



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTRI-PRO-44-LED35-MO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] BTRI-44-LED35-MO  
 [TESTLAB] INTERTEK  
 [ISSUE DATE] 8-9-18  
 [MANUFAC] PRUDENTIAL  
 [\_TOTALLUMINAIRELUMENS] 7777.6

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9879
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	78
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 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	37086	23545	20116
55	37498	21139	17316
65	39214	18633	14579
75	43439	15659	11650
85	61459	11696	8071

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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>	2630.932	2630.932	2630.932	2630.932	2630.932	2630.932	2630.932	2630.932	2630.932	2630.932
<b>2.5</b>	2635.631	2621.788	2629.789	2635.123	2626.487	2632.710	2625.852	2620.645	2634.107	2620.645
<b>5.0</b>	2627.503	2617.724	2632.075	2634.996	2624.201	2625.344	2617.978	2617.470	2634.361	2617.470
<b>7.5</b>	2618.359	2607.945	2621.534	2629.916	2615.184	2611.247	2605.405	2608.580	2623.185	2608.580
<b>10.0</b>	2603.500	2587.117	2606.675	2614.803	2597.531	2592.197	2584.831	2589.911	2604.516	2589.911
<b>12.5</b>	2578.989	2559.431	2583.307	2591.435	2569.972	2566.416	2557.907	2561.590	2579.624	2561.590
<b>15.0</b>	2546.223	2526.411	2548.763	2556.764	2535.301	2532.634	2523.363	2529.332	2546.858	2529.332
<b>17.5</b>	2505.837	2482.977	2508.377	2516.505	2491.740	2491.613	2483.358	2486.152	2506.091	2486.152
<b>20.0</b>	2460.879	2434.590	2460.117	2468.880	2443.099	2446.020	2434.590	2437.384	2461.006	2437.384
<b>22.5</b>	2406.904	2378.456	2407.412	2415.794	2387.854	2391.537	2379.091	2385.060	2402.967	2385.060
<b>25.0</b>	2349.754	2318.893	2350.389	2358.517	2328.291	2333.371	2319.020	2324.989	2345.182	2324.989
<b>27.5</b>	2288.794	2255.774	2288.032	2296.795	2263.394	2272.157	2256.917	2262.505	2281.682	2262.505
<b>30.0</b>	2218.563	2191.639	2223.008	2232.660	2197.100	2207.387	2191.385	2197.989	2217.166	2197.989
<b>32.5</b>	2158.746	2124.202	2158.492	2167.001	2127.377	2142.109	2124.456	2130.933	2150.999	2130.933
<b>35.0</b>	2093.722	2054.225	2092.071	2099.183	2056.638	2071.243	2055.114	2062.226	2084.705	2062.226
<b>37.5</b>	2021.459	1983.359	2023.491	2030.984	1987.042	2001.774	1984.756	1993.011	2016.506	1993.011
<b>40.0</b>	1946.021	1913.636	1953.387	1964.182	1913.382	1929.257	1912.747	1925.066	1951.482	1925.066
<b>42.5</b>	1871.472	1843.278	1887.728	1895.729	1845.564	1856.867	1843.913	1856.740	1885.569	1856.740
<b>45.0</b>	1803.527	1771.523	1819.148	1830.070	1773.936	1783.969	1771.142	1789.811	1820.164	1789.811
<b>47.5</b>	1733.296	1699.133	1753.997	1763.395	1704.848	1709.674	1700.530	1721.739	1755.902	1721.739
<b>50.0</b>	1656.588	1627.378	1684.401	1695.577	1634.236	1635.125	1626.743	1654.175	1689.989	1654.175
<b>52.5</b>	1576.070	1552.702	1615.186	1628.140	1560.195	1561.211	1552.956	1585.722	1621.917	1585.722
<b>55.0</b>	1499.997	1481.582	1546.733	1558.290	1486.154	1483.868	1480.566	1515.745	1554.861	1515.745
<b>57.5</b>	1425.829	1405.890	1476.121	1487.551	1411.732	1407.922	1404.493	1442.847	1486.281	1442.847
<b>60.0</b>	1348.994	1329.563	1401.318	1415.034	1336.675	1329.055	1327.023	1371.600	1415.415	1371.600
<b>62.5</b>	1265.555	1252.601	1325.372	1337.945	1259.967	1249.553	1248.791	1297.305	1339.723	1297.305
<b>65.0</b>	1182.624	1171.448	1245.743	1260.094	1178.814	1167.638	1169.289	1218.946	1260.729	1218.946
<b>67.5</b>	1096.772	1088.009	1166.749	1180.592	1099.820	1086.739	1087.501	1138.555	1181.354	1138.555
<b>70.0</b>	1014.349	1003.935	1085.088	1098.042	1019.302	1002.665	1004.316	1056.894	1101.090	1056.894
<b>72.5</b>	930.529	920.115	998.347	1015.365	936.371	920.369	921.639	974.979	1019.810	974.979
<b>75.0</b>	842.645	837.692	916.178	932.180	855.472	835.660	838.073	892.302	936.117	892.302
<b>77.5</b>	757.428	752.602	831.088	846.455	771.398	749.681	755.396	807.466	849.884	807.466
<b>80.0</b>	671.449	665.988	743.712	757.809	685.165	665.607	670.814	721.360	760.349	721.360
<b>82.5</b>	585.597	581.406	655.828	669.417	600.456	580.136	584.327	638.048	675.513	638.048
<b>85.0</b>	494.665	493.649	565.912	577.088	514.731	493.522	498.348	553.085	587.502	553.085
<b>87.5</b>	375.285	377.571	444.881	453.009	404.749	375.666	390.398	445.897	472.059	445.897
<b>90.0</b>	243.967	248.158	300.736	306.832	261.112	243.332	253.492	299.593	319.532	299.593
<b>92.5</b>	231.775	238.252	281.178	284.861	244.094	229.362	235.204	275.463	297.053	275.463
<b>95.0</b>	268.224	272.669	302.641	299.593	273.050	259.588	261.239	294.894	315.595	294.894
<b>97.5</b>	267.716	258.064	289.941	296.926	276.098	272.542	273.812	291.973	304.038	291.973
<b>100.0</b>	247.523	242.062	280.035	284.734	263.017	262.890	262.255	279.527	282.956	279.527
<b>102.5</b>	242.824	234.823	270.891	276.352	250.444	249.682	248.666	267.843	266.573	267.843
<b>105.0</b>	231.267	223.901	258.064	273.812	238.506	239.395	237.236	253.492	258.953	253.492
<b>107.5</b>	220.472	210.820	243.967	266.827	225.806	228.854	225.425	239.649	259.588	239.649
<b>110.0</b>	210.566	193.548	232.664	258.826	214.757	216.789	211.582	217.678	246.761	217.678
<b>112.5</b>	196.088	175.768	225.044	250.444	205.613	206.629	192.024	204.216	237.236	204.216
<b>115.0</b>	186.436	167.513	215.392	239.141	197.104	197.231	169.926	195.707	228.727	195.707
<b>117.5</b>	156.972	160.274	207.645	228.092	189.738	186.944	157.099	188.976	219.329	188.976
<b>120.0</b>	137.414	156.210	200.660	215.900	180.594	166.497	151.638	180.340	211.455	180.340
<b>122.5</b>	127.762	148.463	191.643	206.883	170.434	144.780	145.923	174.371	202.184	174.371
<b>125.0</b>	120.904	142.748	185.039	196.088	156.845	130.556	137.922	169.418	200.279	169.418
<b>127.5</b>	114.300	137.668	179.451	187.833	145.923	122.809	131.191	165.608	195.834	165.608
<b>130.0</b>	108.204	130.302	172.212	178.562	134.620	114.554	124.841	163.576	191.008	163.576
<b>132.5</b>	102.489	126.873	165.608	170.053	125.603	108.204	120.142	157.988	185.293	157.988

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**CANDELA TABULATION - (Cont.)**

135.0	94.869	124.079	158.623	163.195	115.697	100.203	116.332	152.781	177.038	152.781
137.5	91.567	121.412	153.670	153.924	109.601	91.821	116.713	145.923	165.862	145.923
140.0	86.614	117.348	146.050	144.526	100.457	84.074	116.713	140.462	157.226	140.462
142.5	81.407	111.760	137.287	135.382	94.615	78.613	114.173	134.747	146.685	134.747
145.0	86.995	108.077	127.000	124.079	89.154	76.835	110.617	128.143	135.763	128.143
147.5	101.346	106.045	118.110	115.062	82.931	75.057	105.918	119.253	124.714	119.253
150.0	95.758	97.790	107.823	107.315	78.232	76.073	98.552	107.696	114.046	107.696
152.5	87.630	89.789	98.679	95.758	69.850	74.803	89.535	98.933	104.394	98.933
155.0	78.867	80.010	89.662	86.614	63.119	75.438	80.645	88.392	94.488	88.392
157.5	72.263	71.501	80.391	78.232	56.769	68.580	71.247	79.756	83.439	79.756
160.0	63.500	63.754	70.358	68.707	52.070	60.579	64.389	72.263	73.025	72.263
162.5	54.483	55.245	61.341	58.674	44.831	52.959	56.134	61.468	64.643	61.468
165.0	47.498	48.514	52.324	51.562	41.021	46.990	48.768	53.467	53.213	53.467
167.5	38.354	40.513	43.180	43.053	34.290	36.195	39.116	44.577	46.609	44.577
170.0	33.020	33.274	35.941	35.941	30.099	32.385	32.893	37.084	35.941	37.084
172.5	24.765	26.543	29.337	27.813	23.241	25.908	28.067	30.226	29.464	30.226
175.0	21.590	21.336	21.590	20.955	20.193	21.590	21.209	23.114	22.352	23.114
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. 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	2630.932	2630.932	2630.932	2630.932	2630.932	2630.932	2630.932
2.5	2625.852	2632.710	2626.487	2635.123	2629.789	2621.788	2635.631
5.0	2617.978	2625.344	2624.201	2634.996	2632.075	2617.724	2627.503
7.5	2605.405	2611.247	2615.184	2629.916	2621.534	2607.945	2618.359
10.0	2584.831	2592.197	2597.531	2614.803	2606.675	2587.117	2603.500
12.5	2557.907	2566.416	2569.972	2591.435	2583.307	2559.431	2578.989
15.0	2523.363	2532.634	2535.301	2556.764	2548.763	2526.411	2546.223
17.5	2483.358	2491.613	2491.740	2516.505	2508.377	2482.977	2505.837
20.0	2434.590	2446.020	2443.099	2468.880	2460.117	2434.590	2460.879
22.5	2379.091	2391.537	2387.854	2415.794	2407.412	2378.456	2406.904
25.0	2319.020	2333.371	2328.291	2358.517	2350.389	2318.893	2349.754
27.5	2256.917	2272.157	2263.394	2296.795	2288.032	2255.774	2288.794
30.0	2191.385	2207.387	2197.100	2232.660	2223.008	2191.639	2218.563
32.5	2124.456	2142.109	2127.377	2167.001	2158.492	2124.202	2158.746
35.0	2055.114	2071.243	2056.638	2099.183	2092.071	2054.225	2093.722
37.5	1984.756	2001.774	1987.042	2030.984	2023.491	1983.359	2021.459
40.0	1912.747	1929.257	1913.382	1964.182	1953.387	1913.636	1946.021
42.5	1843.913	1856.867	1845.564	1895.729	1887.728	1843.278	1871.472
45.0	1771.142	1783.969	1773.936	1830.070	1819.148	1771.523	1803.527
47.5	1700.530	1709.674	1704.848	1763.395	1753.997	1699.133	1733.296
50.0	1626.743	1635.125	1634.236	1695.577	1684.401	1627.378	1656.588
52.5	1552.956	1561.211	1560.195	1628.140	1615.186	1552.702	1576.070
55.0	1480.566	1483.868	1486.154	1558.290	1546.733	1481.582	1499.997
57.5	1404.493	1407.922	1411.732	1487.551	1476.121	1405.890	1425.829
60.0	1327.023	1329.055	1336.675	1415.034	1401.318	1329.563	1348.994
62.5	1248.791	1249.553	1259.967	1337.945	1325.372	1252.601	1265.555
65.0	1169.289	1167.638	1178.814	1260.094	1245.743	1171.448	1182.624
67.5	1087.501	1086.739	1099.820	1180.592	1166.749	1088.009	1096.772
70.0	1004.316	1002.665	1019.302	1098.042	1085.088	1003.935	1014.349
72.5	921.639	920.369	936.371	1015.365	998.347	920.115	930.529
75.0	838.073	835.660	855.472	932.180	916.178	837.692	842.645
77.5	755.396	749.681	771.398	846.455	831.088	752.602	757.428
80.0	670.814	665.607	685.165	757.809	743.712	665.988	671.449

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**CANDELA TABULATION - (Cont.)**

82.5	584.327	580.136	600.456	669.417	655.828	581.406	585.597
85.0	498.348	493.522	514.731	577.088	565.912	493.649	494.665
87.5	390.398	375.666	404.749	453.009	444.881	377.571	375.285
90.0	253.492	243.332	261.112	306.832	300.736	248.158	243.967
92.5	235.204	229.362	244.094	284.861	281.178	238.252	231.775
95.0	261.239	259.588	273.050	299.593	302.641	272.669	268.224
97.5	273.812	272.542	276.098	296.926	289.941	258.064	267.716
100.0	262.255	262.890	263.017	284.734	280.035	242.062	247.523
102.5	248.666	249.682	250.444	276.352	270.891	234.823	242.824
105.0	237.236	239.395	238.506	273.812	258.064	223.901	231.267
107.5	225.425	228.854	225.806	266.827	243.967	210.820	220.472
110.0	211.582	216.789	214.757	258.826	232.664	193.548	210.566
112.5	192.024	206.629	205.613	250.444	225.044	175.768	196.088
115.0	169.926	197.231	197.104	239.141	215.392	167.513	186.436
117.5	157.099	186.944	189.738	228.092	207.645	160.274	156.972
120.0	151.638	166.497	180.594	215.900	200.660	156.210	137.414
122.5	145.923	144.780	170.434	206.883	191.643	148.463	127.762
125.0	137.922	130.556	156.845	196.088	185.039	142.748	120.904
127.5	131.191	122.809	145.923	187.833	179.451	137.668	114.300
130.0	124.841	114.554	134.620	178.562	172.212	130.302	108.204
132.5	120.142	108.204	125.603	170.053	165.608	126.873	102.489
135.0	116.332	100.203	115.697	163.195	158.623	124.079	94.869
137.5	116.713	91.821	109.601	153.924	153.670	121.412	91.567
140.0	116.713	84.074	100.457	144.526	146.050	117.348	86.614
142.5	114.173	78.613	94.615	135.382	137.287	111.760	81.407
145.0	110.617	76.835	89.154	124.079	127.000	108.077	86.995
147.5	105.918	75.057	82.931	115.062	118.110	106.045	101.346
150.0	98.552	76.073	78.232	107.315	107.823	97.790	95.758
152.5	89.535	74.803	69.850	95.758	98.679	89.789	87.630
155.0	80.645	75.438	63.119	86.614	89.662	80.010	78.867
157.5	71.247	68.580	56.769	78.232	80.391	71.501	72.263
160.0	64.389	60.579	52.070	68.707	70.358	63.754	63.500
162.5	56.134	52.959	44.831	58.674	61.341	55.245	54.483
165.0	48.768	46.990	41.021	51.562	52.324	48.514	47.498
167.5	39.116	36.195	34.290	43.053	43.180	40.513	38.354
170.0	32.893	32.385	30.099	35.941	35.941	33.274	33.020
172.5	28.067	25.908	23.241	27.813	29.337	26.543	24.765
175.0	21.209	21.590	20.193	20.955	21.590	21.336	21.590
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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	965.21	N.A.	9.80
0-30	2041.49	N.A.	20.70
0-40	3339.52	N.A.	33.80
0-60	6077.19	N.A.	61.50
0-80	8192.42	N.A.	82.90
0-90	8751.19	N.A.	88.60
10-90	8501.5	N.A.	86.10
20-40	2374.31	N.A.	24.00
20-50	3760.61	N.A.	38.10
40-70	3930.04	N.A.	39.80
60-80	2115.23	N.A.	21.40
70-80	922.86	N.A.	9.30
80-90	558.77	N.A.	5.70
90-110	557.40	N.A.	5.60
90-120	755.37	N.A.	7.60
90-130	900.01	N.A.	9.10
90-150	1072.89	N.A.	10.90
90-180	1127.4	N.A.	11.40
110-180	569.99	N.A.	5.80
0-180	9878.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	249.70
10-20	715.51
20-30	1076.28
30-40	1298.03
40-50	1386.3
50-60	1351.37
60-70	1192.37
70-80	922.86
80-90	558.77
90-100	297.33
100-110	260.07
110-120	197.97
120-130	144.64
130-140	103.77
140-150	69.11
150-160	38.01
160-170	14.30
170-180	2.20

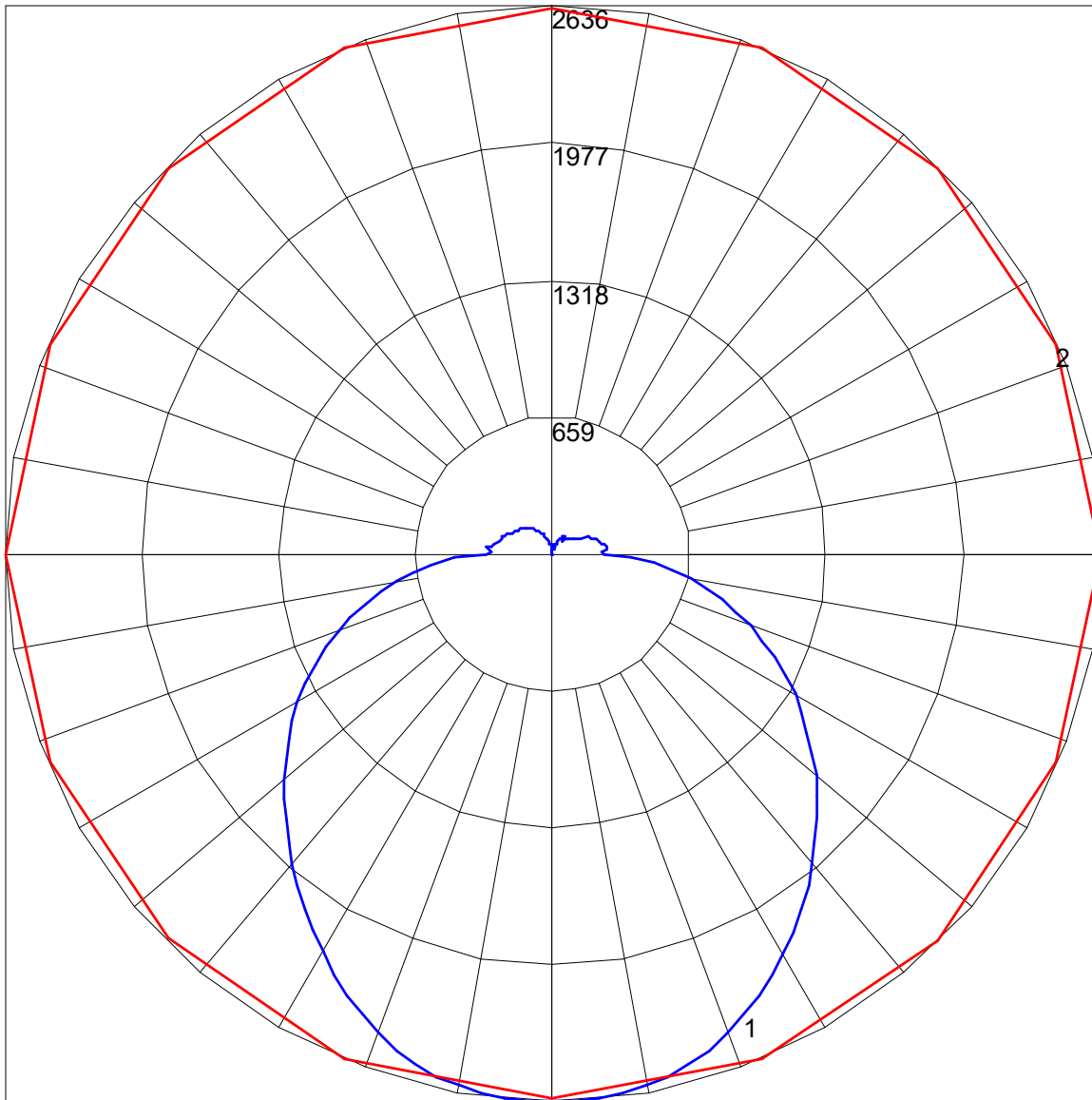
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BTRI-PRO-44-LED35-MO.IES**

**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	92	92	92	89
1	104	98	93	89	100	95	90	86	88	85	81	83	80	77	77	75	72	70
2	94	84	77	70	90	82	75	69	76	70	65	71	66	62	66	62	59	56
3	85	73	65	58	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	77	65	55	48	74	63	54	47	59	51	45	55	49	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	42	36	31	29
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	26
8	56	42	34	28	54	41	33	27	39	32	26	37	30	26	35	29	25	23
9	53	39	30	25	51	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 = 2635.631 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)