



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P3950-LED35-SO-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	29717
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	300
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	3526	3519	3508
55	3240	3221	3205
65	2847	2821	2787
75	2264	2230	2168
85	1168	1136	1059

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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	7794.000	7794.000	7794.000	7794.000	7794.000	7794.000	7794.000	7794.000	7794.000	7794.000
2.5	7779.147	7782.349	7783.752	7786.375	7788.236	7786.375	7783.752	7782.349	7779.147	7782.349
5.0	7744.041	7753.649	7751.422	7755.692	7760.054	7755.692	7751.422	7753.649	7744.041	7753.649
7.5	7703.080	7707.106	7706.282	7707.136	7710.247	7707.136	7706.282	7707.106	7703.080	7707.106
10.0	7628.751	7640.433	7637.657	7638.725	7634.638	7638.725	7637.657	7640.433	7628.751	7640.433
12.5	7550.031	7553.325	7552.715	7551.983	7552.105	7551.983	7552.715	7553.325	7550.031	7553.325
15.0	7449.167	7453.895	7453.651	7451.363	7445.446	7451.363	7453.651	7453.895	7449.167	7453.895
17.5	7334.884	7337.964	7335.555	7336.317	7331.132	7336.317	7335.555	7337.964	7334.884	7337.964
20.0	7203.856	7209.102	7203.398	7202.392	7197.054	7202.392	7203.398	7209.102	7203.856	7209.102
22.5	7054.680	7062.122	7056.876	7055.717	7048.062	7055.717	7056.876	7062.122	7054.680	7062.122
25.0	6891.200	6899.039	6895.074	6892.176	6890.255	6892.176	6895.074	6899.039	6891.200	6899.039
27.5	6722.230	6725.433	6720.248	6717.960	6714.971	6717.960	6720.248	6725.433	6722.230	6725.433
30.0	6522.913	6536.302	6527.122	6527.549	6520.107	6527.549	6527.122	6536.302	6522.913	6536.302
32.5	6316.336	6332.776	6327.743	6323.473	6316.306	6323.473	6327.743	6332.776	6316.336	6332.776
35.0	6108.418	6118.818	6109.882	6104.239	6097.621	6104.239	6109.882	6118.818	6108.418	6118.818
37.5	5888.665	5888.452	5881.925	5876.923	5867.315	5876.923	5881.925	5888.452	5888.665	5888.452
40.0	5652.199	5648.234	5639.541	5630.605	5623.468	5630.605	5639.541	5648.234	5652.199	5648.234
42.5	5399.964	5396.456	5388.191	5376.997	5373.795	5376.997	5388.191	5396.456	5399.964	5396.456
45.0	5131.411	5131.686	5122.261	5112.928	5106.279	5112.928	5122.261	5131.686	5131.411	5131.686
47.5	4856.362	4860.510	4847.517	4840.411	4833.060	4840.411	4847.517	4860.510	4856.362	4860.510
50.0	4582.198	4580.947	4565.392	4555.998	4550.478	4555.998	4565.392	4580.947	4582.198	4580.947
52.5	4303.214	4294.949	4280.126	4266.309	4258.593	4266.309	4280.126	4294.949	4303.214	4294.949
55.0	4010.750	4003.338	3986.075	3969.849	3966.677	3969.849	3986.075	4003.338	4010.750	4003.338
57.5	3710.630	3701.998	3687.450	3670.400	3664.880	3670.400	3687.450	3701.998	3710.630	3701.998
60.0	3402.793	3399.133	3385.439	3365.980	3357.196	3365.980	3385.439	3399.133	3402.793	3399.133
62.5	3100.782	3095.536	3079.920	3056.740	3048.780	3056.740	3079.920	3095.536	3100.782	3095.536
65.0	2797.094	2788.157	2771.260	2746.952	2737.924	2746.952	2771.260	2788.157	2797.094	2788.157
67.5	2497.157	2480.778	2464.705	2436.462	2426.305	2436.462	2464.705	2480.778	2497.157	2480.778
70.0	2183.678	2175.870	2161.016	2128.808	2117.981	2128.808	2161.016	2175.870	2183.678	2175.870
72.5	1878.983	1872.090	1856.992	1821.856	1808.436	1821.856	1856.992	1872.090	1878.983	1872.090
75.0	1578.619	1574.318	1554.829	1522.621	1511.092	1522.621	1554.829	1574.318	1578.619	1574.318
77.5	1290.028	1281.122	1265.506	1231.132	1222.653	1231.132	1265.506	1281.122	1290.028	1281.122
80.0	1006.805	991.982	978.562	948.397	940.010	948.397	978.562	991.982	1006.805	991.982
82.5	723.643	715.896	705.465	676.398	666.882	676.398	705.465	715.896	723.643	715.896
85.0	456.463	451.095	443.805	419.588	413.793	419.588	443.805	451.095	456.463	451.095
87.5	208.986	209.992	215.543	225.883	241.011	225.883	215.543	209.992	208.986	209.992
90.0	34.953	123.098	213.195	249.368	242.170	249.368	213.195	123.098	34.953	123.098
92.5	64.538	166.591	307.806	409.035	434.716	409.035	307.806	166.591	64.538	166.591
95.0	128.557	212.097	362.492	481.534	520.818	481.534	362.492	212.097	128.557	212.097
97.5	198.738	265.014	417.850	541.954	583.465	541.954	417.850	265.014	198.738	265.014
100.0	261.385	324.184	478.209	603.839	646.600	603.839	478.209	324.184	261.385	324.184
102.5	342.118	389.058	540.948	669.597	717.756	669.597	540.948	389.058	342.118	389.058
105.0	412.421	460.885	607.316	737.886	783.179	737.886	607.316	460.885	412.421	460.885
107.5	491.294	533.109	677.923	807.426	852.536	807.426	677.923	533.109	491.294	533.109
110.0	580.567	614.453	753.685	880.962	925.858	880.962	753.685	614.453	580.567	614.453
112.5	661.209	701.561	826.519	953.491	1001.162	953.491	826.519	701.561	661.209	701.561
115.0	751.398	784.826	904.782	1033.126	1079.151	1033.126	904.782	784.826	751.398	784.826
117.5	847.686	871.873	988.779	1113.372	1157.139	1113.372	988.779	871.873	847.686	871.873
120.0	930.280	968.192	1078.968	1195.417	1240.191	1195.417	1078.968	968.192	930.280	968.192
122.5	1018.730	1068.842	1167.692	1279.993	1326.170	1279.993	1167.692	1068.842	1018.730	1068.842
125.0	1123.559	1161.318	1258.918	1364.722	1407.605	1364.722	1258.918	1161.318	1123.559	1161.318
127.5	1219.847	1247.480	1355.023	1450.763	1492.182	1450.763	1355.023	1247.480	1219.847	1247.480
130.0	1320.741	1334.283	1453.203	1537.627	1576.575	1537.627	1453.203	1334.283	1320.741	1334.283
132.5	1401.078	1428.772	1549.308	1625.863	1664.659	1625.863	1549.308	1428.772	1401.078	1428.772

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CANDELA TABULATION - (Cont.)

135.0	1494.073	1526.891	1635.410	1707.542	1745.362	1707.542	1635.410	1526.891	1494.073	1526.891
137.5	1589.721	1626.290	1718.095	1790.838	1826.157	1790.838	1718.095	1626.290	1589.721	1626.290
140.0	1686.650	1723.677	1794.986	1870.412	1902.407	1870.412	1794.986	1723.677	1686.650	1723.677
142.5	1786.934	1814.963	1873.920	1946.235	1974.997	1946.235	1873.920	1814.963	1786.934	1814.963
145.0	1877.122	1900.119	1949.621	2019.161	2047.190	2019.161	1949.621	1900.119	1877.122	1900.119
147.5	1953.128	1975.119	2023.644	2085.102	2110.051	2085.102	2023.644	1975.119	1953.128	1975.119
150.0	2030.141	2042.402	2095.533	2151.470	2169.922	2151.470	2095.533	2042.402	2030.141	2042.402
152.5	2096.539	2111.515	2161.565	2210.060	2228.208	2210.060	2161.565	2111.515	2096.539	2111.515
155.0	2161.413	2179.103	2221.467	2265.143	2278.563	2265.143	2221.467	2179.103	2161.413	2179.103
157.5	2228.848	2244.281	2279.478	2314.645	2327.241	2314.645	2279.478	2244.281	2228.848	2244.281
160.0	2288.933	2300.279	2331.267	2360.639	2370.704	2360.639	2331.267	2300.279	2288.933	2300.279
162.5	2343.955	2352.465	2379.091	2401.783	2409.073	2401.783	2379.091	2352.465	2343.955	2352.465
165.0	2393.548	2398.611	2419.412	2435.577	2440.976	2435.577	2419.412	2398.611	2393.548	2398.611
167.5	2436.187	2439.420	2453.908	2466.413	2470.469	2466.413	2453.908	2439.420	2436.187	2439.420
170.0	2469.890	2473.580	2482.974	2492.246	2493.863	2492.246	2482.974	2473.580	2469.890	2473.580
172.5	2497.492	2501.366	2505.697	2513.993	2512.437	2513.993	2505.697	2501.366	2497.492	2501.366
175.0	2515.701	2519.361	2523.051	2525.979	2526.193	2525.979	2523.051	2519.361	2515.701	2519.361
177.5	2528.938	2531.286	2531.561	2534.855	2533.147	2534.855	2531.561	2531.286	2528.938	2531.286
180.0	2534.580	2534.580	2534.580	2534.580	2534.580	2534.580	2534.580	2534.580	2534.580	2534.580

**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	7794.000	7794.000	7794.000	7794.000	7794.000	7794.000	7794.000
2.5	7783.752	7786.375	7788.236	7786.375	7783.752	7782.349	7779.147
5.0	7751.422	7755.692	7760.054	7755.692	7751.422	7753.649	7744.041
7.5	7706.282	7707.136	7710.247	7707.136	7706.282	7707.106	7703.080
10.0	7637.657	7638.725	7634.638	7638.725	7637.657	7640.433	7628.751
12.5	7552.715	7551.983	7552.105	7551.983	7552.715	7553.325	7550.031
15.0	7453.651	7451.363	7445.446	7451.363	7453.651	7453.895	7449.167
17.5	7335.555	7336.317	7331.132	7336.317	7335.555	7337.964	7334.884
20.0	7203.398	7202.392	7197.054	7202.392	7203.398	7209.102	7203.856
22.5	7056.876	7055.717	7048.062	7055.717	7056.876	7062.122	7054.680
25.0	6895.074	6892.176	6890.255	6892.176	6895.074	6899.039	6891.200
27.5	6720.248	6717.960	6714.971	6717.960	6720.248	6725.433	6722.230
30.0	6527.122	6527.549	6520.107	6527.549	6527.122	6536.302	6522.913
32.5	6327.743	6323.473	6316.306	6323.473	6327.743	6332.776	6316.336
35.0	6109.882	6104.239	6097.621	6104.239	6109.882	6118.818	6108.418
37.5	5881.925	5876.923	5867.315	5876.923	5881.925	5888.452	5888.665
40.0	5639.541	5630.605	5623.468	5630.605	5639.541	5648.234	5652.199
42.5	5388.191	5376.997	5373.795	5376.997	5388.191	5396.456	5399.964
45.0	5122.261	5112.928	5106.279	5112.928	5122.261	5131.686	5131.411
47.5	4847.517	4840.411	4833.060	4840.411	4847.517	4860.510	4856.362
50.0	4565.392	4555.998	4550.478	4555.998	4565.392	4580.947	4582.198
52.5	4280.126	4266.309	4258.593	4266.309	4280.126	4294.949	4303.214
55.0	3986.075	3969.849	3966.677	3969.849	3986.075	4003.338	4010.750
57.5	3687.450	3670.400	3664.880	3670.400	3687.450	3701.998	3710.630
60.0	3385.439	3365.980	3357.196	3365.980	3385.439	3399.133	3402.793
62.5	3079.920	3056.740	3048.780	3056.740	3079.920	3095.536	3100.782
65.0	2771.260	2746.952	2737.924	2746.952	2771.260	2788.157	2797.094
67.5	2464.705	2436.462	2426.305	2436.462	2464.705	2480.778	2497.157
70.0	2161.016	2128.808	2117.981	2128.808	2161.016	2175.870	2183.678
72.5	1856.992	1821.856	1808.436	1821.856	1856.992	1872.090	1878.983
75.0	1554.829	1522.621	1511.092	1522.621	1554.829	1574.318	1578.619
77.5	1265.506	1231.132	1222.653	1231.132	1265.506	1281.122	1290.028
80.0	978.562	948.397	940.010	948.397	978.562	991.982	1006.805

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CANDELA TABULATION - (Cont.)

82.5	705.465	676.398	666.882	676.398	705.465	715.896	723.643
85.0	443.805	419.588	413.793	419.588	443.805	451.095	456.463
87.5	215.543	225.883	241.011	225.883	215.543	209.992	208.986
90.0	213.195	249.368	242.170	249.368	213.195	123.098	34.953
92.5	307.806	409.035	434.716	409.035	307.806	166.591	64.538
95.0	362.492	481.534	520.818	481.534	362.492	212.097	128.557
97.5	417.850	541.954	583.465	541.954	417.850	265.014	198.738
100.0	478.209	603.839	646.600	603.839	478.209	324.184	261.385
102.5	540.948	669.597	717.756	669.597	540.948	389.058	342.118
105.0	607.316	737.886	783.179	737.886	607.316	460.885	412.421
107.5	677.923	807.426	852.536	807.426	677.923	533.109	491.294
110.0	753.685	880.962	925.858	880.962	753.685	614.453	580.567
112.5	826.519	953.491	1001.162	953.491	826.519	701.561	661.209
115.0	904.782	1033.126	1079.151	1033.126	904.782	784.826	751.398
117.5	988.779	1113.372	1157.139	1113.372	988.779	871.873	847.686
120.0	1078.968	1195.417	1240.191	1195.417	1078.968	968.192	930.280
122.5	1167.692	1279.993	1326.170	1279.993	1167.692	1068.842	1018.730
125.0	1258.918	1364.722	1407.605	1364.722	1258.918	1161.318	1123.559
127.5	1355.023	1450.763	1492.182	1450.763	1355.023	1247.480	1219.847
130.0	1453.203	1537.627	1576.575	1537.627	1453.203	1334.283	1320.741
132.5	1549.308	1625.863	1664.659	1625.863	1549.308	1428.772	1401.078
135.0	1635.410	1707.542	1745.362	1707.542	1635.410	1526.891	1494.073
137.5	1718.095	1790.838	1826.157	1790.838	1718.095	1626.290	1589.721
140.0	1794.986	1870.412	1902.407	1870.412	1794.986	1723.677	1686.650
142.5	1873.920	1946.235	1974.997	1946.235	1873.920	1814.963	1786.934
145.0	1949.621	2019.161	2047.190	2019.161	1949.621	1900.119	1877.122
147.5	2023.644	2085.102	2110.051	2085.102	2023.644	1975.119	1953.128
150.0	2095.533	2151.470	2169.922	2151.470	2095.533	2042.402	2030.141
152.5	2161.565	2210.060	2228.208	2210.060	2161.565	2111.515	2096.539
155.0	2221.467	2265.143	2278.563	2265.143	2221.467	2179.103	2161.413
157.5	2279.478	2314.645	2327.241	2314.645	2279.478	2244.281	2228.848
160.0	2331.267	2360.639	2370.704	2360.639	2331.267	2300.279	2288.933
162.5	2379.091	2401.783	2409.073	2401.783	2379.091	2352.465	2343.955
165.0	2419.412	2435.577	2440.976	2435.577	2419.412	2398.611	2393.548
167.5	2453.908	2466.413	2470.469	2466.413	2453.908	2439.420	2436.187
170.0	2482.974	2492.246	2493.863	2492.246	2482.974	2473.580	2469.890
172.5	2505.697	2513.993	2512.437	2513.993	2505.697	2501.366	2497.492
175.0	2523.051	2525.979	2526.193	2525.979	2523.051	2519.361	2515.701
177.5	2531.561	2534.855	2533.147	2534.855	2531.561	2531.286	2528.938
180.0	2534.580	2534.580	2534.580	2534.580	2534.580	2534.580	2534.580

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2839.24	N.A.	9.60
0-30	6016.63	N.A.	20.20
0-40	9837.61	N.A.	33.10
0-60	17350.19	N.A.	58.40
0-80	21731.08	N.A.	73.10
0-90	22256.86	N.A.	74.90
10-90	21520.37	N.A.	72.40
20-40	6998.37	N.A.	23.50
20-50	10948.3	N.A.	36.80
40-70	10253.00	N.A.	34.50
60-80	4380.89	N.A.	14.70
70-80	1640.47	N.A.	5.50
80-90	525.78	N.A.	1.80
90-110	1006.68	N.A.	3.40
90-120	1909.87	N.A.	6.40
90-130	3039.42	N.A.	10.20
90-150	5514.9	N.A.	18.60
90-180	7460.37	N.A.	25.10
110-180	6453.69	N.A.	21.70
0-180	29717.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	736.50
10-20	2102.74
20-30	3177.39
30-40	3820.98
40-50	3949.93
50-60	3562.64
60-70	2740.42
70-80	1640.47
80-90	525.78
90-100	369.39
100-110	637.29
110-120	903.19
120-130	1129.55
130-140	1252.24
140-150	1223.24
150-160	1023.91
160-170	682.03
170-180	239.53

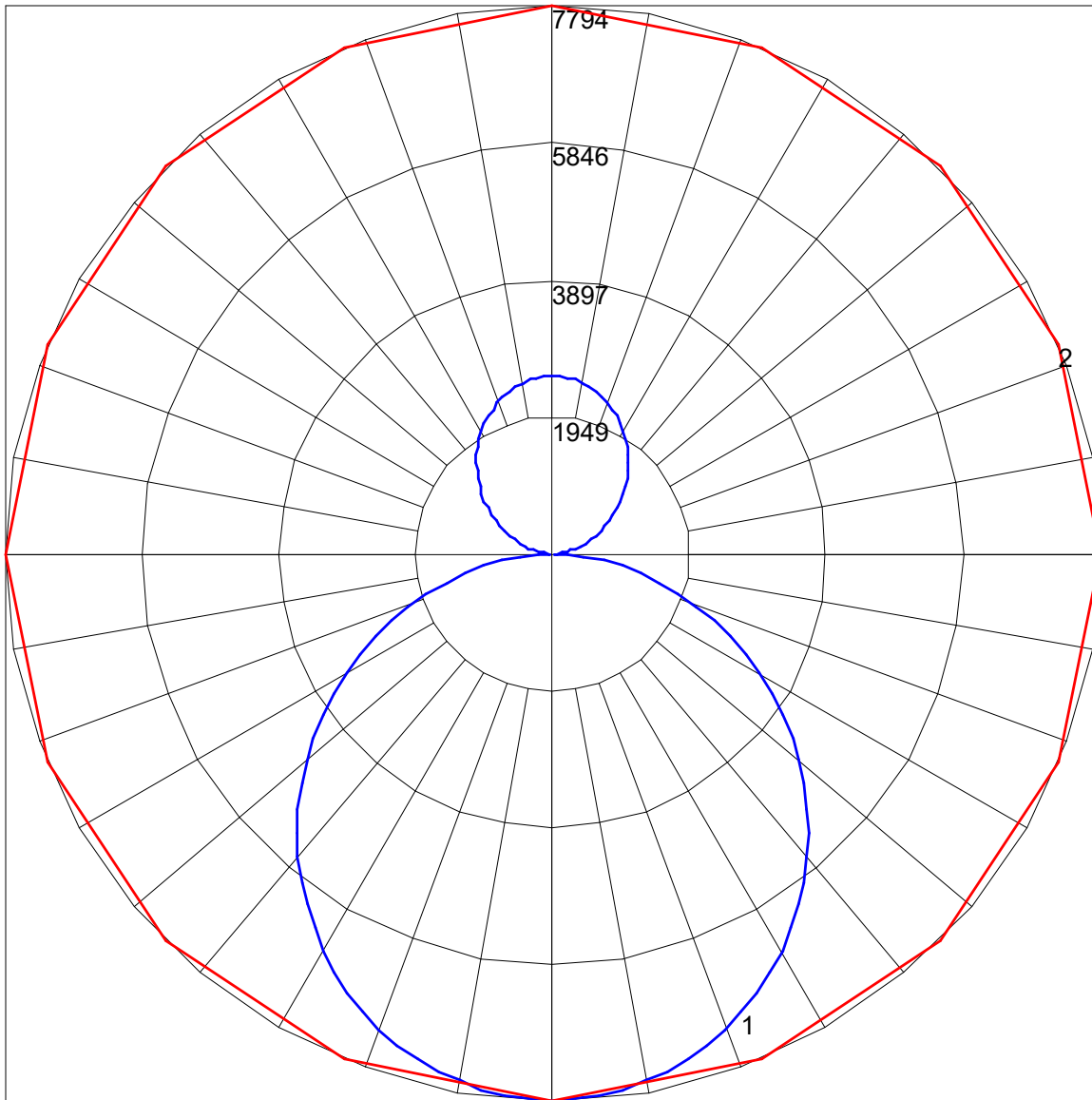
IES INDOOR REPORT
PHOTOMETRIC FILENAME : P3950-LED35-SO-FWA-D9.IES

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 = 7794 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.)