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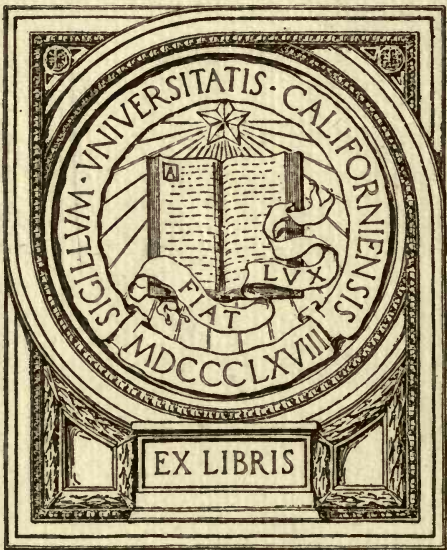
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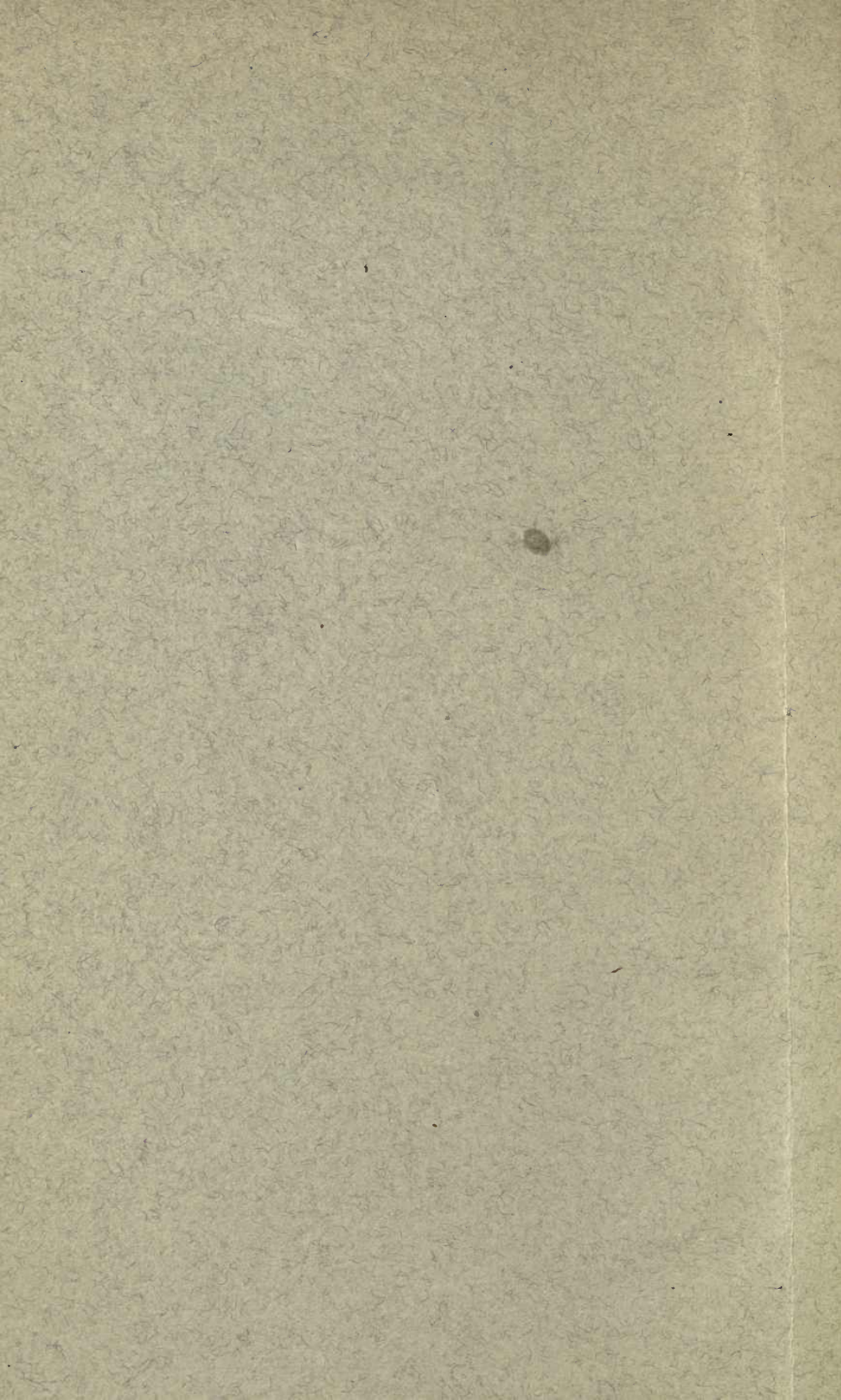
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DEPARTMENT OF THE INTERIOR.
UNITED STATES GEOLOGICAL SURVEY,
CHARLES D. WALCOTT, DIRECTOR.

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

1900.



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

Gannett, S.S.

TABLE FOR INTERCONVERSION OF MILES AND
LOGARITHMS OF METERS,
FOR
DISTANCES FROM 10 TO 100 MILES.
—
1900.



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TABLE FOR THE INTERCONVERSION OF MILES AND LOGARITHMS OF METERS.

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	
.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	20
.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		.25	4.53401	
.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	
.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		.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	17
.95	4.56743		.95	4.60372	
23.00	4.56838		25.00	4.60459	
.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	18	.40	4.61148	
.45	4.57679		.45	4.61234	
.50	4.57772		.50	4.61319	
.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		.25	4.65767	
.30	4.62661	16	.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	13
.25	4.68737		.25	4.71518	
.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		.50	4.71853	
.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		.75	4.72186	
.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		33.00	4.72516	
.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		.25	4.72844	
.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		.50	4.73169	
.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		.75	4.73492	
.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		.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	12	.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		57.00	4.96253	
.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	7

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	.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	6	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	5.05568		.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		.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	5	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		.75	5.13479	
.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		.75	5.13988	
.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	5.15137		.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	6.16569		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	5.19723	
.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		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	





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