



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BSQ-PRO-44-LED35-HO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] BSQ-44-LED35-HO  
 [TESTLAB] INTERTEK  
 [ISSUE DATE] 8-13-18  
 [MANUFAC] PRUDENTIAL  
 [\_TOTALLUMINAIRELUMENS] 10641

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	200
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.17 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	88939	56492	48349
55	91035	50328	41632
65	95979	44386	34888
75	106316	37580	27038
85	159699	29395	19006

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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>	6226.88	6226.88	6226.88	6226.88	6226.88	6226.88	6226.88	6226.88	6226.88	6226.88
<b>2.5</b>	6231.50	6230.40	6191.68	6214.12	6214.56	6222.48	6189.48	6215.88	6214.56	6215.88
<b>5.0</b>	6196.96	6198.28	6160.66	6184.86	6193.00	6196.52	6166.38	6194.54	6197.84	6194.54
<b>7.5</b>	6167.70	6163.96	6127.66	6154.94	6168.36	6154.06	6125.90	6154.72	6168.58	6154.72
<b>10.0</b>	6122.60	6120.18	6090.48	6110.28	6110.50	6104.78	6085.86	6110.72	6111.60	6110.72
<b>12.5</b>	6065.62	6053.30	6030.20	6048.90	6041.64	6040.54	6027.56	6041.86	6042.74	6041.86
<b>15.0</b>	5978.72	5977.40	5959.36	5965.74	5959.36	5960.90	5956.94	5958.70	5954.74	5958.70
<b>17.5</b>	5876.86	5886.76	5868.94	5865.64	5850.24	5861.46	5863.44	5862.12	5852.44	5862.12
<b>20.0</b>	5760.70	5777.86	5762.02	5751.24	5734.74	5752.34	5758.28	5753.22	5734.74	5753.22
<b>22.5</b>	5634.42	5655.98	5641.02	5621.00	5591.52	5626.06	5636.40	5628.04	5597.46	5628.04
<b>25.0</b>	5485.92	5524.64	5505.28	5483.28	5441.48	5490.54	5499.78	5483.50	5451.16	5483.50
<b>27.5</b>	5337.20	5374.38	5361.40	5337.42	5291.66	5346.00	5352.38	5339.84	5301.56	5339.84
<b>30.0</b>	5174.62	5223.90	5210.70	5187.82	5134.14	5192.00	5200.14	5189.14	5145.36	5189.14
<b>32.5</b>	5024.80	5062.20	5053.62	5032.06	4968.70	5036.02	5041.52	5034.70	4976.40	5034.70
<b>35.0</b>	4861.78	4903.36	4894.34	4874.76	4804.14	4873.00	4877.40	4873.22	4811.40	4873.22
<b>37.5</b>	4687.32	4739.68	4734.18	4709.98	4636.72	4707.56	4712.18	4713.28	4649.48	4713.28
<b>40.0</b>	4518.14	4581.06	4567.42	4546.08	4470.84	4546.08	4547.84	4550.92	4481.40	4550.92
<b>42.5</b>	4357.54	4420.24	4402.86	4384.60	4304.08	4383.28	4382.62	4385.92	4318.60	4385.92
<b>45.0</b>	4203.32	4259.64	4239.40	4221.80	4139.52	4218.50	4219.82	4223.34	4159.10	4223.34
<b>47.5</b>	4038.98	4095.96	4076.60	4057.68	3975.84	4053.28	4052.84	4060.32	3995.42	4060.32
<b>50.0</b>	3866.28	3936.90	3912.26	3892.46	3808.86	3890.04	3887.62	3900.38	3832.18	3900.38
<b>52.5</b>	3699.08	3771.90	3746.38	3726.58	3639.90	3727.02	3722.40	3736.92	3664.10	3736.92
<b>55.0</b>	3540.46	3604.48	3577.20	3560.48	3468.96	3552.34	3554.98	3568.62	3492.94	3568.62
<b>57.5</b>	3374.58	3432.66	3408.24	3386.46	3294.06	3378.98	3382.72	3398.34	3322.00	3398.34
<b>60.0</b>	3192.42	3260.84	3237.74	3213.76	3114.32	3207.38	3209.36	3221.68	3145.12	3221.68
<b>62.5</b>	3002.56	3084.40	3060.86	3033.14	2928.86	3024.78	3036.88	3044.58	2960.98	3044.58
<b>65.0</b>	2816.00	2901.36	2882.88	2847.24	2738.78	2837.78	2858.24	2859.56	2771.56	2859.56
<b>67.5</b>	2627.90	2710.62	2701.16	2658.70	2544.08	2646.82	2673.66	2670.58	2574.66	2670.58
<b>70.0</b>	2429.02	2517.46	2513.94	2466.42	2338.82	2453.00	2487.98	2477.64	2374.68	2477.64
<b>72.5</b>	2218.48	2319.90	2326.94	2265.34	2130.04	2254.78	2300.76	2283.16	2171.40	2283.16
<b>75.0</b>	2009.04	2122.12	2136.42	2064.70	1927.64	2055.90	2114.64	2085.60	1966.14	2085.60
<b>77.5</b>	1822.04	1924.56	1948.98	1873.96	1727.00	1859.88	1927.42	1891.78	1774.74	1891.78
<b>80.0</b>	1624.48	1732.72	1760.88	1678.82	1532.74	1664.74	1737.12	1698.62	1577.62	1698.62
<b>82.5</b>	1434.18	1543.74	1576.30	1488.96	1344.20	1478.40	1553.20	1509.20	1388.86	1509.20
<b>85.0</b>	1258.40	1357.40	1382.26	1303.72	1176.78	1288.54	1361.36	1325.50	1222.76	1325.50
<b>87.5</b>	1095.60	1157.64	1161.38	1094.94	1001.00	1065.68	1114.08	1093.84	1033.56	1093.84
<b>90.0</b>	617.32	658.46	675.18	640.20	565.18	617.98	659.56	630.74	567.60	630.74
<b>92.5</b>	527.34	592.68	644.38	602.80	574.20	633.60	711.92	670.56	628.32	670.56
<b>95.0</b>	753.28	710.16	655.16	674.08	654.72	660.00	618.86	665.50	661.76	665.50
<b>97.5</b>	513.04	588.72	612.48	573.32	472.56	570.90	643.72	583.66	485.98	583.66
<b>100.0</b>	468.16	616.66	734.58	603.46	463.32	594.00	727.76	658.02	538.56	658.02
<b>102.5</b>	574.42	692.34	738.98	658.46	539.00	647.46	750.86	709.28	615.78	709.28
<b>105.0</b>	610.06	661.54	707.74	657.80	556.82	618.42	702.46	687.06	611.82	687.06
<b>107.5</b>	568.04	584.54	655.60	614.90	485.32	554.18	652.96	639.98	503.14	639.98
<b>110.0</b>	460.24	541.86	628.32	561.00	412.72	519.42	621.72	576.62	447.26	576.62
<b>112.5</b>	417.34	513.92	593.56	502.04	391.16	491.04	585.42	513.48	424.82	513.48
<b>115.0</b>	401.06	493.02	554.18	453.42	373.34	465.96	549.12	467.94	399.30	467.94
<b>117.5</b>	383.02	474.10	523.16	419.54	354.42	447.48	520.96	435.38	381.70	435.38
<b>120.0</b>	365.42	465.30	509.96	398.20	338.80	451.00	517.44	411.84	366.30	411.84
<b>122.5</b>	346.50	463.32	500.50	380.60	322.96	446.16	502.48	394.46	358.38	394.46
<b>125.0</b>	334.18	454.74	475.64	374.44	337.92	435.38	478.94	393.80	399.08	393.80
<b>127.5</b>	359.92	447.04	451.00	368.94	368.94	426.80	455.18	385.88	402.16	385.88
<b>130.0</b>	388.08	425.26	427.24	357.06	357.72	406.78	430.32	376.20	383.90	376.20
<b>132.5</b>	364.54	403.26	403.92	346.50	338.14	386.76	402.60	368.28	365.20	368.28

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**CANDELA TABULATION - (Cont.)**

135.0	347.60	380.60	380.60	337.92	321.64	364.32	376.86	356.18	349.36	356.18
137.5	325.16	359.26	355.52	324.28	304.92	344.96	349.36	344.96	325.82	344.96
140.0	308.44	336.82	334.40	313.06	285.12	321.86	329.34	329.12	307.56	329.12
142.5	289.96	314.82	311.08	298.32	269.28	304.04	306.02	311.08	287.76	311.08
145.0	272.14	292.38	288.20	282.48	253.44	280.28	285.12	290.18	267.08	290.18
147.5	253.00	274.56	265.98	263.56	235.40	257.40	262.02	269.50	247.28	269.50
150.0	236.28	248.82	243.10	243.98	215.38	237.82	241.78	249.70	230.34	249.70
152.5	214.72	225.94	222.86	220.66	198.44	214.06	219.34	229.02	208.56	229.02
155.0	195.80	204.16	200.20	198.66	181.06	191.62	199.98	207.68	194.26	207.68
157.5	178.64	182.38	179.30	177.54	163.68	173.14	176.00	185.24	171.16	185.24
160.0	157.30	161.48	157.96	157.52	146.74	150.92	155.98	164.56	155.98	164.56
162.5	137.94	140.80	137.28	136.18	129.36	132.88	135.52	142.12	134.20	142.12
165.0	120.12	119.24	115.06	119.24	115.50	112.64	113.96	121.44	117.04	121.44
167.5	106.26	99.66	96.58	100.10	98.78	99.00	100.54	100.10	96.58	100.10
170.0	86.24	86.02	79.86	84.48	83.38	81.40	80.52	86.24	83.38	86.24
172.5	70.40	67.98	64.46	69.52	68.42	68.64	67.32	68.86	67.32	68.86
175.0	57.42	58.08	55.44	58.08	57.64	56.10	57.42	56.32	55.66	56.32
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	6226.88	6226.88	6226.88	6226.88	6226.88	6226.88	6226.88
2.5	6189.48	6222.48	6214.56	6214.12	6191.68	6230.40	6231.50
5.0	6166.38	6196.52	6193.00	6184.86	6160.66	6198.28	6196.96
7.5	6125.90	6154.06	6168.36	6154.94	6127.66	6163.96	6167.70
10.0	6085.86	6104.78	6110.50	6110.28	6090.48	6120.18	6122.60
12.5	6027.56	6040.54	6041.64	6048.90	6030.20	6053.30	6065.62
15.0	5956.94	5960.90	5959.36	5965.74	5959.36	5977.40	5978.72
17.5	5863.44	5861.46	5850.24	5865.64	5868.94	5886.76	5876.86
20.0	5758.28	5752.34	5734.74	5751.24	5762.02	5777.86	5760.70
22.5	5636.40	5626.06	5591.52	5621.00	5641.02	5655.98	5634.42
25.0	5499.78	5490.54	5441.48	5483.28	5505.28	5524.64	5485.92
27.5	5352.38	5346.00	5291.66	5337.42	5361.40	5374.38	5337.20
30.0	5200.14	5192.00	5134.14	5187.82	5210.70	5223.90	5174.62
32.5	5041.52	5036.02	4968.70	5032.06	5053.62	5062.20	5024.80
35.0	4877.40	4873.00	4804.14	4874.76	4894.34	4903.36	4861.78
37.5	4712.18	4707.56	4636.72	4709.98	4734.18	4739.68	4687.32
40.0	4547.84	4546.08	4470.84	4546.08	4567.42	4581.06	4518.14
42.5	4382.62	4383.28	4304.08	4384.60	4402.86	4420.24	4357.54
45.0	4219.82	4218.50	4139.52	4221.80	4239.40	4259.64	4203.32
47.5	4052.84	4053.28	3975.84	4057.68	4076.60	4095.96	4038.98
50.0	3887.62	3890.04	3808.86	3892.46	3912.26	3936.90	3866.28
52.5	3722.40	3727.02	3639.90	3726.58	3746.38	3771.90	3699.08
55.0	3554.98	3552.34	3468.96	3560.48	3577.20	3604.48	3540.46
57.5	3382.72	3378.98	3294.06	3386.46	3408.24	3432.66	3374.58
60.0	3209.36	3207.38	3114.32	3213.76	3237.74	3260.84	3192.42
62.5	3036.88	3024.78	2928.86	3033.14	3060.86	3084.40	3002.56
65.0	2858.24	2837.78	2738.78	2847.24	2882.88	2901.36	2816.00
67.5	2673.66	2646.82	2544.08	2658.70	2701.16	2710.62	2627.90
70.0	2487.98	2453.00	2338.82	2466.42	2513.94	2517.46	2429.02
72.5	2300.76	2254.78	2130.04	2265.34	2326.94	2319.90	2218.48
75.0	2114.64	2055.90	1927.64	2064.70	2136.42	2122.12	2009.04
77.5	1927.42	1859.88	1727.00	1873.96	1948.98	1924.56	1822.04
80.0	1737.12	1664.74	1532.74	1678.82	1760.88	1732.72	1624.48

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**CANDELA TABULATION - (Cont.)**

82.5	1553.20	1478.40	1344.20	1488.96	1576.30	1543.74	1434.18
85.0	1361.36	1288.54	1176.78	1303.72	1382.26	1357.40	1258.40
87.5	1114.08	1065.68	1001.00	1094.94	1161.38	1157.64	1095.60
90.0	659.56	617.98	565.18	640.20	675.18	658.46	617.32
92.5	711.92	633.60	574.20	602.80	644.38	592.68	527.34
95.0	618.86	660.00	654.72	674.08	655.16	710.16	753.28
97.5	643.72	570.90	472.56	573.32	612.48	588.72	513.04
100.0	727.76	594.00	463.32	603.46	734.58	616.66	468.16
102.5	750.86	647.46	539.00	658.46	738.98	692.34	574.42
105.0	702.46	618.42	556.82	657.80	707.74	661.54	610.06
107.5	652.96	554.18	485.32	614.90	655.60	584.54	568.04
110.0	621.72	519.42	412.72	561.00	628.32	541.86	460.24
112.5	585.42	491.04	391.16	502.04	593.56	513.92	417.34
115.0	549.12	465.96	373.34	453.42	554.18	493.02	401.06
117.5	520.96	447.48	354.42	419.54	523.16	474.10	383.02
120.0	517.44	451.00	338.80	398.20	509.96	465.30	365.42
122.5	502.48	446.16	322.96	380.60	500.50	463.32	346.50
125.0	478.94	435.38	337.92	374.44	475.64	454.74	334.18
127.5	455.18	426.80	368.94	368.94	451.00	447.04	359.92
130.0	430.32	406.78	357.72	357.06	427.24	425.26	388.08
132.5	402.60	386.76	338.14	346.50	403.92	403.26	364.54
135.0	376.86	364.32	321.64	337.92	380.60	380.60	347.60
137.5	349.36	344.96	304.92	324.28	355.52	359.26	325.16
140.0	329.34	321.86	285.12	313.06	334.40	336.82	308.44
142.5	306.02	304.04	269.28	298.32	311.08	314.82	289.96
145.0	285.12	280.28	253.44	282.48	288.20	292.38	272.14
147.5	262.02	257.40	235.40	263.56	265.98	274.56	253.00
150.0	241.78	237.82	215.38	243.98	243.10	248.82	236.28
152.5	219.34	214.06	198.44	220.66	222.86	225.94	214.72
155.0	199.98	191.62	181.06	198.66	200.20	204.16	195.80
157.5	176.00	173.14	163.68	177.54	179.30	182.38	178.64
160.0	155.98	150.92	146.74	157.52	157.96	161.48	157.30
162.5	135.52	132.88	129.36	136.18	137.28	140.80	137.94
165.0	113.96	112.64	115.50	119.24	115.06	119.24	120.12
167.5	100.54	99.00	98.78	100.10	96.58	99.66	106.26
170.0	80.52	81.40	83.38	84.48	79.86	86.02	86.24
172.5	67.32	68.64	68.42	69.52	64.46	67.98	70.40
175.0	57.42	56.10	57.64	58.08	55.44	58.08	57.42
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2269.7	N.A.	9.70
0-30	4799.11	N.A.	20.50
0-40	7847.58	N.A.	33.50
0-60	14280.22	N.A.	61.00
0-80	19271.75	N.A.	82.30
0-90	20645.24	N.A.	88.20
10-90	20057.17	N.A.	85.70
20-40	5577.88	N.A.	23.80
20-50	8833.05	N.A.	37.70
40-70	9243.45	N.A.	39.50
60-80	4991.54	N.A.	21.30
70-80	2180.72	N.A.	9.30
80-90	1373.48	N.A.	5.90
90-110	1334.72	N.A.	5.70
90-120	1807.31	N.A.	7.70
90-130	2179.82	N.A.	9.30
90-150	2634.66	N.A.	11.30
90-180	2767.21	N.A.	11.80
110-180	1432.49	N.A.	6.10
0-180	23412.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	588.07
10-20	1681.63
20-30	2529.41
30-40	3048.47
40-50	3255.17
50-60	3177.46
60-70	2810.82
70-80	2180.72
80-90	1373.49
90-100	677.54
100-110	657.18
110-120	472.59
120-130	372.51
130-140	277.96
140-150	176.88
150-160	92.47
160-170	34.55
170-180	5.53

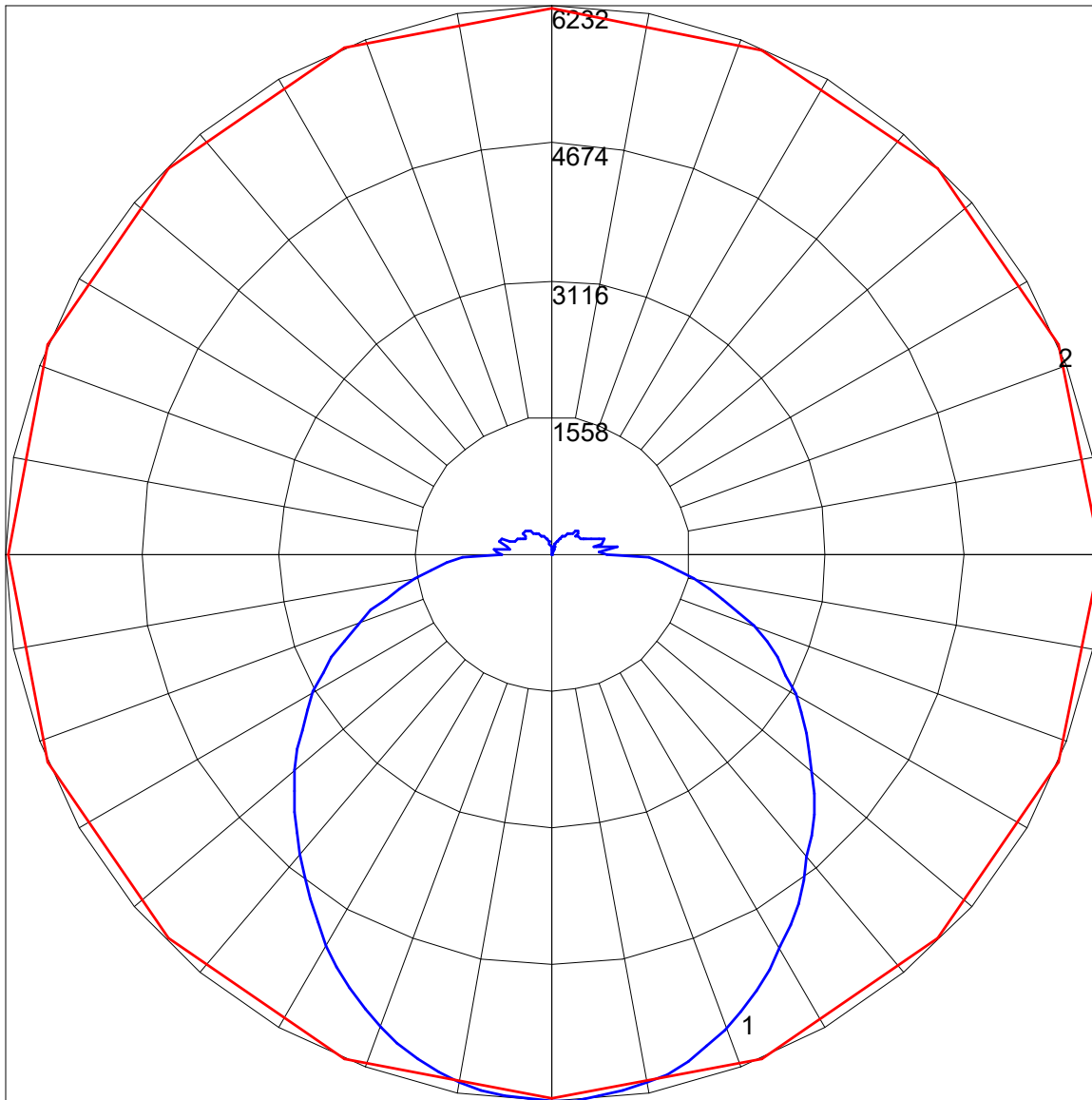
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**PHOTOMETRIC FILENAME : BSQ-PRO-44-LED35-HO.IES**

**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	93	84	77	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	64	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	41	39
5	71	57	48	41	68	56	47	40	52	44	39	49	42	37	46	40	36	33
6	65	51	42	36	63	50	41	35	47	39	34	44	37	32	41	36	31	29
7	60	47	37	31	58	45	37	31	42	35	30	40	33	29	38	32	28	25
8	56	42	34	28	54	41	33	27	39	32	26	37	30	25	35	29	25	23
9	52	39	30	25	50	38	30	24	36	29	24	34	27	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 = 6231.5 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.)