



Photometric Toolbox™

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LSBR48-LED45DMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Dongguan New Testing Centre Co., Ltd

[TESTDATE] 03 July 2017

[ISSUEDATE] 2017-07-10 16:27:06

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] Mobern Lighting Co.

[LUMCAT] LSBR48-LED45DMV40

[LUMINAIRE] LED

[BALLAST] 120-277V,50/60Hz

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	151.37	151.37	2.48	2.48
[OTHER]	10- 20	433.98	585.34	9.60	9.60
[OTHER]	20- 30	660.45	1245.80	20.42	20.42
[OTHER]	30- 40	804.37	2050.17	33.61	33.61
[OTHER]	40- 50	853.19	2903.36	47.59	47.59
[OTHER]	50- 60	810.11	3713.47	60.87	60.87
[OTHER]	60- 70	694.12	4407.59	72.25	72.25
[OTHER]	70- 80	538.40	4945.98	81.08	81.08
[OTHER]	80- 90	383.49	5329.47	87.36	87.36
[OTHER]	90-100	266.45	5595.92	91.73	91.73
[OTHER]	100-110	184.17	5780.09	94.75	94.75
[OTHER]	110-120	122.72	5902.81	96.76	96.76
[OTHER]	120-130	79.29	5982.10	98.06	98.06
[OTHER]	130-140	53.08	6035.18	98.93	98.93
[OTHER]	140-150	33.46	6068.63	99.48	99.48
[OTHER]	150-160	19.15	6087.79	99.80	99.80
[OTHER]	160-170	9.47	6097.26	99.95	99.95
[OTHER]	170-180	2.98	6100.24	100.00	100.00
[OTHER]					

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CHARACTERISTICS

Lumens Per Lamp	6100.2 (1 lamp)
Total Lamp Lumens	6100.2
Luminaire Lumens	6100
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	46.816
Ballast Factor	0.99
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.20 m
Luminous Width (90-270)	0.08 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18320	16355	14742
55	19494	16621	13808
65	21943	17807	12703
75	28635	21716	11078
85	65341	45891	8117

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CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	1599.397	1599.397	1599.397	1599.397	1599.397	1599.397	1599.397	1599.397	1599.397	1599.397
1	1595.920	1603.430	1602.920	1597.270	1597.340	1598.290	1598.380	1598.370	1602.640	1598.330
2	1591.390	1599.150	1603.260	1597.840	1596.010	1600.810	1599.750	1599.640	1601.830	1597.650
3	1592.920	1597.570	1602.400	1594.350	1591.550	1594.520	1599.010	1597.420	1601.830	1597.120
4	1591.660	1595.850	1600.220	1598.670	1593.570	1590.530	1595.510	1596.640	1599.000	1596.040
5	1588.640	1595.700	1599.010	1593.130	1591.840	1591.230	1593.310	1593.610	1599.400	1593.800
6	1588.670	1594.990	1595.260	1589.440	1585.420	1585.220	1593.130	1590.130	1595.210	1589.170
7	1585.040	1590.700	1594.750	1583.490	1580.490	1580.750	1586.600	1588.250	1591.930	1587.120
8	1584.300	1589.270	1592.360	1582.400	1576.870	1577.380	1585.550	1583.130	1587.130	1583.360
9	1580.360	1587.100	1584.440	1577.600	1570.240	1569.930	1577.800	1578.980	1584.920	1579.470
10	1569.830	1579.270	1581.220	1567.690	1568.120	1562.700	1571.320	1573.310	1579.290	1574.480
11	1573.740	1577.670	1575.160	1566.150	1557.350	1555.300	1564.290	1565.850	1572.480	1569.110
12	1569.630	1574.000	1572.420	1556.970	1550.310	1545.440	1555.280	1558.940	1564.270	1562.610
13	1564.530	1568.180	1566.390	1548.410	1543.410	1536.890	1548.340	1553.500	1558.320	1557.580
14	1555.160	1563.540	1560.910	1545.180	1533.420	1526.240	1541.890	1544.030	1550.490	1549.820
15	1557.390	1556.220	1554.010	1536.640	1521.950	1515.480	1534.950	1533.250	1541.180	1543.180
16	1544.890	1553.490	1546.350	1528.450	1511.710	1505.630	1524.160	1524.100	1531.670	1535.270
17	1540.200	1544.330	1543.020	1520.740	1506.400	1493.020	1512.410	1514.340	1521.080	1527.370
18	1537.520	1539.050	1529.780	1514.420	1492.750	1482.240	1501.220	1502.970	1510.770	1519.090
19	1530.710	1536.110	1523.230	1501.440	1476.810	1468.120	1487.970	1489.670	1499.630	1508.620
20	1519.380	1526.530	1516.890	1490.740	1463.380	1457.010	1475.160	1476.180	1488.010	1498.460
21	1516.090	1520.050	1505.710	1479.410	1449.840	1448.270	1464.070	1463.910	1475.750	1489.340
22	1507.230	1513.400	1497.530	1468.880	1442.350	1426.970	1450.500	1451.060	1463.370	1478.340
23	1500.430	1501.180	1483.540	1456.880	1433.520	1414.670	1434.990	1437.240	1450.720	1465.380
24	1493.900	1496.450	1477.100	1447.900	1417.720	1400.090	1418.920	1421.750	1438.620	1454.220
25	1482.040	1483.350	1470.660	1434.160	1401.800	1381.620	1403.810	1407.220	1424.280	1444.160
26	1472.970	1477.030	1459.240	1418.590	1383.710	1366.250	1387.840	1392.940	1408.150	1429.650
27	1462.650	1465.020	1446.670	1399.850	1365.670	1343.640	1370.750	1375.840	1393.270	1416.680
28	1455.170	1456.530	1432.040	1389.340	1354.110	1328.930	1354.480	1358.650	1377.990	1404.710
29	1439.770	1447.410	1421.720	1377.040	1335.530	1314.810	1335.950	1340.940	1362.350	1389.930
30	1431.160	1435.800	1409.750	1361.580	1322.340	1292.620	1317.520	1324.080	1346.690	1375.780
31	1427.740	1426.050	1396.100	1349.310	1302.810	1274.970	1299.490	1305.250	1328.100	1361.230
32	1413.100	1412.850	1384.120	1330.180	1283.690	1256.810	1280.950	1285.790	1311.570	1346.760
33	1401.560	1402.400	1375.070	1316.820	1263.960	1234.490	1261.410	1267.180	1293.080	1332.000
34	1394.250	1391.100	1357.640	1300.130	1244.430	1215.520	1241.500	1247.850	1274.690	1316.490
35	1384.390	1377.720	1342.730	1287.000	1229.890	1193.560	1221.650	1227.220	1258.040	1299.220
36	1368.110	1362.880	1329.060	1273.720	1212.340	1171.080	1200.730	1207.490	1237.540	1283.860
37	1356.660	1353.780	1314.490	1254.440	1192.700	1151.690	1180.180	1187.480	1218.800	1266.660
38	1341.460	1343.950	1297.880	1237.880	1173.640	1132.250	1158.910	1166.110	1199.600	1249.990
39	1331.440	1323.210	1284.620	1220.320	1152.060	1107.290	1137.380	1144.560	1180.830	1232.360
40	1316.690	1307.460	1272.050	1202.700	1132.410	1090.470	1115.830	1122.170	1160.920	1216.530
41	1301.310	1297.930	1248.600	1184.000	1109.730	1058.780	1092.520	1099.840	1140.940	1198.040
42	1292.910	1284.340	1240.420	1161.850	1091.710	1040.110	1068.930	1078.230	1121.070	1180.690
43	1274.850	1267.110	1222.110	1145.960	1073.630	1017.670	1046.800	1057.050	1101.470	1162.180
44	1263.360	1247.960	1209.690	1131.430	1055.020	998.290	1023.920	1035.240	1080.150	1144.860
45	1244.100	1237.310	1193.730	1110.680	1030.740	978.270	1001.160	1011.940	1058.650	1125.220
46	1225.400	1217.960	1172.300	1093.670	1011.230	952.690	977.790	989.140	1037.060	1105.140
47	1210.050	1206.540	1154.390	1070.690	986.650	927.130	954.300	966.740	1017.030	1086.690
48	1199.070	1185.930	1139.280	1053.940	968.120	907.750	930.810	944.140	995.460	1069.030
49	1181.730	1170.110	1123.030	1033.970	945.040	886.300	906.180	920.750	975.490	1049.000
50	1164.750	1152.060	1108.200	1016.830	924.790	859.570	881.970	897.930	954.110	1029.220
51	1149.900	1137.810	1087.420	996.560	904.940	834.230	858.590	875.080	932.440	1009.020
52	1128.230	1119.740	1068.480	977.820	882.180	814.830	834.490	852.260	910.800	990.140
53	1113.140	1101.160	1050.700	956.790	860.010	789.480	810.390	828.790	889.580	969.640

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CANDELA TABULATION - (Cont.)

54	1097.700	1085.510	1036.180	937.400	841.060	767.140	785.610	804.870	868.180	949.520
55	1073.880	1066.160	1015.990	915.570	813.740	742.280	760.630	781.540	846.250	930.360
56	1058.190	1049.650	997.320	895.940	793.920	719.760	736.940	758.320	825.350	909.780
57	1040.200	1029.450	975.720	877.800	772.860	694.500	712.230	734.910	803.610	889.840
58	1018.890	1011.050	957.670	856.770	751.360	673.080	687.520	711.260	781.330	869.540
59	1004.430	989.160	939.120	837.350	731.920	648.670	662.540	687.110	758.940	848.950
60	985.640	973.480	920.130	818.580	707.990	626.410	637.900	663.700	738.160	829.040
61	970.920	953.290	897.960	797.720	686.550	599.710	613.800	639.370	716.200	809.920
62	951.930	936.660	879.860	781.570	666.360	578.490	589.030	616.970	695.180	789.700
63	935.500	914.550	861.010	761.040	643.420	554.990	564.380	593.100	673.730	769.640
64	908.430	895.790	840.980	740.570	623.290	533.770	539.490	570.100	654.600	749.540
65	890.650	879.110	823.780	722.780	601.680	509.850	515.580	547.420	634.880	730.620
66	875.110	861.190	804.020	703.540	581.280	484.900	491.140	524.420	615.050	711.940
67	856.430	841.990	783.660	683.310	563.620	461.930	466.640	501.150	593.810	692.310
68	838.450	822.500	770.470	665.300	543.640	442.480	442.740	478.610	574.040	673.520
69	819.550	802.610	751.110	646.180	523.810	419.920	417.830	456.190	554.140	655.590
70	799.280	786.980	730.130	626.950	505.120	396.380	394.290	433.820	534.430	637.690
71	781.530	767.370	711.750	610.060	484.670	374.470	370.930	411.950	515.740	620.010
72	764.440	750.230	692.030	589.520	467.590	352.630	346.830	391.200	497.220	602.120
73	747.990	732.770	673.390	574.410	448.350	331.120	322.340	370.260	477.480	584.870
74	730.150	715.100	659.280	556.580	430.080	311.500	298.930	348.610	459.450	567.890
75	711.780	696.270	640.850	539.790	411.440	292.560	275.360	328.550	440.620	550.860
76	692.750	678.900	620.730	521.610	395.740	272.780	251.530	308.400	424.250	534.860
77	675.930	662.360	605.280	505.900	378.310	252.960	229.510	289.360	406.670	519.120
78	661.100	645.650	588.430	489.230	363.120	234.560	206.990	270.730	390.370	503.230
79	641.800	627.590	571.600	472.850	347.050	218.410	184.640	251.920	374.040	487.350
80	624.610	612.860	554.930	456.450	330.750	201.130	163.630	234.690	358.260	472.700
81	608.630	594.710	539.200	440.600	315.110	184.210	142.520	217.820	343.190	457.330
82	593.240	580.210	525.570	427.360	301.310	168.500	122.460	201.600	327.290	443.550
83	577.540	562.120	509.890	412.730	286.240	153.730	103.100	185.540	312.710	429.430
84	561.730	547.330	494.780	397.820	272.620	142.280	84.940	170.970	299.670	416.140
85	546.940	533.440	479.500	384.130	260.690	128.090	67.940	157.560	286.250	401.600
86	531.400	518.810	465.000	371.120	248.020	116.340	52.370	144.380	272.800	388.430
87	516.070	503.480	450.840	357.320	235.440	105.590	38.290	131.930	261.040	375.230
88	503.370	489.700	436.700	343.570	223.760	96.040	26.360	120.770	248.830	363.020
89	488.810	473.940	423.330	331.650	212.170	87.510	16.510	110.730	237.690	351.160
90	474.880	460.920	409.580	319.880	201.910	79.210	9.310	101.180	227.150	339.280
91	461.020	446.840	396.660	308.060	192.060	72.260	4.550	92.680	216.710	327.950
92	446.350	434.680	385.230	296.630	182.170	65.740	2.170	85.200	206.690	316.300
93	434.260	422.570	372.420	285.190	173.760	60.000	2.110	78.530	197.660	305.850
94	421.020	410.600	361.300	275.170	164.610	55.530	2.240	72.470	187.870	296.330
95	409.670	397.540	348.900	265.200	157.620	50.970	2.310	67.070	181.420	285.660
96	397.490	385.640	338.090	255.050	150.260	47.560	2.580	62.220	173.400	275.680
97	385.920	373.650	326.730	245.420	143.440	43.820	2.780	57.870	165.300	266.020
98	374.530	362.530	315.470	236.700	136.380	39.920	2.930	54.120	158.490	258.710
99	363.460	350.740	305.820	228.140	130.110	36.340	3.260	50.870	151.660	248.990
100	352.450	340.120	295.950	219.860	124.320	33.830	3.670	46.630	146.260	241.390
101	341.760	329.410	286.740	211.260	118.720	32.360	4.160	42.220	137.620	232.870
102	331.560	318.880	277.180	203.720	113.760	31.300	4.680	38.790	132.840	225.030
103	321.420	309.880	267.960	195.710	107.970	30.200	5.230	37.160	127.410	217.380
104	312.080	300.040	259.280	188.940	101.840	29.340	5.910	36.310	122.490	209.350
105	302.230	290.230	250.560	182.200	96.020	28.660	6.520	35.120	118.480	202.050
106	292.700	281.240	242.390	175.610	90.560	28.130	7.190	34.430	111.690	195.550
107	283.540	272.560	234.100	169.270	85.010	27.790	8.030	33.630	105.770	188.710
108	274.730	264.180	226.740	161.880	79.730	27.380	8.770	32.890	99.170	182.770
109	265.940	255.860	219.470	154.240	76.170	27.120	9.650	32.280	94.090	176.340

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CANDELA TABULATION - (Cont.)

110	258.110	247.480	212.450	147.620	73.800	26.920	10.480	31.740	88.200	170.070
111	249.900	239.100	204.050	140.660	72.070	26.910	11.200	31.330	83.970	164.030
112	241.420	231.540	196.040	133.660	70.550	26.940	12.090	30.740	81.380	155.990
113	233.540	223.670	187.940	126.640	68.980	26.970	12.900	30.120	79.250	148.680
114	225.310	215.470	179.650	120.060	67.190	27.000	13.730	29.600	77.660	141.720
115	217.080	207.030	171.610	113.940	65.550	27.020	14.540	29.250	76.280	134.950
116	208.670	198.040	163.570	109.290	63.950	27.050	15.340	28.710	73.850	128.070
117	199.820	189.600	156.120	106.170	62.430	27.190	16.170	28.180	72.120	121.660
118	190.660	181.560	148.370	103.490	61.130	27.260	16.980	27.710	69.950	117.370
119	182.520	173.380	141.460	101.170	59.880	27.390	17.730	27.240	68.130	113.750
120	174.220	165.210	135.110	98.770	58.570	27.460	18.470	27.030	66.490	111.060
121	166.340	157.910	130.140	96.500	57.110	27.660	19.160	26.640	64.660	108.820
122	158.980	150.540	126.380	94.160	56.280	27.730	19.890	26.430	63.090	106.720
123	152.060	143.920	123.020	91.440	55.120	27.930	20.520	26.220	61.370	103.880
124	145.550	138.810	120.590	89.180	54.250	28.060	21.250	26.030	60.030	101.000
125	140.870	135.020	117.530	86.620	53.300	28.470	21.920	25.750	58.470	98.280
126	136.810	131.160	114.270	84.350	52.300	28.540	22.540	25.550	57.230	95.170
127	133.510	128.110	111.130	82.310	51.400	28.810	23.210	24.890	55.610	92.630
128	130.370	125.240	107.880	80.040	50.580	29.070	23.760	24.210	54.280	90.120
129	127.280	121.890	104.810	77.850	50.050	29.210	24.170	24.140	53.270	87.290
130	123.690	118.640	101.690	76.000	49.160	29.550	24.640	24.200	51.970	85.110
131	120.000	114.820	98.660	74.280	48.610	29.690	25.110	24.270	50.650	82.440
132	116.450	111.400	95.790	72.410	48.080	29.880	25.600	24.270	49.500	79.720
133	112.850	107.570	93.080	70.420	47.470	29.740	26.070	24.340	48.330	77.500
134	109.440	104.540	90.480	68.700	46.810	29.280	26.610	24.210	47.040	75.210
135	105.990	101.320	87.670	66.920	45.990	29.010	26.880	24.070	45.970	73.060
136	102.360	98.050	85.250	65.450	45.580	29.290	27.150	24.000	44.970	70.880
137	99.000	94.790	82.640	63.950	45.100	29.760	27.280	23.870	43.820	68.660
138	95.810	92.030	80.080	62.560	44.630	30.220	27.210	23.870	42.800	66.580
139	92.700	88.880	77.730	61.100	44.090	30.570	27.280	23.800	41.650	64.740
140	89.670	86.220	75.560	59.700	43.820	31.240	27.420	23.740	40.910	62.720
141	86.780	83.590	73.530	58.320	43.480	32.120	27.490	23.670	40.090	60.980
142	83.910	80.970	71.370	57.160	43.010	32.790	27.620	23.600	39.100	59.190
143	81.110	78.240	69.370	56.030	42.730	33.260	27.760	23.540	38.340	57.460
144	78.490	75.730	67.410	54.860	42.460	33.530	27.960	23.200	37.450	55.560
145	76.110	73.320	65.630	53.650	42.190	33.670	28.170	23.000	36.310	53.800
146	73.570	70.970	63.750	52.700	41.990	33.930	28.250	22.660	35.390	52.090
147	71.420	68.750	62.000	51.610	41.720	33.730	28.330	22.320	34.920	50.460
148	69.240	66.520	60.340	50.610	40.800	33.930	28.410	21.540	34.380	48.970
149	66.780	64.520	58.760	49.730	39.980	34.060	28.490	21.320	33.890	47.390
150	64.560	62.560	57.330	48.710	39.160	33.860	28.570	21.250	33.160	45.900
151	62.700	60.540	55.610	47.890	38.140	33.390	28.500	21.510	32.550	44.630
152	60.740	58.760	54.310	47.090	37.200	33.190	28.570	20.980	31.780	43.200
153	58.550	57.070	53.030	46.450	36.720	32.710	28.570	20.310	30.580	41.660
154	56.430	55.260	51.670	45.110	36.380	32.310	28.500	19.250	29.500	39.950
155	54.870	53.650	50.510	44.030	35.840	32.240	28.230	18.490	28.420	38.470
156	53.180	52.370	49.280	42.600	35.030	31.980	27.960	18.090	27.330	36.910
157	51.840	50.790	48.240	41.110	35.090	32.040	27.960	18.150	26.180	35.400
158	50.110	49.650	47.030	39.830	35.020	31.840	27.760	18.690	24.760	33.730
159	48.750	48.450	46.070	38.010	34.690	31.910	27.550	19.090	23.210	32.090
160	47.380	47.240	43.960	36.660	34.280	31.920	27.280	19.630	22.270	30.430
161	46.160	46.090	42.110	36.320	34.410	32.390	27.490	20.370	21.270	28.850
162	44.930	44.460	40.300	36.120	34.480	33.130	27.830	20.980	21.000	27.420
163	43.590	43.440	39.250	36.050	34.750	33.460	28.240	22.180	20.460	26.210
164	42.150	42.240	38.570	35.970	35.090	33.660	28.990	23.250	20.190	24.670
165	41.540	41.760	37.430	35.430	35.420	33.250	29.800	24.200	19.920	23.770

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CANDELA TABULATION - (Cont.)

166	41.270	41.420	36.460	34.560	35.630	32.920	30.410	25.010	19.920	22.960
167	40.870	40.950	35.700	34.350	35.360	33.400	31.160	25.810	20.010	22.550
168	40.460	40.600	34.750	33.880	35.160	34.140	31.970	26.550	20.940	22.070
169	40.060	39.520	34.200	34.420	35.830	34.810	32.590	27.760	21.480	21.400
170	39.520	38.110	33.930	34.420	35.900	35.080	33.330	29.240	22.420	20.590
171	39.240	36.960	33.180	34.490	35.840	35.080	34.350	30.720	23.850	20.040
172	38.840	35.720	32.840	34.560	35.370	35.350	35.430	31.930	25.390	20.990
173	38.230	33.560	32.500	34.150	35.030	35.690	36.310	33.200	26.880	22.150
174	37.680	30.850	32.230	33.810	34.220	35.890	37.060	34.550	28.240	23.630
175	36.410	28.370	31.410	33.130	33.670	35.880	37.530	35.430	29.180	25.340
176	34.840	26.080	30.590	32.120	33.470	35.420	38.070	36.100	30.670	27.570
177	33.020	24.600	30.050	31.640	33.200	35.550	38.270	36.780	32.020	29.330
178	28.700	25.680	31.060	31.440	33.540	36.230	37.940	36.710	33.100	30.960
179	23.960	27.520	31.610	32.530	34.280	36.900	38.070	36.980	33.910	32.240
180	22.870	22.870	22.870	22.870	22.870	22.870	22.870	22.870	22.870	22.870

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	1599.397	1599.397	1599.397	1599.397	1599.397	1599.397	1599.397	1599.397	1599.397	1599.397
1	1599.950	1601.660	1594.540	1600.440	1606.970	1602.330	1599.560	1599.750	1593.410	1596.950
2	1599.160	1600.720	1593.860	1601.760	1604.960	1602.200	1596.790	1599.960	1593.910	1594.170
3	1600.040	1600.900	1592.060	1598.870	1604.650	1594.660	1595.600	1599.690	1593.390	1592.650
4	1598.450	1598.860	1592.310	1599.630	1598.710	1595.620	1592.430	1596.230	1587.560	1587.070
5	1598.110	1595.860	1590.240	1596.070	1599.450	1595.490	1590.660	1593.110	1579.280	1581.860
6	1594.620	1594.460	1588.400	1592.180	1595.710	1590.080	1588.220	1589.300	1574.010	1578.650
7	1593.080	1592.340	1584.470	1589.640	1591.600	1586.690	1583.130	1586.140	1570.740	1573.190
8	1590.220	1589.600	1581.830	1585.660	1586.640	1580.770	1576.760	1580.900	1568.600	1567.380
9	1584.770	1585.870	1579.760	1581.920	1586.000	1576.060	1575.840	1573.850	1558.320	1558.280
10	1580.400	1582.380	1574.880	1576.790	1581.320	1570.900	1569.000	1565.910	1549.410	1552.780
11	1574.730	1578.990	1571.600	1574.480	1575.310	1565.530	1562.850	1558.630	1541.510	1542.050
12	1571.040	1573.930	1567.480	1569.410	1571.050	1559.140	1554.860	1552.130	1533.500	1536.740
13	1565.060	1569.600	1562.840	1563.900	1563.890	1551.800	1544.600	1544.100	1522.280	1527.200
14	1559.210	1564.340	1560.250	1556.740	1558.230	1546.290	1537.810	1535.840	1511.350	1516.980
15	1553.530	1558.560	1553.370	1552.970	1550.080	1536.990	1527.100	1524.680	1500.260	1506.520
16	1545.830	1551.940	1547.870	1548.380	1543.040	1528.160	1518.340	1516.170	1487.330	1493.110
17	1538.760	1544.900	1540.330	1542.650	1537.330	1518.740	1509.330	1505.490	1476.130	1480.980
18	1531.040	1538.290	1536.050	1535.680	1530.320	1508.950	1497.630	1492.890	1466.710	1465.310
19	1523.040	1532.960	1528.400	1527.600	1521.090	1499.370	1485.720	1481.440	1451.640	1457.370
20	1515.140	1526.880	1521.520	1518.640	1511.250	1489.320	1475.420	1468.170	1428.130	1439.360
21	1506.280	1519.230	1514.010	1514.050	1502.890	1477.780	1464.630	1453.830	1419.060	1420.280
22	1498.020	1510.620	1506.380	1504.670	1492.310	1464.330	1450.180	1440.220	1404.250	1410.270
23	1487.420	1502.540	1499.170	1495.970	1482.150	1453.760	1436.290	1424.600	1387.070	1396.680
24	1477.540	1493.650	1491.150	1485.450	1472.410	1441.590	1420.400	1409.250	1368.960	1378.810
25	1467.850	1484.410	1484.340	1476.410	1462.060	1428.330	1406.680	1392.610	1352.010	1362.200
26	1457.640	1475.590	1474.840	1468.160	1451.130	1416.840	1391.830	1376.430	1336.400	1348.990
27	1445.910	1464.240	1466.370	1458.820	1438.780	1403.340	1375.820	1359.210	1316.940	1322.370
28	1433.200	1454.270	1454.750	1447.010	1427.640	1388.690	1359.800	1341.570	1294.830	1310.640
29	1422.160	1444.810	1442.970	1434.420	1414.670	1374.190	1342.990	1324.090	1276.380	1291.280
30	1409.800	1434.030	1432.980	1424.900	1403.020	1358.580	1326.590	1305.650	1260.940	1270.570
31	1397.570	1423.590	1423.540	1413.320	1391.260	1343.730	1309.690	1288.030	1236.900	1252.460
32	1383.150	1412.040	1412.820	1403.410	1379.840	1327.270	1291.380	1268.490	1223.840	1230.700
33	1369.880	1400.710	1401.680	1390.820	1365.060	1313.030	1273.240	1249.240	1198.770	1211.960
34	1355.960	1387.200	1389.410	1379.300	1349.360	1298.630	1256.450	1228.740	1173.200	1192.060
35	1342.600	1373.350	1375.340	1366.230	1334.320	1281.300	1237.660	1209.110	1155.410	1169.510
36	1331.120	1359.390	1362.620	1351.810	1321.200	1264.790	1219.820	1187.180	1129.600	1148.140

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37	1314.930	1347.170	1351.320	1338.120	1306.970	1246.470	1200.510	1165.130	1110.350	1127.720
38	1297.810	1331.680	1337.870	1322.400	1292.560	1229.690	1180.240	1144.570	1090.180	1107.080
39	1284.590	1319.150	1324.440	1307.960	1275.720	1211.110	1159.790	1123.310	1067.930	1084.240
40	1266.870	1306.170	1309.370	1293.280	1260.440	1192.750	1139.970	1101.430	1043.780	1058.450
41	1251.380	1289.800	1293.830	1278.210	1244.120	1175.030	1119.550	1080.070	1019.800	1039.380
42	1236.390	1273.320	1279.660	1263.120	1228.050	1156.410	1098.610	1057.460	999.930	1016.950
43	1218.490	1258.090	1264.220	1248.410	1211.830	1139.040	1078.700	1034.430	977.110	993.850
44	1201.120	1242.770	1250.460	1232.600	1194.910	1118.800	1056.860	1013.530	951.820	971.590
45	1181.270	1228.020	1235.920	1216.200	1177.370	1099.310	1035.730	990.710	924.150	948.950
46	1165.290	1210.530	1219.560	1199.860	1160.840	1081.280	1015.390	967.500	902.070	924.480
47	1149.870	1194.910	1201.300	1184.110	1143.150	1061.790	994.420	943.760	880.220	902.040
48	1132.270	1179.770	1184.150	1167.110	1124.980	1042.160	973.510	920.770	854.950	881.030
49	1115.020	1161.430	1168.280	1148.600	1107.270	1022.320	951.210	895.880	828.550	857.100
50	1096.900	1144.330	1152.130	1130.390	1089.720	1003.620	928.580	871.580	803.560	833.280
51	1077.690	1126.010	1134.340	1111.930	1070.780	982.390	905.200	847.900	782.360	809.080
52	1059.350	1108.140	1117.600	1094.230	1052.350	962.960	883.500	824.460	756.140	785.600
53	1041.370	1089.820	1099.820	1077.280	1033.900	943.850	860.880	800.590	728.680	761.320
54	1022.600	1071.240	1080.940	1060.380	1014.720	924.210	840.370	777.100	708.010	739.250
55	1004.840	1053.760	1063.770	1041.710	996.260	903.310	817.390	753.490	680.690	714.180
56	987.000	1034.930	1046.100	1022.250	977.240	882.480	794.520	728.020	655.780	690.300
57	967.310	1018.150	1026.760	1003.430	958.180	862.370	773.390	704.310	629.690	665.990
58	948.840	1000.360	1008.630	985.030	940.040	844.220	752.330	680.820	607.800	642.800
59	930.480	981.500	991.160	967.590	921.140	823.420	730.950	657.330	578.570	617.680
60	910.890	961.980	973.020	949.460	901.550	803.830	710.860	633.590	554.830	595.080
61	891.070	945.280	955.520	932.000	883.150	783.990	689.510	610.040	531.410	571.000
62	872.630	926.070	938.080	912.350	863.760	764.870	668.380	585.760	507.440	548.010
63	854.650	909.290	920.220	894.190	845.380	745.860	647.590	561.940	484.030	527.050
64	835.190	889.940	902.350	877.600	826.780	725.630	625.880	539.120	457.440	501.450
65	817.600	871.770	885.180	859.610	808.350	707.040	604.690	515.180	434.240	481.270
66	801.400	852.960	867.330	839.460	790.110	688.580	584.270	491.980	408.310	456.010
67	782.240	835.230	848.570	822.800	771.580	670.010	564.120	470.250	384.570	433.560
68	765.160	817.440	831.210	805.310	753.690	651.570	543.760	447.200	360.220	411.830
69	746.930	800.230	813.320	788.420	735.220	633.190	524.170	425.770	336.570	390.440
70	728.240	781.750	796.000	771.370	718.120	616.220	505.130	402.630	311.960	367.530
71	711.550	766.100	778.300	753.330	700.260	597.790	486.410	381.560	289.440	345.220
72	693.230	747.320	760.760	736.590	682.340	580.610	467.770	358.890	265.720	326.810
73	675.720	730.110	744.480	719.700	666.330	564.220	449.840	337.930	242.400	304.340
74	658.980	713.360	728.500	701.670	648.750	547.050	432.230	317.720	219.190	285.510
75	642.580	697.460	710.770	685.880	632.540	529.950	415.130	297.400	197.170	265.320
76	626.590	680.570	694.090	669.400	615.870	513.590	397.690	277.480	175.910	247.590
77	610.540	663.550	678.600	653.550	599.180	497.460	380.790	258.760	153.410	228.770
78	595.890	648.950	663.280	637.830	583.640	482.060	364.280	239.570	133.290	210.040
79	580.820	634.170	647.210	621.810	567.220	466.290	348.550	221.590	113.360	194.700
80	565.280	618.300	632.310	607.850	552.750	451.330	332.980	204.610	94.180	178.640
81	549.580	602.490	617.430	592.410	538.260	437.190	318.070	188.000	76.930	162.870
82	534.370	587.750	601.670	577.510	523.490	422.940	303.700	172.290	60.480	149.350
83	519.460	573.100	587.460	563.580	508.850	409.310	289.790	157.890	44.880	136.200
84	506.310	558.200	573.450	549.320	494.370	395.140	276.880	144.100	32.030	123.450
85	491.940	544.250	558.320	534.120	480.950	381.790	264.170	131.290	20.940	111.990
86	478.120	530.160	543.850	520.560	466.920	369.020	251.160	119.630	12.240	101.640
87	464.860	517.240	529.970	507.290	454.030	355.880	238.890	108.370	5.810	92.410
88	451.920	504.010	516.400	494.340	440.960	344.330	227.560	98.130	2.220	83.770
89	439.090	489.490	503.390	480.440	427.850	332.710	216.770	89.060	1.900	76.330
90	426.540	477.100	490.990	467.930	415.330	321.590	206.430	80.770	1.830	69.660
91	414.160	463.910	477.390	454.560	402.450	310.540	196.780	73.830	1.830	63.750
92	402.420	451.430	464.680	442.370	391.060	299.310	187.140	67.460	1.900	58.090

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93	390.410	439.180	452.170	431.250	380.120	289.170	178.570	61.580	1.830	53.490
94	379.060	426.310	440.350	418.580	368.420	279.170	170.830	56.430	2.300	49.450
95	368.160	414.830	429.230	407.120	358.520	268.630	163.010	52.510	2.770	45.670
96	357.170	403.410	417.590	394.820	346.690	260.340	155.190	48.470	3.320	41.820
97	347.200	392.990	405.620	386.100	335.010	252.380	148.200	45.530	3.990	37.910
98	336.280	380.480	394.700	374.940	328.120	242.590	141.070	41.760	4.480	34.730
99	325.870	370.450	383.310	364.810	317.170	233.840	136.120	38.270	5.140	32.780
100	317.520	360.240	371.840	353.860	307.280	225.970	129.820	35.410	5.820	31.460
101	307.730	350.960	362.520	343.550	297.490	219.090	124.880	33.350	6.370	30.430
102	297.860	339.920	351.270	332.670	289.050	209.610	119.540	32.660	7.040	28.910
103	290.210	330.250	341.110	324.800	279.440	204.190	114.670	31.600	7.660	28.170
104	279.170	321.340	331.150	315.120	271.480	197.110	110.170	30.760	8.260	27.620
105	272.460	311.990	323.880	306.190	264.260	189.570	104.260	29.950	8.950	26.890
106	264.820	303.230	313.420	297.020	255.610	183.380	98.980	29.160	9.630	26.490
107	255.710	292.220	304.630	288.760	246.510	176.950	93.520	28.550	10.310	26.150
108	247.460	283.780	295.850	278.130	239.440	170.950	88.750	28.200	11.110	25.950
109	240.460	275.550	288.020	270.170	231.380	165.650	83.690	27.800	11.670	25.880
110	232.300	267.610	277.270	263.140	224.450	158.870	80.230	27.390	12.410	25.750
111	224.680	259.270	270.810	255.320	217.930	151.610	78.050	26.850	13.020	25.750
112	217.630	252.250	260.570	247.400	212.080	144.900	76.650	26.380	13.690	25.690
113	210.270	244.170	255.560	240.270	203.760	139.130	74.880	25.980	14.310	25.820
114	204.230	236.720	246.530	232.530	196.610	131.780	73.060	25.630	14.930	25.890
115	196.760	229.670	239.640	225.370	189.000	125.480	70.750	24.960	15.590	26.020
116	188.890	222.280	231.910	217.620	180.200	119.410	68.810	24.830	16.280	26.160
117	180.770	213.950	223.660	209.310	172.590	115.250	67.090	24.490	16.950	26.430
118	172.800	205.330	215.460	200.620	164.830	111.880	65.310	24.420	17.370	26.630
119	164.920	196.880	206.980	192.300	157.610	109.570	63.480	24.290	17.830	26.760
120	157.370	188.150	197.940	183.490	150.350	107.540	61.930	24.080	18.250	27.100
121	150.160	180.090	189.420	175.640	143.410	104.650	60.490	24.020	18.800	27.370
122	143.360	171.840	181.060	167.820	138.420	102.070	59.010	24.080	19.330	27.570
123	138.410	164.510	173.360	160.390	134.390	99.350	57.650	23.820	19.880	27.780
124	134.500	157.180	165.420	153.350	131.120	96.250	56.420	23.420	20.420	28.110
125	131.100	151.210	158.410	147.840	128.220	93.530	55.020	23.270	21.090	28.380
126	128.270	146.310	152.140	143.410	125.480	90.950	53.990	23.540	21.440	28.520
127	125.370	141.920	147.500	139.590	121.860	88.270	52.530	23.680	21.910	28.910
128	121.820	138.710	143.400	136.390	118.670	85.720	51.350	23.810	22.390	29.120
129	118.350	135.370	140.200	133.640	115.440	83.280	50.080	23.810	22.790	29.590
130	114.850	131.870	136.670	129.850	111.670	80.840	49.010	23.880	23.140	29.790
131	111.340	128.040	133.530	125.940	108.560	78.820	47.660	23.960	23.620	29.980
132	108.040	124.320	129.710	122.380	105.250	76.510	46.650	24.040	24.010	29.850
133	104.590	120.460	125.730	118.510	102.080	74.340	45.680	24.120	24.490	29.650
134	101.420	116.640	121.940	114.910	98.910	72.020	44.680	24.190	24.770	29.530
135	98.000	112.680	117.820	110.920	95.760	69.880	43.720	24.270	25.170	29.930
136	94.670	109.100	114.080	107.450	92.720	67.820	42.780	24.350	25.520	30.390
137	91.870	105.350	110.140	103.860	89.700	65.860	41.840	24.150	25.910	30.670
138	88.780	101.570	106.380	100.370	86.830	63.850	40.890	23.820	26.130	31.210
139	85.840	98.160	102.800	96.700	83.920	61.990	40.070	23.810	26.520	32.020
140	82.800	94.710	99.110	93.370	81.000	60.240	39.400	23.610	26.940	32.680
141	80.010	91.720	95.520	90.210	78.340	58.380	38.660	23.280	27.410	33.300
142	77.070	88.480	92.360	86.910	75.790	56.540	37.720	23.140	27.750	33.900
143	74.570	85.300	89.000	83.940	73.180	54.890	36.780	23.000	27.890	34.230
144	72.000	82.270	85.870	80.970	70.860	53.310	35.680	22.940	28.030	34.490
145	69.440	79.250	82.800	77.940	68.440	51.700	35.150	23.130	28.360	34.830
146	67.110	76.460	79.470	75.090	66.170	50.100	34.600	23.340	28.430	35.030
147	64.890	73.520	76.510	72.190	63.780	48.690	34.130	23.410	28.700	35.230
148	62.630	70.920	73.640	69.780	61.660	47.230	33.530	23.340	29.040	35.430

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CANDELA TABULATION - (Cont.)

149	60.420	68.240	70.770	66.900	59.380	45.900	32.990	23.410	28.910	35.570
150	58.160	65.750	68.240	64.490	57.120	44.540	32.380	23.410	28.650	35.700
151	56.200	63.210	65.470	62.060	55.340	43.240	31.770	23.270	28.440	35.840
152	53.990	60.660	63.140	59.720	53.250	41.640	31.160	23.210	28.100	35.970
153	51.960	58.400	60.640	57.260	51.360	40.120	30.630	23.400	27.960	36.100
154	50.190	55.950	58.210	55.090	49.590	38.980	30.140	23.200	27.890	36.040
155	48.370	53.830	56.060	52.960	47.860	38.020	29.470	23.000	27.760	36.040
156	46.860	51.600	53.810	50.760	45.980	36.870	28.170	22.800	27.160	35.900
157	44.950	49.580	51.440	48.680	44.140	35.850	27.380	23.270	26.810	35.770
158	42.930	47.550	49.410	46.710	42.240	34.510	26.480	23.610	26.740	35.900
159	41.030	45.440	47.250	44.550	40.810	33.420	25.490	24.070	27.010	35.840
160	39.400	43.280	45.190	42.540	39.240	32.000	25.150	24.550	27.280	36.040
161	37.860	41.120	42.750	40.760	37.800	30.860	25.020	25.090	27.820	36.170
162	36.360	39.480	40.780	38.890	36.510	29.890	24.600	25.630	28.830	36.780
163	34.440	37.960	38.940	37.170	34.720	28.340	24.070	26.110	29.860	37.050
164	32.360	36.460	37.470	35.510	33.170	26.860	23.660	26.770	30.810	37.240
165	30.320	34.770	35.850	34.130	31.580	25.240	22.780	27.180	31.750	36.980
166	28.280	33.210	34.160	32.520	29.670	25.010	22.380	27.790	32.770	36.640
167	25.580	31.830	32.580	30.970	27.710	25.140	22.380	28.600	33.920	36.510
168	23.390	29.860	30.890	28.670	25.670	24.470	22.590	29.670	34.870	36.360
169	21.920	27.770	28.550	26.500	24.940	23.790	23.340	30.550	35.820	35.290
170	21.300	26.340	26.450	25.630	24.870	22.640	24.550	32.020	36.430	34.490
171	20.820	25.850	26.110	25.480	24.100	22.500	26.440	33.930	37.050	34.420
172	19.820	24.420	25.690	24.410	22.890	22.900	28.000	35.210	37.530	34.560
173	19.480	22.180	24.080	22.580	22.690	24.450	29.020	36.220	37.660	34.160
174	20.100	20.830	23.350	22.370	23.720	26.220	30.630	36.830	38.000	34.290
175	21.940	20.200	24.230	23.380	25.350	28.520	31.860	37.440	37.940	34.690
176	24.370	20.200	25.910	25.130	27.540	29.800	33.340	37.840	37.670	34.560
177	26.340	21.350	24.670	26.620	28.890	31.030	34.480	37.510	37.940	35.110
178	28.510	23.050	21.780	27.970	30.260	32.250	34.890	37.030	38.480	36.040
179	30.750	26.520	19.430	30.280	31.540	33.200	35.020	36.900	38.750	36.910
180	22.870	22.870	22.870	22.870	22.870	22.870	22.870	22.870	22.870	22.870

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	1599.397	1599.397	1599.397	1599.397	1599.397
1	1601.090	1598.390	1601.920	1602.270	1595.920
2	1601.750	1596.660	1600.980	1599.810	1591.390
3	1595.900	1594.280	1600.770	1600.170	1592.920
4	1592.770	1590.050	1596.300	1597.360	1591.660
5	1588.340	1589.120	1594.700	1594.570	1588.640
6	1582.680	1585.790	1590.840	1594.160	1588.670
7	1577.000	1580.090	1586.310	1591.440	1585.040
8	1573.230	1574.490	1586.840	1590.740	1584.300
9	1564.940	1571.580	1581.100	1583.780	1580.360
10	1562.870	1564.890	1573.540	1581.490	1569.830
11	1554.090	1557.310	1568.970	1575.150	1573.740
12	1542.770	1552.850	1564.450	1568.380	1569.630
13	1536.200	1546.360	1554.480	1562.990	1564.530
14	1524.120	1534.310	1549.990	1561.110	1555.160
15	1517.730	1527.520	1543.220	1551.260	1557.390
16	1505.740	1520.710	1535.190	1541.760	1544.890
17	1493.000	1508.770	1532.180	1542.930	1540.200
18	1485.040	1497.980	1516.670	1539.100	1537.520
19	1468.740	1485.120	1508.340	1529.140	1530.710

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CANDELA TABULATION - (Cont.)

20	1459.360	1478.320	1504.430	1524.500	1519.380
21	1446.550	1473.410	1497.610	1517.520	1516.090
22	1428.320	1455.880	1484.490	1504.720	1507.230
23	1415.110	1446.460	1468.480	1499.920	1500.430
24	1401.910	1435.060	1463.330	1488.860	1493.900
25	1382.940	1421.290	1453.680	1482.130	1482.040
26	1371.070	1411.510	1439.300	1472.560	1472.970
27	1356.010	1391.010	1431.680	1463.060	1462.650
28	1334.500	1373.550	1419.480	1455.720	1455.170
29	1322.440	1359.920	1410.320	1442.020	1439.770
30	1302.350	1350.790	1396.330	1434.890	1431.160
31	1284.610	1335.260	1379.740	1420.370	1427.740
32	1266.960	1318.500	1371.450	1408.920	1413.100
33	1247.270	1301.030	1357.930	1398.310	1401.560
34	1232.760	1288.500	1335.530	1386.410	1394.250
35	1211.580	1271.320	1326.770	1367.590	1384.390
36	1188.860	1253.560	1313.380	1359.610	1368.110
37	1172.580	1236.270	1297.730	1346.630	1356.660
38	1152.510	1217.830	1281.590	1334.390	1341.460
39	1132.520	1205.400	1264.970	1319.620	1331.440
40	1111.130	1188.680	1247.910	1303.380	1316.690
41	1089.330	1167.350	1236.720	1288.550	1301.310
42	1069.630	1149.090	1217.190	1277.410	1292.910
43	1049.860	1132.050	1199.690	1261.300	1274.850
44	1028.120	1112.550	1182.270	1246.560	1263.360
45	1006.250	1094.310	1168.250	1230.380	1244.100
46	984.060	1075.740	1154.440	1212.380	1225.400
47	966.040	1056.930	1138.460	1201.960	1210.050
48	944.270	1035.070	1117.780	1184.620	1199.070
49	922.070	1019.310	1099.300	1166.400	1181.730
50	901.320	1001.060	1081.830	1151.010	1164.750
51	882.680	981.760	1063.060	1132.300	1149.900
52	860.120	961.270	1047.750	1114.930	1128.230
53	836.910	942.770	1030.260	1099.080	1113.140
54	816.460	919.580	1010.600	1075.920	1097.700
55	793.340	895.790	990.290	1060.440	1073.880
56	772.660	878.080	970.830	1043.690	1058.190
57	748.430	857.710	949.610	1026.160	1040.200
58	728.740	838.320	934.190	1007.520	1018.890
59	707.410	818.190	918.620	989.720	1004.430
60	685.660	797.380	896.950	970.230	985.640
61	664.620	778.050	874.460	951.170	970.920
62	642.830	759.700	862.460	932.340	951.930
63	625.140	740.620	841.210	914.900	935.500
64	601.630	719.550	824.230	896.870	908.430
65	579.940	700.970	802.250	876.590	890.650
66	560.020	681.740	784.090	858.950	875.110
67	541.880	663.550	764.190	839.950	856.430
68	520.370	644.870	747.570	821.540	838.450
69	502.840	626.740	728.330	802.890	819.550
70	482.800	608.120	711.770	785.650	799.280
71	466.150	592.330	691.770	768.120	781.530
72	447.090	574.240	677.540	748.260	764.440
73	428.450	556.810	660.300	729.810	747.990
74	410.820	537.810	642.450	712.710	730.150
75	394.810	521.980	623.810	695.630	711.780

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CANDELA TABULATION - (Cont.)

76	375.870	503.970	608.630	677.550	692.750
77	358.970	487.820	592.830	660.060	675.930
78	344.660	472.540	574.260	643.910	661.100
79	329.290	456.060	559.970	627.300	641.800
80	312.830	441.280	544.720	609.380	624.610
81	298.030	426.690	526.750	593.550	608.630
82	283.690	411.620	512.320	578.200	593.240
83	270.010	398.240	498.380	562.730	577.540
84	257.670	385.650	482.320	548.030	561.730
85	243.360	371.890	467.820	533.690	546.940
86	233.940	358.590	454.340	516.990	531.400
87	221.000	346.160	441.190	503.310	516.070
88	211.290	333.910	428.790	488.830	503.370
89	201.330	322.000	415.690	475.400	488.810
90	192.220	310.410	401.950	462.370	474.880
91	181.560	299.320	389.620	448.260	461.020
92	173.650	289.970	378.070	435.480	446.350
93	165.390	278.010	366.570	421.540	434.260
94	157.500	268.100	353.990	410.310	421.020
95	150.020	257.780	342.970	397.640	409.670
96	143.340	248.760	331.840	385.800	397.490
97	136.590	239.990	322.000	374.610	385.920
98	130.010	231.560	311.310	364.200	374.530
99	124.470	222.730	300.540	353.120	363.460
100	118.390	214.880	290.920	341.800	352.450
101	113.570	206.870	281.700	331.370	341.760
102	107.470	199.340	272.660	322.210	331.560
103	102.020	192.130	263.960	311.960	321.420
104	96.430	184.580	256.110	301.920	312.080
105	90.870	178.220	248.310	292.240	302.230
106	85.190	171.720	239.540	283.060	292.700
107	80.540	164.680	231.410	274.480	283.540
108	76.510	158.020	223.650	265.590	274.730
109	73.960	151.030	215.460	256.780	265.940
110	72.090	144.130	208.870	248.400	258.110
111	70.250	136.810	200.840	240.390	249.900
112	68.460	130.090	192.540	232.160	241.420
113	66.740	123.160	184.320	223.840	233.540
114	64.680	117.290	176.620	215.510	225.310
115	63.370	111.910	168.820	206.500	217.080
116	61.850	108.100	161.180	198.560	208.670
117	60.470	104.840	153.340	189.710	199.820
118	58.910	102.700	146.440	181.260	190.660
119	57.650	100.250	139.220	173.590	182.520
120	56.410	97.800	133.370	165.260	174.220
121	55.310	94.990	129.460	157.750	166.340
122	54.260	92.470	125.520	150.470	158.980
123	53.230	90.060	122.580	144.200	152.060
124	52.210	87.800	119.790	139.790	145.550
125	51.480	85.270	116.910	135.580	140.870
126	50.520	82.730	113.460	132.170	136.810
127	49.790	80.480	110.350	129.040	133.510
128	49.040	78.150	107.180	126.130	130.370
129	48.440	76.230	104.040	122.330	127.280
130	47.760	74.440	101.070	118.690	123.690
131	46.940	72.380	97.890	115.310	120.000

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CANDELA TABULATION - (Cont.)

132	46.410	70.600	94.940	111.810	116.450
133	45.660	68.660	92.030	108.340	112.850
134	45.120	67.100	89.580	104.580	109.440
135	44.590	65.450	86.970	101.420	105.990
136	44.100	63.920	84.310	98.260	102.360
137	43.510	62.220	81.820	95.180	99.000
138	43.090	60.780	79.280	92.170	95.810
139	42.760	59.440	77.070	89.150	92.700
140	42.210	58.180	74.910	86.510	89.670
141	41.880	56.810	72.690	83.740	86.780
142	41.610	55.780	70.540	81.020	83.910
143	41.400	54.700	68.560	78.670	81.110
144	41.000	53.410	66.600	76.060	78.490
145	40.800	52.330	64.770	73.820	76.110
146	40.460	51.250	62.980	71.310	73.570
147	39.860	50.450	61.160	69.040	71.420
148	38.910	49.220	59.570	66.930	69.240
149	38.360	48.480	57.790	64.790	66.780
150	37.830	47.680	56.230	62.660	64.560
151	37.620	46.710	54.590	60.700	62.700
152	37.620	45.980	53.430	58.950	60.740
153	37.420	45.290	51.990	57.150	58.550
154	37.280	44.680	50.590	55.330	56.430
155	37.480	43.740	49.630	54.050	54.870
156	37.620	42.520	48.350	52.480	53.180
157	37.620	41.840	47.240	50.860	51.840
158	37.490	40.970	46.370	49.570	50.110
159	37.550	40.590	45.150	48.210	48.750
160	37.280	40.210	43.450	47.050	47.380
161	37.280	39.830	42.350	45.830	46.160
162	37.410	39.450	41.350	44.180	44.930
163	37.350	39.070	40.590	43.230	43.590
164	37.150	38.800	40.050	42.230	42.150
165	37.010	38.260	39.700	41.680	41.540
166	37.080	37.650	39.500	41.340	41.270
167	37.010	37.650	39.030	40.730	40.870
168	37.080	37.510	37.950	40.450	40.460
169	36.880	37.450	37.940	39.910	40.060
170	36.540	37.310	37.730	39.500	39.520
171	36.000	37.110	37.530	38.830	39.240
172	35.530	36.770	37.400	38.010	38.840
173	34.310	36.100	36.590	37.050	38.230
174	33.100	35.350	35.700	36.040	37.680
175	32.020	33.990	34.680	34.540	36.410
176	32.150	32.100	32.860	33.110	34.840
177	32.150	31.220	31.490	31.810	33.020
178	32.750	32.100	31.350	30.050	28.700
179	33.630	32.840	32.370	29.650	23.960
180	22.870	22.870	22.870	22.870	22.870

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	585.34	9.60	9.60
0-30	1245.8	20.40	20.40
0-40	2050.17	33.60	33.60
0-60	3713.47	60.90	60.90
0-80	4945.98	81.10	81.10
0-90	5329.47	87.40	87.40
10-90	5178.1	84.90	84.90
20-40	1464.82	24.00	24.00
20-50	2318.01	38.00	38.00
40-70	2357.42	38.60	38.60
60-80	1232.52	20.20	20.20
70-80	538.40	8.80	8.80
80-90	383.49	6.30	6.30
90-110	450.62	7.40	7.40
90-120	573.34	9.40	9.40
90-130	652.63	10.70	10.70
90-150	739.16	12.10	12.10
90-180	770.76	12.60	12.60
110-180	320.14	5.20	5.20
0-180	6100.23	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.37
10-20	433.98
20-30	660.45
30-40	804.37
40-50	853.19
50-60	810.11
60-70	694.12
70-80	538.40
80-90	383.49
90-100	266.45
100-110	184.17
110-120	122.72
120-130	79.29
130-140	53.08
140-150	33.46
150-160	19.15
160-170	9.47
170-180	2.98

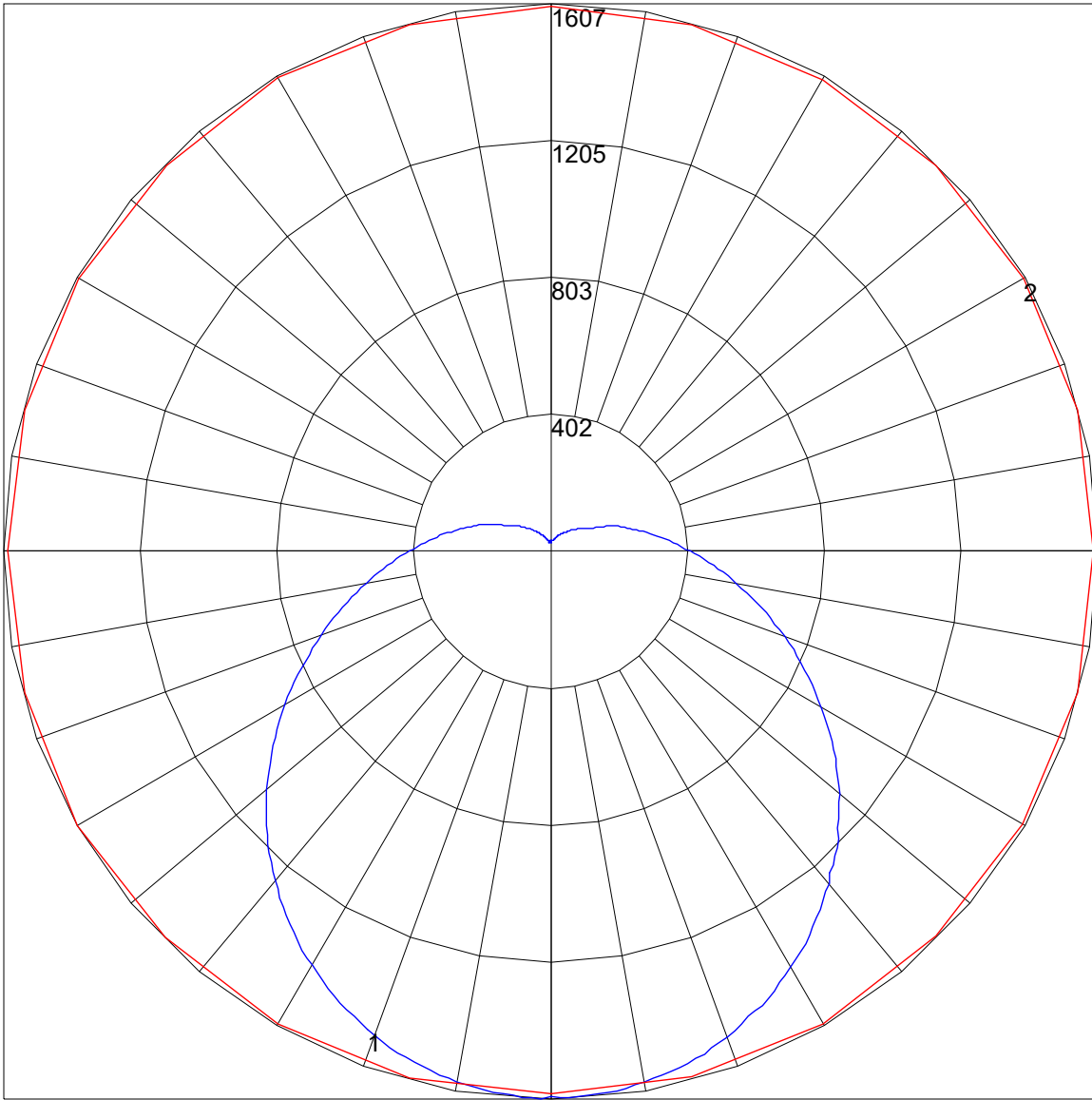
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	104	98	93	88	99	94	90	86	88	84	80	82	79	76	76	74	71	68
2	93	84	77	70	89	81	74	68	75	70	65	70	66	61	65	62	58	55
3	85	73	65	57	81	71	63	56	66	59	54	61	56	51	57	53	49	46
4	77	65	55	48	74	62	54	47	58	51	45	54	48	43	51	46	41	39
5	71	57	48	41	68	56	47	40	52	44	39	49	42	37	46	40	36	33
6	65	52	42	36	63	50	41	35	47	39	34	44	37	32	41	36	31	29
7	60	47	38	31	58	45	37	31	42	35	30	40	33	29	38	32	28	25
8	56	42	34	28	54	41	33	27	39	32	26	37	30	25	34	29	25	22
9	52	39	31	25	50	38	30	24	36	29	24	34	27	23	32	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 1606.97 Located At Horizontal Angle = 210, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (210 - 30) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)