

Blog Entry © Wednesday, January 14, 2026, by James Pate Williams, Jr. Curvature of the Earth Table

Reference: [OP-770 Page 1 Range Tables for 16"/50 caliber gun](#)

```
Rebuild started at 1:01 PM...
1>----- Rebuild All started: Project: CurvatureOfTheEarth,
Configuration: Release x64 -----
1>pch.cpp
1>CurvatureOfTheEarth.cpp
1>GreatCircleDistance.cpp
1>Vincenty.cpp
1>Generating code
1>Previous IPDB not found, fall back to full compilation.
1>All 138 functions were compiled because no usable IPDB/IOBJ
from previous compilation was found.
1>Finished generating code
1>CurvatureOfTheEarth.vcxproj ->
D:\CurvatureOfTheEarth\x64\Release\CurvatureOfTheEarth.exe
===== Rebuild All: 1 succeeded, 0 failed, 0 skipped
=====
===== Rebuild completed at 1:02 PM and took 13.307 seconds
=====
```

Tabular Data

Range in Yards Versus Curvature of the Earth in Feet

Yards	0	100	200	300	400	500	600	700	800	900
1000.0	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8
2000.0	0.9	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.8
3000.0	1.9	2.1	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.3
4000.0	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2
5000.0	5.4	5.6	5.8	6.0	6.3	6.5	6.7	7.0	7.2	7.5
6000.0	7.7	8.0	8.3	8.5	8.8	9.1	9.4	9.7	10.0	10.2
7000.0	10.5	10.9	11.2	11.5	11.8	12.1	12.4	12.8	13.1	13.4
8000.0	13.8	14.1	14.5	14.8	15.2	15.6	15.9	16.3	16.7	17.1
9000.0	17.4	17.8	18.2	18.6	19.0	19.4	19.8	20.3	20.7	21.1
10000.0	21.5	22.0	22.4	22.8	23.3	23.7	24.2	24.7	25.1	25.6
11000.0	26.1	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5
12000.0	31.0	31.5	32.1	32.6	33.1	33.7	34.2	34.7	35.3	35.9
13000.0	36.4	37.0	37.5	38.1	38.7	39.3	39.9	40.4	41.0	41.6
14000.0	42.2	42.8	43.5	44.1	44.7	45.3	45.9	46.6	47.2	47.8
15000.0	48.5	49.1	49.8	50.5	51.1	51.8	52.5	53.1	53.8	54.5
16000.0	55.2	55.9	56.6	57.3	58.0	58.7	59.4	60.1	60.8	61.6
17000.0	62.3	63.0	63.8	64.5	65.3	66.0	66.8	67.5	68.3	69.1
18000.0	69.9	70.6	71.4	72.2	73.0	73.8	74.6	75.4	76.2	77.0
19000.0	77.8	78.7	79.5	80.3	81.2	82.0	82.8	83.7	84.5	85.4
20000.0	86.3	87.1	88.0	88.9	89.8	90.6	91.5	92.4	93.3	94.2
21000.0	95.1	96.0	96.9	97.9	98.8	99.7	100.6	101.6	102.5	103.5
22000.0	104.4	105.4	106.3	107.3	108.3	109.2	110.2	111.2	112.2	113.1
23000.0	114.1	115.1	116.1	117.1	118.1	119.2	120.2	121.2	122.2	123.3
24000.0	124.3	125.3	126.4	127.4	128.5	129.5	130.6	131.7	132.7	133.8
25000.0	134.9	136.0	137.1	138.2	139.2	140.4	141.5	142.6	143.7	144.8
26000.0	145.9	147.0	148.2	149.3	150.5	151.6	152.7	153.9	155.1	156.2
27000.0	157.4	158.6	159.7	160.9	162.1	163.3	164.5	165.7	166.9	168.1
28000.0	169.3	170.5	171.7	172.9	174.2	175.4	176.6	177.9	179.1	180.4
29000.0	181.6	182.9	184.1	185.4	186.7	187.9	189.2	190.5	191.8	193.1
30000.0	194.4	195.7	197.0	198.3	199.6	200.9	202.3	203.6	204.9	206.2
31000.0	207.6	208.9	210.3	211.6	213.0	214.4	215.7	217.1	218.5	219.8
32000.0	221.2	222.6	224.0	225.4	226.8	228.2	229.6	231.0	232.5	233.9
33000.0	235.3	236.7	238.2	239.6	241.1	242.5	244.0	245.4	246.9	248.3
34000.0	249.8	251.3	252.8	254.3	255.7	257.2	258.7	260.2	261.7	263.3
35000.0	264.8	266.3	267.8	269.3	270.9	272.4	273.9	275.5	277.0	278.6
36000.0	280.2	281.7	283.3	284.9	286.4	288.0	289.6	291.2	292.8	294.4
37000.0	296.0	297.6	299.2	300.8	302.4	304.1	305.7	307.3	309.0	310.6
38000.0	312.2	313.9	315.5	317.2	318.9	320.5	322.2	323.9	325.6	327.2
39000.0	328.9	330.6	332.3	334.0	335.7	337.4	339.2	340.9	342.6	344.3
40000.0	346.1	347.8	349.5	351.3	353.0	354.8	356.6	358.3	360.1	361.9
Yards	0	100	200	300	400	500	600	700	800	900

Compute      Cancel

Figure 1 Curvature of the Earth Table