



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P3950-LED35-HO-FWA-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] P3950-LED35-HO-FWA -D9
 [TESTLAB] Intertek
 [ISSUE DATE] November 28, 2017
 [MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	43358
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	444
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	5.00 ft (Diameter)
Luminous Width (90-270)	5.00 ft (Diameter)
Luminous Height	0.50 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5144	5135	5119
55	4728	4699	4676
65	4154	4116	4067
75	3304	3254	3163
85	1704	1657	1545

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P3950-LED35-HO-FWA-D9.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	11371.574	11371.574	11371.574	11371.574	11371.574	11371.574	11371.574	11371.574	11371.574	11371.574
2.5	11349.903	11354.575	11356.622	11360.449	11363.164	11360.449	11356.622	11354.575	11349.903	11354.575
5.0	11298.683	11312.701	11309.452	11315.682	11322.046	11315.682	11309.452	11312.701	11298.683	11312.701
7.5	11238.920	11244.794	11243.592	11244.838	11249.377	11244.838	11243.592	11244.794	11238.920	11244.794
10.0	11130.473	11147.517	11143.467	11145.025	11139.062	11145.025	11143.467	11147.517	11130.473	11147.517
12.5	11015.619	11020.425	11019.535	11018.467	11018.645	11018.467	11019.535	11020.425	11015.619	11020.425
15.0	10868.457	10875.355	10874.999	10871.661	10863.028	10871.661	10874.999	10875.355	10868.457	10875.355
17.5	10701.716	10706.210	10702.695	10703.807	10696.242	10703.807	10702.695	10706.210	10701.716	10706.210
20.0	10510.544	10518.198	10509.876	10508.408	10500.620	10508.408	10509.876	10518.198	10510.544	10518.198
22.5	10292.894	10303.752	10296.098	10294.407	10283.238	10294.407	10296.098	10303.752	10292.894	10303.752
25.0	10054.374	10065.811	10060.026	10055.798	10052.995	10055.798	10060.026	10065.811	10054.374	10065.811
27.5	9807.844	9812.517	9804.952	9801.614	9797.253	9801.614	9804.952	9812.517	9807.844	9812.517
30.0	9517.037	9536.572	9523.178	9523.801	9512.943	9523.801	9523.178	9536.572	9517.037	9536.572
32.5	9215.638	9239.624	9232.281	9226.051	9215.594	9226.051	9232.281	9239.624	9215.638	9239.624
35.0	8912.282	8927.456	8914.418	8906.185	8896.529	8906.185	8914.418	8927.456	8912.282	8927.456
37.5	8591.659	8591.348	8581.825	8574.527	8560.509	8574.527	8581.825	8591.348	8591.659	8591.348
40.0	8246.651	8240.866	8228.183	8215.145	8204.732	8215.145	8228.183	8240.866	8246.651	8240.866
42.5	7878.636	7873.518	7861.459	7845.127	7840.455	7845.127	7861.459	7873.518	7878.636	7873.518
45.0	7486.813	7487.214	7473.463	7459.846	7450.145	7459.846	7473.463	7487.214	7486.813	7487.214
47.5	7085.512	7091.564	7072.607	7062.239	7051.514	7062.239	7072.607	7091.564	7085.512	7091.564
50.0	6685.502	6683.677	6660.982	6647.276	6639.222	6647.276	6660.982	6683.677	6685.502	6683.677
52.5	6278.460	6266.401	6244.774	6224.615	6213.357	6224.615	6244.774	6266.401	6278.460	6266.401
55.0	5851.750	5840.936	5815.749	5792.075	5787.447	5792.075	5815.749	5840.936	5851.750	5840.936
57.5	5413.870	5401.276	5380.050	5355.174	5347.120	5355.174	5380.050	5401.276	5413.870	5401.276
60.0	4964.731	4959.391	4939.411	4911.020	4898.204	4911.020	4939.411	4959.391	4964.731	4959.391
62.5	4524.092	4516.438	4493.654	4459.834	4448.220	4459.834	4493.654	4516.438	4524.092	4516.438
65.0	4081.006	4067.967	4043.314	4007.848	3994.676	4007.848	4043.314	4067.967	4081.006	4067.967
67.5	3643.393	3619.496	3596.045	3554.838	3540.019	3554.838	3596.045	3619.496	3643.393	3619.496
70.0	3186.022	3174.630	3152.958	3105.966	3090.169	3105.966	3152.958	3174.630	3186.022	3174.630
72.5	2741.467	2731.410	2709.382	2658.118	2638.538	2658.118	2709.382	2731.410	2741.467	2731.410
75.0	2303.231	2296.956	2268.521	2221.529	2204.708	2221.529	2268.521	2296.956	2303.231	2296.956
77.5	1882.172	1869.178	1846.394	1796.242	1783.871	1796.242	1846.394	1869.178	1882.172	1869.178
80.0	1468.945	1447.318	1427.738	1383.727	1371.490	1383.727	1427.738	1447.318	1468.945	1447.318
82.5	1055.807	1044.504	1029.285	986.876	972.992	986.876	1029.285	1044.504	1055.807	1044.504
85.0	665.987	658.155	647.519	612.186	603.731	612.186	647.519	658.155	665.987	658.155
87.5	304.914	306.382	314.481	329.567	351.639	329.567	314.481	306.382	304.914	306.382
90.0	50.997	179.602	311.055	363.832	353.330	363.832	311.055	179.602	50.997	179.602
92.5	94.162	243.059	449.094	596.789	634.258	596.789	449.094	243.059	94.162	243.059
95.0	187.567	309.453	528.882	702.566	759.882	702.566	528.882	309.453	187.567	309.453
97.5	289.962	386.660	609.650	790.720	851.285	790.720	609.650	386.660	289.962	386.660
100.0	381.365	472.990	697.715	881.011	943.400	881.011	697.715	472.990	381.365	472.990
102.5	499.156	567.642	789.252	976.953	1047.218	976.953	789.252	567.642	499.156	567.642
105.0	601.729	672.439	886.084	1076.588	1142.671	1076.588	886.084	672.439	601.729	672.439
107.5	716.806	777.815	989.101	1178.048	1243.864	1178.048	989.101	777.815	716.806	777.815
110.0	847.057	896.497	1099.639	1285.338	1350.842	1285.338	1099.639	896.497	847.057	896.497
112.5	964.715	1023.589	1205.905	1391.159	1460.712	1391.159	1205.905	1023.589	964.715	1023.589
115.0	1096.302	1145.074	1320.092	1507.348	1574.499	1507.348	1320.092	1145.074	1096.302	1145.074
117.5	1236.788	1272.077	1442.645	1624.428	1688.285	1624.428	1442.645	1272.077	1236.788	1272.077
120.0	1357.294	1412.608	1574.232	1744.133	1809.459	1744.133	1574.232	1412.608	1357.294	1412.608
122.5	1486.344	1559.458	1703.682	1867.531	1934.904	1867.531	1703.682	1559.458	1486.344	1559.458
125.0	1639.291	1694.382	1836.782	1991.152	2053.719	1991.152	1836.782	1694.382	1639.291	1694.382
127.5	1779.777	1820.094	1977.001	2116.687	2177.118	2116.687	1977.001	1820.094	1779.777	1820.094
130.0	1926.983	1946.741	2120.247	2243.423	2300.249	2243.423	2120.247	1946.741	1926.983	1946.741
132.5	2044.196	2084.602	2260.466	2372.161	2428.765	2372.161	2260.466	2084.602	2044.196	2084.602

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P3950-LED35-HO-FWA-D9.IES

CANDELA TABULATION - (Cont.)

135.0	2179.877	2227.759	2386.090	2491.332	2546.512	2491.332	2386.090	2227.759	2179.877	2227.759
137.5	2319.429	2372.784	2506.729	2612.862	2664.393	2612.862	2506.729	2372.784	2319.429	2372.784
140.0	2460.850	2514.873	2618.914	2728.962	2775.643	2728.962	2618.914	2514.873	2460.850	2514.873
142.5	2607.166	2648.061	2734.080	2839.589	2881.553	2839.589	2734.080	2648.061	2607.166	2648.061
145.0	2738.752	2772.305	2844.529	2945.989	2986.884	2945.989	2844.529	2772.305	2738.752	2772.305
147.5	2849.646	2881.731	2952.530	3042.198	3078.599	3042.198	2952.530	2881.731	2849.646	2881.731
150.0	2962.009	2979.898	3057.417	3139.030	3165.952	3139.030	3057.417	2979.898	2962.009	2979.898
152.5	3058.885	3080.735	3153.759	3224.514	3250.992	3224.514	3153.759	3080.735	3058.885	3080.735
155.0	3153.537	3179.347	3241.157	3304.881	3324.461	3304.881	3241.157	3179.347	3153.537	3179.347
157.5	3251.926	3274.443	3325.796	3377.105	3395.483	3377.105	3325.796	3274.443	3251.926	3274.443
160.0	3339.591	3356.145	3401.357	3444.211	3458.896	3444.211	3401.357	3356.145	3339.591	3356.145
162.5	3419.869	3432.285	3471.133	3504.241	3514.877	3504.241	3471.133	3432.285	3419.869	3432.285
165.0	3492.226	3499.613	3529.962	3553.547	3561.424	3553.547	3529.962	3499.613	3492.226	3499.613
167.5	3554.437	3559.154	3580.292	3598.537	3604.455	3598.537	3580.292	3559.154	3554.437	3559.154
170.0	3603.610	3608.994	3622.700	3636.228	3638.587	3636.228	3622.700	3608.994	3603.610	3608.994
172.5	3643.882	3649.534	3655.853	3667.957	3665.687	3667.957	3655.853	3649.534	3643.882	3649.534
175.0	3670.449	3675.789	3681.173	3685.445	3685.757	3685.445	3681.173	3675.789	3670.449	3675.789
177.5	3689.762	3693.188	3693.589	3698.395	3695.903	3698.395	3693.589	3693.188	3689.762	3693.188
180.0	3697.994	3697.994	3697.994	3697.994	3697.994	3697.994	3697.994	3697.994	3697.994	3697.994

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	11371.574	11371.574	11371.574	11371.574	11371.574	11371.574	11371.574
2.5	11356.622	11360.449	11363.164	11360.449	11356.622	11354.575	11349.903
5.0	11309.452	11315.682	11322.046	11315.682	11309.452	11312.701	11298.683
7.5	11243.592	11244.838	11249.377	11244.838	11243.592	11244.794	11238.920
10.0	11143.467	11145.025	11139.062	11145.025	11143.467	11147.517	11130.473
12.5	11019.535	11018.467	11018.645	11018.467	11019.535	11020.425	11015.619
15.0	10874.999	10871.661	10863.028	10871.661	10874.999	10875.355	10868.457
17.5	10702.695	10703.807	10696.242	10703.807	10702.695	10706.210	10701.716
20.0	10509.876	10508.408	10500.620	10508.408	10509.876	10518.198	10510.544
22.5	10296.098	10294.407	10283.238	10294.407	10296.098	10303.752	10292.894
25.0	10060.026	10055.798	10052.995	10055.798	10060.026	10065.811	10054.374
27.5	9804.952	9801.614	9797.253	9801.614	9804.952	9812.517	9807.844
30.0	9523.178	9523.801	9512.943	9523.801	9523.178	9536.572	9517.037
32.5	9232.281	9226.051	9215.594	9226.051	9232.281	9239.624	9215.638
35.0	8914.418	8906.185	8896.529	8906.185	8914.418	8927.456	8912.282
37.5	8581.825	8574.527	8560.509	8574.527	8581.825	8591.348	8591.659
40.0	8228.183	8215.145	8204.732	8215.145	8228.183	8240.866	8246.651
42.5	7861.459	7845.127	7840.455	7845.127	7861.459	7873.518	7878.636
45.0	7473.463	7459.846	7450.145	7459.846	7473.463	7487.214	7486.813
47.5	7072.607	7062.239	7051.514	7062.239	7072.607	7091.564	7085.512
50.0	6660.982	6647.276	6639.222	6647.276	6660.982	6683.677	6685.502
52.5	6244.774	6224.615	6213.357	6224.615	6244.774	6266.401	6278.460
55.0	5815.749	5792.075	5787.447	5792.075	5815.749	5840.936	5851.750
57.5	5380.050	5355.174	5347.120	5355.174	5380.050	5401.276	5413.870
60.0	4939.411	4911.020	4898.204	4911.020	4939.411	4959.391	4964.731
62.5	4493.654	4459.834	4448.220	4459.834	4493.654	4516.438	4524.092
65.0	4043.314	4007.848	3994.676	4007.848	4043.314	4067.967	4081.006
67.5	3596.045	3554.838	3540.019	3554.838	3596.045	3619.496	3643.393
70.0	3152.958	3105.966	3090.169	3105.966	3152.958	3174.630	3186.022
72.5	2709.382	2658.118	2638.538	2658.118	2709.382	2731.410	2741.467
75.0	2268.521	2221.529	2204.708	2221.529	2268.521	2296.956	2303.231
77.5	1846.394	1796.242	1783.871	1796.242	1846.394	1869.178	1882.172
80.0	1427.738	1383.727	1371.490	1383.727	1427.738	1447.318	1468.945

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P3950-LED35-HO-FWA-D9.IES

CANDELA TABULATION - (Cont.)

82.5	1029.285	986.876	972.992	986.876	1029.285	1044.504	1055.807
85.0	647.519	612.186	603.731	612.186	647.519	658.155	665.987
87.5	314.481	329.567	351.639	329.567	314.481	306.382	304.914
90.0	311.055	363.832	353.330	363.832	311.055	179.602	50.997
92.5	449.094	596.789	634.258	596.789	449.094	243.059	94.162
95.0	528.882	702.566	759.882	702.566	528.882	309.453	187.567
97.5	609.650	790.720	851.285	790.720	609.650	386.660	289.962
100.0	697.715	881.011	943.400	881.011	697.715	472.990	381.365
102.5	789.252	976.953	1047.218	976.953	789.252	567.642	499.156
105.0	886.084	1076.588	1142.671	1076.588	886.084	672.439	601.729
107.5	989.101	1178.048	1243.864	1178.048	989.101	777.815	716.806
110.0	1099.639	1285.338	1350.842	1285.338	1099.639	896.497	847.057
112.5	1205.905	1391.159	1460.712	1391.159	1205.905	1023.589	964.715
115.0	1320.092	1507.348	1574.499	1507.348	1320.092	1145.074	1096.302
117.5	1442.645	1624.428	1688.285	1624.428	1442.645	1272.077	1236.788
120.0	1574.232	1744.133	1809.459	1744.133	1574.232	1412.608	1357.294
122.5	1703.682	1867.531	1934.904	1867.531	1703.682	1559.458	1486.344
125.0	1836.782	1991.152	2053.719	1991.152	1836.782	1694.382	1639.291
127.5	1977.001	2116.687	2177.118	2116.687	1977.001	1820.094	1779.777
130.0	2120.247	2243.423	2300.249	2243.423	2120.247	1946.741	1926.983
132.5	2260.466	2372.161	2428.765	2372.161	2260.466	2084.602	2044.196
135.0	2386.090	2491.332	2546.512	2491.332	2386.090	2227.759	2179.877
137.5	2506.729	2612.862	2664.393	2612.862	2506.729	2372.784	2319.429
140.0	2618.914	2728.962	2775.643	2728.962	2618.914	2514.873	2460.850
142.5	2734.080	2839.589	2881.553	2839.589	2734.080	2648.061	2607.166
145.0	2844.529	2945.989	2986.884	2945.989	2844.529	2772.305	2738.752
147.5	2952.530	3042.198	3078.599	3042.198	2952.530	2881.731	2849.646
150.0	3057.417	3139.030	3165.952	3139.030	3057.417	2979.898	2962.009
152.5	3153.759	3224.514	3250.992	3224.514	3153.759	3080.735	3058.885
155.0	3241.157	3304.881	3324.461	3304.881	3241.157	3179.347	3153.537
157.5	3325.796	3377.105	3395.483	3377.105	3325.796	3274.443	3251.926
160.0	3401.357	3444.211	3458.896	3444.211	3401.357	3356.145	3339.591
162.5	3471.133	3504.241	3514.877	3504.241	3471.133	3432.285	3419.869
165.0	3529.962	3553.547	3561.424	3553.547	3529.962	3499.613	3492.226
167.5	3580.292	3598.537	3604.455	3598.537	3580.292	3559.154	3554.437
170.0	3622.700	3636.228	3638.587	3636.228	3622.700	3608.994	3603.610
172.5	3655.853	3667.957	3665.687	3667.957	3655.853	3649.534	3643.882
175.0	3681.173	3685.445	3685.757	3685.445	3681.173	3675.789	3670.449
177.5	3693.589	3698.395	3695.903	3698.395	3693.589	3693.188	3689.762
180.0	3697.994	3697.994	3697.994	3697.994	3697.994	3697.994	3697.994

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P3950-LED35-HO-FWA-D9.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4142.5	N.A.	9.60
0-30	8778.36	N.A.	20.20
0-40	14353.23	N.A.	33.10
0-60	25314.21	N.A.	58.40
0-80	31706.00	N.A.	73.10
0-90	32473.13	N.A.	74.90
10-90	31398.57	N.A.	72.40
20-40	10210.73	N.A.	23.50
20-50	15973.75	N.A.	36.80
40-70	14959.3	N.A.	34.50
60-80	6391.79	N.A.	14.70
70-80	2393.47	N.A.	5.50
80-90	767.13	N.A.	1.80
90-110	1468.77	N.A.	3.40
90-120	2786.53	N.A.	6.40
90-130	4434.56	N.A.	10.20
90-150	8046.33	N.A.	18.60
90-180	10884.8	N.A.	25.10
110-180	9416.03	N.A.	21.70
0-180	43357.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1074.56
10-20	3067.94
20-30	4635.86
30-40	5574.88
40-50	5763.02
50-60	5197.96
60-70	3998.32
70-80	2393.47
80-90	767.13
90-100	538.95
100-110	929.82
110-120	1317.77
120-130	1648.03
130-140	1827.04
140-150	1784.72
150-160	1493.9
160-170	995.09
170-180	349.48

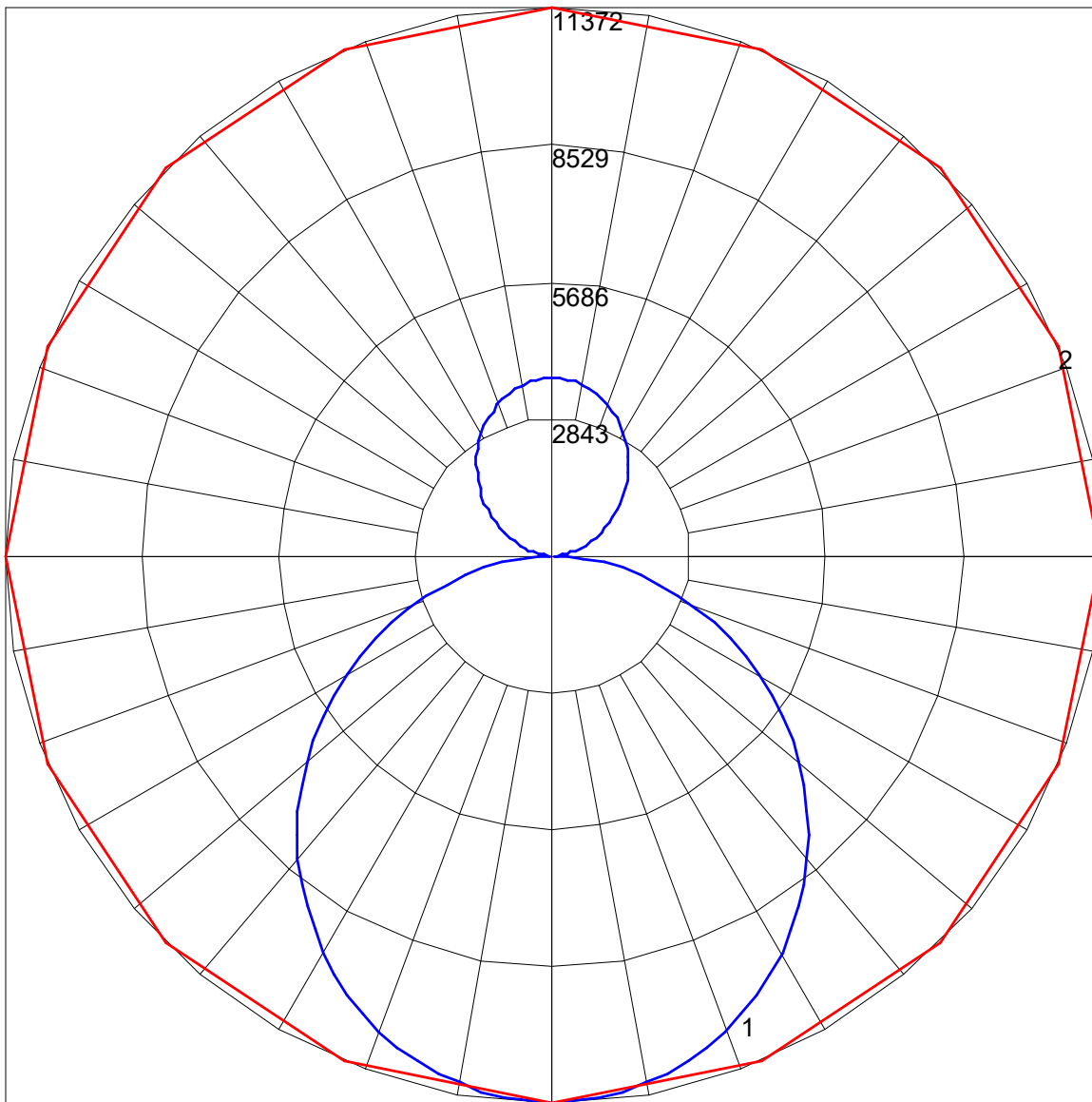
IES INDOOR REPORT
PHOTOMETRIC FILENAME : P3950-LED35-HO-FWA-D9.IES

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	98	94	90	98	94	90	86	85	82	79	77	74	72	69	68	66	62
2	94	86	79	73	89	82	76	71	74	69	65	67	63	60	61	58	55	52
3	85	75	67	61	81	72	64	59	65	59	54	59	54	50	53	50	47	43
4	78	66	58	51	74	63	56	50	58	51	46	52	47	43	48	43	40	37
5	72	59	50	44	68	57	49	43	52	45	40	47	42	37	43	38	35	32
6	66	53	44	38	62	51	43	37	47	40	35	42	37	33	39	34	30	28
7	61	48	40	34	58	46	38	33	42	36	31	39	33	29	35	31	27	25
8	57	44	35	30	54	42	34	29	39	32	27	35	30	26	32	28	24	22
9	53	40	32	27	50	38	31	26	35	29	25	33	27	23	30	25	22	20
10	49	37	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

POLAR GRAPH



Maximum Candela = 11371.574 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)