



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P3950-LED35-MO-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	22410
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	222
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	2659	2654	2646
55	2444	2429	2417
65	2147	2127	2102
75	1708	1682	1635
85	881	857	799

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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	5877.443	5877.443	5877.443	5877.443	5877.443	5877.443	5877.443	5877.443	5877.443	5877.443
2.5	5866.242	5868.657	5869.715	5871.693	5873.096	5871.693	5869.715	5868.657	5866.242	5868.657
5.0	5839.769	5847.014	5845.335	5848.555	5851.844	5848.555	5845.335	5847.014	5839.769	5847.014
7.5	5808.880	5811.916	5811.295	5811.939	5814.285	5811.939	5811.295	5811.916	5808.880	5811.916
10.0	5752.829	5761.638	5759.545	5760.350	5757.268	5760.350	5759.545	5761.638	5752.829	5761.638
12.5	5693.466	5695.950	5695.490	5694.938	5695.030	5694.938	5695.490	5695.950	5693.466	5695.950
15.0	5617.405	5620.970	5620.786	5619.061	5614.599	5619.061	5620.786	5620.970	5617.405	5620.970
17.5	5531.224	5533.547	5531.730	5532.305	5528.395	5532.305	5531.730	5533.547	5531.224	5533.547
20.0	5432.416	5436.372	5432.071	5431.312	5427.287	5431.312	5432.071	5436.372	5432.416	5436.372
22.5	5319.923	5325.535	5321.579	5320.705	5314.932	5320.705	5321.579	5325.535	5319.923	5325.535
25.0	5196.643	5202.554	5199.564	5197.379	5195.930	5197.379	5199.564	5202.554	5196.643	5202.554
27.5	5069.223	5071.638	5067.728	5066.003	5063.749	5066.003	5067.728	5071.638	5069.223	5071.638
30.0	4918.918	4929.015	4922.092	4922.414	4916.802	4922.414	4922.092	4929.015	4918.918	4929.015
32.5	4763.139	4775.536	4771.741	4768.521	4763.116	4768.521	4771.741	4775.536	4763.139	4775.536
35.0	4606.348	4614.191	4607.452	4603.197	4598.206	4603.197	4607.452	4614.191	4606.348	4614.191
37.5	4440.633	4440.472	4435.550	4431.778	4424.533	4431.778	4435.550	4440.472	4440.633	4440.472
40.0	4262.314	4259.324	4252.769	4246.030	4240.648	4246.030	4252.769	4259.324	4262.314	4259.324
42.5	4072.104	4069.459	4063.226	4054.785	4052.370	4054.785	4063.226	4069.459	4072.104	4069.459
45.0	3869.589	3869.796	3862.689	3855.651	3850.637	3855.651	3862.689	3869.796	3869.589	3869.796
47.5	3662.175	3665.303	3655.505	3650.146	3644.603	3650.146	3655.505	3665.303	3662.175	3665.303
50.0	3455.428	3454.485	3442.755	3435.671	3431.508	3435.671	3442.755	3454.485	3455.428	3454.485
52.5	3245.047	3238.814	3227.636	3217.217	3211.398	3217.217	3227.636	3238.814	3245.047	3238.814
55.0	3024.500	3018.911	3005.893	2993.657	2991.265	2993.657	3005.893	3018.911	3024.500	3018.911
57.5	2798.180	2791.671	2780.700	2767.843	2763.680	2767.843	2780.700	2791.671	2798.180	2791.671
60.0	2566.041	2563.281	2552.954	2538.280	2531.656	2538.280	2552.954	2563.281	2566.041	2563.281
62.5	2338.295	2334.339	2322.563	2305.083	2299.080	2305.083	2322.563	2334.339	2338.295	2334.339
65.0	2109.284	2102.545	2089.803	2071.472	2064.664	2071.472	2089.803	2102.545	2109.284	2102.545
67.5	1883.102	1870.751	1858.630	1837.332	1829.673	1837.332	1858.630	1870.751	1883.102	1870.751
70.0	1646.708	1640.820	1629.619	1605.331	1597.166	1605.331	1629.619	1640.820	1646.708	1640.820
72.5	1416.938	1411.740	1400.355	1373.859	1363.739	1373.859	1400.355	1411.740	1416.938	1411.740
75.0	1190.434	1187.191	1172.494	1148.206	1139.512	1148.206	1172.494	1187.191	1190.434	1187.191
77.5	972.808	966.092	954.316	928.395	922.001	928.395	954.316	966.092	972.808	966.092
80.0	759.230	748.052	737.932	715.185	708.860	715.185	737.932	748.052	759.230	748.052
82.5	545.698	539.856	531.990	510.071	502.895	510.071	531.990	539.856	545.698	539.856
85.0	344.218	340.170	334.673	316.411	312.041	316.411	334.673	340.170	344.218	340.170
87.5	157.596	158.355	162.541	170.338	181.746	170.338	162.541	158.355	157.596	158.355
90.0	26.358	92.828	160.770	188.048	182.620	188.048	160.770	92.828	26.358	92.828
92.5	48.668	125.626	232.116	308.453	327.819	308.453	232.116	125.626	48.668	125.626
95.0	96.945	159.942	273.355	363.124	392.748	363.124	273.355	159.942	96.945	159.942
97.5	149.868	199.847	315.100	408.687	439.990	408.687	315.100	199.847	149.868	199.847
100.0	197.110	244.467	360.617	455.354	487.600	455.354	360.617	244.467	197.110	244.467
102.5	257.991	293.388	407.928	504.942	541.259	504.942	407.928	293.388	257.991	293.388
105.0	311.006	347.553	457.976	556.439	590.594	556.439	457.976	347.553	311.006	347.553
107.5	370.484	402.017	511.221	608.879	642.896	608.879	511.221	402.017	370.484	402.017
110.0	437.805	463.358	568.353	664.332	698.188	664.332	568.353	463.358	437.805	463.358
112.5	498.617	529.046	623.277	719.026	754.975	719.026	623.277	529.046	498.617	529.046
115.0	566.628	591.836	682.295	779.079	813.786	779.079	682.295	591.836	566.628	591.836
117.5	639.239	657.478	745.637	839.592	872.597	839.592	745.637	657.478	639.239	657.478
120.0	701.523	730.112	813.648	901.462	935.226	901.462	813.648	730.112	701.523	730.112
122.5	768.223	806.012	880.555	965.241	1000.063	965.241	880.555	806.012	768.223	806.012
125.0	847.274	875.748	949.348	1029.135	1061.473	1029.135	949.348	875.748	847.274	875.748
127.5	919.885	940.723	1021.821	1094.018	1125.252	1094.018	1021.821	940.723	919.885	940.723
130.0	995.969	1006.181	1095.858	1159.522	1188.893	1159.522	1095.858	1006.181	995.969	1006.181
132.5	1056.551	1077.435	1168.331	1226.061	1255.317	1226.061	1168.331	1077.435	1056.551	1077.435

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CANDELA TABULATION - (Cont.)

135.0	1126.678	1151.426	1233.260	1287.655	1316.175	1287.655	1233.260	1151.426	1126.678	1151.426
137.5	1198.806	1226.383	1295.613	1350.468	1377.102	1350.468	1295.613	1226.383	1198.806	1226.383
140.0	1271.900	1299.822	1353.596	1410.475	1434.602	1410.475	1353.596	1299.822	1271.900	1299.822
142.5	1347.524	1368.661	1413.120	1467.653	1489.342	1467.653	1413.120	1368.661	1347.524	1368.661
145.0	1415.535	1432.877	1470.206	1522.646	1543.783	1522.646	1470.206	1432.877	1415.535	1432.877
147.5	1472.851	1489.434	1526.027	1572.372	1591.186	1572.372	1526.027	1489.434	1472.851	1489.434
150.0	1530.926	1540.172	1580.238	1622.420	1636.335	1622.420	1580.238	1540.172	1530.926	1540.172
152.5	1580.997	1592.290	1630.033	1666.603	1680.288	1666.603	1630.033	1592.290	1580.997	1592.290
155.0	1629.918	1643.258	1675.205	1708.141	1718.261	1708.141	1675.205	1643.258	1629.918	1643.258
157.5	1680.771	1692.409	1718.951	1745.470	1754.969	1745.470	1718.951	1692.409	1680.771	1692.409
160.0	1726.081	1734.637	1758.005	1780.154	1787.744	1780.154	1758.005	1734.637	1726.081	1734.637
162.5	1767.573	1773.990	1794.069	1811.181	1816.678	1811.181	1794.069	1773.990	1767.573	1773.990
165.0	1804.971	1808.789	1824.475	1836.665	1840.736	1836.665	1824.475	1808.789	1804.971	1808.789
167.5	1837.125	1839.563	1850.488	1859.918	1862.977	1859.918	1850.488	1839.563	1837.125	1839.563
170.0	1862.540	1865.323	1872.407	1879.399	1880.618	1879.399	1872.407	1865.323	1862.540	1865.323
172.5	1883.355	1886.276	1889.542	1895.798	1894.625	1895.798	1889.542	1886.276	1883.355	1886.276
175.0	1897.086	1899.846	1902.629	1904.837	1904.998	1904.837	1902.629	1899.846	1897.086	1899.846
177.5	1907.068	1908.839	1909.046	1911.530	1910.242	1911.530	1909.046	1908.839	1907.068	1908.839
180.0	1911.323	1911.323	1911.323	1911.323	1911.323	1911.323	1911.323	1911.323	1911.323	1911.323

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	5877.443	5877.443	5877.443	5877.443	5877.443	5877.443	5877.443
2.5	5869.715	5871.693	5873.096	5871.693	5869.715	5868.657	5866.242
5.0	5845.335	5848.555	5851.844	5848.555	5845.335	5847.014	5839.769
7.5	5811.295	5811.939	5814.285	5811.939	5811.295	5811.916	5808.880
10.0	5759.545	5760.350	5757.268	5760.350	5759.545	5761.638	5752.829
12.5	5695.490	5694.938	5695.030	5694.938	5695.490	5695.950	5693.466
15.0	5620.786	5619.061	5614.599	5619.061	5620.786	5620.970	5617.405
17.5	5531.730	5532.305	5528.395	5532.305	5531.730	5533.547	5531.224
20.0	5432.071	5431.312	5427.287	5431.312	5432.071	5436.372	5432.416
22.5	5321.579	5320.705	5314.932	5320.705	5321.579	5325.535	5319.923
25.0	5199.564	5197.379	5195.930	5197.379	5199.564	5202.554	5196.643
27.5	5067.728	5066.003	5063.749	5066.003	5067.728	5071.638	5069.223
30.0	4922.092	4922.414	4916.802	4922.414	4922.092	4929.015	4918.918
32.5	4771.741	4768.521	4763.116	4768.521	4771.741	4775.536	4763.139
35.0	4607.452	4603.197	4598.206	4603.197	4607.452	4614.191	4606.348
37.5	4435.550	4431.778	4424.533	4431.778	4435.550	4440.472	4440.633
40.0	4252.769	4246.030	4240.648	4246.030	4252.769	4259.324	4262.314
42.5	4063.226	4054.785	4052.370	4054.785	4063.226	4069.459	4072.104
45.0	3862.689	3855.651	3850.637	3855.651	3862.689	3869.796	3869.589
47.5	3655.505	3650.146	3644.603	3650.146	3655.505	3665.303	3662.175
50.0	3442.755	3435.671	3431.508	3435.671	3442.755	3454.485	3455.428
52.5	3227.636	3217.217	3211.398	3217.217	3227.636	3238.814	3245.047
55.0	3005.893	2993.657	2991.265	2993.657	3005.893	3018.911	3024.500
57.5	2780.700	2767.843	2763.680	2767.843	2780.700	2791.671	2798.180
60.0	2552.954	2538.280	2531.656	2538.280	2552.954	2563.281	2566.041
62.5	2322.563	2305.083	2299.080	2305.083	2322.563	2334.339	2338.295
65.0	2089.803	2071.472	2064.664	2071.472	2089.803	2102.545	2109.284
67.5	1858.630	1837.332	1829.673	1837.332	1858.630	1870.751	1883.102
70.0	1629.619	1605.331	1597.166	1605.331	1629.619	1640.820	1646.708
72.5	1400.355	1373.859	1363.739	1373.859	1400.355	1411.740	1416.938
75.0	1172.494	1148.206	1139.512	1148.206	1172.494	1187.191	1190.434
77.5	954.316	928.395	922.001	928.395	954.316	966.092	972.808
80.0	737.932	715.185	708.860	715.185	737.932	748.052	759.230

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CANDELA TABULATION - (Cont.)

82.5	531.990	510.071	502.895	510.071	531.990	539.856	545.698
85.0	334.673	316.411	312.041	316.411	334.673	340.170	344.218
87.5	162.541	170.338	181.746	170.338	162.541	158.355	157.596
90.0	160.770	188.048	182.620	188.048	160.770	92.828	26.358
92.5	232.116	308.453	327.819	308.453	232.116	125.626	48.668
95.0	273.355	363.124	392.748	363.124	273.355	159.942	96.945
97.5	315.100	408.687	439.990	408.687	315.100	199.847	149.868
100.0	360.617	455.354	487.600	455.354	360.617	244.467	197.110
102.5	407.928	504.942	541.259	504.942	407.928	293.388	257.991
105.0	457.976	556.439	590.594	556.439	457.976	347.553	311.006
107.5	511.221	608.879	642.896	608.879	511.221	402.017	370.484
110.0	568.353	664.332	698.188	664.332	568.353	463.358	437.805
112.5	623.277	719.026	754.975	719.026	623.277	529.046	498.617
115.0	682.295	779.079	813.786	779.079	682.295	591.836	566.628
117.5	745.637	839.592	872.597	839.592	745.637	657.478	639.239
120.0	813.648	901.462	935.226	901.462	813.648	730.112	701.523
122.5	880.555	965.241	1000.063	965.241	880.555	806.012	768.223
125.0	949.348	1029.135	1061.473	1029.135	949.348	875.748	847.274
127.5	1021.821	1094.018	1125.252	1094.018	1021.821	940.723	919.885
130.0	1095.858	1159.522	1188.893	1159.522	1095.858	1006.181	995.969
132.5	1168.331	1226.061	1255.317	1226.061	1168.331	1077.435	1056.551
135.0	1233.260	1287.655	1316.175	1287.655	1233.260	1151.426	1126.678
137.5	1295.613	1350.468	1377.102	1350.468	1295.613	1226.383	1198.806
140.0	1353.596	1410.475	1434.602	1410.475	1353.596	1299.822	1271.900
142.5	1413.120	1467.653	1489.342	1467.653	1413.120	1368.661	1347.524
145.0	1470.206	1522.646	1543.783	1522.646	1470.206	1432.877	1415.535
147.5	1526.027	1572.372	1591.186	1572.372	1526.027	1489.434	1472.851
150.0	1580.238	1622.420	1636.335	1622.420	1580.238	1540.172	1530.926
152.5	1630.033	1666.603	1680.288	1666.603	1630.033	1592.290	1580.997
155.0	1675.205	1708.141	1718.261	1708.141	1675.205	1643.258	1629.918
157.5	1718.951	1745.470	1754.969	1745.470	1718.951	1692.409	1680.771
160.0	1758.005	1780.154	1787.744	1780.154	1758.005	1734.637	1726.081
162.5	1794.069	1811.181	1816.678	1811.181	1794.069	1773.990	1767.573
165.0	1824.475	1836.665	1840.736	1836.665	1824.475	1808.789	1804.971
167.5	1850.488	1859.918	1862.977	1859.918	1850.488	1839.563	1837.125
170.0	1872.407	1879.399	1880.618	1879.399	1872.407	1865.323	1862.540
172.5	1889.542	1895.798	1894.625	1895.798	1889.542	1886.276	1883.355
175.0	1902.629	1904.837	1904.998	1904.837	1902.629	1899.846	1897.086
177.5	1909.046	1911.530	1910.242	1911.530	1909.046	1908.839	1907.068
180.0	1911.323	1911.323	1911.323	1911.323	1911.323	1911.323	1911.323

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2141.07	N.A.	9.60
0-30	4537.13	N.A.	20.20
0-40	7418.52	N.A.	33.10
0-60	13083.75	N.A.	58.40
0-80	16387.37	N.A.	73.10
0-90	16783.87	N.A.	74.90
10-90	16228.47	N.A.	72.40
20-40	5277.46	N.A.	23.50
20-50	8256.1	N.A.	36.80
40-70	7731.77	N.A.	34.50
60-80	3303.62	N.A.	14.70
70-80	1237.08	N.A.	5.50
80-90	396.49	N.A.	1.80
90-110	759.14	N.A.	3.40
90-120	1440.23	N.A.	6.40
90-130	2292.02	N.A.	10.20
90-150	4158.78	N.A.	18.60
90-180	5625.85	N.A.	25.10
110-180	4866.71	N.A.	21.70
0-180	22409.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	555.39
10-20	1585.68
20-30	2396.06
30-40	2881.4
40-50	2978.64
50-60	2686.58
60-70	2066.55
70-80	1237.08
80-90	396.49
90-100	278.56
100-110	480.58
110-120	681.09
120-130	851.79
130-140	944.31
140-150	922.44
150-160	772.13
160-170	514.32
170-180	180.63

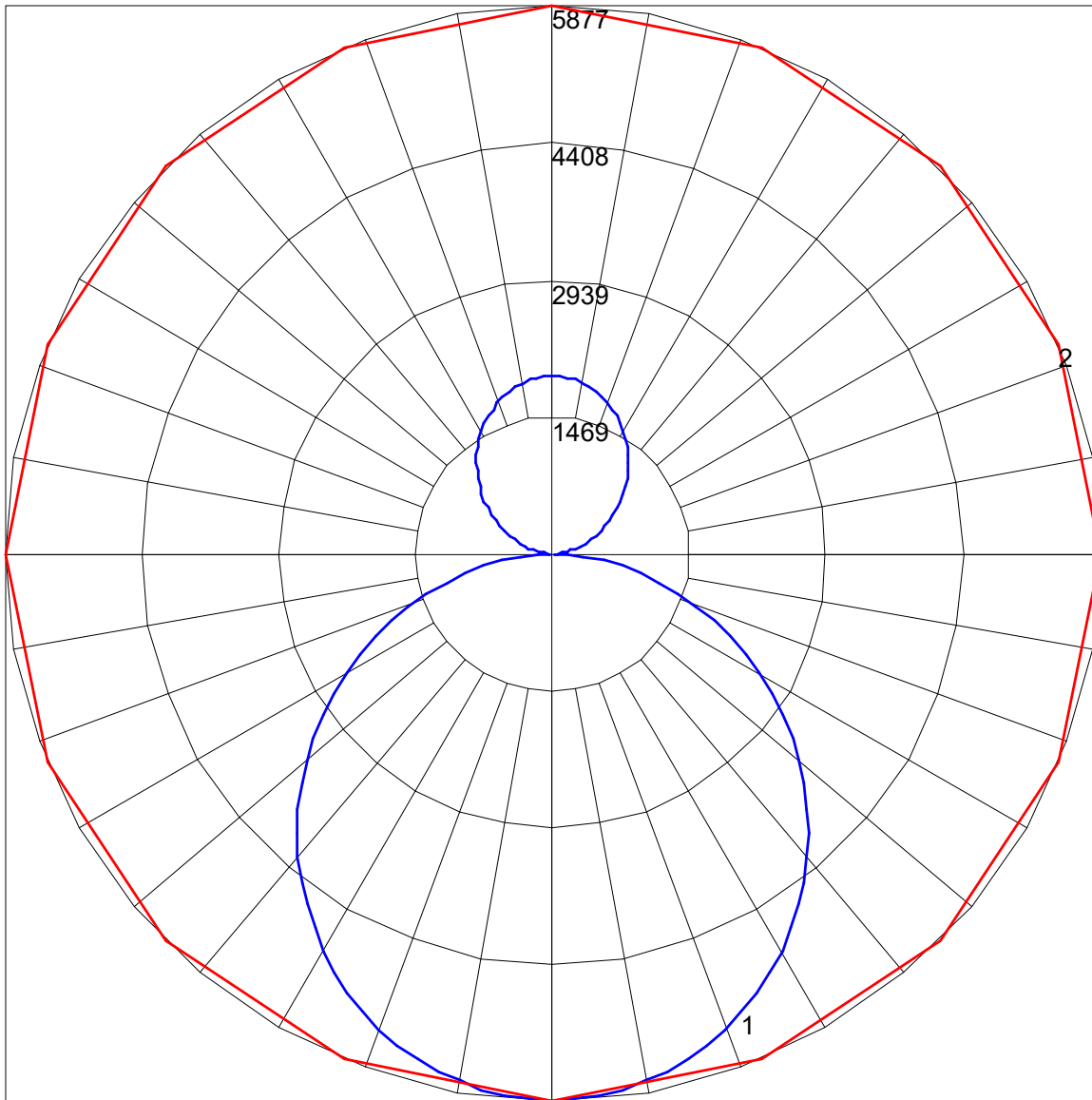
IES INDOOR REPORT
PHOTOMETRIC FILENAME : P3950-LED35-MO-FWA-D9.IES

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 = 5877.443 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.)