



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : OLV-30-LED35-MO-FWA-D9.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] OLV-30-LED35-MO-FWA-D9

[TESTLAB] Intertek

[ISSUE DATE] August 7, 2017

[MANUFAC] Prudential Lighting

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4556
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	68
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	3.08 ft (Diameter)
Luminous Width (90-270)	3.08 ft (Diameter)
Luminous Height	0.58 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1364	1362	1382
55	1213	1202	1221
65	1016	998	1018
75	746	725	745
85	319	321	333

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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>
<b>0.0</b>	1287.278	1287.277	1287.277	1287.277	1287.277	1287.277	1287.277	1287.277	1287.277	1287.277
<b>2.5</b>	1281.382	1283.632	1284.945	1286.295	1286.550	1286.963	1286.993	1286.910	1285.200	1286.910
<b>5.0</b>	1275.862	1278.390	1278.578	1280.872	1281.848	1283.513	1283.318	1284.203	1281.405	1284.203
<b>7.5</b>	1267.020	1267.725	1269.892	1271.678	1274.115	1275.255	1276.650	1277.753	1274.947	1277.753
<b>10.0</b>	1255.088	1255.162	1256.993	1259.925	1262.047	1265.085	1266.360	1267.507	1265.213	1267.507
<b>12.5</b>	1240.110	1240.253	1241.655	1245.668	1247.902	1251.217	1253.858	1256.580	1253.190	1256.580
<b>15.0</b>	1222.388	1221.922	1224.622	1228.695	1231.807	1235.842	1238.985	1240.928	1238.783	1240.928
<b>17.5</b>	1202.963	1202.152	1204.013	1208.737	1212.142	1217.085	1220.438	1223.685	1220.108	1223.685
<b>20.0</b>	1179.668	1178.925	1181.392	1185.540	1189.800	1195.545	1199.737	1203.060	1199.693	1203.060
<b>22.5</b>	1153.440	1153.432	1156.125	1160.783	1164.675	1171.365	1175.640	1180.688	1176.457	1180.688
<b>25.0</b>	1126.425	1125.375	1128.630	1132.223	1137.090	1143.075	1149.450	1152.960	1150.388	1152.960
<b>27.5</b>	1096.463	1096.328	1097.850	1102.447	1107.285	1114.628	1120.065	1125.578	1121.513	1125.578
<b>30.0</b>	1062.188	1063.838	1065.322	1071.188	1076.108	1083.457	1090.320	1095.263	1091.227	1095.263
<b>32.5</b>	1028.565	1029.960	1030.598	1037.070	1042.553	1049.243	1057.132	1063.470	1057.763	1063.470
<b>35.0</b>	995.085	992.347	995.077	999.413	1006.342	1014.000	1021.658	1027.965	1022.212	1027.965
<b>37.5</b>	959.242	953.970	956.490	961.725	968.212	975.720	983.640	990.232	984.690	990.232
<b>40.0</b>	918.210	913.080	914.648	920.175	927.653	936.060	944.018	950.543	945.053	950.543
<b>42.5</b>	875.430	872.393	873.322	878.737	884.685	893.063	901.905	907.837	902.925	907.837
<b>45.0</b>	830.992	830.303	829.957	835.028	842.190	850.553	858.938	865.342	859.065	865.342
<b>47.5</b>	789.158	785.168	784.365	789.930	795.938	805.163	812.992	819.982	813.825	819.982
<b>50.0</b>	745.163	738.503	738.758	742.747	750.278	758.183	767.587	773.617	767.760	773.617
<b>52.5</b>	699.360	691.778	691.582	695.077	702.135	710.903	719.700	725.513	720.615	725.513
<b>55.0</b>	649.222	643.605	643.372	647.288	653.633	662.393	669.638	677.415	670.283	677.415
<b>57.5</b>	598.965	593.753	594.607	598.013	605.610	612.240	620.265	626.962	621.900	626.962
<b>60.0</b>	549.735	545.580	545.040	548.962	554.955	562.620	569.633	575.460	569.692	575.460
<b>62.5</b>	501.712	495.697	495.668	498.668	504.315	510.525	518.258	524.790	519.337	524.790
<b>65.0</b>	452.017	444.150	444.315	447.555	452.925	458.985	466.950	473.370	467.137	473.370
<b>67.5</b>	401.827	394.140	394.072	397.800	403.140	408.345	414.360	420.345	414.975	420.345
<b>70.0</b>	349.822	345.195	343.733	346.470	352.553	356.632	364.058	368.685	362.798	368.685
<b>72.5</b>	301.493	295.298	295.897	297.188	303.113	307.192	312.863	317.303	311.678	317.303
<b>75.0</b>	254.468	247.260	247.373	249.352	254.175	256.935	262.252	267.743	260.017	267.743
<b>77.5</b>	206.640	198.840	200.370	201.683	206.917	209.475	212.843	216.975	209.423	216.975
<b>80.0</b>	159.532	152.805	152.963	154.447	158.430	161.213	164.205	167.648	162.060	167.648
<b>82.5</b>	114.060	108.915	109.418	110.835	114.052	116.430	118.388	120.968	113.715	120.968
<b>85.0</b>	72.517	68.085	73.013	75.420	75.608	73.365	74.002	76.305	70.470	76.305
<b>87.5</b>	34.170	31.238	35.145	37.508	39.075	35.693	34.650	35.708	30.262	35.708
<b>90.0</b>	21.105	16.267	17.918	25.253	15.120	23.325	19.425	19.867	27.840	19.867
<b>92.5</b>	26.032	28.065	32.040	32.430	28.545	29.078	29.047	28.410	30.675	28.410
<b>95.0</b>	32.565	35.483	38.655	38.730	35.242	34.523	34.245	33.945	36.090	33.945
<b>97.5</b>	40.133	43.860	46.350	45.975	43.350	41.587	41.422	41.370	42.975	41.370
<b>100.0</b>	48.465	52.305	54.150	53.910	52.020	49.290	49.050	49.703	51.172	49.703
<b>102.5</b>	57.008	60.585	62.093	62.205	60.750	57.532	57.015	57.810	59.340	57.810
<b>105.0</b>	65.715	69.233	70.500	70.897	70.050	66.345	65.550	66.218	67.763	66.218
<b>107.5</b>	74.978	78.487	79.560	80.220	79.740	75.765	74.707	75.427	76.935	75.427
<b>110.0</b>	84.975	88.395	89.190	90.105	89.760	85.853	84.540	84.825	86.730	84.825
<b>112.5</b>	95.543	98.325	99.330	100.350	100.433	96.270	94.912	95.670	96.930	95.670
<b>115.0</b>	106.313	108.578	109.748	110.767	109.860	106.793	105.420	105.593	107.588	105.593
<b>117.5</b>	116.918	119.235	120.315	121.335	122.610	117.630	116.153	116.153	118.485	116.153
<b>120.0</b>	127.703	130.477	131.040	132.188	133.822	128.768	127.095	127.725	129.450	127.725
<b>122.5</b>	139.252	141.502	142.058	143.317	144.480	140.107	138.232	139.305	140.595	139.305
<b>125.0</b>	150.375	152.782	153.210	154.507	154.192	151.447	149.610	149.813	151.972	149.813
<b>127.5</b>	161.227	163.313	164.325	165.540	166.132	162.570	161.363	160.470	163.530	160.470
<b>130.0</b>	172.410	174.180	175.200	176.347	176.625	173.655	172.005	171.727	174.787	171.727
<b>132.5</b>	183.780	184.882	185.805	187.050	187.500	184.732	182.835	182.280	185.768	182.280

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	194.648	195.803	196.208	197.738	198.968	195.600	193.530	193.140	196.680	193.140
<b>137.5</b>	204.697	206.235	206.445	208.058	210.480	206.107	204.075	204.157	207.398	204.157
<b>140.0</b>	214.958	216.750	216.465	217.980	221.498	216.368	214.252	215.130	217.635	215.130
<b>142.5</b>	225.705	226.808	226.185	227.498	230.602	226.320	223.972	225.330	227.370	225.330
<b>145.0</b>	234.743	235.800	234.863	236.835	238.860	236.002	233.423	234.150	236.760	234.150
<b>147.5</b>	242.813	243.532	243.458	245.625	247.238	244.778	242.685	242.452	245.782	242.452
<b>150.0</b>	250.875	251.760	251.618	253.597	255.375	253.042	251.010	250.523	254.175	250.523
<b>152.5</b>	258.608	259.290	259.230	260.955	262.725	260.355	258.645	258.173	261.555	258.173
<b>155.0</b>	265.845	266.243	266.250	268.043	269.565	267.630	265.808	265.043	268.515	265.043
<b>157.5</b>	272.467	272.752	272.745	274.620	276.217	274.387	272.647	271.522	275.108	271.522
<b>160.0</b>	278.543	278.647	278.715	280.605	282.308	280.447	278.873	277.590	281.025	277.590
<b>162.5</b>	284.017	283.830	283.980	285.885	287.692	285.817	284.303	282.952	286.305	282.952
<b>165.0</b>	288.772	288.285	288.592	290.550	292.418	290.580	288.938	287.640	290.858	287.640
<b>167.5</b>	292.785	292.223	292.553	294.577	296.587	294.630	292.920	291.735	294.780	291.735
<b>170.0</b>	296.272	295.515	295.837	297.990	300.053	298.200	296.363	295.185	297.840	295.185
<b>172.5</b>	299.100	298.147	298.650	300.668	302.745	300.923	299.040	297.923	300.525	297.923
<b>175.0</b>	301.110	299.993	300.585	302.678	304.710	302.910	300.923	299.895	302.212	299.895
<b>177.5</b>	302.483	301.140	301.837	303.983	305.895	303.960	301.875	301.005	303.045	301.005
<b>180.0</b>	303.217	303.217	303.217	303.217	303.217	303.217	303.217	303.217	303.217	303.217

**Vert. Angles**      **Horizontal Angles**

	<u><b>225.0</b></u>	<u><b>247.5</b></u>	<u><b>270.0</b></u>	<u><b>292.5</b></u>	<u><b>315.0</b></u>	<u><b>337.5</b></u>	<u><b>360.0</b></u>
<b>0.0</b>	1287.277	1287.277	1287.277	1287.277	1287.277	1287.277	1287.277
<b>2.5</b>	1286.993	1286.963	1286.550	1286.295	1284.945	1283.632	1281.382
<b>5.0</b>	1283.318	1283.513	1281.848	1280.872	1278.578	1278.390	1275.862
<b>7.5</b>	1276.650	1275.255	1274.115	1271.678	1269.892	1267.725	1267.020
<b>10.0</b>	1266.360	1265.085	1262.047	1259.925	1256.993	1255.162	1255.088
<b>12.5</b>	1253.858	1251.217	1247.902	1245.668	1241.655	1240.253	1240.110
<b>15.0</b>	1238.985	1235.842	1231.807	1228.695	1224.622	1221.922	1222.388
<b>17.5</b>	1220.438	1217.085	1212.142	1208.737	1204.013	1202.152	1202.963
<b>20.0</b>	1199.737	1195.545	1189.800	1185.540	1181.392	1178.925	1179.668
<b>22.5</b>	1175.640	1171.365	1164.675	1160.783	1156.125	1153.432	1153.440
<b>25.0</b>	1149.450	1143.075	1137.090	1132.223	1128.630	1125.375	1126.425
<b>27.5</b>	1120.065	1114.628	1107.285	1102.447	1097.850	1096.328	1096.463
<b>30.0</b>	1090.320	1083.457	1076.108	1071.188	1065.322	1063.838	1062.188
<b>32.5</b>	1057.132	1049.243	1042.553	1037.070	1030.598	1029.960	1028.565
<b>35.0</b>	1021.658	1014.000	1006.342	999.413	995.077	992.347	995.085
<b>37.5</b>	983.640	975.720	968.212	961.725	956.490	953.970	959.242
<b>40.0</b>	944.018	936.060	927.653	920.175	914.648	913.080	918.210
<b>42.5</b>	901.905	893.063	884.685	878.737	873.322	872.393	875.430
<b>45.0</b>	858.938	850.553	842.190	835.028	829.957	830.303	830.992
<b>47.5</b>	812.992	805.163	795.938	789.930	784.365	785.168	789.158
<b>50.0</b>	767.587	758.183	750.278	742.747	738.758	738.503	745.163
<b>52.5</b>	719.700	710.903	702.135	695.077	691.582	691.778	699.360
<b>55.0</b>	669.638	662.393	653.633	647.288	643.372	643.605	649.222
<b>57.5</b>	620.265	612.240	605.610	598.013	594.607	593.753	598.965
<b>60.0</b>	569.633	562.620	554.955	548.962	545.040	545.580	549.735
<b>62.5</b>	518.258	510.525	504.315	498.668	495.668	495.697	501.712
<b>65.0</b>	466.950	458.985	452.925	447.555	444.315	444.150	452.017
<b>67.5</b>	414.360	408.345	403.140	397.800	394.072	394.140	401.827
<b>70.0</b>	364.058	356.632	352.553	346.470	343.733	345.195	349.822
<b>72.5</b>	312.863	307.192	303.113	297.188	295.897	295.298	301.493
<b>75.0</b>	262.252	256.935	254.175	249.352	247.373	247.260	254.468
<b>77.5</b>	212.843	209.475	206.917	201.683	200.370	198.840	206.640
<b>80.0</b>	164.205	161.213	158.430	154.447	152.963	152.805	159.532

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**CANDELA TABULATION - (Cont.)**

82.5	118.388	116.430	114.052	110.835	109.418	108.915	114.060
85.0	74.002	73.365	75.608	75.420	73.013	68.085	72.517
87.5	34.650	35.693	39.075	37.508	35.145	31.238	34.170
90.0	19.425	23.325	15.120	25.253	17.918	16.267	21.105
92.5	29.047	29.078	28.545	32.430	32.040	28.065	26.032
95.0	34.245	34.523	35.242	38.730	38.655	35.483	32.565
97.5	41.422	41.587	43.350	45.975	46.350	43.860	40.133
100.0	49.050	49.290	52.020	53.910	54.150	52.305	48.465
102.5	57.015	57.532	60.750	62.205	62.093	60.585	57.008
105.0	65.550	66.345	70.050	70.897	70.500	69.233	65.715
107.5	74.707	75.765	79.740	80.220	79.560	78.487	74.978
110.0	84.540	85.853	89.760	90.105	89.190	88.395	84.975
112.5	94.912	96.270	100.433	100.350	99.330	98.325	95.543
115.0	105.420	106.793	109.860	110.767	109.748	108.578	106.313
117.5	116.153	117.630	122.610	121.335	120.315	119.235	116.918
120.0	127.095	128.768	133.822	132.188	131.040	130.477	127.703
122.5	138.232	140.107	144.480	143.317	142.058	141.502	139.252
125.0	149.610	151.447	154.192	154.507	153.210	152.782	150.375
127.5	161.363	162.570	166.132	165.540	164.325	163.313	161.227
130.0	172.005	173.655	176.625	176.347	175.200	174.180	172.410
132.5	182.835	184.732	187.500	187.050	185.805	184.882	183.780
135.0	193.530	195.600	198.968	197.738	196.208	195.803	194.648
137.5	204.075	206.107	210.480	208.058	206.445	206.235	204.697
140.0	214.252	216.368	221.498	217.980	216.465	216.750	214.958
142.5	223.972	226.320	230.602	227.498	226.185	226.808	225.705
145.0	233.423	236.002	238.860	236.835	234.863	235.800	234.743
147.5	242.685	244.778	247.238	245.625	243.458	243.532	242.813
150.0	251.010	253.042	255.375	253.597	251.618	251.760	250.875
152.5	258.645	260.355	262.725	260.955	259.230	259.290	258.608
155.0	265.808	267.630	269.565	268.043	266.250	266.243	265.845
157.5	272.647	274.387	276.217	274.620	272.745	272.752	272.467
160.0	278.873	280.447	282.308	280.605	278.715	278.647	278.543
162.5	284.303	285.817	287.692	285.885	283.980	283.830	284.017
165.0	288.938	290.580	292.418	290.550	288.592	288.285	288.772
167.5	292.920	294.630	296.587	294.577	292.553	292.223	292.785
170.0	296.363	298.200	300.053	297.990	295.837	295.515	296.272
172.5	299.040	300.923	302.745	300.668	298.650	298.147	299.100
175.0	300.923	302.910	304.710	302.678	300.585	299.993	301.110
177.5	301.875	303.960	305.895	303.983	301.837	301.140	302.483
180.0	303.217	303.217	303.217	303.217	303.217	303.217	303.217

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	469.18	N.A.	10.30
0-30	993.88	N.A.	21.80
0-40	1624.4	N.A.	35.70
0-60	2862.98	N.A.	62.80
0-80	3584.28	N.A.	78.70
0-90	3669.28	N.A.	80.50
10-90	3547.61	N.A.	77.90
20-40	1155.23	N.A.	25.40
20-50	1806.45	N.A.	39.60
40-70	1690.01	N.A.	37.10
60-80	721.30	N.A.	15.80
70-80	269.87	N.A.	5.90
80-90	84.99	N.A.	1.90
90-110	111.72	N.A.	2.50
90-120	218.94	N.A.	4.80
90-130	355.05	N.A.	7.80
90-150	653.54	N.A.	14.30
90-180	886.94	N.A.	19.50
110-180	775.23	N.A.	17.00
0-180	4556.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	121.67
10-20	347.51
20-30	524.70
30-40	630.52
40-50	651.22
50-60	587.36
60-70	451.43
70-80	269.87
80-90	84.99
90-100	39.26
100-110	72.46
110-120	107.23
120-130	136.11
130-140	151.10
140-150	147.39
150-160	123.04
160-170	81.71
170-180	28.65

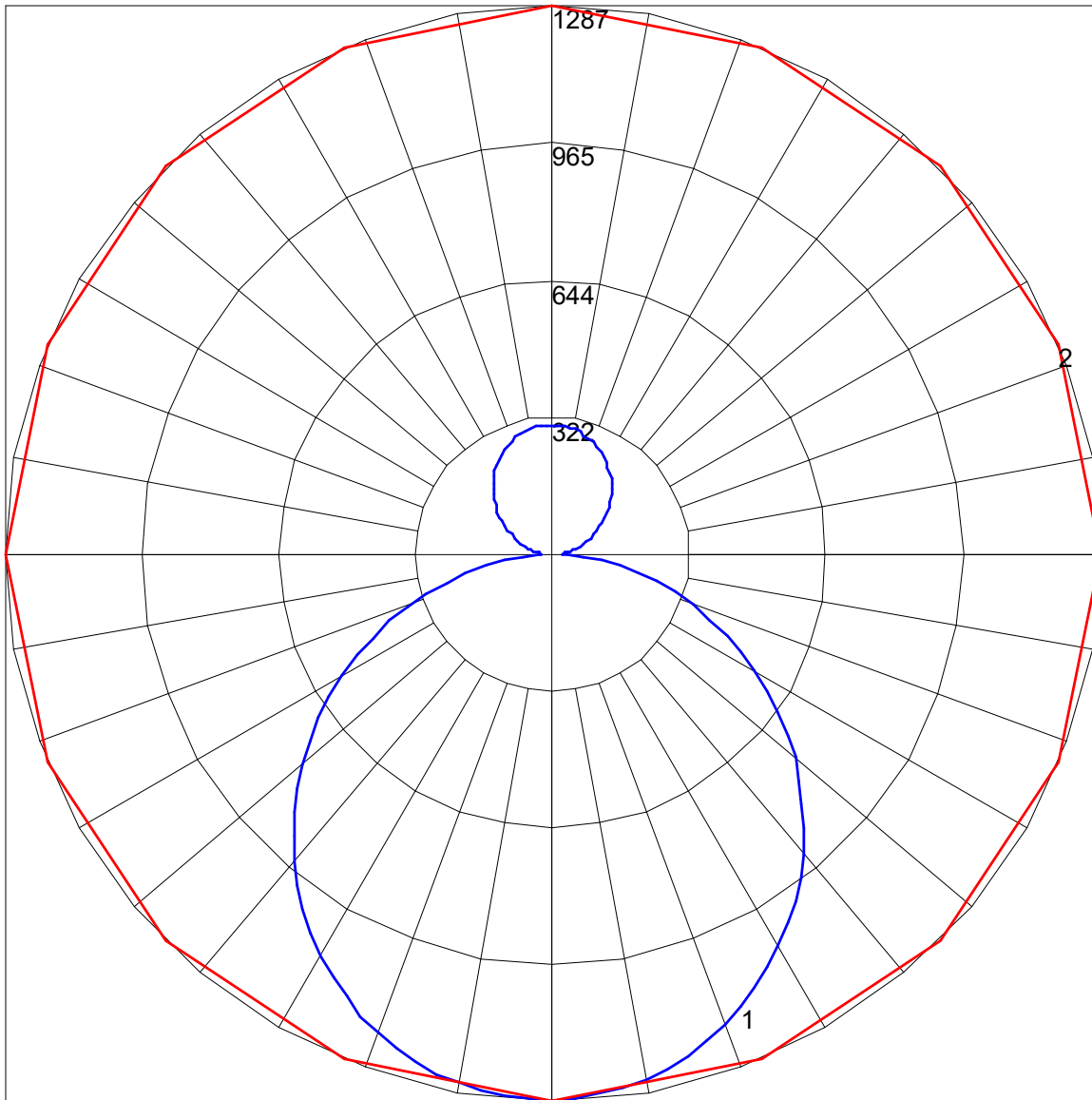
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : OLV-30-LED35-MO-FWA-D9.IES**

**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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	81
1	104	99	95	91	100	95	92	88	88	85	82	80	78	76	74	72	70	67
2	95	87	80	74	90	83	77	72	76	72	67	70	66	63	65	61	59	56
3	86	76	68	62	82	73	66	60	67	61	56	62	57	53	57	53	50	47
4	79	67	59	52	75	65	57	51	60	53	48	55	50	45	51	46	43	40
5	72	60	51	45	69	58	50	44	53	47	41	49	44	39	46	41	37	34
6	67	54	45	39	64	52	44	38	48	41	36	45	39	34	41	36	32	30
7	62	49	40	34	59	47	39	33	44	37	32	41	35	30	38	33	29	27
8	57	44	36	30	55	43	35	30	40	33	28	37	31	27	35	30	26	24
9	54	41	33	27	51	39	32	27	37	30	25	34	28	24	32	27	23	21
10	50	37	30	25	48	36	29	24	34	27	23	32	26	22	30	25	21	19

POLAR GRAPH



Maximum Candela = 1287.278 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.)