



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] BHEX-PRO-LED35-SO  
 [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	13715
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	113
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	99468	64053	57364
55	99617	56429	49387
65	101994	48833	41792
75	109300	40114	33621
85	146161	30465	24840

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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>	3651.76	3651.76	3651.76	3651.76	3651.76	3651.76	3651.76	3651.76	3651.76	3651.76
<b>2.5</b>	3646.16	3648.40	3645.32	3644.62	3647.00	3645.60	3650.50	3651.20	3648.26	3651.20
<b>5.0</b>	3632.86	3634.54	3635.52	3641.96	3644.62	3642.52	3643.36	3643.50	3642.10	3643.50
<b>7.5</b>	3615.36	3616.06	3624.32	3626.28	3624.46	3629.64	3633.42	3628.24	3623.34	3628.24
<b>10.0</b>	3590.02	3591.42	3597.02	3589.32	3591.98	3592.40	3608.36	3606.54	3598.42	3606.54
<b>12.5</b>	3551.52	3556.84	3547.46	3550.96	3551.94	3557.12	3563.70	3575.60	3565.38	3575.60
<b>15.0</b>	3500.98	3511.06	3496.22	3501.40	3504.48	3510.50	3518.62	3534.02	3522.54	3534.02
<b>17.5</b>	3441.48	3452.54	3438.82	3442.46	3456.18	3456.04	3464.30	3480.12	3468.50	3480.12
<b>20.0</b>	3372.88	3380.30	3373.30	3380.16	3388.56	3393.88	3403.82	3413.90	3406.06	3413.90
<b>22.5</b>	3299.66	3301.20	3302.74	3302.88	3331.16	3321.50	3331.72	3339.14	3334.10	3339.14
<b>25.0</b>	3214.12	3220.98	3225.18	3232.04	3240.16	3253.74	3257.52	3261.16	3255.70	3261.16
<b>27.5</b>	3129.14	3136.14	3137.12	3132.08	3152.80	3155.88	3164.42	3177.30	3168.90	3177.30
<b>30.0</b>	3039.82	3044.16	3051.16	3039.96	3064.32	3064.32	3081.68	3091.20	3077.76	3091.20
<b>32.5</b>	2943.50	2953.30	2956.10	2947.28	2969.26	2968.28	2983.68	3000.48	2983.54	3000.48
<b>35.0</b>	2846.62	2856.56	2856.42	2849.56	2875.60	2872.38	2886.10	2904.02	2887.36	2904.02
<b>37.5</b>	2748.48	2760.80	2757.44	2746.52	2781.66	2773.68	2786.98	2811.20	2788.94	2811.20
<b>40.0</b>	2650.20	2665.04	2659.16	2646.70	2678.06	2670.22	2693.46	2719.22	2689.26	2719.22
<b>42.5</b>	2550.38	2568.72	2561.02	2546.04	2579.50	2567.74	2593.64	2620.52	2589.44	2620.52
<b>45.0</b>	2452.66	2470.02	2463.30	2446.92	2480.24	2467.64	2494.66	2521.54	2490.74	2521.54
<b>47.5</b>	2352.70	2374.12	2364.46	2344.16	2380.70	2366.14	2395.68	2430.26	2392.74	2430.26
<b>50.0</b>	2252.88	2275.98	2263.80	2245.46	2281.72	2266.04	2293.90	2330.86	2295.86	2330.86
<b>52.5</b>	2152.64	2174.20	2161.74	2141.72	2180.08	2163.56	2192.82	2232.30	2192.96	2232.30
<b>55.0</b>	2047.78	2072.70	2062.06	2040.08	2078.16	2061.22	2093.98	2132.76	2091.46	2132.76
<b>57.5</b>	1944.04	1969.10	1958.88	1936.90	1975.40	1956.22	1991.78	2030.28	1991.08	2030.28
<b>60.0</b>	1835.26	1863.54	1853.18	1831.76	1870.40	1852.76	1887.34	1927.66	1889.86	1927.66
<b>62.5</b>	1726.48	1755.88	1744.96	1725.78	1763.16	1746.78	1783.32	1822.38	1785.56	1822.38
<b>65.0</b>	1614.62	1645.42	1636.74	1618.12	1656.76	1639.26	1674.96	1714.02	1677.90	1714.02
<b>67.5</b>	1504.02	1531.32	1526.00	1507.52	1548.54	1530.06	1566.60	1603.84	1565.34	1603.84
<b>70.0</b>	1392.02	1417.64	1413.30	1398.32	1434.02	1418.90	1453.20	1491.28	1456.98	1491.28
<b>72.5</b>	1275.82	1300.60	1298.36	1287.44	1321.74	1307.60	1339.80	1376.48	1344.42	1376.48
<b>75.0</b>	1161.16	1185.94	1182.30	1176.28	1210.44	1195.46	1226.68	1260.70	1233.26	1260.70
<b>77.5</b>	1050.56	1070.30	1071.98	1065.12	1102.08	1084.58	1115.66	1148.42	1121.40	1148.42
<b>80.0</b>	943.32	957.88	960.68	959.14	991.76	978.04	1004.50	1035.72	1011.22	1035.72
<b>82.5</b>	836.22	849.52	852.32	855.96	881.30	874.30	895.30	925.40	903.98	925.40
<b>85.0</b>	744.52	743.26	747.46	761.88	776.72	774.06	794.64	819.56	804.86	819.56
<b>87.5</b>	551.04	552.44	597.38	616.42	658.98	671.86	695.52	716.52	710.08	716.52
<b>90.0</b>	352.24	362.88	369.18	377.02	413.84	423.78	443.94	463.12	441.98	463.12
<b>92.5</b>	379.96	398.30	367.64	362.04	365.12	346.78	349.02	353.36	344.12	353.36
<b>95.0</b>	385.56	408.52	446.04	417.76	395.92	423.36	406.70	422.10	417.90	422.10
<b>97.5</b>	349.72	357.56	386.96	396.62	377.86	369.74	404.60	372.12	364.14	372.12
<b>100.0</b>	364.14	354.34	333.76	362.46	359.66	332.22	343.98	355.88	346.36	355.88
<b>102.5</b>	369.74	356.58	330.96	341.18	352.38	337.68	326.48	357.42	368.90	357.42
<b>105.0</b>	344.12	353.78	340.62	328.16	354.06	334.04	337.40	353.64	360.50	353.64
<b>107.5</b>	329.56	338.24	341.74	335.02	353.50	335.72	344.40	343.56	341.04	343.56
<b>110.0</b>	306.18	316.40	324.66	334.32	338.66	331.38	340.20	328.72	319.48	328.72
<b>112.5</b>	276.92	285.74	307.72	311.92	309.26	315.00	316.68	297.36	277.06	297.36
<b>115.0</b>	244.86	267.68	286.44	282.10	294.56	294.00	282.52	277.48	253.26	277.48
<b>117.5</b>	221.48	253.68	265.86	259.98	278.04	272.16	261.94	262.50	235.34	262.50
<b>120.0</b>	201.74	238.28	247.10	245.28	263.90	251.72	248.36	244.16	219.24	244.16
<b>122.5</b>	189.42	224.84	229.74	234.36	249.48	234.08	235.48	230.02	206.22	230.02
<b>125.0</b>	181.16	214.20	217.14	221.76	236.04	218.40	223.58	217.84	195.30	217.84
<b>127.5</b>	173.88	201.18	205.24	212.24	223.02	206.64	210.42	205.38	185.36	205.38
<b>130.0</b>	181.16	193.06	200.62	204.96	214.34	205.24	202.30	198.80	185.08	198.80
<b>132.5</b>	180.32	200.34	200.90	211.26	224.28	208.46	202.16	203.14	192.22	203.14

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**CANDELA TABULATION - (Cont.)**

135.0	171.64	202.02	193.48	207.34	223.72	200.34	202.02	202.02	186.76	202.02
137.5	166.04	190.26	184.24	201.46	211.26	190.82	200.90	194.60	181.30	194.60
140.0	159.88	177.38	176.26	193.90	198.24	180.88	196.42	183.40	178.50	183.40
142.5	154.00	164.50	166.04	183.96	186.06	173.46	184.66	171.22	169.82	171.22
145.0	146.16	154.70	155.40	171.36	171.92	162.82	172.06	160.44	158.76	160.44
147.5	140.42	142.66	144.76	158.20	158.90	152.60	158.76	148.54	146.44	148.54
150.0	130.20	129.92	134.82	143.64	144.62	141.54	146.02	136.92	136.36	136.92
152.5	118.16	117.74	121.52	131.88	131.04	131.32	133.28	124.88	125.02	124.88
155.0	106.26	105.84	109.76	117.46	115.92	119.70	120.82	112.70	111.86	112.70
157.5	94.08	93.38	98.14	104.72	103.32	108.22	107.38	101.92	98.70	101.92
160.0	83.02	82.04	86.94	91.98	91.28	96.32	93.80	91.00	87.64	91.00
162.5	70.56	69.72	74.06	78.96	79.10	83.16	81.48	77.98	78.82	77.98
165.0	59.36	57.96	62.72	67.06	66.78	69.44	69.02	66.50	63.98	66.50
167.5	50.40	47.18	53.20	55.16	54.88	58.24	57.40	55.86	54.88	55.86
170.0	41.58	38.92	42.42	43.96	43.68	48.58	45.92	45.78	46.34	45.78
172.5	32.62	29.96	32.62	35.70	34.30	38.22	39.62	36.96	33.74	36.96
175.0	25.20	24.92	26.74	28.00	27.58	29.26	28.98	29.96	30.52	29.96
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	3651.76	3651.76	3651.76	3651.76	3651.76	3651.76	3651.76
2.5	3650.50	3645.60	3647.00	3644.62	3645.32	3648.40	3646.16
5.0	3643.36	3642.52	3644.62	3641.96	3635.52	3634.54	3632.86
7.5	3633.42	3629.64	3624.46	3626.28	3624.32	3616.06	3615.36
10.0	3608.36	3592.40	3591.98	3589.32	3597.02	3591.42	3590.02
12.5	3563.70	3557.12	3551.94	3550.96	3547.46	3556.84	3551.52
15.0	3518.62	3510.50	3504.48	3501.40	3496.22	3511.06	3500.98
17.5	3464.30	3456.04	3456.18	3442.46	3438.82	3452.54	3441.48
20.0	3403.82	3393.88	3388.56	3380.16	3373.30	3380.30	3372.88
22.5	3331.72	3321.50	3331.16	3302.88	3302.74	3301.20	3299.66
25.0	3257.52	3253.74	3240.16	3232.04	3225.18	3220.98	3214.12
27.5	3164.42	3155.88	3152.80	3132.08	3137.12	3136.14	3129.14
30.0	3081.68	3064.32	3064.32	3039.96	3051.16	3044.16	3039.82
32.5	2983.68	2968.28	2969.26	2947.28	2956.10	2953.30	2943.50
35.0	2886.10	2872.38	2875.60	2849.56	2856.42	2856.56	2846.62
37.5	2786.98	2773.68	2781.66	2746.52	2757.44	2760.80	2748.48
40.0	2693.46	2670.22	2678.06	2646.70	2659.16	2665.04	2650.20
42.5	2593.64	2567.74	2579.50	2546.04	2561.02	2568.72	2550.38
45.0	2494.66	2467.64	2480.24	2446.92	2463.30	2470.02	2452.66
47.5	2395.68	2366.14	2380.70	2344.16	2364.46	2374.12	2352.70
50.0	2293.90	2266.04	2281.72	2245.46	2263.80	2275.98	2252.88
52.5	2192.82	2163.56	2180.08	2141.72	2161.74	2174.20	2152.64
55.0	2093.98	2061.22	2078.16	2040.08	2062.06	2072.70	2047.78
57.5	1991.78	1956.22	1975.40	1936.90	1958.88	1969.10	1944.04
60.0	1887.34	1852.76	1870.40	1831.76	1853.18	1863.54	1835.26
62.5	1783.32	1746.78	1763.16	1725.78	1744.96	1755.88	1726.48
65.0	1674.96	1639.26	1656.76	1618.12	1636.74	1645.42	1614.62
67.5	1566.60	1530.06	1548.54	1507.52	1526.00	1531.32	1504.02
70.0	1453.20	1418.90	1434.02	1398.32	1413.30	1417.64	1392.02
72.5	1339.80	1307.60	1321.74	1287.44	1298.36	1300.60	1275.82
75.0	1226.68	1195.46	1210.44	1176.28	1182.30	1185.94	1161.16
77.5	1115.66	1084.58	1102.08	1065.12	1071.98	1070.30	1050.56
80.0	1004.50	978.04	991.76	959.14	960.68	957.88	943.32

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**CANDELA TABULATION - (Cont.)**

82.5	895.30	874.30	881.30	855.96	852.32	849.52	836.22
85.0	794.64	774.06	776.72	761.88	747.46	743.26	744.52
87.5	695.52	671.86	658.98	616.42	597.38	552.44	551.04
90.0	443.94	423.78	413.84	377.02	369.18	362.88	352.24
92.5	349.02	346.78	365.12	362.04	367.64	398.30	379.96
95.0	406.70	423.36	395.92	417.76	446.04	408.52	385.56
97.5	404.60	369.74	377.86	396.62	386.96	357.56	349.72
100.0	343.98	332.22	359.66	362.46	333.76	354.34	364.14
102.5	326.48	337.68	352.38	341.18	330.96	356.58	369.74
105.0	337.40	334.04	354.06	328.16	340.62	353.78	344.12
107.5	344.40	335.72	353.50	335.02	341.74	338.24	329.56
110.0	340.20	331.38	338.66	334.32	324.66	316.40	306.18
112.5	316.68	315.00	309.26	311.92	307.72	285.74	276.92
115.0	282.52	294.00	294.56	282.10	286.44	267.68	244.86
117.5	261.94	272.16	278.04	259.98	265.86	253.68	221.48
120.0	248.36	251.72	263.90	245.28	247.10	238.28	201.74
122.5	235.48	234.08	249.48	234.36	229.74	224.84	189.42
125.0	223.58	218.40	236.04	221.76	217.14	214.20	181.16
127.5	210.42	206.64	223.02	212.24	205.24	201.18	173.88
130.0	202.30	205.24	214.34	204.96	200.62	193.06	181.16
132.5	202.16	208.46	224.28	211.26	200.90	200.34	180.32
135.0	202.02	200.34	223.72	207.34	193.48	202.02	171.64
137.5	200.90	190.82	211.26	201.46	184.24	190.26	166.04
140.0	196.42	180.88	198.24	193.90	176.26	177.38	159.88
142.5	184.66	173.46	186.06	183.96	166.04	164.50	154.00
145.0	172.06	162.82	171.92	171.36	155.40	154.70	146.16
147.5	158.76	152.60	158.90	158.20	144.76	142.66	140.42
150.0	146.02	141.54	144.62	143.64	134.82	129.92	130.20
152.5	133.28	131.32	131.04	131.88	121.52	117.74	118.16
155.0	120.82	119.70	115.92	117.46	109.76	105.84	106.26
157.5	107.38	108.22	103.32	104.72	98.14	93.38	94.08
160.0	93.80	96.32	91.28	91.98	86.94	82.04	83.02
162.5	81.48	83.16	79.10	78.96	74.06	69.72	70.56
165.0	69.02	69.44	66.78	67.06	62.72	57.96	59.36
167.5	57.40	58.24	54.88	55.16	53.20	47.18	50.40
170.0	45.92	48.58	43.68	43.96	42.42	38.92	41.58
172.5	39.62	38.22	34.30	35.70	32.62	29.96	32.62
175.0	28.98	29.26	27.58	28.00	26.74	24.92	25.20
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	1336.59	N.A.	9.70
0-30	2829.00	N.A.	20.60
0-40	4627.29	N.A.	33.70
0-60	8399.8	N.A.	61.20
0-80	11310.98	N.A.	82.50
0-90	12124.99	N.A.	88.40
10-90	11778.84	N.A.	85.90
20-40	3290.7	N.A.	24.00
20-50	5204.92	N.A.	38.00
40-70	5410.00	N.A.	39.40
60-80	2911.18	N.A.	21.20
70-80	1273.69	N.A.	9.30
80-90	814.01	N.A.	5.90
90-110	781.09	N.A.	5.70
90-120	1061.58	N.A.	7.70
90-130	1258.02	N.A.	9.20
90-150	1514.01	N.A.	11.00
90-180	1589.72	N.A.	11.60
110-180	808.63	N.A.	5.90
0-180	13714.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	346.16
10-20	990.44
20-30	1492.41
30-40	1798.29
40-50	1914.22
50-60	1858.28
60-70	1637.49
70-80	1273.69
80-90	814.01
90-100	418.50
100-110	362.60
110-120	280.49
120-130	196.43
130-140	153.47
140-150	102.53
150-160	53.50
160-170	19.36
170-180	2.84

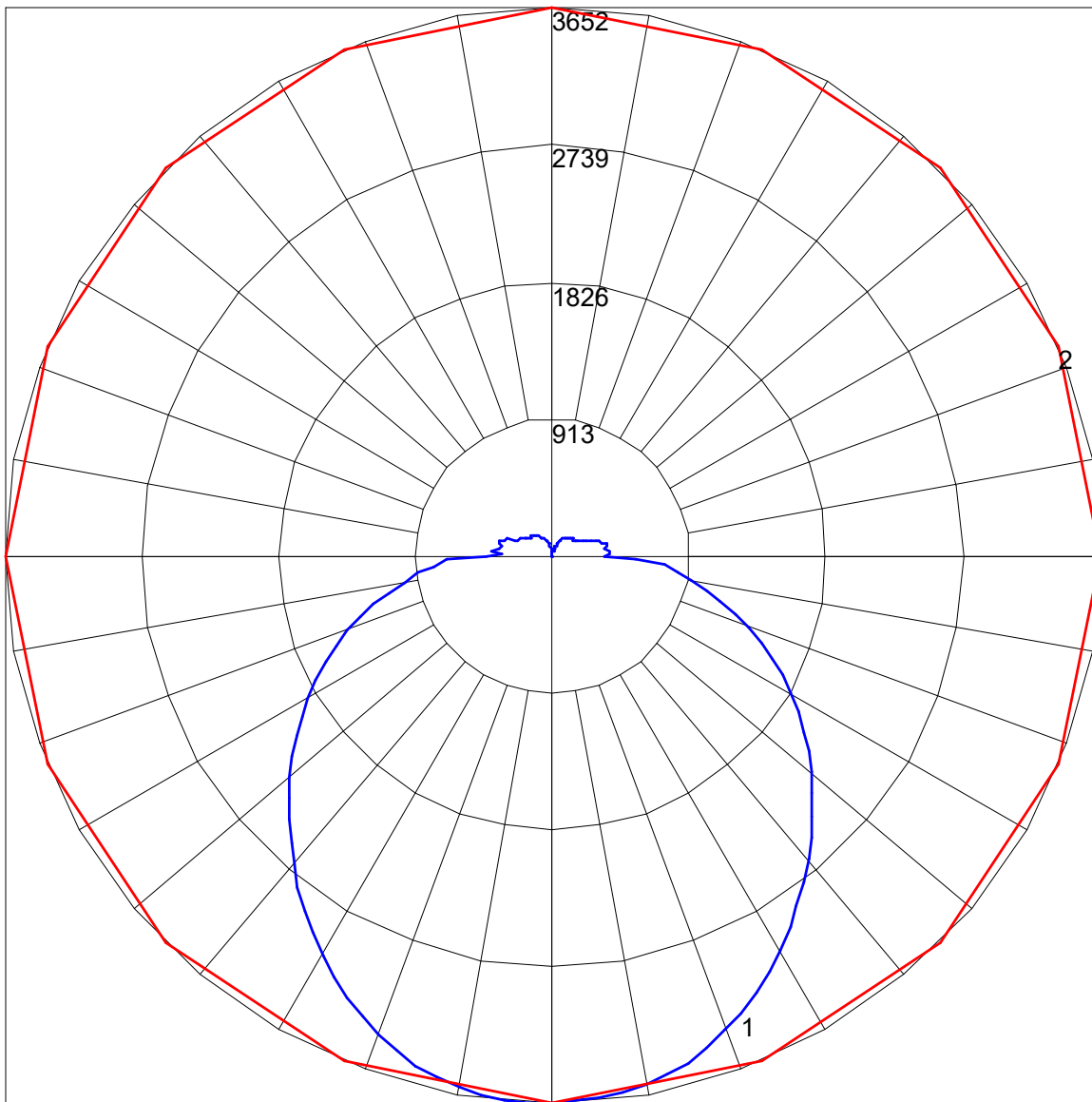
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 3651.76 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.)