907	.06301	.06695	.07089	.07482	.07876	.08270	.08664	.3
.4	.05567	.05964	.06362	.06760	.07157	.07555	.07953	.08350	.08748	.4
.5	.05620	.06022	.06423	.06825	.07226	.07628	.08029	.08431	.08832	.5
.6	.05674	.06079	.06484	.06890	.07295	.07700	.08106	.08511	.08916	.6
.7	.05727	.06136	.06546	.06955	.07364	.07773	.08182	.08591	.09000	.7
.8	.05781	.06194	.06607	.07020	.07433	.07845	.08259	.08672	.09085	.8
.9	.05834	.06251	.06668	.07085	.07501	.07918	.08335	.08752	.09169	.9
11.0	.05888	.06309	.06729	.07150	.07570	.07991	.08412	.08832	.09253	11.0
.1	.05941	.06366	.06790	.07215	.07639	.08063	.08488	.08913	.09337	.1
.2	.05995	.06423	.06851	.07280	.07708	.08136	.08565	.08993	.09421	.2
.3	.06049	.06481	.06913	.07345	.07777	.08209	.08641	.09073	.09505	.3
.4	.06102	.06538	.06974	.07410	.07846	.08281	.08718	.09153	.09589	.4
.5	.06156	.06595	.07035	.07475	.07914	.08354	.08794	.09234	.09673	.5
.6	.06209	.06653	.07096	.07540	.07983	.08427	.08870	.09314	.09758	.6
.7	.06263	.06710	.07157	.07605	.08052	.08499	.08947	.09394	.09842	.7
.8	.06316	.06767	.07218	.07670	.08121	.08572	.09023	.09475	.09926	.8
.9	.06370	.06825	.07280	.07735	.08190	.08645	.09100	.09555	.10010	.9
12.0	.06423	.06882	.07341	.07800	.08258	.08717	.09176	.09635	.10094	12.0

Depn. W. B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W. B. Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
°										°
6.0	23	46	69	92	115	138	161	184	206	6.0
.1	23	47	70	93	117	140	163	187	210	.1
.2	24	47	71	95	119	142	166	190	213	.2
.3	24	48	72	96	120	145	169	193	217	.3
.4	24	49	73	98	122	147	171	196	220	.4
.5	25	50	75	99	124	149	174	199	224	.5
.6	25	50	76	101	126	151	177	202	227	.6
.7	26	51	77	102	128	154	179	205	231	.7
.8	26	52	78	104	130	156	182	208	234	.8
.9	26	53	79	103	132	158	185	211	237	.9
7.0	27	54	80	107	134	161	187	214	241	7.0
.1	27	54	81	109	136	163	190	217	244	.1
.2	28	55	83	110	138	165	193	220	248	.2
.3	28	56	84	112	140	167	195	223	251	.3
.4	28	57	85	113	141	170	198	226	255	.4
.5	29	57	86	115	143	172	201	229	258	.5
.6	29	58	87	116	145	174	203	232	262	.6
.7	29	59	88	118	147	177	206	236	265	.7
.8	30	60	89	119	149	179	209	239	268	.8
.9	30	60	81	121	151	181	211	242	272	.9
8.0	31	61	92	122	153	184	214	245	275	8.0
.1	31	62	93	124	155	186	217	248	279	.1
.2	31	63	94	125	157	188	219	251	282	.2
.3	32	63	95	127	159	190	222	254	286	.3
.4	32	64	96	128	161	193	225	257	289	.4
.5	33	65	98	130	163	195	228	260	293	.5
.6	33	66	99	132	164	197	230	263	296	.6
.7	33	67	100	133	166	200	233	266	299	.7
.8	34	67	101	135	168	202	236	269	303	.8
.9	34	68	102	136	170	204	238	272	306	.9
9.0	34	69	103	138	172	206	241	275	310	9.0
.1	35	70	104	139	174	209	244	278	313	.1
.2	35	70	106	141	176	211	246	281	317	.2
.3	36	71	107	142	178	213	249	284	320	.3
.4	36	72	108	144	180	216	253	288	323	.4
.5	36	73	109	145	182	218	254	291	327	.5
.6	37	73	110	147	184	220	257	294	330	.6
.7	37	74	111	148	185	223	260	297	334	.7
.8	37	75	112	150	187	225	262	300	337	.8
.9	38	76	114	151	189	227	265	303	341	.9
10.0	38	76	115	153	191	229	268	306	344	10.0
.1	39	77	116	154	193	232	270	309	348	.1
.2	39	78	117	156	195	234	273	312	351	.2
.3	39	79	118	158	197	236	276	315	354	.3
.4	40	80	119	159	199	239	278	318	358	.4
.5	40	80	120	161	201	241	281	321	361	.5
.6	41	81	122	162	203	243	283	324	365	.6
.7	41	82	123	164	205	245	286	327	368	.7
.8	41	83	124	165	206	248	289	330	372	.8
.9	42	83	125	167	208	250	292	333	375	.9
11.0	42	84	126	168	210	252	294	336	379	11.0
.1	42	85	127	170	212	255	297	340	382	.1
.2	43	86	128	171	214	257	300	343	385	.2
.3	43	86	130	173	216	259	302	346	389	.3
.4	44	87	131	174	218	262	305	349	392	.4
.5	44	88	132	176	220	264	308	352	396	.5
.6	44	89	133	177	222	266	310	355	399	.6
.7	45	89	134	179	224	268	313	358	403	.7
.8	45	90	135	180	226	271	316	361	406	.8
.9	46	91	137	182	228	273	319	364	410	.9
12.0	46	92	138	184	229	275	321	367	414	12.0

Depn. W. B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W. B. Thermr.
	23 in.	24 in.	25 in.	26 in.	27 in.	28 in.	29 in.	30 in.	31 in.	
°										°
6.0	.05276	.05506	.05735	.05965	.06194	.06423	.06652	.06882	.07112	6.0
.1	.05364	.05598	.05831	.06064	.06297	.06530	.06763	.06997	.07230	.1
.2	.05452	.05689	.05926	.06163	.06400	.06638	.06874	.07112	.07349	.2
.3	.05540	.05781	.06022	.06263	.06504	.06745	.06985	.07226	.07467	.3
.4	.05628	.05873	.06117	.06362	.06607	.06852	.07096	.07341	.07586	.4
.5	.05716	.05965	.06213	.06462	.06710	.06959	.07207	.07456	.07704	.5
.6	.05804	.06056	.06309	.06561	.06813	.07066	.07318	.07570	.07823	.6
.7	.05892	.06148	.06404	.06660	.06917	.07173	.07429	.07685	.07941	.6
.8	.05980	.06240	.06500	.06760	.07020	.07280	.07540	.07800	.08060	.7
.9	.06068	.06332	.06595	.06859	.07123	.07387	.07651	.07915	.08178	.8
7.0	.06156	.06423	.06691	.06959	.07226	.07494	.07762	.08029	.08297	7.0
.1	.06244	.06515	.06787	.07058	.07330	.07601	.07873	.08144	.08415	.1
.2	.06332	.06607	.06882	.07158	.07433	.07708	.07983	.08259	.08534	.2
.3	.06420	.06699	.06978	.07257	.07536	.07815	.08094	.08373	.08653	.3
.4	.06508	.06790	.07073	.07356	.07639	.07922	.08205	.08488	.08771	.4
.5	.06595	.06882	.07169	.07456	.07743	.08029	.08316	.08603	.08890	.5
.6	.06683	.06974	.07265	.07555	.07846	.08136	.08427	.08718	.09008	.6
.7	.06771	.07066	.07360	.07655	.07949	.08243	.08538	.08832	.09127	.7
.8	.06859	.07158	.07456	.07754	.08052	.08350	.08649	.08947	.09245	.8
.9	.06947	.07249	.07551	.07853	.08155	.08458	.08760	.09062	.09364	.9
8.0	.07035	.07341	.07647	.07953	.08259	.08565	.08870	.09176	.09482	8.0
.1	.07123	.07433	.07743	.08052	.08362	.08672	.08981	.09291	.09601	.1
.2	.07211	.07525	.07838	.08152	.08465	.08779	.09092	.09406	.09719	.2
.3	.07299	.07616	.07934	.08251	.08568	.08886	.09203	.09520	.09838	.3
.4	.07387	.07708	.08029	.08350	.08672	.08993	.09314	.09635	.09956	.4
.5	.07475	.07800	.08125	.08450	.08775	.09100	.09425	.09750	.10075	.5
.6	.07563	.07892	.08220	.08549	.08878	.09207	.09536	.09865	.10193	.6
.7	.07651	.07983	.08316	.08649	.08981	.09314	.09647	.09979	.10312	.7
.8	.07739	.08075	.08412	.08748	.09085	.09421	.09758	.10094	.10430	.8
.9	.07827	.08167	.08507	.08848	.09188	.09528	.09868	.10209	.10549	.9
9.0	.07915	.08259	.08603	.08947	.09291	.09635	.09979	.10323	.10667	9.0
.1	.08003	.08350	.08698	.09046	.09394	.09742	.10090	.10438	.10786	.1
.2	.08090	.08442	.08794	.09146	.09498	.09849	.10201	.10553	.10905	.2
.3	.08178	.08534	.08890	.09246	.09601	.09956	.10312	.10668	.11023	.3
.4	.08266	.08626	.08985	.09345	.09704	.10063	.10423	.10782	.11142	.4
.5	.08354	.08718	.09081	.09444	.09807	.10170	.10534	.10897	.11260	.5
.6	.08442	.08809	.09176	.09543	.09910	.10278	.10645	.11012	.11379	.6
.7	.08530	.08901	.09272	.09643	.10014	.10385	.10755	.11126	.11497	.7
.8	.08618	.08993	.09368	.09742	.10117	.10492	.10866	.11241	.11616	.8
.9	.08706	.09085	.09463	.09842	.10220	.10599	.10977	.11356	.11734	.9
10.0	.08794	.09176	.09559	.09941	.10323	.10706	.11088	.11470	.11853	10.0
.1	.08882	.09268	.09654	.10040	.10427	.10813	.11199	.11585	.11971	.1
.2	.08970	.09360	.09750	.10140	.10530	.10920	.11310	.11700	.12090	.2
.3	.09058	.09452	.09845	.10239	.10633	.11027	.11421	.11815	.12208	.3
.4	.09146	.09543	.09941	.10339	.10736	.11134	.11532	.11929	.12327	.4
.5	.09234	.09635	.10037	.10438	.10840	.11241	.11643	.12044	.12445	.5
.6	.09322	.09727	.10132	.10538	.10943	.11348	.11753	.12159	.12564	.6
.7	.09410	.09819	.10228	.10637	.11046	.11455	.11864	.12273	.12683	.7
.8	.09498	.09910	.10323	.10736	.11149	.11562	.11975	.12388	.12801	.8
.9	.09585	.10002	.10419	.10836	.11253	.11669	.12086	.12503	.12920	.9
11.0	.09673	.10094	.10515	.10935	.11356	.11776	.12197	.12618	.13038	11.0
.1	.09761	.10186	.10610	.11035	.11459	.11883	.12308	.12732	.13157	.1
.2	.09849	.10278	.10706	.11134	.11562	.11990	.12419	.12847	.13275	.2
.3	.09937	.10369	.10801	.11233	.11665	.12098	.12530	.12962	.13394	.3
.4	.10025	.10461	.10897	.11333	.11769	.12205	.12640	.13076	.13512	.4
.5	.10113	.10553	.10993	.11432	.11872	.12312	.12751	.13191	.13631	.5
.6	.10201	.10645	.11088	.11532	.11975	.12419	.12862	.13306	.13750	.6
.7	.10289	.10736	.11184	.11631	.12078	.12526	.12973	.13420	.13868	.7
.8	.10377	.10828	.11279	.11730	.12182	.12633	.13084	.13535	.13986	.8
.9	.10465	.10920	.11375	.11830	.12285	.12740	.13195	.13650	.14105	.9
12.0	.10553	.11012	.11470	.11929	.12388	.12847	.13306	.13765	.14223	12.0

Depn. W. B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W. B. Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
°										°
6.0	23	46	69	92	115	138	161	184	206	6.0
.1	23	47	70	93	117	140	163	187	210	.1
.2	24	47	71	95	119	142	166	190	213	.2
.3	24	48	72	96	120	145	169	193	217	.3
.4	24	49	73	98	122	147	171	196	220	.4
.5	25	50	75	99	124	149	174	199	224	.5
.6	25	50	76	101	126	151	177	202	227	.6
.7	26	51	77	102	128	154	179	205	231	.7
.8	26	52	78	104	130	156	182	208	234	.8
.9	26	53	79	105	132	158	185	211	237	.9
7.0	27	54	80	107	134	161	187	214	241	7.0
.1	27	54	81	109	136	163	189	217	244	.1
.2	28	55	83	110	138	165	193	220	248	.2
.3	28	56	84	112	140	167	195	223	251	.3
.4	28	57	85	113	141	170	198	226	255	.4
.5	29	57	86	115	143	172	201	229	258	.5
.6	29	58	87	116	145	174	203	232	262	.6
.7	29	59	88	118	147	177	206	236	265	.7
.8	30	60	89	119	149	179	209	239	268	.8
.9	30	60	91	121	151	181	211	242	272	.9
8.0	31	61	92	122	153	184	214	245	275	8.0
.1	31	62	93	124	155	186	217	248	279	.1
.2	31	63	94	125	157	188	219	251	282	.2
.3	32	63	95	127	159	190	222	254	286	.3
.4	32	64	96	128	161	193	225	257	289	.4
.5	33	65	98	130	163	195	228	260	293	.5
.6	33	66	99	132	164	197	230	263	296	.6
.7	33	67	100	133	166	200	233	266	299	.7
.8	34	67	101	135	168	202	236	269	303	.8
.9	34	68	102	136	170	204	238	272	306	.9
9.0	34	69	103	138	172	206	241	275	310	9.0
.1	35	70	104	139	174	209	244	278	313	.1
.2	35	70	106	141	176	211	246	281	317	.2
.3	36	71	107	142	178	213	249	284	320	.3
.4	36	72	108	144	180	216	252	288	323	.4
.5	36	73	109	145	182	218	254	291	327	.5
.6	37	73	110	147	184	220	257	294	330	.6
.7	37	74	111	148	185	223	260	297	334	.7
.8	37	75	112	150	187	225	262	300	337	.8
.9	38	76	114	151	189	227	265	303	341	.9
10.0	38	76	115	153	191	229	268	306	344	10.0
.1	39	77	116	154	193	232	270	309	348	.1
.2	39	78	117	156	195	234	273	312	351	.2
.3	39	79	118	158	197	236	276	315	354	.3
.4	40	80	119	159	199	239	278	318	358	.4
.5	40	80	120	161	201	241	281	321	361	.5
.6	41	81	122	162	203	243	283	324	365	.6
.7	41	82	123	164	205	245	286	327	368	.7
.8	41	83	124	165	206	248	289	330	372	.8
.9	42	83	125	167	208	250	292	333	375	.9
11.0	42	84	126	168	210	252	294	336	379	11.0
.1	42	85	127	170	212	255	297	340	382	.1
.2	43	86	128	171	214	257	300	343	385	.2
.3	43	86	130	173	216	259	302	346	389	.3
.4	44	87	131	174	218	262	305	349	392	.4
.5	44	88	132	176	220	264	308	352	396	.5
.6	44	89	133	177	222	266	310	355	399	.6
.7	45	89	134	179	224	268	313	358	403	.7
.8	45	90	135	180	226	271	316	361	406	.8
.9	46	91	137	182	228	273	319	364	410	.9
12.0	46	92	138	184	229	275	321	367	414	12.0

Depn. W. B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W. B. Thermr.
	14 in.	15 in.	16 in.	17 in.	18 in.	19 in.	20 in.	21 in.	22 in.	
°										°
12.0	.06423	.06882	.07341	.07800	.08258	.08717	.09176	.09635	.10094	12.0
.1	.06477	.06939	.07402	.07865	.08327	.08790	.09253	.09715	.10178	.1
.2	.06530	.06997	.07463	.07930	.08396	.08862	.09329	.09796	.10262	.2
.3	.06584	.07054	.07524	.07995	.08465	.08935	.09406	.09876	.10346	.3
.4	.06637	.07111	.07585	.08060	.08534	.09008	.09482	.09956	.10430	.4
.5	.06691	.07169	.07647	.08125	.08603	.09080	.09559	.10037	.10515	.5
.6	.06744	.07226	.07708	.08190	.08671	.09153	.09635	.10117	.10599	.6
.7	.06798	.07283	.07769	.08255	.08740	.09226	.09712	.10197	.10683	.7
.8	.06851	.07341	.07830	.08320	.08809	.09298	.09788	.10278	.10767	.8
.9	.06905	.07398	.07891	.08385	.08878	.09371	.09865	.10358	.10851	.9
13.0	.06958	.07456	.07953	.08450	.08947	.09444	.09941	.10438	.10935	13.0
.1	.07012	.07513	.08014	.08515	.09015	.09516	.10018	.10518	.11019	.1
.2	.07066	.07570	.08075	.08580	.09084	.09589	.10094	.10599	.11103	.2
.3	.07119	.07628	.08136	.08645	.09153	.09661	.10171	.10679	.11188	.3
.4	.07173	.07685	.08197	.08710	.09222	.09734	.10247	.10759	.11272	.4
.5	.07226	.07742	.08258	.08775	.09291	.09807	.10323	.10840	.11356	.5
.6	.07280	.07800	.08329	.08840	.09360	.09879	.10400	.10920	.11440	.6
.7	.07333	.07857	.08381	.08905	.09428	.09952	.10476	.11000	.11524	.7
.8	.07387	.07914	.08442	.08970	.09497	.10025	.10553	.11081	.11608	.8
.9	.07440	.07972	.08503	.09035	.09566	.10097	.10629	.11161	.11692	.9
14.0	.07494	.08029	.08564	.09100	.09635	.10170	.10706	.11241	.11776	14.0
.1	.07547	.08086	.08625	.09165	.09704	.10243	.10783	.11322	.11861	.1
.2	.07601	.08144	.08687	.09230	.09772	.10315	.10859	.11402	.11945	.2
.3	.07654	.08201	.08748	.09295	.09841	.10388	.10935	.11482	.12029	.3
.4	.07708	.08258	.08809	.09360	.09910	.10461	.11012	.11562	.12113	.4
.5	.07761	.08316	.08870	.09425	.09979	.10533	.11088	.11643	.12197	.5
.6	.07815	.08373	.08931	.09490	.10048	.10606	.11165	.11723	.12281	.6
.7	.07868	.08430	.08992	.09555	.10117	.10679	.11241	.11803	.12365	.7
.8	.07922	.08488	.09054	.09620	.10185	.10751	.11318	.11883	.12449	.8
.9	.07975	.08545	.09115	.09685	.10254	.10824	.11394	.11964	.12533	.9
15.0	.08029	.08603	.09176	.09749	.10323	.10896	.11470	.12044	.12618	15.0
.1	.08083	.08660	.09237	.09814	.10392	.10969	.11547	.12124	.12702	.1
.2	.08136	.08717	.09298	.09879	.10461	.11042	.11623	.12205	.12786	.2
.3	.08190	.08775	.09360	.09944	.10530	.11114	.11700	.12285	.12870	.3
.4	.08243	.08832	.09421	.10009	.10598	.11187	.11776	.12365	.12954	.4
.5	.08297	.08889	.09482	.10074	.10667	.11260	.11853	.12445	.13038	.5
.6	.08350	.08947	.09543	.10139	.10736	.11332	.11929	.12526	.13122	.6
.7	.08404	.09004	.09604	.10204	.10805	.11405	.12006	.12606	.13206	.7
.8	.08457	.09061	.09665	.10269	.10874	.11478	.12082	.12686	.13290	.8
.9	.08511	.09119	.09727	.10334	.10942	.11550	.12159	.12767	.13375	.9
16.0	.08564	.09176	.09788	.10399	.11011	.11623	.12235	.12847	.13459	16.0
.1	.08618	.09233	.09849	.10464	.11080	.11696	.12312	.12927	.13543	.1
.2	.08671	.09291	.09910	.10529	.11149	.11768	.12388	.13008	.13627	.2
.3	.08725	.09348	.09971	.10594	.11218	.11841	.12465	.13088	.13711	.3
.4	.08778	.09405	.10032	.10659	.11287	.11914	.12541	.13168	.13794	.4
.5	.08832	.09463	.10094	.10724	.11355	.11986	.12618	.13248	.13879	.5
.6	.08885	.09520	.10155	.10789	.11424	.12059	.12694	.13329	.13963	.6
.7	.08939	.09577	.10216	.10854	.11493	.12131	.12770	.13409	.14048	.7
.8	.08992	.09635	.10277	.10919	.11562	.12204	.12847	.13490	.14132	.8
.9	.09046	.09692	.10338	.10984	.11631	.12277	.12923	.13570	.14216	.9
17.0	.09100	.09750	.10399	.11049	.11699	.12349	.13000	.13650	.14300	17.0
.1	.09153	.09807	.10461	.11114	.11768	.12422	.13076	.13730	.14384	.1
.2	.09207	.09864	.10522	.11179	.11837	.12495	.13153	.13810	.14468	.2
.3	.09260	.09922	.10583	.11244	.11906	.12567	.13229	.13891	.14552	.3
.4	.09314	.09979	.10644	.11309	.11975	.12640	.13306	.13971	.14636	.4
.5	.09367	.10036	.10705	.11374	.12044	.12713	.13382	.14051	.14720	.5
.6	.09421	.10094	.10766	.11439	.12112	.12785	.13459	.14132	.14805	.6
.7	.09474	.10151	.10828	.11504	.12181	.12858	.13535	.14212	.14889	.7
.8	.09528	.10208	.10889	.11569	.12250	.12931	.13612	.14292	.14973	.8
.9	.09581	.10266	.10950	.11634	.12319	.13003	.13688	.14373	.15057	.9
18.0	.09635	.10323	.11011	.11699	.12387	.13076	.13765	.14453	.15141	18.0

Depn. W. B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W. B. Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
°										°
12.0	46	92	138	184	229	275	321	367	414	12.0
.1	46	93	139	185	231	278	324	370	416	.1
.2	47	93	140	187	233	280	325	373	420	.2
.3	47	94	141	188	235	282	329	376	423	.3
.4	47	95	142	190	237	284	332	379	427	.4
.5	48	96	143	191	239	287	335	382	430	.5
.6	48	96	145	193	241	289	337	385	434	.6
.7	49	97	146	194	243	291	340	388	437	.7
.8	49	98	147	196	245	294	343	392	440	.8
.9	49	99	148	197	247	296	345	395	444	.9
13.0	50	99	149	199	249	298	348	398	447	13.0
.1	50	100	150	200	250	301	351	401	451	.1
.2	50	101	151	202	252	303	353	404	454	.2
.3	51	102	153	203	254	305	356	407	458	.3
.4	51	102	153	205	256	307	359	410	461	.4
.5	52	103	155	206	258	310	361	413	465	.5
.6	52	104	156	208	260	312	364	416	468	.6
.7	52	105	157	210	262	314	367	419	471	.7
.8	53	106	158	211	264	317	369	422	475	.8
.9	53	106	159	213	266	319	372	425	478	.9
14.0	54	107	161	214	268	321	375	428	482	14.0
.1	54	108	162	216	270	323	377	431	485	.1
.2	54	109	163	217	271	326	380	434	489	.2
.3	55	109	164	219	273	328	383	437	492	.3
.4	55	110	165	220	275	330	385	440	496	.4
.5	55	111	166	222	277	333	388	444	499	.5
.6	56	112	167	223	279	335	391	447	502	.6
.7	56	112	169	225	281	337	393	450	506	.7
.8	57	113	170	226	283	340	396	453	509	.8
.9	57	114	171	228	285	342	399	456	513	.9
15.0	57	115	172	229	287	344	401	459	516	15.0
.1	58	115	173	231	289	346	404	462	520	.1
.2	58	116	174	232	291	349	407	465	523	.2
.3	58	117	176	234	293	351	410	468	527	.3
.4	59	118	177	236	294	353	412	471	530	.4
.5	59	119	178	237	296	356	415	474	533	.5
.6	60	119	179	239	298	358	418	477	537	.6
.7	60	120	180	240	300	360	420	480	540	.7
.8	60	121	181	242	302	362	423	483	544	.8
.9	61	122	182	243	304	365	426	486	547	.9
16.0	61	122	184	245	306	367	428	489	551	16.0
.1	62	123	185	246	308	369	431	492	554	.1
.2	62	124	186	248	310	372	434	496	557	.2
.3	62	125	187	249	312	374	436	499	561	.3
.4	63	125	188	251	314	376	439	502	564	.4
.5	63	126	189	252	315	379	442	505	568	.5
.6	63	127	190	254	317	381	444	508	571	.6
.7	64	128	192	255	319	383	447	511	575	.7
.8	64	128	193	257	321	385	450	514	578	.8
.9	65	129	194	258	323	388	452	517	582	.9
17.0	65	130	195	260	325	390	455	520	585	17.0
.1	65	131	196	262	327	392	458	523	588	.1
.2	66	132	197	263	329	394	460	526	592	.2
.3	66	132	198	265	331	397	463	529	595	.3
.4	67	133	200	266	333	399	466	532	599	.4
.5	67	134	201	268	335	401	468	535	602	.5
.6	67	135	202	269	336	404	471	538	606	.6
.7	68	135	203	271	338	406	474	542	609	.7
.8	68	136	204	272	340	408	476	544	613	.8
.9	68	137	205	274	342	411	479	548	616	.9
18.0	69	138	206	275	344	413	482	551	619	18.0

Depn. W. B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W. B. Thermr.
	23 in.	24 in.	25 in.	26 in.	27 in.	28 in.	29 in.	30 in.	31 in.	
°										°
12.0	.10553	.11012	.11470	.11929	.12388	.12847	.13306	.13765	.14223	12.0
.1	.10641	.11103	.11566	.12029	.12492	.12954	.13417	.13879	.14342	.1
.2	.10729	.11195	.11662	.12128	.12595	.13061	.13528	.13994	.14460	.2
.3	.10817	.11287	.11757	.12228	.12698	.13168	.13638	.14109	.14579	.3
.4	.10905	.11379	.11853	.12327	.12801	.13275	.13749	.14223	.14698	.4
.5	.10993	.11470	.11948	.12426	.12904	.13382	.13860	.14338	.14816	.5
.6	.11080	.11562	.12044	.12526	.13008	.13489	.13971	.14453	.14935	.6
.7	.11168	.11654	.12140	.12625	.13111	.13596	.14082	.14568	.15053	.7
.8	.11256	.11746	.12235	.12725	.13214	.13703	.14193	.14682	.15172	.8
.9	.11344	.11838	.12331	.12824	.13317	.13810	.14304	.14797	.15290	.9
13.0	.11432	.11930	.12426	.12923	.13420	.13918	.14415	.14912	.15409	13.0
.1	.11520	.12021	.12522	.13023	.13524	.14025	.14525	.15026	.15527	.1
.2	.11608	.12113	.12618	.13122	.13627	.14132	.14636	.15141	.15646	.2
.3	.11696	.12205	.12713	.13222	.13730	.14239	.14747	.15256	.15764	.3
.4	.11784	.12296	.12809	.13321	.13833	.14346	.14858	.15370	.15883	.4
.5	.11872	.12388	.12904	.13420	.13937	.14453	.14969	.15485	.16001	.5
.6	.11960	.12480	.13000	.13520	.14040	.14560	.15080	.15600	.16120	.6
.7	.12048	.12572	.13095	.13619	.14143	.14667	.15191	.15715	.16238	.7
.8	.12136	.12663	.13191	.13719	.14246	.14774	.15302	.15829	.16357	.8
.9	.12224	.12755	.13287	.13818	.14350	.14881	.15412	.15944	.16475	.9
14.0	.12312	.12847	.13382	.13918	.14453	.14988	.15523	.16059	.16594	14.0
.1	.12400	.12939	.13479	.14017	.14557	.15096	.15635	.16174	.16713	.1
.2	.12488	.13030	.13573	.14116	.14659	.15202	.15745	.16288	.16831	.2
.3	.12575	.13122	.13669	.14216	.14763	.15309	.15856	.16403	.16950	.3
.4	.12663	.13214	.13765	.14315	.14866	.15416	.15967	.16517	.17068	.4
.5	.12751	.13306	.13860	.14415	.14969	.15523	.16078	.16632	.17187	.5
.6	.12839	.13398	.13956	.14514	.15072	.15630	.16189	.16747	.17305	.6
.7	.12927	.13489	.14051	.14613	.15175	.15737	.16300	.16862	.17424	.7
.8	.13015	.13581	.14147	.14713	.15279	.15845	.16410	.16976	.17542	.8
.9	.13103	.13673	.14243	.14812	.15382	.15952	.16521	.17091	.17661	.9
15.0	.13191	.13765	.14338	.14911	.15485	.16059	.16632	.17206	.17779	15.0
.1	.13279	.13856	.14434	.15011	.15588	.16166	.16743	.17320	.17898	.1
.2	.13367	.13948	.14529	.15110	.15692	.16273	.16854	.17435	.18016	.2
.3	.13455	.14040	.14625	.15210	.15795	.16380	.16965	.17550	.18135	.3
.4	.13543	.14132	.14720	.15309	.15898	.16487	.17076	.17665	.18253	.4
.5	.13631	.14223	.14816	.15409	.16001	.16594	.17187	.17779	.18372	.5
.6	.13719	.14315	.14912	.15508	.16105	.16701	.17297	.17894	.18490	.6
.7	.13807	.14407	.15007	.15607	.16208	.16808	.17408	.18009	.18609	.7
.8	.13895	.14499	.15103	.15707	.16311	.16915	.17519	.18123	.18727	.8
.9	.13983	.14590	.15198	.15806	.16414	.17022	.17630	.18238	.18846	.9
16.0	.14070	.14682	.15294	.15906	.16517	.17129	.17741	.18353	.18965	16.0
.1	.14158	.14774	.15390	.16005	.16621	.17236	.17852	.18467	.19083	.1
.2	.14246	.14866	.15485	.16105	.16724	.17343	.17963	.18582	.19202	.2
.3	.14334	.14958	.15581	.16204	.16827	.17450	.18074	.18697	.19320	.3
.4	.14422	.15049	.15676	.16303	.16930	.17557	.18185	.18812	.19439	.4
.5	.14510	.15141	.15772	.16403	.17034	.17665	.18295	.18926	.19557	.5
.6	.14598	.15233	.15867	.16502	.17137	.17772	.18406	.19041	.19676	.6
.7	.14686	.15325	.15963	.16602	.17240	.17879	.18517	.19156	.19794	.7
.8	.14774	.15416	.16059	.16701	.17343	.17986	.18628	.19270	.19913	.8
.9	.14862	.15508	.16154	.16800	.17447	.18093	.18739	.19385	.20031	.9
17.0	.14950	.15600	.16250	.16900	.17550	.18200	.18850	.19500	.20150	17.0
.1	.15038	.15692	.16345	.16999	.17653	.18307	.18961	.19614	.20268	.1
.2	.15126	.15783	.16441	.17099	.17756	.18414	.19072	.19729	.20387	.2
.3	.15214	.15875	.16537	.17198	.17860	.18521	.19182	.19843	.20505	.3
.4	.15302	.15967	.16632	.17297	.17963	.18628	.19293	.19959	.20624	.4
.5	.15390	.16059	.16728	.17397	.18066	.18735	.19404	.20073	.20742	.5
.6	.15478	.16150	.16823	.17496	.18169	.18842	.19515	.20188	.20861	.6
.7	.15565	.16242	.16919	.17596	.18272	.18949	.19626	.20303	.20980	.7
.8	.15653	.16334	.17015	.17695	.18376	.19056	.19737	.20417	.21099	.8
.9	.15741	.16426	.17110	.17795	.18479	.19163	.19848	.20532	.21217	.9
18.0	.15829	.16517	.17206	.17894	.18582	.19270	.19959	.20647	.21335	18.0

Depn. W. B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W. B. Thermr.
°	.1	.2	.3	.4	.5	.6	.7	.8	.9	°
12.0	46	92	138	184	229	275	321	367	414	12.0
.1	46	93	139	185	231	278	324	370	416	.1
.2	47	93	140	187	233	280	325	373	420	.2
.3	47	94	141	188	235	282	329	376	423	.3
.4	47	95	142	190	237	284	332	379	427	.4
.5	48	96	143	191	239	287	335	382	430	.5
.6	48	96	145	193	241	289	337	385	434	.6
.7	49	97	146	194	243	291	340	388	437	.7
.8	49	98	147	196	245	294	343	392	440	.8
.9	49	99	148	197	247	296	345	395	444	.9
13.0	50	99	149	199	249	298	348	398	447	13.0
.1	50	100	150	200	250	301	351	401	451	.1
.2	50	101	151	202	252	303	353	404	454	.2
.3	51	102	153	203	254	305	356	407	458	.3
.4	51	102	154	205	256	307	359	410	461	.4
.5	52	103	155	206	258	310	361	413	465	.5
.6	52	104	156	208	260	312	364	416	468	.6
.7	52	105	157	210	262	314	367	419	471	.7
.8	53	106	158	211	264	317	369	422	475	.8
.9	53	106	159	213	266	319	372	425	478	.9
14.0	54	107	161	214	268	321	375	428	482	14.0
.1	54	108	162	216	270	323	377	431	485	.1
.2	54	109	163	217	271	326	380	434	489	.2
.3	55	109	164	219	273	328	383	437	492	.3
.4	55	110	165	220	275	330	385	440	496	.4
.5	55	111	166	222	277	333	388	444	499	.5
.6	56	112	167	223	279	335	391	447	502	.6
.7	56	112	169	225	281	337	393	450	506	.7
.8	57	113	170	226	283	340	396	453	509	.8
.9	57	114	171	228	285	342	399	456	513	.9
15.0	57	115	172	229	287	344	401	459	516	15.0
.1	58	115	173	231	289	346	404	462	520	.1
.2	58	116	174	232	291	349	407	465	523	.2
.3	58	117	176	234	293	351	410	468	527	.3
.4	59	118	177	236	294	353	412	471	530	.4
.5	59	119	178	237	296	356	415	474	533	.5
.6	60	119	179	239	298	358	418	477	537	.6
.7	60	120	180	240	300	360	420	480	540	.7
.8	60	121	181	242	302	362	423	483	544	.8
.9	61	122	182	243	304	365	426	486	547	.9
16.0	61	122	184	245	306	367	428	489	551	16.0
.1	62	123	185	246	308	369	431	492	554	.1
.2	62	124	186	248	310	372	434	496	557	.2
.3	62	125	187	249	312	374	436	499	561	.3
.4	63	125	188	251	314	376	439	502	564	.4
.5	63	126	189	252	315	379	442	505	568	.5
.6	63	127	190	254	317	381	444	508	571	.6
.7	64	128	192	255	319	383	447	511	575	.7
.8	64	128	193	257	321	385	450	514	578	.8
.9	65	129	194	258	323	388	452	517	582	.9
17.0	65	130	195	260	325	390	455	520	585	17.0
.1	65	131	196	262	327	392	458	523	588	.1
.2	66	132	197	263	329	394	460	526	592	.2
.3	66	132	198	265	331	397	463	529	595	.3
.4	67	133	200	266	333	399	466	532	599	.4
.5	67	134	201	268	335	401	468	535	602	.5
.6	67	135	202	269	336	404	471	538	606	.6
.7	68	135	203	271	338	406	474	542	609	.7
.8	68	136	204	272	340	408	476	544	613	.8
.9	68	137	205	274	342	411	479	548	616	.9
18.0	69	138	206	275	344	413	482	551	619	18.0

Depn. W. B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W. B. Thermr.
	14 in.	15 in.	16 in.	17 in.	18 in.	19 in.	20 in.	21 in.	22 in.	
°										°
18.0	.09635	.10323	.11011	.11699	.12388	.13076	.13765	.14453	.15141	18.0
.1	.09688	.10380	.11072	.11764	.12456	.13148	.13841	.14533	.15225	.1
.2	.09742	.10438	.11134	.11829	.12525	.13221	.13918	.14613	.15309	.2
.3	.09795	.10495	.11195	.11894	.12594	.13294	.13994	.14693	.15393	.3
.4	.09849	.10552	.11256	.11959	.12663	.13366	.14070	.14774	.15477	.4
.5	.09902	.10610	.11317	.12024	.12732	.13439	.14147	.14854	.15562	.5
.6	.09956	.10667	.11378	.12089	.12801	.13512	.14223	.14935	.15646	.6
.7	.10009	.10724	.11439	.12154	.12869	.13584	.14300	.15015	.15730	.7
.8	.10063	.10782	.11501	.12219	.12938	.13657	.14376	.15095	.15814	.8
.9	.10117	.10839	.11562	.12284	.13007	.13730	.14453	.15175	.15898	.9
19.0	.10170	.10897	.11623	.12349	.13076	.13802	.14529	.15256	.15982	19.0
.1	.10224	.10954	.11684	.12414	.13145	.13875	.14606	.15336	.16066	.1
.2	.10277	.11011	.11745	.12479	.13213	.13948	.14682	.15416	.16150	.2
.3	.10331	.11069	.11806	.12544	.13282	.14020	.14759	.15497	.16235	.3
.4	.10384	.11126	.11868	.12609	.13351	.14093	.14835	.15577	.16319	.4
.5	.10438	.11183	.11929	.12674	.13420	.14165	.14912	.15657	.16403	.5
.6	.10491	.11241	.11990	.12739	.13489	.14238	.14988	.15737	.16487	.6
.7	.10545	.11298	.12051	.12804	.13558	.14311	.15065	.15818	.16571	.7
.8	.10598	.11355	.12112	.12869	.13626	.14383	.15141	.15898	.16655	.8
.9	.10652	.11413	.12173	.12934	.13695	.14456	.15218	.15978	.16739	.9
20.0	.10705	.11470	.12235	.12999	.13764	.14529	.15294	.16059	.16823	20.0
.1	.10759	.11527	.12296	.13064	.13833	.14601	.15370	.16139	.16907	.1
.2	.10812	.11585	.12357	.13129	.13902	.14674	.15447	.16219	.16992	.2
.3	.10866	.11642	.12418	.13194	.13971	.14747	.15523	.16300	.17076	.3
.4	.10920	.11699	.12479	.13259	.14039	.14819	.15600	.16380	.17160	.4
.5	.10973	.11757	.12541	.13324	.14108	.14892	.15676	.16460	.17244	.5
.6	.11027	.11814	.12602	.13389	.14177	.14965	.15753	.16540	.17328	.6
.7	.11080	.11871	.12663	.13454	.14246	.15037	.15829	.16621	.17412	.7
.8	.11134	.11929	.12724	.13519	.14315	.15109	.15906	.16701	.17496	.8
.9	.11187	.11986	.12785	.13584	.14383	.15182	.15982	.16781	.17580	.9
21.0	.11241	.12044	.12846	.13649	.14452	.15255	.16059	.16862	.17665	21.0
.1	.11294	.12101	.12908	.13714	.14521	.15328	.16135	.16942	.17749	.1
.2	.11348	.12158	.12969	.13779	.14590	.15400	.16212	.17022	.17833	.2
.3	.11401	.12216	.13030	.13844	.14659	.15473	.16288	.17102	.17917	.3
.4	.11455	.12273	.13091	.13909	.14728	.15546	.16365	.17183	.18001	.4
.5	.11508	.12330	.13152	.13974	.14796	.15618	.16441	.17263	.18085	.5
.6	.11562	.12388	.13213	.14039	.14865	.15691	.16517	.17343	.18169	.6
.7	.11615	.12445	.13275	.14104	.14934	.15764	.16594	.17424	.18253	.7
.8	.11669	.12502	.13336	.14169	.15003	.15836	.16670	.17504	.18337	.8
.9	.11722	.12560	.13397	.14234	.15072	.15909	.16747	.17584	.18422	.9
22.0	.11776	.12617	.13458	.14299	.15140	.15982	.16823	.17665	.18506	22.0
.1	.11829	.12674	.13519	.14364	.15209	.16054	.16900	.17745	.18590	.1
.2	.11883	.12732	.13580	.14429	.15278	.16127	.16976	.17825	.18674	.2
.3	.11937	.12789	.13642	.14494	.15347	.16199	.17053	.17905	.18758	.3
.4	.11990	.12846	.13703	.14559	.15416	.16272	.17129	.17986	.18842	.4
.5	.12044	.12904	.13764	.14624	.15485	.16345	.17206	.18066	.18926	.5
.6	.12097	.12961	.13825	.14689	.15553	.16417	.17282	.18146	.19010	.6
.7	.12151	.13018	.13886	.14754	.15622	.16490	.17359	.18227	.19095	.7
.8	.12204	.13076	.13948	.14819	.15691	.16563	.17435	.18307	.19179	.8
.9	.12258	.13133	.14009	.14884	.15760	.16635	.17512	.18387	.19263	.9
23.0	.12311	.13191	.14070	.14949	.15828	.16708	.17588	.18467	.19347	23.0
.1	.12365	.13248	.14131	.15014	.15897	.16781	.17665	.18548	.19431	.1
.2	.12418	.13305	.14192	.15079	.15966	.16853	.17741	.18628	.19515	.2
.3	.12472	.13363	.14253	.15144	.16035	.16926	.17817	.18708	.19599	.3
.4	.12525	.13420	.14315	.15209	.16104	.16999	.17894	.18789	.19683	.4
.5	.12579	.13477	.14376	.15274	.16173	.17071	.17970	.18869	.19767	.5
.6	.12632	.13535	.14437	.15339	.16242	.17144	.18047	.18949	.19852	.6
.7	.12686	.13592	.14498	.15404	.16310	.17216	.18123	.19030	.19936	.7
.8	.12739	.13649	.14559	.15469	.16379	.17289	.18200	.19110	.20020	.8
.9	.12793	.13707	.14620	.15534	.16448	.17362	.18276	.19190	.20104	.9
24.0	.12846	.13764	.14682	.15599	.16517	.17434	.18353	.19270	.20188	24.0

Depn. W.B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W.B. Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
°										°
18.0	69	138	206	275	344	413	482	551	619	18.0
.1	69	138	208	277	346	415	484	554	623	.1
.2	70	139	209	278	348	418	487	557	626	.2
.3	70	140	210	280	350	420	490	560	630	.3
.4	70	141	211	281	352	422	492	563	633	.4
.5	71	141	212	283	354	424	495	566	637	.5
.6	71	142	213	284	356	427	498	569	640	.6
.7	72	143	215	286	358	429	501	572	644	.7
.8	72	144	216	288	359	431	503	575	647	.8
.9	72	145	217	289	361	434	506	577	650	.9
19.0	73	145	218	291	363	436	509	581	654	19.0
.1	73	146	219	292	365	438	511	584	657	.1
.2	73	147	220	294	367	440	514	587	660	.2
.3	74	148	221	295	369	443	517	590	664	.3
.4	74	148	223	297	371	445	519	593	668	.4
.5	75	149	224	298	373	447	522	596	671	.5
.6	75	150	225	300	375	450	525	600	674	.6
.7	75	151	226	301	377	452	527	603	678	.7
.8	76	151	227	303	379	454	530	606	681	.8
.9	76	152	228	304	380	457	533	609	685	.9
20.0	76	153	229	306	382	459	535	612	688	20.0
.1	77	154	231	307	384	461	538	615	692	.1
.2	77	154	232	309	386	463	541	618	695	.2
.3	78	155	233	310	388	466	543	621	699	.3
.4	78	156	234	312	390	468	546	624	702	.4
.5	78	157	235	314	392	470	549	627	705	.5
.6	79	158	236	315	394	473	551	630	709	.6
.7	79	158	237	317	396	475	554	633	712	.7
.8	80	159	239	318	398	477	557	636	716	.8
.9	80	160	240	320	400	479	559	639	718	.9
21.0	80	161	241	321	401	482	562	642	723	21.0
.1	81	161	242	323	403	484	565	645	726	.1
.2	81	162	243	324	405	486	567	648	730	.2
.3	81	163	244	326	407	489	570	652	733	.3
.4	82	164	245	327	409	491	573	655	736	.4
.5	82	164	247	329	411	493	575	658	740	.5
.6	83	165	248	330	413	496	578	661	743	.6
.7	83	166	249	332	415	498	581	664	747	.7
.8	83	167	250	334	417	500	583	667	750	.8
.9	84	167	251	335	419	502	586	670	754	.9
22.0	84	168	252	336	421	505	589	673	757	22.0
.1	85	169	253	338	423	507	592	675	761	.1
.2	85	170	255	340	424	509	594	678	764	.2
.3	85	171	256	341	426	512	597	682	767	.3
.4	86	171	257	343	428	514	600	685	771	.4
.5	86	172	258	344	430	516	602	688	774	.5
.6	86	173	259	346	432	518	605	691	778	.6
.7	87	174	260	347	434	521	608	694	781	.7
.8	87	174	262	349	436	523	610	697	785	.8
.9	88	175	263	350	438	525	613	700	788	.9
23.0	88	176	264	352	440	528	616	704	791	23.0
.1	88	177	265	353	442	530	618	707	795	.1
.2	89	177	266	355	444	532	621	710	798	.2
.3	89	178	267	356	445	535	624	713	802	.3
.4	89	179	268	358	447	537	626	716	805	.4
.5	90	180	270	359	449	539	629	719	809	.5
.6	90	180	271	361	451	541	632	722	812	.6
.7	91	181	273	362	453	544	635	725	816	.7
.8	91	182	273	364	455	546	637	728	819	.8
.9	91	183	274	366	457	548	640	731	822	.9
24.0	92	184	275	367	460	551	644	734	826	24.0

Depn. W. B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W. B. Thermr.
	23 in.	24 in.	25 in.	26 in.	27 in.	28 in.	29 in.	30 in.	31 in.	
°										°
18.0	.15829	.16517	.17206	.17894	.18582	.19270	.19959	.20647	.21335	18.0
.1	.15917	.16609	.17301	.17993	.18685	.19377	.20070	.20762	.21454	.1
.2	.16005	.16701	.17397	.18093	.18789	.19485	.20180	.20876	.21572	.2
.3	.16093	.16793	.17492	.18192	.18892	.19592	.20291	.20991	.21691	.3
.4	.16181	.16885	.17588	.18292	.18995	.19699	.20402	.21106	.21809	.4
.5	.16269	.16976	.17684	.18391	.19098	.19806	.20513	.21220	.21928	.5
.6	.16357	.17068	.17779	.18490	.19202	.19913	.20624	.21335	.22046	.6
.7	.16445	.17160	.17875	.18590	.19305	.20020	.20735	.21450	.22165	.7
.8	.16533	.17252	.17970	.18689	.19408	.20127	.20846	.21564	.22283	.8
.9	.16621	.17343	.18066	.18789	.19511	.20234	.20957	.21679	.22402	.9
19.0	.16709	.17435	.18162	.18888	.19615	.20341	.21067	.21794	.22520	19.0
.1	.16797	.17527	.18257	.18987	.19718	.20448	.21178	.21909	.22639	.1
.2	.16885	.17619	.18353	.19087	.19821	.20555	.21289	.22023	.22757	.2
.3	.16972	.17710	.18448	.19186	.19924	.20662	.21400	.22138	.22876	.3
.4	.17060	.17802	.18544	.19286	.20027	.20769	.21511	.22253	.22995	.4
.5	.17148	.17894	.18640	.19385	.20131	.20876	.21622	.22367	.23113	.5
.6	.17236	.17986	.18735	.19485	.20234	.20983	.21733	.22482	.23232	.6
.7	.17324	.18077	.18831	.19584	.20337	.21090	.21844	.22597	.23350	.7
.8	.17412	.18169	.18926	.19683	.20440	.21197	.21955	.22712	.23469	.8
.9	.17500	.18261	.19022	.19783	.20544	.21305	.22065	.22826	.23587	.9
20.0	.17588	.18353	.19117	.19882	.20647	.21412	.22176	.22941	.23706	20.0
.1	.17676	.18445	.19213	.19982	.20750	.21519	.22287	.23056	.23824	.1
.2	.17764	.18536	.19309	.20081	.20853	.21626	.22398	.23170	.23943	.2
.3	.17852	.18628	.19404	.20180	.20957	.21733	.22509	.23285	.24061	.3
.4	.17940	.18720	.19500	.20280	.21060	.21840	.22620	.23400	.24180	.4
.5	.18028	.18812	.19595	.20379	.21163	.21947	.22731	.23514	.24298	.5
.6	.18116	.18903	.19691	.20479	.21266	.22054	.22842	.23629	.24417	.6
.7	.18204	.18995	.19787	.20578	.21370	.22161	.22952	.23744	.24535	.7
.8	.18292	.19087	.19882	.20677	.21473	.22268	.23063	.23859	.24654	.8
.9	.18380	.19179	.19978	.20777	.21576	.22375	.23174	.23973	.24772	.9
21.0	.18467	.19270	.20073	.20876	.21679	.22482	.23285	.24088	.24891	21.0
.1	.18555	.19362	.20169	.20976	.21782	.22589	.23396	.24203	.25010	.1
.2	.18643	.19454	.20265	.21075	.21886	.22696	.23507	.24317	.25128	.2
.3	.18731	.19546	.20360	.21175	.21989	.22803	.23618	.24432	.25247	.3
.4	.18819	.19637	.20456	.21274	.22092	.22910	.23729	.24547	.25365	.4
.5	.18907	.19729	.20551	.21373	.22195	.23017	.23840	.24662	.25484	.5
.6	.18995	.19821	.20646	.21473	.22299	.23125	.23950	.24776	.25602	.6
.7	.19083	.19913	.20742	.21572	.22402	.23232	.24061	.24891	.25721	.7
.8	.19171	.20005	.20838	.21672	.22505	.23339	.24172	.25006	.25839	.8
.9	.19259	.20096	.20934	.21771	.22608	.23446	.24283	.25120	.25958	.9
22.0	.19347	.20188	.21029	.21870	.22712	.23553	.24394	.25235	.26076	22.0
.1	.19435	.20280	.21125	.21970	.22815	.23660	.24505	.25350	.26195	.1
.2	.19523	.20372	.21220	.22069	.22918	.23767	.24616	.25465	.26313	.2
.3	.19611	.20463	.21316	.22169	.23021	.23874	.24727	.25579	.26432	.3
.4	.19699	.20555	.21412	.22268	.23125	.23981	.24837	.25694	.26550	.4
.5	.19787	.20647	.21507	.22367	.23228	.24088	.24948	.25809	.26669	.5
.6	.19875	.20739	.21603	.22467	.23331	.24195	.25059	.25923	.26787	.6
.7	.19962	.20830	.21698	.22566	.23434	.24302	.25170	.26038	.26906	.7
.8	.20050	.20922	.21794	.22666	.23537	.24409	.25281	.26153	.27024	.8
.9	.20138	.21014	.21890	.22765	.23641	.24516	.25392	.26267	.27143	.9
23.0	.20226	.21106	.21985	.22865	.23744	.24623	.25503	.26382	.27262	23.0
.1	.20314	.21197	.22081	.22964	.23847	.24730	.25614	.26497	.27380	.1
.2	.20402	.21289	.22176	.23063	.23950	.24837	.25724	.26612	.27499	.2
.3	.20490	.21381	.22272	.23163	.24054	.24944	.25835	.26726	.27617	.3
.4	.20578	.21473	.22367	.23262	.24157	.25052	.25946	.26841	.27736	.4
.5	.20666	.21565	.22463	.23362	.24260	.25159	.26057	.26956	.27854	.5
.6	.20754	.21656	.22550	.23461	.24363	.25266	.26168	.27070	.27973	.6
.7	.20842	.21748	.22654	.23560	.24467	.25373	.26279	.27185	.28091	.7
.8	.20930	.21840	.22750	.23660	.24570	.25480	.26390	.27300	.28210	.8
.9	.21018	.21932	.22845	.23759	.24673	.25587	.26501	.27414	.28328	.9
24.0	.21106	.22023	.22941	.23859	.24776	.25694	.26612	.27529	.28447	24.0

Depn. W.B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W.B. Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
°										°
18.0	69	138	206	275	344	413	482	551	619	18.0
.1	69	138	208	277	346	415	484	554	623	.1
.2	70	139	209	278	348	418	487	557	626	.2
.3	70	140	210	280	350	420	490	560	630	.3
.4	70	141	211	281	352	422	492	563	633	.4
.5	71	141	212	283	354	424	495	565	637	.5
.6	71	142	213	284	356	427	498	569	640	.6
.7	72	143	215	286	358	429	501	572	644	.7
.8	72	144	216	288	359	431	503	575	647	.8
.9	72	145	217	289	361	434	506	577	650.	.9
19.0	73	145	218	291	363	436	509	581	654	19.0
.1	73	146	219	292	365	438	511	584	657	.1
.2	73	147	220	294	367	440	514	587	660	.2
.3	74	148	221	295	369	443	517	590	664	.3
.4	74	148	223	297	371	445	519	593	668	.4
.5	75	149	224	298	373	447	522	596	671	.5
.6	75	150	225	300	375	450	525	600	674	.6
.7	75	151	226	301	377	452	527	603	678	.7
.8	76	151	227	303	379	454	530	606	681	.8
.9	76	152	228	304	380	457	533	609	685	.9
20.0	76	153	239	306	382	459	535	612	688	20.0
.1	77	154	231	307	384	461	538	615	692	.1
.2	77	154	232	309	386	463	541	618	695	.2
.3	78	155	233	310	388	466	543	621	699	.3
.4	78	156	234	312	390	468	546	624	702	.4
.5	78	157	235	314	392	470	549	627	705	.5
.6	79	158	236	315	394	473	551	630	709	.6
.7	79	158	237	317	396	475	554	633	712	.7
.8	80	159	239	318	398	477	557	636	716	.8
.9	80	160	240	320	400	479	569	639	718	.9
21.0	80	161	241	321	401	482	562	642	723	21.0
.1	81	161	242	323	403	484	565	645	726	.1
.2	81	162	243	324	405	486	567	648	730	.2
.3	81	163	244	326	407	489	570	652	733	.3
.4	82	164	245	327	409	491	573	655	736	.4
.5	82	164	247	329	411	493	575	658	740	.5
.6	83	165	248	330	413	496	578	661	743	.6
.7	83	166	249	332	415	498	581	664	747	.7
.8	83	167	250	334	417	500	583	667	750	.8
.9	84	167	251	335	419	502	586	670	754	.9
22.0	84	168	252	336	421	505	589	673	757	22.0
.1	85	169	253	338	423	507	592	675	761	.1
.2	85	170	255	340	424	509	594	678	764	.2
.3	85	171	256	341	426	512	597	682	767	.3
.4	86	171	257	343	428	514	600	685	771	.4
.5	86	172	258	344	430	516	602	688	774	.5
.6	86	173	259	346	432	518	605	694	778	.6
.7	87	174	260	347	434	521	608	691	781	.7
.8	87	174	262	349	436	523	610	697	785	.8
.9	88	175	263	350	438	525	613	700	788	.9
23.0	88	176	264	352	440	528	616	704	791	23.0
.1	88	177	265	353	442	530	618	707	795	.1
.2	89	177	266	355	444	532	621	710	798	.2
.3	89	178	267	356	445	535	624	713	802	.3
.4	89	179	268	358	447	537	626	716	805	.4
.5	90	180	270	359	449	539	629	719	809	.5
.6	90	180	271	361	451	541	632	722	812	.6
.7	91	181	273	362	453	544	635	725	816	.7
.8	91	182	273	364	455	546	637	728	819	.8
.9	91	183	274	366	457	548	640	731	822	.9
24.0	92	184	275	367	460	551	643	734	826	24.0

Depn. W.B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W.B Thermr.
	14 in.	15 in.	16 in.	17 in.	18 in.	19 in.	20 in.	21 in.	22 in.	
°										°
24.0	.12846	.13764	.14682	.15599	.16517	.17434	.18353	.19270	.20188	24.0
.1	.12900	.13821	.14743	.15664	.16586	.17507	.18429	.19351	.20272	.1
.2	.12954	.13879	.14804	.15729	.16654	.17580	.18506	.19431	.20356	.2
.3	.13007	.13936	.14865	.15794	.16723	.17652	.18582	.19511	.20440	.3
.4	.13061	.13993	.14926	.15859	.16792	.17725	.18659	.19592	.20524	.4
.5	.13114	.14051	.14987	.15924	.16861	.17798	.18735	.19672	.20609	.5
.6	.13168	.14108	.15049	.15989	.16930	.17870	.18811	.19752	.20693	.6
.7	.13221	.14165	.15110	.16054	.16999	.17943	.18888	.19832	.20777	.7
.8	.13275	.14223	.15171	.16119	.17067	.18016	.18965	.19913	.20861	.8
.9	.13328	.14280	.15232	.16184	.17136	.18088	.19041	.19993	.20945	.9
25.0	.13381	.14338	.15293	.16249	.17205	.18161	.19117	.20073	.21029	25.0
.1	.13435	.14395	.15355	.16314	.17274	.18233	.19194	.20154	.21113	.1
.2	.13489	.14452	.15416	.16379	.17343	.18306	.19270	.20234	.21197	.2
.3	.13542	.14510	.15477	.16444	.17412	.18379	.19347	.20314	.21282	.3
.4	.13596	.14567	.15538	.16509	.17480	.18451	.19423	.20394	.21366	.4
.5	.13649	.14624	.15599	.16574	.17549	.18524	.19500	.20475	.21450	.5
.6	.13703	.14682	.15660	.16639	.17618	.18597	.19576	.20555	.21534	.6
.7	.13757	.14739	.15722	.16704	.17687	.18669	.19653	.20635	.21618	.7
.8	.13810	.14796	.15783	.16769	.17756	.18742	.19729	.20716	.21702	.8
.9	.13864	.14854	.15844	.16834	.17824	.18815	.19806	.20796	.21786	.9
26.0	.13917	.14911	.15905	.16899	.17893	.18887	.19882	.20876	.21870	26.0
.1	.13971	.14968	.15966	.16964	.17962	.18960	.19959	.20957	.21955	.1
.2	.14024	.15026	.16027	.17029	.18031	.19033	.20035	.21037	.22039	.2
.3	.14078	.15083	.16089	.17094	.18100	.19105	.20112	.21117	.22123	.3
.4	.14131	.15140	.16150	.17159	.18169	.19178	.20188	.21197	.22207	.4
.5	.14185	.15198	.16211	.17224	.18237	.19250	.20264	.21278	.22291	.5
.6	.14238	.15255	.16272	.17289	.18306	.19323	.20341	.21358	.22375	.6
.7	.14292	.15312	.16333	.17354	.18375	.19396	.20417	.21438	.22459	.7
.8	.14345	.15370	.16394	.17419	.18444	.19468	.20494	.21519	.22543	.8
.9	.14399	.15427	.16456	.17484	.18513	.19541	.20570	.21599	.22627	.9
27.0	.14452	.15485	.16517	.17549	.18581	.19614	.20647	.21679	.22712	27.0
.1	.14506	.15542	.16578	.17614	.18650	.19686	.20723	.21759	.22796	.1
.2	.14559	.15599	.16639	.17679	.18719	.19759	.20800	.21840	.22880	.2
.3	.14613	.15657	.16700	.17744	.18788	.19832	.20876	.21920	.22964	.3
.4	.14666	.15714	.16761	.17809	.18857	.19904	.20953	.22000	.23048	.4
.5	.14720	.15771	.16822	.17874	.18926	.19977	.21029	.22081	.23132	.5
.6	.14774	.15829	.16883	.17939	.18994	.20050	.21106	.22162	.23216	.6
.7	.14827	.15886	.16945	.18004	.19063	.20122	.21182	.22242	.23300	.7
.8	.14881	.15943	.17006	.18069	.19132	.20195	.21259	.22322	.23384	.8
.9	.14934	.16001	.17067	.18134	.19201	.20267	.21335	.22402	.23469	.9
28.0	.14988	.16058	.17129	.18199	.19270	.20340	.21412	.22482	.23553	28.0
.1	.15041	.16115	.17190	.18264	.19338	.20413	.21488	.22562	.23637	.1
.2	.15095	.16173	.17251	.18329	.19407	.20485	.21564	.22643	.23721	.2
.3	.15148	.16230	.17312	.18394	.19476	.20558	.21641	.22723	.23805	.3
.4	.15202	.16287	.17373	.18459	.19545	.20631	.21717	.22803	.23889	.4
.5	.15255	.16345	.17434	.18524	.19614	.20703	.21790	.22884	.23973	.5
.6	.15309	.16402	.17496	.18589	.19683	.20776	.21870	.22964	.24057	.6
.7	.15362	.16459	.17557	.18654	.19751	.20849	.21947	.23044	.24142	.7
.8	.15416	.16517	.17618	.18719	.19820	.20921	.22023	.23124	.24226	.8
.9	.15469	.16574	.17679	.18784	.19889	.20994	.22100	.23205	.24310	.9
29.0	.15522	.16632	.17740	.18849	.19958	.21067	.22176	.23285	.24394	29.0
.1	.15576	.16689	.17801	.18914	.20027	.21139	.22253	.23365	.24478	.1
.2	.15630	.16746	.17863	.18979	.20095	.21212	.22329	.23446	.24562	.2
.3	.15683	.16804	.17924	.19044	.20164	.21284	.22406	.23526	.24646	.3
.4	.15737	.16861	.17985	.19109	.20233	.21357	.22482	.23606	.24730	.4
.5	.15791	.16918	.18046	.19174	.20302	.21430	.22559	.23687	.24814	.5
.6	.15844	.16976	.18107	.19239	.20371	.21502	.22635	.23767	.24899	.6
.7	.15898	.17033	.18168	.19304	.20440	.21575	.22712	.23847	.24983	.7
.8	.15951	.17090	.18230	.19369	.20508	.21648	.22788	.23927	.25067	.8
.9	.16005	.17148	.18291	.19434	.20577	.21720	.22864	.24008	.25151	.9
30.0	.16058	.17205	.18352	.19499	.20646	.21792	.22940	.24088	.25235	30.0

Depn. W. B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W. B. Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
°										°
24.0	92	184	275	367	460	551	642	734	826	24.0
.1	92	184	276	369	461	553	645	737	829	.1
.2	93	185	278	370	463	555	648	740	833	.2
.3	93	186	279	372	465	558	650	743	836	.3
.4	93	187	280	373	466	560	653	746	840	.4
.5	94	187	281	374	468	562	656	749	843	.5
.6	94	188	282	376	470	564	658	753	847	.6
.7	94	189	283	377	472	567	661	756	851	.7
.8	95	190	285	379	474	569	664	759	853	.8
.9	95	190	286	381	476	571	666	762	857	.9
25.0	96	191	287	382	478	574	669	765	860	25.0
.1	96	192	288	384	480	576	672	768	864	.1
.2	96	193	289	385	482	578	675	771	867	.2
.3	97	194	290	387	484	580	677	774	871	.3
.4	97	194	291	389	486	583	680	777	874	.4
.5	98	195	293	390	488	585	683	780	878	.5
.6	98	196	294	392	489	587	685	783	881	.6
.7	98	196	295	393	491	590	688	786	884	.7
.8	99	197	296	395	493	592	691	789	888	.8
.9	99	198	297	396	495	594	693	792	891	.9
26.0	99	199	298	398	497	597	696	795	895	26.0
.1	100	200	299	399	499	599	699	798	898	.1
.2	100	200	301	401	501	601	701	801	902	.2
.3	101	201	302	402	503	603	704	805	905	.3
.4	101	202	303	404	505	606	707	808	909	.4
.5	101	203	304	405	507	608	709	811	912	.5
.6	102	203	305	407	509	610	712	814	915	.6
.7	102	204	306	408	510	613	715	817	919	.7
.8	103	205	307	410	512	615	717	820	922	.8
.9	103	206	309	411	514	617	720	823	926	.9
27.0	103	207	310	413	516	619	723	826	929	27.0
.1	104	207	311	415	518	622	725	829	933	.1
.2	104	208	312	416	520	624	728	832	936	.2
.3	104	209	313	418	522	626	731	835	939	.3
.4	105	210	314	419	524	629	733	838	943	.4
.5	105	210	315	421	526	631	736	841	946	.5
.6	106	211	317	422	528	633	739	844	950	.6
.7	106	212	318	424	530	636	741	847	953	.7
.8	106	213	319	425	531	638	744	850	957	.8
.9	107	213	320	427	533	640	747	853	960	.9
28.0	107	214	321	428	535	642	749	856	964	28.0
.1	107	215	322	430	537	645	752	859	967	.1
.2	108	216	324	431	539	647	755	863	970	.2
.3	108	216	325	433	541	649	757	866	974	.3
.4	109	217	326	434	543	652	760	869	977	.4
.5	109	218	327	436	545	654	763	872	981	.5
.6	109	219	328	438	547	656	766	875	984	.6
.7	110	220	329	439	549	658	768	878	988	.7
.8	110	220	330	441	551	661	771	881	991	.8
.9	111	221	332	442	553	663	774	884	995	.9
29.0	111	222	333	444	554	665	776	887	998	29.0
.1	111	223	334	445	556	668	779	890	1001	.1
.2	112	223	335	447	558	670	782	893	1005	.2
.3	112	224	336	448	560	672	784	896	1008	.3
.4	112	225	337	450	562	675	787	899	1012	.4
.5	113	226	338	451	564	677	790	902	1015	.5
.6	113	226	340	453	566	679	792	905	1019	.6
.7	114	227	341	454	568	681	795	909	1022	.7
.8	114	228	342	456	570	684	798	912	1026	.8
.9	114	229	343	457	572	686	800	915	1029	.9
30.0	115	229	344	459	574	688	803	918	1032	30.0

Depn. W.B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W. B. Thermr.
	23 in.	24 in.	25 in.	26 in.	27 in.	28 in.	29 in.	30 in.	31 in.	
c										°
24.0	.21106	.22023	.22941	.23859	.24776	.25694	.26612	.27529	.28447	24.0
.1	.21194	.22115	.23037	.23958	.24879	.25801	.26722	.27644	.28565	.1
.2	.21282	.22207	.23132	.24057	.24983	.25908	.26833	.27759	.28684	.2
.3	.21370	.22299	.23228	.24157	.25086	.26015	.26944	.27873	.28802	.3
.4	.21457	.22390	.23323	.24256	.25189	.26122	.27055	.27988	.28921	.4
.5	.21545	.22482	.23420	.24356	.25292	.26229	.27166	.28103	.29039	.5
.6	.21633	.22574	.23515	.24455	.25396	.26336	.27277	.28217	.29158	.6
.7	.21721	.22666	.23610	.24555	.25499	.26443	.27388	.28332	.29277	.7
.8	.21809	.22757	.23705	.24654	.25602	.26550	.27499	.28447	.29395	.8
.9	.21897	.22849	.23801	.24753	.25705	.26657	.27609	.28562	.29514	.9
25.0	.21985	.22941	.23897	.24853	.25809	.26764	.27720	.28676	.29632	25.0
.1	.22073	.23033	.23992	.24952	.25912	.26872	.27831	.28791	.29751	.1
.2	.22161	.23124	.24088	.25052	.26015	.26979	.27942	.28906	.29869	.2
.3	.22249	.23216	.24184	.25151	.26118	.27086	.28053	.29020	.29988	.3
.4	.22337	.23308	.24279	.25250	.26222	.27193	.28164	.29135	.30106	.4
.5	.22425	.23400	.24375	.25350	.26325	.27300	.28275	.29250	.30225	.5
.6	.22513	.23492	.24470	.25449	.26428	.27407	.28386	.29364	.30343	.6
.7	.22601	.23583	.24566	.25549	.26531	.27514	.28497	.29479	.30462	.7
.8	.22689	.23675	.24662	.25648	.26634	.27621	.28607	.29594	.30580	.8
.9	.22777	.23767	.24757	.25747	.26738	.27728	.28718	.29709	.30699	.9
26.0	.22864	.23859	.24853	.25847	.26841	.27835	.28829	.29823	.30817	26.0
.1	.22952	.23950	.24948	.25946	.26944	.27942	.28940	.29938	.30936	.1
.2	.23040	.24042	.25044	.26046	.27047	.28049	.29051	.30053	.31054	.2
.3	.23128	.24134	.25139	.26145	.27151	.28156	.29162	.30167	.31173	.3
.4	.23216	.24226	.25235	.26244	.27254	.28263	.29273	.30282	.31291	.4
.5	.23304	.24317	.25331	.26344	.27357	.28370	.29384	.30397	.31410	.5
.6	.23392	.24409	.25426	.26443	.27460	.28477	.29494	.30511	.31529	.6
.7	.23480	.24501	.25522	.26543	.27564	.28584	.29605	.30626	.31647	.7
.8	.23568	.24593	.25617	.26642	.27667	.28691	.29716	.30741	.31766	.8
.9	.23656	.24684	.25713	.26742	.27770	.28799	.29827	.30856	.31884	.9
27.0	.23744	.24776	.25809	.26841	.27873	.28906	.29938	.30970	.32003	27.0
.1	.23832	.24868	.25904	.26940	.27977	.29013	.30049	.31085	.32121	.1
.2	.23920	.24960	.26000	.27040	.28080	.29120	.30160	.31200	.32240	.2
.3	.24008	.25052	.26095	.27139	.28183	.29227	.30271	.31314	.32358	.3
.4	.24096	.25143	.26191	.27239	.28286	.29334	.30381	.31429	.32477	.4
.5	.24184	.25235	.26287	.27338	.28389	.29441	.30492	.31545	.32595	.5
.6	.24272	.25327	.26383	.27438	.28493	.29548	.30603	.31660	.32713	.6
.7	.24359	.25419	.26478	.27537	.28596	.29655	.30714	.31775	.32832	.7
.8	.24447	.25510	.26573	.27636	.28699	.29762	.30825	.31889	.32951	.8
.9	.24535	.25602	.26669	.27736	.28802	.29869	.30936	.32003	.33069	.9
28.0	.24623	.25694	.26764	.27835	.28906	.29976	.31047	.32117	.33188	28.0
.1	.24711	.25786	.26860	.27934	.29009	.30083	.31158	.32232	.33306	.1
.2	.24799	.25877	.26956	.28034	.29112	.30190	.31269	.32347	.33425	.2
.3	.24887	.25969	.27051	.28133	.29215	.30297	.31379	.32461	.33544	.3
.4	.24975	.26061	.27147	.28233	.29319	.30404	.31490	.32576	.33662	.4
.5	.25063	.26153	.27242	.28332	.29422	.30511	.31600	.32691	.33781	.5
.6	.25151	.26245	.27338	.28432	.29525	.30618	.31712	.32806	.33899	.6
.7	.25239	.26336	.27434	.28531	.29628	.30726	.31823	.32920	.34018	.7
.8	.25327	.26428	.27529	.28630	.29731	.30833	.31934	.33035	.34136	.8
.9	.25415	.26520	.27625	.28730	.29835	.30940	.32045	.33150	.34255	.9
29.0	.25503	.26612	.27720	.28829	.29938	.31047	.32156	.33264	.34373	29.0
.1	.25591	.26703	.27816	.28929	.30041	.31154	.32266	.33379	.34492	.1
.2	.25679	.26795	.27912	.29028	.30144	.31261	.32377	.33494	.34610	.2
.3	.25767	.26887	.28007	.29127	.30248	.31368	.32488	.33609	.34729	.3
.4	.25854	.26979	.28103	.29227	.30351	.31475	.32599	.33723	.34847	.4
.5	.25942	.27070	.28198	.29326	.30454	.31582	.32710	.33838	.34965	.5
.6	.26030	.27162	.28294	.29426	.30557	.31689	.32821	.33953	.35084	.6
.7	.26118	.27254	.28389	.29525	.30661	.31796	.32932	.34067	.35203	.7
.8	.26206	.27346	.28485	.29624	.30764	.31903	.33043	.34182	.35321	.8
.9	.26294	.27437	.28580	.29724	.30867	.32010	.33154	.34296	.35440	.9
30.0	.26381	.27528	.28675	.29825	.30969	.32115	.33264	.34410	.35557	30.0

Depn. W.B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W.B. Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
°										°
24.0	92	184	275	367	460	551	642	734	826	24.0
.1	92	184	276	369	461	553	645	737	829	.1
.2	93	185	278	370	463	555	648	740	833	.2
.3	93	186	279	372	465	558	650	743	836	.3
.4	93	187	280	373	466	560	653	746	840	.4
.5	94	187	281	374	468	562	656	749	843	.5
.6	94	188	282	376	470	564	658	753	847	.6
.7	94	189	283	377	472	567	661	756	851	.7
.8	95	190	285	379	474	569	664	759	853	.8
.9	95	190	286	381	476	571	666	762	857	.9
25.0	96	191	287	382	478	574	669	765	860	25.0
.1	96	192	288	384	480	576	672	768	864	.1
.2	96	193	289	385	482	578	675	771	867	.2
.3	97	194	290	387	484	580	677	774	871	.3
.4	97	194	291	389	486	583	680	777	874	.4
.5	98	195	293	390	488	585	683	780	878	.5
.6	98	196	294	392	489	587	685	783	881	.6
.7	98	196	295	393	491	590	688	786	884	.7
.8	99	197	296	395	493	592	691	789	888	.8
.9	99	198	297	396	495	594	693	792	891	.9
26.0	99	199	298	398	497	597	696	795	895	26.0
.1	100	200	299	399	499	599	699	798	898	.1
.2	100	200	301	401	501	601	701	801	902	.2
.3	101	201	302	402	503	603	704	805	905	.3
.4	101	202	303	404	505	606	707	808	909	.4
.5	101	203	304	405	507	608	709	811	912	.5
.6	102	203	305	407	509	610	712	814	915	.6
.7	102	204	306	408	510	613	715	817	919	.7
.8	103	205	307	410	512	615	717	820	922	.8
.9	103	206	309	411	514	617	720	823	926	.9
27.0	103	207	310	413	516	619	723	826	929	27.0
.1	104	207	311	415	518	622	725	829	933	.1
.2	104	208	312	416	520	624	728	832	936	.2
.3	104	209	313	418	522	626	731	835	939	.3
.4	105	210	314	419	524	629	733	838	943	.4
.5	105	210	315	421	526	631	736	841	946	.5
.6	106	211	317	422	528	633	739	844	950	.6
.7	106	212	318	424	530	636	741	847	953	.7
.8	106	213	319	425	531	638	744	850	957	.8
.9	107	213	320	427	533	640	747	853	960	.9
28.0	107	214	321	428	535	642	749	856	964	28.0
.1	107	215	322	430	537	645	752	859	967	.1
.2	108	216	324	431	539	647	755	863	970	.2
.3	108	216	325	433	541	649	757	866	974	.3
.4	109	217	326	434	543	652	760	869	977	.4
.5	109	218	327	436	545	654	763	872	981	.5
.6	109	219	328	438	547	656	766	875	984	.6
.7	110	220	329	439	549	658	768	878	988	.7
.8	110	220	330	441	551	661	771	881	991	.8
.9	111	221	332	442	553	663	774	884	995	.9
29.0	111	222	333	444	554	665	776	887	908	29.0
.1	111	223	334	445	556	668	779	890	1001	.1
.2	112	223	335	447	558	670	782	893	1005	.2
.3	112	224	336	448	560	672	784	896	1008	.3
.4	112	225	337	450	562	675	787	899	1012	.4
.5	113	226	338	451	564	677	790	902	1015	.5
.6	113	226	340	453	566	679	792	905	1019	.6
.7	114	227	341	454	568	681	795	909	1022	.7
.8	114	228	342	456	570	684	798	912	1026	.8
.9	114	229	343	457	572	686	800	915	1029	.9
30.0	115	229	344	459	574	688	803	918	1032	30.0

Depn. W. B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W. B. Thermr.
	14 in.	15 in.	16 in.	17 in.	18 in.	19 in.	20 in.	21 in.	22 in.	
°										°
30.0	.16058	.17205	.18352	.19499	.20646	.21793	.22940	.24087	.25234	30.0
.1	.16111	.17262	.18413	.19564	.20715	.21866	.23017	.24167	.25318	.1
.2	.16164	.17320	.18474	.19629	.20784	.21938	.23093	.24248	.25402	.2
.3	.16218	.17377	.18535	.19694	.20852	.22011	.23170	.24328	.25486	.3
.4	.16271	.17434	.18597	.19759	.20921	.22083	.23246	.24408	.25570	.4
.5	.16325	.17492	.18658	.19824	.20990	.22156	.23322	.24488	.25654	.5
.6	.16379	.17549	.18719	.19889	.21059	.22229	.23399	.24569	.25739	.6
.7	.16432	.17606	.18780	.19954	.21128	.22301	.23475	.24649	.25823	.7
.8	.16486	.17664	.18841	.20019	.21197	.22374	.23552	.24729	.25907	.8
.9	.16539	.17721	.18902	.20084	.21265	.22447	.23628	.24810	.25991	.9
31.0	.16593	.17779	.18964	.20149	.21334	.22519	.23705	.24890	.26075	31.0
.1	.16646	.17836	.19025	.20214	.21403	.22592	.23781	.24970	.26159	.1
.2	.16700	.17893	.19086	.20279	.21472	.22665	.23858	.25050	.26243	.2
.3	.16753	.17951	.19147	.20344	.21541	.22737	.23934	.25131	.26327	.3
.4	.16807	.18008	.19208	.20409	.21609	.22810	.24011	.25211	.26411	.4
.5	.16860	.18065	.19269	.20474	.21678	.22883	.24087	.25291	.26496	.5
.6	.16914	.18123	.19331	.20539	.21747	.22955	.24164	.25372	.26580	.6
.7	.16967	.18180	.19392	.20604	.21816	.23028	.24240	.25452	.26664	.7
.8	.17021	.18237	.19453	.20669	.21885	.23100	.24317	.25532	.26748	.8
.9	.17074	.18295	.19514	.20734	.21954	.23173	.24393	.25613	.26832	.9
32.0	.17128	.18352	.19575	.20799	.22022	.23246	.24469	.25693	.26916	32.0
.1	.17182	.18409	.19637	.20864	.22091	.23318	.24546	.25773	.27000	.1
.2	.17235	.18467	.19698	.20929	.22160	.23391	.24622	.25853	.27084	.2
.3	.17289	.18524	.19759	.20994	.22229	.23464	.24699	.25934	.27168	.3
.4	.17342	.18581	.19820	.21059	.22298	.23536	.24775	.26014	.27253	.4
.5	.17396	.18639	.19881	.21124	.22367	.23609	.24852	.26094	.27337	.5
.6	.17449	.18696	.19942	.21189	.22435	.23682	.24928	.26175	.27421	.6
.7	.17503	.18753	.20003	.21254	.22504	.23754	.25005	.26255	.27505	.7
.8	.17556	.18811	.20064	.21319	.22573	.23827	.25081	.26335	.27589	.8
.9	.17610	.18868	.20126	.21384	.22642	.23900	.25158	.26415	.27673	.9
33.0	.17663	.18926	.20187	.21449	.22711	.23972	.25234	.26496	.27757	33.0
.1	.17717	.18983	.20248	.21514	.22779	.24045	.25311	.26576	.27841	.1
.2	.17770	.19040	.20309	.21579	.22848	.24117	.25387	.26656	.27926	.2
.3	.17823	.19098	.20371	.21644	.22917	.24190	.25464	.26737	.28010	.3
.4	.17877	.19155	.20432	.21709	.22986	.24263	.25540	.26817	.28094	.4
.5	.17931	.19212	.20493	.21774	.23055	.24335	.25616	.26897	.28178	.5
.6	.17984	.19270	.20554	.21839	.23124	.24408	.25693	.26977	.28262	.6
.7	.18038	.19327	.20615	.21904	.23192	.24481	.25769	.27058	.28346	.7
.8	.18091	.19384	.20676	.21969	.23261	.24553	.25846	.27138	.28430	.8
.9	.18145	.19442	.20738	.22034	.23330	.24626	.25922	.27218	.28514	.9
34.0	.18199	.19499	.20799	.22099	.23399	.24699	.25999	.27299	.28598	34.0
.1	.18252	.19556	.20860	.22164	.23468	.24771	.26075	.27379	.28683	.1
.2	.18306	.19614	.20921	.22229	.23536	.24844	.26152	.27459	.28767	.2
.3	.18359	.19671	.20982	.22294	.23605	.24917	.26228	.27539	.28851	.3
.4	.18413	.19728	.21044	.22359	.23674	.24989	.26305	.27620	.28935	.4
.5	.18466	.19786	.21105	.22424	.23743	.25062	.26381	.27700	.29019	.5
.6	.18520	.19843	.21166	.22489	.23812	.25134	.26458	.27780	.29103	.6
.7	.18573	.19900	.21227	.22554	.23881	.25207	.26534	.27861	.29187	.7
.8	.18627	.19958	.21288	.22619	.23949	.25280	.26611	.27941	.29271	.8
.9	.18680	.20015	.21349	.22684	.24018	.25352	.26687	.28021	.29355	.9
35.0	.18734	.20073	.21411	.22749	.24087	.25425	.26763	.28102	.29440	35.0
.1	.18787	.20130	.21472	.22814	.24156	.25498	.26840	.28182	.29524	.1
.2	.18841	.20187	.21533	.22879	.24225	.25570	.26916	.28262	.29608	.2
.3	.18894	.20245	.21594	.22944	.24293	.25643	.26993	.28342	.29692	.3
.4	.18947	.20302	.21655	.23009	.24362	.25716	.27069	.28423	.29776	.4
.5	.19001	.20359	.21716	.23074	.24431	.25788	.27146	.28503	.29860	.5
.6	.19055	.20417	.21778	.23139	.24500	.25861	.27222	.28583	.29944	.6
.7	.19108	.20474	.21839	.23204	.24569	.25934	.27299	.28664	.30028	.7
.8	.19162	.20531	.21900	.23269	.24638	.26006	.27375	.28744	.30112	.8
.9	.19215	.20589	.21961	.23334	.24706	.26079	.27452	.28824	.30197	.9
36.0	.19269	.20646	.22023	.23399	.24775	.26151	.27528	.28904	.30281	36.0

Depn. W. B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W. B. Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
°										°
30.0	115	229	344	459	574	688	803	918	1032	30.0
.1	115	230	345	460	575	690	805	920	1035	.1
.2	115	231	347	462	578	693	808	923	1039	.2
.3	116	232	347	463	579	695	811	926	1042	.3
.4	116	232	349	465	581	697	813	930	1046	.4
.5	117	233	350	466	583	700	816	933	1049	.5
.6	117	234	351	468	585	702	819	936	1053	.6
.7	117	235	352	469	587	704	821	938	1056	.7
.8	118	235	353	471	589	706	824	942	1059	.8
.9	118	236	354	472	591	709	827	945	1063	.9
31.0	119	237	356	474	593	711	830	948	1067	31.0
.1	119	238	357	476	595	713	832	951	1070	.1
.2	119	239	358	477	597	716	835	954	1074	.2
.3	120	239	359	479	599	718	838	958	1077	.3
.4	120	240	360	480	600	720	840	960	1080	.4
.5	120	241	361	482	602	722	843	963	1084	.5
.6	121	242	362	483	604	725	846	966	1087	.6
.7	121	242	364	485	606	727	848	970	1091	.7
.8	122	243	365	486	608	730	851	973	1094	.8
.9	122	244	366	488	610	732	854	976	1098	.9
32.0	123	245	367	489	612	734	856	978	1101	32.0
.1	123	245	368	491	614	736	859	982	1104	.1
.2	123	246	369	492	616	739	862	985	1108	.2
.3	124	247	371	494	618	741	865	988	1111	.3
.4	124	248	371	495	619	743	867	990	1114	.4
.5	124	248	373	497	621	745	869	994	1118	.5
.6	125	249	374	498	623	748	872	997	1121	.6
.7	125	250	375	500	625	750	875	1000	1125	.7
.8	125	251	376	502	627	752	878	1003	1129	.8
.9	126	252	377	503	629	755	881	1006	1132	.9
33.0	126	252	379	505	631	757	883	1010	1136	33.0
.1	127	253	380	506	633	760	886	1013	1139	.1
.2	127	254	381	508	635	762	889	1016	1143	.2
.3	127	255	382	509	637	764	891	1018	1146	.3
.4	128	255	383	511	639	766	894	1022	1149	.4
.5	128	256	384	512	641	769	897	1025	1153	.5
.6	129	257	386	514	643	771	900	1028	1157	.6
.7	129	258	386	515	644	773	902	1030	1159	.7
.8	129	258	388	517	646	775	904	1034	1163	.8
.9	130	259	389	518	648	778	907	1037	1166	.9
34.0	130	260	390	520	650	780	910	1040	1170	34.0
.1	130	261	391	521	652	782	912	1042	1173	.1
.2	130	261	392	523	654	784	915	1046	1176	.2
.3	131	262	393	524	656	787	918	1049	1180	.3
.4	132	263	395	526	658	789	921	1052	1184	.4
.5	132	264	396	528	660	792	923	1055	1187	.5
.6	132	265	397	529	662	794	926	1058	1191	.6
.7	133	265	398	530	663	796	928	1061	1194	.7
.8	133	266	399	532	665	798	931	1064	1197	.8
.9	133	267	400	534	667	800	934	1067	1201	.9
35.0	134	268	401	535	669	803	937	1070	1204	35.0
.1	134	268	403	537	671	805	939	1074	1208	.1
.2	135	269	404	538	673	808	942	1077	1211	.2
.3	135	270	405	540	675	810	945	1080	1215	.3
.4	135	271	406	541	677	812	947	1082	1218	.4
.5	136	271	407	543	679	814	950	1086	1221	.5
.6	136	272	408	544	681	817	953	1089	1225	.6
.7	137	273	410	546	683	819	956	1092	1229	.7
.8	137	274	411	548	685	821	958	1095	1232	.8
.9	137	275	412	549	687	824	961	1098	1236	.9
36.0	138	275	413	550	688	826	963	1101	1238	36.0

Depn. W. B. Thermr.	Tension of Vapour to Height of Barometer and Depression of Wet Bulb Thermometer.									Depn. W. B. Thermr.
	23 in.	24 in.	25 in.	26 in.	27 in.	28 in.	29 in.	30 in.	31 in.	
°										°
30.0	.26381	.27528	.28675	.29825	.30969	.32115	.33264	.34410	.35557	30.0
.1	.26469	.27620	.28771	.29925	.31072	.32222	.33375	.34525	.35675	.1
.2	.26557	.27712	.28866	.30024	.31175	.32329	.33486	.34639	.35793	.2
.3	.26645	.27803	.28962	.30124	.31279	.32436	.33597	.34754	.35912	.3
.4	.26733	.27895	.29057	.30223	.31382	.32543	.33708	.34869	.36030	.4
.5	.26821	.27987	.29153	.30322	.31485	.32650	.33818	.34983	.36149	.5
.6	.26909	.28079	.29248	.30422	.31588	.32757	.33929	.35098	.36267	.6
.7	.26997	.28170	.29344	.30521	.31692	.32864	.34040	.35213	.36386	.7
.8	.27085	.28262	.29440	.30621	.31795	.32971	.34151	.35328	.36504	.8
.9	.27173	.28354	.29535	.30720	.31898	.33078	.34262	.35442	.36623	.9
31.0	.27260	.28446	.29631	.30820	.32001	.33186	.34373	.35557	.36741	31.0
.1	.27348	.28537	.29726	.30919	.32105	.33293	.34484	.35672	.36860	.1
.2	.27436	.28629	.29822	.31018	.32208	.33400	.34595	.35786	.36978	.2
.3	.27524	.28721	.29917	.31118	.32311	.33507	.34705	.35901	.37097	.3
.4	.27612	.28813	.30013	.31217	.32414	.33614	.34816	.36016	.37215	.4
.5	.27700	.28904	.30109	.31317	.32517	.33721	.34927	.36131	.37334	.5
.6	.27788	.28996	.30204	.31416	.32621	.33828	.35038	.36245	.37452	.6
.7	.27876	.29088	.30300	.31516	.32724	.33935	.35149	.36360	.37571	.7
.8	.27964	.29180	.30395	.31615	.32827	.34042	.35260	.36475	.37689	.8
.9	.28052	.29271	.30491	.31714	.32930	.34149	.35371	.36589	.37808	.9
32.0	.28140	.29363	.30586	.31814	.33034	.34256	.35482	.36704	.37926	32.0
.1	.28228	.29455	.30682	.31913	.33137	.34363	.35592	.36819	.38045	.1
.2	.28316	.29547	.30778	.32013	.33240	.34470	.35703	.36933	.38163	.2
.3	.28404	.29638	.30873	.32112	.33343	.34577	.35814	.37048	.38282	.3
.4	.28492	.29730	.30969	.32211	.33447	.34684	.35925	.37163	.38400	.4
.5	.28580	.29822	.31064	.32311	.33550	.34791	.36036	.37278	.38519	.5
.6	.28667	.29914	.31160	.32410	.33653	.34898	.36147	.37392	.38638	.6
.7	.28755	.30006	.31256	.32510	.33756	.35005	.36258	.37507	.38756	.7
.8	.28843	.30097	.31351	.32609	.33859	.35112	.36369	.37622	.38875	.8
.9	.28931	.30189	.31447	.32709	.33963	.35219	.36480	.37736	.38993	.9
33.0	.29019	.30281	.31542	.32808	.34066	.35327	.36590	.37851	.39112	33.0
.1	.29107	.30373	.31638	.32907	.34169	.35434	.36701	.37966	.39230	.1
.2	.29195	.30464	.31733	.33007	.34272	.35541	.36812	.38080	.39349	.2
.3	.29283	.30556	.31829	.33106	.34376	.35648	.36923	.38195	.39467	.3
.4	.29371	.30648	.31924	.33206	.34479	.35755	.37034	.38310	.39586	.4
.5	.29459	.30740	.32020	.33305	.34582	.35862	.37145	.38425	.39704	.5
.6	.29547	.30831	.32116	.33404	.34685	.35969	.37256	.38539	.39823	.6
.7	.29635	.30923	.32212	.33504	.34789	.36076	.37367	.38654	.39941	.7
.8	.29723	.31015	.32307	.33603	.34892	.36183	.37477	.38769	.40060	.8
.9	.29811	.31107	.32403	.33703	.34995	.36290	.37588	.38883	.40178	.9
34.0	.29899	.31198	.32498	.33802	.35098	.36397	.37699	.38998	.40297	34.0
.1	.29987	.31290	.32594	.33902	.35201	.36504	.37810	.39113	.40415	.1
.2	.30074	.31382	.32690	.34001	.35305	.36611	.37921	.39227	.40534	.2
.3	.30162	.31474	.32785	.34100	.35408	.36718	.38032	.39342	.40652	.3
.4	.30250	.31565	.32881	.34200	.35511	.36825	.38143	.39457	.40771	.4
.5	.30338	.31657	.32976	.34299	.35614	.36932	.38254	.39572	.40889	.5
.6	.30426	.31749	.33072	.34399	.35718	.37039	.38364	.39686	.41008	.6
.7	.30514	.31840	.33167	.34498	.35821	.37146	.38475	.39801	.41126	.7
.8	.30602	.31932	.33263	.34597	.35924	.37253	.38586	.39916	.41245	.8
.9	.30690	.32024	.33359	.34697	.36027	.37360	.38697	.40030	.41363	.9
35.0	.30778	.32116	.33454	.34796	.36131	.37468	.38808	.40145	.41482	35.0
.1	.30866	.32208	.33550	.34896	.36234	.37575	.38919	.40260	.41601	.1
.2	.30954	.32300	.33645	.34995	.36337	.37682	.39030	.40374	.41719	.2
.3	.31042	.32391	.33741	.35095	.36440	.37789	.39141	.40489	.41838	.3
.4	.31130	.32483	.33837	.35194	.36543	.37896	.39252	.40604	.41956	.4
.5	.31218	.32575	.33932	.35293	.36647	.38003	.39362	.40719	.42075	.5
.6	.31306	.32667	.34028	.35393	.36750	.38110	.39473	.40833	.42193	.6
.7	.31394	.32758	.34123	.35492	.36853	.38217	.39584	.40948	.42312	.7
.8	.31481	.32850	.34219	.35592	.37956	.38324	.39695	.41063	.42430	.8
.9	.31569	.32942	.34314	.35691	.37060	.38431	.39806	.41177	.42549	.9
36.0	.31657	.33033	.34410	.35790	.36163	.38538	.39917	.41292	.42667	36.0

Depn. W.B. Thermr.	Proportional parts for Decimals of an Inch of the Barometer.									Depn. W.B. Thermr.
	.1	.2	.3	.4	.5	.6	.7	.8	.9	
°										°
30.0	115	229	344	459	574	688	803	918	1032	30.0
.1	115	230	345	460	575	690	805	920	1035	.1
.2	115	231	347	462	578	693	808	923	1039	.2
.3	116	232	347	463	579	695	811	926	1042	.3
.4	116	232	349	465	581	697	813	930	1046	.4
.5	117	233	350	466	583	700	816	933	1049	.5
.6	117	234	351	468	585	702	819	936	1053	.6
.7	117	235	352	469	587	704	821	938	1056	.7
.8	118	235	353	471	589	706	824	942	1059	.8
.9	118	236	354	472	591	709	827	945	1063	.9
31.0	119	237	356	474	593	711	830	948	1067	31.0
.1	119	238	357	476	595	713	832	951	1070	.1
.2	119	239	358	477	597	716	835	954	1074	.2
.3	120	239	359	479	599	718	838	957	1077	.3
.4	120	240	360	480	600	720	840	960	1080	.4
.5	120	241	361	482	602	722	843	963	1084	.5
.6	121	242	362	483	604	725	846	966	1087	.6
.7	121	242	364	485	606	727	848	970	1091	.7
.8	122	243	365	486	608	730	851	973	1094	.8
.9	122	244	366	488	610	732	854	976	1098	.9
32.0	123	245	367	489	612	734	856	978	1101	32.0
.1	123	245	368	491	614	736	859	982	1104	.1
.2	123	246	369	492	616	739	862	985	1108	.2
.3	124	247	371	494	618	741	865	988	1111	.3
.4	124	248	371	495	619	743	867	990	1114	.4
.5	124	248	373	497	621	745	869	994	1118	.5
.6	125	249	374	498	623	748	872	997	1121	.6
.7	125	250	375	500	625	750	875	1000	1125	.7
.8	125	251	376	502	627	752	878	1003	1129	.8
.9	126	252	377	503	629	755	881	1006	1132	.9
33.0	126	252	379	505	631	757	883	1010	1136	33.0
.1	127	253	380	506	633	760	886	1013	1139	.1
.2	127	254	381	508	635	762	889	1016	1143	.2
.3	127	255	382	509	637	764	891	1018	1146	.3
.4	128	255	383	511	639	766	894	1022	1149	.4
.5	128	256	384	512	641	769	897	1025	1153	.5
.6	129	257	386	514	643	771	900	1028	1157	.6
.7	129	258	386	515	644	773	902	1030	1159	.7
.8	129	258	388	517	646	775	904	1034	1163	.8
.9	130	259	389	518	648	778	907	1037	1166	.9
34.0	130	260	390	520	650	780	910	1040	1170	34.0
.1	130	261	391	521	652	782	912	1042	1173	.1
.2	130	261	392	523	654	784	915	1046	1176	.2
.3	131	262	393	524	656	787	918	1049	1180	.3
.4	132	263	395	526	658	789	921	1052	1184	.4
.5	132	264	396	528	660	792	923	1055	1187	.5
.6	132	265	397	529	662	794	926	1058	1191	.6
.7	133	265	398	530	663	796	928	1061	1194	.7
.8	133	266	399	532	665	798	931	1064	1197	.8
.9	133	267	400	534	667	800	934	1067	1201	.9
35.0	134	268	401	535	669	803	937	1070	1204	35.0
.1	134	268	403	537	671	805	939	1074	1208	.1
.2	135	269	404	538	673	808	942	1077	1211	.2
.3	135	270	405	540	675	810	945	1080	1215	.3
.4	135	271	406	541	677	812	947	1082	1218	.4
.5	136	271	407	543	679	814	950	1086	1221	.5
.6	136	272	408	544	681	817	953	1089	1225	.6
.7	137	273	410	546	683	819	956	1092	1229	.7
.8	137	274	411	548	685	821	958	1095	1232	.8
.9	137	275	412	549	687	824	961	1098	1236	.9
36.0	138	275	413	550	688	826	963	1101	1238	36.0

Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer. [BIOT.]

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
−22.0	.02590	−16.0	.03286	−10.0	.04158	−4.0	.05245	2.0	.06598	8.0	.08277
.9	.02600	.9	.03299	.9	.04174	.9	.05266	.1	.06623	.1	.08308
.8	.02610	.8	.03312	.8	.04190	.8	.05286	.2	.06648	.2	.08340
.7	.02621	.7	.03325	.7	.04206	.7	.05306	.3	.06674	.3	.08371
.6	.02631	.6	.03338	.6	.04222	.6	.05326	.4	.06699	.4	.08402
.5	.02641	.5	.03351	.5	.04239	.5	.05346	.5	.06725	.5	.08434
.4	.02652	.4	.03365	.4	.04255	.4	.05367	.6	.06750	.6	.08466
.3	.02663	.3	.03378	.3	.04272	.3	.05388	.7	.06776	.7	.08498
.2	.02673	.2	.03391	.2	.04289	.2	.05408	.8	.06802	.8	.08529
.1	.02684	.1	.03404	.1	.04305	.1	.05429	.9	.06828	.9	.08561
21.0	.02695	15.0	.03418	9.0	.04322	3.0	.05450	3.0	.06853	9.0	.08594
.9	.02706	.9	.03431	.9	.04339	.9	.05471	.1	.06880	.1	.08626
.8	.02717	.8	.03445	.8	.04356	.8	.05492	.2	.06906	.2	.08658
.7	.02727	.7	.03458	.7	.04373	.7	.05513	.3	.06932	.3	.08691
.6	.02738	.6	.03472	.6	.04390	.6	.05535	.4	.06958	.4	.08723
.5	.02749	.5	.03486	.5	.04307	.5	.05556	.5	.06985	.5	.08756
.4	.02760	.4	.03500	.4	.04424	.4	.05577	.6	.07011	.6	.08789
.3	.02771	.3	.03513	.3	.04441	.3	.05599	.7	.07038	.7	.08822
.2	.02782	.2	.03527	.2	.04459	.2	.05620	.8	.07065	.8	.08855
.1	.02793	.1	.03541	.1	.04476	.1	.05641	.9	.07091	.9	.08888
20.0	.02804	14.0	.03555	8.0	.04493	2.0	.05663	4.0	.07118	10.0	.08921
.9	.02816	.9	.03569	.9	.04511	.9	.05685	.1	.07145	.1	.08955
.8	.02827	.8	.03583	.8	.04528	.8	.05707	.2	.07172	.2	.08988
.7	.02838	.7	.03597	.7	.04546	.7	.05729	.3	.07200	.3	.09022
.6	.02849	.6	.03611	.6	.04564	.6	.05751	.4	.07227	.4	.09056
.5	.02861	.5	.03625	.5	.04581	.5	.05773	.5	.07254	.5	.09090
.4	.02872	.4	.03640	.4	.04599	.4	.05795	.6	.07282	.6	.09124
.3	.02883	.3	.03654	.3	.04617	.3	.05818	.7	.07309	.7	.09158
.2	.02895	.2	.03668	.2	.04635	.2	.05840	.8	.07337	.8	.09192
.1	.02906	.1	.03683	.1	.04653	.1	.05862	.9	.07365	.9	.09226
19.0	.02918	13.0	.03697	7.0	.04671	1.0	.05885	5.0	.07393	11.0	.09261
.9	.02930	.9	.03712	.9	.04689	.9	.05907	.1	.07421	.1	.09296
.8	.02942	.8	.03726	.8	.04707	.8	.05930	.2	.07449	.2	.09330
.7	.02953	.7	.03741	.7	.04726	.7	.05952	.3	.07477	.3	.09365
.6	.02965	.6	.03756	.6	.04744	.6	.05975	.4	.07505	.4	.09400
.5	.02976	.5	.03770	.5	.04762	.5	.05998	.5	.07533	.5	.09435
.4	.02988	.4	.03785	.4	.04781	.4	.06021	.6	.07562	.6	.09470
.3	.03000	.3	.03800	.3	.04799	.3	.06044	.7	.07590	.7	.09506
.2	.03012	.2	.03815	.2	.04818	.2	.06067	.8	.07619	.8	.09541
.1	.03024	.1	.03830	.1	.04836	− .1	.06091	.9	.07648	.9	.09577
18.0	.03036	12.0	.03845	6.0	.04855	0.0	.06114	6.0	.07677	12.0	.09612
.9	.03048	.9	.03860	.9	.04874	+ .1	.06137	.1	.07706	.1	.09648
.8	.03060	.8	.03875	.8	.04893	.2	.06161	.2	.07735	.2	.09684
.7	.03072	.7	.03890	.7	.04912	.3	.06184	.3	.07764	.3	.09721
.6	.03084	.6	.03905	.6	.04931	.4	.06208	.4	.07794	.4	.09757
.5	.03097	.5	.03921	.5	.04950	.5	.06232	.5	.07823	.5	.09793
.4	.03109	.4	.03937	.4	.04969	.6	.06255	.6	.07853	.6	.09830
.3	.03121	.3	.03952	.3	.04988	.7	.06279	.7	.07882	.7	.09866
.2	.03134	.2	.03967	.2	.05008	.8	.06303	.8	.07912	.8	.09903
.1	.03146	.1	.03982	1	.05027	.9	.06327	.9	.07942	.9	.09940
17.0	.03159	11.0	.03998	5.0	.05046	1.0	.06352	7.0	.07972	13.0	.09977
.9	.03171	.9	.04013	.9	.05066	.1	.06376	.1	.08002	.1	.10014
.8	.03184	.8	.04028	.8	.05086	.2	.06400	.2	.08032	.2	.10051
.7	.03196	.7	.04044	.7	.05105	.3	.06425	.3	.08062	.3	.10089
.6	.03209	.6	.04061	.6	.05125	.4	.06449	.4	.08093	.4	.10126
.5	.03221	.5	.04077	.5	.05145	.5	.06474	.5	.08123	.5	.10164
.4	.03234	.4	.04093	.4	.05165	.6	.06498	.6	.08154	.6	.10202
.3	.03246	.3	.04108	.3	.05184	.7	.06523	.7	.08185	.7	.10240
.2	.03259	.2	.04124	.2	.05204	.8	.06548	.8	.08215	.8	.10277
.1	.03272	.1	.04141	.1	.05225	.9	.06573	.9	.08246	.9	.10316
16.0	.03286	10.0	.04158	4.0	.05245	2.0	.06598	8.0	.08277	14.0	.10354

Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer. [BIOT.]

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
14.0	.10354	20.0	.12915	26.0	.16062	32.0	.19918	38.0	.24628	44.0	.30362
.1	.10393	.1	.12962	.1	.16120	.1	.19989	.1	.24715	.1	.30467
.2	.10431	.2	.13010	.2	.16178	.2	.20061	.2	.24802	.2	.30573
.3	.10470	.3	.13057	.3	.16237	.3	.20132	.3	.24889	.3	.30679
.4	.10509	.4	.13105	.4	.16296	.4	.20204	.4	.24978	.4	.30785
.5	.10548	.5	.13153	.5	.16355	.5	.20276	.5	.25064	.5	.30892
.6	.10587	.6	.13201	.6	.16414	.6	.20348	.6	.25152	.6	.30999
.7	.10626	.7	.13249	.7	.16473	.7	.20421	.7	.25241	.7	.31107
.8	.10665	.8	.13298	.8	.16532	.8	.20494	.8	.25329	.8	.31214
.9	.10705	.9	.13347	.9	.16592	.9	.20567	.9	.25418	.9	.31322
15.0	.10745	21.0	.13395	27.0	.16652	33.0	.20640	39.0	.25508	45.0	.31431
.1	.10784	.1	.13444	.1	.16712	.1	.20713	.1	.25597	.1	.31540
.2	.10824	.2	.13494	.2	.16772	.2	.20787	.2	.25687	.2	.31649
.3	.10864	.3	.13543	.3	.16833	.3	.20861	.3	.25777	.3	.31758
.4	.10905	.4	.13592	.4	.16894	.4	.20935	.4	.25868	.4	.31869
.5	.10945	.5	.13642	.5	.16954	.5	.21010	.5	.25958	.5	.31978
.6	.10986	.6	.13692	.6	.17016	.6	.21084	.6	.26049	.6	.32089
.7	.11026	.7	.13742	.7	.17077	.7	.21159	.7	.26141	.7	.32200
.8	.11067	.8	.13792	.8	.17138	.8	.21234	.8	.26232	.8	.32311
.9	.11108	.9	.13843	.9	.17200	.9	.21310	.9	.26324	.9	.32423
16.0	.11149	22.0	.13893	28.0	.17262	34.0	.21386	40.0	.26416	46.0	.32534
.1	.11190	.1	.13944	.1	.17324	.1	.21462	.1	.26509	.1	.32647
.2	.11232	.2	.13995	.2	.17387	.2	.21538	.2	.26602	.2	.32760
.3	.11273	.3	.14046	.3	.17449	.3	.21614	.3	.26695	.3	.32873
.4	.11315	.4	.14097	.4	.17512	.4	.21691	.4	.26788	.4	.32986
.5	.11357	.5	.14148	.5	.17575	.5	.21768	.5	.26882	.5	.33100
.6	.11399	.6	.14200	.6	.17638	.6	.21845	.6	.26976	.6	.33214
.7	.11441	.7	.14252	.7	.17702	.7	.21923	.7	.27070	.7	.33328
.8	.11483	.8	.14304	.8	.17765	.8	.22000	.8	.27165	.8	.33443
.9	.11525	.9	.14356	.9	.17829	.9	.22078	.9	.27260	.9	.33559
17.0	.11568	23.0	.14408	29.0	.17893	35.0	.22157	41.0	.27355	47.0	.33674
.1	.11610	.1	.14460	.1	.17957	.1	.22235	.1	.27451	.1	.33790
.2	.11653	.2	.14513	.2	.18022	.2	.22314	.2	.27547	.2	.33906
.3	.11696	.3	.14566	.3	.18087	.3	.22393	.3	.27643	.3	.34023
.4	.11739	.4	.14619	.4	.18151	.4	.22472	.4	.27739	.4	.34140
.5	.11783	.5	.14672	.5	.18217	.5	.22552	.5	.27836	.5	.34258
.6	.11826	.6	.14725	.6	.18282	.6	.22632	.6	.27933	.6	.34376
.7	.11870	.7	.14779	.7	.18348	.7	.22712	.7	.28031	.7	.34494
.8	.11913	.8	.14833	.8	.18413	.8	.22792	.8	.28129	.8	.34612
.9	.11957	.9	.14887	.9	.18480	.9	.22873	.9	.28227	.9	.34731
18.0	.12001	24.0	.14941	30.0	.18546	36.0	.22953	42.0	.28325	48.0	.34851
.1	.12046	.1	.14995	.1	.18612	.1	.23035	.1	.28424	.1	.34971
.2	.12090	.2	.15050	.2	.18679	.2	.23116	.2	.28523	.2	.35091
.3	.12135	.3	.15105	.3	.18746	.3	.23198	.3	.28622	.3	.35211
.4	.12179	.4	.15160	.4	.18813	.4	.23280	.4	.28722	.4	.35332
.5	.12224	.5	.15215	.5	.18880	.5	.23362	.5	.28822	.5	.35453
.6	.12269	.6	.15269	.6	.18948	.6	.23444	.6	.28922	.6	.35575
.7	.12314	.7	.15324	.7	.19016	.7	.23527	.7	.29023	.7	.35697
.8	.12359	.8	.15380	.8	.19084	.8	.23610	.8	.29124	.8	.35820
.9	.12405	.9	.15436	.9	.19152	.9	.23694	.9	.29225	.9	.35943
19.0	.12450	25.0	.15492	31.0	.19221	37.0	.23777	43.0	.29327	49.0	.36066
.1	.12496	.1	.15548	.1	.19289	.1	.23861	.1	.29429	.1	.36190
.2	.12542	.2	.15604	.2	.19358	.2	.23945	.2	.29531	.2	.36313
.3	.12588	.3	.15661	.3	.19427	.3	.24029	.3	.29634	.3	.36438
.4	.12634	.4	.15718	.4	.19497	.4	.24114	.4	.29737	.4	.36563
.5	.12680	.5	.15775	.5	.19567	.5	.24199	.5	.29840	.5	.36688
.6	.12727	.6	.15832	.6	.19637	.6	.24284	.6	.29944	.6	.36814
.7	.12774	.7	.15889	.7	.19707	.7	.24370	.7	.30048	.7	.36940
.8	.12820	.8	.15947	.8	.19777	.8	.24456	.8	.30152	.8	.37066
.9	.12867	.9	.16004	.9	.19848	.9	.24542	.9	.30257	.9	.37193
20.0	.12915	26.0	.16062	32.0	.19918	38.0	.24628	44.0	.30362	50.0	.37320

Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer. [BIOT.]

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
50.0	.37320	56.0	.45736	62.0	.55881	68.0	.68072	74.0	.82671	80.0	1.00094
.1	.37447	.1	.45890	.1	.56067	.1	.68295	.1	.82937	.1	1.00411
.2	.37576	.2	.46045	.2	.56253	.2	.68518	.2	.83204	.2	1.00729
.3	.37704	.3	.46200	.3	.56440	.3	.68742	.3	.83472	.3	1.01048
.4	.37833	.4	.46355	.4	.56627	.4	.68966	.4	.83740	.4	1.01368
.5	.37962	.5	.46511	.5	.56815	.5	.69191	.5	.84009	.5	1.01688
.6	.38092	.6	.46668	.6	.57003	.6	.69417	.6	.84279	.6	1.02001
.7	.38222	.7	.46825	.7	.57192	.7	.69644	.7	.84550	.7	1.02333
.8	.38352	.8	.46982	.8	.57381	.8	.69871	.8	.84821	.8	1.02656
.9	.38483	.9	.47140	.9	.57572	.9	.70099	.9	.85094	.9	1.02980
51.0	.38614	57.0	.47299	63.0	.57762	69.0	.70328	75.0	.85367	81.0	1.03306
.1	.38746	.1	.47458	.1	.57954	.1	.70557	.1	.85640	.1	1.03632
.2	.38878	.2	.47617	.2	.58145	.2	.70787	.2	.85915	.2	1.03959
.3	.39011	.3	.47777	.3	.58338	.3	.71017	.3	.86190	.3	1.04287
.4	.39144	.4	.47937	.4	.58531	.4	.71249	.4	.86467	.4	1.04616
.5	.39277	.5	.48098	.5	.58724	.5	.71481	.5	.86744	.5	1.04946
.6	.39411	.6	.48260	.6	.58918	.6	.71713	.6	.87022	.6	1.05277
.7	.39545	.7	.48422	.7	.59113	.7	.71947	.7	.87301	.7	1.05609
.8	.39680	.8	.48584	.8	.59308	.8	.72181	.8	.87581	.8	1.05942
.9	.39815	.9	.48747	.9	.59504	.9	.72416	.9	.87861	.9	1.06276
52.0	.39951	58.0	.48911	64.0	.59701	70.0	.72651	76.0	.88143	82.0	1.06611
.1	.40087	.1	.49075	.1	.59898	.1	.72888	.1	.88425	.1	1.06946
.2	.40223	.2	.49239	.2	.60096	.2	.73125	.2	.88708	.2	1.07283
.3	.40360	.3	.49404	.3	.60295	.3	.73362	.3	.88992	.3	1.07621
.4	.40497	.4	.49570	.4	.60493	.4	.73601	.4	.89276	.4	1.07959
.5	.40635	.5	.49736	.5	.60693	.5	.73840	.5	.89562	.5	1.08299
.6	.40773	.6	.49902	.6	.60893	.6	.74079	.6	.89848	.6	1.08640
.7	.40911	.7	.50070	.7	.61093	.7	.74320	.7	.90135	.7	1.08981
.8	.41050	.8	.50237	.8	.61295	.8	.74561	.8	.90423	.8	1.09324
.9	.41190	.9	.50405	.9	.61497	.9	.74803	.9	.90712	.9	1.09668
53.0	.41330	59.0	.50574	65.0	.61700	71.0	.75046	77.0	.91002	83.0	1.10012
.1	.41470	.1	.50743	.1	.61903	.1	.75289	.1	.91292	.1	1.10357
.2	.41611	.2	.50912	.2	.62107	.2	.75533	.2	.91583	.2	1.10704
.3	.41752	.3	.51083	.3	.62311	.3	.75778	.3	.91875	.3	1.11052
.4	.41893	.4	.51253	.4	.62516	.4	.76024	.4	.92168	.4	1.11400
.5	.42035	.5	.51425	.5	.62722	.5	.76270	.5	.92462	.5	1.11750
.6	.42178	.6	.51596	.6	.62928	.6	.76517	.6	.92757	.6	1.12101
.7	.42321	.7	.51769	.7	.63135	.7	.76765	.7	.93053	.7	1.12452
.8	.42464	.8	.51942	.8	.63343	.8	.77013	.8	.93349	.8	1.12804
.9	.42608	.9	.52115	.9	.63551	.9	.77262	.9	.93647	.9	1.13158
54.0	.42753	60.0	.52289	66.0	.63760	72.0	.77512	78.0	.93945	84.0	1.13512
.1	.42898	.1	.52463	.1	.63970	.1	.77763	.1	.94244	.1	1.13868
.2	.43043	.2	.52638	.2	.64180	.2	.78015	.2	.94544	.2	1.14224
.3	.43188	.3	.52814	.3	.64390	.3	.78267	.3	.94845	.3	1.14582
.4	.43334	.4	.52990	.4	.64602	.4	.78520	.4	.95146	.4	1.14941
.5	.43481	.5	.53166	.5	.64814	.5	.78774	.5	.95449	.5	1.15300
.6	.43628	.6	.53343	.6	.65026	.6	.79028	.6	.95752	.6	1.15661
.7	.43775	.7	.53521	.7	.65240	.7	.79283	.7	.96057	.7	1.16023
.8	.43923	.8	.53699	.8	.65454	.8	.79539	.8	.96362	.8	1.16385
.9	.44072	.9	.53878	.9	.65668	.9	.79796	.9	.96668	.9	1.16749
55.0	.44221	61.0	.54058	67.0	.65884	73.0	.80054	79.0	.96975	85.0	1.17114
.1	.44370	.1	.54238	.1	.66099	.1	.80312	.1	.97283	.1	1.17480
.2	.44520	.2	.54418	.2	.66316	.2	.80571	.2	.97592	.2	1.17846
.3	.44671	.3	.54599	.3	.66534	.3	.80831	.3	.97902	.3	1.18214
.4	.44821	.4	.54781	.4	.66751	.4	.81091	.4	.98212	.4	1.18583
.5	.44972	.5	.54963	.5	.66970	.5	.81353	.5	.98523	.5	1.18953
.6	.45124	.6	.55145	.6	.67189	.6	.81615	.6	.98836	.6	1.19324
.7	.45276	.7	.55328	.7	.67409	.7	.81878	.7	.99149	.7	1.19696
.8	.45429	.8	.55512	.8	.67629	.8	.82141	.8	.99463	.8	1.20070
.9	.45582	.9	.55697	.9	.67850	.9	.82406	.9	.99778	.9	1.20444
56.0	.45736	62.0	.55881	68.0	.68072	74.0	.82671	80.0	1.00094	86.0	1.20819

[BIOT.] Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer.

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
86.0	1.20819	92.0	1.45385	98.0	1.74404	104.0	2.08563	110.0	2.48630	116.0	2.95462
.1	1.21196	.1	1.45831	.1	1.74929	.1	2.09180	.1	2.49353	.1	2.96306
.2	1.21573	.2	1.46277	.2	1.75456	.2	2.09799	.2	2.50078	.2	2.97151
.3	1.21952	.3	1.46725	.3	1.75984	.3	2.10419	.3	2.50805	.3	2.97998
.4	1.22331	.4	1.47174	.4	1.76513	.4	2.11041	.4	2.51533	.4	2.98848
.5	1.22712	.5	1.47624	.5	1.77044	.5	2.11665	.5	2.52263	.5	2.99699
.6	1.23093	.6	1.48076	.6	1.77577	.6	2.12291	.6	2.52995	.6	3.00553
.7	1.23476	.7	1.48529	.7	1.78111	.7	2.12918	.7	2.53729	.7	3.01409
.8	1.23860	.8	1.48983	.8	1.78646	.8	2.13546	.8	2.54465	.8	3.02267
.9	1.24245	.9	1.49438	.9	1.79182	.9	2.14177	.9	2.55202	.9	3.03128
87.0	1.24631	93.0	1.49895	99.0	1.79721	105.0	2.14809	111.0	2.55942	117.0	3.03990
.1	1.25018	.1	1.50353	.1	1.80260	.1	2.15442	.1	2.56684	.1	3.04855
.2	1.25407	.2	1.50812	.2	1.80801	.2	2.16078	.2	2.57427	.2	3.05722
.3	1.25796	.3	1.51272	.3	1.81344	.3	2.16715	.3	2.58173	.3	3.06591
.4	1.26186	.4	1.51734	.4	1.81888	.4	2.17354	.4	2.58920	.4	3.07463
.5	1.26578	.5	1.52197	.5	1.82433	.5	2.17994	.5	2.59669	.5	3.08336
.6	1.26971	.6	1.52661	.6	1.82980	.6	2.18636	.6	2.60421	.6	3.09212
.7	1.27364	.7	1.53127	.7	1.83529	.7	2.19280	.7	2.61174	.7	3.10090
.8	1.27759	.8	1.53593	.8	1.84079	.8	2.19926	.8	2.61929	.8	3.10970
.9	1.28155	.9	1.54061	.9	1.84630	.9	2.20573	.9	2.62686	.9	3.11852
88.0	1.28552	94.0	1.54531	100.0	1.85182	106.0	2.21222	112.0	2.63445	118.0	3.12737
.1	1.28950	.1	1.55002	.1	1.85738	.1	2.21873	.1	2.64206	.1	3.13624
.2	1.29350	.2	1.55474	.2	1.86294	.2	2.22525	.2	2.64969	.2	3.14513
.3	1.29751	.3	1.55947	.3	1.86851	.3	2.23179	.3	2.65734	.3	3.15404
.4	1.30152	.4	1.56422	.4	1.87410	.4	2.23835	.4	2.66501	.4	3.16297
.5	1.30555	.5	1.56898	.5	1.87970	.5	2.24493	.5	2.67270	.5	3.17193
.6	1.30959	.6	1.57375	.6	1.88532	.6	2.25152	.6	2.68041	.6	3.18091
.7	1.31364	.7	1.57853	.7	1.89095	.7	2.25813	.7	2.68814	.7	3.18992
.8	1.31770	.8	1.58333	.8	1.89660	.8	2.26476	.8	2.69589	.8	3.19894
.9	1.32177	.9	1.58814	.9	1.90227	.9	2.27141	.9	2.70365	.9	3.20799
89.0	1.32585	95.0	1.59297	101.0	1.90795	107.0	2.27807	113.0	2.71144	119.0	3.21706
.1	1.32995	.1	1.59781	.1	1.91364	.1	2.28475	.1	2.71925	.1	3.22616
.2	1.33406	.2	1.60266	.2	1.91935	.2	2.29145	.2	2.72708	.2	3.23527
.3	1.33818	.3	1.60752	.3	1.92508	.3	2.29817	.3	2.73493	.3	3.24441
.4	1.34231	.4	1.61240	.4	1.93082	.4	2.30490	.4	2.74280	.4	3.25358
.5	1.34645	.5	1.61729	.5	1.93658	.5	2.31165	.5	2.75069	.5	3.26276
.6	1.35060	.6	1.62220	.6	1.94235	.6	2.31842	.6	2.75860	.6	3.27197
.7	1.35477	.7	1.62712	.7	1.94814	.7	2.32521	.7	2.76653	.7	3.28120
.8	1.35895	.8	1.63205	.8	1.95394	.8	2.33201	.8	2.77448	.8	3.29046
.9	1.36312	.9	1.63700	.9	1.95976	.9	2.33883	.9	2.78245	.9	3.29974
90.0	1.36733	96.0	1.64195	102.0	1.96560	108.0	2.34567	114.0	2.79044	120.0	3.30904
.1	1.37155	.1	1.64693	.1	1.97145	.1	2.35253	.1	2.79845	.1	3.31836
.2	1.37577	.2	1.65191	.2	1.97732	.2	2.35941	.2	2.80648	.2	3.32771
.3	1.38001	.3	1.65691	.3	1.98320	.3	2.36630	.3	2.81453	.3	3.33708
.4	1.38425	.4	1.66193	.4	1.98909	.4	2.37322	.4	2.82261	.4	3.34648
.5	1.38851	.5	1.66696	.5	1.99501	.5	2.38015	.5	2.83070	.5	3.35590
.6	1.39278	.6	1.67200	.6	2.00094	.6	2.38710	.6	2.83882	.6	3.36534
.7	1.39707	.7	1.67705	.7	2.00688	.7	2.39406	.7	2.84695	.7	3.37480
.8	1.40136	.8	1.68212	.8	2.01284	.8	2.40105	.8	2.85511	.8	3.38429
.9	1.40567	.9	1.68721	.9	2.01883	.9	2.40805	.9	2.86329	.9	3.39381
91.0	1.40999	97.0	1.69230	103.0	2.02482	109.0	2.41507	115.0	2.87149	121.0	3.40334
.1	1.41432	.1	1.69741	.1	2.03083	.1	2.42211	.1	2.87970	.1	3.41290
.2	1.41867	.2	1.70254	.2	2.03685	.2	2.42917	.2	2.88794	.2	3.42249
.3	1.42302	.3	1.70768	.3	2.04289	.3	2.43625	.3	2.89621	.3	3.43210
.4	1.42739	.4	1.71283	.4	2.04895	.4	2.44335	.4	2.90449	.4	3.44173
.5	1.43177	.5	1.71800	.5	2.05502	.5	2.45046	.5	2.91279	.5	3.45139
.6	1.43616	.6	1.72318	.6	2.06111	.6	2.45759	.6	2.92111	.6	3.46107
.7	1.44057	.7	1.72837	.7	2.06722	.7	2.46474	.7	2.92946	.7	3.47077
.8	1.44498	.8	1.73358	.8	2.07334	.8	2.47192	.8	2.93783	.8	3.48050
.9	1.44941	.9	1.73880	.9	2.07948	.9	2.47909	.9	2.94622	.9	3.49025
92.0	1.45385	98.0	1.74404	104.0	2.08563	110.0	2.48630	116.0	2.95462	122.0	3.50003

Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer. [BIOT.]

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
122.0	3.50003	128.0	4.13290	134.0	4.86458	140.0	5.70735	146.0	6.67446	152.0	7.78004
.1	3.50983	.1	4.14425	.1	4.87768	.1	5.72242	.1	6.69171	.1	7.79972
.2	3.51965	.2	4.15563	.2	4.89081	.2	5.73751	.2	6.70900	.2	7.81945
.3	3.52950	.3	4.16704	.3	4.90397	.3	5.75264	.3	6.72633	.3	7.83922
.4	3.53938	.4	4.17847	.4	4.91716	.4	5.76781	.4	6.74369	.4	7.85903
.5	3.54928	.5	4.18994	.5	4.93039	.5	5.78301	.5	6.76110	.5	7.87889
.6	3.55920	.6	4.20142	.6	4.94364	.6	5.79824	.6	6.77854	.6	7.89878
.7	3.56915	.7	4.21294	.7	4.95693	.7	5.81351	.7	6.79603	.7	7.91872
.8	3.57912	.8	4.22449	.8	4.97023	.8	5.82882	.8	6.81355	.8	7.93871
.9	3.58911	.9	4.23606	.9	4.98360	.9	5.84416	.9	6.83111	.9	7.95873
123.0	3.59913	129.0	4.24766	135.0	4.99698	141.0	5.85953	147.0	6.84872	153.0	7.97880
.1	3.60918	.1	4.25929	.1	5.01039	.1	5.87494	.1	6.86636	.1	7.99892
.2	3.61926	.2	4.27095	.2	5.02383	.2	5.89038	.2	6.88403	.2	8.01907
.3	3.62935	.3	4.28264	.3	5.03731	.3	5.90587	.3	6.90175	.3	8.03928
.4	3.63947	.4	4.29435	.4	5.05082	.4	5.92138	.4	6.91950	.4	8.05952
.5	3.64962	.5	4.30609	.5	5.06435	.5	5.93693	.5	6.93730	.5	8.07981
.6	3.65979	.6	4.31786	.6	5.07792	.6	5.95252	.6	6.95514	.6	8.10014
.7	3.66999	.7	4.32966	.7	5.09152	.7	5.96814	.7	6.97301	.7	8.12052
.8	3.68021	.8	4.34149	.8	5.10516	.8	5.98380	.8	6.99093	.8	8.14093
.9	3.69045	.9	4.35334	.9	5.11882	.9	5.99950	.9	7.00888	.9	8.16140
124.0	3.70072	130.0	4.36522	136.0	5.13252	142.0	6.01522	148.0	7.02688	154.0	8.18190
.1	3.71102	.1	4.37713	.1	5.14625	.1	6.03099	.1	7.04491	.1	8.20245
.2	3.72134	.2	4.38908	.2	5.16001	.2	6.04679	.2	7.06298	.2	8.22305
.3	3.73169	.3	4.40105	.3	5.17381	.3	6.06263	.3	7.08110	.3	8.24369
.4	3.74206	.4	4.41305	.4	5.18764	.4	6.07850	.4	7.09925	.4	8.26438
.5	3.75247	.5	4.42507	.5	5.20149	.5	6.09441	.5	7.11745	.5	8.28510
.6	3.76289	.6	4.43713	.6	5.21538	.6	6.11036	.6	7.13568	.6	8.30588
.7	3.77334	.7	4.44921	.7	5.22931	.7	6.12634	.7	7.15396	.7	8.32669
.8	3.78382	.8	4.46133	.8	5.24326	.8	6.14236	.8	7.17227	.8	8.34757
.9	3.79431	.9	4.47347	.9	5.25725	.9	6.15841	.9	7.19063	.9	8.36848
125.0	3.80484	131.0	4.48564	137.0	5.27127	143.0	6.17450	149.0	7.20902	155.0	8.38944
.1	3.81539	.1	4.49784	.1	5.28532	.1	6.19063	.1	7.22746	.1	8.41044
.2	3.82597	.2	4.51007	.2	5.29941	.2	6.20679	.2	7.24593	.2	8.43150
.3	3.83658	.3	4.52233	.3	5.31353	.3	6.22299	.3	7.26445	.3	8.45256
.4	3.84721	.4	4.53462	.4	5.32768	.4	6.23923	.4	7.28301	.4	8.47366
.5	3.85787	.5	4.54694	.5	5.34187	.5	6.25550	.5	7.30161	.5	8.49484
.6	3.86855	.6	4.55928	.6	5.35608	.6	6.27181	.6	7.32025	.6	8.51605
.7	3.87926	.7	4.57166	.7	5.37033	.7	6.28816	.7	7.33893	.7	8.53731
.8	3.88999	.8	4.58407	.8	5.38462	.8	6.30454	.8	7.35765	.8	8.55863
.9	3.90076	.9	4.59650	.9	5.39893	.9	6.32096	.9	7.37641	.9	8.58000
126.0	3.91154	132.0	4.60896	138.0	5.41328	144.0	6.33742	150.0	7.39521	156.0	8.60139
.1	3.92236	.1	4.62146	.1	5.42767	.1	6.35391	.1	7.41406	.1	8.62283
.2	3.93320	.2	4.63399	.2	5.44208	.2	6.37045	.2	7.43294	.2	8.64433
.3	3.94406	.3	4.64654	.3	5.45653	.3	6.38701	.3	7.45188	.3	8.66587
.4	3.95496	.4	4.65912	.4	5.47102	.4	6.40362	.4	7.47085	.4	8.68745
.5	3.96588	.5	4.67174	.5	5.48553	.5	6.42027	.5	7.48986	.5	8.70908
.6	3.97682	.6	4.68438	.6	5.50008	.6	6.43695	.6	7.50891	.6	8.73077
.7	3.98780	.7	4.69706	.7	5.51467	.7	6.45366	.7	7.52800	.7	8.75248
.8	3.99880	.8	4.70976	.8	5.52928	.8	6.47042	.8	7.54714	.8	8.77425
.9	4.00982	.9	4.72249	.9	5.54394	.9	6.48722	.9	7.56631	.9	8.79606
127.0	4.02087	133.0	4.73526	139.0	5.55862	145.0	6.50406	151.0	7.58553	157.0	8.81792
.1	4.03196	.1	4.74805	.1	5.57334	.1	6.52093	.1	7.60480	.1	8.83983
.2	4.04306	.2	4.76088	.2	5.58809	.2	6.53785	.2	7.62410	.2	8.86180
.3	4.05420	.3	4.77373	.3	5.60288	.3	6.55480	.3	7.64344	.3	8.88378
.4	4.06536	.4	4.78662	.4	5.61770	.4	6.57179	.4	7.66283	.4	8.90583
.5	4.07655	.5	4.79954	.5	5.63256	.5	6.58881	.5	7.68226	.5	8.92793
.6	4.08776	.6	4.81248	.6	5.64745	.6	6.60584	.6	7.70173	.6	8.95007
.7	4.09901	.7	4.82546	.7	5.66237	.7	6.62293	.7	7.72124	.7	8.97225
.8	4.11028	.8	4.83847	.8	5.67733	.8	6.64007	.8	7.74080	.8	8.99447
.9	4.12157	.9	4.85151	.9	5.69232	.9	6.65725	.9	7.76040	.9	9.01676
128.0	4.13290	134.0	4.86458	140.0	5.70735	146.0	6.67446	152.0	7.78004	158.0	9.03906

[BIOT.] Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer.

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
158.0	9.03906	164.0	10.46732	170.0	12.08118	176.0	13.89752	182.0	15.93352	188.0	18.20646
.1	9.06143	.1	10.49265	.1	12.10975	.1	13.92960	.1	15.96941	.1	18.24645
.2	9.08385	.2	10.51804	.2	12.13837	.2	13.96175	.2	16.00537	.2	18.28651
.3	9.10632	.3	10.54347	.3	12.16705	.3	13.99396	.3	16.04140	.3	18.32664
.4	9.12884	.4	10.56895	.4	12.19578	.4	14.02623	.4	16.07749	.4	18.36684
.5	9.15140	.5	10.59449	.5	12.22457	.5	14.05856	.5	16.11365	.5	18.40711
.6	9.17401	.6	10.62008	.6	12.25342	.6	14.09094	.6	16.14987	.6	18.44745
.7	9.19666	.7	10.64572	.7	12.28232	.7	14.12339	.7	16.18616	.7	18.44786
.8	9.21937	.8	10.67141	.8	12.31128	.8	14.15590	.8	16.22251	.8	18.52834
.9	9.24212	.9	10.69715	.9	12.34030	.9	14.18848	.9	16.25893	.9	18.56889
159.0	9.26492	165.0	10.72295	171.0	12.36937	177.0	14.22113	183.0	16.29542	189.0	18.60952
.1	9.28776	.1	10.74880	.1	12.39850	.1	14.25384	.1	16.33198	.1	18.65022
.2	9.31065	.2	10.77471	.2	12.42769	.2	14.28660	.2	16.36860	.2	18.69099
.3	9.33361	.3	10.80066	.3	12.45694	.3	14.31942	.3	16.40529	.3	18.73183
.4	9.35660	.4	10.82667	.4	12.48625	.4	14.35230	.4	16.44205	.4	18.77275
.5	9.37963	.5	10.85273	.5	12.51561	.5	14.38525	.5	16.47887	.5	18.81373
.6	9.40272	.6	10.87884	.6	12.54503	.6	14.41826	.6	16.51576	.6	18.85478
.7	9.42586	.7	10.90501	.7	12.57451	.7	14.45133	.7	16.55271	.7	18.89591
.8	9.44904	.8	10.93123	.8	12.60404	.8	14.48447	.8	16.58973	.8	18.93711
.9	9.47227	.9	10.95750	.9	12.63363	.9	14.51767	.9	16.62682	.9	18.97838
160.0	9.49555	166.0	10.98383	172.0	12.66328	178.0	14.55093	184.0	16.66398	190.0	19.01973
.1	9.51888	.1	11.01020	.1	12.69299	.1	14.58425	.1	16.70121	.1	19.06115
.2	9.54225	.2	11.03663	.2	12.72276	.2	14.61763	.2	16.73851	.2	19.10263
.3	9.56568	.3	11.06312	.3	12.75258	.3	14.65108	.3	16.77587	.3	19.14418
.4	9.58916	.4	11.08965	.4	12.78246	.4	14.68459	.4	16.81330	.4	19.18581
.5	9.61268	.5	11.11624	.5	12.81240	.5	14.71816	.5	16.85080	.5	19.22752
.6	9.63625	.6	11.14289	.6	12.84240	.6	14.75180	.6	16.88837	.6	19.26930
.7	9.65987	.7	11.16959	.7	12.87246	.7	14.78550	.7	16.92601	.7	19.31115
.8	9.68354	.8	11.19634	.8	12.90257	.8	14.81927	.8	16.96373	.8	19.35307
.9	9.70726	.9	11.22314	.9	12.93274	.9	14.85310	.9	17.00150	.9	19.39506
161.0	9.73102	167.0	11.25000	173.0	12.96297	179.0	14.88700	185.0	17.03933	191.0	19.43713
.1	9.75484	.1	11.27691	.1	12.99326	.1	14.92096	.1	17.07723	.1	19.47927
.2	9.77871	.2	11.30388	.2	13.02361	.2	14.95498	.2	17.11519	.2	19.52149
.3	9.80263	.3	11.33090	.3	13.05400	.3	14.98906	.3	17.15323	.3	19.56378
.4	9.82659	.4	11.35798	.4	13.08447	.4	15.02319	.4	17.19133	.4	19.60614
.5	9.85061	.5	11.38511	.5	13.11499	.5	15.05739	.5	17.22951	.5	19.64857
.6	9.87468	.6	11.41229	.6	13.14558	.6	15.09165	.6	17.26776	.6	19.69108
.7	9.89879	.7	11.43953	.7	13.17623	.7	15.12599	.7	17.30607	.7	19.73366
.8	9.92296	.8	11.46682	.8	13.20694	.8	15.16039	.8	17.34445	.8	19.77631
.9	9.94717	.9	11.49417	.9	13.23770	.9	15.19485	.9	17.38290	.9	19.81904
162.0	9.97143	168.0	11.52156	174.0	13.26852	180.0	15.22938	186.0	17.42142	192.0	19.86184
.1	9.99575	.1	11.54902	.1	13.29940	.1	15.26397	.1	17.46001	.1	19.90471
.2	10.02011	.2	11.57653	.2	13.33033	.2	15.29862	.2	17.49867	.2	19.94766
.3	10.04453	.3	11.60410	.3	13.36133	.3	15.33334	.3	17.53740	.3	19.99068
.4	10.06899	.4	11.63172	.4	13.39239	.4	15.36813	.4	17.57621	.4	20.03378
.5	10.09350	.5	11.65940	.5	13.42351	.5	15.40298	.5	17.61508	.5	20 07695
.6	10.11807	.6	11.68713	.6	13.45468	.6	15.43790	.6	17.65401	.6	20.12019
.7	10.14269	.7	11.71491	.7	13.48592	.7	15.47288	.7	17.69301	.7	20.16351
.8	10.16735	.8	11.74275	.8	13.51722	.8	15.50792	.8	17.73209	.8	20.20690.
.9	10.19207	.9	11.77065	.9	13.54858	.9	15.54303	.9	17.77124	.9	20.25037
163.0	10.21684	169.0	11.79860	175.0	13.58000	181.0	15.57829	187.0	17.81046	193.0	20.29390
.1	10.24165	.1	11.82661	.1	13.61148	.1	15.61344	.1	17.84975	.1	20.33751
.2	10.26652	.2	11.85467	.2	13.64303	.2	15.64874	.2	17.88910	.2	20.38120
.3	10.29144	.3	11.88279	.3	13.67463	.3	15.68411	.3	17.92852	.3	20.42497
.4	0.31642	.4	11.91096	.4	13.70628	.4	15.71955	.4	17.96802	.4	20.46881
.5	10.34144	.5	11.93919	.5	13.73800	.5	15.75505	.5	18.00759	.5	20.51272
.6	10.36651	.6	11.96747	.6	13.76978	.6	15.79061	.6	18.04722	.6	20.55671
.7	10.39164	.7	11.99581	.7	3.80162	.7	15.82624	.7	18.08693	.7	20.60077
.8	10.41681	.8	12.02421	.8	13.83353	.8	15.86193	.8	18.12670	.8	20.64491
.9	10.44204	.9	12.05267	.9	13.86550	.9	15.89769	.9	18.16655	.9	20.68913
164.0	10.46732	170.0	12.08118	176.0	13.89752	182.0	15.93352	188.0	18.20646	194.0	20.73342

Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer. [BIOT.]

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°	
194.0	20.73342	200.0	23.53100	206.0	26.61499
.1	20.77778	.1	23.58001	.1	26.66890
.2	20.82222	.2	23.62910	.2	26.72289
.3	20.86674	.3	23.67827	.3	26.77697
.4	20.91133	.4	23.72752	.4	26.83113
.5	20.95599	.5	23.77684	.5	26.88538
.6	21.00073	.6	23.82625	.6	26.93971
.7	21.04554	.7	23.87573	.7	26.99412
.8	21.09043	.8	23.92530	.8	27.04862
.9	21.13540	.9	23.97495	.9	27.10321
195.0	21.18045	201.0	24.02469	207.0	27.15788
.1	21.22557	.1	24.07450	.1	27.21263
.2	21.27076	.2	24.12440	.2	27.26747
.3	21.31603	.3	24.17437	.3	27.32239
.4	21.36139	.4	24.22442	.4	27.37740
.5	21.40682	.5	24.27455	.5	27.43249
.6	21.45231	.6	24.32476	.6	27.48766
.7	21.49788	.7	24.37504	.7	27.54292
.8	21.54353	.8	24.42541	.8	27.59826
.9	21.58926	.9	24.47586	.9	27.65369
196.0	21.63507	202.0	24.52640	208.0	27.70920
.1	21.68095	.1	24.57702	.1	27.76480
.2	21.72691	.2	24.62773	.2	27.82049
.3	21.77295	.3	24.67851	.3	27.87626
.4	21.81907	.4	24.72937	.4	27.93211
.5	21.86527	.5	24.78031	.5	27.98804
.6	21.91156	.6	24.83133	.6	28.04406
.7	21.95791	.7	24.88244	.7	28.10017
.8	22.00432	.8	24.93363	.8	28.15637
.9	22.05081	.9	24.98490	.9	28.21265
197.0	22.09737	203.0	25.03625	209.0	28.26902
.1	22.14402	.1	25.08768	.1	28.32547
.2	22.19075	.2	25.13919	.2	28.38200
.3	22.23756	.3	25.19078	.3	28.43862
.4	22.28446	.4	25.24245	.4	28.49533
.5	22.33143	.5	25.29420	.5	28.55212
.6	22.37846	.6	25.34605	.6	28.60900
.7	22.42557	.7	25.39797	.7	28.66597
.8	22.47277	.8	25.44998	.8	28.72303
.9	22.52005	.9	25.50207	.9	28.78016
198.0	22.56741	204.0	25.55424	210.0	28.83737
.1	22.61484	.1	25.60649	.1	28.89468
.2	22.66234	.2	25.65883	.2	28.95208
.3	22.70993	.3	25.71125	.3	29.00956
.4	22.75760	.4	25.76375	.4	29.06712
.5	22.80534	.5	25.81633	.5	29.12478
.6	22.85317	.6	25.86900	.6	29.18253
.7	22.90107	.7	25.92174	.7	29.24038
.8	22.94906	.8	25.97457	.8	29.29821
.9	22.99712	.9	26.02748	.9	29.35623
199.0	23.04526	205.0	26.08047	211.0	29.41434
.1	23.09348	.1	26.13354	.1	29.47252
.2	23.14177	.2	26.18670	.2	29.53078
.3	23.19015	.3	26.23995	.3	29.58913
.4	23.23860	.4	26.29328	.4	29.64754
.5	23.28713	.5	26.34669	.5	29.70609
.6	23.33575	.6	26.40018	.6	29.76470
.7	23.38444	.7	26.45375	.7	29.82339
.8	23.43321	.8	26.50741	.8	29.88217
.9	23.48206	.9	26.56116	.9	29.94104
200.0	23.53100	206.0	26.61499	212.0	30.00000

[REGNAULT.] Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer.

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
		°		°		°		°		°	
−22.0	.01437	−16.0	.01896	−10.0	.02503	−4.0	.03311	2.0	.04390	8.0	.05821
.9	.01444	.9	.01905	.9	.02515	.9	.03327	.1	.04411	.1	.05848
.8	.01451	.8	.01914	.8	.02527	.8	.03343	.2	.04432	.2	.05876
.7	.01458	.7	.01923	.7	.02539	.7	.03359	.3	.04453	.3	.05904
.6	.01465	.6	.01932	.6	.02551	.6	.03375	.4	.04474	.4	.05932
.5	.01472	.5	.01941	.5	.02563	.5	.03391	.5	.04495	.5	.05960
.4	.01479	.4	.01950	.4	.02575	.4	.03407	.6	.04516	.6	.05988
.3	.01486	.3	.01959	.3	.02587	.3	.03423	.7	.04537	.7	.06016
.2	.01493	.2	.01968	.2	.02599	.2	.03439	.8	.04558	.8	.06044
.1	.01500	.1	.01977	.1	.02611	.1	.03455	.9	.04579	.9	.06073
21.0	.01507	15.0	.01986	9.0	.02623	3.0	.03471	3.0	.04600	9.0	.06102
.9	.01514	.9	.01995	.9	.02635	.9	.03487	.1	.04621	.1	.06131
.8	.01521	.8	.02004	.8	.02647	.8	.03504	.2	.04642	.2	.06160
.7	.01528	.7	.02013	.7	.02659	.7	.03521	.3	.04663	.3	.06189
.6	.01535	.6	.02022	.6	.02671	.6	.03538	.4	.04685	.4	.06218
.5	.01542	.5	.02031	.5	.02683	.5	.03555	.5	.04707	.5	.06248
.4	.01549	.4	.02040	.4	.02695	.4	.03572	.6	.04729	.6	.06278
.3	.01556	.3	.02049	.3	.02708	.3	.03589	.7	.04751	.7	.06308
.2	.01563	.2	.02058	.2	.02721	.2	.03606	.8	.04773	.8	.06338
.1	.01570	.1	.02067	.1	.02734	.1	.03623	.9	.04796	.9	.06368
20.0	.01577	14.0	.02077	8.0	.02747	2.0	.03640	4.0	.04819	10.0	.06398
.9	.01584	.9	.02087	.9	.02760	.9	.03657	.1	.04842	.1	.06428
.8	.01591	.8	.02097	.8	.02773	.8	.03674	.2	.04865	.2	.06458
.7	.01598	.7	.02107	.7	.02786	.7	.03691	.3	.04888	.3	.06489
.6	.01605	.6	.02117	.6	.02799	.6	.03708	.4	.04911	.4	.06520
.5	.01612	.5	.02127	.5	.02812	.5	.03725	.5	.04935	.5	.06551
.4	.01619	.4	.02137	.4	.02825	.4	.03742	.6	.04959	.6	.06582
.3	.01626	.3	.02147	.3	.02838	.3	.03759	.7	.04983	.7	.06613
.2	.01633	.2	.02157	.2	.02851	.2	.03777	.8	.05007	.8	.06644
.1	.01641	.1	.02167	.1	.02865	.1	.03795	.9	.05031	.9	.06676
19.0	.01649	13.0	.02177	7.0	.02879	1.0	.03813	5.0	.05055	11.0	.06708
.9	.01657	.9	.02187	.9	.02893	.9	.03831	.1	.05079	.1	.06740
.8	.01665	.8	.02197	.8	.02907	.8	.03849	.2	.05103	.2	.06772
.7	.01673	.7	.02207	.7	.02921	.7	.03867	.3	.05128	.3	.06804
.6	.01681	.6	.02217	.6	.02935	.6	.03885	.4	.05153	.4	.06836
.5	.01689	.5	.02227	.5	.02949	.5	.03903	.5	.05178	.5	.06868
.4	.01697	.4	.02238	.4	.02963	.4	.03921	.6	.05203	.6	.06901
.3	.01705	.3	.02249	.3	.02977	.3	.03940	.7	.05228	.7	.06934
.2	.01713	.2	.02260	.2	.02991	.2	.03959	.8	.05253	.8	.06967
.1	.01721	.1	.02271	.1	.03005	− .1	.03978	.9	.05278	.9	.07000
18.0	.01729	12.0	.02282	6.0	.03019	0.0	.03997	6.0	.05303	12.0	.07033
.9	.01737	.9	.02293	.9	.03033	+ .1	.04016	.1	.05328	.1	.07066
.8	.01745	.8	.02304	.8	.03047	.2	.04035	.2	.05353	.2	.07099
.7	.01753	.7	.02315	.7	.03061	.3	.04054	.3	.05378	.3	.07133
.6	.01761	.6	.02326	.6	.03075	.4	.04073	.4	.05403	.4	.07167
.5	.01769	.5	.02337	.5	.03089	.5	.04092	.5	.05428	.5	.07201
.4	.01777	.4	.02348	.4	.03103	.6	.04111	.6	.05453	.6	.07235
.3	.01785	.3	.02359	.3	.03117	.7	.04130	.7	.05478	.7	.07269
.2	.01793	.2	.02370	.2	.03131	.8	.04149	.8	.05504	.8	.07303
.1	.01801	.1	.02381	.1	.03146	.9	.04168	.9	.05530	.9	.07338
17.0	.01809	11.0	.02392	5.0	.03161	1.0	.04188	7.0	.05556	13.0	.07373
.9	.01817	.9	.02403	.9	.03176	.1	.04208	.1	.05582	.1	.07408
.8	.01825	.8	.02414	.8	.03191	.2	.04228	.2	.05608	.2	.07443
.7	.01833	.7	.02425	.7	.03206	.3	.04248	.3	.05634	.3	.07478
.6	.01842	.6	.02436	.6	.03221	.4	.04268	.4	.05660	.4	.07513
.5	.01851	.5	.02447	.5	.03236	.5	.04288	.5	.05686	.5	.07548
.4	.01860	.4	.02458	.4	.03251	.6	.04308	.6	.05713	.6	.07584
.3	.01869	.3	.02469	.3	.03266	.7	.04328	.7	.05740	.7	.07620
.2	.01878	.2	.02480	.2	.03281	.8	.04348	.8	.05767	.8	.07656
.1	.01887	.1	.02491	.1	.03296	.9	.04369	.9	.05794	.9	.07692
16.0	.01896	10.0	.02503	4.0	.03311	2.0	.04390	8.0	.05821	14.0	.07728

Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer. [REGNAULT.]

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
14.0	.07728	20.0	.10259	26.0	.13630	32.0	.18111	38.0	.22918	44.0	.28834
.1	.07765	.1	.10303	.1	.13694	.1	.18183	.1	.23007	.1	.28943
.2	.07802	.2	.10357	.2	.13759	.2	.18255	.2	.23096	.2	.29053
.3	.07839	.3	.10406	.3	.13824	.3	.18327	.3	.23185	.3	.29163
.4	.07876	.4	.10455	.4	.13889	.4	.18399	.4	.23275	.4	.29274
.5	.07914	.5	.10505	.5	.13954	.5	.18472	.5	.23365	.5	.29385
.6	.07952	.6	.10555	.6	.14020	.6	.18545	.6	.23455	.6	.29497
.7	.07990	.7	.10605	.7	.14086	.7	.18618	.7	.23546	.7	.20609
.8	.08028	.8	.10655	.8	.14153	.8	.18691	.8	.23637	.8	.29721
.9	.08066	.9	.10706	.9	.14220	.9	.18765	.9	.23728	.9	.29834
15.0	.08104	21.0	.10757	27.0	.14287	33.0	.18839	39.0	.23820	45.0	.29947
.1	.08142	.1	.10808	.1	.14355	.1	.18914	.1	.23912	.1	.30060
.2	.08180	.2	.10859	.2	.14423	.2	.18989	.2	.24005	.2	.30174
.3	.08219	.3	.10911	.3	.14492	.3	.19065	.3	.24098	.3	.30288
.4	.08258	.4	.10963	.4	.14561	.4	.19141	.4	.24191	.4	.30402
.5	.08297	.5	.11015	.5	.14630	.5	.19218	.5	.24284	.5	.30517
.6	.08336	.6	.11067	.6	.14700	.6	.19295	.6	.24378	.6	.30632
.7	.08375	.7	.11120	.7	.14770	.7	.19372	.7	.24472	.7	.30747
.8	.08414	.8	.11173	.8	.14840	.8	.19449	.8	.24566	.8	.30863
.9	.08454	.9	.11226	.9	.14911	.9	.19526	.9	.24660	.9	.30979
16.0	.08494	22.0	.11279	28.0	.14982	34.0	.19603	40.0	.24755	46.0	.31095
.1	.08534	.1	.11333	.1	.15053	.1	.19680	.1	.24850	.1	.31212
.2	.08574	.2	.11387	.2	.15125	.2	.19758	.2	.24946	.2	.31329
.3	.08615	.3	.11441	.3	.15197	.3	.19836	.3	.25042	.3	.31446
.4	.08656	.4	.11495	.4	.15270	.4	.19914	.4	.25138	.4	.31564
.5	.08697	.5	.11549	.5	.15343	.5	.19993	.5	.25235	.5	.31682
.6	.08738	.6	.11604	.6	.15416	.6	.20072	.6	.25332	.6	.31800
.7	.08779	.7	.11659	.7	.15490	.7	.20151	.7	.25429	.7	.31919
.8	.08821	.8	.11715	.8	.15564	.8	.20230	.8	.25527	.8	.32038
.9	.08863	.9	.11771	.9	.15638	.9	.20310	.9	.25626	.9	.32158
17.0	.08905	23.0	.11827	29.0	.15713	35.0	.20390	41.0	.25725	47.0	.32278
.1	.08947	.1	.11883	.1	.15788	.1	.20470	.1	.25824	.1	.32399
.2	.08990	.2	.11939	.2	.15863	.2	.20551	.2	.25923	.2	.32520
.3	.09033	.3	.11996	.3	.15939	.3	.20632	.3	.26023	.3	.32642
.4	.09076	.4	.12053	.4	.16015	.4	.20713	.4	.26123	.4	.32764
.5	.09119	.5	.12110	.5	.16091	.5	.20794	.5	.26223	.5	.32887
.6	.09162	.6	.12167	.6	.16167	.6	.20876	.6	.26323	.6	.33010
.7	.09205	.7	.12225	.7	.16243	.7	.20958	.7	.26424	.7	.33133
.8	.09249	.8	.12283	.8	.16320	.8	.21040	.8	.26525	.8	.33257
.9	.09293	.9	.12341	.9	.16397	.9	.21123	.9	.26626	.9	.33381
18.0	.09337	24.0	.12399	30.0	.16474	36.0	.21206	42.0	.26727	48.0	.33506
.1	.09381	.1	.12458	.1	.16552	.1	.21289	.1	.26829	.1	.33631
.2	.09425	.2	.12517	.2	.16630	.2	.21372	.2	.26931	.2	.33757
.3	.09470	.3	.12576	.3	.16709	.3	.21456	.3	.27033	.3	.33883
.4	.09515	.4	.12636	.4	.16788	.4	.21540	.4	.27136	.4	.34009
.5	.09560	.5	.12696	.5	.16867	.5	.21624	.5	.27239	.5	.34136
.6	.09605	.6	.12756	.6	.16947	.6	.21709	.6	.27343	.6	.34263
.7	.09650	.7	.12817	.7	.17027	.7	.21794	.7	.27447	.7	.34391
.8	.09696	.8	.12878	.8	.17108	.8	.21879	.8	.27551	.8	.34519
.9	.09742	.9	.12939	.9	.17189	.9	.21964	.9	.27656	.9	.34647
19 0	.09788	25.0	.13000	31.0	.17271	37.0	.22049	43.0	.27761	49.0	.34776
.1	.09834	.1	.13062	.1	.17353	.1	.22135	.1	.27866	.1	.34905
.2	.09880	.2	.13124	.2	.17436	.2	.22221	.2	.27972	.2	.35034
.3	.09926	.3	.13186	.3	.17519	.3	.22307	.3	.28078	.3	.35164
.4	.09973	.4	.13249	.4	.17603	.4	.22393	.4	.28185	.4	.35294
.5	.10020	.5	.13312	.5	.17687	.5	.22480	.5	.28292	.5	.35425
.6	.10067	.6	.13375	.6	.17771	.6	.22567	.6	.28400	.6	.35556
.7	.10115	.7	.13438	.7	.17855	.7	.22654	.7	.28508	.7	.35688
.8	.10163	.8	.13502	.8	.17940	.8	.22742	.8	.28616	.8	.35820
.9	.10211	.9	.13566	.9	.18025	.9	.22830	.9	.28725	.9	.35952
20.0	.10259	26.0	.13630	32.0	.18111	38.0	.22918	44.0	.28834	50.0	.36085

[REGNAULT.] Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer.

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
50.0	.36084	56.0	.44907	62.0	.55595	68.0	.68479	74.0	.83911	80.0	1.02321
.1	.36217	.1	.45069	.1	.55790	.1	.68705	.1	.84193	.1	1.02656
.2	.36350	.2	.45232	.2	.55986	.2	.68941	.2	.84476	.2	1.02992
.3	.36474	.3	.45395	.3	.56183	.3	.69177	.3	.84759	.3	1.03329
.4	.36618	.4	.45559	.4	.56380	.4	.69414	.4	.85043	.4	1.03668
.5	.36753	.5	.45723	.5	.56578	.5	.69652	.5	.85328	.5	1.04008
.6	.36888	.6	.45888	.6	.56777	.6	.69890	.6	.85613	.6	1.04350
.7	.37024	.7	.46053	.7	.56976	.7	.70129	.7	.85899	.7	1.04692
.8	.37160	.8	.46219	.8	.57176	.8	.70369	.8	.86186	.8	1.05035
.9	.37297	.9	.46385	.9	.57377	.9	.70610	.9	.86474	.9	1.05379
51.0	.37434	57.0	.46552	63.0	.57578	69.0	.70852	75.0	.86763	81.0	1.05724
.1	.37572	.1	.46719	.1	.57780	.1	.71095	.1	.87052	.1	1.06069
.2	.37710	.2	.46886	.2	.57983	.2	.71339	.2	.87342	.2	1.06415
.3	.37849	.3	.47054	.3	.58186	.3	.71584	.3	.87633	.3	1.06762
.4	.37988	.4	.47222	.4	.58390	.4	.71830	.4	.87925	.4	1.07110
.5	.38128	.5	.47391	.5	.58595	.5	.72076	.5	.88218	.5	1.07459
.6	.38268	.6	.47561	.6	.58800	.6	.72323	.6	.88512	.6	1.07808
.7	.38409	.7	.47731	.7	.59006	.7	.72571	.7	.88806	.7	1.08158
.8	.38550	.8	.47902	.8	.59212	.8	.72819	.8	.89101	.8	1.08509
.9	.38692	.9	.48073	.9	.59419	.9	.73068	.9	.89397	.9	1.08861
52.0	.38834	58.0	.48245	64.0	.59627	70.0	.73317	76.0	.89694	82.0	1.09214
.1	.38976	.1	.48417	.1	.59835	.1	.73567	.1	.89992	.1	1.09568
.2	.39118	.2	.48590	.2	.60044	.2	.73818	.2	.90291	.2	1.09923
.3	.39261	.3	.48764	.3	.60253	.3	.74069	.3	.90591	.3	1.10279
.4	.39404	.4	.48938	.4	.60463	.4	.74321	.4	.90892	.4	1.10636
.5	.39548	.5	.49113	.5	.60673	.5	.74574	.5	.91194	.5	1.10994
.6	.39692	.6	.49288	.6	.60884	.6	.74827	.6	.91497	.6	1.11353
.7	.39837	.7	.49464	.7	.61096	.7	.75081	.7	.91801	.7	1.11713
.8	.39982	.8	.49641	.8	.61308	.8	.75335	.8	.92106	.8	1.12075
.9	.40128	.9	.49818	.9	.61521	.9	.75590	.9	.92412	.9	1.12438
53.0	.40275	59.0	.49996	65.0	.61735	71.0	.75846	77.0	.92719	83.0	1.12802
.1	.40422	.1	.50174	.1	.61950	.1	.76103	.1	.93026	.1	1.13167
.2	.40570	.2	.50353	.2	.62165	.2	.76361	.2	.93334	.2	1.13533
.3	.40719	.3	.50532	.3	.62381	.3	.76620	.3	.93643	.3	1.13900
.4	.40868	.4	.50711	.4	.62598	.4	.76879	.4	.93953	.4	1.14268
.5	.41017	.5	.50891	.5	.62815	.5	.77139	.5	.94264	.5	1.14637
.6	.41167	.6	.51072	.6	.63033	.6	.77399	.6	.94575	.6	1.15008
.7	.41317	.7	.51253	.7	.63252	.7	.77660	.7	.94887	.7	1.15380
.8	.41468	.8	.51435	.8	.63472	.8	.77922	.8	.95200	.8	1.15753
.9	.41619	.9	.51618	.9	.63692	.9	.78185	.9	.95514	.9	1.16127
54.0	.41771	60.0	.51801	66.0	.63913	72.0	.78449	78.0	.95829	84.0	1.16502
.1	.41923	.1	.51985	.1	.64134	.1	.78713	.1	.96145	.1	1.16878
.2	.42076	.2	.52169	.2	.64356	.2	.78978	.2	.96462	.2	1.17255
.3	.42229	.3	.52354	.3	.64578	.3	.79244	.3	.96779	.3	1.17633
.4	.42383	.4	.52540	.4	.64801	.4	.79511	.4	.97097	.4	1.18012
.5	.42537	.5	.52726	.5	.65025	.5	.79779	.5	.97416	.5	1.18392
.6	.42692	.6	.52913	.6	.65250	.6	.80048	.6	.97736	.6	1.18773
.7	.42847	.7	.53101	.7	.65475	.7	.80318	.7	.98057	.7	1.19155
.8	.43003	.8	.53290	.8	.65701	.8	.80589	.8	.98379	.8	1.19538
.9	.43159	.9	.53480	.9	.65928	.9	.80861	.9	.98702	.9	1.19922
55.0	.43316	61.0	.53670	67.0	.66156	73.0	.81134	79.0	.99026	85.0	1.20307
.1	.43473	.1	.53860	.1	.66385	.1	.81408	.1	.99351	.1	1.20693
.2	.43630	.2	.54051	.2	.66614	.2	.81683	.2	.99677	.2	1.21080
.3	.43788	.3	.54242	.3	.66844	.3	.81959	.3	1.00004	.3	1.21468
.4	.43946	.4	.54434	.4	.67074	.4	.82236	.4	1.00332	.4	1.21857
.5	.44105	.5	.54626	.5	.67305	.5	.82513	.5	1.00661	.5	1.22247
.6	.44264	.6	.54819	.6	.67537	.6	.82791	.6	1.00991	.6	1.22638
.7	.44424	.7	.55012	.7	.67769	.7	.83070	.7	1.01322	.7	1.23030
.8	.44584	.8	.55206	.8	.68002	.8	.83350	.8	1.01654	.8	1.23423
.9	.44745	.9	.55400	.9	.68236	.9	.83630	.9	1.01987	.9	1.23817
56.0	.44907	62.0	.55595	68.0	.68470	74.0	.83911	80.0	1.02321	86.0	1.24212

Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer. [REGNAULT.]

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
86.0	1.24212	92.0	1.50073	98.0	1.80511	104.0	2.16166	110.0	2.57786	116.0	3.06155
.1	1.24608	.1	1.50541	.1	1.81060	.1	2.16810	.1	2.58534	.1	3.07023
.2	1.25005	.2	1.51010	.2	1.81611	.2	2.17455	.2	2.59284	.2	3.07893
.3	1.25403	.3	1.51480	.3	1.82163	.3	2.18102	.3	2.60036	.3	3.08765
.4	1.25802	.4	1.51951	.4	1.82716	.4	2.18750	.4	2.60790	.4	3.09640
.5	1.26202	.5	1.52424	.5	1.83271	.5	2.19400	.5	2.61546	.5	3.10517
.6	1.26604	.6	1.52898	.6	1.83827	.6	2.20052	.6	2.62304	.6	3.11397
.7	1.27007	.7	1.53373	.7	1.84385	.7	2.20706	.7	2.63064	.7	3.12279
.8	1.27411	.8	1.53850	.8	1.84944	.8	2.21361	.8	2.63826	.8	3.13163
.9	1.27817	.9	1.54328	.9	1.85505	.9	2.22018	.9	2.64590	.9	3.14049
87.0	1.28224	93.0	1.54808	99.0	1.86067	105.0	2.22676	111.0	2.65356	117.0	3.14937
.1	1.28632	.1	1.55289	.1	1.86631	.1	2.23336	.1	2.66124	.1	3.15827
.2	1.29041	.2	1.55771	.2	1.87196	.2	2.23997	.2	2.66894	.2	3.16719
.3	1.29452	.3	1.56254	.3	1.87763	.3	2.24660	.3	2.67666	.3	3.17613
.4	1.29864	.4	1.56739	.4	1.88332	.4	2.25324	.4	2.68439	.4	3.18509
.5	1.30277	.5	1.57225	.5	1.88902	.5	2.25990	.5	2.69214	.5	3.19407
.6	1.30691	.6	1.57712	.6	1.89474	.6	2.26658	.6	2.69991	.6	3.20307
.7	1.31106	.7	1.58200	.7	1.90047	.7	2.27327	.7	2.70770	.7	3.21209
.8	1.31522	.8	1.58690	.8	1.90622	.8	2.27998	.8	2.71551	.8	3.22114
.9	1.31939	.9	1.59181	.9	1.91199	.9	2.28670	.9	2.72334	.9	3.23021
88.0	1.32356	94.0	1.59673	100.0	1.91777	106.0	2.29344	112.0	2.73119	118.0	3.23930
.1	1.32774	.1	1.60167	.1	1.92357	.1	2.30020	.1	2.73906	.1	3.24841
.2	1.33193	.2	1.60662	.2	1.92939	.2	2.30698	.2	2.74695	.2	3.25754
.3	1.33613	.3	1.61158	.3	1.93522	.3	2.31377	.3	2.75486	.3	3.26669
.4	1.34035	.4	1.61656	.4	1.94107	.4	2.32058	.4	2.76279	.4	3.27586
.5	1.34458	.5	1.62155	.5	1.94693	.5	2.32741	.5	2.77073	.5	3.28505
.6	1.34883	.6	1.62656	.6	1.95280	.6	2.33426	.6	2.77869	.6	3.29426
.7	1.35310	.7	1.63158	.7	1.95869	.7	2.34113	.7	2.78667	.7	3.30350
.8	1.35738	.8	1.63662	.8	1.96459	.8	2.34802	.8	2.79467	.8	3.31276
.9	1.36167	.9	1.64167	.9	1.97051	.9	2.35492	.9	2.80269	.9	3.32205
89.0	1.36597	95.0	1.64674	101.0	1.97644	107.0	2.36184	113.0	2.81073	119.0	3.33136
.1	1.37029	.1	1.65182	.1	1.98239	.1	2.36878	.1	2.81879	.1	3.34069
.2	1.37462	.2	1.65691	.2	1.98835	.2	2.37574	.2	2.82687	.2	3.35004
.3	1.37897	.3	1.66202	.3	1.99433	.3	2.38272	.3	2.83497	.3	3.35941
.4	1.38333	.4	1.66714	.4	2.00032	.4	2.38972	.4	2.84309	.4	3.36881
.5	1.38771	.5	1.67227	.5	2.00633	.5	2.39674	.5	2.85123	.5	3.37823
.6	1.39210	.6	1.67742	.6	2.01235	.6	2.40378	.6	2.85939	.6	3.38768
.7	1.39650	.7	1.68258	.7	2.01839	.7	2.41083	.7	2.86757	.7	3.39716
.8	1.40091	.8	1.68775	.8	2.02444	.8	2.41790	.8	2.87577	.8	3.40666
.9	1.40533	.9	1.69294	.9	2.03051	.9	2.42499	.9	2.88399	.9	3.41619
90.0	1.40976	96.0	1.69814	102.0	2.03659	108.0	2.43209	114.0	2.89223	120.0	3.42574
.1	1.41420	.1	1.70335	.1	2.04269	.1	2.43921	.1	2.90049	.1	3.43532
.2	1.41865	.2	1.70857	.2	2.04881	.2	2.44635	.2	2.90877	.2	3.44492
.3	1.42311	.3	1.71381	.3	2.05494	.3	2.45351	.3	2.91708	.3	3.45454
.4	1.42758	.4	1.71906	.4	2.06109	.4	2.46069	.4	2.92541	.4	3.46418
.5	1.43206	.5	1.72433	.5	2.06726	.5	2.46788	.5	2.93376	.5	3.47385
.6	1.43656	.6	1.72961	.6	2.07344	.6	2.47509	.6	2.94213	.6	3.48354
.7	1.44107	.7	1.73491	.7	2.07963	.7	2.48231	.7	2.95053	.7	3.49325
.8	1.44559	.8	1.74023	.8	2.08584	.8	2.48955	.8	2.95895	.8	3.50298
.9	1.45012	.9	1.74556	.9	2.09206	.9	2.49681	.9	2.96739	.9	3.51273
91.0	1.45466	97.0	1.75090	103.0	2.09830	109.0	2.50409	115.0	2.97585	121.0	3.52250
.1	1.45921	.1	1.75626	.1	2.10456	.1	2.51139	.1	2.98433	.1	3.53229
.2	1.46377	.2	1.76163	.2	2.11083	.2	2.51870	.2	2.99283	.2	3.54210
.3	1.46835	.3	1.76702	.3	2.11712	.3	2.52603	.3	3.00135	.3	3.55194
.4	1.47294	.4	1.77242	.4	2.12343	.4	2.53338	.4	3.00989	.4	3.56180
.5	1.47754	.5	1.77783	.5	2.12976	.5	2.54075	.5	3.01845	.5	3.57168
.6	1.48215	.6	1.78326	.6	2.13610	.6	2.54814	.6	3.02703	.6	3.58158
.7	1.48678	.7	1.78870	.7	2.14246	.7	2.55554	.7	3.03563	.7	3.59150
.8	1.49142	.8	1.79416	.8	2.14884	.8	2.56296	.8	3.04425	.8	3.60145
.9	1.49607	.9	1.79963	.9	2.15524	.9	2.57040	.9	3.05289	.9	3.61142
92.0	1.50073	98.0	1.80511	104.0	2.16166	110.0	2.57786	116.0	3.06155	122.0	3.62142

[REGNAULT.] Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer.

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
122.0	3.62142	128.0	4.26710	134.0	5.00878	140.0	5.85807	146.0	6.82688	152.0	7.92857
.1	3.63144	.1	4.27865	.1	5.02203	.1	5.87318	.1	6.84412	.1	7.94812
.2	3.64148	.2	4.29023	.2	5.03531	.2	5.88833	.2	6.86139	.2	7.96771
.3	3.65155	.3	4.30184	.3	5.04862	.3	5.90351	.3	6.87870	.3	7.98734
.4	3.66164	.4	4.31347	.4	5.06196	.4	5.91873	.4	6.89605	.4	8.00701
.5	3.67176	.5	4.32512	.5	5.07533	.5	5.93398	.5	6.91343	.5	8.02673
.6	3.68190	.6	4.33680	.6	5.08873	.6	5.94927	.6	6.93085	.6	8.04649
.7	3.69207	.7	4.34851	.7	5.10216	.7	5.96459	.7	6.94830	.7	8.06629
.8	3.70226	.8	4.36024	.8	5.11562	.8	5.97995	.8	6.96579	.8	8.08613
.9	3.71248	.9	4.37199	.9	5.12911	.9	5.99534	.9	6.98332	.9	8.10602
123.0	3.72272	129.0	4.38377	135.0	5.14263	141.0	6.01077	147.0	7.00089	153.0	8.12595
.1	3.73299	.1	4.39556	.1	5.15618	.1	6.02623	.1	7.01850	.1	8.14592
.2	3.74328	.2	4.40739	.2	5.16976	.2	6.04173	.2	7.03615	.2	8.16594
.3	3.75360	.3	4.41925	.3	5.18337	.3	6.05727	.3	7.05384	.3	8.18600
.4	3.76395	.4	4.43113	.4	5.19701	.4	6.07285	.4	7.07157	.4	8.20610
.5	3.77433	.5	4.44304	.5	5.21068	.5	6.08847	.5	7.08933	.5	8.22625
.6	3.78474	.6	4.45498	.6	5.22438	.6	6.10412	.6	7.10713	.6	8.24644
.7	3.79518	.7	4.46695	.7	5.23811	.7	6.11980	.7	7.12497	.7	8.26667
.8	3.80564	.8	4.47895	.8	5.25187	.8	6.13552	.8	7.14284	.8	8.28694
.9	3.81612	.9	4.49098	.9	5.26565	.9	6.15126	.9	7.16075	.9	8.30725
124.0	3.82662	130.0	4.50304	136.0	5.27946	142.0	6.16705	148.0	7.17870	154.0	8.32761
.1	3.83715	.1	4.51513	.1	5.29330	.1	6.18287	.1	7.19668	.1	8.34801
.2	3.84770	.2	4.52725	.2	5.30717	.2	6.19872	.2	7.21470	.2	8.36846
.3	3.85827	.3	4.53940	.3	5.32107	.3	6.21460	.3	7.23275	.3	8.38895
.4	3.86887	.4	4.55157	.4	5.33500	.4	6.23052	.4	7.25084	.4	8.40949
.5	3.87949	.5	4.56377	.5	5.34896	.5	6.24647	.5	7.26897	.5	8.43007
.6	3.89013	.6	4.57600	.6	5.36295	.6	6.26246	.6	7.28714	.6	8.45069
.7	3.90080	.7	4.58826	.7	5.37697	.7	6.27848	.7	7.30534	.7	8.47135
.8	3.91149	.8	4.60055	.8	5.39103	.8	6.29454	.8	7.32358	.8	8.49206
.9	3.92221	.9	4.61287	.9	5.40512	.9	6.31063	.9	7.34286	.9	8.51281
125.0	3.93295	131.0	4.62522	137.0	5.41924	143.0	6.32675	149.0	7.36017	155.0	8.53360
.1	3.94371	.1	4.63760	.1	5.43339	.1	6.34290	.1	7.37852	.1	8.55443
.2	3.95449	.2	4.65000	.2	5.44758	.2	6.35908	.2	7.39691	.2	8.57530
.3	3.96530	.3	4.66243	.3	5.46180	.3	6.37530	.3	7.41534	.3	8.59621
.4	3.97614	.4	4.67489	.4	5.47605	.4	6.39155	.4	7.43381	.4	8.61716
.5	3.98700	.5	4.68738	.5	5.49034	.5	6.40784	.5	7.45233	.5	8.63815
.6	3.99788	.6	4.69990	.6	5.50466	.6	6.42416	.6	7.47087	.6	8.65918
.7	4.00878	.7	4.71244	.7	5.51901	.7	6.44052	.7	7.48947	.7	8.68025
.8	4.01971	.8	4.72501	.8	5.53339	.8	6.45691	.8	7.50811	.8	8.70136
.9	4.03066	.9	4.73761	.9	5.54780	.9	6.47334	.9	7.52679	.9	8.72251
126.0	4.04164	132.0	4.75024	138.0	5.56225	144.0	6.48980	150.0	7.54551	156.0	8.74371
.1	4.05265	.1	4.76289	.1	5.57674	.1	6.50630	.1	7.56427	.1	8.76495
.2	4.06368	.2	4.77558	.2	5.59127	.2	6.52284	.2	7.58307	.2	8.78623
.3	4.07474	.3	4.78829	.3	5.60583	.3	6.53941	.3	7.60192	.3	8.80755
.4	4.08583	.4	4.80102	.4	5.62042	.4	6.55602	.4	7.62081	.4	8.82892
.5	4.09694	.5	4.81378	.5	5.63504	.5	6.57267	.5	7.63975	.5	8.85043
.6	4.10808	.6	4.82657	.6	5.64969	.6	6.58936	.6	7.65873	.6	8.87179
.7	4.11925	.7	4.83939	.7	5.66437	.7	6.60608	.7	7.67775	.7	8.89330
.8	4.13045	.8	4.85224	.8	5.67909	.8	6.62284	.8	7.69682	.8	8.91485
.9	4.14168	.9	4.86512	.9	5.69384	.9	6.63964	.9	7.71593	.9	8.93645
127.0	4.15294	133.0	4.87803	139.0	5.70862	145.0	6.65648	151.0	7.73508	157.0	8.95809
.1	4.16423	.1	4.89097	.1	5.72343	.1	6.67335	.1	7.75426	.1	8.97978
.2	4.17555	.2	4.90394	.2	5.73827	.2	6.69026	.2	7.77348	.2	9.00151
.3	4.18690	.3	4.91694	.3	5.75314	.3	6.70721	.3	7.79274	.3	9.02329
.4	4.19828	.4	4.92997	.4	5.76804	.4	6.72420	.4	7.81204	.4	9.04512
.5	4.20969	.5	4.94303	.5	5.78297	.5	6.74122	.5	7.83137	.5	9.06699
.6	4.22112	.6	4.95612	.6	5.79793	.6	6.75828	.6	7.85074	.6	9.08891
.7	4.23258	.7	4.96924	.7	5.81292	.7	6.77538	.7	7.87014	.7	9.11088
.8	4.24406	.8	4.98239	.8	5.82794	.8	6.79251	.8	7.88958	.8	9.13290
.9	4.25557	.9	4.99557	.9	5.84299	.9	6.80968	.9	7.90906	.9	9.15497
128.0	4.26710	134.0	5.00878	140.0	5.85807	146.0	6.82688	152.0	7.92857	158.0	9.17709

Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer. [REGNAULT.]

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°		°		°		°	
158.0	9.17709	164.0	10.58783	170.0	12.17736	176.0	13.96264	182.0	15.96261	188.0	18.19713
.1	9.19925	.1	10.61280	.1	12.20547	.1	13.99416	.1	15.99787	.1	18.23648
.2	9.22146	.2	10.63782	.2	12.23363	.2	14.02574	.2	16.03319	.2	18.27590
.3	9.24371	.3	10.66289	.3	12.26184	.3	14.05738	.3	16.06858	.3	18.31539
.4	9.26600	.4	10.68801	.4	12.29010	.4	14.08909	.4	16.10404	.4	18.35496
.5	9.28834	.5	10.71319	.5	12.31841	.5	14.12086	.5	16.13957	.5	18.39461
.6	9.31072	.6	10.73842	.6	12.34677	.6	14.15269	.6	16.17516	.6	18.43433
.7	9.33314	.7	10.76371	.7	12.37519	.7	14.18457	.7	16.21081	.7	18.47412
.8	9.35561	.8	10.78906	.8	12.40366	.8	14.21651	.8	16.24653	.8	18.51398
.9	9.37812	.9	10.81446	.9	12.43219	.9	14.24851	.9	16.28231	.9	18.55391
159.0	9.40067	165.0	10.83991	171.0	12.46077	177.0	14.28057	183.0	16.31816	189.0	18.59391
.1	9.42327	.1	10.86541	.1	12.48940	.1	14.31269	.1	16.35408	.1	18.63398
.2	9.44591	.2	10.89096	.2	12.51809	.2	14.34487	.2	16.39006	.2	18.67412
.3	9.46859	.3	10.91655	.3	12.54683	.3	14.37711	.3	16.42611	.3	18.71433
.4	9.49131	.4	10.94219	.4	12.57563	.4	14.40941	.4	16.46223	.4	18.75461
.5	9.51407	.5	10.96788	.5	12.60449	.5	14.44177	.5	16.49842	.5	18.79496
.6	9.53688	.6	10.99362	.6	12.63341	.6	14.47419	.6	16.53467	.6	18.83539
.7	9.55973	.7	11.01941	.7	12.66239	.7	14.50667	.7	16.57099	.7	18.87589
.8	9.58263	.8	11.04525	.8	12.69143	.8	14.53921	.8	16.60737	.8	18.91646
.9	9.60558	.9	11.07114	.9	12.72053	.9	14.57181	.9	16.64382	.9	18.95710
160.0	9.62858	166.0	11.09707	172.0	12.74968	178.0	14.60447	184.0	16.68033	190.0	18.99781
.1	9.65162	.1	11.12306	.1	12.77889	.1	14.63719	.1	16.71691	.1	19.03859
.2	9.67471	.2	11.14910	.2	12.80816	.2	14.66997	.2	16.75356	.2	19.07944
.3	9.69785	.3	11.17519	.3	12.83749	.3	14.70281	.3	16.79028	.3	19.12036
.4	9.72103	.4	11.20133	.4	12.86687	.4	14.73572	.4	16.82707	.4	19.16135
.5	9.74426	.5	11.22752	.5	12.89631	.5	14.76869	.5	16.86393	.5	19.20241
.6	9.76754	.6	11.25376	.6	12.92581	.6	14.80172	.6	16.90086	.6	19.24355
.7	9.79087	.7	11.28005	.7	12.95536	.7	14.83482	.7	16.93785	.7	19.28476
.8	9.81425	.8	11.30639	.8	12.98497	.8	14.86798	.8	16.97491	.8	19.32605
.9	9.83768	.9	11.33278	.9	13.01464	.9	14.90121	.9	17.01204	.9	19.36742
161.0	9.86116	167.0	11.35922	173.0	13.04436	179.0	14.93450	185.0	17.04924	191.0	19.40886
.1	9.88469	.1	11.38571	.1	13.07413	.1	14.96785	.1	17.08651	.1	19.45038
.2	9.90827	.2	11.41225	.2	13.10396	.2	15.00127	.2	17.12384	.2	19.49197
.3	9.93190	.3	11.43885	.3	13.13384	.3	15.03475	.3	17.16124	.3	19.53364
.4	9.95558	.4	11.46550	.4	13.16378	.4	15.06830	.4	17.19871	.4	19.57539
.5	9.97932	.5	11.49220	.5	13.19378	.5	15.10191	.5	17.23625	.5	19.61722
.6	10.00311	.6	11.51895	.6	13.22384	.6	15.13559	.6	17.27386	.6	19.65912
.7	10.02695	.7	11.54576	.7	13.25396	.7	15.16933	.7	17.31154	.7	19.70110
.8	10.05083	.8	11.57262	.8	13.28413	.8	15.20313	.8	17.34929	.8	19.74316
.9	10.07475	.9	11.59954	.9	13.31435	.9	15.23699	.9	17.38710	.9	19.78530
162.0	10.09872	168.0	11.62652	174.0	13.34463	180.0	15.27091	186.0	17.42498	192.0	19.82752
.1	10.12274	.1	11.65355	.1	13.37496	.1	15.30489	.1	17.46293	.1	19.86982
.2	10.14680	.2	11.68064	.2	13.40535	.2	15.33893	.2	17.50095	.2	19.91221
.3	10.17091	.3	11.70778	.3	13.43580	.3	15.37303	.3	17.53904	.3	19.95467
.4	10.19507	.4	11.73498	.4	13.46631	.4	15.40719	.4	17.57720	.4	19.99720
.5	10.21927	.5	11.76223	.5	13.49688	.5	15.44142	.5	17.61542	.5	20.03980
.6	10.24351	.6	11.78953	.6	13.52751	.6	15.47571	.6	17.65371	.6	20.08247
.7	10.26780	.7	11.81689	.7	13.55820	.7	15.51006	.7	17.69207	.7	20.12521
.8	10.29214	.8	11.84430	.8	13.58895	.8	15.54448	.8	17.73049	.8	20.16802
.9	10.31652	.9	11.87176	.9	13.61976	.9	15.57896	.9	17.76898	.9	20.21090
163.0	10.34095	169.0	11.89927	175.0	13.65062	181.0	15.61351	187.0	17.80755	193.0	20.25386
.1	10.36543	.1	11.92684	.1	13.68155	.1	15.64813	.1	17.84619	.1	20.29690
.2	10.38995	.2	11.95446	.2	13.71254	.2	15.68281	.2	17.88490	.2	20.34001
.3	10.41451	.3	11.98213	.3	13.74359	.3	15.71756	.3	17.92368	.3	20.38320
.4	10.43912	.4	12.00985	.4	13.77470	.4	15.75238	.4	17.96253	.4	20.42646
.5	10.46378	.5	12.03763	.5	13.80587	.5	15.78726	.5	18.00145	.5	20.46979
.6	10.48849	.6	12.06546	.6	13.83710	.6	15.82220	.6	18.04044	.6	20.51319
.7	10.51325	.7	12.09335	.7	13.86839	.7	15.85721	.7	18.07950	.7	20.55666
.8	10.53806	.8	12.12130	.8	13.89974	.8	15.89228	.8	18.11864	.8	20.60020
.9	10.56292	.9	12.14930	.9	13.93116	.9	15.92741	.9	18.15785	.9	20.64381
164.0	10.58783	170.0	12.17736	176.0	13.96264	182.0	15.96261	188.0	18.19713	194.0	20.68750

[REGNAULT.] Tension of Vapour in Inches of Mercury to Degrees of Fahrenheit's Thermometer.

Therm.	Tension.	Therm.	Tension.	Therm.	Tension.
°		°		°	
194.0	20.68750	200.0	23.45633	206.0	26.52751
.1	20.73127	.1	23.50498	.1	26.58140
.2	20.77512	.2	23.55371	.2	26.63538
.3	20.81905	.3	23.60252	.3	26.68945
.4	20.86306	.4	23.65141	.4	26.74360
.5	20.90715	.5	23.70038	.5	26.79784
.6	20.95132	.6	23.74944	.6	26.85217
.7	20.99557	.7	23.79858	.7	26.90658
.8	21.03990	.8	23.84780	.8	26.96110
.9	21.08431	.9	23.89710	.9	27.01570
195.0	21.12881	201.0	23.94648	207.0	27.07039
.1	21.17339	.1	23.99594	.1	27.12518
.2	21.21805	.2	24.04548	.2	27.18007
.3	21.26280	.3	24.09511	.3	27.23506
.4	21.30763	.4	24.14483	.4	27.29014
.5	21.35254	.5	24.19464	.5	27.34532
.6	21.39754	.6	24.24454	.6	27.40060
.7	21.44263	.7	24.29453	.7	27.45597
.8	21.48780	.8	24.34461	.8	27.51144
.9	21.53305	.9	24.39478	.9	27.56701
196.0	21.57837	202.0	24.44504	208.0	27.62267
.1	21.62377	.1	24.49538	.1	27.67843
.2	21.66924	.2	24.54581	.2	27.73429
.3	21.71479	.3	24.59633	.3	27.79025
.4	21.76042	.4	24.64694	.4	27.84631
.5	21.80612	.5	24.69764	.5	27.90247
.6	21.85189	.6	24.74843	.6	27.95873
.7	21.89774	.7	24.79931	.7	28.01508
.8	21.94367	.8	24.85027	.8	28.07152
.9	21.98967	.9	24.90132	.9	28.12805
197.0	22.03575	203.0	24.95246	209.0	28.18467
.1	22.08190	.1	25.00368	.1	28.24137
.2	22.12813	.2	25.05499	.2	28.29816
.3	22.17443	.3	25.10638	.3	28.35504
.4	22.22081	.4	25.15786	.4	28.41201
.5	22.26726	.5	25.20943	.5	28.46907
.6	22.31379	.6	25.26108	.6	28.52622
.7	22.36041	.7	25.31282	.7	28.58346
.8	22.40711	.8	25.36464	.8	28.64079
.9	22.45390	.9	25.41654	.9	28.69821
198.0	22.50077	204.0	25.46853	210.0	28.75571
.1	22.54773	.1	25.52061	.1	28.81329
.2	22.59478	.2	25.57279	.2	28.87095
.3	22.64193	.3	25.62506	.3	28.92870
.4	22.68915	.4	25.67742	.4	28.98653
.5	22.73646	.5	25.72987	.5	29.04444
.6	22.78386	.6	25.78242	.6	29.10243
.7	22.83134	.7	25.83506	.7	29.16050
.8	22.87891	.8	25.88779	.8	29.21865
.9	22.92656	.9	25.94062	.9	29.27688
199.0	22.97429	205.0	25.99353	211.0	29.33518
.1	23.02211	.1	26.04653	.1	29.39355
.2	23.07002	.2	26.09962	.2	29.45199
.3	23.11802	.3	26.15280	.3	29.51050
.4	23.16611	.4	26.20606	.4	29.56908
.5	23.21428	.5	26.25941	.5	29.62773
.6	23.26253	.6	26.31285	.6	29.68645
.7	23.31086	.7	26.36638	.7	29.74524
.8	23.35927	.8	26.42000	.8	29.80409
.9	23.40776	.9	26.47371	.9	29.86300
200.0	23.45633	206.0	26.52751	212.0	29.92196

SQUARE MEASURE.

Metres or Yards.	Yards into Metres.	Metres into Yards.	Metres or Yards.	Yards into Metres.	Metres into Yards.
1	.836	1.196	60	50.166	71.762
2	1.672	2.392	61	51.002	72.958
3	2.508	3.588	62	51.838	74.154
4	3.344	4.784	63	52.674	75.350
5	4.180	5.980	64	53.510	76.546
6	5.017	7.176	65	54.346	77.742
7	5.853	8.372	66	55.182	78.938
8	6.689	9.568	67	56.018	80.134
9	7.525	10.764	68	56.855	81.330
10	8.361	11.960	69	57.691	82.526
11	9.197	13.156	70	58.527	83.722
12	10.033	14.352	71	59.363	84.918
13	10.869	15.548	72	60.199	86.114
14	11.705	16.744	73	61.035	87.310
15	12.541	17.940	74	61.871	88.506
16	13.378	19.137	75	62.707	89.702
17	14.214	20.333	76	63.543	90.899
18	15.050	21.529	77	64.379	92.095
19	15.886	22.725	78	65.216	93.291
20	16.722	23.921	79	66.052	94.487
21	17.558	25.117	80	66.888	95.683
22	18.394	26.313	81	67.724	96.879
23	19.230	27.509	82	68.560	98.075
24	20.066	28.705	83	69.396	99.271
25	20.902	29.901	84	70.232	100.467
26	21.739	31.097	85	71.068	101.663
27	22.575	32.293	86	71.904	102.859
28	23.411	33.489	87	72.740	104.055
29	24.247	34.685	88	73.577	105.251
30	25.083	35.881	89	74.413	106.447
31	25.919	37.077	90	75.249	107.643
32	26.755	38.273	91	76.085	108.839
33	27.591	39.469	92	76.921	110.035
34	28.427	40.665	93	77.757	111.231
35	29.263	41.861	94	78.593	112.427
36	30.099	43.057	95	79.429	113.623
37	30.936	44.253	96	80.265	114.819
38	31.772	45.449	97	81.101	116.015
39	32.608	46.645	98	81.938	117.211
40	33.444	47.841	99	82.774	118.407
41	34.280	49.037	100	83.610	119.603
42	35.116	50.233	200	167.219	239.207
43	35.952	51.429	300	250.829	358.810
44	36.788	52.625	400	334.439	478.413
45	37.624	53.821	500	418.049	598.017
46	38.460	55.018	600	501.658	717.620
47	39.297	56.214	700	585.268	837.223
48	40.133	57.410	800	668.878	956.826
49	40.969	58.606	900	752.487	1076.430
50	41.805	59.802	1000	836.097	1196.033
51	42.641	60.998	2000	1672.194	2392.066
52	43.477	62.194	3000	2508.291	3588.099
53	44.313	63.390	4000	3344.388	4784.132
54	45.149	64.586	5000	4180.485	5980.165
55	45.985	65.782	6000	5016.582	7176.198
56	46.821	66.978	7000	5852.679	8372.231
57	47.658	68.174	8000	6688.776	9568.264
58	48.494	69.370	9000	7524.873	10764.297
59	49.330	70.566	10000	8360.970	11960.330

LAND MEASURE.

Yards or Metres.	Yards into Metres.	Metres into Yards.
1	.836	1.196
2	1.672	2.392
3	2.508	3.588
4	3.344	4.784
5	4.180	5.980
5½	4.598	6.578

Rods or Ares.	Rods into Ares.	Ares into Rods.
1	.25292	3.9538
2	.50584	7.9077
3	.75876	11.8615
4	1.01168	15.8153
5	1.26460	19.7691
6	1.51752	23.7230
7	1.77044	27.6768
8	2.02335	31.6306
9	2.27627	35.5845
10	2.52919	39.5383
11	2.78211	43.4921
12	3.03503	47.4460
13	3.28795	51.3998
14	3.54087	55 3536
15	3.79379	59.3074
16	4.04671	63.2613
17	4.29963	67.2151
18	4.55255	71.1689
19	4.80547	75.1228
20	5.05839	79.0766
21	5.31131	83.0304
22	5.56423	86.9843
23	5.81715	90.9381
24	6.07007	94.8919
25	6.32298	98.8458
26	6.57590	102.8996
27	6.82882	106.7534
28	7.08174	110.7072
29	7.33466	114.6611
30	7.58758	118.6149
31	7.84050	122.5687
32	8.09342	126.5225
33	8.34634	130.4764
34	8.59926	134.4302
35	8.85218	138.3840
36	9.10510	142.3379
37	9.35802	146.2917
38	9.61094	150.2455
39	9.86386	154.1994
40	10.11678	158.1532

Roods or Ares.	Roods into Ares.	Ares into Roods.
1	10.1168	.098845
2	20.2336	.197690
3	30.3503	.296535
4	40.4671	.395380

Acres or Hectares	Acres into Hectares.	Hectares into Acres.
1	.40467	2.4711
2	.80934	4.9423
3	1.21401	7.4134
4	1.61868	9.8846
5	2.02335	12.3557
6	2.42803	14.8268
7	2.83270	17.2980
8	3.23737	19.7691
9	3.64204	22.2403
10	4.04671	24.7114
11	4.45138	27.1826
12	4.85605	29.6537
13	5.26072	32.1248
14	5.66539	34.5960
15	6.07006	37.0671
16	6.47473	39.5383
17	6.87941	42.0094
18	7.28408	44.4806
19	7.68875	46.9517
20	8.09342	49.4228
21	8.49809	51.8940
22	8.90276	54.3651
23	9.30743	56.8363
24	9.71210	59.3074
25	10.11677	61.7786
26	10.52144	64.2497
27	10.92612	66.7209
28	11.33079	69.1920
29	11.73546	71.6631
30	12.14013	74.1342
31	12.54480	76.6054
32	12.94947	79.0766
33	13.35414	81.5477
34	13.75881	84.0188
35	14.16348	86.4900
36	14.56815	88.9611
37	14.97283	91.4322
38	15.37749	93.9034
39	15.78216	96.3745
40	16.18684	98.8457
41	16.59151	101.3168
42	16.99618	103.7880
43	17.40085	106.2591
44	17.80552	108.7303
45	18.21019	111.2014
46	18.61487	113.6726
47	19.01953	116.1437
48	19.42420	118.6148
49	19.82888	121.0860
50	20.23355	123.5571
51	20.63822	126.0283
52	21.04289	128.4994
53	21.44756	130.9706
54	21.85223	133.4417
55	22.25690	135.9129
56	22.66157	138.3840
57	23.06624	140.8551
58	23.47091	143.3263
59	23.87558	145.7974

Acres or Hectares	Acres into Hectares.	Hectares into Acres.
60	24.28026	148.2686
61	24.68493	150.7397
62	25.08960	153.2109
63	25.49427	155.6820
64	25.89894	158.1531
65	26.30361	160.6243
66	26.70828	163.0954
67	27.11295	165.5666
68	27.51762	168.0377
69	27.92229	170.5089
70	28.32697	172.9800
71	28.73164	175.4511
72	29.13631	177.9223
73	29.54098	180.3934
74	29.94565	182.8646
75	30.35032	185.3357
76	30.75499	187.8068
77	31.15966	190.2780
78	31.56433	192.7491
79	31.96900	195.2203
80	32.37368	197.6914
81	32.77835	200.1626
82	33.18302	202.6337
83	33.58769	205.1048
84	33.99236	207.5760
85	34.39703	210.0471
86	34.80170	212.5183
87	35.20637	214.9894
88	35.61104	217.4606
89	36.01571	219.9317
90	36.42039	222.4029
91	36.82506	224.8740
92	37.22973	227.3451
93	37.63440	229.8163
94	38.03907	232.2874
95	38.44374	234.7586
96	38.84841	237.2297
97	39.25308	239.7009
98	39.65775	242.1720
99	40.06242	244.6431
100	40.46709	247.1143
200	80.93419	494.2286
300	121.40128	741.3429
400	161.86838	988.4572
500	202.33547	1235.5715
600	242.80256	1482.6858
700	283.26966	1729.8001
800	323.73675	1976.9144
900	364.20384	2224.0287
1000	404.67094	2471.1430
2000	809.34188	4942.2860
3000	1214.01282	7413.4290
4000	1618.68376	9884.5720
5000	2023.35470	12355.7150
6000	2428.02564	14826.8580
7000	2832.69658	17298.0010
8000	3237.36752	19769.1440
9000	3642.03846	22240.2870
10000	4046.70940	24711.4300

TROY WEIGHT AND GRAMMES.

Grains. or Grmms.	Grains into Grammes.	Grammes into Grains.
1	.0648	15.433
2	.1296	30.865
3	.1944	46.298
4	.2592	61.730
5	.3240	77.163
6	.3888	92.595
7	.4536	108.028
8	.5184	123.460
9	.5832	138.893
10	.6480	154.325
11	.7128	169.758
12	.7776	185.190
13	.8424	200.623
14	.9072	216 055
15	.9720	231.488
16	1.0368	246.920
17	1.1016	262.353
18	1.1664	277.785
19	1.2312	293.218
20	1.2960	308.650
21	1.3608	324.083
22	1.4256	339.515
23	1.4904	354.948
24	1.5551	370.380

Troy lbs. or Kilogms.	Troy lbs. into Kilogrammes	Kilogrammes into Troy lbs.
1	.37324	2.679
2	.74648	5.359
3	1.11971	8.038
4	1.49295	10.717
5	1.86619	13.396
6	2.23943	16.076
7	2.61267	18.755
8	2.98591	21.434
9	3.35914	24.113
10	3.73238	26.793
11	4.10562	29.472
12	4.47886	32.151
13	4.85210	34.830
14	5.22534	37.510
15	5.59857	40.189
16	5.97181	42.868
17	6.34505	45.547
18	6.71829	48.227
19	7.09153	50.906
20	7.46477	53.585
21	7.83800	56.264
22	8.21124	58.944
23	8.58448	61.623
24	8.95772	64.302
25	9.33096	66.981
26	9.70419	69.661
27	10.07743	72.340
28	10.45067	75.019
29	10.82391	77.698
30	11.19715	80.378
31	11.57039	83.057
32	11.94362	85.736
33	12.31686	88.415
34	12.69010	91.095
35	13.06334	93.774
36	13.43658	96.453
37	13.80982	99.132
38	14.18305	101.812
39	14.55629	104.491
40	14.92953	107.170
41	15.30277	109.849
42	15.67601	112.529
43	16.04925	115.208
44	16.42248	117.887
45	16.79572	120.566
46	17.16896	123.246
47	17.54220	125.925
48	17.91544	128.604
49	18.28867	131.283
50	18.66191	133.963
51	19.03515	136.642
52	19.40839	139.321
53	19.78163	142.000
54	20.15487	144.680
55	20.52810	147.359
56	20.90134	150.038
57	21.27458	152.717
58	21.64782	155.397
59	22.02106	158.076

Troy lbs. or Kilogms.	Troy lbs. into Kilogrammes.	Kilogrammes into Troy lbs.
60	22.39430	160.755
61	22.76753	163.434
62	23.14077	166.114
63	23.51401	168.793
64	23.88725	171.472
65	24.26049	174.152
66	24.63373	176.831
67	25.00696	179.510
68	25.38020	182.189
69	25.75344	184.869
70	26.12668	187.548
71	26.49992	190.227
72	26.87315	192.906
78	27.24639	195.586
74	27.61963	198.265
75	27.99287	200.944
76	28.36611	203.623
77	28.73935	206.303
78	29.11258	208.982
79	29.48582	211.661
80	29.85906	214.340
81	30.23230	217.020
82	30.60554	219.699
83	30.97878	222.378
84	31.35201	225.057
85	31.72525	227.737
86	32.09849	230.416
87	32.47173	233.095
88	32.84497	235.774
89	33.21821	238.454
90	33.59144	241.133
91	33.96468	243.812
92	34.33792	246.491
93	34.71116	249.171
94	35.08440	251.850
95	35.45763	254.529
96	35.83087	257.208
97	36.20411	259.888
98	36.57735	262.567
99	36.95059	265.246
100	37.32383	267.925
200	74.64765	535.851
300	111.97148	803.776
400	149.29530	1071.702
500	186.61913	1339.627
600	223.94296	1607.552
700	261.26678	1875.478
800	298.59061	2143.403
900	335.91443	2411.329
1000	373.23826	2679.254
2000	746.47652	5358.508
3000	1119.71478	8037.762
4000	1492.95304	10717.016
5000	1866.19130	13396.270
6000	2239.42956	16075.524
7000	2612.66782	18754.778
8000	2985.90608	21434.032
9000	3359.14434	24113.286
1000	3732.38260	26792.540

Dwts. or Gramms.	Dwts. into Grammes.	Grammes into Dwts.
1	1.555	.643
2	3.110	1.286
3	4.665	1.929
4	6.221	2.572
5	7.776	3.215
6	9.331	3.858
7	10.886	4.501
8	12.441	5.144
9	13.996	5.787
10	15.552	6.430
11	17.107	7.073
12	18.662	7.716
13	20.217	8.359
14	21.772	9.002
15	23.327	9.645
16	24.883	10.288
17	26.438	10.931
18	27.993	11.574
19	29.548	12.217
20	31.103	12.860

Oz. or Gramms.	Oz. into Grammes.	Grammes into Oz.
1	31.103	.0322
2	62.206	.0643
3	93.310	.0965
4	124.413	.1286
5	155.516	.1608
6	186.619	.1929
7	217.722	.2251
8	248.825	.2572
9	279.929	.2894
10	311.032	.3215
11	342.135	.3536
12	373.238	.3858

AVOIRDUPOIS WEIGHT AND GRAMMES.

Drams or Gramms.	Drams into Grammes.	Gramms. into Drams.	Av. lbs. or Kilogms.	Avoidp. lbs. into Kilogrammes.	Kilogrammes into Avoidp. lbs.	Av. lbs. or Kilogms.	Avoidp. lbs. into Kilogrammes.	Kilogrammes into Avoidp. lbs.
1	1.772	.564	1	.45359	2.205	57	25.85451	125.665
2	3.544	1.129	2	.90718	4.409	58	26.30809	127.869
3	5.315	1.693	3	1.36076	6.614	59	26.76168	130.074
4	7.087	2.258	4	1.81435	8.819	60	27.21527	132.279
5	8.859	2.822	5	2.26794	11.023	61	27.66886	134.483
6	10.631	3.386	6	2.72153	13.228	62	28.12244	136.688
7	12.403	3.951	7	3.17511	15.432	63	28.57603	138.892
8	14.175	4.515	8	3.62870	17.637	64	29.02962	141.097
9	15.946	5.079	9	4.08229	19.842	65	29.48321	143.302
10	17.718	5.644	10	4.53588	22.046	66	29.93680	145.506
11	19.490	6.208						
12	21.262	6.773	11	4.98947	24.251	67	30.39038	147.711
13	23.034	7.337	12	5.44305	26.456	68	30.84397	149.916
14	24.806	7.901	13	5.89664	28.660	69	31.29756	152.120
15	26.577	8.466	14	6.35023	30.865	70	31.75115	154.325
16	28.349	9.030	15	6.80382	33.070	71	32.20474	156.530
			16	7.25741	35.274	72	32.65832	158.734
Oz. Av. or Gramms.	Oz. Avoidp. into Grammes.	Grammes. into Ounces.	17	7.71099	37.479	73	33.11191	160.939
			18	8.16458	39.684	74	33.56550	163.144
			19	8.61817	41.888	75	34.01909	165.348
			20	9.07176	44.093	76	34.47267	167.553
1	28.349	.03527	21	9.52534	46.297	77	34.92626	169.757
2	56.699	.07055	22	9.97893	48.502	78	35.37985	171.962
3	85.048	.10582	23	10.43252	50.707	79	35.83344	174.167
4	113.397	.14110	24	10.88611	52.911	80	36.28703	176.371
5	141.746	.17637	25	11.33970	55.116	81	36.74061	178.576
6	170.096	.21164	26	11.79328	57.321	82	37.19420	180.781
7	198.445	.24692	27	12.24687	59.525	83	37.64779	182.985
8	226.794	.28219	28	12.70046	61.730	84	38.10138	185.190
9	255.143	.31747	29	13.15405	63.935	85	38.55496	187.395
10	283.493	.35274	30	13.60763	66.139	86	39.00855	189.599
11	311.842	.38802						
12	340.191	.42329	31	14.06122	68.344	87	39.46214	191.804
13	368.540	.45857	32	14.51481	70.549	88	39.91573	194.009
14	396.890	.49384	33	14.96840	72.753	89	40.36932	196.213
15	425.239	.52911	34	15.42199	74.958	90	40.82290	198.418
16	453.588	.56439	35	15.87557	77.162	91	41.27649	200.622
			36	16.32916	79.367	92	41.73008	202.827
			37	16.78275	81.572	93	42.18367	205.032
			38	17.23634	83.776	94	42.63726	207.236
			39	17.68992	85.981	95	43.09084	209.441
			40	18.14351	88.185	96	43.54443	211.646
			41	18.59710	90.390	97	43.99802	213.850
			42	19.05069	92.595	98	44.45161	216.055
			43	19.50428	94.800	99	44.90519	218.260
			44	19.95786	97.004	100	45.35878	220.464
			45	20.41145	99.209	101	45.81237	222.669
			46	20.86504	101.414	102	46.26596	224.874
			47	21.31863	103.618	103	46.71955	227.078
			48	21.77222	105.823	104	47.17313	229.283
			49	22.22580	108.027	105	47.62672	231.487
			50	22.67939	110.232	106	48.08031	233.692
			51	23.13298	112.437	107	48.53390	235.897
			52	23.58657	114.641	108	48.98748	238.101
			53	24.04015	116.846	109	49.44107	240.306
			54	24.49374	119.051	110	49.89466	242.511
			55	24.94733	121.255	111	50.34825	244.715
			56	25.40092	123.460	112	50.80184	246.920

AVOIRDUPOIS WEIGHT AND GRAMMES.

Cwt. or Quintal.	Cwts. into Quintals.	Quintals into Cwts.	Tons or Milliers.	Tons into Milliers.	Milliers into Tons.	Tons or Milliers.	Tons into Milliers.	Milliers into Tons.
1	.50802	1.9684	1	1.0160	.9842	60	60.9622	59.0528
2	1.01604	3.9369	2	2.0321	1.9684	61	61.9782	60.0370
3	1.52406	5.9053	3	3.0481	2.9526	62	62.9943	61.0212
4	2.03207	7.8737	4	4.0641	3.9369	63	64.0103	62.0054
5	2.54009	9.8421	5	5.0802	4.9211	64	65.0263	62.9896
6	3.04811	11.8106	6	6.0962	5.9053	65	66.0424	63.9738
7	3.55613	13.7790	7	7.1123	6.8895	66	67.0584	64.9580
8	4.06415	15.7474	8	8.1283	7.8737	67	68.0745	65.9423
9	4.57217	17.7159	9	9.1443	8.8579	68	69.0905	66.9265
10	5.08018	19.6843	10	10.1604	9.8421	69	70.1065	67.9107
11	5.58820	21.6527	11	11.1764	10.8263	70	71.1226	68.8949
12	6.09622	23.6212	12	12.1924	11.8106	71	72.1386	69.8791
13	6.60424	25.5896	13	13.2085	12.7948	72	73.1546	70.8633
14	7.11226	27.5580	14	14.2245	13.7790	73	74.1707	71.8475
15	7.62028	29.5264	15	15.2405	14.7632	74	75.1867	72.8318
16	8.12829	31.4949	16	16.2566	15.7474	75	76.2028	73.8160
17	8.63631	33.4633	17	17.2726	16.7316	76	77.2188	74.8002
18	9.14433	35.4317	18	18.2886	17.7158	77	78.2348	75.7844
19	9.65235	37.4002	19	19.3047	18.7000	78	79.2509	76.7686
20	10.16037	39.3686	20	20.3207	19.6843	79	80.2669	77.7528
			21	21.3368	20.6685	80	81.2829	78.7370
			22	22.3528	21.6527	81	82.2990	79.7213
			23	23.3688	22.6369	82	83.3150	80.7055
			24	24.3849	23.6211	83	84.3310	81.6897
			25	25.4009	24.6053	84	85.3471	82.6739
			26	26.4170	25.5895	85	86.3631	83.6581
			27	27.4330	26.5737	86	87.3792	84.6423
			28	28.4490	27.5580	87	88.3952	85.6265
			29	29.4651	28.5422	88	89.4112	86.6107
			30	30.4811	29.5264	89	90.4273	87.5950
			31	31.4971	30.5106	90	91.4433	88.5792
			32	32.5132	31.4948	91	92.4593	89.5634
			33	33.5292	32.4790	92	93.4754	90.5476
			34	34.5452	33.4632	93	94.4914	91.5318
			35	35.5613	34.4474	94	95.5075	92.5160
			36	36.5773	35.4317	95	96.5235	93.5002
			37	37.5934	36.4159	96	97.5395	94.4844
			38	38.6094	37.4001	97	98.5556	95.4687
			39	39.6254	38.3843	98	99.5716	96.4529
			40	40.6415	39.3685	99	100.5876	97.4371
			41	41.6575	40.3527	100	101.6037	98.4213
			42	42.6735	41.3369	200	203.2073	196.8426
			43	43.6896	42.3212	300	304.8110	295.2640
			44	44.7056	43.3054	400	406.4147	393.6853
			45	45.7217	44.2896	500	508.0184	492.1066
			46	46.7377	45.2738	600	609.6220	590.5279
			47	47.7537	46.2580	700	711.2257	688.9492
			48	48.7698	47.2422	800	812.8294	787.3705
			49	49.7858	48.2264	900	914.4330	885.7919
			50	50.8018	49.2106	1000	1016.0367	984.2132
			51	51.8179	50.1949	2000	2032.0734	1968.4264
			52	52.8339	51.1791	3000	3048.1102	2952.6395
			53	53.8499	52.1633	4000	4064.1469	3936.8527
			54	54.8660	53.1475	5000	5080.1836	4921.0658
			55	55.8820	54.1317	6000	6096.2203	5905.2790
			56	56.8981	55.1159	7000	7112.2570	6889.4921
			57	57.9141	56.1001	8000	8128.2937	7873.7053
			58	58.9301	57.0843	9000	9144.3305	8857.9185
			59	59.9462	58.0686	10000	10160.3672	9842.1316

MEASURES OF CAPACITY.

Pints or Litres.	Pints into Litres.	Litres into Pints.	Gallons or Litres.	Gallons into Litres.	Litres into Gallons.	Gallons or Litres.	Gallons into Litres.	Litres into Gallons.
1	.568	1.761	1	4.543	.22010	60	272.607	13.20580
2	1.136	3.522	2	9.087	.44019	61	277.151	13.42590
3	1.704	5.282	3	13.630	.66029	62	281.694	13.64600
4	2.272	7.043	4	18.174	.88039	63	286.238	13.86609
5	2.840	8.804	5	22.717	1.10048	64	290.781	14.08619
6	3.408	10.565	6	27.261	1.32058	65	295.325	14.30629
7	3.976	12.325	7	31.804	1.54068	66	299.868	14.52638
8	4.543	14.086	8	36.348	1.76077	67	304.412	14.74648
			9	40.891	1.98087	68	308.955	14.96658
			10	45.435	2.20097	69	313.499	15.18667
			11	49.978	2.42106	70	318.042	15.40677
			12	54.521	2.64116	71	322.586	15.62687
			13	59.065	2.86126	72	327.129	15.84696
			14	63.608	3.08135	73	331.672	16.06706
			15	68.152	3.30145	74	336.216	16.28716
			16	72.695	3.52155	75	340.759	16.50725
			17	77.239	3.74164	76	345.303	16.72735
			18	81.782	3.96174	77	349.846	16.94745
			19	86.326	4.18184	78	354.390	17.16754
			20	90.869	4.40193	79	358.933	17.38764
			21	95.413	4.62203	80	363.477	17.60774
			22	99.956	4.84213	81	368.020	17.82783
			23	104.500	5.06222	82	372.564	18.04793
			24	109.043	5.28232	83	377.107	18.26803
			25	113.586	5.50242	84	381.650	18.48812
			26	118.130	5.72251	85	386.194	18.70822
			27	122.673	5.94261	86	390.737	18.92832
			28	127.217	6.16271	87	395.281	19.14841
			29	131.760	6.38280	88	399.824	19.36851
			30	136.304	6.60290	89	404.368	19.58861
			31	140.847	6.82300	90	408.911	19.80870
			32	145.391	7.04309	91	413.455	20.02880
			33	149.934	7.26319	92	417.998	20.24890
			34	154.478	7.48329	93	422.542	20.46899
			35	159.021	7.70338	94	427.085	20.68909
			36	163.564	7.92348	95	431.629	20.90919
			37	168.108	8.14358	96	436.172	21.12928
			38	172.651	8.36367	97	440.715	21.34938
			39	177.195	8.58377	98	445.259	21.56948
			40	181.738	8.80387	99	449.802	21.78957
			41	186.282	9.02396	100	454.346	22.00967
			42	190.825	9.24406	200	908.692	44.01934
			43	195.369	9.46416	300	1363.037	66.02900
			44	199.912	9.68425	400	1817.383	88.03867
			45	204.456	9.90435	500	2271.729	110.04834
			46	208.999	10.12445	600	2726.075	132.05801
			47	213.543	10.34454	700	3180.421	154.06767
			48	218.086	10.56464	800	3634.766	176.07734
			49	222.629	10.78474	900	4089.112	198.08700
			50	227.173	11.00484	1000	4543.458	220.09667
			51	231.716	11.22493	2000	9086.916	440.19336
			52	236.260	11.44503	3000	13630.374	660.29001
			53	240.803	11.66513	4000	18173.832	880.38668
			54	245.347	11.88522	5000	22717.290	1100.48335
			55	249.890	12.10532	6000	27260.748	1320.58002
			56	254.434	12.32542	7000	31804.206	1540.67669
			57	258.977	12.54551	8000	36347.664	1760.77336
			58	263.521	12.76561	9000	40891.122	1980.87003
			59	268.064	12.98571	10000	45434.580	2200.96670

$w = 90°$.				$w = 180°$.			
u.	$1 + \frac{H}{F}$	Log. $1+\frac{H}{F}$	Log. diff. for 1 min.	u	$1 + \frac{H}{F}$	Log. $1+\frac{H}{F}$	Log. diff. for 1 min.
′				′			
1	1.0001852	0.0000804	805	1	1.0000926	0.0000402	402
2	1.0003705	0.0001609	805	2	1.0001852	0.0000804	403
3	1.0005559	0.0002413	805	3	1.0002779	0.0001207	402
4	1.0007413	0.0003218	805	4	1.0003705	0.0001609	402
5	1.0009268	0.0004023	805	5	1.0004632	0.0002011	402
6	1.0011124	0.0004828	805	6	1.0005559	0.0002413	403
7	1.0012980	0.0005633	805	7	1.0006486	0.0002816	402
8	1.0014837	0.0006438	806	8	1.0007413	0.0003218	403
9	1.0016695	0.0007244	806	9	1.0008340	0.0003621	402
10	1.0018553	0.0008050	806	10	1.0009268	0.0004023	403
11	1.0020412	0.0008856	806	11	1.0010196	0.0004426	402
12	1.0022272	0.0009662	806	12	1.0011124	0.0004828	403
13	1.0024132	0.0010468	806	13	1.0012052	0.0005231	402
14	1.0025993	0.0011274	806	14	1.0012980	0.0005633	403
15	1.0027855	0.0012080	807	15	1.0013908	0.0006036	403
16	1.0029718	0.0012887	807	16	1.0014837	0.0006439	402
17	1.0031581	0.0013694	807	17	1.0015766	0.0006841	403
18	1.0033445	0.0014501	807	18	1.0016695	0.0007244	403
19	1.0035309	0.0015308	807	19	1.0017624	0.0007647	403
20	1.0037175	0.0016115	807	20	1.0018553	0.0008050	403
21	1.0039041	0.0016922	808	21	1.0019482	0.0008453	403
22	1.0040907	0.0017730	807	22	1.0020412	0.0008856	403
23	1.0042775	0.0018537	808	23	1.0021342	0.0009259	403
24	1.0044643	0.0019345	808	24	1.0022272	0.0009662	403
25	1.0046512	0.0020153	808	25	1.0023202	0.0010065	403
26	1.0048381	0.0020961	808	26	1.0024132	0.0010468	403
27	1.0050251	0.0021769	809	27	1.0025063	0.0010871	403
28	1.0052122	0.0022578	808	28	1.0025993	0.0011274	403
29	1.0053994	0.0023386	809	29	1.0026924	0.0011677	404
30	1.0055866	0.0024195	809	30	1.0027855	0.0012081	403
31	1.0057739	0.0025004	809	31	1.0028786	0.0012484	403
32	1.0059613	0.0025813	809	32	1.0029718	0.0012887	403
33	1.0061487	0.0026622	809	33	1.0030649	0.0013290	404
34	1.0063362	0.0027431	809	34	1.0031581	0.0013694	403
35	1.0065238	0.0028240	810	35	1.0032513	0.0014097	404
36	1.0067114	0.0029050	810	36	1.0033445	0.0014501	403
37	1.0068991	0.0029860	810	37	1.0034377	0.0014904	404
38	1.0070869	0.0030670	810	38	1.0035309	0.0015308	403
39	1.0072748	0.0031480	810	39	1.0036242	0.0015711	404
40	1.0074627	0.0032290	810	40	1.0037175	0.0016115	404
41	1.0076507	0.0033100	811	41	1.0038108	0.0016519	403
42	1.0078388	0.0033911	810	42	1.0039041	0.0016922	404
43	1.0080269	0.0034721	811	43	1.0039974	0.0017326	404
44	1.0082151	0.0035532	811	44	1.0040907	0.0017730	403
45	1.0084034	0.0036343	811	45	1.0041841	0.0018133	404
46	1.0085917	0.0037154	811	46	1.0042775	0.0018537	404
47	1.0087801	0.0037965	812	47	1.0043709	0.0018941	404
48	1.0089686	0.0038777	811	48	1.0044643	0.0019345	404
49	1.0091572	0.0039588	812	49	1.0045577	0.0019749	404
50	1.0093458	0.0040400	812	50	1.0046512	0.0020153	404
51	1.0095345	0.0041212	812	51	1.0047446	0.0020557	404
52	1.0097233	0.0042024	812	52	1.0048381	0.0020961	404
53	1.0099121	0.0042836	812	53	1.0049316	0.0021365	404
54	1.0101010	0.0043648	813	54	1.0050251	0.0021769	404
55	1.0102900	0.0044461	812	55	1.0051187	0.0022173	405
56	1.0104790	0.0045273	813	56	1.0052122	0.0022578	404
57	1.0106682	0.0046086	813	57	1.0053058	0.0022982	404
58	1.0108574	0.0046899	813	58	1.0053994	0.0023386	404
59	1.0110466	0.0047712	813	59	1.0054930	0.0023790	405
60	1.0112360	0.0048525		60	1.0055866	0.0024195	

Temperature below Standard.						Temperature above Standard.					
$t-t_o$	Log. $1+2e(t-t_o)$	Proportional parts.				$t-t_o$	Log. $1+2e(t-t_o)$	Proportional parts.			
		Δt	Log. Δt	Δt	Log. Δt			Δt	Log. Δt	Δt	Log. Δt
°		°		°		°		°		°	
1	0.0000059	.01	+ 1	.61	+36	1	9.9999941	.01	− 1	.61	−36
2	0.0000118	.02	1	.62	37	2	9.9999882	.02	1	.62	37
3	0.0000177	.03	2	.63	37	3	9.9999823	.03	2	.63	37
4	0.0000236	.04	2	.64	38	4	9.9999764	.04	2	.64	38
5	0.0000295	.05	3	.65	38	5	9.9999705	.05	3	.65	38
6	0.0000354	.06	4	.66	39	6	9.9999646	.06	4	.66	39
7	0.0000413	.07	4	.67	40	7	9.9999587	.07	4	.67	40
8	0.0000472	.08	5	.68	40	8	9.9999528	.08	5	.68	40
9	0.0000531	.09	5	.69	41	9	9.9999469	.09	5	.69	41
10	0.0000590	.10	6	.70	41	10	9.9999410	.10	6	.70	41
11	0.0000649	.11	6	.71	42	11	9.9999351	.11	6	.71	42
12	0.0000708	.12	7	.72	43	12	9.9999292	.12	7	.72	43
13	0.0000768	.13	8	.73	43	13	9.9999232	.13	8	.73	43
14	0.0000827	.14	8	.74	44	14	9.9999173	.14	8	.74	44
15	0.0000886	.15	9	.75	44	15	9.9999114	.15	9	.75	44
16	0.0000945	.16	9	.76	45	16	9.9999055	.16	9	.76	45
17	0.0001004	.17	10	.77	45	17	9.9998996	.17	10	.77	45
18	0.0001063	.18	11	.78	46	18	9.9998937	.18	11	.78	46
19	0.0001122	.19	11	.79	47	19	9.9998878	.19	11	.79	47
20	0.0001181	.20	12	.80	47	20	9.9998819	.20	12	.80	47
21	0.0001240	.21	12	.81	48	21	9.9998760	.21	12	.81	48
22	0.0001299	.22	13	.82	48	22	9.9998701	.22	13	.82	48
23	0.0001358	.23	14	.83	49	23	9.9998642	.23	14	.83	49
24	0.0001417	.24	14	.84	50	24	9.9998583	.24	14	.84	50
25	0.0001476	.25	15	.85	50	25	9.9998524	.25	15	.85	50
26	0.0001535	.26	15	.86	51	26	9.9998465	.26	15	.86	51
27	0.0001594	.27	16	.87	51	27	9.9998406	.27	16	.87	51
28	0.0001653	.28	17	.88	52	28	9.9998347	.28	17	.88	52
29	0.0001712	.29	17	.89	53	29	9.9998288	.29	17	.89	53
30	0.0001771	.30	18	.90	53	30	9.9998229	.30	18	.90	53
31	0.0001830	.31	18	.91	54	31	9.9998170	.31	18	.91	54
32	0.0001889	.32	19	.92	54	32	9.9998111	.32	19	.92	54
33	0.0001948	.33	19	.93	55	33	9.9998052	.33	19	.93	55
34	0.0002007	.34	20	.94	56	34	9.9997993	.34	20	.94	56
35	0.0002066	.35	21	.95	56	35	9.9997934	.35	21	.95	56
36	0.0002125	.36	21	.96	57	36	9.9997875	.36	21	.96	57
37	0.0002184	.37	22	.97	57	37	9.9997816	.37	22	.97	57
38	0.0002244	.38	22	.98	58	38	9.9997756	.38	22	.98	58
39	0.0002303	.39	23	.99	58	39	9.9997697	.39	23	.99	58
40	0.0002362	.40	24	1.00	59	40	9.9997638	.40	24	1.00	59
41	0.0002421	.41	24			41	9.9997579	.41	24		
42	0.0002480	.42	25			42	9.9997520	.42	25		
43	0.0002539	.43	25			43	9.9997461	.43	25		
44	0.0002598	.44	26			44	9.9997402	.44	26		
45	0.0002657	.45	27			45	9.9997343	.45	27		
46	0.0002716	.46	27			46	9.9997284	.46	27		
47	0.0002775	.47	28			47	9.9997225	.47	28		
48	0.0002834	.48	28			48	9.9997166	.48	28		
49	0.0002893	.49	29			49	9.9997107	.49	29		
50	0.0002952	.50	30			50	9.9997048	.50	30		
51	0.0003011	.51	30			51	9.9996989	.51	30		
52	0.0003070	.52	31			52	9.9996930	.52	31		
53	0.0003129	.53	31			53	9.9996871	.53	31		
54	0.0003188	.54	32			54	9.9996812	.54	32		
55	0.0003247	.55	32			55	9.9996753	.55	32		
56	0.0003306	.56	33			56	9.9996694	.56	33		
57	0.0003365	.57	34			57	9.9996635	.57	34		
58	0.0003424	.58	34			58	9.9996576	.58	34		
59	0.0003483	.59	35			59	9.9996517	.59	35		
60	0.0003542	.60	35			60	9.9996458	.60	35		

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