



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTMOWT30MWD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[TESTDATE] 2017-07-11

[ISSUEDATE] 2017-07-12 15:25:32

[NEARFIELD]

[LAMPPOSITION] 0,0

[MANUFAC] BEGHELLI

[LUMINAIRE] NUVHTMOWT30MWD120-277V

[LAMP] 3000K Ra80

CHARACTERISTICS

Lumens Per Lamp	17332 (1 lamp)
Total Lamp Lumens	17332
Luminaire Lumens	17332
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	149.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.92
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	0.84
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	40689	40865	40345
55	21975	22805	22462
65	12779	13407	13434
75	7992	8173	8394
85	2713	2637	2500

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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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19827.98	19827.96	19827.95	19827.93	19827.92	19827.91	19827.91	19827.91	19827.91	19827.91
1.0	19830.03	19829.99	19829.95	19829.91	19829.88	19829.85	19829.82	19829.80	19829.79	19829.79
1.5	19833.62	19833.55	19833.48	19833.41	19833.35	19833.29	19833.23	19833.18	19833.14	19833.10
2.0	19836.96	19836.86	19836.75	19836.64	19836.53	19836.43	19836.33	19836.24	19836.16	19836.09
2.5	19838.60	19838.42	19838.23	19838.04	19837.86	19837.68	19837.52	19837.37	19837.24	19837.14
3.0	19838.20	19837.95	19837.70	19837.45	19837.21	19836.98	19836.78	19836.60	19836.46	19836.36
3.5	19834.84	19834.57	19834.31	19834.06	19833.82	19833.61	19833.44	19833.31	19833.22	19833.20
4.0	19828.79	19828.57	19828.37	19828.19	19828.04	19827.93	19827.86	19827.84	19827.89	19828.00
4.5	19819.96	19819.92	19819.91	19819.94	19820.01	19820.12	19820.28	19820.49	19820.76	19821.09
5.0	19808.48	19808.67	19808.91	19809.20	19809.54	19809.93	19810.38	19810.86	19811.40	19811.99
5.5	19794.28	19794.70	19795.20	19795.76	19796.40	19797.09	19797.84	19798.64	19799.50	19800.40
6.0	19777.85	19778.46	19779.18	19779.97	19780.84	19781.79	19782.80	19783.88	19785.01	19786.20
6.5	19759.92	19760.61	19761.40	19762.27	19763.22	19764.25	19765.36	19766.54	19767.80	19769.13
7.0	19739.70	19740.42	19741.23	19742.13	19743.11	19744.17	19745.32	19746.57	19747.90	19749.31
7.5	19716.68	19717.46	19718.32	19719.29	19720.35	19721.50	19722.76	19724.11	19725.57	19727.13
8.0	19690.71	19691.49	19692.38	19693.37	19694.47	19695.67	19697.00	19698.43	19699.97	19701.64
8.5	19661.93	19662.60	19663.38	19664.27	19665.27	19666.39	19667.64	19669.02	19670.54	19672.20
9.0	19628.86	19629.44	19630.11	19630.89	19631.78	19632.80	19633.96	19635.26	19636.72	19638.35
9.5	19590.22	19590.81	19591.50	19592.27	19593.16	19594.17	19595.31	19596.61	19598.06	19599.68
10.0	19545.60	19546.26	19547.01	19547.84	19548.79	19549.84	19551.02	19552.35	19553.82	19555.47
10.5	19494.37	19495.13	19495.97	19496.91	19497.96	19499.13	19500.42	19501.85	19503.42	19505.16
11.0	19435.94	19436.81	19437.79	19438.86	19440.05	19441.35	19442.79	19444.35	19446.06	19447.91
11.5	19369.80	19370.78	19371.87	19373.06	19374.38	19375.82	19377.39	19379.09	19380.93	19382.90
12.0	19295.11	19296.23	19297.46	19298.81	19300.29	19301.89	19303.62	19305.48	19307.47	19309.59
12.5	19210.98	19212.32	19213.80	19215.40	19217.13	19218.98	19220.96	19223.05	19225.26	19227.59
13.0	19117.09	19118.65	19120.35	19122.18	19124.14	19126.22	19128.42	19130.72	19133.13	19135.64
13.5	19013.51	19015.17	19016.97	19018.88	19020.92	19023.07	19025.34	19027.70	19030.17	19032.73
14.0	18898.20	18899.95	18901.80	18903.76	18905.83	18908.01	18910.29	18912.67	18915.15	18917.73
14.5	18769.39	18771.24	18773.17	18775.19	18777.30	18779.51	18781.80	18784.19	18786.68	18789.26
15.0	18626.38	18628.36	18630.41	18632.53	18634.73	18637.01	18639.37	18641.81	18644.35	18646.99
15.5	18467.97	18470.14	18472.40	18474.73	18477.15	18479.65	18482.24	18484.92	18487.68	18490.52
16.0	18293.95	18296.32	18298.80	18301.38	18304.04	18306.80	18309.65	18312.58	18315.59	18318.68
16.5	18103.87	18106.42	18109.07	18111.80	18114.63	18117.54	18120.54	18123.62	18126.78	18130.01
17.0	17897.25	17899.97	17902.80	17905.71	17908.70	17911.78	17914.95	17918.20	17921.52	17924.93
17.5	17673.43	17676.36	17679.40	17682.55	17685.81	17689.17	17692.63	17696.18	17699.82	17703.54
18.0	17432.54	17435.65	17438.91	17442.32	17445.87	17449.54	17453.33	17457.24	17461.24	17465.35
18.5	17174.31	17177.57	17181.04	17184.70	17188.54	17192.55	17196.70	17200.99	17205.39	17209.90
19.0	16899.18	16902.52	16906.13	16909.98	16914.07	16918.35	16922.82	16927.46	16932.23	16937.13
19.5	16607.42	16610.72	16614.32	16618.20	16622.34	16626.72	16631.32	16636.13	16641.13	16646.30
20.0	16299.17	16302.40	16305.96	16309.83	16314.01	16318.47	16323.21	16328.20	16333.44	16338.90
20.5	15974.23	15977.48	15981.14	15985.21	15989.65	15994.43	15999.55	16004.97	16010.66	16016.61
21.0	15633.83	15636.99	15640.67	15644.83	15649.43	15654.45	15659.86	15665.61	15671.68	15678.04
21.5	15279.30	15282.01	15285.28	15289.06	15293.33	15298.07	15303.25	15308.83	15314.81	15321.14
22.0	14910.08	14912.37	14915.24	14918.65	14922.60	14927.05	14931.98	14937.38	14943.23	14949.49
22.5	14524.83	14527.15	14530.11	14533.68	14537.83	14542.53	14547.74	14553.44	14559.58	14566.13
23.0	14127.29	14129.68	14132.78	14136.55	14140.95	14145.91	14151.41	14157.39	14163.81	14170.63
23.5	13721.32	13723.52	13726.44	13730.04	13734.28	13739.10	13744.46	13750.31	13756.60	13763.28
24.0	13305.17	13307.11	13309.79	13313.14	13317.13	13321.71	13326.82	13332.42	13338.46	13344.90
24.5	12877.87	12879.69	12882.26	12885.52	12889.42	12893.90	12898.92	12904.43	12910.36	12916.68
25.0	12440.84	12442.47	12444.85	12447.91	12451.60	12455.88	12460.68	12465.96	12471.66	12477.74
25.5	11994.58	11995.74	11997.61	12000.12	12003.25	12006.93	12011.11	12015.77	12020.84	12026.27
26.0	11540.82	11541.47	11542.74	11544.60	11547.03	11549.97	11553.39	11557.26	11561.55	11566.21
26.5	11081.11	11081.31	11082.03	11083.24	11084.94	11087.09	11089.70	11092.74	11096.19	11100.04

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27.0	10616.58	10616.46	10616.75	10617.46	10618.56	10620.08	10622.01	10624.34	10627.08	10630.22
27.5	10147.66	10147.52	10147.78	10148.43	10149.46	10150.86	10152.63	10154.74	10157.20	10159.99
28.0	9678.02	9677.86	9678.11	9678.75	9679.75	9681.08	9682.74	9684.69	9686.92	9689.40
28.5	9210.75	9210.28	9210.15	9210.37	9210.90	9211.74	9212.87	9214.28	9215.94	9217.85
29.0	8747.96	8747.14	8746.61	8746.36	8746.40	8746.70	8747.28	8748.11	8749.21	8750.55
29.5	8292.27	8291.27	8290.53	8290.04	8289.81	8289.83	8290.11	8290.63	8291.41	8292.44
30.0	7845.21	7844.13	7843.29	7842.66	7842.27	7842.11	7842.18	7842.49	7843.02	7843.79
30.5	7408.79	7407.78	7406.97	7406.34	7405.90	7405.64	7405.56	7405.66	7405.94	7406.39
31.0	6984.23	6983.29	6982.49	6981.84	6981.33	6980.95	6980.70	6980.58	6980.59	6980.72
31.5	6572.93	6571.83	6570.84	6569.94	6569.16	6568.48	6567.92	6567.49	6567.18	6567.01
32.0	6176.46	6175.14	6173.87	6172.67	6171.55	6170.53	6169.63	6168.86	6168.24	6167.77
32.5	5796.79	5795.19	5793.62	5792.11	5790.68	5789.35	5788.13	5787.05	5786.12	5785.37
33.0	5434.16	5432.33	5430.53	5428.77	5427.09	5425.49	5424.02	5422.67	5421.48	5420.47
33.5	5089.13	5087.32	5085.51	5083.71	5081.95	5080.25	5078.64	5077.14	5075.76	5074.54
34.0	4762.65	4760.91	4759.13	4757.33	4755.55	4753.79	4752.10	4750.48	4748.97	4747.59
34.5	4455.48	4453.63	4451.74	4449.84	4447.94	4446.07	4444.26	4442.53	4440.91	4439.41
35.0	4168.83	4166.88	4164.90	4162.91	4160.94	4158.99	4157.11	4155.31	4153.62	4152.06
35.5	3907.27	3905.39	3903.49	3901.59	3899.69	3897.83	3896.02	3894.27	3892.62	3891.06
36.0	3661.44	3659.65	3657.84	3656.03	3654.21	3652.42	3650.66	3648.96	3647.32	3645.77
36.5	3419.66	3417.87	3416.01	3414.12	3412.21	3410.30	3408.41	3406.56	3404.78	3403.09
37.0	3193.45	3191.63	3189.71	3187.73	3185.70	3183.65	3181.62	3179.63	3177.70	3175.87
37.5	2993.23	2991.42	2989.50	2987.51	2985.48	2983.42	2981.38	2979.38	2977.44	2975.60
38.0	2810.58	2808.79	2806.90	2804.95	2802.94	2800.93	2798.92	2796.95	2795.05	2793.25
38.5	2640.29	2638.56	2636.72	2634.80	2632.82	2630.83	2628.85	2626.90	2625.03	2623.25
39.0	2483.02	2481.40	2479.66	2477.83	2475.95	2474.03	2472.13	2470.26	2468.46	2466.75
39.5	2338.07	2336.65	2335.13	2333.53	2331.86	2330.18	2328.49	2326.82	2325.21	2323.69
40.0	2204.32	2203.15	2201.88	2200.53	2199.13	2197.70	2196.26	2194.83	2193.44	2192.11
40.5	2080.61	2079.68	2078.63	2077.51	2076.32	2075.09	2073.84	2072.59	2071.36	2070.18
41.0	1966.36	1965.65	1964.83	1963.91	1962.91	1961.87	1960.79	1959.70	1958.62	1957.58
41.5	1860.57	1860.09	1859.49	1858.80	1858.03	1857.19	1856.32	1855.42	1854.52	1853.64
42.0	1763.28	1762.97	1762.53	1761.99	1761.37	1760.68	1759.94	1759.17	1758.40	1757.63
42.5	1675.58	1675.20	1674.65	1673.96	1673.15	1672.27	1671.35	1670.41	1669.50	1668.64
43.0	1593.31	1592.99	1592.47	1591.79	1590.99	1590.10	1589.18	1588.25	1587.36	1586.54
43.5	1511.09	1511.44	1511.72	1511.91	1512.04	1512.11	1512.11	1512.07	1511.97	1511.84
44.0	1433.68	1434.68	1435.72	1436.77	1437.81	1438.79	1439.70	1440.52	1441.20	1441.73
44.5	1365.12	1366.10	1367.09	1368.07	1369.00	1369.89	1370.71	1371.44	1372.06	1372.56
45.0	1302.15	1302.98	1303.74	1304.44	1305.08	1305.67	1306.19	1306.64	1307.04	1307.38
45.5	1242.80	1243.69	1244.52	1245.29	1245.99	1246.64	1247.22	1247.76	1248.23	1248.66
46.0	1187.24	1188.25	1189.21	1190.12	1190.97	1191.77	1192.52	1193.21	1193.84	1194.41
46.5	1135.06	1136.18	1137.27	1138.32	1139.33	1140.29	1141.20	1142.05	1142.84	1143.56
47.0	1086.03	1087.27	1088.48	1089.68	1090.84	1091.96	1093.03	1094.05	1095.00	1095.87
47.5	1039.86	1041.20	1042.53	1043.85	1045.14	1046.39	1047.59	1048.73	1049.81	1050.80
48.0	996.33	997.75	999.17	1000.58	1001.96	1003.32	1004.62	1005.87	1007.04	1008.13
48.5	955.20	956.63	958.07	959.50	960.92	962.31	963.67	964.96	966.20	967.35
49.0	916.29	917.73	919.19	920.64	922.09	923.52	924.91	926.26	927.54	928.76
49.5	879.39	880.91	882.44	883.99	885.54	887.07	888.56	890.01	891.40	892.71
50.0	844.45	846.03	847.63	849.26	850.89	852.51	854.09	855.62	857.09	858.48
50.5	811.48	813.02	814.60	816.20	817.81	819.41	820.98	822.51	823.99	825.39
51.0	780.07	781.56	783.09	784.65	786.22	787.78	789.33	790.84	792.30	793.71
51.5	749.71	751.20	752.74	754.31	755.89	757.48	759.06	760.60	762.11	763.55
52.0	720.67	722.16	723.71	725.29	726.90	728.52	730.13	731.71	733.25	734.73
52.5	693.14	694.62	696.16	697.74	699.35	700.96	702.56	704.15	705.68	707.17
53.0	666.79	668.25	669.76	671.32	672.91	674.50	676.09	677.66	679.18	680.66
53.5	641.31	642.71	644.17	645.69	647.24	648.80	650.37	651.92	653.44	654.91
54.0	616.77	618.11	619.52	620.99	622.50	624.03	625.57	627.10	628.60	630.07
54.5	593.21	594.51	595.89	597.32	598.79	600.28	601.79	603.29	604.77	606.21

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55.0	570.46	571.74	573.09	574.49	575.94	577.41	578.89	580.36	581.82	583.24
55.5	548.35	549.62	550.97	552.37	553.81	555.28	556.76	558.24	559.70	561.13
56.0	526.99	528.24	529.58	530.97	532.41	533.88	535.37	536.85	538.31	539.73
56.5	506.48	507.69	508.98	510.34	511.74	513.17	514.62	516.06	517.48	518.87
57.0	486.59	487.76	489.02	490.33	491.69	493.08	494.49	495.89	497.28	498.64
57.5	467.07	468.22	469.45	470.76	472.11	473.50	474.90	476.31	477.70	479.05
58.0	448.13	449.26	450.49	451.78	453.13	454.52	455.93	457.34	458.73	460.08
58.5	429.97	431.07	432.27	433.55	434.88	436.24	437.63	439.01	440.38	441.71
59.0	412.42	413.50	414.68	415.92	417.23	418.57	419.93	421.29	422.63	423.93
59.5	395.37	396.42	397.58	398.80	400.09	401.41	402.75	404.10	405.42	406.70
60.0	378.88	379.92	381.05	382.26	383.53	384.84	386.17	387.49	388.80	390.07
60.5	363.03	364.04	365.15	366.34	367.60	368.89	370.21	371.52	372.81	374.06
61.0	347.79	348.78	349.87	351.04	352.28	353.55	354.85	356.14	357.41	358.63
61.5	333.25	334.22	335.28	336.43	337.64	338.88	340.14	341.40	342.63	343.81
62.0	319.17	320.12	321.16	322.28	323.45	324.66	325.88	327.09	328.28	329.42
62.5	305.26	306.15	307.15	308.22	309.36	310.54	311.73	312.93	314.10	315.23
63.0	291.83	292.67	293.62	294.65	295.74	296.89	298.05	299.23	300.38	301.51
63.5	279.18	279.98	280.88	281.86	282.92	284.01	285.14	286.27	287.38	288.46
64.0	267.11	267.87	268.73	269.67	270.68	271.73	272.81	273.89	274.95	275.98
64.5	255.52	256.24	257.06	257.96	258.93	259.94	260.97	262.01	263.03	264.02
65.0	244.43	245.12	245.90	246.76	247.69	248.66	249.65	250.65	251.63	252.58
65.5	233.85	234.50	235.25	236.07	236.96	237.89	238.84	239.80	240.74	241.66
66.0	223.75	224.37	225.09	225.88	226.74	227.63	228.55	229.47	230.38	231.26
66.5	214.13	214.73	215.43	216.21	217.04	217.92	218.81	219.71	220.59	221.43
67.0	204.97	205.56	206.24	206.99	207.81	208.66	209.52	210.39	211.24	212.04
67.5	196.28	196.84	197.48	198.20	198.97	199.78	200.60	201.42	202.23	202.99
68.0	187.98	188.50	189.10	189.77	190.49	191.25	192.02	192.79	193.54	194.26
68.5	180.03	180.50	181.05	181.67	182.33	183.03	183.74	184.45	185.14	185.79
69.0	172.29	172.73	173.24	173.81	174.42	175.06	175.72	176.37	177.01	177.61
69.5	164.59	165.01	165.50	166.06	166.66	167.29	167.93	168.56	169.17	169.75
70.0	157.08	157.48	157.96	158.49	159.07	159.68	160.30	160.91	161.50	162.05
70.5	149.88	150.23	150.65	151.12	151.64	152.17	152.72	153.27	153.80	154.30
71.0	142.92	143.21	143.55	143.95	144.39	144.85	145.32	145.80	146.26	146.70
71.5	136.12	136.36	136.66	137.00	137.38	137.78	138.19	138.61	139.02	139.41
72.0	129.50	129.70	129.96	130.25	130.58	130.93	131.29	131.66	132.02	132.37
72.5	123.06	123.23	123.45	123.70	123.98	124.28	124.59	124.91	125.23	125.53
73.0	116.80	116.94	117.13	117.34	117.58	117.84	118.12	118.39	118.67	118.94
73.5	110.68	110.81	110.98	111.18	111.40	111.64	111.89	112.14	112.40	112.64
74.0	104.75	104.88	105.04	105.22	105.42	105.64	105.87	106.10	106.33	106.55
74.5	99.08	99.18	99.31	99.46	99.63	99.81	100.00	100.20	100.39	100.58
75.0	93.61	93.68	93.78	93.89	94.02	94.17	94.32	94.48	94.64	94.80
75.5	88.30	88.35	88.43	88.52	88.62	88.73	88.86	88.99	89.12	89.26
76.0	83.16	83.20	83.26	83.33	83.41	83.50	83.60	83.70	83.81	83.92
76.5	78.22	78.25	78.29	78.35	78.41	78.48	78.56	78.64	78.73	78.81
77.0	73.43	73.46	73.49	73.53	73.58	73.64	73.69	73.75	73.82	73.88
77.5	68.81	68.82	68.84	68.86	68.88	68.91	68.95	68.98	69.02	69.05
78.0	64.32	64.31	64.32	64.32	64.33	64.34	64.35	64.36	64.38	64.39
78.5	59.93	59.92	59.92	59.92	59.92	59.92	59.92	59.92	59.92	59.92
79.0	55.65	55.65	55.66	55.66	55.66	55.65	55.65	55.64	55.63	55.62
79.5	51.51	51.52	51.53	51.53	51.53	51.54	51.53	51.53	51.51	51.49
80.0	47.48	47.49	47.50	47.51	47.52	47.52	47.52	47.52	47.50	47.48
80.5	43.55	43.56	43.56	43.57	43.57	43.57	43.57	43.56	43.54	43.52
81.0	39.70	39.70	39.70	39.70	39.70	39.69	39.68	39.66	39.64	39.62
81.5	35.90	35.90	35.90	35.90	35.89	35.88	35.87	35.85	35.83	35.80
82.0	32.14	32.14	32.14	32.13	32.12	32.11	32.09	32.07	32.04	32.01
82.5	28.37	28.36	28.35	28.34	28.32	28.30	28.27	28.24	28.21	28.17

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83.0	24.64	24.63	24.61	24.59	24.56	24.53	24.49	24.45	24.40	24.36
83.5	20.98	20.96	20.94	20.91	20.87	20.83	20.78	20.74	20.69	20.64
84.0	17.42	17.40	17.37	17.33	17.28	17.24	17.19	17.14	17.09	17.04
84.5	13.95	13.92	13.89	13.85	13.80	13.75	13.71	13.66	13.61	13.57
85.0	10.70	10.68	10.65	10.61	10.57	10.53	10.49	10.45	10.41	10.38
85.5	7.76	7.76	7.75	7.75	7.74	7.72	7.71	7.69	7.67	7.66
86.0	5.26	5.29	5.31	5.33	5.35	5.36	5.37	5.38	5.38	5.38
86.5	3.44	3.46	3.48	3.50	3.52	3.53	3.55	3.56	3.56	3.57
87.0	2.20	2.22	2.23	2.24	2.25	2.26	2.27	2.28	2.28	2.29
87.5	1.67	1.68	1.69	1.69	1.70	1.71	1.71	1.72	1.72	1.73
88.0	1.49	1.50	1.51	1.51	1.52	1.52	1.53	1.53	1.54	1.54
88.5	1.38	1.38	1.39	1.39	1.40	1.40	1.41	1.41	1.42	1.42
89.0	1.35	1.36	1.36	1.36	1.37	1.37	1.38	1.38	1.39	1.39
89.5	1.34	1.35	1.35	1.35	1.35	1.36	1.36	1.36	1.37	1.37
90.0	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38

**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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19827.95	19827.99	19828.04	19828.08	19828.12	19828.16	19828.18	19828.21	19828.22	19828.15
1.0	19829.85	19829.91	19829.97	19830.03	19830.10	19830.15	19830.20	19830.23	19830.25	19830.15
1.5	19833.13	19833.17	19833.21	19833.25	19833.29	19833.33	19833.36	19833.38	19833.39	19833.29
2.0	19836.10	19836.13	19836.16	19836.20	19836.25	19836.29	19836.33	19836.37	19836.39	19836.32
2.5	19837.22	19837.32	19837.44	19837.58	19837.73	19837.88	19838.03	19838.17	19838.30	19838.27
3.0	19836.54	19836.75	19837.00	19837.27	19837.57	19837.87	19838.17	19838.46	19838.74	19838.80
3.5	19833.48	19833.82	19834.20	19834.63	19835.07	19835.54	19836.00	19836.47	19836.92	19837.16
4.0	19828.41	19828.89	19829.41	19829.98	19830.59	19831.21	19831.85	19832.48	19833.11	19833.54
4.5	19821.63	19822.24	19822.89	19823.57	19824.29	19825.02	19825.77	19826.52	19827.26	19827.83
5.0	19812.72	19813.49	19814.30	19815.13	19815.99	19816.85	19817.72	19818.59	19819.45	19820.16
5.5	19801.41	19802.46	19803.53	19804.61	19805.71	19806.80	19807.88	19808.94	19809.97	19810.79
6.0	19787.51	19788.86	19790.22	19791.60	19792.97	19794.33	19795.66	19796.96	19798.21	19799.16
6.5	19770.68	19772.29	19773.94	19775.60	19777.27	19778.92	19780.55	19782.13	19783.65	19784.84
7.0	19751.09	19752.93	19754.83	19756.76	19758.71	19760.64	19762.56	19764.43	19766.24	19767.71
7.5	19729.07	19731.10	19733.19	19735.32	19737.48	19739.63	19741.77	19743.88	19745.92	19747.69
8.0	19703.73	19705.92	19708.19	19710.50	19712.86	19715.21	19717.56	19719.88	19722.14	19724.15
8.5	19674.46	19676.85	19679.33	19681.88	19684.48	19687.08	19689.67	19692.22	19694.70	19696.82
9.0	19640.75	19643.30	19645.96	19648.70	19651.48	19654.29	19657.07	19659.80	19662.45	19664.61
9.5	19602.11	19604.68	19607.38	19610.15	19612.98	19615.82	19618.64	19621.40	19624.09	19626.27
10.0	19557.90	19560.48	19563.17	19565.93	19568.75	19571.57	19574.37	19577.12	19579.78	19581.95
10.5	19507.64	19510.25	19512.96	19515.75	19518.57	19521.39	19524.19	19526.92	19529.55	19531.67
11.0	19450.46	19453.13	19455.89	19458.71	19461.55	19464.38	19467.17	19469.89	19472.50	19474.56
11.5	19385.55	19388.30	19391.14	19394.03	19396.93	19399.81	19402.64	19405.39	19408.01	19410.05
12.0	19312.34	19315.19	19318.11	19321.07	19324.03	19326.96	19329.82	19332.58	19335.21	19337.22
12.5	19230.43	19233.34	19236.30	19239.28	19242.25	19245.16	19247.98	19250.70	19253.27	19255.20
13.0	19138.57	19141.55	19144.57	19147.57	19150.55	19153.46	19156.26	19158.94	19161.45	19163.30
13.5	19035.78	19038.88	19042.00	19045.11	19048.18	19051.16	19054.04	19056.76	19059.31	19061.13
14.0	18920.89	18924.11	18927.34	18930.57	18933.75	18936.83	18939.79	18942.60	18945.20	18947.00
14.5	18792.50	18795.80	18799.12	18802.42	18805.67	18808.82	18811.84	18814.68	18817.30	18819.07
15.0	18650.32	18653.71	18657.12	18660.51	18663.84	18667.05	18670.13	18673.02	18675.68	18677.42
15.5	18494.01	18497.55	18501.09	18504.60	18508.03	18511.34	18514.50	18517.46	18520.17	18521.96
16.0	18322.35	18326.05	18329.74	18333.39	18336.95	18340.38	18343.64	18346.69	18349.50	18351.39
16.5	18133.81	18137.65	18141.48	18145.26	18148.95	18152.50	18155.89	18159.07	18162.00	18164.09
17.0	17928.92	17932.94	17936.96	17940.93	17944.81	17948.55	17952.13	17955.50	17958.62	17960.96
17.5	17707.87	17712.24	17716.60	17720.91	17725.14	17729.22	17733.12	17736.80	17740.21	17742.81
18.0	17470.05	17474.80	17479.54	17484.24	17488.84	17493.30	17497.57	17501.62	17505.38	17508.31

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18.5	17214.88	17219.90	17224.93	17229.90	17234.80	17239.55	17244.14	17248.50	17252.60	17256.04
19.0	16942.43	16947.78	16953.14	16958.48	16963.73	16968.86	16973.83	16978.59	16983.09	16987.04
19.5	16652.13	16658.06	16664.04	16670.00	16675.90	16681.67	16687.27	16692.64	16697.72	16702.03
20.0	16345.29	16351.82	16358.43	16365.05	16371.62	16378.06	16384.31	16390.31	16395.98	16400.63
20.5	16023.43	16030.41	16037.47	16044.56	16051.59	16058.50	16065.21	16071.67	16077.78	16082.83
21.0	15685.20	15692.54	15699.98	15707.46	15714.89	15722.21	15729.35	15736.22	15742.77	15748.24
21.5	15328.53	15336.17	15343.98	15351.88	15359.78	15367.61	15375.27	15382.69	15389.79	15395.78
22.0	14957.03	14964.88	14972.96	14981.16	14989.42	14997.62	15005.70	15013.56	15021.11	15027.52
22.5	14573.77	14581.71	14589.86	14598.13	14606.44	14614.71	14622.84	14630.76	14638.38	14644.94
23.0	14178.25	14186.15	14194.23	14202.42	14210.63	14218.79	14226.82	14234.63	14242.15	14248.71
23.5	13770.69	13778.37	13786.23	13794.21	13802.22	13810.19	13818.05	13825.71	13833.10	13839.67
24.0	13352.02	13359.41	13367.00	13374.71	13382.46	13390.17	13397.79	13405.22	13412.39	13418.87
24.5	12923.63	12930.83	12938.21	12945.69	12953.20	12960.66	12968.01	12975.15	12982.03	12988.17
25.0	12484.42	12491.34	12498.43	12505.60	12512.80	12519.94	12526.94	12533.73	12540.24	12545.99
25.5	12032.35	12038.69	12045.20	12051.82	12058.48	12065.10	12071.62	12077.97	12084.07	12089.62
26.0	11571.66	11577.37	11583.29	11589.34	11595.45	11601.55	11607.57	11613.44	11619.10	11624.29
26.5	11105.17	11110.59	11116.23	11122.01	11127.84	11133.65	11139.34	11144.84	11150.07	11154.29
27.0	10634.97	10640.03	10645.31	10650.72	10656.17	10661.57	10666.83	10671.85	10676.54	10679.79
27.5	10163.94	10168.14	10172.52	10176.99	10181.48	10185.93	10190.26	10194.38	10198.24	10201.10
28.0	9692.54	9695.86	9699.30	9702.81	9706.33	9709.81	9713.19	9716.43	9719.46	9722.04
28.5	9220.49	9223.30	9226.24	9229.24	9232.26	9235.24	9238.13	9240.87	9243.41	9245.52
29.0	8752.85	8755.33	8757.94	8760.62	8763.31	8765.96	8768.50	8770.89	8773.05	8774.57
29.5	8294.58	8296.91	8299.35	8301.84	8304.32	8306.72	8308.96	8311.00	8312.76	8313.42
30.0	7845.74	7847.85	7850.06	7852.30	7854.49	7856.57	7858.47	7860.12	7861.45	7861.36
30.5	7407.71	7409.15	7410.66	7412.18	7413.65	7415.02	7416.25	7417.27	7418.03	7417.81
31.0	6981.45	6982.26	6983.11	6983.96	6984.78	6985.51	6986.13	6986.59	6986.86	6986.60
31.5	6567.66	6568.41	6569.20	6569.99	6570.73	6571.38	6571.89	6572.22	6572.31	6571.54
32.0	6168.43	6169.21	6170.05	6170.89	6171.69	6172.38	6172.92	6173.23	6173.27	6172.05
32.5	5785.78	5786.33	5786.97	5787.63	5788.28	5788.85	5789.29	5789.54	5789.56	5788.44
33.0	5420.57	5420.83	5421.19	5421.60	5422.02	5422.40	5422.69	5422.84	5422.80	5421.88
33.5	5074.35	5074.30	5074.34	5074.43	5074.53	5074.60	5074.59	5074.47	5074.20	5073.21
34.0	4747.14	4746.81	4746.57	4746.36	4746.17	4745.95	4745.67	4745.29	4744.78	4743.68
34.5	4438.84	4438.39	4438.03	4437.71	4437.42	4437.11	4436.75	4436.30	4435.74	4434.64
35.0	4151.39	4150.84	4150.38	4149.98	4149.61	4149.23	4148.81	4148.32	4147.73	4146.68
35.5	3890.20	3889.44	3888.76	3888.13	3887.53	3886.93	3886.32	3885.66	3884.94	3884.01
36.0	3644.74	3643.79	3642.91	3642.07	3641.27	3640.48	3639.69	3638.88	3638.03	3637.17
36.5	3402.01	3401.03	3400.11	3399.24	3398.41	3397.59	3396.77	3395.93	3395.05	3394.07
37.0	3174.79	3173.82	3172.93	3172.09	3171.29	3170.50	3169.71	3168.89	3168.02	3166.91
37.5	2974.53	2973.56	2972.67	2971.84	2971.06	2970.29	2969.52	2968.73	2967.90	2966.83
38.0	2792.21	2791.27	2790.42	2789.62	2788.88	2788.15	2787.43	2786.70	2785.92	2784.94
38.5	2622.29	2621.44	2620.67	2619.98	2619.33	2618.70	2618.08	2617.44	2616.76	2615.83
39.0	2465.88	2465.12	2464.45	2463.84	2463.28	2462.74	2462.20	2461.64	2461.03	2460.15
39.5	2322.88	2322.16	2321.51	2320.91	2320.35	2319.80	2319.24	2318.66	2318.04	2317.15
40.0	2191.37	2190.69	2190.06	2189.47	2188.89	2188.32	2187.74	2187.12	2186.47	2185.57
40.5	2069.53	2068.93	2068.37	2067.83	2067.30	2066.77	2066.22	2065.64	2065.01	2064.15
41.0	1957.03	1956.52	1956.04	1955.57	1955.11	1954.63	1954.14	1953.60	1953.02	1952.24
41.5	1853.16	1852.70	1852.25	1851.81	1851.37	1850.91	1850.44	1849.93	1849.39	1848.73
42.0	1757.26	1756.91	1756.57	1756.23	1755.89	1755.53	1755.14	1754.72	1754.26	1753.69
42.5	1668.62	1668.67	1668.76	1668.86	1668.96	1669.02	1669.03	1668.96	1668.79	1668.00
43.0	1586.77	1587.08	1587.45	1587.83	1588.20	1588.52	1588.77	1588.90	1588.90	1588.02
43.5	1511.73	1511.58	1511.40	1511.18	1510.92	1510.63	1510.29	1509.92	1509.51	1509.17
44.0	1441.30	1440.71	1440.00	1439.20	1438.34	1437.45	1436.56	1435.70	1434.90	1435.09
44.5	1372.43	1372.18	1371.83	1371.39	1370.90	1370.35	1369.78	1369.21	1368.65	1368.71
45.0	1307.66	1307.89	1308.05	1308.15	1308.20	1308.18	1308.11	1307.97	1307.77	1307.57
45.5	1249.09	1249.47	1249.80	1250.06	1250.26	1250.40	1250.46	1250.46	1250.39	1250.21
46.0	1194.93	1195.38	1195.77	1196.10	1196.35	1196.55	1196.67	1196.72	1196.69	1196.61

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46.5	1144.17	1144.70	1145.17	1145.56	1145.88	1146.12	1146.29	1146.39	1146.41	1146.38
47.0	1096.55	1097.15	1097.66	1098.10	1098.46	1098.75	1098.95	1099.08	1099.13	1099.17
47.5	1051.53	1052.17	1052.73	1053.20	1053.59	1053.90	1054.13	1054.29	1054.37	1054.50
48.0	1008.91	1009.61	1010.21	1010.72	1011.15	1011.51	1011.78	1011.98	1012.11	1012.32
48.5	968.24	969.04	969.75	970.37	970.91	971.37	971.75	972.05	972.27	972.51
49.0	929.74	930.64	931.45	932.18	932.82	933.38	933.85	934.24	934.54	934.81
49.5	893.72	894.64	895.47	896.21	896.86	897.43	897.90	898.30	898.60	898.90
50.0	859.51	860.45	861.30	862.05	862.70	863.27	863.75	864.15	864.46	864.79
50.5	826.49	827.51	828.44	829.28	830.03	830.69	831.26	831.74	832.13	832.49
51.0	794.88	795.98	796.99	797.92	798.77	799.53	800.19	800.77	801.24	801.64
51.5	764.75	765.88	766.92	767.89	768.77	769.56	770.27	770.88	771.40	771.86
52.0	735.94	737.08	738.13	739.11	740.01	740.82	741.54	742.18	742.72	743.23
52.5	708.38	709.52	710.58	711.57	712.47	713.29	714.02	714.67	715.22	715.74
53.0	681.87	683.02	684.09	685.08	686.00	686.83	687.57	688.23	688.80	689.32
53.5	656.15	657.33	658.43	659.46	660.42	661.29	662.09	662.79	663.40	663.95
54.0	631.33	632.53	633.67	634.74	635.73	636.65	637.48	638.23	638.89	639.45
54.5	607.46	608.66	609.80	610.87	611.87	612.79	613.64	614.40	615.06	615.64
55.0	584.47	585.66	586.78	587.84	588.83	589.74	590.58	591.34	592.00	592.59
55.5	562.35	563.52	564.62	565.67	566.64	567.54	568.37	569.11	569.76	570.33
56.0	540.94	542.09	543.17	544.20	545.15	546.03	546.83	547.56	548.19	548.74
56.5	520.05	521.17	522.24	523.24	524.17	525.03	525.82	526.52	527.15	527.68
57.0	499.78	500.88	501.91	502.89	503.80	504.64	505.40	506.09	506.70	507.21
57.5	480.17	481.24	482.25	483.20	484.08	484.89	485.63	486.29	486.88	487.37
58.0	461.18	462.22	463.20	464.12	464.98	465.76	466.47	467.10	467.66	468.12
58.5	442.79	443.80	444.76	445.65	446.48	447.23	447.91	448.52	449.04	449.45
59.0	424.98	425.96	426.89	427.75	428.55	429.27	429.92	430.49	430.98	431.33
59.5	407.72	408.67	409.56	410.38	411.14	411.82	412.43	412.97	413.42	413.73
60.0	391.04	391.95	392.79	393.57	394.28	394.92	395.49	395.98	396.40	396.67
60.5	374.98	375.83	376.62	377.34	378.00	378.58	379.09	379.53	379.90	380.14
61.0	359.50	360.30	361.03	361.69	362.29	362.82	363.28	363.67	364.00	364.20
61.5	344.62	345.37	346.06	346.67	347.22	347.70	348.11	348.47	348.75	348.93
62.0	330.21	330.93	331.58	332.16	332.68	333.14	333.53	333.86	334.12	334.26
62.5	316.04	316.78	317.45	318.06	318.61	319.09	319.51	319.86	320.14	320.26
63.0	302.32	303.08	303.78	304.42	305.00	305.50	305.94	306.31	306.61	306.70
63.5	289.25	289.98	290.64	291.25	291.79	292.26	292.67	293.00	293.26	293.26
64.0	276.72	277.40	278.03	278.59	279.08	279.51	279.86	280.15	280.36	280.28
64.5	264.72	265.37	265.95	266.48	266.94	267.34	267.67	267.93	268.12	268.01
65.0	253.24	253.85	254.41	254.90	255.34	255.71	256.01	256.26	256.43	256.32
65.5	242.29	242.86	243.39	243.85	244.26	244.61	244.90	245.13	245.29	245.20
66.0	231.85	232.38	232.87	233.30	233.68	234.00	234.26	234.47	234.62	234.55
66.5	221.95	222.42	222.84	223.21	223.52	223.79	224.01	224.18	224.30	224.27
67.0	212.50	212.91	213.26	213.56	213.81	214.02	214.19	214.32	214.41	214.41
67.5	203.40	203.76	204.07	204.33	204.55	204.73	204.87	204.97	205.05	205.05
68.0	194.63	194.95	195.23	195.46	195.65	195.80	195.92	196.01	196.07	196.07
68.5	186.12	186.41	186.65	186.84	187.01	187.13	187.23	187.31	187.36	187.37
69.0	177.89	178.14	178.33	178.50	178.62	178.72	178.80	178.85	178.89	178.91
69.5	169.98	170.16	170.29	170.39	170.46	170.51	170.53	170.54	170.54	170.57
70.0	162.23	162.36	162.46	162.51	162.54	162.54	162.52	162.50	162.47	162.51
70.5	154.48	154.62	154.73	154.80	154.85	154.88	154.89	154.90	154.90	154.94
71.0	146.89	147.06	147.19	147.30	147.39	147.46	147.51	147.55	147.59	147.63
71.5	139.60	139.76	139.89	140.00	140.10	140.18	140.25	140.31	140.36	140.42
72.0	132.54	132.69	132.82	132.93	133.03	133.11	133.19	133.26	133.33	133.39
72.5	125.69	125.83	125.96	126.08	126.18	126.28	126.37	126.45	126.53	126.62
73.0	119.08	119.22	119.34	119.45	119.56	119.66	119.75	119.85	119.94	120.05
73.5	112.76	112.87	112.97	113.06	113.15	113.24	113.32	113.41	113.50	113.64
74.0	106.65	106.74	106.82	106.90	106.97	107.04	107.12	107.20	107.29	107.44

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74.5	100.68	100.78	100.86	100.95	101.03	101.12	101.21	101.30	101.40	101.55
75.0	94.91	95.01	95.11	95.21	95.31	95.41	95.51	95.62	95.73	95.87
75.5	89.36	89.46	89.56	89.66	89.76	89.86	89.97	90.08	90.19	90.32
76.0	84.01	84.10	84.19	84.28	84.38	84.47	84.57	84.67	84.78	84.90
76.5	78.87	78.94	79.00	79.07	79.13	79.21	79.28	79.36	79.45	79.56
77.0	73.91	73.94	73.98	74.01	74.05	74.10	74.15	74.20	74.26	74.37
77.5	69.07	69.08	69.10	69.12	69.14	69.17	69.20	69.24	69.28	69.37
78.0	64.39	64.38	64.38	64.38	64.39	64.40	64.41	64.43	64.46	64.53
78.5	59.89	59.86	59.83	59.80	59.77	59.76	59.75	59.74	59.75	59.82
79.0	55.56	55.50	55.44	55.39	55.33	55.29	55.25	55.23	55.22	55.30
79.5	51.42	51.34	51.26	51.19	51.11	51.05	50.99	50.95	50.93	51.00
80.0	47.40	47.32	47.23	47.14	47.06	46.98	46.91	46.86	46.82	46.89
80.5	43.44	43.36	43.28	43.20	43.12	43.05	42.99	42.94	42.90	42.95
81.0	39.56	39.49	39.42	39.35	39.28	39.22	39.16	39.12	39.08	39.11
81.5	35.74	35.68	35.62	35.55	35.49	35.43	35.37	35.33	35.29	35.30
82.0	31.96	31.90	31.84	31.78	31.72	31.66	31.61	31.56	31.52	31.51
82.5	28.12	28.07	28.02	27.97	27.92	27.87	27.82	27.77	27.73	27.69
83.0	24.32	24.28	24.24	24.20	24.16	24.12	24.08	24.04	24.00	23.94
83.5	20.62	20.59	20.57	20.55	20.52	20.50	20.47	20.43	20.40	20.32
84.0	17.04	17.03	17.02	17.02	17.01	16.99	16.98	16.95	16.92	16.83
84.5	13.57	13.57	13.58	13.58	13.59	13.58	13.57	13.56	13.53	13.43
85.0	10.39	10.40	10.41	10.42	10.43	10.43	10.43	10.42	10.40	10.30
85.5	7.67	7.68	7.69	7.70	7.70	7.70	7.69	7.68	7.65	7.57
86.0	5.39	5.40	5.41	5.41	5.41	5.40	5.39	5.37	5.34	5.28
86.5	3.58	3.59	3.59	3.60	3.60	3.59	3.58	3.57	3.55	3.51
87.0	2.29	2.30	2.31	2.31	2.31	2.31	2.31	2.30	2.30	2.28
87.5	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.72	1.71
88.0	1.54	1.54	1.53	1.53	1.52	1.52	1.52	1.51	1.51	1.51
88.5	1.42	1.41	1.41	1.41	1.40	1.40	1.39	1.39	1.38	1.39
89.0	1.39	1.39	1.38	1.38	1.38	1.37	1.37	1.37	1.36	1.37
89.5	1.37	1.37	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
90.0	1.38	1.38	1.38	1.38	1.39	1.39	1.39	1.39	1.39	1.39

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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19828.08	19828.00	19827.92	19827.84	19827.77	19827.70	19827.64	19827.59	19827.61	19827.65
1.0	19830.04	19829.93	19829.80	19829.68	19829.57	19829.47	19829.38	19829.31	19829.35	19829.41
1.5	19833.18	19833.06	19832.95	19832.83	19832.72	19832.63	19832.54	19832.48	19832.54	19832.62
2.0	19836.24	19836.16	19836.07	19835.99	19835.91	19835.85	19835.79	19835.76	19835.84	19835.95
2.5	19838.23	19838.19	19838.13	19838.07	19838.02	19837.98	19837.95	19837.93	19838.08	19838.24
3.0	19838.84	19838.87	19838.88	19838.90	19838.91	19838.93	19838.96	19839.00	19839.25	19839.51
3.5	19837.38	19837.58	19837.77	19837.95	19838.14	19838.32	19838.52	19838.73	19839.15	19839.57
4.0	19833.95	19834.35	19834.73	19835.12	19835.50	19835.88	19836.27	19836.66	19837.28	19837.90
4.5	19828.40	19828.96	19829.51	19830.06	19830.60	19831.15	19831.69	19832.25	19833.07	19833.88
5.0	19820.87	19821.56	19822.24	19822.91	19823.58	19824.25	19824.92	19825.59	19826.57	19827.54
5.5	19811.59	19812.34	19813.08	19813.79	19814.49	19815.17	19815.84	19816.51	19817.56	19818.58
6.0	19800.06	19800.91	19801.72	19802.48	19803.21	19803.91	19804.58	19805.23	19806.32	19807.37
6.5	19785.97	19787.02	19788.01	19788.95	19789.82	19790.65	19791.42	19792.16	19793.33	19794.42
7.0	19769.09	19770.40	19771.63	19772.78	19773.85	19774.84	19775.76	19776.60	19777.84	19778.98
7.5	19749.37	19750.96	19752.46	19753.87	19755.18	19756.38	19757.47	19758.45	19759.71	19760.83
8.0	19726.08	19727.92	19729.65	19731.27	19732.77	19734.14	19735.36	19736.44	19737.73	19738.81
8.5	19698.84	19700.75	19702.54	19704.20	19705.72	19707.09	19708.31	19709.37	19710.69	19711.80
9.0	19666.65	19668.56	19670.34	19671.98	19673.46	19674.80	19675.97	19676.98	19678.35	19679.49
9.5	19628.33	19630.25	19632.04	19633.68	19635.18	19636.52	19637.70	19638.71	19640.13	19641.34

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10.0	19583.99	19585.90	19587.68	19589.31	19590.79	19592.13	19593.29	19594.30	19595.78	19597.03
10.5	19533.66	19535.51	19537.21	19538.78	19540.19	19541.45	19542.55	19543.49	19544.99	19546.27
11.0	19476.48	19478.25	19479.88	19481.36	19482.68	19483.85	19484.87	19485.72	19487.23	19488.52
11.5	19411.93	19413.66	19415.24	19416.65	19417.91	19419.01	19419.95	19420.73	19422.24	19423.52
12.0	19339.06	19340.74	19342.25	19343.60	19344.78	19345.80	19346.65	19347.35	19348.85	19350.11
12.5	19256.95	19258.53	19259.93	19261.17	19262.24	19263.14	19263.88	19264.46	19265.99	19267.28
13.0	19164.96	19166.44	19167.73	19168.84	19169.79	19170.56	19171.17	19171.62	19173.15	19174.43
13.5	19062.74	19064.14	19065.34	19066.35	19067.17	19067.80	19068.25	19068.53	19069.95	19071.09
14.0	18948.57	18949.91	18951.04	18951.95	18952.65	18953.14	18953.44	18953.54	18954.86	18955.88
14.5	18820.59	18821.86	18822.90	18823.72	18824.31	18824.70	18824.87	18824.84	18826.19	18827.23
15.0	18678.91	18680.15	18681.14	18681.89	18682.41	18682.71	18682.79	18682.67	18684.07	18685.15
15.5	18523.48	18524.74	18525.73	18526.47	18526.96	18527.22	18527.25	18527.05	18528.42	18529.45
16.0	18353.01	18354.35	18355.41	18356.20	18356.72	18356.99	18357.01	18356.77	18358.11	18359.07
16.5	18165.89	18167.41	18168.63	18169.56	18170.21	18170.57	18170.64	18170.42	18171.75	18172.65
17.0	17963.00	17964.75	17966.18	17967.31	17968.12	17968.61	17968.78	17968.63	17970.00	17970.89
17.5	17745.10	17747.07	17748.71	17750.01	17750.98	17751.61	17751.88	17751.79	17753.36	17754.41
18.0	17510.92	17513.19	17515.11	17516.66	17517.87	17518.69	17519.14	17519.20	17520.98	17522.20
18.5	17259.15	17261.93	17264.34	17266.38	17268.03	17269.27	17270.08	17270.45	17272.36	17273.64
19.0	16990.67	16993.95	16996.86	16999.37	17001.46	17003.10	17004.26	17004.93	17006.96	17008.30
19.5	16705.98	16709.54	16712.69	16715.40	16717.66	16719.43	16720.69	16721.43	16723.60	16725.05
20.0	16404.88	16408.68	16412.04	16414.93	16417.32	16419.21	16420.56	16421.36	16423.73	16425.35
20.5	16087.46	16091.63	16095.34	16098.56	16101.26	16103.43	16105.05	16106.09	16108.78	16110.67
21.0	15753.29	15757.89	15762.00	15765.61	15768.70	15771.23	15773.19	15774.55	15777.57	15779.77
21.5	15401.34	15406.44	15411.05	15415.15	15418.70	15421.67	15424.05	15425.80	15429.13	15431.61
22.0	15033.51	15039.04	15044.07	15048.58	15052.54	15055.90	15058.65	15060.74	15064.32	15067.02
22.5	14651.07	14656.75	14661.94	14666.61	14670.71	14674.23	14677.12	14679.34	14683.07	14685.90
23.0	14254.87	14260.58	14265.80	14270.51	14274.66	14278.22	14281.14	14283.41	14287.19	14290.07
23.5	13845.86	13851.61	13856.89	13861.66	13865.86	13869.47	13872.43	13874.71	13878.51	13881.37
24.0	13424.97	13430.65	13435.86	13440.56	13444.69	13448.21	13451.08	13453.24	13456.93	13459.66
24.5	12993.92	12999.24	13004.07	13008.38	13012.11	13015.23	13017.69	13019.44	13022.76	13025.11
25.0	12551.33	12556.23	12560.64	12564.51	12567.81	12570.48	12572.49	12573.79	12576.65	12578.53
25.5	12094.80	12099.55	12103.84	12107.59	12110.77	12113.31	12115.17	12116.30	12118.72	12120.14
26.0	11629.15	11633.60	11637.60	11641.08	11644.00	11646.30	11647.91	11648.79	11650.85	11651.90
26.5	11158.13	11161.55	11164.50	11166.96	11168.90	11170.27	11171.05	11171.21	11173.16	11174.23
27.0	10682.61	10684.98	10686.90	10688.35	10689.32	10689.79	10689.75	10689.19	10691.01	10692.06
27.5	10203.59	10205.69	10207.37	10208.62	10209.40	10209.69	10209.47	10208.71	10210.05	10210.60
28.0	9724.33	9726.27	9727.84	9729.00	9729.71	9729.92	9729.60	9728.71	9729.47	9729.42
28.5	9247.34	9248.83	9249.95	9250.66	9250.93	9250.71	9249.96	9248.66	9248.88	9248.29
29.0	8775.78	8776.65	8777.15	8777.25	8776.91	8776.11	8774.81	8772.99	8772.76	8771.79
29.5	8313.73	8313.67	8313.24	8312.43	8311.23	8309.62	8307.60	8305.16	8304.80	8303.81
30.0	7860.89	7860.06	7858.85	7857.28	7855.37	7853.11	7850.51	7847.59	7847.15	7846.18
30.5	7417.29	7416.43	7415.25	7413.75	7411.90	7409.72	7407.19	7404.32	7403.54	7402.23
31.0	6986.09	6985.31	6984.24	6982.87	6981.18	6979.15	6976.76	6974.00	6972.93	6971.29
31.5	6570.49	6569.16	6567.54	6565.64	6563.45	6560.97	6558.20	6555.13	6554.02	6552.45
32.0	6170.52	6168.69	6166.57	6164.18	6161.54	6158.65	6155.53	6152.21	6151.17	6149.76
32.5	5787.05	5785.38	5783.45	5781.26	5778.84	5776.18	5773.30	5770.21	5769.26	5767.94
33.0	5420.73	5419.35	5417.74	5415.89	5413.82	5411.51	5408.98	5406.22	5405.34	5404.07
33.5	5072.02	5070.63	5069.03	5067.23	5065.23	5063.01	5060.57	5057.93	5057.02	5055.74
34.0	4742.42	4740.97	4739.35	4737.55	4735.55	4733.37	4730.99	4728.42	4727.44	4726.11
34.5	4433.39	4431.97	4430.39	4428.65	4426.72	4424.62	4422.33	4419.86	4418.75	4417.33
35.0	4145.49	4144.15	4142.66	4141.02	4139.20	4137.22	4135.05	4132.70	4131.58	4130.15
35.5	3882.97	3881.81	3880.52	3879.09	3877.51	3875.75	3873.81	3871.66	3870.95	3869.89
36.0	3636.24	3635.22	3634.09	3632.84	3631.44	3629.87	3628.11	3626.15	3625.73	3624.94
36.5	3393.02	3391.88	3390.65	3389.30	3387.83	3386.22	3384.45	3382.52	3381.58	3380.36
37.0	3165.72	3164.45	3163.09	3161.63	3160.06	3158.37	3156.57	3154.63	3153.10	3151.39
37.5	2965.69	2964.48	2963.17	2961.78	2960.28	2958.68	2956.96	2955.12	2953.54	2951.80

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38.0	2783.89	2782.77	2781.57	2780.28	2778.90	2777.41	2775.80	2774.07	2772.60	2770.97
38.5	2614.85	2613.78	2612.64	2611.41	2610.09	2608.67	2607.14	2605.50	2604.11	2602.56
39.0	2459.20	2458.18	2457.08	2455.90	2454.62	2453.26	2451.79	2450.23	2448.92	2447.47
39.5	2316.19	2315.17	2314.08	2312.91	2311.66	2310.33	2308.92	2307.41	2306.17	2304.80
40.0	2184.61	2183.59	2182.51	2181.36	2180.13	2178.84	2177.47	2176.03	2174.83	2173.53
40.5	2063.23	2062.26	2061.21	2060.10	2058.92	2057.68	2056.36	2054.97	2053.80	2052.53
41.0	1951.39	1950.48	1949.50	1948.46	1947.35	1946.16	1944.91	1943.58	1942.44	1941.20
41.5	1848.03	1847.27	1846.44	1845.55	1844.59	1843.55	1842.43	1841.22	1840.11	1838.89
42.0	1753.06	1752.38	1751.63	1750.81	1749.91	1748.94	1747.89	1746.76	1745.69	1744.52
42.5	1667.11	1666.11	1665.02	1663.86	1662.63	1661.35	1660.03	1658.69	1657.72	1656.71
43.0	1586.99	1585.83	1584.57	1583.22	1581.82	1580.38	1578.92	1577.47	1576.54	1575.63
43.5	1508.78	1508.34	1507.84	1507.27	1506.62	1505.88	1505.05	1504.13	1503.04	1501.84
44.0	1435.33	1435.60	1435.84	1436.02	1436.11	1436.06	1435.85	1435.43	1434.23	1432.78
44.5	1368.77	1368.82	1368.82	1368.77	1368.62	1368.36	1367.96	1367.40	1366.42	1365.25
45.0	1307.31	1306.98	1306.57	1306.09	1305.53	1304.89	1304.16	1303.33	1302.61	1301.77
45.5	1249.96	1249.63	1249.23	1248.73	1248.16	1247.50	1246.76	1245.93	1245.24	1244.45
46.0	1196.46	1196.22	1195.90	1195.49	1195.00	1194.41	1193.73	1192.95	1192.25	1191.43
46.5	1146.28	1146.09	1145.82	1145.47	1145.02	1144.47	1143.83	1143.09	1142.41	1141.60
47.0	1099.13	1099.00	1098.79	1098.49	1098.10	1097.61	1097.02	1096.33	1095.65	1094.85
47.5	1054.55	1054.52	1054.40	1054.19	1053.88	1053.46	1052.94	1052.30	1051.62	1050.81
48.0	1012.45	1012.50	1012.46	1012.33	1012.09	1011.74	1011.27	1010.68	1010.00	1009.17
48.5	972.67	972.75	972.72	972.60	972.37	972.03	971.56	970.97	970.30	969.49
49.0	934.99	935.07	935.05	934.92	934.69	934.34	933.87	933.28	932.63	931.84
49.5	899.11	899.23	899.24	899.15	898.95	898.63	898.20	897.63	896.99	896.22
50.0	865.03	865.18	865.23	865.18	865.01	864.73	864.32	863.79	863.16	862.40
50.5	832.75	832.92	832.98	832.93	832.77	832.49	832.09	831.56	830.95	830.20
51.0	801.93	802.12	802.20	802.17	802.02	801.75	801.35	800.83	800.24	799.50
51.5	772.21	772.46	772.60	772.62	772.53	772.31	771.96	771.48	770.89	770.16
52.0	743.64	743.95	744.14	744.22	744.18	744.01	743.71	743.27	742.70	741.98
52.5	716.17	716.49	716.70	716.79	716.77	716.61	716.33	715.90	715.35	714.64
53.0	689.75	690.07	690.29	690.39	690.37	690.22	689.94	689.52	688.99	688.31
53.5	664.39	664.74	664.97	665.08	665.08	664.95	664.69	664.29	663.78	663.12
54.0	639.92	640.28	640.53	640.66	640.67	640.56	640.32	639.94	639.45	638.82
54.5	616.12	616.50	616.76	616.91	616.94	616.84	616.61	616.25	615.77	615.15
55.0	593.07	593.46	593.73	593.89	593.93	593.84	593.63	593.28	592.81	592.20
55.5	570.81	571.18	571.45	571.61	571.65	571.57	571.36	571.02	570.58	570.00
56.0	549.20	549.57	549.82	549.97	550.01	549.93	549.72	549.39	548.99	548.46
56.5	528.12	528.47	528.72	528.86	528.89	528.81	528.61	528.30	527.93	527.42
57.0	507.63	507.96	508.20	508.33	508.36	508.28	508.09	507.78	507.45	506.99
57.5	487.77	488.09	488.31	488.44	488.46	488.39	488.20	487.91	487.63	487.23
58.0	468.50	468.79	468.99	469.10	469.11	469.03	468.86	468.58	468.36	468.02
58.5	449.77	450.01	450.16	450.23	450.21	450.11	449.91	449.63	449.48	449.22
59.0	431.60	431.78	431.88	431.91	431.85	431.72	431.51	431.22	431.14	430.96
59.5	413.95	414.10	414.17	414.17	414.09	413.95	413.74	413.46	413.45	413.35
60.0	396.86	396.98	397.02	397.01	396.92	396.78	396.57	396.31	396.37	396.34
60.5	380.30	380.40	380.44	380.41	380.33	380.19	380.00	379.76	379.87	379.92
61.0	364.34	364.43	364.45	364.42	364.33	364.20	364.03	363.81	364.00	364.12
61.5	349.04	349.10	349.11	349.07	348.99	348.87	348.72	348.53	348.83	349.07
62.0	334.35	334.39	334.38	334.32	334.23	334.11	333.97	333.80	334.20	334.55
62.5	320.32	320.33	320.29	320.21	320.09	319.94	319.77	319.59	320.03	320.41
63.0	306.72	306.69	306.60	306.48	306.32	306.13	305.93	305.73	306.19	306.62
63.5	293.20	293.08	292.92	292.73	292.52	292.29	292.07	291.86	292.41	292.95
64.0	280.14	279.95	279.72	279.47	279.21	278.95	278.72	278.51	279.15	279.79
64.5	267.85	267.64	267.40	267.14	266.87	266.61	266.38	266.19	266.86	267.54
65.0	256.16	255.96	255.73	255.48	255.23	254.99	254.78	254.60	255.28	255.97
65.5	245.05	244.86	244.65	244.42	244.20	243.98	243.79	243.64	244.33	245.01

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66.0	234.43	234.28	234.10	233.91	233.72	233.54	233.39	233.27	233.95	234.63
66.5	224.20	224.10	223.99	223.87	223.74	223.63	223.54	223.47	224.13	224.79
67.0	214.39	214.35	214.30	214.24	214.18	214.13	214.09	214.07	214.73	215.37
67.5	205.04	205.01	204.97	204.94	204.90	204.87	204.87	204.88	205.56	206.23
68.0	196.05	196.03	196.00	195.97	195.94	195.94	195.95	195.98	196.69	197.40
68.5	187.37	187.36	187.35	187.34	187.34	187.35	187.38	187.43	188.13	188.82
69.0	178.93	178.94	178.96	178.97	178.99	179.03	179.08	179.15	179.83	180.50
69.5	170.60	170.63	170.67	170.72	170.78	170.85	170.93	171.04	171.74	172.43
70.0	162.55	162.60	162.66	162.73	162.81	162.91	163.03	163.17	163.89	164.59
70.5	154.98	155.03	155.08	155.15	155.22	155.31	155.42	155.55	156.26	156.95
71.0	147.68	147.72	147.77	147.82	147.89	147.97	148.06	148.17	148.86	149.54
71.5	140.47	140.52	140.58	140.64	140.71	140.80	140.90	141.01	141.69	142.36
72.0	133.46	133.53	133.60	133.68	133.76	133.86	133.97	134.09	134.76	135.40
72.5	126.71	126.79	126.88	126.98	127.08	127.19	127.31	127.44	128.06	128.65
73.0	120.16	120.27	120.39	120.51	120.63	120.76	120.89	121.03	121.59	122.13
73.5	113.78	113.92	114.07	114.23	114.38	114.54	114.70	114.86	115.39	115.88
74.0	107.61	107.78	107.95	108.13	108.31	108.49	108.67	108.85	109.35	109.81
74.5	101.71	101.87	102.04	102.21	102.38	102.56	102.73	102.90	103.37	103.82
75.0	96.01	96.15	96.30	96.45	96.61	96.76	96.91	97.07	97.53	97.96
75.5	90.45	90.58	90.72	90.85	90.99	91.13	91.27	91.41	91.83	92.22
76.0	85.02	85.14	85.27	85.40	85.52	85.65	85.78	85.90	86.28	86.63
76.5	79.68	79.80	79.93	80.06	80.18	80.31	80.43	80.55	80.89	81.20
77.0	74.48	74.60	74.72	74.85	74.97	75.10	75.22	75.33	75.63	75.90
77.5	69.46	69.56	69.66	69.76	69.86	69.97	70.07	70.17	70.43	70.67
78.0	64.60	64.68	64.76	64.85	64.94	65.02	65.11	65.20	65.42	65.63
78.5	59.90	59.99	60.09	60.18	60.28	60.38	60.47	60.56	60.75	60.92
79.0	55.39	55.49	55.60	55.71	55.83	55.94	56.04	56.14	56.30	56.44
79.5	51.09	51.20	51.31	51.42	51.54	51.66	51.76	51.86	52.01	52.14
80.0	46.97	47.07	47.17	47.28	47.39	47.50	47.61	47.71	47.85	47.98
80.5	43.02	43.09	43.18	43.27	43.36	43.45	43.53	43.61	43.75	43.88
81.0	39.16	39.21	39.26	39.33	39.39	39.46	39.52	39.58	39.71	39.83
81.5	35.32	35.34	35.38	35.41	35.45	35.49	35.54	35.58	35.71	35.83
82.0	31.50	31.50	31.51	31.52	31.54	31.55	31.57	31.60	31.72	31.84
82.5	27.66	27.64	27.62	27.60	27.59	27.58	27.58	27.58	27.70	27.81
83.0	23.89	23.84	23.79	23.74	23.70	23.67	23.64	23.62	23.72	23.83
83.5	20.24	20.16	20.08	20.01	19.94	19.87	19.82	19.77	19.86	19.95
84.0	16.73	16.62	16.52	16.42	16.32	16.23	16.15	16.09	16.16	16.23
84.5	13.32	13.21	13.09	12.98	12.87	12.77	12.68	12.60	12.65	12.72
85.0	10.19	10.08	9.96	9.85	9.74	9.63	9.54	9.46	9.49	9.54
85.5	7.48	7.38	7.28	7.18	7.08	6.99	6.90	6.82	6.82	6.83
86.0	5.21	5.14	5.06	4.99	4.91	4.83	4.76	4.68	4.66	4.64
86.5	3.47	3.42	3.37	3.32	3.26	3.21	3.16	3.10	3.08	3.05
87.0	2.25	2.23	2.20	2.17	2.14	2.11	2.08	2.05	2.03	2.01
87.5	1.70	1.69	1.68	1.67	1.65	1.64	1.63	1.61	1.60	1.58
88.0	1.50	1.50	1.50	1.50	1.50	1.50	1.49	1.49	1.48	1.48
88.5	1.39	1.39	1.39	1.39	1.40	1.40	1.40	1.40	1.40	1.39
89.0	1.37	1.37	1.37	1.37	1.38	1.38	1.38	1.38	1.38	1.38
89.5	1.36	1.36	1.36	1.36	1.36	1.37	1.37	1.37	1.37	1.37
90.0	1.39	1.39	1.39	1.39	1.38	1.38	1.38	1.38	1.38	1.38

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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19827.70	19827.76	19827.84	19827.93	19828.03	19828.14	19828.27	19828.22	19828.18	19828.15
1.0	19829.50	19829.61	19829.73	19829.87	19830.02	19830.19	19830.37	19830.26	19830.15	19830.05

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1.5	19832.71	19832.82	19832.95	19833.08	19833.22	19833.36	19833.51	19833.28	19833.06	19832.84
2.0	19836.06	19836.18	19836.31	19836.43	19836.55	19836.65	19836.75	19836.42	19836.09	19835.76
2.5	19838.41	19838.58	19838.75	19838.91	19839.05	19839.18	19839.27	19838.98	19838.66	19838.32
3.0	19839.77	19840.04	19840.29	19840.51	19840.72	19840.88	19841.00	19840.70	19840.34	19839.95
3.5	19840.00	19840.40	19840.79	19841.13	19841.43	19841.67	19841.85	19841.31	19840.72	19840.08
4.0	19838.50	19839.07	19839.60	19840.08	19840.49	19840.81	19841.05	19840.18	19839.24	19838.25
4.5	19834.66	19835.41	19836.09	19836.70	19837.22	19837.63	19837.91	19836.64	19835.28	19833.86
5.0	19828.47	19829.34	19830.14	19830.84	19831.42	19831.86	19832.14	19830.45	19828.66	19826.80
5.5	19819.55	19820.45	19821.25	19821.92	19822.44	19822.79	19822.94	19820.90	19818.75	19816.53
6.0	19808.34	19809.21	19809.96	19810.54	19810.94	19811.13	19811.07	19808.73	19806.29	19803.75
6.5	19795.41	19796.27	19796.95	19797.43	19797.67	19797.66	19797.34	19794.78	19792.08	19789.27
7.0	19779.96	19780.77	19781.36	19781.70	19781.75	19781.49	19780.88	19778.13	19775.22	19772.18
7.5	19761.75	19762.44	19762.88	19763.01	19762.82	19762.26	19761.30	19758.36	19755.25	19751.99
8.0	19739.67	19740.26	19740.55	19740.50	19740.07	19739.24	19737.96	19734.89	19731.63	19728.21
8.5	19712.65	19713.22	19713.45	19713.32	19712.78	19711.78	19710.30	19707.23	19703.93	19700.45
9.0	19680.38	19680.95	19681.18	19681.00	19680.39	19679.30	19677.68	19674.67	19671.40	19667.91
9.5	19642.27	19642.88	19643.12	19642.94	19642.29	19641.13	19639.41	19636.50	19633.28	19629.83
10.0	19598.01	19598.65	19598.91	19598.73	19598.05	19596.84	19595.03	19592.25	19589.13	19585.73
10.5	19547.27	19547.92	19548.17	19547.95	19547.22	19545.91	19543.97	19541.39	19538.42	19535.12
11.0	19489.52	19490.16	19490.38	19490.12	19489.31	19487.90	19485.81	19483.41	19480.56	19477.34
11.5	19424.49	19425.10	19425.28	19424.95	19424.06	19422.53	19420.30	19417.96	19415.13	19411.89
12.0	19351.07	19351.64	19351.76	19351.36	19350.36	19348.70	19346.30	19343.94	19341.07	19337.77
12.5	19268.25	19268.81	19268.90	19268.43	19267.32	19265.50	19262.89	19260.48	19257.52	19254.11
13.0	19175.37	19175.89	19175.91	19175.32	19174.05	19172.00	19169.10	19166.64	19163.59	19160.04
13.5	19071.88	19072.21	19072.00	19071.14	19069.56	19067.15	19063.82	19061.33	19058.21	19054.56
14.0	18956.51	18956.64	18956.20	18955.06	18953.14	18950.34	18946.55	18944.10	18940.96	18937.25
14.5	18827.86	18827.95	18827.40	18826.11	18823.95	18820.83	18816.63	18814.39	18811.35	18807.65
15.0	18685.78	18685.84	18685.21	18683.78	18681.41	18677.99	18673.40	18671.41	18668.51	18664.84
15.5	18530.00	18529.96	18529.19	18527.57	18524.97	18521.28	18516.36	18514.48	18511.63	18507.96
16.0	18359.53	18359.34	18358.39	18356.55	18353.69	18349.68	18344.38	18342.70	18339.98	18336.39
16.5	18172.98	18172.63	18171.44	18169.28	18166.02	18161.52	18155.66	18154.46	18152.13	18148.82
17.0	17971.17	17970.68	17969.27	17966.82	17963.17	17958.19	17951.73	17951.16	17949.34	17946.43
17.5	17754.77	17754.31	17752.86	17750.27	17746.38	17741.05	17734.13	17734.31	17733.08	17730.61
18.0	17522.68	17522.27	17520.80	17518.10	17514.02	17508.38	17501.03	17502.00	17501.39	17499.41
18.5	17274.12	17273.64	17272.04	17269.14	17264.79	17258.83	17251.08	17252.74	17252.74	17251.26
19.0	17008.77	17008.23	17006.50	17003.42	16998.83	16992.57	16984.47	16986.78	16987.35	16986.36
19.5	16725.60	16725.07	16723.31	16720.14	16715.39	16708.89	16700.48	16703.36	16704.40	16703.80
20.0	16426.03	16425.59	16423.87	16420.67	16415.82	16409.16	16400.49	16403.96	16405.50	16405.31
20.5	16111.59	16111.34	16109.74	16106.60	16101.75	16094.99	16086.13	16090.38	16092.57	16092.90
21.0	15780.95	15780.92	15779.49	15776.46	15771.65	15764.85	15755.89	15760.94	15763.81	15764.70
21.5	15433.03	15433.21	15431.94	15429.04	15424.32	15417.58	15408.63	15414.32	15417.77	15419.16
22.0	15068.64	15068.99	15067.86	15065.08	15060.44	15053.75	15044.83	15051.25	15055.36	15057.34
22.5	14687.63	14688.07	14687.03	14684.29	14679.69	14673.00	14664.05	14671.56	14676.63	14679.46
23.0	14291.83	14292.28	14291.22	14288.45	14283.76	14276.97	14267.86	14276.57	14282.70	14286.45
23.5	13883.09	13883.44	13882.23	13879.24	13874.28	13867.12	13857.58	13867.42	13874.56	13879.20
24.0	13461.20	13461.33	13459.85	13456.54	13451.19	13443.59	13433.51	13444.44	13452.54	13458.05
24.5	13026.26	13026.00	13024.12	13020.39	13014.60	13006.54	12996.00	13007.88	13016.88	13023.23
25.0	12579.22	12578.51	12576.17	12571.99	12565.76	12557.26	12546.29	12559.03	12568.85	12575.99
25.5	12120.35	12119.14	12116.31	12111.65	12104.95	12096.02	12084.65	12098.15	12108.75	12116.66
26.0	11651.76	11650.21	11647.06	11642.10	11635.14	11625.98	11614.40	11628.51	11639.73	11648.27
26.5	11174.20	11172.85	11169.96	11165.33	11158.73	11149.95	11138.77	11153.13	11164.56	11173.29
27.0	10692.10	10690.91	10688.26	10683.90	10677.63	10669.21	10658.40	10673.09	10684.80	10693.79
27.5	10210.14	10208.45	10205.31	10200.49	10193.79	10184.97	10173.82	10189.53	10202.27	10212.28
28.0	9728.33	9726.00	9722.24	9716.82	9709.55	9700.23	9688.64	9705.27	9718.97	9729.96
28.5	9246.70	9243.91	9239.73	9233.96	9226.40	9216.86	9205.14	9221.76	9235.56	9246.75
29.0	8769.87	8766.81	8762.43	8756.53	8748.93	8739.43	8727.85	8744.23	8757.89	8769.04

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29.5	8301.99	8299.15	8295.08	8289.58	8282.48	8273.56	8262.63	8279.07	8292.81	8304.06
30.0	7844.48	7841.85	7838.09	7833.00	7826.38	7818.03	7807.75	7824.17	7837.93	7849.22
30.5	7400.18	7397.21	7393.14	7387.77	7380.93	7372.43	7362.08	7378.19	7391.79	7403.07
31.0	6968.91	6965.63	6961.26	6955.65	6948.61	6939.99	6929.61	6945.17	6958.40	6969.48
31.5	6550.23	6547.20	6543.19	6538.02	6531.53	6523.55	6513.91	6528.62	6541.12	6551.57
32.0	6147.81	6145.13	6141.57	6136.95	6131.09	6123.84	6115.01	6128.79	6140.44	6150.15
32.5	5766.09	5763.53	5760.10	5755.64	5749.98	5742.96	5734.42	5747.41	5758.37	5767.49
33.0	5402.26	5399.75	5396.38	5392.00	5386.45	5379.57	5371.21	5383.46	5393.79	5402.36
33.5	5053.94	5051.48	5048.21	5043.98	5038.64	5032.05	5024.06	5035.59	5045.32	5053.38
34.0	4724.31	4721.89	4718.71	4714.63	4709.53	4703.25	4695.68	4706.58	4715.78	4723.43
34.5	4415.47	4413.05	4409.95	4406.04	4401.21	4395.33	4388.29	4398.70	4407.57	4415.02
35.0	4128.30	4125.92	4122.89	4119.11	4114.46	4108.83	4102.10	4112.04	4120.59	4127.85
35.5	3868.34	3866.17	3863.24	3859.40	3854.54	3848.51	3841.18	3850.52	3858.58	3865.46
36.0	3623.62	3621.62	3618.79	3614.98	3610.05	3603.84	3596.20	3604.90	3612.40	3618.83
36.5	3378.75	3376.65	3373.96	3370.56	3366.38	3361.29	3355.20	3363.25	3370.20	3376.16
37.0	3149.44	3147.21	3144.64	3141.70	3138.34	3134.49	3130.13	3137.53	3143.92	3149.40
37.5	2949.85	2947.66	2945.20	2942.42	2939.30	2935.78	2931.85	2938.61	2944.45	2949.47
38.0	2769.12	2767.04	2764.68	2762.00	2758.97	2755.55	2751.70	2757.81	2763.11	2767.67
38.5	2600.82	2598.86	2596.64	2594.12	2591.28	2588.07	2584.47	2589.91	2594.63	2598.69
39.0	2445.85	2444.02	2441.95	2439.60	2436.96	2433.98	2430.62	2435.47	2439.66	2443.28
39.5	2303.28	2301.58	2299.67	2297.52	2295.10	2292.38	2289.33	2293.77	2297.63	2300.97
40.0	2172.10	2170.51	2168.74	2166.75	2164.53	2162.04	2159.26	2163.42	2167.03	2170.15
40.5	2051.15	2049.62	2047.92	2046.02	2043.92	2041.57	2038.96	2042.91	2046.34	2049.31
41.0	1939.84	1938.34	1936.69	1934.85	1932.82	1930.56	1928.07	1931.78	1935.00	1937.79
41.5	1837.55	1836.06	1834.41	1832.57	1830.54	1828.29	1825.81	1829.10	1831.96	1834.43
42.0	1743.23	1741.80	1740.21	1738.45	1736.51	1734.36	1731.99	1734.77	1737.18	1739.24
42.5	1655.66	1654.55	1653.35	1652.06	1650.65	1649.10	1647.41	1649.44	1651.15	1652.57
43.0	1574.72	1573.79	1572.83	1571.82	1570.75	1569.59	1568.34	1569.92	1571.20	1572.22
43.5	1500.53	1499.09	1497.53	1495.83	1494.00	1492.03	1489.92	1492.24	1494.22	1495.88
44.0	1431.11	1429.20	1427.06	1424.70	1422.12	1419.32	1416.30	1419.33	1421.96	1424.23
44.5	1363.88	1362.30	1360.51	1358.50	1356.27	1353.80	1351.10	1353.46	1355.48	1357.18
45.0	1300.81	1299.68	1298.39	1296.91	1295.23	1293.31	1291.15	1292.62	1293.81	1294.75
45.5	1243.54	1242.47	1241.25	1239.84	1238.23	1236.40	1234.33	1235.54	1236.50	1237.21
46.0	1190.48	1189.38	1188.12	1186.68	1185.04	1183.19	1181.11	1182.22	1183.08	1183.70
46.5	1140.67	1139.59	1138.34	1136.93	1135.32	1133.51	1131.47	1132.40	1133.09	1133.55
47.0	1093.92	1092.85	1091.61	1090.20	1088.61	1086.82	1084.81	1085.57	1086.09	1086.40
47.5	1049.85	1048.74	1047.46	1046.01	1044.36	1042.51	1040.45	1041.06	1041.46	1041.65
48.0	1008.19	1007.05	1005.73	1004.23	1002.53	1000.63	998.51	999.01	999.29	999.37
48.5	968.53	967.40	966.11	964.63	962.96	961.09	959.01	959.40	959.58	959.57
49.0	930.90	929.81	928.55	927.11	925.48	923.66	921.64	921.93	922.02	921.91
49.5	895.29	894.20	892.95	891.52	889.91	888.09	886.08	886.28	886.29	886.10
50.0	861.48	860.40	859.16	857.73	856.13	854.32	852.31	852.43	852.35	852.08
50.5	829.31	828.25	827.03	825.64	824.06	822.30	820.33	820.34	820.14	819.76
51.0	798.62	797.58	796.38	795.01	793.47	791.73	789.80	789.69	789.39	788.91
51.5	769.28	768.24	767.03	765.64	764.08	762.32	760.36	760.17	759.80	759.25
52.0	741.10	740.05	738.83	737.42	735.83	734.05	732.06	731.81	731.39	730.80
52.5	713.78	712.75	711.54	710.15	708.57	706.79	704.80	704.53	704.08	703.47
53.0	687.47	686.47	685.28	683.92	682.36	680.60	678.64	678.35	677.88	677.24
53.5	662.31	661.33	660.18	658.85	657.34	655.63	653.71	653.37	652.85	652.18
54.0	638.03	637.08	635.96	634.66	633.18	631.51	629.64	629.25	628.69	627.99
54.5	614.36	613.42	612.31	611.01	609.54	607.87	606.00	605.60	605.04	604.33
55.0	591.43	590.49	589.39	588.10	586.63	584.96	583.09	582.70	582.14	581.43
55.5	569.27	568.37	567.31	566.07	564.64	563.01	561.18	560.77	560.19	559.47
56.0	547.77	546.92	545.91	544.72	543.34	541.77	540.00	539.56	538.97	538.23
56.5	526.78	525.97	525.01	523.87	522.54	521.03	519.31	518.86	518.25	517.50
57.0	506.39	505.64	504.73	503.64	502.38	500.91	499.25	498.79	498.17	497.41

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CANDELA TABULATION - (Cont.)

57.5	486.69	486.01	485.16	484.14	482.93	481.53	479.91	479.45	478.82	478.05
58.0	467.56	466.94	466.17	465.23	464.09	462.75	461.20	460.73	460.09	459.30
58.5	448.84	448.31	447.64	446.79	445.75	444.50	443.04	442.54	441.86	441.04
59.0	430.66	430.24	429.66	428.91	427.97	426.82	425.44	424.92	424.21	423.35
59.5	413.14	412.80	412.32	411.66	410.80	409.73	408.42	407.89	407.17	406.28
60.0	396.22	395.97	395.57	394.99	394.21	393.21	391.96	391.44	390.72	389.83
60.5	379.86	379.68	379.35	378.84	378.12	377.18	375.97	375.52	374.85	374.00
61.0	364.14	364.04	363.78	363.34	362.68	361.79	360.61	360.22	359.59	358.77
61.5	349.21	349.22	349.07	348.72	348.14	347.29	346.14	345.71	345.03	344.14
62.0	334.81	334.93	334.88	334.61	334.10	333.29	332.16	331.71	330.98	330.02
62.5	320.71	320.87	320.86	320.63	320.15	319.36	318.24	317.87	317.20	316.30
63.0	306.96	307.17	307.20	307.03	306.60	305.88	304.81	304.53	303.94	303.10
63.5	293.41	293.76	293.96	293.95	293.69	293.15	292.26	292.01	291.44	290.60
64.0	280.38	280.87	281.22	281.37	281.29	280.93	280.23	279.98	279.41	278.56
64.5	268.17	268.71	269.11	269.33	269.31	269.01	268.39	268.14	267.57	266.73
65.0	256.62	257.17	257.59	257.82	257.83	257.56	256.96	256.71	256.15	255.33
65.5	245.66	246.22	246.65	246.90	246.92	246.67	246.11	245.87	245.33	244.53
66.0	235.27	235.82	236.23	236.48	236.50	236.26	235.71	235.49	234.98	234.22
66.5	225.39	225.91	226.29	226.49	226.48	226.20	225.62	225.46	225.01	224.33
67.0	215.95	216.44	216.79	216.97	216.92	216.61	216.00	215.90	215.51	214.89
67.5	206.85	207.37	207.75	207.96	207.94	207.66	207.08	206.99	206.61	206.00
68.0	198.04	198.60	199.01	199.25	199.27	199.02	198.48	198.39	198.03	197.43
68.5	189.45	189.98	190.38	190.60	190.60	190.33	189.77	189.76	189.46	188.93
69.0	181.11	181.62	181.99	182.18	182.16	181.88	181.30	181.35	181.12	180.66
69.5	173.05	173.58	173.97	174.18	174.17	173.90	173.33	173.41	173.21	172.77
70.0	165.23	165.78	166.18	166.41	166.42	166.16	165.61	165.71	165.53	165.12
70.5	157.59	158.12	158.52	158.73	158.73	158.47	157.91	158.05	157.92	157.56
71.0	150.15	150.67	151.05	151.25	151.23	150.96	150.40	150.59	150.51	150.19
71.5	142.96	143.47	143.84	144.04	144.03	143.77	143.22	143.44	143.38	143.10
72.0	135.98	136.47	136.83	137.03	137.02	136.77	136.24	136.47	136.44	136.18
72.5	129.19	129.63	129.96	130.12	130.09	129.84	129.32	129.56	129.55	129.33
73.0	122.62	123.01	123.29	123.42	123.37	123.11	122.60	122.84	122.84	122.66
73.5	116.33	116.68	116.92	117.02	116.95	116.67	116.18	116.42	116.45	116.29
74.0	110.22	110.55	110.76	110.84	110.75	110.48	109.99	110.24	110.29	110.17
74.5	104.22	104.54	104.75	104.84	104.77	104.53	104.09	104.33	104.38	104.27
75.0	98.34	98.65	98.87	98.97	98.93	98.72	98.32	98.56	98.61	98.50
75.5	92.57	92.86	93.06	93.15	93.11	92.91	92.55	92.78	92.83	92.73
76.0	86.94	87.19	87.36	87.44	87.39	87.21	86.87	87.09	87.15	87.08
76.5	81.47	81.69	81.84	81.89	81.84	81.66	81.34	81.57	81.65	81.60
77.0	76.14	76.33	76.45	76.48	76.43	76.25	75.96	76.19	76.29	76.28
77.5	70.88	71.05	71.16	71.19	71.14	70.99	70.73	70.97	71.09	71.10
78.0	65.82	65.96	66.06	66.09	66.04	65.91	65.68	65.92	66.05	66.08
78.5	61.07	61.17	61.23	61.23	61.16	61.01	60.78	61.01	61.15	61.21
79.0	56.55	56.62	56.64	56.61	56.52	56.35	56.10	56.34	56.49	56.56
79.5	52.24	52.31	52.32	52.28	52.18	52.01	51.77	52.01	52.17	52.26
80.0	48.08	48.14	48.16	48.13	48.03	47.87	47.62	47.87	48.04	48.14
80.5	43.98	44.04	44.06	44.03	43.95	43.79	43.56	43.81	43.98	44.08
81.0	39.93	40.00	40.03	40.01	39.94	39.80	39.59	39.83	39.99	40.09
81.5	35.93	36.00	36.04	36.03	35.97	35.85	35.66	35.89	36.06	36.16
82.0	31.94	32.02	32.07	32.07	32.03	31.93	31.76	31.99	32.15	32.25
82.5	27.91	27.99	28.05	28.06	28.04	27.96	27.83	28.05	28.22	28.33
83.0	23.92	24.01	24.07	24.10	24.10	24.05	23.95	24.17	24.33	24.44
83.5	20.04	20.12	20.19	20.23	20.25	20.23	20.17	20.36	20.51	20.61
84.0	16.31	16.39	16.46	16.52	16.55	16.56	16.53	16.69	16.81	16.89
84.5	12.79	12.86	12.93	12.99	13.04	13.07	13.08	13.20	13.30	13.36
85.0	9.59	9.65	9.71	9.76	9.81	9.84	9.86	9.95	10.01	10.04

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CANDELA TABULATION - (Cont.)

85.5	6.85	6.86	6.88	6.89	6.90	6.90	6.88	6.89	6.88	6.86
86.0	4.62	4.59	4.57	4.54	4.51	4.46	4.41	4.36	4.30	4.24
86.5	3.02	3.00	2.97	2.94	2.91	2.87	2.83	2.79	2.74	2.69
87.0	1.99	1.97	1.95	1.93	1.91	1.89	1.87	1.86	1.84	1.82
87.5	1.57	1.56	1.54	1.53	1.51	1.50	1.48	1.48	1.47	1.46
88.0	1.47	1.46	1.45	1.44	1.43	1.42	1.41	1.41	1.40	1.40
88.5	1.39	1.38	1.38	1.37	1.36	1.36	1.35	1.35	1.35	1.35
89.0	1.38	1.37	1.37	1.37	1.36	1.36	1.35	1.35	1.35	1.36
89.5	1.37	1.37	1.37	1.36	1.36	1.36	1.35	1.35	1.36	1.36
90.0	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38

**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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19828.11	19828.08	19828.04	19828.01	19827.98	19827.95	19827.90	19827.85	19827.80	19827.76
1.0	19829.95	19829.86	19829.77	19829.69	19829.62	19829.55	19829.51	19829.48	19829.46	19829.45
1.5	19832.64	19832.45	19832.28	19832.13	19832.01	19831.92	19831.98	19832.07	19832.19	19832.33
2.0	19835.45	19835.16	19834.90	19834.67	19834.49	19834.35	19834.51	19834.72	19834.97	19835.26
2.5	19837.98	19837.64	19837.33	19837.04	19836.79	19836.59	19836.73	19836.92	19837.16	19837.43
3.0	19839.53	19839.10	19838.68	19838.28	19837.91	19837.59	19837.65	19837.77	19837.93	19838.13
3.5	19839.41	19838.73	19838.07	19837.43	19836.83	19836.30	19836.27	19836.30	19836.39	19836.53
4.0	19837.24	19836.22	19835.22	19834.26	19833.36	19832.54	19832.34	19832.23	19832.19	19832.22
4.5	19832.41	19830.95	19829.52	19828.13	19826.82	19825.61	19825.12	19824.73	19824.45	19824.25
5.0	19824.90	19822.99	19821.11	19819.29	19817.55	19815.94	19815.12	19814.44	19813.88	19813.43
5.5	19814.27	19812.01	19809.78	19807.61	19805.55	19803.62	19802.54	19801.62	19800.83	19800.17
6.0	19801.18	19798.60	19796.05	19793.57	19791.20	19788.97	19787.65	19786.50	19785.50	19784.63
6.5	19786.41	19783.52	19780.66	19777.87	19775.17	19772.63	19771.04	19769.62	19768.36	19767.25
7.0	19769.06	19765.90	19762.76	19759.67	19756.69	19753.85	19752.01	19750.35	19748.86	19747.52
7.5	19748.64	19745.25	19741.88	19738.55	19735.33	19732.26	19730.22	19728.38	19726.72	19725.22
8.0	19724.69	19721.13	19717.56	19714.05	19710.64	19707.40	19705.24	19703.28	19701.51	19699.92
8.5	19696.85	19693.19	19689.52	19685.89	19682.38	19679.02	19676.86	19674.90	19673.13	19671.55
9.0	19664.29	19660.57	19656.84	19653.15	19649.56	19646.13	19643.99	19642.06	19640.33	19638.79
9.5	19626.21	19622.47	19618.71	19614.96	19611.30	19607.81	19605.67	19603.74	19602.01	19600.45
10.0	19582.13	19578.40	19574.61	19570.82	19567.10	19563.54	19561.36	19559.40	19557.61	19556.00
10.5	19531.57	19527.85	19524.03	19520.18	19516.38	19512.70	19510.41	19508.32	19506.40	19504.65
11.0	19473.82	19470.09	19466.22	19462.30	19458.40	19454.60	19452.19	19449.96	19447.90	19446.00
11.5	19408.34	19404.55	19400.61	19396.59	19392.60	19388.70	19386.19	19383.87	19381.72	19379.73
12.0	19334.14	19330.25	19326.20	19322.07	19317.96	19313.94	19311.40	19309.04	19306.86	19304.85
12.5	19250.33	19246.28	19242.06	19237.77	19233.48	19229.32	19226.83	19224.55	19222.45	19220.54
13.0	19156.11	19151.88	19147.48	19143.00	19138.54	19134.23	19131.82	19129.63	19127.66	19125.88
13.5	19050.50	19046.14	19041.58	19036.96	19032.37	19027.93	19025.58	19023.48	19021.61	19019.94
14.0	18933.09	18928.59	18923.89	18919.10	18914.35	18909.76	18907.43	18905.37	18903.54	18901.93
14.5	18803.42	18798.79	18793.90	18788.89	18783.89	18779.04	18776.62	18774.46	18772.55	18770.87
15.0	18660.57	18655.82	18650.75	18645.51	18640.25	18635.12	18632.54	18630.23	18628.15	18626.30
15.5	18503.62	18498.77	18493.55	18488.13	18482.66	18477.30	18474.51	18471.97	18469.67	18467.59
16.0	18332.06	18327.17	18321.87	18316.32	18310.68	18305.12	18302.08	18299.26	18296.67	18294.29
16.5	18144.70	18139.93	18134.67	18129.10	18123.37	18117.66	18114.35	18111.23	18108.29	18105.54
17.0	17942.60	17938.02	17932.86	17927.28	17921.47	17915.60	17912.00	17908.53	17905.19	17902.00
17.5	17727.08	17722.67	17717.56	17711.93	17705.96	17699.83	17695.91	17692.04	17688.23	17684.53
18.0	17496.22	17492.02	17487.00	17481.34	17475.23	17468.87	17464.58	17460.26	17455.94	17451.67
18.5	17248.48	17244.58	17239.76	17234.20	17228.08	17221.60	17216.85	17211.97	17207.03	17202.06
19.0	16983.98	16980.40	16975.80	16970.37	16964.29	16957.75	16952.61	16947.26	16941.77	16936.21
19.5	16701.74	16698.40	16693.96	16688.63	16682.58	16676.01	16670.81	16665.35	16659.69	16653.90
20.0	16403.56	16400.46	16396.19	16390.95	16384.92	16378.31	16373.10	16367.58	16361.79	16355.82
20.5	16091.56	16088.75	16084.66	16079.50	16073.46	16066.75	16061.30	16055.47	16049.31	16042.91

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CANDELA TABULATION - (Cont.)

21.0	15763.80	15761.32	15757.46	15752.41	15746.38	15739.59	15733.86	15727.66	15721.07	15714.18
21.5	15418.69	15416.56	15412.96	15408.10	15402.18	15395.39	15389.35	15382.76	15375.72	15368.34
22.0	15057.38	15055.69	15052.45	15047.86	15042.13	15035.44	15029.21	15022.36	15014.99	15007.22
22.5	14680.24	14679.16	14676.44	14672.27	14666.86	14660.42	14654.36	14647.60	14640.25	14632.43
23.0	14288.04	14287.65	14285.52	14281.83	14276.81	14270.67	14264.90	14258.35	14251.14	14243.39
23.5	13881.55	13881.83	13880.25	13877.03	13872.37	13866.52	13860.92	13854.47	13847.31	13839.57
24.0	13461.18	13462.13	13461.14	13458.42	13454.20	13448.71	13443.36	13437.11	13430.10	13422.48
24.5	13027.13	13028.80	13028.48	13026.38	13022.74	13017.77	13012.92	13007.14	13000.55	12993.32
25.0	12580.65	12583.06	12583.44	12582.01	12579.01	12574.67	12570.42	12565.22	12559.20	12552.50
25.5	12122.09	12125.27	12126.42	12125.74	12123.48	12119.85	12116.19	12111.54	12106.06	12099.89
26.0	11654.35	11658.17	11659.97	11659.96	11658.35	11655.39	11652.43	11648.48	11643.69	11638.21
26.5	11179.54	11183.55	11185.56	11185.79	11184.50	11181.92	11179.98	11177.13	11173.48	11169.15
27.0	10700.30	10704.56	10706.84	10707.38	10706.44	10704.27	10703.31	10701.49	10698.90	10695.66
27.5	10219.79	10225.04	10228.27	10229.72	10229.64	10228.28	10227.80	10226.40	10224.19	10221.29
28.0	9738.46	9744.71	9748.92	9751.32	9752.14	9751.63	9751.54	9750.48	9748.56	9745.92
28.5	9255.54	9262.15	9266.81	9269.72	9271.13	9271.25	9271.86	9271.53	9270.37	9268.52
29.0	8777.89	8784.66	8789.55	8792.80	8794.61	8795.21	8796.47	8796.86	8796.47	8795.42
29.5	8313.03	8319.93	8324.98	8328.41	8330.44	8331.28	8332.87	8333.62	8333.61	8332.96
30.0	7858.27	7865.28	7870.47	7874.06	7876.26	7877.31	7879.13	7880.12	7880.37	7880.00
30.5	7412.23	7419.45	7424.95	7428.91	7431.54	7433.05	7435.08	7436.30	7436.80	7436.69
31.0	6978.58	6985.87	6991.54	6995.77	6998.75	7000.65	7002.92	7004.42	7005.22	7005.43
31.5	6560.15	6567.04	6572.42	6576.47	6579.38	6581.33	6584.02	6586.01	6587.40	6588.24
32.0	6158.10	6164.45	6169.40	6173.13	6175.84	6177.70	6180.72	6183.16	6185.05	6186.48
32.5	5774.92	5780.86	5785.48	5788.96	5791.49	5793.25	5796.21	5798.64	5800.60	5802.13
33.0	5409.35	5414.93	5419.26	5422.53	5424.91	5426.57	5429.42	5431.79	5433.74	5435.31
33.5	5059.96	5065.22	5069.32	5072.45	5074.76	5076.44	5079.48	5082.10	5084.35	5086.26
34.0	4729.70	4734.74	4738.71	4741.78	4744.11	4745.87	4749.07	4751.90	4754.39	4756.58
34.5	4421.21	4426.26	4430.31	4433.52	4436.02	4437.97	4440.96	4443.57	4445.85	4447.84
35.0	4133.96	4139.03	4143.18	4146.52	4149.19	4151.32	4154.09	4156.49	4158.55	4160.33
35.5	3871.27	3876.13	3880.16	3883.45	3886.14	3888.34	3891.25	3893.82	3896.10	3898.12
36.0	3624.27	3628.85	3632.66	3635.83	3638.45	3640.66	3643.75	3646.56	3649.11	3651.43
36.5	3381.22	3385.48	3389.05	3392.04	3394.54	3396.68	3399.78	3402.64	3405.27	3407.69
37.0	3154.06	3158.00	3161.31	3164.09	3166.45	3168.49	3171.53	3174.36	3176.99	3179.43
37.5	2953.76	2957.39	2960.47	2963.08	2965.31	2967.27	2970.17	2972.90	2975.46	2977.86
38.0	2771.58	2774.91	2777.75	2780.18	2782.28	2784.15	2786.91	2789.52	2792.00	2794.34
38.5	2602.18	2605.16	2607.72	2609.94	2611.88	2613.63	2616.33	2618.92	2621.40	2623.78
39.0	2446.40	2449.07	2451.37	2453.37	2455.16	2456.79	2459.41	2461.94	2464.40	2466.75
39.5	2303.84	2306.31	2308.45	2310.31	2311.98	2313.50	2315.92	2318.27	2320.53	2322.71
40.0	2172.85	2175.17	2177.17	2178.92	2180.47	2181.88	2184.03	2186.11	2188.10	2190.01
40.5	2051.87	2054.06	2055.94	2057.57	2058.98	2060.23	2062.05	2063.76	2065.38	2066.91
41.0	1940.18	1942.23	1943.96	1945.44	1946.70	1947.80	1949.30	1950.70	1951.99	1953.19
41.5	1836.55	1838.35	1839.88	1841.18	1842.29	1843.26	1844.65	1845.94	1847.13	1848.24
42.0	1741.00	1742.49	1743.75	1744.82	1745.75	1746.56	1747.89	1749.15	1750.33	1751.44
42.5	1653.74	1654.71	1655.51	1656.19	1656.78	1657.33	1658.65	1659.97	1661.24	1662.48
43.0	1573.03	1573.66	1574.15	1574.54	1574.88	1575.20	1576.37	1577.55	1578.71	1579.84
43.5	1497.25	1498.36	1499.24	1499.90	1500.39	1500.73	1501.16	1501.48	1501.71	1501.87
44.0	1426.13	1427.70	1428.94	1429.86	1430.50	1430.85	1430.59	1430.11	1429.46	1428.70
44.5	1358.57	1359.68	1360.51	1361.09	1361.44	1361.58	1361.34	1360.94	1360.42	1359.80
45.0	1295.45	1295.95	1296.25	1296.39	1296.38	1296.26	1296.20	1296.05	1295.83	1295.55
45.5	1237.71	1238.01	1238.14	1238.11	1237.96	1237.69	1237.51	1237.25	1236.93	1236.55
46.0	1184.11	1184.32	1184.35	1184.22	1183.96	1183.58	1183.21	1182.76	1182.25	1181.68
46.5	1133.80	1133.87	1133.76	1133.50	1133.11	1132.60	1132.07	1131.46	1130.79	1130.07
47.0	1086.51	1086.44	1086.20	1085.82	1085.31	1084.69	1084.00	1083.25	1082.43	1081.59
47.5	1041.64	1041.47	1041.13	1040.65	1040.05	1039.34	1038.55	1037.69	1036.78	1035.84
48.0	999.27	999.00	998.58	998.02	997.34	996.56	995.69	994.75	993.76	992.74
48.5	959.37	959.02	958.51	957.88	957.12	956.27	955.32	954.31	953.26	952.18

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49.0	921.64	921.20	920.61	919.90	919.08	918.16	917.15	916.07	914.96	913.82
49.5	885.74	885.23	884.57	883.78	882.89	881.90	880.82	879.69	878.53	877.34
50.0	851.64	851.04	850.30	849.44	848.48	847.42	846.29	845.11	843.90	842.68
50.5	819.22	818.53	817.71	816.77	815.73	814.62	813.42	812.19	810.93	809.66
51.0	788.28	787.51	786.61	785.60	784.50	783.33	782.09	780.82	779.52	778.24
51.5	758.56	757.73	756.78	755.73	754.60	753.40	752.16	750.89	749.61	748.33
52.0	730.06	729.19	728.21	727.13	725.98	724.76	723.54	722.29	721.03	719.79
52.5	702.70	701.81	700.81	699.72	698.55	697.32	696.11	694.88	693.65	692.43
53.0	676.46	675.56	674.54	673.43	672.25	671.02	669.83	668.61	667.40	666.20
53.5	651.36	650.43	649.39	648.27	647.08	645.84	644.64	643.43	642.22	641.03
54.0	627.15	626.19	625.14	624.01	622.82	621.58	620.39	619.18	617.99	616.82
54.5	603.50	602.55	601.51	600.40	599.23	598.02	596.88	595.73	594.59	593.47
55.0	580.60	579.67	578.64	577.55	576.40	575.22	574.14	573.05	571.98	570.93
55.5	558.63	557.68	556.64	555.53	554.38	553.20	552.15	551.10	550.07	549.07
56.0	537.36	536.39	535.34	534.22	533.06	531.87	530.86	529.86	528.88	527.92
56.5	516.63	515.66	514.61	513.50	512.35	511.19	510.25	509.32	508.41	507.53
57.0	496.53	495.56	494.51	493.41	492.28	491.14	490.27	489.41	488.58	487.79
57.5	477.16	476.17	475.11	474.01	472.87	471.73	470.89	470.08	469.30	468.55
58.0	458.39	457.38	456.30	455.17	454.02	452.87	452.07	451.30	450.57	449.88
58.5	440.09	439.04	437.92	436.76	435.59	434.43	433.69	433.00	432.35	431.74
59.0	422.36	421.27	420.12	418.92	417.73	416.55	415.88	415.26	414.70	414.18
59.5	405.27	404.15	402.97	401.75	400.53	399.34	398.73	398.18	397.68	397.24
60.0	388.80	387.67	386.47	385.23	383.99	382.80	382.23	381.73	381.29	380.91
60.5	373.01	371.90	370.71	369.49	368.26	367.07	366.51	366.03	365.60	365.23
61.0	357.79	356.69	355.51	354.28	353.04	351.84	351.31	350.84	350.43	350.07
61.5	343.07	341.88	340.61	339.29	337.98	336.71	336.25	335.87	335.56	335.31
62.0	328.88	327.61	326.24	324.84	323.45	322.12	321.72	321.41	321.19	321.04
62.5	315.19	313.94	312.59	311.20	309.80	308.46	308.05	307.73	307.49	307.32
63.0	302.05	300.84	299.52	298.15	296.77	295.43	295.00	294.65	294.38	294.17
63.5	289.54	288.33	287.00	285.60	284.20	282.84	282.42	282.08	281.83	281.64
64.0	277.50	276.26	274.92	273.51	272.09	270.72	270.32	270.01	269.78	269.62
64.5	265.67	264.45	263.12	261.72	260.32	258.97	258.60	258.32	258.13	258.00
65.0	254.29	253.09	251.79	250.43	249.06	247.74	247.40	247.16	246.99	246.89
65.5	243.53	242.36	241.10	239.78	238.45	237.18	236.85	236.63	236.48	236.39
66.0	233.26	232.15	230.94	229.67	228.40	227.17	226.87	226.65	226.51	226.44
66.5	223.44	222.41	221.28	220.09	218.89	217.74	217.46	217.25	217.12	217.05
67.0	214.07	213.11	212.05	210.93	209.80	208.71	208.45	208.27	208.15	208.08
67.5	205.20	204.25	203.20	202.10	200.99	199.91	199.67	199.51	199.41	199.37
68.0	196.64	195.71	194.67	193.58	192.48	191.42	191.20	191.07	190.99	190.97
68.5	188.21	187.33	186.36	185.33	184.29	183.28	183.10	182.99	182.94	182.94
69.0	180.01	179.21	178.30	177.33	176.35	175.39	175.24	175.15	175.12	175.13
69.5	172.15	171.38	170.50	169.55	168.59	167.66	167.51	167.42	167.38	167.39
70.0	164.51	163.76	162.90	161.98	161.04	160.12	159.97	159.87	159.83	159.83
70.5	157.00	156.29	155.48	154.59	153.68	152.80	152.66	152.57	152.53	152.54
71.0	149.68	149.02	148.25	147.40	146.53	145.68	145.55	145.46	145.43	145.43
71.5	142.63	142.00	141.26	140.45	139.61	138.78	138.63	138.52	138.46	138.43
72.0	135.74	135.15	134.45	133.68	132.87	132.07	131.90	131.78	131.69	131.63
72.5	128.93	128.39	127.75	127.04	126.29	125.55	125.38	125.26	125.16	125.10
73.0	122.30	121.82	121.24	120.59	119.91	119.23	119.08	118.95	118.86	118.79
73.5	115.99	115.55	115.02	114.43	113.80	113.17	113.02	112.89	112.78	112.70
74.0	109.89	109.50	109.01	108.47	107.88	107.29	107.13	107.00	106.88	106.78
74.5	104.01	103.64	103.18	102.65	102.09	101.53	101.37	101.22	101.10	100.98
75.0	98.26	97.90	97.46	96.96	96.43	95.89	95.72	95.58	95.45	95.33
75.5	92.51	92.19	91.79	91.33	90.84	90.34	90.18	90.04	89.92	89.80
76.0	86.89	86.60	86.24	85.83	85.39	84.94	84.80	84.67	84.55	84.44
76.5	81.45	81.21	80.91	80.55	80.16	79.77	79.65	79.54	79.44	79.34

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77.0	76.17	75.98	75.72	75.42	75.09	74.75	74.65	74.57	74.48	74.41
77.5	71.03	70.88	70.67	70.41	70.13	69.84	69.77	69.69	69.63	69.56
78.0	66.04	65.92	65.76	65.55	65.32	65.08	65.02	64.96	64.90	64.85
78.5	61.20	61.12	61.00	60.84	60.65	60.46	60.41	60.37	60.32	60.28
79.0	56.57	56.53	56.44	56.32	56.17	56.01	55.98	55.94	55.91	55.87
79.5	52.29	52.26	52.19	52.09	51.96	51.82	51.79	51.75	51.71	51.67
80.0	48.18	48.16	48.10	48.01	47.89	47.76	47.73	47.69	47.65	47.61
80.5	44.12	44.11	44.06	43.98	43.87	43.75	43.73	43.70	43.67	43.63
81.0	40.14	40.13	40.09	40.01	39.91	39.80	39.79	39.77	39.74	39.72
81.5	36.20	36.20	36.17	36.10	36.01	35.90	35.89	35.88	35.86	35.83
82.0	32.30	32.31	32.28	32.22	32.14	32.04	32.03	32.02	32.00	31.98
82.5	28.38	28.40	28.38	28.34	28.27	28.19	28.19	28.18	28.17	28.15
83.0	24.50	24.53	24.52	24.49	24.44	24.37	24.38	24.37	24.37	24.36
83.5	20.66	20.69	20.69	20.66	20.62	20.57	20.58	20.59	20.59	20.59
84.0	16.94	16.96	16.96	16.94	16.91	16.87	16.88	16.90	16.91	16.92
84.5	13.40	13.41	13.41	13.40	13.37	13.34	13.35	13.36	13.38	13.39
85.0	10.06	10.07	10.06	10.04	10.01	9.98	10.00	10.01	10.03	10.04
85.5	6.84	6.80	6.76	6.72	6.67	6.64	6.66	6.69	6.73	6.77
86.0	4.17	4.10	4.04	3.98	3.93	3.89	3.92	3.96	4.01	4.08
86.5	2.64	2.60	2.55	2.51	2.48	2.45	2.47	2.49	2.52	2.56
87.0	1.80	1.79	1.77	1.75	1.74	1.73	1.73	1.73	1.74	1.75
87.5	1.46	1.45	1.44	1.43	1.43	1.42	1.42	1.42	1.42	1.42
88.0	1.40	1.39	1.39	1.39	1.38	1.38	1.38	1.38	1.38	1.38
88.5	1.35	1.35	1.35	1.35	1.34	1.34	1.34	1.34	1.34	1.34
89.0	1.36	1.36	1.36	1.35	1.35	1.35	1.35	1.35	1.35	1.35
89.5	1.36	1.36	1.36	1.36	1.35	1.35	1.35	1.35	1.35	1.35
90.0	1.38	1.37	1.37	1.37	1.37	1.36	1.36	1.36	1.36	1.36

Vert. 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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19827.72	19827.68	19827.66	19827.64	19827.63	19827.68	19827.73	19827.80	19827.87	19827.93
1.0	19829.44	19829.45	19829.47	19829.50	19829.54	19829.63	19829.72	19829.82	19829.93	19830.03
1.5	19832.49	19832.66	19832.84	19833.02	19833.20	19833.33	19833.45	19833.57	19833.67	19833.77
2.0	19835.56	19835.88	19836.21	19836.53	19836.83	19836.97	19837.10	19837.20	19837.28	19837.34
2.5	19837.72	19838.02	19838.33	19838.63	19838.91	19839.01	19839.08	19839.14	19839.17	19839.18
3.0	19838.35	19838.58	19838.82	19839.05	19839.26	19839.28	19839.28	19839.25	19839.21	19839.15
3.5	19836.70	19836.89	19837.08	19837.27	19837.44	19837.36	19837.24	19837.11	19836.96	19836.78
4.0	19832.30	19832.40	19832.52	19832.64	19832.74	19832.54	19832.32	19832.08	19831.81	19831.53
4.5	19824.13	19824.05	19824.00	19823.98	19823.96	19823.66	19823.35	19823.03	19822.71	19822.39
5.0	19813.06	19812.77	19812.54	19812.35	19812.18	19811.78	19811.38	19810.99	19810.62	19810.27
5.5	19799.62	19799.15	19798.76	19798.43	19798.13	19797.59	19797.08	19796.60	19796.15	19795.73
6.0	19783.88	19783.24	19782.68	19782.19	19781.75	19781.08	19780.45	19779.86	19779.31	19778.81
6.5	19766.27	19765.41	19764.64	19763.95	19763.33	19762.50	19761.72	19761.00	19760.34	19759.75
7.0	19746.32	19745.25	19744.29	19743.43	19742.65	19741.67	19740.77	19739.94	19739.20	19738.53
7.5	19723.88	19722.66	19721.58	19720.61	19719.73	19718.71	19717.76	19716.91	19716.15	19715.48
8.0	19698.48	19697.19	19696.04	19695.01	19694.07	19693.03	19692.07	19691.21	19690.45	19689.77
8.5	19670.13	19668.86	19667.71	19666.69	19665.77	19664.68	19663.68	19662.78	19661.96	19661.24
9.0	19637.40	19636.16	19635.04	19634.04	19633.13	19631.98	19630.92	19629.94	19629.05	19628.25
9.5	19599.04	19597.78	19596.63	19595.59	19594.63	19593.37	19592.18	19591.07	19590.05	19589.13
10.0	19554.54	19553.21	19552.00	19550.89	19549.85	19548.49	19547.20	19545.99	19544.88	19543.88
10.5	19503.05	19501.59	19500.25	19499.02	19497.89	19496.54	19495.28	19494.12	19493.07	19492.13
11.0	19444.26	19442.66	19441.20	19439.86	19438.64	19437.33	19436.13	19435.05	19434.09	19433.25
11.5	19377.91	19376.23	19374.69	19373.29	19372.02	19370.72	19369.54	19368.48	19367.55	19366.76
12.0	19303.00	19301.30	19299.76	19298.35	19297.07	19295.75	19294.55	19293.49	19292.55	19291.75

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CANDELA TABULATION - (Cont.)

12.5	19218.79	19217.20	19215.74	19214.42	19213.21	19211.83	19210.55	19209.39	19208.36	19207.45
13.0	19124.26	19122.81	19121.49	19120.29	19119.18	19117.73	19116.38	19115.13	19113.98	19112.97
13.5	19018.46	19017.13	19015.94	19014.86	19013.87	19012.43	19011.07	19009.81	19008.66	19007.64
14.0	18900.50	18899.25	18898.13	18897.13	18896.21	18894.77	18893.41	18892.15	18891.01	18890.01
14.5	18769.37	18768.04	18766.86	18765.80	18764.83	18763.31	18761.88	18760.56	18759.38	18758.35
15.0	18624.64	18623.16	18621.83	18620.63	18619.54	18617.93	18616.42	18615.05	18613.84	18612.80
15.5	18465.71	18464.02	18462.50	18461.13	18459.89	18458.28	18456.80	18455.48	18454.34	18453.39
16.0	18292.11	18290.13	18288.33	18286.70	18285.23	18283.56	18282.06	18280.74	18279.62	18278.71
16.5	18102.97	18100.58	18098.38	18096.35	18094.50	18092.58	18090.84	18089.32	18088.03	18086.99
17.0	17898.95	17896.07	17893.36	17890.83	17888.48	17886.17	17884.08	17882.23	17880.63	17879.31
17.5	17680.93	17677.47	17674.16	17671.01	17668.05	17665.20	17662.58	17660.22	17658.14	17656.37
18.0	17447.46	17443.34	17439.36	17435.54	17431.90	17428.49	17425.32	17422.44	17419.86	17417.62
18.5	17197.13	17192.27	17187.53	17182.96	17178.61	17174.83	17171.33	17168.15	17165.30	17162.82
19.0	16930.62	16925.09	16919.66	16914.41	16909.39	16905.20	16901.32	16897.77	16894.58	16891.77
19.5	16648.04	16642.16	16636.35	16630.66	16625.14	16620.24	16615.61	16611.29	16607.32	16603.73
20.0	16349.72	16343.56	16337.40	16331.30	16325.33	16319.72	16314.35	16309.26	16304.50	16300.11
20.5	16036.34	16029.67	16022.97	16016.32	16009.78	16003.78	15998.00	15992.51	15987.33	15982.53
21.0	15707.08	15699.85	15692.58	15685.35	15678.25	15671.97	15665.94	15660.20	15654.78	15649.71
21.5	15360.70	15352.92	15345.08	15337.30	15329.67	15323.21	15317.02	15311.13	15305.58	15300.39
22.0	14999.16	14990.93	14982.63	14974.38	14966.30	14959.65	14953.29	14947.24	14941.53	14936.19
22.5	14624.25	14615.84	14607.31	14598.78	14590.36	14583.33	14576.56	14570.06	14563.88	14558.02
23.0	14235.23	14226.77	14218.13	14209.44	14200.80	14193.52	14186.44	14179.60	14173.04	14166.78
23.5	13831.37	13822.85	13814.14	13805.37	13796.66	13789.54	13782.64	13775.99	13769.60	13763.49
24.0	13414.37	13405.92	13397.28	13388.57	13379.95	13373.20	13366.67	13360.39	13354.37	13348.62
24.5	12985.59	12977.48	12969.16	12960.77	12952.44	12946.07	12939.92	12933.99	12928.29	12922.83
25.0	12545.27	12537.66	12529.81	12521.87	12513.96	12508.09	12502.39	12496.90	12491.60	12486.51
25.5	12093.18	12086.07	12078.72	12071.27	12063.87	12058.67	12053.65	12048.82	12044.16	12039.67
26.0	11632.18	11625.75	11619.05	11612.25	11605.47	11600.88	11596.46	11592.19	11588.06	11584.07
26.5	11164.28	11158.97	11153.35	11147.53	11141.65	11137.24	11132.89	11128.61	11124.41	11120.30
27.0	10691.86	10687.59	10682.97	10678.08	10673.02	10668.81	10664.55	10660.29	10656.06	10651.88
27.5	10217.79	10213.83	10209.49	10204.90	10200.16	10196.58	10192.98	10189.38	10185.80	10182.25
28.0	9742.66	9738.93	9734.84	9730.51	9726.07	9723.27	9720.48	9717.70	9714.93	9712.18
28.5	9266.08	9263.16	9259.89	9256.38	9252.74	9250.68	9248.61	9246.52	9244.41	9242.27
29.0	8793.80	8791.73	8789.31	8786.65	8783.84	8782.45	8781.02	8779.54	8778.01	8776.42
29.5	8331.77	8330.14	8328.17	8325.95	8323.60	8322.70	8321.75	8320.75	8319.67	8318.53
30.0	7879.10	7877.78	7876.12	7874.25	7872.24	7871.73	7871.17	7870.57	7869.89	7869.13
30.5	7436.06	7435.01	7433.65	7432.08	7430.39	7430.26	7430.09	7429.88	7429.60	7429.23
31.0	7005.14	7004.45	7003.45	7002.25	7000.93	7001.11	7001.26	7001.35	7001.38	7001.31
31.5	6588.62	6588.61	6588.29	6587.74	6587.04	6587.38	6587.64	6587.79	6587.85	6587.79
32.0	6187.48	6188.12	6188.46	6188.54	6188.44	6188.98	6189.39	6189.66	6189.79	6189.79
32.5	5803.30	5804.16	5804.77	5805.16	5805.41	5806.47	5807.41	5808.24	5808.93	5809.46
33.0	5436.57	5437.57	5438.35	5438.98	5439.51	5441.04	5442.49	5443.85	5445.07	5446.14
33.5	5087.89	5089.26	5090.42	5091.42	5092.29	5093.89	5095.38	5096.75	5097.98	5099.04
34.0	4758.49	4760.15	4761.61	4762.88	4764.01	4765.61	4767.09	4768.42	4769.60	4770.61
34.5	4449.57	4451.08	4452.41	4453.59	4454.68	4456.53	4458.30	4459.96	4461.49	4462.85
35.0	4161.87	4163.21	4164.40	4165.49	4166.53	4168.63	4170.69	4172.67	4174.54	4176.25
35.5	3899.91	3901.51	3902.97	3904.31	3905.58	3907.76	3909.87	3911.88	3913.76	3915.46
36.0	3653.54	3655.47	3657.25	3658.89	3660.43	3662.59	3664.65	3666.57	3668.34	3669.92
36.5	3409.92	3411.98	3413.88	3415.65	3417.29	3419.33	3421.25	3423.03	3424.65	3426.09
37.0	3181.70	3183.81	3185.77	3187.59	3189.29	3191.22	3193.02	3194.68	3196.19	3197.52
37.5	2980.11	2982.23	2984.21	2986.07	2987.83	2989.83	2991.71	2993.46	2995.06	2996.50
38.0	2796.56	2798.66	2800.65	2802.54	2804.33	2806.39	2808.33	2810.16	2811.84	2813.37
38.5	2626.04	2628.19	2630.24	2632.18	2634.00	2635.90	2637.68	2639.33	2640.84	2642.20
39.0	2469.01	2471.17	2473.21	2475.14	2476.95	2478.64	2480.20	2481.63	2482.91	2484.05
39.5	2324.80	2326.78	2328.67	2330.45	2332.12	2333.67	2335.10	2336.40	2337.58	2338.62
40.0	2191.83	2193.56	2195.20	2196.74	2198.19	2199.58	2200.87	2202.05	2203.12	2204.08

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CANDELA TABULATION - (Cont.)

40.5	2068.35	2069.71	2070.98	2072.18	2073.30	2074.45	2075.52	2076.52	2077.44	2078.28
41.0	1954.29	1955.32	1956.26	1957.15	1957.97	1958.85	1959.67	1960.45	1961.18	1961.86
41.5	1849.25	1850.19	1851.05	1851.84	1852.55	1853.17	1853.73	1854.25	1854.71	1855.14
42.0	1752.46	1753.41	1754.27	1755.05	1755.73	1756.08	1756.35	1756.56	1756.73	1756.87
42.5	1663.64	1664.73	1665.72	1666.59	1667.34	1667.30	1667.15	1666.92	1666.64	1666.35
43.0	1580.92	1581.92	1582.82	1583.62	1584.28	1584.00	1583.61	1583.14	1582.63	1582.13
43.5	1501.96	1501.99	1502.00	1501.97	1501.94	1502.00	1502.07	1502.16	1502.28	1502.43
44.0	1427.86	1426.99	1426.14	1425.35	1424.67	1425.04	1425.54	1426.15	1426.85	1427.61
44.5	1359.11	1358.39	1357.68	1357.00	1356.39	1356.40	1356.50	1356.70	1356.97	1357.31
45.0	1295.23	1294.86	1294.47	1294.07	1293.67	1293.23	1292.81	1292.43	1292.11	1291.86
45.5	1236.14	1235.69	1235.22	1234.74	1234.26	1233.69	1233.15	1232.65	1232.22	1231.87
46.0	1181.08	1180.46	1179.82	1179.19	1178.58	1177.99	1177.44	1176.95	1176.54	1176.23
46.5	1129.33	1128.57	1127.82	1127.09	1126.39	1125.79	1125.25	1124.78	1124.40	1124.12
47.0	1080.72	1079.85	1078.99	1078.17	1077.40	1076.80	1076.27	1075.83	1075.48	1075.24
47.5	1034.89	1033.93	1033.00	1032.11	1031.28	1030.64	1030.09	1029.63	1029.27	1029.02
48.0	991.72	990.70	989.71	988.77	987.89	987.21	986.62	986.13	985.75	985.48
48.5	951.09	950.02	948.97	947.98	947.06	946.35	945.74	945.23	944.83	944.55
49.0	912.68	911.56	910.48	909.45	908.48	907.76	907.13	906.61	906.19	905.90
49.5	876.16	875.01	873.89	872.82	871.84	871.10	870.46	869.94	869.52	869.23
50.0	841.46	840.27	839.13	838.04	837.04	836.31	835.68	835.16	834.76	834.48
50.5	808.41	807.20	806.03	804.94	803.93	803.22	802.63	802.14	801.78	801.54
51.0	776.97	775.74	774.57	773.48	772.48	771.80	771.23	770.79	770.47	770.26
51.5	747.08	745.88	744.73	743.66	742.68	742.02	741.48	741.05	740.73	740.54
52.0	718.57	717.39	716.28	715.24	714.29	713.64	713.10	712.67	712.36	712.16
52.5	691.23	690.08	688.99	687.97	687.04	686.39	685.84	685.40	685.07	684.85
53.0	665.03	663.90	662.83	661.83	660.92	660.27	659.72	659.28	658.94	658.72
53.5	639.87	638.75	637.70	636.73	635.84	635.25	634.75	634.37	634.08	633.91
54.0	615.68	614.59	613.56	612.62	611.76	611.22	610.78	610.44	610.21	610.07
54.5	592.39	591.36	590.38	589.48	588.66	588.11	587.66	587.31	587.05	586.89
55.0	569.91	568.94	568.02	567.16	566.39	565.83	565.35	564.97	564.68	564.48
55.5	548.09	547.16	546.29	545.48	544.74	544.19	543.73	543.35	543.05	542.84
56.0	527.00	526.12	525.29	524.53	523.83	523.30	522.85	522.48	522.19	521.97
56.5	506.69	505.89	505.14	504.44	503.80	503.28	502.83	502.45	502.14	501.91
57.0	487.02	486.30	485.62	484.99	484.41	483.91	483.46	483.08	482.76	482.51
57.5	467.84	467.17	466.54	465.96	465.43	464.96	464.54	464.18	463.88	463.64
58.0	449.22	448.60	448.03	447.50	447.02	446.58	446.19	445.85	445.56	445.33
58.5	431.17	430.64	430.15	429.70	429.29	428.87	428.49	428.15	427.86	427.61
59.0	413.70	413.26	412.86	412.49	412.16	411.75	411.38	411.04	410.73	410.47
59.5	396.84	396.48	396.15	395.86	395.58	395.20	394.84	394.50	394.20	393.92
60.0	380.57	380.27	380.00	379.76	379.54	379.18	378.84	378.52	378.23	377.96
60.5	364.90	364.61	364.36	364.13	363.93	363.62	363.34	363.07	362.82	362.60
61.0	349.77	349.50	349.27	349.07	348.89	348.63	348.38	348.15	347.95	347.76
61.5	335.11	334.95	334.83	334.72	334.63	334.36	334.09	333.82	333.57	333.34
62.0	320.94	320.88	320.85	320.83	320.82	320.54	320.25	319.96	319.67	319.39
62.5	307.21	307.14	307.10	307.08	307.06	306.83	306.61	306.38	306.15	305.93
63.0	294.02	293.92	293.85	293.80	293.77	293.61	293.45	293.29	293.15	293.00
63.5	281.50	281.42	281.36	281.34	281.33	281.19	281.05	280.92	280.79	280.66
64.0	269.51	269.46	269.44	269.44	269.46	269.33	269.20	269.08	268.95	268.83
64.5	257.93	257.91	257.92	257.95	258.00	257.88	257.77	257.65	257.53	257.41
65.0	246.85	246.86	246.90	246.96	247.02	246.92	246.82	246.71	246.59	246.47
65.5	236.37	236.38	236.43	236.49	236.57	236.47	236.38	236.28	236.17	236.05
66.0	226.41	226.43	226.48	226.54	226.61	226.53	226.44	226.34	226.23	226.12
66.5	217.02	217.04	217.08	217.13	217.19	217.10	217.01	216.92	216.81	216.69
67.0	208.06	208.07	208.10	208.15	208.20	208.12	208.03	207.93	207.82	207.70
67.5	199.37	199.40	199.45	199.52	199.59	199.51	199.42	199.32	199.21	199.08
68.0	191.00	191.05	191.13	191.21	191.30	191.22	191.14	191.04	190.93	190.80

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68.5	182.98	183.05	183.13	183.22	183.31	183.24	183.15	183.05	182.94	182.81
69.0	175.18	175.25	175.34	175.43	175.52	175.45	175.37	175.28	175.17	175.05
69.5	167.43	167.50	167.59	167.68	167.77	167.74	167.69	167.63	167.56	167.47
70.0	159.87	159.93	160.01	160.10	160.19	160.18	160.16	160.14	160.10	160.04
70.5	152.57	152.63	152.71	152.79	152.88	152.87	152.85	152.82	152.78	152.72
71.0	145.46	145.51	145.58	145.65	145.72	145.71	145.68	145.65	145.60	145.54
71.5	138.43	138.45	138.49	138.54	138.59	138.58	138.58	138.56	138.53	138.50
72.0	131.60	131.59	131.60	131.62	131.65	131.65	131.65	131.65	131.65	131.63
72.5	125.06	125.03	125.03	125.03	125.04	125.04	125.03	125.02	125.01	124.99
73.0	118.74	118.71	118.69	118.68	118.68	118.65	118.62	118.60	118.57	118.53
73.5	112.63	112.58	112.53	112.50	112.47	112.43	112.39	112.35	112.31	112.26
74.0	106.69	106.62	106.55	106.50	106.45	106.39	106.34	106.29	106.24	106.18
74.5	100.89	100.80	100.73	100.66	100.60	100.54	100.48	100.43	100.37	100.32
75.0	95.23	95.14	95.06	94.99	94.92	94.86	94.80	94.75	94.70	94.65
75.5	89.70	89.61	89.53	89.45	89.39	89.34	89.29	89.25	89.21	89.17
76.0	84.35	84.26	84.18	84.12	84.06	84.01	83.97	83.94	83.91	83.88
76.5	79.26	79.18	79.11	79.05	78.99	78.95	78.91	78.87	78.84	78.80
77.0	74.34	74.27	74.21	74.16	74.11	74.06	74.02	73.98	73.94	73.91
77.5	69.51	69.45	69.40	69.35	69.31	69.28	69.25	69.23	69.21	69.19
78.0	64.80	64.76	64.72	64.68	64.64	64.63	64.62	64.61	64.60	64.60
78.5	60.24	60.20	60.16	60.13	60.10	60.09	60.08	60.08	60.08	60.08
79.0	55.83	55.79	55.76	55.73	55.70	55.69	55.69	55.69	55.69	55.69
79.5	51.63	51.59	51.55	51.52	51.49	51.49	51.49	51.49	51.50	51.51
80.0	47.57	47.53	47.49	47.45	47.42	47.42	47.42	47.43	47.44	47.45
80.5	43.60	43.56	43.53	43.49	43.47	43.47	43.47	43.48	43.49	43.50
81.0	39.69	39.66	39.64	39.61	39.59	39.59	39.59	39.60	39.60	39.61
81.5	35.81	35.79	35.76	35.74	35.72	35.72	35.73	35.73	35.74	35.75
82.0	31.96	31.94	31.92	31.90	31.88	31.88	31.89	31.90	31.91	31.92
82.5	28.13	28.12	28.10	28.08	28.06	28.05	28.05	28.06	28.06	28.07
83.0	24.34	24.33	24.31	24.30	24.28	24.28	24.27	24.27	24.27	24.27
83.5	20.59	20.59	20.58	20.57	20.57	20.57	20.57	20.58	20.58	20.59
84.0	16.93	16.94	16.94	16.95	16.96	16.97	16.98	16.99	17.01	17.02
84.5	13.40	13.41	13.42	13.44	13.45	13.47	13.49	13.52	13.54	13.57
85.0	10.06	10.08	10.10	10.12	10.14	10.18	10.21	10.24	10.28	10.31
85.5	6.82	6.87	6.92	6.98	7.03	7.08	7.12	7.16	7.20	7.24
86.0	4.14	4.22	4.29	4.37	4.44	4.49	4.54	4.58	4.62	4.67
86.5	2.61	2.65	2.70	2.75	2.80	2.83	2.87	2.90	2.93	2.96
87.0	1.76	1.77	1.79	1.80	1.82	1.83	1.85	1.86	1.88	1.90
87.5	1.42	1.43	1.43	1.44	1.45	1.45	1.46	1.47	1.48	1.50
88.0	1.38	1.39	1.39	1.39	1.40	1.40	1.41	1.42	1.43	1.43
88.5	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.36	1.36	1.37
89.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.36	1.36	1.36
89.5	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
90.0	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36

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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19828.00	19828.07	19828.13	19828.18	19828.18	19828.17	19828.15	19828.13	19828.11	19828.08
1.0	19830.13	19830.22	19830.30	19830.37	19830.37	19830.35	19830.32	19830.29	19830.25	19830.20
1.5	19833.85	19833.92	19833.98	19834.03	19834.02	19834.00	19833.97	19833.93	19833.88	19833.82
2.0	19837.38	19837.41	19837.42	19837.42	19837.41	19837.39	19837.35	19837.31	19837.25	19837.19
2.5	19839.18	19839.16	19839.13	19839.09	19839.07	19839.05	19839.01	19838.97	19838.92	19838.85
3.0	19839.08	19839.00	19838.91	19838.82	19838.78	19838.73	19838.68	19838.62	19838.56	19838.48
3.5	19836.60	19836.41	19836.21	19836.02	19835.88	19835.76	19835.63	19835.50	19835.38	19835.25

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4.0	19831.25	19830.96	19830.66	19830.38	19830.16	19829.96	19829.76	19829.57	19829.40	19829.23
4.5	19822.08	19821.77	19821.47	19821.20	19820.97	19820.76	19820.57	19820.41	19820.27	19820.15
5.0	19809.94	19809.63	19809.35	19809.10	19808.88	19808.69	19808.54	19808.42	19808.34	19808.31
5.5	19795.34	19795.00	19794.68	19794.41	19794.17	19793.98	19793.84	19793.75	19793.73	19793.76
6.0	19778.36	19777.96	19777.61	19777.33	19777.09	19776.91	19776.81	19776.78	19776.82	19776.95
6.5	19759.23	19758.79	19758.42	19758.13	19757.98	19757.91	19757.93	19758.04	19758.24	19758.52
7.0	19737.96	19737.48	19737.09	19736.82	19736.74	19736.77	19736.91	19737.14	19737.47	19737.89
7.5	19714.91	19714.44	19714.07	19713.80	19713.71	19713.73	19713.85	19714.07	19714.40	19714.82
8.0	19689.21	19688.74	19688.37	19688.11	19687.98	19687.95	19688.03	19688.22	19688.51	19688.90
8.5	19660.62	19660.10	19659.69	19659.38	19659.25	19659.22	19659.29	19659.48	19659.77	19660.16
9.0	19627.56	19626.97	19626.49	19626.12	19626.00	19625.99	19626.10	19626.32	19626.63	19627.05
9.5	19588.32	19587.63	19587.06	19586.63	19586.56	19586.63	19586.82	19587.13	19587.56	19588.09
10.0	19542.99	19542.23	19541.61	19541.14	19541.13	19541.27	19541.55	19541.96	19542.49	19543.13
10.5	19491.32	19490.64	19490.11	19489.72	19489.72	19489.88	19490.17	19490.60	19491.15	19491.80
11.0	19432.54	19431.97	19431.54	19431.25	19431.26	19431.42	19431.71	19432.13	19432.67	19433.33
11.5	19366.10	19365.57	19365.19	19364.95	19364.97	19365.13	19365.42	19365.85	19366.41	19367.09
12.0	19291.08	19290.56	19290.18	19289.95	19289.97	19290.14	19290.45	19290.91	19291.49	19292.21
12.5	19206.69	19206.07	19205.60	19205.29	19205.30	19205.47	19205.81	19206.30	19206.95	19207.74
13.0	19112.10	19111.39	19110.83	19110.46	19110.50	19110.73	19111.13	19111.71	19112.47	19113.39
13.5	19006.78	19006.07	19005.54	19005.20	19005.40	19005.79	19006.38	19007.16	19008.11	19009.23
14.0	18889.17	18888.51	18888.04	18887.78	18888.18	18888.81	18889.64	18890.66	18891.87	18893.23
14.5	18757.51	18756.87	18756.45	18756.27	18756.94	18757.84	18758.97	18760.32	18761.84	18763.53
15.0	18611.97	18611.37	18611.01	18610.93	18611.81	18612.95	18614.35	18615.96	18617.76	18619.73
15.5	18452.66	18452.17	18451.93	18451.97	18452.88	18454.07	18455.50	18457.16	18459.02	18461.05
16.0	18278.04	18277.61	18277.45	18277.57	18278.49	18279.69	18281.13	18282.81	18284.71	18286.79
16.5	18086.21	18085.71	18085.51	18085.63	18086.67	18088.02	18089.64	18091.53	18093.64	18095.96
17.0	17878.30	17877.61	17877.26	17877.28	17878.39	17879.85	17881.63	17883.70	17886.03	17888.58
17.5	17654.94	17653.87	17653.18	17652.91	17653.91	17655.31	17657.08	17659.18	17661.58	17664.24
18.0	17415.74	17414.26	17413.21	17412.60	17413.36	17414.57	17416.19	17418.19	17420.52	17423.16
18.5	17160.72	17159.03	17157.76	17156.96	17157.35	17158.18	17159.44	17161.09	17163.12	17165.48
19.0	16889.36	16887.37	16885.82	16884.73	16884.69	16885.11	16885.97	16887.25	16888.93	16890.98
19.5	16600.55	16597.83	16595.58	16593.86	16593.51	16593.68	16594.36	16595.51	16597.11	16599.12
20.0	16296.15	16292.66	16289.69	16287.29	16286.55	16286.39	16286.80	16287.72	16289.14	16291.02
20.5	15978.14	15974.21	15970.78	15967.90	15966.45	15965.57	15965.25	15965.48	15966.24	15967.52
21.0	15645.05	15640.82	15637.06	15633.82	15631.63	15629.99	15628.90	15628.35	15628.35	15628.90
21.5	15295.59	15291.22	15287.29	15283.85	15281.21	15279.09	15277.49	15276.42	15275.90	15275.91
22.0	14931.23	14926.67	14922.55	14918.88	14915.82	14913.25	14911.18	14909.63	14908.61	14908.13
22.5	14552.53	14547.43	14542.75	14538.51	14534.80	14531.58	14528.88	14526.72	14525.12	14524.11
23.0	14160.86	14155.30	14150.14	14145.41	14141.11	14137.30	14134.03	14131.31	14129.19	14127.69
23.5	13757.70	13752.25	13747.16	13742.45	13737.92	13733.84	13730.25	13727.19	13724.71	13722.84
24.0	13343.16	13338.00	13333.15	13328.63	13324.00	13319.76	13315.97	13312.66	13309.89	13307.71
24.5	12917.62	12912.67	12907.99	12903.58	12898.82	12894.41	12890.39	12886.83	12883.79	12881.31
25.0	12481.63	12476.95	12472.49	12468.26	12463.47	12458.96	12454.81	12451.07	12447.82	12445.10
25.5	12035.35	12031.19	12027.18	12023.32	12018.65	12014.20	12010.02	12006.19	12002.78	11999.84
26.0	11580.21	11576.47	11572.84	11569.31	11564.92	11560.69	11556.68	11552.95	11549.57	11546.61
26.5	11116.30	11112.43	11108.68	11105.07	11101.24	11097.59	11094.19	11091.07	11088.26	11085.83
27.0	10647.79	10643.81	10639.98	10636.33	10633.00	10629.90	10627.05	10624.49	10622.22	10620.27
27.5	10178.75	10175.33	10171.99	10168.76	10165.48	10162.37	10159.44	10156.74	10154.29	10152.12
28.0	9709.44	9706.71	9704.00	9701.31	9698.05	9694.84	9691.74	9688.80	9686.06	9683.57
28.5	9240.11	9237.92	9235.69	9233.42	9230.46	9227.51	9224.60	9221.79	9219.12	9216.63
29.0	8774.77	8773.04	8771.24	8769.36	8766.76	8764.11	8761.47	8758.86	8756.35	8753.95
29.5	8317.29	8315.97	8314.53	8312.98	8310.62	8308.16	8305.67	8303.18	8300.74	8298.38
30.0	7868.27	7867.30	7866.20	7864.96	7862.82	7860.56	7858.24	7855.89	7853.55	7851.28
30.5	7428.76	7428.18	7427.45	7426.57	7424.75	7422.79	7420.74	7418.64	7416.53	7414.45
31.0	7001.14	7000.84	7000.40	6999.80	6998.30	6996.65	6994.90	6993.08	6991.23	6989.39
31.5	6587.61	6587.30	6586.84	6586.25	6585.02	6583.67	6582.22	6580.69	6579.12	6577.53

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32.0	6189.64	6189.35	6188.92	6188.35	6187.34	6186.20	6184.95	6183.63	6182.24	6180.81
32.5	5809.84	5810.04	5810.05	5809.86	5808.93	5807.80	5806.51	5805.08	5803.54	5801.91
33.0	5447.03	5447.71	5448.16	5448.35	5447.48	5446.36	5445.02	5443.49	5441.81	5440.00
33.5	5099.93	5100.61	5101.06	5101.28	5100.63	5099.74	5098.65	5097.37	5095.94	5094.37
34.0	4771.44	4772.08	4772.51	4772.72	4772.28	4771.62	4770.77	4769.74	4768.56	4767.24
34.5	4464.04	4465.02	4465.77	4466.27	4465.86	4465.20	4464.31	4463.22	4461.94	4460.51
35.0	4177.78	4179.08	4180.13	4180.89	4180.46	4179.73	4178.73	4177.50	4176.06	4174.44
35.5	3916.97	3918.24	3919.24	3919.94	3919.44	3918.64	3917.56	3916.25	3914.73	3913.05
36.0	3671.29	3672.42	3673.29	3673.86	3673.34	3672.54	3671.48	3670.19	3668.70	3667.06
36.5	3427.33	3428.35	3429.14	3429.67	3429.37	3428.82	3428.04	3427.04	3425.86	3424.51
37.0	3198.68	3199.64	3200.40	3200.93	3200.88	3200.60	3200.11	3199.43	3198.55	3197.51
37.5	2997.77	2998.84	2999.69	3000.33	3000.34	3000.12	2999.69	2999.05	2998.22	2997.22
38.0	2814.72	2815.87	2816.82	2817.53	2817.57	2817.38	2816.97	2816.34	2815.53	2814.53
38.5	2643.38	2644.40	2645.21	2645.83	2645.97	2645.89	2645.62	2645.16	2644.52	2643.70
39.0	2485.03	2485.86	2486.52	2487.02	2487.24	2487.28	2487.16	2486.87	2486.42	2485.81
39.5	2339.53	2340.29	2340.91	2341.37	2341.60	2341.67	2341.59	2341.37	2340.99	2340.47
40.0	2204.93	2205.65	2206.24	2206.71	2206.96	2207.08	2207.07	2206.93	2206.66	2206.26
40.5	2079.04	2079.72	2080.30	2080.79	2081.20	2081.51	2081.71	2081.81	2081.81	2081.69
41.0	1962.49	1963.07	1963.60	1964.09	1964.66	1965.18	1965.63	1966.00	1966.29	1966.48
41.5	1855.55	1855.92	1856.29	1856.64	1857.28	1857.91	1858.50	1859.04	1859.53	1859.94
42.0	1757.00	1757.12	1757.27	1757.46	1758.19	1758.95	1759.71	1760.47	1761.18	1761.85
42.5	1666.07	1665.83	1665.68	1665.64	1666.69	1667.85	1669.07	1670.32	1671.55	1672.74
43.0	1581.67	1581.28	1581.01	1580.90	1582.14	1583.53	1585.02	1586.55	1588.09	1589.58
43.5	1502.63	1502.88	1503.18	1503.55	1504.33	1505.17	1506.04	1506.93	1507.83	1508.71
44.0	1428.42	1429.25	1430.09	1430.90	1431.22	1431.51	1431.78	1432.04	1432.31	1432.60
44.5	1357.71	1358.18	1358.69	1359.25	1359.78	1360.34	1360.94	1361.57	1362.23	1362.92
45.0	1291.70	1291.64	1291.70	1291.89	1292.75	1293.73	1294.82	1295.98	1297.20	1298.45
45.5	1231.62	1231.48	1231.48	1231.63	1232.54	1233.60	1234.77	1236.03	1237.36	1238.73
46.0	1176.02	1175.93	1175.97	1176.17	1177.06	1178.08	1179.23	1180.46	1181.77	1183.13
46.5	1123.95	1123.90	1123.99	1124.23	1125.07	1126.05	1127.15	1128.35	1129.62	1130.95
47.0	1075.12	1075.11	1075.25	1075.52	1076.32	1077.25	1078.29	1079.44	1080.67	1081.96
47.5	1028.90	1028.90	1029.03	1029.31	1030.09	1031.00	1032.04	1033.18	1034.40	1035.70
48.0	985.34	985.33	985.45	985.73	986.49	987.39	988.42	989.55	990.78	992.09
48.5	944.39	944.36	944.48	944.75	945.48	946.36	947.36	948.47	949.68	950.98
49.0	905.73	905.70	905.81	906.07	906.77	907.61	908.59	909.67	910.85	912.12
49.5	869.06	869.03	869.14	869.39	870.06	870.86	871.80	872.84	874.00	875.24
50.0	834.33	834.30	834.42	834.68	835.31	836.08	836.98	838.00	839.12	840.33
50.5	801.43	801.45	801.60	801.89	802.52	803.28	804.16	805.15	806.25	807.44
51.0	770.19	770.24	770.43	770.75	771.36	772.10	772.96	773.92	774.99	776.15
51.5	740.46	740.51	740.68	740.98	741.54	742.21	743.00	743.89	744.89	745.97
52.0	712.07	712.10	712.25	712.52	713.01	713.62	714.33	715.16	716.08	717.10
52.5	684.74	684.75	684.88	685.13	685.60	686.19	686.89	687.70	688.61	689.61
53.0	658.61	658.61	658.72	658.96	659.41	659.98	660.67	661.45	662.34	663.32
53.5	633.83	633.87	634.01	634.25	634.65	635.15	635.75	636.44	637.24	638.12
54.0	610.03	610.10	610.25	610.50	610.84	611.26	611.78	612.39	613.09	613.88
54.5	586.82	586.85	586.97	587.18	587.49	587.89	588.38	588.96	589.64	590.40
55.0	564.37	564.35	564.42	564.59	564.87	565.26	565.73	566.30	566.95	567.70
55.5	542.72	542.68	542.74	542.88	543.12	543.46	543.89	544.41	545.02	545.72
56.0	521.84	521.79	521.83	521.94	522.15	522.44	522.82	523.28	523.84	524.49
56.5	501.75	501.67	501.67	501.75	501.93	502.19	502.53	502.96	503.48	504.09
57.0	482.33	482.23	482.19	482.24	482.38	482.60	482.91	483.30	483.78	484.34
57.5	463.46	463.35	463.30	463.33	463.41	463.57	463.80	464.12	464.53	465.02
58.0	445.16	445.04	444.99	444.99	445.02	445.11	445.28	445.53	445.86	446.28
58.5	427.42	427.27	427.19	427.16	427.15	427.21	427.35	427.56	427.85	428.23
59.0	410.25	410.08	409.96	409.90	409.87	409.90	410.00	410.18	410.44	410.79
59.5	393.69	393.50	393.35	393.26	393.19	393.18	393.23	393.36	393.57	393.87

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60.0	377.72	377.53	377.37	377.25	377.14	377.08	377.08	377.16	377.31	377.56
60.5	362.41	362.24	362.11	362.01	361.84	361.73	361.67	361.68	361.76	361.92
61.0	347.59	347.45	347.34	347.24	347.05	346.89	346.78	346.73	346.76	346.86
61.5	333.12	332.92	332.75	332.61	332.42	332.27	332.17	332.13	332.17	332.29
62.0	319.13	318.88	318.67	318.48	318.29	318.15	318.06	318.03	318.08	318.20
62.5	305.73	305.54	305.36	305.20	304.97	304.77	304.62	304.52	304.49	304.54
63.0	292.87	292.74	292.61	292.50	292.22	291.96	291.73	291.55	291.43	291.39
63.5	280.54	280.42	280.30	280.19	279.88	279.59	279.33	279.12	278.96	278.87
64.0	268.70	268.58	268.45	268.32	268.01	267.70	267.43	267.19	267.01	266.90
64.5	257.29	257.16	257.03	256.90	256.57	256.26	255.97	255.72	255.52	255.38
65.0	246.35	246.22	246.09	245.95	245.62	245.29	244.99	244.73	244.51	244.36
65.5	235.93	235.80	235.66	235.52	235.18	234.85	234.53	234.25	234.02	233.85
66.0	226.00	225.87	225.73	225.58	225.23	224.89	224.56	224.26	224.01	223.82
66.5	216.57	216.44	216.29	216.13	215.77	215.41	215.06	214.75	214.48	214.27
67.0	207.57	207.43	207.28	207.12	206.74	206.37	206.01	205.68	205.40	205.17
67.5	198.95	198.81	198.65	198.48	198.10	197.73	197.37	197.04	196.75	196.52
68.0	190.67	190.52	190.35	190.18	189.81	189.44	189.09	188.77	188.48	188.24
68.5	182.67	182.52	182.35	182.17	181.82	181.47	181.13	180.81	180.53	180.30
69.0	174.92	174.77	174.61	174.43	174.09	173.75	173.42	173.11	172.83	172.60
69.5	167.37	167.25	167.11	166.95	166.60	166.24	165.89	165.55	165.25	164.99
70.0	159.97	159.88	159.76	159.63	159.27	158.90	158.53	158.17	157.85	157.56
70.5	152.65	152.56	152.45	152.31	151.98	151.63	151.28	150.95	150.64	150.36
71.0	145.46	145.37	145.26	145.14	144.83	144.52	144.20	143.90	143.62	143.37
71.5	138.45	138.39	138.31	138.21	137.93	137.64	137.35	137.07	136.80	136.56
72.0	131.61	131.57	131.52	131.45	131.20	130.93	130.67	130.40	130.16	129.93
72.5	124.96	124.92	124.86	124.79	124.57	124.34	124.10	123.87	123.65	123.45
73.0	118.49	118.44	118.38	118.31	118.11	117.90	117.69	117.49	117.30	117.13
73.5	112.21	112.15	112.09	112.01	111.83	111.65	111.46	111.28	111.11	110.96
74.0	106.13	106.07	106.00	105.93	105.77	105.60	105.43	105.27	105.12	104.99
74.5	100.26	100.21	100.15	100.08	99.94	99.80	99.65	99.52	99.39	99.28
75.0	94.60	94.55	94.50	94.45	94.33	94.21	94.09	93.97	93.87	93.78
75.5	89.13	89.10	89.06	89.02	88.92	88.81	88.71	88.62	88.53	88.45
76.0	83.86	83.83	83.80	83.77	83.69	83.60	83.52	83.44	83.37	83.30
76.5	78.77	78.74	78.71	78.68	78.62	78.55	78.48	78.42	78.36	78.31
77.0	73.87	73.84	73.81	73.78	73.73	73.67	73.62	73.58	73.54	73.50
77.5	69.17	69.15	69.13	69.11	69.07	69.03	68.99	68.95	68.91	68.88
78.0	64.60	64.59	64.59	64.58	64.55	64.52	64.49	64.46	64.42	64.39
78.5	60.08	60.08	60.09	60.09	60.07	60.05	60.03	60.02	60.00	59.98
79.0	55.70	55.71	55.71	55.72	55.71	55.71	55.70	55.69	55.68	55.68
79.5	51.52	51.53	51.54	51.55	51.55	51.55	51.55	51.54	51.53	51.53
80.0	47.47	47.49	47.50	47.52	47.52	47.51	47.51	47.51	47.50	47.50
80.5	43.51	43.53	43.54	43.56	43.56	43.56	43.56	43.56	43.56	43.56
81.0	39.62	39.64	39.65	39.66	39.67	39.67	39.68	39.69	39.69	39.69
81.5	35.77	35.78	35.79	35.81	35.82	35.84	35.85	35.86	35.87	35.88
82.0	31.93	31.95	31.96	31.98	32.00	32.02	32.04	32.06	32.08	32.10
82.5	28.08	28.09	28.10	28.12	28.15	28.18	28.21	28.24	28.27	28.30
83.0	24.28	24.28	24.29	24.31	24.35	24.39	24.43	24.47	24.51	24.55
83.5	20.60	20.61	20.62	20.64	20.68	20.73	20.77	20.82	20.86	20.90
84.0	17.04	17.06	17.08	17.10	17.14	17.19	17.23	17.28	17.32	17.35
84.5	13.59	13.62	13.65	13.68	13.72	13.76	13.80	13.84	13.87	13.90
85.0	10.35	10.38	10.42	10.46	10.50	10.53	10.57	10.60	10.63	10.66
85.5	7.28	7.33	7.37	7.41	7.45	7.50	7.55	7.59	7.63	7.67
86.0	4.71	4.75	4.79	4.83	4.88	4.94	4.99	5.04	5.09	5.14
86.5	2.99	3.02	3.05	3.08	3.12	3.17	3.21	3.25	3.29	3.33
87.0	1.91	1.93	1.95	1.97	2.00	2.03	2.05	2.08	2.11	2.13
87.5	1.51	1.52	1.53	1.55	1.56	1.57	1.59	1.60	1.62	1.63

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88.0	1.44	1.45	1.46	1.46	1.47	1.47	1.48	1.48	1.48	1.48
88.5	1.37	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
89.0	1.36	1.36	1.36	1.37	1.36	1.36	1.36	1.36	1.36	1.35
89.5	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
90.0	1.36	1.36	1.36	1.36	1.36	1.37	1.37	1.37	1.37	1.37

Vert. Horizontal Angles

	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19828.05	19828.01	19827.98	19828.01	19828.05	19828.08	19828.11	19828.13	19828.15	19828.17
1.0	19830.14	19830.09	19830.03	19830.09	19830.14	19830.20	19830.25	19830.29	19830.32	19830.35
1.5	19833.76	19833.69	19833.62	19833.69	19833.76	19833.82	19833.88	19833.93	19833.97	19834.00
2.0	19837.12	19837.04	19836.96	19837.04	19837.12	19837.19	19837.25	19837.31	19837.35	19837.39
2.5	19838.78	19838.70	19838.60	19838.70	19838.78	19838.85	19838.92	19838.97	19839.01	19839.05
3.0	19838.40	19838.30	19838.20	19838.30	19838.40	19838.48	19838.56	19838.62	19838.68	19838.73
3.5	19835.12	19834.98	19834.84	19834.98	19835.12	19835.25	19835.38	19835.50	19835.63	19835.76
4.0	19829.08	19828.93	19828.79	19828.93	19829.08	19829.23	19829.40	19829.57	19829.76	19829.96
4.5	19820.06	19820.00	19819.96	19820.00	19820.06	19820.15	19820.27	19820.41	19820.57	19820.76
5.0	19808.32	19808.38	19808.48	19808.38	19808.32	19808.31	19808.34	19808.42	19808.54	19808.69
5.5	19793.87	19794.04	19794.28	19794.04	19793.87	19793.76	19793.73	19793.75	19793.84	19793.98
6.0	19777.16	19777.46	19777.85	19777.46	19777.16	19776.95	19776.82	19776.78	19776.81	19776.91
6.5	19758.90	19759.36	19759.92	19759.36	19758.90	19758.52	19758.24	19758.04	19757.93	19757.91
7.0	19738.41	19739.01	19739.70	19739.01	19738.41	19737.89	19737.47	19737.14	19736.91	19736.77
7.5	19715.35	19715.97	19716.68	19715.97	19715.35	19714.82	19714.40	19714.07	19713.85	19713.73
8.0	19689.40	19690.00	19690.71	19690.00	19689.40	19688.90	19688.51	19688.22	19688.03	19687.95
8.5	19660.65	19661.24	19661.93	19661.24	19660.65	19660.16	19659.77	19659.48	19659.29	19659.22
9.0	19627.56	19628.17	19628.86	19628.17	19627.56	19627.05	19626.63	19626.32	19626.10	19625.99
9.5	19588.71	19589.43	19590.22	19589.43	19588.71	19588.09	19587.56	19587.13	19586.82	19586.63
10.0	19543.87	19544.70	19545.60	19544.70	19543.87	19543.13	19542.49	19541.96	19541.55	19541.27
10.5	19492.57	19493.43	19494.37	19493.43	19492.57	19491.80	19491.15	19490.60	19490.17	19489.88
11.0	19434.10	19434.97	19435.94	19434.97	19434.10	19433.33	19432.67	19432.13	19431.71	19431.42
11.5	19367.88	19368.79	19369.80	19368.79	19367.88	19367.09	19366.41	19365.85	19365.42	19365.13
12.0	19293.06	19294.03	19295.11	19294.03	19293.06	19292.21	19291.49	19290.91	19290.45	19290.14
12.5	19208.68	19209.76	19210.98	19209.76	19208.68	19207.74	19206.95	19206.30	19205.81	19205.47
13.0	19114.47	19115.71	19117.09	19115.71	19114.47	19113.39	19112.47	19111.71	19111.13	19110.73
13.5	19010.51	19011.94	19013.51	19011.94	19010.51	19009.23	19008.11	19007.16	19006.38	19005.79
14.0	18894.76	18896.42	18898.20	18896.42	18894.76	18893.23	18891.87	18890.66	18889.64	18888.81
14.5	18765.37	18767.33	18769.39	18767.33	18765.37	18763.53	18761.84	18760.32	18758.97	18757.84
15.0	18621.84	18624.07	18626.38	18624.07	18621.84	18619.73	18617.76	18615.96	18614.35	18612.95
15.5	18463.24	18465.55	18467.97	18465.55	18463.24	18461.05	18459.02	18457.16	18455.50	18454.07
16.0	18289.04	18291.43	18293.95	18291.43	18289.04	18286.79	18284.71	18282.81	18281.13	18279.69
16.5	18098.45	18101.10	18103.87	18101.10	18098.45	18095.96	18093.64	18091.53	18089.64	18088.02
17.0	17891.32	17894.22	17897.25	17894.22	17891.32	17888.58	17886.03	17883.70	17881.63	17879.85
17.5	17667.13	17670.20	17673.43	17670.20	17667.13	17664.24	17661.58	17659.18	17657.08	17655.31
18.0	17426.07	17429.20	17432.54	17429.20	17426.07	17423.16	17420.52	17418.19	17416.19	17414.57
18.5	17168.15	17171.11	17174.31	17171.11	17168.15	17165.48	17163.12	17161.09	17159.44	17158.18
19.0	16893.38	16896.13	16899.18	16896.13	16893.38	16890.98	16888.93	16887.25	16885.97	16885.11
19.5	16601.53	16604.31	16607.42	16604.31	16601.53	16599.12	16597.11	16595.51	16594.36	16593.68
20.0	16293.34	16296.07	16299.17	16296.07	16293.34	16291.02	16289.14	16287.72	16286.80	16286.39
20.5	15969.28	15971.53	15974.23	15971.53	15969.28	15967.52	15966.24	15965.48	15965.25	15965.57
21.0	15630.00	15631.64	15633.83	15631.64	15630.00	15628.90	15628.35	15628.35	15628.90	15629.99
21.5	15276.48	15277.61	15279.30	15277.61	15276.48	15275.91	15275.90	15276.42	15277.49	15279.09
22.0	14908.21	14908.85	14910.08	14908.85	14908.21	14908.13	14908.61	14909.63	14911.18	14913.25
22.5	14523.71	14523.95	14524.83	14523.95	14523.71	14524.11	14525.12	14526.72	14528.88	14531.58
23.0	14126.85	14126.71	14127.29	14126.71	14126.85	14127.69	14129.19	14131.31	14134.03	14137.30

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23.5	13721.62	13721.11	13721.32	13721.11	13721.62	13722.84	13724.71	13727.19	13730.25	13733.84
24.0	13306.16	13305.30	13305.17	13305.30	13306.16	13307.71	13309.89	13312.66	13315.97	13319.76
24.5	12879.46	12878.30	12877.87	12878.30	12879.46	12881.31	12883.79	12886.83	12890.39	12894.41
25.0	12442.99	12441.55	12440.84	12441.55	12442.99	12445.10	12447.82	12451.07	12454.81	12458.96
25.5	11997.45	11995.67	11994.58	11995.67	11997.45	11999.84	12002.78	12006.19	12010.02	12014.20
26.0	11544.12	11542.17	11540.82	11542.17	11544.12	11546.61	11549.57	11552.95	11556.68	11560.69
26.5	11083.80	11082.21	11081.11	11082.21	11083.80	11085.83	11088.26	11091.07	11094.19	11097.59
27.0	10618.67	10617.43	10616.58	10617.43	10618.67	10620.27	10622.22	10624.49	10627.05	10629.90
27.5	10150.28	10148.78	10147.66	10148.78	10150.28	10152.12	10154.29	10156.74	10159.44	10162.37
28.0	9681.36	9679.50	9678.02	9679.50	9681.36	9683.57	9686.06	9688.80	9691.74	9694.84
28.5	9214.38	9212.40	9210.75	9212.40	9214.38	9216.63	9219.12	9221.79	9224.60	9227.51
29.0	8751.73	8749.72	8747.96	8749.72	8751.73	8753.95	8756.35	8758.86	8761.47	8764.11
29.5	8296.16	8294.11	8292.27	8294.11	8296.16	8298.38	8300.74	8303.18	8305.67	8308.16
30.0	7849.10	7847.06	7845.21	7847.06	7849.10	7851.28	7853.55	7855.89	7858.24	7860.56
30.5	7412.44	7410.54	7408.79	7410.54	7412.44	7414.45	7416.53	7418.64	7420.74	7422.79
31.0	6987.58	6985.85	6984.23	6985.85	6987.58	6989.39	6991.23	6993.08	6994.90	6996.65
31.5	6575.95	6574.41	6572.93	6574.41	6575.95	6577.53	6579.12	6580.69	6582.22	6583.67
32.0	6179.35	6177.90	6176.46	6177.90	6179.35	6180.81	6182.24	6183.63	6184.95	6186.20
32.5	5800.23	5798.52	5796.79	5798.52	5800.23	5801.91	5803.54	5805.08	5806.51	5807.80
33.0	5438.10	5436.14	5434.16	5436.14	5438.10	5440.00	5441.81	5443.49	5445.02	5446.36
33.5	5092.70	5090.94	5089.13	5090.94	5092.70	5094.37	5095.94	5097.37	5098.65	5099.74
34.0	4765.81	4764.27	4762.65	4764.27	4765.81	4767.24	4768.56	4769.74	4770.77	4771.62
34.5	4458.94	4457.25	4455.48	4457.25	4458.94	4460.51	4461.94	4463.22	4464.31	4465.20
35.0	4172.68	4170.80	4168.83	4170.80	4172.68	4174.44	4176.06	4177.50	4178.73	4179.73
35.5	3911.22	3909.28	3907.27	3909.28	3911.22	3913.05	3914.73	3916.25	3917.56	3918.64
36.0	3665.28	3663.39	3661.44	3663.39	3665.28	3667.06	3668.70	3670.19	3671.48	3672.54
36.5	3423.01	3421.39	3419.66	3421.39	3423.01	3424.51	3425.86	3427.04	3428.04	3428.82
37.0	3196.30	3194.94	3193.45	3194.94	3196.30	3197.51	3198.55	3199.43	3200.11	3200.60
37.5	2996.04	2994.71	2993.23	2994.71	2996.04	2997.22	2998.22	2999.05	2999.69	3000.12
38.0	2813.36	2812.04	2810.58	2812.04	2813.36	2814.53	2815.53	2816.34	2816.97	2817.38
38.5	2642.72	2641.58	2640.29	2641.58	2642.72	2643.70	2644.52	2645.16	2645.62	2645.89
39.0	2485.03	2484.10	2483.02	2484.10	2485.03	2485.81	2486.42	2486.87	2487.16	2487.28
39.5	2339.81	2339.01	2338.07	2339.01	2339.81	2340.47	2340.99	2341.37	2341.59	2341.67
40.0	2205.74	2205.09	2204.32	2205.09	2205.74	2206.26	2206.66	2206.93	2207.07	2207.08
40.5	2081.45	2081.09	2080.61	2081.09	2081.45	2081.69	2081.81	2081.81	2081.71	2081.51
41.0	1966.56	1966.52	1966.36	1966.52	1966.56	1966.48	1966.29	1966.00	1965.63	1965.18
41.5	1860.26	1860.48	1860.57	1860.48	1860.26	1859.94	1859.53	1859.04	1858.50	1857.91
42.0	1762.43	1762.92	1763.28	1762.92	1762.43	1761.85	1761.18	1760.47	1759.71	1758.95
42.5	1673.83	1674.79	1675.58	1674.79	1673.83	1672.74	1671.55	1670.32	1669.07	1667.85
43.0	1590.99	1592.24	1593.31	1592.24	1590.99	1589.58	1588.09	1586.55	1585.02	1583.53
43.5	1509.56	1510.36	1511.09	1510.36	1509.56	1508.71	1507.83	1506.93	1506.04	1505.17
44.0	1432.91	1433.27	1433.68	1433.27	1432.91	1432.60	1432.31	1432.04	1431.78	1431.51
44.5	1363.63	1364.36	1365.12	1364.36	1363.63	1362.92	1362.23	1361.57	1360.94	1360.34
45.0	1299.70	1300.95	1302.15	1300.95	1299.70	1298.45	1297.20	1295.98	1294.82	1293.73
45.5	1240.11	1241.47	1242.80	1241.47	1240.11	1238.73	1237.36	1236.03	1234.77	1233.60
46.0	1184.51	1185.89	1187.24	1185.89	1184.51	1183.13	1181.77	1180.46	1179.23	1178.08
46.5	1132.32	1133.69	1135.06	1133.69	1132.32	1130.95	1129.62	1128.35	1127.15	1126.05
47.0	1083.29	1084.66	1086.03	1084.66	1083.29	1081.96	1080.67	1079.44	1078.29	1077.25
47.5	1037.05	1038.44	1039.86	1038.44	1037.05	1035.70	1034.40	1033.18	1032.04	1031.00
48.0	993.46	994.88	996.33	994.88	993.46	992.09	990.78	989.55	988.42	987.39
48.5	952.34	953.75	955.20	953.75	952.34	950.98	949.68	948.47	947.36	946.36
49.0	913.46	914.86	916.29	914.86	913.46	912.12	910.85	909.67	908.59	907.61
49.5	876.56	877.95	879.39	877.95	876.56	875.24	874.00	872.84	871.80	870.86
50.0	841.64	843.01	844.45	843.01	841.64	840.33	839.12	838.00	836.98	836.08
50.5	808.72	810.07	811.48	810.07	808.72	807.44	806.25	805.15	804.16	803.28
51.0	777.38	778.69	780.07	778.69	777.38	776.15	774.99	773.92	772.96	772.10

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51.5	747.14	748.39	749.71	748.39	747.14	745.97	744.89	743.89	743.00	742.21
52.0	718.21	719.40	720.67	719.40	718.21	717.10	716.08	715.16	714.33	713.62
52.5	690.70	691.88	693.14	691.88	690.70	689.61	688.61	687.70	686.89	686.19
53.0	664.39	665.55	666.79	665.55	664.39	663.32	662.34	661.45	660.67	659.98
53.5	639.10	640.16	641.31	640.16	639.10	638.12	637.24	636.44	635.75	635.15
54.0	614.75	615.72	616.77	615.72	614.75	613.88	613.09	612.39	611.78	611.26
54.5	591.25	592.18	593.21	592.18	591.25	590.40	589.64	588.96	588.38	587.89
55.0	568.53	569.45	570.46	569.45	568.53	567.70	566.95	566.30	565.73	565.26
55.5	546.51	547.38	548.35	547.38	546.51	545.72	545.02	544.41	543.89	543.46
56.0	525.23	526.06	526.99	526.06	525.23	524.49	523.84	523.28	522.82	522.44
56.5	504.80	505.59	506.48	505.59	504.80	504.09	503.48	502.96	502.53	502.19
57.0	485.00	485.75	486.59	485.75	485.00	484.34	483.78	483.30	482.91	482.60
57.5	465.61	466.29	467.07	466.29	465.61	465.02	464.53	464.12	463.80	463.57
58.0	446.80	447.41	448.13	447.41	446.80	446.28	445.86	445.53	445.28	445.11
58.5	428.71	429.29	429.97	429.29	428.71	428.23	427.85	427.56	427.35	427.21
59.0	411.23	411.78	412.42	411.78	411.23	410.79	410.44	410.18	410.00	409.90
59.5	394.27	394.76	395.37	394.76	394.27	393.87	393.57	393.36	393.23	393.18
60.0	377.89	378.33	378.88	378.33	377.89	377.56	377.31	377.16	377.08	377.08
60.5	362.19	362.55	363.03	362.55	362.19	361.92	361.76	361.68	361.67	361.73
61.0	347.06	347.37	347.79	347.37	347.06	346.86	346.76	346.73	346.78	346.89
61.5	332.50	332.82	333.25	332.82	332.50	332.29	332.17	332.13	332.17	332.27
62.0	318.42	318.75	319.17	318.75	318.42	318.20	318.08	318.03	318.06	318.15
62.5	304.67	304.91	305.26	304.91	304.67	304.54	304.49	304.52	304.62	304.77
63.0	291.43	291.58	291.83	291.58	291.43	291.39	291.43	291.55	291.73	291.96
63.5	278.87	278.97	279.18	278.97	278.87	278.87	278.96	279.12	279.33	279.59
64.0	266.87	266.94	267.11	266.94	266.87	266.90	267.01	267.19	267.43	267.70
64.5	255.33	255.37	255.52	255.37	255.33	255.38	255.52	255.72	255.97	256.26
65.0	244.29	244.31	244.43	244.31	244.29	244.36	244.51	244.73	244.99	245.29
65.5	233.76	233.75	233.85	233.75	233.76	233.85	234.02	234.25	234.53	234.85
66.0	223.71	223.68	223.75	223.68	223.71	223.82	224.01	224.26	224.56	224.89
66.5	214.13	214.08	214.13	214.08	214.13	214.27	214.48	214.75	215.06	215.41
67.0	205.01	204.94	204.97	204.94	205.01	205.17	205.40	205.68	206.01	206.37
67.5	196.35	196.27	196.28	196.27	196.35	196.52	196.75	197.04	197.37	197.73
68.0	188.07	187.98	187.98	187.98	188.07	188.24	188.48	188.77	189.09	189.44
68.5	180.13	180.04	180.03	180.04	180.13	180.30	180.53	180.81	181.13	181.47
69.0	172.42	172.32	172.29	172.32	172.42	172.60	172.83	173.11	173.42	173.75
69.5	164.78	164.65	164.59	164.65	164.78	164.99	165.25	165.55	165.89	166.24
70.0	157.33	157.16	157.08	157.16	157.33	157.56	157.85	158.17	158.53	158.90
70.5	150.14	149.98	149.88	149.98	150.14	150.36	150.64	150.95	151.28	151.63
71.0	143.16	143.01	142.92	143.01	143.16	143.37	143.62	143.90	144.20	144.52
71.5	136.36	136.21	136.12	136.21	136.36	136.56	136.80	137.07	137.35	137.64
72.0	129.74	129.59	129.50	129.59	129.74	129.93	130.16	130.40	130.67	130.93
72.5	123.28	123.15	123.06	123.15	123.28	123.45	123.65	123.87	124.10	124.34
73.0	116.99	116.87	116.80	116.87	116.99	117.13	117.30	117.49	117.69	117.90
73.5	110.84	110.74	110.68	110.74	110.84	110.96	111.11	111.28	111.46	111.65
74.0	104.89	104.80	104.75	104.80	104.89	104.99	105.12	105.27	105.43	105.60
74.5	99.19	99.12	99.08	99.12	99.19	99.28	99.39	99.52	99.65	99.80
75.0	93.70	93.64	93.61	93.64	93.70	93.78	93.87	93.97	94.09	94.21
75.5	88.38	88.33	88.30	88.33	88.38	88.45	88.53	88.62	88.71	88.81
76.0	83.24	83.20	83.16	83.20	83.24	83.30	83.37	83.44	83.52	83.60
76.5	78.27	78.24	78.22	78.24	78.27	78.31	78.36	78.42	78.48	78.55
77.0	73.47	73.45	73.43	73.45	73.47	73.50	73.54	73.58	73.62	73.67
77.5	68.85	68.83	68.81	68.83	68.85	68.88	68.91	68.95	68.99	69.03
78.0	64.37	64.34	64.32	64.34	64.37	64.39	64.42	64.46	64.49	64.52
78.5	59.96	59.94	59.93	59.94	59.96	59.98	60.00	60.02	60.03	60.05
79.0	55.67	55.66	55.65	55.66	55.67	55.68	55.68	55.69	55.70	55.71

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CANDELA TABULATION - (Cont.)

79.5	51.52	51.52	51.51	51.52	51.52	51.53	51.53	51.54	51.55	51.55
80.0	47.49	47.48	47.48	47.48	47.49	47.50	47.50	47.51	47.51	47.51
80.5	43.56	43.55	43.55	43.55	43.56	43.56	43.56	43.56	43.56	43.56
81.0	39.69	39.70	39.70	39.70	39.69	39.69	39.69	39.69	39.68	39.67
81.5	35.89	35.89	35.90	35.89	35.89	35.88	35.87	35.86	35.85	35.84
82.0	32.12	32.13	32.14	32.13	32.12	32.10	32.08	32.06	32.04	32.02
82.5	28.33	28.35	28.37	28.35	28.33	28.30	28.27	28.24	28.21	28.18
83.0	24.59	24.62	24.64	24.62	24.59	24.55	24.51	24.47	24.43	24.39
83.5	20.93	20.96	20.98	20.96	20.93	20.90	20.86	20.82	20.77	20.73
84.0	17.38	17.41	17.42	17.41	17.38	17.35	17.32	17.28	17.23	17.19
84.5	13.92	13.94	13.95	13.94	13.92	13.90	13.87	13.84	13.80	13.76
85.0	10.68	10.69	10.70	10.69	10.68	10.66	10.63	10.60	10.57	10.53
85.5	7.70	7.73	7.76	7.73	7.70	7.67	7.63	7.59	7.55	7.50
86.0	5.18	5.23	5.26	5.23	5.18	5.14	5.09	5.04	4.99	4.94
86.5	3.37	3.40	3.44	3.40	3.37	3.33	3.29	3.25	3.21	3.17
87.0	2.16	2.18	2.20	2.18	2.16	2.13	2.11	2.08	2.05	2.03
87.5	1.64	1.65	1.67	1.65	1.64	1.63	1.62	1.60	1.59	1.57
88.0	1.49	1.49	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.47
88.5	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
89.0	1.35	1.35	1.35	1.35	1.35	1.35	1.36	1.36	1.36	1.36
89.5	1.34	1.34	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.35
90.0	1.38	1.38	1.38	1.38	1.38	1.37	1.37	1.37	1.37	1.37

**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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19828.18	19828.18	19828.13	19828.07	19828.00	19827.93	19827.87	19827.80	19827.73	19827.68
1.0	19830.37	19830.37	19830.30	19830.22	19830.13	19830.03	19829.93	19829.82	19829.72	19829.63
1.5	19834.02	19834.03	19833.98	19833.92	19833.85	19833.77	19833.67	19833.57	19833.45	19833.33
2.0	19837.41	19837.42	19837.42	19837.41	19837.38	19837.34	19837.28	19837.20	19837.10	19836.97
2.5	19839.07	19839.09	19839.13	19839.16	19839.18	19839.18	19839.17	19839.14	19839.08	19839.01
3.0	19838.78	19838.82	19838.91	19839.00	19839.08	19839.15	19839.21	19839.25	19839.28	19839.28
3.5	19835.88	19836.02	19836.21	19836.41	19836.60	19836.78	19836.96	19837.11	19837.24	19837.36
4.0	19830.16	19830.38	19830.66	19830.96	19831.25	19831.53	19831.81	19832.08	19832.32	19832.54
4.5	19820.97	19821.20	19821.47	19821.77	19822.08	19822.39	19822.71	19823.03	19823.35	19823.66
5.0	19808.88	19809.10	19809.35	19809.63	19809.94	19810.27	19810.62	19810.99	19811.38	19811.78
5.5	19794.17	19794.41	19794.68	19795.00	19795.34	19795.73	19796.15	19796.60	19797.08	19797.59
6.0	19777.09	19777.33	19777.61	19777.96	19778.36	19778.81	19779.31	19779.86	19780.45	19781.08
6.5	19757.98	19758.13	19758.42	19758.79	19759.23	19759.75	19760.34	19761.00	19761.72	19762.50
7.0	19736.74	19736.82	19737.09	19737.48	19737.96	19738.53	19739.20	19739.94	19740.77	19741.67
7.5	19713.71	19713.80	19714.07	19714.44	19714.91	19715.48	19716.15	19716.91	19717.76	19718.71
8.0	19687.98	19688.11	19688.37	19688.74	19689.21	19689.77	19690.45	19691.21	19692.07	19693.03
8.5	19659.25	19659.38	19659.69	19660.10	19660.62	19661.24	19661.96	19662.78	19663.68	19664.68
9.0	19626.00	19626.12	19626.49	19626.97	19627.56	19628.25	19629.05	19629.94	19630.92	19631.98
9.5	19586.56	19586.63	19587.06	19587.63	19588.32	19589.13	19590.05	19591.07	19592.18	19593.37
10.0	19541.13	19541.14	19541.61	19542.23	19542.99	19543.88	19544.88	19545.99	19547.20	19548.49
10.5	19489.72	19489.72	19490.11	19490.64	19491.32	19492.13	19493.07	19494.12	19495.28	19496.54
11.0	19431.26	19431.25	19431.54	19431.97	19432.54	19433.25	19434.09	19435.05	19436.13	19437.33
11.5	19364.97	19364.95	19365.19	19365.57	19366.10	19366.76	19367.55	19368.48	19369.54	19370.72
12.0	19289.97	19289.95	19290.18	19290.56	19291.08	19291.75	19292.55	19293.49	19294.55	19295.75
12.5	19205.30	19205.29	19205.60	19206.07	19206.69	19207.45	19208.36	19209.39	19210.55	19211.83
13.0	19110.50	19110.46	19110.83	19111.39	19112.10	19112.97	19113.98	19115.13	19116.38	19117.73
13.5	19005.40	19005.20	19005.54	19006.07	19006.78	19007.64	19008.66	19009.81	19011.07	19012.43
14.0	18888.18	18887.78	18888.04	18888.51	18889.17	18890.01	18891.01	18892.15	18893.41	18894.77
14.5	18756.94	18756.27	18756.45	18756.87	18757.51	18758.35	18759.38	18760.56	18761.88	18763.31

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15.0	18611.81	18610.93	18611.01	18611.37	18611.97	18612.80	18613.84	18615.05	18616.42	18617.93
15.5	18452.88	18451.97	18451.93	18452.17	18452.66	18453.39	18454.34	18455.48	18456.80	18458.28
16.0	18278.49	18277.57	18277.45	18277.61	18278.04	18278.71	18279.62	18280.74	18282.06	18283.56
16.5	18086.67	18085.63	18085.51	18085.71	18086.21	18086.99	18088.03	18089.32	18090.84	18092.58
17.0	17878.39	17877.28	17877.26	17877.61	17878.30	17879.31	17880.63	17882.23	17884.08	17886.17
17.5	17653.91	17652.91	17653.18	17653.87	17654.94	17656.37	17658.14	17660.22	17662.58	17665.20
18.0	17413.36	17412.60	17413.21	17414.26	17415.74	17417.62	17419.86	17422.44	17425.32	17428.49
18.5	17157.35	17156.96	17157.76	17159.03	17160.72	17162.82	17165.30	17168.15	17171.33	17174.83
19.0	16884.69	16884.73	16885.82	16887.37	16889.36	16891.77	16894.58	16897.77	16901.32	16905.20
19.5	16593.51	16593.86	16595.58	16597.83	16600.55	16603.73	16607.32	16611.29	16615.61	16620.24
20.0	16286.55	16287.29	16289.69	16292.66	16296.15	16300.11	16304.50	16309.26	16314.35	16319.72
20.5	15966.45	15967.90	15970.78	15974.21	15978.14	15982.53	15987.33	15992.51	15998.00	16003.78
21.0	15631.63	15633.82	15637.06	15640.82	15645.05	15649.71	15654.78	15660.20	15665.94	15671.97
21.5	15281.21	15283.85	15287.29	15291.22	15295.59	15300.39	15305.58	15311.13	15317.02	15323.21
22.0	14915.82	14918.88	14922.55	14926.67	14931.23	14936.19	14941.53	14947.24	14953.29	14959.65
22.5	14534.80	14538.51	14542.75	14547.43	14552.53	14558.02	14563.88	14570.06	14576.56	14583.33
23.0	14141.11	14145.41	14150.14	14155.30	14160.86	14166.78	14173.04	14179.60	14186.44	14193.52
23.5	13737.92	13742.45	13747.16	13752.25	13757.70	13763.49	13769.60	13775.99	13782.64	13789.54
24.0	13324.00	13328.63	13333.15	13338.00	13343.16	13348.62	13354.37	13360.39	13366.67	13373.20
24.5	12898.82	12903.58	12907.99	12912.67	12917.63	12922.83	12928.29	12933.99	12939.92	12946.07
25.0	12463.47	12468.26	12472.49	12476.95	12481.62	12486.51	12491.60	12496.90	12502.39	12508.09
25.5	12018.65	12023.32	12027.18	12031.19	12035.35	12039.67	12044.16	12048.82	12053.65	12058.67
26.0	11564.92	11569.31	11572.84	11576.47	11580.21	11584.07	11588.06	11592.19	11596.46	11600.88
26.5	11101.24	11105.07	11108.68	11112.43	11116.30	11120.30	11124.41	11128.61	11132.89	11137.24
27.0	10633.00	10636.33	10639.98	10643.81	10647.79	10651.88	10656.06	10660.29	10664.55	10668.81
27.5	10165.48	10168.76	10171.99	10175.33	10178.75	10182.25	10185.80	10189.38	10192.98	10196.58
28.0	9698.05	9701.31	9704.00	9706.71	9709.44	9712.18	9714.93	9717.70	9720.48	9723.27
28.5	9230.46	9233.42	9235.69	9237.92	9240.11	9242.27	9244.41	9246.52	9248.61	9250.68
29.0	8766.76	8769.36	8771.24	8773.04	8774.77	8776.42	8778.01	8779.54	8781.02	8782.45
29.5	8310.62	8312.98	8314.53	8315.97	8317.29	8318.53	8319.67	8320.75	8321.75	8322.70
30.0	7862.82	7864.96	7866.20	7867.30	7868.27	7869.13	7869.89	7870.57	7871.17	7871.73
30.5	7424.75	7426.57	7427.45	7428.18	7428.76	7429.23	7429.60	7429.88	7430.09	7430.26
31.0	6998.30	6999.80	7000.40	7000.84	7001.14	7001.31	7001.38	7001.35	7001.26	7001.11
31.5	6585.02	6586.25	6586.84	6587.30	6587.61	6587.79	6587.85	6587.79	6587.64	6587.38
32.0	6187.34	6188.35	6188.92	6189.35	6189.64	6189.79	6189.79	6189.66	6189.39	6188.98
32.5	5808.93	5809.86	5810.05	5810.04	5809.84	5809.46	5808.93	5808.24	5807.41	5806.47
33.0	5447.48	5448.35	5448.16	5447.71	5447.03	5446.14	5445.07	5443.85	5442.49	5441.04
33.5	5100.63	5101.28	5101.06	5100.61	5099.93	5099.04	5097.98	5096.75	5095.38	5093.89
34.0	4772.28	4772.72	4772.51	4772.08	4771.44	4770.61	4769.60	4768.42	4767.09	4765.61
34.5	4465.86	4466.27	4465.77	4465.02	4464.04	4462.85	4461.49	4459.96	4458.30	4456.53
35.0	4180.46	4180.89	4180.13	4179.08	4177.78	4176.25	4174.54	4172.67	4170.69	4168.63
35.5	3919.44	3919.94	3919.24	3918.24	3916.97	3915.46	3913.76	3911.88	3909.87	3907.76
36.0	3673.34	3673.86	3673.29	3672.42	3671.29	3669.92	3668.34	3666.57	3664.65	3662.59
36.5	3429.37	3429.67	3429.14	3428.35	3427.33	3426.09	3424.65	3423.03	3421.25	3419.33
37.0	3200.88	3200.93	3200.40	3199.64	3198.68	3197.52	3196.19	3194.68	3193.02	3191.22
37.5	3000.34	3000.33	2999.69	2998.84	2997.77	2996.50	2995.06	2993.46	2991.71	2989.83
38.0	2817.57	2817.53	2816.82	2815.87	2814.72	2813.37	2811.84	2810.16	2808.33	2806.39
38.5	2645.97	2645.83	2645.21	2644.40	2643.38	2642.20	2640.84	2639.33	2637.68	2635.90
39.0	2487.24	2487.02	2486.52	2485.86	2485.03	2484.05	2482.91	2481.63	2480.20	2478.64
39.5	2341.60	2341.37	2340.91	2340.29	2339.53	2338.62	2337.58	2336.40	2335.10	2333.67
40.0	2206.96	2206.71	2206.24	2205.65	2204.93	2204.08	2203.12	2202.05	2200.87	2199.58
40.5	2081.20	2080.79	2080.30	2079.72	2079.04	2078.28	2077.44	2076.52	2075.52	2074.45
41.0	1964.66	1964.09	1963.60	1963.07	1962.49	1961.86	1961.18	1960.45	1959.67	1958.85
41.5	1857.28	1856.64	1856.29	1855.92	1855.55	1855.14	1854.71	1854.25	1853.73	1853.17
42.0	1758.19	1757.46	1757.27	1757.12	1757.00	1756.87	1756.73	1756.56	1756.35	1756.08
42.5	1666.69	1665.64	1665.68	1665.83	1666.07	1666.35	1666.64	1666.92	1667.15	1667.30

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43.0	1582.14	1580.90	1581.01	1581.28	1581.67	1582.13	1582.63	1583.14	1583.61	1584.00
43.5	1504.33	1503.55	1503.18	1502.88	1502.63	1502.43	1502.28	1502.16	1502.07	1502.00
44.0	1431.22	1430.90	1430.09	1429.25	1428.42	1427.61	1426.85	1426.15	1425.54	1425.04
44.5	1359.78	1359.25	1358.69	1358.18	1357.71	1357.31	1356.97	1356.70	1356.50	1356.40
45.0	1292.75	1291.89	1291.70	1291.64	1291.70	1291.86	1292.11	1292.43	1292.81	1293.23
45.5	1232.54	1231.63	1231.48	1231.48	1231.62	1231.87	1232.22	1232.65	1233.15	1233.69
46.0	1177.06	1176.17	1175.97	1175.93	1176.02	1176.23	1176.54	1176.95	1177.44	1177.99
46.5	1125.07	1124.23	1123.99	1123.90	1123.95	1124.12	1124.40	1124.78	1125.25	1125.79
47.0	1076.32	1075.52	1075.25	1075.11	1075.12	1075.24	1075.48	1075.83	1076.27	1076.80
47.5	1030.09	1029.31	1029.03	1028.90	1028.90	1029.02	1029.27	1029.63	1030.09	1030.64
48.0	986.49	985.73	985.45	985.33	985.34	985.48	985.75	986.13	986.62	987.21
48.5	945.48	944.75	944.48	944.36	944.39	944.55	944.83	945.23	945.74	946.35
49.0	906.77	906.07	905.81	905.70	905.73	905.90	906.19	906.61	907.13	907.76
49.5	870.06	869.39	869.14	869.03	869.06	869.23	869.52	869.94	870.46	871.10
50.0	835.31	834.68	834.42	834.30	834.33	834.48	834.76	835.16	835.68	836.31
50.5	802.52	801.89	801.60	801.45	801.43	801.54	801.78	802.14	802.63	803.22
51.0	771.36	770.75	770.43	770.24	770.19	770.26	770.47	770.79	771.23	771.80
51.5	741.54	740.98	740.68	740.51	740.46	740.54	740.73	741.05	741.48	742.02
52.0	713.01	712.52	712.25	712.10	712.07	712.16	712.36	712.67	713.10	713.64
52.5	685.60	685.13	684.88	684.75	684.74	684.85	685.07	685.40	685.84	686.39
53.0	659.41	658.96	658.72	658.61	658.61	658.72	658.94	659.28	659.72	660.27
53.5	634.65	634.25	634.01	633.87	633.83	633.91	634.08	634.37	634.75	635.25
54.0	610.84	610.50	610.25	610.10	610.03	610.07	610.21	610.44	610.78	611.22
54.5	587.49	587.18	586.97	586.85	586.82	586.89	587.05	587.31	587.66	588.11
55.0	564.87	564.59	564.42	564.35	564.37	564.48	564.68	564.97	565.35	565.83
55.5	543.12	542.88	542.74	542.68	542.72	542.84	543.05	543.35	543.73	544.19
56.0	522.15	521.94	521.83	521.79	521.84	521.97	522.19	522.48	522.85	523.30
56.5	501.93	501.75	501.67	501.67	501.75	501.91	502.14	502.45	502.83	503.28
57.0	482.38	482.24	482.19	482.23	482.33	482.51	482.76	483.08	483.46	483.91
57.5	463.41	463.33	463.30	463.35	463.46	463.64	463.88	464.18	464.54	464.96
58.0	445.02	444.99	444.99	445.04	445.16	445.33	445.56	445.85	446.19	446.58
58.5	427.15	427.16	427.19	427.27	427.42	427.61	427.86	428.15	428.49	428.87
59.0	409.87	409.90	409.96	410.08	410.25	410.47	410.73	411.04	411.38	411.75
59.5	393.19	393.26	393.35	393.50	393.69	393.92	394.20	394.50	394.84	395.20
60.0	377.14	377.25	377.37	377.53	377.72	377.96	378.23	378.52	378.84	379.18
60.5	361.84	362.01	362.11	362.24	362.41	362.60	362.82	363.07	363.34	363.62
61.0	347.05	347.24	347.34	347.45	347.59	347.76	347.95	348.15	348.38	348.63
61.5	332.42	332.61	332.75	332.92	333.12	333.34	333.57	333.82	334.09	334.36
62.0	318.29	318.48	318.67	318.88	319.13	319.39	319.67	319.96	320.25	320.54
62.5	304.97	305.20	305.36	305.54	305.73	305.93	306.15	306.38	306.61	306.83
63.0	292.22	292.50	292.61	292.74	292.87	293.00	293.15	293.29	293.45	293.61
63.5	279.88	280.19	280.30	280.42	280.54	280.66	280.79	280.92	281.05	281.19
64.0	268.01	268.32	268.45	268.58	268.70	268.83	268.95	269.08	269.20	269.33
64.5	256.57	256.90	257.03	257.16	257.29	257.41	257.53	257.65	257.77	257.88
65.0	245.62	245.95	246.09	246.22	246.35	246.47	246.59	246.71	246.82	246.92
65.5	235.18	235.52	235.66	235.80	235.93	236.05	236.17	236.28	236.38	236.47
66.0	225.23	225.58	225.73	225.87	226.00	226.12	226.23	226.34	226.44	226.53
66.5	215.77	216.13	216.29	216.44	216.57	216.69	216.81	216.92	217.01	217.10
67.0	206.74	207.12	207.28	207.43	207.57	207.70	207.82	207.93	208.03	208.12
67.5	198.10	198.48	198.65	198.81	198.95	199.08	199.21	199.32	199.42	199.51
68.0	189.81	190.18	190.35	190.52	190.67	190.80	190.93	191.04	191.14	191.22
68.5	181.82	182.17	182.35	182.52	182.67	182.81	182.94	183.05	183.15	183.24
69.0	174.09	174.43	174.61	174.77	174.92	175.05	175.17	175.28	175.37	175.45
69.5	166.60	166.95	167.11	167.25	167.37	167.47	167.56	167.63	167.69	167.74
70.0	159.27	159.63	159.76	159.88	159.97	160.04	160.10	160.14	160.16	160.18
70.5	151.98	152.31	152.45	152.56	152.65	152.72	152.78	152.82	152.85	152.87

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71.0	144.83	145.14	145.26	145.37	145.46	145.54	145.60	145.65	145.68	145.71
71.5	137.93	138.21	138.31	138.39	138.45	138.50	138.53	138.56	138.58	138.58
72.0	131.20	131.45	131.52	131.57	131.61	131.63	131.65	131.65	131.65	131.65
72.5	124.57	124.79	124.86	124.92	124.96	124.99	125.01	125.02	125.03	125.04
73.0	118.11	118.31	118.38	118.44	118.49	118.53	118.57	118.60	118.62	118.65
73.5	111.83	112.01	112.09	112.15	112.21	112.26	112.31	112.35	112.39	112.43
74.0	105.77	105.93	106.00	106.07	106.13	106.18	106.24	106.29	106.34	106.39
74.5	99.94	100.08	100.15	100.21	100.26	100.32	100.37	100.43	100.48	100.54
75.0	94.33	94.45	94.50	94.55	94.60	94.65	94.70	94.75	94.80	94.86
75.5	88.92	89.02	89.06	89.10	89.13	89.17	89.21	89.25	89.29	89.34
76.0	83.69	83.77	83.80	83.83	83.86	83.88	83.91	83.94	83.97	84.01
76.5	78.62	78.68	78.71	78.74	78.77	78.80	78.84	78.87	78.91	78.95
77.0	73.73	73.78	73.81	73.84	73.87	73.91	73.94	73.98	74.02	74.06
77.5	69.07	69.11	69.13	69.15	69.17	69.19	69.21	69.23	69.25	69.28
78.0	64.55	64.58	64.59	64.59	64.60	64.60	64.60	64.61	64.62	64.63
78.5	60.07	60.09	60.09	60.08	60.08	60.08	60.08	60.08	60.08	60.09
79.0	55.71	55.72	55.71	55.71	55.70	55.69	55.69	55.69	55.69	55.69
79.5	51.55	51.55	51.54	51.53	51.52	51.51	51.50	51.49	51.49	51.49
80.0	47.52	47.52	47.50	47.49	47.47	47.45	47.44	47.43	47.42	47.42
80.5	43.56	43.56	43.54	43.53	43.51	43.50	43.49	43.48	43.47	43.47
81.0	39.67	39.66	39.65	39.64	39.62	39.61	39.60	39.60	39.59	39.59
81.5	35.82	35.81	35.79	35.78	35.77	35.75	35.74	35.73	35.73	35.72
82.0	32.00	31.98	31.96	31.95	31.93	31.92	31.91	31.90	31.89	31.88
82.5	28.15	28.12	28.10	28.09	28.08	28.07	28.06	28.06	28.05	28.05
83.0	24.35	24.31	24.29	24.28	24.28	24.27	24.27	24.27	24.27	24.28
83.5	20.68	20.64	20.62	20.61	20.60	20.59	20.58	20.58	20.57	20.57
84.0	17.14	17.10	17.08	17.06	17.04	17.02	17.01	16.99	16.98	16.97
84.5	13.72	13.68	13.65	13.62	13.59	13.57	13.54	13.52	13.49	13.47
85.0	10.50	10.46	10.42	10.38	10.35	10.31	10.28	10.24	10.21	10.18
85.5	7.45	7.41	7.37	7.33	7.28	7.24	7.20	7.16	7.12	7.08
86.0	4.88	4.83	4.79	4.75	4.71	4.67	4.62	4.58	4.54	4.49
86.5	3.12	3.08	3.05	3.02	2.99	2.96	2.93	2.90	2.87	2.83
87.0	2.00	1.97	1.95	1.93	1.91	1.90	1.88	1.86	1.85	1.83
87.5	1.56	1.55	1.53	1.52	1.51	1.50	1.48	1.47	1.46	1.45
88.0	1.47	1.46	1.46	1.45	1.44	1.43	1.43	1.42	1.41	1.40
88.5	1.38	1.38	1.38	1.38	1.37	1.37	1.36	1.36	1.35	1.35
89.0	1.36	1.37	1.36	1.36	1.36	1.36	1.36	1.36	1.35	1.35
89.5	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
90.0	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36

Vert. Horizontal Angles
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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19827.63	19827.64	19827.66	19827.68	19827.72	19827.76	19827.80	19827.85	19827.90	19827.95
1.0	19829.54	19829.50	19829.47	19829.45	19829.44	19829.45	19829.46	19829.48	19829.51	19829.55
1.5	19833.20	19833.02	19832.84	19832.66	19832.49	19832.33	19832.19	19832.07	19831.98	19831.92
2.0	19836.83	19836.53	19836.21	19835.88	19835.56	19835.26	19834.97	19834.72	19834.51	19834.35
2.5	19838.91	19838.63	19838.33	19838.02	19837.72	19837.43	19837.16	19836.92	19836.73	19836.59
3.0	19839.26	19839.05	19838.82	19838.58	19838.35	19838.13	19837.93	19837.77	19837.65	19837.59
3.5	19837.44	19837.27	19837.08	19836.89	19836.70	19836.53	19836.39	19836.30	19836.27	19836.30
4.0	19832.74	19832.64	19832.52	19832.40	19832.30	19832.22	19832.19	19832.23	19832.34	19832.54
4.5	19823.96	19823.98	19824.00	19824.05	19824.13	19824.25	19824.45	19824.73	19825.12	19825.61
5.0	19812.18	19812.35	19812.54	19812.77	19813.06	19813.43	19813.88	19814.44	19815.12	19815.94
5.5	19798.13	19798.43	19798.76	19799.15	19799.62	19800.17	19800.83	19801.62	19802.54	19803.62
6.0	19781.75	19782.19	19782.68	19783.24	19783.88	19784.63	19785.50	19786.50	19787.65	19788.97

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CANDELA TABULATION - (Cont.)

6.5	19763.33	19763.95	19764.64	19765.41	19766.27	19767.25	19768.36	19769.62	19771.04	19772.63
7.0	19742.65	19743.43	19744.29	19745.25	19746.32	19747.52	19748.86	19750.35	19752.01	19753.85
7.5	19719.73	19720.61	19721.58	19722.66	19723.88	19725.22	19726.72	19728.38	19730.22	19732.26
8.0	19694.07	19695.01	19696.04	19697.19	19698.48	19699.92	19701.51	19703.28	19705.24	19707.40
8.5	19665.77	19666.69	19667.71	19668.86	19670.13	19671.55	19673.13	19674.90	19676.86	19679.02
9.0	19633.13	19634.04	19635.04	19636.16	19637.40	19638.79	19640.33	19642.06	19643.99	19646.13
9.5	19594.63	19595.59	19596.63	19597.78	19599.04	19600.45	19602.01	19603.74	19605.67	19607.81
10.0	19549.85	19550.89	19552.00	19553.21	19554.54	19556.00	19557.61	19559.40	19561.36	19563.54
10.5	19497.89	19499.02	19500.25	19501.59	19503.05	19504.65	19506.40	19508.32	19510.41	19512.70
11.0	19438.64	19439.86	19441.20	19442.66	19444.26	19446.00	19447.90	19449.96	19452.19	19454.60
11.5	19372.02	19373.29	19374.69	19376.23	19377.91	19379.73	19381.72	19383.87	19386.19	19388.70
12.0	19297.07	19298.35	19299.76	19301.30	19303.00	19304.85	19306.86	19309.04	19311.40	19313.94
12.5	19213.21	19214.42	19215.74	19217.20	19218.79	19220.54	19222.45	19224.55	19226.83	19229.32
13.0	19119.18	19120.29	19121.49	19122.81	19124.26	19125.88	19127.66	19129.63	19131.82	19134.23
13.5	19013.87	19014.86	19015.94	19017.13	19018.46	19019.94	19021.61	19023.48	19025.58	19027.93
14.0	18896.21	18897.13	18898.13	18899.25	18900.50	18901.93	18903.54	18905.37	18907.43	18909.76
14.5	18764.83	18765.80	18766.86	18768.04	18769.37	18770.87	18772.55	18774.46	18776.62	18779.04
15.0	18619.54	18620.63	18621.83	18623.16	18624.64	18626.30	18628.15	18630.23	18632.54	18635.12
15.5	18459.89	18461.13	18462.50	18464.02	18465.71	18467.59	18469.67	18471.97	18474.51	18477.30
16.0	18285.23	18286.70	18288.33	18290.13	18292.11	18294.29	18296.67	18299.26	18302.08	18305.12
16.5	18094.50	18096.35	18098.38	18100.58	18102.97	18105.54	18108.29	18111.23	18114.35	18117.66
17.0	17888.48	17890.83	17893.36	17896.07	17898.95	17902.00	17905.19	17908.53	17912.00	17915.60
17.5	17668.05	17671.01	17674.16	17677.47	17680.93	17684.53	17688.23	17692.04	17695.91	17699.83
18.0	17431.90	17435.54	17439.36	17443.34	17447.46	17451.67	17455.94	17460.26	17464.58	17468.87
18.5	17178.61	17182.96	17187.53	17192.27	17197.13	17202.06	17207.03	17211.97	17216.85	17221.60
19.0	16909.39	16914.41	16919.66	16925.09	16930.62	16936.21	16941.77	16947.26	16952.61	16957.75
19.5	16625.14	16630.66	16636.35	16642.16	16648.04	16653.90	16659.69	16665.35	16670.81	16676.01
20.0	16325.33	16331.30	16337.40	16343.56	16349.72	16355.82	16361.79	16367.58	16373.10	16378.31
20.5	16009.78	16016.32	16022.97	16029.67	16036.34	16042.91	16049.31	16055.47	16061.30	16066.75
21.0	15678.25	15685.35	15692.58	15699.85	15707.08	15714.18	15721.07	15727.66	15733.86	15739.59
21.5	15329.67	15337.30	15345.08	15352.92	15360.70	15368.34	15375.72	15382.76	15389.35	15395.39
22.0	14966.30	14974.38	14982.63	14990.93	14999.16	15007.22	15014.99	15022.36	15029.21	15035.44
22.5	14590.36	14598.78	14607.31	14615.84	14624.25	14632.43	14640.25	14647.60	14654.36	14660.42
23.0	14200.80	14209.44	14218.13	14226.77	14235.23	14243.39	14251.14	14258.35	14264.90	14270.67
23.5	13796.66	13805.37	13814.14	13822.85	13831.37	13839.57	13847.31	13854.47	13860.92	13866.52
24.0	13379.95	13388.57	13397.28	13405.92	13414.37	13422.48	13430.10	13437.11	13443.36	13448.71
24.5	12952.44	12960.77	12969.16	12977.48	12985.59	12993.32	13000.55	13007.14	13012.92	13017.77
25.0	12513.96	12521.87	12529.81	12537.66	12545.27	12552.50	12559.20	12565.22	12570.42	12574.67
25.5	12063.87	12071.27	12078.72	12086.07	12093.18	12099.89	12106.06	12111.54	12116.19	12119.85
26.0	11605.47	11612.25	11619.05	11625.75	11632.18	11638.21	11643.69	11648.48	11652.43	11655.39
26.5	11141.65	11147.53	11153.35	11158.97	11164.28	11169.15	11173.48	11177.13	11179.98	11181.92
27.0	10673.02	10678.08	10682.97	10687.59	10691.86	10695.66	10698.90	10701.49	10703.31	10704.27
27.5	10200.16	10204.90	10209.49	10213.83	10217.79	10221.29	10224.19	10226.40	10227.80	10228.28
28.0	9726.07	9730.51	9734.84	9738.93	9742.66	9745.92	9748.56	9750.48	9751.54	9751.63
28.5	9252.74	9256.38	9259.89	9263.16	9266.08	9268.52	9270.37	9271.53	9271.86	9271.25
29.0	8783.84	8786.65	8789.31	8791.73	8793.80	8795.42	8796.47	8796.86	8796.47	8795.21
29.5	8323.60	8325.95	8328.17	8330.14	8331.77	8332.96	8333.61	8333.62	8332.87	8331.28
30.0	7872.24	7874.25	7876.12	7877.78	7879.10	7880.00	7880.37	7880.12	7879.13	7877.31
30.5	7430.39	7432.08	7433.65	7435.01	7436.06	7436.69	7436.80	7436.30	7435.08	7433.05
31.0	7000.93	7002.25	7003.45	7004.45	7005.14	7005.43	7005.22	7004.42	7002.92	7000.65
31.5	6587.04	6587.74	6588.29	6588.61	6588.62	6588.24	6587.40	6586.01	6584.02	6581.33
32.0	6188.44	6188.54	6188.46	6188.12	6187.48	6186.48	6185.05	6183.16	6180.72	6177.70
32.5	5805.41	5805.16	5804.77	5804.16	5803.30	5802.13	5800.60	5798.64	5796.21	5793.25
33.0	5439.51	5438.98	5438.35	5437.57	5436.57	5435.31	5433.74	5431.79	5429.42	5426.57
33.5	5092.29	5091.42	5090.42	5089.26	5087.89	5086.26	5084.35	5082.10	5079.48	5076.44
34.0	4764.01	4762.88	4761.61	4760.15	4758.49	4756.58	4754.39	4751.90	4749.07	4745.87

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CANDELA TABULATION - (Cont.)

34.5	4454.68	4453.59	4452.41	4451.08	4449.57	4447.84	4445.85	4443.57	4440.96	4437.97
35.0	4166.53	4165.49	4164.40	4163.21	4161.87	4160.33	4158.55	4156.49	4154.09	4151.32
35.5	3905.58	3904.31	3902.97	3901.51	3899.91	3898.12	3896.10	3893.82	3891.25	3888.34
36.0	3660.43	3658.89	3657.25	3655.47	3653.54	3651.43	3649.11	3646.56	3643.75	3640.66
36.5	3417.29	3415.65	3413.88	3411.98	3409.92	3407.69	3405.27	3402.64	3399.78	3396.68
37.0	3189.29	3187.59	3185.77	3183.81	3181.70	3179.43	3176.99	3174.36	3171.53	3168.49
37.5	2987.83	2986.07	2984.21	2982.23	2980.11	2977.86	2975.46	2972.90	2970.17	2967.27
38.0	2804.33	2802.54	2800.65	2798.66	2796.56	2794.34	2792.00	2789.52	2786.91	2784.15
38.5	2634.00	2632.18	2630.24	2628.19	2626.04	2623.78	2621.40	2618.92	2616.33	2613.63
39.0	2476.95	2475.14	2473.21	2471.17	2469.01	2466.75	2464.40	2461.94	2459.41	2456.79
39.5	2332.12	2330.45	2328.67	2326.78	2324.80	2322.71	2320.53	2318.27	2315.92	2313.50
40.0	2198.19	2196.74	2195.20	2193.56	2191.83	2190.01	2188.10	2186.11	2184.03	2181.88
40.5	2073.30	2072.18	2070.98	2069.71	2068.35	2066.91	2065.38	2063.76	2062.05	2060.23
41.0	1957.97	1957.15	1956.26	1955.32	1954.29	1953.19	1951.99	1950.70	1949.30	1947.80
41.5	1852.55	1851.84	1851.05	1850.19	1849.25	1848.24	1847.13	1845.94	1844.65	1843.26
42.0	1755.73	1755.05	1754.27	1753.41	1752.46	1751.44	1750.33	1749.15	1747.89	1746.56
42.5	1667.34	1666.59	1665.72	1664.73	1663.64	1662.48	1661.24	1659.97	1658.65	1657.33
43.0	1584.28	1583.62	1582.82	1581.92	1580.92	1579.84	1578.71	1577.55	1576.37	1575.20
43.5	1501.94	1501.97	1502.00	1501.99	1501.96	1501.87	1501.71	1501.48	1501.16	1500.73
44.0	1424.67	1425.35	1426.14	1426.99	1427.86	1428.70	1429.46	1430.11	1430.59	1430.85
44.5	1356.39	1357.00	1357.68	1358.39	1359.11	1359.80	1360.42	1360.94	1361.34	1361.58
45.0	1293.67	1294.07	1294.47	1294.86	1295.23	1295.55	1295.83	1296.05	1296.20	1296.26
45.5	1234.26	1234.74	1235.22	1235.69	1236.14	1236.55	1236.93	1237.25	1237.51	1237.69
46.0	1178.58	1179.19	1179.82	1180.46	1181.08	1181.68	1182.25	1182.76	1183.21	1183.58
46.5	1126.39	1127.09	1127.82	1128.57	1129.33	1130.07	1130.79	1131.46	1132.07	1132.60
47.0	1077.40	1078.17	1078.99	1079.85	1080.72	1081.59	1082.43	1083.25	1084.00	1084.69
47.5	1031.28	1032.11	1033.00	1033.93	1034.89	1035.84	1036.78	1037.69	1038.55	1039.34
48.0	987.89	988.77	989.71	990.70	991.72	992.74	993.76	994.75	995.69	996.56
48.5	947.06	947.98	948.97	950.02	951.09	952.18	953.26	954.31	955.32	956.27
49.0	908.48	909.45	910.48	911.56	912.68	913.82	914.96	916.07	917.15	918.16
49.5	871.84	872.82	873.89	875.01	876.16	877.34	878.53	879.69	880.82	881.90
50.0	837.04	838.04	839.13	840.27	841.46	842.68	843.90	845.11	846.29	847.42
50.5	803.93	804.94	806.03	807.20	808.41	809.66	810.93	812.19	813.42	814.62
51.0	772.48	773.48	774.57	775.74	776.97	778.24	779.52	780.82	782.09	783.33
51.5	742.68	743.66	744.73	745.88	747.08	748.33	749.61	750.89	752.16	753.40
52.0	714.29	715.24	716.28	717.39	718.57	719.79	721.03	722.29	723.54	724.76
52.5	687.04	687.97	688.99	690.08	691.23	692.43	693.65	694.88	696.11	697.32
53.0	660.92	661.83	662.83	663.90	665.03	666.20	667.40	668.61	669.83	671.02
53.5	635.84	636.73	637.70	638.75	639.87	641.03	642.22	643.43	644.64	645.84
54.0	611.76	612.62	613.56	614.59	615.68	616.82	617.99	619.18	620.39	621.58
54.5	588.66	589.48	590.38	591.36	592.39	593.47	594.59	595.73	596.88	598.02
55.0	566.39	567.16	568.02	568.94	569.91	570.93	571.98	573.05	574.14	575.22
55.5	544.74	545.48	546.29	547.16	548.09	549.07	550.07	551.10	552.15	553.20
56.0	523.83	524.53	525.29	526.12	527.00	527.92	528.88	529.86	530.86	531.87
56.5	503.80	504.44	505.14	505.89	506.69	507.53	508.41	509.32	510.25	511.19
57.0	484.41	484.99	485.62	486.30	487.02	487.79	488.58	489.41	490.27	491.14
57.5	465.43	465.96	466.54	467.17	467.84	468.55	469.30	470.08	470.89	471.73
58.0	447.02	447.50	448.03	448.60	449.22	449.88	450.57	451.30	452.07	452.87
58.5	429.29	429.70	430.15	430.64	431.17	431.74	432.35	433.00	433.69	434.43
59.0	412.16	412.49	412.86	413.26	413.70	414.18	414.70	415.26	415.88	416.55
59.5	395.58	395.86	396.15	396.48	396.84	397.24	397.68	398.18	398.73	399.34
60.0	379.54	379.76	380.00	380.27	380.57	380.91	381.29	381.73	382.23	382.80
60.5	363.93	364.13	364.36	364.61	364.90	365.23	365.60	366.03	366.51	367.07
61.0	348.89	349.07	349.27	349.50	349.77	350.07	350.43	350.84	351.31	351.84
61.5	334.63	334.72	334.83	334.95	335.11	335.31	335.56	335.87	336.25	336.71
62.0	320.82	320.83	320.85	320.88	320.94	321.04	321.19	321.41	321.72	322.12

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CANDELA TABULATION - (Cont.)

62.5	307.06	307.08	307.10	307.14	307.21	307.32	307.49	307.73	308.05	308.46
63.0	293.77	293.80	293.85	293.92	294.02	294.17	294.38	294.65	295.00	295.43
63.5	281.33	281.34	281.36	281.42	281.50	281.64	281.83	282.08	282.42	282.84
64.0	269.46	269.44	269.44	269.46	269.51	269.62	269.78	270.01	270.32	270.72
64.5	258.00	257.95	257.92	257.91	257.93	258.00	258.13	258.32	258.60	258.97
65.0	247.02	246.96	246.90	246.86	246.85	246.89	246.99	247.16	247.40	247.74
65.5	236.57	236.49	236.43	236.38	236.37	236.39	236.48	236.63	236.85	237.18
66.0	226.61	226.54	226.48	226.43	226.41	226.44	226.51	226.65	226.87	227.17
66.5	217.19	217.13	217.08	217.04	217.02	217.05	217.12	217.25	217.46	217.74
67.0	208.20	208.15	208.10	208.07	208.06	208.08	208.15	208.27	208.45	208.71
67.5	199.59	199.52	199.45	199.40	199.37	199.37	199.41	199.51	199.67	199.91
68.0	191.30	191.21	191.13	191.05	191.00	190.97	190.99	191.07	191.20	191.42
68.5	183.31	183.22	183.13	183.05	182.98	182.94	182.94	182.99	183.10	183.28
69.0	175.52	175.43	175.34	175.25	175.18	175.13	175.12	175.15	175.24	175.39
69.5	167.77	167.68	167.59	167.50	167.43	167.39	167.38	167.42	167.51	167.66
70.0	160.19	160.10	160.01	159.93	159.87	159.83	159.83	159.87	159.97	160.12
70.5	152.88	152.79	152.71	152.63	152.57	152.54	152.53	152.57	152.66	152.80
71.0	145.72	145.65	145.58	145.51	145.46	145.43	145.43	145.46	145.55	145.68
71.5	138.59	138.54	138.49	138.45	138.43	138.43	138.46	138.52	138.63	138.78
72.0	131.65	131.62	131.60	131.59	131.60	131.63	131.69	131.78	131.90	132.07
72.5	125.04	125.03	125.03	125.03	125.06	125.10	125.16	125.26	125.38	125.55
73.0	118.68	118.68	118.69	118.71	118.74	118.79	118.86	118.95	119.08	119.23
73.5	112.47	112.50	112.53	112.58	112.63	112.70	112.78	112.89	113.02	113.17
74.0	106.45	106.50	106.55	106.62	106.69	106.78	106.88	107.00	107.13	107.29
74.5	100.60	100.66	100.73	100.80	100.89	100.98	101.10	101.22	101.37	101.53
75.0	94.92	94.99	95.06	95.14	95.23	95.33	95.45	95.58	95.72	95.89
75.5	89.39	89.45	89.53	89.61	89.70	89.80	89.92	90.04	90.18	90.34
76.0	84.06	84.12	84.18	84.26	84.35	84.44	84.55	84.67	84.80	84.94
76.5	78.99	79.05	79.11	79.18	79.26	79.34	79.44	79.54	79.65	79.77
77.0	74.11	74.16	74.21	74.27	74.34	74.41	74.48	74.57	74.65	74.75
77.5	69.31	69.35	69.40	69.45	69.51	69.56	69.63	69.69	69.77	69.84
78.0	64.64	64.68	64.72	64.76	64.80	64.85	64.90	64.96	65.02	65.08
78.5	60.10	60.13	60.16	60.20	60.24	60.28	60.32	60.37	60.41	60.46
79.0	55.70	55.73	55.76	55.79	55.83	55.87	55.91	55.94	55.98	56.01
79.5	51.49	51.52	51.55	51.59	51.63	51.67	51.71	51.75	51.79	51.82
80.0	47.42	47.45	47.49	47.53	47.57	47.61	47.65	47.69	47.73	47.76
80.5	43.47	43.49	43.53	43.56	43.60	43.63	43.67	43.70	43.73	43.75
81.0	39.59	39.61	39.64	39.66	39.69	39.72	39.74	39.77	39.79	39.80
81.5	35.72	35.74	35.76	35.79	35.81	35.83	35.86	35.88	35.89	35.90
82.0	31.88	31.90	31.92	31.94	31.96	31.98	32.00	32.02	32.03	32.04
82.5	28.06	28.08	28.10	28.12	28.13	28.15	28.17	28.18	28.19	28.19
83.0	24.28	24.30	24.31	24.33	24.34	24.36	24.37	24.37	24.38	24.37
83.5	20.57	20.57	20.58	20.59	20.59	20.59	20.59	20.59	20.58	20.57
84.0	16.96	16.95	16.94	16.94	16.93	16.92	16.91	16.90	16.88	16.87
84.5	13.45	13.44	13.42	13.41	13.40	13.39	13.38	13.36	13.35	13.34
85.0	10.14	10.12	10.10	10.08	10.06	10.04	10.03	10.01	10.00	9.98
85.5	7.03	6.98	6.92	6.87	6.82	6.77	6.73	6.69	6.66	6.64
86.0	4.44	4.37	4.29	4.22	4.14	4.08	4.01	3.96	3.92	3.89
86.5	2.80	2.75	2.70	2.65	2.61	2.56	2.52	2.49	2.47	2.45
87.0	1.82	1.80	1.79	1.77	1.76	1.75	1.74	1.73	1.73	1.73
87.5	1.45	1.44	1.43	1.43	1.42	1.42	1.42	1.42	1.42	1.42
88.0	1.40	1.39	1.39	1.39	1.38	1.38	1.38	1.38	1.38	1.38
88.5	1.35	1.35	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
89.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
89.5	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
90.0	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36

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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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19827.98	19828.01	19828.04	19828.08	19828.11	19828.15	19828.18	19828.22	19828.27	19828.14
1.0	19829.62	19829.69	19829.77	19829.86	19829.95	19830.05	19830.15	19830.26	19830.37	19830.19
1.5	19832.01	19832.13	19832.28	19832.45	19832.64	19832.84	19833.06	19833.28	19833.51	19833.36
2.0	19834.49	19834.67	19834.90	19835.16	19835.45	19835.76	19836.09	19836.42	19836.75	19836.65
2.5	19836.79	19837.04	19837.33	19837.64	19837.98	19838.32	19838.66	19838.98	19839.27	19839.18
3.0	19837.91	19838.28	19838.68	19839.10	19839.53	19839.95	19840.34	19840.70	19841.00	19840.88
3.5	19836.83	19837.43	19838.07	19838.73	19839.41	19840.08	19840.72	19841.31	19841.85	19841.67
4.0	19833.36	19834.26	19835.22	19836.22	19837.24	19838.25	19839.24	19840.18	19841.05	19840.81
4.5	19826.82	19828.13	19829.52	19830.95	19832.41	19833.86	19835.28	19836.64	19837.91	19837.63
5.0	19817.55	19819.29	19821.11	19822.99	19824.90	19826.80	19828.66	19830.45	19832.14	19831.86
5.5	19805.55	19807.61	19809.78	19812.01	19814.27	19816.53	19818.75	19820.90	19822.94	19822.79
6.0	19791.20	19793.57	19796.05	19798.60	19801.18	19803.75	19806.29	19808.73	19811.07	19811.13
6.5	19775.17	19777.87	19780.66	19783.52	19786.41	19789.27	19792.08	19794.78	19797.34	19797.66
7.0	19756.69	19759.67	19762.76	19765.90	19769.06	19772.18	19775.22	19778.13	19780.88	19781.49
7.5	19735.33	19738.55	19741.88	19745.25	19748.64	19751.99	19755.25	19758.36	19761.30	19762.26
8.0	19710.64	19714.05	19717.56	19721.13	19724.69	19728.21	19731.63	19734.89	19737.96	19739.24
8.5	19682.38	19685.89	19689.52	19693.19	19696.85	19700.45	19703.93	19707.23	19710.30	19711.78
9.0	19649.56	19653.15	19656.84	19660.57	19664.29	19667.91	19671.40	19674.67	19677.68	19679.30
9.5	19611.30	19614.96	19618.71	19622.47	19626.21	19629.83	19633.28	19636.50	19639.41	19641.13
10.0	19567.10	19570.82	19574.61	19578.40	19582.13	19585.73	19589.13	19592.25	19595.03	19596.84
10.5	19516.38	19520.18	19524.03	19527.85	19531.57	19535.12	19538.42	19541.39	19543.97	19545.91
11.0	19458.40	19462.30	19466.22	19470.09	19473.82	19477.34	19480.56	19483.41	19485.81	19487.90
11.5	19392.60	19396.59	19400.61	19404.55	19408.34	19411.89	19415.13	19417.96	19420.30	19422.53
12.0	19317.96	19322.07	19326.20	19330.25	19334.14	19337.77	19341.07	19343.94	19346.30	19348.70
12.5	19233.48	19237.77	19242.06	19246.28	19250.33	19254.11	19257.52	19260.48	19262.89	19265.50
13.0	19138.54	19143.00	19147.48	19151.88	19156.11	19160.04	19163.59	19166.64	19169.10	19172.00
13.5	19032.37	19036.96	19041.58	19046.14	19050.50	19054.56	19058.21	19061.33	19063.82	19067.15
14.0	18914.35	18919.10	18923.89	18928.59	18933.09	18937.25	18940.96	18944.10	18946.55	18950.34
14.5	18783.89	18788.89	18793.90	18798.79	18803.42	18807.65	18811.35	18814.39	18816.63	18820.83
15.0	18640.25	18645.51	18650.75	18655.82	18660.57	18664.84	18668.51	18671.41	18673.40	18677.99
15.5	18482.66	18488.13	18493.55	18498.77	18503.62	18507.96	18511.63	18514.48	18516.36	18521.28
16.0	18310.68	18316.32	18321.87	18327.17	18332.06	18336.39	18339.98	18342.70	18344.38	18349.68
16.5	18123.37	18129.10	18134.67	18139.93	18144.70	18148.82	18152.13	18154.46	18155.66	18161.52
17.0	17921.47	17927.28	17932.86	17938.02	17942.60	17946.43	17949.34	17951.16	17951.73	17958.19
17.5	17705.96	17711.93	17717.56	17722.67	17727.08	17730.61	17733.08	17734.31	17734.13	17741.05
18.0	17475.23	17481.34	17487.00	17492.02	17496.22	17499.41	17501.39	17502.00	17501.03	17508.38
18.5	17228.08	17234.20	17239.76	17244.58	17248.48	17251.26	17252.74	17252.74	17251.08	17258.83
19.0	16964.29	16970.37	16975.80	16980.40	16983.98	16986.36	16987.35	16986.78	16984.47	16992.57
19.5	16682.58	16688.63	16693.96	16698.40	16701.74	16703.80	16704.40	16703.36	16700.48	16708.89
20.0	16384.92	16390.95	16396.19	16400.46	16403.56	16405.31	16405.50	16403.96	16400.49	16409.16
20.5	16073.46	16079.50	16084.66	16088.75	16091.56	16092.90	16092.57	16090.38	16086.13	16094.99
21.0	15746.38	15752.41	15757.46	15761.32	15763.80	15764.70	15763.81	15760.94	15755.89	15764.85
21.5	15402.18	15408.10	15412.96	15416.56	15418.69	15419.16	15417.77	15414.32	15408.63	15417.58
22.0	15042.13	15047.86	15052.45	15055.69	15057.38	15057.34	15055.36	15051.25	15044.83	15053.75
22.5	14666.86	14672.27	14676.44	14679.16	14680.24	14679.46	14676.63	14671.56	14664.05	14673.00
23.0	14276.81	14281.83	14285.52	14287.65	14288.04	14286.45	14282.70	14276.57	14267.86	14276.97
23.5	13872.37	13877.03	13880.25	13881.83	13881.55	13879.20	13874.56	13867.42	13857.58	13867.12
24.0	13454.20	13458.42	13461.14	13462.13	13461.18	13458.05	13452.54	13444.44	13433.51	13443.59
24.5	13022.74	13026.38	13028.48	13028.80	13027.13	13023.23	13016.88	13007.88	12996.00	13006.54
25.0	12579.01	12582.01	12583.44	12583.06	12580.65	12575.99	12568.85	12559.03	12546.29	12557.26
25.5	12123.48	12125.74	12126.42	12125.27	12122.09	12116.66	12108.75	12098.15	12084.65	12096.02
26.0	11658.35	11659.96	11659.97	11658.17	11654.35	11648.27	11639.73	11628.51	11614.40	11625.98

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CANDELA TABULATION - (Cont.)

26.5	11184.50	11185.79	11185.56	11183.55	11179.54	11173.29	11164.56	11153.13	11138.77	11149.95
27.0	10706.44	10707.38	10706.84	10704.56	10700.30	10693.79	10684.80	10673.09	10658.40	10669.21
27.5	10229.64	10229.72	10228.27	10225.04	10219.79	10212.28	10202.27	10189.53	10173.82	10184.97
28.0	9752.14	9751.32	9748.92	9744.71	9738.46	9729.96	9718.97	9705.27	9688.64	9700.23
28.5	9271.13	9269.72	9266.81	9262.15	9255.54	9246.75	9235.56	9221.76	9205.14	9216.86
29.0	8794.61	8792.80	8789.55	8784.66	8777.89	8769.04	8757.89	8744.23	8727.85	8739.43
29.5	8330.44	8328.41	8324.98	8319.93	8313.03	8304.06	8292.81	8279.07	8262.63	8273.56
30.0	7876.26	7874.06	7870.47	7865.28	7858.27	7849.22	7837.93	7824.17	7807.75	7818.03
30.5	7431.54	7428.91	7424.95	7419.45	7412.23	7403.07	7391.79	7378.19	7362.08	7372.43
31.0	6998.75	6995.77	6991.54	6985.87	6978.58	6969.48	6958.40	6945.17	6929.61	6939.99
31.5	6579.38	6576.47	6572.42	6567.04	6560.15	6551.57	6541.12	6528.62	6513.91	6523.55
32.0	6175.84	6173.13	6169.40	6164.45	6158.10	6150.15	6140.44	6128.79	6115.01	6123.84
32.5	5791.49	5788.96	5785.48	5780.86	5774.92	5767.49	5758.37	5747.41	5734.42	5742.96
33.0	5424.91	5422.53	5419.26	5414.93	5409.35	5402.36	5393.79	5383.46	5371.21	5379.57
33.5	5074.76	5072.45	5069.32	5065.22	5059.96	5053.38	5045.32	5035.59	5024.06	5032.05
34.0	4744.11	4741.78	4738.71	4734.74	4729.70	4723.43	4715.78	4706.58	4695.68	4703.25
34.5	4436.02	4433.52	4430.31	4426.26	4421.21	4415.02	4407.57	4398.70	4388.29	4395.33
35.0	4149.19	4146.52	4143.18	4139.03	4133.96	4127.85	4120.59	4112.04	4102.10	4108.83
35.5	3886.14	3883.45	3880.16	3876.13	3871.27	3865.46	3858.58	3850.52	3841.18	3848.51
36.0	3638.45	3635.83	3632.66	3628.85	3624.27	3618.83	3612.40	3604.90	3596.20	3603.84
36.5	3394.54	3392.04	3389.05	3385.48	3381.22	3376.16	3370.20	3363.25	3355.20	3361.29
37.0	3166.45	3164.09	3161.31	3158.00	3154.06	3149.40	3143.92	3137.53	3130.13	3134.49
37.5	2965.31	2963.08	2960.47	2957.39	2953.76	2949.47	2944.45	2938.61	2931.85	2935.78
38.0	2782.28	2780.18	2777.75	2774.91	2771.58	2767.67	2763.11	2757.81	2751.70	2755.55
38.5	2611.88	2609.94	2607.72	2605.16	2602.18	2598.69	2594.63	2589.91	2584.47	2588.07
39.0	2455.16	2453.37	2451.37	2449.07	2446.40	2443.28	2439.66	2435.47	2430.62	2433.98
39.5	2311.98	2310.31	2308.45	2306.31	2303.84	2300.97	2297.63	2293.77	2289.33	2292.38
40.0	2180.47	2178.92	2177.17	2175.17	2172.85	2170.15	2167.03	2163.42	2159.26	2162.04
40.5	2058.98	2057.57	2055.94	2054.06	2051.87	2049.31	2046.34	2042.91	2038.96	2041.57
41.0	1946.70	1945.44	1943.96	1942.23	1940.18	1937.79	1935.00	1931.78	1928.07	1930.56
41.5	1842.29	1841.18	1839.88	1838.35	1836.55	1834.43	1831.96	1829.10	1825.81	1828.29
42.0	1745.75	1744.82	1743.75	1742.49	1741.00	1739.24	1737.18	1734.77	1731.99	1734.36
42.5	1656.78	1656.19	1655.51	1654.71	1653.74	1652.57	1651.15	1649.44	1647.41	1649.10
43.0	1574.88	1574.54	1574.15	1573.66	1573.03	1572.22	1571.20	1569.92	1568.34	1569.59
43.5	1500.39	1499.90	1499.24	1498.36	1497.25	1495.88	1494.22	1492.24	1489.92	1492.03
44.0	1430.50	1429.86	1428.94	1427.70	1426.13	1424.23	1421.96	1419.33	1416.30	1419.32
44.5	1361.44	1361.09	1360.51	1359.68	1358.57	1357.18	1355.48	1353.46	1351.10	1353.80
45.0	1296.38	1296.39	1296.25	1295.95	1295.45	1294.75	1293.81	1292.62	1291.15	1293.31
45.5	1237.96	1238.11	1238.14	1238.01	1237.71	1237.21	1236.50	1235.54	1234.33	1236.40
46.0	1183.96	1184.22	1184.35	1184.32	1184.11	1183.70	1183.08	1182.22	1181.11	1183.19
46.5	1133.11	1133.50	1133.76	1133.87	1133.80	1133.55	1133.09	1132.40	1131.47	1133.51
47.0	1085.31	1085.82	1086.20	1086.44	1086.51	1086.40	1086.09	1085.57	1084.81	1086.82
47.5	1040.05	1040.65	1041.13	1041.47	1041.64	1041.65	1041.46	1041.06	1040.45	1042.51
48.0	997.34	998.02	998.58	999.00	999.27	999.37	999.29	999.01	998.51	1000.63
48.5	957.12	957.88	958.51	959.02	959.37	959.57	959.58	959.40	959.01	961.09
49.0	919.08	919.90	920.61	921.20	921.64	921.91	922.02	921.93	921.64	923.66
49.5	882.89	883.78	884.57	885.23	885.74	886.10	886.29	886.28	886.08	888.09
50.0	848.48	849.44	850.30	851.04	851.64	852.08	852.35	852.43	852.31	854.32
50.5	815.73	816.77	817.71	818.53	819.22	819.76	820.14	820.34	820.33	822.30
51.0	784.50	785.60	786.61	787.51	788.28	788.91	789.39	789.69	789.80	791.73
51.5	754.60	755.73	756.78	757.73	758.56	759.25	759.80	760.17	760.36	762.32
52.0	725.98	727.13	728.21	729.19	730.06	730.80	731.39	731.81	732.06	734.05
52.5	698.55	699.72	700.81	701.81	702.70	703.47	704.08	704.53	704.80	706.79
53.0	672.25	673.43	674.54	675.56	676.46	677.24	677.88	678.35	678.64	680.60
53.5	647.08	648.27	649.39	650.43	651.36	652.18	652.85	653.37	653.71	655.63
54.0	622.82	624.01	625.14	626.19	627.15	627.99	628.69	629.25	629.64	631.51

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54.5	599.23	600.40	601.51	602.55	603.50	604.33	605.04	605.60	606.00	607.87
55.0	576.40	577.55	578.64	579.67	580.60	581.43	582.14	582.70	583.09	584.96
55.5	554.38	555.53	556.64	557.68	558.63	559.47	560.19	560.77	561.18	563.01
56.0	533.06	534.22	535.34	536.39	537.36	538.23	538.97	539.56	540.00	541.77
56.5	512.35	513.50	514.61	515.66	516.63	517.50	518.25	518.86	519.31	521.03
57.0	492.28	493.41	494.51	495.56	496.53	497.41	498.17	498.79	499.25	500.91
57.5	472.87	474.01	475.11	476.17	477.16	478.05	478.82	479.45	479.91	481.53
58.0	454.02	455.17	456.30	457.38	458.39	459.30	460.09	460.73	461.20	462.75
58.5	435.59	436.76	437.92	439.04	440.09	441.04	441.86	442.54	443.04	444.50
59.0	417.73	418.92	420.12	421.27	422.36	423.35	424.21	424.92	425.44	426.82
59.5	400.53	401.75	402.97	404.15	405.27	406.28	407.17	407.89	408.42	409.73
60.0	383.99	385.23	386.47	387.67	388.80	389.83	390.72	391.44	391.96	393.21
60.5	368.26	369.49	370.71	371.90	373.01	374.00	374.85	375.52	375.97	377.18
61.0	353.04	354.28	355.51	356.69	357.79	358.77	359.59	360.22	360.61	361.79
61.5	337.98	339.29	340.61	341.88	343.07	344.14	345.03	345.71	346.14	347.29
62.0	323.45	324.84	326.24	327.61	328.88	330.02	330.98	331.71	332.16	333.29
62.5	309.80	311.20	312.59	313.94	315.19	316.30	317.20	317.87	318.24	319.36
63.0	296.77	298.15	299.52	300.84	302.05	303.10	303.94	304.53	304.81	305.88
63.5	284.20	285.60	287.00	288.33	289.54	290.60	291.44	292.01	292.26	293.15
64.0	272.09	273.51	274.92	276.26	277.50	278.56	279.41	279.98	280.23	280.93
64.5	260.32	261.72	263.12	264.45	265.67	266.73	267.57	268.14	268.39	269.01
65.0	249.06	250.43	251.79	253.09	254.29	255.33	256.15	256.71	256.96	257.56
65.5	238.45	239.78	241.10	242.36	243.53	244.53	245.33	245.87	246.11	246.67
66.0	228.40	229.67	230.94	232.15	233.26	234.22	234.98	235.49	235.71	236.26
66.5	218.89	220.09	221.28	222.41	223.44	224.33	225.01	225.46	225.62	226.20
67.0	209.80	210.93	212.05	213.11	214.07	214.89	215.51	215.90	216.00	216.61
67.5	200.99	202.10	203.20	204.25	205.20	206.00	206.61	206.99	207.08	207.66
68.0	192.48	193.58	194.67	195.71	196.64	197.43	198.03	198.39	198.48	199.02
68.5	184.29	185.33	186.36	187.33	188.21	188.93	189.46	189.76	189.77	190.33
69.0	176.35	177.33	178.30	179.21	180.01	180.66	181.12	181.35	181.30	181.88
69.5	168.59	169.55	170.50	171.38	172.15	172.77	173.21	173.41	173.33	173.90
70.0	161.04	161.98	162.90	163.76	164.51	165.12	165.53	165.71	165.61	166.16
70.5	153.68	154.59	155.48	156.29	157.00	157.56	157.92	158.05	157.91	158.47
71.0	146.53	147.40	148.25	149.02	149.68	150.19	150.51	150.59	150.40	150.96
71.5	139.61	140.45	141.26	142.00	142.63	143.10	143.38	143.44	143.22	143.77
72.0	132.87	133.68	134.45	135.15	135.74	136.18	136.44	136.47	136.24	136.77
72.5	126.29	127.04	127.75	128.39	128.93	129.33	129.55	129.56	129.32	129.84
73.0	119.91	120.59	121.24	121.82	122.30	122.66	122.84	122.84	122.60	123.11
73.5	113.80	114.43	115.02	115.55	115.99	116.29	116.45	116.42	116.18	116.67
74.0	107.88	108.47	109.01	109.50	109.89	110.17	110.29	110.24	109.99	110.48
74.5	102.09	102.65	103.18	103.64	104.01	104.27	104.38	104.33	104.09	104.53
75.0	96.43	96.96	97.46	97.90	98.26	98.50	98.61	98.56	98.32	98.72
75.5	90.84	91.33	91.79	92.19	92.51	92.73	92.83	92.78	92.55	92.91
76.0	85.39	85.83	86.24	86.60	86.89	87.08	87.15	87.09	86.87	87.21
76.5	80.16	80.55	80.91	81.21	81.45	81.60	81.65	81.57	81.34	81.66
77.0	75.09	75.42	75.72	75.98	76.17	76.28	76.29	76.19	75.96	76.25
77.5	70.13	70.41	70.67	70.88	71.03	71.10	71.09	70.97	70.73	70.99
78.0	65.32	65.55	65.76	65.92	66.04	66.08	66.05	65.92	65.68	65.91
78.5	60.65	60.84	61.00	61.12	61.20	61.21	61.15	61.01	60.78	61.01
79.0	56.17	56.32	56.44	56.53	56.57	56.56	56.49	56.34	56.10	56.35
79.5	51.96	52.09	52.19	52.26	52.29	52.26	52.17	52.01	51.77	52.01
80.0	47.89	48.01	48.10	48.16	48.18	48.14	48.04	47.87	47.62	47.87
80.5	43.87	43.98	44.06	44.11	44.12	44.08	43.98	43.81	43.56	43.79
81.0	39.91	40.01	40.09	40.13	40.14	40.09	39.99	39.83	39.59	39.80
81.5	36.01	36.10	36.17	36.20	36.20	36.16	36.06	35.89	35.66	35.85
82.0	32.14	32.22	32.28	32.31	32.30	32.25	32.15	31.99	31.76	31.93

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CANDELA TABULATION - (Cont.)

82.5	28.27	28.34	28.38	28.40	28.38	28.33	28.22	28.05	27.83	27.96
83.0	24.44	24.49	24.52	24.53	24.50	24.44	24.33	24.17	23.95	24.05
83.5	20.62	20.66	20.69	20.69	20.66	20.61	20.51	20.36	20.17	20.23
84.0	16.91	16.94	16.96	16.96	16.94	16.89	16.81	16.69	16.53	16.56
84.5	13.37	13.40	13.41	13.41	13.40	13.36	13.30	13.20	13.08	13.07
85.0	10.01	10.04	10.06	10.07	10.06	10.04	10.01	9.95	9.86	9.84
85.5	6.67	6.72	6.76	6.80	6.84	6.86	6.88	6.89	6.88	6.90
86.0	3.93	3.98	4.04	4.10	4.17	4.24	4.30	4.36	4.41	4.46
86.5	2.48	2.51	2.55	2.60	2.64	2.69	2.74	2.79	2.83	2.87
87.0	1.74	1.75	1.77	1.79	1.80	1.82	1.84	1.86	1.87	1.89
87.5	1.43	1.43	1.44	1.45	1.46	1.46	1.47	1.48	1.48	1.50
88.0	1.38	1.39	1.39	1.39	1.40	1.40	1.40	1.41	1.41	1.42
88.5	1.34	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.36
89.0	1.35	1.35	1.36	1.36	1.36	1.36	1.35	1.35	1.35	1.36
89.5	1.35	1.36	1.36	1.36	1.36	1.36	1.36	1.35	1.35	1.36
90.0	1.37	1.37	1.37	1.37	1.38	1.38	1.38	1.38	1.38	1.38

**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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19828.03	19827.93	19827.84	19827.76	19827.70	19827.65	19827.61	19827.59	19827.64	19827.70
1.0	19830.02	19829.87	19829.73	19829.61	19829.50	19829.41	19829.35	19829.31	19829.38	19829.47
1.5	19833.22	19833.08	19832.95	19832.82	19832.71	19832.62	19832.54	19832.48	19832.54	19832.63
2.0	19836.55	19836.43	19836.31	19836.18	19836.06	19835.95	19835.84	19835.76	19835.79	19835.85
2.5	19839.05	19838.91	19838.75	19838.58	19838.41	19838.24	19838.08	19837.93	19837.95	19837.98
3.0	19840.72	19840.51	19840.29	19840.04	19839.77	19839.51	19839.25	19839.00	19838.96	19838.93
3.5	19841.43	19841.13	19840.79	19840.40	19840.00	19839.57	19839.15	19838.73	19838.52	19838.32
4.0	19840.49	19840.08	19839.60	19839.07	19838.50	19837.90	19837.28	19836.66	19836.27	19835.88
4.5	19837.22	19836.70	19836.09	19835.41	19834.66	19833.88	19833.07	19832.25	19831.69	19831.15
5.0	19831.42	19830.84	19830.14	19829.34	19828.47	19827.54	19826.57	19825.59	19824.92	19824.25
5.5	19822.44	19821.92	19821.25	19820.45	19819.55	19818.58	19817.56	19816.51	19815.84	19815.17
6.0	19810.94	19810.54	19809.96	19809.21	19808.34	19807.37	19806.32	19805.23	19804.58	19803.91
6.5	19797.67	19797.43	19796.95	19796.27	19795.41	19794.42	19793.33	19792.16	19791.42	19790.65
7.0	19781.75	19781.70	19781.36	19780.77	19779.96	19778.98	19777.84	19776.60	19775.76	19774.84
7.5	19762.82	19763.01	19762.88	19762.44	19761.75	19760.83	19759.71	19758.45	19757.47	19756.38
8.0	19740.07	19740.50	19740.55	19740.26	19739.67	19738.81	19737.73	19736.44	19735.36	19734.14
8.5	19712.78	19713.32	19713.45	19713.22	19712.65	19711.80	19710.69	19709.37	19708.31	19707.09
9.0	19680.39	19681.00	19681.18	19680.95	19680.38	19679.49	19678.35	19676.98	19675.97	19674.80
9.5	19642.29	19642.94	19643.12	19642.88	19642.27	19641.34	19640.13	19638.71	19637.70	19636.52
10.0	19598.05	19598.73	19598.91	19598.65	19598.01	19597.03	19595.78	19594.30	19593.29	19592.13
10.5	19547.22	19547.95	19548.17	19547.92	19547.27	19546.27	19544.99	19543.49	19542.55	19541.45
11.0	19489.31	19490.12	19490.38	19490.16	19489.52	19488.52	19487.23	19485.72	19484.87	19483.85
11.5	19424.06	19424.95	19425.28	19425.10	19424.49	19423.52	19422.24	19420.73	19419.95	19419.01
12.0	19350.36	19351.36	19351.76	19351.64	19351.07	19350.11	19348.85	19347.35	19346.65	19345.80
12.5	19267.32	19268.43	19268.90	19268.81	19268.25	19267.28	19265.99	19264.46	19263.88	19263.14
13.0	19174.05	19175.32	19175.91	19175.89	19175.37	19174.43	19173.15	19171.62	19171.17	19170.56
13.5	19069.56	19071.14	19072.00	19072.21	19071.88	19071.09	19069.95	19068.53	19068.25	19067.80
14.0	18953.14	18955.06	18956.20	18956.64	18956.51	18955.88	18954.86	18953.54	18953.44	18953.14
14.5	18823.95	18826.11	18827.40	18827.95	18827.86	18827.23	18826.19	18824.84	18824.87	18824.70
15.0	18681.41	18683.78	18685.21	18685.84	18685.78	18685.15	18684.07	18682.67	18682.79	18682.71
15.5	18524.97	18527.57	18529.19	18529.96	18530.00	18529.45	18528.42	18527.05	18527.25	18527.22
16.0	18353.69	18356.55	18358.39	18359.34	18359.53	18359.07	18358.11	18356.77	18357.01	18356.99
16.5	18166.02	18169.28	18171.44	18172.63	18172.98	18172.65	18171.75	18170.42	18170.64	18170.57
17.0	17963.17	17966.82	17969.27	17970.68	17971.17	17970.89	17970.00	17968.63	17968.78	17968.61
17.5	17746.38	17750.27	17752.86	17754.31	17754.77	17754.41	17753.36	17751.79	17751.88	17751.61

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18.0	17514.02	17518.10	17520.80	17522.27	17522.68	17522.20	17520.98	17519.20	17519.14	17518.69
18.5	17264.79	17269.14	17272.04	17273.64	17274.12	17273.64	17272.36	17270.45	17270.08	17269.27
19.0	16998.83	17003.42	17006.50	17008.23	17008.77	17008.30	17006.96	17004.93	17004.26	17003.10
19.5	16715.39	16720.14	16723.31	16725.07	16725.60	16725.05	16723.60	16721.43	16720.69	16719.43
20.0	16415.82	16420.67	16423.87	16425.59	16426.03	16425.35	16423.73	16421.36	16420.56	16419.21
20.5	16101.75	16106.60	16109.74	16111.34	16111.59	16110.67	16108.78	16106.09	16105.05	16103.43
21.0	15771.65	15776.46	15779.49	15780.92	15780.95	15779.77	15777.57	15774.55	15773.19	15771.23
21.5	15424.32	15429.04	15431.94	15433.21	15433.03	15431.61	15429.13	15425.80	15424.05	15421.67
22.0	15060.44	15065.08	15067.86	15068.99	15068.64	15067.02	15064.32	15060.74	15058.65	15055.90
22.5	14679.69	14684.29	14687.03	14688.07	14687.63	14685.90	14683.07	14679.34	14677.12	14674.23
23.0	14283.76	14288.45	14291.22	14292.28	14291.83	14290.07	14287.19	14283.41	14281.14	14278.22
23.5	13874.28	13879.24	13882.23	13883.44	13883.09	13881.37	13878.51	13874.71	13872.43	13869.47
24.0	13451.19	13456.54	13459.85	13461.33	13461.20	13459.66	13456.93	13453.24	13451.08	13448.21
24.5	13014.60	13020.39	13024.12	13026.00	13026.26	13025.11	13022.76	13019.44	13017.69	13015.23
25.0	12565.76	12571.99	12576.17	12578.51	12579.22	12578.53	12576.65	12573.79	12572.49	12570.48
25.5	12104.95	12111.65	12116.31	12119.14	12120.35	12120.14	12118.72	12116.30	12115.17	12113.31
26.0	11635.14	11642.10	11647.06	11650.21	11651.76	11651.90	11650.85	11648.79	11647.91	11646.30
26.5	11158.73	11165.33	11169.96	11172.85	11174.20	11174.23	11173.16	11171.21	11171.05	11170.27
27.0	10677.63	10683.90	10688.26	10690.91	10692.10	10692.06	10691.01	10689.19	10689.75	10689.79
27.5	10193.79	10200.49	10205.31	10208.45	10210.14	10210.60	10210.05	10208.71	10209.47	10209.69
28.0	9709.55	9716.82	9722.24	9726.00	9728.33	9729.42	9729.47	9728.71	9729.60	9729.92
28.5	9226.40	9233.96	9239.73	9243.91	9246.70	9248.29	9248.88	9248.66	9249.96	9250.71
29.0	8748.93	8756.53	8762.43	8766.81	8769.87	8771.79	8772.76	8772.99	8774.81	8776.11
29.5	8282.48	8289.58	8295.08	8299.15	8301.99	8303.81	8304.80	8305.16	8307.60	8309.62
30.0	7826.38	7833.00	7838.09	7841.85	7844.48	7846.18	7847.15	7847.59	7850.51	7853.11
30.5	7380.93	7387.77	7393.14	7397.21	7400.18	7402.23	7403.54	7404.32	7407.19	7409.72
31.0	6948.61	6955.65	6961.26	6965.63	6968.91	6971.29	6972.93	6974.00	6976.76	6979.15
31.5	6531.53	6538.02	6543.19	6547.20	6550.23	6552.45	6554.02	6555.13	6558.20	6560.97
32.0	6131.09	6136.95	6141.57	6145.13	6147.81	6149.76	6151.17	6152.21	6155.53	6158.65
32.5	5749.98	5755.64	5760.10	5763.53	5766.09	5767.94	5769.26	5770.21	5773.30	5776.18
33.0	5386.45	5392.00	5396.38	5399.75	5402.26	5404.07	5405.34	5406.22	5408.98	5411.51
33.5	5038.64	5043.98	5048.21	5051.48	5053.94	5055.74	5057.02	5057.93	5060.57	5063.01
34.0	4709.53	4714.63	4718.71	4721.89	4724.31	4726.11	4727.44	4728.42	4730.99	4733.37
34.5	4401.21	4406.04	4409.95	4413.05	4415.47	4417.33	4418.75	4419.86	4422.33	4424.62
35.0	4114.46	4119.11	4122.89	4125.92	4128.30	4130.15	4131.58	4132.70	4135.05	4137.22
35.5	3854.54	3859.40	3863.24	3866.17	3868.34	3869.89	3870.95	3871.66	3873.81	3875.75
36.0	3610.05	3614.98	3618.79	3621.62	3623.62	3624.94	3625.73	3626.15	3628.11	3629.87
36.5	3366.38	3370.56	3373.96	3376.65	3378.75	3380.36	3381.58	3382.52	3384.45	3386.22
37.0	3138.34	3141.70	3144.64	3147.21	3149.44	3151.39	3153.10	3154.63	3156.57	3158.37
37.5	2939.30	2942.42	2945.20	2947.66	2949.85	2951.80	2953.54	2955.12	2956.96	2958.68
38.0	2758.97	2762.00	2764.68	2767.04	2769.12	2770.97	2772.60	2774.07	2775.80	2777.41
38.5	2591.28	2594.12	2596.64	2598.86	2600.82	2602.56	2604.11	2605.50	2607.14	2608.67
39.0	2436.96	2439.60	2441.95	2444.02	2445.85	2447.47	2448.92	2450.23	2451.79	2453.26
39.5	2295.10	2297.52	2299.67	2301.58	2303.28	2304.80	2306.17	2307.41	2308.92	2310.33
40.0	2164.53	2166.75	2168.74	2170.51	2172.10	2173.53	2174.83	2176.03	2177.47	2178.84
40.5	2043.92	2046.02	2047.92	2049.62	2051.15	2052.53	2053.80	2054.97	2056.36	2057.68
41.0	1932.82	1934.85	1936.69	1938.34	1939.84	1941.20	1942.44	1943.58	1944.91	1946.16
41.5	1830.54	1832.57	1834.41	1836.06	1837.55	1838.89	1840.11	1841.22	1842.43	1843.55
42.0	1736.51	1738.45	1740.21	1741.80	1743.23	1744.52	1745.69	1746.76	1747.89	1748.94
42.5	1650.65	1652.06	1653.35	1654.55	1655.66	1656.71	1657.72	1658.69	1660.03	1661.35
43.0	1570.75	1571.82	1572.83	1573.79	1574.72	1575.63	1576.54	1577.47	1578.92	1580.38
43.5	1494.00	1495.83	1497.53	1499.09	1500.53	1501.84	1503.04	1504.13	1505.05	1505.88
44.0	1422.12	1424.70	1427.06	1429.20	1431.11	1432.78	1434.23	1435.43	1435.85	1436.06
44.5	1356.27	1358.50	1360.51	1362.30	1363.88	1365.25	1366.42	1367.40	1367.96	1368.36
45.0	1295.23	1296.91	1298.39	1299.68	1300.81	1301.77	1302.61	1303.33	1304.16	1304.89
45.5	1238.23	1239.84	1241.25	1242.47	1243.54	1244.45	1245.24	1245.93	1246.76	1247.50

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46.0	1185.04	1186.68	1188.12	1189.38	1190.48	1191.43	1192.25	1192.95	1193.73	1194.41
46.5	1135.32	1136.93	1138.34	1139.59	1140.67	1141.60	1142.41	1143.09	1143.83	1144.47
47.0	1088.61	1090.20	1091.61	1092.85	1093.92	1094.85	1095.65	1096.33	1097.02	1097.61
47.5	1044.36	1046.01	1047.46	1048.74	1049.85	1050.81	1051.62	1052.30	1052.94	1053.46
48.0	1002.53	1004.23	1005.73	1007.05	1008.19	1009.17	1010.00	1010.68	1011.27	1011.74
48.5	962.96	964.63	966.11	967.40	968.53	969.49	970.30	970.97	971.56	972.03
49.0	925.48	927.11	928.55	929.81	930.90	931.84	932.63	933.28	933.87	934.34
49.5	889.91	891.52	892.95	894.20	895.29	896.22	896.99	897.63	898.20	898.63
50.0	856.13	857.73	859.16	860.40	861.48	862.40	863.16	863.79	864.32	864.73
50.5	824.06	825.64	827.03	828.25	829.31	830.20	830.95	831.56	832.09	832.49
51.0	793.47	795.01	796.38	797.58	798.62	799.50	800.24	800.83	801.35	801.75
51.5	764.08	765.64	767.03	768.24	769.28	770.16	770.89	771.48	771.96	772.31
52.0	735.83	737.42	738.83	740.05	741.10	741.98	742.70	743.27	743.71	744.01
52.5	708.57	710.15	711.54	712.75	713.78	714.64	715.35	715.90	716.33	716.61
53.0	682.36	683.92	685.28	686.47	687.47	688.31	688.99	689.52	689.94	690.22
53.5	657.34	658.85	660.18	661.33	662.31	663.12	663.78	664.29	664.69	664.95
54.0	633.18	634.66	635.96	637.08	638.03	638.82	639.45	639.94	640.32	640.56
54.5	609.54	611.01	612.31	613.42	614.36	615.15	615.77	616.25	616.61	616.84
55.0	586.63	588.10	589.39	590.49	591.43	592.20	592.81	593.28	593.63	593.84
55.5	564.64	566.07	567.31	568.37	569.27	570.00	570.58	571.02	571.36	571.57
56.0	543.34	544.72	545.91	546.92	547.77	548.46	548.99	549.39	549.72	549.93
56.5	522.54	523.87	525.01	525.97	526.78	527.42	527.93	528.30	528.61	528.81
57.0	502.38	503.64	504.73	505.64	506.39	506.99	507.45	507.78	508.09	508.28
57.5	482.93	484.14	485.16	486.01	486.69	487.23	487.63	487.91	488.20	488.39
58.0	464.09	465.23	466.17	466.94	467.56	468.02	468.36	468.58	468.86	469.03
58.5	445.75	446.79	447.64	448.31	448.84	449.22	449.48	449.63	449.91	450.11
59.0	427.97	428.91	429.66	430.24	430.66	430.96	431.14	431.22	431.51	431.72
59.5	410.80	411.66	412.32	412.80	413.14	413.35	413.45	413.46	413.74	413.95
60.0	394.21	394.99	395.57	395.97	396.22	396.34	396.37	396.31	396.57	396.78
60.5	378.12	378.84	379.35	379.68	379.86	379.92	379.87	379.76	380.00	380.19
61.0	362.68	363.34	363.78	364.04	364.14	364.12	364.00	363.81	364.03	364.20
61.5	348.14	348.72	349.07	349.22	349.21	349.07	348.83	348.53	348.72	348.87
62.0	334.10	334.61	334.88	334.93	334.81	334.55	334.20	333.80	333.97	334.11
62.5	320.15	320.63	320.86	320.87	320.71	320.41	320.03	319.59	319.77	319.94
63.0	306.60	307.03	307.20	307.17	306.96	306.62	306.19	305.73	305.93	306.13
63.5	293.69	293.95	293.96	293.76	293.41	292.95	292.41	291.86	292.07	292.29
64.0	281.29	281.37	281.22	280.87	280.38	279.79	279.15	278.51	278.72	278.95
64.5	269.31	269.33	269.11	268.71	268.17	267.54	266.86	266.19	266.38	266.61
65.0	257.83	257.82	257.59	257.17	256.62	255.97	255.28	254.60	254.78	254.99
65.5	246.92	246.90	246.65	246.22	245.66	245.01	244.33	243.64	243.79	243.98
66.0	236.50	236.48	236.23	235.82	235.27	234.63	233.95	233.27	233.39	233.54
66.5	226.48	226.49	226.29	225.91	225.39	224.79	224.13	223.47	223.54	223.63
67.0	216.92	216.97	216.79	216.44	215.95	215.37	214.73	214.07	214.09	214.13
67.5	207.94	207.96	207.75	207.37	206.85	206.23	205.56	204.88	204.87	204.87
68.0	199.27	199.25	199.01	198.60	198.04	197.40	196.69	195.98	195.95	195.94
68.5	190.60	190.60	190.38	189.98	189.45	188.82	188.13	187.43	187.38	187.35
69.0	182.16	182.18	181.99	181.62	181.11	180.50	179.83	179.15	179.08	179.03
69.5	174.17	174.18	173.97	173.58	173.05	172.43	171.74	171.04	170.93	170.85
70.0	166.42	166.41	166.18	165.78	165.23	164.59	163.89	163.17	163.03	162.91
70.5	158.73	158.73	158.52	158.12	157.59	156.95	156.26	155.55	155.42	155.31
71.0	151.23	151.25	151.05	150.67	150.15	149.54	148.86	148.17	148.06	147.97
71.5	144.03	144.04	143.84	143.47	142.96	142.36	141.69	141.01	140.90	140.80
72.0	137.02	137.03	136.83	136.47	135.98	135.40	134.76	134.09	133.97	133.86
72.5	130.09	130.12	129.96	129.63	129.19	128.65	128.06	127.44	127.31	127.19
73.0	123.37	123.42	123.29	123.01	122.62	122.13	121.59	121.03	120.89	120.76
73.5	116.95	117.02	116.92	116.68	116.33	115.88	115.39	114.86	114.70	114.54

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74.0	110.75	110.84	110.76	110.55	110.22	109.81	109.35	108.85	108.67	108.49
74.5	104.77	104.84	104.75	104.54	104.22	103.82	103.37	102.90	102.73	102.56
75.0	98.93	98.97	98.87	98.65	98.34	97.96	97.53	97.07	96.91	96.76
75.5	93.11	93.15	93.06	92.86	92.57	92.22	91.83	91.41	91.27	91.13
76.0	87.39	87.44	87.36	87.19	86.94	86.63	86.28	85.90	85.78	85.65
76.5	81.84	81.89	81.84	81.69	81.47	81.20	80.89	80.55	80.43	80.31
77.0	76.43	76.48	76.45	76.33	76.14	75.90	75.63	75.33	75.22	75.10
77.5	71.14	71.19	71.16	71.05	70.88	70.67	70.43	70.17	70.07	69.97
78.0	66.04	66.09	66.06	65.96	65.82	65.63	65.42	65.20	65.11	65.02
78.5	61.16	61.23	61.23	61.17	61.07	60.92	60.75	60.56	60.47	60.38
79.0	56.52	56.61	56.64	56.62	56.55	56.44	56.30	56.14	56.04	55.94
79.5	52.18	52.28	52.32	52.31	52.24	52.14	52.01	51.86	51.76	51.66
80.0	48.03	48.13	48.16	48.14	48.08	47.98	47.85	47.71	47.61	47.50
80.5	43.95	44.03	44.06	44.04	43.98	43.88	43.75	43.61	43.53	43.45
81.0	39.94	40.01	40.03	40.00	39.93	39.83	39.71	39.58	39.52	39.46
81.5	35.97	36.03	36.04	36.00	35.93	35.83	35.71	35.58	35.54	35.49
82.0	32.03	32.07	32.07	32.02	31.94	31.84	31.72	31.60	31.57	31.55
82.5	28.04	28.06	28.05	27.99	27.91	27.81	27.70	27.58	27.58	27.58
83.0	24.10	24.10	24.07	24.01	23.92	23.83	23.72	23.62	23.64	23.67
83.5	20.25	20.23	20.19	20.12	20.04	19.95	19.86	19.77	19.82	19.87
84.0	16.55	16.52	16.46	16.39	16.31	16.23	16.16	16.09	16.15	16.23
84.5	13.04	12.99	12.93	12.86	12.79	12.72	12.65	12.60	12.68	12.77
85.0	9.81	9.76	9.71	9.65	9.59	9.54	9.49	9.46	9.54	9.63
85.5	6.90	6.89	6.88	6.86	6.85	6.83	6.82	6.82	6.90	6.99
86.0	4.51	4.54	4.57	4.59	4.62	4.64	4.66	4.68	4.76	4.83
86.5	2.91	2.94	2.97	3.00	3.02	3.05	3.08	3.10	3.16	3.21
87.0	1.91	1.93	1.95	1.97	1.99	2.01	2.03	2.05	2.08	2.11
87.5	1.51	1.53	1.54	1.56	1.57	1.58	1.60	1.61	1.63	1.64
88.0	1.43	1.44	1.45	1.46	1.47	1.48	1.48	1.49	1.49	1.50
88.5	1.36	1.37	1.38	1.38	1.39	1.39	1.40	1.40	1.40	1.40
89.0	1.36	1.37	1.37	1.37	1.38	1.38	1.38	1.38	1.38	1.38
89.5	1.36	1.36	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
90.0	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38

**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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19827.77	19827.84	19827.92	19828.00	19828.08	19828.15	19828.22	19828.21	19828.18	19828.16
1.0	19829.57	19829.68	19829.80	19829.93	19830.04	19830.15	19830.25	19830.23	19830.20	19830.15
1.5	19832.72	19832.83	19832.95	19833.06	19833.18	19833.29	19833.39	19833.38	19833.36	19833.33
2.0	19835.91	19835.99	19836.07	19836.16	19836.24	19836.32	19836.39	19836.37	19836.33	19836.29
2.5	19838.02	19838.07	19838.13	19838.19	19838.23	19838.27	19838.30	19838.17	19838.03	19837.88
3.0	19838.91	19838.90	19838.88	19838.87	19838.84	19838.80	19838.74	19838.46	19838.17	19837.87
3.5	19838.14	19837.95	19837.77	19837.58	19837.38	19837.16	19836.92	19836.47	19836.00	19835.54
4.0	19835.50	19835.12	19834.73	19834.35	19833.95	19833.54	19833.11	19832.48	19831.85	19831.21
4.5	19830.60	19830.06	19829.51	19828.96	19828.40	19827.83	19827.26	19826.52	19825.77	19825.02
5.0	19823.58	19822.91	19822.24	19821.56	19820.87	19820.16	19819.45	19818.59	19817.72	19816.85
5.5	19814.49	19813.79	19813.08	19812.34	19811.59	19810.79	19809.97	19808.94	19807.88	19806.80
6.0	19803.21	19802.48	19801.72	19800.91	19800.06	19799.16	19798.21	19796.96	19795.66	19794.33
6.5	19789.82	19788.95	19788.01	19787.02	19785.97	19784.84	19783.65	19782.13	19780.55	19778.92
7.0	19773.85	19772.78	19771.63	19770.40	19769.09	19767.71	19766.24	19764.43	19762.56	19760.64
7.5	19755.18	19753.87	19752.46	19750.96	19749.37	19747.69	19745.92	19743.88	19741.77	19739.63
8.0	19732.77	19731.27	19729.65	19727.92	19726.08	19724.15	19722.14	19719.88	19717.56	19715.21
8.5	19705.72	19704.20	19702.54	19700.75	19698.84	19696.82	19694.70	19692.22	19689.67	19687.08
9.0	19673.46	19671.98	19670.34	19668.56	19666.65	19664.61	19662.45	19659.80	19657.07	19654.29

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CANDELA TABULATION - (Cont.)

9.5	19635.18	19633.68	19632.04	19630.25	19628.33	19626.27	19624.09	19621.40	19618.64	19615.82
10.0	19590.79	19589.31	19587.68	19585.90	19583.99	19581.95	19579.78	19577.12	19574.37	19571.57
10.5	19540.19	19538.78	19537.21	19535.51	19533.66	19531.67	19529.55	19526.92	19524.19	19521.39
11.0	19482.68	19481.36	19479.88	19478.25	19476.48	19474.56	19472.50	19469.89	19467.17	19464.38
11.5	19417.91	19416.65	19415.24	19413.66	19411.93	19410.05	19408.01	19405.39	19402.64	19399.81
12.0	19344.78	19343.60	19342.25	19340.74	19339.06	19337.22	19335.21	19332.58	19329.82	19326.96
12.5	19262.24	19261.17	19259.93	19258.53	19256.95	19255.20	19253.27	19250.70	19247.98	19245.16
13.0	19169.79	19168.84	19167.73	19166.44	19164.96	19163.30	19161.45	19158.94	19156.26	19153.46
13.5	19067.17	19066.35	19065.34	19064.14	19062.74	19061.13	19059.31	19056.76	19054.04	19051.16
14.0	18952.65	18951.95	18951.04	18949.91	18948.57	18947.00	18945.20	18942.60	18939.79	18936.83
14.5	18824.31	18823.72	18822.90	18821.86	18820.59	18819.07	18817.30	18814.68	18811.84	18808.82
15.0	18682.41	18681.89	18681.14	18680.15	18678.91	18677.42	18675.68	18673.02	18670.13	18667.05
15.5	18526.96	18526.47	18525.73	18524.74	18523.48	18521.96	18520.17	18517.46	18514.50	18511.34
16.0	18356.72	18356.20	18355.41	18354.35	18353.01	18351.39	18349.50	18346.69	18343.64	18340.38
16.5	18170.21	18169.56	18168.63	18167.41	18165.89	18164.09	18162.00	18159.07	18155.89	18152.50
17.0	17968.12	17967.31	17966.18	17964.75	17963.00	17960.96	17958.62	17955.50	17952.13	17948.55
17.5	17750.98	17750.01	17748.71	17747.07	17745.10	17742.81	17740.21	17736.80	17733.12	17729.22
18.0	17517.87	17516.66	17515.11	17513.19	17510.92	17508.31	17505.38	17501.62	17497.57	17493.30
18.5	17268.03	17266.38	17264.34	17261.93	17259.15	17256.04	17252.60	17248.50	17244.14	17239.55
19.0	17001.46	16999.37	16996.86	16993.95	16990.67	16987.04	16983.09	16978.59	16973.83	16968.86
19.5	16717.66	16715.40	16712.69	16709.54	16705.98	16702.03	16697.72	16692.64	16687.27	16681.67
20.0	16417.32	16414.93	16412.04	16408.68	16404.88	16400.63	16395.98	16390.31	16384.31	16378.06
20.5	16101.26	16098.56	16095.34	16091.63	16087.46	16082.83	16077.78	16071.67	16065.21	16058.50
21.0	15768.70	15765.61	15762.00	15757.89	15753.29	15748.24	15742.77	15736.22	15729.35	15722.21
21.5	15418.70	15415.15	15411.05	15406.44	15401.34	15395.78	15389.79	15382.69	15375.27	15367.61
22.0	15052.54	15048.58	15044.07	15039.04	15033.51	15027.52	15021.11	15013.56	15005.70	14997.62
22.5	14670.71	14666.61	14661.94	14656.75	14651.07	14644.94	14638.38	14630.76	14622.84	14614.71
23.0	14274.66	14270.51	14265.80	14260.58	14254.87	14248.71	14242.15	14234.63	14226.82	14218.79
23.5	13865.86	13861.66	13856.89	13851.61	13845.86	13839.67	13833.10	13825.71	13818.05	13810.19
24.0	13444.69	13440.56	13435.86	13430.65	13424.97	13418.87	13412.39	13405.22	13397.79	13390.17
24.5	13012.11	13008.38	13004.07	12999.24	12993.92	12988.17	12982.03	12975.15	12968.01	12960.66
25.0	12567.81	12564.51	12560.64	12556.23	12551.33	12545.99	12540.24	12533.73	12526.94	12519.94
25.5	12110.77	12107.59	12103.84	12099.55	12094.80	12089.62	12084.07	12077.97	12071.62	12065.10
26.0	11644.00	11641.08	11637.60	11633.60	11629.15	11624.29	11619.10	11613.44	11607.57	11601.55
26.5	11168.90	11166.96	11164.50	11161.55	11158.13	11154.29	11150.07	11144.84	11139.34	11133.65
27.0	10689.32	10688.35	10686.90	10684.98	10682.61	10679.79	10676.54	10671.85	10666.83	10661.57
27.5	10209.40	10208.62	10207.37	10205.69	10203.59	10201.10	10198.24	10194.38	10190.26	10185.93
28.0	9729.71	9729.00	9727.84	9726.27	9724.33	9722.04	9719.46	9716.43	9713.19	9709.81
28.5	9250.93	9250.66	9249.95	9248.83	9247.34	9245.52	9243.41	9240.87	9238.13	9235.24
29.0	8776.91	8777.25	8777.15	8776.65	8775.78	8774.57	8773.05	8770.89	8768.50	8765.96
29.5	8311.23	8312.43	8313.24	8313.67	8313.73	8313.42	8312.76	8311.00	8308.96	8306.72
30.0	7855.37	7857.28	7858.85	7860.06	7860.89	7861.36	7861.45	7860.12	7858.47	7856.57
30.5	7411.90	7413.75	7415.25	7416.43	7417.29	7417.81	7418.03	7417.27	7416.25	7415.02
31.0	6981.18	6982.87	6984.24	6985.31	6986.09	6986.60	6986.86	6986.59	6986.13	6985.51
31.5	6563.45	6565.64	6567.54	6569.16	6570.49	6571.54	6572.31	6572.22	6571.89	6571.38
32.0	6161.54	6164.18	6166.57	6168.69	6170.52	6172.05	6173.27	6173.23	6172.92	6172.38
32.5	5778.84	5781.26	5783.45	5785.38	5787.05	5788.44	5789.56	5789.54	5789.29	5788.85
33.0	5413.82	5415.89	5417.74	5419.35	5420.73	5421.88	5422.80	5422.84	5422.69	5422.40
33.5	5065.23	5067.23	5069.03	5070.63	5072.02	5073.21	5074.20	5074.47	5074.59	5074.60
34.0	4735.55	4737.55	4739.35	4740.97	4742.42	4743.68	4744.78	4745.29	4745.67	4745.95
34.5	4426.72	4428.65	4430.39	4431.97	4433.39	4434.64	4435.74	4436.30	4436.75	4437.11
35.0	4139.20	4141.02	4142.66	4144.15	4145.49	4146.68	4147.73	4148.32	4148.81	4149.23
35.5	3877.51	3879.09	3880.52	3881.81	3882.97	3884.01	3884.94	3885.66	3886.32	3886.93
36.0	3631.44	3632.84	3634.09	3635.22	3636.24	3637.17	3638.03	3638.88	3639.69	3640.48
36.5	3387.83	3389.30	3390.65	3391.88	3393.02	3394.07	3395.05	3395.93	3396.77	3397.59
37.0	3160.06	3161.63	3163.09	3164.45	3165.72	3166.91	3168.02	3168.89	3169.71	3170.50

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CANDELA TABULATION - (Cont.)

37.5	2960.28	2961.78	2963.17	2964.48	2965.69	2966.83	2967.90	2968.73	2969.52	2970.29
38.0	2778.90	2780.28	2781.57	2782.77	2783.89	2784.94	2785.92	2786.70	2787.43	2788.15
38.5	2610.09	2611.41	2612.64	2613.78	2614.85	2615.83	2616.76	2617.44	2618.08	2618.70
39.0	2454.62	2455.90	2457.08	2458.18	2459.20	2460.15	2461.03	2461.64	2462.20	2462.74
39.5	2311.66	2312.91	2314.08	2315.17	2316.19	2317.15	2318.04	2318.66	2319.24	2319.80
40.0	2180.13	2181.36	2182.51	2183.59	2184.61	2185.57	2186.47	2187.12	2187.74	2188.32
40.5	2058.92	2060.10	2061.21	2062.26	2063.23	2064.15	2065.01	2065.64	2066.22	2066.77
41.0	1947.35	1948.46	1949.50	1950.48	1951.39	1952.24	1953.02	1953.60	1954.14	1954.63
41.5	1844.59	1845.55	1846.44	1847.27	1848.03	1848.73	1849.39	1849.93	1850.44	1850.91
42.0	1749.91	1750.81	1751.63	1752.38	1753.06	1753.69	1754.26	1754.72	1755.14	1755.53
42.5	1662.63	1663.86	1665.02	1666.11	1667.11	1668.00	1668.79	1668.96	1669.03	1669.02
43.0	1581.82	1583.22	1584.57	1585.83	1586.99	1588.02	1588.90	1588.90	1588.77	1588.52
43.5	1506.62	1507.27	1507.84	1508.34	1508.78	1509.17	1509.51	1509.92	1510.29	1510.63
44.0	1436.11	1436.02	1435.84	1435.60	1435.33	1435.09	1434.90	1435.70	1436.56	1437.45
44.5	1368.62	1368.77	1368.82	1368.82	1368.77	1368.71	1368.65	1369.21	1369.78	1370.35
45.0	1305.53	1306.09	1306.57	1306.98	1307.31	1307.57	1307.77	1307.97	1308.11	1308.18
45.5	1248.16	1248.73	1249.23	1249.63	1249.96	1250.21	1250.39	1250.46	1250.46	1250.40
46.0	1195.00	1195.49	1195.90	1196.22	1196.46	1196.61	1196.69	1196.72	1196.67	1196.55
46.5	1145.02	1145.47	1145.82	1146.09	1146.28	1146.38	1146.41	1146.39	1146.29	1146.12
47.0	1098.10	1098.49	1098.79	1099.00	1099.13	1099.17	1099.13	1099.08	1098.95	1098.75
47.5	1053.88	1054.19	1054.40	1054.52	1054.55	1054.50	1054.37	1054.29	1054.13	1053.90
48.0	1012.09	1012.33	1012.46	1012.50	1012.45	1012.32	1012.11	1011.98	1011.78	1011.51
48.5	972.37	972.60	972.72	972.75	972.67	972.51	972.27	972.05	971.75	971.37
49.0	934.69	934.92	935.05	935.07	934.99	934.81	934.54	934.24	933.85	933.38
49.5	898.95	899.15	899.24	899.23	899.11	898.90	898.60	898.30	897.90	897.43
50.0	865.01	865.18	865.23	865.18	865.03	864.79	864.46	864.15	863.75	863.27
50.5	832.77	832.93	832.98	832.92	832.75	832.49	832.13	831.74	831.26	830.69
51.0	802.02	802.17	802.20	802.12	801.93	801.64	801.24	800.77	800.19	799.53
51.5	772.53	772.62	772.60	772.46	772.21	771.86	771.40	770.88	770.27	769.56
52.0	744.18	744.22	744.14	743.95	743.64	743.23	742.72	742.18	741.54	740.82
52.5	716.77	716.79	716.70	716.49	716.17	715.74	715.22	714.67	714.02	713.29
53.0	690.37	690.39	690.29	690.07	689.75	689.32	688.80	688.23	687.57	686.83
53.5	665.08	665.08	664.97	664.74	664.39	663.95	663.40	662.79	662.09	661.29
54.0	640.67	640.66	640.53	640.28	639.92	639.45	638.89	638.23	637.48	636.65
54.5	616.94	616.91	616.76	616.50	616.12	615.64	615.06	614.40	613.64	612.79
55.0	593.93	593.89	593.73	593.46	593.07	592.59	592.00	591.34	590.58	589.74
55.5	571.65	571.61	571.45	571.18	570.81	570.33	569.76	569.11	568.37	567.54
56.0	550.01	549.97	549.82	549.57	549.20	548.74	548.19	547.56	546.83	546.03
56.5	528.89	528.86	528.72	528.47	528.12	527.68	527.15	526.52	525.82	525.03
57.0	508.36	508.33	508.20	507.96	507.63	507.21	506.70	506.09	505.40	504.64
57.5	488.46	488.44	488.31	488.09	487.77	487.37	486.88	486.29	485.63	484.89
58.0	469.11	469.10	468.99	468.79	468.50	468.12	467.66	467.10	466.47	465.76
58.5	450.21	450.23	450.16	450.01	449.77	449.45	449.04	448.52	447.91	447.23
59.0	431.85	431.91	431.88	431.78	431.60	431.33	430.98	430.49	429.92	429.27
59.5	414.09	414.17	414.17	414.10	413.95	413.73	413.42	412.97	412.43	411.82
60.0	396.92	397.01	397.02	396.98	396.86	396.67	396.40	395.98	395.49	394.92
60.5	380.33	380.41	380.44	380.40	380.30	380.14	379.90	379.53	379.09	378.58
61.0	364.33	364.42	364.45	364.43	364.34	364.20	364.00	363.67	363.28	362.82
61.5	348.99	349.07	349.11	349.10	349.04	348.93	348.75	348.47	348.11	347.70
62.0	334.23	334.32	334.38	334.39	334.35	334.26	334.12	333.86	333.53	333.14
62.5	320.09	320.21	320.29	320.33	320.32	320.26	320.14	319.86	319.51	319.09
63.0	306.32	306.48	306.60	306.69	306.72	306.70	306.61	306.31	305.94	305.50
63.5	292.52	292.73	292.92	293.08	293.20	293.26	293.26	293.00	292.67	292.26
64.0	279.21	279.47	279.72	279.95	280.14	280.28	280.36	280.15	279.86	279.51
64.5	266.87	267.14	267.40	267.64	267.85	268.01	268.12	267.93	267.67	267.34
65.0	255.23	255.48	255.73	255.96	256.16	256.32	256.43	256.26	256.01	255.71

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65.5	244.20	244.42	244.65	244.86	245.05	245.20	245.29	245.13	244.90	244.61
66.0	233.72	233.91	234.10	234.28	234.43	234.55	234.62	234.47	234.26	234.00
66.5	223.74	223.87	223.99	224.10	224.20	224.27	224.30	224.18	224.01	223.79
67.0	214.18	214.24	214.30	214.35	214.39	214.41	214.41	214.32	214.19	214.02
67.5	204.90	204.94	204.97	205.01	205.04	205.05	205.05	204.97	204.87	204.73
68.0	195.94	195.97	196.00	196.03	196.05	196.07	196.07	196.01	195.92	195.80
68.5	187.34	187.34	187.35	187.36	187.37	187.37	187.36	187.31	187.23	187.13
69.0	178.99	178.97	178.96	178.94	178.93	178.91	178.89	178.85	178.80	178.72
69.5	170.78	170.72	170.67	170.63	170.60	170.57	170.54	170.54	170.53	170.51
70.0	162.81	162.73	162.66	162.60	162.55	162.51	162.47	162.50	162.52	162.54
70.5	155.22	155.15	155.08	155.03	154.98	154.94	154.90	154.90	154.89	154.88
71.0	147.89	147.82	147.77	147.72	147.68	147.63	147.59	147.55	147.51	147.46
71.5	140.71	140.64	140.58	140.52	140.47	140.42	140.36	140.31	140.25	140.18
72.0	133.76	133.68	133.60	133.53	133.46	133.39	133.33	133.26	133.19	133.11
72.5	127.08	126.98	126.88	126.79	126.71	126.62	126.53	126.45	126.37	126.28
73.0	120.63	120.51	120.39	120.27	120.16	120.05	119.94	119.85	119.75	119.66
73.5	114.38	114.23	114.07	113.92	113.78	113.64	113.50	113.41	113.32	113.24
74.0	108.31	108.13	107.95	107.78	107.61	107.44	107.29	107.20	107.12	107.04
74.5	102.38	102.21	102.04	101.87	101.71	101.55	101.40	101.30	101.21	101.12
75.0	96.61	96.45	96.30	96.15	96.01	95.87	95.73	95.62	95.51	95.41
75.5	90.99	90.85	90.72	90.58	90.45	90.32	90.19	90.08	89.97	89.86
76.0	85.52	85.40	85.27	85.14	85.02	84.90	84.78	84.67	84.57	84.47
76.5	80.18	80.06	79.93	79.80	79.68	79.56	79.45	79.36	79.28	79.21
77.0	74.97	74.85	74.72	74.60	74.48	74.37	74.26	74.20	74.15	74.10
77.5	69.86	69.76	69.66	69.56	69.46	69.37	69.28	69.24	69.20	69.17
78.0	64.94	64.85	64.76	64.68	64.60	64.53	64.46	64.43	64.41	64.40
78.5	60.28	60.18	60.09	59.99	59.90	59.82	59.75	59.74	59.75	59.76
79.0	55.83	55.71	55.60	55.49	55.39	55.30	55.22	55.23	55.25	55.29
79.5	51.54	51.42	51.31	51.20	51.09	51.00	50.93	50.95	50.99	51.05
80.0	47.39	47.28	47.17	47.07	46.97	46.89	46.82	46.86	46.91	46.98
80.5	43.36	43.27	43.18	43.09	43.02	42.95	42.90	42.94	42.99	43.05
81.0	39.39	39.33	39.26	39.21	39.16	39.11	39.08	39.12	39.16	39.22
81.5	35.45	35.41	35.38	35.34	35.32	35.30	35.29	35.33	35.37	35.43
82.0	31.54	31.52	31.51	31.50	31.50	31.51	31.52	31.56	31.61	31.66
82.5	27.59	27.60	27.62	27.64	27.66	27.69	27.73	27.77	27.82	27.87
83.0	23.70	23.74	23.79	23.84	23.89	23.94	24.00	24.04	24.08	24.12
83.5	19.94	20.01	20.08	20.16	20.24	20.32	20.40	20.43	20.47	20.50
84.0	16.32	16.42	16.52	16.62	16.73	16.83	16.92	16.95	16.98	16.99
84.5	12.87	12.98	13.09	13.21	13.32	13.43	13.53	13.56	13.57	13.58
85.0	9.74	9.85	9.96	10.08	10.19	10.30	10.40	10.42	10.43	10.43
85.5	7.08	7.18	7.28	7.38	7.48	7.57	7.65	7.68	7.69	7.70
86.0	4.91	4.99	5.06	5.14	5.21	5.28	5.34	5.37	5.39	5.40
86.5	3.26	3.32	3.37	3.42	3.47	3.51	3.55	3.57	3.58	3.59
87.0	2.14	2.17	2.20	2.23	2.25	2.28	2.30	2.30	2.31	2.31
87.5	1.65	1.67	1.68	1.69	1.70	1.71	1.72	1.73	1.73	1.73
88.0	1.50	1.50	1.50	1.50	1.50	1.51	1.51	1.51	1.52	1.52
88.5	1.40	1.39	1.39	1.39	1.39	1.39	1.38	1.39	1.39	1.40
89.0	1.38	1.37	1.37	1.37	1.37	1.37	1.36	1.37	1.37	1.37
89.5	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
90.0	1.38	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39

**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	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19828.12	19828.08	19828.04	19827.99	19827.95	19827.91	19827.91	19827.91	19827.91	19827.91

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1.0	19830.10	19830.03	19829.97	19829.91	19829.85	19829.79	19829.79	19829.80	19829.82	19829.85
1.5	19833.29	19833.25	19833.21	19833.17	19833.13	19833.10	19833.14	19833.18	19833.23	19833.29
2.0	19836.25	19836.20	19836.16	19836.13	19836.10	19836.09	19836.16	19836.24	19836.33	19836.43
2.5	19837.73	19837.58	19837.44	19837.32	19837.22	19837.14	19837.24	19837.37	19837.52	19837.68
3.0	19837.57	19837.27	19837.00	19836.75	19836.54	19836.36	19836.46	19836.60	19836.78	19836.98
3.5	19835.07	19834.63	19834.20	19833.82	19833.48	19833.20	19833.22	19833.31	19833.44	19833.61
4.0	19830.59	19829.98	19829.41	19828.89	19828.41	19828.00	19827.89	19827.84	19827.86	19827.93
4.5	19824.29	19823.57	19822.89	19822.24	19821.63	19821.09	19820.76	19820.49	19820.28	19820.12
5.0	19815.99	19815.13	19814.30	19813.49	19812.72	19811.99	19811.40	19810.86	19810.38	19809.93
5.5	19805.71	19804.61	19803.53	19802.46	19801.41	19800.40	19799.50	19798.64	19797.84	19797.09
6.0	19792.97	19791.60	19790.22	19788.86	19787.51	19786.20	19785.01	19783.88	19782.80	19781.79
6.5	19777.27	19775.60	19773.94	19772.29	19770.68	19769.13	19767.80	19766.54	19765.36	19764.25
7.0	19758.71	19756.76	19754.83	19752.93	19751.09	19749.31	19747.90	19746.57	19745.32	19744.17
7.5	19737.48	19735.32	19733.19	19731.10	19729.07	19727.13	19725.57	19724.11	19722.76	19721.50
8.0	19712.86	19710.50	19708.19	19705.92	19703.73	19701.64	19699.97	19698.43	19697.00	19695.67
8.5	19684.48	19681.88	19679.33	19676.85	19674.46	19672.20	19670.54	19669.02	19667.64	19666.39
9.0	19651.48	19648.70	19645.96	19643.30	19640.75	19638.35	19636.72	19635.26	19633.96	19632.80
9.5	19612.98	19610.15	19607.38	19604.68	19602.11	19599.68	19598.06	19596.61	19595.31	19594.17
10.0	19568.75	19565.93	19563.17	19560.48	19557.90	19555.47	19553.82	19552.35	19551.02	19549.84
10.5	19518.57	19515.75	19512.96	19510.25	19507.64	19505.16	19503.42	19501.85	19500.42	19499.13
11.0	19461.55	19458.71	19455.89	19453.13	19450.46	19447.91	19446.06	19444.35	19442.79	19441.35
11.5	19396.93	19394.03	19391.14	19388.30	19385.55	19382.90	19380.93	19379.09	19377.39	19375.82
12.0	19324.03	19321.07	19318.11	19315.19	19312.34	19309.59	19307.47	19305.48	19303.62	19301.89
12.5	19242.25	19239.28	19236.30	19233.34	19230.43	19227.59	19225.26	19223.05	19220.96	19218.98
13.0	19150.55	19147.57	19144.57	19141.55	19138.57	19135.64	19133.13	19130.72	19128.42	19126.22
13.5	19048.18	19045.11	19042.00	19038.88	19035.78	19032.73	19030.17	19027.70	19025.34	19023.07
14.0	18933.75	18930.57	18927.34	18924.11	18920.89	18917.73	18915.15	18912.67	18910.29	18908.01
14.5	18805.67	18802.42	18799.12	18795.80	18792.50	18789.26	18786.68	18784.19	18781.80	18779.51
15.0	18663.84	18660.51	18657.12	18653.71	18650.32	18646.99	18644.35	18641.81	18639.37	18637.01
15.5	18508.03	18504.60	18501.09	18497.55	18494.01	18490.52	18487.68	18484.92	18482.24	18479.65
16.0	18336.95	18333.39	18329.74	18326.05	18322.35	18318.68	18315.59	18312.58	18309.65	18306.80
16.5	18148.95	18145.26	18141.48	18137.65	18133.81	18130.01	18126.78	18123.62	18120.54	18117.54
17.0	17944.81	17940.93	17936.96	17932.94	17928.92	17924.93	17921.52	17918.20	17914.95	17911.78
17.5	17725.14	17720.91	17716.60	17712.24	17707.87	17703.54	17699.82	17696.18	17692.63	17689.17
18.0	17488.84	17484.24	17479.54	17474.80	17470.05	17465.35	17461.24	17457.24	17453.33	17449.54
18.5	17234.80	17229.90	17224.93	17219.90	17214.88	17209.90	17205.39	17200.99	17196.70	17192.55
19.0	16963.73	16958.48	16953.14	16947.78	16942.43	16937.13	16932.23	16927.46	16922.82	16918.35
19.5	16675.90	16670.00	16664.04	16658.06	16652.13	16646.30	16641.13	16636.13	16631.32	16626.72
20.0	16371.62	16365.05	16358.43	16351.82	16345.29	16338.90	16333.44	16328.20	16323.21	16318.47
20.5	16051.59	16044.56	16037.47	16030.41	16023.43	16016.61	16010.66	16004.97	15999.55	15994.43
21.0	15714.89	15707.46	15699.98	15692.54	15685.20	15678.04	15671.68	15665.61	15659.86	15654.45
21.5	15359.78	15351.88	15343.98	15336.17	15328.53	15321.14	15314.81	15308.83	15303.25	15298.07
22.0	14989.42	14981.16	14972.96	14964.88	14957.03	14949.49	14943.23	14937.38	14931.98	14927.05
22.5	14606.44	14598.13	14589.86	14581.71	14573.77	14566.13	14559.58	14553.44	14547.74	14542.53
23.0	14210.63	14202.42	14194.23	14186.15	14178.25	14170.63	14163.81	14157.39	14151.41	14145.91
23.5	13802.22	13794.21	13786.23	13778.37	13770.69	13763.28	13756.60	13750.31	13744.46	13739.10
24.0	13382.46	13374.71	13367.00	13359.41	13352.02	13344.90	13338.46	13332.42	13326.82	13321.71
24.5	12953.20	12945.69	12938.21	12930.83	12923.63	12916.68	12910.36	12904.43	12898.92	12893.90
25.0	12512.80	12505.60	12498.43	12491.34	12484.42	12477.74	12471.66	12465.96	12460.68	12455.88
25.5	12058.48	12051.82	12045.20	12038.69	12032.35	12026.27	12020.84	12015.77	12011.11	12006.93
26.0	11595.45	11589.34	11583.29	11577.37	11571.66	11566.21	11561.55	11557.26	11553.39	11549.97
26.5	11127.84	11122.01	11116.23	11110.59	11105.17	11100.04	11096.19	11092.74	11089.70	11087.09
27.0	10656.17	10650.72	10645.31	10640.03	10634.97	10630.22	10627.08	10624.34	10622.01	10620.08
27.5	10181.48	10176.99	10172.52	10168.14	10163.94	10159.99	10157.20	10154.74	10152.63	10150.86
28.0	9706.33	9702.81	9699.30	9695.86	9692.54	9689.40	9686.92	9684.69	9682.74	9681.08
28.5	9232.26	9229.24	9226.24	9223.30	9220.49	9217.85	9215.94	9214.28	9212.87	9211.74

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CANDELA TABULATION - (Cont.)

29.0	8763.31	8760.62	8757.94	8755.33	8752.85	8750.55	8749.21	8748.11	8747.28	8746.70
29.5	8304.32	8301.84	8299.35	8296.91	8294.58	8292.44	8291.41	8290.63	8290.11	8289.83
30.0	7854.49	7852.30	7850.06	7847.85	7845.74	7843.79	7843.02	7842.49	7842.18	7842.11
30.5	7413.65	7412.18	7410.66	7409.15	7407.71	7406.39	7405.94	7405.66	7405.56	7405.64
31.0	6984.78	6983.96	6983.11	6982.26	6981.45	6980.72	6980.59	6980.58	6980.70	6980.95
31.5	6570.73	6569.99	6569.20	6568.41	6567.66	6567.01	6567.18	6567.49	6567.92	6568.48
32.0	6171.69	6170.89	6170.05	6169.21	6168.43	6167.77	6168.24	6168.86	6169.63	6170.53
32.5	5788.28	5787.63	5786.97	5786.33	5785.78	5785.37	5786.12	5787.05	5788.13	5789.35
33.0	5422.02	5421.60	5421.19	5420.83	5420.57	5420.47	5421.48	5422.67	5424.02	5425.49
33.5	5074.53	5074.43	5074.34	5074.30	5074.35	5074.54	5075.76	5077.14	5078.64	5080.25
34.0	4746.17	4746.36	4746.57	4746.81	4747.14	4747.59	4748.97	4750.48	4752.10	4753.79
34.5	4437.42	4437.71	4438.03	4438.39	4438.84	4439.41	4440.91	4442.53	4444.26	4446.07
35.0	4149.61	4149.98	4150.38	4150.84	4151.39	4152.06	4153.62	4155.31	4157.11	4158.99
35.5	3887.53	3888.13	3888.76	3889.44	3890.20	3891.06	3892.62	3894.27	3896.02	3897.83
36.0	3641.27	3642.07	3642.91	3643.79	3644.74	3645.77	3647.32	3648.96	3650.66	3652.42
36.5	3398.41	3399.24	3400.11	3401.03	3402.01	3403.09	3404.78	3406.56	3408.41	3410.30
37.0	3171.29	3172.09	3172.93	3173.82	3174.79	3175.87	3177.70	3179.63	3181.62	3183.65
37.5	2971.06	2971.84	2972.67	2973.56	2974.53	2975.60	2977.44	2979.38	2981.38	2983.42
38.0	2788.88	2789.62	2790.42	2791.27	2792.21	2793.25	2795.05	2796.95	2798.92	2800.93
38.5	2619.33	2619.98	2620.67	2621.44	2622.29	2623.25	2625.03	2626.90	2628.85	2630.83
39.0	2463.28	2463.84	2464.45	2465.12	2465.88	2466.75	2468.46	2470.26	2472.13	2474.03
39.5	2320.35	2320.91	2321.51	2322.16	2322.88	2323.69	2325.21	2326.82	2328.49	2330.18
40.0	2188.89	2189.47	2190.06	2190.69	2191.37	2192.11	2193.44	2194.83	2196.26	2197.70
40.5	2067.30	2067.83	2068.37	2068.93	2069.53	2070.18	2071.36	2072.59	2073.84	2075.09
41.0	1955.11	1955.57	1956.04	1956.52	1957.03	1957.58	1958.62	1959.70	1960.79	1961.87
41.5	1851.37	1851.81	1852.25	1852.70	1853.16	1853.64	1854.52	1855.42	1856.32	1857.19
42.0	1755.89	1756.23	1756.57	1756.91	1757.26	1757.63	1758.40	1759.17	1759.94	1760.68
42.5	1668.96	1668.86	1668.76	1668.67	1668.62	1668.64	1669.50	1670.41	1671.35	1672.27
43.0	1588.20	1587.83	1587.45	1587.08	1586.77	1586.54	1587.36	1588.25	1589.18	1590.10
43.5	1510.92	1511.18	1511.40	1511.58	1511.73	1511.84	1511.97	1512.07	1512.11	1512.11
44.0	1438.34	1439.20	1440.00	1440.71	1441.30	1441.73	1441.20	1440.52	1439.70	1438.79
44.5	1370.90	1371.39	1371.83	1372.18	1372.43	1372.56	1372.06	1371.44	1370.71	1369.89
45.0	1308.20	1308.15	1308.05	1307.89	1307.66	1307.38	1307.04	1306.64	1306.19	1305.67
45.5	1250.26	1250.06	1249.80	1249.47	1249.09	1248.66	1248.23	1247.76	1247.22	1246.64
46.0	1196.35	1196.10	1195.77	1195.38	1194.93	1194.41	1193.84	1193.21	1192.52	1191.77
46.5	1145.88	1145.56	1145.17	1144.70	1144.17	1143.56	1142.84	1142.05	1141.20	1140.29
47.0	1098.46	1098.10	1097.66	1097.15	1096.55	1095.87	1095.00	1094.05	1093.03	1091.96
47.5	1053.59	1053.20	1052.73	1052.17	1051.53	1050.80	1049.81	1048.73	1047.59	1046.39
48.0	1011.15	1010.72	1010.21	1009.61	1008.91	1008.13	1007.04	1005.87	1004.62	1003.32
48.5	970.91	970.37	969.75	969.04	968.24	967.35	966.20	964.96	963.67	962.31
49.0	932.82	932.18	931.45	930.64	929.74	928.76	927.54	926.26	924.91	923.52
49.5	896.86	896.21	895.47	894.64	893.72	892.71	891.40	890.01	888.56	887.07
50.0	862.70	862.05	861.30	860.45	859.51	858.48	857.09	855.62	854.09	852.51
50.5	830.03	829.28	828.44	827.51	826.49	825.39	823.99	822.51	820.98	819.41
51.0	798.77	797.92	796.99	795.98	794.88	793.71	792.30	790.84	789.33	787.78
51.5	768.77	767.89	766.92	765.88	764.75	763.55	762.11	760.60	759.06	757.48
52.0	740.01	739.11	738.13	737.08	735.94	734.73	733.25	731.71	730.13	728.52
52.5	712.47	711.57	710.58	709.52	708.38	707.17	705.68	704.15	702.56	700.96
53.0	686.00	685.08	684.09	683.02	681.87	680.66	679.18	677.66	676.09	674.50
53.5	660.42	659.46	658.43	657.33	656.15	654.91	653.44	651.92	650.37	648.80
54.0	635.73	634.74	633.67	632.53	631.33	630.07	628.60	627.10	625.57	624.03
54.5	611.87	610.87	609.80	608.66	607.46	606.21	604.77	603.29	601.79	600.28
55.0	588.83	587.84	586.78	585.66	584.47	583.24	581.82	580.36	578.89	577.41
55.5	566.64	565.67	564.62	563.52	562.35	561.13	559.70	558.24	556.76	555.28
56.0	545.15	544.20	543.17	542.09	540.94	539.73	538.31	536.85	535.37	533.88
56.5	524.17	523.24	522.24	521.17	520.05	518.87	517.48	516.06	514.62	513.17

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57.0	503.80	502.89	501.91	500.88	499.78	498.64	497.28	495.89	494.49	493.08
57.5	484.08	483.20	482.25	481.24	480.17	479.05	477.70	476.31	474.90	473.50
58.0	464.98	464.12	463.20	462.22	461.18	460.08	458.73	457.34	455.93	454.52
58.5	446.48	445.65	444.76	443.80	442.79	441.71	440.38	439.01	437.63	436.24
59.0	428.55	427.75	426.89	425.96	424.98	423.93	422.63	421.29	419.93	418.57
59.5	411.14	410.38	409.56	408.67	407.72	406.70	405.42	404.10	402.75	401.41
60.0	394.28	393.57	392.79	391.95	391.04	390.07	388.80	387.49	386.17	384.84
60.5	378.00	377.34	376.62	375.83	374.98	374.06	372.81	371.52	370.21	368.89
61.0	362.29	361.69	361.03	360.30	359.50	358.63	357.41	356.14	354.85	353.55
61.5	347.22	346.67	346.06	345.37	344.62	343.81	342.63	341.40	340.14	338.88
62.0	332.68	332.16	331.58	330.93	330.21	329.42	328.28	327.09	325.88	324.66
62.5	318.61	318.06	317.45	316.78	316.04	315.23	314.10	312.93	311.73	310.54
63.0	305.00	304.42	303.78	303.08	302.32	301.51	300.38	299.23	298.05	296.89
63.5	291.79	291.25	290.64	289.98	289.25	288.46	287.38	286.27	285.14	284.01
64.0	279.08	278.59	278.03	277.40	276.72	275.98	274.95	273.89	272.81	271.73
64.5	266.94	266.48	265.95	265.37	264.72	264.02	263.03	262.01	260.97	259.94
65.0	255.34	254.90	254.41	253.85	253.24	252.58	251.63	250.65	249.65	248.66
65.5	244.26	243.85	243.39	242.86	242.29	241.66	240.74	239.80	238.84	237.89
66.0	233.68	233.30	232.87	232.38	231.85	231.26	230.38	229.47	228.55	227.63
66.5	223.52	223.21	222.84	222.42	221.95	221.43	220.59	219.71	218.81	217.92
67.0	213.81	213.56	213.26	212.91	212.50	212.04	211.24	210.39	209.52	208.66
67.5	204.55	204.33	204.07	203.76	203.40	202.99	202.23	201.42	200.60	199.78
68.0	195.65	195.46	195.23	194.95	194.63	194.26	193.54	192.79	192.02	191.25
68.5	187.01	186.84	186.65	186.41	186.12	185.79	185.14	184.45	183.74	183.03
69.0	178.62	178.50	178.33	178.14	177.89	177.61	177.01	176.37	175.72	175.06
69.5	170.46	170.39	170.29	170.16	169.98	169.75	169.17	168.56	167.93	167.29
70.0	162.54	162.51	162.46	162.36	162.23	162.05	161.50	160.91	160.30	159.68
70.5	154.85	154.80	154.73	154.62	154.48	154.30	153.80	153.27	152.72	152.17
71.0	147.39	147.30	147.19	147.06	146.89	146.70	146.26	145.80	145.32	144.85
71.5	140.10	140.00	139.89	139.76	139.60	139.41	139.02	138.61	138.19	137.78
72.0	133.03	132.93	132.82	132.69	132.54	132.37	132.02	131.66	131.29	130.93
72.5	126.18	126.08	125.96	125.83	125.69	125.53	125.23	124.91	124.59	124.28
73.0	119.56	119.45	119.34	119.22	119.08	118.94	118.67	118.39	118.12	117.84
73.5	113.15	113.06	112.97	112.87	112.76	112.64	112.40	112.14	111.89	111.64
74.0	106.97	106.90	106.82	106.74	106.65	106.55	106.33	106.10	105.87	105.64
74.5	101.03	100.95	100.86	100.78	100.68	100.58	100.39	100.20	100.00	99.81
75.0	95.31	95.21	95.11	95.01	94.91	94.80	94.64	94.48	94.32	94.17
75.5	89.76	89.66	89.56	89.46	89.36	89.26	89.12	88.99	88.86	88.73
76.0	84.38	84.28	84.19	84.10	84.01	83.92	83.81	83.70	83.60	83.50
76.5	79.13	79.07	79.00	78.94	78.87	78.81	78.73	78.64	78.56	78.48
77.0	74.05	74.01	73.98	73.94	73.91	73.88	73.82	73.75	73.69	73.64
77.5	69.14	69.12	69.10	69.08	69.07	69.05	69.02	68.98	68.95	68.91
78.0	64.39	64.38	64.38	64.38	64.39	64.39	64.38	64.36	64.35	64.34
78.5	59.77	59.80	59.83	59.86	59.89	59.92	59.92	59.92	59.92	59.92
79.0	55.33	55.39	55.44	55.50	55.56	55.62	55.63	55.64	55.65	55.65
79.5	51.11	51.19	51.26	51.34	51.42	51.49	51.51	51.53	51.53	51.54
80.0	47.06	47.14	47.23	47.32	47.40	47.48	47.50	47.52	47.52	47.52
80.5	43.12	43.20	43.28	43.36	43.44	43.52	43.54	43.56	43.57	43.57
81.0	39.28	39.35	39.42	39.49	39.56	39.62	39.64	39.66	39.68	39.69
81.5	35.49	35.55	35.62	35.68	35.74	35.80	35.83	35.85	35.87	35.88
82.0	31.72	31.78	31.84	31.90	31.96	32.01	32.04	32.07	32.09	32.11
82.5	27.92	27.97	28.02	28.07	28.12	28.17	28.21	28.24	28.27	28.30
83.0	24.16	24.20	24.24	24.28	24.32	24.36	24.40	24.45	24.49	24.53
83.5	20.52	20.55	20.57	20.59	20.62	20.64	20.69	20.74	20.78	20.83
84.0	17.01	17.02	17.02	17.03	17.04	17.04	17.09	17.14	17.19	17.24
84.5	13.59	13.58	13.58	13.57	13.57	13.57	13.61	13.66	13.71	13.75

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CANDELA TABULATION - (Cont.)

85.0	10.43	10.42	10.41	10.40	10.39	10.38	10.41	10.45	10.49	10.53
85.5	7.70	7.70	7.69	7.68	7.67	7.66	7.67	7.69	7.71	7.72
86.0	5.41	5.41	5.41	5.40	5.39	5.38	5.38	5.38	5.37	5.36
86.5	3.60	3.60	3.59	3.59	3.58	3.57	3.56	3.56	3.55	3.53
87.0	2.31	2.31	2.31	2.30	2.29	2.29	2.28	2.28	2.27	2.26
87.5	1.73	1.73	1.73	1.73	1.73	1.73	1.72	1.72	1.71	1.71
88.0	1.52	1.53	1.53	1.54	1.54	1.54	1.54	1.53	1.53	1.52
88.5	1.40	1.41	1.41	1.41	1.42	1.42	1.42	1.41	1.41	1.40
89.0	1.38	1.38	1.38	1.39	1.39	1.39	1.39	1.38	1.38	1.37
89.5	1.36	1.36	1.36	1.37	1.37	1.37	1.37	1.36	1.36	1.36
90.0	1.39	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38

**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	19826.88	19826.88	19826.88	19826.88	19826.88
0.5	19827.92	19827.93	19827.95	19827.96	19827.98
1.0	19829.88	19829.91	19829.95	19829.99	19830.03
1.5	19833.35	19833.41	19833.48	19833.55	19833.62
2.0	19836.53	19836.64	19836.75	19836.86	19836.96
2.5	19837.86	19838.04	19838.23	19838.42	19838.60
3.0	19837.21	19837.45	19837.70	19837.95	19838.20
3.5	19833.82	19834.06	19834.31	19834.57	19834.84
4.0	19828.04	19828.19	19828.37	19828.57	19828.79
4.5	19820.01	19819.94	19819.91	19819.92	19819.96
5.0	19809.54	19809.20	19808.91	19808.67	19808.48
5.5	19796.40	19795.76	19795.20	19794.70	19794.28
6.0	19780.84	19779.97	19779.18	19778.46	19777.85
6.5	19763.22	19762.27	19761.40	19760.61	19759.92
7.0	19743.11	19742.13	19741.23	19740.42	19739.70
7.5	19720.35	19719.29	19718.32	19717.46	19716.68
8.0	19694.47	19693.37	19692.38	19691.49	19690.71
8.5	19665.27	19664.27	19663.38	19662.60	19661.93
9.0	19631.78	19630.89	19630.11	19629.44	19628.86
9.5	19593.16	19592.27	19591.50	19590.81	19590.22
10.0	19548.79	19547.84	19547.01	19546.26	19545.60
10.5	19497.96	19496.91	19495.97	19495.13	19494.37
11.0	19440.05	19438.86	19437.79	19436.81	19435.94
11.5	19374.38	19373.06	19371.87	19370.78	19369.80
12.0	19300.29	19298.81	19297.46	19296.23	19295.11
12.5	19217.13	19215.40	19213.80	19212.32	19210.98
13.0	19124.14	19122.18	19120.35	19118.65	19117.09
13.5	19020.92	19018.88	19016.97	19015.17	19013.51
14.0	18905.83	18903.76	18901.80	18899.95	18898.20
14.5	18777.30	18775.19	18773.17	18771.24	18769.39
15.0	18634.73	18632.53	18630.41	18628.36	18626.38
15.5	18477.15	18474.73	18472.40	18470.14	18467.97
16.0	18304.04	18301.38	18298.80	18296.32	18293.95
16.5	18114.63	18111.80	18109.07	18106.42	18103.87
17.0	17908.70	17905.71	17902.80	17899.97	17897.25
17.5	17685.81	17682.55	17679.40	17676.36	17673.43
18.0	17445.87	17442.32	17438.91	17435.65	17432.54
18.5	17188.54	17184.70	17181.04	17177.57	17174.31
19.0	16914.07	16909.98	16906.13	16902.52	16899.18
19.5	16622.34	16618.20	16614.32	16610.72	16607.42
20.0	16314.01	16309.83	16305.96	16302.40	16299.17

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CANDELA TABULATION - (Cont.)

20.5	15989.65	15985.21	15981.14	15977.48	15974.23
21.0	15649.43	15644.83	15640.67	15636.99	15633.83
21.5	15293.33	15289.06	15285.28	15282.01	15279.30
22.0	14922.60	14918.65	14915.24	14912.37	14910.08
22.5	14537.83	14533.68	14530.11	14527.15	14524.83
23.0	14140.95	14136.55	14132.78	14129.68	14127.29
23.5	13734.28	13730.04	13726.44	13723.52	13721.32
24.0	13317.13	13313.14	13309.79	13307.11	13305.17
24.5	12889.42	12885.52	12882.26	12879.69	12877.87
25.0	12451.60	12447.91	12444.85	12442.47	12440.84
25.5	12003.25	12000.12	11997.61	11995.74	11994.58
26.0	11547.03	11544.60	11542.74	11541.47	11540.82
26.5	11084.94	11083.24	11082.03	11081.31	11081.11
27.0	10618.56	10617.46	10616.75	10616.46	10616.58
27.5	10149.46	10148.43	10147.78	10147.52	10147.66
28.0	9679.75	9678.75	9678.11	9677.86	9678.02
28.5	9210.90	9210.37	9210.15	9210.28	9210.75
29.0	8746.40	8746.36	8746.61	8747.14	8747.96
29.5	8289.81	8290.04	8290.53	8291.27	8292.27
30.0	7842.27	7842.66	7843.29	7844.13	7845.21
30.5	7405.90	7406.34	7406.97	7407.78	7408.79
31.0	6981.33	6981.84	6982.49	6983.29	6984.23
31.5	6569.16	6569.94	6570.84	6571.83	6572.93
32.0	6171.55	6172.67	6173.87	6175.14	6176.46
32.5	5790.68	5792.11	5793.62	5795.19	5796.79
33.0	5427.09	5428.77	5430.53	5432.33	5434.16
33.5	5081.95	5083.71	5085.51	5087.32	5089.13
34.0	4755.55	4757.33	4759.13	4760.91	4762.65
34.5	4447.94	4449.84	4451.74	4453.63	4455.48
35.0	4160.94	4162.91	4164.90	4166.88	4168.83
35.5	3899.69	3901.59	3903.49	3905.39	3907.27
36.0	3654.21	3656.03	3657.84	3659.65	3661.44
36.5	3412.21	3414.12	3416.01	3417.87	3419.66
37.0	3185.70	3187.73	3189.71	3191.63	3193.45
37.5	2985.48	2987.51	2989.50	2991.42	2993.23
38.0	2802.94	2804.95	2806.90	2808.79	2810.58
38.5	2632.82	2634.80	2636.72	2638.56	2640.29
39.0	2475.95	2477.83	2479.66	2481.40	2483.02
39.5	2331.86	2333.53	2335.13	2336.65	2338.07
40.0	2199.13	2200.53	2201.88	2203.15	2204.32
40.5	2076.32	2077.51	2078.63	2079.68	2080.61
41.0	1962.91	1963.91	1964.83	1965.65	1966.36
41.5	1858.03	1858.80	1859.49	1860.09	1860.57
42.0	1761.37	1761.99	1762.53	1762.97	1763.28
42.5	1673.15	1673.96	1674.65	1675.20	1675.58
43.0	1590.99	1591.79	1592.47	1592.99	1593.31
43.5	1512.04	1511.91	1511.72	1511.44	1511.09
44.0	1437.81	1436.77	1435.72	1434.68	1433.68
44.5	1369.00	1368.07	1367.09	1366.10	1365.12
45.0	1305.08	1304.44	1303.74	1302.98	1302.15
45.5	1245.99	1245.29	1244.52	1243.69	1242.80
46.0	1190.97	1190.12	1189.21	1188.25	1187.24
46.5	1139.33	1138.32	1137.27	1136.18	1135.06
47.0	1090.84	1089.68	1088.48	1087.27	1086.03
47.5	1045.14	1043.85	1042.53	1041.20	1039.86
48.0	1001.96	1000.58	999.17	997.75	996.33

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48.5	960.92	959.50	958.07	956.63	955.20
49.0	922.09	920.64	919.19	917.73	916.29
49.5	885.54	883.99	882.44	880.91	879.39
50.0	850.89	849.26	847.63	846.03	844.45
50.5	817.81	816.20	814.60	813.02	811.48
51.0	786.22	784.65	783.09	781.56	780.07
51.5	755.89	754.31	752.74	751.20	749.71
52.0	726.90	725.29	723.71	722.16	720.67
52.5	699.35	697.74	696.16	694.62	693.14
53.0	672.91	671.32	669.76	668.25	666.79
53.5	647.24	645.69	644.17	642.71	641.31
54.0	622.50	620.99	619.52	618.11	616.77
54.5	598.79	597.32	595.89	594.51	593.21
55.0	575.94	574.49	573.09	571.74	570.46
55.5	553.81	552.37	550.97	549.62	548.35
56.0	532.41	530.97	529.58	528.24	526.99
56.5	511.74	510.34	508.98	507.69	506.48
57.0	491.69	490.33	489.02	487.76	486.59
57.5	472.11	470.76	469.45	468.22	467.07
58.0	453.13	451.78	450.49	449.26	448.13
58.5	434.88	433.55	432.27	431.07	429.97
59.0	417.23	415.92	414.68	413.50	412.42
59.5	400.09	398.80	397.58	396.42	395.37
60.0	383.53	382.26	381.05	379.92	378.88
60.5	367.60	366.34	365.15	364.04	363.03
61.0	352.28	351.04	349.87	348.78	347.79
61.5	337.64	336.43	335.28	334.22	333.25
62.0	323.45	322.28	321.16	320.12	319.17
62.5	309.36	308.22	307.15	306.15	305.26
63.0	295.74	294.65	293.62	292.67	291.83
63.5	282.92	281.86	280.88	279.98	279.18
64.0	270.68	269.67	268.73	267.87	267.11
64.5	258.93	257.96	257.06	256.24	255.52
65.0	247.69	246.76	245.90	245.12	244.43
65.5	236.96	236.07	235.25	234.50	233.85
66.0	226.74	225.88	225.09	224.37	223.75
66.5	217.04	216.21	215.43	214.73	214.13
67.0	207.81	206.99	206.24	205.56	204.97
67.5	198.97	198.20	197.48	196.84	196.28
68.0	190.49	189.77	189.10	188.50	187.98
68.5	182.33	181.67	181.05	180.50	180.03
69.0	174.42	173.81	173.24	172.73	172.29
69.5	166.66	166.06	165.50	165.01	164.59
70.0	159.07	158.49	157.96	157.48	157.08
70.5	151.64	151.12	150.65	150.23	149.88
71.0	144.39	143.95	143.55	143.21	142.92
71.5	137.38	137.00	136.66	136.36	136.12
72.0	130.58	130.25	129.96	129.70	129.50
72.5	123.98	123.70	123.45	123.23	123.06
73.0	117.58	117.34	117.13	116.94	116.80
73.5	111.40	111.18	110.98	110.81	110.68
74.0	105.42	105.22	105.04	104.88	104.75
74.5	99.63	99.46	99.31	99.18	99.08
75.0	94.02	93.89	93.78	93.68	93.61
75.5	88.62	88.52	88.43	88.35	88.30
76.0	83.41	83.33	83.26	83.20	83.16

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CANDELA TABULATION - (Cont.)

76.5	78.41	78.35	78.29	78.25	78.22
77.0	73.58	73.53	73.49	73.46	73.43
77.5	68.88	68.86	68.84	68.82	68.81
78.0	64.33	64.32	64.32	64.31	64.32
78.5	59.92	59.92	59.92	59.92	59.93
79.0	55.66	55.66	55.66	55.65	55.65
79.5	51.53	51.53	51.53	51.52	51.51
80.0	47.52	47.51	47.50	47.49	47.48
80.5	43.57	43.57	43.56	43.56	43.55
81.0	39.70	39.70	39.70	39.70	39.70
81.5	35.89	35.90	35.90	35.90	35.90
82.0	32.12	32.13	32.14	32.14	32.14
82.5	28.32	28.34	28.35	28.36	28.37
83.0	24.56	24.59	24.61	24.63	24.64
83.5	20.87	20.91	20.94	20.96	20.98
84.0	17.28	17.33	17.37	17.40	17.42
84.5	13.80	13.85	13.89	13.92	13.95
85.0	10.57	10.61	10.65	10.68	10.70
85.5	7.74	7.75	7.75	7.76	7.76
86.0	5.35	5.33	5.31	5.29	5.26
86.5	3.52	3.50	3.48	3.46	3.44
87.0	2.25	2.24	2.23	2.22	2.20
87.5	1.70	1.69	1.69	1.68	1.67
88.0	1.52	1.51	1.51	1.50	1.49
88.5	1.40	1.39	1.39	1.38	1.38
89.0	1.37	1.36	1.36	1.36	1.35
89.5	1.35	1.35	1.35	1.35	1.34
90.0	1.38	1.38	1.38	1.38	1.38

IES INDOOR REPORT
PHOTOMETRIC FILENAME : NUVHTMOWT30MWD120-277V.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7055.65	40.70	40.70
0-30	12656.18	73.00	73.00
0-40	15380.27	88.70	88.70
0-60	16955.14	97.80	97.80
0-80	17314.65	99.90	99.90
0-90	17331.64	100.00	100.00
10-90	15447.53	89.10	89.10
20-40	8324.63	48.00	48.00
20-50	9372.82	54.10	54.10
40-70	1830.5	10.60	10.60
60-80	359.50	2.10	2.10
70-80	103.87	0.60	0.60
80-90	17.00	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	17331.64	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1884.12
10-20	5171.52
20-30	5600.54
30-40	2724.08
40-50	1048.19
50-60	526.69
60-70	255.63
70-80	103.87
80-90	17.00
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

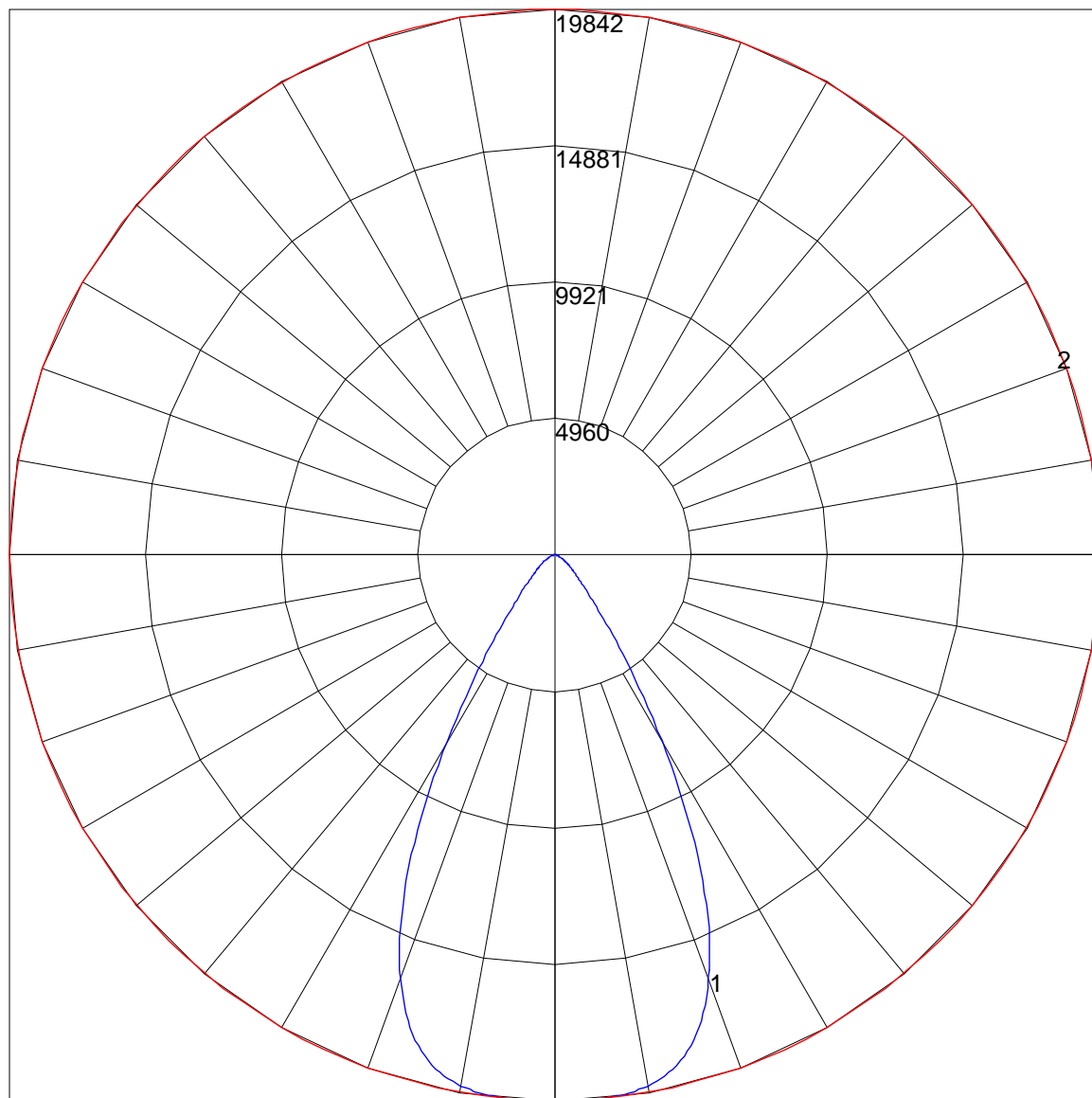
IES INDOOR REPORT
PHOTOMETRIC FILENAME : NUVHTMOWT30MWD120-277V.IES

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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51

POLAR GRAPH



Maximum Candela = 19841.85 Located At Horizontal Angle = 90, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)