

IES INDOOR REPORT

PHOTOMETRIC FILENAME : C65-1-LSCS-ED-1-PCMD_4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 70.402.24.061.69-03

[TESTLAB] Bay Area Compliance Labs Corp. (FOR CURRENT)

[TESTDATE] 2025-3-3

[ISSUEDATE] 2013-01-05 03:38:58

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] COLUMBIA LIGHTING

[LUMCAT] C65-1-LSSC-ED-1-PCMD_4000K

[LUMINAIRE] C65-LSCS Linear High Bay, Size 1, Switchable Lumen & CCT, 120-277V

[BALLASTCAT] LF-FCA200

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor Ambient Direct

[_SEARCH_MOUNTING] Surface, Suspended

[_SEARCH_COLOR TEMP] 4000K

[_SEARCH_CRI] 80

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
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[OTHER]	0- 10	983.32	983.32	4.25	4.25
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[OTHER]	10- 20	2844.40	3827.72	16.54	16.54
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[OTHER]	20- 30	4354.66	8182.37	35.36	35.36
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[OTHER]	30- 40	5060.14	13242.52	57.22	57.22
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[OTHER]	40- 50	4502.58	17745.10	76.68	76.68
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[OTHER]	50- 60	3040.22	20785.32	89.81	89.81
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[OTHER]	60- 70	1594.08	22379.40	96.70	96.70
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[OTHER]	70- 80	640.63	23020.02	99.47	99.47
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[OTHER]	80- 90	107.72	23127.74	99.93	99.93
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[OTHER]	90-100	0.53	23128.27	99.94	99.94
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[OTHER]	100-110	0.75	23129.02	99.94	99.94
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[OTHER]	110-120	1.31	23130.33	99.94	99.94
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[OTHER]	120-130	2.14	23132.47	99.95	99.95
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[OTHER]	130-140	2.81	23135.28	99.97	99.97
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[OTHER]	140-150	3.01	23138.28	99.98	99.98
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[OTHER]	150-160	2.68	23140.97	99.99	99.99
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[OTHER]	160-170	1.71	23142.67	100.00	100.00
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[OTHER]	170-180	0.50	23143.17	100.00	100.00
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[OTHER]

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CHARACTERISTICS

Lumens Per Lamp	23143 (1 lamp)
Total Lamp Lumens	23143
Luminaire Lumens	23144
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	158.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.26 m
Luminous Width (90-270)	0.43 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	71661	79187	62759
55	46163	62207	38055
65	27972	43301	21340
75	18572	24869	13372
85	8305	7462	4015

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	10376.40	10376.40	10376.40	10376.40	10376.40	10376.40	10376.40	10376.40	10376.40	10376.40
1	10401.50	10386.89	10371.60	10357.84	10343.31	10331.22	10323.71	10318.09	10317.91	10322.05
2	10426.16	10397.27	10366.00	10335.56	10307.43	10283.34	10266.28	10256.61	10256.58	10265.48
3	10450.96	10408.01	10359.44	10312.41	10267.12	10230.64	10203.57	10189.21	10190.57	10205.87
4	10475.48	10418.30	10351.53	10287.09	10225.94	10175.99	10138.29	10121.97	10123.63	10142.71
5	10498.95	10427.22	10343.45	10261.99	10187.04	10124.90	10078.83	10056.30	10056.78	10082.50
6	10522.09	10434.42	10333.90	10238.08	10148.71	10076.27	10022.01	9994.23	9994.14	10022.96
7	10543.34	10441.77	10324.12	10214.41	10114.31	10031.91	9969.68	9936.62	9933.93	9966.88
8	10563.52	10446.66	10314.44	10191.73	10081.90	9991.46	9921.66	9883.95	9879.62	9914.02
9	10580.33	10449.89	10304.83	10170.31	10053.10	9955.43	9877.42	9835.97	9829.32	9866.89
10	10595.15	10450.78	10292.67	10149.67	10026.04	9921.71	9837.99	9788.68	9779.42	9819.37
11	10606.55	10448.40	10278.11	10127.78	9999.26	9892.42	9800.10	9743.79	9732.96	9771.18
12	10610.60	10441.25	10260.54	10105.43	9974.49	9862.87	9763.29	9701.42	9687.47	9724.27
13	10607.50	10426.04	10237.13	10078.82	9947.82	9835.31	9729.57	9661.41	9642.88	9678.02
14	10594.86	10403.76	10209.26	10050.75	9921.47	9808.86	9697.61	9622.21	9598.16	9628.50
15	10574.61	10372.09	10173.46	10017.33	9895.21	9781.06	9666.59	9585.20	9552.94	9579.29
16	10545.03	10332.87	10129.41	9981.24	9865.55	9753.76	9635.29	9548.56	9509.24	9526.84
17	10508.95	10287.91	10078.03	9940.27	9834.18	9724.80	9601.97	9509.66	9464.23	9472.48
18	10464.39	10233.45	10019.43	9895.58	9799.16	9693.81	9567.70	9470.71	9419.41	9417.59
19	10414.18	10170.42	9954.93	9843.71	9760.44	9659.12	9529.13	9430.98	9369.86	9359.09
20	10356.32	10104.29	9884.59	9787.08	9717.46	9620.98	9487.48	9385.34	9317.83	9297.88
21	10293.97	10029.34	9808.00	9723.22	9670.36	9576.26	9441.96	9336.56	9262.68	9230.89
22	10221.55	9949.63	9727.67	9654.02	9617.23	9525.50	9387.45	9280.77	9203.18	9162.38
23	10143.43	9864.15	9641.71	9579.09	9556.88	9466.62	9322.70	9219.25	9137.88	9086.12
24	10059.66	9773.09	9550.84	9498.47	9490.77	9397.67	9250.36	9149.58	9067.36	9007.93
25	9966.30	9677.45	9459.19	9413.89	9416.22	9318.86	9165.84	9071.33	8991.89	8925.69
26	9866.39	9573.29	9358.98	9321.83	9331.11	9228.46	9070.70	8981.41	8907.10	8837.66
27	9753.55	9465.13	9256.49	9223.49	9237.74	9127.93	8961.14	8883.36	8814.96	8745.98
28	9629.09	9342.27	9147.31	9119.41	9132.87	9014.11	8841.73	8773.09	8716.83	8649.55
29	9493.05	9212.50	9033.82	9007.19	9018.57	8887.38	8702.93	8649.67	8608.79	8548.62
30	9344.14	9070.47	8913.55	8889.46	8892.33	8746.86	8555.43	8515.95	8491.43	8440.72
31	9180.70	8917.33	8784.45	8763.36	8755.17	8595.17	8388.22	8366.81	8364.35	8326.58
32	9002.56	8751.69	8649.44	8633.57	8607.62	8429.36	8213.03	8208.63	8230.31	8207.73
33	8813.65	8577.85	8501.96	8496.71	8451.64	8251.85	8022.60	8035.69	8084.93	8080.59
34	8607.27	8389.69	8347.18	8347.66	8279.48	8060.05	7819.86	7853.73	7932.19	7946.12
35	8388.33	8189.15	8182.92	8196.31	8104.51	7858.18	7604.46	7661.27	7771.39	7805.47
36	8156.63	7975.62	8009.63	8034.21	7917.37	7647.60	7378.43	7454.53	7602.36	7657.90
37	7910.93	7753.26	7827.98	7864.66	7718.33	7420.99	7138.43	7240.36	7424.35	7504.34
38	7658.48	7520.03	7635.72	7689.70	7513.91	7189.11	6893.70	7014.81	7237.18	7342.19
39	7388.88	7274.12	7431.01	7504.28	7302.95	6946.24	6636.43	6779.26	7043.54	7173.18
40	7115.06	7023.06	7221.47	7312.65	7081.59	6691.64	6370.68	6539.65	6844.87	6997.10
41	6835.03	6764.97	7004.25	7113.72	6854.39	6434.02	6098.60	6291.92	6639.36	6819.37
42	6547.52	6500.88	6779.20	6912.53	6622.44	6166.52	5821.10	6034.95	6426.95	6633.25
43	6258.91	6234.85	6551.14	6703.15	6386.23	5896.97	5537.47	5771.50	6204.36	6441.34
44	5965.55	5960.27	6314.12	6490.46	6145.74	5616.42	5255.20	5506.67	5984.22	6247.96
45	5676.10	5691.72	6075.64	6272.22	5901.35	5342.77	4970.97	5239.51	5753.94	6048.72
46	5379.51	5413.94	5829.77	6052.09	5652.49	5059.09	4686.74	4970.60	5521.25	5845.09
47	5090.78	5143.36	5585.15	5823.53	5404.08	4783.25	4402.60	4701.69	5292.15	5639.16
48	4804.48	4876.10	5344.95	5601.40	5158.44	4506.93	4123.40	4432.86	5057.80	5428.91
49	4517.45	4603.57	5099.50	5369.76	4909.77	4233.14	3850.91	4167.17	4823.45	5221.20
50	4240.89	4343.89	4855.57	5139.61	4663.83	3965.94	3586.04	3902.64	4589.09	5008.73
51	3967.61	4085.08	4613.67	4910.58	4423.56	3706.07	3331.87	3649.63	4354.40	4796.27
52	3700.43	3829.10	4376.65	4677.67	4177.29	3456.19	3091.24	3403.20	4118.62	4583.79
53	3446.06	3586.42	4142.17	4452.46	3938.10	3216.33	2861.71	3164.62	3887.85	4370.10

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54	3200.25	3345.80	3910.27	4222.29	3705.52	2985.08	2650.45	2940.72	3661.83	4157.47
55	2965.96	3118.57	3684.05	3996.81	3479.03	2766.72	2445.06	2726.01	3437.70	3944.87
56	2747.16	2901.32	3464.75	3777.64	3262.00	2564.62	2257.84	2524.36	3221.98	3736.99
57	2537.48	2695.03	3249.95	3561.55	3047.17	2353.29	2075.65	2330.33	3011.36	3529.75
58	2386.67	2497.68	3043.79	3351.55	2845.67	2176.69	1906.26	2147.64	2811.10	3329.66
59	2189.60	2325.38	2844.64	3146.71	2645.74	2000.27	1747.71	1974.07	2617.00	3130.56
60	1991.76	2153.56	2650.68	2947.54	2454.88	1835.28	1603.59	1811.93	2426.40	2939.45
61	1837.67	1981.75	2467.83	2756.13	2275.67	1685.12	1465.83	1663.09	2240.02	2753.83
62	1692.65	1828.03	2301.11	2568.60	2096.59	1538.38	1335.80	1519.81	2061.14	2569.16
63	1560.76	1689.41	2134.73	2390.92	1917.50	1399.92	1214.04	1382.83	1895.41	2397.49
64	1438.99	1559.49	1968.35	2220.29	1760.66	1270.68	1106.25	1255.73	1740.49	2224.40
65	1324.22	1436.15	1816.05	2049.87	1606.03	1153.08	1010.26	1140.08	1592.29	2058.79
66	1220.22	1322.78	1674.63	1879.45	1455.44	1051.02	925.67	1038.79	1444.87	1892.56
67	1122.50	1217.45	1540.67	1716.70	1313.87	959.51	848.53	948.32	1305.81	1736.51
68	1032.80	1120.48	1414.58	1564.67	1187.55	876.80	777.52	867.14	1181.10	1584.01
69	950.88	1029.59	1297.14	1425.30	1074.67	799.59	710.10	790.25	1068.68	1444.69
70	871.16	943.70	1185.04	1292.58	973.71	727.04	648.98	719.15	968.66	1314.63
71	798.56	862.87	1079.37	1163.15	877.55	661.54	591.25	654.12	873.69	1185.62
72	727.29	787.00	977.67	1040.71	789.79	597.81	538.67	591.67	785.49	1060.82
73	659.69	713.81	881.21	927.73	712.49	537.81	486.09	536.59	708.48	944.54
74	595.98	642.72	786.46	820.95	635.89	479.05	433.71	481.52	634.07	835.73
75	538.44	578.12	693.89	721.00	560.31	427.33	387.67	426.61	567.68	733.27
76	482.87	518.65	609.64	638.39	491.41	376.80	340.17	377.45	501.29	644.12
77	428.87	459.88	534.16	561.61	431.91	327.92	297.63	327.98	434.98	566.53
78	377.28	404.15	464.55	479.79	369.13	284.14	259.47	284.32	376.24	488.94
79	329.93	351.65	395.29	404.30	312.68	245.05	220.85	245.73	316.86	411.54
80	283.50	302.35	329.21	342.80	265.44	205.25	184.74	203.19	268.74	350.44
81	239.57	253.95	273.89	276.18	217.46	165.44	146.04	164.64	216.97	287.46
82	198.29	208.94	224.26	222.88	169.46	125.62	114.66	128.39	174.08	229.21
83	157.03	163.97	174.68	168.26	121.46	93.07	85.59	97.25	127.84	173.91
84	115.78	118.99	125.11	113.64	83.35	63.82	62.17	75.39	91.04	126.68
85	81.08	83.75	82.27	72.85	50.74	40.66	39.20	53.53	61.84	91.54
86	51.01	52.12	49.01	38.54	31.50	31.50	31.26	32.05	33.18	56.40
87	25.58	25.52	22.83	21.60	24.56	24.77	23.87	24.62	24.33	22.08
88	18.80	18.74	11.73	11.27	12.79	12.72	15.92	16.43	16.25	14.76
89	12.72	12.66	1.15	0.97	0.90	0.52	7.97	8.24	8.17	7.44
90	6.64	6.58	0.73	0.59	0.53	0.35	0.22	0.25	0.28	0.30
91	0.56	0.50	0.40	0.37	0.35	0.35	0.23	0.26	0.30	0.31
92	0.43	0.44	0.41	0.39	0.37	0.37	0.25	0.28	0.32	0.33
93	0.45	0.46	0.43	0.41	0.40	0.40	0.27	0.30	0.35	0.36
94	0.46	0.47	0.44	0.43	0.43	0.44	0.29	0.33	0.38	0.38
95	0.47	0.48	0.48	0.45	0.45	0.47	0.32	0.36	0.41	0.41
96	0.49	0.50	0.49	0.51	0.48	0.50	0.35	0.39	0.44	0.43
97	0.50	0.51	0.50	0.52	0.54	0.53	0.38	0.42	0.47	0.45
98	0.51	0.53	0.51	0.53	0.57	0.59	0.42	0.46	0.50	0.47
99	0.52	0.54	0.52	0.54	0.60	0.62	0.45	0.48	0.52	0.50
100	0.52	0.56	0.53	0.56	0.62	0.65	0.48	0.52	0.56	0.53
101	0.52	0.57	0.54	0.58	0.65	0.68	0.52	0.57	0.60	0.57
102	0.53	0.58	0.55	0.60	0.67	0.72	0.56	0.61	0.65	0.62
103	0.56	0.59	0.56	0.61	0.69	0.75	0.62	0.67	0.71	0.67
104	0.58	0.61	0.58	0.63	0.71	0.79	0.68	0.73	0.77	0.73
105	0.57	0.64	0.58	0.66	0.74	0.82	0.75	0.80	0.84	0.79
106	0.59	0.65	0.57	0.71	0.76	0.85	0.82	0.87	0.91	0.86
107	0.62	0.64	0.59	0.78	0.80	0.88	0.91	0.96	1.00	0.94
108	0.64	0.66	0.62	0.82	0.84	0.91	1.00	1.04	1.08	1.01
109	0.68	0.68	0.65	0.86	0.88	0.94	1.10	1.14	1.17	1.07

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CANDELA TABULATION - (Cont.)

110	0.70	0.71	0.68	0.90	0.91	0.97	1.20	1.23	1.26	1.14
111	0.69	0.76	0.72	0.94	0.92	1.00	1.30	1.34	1.36	1.22
112	0.68	0.78	0.76	0.98	0.95	1.04	1.42	1.44	1.45	1.28
113	0.67	0.79	0.79	1.02	0.99	1.08	1.54	1.56	1.55	1.37
114	0.68	0.82	0.81	1.05	1.04	1.13	1.66	1.69	1.66	1.47
115	0.71	0.85	0.83	1.07	1.11	1.19	1.80	1.82	1.77	1.60
116	0.77	0.89	0.86	1.11	1.20	1.25	1.96	1.95	1.88	1.73
117	0.84	0.92	0.90	1.15	1.29	1.32	2.09	2.09	1.98	1.85
118	0.89	0.96	0.95	1.19	1.36	1.38	2.23	2.24	2.11	1.99
119	0.92	1.02	1.00	1.24	1.42	1.43	2.40	2.41	2.26	2.15
120	0.93	1.01	1.06	1.29	1.47	1.47	2.57	2.58	2.45	2.35
121	0.96	1.06	1.16	1.33	1.51	1.51	2.75	2.75	2.64	2.54
122	0.97	1.14	1.26	1.37	1.55	1.55	2.96	2.98	2.80	2.74
123	1.00	1.27	1.32	1.40	1.58	1.61	3.18	3.22	2.98	2.93
124	1.04	1.37	1.36	1.45	1.63	1.68	3.43	3.44	3.18	3.12
125	1.10	1.45	1.41	1.50	1.68	1.75	3.68	3.66	3.40	3.30
126	1.17	1.53	1.46	1.57	1.74	1.81	3.92	3.85	3.65	3.48
127	1.25	1.59	1.52	1.65	1.80	1.89	4.14	4.04	3.87	3.67
128	1.32	1.65	1.58	1.73	1.86	1.97	4.36	4.22	4.09	3.86
129	1.40	1.71	1.65	1.80	1.94	2.04	4.54	4.41	4.29	4.04
130	1.47	1.75	1.73	1.83	2.00	2.11	4.72	4.60	4.48	4.21
131	1.53	1.78	1.84	1.85	2.06	2.16	4.89	4.79	4.67	4.39
132	1.59	1.81	1.94	1.89	2.12	2.19	5.05	4.96	4.84	4.57
133	1.64	1.83	2.02	1.93	2.20	2.20	5.23	5.13	4.99	4.75
134	1.70	1.85	2.09	2.00	2.25	2.22	5.43	5.28	5.15	4.92
135	1.75	1.87	2.16	2.09	2.31	2.24	5.58	5.43	5.31	5.10
136	1.80	1.91	2.22	2.20	2.36	2.30	5.76	5.59	5.47	5.30
137	1.85	1.95	2.27	2.32	2.42	2.37	5.91	5.75	5.65	5.49
138	1.91	2.01	2.32	2.43	2.49	2.45	6.09	5.91	5.84	5.69
139	1.97	2.07	2.36	2.53	2.57	2.54	6.29	6.08	6.03	5.87
140	2.04	2.14	2.41	2.62	2.65	2.63	6.51	6.26	6.24	6.06
141	2.11	2.23	2.46	2.70	2.73	2.72	6.74	6.45	6.46	6.25
142	2.17	2.34	2.53	2.77	2.82	2.81	6.95	6.65	6.70	6.43
143	2.25	2.44	2.60	2.85	2.90	2.89	7.17	6.86	6.92	6.61
144	2.33	2.55	2.68	2.92	2.96	2.96	7.37	7.10	7.15	6.79
145	2.42	2.65	2.75	3.00	3.02	3.02	7.57	7.32	7.37	6.96
146	2.51	2.74	2.82	3.08	3.06	3.09	7.74	7.54	7.59	7.14
147	2.61	2.83	2.90	3.15	3.10	3.15	7.91	7.73	7.80	7.31
148	2.72	2.92	2.98	3.23	3.12	3.22	8.08	7.91	7.99	7.48
149	2.82	2.99	3.05	3.30	3.16	3.29	8.23	8.07	8.17	7.64
150	2.94	3.06	3.12	3.38	3.20	3.35	8.39	8.21	8.33	7.78
151	3.04	3.13	3.18	3.46	3.25	3.41	8.50	8.33	8.45	7.91
152	3.15	3.21	3.24	3.54	3.31	3.47	8.60	8.43	8.56	8.03
153	3.25	3.28	3.29	3.60	3.39	3.52	8.67	8.49	8.65	8.13
154	3.36	3.34	3.34	3.66	3.48	3.56	8.77	8.57	8.72	8.21
155	3.47	3.40	3.39	3.73	3.55	3.61	8.83	8.65	8.77	8.27
156	3.58	3.46	3.43	3.79	3.63	3.66	8.92	8.74	8.80	8.32
157	3.67	3.52	3.48	3.84	3.71	3.70	9.04	8.84	8.80	8.35
158	3.76	3.58	3.52	3.88	3.77	3.73	9.12	8.91	8.78	8.39
159	3.83	3.63	3.56	3.90	3.84	3.76	9.15	8.95	8.74	8.40
160	3.90	3.69	3.60	3.91	3.91	3.79	9.15	8.98	8.68	8.41
161	3.96	3.76	3.64	3.90	3.96	3.81	9.08	8.97	8.61	8.38
162	4.02	3.82	3.69	3.89	4.00	3.83	8.96	8.92	8.54	8.33
163	4.07	3.85	3.73	3.89	4.01	3.84	8.84	8.82	8.49	8.24
164	4.11	3.85	3.74	3.88	4.00	3.82	8.69	8.71	8.41	8.14
165	4.12	3.82	3.75	3.86	3.96	3.80	8.57	8.56	8.30	8.05

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CANDELA TABULATION - (Cont.)

166	4.11	3.79	3.73	3.84	3.91	3.78	8.42	8.38	8.19	7.98
167	4.09	3.73	3.69	3.79	3.85	3.74	8.21	8.19	8.08	7.89
168	4.04	3.65	3.64	3.72	3.78	3.69	7.99	7.97	7.92	7.77
169	3.97	3.57	3.58	3.66	3.71	3.61	7.75	7.75	7.75	7.65
170	3.90	3.49	3.53	3.61	3.63	3.54	7.59	7.56	7.65	7.54
171	3.83	3.43	3.48	3.53	3.56	3.44	7.33	7.31	7.39	7.36
172	3.74	3.37	3.43	3.42	3.49	3.33	7.09	7.10	7.13	7.17
173	3.61	3.29	3.38	3.35	3.45	3.22	6.95	6.95	6.92	7.00
174	3.47	3.23	3.38	3.32	3.43	3.10	6.63	6.62	6.66	6.82
175	3.47	3.25	3.45	3.42	3.54	3.16	6.52	6.51	6.49	6.65
176	3.54	3.37	3.68	3.65	3.80	3.36	6.33	6.35	6.32	6.49
177	3.78	3.63	3.95	3.97	3.99	3.64	6.11	6.15	6.21	6.22
178	4.23	3.93	4.28	4.38	4.29	4.01	5.89	5.91	6.04	6.05
179	4.44	4.22	4.61	4.80	4.59	4.56	5.79	5.80	5.75	5.86
180	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	10376.40	10376.40	10376.40	10376.40	10376.40	10376.40	10376.40	10376.40	10376.40	10376.40
1	10329.91	10338.75	10352.41	10365.18	10378.79	10392.38	10404.38	10413.21	10423.27	10426.87
2	10282.88	10302.87	10328.43	10354.78	10380.38	10404.33	10424.35	10441.18	10458.54	10469.16
3	10233.87	10267.50	10306.73	10345.13	10380.38	10412.38	10438.03	10459.66	10484.99	10500.60
4	10182.18	10232.19	10287.03	10336.15	10380.35	10416.37	10444.39	10467.65	10497.71	10521.18
5	10133.04	10197.93	10268.80	10329.81	10378.77	10415.54	10441.91	10465.14	10498.76	10530.33
6	10084.77	10166.24	10252.46	10325.75	10378.75	10411.32	10430.23	10449.28	10485.50	10525.85
7	10039.05	10134.58	10238.23	10322.49	10377.96	10401.84	10408.81	10420.56	10458.19	10508.35
8	9992.66	10104.37	10225.23	10319.33	10374.70	10387.88	10379.40	10381.53	10422.24	10480.40
9	9949.36	10074.63	10212.97	10316.92	10369.64	10367.11	10341.87	10334.13	10375.51	10442.40
10	9906.03	10044.80	10200.87	10314.49	10360.99	10338.85	10298.27	10283.21	10324.28	10398.41
11	9864.91	10014.24	10187.15	10310.46	10347.26	10306.14	10248.22	10225.22	10270.95	10349.13
12	9822.38	9981.31	10172.65	10303.73	10328.10	10265.99	10194.45	10164.90	10212.94	10297.41
13	9776.81	9946.28	10155.01	10292.53	10304.02	10220.40	10135.50	10102.79	10154.89	10244.99
14	9728.72	9908.01	10133.29	10276.51	10271.85	10169.00	10073.87	10041.13	10097.32	10190.75
15	9678.36	9869.50	10109.29	10256.62	10232.74	10113.77	10012.14	9980.44	10042.79	10137.69
16	9624.30	9824.95	10078.82	10231.08	10189.00	10055.41	9949.87	9922.33	9989.21	10084.87
17	9568.44	9775.46	10045.59	10198.96	10138.14	9991.89	9888.33	9867.32	9940.09	10034.29
18	9507.90	9724.02	10007.47	10161.95	10083.13	9927.59	9826.73	9812.03	9891.58	9984.65
19	9447.05	9668.40	9966.99	10121.22	10022.24	9861.18	9765.84	9759.10	9845.61	9934.76
20	9378.62	9610.50	9921.16	10075.44	9956.95	9790.99	9702.89	9705.21	9798.05	9884.74
21	9310.02	9548.14	9873.02	10024.77	9890.63	9720.16	9642.24	9650.56	9746.24	9833.67
22	9236.47	9481.99	9816.69	9969.38	9819.82	9648.26	9579.73	9592.84	9692.33	9777.38
23	9160.95	9411.71	9754.65	9907.32	9744.81	9573.22	9514.89	9530.54	9630.75	9716.31
24	9079.94	9333.35	9683.14	9839.28	9666.69	9496.85	9447.73	9463.93	9563.29	9648.18
25	8996.87	9249.29	9603.95	9762.22	9583.53	9419.43	9375.41	9390.18	9488.81	9573.83
26	8905.03	9155.13	9514.63	9673.69	9495.36	9336.95	9295.89	9308.15	9405.80	9490.90
27	8810.58	9053.87	9416.00	9576.33	9403.45	9251.20	9209.97	9218.87	9313.75	9403.92
28	8709.07	8942.72	9303.52	9470.42	9302.99	9161.65	9117.48	9120.49	9209.97	9304.20
29	8604.12	8821.27	9180.97	9349.59	9193.44	9065.81	9017.38	9012.61	9095.33	9196.29
30	8488.37	8687.95	9043.01	9217.75	9078.29	8963.99	8908.05	8890.46	8967.72	9077.38
31	8367.24	8549.00	8893.47	9074.58	8954.48	8855.54	8789.78	8758.59	8824.17	8945.67
32	8238.40	8391.29	8728.50	8916.85	8820.65	8737.81	8662.62	8612.15	8665.16	8801.48
33	8100.84	8226.30	8552.92	8746.67	8677.74	8616.14	8526.12	8450.41	8494.29	8644.44
34	7953.69	8048.67	8359.83	8564.52	8526.32	8484.45	8381.89	8275.46	8300.71	8470.07
35	7799.64	7858.52	8155.84	8369.15	8366.01	8345.57	8223.93	8085.73	8096.57	8284.74
36	7635.54	7656.83	7936.92	8159.85	8197.40	8198.28	8055.73	7881.49	7877.18	8082.89

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CANDELA TABULATION - (Cont.)

37	7463.23	7442.96	7705.99	7938.06	8015.67	8042.87	7877.79	7665.52	7639.44	7863.52
38	7283.13	7219.83	7463.86	7707.72	7830.01	7879.38	7690.75	7434.51	7396.52	7640.27
39	7093.87	6987.89	7211.44	7464.26	7630.28	7706.20	7490.30	7193.06	7138.84	7400.69
40	6897.70	6747.56	6949.73	7211.35	7425.53	7526.97	7281.93	6941.29	6871.50	7151.82
41	6695.20	6503.51	6681.69	6952.62	7210.06	7338.76	7063.55	6679.29	6597.85	6895.25
42	6484.24	6250.32	6404.21	6684.70	6993.19	7146.18	6840.54	6412.62	6315.93	6630.25
43	6267.79	5996.67	6125.43	6413.23	6761.96	6943.86	6605.64	6140.05	6033.77	6359.31
44	6052.31	5737.83	5843.17	6139.61	6535.47	6736.12	6368.78	5866.11	5741.36	6082.07
45	5825.31	5477.59	5559.35	5858.96	6291.85	6522.74	6126.57	5583.53	5449.52	5805.37
46	5598.84	5217.72	5274.23	5579.28	6049.67	6301.55	5878.45	5301.22	5153.77	5523.44
47	5371.92	4961.45	4995.25	5300.96	5805.44	6078.32	5628.66	5024.97	4866.61	5240.53
48	5145.93	4705.18	4716.28	5026.28	5558.97	5850.14	5377.39	4748.72	4573.22	4959.61
49	4920.73	4448.91	4437.30	4751.59	5312.55	5616.40	5133.35	4472.48	4290.82	4679.53
50	4695.53	4196.16	4162.77	4477.05	5068.98	5384.82	4885.56	4200.59	4014.42	4403.75
51	4470.31	3948.72	3895.93	4209.84	4825.40	5152.52	4637.75	3932.31	3740.22	4128.48
52	4244.36	3703.00	3633.77	3945.39	4581.85	4918.75	4388.65	3675.05	3482.50	3864.26
53	4023.93	3467.37	3383.20	3689.98	4339.84	4684.98	4145.97	3424.42	3233.15	3606.59
54	3807.89	3241.49	3144.37	3444.10	4103.89	4451.28	3906.02	3187.95	2993.79	3355.33
55	3594.05	3021.87	2915.23	3206.47	3869.06	4220.69	3674.18	2960.59	2766.27	3119.25
56	3386.70	2813.91	2699.50	2980.14	3642.58	3990.32	3448.70	2742.36	2553.07	2886.68
57	3181.67	2613.85	2493.95	2764.00	3420.23	3767.00	3226.91	2537.25	2341.82	2670.76
58	2986.19	2427.22	2304.65	2561.97	3203.47	3548.84	3014.15	2337.38	2154.31	2459.25
59	2793.88	2249.62	2125.71	2369.00	2995.87	3333.15	2810.58	2148.60	1967.12	2270.12
60	2612.26	2084.60	1961.86	2191.02	2793.92	3126.64	2614.10	1969.67	1798.30	2081.36
61	2435.31	1928.64	1808.59	2023.26	2599.15	2922.73	2417.92	1804.75	1642.47	1892.59
62	2265.01	1782.18	1666.52	1867.41	2416.63	2728.39	2229.05	1647.98	1488.21	1721.14
63	2104.79	1647.49	1536.73	1720.27	2240.33	2539.99	2048.29	1496.34	1346.53	1558.84
64	1950.80	1519.91	1413.43	1587.26	2072.14	2360.49	1881.98	1355.36	1217.88	1408.08
65	1805.14	1399.37	1300.32	1458.11	1914.06	2183.89	1720.61	1225.32	1104.00	1268.03
66	1666.48	1288.21	1198.07	1338.21	1762.76	2008.66	1557.25	1112.21	1006.51	1149.34
67	1531.88	1186.49	1105.14	1229.67	1622.08	1840.90	1407.33	1013.50	917.36	1042.70
68	1404.34	1093.34	1017.70	1130.59	1487.73	1679.34	1267.87	923.23	837.29	948.56
69	1286.29	1004.81	935.47	1037.04	1358.48	1530.30	1144.20	839.94	762.39	861.51
70	1177.69	922.42	860.90	950.90	1237.95	1393.66	1035.16	762.29	692.76	779.48
71	1073.45	845.20	789.33	868.27	1128.33	1258.14	934.02	690.96	628.55	705.97
72	973.00	771.40	720.50	792.68	1022.91	1129.62	840.12	623.36	565.10	635.43
73	879.13	701.19	655.75	719.59	921.48	1006.21	755.27	557.05	506.59	566.95
74	785.72	633.57	594.69	649.36	823.05	890.14	675.37	500.37	452.17	502.92
75	696.67	572.83	541.38	585.82	730.52	782.15	594.07	443.82	403.50	447.56
76	613.19	517.77	488.08	529.32	641.39	686.79	528.10	392.66	352.84	394.24
77	544.78	462.72	434.81	472.83	569.45	605.76	462.12	338.87	307.55	339.88
78	476.36	407.77	384.23	416.34	497.52	528.51	396.24	292.99	267.75	293.48
79	407.96	356.00	336.42	363.71	425.61	451.26	333.09	252.41	228.94	251.77
80	340.68	308.44	291.71	314.69	356.88	374.28	281.95	209.04	188.42	209.89
81	282.75	260.42	247.39	266.35	293.76	307.67	228.02	167.61	147.88	167.99
82	229.64	214.40	204.75	220.81	239.22	244.31	182.09	129.12	115.38	126.10
83	178.52	169.01	164.36	174.47	187.70	186.96	132.51	96.67	85.67	94.08
84	133.20	127.94	125.97	133.04	142.19	137.66	93.83	74.63	58.82	63.38
85	97.59	92.08	91.65	97.23	98.92	99.62	62.98	52.59	38.48	40.11
86	61.97	62.05	62.49	77.75	79.13	61.58	32.68	30.98	31.19	31.13
87	27.14	32.53	33.81	58.28	59.33	24.32	24.64	24.92	24.76	24.69
88	18.10	21.68	22.54	38.80	39.54	15.47	16.45	16.62	13.97	13.92
89	9.06	10.83	11.27	19.33	19.74	10.39	8.26	8.33	3.18	3.15
90	0.27	0.25	0.25	0.28	0.38	5.31	0.27	0.24	2.18	2.14
91	0.29	0.26	0.26	0.28	0.30	0.30	0.27	0.23	1.30	1.29
92	0.30	0.28	0.27	0.29	0.32	0.32	0.29	0.25	0.41	0.44

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93	0.32	0.29	0.29	0.31	0.33	0.34	0.30	0.26	0.41	0.44
94	0.34	0.30	0.30	0.32	0.35	0.36	0.32	0.28	0.44	0.47
95	0.36	0.31	0.31	0.33	0.37	0.38	0.35	0.30	0.47	0.50
96	0.37	0.32	0.32	0.35	0.38	0.41	0.38	0.33	0.51	0.54
97	0.38	0.33	0.33	0.35	0.40	0.43	0.40	0.36	0.54	0.57
98	0.39	0.33	0.34	0.36	0.41	0.45	0.43	0.39	0.58	0.61
99	0.41	0.34	0.35	0.38	0.42	0.47	0.46	0.42	0.61	0.65
100	0.43	0.36	0.37	0.40	0.44	0.50	0.49	0.45	0.64	0.68
101	0.47	0.39	0.40	0.42	0.47	0.54	0.53	0.49	0.67	0.71
102	0.51	0.43	0.44	0.46	0.51	0.58	0.58	0.53	0.70	0.73
103	0.56	0.48	0.49	0.51	0.56	0.63	0.63	0.58	0.73	0.75
104	0.61	0.54	0.54	0.55	0.61	0.69	0.69	0.64	0.76	0.78
105	0.64	0.60	0.59	0.60	0.65	0.75	0.75	0.70	0.79	0.80
106	0.65	0.65	0.66	0.65	0.68	0.82	0.82	0.78	0.83	0.83
107	0.66	0.67	0.72	0.69	0.70	0.90	0.90	0.86	0.87	0.86
108	0.69	0.68	0.75	0.70	0.72	0.98	0.98	0.94	0.90	0.89
109	0.78	0.72	0.75	0.70	0.79	1.05	1.07	1.03	0.93	0.92
110	0.91	0.77	0.79	0.73	0.88	1.11	1.17	1.13	0.97	0.95
111	1.05	0.83	0.85	0.81	0.99	1.18	1.26	1.23	1.01	0.98
112	1.19	0.93	0.94	0.91	1.10	1.26	1.36	1.34	1.04	1.02
113	1.32	1.07	1.05	1.02	1.22	1.36	1.46	1.45	1.08	1.05
114	1.45	1.23	1.19	1.18	1.34	1.47	1.56	1.58	1.12	1.08
115	1.57	1.39	1.37	1.34	1.46	1.58	1.66	1.71	1.16	1.11
116	1.70	1.51	1.49	1.48	1.60	1.70	1.77	1.85	1.20	1.15
117	1.83	1.66	1.63	1.63	1.75	1.81	1.89	1.98	1.24	1.18
118	1.96	1.80	1.79	1.79	1.89	1.93	2.02	2.11	1.28	1.22
119	2.09	1.91	1.96	1.92	2.03	2.05	2.17	2.24	1.33	1.26
120	2.24	2.04	2.10	2.04	2.16	2.19	2.36	2.42	1.38	1.31
121	2.40	2.16	2.19	2.17	2.33	2.38	2.54	2.61	1.43	1.35
122	2.57	2.26	2.24	2.31	2.50	2.57	2.73	2.81	1.49	1.40
123	2.73	2.42	2.31	2.45	2.67	2.75	2.91	3.02	1.55	1.45
124	2.91	2.58	2.47	2.60	2.89	2.94	3.11	3.24	1.61	1.49
125	3.08	2.75	2.63	2.75	3.10	3.13	3.31	3.44	1.68	1.54
126	3.28	3.03	2.84	3.08	3.30	3.32	3.52	3.65	1.74	1.59
127	3.48	3.35	3.21	3.42	3.49	3.52	3.71	3.85	1.80	1.63
128	3.67	3.63	3.58	3.72	3.68	3.73	3.90	4.05	1.86	1.69
129	3.89	3.83	3.89	3.94	3.86	3.96	4.08	4.24	1.94	1.75
130	4.11	4.00	4.11	4.12	4.05	4.17	4.24	4.42	2.00	1.80
131	4.33	4.17	4.29	4.28	4.23	4.38	4.39	4.58	2.06	1.86
132	4.54	4.33	4.46	4.45	4.41	4.58	4.55	4.74	2.08	1.91
133	4.74	4.49	4.62	4.61	4.60	4.78	4.72	4.87	2.11	1.97
134	4.92	4.66	4.76	4.77	4.78	4.94	4.87	4.99	2.15	2.02
135	5.09	4.82	4.91	4.94	4.95	5.09	5.05	5.13	2.20	2.08
136	5.25	4.96	5.03	5.10	5.12	5.26	5.24	5.30	2.24	2.14
137	5.41	5.09	5.15	5.25	5.29	5.42	5.43	5.49	2.28	2.18
138	5.57	5.20	5.28	5.37	5.44	5.58	5.63	5.71	2.31	2.24
139	5.73	5.29	5.41	5.49	5.59	5.77	5.82	5.93	2.36	2.32
140	5.91	5.37	5.51	5.59	5.73	5.94	6.02	6.16	2.42	2.40
141	6.08	5.46	5.61	5.70	5.85	6.12	6.22	6.40	2.48	2.47
142	6.25	5.56	5.71	5.81	5.98	6.31	6.42	6.63	2.54	2.54
143	6.40	5.68	5.80	5.90	6.11	6.49	6.64	6.86	2.58	2.61
144	6.53	5.80	5.91	5.99	6.24	6.68	6.84	7.09	2.60	2.69
145	6.67	5.93	6.04	6.10	6.36	6.87	7.03	7.31	2.63	2.76
146	6.80	6.07	6.17	6.22	6.48	7.07	7.24	7.53	2.64	2.85
147	6.94	6.20	6.30	6.35	6.59	7.26	7.43	7.74	2.66	2.93
148	7.09	6.35	6.43	6.48	6.70	7.44	7.62	7.94	2.70	3.00

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CANDELA TABULATION - (Cont.)

149	7.25	6.50	6.57	6.62	6.81	7.62	7.81	8.12	2.76	3.09
150	7.40	6.64	6.70	6.76	6.93	7.77	7.97	8.29	2.84	3.17
151	7.54	6.80	6.82	6.90	7.05	7.89	8.12	8.43	2.92	3.25
152	7.67	6.95	6.95	7.05	7.19	8.02	8.26	8.56	3.01	3.32
153	7.78	7.09	7.08	7.19	7.34	8.13	8.38	8.69	3.10	3.38
154	7.89	7.22	7.21	7.32	7.46	8.20	8.51	8.81	3.20	3.43
155	7.99	7.35	7.34	7.43	7.60	8.26	8.63	8.91	3.29	3.48
156	8.08	7.46	7.48	7.52	7.74	8.33	8.72	9.00	3.39	3.55
157	8.16	7.56	7.59	7.60	7.88	8.41	8.81	9.10	3.47	3.61
158	8.20	7.64	7.68	7.68	8.02	8.48	8.86	9.17	3.53	3.65
159	8.24	7.69	7.76	7.75	8.15	8.56	8.89	9.22	3.57	3.70
160	8.24	7.73	7.79	7.81	8.24	8.64	8.91	9.30	3.60	3.74
161	8.23	7.74	7.78	7.83	8.30	8.66	8.94	9.34	3.63	3.78
162	8.17	7.71	7.78	7.84	8.35	8.66	8.94	9.31	3.65	3.80
163	8.08	7.67	7.76	7.83	8.37	8.65	8.92	9.27	3.66	3.80
164	7.98	7.61	7.71	7.82	8.36	8.62	8.86	9.19	3.65	3.80
165	7.86	7.53	7.63	7.76	8.31	8.58	8.79	9.08	3.65	3.77
166	7.72	7.43	7.57	7.71	8.25	8.52	8.72	8.95	3.62	3.73
167	7.58	7.31	7.48	7.64	8.15	8.42	8.64	8.79	3.57	3.68
168	7.44	7.19	7.37	7.56	8.02	8.29	8.53	8.61	3.49	3.61
169	7.31	7.03	7.23	7.45	7.90	8.13	8.39	8.40	3.41	3.53
170	7.23	6.92	7.15	7.36	7.82	8.00	8.26	8.23	3.33	3.44
171	7.03	6.73	6.96	7.19	7.61	7.80	8.02	7.92	3.23	3.36
172	6.79	6.50	6.78	6.99	7.37	7.55	7.73	7.57	3.18	3.27
173	6.61	6.32	6.59	6.77	7.08	7.26	7.43	7.23	3.16	3.17
174	6.42	6.15	6.42	6.50	6.74	6.96	7.11	6.94	3.06	3.12
175	6.28	5.99	6.20	6.24	6.40	6.68	6.86	6.67	3.20	3.29
176	6.15	5.90	5.96	5.96	6.07	6.46	6.64	6.51	3.50	3.57
177	6.09	5.78	5.70	5.70	5.73	6.21	6.38	6.33	3.72	3.89
178	6.00	5.53	5.31	5.33	5.32	5.89	6.04	6.16	3.97	4.23
179	5.70	5.25	4.93	4.95	4.90	5.53	5.67	5.89	4.22	4.57
180	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64

Vert. Angles	Horizontal Angles				
	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	10376.40	10376.40	10376.40	10376.40	10376.40
1	10428.98	10428.14	10422.58	10412.69	10401.50
2	10474.36	10472.88	10465.55	10449.36	10426.16
3	10511.75	10514.27	10505.98	10483.32	10450.96
4	10540.23	10549.07	10544.05	10518.11	10475.48
5	10559.81	10579.06	10577.29	10550.50	10498.95
6	10568.79	10601.46	10608.32	10581.62	10522.09
7	10567.49	10617.21	10636.21	10610.22	10543.34
8	10554.84	10623.84	10658.87	10636.86	10563.52
9	10531.95	10623.18	10675.77	10660.90	10580.33
10	10501.97	10613.64	10687.35	10681.43	10595.15
11	10465.55	10596.78	10692.31	10697.69	10606.55
12	10424.18	10572.10	10690.77	10706.53	10610.60
13	10378.26	10543.11	10681.20	10709.07	10607.50
14	10329.60	10507.28	10662.20	10702.03	10594.86
15	10279.83	10466.57	10633.84	10684.31	10574.61
16	10226.23	10417.79	10594.68	10657.94	10545.03
17	10170.86	10363.91	10546.48	10622.62	10508.95
18	10115.51	10303.28	10489.75	10579.66	10464.39
19	10058.36	10237.73	10424.37	10528.13	10414.18

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CANDELA TABULATION - (Cont.)

20	10000.09	10164.47	10350.88	10469.18	10356.32
21	9940.21	10086.00	10274.38	10402.85	10293.97
22	9878.45	10002.06	10188.10	10328.41	10221.55
23	9812.44	9914.21	10094.12	10249.05	10143.43
24	9740.66	9821.66	9994.55	10162.33	10059.66
25	9665.01	9725.88	9889.82	10068.95	9966.30
26	9579.66	9624.50	9779.88	9963.78	9866.39
27	9490.18	9518.15	9662.37	9853.83	9753.55
28	9393.61	9409.44	9540.72	9728.97	9629.09
29	9286.45	9292.69	9412.34	9594.64	9493.05
30	9172.61	9173.52	9277.23	9447.76	9344.14
31	9050.83	9047.23	9131.08	9287.57	9180.70
32	8921.44	8915.77	8980.46	9112.72	9002.56
33	8780.63	8780.38	8820.80	8927.56	8813.65
34	8631.87	8638.38	8650.45	8725.58	8607.27
35	8473.67	8491.48	8476.59	8516.89	8388.33
36	8304.76	8337.71	8291.41	8289.43	8156.63
37	8122.73	8175.82	8098.37	8055.26	7910.93
38	7933.00	8009.23	7897.53	7811.73	7658.48
39	7732.17	7832.46	7687.53	7550.93	7388.88
40	7523.15	7649.86	7470.19	7288.55	7115.06
41	7303.47	7458.99	7244.80	7014.15	6835.03
42	7075.64	7262.89	7012.69	6735.54	6547.52
43	6843.88	7059.31	6776.72	6454.35	6258.91
44	6600.09	6849.02	6532.66	6167.63	5965.55
45	6362.86	6635.03	6287.21	5883.91	5676.10
46	6113.62	6410.89	6034.64	5592.15	5379.51
47	5861.37	6182.46	5782.78	5309.26	5090.78
48	5611.21	5956.05	5530.17	5027.04	4804.48
49	5352.93	5720.07	5275.51	4744.91	4517.45
50	5101.31	5482.63	5020.65	4473.36	4240.89
51	4850.59	5247.95	4773.29	4203.35	3967.61
52	4596.93	5005.18	4520.80	3937.05	3700.43
53	4348.34	4770.54	4278.56	3683.56	3446.06
54	4097.20	4533.51	4039.38	3433.75	3200.25
55	3855.89	4298.45	3800.69	3194.78	2965.96
56	3616.85	4067.42	3575.89	2969.69	2747.16
57	3383.93	3838.84	3350.07	2751.96	2537.48
58	3162.72	3615.49	3139.00	2550.37	2386.67
59	2943.32	3394.78	2931.89	2352.84	2189.60
60	2732.25	3184.65	2733.02	2182.72	1991.76
61	2526.62	2977.50	2542.74	2013.03	1837.67
62	2336.39	2777.27	2351.57	1855.41	1692.65
63	2146.48	2585.97	2188.00	1709.36	1560.76
64	1956.58	2402.73	2024.84	1577.23	1438.99
65	1781.02	2223.84	1867.11	1449.25	1324.22
66	1611.18	2044.95	1720.99	1335.21	1220.22
67	1450.76	1866.06	1582.91	1226.70	1122.50
68	1302.78	1701.31	1452.91	1126.96	1032.80
69	1174.07	1549.92	1331.38	1035.47	950.88
70	1059.69	1404.40	1216.00	947.24	871.16
71	953.10	1264.76	1107.94	865.69	798.56
72	854.33	1128.16	1004.53	789.08	727.29
73	767.48	1002.95	906.67	716.56	659.69
74	681.95	886.00	811.01	644.24	595.98
75	596.23	777.58	719.10	579.29	538.44

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CANDELA TABULATION - (Cont.)

76	521.44	684.45	630.55	519.44	482.87
77	456.73	600.11	551.28	461.66	428.87
78	390.57	511.10	480.87	405.59	377.28
79	327.58	430.57	409.78	353.43	329.93
80	276.82	362.83	337.80	303.80	283.50
81	226.13	292.21	280.14	255.55	239.57
82	175.43	232.24	225.48	210.56	198.29
83	124.74	175.23	177.21	165.59	157.03
84	84.29	118.22	128.96	120.63	115.78
85	51.84	75.84	85.01	84.79	81.08
86	31.45	40.90	51.13	53.12	51.01
87	24.31	21.74	24.07	25.97	25.58
88	13.47	11.88	12.82	19.58	18.80
89	2.48	2.03	1.58	13.22	12.72
90	1.33	1.12	0.89	6.85	6.64
91	0.40	0.39	0.38	0.48	0.56
92	0.41	0.40	0.39	0.40	0.43
93	0.44	0.43	0.41	0.41	0.45
94	0.47	0.45	0.44	0.42	0.46
95	0.50	0.48	0.46	0.43	0.47
96	0.53	0.51	0.48	0.44	0.49
97	0.56	0.54	0.51	0.45	0.50
98	0.59	0.56	0.53	0.45	0.51
99	0.62	0.59	0.55	0.45	0.52
100	0.65	0.61	0.57	0.45	0.52
101	0.68	0.64	0.59	0.46	0.52
102	0.71	0.67	0.62	0.45	0.53
103	0.74	0.70	0.64	0.47	0.56
104	0.77	0.73	0.65	0.51	0.58
105	0.79	0.76	0.66	0.56	0.57
106	0.82	0.79	0.68	0.63	0.59
107	0.84	0.82	0.71	0.68	0.62
108	0.87	0.84	0.74	0.73	0.64
109	0.90	0.88	0.78	0.76	0.68
110	0.92	0.91	0.82	0.78	0.70
111	0.95	0.95	0.86	0.82	0.69
112	0.98	0.99	0.90	0.85	0.68
113	1.01	1.03	0.95	0.90	0.67
114	1.05	1.07	1.00	0.96	0.68
115	1.09	1.12	1.04	1.01	0.71
116	1.14	1.17	1.09	1.06	0.77
117	1.19	1.21	1.14	1.11	0.84
118	1.24	1.26	1.20	1.16	0.89
119	1.30	1.31	1.25	1.21	0.92
120	1.35	1.37	1.31	1.25	0.93
121	1.41	1.42	1.37	1.29	0.96
122	1.46	1.48	1.43	1.33	0.97
123	1.51	1.53	1.50	1.38	1.00
124	1.57	1.59	1.57	1.45	1.04
125	1.62	1.64	1.64	1.53	1.10
126	1.67	1.70	1.72	1.62	1.17
127	1.73	1.76	1.79	1.71	1.25
128	1.79	1.83	1.88	1.79	1.32
129	1.86	1.90	1.97	1.87	1.40
130	1.92	1.96	2.06	1.94	1.47
131	1.98	2.02	2.14	2.01	1.53

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CANDELA TABULATION - (Cont.)

132	2.04	2.09	2.23	2.07	1.59
133	2.10	2.16	2.30	2.14	1.64
134	2.15	2.23	2.38	2.20	1.70
135	2.21	2.31	2.45	2.26	1.75
136	2.27	2.40	2.53	2.32	1.80
137	2.33	2.48	2.60	2.39	1.85
138	2.40	2.56	2.67	2.45	1.91
139	2.45	2.63	2.72	2.51	1.97
140	2.52	2.70	2.77	2.57	2.04
141	2.57	2.77	2.83	2.64	2.11
142	2.62	2.84	2.88	2.70	2.17
143	2.69	2.91	2.93	2.77	2.25
144	2.75	2.98	2.98	2.83	2.33
145	2.81	3.04	3.02	2.90	2.42
146	2.87	3.11	3.06	2.97	2.51
147	2.92	3.17	3.10	3.04	2.61
148	2.98	3.23	3.15	3.12	2.72
149	3.05	3.28	3.20	3.19	2.82
150	3.11	3.34	3.26	3.27	2.94
151	3.17	3.40	3.32	3.35	3.04
152	3.22	3.45	3.39	3.43	3.15
153	3.27	3.50	3.46	3.52	3.25
154	3.32	3.54	3.52	3.60	3.36
155	3.38	3.58	3.59	3.69	3.47
156	3.42	3.62	3.66	3.78	3.58
157	3.47	3.66	3.72	3.86	3.67
158	3.51	3.69	3.78	3.95	3.76
159	3.55	3.72	3.83	4.03	3.83
160	3.58	3.75	3.88	4.11	3.90
161	3.61	3.77	3.92	4.17	3.96
162	3.64	3.80	3.95	4.24	4.02
163	3.67	3.82	3.99	4.28	4.07
164	3.68	3.84	4.01	4.32	4.11
165	3.67	3.85	4.02	4.34	4.12
166	3.65	3.85	4.03	4.33	4.11
167	3.60	3.82	4.02	4.30	4.09
168	3.54	3.76	3.98	4.25	4.04
169	3.47	3.68	3.94	4.17	3.97
170	3.39	3.59	3.89	4.08	3.90
171	3.32	3.51	3.84	3.99	3.83
172	3.24	3.43	3.76	3.86	3.74
173	3.18	3.33	3.64	3.72	3.61
174	3.14	3.27	3.52	3.57	3.47
175	3.19	3.33	3.52	3.51	3.47
176	3.47	3.53	3.73	3.61	3.54
177	3.81	3.83	4.00	3.88	3.78
178	4.30	4.29	4.30	4.18	4.23
179	4.79	4.75	4.61	4.50	4.44
180	4.64	4.64	4.64	4.64	4.64

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3827.74	16.50	16.50
0-30	8182.43	35.40	35.40
0-40	13242.64	57.20	57.20
0-60	20785.72	89.80	89.80
0-80	23020.61	99.50	99.50
0-90	23128.34	99.90	99.90
10-90	22145.02	95.70	95.70
20-40	9414.9	40.70	40.70
20-50	13917.61	60.10	60.10
40-70	9137.28	39.50	39.50
60-80	2234.88	9.70	9.70
70-80	640.68	2.80	2.80
80-90	107.73	0.50	0.50
90-110	1.28	0.00	0.00
90-120	2.59	0.00	0.00
90-130	4.73	0.00	0.00
90-150	10.54	0.00	0.00
90-180	15.43	0.10	0.10
110-180	14.15	0.10	0.10
0-180	23143.76	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	983.32
10-20	2844.42
20-30	4354.69
30-40	5060.21
40-50	4502.71
50-60	3040.37
60-70	1594.2
70-80	640.68
80-90	107.73
90-100	0.53
100-110	0.75
110-120	1.31
120-130	2.14
130-140	2.81
140-150	3.01
150-160	2.68
160-170	1.71
170-180	0.50

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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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	102	95	89	85	100	93	88	84	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C65-1-LSCS-ED-1-PCMD_4000K.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	24.5	25.9	24.8	26.3	26.6	23.5	25.0	23.9	25.3	25.6
	3H	25.2	26.5	25.6	26.8	27.2	24.1	25.4	24.5	25.7	26.1
	4H	25.4	26.7	25.8	27.0	27.4	24.2	25.5	24.6	25.8	26.2
	6H	25.6	26.7	26.0	27.1	27.5	24.3	25.4	24.7	25.8	26.2
	8H	25.6	26.6	26.0	27.0	27.4	24.3	25.4	24.7	25.8	26.2
	12H	25.6	26.6	26.0	27.0	27.4	24.3	25.3	24.7	25.7	26.1

UGR Viewed Endwise

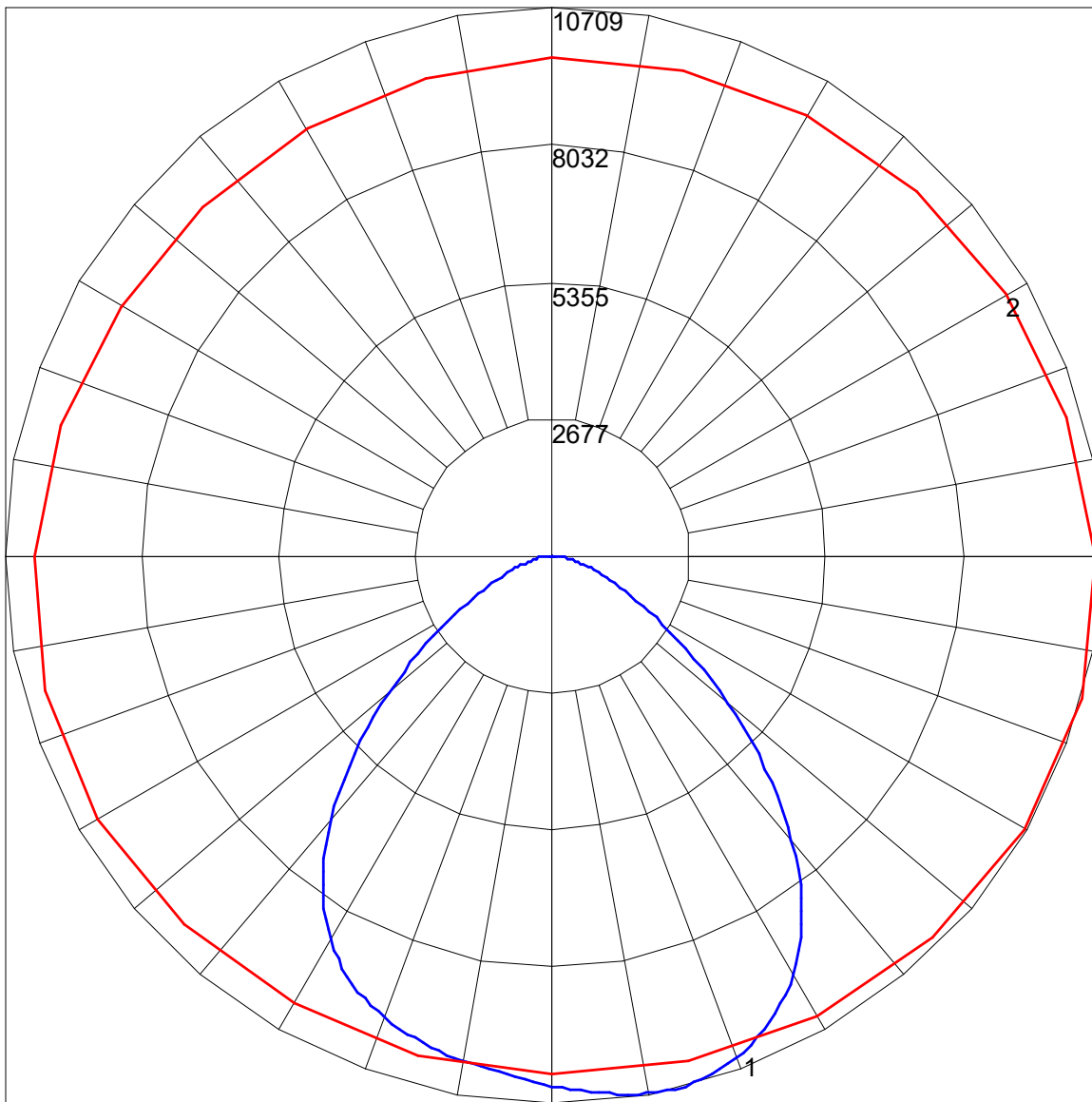
4H	2H	25.2	26.4	25.6	26.8	27.1	24.4	25.6	24.8	26.0	26.4
	3H	26.2	27.2	26.6	27.6	28.0	25.2	26.2	25.6	26.6	27.0
	4H	26.5	27.3	26.9	27.8	28.2	25.4	26.3	25.8	26.7	27.1
	6H	26.6	27.4	27.1	27.9	28.3	25.5	26.2	25.9	26.7	27.1
	8H	26.7	27.4	27.1	27.8	28.3	25.5	26.2	25.9	26.6	27.1
	12H	26.7	27.3	27.1	27.8	28.3	25.4	26.1	25.9	26.6	27.0

8H	4H	26.6	27.3	27.0	27.8	28.2	25.6	26.3	26.0	26.8	27.2
	6H	26.8	27.4	27.3	27.9	28.4	25.7	26.3	26.2	26.8	27.3
	8H	26.9	27.4	27.4	27.9	28.4	25.7	26.3	26.3	26.8	27.3
	12H	26.9	27.4	27.4	27.9	28.4	25.7	26.2	26.2	26.7	27.3

12H	4H	26.6	27.2	27.1	27.7	28.2	25.6	26.2	26.1	26.7	27.2
	6H	26.8	27.4	27.3	27.8	28.4	25.8	26.3	26.3	26.7	27.3
	8H	26.9	27.4	27.4	27.9	28.4	25.8	26.2	26.3	26.7	27.3

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 10709.07 Located At Horizontal Angle = 345, Vertical Angle = 13
1 - Vertical Plane Through Horizontal Angles (345 - 165) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (13) (Through Max. Cd.)