

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS310HTVHOWT50120-277V (60° BEAM).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1

[TESTLAB] BEGHELLI

[TESTDATE] 02 November 2021

[ISSUEDATE] 2021-11-02 17:17:05

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMINAIRE] HZCAS310HTVHOWT50120-277V (60° BEAM)

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

CHARACTERISTICS

Lumens Per Lamp	32732 (1 lamp)
Total Lamp Lumens	32732
Luminaire Lumens	32706
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	249.04
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.72
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.98
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

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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	24233.97	24230.34	24229.09	24230.22	24233.73	24239.61	24247.84	24258.42	24271.31	24284.57
5.0	22985.64	22978.85	22976.79	22979.47	22986.87	22996.71	23007.56	23023.12	23043.35	23061.97
7.5	21737.31	21727.81	21725.36	21729.02	21733.39	21743.22	21755.75	21776.63	21798.37	21827.12
10.0	20488.97	20477.23	20474.80	20473.64	20478.23	20487.67	20498.62	20518.27	20537.98	20566.21
12.5	19240.64	19227.10	19222.94	19218.21	19220.60	19223.67	19233.02	19246.13	19264.94	19288.95
15.0	17992.31	17977.42	17968.60	17960.50	17957.34	17957.17	17960.58	17967.18	17982.21	17999.66
17.5	16340.48	16327.79	16324.11	16328.78	16340.47	16357.21	16383.45	16420.10	16451.72	16518.17
20.0	14688.64	14676.54	14673.02	14676.58	14688.01	14708.29	14737.94	14763.49	14822.16	14874.48
22.5	13036.80	13024.76	13020.22	13028.98	13042.32	13064.58	13096.81	13138.10	13185.93	13241.13
25.0	11384.96	11374.83	11375.06	11383.22	11400.64	11427.87	11465.42	11510.84	11563.36	11625.47
27.5	9733.13	9724.12	9727.37	9740.54	9764.13	9799.16	9844.07	9894.95	9959.07	10030.98
30.0	8081.29	8074.44	8082.63	8103.17	8134.50	8179.16	8232.81	8297.81	8374.61	8460.44
32.5	7181.93	7169.29	7158.45	7147.06	7132.37	7117.83	7101.81	7084.68	7067.97	7048.43
35.0	6282.56	6271.85	6264.29	6255.41	6246.96	6238.28	6227.85	6213.03	6208.52	6195.87
37.5	5383.19	5374.99	5371.49	5367.82	5367.11	5365.69	5365.87	5366.43	5366.26	5365.19
40.0	4483.82	4478.70	4479.67	4484.10	4491.86	4502.39	4514.27	4529.16	4542.71	4556.81
42.5	3584.46	3582.95	3589.90	3603.80	3623.34	3646.93	3675.18	3706.09	3738.61	3770.16
45.0	2685.09	2687.70	2702.06	2726.55	2760.93	2800.83	2847.69	2899.39	2953.54	3008.34
47.5	2361.91	2359.29	2356.48	2352.48	2348.13	2341.47	2334.85	2327.20	2318.21	2308.68
50.0	2038.72	2036.97	2036.04	2034.04	2031.92	2028.21	2024.69	2020.64	2015.53	2009.64
52.5	1715.54	1715.30	1715.79	1715.95	1716.18	1717.16	1717.49	1717.45	1717.02	1716.03
55.0	1392.35	1393.49	1396.17	1399.59	1403.74	1407.99	1412.83	1417.71	1422.70	1427.65
57.5	1069.16	1071.75	1076.70	1083.43	1091.55	1100.66	1110.62	1121.29	1132.50	1144.28
60.0	745.98	750.14	757.63	767.97	780.61	795.07	810.37	828.01	846.36	865.83
62.5	633.28	635.24	636.85	637.97	638.30	637.71	635.95	634.01	631.92	630.06
65.0	520.58	522.30	523.88	525.28	526.10	526.21	525.62	524.98	524.41	524.02
67.5	407.89	409.36	410.95	412.55	414.05	415.08	415.80	416.61	417.68	418.99
70.0	295.19	296.41	298.04	300.09	302.19	304.27	306.43	308.84	311.73	314.89
72.5	182.49	183.47	185.15	187.58	190.50	193.60	197.43	201.62	206.45	211.60
75.0	69.79	70.52	72.28	75.14	78.94	83.42	88.79	94.85	101.69	109.00
77.5	34.90	35.11	35.55	36.26	37.19	38.21	39.52	41.02	42.83	44.79
80.0	0.00	0.13	0.52	1.18	2.09	3.25	4.66	6.30	8.20	10.31
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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	24302.33	24319.20	24338.33	24359.67	24383.19	24408.84	24436.57	24466.33	24498.06	24531.70
5.0	23094.39	23122.57	23155.34	23192.63	23234.38	23279.33	23324.93	23374.88	23429.07	23487.42
7.5	21858.44	21893.08	21934.66	21982.53	22030.49	22085.27	22146.78	22213.34	22281.62	22397.05
10.0	20598.47	20635.30	20678.57	20727.89	20783.12	20845.91	20911.60	20986.35	21068.26	21150.55
12.5	19318.81	19354.53	19397.04	19445.33	19500.89	19557.90	19625.75	19697.46	19779.93	19869.70
15.0	18024.69	18056.64	18089.08	18129.75	18175.77	18232.63	18294.00	18366.99	18442.56	18531.80
17.5	16578.94	16643.50	16721.02	16791.69	16816.66	16875.85	16929.01	16987.94	17058.58	17140.60
20.0	14934.81	15005.21	15083.71	15167.03	15258.00	15357.52	15466.19	15596.74	15648.34	15718.81
22.5	13305.87	13379.40	13458.33	13540.53	13633.69	13735.08	13844.24	13956.30	14080.40	14209.61
25.0	11696.17	11771.81	11853.24	11944.76	12042.45	12120.44	12250.79	12363.59	12483.40	12610.12
27.5	10108.76	10192.38	10285.26	10383.95	10486.73	10592.93	10704.80	10820.84	10941.51	11031.05
30.0	8550.25	8650.23	8756.75	8867.01	8981.35	9099.32	9220.85	9342.26	9466.47	9590.35

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CANDELA TABULATION - (Cont.)

32.5	7028.75	7148.18	7273.66	7403.92	7527.35	7674.11	7807.83	7942.40	8073.18	8201.09
35.0	6184.03	6169.51	6154.18	6130.81	6163.19	6321.16	6477.51	6629.50	6756.78	6912.07
37.5	5353.68	5359.66	5354.91	5351.06	5343.13	5335.25	5327.92	5414.45	5581.84	5736.84
40.0	4569.34	4580.31	4590.64	4597.61	4602.75	4606.78	4608.09	4610.19	4610.97	4678.32
42.5	3802.03	3831.78	3859.16	3883.16	3904.37	3921.84	3951.26	3950.36	3960.73	3970.02
45.0	3061.88	3114.11	3162.12	3206.41	3239.59	3282.23	3313.51	3339.99	3362.54	3381.66
47.5	2348.67	2421.15	2498.68	2567.12	2629.03	2685.47	2734.64	2777.44	2813.74	2836.55
50.0	2003.25	1996.04	1988.63	1980.85	2050.56	2129.31	2199.23	2259.67	2311.59	2355.96
52.5	1714.69	1712.54	1710.52	1707.98	1705.54	1703.06	1703.79	1783.90	1853.38	1912.12
55.0	1432.38	1436.54	1440.44	1444.12	1447.33	1446.48	1451.51	1452.60	1452.90	1509.77
57.5	1156.01	1165.71	1176.97	1187.42	1196.73	1207.45	1215.06	1221.93	1226.98	1231.22
60.0	885.48	904.98	923.81	941.91	959.13	975.08	989.97	1002.80	1013.97	1023.34
62.5	628.04	648.65	676.02	702.61	728.09	752.36	775.04	795.07	812.82	828.26
65.0	523.49	522.81	521.30	520.94	520.33	538.45	569.44	597.44	622.62	642.97
67.5	420.12	421.34	422.29	423.38	424.88	427.01	428.84	430.43	442.23	470.30
70.0	318.11	321.21	324.34	327.64	331.41	335.49	339.27	342.85	346.01	348.42
72.5	216.96	222.26	227.77	233.45	239.61	245.84	251.81	257.60	262.79	267.40
75.0	116.61	124.31	132.35	140.56	149.19	157.81	166.20	175.05	181.93	188.97
77.5	46.89	49.04	51.48	54.13	59.89	71.07	82.06	92.83	103.05	112.77
80.0	12.61	15.07	17.75	20.62	23.79	27.17	30.73	34.52	38.44	42.62
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	5.22	9.39
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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	24560.91	24603.21	24642.01	24680.80	24721.28	24763.36	24806.96	24852.00	24898.41	24946.08
5.0	23549.80	23611.52	23683.55	23753.88	23827.96	23905.64	23986.79	24071.26	24158.90	24249.55
7.5	22437.69	22514.95	22615.72	22711.15	22812.63	22919.99	23033.04	23136.07	23273.82	23398.94
10.0	21241.84	21322.82	21446.75	21558.50	21697.34	21807.75	21943.54	22084.34	22233.35	22390.37
12.5	19966.58	20074.72	20188.13	20309.90	20442.96	20585.63	20735.39	20896.43	21068.57	21221.82
15.0	18624.93	18732.06	18848.19	18975.07	19099.18	19264.27	19425.97	19601.54	19788.98	19986.46
17.5	17231.78	17335.05	17448.68	17574.17	17713.33	17861.68	18026.51	18205.93	18399.48	18609.97
20.0	15800.58	15891.13	15995.65	16114.64	16247.48	16394.41	16558.85	16737.64	16935.60	17152.36
22.5	14341.32	14421.40	14516.24	14625.67	14749.24	14889.94	15047.31	15223.08	15418.44	15631.80
25.0	12743.22	12881.98	13029.01	13128.45	13240.28	13370.31	13515.58	13673.18	13865.59	14072.16
27.5	11192.94	11325.32	11462.40	11571.38	11735.21	11850.08	11983.21	12136.71	12345.08	12508.74
30.0	9714.46	9839.08	9964.91	10071.56	10231.59	10369.93	10460.64	10626.90	10786.64	10966.72
32.5	8324.88	8447.47	8595.78	8663.85	8808.59	8936.04	9089.54	9191.20	9330.00	9488.14
35.0	7044.84	7165.68	7285.48	7376.53	7509.97	7616.33	7726.93	7846.98	7974.53	8116.84
37.5	5879.07	6022.70	6104.65	6235.20	6338.73	6439.72	6543.38	6652.50	6768.60	6892.89
40.0	4838.22	4978.32	5102.29	5213.59	5316.91	5415.05	5512.69	5612.71	5718.61	5828.45
42.5	3978.39	4075.93	4210.55	4327.80	4432.93	4528.39	4620.93	4713.05	4808.54	4911.04
45.0	3398.27	3413.03	3440.43	3563.65	3669.80	3765.00	3852.91	3938.11	4024.33	4114.78
47.5	2877.45	2893.40	2910.96	2928.31	3016.38	3110.60	3182.47	3260.47	3351.12	3432.31
50.0	2386.45	2422.72	2448.24	2470.30	2490.28	2552.29	2630.02	2708.69	2777.50	2833.90
52.5	1960.78	2001.17	2034.56	2062.09	2086.18	2108.70	2155.67	2227.26	2290.66	2351.59
55.0	1572.31	1623.95	1666.04	1700.45	1729.67	1754.50	1771.09	1820.49	1878.31	1932.60
57.5	1234.35	1286.57	1338.33	1381.01	1409.20	1446.00	1469.83	1490.56	1530.52	1577.81
60.0	1031.13	1036.97	1048.09	1094.19	1145.13	1177.38	1200.87	1220.89	1240.66	1277.65
62.5	840.91	851.83	860.77	874.96	906.67	938.97	964.42	985.80	1005.19	1025.30
65.0	662.34	678.60	691.65	712.92	720.49	729.19	758.35	781.47	801.26	818.08
67.5	496.84	518.45	542.14	556.84	567.93	576.50	583.26	604.46	624.65	640.96

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CANDELA TABULATION - (Cont.)

70.0	350.36	368.12	393.59	413.53	429.17	441.26	450.80	459.36	474.53	491.81
72.5	270.54	273.88	275.48	281.45	302.27	318.55	331.94	343.77	354.00	365.49
75.0	195.07	200.24	204.10	206.48	206.81	206.20	225.13	240.59	253.23	263.33
77.5	121.66	129.62	136.31	141.50	144.74	146.48	147.43	148.14	164.40	177.01
80.0	50.38	61.54	71.54	80.09	86.95	92.31	96.26	98.83	100.14	101.41
82.5	13.76	18.34	23.15	28.17	33.51	41.58	48.78	54.29	57.93	60.44
85.0	0.00	0.00	0.00	0.00	0.00	4.72	10.05	15.14	19.64	23.94
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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	24994.94	25044.89	25095.83	25147.67	25200.32	25253.67	25307.63	25317.12	25327.09	25337.53
5.0	24343.05	24439.23	24525.47	24631.90	24738.95	24846.42	24954.09	24972.51	24990.90	25009.21
7.5	23529.39	23664.97	23805.46	23950.63	24100.24	24254.04	24411.79	24440.77	24473.38	24509.56
10.0	22555.19	22727.56	22907.26	23067.89	23275.90	23484.75	23694.02	23729.52	23764.94	23800.22
12.5	21443.47	21643.87	21854.96	22076.54	22308.39	22550.24	22801.84	22850.24	22908.03	22975.11
15.0	20197.96	20423.38	20662.60	20915.49	21156.68	21455.21	21754.40	21805.84	21857.16	21966.25
17.5	18837.44	19080.28	19338.15	19613.66	19906.85	20217.71	20546.23	20613.55	20698.36	20800.52
20.0	17385.00	17638.01	17911.70	18206.34	18480.13	18848.75	19218.25	19283.00	19347.60	19510.04
22.5	15867.51	16093.78	16406.06	16709.53	17038.27	17392.94	17774.12	17857.27	17967.42	18104.47
25.0	14301.90	14554.65	14833.49	15139.64	15474.35	15823.19	16234.15	16307.84	16445.58	16599.27
27.5	12725.12	12967.57	13238.15	13538.92	13870.71	14235.57	14635.51	14729.48	14860.48	15028.43
30.0	11169.47	11397.47	11653.19	11939.25	12258.40	12593.46	13006.73	13081.90	13239.73	13418.56
32.5	9671.40	9879.48	10084.24	10378.66	10677.17	11012.54	11388.72	11485.20	11626.78	11813.69
35.0	8279.88	8461.33	8667.27	8899.44	9163.22	9441.21	9807.63	9879.19	10047.43	10240.08
37.5	7027.78	7181.15	7351.55	7548.76	7778.89	8043.41	8348.25	8440.49	8579.87	8767.15
40.0	5938.30	6059.51	6201.60	6366.84	6558.69	6761.94	7047.46	7107.86	7260.75	7437.88
42.5	5003.38	5100.57	5213.56	5346.14	5508.77	5701.22	5929.29	6002.24	6117.66	6276.40
45.0	4205.12	4281.58	4371.42	4483.41	4617.63	4761.25	4975.50	5019.19	5143.38	5288.20
47.5	3518.79	3585.50	3657.33	3737.63	3858.05	3995.22	4163.38	4219.48	4312.86	4433.28
50.0	2921.24	2996.59	3043.26	3119.82	3209.61	3307.09	3465.66	3498.41	3600.75	3721.34
52.5	2414.93	2486.38	2536.59	2590.53	2664.18	2760.39	2882.52	2925.82	3000.63	3109.32
55.0	1987.30	2046.94	2103.11	2143.92	2201.98	2266.50	2383.22	2406.66	2489.90	2588.89
57.5	1624.69	1674.70	1731.82	1765.13	1811.04	1876.62	1964.48	1998.47	2059.52	2150.46
60.0	1317.41	1359.74	1407.78	1444.22	1479.58	1520.11	1605.63	1623.21	1692.44	1774.74
62.5	1054.88	1091.71	1131.92	1173.26	1198.82	1242.28	1304.86	1332.27	1383.09	1461.38
65.0	837.35	866.18	899.93	937.77	966.09	998.77	1048.27	1073.75	1122.48	1182.29
67.5	656.34	677.82	709.10	745.85	767.28	789.94	828.46	856.50	903.32	943.12
70.0	506.01	521.02	548.12	575.60	599.75	613.03	642.69	669.09	717.13	740.81
72.5	379.92	399.77	415.33	435.47	459.30	469.67	495.57	515.90	555.15	567.98
75.0	271.22	288.93	304.00	318.44	335.58	350.94	375.12	389.79	413.94	436.54
77.5	186.28	193.73	207.12	220.70	231.59	245.05	263.42	276.35	294.15	319.02
80.0	114.50	122.93	128.68	139.75	148.80	159.64	171.14	182.77	195.48	211.37
82.5	62.53	67.30	75.50	79.43	86.42	92.07	99.96	107.13	118.33	131.63
85.0	28.07	32.10	37.43	41.90	45.39	48.52	51.58	55.09	59.79	71.32
87.5	0.00	3.07	6.68	11.24	12.41	11.08	11.55	14.67	24.67	35.57
90.0	0.00	0.00	0.00	0.00	0.00	0.00	4.31	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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	25348.42	25359.73	25371.44	25383.54	25395.99	25408.78	25421.87	25435.26	25448.90	25462.77

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CANDELA TABULATION - (Cont.)

5.0	25027.42	25065.13	25091.61	25119.41	25148.47	25178.73	25210.14	25242.64	25276.16	25310.64
7.5	24549.25	24592.38	24638.87	24688.63	24741.58	24778.57	24849.26	24906.01	24965.12	25026.48
10.0	23882.92	23944.50	24011.65	24084.25	24162.18	24245.32	24333.50	24422.36	24513.68	24608.95
12.5	23051.35	23136.63	23230.79	23299.31	23436.88	23550.45	23671.48	23799.74	23930.08	24064.83
15.0	22062.08	22170.23	22290.51	22422.68	22566.47	22717.25	22876.49	23045.90	23205.25	23404.63
17.5	20919.87	21056.17	21206.60	21371.26	21551.53	21747.11	21952.94	22168.89	22397.71	22630.69
20.0	19650.36	19811.91	19994.44	20197.63	20415.43	20651.30	20905.59	21171.51	21452.82	21745.88
22.5	18268.22	18421.22	18669.39	18906.68	19168.77	19450.78	19759.56	20077.39	20415.08	20768.73
25.0	16784.79	17001.89	17250.21	17525.32	17828.11	18148.48	18510.78	18888.41	19284.19	19702.08
27.5	15233.12	15474.67	15752.63	16066.41	16408.98	16782.56	17188.40	17624.75	18083.33	18294.09
30.0	13639.09	13901.19	14204.51	14548.46	14932.49	15349.67	15766.77	16299.31	16453.38	16574.54
32.5	12011.22	12323.86	12645.76	13012.71	13426.29	13884.09	14365.21	14511.01	14684.63	14848.48
35.0	10481.18	10770.40	11110.00	11498.17	11937.77	12425.69	12563.98	12738.76	12948.04	13143.06
37.5	9007.70	9301.83	9644.99	10036.77	10479.32	10682.19	10853.95	11057.28	11290.17	11549.20
40.0	7662.66	7940.05	8279.23	8673.88	8940.70	9096.28	9278.22	9489.28	9738.21	10017.87
42.5	6487.86	6747.61	7061.57	7375.23	7504.55	7668.31	7864.53	8088.38	8340.06	8615.63
45.0	5475.04	5714.13	6002.51	6153.15	6282.68	6443.68	6635.85	6854.18	7100.19	7372.07
47.5	4616.67	4829.94	5033.69	5128.62	5251.60	5382.23	5564.79	5803.07	6038.88	6274.50
50.0	3870.25	4080.30	4177.29	4248.42	4388.27	4543.24	4703.69	4913.39	5104.13	5266.67
52.5	3255.17	3399.76	3461.01	3552.26	3667.38	3807.18	3964.67	4133.81	4261.51	4402.63
55.0	2721.67	2800.87	2865.44	2952.93	3062.99	3196.38	3305.14	3427.64	3549.34	3670.34
57.5	2264.46	2303.43	2365.93	2451.37	2556.77	2661.26	2745.08	2840.25	2924.50	3047.69
60.0	1846.88	1888.49	1949.61	2031.45	2122.48	2188.39	2263.50	2345.07	2431.71	2504.57
62.5	1499.95	1539.79	1596.05	1680.79	1732.16	1791.97	1860.27	1930.17	2001.03	2076.79
65.0	1210.77	1253.96	1313.65	1360.24	1408.59	1462.62	1521.44	1581.57	1644.27	1710.63
67.5	968.29	1013.81	1059.35	1097.32	1138.80	1188.23	1237.72	1285.42	1337.39	1390.52
70.0	767.10	806.32	839.13	879.92	920.69	954.15	991.59	1029.84	1069.00	1108.47
72.5	590.36	624.34	657.33	695.82	730.58	753.59	778.60	807.23	833.56	857.83
75.0	452.63	479.20	507.13	536.17	561.89	583.77	595.82	610.43	646.65	684.04
77.5	335.88	360.56	380.94	400.28	419.97	435.87	452.05	476.75	504.52	532.23
80.0	230.84	248.88	267.10	282.36	303.98	323.37	339.69	355.81	375.10	393.10
82.5	144.80	159.11	175.43	192.83	207.74	221.09	232.80	244.52	248.26	223.63
85.0	83.33	94.71	104.76	114.27	112.20	90.02	63.35	32.03	0.00	0.00
87.5	36.86	16.54	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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	25476.85	25489.33	25496.52	25515.31	25527.66	25539.98	25552.25	25564.43	25576.52	25588.48
5.0	25346.01	25376.41	25414.21	25447.71	25481.63	25515.91	25550.49	25585.30	25616.05	25645.41
7.5	25089.97	25142.90	25215.88	25279.18	25343.77	25409.52	25470.31	25529.80	25589.76	25650.07
10.0	24707.96	24787.37	24907.65	25009.58	25114.12	25212.38	25310.76	25410.85	25504.19	25596.44
12.5	24205.40	24348.87	24492.30	24640.48	24786.62	24930.20	25076.12	25217.90	25357.09	25490.26
15.0	23593.60	23786.18	23978.80	24178.14	24371.54	24570.11	24764.69	24962.12	25147.09	25330.66
17.5	22872.30	23119.84	23370.90	23626.37	23881.73	24136.66	24390.24	24636.84	24860.53	25122.27
20.0	22049.97	22360.90	22676.14	22992.57	23312.21	23622.78	23708.50	23801.72	23893.15	23988.79
22.5	21132.14	21506.32	21897.42	22028.41	22141.07	22254.08	22383.57	22513.76	22649.14	22786.60
25.0	20136.40	20258.90	20390.56	20531.89	20685.26	20851.18	21024.75	21161.26	21378.14	21556.97
27.5	18478.79	18635.46	18811.69	18951.77	19206.91	19415.58	19634.29	19858.55	20083.25	20306.63
30.0	16795.95	16998.20	17216.66	17451.10	17701.81	17964.01	18230.46	18500.90	18775.42	19045.58
32.5	15111.71	15355.02	15621.29	15903.83	16196.56	16502.01	16820.23	17140.70	17436.28	17780.52
35.0	13452.49	13737.87	14046.31	14365.06	14665.58	15055.59	15410.92	15778.41	16147.12	16360.23
37.5	11789.54	12163.91	12505.90	12867.25	13239.51	13627.06	13950.64	14178.87	14405.52	14622.67
40.0	10325.14	10659.63	11025.36	11413.37	11734.68	11988.71	12234.11	12475.33	12699.29	12919.62

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CANDELA TABULATION - (Cont.)

42.5	8923.20	9262.36	9587.71	9859.24	10127.43	10385.86	10626.57	10856.65	11077.94	11284.63
45.0	7669.67	7910.23	8159.59	8412.23	8662.01	8904.70	9132.94	9340.93	9514.83	9727.99
47.5	6470.05	6684.49	6903.95	7097.78	7347.53	7558.51	7755.60	7934.96	8095.62	8252.49
50.0	5438.41	5620.38	5786.38	5998.19	6179.40	6349.86	6503.28	6637.49	6752.08	6881.52
52.5	4554.58	4706.46	4852.22	5011.98	5151.22	5273.87	5360.07	5566.29	5764.41	5959.52
55.0	3797.25	3923.36	4043.03	4153.08	4267.86	4434.83	4603.57	4753.76	4936.87	5097.96
57.5	3150.61	3249.37	3346.19	3482.50	3620.43	3762.50	3900.20	4036.16	4154.53	4281.76
60.0	2598.44	2703.00	2814.27	2925.78	3038.30	3148.98	3255.39	3356.13	3448.24	3531.07
62.5	2162.00	2249.57	2338.71	2426.79	2510.93	2590.00	2663.34	2726.10	2778.00	2816.70
65.0	1773.38	1845.41	1911.48	1970.86	2033.68	2080.74	2117.91	2140.87	2185.91	2267.65
67.5	1442.52	1491.46	1535.79	1567.41	1599.95	1653.48	1726.20	1798.01	1869.78	1938.82
70.0	1144.34	1173.67	1209.20	1268.47	1329.49	1389.91	1449.73	1509.35	1567.04	1622.17
72.5	900.55	948.33	992.71	1043.49	1092.83	1140.95	1187.79	1233.57	1276.37	1316.39
75.0	721.82	761.50	798.24	834.62	870.01	905.15	937.82	968.75	996.22	1020.06
77.5	560.54	587.77	613.34	636.93	658.87	679.83	697.75	713.20	724.88	716.48
80.0	410.36	426.06	438.34	432.73	410.30	386.55	360.46	332.73	303.18	271.70
82.5	195.73	165.06	131.21	94.35	55.29	13.76	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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	25600.29	25611.93	25623.38	25631.34	25641.34	25649.04	25656.43	25663.48	25670.18	25676.53
5.0	25674.62	25703.64	25732.39	25751.49	25780.12	25801.56	25822.45	25842.74	25864.84	25874.64
7.5	25703.38	25756.04	25808.56	25856.38	25898.38	25939.75	25973.68	26008.83	26038.22	26064.83
10.0	25685.59	25769.58	25850.42	25925.92	25995.25	26063.05	26117.77	26170.74	26214.39	26259.18
12.5	25620.76	25744.24	25861.59	25970.69	26071.00	26163.58	26248.72	26321.91	26386.38	26437.88
15.0	25506.23	25677.79	25837.62	25987.90	26129.00	26251.10	26365.42	26466.41	26550.86	26619.25
17.5	25234.72	25297.62	25367.12	25433.51	25481.43	25560.46	25613.91	25665.84	25716.46	25755.08
20.0	24088.40	24191.93	24286.51	24380.51	24472.89	24542.70	24642.17	24710.77	24774.40	24830.42
22.5	22923.09	23054.68	23188.32	23315.57	23436.07	23550.20	23656.18	23751.53	23833.81	23906.43
25.0	21734.12	21906.99	22074.36	22238.49	22392.57	22535.43	22667.11	22787.08	22890.09	22978.51
27.5	20528.48	20745.37	20953.43	21151.98	21343.07	21514.21	21675.97	21818.23	21943.83	22048.38
30.0	19312.13	19572.95	19824.64	20062.79	20284.85	20492.53	20680.51	20848.48	20997.14	21120.18
32.5	18090.10	18394.79	18689.71	18836.22	18969.72	19097.40	19215.73	19317.63	19411.96	19496.27
35.0	16576.69	16756.92	16931.63	17089.80	17238.06	17359.87	17503.10	17617.98	17716.56	17805.33
37.5	14825.70	15019.53	15171.19	15369.47	15526.86	15668.23	15804.12	15922.87	16027.85	16119.34
40.0	13126.83	13323.14	13506.97	13679.66	13833.05	13978.87	14113.30	14239.19	14343.05	14438.10
42.5	11484.50	11672.88	11850.53	12014.52	12167.99	12306.70	12439.06	12560.25	12666.84	12760.15
45.0	9905.39	10076.43	10235.92	10390.26	10533.79	10655.09	10776.80	10893.42	10997.84	11083.39
47.5	8395.75	8506.97	8668.61	8840.84	9056.46	9241.38	9416.49	9574.86	9712.35	9823.44
50.0	7110.01	7331.93	7548.25	7750.97	7943.34	8109.77	8259.78	8397.54	8518.08	8614.78
52.5	6157.17	6346.36	6527.76	6699.87	6860.09	7002.17	7123.40	7235.36	7326.37	7408.14
55.0	5256.36	5408.48	5550.81	5684.71	5806.31	5914.69	6004.53	6085.80	6157.15	6214.27
57.5	4396.95	4504.77	4614.85	4703.79	4781.33	4849.10	4903.21	4949.33	4989.35	5021.60
60.0	3603.28	3665.17	3715.88	3755.26	3784.41	3805.70	3816.15	3825.70	3830.42	3834.04
62.5	2842.57	2853.22	2874.36	2954.48	3030.50	3102.44	3168.64	3226.90	3277.71	3320.34
65.0	2343.68	2423.10	2495.39	2561.16	2625.77	2686.46	2741.86	2791.21	2834.28	2870.37
67.5	2005.07	2064.25	2126.84	2175.97	2227.59	2275.89	2319.60	2358.66	2392.70	2420.20
70.0	1674.04	1722.67	1767.47	1798.59	1835.62	1870.18	1901.30	1928.89	1953.06	1973.86
72.5	1352.27	1385.79	1414.93	1429.55	1449.07	1469.02	1486.37	1500.08	1515.10	1526.97
75.0	1040.20	1056.20	1068.96	1066.87	1067.00	1071.70	1074.39	1076.23	1078.55	1080.97
77.5	698.94	680.02	661.01	634.89	611.41	595.61	580.99	568.48	558.70	551.39

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80.0	240.36	208.58	177.45	146.23	116.88	91.45	68.45	48.33	31.40	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
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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	25682.50	25688.10	25693.30	25694.07	25694.44	25694.41	25693.97	25693.13	25691.89	25690.24
5.0	25884.50	25894.39	25904.30	25906.31	25908.32	25910.32	25912.31	25903.57	25894.28	25885.62
7.5	26083.52	26099.99	26115.31	26117.83	26119.15	26119.27	26110.28	26099.52	26087.65	26066.38
10.0	26287.53	26306.90	26326.31	26330.59	26334.87	26331.09	26311.20	26291.74	26261.82	26230.63
12.5	26483.03	26512.36	26537.31	26541.85	26543.60	26528.15	26507.00	26471.29	26428.28	26375.45
15.0	26682.51	26719.89	26748.31	26755.11	26753.79	26732.35	26693.75	26645.27	26583.62	26504.15
17.5	25789.86	25821.15	25848.56	25862.94	25874.83	25882.79	25885.39	25879.67	25869.15	25856.17
20.0	24852.62	24911.22	24948.81	24959.75	24951.63	24977.88	24971.26	24957.38	24944.73	24905.61
22.5	23959.59	24012.00	24049.06	24069.33	24079.26	24074.09	24058.61	24028.58	23989.68	23940.51
25.0	23021.43	23101.19	23149.31	23164.40	23148.72	23167.16	23140.77	23096.47	23040.47	22969.13
27.5	22134.93	22202.43	22249.56	22272.37	22276.08	22257.96	22218.93	22161.48	22086.89	21991.46
30.0	21184.99	21287.84	21349.81	21365.22	21340.39	21350.03	21299.27	21223.94	21124.83	21003.84
32.5	19562.15	19619.82	19667.29	19696.87	19717.02	19728.40	19714.87	19698.13	19668.40	19623.95
35.0	17878.63	17919.52	17984.77	17995.17	18030.61	18030.33	18015.22	17990.65	17946.27	17893.37
37.5	16196.59	16254.38	16302.25	16327.82	16346.00	16336.52	16326.00	16282.26	16245.34	16167.46
40.0	14514.10	14554.76	14619.73	14624.93	14654.64	14644.90	14619.47	14582.08	14521.78	14453.22
42.5	12834.17	12891.87	12937.21	12958.07	12966.38	12959.43	12926.03	12881.36	12834.20	12747.11
45.0	11156.69	11193.36	11254.69	11254.56	11278.94	11263.12	11242.23	11188.64	11128.07	11054.49
47.5	9914.10	9977.80	10021.47	10034.36	10026.51	9988.78	9931.01	9844.27	9736.13	9597.03
50.0	8694.20	8733.61	8788.25	8787.61	8795.42	8763.87	8714.97	8639.55	8545.13	8423.75
52.5	7475.35	7522.17	7555.03	7567.48	7565.75	7542.93	7506.32	7446.88	7371.71	7272.94
55.0	6261.66	6283.50	6321.81	6321.79	6339.39	6324.74	6302.66	6263.94	6212.25	6143.46
57.5	5048.75	5070.19	5088.58	5100.45	5108.60	5110.12	5105.66	5091.62	5068.25	5034.27
60.0	3792.90	3833.58	3855.36	3855.67	3836.22	3899.19	3915.70	3929.90	3940.15	3950.58
62.5	3354.07	3378.83	3394.44	3398.77	3393.29	3377.61	3350.90	3316.57	3266.61	3210.45
65.0	2883.66	2916.16	2933.51	2933.73	2918.07	2920.80	2899.86	2867.10	2827.03	2779.42
67.5	2444.20	2461.37	2472.59	2476.45	2473.89	2464.79	2447.27	2422.96	2391.25	2353.12
70.0	1977.46	1999.73	2011.66	2012.14	2001.83	2009.96	1997.76	1981.17	1960.78	1931.18
72.5	1536.62	1544.67	1550.74	1554.35	1555.76	1554.55	1549.64	1541.44	1529.04	1513.33
75.0	1073.63	1084.05	1089.81	1090.85	1087.06	1100.37	1102.69	1104.11	1102.01	1098.95
77.5	546.62	544.48	544.91	547.94	553.52	561.37	571.27	582.64	595.41	610.13
80.0	0.00	0.00	0.00	0.00	0.00	0.00	32.11	49.53	70.15	93.58
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
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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	25688.20	25685.77	25682.45	25675.79	25669.76	25663.42	25656.78	25649.86	25642.67	25635.22
5.0	25876.24	25866.17	25851.75	25833.88	25815.52	25796.70	25777.46	25759.90	25732.34	25707.77
7.5	26042.06	26016.87	25986.57	25952.04	25916.95	25883.03	25835.43	25790.16	25744.90	25706.25
10.0	26187.48	26143.16	26090.80	26031.42	25971.61	25901.77	25831.43	25770.68	25679.31	25600.27
12.5	26312.84	26240.03	26159.82	26072.53	25978.29	25876.11	25770.89	25660.09	25546.53	25424.01

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CANDELA TABULATION - (Cont.)

15.0	26426.73	26312.84	26199.88	26076.51	25941.35	25803.30	25650.00	25513.21	25333.25	25190.80
17.5	25841.36	25818.22	25795.37	25773.89	25745.38	25674.02	25477.44	25268.51	25057.72	24840.25
20.0	24867.19	24824.02	24777.60	24750.85	24675.84	24621.42	24569.81	24528.88	24475.28	24434.82
22.5	23880.93	23813.32	23739.27	23660.18	23587.87	23491.11	23404.27	23319.48	23237.88	23160.15
25.0	22884.13	22788.70	22683.59	22571.01	22451.01	22328.87	22214.62	22074.58	21946.33	21822.11
27.5	21899.92	21752.26	21613.21	21460.69	21301.44	21133.77	20961.20	20786.96	20613.00	20442.29
30.0	20863.98	20716.86	20526.12	20334.08	20128.24	19914.45	19694.09	19470.33	19243.42	19023.09
32.5	19571.34	19505.48	19429.10	19189.80	18938.77	18676.78	18407.28	18171.62	17853.57	17574.33
35.0	17825.51	17741.76	17656.77	17536.96	17416.69	17285.90	17100.46	16773.81	16443.85	16117.98
37.5	16093.95	15991.35	15884.73	15761.00	15624.36	15511.81	15311.66	15137.24	14970.71	14666.88
40.0	14362.89	14260.61	14145.83	14014.27	13868.24	13712.45	13539.00	13372.38	13159.45	12949.26
42.5	12653.79	12555.67	12435.01	12304.90	12161.16	12004.18	11835.47	11653.38	11455.52	11251.62
45.0	10965.82	10869.90	10758.49	10653.84	10506.29	10362.32	10208.63	10039.65	9876.56	9664.64
47.5	9440.94	9259.44	9119.68	9017.71	8909.07	8793.53	8672.45	8528.58	8374.77	8202.71
50.0	8289.10	8136.13	7946.04	7752.26	7542.44	7325.32	7228.66	7118.93	7006.94	6874.41
52.5	7160.72	7026.50	6874.83	6709.50	6532.07	6343.69	6169.39	5951.64	5744.42	5685.63
55.0	6060.51	5960.05	5844.43	5713.40	5572.62	5419.21	5266.62	5099.66	4932.85	4770.43
57.5	4987.27	4925.64	4851.85	4763.67	4663.92	4555.16	4433.82	4308.58	4179.21	4044.61
60.0	3939.27	3922.77	3894.44	3854.28	3800.84	3737.35	3662.58	3576.90	3485.32	3382.70
62.5	3146.73	3075.37	2997.37	2984.07	2982.54	2968.02	2940.49	2898.66	2843.73	2778.13
65.0	2727.96	2663.36	2595.67	2525.38	2452.34	2377.46	2301.81	2266.46	2252.18	2222.31
67.5	2308.93	2258.94	2204.52	2142.60	2086.41	2024.74	1960.63	1895.01	1826.73	1756.29
70.0	1898.94	1864.86	1821.38	1777.41	1732.53	1683.72	1633.55	1580.82	1526.03	1469.45
72.5	1495.21	1471.18	1445.73	1416.95	1385.33	1353.09	1318.15	1280.44	1239.98	1197.97
75.0	1093.77	1086.01	1078.57	1063.87	1048.67	1031.74	1013.01	991.97	967.02	939.98
77.5	624.60	640.44	657.11	673.60	689.70	706.14	717.65	712.15	704.69	693.62
80.0	119.37	147.11	176.36	206.75	237.17	268.13	299.29	330.08	360.11	388.93
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.89
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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	25627.53	25619.61	25611.48	25603.15	25595.44	25582.42	25571.74	25561.06	25550.41	25539.81
5.0	25683.10	25658.38	25633.65	25608.96	25591.49	25552.68	25524.60	25497.03	25470.02	25443.63
7.5	25646.35	25595.17	25544.61	25494.78	25441.95	25388.86	25337.16	25286.94	25238.30	25191.34
10.0	25531.15	25435.89	25352.66	25271.31	25186.45	25101.69	25019.75	24940.76	24877.16	24786.50
12.5	25303.63	25180.95	25056.34	24935.18	24811.66	24689.37	24571.73	24478.10	24343.48	24235.54
15.0	25000.63	24834.58	24661.73	24494.33	24325.80	24159.50	23999.95	23840.84	23688.63	23544.79
17.5	24620.25	24398.56	24175.08	23954.12	23732.89	23514.55	23342.62	23094.53	22897.13	22708.49
20.0	24167.43	23879.72	23595.22	23309.92	23029.03	22754.32	22486.25	22225.89	22006.97	21737.11
22.5	23082.86	23015.84	22953.74	22572.21	22225.28	21884.10	21553.14	21237.33	20936.03	20639.48
25.0	21704.92	21596.60	21494.92	21406.90	21326.38	20914.46	20509.99	20133.49	19756.50	19413.85
27.5	20303.30	20119.57	19968.70	19829.15	19706.26	19605.63	19365.85	18913.94	18484.55	18077.05
30.0	18803.72	18590.77	18390.33	18203.74	18032.19	17882.29	17742.92	17613.28	17119.95	16652.03
32.5	17303.69	17041.26	16789.77	16552.37	16326.34	16130.23	15944.91	15784.04	15654.09	15165.29
35.0	15797.74	15497.94	15220.21	14944.17	14645.83	14376.73	14153.73	13954.40	13787.47	13659.34
37.5	14299.71	13945.46	13604.23	13273.37	12962.56	12672.14	12413.70	12188.38	11989.92	11821.34
40.0	12753.84	12446.80	12064.63	11699.74	11359.70	11058.11	10777.33	10519.09	10293.69	10099.68
42.5	11029.31	10789.19	10539.48	10218.18	9880.06	9553.45	9257.95	8989.50	8746.94	8538.97
45.0	9448.17	9217.32	8991.01	8760.58	8512.67	8194.70	7898.76	7633.94	7393.89	7182.88
47.5	8011.13	7816.86	7609.36	7392.78	7180.77	6981.59	6726.62	6468.35	6234.81	6032.79
50.0	6730.30	6568.51	6388.74	6205.58	6023.28	5849.16	5684.07	5479.88	5259.90	5079.04

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CANDELA TABULATION - (Cont.)

52.5	5590.41	5467.19	5319.11	5180.84	5028.41	4875.33	4734.91	4600.43	4435.16	4247.41
55.0	4603.17	4508.83	4408.41	4295.85	4172.84	4049.10	3924.85	3809.39	3699.88	3560.72
57.5	3907.88	3765.39	3623.99	3533.47	3441.86	3342.06	3239.28	3139.65	3040.79	2953.97
60.0	3274.22	3159.77	3042.94	2925.87	2815.05	2740.90	2659.96	2573.53	2490.30	2413.20
62.5	2699.91	2615.02	2524.87	2430.68	2337.86	2245.60	2169.16	2098.53	2029.37	1964.58
65.0	2179.86	2125.27	2062.40	1994.12	1921.69	1847.04	1771.15	1700.57	1641.34	1583.13
67.5	1705.92	1684.07	1653.44	1606.04	1555.20	1498.39	1439.22	1383.08	1319.24	1269.10
70.0	1411.39	1353.38	1297.34	1261.04	1231.53	1193.75	1155.52	1106.77	1056.76	1008.79
72.5	1153.82	1107.44	1063.63	1017.50	968.37	929.55	907.27	869.90	831.17	791.56
75.0	913.75	879.40	850.78	816.02	775.59	745.00	704.75	664.06	642.15	608.00
77.5	680.08	664.46	651.62	627.44	601.57	577.43	545.24	513.04	482.76	452.70
80.0	416.49	445.33	462.86	452.46	438.63	421.65	400.58	378.49	356.47	335.29
82.5	56.18	97.82	138.37	174.92	207.87	236.36	260.21	255.86	242.54	229.23
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.54	65.84	93.58
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>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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	25529.26	25518.80	25508.45	25498.22	25488.13	25478.20	25468.45	25458.91	25449.58	25395.31
5.0	25417.88	25392.85	25368.57	25345.09	25322.46	25300.71	25279.88	25260.02	25241.16	25133.35
7.5	25153.62	25098.78	25054.91	25013.40	24974.33	24937.77	24903.77	24872.41	24843.72	24683.63
10.0	24713.35	24644.20	24579.17	24518.37	24461.92	24409.90	24362.40	24319.50	24281.27	24070.58
12.5	24133.63	24037.95	23969.09	23860.09	23780.87	23709.19	23645.20	23589.00	23540.71	23281.75
15.0	23436.71	23274.28	23151.35	23038.70	22936.54	22845.08	22764.49	22694.93	22636.52	22331.79
17.5	22528.52	22361.74	22208.46	22100.25	21936.75	21821.83	21722.31	21638.34	21570.09	21223.72
20.0	21512.47	21323.57	21111.47	20937.17	20781.92	20645.93	20529.42	20432.51	20355.29	19971.57
22.5	20410.16	20108.17	19872.97	19661.66	19473.63	19310.27	19172.30	19059.89	18973.14	18561.06
25.0	19086.14	18785.93	18570.47	18264.19	18045.94	17858.17	17701.26	17575.45	17480.93	17048.91
27.5	17694.15	17344.68	17029.46	16748.94	16534.67	16290.18	16115.04	15977.37	15876.98	15435.50
30.0	16238.05	15825.24	15470.20	15157.46	14886.49	14657.23	14469.97	14324.84	14221.81	13781.06
32.5	14690.87	14256.69	13871.12	13532.96	13240.85	12996.68	12799.94	12650.03	12546.43	12118.97
35.0	13148.20	12687.27	12277.25	11955.22	11613.44	11359.55	11156.81	11005.04	10903.78	10503.25
37.5	11617.95	11137.13	10723.01	10351.18	10045.36	9795.21	9599.38	9456.17	9364.72	8999.67
40.0	9937.11	9650.11	9230.24	8871.80	8575.38	8335.35	8148.52	8014.44	7932.28	7611.35
42.5	8363.44	8220.40	7880.39	7541.61	7262.87	7062.62	6870.34	6751.30	6679.70	6400.16
45.0	7005.46	6863.82	6737.58	6387.92	6127.94	5923.75	5767.22	5657.06	5593.48	5352.88
47.5	5860.92	5718.41	5610.95	5403.69	5153.82	4964.23	4826.25	4730.87	4676.77	4468.71
50.0	4909.78	4755.31	4649.58	4538.82	4319.12	4149.24	4021.15	3934.08	3887.29	3710.12
52.5	4086.31	3950.34	3845.40	3764.71	3606.55	3450.25	3337.30	3262.64	3223.36	3071.39
55.0	3403.18	3273.61	3168.99	3092.48	3002.71	2861.92	2759.22	2691.32	2657.73	2528.96
57.5	2835.71	2711.60	2609.57	2533.50	2484.54	2363.84	2271.01	2212.49	2184.39	2074.27
60.0	2346.56	2241.08	2143.39	2068.67	2018.82	1943.36	1859.82	1805.44	1780.43	1688.28
62.5	1900.31	1848.55	1754.10	1681.16	1630.93	1588.32	1522.36	1464.84	1444.56	1366.24
65.0	1529.11	1480.75	1441.23	1360.53	1309.20	1279.25	1219.13	1176.07	1158.39	1092.89
67.5	1220.80	1176.78	1140.30	1093.82	1046.44	1013.77	970.83	934.25	922.32	863.91
70.0	964.14	922.91	892.31	877.03	827.91	787.98	759.39	728.45	721.08	671.21
72.5	750.34	714.82	689.13	667.33	644.41	604.95	582.32	555.51	548.99	510.50
75.0	576.45	545.30	518.52	504.45	487.36	459.75	440.84	421.05	408.20	381.73
77.5	432.31	407.79	391.20	374.49	355.00	340.25	319.20	303.18	289.26	267.85
80.0	314.05	293.02	278.04	262.12	246.94	230.58	216.79	205.10	190.65	175.47
82.5	214.79	199.29	183.38	168.40	156.74	146.12	134.66	127.30	115.33	104.64
85.0	116.37	118.31	109.35	99.50	89.54	79.78	71.71	65.95	59.74	51.93
87.5	0.00	0.00	0.00	16.88	37.23	37.70	27.64	19.82	20.30	13.22

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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	6.67	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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	25341.38	25287.89	25234.95	25182.64	25131.07	25080.34	25030.54	24981.76	24934.10	24887.66
5.0	25026.78	24921.63	24818.10	24716.38	24616.66	24519.11	24423.91	24331.24	24241.27	24154.16
7.5	24526.55	24372.77	24222.55	24076.16	23933.85	23795.89	23670.87	23532.11	23405.34	23283.53
10.0	23864.96	23664.77	23470.33	23281.96	23099.98	22924.69	22756.36	22595.27	22454.48	22292.20
12.5	23031.16	22789.29	22556.48	22333.06	22140.72	21913.07	21714.57	21526.02	21347.70	21198.98
15.0	22038.68	21757.56	21488.75	21232.54	20989.23	20759.05	20569.62	20334.51	20137.91	19954.79
17.5	20893.45	20579.55	20282.22	20033.15	19734.65	19481.74	19245.18	19025.11	18818.59	18626.30
20.0	19607.75	19263.93	18940.21	18636.61	18353.13	18106.86	17844.25	17618.06	17436.12	17217.31
22.5	18174.41	17812.85	17476.01	17163.18	16873.35	16606.79	16400.17	16135.43	15927.70	15737.68
25.0	16647.37	16275.34	15931.81	15615.72	15375.90	15058.36	14813.93	14593.05	14389.12	14214.97
27.5	15029.51	14657.43	14345.66	14006.53	13723.64	13467.86	13272.74	13029.50	12840.96	12670.22
30.0	13379.70	13015.12	12684.65	12385.61	12116.42	11876.72	11675.32	11469.82	11298.69	11144.73
32.5	11733.52	11386.41	11074.65	10797.50	10548.77	10327.21	10131.81	9954.68	9815.33	9634.51
35.0	10147.53	9831.49	9549.98	9325.82	9075.04	8874.22	8692.18	8525.73	8380.12	8242.11
37.5	8679.01	8396.43	8146.21	7922.77	7727.19	7543.73	7380.88	7241.76	7113.02	6986.43
40.0	7334.18	7093.61	6882.54	6695.57	6527.75	6373.79	6237.89	6111.40	5991.06	5874.76
42.5	6160.39	5973.78	5779.41	5626.14	5489.24	5361.01	5242.61	5129.23	5018.38	4909.51
45.0	5150.95	4981.04	4836.58	4712.88	4621.90	4488.70	4381.84	4279.35	4177.51	4074.07
47.5	4294.90	4149.62	4031.44	3939.03	3834.74	3735.03	3644.01	3549.71	3455.58	3354.65
50.0	3565.64	3447.30	3349.04	3269.97	3179.46	3092.50	3017.63	2933.51	2839.65	2741.35
52.5	2948.38	2850.14	2773.02	2702.53	2624.20	2546.26	2473.69	2399.00	2316.17	2253.05
55.0	2427.81	2348.44	2287.50	2218.73	2148.12	2082.85	2018.61	1950.93	1896.23	1865.90
57.5	1988.78	1925.18	1876.05	1808.96	1749.30	1693.26	1635.41	1584.36	1553.72	1522.41
60.0	1619.66	1568.94	1520.32	1464.07	1413.86	1364.94	1317.75	1285.89	1253.71	1219.00
62.5	1317.98	1270.67	1222.95	1174.82	1132.83	1090.85	1058.50	1027.93	991.78	952.76
65.0	1047.86	1015.46	973.38	939.77	910.49	866.22	834.85	801.29	763.48	719.71
67.5	824.83	795.04	762.55	734.91	709.40	682.97	643.94	607.11	573.18	566.33
70.0	639.34	610.94	586.94	565.17	541.34	516.59	488.08	454.49	443.19	431.87
72.5	485.52	461.42	444.55	422.91	400.13	376.00	358.55	345.43	326.40	311.16
75.0	363.35	339.61	323.67	302.76	281.36	267.83	255.57	240.48	223.16	201.46
77.5	249.99	233.74	218.84	201.14	190.59	178.79	164.00	145.36	143.52	141.60
80.0	159.44	147.02	134.10	126.17	115.63	100.72	97.50	94.89	91.33	86.94
82.5	91.56	81.76	75.44	65.19	60.14	57.51	53.75	48.81	42.62	35.35
85.0	45.14	39.44	33.86	29.14	24.86	19.86	14.76	11.44	7.72	3.79
87.5	11.87	10.54	5.29	2.36	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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	24842.50	24798.73	24758.72	24715.13	24673.83	24634.11	24596.06	24559.74	24525.23	24492.58
5.0	24070.07	23989.15	23921.28	23836.38	23761.76	23690.71	23623.35	23559.81	23500.20	23447.64
7.5	23166.93	23055.72	22950.12	22848.81	22749.48	22696.85	22568.44	22494.59	22406.50	22330.41
10.0	22167.46	22013.00	21885.14	21763.39	21645.34	21535.64	21443.74	21336.03	21245.04	21173.10
12.5	21018.34	20865.89	20724.24	20590.56	20461.93	20344.27	20232.20	20125.72	20030.04	19936.94
15.0	19784.24	19620.72	19470.66	19330.38	19197.31	19078.00	18962.98	18878.64	18763.55	18690.89
17.5	18484.88	18285.15	18134.10	17994.66	17865.08	17747.41	17638.30	17538.57	17448.07	17365.23
20.0	17041.17	16877.96	16727.13	16591.31	16470.16	16360.04	16264.39	16183.62	16019.12	15881.14
22.5	15562.02	15405.90	15267.22	15143.43	15052.61	14866.21	14699.65	14544.67	14394.04	14251.18

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CANDELA TABULATION - (Cont.)

25.0	14046.20	13903.93	13773.99	13591.44	13416.25	13250.30	13090.51	12935.27	12785.39	12644.23
27.5	12517.76	12351.11	12170.53	11999.78	11835.16	11673.22	11531.24	11360.50	11212.41	11065.82
30.0	10971.11	10802.05	10633.75	10470.75	10309.95	10151.87	9996.41	9839.26	9682.87	9531.18
32.5	9483.22	9332.62	9209.31	9026.75	8868.78	8709.74	8547.77	8385.34	8220.32	8071.81
35.0	8105.82	7964.12	7834.52	7700.38	7541.95	7365.24	7187.86	7011.54	6828.60	6642.99
37.5	6858.57	6729.89	6595.39	6458.83	6288.10	6114.20	5927.51	5728.52	5625.71	5611.10
40.0	5757.19	5632.13	5494.39	5343.49	5173.39	4984.01	4900.38	4879.80	4864.03	4853.27
42.5	4792.99	4668.29	4528.89	4368.65	4249.86	4229.59	4207.09	4182.83	4170.81	4126.71
45.0	3959.77	3833.59	3687.85	3651.33	3627.14	3600.24	3569.71	3533.99	3497.81	3449.60
47.5	3242.46	3138.68	3113.93	3087.68	3064.70	3021.53	2980.01	2932.03	2876.41	2813.91
50.0	2665.35	2638.19	2610.04	2576.82	2538.06	2492.24	2437.42	2373.82	2301.02	2218.66
52.5	2223.94	2192.05	2157.12	2117.17	2067.47	2008.89	1939.97	1858.47	1765.79	1762.82
55.0	1831.86	1795.46	1752.99	1702.66	1642.44	1569.54	1503.91	1504.30	1502.39	1499.83
57.5	1485.93	1442.99	1392.47	1331.77	1271.89	1270.70	1267.53	1262.77	1255.87	1246.89
60.0	1179.35	1130.33	1070.75	1061.55	1057.79	1051.98	1044.19	1033.68	1020.82	1004.70
62.5	907.68	877.51	872.67	865.89	857.41	846.55	832.92	816.08	795.87	772.39
65.0	710.13	704.55	695.96	684.45	670.24	653.19	632.75	608.88	580.88	548.95
67.5	557.13	546.71	533.33	516.05	496.03	470.98	443.00	433.80	434.39	433.49
70.0	418.66	402.93	383.17	359.10	342.80	343.29	343.74	343.31	341.89	339.10
72.5	293.09	271.32	265.08	264.23	263.06	261.18	258.89	255.72	251.72	246.65
75.0	199.20	197.63	195.10	191.68	187.32	182.48	177.43	171.41	163.69	156.01
77.5	138.19	133.96	128.64	122.11	114.71	106.69	97.56	87.87	77.48	66.68
80.0	80.87	73.57	65.07	55.31	44.52	37.33	33.93	30.71	27.60	24.68
82.5	27.57	23.63	19.68	15.75	11.93	8.21	4.60	1.10	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>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	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	24461.87	24433.14	24406.46	24381.87	24360.34	24338.03	24317.35	24298.88	24282.66	24268.72
5.0	23389.76	23337.91	23290.27	23246.92	23207.95	23170.79	23134.75	23103.22	23076.23	23055.14
7.5	22260.63	22199.40	22133.67	22076.05	22025.10	21977.40	21932.22	21893.86	21860.56	21827.10
10.0	21081.77	21007.55	20941.66	20874.40	20816.03	20762.12	20712.27	20671.39	20629.15	20596.06
12.5	19855.05	19777.68	19708.82	19643.86	19584.02	19528.49	19477.15	19431.42	19391.84	19355.62
15.0	18590.43	18514.90	18443.67	18383.33	18327.84	18276.78	18239.62	18183.77	18144.89	18110.87
17.5	17293.94	17224.75	17119.63	17007.20	16904.32	16812.91	16732.18	16653.86	16581.67	16520.14
20.0	15737.91	15610.42	15493.04	15397.50	15271.99	15174.48	15089.01	15013.16	14948.68	14874.87
22.5	14115.65	13987.04	13872.17	13751.97	13644.84	13542.59	13450.27	13369.53	13296.81	13230.32
25.0	12514.96	12377.03	12251.08	12132.59	12022.31	11918.58	11820.10	11732.82	11655.93	11586.48
27.5	10924.74	10788.62	10657.85	10532.19	10414.15	10304.16	10211.37	10104.42	10020.55	9945.15
30.0	9382.13	9235.53	9093.66	8957.01	8826.40	8709.92	8591.30	8484.70	8390.75	8308.46
32.5	7887.33	7725.73	7567.09	7412.80	7266.55	7262.42	7259.15	7252.16	7244.49	7235.90
35.0	6453.50	6410.42	6408.74	6405.43	6402.10	6390.02	6380.77	6370.37	6356.02	6344.27
37.5	5602.62	5603.59	5579.07	5567.19	5553.24	5534.92	5517.82	5497.33	5481.14	5456.41
40.0	4828.58	4807.16	4781.55	4756.15	4728.94	4698.92	4667.53	4636.81	4605.32	4575.80
42.5	4094.60	4058.13	4017.30	3973.60	3929.09	3883.14	3835.01	3787.90	3746.42	3700.90
45.0	3399.66	3344.92	3285.41	3224.34	3154.41	3086.94	3019.54	2952.81	2890.43	2833.37
47.5	2746.26	2668.14	2585.19	2496.62	2405.05	2355.02	2358.33	2360.87	2362.99	2363.84
50.0	2130.26	2045.88	2047.40	2048.57	2048.10	2050.03	2048.04	2047.28	2046.05	2044.65
52.5	1766.59	1762.88	1760.12	1756.43	1751.38	1746.71	1741.74	1736.81	1731.69	1727.16
55.0	1495.79	1488.38	1480.61	1470.91	1460.61	1449.79	1439.37	1429.21	1419.48	1411.09
57.5	1235.90	1223.00	1208.51	1192.13	1175.31	1157.58	1140.83	1124.60	1109.47	1096.53
60.0	986.62	965.87	943.36	919.60	894.96	870.02	845.93	823.78	801.58	783.43

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CANDELA TABULATION - (Cont.)

62.5	745.85	716.70	685.31	652.96	628.01	627.20	626.41	625.78	625.27	626.05
65.0	529.49	528.49	526.75	525.11	523.27	521.57	520.09	518.10	516.73	516.15
67.5	431.55	429.00	425.91	422.79	419.68	416.68	413.65	410.92	408.54	406.91
70.0	335.37	331.00	326.46	321.52	316.95	312.80	308.16	304.18	300.87	297.93
72.5	240.81	234.34	227.78	221.22	214.98	208.90	203.25	197.83	193.07	189.19
75.0	147.62	138.87	130.18	121.72	113.77	105.84	98.57	91.80	85.70	80.67
77.5	55.69	50.26	48.03	46.06	44.20	42.43	40.79	39.26	37.84	36.78
80.0	21.88	19.14	16.56	14.16	11.88	9.76	7.80	6.03	4.46	3.13
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>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	25482.30	25482.30	25482.30	25482.30	25482.30
2.5	24257.09	24247.78	24240.81	24236.21	24233.97
5.0	23032.60	23013.83	22999.73	22990.33	22985.64
7.5	21800.57	21780.37	21759.01	21744.64	21737.30
10.0	20564.97	20539.00	20518.61	20499.15	20488.97
12.5	19325.33	19296.96	19277.38	19253.83	19240.64
15.0	18079.55	18054.82	18030.08	18008.67	17992.31
17.5	16470.73	16424.70	16388.28	16360.55	16340.47
20.0	14819.67	14774.40	14737.91	14709.74	14688.64
22.5	13171.99	13125.21	13087.80	13058.45	13036.80
25.0	11524.84	11474.65	11435.94	11406.26	11384.96
27.5	9879.09	9824.36	9783.20	9752.41	9733.12
30.0	8237.25	8176.57	8131.21	8099.23	8081.29
32.5	7225.11	7215.40	7202.76	7192.17	7181.92
35.0	6330.15	6316.24	6303.54	6292.27	6282.56
37.5	5441.35	5420.18	5405.59	5392.38	5383.19
40.0	4549.35	4526.32	4506.35	4492.51	4483.82
42.5	3664.47	3635.45	3608.93	3592.66	3584.45
45.0	2784.61	2743.70	2712.48	2692.82	2685.09
47.5	2363.96	2364.94	2364.19	2363.04	2361.90
50.0	2043.07	2042.49	2041.07	2039.58	2038.72
52.5	1723.21	1720.58	1718.09	1716.14	1715.54
55.0	1404.16	1399.02	1395.63	1392.82	1392.35
57.5	1085.99	1077.98	1072.34	1069.25	1069.16
60.0	768.69	757.52	749.76	745.87	745.98
62.5	626.82	628.41	629.90	631.51	633.28
65.0	516.58	517.21	518.08	519.18	520.58
67.5	406.14	406.13	406.32	406.87	407.89
70.0	296.12	295.23	294.62	294.59	295.19
72.5	186.27	184.27	182.97	182.33	182.49
75.0	76.57	73.50	71.37	70.08	69.79
77.5	35.99	35.44	35.10	34.89	34.90
80.0	2.02	1.15	0.52	0.13	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	8422.01	25.70	25.80
0-30	16153.61	49.40	49.40
0-40	23109.56	70.60	70.70
0-60	30737.41	93.90	94.00
0-80	32664.08	99.80	99.90
0-90	32705.61	99.90	100.00
10-90	30391.69	92.90	92.90
20-40	14687.54	44.90	44.90
20-50	19503.8	59.60	59.60
40-70	9015.82	27.50	27.60
60-80	1926.68	5.90	5.90
70-80	538.71	1.60	1.60
80-90	41.52	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	32705.61	99.90	100.00

Total Luminaire Efficiency = 99.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2313.91
10-20	6108.1
20-30	7731.6
30-40	6955.95
40-50	4816.26
50-60	2811.59
60-70	1387.96
70-80	538.71
80-90	41.52
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

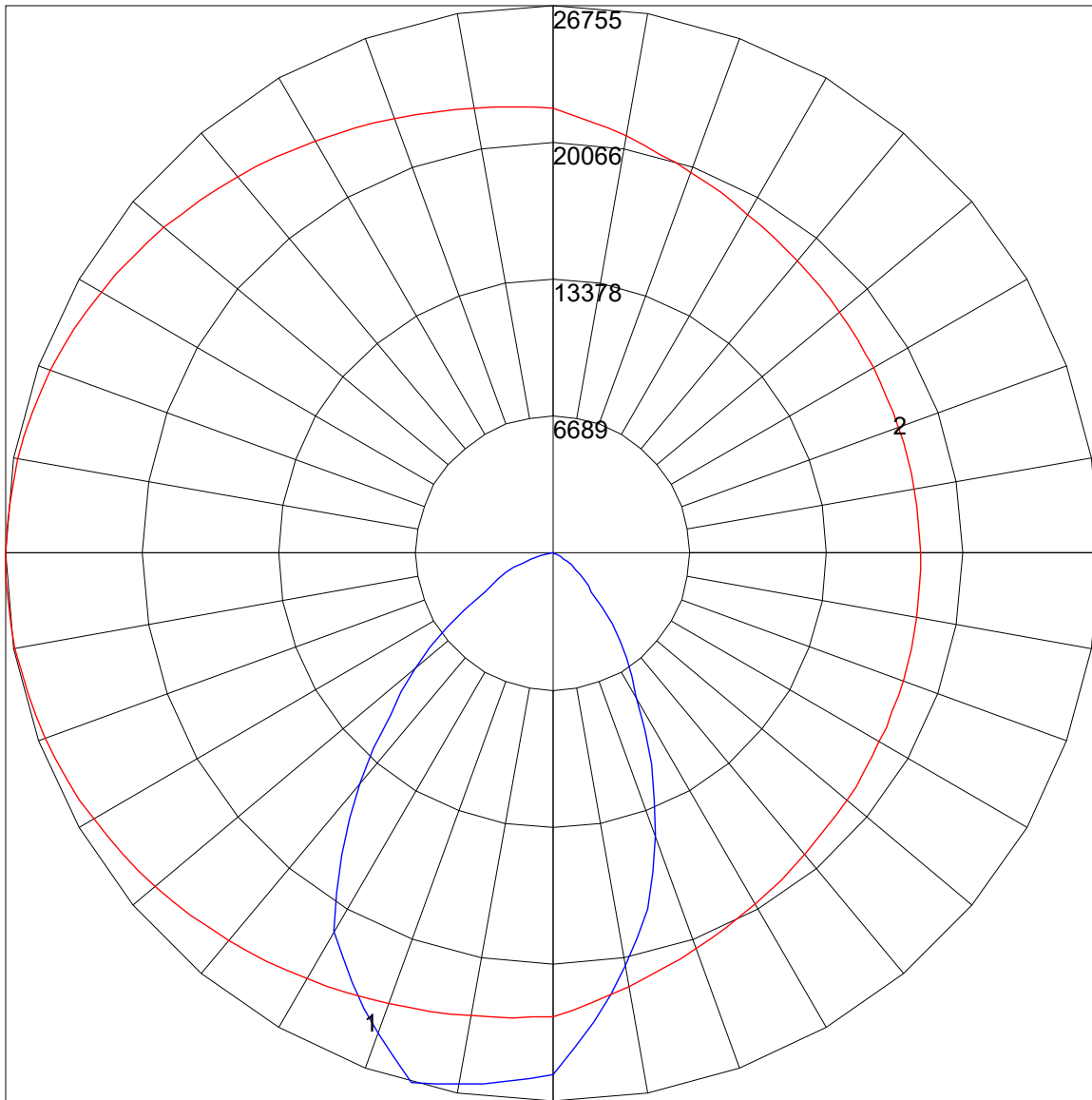
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	50	44	40	49	44	40	39

POLAR GRAPH



Maximum Candela = 26755.11 Located At Horizontal Angle = 182.5, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (182.5 - 2.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)