

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00678\_2 ~ PR1605LEDLX130L35KEXCD3X.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [LUMCAT] CRT1804171150-001, Model: PR1605LEDLX130L35KEX/CD3X  
 [LUMINAIRE] LED Highbay  
 [LAMP] LED  
 [USER DEFINED] 120.01 VAC, 912.5 mA, 109.12 W, 0.9964 PF  
 [TEST] SP-00678\_2  
 [TESTLAB] Intertek  
 [ISSUEDATE] 04/23/2018  
 [MANUFAC] Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11882
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	103.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.29 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17164	17306	17351
55	22244	22071	21899
65	25832	25854	25784
75	24806	24665	24424
85	7006	7172	7111

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00678\_2 ~ PR1605LEDLX130L35KEXCD3X.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>
<b>0.0</b>	3603.936	3603.936	3603.936	3603.936	3603.936	3603.936	3603.936	3603.936	3603.936	3603.936
<b>2.5</b>	3563.109	3566.643	3565.899	3566.736	3558.924	3566.736	3565.899	3566.643	3563.109	3566.643
<b>5.0</b>	3456.252	3455.787	3455.136	3444.906	3450.393	3444.906	3455.136	3455.787	3456.252	3455.787
<b>7.5</b>	3300.291	3293.316	3293.316	3293.316	3296.757	3293.316	3293.316	3293.316	3300.291	3293.316
<b>10.0</b>	3127.125	3111.129	3110.013	3112.896	3116.709	3112.896	3110.013	3111.129	3127.125	3111.129
<b>12.5</b>	2921.409	2915.643	2913.039	2912.853	2927.175	2912.853	2913.039	2915.643	2921.409	2915.643
<b>15.0</b>	2724.156	2711.601	2712.624	2717.088	2720.064	2717.088	2712.624	2711.601	2724.156	2711.601
<b>17.5</b>	2545.968	2538.714	2539.551	2540.202	2548.572	2540.202	2539.551	2538.714	2545.968	2538.714
<b>20.0</b>	2407.398	2403.771	2401.911	2401.725	2406.189	2401.725	2401.911	2403.771	2407.398	2403.771
<b>22.5</b>	2303.238	2302.029	2301.471	2296.077	2307.516	2296.077	2301.471	2302.029	2303.238	2302.029
<b>25.0</b>	2232.930	2231.907	2239.998	2226.885	2242.509	2226.885	2239.998	2231.907	2232.930	2231.907
<b>27.5</b>	2198.985	2195.730	2211.261	2195.916	2216.841	2195.916	2211.261	2195.730	2198.985	2195.730
<b>30.0</b>	2181.873	2176.572	2190.057	2185.500	2198.799	2185.500	2190.057	2176.572	2181.873	2176.572
<b>32.5</b>	2157.321	2158.344	2165.970	2174.247	2174.154	2174.247	2165.970	2158.344	2157.321	2158.344
<b>35.0</b>	2132.397	2130.537	2136.768	2151.369	2145.324	2151.369	2136.768	2130.537	2132.397	2130.537
<b>37.5</b>	2090.826	2091.849	2098.545	2115.378	2111.844	2115.378	2098.545	2091.849	2090.826	2091.849
<b>40.0</b>	2045.721	2043.117	2060.880	2076.318	2075.760	2076.318	2060.880	2043.117	2045.721	2043.117
<b>42.5</b>	2016.612	2008.614	2033.166	2044.047	2043.117	2044.047	2033.166	2008.614	2016.612	2008.614
<b>45.0</b>	2003.313	1999.872	2019.774	2030.934	2025.075	2030.934	2019.774	1999.872	2003.313	1999.872
<b>47.5</b>	2011.125	2022.843	2027.679	2050.929	2024.610	2050.929	2027.679	2022.843	2011.125	2022.843
<b>50.0</b>	2061.624	2096.127	2081.619	2111.100	2064.507	2111.100	2081.619	2096.127	2061.624	2096.127
<b>52.5</b>	2168.574	2221.212	2174.898	2211.261	2156.019	2211.261	2174.898	2221.212	2168.574	2221.212
<b>55.0</b>	2301.843	2359.317	2283.894	2315.049	2266.131	2315.049	2283.894	2359.317	2301.843	2359.317
<b>57.5</b>	2385.822	2433.531	2371.035	2399.772	2343.507	2399.772	2371.035	2433.531	2385.822	2433.531
<b>60.0</b>	2413.536	2463.756	2407.026	2437.344	2376.057	2437.344	2407.026	2463.756	2413.536	2463.756
<b>62.5</b>	2353.458	2417.163	2349.738	2388.612	2346.669	2388.612	2349.738	2417.163	2353.458	2417.163
<b>65.0</b>	2250.042	2299.983	2251.995	2281.104	2245.857	2281.104	2251.995	2299.983	2250.042	2299.983
<b>67.5</b>	2148.300	2183.454	2147.184	2183.268	2146.254	2183.268	2147.184	2183.454	2148.300	2183.454
<b>70.0</b>	2046.372	2073.342	2048.232	2084.409	2026.098	2084.409	2048.232	2073.342	2046.372	2073.342
<b>72.5</b>	1907.895	1915.800	1919.799	1941.096	1902.315	1941.096	1919.799	1915.800	1907.895	1915.800
<b>75.0</b>	1688.787	1670.745	1679.208	1687.578	1662.840	1687.578	1679.208	1670.745	1688.787	1670.745
<b>77.5</b>	1321.716	1307.580	1326.087	1331.109	1307.394	1331.109	1326.087	1307.580	1321.716	1307.580
<b>80.0</b>	928.419	914.190	927.396	942.834	921.537	942.834	927.396	914.190	928.419	914.190
<b>82.5</b>	562.185	568.044	574.740	585.528	572.787	585.528	574.740	568.044	562.185	568.044
<b>85.0</b>	329.220	336.474	337.032	343.635	334.149	343.635	337.032	336.474	329.220	336.474
<b>87.5</b>	239.196	243.753	242.451	245.706	239.661	245.706	242.451	243.753	239.196	243.753
<b>90.0</b>	214.551	216.132	214.458	216.690	215.016	216.690	214.458	216.132	214.551	216.132
<b>92.5</b>	203.856	204.879	203.391	205.902	204.228	205.902	203.391	204.879	203.856	204.879
<b>95.0</b>	190.371	192.231	190.278	193.254	190.743	193.254	190.278	192.231	190.371	192.231
<b>97.5</b>	173.166	175.305	174.003	176.142	173.259	176.142	174.003	175.305	173.166	175.305
<b>100.0</b>	154.845	156.705	155.217	157.914	154.659	157.914	155.217	156.705	154.845	156.705
<b>102.5</b>	133.641	135.966	134.013	136.989	133.827	136.989	134.013	135.966	133.641	135.966
<b>105.0</b>	112.065	114.297	112.158	115.134	111.414	115.134	112.158	114.297	112.065	114.297
<b>107.5</b>	89.931	92.442	90.675	93.372	89.931	93.372	90.675	92.442	89.931	92.442
<b>110.0</b>	71.052	73.377	71.796	73.842	70.587	73.842	71.796	73.377	71.052	73.377
<b>112.5</b>	54.312	56.730	55.428	57.195	54.498	57.195	55.428	56.730	54.312	56.730
<b>115.0</b>	41.199	42.966	42.036	43.524	41.385	43.524	42.036	42.966	41.199	42.966
<b>117.5</b>	30.411	31.992	30.969	31.992	30.504	31.992	30.969	31.992	30.411	31.992
<b>120.0</b>	21.576	22.227	22.227	22.599	21.855	22.599	22.227	22.227	21.576	22.227
<b>122.5</b>	13.671	14.601	14.322	14.415	14.229	14.415	14.322	14.601	13.671	14.601
<b>125.0</b>	7.347	7.812	7.812	7.626	7.347	7.626	7.812	7.812	7.347	7.812

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00678\_2 ~ PR1605LEDLX130L35KEXCD3X.IES**

**CANDELA TABULATION - (Cont.)**

127.5	1.767	2.232	2.604	2.325	2.139	2.325	2.604	2.232	1.767	2.232
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. 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	3603.936	3603.936	3603.936	3603.936	3603.936	3603.936	3603.936
2.5	3565.899	3566.736	3558.924	3566.736	3565.899	3566.643	3563.109
5.0	3455.136	3444.906	3450.393	3444.906	3455.136	3455.787	3456.252
7.5	3293.316	3293.316	3296.757	3293.316	3293.316	3293.316	3300.291
10.0	3110.013	3112.896	3116.709	3112.896	3110.013	3111.129	3127.125
12.5	2913.039	2912.853	2927.175	2912.853	2913.039	2915.643	2921.409
15.0	2712.624	2717.088	2720.064	2717.088	2712.624	2711.601	2724.156
17.5	2539.551	2540.202	2548.572	2540.202	2539.551	2538.714	2545.968
20.0	2401.911	2401.725	2406.189	2401.725	2401.911	2403.771	2407.398
22.5	2301.471	2296.077	2307.516	2296.077	2301.471	2302.029	2303.238
25.0	2239.998	2226.885	2242.509	2226.885	2239.998	2231.907	2232.930
27.5	2211.261	2195.916	2216.841	2195.916	2211.261	2195.730	2198.985
30.0	2190.057	2185.500	2198.799	2185.500	2190.057	2176.572	2181.873
32.5	2165.970	2174.247	2174.154	2174.247	2165.970	2158.344	2157.321
35.0	2136.768	2151.369	2145.324	2151.369	2136.768	2130.537	2132.397
37.5	2098.545	2115.378	2111.844	2115.378	2098.545	2091.849	2090.826
40.0	2060.880	2076.318	2075.760	2076.318	2060.880	2043.117	2045.721
42.5	2033.166	2044.047	2043.117	2044.047	2033.166	2008.614	2016.612
45.0	2019.774	2030.934	2025.075	2030.934	2019.774	1999.872	2003.313
47.5	2027.679	2050.929	2024.610	2050.929	2027.679	2022.843	2011.125
50.0	2081.619	2111.100	2064.507	2111.100	2081.619	2096.127	2061.624
52.5	2174.898	2211.261	2156.019	2211.261	2174.898	2221.212	2168.574
55.0	2283.894	2315.049	2266.131	2315.049	2283.894	2359.317	2301.843
57.5	2371.035	2399.772	2343.507	2399.772	2371.035	2433.531	2385.822
60.0	2407.026	2437.344	2376.057	2437.344	2407.026	2463.756	2413.536
62.5	2349.738	2388.612	2346.669	2388.612	2349.738	2417.163	2353.458
65.0	2251.995	2281.104	2245.857	2281.104	2251.995	2299.983	2250.042

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00678\_2 ~ PR1605LEDLX130L35KEXCD3X.IES**

**CANDELA TABULATION - (Cont.)**

67.5	2147.184	2183.268	2146.254	2183.268	2147.184	2183.454	2148.300
70.0	2048.232	2084.409	2026.098	2084.409	2048.232	2073.342	2046.372
72.5	1919.799	1941.096	1902.315	1941.096	1919.799	1915.800	1907.895
75.0	1679.208	1687.578	1662.840	1687.578	1679.208	1670.745	1688.787
77.5	1326.087	1331.109	1307.394	1331.109	1326.087	1307.580	1321.716
80.0	927.396	942.834	921.537	942.834	927.396	914.190	928.419
82.5	574.740	585.528	572.787	585.528	574.740	568.044	562.185
85.0	337.032	343.635	334.149	343.635	337.032	336.474	329.220
87.5	242.451	245.706	239.661	245.706	242.451	243.753	239.196
90.0	214.458	216.690	215.016	216.690	214.458	216.132	214.551
92.5	203.391	205.902	204.228	205.902	203.391	204.879	203.856
95.0	190.278	193.254	190.743	193.254	190.278	192.231	190.371
97.5	174.003	176.142	173.259	176.142	174.003	175.305	173.166
100.0	155.217	157.914	154.659	157.914	155.217	156.705	154.845
102.5	134.013	136.989	133.827	136.989	134.013	135.966	133.641
105.0	112.158	115.134	111.414	115.134	112.158	114.297	112.065
107.5	90.675	93.372	89.931	93.372	90.675	92.442	89.931
110.0	71.796	73.842	70.587	73.842	71.796	73.377	71.052
112.5	55.428	57.195	54.498	57.195	55.428	56.730	54.312
115.0	42.036	43.524	41.385	43.524	42.036	42.966	41.199
117.5	30.969	31.992	30.504	31.992	30.969	31.992	30.411
120.0	22.227	22.599	21.855	22.599	22.227	22.227	21.576
122.5	14.322	14.415	14.229	14.415	14.322	14.601	13.671
125.0	7.812	7.626	7.347	7.626	7.812	7.812	7.347
127.5	2.604	2.325	2.139	2.325	2.604	2.232	1.767
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00678\_2 ~ PR1605LEDLX130L35KEXCD3X.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1082.91	N.A.	9.10
0-30	2125.29	N.A.	17.90
0-40	3463.41	N.A.	29.10
0-60	7097.17	N.A.	59.70
0-80	11033.33	N.A.	92.90
0-90	11503.01	N.A.	96.80
10-90	11184.36	N.A.	94.10
20-40	2380.49	N.A.	20.00
20-50	3958.42	N.A.	33.30
40-70	5878.38	N.A.	49.50
60-80	3936.16	N.A.	33.10
70-80	1691.54	N.A.	14.20
80-90	469.67	N.A.	4.00
90-110	326.97	N.A.	2.80
90-120	371.23	N.A.	3.10
90-130	379.35	N.A.	3.20
90-150	379.35	N.A.	3.20
90-180	379.35	N.A.	3.20
110-180	52.38	N.A.	0.40
0-180	11882.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	318.65
10-20	764.27
20-30	1042.38
30-40	1338.11
40-50	1577.92
50-60	2055.84
60-70	2244.62
70-80	1691.54
80-90	469.67
90-100	206.46
100-110	120.51
110-120	44.25
120-130	8.12
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**

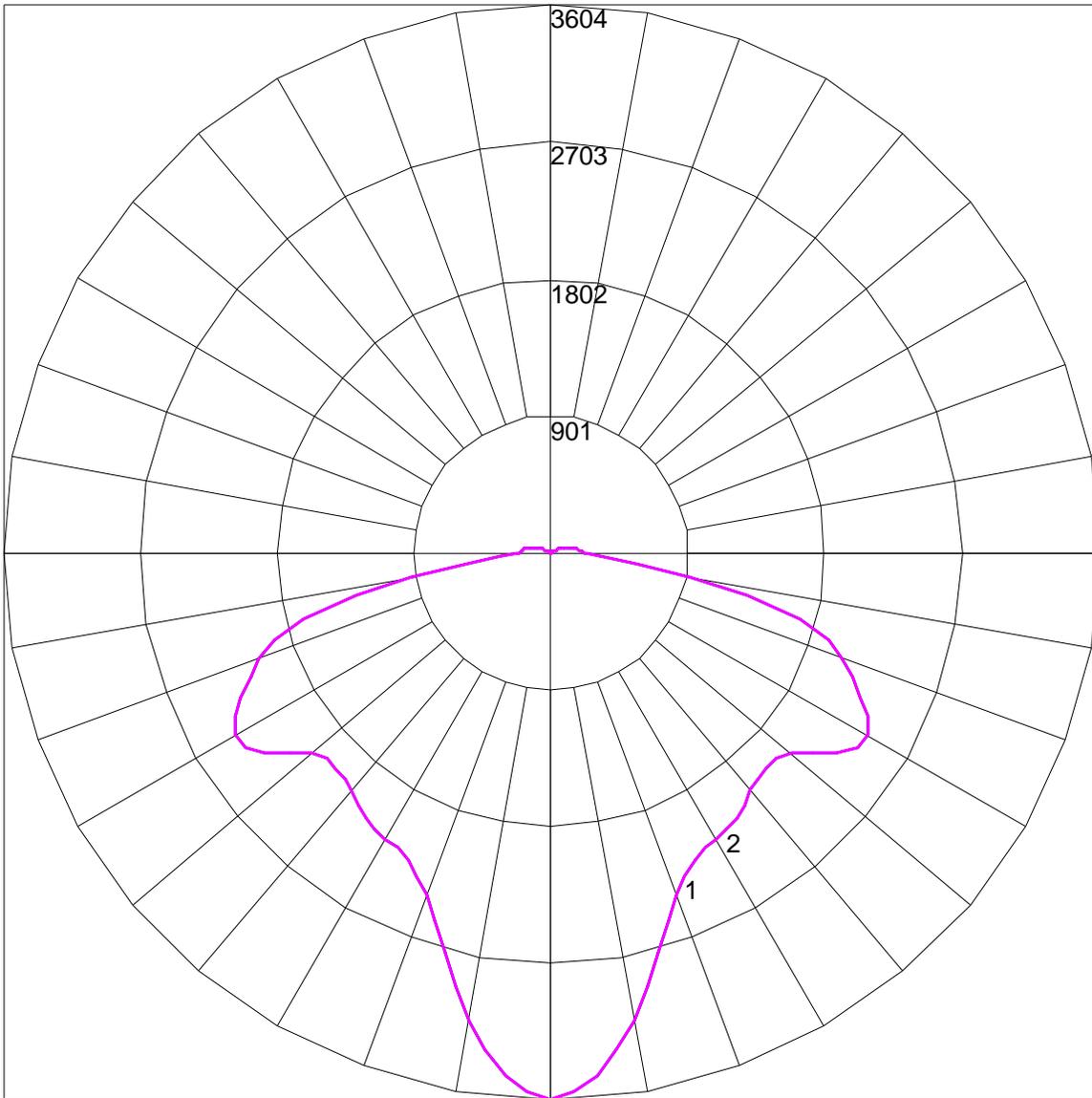
**PHOTOMETRIC FILENAME : SP-00678\_2 ~ PR1605LEDLX130L35KEXCD3X.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	105	99	94	89	102	96	91	87	91	87	84	87	83	80	83	80	77	75
2	93	83	75	68	90	81	73	67	77	70	65	73	67	63	69	65	61	58
3	84	71	62	54	81	69	60	53	66	58	52	62	56	50	59	54	49	46
4	76	62	52	44	73	60	51	43	57	49	42	54	47	41	52	46	40	38
5	69	54	44	37	67	53	44	36	50	42	36	48	41	35	46	39	34	32
6	63	49	39	31	61	47	38	31	45	37	31	43	36	30	41	35	29	27
7	59	44	34	27	56	43	34	27	41	33	27	39	32	26	37	31	26	23
8	54	40	30	24	53	39	30	24	37	29	23	36	28	23	34	28	23	21
9	51	36	27	21	49	36	27	21	34	26	21	33	26	21	31	25	20	18
10	48	33	25	19	46	33	25	19	32	24	19	30	24	19	29	23	18	17

POLAR GRAPH



Maximum Candela = 3603.936 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)