



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTMOWT40MWD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[TESTDATE] 2017-03-27

[ISSUEDATE] 2017-03-27 16:19:16

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMINAIRE] NUVHTMOWT40MWD120-277V

[LAMP] 4000K Ra80

CHARACTERISTICS

Lumens Per Lamp	19142 (1 lamp)
Total Lamp Lumens	19142
Luminaire Lumens	19142
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	148.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.24 m (Diameter)
Luminous Width (90-270)	0.24 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27226	27111	26863
55	13491	13327	13375
65	11350	11134	11241
75	9331	9259	9237
85	3534	3263	3341

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27277.77	27277.88	27278.00	27278.14	27278.29	27278.45	27278.61	27278.77	27278.92	27279.05
1.0	27274.86	27275.02	27275.22	27275.44	27275.69	27275.95	27276.21	27276.47	27276.73	27276.97
1.5	27271.33	27271.50	27271.71	27271.97	27272.26	27272.57	27272.89	27273.21	27273.54	27273.86
2.0	27267.03	27267.15	27267.32	27267.53	27267.79	27268.08	27268.39	27268.72	27269.07	27269.43
2.5	27262.13	27262.05	27262.03	27262.06	27262.15	27262.29	27262.48	27262.72	27263.02	27263.36
3.0	27255.82	27255.56	27255.36	27255.21	27255.13	27255.13	27255.20	27255.35	27255.59	27255.92
3.5	27247.39	27247.10	27246.87	27246.71	27246.61	27246.60	27246.67	27246.83	27247.10	27247.47
4.0	27236.88	27236.63	27236.45	27236.32	27236.28	27236.32	27236.45	27236.69	27237.03	27237.48
4.5	27224.33	27224.11	27223.96	27223.91	27223.95	27224.09	27224.33	27224.67	27225.13	27225.69
5.0	27209.18	27209.01	27208.95	27209.00	27209.16	27209.43	27209.80	27210.30	27210.91	27211.62
5.5	27191.18	27191.10	27191.16	27191.33	27191.63	27192.05	27192.59	27193.25	27194.03	27194.92
6.0	27169.47	27169.54	27169.75	27170.09	27170.57	27171.18	27171.92	27172.79	27173.78	27174.88
6.5	27143.23	27143.50	27143.93	27144.51	27145.24	27146.11	27147.12	27148.27	27149.56	27150.96
7.0	27112.19	27112.69	27113.36	27114.19	27115.18	27116.33	27117.63	27119.08	27120.66	27122.38
7.5	27076.13	27076.85	27077.75	27078.82	27080.05	27081.45	27082.99	27084.68	27086.50	27088.44
8.0	27034.04	27034.98	27036.10	27037.40	27038.86	27040.47	27042.23	27044.13	27046.15	27048.29
8.5	26985.25	26986.44	26987.80	26989.32	26990.99	26992.80	26994.75	26996.84	26999.04	27001.36
9.0	26928.41	26929.83	26931.40	26933.11	26934.96	26936.94	26939.05	26941.28	26943.64	26946.10
9.5	26862.33	26863.91	26865.62	26867.45	26869.41	26871.49	26873.69	26876.02	26878.45	26881.00
10.0	26785.82	26787.54	26789.37	26791.31	26793.38	26795.55	26797.84	26800.25	26802.77	26805.39
10.5	26697.92	26699.79	26701.77	26703.86	26706.06	26708.38	26710.80	26713.35	26716.01	26718.78
11.0	26596.72	26598.77	26600.93	26603.21	26605.59	26608.07	26610.68	26613.39	26616.22	26619.16
11.5	26480.24	26482.58	26485.03	26487.59	26490.25	26493.02	26495.89	26498.85	26501.91	26505.06
12.0	26347.75	26350.32	26353.01	26355.81	26358.70	26361.69	26364.75	26367.90	26371.12	26374.40
12.5	26198.68	26201.29	26204.00	26206.80	26209.67	26212.63	26215.65	26218.73	26221.87	26225.06
13.0	26030.51	26033.09	26035.73	26038.43	26041.19	26044.00	26046.86	26049.76	26052.71	26055.68
13.5	25841.38	25843.99	25846.63	25849.29	25851.96	25854.66	25857.37	25860.09	25862.83	25865.57
14.0	25628.72	25631.24	25633.73	25636.19	25638.63	25641.05	25643.46	25645.86	25648.26	25650.65
14.5	25389.64	25391.64	25393.53	25395.34	25397.10	25398.82	25400.53	25402.24	25403.98	25405.78
15.0	25123.37	25124.80	25126.05	25127.18	25128.22	25129.21	25130.19	25131.20	25132.27	25133.46
15.5	24829.72	24830.86	24831.78	24832.52	24833.13	24833.67	24834.18	24834.71	24835.32	24836.05
16.0	24503.98	24505.03	24505.82	24506.42	24506.88	24507.24	24507.57	24507.92	24508.33	24508.87
16.5	24139.71	24140.92	24141.96	24142.85	24143.64	24144.37	24145.08	24145.81	24146.61	24147.51
17.0	23741.86	23743.32	23744.67	23745.94	23747.16	23748.35	23749.54	23750.77	23752.07	23753.45
17.5	23314.82	23316.39	23317.85	23319.21	23320.53	23321.82	23323.14	23324.50	23325.95	23327.51
18.0	22853.85	22855.52	22857.04	22858.47	22859.84	22861.19	22862.57	22864.03	22865.61	22867.34
18.5	22354.31	22356.10	22357.75	22359.32	22360.85	22362.39	22363.99	22365.70	22367.57	22369.64
19.0	21820.27	21822.20	21824.03	21825.80	21827.56	21829.36	21831.27	21833.33	21835.60	21838.12
19.5	21254.11	21256.15	21258.09	21260.01	21261.96	21264.00	21266.21	21268.64	21271.36	21274.43
20.0	20656.17	20658.59	20660.96	20663.33	20665.78	20668.37	20671.16	20674.23	20677.64	20681.44
20.5	20025.51	20029.10	20032.72	20036.43	20040.24	20044.21	20048.37	20052.75	20057.40	20062.35
21.0	19368.39	19373.32	19378.38	19383.57	19388.91	19394.39	19400.02	19405.80	19411.73	19417.81
21.5	18690.05	18696.00	18702.14	18708.43	18714.88	18721.45	18728.12	18734.88	18741.70	18748.57
22.0	17992.72	17999.47	18006.41	18013.52	18020.75	18028.07	18035.45	18042.87	18050.27	18057.64
22.5	17279.84	17286.93	17294.13	17301.42	17308.79	17316.21	17323.65	17331.10	17338.54	17345.92
23.0	16553.04	16560.49	16568.00	16575.54	16583.10	16590.66	16598.19	16605.69	16613.14	16620.51
23.5	15812.33	15820.90	15829.57	15838.30	15847.02	15855.68	15864.23	15872.61	15880.76	15888.63
24.0	15065.93	15075.54	15085.32	15095.19	15105.04	15114.78	15124.31	15133.55	15142.39	15150.74
24.5	14321.34	14331.16	14341.15	14351.23	14361.28	14371.20	14380.90	14390.27	14399.21	14407.62
25.0	13580.66	13590.44	13600.36	13610.31	13620.21	13629.95	13639.44	13648.58	13657.29	13665.45
25.5	12848.24	12858.12	12868.02	12877.84	12887.50	12896.89	12905.95	12914.56	12922.64	12930.11
26.0	12124.86	12134.80	12144.64	12154.29	12163.67	12172.68	12181.23	12189.25	12196.63	12203.29
26.5	11410.83	11420.78	11430.61	11440.20	11449.48	11458.32	11466.65	11474.36	11481.35	11487.52

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27.0	10711.91	10721.72	10731.39	10740.82	10749.91	10758.53	10766.58	10773.96	10780.55	10786.24
27.5	10034.03	10043.38	10052.57	10061.51	10070.07	10078.15	10085.63	10092.41	10098.37	10103.42
28.0	9376.97	9385.71	9394.25	9402.50	9410.35	9417.70	9424.45	9430.49	9435.72	9440.03
28.5	8741.93	8749.93	8757.66	8765.01	8771.92	8778.31	8784.09	8789.18	8793.50	8796.97
29.0	8130.67	8138.01	8144.97	8151.51	8157.56	8163.08	8167.99	8172.24	8175.77	8178.54
29.5	7545.00	7551.95	7558.50	7564.61	7570.23	7575.32	7579.83	7583.72	7586.93	7589.43
30.0	6986.03	6992.78	6999.15	7005.09	7010.56	7015.52	7019.92	7023.72	7026.88	7029.35
30.5	6454.35	6461.15	6467.65	6473.77	6479.47	6484.68	6489.34	6493.39	6496.77	6499.41
31.0	5953.43	5960.25	5966.84	5973.13	5979.04	5984.48	5989.39	5993.67	5997.25	6000.05
31.5	5485.35	5492.00	5498.46	5504.65	5510.49	5515.91	5520.81	5525.11	5528.73	5531.60
32.0	5054.86	5060.87	5066.65	5072.14	5077.28	5082.01	5086.27	5090.00	5093.14	5095.63
32.5	4674.39	4678.46	4681.98	4684.99	4687.53	4689.64	4691.34	4692.68	4693.70	4694.42
33.0	4322.93	4325.34	4326.99	4327.98	4328.43	4328.43	4328.10	4327.54	4326.87	4326.18
33.5	3976.30	3979.16	3981.58	3983.59	3985.21	3986.50	3987.49	3988.20	3988.68	3988.96
34.0	3656.42	3660.34	3664.26	3668.10	3671.79	3675.26	3678.44	3681.24	3683.60	3685.44
34.5	3382.42	3387.29	3392.49	3397.85	3403.22	3408.44	3413.34	3417.76	3421.56	3424.55
35.0	3138.52	3143.67	3149.31	3155.24	3161.25	3167.16	3172.75	3177.83	3182.19	3185.64
35.5	2915.37	2918.69	2922.26	2925.94	2929.64	2933.22	2936.58	2939.59	2942.15	2944.13
36.0	2712.75	2714.04	2715.27	2716.41	2717.46	2718.40	2719.21	2719.87	2720.38	2720.71
36.5	2527.84	2528.70	2529.50	2530.23	2530.89	2531.47	2531.96	2532.35	2532.64	2532.81
37.0	2359.12	2359.96	2360.81	2361.67	2362.50	2363.29	2364.00	2364.63	2365.15	2365.53
37.5	2204.58	2205.08	2205.62	2206.17	2206.72	2207.25	2207.74	2208.16	2208.51	2208.76
38.0	2062.86	2063.14	2063.45	2063.80	2064.16	2064.52	2064.85	2065.14	2065.37	2065.52
38.5	1932.22	1932.74	1933.33	1933.98	1934.64	1935.30	1935.91	1936.47	1936.92	1937.26
39.0	1811.78	1812.46	1813.24	1814.09	1814.98	1815.86	1816.69	1817.45	1818.09	1818.57
39.5	1700.02	1700.12	1700.35	1700.67	1701.07	1701.51	1701.97	1702.40	1702.80	1703.11
40.0	1597.14	1596.58	1596.13	1595.79	1595.54	1595.36	1595.25	1595.18	1595.16	1595.15
40.5	1504.34	1503.53	1502.73	1501.94	1501.16	1500.41	1499.69	1499.01	1498.38	1497.81
41.0	1417.14	1416.30	1415.37	1414.37	1413.32	1412.25	1411.17	1410.12	1409.11	1408.17
41.5	1329.87	1329.22	1328.55	1327.87	1327.20	1326.56	1325.95	1325.38	1324.87	1324.43
42.0	1247.39	1246.96	1246.62	1246.36	1246.18	1246.08	1246.04	1246.07	1246.16	1246.31
42.5	1173.75	1173.39	1173.11	1172.91	1172.79	1172.73	1172.72	1172.76	1172.83	1172.92
43.0	1105.74	1105.39	1105.11	1104.89	1104.73	1104.60	1104.50	1104.41	1104.33	1104.24
43.5	1041.33	1041.03	1040.79	1040.62	1040.50	1040.41	1040.33	1040.27	1040.19	1040.09
44.0	980.93	980.66	980.46	980.33	980.25	980.20	980.16	980.13	980.09	980.02
44.5	924.33	924.07	923.88	923.76	923.68	923.64	923.62	923.60	923.58	923.54
45.0	871.29	871.03	870.84	870.72	870.64	870.60	870.58	870.58	870.57	870.55
45.5	821.49	821.24	821.07	820.95	820.88	820.85	820.84	820.83	820.83	820.82
46.0	774.91	774.69	774.53	774.43	774.37	774.34	774.33	774.33	774.33	774.32
46.5	731.56	731.35	731.21	731.11	731.06	731.04	731.04	731.05	731.06	731.05
47.0	691.13	690.94	690.81	690.72	690.68	690.67	690.68	690.70	690.71	690.71
47.5	653.33	653.15	653.03	652.96	652.93	652.92	652.94	652.96	652.97	652.97
48.0	618.18	618.01	617.90	617.84	617.81	617.81	617.82	617.84	617.85	617.85
48.5	585.65	585.48	585.36	585.29	585.26	585.25	585.25	585.27	585.28	585.27
49.0	555.66	555.48	555.35	555.27	555.21	555.19	555.18	555.17	555.17	555.16
49.5	528.19	527.99	527.84	527.73	527.64	527.58	527.54	527.50	527.47	527.43
50.0	503.08	502.86	502.67	502.52	502.40	502.30	502.21	502.14	502.07	502.00
50.5	480.17	479.93	479.71	479.53	479.37	479.23	479.10	478.99	478.88	478.78
51.0	459.36	459.09	458.84	458.62	458.43	458.25	458.08	457.93	457.79	457.65
51.5	440.51	440.22	439.95	439.70	439.47	439.26	439.06	438.88	438.71	438.55
52.0	423.50	423.18	422.88	422.60	422.34	422.09	421.86	421.64	421.44	421.26
52.5	408.24	407.89	407.54	407.21	406.89	406.59	406.30	406.03	405.77	405.54
53.0	394.49	394.10	393.71	393.33	392.96	392.60	392.25	391.92	391.61	391.33
53.5	382.04	381.64	381.24	380.83	380.42	380.02	379.64	379.27	378.92	378.61
54.0	370.67	370.26	369.84	369.41	368.98	368.55	368.14	367.74	367.36	367.02
54.5	360.08	359.65	359.21	358.75	358.29	357.83	357.39	356.96	356.55	356.18

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CANDELA TABULATION - (Cont.)

55.0	350.22	349.79	349.33	348.85	348.37	347.89	347.41	346.96	346.53	346.15
55.5	341.01	340.58	340.12	339.64	339.14	338.65	338.16	337.68	337.24	336.83
56.0	332.29	331.88	331.44	330.97	330.48	329.99	329.50	329.03	328.58	328.16
56.5	323.84	323.48	323.08	322.67	322.23	321.79	321.35	320.92	320.50	320.11
57.0	315.78	315.46	315.11	314.74	314.36	313.96	313.57	313.17	312.79	312.42
57.5	308.20	307.87	307.51	307.13	306.73	306.32	305.91	305.50	305.11	304.73
58.0	300.99	300.65	300.27	299.87	299.45	299.01	298.58	298.15	297.73	297.34
58.5	294.09	293.76	293.40	293.01	292.59	292.17	291.74	291.32	290.92	290.53
59.0	287.49	287.17	286.82	286.44	286.04	285.63	285.21	284.80	284.41	284.04
59.5	281.16	280.83	280.47	280.08	279.67	279.26	278.84	278.42	278.03	277.65
60.0	275.06	274.72	274.34	273.94	273.52	273.09	272.66	272.24	271.84	271.46
60.5	269.17	268.82	268.44	268.03	267.60	267.16	266.73	266.30	265.89	265.51
61.0	263.38	263.03	262.64	262.22	261.79	261.35	260.91	260.48	260.06	259.68
61.5	257.56	257.21	256.82	256.40	255.97	255.53	255.09	254.66	254.25	253.87
62.0	251.73	251.38	250.99	250.58	250.15	249.72	249.28	248.86	248.45	248.08
62.5	245.82	245.47	245.10	244.69	244.28	243.85	243.43	243.02	242.63	242.26
63.0	239.93	239.59	239.22	238.83	238.42	238.00	237.59	237.19	236.81	236.46
63.5	234.13	233.80	233.43	233.04	232.63	232.22	231.81	231.42	231.04	230.69
64.0	228.40	228.07	227.70	227.31	226.91	226.50	226.09	225.70	225.32	224.98
64.5	222.73	222.40	222.05	221.67	221.27	220.87	220.48	220.09	219.72	219.37
65.0	217.10	216.78	216.43	216.07	215.68	215.29	214.90	214.51	214.14	213.80
65.5	211.51	211.19	210.84	210.47	210.08	209.69	209.29	208.90	208.53	208.18
66.0	205.92	205.60	205.24	204.87	204.48	204.08	203.69	203.30	202.92	202.56
66.5	200.26	199.94	199.60	199.23	198.85	198.46	198.07	197.68	197.31	196.96
67.0	194.60	194.29	193.95	193.60	193.23	192.85	192.47	192.10	191.74	191.39
67.5	188.98	188.68	188.36	188.01	187.65	187.29	186.92	186.56	186.21	185.87
68.0	183.39	183.10	182.79	182.46	182.11	181.76	181.41	181.07	180.73	180.41
68.5	177.80	177.53	177.24	176.93	176.61	176.28	175.96	175.64	175.32	175.02
69.0	172.22	171.97	171.70	171.42	171.13	170.83	170.54	170.25	169.96	169.69
69.5	166.62	166.39	166.15	165.90	165.64	165.39	165.12	164.87	164.61	164.37
70.0	161.07	160.87	160.66	160.44	160.22	159.99	159.76	159.54	159.31	159.09
70.5	155.68	155.50	155.31	155.11	154.91	154.70	154.50	154.29	154.08	153.88
71.0	150.37	150.21	150.03	149.86	149.67	149.48	149.29	149.10	148.91	148.72
71.5	145.08	144.94	144.79	144.63	144.47	144.30	144.13	143.96	143.80	143.63
72.0	139.85	139.72	139.59	139.45	139.31	139.17	139.03	138.88	138.73	138.59
72.5	134.69	134.58	134.47	134.35	134.23	134.10	133.98	133.85	133.73	133.61
73.0	129.60	129.50	129.39	129.29	129.19	129.08	128.97	128.87	128.76	128.66
73.5	124.54	124.46	124.37	124.28	124.19	124.11	124.02	123.93	123.84	123.75
74.0	119.49	119.42	119.35	119.28	119.21	119.14	119.07	119.00	118.92	118.85
74.5	114.40	114.35	114.30	114.25	114.19	114.14	114.09	114.04	113.99	113.93
75.0	109.30	109.26	109.23	109.20	109.16	109.13	109.10	109.07	109.03	109.00
75.5	104.23	104.20	104.17	104.15	104.13	104.11	104.09	104.07	104.05	104.02
76.0	99.19	99.16	99.14	99.12	99.11	99.09	99.08	99.07	99.05	99.03
76.5	94.19	94.16	94.14	94.12	94.11	94.09	94.08	94.07	94.05	94.03
77.0	89.26	89.22	89.20	89.18	89.16	89.14	89.12	89.11	89.09	89.07
77.5	84.42	84.38	84.35	84.32	84.29	84.27	84.25	84.22	84.20	84.18
78.0	79.65	79.61	79.57	79.54	79.51	79.48	79.46	79.43	79.41	79.38
78.5	74.95	74.91	74.87	74.85	74.82	74.80	74.78	74.76	74.74	74.72
79.0	70.29	70.26	70.24	70.23	70.21	70.21	70.20	70.19	70.19	70.17
79.5	65.66	65.65	65.65	65.66	65.67	65.69	65.71	65.73	65.74	65.75
80.0	61.10	61.10	61.12	61.15	61.18	61.22	61.26	61.30	61.33	61.36
80.5	56.71	56.71	56.72	56.75	56.78	56.82	56.86	56.89	56.92	56.94
81.0	52.26	52.26	52.26	52.28	52.30	52.33	52.35	52.38	52.40	52.41
81.5	47.59	47.57	47.57	47.58	47.60	47.62	47.64	47.66	47.68	47.69
82.0	42.67	42.65	42.64	42.64	42.65	42.66	42.68	42.70	42.71	42.73
82.5	37.31	37.27	37.26	37.26	37.26	37.28	37.30	37.32	37.34	37.35

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83.0	31.90	31.86	31.83	31.82	31.82	31.83	31.84	31.85	31.86	31.87
83.5	26.78	26.71	26.65	26.60	26.57	26.54	26.51	26.49	26.47	26.45
84.0	22.01	21.91	21.82	21.74	21.67	21.60	21.54	21.49	21.44	21.39
84.5	17.82	17.73	17.64	17.56	17.49	17.42	17.36	17.30	17.24	17.19
85.0	13.94	13.86	13.79	13.73	13.67	13.61	13.56	13.51	13.46	13.41
85.5	10.01	9.95	9.89	9.84	9.79	9.75	9.71	9.67	9.63	9.59
86.0	6.50	6.46	6.42	6.39	6.36	6.34	6.31	6.29	6.27	6.25
86.5	3.72	3.72	3.71	3.72	3.72	3.72	3.73	3.74	3.75	3.75
87.0	1.82	1.84	1.86	1.89	1.92	1.95	1.98	2.01	2.04	2.06
87.5	1.31	1.33	1.34	1.36	1.38	1.40	1.42	1.44	1.45	1.47
88.0	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
88.5	1.31	1.31	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29
89.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28	1.28	1.28
89.5	1.28	1.28	1.28	1.28	1.28	1.28	1.27	1.27	1.27	1.27
90.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29

**Vert.
Angles**

Horizontal Angles

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27279.09	27279.12	27279.13	27279.13	27279.11	27279.08	27279.05	27279.00	27278.95	27278.88
1.0	27277.07	27277.16	27277.22	27277.26	27277.29	27277.30	27277.29	27277.27	27277.24	27277.17
1.5	27274.03	27274.19	27274.33	27274.46	27274.57	27274.66	27274.75	27274.82	27274.87	27274.88
2.0	27269.72	27270.02	27270.31	27270.59	27270.87	27271.14	27271.39	27271.63	27271.86	27271.98
2.5	27263.88	27264.45	27265.04	27265.65	27266.26	27266.88	27267.48	27268.05	27268.59	27268.83
3.0	27256.68	27257.51	27258.41	27259.34	27260.30	27261.27	27262.21	27263.13	27263.99	27264.37
3.5	27248.34	27249.30	27250.34	27251.43	27252.56	27253.70	27254.84	27255.95	27257.01	27257.62
4.0	27238.42	27239.46	27240.58	27241.76	27242.99	27244.24	27245.50	27246.73	27247.94	27248.74
4.5	27226.70	27227.80	27228.98	27230.22	27231.51	27232.82	27234.13	27235.41	27236.67	27237.50
5.0	27212.71	27213.90	27215.16	27216.47	27217.82	27219.20	27220.56	27221.91	27223.22	27224.05
5.5	27196.15	27197.49	27198.89	27200.35	27201.85	27203.36	27204.88	27206.37	27207.82	27208.78
6.0	27176.34	27177.89	27179.52	27181.20	27182.91	27184.64	27186.35	27188.03	27189.66	27190.75
6.5	27152.80	27154.74	27156.74	27158.79	27160.84	27162.89	27164.90	27166.84	27168.68	27169.71
7.0	27124.59	27126.89	27129.26	27131.66	27134.05	27136.41	27138.70	27140.88	27142.93	27143.93
7.5	27090.82	27093.28	27095.80	27098.34	27100.88	27103.38	27105.81	27108.13	27110.32	27111.50
8.0	27050.79	27053.37	27056.00	27058.65	27061.29	27063.90	27066.45	27068.89	27071.22	27072.61
8.5	27004.07	27006.86	27009.69	27012.54	27015.38	27018.18	27020.91	27023.54	27026.03	27027.57
9.0	26949.01	26952.00	26955.04	26958.09	26961.13	26964.12	26967.03	26969.84	26972.50	26974.17
9.5	26884.03	26887.14	26890.30	26893.48	26896.64	26899.76	26902.81	26905.75	26908.56	26910.37
10.0	26808.54	26811.77	26815.05	26818.34	26821.63	26824.88	26828.06	26831.13	26834.08	26836.03
10.5	26722.13	26725.56	26729.05	26732.56	26736.05	26739.50	26742.88	26746.14	26749.27	26751.37
11.0	26622.70	26626.30	26629.97	26633.64	26637.30	26640.91	26644.43	26647.83	26651.08	26653.27
11.5	26508.68	26512.36	26516.05	26519.75	26523.41	26527.00	26530.49	26533.84	26537.04	26539.15
12.0	26378.01	26381.64	26385.28	26388.89	26392.45	26395.93	26399.30	26402.54	26405.60	26407.59
12.5	26228.50	26231.97	26235.43	26238.87	26242.25	26245.57	26248.79	26251.90	26254.86	26256.86
13.0	26058.89	26062.10	26065.31	26068.50	26071.65	26074.74	26077.75	26080.66	26083.46	26085.41
13.5	25868.48	25871.37	25874.25	25877.09	25879.88	25882.60	25885.25	25887.81	25890.27	25891.89
14.0	25653.27	25655.88	25658.46	25661.00	25663.50	25665.93	25668.29	25670.55	25672.71	25673.98
14.5	25408.23	25410.74	25413.28	25415.81	25418.33	25420.81	25423.21	25425.54	25427.75	25428.83
15.0	25135.77	25138.20	25140.71	25143.27	25145.85	25148.41	25150.92	25153.34	25155.65	25156.61
15.5	24838.09	24840.27	24842.55	24844.91	24847.29	24849.68	24852.03	24854.30	24856.48	24857.31
16.0	24510.71	24512.70	24514.80	24516.97	24519.18	24521.41	24523.61	24525.76	24527.81	24528.67
16.5	24149.43	24151.47	24153.61	24155.81	24158.05	24160.31	24162.56	24164.78	24166.94	24168.24
17.0	23755.63	23757.89	23760.25	23762.65	23765.09	23767.56	23770.02	23772.45	23774.83	23776.65
17.5	23330.07	23332.76	23335.54	23338.38	23341.25	23344.13	23346.97	23349.76	23352.46	23354.41
18.0	22870.41	22873.65	22877.00	22880.43	22883.89	22887.35	22890.75	22894.05	22897.22	22899.41

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18.5	22373.25	22377.07	22381.05	22385.13	22389.27	22393.42	22397.53	22401.56	22405.46	22408.48
19.0	21842.43	21847.00	21851.76	21856.66	21861.65	21866.67	21871.65	21876.55	21881.31	21885.24
19.5	21279.87	21285.64	21291.67	21297.86	21304.14	21310.44	21316.65	21322.70	21328.52	21332.99
20.0	20687.92	20694.76	20701.88	20709.16	20716.52	20723.84	20731.04	20738.01	20744.66	20749.59
20.5	20069.20	20076.30	20083.59	20090.98	20098.38	20105.73	20112.93	20119.91	20126.59	20132.11
21.0	19424.79	19431.87	19439.01	19446.15	19453.25	19460.26	19467.12	19473.79	19480.20	19486.24
21.5	18755.61	18762.64	18769.65	18776.59	18783.43	18790.16	18796.73	18803.12	18809.30	18815.82
22.0	18064.75	18071.77	18078.68	18085.47	18092.12	18098.61	18104.92	18111.03	18116.93	18123.57
22.5	17353.40	17360.78	17368.02	17375.11	17381.99	17388.65	17395.04	17401.14	17406.90	17412.73
23.0	16628.13	16635.63	16642.95	16650.04	16656.88	16663.41	16669.58	16675.37	16680.72	16685.56
23.5	15895.49	15902.01	15908.19	15914.02	15919.49	15924.62	15929.38	15933.78	15937.80	15942.32
24.0	15156.78	15162.28	15167.25	15171.75	15175.80	15179.44	15182.70	15185.62	15188.23	15192.25
24.5	14413.75	14419.28	14424.22	14428.60	14432.44	14435.76	14438.59	14440.94	14442.85	14445.37
25.0	13671.63	13677.18	13682.11	13686.41	13690.10	13693.17	13695.63	13697.49	13698.75	13699.67
25.5	12935.46	12940.12	12944.09	12947.40	12950.05	12952.06	12953.44	12954.21	12954.38	12954.32
26.0	12207.55	12211.03	12213.77	12215.81	12217.17	12217.89	12218.00	12217.54	12216.54	12215.79
26.5	11490.72	11493.06	11494.60	11495.39	11495.51	11494.99	11493.90	11492.29	11490.22	11488.96
27.0	10788.43	10789.70	10790.12	10789.78	10788.75	10787.11	10784.95	10782.33	10779.35	10777.68
27.5	10104.73	10105.11	10104.63	10103.40	10101.50	10099.02	10096.06	10092.71	10089.06	10087.05
28.0	9440.69	9440.43	9439.34	9437.52	9435.06	9432.06	9428.60	9424.79	9420.72	9418.32
28.5	8797.36	8796.90	8795.67	8793.74	8791.21	8788.14	8784.62	8780.73	8776.55	8773.52
29.0	8178.88	8178.46	8177.32	8175.54	8173.17	8170.28	8166.92	8163.16	8159.05	8155.48
29.5	7589.94	7589.74	7588.88	7587.40	7585.34	7582.77	7579.71	7576.23	7572.37	7568.71
30.0	7029.98	7029.91	7029.21	7027.90	7026.04	7023.65	7020.79	7017.50	7013.82	7010.27
30.5	6499.65	6499.15	6497.98	6496.19	6493.84	6490.99	6487.70	6484.03	6480.04	6476.73
31.0	5999.92	5999.01	5997.40	5995.15	5992.35	5989.08	5985.40	5981.40	5977.14	5974.12
31.5	5531.49	5530.62	5529.06	5526.89	5524.19	5521.03	5517.49	5513.64	5509.57	5506.88
32.0	5095.88	5095.48	5094.48	5092.93	5090.89	5088.41	5085.55	5082.36	5078.89	5076.26
32.5	4695.85	4696.98	4697.79	4698.24	4698.30	4697.92	4697.09	4695.76	4693.89	4690.25
33.0	4328.37	4330.56	4332.64	4334.52	4336.09	4337.26	4337.92	4337.97	4337.32	4333.02
33.5	3990.00	3990.85	3991.46	3991.81	3991.85	3991.57	3990.91	3989.85	3988.36	3985.33
34.0	3684.80	3683.64	3682.02	3680.01	3677.69	3675.11	3672.35	3669.47	3666.55	3665.29
34.5	3422.38	3419.41	3415.79	3411.69	3407.25	3402.64	3398.00	3393.50	3389.28	3389.47
35.0	3182.64	3178.72	3174.08	3168.92	3163.44	3157.83	3152.29	3147.03	3142.23	3143.20
35.5	2942.38	2940.06	2937.27	2934.12	2930.74	2927.23	2923.70	2920.27	2917.04	2917.02
36.0	2720.51	2720.13	2719.58	2718.86	2717.99	2716.98	2715.83	2714.55	2713.15	2711.86
36.5	2532.82	2532.71	2532.47	2532.10	2531.58	2530.93	2530.12	2529.17	2528.05	2526.58
37.0	2365.39	2365.11	2364.67	2364.09	2363.38	2362.53	2361.55	2360.45	2359.24	2357.92
37.5	2208.60	2208.33	2207.95	2207.45	2206.85	2206.13	2205.32	2204.39	2203.37	2202.26
38.0	2065.30	2065.00	2064.60	2064.11	2063.54	2062.88	2062.14	2061.32	2060.42	2059.50
38.5	1936.88	1936.36	1935.71	1934.95	1934.09	1933.15	1932.12	1931.04	1929.90	1928.99
39.0	1818.10	1817.45	1816.66	1815.72	1814.68	1813.54	1812.33	1811.07	1809.77	1808.81
39.5	1702.89	1702.58	1702.16	1701.66	1701.07	1700.40	1699.66	1698.83	1697.94	1696.98
40.0	1595.18	1595.20	1595.20	1595.17	1595.10	1594.95	1594.73	1594.42	1594.00	1593.07
40.5	1497.67	1497.57	1497.49	1497.43	1497.35	1497.25	1497.10	1496.88	1496.57	1495.67
41.0	1407.89	1407.68	1407.52	1407.39	1407.27	1407.14	1406.99	1406.78	1406.51	1405.64
41.5	1324.59	1324.81	1325.05	1325.30	1325.52	1325.70	1325.81	1325.81	1325.69	1324.73
42.0	1246.85	1247.41	1247.97	1248.50	1248.97	1249.36	1249.63	1249.76	1249.72	1248.72
42.5	1173.12	1173.31	1173.49	1173.64	1173.75	1173.79	1173.76	1173.64	1173.42	1172.65
43.0	1103.97	1103.69	1103.38	1103.05	1102.70	1102.33	1101.93	1101.51	1101.06	1100.56
43.5	1039.71	1039.30	1038.86	1038.40	1037.92	1037.43	1036.93	1036.42	1035.92	1035.52
44.0	979.64	979.23	978.78	978.31	977.83	977.33	976.83	976.33	975.83	975.49
44.5	923.21	922.85	922.46	922.06	921.63	921.20	920.76	920.32	919.88	919.57
45.0	870.29	870.01	869.71	869.39	869.05	868.70	868.35	867.98	867.61	867.31
45.5	820.59	820.34	820.07	819.79	819.49	819.17	818.85	818.52	818.19	817.90
46.0	774.11	773.87	773.62	773.35	773.06	772.77	772.47	772.16	771.85	771.58

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46.5	730.84	730.61	730.36	730.10	729.82	729.54	729.25	728.96	728.67	728.44
47.0	690.49	690.26	690.00	689.74	689.46	689.18	688.90	688.61	688.34	688.16
47.5	652.74	652.49	652.22	651.94	651.66	651.37	651.08	650.80	650.54	650.41
48.0	617.61	617.35	617.08	616.79	616.50	616.22	615.93	615.66	615.41	615.32
48.5	585.06	584.83	584.58	584.33	584.07	583.82	583.57	583.34	583.11	583.04
49.0	554.97	554.77	554.56	554.34	554.12	553.90	553.69	553.49	553.30	553.24
49.5	527.24	527.04	526.83	526.62	526.41	526.20	526.01	525.82	525.65	525.60
50.0	501.79	501.58	501.37	501.17	500.96	500.77	500.58	500.41	500.25	500.22
50.5	478.57	478.37	478.17	477.98	477.79	477.61	477.45	477.30	477.17	477.16
51.0	457.45	457.26	457.07	456.89	456.72	456.57	456.43	456.31	456.20	456.21
51.5	438.35	438.16	437.99	437.82	437.67	437.53	437.42	437.32	437.24	437.27
52.0	421.06	420.87	420.70	420.55	420.42	420.30	420.20	420.13	420.08	420.13
52.5	405.33	405.15	404.99	404.86	404.74	404.65	404.58	404.54	404.52	404.60
53.0	391.12	390.94	390.79	390.67	390.57	390.50	390.46	390.44	390.44	390.54
53.5	378.39	378.21	378.06	377.94	377.84	377.78	377.74	377.73	377.75	377.85
54.0	366.80	366.62	366.48	366.36	366.28	366.22	366.20	366.20	366.22	366.31
54.5	356.00	355.85	355.75	355.67	355.63	355.61	355.62	355.66	355.72	355.80
55.0	345.98	345.86	345.79	345.74	345.73	345.75	345.80	345.86	345.95	346.02
55.5	336.66	336.53	336.44	336.38	336.37	336.38	336.42	336.48	336.56	336.63
56.0	327.95	327.79	327.66	327.57	327.52	327.50	327.51	327.54	327.60	327.70
56.5	319.84	319.61	319.41	319.25	319.12	319.03	318.97	318.95	318.97	319.12
57.0	312.11	311.83	311.57	311.34	311.15	311.00	310.89	310.83	310.81	311.02
57.5	304.44	304.18	303.95	303.75	303.59	303.47	303.38	303.34	303.34	303.53
58.0	297.09	296.87	296.69	296.53	296.42	296.33	296.29	296.28	296.31	296.46
58.5	290.29	290.08	289.91	289.76	289.65	289.57	289.53	289.52	289.55	289.69
59.0	283.80	283.60	283.42	283.28	283.17	283.09	283.05	283.04	283.06	283.19
59.5	277.43	277.23	277.07	276.94	276.84	276.78	276.74	276.74	276.78	276.90
60.0	271.24	271.06	270.90	270.79	270.70	270.65	270.63	270.64	270.69	270.81
60.5	265.29	265.11	264.97	264.86	264.78	264.73	264.72	264.73	264.78	264.90
61.0	259.47	259.29	259.15	259.04	258.97	258.93	258.92	258.93	258.98	259.09
61.5	253.66	253.49	253.36	253.26	253.19	253.15	253.14	253.16	253.21	253.30
62.0	247.88	247.71	247.58	247.49	247.42	247.39	247.38	247.40	247.45	247.53
62.5	242.06	241.90	241.77	241.68	241.62	241.58	241.58	241.60	241.65	241.74
63.0	236.27	236.11	235.98	235.89	235.83	235.80	235.80	235.82	235.87	235.98
63.5	230.51	230.37	230.26	230.18	230.13	230.11	230.11	230.14	230.19	230.28
64.0	224.81	224.67	224.57	224.50	224.45	224.43	224.44	224.47	224.51	224.57
64.5	219.19	219.04	218.92	218.83	218.76	218.72	218.71	218.71	218.74	218.78
65.0	213.60	213.43	213.29	213.17	213.08	213.02	212.98	212.96	212.96	212.99
65.5	207.97	207.80	207.65	207.52	207.42	207.35	207.30	207.26	207.25	207.25
66.0	202.36	202.17	202.02	201.89	201.79	201.70	201.64	201.60	201.57	201.55
66.5	196.75	196.57	196.41	196.27	196.16	196.07	196.00	195.95	195.91	195.88
67.0	191.18	191.00	190.83	190.69	190.58	190.48	190.40	190.33	190.29	190.24
67.5	185.67	185.48	185.32	185.17	185.05	184.94	184.86	184.78	184.72	184.66
68.0	180.21	180.02	179.86	179.71	179.58	179.47	179.37	179.29	179.22	179.13
68.5	174.82	174.63	174.47	174.31	174.18	174.05	173.95	173.85	173.77	173.68
69.0	169.48	169.30	169.12	168.96	168.82	168.69	168.57	168.46	168.37	168.29
69.5	164.17	163.98	163.80	163.64	163.48	163.34	163.21	163.09	162.99	162.90
70.0	158.90	158.71	158.53	158.36	158.20	158.05	157.91	157.78	157.67	157.59
70.5	153.69	153.50	153.32	153.15	152.99	152.83	152.69	152.56	152.45	152.37
71.0	148.54	148.36	148.19	148.02	147.86	147.71	147.58	147.45	147.34	147.27
71.5	143.47	143.31	143.16	143.01	142.87	142.73	142.61	142.50	142.39	142.32
72.0	138.45	138.32	138.19	138.07	137.95	137.83	137.73	137.63	137.54	137.47
72.5	133.49	133.38	133.27	133.16	133.06	132.97	132.88	132.79	132.72	132.66
73.0	128.56	128.47	128.37	128.28	128.20	128.12	128.04	127.98	127.91	127.87
73.5	123.66	123.58	123.49	123.41	123.34	123.26	123.20	123.13	123.08	123.04
74.0	118.77	118.69	118.61	118.54	118.46	118.40	118.33	118.27	118.22	118.20

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CANDELA TABULATION - (Cont.)

74.5	113.86	113.78	113.71	113.64	113.57	113.51	113.45	113.39	113.35	113.35
75.0	108.93	108.86	108.79	108.72	108.65	108.59	108.54	108.49	108.46	108.48
75.5	103.96	103.89	103.83	103.77	103.71	103.65	103.60	103.56	103.53	103.58
76.0	98.97	98.91	98.85	98.80	98.74	98.69	98.65	98.61	98.59	98.64
76.5	93.98	93.92	93.86	93.80	93.75	93.70	93.66	93.62	93.60	93.66
77.0	89.01	88.95	88.89	88.83	88.77	88.73	88.69	88.65	88.64	88.70
77.5	84.11	84.05	83.98	83.92	83.86	83.81	83.77	83.74	83.72	83.79
78.0	79.31	79.24	79.17	79.10	79.04	78.99	78.94	78.91	78.89	78.97
78.5	74.66	74.59	74.52	74.45	74.39	74.34	74.29	74.26	74.23	74.30
79.0	70.11	70.04	69.97	69.91	69.84	69.79	69.74	69.69	69.66	69.72
79.5	65.68	65.61	65.53	65.46	65.38	65.31	65.24	65.18	65.14	65.18
80.0	61.29	61.21	61.12	61.03	60.94	60.86	60.78	60.71	60.65	60.68
80.5	56.87	56.78	56.70	56.60	56.51	56.42	56.33	56.25	56.19	56.20
81.0	52.34	52.26	52.17	52.08	51.99	51.90	51.81	51.73	51.66	51.66
81.5	47.62	47.55	47.47	47.39	47.31	47.23	47.16	47.09	47.02	47.01
82.0	42.67	42.61	42.54	42.47	42.40	42.33	42.27	42.21	42.15	42.13
82.5	37.29	37.23	37.17	37.10	37.03	36.96	36.90	36.84	36.78	36.77
83.0	31.81	31.75	31.68	31.62	31.55	31.48	31.42	31.36	31.31	31.30
83.5	26.39	26.33	26.27	26.21	26.15	26.09	26.04	26.00	25.96	25.95
84.0	21.32	21.26	21.20	21.15	21.10	21.06	21.02	20.98	20.96	20.95
84.5	17.12	17.05	16.99	16.93	16.87	16.82	16.77	16.73	16.69	16.68
85.0	13.34	13.27	13.20	13.13	13.07	13.01	12.95	12.91	12.87	12.85
85.5	9.53	9.47	9.42	9.36	9.31	9.26	9.22	9.18	9.15	9.14
86.0	6.21	6.17	6.13	6.09	6.06	6.03	6.00	5.98	5.96	5.96
86.5	3.73	3.72	3.70	3.68	3.66	3.64	3.63	3.62	3.61	3.62
87.0	2.07	2.07	2.06	2.06	2.06	2.05	2.05	2.04	2.04	2.06
87.5	1.47	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.49
88.0	1.39	1.39	1.39	1.39	1.39	1.40	1.40	1.40	1.40	1.40
88.5	1.29	1.30	1.30	1.30	1.30	1.31	1.31	1.31	1.31	1.31
89.0	1.29	1.29	1.29	1.29	1.30	1.30	1.30	1.30	1.31	1.30
89.5	1.28	1.28	1.28	1.28	1.29	1.29	1.29	1.29	1.30	1.30
90.0	1.29	1.30	1.30	1.30	1.30	1.31	1.31	1.31	1.31	1.31

Vert. Angles **Horizontal Angles**

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27278.80	27278.73	27278.65	27278.58	27278.52	27278.45	27278.41	27278.37	27278.40	27278.44
1.0	27277.09	27277.00	27276.92	27276.84	27276.77	27276.71	27276.67	27276.65	27276.74	27276.85
1.5	27274.88	27274.87	27274.86	27274.86	27274.88	27274.90	27274.94	27275.01	27275.19	27275.40
2.0	27272.10	27272.20	27272.30	27272.40	27272.52	27272.64	27272.79	27272.95	27273.25	27273.57
2.5	27269.03	27269.21	27269.36	27269.50	27269.64	27269.79	27269.96	27270.14	27270.58	27271.04
3.0	27264.69	27264.97	27265.20	27265.42	27265.62	27265.82	27266.02	27266.25	27266.84	27267.44
3.5	27258.17	27258.68	27259.14	27259.56	27259.97	27260.37	27260.75	27261.15	27261.87	27262.60
4.0	27249.50	27250.21	27250.88	27251.53	27252.14	27252.74	27253.32	27253.89	27254.79	27255.67
4.5	27238.28	27239.03	27239.74	27240.43	27241.11	27241.79	27242.47	27243.16	27244.31	27245.45
5.0	27224.84	27225.59	27226.32	27227.03	27227.75	27228.48	27229.24	27230.04	27231.45	27232.89
5.5	27209.70	27210.59	27211.45	27212.30	27213.16	27214.04	27214.93	27215.88	27217.53	27219.20
6.0	27191.78	27192.77	27193.72	27194.67	27195.62	27196.58	27197.57	27198.61	27200.47	27202.36
6.5	27170.65	27171.52	27172.33	27173.12	27173.91	27174.73	27175.60	27176.54	27178.58	27180.68
7.0	27144.79	27145.56	27146.25	27146.92	27147.58	27148.28	27149.04	27149.90	27152.14	27154.45
7.5	27112.54	27113.48	27114.36	27115.21	27116.05	27116.93	27117.88	27118.93	27121.43	27124.00
8.0	27073.88	27075.06	27076.18	27077.28	27078.37	27079.49	27080.68	27081.95	27084.73	27087.57
8.5	27028.98	27030.29	27031.54	27032.75	27033.95	27035.18	27036.46	27037.84	27040.83	27043.86
9.0	26975.71	26977.13	26978.49	26979.80	26981.10	26982.42	26983.80	26985.26	26988.48	26991.72
9.5	26912.05	26913.63	26915.13	26916.60	26918.06	26919.55	26921.09	26922.72	26926.28	26929.85

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CANDELA TABULATION - (Cont.)

10.0	26837.85	26839.56	26841.21	26842.83	26844.44	26846.08	26847.77	26849.56	26853.44	26857.32
10.5	26753.33	26755.18	26756.94	26758.66	26760.35	26762.05	26763.80	26765.62	26769.64	26773.64
11.0	26655.31	26657.23	26659.05	26660.81	26662.53	26664.26	26666.01	26667.83	26672.00	26676.13
11.5	26541.10	26542.93	26544.67	26546.36	26548.03	26549.71	26551.46	26553.29	26557.80	26562.29
12.0	26409.43	26411.16	26412.81	26414.43	26416.05	26417.72	26419.48	26421.35	26426.25	26431.13
12.5	26258.74	26260.52	26262.26	26263.98	26265.72	26267.52	26269.43	26271.46	26276.68	26281.87
13.0	26087.27	26089.06	26090.82	26092.60	26094.42	26096.32	26098.33	26100.49	26106.00	26111.49
13.5	25893.44	25894.95	25896.46	25898.01	25899.63	25901.38	25903.28	25905.38	25911.15	25916.93
14.0	25675.18	25676.35	25677.54	25678.80	25680.18	25681.70	25683.44	25685.42	25691.45	25697.53
14.5	25429.82	25430.79	25431.78	25432.84	25434.04	25435.41	25437.02	25438.91	25445.32	25451.80
15.0	25157.47	25158.30	25159.15	25160.08	25161.14	25162.39	25163.89	25165.70	25172.41	25179.19
15.5	24858.05	24858.77	24859.50	24860.32	24861.27	24862.41	24863.79	24865.48	24872.18	24878.92
16.0	24529.46	24530.22	24531.01	24531.86	24532.84	24533.98	24535.34	24536.95	24543.56	24550.17
16.5	24169.50	24170.73	24171.98	24173.27	24174.63	24176.10	24177.70	24179.48	24186.11	24192.61
17.0	23778.42	23780.15	23781.87	23783.59	23785.33	23787.10	23788.93	23790.83	23797.49	23803.89
17.5	23356.27	23358.04	23359.74	23361.39	23363.02	23364.63	23366.24	23367.87	23374.55	23380.88
18.0	22901.44	22903.32	22905.08	22906.73	22908.30	22909.79	22911.23	22912.64	22919.34	22925.62
18.5	22411.32	22413.98	22416.48	22418.81	22420.97	22422.97	22424.81	22426.50	22433.26	22439.46
19.0	21888.96	21892.47	21895.74	21898.77	21901.55	21904.07	21906.31	21908.28	21915.10	21921.22
19.5	21337.14	21340.96	21344.43	21347.56	21350.34	21352.77	21354.83	21356.52	21363.35	21369.37
20.0	20754.10	20758.18	20761.82	20765.03	20767.80	20770.12	20772.00	20773.43	20780.32	20786.29
20.5	20137.22	20141.91	20146.16	20149.94	20153.24	20156.04	20158.32	20160.04	20167.34	20173.56
21.0	19491.93	19497.24	19502.11	19506.50	19510.37	19513.67	19516.36	19518.38	19525.81	19532.02
21.5	18822.03	18827.84	18833.19	18838.00	18842.21	18845.72	18848.48	18850.41	18856.83	18861.85
22.0	18129.89	18135.79	18141.19	18145.98	18150.10	18153.43	18155.89	18157.39	18162.68	18166.43
22.5	17418.13	17423.03	17427.37	17431.08	17434.09	17436.35	17437.77	17438.31	17443.33	17446.90
23.0	16689.88	16693.63	16696.78	16699.29	16701.11	16702.20	16702.52	16702.02	16706.75	16710.11
23.5	15946.39	15949.95	15952.93	15955.26	15956.88	15957.71	15957.70	15956.76	15960.31	15962.38
24.0	15195.91	15199.10	15201.74	15203.74	15205.00	15205.43	15204.95	15203.44	15205.70	15206.38
24.5	14447.41	14448.91	14449.80	14450.05	14449.59	14448.36	14446.30	14443.38	14444.81	14444.85
25.0	13699.97	13699.65	13698.69	13697.07	13694.78	13691.80	13688.12	13683.72	13684.39	13683.86
25.5	12953.67	12952.40	12950.50	12947.96	12944.77	12940.90	12936.34	12931.09	12930.64	12929.04
26.0	12214.51	12212.67	12210.24	12207.20	12203.53	12199.20	12194.18	12188.46	12187.05	12184.49
26.5	11487.25	11485.08	11482.40	11479.18	11475.39	11470.98	11465.94	11460.22	11458.50	11455.66
27.0	10775.69	10773.31	10770.52	10767.26	10763.50	10759.19	10754.30	10748.77	10746.98	10744.13
27.5	10084.78	10082.20	10079.28	10075.96	10072.19	10067.93	10063.14	10057.77	10055.90	10053.04
28.0	9415.71	9412.84	9409.68	9406.17	9402.28	9397.95	9393.15	9387.83	9385.94	9383.13
28.5	8770.25	8766.72	8762.92	8758.81	8754.37	8749.59	8744.43	8738.88	8737.03	8734.41
29.0	8151.63	8147.49	8143.07	8138.37	8133.38	8128.11	8122.54	8116.70	8114.78	8112.24
29.5	7564.72	7560.41	7555.78	7550.85	7545.61	7540.09	7534.27	7528.18	7525.84	7522.93
30.0	7006.38	7002.15	6997.58	6992.68	6987.45	6981.90	6976.03	6969.84	6967.03	6963.63
30.5	6473.15	6469.28	6465.11	6460.62	6455.82	6450.67	6445.18	6439.33	6436.22	6432.48
31.0	5970.89	5967.43	5963.71	5959.69	5955.37	5950.69	5945.64	5940.19	5936.84	5932.83
31.5	5504.00	5500.89	5497.53	5493.86	5489.86	5485.48	5480.69	5475.46	5471.75	5467.36
32.0	5073.38	5070.23	5066.78	5063.02	5058.91	5054.44	5049.57	5044.29	5040.60	5036.28
32.5	4686.10	4681.50	4676.49	4671.13	4665.49	4659.60	4653.54	4647.35	4645.01	4642.35
33.0	4328.02	4322.44	4316.40	4310.00	4303.37	4296.60	4289.83	4283.16	4281.90	4280.57
33.5	3981.88	3978.05	3973.89	3969.44	3964.74	3959.84	3954.79	3949.64	3947.23	3944.59
34.0	3664.00	3662.62	3661.08	3659.34	3657.34	3655.02	3652.33	3649.20	3645.46	3641.19
34.5	3389.96	3390.61	3391.27	3391.81	3392.08	3391.94	3391.25	3389.86	3386.37	3382.00
35.0	3144.65	3146.39	3148.25	3150.03	3151.56	3152.65	3153.12	3152.78	3149.96	3146.07
35.5	2917.21	2917.51	2917.82	2918.04	2918.05	2917.76	2917.06	2915.86	2913.52	2910.50
36.0	2710.45	2708.91	2707.26	2705.47	2703.54	2701.46	2699.24	2696.85	2694.93	2692.79
36.5	2524.95	2523.19	2521.29	2519.28	2517.15	2514.93	2512.62	2510.23	2508.54	2506.74
37.0	2356.49	2354.95	2353.32	2351.59	2349.76	2347.85	2345.85	2343.77	2342.24	2340.59
37.5	2201.04	2199.74	2198.34	2196.84	2195.26	2193.58	2191.82	2189.98	2188.60	2187.09

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38.0	2058.51	2057.44	2056.28	2055.04	2053.71	2052.29	2050.77	2049.16	2047.89	2046.49
38.5	1928.03	1927.03	1925.97	1924.85	1923.66	1922.41	1921.07	1919.66	1918.44	1917.11
39.0	1807.82	1806.81	1805.77	1804.69	1803.57	1802.39	1801.16	1799.87	1798.73	1797.50
39.5	1695.96	1694.88	1693.75	1692.57	1691.34	1690.08	1688.77	1687.43	1686.49	1685.50
40.0	1592.02	1590.89	1589.67	1588.40	1587.08	1585.73	1584.36	1582.99	1582.30	1581.58
40.5	1494.69	1493.64	1492.53	1491.39	1490.23	1489.07	1487.93	1486.82	1486.40	1486.01
41.0	1404.69	1403.70	1402.67	1401.63	1400.59	1399.57	1398.59	1397.67	1397.42	1397.21
41.5	1323.64	1322.45	1321.18	1319.87	1318.52	1317.18	1315.86	1314.59	1314.08	1313.61
42.0	1247.56	1246.25	1244.83	1243.33	1241.76	1240.17	1238.58	1237.02	1236.25	1235.51
42.5	1171.78	1170.82	1169.79	1168.70	1167.57	1166.41	1165.24	1164.08	1163.49	1162.90
43.0	1100.04	1099.49	1098.93	1098.34	1097.73	1097.11	1096.47	1095.82	1095.49	1095.13
43.5	1035.13	1034.74	1034.34	1033.93	1033.51	1033.08	1032.62	1032.15	1031.89	1031.59
44.0	975.15	974.81	974.48	974.14	973.78	973.42	973.03	972.62	972.38	972.10
44.5	919.25	918.94	918.63	918.30	917.97	917.62	917.25	916.86	916.64	916.38
45.0	867.01	866.70	866.38	866.05	865.71	865.35	864.98	864.58	864.39	864.15
45.5	817.61	817.32	817.02	816.71	816.39	816.05	815.71	815.34	815.21	815.03
46.0	771.32	771.05	770.78	770.50	770.21	769.91	769.60	769.29	769.20	769.09
46.5	728.22	728.00	727.78	727.54	727.31	727.06	726.80	726.52	726.45	726.34
47.0	687.99	687.83	687.66	687.49	687.31	687.11	686.91	686.69	686.62	686.52
47.5	650.29	650.18	650.07	649.96	649.85	649.73	649.59	649.44	649.44	649.39
48.0	615.24	615.18	615.12	615.07	615.01	614.95	614.87	614.78	614.83	614.84
48.5	582.98	582.93	582.89	582.85	582.81	582.76	582.70	582.62	582.67	582.68
49.0	553.19	553.15	553.12	553.08	553.04	552.99	552.93	552.85	552.90	552.91
49.5	525.57	525.55	525.53	525.51	525.49	525.47	525.43	525.37	525.43	525.46
50.0	500.21	500.20	500.21	500.21	500.22	500.22	500.20	500.17	500.25	500.30
50.5	477.16	477.17	477.20	477.22	477.25	477.27	477.28	477.28	477.37	477.44
51.0	456.23	456.27	456.31	456.36	456.41	456.45	456.48	456.51	456.62	456.70
51.5	437.31	437.37	437.44	437.52	437.59	437.66	437.72	437.77	437.90	437.99
52.0	420.20	420.29	420.38	420.48	420.58	420.68	420.76	420.84	420.97	421.08
52.5	404.69	404.81	404.93	405.06	405.18	405.30	405.41	405.51	405.64	405.75
53.0	390.66	390.79	390.94	391.08	391.23	391.37	391.49	391.60	391.74	391.85
53.5	377.96	378.10	378.24	378.39	378.54	378.69	378.83	378.95	379.11	379.24
54.0	366.42	366.55	366.68	366.83	366.97	367.12	367.26	367.38	367.56	367.71
54.5	355.89	356.00	356.12	356.24	356.36	356.48	356.60	356.72	356.90	357.07
55.0	346.11	346.20	346.30	346.41	346.52	346.62	346.73	346.83	347.03	347.21
55.5	336.72	336.83	336.94	337.05	337.18	337.30	337.42	337.55	337.78	338.01
56.0	327.81	327.94	328.09	328.24	328.40	328.57	328.73	328.89	329.16	329.41
56.5	319.31	319.53	319.76	320.00	320.26	320.51	320.75	320.98	321.23	321.46
57.0	311.27	311.55	311.86	312.18	312.50	312.83	313.13	313.42	313.66	313.85
57.5	303.75	304.01	304.29	304.59	304.89	305.19	305.48	305.75	305.99	306.20
58.0	296.64	296.85	297.08	297.33	297.58	297.84	298.09	298.33	298.59	298.82
58.5	289.85	290.05	290.26	290.49	290.72	290.96	291.21	291.44	291.71	291.96
59.0	283.34	283.53	283.73	283.95	284.18	284.41	284.65	284.88	285.16	285.43
59.5	277.06	277.23	277.43	277.64	277.87	278.10	278.33	278.55	278.83	279.09
60.0	270.96	271.14	271.33	271.53	271.75	271.97	272.20	272.42	272.69	272.95
60.5	265.04	265.20	265.39	265.58	265.79	266.00	266.21	266.42	266.69	266.94
61.0	259.22	259.37	259.54	259.72	259.91	260.11	260.32	260.52	260.78	261.03
61.5	253.42	253.56	253.71	253.88	254.06	254.24	254.44	254.63	254.90	255.16
62.0	247.64	247.77	247.92	248.07	248.24	248.42	248.61	248.80	249.07	249.33
62.5	241.86	242.00	242.16	242.33	242.50	242.69	242.88	243.07	243.34	243.59
63.0	236.10	236.25	236.41	236.58	236.76	236.95	237.14	237.33	237.58	237.82
63.5	230.38	230.50	230.63	230.78	230.94	231.10	231.27	231.44	231.68	231.91
64.0	224.65	224.74	224.84	224.96	225.08	225.22	225.36	225.50	225.73	225.95
64.5	218.84	218.92	219.01	219.11	219.22	219.34	219.48	219.61	219.83	220.05
65.0	213.03	213.09	213.17	213.26	213.36	213.47	213.60	213.73	213.94	214.14
65.5	207.27	207.31	207.36	207.42	207.50	207.60	207.70	207.81	208.02	208.22

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66.0	201.55	201.56	201.59	201.63	201.68	201.75	201.84	201.93	202.13	202.33
66.5	195.86	195.86	195.87	195.90	195.94	196.00	196.07	196.15	196.33	196.52
67.0	190.22	190.20	190.20	190.22	190.25	190.29	190.35	190.42	190.58	190.75
67.5	184.61	184.57	184.55	184.54	184.55	184.57	184.60	184.66	184.81	184.97
68.0	179.06	179.00	178.96	178.93	178.92	178.92	178.94	178.97	179.11	179.26
68.5	173.61	173.55	173.50	173.47	173.45	173.45	173.46	173.48	173.60	173.72
69.0	168.22	168.16	168.11	168.08	168.06	168.06	168.06	168.08	168.17	168.27
69.5	162.83	162.77	162.73	162.69	162.67	162.67	162.67	162.69	162.76	162.85
70.0	157.51	157.45	157.41	157.38	157.36	157.35	157.36	157.38	157.44	157.52
70.5	152.31	152.26	152.22	152.20	152.18	152.18	152.19	152.21	152.26	152.32
71.0	147.21	147.17	147.14	147.12	147.11	147.11	147.12	147.13	147.18	147.22
71.5	142.26	142.22	142.18	142.15	142.13	142.12	142.11	142.12	142.15	142.18
72.0	137.40	137.35	137.31	137.27	137.24	137.22	137.20	137.19	137.21	137.24
72.5	132.61	132.56	132.52	132.49	132.46	132.44	132.43	132.42	132.44	132.46
73.0	127.83	127.79	127.76	127.74	127.72	127.71	127.70	127.69	127.71	127.74
73.5	123.01	122.99	122.97	122.95	122.94	122.93	122.92	122.92	122.94	122.96
74.0	118.18	118.17	118.16	118.16	118.16	118.16	118.16	118.16	118.18	118.19
74.5	113.36	113.38	113.40	113.42	113.44	113.47	113.48	113.50	113.51	113.51
75.0	108.52	108.57	108.61	108.66	108.71	108.75	108.78	108.81	108.81	108.80
75.5	103.63	103.68	103.74	103.80	103.86	103.91	103.96	103.99	103.99	103.98
76.0	98.70	98.76	98.83	98.90	98.96	99.02	99.07	99.11	99.11	99.10
76.5	93.73	93.80	93.88	93.96	94.03	94.10	94.15	94.20	94.21	94.21
77.0	88.77	88.86	88.94	89.02	89.11	89.18	89.25	89.30	89.32	89.32
77.5	83.87	83.97	84.06	84.15	84.25	84.33	84.40	84.46	84.49	84.49
78.0	79.06	79.15	79.25	79.35	79.45	79.53	79.61	79.67	79.69	79.70
78.5	74.38	74.46	74.55	74.64	74.72	74.80	74.87	74.92	74.94	74.94
79.0	69.78	69.85	69.92	69.99	70.07	70.13	70.19	70.23	70.25	70.25
79.5	65.23	65.29	65.36	65.43	65.49	65.55	65.61	65.65	65.67	65.67
80.0	60.72	60.77	60.83	60.89	60.95	61.00	61.06	61.10	61.12	61.13
80.5	56.23	56.26	56.30	56.35	56.40	56.44	56.49	56.53	56.56	56.58
81.0	51.67	51.69	51.72	51.75	51.78	51.82	51.85	51.89	51.93	51.96
81.5	47.01	47.02	47.03	47.05	47.07	47.09	47.12	47.15	47.20	47.25
82.0	42.12	42.12	42.13	42.14	42.15	42.17	42.19	42.22	42.28	42.35
82.5	36.76	36.76	36.76	36.77	36.79	36.82	36.85	36.88	36.96	37.04
83.0	31.29	31.29	31.30	31.32	31.35	31.38	31.41	31.46	31.54	31.63
83.5	25.95	25.96	25.97	25.98	26.01	26.04	26.07	26.11	26.18	26.25
84.0	20.95	20.96	20.97	20.98	21.00	21.03	21.06	21.09	21.14	21.19
84.5	16.68	16.68	16.69	16.70	16.72	16.74	16.76	16.79	16.83	16.87
85.0	12.84	12.84	12.85	12.86	12.87	12.89	12.91	12.94	12.97	13.01
85.5	9.14	9.15	9.16	9.17	9.19	9.21	9.24	9.26	9.30	9.34
86.0	5.97	5.98	6.00	6.02	6.04	6.06	6.09	6.12	6.16	6.19
86.5	3.63	3.65	3.67	3.69	3.71	3.74	3.76	3.78	3.80	3.82
87.0	2.07	2.09	2.11	2.13	2.15	2.17	2.18	2.20	2.20	2.20
87.5	1.50	1.51	1.52	1.53	1.53	1.54	1.55	1.55	1.55	1.55
88.0	1.40	1.40	1.40	1.39	1.39	1.39	1.39	1.39	1.39	1.39
88.5	1.31	1.31	1.30	1.30	1.30	1.29	1.29	1.29	1.29	1.29
89.0	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.30
89.5	1.30	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
90.0	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31

Vert. Angles **Horizontal Angles**

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27278.50	27278.56	27278.63	27278.70	27278.77	27278.85	27278.92	27279.00	27279.08	27279.14
1.0	27276.98	27277.12	27277.28	27277.44	27277.60	27277.77	27277.93	27278.08	27278.21	27278.32

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CANDELA TABULATION - (Cont.)

1.5	27275.63	27275.87	27276.13	27276.41	27276.69	27276.98	27277.27	27277.46	27277.63	27277.77
2.0	27273.91	27274.28	27274.65	27275.04	27275.44	27275.84	27276.24	27276.46	27276.64	27276.79
2.5	27271.52	27272.00	27272.50	27272.98	27273.46	27273.92	27274.35	27274.58	27274.75	27274.86
3.0	27268.05	27268.66	27269.26	27269.82	27270.34	27270.81	27271.22	27271.44	27271.56	27271.60
3.5	27263.30	27263.97	27264.59	27265.15	27265.63	27266.02	27266.29	27266.46	27266.50	27266.44
4.0	27256.50	27257.28	27257.98	27258.59	27259.08	27259.44	27259.64	27259.69	27259.61	27259.39
4.5	27246.57	27247.63	27248.62	27249.50	27250.26	27250.86	27251.30	27251.16	27250.86	27250.41
5.0	27234.31	27235.69	27236.99	27238.19	27239.25	27240.14	27240.83	27240.46	27239.90	27239.15
5.5	27220.84	27222.43	27223.92	27225.28	27226.47	27227.45	27228.20	27227.55	27226.67	27225.59
6.0	27204.21	27206.00	27207.67	27209.18	27210.49	27211.55	27212.33	27211.37	27210.14	27208.68
6.5	27182.76	27184.79	27186.71	27188.47	27190.03	27191.32	27192.30	27191.01	27189.42	27187.56
7.0	27156.77	27159.05	27161.22	27163.23	27165.01	27166.51	27167.67	27166.02	27164.03	27161.73
7.5	27126.57	27129.07	27131.43	27133.59	27135.48	27137.04	27138.20	27136.10	27133.63	27130.83
8.0	27090.36	27093.06	27095.58	27097.84	27099.79	27101.34	27102.42	27099.86	27096.88	27093.55
8.5	27046.84	27049.68	27052.31	27054.65	27056.61	27058.11	27059.07	27056.05	27052.59	27048.74
9.0	26994.89	26997.90	27000.65	27003.06	27005.03	27006.48	27007.32	27003.90	26999.97	26995.63
9.5	26933.33	26936.62	26939.61	26942.20	26944.29	26945.78	26946.57	26942.81	26938.50	26933.73
10.0	26861.08	26864.62	26867.81	26870.54	26872.70	26874.17	26874.85	26870.84	26866.22	26861.09
10.5	26777.47	26781.03	26784.18	26786.80	26788.77	26789.95	26790.24	26786.11	26781.29	26775.90
11.0	26680.06	26683.66	26686.80	26689.33	26691.13	26692.05	26691.97	26687.76	26682.80	26677.21
11.5	26566.57	26570.50	26573.92	26576.69	26578.64	26579.63	26579.50	26575.22	26570.09	26564.26
12.0	26435.82	26440.13	26443.91	26446.97	26449.15	26450.28	26450.18	26445.87	26440.63	26434.62
12.5	26286.85	26291.43	26295.43	26298.65	26300.92	26302.05	26301.87	26297.57	26292.29	26286.19
13.0	26116.75	26121.58	26125.79	26129.18	26131.54	26132.70	26132.45	26128.34	26123.18	26117.15
13.5	25922.50	25927.64	25932.15	25935.81	25938.41	25939.74	25939.59	25936.11	25931.46	25925.84
14.0	25703.42	25708.89	25713.70	25717.63	25720.45	25721.93	25721.85	25718.99	25714.85	25709.63
14.5	25458.08	25463.91	25469.03	25473.18	25476.13	25477.61	25477.37	25474.68	25470.62	25465.39
15.0	25185.75	25191.81	25197.09	25201.32	25204.23	25205.55	25204.99	25202.34	25198.24	25192.94
15.5	24885.42	24891.38	24896.52	24900.54	24903.16	24904.11	24903.10	24900.55	24896.53	24891.26
16.0	24556.46	24562.14	24566.92	24570.50	24572.59	24572.90	24571.15	24568.74	24564.80	24559.56
16.5	24198.65	24203.95	24208.17	24211.02	24212.20	24211.39	24208.30	24206.15	24202.32	24197.07
17.0	23809.69	23814.57	23818.20	23820.25	23820.41	23818.36	23813.79	23811.84	23808.04	23802.68
17.5	23386.53	23391.13	23394.34	23395.80	23395.18	23392.14	23386.33	23384.43	23380.48	23374.79
18.0	22931.11	22935.43	22938.21	22939.09	22937.70	22933.67	22926.66	22924.56	22920.25	22914.07
18.5	22444.72	22448.65	22450.88	22451.03	22448.72	22443.59	22435.27	22432.52	22427.51	22420.58
19.0	21926.24	21929.76	21931.41	21930.78	21927.52	21921.23	21911.54	21908.03	21902.21	21894.45
19.5	21374.16	21377.31	21378.41	21377.06	21372.86	21365.40	21354.30	21350.05	21343.38	21334.66
20.0	20790.89	20793.70	20794.27	20792.18	20787.00	20778.30	20765.68	20761.15	20754.00	20744.65
20.5	20178.24	20180.91	20181.09	20178.31	20172.13	20162.07	20147.69	20143.94	20137.25	20128.06
21.0	19536.48	19538.73	19538.27	19534.60	19527.25	19515.73	19499.58	19497.20	19491.59	19483.21
21.5	18864.98	18865.76	18863.72	18858.40	18849.34	18836.08	18818.17	18817.75	18814.08	18807.58
22.0	18168.21	18167.56	18164.05	18157.25	18146.71	18132.01	18112.73	18114.03	18112.13	18107.39
22.5	17448.55	17447.80	17444.21	17437.30	17426.62	17411.74	17392.19	17393.55	17391.64	17386.86
23.0	16711.60	16710.74	16707.05	16700.04	16689.23	16674.17	16654.37	16655.99	16654.25	16649.56
23.5	15962.48	15960.14	15954.90	15946.28	15933.84	15917.11	15895.64	15899.87	15900.63	15898.33
24.0	15205.02	15201.17	15194.40	15184.25	15170.30	15152.10	15129.24	15136.12	15139.48	15139.69
24.5	14443.02	14438.89	14432.01	14421.94	14408.26	14390.53	14368.32	14375.69	14379.63	14380.48
25.0	13681.68	13677.41	13670.61	13660.85	13647.69	13630.71	13609.49	13617.03	13621.27	13622.52
25.5	12925.85	12920.66	12913.04	12902.59	12888.89	12871.53	12850.13	12859.01	12864.69	12867.45
26.0	12180.38	12174.31	12165.90	12154.75	12140.49	12122.72	12101.08	12111.31	12118.41	12122.66
26.5	11451.33	11445.12	11436.65	11425.56	11411.47	11394.01	11372.82	11383.54	11391.12	11395.85
27.0	10739.85	10733.77	10725.53	10714.77	10701.14	10684.27	10663.83	10674.82	10682.69	10687.72
27.5	10048.81	10042.88	10034.88	10024.49	10011.35	9995.13	9975.49	9987.09	9995.71	10001.60
28.0	9379.06	9373.39	9365.79	9355.93	9343.48	9328.11	9309.51	9321.52	9330.74	9337.36
28.5	8730.70	8725.58	8718.72	8709.81	8698.52	8684.54	8667.57	8679.25	8688.28	8694.85
29.0	8108.77	8104.06	8097.80	8089.68	8079.39	8066.64	8051.14	8062.36	8071.07	8077.46

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29.5	7519.14	7514.19	7507.78	7499.63	7489.46	7476.99	7461.93	7473.08	7481.88	7488.50
30.0	6959.37	6953.98	6947.20	6938.76	6928.41	6915.88	6900.93	6912.11	6921.10	6928.05
30.5	6427.87	6422.15	6415.08	6406.41	6395.93	6383.40	6368.58	6379.90	6389.14	6396.45
31.0	5927.95	5921.96	5914.67	5905.86	5895.32	5882.85	5868.24	5879.44	5888.70	5896.12
31.5	5462.11	5455.80	5448.25	5439.28	5428.72	5416.39	5402.10	5412.58	5421.31	5428.39
32.0	5031.16	5025.07	5017.84	5009.29	4999.26	4987.58	4974.08	4983.25	4990.83	4996.92
32.5	4639.14	4635.14	4630.11	4623.83	4616.07	4606.59	4595.18	4601.69	4606.51	4609.81
33.0	4278.89	4276.60	4273.40	4269.05	4263.26	4255.77	4246.32	4250.83	4253.69	4255.06
33.5	3941.55	3937.95	3933.61	3928.39	3922.12	3914.65	3905.81	3911.78	3916.78	3920.86
34.0	3636.33	3630.85	3624.70	3617.84	3610.23	3601.82	3592.58	3600.35	3607.77	3614.80
34.5	3376.70	3370.42	3363.13	3354.78	3345.33	3334.74	3322.97	3330.01	3336.54	3342.53
35.0	3141.05	3134.81	3127.30	3118.44	3108.16	3096.40	3083.10	3088.88	3093.83	3098.00
35.5	2906.74	2902.16	2896.71	2890.33	2882.95	2874.51	2864.97	2870.09	2874.45	2878.11
36.0	2690.38	2687.65	2684.54	2681.00	2676.99	2672.46	2667.35	2672.03	2676.09	2679.58
36.5	2504.78	2502.60	2500.17	2497.44	2494.35	2490.88	2486.98	2491.44	2495.33	2498.70
37.0	2338.78	2336.75	2334.48	2331.91	2329.01	2325.74	2322.06	2326.43	2330.27	2333.62
37.5	2185.42	2183.54	2181.43	2179.03	2176.31	2173.25	2169.79	2174.12	2177.97	2181.36
38.0	2044.92	2043.14	2041.12	2038.83	2036.23	2033.30	2029.99	2034.27	2038.12	2041.54
38.5	1915.62	1913.97	1912.11	1910.03	1907.70	1905.09	1902.18	1906.28	1909.99	1913.32
39.0	1796.15	1794.66	1793.02	1791.20	1789.18	1786.94	1784.46	1788.38	1791.92	1795.12
39.5	1684.41	1683.21	1681.88	1680.37	1678.67	1676.75	1674.59	1678.42	1681.90	1685.03
40.0	1580.80	1579.94	1578.95	1577.81	1576.48	1574.93	1573.13	1576.89	1580.28	1583.33
40.5	1485.60	1485.15	1484.62	1484.00	1483.24	1482.32	1481.21	1484.81	1488.04	1490.92
41.0	1397.03	1396.84	1396.63	1396.35	1396.00	1395.55	1394.96	1398.34	1401.37	1404.06
41.5	1313.17	1312.72	1312.24	1311.71	1311.09	1310.38	1309.54	1312.62	1315.39	1317.88
42.0	1234.77	1234.00	1233.19	1232.30	1231.32	1230.21	1228.95	1231.75	1234.30	1236.61
42.5	1162.27	1161.59	1160.83	1159.97	1158.98	1157.83	1156.51	1159.17	1161.59	1163.80
43.0	1094.70	1094.18	1093.56	1092.80	1091.89	1090.81	1089.52	1092.10	1094.45	1096.58
43.5	1031.21	1030.74	1030.17	1029.46	1028.59	1027.56	1026.33	1028.85	1031.16	1033.26
44.0	971.74	971.30	970.76	970.08	969.27	968.29	967.13	969.59	971.83	973.87
44.5	916.05	915.63	915.11	914.47	913.69	912.75	911.64	913.91	915.99	917.87
45.0	863.85	863.47	862.99	862.39	861.65	860.76	859.69	861.76	863.63	865.33
45.5	814.80	814.49	814.09	813.57	812.91	812.11	811.13	813.00	814.69	816.21
46.0	768.92	768.68	768.35	767.90	767.32	766.59	765.70	767.40	768.90	770.24
46.5	726.18	725.95	725.63	725.20	724.65	723.95	723.10	724.62	725.97	727.16
47.0	686.36	686.14	685.82	685.40	684.87	684.19	683.37	684.73	685.91	686.95
47.5	649.29	649.11	648.85	648.48	647.99	647.36	646.58	647.75	648.74	649.59
48.0	614.79	614.67	614.45	614.14	613.69	613.11	612.38	613.36	614.18	614.86
48.5	582.64	582.53	582.33	582.03	581.61	581.06	580.35	581.23	581.94	582.52
49.0	552.87	552.76	552.57	552.28	551.88	551.35	550.68	551.46	552.08	552.56
49.5	525.43	525.34	525.18	524.91	524.54	524.05	523.42	524.06	524.55	524.91
50.0	500.30	500.23	500.09	499.86	499.52	499.07	498.49	498.97	499.31	499.53
50.5	477.46	477.42	477.31	477.12	476.83	476.43	475.90	476.18	476.34	476.40
51.0	456.75	456.73	456.65	456.49	456.24	455.89	455.43	455.52	455.50	455.40
51.5	438.05	438.05	437.99	437.86	437.64	437.32	436.90	436.85	436.72	436.52
52.0	421.14	421.16	421.11	421.00	420.80	420.50	420.11	419.97	419.75	419.46
52.5	405.81	405.83	405.78	405.67	405.48	405.19	404.82	404.61	404.33	404.00
53.0	391.92	391.94	391.90	391.79	391.61	391.34	390.98	390.71	390.38	390.01
53.5	379.33	379.38	379.37	379.29	379.15	378.92	378.60	378.24	377.83	377.39
54.0	367.83	367.91	367.94	367.90	367.80	367.61	367.34	366.90	366.42	365.92
54.5	357.20	357.30	357.35	357.34	357.27	357.12	356.88	356.40	355.90	355.37
55.0	347.37	347.49	347.56	347.58	347.53	347.40	347.19	346.68	346.14	345.59
55.5	338.20	338.36	338.46	338.51	338.49	338.38	338.19	337.59	336.96	336.33
56.0	329.63	329.81	329.94	330.00	329.98	329.87	329.67	329.00	328.31	327.62
56.5	321.64	321.78	321.85	321.85	321.77	321.60	321.33	320.71	320.06	319.42
57.0	314.00	314.08	314.11	314.06	313.93	313.72	313.40	312.84	312.26	311.68

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57.5	306.37	306.48	306.54	306.54	306.46	306.30	306.05	305.50	304.93	304.37
58.0	299.02	299.18	299.30	299.35	299.34	299.26	299.10	298.55	298.00	297.44
58.5	292.19	292.37	292.51	292.60	292.63	292.58	292.45	291.93	291.38	290.83
59.0	285.66	285.86	286.02	286.13	286.17	286.15	286.04	285.54	285.02	284.48
59.5	279.33	279.53	279.70	279.81	279.86	279.84	279.75	279.30	278.82	278.32
60.0	273.18	273.38	273.54	273.65	273.70	273.69	273.61	273.21	272.78	272.33
60.5	267.17	267.37	267.53	267.64	267.70	267.70	267.62	267.27	266.89	266.49
61.0	261.26	261.46	261.62	261.74	261.81	261.81	261.75	261.45	261.11	260.75
61.5	255.40	255.61	255.79	255.92	256.00	256.03	255.98	255.72	255.42	255.09
62.0	249.58	249.80	249.99	250.14	250.23	250.26	250.23	250.00	249.73	249.42
62.5	243.82	244.03	244.21	244.34	244.41	244.43	244.38	244.19	243.95	243.68
63.0	238.04	238.23	238.39	238.50	238.57	238.57	238.51	238.36	238.15	237.90
63.5	232.12	232.31	232.47	232.59	232.67	232.69	232.66	232.53	232.34	232.12
64.0	226.16	226.36	226.53	226.66	226.76	226.80	226.80	226.68	226.52	226.32
64.5	220.25	220.44	220.61	220.74	220.84	220.90	220.90	220.82	220.68	220.51
65.0	214.35	214.53	214.70	214.83	214.94	215.00	215.01	214.96	214.85	214.71
65.5	208.42	208.61	208.78	208.93	209.04	209.12	209.15	209.13	209.06	208.95
66.0	202.53	202.72	202.89	203.04	203.17	203.25	203.30	203.31	203.26	203.19
66.5	196.70	196.88	197.05	197.19	197.31	197.39	197.43	197.46	197.44	197.38
67.0	190.92	191.09	191.24	191.37	191.48	191.56	191.61	191.64	191.63	191.60
67.5	185.14	185.30	185.46	185.60	185.72	185.81	185.87	185.90	185.90	185.87
68.0	179.42	179.58	179.74	179.88	180.00	180.11	180.18	180.22	180.22	180.20
68.5	173.85	173.98	174.11	174.23	174.34	174.43	174.49	174.55	174.58	174.59
69.0	168.37	168.47	168.57	168.67	168.76	168.83	168.88	168.96	169.01	169.05
69.5	162.94	163.03	163.12	163.21	163.29	163.37	163.43	163.51	163.57	163.62
70.0	157.60	157.68	157.77	157.85	157.93	158.00	158.06	158.14	158.20	158.25
70.5	152.39	152.45	152.52	152.58	152.64	152.69	152.73	152.80	152.86	152.92
71.0	147.27	147.32	147.37	147.41	147.44	147.47	147.48	147.54	147.60	147.65
71.5	142.22	142.26	142.29	142.32	142.35	142.36	142.37	142.41	142.45	142.48
72.0	137.27	137.30	137.33	137.35	137.37	137.38	137.38	137.39	137.40	137.41
72.5	132.49	132.51	132.53	132.55	132.55	132.55	132.53	132.52	132.50	132.47
73.0	127.76	127.78	127.79	127.80	127.79	127.77	127.74	127.70	127.65	127.60
73.5	122.97	122.99	122.99	122.98	122.96	122.93	122.88	122.84	122.79	122.73
74.0	118.20	118.20	118.19	118.17	118.13	118.07	118.00	117.96	117.90	117.84
74.5	113.50	113.48	113.44	113.38	113.31	113.22	113.10	113.04	112.96	112.87
75.0	108.78	108.73	108.67	108.59	108.48	108.35	108.20	108.10	108.00	107.88
75.5	103.94	103.89	103.82	103.73	103.61	103.46	103.29	103.17	103.05	102.92
76.0	99.07	99.02	98.94	98.84	98.72	98.57	98.38	98.26	98.12	97.98
76.5	94.18	94.14	94.07	93.97	93.84	93.68	93.49	93.36	93.21	93.06
77.0	89.31	89.26	89.20	89.10	88.97	88.81	88.61	88.48	88.32	88.17
77.5	84.47	84.42	84.35	84.25	84.11	83.93	83.72	83.59	83.44	83.28
78.0	79.67	79.62	79.54	79.43	79.29	79.10	78.88	78.75	78.61	78.46
78.5	74.92	74.87	74.79	74.68	74.55	74.37	74.16	74.04	73.90	73.75
79.0	70.23	70.18	70.11	70.02	69.89	69.74	69.54	69.42	69.29	69.15
79.5	65.66	65.62	65.56	65.48	65.37	65.22	65.05	64.93	64.80	64.66
80.0	61.13	61.11	61.06	60.99	60.90	60.78	60.62	60.50	60.37	60.24
80.5	56.59	56.59	56.56	56.52	56.46	56.37	56.26	56.13	56.01	55.88
81.0	51.99	52.01	52.01	52.00	51.97	51.92	51.84	51.72	51.59	51.47
81.5	47.30	47.33	47.36	47.37	47.36	47.34	47.29	47.16	47.03	46.90
82.0	42.41	42.46	42.51	42.54	42.56	42.56	42.54	42.41	42.28	42.15
82.5	37.12	37.19	37.26	37.32	37.36	37.39	37.40	37.29	37.18	37.06
83.0	31.72	31.80	31.88	31.96	32.02	32.07	32.10	32.02	31.94	31.85
83.5	26.32	26.39	26.46	26.51	26.56	26.60	26.62	26.61	26.60	26.57
84.0	21.24	21.29	21.33	21.36	21.39	21.41	21.42	21.47	21.52	21.55
84.5	16.92	16.96	16.99	17.02	17.04	17.06	17.06	17.12	17.17	17.21
85.0	13.05	13.09	13.12	13.15	13.17	13.18	13.18	13.23	13.26	13.29

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CANDELA TABULATION - (Cont.)

85.5	9.38	9.42	9.45	9.47	9.49	9.50	9.51	9.54	9.57	9.59
86.0	6.23	6.26	6.29	6.31	6.33	6.33	6.33	6.37	6.39	6.40
86.5	3.84	3.85	3.86	3.87	3.87	3.86	3.85	3.91	3.95	3.99
87.0	2.20	2.20	2.19	2.18	2.17	2.16	2.14	2.21	2.27	2.32
87.5	1.55	1.55	1.54	1.54	1.53	1.53	1.52	1.56	1.60	1.63
88.0	1.39	1.40	1.40	1.40	1.41	1.41	1.41	1.42	1.43	1.43
88.5	1.29	1.30	1.30	1.30	1.31	1.31	1.31	1.32	1.32	1.32
89.0	1.30	1.30	1.30	1.30	1.30	1.31	1.31	1.31	1.31	1.31
89.5	1.29	1.29	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
90.0	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32

**Vert.
Angles**

Horizontal Angles

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27279.20	27279.25	27279.29	27279.32	27279.35	27279.37	27279.40	27279.44	27279.47	27279.49
1.0	27278.42	27278.49	27278.56	27278.61	27278.64	27278.66	27278.69	27278.72	27278.73	27278.72
1.5	27277.90	27278.00	27278.08	27278.13	27278.16	27278.16	27278.15	27278.11	27278.05	27277.96
2.0	27276.91	27277.00	27277.05	27277.07	27277.06	27277.01	27276.92	27276.80	27276.64	27276.44
2.5	27274.92	27274.93	27274.89	27274.80	27274.66	27274.49	27274.32	27274.12	27273.88	27273.61
3.0	27271.56	27271.45	27271.27	27271.02	27270.73	27270.39	27270.13	27269.84	27269.51	27269.14
3.5	27266.28	27266.04	27265.71	27265.32	27264.87	27264.37	27263.99	27263.57	27263.12	27262.63
4.0	27259.07	27258.64	27258.13	27257.54	27256.88	27256.18	27255.63	27255.06	27254.45	27253.81
4.5	27249.83	27249.13	27248.33	27247.45	27246.51	27245.53	27244.75	27243.96	27243.15	27242.32
5.0	27238.25	27237.22	27236.08	27234.85	27233.57	27232.24	27231.21	27230.17	27229.12	27228.08
5.5	27224.32	27222.91	27221.39	27219.77	27218.10	27216.40	27215.08	27213.77	27212.47	27211.20
6.0	27207.02	27205.20	27203.25	27201.21	27199.12	27197.01	27195.39	27193.81	27192.27	27190.76
6.5	27185.48	27183.22	27180.83	27178.35	27175.82	27173.30	27171.42	27169.60	27167.83	27166.12
7.0	27159.20	27156.46	27153.60	27150.64	27147.64	27144.67	27142.52	27140.46	27138.46	27136.55
7.5	27127.77	27124.51	27121.11	27117.62	27114.12	27110.66	27108.20	27105.85	27103.60	27101.45
8.0	27089.95	27086.13	27082.18	27078.14	27074.11	27070.14	27067.35	27064.70	27062.18	27059.78
8.5	27044.60	27040.22	27035.71	27031.12	27026.54	27022.06	27018.93	27015.98	27013.19	27010.55
9.0	26990.97	26986.06	26981.00	26975.86	26970.75	26965.75	26962.29	26959.04	26955.96	26953.06
9.5	26928.60	26923.20	26917.62	26911.96	26906.33	26900.83	26897.03	26893.45	26890.07	26886.88
10.0	26855.55	26849.71	26843.67	26837.54	26831.43	26825.46	26821.34	26817.46	26813.79	26810.34
10.5	26770.07	26763.89	26757.49	26750.98	26744.48	26738.12	26733.75	26729.63	26725.73	26722.06
11.0	26671.12	26664.64	26657.91	26651.06	26644.21	26637.49	26632.92	26628.62	26624.55	26620.71
11.5	26557.88	26551.06	26543.96	26536.71	26529.47	26522.37	26517.69	26513.29	26509.14	26505.23
12.0	26427.99	26420.88	26413.47	26405.89	26398.31	26390.87	26386.11	26381.64	26377.44	26373.49
12.5	26279.43	26272.17	26264.57	26256.79	26249.00	26241.35	26236.47	26231.90	26227.60	26223.56
13.0	26110.41	26103.12	26095.46	26087.59	26079.68	26071.91	26066.95	26062.29	26057.90	26053.77
13.5	25919.41	25912.35	25904.84	25897.05	25889.16	25881.37	25876.36	25871.62	25867.12	25862.85
14.0	25703.50	25696.66	25689.30	25681.60	25673.76	25665.96	25661.04	25656.36	25651.90	25647.65
14.5	25459.22	25452.30	25444.84	25437.04	25429.12	25421.29	25416.76	25412.52	25408.52	25404.75
15.0	25186.64	25179.58	25171.97	25164.05	25156.04	25148.17	25144.08	25140.31	25136.84	25133.64
15.5	24884.98	24877.93	24870.33	24862.42	24854.45	24846.63	24842.80	24839.34	24836.19	24833.33
16.0	24553.27	24546.18	24538.53	24530.57	24522.53	24514.67	24510.91	24507.53	24504.50	24501.77
16.5	24190.67	24183.38	24175.45	24167.16	24158.76	24150.52	24146.48	24142.82	24139.53	24136.57
17.0	23796.03	23788.38	23780.00	23771.20	23762.24	23753.42	23748.94	23744.85	23741.14	23737.79
17.5	23367.68	23359.46	23350.44	23340.92	23331.22	23321.66	23316.76	23312.29	23308.23	23304.59
18.0	22906.34	22897.40	22887.60	22877.26	22866.72	22856.33	22850.88	22845.90	22841.38	22837.32
18.5	22412.07	22402.33	22391.71	22380.53	22369.16	22357.94	22351.60	22345.76	22340.41	22335.57
19.0	21885.07	21874.45	21862.93	21850.86	21838.60	21826.50	21819.28	21812.59	21806.44	21800.85
19.5	21324.27	21312.58	21299.98	21286.83	21273.54	21260.46	21252.82	21245.78	21239.36	21233.55
20.0	20733.50	20720.95	20707.42	20693.31	20679.04	20665.01	20656.93	20649.51	20642.74	20636.63
20.5	20116.80	20103.90	20089.81	20074.96	20059.80	20044.77	20035.79	20027.39	20019.60	20012.43

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21.0	19472.50	19459.91	19445.90	19430.91	19415.40	19399.84	19389.95	19380.51	19371.55	19363.14
21.5	18798.66	18787.74	18775.22	18761.55	18747.11	18732.35	18721.88	18711.59	18701.57	18691.91
22.0	18100.21	18090.94	18079.98	18067.71	18054.49	18040.73	18030.03	18019.27	18008.59	17998.13
22.5	17379.58	17370.20	17359.13	17346.75	17333.46	17319.65	17309.39	17299.11	17288.93	17278.97
23.0	16642.33	16632.97	16621.89	16609.51	16596.23	16582.48	16572.76	16563.07	16553.50	16544.16
23.5	15893.34	15886.05	15876.86	15866.14	15854.29	15841.70	15832.00	15822.08	15812.08	15802.15
24.0	15137.09	15132.05	15124.93	15116.07	15105.85	15094.62	15084.95	15074.82	15064.40	15053.89
24.5	14378.58	14374.28	14367.92	14359.84	14350.40	14339.95	14330.77	14321.11	14311.14	14301.08
25.0	13621.13	13617.41	13611.70	13604.34	13595.65	13585.98	13577.47	13568.48	13559.20	13549.83
25.5	12867.62	12865.48	12861.34	12855.51	12848.29	12839.99	12832.20	12823.81	12815.04	12806.08
26.0	12124.34	12123.71	12121.07	12116.68	12110.85	12103.83	12096.72	12088.91	12080.62	12072.06
26.5	11398.00	11397.85	11395.68	11391.77	11386.41	11379.88	11373.27	11365.97	11358.19	11350.16
27.0	10690.19	10690.37	10688.54	10684.99	10680.00	10673.85	10667.62	10660.72	10653.35	10645.75
27.5	10005.01	10006.19	10005.39	10002.86	9998.86	9993.63	9987.62	9980.85	9973.57	9966.00
28.0	9341.62	9343.73	9343.90	9342.36	9339.33	9335.02	9329.23	9322.62	9315.42	9307.90
28.5	8699.17	8701.45	8701.89	8700.69	8698.06	8694.20	8688.85	8682.70	8675.98	8668.95
29.0	8081.72	8084.05	8084.64	8083.69	8081.38	8077.92	8073.05	8067.43	8061.28	8054.82
29.5	7493.13	7495.92	7497.06	7496.71	7495.05	7492.26	7487.91	7482.79	7477.11	7471.10
30.0	6933.12	6936.44	6938.18	6938.47	6937.48	6935.35	6931.39	6926.63	6921.29	6915.58
30.5	6401.94	6405.75	6408.01	6408.83	6408.36	6406.72	6402.74	6397.92	6392.48	6386.66
31.0	5901.82	5905.90	5908.48	5909.66	5909.55	5908.26	5904.27	5899.42	5893.95	5888.09
31.5	5433.90	5437.95	5440.62	5442.00	5442.20	5441.30	5437.73	5433.36	5428.40	5423.06
32.0	5001.59	5004.96	5007.10	5008.12	5008.11	5007.16	5004.11	5000.39	4996.18	4991.67
32.5	4611.72	4612.40	4612.01	4610.69	4608.61	4605.93	4603.14	4600.01	4596.67	4593.25
33.0	4255.15	4254.13	4252.18	4249.50	4246.28	4242.69	4240.39	4237.98	4235.55	4233.18
33.5	3924.10	3926.56	3928.31	3929.40	3929.90	3929.87	3929.08	3927.89	3926.39	3924.67
34.0	3621.37	3627.45	3632.97	3637.87	3642.10	3645.59	3646.04	3645.79	3644.93	3643.57
34.5	3347.98	3352.86	3357.16	3360.86	3363.94	3366.38	3366.25	3365.57	3364.45	3363.03
35.0	3101.44	3104.20	3106.33	3107.88	3108.90	3109.44	3108.52	3107.30	3105.88	3104.40
35.5	2881.11	2883.51	2885.35	2886.69	2887.58	2888.06	2887.61	2886.89	2885.99	2885.02
36.0	2682.53	2684.97	2686.96	2688.52	2689.70	2690.52	2690.74	2690.70	2690.46	2690.06
36.5	2501.58	2503.99	2505.98	2507.59	2508.84	2509.77	2510.22	2510.44	2510.45	2510.31
37.0	2336.50	2338.95	2341.00	2342.68	2344.02	2345.07	2345.66	2346.01	2346.18	2346.19
37.5	2184.32	2186.88	2189.07	2190.91	2192.43	2193.66	2194.42	2194.94	2195.27	2195.45
38.0	2044.57	2047.23	2049.54	2051.53	2053.20	2054.59	2055.49	2056.16	2056.63	2056.94
38.5	1916.28	1918.91	1921.22	1923.22	1924.93	1926.37	1927.36	1928.12	1928.69	1929.10
39.0	1797.99	1800.54	1802.79	1804.76	1806.46	1807.91	1808.94	1809.77	1810.40	1810.88
39.5	1687.83	1690.33	1692.53	1694.45	1696.12	1697.55	1698.57	1699.39	1700.04	1700.54
40.0	1586.05	1588.46	1590.58	1592.44	1594.05	1595.43	1596.47	1597.31	1598.00	1598.57
40.5	1493.49	1495.75	1497.74	1499.48	1500.99	1502.29	1503.52	1504.57	1505.46	1506.21
41.0	1406.45	1408.56	1410.41	1412.03	1413.45	1414.69	1416.09	1417.33	1418.42	1419.35
41.5	1320.12	1322.11	1323.88	1325.45	1326.85	1328.10	1329.47	1330.71	1331.81	1332.77
42.0	1238.71	1240.60	1242.32	1243.86	1245.25	1246.51	1247.80	1248.97	1250.03	1250.98
42.5	1165.81	1167.63	1169.28	1170.77	1172.13	1173.36	1174.61	1175.76	1176.80	1177.74
43.0	1098.53	1100.29	1101.88	1103.32	1104.63	1105.81	1107.03	1108.14	1109.15	1110.06
43.5	1035.16	1036.89	1038.45	1039.85	1041.12	1042.26	1043.40	1044.43	1045.36	1046.18
44.0	975.72	977.39	978.89	980.24	981.46	982.54	983.61	984.57	985.42	986.17
44.5	919.58	921.13	922.52	923.78	924.92	925.94	926.97	927.91	928.76	929.51
45.0	866.87	868.26	869.51	870.65	871.68	872.61	873.63	874.56	875.41	876.18
45.5	817.56	818.77	819.86	820.84	821.72	822.52	823.49	824.39	825.23	825.99
46.0	771.42	772.45	773.38	774.19	774.93	775.60	776.51	777.37	778.17	778.92
46.5	728.19	729.11	729.91	730.62	731.26	731.85	732.69	733.49	734.24	734.95
47.0	687.85	688.64	689.32	689.93	690.48	690.98	691.74	692.47	693.17	693.83
47.5	650.31	650.92	651.44	651.89	652.30	652.67	653.34	654.00	654.64	655.26
48.0	615.41	615.85	616.22	616.52	616.78	617.03	617.62	618.20	618.78	619.35
48.5	582.97	583.32	583.60	583.82	584.00	584.17	584.69	585.21	585.73	586.25

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CANDELA TABULATION - (Cont.)

49.0	552.93	553.20	553.40	553.55	553.67	553.79	554.24	554.70	555.16	555.64
49.5	525.16	525.32	525.42	525.48	525.52	525.55	525.95	526.36	526.79	527.23
50.0	499.65	499.69	499.68	499.65	499.60	499.57	499.92	500.30	500.71	501.15
50.5	476.37	476.29	476.17	476.04	475.91	475.82	476.17	476.56	476.99	477.46
51.0	455.24	455.04	454.82	454.61	454.42	454.28	454.62	455.02	455.48	455.98
51.5	436.26	435.98	435.69	435.41	435.17	434.99	435.29	435.67	436.11	436.60
52.0	419.14	418.80	418.46	418.14	417.86	417.64	417.91	418.24	418.65	419.12
52.5	403.63	403.26	402.89	402.55	402.26	402.03	402.25	402.56	402.93	403.36
53.0	389.61	389.21	388.83	388.47	388.17	387.93	388.12	388.40	388.74	389.15
53.5	376.94	376.49	376.06	375.68	375.34	375.09	375.27	375.54	375.88	376.29
54.0	365.41	364.92	364.45	364.04	363.68	363.41	363.59	363.86	364.21	364.63
54.5	354.85	354.35	353.88	353.46	353.11	352.84	353.01	353.27	353.61	354.02
55.0	345.05	344.54	344.06	343.64	343.29	343.02	343.19	343.46	343.80	344.21
55.5	335.72	335.13	334.59	334.11	333.71	333.41	333.64	333.97	334.39	334.88
56.0	326.95	326.30	325.71	325.18	324.75	324.43	324.70	325.09	325.58	326.14
56.5	318.79	318.19	317.64	317.16	316.76	316.47	316.73	317.09	317.55	318.08
57.0	311.12	310.58	310.10	309.67	309.32	309.06	309.30	309.63	310.04	310.52
57.5	303.82	303.30	302.83	302.41	302.08	301.83	302.08	302.43	302.86	303.35
58.0	296.89	296.37	295.90	295.48	295.15	294.90	295.18	295.56	296.01	296.51
58.5	290.29	289.77	289.30	288.89	288.55	288.30	288.59	288.97	289.42	289.93
59.0	283.96	283.45	282.99	282.58	282.25	282.00	282.29	282.67	283.12	283.62
59.5	277.83	277.36	276.92	276.54	276.22	275.99	276.28	276.66	277.10	277.60
60.0	271.89	271.45	271.05	270.69	270.40	270.19	270.48	270.85	271.28	271.77
60.5	266.09	265.69	265.32	264.99	264.72	264.52	264.81	265.17	265.59	266.06
61.0	260.39	260.02	259.68	259.38	259.12	258.94	259.21	259.56	259.96	260.41
61.5	254.74	254.39	254.06	253.77	253.52	253.33	253.59	253.93	254.31	254.74
62.0	249.10	248.77	248.45	248.16	247.91	247.72	247.97	248.29	248.66	249.07
62.5	243.38	243.08	242.78	242.50	242.27	242.09	242.35	242.66	243.02	243.42
63.0	237.63	237.35	237.08	236.83	236.61	236.45	236.71	237.02	237.39	237.78
63.5	231.87	231.61	231.36	231.13	230.93	230.78	231.05	231.37	231.74	232.14
64.0	226.09	225.86	225.63	225.42	225.24	225.11	225.39	225.73	226.10	226.50
64.5	220.32	220.11	219.91	219.72	219.57	219.47	219.76	220.11	220.49	220.90
65.0	214.55	214.37	214.20	214.04	213.92	213.83	214.14	214.50	214.89	215.31
65.5	208.82	208.67	208.52	208.39	208.29	208.23	208.54	208.90	209.29	209.71
66.0	203.08	202.97	202.85	202.75	202.67	202.63	202.94	203.30	203.69	204.10
66.5	197.30	197.22	197.13	197.05	197.00	196.98	197.31	197.68	198.07	198.49
67.0	191.54	191.47	191.41	191.36	191.34	191.35	191.68	192.06	192.46	192.88
67.5	185.83	185.78	185.73	185.70	185.69	185.72	186.08	186.46	186.88	187.31
68.0	180.17	180.14	180.11	180.10	180.12	180.17	180.53	180.93	181.35	181.79
68.5	174.59	174.59	174.60	174.62	174.67	174.75	175.12	175.52	175.95	176.39
69.0	169.08	169.11	169.15	169.21	169.28	169.39	169.76	170.16	170.58	171.01
69.5	163.66	163.70	163.76	163.82	163.91	164.03	164.39	164.77	165.17	165.58
70.0	158.30	158.35	158.41	158.48	158.57	158.69	159.03	159.40	159.78	160.17
70.5	152.97	153.02	153.09	153.17	153.27	153.39	153.73	154.09	154.47	154.86
71.0	147.69	147.75	147.81	147.89	148.00	148.12	148.46	148.82	149.20	149.58
71.5	142.51	142.55	142.60	142.66	142.75	142.87	143.19	143.53	143.90	144.27
72.0	137.42	137.43	137.46	137.50	137.57	137.67	137.97	138.30	138.64	138.99
72.5	132.45	132.44	132.44	132.46	132.51	132.58	132.87	133.18	133.51	133.85
73.0	127.56	127.52	127.49	127.49	127.51	127.56	127.82	128.12	128.43	128.75
73.5	122.67	122.63	122.59	122.57	122.57	122.60	122.83	123.09	123.37	123.67
74.0	117.78	117.72	117.67	117.63	117.62	117.63	117.83	118.07	118.32	118.58
74.5	112.78	112.70	112.63	112.58	112.55	112.54	112.74	112.96	113.21	113.47
75.0	107.77	107.67	107.58	107.51	107.46	107.44	107.63	107.85	108.09	108.35
75.5	102.80	102.68	102.57	102.48	102.42	102.39	102.56	102.76	102.99	103.23
76.0	97.84	97.71	97.59	97.48	97.41	97.36	97.52	97.70	97.91	98.14
76.5	92.91	92.76	92.63	92.51	92.42	92.36	92.50	92.66	92.86	93.07

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CANDELA TABULATION - (Cont.)

77.0	88.00	87.85	87.70	87.58	87.48	87.40	87.53	87.68	87.87	88.07
77.5	83.12	82.97	82.83	82.70	82.59	82.52	82.63	82.78	82.95	83.14
78.0	78.31	78.16	78.02	77.90	77.80	77.72	77.83	77.96	78.13	78.31
78.5	73.61	73.46	73.33	73.21	73.11	73.04	73.14	73.26	73.41	73.59
79.0	69.01	68.87	68.74	68.62	68.53	68.46	68.55	68.67	68.81	68.97
79.5	64.53	64.39	64.27	64.17	64.08	64.02	64.10	64.20	64.33	64.48
80.0	60.11	59.99	59.88	59.78	59.70	59.65	59.72	59.81	59.93	60.07
80.5	55.76	55.64	55.54	55.45	55.38	55.33	55.40	55.49	55.60	55.73
81.0	51.35	51.24	51.14	51.06	51.00	50.96	51.02	51.11	51.22	51.34
81.5	46.78	46.67	46.56	46.48	46.41	46.37	46.43	46.52	46.63	46.76
82.0	42.03	41.91	41.80	41.71	41.64	41.59	41.66	41.74	41.85	41.97
82.5	36.95	36.84	36.74	36.65	36.58	36.53	36.59	36.66	36.75	36.86
83.0	31.76	31.67	31.59	31.52	31.47	31.42	31.47	31.52	31.60	31.69
83.5	26.55	26.52	26.49	26.47	26.45	26.44	26.48	26.52	26.58	26.65
84.0	21.58	21.60	21.62	21.64	21.66	21.68	21.72	21.76	21.81	21.86
84.5	17.24	17.26	17.29	17.31	17.33	17.35	17.39	17.43	17.48	17.53
85.0	13.31	13.32	13.33	13.34	13.35	13.36	13.40	13.44	13.49	13.55
85.5	9.59	9.60	9.60	9.59	9.59	9.59	9.61	9.64	9.67	9.71
86.0	6.41	6.41	6.41	6.40	6.39	6.38	6.39	6.40	6.41	6.43
86.5	4.02	4.04	4.05	4.07	4.07	4.07	4.08	4.09	4.09	4.09
87.0	2.37	2.41	2.44	2.47	2.49	2.51	2.52	2.52	2.52	2.51
87.5	1.66	1.68	1.70	1.72	1.73	1.74	1.74	1.74	1.74	1.73
88.0	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.43
88.5	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.30	1.30	1.30
89.0	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.31	1.30	1.30
89.5	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29	1.28	1.28
90.0	1.32	1.32	1.31	1.31	1.31	1.30	1.30	1.30	1.30	1.30

Vert. Angles **Horizontal Angles**

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27279.50	27279.50	27279.49	27279.47	27279.44	27279.36	27279.28	27279.18	27279.08	27278.97
1.0	27278.70	27278.65	27278.59	27278.51	27278.40	27278.20	27277.99	27277.76	27277.52	27277.27
1.5	27277.83	27277.68	27277.50	27277.29	27277.05	27276.67	27276.27	27275.85	27275.41	27274.96
2.0	27276.20	27275.93	27275.62	27275.27	27274.88	27274.32	27273.74	27273.13	27272.51	27271.88
2.5	27273.29	27272.93	27272.54	27272.10	27271.63	27270.98	27270.31	27269.61	27268.89	27268.17
3.0	27268.74	27268.29	27267.81	27267.29	27266.73	27266.00	27265.24	27264.46	27263.67	27262.87
3.5	27262.09	27261.52	27260.91	27260.26	27259.56	27258.65	27257.71	27256.76	27255.79	27254.82
4.0	27253.13	27252.41	27251.65	27250.86	27250.03	27248.99	27247.92	27246.83	27245.74	27244.66
4.5	27241.47	27240.61	27239.73	27238.84	27237.94	27236.96	27235.97	27234.99	27234.00	27233.04
5.0	27227.05	27226.03	27225.01	27224.02	27223.05	27222.14	27221.26	27220.40	27219.55	27218.72
5.5	27209.95	27208.74	27207.55	27206.41	27205.31	27204.34	27203.42	27202.54	27201.69	27200.87
6.0	27189.29	27187.88	27186.51	27185.20	27183.95	27182.85	27181.81	27180.82	27179.87	27178.97
6.5	27164.46	27162.87	27161.34	27159.87	27158.46	27157.13	27155.86	27154.65	27153.50	27152.41
7.0	27134.71	27132.93	27131.23	27129.60	27128.03	27126.44	27124.92	27123.46	27122.08	27120.77
7.5	27099.39	27097.43	27095.56	27093.77	27092.05	27090.25	27088.54	27086.91	27085.36	27083.92
8.0	27057.51	27055.35	27053.29	27051.33	27049.46	27047.45	27045.54	27043.72	27042.01	27040.42
8.5	27008.04	27005.67	27003.42	27001.28	26999.23	26996.93	26994.74	26992.66	26990.72	26988.92
9.0	26950.32	26947.73	26945.27	26942.93	26940.70	26938.10	26935.62	26933.28	26931.09	26929.09
9.5	26883.88	26881.03	26878.34	26875.78	26873.35	26870.49	26867.77	26865.20	26862.81	26860.64
10.0	26807.08	26804.00	26801.08	26798.32	26795.69	26792.60	26789.66	26786.91	26784.35	26782.03
10.5	26718.59	26715.32	26712.22	26709.29	26706.51	26703.26	26700.17	26697.28	26694.62	26692.21
11.0	26617.09	26613.68	26610.44	26607.38	26604.48	26601.06	26597.82	26594.78	26591.98	26589.47
11.5	26501.55	26498.06	26494.76	26491.63	26488.63	26484.94	26481.41	26478.10	26475.02	26472.23
12.0	26369.76	26366.23	26362.88	26359.69	26356.63	26352.70	26348.93	26345.37	26342.05	26339.03

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CANDELA TABULATION - (Cont.)

12.5	26219.74	26216.14	26212.72	26209.47	26206.36	26202.39	26198.59	26195.00	26191.67	26188.64
13.0	26049.86	26046.18	26042.68	26039.36	26036.20	26032.23	26028.46	26024.90	26021.62	26018.66
13.5	25858.79	25854.95	25851.29	25847.80	25844.48	25840.44	25836.61	25833.02	25829.71	25826.76
14.0	25643.60	25639.74	25636.06	25632.55	25629.20	25625.13	25621.27	25617.66	25614.34	25611.39
14.5	25401.19	25397.82	25394.61	25391.55	25388.60	25384.63	25380.83	25377.23	25373.92	25370.94
15.0	25130.65	25127.86	25125.22	25122.70	25120.27	25116.52	25112.88	25109.43	25106.22	25103.32
15.5	24830.71	24828.29	24826.04	24823.92	24821.88	24818.51	24815.25	24812.16	24809.31	24806.77
16.0	24499.31	24497.09	24495.05	24493.18	24491.43	24488.50	24485.72	24483.13	24480.78	24478.73
16.5	24133.91	24131.52	24129.38	24127.46	24125.73	24123.30	24121.07	24119.07	24117.32	24115.88
17.0	23734.78	23732.11	23729.74	23727.67	23725.87	23723.90	23722.20	23720.79	23719.66	23718.84
17.5	23301.34	23298.47	23295.98	23293.86	23292.07	23290.44	23289.15	23288.20	23287.57	23287.30
18.0	22833.72	22830.56	22827.85	22825.57	22823.73	22822.33	22821.35	22820.77	22820.58	22820.78
18.5	22331.24	22327.44	22324.16	22321.42	22319.21	22317.95	22317.20	22316.94	22317.14	22317.78
19.0	21795.82	21791.39	21787.55	21784.34	21781.75	21780.49	21779.84	21779.75	21780.18	21781.11
19.5	21228.38	21223.84	21219.94	21216.69	21214.10	21212.71	21211.95	21211.77	21212.14	21213.01
20.0	20631.18	20626.40	20622.29	20618.84	20616.06	20614.37	20613.32	20612.87	20612.98	20613.63
20.5	20005.92	20000.08	19994.93	19990.48	19986.76	19984.48	19982.90	19981.99	19981.72	19982.06
21.0	19355.32	19348.16	19341.68	19335.95	19331.00	19328.00	19325.80	19324.37	19323.65	19323.61
21.5	18682.73	18674.10	18666.14	18658.92	18652.54	18648.84	18646.03	18644.07	18642.92	18642.55
22.0	17988.00	17978.36	17969.31	17961.01	17953.56	17949.24	17945.88	17943.43	17941.86	17941.14
22.5	17269.34	17260.16	17251.53	17243.58	17236.41	17231.71	17227.88	17224.93	17222.85	17221.62
23.0	16535.14	16526.54	16518.46	16511.01	16504.26	16499.40	16495.36	16492.16	16489.80	16488.31
23.5	15792.44	15783.09	15774.23	15766.01	15758.57	15753.91	15750.16	15747.33	15745.40	15744.37
24.0	15043.49	15033.38	15023.76	15014.82	15006.73	15002.49	14999.28	14997.05	14995.80	14995.49
24.5	14291.11	14281.43	14272.24	14263.73	14256.08	14252.48	14249.90	14248.32	14247.69	14247.99
25.0	13540.55	13531.56	13523.04	13515.21	13508.22	13505.24	13503.27	13502.27	13502.21	13503.05
25.5	12797.15	12788.45	12780.18	12772.55	12765.76	12763.03	12761.32	12760.59	12760.80	12761.94
26.0	12063.46	12055.04	12047.00	12039.57	12032.96	12030.52	12029.10	12028.66	12029.18	12030.64
26.5	11342.09	11334.20	11326.71	11319.83	11313.78	11312.05	11311.33	11311.58	11312.77	11314.88
27.0	10638.13	10630.70	10623.70	10617.33	10611.81	10610.84	10610.88	10611.90	10613.83	10616.65
27.5	9958.38	9950.96	9943.95	9937.61	9932.16	9931.79	9932.47	9934.14	9936.73	9940.19
28.0	9300.30	9292.88	9285.87	9279.54	9274.12	9274.18	9275.31	9277.45	9280.51	9284.41
28.5	8661.84	8654.89	8648.35	8642.45	8637.43	8637.63	8638.88	8641.09	8644.19	8648.12
29.0	8048.28	8041.89	8035.87	8030.44	8025.83	8026.01	8027.17	8029.24	8032.17	8035.90
29.5	7464.97	7458.94	7453.22	7448.03	7443.58	7443.53	7444.38	7446.09	7448.62	7451.92
30.0	6909.71	6903.89	6898.35	6893.28	6888.90	6888.72	6889.40	6890.89	6893.17	6896.19
30.5	6380.67	6374.75	6369.11	6363.99	6359.60	6359.89	6361.08	6363.11	6365.91	6369.43
31.0	5882.08	5876.15	5870.53	5865.45	5861.15	5861.96	5863.70	5866.28	5869.62	5873.65
31.5	5417.58	5412.17	5407.04	5402.42	5398.51	5399.38	5401.10	5403.61	5406.82	5410.66
32.0	4987.03	4982.47	4978.17	4974.30	4971.06	4971.82	4973.34	4975.54	4978.39	4981.82
32.5	4589.87	4586.66	4583.75	4581.26	4579.32	4580.00	4581.33	4583.30	4585.87	4589.03
33.0	4230.94	4228.92	4227.18	4225.81	4224.88	4225.33	4226.31	4227.83	4229.89	4232.52
33.5	3922.81	3920.90	3919.02	3917.26	3915.70	3915.17	3914.96	3915.08	3915.57	3916.46
34.0	3641.84	3639.82	3637.64	3635.40	3633.21	3632.41	3631.78	3631.34	3631.09	3631.06
34.5	3361.43	3359.78	3358.18	3356.78	3355.69	3357.71	3360.09	3362.74	3365.59	3368.55
35.0	3102.99	3101.77	3100.87	3100.42	3100.53	3105.09	3110.19	3115.66	3121.35	3127.12
35.5	2884.06	2883.22	2882.57	2882.23	2882.27	2885.37	2888.86	2892.62	2896.57	2900.59
36.0	2689.56	2689.04	2688.53	2688.11	2687.82	2688.81	2689.96	2691.26	2692.69	2694.22
36.5	2510.06	2509.76	2509.44	2509.16	2508.97	2509.75	2510.65	2511.64	2512.72	2513.87
37.0	2346.11	2345.97	2345.83	2345.71	2345.68	2346.69	2347.80	2348.99	2350.22	2351.48
37.5	2195.52	2195.52	2195.49	2195.47	2195.50	2196.49	2197.56	2198.67	2199.80	2200.92
38.0	2057.12	2057.23	2057.28	2057.33	2057.40	2058.34	2059.33	2060.33	2061.34	2062.32
38.5	1929.37	1929.55	1929.66	1929.74	1929.83	1930.61	1931.40	1932.20	1932.97	1933.71
39.0	1811.22	1811.46	1811.63	1811.76	1811.86	1812.56	1813.26	1813.94	1814.59	1815.18
39.5	1700.94	1701.25	1701.51	1701.76	1702.01	1703.08	1704.17	1705.24	1706.26	1707.21
40.0	1599.03	1599.42	1599.78	1600.13	1600.49	1601.78	1603.07	1604.35	1605.57	1606.69

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CANDELA TABULATION - (Cont.)

40.5	1506.83	1507.34	1507.75	1508.08	1508.34	1508.82	1509.25	1509.62	1509.92	1510.15
41.0	1420.12	1420.74	1421.20	1421.51	1421.68	1421.39	1420.99	1420.48	1419.90	1419.27
41.5	1333.60	1334.30	1334.87	1335.30	1335.61	1335.64	1335.56	1335.38	1335.11	1334.77
42.0	1251.83	1252.57	1253.23	1253.79	1254.27	1254.80	1255.25	1255.61	1255.87	1256.04
42.5	1178.58	1179.33	1179.98	1180.55	1181.05	1181.61	1182.09	1182.48	1182.78	1182.98
43.0	1110.86	1111.57	1112.19	1112.73	1113.18	1113.66	1114.06	1114.38	1114.60	1114.72
43.5	1046.90	1047.54	1048.08	1048.55	1048.93	1049.38	1049.74	1050.03	1050.23	1050.33
44.0	986.82	987.39	987.87	988.27	988.60	989.00	989.34	989.60	989.78	989.87
44.5	930.17	930.75	931.24	931.66	932.01	932.39	932.71	932.94	933.10	933.16
45.0	876.87	877.48	878.01	878.46	878.85	879.21	879.51	879.72	879.85	879.89
45.5	826.68	827.30	827.85	828.33	828.72	829.06	829.32	829.50	829.59	829.61
46.0	779.60	780.22	780.78	781.26	781.67	781.99	782.23	782.39	782.47	782.48
46.5	735.61	736.21	736.75	737.24	737.66	738.00	738.26	738.46	738.59	738.64
47.0	694.45	695.03	695.56	696.04	696.47	696.85	697.17	697.42	697.61	697.73
47.5	655.85	656.41	656.93	657.42	657.86	658.29	658.66	658.98	659.23	659.42
48.0	619.91	620.45	620.96	621.45	621.91	622.38	622.81	623.18	623.51	623.76
48.5	586.76	587.26	587.74	588.21	588.66	589.15	589.61	590.03	590.40	590.71
49.0	556.11	556.58	557.04	557.49	557.94	558.46	558.95	559.41	559.83	560.20
49.5	527.69	528.15	528.62	529.09	529.55	530.13	530.70	531.24	531.73	532.18
50.0	501.61	502.08	502.58	503.08	503.59	504.23	504.85	505.46	506.03	506.55
50.5	477.97	478.49	479.04	479.60	480.17	480.83	481.48	482.10	482.69	483.23
51.0	456.53	457.10	457.70	458.31	458.93	459.61	460.27	460.90	461.50	462.05
51.5	437.14	437.72	438.33	438.95	439.60	440.30	440.99	441.66	442.30	442.89
52.0	419.64	420.20	420.80	421.42	422.07	422.80	423.52	424.22	424.90	425.53
52.5	403.86	404.39	404.97	405.58	406.21	406.95	407.68	408.40	409.10	409.75
53.0	389.62	390.14	390.70	391.29	391.91	392.64	393.37	394.09	394.80	395.46
53.5	376.77	377.29	377.86	378.46	379.09	379.80	380.52	381.23	381.91	382.56
54.0	365.11	365.64	366.22	366.83	367.47	368.15	368.84	369.51	370.17	370.79
54.5	354.48	355.00	355.56	356.15	356.76	357.39	358.02	358.64	359.24	359.82
55.0	344.68	345.20	345.76	346.34	346.94	347.51	348.07	348.63	349.16	349.67
55.5	335.43	336.03	336.66	337.31	337.96	338.48	338.98	339.46	339.92	340.35
56.0	326.77	327.43	328.13	328.83	329.53	330.01	330.46	330.89	331.28	331.64
56.5	318.66	319.29	319.94	320.60	321.26	321.73	322.18	322.60	322.99	323.34
57.0	311.05	311.62	312.21	312.82	313.42	313.87	314.30	314.70	315.08	315.43
57.5	303.88	304.45	305.04	305.63	306.21	306.58	306.92	307.24	307.53	307.79
58.0	297.07	297.65	298.24	298.83	299.39	299.68	299.94	300.16	300.35	300.51
58.5	290.49	291.06	291.65	292.23	292.78	293.03	293.25	293.43	293.58	293.70
59.0	284.17	284.73	285.31	285.87	286.41	286.65	286.84	287.00	287.13	287.23
59.5	278.13	278.69	279.24	279.79	280.31	280.52	280.69	280.83	280.93	281.00
60.0	272.28	272.82	273.36	273.88	274.37	274.57	274.73	274.85	274.93	275.00
60.5	266.55	267.07	267.58	268.08	268.55	268.74	268.90	269.02	269.11	269.17
61.0	260.88	261.37	261.86	262.34	262.79	262.98	263.14	263.26	263.35	263.42
61.5	255.19	255.66	256.12	256.58	257.01	257.19	257.34	257.45	257.54	257.61
62.0	249.51	249.95	250.40	250.83	251.24	251.42	251.55	251.66	251.74	251.80
62.5	243.84	244.28	244.71	245.13	245.52	245.68	245.80	245.90	245.97	246.01
63.0	238.20	238.62	239.04	239.45	239.83	239.98	240.09	240.17	240.22	240.25
63.5	232.55	232.97	233.39	233.80	234.17	234.31	234.41	234.48	234.52	234.53
64.0	226.92	227.35	227.77	228.17	228.54	228.67	228.76	228.82	228.84	228.85
64.5	221.33	221.76	222.18	222.58	222.94	223.06	223.14	223.19	223.20	223.19
65.0	215.74	216.17	216.59	216.99	217.35	217.46	217.53	217.57	217.58	217.56
65.5	210.13	210.56	210.97	211.36	211.72	211.84	211.91	211.95	211.97	211.95
66.0	204.52	204.94	205.35	205.74	206.09	206.21	206.29	206.34	206.37	206.36
66.5	198.91	199.33	199.74	200.12	200.48	200.60	200.69	200.74	200.77	200.77
67.0	193.31	193.74	194.15	194.54	194.89	195.02	195.11	195.17	195.20	195.19
67.5	187.75	188.18	188.60	189.00	189.36	189.49	189.58	189.64	189.66	189.66
68.0	182.24	182.68	183.10	183.50	183.87	184.00	184.10	184.15	184.17	184.17

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68.5	176.83	177.26	177.68	178.08	178.44	178.57	178.66	178.72	178.75	178.74
69.0	171.44	171.87	172.27	172.65	173.00	173.14	173.23	173.29	173.32	173.32
69.5	165.99	166.39	166.78	167.14	167.47	167.62	167.72	167.79	167.83	167.84
70.0	160.56	160.94	161.31	161.66	161.98	162.12	162.23	162.30	162.34	162.36
70.5	155.25	155.63	155.99	156.33	156.64	156.76	156.86	156.91	156.94	156.94
71.0	149.97	150.34	150.70	151.03	151.33	151.44	151.52	151.56	151.56	151.55
71.5	144.64	145.00	145.34	145.66	145.95	146.05	146.12	146.15	146.15	146.12
72.0	139.35	139.69	140.03	140.34	140.61	140.71	140.77	140.79	140.79	140.77
72.5	134.19	134.53	134.85	135.16	135.43	135.53	135.59	135.62	135.62	135.60
73.0	129.08	129.41	129.72	130.02	130.29	130.39	130.45	130.49	130.50	130.49
73.5	123.96	124.26	124.55	124.82	125.07	125.17	125.23	125.27	125.29	125.29
74.0	118.85	119.12	119.39	119.64	119.87	119.96	120.03	120.07	120.10	120.11
74.5	113.74	114.01	114.27	114.52	114.75	114.84	114.91	114.96	114.98	114.99
75.0	108.62	108.89	109.16	109.41	109.65	109.74	109.82	109.87	109.90	109.91
75.5	103.49	103.75	104.01	104.26	104.49	104.59	104.68	104.75	104.79	104.82
76.0	98.38	98.62	98.87	99.11	99.34	99.46	99.56	99.64	99.71	99.76
76.5	93.30	93.54	93.77	94.01	94.23	94.36	94.47	94.57	94.65	94.72
77.0	88.28	88.51	88.74	88.97	89.19	89.33	89.46	89.57	89.67	89.75
77.5	83.35	83.57	83.79	84.02	84.24	84.41	84.56	84.70	84.83	84.94
78.0	78.51	78.72	78.94	79.16	79.38	79.57	79.74	79.91	80.06	80.20
78.5	73.78	73.98	74.19	74.41	74.62	74.81	74.99	75.16	75.32	75.46
79.0	69.15	69.34	69.54	69.75	69.95	70.14	70.32	70.49	70.65	70.79
79.5	64.65	64.82	65.01	65.20	65.40	65.58	65.77	65.94	66.11	66.26
80.0	60.22	60.38	60.56	60.74	60.92	61.11	61.30	61.48	61.65	61.81
80.5	55.88	56.04	56.20	56.38	56.56	56.74	56.93	57.11	57.28	57.44
81.0	51.49	51.64	51.80	51.97	52.15	52.33	52.52	52.69	52.86	53.01
81.5	46.90	47.05	47.22	47.39	47.56	47.74	47.92	48.10	48.26	48.41
82.0	42.11	42.26	42.42	42.59	42.76	42.94	43.12	43.29	43.45	43.60
82.5	36.98	37.12	37.26	37.41	37.56	37.74	37.92	38.09	38.25	38.39
83.0	31.79	31.90	32.02	32.15	32.28	32.46	32.63	32.80	32.96	33.11
83.5	26.73	26.81	26.90	27.00	27.11	27.28	27.46	27.63	27.79	27.94
84.0	21.92	21.98	22.05	22.13	22.22	22.38	22.55	22.72	22.89	23.04
84.5	17.59	17.66	17.73	17.81	17.90	18.06	18.23	18.40	18.56	18.71
85.0	13.61	13.67	13.75	13.83	13.92	14.07	14.23	14.39	14.54	14.68
85.5	9.75	9.80	9.86	9.92	9.99	10.11	10.25	10.38	10.51	10.63
86.0	6.44	6.47	6.50	6.53	6.57	6.65	6.74	6.84	6.92	7.01
86.5	4.09	4.09	4.08	4.08	4.08	4.09	4.10	4.11	4.11	4.12
87.0	2.49	2.47	2.45	2.42	2.38	2.33	2.28	2.22	2.16	2.10
87.5	1.72	1.71	1.69	1.67	1.65	1.61	1.57	1.53	1.49	1.45
88.0	1.43	1.43	1.42	1.42	1.42	1.41	1.41	1.41	1.40	1.40
88.5	1.30	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.30	1.30
89.0	1.29	1.29	1.29	1.29	1.28	1.28	1.28	1.28	1.28	1.28
89.5	1.28	1.28	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
90.0	1.30	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29

**Vert.
Angles**

Horizontal Angles

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27278.85	27278.73	27278.62	27278.50	27278.38	27278.26	27278.14	27278.04	27277.95	27277.88
1.0	27277.01	27276.75	27276.49	27276.25	27276.00	27275.77	27275.56	27275.37	27275.21	27275.07
1.5	27274.52	27274.08	27273.64	27273.23	27272.88	27272.55	27272.26	27272.00	27271.78	27271.59
2.0	27271.25	27270.64	27270.04	27269.48	27269.03	27268.61	27268.24	27267.92	27267.63	27267.41
2.5	27267.45	27266.75	27266.06	27265.40	27264.86	27264.36	27263.90	27263.49	27263.12	27262.79
3.0	27262.07	27261.28	27260.52	27259.78	27259.17	27258.61	27258.08	27257.59	27257.15	27256.75
3.5	27253.87	27252.94	27252.04	27251.19	27250.55	27249.98	27249.45	27248.98	27248.56	27248.19

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4.0	27243.60	27242.58	27241.60	27240.68	27240.00	27239.40	27238.86	27238.38	27237.96	27237.61
4.5	27232.09	27231.17	27230.28	27229.43	27228.64	27227.89	27227.20	27226.56	27225.98	27225.47
5.0	27217.91	27217.12	27216.35	27215.59	27214.68	27213.80	27212.95	27212.15	27211.40	27210.72
5.5	27200.07	27199.30	27198.54	27197.81	27196.85	27195.93	27195.03	27194.19	27193.41	27192.70
6.0	27178.12	27177.30	27176.51	27175.75	27174.77	27173.84	27172.96	27172.14	27171.40	27170.75
6.5	27151.38	27150.41	27149.49	27148.63	27147.65	27146.74	27145.91	27145.17	27144.53	27144.00
7.0	27119.54	27118.40	27117.34	27116.37	27115.41	27114.55	27113.81	27113.18	27112.69	27112.33
7.5	27082.57	27081.32	27080.19	27079.17	27078.25	27077.46	27076.80	27076.28	27075.92	27075.72
8.0	27038.95	27037.62	27036.42	27035.38	27034.55	27033.88	27033.38	27033.04	27032.88	27032.89
8.5	26987.28	26985.82	26984.55	26983.48	26982.87	26982.47	26982.28	26982.29	26982.51	26982.91
9.0	26927.28	26925.69	26924.34	26923.25	26922.89	26922.80	26922.96	26923.36	26923.98	26924.81
9.5	26858.69	26857.01	26855.60	26854.50	26854.35	26854.50	26854.94	26855.64	26856.58	26857.74
10.0	26779.98	26778.21	26776.77	26775.66	26775.68	26776.05	26776.73	26777.69	26778.91	26780.37
10.5	26690.09	26688.29	26686.84	26685.76	26685.93	26686.48	26687.36	26688.55	26690.01	26691.71
11.0	26587.26	26585.39	26583.89	26582.81	26583.10	26583.79	26584.84	26586.21	26587.88	26589.80
11.5	26469.77	26467.68	26465.99	26464.75	26465.08	26465.86	26467.03	26468.57	26470.43	26472.57
12.0	26336.34	26334.05	26332.19	26330.82	26331.20	26332.06	26333.35	26335.04	26337.07	26339.40
12.5	26185.98	26183.71	26181.89	26180.57	26181.07	26182.06	26183.50	26185.33	26187.50	26189.98
13.0	26016.07	26013.90	26012.18	26010.97	26011.65	26012.83	26014.45	26016.46	26018.82	26021.45
13.5	25824.19	25822.07	25820.43	25819.32	25820.27	25821.74	25823.67	25825.99	25828.64	25831.57
14.0	25608.84	25606.75	25605.18	25604.16	25605.40	25607.18	25609.43	25612.07	25615.04	25618.26
14.5	25368.36	25366.23	25364.61	25363.57	25365.07	25367.11	25369.61	25372.49	25375.67	25379.06
15.0	25100.80	25098.72	25097.15	25096.15	25097.89	25100.18	25102.91	25105.99	25109.33	25112.83
15.5	24804.59	24802.84	24801.58	24800.87	24802.94	24805.53	24808.54	24811.86	24815.39	24819.04
16.0	24477.04	24475.76	24474.93	24474.63	24476.91	24479.66	24482.79	24486.19	24489.77	24493.44
16.5	24114.77	24114.03	24113.68	24113.77	24115.81	24118.24	24120.98	24123.96	24127.10	24130.32
17.0	23718.34	23718.18	23718.36	23718.89	23720.72	23722.87	23725.26	23727.86	23730.60	23733.43
17.5	23287.35	23287.76	23288.49	23289.57	23291.75	23294.21	23296.90	23299.77	23302.76	23305.81
18.0	22821.34	22822.28	22823.56	22825.19	22827.81	22830.70	22833.82	22837.09	22840.47	22843.89
18.5	22318.83	22320.27	22322.06	22324.20	22327.03	22330.13	22333.42	22336.86	22340.38	22343.95
19.0	21782.48	21784.27	21786.42	21788.91	21791.89	21795.12	21798.54	21802.11	21805.76	21809.46
19.5	21214.36	21216.15	21218.32	21220.87	21223.98	21227.36	21230.95	21234.72	21238.59	21242.52
20.0	20614.78	20616.41	20618.46	20620.93	20624.09	20627.56	20631.30	20635.25	20639.35	20643.54
20.5	19982.96	19984.39	19986.32	19988.71	19991.72	19995.11	19998.83	20002.84	20007.08	20011.52
21.0	19324.22	19325.44	19327.23	19329.55	19332.42	19335.75	19339.49	19343.61	19348.06	19352.80
21.5	18642.91	18643.96	18645.66	18647.98	18650.90	18654.36	18658.31	18662.72	18667.53	18672.71
22.0	17941.22	17942.08	17943.68	17945.98	17949.16	17952.95	17957.32	17962.20	17967.56	17973.34
22.5	17221.24	17221.70	17222.99	17225.11	17228.93	17233.50	17238.73	17244.54	17250.87	17257.64
23.0	16487.69	16487.95	16489.11	16491.18	16495.63	16500.90	16506.91	16513.55	16520.74	16528.38
23.5	15744.25	15745.03	15746.70	15749.27	15753.79	15759.12	15765.18	15771.89	15779.17	15786.93
24.0	14996.09	14997.59	14999.96	15003.16	15007.67	15012.95	15018.91	15025.51	15032.69	15040.38
24.5	14249.19	14251.24	14254.12	14257.80	14262.52	14267.96	14274.04	14280.74	14287.97	14295.71
25.0	13504.76	13507.31	13510.65	13514.76	13519.90	13525.71	13532.14	13539.13	13546.64	13554.60
25.5	12763.97	12766.88	12770.61	12775.16	12781.15	12787.84	12795.16	12803.05	12811.42	12820.20
26.0	12033.01	12036.28	12040.42	12045.40	12052.17	12059.67	12067.81	12076.49	12085.63	12095.13
26.5	11317.87	11321.70	11326.34	11331.77	11338.70	11346.30	11354.47	11363.14	11372.22	11381.61
27.0	10620.29	10624.71	10629.86	10635.71	10642.58	10650.03	10657.97	10666.34	10675.05	10684.04
27.5	9944.43	9949.41	9955.04	9961.28	9968.07	9975.33	9983.00	9991.02	9999.32	10007.83
28.0	9289.08	9294.44	9300.40	9306.91	9313.66	9320.81	9328.30	9336.08	9344.06	9352.21
28.5	8652.80	8658.16	8664.13	8670.64	8677.67	8685.10	8692.85	8700.85	8709.02	8717.29
29.0	8040.37	8045.52	8051.29	8057.63	8064.93	8072.64	8080.68	8088.95	8097.37	8105.84
29.5	7455.95	7460.66	7466.00	7471.94	7479.20	7486.90	7494.95	7503.25	7511.71	7520.21
30.0	6899.91	6904.30	6909.32	6914.93	6921.94	6929.40	6937.22	6945.30	6953.53	6961.82
30.5	6373.61	6378.38	6383.70	6389.51	6395.99	6402.83	6409.95	6417.27	6424.72	6432.23
31.0	5878.29	5883.46	5889.08	5895.08	5901.02	5907.21	5913.60	5920.14	5926.79	5933.49
31.5	5415.07	5419.96	5425.26	5430.91	5436.42	5442.17	5448.10	5454.18	5460.37	5466.62

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32.0	4985.79	4990.22	4995.07	5000.29	5005.82	5011.61	5017.60	5023.74	5029.98	5036.27
32.5	4592.75	4597.02	4601.82	4607.12	4614.23	4621.72	4629.45	4637.31	4645.17	4652.94
33.0	4235.72	4239.50	4243.88	4248.86	4256.83	4265.25	4273.96	4282.79	4291.57	4300.15
33.5	3917.76	3919.52	3921.74	3924.48	3929.62	3935.18	3941.04	3947.09	3953.22	3959.32
34.0	3631.25	3631.69	3632.38	3633.33	3635.08	3637.08	3639.32	3641.77	3644.42	3647.23
34.5	3371.56	3374.52	3377.36	3380.02	3380.23	3380.26	3380.20	3380.11	3380.10	3380.24
35.0	3132.80	3138.23	3143.28	3147.77	3147.46	3146.60	3145.37	3143.90	3142.35	3140.89
35.5	2904.60	2908.48	2912.15	2915.51	2915.99	2916.15	2916.08	2915.85	2915.55	2915.26
36.0	2695.82	2697.48	2699.16	2700.86	2702.29	2703.70	2705.09	2706.45	2707.78	2709.09
36.5	2515.06	2516.30	2517.55	2518.81	2519.91	2521.00	2522.07	2523.11	2524.13	2525.12
37.0	2352.74	2353.98	2355.17	2356.28	2356.77	2357.18	2357.53	2357.82	2358.09	2358.33
37.5	2202.02	2203.07	2204.05	2204.93	2205.11	2205.19	2205.19	2205.13	2205.02	2204.90
38.0	2063.25	2064.12	2064.89	2065.55	2065.49	2065.32	2065.06	2064.73	2064.36	2063.96
38.5	1934.39	1935.01	1935.53	1935.95	1935.68	1935.32	1934.88	1934.40	1933.90	1933.41
39.0	1815.72	1816.17	1816.53	1816.79	1816.32	1815.77	1815.15	1814.49	1813.84	1813.21
39.5	1708.05	1708.77	1709.32	1709.69	1708.92	1707.98	1706.90	1705.74	1704.53	1703.31
40.0	1607.69	1608.53	1609.17	1609.58	1608.67	1607.55	1606.24	1604.80	1603.27	1601.70
40.5	1510.30	1510.38	1510.36	1510.25	1509.85	1509.36	1508.79	1508.16	1507.47	1506.73
41.0	1418.61	1417.94	1417.30	1416.70	1416.75	1416.85	1416.98	1417.11	1417.23	1417.31
41.5	1334.38	1333.93	1333.46	1332.97	1332.68	1332.39	1332.08	1331.76	1331.42	1331.07
42.0	1256.11	1256.07	1255.93	1255.66	1254.91	1254.07	1253.15	1252.18	1251.18	1250.18
42.5	1183.08	1183.06	1182.92	1182.67	1181.85	1180.94	1179.94	1178.90	1177.82	1176.74
43.0	1114.75	1114.67	1114.48	1114.18	1113.41	1112.54	1111.60	1110.62	1109.60	1108.59
43.5	1050.35	1050.26	1050.06	1049.76	1048.98	1048.11	1047.17	1046.18	1045.17	1044.15
44.0	989.86	989.77	989.57	989.26	988.48	987.61	986.67	985.69	984.69	983.69
44.5	933.14	933.02	932.81	932.49	931.72	930.86	929.94	928.98	928.00	927.02
45.0	879.84	879.71	879.48	879.15	878.40	877.57	876.68	875.75	874.81	873.87
45.5	829.54	829.38	829.14	828.80	828.10	827.32	826.49	825.63	824.75	823.88
46.0	782.40	782.25	782.01	781.69	781.03	780.31	779.54	778.74	777.93	777.12
46.5	738.61	738.50	738.32	738.05	737.43	736.74	736.01	735.24	734.47	733.69
47.0	697.77	697.73	697.62	697.41	696.83	696.18	695.47	694.73	693.97	693.22
47.5	659.54	659.58	659.53	659.40	658.85	658.23	657.56	656.84	656.11	655.37
48.0	623.95	624.06	624.09	624.03	623.52	622.94	622.30	621.61	620.90	620.18
48.5	590.96	591.12	591.21	591.20	590.74	590.20	589.59	588.94	588.26	587.58
49.0	560.50	560.73	560.87	560.92	560.51	560.01	559.44	558.83	558.18	557.52
49.5	532.57	532.88	533.11	533.24	532.87	532.41	531.88	531.30	530.68	530.04
50.0	507.01	507.40	507.70	507.89	507.57	507.16	506.66	506.11	505.52	504.90
50.5	483.71	484.12	484.43	484.65	484.38	484.01	483.56	483.05	482.50	481.92
51.0	462.54	462.95	463.29	463.52	463.28	462.95	462.55	462.08	461.57	461.02
51.5	443.42	443.87	444.24	444.52	444.31	444.01	443.63	443.18	442.69	442.16
52.0	426.10	426.60	427.01	427.33	427.15	426.89	426.53	426.11	425.64	425.13
52.5	410.35	410.88	411.33	411.68	411.56	411.35	411.05	410.68	410.25	409.78
53.0	396.07	396.62	397.09	397.47	397.41	397.25	397.01	396.70	396.33	395.91
53.5	383.17	383.71	384.19	384.57	384.55	384.45	384.27	384.01	383.70	383.34
54.0	371.37	371.89	372.35	372.72	372.75	372.70	372.57	372.37	372.12	371.81
54.5	360.35	360.83	361.26	361.61	361.68	361.68	361.61	361.48	361.29	361.05
55.0	350.15	350.58	350.95	351.27	351.38	351.42	351.40	351.33	351.20	351.02
55.5	340.74	341.10	341.41	341.67	341.79	341.87	341.89	341.86	341.78	341.66
56.0	331.97	332.26	332.50	332.71	332.84	332.93	332.97	332.97	332.93	332.84
56.5	323.67	323.95	324.20	324.40	324.51	324.58	324.60	324.58	324.51	324.41
57.0	315.75	316.03	316.27	316.47	316.56	316.60	316.60	316.56	316.48	316.36
57.5	308.02	308.22	308.39	308.53	308.63	308.70	308.73	308.73	308.70	308.63
58.0	300.65	300.76	300.85	300.92	301.04	301.14	301.22	301.26	301.28	301.27
58.5	293.80	293.87	293.93	293.97	294.08	294.18	294.26	294.31	294.33	294.33
59.0	287.30	287.35	287.39	287.41	287.51	287.60	287.67	287.71	287.74	287.73
59.5	281.06	281.09	281.10	281.10	281.20	281.28	281.34	281.39	281.41	281.40

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60.0	275.03	275.05	275.05	275.04	275.13	275.20	275.26	275.30	275.32	275.31
60.5	269.21	269.23	269.23	269.22	269.30	269.37	269.43	269.46	269.47	269.45
61.0	263.46	263.49	263.49	263.49	263.57	263.63	263.68	263.71	263.71	263.68
61.5	257.65	257.67	257.68	257.67	257.75	257.81	257.86	257.89	257.89	257.86
62.0	251.83	251.85	251.85	251.84	251.92	251.98	252.02	252.05	252.05	252.02
62.5	246.03	246.04	246.03	246.01	246.07	246.12	246.15	246.17	246.16	246.12
63.0	240.26	240.25	240.23	240.19	240.24	240.28	240.30	240.31	240.29	240.25
63.5	234.53	234.51	234.47	234.43	234.47	234.50	234.52	234.52	234.50	234.45
64.0	228.83	228.80	228.75	228.69	228.73	228.76	228.78	228.78	228.76	228.72
64.5	223.16	223.11	223.05	222.99	223.02	223.05	223.07	223.08	223.06	223.02
65.0	217.52	217.46	217.40	217.32	217.36	217.39	217.41	217.42	217.41	217.37
65.5	211.92	211.87	211.81	211.74	211.78	211.81	211.83	211.84	211.82	211.79
66.0	206.34	206.29	206.24	206.18	206.22	206.25	206.26	206.27	206.25	206.21
66.5	200.74	200.70	200.65	200.59	200.62	200.64	200.65	200.64	200.62	200.57
67.0	195.17	195.13	195.07	195.01	195.03	195.04	195.04	195.02	194.99	194.93
67.5	189.64	189.59	189.53	189.46	189.47	189.47	189.47	189.44	189.40	189.33
68.0	184.14	184.09	184.02	183.95	183.95	183.94	183.92	183.88	183.83	183.76
68.5	178.71	178.66	178.59	178.51	178.49	178.46	178.42	178.37	178.30	178.20
69.0	173.29	173.24	173.17	173.09	173.05	173.00	172.94	172.86	172.77	172.66
69.5	167.82	167.78	167.72	167.64	167.58	167.52	167.43	167.33	167.22	167.09
70.0	162.35	162.31	162.26	162.18	162.12	162.03	161.94	161.82	161.70	161.56
70.5	156.92	156.87	156.80	156.72	156.65	156.57	156.48	156.38	156.26	156.13
71.0	151.50	151.44	151.36	151.27	151.21	151.14	151.06	150.97	150.87	150.76
71.5	146.08	146.01	145.93	145.84	145.79	145.73	145.66	145.59	145.50	145.41
72.0	140.72	140.66	140.59	140.50	140.46	140.41	140.35	140.28	140.21	140.13
72.5	135.57	135.51	135.44	135.36	135.31	135.26	135.20	135.13	135.05	134.97
73.0	130.46	130.41	130.35	130.28	130.23	130.17	130.11	130.03	129.96	129.87
73.5	125.27	125.24	125.19	125.14	125.09	125.04	124.99	124.92	124.86	124.78
74.0	120.10	120.08	120.04	120.00	119.96	119.92	119.88	119.82	119.76	119.70
74.5	114.99	114.97	114.94	114.90	114.86	114.82	114.77	114.71	114.65	114.59
75.0	109.91	109.89	109.86	109.83	109.78	109.74	109.68	109.62	109.56	109.50
75.5	104.84	104.84	104.83	104.80	104.76	104.71	104.65	104.58	104.51	104.44
76.0	99.79	99.81	99.82	99.81	99.77	99.71	99.65	99.58	99.50	99.42
76.5	94.77	94.80	94.82	94.83	94.78	94.73	94.67	94.59	94.51	94.43
77.0	89.82	89.87	89.90	89.92	89.88	89.83	89.76	89.69	89.60	89.52
77.5	85.03	85.11	85.17	85.21	85.17	85.10	85.03	84.94	84.84	84.73
78.0	80.32	80.42	80.50	80.56	80.51	80.44	80.35	80.25	80.14	80.02
78.5	75.59	75.70	75.78	75.85	75.80	75.73	75.65	75.54	75.43	75.31
79.0	70.92	71.03	71.12	71.19	71.14	71.07	70.98	70.88	70.77	70.65
79.5	66.40	66.51	66.60	66.67	66.61	66.53	66.42	66.31	66.18	66.05
80.0	61.95	62.07	62.16	62.23	62.16	62.06	61.94	61.80	61.66	61.51
80.5	57.58	57.70	57.79	57.86	57.79	57.68	57.56	57.42	57.28	57.13
81.0	53.15	53.27	53.37	53.43	53.35	53.25	53.13	52.99	52.84	52.69
81.5	48.54	48.66	48.75	48.81	48.73	48.62	48.49	48.35	48.19	48.04
82.0	43.73	43.83	43.92	43.98	43.88	43.77	43.63	43.48	43.32	43.15
82.5	38.52	38.63	38.71	38.77	38.66	38.52	38.37	38.20	38.02	37.83
83.0	33.24	33.35	33.43	33.48	33.37	33.22	33.05	32.86	32.67	32.47
83.5	28.08	28.19	28.28	28.34	28.23	28.09	27.93	27.75	27.56	27.36
84.0	23.18	23.30	23.40	23.46	23.37	23.25	23.10	22.94	22.76	22.57
84.5	18.85	18.97	19.07	19.14	19.06	18.95	18.82	18.68	18.51	18.34
85.0	14.81	14.93	15.02	15.09	15.02	14.93	14.82	14.69	14.55	14.40
85.5	10.74	10.84	10.92	10.98	10.92	10.85	10.75	10.64	10.52	10.40
86.0	7.09	7.15	7.21	7.25	7.20	7.14	7.06	6.98	6.89	6.79
86.5	4.12	4.12	4.11	4.10	4.07	4.03	3.98	3.94	3.89	3.85
87.0	2.04	1.98	1.93	1.88	1.85	1.83	1.82	1.81	1.80	1.80
87.5	1.41	1.37	1.34	1.31	1.29	1.28	1.28	1.28	1.28	1.28

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88.0	1.40	1.40	1.39	1.39	1.39	1.39	1.39	1.38	1.38	1.38
88.5	1.30	1.30	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
89.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
89.5	1.27	1.27	1.27	1.28	1.28	1.28	1.28	1.28	1.28	1.28
90.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29

Vert. Horizontal Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27277.82	27277.78	27277.77	27277.78	27277.82	27277.88	27277.95	27278.04	27278.14	27278.26
1.0	27274.96	27274.89	27274.86	27274.89	27274.96	27275.07	27275.21	27275.37	27275.56	27275.77
1.5	27271.46	27271.36	27271.33	27271.36	27271.46	27271.59	27271.78	27272.00	27272.26	27272.55
2.0	27267.22	27267.10	27267.03	27267.10	27267.22	27267.41	27267.63	27267.92	27268.24	27268.61
2.5	27262.52	27262.29	27262.13	27262.29	27262.52	27262.79	27263.12	27263.49	27263.90	27264.36
3.0	27256.39	27256.08	27255.82	27256.08	27256.39	27256.75	27257.15	27257.59	27258.08	27258.61
3.5	27247.87	27247.60	27247.39	27247.60	27247.87	27248.19	27248.56	27248.98	27249.45	27249.98
4.0	27237.31	27237.07	27236.88	27237.07	27237.31	27237.61	27237.96	27238.38	27238.86	27239.40
4.5	27225.02	27224.63	27224.33	27224.63	27225.02	27225.47	27225.98	27226.56	27227.20	27227.89
5.0	27210.12	27209.60	27209.18	27209.60	27210.12	27210.72	27211.40	27212.15	27212.95	27213.80
5.5	27192.09	27191.57	27191.18	27191.57	27192.09	27192.70	27193.41	27194.19	27195.03	27195.93
6.0	27170.20	27169.77	27169.47	27169.77	27170.20	27170.75	27171.40	27172.14	27172.96	27173.84
6.5	27143.61	27143.34	27143.23	27143.34	27143.61	27144.00	27144.53	27145.17	27145.91	27146.74
7.0	27112.12	27112.07	27112.19	27112.07	27112.12	27112.33	27112.69	27113.18	27113.81	27114.55
7.5	27075.68	27075.81	27076.13	27075.81	27075.68	27075.72	27075.92	27076.28	27076.80	27077.46
8.0	27033.09	27033.46	27034.04	27033.46	27033.09	27032.89	27032.88	27033.04	27033.38	27033.88
8.5	26983.51	26984.29	26985.25	26984.29	26983.51	26982.91	26982.51	26982.29	26982.28	26982.47
9.0	26925.83	26927.04	26928.41	26927.04	26925.83	26924.81	26923.98	26923.36	26922.96	26922.80
9.5	26859.10	26860.64	26862.33	26860.64	26859.10	26857.74	26856.58	26855.64	26854.94	26854.50
10.0	26782.02	26783.85	26785.82	26783.85	26782.02	26780.37	26778.91	26777.69	26776.73	26776.05
10.5	26693.62	26695.69	26697.92	26695.69	26693.62	26691.71	26690.01	26688.55	26687.36	26686.48
11.0	26591.94	26594.26	26596.72	26594.26	26591.94	26589.80	26587.88	26586.21	26584.84	26583.79
11.5	26474.94	26477.51	26480.24	26477.51	26474.94	26472.57	26470.43	26468.57	26467.03	26465.86
12.0	26341.99	26344.78	26347.75	26344.78	26341.99	26339.40	26337.07	26335.04	26333.35	26332.06
12.5	26192.69	26195.61	26198.68	26195.61	26192.69	26189.98	26187.50	26185.33	26183.50	26182.06
13.0	26024.31	26027.35	26030.51	26027.35	26024.31	26021.45	26018.82	26016.46	26014.45	26012.83
13.5	25834.71	25838.00	25841.38	25838.00	25834.71	25831.57	25828.64	25825.99	25823.67	25821.74
14.0	25621.66	25625.17	25628.72	25625.17	25621.66	25618.26	25615.04	25612.07	25609.43	25607.18
14.5	25382.57	25386.13	25389.64	25386.13	25382.57	25379.06	25375.67	25372.49	25369.61	25367.11
15.0	25116.39	25119.94	25123.37	25119.94	25116.39	25112.83	25109.33	25105.99	25102.91	25100.18
15.5	24822.71	24826.31	24829.72	24826.31	24822.71	24819.04	24815.39	24811.86	24808.54	24805.53
16.0	24497.10	24500.64	24503.98	24500.64	24497.10	24493.44	24489.77	24486.19	24482.79	24479.66
16.5	24133.54	24136.70	24139.71	24136.70	24133.54	24130.32	24127.10	24123.96	24120.98	24118.24
17.0	23736.28	23739.11	23741.86	23739.11	23736.28	23733.43	23730.60	23727.86	23725.26	23722.87
17.5	23308.88	23311.89	23314.82	23311.89	23308.88	23305.81	23302.76	23299.77	23296.90	23294.21
18.0	22847.30	22850.64	22853.85	22850.64	22847.30	22843.89	22840.47	22837.09	22833.82	22830.70
18.5	22347.49	22350.96	22354.31	22350.96	22347.49	22343.95	22340.38	22336.86	22333.42	22330.13
19.0	21813.14	21816.76	21820.27	21816.76	21813.14	21809.46	21805.76	21802.11	21798.54	21795.12
19.5	21246.45	21250.33	21254.11	21250.33	21246.45	21242.52	21238.59	21234.72	21230.95	21227.36
20.0	20647.79	20652.01	20656.17	20652.01	20647.79	20643.54	20639.35	20635.25	20631.30	20627.56
20.5	20016.10	20020.78	20025.51	20020.78	20016.10	20011.52	20007.08	20002.84	19998.83	19995.11
21.0	19357.80	19363.01	19368.39	19363.01	19357.80	19352.80	19348.06	19343.61	19339.49	19335.75
21.5	18678.21	18684.01	18690.05	18684.01	18678.21	18672.71	18667.53	18662.72	18658.31	18654.36
22.0	17979.49	17985.96	17992.72	17985.96	17979.49	17973.34	17967.56	17962.20	17957.32	17952.95
22.5	17264.78	17272.20	17279.84	17272.20	17264.78	17257.64	17250.87	17244.54	17238.73	17233.50
23.0	16536.37	16544.62	16553.04	16544.62	16536.37	16528.38	16520.74	16513.55	16506.91	16500.90

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23.5	15795.10	15803.59	15812.33	15803.59	15795.10	15786.93	15779.17	15771.89	15765.18	15759.12
24.0	15048.52	15057.06	15065.93	15057.06	15048.52	15040.38	15032.69	15025.51	15018.91	15012.95
24.5	14303.88	14312.44	14321.34	14312.44	14303.88	14295.71	14287.97	14280.74	14274.04	14267.96
25.0	13562.96	13571.67	13580.66	13571.67	13562.96	13554.60	13546.64	13539.13	13532.14	13525.71
25.5	12829.31	12838.68	12848.24	12838.68	12829.31	12820.20	12811.42	12803.05	12795.16	12787.84
26.0	12104.90	12114.84	12124.86	12114.84	12104.90	12095.13	12085.63	12076.49	12067.81	12059.67
26.5	11391.23	11401.00	11410.83	11401.00	11391.23	11381.61	11372.22	11363.14	11354.47	11346.30
27.0	10693.23	10702.54	10711.91	10702.54	10693.23	10684.04	10675.05	10666.34	10657.97	10650.03
27.5	10016.50	10025.25	10034.03	10025.25	10016.50	10007.83	9999.32	9991.02	9983.00	9975.33
28.0	9360.45	9368.72	9376.97	9368.72	9360.45	9352.21	9344.06	9336.08	9328.30	9320.81
28.5	8725.58	8733.82	8741.93	8733.82	8725.58	8717.29	8709.02	8700.85	8692.85	8685.10
29.0	8114.28	8122.58	8130.67	8122.58	8114.28	8105.84	8097.37	8088.95	8080.68	8072.64
29.5	7528.65	7536.95	7545.00	7536.95	7528.65	7520.21	7511.71	7503.25	7494.95	7486.90
30.0	6970.07	6978.17	6986.03	6978.17	6970.07	6961.82	6953.53	6945.30	6937.22	6929.40
30.5	6439.72	6447.12	6454.35	6447.12	6439.72	6432.23	6424.72	6417.27	6409.95	6402.83
31.0	5940.20	5946.86	5953.43	5946.86	5940.20	5933.49	5926.79	5920.14	5913.60	5907.21
31.5	5472.89	5479.15	5485.35	5479.15	5472.89	5466.62	5460.37	5454.18	5448.10	5442.17
32.0	5042.54	5048.76	5054.86	5048.76	5042.54	5036.27	5029.98	5023.74	5017.60	5011.61
32.5	4660.47	4667.66	4674.39	4667.66	4660.47	4652.94	4645.17	4637.31	4629.45	4621.72
33.0	4308.34	4315.99	4322.93	4315.99	4308.34	4300.15	4291.57	4282.79	4273.96	4265.25
33.5	3965.28	3970.97	3976.30	3970.97	3965.28	3959.32	3953.22	3947.09	3941.04	3935.18
34.0	3650.18	3653.25	3656.42	3653.25	3650.18	3647.23	3644.42	3641.77	3639.32	3637.08
34.5	3380.62	3381.32	3382.42	3381.32	3380.62	3380.24	3380.10	3380.11	3380.20	3380.26
35.0	3139.66	3138.82	3138.52	3138.82	3139.66	3140.89	3142.35	3143.90	3145.37	3146.60
35.5	2915.08	2915.09	2915.37	2915.09	2915.08	2915.26	2915.55	2915.85	2916.08	2916.15
36.0	2710.35	2711.57	2712.75	2711.57	2710.35	2709.09	2707.78	2706.45	2705.09	2703.70
36.5	2526.07	2526.98	2527.84	2526.98	2526.07	2525.12	2524.13	2523.11	2522.07	2521.00
37.0	2358.58	2358.84	2359.12	2358.84	2358.58	2358.33	2358.09	2357.82	2357.53	2357.18
37.5	2204.77	2204.66	2204.58	2204.66	2204.77	2204.90	2205.02	2205.13	2205.19	2205.19
38.0	2063.57	2063.19	2062.86	2063.19	2063.57	2063.96	2064.36	2064.73	2065.06	2065.32
38.5	1932.95	1932.54	1932.22	1932.54	1932.95	1933.41	1933.90	1934.40	1934.88	1935.32
39.0	1812.64	1812.15	1811.78	1812.15	1812.64	1813.21	1813.84	1814.49	1815.15	1815.77
39.5	1702.12	1701.01	1700.02	1701.01	1702.12	1703.31	1704.53	1705.74	1706.90	1707.98
40.0	1600.12	1598.59	1597.14	1598.59	1600.12	1601.70	1603.27	1604.80	1606.24	1607.55
40.5	1505.96	1505.15	1504.34	1505.15	1505.96	1506.73	1507.47	1508.16	1508.79	1509.36
41.0	1417.34	1417.29	1417.14	1417.29	1417.34	1417.31	1417.23	1417.11	1416.98	1416.85
41.5	1330.69	1330.30	1329.87	1330.30	1330.69	1331.07	1331.42	1331.76	1332.08	1332.39
42.0	1249.20	1248.26	1247.39	1248.26	1249.20	1250.18	1251.18	1252.18	1253.15	1254.07
42.5	1175.69	1174.69	1173.75	1174.69	1175.69	1176.74	1177.82	1178.90	1179.94	1180.94
43.0	1107.59	1106.63	1105.74	1106.63	1107.59	1108.59	1109.60	1110.62	1111.60	1112.54
43.5	1043.16	1042.21	1041.33	1042.21	1043.16	1044.15	1045.17	1046.18	1047.17	1048.11
44.0	982.72	981.79	980.93	981.79	982.72	983.69	984.69	985.69	986.67	987.61
44.5	926.07	925.17	924.33	925.17	926.07	927.02	928.00	928.98	929.94	930.86
45.0	872.96	872.09	871.29	872.09	872.96	873.87	874.81	875.75	876.68	877.57
45.5	823.03	822.23	821.49	822.23	823.03	823.88	824.75	825.63	826.49	827.32
46.0	776.34	775.60	774.91	775.60	776.34	777.12	777.93	778.74	779.54	780.31
46.5	732.93	732.22	731.56	732.22	732.93	733.69	734.47	735.24	736.01	736.74
47.0	692.48	691.78	691.13	691.78	692.48	693.22	693.97	694.73	695.47	696.18
47.5	654.65	653.96	653.33	653.96	654.65	655.37	656.11	656.84	657.56	658.23
48.0	619.48	618.81	618.18	618.81	619.48	620.18	620.90	621.61	622.30	622.94
48.5	586.90	586.25	585.65	586.25	586.90	587.58	588.26	588.94	589.59	590.20
49.0	556.87	556.25	555.66	556.25	556.87	557.52	558.18	558.83	559.44	560.01
49.5	529.40	528.78	528.19	528.78	529.40	530.04	530.68	531.30	531.88	532.41
50.0	504.28	503.66	503.08	503.66	504.28	504.90	505.52	506.11	506.66	507.16
50.5	481.32	480.74	480.17	480.74	481.32	481.92	482.50	483.05	483.56	484.01
51.0	460.46	459.90	459.36	459.90	460.46	461.02	461.57	462.08	462.55	462.95

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51.5	441.61	441.05	440.51	441.05	441.61	442.16	442.69	443.18	443.63	444.01
52.0	424.59	424.04	423.50	424.04	424.59	425.13	425.64	426.11	426.53	426.89
52.5	409.28	408.76	408.24	408.76	409.28	409.78	410.25	410.68	411.05	411.35
53.0	395.46	394.98	394.49	394.98	395.46	395.91	396.33	396.70	397.01	397.25
53.5	382.93	382.50	382.04	382.50	382.93	383.34	383.70	384.01	384.27	384.45
54.0	371.47	371.08	370.67	371.08	371.47	371.81	372.12	372.37	372.57	372.70
54.5	360.76	360.44	360.08	360.44	360.76	361.05	361.29	361.48	361.61	361.68
55.0	350.80	350.53	350.22	350.53	350.80	351.02	351.20	351.33	351.40	351.42
55.5	341.49	341.27	341.01	341.27	341.49	341.66	341.78	341.86	341.89	341.87
56.0	332.70	332.52	332.29	332.52	332.70	332.84	332.93	332.97	332.97	332.93
56.5	324.26	324.07	323.84	324.07	324.26	324.41	324.51	324.58	324.60	324.58
57.0	316.20	316.01	315.78	316.01	316.20	316.36	316.48	316.56	316.60	316.60
57.5	308.52	308.38	308.20	308.38	308.52	308.63	308.70	308.73	308.73	308.70
58.0	301.21	301.12	300.99	301.12	301.21	301.27	301.28	301.26	301.22	301.14
58.5	294.29	294.21	294.09	294.21	294.29	294.33	294.33	294.31	294.26	294.18
59.0	287.69	287.61	287.49	287.61	287.69	287.73	287.74	287.71	287.67	287.60
59.5	281.36	281.28	281.16	281.28	281.36	281.40	281.41	281.39	281.34	281.28
60.0	275.26	275.18	275.06	275.18	275.26	275.31	275.32	275.30	275.26	275.20
60.5	269.39	269.30	269.17	269.30	269.39	269.45	269.47	269.46	269.43	269.37
61.0	263.62	263.52	263.38	263.52	263.62	263.68	263.71	263.71	263.68	263.63
61.5	257.80	257.70	257.56	257.70	257.80	257.86	257.89	257.89	257.86	257.81
62.0	251.96	251.86	251.73	251.86	251.96	252.02	252.05	252.05	252.02	251.98
62.5	246.06	245.96	245.82	245.96	246.06	246.12	246.16	246.17	246.15	246.12
63.0	240.17	240.07	239.93	240.07	240.17	240.25	240.29	240.31	240.30	240.28
63.5	234.38	234.27	234.13	234.27	234.38	234.45	234.50	234.52	234.52	234.50
64.0	228.64	228.54	228.40	228.54	228.64	228.72	228.76	228.78	228.78	228.76
64.5	222.96	222.86	222.73	222.86	222.96	223.02	223.06	223.08	223.07	223.05
65.0	217.31	217.22	217.10	217.22	217.31	217.37	217.41	217.42	217.41	217.39
65.5	211.73	211.63	211.51	211.63	211.73	211.79	211.82	211.84	211.83	211.81
66.0	206.14	206.05	205.92	206.05	206.14	206.21	206.25	206.27	206.26	206.25
66.5	200.50	200.39	200.26	200.39	200.50	200.57	200.62	200.64	200.65	200.64
67.0	194.85	194.74	194.60	194.74	194.85	194.93	194.99	195.02	195.04	195.04
67.5	189.24	189.13	188.98	189.13	189.24	189.33	189.40	189.44	189.47	189.47
68.0	183.66	183.54	183.39	183.54	183.66	183.76	183.83	183.88	183.92	183.94
68.5	178.09	177.96	177.80	177.96	178.09	178.20	178.30	178.37	178.42	178.46
69.0	172.53	172.39	172.22	172.39	172.53	172.66	172.77	172.86	172.94	173.00
69.5	166.95	166.79	166.62	166.79	166.95	167.09	167.22	167.33	167.43	167.52
70.0	161.41	161.25	161.07	161.25	161.41	161.56	161.70	161.82	161.94	162.03
70.5	155.99	155.84	155.68	155.84	155.99	156.13	156.26	156.38	156.48	156.57
71.0	150.64	150.51	150.37	150.51	150.64	150.76	150.87	150.97	151.06	151.14
71.5	145.31	145.20	145.08	145.20	145.31	145.41	145.50	145.59	145.66	145.73
72.0	140.04	139.95	139.85	139.95	140.04	140.13	140.21	140.28	140.35	140.41
72.5	134.89	134.79	134.69	134.79	134.89	134.97	135.05	135.13	135.20	135.26
73.0	129.78	129.69	129.60	129.69	129.78	129.87	129.96	130.03	130.11	130.17
73.5	124.71	124.62	124.54	124.62	124.71	124.78	124.86	124.92	124.99	125.04
74.0	119.63	119.56	119.49	119.56	119.63	119.70	119.76	119.82	119.88	119.92
74.5	114.53	114.46	114.40	114.46	114.53	114.59	114.65	114.71	114.77	114.82
75.0	109.43	109.36	109.30	109.36	109.43	109.50	109.56	109.62	109.68	109.74
75.5	104.37	104.30	104.23	104.30	104.37	104.44	104.51	104.58	104.65	104.71
76.0	99.34	99.26	99.19	99.26	99.34	99.42	99.50	99.58	99.65	99.71
76.5	94.35	94.27	94.19	94.27	94.35	94.43	94.51	94.59	94.67	94.73
77.0	89.43	89.34	89.26	89.34	89.43	89.52	89.60	89.69	89.76	89.83
77.5	84.63	84.52	84.42	84.52	84.63	84.73	84.84	84.94	85.03	85.10
78.0	79.90	79.77	79.65	79.77	79.90	80.02	80.14	80.25	80.35	80.44
78.5	75.19	75.07	74.95	75.07	75.19	75.31	75.43	75.54	75.65	75.73
79.0	70.53	70.41	70.29	70.41	70.53	70.65	70.77	70.88	70.98	71.07

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CANDELA TABULATION - (Cont.)

79.5	65.91	65.78	65.66	65.78	65.91	66.05	66.18	66.31	66.42	66.53
80.0	61.37	61.23	61.10	61.23	61.37	61.51	61.66	61.80	61.94	62.06
80.5	56.98	56.84	56.71	56.84	56.98	57.13	57.28	57.42	57.56	57.68
81.0	52.54	52.40	52.26	52.40	52.54	52.69	52.84	52.99	53.13	53.25
81.5	47.88	47.73	47.59	47.73	47.88	48.04	48.19	48.35	48.49	48.62
82.0	42.98	42.82	42.67	42.82	42.98	43.15	43.32	43.48	43.63	43.77
82.5	37.65	37.47	37.31	37.47	37.65	37.83	38.02	38.20	38.37	38.52
83.0	32.27	32.08	31.90	32.08	32.27	32.47	32.67	32.86	33.05	33.22
83.5	27.16	26.97	26.78	26.97	27.16	27.36	27.56	27.75	27.93	28.09
84.0	22.38	22.19	22.01	22.19	22.38	22.57	22.76	22.94	23.10	23.25
84.5	18.17	17.99	17.82	17.99	18.17	18.34	18.51	18.68	18.82	18.95
85.0	14.25	14.09	13.94	14.09	14.25	14.40	14.55	14.69	14.82	14.93
85.5	10.27	10.14	10.01	10.14	10.27	10.40	10.52	10.64	10.75	10.85
86.0	6.69	6.60	6.50	6.60	6.69	6.79	6.89	6.98	7.06	7.14
86.5	3.80	3.76	3.72	3.76	3.80	3.85	3.89	3.94	3.98	4.03
87.0	1.80	1.81	1.82	1.81	1.80	1.80	1.80	1.81	1.82	1.83
87.5	1.29	1.30	1.31	1.30	1.29	1.28	1.28	1.28	1.28	1.28
88.0	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.39	1.39
88.5	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
89.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
89.5	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
90.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29

**Vert.
Angles**

Horizontal Angles

	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27278.38	27278.50	27278.62	27278.73	27278.85	27278.97	27279.08	27279.18	27279.28	27279.36
1.0	27276.00	27276.25	27276.49	27276.75	27277.01	27277.27	27277.52	27277.76	27277.99	27278.20
1.5	27272.88	27273.23	27273.64	27274.08	27274.52	27274.96	27275.41	27275.85	27276.27	27276.67
2.0	27269.03	27269.48	27270.04	27270.64	27271.25	27271.88	27272.51	27273.13	27273.74	27274.32
2.5	27264.86	27265.40	27266.06	27266.75	27267.45	27268.17	27268.89	27269.61	27270.31	27270.98
3.0	27259.17	27259.78	27260.52	27261.28	27262.07	27262.87	27263.67	27264.46	27265.24	27266.00
3.5	27250.55	27251.19	27252.04	27252.94	27253.87	27254.82	27255.79	27256.76	27257.71	27258.65
4.0	27240.00	27240.68	27241.60	27242.58	27243.60	27244.66	27245.74	27246.83	27247.92	27248.99
4.5	27228.64	27229.43	27230.28	27231.17	27232.09	27233.04	27234.00	27234.99	27235.97	27236.96
5.0	27214.68	27215.59	27216.35	27217.12	27217.91	27218.72	27219.55	27220.40	27221.26	27222.14
5.5	27196.85	27197.81	27198.54	27199.30	27200.07	27200.87	27201.69	27202.54	27203.42	27204.34
6.0	27174.77	27175.75	27176.51	27177.30	27178.12	27178.97	27179.87	27180.82	27181.81	27182.85
6.5	27147.65	27148.63	27149.49	27150.41	27151.38	27152.41	27153.50	27154.65	27155.86	27157.13
7.0	27115.41	27116.37	27117.34	27118.40	27119.54	27120.77	27122.08	27123.46	27124.92	27126.44
7.5	27078.25	27079.17	27080.19	27081.32	27082.57	27083.92	27085.36	27086.91	27088.54	27090.25
8.0	27034.55	27035.38	27036.42	27037.62	27038.95	27040.42	27042.01	27043.72	27045.54	27047.45
8.5	26982.87	26983.48	26984.55	26985.82	26987.28	26988.92	26990.72	26992.66	26994.74	26996.93
9.0	26922.89	26923.25	26924.34	26925.69	26927.28	26929.09	26931.09	26933.28	26935.62	26938.10
9.5	26854.35	26854.50	26855.60	26857.01	26858.69	26860.64	26862.81	26865.20	26867.77	26870.49
10.0	26775.68	26775.66	26776.77	26778.21	26779.98	26782.03	26784.35	26786.91	26789.66	26792.60
10.5	26685.93	26685.76	26686.84	26688.29	26690.09	26692.21	26694.62	26697.28	26700.17	26703.26
11.0	26583.10	26582.81	26583.89	26585.39	26587.26	26589.47	26591.98	26594.78	26597.82	26601.06
11.5	26465.08	26464.75	26465.99	26467.68	26469.77	26472.23	26475.02	26478.10	26481.41	26484.94
12.0	26331.20	26330.82	26332.19	26334.05	26336.34	26339.03	26342.05	26345.37	26348.93	26352.70
12.5	26181.07	26180.57	26181.89	26183.71	26185.98	26188.64	26191.67	26195.00	26198.59	26202.39
13.0	26011.65	26010.97	26012.18	26013.90	26016.07	26018.66	26021.62	26024.90	26028.46	26032.23
13.5	25820.27	25819.32	25820.43	25822.07	25824.19	25826.76	25829.71	25833.02	25836.61	25840.44
14.0	25605.40	25604.16	25605.18	25606.75	25608.84	25611.39	25614.34	25617.66	25621.27	25625.13
14.5	25365.07	25363.57	25364.61	25366.23	25368.36	25370.94	25373.92	25377.23	25380.83	25384.63

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CANDELA TABULATION - (Cont.)

15.0	25097.89	25096.15	25097.15	25098.72	25100.80	25103.32	25106.22	25109.43	25112.88	25116.52
15.5	24802.94	24800.87	24801.58	24802.84	24804.59	24806.77	24809.31	24812.16	24815.25	24818.51
16.0	24476.91	24474.63	24474.93	24475.76	24477.04	24478.73	24480.78	24483.13	24485.72	24488.50
16.5	24115.81	24113.77	24113.68	24114.03	24114.77	24115.88	24117.32	24119.07	24121.07	24123.30
17.0	23720.72	23718.89	23718.36	23718.18	23718.34	23718.84	23719.66	23720.79	23722.20	23723.90
17.5	23291.75	23289.57	23288.49	23287.76	23287.35	23287.30	23287.57	23288.20	23289.15	23290.44
18.0	22827.81	22825.19	22823.56	22822.28	22821.34	22820.78	22820.58	22820.77	22821.35	22822.33
18.5	22327.03	22324.20	22322.06	22320.27	22318.83	22317.78	22317.14	22316.94	22317.20	22317.95
19.0	21791.89	21788.91	21786.42	21784.27	21782.48	21781.11	21780.18	21779.75	21779.84	21780.49
19.5	21223.98	21220.87	21218.32	21216.15	21214.36	21213.01	21212.14	21211.77	21211.95	21212.71
20.0	20624.09	20620.93	20618.46	20616.41	20614.78	20613.63	20612.98	20612.87	20613.32	20614.37
20.5	19991.72	19988.71	19986.32	19984.39	19982.96	19982.06	19981.72	19981.99	19982.90	19984.48
21.0	19332.42	19329.55	19327.23	19325.44	19324.22	19323.61	19323.65	19324.37	19325.80	19328.00
21.5	18650.90	18647.98	18645.66	18643.96	18642.91	18642.55	18642.92	18644.07	18646.03	18648.84
22.0	17949.16	17945.98	17943.68	17942.08	17941.22	17941.14	17941.86	17943.43	17945.88	17949.24
22.5	17228.93	17225.11	17222.99	17221.70	17221.24	17221.62	17222.85	17224.93	17227.88	17231.71
23.0	16495.63	16491.18	16489.11	16487.95	16487.69	16488.31	16489.80	16492.16	16495.36	16499.40
23.5	15753.79	15749.27	15746.70	15745.03	15744.25	15744.37	15745.40	15747.33	15750.16	15753.91
24.0	15007.67	15003.16	14999.96	14997.59	14996.09	14995.49	14995.80	14997.05	14999.28	15002.49
24.5	14262.52	14257.80	14254.12	14251.24	14249.19	14247.99	14247.69	14248.32	14249.90	14252.48
25.0	13519.90	13514.76	13510.65	13507.31	13504.76	13503.05	13502.21	13502.27	13503.27	13505.24
25.5	12781.15	12775.16	12770.61	12766.88	12763.97	12761.94	12760.80	12760.59	12761.32	12763.03
26.0	12052.17	12045.40	12040.42	12036.28	12033.01	12030.64	12029.18	12028.66	12029.10	12030.52
26.5	11338.70	11331.77	11326.34	11321.70	11317.87	11314.88	11312.77	11311.58	11311.33	11312.05
27.0	10642.58	10635.71	10629.86	10624.71	10620.29	10616.65	10613.83	10611.90	10610.88	10610.84
27.5	9968.07	9961.28	9955.04	9949.41	9944.43	9940.19	9936.73	9934.14	9932.47	9931.79
28.0	9313.66	9306.91	9300.40	9294.44	9289.08	9284.41	9280.51	9277.45	9275.31	9274.18
28.5	8677.67	8670.64	8664.13	8658.16	8652.80	8648.12	8644.19	8641.09	8638.88	8637.63
29.0	8064.93	8057.63	8051.29	8045.52	8040.37	8035.90	8032.17	8029.24	8027.17	8026.01
29.5	7479.20	7471.94	7466.00	7460.66	7455.95	7451.92	7448.62	7446.09	7444.38	7443.53
30.0	6921.94	6914.93	6909.32	6904.30	6899.91	6896.19	6893.17	6890.89	6889.40	6888.72
30.5	6395.99	6389.51	6383.70	6378.38	6373.61	6369.43	6365.91	6363.11	6361.08	6359.89
31.0	5901.02	5895.08	5889.08	5883.46	5878.29	5873.65	5869.62	5866.28	5863.70	5861.96
31.5	5436.42	5430.91	5425.26	5419.96	5415.07	5410.66	5406.82	5403.61	5401.10	5399.38
32.0	5005.82	5000.29	4995.07	4990.22	4985.79	4981.82	4978.39	4975.54	4973.34	4971.82
32.5	4614.23	4607.12	4601.82	4597.02	4592.75	4589.03	4585.87	4583.30	4581.33	4580.00
33.0	4256.83	4248.86	4243.88	4239.50	4235.72	4232.52	4229.89	4227.83	4226.31	4225.33
33.5	3929.62	3924.48	3921.74	3919.52	3917.76	3916.46	3915.57	3915.08	3914.96	3915.17
34.0	3635.08	3633.33	3632.38	3631.69	3631.25	3631.06	3631.09	3631.34	3631.78	3632.41
34.5	3380.23	3380.02	3377.36	3374.52	3371.56	3368.55	3365.59	3362.74	3360.09	3357.71
35.0	3147.46	3147.77	3143.28	3138.23	3132.80	3127.12	3121.35	3115.66	3110.19	3105.09
35.5	2915.99	2915.51	2912.15	2908.48	2904.60	2900.59	2896.57	2892.62	2888.86	2885.37
36.0	2702.29	2700.86	2699.16	2697.48	2695.82	2694.22	2692.69	2691.26	2689.96	2688.81
36.5	2519.91	2518.81	2517.55	2516.30	2515.06	2513.87	2512.72	2511.64	2510.65	2509.75
37.0	2356.77	2356.28	2355.17	2353.98	2352.74	2351.48	2350.22	2348.99	2347.80	2346.69
37.5	2205.11	2204.93	2204.05	2203.07	2202.02	2200.92	2199.80	2198.67	2197.56	2196.49
38.0	2065.49	2065.55	2064.89	2064.12	2063.25	2062.32	2061.34	2060.33	2059.33	2058.34
38.5	1935.68	1935.95	1935.53	1935.01	1934.39	1933.71	1932.97	1932.20	1931.40	1930.61
39.0	1816.32	1816.79	1816.53	1816.17	1815.72	1815.18	1814.59	1813.94	1813.26	1812.56
39.5	1708.92	1709.69	1709.32	1708.77	1708.05	1707.21	1706.26	1705.24	1704.17	1703.08
40.0	1608.67	1609.58	1609.17	1608.53	1607.69	1606.69	1605.57	1604.35	1603.07	1601.78
40.5	1509.85	1510.25	1510.36	1510.38	1510.30	1510.15	1509.92	1509.62	1509.25	1508.82
41.0	1416.75	1416.70	1417.30	1417.94	1418.61	1419.27	1419.90	1420.48	1420.99	1421.39
41.5	1332.68	1332.97	1333.46	1333.93	1334.38	1334.77	1335.11	1335.38	1335.56	1335.64
42.0	1254.91	1255.66	1255.93	1256.07	1256.11	1256.04	1255.87	1255.61	1255.25	1254.80
42.5	1181.85	1182.67	1182.92	1183.06	1183.08	1182.98	1182.78	1182.48	1182.09	1181.61

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CANDELA TABULATION - (Cont.)

43.0	1113.41	1114.18	1114.48	1114.67	1114.75	1114.72	1114.60	1114.38	1114.06	1113.66
43.5	1048.98	1049.76	1050.06	1050.26	1050.35	1050.33	1050.23	1050.03	1049.74	1049.38
44.0	988.48	989.26	989.57	989.77	989.86	989.87	989.78	989.60	989.34	989.00
44.5	931.72	932.49	932.81	933.02	933.14	933.16	933.10	932.94	932.71	932.39
45.0	878.40	879.15	879.48	879.71	879.84	879.89	879.85	879.72	879.51	879.21
45.5	828.10	828.80	829.14	829.38	829.54	829.61	829.59	829.50	829.32	829.06
46.0	781.03	781.69	782.01	782.25	782.40	782.48	782.47	782.39	782.23	781.99
46.5	737.43	738.05	738.32	738.50	738.61	738.64	738.59	738.46	738.26	738.00
47.0	696.83	697.41	697.62	697.73	697.77	697.73	697.61	697.42	697.17	696.85
47.5	658.85	659.40	659.53	659.58	659.54	659.42	659.23	658.98	658.66	658.29
48.0	623.52	624.03	624.09	624.06	623.95	623.76	623.51	623.18	622.81	622.38
48.5	590.74	591.20	591.21	591.12	590.96	590.71	590.40	590.03	589.61	589.15
49.0	560.51	560.92	560.87	560.73	560.50	560.20	559.83	559.41	558.95	558.46
49.5	532.87	533.24	533.11	532.88	532.57	532.18	531.73	531.24	530.70	530.13
50.0	507.57	507.89	507.70	507.40	507.01	506.55	506.03	505.46	504.85	504.23
50.5	484.38	484.65	484.43	484.12	483.71	483.23	482.69	482.10	481.48	480.83
51.0	463.28	463.52	463.29	462.95	462.54	462.05	461.50	460.90	460.27	459.61
51.5	444.31	444.52	444.24	443.87	443.42	442.89	442.30	441.66	440.99	440.30
52.0	427.15	427.33	427.01	426.60	426.10	425.53	424.90	424.22	423.52	422.80
52.5	411.56	411.68	411.33	410.88	410.35	409.75	409.10	408.40	407.68	406.95
53.0	397.41	397.47	397.09	396.62	396.07	395.46	394.80	394.09	393.37	392.64
53.5	384.55	384.57	384.19	383.71	383.17	382.56	381.91	381.23	380.52	379.80
54.0	372.75	372.72	372.35	371.89	371.37	370.79	370.17	369.51	368.84	368.15
54.5	361.68	361.61	361.26	360.83	360.35	359.82	359.24	358.64	358.02	357.39
55.0	351.38	351.27	350.95	350.58	350.15	349.67	349.16	348.63	348.07	347.51
55.5	341.79	341.67	341.41	341.10	340.74	340.35	339.92	339.46	338.98	338.48
56.0	332.84	332.71	332.50	332.26	331.97	331.64	331.28	330.89	330.46	330.01
56.5	324.51	324.40	324.20	323.95	323.67	323.34	322.99	322.60	322.18	321.73
57.0	316.56	316.47	316.27	316.03	315.75	315.43	315.08	314.70	314.30	313.87
57.5	308.63	308.53	308.39	308.22	308.02	307.79	307.53	307.24	306.92	306.58
58.0	301.04	300.92	300.85	300.76	300.65	300.51	300.35	300.16	299.94	299.68
58.5	294.08	293.97	293.93	293.87	293.80	293.70	293.58	293.43	293.25	293.03
59.0	287.51	287.41	287.39	287.35	287.30	287.23	287.13	287.00	286.84	286.65
59.5	281.20	281.10	281.10	281.09	281.06	281.00	280.93	280.83	280.69	280.52
60.0	275.13	275.04	275.05	275.05	275.03	275.00	274.93	274.85	274.73	274.57
60.5	269.30	269.22	269.23	269.23	269.21	269.17	269.11	269.02	268.90	268.74
61.0	263.57	263.49	263.49	263.49	263.46	263.42	263.35	263.26	263.14	262.98
61.5	257.75	257.67	257.68	257.67	257.65	257.61	257.54	257.45	257.34	257.19
62.0	251.92	251.84	251.85	251.85	251.83	251.80	251.74	251.66	251.55	251.42
62.5	246.07	246.01	246.03	246.04	246.03	246.01	245.97	245.90	245.80	245.68
63.0	240.24	240.19	240.23	240.25	240.26	240.25	240.22	240.17	240.09	239.98
63.5	234.47	234.43	234.47	234.51	234.53	234.53	234.52	234.48	234.41	234.31
64.0	228.73	228.69	228.75	228.80	228.83	228.85	228.84	228.82	228.76	228.67
64.5	223.02	222.99	223.05	223.11	223.16	223.19	223.20	223.19	223.14	223.06
65.0	217.36	217.32	217.40	217.46	217.52	217.56	217.58	217.57	217.53	217.46
65.5	211.78	211.74	211.81	211.87	211.92	211.95	211.97	211.95	211.91	211.84
66.0	206.22	206.18	206.24	206.29	206.34	206.36	206.37	206.34	206.29	206.21
66.5	200.62	200.59	200.65	200.70	200.74	200.77	200.77	200.74	200.69	200.60
67.0	195.03	195.01	195.07	195.13	195.17	195.19	195.20	195.17	195.11	195.02
67.5	189.47	189.46	189.53	189.59	189.64	189.66	189.66	189.64	189.58	189.49
68.0	183.95	183.95	184.02	184.09	184.14	184.17	184.17	184.15	184.10	184.00
68.5	178.49	178.51	178.59	178.66	178.71	178.74	178.75	178.72	178.66	178.57
69.0	173.05	173.09	173.17	173.24	173.29	173.32	173.32	173.29	173.23	173.14
69.5	167.58	167.64	167.72	167.78	167.82	167.84	167.83	167.79	167.72	167.62
70.0	162.12	162.18	162.26	162.31	162.35	162.36	162.34	162.30	162.23	162.12
70.5	156.65	156.72	156.80	156.87	156.92	156.94	156.94	156.91	156.86	156.76

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71.0	151.21	151.27	151.36	151.44	151.50	151.55	151.56	151.56	151.52	151.44
71.5	145.79	145.84	145.93	146.01	146.08	146.12	146.15	146.15	146.12	146.05
72.0	140.46	140.50	140.59	140.66	140.72	140.77	140.79	140.79	140.77	140.71
72.5	135.31	135.36	135.44	135.51	135.57	135.60	135.62	135.62	135.59	135.53
73.0	130.23	130.28	130.35	130.41	130.46	130.49	130.50	130.49	130.45	130.39
73.5	125.09	125.14	125.19	125.24	125.27	125.29	125.29	125.27	125.23	125.17
74.0	119.96	120.00	120.04	120.08	120.10	120.11	120.10	120.07	120.03	119.96
74.5	114.86	114.90	114.94	114.97	114.99	114.99	114.98	114.96	114.91	114.84
75.0	109.78	109.83	109.86	109.89	109.91	109.91	109.90	109.87	109.82	109.74
75.5	104.76	104.80	104.83	104.84	104.84	104.82	104.79	104.75	104.68	104.59
76.0	99.77	99.81	99.82	99.81	99.79	99.76	99.71	99.64	99.56	99.46
76.5	94.78	94.83	94.82	94.80	94.77	94.72	94.65	94.57	94.47	94.36
77.0	89.88	89.92	89.90	89.87	89.82	89.75	89.67	89.57	89.46	89.33
77.5	85.17	85.21	85.17	85.11	85.03	84.94	84.83	84.70	84.56	84.41
78.0	80.51	80.56	80.50	80.42	80.32	80.20	80.06	79.91	79.74	79.57
78.5	75.80	75.85	75.78	75.70	75.59	75.46	75.32	75.16	74.99	74.81
79.0	71.14	71.19	71.12	71.03	70.92	70.79	70.65	70.49	70.32	70.14
79.5	66.61	66.67	66.60	66.51	66.40	66.26	66.11	65.94	65.77	65.58
80.0	62.16	62.23	62.16	62.07	61.95	61.81	61.65	61.48	61.30	61.11
80.5	57.79	57.86	57.79	57.70	57.58	57.44	57.28	57.11	56.93	56.74
81.0	53.35	53.43	53.37	53.27	53.15	53.01	52.86	52.69	52.52	52.33
81.5	48.73	48.81	48.75	48.66	48.54	48.41	48.26	48.10	47.92	47.74
82.0	43.88	43.98	43.92	43.83	43.73	43.60	43.45	43.29	43.12	42.94
82.5	38.66	38.77	38.71	38.63	38.52	38.39	38.25	38.09	37.92	37.74
83.0	33.37	33.48	33.43	33.35	33.24	33.11	32.96	32.80	32.63	32.46
83.5	28.23	28.34	28.28	28.19	28.08	27.94	27.79	27.63	27.46	27.28
84.0	23.37	23.46	23.40	23.30	23.18	23.04	22.89	22.72	22.55	22.38
84.5	19.06	19.14	19.07	18.97	18.85	18.71	18.56	18.40	18.23	18.06
85.0	15.02	15.09	15.02	14.93	14.81	14.68	14.54	14.39	14.23	14.07
85.5	10.92	10.98	10.92	10.84	10.74	10.63	10.51	10.38	10.25	10.11
86.0	7.20	7.25	7.21	7.15	7.09	7.01	6.92	6.84	6.74	6.65
86.5	4.07	4.10	4.11	4.12	4.12	4.12	4.11	4.11	4.10	4.09
87.0	1.85	1.88	1.93	1.98	2.04	2.10	2.16	2.22	2.28	2.33
87.5	1.29	1.31	1.34	1.37	1.41	1.45	1.49	1.53	1.57	1.61
88.0	1.39	1.39	1.39	1.40	1.40	1.40	1.40	1.41	1.41	1.41
88.5	1.31	1.31	1.31	1.30	1.30	1.30	1.30	1.29	1.29	1.29
89.0	1.29	1.29	1.29	1.29	1.29	1.28	1.28	1.28	1.28	1.28
89.5	1.28	1.28	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
90.0	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27279.44	27279.47	27279.49	27279.50	27279.50	27279.49	27279.47	27279.44	27279.40	27279.37
1.0	27278.40	27278.51	27278.59	27278.65	27278.70	27278.72	27278.73	27278.72	27278.69	27278.66
1.5	27277.05	27277.29	27277.50	27277.68	27277.83	27277.96	27278.05	27278.11	27278.15	27278.16
2.0	27274.88	27275.27	27275.62	27275.93	27276.20	27276.44	27276.64	27276.80	27276.92	27277.01
2.5	27271.63	27272.10	27272.54	27272.93	27273.29	27273.61	27273.88	27274.12	27274.32	27274.49
3.0	27266.73	27267.29	27267.81	27268.29	27268.74	27269.14	27269.51	27269.84	27270.13	27270.39
3.5	27259.56	27260.26	27260.91	27261.52	27262.09	27262.63	27263.12	27263.57	27263.99	27264.37
4.0	27250.03	27250.86	27251.65	27252.41	27253.13	27253.81	27254.45	27255.06	27255.63	27256.18
4.5	27237.94	27238.84	27239.73	27240.61	27241.47	27242.32	27243.15	27243.96	27244.75	27245.53
5.0	27223.05	27224.02	27225.01	27226.03	27227.05	27228.08	27229.12	27230.17	27231.21	27232.24
5.5	27205.31	27206.41	27207.55	27208.74	27209.95	27211.20	27212.47	27213.77	27215.08	27216.40
6.0	27183.95	27185.20	27186.51	27187.88	27189.29	27190.76	27192.27	27193.81	27195.39	27197.01

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CANDELA TABULATION - (Cont.)

6.5	27158.46	27159.87	27161.34	27162.87	27164.46	27166.12	27167.83	27169.60	27171.42	27173.30
7.0	27128.03	27129.60	27131.23	27132.93	27134.71	27136.55	27138.46	27140.46	27142.52	27144.67
7.5	27092.05	27093.77	27095.56	27097.43	27099.39	27101.45	27103.60	27105.85	27108.20	27110.66
8.0	27049.46	27051.33	27053.29	27055.35	27057.51	27059.78	27062.18	27064.70	27067.35	27070.14
8.5	26999.23	27001.28	27003.42	27005.67	27008.04	27010.55	27013.19	27015.98	27018.93	27022.06
9.0	26940.70	26942.93	26945.27	26947.73	26950.32	26953.06	26955.96	26959.04	26962.29	26965.75
9.5	26873.35	26875.78	26878.34	26881.03	26883.88	26886.88	26890.07	26893.45	26897.03	26900.83
10.0	26795.69	26798.32	26801.08	26804.00	26807.08	26810.34	26813.79	26817.46	26821.34	26825.46
10.5	26706.51	26709.29	26712.22	26715.32	26718.59	26722.06	26725.73	26729.63	26733.75	26738.12
11.0	26604.48	26607.38	26610.44	26613.68	26617.09	26620.71	26624.55	26628.62	26632.92	26637.49
11.5	26488.63	26491.63	26494.76	26498.06	26501.55	26505.23	26509.14	26513.29	26517.69	26522.37
12.0	26356.63	26359.69	26362.88	26366.23	26369.76	26373.49	26377.44	26381.64	26386.11	26390.87
12.5	26206.36	26209.47	26212.72	26216.14	26219.74	26223.56	26227.60	26231.90	26236.47	26241.35
13.0	26036.20	26039.36	26042.68	26046.18	26049.86	26053.77	26057.90	26062.29	26066.95	26071.91
13.5	25844.48	25847.80	25851.29	25854.95	25858.79	25862.85	25867.12	25871.62	25876.36	25881.37
14.0	25629.20	25632.55	25636.06	25639.74	25643.60	25647.65	25651.90	25656.36	25661.04	25665.96
14.5	25388.60	25391.55	25394.61	25397.82	25401.19	25404.75	25408.52	25412.52	25416.76	25421.29
15.0	25120.27	25122.70	25125.22	25127.86	25130.65	25133.64	25136.84	25140.31	25144.08	25148.17
15.5	24821.88	24823.92	24826.04	24828.29	24830.71	24833.33	24836.19	24839.34	24842.80	24846.63
16.0	24491.43	24493.18	24495.05	24497.09	24499.31	24501.77	24504.50	24507.53	24510.91	24514.67
16.5	24125.73	24127.46	24129.38	24131.52	24133.91	24136.57	24139.53	24142.82	24146.48	24150.52
17.0	23725.87	23727.67	23729.74	23732.11	23734.78	23737.79	23741.14	23744.85	23748.94	23753.42
17.5	23292.07	23293.86	23295.98	23298.47	23301.34	23304.59	23308.23	23312.29	23316.76	23321.66
18.0	22823.73	22825.57	22827.85	22830.56	22833.72	22837.32	22841.38	22845.90	22850.88	22856.33
18.5	22319.21	22321.42	22324.16	22327.44	22331.24	22335.57	22340.41	22345.76	22351.60	22357.94
19.0	21781.75	21784.34	21787.55	21791.39	21795.82	21800.85	21806.44	21812.59	21819.28	21826.50
19.5	21214.10	21216.69	21219.94	21223.84	21228.38	21233.55	21239.36	21245.78	21252.82	21260.46
20.0	20616.06	20618.84	20622.29	20626.40	20631.18	20636.63	20642.74	20649.51	20656.93	20665.01
20.5	19986.76	19990.48	19994.93	20000.08	20005.92	20012.43	20019.60	20027.39	20035.79	20044.77
21.0	19331.00	19335.95	19341.68	19348.16	19355.32	19363.14	19371.55	19380.51	19389.95	19399.84
21.5	18652.54	18658.92	18666.14	18674.10	18682.73	18691.91	18701.57	18711.59	18721.88	18732.35
22.0	17953.56	17961.01	17969.31	17978.36	17988.00	17998.13	18008.59	18019.27	18030.03	18040.73
22.5	17236.41	17243.58	17251.53	17260.16	17269.34	17278.97	17288.93	17299.11	17309.39	17319.65
23.0	16504.26	16511.01	16518.46	16526.54	16535.14	16544.16	16553.50	16563.07	16572.76	16582.48
23.5	15758.57	15766.01	15774.23	15783.09	15792.44	15802.15	15812.08	15822.08	15832.00	15841.70
24.0	15006.73	15014.82	15023.76	15033.38	15043.49	15053.89	15064.40	15074.82	15084.95	15094.62
24.5	14256.08	14263.73	14272.24	14281.43	14291.11	14301.08	14311.14	14321.11	14330.77	14339.95
25.0	13508.22	13515.21	13523.04	13531.56	13540.55	13549.83	13559.20	13568.48	13577.47	13585.98
25.5	12765.76	12772.55	12780.18	12788.45	12797.15	12806.08	12815.04	12823.81	12832.20	12839.99
26.0	12032.96	12039.57	12047.00	12055.04	12063.46	12072.06	12080.62	12088.91	12096.72	12103.83
26.5	11313.78	11319.83	11326.71	11334.20	11342.09	11350.16	11358.19	11365.97	11373.27	11379.88
27.0	10611.81	10617.33	10623.70	10630.70	10638.13	10645.75	10653.35	10660.72	10667.62	10673.85
27.5	9932.16	9937.61	9943.95	9950.96	9958.38	9966.00	9973.57	9980.85	9987.62	9993.63
28.0	9274.12	9279.54	9285.87	9292.88	9300.30	9307.90	9315.42	9322.62	9329.23	9335.02
28.5	8637.43	8642.45	8648.35	8654.89	8661.84	8668.95	8675.98	8682.70	8688.85	8694.20
29.0	8025.83	8030.44	8035.87	8041.89	8048.28	8054.82	8061.28	8067.43	8073.05	8077.92
29.5	7443.58	7448.03	7453.22	7458.94	7464.97	7471.10	7477.11	7482.79	7487.91	7492.26
30.0	6888.90	6893.28	6898.35	6903.89	6909.71	6915.58	6921.29	6926.63	6931.39	6935.35
30.5	6359.60	6363.99	6369.11	6374.75	6380.67	6386.66	6392.48	6397.92	6402.74	6406.72
31.0	5861.15	5865.45	5870.53	5876.15	5882.08	5888.09	5893.95	5899.42	5904.27	5908.26
31.5	5398.51	5402.42	5407.04	5412.17	5417.58	5423.06	5428.40	5433.36	5437.73	5441.30
32.0	4971.06	4974.30	4978.17	4982.47	4987.03	4991.67	4996.18	5000.39	5004.11	5007.16
32.5	4579.32	4581.26	4583.75	4586.66	4589.87	4593.25	4596.67	4600.01	4603.14	4605.93
33.0	4224.88	4225.81	4227.18	4228.92	4230.94	4233.18	4235.55	4237.98	4240.39	4242.69
33.5	3915.70	3917.26	3919.02	3920.90	3922.81	3924.67	3926.39	3927.89	3929.08	3929.87
34.0	3633.21	3635.40	3637.64	3639.82	3641.84	3643.57	3644.93	3645.79	3646.04	3645.59

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CANDELA TABULATION - (Cont.)

34.5	3355.69	3356.78	3358.18	3359.78	3361.43	3363.03	3364.45	3365.57	3366.25	3366.38
35.0	3100.53	3100.42	3100.87	3101.77	3102.99	3104.40	3105.88	3107.30	3108.52	3109.44
35.5	2882.27	2882.23	2882.57	2883.22	2884.06	2885.02	2885.99	2886.89	2887.61	2888.06
36.0	2687.82	2688.11	2688.53	2689.04	2689.56	2690.06	2690.46	2690.70	2690.74	2690.52
36.5	2508.97	2509.16	2509.44	2509.76	2510.06	2510.31	2510.45	2510.44	2510.22	2509.77
37.0	2345.68	2345.71	2345.83	2345.97	2346.11	2346.19	2346.18	2346.01	2345.66	2345.07
37.5	2195.50	2195.47	2195.49	2195.52	2195.52	2195.45	2195.27	2194.94	2194.42	2193.66
38.0	2057.40	2057.33	2057.28	2057.23	2057.12	2056.94	2056.63	2056.16	2055.49	2054.59
38.5	1929.83	1929.74	1929.66	1929.55	1929.37	1929.10	1928.69	1928.12	1927.36	1926.37
39.0	1811.86	1811.76	1811.63	1811.46	1811.22	1810.88	1810.40	1809.77	1808.94	1807.91
39.5	1702.01	1701.76	1701.51	1701.25	1700.94	1700.54	1700.04	1699.39	1698.57	1697.55
40.0	1600.49	1600.13	1599.78	1599.42	1599.03	1598.57	1598.00	1597.31	1596.47	1595.43
40.5	1508.34	1508.08	1507.75	1507.34	1506.83	1506.21	1505.46	1504.57	1503.52	1502.29
41.0	1421.68	1421.51	1421.20	1420.74	1420.12	1419.35	1418.42	1417.33	1416.09	1414.69
41.5	1335.61	1335.30	1334.87	1334.30	1333.60	1332.77	1331.81	1330.71	1329.47	1328.10
42.0	1254.27	1253.79	1253.23	1252.57	1251.83	1250.98	1250.03	1248.97	1247.80	1246.51
42.5	1181.05	1180.55	1179.98	1179.33	1178.58	1177.74	1176.80	1175.76	1174.61	1173.36
43.0	1113.18	1112.73	1112.19	1111.57	1110.86	1110.06	1109.15	1108.14	1107.03	1105.81
43.5	1048.93	1048.55	1048.08	1047.54	1046.90	1046.18	1045.36	1044.43	1043.40	1042.26
44.0	988.60	988.27	987.87	987.39	986.82	986.17	985.42	984.57	983.61	982.54
44.5	932.01	931.66	931.24	930.75	930.17	929.51	928.76	927.91	926.97	925.94
45.0	878.85	878.46	878.01	877.48	876.87	876.18	875.41	874.56	873.63	872.61
45.5	828.72	828.33	827.85	827.30	826.68	825.99	825.23	824.39	823.49	822.52
46.0	781.67	781.26	780.78	780.22	779.60	778.92	778.17	777.37	776.51	775.60
46.5	737.66	737.24	736.75	736.21	735.61	734.95	734.24	733.49	732.69	731.85
47.0	696.47	696.04	695.56	695.03	694.45	693.83	693.17	692.47	691.74	690.98
47.5	657.86	657.42	656.93	656.41	655.85	655.26	654.64	654.00	653.34	652.67
48.0	621.91	621.45	620.96	620.45	619.91	619.35	618.78	618.20	617.62	617.03
48.5	588.66	588.21	587.74	587.26	586.76	586.25	585.73	585.21	584.69	584.17
49.0	557.94	557.49	557.04	556.58	556.11	555.64	555.16	554.70	554.24	553.79
49.5	529.55	529.09	528.62	528.15	527.69	527.23	526.79	526.36	525.95	525.55
50.0	503.59	503.08	502.58	502.08	501.61	501.15	500.71	500.30	499.92	499.57
50.5	480.17	479.60	479.04	478.49	477.97	477.46	476.99	476.56	476.17	475.82
51.0	458.93	458.31	457.70	457.10	456.53	455.98	455.48	455.02	454.62	454.28
51.5	439.60	438.95	438.33	437.72	437.14	436.60	436.11	435.67	435.29	434.99
52.0	422.07	421.42	420.80	420.20	419.64	419.12	418.65	418.24	417.91	417.64
52.5	406.21	405.58	404.97	404.39	403.86	403.36	402.93	402.56	402.25	402.03
53.0	391.91	391.29	390.70	390.14	389.62	389.15	388.74	388.40	388.12	387.93
53.5	379.09	378.46	377.86	377.29	376.77	376.29	375.88	375.54	375.27	375.09
54.0	367.47	366.83	366.22	365.64	365.11	364.63	364.21	363.86	363.59	363.41
54.5	356.76	356.15	355.56	355.00	354.48	354.02	353.61	353.27	353.01	352.84
55.0	346.94	346.34	345.76	345.20	344.68	344.21	343.80	343.46	343.19	343.02
55.5	337.96	337.31	336.66	336.03	335.43	334.88	334.39	333.97	333.64	333.41
56.0	329.53	328.83	328.13	327.43	326.77	326.14	325.58	325.09	324.70	324.43
56.5	321.26	320.60	319.94	319.29	318.66	318.08	317.55	317.09	316.73	316.47
57.0	313.42	312.82	312.21	311.62	311.05	310.52	310.04	309.63	309.30	309.06
57.5	306.21	305.63	305.04	304.45	303.88	303.35	302.86	302.43	302.08	301.83
58.0	299.39	298.83	298.24	297.65	297.07	296.51	296.01	295.56	295.18	294.90
58.5	292.78	292.23	291.65	291.06	290.49	289.93	289.42	288.97	288.59	288.30
59.0	286.41	285.87	285.31	284.73	284.17	283.62	283.12	282.67	282.29	282.00
59.5	280.31	279.79	279.24	278.69	278.13	277.60	277.10	276.66	276.28	275.99
60.0	274.37	273.88	273.36	272.82	272.28	271.77	271.28	270.85	270.48	270.19
60.5	268.55	268.08	267.58	267.07	266.55	266.06	265.59	265.17	264.81	264.52
61.0	262.79	262.34	261.86	261.37	260.88	260.41	259.96	259.56	259.21	258.94
61.5	257.01	256.58	256.12	255.66	255.19	254.74	254.31	253.93	253.59	253.33
62.0	251.24	250.83	250.40	249.95	249.51	249.07	248.66	248.29	247.97	247.72

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CANDELA TABULATION - (Cont.)

62.5	245.52	245.13	244.71	244.28	243.84	243.42	243.02	242.66	242.35	242.09
63.0	239.83	239.45	239.04	238.62	238.20	237.78	237.39	237.02	236.71	236.45
63.5	234.17	233.80	233.39	232.97	232.55	232.14	231.74	231.37	231.05	230.78
64.0	228.54	228.17	227.77	227.35	226.92	226.50	226.10	225.73	225.39	225.11
64.5	222.94	222.58	222.18	221.76	221.33	220.90	220.49	220.11	219.76	219.47
65.0	217.35	216.99	216.59	216.17	215.74	215.31	214.89	214.50	214.14	213.83
65.5	211.72	211.36	210.97	210.56	210.13	209.71	209.29	208.90	208.54	208.23
66.0	206.09	205.74	205.35	204.94	204.52	204.10	203.69	203.30	202.94	202.63
66.5	200.48	200.12	199.74	199.33	198.91	198.49	198.07	197.68	197.31	196.98
67.0	194.89	194.54	194.15	193.74	193.31	192.88	192.46	192.06	191.68	191.35
67.5	189.36	189.00	188.60	188.18	187.75	187.31	186.88	186.46	186.08	185.72
68.0	183.87	183.50	183.10	182.68	182.24	181.79	181.35	180.93	180.53	180.17
68.5	178.44	178.08	177.68	177.26	176.83	176.39	175.95	175.52	175.12	174.75
69.0	173.00	172.65	172.27	171.87	171.44	171.01	170.58	170.16	169.76	169.39
69.5	167.47	167.14	166.78	166.39	165.99	165.58	165.17	164.77	164.39	164.03
70.0	161.98	161.66	161.31	160.94	160.56	160.17	159.78	159.40	159.03	158.69
70.5	156.64	156.33	155.99	155.63	155.25	154.86	154.47	154.09	153.73	153.39
71.0	151.33	151.03	150.70	150.34	149.97	149.58	149.20	148.82	148.46	148.12
71.5	145.95	145.66	145.34	145.00	144.64	144.27	143.90	143.53	143.19	142.87
72.0	140.61	140.34	140.03	139.69	139.35	138.99	138.64	138.30	137.97	137.67
72.5	135.43	135.16	134.85	134.53	134.19	133.85	133.51	133.18	132.87	132.58
73.0	130.29	130.02	129.72	129.41	129.08	128.75	128.43	128.12	127.82	127.56
73.5	125.07	124.82	124.55	124.26	123.96	123.67	123.37	123.09	122.83	122.60
74.0	119.87	119.64	119.39	119.12	118.85	118.58	118.32	118.07	117.83	117.63
74.5	114.75	114.52	114.27	114.01	113.74	113.47	113.21	112.96	112.74	112.54
75.0	109.65	109.41	109.16	108.89	108.62	108.35	108.09	107.85	107.63	107.44
75.5	104.49	104.26	104.01	103.75	103.49	103.23	102.99	102.76	102.56	102.39
76.0	99.34	99.11	98.87	98.62	98.38	98.14	97.91	97.70	97.52	97.36
76.5	94.23	94.01	93.77	93.54	93.30	93.07	92.86	92.66	92.50	92.36
77.0	89.19	88.97	88.74	88.51	88.28	88.07	87.87	87.68	87.53	87.40
77.5	84.24	84.02	83.79	83.57	83.35	83.14	82.95	82.78	82.63	82.52
78.0	79.38	79.16	78.94	78.72	78.51	78.31	78.13	77.96	77.83	77.72
78.5	74.62	74.41	74.19	73.98	73.78	73.59	73.41	73.26	73.14	73.04
79.0	69.95	69.75	69.54	69.34	69.15	68.97	68.81	68.67	68.55	68.46
79.5	65.40	65.20	65.01	64.82	64.65	64.48	64.33	64.20	64.10	64.02
80.0	60.92	60.74	60.56	60.38	60.22	60.07	59.93	59.81	59.72	59.65
80.5	56.56	56.38	56.20	56.04	55.88	55.73	55.60	55.49	55.40	55.33
81.0	52.15	51.97	51.80	51.64	51.49	51.34	51.22	51.11	51.02	50.96
81.5	47.56	47.39	47.22	47.05	46.90	46.76	46.63	46.52	46.43	46.37
82.0	42.76	42.59	42.42	42.26	42.11	41.97	41.85	41.74	41.66	41.59
82.5	37.56	37.41	37.26	37.12	36.98	36.86	36.75	36.66	36.59	36.53
83.0	32.28	32.15	32.02	31.90	31.79	31.69	31.60	31.52	31.47	31.42
83.5	27.11	27.00	26.90	26.81	26.73	26.65	26.58	26.52	26.48	26.44
84.0	22.22	22.13	22.05	21.98	21.92	21.86	21.81	21.76	21.72	21.68
84.5	17.90	17.81	17.73	17.66	17.59	17.53	17.48	17.43	17.39	17.35
85.0	13.92	13.83	13.75	13.67	13.61	13.55	13.49	13.44	13.40	13.36
85.5	9.99	9.92	9.86	9.80	9.75	9.71	9.67	9.64	9.61	9.59
86.0	6.57	6.53	6.50	6.47	6.44	6.43	6.41	6.40	6.39	6.38
86.5	4.08	4.08	4.08	4.09	4.09	4.09	4.09	4.09	4.08	4.07
87.0	2.38	2.42	2.45	2.47	2.49	2.51	2.52	2.52	2.52	2.51
87.5	1.65	1.67	1.69	1.71	1.72	1.73	1.74	1.74	1.74	1.74
88.0	1.42	1.42	1.42	1.43	1.43	1.43	1.44	1.44	1.44	1.44
88.5	1.29	1.29	1.29	1.29	1.30	1.30	1.30	1.30	1.31	1.31
89.0	1.28	1.29	1.29	1.29	1.29	1.30	1.30	1.31	1.31	1.31
89.5	1.27	1.27	1.27	1.28	1.28	1.28	1.28	1.29	1.29	1.29
90.0	1.29	1.29	1.29	1.29	1.30	1.30	1.30	1.30	1.30	1.30

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27279.35	27279.32	27279.29	27279.25	27279.20	27279.14	27279.08	27279.00	27278.92	27278.85
1.0	27278.64	27278.61	27278.56	27278.49	27278.42	27278.32	27278.21	27278.08	27277.93	27277.77
1.5	27278.16	27278.13	27278.08	27278.00	27277.90	27277.77	27277.63	27277.46	27277.27	27276.98
2.0	27277.06	27277.07	27277.05	27277.00	27276.91	27276.79	27276.64	27276.46	27276.24	27275.84
2.5	27274.66	27274.80	27274.89	27274.93	27274.92	27274.86	27274.75	27274.58	27274.35	27273.92
3.0	27270.73	27271.02	27271.27	27271.45	27271.56	27271.60	27271.56	27271.44	27271.22	27270.81
3.5	27264.87	27265.32	27265.71	27266.04	27266.28	27266.44	27266.50	27266.46	27266.29	27266.02
4.0	27256.88	27257.54	27258.13	27258.64	27259.07	27259.39	27259.61	27259.69	27259.64	27259.44
4.5	27246.51	27247.45	27248.33	27249.13	27249.83	27250.41	27250.86	27251.16	27251.30	27250.86
5.0	27233.57	27234.85	27236.08	27237.22	27238.25	27239.15	27239.90	27240.46	27240.83	27240.14
5.5	27218.10	27219.77	27221.39	27222.91	27224.32	27225.59	27226.67	27227.55	27228.20	27227.45
6.0	27199.12	27201.21	27203.25	27205.20	27207.02	27208.68	27210.14	27211.37	27212.33	27211.55
6.5	27175.82	27178.35	27180.83	27183.22	27185.48	27187.56	27189.42	27191.01	27192.30	27191.32
7.0	27147.64	27150.64	27153.60	27156.46	27159.20	27161.73	27164.03	27166.02	27167.67	27166.51
7.5	27114.12	27117.62	27121.11	27124.51	27127.77	27130.83	27133.63	27136.10	27138.20	27137.04
8.0	27074.11	27078.14	27082.18	27086.13	27089.95	27093.55	27096.88	27099.86	27102.42	27101.34
8.5	27026.54	27031.12	27035.71	27040.22	27044.60	27048.74	27052.59	27056.05	27059.07	27058.11
9.0	26970.75	26975.86	26981.00	26986.06	26990.97	26995.63	26999.97	27003.90	27007.32	27006.48
9.5	26906.33	26911.96	26917.62	26923.20	26928.60	26933.73	26938.50	26942.81	26946.57	26945.78
10.0	26831.43	26837.54	26843.67	26849.71	26855.55	26861.09	26866.22	26870.84	26874.85	26874.17
10.5	26744.48	26750.98	26757.49	26763.89	26770.07	26775.90	26781.29	26786.11	26790.24	26789.95
11.0	26644.21	26651.06	26657.91	26664.64	26671.12	26677.21	26682.80	26687.76	26691.97	26692.05
11.5	26529.47	26536.71	26543.96	26551.06	26557.88	26564.26	26570.09	26575.22	26579.50	26579.63
12.0	26398.31	26405.89	26413.47	26420.88	26427.99	26434.62	26440.63	26445.87	26450.18	26450.28
12.5	26249.00	26256.79	26264.57	26272.17	26279.43	26286.19	26292.29	26297.57	26301.87	26302.05
13.0	26079.68	26087.59	26095.46	26103.12	26110.41	26117.15	26123.18	26128.34	26132.45	26132.70
13.5	25889.16	25897.05	25904.84	25912.35	25919.41	25925.84	25931.46	25936.11	25939.59	25939.74
14.0	25673.76	25681.60	25689.30	25696.66	25703.50	25709.63	25714.85	25718.99	25721.85	25721.93
14.5	25429.12	25437.04	25444.84	25452.30	25459.22	25465.39	25470.62	25474.68	25477.37	25477.61
15.0	25156.04	25164.05	25171.97	25179.58	25186.64	25192.94	25198.24	25202.34	25204.99	25205.55
15.5	24854.45	24862.42	24870.33	24877.93	24884.98	24891.26	24896.53	24900.55	24903.10	24904.11
16.0	24522.53	24530.57	24538.53	24546.18	24553.27	24559.56	24564.80	24568.74	24571.15	24572.90
16.5	24158.76	24167.16	24175.45	24183.38	24190.67	24197.07	24202.32	24206.15	24208.30	24211.39
17.0	23762.24	23771.20	23780.00	23788.38	23796.03	23802.68	23808.04	23811.84	23813.79	23818.36
17.5	23331.22	23340.92	23350.44	23359.46	23367.68	23374.79	23380.48	23384.43	23386.33	23392.14
18.0	22866.72	22877.26	22887.60	22897.40	22906.34	22914.07	22920.25	22924.56	22926.66	22933.67
18.5	22369.16	22380.53	22391.71	22402.33	22412.07	22420.58	22427.51	22432.52	22435.27	22443.59
19.0	21838.60	21850.86	21862.93	21874.45	21885.07	21894.45	21902.21	21908.03	21911.54	21921.23
19.5	21273.54	21286.83	21299.98	21312.58	21324.27	21334.66	21343.38	21350.05	21354.30	21365.40
20.0	20679.04	20693.31	20707.42	20720.95	20733.50	20744.65	20754.00	20761.15	20765.68	20778.30
20.5	20059.80	20074.96	20089.81	20103.90	20116.80	20128.06	20137.25	20143.94	20147.69	20162.07
21.0	19415.40	19430.91	19445.90	19459.91	19472.50	19483.21	19491.59	19497.20	19499.58	19515.73
21.5	18747.11	18761.55	18775.22	18787.74	18798.66	18807.58	18814.08	18817.75	18818.17	18836.08
22.0	18054.49	18067.71	18079.98	18090.94	18100.21	18107.39	18112.13	18114.03	18112.73	18132.01
22.5	17333.46	17346.75	17359.13	17370.20	17379.58	17386.86	17391.64	17393.55	17392.19	17411.74
23.0	16596.23	16609.51	16621.89	16632.97	16642.33	16649.56	16654.25	16655.99	16654.37	16674.17
23.5	15854.29	15866.14	15876.86	15886.05	15893.34	15898.33	15900.63	15899.87	15895.64	15917.11
24.0	15105.85	15116.07	15124.93	15132.05	15137.09	15139.69	15139.48	15136.12	15129.24	15152.10
24.5	14350.40	14359.84	14367.92	14374.28	14378.58	14380.48	14379.63	14375.69	14368.32	14390.53
25.0	13595.65	13604.34	13611.70	13617.41	13621.13	13622.52	13621.27	13617.03	13609.49	13630.71
25.5	12848.29	12855.51	12861.34	12865.48	12867.62	12867.45	12864.69	12859.01	12850.13	12871.53
26.0	12110.85	12116.68	12121.07	12123.71	12124.34	12122.66	12118.41	12111.31	12101.08	12122.72

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CANDELA TABULATION - (Cont.)

26.5	11386.41	11391.77	11395.68	11397.85	11398.00	11395.85	11391.12	11383.54	11372.82	11394.01
27.0	10680.00	10684.99	10688.54	10690.37	10690.19	10687.72	10682.69	10674.82	10663.83	10684.27
27.5	9998.86	10002.86	10005.39	10006.19	10005.01	10001.60	9995.71	9987.09	9975.49	9995.13
28.0	9339.33	9342.36	9343.90	9343.73	9341.62	9337.36	9330.74	9321.52	9309.51	9328.11
28.5	8698.06	8700.69	8701.89	8701.45	8699.17	8694.85	8688.28	8679.25	8667.57	8684.54
29.0	8081.38	8083.69	8084.64	8084.05	8081.72	8077.46	8071.07	8062.36	8051.14	8066.64
29.5	7495.05	7496.71	7497.06	7495.92	7493.13	7488.50	7481.88	7473.08	7461.93	7476.99
30.0	6937.48	6938.47	6938.18	6936.44	6933.12	6928.05	6921.10	6912.11	6900.93	6915.88
30.5	6408.36	6408.83	6408.01	6405.75	6401.94	6396.45	6389.14	6379.90	6368.58	6383.40
31.0	5909.55	5909.66	5908.48	5905.90	5901.82	5896.12	5888.70	5879.44	5868.24	5882.85
31.5	5442.20	5442.00	5440.62	5437.95	5433.90	5428.39	5421.31	5412.58	5402.10	5416.39
32.0	5008.11	5008.12	5007.10	5004.96	5001.59	4996.92	4990.83	4983.25	4974.08	4987.58
32.5	4608.61	4610.69	4612.01	4612.40	4611.72	4609.81	4606.51	4601.69	4595.18	4606.59
33.0	4246.28	4249.50	4252.18	4254.13	4255.15	4255.06	4253.69	4250.83	4246.32	4255.77
33.5	3929.90	3929.40	3928.31	3926.56	3924.10	3920.86	3916.78	3911.78	3905.81	3914.65
34.0	3642.10	3637.87	3632.97	3627.45	3621.37	3614.80	3607.77	3600.35	3592.58	3601.82
34.5	3363.94	3360.86	3357.16	3352.86	3347.98	3342.53	3336.54	3330.01	3322.97	3334.74
35.0	3108.90	3107.88	3106.33	3104.20	3101.44	3098.00	3093.83	3088.88	3083.10	3096.40
35.5	2887.58	2886.69	2885.35	2883.51	2881.11	2878.11	2874.45	2870.09	2864.97	2874.51
36.0	2689.70	2688.52	2686.96	2684.97	2682.53	2679.58	2676.09	2672.03	2667.35	2672.46
36.5	2508.84	2507.59	2505.98	2503.99	2501.58	2498.70	2495.33	2491.44	2486.98	2490.88
37.0	2344.02	2342.68	2341.00	2338.95	2336.50	2333.62	2330.27	2326.43	2322.06	2325.74
37.5	2192.43	2190.91	2189.07	2186.88	2184.32	2181.36	2177.97	2174.12	2169.79	2173.25
38.0	2053.20	2051.53	2049.54	2047.23	2044.57	2041.54	2038.12	2034.27	2029.99	2033.30
38.5	1924.93	1923.22	1921.22	1918.91	1916.28	1913.32	1909.99	1906.28	1902.18	1905.09
39.0	1806.46	1804.76	1802.79	1800.54	1797.99	1795.12	1791.92	1788.38	1784.46	1786.94
39.5	1696.12	1694.45	1692.53	1690.33	1687.83	1685.03	1681.90	1678.42	1674.59	1676.75
40.0	1594.05	1592.44	1590.58	1588.46	1586.05	1583.33	1580.28	1576.89	1573.13	1574.93
40.5	1500.99	1499.48	1497.74	1495.75	1493.49	1490.92	1488.04	1484.81	1481.21	1482.32
41.0	1413.45	1412.03	1410.41	1408.56	1406.45	1404.06	1401.37	1398.34	1394.96	1395.55
41.5	1326.85	1325.45	1323.88	1322.11	1320.12	1317.88	1315.39	1312.62	1309.54	1310.38
42.0	1245.25	1243.86	1242.32	1240.60	1238.71	1236.61	1234.30	1231.75	1228.95	1230.21
42.5	1172.13	1170.77	1169.28	1167.63	1165.81	1163.80	1161.59	1159.17	1156.51	1157.83
43.0	1104.63	1103.32	1101.88	1100.29	1098.53	1096.58	1094.45	1092.10	1089.52	1090.81
43.5	1041.12	1039.85	1038.45	1036.89	1035.16	1033.26	1031.16	1028.85	1026.33	1027.56
44.0	981.46	980.24	978.89	977.39	975.72	973.87	971.83	969.59	967.13	968.29
44.5	924.92	923.78	922.52	921.13	919.58	917.87	915.99	913.91	911.64	912.75
45.0	871.68	870.65	869.51	868.26	866.87	865.33	863.63	861.76	859.69	860.76
45.5	821.72	820.84	819.86	818.77	817.56	816.21	814.69	813.00	811.13	812.11
46.0	774.93	774.19	773.38	772.45	771.42	770.24	768.90	767.40	765.70	766.59
46.5	731.26	730.62	729.91	729.11	728.19	727.16	725.97	724.62	723.10	723.95
47.0	690.48	689.93	689.32	688.64	687.85	686.95	685.91	684.73	683.37	684.19
47.5	652.30	651.89	651.44	650.92	650.31	649.59	648.74	647.75	646.58	647.36
48.0	616.78	616.52	616.22	615.85	615.41	614.86	614.18	613.36	612.38	613.11
48.5	584.00	583.82	583.60	583.32	582.97	582.52	581.94	581.23	580.35	581.06
49.0	553.67	553.55	553.40	553.20	552.93	552.56	552.08	551.46	550.68	551.35
49.5	525.52	525.48	525.42	525.32	525.16	524.91	524.55	524.06	523.42	524.05
50.0	499.60	499.65	499.68	499.69	499.65	499.53	499.31	498.97	498.49	499.07
50.5	475.91	476.04	476.17	476.29	476.37	476.40	476.34	476.18	475.90	476.43
51.0	454.42	454.61	454.82	455.04	455.24	455.40	455.50	455.52	455.43	455.89
51.5	435.17	435.41	435.69	435.98	436.26	436.52	436.72	436.85	436.90	437.32
52.0	417.86	418.14	418.46	418.80	419.14	419.46	419.75	419.97	420.11	420.50
52.5	402.26	402.55	402.89	403.26	403.63	404.00	404.33	404.61	404.82	405.19
53.0	388.17	388.47	388.83	389.21	389.61	390.01	390.38	390.71	390.98	391.34
53.5	375.34	375.68	376.06	376.49	376.94	377.39	377.83	378.24	378.60	378.92
54.0	363.68	364.04	364.45	364.92	365.41	365.92	366.42	366.90	367.34	367.61

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CANDELA TABULATION - (Cont.)

54.5	353.11	353.46	353.88	354.35	354.85	355.37	355.90	356.40	356.88	357.12
55.0	343.29	343.64	344.06	344.54	345.05	345.59	346.14	346.68	347.19	347.40
55.5	333.71	334.11	334.59	335.13	335.72	336.33	336.96	337.59	338.19	338.38
56.0	324.75	325.18	325.71	326.30	326.95	327.62	328.31	329.00	329.67	329.87
56.5	316.76	317.16	317.64	318.19	318.79	319.42	320.06	320.71	321.33	321.60
57.0	309.32	309.67	310.10	310.58	311.12	311.68	312.26	312.84	313.40	313.72
57.5	302.08	302.41	302.83	303.30	303.82	304.37	304.93	305.50	306.05	306.30
58.0	295.15	295.48	295.90	296.37	296.89	297.44	298.00	298.55	299.10	299.26
58.5	288.55	288.89	289.30	289.77	290.29	290.83	291.38	291.93	292.45	292.58
59.0	282.25	282.58	282.99	283.45	283.96	284.48	285.02	285.54	286.04	286.15
59.5	276.22	276.54	276.92	277.36	277.83	278.32	278.82	279.30	279.75	279.84
60.0	270.40	270.69	271.05	271.45	271.89	272.33	272.78	273.21	273.61	273.69
60.5	264.72	264.99	265.32	265.69	266.09	266.49	266.89	267.27	267.62	267.70
61.0	259.12	259.38	259.68	260.02	260.39	260.75	261.11	261.45	261.75	261.81
61.5	253.52	253.77	254.06	254.39	254.74	255.09	255.42	255.72	255.98	256.03
62.0	247.91	248.16	248.45	248.77	249.10	249.42	249.73	250.00	250.23	250.26
62.5	242.27	242.50	242.78	243.08	243.38	243.68	243.95	244.19	244.38	244.43
63.0	236.61	236.83	237.08	237.35	237.63	237.90	238.15	238.36	238.51	238.57
63.5	230.93	231.13	231.36	231.61	231.87	232.12	232.34	232.53	232.66	232.69
64.0	225.24	225.42	225.63	225.86	226.09	226.32	226.52	226.68	226.80	226.80
64.5	219.57	219.72	219.91	220.11	220.32	220.51	220.68	220.82	220.90	220.90
65.0	213.92	214.04	214.20	214.37	214.55	214.71	214.85	214.96	215.01	215.00
65.5	208.29	208.39	208.52	208.67	208.82	208.95	209.06	209.13	209.15	209.12
66.0	202.67	202.75	202.85	202.97	203.08	203.19	203.26	203.31	203.30	203.25
66.5	197.00	197.05	197.13	197.22	197.30	197.38	197.44	197.46	197.43	197.39
67.0	191.34	191.36	191.41	191.47	191.54	191.60	191.63	191.64	191.61	191.56
67.5	185.69	185.70	185.73	185.78	185.83	185.87	185.90	185.90	185.87	185.81
68.0	180.12	180.10	180.11	180.14	180.17	180.20	180.22	180.22	180.18	180.11
68.5	174.67	174.62	174.60	174.59	174.59	174.59	174.58	174.55	174.49	174.43
69.0	169.28	169.21	169.15	169.11	169.08	169.05	169.01	168.96	168.88	168.83
69.5	163.91	163.82	163.76	163.70	163.66	163.62	163.57	163.51	163.43	163.37
70.0	158.57	158.48	158.41	158.35	158.30	158.25	158.20	158.14	158.06	158.00
70.5	153.27	153.17	153.09	153.02	152.97	152.92	152.86	152.80	152.73	152.69
71.0	148.00	147.89	147.81	147.75	147.69	147.65	147.60	147.54	147.48	147.47
71.5	142.75	142.66	142.60	142.55	142.51	142.48	142.45	142.41	142.37	142.36
72.0	137.57	137.50	137.46	137.43	137.42	137.41	137.40	137.39	137.38	137.38
72.5	132.51	132.46	132.44	132.44	132.45	132.47	132.50	132.52	132.53	132.55
73.0	127.51	127.49	127.49	127.52	127.56	127.60	127.65	127.70	127.74	127.77
73.5	122.57	122.57	122.59	122.63	122.67	122.73	122.79	122.84	122.88	122.93
74.0	117.62	117.63	117.67	117.72	117.78	117.84	117.90	117.96	118.00	118.07
74.5	112.55	112.58	112.63	112.70	112.78	112.87	112.96	113.04	113.10	113.22
75.0	107.46	107.51	107.58	107.67	107.77	107.88	108.00	108.10	108.20	108.35
75.5	102.42	102.48	102.57	102.68	102.80	102.92	103.05	103.17	103.29	103.46
76.0	97.41	97.48	97.59	97.71	97.84	97.98	98.12	98.26	98.38	98.57
76.5	92.42	92.51	92.63	92.76	92.91	93.06	93.21	93.36	93.49	93.68
77.0	87.48	87.58	87.70	87.85	88.00	88.17	88.32	88.48	88.61	88.81
77.5	82.59	82.70	82.83	82.97	83.12	83.28	83.44	83.59	83.72	83.93
78.0	77.80	77.90	78.02	78.16	78.31	78.46	78.61	78.75	78.88	79.10
78.5	73.11	73.21	73.33	73.46	73.61	73.75	73.90	74.04	74.16	74.37
79.0	68.53	68.62	68.74	68.87	69.01	69.15	69.29	69.42	69.54	69.74
79.5	64.08	64.17	64.27	64.39	64.53	64.66	64.80	64.93	65.05	65.22
80.0	59.70	59.78	59.88	59.99	60.11	60.24	60.37	60.50	60.62	60.78
80.5	55.38	55.45	55.54	55.64	55.76	55.88	56.01	56.13	56.26	56.37
81.0	51.00	51.06	51.14	51.24	51.35	51.47	51.59	51.72	51.84	51.92
81.5	46.41	46.48	46.56	46.67	46.78	46.90	47.03	47.16	47.29	47.34
82.0	41.64	41.71	41.80	41.91	42.03	42.15	42.28	42.41	42.54	42.56

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CANDELA TABULATION - (Cont.)

82.5	36.58	36.65	36.74	36.84	36.95	37.06	37.18	37.29	37.40	37.39
83.0	31.47	31.52	31.59	31.67	31.76	31.85	31.94	32.02	32.10	32.07
83.5	26.45	26.47	26.49	26.52	26.55	26.57	26.60	26.61	26.62	26.60
84.0	21.66	21.64	21.62	21.60	21.58	21.55	21.52	21.47	21.42	21.41
84.5	17.33	17.31	17.29	17.26	17.24	17.21	17.17	17.12	17.06	17.06
85.0	13.35	13.34	13.33	13.32	13.31	13.29	13.26	13.23	13.18	13.18
85.5	9.59	9.59	9.60	9.60	9.59	9.59	9.57	9.54	9.51	9.50
86.0	6.39	6.40	6.41	6.41	6.41	6.40	6.39	6.37	6.33	6.33
86.5	4.07	4.07	4.05	4.04	4.02	3.99	3.95	3.91	3.85	3.86
87.0	2.49	2.47	2.44	2.41	2.37	2.32	2.27	2.21	2.14	2.16
87.5	1.73	1.72	1.70	1.68	1.66	1.63	1.60	1.56	1.52	1.53
88.0	1.44	1.44	1.44	1.44	1.44	1.43	1.43	1.42	1.41	1.41
88.5	1.31	1.31	1.32	1.32	1.32	1.32	1.32	1.32	1.31	1.31
89.0	1.31	1.31	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.31
89.5	1.29	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
90.0	1.31	1.31	1.31	1.32	1.32	1.32	1.32	1.32	1.32	1.32

**Vert.
Angles**

Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27278.77	27278.70	27278.63	27278.56	27278.50	27278.44	27278.40	27278.37	27278.41	27278.45
1.0	27277.60	27277.44	27277.28	27277.12	27276.98	27276.85	27276.74	27276.65	27276.67	27276.71
1.5	27276.69	27276.41	27276.13	27275.87	27275.63	27275.40	27275.19	27275.01	27274.94	27274.90
2.0	27275.44	27275.04	27274.65	27274.28	27273.91	27273.57	27273.25	27272.95	27272.79	27272.64
2.5	27273.46	27272.98	27272.50	27272.00	27271.52	27271.04	27270.58	27270.14	27269.96	27269.79
3.0	27270.34	27269.82	27269.26	27268.66	27268.05	27267.44	27266.84	27266.25	27266.02	27265.82
3.5	27265.63	27265.15	27264.59	27263.97	27263.30	27262.60	27261.87	27261.15	27260.75	27260.37
4.0	27259.08	27258.59	27257.98	27257.28	27256.50	27255.67	27254.79	27253.89	27253.32	27252.74
4.5	27250.26	27249.50	27248.62	27247.63	27246.57	27245.45	27244.31	27243.16	27242.47	27241.79
5.0	27239.25	27238.19	27236.99	27235.69	27234.31	27232.89	27231.45	27230.04	27229.24	27228.48
5.5	27226.47	27225.28	27223.92	27222.43	27220.84	27219.20	27217.53	27215.88	27214.93	27214.04
6.0	27210.49	27209.18	27207.67	27206.00	27204.21	27202.36	27200.47	27198.61	27197.57	27196.58
6.5	27190.03	27188.47	27186.71	27184.79	27182.76	27180.68	27178.58	27176.54	27175.60	27174.73
7.0	27165.01	27163.23	27161.22	27159.05	27156.77	27154.45	27152.14	27149.90	27149.04	27148.28
7.5	27135.48	27133.59	27131.43	27129.07	27126.57	27124.00	27121.43	27118.93	27117.88	27116.93
8.0	27099.79	27097.84	27095.58	27093.06	27090.36	27087.57	27084.73	27081.95	27080.68	27079.49
8.5	27056.61	27054.65	27052.31	27049.68	27046.84	27043.86	27040.83	27037.84	27036.46	27035.18
9.0	27005.03	27003.06	27000.65	26997.90	26994.89	26991.72	26988.48	26985.26	26983.80	26982.42
9.5	26944.29	26942.20	26939.61	26936.62	26933.33	26929.85	26926.28	26922.72	26921.09	26919.55
10.0	26872.70	26870.54	26867.81	26864.62	26861.08	26857.32	26853.44	26849.56	26847.77	26846.08
10.5	26788.77	26786.80	26784.18	26781.03	26777.47	26773.64	26769.64	26765.62	26763.80	26762.05
11.0	26691.13	26689.33	26686.80	26683.66	26680.06	26676.13	26672.00	26667.83	26666.01	26664.26
11.5	26578.64	26576.69	26573.92	26570.50	26566.57	26562.29	26557.80	26553.29	26551.46	26549.71
12.0	26449.15	26446.97	26443.91	26440.13	26435.82	26431.13	26426.25	26421.35	26419.48	26417.72
12.5	26300.92	26298.65	26295.43	26291.43	26286.85	26281.87	26276.68	26271.46	26269.43	26267.52
13.0	26131.54	26129.18	26125.79	26121.58	26116.75	26111.49	26106.00	26100.49	26098.33	26096.32
13.5	25938.41	25935.81	25932.15	25927.64	25922.50	25916.93	25911.15	25905.38	25903.28	25901.38
14.0	25720.45	25717.63	25713.70	25708.89	25703.42	25697.53	25691.45	25685.42	25683.44	25681.70
14.5	25476.13	25473.18	25469.03	25463.91	25458.08	25451.80	25445.32	25438.91	25437.02	25435.41
15.0	25204.23	25201.32	25197.09	25191.81	25185.75	25179.19	25172.41	25165.70	25163.89	25162.39
15.5	24903.16	24900.54	24896.52	24891.38	24885.42	24878.92	24872.18	24865.48	24863.79	24862.41
16.0	24572.59	24570.50	24566.97	24562.14	24556.46	24550.17	24543.56	24536.95	24535.34	24533.98
16.5	24212.20	24211.02	24208.17	24203.95	24198.65	24192.61	24186.11	24179.48	24177.70	24176.10
17.0	23820.41	23820.25	23818.20	23814.57	23809.69	23803.89	23797.49	23790.83	23788.93	23787.10
17.5	23395.18	23395.80	23394.34	23391.13	23386.53	23380.88	23374.55	23367.87	23366.24	23364.63

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18.0	22937.70	22939.09	22938.21	22935.43	22931.11	22925.62	22919.34	22912.64	22911.23	22909.79
18.5	22448.72	22451.03	22450.88	22448.65	22444.72	22439.46	22433.26	22426.50	22424.81	22422.97
19.0	21927.52	21930.78	21931.41	21929.76	21926.24	21921.22	21915.10	21908.28	21906.31	21904.07
19.5	21372.86	21377.06	21378.41	21377.31	21374.16	21369.37	21363.35	21356.52	21354.83	21352.77
20.0	20787.00	20792.18	20794.27	20793.70	20790.89	20786.29	20780.32	20773.43	20772.00	20770.12
20.5	20172.13	20178.31	20181.09	20180.91	20178.24	20173.56	20167.34	20160.04	20158.32	20156.04
21.0	19527.25	19534.60	19538.27	19538.73	19536.48	19532.02	19525.81	19518.38	19516.36	19513.67
21.5	18849.34	18858.40	18863.72	18865.76	18864.98	18861.85	18856.83	18850.41	18848.48	18845.72
22.0	18146.71	18157.25	18164.05	18167.56	18168.21	18166.43	18162.68	18157.39	18155.89	18153.43
22.5	17426.62	17437.30	17444.21	17447.80	17448.55	17446.90	17443.33	17438.31	17437.77	17436.35
23.0	16689.23	16700.04	16707.05	16710.74	16711.60	16710.11	16706.75	16702.02	16702.52	16702.20
23.5	15933.84	15946.28	15954.90	15960.14	15962.48	15962.38	15960.31	15956.76	15957.70	15957.71
24.0	15170.30	15184.25	15194.40	15201.17	15205.02	15206.38	15205.70	15203.44	15204.95	15205.43
24.5	14408.26	14421.94	14432.01	14438.89	14443.02	14444.85	14444.81	14443.38	14446.30	14448.36
25.0	13647.69	13660.85	13670.61	13677.41	13681.68	13683.86	13684.39	13683.72	13688.12	13691.80
25.5	12888.89	12902.59	12913.04	12920.66	12925.85	12929.04	12930.64	12931.09	12936.34	12940.90
26.0	12140.49	12154.75	12165.90	12174.31	12180.38	12184.49	12187.05	12188.46	12194.18	12199.20
26.5	11411.47	11425.56	11436.65	11445.12	11451.33	11455.66	11458.50	11460.22	11465.94	11470.98
27.0	10701.14	10714.77	10725.53	10733.77	10739.85	10744.13	10746.98	10748.77	10754.30	10759.19
27.5	10011.35	10024.49	10034.88	10042.88	10048.81	10053.04	10055.90	10057.77	10063.14	10067.93
28.0	9343.48	9355.93	9365.79	9373.39	9379.06	9383.13	9385.94	9387.83	9393.15	9397.95
28.5	8698.52	8709.81	8718.72	8725.58	8730.70	8734.41	8737.03	8738.88	8744.43	8749.59
29.0	8079.39	8089.68	8097.80	8104.06	8108.77	8112.24	8114.78	8116.70	8122.54	8128.11
29.5	7489.46	7499.63	7507.78	7514.19	7519.14	7522.93	7525.84	7528.18	7534.27	7540.09
30.0	6928.41	6938.76	6947.20	6953.98	6959.37	6963.63	6967.03	6969.84	6976.03	6981.90
30.5	6395.93	6406.41	6415.08	6422.15	6427.87	6432.48	6436.22	6439.33	6445.18	6450.67
31.0	5895.32	5905.86	5914.67	5921.96	5927.95	5932.83	5936.84	5940.19	5945.64	5950.69
31.5	5428.72	5439.28	5448.25	5455.80	5462.11	5467.36	5471.75	5475.46	5480.69	5485.48
32.0	4999.26	5009.29	5017.84	5025.07	5031.16	5036.28	5040.60	5044.29	5049.57	5054.44
32.5	4616.07	4623.83	4630.11	4635.14	4639.14	4642.35	4645.01	4647.35	4653.54	4659.60
33.0	4263.26	4269.05	4273.40	4276.60	4278.89	4280.57	4281.90	4283.16	4289.83	4296.60
33.5	3922.12	3928.39	3933.61	3937.95	3941.55	3944.59	3947.23	3949.64	3954.79	3959.84
34.0	3610.23	3617.84	3624.70	3630.85	3636.33	3641.19	3645.46	3649.20	3652.33	3655.02
34.5	3345.33	3354.78	3363.13	3370.42	3376.70	3382.00	3386.37	3389.86	3391.25	3391.94
35.0	3108.16	3118.44	3127.30	3134.81	3141.05	3146.07	3149.96	3152.78	3153.12	3152.65
35.5	2882.95	2890.33	2896.71	2902.16	2906.74	2910.50	2913.52	2915.86	2917.06	2917.76
36.0	2676.99	2681.00	2684.54	2687.65	2690.38	2692.79	2694.93	2696.85	2699.24	2701.46
36.5	2494.35	2497.44	2500.17	2502.60	2504.78	2506.74	2508.54	2510.23	2512.62	2514.93
37.0	2329.01	2331.91	2334.48	2336.75	2338.78	2340.59	2342.24	2343.77	2345.85	2347.85
37.5	2176.31	2179.03	2181.43	2183.54	2185.42	2187.09	2188.60	2189.98	2191.82	2193.58
38.0	2036.23	2038.83	2041.12	2043.14	2044.92	2046.49	2047.89	2049.16	2050.77	2052.29
38.5	1907.70	1910.03	1912.11	1913.97	1915.62	1917.11	1918.44	1919.66	1921.07	1922.41
39.0	1789.18	1791.20	1793.02	1794.66	1796.15	1797.50	1798.73	1799.87	1801.16	1802.39
39.5	1678.67	1680.37	1681.88	1683.21	1684.41	1685.50	1686.49	1687.43	1688.77	1690.08
40.0	1576.48	1577.81	1578.95	1579.94	1580.80	1581.58	1582.30	1582.99	1584.36	1585.73
40.5	1483.24	1484.00	1484.62	1485.15	1485.60	1486.01	1486.40	1486.82	1487.93	1489.07
41.0	1396.00	1396.35	1396.63	1396.84	1397.03	1397.21	1397.42	1397.67	1398.59	1399.57
41.5	1311.09	1311.71	1312.24	1312.72	1313.17	1313.61	1314.08	1314.59	1315.86	1317.18
42.0	1231.32	1232.30	1233.19	1234.00	1234.77	1235.51	1236.25	1237.02	1238.58	1240.17
42.5	1158.98	1159.97	1160.83	1161.59	1162.27	1162.90	1163.49	1164.08	1165.24	1166.41
43.0	1091.89	1092.80	1093.56	1094.18	1094.70	1095.13	1095.49	1095.82	1096.47	1097.11
43.5	1028.59	1029.46	1030.17	1030.74	1031.21	1031.59	1031.89	1032.15	1032.62	1033.08
44.0	969.27	970.08	970.76	971.30	971.74	972.10	972.38	972.62	973.03	973.42
44.5	913.69	914.47	915.11	915.63	916.05	916.38	916.64	916.86	917.25	917.62
45.0	861.65	862.39	862.99	863.47	863.85	864.15	864.39	864.58	864.98	865.35
45.5	812.91	813.57	814.09	814.49	814.80	815.03	815.21	815.34	815.71	816.05

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46.0	767.32	767.90	768.35	768.68	768.92	769.09	769.20	769.29	769.60	769.91
46.5	724.65	725.20	725.63	725.95	726.18	726.34	726.45	726.52	726.80	727.06
47.0	684.87	685.40	685.82	686.14	686.36	686.52	686.62	686.69	686.91	687.11
47.5	647.99	648.48	648.85	649.11	649.29	649.39	649.44	649.44	649.59	649.73
48.0	613.69	614.14	614.45	614.67	614.79	614.84	614.83	614.78	614.87	614.95
48.5	581.61	582.03	582.33	582.53	582.64	582.68	582.67	582.62	582.70	582.76
49.0	551.88	552.28	552.57	552.76	552.87	552.91	552.90	552.85	552.93	552.99
49.5	524.54	524.91	525.18	525.34	525.43	525.46	525.43	525.37	525.43	525.47
50.0	499.52	499.86	500.09	500.23	500.30	500.30	500.25	500.17	500.20	500.22
50.5	476.83	477.12	477.31	477.42	477.46	477.44	477.37	477.28	477.28	477.27
51.0	456.24	456.49	456.65	456.73	456.75	456.70	456.62	456.51	456.48	456.45
51.5	437.64	437.86	437.99	438.05	438.05	437.99	437.90	437.77	437.72	437.66
52.0	420.80	421.00	421.11	421.16	421.14	421.08	420.97	420.84	420.76	420.68
52.5	405.48	405.67	405.78	405.83	405.81	405.75	405.64	405.51	405.41	405.30
53.0	391.61	391.79	391.90	391.94	391.92	391.85	391.74	391.60	391.49	391.37
53.5	379.15	379.29	379.37	379.38	379.33	379.24	379.11	378.95	378.83	378.69
54.0	367.80	367.90	367.94	367.91	367.83	367.71	367.56	367.38	367.26	367.12
54.5	357.27	357.34	357.35	357.30	357.20	357.07	356.90	356.72	356.60	356.48
55.0	347.53	347.58	347.56	347.49	347.37	347.21	347.03	346.83	346.73	346.62
55.5	338.49	338.51	338.46	338.36	338.20	338.01	337.78	337.55	337.42	337.30
56.0	329.98	330.00	329.94	329.81	329.63	329.41	329.16	328.89	328.73	328.57
56.5	321.77	321.85	321.85	321.78	321.64	321.46	321.23	320.98	320.75	320.51
57.0	313.93	314.06	314.11	314.08	314.00	313.85	313.66	313.42	313.13	312.83
57.5	306.46	306.54	306.54	306.48	306.37	306.20	305.99	305.75	305.48	305.19
58.0	299.34	299.35	299.30	299.18	299.02	298.82	298.59	298.33	298.09	297.84
58.5	292.63	292.60	292.51	292.37	292.19	291.96	291.71	291.44	291.21	290.96
59.0	286.17	286.13	286.02	285.86	285.66	285.43	285.16	284.88	284.65	284.41
59.5	279.86	279.81	279.70	279.53	279.33	279.09	278.83	278.55	278.33	278.10
60.0	273.70	273.65	273.54	273.38	273.18	272.95	272.69	272.42	272.20	271.97
60.5	267.70	267.64	267.53	267.37	267.17	266.94	266.69	266.42	266.21	266.00
61.0	261.81	261.74	261.62	261.46	261.26	261.03	260.78	260.52	260.32	260.11
61.5	256.00	255.92	255.79	255.61	255.40	255.16	254.90	254.63	254.44	254.24
62.0	250.23	250.14	249.99	249.80	249.58	249.33	249.07	248.80	248.61	248.42
62.5	244.41	244.34	244.21	244.03	243.82	243.59	243.34	243.07	242.88	242.69
63.0	238.57	238.50	238.39	238.23	238.04	237.82	237.58	237.33	237.14	236.95
63.5	232.67	232.59	232.47	232.31	232.12	231.91	231.68	231.44	231.27	231.10
64.0	226.76	226.66	226.53	226.36	226.16	225.95	225.73	225.50	225.36	225.22
64.5	220.84	220.74	220.61	220.44	220.25	220.05	219.83	219.61	219.48	219.34
65.0	214.94	214.83	214.70	214.53	214.35	214.14	213.94	213.73	213.60	213.47
65.5	209.04	208.93	208.78	208.61	208.42	208.22	208.02	207.81	207.70	207.60
66.0	203.17	203.04	202.89	202.72	202.53	202.33	202.13	201.93	201.84	201.75
66.5	197.31	197.19	197.05	196.88	196.70	196.52	196.33	196.15	196.07	196.00
67.0	191.48	191.37	191.24	191.09	190.92	190.75	190.58	190.42	190.35	190.29
67.5	185.72	185.60	185.46	185.30	185.14	184.97	184.81	184.66	184.60	184.57
68.0	180.00	179.88	179.74	179.58	179.42	179.26	179.11	178.97	178.94	178.92
68.5	174.34	174.23	174.11	173.98	173.85	173.72	173.60	173.48	173.46	173.45
69.0	168.76	168.67	168.57	168.47	168.37	168.27	168.17	168.08	168.06	168.06
69.5	163.29	163.21	163.12	163.03	162.94	162.85	162.76	162.69	162.67	162.67
70.0	157.93	157.85	157.77	157.68	157.60	157.52	157.44	157.38	157.36	157.35
70.5	152.64	152.58	152.52	152.45	152.39	152.32	152.26	152.21	152.19	152.18
71.0	147.44	147.41	147.37	147.32	147.27	147.22	147.18	147.13	147.12	147.11
71.5	142.35	142.32	142.29	142.26	142.22	142.18	142.15	142.12	142.11	142.12
72.0	137.37	137.35	137.33	137.30	137.27	137.24	137.21	137.19	137.20	137.22
72.5	132.55	132.55	132.53	132.51	132.49	132.46	132.44	132.42	132.43	132.44
73.0	127.79	127.80	127.79	127.78	127.76	127.74	127.71	127.69	127.70	127.71
73.5	122.96	122.98	122.99	122.99	122.97	122.96	122.94	122.92	122.92	122.93

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74.0	118.13	118.17	118.19	118.20	118.20	118.19	118.18	118.16	118.16	118.16
74.5	113.31	113.38	113.44	113.48	113.50	113.51	113.51	113.50	113.48	113.47
75.0	108.48	108.59	108.67	108.73	108.78	108.80	108.81	108.81	108.78	108.75
75.5	103.61	103.73	103.82	103.89	103.94	103.98	103.99	103.99	103.96	103.91
76.0	98.72	98.84	98.94	99.02	99.07	99.10	99.11	99.11	99.07	99.02
76.5	93.84	93.97	94.07	94.14	94.18	94.21	94.21	94.20	94.15	94.10
77.0	88.97	89.10	89.20	89.26	89.31	89.32	89.32	89.30	89.25	89.18
77.5	84.11	84.25	84.35	84.42	84.47	84.49	84.49	84.46	84.40	84.33
78.0	79.29	79.43	79.54	79.62	79.67	79.70	79.69	79.67	79.61	79.53
78.5	74.55	74.68	74.79	74.87	74.92	74.94	74.94	74.92	74.87	74.80
79.0	69.89	70.02	70.11	70.18	70.23	70.25	70.25	70.23	70.19	70.13
79.5	65.37	65.48	65.56	65.62	65.66	65.67	65.67	65.65	65.61	65.55
80.0	60.90	60.99	61.06	61.11	61.13	61.13	61.12	61.10	61.06	61.00
80.5	56.46	56.52	56.56	56.59	56.59	56.58	56.56	56.53	56.49	56.44
81.0	51.97	52.00	52.01	52.01	51.99	51.96	51.93	51.89	51.85	51.82
81.5	47.36	47.37	47.36	47.33	47.30	47.25	47.20	47.15	47.12	47.09
82.0	42.56	42.54	42.51	42.46	42.41	42.35	42.28	42.22	42.19	42.17
82.5	37.36	37.32	37.26	37.19	37.12	37.04	36.96	36.88	36.85	36.82
83.0	32.02	31.96	31.88	31.80	31.72	31.63	31.54	31.46	31.41	31.38
83.5	26.56	26.51	26.46	26.39	26.32	26.25	26.18	26.11	26.07	26.04
84.0	21.39	21.36	21.33	21.29	21.24	21.19	21.14	21.09	21.06	21.03
84.5	17.04	17.02	16.99	16.96	16.92	16.87	16.83	16.79	16.76	16.74
85.0	13.17	13.15	13.12	13.09	13.05	13.01	12.97	12.94	12.91	12.89
85.5	9.49	9.47	9.45	9.42	9.38	9.34	9.30	9.26	9.24	9.21
86.0	6.33	6.31	6.29	6.26	6.23	6.19	6.16	6.12	6.09	6.06
86.5	3.87	3.87	3.86	3.85	3.84	3.82	3.80	3.78	3.76	3.74
87.0	2.17	2.18	2.19	2.20	2.20	2.20	2.20	2.20	2.18	2.17
87.5	1.53	1.54	1.54	1.55	1.55	1.55	1.55	1.55	1.55	1.54
88.0	1.41	1.40	1.40	1.40	1.39	1.39	1.39	1.39	1.39	1.39
88.5	1.31	1.30	1.30	1.30	1.29	1.29	1.29	1.29	1.29	1.29
89.0	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.30
89.5	1.30	1.30	1.30	1.29	1.29	1.29	1.29	1.29	1.29	1.29
90.0	1.32	1.32	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.31

**Vert.
Angles**

Horizontal Angles

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27278.52	27278.58	27278.65	27278.73	27278.80	27278.88	27278.95	27279.00	27279.05	27279.08
1.0	27276.77	27276.84	27276.92	27277.00	27277.09	27277.17	27277.24	27277.27	27277.29	27277.30
1.5	27274.88	27274.86	27274.86	27274.87	27274.88	27274.88	27274.87	27274.82	27274.75	27274.66
2.0	27272.52	27272.40	27272.30	27272.20	27272.10	27271.98	27271.86	27271.63	27271.39	27271.14
2.5	27269.64	27269.50	27269.36	27269.21	27269.03	27268.83	27268.59	27268.05	27267.48	27266.88
3.0	27265.62	27265.42	27265.20	27264.97	27264.69	27264.37	27263.99	27263.13	27262.21	27261.27
3.5	27259.97	27259.56	27259.14	27258.68	27258.17	27257.62	27257.01	27255.95	27254.84	27253.70
4.0	27252.14	27251.53	27250.88	27250.21	27249.50	27248.74	27247.94	27246.73	27245.50	27244.24
4.5	27241.11	27240.43	27239.74	27239.03	27238.28	27237.50	27236.67	27235.41	27234.13	27232.82
5.0	27227.75	27227.03	27226.32	27225.59	27224.84	27224.05	27223.22	27221.91	27220.56	27219.20
5.5	27213.16	27212.30	27211.45	27210.59	27209.70	27208.78	27207.82	27206.37	27204.88	27203.36
6.0	27195.62	27194.67	27193.72	27192.77	27191.78	27190.75	27189.66	27188.03	27186.35	27184.64
6.5	27173.91	27173.12	27172.33	27171.52	27170.65	27169.71	27168.68	27166.84	27164.90	27162.89
7.0	27147.58	27146.92	27146.25	27145.56	27144.79	27143.93	27142.93	27140.88	27138.70	27136.41
7.5	27116.05	27115.21	27114.36	27113.48	27112.54	27111.50	27110.32	27108.13	27105.81	27103.38
8.0	27078.37	27077.28	27076.18	27075.06	27073.88	27072.61	27071.22	27068.89	27066.45	27063.90
8.5	27033.95	27032.75	27031.54	27030.29	27028.98	27027.57	27026.03	27023.54	27020.91	27018.18
9.0	26981.10	26979.80	26978.49	26977.13	26975.71	26974.17	26972.50	26969.84	26967.03	26964.12

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9.5	26918.06	26916.60	26915.13	26913.63	26912.05	26910.37	26908.56	26905.75	26902.81	26899.76
10.0	26844.44	26842.83	26841.21	26839.56	26837.85	26836.03	26834.08	26831.13	26828.06	26824.88
10.5	26760.35	26758.66	26756.94	26755.18	26753.33	26751.37	26749.27	26746.14	26742.88	26739.50
11.0	26662.53	26660.81	26659.05	26657.23	26655.31	26653.27	26651.08	26647.83	26644.43	26640.91
11.5	26548.03	26546.36	26544.67	26542.93	26541.10	26539.15	26537.04	26533.84	26530.49	26527.00
12.0	26416.05	26414.43	26412.81	26411.16	26409.43	26407.59	26405.60	26402.54	26399.30	26395.93
12.5	26265.72	26263.98	26262.26	26260.52	26258.74	26256.86	26254.86	26251.90	26248.79	26245.57
13.0	26094.42	26092.60	26090.82	26089.06	26087.27	26085.41	26083.46	26080.66	26077.75	26074.74
13.5	25899.63	25898.01	25896.46	25894.95	25893.44	25891.89	25890.27	25887.81	25885.25	25882.60
14.0	25680.18	25678.80	25677.54	25676.35	25675.18	25673.98	25672.71	25670.55	25668.29	25665.93
14.5	25434.04	25432.84	25431.78	25430.79	25429.82	25428.83	25427.75	25425.54	25423.21	25420.81
15.0	25161.14	25160.08	25159.15	25158.30	25157.47	25156.61	25155.65	25153.34	25150.92	25148.41
15.5	24861.27	24860.32	24859.50	24858.77	24858.05	24857.31	24856.48	24854.30	24852.03	24849.68
16.0	24532.84	24531.86	24531.01	24530.22	24529.46	24528.67	24527.81	24525.76	24523.61	24521.41
16.5	24174.63	24173.27	24171.98	24170.73	24169.50	24168.24	24166.94	24164.78	24162.56	24160.31
17.0	23785.33	23783.59	23781.87	23780.15	23778.42	23776.65	23774.83	23772.45	23770.02	23767.56
17.5	23363.02	23361.39	23359.74	23358.04	23356.27	23354.41	23352.46	23349.76	23346.97	23344.13
18.0	22908.30	22906.73	22905.08	22903.32	22901.44	22899.41	22897.22	22894.05	22890.75	22887.35
18.5	22420.97	22418.81	22416.48	22413.98	22411.32	22408.48	22405.46	22401.56	22397.53	22393.42
19.0	21901.55	21898.77	21895.74	21892.47	21888.96	21885.24	21881.31	21876.55	21871.65	21866.67
19.5	21350.34	21347.56	21344.43	21340.96	21337.14	21332.99	21328.52	21322.70	21316.65	21310.44
20.0	20767.80	20765.03	20761.82	20758.18	20754.10	20749.59	20744.66	20738.01	20731.04	20723.84
20.5	20153.24	20149.94	20146.16	20141.91	20137.22	20132.11	20126.59	20119.91	20112.93	20105.73
21.0	19510.37	19506.50	19502.11	19497.24	19491.93	19486.24	19480.20	19473.79	19467.12	19460.26
21.5	18842.21	18838.00	18833.19	18827.84	18822.03	18815.82	18809.30	18803.12	18796.73	18790.16
22.0	18150.10	18145.98	18141.19	18135.79	18129.89	18123.57	18116.93	18111.03	18104.92	18098.61
22.5	17434.09	17431.08	17427.37	17423.03	17418.13	17412.73	17406.90	17401.14	17395.04	17388.65
23.0	16701.11	16699.29	16696.78	16693.63	16689.88	16685.56	16680.72	16675.37	16669.58	16663.41
23.5	15956.88	15955.26	15952.93	15949.95	15946.39	15942.32	15937.80	15933.78	15929.38	15924.62
24.0	15205.00	15203.74	15201.74	15199.10	15195.91	15192.25	15188.23	15185.62	15182.70	15179.44
24.5	14449.59	14445.05	14449.80	14448.91	14447.41	14445.37	14442.85	14440.94	14438.59	14435.76
25.0	13694.78	13697.07	13698.69	13699.65	13699.97	13699.67	13698.75	13697.49	13695.63	13693.17
25.5	12944.77	12947.96	12950.50	12952.40	12953.67	12954.32	12954.38	12954.21	12953.44	12952.06
26.0	12203.53	12207.20	12210.24	12212.67	12214.51	12215.79	12216.54	12217.54	12218.00	12217.89
26.5	11475.39	11479.18	11482.40	11485.08	11487.25	11488.96	11490.22	11492.29	11493.90	11494.99
27.0	10763.50	10767.26	10770.52	10773.31	10775.69	10777.68	10779.35	10782.33	10784.95	10787.11
27.5	10072.19	10075.96	10079.28	10082.20	10084.78	10087.05	10089.06	10092.71	10096.06	10099.02
28.0	9402.28	9406.17	9409.68	9412.84	9415.71	9418.32	9420.72	9424.79	9428.60	9432.06
28.5	8754.37	8758.81	8762.92	8766.72	8770.25	8773.52	8776.55	8780.73	8784.62	8788.14
29.0	8133.38	8138.37	8143.07	8147.49	8151.63	8155.48	8159.05	8163.16	8166.92	8170.28
29.5	7545.61	7550.85	7555.78	7560.41	7564.72	7568.71	7572.37	7576.23	7579.71	7582.77
30.0	6987.45	6992.68	6997.58	7002.15	7006.38	7010.27	7013.82	7017.50	7020.79	7023.65
30.5	6455.82	6460.62	6465.11	6469.28	6473.15	6476.73	6480.04	6484.03	6487.70	6490.99
31.0	5955.37	5959.69	5963.71	5967.43	5970.89	5974.12	5977.14	5981.40	5985.40	5989.08
31.5	5489.86	5493.86	5497.53	5500.89	5504.00	5506.88	5509.57	5513.64	5517.49	5521.03
32.0	5058.91	5063.02	5066.78	5070.23	5073.38	5076.26	5078.89	5082.36	5085.55	5088.41
32.5	4665.49	4671.13	4676.49	4681.50	4686.10	4690.25	4693.89	4695.76	4697.09	4697.92
33.0	4303.37	4310.00	4316.40	4322.44	4328.02	4333.02	4337.32	4337.97	4337.92	4337.26
33.5	3964.74	3969.44	3973.89	3978.05	3981.88	3985.33	3988.36	3989.85	3990.91	3991.57
34.0	3657.34	3659.34	3661.08	3662.62	3664.00	3665.29	3666.55	3669.47	3672.35	3675.11
34.5	3392.08	3391.81	3391.27	3390.61	3389.96	3389.47	3389.28	3393.50	3398.00	3402.64
35.0	3151.56	3150.03	3148.25	3146.39	3144.65	3143.20	3142.23	3147.03	3152.29	3157.83
35.5	2918.05	2918.04	2917.82	2917.51	2917.21	2917.02	2917.04	2920.27	2923.70	2927.23
36.0	2703.54	2705.47	2707.26	2708.91	2710.45	2711.86	2713.15	2714.55	2715.83	2716.98
36.5	2517.15	2519.28	2521.29	2523.19	2524.95	2526.58	2528.05	2529.17	2530.12	2530.93
37.0	2349.76	2351.59	2353.32	2354.95	2356.49	2357.92	2359.24	2360.45	2361.55	2362.53

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37.5	2195.26	2196.84	2198.34	2199.74	2201.04	2202.26	2203.37	2204.39	2205.32	2206.13
38.0	2053.71	2055.04	2056.28	2057.44	2058.51	2059.50	2060.42	2061.32	2062.14	2062.88
38.5	1923.66	1924.85	1925.97	1927.03	1928.03	1928.99	1929.90	1931.04	1932.12	1933.15
39.0	1803.57	1804.69	1805.77	1806.81	1807.82	1808.81	1809.77	1811.07	1812.33	1813.54
39.5	1691.34	1692.57	1693.75	1694.88	1695.96	1696.98	1697.94	1698.83	1699.66	1700.40
40.0	1587.08	1588.40	1589.67	1590.89	1592.02	1593.07	1594.00	1594.42	1594.73	1594.95
40.5	1490.23	1491.39	1492.53	1493.64	1494.69	1495.67	1496.57	1496.88	1497.10	1497.25
41.0	1400.59	1401.63	1402.67	1403.70	1404.69	1405.64	1406.51	1406.78	1406.99	1407.14
41.5	1318.52	1319.87	1321.18	1322.45	1323.64	1324.73	1325.69	1325.81	1325.81	1325.70
42.0	1241.76	1243.33	1244.83	1246.25	1247.56	1248.72	1249.72	1249.76	1249.63	1249.36
42.5	1167.57	1168.70	1169.79	1170.82	1171.78	1172.65	1173.42	1173.64	1173.76	1173.79
43.0	1097.73	1098.34	1098.93	1099.49	1100.04	1100.56	1101.06	1101.51	1101.93	1102.33
43.5	1033.51	1033.93	1034.34	1034.74	1035.13	1035.52	1035.92	1036.42	1036.93	1037.43
44.0	973.78	974.14	974.48	974.81	975.15	975.49	975.83	976.33	976.83	977.33
44.5	917.97	918.30	918.63	918.94	919.25	919.57	919.88	920.32	920.76	921.20
45.0	865.71	866.05	866.38	866.70	867.01	867.31	867.61	867.98	868.35	868.70
45.5	816.39	816.71	817.02	817.32	817.61	817.90	818.19	818.52	818.85	819.17
46.0	770.21	770.50	770.78	771.05	771.32	771.58	771.85	772.16	772.47	772.77
46.5	727.31	727.54	727.78	728.00	728.22	728.44	728.67	728.96	729.25	729.54
47.0	687.31	687.49	687.66	687.83	687.99	688.16	688.34	688.61	688.90	689.18
47.5	649.85	649.96	650.07	650.18	650.29	650.41	650.54	650.80	651.08	651.37
48.0	615.01	615.07	615.12	615.18	615.24	615.32	615.41	615.66	615.93	616.22
48.5	582.81	582.85	582.89	582.93	582.98	583.04	583.11	583.34	583.57	583.82
49.0	553.04	553.08	553.12	553.15	553.19	553.24	553.30	553.49	553.69	553.90
49.5	525.49	525.51	525.53	525.55	525.57	525.60	525.65	525.82	526.01	526.20
50.0	500.22	500.21	500.21	500.20	500.21	500.22	500.25	500.41	500.58	500.77
50.5	477.25	477.22	477.20	477.17	477.16	477.16	477.17	477.30	477.45	477.61
51.0	456.41	456.36	456.31	456.27	456.23	456.21	456.20	456.31	456.43	456.57
51.5	437.59	437.52	437.44	437.37	437.31	437.27	437.24	437.32	437.42	437.53
52.0	420.58	420.48	420.38	420.29	420.20	420.13	420.08	420.13	420.20	420.30
52.5	405.18	405.06	404.93	404.81	404.69	404.60	404.52	404.54	404.58	404.65
53.0	391.23	391.08	390.94	390.79	390.66	390.54	390.44	390.44	390.46	390.50
53.5	378.54	378.39	378.24	378.10	377.96	377.85	377.75	377.73	377.74	377.78
54.0	366.97	366.83	366.68	366.55	366.42	366.31	366.22	366.20	366.20	366.22
54.5	356.36	356.24	356.12	356.00	355.89	355.80	355.72	355.66	355.62	355.61
55.0	346.52	346.41	346.30	346.20	346.11	346.02	345.95	345.86	345.80	345.75
55.5	337.18	337.05	336.94	336.83	336.72	336.63	336.56	336.48	336.42	336.38
56.0	328.40	328.24	328.09	327.94	327.81	327.70	327.60	327.54	327.51	327.50
56.5	320.26	320.00	319.76	319.53	319.31	319.12	318.97	318.95	318.97	319.03
57.0	312.50	312.18	311.86	311.55	311.27	311.02	310.81	310.83	310.89	311.00
57.5	304.89	304.59	304.29	304.01	303.75	303.53	303.34	303.34	303.38	303.47
58.0	297.58	297.33	297.08	296.85	296.64	296.46	296.31	296.28	296.29	296.33
58.5	290.72	290.49	290.26	290.05	289.85	289.69	289.55	289.52	289.53	289.57
59.0	284.18	283.95	283.73	283.53	283.34	283.19	283.06	283.04	283.05	283.09
59.5	277.87	277.64	277.43	277.23	277.06	276.90	276.78	276.74	276.74	276.78
60.0	271.75	271.53	271.33	271.14	270.96	270.81	270.69	270.64	270.63	270.65
60.5	265.79	265.58	265.39	265.20	265.04	264.90	264.78	264.73	264.72	264.73
61.0	259.91	259.72	259.54	259.37	259.22	259.09	258.98	258.93	258.92	258.93
61.5	254.06	253.88	253.71	253.56	253.42	253.30	253.21	253.16	253.14	253.15
62.0	248.24	248.07	247.92	247.77	247.64	247.53	247.45	247.40	247.38	247.39
62.5	242.50	242.33	242.16	242.00	241.86	241.74	241.65	241.60	241.58	241.58
63.0	236.76	236.58	236.41	236.25	236.10	235.98	235.87	235.82	235.80	235.80
63.5	230.94	230.78	230.63	230.50	230.38	230.28	230.19	230.14	230.11	230.11
64.0	225.08	224.96	224.84	224.74	224.65	224.57	224.51	224.47	224.44	224.43
64.5	219.22	219.11	219.01	218.92	218.84	218.78	218.74	218.71	218.71	218.72
65.0	213.36	213.26	213.17	213.09	213.03	212.99	212.96	212.96	212.98	213.02

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65.5	207.50	207.42	207.36	207.31	207.27	207.25	207.25	207.26	207.30	207.35
66.0	201.68	201.63	201.59	201.56	201.55	201.55	201.57	201.60	201.64	201.70
66.5	195.94	195.90	195.87	195.86	195.86	195.88	195.91	195.95	196.00	196.07
67.0	190.25	190.22	190.20	190.20	190.22	190.24	190.29	190.33	190.40	190.48
67.5	184.55	184.54	184.55	184.57	184.61	184.66	184.72	184.78	184.86	184.94
68.0	178.92	178.93	178.96	179.00	179.06	179.13	179.22	179.29	179.37	179.47
68.5	173.45	173.47	173.50	173.55	173.61	173.68	173.77	173.85	173.95	174.05
69.0	168.06	168.08	168.11	168.16	168.22	168.29	168.37	168.46	168.57	168.69
69.5	162.67	162.69	162.73	162.77	162.83	162.90	162.99	163.09	163.21	163.34
70.0	157.36	157.38	157.41	157.45	157.51	157.59	157.67	157.78	157.91	158.05
70.5	152.18	152.20	152.22	152.26	152.31	152.37	152.45	152.56	152.69	152.83
71.0	147.11	147.12	147.14	147.17	147.21	147.27	147.34	147.45	147.58	147.71
71.5	142.13	142.15	142.18	142.22	142.26	142.32	142.39	142.50	142.61	142.73
72.0	137.24	137.27	137.31	137.35	137.40	137.47	137.54	137.63	137.73	137.83
72.5	132.46	132.49	132.52	132.56	132.61	132.66	132.72	132.79	132.88	132.97
73.0	127.72	127.74	127.76	127.79	127.83	127.87	127.91	127.98	128.04	128.12
73.5	122.94	122.95	122.97	122.99	123.01	123.04	123.08	123.13	123.20	123.26
74.0	118.16	118.16	118.16	118.17	118.18	118.20	118.22	118.27	118.33	118.40
74.5	113.44	113.42	113.40	113.38	113.36	113.35	113.35	113.39	113.45	113.51
75.0	108.71	108.66	108.61	108.57	108.52	108.48	108.46	108.49	108.54	108.59
75.5	103.86	103.80	103.74	103.68	103.63	103.58	103.53	103.56	103.60	103.65
76.0	98.96	98.90	98.83	98.76	98.70	98.64	98.59	98.61	98.65	98.69
76.5	94.03	93.96	93.88	93.80	93.73	93.66	93.60	93.62	93.66	93.70
77.0	89.11	89.02	88.94	88.86	88.77	88.70	88.64	88.65	88.69	88.73
77.5	84.25	84.15	84.06	83.97	83.87	83.79	83.72	83.74	83.77	83.81
78.0	79.45	79.35	79.25	79.15	79.06	78.97	78.89	78.91	78.94	78.99
78.5	74.72	74.64	74.55	74.46	74.38	74.30	74.23	74.26	74.29	74.34
79.0	70.07	69.99	69.92	69.85	69.78	69.72	69.66	69.69	69.74	69.79
79.5	65.49	65.43	65.36	65.29	65.23	65.18	65.14	65.18	65.24	65.31
80.0	60.95	60.89	60.83	60.77	60.72	60.68	60.65	60.71	60.78	60.86
80.5	56.40	56.35	56.30	56.26	56.23	56.20	56.19	56.25	56.33	56.42
81.0	51.78	51.75	51.72	51.69	51.67	51.66	51.66	51.73	51.81	51.90
81.5	47.07	47.05	47.03	47.02	47.01	47.01	47.02	47.09	47.16	47.23
82.0	42.15	42.14	42.13	42.12	42.12	42.13	42.15	42.21	42.27	42.33
82.5	36.79	36.77	36.76	36.76	36.76	36.77	36.78	36.84	36.90	36.96
83.0	31.35	31.32	31.30	31.29	31.29	31.30	31.31	31.36	31.42	31.48
83.5	26.01	25.98	25.97	25.96	25.95	25.95	25.96	26.00	26.04	26.09
84.0	21.00	20.98	20.97	20.96	20.95	20.95	20.96	20.98	21.02	21.06
84.5	16.72	16.70	16.69	16.68	16.68	16.68	16.69	16.73	16.77	16.82
85.0	12.87	12.86	12.85	12.84	12.84	12.85	12.87	12.91	12.95	13.01
85.5	9.19	9.17	9.16	9.15	9.14	9.14	9.15	9.18	9.22	9.26
86.0	6.04	6.02	6.00	5.98	5.97	5.96	5.96	5.98	6.00	6.03
86.5	3.71	3.69	3.67	3.65	3.63	3.62	3.61	3.62	3.63	3.64
87.0	2.15	2.13	2.11	2.09	2.07	2.06	2.04	2.04	2.05	2.05
87.5	1.53	1.53	1.52	1.51	1.50	1.49	1.48	1.48	1.48	1.48
88.0	1.39	1.39	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
88.5	1.30	1.30	1.30	1.31	1.31	1.31	1.31	1.31	1.31	1.31
89.0	1.30	1.30	1.30	1.30	1.30	1.30	1.31	1.30	1.30	1.30
89.5	1.29	1.29	1.29	1.29	1.30	1.30	1.30	1.29	1.29	1.29
90.0	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31

Vert. Angles **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27279.11	27279.13	27279.13	27279.12	27279.09	27279.05	27278.92	27278.77	27278.61	27278.45

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CANDELA TABULATION - (Cont.)

1.0	27277.29	27277.26	27277.22	27277.16	27277.07	27276.97	27276.73	27276.47	27276.21	27275.95
1.5	27274.57	27274.46	27274.33	27274.19	27274.03	27273.86	27273.54	27273.21	27272.89	27272.57
2.0	27270.87	27270.59	27270.31	27270.02	27269.72	27269.43	27269.07	27268.72	27268.39	27268.08
2.5	27266.26	27265.65	27265.04	27264.45	27263.88	27263.36	27263.02	27262.72	27262.48	27262.29
3.0	27260.30	27259.34	27258.41	27257.51	27256.68	27255.92	27255.59	27255.35	27255.20	27255.13
3.5	27252.56	27251.43	27250.34	27249.30	27248.34	27247.47	27247.10	27246.83	27246.67	27246.60
4.0	27242.99	27241.76	27240.58	27239.46	27238.42	27237.48	27237.03	27236.69	27236.45	27236.32
4.5	27231.51	27230.22	27228.98	27227.80	27226.70	27225.69	27225.13	27224.67	27224.33	27224.09
5.0	27217.82	27216.47	27215.16	27213.90	27212.71	27211.62	27210.91	27210.30	27209.80	27209.43
5.5	27201.85	27200.35	27198.89	27197.49	27196.15	27194.92	27194.03	27193.25	27192.59	27192.05
6.0	27182.91	27181.20	27179.52	27177.89	27176.34	27174.88	27173.78	27172.79	27171.92	27171.18
6.5	27160.84	27158.79	27156.74	27154.74	27152.80	27150.96	27149.56	27148.27	27147.12	27146.11
7.0	27134.05	27131.66	27129.26	27126.89	27124.59	27122.38	27120.66	27119.08	27117.63	27116.33
7.5	27100.88	27098.34	27095.80	27093.28	27090.82	27088.44	27086.50	27084.68	27082.99	27081.45
8.0	27061.29	27058.65	27056.00	27053.37	27050.79	27048.29	27046.15	27044.13	27042.23	27040.47
8.5	27015.38	27012.54	27009.69	27006.86	27004.07	27001.36	26999.04	26996.84	26994.75	26992.80
9.0	26961.13	26958.09	26955.04	26952.00	26949.01	26946.10	26943.64	26941.28	26939.05	26936.94
9.5	26896.64	26893.48	26890.30	26887.14	26884.03	26881.00	26878.45	26876.02	26873.69	26871.49
10.0	26821.63	26818.34	26815.05	26811.77	26808.54	26805.39	26802.77	26800.25	26797.84	26795.55
10.5	26736.05	26732.56	26729.05	26725.56	26722.13	26718.78	26716.01	26713.35	26710.80	26708.38
11.0	26637.30	26633.64	26629.97	26626.30	26622.70	26619.16	26616.22	26613.39	26610.68	26608.07
11.5	26523.41	26519.75	26516.05	26512.36	26508.68	26505.06	26501.91	26498.85	26495.89	26493.02
12.0	26392.45	26388.89	26385.28	26381.64	26378.01	26374.40	26371.12	26367.90	26364.75	26361.69
12.5	26242.25	26238.87	26235.43	26231.97	26228.50	26225.06	26221.87	26218.73	26215.65	26212.63
13.0	26071.65	26068.50	26065.31	26062.10	26058.89	26055.68	26052.71	26049.76	26046.86	26044.00
13.5	25879.88	25877.09	25874.25	25871.37	25868.48	25865.57	25862.83	25860.09	25857.37	25854.66
14.0	25663.50	25661.00	25658.46	25655.88	25653.27	25650.65	25648.26	25645.86	25643.46	25641.05
14.5	25418.33	25415.81	25413.28	25410.74	25408.23	25405.78	25403.98	25402.24	25400.53	25398.82
15.0	25145.85	25143.27	25140.71	25138.20	25135.77	25133.46	25132.27	25131.20	25130.19	25129.21
15.5	24847.29	24844.91	24842.55	24840.27	24838.09	24836.05	24835.32	24834.71	24834.18	24833.67
16.0	24519.18	24516.97	24514.80	24512.70	24510.71	24508.87	24508.33	24507.92	24507.57	24507.24
16.5	24158.05	24155.81	24153.61	24151.47	24149.43	24147.51	24146.61	24145.81	24145.08	24144.37
17.0	23765.09	23762.65	23760.25	23757.89	23755.63	23753.45	23752.07	23750.77	23749.54	23748.35
17.5	23341.25	23338.38	23335.54	23332.76	23330.07	23327.51	23325.95	23324.50	23323.14	23321.82
18.0	22883.89	22880.43	22877.00	22873.65	22870.41	22867.34	22865.61	22864.03	22862.57	22861.19
18.5	22389.27	22385.13	22381.05	22377.07	22373.25	22369.64	22367.57	22365.70	22363.99	22362.39
19.0	21861.65	21856.66	21851.76	21847.00	21842.43	21838.12	21835.60	21833.33	21831.27	21829.36
19.5	21304.14	21297.86	21291.67	21285.64	21279.87	21274.43	21271.36	21268.64	21266.21	21264.00
20.0	20716.52	20709.16	20701.88	20694.76	20687.92	20681.44	20677.64	20674.23	20671.16	20668.37
20.5	20098.38	20090.98	20083.59	20076.30	20069.20	20062.35	20057.40	20052.75	20048.37	20044.21
21.0	19453.25	19446.15	19439.01	19431.87	19424.79	19417.81	19411.73	19405.80	19400.02	19394.39
21.5	18783.43	18776.59	18769.65	18762.64	18755.61	18748.57	18741.70	18734.88	18728.12	18721.45
22.0	18092.12	18085.47	18078.68	18071.77	18064.75	18057.64	18050.27	18042.87	18035.45	18028.07
22.5	17381.99	17375.11	17368.02	17360.78	17353.40	17345.92	17338.54	17331.10	17323.65	17316.21
23.0	16656.88	16650.04	16642.95	16635.63	16628.13	16620.51	16613.14	16605.69	16598.19	16590.66
23.5	15919.49	15914.02	15908.19	15902.01	15895.49	15888.63	15880.76	15872.61	15864.23	15855.68
24.0	15175.80	15171.75	15167.25	15162.28	15156.78	15150.74	15142.39	15133.55	15124.31	15114.78
24.5	14432.44	14428.60	14424.22	14419.28	14413.75	14407.62	14399.21	14390.27	14380.90	14371.20
25.0	13690.10	13686.41	13682.11	13677.18	13671.63	13665.45	13657.29	13648.58	13639.44	13629.95
25.5	12950.05	12947.40	12944.09	12940.12	12935.46	12930.11	12922.64	12914.56	12905.95	12896.89
26.0	12217.17	12215.81	12213.77	12211.03	12207.55	12203.29	12196.63	12189.25	12181.23	12172.68
26.5	11495.51	11495.39	11494.60	11493.06	11490.72	11487.52	11481.35	11474.36	11466.65	11458.32
27.0	10788.75	10789.78	10790.12	10789.70	10788.43	10786.24	10780.55	10773.96	10766.58	10758.53
27.5	10101.50	10103.40	10104.63	10105.11	10104.73	10103.42	10098.37	10092.41	10085.63	10078.15
28.0	9435.06	9437.52	9439.34	9440.43	9440.69	9440.03	9435.72	9430.49	9424.45	9417.70
28.5	8791.21	8793.74	8795.67	8796.90	8797.36	8796.97	8793.50	8789.18	8784.09	8778.31

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CANDELA TABULATION - (Cont.)

29.0	8173.17	8175.54	8177.32	8178.46	8178.88	8178.54	8175.77	8172.24	8167.99	8163.08
29.5	7585.34	7587.40	7588.88	7589.74	7589.94	7589.43	7586.93	7583.72	7579.83	7575.32
30.0	7026.04	7027.90	7029.21	7029.91	7029.98	7029.35	7026.88	7023.72	7019.92	7015.52
30.5	6493.84	6496.19	6497.98	6499.15	6499.65	6499.41	6496.77	6493.39	6489.34	6484.68
31.0	5992.35	5995.15	5997.40	5999.01	5999.92	6000.05	5997.25	5993.67	5989.39	5984.48
31.5	5524.19	5526.89	5529.06	5530.62	5531.49	5531.60	5528.73	5525.11	5520.81	5515.91
32.0	5090.89	5092.93	5094.48	5095.48	5095.88	5095.63	5093.14	5090.00	5086.27	5082.01
32.5	4698.30	4698.24	4697.79	4696.98	4695.85	4694.42	4693.70	4692.68	4691.34	4689.64
33.0	4336.09	4334.52	4332.64	4330.56	4328.37	4326.18	4326.87	4327.54	4328.10	4328.43
33.5	3991.85	3991.81	3991.46	3990.85	3990.00	3988.96	3988.68	3988.20	3987.49	3986.50
34.0	3677.69	3680.01	3682.02	3683.64	3684.80	3685.44	3683.60	3681.24	3678.44	3675.26
34.5	3407.25	3411.69	3415.79	3419.41	3422.38	3424.55	3421.56	3417.76	3413.34	3408.44
35.0	3163.44	3168.92	3174.08	3178.72	3182.64	3185.64	3182.19	3177.83	3172.75	3167.16
35.5	2930.74	2934.12	2937.27	2940.06	2942.38	2944.13	2942.15	2939.59	2936.58	2933.22
36.0	2717.99	2718.86	2719.58	2720.13	2720.51	2720.71	2720.38	2719.87	2719.21	2718.40
36.5	2531.58	2532.10	2532.47	2532.71	2532.82	2532.81	2532.64	2532.35	2531.96	2531.47
37.0	2363.38	2364.09	2364.67	2365.11	2365.39	2365.53	2365.15	2364.63	2364.00	2363.29
37.5	2206.85	2207.45	2207.95	2208.33	2208.60	2208.76	2208.51	2208.16	2207.74	2207.25
38.0	2063.54	2064.11	2064.60	2065.00	2065.30	2065.52	2065.37	2065.14	2064.85	2064.52
38.5	1934.09	1934.95	1935.71	1936.36	1936.88	1937.26	1936.92	1936.47	1935.91	1935.30
39.0	1814.68	1815.72	1816.66	1817.45	1818.10	1818.57	1818.09	1817.45	1816.69	1815.86
39.5	1701.07	1701.66	1702.16	1702.58	1702.89	1703.11	1702.80	1702.40	1701.97	1701.51
40.0	1595.10	1595.17	1595.20	1595.20	1595.18	1595.15	1595.16	1595.18	1595.25	1595.36
40.5	1497.35	1497.43	1497.49	1497.57	1497.67	1497.81	1498.38	1499.01	1499.69	1500.41
41.0	1407.27	1407.39	1407.52	1407.68	1407.89	1408.17	1409.11	1410.12	1411.17	1412.25
41.5	1325.52	1325.30	1325.05	1324.81	1324.59	1324.43	1324.87	1325.38	1325.95	1326.56
42.0	1248.97	1248.50	1247.97	1247.41	1246.85	1246.31	1246.16	1246.07	1246.04	1246.08
42.5	1173.75	1173.64	1173.49	1173.31	1173.12	1172.92	1172.83	1172.76	1172.72	1172.73
43.0	1102.70	1103.05	1103.38	1103.69	1103.97	1104.24	1104.33	1104.41	1104.50	1104.60
43.5	1037.92	1038.40	1038.86	1039.30	1039.71	1040.09	1040.19	1040.27	1040.33	1040.41
44.0	977.83	978.31	978.78	979.23	979.64	980.02	980.09	980.13	980.16	980.20
44.5	921.63	922.06	922.46	922.85	923.21	923.54	923.58	923.60	923.62	923.64
45.0	869.05	869.39	869.71	870.01	870.29	870.55	870.57	870.58	870.58	870.60
45.5	819.49	819.79	820.07	820.34	820.59	820.82	820.83	820.83	820.84	820.85
46.0	773.06	773.35	773.62	773.87	774.11	774.32	774.33	774.33	774.33	774.34
46.5	729.82	730.10	730.36	730.61	730.84	731.05	731.06	731.05	731.04	731.04
47.0	689.46	689.74	690.00	690.26	690.49	690.71	690.71	690.70	690.68	690.67
47.5	651.66	651.94	652.22	652.49	652.74	652.97	652.97	652.96	652.94	652.92
48.0	616.50	616.79	617.08	617.35	617.61	617.85	617.85	617.84	617.82	617.81
48.5	584.07	584.33	584.58	584.83	585.06	585.27	585.28	585.27	585.25	585.25
49.0	554.12	554.34	554.56	554.77	554.97	555.16	555.17	555.17	555.18	555.19
49.5	526.41	526.62	526.83	527.04	527.24	527.43	527.47	527.50	527.54	527.58
50.0	500.96	501.17	501.37	501.58	501.79	502.00	502.07	502.14	502.21	502.30
50.5	477.79	477.98	478.17	478.37	478.57	478.78	478.88	478.99	479.10	479.23
51.0	456.72	456.89	457.07	457.26	457.45	457.65	457.79	457.93	458.08	458.25
51.5	437.67	437.82	437.99	438.16	438.35	438.55	438.71	438.88	439.06	439.26
52.0	420.42	420.55	420.70	420.87	421.06	421.26	421.44	421.64	421.86	422.09
52.5	404.74	404.86	404.99	405.15	405.33	405.54	405.77	406.03	406.30	406.59
53.0	390.57	390.67	390.79	390.94	391.12	391.33	391.61	391.92	392.25	392.60
53.5	377.84	377.94	378.06	378.21	378.39	378.61	378.92	379.27	379.64	380.02
54.0	366.28	366.36	366.48	366.62	366.80	367.02	367.36	367.74	368.14	368.55
54.5	355.63	355.67	355.75	355.85	356.00	356.18	356.55	356.96	357.39	357.83
55.0	345.73	345.74	345.79	345.86	345.98	346.15	346.53	346.96	347.41	347.89
55.5	336.37	336.38	336.44	336.53	336.66	336.83	337.24	337.68	338.16	338.65
56.0	327.52	327.57	327.66	327.79	327.95	328.16	328.58	329.03	329.50	329.99
56.5	319.12	319.25	319.41	319.61	319.84	320.11	320.50	320.92	321.35	321.79

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57.0	311.15	311.34	311.57	311.83	312.11	312.42	312.79	313.17	313.57	313.96
57.5	303.59	303.75	303.95	304.18	304.44	304.73	305.11	305.50	305.91	306.32
58.0	296.42	296.53	296.69	296.87	297.09	297.34	297.73	298.15	298.58	299.01
58.5	289.65	289.76	289.91	290.08	290.29	290.53	290.92	291.32	291.74	292.17
59.0	283.17	283.28	283.42	283.60	283.80	284.04	284.41	284.80	285.21	285.63
59.5	276.84	276.94	277.07	277.23	277.43	277.65	278.03	278.42	278.84	279.26
60.0	270.70	270.79	270.90	271.06	271.24	271.46	271.84	272.24	272.66	273.09
60.5	264.78	264.86	264.97	265.11	265.29	265.51	265.89	266.30	266.73	267.16
61.0	258.97	259.04	259.15	259.29	259.47	259.68	260.06	260.48	260.91	261.35
61.5	253.19	253.26	253.36	253.49	253.66	253.87	254.25	254.66	255.09	255.53
62.0	247.42	247.49	247.58	247.71	247.88	248.08	248.45	248.86	249.28	249.72
62.5	241.62	241.68	241.77	241.90	242.06	242.26	242.63	243.02	243.43	243.85
63.0	235.83	235.89	235.98	236.11	236.27	236.46	236.81	237.19	237.59	238.00
63.5	230.13	230.18	230.26	230.37	230.51	230.69	231.04	231.42	231.81	232.22
64.0	224.45	224.50	224.57	224.67	224.81	224.98	225.32	225.70	226.09	226.50
64.5	218.76	218.83	218.92	219.04	219.19	219.37	219.72	220.09	220.48	220.87
65.0	213.08	213.17	213.29	213.43	213.60	213.80	214.14	214.51	214.90	215.29
65.5	207.42	207.52	207.65	207.80	207.97	208.18	208.53	208.90	209.29	209.69
66.0	201.79	201.89	202.02	202.17	202.36	202.56	202.92	203.30	203.69	204.08
66.5	196.16	196.27	196.41	196.57	196.75	196.96	197.31	197.68	198.07	198.46
67.0	190.58	190.69	190.83	191.00	191.18	191.39	191.74	192.10	192.47	192.85
67.5	185.05	185.17	185.32	185.48	185.67	185.87	186.21	186.56	186.92	187.29
68.0	179.58	179.71	179.86	180.02	180.21	180.41	180.73	181.07	181.41	181.76
68.5	174.18	174.31	174.47	174.63	174.82	175.02	175.32	175.64	175.96	176.28
69.0	168.82	168.96	169.12	169.30	169.48	169.69	169.96	170.25	170.54	170.83
69.5	163.48	163.64	163.80	163.98	164.17	164.37	164.61	164.87	165.12	165.39
70.0	158.20	158.36	158.53	158.71	158.90	159.09	159.31	159.54	159.76	159.99
70.5	152.99	153.15	153.32	153.50	153.69	153.88	154.08	154.29	154.50	154.70
71.0	147.86	148.02	148.19	148.36	148.54	148.72	148.91	149.10	149.29	149.48
71.5	142.87	143.01	143.16	143.31	143.47	143.63	143.80	143.96	144.13	144.30
72.0	137.95	138.07	138.19	138.32	138.45	138.59	138.73	138.88	139.03	139.17
72.5	133.06	133.16	133.27	133.38	133.49	133.61	133.73	133.85	133.98	134.10
73.0	128.20	128.28	128.37	128.47	128.56	128.66	128.76	128.87	128.97	129.08
73.5	123.34	123.41	123.49	123.58	123.66	123.75	123.84	123.93	124.02	124.11
74.0	118.46	118.54	118.61	118.69	118.77	118.85	118.92	119.00	119.07	119.14
74.5	113.57	113.64	113.71	113.78	113.86	113.93	113.99	114.04	114.09	114.14
75.0	108.65	108.72	108.79	108.86	108.93	109.00	109.03	109.07	109.10	109.13
75.5	103.71	103.77	103.83	103.89	103.96	104.02	104.05	104.07	104.09	104.11
76.0	98.74	98.80	98.85	98.91	98.97	99.03	99.05	99.07	99.08	99.09
76.5	93.75	93.80	93.86	93.92	93.98	94.03	94.05	94.07	94.08	94.09
77.0	88.77	88.83	88.89	88.95	89.01	89.07	89.09	89.11	89.12	89.14
77.5	83.86	83.92	83.98	84.05	84.11	84.18	84.20	84.22	84.25	84.27
78.0	79.04	79.10	79.17	79.24	79.31	79.38	79.41	79.43	79.46	79.48
78.5	74.39	74.45	74.52	74.59	74.66	74.72	74.74	74.76	74.78	74.80
79.0	69.84	69.91	69.97	70.04	70.11	70.17	70.19	70.19	70.20	70.21
79.5	65.38	65.46	65.53	65.61	65.68	65.75	65.74	65.73	65.71	65.69
80.0	60.94	61.03	61.12	61.21	61.29	61.36	61.33	61.30	61.26	61.22
80.5	56.51	56.60	56.70	56.78	56.87	56.94	56.92	56.89	56.86	56.82
81.0	51.99	52.08	52.17	52.26	52.34	52.41	52.40	52.38	52.35	52.33
81.5	47.31	47.39	47.47	47.55	47.62	47.69	47.68	47.66	47.64	47.62
82.0	42.40	42.47	42.54	42.61	42.67	42.73	42.71	42.70	42.68	42.66
82.5	37.03	37.10	37.17	37.23	37.29	37.35	37.34	37.32	37.30	37.28
83.0	31.55	31.62	31.68	31.75	31.81	31.87	31.86	31.85	31.84	31.83
83.5	26.15	26.21	26.27	26.33	26.39	26.45	26.47	26.49	26.51	26.54
84.0	21.10	21.15	21.20	21.26	21.32	21.39	21.44	21.49	21.54	21.60
84.5	16.87	16.93	16.99	17.05	17.12	17.19	17.24	17.30	17.36	17.42

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CANDELA TABULATION - (Cont.)

85.0	13.07	13.13	13.20	13.27	13.34	13.41	13.46	13.51	13.56	13.61
85.5	9.31	9.36	9.42	9.47	9.53	9.59	9.63	9.67	9.71	9.75
86.0	6.06	6.09	6.13	6.17	6.21	6.25	6.27	6.29	6.31	6.34
86.5	3.66	3.68	3.70	3.72	3.73	3.75	3.75	3.74	3.73	3.72
87.0	2.06	2.06	2.06	2.07	2.07	2.06	2.04	2.01	1.98	1.95
87.5	1.48	1.48	1.48	1.48	1.47	1.47	1.45	1.44	1.42	1.40
88.0	1.39	1.39	1.39	1.39	1.39	1.38	1.38	1.38	1.38	1.38
88.5	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29	1.30	1.30
89.0	1.30	1.29	1.29	1.29	1.29	1.28	1.28	1.28	1.29	1.29
89.5	1.29	1.28	1.28	1.28	1.28	1.27	1.27	1.27	1.27	1.28
90.0	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29	1.29	1.29

**Vert.
Angles**

Horizontal Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	27280.00	27280.00	27280.00	27280.00	27280.00
0.5	27278.29	27278.14	27278.00	27277.88	27277.77
1.0	27275.69	27275.44	27275.22	27275.02	27274.86
1.5	27272.26	27271.97	27271.71	27271.50	27271.33
2.0	27267.79	27267.53	27267.32	27267.15	27267.03
2.5	27262.15	27262.06	27262.03	27262.05	27262.13
3.0	27255.13	27255.21	27255.36	27255.56	27255.82
3.5	27246.61	27246.71	27246.87	27247.10	27247.39
4.0	27236.28	27236.32	27236.45	27236.63	27236.88
4.5	27223.95	27223.91	27223.96	27224.11	27224.33
5.0	27209.16	27209.00	27208.95	27209.01	27209.18
5.5	27191.63	27191.33	27191.16	27191.10	27191.18
6.0	27170.57	27170.09	27169.75	27169.54	27169.47
6.5	27145.24	27144.51	27143.93	27143.50	27143.23
7.0	27115.18	27114.19	27113.36	27112.69	27112.19
7.5	27080.05	27078.82	27077.75	27076.85	27076.13
8.0	27038.86	27037.40	27036.10	27034.98	27034.04
8.5	26990.99	26989.32	26987.80	26986.44	26985.25
9.0	26934.96	26933.11	26931.40	26929.83	26928.41
9.5	26869.41	26867.45	26865.62	26863.91	26862.33
10.0	26793.38	26791.31	26789.37	26787.54	26785.82
10.5	26706.06	26703.86	26701.77	26699.79	26697.92
11.0	26605.59	26603.21	26600.93	26598.77	26596.72
11.5	26490.25	26487.59	26485.03	26482.58	26480.24
12.0	26358.70	26355.81	26353.01	26350.32	26347.75
12.5	26209.67	26206.80	26204.00	26201.29	26198.68
13.0	26041.19	26038.43	26035.73	26033.09	26030.51
13.5	25851.96	25849.29	25846.63	25843.99	25841.38
14.0	25638.63	25636.19	25633.73	25631.24	25628.72
14.5	25397.10	25395.34	25393.53	25391.64	25389.64
15.0	25128.22	25127.18	25126.05	25124.80	25123.37
15.5	24833.13	24832.52	24831.78	24830.86	24829.72
16.0	24506.88	24506.42	24505.82	24505.03	24503.98
16.5	24143.64	24142.85	24141.96	24140.92	24139.71
17.0	23747.16	23745.94	23744.67	23743.32	23741.86
17.5	23320.53	23319.21	23317.85	23316.39	23314.82
18.0	22859.84	22858.47	22857.04	22855.52	22853.85
18.5	22360.85	22359.32	22357.75	22356.10	22354.31
19.0	21827.56	21825.80	21824.03	21822.20	21820.27
19.5	21261.96	21260.01	21258.09	21256.15	21254.11
20.0	20665.78	20663.33	20660.96	20658.59	20656.17

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CANDELA TABULATION - (Cont.)

20.5	20040.24	20036.43	20032.72	20029.10	20025.51
21.0	19388.91	19383.57	19378.38	19373.32	19368.39
21.5	18714.88	18708.43	18702.14	18696.00	18690.05
22.0	18020.75	18013.52	18006.41	17999.47	17992.72
22.5	17308.79	17301.42	17294.13	17286.93	17279.84
23.0	16583.10	16575.54	16568.00	16560.49	16553.04
23.5	15847.02	15838.30	15829.57	15820.90	15812.33
24.0	15105.04	15095.19	15085.32	15075.54	15065.93
24.5	14361.28	14351.23	14341.15	14331.16	14321.34
25.0	13620.21	13610.31	13600.36	13590.44	13580.66
25.5	12887.50	12877.84	12868.02	12858.12	12848.24
26.0	12163.67	12154.29	12144.64	12134.80	12124.86
26.5	11449.48	11440.20	11430.61	11420.78	11410.83
27.0	10749.91	10740.82	10731.39	10721.72	10711.91
27.5	10070.07	10061.51	10052.57	10043.38	10034.03
28.0	9410.35	9402.50	9394.25	9385.71	9376.97
28.5	8771.92	8765.01	8757.66	8749.93	8741.93
29.0	8157.56	8151.51	8144.97	8138.01	8130.67
29.5	7570.23	7564.61	7558.50	7551.95	7545.00
30.0	7010.56	7005.09	6999.15	6992.78	6986.03
30.5	6479.47	6473.77	6467.65	6461.15	6454.35
31.0	5979.04	5973.13	5966.84	5960.25	5953.43
31.5	5510.49	5504.65	5498.46	5492.00	5485.35
32.0	5077.28	5072.14	5066.65	5060.87	5054.86
32.5	4687.53	4684.99	4681.98	4678.46	4674.39
33.0	4328.43	4327.98	4326.99	4325.34	4322.93
33.5	3985.21	3983.59	3981.58	3979.16	3976.30
34.0	3671.79	3668.10	3664.26	3660.34	3656.42
34.5	3403.22	3397.85	3392.49	3387.29	3382.42
35.0	3161.25	3155.24	3149.31	3143.67	3138.52
35.5	2929.64	2925.94	2922.26	2918.69	2915.37
36.0	2717.46	2716.41	2715.27	2714.04	2712.75
36.5	2530.89	2530.23	2529.50	2528.70	2527.84
37.0	2362.50	2361.67	2360.81	2359.96	2359.12
37.5	2206.72	2206.17	2205.62	2205.08	2204.58
38.0	2064.16	2063.80	2063.45	2063.14	2062.86
38.5	1934.64	1933.98	1933.33	1932.74	1932.22
39.0	1814.98	1814.09	1813.24	1812.46	1811.78
39.5	1701.07	1700.67	1700.35	1700.12	1700.02
40.0	1595.54	1595.79	1596.13	1596.58	1597.14
40.5	1501.16	1501.94	1502.73	1503.53	1504.34
41.0	1413.32	1414.37	1415.37	1416.30	1417.14
41.5	1327.20	1327.87	1328.55	1329.22	1329.87
42.0	1246.18	1246.36	1246.62	1246.96	1247.39
42.5	1172.79	1172.91	1173.11	1173.39	1173.75
43.0	1104.73	1104.89	1105.11	1105.39	1105.74
43.5	1040.50	1040.62	1040.79	1041.03	1041.33
44.0	980.25	980.33	980.46	980.66	980.93
44.5	923.68	923.76	923.88	924.07	924.33
45.0	870.64	870.72	870.84	871.03	871.29
45.5	820.88	820.95	821.07	821.24	821.49
46.0	774.37	774.43	774.53	774.69	774.91
46.5	731.06	731.11	731.21	731.35	731.56
47.0	690.68	690.72	690.81	690.94	691.13
47.5	652.93	652.96	653.03	653.15	653.33
48.0	617.81	617.84	617.90	618.01	618.18

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CANDELA TABULATION - (Cont.)

48.5	585.26	585.29	585.36	585.48	585.65
49.0	555.21	555.27	555.35	555.48	555.66
49.5	527.64	527.73	527.84	527.99	528.19
50.0	502.40	502.52	502.67	502.86	503.08
50.5	479.37	479.53	479.71	479.93	480.17
51.0	458.43	458.62	458.84	459.09	459.36
51.5	439.47	439.70	439.95	440.22	440.51
52.0	422.34	422.60	422.88	423.18	423.50
52.5	406.89	407.21	407.54	407.89	408.24
53.0	392.96	393.33	393.71	394.10	394.49
53.5	380.42	380.83	381.24	381.64	382.04
54.0	368.98	369.41	369.84	370.26	370.67
54.5	358.29	358.75	359.21	359.65	360.08
55.0	348.37	348.85	349.33	349.79	350.22
55.5	339.14	339.64	340.12	340.58	341.01
56.0	330.48	330.97	331.44	331.88	332.29
56.5	322.23	322.67	323.08	323.48	323.84
57.0	314.36	314.74	315.11	315.46	315.78
57.5	306.73	307.13	307.51	307.87	308.20
58.0	299.45	299.87	300.27	300.65	300.99
58.5	292.59	293.01	293.40	293.76	294.09
59.0	286.04	286.44	286.82	287.17	287.49
59.5	279.67	280.08	280.47	280.83	281.16
60.0	273.52	273.94	274.34	274.72	275.06
60.5	267.60	268.03	268.44	268.82	269.17
61.0	261.79	262.22	262.64	263.03	263.38
61.5	255.97	256.40	256.82	257.21	257.56
62.0	250.15	250.58	250.99	251.38	251.73
62.5	244.28	244.69	245.10	245.47	245.82
63.0	238.42	238.83	239.22	239.59	239.93
63.5	232.63	233.04	233.43	233.80	234.13
64.0	226.91	227.31	227.70	228.07	228.40
64.5	221.27	221.67	222.05	222.40	222.73
65.0	215.68	216.07	216.43	216.78	217.10
65.5	210.08	210.47	210.84	211.19	211.51
66.0	204.48	204.87	205.24	205.60	205.92
66.5	198.85	199.23	199.60	199.94	200.26
67.0	193.23	193.60	193.95	194.29	194.60
67.5	187.65	188.01	188.36	188.68	188.98
68.0	182.11	182.46	182.79	183.10	183.39
68.5	176.61	176.93	177.24	177.53	177.80
69.0	171.13	171.42	171.70	171.97	172.22
69.5	165.64	165.90	166.15	166.39	166.62
70.0	160.22	160.44	160.66	160.87	161.07
70.5	154.91	155.11	155.31	155.50	155.68
71.0	149.67	149.86	150.03	150.21	150.37
71.5	144.47	144.63	144.79	144.94	145.08
72.0	139.31	139.45	139.59	139.72	139.85
72.5	134.23	134.35	134.47	134.58	134.69
73.0	129.19	129.29	129.39	129.50	129.60
73.5	124.19	124.28	124.37	124.46	124.54
74.0	119.21	119.28	119.35	119.42	119.49
74.5	114.19	114.25	114.30	114.35	114.40
75.0	109.16	109.20	109.23	109.26	109.30
75.5	104.13	104.15	104.17	104.20	104.23
76.0	99.11	99.12	99.14	99.16	99.19

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CANDELA TABULATION - (Cont.)

76.5	94.11	94.12	94.14	94.16	94.19
77.0	89.16	89.18	89.20	89.22	89.26
77.5	84.29	84.32	84.35	84.38	84.42
78.0	79.51	79.54	79.57	79.61	79.65
78.5	74.82	74.85	74.87	74.91	74.95
79.0	70.21	70.23	70.24	70.26	70.29
79.5	65.67	65.66	65.65	65.65	65.66
80.0	61.18	61.15	61.12	61.10	61.10
80.5	56.78	56.75	56.72	56.71	56.71
81.0	52.30	52.28	52.26	52.26	52.26
81.5	47.60	47.58	47.57	47.57	47.59
82.0	42.65	42.64	42.64	42.65	42.67
82.5	37.26	37.26	37.26	37.27	37.31
83.0	31.82	31.82	31.83	31.86	31.90
83.5	26.57	26.60	26.65	26.71	26.78
84.0	21.67	21.74	21.82	21.91	22.01
84.5	17.49	17.56	17.64	17.73	17.82
85.0	13.67	13.73	13.79	13.86	13.94
85.5	9.79	9.84	9.89	9.95	10.01
86.0	6.36	6.39	6.42	6.46	6.50
86.5	3.72	3.72	3.71	3.72	3.72
87.0	1.92	1.89	1.86	1.84	1.82
87.5	1.38	1.36	1.34	1.33	1.31
88.0	1.38	1.38	1.38	1.38	1.38
88.5	1.30	1.30	1.30	1.31	1.31
89.0	1.29	1.29	1.29	1.29	1.29
89.5	1.28	1.28	1.28	1.28	1.28
90.0	1.29	1.29	1.29	1.29	1.29

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	9488.91	49.60	49.60
0-30	15621.42	81.60	81.60
0-40	17763.11	92.80	92.80
0-60	18791.25	98.20	98.20
0-80	19119.41	99.90	99.90
0-90	19141.55	100.00	100.00
10-90	16554.37	86.50	86.50
20-40	8274.2	43.20	43.20
20-50	8981.55	46.90	46.90
40-70	1241.26	6.50	6.50
60-80	328.16	1.70	1.70
70-80	115.04	0.60	0.60
80-90	22.14	0.10	0.10
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	19141.55	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2587.19
10-20	6901.72
20-30	6132.51
30-40	2141.69
40-50	707.35
50-60	320.80
60-70	213.12
70-80	115.04
80-90	22.14
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

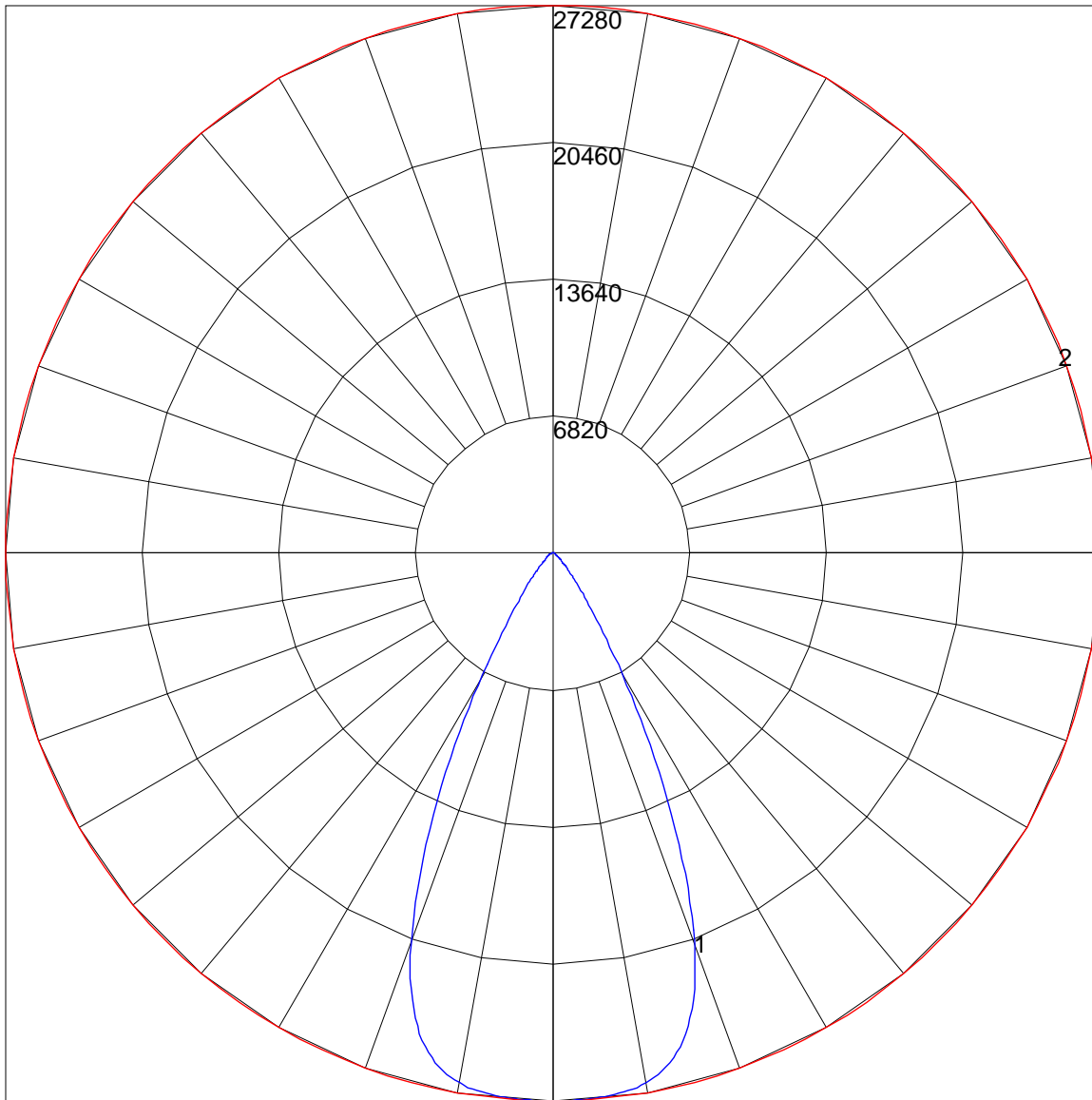
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69
7	86	77	72	68	85	77	72	68	76	71	67	74	70	67	73	70	67	65
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	66	61	58	65	60	57	64	60	57	56

POLAR GRAPH



Maximum Candela = 27280 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)