

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS35XHTMO5K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1

[TESTLAB]

[TESTDATE] 21 August 2021

[ISSUEDATE] 2021-08-21 16:29:56

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMINAIRE] HZCAS35XHTMO5K

Note: Candela values converted from Type-B to Type-C

CHARACTERISTICS

Lumens Per Lamp	45178 (1 lamp)
Total Lamp Lumens	45178
Luminaire Lumens	44985
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	298.854
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	15982.31	15982.03	15981.89	15981.89	15982.02	15982.28	15982.69	15983.22	15983.90	15984.56
5.0	15911.29	15910.68	15910.34	15910.27	15910.48	15910.84	15911.28	15911.99	15912.98	15913.81
7.5	15840.27	15839.27	15838.68	15838.41	15838.27	15838.43	15838.67	15839.10	15839.40	15840.14
10.0	15769.25	15767.81	15766.91	15766.10	15765.63	15765.14	15764.19	15763.77	15762.27	15761.33
12.5	15698.23	15696.30	15694.91	15693.50	15692.15	15690.00	15687.45	15684.04	15680.69	15677.34
15.0	15627.21	15624.73	15622.60	15620.35	15617.25	15613.07	15607.25	15601.06	15595.09	15587.88
17.5	15266.30	15265.42	15268.05	15273.72	15281.87	15290.50	15302.03	15316.47	15330.99	15352.17
20.0	14905.38	14904.57	14907.05	14912.14	14919.12	14927.97	14939.42	14950.80	14969.12	14988.08
22.5	14544.47	14543.60	14545.30	14550.42	14556.46	14564.28	14574.42	14587.18	14602.46	14620.02
25.0	14183.55	14182.79	14184.21	14187.89	14192.99	14199.40	14208.30	14219.64	14232.66	14247.93
27.5	13822.64	13821.63	13822.16	13824.91	13828.54	13833.51	13841.14	13849.58	13859.47	13872.51
30.0	13461.73	13460.42	13460.05	13462.08	13463.54	13466.89	13471.88	13476.66	13483.55	13494.01
32.5	13031.52	13030.76	13032.31	13037.03	13041.33	13048.88	13058.36	13067.67	13081.65	13099.02
35.0	12601.31	12600.53	12602.08	12605.03	12608.57	12614.08	12619.32	12624.54	12637.35	12650.35
37.5	12171.10	12170.37	12171.78	12173.37	12175.61	12177.79	12180.05	12184.24	12191.13	12199.12
40.0	11740.88	11740.27	11741.05	11742.02	11741.61	11741.44	11740.06	11740.10	11742.47	11744.85
42.5	11310.67	11310.24	11310.34	11310.65	11307.48	11303.35	11299.93	11294.85	11291.85	11286.55
45.0	10880.46	10880.27	10879.66	10878.52	10873.06	10865.37	10857.07	10848.79	10838.80	10823.84
47.5	10130.11	10134.19	10144.29	10159.33	10176.91	10199.52	10225.39	10258.19	10290.50	10324.69
50.0	9379.75	9384.50	9395.10	9408.94	9425.65	9447.11	9468.49	9491.87	9505.54	9516.69
52.5	8629.40	8635.30	8645.67	8657.80	8673.04	8694.68	8710.31	8719.82	8708.00	8699.07
55.0	7879.05	7885.88	7896.64	7908.10	7923.73	7940.73	7949.54	7940.14	7900.84	7875.75
57.5	7128.69	7136.47	7147.19	7157.60	7172.95	7186.14	7186.53	7152.38	7085.96	7052.87
60.0	6378.34	6387.14	6397.72	6407.32	6422.65	6431.68	6420.00	6358.05	6266.92	6236.12
62.5	5552.19	5560.40	5572.77	5586.08	5601.42	5613.69	5606.03	5537.45	5449.67	5433.15
65.0	4726.03	4732.87	4745.03	4758.30	4766.24	4776.26	4769.46	4709.13	4644.45	4645.38
67.5	3899.88	3905.30	3917.44	3929.84	3930.33	3940.60	3937.38	3890.56	3850.80	3858.42
70.0	3073.72	3077.68	3089.97	3102.48	3094.31	3106.47	3108.55	3080.23	3062.00	3072.22
72.5	2247.57	2250.02	2262.60	2273.52	2258.21	2272.43	2282.80	2277.02	2277.60	2286.39
75.0	1421.42	1422.33	1435.31	1444.31	1422.06	1441.69	1461.38	1479.82	1496.90	1501.16
77.5	710.71	712.16	721.73	730.38	724.02	741.68	760.50	781.70	801.71	804.02
80.0	0.00	2.65	10.61	23.68	40.67	63.06	89.61	120.01	153.27	184.83
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	15985.56	15986.48	15987.53	15988.72	15990.03	15991.47	15993.02	15994.70	15996.50	15998.40
5.0	15915.41	15916.56	15917.99	15919.72	15921.72	15923.88	15925.99	15928.40	15931.10	15934.09
7.5	15840.74	15841.33	15842.42	15843.91	15844.96	15846.52	15848.60	15850.92	15852.96	15858.01
10.0	15760.35	15759.41	15758.85	15758.08	15757.67	15757.78	15757.71	15758.47	15759.82	15760.79
12.5	15673.78	15670.07	15666.52	15663.00	15660.00	15656.76	15654.53	15652.04	15650.65	15649.90
15.0	15580.68	15573.42	15565.86	15558.90	15551.52	15545.17	15539.06	15533.93	15527.61	15523.05
17.5	15374.26	15399.07	15427.00	15446.29	15432.78	15422.03	15410.00	15399.20	15389.30	15380.60
20.0	15009.89	15034.73	15063.36	15093.23	15126.83	15165.11	15205.62	15253.62	15237.67	15222.75
22.5	14640.55	14664.67	14690.61	14720.64	14753.66	14790.89	14832.45	14877.08	14928.50	14983.08
25.0	14266.69	14287.83	14312.54	14340.39	14372.74	14403.50	14449.56	14493.88	14542.80	14597.28
27.5	13888.15	13906.50	13928.04	13953.84	13983.68	14017.16	14053.86	14095.49	14142.41	14182.48
30.0	13505.61	13520.08	13538.80	13561.13	13585.74	13613.34	13645.75	13679.62	13716.97	13759.42

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CANDELA TABULATION - (Cont.)

32.5	13119.13	13129.95	13144.25	13159.74	13173.77	13198.63	13219.32	13243.71	13266.95	13282.14
35.0	12666.76	12686.86	12708.89	12730.15	12758.26	12765.95	12776.47	12772.01	12744.04	12729.06
37.5	12205.53	12221.74	12233.74	12245.73	12253.00	12270.33	12271.27	12229.08	12169.84	12125.21
40.0	11747.64	11748.13	11744.84	11727.16	11711.51	11686.57	11638.67	11590.38	11550.47	11495.53
42.5	11278.04	11264.97	11228.51	11179.06	11128.40	11062.97	11014.31	10958.03	10909.20	10884.14
45.0	10802.15	10764.02	10683.03	10602.90	10506.57	10442.94	10398.39	10350.80	10320.30	10326.11
47.5	10318.20	10219.68	10114.66	10003.97	9906.70	9858.36	9818.23	9784.69	9773.94	9771.07
50.0	9528.10	9490.46	9437.63	9390.15	9329.37	9303.16	9271.95	9246.25	9233.05	9224.00
52.5	8689.36	8651.84	8609.29	8583.28	8618.93	8679.56	8743.89	8712.82	8684.11	8659.85
55.0	7860.21	7832.21	7803.69	7802.20	7844.82	7888.81	7959.07	8026.41	8101.39	8086.76
57.5	7043.70	7023.46	7012.85	7030.05	7064.23	7115.91	7165.86	7217.71	7276.06	7337.83
60.0	6242.41	6246.87	6249.42	6266.85	6295.21	6332.60	6365.34	6406.46	6429.34	6467.94
62.5	5455.41	5478.37	5487.38	5499.46	5522.00	5545.90	5563.38	5579.86	5557.97	5605.74
65.0	4664.41	4691.55	4704.44	4724.79	4747.71	4754.91	4763.49	4724.78	4692.88	4744.04
67.5	3875.30	3904.13	3923.43	3942.64	3963.54	3973.20	3971.63	3873.83	3851.73	3908.16
70.0	3090.83	3121.03	3144.77	3166.31	3187.83	3208.22	3200.53	3125.12	3131.97	3155.83
72.5	2308.58	2342.46	2369.75	2394.42	2423.33	2456.97	2445.61	2413.54	2441.41	2467.15
75.0	1528.73	1567.55	1599.17	1625.13	1668.76	1716.29	1717.26	1731.81	1763.45	1792.11
77.5	828.79	856.76	874.56	878.67	923.43	982.22	1011.37	1048.58	1094.93	1133.84
80.0	222.66	262.83	300.40	331.56	378.79	420.20	447.05	474.55	498.73	517.33
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.88	67.02	112.72
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16000.03	16002.47	16004.62	16006.76	16009.00	16011.34	16013.78	16016.31	16018.93	16021.63
5.0	15937.37	15940.57	15944.38	15947.98	15951.86	15956.02	15960.44	15965.12	15970.04	15975.20
7.5	15858.66	15861.23	15866.07	15870.19	15874.88	15880.10	15885.86	15890.52	15898.64	15905.29
10.0	15762.62	15763.01	15768.23	15771.77	15777.41	15781.54	15787.56	15793.99	15801.30	15809.49
12.5	15649.79	15650.89	15652.02	15653.92	15657.21	15661.59	15666.53	15672.83	15680.48	15685.60
15.0	15518.95	15516.55	15515.35	15515.74	15515.86	15520.80	15525.18	15531.46	15539.26	15548.24
17.5	15372.94	15366.82	15361.78	15358.25	15356.82	15356.73	15359.02	15363.00	15368.55	15376.66
20.0	15209.88	15198.83	15188.89	15180.39	15174.05	15169.96	15168.78	15169.82	15174.15	15181.37
22.5	15032.46	15014.10	14998.06	14984.41	14970.95	14959.87	14951.61	14947.00	14946.26	14948.19
25.0	14657.18	14719.13	14784.04	14759.63	14737.04	14718.64	14702.45	14690.00	14684.23	14682.48
27.5	14243.94	14303.29	14368.36	14432.10	14475.55	14443.14	14408.15	14376.54	14352.57	14328.56
30.0	13802.05	13848.05	13900.10	13944.69	14009.11	14064.37	13989.30	13935.79	13884.97	13845.89
32.5	13296.89	13311.64	13344.64	13350.75	13389.69	13435.92	13506.84	13427.57	13365.73	13317.93
35.0	12713.20	12704.16	12696.67	12699.73	12741.43	12785.30	12843.60	12915.77	12861.37	12821.90
37.5	12082.76	12069.12	12048.27	12088.54	12130.05	12186.39	12263.91	12361.86	12447.69	12410.69
40.0	11464.51	11465.01	11490.02	11526.59	11580.17	11651.03	11734.05	11830.74	11943.22	11993.51
42.5	10900.15	10930.19	10957.17	10997.20	11047.61	11109.44	11186.35	11277.83	11386.13	11512.80
45.0	10351.57	10385.63	10430.74	10457.37	10496.37	10548.64	10617.16	10700.49	10803.07	10925.38
47.5	9799.79	9816.22	9848.63	9894.16	9928.91	9967.93	10010.17	10084.48	10188.86	10302.92
50.0	9214.07	9230.06	9248.48	9280.90	9324.22	9364.62	9401.04	9466.58	9545.86	9634.99
52.5	8641.53	8632.37	8633.46	8643.38	8671.55	8721.90	8762.99	8807.72	8869.55	8956.64
55.0	8050.64	8021.93	7997.47	7986.72	7998.38	8022.62	8056.16	8109.05	8148.02	8215.49
57.5	7424.65	7394.16	7343.57	7315.70	7269.05	7251.32	7270.35	7351.24	7385.55	7377.47
60.0	6545.24	6617.91	6682.28	6583.86	6481.02	6441.58	6488.54	6503.10	6464.82	6460.31
62.5	5672.45	5739.31	5784.47	5739.90	5673.26	5686.30	5675.98	5628.97	5621.33	5679.96
65.0	4812.41	4865.12	4841.77	4813.72	4867.27	4939.80	4913.10	4874.73	4875.22	4905.77
67.5	3973.21	3992.39	3971.70	3974.31	4031.43	4116.37	4175.18	4149.20	4087.60	4091.19

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CANDELA TABULATION - (Cont.)

70.0	3151.03	3151.19	3140.85	3159.23	3226.66	3293.11	3333.71	3322.15	3294.57	3304.85
72.5	2455.44	2443.74	2384.45	2374.42	2448.59	2491.73	2504.83	2512.31	2549.26	2573.73
75.0	1802.49	1793.43	1771.21	1772.53	1774.41	1709.47	1754.47	1788.15	1832.15	1843.77
77.5	1165.93	1180.35	1197.46	1219.31	1221.14	1192.26	1172.61	1117.56	1169.61	1198.46
80.0	547.57	600.52	647.80	690.03	713.96	727.82	725.70	711.16	675.76	643.09
82.5	151.94	188.62	216.82	237.98	254.48	297.45	331.41	355.69	362.30	349.65
85.0	0.00	0.00	0.00	0.00	0.00	31.52	59.62	80.87	96.62	120.58
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16024.41	16027.25	16030.17	16033.14	16036.17	16039.24	16042.36	16040.58	16038.85	16037.16
5.0	15980.58	15986.17	15990.93	15997.35	16003.81	16010.29	16016.79	16013.17	16009.55	16005.95
7.5	15912.47	15920.15	15928.33	15936.97	15946.06	15955.58	15965.51	15960.08	15955.04	15950.41
10.0	15818.52	15828.37	15839.03	15847.52	15861.32	15875.18	15889.06	15881.45	15873.85	15866.28
12.5	15699.75	15711.40	15724.33	15738.51	15753.87	15770.36	15787.92	15778.74	15770.60	15763.52
15.0	15559.17	15572.00	15586.71	15603.23	15618.33	15640.75	15663.22	15651.35	15639.51	15634.85
17.5	15387.34	15400.30	15415.45	15433.20	15453.50	15476.31	15501.58	15488.97	15478.78	15471.00
20.0	15189.65	15201.54	15216.98	15235.94	15251.86	15282.58	15313.37	15297.58	15281.83	15280.64
22.5	14954.72	14960.09	14980.74	15000.10	15024.16	15052.85	15086.06	15070.76	15059.88	15053.44
25.0	14684.97	14690.66	14703.70	14723.82	14750.70	14781.12	14823.33	14803.74	14795.51	14790.17
27.5	14312.27	14307.00	14311.58	14323.57	14347.09	14381.89	14427.65	14411.24	14405.46	14410.29
30.0	13819.50	13804.53	13802.48	13814.14	13839.36	13871.53	13929.68	13905.66	13907.23	13915.12
32.5	13285.93	13268.18	13252.79	13276.16	13302.39	13342.17	13395.83	13377.11	13372.53	13382.01
35.0	12799.83	12787.77	12791.27	12806.57	12833.99	12867.48	12926.39	12900.38	12899.69	12904.85
37.5	12386.73	12374.60	12376.44	12391.88	12421.06	12464.51	12522.13	12500.74	12493.40	12500.09
40.0	11960.16	11941.17	11937.20	11949.24	11977.87	12014.96	12084.90	12054.79	12057.32	12067.92
42.5	11506.43	11479.89	11470.70	11479.79	11506.20	11552.54	11618.68	11596.20	11593.32	11609.92
45.0	11024.39	10984.11	10965.24	10968.33	10994.35	11032.14	11114.62	11080.48	11090.60	11112.62
47.5	10439.58	10454.18	10423.95	10411.71	10438.53	10485.17	10558.98	10537.72	10543.25	10567.86
50.0	9777.79	9891.40	9842.46	9833.00	9846.29	9874.03	9963.82	9929.91	9958.60	10002.25
52.5	9081.24	9223.95	9215.93	9184.28	9189.73	9234.57	9320.59	9307.73	9334.90	9397.34
55.0	8301.57	8416.04	8505.20	8463.93	8463.35	8482.50	8591.64	8557.56	8615.22	8694.45
57.5	7430.18	7550.64	7705.13	7635.69	7617.53	7660.04	7769.71	7765.69	7829.14	7943.17
60.0	6531.17	6600.33	6702.48	6730.33	6710.56	6697.38	6798.86	6769.74	6870.61	6997.61
62.5	5701.82	5796.52	5914.87	6025.54	5982.43	5995.91	6071.61	6074.48	6139.82	6263.30
65.0	4970.53	5006.74	5097.29	5224.83	5205.62	5214.38	5298.20	5303.80	5383.09	5492.38
67.5	4147.70	4153.38	4203.79	4336.94	4366.89	4350.50	4432.88	4461.95	4578.09	4638.23
70.0	3291.96	3281.86	3334.71	3394.39	3463.60	3439.68	3497.06	3525.34	3653.93	3696.88
72.5	2524.51	2540.43	2566.91	2611.80	2740.08	2689.24	2731.53	2776.30	2904.96	2892.73
75.0	1820.87	1833.33	1828.44	1852.87	1904.78	1915.86	1935.26	1993.32	2077.93	2108.97
77.5	1212.08	1200.72	1200.87	1197.97	1215.13	1233.22	1247.50	1303.13	1356.62	1409.98
80.0	685.02	707.02	692.31	680.27	679.71	703.80	696.20	765.25	761.52	786.27
82.5	332.88	319.50	330.33	318.06	318.73	310.81	326.72	314.79	272.71	283.08
85.0	141.56	140.88	121.38	115.62	104.46	107.10	102.67	47.45	44.43	78.25
87.5	0.00	17.51	42.68	49.74	48.47	48.88	24.07	18.64	19.84	28.11
90.0	0.00	0.00	0.00	0.00	0.00	0.00	15.79	0.00	0.00	0.00

**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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16035.51	16033.91	16032.36	16030.87	16029.44	16028.07	16026.76	16025.51	16024.34	16023.23

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CANDELA TABULATION - (Cont.)

5.0	16002.37	16000.37	15997.54	15994.86	15992.36	15990.02	15987.87	15985.89	15984.10	15982.49
7.5	15946.18	15942.38	15938.99	15936.04	15933.53	15929.51	15928.79	15926.90	15925.43	15924.38
10.0	15863.95	15859.41	15855.59	15852.50	15850.15	15848.55	15847.69	15847.01	15846.78	15847.23
12.5	15757.55	15752.71	15749.02	15742.75	15745.11	15744.83	15745.65	15747.56	15749.54	15752.19
15.0	15628.65	15624.11	15621.22	15619.98	15620.39	15621.80	15624.50	15628.78	15632.24	15639.84
17.5	15465.64	15462.69	15461.75	15462.85	15466.24	15471.89	15479.02	15487.77	15498.65	15509.40
20.0	15276.25	15275.09	15277.15	15282.40	15288.86	15298.03	15310.22	15323.60	15339.23	15356.65
22.5	15051.41	15047.83	15059.08	15068.81	15082.64	15098.12	15115.33	15137.90	15161.45	15187.24
25.0	14790.58	14796.74	14808.61	14824.11	14843.92	14867.00	14895.51	14926.80	14960.19	14996.59
27.5	14425.69	14446.98	14476.31	14514.60	14554.64	14599.06	14643.87	14687.82	14733.49	14721.54
30.0	13935.62	13968.56	14014.02	14072.48	14143.47	14217.46	14291.53	14379.16	14364.12	14338.64
32.5	13394.74	13446.95	13501.91	13571.08	13655.04	13749.11	13844.03	13841.62	13849.95	13855.22
35.0	12921.82	12950.16	13002.52	13070.75	13154.68	13252.99	13244.08	13250.01	13268.81	13284.64
37.5	12520.05	12552.95	12599.06	12655.66	12724.30	12696.22	12675.13	12672.98	12685.61	12720.30
40.0	12094.52	12136.29	12191.85	12260.92	12265.40	12220.80	12188.62	12166.96	12161.28	12180.64
42.5	11643.25	11694.08	11760.90	11813.24	11761.57	11725.89	11704.06	11694.08	11695.80	11703.60
45.0	11156.74	11220.06	11301.54	11276.68	11235.67	11210.41	11199.87	11203.97	11219.12	11243.74
47.5	10631.55	10712.61	10758.76	10709.89	10680.20	10656.35	10664.26	10696.52	10727.17	10751.97
50.0	10069.36	10171.25	10145.49	10095.56	10098.39	10106.41	10121.55	10167.18	10184.88	10160.81
52.5	9485.90	9551.33	9500.09	9485.04	9490.84	9515.81	9558.02	9576.70	9554.90	9552.84
55.0	8815.70	8826.40	8800.55	8802.36	8840.50	8908.35	8913.18	8902.84	8911.38	8927.58
57.5	8086.70	8025.25	8026.73	8069.27	8131.95	8183.15	8195.18	8202.71	8213.19	8287.32
60.0	7098.94	7107.38	7147.17	7240.55	7360.69	7349.19	7384.21	7470.58	7530.43	7592.77
62.5	6256.68	6244.22	6287.43	6363.35	6423.60	6513.22	6548.63	6651.90	6815.20	6861.36
65.0	5474.40	5501.35	5567.16	5588.30	5613.65	5680.84	5771.15	5824.85	5925.25	5997.28
67.5	4641.44	4716.92	4777.80	4802.94	4860.32	4957.26	5020.94	5010.67	5025.26	5124.04
70.0	3740.65	3839.59	3906.37	3969.10	4107.79	4170.02	4173.91	4184.18	4221.32	4285.04
72.5	2927.19	2992.84	3078.63	3159.95	3240.74	3328.18	3339.26	3353.45	3437.70	3501.78
75.0	2185.42	2249.98	2343.05	2414.10	2429.53	2514.15	2554.55	2552.52	2660.25	2770.10
77.5	1472.88	1576.01	1624.95	1685.85	1727.18	1751.39	1871.66	1921.97	1980.49	2072.00
80.0	866.26	940.93	997.39	1024.70	1122.25	1200.11	1277.15	1320.85	1361.07	1407.00
82.5	375.29	433.48	524.19	602.10	659.57	703.59	736.32	749.47	762.96	710.63
85.0	119.81	179.05	227.05	257.39	255.52	225.69	172.77	91.38	0.00	0.00
87.5	36.74	20.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.
Angles**

Horizontal Angles

	125.0	127.5	130.0	132.5	135.0	137.5	140.0	142.5	145.0	147.5
0.0	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16022.20	16021.12	16019.73	16019.10	16018.16	16017.29	16016.49	16015.76	16015.11	16014.54
5.0	15981.08	15979.40	15978.15	15976.76	15975.54	15974.49	15973.63	15972.95	15972.26	15971.68
7.5	15923.75	15922.32	15922.91	15922.83	15923.14	15923.83	15923.84	15923.81	15924.09	15924.67
10.0	15848.35	15847.70	15851.31	15853.36	15856.00	15858.23	15860.85	15864.04	15866.79	15869.81
12.5	15755.85	15760.16	15764.73	15770.24	15775.81	15781.42	15787.76	15792.92	15799.54	15805.52
15.0	15646.84	15654.96	15663.74	15673.74	15682.95	15693.31	15703.50	15714.53	15724.51	15734.93
17.5	15521.30	15534.40	15548.45	15563.38	15578.56	15594.22	15610.02	15625.39	15638.85	15656.68
20.0	15375.79	15396.38	15418.30	15439.47	15460.88	15481.37	15457.06	15435.56	15414.82	15396.69
22.5	15214.18	15242.05	15269.07	15247.05	15219.80	15195.19	15172.27	15152.28	15135.28	15120.38
25.0	15032.09	14999.48	14969.19	14942.06	14916.85	14895.17	14876.98	14856.62	14846.79	14835.77
27.5	14694.23	14664.96	14639.96	14610.32	14600.15	14584.60	14570.80	14559.65	14550.91	14543.46
30.0	14323.41	14304.58	14288.30	14275.27	14265.70	14258.09	14253.48	14249.64	14247.00	14245.74
32.5	13879.20	13892.30	13903.83	13910.61	13913.18	13917.00	13922.02	13929.15	13932.17	13941.84
35.0	13345.17	13396.32	13448.79	13494.86	13528.59	13559.58	13577.00	13595.28	13614.11	13596.73
37.5	12754.44	12840.30	12921.54	13008.15	13090.47	13165.94	13191.83	13175.55	13164.16	13153.10
40.0	12217.11	12281.65	12368.54	12475.92	12554.52	12604.94	12646.92	12675.36	12687.56	12695.38

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CANDELA TABULATION - (Cont.)

42.5	11726.90	11765.73	11813.09	11851.14	11911.08	11980.08	12054.42	12124.16	12181.14	12221.92
45.0	11275.06	11253.36	11240.96	11257.57	11297.00	11359.17	11441.17	11536.87	11624.06	11718.52
47.5	10725.66	10711.14	10702.48	10698.68	10735.28	10776.49	10838.71	10937.38	11057.34	11182.71
50.0	10152.22	10153.85	10155.33	10178.18	10203.80	10238.94	10278.02	10346.87	10470.18	10605.42
52.5	9561.08	9583.27	9606.44	9646.36	9682.75	9726.23	9753.44	9727.67	9758.76	9831.54
55.0	8957.69	8997.67	9049.75	9106.77	9137.88	9096.50	9064.71	9023.01	9029.21	9082.42
57.5	8343.99	8404.46	8455.35	8424.65	8398.45	8370.59	8351.91	8337.35	8321.01	8351.49
60.0	7716.83	7692.29	7664.59	7650.94	7650.46	7641.83	7634.98	7638.47	7641.50	7656.08
62.5	6848.43	6851.60	6867.99	6871.04	6892.64	6911.97	6917.30	6932.35	6953.42	6970.99
65.0	5976.81	5981.43	6035.87	6083.55	6126.30	6174.71	6199.87	6225.42	6252.38	6263.71
67.5	5152.85	5151.56	5188.80	5296.75	5359.46	5419.83	5449.14	5457.58	5479.24	5508.71
70.0	4340.27	4347.43	4352.60	4485.95	4578.82	4631.54	4674.83	4685.53	4706.07	4752.62
72.5	3566.32	3597.54	3611.54	3684.62	3803.05	3855.90	3906.08	3921.05	3936.90	3995.20
75.0	2826.87	2880.36	2903.97	2933.97	3034.31	3094.16	3144.26	3163.71	3176.30	3236.76
77.5	2123.66	2170.72	2201.35	2215.35	2273.38	2344.68	2390.87	2411.64	2420.83	2407.96
80.0	1443.17	1475.96	1509.67	1471.62	1390.72	1337.30	1247.01	1137.56	1017.50	910.56
82.5	639.60	550.20	448.96	321.56	187.17	47.60	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16014.05	16013.63	16013.30	16012.84	16012.62	16012.36	16012.17	16012.06	16012.02	16012.07
5.0	15971.28	15971.05	15971.00	15970.43	15970.55	15970.40	15970.42	15970.61	15969.47	15970.10
7.5	15924.60	15924.74	15925.15	15925.64	15926.16	15926.94	15927.47	15928.14	15928.73	15929.44
10.0	15872.95	15874.79	15876.77	15878.49	15879.88	15881.57	15883.12	15884.95	15886.31	15886.15
12.5	15811.83	15817.82	15823.62	15828.29	15831.75	15834.85	15837.63	15840.37	15843.22	15845.33
15.0	15744.20	15753.80	15763.35	15772.41	15781.04	15786.35	15791.18	15795.22	15799.12	15802.63
17.5	15648.55	15632.79	15618.52	15606.58	15595.15	15588.24	15578.98	15570.92	15564.60	15560.18
20.0	15381.06	15367.99	15355.79	15344.90	15335.98	15327.63	15323.28	15316.36	15310.68	15306.73
22.5	15107.33	15095.60	15086.81	15079.44	15072.69	15067.54	15064.00	15059.99	15056.18	15053.20
25.0	14826.14	14818.59	14812.39	14808.84	14806.42	14803.79	14803.04	14801.74	14800.33	14799.05
27.5	14538.85	14535.66	14534.29	14533.80	14536.23	14538.13	14539.78	14542.40	14543.04	14544.18
30.0	14245.57	14248.07	14251.21	14256.59	14261.52	14269.24	14275.22	14281.58	14284.69	14288.98
32.5	13948.15	13955.19	13965.38	13948.15	13935.42	13926.09	13919.49	13912.50	13907.30	13904.13
35.0	13579.17	13560.34	13544.96	13533.09	13523.60	13514.00	13513.17	13509.67	13507.73	13505.85
37.5	13141.52	13131.55	13117.65	13114.88	13110.07	13106.50	13106.42	13106.13	13107.36	13107.45
40.0	12695.53	12696.03	12695.68	12694.67	12694.38	12695.77	12697.86	12702.40	12705.34	12708.92
42.5	12242.22	12253.54	12264.02	12271.55	12277.25	12283.67	12289.47	12297.01	12303.39	12310.12
45.0	11778.90	11804.82	11827.24	11845.73	11859.63	11870.48	11880.52	11891.68	11901.37	11910.68
47.5	11291.06	11345.56	11385.57	11393.13	11369.64	11344.97	11325.12	11308.56	11296.42	11288.80
50.0	10684.55	10722.21	10716.03	10715.50	10704.38	10687.36	10672.10	10657.87	10648.44	10642.67
52.5	9907.88	9971.63	10002.23	10025.70	10035.04	10028.44	10019.09	10007.51	9998.50	9995.56
55.0	9146.15	9212.87	9274.27	9325.24	9361.48	9367.20	9364.64	9357.00	9351.95	9350.21
57.5	8400.53	8448.87	8533.28	8612.88	8683.16	8704.30	8709.40	8706.55	8703.41	8703.81
60.0	7688.62	7720.46	7786.40	7891.99	7996.85	8039.99	8052.54	8056.37	8055.03	8057.53
62.5	6989.42	7001.33	7040.21	7152.47	7265.25	7312.40	7323.87	7328.72	7324.32	7321.74
65.0	6262.94	6268.87	6290.55	6379.25	6482.13	6534.39	6553.48	6574.48	6578.78	6577.89
67.5	5522.19	5526.48	5547.37	5617.77	5704.33	5757.59	5781.41	5818.37	5832.75	5833.32
70.0	4777.28	4802.34	4818.07	4867.77	4935.99	4982.38	5008.17	5060.71	5086.57	5090.77
72.5	4031.23	4070.31	4089.89	4127.46	4175.85	4210.27	4234.77	4297.91	4340.26	4347.26
75.0	3289.18	3336.79	3363.81	3394.08	3422.02	3440.83	3461.25	3541.44	3593.90	3603.94
77.5	2363.92	2301.38	2222.95	2143.09	2067.75	1995.40	1933.79	1917.33	1895.04	1857.84

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CANDELA TABULATION - (Cont.)

80.0	813.62	705.87	597.36	493.02	395.52	306.55	227.74	162.86	106.51	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16012.19	16012.39	16012.68	16012.82	16013.04	16013.33	16013.71	16014.16	16014.68	16015.28
5.0	15970.74	15971.38	15972.02	15972.12	15972.23	15972.33	15972.44	15974.44	15974.30	15974.59
7.5	15929.90	15930.52	15931.37	15931.48	15931.83	15932.41	15932.14	15932.01	15932.13	15931.93
10.0	15888.13	15889.42	15890.71	15890.51	15890.30	15889.07	15889.86	15889.29	15888.50	15888.04
12.5	15847.38	15848.63	15850.05	15849.73	15849.87	15848.25	15847.11	15845.73	15843.85	15841.08
15.0	15804.72	15807.46	15809.39	15808.48	15806.69	15805.89	15803.85	15801.23	15797.20	15793.14
17.5	15557.50	15556.67	15557.69	15558.19	15560.23	15564.29	15570.81	15577.36	15586.30	15596.67
20.0	15297.57	15302.62	15305.98	15304.75	15301.08	15312.02	15317.41	15324.07	15334.03	15339.32
22.5	15051.08	15051.82	15054.27	15054.82	15055.93	15059.48	15063.85	15069.56	15074.16	15079.85
25.0	14789.87	14797.31	14802.56	14801.10	14794.97	14806.14	14809.44	14812.67	14814.68	14818.11
27.5	14544.73	14546.67	14550.85	14550.77	14550.58	14552.22	14553.94	14553.63	14554.28	14553.55
30.0	14281.57	14291.49	14299.14	14296.20	14288.10	14298.23	14297.89	14293.89	14290.88	14285.55
32.5	13900.82	13899.98	13904.19	13904.70	13907.63	13914.37	13919.79	13926.90	13935.24	13943.47
35.0	13505.06	13500.69	13509.23	13505.45	13512.17	13516.41	13519.99	13524.97	13528.95	13534.16
37.5	13109.05	13109.48	13114.28	13114.32	13116.94	13118.62	13121.46	13121.01	13124.54	13123.24
40.0	12712.41	12709.98	12719.32	12714.92	12720.20	12720.68	12718.84	12716.91	12713.48	12711.52
42.5	12315.72	12318.95	12324.37	12324.03	12323.78	12323.47	12317.33	12311.29	12307.10	12297.50
45.0	11918.97	11919.36	11929.41	11924.61	11927.21	11923.08	11916.65	11905.68	11894.80	11881.83
47.5	11284.74	11281.18	11283.84	11286.21	11291.88	11299.74	11308.41	11320.62	11336.79	11353.48
50.0	10639.86	10628.65	10638.26	10633.83	10645.70	10651.85	10658.23	10666.94	10678.58	10691.92
52.5	9994.81	9990.94	9992.69	9995.30	9999.56	10003.87	10008.07	10013.14	10020.67	10030.47
55.0	9350.14	9339.37	9347.11	9343.39	9354.32	9355.43	9357.30	9358.65	9362.73	9369.33
57.5	8705.10	8700.97	8701.53	8704.06	8706.77	8706.93	8706.25	8703.67	8705.36	8708.15
60.0	8035.88	8049.93	8055.96	8052.34	8036.02	8058.53	8055.21	8048.51	8048.78	8051.25
62.5	7320.44	7314.52	7312.95	7315.75	7319.48	7320.89	7323.03	7321.68	7316.89	7317.41
65.0	6552.20	6565.90	6569.93	6565.92	6549.97	6575.13	6577.90	6564.53	6543.32	6533.74
67.5	5833.67	5829.72	5826.92	5828.51	5830.19	5829.53	5829.64	5807.28	5766.66	5749.47
70.0	5069.55	5082.14	5083.90	5079.68	5064.69	5084.64	5082.98	5047.92	4991.27	4966.33
72.5	4347.15	4344.98	4340.89	4341.27	4340.92	4338.75	4336.52	4286.87	4209.41	4187.85
75.0	3587.76	3598.58	3597.87	3593.58	3580.07	3593.67	3590.27	3528.52	3430.34	3413.32
77.5	1826.90	1807.58	1798.94	1805.02	1822.96	1852.51	1893.23	1906.92	1915.19	1979.10
80.0	0.00	0.00	0.00	0.00	0.00	0.00	106.42	161.93	225.56	303.87
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. 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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16015.96	16016.71	16017.47	16017.79	16018.35	16018.99	16019.71	16020.50	16021.36	16022.29
5.0	15975.04	15975.66	15976.15	15976.59	15977.19	15977.95	15978.87	15980.21	15980.52	15981.40
7.5	15931.83	15931.99	15931.80	15931.40	15931.29	15931.65	15931.47	15931.81	15932.45	15934.02
10.0	15886.33	15884.95	15883.67	15882.50	15881.73	15878.97	15876.57	15875.87	15872.30	15870.65
12.5	15838.45	15835.94	15832.15	15827.18	15822.25	15817.27	15812.36	15806.23	15801.70	15795.64

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CANDELA TABULATION - (Cont.)

15.0	15790.34	15781.25	15773.52	15765.64	15756.63	15747.87	15737.51	15730.08	15717.89	15711.25
17.5	15606.42	15617.73	15630.74	15645.43	15660.53	15669.13	15655.07	15639.07	15623.49	15607.88
20.0	15348.06	15357.80	15368.66	15383.98	15395.37	15410.71	15428.27	15449.32	15469.00	15492.62
22.5	15086.29	15093.13	15101.20	15111.02	15123.36	15134.98	15148.74	15164.91	15184.00	15206.10
25.0	14820.84	14824.19	14828.71	14834.45	14841.90	14849.98	14862.02	14873.16	14887.93	14906.24
27.5	14555.25	14551.16	14551.28	14552.64	14554.26	14557.74	14562.97	14570.51	14581.86	14596.15
30.0	14279.69	14275.70	14269.86	14264.76	14260.94	14257.89	14257.71	14261.27	14267.28	14276.86
32.5	13953.80	13967.95	13983.40	13972.12	13960.83	13952.32	13948.05	13951.89	13945.91	13947.27
35.0	13541.30	13550.16	13561.91	13572.71	13589.00	13613.02	13632.43	13623.31	13611.39	13595.90
37.5	13127.52	13128.69	13133.62	13139.63	13153.10	13176.77	13190.08	13207.52	13232.06	13181.68
40.0	12708.27	12704.16	12702.00	12705.05	12710.87	12717.80	12708.94	12699.65	12650.23	12589.38
42.5	12287.41	12277.97	12269.66	12265.97	12262.61	12234.61	12186.27	12115.35	12027.96	11949.24
45.0	11864.26	11847.87	11835.21	11825.30	11789.26	11714.33	11615.78	11503.46	11409.51	11327.40
47.5	11371.25	11395.24	11397.03	11372.08	11283.56	11154.66	11021.24	10891.64	10804.50	10751.69
50.0	10706.48	10722.62	10725.85	10721.16	10657.02	10560.89	10421.17	10304.45	10253.21	10214.85
52.5	10039.03	10028.10	10005.93	9956.25	9875.61	9786.28	9721.71	9703.35	9728.15	9694.83
55.0	9366.30	9322.68	9266.84	9190.90	9118.20	9040.26	8999.15	9011.33	9037.28	9065.74
57.5	8684.97	8602.01	8513.41	8436.76	8383.02	8327.88	8310.86	8320.65	8333.29	8348.37
60.0	7993.46	7871.74	7761.93	7706.36	7669.12	7635.92	7627.48	7625.96	7626.15	7629.77
62.5	7254.85	7124.37	7016.89	6995.59	6977.16	6958.49	6944.59	6931.80	6919.57	6910.47
65.0	6471.18	6352.12	6274.66	6265.16	6258.67	6254.97	6250.25	6237.71	6213.82	6186.52
67.5	5683.01	5592.82	5539.76	5522.32	5516.89	5499.97	5475.06	5467.20	5461.35	5446.02
70.0	4911.92	4850.47	4812.12	4797.36	4776.92	4740.83	4699.53	4686.80	4673.52	4650.97
72.5	4152.64	4109.08	4086.24	4066.24	4031.82	3977.40	3926.09	3911.48	3892.36	3864.53
75.0	3397.84	3379.30	3365.75	3336.18	3292.24	3212.46	3158.78	3142.67	3120.59	3088.47
77.5	2052.66	2135.92	2221.30	2303.62	2364.90	2379.22	2398.48	2375.03	2357.49	2321.67
80.0	392.73	491.21	596.87	707.65	812.43	900.72	1005.90	1116.47	1225.95	1312.37
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.71
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16023.30	16024.37	16025.50	16026.70	16028.11	16028.96	16030.17	16031.44	16032.77	16034.16
5.0	15982.45	15983.69	15985.10	15986.69	15989.30	15990.04	15991.95	15994.04	15996.29	15998.70
7.5	15932.72	15932.81	15933.26	15934.07	15934.97	15936.15	15937.72	15939.68	15942.01	15944.72
10.0	15870.60	15867.18	15865.69	15864.81	15863.75	15863.01	15862.96	15863.59	15866.48	15865.91
12.5	15790.42	15785.41	15780.59	15776.67	15772.47	15768.67	15765.90	15766.81	15762.89	15762.88
15.0	15697.90	15688.48	15679.07	15671.02	15662.86	15655.27	15649.18	15644.30	15641.00	15639.34
17.5	15592.14	15576.41	15561.65	15548.35	15535.54	15523.57	15518.76	15503.31	15495.58	15489.37
20.0	15472.55	15450.29	15429.30	15408.87	15389.46	15371.30	15354.44	15339.05	15330.33	15314.69
22.5	15230.36	15258.21	15283.75	15253.19	15225.86	15200.22	15176.80	15156.25	15136.67	15122.44
25.0	14927.83	14952.69	14980.91	15013.41	15048.34	15016.86	14983.79	14955.13	14926.00	14902.60
27.5	14617.78	14635.32	14661.43	14689.04	14720.31	14757.73	14765.26	14720.97	14672.21	14621.26
30.0	14290.23	14303.30	14318.66	14335.01	14351.42	14366.26	14372.30	14378.74	14295.34	14203.96
32.5	13946.11	13941.47	13926.58	13904.07	13874.49	13853.26	13827.56	13814.07	13815.28	13716.29
35.0	13559.00	13510.82	13450.82	13393.23	13323.44	13268.09	13236.07	13215.33	13211.30	13225.48
37.5	13088.57	12990.08	12896.73	12807.73	12742.02	12691.80	12667.56	12661.47	12673.21	12705.12
40.0	12536.42	12447.00	12338.04	12258.35	12207.35	12183.90	12175.71	12186.86	12210.24	12244.05
42.5	11879.41	11825.68	11798.69	11774.80	11748.27	11730.53	11724.60	11724.64	11734.22	11757.14
45.0	11272.81	11243.13	11250.01	11276.68	11309.53	11279.15	11253.56	11239.28	11237.54	11248.43
47.5	10715.72	10706.17	10710.21	10728.89	10753.56	10788.00	10766.45	10735.97	10718.27	10714.06
50.0	10186.82	10168.77	10163.01	10163.08	10172.56	10191.61	10224.46	10215.15	10181.90	10174.12

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CANDELA TABULATION - (Cont.)

52.5	9656.04	9625.45	9596.48	9588.45	9577.86	9583.21	9598.59	9633.97	9639.60	9590.07
55.0	9100.53	9076.71	9036.04	8999.80	8977.16	8959.21	8955.54	8970.01	8999.74	8978.04
57.5	8372.20	8403.46	8442.36	8412.07	8361.38	8316.06	8282.40	8258.05	8253.67	8269.96
60.0	7638.34	7649.97	7669.68	7698.81	7725.31	7646.38	7569.22	7501.47	7432.72	7423.36
62.5	6901.11	6885.42	6873.51	6853.99	6870.01	6886.97	6816.31	6658.75	6584.09	6559.57
65.0	6153.60	6111.45	6039.76	5997.57	6002.47	5996.48	5905.48	5824.20	5775.65	5707.09
67.5	5397.27	5307.42	5194.41	5157.24	5154.19	5105.51	5021.77	5009.42	5015.65	4960.46
70.0	4595.95	4477.13	4361.43	4337.80	4330.10	4274.57	4222.33	4174.72	4177.37	4176.49
72.5	3794.83	3676.26	3612.74	3586.18	3550.56	3502.54	3426.68	3368.91	3362.15	3346.76
75.0	3017.09	2927.65	2890.37	2864.76	2815.24	2772.53	2650.80	2601.74	2601.61	2523.72
77.5	2249.41	2210.46	2184.56	2144.39	2117.11	2064.79	1980.79	1944.21	1887.33	1777.98
80.0	1376.31	1459.75	1491.91	1450.67	1436.09	1391.32	1348.15	1321.03	1273.10	1221.49
82.5	185.58	318.97	441.07	542.35	634.73	691.13	730.21	733.06	720.65	710.52
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.60	167.52	223.66
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16035.61	16037.11	16038.66	16040.26	16041.90	16043.59	16045.31	16047.07	16048.86	16045.73
5.0	16001.27	16003.99	16006.85	16009.86	16013.00	16016.27	16019.66	16023.16	16026.77	16020.36
7.5	15948.62	15950.37	15953.61	15957.27	15961.32	15965.76	15970.57	15975.75	15981.28	15971.34
10.0	15867.87	15870.56	15873.95	15878.06	15882.87	15888.36	15894.52	15901.35	15908.83	15895.14
12.5	15763.98	15766.20	15772.22	15772.63	15777.40	15783.36	15790.51	15798.82	15808.26	15790.86
15.0	15642.92	15638.64	15640.25	15643.56	15648.58	15655.28	15663.65	15673.67	15685.32	15663.79
17.5	15484.58	15482.04	15481.78	15488.46	15487.06	15493.11	15501.59	15512.51	15525.84	15500.48
20.0	15306.14	15303.27	15297.37	15297.35	15300.41	15306.53	15315.70	15327.91	15343.11	15313.51
22.5	15116.30	15098.43	15091.16	15087.93	15088.00	15091.94	15100.10	15112.46	15129.04	15095.02
25.0	14881.13	14864.43	14861.71	14837.20	14830.27	14829.65	14835.31	14847.22	14865.30	14823.78
27.5	14569.58	14524.49	14484.34	14453.76	14441.17	14414.58	14409.34	14415.73	14433.70	14386.20
30.0	14127.79	14053.65	13996.96	13951.48	13918.16	13897.94	13890.95	13897.29	13917.00	13863.51
32.5	13621.14	13537.19	13471.79	13422.63	13386.85	13365.93	13358.88	13365.53	13385.98	13332.24
35.0	13132.26	13056.06	13000.44	12965.59	12933.52	12920.61	12918.96	12928.78	12950.22	12895.94
37.5	12736.62	12672.16	12621.54	12576.75	12547.73	12529.61	12524.43	12533.14	12555.74	12496.48
40.0	12290.40	12286.77	12221.12	12169.53	12130.77	12106.08	12096.78	12103.30	12126.00	12061.80
42.5	11795.14	11849.21	11797.97	11732.51	11683.07	11661.19	11635.68	11639.53	11662.77	11593.58
45.0	11274.54	11316.85	11358.31	11264.20	11203.44	11160.95	11139.80	11141.12	11164.32	11089.22
47.5	10728.63	10760.16	10810.46	10774.59	10688.80	10635.50	10605.46	10601.35	10623.78	10544.53
50.0	10172.75	10174.11	10207.71	10233.43	10142.42	10074.77	10035.72	10026.36	10047.31	9963.34
52.5	9560.33	9552.54	9579.31	9622.89	9554.68	9470.28	9419.36	9404.69	9428.93	9330.25
55.0	8920.24	8884.10	8873.23	8894.22	8880.43	8769.25	8701.45	8680.20	8705.83	8599.38
57.5	8226.60	8152.22	8093.14	8076.52	8117.99	7981.36	7884.43	7843.60	7867.75	7743.12
60.0	7436.86	7310.04	7203.69	7157.28	7148.73	7065.82	6961.90	6914.88	6930.40	6836.84
62.5	6482.89	6447.38	6374.31	6319.02	6320.84	6326.34	6246.22	6175.02	6189.55	6092.78
65.0	5658.38	5654.50	5681.88	5583.88	5550.02	5582.18	5480.17	5423.70	5441.78	5325.92
67.5	4892.80	4864.98	4848.67	4803.52	4738.75	4735.06	4682.08	4584.17	4586.94	4460.11
70.0	4134.35	4007.75	3986.13	3952.51	3849.67	3800.79	3764.27	3667.04	3660.71	3575.07
72.5	3254.27	3216.38	3151.38	3099.61	3091.97	3017.40	3018.53	2921.62	2917.29	2828.82
75.0	2472.21	2459.89	2403.63	2334.76	2309.47	2235.71	2197.76	2143.58	2126.38	2056.54
77.5	1764.29	1716.12	1669.08	1630.86	1569.64	1543.50	1470.04	1421.13	1403.96	1345.65
80.0	1147.05	1057.40	1046.07	982.64	942.93	889.70	877.52	845.26	827.93	778.25
82.5	669.98	620.97	547.32	448.80	418.01	341.95	376.65	409.18	393.46	389.67
85.0	255.69	255.08	229.15	177.99	119.52	85.77	58.75	76.26	137.17	133.82
87.5	0.00	0.00	0.00	19.24	35.55	33.35	27.12	28.13	46.89	56.61

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CANDELA TABULATION - (Cont.)

90.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 22.72 0.00

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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16042.64	16039.59	16036.59	16033.63	16030.74	16027.91	16025.16	16022.48	16019.88	16017.36
5.0	16014.06	16007.89	16001.86	15995.98	15990.28	15984.76	15979.44	15974.32	15969.42	15964.75
7.5	15961.76	15952.56	15943.78	15935.43	15927.54	15920.12	15914.32	15906.40	15899.82	15893.74
10.0	15882.11	15869.80	15858.22	15847.43	15837.46	15828.32	15820.06	15812.69	15808.15	15799.99
12.5	15774.61	15759.57	15745.77	15733.25	15725.21	15711.64	15702.04	15693.71	15686.67	15683.78
15.0	15643.93	15625.80	15609.44	15594.92	15582.27	15571.55	15567.07	15554.59	15547.59	15542.45
17.5	15477.57	15457.17	15439.33	15429.15	15410.97	15399.96	15391.47	15385.52	15381.59	15379.84
20.0	15286.96	15263.56	15243.39	15226.51	15212.99	15205.75	15195.80	15192.04	15195.99	15193.05
22.5	15065.33	15040.09	15019.44	15003.02	14990.06	14981.54	14984.22	14976.35	14979.13	14985.16
25.0	14788.84	14760.92	14740.45	14727.83	14735.87	14720.56	14721.63	14729.20	14737.83	14753.61
27.5	14350.40	14326.45	14324.21	14310.34	14317.00	14335.72	14363.65	14391.73	14428.15	14469.31
30.0	13823.63	13797.54	13785.35	13787.16	13801.96	13828.49	13873.55	13921.09	13986.03	14058.45
32.5	13291.72	13263.77	13248.56	13249.53	13263.74	13292.84	13337.50	13396.80	13477.07	13410.79
35.0	12853.52	12823.05	12804.56	12806.29	12805.73	12823.13	12854.75	12897.32	12822.85	12760.79
37.5	12451.19	12419.94	12401.93	12397.30	12409.38	12427.43	12460.85	12372.37	12269.00	12182.83
40.0	12014.17	11983.16	11968.69	11969.86	11985.90	12016.72	11962.94	11847.56	11747.39	11660.60
42.5	11543.91	11523.78	11500.94	11506.53	11530.36	11536.22	11409.63	11300.03	11205.46	11124.11
45.0	11036.71	11007.02	11000.18	11015.11	11068.27	10952.76	10831.58	10729.40	10642.76	10570.80
47.5	10492.07	10466.08	10464.82	10497.64	10470.72	10336.56	10226.08	10136.18	10062.88	10004.54
50.0	9910.48	9888.87	9898.08	9932.14	9817.97	9691.80	9601.56	9523.69	9456.11	9413.93
52.5	9271.29	9250.87	9269.11	9267.07	9127.67	9004.80	8920.19	8864.12	8828.28	8773.34
55.0	8539.62	8526.06	8557.92	8469.00	8344.04	8256.74	8195.70	8165.38	8121.08	8061.72
57.5	7682.40	7681.58	7729.29	7584.61	7471.49	7414.39	7414.04	7387.63	7308.01	7273.97
60.0	6797.50	6798.98	6759.78	6651.65	6577.32	6515.51	6508.20	6520.54	6498.20	6453.64
62.5	6081.94	6081.25	5967.28	5848.28	5766.69	5730.95	5665.19	5667.48	5680.67	5677.16
65.0	5287.04	5296.13	5154.26	5062.49	5055.67	4945.11	4897.19	4890.07	4918.13	4928.76
67.5	4431.02	4393.45	4277.49	4239.56	4198.87	4136.41	4104.49	4141.99	4167.44	4114.97
70.0	3574.53	3497.42	3435.01	3383.38	3357.69	3352.70	3325.22	3319.83	3321.02	3285.04
72.5	2840.09	2711.80	2691.13	2633.52	2579.26	2604.85	2576.73	2532.36	2504.81	2485.91
75.0	2022.19	1970.13	1934.72	1896.23	1890.20	1865.74	1849.52	1812.30	1780.33	1720.36
77.5	1312.97	1291.87	1276.16	1236.36	1245.72	1230.70	1185.99	1125.57	1185.91	1196.73
80.0	759.13	747.34	719.37	723.58	709.29	671.01	698.60	712.11	732.95	727.37
82.5	362.76	350.32	348.57	326.93	336.58	359.13	368.88	354.66	327.53	288.46
85.0	124.15	125.46	126.78	142.74	140.16	119.39	93.23	77.72	56.77	30.13
87.5	51.73	51.70	42.66	16.98	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	16014.94	16012.61	16010.69	16008.22	16006.00	16003.88	16001.86	15999.96	15998.17	15996.50
5.0	15960.33	15956.15	15953.31	15948.52	15944.88	15941.51	15938.41	15935.58	15933.04	15931.19
7.5	15888.15	15883.09	15878.57	15874.45	15870.51	15869.55	15864.19	15862.90	15858.90	15856.12
10.0	15795.48	15789.44	15785.48	15782.06	15778.74	15776.26	15776.03	15772.65	15771.24	15772.18
12.5	15676.15	15672.46	15670.04	15668.55	15667.70	15668.15	15668.76	15669.48	15671.34	15672.68
15.0	15539.15	15537.45	15537.56	15538.56	15539.77	15542.70	15545.92	15553.51	15556.26	15565.82
17.5	15386.59	15382.52	15386.34	15391.10	15396.17	15403.21	15411.85	15420.94	15430.36	15440.12
20.0	15197.33	15203.48	15211.28	15221.52	15234.23	15247.95	15263.49	15278.09	15228.53	15187.56
22.5	14993.18	15004.85	15019.65	15036.56	15058.91	15004.69	14949.78	14900.91	14855.03	14812.49

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CANDELA TABULATION - (Cont.)

25.0	14767.56	14787.37	14809.60	14741.58	14676.33	14616.95	14562.11	14511.84	14466.67	14427.56
27.5	14505.59	14472.85	14398.95	14331.93	14270.53	14213.86	14164.87	14112.49	14069.39	14030.70
30.0	14010.70	13961.54	13918.07	13871.74	13828.36	13786.57	13743.22	13701.12	13661.71	13626.66
32.5	13367.84	13340.17	13335.52	13311.22	13306.48	13299.58	13289.74	13270.17	13242.85	13221.64
35.0	12713.12	12685.66	12676.45	12691.33	12712.03	12728.29	12761.31	12787.62	12800.28	12790.20
37.5	12117.48	12073.57	12041.31	12042.65	12055.04	12098.49	12156.68	12226.85	12284.61	12287.96
40.0	11586.35	11525.80	11482.91	11454.12	11443.19	11467.76	11522.14	11570.40	11626.69	11687.77
42.5	11058.54	11004.25	10960.56	10928.77	10896.70	10865.95	10881.24	10923.99	10989.87	11042.40
45.0	10512.65	10468.33	10437.39	10386.64	10345.07	10315.48	10299.03	10321.64	10368.52	10413.42
47.5	9955.20	9911.90	9855.24	9815.20	9791.86	9764.95	9755.78	9758.65	9787.66	9824.68
50.0	9367.79	9304.07	9257.57	9227.72	9213.46	9206.27	9209.10	9220.45	9241.41	9271.02
52.5	8709.60	8671.31	8644.99	8631.21	8628.95	8640.16	8655.32	8680.90	8710.70	8649.59
55.0	8023.22	8002.63	8005.79	8018.06	8035.68	8063.59	8072.64	7994.12	7931.25	7873.81
57.5	7290.32	7311.55	7336.34	7383.16	7406.38	7316.23	7252.82	7194.38	7142.61	7096.69
60.0	6475.21	6570.47	6649.77	6596.84	6526.30	6450.77	6410.85	6387.72	6348.46	6318.70
62.5	5661.13	5709.04	5745.90	5711.26	5651.79	5585.41	5545.64	5564.53	5552.95	5537.83
65.0	4850.70	4799.55	4825.74	4841.23	4791.36	4730.87	4677.69	4714.45	4755.04	4753.49
67.5	4024.90	3966.69	3959.05	3967.58	3956.00	3890.10	3830.06	3867.00	3959.33	3966.53
70.0	3221.69	3158.67	3137.55	3136.87	3138.98	3130.30	3107.14	3109.74	3182.72	3192.93
72.5	2440.19	2375.68	2388.87	2435.82	2440.64	2441.62	2415.47	2388.83	2423.95	2432.46
75.0	1764.35	1767.83	1770.21	1788.42	1780.66	1765.24	1741.75	1702.12	1690.93	1684.14
77.5	1214.59	1209.95	1190.53	1172.00	1145.51	1105.89	1067.87	1016.99	979.71	944.07
80.0	705.50	678.72	633.89	587.05	529.44	487.12	475.84	453.14	426.97	400.86
82.5	243.00	228.54	207.61	181.82	146.81	106.24	63.72	16.17	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	15994.95	15993.52	15992.21	15991.03	15990.17	15988.87	15987.62	15986.50	15985.50	15984.64
5.0	15928.39	15926.13	15924.14	15922.43	15921.01	15919.59	15918.11	15916.90	15915.97	15915.62
7.5	15853.82	15852.28	15850.11	15848.63	15847.61	15846.57	15845.41	15844.68	15844.18	15843.34
10.0	15770.01	15769.89	15770.40	15769.54	15769.36	15769.37	15769.50	15770.22	15770.01	15770.38
12.5	15675.11	15677.33	15680.08	15682.89	15685.87	15688.32	15690.17	15692.12	15694.19	15695.75
15.0	15569.00	15575.65	15581.56	15588.28	15594.71	15601.05	15609.03	15611.56	15615.86	15619.71
17.5	15451.07	15463.40	15444.37	15415.74	15389.33	15366.23	15346.25	15328.23	15311.87	15298.22
20.0	15146.68	15110.60	15078.64	15054.71	15025.18	15002.11	14982.08	14964.82	14951.50	14936.25
22.5	14773.99	14739.58	14709.48	14679.63	14655.70	14634.17	14615.14	14598.74	14584.62	14572.79
25.0	14393.37	14358.86	14329.77	14303.89	14281.14	14262.05	14245.21	14230.80	14218.20	14207.72
27.5	13997.90	13969.19	13943.87	13921.66	13902.46	13886.07	13875.64	13860.56	13850.61	13841.43
30.0	13596.36	13571.25	13550.62	13533.26	13518.45	13508.03	13496.33	13487.40	13480.58	13474.32
32.5	13188.53	13167.06	13150.86	13138.53	13130.26	13109.45	13092.71	13078.05	13065.88	13055.22
35.0	12774.13	12742.85	12713.83	12691.58	12674.03	12657.64	12645.30	12635.48	12626.03	12619.05
37.5	12271.99	12266.06	12242.06	12225.59	12213.36	12201.96	12196.38	12189.87	12188.13	12181.07
40.0	11719.30	11739.25	11754.35	11754.40	11749.71	11744.32	11742.33	11743.02	11743.11	11743.03
42.5	11114.60	11178.91	11235.82	11274.21	11281.63	11285.94	11287.26	11294.01	11302.44	11303.75
45.0	10488.51	10583.85	10678.08	10775.66	10808.82	10823.53	10831.49	10843.22	10854.64	10864.52
47.5	9870.52	9965.34	10092.59	10229.71	10327.02	10326.53	10283.68	10248.11	10220.36	10194.99
50.0	9301.30	9343.82	9399.78	9474.19	9528.32	9521.76	9501.37	9482.20	9459.78	9437.45
52.5	8594.98	8545.70	8569.93	8629.01	8683.92	8698.81	8705.04	8712.59	8699.53	8679.96
55.0	7825.87	7777.14	7770.61	7806.64	7849.72	7870.44	7896.92	7935.19	7937.86	7922.19
57.5	7056.47	7018.19	6992.35	7004.73	7028.32	7042.30	7079.17	7148.47	7175.31	7164.49
60.0	6287.54	6259.14	6233.30	6226.55	6226.47	6223.05	6255.71	6363.69	6412.86	6407.05

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CANDELA TABULATION - (Cont.)

62.5	5518.54	5500.16	5480.62	5464.65	5441.75	5420.39	5434.80	5531.89	5597.90	5591.70
65.0	4747.22	4729.70	4705.80	4678.57	4650.49	4633.93	4633.68	4701.96	4761.38	4754.33
67.5	3960.37	3943.59	3918.55	3890.52	3861.42	3848.20	3839.33	3882.42	3928.89	3919.81
70.0	3179.03	3162.77	3137.74	3106.35	3075.50	3066.92	3052.85	3072.03	3101.96	3086.09
72.5	2406.33	2386.09	2359.18	2325.98	2292.22	2278.18	2271.51	2269.55	2271.86	2253.03
75.0	1643.00	1613.94	1586.28	1548.52	1513.15	1493.34	1490.98	1473.74	1449.37	1421.10
77.5	889.32	866.73	861.75	839.52	814.74	799.76	797.65	779.15	753.69	730.05
80.0	363.06	327.94	296.28	257.75	218.79	183.31	152.40	119.55	88.84	62.09
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	16053.33	16053.33	16053.33	16053.33	16053.33
2.5	15983.91	15983.31	15982.84	15982.51	15982.31
5.0	15914.28	15913.13	15912.25	15911.64	15911.29
7.5	15842.93	15842.80	15841.56	15840.71	15840.27
10.0	15770.50	15770.71	15770.75	15769.74	15769.25
12.5	15697.19	15698.18	15699.83	15698.71	15698.23
15.0	15622.65	15625.34	15627.12	15627.64	15627.21
17.5	15287.61	15278.39	15272.21	15268.40	15266.29
20.0	14925.40	14916.92	14910.92	14907.52	14905.38
22.5	14562.92	14555.31	14549.57	14546.57	14544.46
25.0	14199.36	14192.84	14187.82	14185.60	14183.55
27.5	13834.64	13829.66	13825.73	13823.73	13822.64
30.0	13469.48	13466.35	13463.56	13462.18	13461.73
32.5	13045.88	13040.58	13035.08	13032.12	13031.52
35.0	12611.82	12607.15	12603.91	12601.43	12601.31
37.5	12178.96	12174.21	12173.03	12170.76	12171.09
40.0	11742.00	11741.37	11740.64	11740.13	11740.88
42.5	11306.47	11309.52	11308.77	11309.50	11310.67
45.0	10871.99	10874.63	10876.92	10878.90	10880.46
47.5	10172.61	10154.57	10140.84	10132.27	10130.11
50.0	9419.08	9403.30	9390.91	9382.18	9379.75
52.5	8665.45	8652.07	8641.03	8632.09	8629.40
55.0	7911.01	7900.43	7892.00	7882.15	7879.05
57.5	7156.05	7148.63	7140.57	7131.81	7128.69
60.0	6400.89	6396.85	6390.31	6381.78	6378.34
62.5	5579.68	5575.30	5565.10	5555.63	5552.19
65.0	4747.53	4747.50	4737.08	4728.72	4726.03
67.5	3912.00	3919.90	3909.16	3901.75	3899.88
70.0	3077.64	3092.91	3081.32	3074.75	3073.72
72.5	2243.07	2263.66	2253.55	2247.71	2247.57
75.0	1408.38	1435.25	1425.84	1420.64	1421.42
77.5	716.35	725.78	716.83	711.30	710.71
80.0	40.22	23.54	10.53	2.64	0.00
82.5	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5932.75	13.10	13.20
0-30	12697.8	28.10	28.20
0-40	20867.47	46.20	46.40
0-60	37039.95	82.00	82.30
0-80	44828.23	99.20	99.70
0-90	44985.07	99.60	100.00
10-90	43465.18	96.20	96.60
20-40	14934.72	33.10	33.20
20-50	23480.65	52.00	52.20
40-70	21560.05	47.70	47.90
60-80	7788.28	17.20	17.30
70-80	2400.72	5.30	5.30
80-90	156.84	0.30	0.30
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	44985.07	99.60	100.00

Total Luminaire Efficiency = 99.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1519.88
10-20	4412.87
20-30	6765.05
30-40	8169.67
40-50	8545.93
50-60	7626.55
60-70	5387.56
70-80	2400.72
80-90	156.84
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

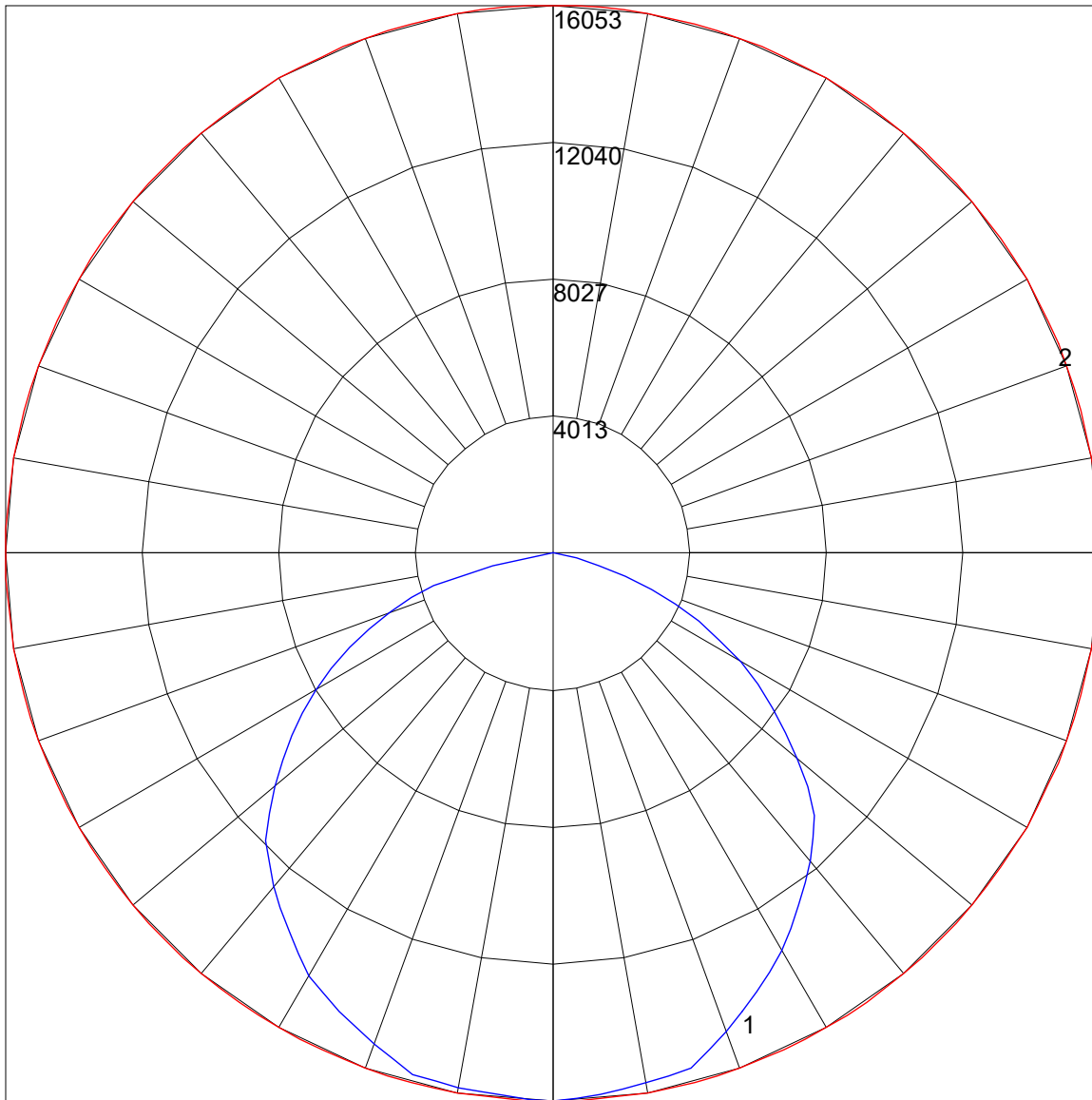
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	106	102	99	96	98	95	93	94	92	90	91	89	87	85
2	99	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	76	64	55	49	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 16053.33 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)