



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SER-38P-PC-CA(120V 2700K)_IESNA2002.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] BEST TEST SERVICE SHENZHEN CO; LTD

[TESTDATE] 2016-09-26

[ISSUEDATE] 2016-09-26

[NEARFIELD]

[LAMPPOSITION]

[OTHER] GO-R5000_V2 SYSTEM

[MANUFAC] Blackjack lighting

[LUMINAIRE] SER-38P-PC-CA(120V 2700K)

[LAMP] SER-38P-PC-CA(120V 2700K)

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	66.84	66.84	3.43	3.43
[OTHER]	10- 20	218.52	285.36	14.65	14.65
[OTHER]	20- 30	314.59	599.95	30.79	30.79
[OTHER]	30- 40	331.69	931.64	47.82	47.82
[OTHER]	40- 50	290.63	1222.27	62.73	62.73
[OTHER]	50- 60	224.93	1447.20	74.28	74.28
[OTHER]	60- 70	150.08	1597.28	81.98	81.98
[OTHER]	70- 80	86.16	1683.44	86.40	86.40
[OTHER]	80- 90	48.11	1731.55	88.87	88.87
[OTHER]	90-100	41.35	1772.90	90.99	90.99
[OTHER]	100-110	41.64	1814.54	93.13	93.13
[OTHER]	110-120	37.12	1851.66	95.04	95.04
[OTHER]	120-130	29.36	1881.01	96.54	96.54
[OTHER]	130-140	26.28	1907.29	97.89	97.89
[OTHER]	140-150	23.69	1930.99	99.11	99.11
[OTHER]	150-160	13.65	1944.63	99.81	99.81
[OTHER]	160-170	3.43	1948.07	99.98	99.98
[OTHER]	170-180	0.33	1948.40	100.00	100.00
[OTHER]					

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SER-38P-PC-CA(120V 2700K)_IESNA2002.IES****CHARACTERISTICS**

Lumens Per Lamp	1948.4 (1 lamp)
Total Lamp Lumens	1948.4
Luminaire Lumens	1948
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	29.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.00 m
Luminous Width (90-270)	0.15 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3537	3565	3497
55	3060	2848	2597
65	2533	2352	1659
75	2315	2086	1111
85	3798	3396	1013

CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0	533.539	533.539	533.539	533.539	533.539	533.539	533.539	533.539	533.539	533.539
1	524.950	525.000	526.630	525.970	529.770	530.240	531.400	532.790	530.010	529.150
2	520.280	523.830	525.720	520.080	521.030	518.950	512.770	511.380	512.070	517.580
3	522.260	520.640	519.660	519.710	518.470	517.190	508.150	501.780	504.950	519.480
4	530.710	539.120	558.370	549.310	545.950	577.530	547.340	525.430	536.190	582.740
5	540.380	556.040	585.760	600.460	594.730	665.070	621.210	588.770	642.560	651.980
6	557.870	571.860	620.110	719.740	671.960	715.450	669.990	677.310	682.410	662.820
7	621.560	620.970	697.250	857.320	771.920	854.230	791.550	824.060	694.560	652.850
8	761.980	668.600	731.870	911.120	809.920	909.670	850.740	850.040	698.120	646.970
9	783.670	700.360	744.590	912.990	785.960	863.330	840.650	830.210	708.410	685.260
10	768.600	733.710	783.060	892.110	766.820	828.430	834.090	843.930	740.010	709.740
11	776.720	725.770	775.260	897.420	762.810	821.830	834.970	839.550	754.550	721.970
12	785.430	726.690	764.280	890.250	787.280	820.950	832.160	826.850	751.090	721.420
13	766.300	716.950	785.220	879.000	783.740	830.850	830.390	816.130	754.570	718.790
14	772.370	724.580	785.460	876.110	785.880	825.830	831.650	827.170	752.560	709.750
15	774.690	726.500	782.860	867.500	788.540	818.160	822.560	815.350	729.390	693.250
16	774.650	728.490	780.760	849.150	780.570	808.440	815.270	803.470	724.760	690.120
17	776.050	730.010	767.590	823.910	766.270	800.150	806.220	800.880	735.300	702.900
18	761.170	721.050	748.170	796.990	749.440	776.600	793.220	790.560	735.890	693.460
19	745.810	717.430	737.290	770.150	732.920	753.200	766.050	780.870	740.880	684.970
20	742.540	715.290	733.720	739.920	713.340	726.290	735.610	763.770	734.210	672.420
21	724.040	711.120	731.470	725.950	694.710	707.580	723.800	754.550	757.140	710.630
22	725.550	704.830	703.670	684.580	683.810	700.850	720.070	788.460	804.160	738.600
23	723.190	724.790	692.050	656.720	655.520	694.760	742.810	788.610	820.560	739.780
24	712.840	697.000	677.670	657.020	661.180	694.450	736.640	778.970	800.690	726.040
25	701.530	690.600	673.340	650.990	663.120	705.940	736.100	756.840	779.230	704.620
26	697.120	696.440	656.160	633.270	647.400	690.860	717.650	738.660	765.800	693.630
27	690.600	683.360	637.610	606.430	618.200	662.470	699.370	728.370	754.310	680.350
28	672.870	667.340	627.620	591.150	593.640	638.040	680.860	715.280	746.600	672.400
29	664.670	661.760	626.070	579.310	586.890	637.560	674.190	698.920	733.800	662.830
30	652.830	643.310	609.690	567.740	570.740	618.540	659.400	689.640	724.780	655.140
31	628.180	620.060	594.320	557.140	556.190	603.760	643.330	673.150	699.790	631.400
32	598.470	593.880	574.350	539.280	542.900	588.680	622.970	648.310	669.560	599.160
33	568.190	567.990	553.370	528.310	530.350	573.660	601.200	619.720	636.690	574.800
34	546.750	548.470	538.750	516.970	517.610	558.660	583.100	591.200	598.150	549.250
35	527.430	527.440	519.120	503.930	509.170	548.710	570.110	571.300	570.530	530.360
36	508.150	501.630	496.110	491.130	500.300	538.410	549.840	549.580	550.210	508.750
37	493.510	481.710	484.390	483.710	491.230	519.800	529.910	528.490	521.480	483.460
38	483.620	474.380	475.260	466.610	473.420	503.060	507.550	511.700	504.880	474.290
39	470.940	460.390	460.740	452.480	457.350	485.010	493.570	501.250	496.100	464.530
40	451.910	442.070	444.640	436.520	444.050	472.730	481.760	502.520	489.980	451.790
41	428.840	423.970	427.910	420.410	429.720	456.670	470.140	484.200	469.060	433.950
42	416.770	409.160	410.860	405.390	414.790	441.610	455.290	466.290	456.110	423.010
43	405.430	395.120	395.520	389.590	400.430	425.340	435.730	450.550	442.800	408.340
44	391.690	380.590	381.550	372.400	382.510	409.730	418.990	430.910	425.640	388.130
45	375.290	365.220	366.640	353.720	360.730	395.780	402.700	411.270	406.190	371.080
46	363.140	353.670	352.270	337.400	344.280	379.050	387.150	395.460	390.520	354.700
47	352.030	344.330	339.300	320.720	326.330	361.320	369.690	379.380	377.110	337.820
48	341.660	334.650	326.140	307.540	311.640	345.220	353.960	365.470	363.270	323.770
49	330.520	324.890	319.610	300.450	298.440	330.230	339.420	351.780	351.340	308.430
50	320.420	317.590	311.560	291.000	285.850	315.530	326.480	337.850	335.150	294.480
51	309.960	304.490	301.170	279.450	273.810	302.770	313.920	324.460	323.010	280.860
52	295.030	291.040	289.850	267.980	264.170	292.960	303.100	311.010	308.960	266.240
53	283.660	278.870	279.310	257.430	254.110	283.570	290.460	297.540	295.990	251.120

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CANDELA TABULATION - (Cont.)

54	273.380	268.140	267.900	245.380	241.600	271.480	276.890	283.780	281.870	237.320
55	263.410	257.130	257.440	234.160	229.950	260.260	265.310	271.560	268.410	223.510
56	252.920	246.990	245.860	223.560	218.200	248.730	252.970	257.970	254.360	212.460
57	243.670	237.460	236.410	213.410	207.260	239.080	240.620	245.640	242.010	200.810
58	233.100	227.740	227.210	203.190	196.570	228.950	230.260	234.920	230.430	185.880
59	222.790	217.950	217.590	193.820	186.500	218.850	220.250	224.590	219.430	172.120
60	211.690	208.060	208.040	184.490	176.500	209.260	209.690	213.470	207.960	159.420
61	200.450	198.050	198.630	175.210	167.400	199.480	199.300	202.310	196.810	147.520
62	189.400	187.270	188.870	165.890	158.490	190.060	188.690	191.470	186.390	135.280
63	179.100	177.450	178.730	156.850	149.860	181.360	179.220	181.870	175.170	123.910
64	169.820	168.090	169.390	147.530	141.490	173.460	169.650	172.940	164.510	113.630
65	160.620	158.870	160.090	138.800	132.870	165.440	160.700	163.140	155.120	105.210
66	152.190	150.470	152.050	131.170	125.900	157.820	152.120	154.380	146.470	98.010
67	144.060	142.400	143.750	124.000	118.950	150.010	143.260	145.980	138.200	91.220
68	136.750	135.130	136.910	116.990	111.860	142.430	135.920	138.290	130.060	84.190
69	129.270	127.630	129.610	109.860	104.480	134.700	128.790	130.630	121.880	77.740
70	122.170	120.470	122.700	102.970	97.660	127.370	121.630	122.720	114.000	71.230
71	115.050	113.430	115.700	95.310	90.980	120.000	114.130	115.100	106.330	64.690
72	108.440	107.140	109.200	88.640	84.530	113.360	107.620	108.410	98.990	58.840
73	101.930	100.880	102.730	82.340	78.430	106.790	101.230	101.880	91.820	53.330
74	95.670	95.080	96.570	76.690	72.460	100.870	95.090	96.040	85.300	47.880
75	89.900	89.370	90.670	71.020	67.020	94.980	88.850	89.930	79.270	43.160
76	84.210	83.910	84.960	66.100	61.790	89.410	83.190	84.240	73.490	38.830
77	79.120	78.720	79.600	61.700	57.470	84.120	78.420	78.750	68.220	34.950
78	74.160	73.890	74.800	57.460	53.440	79.350	73.380	74.020	62.940	31.330
79	69.580	69.560	70.510	53.410	49.800	75.000	68.260	68.930	58.360	26.950
80	65.530	65.350	66.430	49.600	46.140	71.140	63.690	63.740	54.150	24.020
81	61.720	61.620	62.670	46.270	43.160	67.390	59.880	60.000	50.450	21.490
82	58.190	58.170	58.950	43.300	40.380	63.800	56.340	56.830	46.760	19.180
83	54.970	55.060	55.830	40.580	37.830	60.710	53.350	53.820	43.250	17.090
84	52.130	52.260	53.020	38.190	35.500	57.750	50.630	50.920	39.790	15.080
85	49.670	49.800	50.600	36.250	33.550	55.290	48.360	48.480	37.010	13.250
86	47.480	47.630	48.470	34.370	31.690	53.170	46.250	46.360	34.940	11.860
87	45.620	45.790	46.680	32.910	30.230	51.420	44.340	44.480	33.090	10.750
88	44.330	44.500	45.270	31.680	29.070	50.030	42.680	43.140	31.690	9.920
89	43.520	43.570	44.400	30.800	28.280	49.090	41.490	42.200	30.570	9.330
90	43.260	43.320	44.090	30.420	27.930	48.660	40.800	41.860	29.950	8.980
91	43.250	43.320	44.080	30.330	27.830	48.630	40.650	41.760	29.670	8.870
92	43.460	43.500	44.260	30.350	27.810	48.610	40.640	41.750	29.490	8.870
93	43.940	43.980	44.740	30.690	27.840	48.870	41.050	41.830	29.430	8.870
94	44.420	44.420	45.150	31.010	28.040	49.110	41.490	41.990	29.430	8.870
95	44.970	44.890	45.620	31.440	28.300	49.450	41.800	42.220	29.590	8.870
96	45.400	45.310	46.050	31.770	28.460	49.770	42.150	42.400	30.050	8.870
97	45.870	45.820	46.500	32.030	28.710	50.080	42.300	42.620	30.490	8.870
98	46.340	46.290	46.960	32.310	28.920	50.370	42.490	43.060	31.030	8.870
99	46.800	46.780	47.340	32.630	29.240	50.600	42.640	43.520	31.350	8.890
100	47.230	47.240	47.780	32.900	29.490	50.910	42.880	43.770	31.590	8.870
101	47.640	47.650	48.160	33.150	29.630	51.160	43.180	43.930	31.630	8.850
102	48.170	48.180	48.590	33.510	29.800	51.320	43.450	43.780	31.620	8.830
103	48.620	48.590	49.040	33.920	30.010	51.530	43.810	42.930	31.490	8.830
104	49.060	48.950	49.440	34.220	30.240	51.890	43.980	41.840	31.140	8.810
105	49.350	49.310	49.680	34.520	30.370	52.060	44.060	38.190	29.720	8.830
106	49.710	49.600	50.030	34.740	30.590	52.370	43.730	34.880	27.640	8.870
107	50.060	49.980	50.530	35.050	30.890	52.540	42.860	34.720	27.290	8.850
108	50.530	50.430	50.960	35.490	31.200	52.660	41.540	35.000	27.530	8.830
109	50.910	50.840	51.320	35.790	31.460	52.440	39.840	34.120	26.650	8.680

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CANDELA TABULATION - (Cont.)

110	51.320	51.180	51.600	36.080	31.690	51.920	38.030	33.570	25.220	8.490
111	51.600	51.510	51.910	36.390	31.780	50.740	35.630	34.580	25.080	8.250
112	51.880	51.920	52.230	36.760	31.880	49.140	33.670	36.770	25.820	8.120
113	52.140	52.180	52.420	37.220	32.040	46.940	32.680	37.230	26.030	8.110
114	52.300	52.370	52.630	37.280	32.050	44.480	33.280	37.150	24.850	8.110
115	52.410	52.420	52.720	37.300	31.830	41.830	34.830	36.930	23.890	8.200
116	52.580	52.570	52.580	37.250	30.980	39.290	35.810	38.040	23.330	8.370
117	52.530	52.430	51.930	36.900	30.420	37.240	36.940	39.920	23.930	8.480
118	52.150	51.940	51.110	35.940	29.870	35.510	37.790	41.850	25.740	8.740
119	51.690	51.220	49.990	34.730	28.850	34.300	37.710	42.590	27.070	8.790
120	50.990	50.350	48.450	33.740	27.480	33.960	37.110	42.680	27.440	8.790
121	49.810	48.990	46.760	32.840	26.530	34.450	36.000	42.130	26.780	8.790
122	48.520	47.560	45.070	31.610	25.820	35.690	34.570	40.630	25.560	8.520
123	47.190	46.160	42.710	30.860	25.070	37.320	34.170	38.380	23.790	8.160
124	45.600	44.410	39.570	29.810	24.780	38.640	35.240	36.100	21.160	7.370
125	43.840	42.400	37.290	29.210	24.920	39.480	37.200	34.090	18.410	6.760
126	41.370	40.200	35.020	28.680	25.120	40.980	38.740	33.060	15.870	6.250
127	39.630	38.130	33.950	28.510	25.400	42.610	40.130	33.010	14.320	5.740
128	37.710	36.830	33.730	28.420	25.520	44.750	41.330	32.420	14.090	5.480
129	37.070	36.350	34.130	28.750	25.760	46.840	42.990	31.180	14.080	5.470
130	37.080	36.300	35.340	28.840	26.300	47.480	44.580	30.800	13.770	5.470
131	37.650	37.280	37.140	28.470	27.350	49.140	45.510	30.290	14.110	5.480
132	38.800	38.540	38.340	28.660	28.750	49.810	46.150	30.420	15.110	5.470
133	40.850	40.060	38.710	28.770	30.630	49.850	46.190	30.110	16.390	5.450
134	41.730	39.900	39.720	29.270	31.590	49.980	46.190	30.370	17.120	5.450
135	42.100	40.650	40.550	30.370	32.250	50.420	45.670	30.530	18.590	5.600
136	43.010	41.370	41.960	31.780	33.540	50.780	44.630	30.390	19.690	5.860
137	44.430	42.520	42.920	33.410	34.640	50.210	43.200	30.480	19.770	6.290
138	45.470	43.300	45.000	34.550	35.100	49.600	41.780	30.170	20.120	6.690
139	46.690	45.000	46.870	36.130	35.770	49.550	40.150	29.520	20.290	6.730
140	48.890	46.900	47.890	38.370	36.920	49.530	38.410	29.000	18.770	6.640
141	50.720	48.310	49.000	40.240	38.500	49.120	36.440	28.620	17.300	6.620
142	51.820	48.860	50.730	41.310	38.910	48.740	34.900	28.280	16.530	6.700
143	53.030	50.580	52.430	42.610	39.200	48.180	33.710	27.600	16.280	6.840
144	55.090	52.660	53.360	44.460	39.870	47.860	32.330	27.230	15.640	6.820
145	56.900	54.180	54.210	45.190	40.420	47.420	31.110	25.980	14.760	6.820
146	57.920	55.130	55.560	45.370	41.280	46.050	30.030	24.050	13.900	6.820
147	59.080	56.890	55.770	45.390	41.600	44.070	29.310	20.390	12.740	6.760
148	60.490	57.850	55.550	45.410	41.610	41.720	29.050	15.980	11.990	6.460
149	60.600	57.900	55.160	45.180	41.190	39.750	28.360	12.580	11.140	6.020
150	60.350	57.900	54.690	44.740	40.310	38.060	27.450	10.130	10.480	5.810
151	59.990	57.690	53.940	43.970	39.160	36.600	26.740	8.010	9.770	5.520
152	59.390	56.890	52.790	42.920	37.630	35.220	26.570	7.200	8.640	5.280
153	58.220	55.600	51.460	41.750	35.910	33.870	26.280	7.840	7.300	5.010
154	56.820	54.100	49.840	40.200	34.280	32.430	25.620	9.770	6.340	4.740
155	54.980	52.310	47.610	37.940	32.580	31.260	23.730	12.070	5.410	4.050
156	52.540	49.970	44.880	35.480	30.780	30.070	20.150	13.360	4.780	3.540
157	49.630	47.010	41.520	32.720	28.950	28.970	15.140	13.190	3.440	2.430
158	45.990	43.470	37.980	30.310	27.100	27.960	10.270	13.560	2.670	1.770
159	41.810	39.520	34.430	28.310	25.660	26.350	6.470	13.580	2.600	1.770
160	37.770	35.740	31.260	26.460	24.350	24.300	4.580	13.500	2.810	2.030
161	33.970	32.140	28.030	24.420	23.210	20.150	4.850	12.230	3.240	2.320
162	30.320	28.810	25.290	22.560	22.210	14.460	7.200	10.960	3.260	2.250
163	26.690	25.840	23.020	20.970	20.720	8.630	9.660	8.950	2.860	2.020
164	23.900	23.100	20.870	19.960	17.510	4.050	10.790	6.380	2.520	1.800
165	21.500	21.140	19.720	18.390	12.040	2.720	9.990	4.440	2.340	1.710

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

166	19.830	19.710	18.150	14.980	6.310	4.770	8.410	3.230	2.210	1.520
167	17.830	17.430	14.950	9.430	2.540	7.500	6.970	2.380	1.970	1.510
168	13.750	12.630	9.390	4.250	3.030	9.680	5.880	2.200	1.820	1.550
169	7.470	6.480	3.860	2.290	5.370	9.420	4.770	2.210	1.800	1.650
170	2.390	2.270	2.340	4.460	7.490	7.170	4.110	2.320	1.960	1.730
171	2.610	3.900	5.450	7.400	7.570	5.220	3.060	2.380	1.980	1.780
172	5.950	7.570	8.490	7.490	5.920	4.150	2.530	2.430	1.980	1.780
173	7.030	8.080	7.810	5.920	4.190	3.000	2.370	2.410	2.000	1.780
174	5.160	5.530	5.360	4.050	3.000	2.470	2.350	2.410	2.090	1.780
175	3.070	3.080	2.840	2.430	2.440	2.420	2.370	2.410	2.320	1.780
176	1.710	1.730	1.820	2.140	2.380	2.400	2.390	2.410	2.320	1.780
177	1.550	1.600	1.700	2.080	2.380	2.400	2.570	2.410	2.320	1.780
178	1.510	1.580	1.640	2.040	2.380	2.420	2.610	2.380	2.300	1.780
179	1.510	1.560	1.640	2.000	2.400	2.440	2.600	2.290	2.260	1.780
180	1.510	1.510	1.510	1.510	1.510	1.510	1.510	1.510	1.510	1.510

Vert. Angles Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	533.539	533.539	533.539	533.539	533.539	533.539	533.539	533.539	533.539	533.539
1	532.940	530.770	529.640	531.460	531.380	532.070	533.410	530.760	532.820	533.760
2	519.840	519.230	520.520	522.730	525.590	523.780	521.680	522.560	521.250	526.270
3	520.170	520.500	515.780	511.220	516.980	520.300	515.530	518.560	517.790	541.170
4	575.580	563.860	539.830	526.810	523.120	532.230	528.050	529.760	537.150	566.960
5	634.590	688.550	610.600	572.620	568.880	604.490	580.630	575.270	574.980	603.750
6	632.830	750.060	684.900	702.910	674.750	695.110	741.610	659.880	655.940	730.930
7	615.780	782.570	807.480	897.530	849.280	864.180	768.670	735.200	727.570	803.390
8	637.980	851.980	820.090	886.770	893.440	872.580	783.590	779.500	761.840	821.590
9	671.790	863.460	824.240	847.930	816.960	845.640	762.000	766.700	769.140	835.740
10	656.930	844.320	835.110	833.800	782.540	826.100	754.440	770.730	788.080	851.730
11	677.050	817.400	819.070	841.370	800.770	833.390	755.880	770.830	786.770	834.630
12	688.580	800.560	809.190	833.420	813.690	834.630	754.490	776.710	772.320	811.730
13	689.170	803.480	813.900	834.200	806.330	822.600	765.860	773.070	763.370	793.490
14	692.150	799.240	818.650	835.310	808.280	817.780	772.140	771.860	765.920	787.310
15	690.380	793.800	813.540	826.540	807.610	816.300	771.350	770.700	770.520	782.730
16	692.560	778.970	788.380	813.630	802.870	805.200	766.270	764.710	774.330	784.160
17	696.170	757.690	765.290	800.130	780.930	786.210	756.420	756.630	759.910	760.340
18	695.410	749.190	748.810	782.170	769.600	760.380	731.310	744.090	735.170	719.270
19	687.490	724.780	732.530	770.890	763.450	744.130	709.640	712.930	698.330	695.030
20	678.270	693.040	706.710	749.270	742.330	715.190	694.150	686.950	685.820	687.960
21	687.110	684.390	701.780	722.950	696.730	684.610	684.140	685.630	698.160	707.910
22	696.990	681.750	677.760	679.630	654.140	657.070	691.840	716.510	702.340	703.650
23	701.190	677.440	656.200	652.860	657.750	669.540	683.640	712.600	705.840	715.870
24	685.550	656.090	653.220	662.290	654.890	669.550	690.230	720.160	706.530	713.240
25	666.450	642.660	642.880	651.180	651.670	659.510	683.450	704.000	691.080	710.700
26	663.160	639.320	634.690	635.930	630.400	643.170	671.190	692.520	680.860	692.970
27	660.490	630.540	624.190	618.410	603.370	621.860	665.570	693.890	677.300	676.370
28	650.100	609.960	604.310	600.610	594.060	616.260	659.200	690.580	673.990	661.370
29	638.030	603.870	596.900	589.790	585.470	597.670	639.480	670.160	657.230	651.170
30	625.970	590.000	579.050	568.380	567.120	586.820	626.430	657.100	644.980	636.350
31	604.850	574.410	563.950	549.440	553.870	576.900	611.170	637.840	623.760	619.390
32	584.110	556.270	544.770	531.290	532.180	561.080	589.180	611.010	600.260	590.450
33	566.960	542.120	522.060	511.150	512.900	541.330	571.380	585.750	577.520	563.860
34	552.970	530.160	506.870	492.300	490.960	518.910	545.680	557.560	548.300	539.540
35	534.540	517.630	493.730	479.420	476.670	500.080	524.230	525.540	521.420	513.440
36	514.330	499.120	480.180	475.010	472.300	487.910	501.190	499.980	499.700	491.880

CANDELA TABULATION - (Cont.)

37	495.570	482.770	469.260	465.940	460.630	467.030	475.850	484.870	481.890	471.410
38	489.320	474.330	454.670	446.840	442.980	449.430	457.700	468.830	462.840	458.700
39	476.100	469.050	445.990	429.430	422.090	432.970	441.930	456.000	455.260	452.600
40	461.140	456.290	437.470	423.050	412.370	417.880	429.410	449.140	448.000	435.770
41	447.100	442.600	427.190	417.360	407.640	411.150	414.490	428.920	427.370	418.940
42	429.130	427.810	415.450	407.150	399.240	397.930	399.430	410.000	406.550	404.700
43	415.790	415.410	401.810	393.090	384.450	379.250	384.180	393.470	391.820	389.120
44	401.370	401.570	388.470	379.440	370.440	365.550	370.860	380.470	377.580	372.040
45	383.680	385.050	376.250	368.480	358.830	351.580	354.840	365.030	364.180	358.720
46	367.480	371.620	361.310	353.310	345.460	338.210	342.820	352.690	351.740	348.610
47	352.980	356.330	344.760	337.610	328.470	324.360	331.100	339.890	338.050	338.190
48	341.750	344.820	330.180	322.040	313.870	311.870	320.910	329.740	328.820	329.310
49	332.180	336.610	319.600	310.350	298.910	300.180	311.780	320.550	320.890	319.360
50	318.000	321.010	308.160	300.630	286.920	288.300	301.370	311.740	312.910	310.450
51	305.160	308.440	293.790	287.750	274.680	277.130	290.690	303.240	304.940	306.010
52	291.940	294.840	279.630	275.690	263.860	266.450	280.820	294.280	294.930	295.610
53	276.810	279.170	267.170	265.420	252.360	255.980	270.210	280.290	280.860	283.660
54	262.650	263.640	255.090	254.950	242.830	244.990	259.160	268.170	267.230	270.650
55	249.810	249.990	242.710	244.950	232.620	233.650	248.190	255.850	255.120	256.590
56	240.100	240.250	232.770	233.980	220.330	222.540	236.980	244.600	244.560	244.870
57	231.540	231.650	221.760	222.590	208.760	211.040	226.210	233.410	233.090	233.700
58	219.230	220.160	211.760	212.540	198.920	200.210	215.430	221.910	222.000	222.050
59	207.450	209.090	201.780	203.070	190.180	190.050	205.440	210.960	211.170	212.230
60	196.840	199.140	191.740	193.340	180.720	180.090	195.220	199.980	200.590	202.390
61	186.250	189.560	181.730	184.550	171.790	169.460	185.190	189.740	190.490	191.980
62	176.050	180.050	173.900	176.870	163.680	161.230	176.190	180.860	181.030	181.640
63	166.360	170.960	165.930	168.490	156.170	152.740	166.540	170.270	170.720	171.350
64	157.410	162.570	157.530	160.980	147.900	144.990	157.020	161.090	160.990	161.790
65	148.910	153.790	149.390	153.140	140.090	136.430	147.780	151.600	152.210	153.350
66	140.790	146.000	142.190	144.890	132.510	128.410	139.640	143.490	143.280	144.660
67	132.710	138.400	135.230	137.400	124.100	120.140	132.380	135.500	135.980	137.430
68	124.940	130.750	127.590	130.050	115.910	112.190	124.810	128.150	128.770	129.730
69	116.300	123.600	119.980	123.180	108.770	104.780	118.010	121.290	121.620	122.690
70	108.930	116.580	112.650	115.840	102.370	98.050	111.150	114.610	114.610	115.750
71	101.790	109.730	105.780	108.790	95.920	91.590	104.540	107.710	107.770	109.080
72	94.870	102.820	99.210	102.410	89.440	84.780	98.360	101.160	101.380	102.410
73	89.110	97.110	92.890	96.940	83.060	78.720	92.230	94.760	94.690	95.890
74	83.600	91.650	87.420	91.750	77.430	73.000	86.640	88.800	88.930	89.870
75	78.440	86.330	82.480	86.230	72.180	67.760	81.300	83.180	83.260	83.890
76	73.610	80.970	77.640	81.130	67.260	62.960	76.210	78.160	78.070	78.550
77	68.830	75.840	72.620	76.260	62.330	58.570	71.420	73.290	72.930	73.310
78	64.170	70.700	67.760	71.720	57.840	54.160	67.330	68.890	68.430	68.830
79	59.970	66.610	63.660	67.960	54.110	50.120	63.150	64.610	64.150	64.420
80	56.090	63.000	60.000	64.330	50.680	46.450	59.500	60.900	60.460	60.760
81	52.520	59.460	56.320	60.990	47.430	43.230	56.100	57.450	56.830	57.230
82	49.570	56.240	53.020	57.930	44.430	40.300	53.000	54.120	53.560	53.980
83	46.740	53.370	50.130	55.300	41.940	37.860	50.330	51.460	50.720	51.280
84	43.540	51.020	47.660	52.670	39.510	35.730	47.930	48.760	48.150	48.590
85	41.580	49.100	45.820	50.800	37.630	34.060	46.080	46.780	46.240	46.470
86	39.840	47.250	44.260	49.080	35.790	32.280	44.300	44.960	44.440	44.680
87	38.610	45.680	42.920	47.470	34.370	30.900	42.860	43.570	43.060	43.280
88	37.230	44.420	41.740	46.530	33.250	29.740	41.940	42.610	42.050	42.250
89	36.230	43.340	40.830	45.690	32.610	29.030	41.300	41.930	41.420	41.520
90	35.850	43.010	40.480	45.560	32.630	28.900	41.230	41.920	41.440	41.540
91	35.750	43.080	40.470	45.680	32.680	28.960	41.410	42.120	41.670	41.760
92	35.750	43.320	40.470	45.940	32.860	29.300	41.730	42.450	41.990	42.180

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CANDELA TABULATION - (Cont.)

93	35.760	43.430	40.600	46.290	33.180	29.590	42.120	43.000	42.490	42.700
94	35.770	43.750	40.730	46.700	33.540	29.910	42.630	43.360	42.960	43.050
95	35.860	43.900	41.010	47.040	33.710	30.250	43.080	43.860	43.470	43.570
96	35.890	43.960	41.260	47.390	33.900	30.530	43.540	44.410	43.990	44.000
97	35.990	44.030	41.530	47.860	34.230	30.720	44.010	44.980	44.520	44.510
98	36.230	44.120	41.830	48.190	34.510	30.880	44.520	45.440	45.030	45.020
99	36.730	44.250	42.150	48.470	34.620	31.070	44.900	45.910	45.430	45.510
100	37.160	44.250	42.450	48.820	34.850	31.250	45.200	46.420	45.900	45.890
101	37.220	44.250	42.780	49.120	35.090	31.560	45.540	46.920	46.280	46.380
102	37.030	44.120	42.940	49.570	35.410	31.880	45.890	47.210	46.730	46.810
103	36.340	43.640	43.020	49.860	35.560	31.950	46.240	47.560	47.160	47.240
104	35.250	42.770	43.090	50.140	35.650	32.180	46.650	47.960	47.560	47.640
105	33.560	40.700	43.110	50.540	35.900	32.370	47.110	48.420	48.040	48.040
106	30.810	38.080	43.090	51.000	36.260	32.700	47.580	49.020	48.600	48.570
107	29.990	35.800	43.060	51.160	36.660	32.990	47.980	49.530	49.050	49.000
108	32.000	33.970	42.420	51.200	36.900	33.320	48.470	49.930	49.330	49.350
109	31.970	32.550	41.290	51.120	36.940	33.550	48.730	50.190	49.650	49.740
110	30.180	32.530	40.580	50.830	37.010	33.660	48.850	50.490	49.930	50.000
111	28.530	34.130	38.520	50.260	36.990	33.750	49.070	50.690	50.150	50.280
112	28.790	36.220	36.130	48.960	36.990	33.790	49.240	50.920	50.360	50.530
113	29.530	37.200	34.210	47.060	37.010	33.790	49.400	51.070	50.620	50.640
114	29.060	37.590	32.870	45.290	36.870	33.620	49.440	51.310	50.770	50.700
115	28.570	37.630	31.960	43.640	36.560	33.620	49.350	51.310	50.750	50.700
116	27.740	39.180	32.230	41.220	35.940	33.490	49.170	51.310	50.710	50.590
117	28.070	41.320	33.320	39.030	35.100	33.100	48.870	51.150	50.650	50.420
118	29.160	43.150	34.510	36.270	33.690	32.550	48.600	50.860	50.360	50.180
119	30.500	43.260	35.040	33.320	31.810	31.810	47.810	50.510	50.120	49.790
120	30.460	42.920	34.430	30.530	30.120	31.030	46.350	49.670	49.450	48.690
121	30.040	41.800	33.320	29.100	28.400	30.180	44.640	48.070	48.270	46.910
122	29.120	39.550	32.540	29.910	26.620	29.290	42.580	46.140	46.460	45.030
123	27.690	37.390	32.720	31.950	25.320	28.380	40.660	44.190	44.770	43.190
124	25.850	35.630	34.510	34.550	24.100	27.460	38.640	42.320	42.920	41.350
125	23.920	34.670	36.430	37.240	22.940	26.070	37.220	40.300	41.100	39.580
126	22.430	34.710	38.280	39.440	22.970	24.640	36.590	38.540	39.660	38.440
127	21.650	34.680	39.680	42.290	23.410	23.060	34.930	37.510	38.920	37.830
128	21.550	34.420	40.540	44.120	24.510	21.220	33.730	35.720	37.620	36.230
129	21.110	34.260	41.580	45.840	26.310	20.100	32.390	34.410	36.440	35.060
130	19.990	34.000	42.290	47.330	27.810	20.120	31.180	32.780	35.120	33.960
131	18.480	33.520	43.910	47.970	29.650	20.520	31.090	31.930	34.320	33.340
132	16.920	33.540	45.340	48.510	31.050	21.770	32.000	32.010	34.150	33.610
133	15.950	33.820	46.310	49.100	31.900	23.100	33.550	33.420	35.520	35.310
134	14.840	34.310	47.080	49.600	32.930	25.010	35.360	35.360	37.530	37.030
135	14.720	34.270	46.930	49.530	34.100	26.880	37.180	37.440	39.510	39.070
136	14.580	34.160	46.300	49.540	35.420	28.250	39.070	40.140	42.030	41.040
137	14.290	33.650	45.240	49.540	36.680	29.770	41.220	42.330	44.060	43.260
138	14.600	32.800	44.160	49.590	37.920	31.060	42.730	45.130	46.620	45.590
139	15.340	31.960	42.930	49.370	39.330	32.600	44.090	46.910	48.680	46.820
140	16.050	31.330	41.790	49.110	39.560	34.230	45.850	48.510	49.860	48.500
141	16.970	30.890	41.040	48.690	39.680	36.070	47.140	50.330	51.720	50.080
142	17.540	30.670	40.570	48.660	39.930	37.910	48.580	51.770	53.260	51.350
143	17.220	30.180	39.600	48.410	40.460	38.980	49.480	53.200	54.610	52.630
144	16.700	30.010	38.250	48.280	41.090	39.780	50.680	54.380	55.900	53.610
145	16.240	29.100	36.720	47.680	41.640	40.110	51.050	56.040	57.280	55.110
146	14.990	26.980	35.490	46.820	41.710	40.170	51.450	56.880	58.420	55.970
147	13.430	24.440	34.440	45.540	41.990	40.170	51.430	57.510	58.900	56.360
148	11.980	20.690	33.260	44.480	41.940	40.170	51.150	57.510	58.820	56.360

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CANDELA TABULATION - (Cont.)

149	10.590	16.380	32.300	43.420	41.430	40.240	50.900	57.290	58.670	56.320
150	9.780	11.780	31.580	41.510	40.440	40.310	50.540	56.870	58.410	56.050
151	9.100	8.290	31.040	38.790	39.250	40.160	50.500	56.340	58.030	55.650
152	8.100	6.080	30.850	36.170	38.200	39.790	49.970	56.090	57.190	55.470
153	6.960	5.260	29.440	33.330	37.450	39.260	48.680	55.400	56.520	54.850
154	5.580	7.080	26.820	30.980	35.580	38.280	46.850	53.880	55.320	53.730
155	4.430	9.810	23.500	29.460	33.440	36.900	45.050	51.500	53.440	51.730
156	3.510	11.870	18.540	28.310	31.610	35.200	43.040	49.240	50.690	49.450
157	2.180	13.700	12.900	27.260	29.690	33.070	40.550	46.020	47.410	46.560
158	1.700	13.670	8.020	27.010	27.810	31.100	37.840	42.790	44.270	43.490
159	1.390	11.530	4.950	25.220	26.210	28.840	34.990	39.730	41.510	40.140
160	1.260	9.490	4.940	19.910	25.060	26.850	31.960	35.860	37.790	36.370
161	1.280	6.810	7.380	12.300	24.050	25.540	28.420	31.810	33.290	31.940
162	1.320	4.990	9.320	5.870	21.570	23.690	25.400	27.770	29.670	28.360
163	1.350	3.650	10.040	2.900	15.840	21.850	23.050	24.520	25.720	24.840
164	1.370	2.690	9.300	3.990	8.770	19.250	20.850	21.280	22.500	21.500
165	1.410	2.010	7.450	7.230	3.590	13.490	18.780	19.440	19.500	18.840
166	1.520	1.860	5.180	8.460	2.550	6.940	14.410	17.610	17.570	17.370
167	1.520	1.900	3.520	7.270	4.810	2.660	7.950	12.590	14.050	13.700
168	1.540	1.970	2.400	5.810	7.670	2.820	2.900	6.290	8.120	7.950
169	1.610	1.990	2.180	4.890	7.680	6.410	2.740	2.220	2.900	2.890
170	1.710	2.030	2.220	3.790	6.890	8.880	5.200	2.830	1.760	2.070
171	1.730	2.180	2.310	2.850	5.140	6.820	7.020	6.290	4.320	5.030
172	1.710	2.330	2.290	2.600	3.410	4.970	6.130	7.230	6.560	7.040
173	1.710	2.290	2.230	2.550	2.590	3.160	4.180	5.580	5.810	6.100
174	1.710	2.310	2.110	2.570	2.330	2.120	2.650	3.620	4.010	4.090
175	1.710	2.270	2.130	2.550	2.370	1.910	1.710	2.170	2.310	2.330
176	1.710	2.250	2.130	2.590	2.330	1.930	1.660	1.510	1.550	1.470
177	1.710	2.120	2.240	2.570	2.330	1.930	1.710	1.510	1.570	1.470
178	1.710	2.050	2.220	2.570	2.330	2.080	1.750	1.490	1.550	1.470
179	1.690	2.010	2.220	2.590	2.330	2.080	1.730	1.510	1.550	1.470
180	1.510	1.510	1.510	1.510	1.510	1.510	1.510	1.510	1.510	1.510

Vert. Angles Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	533.539	533.539	533.539	533.539	533.539	533.539	533.539	533.539	533.539	533.539
1	536.040	532.700	532.040	530.970	527.200	528.580	523.870	524.870	520.920	518.060
2	536.300	533.020	528.130	527.950	524.420	523.560	525.300	523.540	520.160	519.700
3	597.890	573.470	530.940	523.140	519.530	520.280	527.090	524.080	518.020	516.400
4	607.400	571.590	543.040	530.230	528.660	529.290	540.900	529.960	522.370	519.430
5	640.960	592.180	646.450	610.750	553.720	567.430	588.420	557.850	541.720	539.560
6	761.890	704.290	740.580	729.020	627.890	643.340	682.880	629.780	580.360	615.870
7	811.300	781.100	830.230	841.260	682.350	691.020	762.780	700.790	656.730	709.250
8	804.930	776.760	886.860	882.040	718.400	724.560	818.490	782.760	734.430	773.600
9	813.350	795.290	899.800	860.060	744.340	774.580	836.250	826.600	764.570	796.710
10	824.450	819.350	888.730	843.910	730.780	773.740	835.110	819.060	751.360	789.150
11	820.690	810.600	871.450	854.130	745.440	750.080	814.430	798.350	744.260	787.520
12	817.540	811.710	873.070	860.080	748.590	741.250	790.970	782.020	735.700	767.710
13	813.470	808.140	856.710	841.270	764.880	765.220	800.720	779.750	737.900	782.590
14	815.030	791.920	826.490	842.650	766.040	762.300	801.650	791.810	755.270	786.280
15	803.750	779.550	817.340	854.140	765.410	754.570	809.940	786.550	764.770	778.590
16	794.140	767.990	804.520	848.370	767.070	745.100	792.980	774.420	755.140	771.310
17	767.720	754.210	795.390	827.020	748.700	737.280	778.530	765.110	750.090	761.010
18	724.660	738.980	784.570	802.010	728.310	717.130	752.790	752.290	748.820	752.370
19	700.900	720.470	765.230	778.180	715.480	702.920	732.090	724.540	736.730	743.980

CANDELA TABULATION - (Cont.)

20	686.410	702.500	734.850	743.780	690.460	687.910	710.530	701.370	720.170	726.780
21	696.400	683.660	700.950	701.280	655.880	671.490	709.940	700.240	714.200	715.500
22	713.460	703.610	700.910	671.670	647.550	652.620	684.820	740.350	761.530	737.420
23	733.910	742.770	711.120	657.610	664.020	667.820	667.980	740.340	795.840	764.060
24	743.830	743.410	705.250	661.730	672.080	653.680	658.720	710.970	769.630	770.990
25	731.610	732.570	701.600	654.410	652.190	635.070	636.720	686.510	738.170	737.150
26	709.180	710.150	671.830	630.200	634.730	627.020	626.440	673.510	723.540	719.740
27	686.270	678.590	647.380	608.090	617.080	615.890	621.660	663.400	713.790	701.910
28	668.040	656.090	624.900	596.660	610.970	602.050	600.690	648.080	695.800	691.170
29	657.520	647.310	614.360	588.870	604.290	590.300	587.550	626.500	675.600	680.800
30	642.050	632.870	603.360	575.880	584.010	580.040	576.180	612.330	659.710	663.670
31	621.100	614.070	588.060	565.780	571.520	569.550	563.860	598.550	643.980	655.410
32	589.150	592.730	571.350	552.230	556.750	546.510	537.520	569.600	618.260	634.830
33	558.880	559.520	546.740	535.590	540.250	527.850	517.150	542.880	592.990	610.170
34	543.160	537.900	522.380	517.770	526.430	519.370	500.500	526.560	567.490	581.490
35	520.870	525.100	507.540	503.770	512.220	506.470	484.540	500.880	542.420	561.440
36	499.860	499.040	494.090	495.290	501.350	494.170	469.990	476.540	510.610	548.030
37	483.680	481.960	478.580	486.310	486.520	478.360	462.810	462.050	491.590	530.900
38	480.680	468.120	454.720	465.240	471.070	462.420	453.360	456.990	482.930	513.920
39	461.170	447.520	435.260	445.520	449.060	450.930	441.130	443.310	473.820	500.190
40	443.540	428.780	421.140	432.150	434.250	436.960	422.160	421.680	458.660	487.580
41	429.950	419.210	415.700	424.820	423.200	421.900	406.040	402.980	440.350	469.810
42	417.990	406.540	400.170	410.820	412.000	410.330	393.550	386.680	421.210	451.690
43	400.510	390.680	387.930	398.320	398.160	397.890	379.130	375.160	407.340	436.280
44	386.920	376.940	374.320	384.990	382.380	382.950	362.070	354.930	396.190	421.140
45	370.390	362.790	361.280	371.390	366.430	363.400	344.410	335.210	380.870	405.570
46	360.830	353.500	351.640	360.140	352.590	349.960	330.930	318.850	364.770	388.720
47	351.400	340.960	337.430	347.740	341.870	337.860	316.000	304.410	351.580	373.870
48	337.490	325.220	321.090	333.800	329.350	326.560	304.490	292.350	341.770	358.060
49	324.510	309.540	305.260	316.290	314.750	317.040	297.050	282.810	332.450	342.920
50	314.760	298.250	291.410	302.910	303.340	306.860	289.240	272.040	322.460	328.450
51	307.300	287.260	279.680	293.000	291.790	296.900	279.130	261.320	308.780	313.790
52	297.300	278.900	271.970	285.110	282.530	284.920	270.540	252.060	298.170	300.980
53	284.460	266.150	261.620	275.060	272.920	273.690	261.290	243.470	287.160	289.810
54	269.780	253.580	249.860	265.150	262.640	263.100	253.180	232.300	274.230	278.980
55	258.220	241.550	236.100	253.760	251.170	252.300	244.730	221.820	263.830	267.880
56	246.520	229.840	224.980	242.120	239.390	241.560	233.560	211.170	252.230	253.540
57	234.710	218.800	214.950	231.350	228.160	229.950	222.160	201.390	240.880	241.230
58	223.320	207.790	204.090	221.070	217.870	219.390	210.850	189.690	230.240	230.530
59	212.960	197.190	192.950	209.800	208.240	209.590	199.710	177.980	218.990	219.120
60	204.330	187.220	183.100	199.860	198.090	200.970	190.440	166.330	209.920	208.810
61	193.560	177.200	174.090	189.870	188.240	191.740	180.970	155.310	200.760	199.520
62	183.230	167.480	165.140	181.520	179.470	183.050	171.310	141.220	190.790	190.570
63	172.950	157.380	155.050	172.500	170.610	172.600	160.180	126.720	179.520	181.770
64	163.770	148.720	145.820	163.640	162.060	163.590	150.520	114.650	168.480	173.460
65	154.760	140.640	137.140	155.660	152.730	155.150	140.940	102.700	158.400	164.570
66	147.250	132.120	128.220	147.900	143.470	147.380	132.660	93.680	149.230	156.370
67	139.940	124.460	120.340	140.730	134.670	138.480	125.040	85.410	140.690	147.740
68	132.630	116.370	113.420	133.810	127.170	131.030	117.090	79.740	133.730	139.970
69	125.860	109.290	106.670	128.020	120.830	123.950	110.130	74.170	126.390	132.590
70	118.540	102.210	99.990	121.140	114.990	117.750	102.980	68.450	119.420	125.540
71	111.380	94.930	92.640	114.530	108.460	111.760	96.200	62.510	112.100	118.430
72	104.240	87.580	86.410	108.000	101.570	105.360	89.620	56.270	105.080	111.480
73	97.340	80.600	79.710	101.610	94.770	98.770	83.480	49.980	98.470	104.800
74	91.140	75.200	73.970	95.490	88.730	92.300	77.770	44.480	91.350	98.530
75	85.160	69.750	68.150	89.380	83.110	85.570	72.010	38.630	83.750	92.040

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CANDELA TABULATION - (Cont.)

76	79.750	65.140	62.810	83.890	77.620	79.720	66.510	33.160	76.970	86.140
77	74.610	60.420	58.200	78.980	72.570	74.580	62.030	29.690	71.130	80.530
78	70.110	56.090	53.840	74.580	68.480	70.100	58.010	26.970	66.010	75.390
79	65.880	52.170	50.020	70.350	64.750	65.740	53.840	24.410	61.310	70.670
80	62.190	48.480	46.480	66.610	61.050	62.160	50.090	21.750	57.090	66.580
81	58.540	45.030	43.560	62.850	57.320	58.740	46.230	19.510	53.320	62.800
82	55.280	42.180	40.700	59.610	53.670	55.190	42.990	16.710	49.760	59.350
83	52.240	39.680	38.240	56.470	50.510	51.950	40.020	14.830	46.390	56.120
84	49.460	37.480	35.970	53.680	47.800	49.140	37.420	13.000	43.280	53.200
85	47.410	35.720	34.150	51.420	45.660	46.710	34.930	11.390	40.540	50.790
86	45.580	34.150	32.340	49.560	43.940	44.680	32.920	10.180	38.160	48.500
87	44.210	32.830	30.870	48.140	42.560	42.960	31.180	9.220	36.140	46.620
88	43.140	31.690	29.800	46.950	41.450	41.550	29.820	8.450	34.540	45.200
89	42.460	30.870	29.050	46.100	40.600	40.530	29.000	7.890	33.620	44.300
90	42.480	30.770	28.940	46.050	40.400	40.230	28.530	7.630	33.330	43.880
91	42.630	30.810	29.020	46.180	40.420	40.250	28.110	7.510	33.320	43.810
92	42.970	31.020	29.130	46.400	40.480	40.440	28.140	7.420	33.320	43.750
93	43.390	31.400	29.350	46.590	40.650	40.590	28.380	7.400	33.370	43.820
94	43.830	31.740	29.440	46.810	40.790	40.660	28.520	7.380	33.530	44.130
95	44.220	32.000	29.580	47.150	40.980	40.730	28.820	7.330	33.770	44.540
96	44.730	32.280	29.700	47.510	41.170	40.750	28.930	7.330	34.270	44.930
97	45.190	32.470	29.760	47.900	41.490	40.750	28.980	7.290	34.480	45.180
98	45.670	32.690	29.930	48.180	41.890	40.750	28.960	7.270	35.030	45.450
99	46.130	33.000	30.210	48.520	42.120	40.730	28.950	7.270	35.210	45.740
100	46.530	33.190	30.380	48.800	42.380	40.420	28.380	7.270	35.230	45.690
101	46.920	33.420	30.710	49.140	42.600	39.870	27.870	7.270	34.660	44.950
102	47.340	33.740	30.950	49.420	42.600	38.880	28.390	7.310	34.320	44.460
103	47.580	34.050	31.120	49.590	42.620	37.430	28.640	7.340	34.080	43.430
104	47.890	34.260	31.190	49.830	42.470	36.510	27.800	7.490	33.290	41.690
105	48.300	34.470	31.230	50.080	41.930	36.420	26.870	7.490	32.890	40.400
106	48.890	34.690	31.470	50.410	40.960	36.140	26.700	7.400	33.600	40.180
107	49.360	35.010	31.790	50.390	39.240	35.210	26.700	7.380	33.350	39.270
108	49.780	35.300	31.940	50.260	37.070	33.690	26.280	7.420	32.130	37.840
109	50.150	35.490	32.050	49.690	35.500	33.090	25.040	7.400	31.860	35.830
110	50.380	35.640	32.040	47.860	34.250	32.170	23.310	7.400	31.740	34.130
111	50.510	35.730	31.860	45.780	32.440	32.140	21.960	7.420	30.130	34.070
112	50.560	35.670	31.710	43.350	31.590	33.080	22.310	7.530	27.110	35.660
113	50.540	35.530	31.380	40.320	31.600	34.220	23.130	7.670	25.730	36.740
114	50.540	35.240	30.960	38.110	32.040	35.670	23.790	8.030	25.980	38.550
115	50.260	34.970	30.490	36.460	32.430	37.280	23.790	8.180	27.000	39.960
116	49.980	34.540	29.900	34.610	32.000	37.330	23.620	8.230	28.190	39.770
117	49.730	34.060	29.030	33.310	32.180	36.690	22.790	8.240	27.650	38.870
118	49.080	33.340	27.890	33.130	32.890	36.180	21.500	8.220	26.640	38.080
119	47.580	32.500	26.960	32.920	34.500	36.140	20.340	7.870	25.960	37.930
120	45.690	31.620	25.510	33.000	36.650	36.010	19.570	7.740	25.330	37.890
121	43.740	30.480	23.670	34.250	39.090	36.020	18.160	7.730	25.250	38.130
122	41.710	29.250	22.040	35.570	40.280	36.450	17.650	7.730	25.060	39.540
123	39.860	28.080	20.310	37.240	40.740	37.240	17.920	7.900	25.120	41.400
124	38.390	26.350	18.690	39.410	41.420	37.440	18.490	8.190	25.430	41.860
125	37.630	24.890	18.490	40.800	41.950	37.070	18.210	8.450	25.380	41.400
126	36.210	23.800	18.860	41.760	42.260	36.270	17.300	8.520	24.730	40.220
127	34.780	23.000	19.780	42.350	42.660	36.040	16.980	8.520	23.690	39.320
128	33.340	23.050	21.200	42.370	42.600	35.450	17.130	8.570	22.600	38.640
129	32.500	23.670	23.360	43.300	42.300	35.100	17.270	8.430	20.900	38.270
130	32.130	24.750	25.670	43.840	41.970	34.300	17.770	8.350	19.100	37.110
131	32.860	25.960	27.320	44.970	41.320	32.300	18.480	8.310	17.610	35.770

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CANDELA TABULATION - (Cont.)

132	34.450	27.710	28.670	46.030	41.580	30.410	18.660	7.740	15.470	34.750
133	36.100	29.690	30.360	46.840	41.560	28.610	18.330	6.880	13.460	32.950
134	38.350	31.540	31.770	47.860	41.570	27.480	15.870	6.310	11.740	31.520
135	40.390	32.840	32.940	48.840	41.360	26.760	15.430	5.960	10.350	30.610
136	42.890	34.290	34.150	49.550	40.370	25.950	15.710	5.860	9.950	30.140
137	44.630	35.670	35.440	50.130	39.950	25.780	15.450	5.840	10.020	30.000
138	45.560	36.740	36.580	50.410	39.140	25.760	14.930	6.160	11.510	29.470
139	47.270	37.820	37.210	50.410	38.790	25.760	15.320	6.490	12.500	29.440
140	48.190	38.680	37.570	50.410	38.420	25.760	14.840	6.470	13.100	29.860
141	49.340	40.130	37.800	50.080	37.870	25.520	14.490	6.620	13.960	30.070
142	50.500	41.200	37.860	49.270	37.310	24.590	14.380	6.730	15.140	30.380
143	52.250	42.260	37.660	47.860	36.610	22.150	14.190	6.900	16.210	30.390
144	53.560	42.640	37.400	46.600	35.300	18.670	13.560	7.690	16.540	30.370
145	54.270	42.970	37.300	45.300	33.390	15.680	12.800	7.970	17.350	30.460
146	54.530	43.160	37.520	44.000	31.390	13.160	12.650	8.200	17.250	29.600
147	54.430	43.160	37.530	42.320	29.680	11.320	12.180	8.650	16.710	26.790
148	54.240	43.150	37.490	40.240	28.500	9.800	11.710	8.790	15.510	23.100
149	53.930	43.050	37.130	38.070	27.730	9.280	11.070	8.610	14.100	18.530
150	53.670	42.780	36.500	35.810	26.250	9.930	10.370	8.410	12.930	14.450
151	53.300	42.050	35.690	33.850	24.730	11.720	9.540	8.260	12.320	10.870
152	52.750	41.420	34.780	32.070	23.710	13.370	8.570	8.130	11.750	7.720
153	51.390	40.380	33.680	30.690	22.120	13.750	7.250	7.820	10.330	6.260
154	49.420	38.860	32.510	29.540	19.490	14.050	6.030	6.950	8.290	6.620
155	46.990	37.440	31.140	28.740	16.010	13.500	5.110	6.030	6.710	8.340
156	44.370	35.830	29.830	27.870	12.240	13.460	4.030	5.600	5.640	9.990
157	41.810	33.730	28.400	27.510	8.750	14.160	2.970	4.200	3.930	11.680
158	38.860	31.640	26.610	26.690	5.800	14.580	3.090	3.560	3.530	13.030
159	35.660	29.180	24.810	24.700	3.870	14.650	3.420	3.710	3.360	13.480
160	32.010	26.680	23.470	21.150	3.530	14.390	3.900	3.790	3.360	13.490
161	28.470	24.650	22.160	16.270	4.690	13.460	4.040	4.090	3.380	11.690
162	24.910	22.540	20.710	10.790	6.590	11.840	3.740	4.020	2.800	10.350
163	22.500	20.670	18.560	6.570	8.430	9.920	3.390	3.840	2.460	8.680
164	20.350	19.150	14.490	3.540	10.420	8.200	3.020	3.560	2.090	6.860
165	18.840	16.890	9.350	2.850	11.430	7.110	2.780	3.130	1.770	5.240
166	16.760	12.440	5.090	4.160	10.760	5.910	2.530	2.760	1.510	3.880
167	11.840	6.990	2.370	7.420	9.660	5.030	2.280	2.370	1.360	2.700
168	6.080	2.740	2.920	9.270	8.780	4.230	2.000	1.950	1.410	2.210
169	2.220	2.380	5.300	8.430	7.630	3.420	1.830	1.500	1.480	2.090
170	3.130	5.320	7.370	6.340	5.570	2.920	1.830	1.430	1.560	2.070
171	6.930	7.990	7.420	5.280	3.800	2.620	1.820	1.430	1.630	2.070
172	8.200	7.040	5.720	4.380	2.870	2.620	2.000	1.430	1.690	2.080
173	6.310	5.050	4.080	3.280	2.630	2.620	2.150	1.430	1.800	2.100
174	4.000	3.200	2.560	2.310	2.580	2.620	2.210	1.430	1.890	2.160
175	2.190	1.870	1.790	2.270	2.460	2.620	2.220	1.470	1.980	2.250
176	1.430	1.500	1.800	2.250	2.430	2.620	2.260	1.490	2.000	2.290
177	1.450	1.480	1.840	2.250	2.430	2.600	2.240	1.510	1.990	2.290
178	1.430	1.480	1.840	2.250	2.430	2.620	2.190	1.560	1.980	2.290
179	1.450	1.490	1.930	2.270	2.430	2.580	2.170	1.690	1.980	2.290
180	1.510	1.510	1.510	1.510	1.510	1.510	1.510	1.510	1.510	1.510

Vert. Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	533.539	533.539	533.539	533.539	533.539	533.539	533.539
1	516.990	521.670	523.010	524.800	527.240	522.590	524.950
2	518.340	522.550	522.620	520.640	520.140	514.600	520.280

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SER-38P-PC-CA(120V 2700K)_IESNA2002.IES****CANDELA TABULATION - (Cont.)**

3	519.160	522.370	514.360	511.210	514.530	515.570	522.260
4	522.070	527.470	526.430	524.510	519.650	510.400	530.710
5	550.080	559.330	576.160	564.940	533.010	512.660	540.380
6	768.640	721.840	765.580	693.420	580.860	524.990	557.870
7	863.730	828.340	799.690	755.800	702.890	613.720	621.560
8	841.250	820.900	765.070	771.920	789.580	738.050	761.980
9	849.200	795.940	754.230	782.740	780.340	766.220	783.670
10	859.920	780.510	759.010	777.680	751.320	733.460	768.600
11	891.790	802.090	779.560	781.730	750.250	731.370	776.720
12	917.080	818.380	795.160	799.990	778.290	753.410	785.430
13	920.490	824.790	788.290	796.580	803.220	773.140	766.300
14	902.370	796.840	770.850	783.510	798.680	767.710	772.370
15	865.990	788.960	762.730	764.460	781.140	767.710	774.690
16	852.380	775.020	749.990	753.460	765.420	760.660	774.650
17	843.030	768.080	744.490	743.120	750.690	750.850	776.050
18	838.710	760.190	735.480	739.650	743.480	735.720	761.170
19	809.640	742.600	724.210	731.710	737.410	731.860	745.810
20	769.130	712.140	710.890	718.240	727.930	727.900	742.540
21	738.370	682.190	687.220	702.930	718.940	729.170	724.040
22	716.010	677.800	681.950	704.660	726.480	708.170	725.550
23	749.570	736.230	711.620	714.630	700.490	687.250	723.190
24	748.360	750.600	741.160	731.120	706.740	687.820	712.840
25	733.440	737.200	742.070	744.410	719.970	693.360	701.530
26	712.200	706.870	713.030	728.540	715.780	683.710	697.120
27	690.950	687.700	683.660	695.640	690.150	669.210	690.600
28	683.520	682.970	672.870	670.960	669.170	651.910	672.870
29	668.890	667.470	670.510	671.460	664.350	645.030	664.670
30	651.020	645.830	653.290	659.230	656.300	631.550	652.830
31	643.290	633.170	637.070	641.190	632.380	608.430	628.180
32	628.540	617.910	612.780	615.100	606.050	582.860	598.470
33	605.820	600.330	592.070	591.140	588.000	561.440	568.190
34	587.770	589.090	580.470	570.270	562.180	538.570	546.750
35	566.230	575.830	562.800	556.790	543.540	520.680	527.430
36	557.700	567.850	553.040	542.920	527.320	505.020	508.150
37	542.370	552.330	538.260	523.050	518.220	496.790	493.510
38	522.170	523.910	521.410	513.460	504.880	486.920	483.620
39	504.960	507.450	492.440	486.350	489.870	472.640	470.940
40	489.200	489.320	472.920	469.290	471.170	458.590	451.910
41	472.500	481.110	460.480	450.490	456.160	440.560	428.840
42	454.030	463.670	448.740	439.080	441.030	429.180	416.770
43	436.570	444.310	431.170	424.800	428.530	416.640	405.430
44	421.710	430.430	414.520	407.830	412.230	401.190	391.690
45	405.380	414.480	395.320	389.260	392.890	382.550	375.290
46	388.950	398.030	379.170	373.170	375.480	367.460	363.140
47	370.700	381.280	360.570	351.320	360.470	355.990	352.030
48	349.480	359.600	340.560	334.550	347.530	345.330	341.660
49	332.290	340.710	320.670	317.750	333.050	332.540	330.520
50	316.730	324.810	305.430	302.090	319.400	318.610	320.420
51	304.420	311.120	292.620	287.880	308.720	308.330	309.960
52	292.050	300.320	279.550	277.380	298.290	296.290	295.030
53	281.660	290.480	269.990	267.160	286.260	284.040	283.660
54	272.630	281.440	259.630	255.240	274.330	273.080	273.380
55	261.960	271.620	248.250	242.910	264.160	265.070	263.410
56	248.090	258.610	235.910	230.250	253.560	255.070	252.920
57	236.270	246.150	224.490	217.820	244.240	246.360	243.670
58	224.230	234.680	213.590	207.390	233.860	235.030	233.100

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SER-38P-PC-CA(120V 2700K)_IESNA2002.IES****CANDELA TABULATION - (Cont.)**

59	213.180	224.830	203.110	197.740	224.150	223.640	222.790
60	201.440	214.730	193.220	188.590	213.740	213.460	211.690
61	192.720	204.770	183.950	179.890	204.460	202.750	200.450
62	183.560	196.120	174.800	169.700	193.330	191.810	189.400
63	175.440	187.420	165.920	160.200	182.740	181.460	179.100
64	167.680	180.030	158.200	151.900	172.910	171.960	169.820
65	158.890	172.150	151.160	143.170	162.430	162.580	160.620
66	150.810	164.230	143.460	135.440	153.980	153.540	152.190
67	141.750	155.510	134.880	127.290	145.230	145.250	144.060
68	133.700	147.050	126.540	119.620	137.610	138.100	136.750
69	125.980	138.630	118.050	111.590	129.770	130.730	129.270
70	119.520	130.850	110.020	103.310	122.690	123.790	122.170
71	112.170	123.040	101.530	94.880	115.310	116.460	115.050
72	105.730	115.780	94.010	87.560	108.610	109.760	108.440
73	99.350	108.960	87.340	80.790	101.680	102.940	101.930
74	92.970	102.540	81.240	74.940	95.530	96.660	95.670
75	87.060	96.180	75.500	69.180	89.450	90.860	89.900
76	81.430	90.580	70.140	63.940	83.870	85.160	84.210
77	75.790	85.260	65.150	59.220	78.330	79.700	79.120
78	70.330	80.100	60.190	54.330	73.530	74.610	74.160
79	66.040	75.350	55.560	49.870	68.960	70.100	69.580
80	61.830	71.010	51.640	45.900	64.930	65.810	65.530
81	58.070	67.220	48.080	42.570	61.260	62.010	61.720
82	54.900	63.930	45.000	39.600	57.660	58.520	58.190
83	52.040	60.740	42.290	37.020	54.720	55.400	54.970
84	49.180	57.690	39.860	34.790	51.930	52.580	52.130
85	46.820	55.070	37.850	32.820	49.560	50.140	49.670
86	44.730	52.670	35.960	30.910	47.250	47.870	47.480
87	42.890	50.790	34.640	29.550	45.370	46.000	45.620
88	41.450	49.270	33.480	28.520	43.980	44.640	44.330
89	40.420	48.340	32.740	27.780	43.170	43.820	43.520
90	39.980	47.900	32.410	27.480	42.890	43.600	43.260
91	39.910	47.830	32.350	27.400	42.860	43.560	43.250
92	40.000	47.850	32.350	27.380	43.090	43.680	43.460
93	40.400	48.160	32.470	27.600	43.550	44.270	43.940
94	40.750	48.530	32.730	27.910	43.920	44.720	44.420
95	41.160	48.890	33.010	28.220	44.460	45.170	44.970
96	41.570	49.220	33.370	28.520	44.850	45.640	45.400
97	41.870	49.600	33.660	28.820	45.200	46.110	45.870
98	41.910	49.920	33.980	29.020	45.520	46.710	46.340
99	42.050	50.190	34.230	29.250	45.860	47.090	46.800
100	42.290	50.520	34.360	29.340	46.210	47.570	47.230
101	42.570	50.790	34.510	29.480	46.550	47.930	47.640
102	42.850	50.960	34.580	29.640	46.920	48.440	48.170
103	43.140	51.370	34.820	29.830	47.250	48.780	48.620
104	43.290	51.500	34.990	29.980	47.500	49.250	49.060
105	42.890	51.750	35.140	30.240	47.850	49.520	49.350
106	42.420	51.920	35.360	30.480	48.060	49.810	49.710
107	41.340	52.060	35.550	30.660	48.240	50.270	50.060
108	40.350	52.060	35.920	30.890	48.790	50.680	50.530
109	39.290	51.760	36.000	31.250	49.100	51.220	50.910
110	37.620	50.910	36.330	31.480	49.530	51.450	51.320
111	36.340	49.220	36.370	31.690	49.790	51.780	51.600
112	35.470	47.380	36.170	31.730	49.980	52.010	51.880
113	34.540	45.830	35.880	31.760	50.030	52.220	52.140
114	34.060	43.480	35.560	31.760	50.090	52.330	52.300

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SER-38P-PC-CA(120V 2700K)_IESNA2002.IES****CANDELA TABULATION - (Cont.)**

115	33.650	40.200	35.040	31.670	50.170	52.390	52.410
116	32.970	37.750	34.820	31.530	49.890	52.480	52.580
117	32.200	35.920	34.680	31.540	49.450	52.460	52.530
118	32.130	35.270	34.350	31.390	48.960	52.020	52.150
119	33.140	35.270	32.890	31.110	48.010	51.420	51.690
120	34.740	36.310	31.130	31.050	46.740	50.600	50.990
121	36.450	37.990	29.270	30.530	45.240	49.270	49.810
122	38.170	38.470	27.400	29.550	43.960	47.930	48.520
123	38.730	39.250	26.110	28.690	42.140	46.600	47.190
124	40.040	39.640	25.380	27.390	39.830	44.830	45.600
125	41.070	39.640	25.790	26.440	37.860	42.490	43.840
126	42.550	39.600	26.320	25.450	36.050	40.150	41.370
127	43.130	39.700	26.410	24.580	35.040	38.140	39.630
128	43.220	41.140	26.520	24.210	34.910	36.280	37.710
129	43.180	42.710	26.910	24.800	35.170	35.620	37.070
130	42.780	43.880	27.530	24.900	36.170	35.630	37.080
131	41.990	45.190	28.600	25.300	37.850	36.250	37.650
132	41.980	46.370	30.080	25.800	39.080	37.700	38.800
133	41.980	47.840	32.340	26.520	39.010	39.440	40.850
134	42.350	49.310	34.550	27.460	39.750	39.530	41.730
135	41.890	50.670	36.400	28.680	40.530	40.320	42.100
136	41.330	52.150	38.270	30.400	41.230	41.290	43.010
137	41.210	52.370	40.230	32.150	41.540	42.310	44.430
138	41.260	52.790	41.800	33.470	43.350	43.160	45.470
139	41.000	53.450	42.880	34.820	44.830	45.190	46.690
140	40.110	53.670	44.100	36.790	45.860	47.120	48.890
141	38.850	53.660	45.670	38.780	46.660	49.000	50.720
142	38.180	53.010	45.970	39.860	48.380	50.010	51.820
143	38.060	52.050	46.000	40.820	50.260	51.720	53.030
144	37.860	51.140	45.800	42.300	51.190	54.030	55.090
145	37.430	49.950	45.340	42.610	51.790	55.660	56.900
146	36.430	48.790	45.160	42.600	53.120	56.520	57.920
147	35.390	47.090	44.800	42.600	53.690	58.090	59.080
148	34.730	44.800	44.380	42.360	53.890	59.100	60.490
149	34.330	42.320	43.690	42.120	54.050	59.210	60.600
150	33.770	40.330	42.640	42.010	54.060	59.120	60.350
151	32.780	38.350	41.120	41.930	53.890	58.880	59.990
152	32.230	36.420	39.220	41.600	53.120	58.120	59.390
153	31.000	34.430	37.120	41.140	52.150	56.990	58.220
154	29.220	32.220	35.230	40.350	50.670	55.560	56.820
155	26.950	30.170	33.400	39.260	49.190	53.780	54.980
156	23.880	28.230	31.690	37.650	47.040	51.480	52.540
157	19.760	26.390	30.180	35.630	44.150	48.340	49.630
158	14.760	26.060	28.890	33.560	40.640	44.790	45.990
159	9.920	25.270	27.460	31.500	36.910	40.600	41.810
160	6.390	23.680	26.080	29.640	33.830	36.730	37.770
161	5.210	20.440	25.120	27.610	30.560	32.910	33.970
162	6.430	15.680	24.050	25.590	27.670	29.290	30.320
163	9.200	9.830	22.120	23.860	24.940	26.070	26.690
164	11.530	4.960	18.730	22.510	22.730	23.310	23.900
165	12.380	2.930	13.000	20.320	21.260	21.240	21.500
166	10.790	3.730	6.800	16.280	19.410	19.670	19.830
167	7.910	6.900	2.950	10.070	15.700	17.440	17.830
168	6.100	10.000	3.210	4.330	9.560	12.770	13.750
169	4.660	9.740	6.360	2.830	3.940	6.510	7.470
170	3.340	7.490	9.830	5.720	2.620	2.130	2.390

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SER-38P-PC-CA(120V 2700K)_IESNA2002.IES

CANDELA TABULATION - (Cont.)

171	2.520	5.280	9.430	8.620	5.320	2.790	2.610
172	2.210	3.660	6.830	7.410	6.990	6.110	5.950
173	2.160	2.500	4.340	5.340	5.980	6.740	7.030
174	2.180	2.120	2.470	3.310	4.140	4.900	5.160
175	2.270	2.090	2.080	2.050	2.330	2.860	3.070
176	2.380	2.210	2.070	1.890	1.730	1.680	1.710
177	2.420	2.310	2.070	1.880	1.710	1.580	1.550
178	2.440	2.330	2.070	1.880	1.700	1.570	1.510
179	2.510	2.330	2.070	1.880	1.700	1.550	1.510
180	1.510	1.510	1.510	1.510	1.510	1.510	1.510

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SER-38P-PC-CA(120V 2700K)_IESNA2002.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	285.36	14.60	14.60
0-30	599.95	30.80	30.80
0-40	931.64	47.80	47.80
0-60	1447.2	74.30	74.30
0-80	1683.44	86.40	86.40
0-90	1731.55	88.90	88.90
10-90	1664.71	85.40	85.40
20-40	646.28	33.20	33.20
20-50	936.91	48.10	48.10
40-70	665.64	34.20	34.20
60-80	236.24	12.10	12.10
70-80	86.16	4.40	4.40
80-90	48.11	2.50	2.50
90-110	82.99	4.30	4.30
90-120	120.11	6.20	6.20
90-130	149.46	7.70	7.70
90-150	199.44	10.20	10.20
90-180	216.85	11.10	11.10
110-180	133.86	6.90	6.90
0-180	1948.4	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

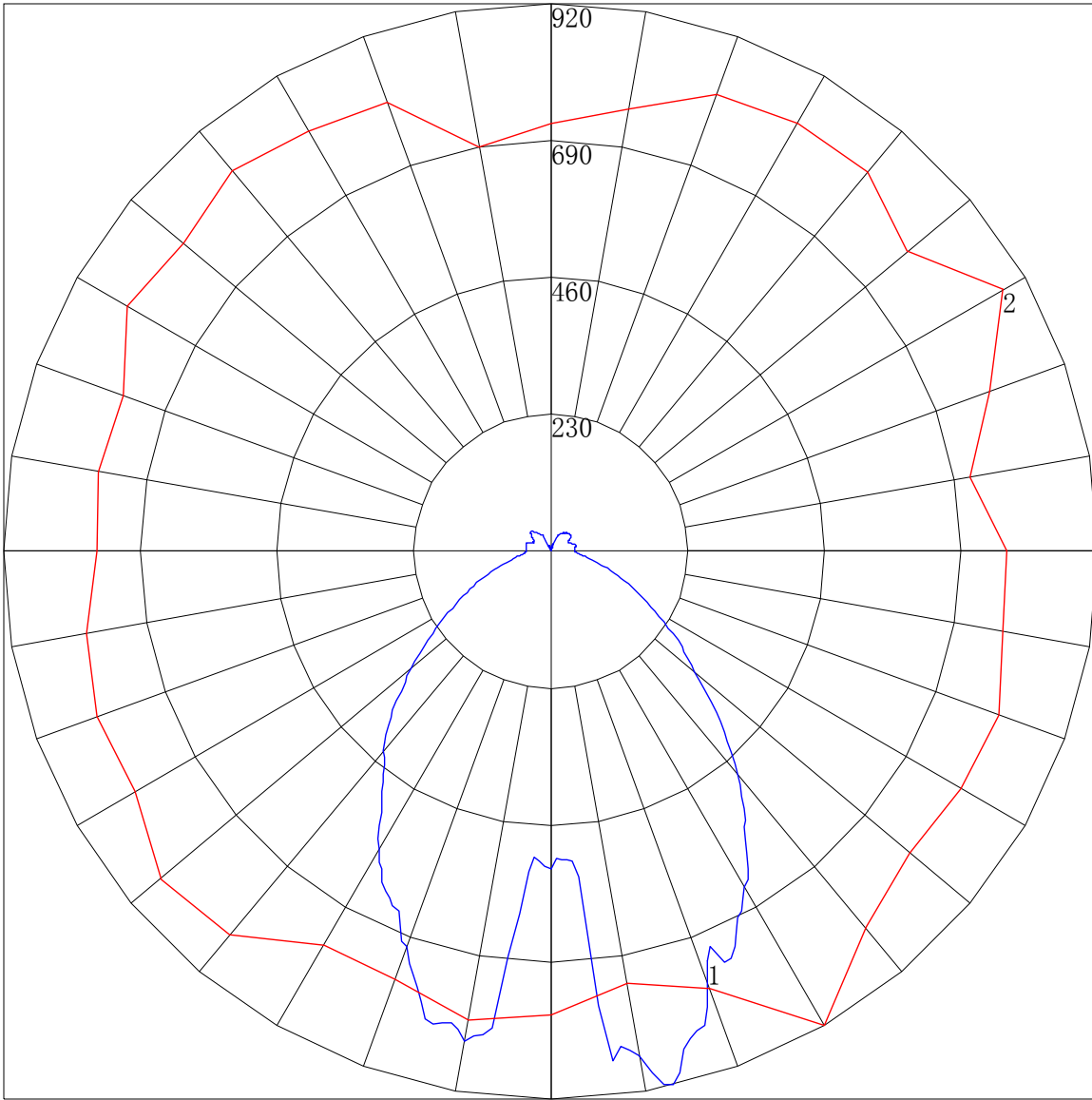
Zone	Lumens
0-10	66.84
10-20	218.52
20-30	314.59
30-40	331.69
40-50	290.63
50-60	224.93
60-70	150.08
70-80	86.16
80-90	48.11
90-100	41.35
100-110	41.64
110-120	37.12
120-130	29.36
130-140	26.28
140-150	23.69
150-160	13.65
160-170	3.43
170-180	0.33

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	107	102	98	95	103	99	95	92	93	90	87	87	85	83	82	80	78	75
2	98	90	84	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64
3	90	80	73	67	87	78	71	65	73	68	63	69	64	60	65	61	58	56
4	83	72	64	58	80	70	62	57	66	60	55	62	57	53	59	55	51	48
5	77	65	56	50	74	63	55	49	60	53	48	57	51	46	54	49	45	43
6	71	59	50	44	69	57	49	44	54	48	43	52	46	41	49	44	40	38
7	66	53	45	40	64	52	44	39	50	43	38	47	41	37	45	40	36	34
8	62	49	41	36	60	48	40	35	46	39	34	44	38	33	42	36	33	31
9	58	45	37	32	56	44	37	32	42	36	31	40	35	30	39	33	30	28
10	54	42	34	29	52	41	34	29	39	33	28	38	32	28	36	31	27	25

POLAR GRAPH



Maximum Candela = 920.49 Located At Horizontal Angle = 300, Vertical Angle = 13
1 - Vertical Plane Through Horizontal Angles (300 - 120) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (13) (Through Max. Cd.)