



DEPARTMENT OF THE INTERIOR.
UNITED STATES GEOLOGICAL SURVEY,
CHARLES D. WALCOTT, DIRECTOR.

TABLE FOR INTERCONVERSION OF MILES AND
LOGARITHMS OF METERS,
FOR
DISTANCES FROM 10 TO 100 MILES.

1900.

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PREPARED BY S. S. GANNETT.

The value adopted for the meter is 39.3700 inches. Distances between triangulation stations are given in logarithms of meters, but for general use distances in miles are most frequently desired.

The following examples illustrate use of the table:

To find the number of miles corresponding to log. distance in meters... 4.56857
 Next lower log. in table is for 23.00 miles 4.56838
 Difference 19

Corresponding to tabular difference for .01 mile.

Hence distance required is 23.01 miles.

For distances less than 10 miles proceed as above; first adding 1 to the characteristic of the given logarithm and afterwards dividing the corresponding number of miles by 10. Example:

Having given the log. 3.84062, which is less than any given in the table, and therefore for a distance less than 10 miles, adding 1 to the characteristic of the logarithm gives 4.84062, which corresponds to a distance of 43.05 miles. Hence the distance sought is

$$\frac{43.05}{10} = 4.305 \text{ miles.}$$

TO CHANGE—

(Add.)

| | |
|--|-----------|
| Log. of miles to log. of meters | 3.2066498 |
| Log. of yards to log. of meters | 9.9611371 |
| Log. of feet to log. of meters | 9.4840158 |
| Log. of inches to log. of meters | 8.4048346 |

TO CHANGE MILES TO INCHES ON MAP.

| | |
|---------------------------------------|------------------|
| Scale 1:125000, 1 mile = 0.50688 ins. | Log. = 9.7049052 |
| Scale 1:90000, 1 mile = 0.70400 ins. | Log. = 9.8475727 |
| Scale 1:62500, 1 mile = 1.01376 ins. | Log. = 0.0059352 |
| Scale 1:45000, 1 mile = 1.40800 ins. | Log. = 0.1486027 |

TO CHANGE—

(Add.)

| | |
|--|-----------|
| Log. of meters to log. of miles | 6.7933502 |
| Log. of meters to log. of yards | 0.0388629 |
| Log. of meters to log. of feet | 0.5159842 |
| Log. of meters to log. of inches | 1.5951654 |

TO CHANGE LOG. OF METERS TO LOG. OF INCHES ON MAP.

| | |
|----------------|---------------|
| Scale 1:125000 | add 6.4982552 |
| Scale 1:90000 | add 6.6409228 |
| Scale 1:62500 | add 6.7992853 |
| Scale 1:45000 | add 6.9419528 |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 10.00 | 4.20665 | 43 | 12.00 | 4.28583 | 36 |
| .05 | 4.20882 | | .05 | 4.28764 | |
| .10 | 4.21097 | | .10 | 4.28944 | |
| .15 | 4.21312 | | .15 | 4.29123 | |
| .20 | 4.21525 | 42 | .20 | 4.29301 | |
| .25 | 4.21737 | | .25 | 4.29479 | 35 |
| .30 | 4.21949 | | .30 | 4.29656 | |
| .35 | 4.22159 | | .35 | 4.29832 | |
| .40 | 4.22368 | | .40 | 4.30007 | |
| .45 | 4.22577 | 41 | .45 | 4.30182 | |
| .50 | 4.22784 | | .50 | 4.30356 | |
| .55 | 4.22990 | | .55 | 4.30529 | |
| .60 | 4.23196 | | .60 | 4.30702 | 34 |
| .65 | 4.23400 | | .65 | 4.30874 | |
| .70 | 4.23603 | | .70 | 4.31046 | |
| .75 | 4.23806 | 40 | .75 | 4.31216 | |
| .80 | 4.24007 | | .80 | 4.31386 | |
| .85 | 4.24208 | | .85 | 4.31555 | |
| .90 | 4.24408 | | .90 | 4.31724 | |
| .95 | 4.24606 | | .95 | 4.31892 | 33 |
| 11.00 | 4.24804 | 39 | 13.00 | 4.32059 | |
| .05 | 4.25001 | | .05 | 4.32226 | |
| .10 | 4.25197 | | .10 | 4.32392 | |
| .15 | 4.25393 | | .15 | 4.32558 | |
| .20 | 4.25587 | | .20 | 4.32722 | |
| .25 | 4.25780 | | .25 | 4.32887 | |
| .30 | 4.25973 | 38 | .30 | 4.33050 | |
| .35 | 4.26165 | | .35 | 4.33213 | 32 |
| .40 | 4.26355 | | .40 | 4.33375 | |
| .45 | 4.26545 | | .45 | 4.33537 | |
| .50 | 4.26735 | | .50 | 4.33698 | |
| .55 | 4.26923 | | .55 | 4.33859 | |
| .60 | 4.27111 | 37 | .60 | 4.34019 | |
| .65 | 4.27298 | | .65 | 4.34178 | |
| .70 | 4.27484 | | .70 | 4.34337 | |
| .75 | 4.27669 | | .75 | 4.34495 | |
| .80 | 4.27853 | | .80 | 4.34653 | 31 |
| .85 | 4.28037 | | .85 | 4.34810 | |
| .90 | 4.28220 | 36 | .90 | 4.34966 | |
| .95 | 4.28402 | | .95 | 4.35122 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 14.00 | 4.35278 | 31 | 16.00 | 4.41077 | 27 |
| .05 | 4.35433 | | .05 | 4.41213 | |
| .10 | 4.35587 | | .10 | 4.41348 | |
| .15 | 4.35741 | | .15 | 4.41482 | |
| .20 | 4.35894 | | .20 | 4.41616 | |
| .25 | 4.36047 | 30 | .25 | 4.41750 | |
| .30 | 4.36199 | | .30 | 4.41884 | |
| .35 | 4.36350 | | .35 | 4.42017 | 26 |
| .40 | 4.36501 | | .40 | 4.42149 | |
| .45 | 4.36652 | | .45 | 4.42282 | |
| .50 | 4.36802 | | .50 | 4.42413 | |
| .55 | 4.36951 | | .55 | 4.42545 | |
| .60 | 4.37100 | | .60 | 4.42676 | |
| .65 | 4.37249 | | .65 | 4.42806 | |
| .70 | 4.37397 | 29 | .70 | 4.42937 | |
| .75 | 4.37544 | | .75 | 4.43067 | |
| .80 | 4.37691 | | .80 | 4.43196 | |
| .85 | 4.37838 | | .85 | 4.43325 | |
| .90 | 4.37984 | | .90 | 4.43454 | |
| .95 | 4.38129 | | .95 | 4.43582 | |
| 15.00 | 4.38274 | | 17.00 | 4.43710 | 25 |
| .05 | 4.38419 | | .05 | 4.43837 | |
| .10 | 4.38563 | | .10 | 4.43964 | |
| .15 | 4.38706 | | .15 | 4.44091 | |
| .20 | 4.38849 | | .20 | 4.44218 | |
| .25 | 4.38992 | 28 | .25 | 4.44344 | |
| .30 | 4.39134 | | .30 | 4.44470 | |
| .35 | 4.39276 | | .35 | 4.44595 | |
| .40 | 4.39417 | | .40 | 4.44720 | |
| .45 | 4.39558 | | .45 | 4.44845 | |
| .50 | 4.39698 | | .50 | 4.44969 | |
| .55 | 4.39838 | | .55 | 4.45093 | |
| .60 | 4.39977 | | .60 | 4.45216 | |
| .65 | 4.40116 | | .65 | 4.45339 | |
| .70 | 4.40255 | | .70 | 4.45462 | |
| .75 | 4.40393 | | .75 | 4.45585 | 24 |
| .80 | 4.40531 | 27 | .80 | 4.45707 | |
| .85 | 4.40668 | | .85 | 4.45829 | |
| .90 | 4.40805 | | .90 | 4.45950 | |
| .95 | 4.40941 | | .95 | 4.46071 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 18.00 | 4.46192 | 24 | 20.00 | 4.50768 | 22 |
| .05 | 4.46313 | | .05 | 4.50876 | |
| .10 | 4.46433 | | .10 | 4.50985 | |
| .15 | 4.46553 | | .15 | 4.51093 | |
| .20 | 4.46672 | | .20 | 4.51200 | |
| .25 | 4.46791 | 23 | .25 | 4.51308 | 21 |
| .30 | 4.46910 | | .30 | 4.51415 | |
| .35 | 4.47029 | | .35 | 4.51521 | |
| .40 | 4.47147 | | .40 | 4.51628 | |
| .45 | 4.47265 | | .45 | 4.51734 | |
| .50 | 4.47382 | | .50 | 4.51840 | 20 |
| .55 | 4.47499 | | .55 | 4.51946 | |
| .60 | 4.47616 | | .60 | 4.52052 | |
| .65 | 4.47733 | | .65 | 4.52157 | |
| .70 | 4.47849 | | .70 | 4.52262 | |
| .75 | 4.47965 | 22 | .75 | 4.52367 | |
| .80 | 4.48081 | | .80 | 4.52471 | |
| .85 | 4.48196 | | .85 | 4.52576 | |
| .90 | 4.48311 | | .90 | 4.52680 | |
| .95 | 4.48426 | | .95 | 4.52783 | |
| 19.00 | 4.48540 | | 21.00 | 4.52887 | |
| .05 | 4.48654 | | .05 | 4.52990 | |
| .10 | 4.48768 | | .10 | 4.53093 | |
| .15 | 4.48882 | | .15 | 4.53196 | |
| .20 | 4.48995 | | .20 | 4.53299 | |
| .25 | 4.49108 | 20 | .25 | 4.53401 | 20 |
| .30 | 4.49221 | | .30 | 4.53503 | |
| .35 | 4.49333 | | .35 | 4.53605 | |
| .40 | 4.49445 | | .40 | 4.53706 | |
| .45 | 4.49557 | | .45 | 4.53808 | |
| .50 | 4.49669 | | .50 | 4.53909 | |
| .55 | 4.49780 | | .55 | 4.54010 | |
| .60 | 4.49891 | | .60 | 4.54110 | |
| .65 | 4.50001 | | .65 | 4.54211 | |
| .70 | 4.50112 | | .70 | 4.54311 | |
| .75 | 4.50222 | | .75 | 4.54411 | |
| .80 | 4.50332 | | .80 | 4.54511 | |
| .85 | 4.50441 | | .85 | 4.54610 | |
| .90 | 4.50550 | | .90 | 4.54709 | |
| .95 | 4.50659 | | .95 | 4.54808 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 22.00 | 4.54907 | 20 | 24.00 | 4.58686 | 18 |
| .05 | 4.55006 | | .05 | 4.58777 | |
| .10 | 4.55104 | | .10 | 4.58867 | |
| .15 | 4.55202 | | .15 | 4.58957 | |
| .20 | 4.55300 | | .20 | 4.59047 | |
| .25 | 4.55398 | 19 | .25 | 4.59136 | 17 |
| .30 | 4.55495 | | .30 | 4.59226 | |
| .35 | 4.55593 | | .35 | 4.59315 | |
| .40 | 4.55690 | | .40 | 4.59404 | |
| .45 | 4.55787 | | .45 | 4.59493 | |
| .50 | 4.55883 | 18 | .50 | 4.59582 | |
| .55 | 4.55980 | | .55 | 4.59670 | |
| .60 | 4.56076 | | .60 | 4.59759 | |
| .65 | 4.56172 | | .65 | 4.59847 | |
| .70 | 4.56268 | | .70 | 4.59935 | |
| .75 | 4.56363 | | .75 | 4.60023 | |
| .80 | 4.56459 | | .80 | 4.60110 | |
| .85 | 4.56554 | | .85 | 4.60198 | |
| .90 | 4.56649 | | .90 | 4.60285 | |
| .95 | 4.56743 | | .95 | 4.60372 | |
| 23.00 | 4.56838 | 18 | 25.00 | 4.60459 | 17 |
| .05 | 4.56932 | | .05 | 4.60546 | |
| .10 | 4.57026 | | .10 | 4.60632 | |
| .15 | 4.57120 | | .15 | 4.60719 | |
| .20 | 4.57214 | | .20 | 4.60805 | |
| .25 | 4.57307 | | .25 | 4.60891 | |
| .30 | 4.57401 | | .30 | 4.60977 | |
| .35 | 4.57494 | | .35 | 4.61063 | |
| .40 | 4.57587 | | .40 | 4.61148 | |
| .45 | 4.57679 | | .45 | 4.61234 | |
| .50 | 4.57772 | 18 | .50 | 4.61319 | 17 |
| .55 | 4.57864 | | .55 | 4.61404 | |
| .60 | 4.57956 | | .60 | 4.61489 | |
| .65 | 4.58048 | | .65 | 4.61574 | |
| .70 | 4.58140 | | .70 | 4.61658 | |
| .75 | 4.58231 | | .75 | 4.61743 | |
| .80 | 4.58323 | | .80 | 4.61827 | |
| .85 | 4.58414 | | .85 | 4.61911 | |
| .90 | 4.58505 | | .90 | 4.61995 | |
| .95 | 4.58596 | | .95 | 4.62079 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 26.00 | 4.62162 | 17 | 28.00 | 4.65381 | 15 |
| .05 | 4.62246 | | .05 | 4.65458 | |
| .10 | 4.62329 | | .10 | 4.65536 | |
| .15 | 4.62412 | | .15 | 4.65613 | |
| .20 | 4.62495 | | .20 | 4.65690 | |
| .25 | 4.62578 | 16 | .25 | 4.65767 | |
| .30 | 4.62661 | | .30 | 4.65844 | |
| .35 | 4.62743 | | .35 | 4.65920 | |
| .40 | 4.62825 | | .40 | 4.65997 | |
| .45 | 4.62908 | | .45 | 4.66073 | |
| .50 | 4.62990 | | .50 | 4.66149 | |
| .55 | 4.63071 | | .55 | 4.66226 | |
| .60 | 4.63153 | | .60 | 4.66302 | |
| .65 | 4.63235 | | .65 | 4.66377 | |
| .70 | 4.63316 | | .70 | 4.66453 | |
| .75 | 4.63397 | | .75 | 4.66529 | |
| .80 | 4.63479 | | .80 | 4.66604 | |
| .85 | 4.63559 | | .85 | 4.66680 | |
| .90 | 4.63640 | | .90 | 4.66755 | |
| .95 | 4.63721 | | .95 | 4.66830 | |
| 27.00 | 4.63801 | | 29.00 | 4.66905 | |
| .05 | 4.63882 | | .05 | 4.66980 | |
| .10 | 4.63962 | | .10 | 4.67054 | |
| .15 | 4.64042 | | .15 | 4.67129 | |
| .20 | 4.64122 | | .20 | 4.67203 | |
| .25 | 4.64202 | | .25 | 4.67278 | |
| .30 | 4.64281 | | .30 | 4.67352 | |
| .35 | 4.64361 | | .35 | 4.67426 | |
| .40 | 4.64440 | | .40 | 4.67500 | |
| .45 | 4.64519 | | .45 | 4.67573 | |
| .50 | 4.64598 | | .50 | 4.67647 | |
| .55 | 4.64677 | | .55 | 4.67721 | |
| .60 | 4.64756 | | .60 | 4.67794 | |
| .65 | 4.64835 | | .65 | 4.67867 | |
| .70 | 4.64913 | | .70 | 4.67941 | |
| .75 | 4.64991 | | .75 | 4.68014 | |
| .80 | 4.65069 | | .80 | 4.68087 | |
| .85 | 4.65147 | | .85 | 4.68159 | |
| .90 | 4.65225 | | .90 | 4.68232 | |
| .95 | 4.65303 | | .95 | 4.68305 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 30.00 | 4.68377 | 14 | 32.00 | 4.71180 | 14 |
| .05 | 4.68449 | | .05 | 4.71248 | |
| .10 | 4.68522 | | .10 | 4.71315 | |
| .15 | 4.68594 | | .15 | 4.71383 | |
| .20 | 4.68666 | | .20 | 4.71451 | |
| .25 | 4.68737 | 13 | .25 | 4.71518 | 13 |
| .30 | 4.68809 | | .30 | 4.71585 | |
| .35 | 4.68881 | | .35 | 4.71652 | |
| .40 | 4.68952 | | .40 | 4.71719 | |
| .45 | 4.69024 | | .45 | 4.71787 | |
| .50 | 4.69095 | 12 | .50 | 4.71853 | 12 |
| .55 | 4.69166 | | .55 | 4.71920 | |
| .60 | 4.69237 | | .60 | 4.71987 | |
| .65 | 4.69308 | | .65 | 4.72053 | |
| .70 | 4.69379 | | .70 | 4.72120 | |
| .75 | 4.69449 | 11 | .75 | 4.72186 | 11 |
| .80 | 4.69520 | | .80 | 4.72252 | |
| .85 | 4.69590 | | .85 | 4.72319 | |
| .90 | 4.69661 | | .90 | 4.72385 | |
| .95 | 4.69731 | | .95 | 4.72451 | |
| 31.00 | 4.69801 | 10 | 33.00 | 4.72516 | 10 |
| .05 | 4.69871 | | .05 | 4.72582 | |
| .10 | 4.69941 | | .10 | 4.72648 | |
| .15 | 4.70011 | | .15 | 4.72713 | |
| .20 | 4.70081 | | .20 | 4.72779 | |
| .25 | 4.70150 | 9 | .25 | 4.72844 | 9 |
| .30 | 4.70219 | | .30 | 4.72909 | |
| .35 | 4.70289 | | .35 | 4.72975 | |
| .40 | 4.70358 | | .40 | 4.73040 | |
| .45 | 4.70427 | | .45 | 4.73105 | |
| .50 | 4.70496 | 8 | .50 | 4.73169 | 8 |
| .55 | 4.70565 | | .55 | 4.73234 | |
| .60 | 4.70634 | | .60 | 4.73299 | |
| .65 | 4.70702 | | .65 | 4.73363 | |
| .70 | 4.70771 | | .70 | 4.73428 | |
| .75 | 4.70839 | 7 | .75 | 4.73492 | 7 |
| .80 | 4.70908 | | .80 | 4.73557 | |
| .85 | 4.70976 | | .85 | 4.73621 | |
| .90 | 4.71044 | | .90 | 4.73685 | |
| .95 | 4.71112 | | .95 | 4.73749 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 34.00 | 4.73813 | 13 | 36.00 | 4.76295 | 12 |
| .05 | 4.73877 | | .05 | 4.76355 | |
| .10 | 4.73940 | | .10 | 4.76416 | |
| .15 | 4.74004 | | .15 | 4.76476 | |
| .20 | 4.74068 | | .20 | 4.76536 | |
| .25 | 4.74131 | | .25 | 4.76596 | |
| .30 | 4.74194 | | .30 | 4.76656 | |
| .35 | 4.74258 | | .35 | 4.76715 | |
| .40 | 4.74321 | | .40 | 4.76775 | |
| .45 | 4.74384 | | .45 | 4.76835 | |
| .50 | 4.74447 | 12 | .50 | 4.76894 | |
| .55 | 4.74510 | | .55 | 4.76954 | |
| .60 | 4.74573 | | .60 | 4.77013 | |
| .65 | 4.74635 | | .65 | 4.77072 | |
| .70 | 4.74698 | | .70 | 4.77132 | |
| .75 | 4.74761 | | .75 | 4.77191 | |
| .80 | 4.74823 | | .80 | 4.77250 | |
| .85 | 4.74885 | | .85 | 4.77309 | |
| .90 | 4.74947 | | .90 | 4.77368 | |
| .95 | 4.75010 | | .95 | 4.77426 | |
| 35.00 | 4.75072 | | 37.00 | 4.77485 | |
| .05 | 4.75134 | | .05 | 4.77544 | |
| .10 | 4.75196 | | .10 | 4.77602 | |
| .15 | 4.75257 | | .15 | 4.77661 | |
| .20 | 4.75319 | | .20 | 4.77719 | |
| .25 | 4.75381 | | .25 | 4.77778 | |
| .30 | 4.75443 | | .30 | 4.77836 | |
| .35 | 4.75504 | | .35 | 4.77894 | |
| .40 | 4.75565 | | .40 | 4.77952 | |
| .45 | 4.75627 | | .45 | 4.78010 | |
| .50 | 4.75688 | | .50 | 4.78068 | |
| .55 | 4.75749 | | .55 | 4.78126 | |
| .60 | 4.75810 | | .60 | 4.78184 | |
| .65 | 4.75871 | | .65 | 4.78241 | |
| .70 | 4.75932 | | .70 | 4.78299 | |
| .75 | 4.75993 | | .75 | 4.78357 | |
| .80 | 4.76053 | | .80 | 4.78414 | |
| .85 | 4.76114 | | .85 | 4.78472 | |
| .90 | 4.76174 | | .90 | 4.78529 | |
| .95 | 4.76235 | | .95 | 4.78586 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 38.00 | 4.78643 | 12 | 40.00 | 4.80871 | 11 |
| .05 | 4.78701 | 11 | .05 | 4.80925 | |
| .10 | 4.78758 | | .10 | 4.80979 | |
| .15 | 4.78815 | | .15 | 4.81034 | |
| .20 | 4.78871 | | .20 | 4.81088 | |
| .25 | 4.78928 | | .25 | 4.81142 | |
| .30 | 4.78985 | | .30 | 4.81195 | |
| .35 | 4.79041 | | .35 | 4.81249 | |
| .40 | 4.79098 | | .40 | 4.81303 | |
| .45 | 4.79155 | | .45 | 4.81357 | |
| .50 | 4.79211 | | .50 | 4.81411 | |
| .55 | 4.79267 | | .55 | 4.81464 | |
| .60 | 4.79324 | | .60 | 4.81518 | |
| .65 | 4.79380 | | .65 | 4.81571 | |
| .70 | 4.79436 | | .70 | 4.81624 | |
| .75 | 4.79592 | | .75 | 4.81677 | |
| .80 | 4.79548 | | .80 | 4.81731 | |
| .85 | 4.79604 | | .85 | 4.81784 | |
| .90 | 4.79660 | | .90 | 4.81837 | |
| .95 | 4.79716 | | .95 | 4.81890 | |
| 39.00 | 4.79771 | | 41.00 | 4.81943 | |
| .05 | 4.79727 | | .05 | 4.81996 | |
| .10 | 4.79883 | | .10 | 4.82049 | |
| .15 | 4.79938 | | .15 | 4.82102 | |
| .20 | 4.79994 | | .20 | 4.82155 | |
| .25 | 4.80049 | | .25 | 4.82207 | |
| .30 | 4.80104 | | .30 | 4.82260 | |
| .35 | 4.80159 | | .35 | 4.82313 | 10 |
| .40 | 4.80215 | | .40 | 4.82365 | |
| .45 | 4.80270 | | .45 | 4.82417 | |
| .50 | 4.80325 | | .50 | 4.82470 | |
| .55 | 4.80380 | | .55 | 4.82522 | |
| .60 | 4.80435 | | .60 | 4.82574 | |
| .65 | 4.80489 | | .65 | 4.82627 | |
| .70 | 4.80544 | | .70 | 4.82679 | |
| .75 | 4.80599 | | .75 | 4.82731 | |
| .80 | 4.80653 | | .80 | 4.82783 | |
| .85 | 4.80708 | | .85 | 4.82835 | |
| .90 | 4.80762 | | .90 | 4.82886 | |
| .95 | 4.80817 | | .95 | 4.82938 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 42.00 | 4.82990 | 10 | 44.00 | 4.85010 | 10 |
| .05 | 4.83042 | | .05 | 4.85060 | |
| .10 | 4.83093 | | .10 | 4.85109 | |
| .15 | 4.83145 | | .15 | 4.85158 | |
| .20 | 4.83196 | | .20 | 4.85207 | |
| .25 | 4.83248 | | .25 | 4.85256 | |
| .30 | 4.83299 | | .30 | 4.85305 | |
| .35 | 4.83350 | | .35 | 4.85354 | |
| .40 | 4.83402 | | .40 | 4.85403 | |
| .45 | 4.83453 | | .45 | 4.85452 | |
| .50 | 4.83504 | | .50 | 4.85501 | |
| .55 | 4.83555 | | .55 | 4.85550 | |
| .60 | 4.83606 | | .60 | 4.85599 | |
| .65 | 4.83657 | | .65 | 4.85647 | |
| .70 | 4.83708 | | .70 | 4.85696 | |
| .75 | 4.83759 | | .75 | 4.85744 | |
| .80 | 4.83809 | | .80 | 4.85793 | |
| .85 | 4.83860 | | .85 | 4.85841 | |
| .90 | 4.83911 | | .90 | 4.85890 | |
| .95 | 4.83961 | | .95 | 4.85938 | |
| 43.00 | 4.84012 | | 45.00 | 4.85986 | |
| .05 | 4.84062 | | .05 | 4.86035 | |
| .10 | 4.84113 | | .10 | 4.86083 | |
| .15 | 4.84163 | | .15 | 4.86131 | |
| .20 | 4.84213 | | .20 | 4.86179 | |
| .25 | 4.84264 | | .25 | 4.86227 | |
| .30 | 4.84314 | | .30 | 4.86275 | |
| .35 | 4.84364 | | .35 | 4.86323 | |
| .40 | 4.84414 | | .40 | 4.86371 | |
| .45 | 4.84464 | | .45 | 4.86418 | |
| .50 | 4.84514 | | .50 | 4.86466 | |
| .55 | 4.84564 | | .55 | 4.86514 | |
| .60 | 4.84614 | | .60 | 4.86561 | |
| .65 | 4.84663 | | .65 | 4.86609 | |
| .70 | 4.84713 | | .70 | 4.86657 | |
| .75 | 4.84763 | | .75 | 4.86704 | |
| .80 | 4.84812 | | .80 | 4.86751 | |
| .85 | 4.84862 | | .85 | 4.86799 | |
| .90 | 4.84911 | | .90 | 4.86846 | |
| .95 | 4.84961 | | .95 | 4.86894 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 46.00 | 4.86941 | 9 | 48.00 | 4.88789 | 9 |
| .05 | 4.86988 | | .05 | 4.88834 | |
| .10 | 4.87035 | | .10 | 4.88879 | |
| .15 | 4.87082 | | .15 | 4.88925 | |
| .20 | 4.87129 | | .20 | 4.88970 | |
| .25 | 4.87176 | | .25 | 4.89015 | |
| .30 | 4.87223 | | .30 | 4.89060 | |
| .35 | 4.87270 | | .35 | 4.89105 | |
| .40 | 4.87317 | | .40 | 4.89149 | |
| .45 | 4.87364 | | .45 | 4.89194 | |
| .50 | 4.87410 | | .50 | 4.89239 | |
| .55 | 4.87457 | | .55 | 4.89284 | |
| .60 | 4.87504 | | .60 | 4.89329 | |
| .65 | 4.87550 | | .65 | 4.89373 | |
| .70 | 4.87597 | | .70 | 4.89418 | |
| .75 | 4.87643 | | .75 | 4.89462 | |
| .80 | 4.87690 | | .80 | 4.89507 | |
| .85 | 4.87736 | | .85 | 4.89551 | |
| .90 | 4.87782 | | .90 | 4.89596 | |
| .95 | 4.87829 | | .95 | 4.89640 | |
| 47.00 | 4.87875 | | 49.00 | 4.89685 | |
| .05 | 4.87921 | | .05 | 4.89729 | |
| .10 | 4.87967 | | .10 | 4.89773 | |
| .15 | 4.88013 | | .15 | 4.89817 | |
| .20 | 4.88059 | | .20 | 4.89861 | |
| .25 | 4.88105 | | .25 | 4.89906 | |
| .30 | 4.88151 | | .30 | 4.89950 | |
| .35 | 4.88197 | | .35 | 4.89994 | |
| .40 | 4.88243 | | .40 | 4.90038 | |
| .45 | 4.88289 | | .45 | 4.90082 | |
| .50 | 4.88334 | | .50 | 4.90125 | |
| .55 | 4.88380 | | .55 | 4.90169 | |
| .60 | 4.88326 | | .60 | 4.90213 | |
| .65 | 4.88471 | | .65 | 4.90257 | |
| .70 | 4.88517 | | .70 | 4.90301 | |
| .75 | 4.88562 | | .75 | 4.90344 | |
| .80 | 4.88608 | | .80 | 4.90388 | |
| .85 | 4.88653 | | .85 | 4.90431 | |
| .90 | 4.88699 | | .90 | 4.90475 | |
| .95 | 4.88744 | | .95 | 4.90519 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 50.00 | 4.90562 | 9 | 52.00 | 4.92265 | 8 |
| .05 | 4.90605 | | .05 | 4.92307 | |
| .10 | 4.90649 | | .10 | 4.92349 | |
| .15 | 4.90692 | | .15 | 4.92390 | |
| .20 | 4.90735 | | .20 | 4.92432 | |
| .25 | 4.90779 | | .25 | 4.92474 | |
| .30 | 4.90822 | | .30 | 4.92515 | |
| .35 | 4.90865 | | .35 | 4.92557 | |
| .40 | 4.90908 | | .40 | 4.92598 | |
| .45 | 4.90951 | | .45 | 4.92639 | |
| .50 | 4.90994 | | .50 | 4.92681 | |
| .55 | 4.91037 | | .55 | 4.92722 | |
| .60 | 4.91080 | | .60 | 4.92764 | |
| .65 | 4.91123 | | .65 | 4.92805 | |
| .70 | 4.91166 | | .70 | 4.92846 | |
| .75 | 4.91209 | | .75 | 4.92887 | |
| .80 | 4.91251 | | .80 | 4.92928 | |
| .85 | 4.91294 | | .85 | 4.92969 | |
| .90 | 4.91337 | | .90 | 4.93011 | |
| .95 | 4.91379 | | .95 | 4.93052 | |
| 51.00 | 4.91422 | 8 | 53.00 | 4.93093 | |
| .05 | 4.91465 | | .05 | 4.93133 | |
| .10 | 4.91507 | | .10 | 4.93175 | |
| .15 | 4.91550 | | .15 | 4.93215 | |
| .20 | 4.91592 | | .20 | 4.93256 | |
| .25 | 4.91634 | | .25 | 4.93297 | |
| .30 | 4.91677 | | .30 | 4.93338 | |
| .35 | 4.91719 | | .35 | 4.93378 | |
| .40 | 4.91761 | | .40 | 4.93419 | |
| .45 | 4.91803 | | .45 | 4.93460 | |
| .50 | 4.91846 | | .50 | 4.93500 | |
| .55 | 4.91888 | | .55 | 4.93541 | |
| .60 | 4.91930 | | .60 | 4.93581 | |
| .65 | 4.91972 | | .65 | 4.93622 | |
| .70 | 4.92014 | | .70 | 4.93662 | |
| .75 | 4.92056 | | .75 | 4.93703 | |
| .80 | 4.92098 | | .80 | 4.93743 | |
| .85 | 4.92140 | | .85 | 4.93784 | |
| .90 | 4.92182 | | .90 | 4.93824 | |
| .95 | 4.92224 | | .95 | 4.93864 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 54.00 | 4.93904 | 8 | 56.00 | 4.95484 | 8 |
| .05 | 4.93945 | | .05 | 4.95523 | |
| .10 | 4.93985 | | .10 | 4.95561 | |
| .15 | 4.94025 | | .15 | 4.95600 | |
| .20 | 4.94065 | | .20 | 4.95639 | |
| .25 | 4.94105 | | .25 | 4.95677 | |
| .30 | 4.94145 | | .30 | 4.95716 | |
| .35 | 4.94185 | | .35 | 4.95754 | |
| .40 | 4.94225 | | .40 | 4.95793 | |
| .45 | 4.94265 | | .45 | 4.95831 | |
| .50 | 4.94305 | | .50 | 4.95870 | |
| .55 | 4.94345 | | .55 | 4.95908 | |
| .60 | 4.94384 | | .60 | 4.95947 | |
| .65 | 4.94424 | | .65 | 4.95985 | |
| .70 | 4.94464 | | .70 | 4.96023 | |
| .75 | 4.94503 | | .75 | 4.96062 | |
| .80 | 4.94543 | | .80 | 4.96100 | |
| .85 | 4.94583 | | .85 | 4.96138 | |
| .90 | 4.94622 | | .90 | 4.96176 | |
| .95 | 4.94662 | | .95 | 4.96214 | |
| 55.00 | 4.94701 | 7 | 57.00 | 4.96253 | 7 |
| .05 | 4.94741 | | .05 | 4.96291 | |
| .10 | 4.94780 | | .10 | 4.96329 | |
| .15 | 4.94820 | | .15 | 4.96367 | |
| .20 | 4.94859 | | .20 | 4.96405 | |
| .25 | 4.94898 | | .25 | 4.96443 | |
| .30 | 4.94937 | | .30 | 4.96481 | |
| .35 | 4.94977 | | .35 | 4.96518 | |
| .40 | 4.95016 | | .40 | 4.96556 | |
| .45 | 4.95055 | | .45 | 4.96594 | |
| .50 | 4.95094 | | .50 | 4.96632 | |
| .55 | 4.95133 | | .55 | 4.96669 | |
| .60 | 4.95172 | | .60 | 4.96707 | |
| .65 | 4.95212 | | .65 | 4.96745 | |
| .70 | 4.95251 | | .70 | 4.96783 | |
| .75 | 4.95289 | | .75 | 4.96820 | |
| .80 | 4.95328 | | .80 | 4.96858 | |
| .85 | 4.95367 | | .85 | 4.96895 | |
| .90 | 4.95406 | | .90 | 4.96933 | |
| .95 | 4.95445 | | .95 | 4.96970 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 58.00 | 4. 97008 | 7 | 60.00 | 4. 98480 | 7 |
| .05 | 4. 97045 | | .05 | 4. 98516 | |
| .10 | 4. 97083 | | .10 | 4. 98552 | |
| .15 | 4. 97120 | | .15 | 4. 98589 | |
| .20 | 4. 97157 | | .20 | 4. 98625 | |
| .25 | 4. 97195 | | .25 | 4. 98661 | |
| .30 | 4. 97232 | | .30 | 4. 98697 | |
| .35 | 4. 97269 | | .35 | 4. 98733 | |
| .40 | 4. 97306 | | .40 | 4. 98769 | |
| .45 | 4. 97343 | | .45 | 4. 98805 | |
| .50 | 4. 97381 | | .50 | 4. 98841 | |
| .55 | 4. 97418 | | .55 | 4. 98876 | |
| .60 | 4. 97455 | | .60 | 4. 98912 | |
| .65 | 4. 97492 | | .65 | 4. 98948 | |
| .70 | 4. 97529 | | .70 | 4. 98984 | |
| .75 | 4. 97566 | | .75 | 4. 99020 | |
| .80 | 4. 97603 | | .80 | 4. 99055 | |
| .85 | 4. 97640 | | .85 | 4. 99091 | |
| .90 | 4. 97677 | | .90 | 4. 99127 | |
| .95 | 4. 97713 | | .95 | 4. 99162 | |
| 59.00 | 4. 97750 | | 61.00 | 4. 99198 | |
| .05 | 4. 97787 | | .05 | 4. 99234 | |
| .10 | 4. 97824 | | .10 | 4. 99269 | |
| .15 | 4. 97861 | | .15 | 4. 99305 | |
| .20 | 4. 97897 | | .20 | 4. 99340 | |
| .25 | 4. 97934 | | .25 | 4. 99376 | |
| .30 | 4. 97971 | | .30 | 4. 99411 | |
| .35 | 4. 98007 | | .35 | 4. 99447 | |
| .40 | 4. 98044 | | .40 | 4. 99482 | |
| .45 | 4. 98080 | | .45 | 4. 99517 | |
| .50 | 4. 98117 | | .50 | 4. 99553 | |
| .55 | 4. 98153 | | .55 | 4. 99588 | |
| .60 | 4. 98190 | | .60 | 4. 99623 | |
| .65 | 4. 98226 | | .65 | 4. 99658 | |
| .70 | 4. 98262 | | .70 | 4. 99693 | |
| .75 | 4. 98299 | | .75 | 4. 99729 | |
| .80 | 4. 98335 | | .80 | 4. 99764 | |
| .85 | 4. 98371 | | .85 | 4. 99799 | |
| .90 | 4. 98408 | | .90 | 4. 99834 | |
| .95 | 4. 98444 | | .95 | 4. 99869 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 62.00 | 4.99904 | 7 | 64.00 | 5.01283 | 7 |
| .05 | 4.99939 | | .05 | 5.01317 | |
| .10 | 4.99974 | | .10 | 5.01351 | |
| .15 | 5.00009 | | .15 | 5.01385 | |
| .20 | 5.00044 | | .20 | 5.01419 | |
| .25 | 5.00079 | | .25 | 5.01452 | |
| .30 | 5.00114 | | .30 | 5.01486 | |
| .35 | 5.00149 | | .35 | 5.01520 | |
| .40 | 5.00183 | | .40 | 5.01554 | |
| .45 | 5.00218 | | .45 | 5.01587 | |
| .50 | 5.00253 | | .50 | 5.01621 | |
| .55 | 5.00288 | | .55 | 5.01655 | |
| .60 | 5.00322 | | .60 | 5.01688 | |
| .65 | 5.00357 | | .65 | 5.01722 | |
| .70 | 5.00392 | | .70 | 5.01755 | |
| .75 | 5.00426 | | .75 | 5.01789 | |
| .80 | 5.00461 | | .80 | 5.01823 | |
| .85 | 5.00495 | | .85 | 5.01856 | |
| .90 | 5.00530 | | .90 | 5.01889 | |
| .95 | 5.00565 | | .95 | 5.01923 | |
| 63.00 | 5.00599 | | 65.00 | 5.01956 | |
| .05 | 5.00633 | | .05 | 5.01990 | |
| .10 | 5.00668 | | .10 | 5.02023 | |
| .15 | 5.00702 | | .15 | 5.02056 | |
| .20 | 5.00737 | | .20 | 5.02090 | |
| .25 | 5.00771 | | .25 | 5.02123 | |
| .30 | 5.00805 | | .30 | 5.02156 | |
| .35 | 5.00840 | | .35 | 5.02190 | |
| .40 | 5.00874 | | .40 | 5.02223 | |
| .45 | 5.00908 | | .45 | 5.02256 | |
| .50 | 5.00942 | | .50 | 5.02289 | |
| .55 | 5.00977 | | .55 | 5.02322 | |
| .60 | 5.01011 | | .60 | 5.02355 | |
| .65 | 5.01045 | | .65 | 5.02389 | |
| .70 | 5.01079 | | .70 | 5.02421 | |
| .75 | 5.01113 | | .75 | 5.02455 | |
| .80 | 5.01147 | | .80 | 5.02488 | |
| .85 | 5.01181 | | .85 | 5.02521 | |
| .90 | 5.01215 | | .90 | 5.02554 | |
| .95 | 5.01249 | | .95 | 5.02587 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 66.00 | 5.02619 | 7 | 68.00 | 5.03916 | 6 |
| .05 | 5.02652 | | .05 | 5.03948 | |
| .10 | 5.02685 | | .10 | 5.03980 | |
| .15 | 5.02718 | | .15 | 5.04012 | |
| .20 | 5.02751 | | .20 | 5.04043 | |
| .25 | 5.02784 | | .25 | 5.04075 | |
| .30 | 5.02816 | | .30 | 5.04107 | |
| .35 | 5.02849 | | .35 | 5.04139 | |
| .40 | 5.02882 | | .40 | 5.04171 | |
| .45 | 5.02915 | | .45 | 5.04202 | |
| .50 | 5.02947 | | .50 | 5.04234 | |
| .55 | 5.02980 | | .55 | 5.04266 | |
| .60 | 5.03012 | | .60 | 5.04297 | |
| .65 | 5.03045 | | .65 | 5.04329 | |
| .70 | 5.03078 | | .70 | 5.04361 | |
| .75 | 5.03110 | 6 | .75 | 5.04392 | |
| .80 | 5.03143 | | .80 | 5.04424 | |
| .85 | 5.03175 | | .85 | 5.04455 | |
| .90 | 5.03208 | | .90 | 5.04487 | |
| .95 | 5.03241 | | .95 | 5.04518 | |
| 67.00 | 5.03273 | | 69.00 | 5.04550 | |
| .05 | 5.03305 | | .05 | 5.04581 | |
| .10 | 5.03337 | | .10 | 5.04613 | |
| .15 | 5.03370 | | .15 | 5.04644 | |
| .20 | 5.03402 | | .20 | 5.04676 | |
| .25 | 5.03434 | | .25 | 5.04707 | |
| .30 | 5.03467 | | .30 | 5.04738 | |
| .35 | 5.03499 | | .35 | 5.04770 | |
| .40 | 5.03531 | | .40 | 5.04801 | |
| .45 | 5.03563 | | .45 | 5.04832 | |
| .50 | 5.03595 | | .50 | 5.04863 | |
| .55 | 5.03627 | | .55 | 5.04895 | |
| .60 | 5.03660 | | .60 | 5.04926 | |
| .65 | 5.03692 | | .65 | 5.04957 | |
| .70 | 5.03724 | | .70 | 5.04988 | |
| .75 | 5.03756 | | .75 | 5.05019 | |
| .80 | 5.03788 | | .80 | 5.05051 | |
| .85 | 5.03820 | | .85 | 5.05082 | |
| .90 | 5.03852 | | .90 | 5.05113 | |
| .95 | 5.03884 | | .95 | 5.05144 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 70.00 | 5.05175 | 6 | 72.00 | 5.06398 | 6 |
| .05 | 5.05206 | | .05 | 5.06428 | |
| .10 | 5.05237 | | .10 | 5.06459 | |
| .15 | 5.05268 | | .15 | 5.06489 | |
| .20 | 5.05299 | | .20 | 5.06519 | |
| .25 | 5.05330 | | .25 | 5.06549 | |
| .30 | 5.05361 | | .30 | 5.06579 | |
| .35 | 5.05391 | | .35 | 5.06609 | |
| .40 | 5.05422 | | .40 | 5.06639 | |
| .45 | 5.05453 | | .45 | 5.06669 | |
| .50 | 5.05484 | | .50 | 5.06699 | |
| .55 | 5.05515 | | .55 | 5.06729 | |
| .60 | 5.05545 | | .60 | 5.06759 | |
| .65 | 5.05576 | | .65 | 5.06789 | |
| .70 | 5.05607 | | .70 | 5.06818 | |
| .75 | 5.05538 | | .75 | 5.06848 | |
| .80 | 5.05668 | | .80 | 5.06878 | |
| .85 | 5.05699 | | .85 | 5.06908 | |
| .90 | 5.05730 | | .90 | 5.06938 | |
| .95 | 5.05760 | | .95 | 5.06967 | |
| 71.00 | 5.05791 | | 73.00 | 5.06997 | |
| .05 | 5.05821 | | .05 | 5.07027 | |
| .10 | 5.05852 | | .10 | 5.07057 | |
| .15 | 5.05883 | | .15 | 5.07086 | |
| .20 | 5.05913 | | .20 | 5.07116 | |
| .25 | 5.05943 | | .25 | 5.07146 | |
| .30 | 5.05974 | | .30 | 5.07175 | |
| .35 | 5.06004 | | .35 | 5.07205 | |
| .40 | 5.06035 | | .40 | 5.07235 | |
| .45 | 5.06065 | | .45 | 5.07264 | |
| .50 | 5.06096 | | .50 | 5.07294 | |
| .55 | 5.06126 | | .55 | 5.07323 | |
| .60 | 5.06156 | | .60 | 5.07353 | |
| .65 | 5.06187 | | .65 | 5.07382 | |
| .70 | 5.06217 | | .70 | 5.07412 | |
| .75 | 5.06247 | | .75 | 5.07441 | |
| .80 | 5.06277 | | .80 | 5.07471 | |
| .85 | 5.06308 | | .85 | 5.07500 | |
| .90 | 5.06338 | | .90 | 5.07529 | |
| .95 | 5.06368 | | .95 | 5.07559 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 74.00 | 5.07588 | 6 | 76.00 | 5.08746 | 6 |
| .05 | 5.07617 | | .05 | 5.08775 | |
| .10 | 5.07647 | | .10 | 5.08803 | |
| .15 | 5.07676 | | .15 | 5.08832 | |
| .20 | 5.07705 | | .20 | 5.08861 | |
| .25 | 5.07735 | | .25 | 5.08889 | |
| .30 | 5.07764 | | .30 | 5.08917 | |
| .35 | 5.07793 | | .35 | 5.08946 | |
| .40 | 5.07822 | | .40 | 5.08974 | |
| .45 | 5.07851 | | .45 | 5.09003 | |
| .50 | 5.07881 | | .50 | 5.09031 | |
| .55 | 5.07910 | | .55 | 5.09059 | |
| .60 | 5.07939 | | .60 | 5.09088 | |
| .65 | 5.07968 | | .65 | 5.09117 | |
| .70 | 5.07997 | | .70 | 5.09145 | |
| .75 | 5.08026 | | .75 | 5.09173 | |
| .80 | 5.08055 | | .80 | 5.09201 | |
| .85 | 5.08084 | | .85 | 5.09229 | |
| .90 | 5.08113 | | .90 | 5.09258 | |
| .95 | 5.08142 | | .95 | 5.09286 | |
| 75.00 | 5.08171 | | 77.00 | 5.09314 | |
| .05 | 5.08200 | | .05 | 5.09342 | |
| .10 | 5.08229 | | .10 | 5.09370 | |
| .15 | 5.08258 | | .15 | 5.09399 | |
| .20 | 5.08287 | | .20 | 5.09427 | |
| .25 | 5.08316 | | .25 | 5.09455 | |
| .30 | 5.08345 | | .30 | 5.09483 | |
| .35 | 5.08373 | | .35 | 5.09511 | |
| .40 | 5.08402 | | .40 | 5.09539 | |
| .45 | 5.08431 | | .45 | 5.09567 | |
| .50 | 5.08460 | | .50 | 5.09595 | |
| .55 | 5.08488 | | .55 | 5.09623 | |
| .60 | 5.08517 | | .60 | 5.09651 | |
| .65 | 5.08546 | | .65 | 5.09679 | |
| .70 | 5.08575 | | .70 | 5.09707 | |
| .75 | 5.08603 | | .75 | 5.09735 | |
| .80 | 5.08632 | | .80 | 5.09763 | |
| .85 | 5.08661 | | .85 | 5.09791 | |
| .90 | 5.08689 | | .90 | 5.09819 | |
| .95 | 5.08718 | | .95 | 5.09847 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 78.00 | 5.09875 | 6 | 80.00 | 5.10974 | 5 |
| .05 | 5.09902 | | .05 | 5.11001 | |
| .10 | 5.09930 | | .10 | 5.11028 | |
| .15 | 5.09958 | | .15 | 5.11055 | |
| .20 | 5.09986 | | .20 | 5.11082 | |
| .25 | 5.10013 | | .25 | 5.11109 | |
| .30 | 5.10041 | | .30 | 5.11137 | |
| .35 | 5.10069 | | .35 | 5.11164 | |
| .40 | 5.10097 | | .40 | 5.11191 | |
| .45 | 5.10124 | | .45 | 5.11218 | |
| .50 | 5.10152 | | .50 | 5.11245 | |
| .55 | 5.10180 | | .55 | 5.11272 | |
| .60 | 5.10207 | | .60 | 5.11299 | |
| .65 | 5.10235 | | .65 | 5.11325 | |
| .70 | 5.10263 | | .70 | 5.11352 | |
| .75 | 5.10290 | 5 | .75 | 5.11379 | |
| .80 | 5.10318 | | .80 | 5.11406 | |
| .85 | 5.10345 | | .85 | 5.11433 | |
| .90 | 5.10373 | | .90 | 5.11460 | |
| .95 | 5.10400 | | .95 | 5.11487 | |
| 79.00 | 5.10428 | | 81.00 | 5.11513 | |
| .05 | 5.10455 | | .05 | 5.11540 | |
| .10 | 5.10483 | | .10 | 5.11567 | |
| .15 | 5.10510 | | .15 | 5.11594 | |
| .20 | 5.10537 | | .20 | 5.11621 | |
| .25 | 5.10565 | | .25 | 5.11647 | |
| .30 | 5.10592 | | .30 | 5.11674 | |
| .35 | 5.10620 | | .35 | 5.11701 | |
| .40 | 5.10647 | | .40 | 5.11727 | |
| .45 | 5.10674 | | .45 | 5.11754 | |
| .50 | 5.10702 | | .50 | 5.11781 | |
| .55 | 5.10729 | | .55 | 5.11807 | |
| .60 | 5.10756 | | .60 | 5.11834 | |
| .65 | 5.10784 | | .65 | 5.11861 | |
| .70 | 5.10811 | | .70 | 5.11887 | |
| .75 | 5.10838 | | .75 | 5.11913 | |
| .80 | 5.10865 | | .80 | 5.11940 | |
| .85 | 5.10893 | | .85 | 5.11967 | |
| .90 | 5.10920 | | .90 | 5.11993 | |
| .95 | 5.10947 | | .95 | 5.12020 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 82.00 | 5.12046 | 5 | 84.00 | 5.13093 | 5 |
| .05 | 5.12073 | | .05 | 5.13119 | |
| .10 | 5.12099 | | .10 | 5.13145 | |
| .15 | 5.12126 | | .15 | 5.13170 | |
| .20 | 5.12152 | | .20 | 5.13196 | |
| .25 | 5.12179 | | .25 | 5.13222 | |
| .30 | 5.12205 | | .30 | 5.13248 | |
| .35 | 5.12231 | | .35 | 5.13273 | |
| .40 | 5.12258 | | .40 | 5.13299 | |
| .45 | 5.12284 | | .45 | 5.13325 | |
| .50 | 5.12310 | | .50 | 5.13351 | |
| .55 | 5.12337 | | .55 | 5.13376 | |
| .60 | 5.12363 | | .60 | 5.13402 | |
| .65 | 5.12389 | | .65 | 5.13428 | |
| .70 | 5.12416 | | .70 | 5.13453 | |
| .75 | 5.12442 | 5 | .75 | 5.13479 | 5 |
| .80 | 5.12468 | | .80 | 5.13505 | |
| .85 | 5.12494 | | .85 | 5.13530 | |
| .90 | 5.12521 | | .90 | 5.13556 | |
| .95 | 5.12547 | | .95 | 5.13581 | |
| 83.00 | 5.12573 | | 85.00 | 5.13607 | |
| .05 | 5.12599 | | .05 | 5.13632 | |
| .10 | 5.12625 | | .10 | 5.13658 | |
| .15 | 5.12651 | | .15 | 5.13683 | |
| .20 | 5.12677 | | .20 | 5.13709 | |
| .25 | 5.12703 | | .25 | 5.13734 | |
| .30 | 5.12729 | | .30 | 5.13760 | |
| .35 | 5.12756 | | .35 | 5.13785 | |
| .40 | 5.12782 | | .40 | 5.13811 | |
| .45 | 5.12808 | | .45 | 5.13836 | |
| .50 | 5.12834 | | .50 | 5.13862 | |
| .55 | 5.12860 | | .55 | 5.13887 | |
| .60 | 5.12886 | | .60 | 5.13912 | |
| .65 | 5.12912 | | .65 | 5.13938 | |
| .70 | 5.12937 | | .70 | 5.13963 | |
| .75 | 5.12963 | 5 | .75 | 5.13988 | 5 |
| .80 | 5.12989 | | .80 | 5.14014 | |
| .85 | 5.13015 | | .85 | 5.14039 | |
| .90 | 5.13041 | | .90 | 5.14064 | |
| .95 | 5.13067 | | .95 | 5.14090 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 86.00 | 5.14115 | 5 | 88.00 | 5.15113 | 5 |
| .05 | 5.14140 | | .05 | 5.15138 | |
| .10 | 5.14165 | | .10 | 5.15163 | |
| .15 | 5.14191 | | .15 | 5.15187 | |
| .20 | 5.14216 | | .20 | 5.15212 | |
| .25 | 5.14241 | | .25 | 5.15237 | |
| .30 | 5.14266 | | .30 | 5.15261 | |
| .35 | 5.14291 | | .35 | 5.15286 | |
| .40 | 5.14316 | | .40 | 5.15310 | |
| .45 | 5.14341 | | .45 | 5.15335 | |
| .50 | 5.14367 | | .50 | 5.15359 | |
| .55 | 5.14392 | | .55 | 5.15384 | |
| .60 | 5.14417 | | .60 | 5.15408 | |
| .65 | 5.14442 | | .65 | 5.15433 | |
| .70 | 5.14467 | | .70 | 5.15457 | |
| .75 | 5.14492 | | .75 | 5.15482 | |
| .80 | 5.14517 | | .80 | 5.15506 | |
| .85 | 5.14542 | | .85 | 5.15531 | |
| .90 | 5.14567 | | .90 | 5.15555 | |
| .95 | 5.14592 | | .95 | 5.15580 | |
| 87.00 | 5.14617 | | 89.00 | 5.15604 | |
| .05 | 5.14642 | | .05 | 5.15628 | |
| .10 | 5.14667 | | .10 | 5.15653 | |
| .15 | 5.14692 | | .15 | 5.15677 | |
| .20 | 5.14717 | | .20 | 5.15701 | |
| .25 | 5.14741 | | .25 | 5.15726 | |
| .30 | 5.14766 | | .30 | 5.15750 | |
| .35 | 5.14791 | | .35 | 5.15775 | |
| .40 | 5.14816 | | .40 | 5.15799 | |
| .45 | 5.14841 | | .45 | 5.15823 | |
| .50 | 5.14866 | | .50 | 5.15847 | |
| .55 | 5.14891 | | .55 | 5.15872 | |
| .60 | 5.14915 | | .60 | 5.15896 | |
| .65 | 5.14940 | | .65 | 5.15920 | |
| .70 | 5.14965 | | .70 | 5.15944 | |
| .75 | 5.14990 | | .75 | 5.15968 | |
| .80 | 5.15014 | | .80 | 5.15993 | |
| .85 | 5.15039 | | .85 | 5.16017 | |
| .90 | 5.15064 | | .90 | 5.16041 | |
| .95 | 5.15089 | | .95 | 5.16065 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 90.00 | 5.16089 | 5 | 92.00 | 5.17044 | 5 |
| .05 | 5.16113 | | .05 | 5.17067 | |
| .10 | 5.16137 | | .10 | 5.17091 | |
| .15 | 5.16162 | | .15 | 5.17115 | |
| .20 | 5.16186 | | .20 | 5.17138 | |
| .25 | 5.16210 | | .25 | 5.17162 | |
| .30 | 5.16234 | | .30 | 5.17285 | |
| .35 | 5.16258 | | .35 | 5.17209 | |
| .40 | 5.16282 | | .40 | 5.17232 | |
| .45 | 5.16306 | | .45 | 5.17256 | |
| .50 | 5.16330 | | .50 | 5.17279 | |
| .55 | 5.16354 | | .55 | 5.17303 | |
| .60 | 5.16378 | | .60 | 5.17326 | |
| .65 | 5.16402 | | .65 | 5.17349 | |
| .70 | 5.16426 | | .70 | 5.17373 | |
| .75 | 5.16450 | | .75 | 5.17396 | |
| .80 | 5.16474 | | .80 | 5.17420 | |
| .85 | 5.16497 | | .85 | 5.17443 | |
| .90 | 5.16521 | | .90 | 5.17467 | |
| .95 | 5.16545 | | .95 | 5.17490 | |
| 91.00 | 5.16569 | | 93.00 | 5.17513 | |
| .05 | 5.16593 | | .05 | 5.17537 | |
| .10 | 5.16617 | | .10 | 5.17560 | |
| .15 | 5.16641 | | .15 | 5.17583 | |
| .20 | 5.16665 | | .20 | 5.17607 | |
| .25 | 5.16688 | | .25 | 5.17630 | |
| .30 | 5.16712 | | .30 | 5.17653 | |
| .35 | 5.16736 | | .35 | 5.17676 | |
| .40 | 5.16760 | | .40 | 5.17700 | |
| .45 | 5.16783 | | .45 | 5.17723 | |
| .50 | 5.16807 | | .50 | 5.17746 | |
| .55 | 5.16831 | | .55 | 5.17769 | |
| .60 | 5.16855 | | .60 | 5.17793 | |
| .65 | 5.16878 | | .65 | 5.17816 | |
| .70 | 5.16902 | | .70 | 5.17839 | |
| .75 | 5.16926 | | .75 | 5.17862 | |
| .80 | 5.16949 | | .80 | 5.17885 | |
| .85 | 5.16973 | | .85 | 5.17908 | |
| .90 | 5.16997 | | .90 | 5.17932 | |
| .95 | 5.17020 | | .95 | 5.17955 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 94.00 | 5.17978 | 5 | 96.00 | 5.18892 | 5 |
| .05 | 5.18001 | | .05 | 5.18915 | |
| .10 | 5.18024 | | .10 | 5.18937 | |
| .15 | 5.18047 | | .15 | 5.18960 | |
| .20 | 5.18170 | | .20 | 5.18983 | |
| .25 | 5.18193 | | .25 | 5.19005 | |
| .30 | 5.18116 | | .30 | 5.19028 | |
| .35 | 5.18139 | | .35 | 5.19050 | |
| .40 | 5.18162 | | .40 | 5.19073 | |
| .45 | 5.18185 | | .45 | 5.19095 | |
| .50 | 5.18208 | | .50 | 5.19118 | |
| .55 | 5.18231 | | .55 | 5.19140 | |
| .60 | 5.18254 | | .60 | 5.19163 | |
| .65 | 5.18277 | | .65 | 5.19185 | |
| .70 | 5.18300 | | .70 | 5.19208 | |
| .75 | 5.18323 | | .75 | 5.19230 | |
| .80 | 5.18346 | | .80 | 5.19253 | |
| .85 | 5.18369 | | .85 | 5.19275 | |
| .90 | 5.18392 | | .90 | 5.19297 | |
| .95 | 5.18415 | | .95 | 5.19320 | |
| 95.00 | 5.18437 | 4 | 97.00 | 5.19342 | 4 |
| .05 | 5.18460 | | .05 | 5.19365 | |
| .10 | 5.18483 | | .10 | 5.19387 | |
| .15 | 5.18506 | | .15 | 5.19409 | |
| .20 | 5.18529 | | .20 | 5.19432 | |
| .25 | 5.18551 | | .25 | 5.19454 | |
| .30 | 5.18574 | | .30 | 5.19476 | |
| .35 | 5.18597 | | .35 | 5.19499 | |
| .40 | 5.18620 | | .40 | 5.19521 | |
| .45 | 5.18643 | | .45 | 5.19543 | |
| .50 | 5.18665 | | .50 | 5.19565 | |
| .55 | 5.18688 | | .55 | 5.19588 | |
| .60 | 5.18711 | | .60 | 5.19610 | |
| .65 | 5.18733 | | .65 | 5.19632 | |
| .70 | 5.18756 | | .70 | 5.19655 | |
| .75 | 5.18779 | | .75 | 5.19677 | |
| .80 | 5.18802 | | .80 | 5.19699 | |
| .85 | 5.18824 | | .85 | 5.19721 | |
| .90 | 5.18847 | | .90 | 5.19743 | |
| .95 | 5.18869 | | .95 | 5.19765 | |

*Table for Interconversion of Miles and Logarithms
of Meters.*

| Miles. | Log. meters. | Diff. log. .01 mile. | Miles. | Log. meters. | Diff. log. .01 mile. |
|--------|--------------|-------------------------|--------|--------------|-------------------------|
| 98.00 | 5.19788 | 4 | 99.00 | 5.20229 | 4 |
| .05 | 5.19810 | | .05 | 5.20250 | |
| .10 | 5.19832 | | .10 | 5.20272 | |
| .15 | 5.19854 | | .15 | 5.20294 | |
| .20 | 5.19876 | | .20 | 5.20316 | |
| .25 | 5.19898 | | .25 | 5.20338 | |
| .30 | 5.19920 | | .30 | 5.20360 | |
| .35 | 5.19942 | | .35 | 5.20382 | |
| .40 | 5.19965 | | .40 | 5.20404 | |
| .45 | 5.19987 | | .45 | 5.20425 | |
| .50 | 5.20009 | | .50 | 5.20447 | |
| .55 | 5.20031 | | .55 | 5.20469 | |
| .60 | 5.20053 | | .60 | 5.20491 | |
| .65 | 5.20075 | | .65 | 5.20513 | |
| .70 | 5.20097 | | .70 | 5.20535 | |
| .75 | 5.20119 | | .75 | 5.20556 | |
| .80 | 5.20141 | | .80 | 5.20578 | |
| .85 | 5.20163 | | .85 | 5.20600 | |
| .90 | 5.20185 | | .90 | 5.20621 | |
| .95 | 5.20207 | | .95 | 5.20643 | |