



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BHEX-PRO-LED35-MO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] BHEX-LED35-MO  
 [TESTLAB] INTERTEK  
 [ISSUEDATE] 8-13-18  
 [MANUFAC] PRUDENTIAL  
 [\_TOTALLUMINAIRELUMENS] 9795.2

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9992
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	78
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.10 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.15 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	72470	46667	41794
55	72578	41113	35982
65	74310	35578	30448
75	79633	29226	24495
85	106489	22196	18098

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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>	2660.568	2660.568	2660.568	2660.568	2660.568	2660.568	2660.568	2660.568	2660.568	2660.568
<b>2.5</b>	2656.488	2658.120	2655.876	2655.366	2657.100	2656.080	2659.650	2660.160	2658.018	2660.160
<b>5.0</b>	2646.798	2648.022	2648.736	2653.428	2655.366	2653.836	2654.448	2654.550	2653.530	2654.550
<b>7.5</b>	2634.048	2634.558	2640.576	2642.004	2640.678	2644.452	2647.206	2643.432	2639.862	2643.432
<b>10.0</b>	2615.586	2616.606	2620.686	2615.076	2617.014	2617.320	2628.948	2627.622	2621.706	2627.622
<b>12.5</b>	2587.536	2591.412	2584.578	2587.128	2587.842	2591.616	2596.410	2605.080	2597.634	2605.080
<b>15.0</b>	2550.714	2558.058	2547.246	2551.020	2553.264	2557.650	2563.566	2574.786	2566.422	2574.786
<b>17.5</b>	2507.364	2515.422	2505.426	2508.078	2518.074	2517.972	2523.990	2535.516	2527.050	2535.516
<b>20.0</b>	2457.384	2462.790	2457.690	2462.688	2468.808	2472.684	2479.926	2487.270	2481.558	2487.270
<b>22.5</b>	2404.038	2405.160	2406.282	2406.384	2426.988	2419.950	2427.396	2432.802	2429.130	2432.802
<b>25.0</b>	2341.716	2346.714	2349.774	2354.772	2360.688	2370.582	2373.336	2375.988	2372.010	2375.988
<b>27.5</b>	2279.802	2284.902	2285.616	2281.944	2297.040	2299.284	2305.506	2314.890	2308.770	2314.890
<b>30.0</b>	2214.726	2217.888	2222.988	2214.828	2232.576	2232.576	2245.224	2252.160	2242.368	2252.160
<b>32.5</b>	2144.550	2151.690	2153.730	2147.304	2163.318	2162.604	2173.824	2186.064	2173.722	2186.064
<b>35.0</b>	2073.966	2081.208	2081.106	2076.108	2095.080	2092.734	2102.730	2115.786	2103.648	2115.786
<b>37.5</b>	2002.464	2011.440	2008.992	2001.036	2026.638	2020.824	2030.514	2048.160	2031.942	2048.160
<b>40.0</b>	1930.860	1941.672	1937.388	1928.310	1951.158	1945.446	1962.378	1981.146	1959.318	1981.146
<b>42.5</b>	1858.134	1871.496	1865.886	1854.972	1879.350	1870.782	1889.652	1909.236	1886.592	1909.236
<b>45.0</b>	1786.938	1799.586	1794.690	1782.756	1807.032	1797.852	1817.538	1837.122	1814.682	1837.122
<b>47.5</b>	1714.110	1729.716	1722.678	1707.888	1734.510	1723.902	1745.424	1770.618	1743.282	1770.618
<b>50.0</b>	1641.384	1658.214	1649.340	1635.978	1662.396	1650.972	1671.270	1698.198	1672.698	1698.198
<b>52.5</b>	1568.352	1584.060	1574.982	1560.396	1588.344	1576.308	1597.626	1626.390	1597.728	1626.390
<b>55.0</b>	1491.954	1510.110	1502.358	1486.344	1514.088	1501.746	1525.614	1553.868	1523.778	1553.868
<b>57.5</b>	1416.372	1434.630	1427.184	1411.170	1439.220	1425.246	1451.154	1479.204	1450.644	1479.204
<b>60.0</b>	1337.118	1357.722	1350.174	1334.568	1362.720	1349.868	1375.062	1404.438	1376.898	1404.438
<b>62.5</b>	1257.864	1279.284	1271.328	1257.354	1284.588	1272.654	1299.276	1327.734	1300.908	1327.734
<b>65.0</b>	1176.366	1198.806	1192.482	1178.916	1207.068	1194.318	1220.328	1248.786	1222.470	1248.786
<b>67.5</b>	1095.786	1115.676	1111.800	1098.336	1128.222	1114.758	1141.380	1168.512	1140.462	1168.512
<b>70.0</b>	1014.186	1032.852	1029.690	1018.776	1044.786	1033.770	1058.760	1086.504	1061.514	1086.504
<b>72.5</b>	929.526	947.580	945.948	937.992	962.982	952.680	976.140	1002.864	979.506	1002.864
<b>75.0</b>	845.988	864.042	861.390	857.004	881.892	870.978	893.724	918.510	898.518	918.510
<b>77.5</b>	765.408	779.790	781.014	776.016	802.944	790.194	812.838	836.706	817.020	836.706
<b>80.0</b>	687.276	697.884	699.924	698.802	722.568	712.572	731.850	754.596	736.746	754.596
<b>82.5</b>	609.246	618.936	620.976	623.628	642.090	636.990	652.290	674.220	658.614	674.220
<b>85.0</b>	542.436	541.518	544.578	555.084	565.896	563.958	578.952	597.108	586.398	597.108
<b>87.5</b>	401.472	402.492	435.234	449.106	480.114	489.498	506.736	522.036	517.344	522.036
<b>90.0</b>	256.632	264.384	268.974	274.686	301.512	308.754	323.442	337.416	322.014	337.416
<b>92.5</b>	276.828	290.190	267.852	263.772	266.016	252.654	254.286	257.448	250.716	257.448
<b>95.0</b>	280.908	297.636	324.972	304.368	288.456	308.448	296.310	307.530	304.470	307.530
<b>97.5</b>	254.796	260.508	281.928	288.966	275.298	269.382	294.780	271.116	265.302	271.116
<b>100.0</b>	265.302	258.162	243.168	264.078	262.038	242.046	250.614	259.284	252.348	259.284
<b>102.5</b>	269.382	259.794	241.128	248.574	256.734	246.024	237.864	260.406	268.770	260.406
<b>105.0</b>	250.716	257.754	248.166	239.088	257.958	243.372	245.820	257.652	262.650	257.652
<b>107.5</b>	240.108	246.432	248.982	244.086	257.550	244.596	250.920	250.308	248.472	250.308
<b>110.0</b>	223.074	230.520	236.538	243.576	246.738	241.434	247.860	239.496	232.764	239.496
<b>112.5</b>	201.756	208.182	224.196	227.256	225.318	229.500	230.724	216.648	201.858	216.648
<b>115.0</b>	178.398	195.024	208.692	205.530	214.608	214.200	205.836	202.164	184.518	202.164
<b>117.5</b>	161.364	184.824	193.698	189.414	202.572	198.288	190.842	191.250	171.462	191.250
<b>120.0</b>	146.982	173.604	180.030	178.704	192.270	183.396	180.948	177.888	159.732	177.888
<b>122.5</b>	138.006	163.812	167.382	170.748	181.764	170.544	171.564	167.586	150.246	167.586
<b>125.0</b>	131.988	156.060	158.202	161.568	171.972	159.120	162.894	158.712	142.290	158.712
<b>127.5</b>	126.684	146.574	149.532	154.632	162.486	150.552	153.306	149.634	135.048	149.634
<b>130.0</b>	131.988	140.658	146.166	149.328	156.162	149.532	147.390	144.840	134.844	144.840
<b>132.5</b>	131.376	145.962	146.370	153.918	163.404	151.878	147.288	148.002	140.046	148.002

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	125.052	147.186	140.964	151.062	162.996	145.962	147.186	147.186	136.068	147.186
<b>137.5</b>	120.972	138.618	134.232	146.778	153.918	139.026	146.370	141.780	132.090	141.780
<b>140.0</b>	116.484	129.234	128.418	141.270	144.432	131.784	143.106	133.620	130.050	133.620
<b>142.5</b>	112.200	119.850	120.972	134.028	135.558	126.378	134.538	124.746	123.726	124.746
<b>145.0</b>	106.488	112.710	113.220	124.848	125.256	118.626	125.358	116.892	115.668	116.892
<b>147.5</b>	102.306	103.938	105.468	115.260	115.770	111.180	115.668	108.222	106.692	108.222
<b>150.0</b>	94.860	94.656	98.226	104.652	105.366	103.122	106.386	99.756	99.348	99.756
<b>152.5</b>	86.088	85.782	88.536	96.084	95.472	95.676	97.104	90.984	91.086	90.984
<b>155.0</b>	77.418	77.112	79.968	85.578	84.456	87.210	88.026	82.110	81.498	82.110
<b>157.5</b>	68.544	68.034	71.502	76.296	75.276	78.846	78.234	74.256	71.910	74.256
<b>160.0</b>	60.486	59.772	63.342	67.014	66.504	70.176	68.340	66.300	63.852	66.300
<b>162.5</b>	51.408	50.796	53.958	57.528	57.630	60.588	59.364	56.814	57.426	56.814
<b>165.0</b>	43.248	42.228	45.696	48.858	48.654	50.592	50.286	48.450	46.614	48.450
<b>167.5</b>	36.720	34.374	38.760	40.188	39.984	42.432	41.820	40.698	39.984	40.698
<b>170.0</b>	30.294	28.356	30.906	32.028	31.824	35.394	33.456	33.354	33.762	33.354
<b>172.5</b>	23.766	21.828	23.766	26.010	24.990	27.846	28.866	26.928	24.582	26.928
<b>175.0</b>	18.360	18.156	19.482	20.400	20.094	21.318	21.114	21.828	22.236	21.828
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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>	2660.568	2660.568	2660.568	2660.568	2660.568	2660.568	2660.568
<b>2.5</b>	2659.650	2656.080	2657.100	2655.366	2655.876	2658.120	2656.488
<b>5.0</b>	2654.448	2653.836	2655.366	2653.428	2648.736	2648.022	2646.798
<b>7.5</b>	2647.206	2644.452	2640.678	2642.004	2640.576	2634.558	2634.048
<b>10.0</b>	2628.948	2617.320	2617.014	2615.076	2620.686	2616.606	2615.586
<b>12.5</b>	2596.410	2591.616	2587.842	2587.128	2584.578	2591.412	2587.536
<b>15.0</b>	2563.566	2557.650	2553.264	2551.020	2547.246	2558.058	2550.714
<b>17.5</b>	2523.990	2517.972	2518.074	2508.078	2505.426	2515.422	2507.364
<b>20.0</b>	2479.926	2472.684	2468.808	2462.688	2457.690	2462.790	2457.384
<b>22.5</b>	2427.396	2419.950	2426.988	2406.384	2406.282	2405.160	2404.038
<b>25.0</b>	2373.336	2370.582	2360.688	2354.772	2349.774	2346.714	2341.716
<b>27.5</b>	2305.506	2299.284	2297.040	2281.944	2285.616	2284.902	2279.802
<b>30.0</b>	2245.224	2232.576	2232.576	2214.828	2222.988	2217.888	2214.726
<b>32.5</b>	2173.824	2162.604	2163.318	2147.304	2153.730	2151.690	2144.550
<b>35.0</b>	2102.730	2092.734	2095.080	2076.108	2081.106	2081.208	2073.966
<b>37.5</b>	2030.514	2020.824	2026.638	2001.036	2008.992	2011.440	2002.464
<b>40.0</b>	1962.378	1945.446	1951.158	1928.310	1937.388	1941.672	1930.860
<b>42.5</b>	1889.652	1870.782	1879.350	1854.972	1865.886	1871.496	1858.134
<b>45.0</b>	1817.538	1797.852	1807.032	1782.756	1794.690	1799.586	1786.938
<b>47.5</b>	1745.424	1723.902	1734.510	1707.888	1722.678	1729.716	1714.110
<b>50.0</b>	1671.270	1650.972	1662.396	1635.978	1649.340	1658.214	1641.384
<b>52.5</b>	1597.626	1576.308	1588.344	1560.396	1574.982	1584.060	1568.352
<b>55.0</b>	1525.614	1501.746	1514.088	1486.344	1502.358	1510.110	1491.954
<b>57.5</b>	1451.154	1425.246	1439.220	1411.170	1427.184	1434.630	1416.372
<b>60.0</b>	1375.062	1349.868	1362.720	1334.568	1350.174	1357.722	1337.118
<b>62.5</b>	1299.276	1272.654	1284.588	1257.354	1271.328	1279.284	1257.864
<b>65.0</b>	1220.328	1194.318	1207.068	1178.916	1192.482	1198.806	1176.366
<b>67.5</b>	1141.380	1114.758	1128.222	1098.336	1111.800	1115.676	1095.786
<b>70.0</b>	1058.760	1033.770	1044.786	1018.776	1029.690	1032.852	1014.186
<b>72.5</b>	976.140	952.680	962.982	937.992	945.948	947.580	929.526
<b>75.0</b>	893.724	870.978	881.892	857.004	861.390	864.042	845.988
<b>77.5</b>	812.838	790.194	802.944	776.016	781.014	779.790	765.408
<b>80.0</b>	731.850	712.572	722.568	698.802	699.924	697.884	687.276

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**CANDELA TABULATION - (Cont.)**

82.5	652.290	636.990	642.090	623.628	620.976	618.936	609.246
85.0	578.952	563.958	565.896	555.084	544.578	541.518	542.436
87.5	506.736	489.498	480.114	449.106	435.234	402.492	401.472
90.0	323.442	308.754	301.512	274.686	268.974	264.384	256.632
92.5	254.286	252.654	266.016	263.772	267.852	290.190	276.828
95.0	296.310	308.448	288.456	304.368	324.972	297.636	280.908
97.5	294.780	269.382	275.298	288.966	281.928	260.508	254.796
100.0	250.614	242.046	262.038	264.078	243.168	258.162	265.302
102.5	237.864	246.024	256.734	248.574	241.128	259.794	269.382
105.0	245.820	243.372	257.958	239.088	248.166	257.754	250.716
107.5	250.920	244.596	257.550	244.086	248.982	246.432	240.108
110.0	247.860	241.434	246.738	243.576	236.538	230.520	223.074
112.5	230.724	229.500	225.318	227.256	224.196	208.182	201.756
115.0	205.836	214.200	214.608	205.530	208.692	195.024	178.398
117.5	190.842	198.288	202.572	189.414	193.698	184.824	161.364
120.0	180.948	183.396	192.270	178.704	180.030	173.604	146.982
122.5	171.564	170.544	181.764	170.748	167.382	163.812	138.006
125.0	162.894	159.120	171.972	161.568	158.202	156.060	131.988
127.5	153.306	150.552	162.486	154.632	149.532	146.574	126.684
130.0	147.390	149.532	156.162	149.328	146.166	140.658	131.988
132.5	147.288	151.878	163.404	153.918	146.370	145.962	131.376
135.0	147.186	145.962	162.996	151.062	140.964	147.186	125.052
137.5	146.370	139.026	153.918	146.778	134.232	138.618	120.972
140.0	143.106	131.784	144.432	141.270	128.418	129.234	116.484
142.5	134.538	126.378	135.558	134.028	120.972	119.850	112.200
145.0	125.358	118.626	125.256	124.848	113.220	112.710	106.488
147.5	115.668	111.180	115.770	115.260	105.468	103.938	102.306
150.0	106.386	103.122	105.366	104.652	98.226	94.656	94.860
152.5	97.104	95.676	95.472	96.084	88.536	85.782	86.088
155.0	88.026	87.210	84.456	85.578	79.968	77.112	77.418
157.5	78.234	78.846	75.276	76.296	71.502	68.034	68.544
160.0	68.340	70.176	66.504	67.014	63.342	59.772	60.486
162.5	59.364	60.588	57.630	57.528	53.958	50.796	51.408
165.0	50.286	50.592	48.654	48.858	45.696	42.228	43.248
167.5	41.820	42.432	39.984	40.188	38.760	34.374	36.720
170.0	33.456	35.394	31.824	32.028	30.906	28.356	30.294
172.5	28.866	27.846	24.990	26.010	23.766	21.828	23.766
175.0	21.114	21.318	20.094	20.400	19.482	18.156	18.360
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**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	973.80	N.A.	9.70
0-30	2061.13	N.A.	20.60
0-40	3371.31	N.A.	33.70
0-60	6119.85	N.A.	61.20
0-80	8240.86	N.A.	82.50
0-90	8833.92	N.A.	88.40
10-90	8581.72	N.A.	85.90
20-40	2397.51	N.A.	24.00
20-50	3792.16	N.A.	38.00
40-70	3941.57	N.A.	39.40
60-80	2121.00	N.A.	21.20
70-80	927.97	N.A.	9.30
80-90	593.07	N.A.	5.90
90-110	569.08	N.A.	5.70
90-120	773.44	N.A.	7.70
90-130	916.56	N.A.	9.20
90-150	1103.07	N.A.	11.00
90-180	1158.22	N.A.	11.60
110-180	589.14	N.A.	5.90
0-180	9992.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	252.20
10-20	721.61
20-30	1087.33
30-40	1310.18
40-50	1394.65
50-60	1353.89
60-70	1193.03
70-80	927.97
80-90	593.07
90-100	304.90
100-110	264.18
110-120	204.36
120-130	143.12
130-140	111.81
140-150	74.70
150-160	38.98
160-170	14.11
170-180	2.07

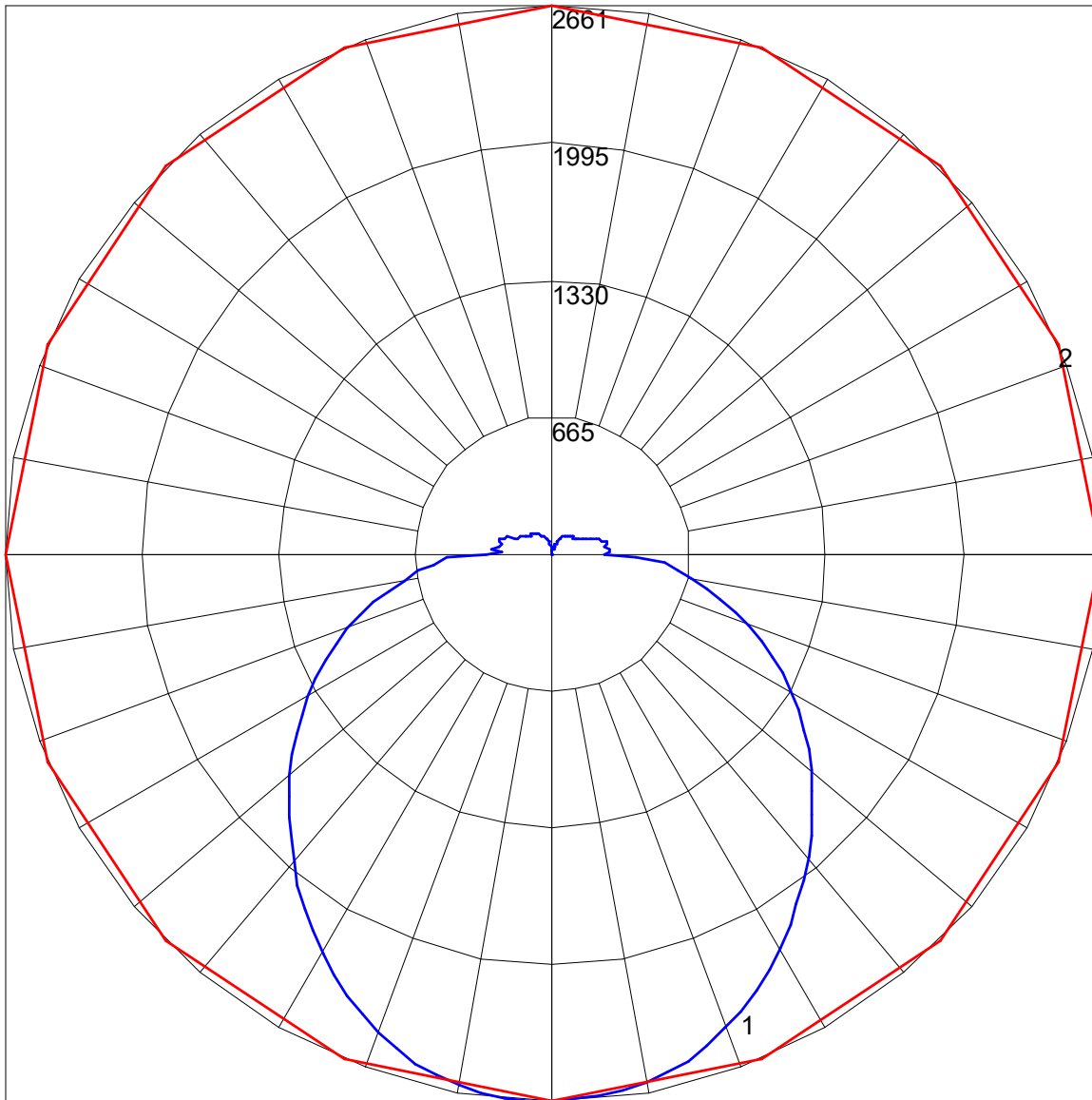
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BHEX-PRO-LED35-MO.IES**

**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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	104	98	93	88	100	95	90	86	88	84	81	82	79	76	77	74	72	69
2	94	84	77	70	90	81	74	69	76	70	65	71	66	62	66	62	59	56
3	85	73	65	57	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	77	65	55	48	74	62	54	47	58	51	45	55	48	43	51	46	42	39
5	71	57	48	41	68	56	47	40	52	45	39	49	42	37	46	40	36	33
6	65	52	42	36	63	50	41	35	47	39	34	44	38	33	41	36	31	29
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	25
8	56	42	34	28	54	41	33	27	39	32	26	37	30	26	35	29	25	23
9	53	39	30	25	50	38	30	24	36	29	24	34	28	23	32	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 2660.568 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.)