



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL726LEDHTMOASYWT40120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2018.1.0 see: www.ltioptics.com/ies
 [ISSUEDATE]
 [TESTDATE] Wed Dec 19 11:22:35 2018
 [TEST] 1
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] BL726LEDHTMOASYWT40120-277V
 [LAMP] LED 0.3W White 2323 package (65mA)
 [LAMPCAT] SPMWHT221MD5WAT0S0
 [OTHER]
 IESNA:LM-63-2002
 [TEST] 6,552
 [TESTLAB] CSA Group
 [ISSUEDATE] 7/24/2013 1:09:24 PM
 [OTHER] Luminous shape: Rectangle
 [OTHER] Luminous dimensions (feet)
 [OTHER] 0 - 180 Axis: 4.2
 [OTHER] 90 - 270 Axis: 0.6
 [OTHER] Height: 0.1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7786
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.10
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.01 ft
Luminous Width (90-270)	0.99 ft
Luminous Height	0.36 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	52635	44938	19218
55	24644	23627	10885
65	7866	7848	4467
75	2524	2194	1659
85	416	366	432

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2889.31	2889.31	2889.31	2889.31	2889.31	2889.31	2889.31	2889.31	2889.31	2889.31
2.5	3031.29	3089.55	3068.99	2994.55	2981.54	3028.36	2874.68	2856.61	2740.40	2796.14
5.0	3268.01	3301.65	3318.11	3291.68	3175.59	3104.83	3033.33	2894.20	2793.95	2725.14
7.5	3682.55	3680.75	3660.61	3567.53	3473.38	3324.94	3216.82	3043.09	2926.17	2715.07
10.0	4060.19	4051.62	3970.79	3882.74	3817.02	3594.95	3419.94	3233.91	2946.29	2738.15
12.5	4397.77	4385.36	4336.62	4202.95	4039.53	3882.37	3609.17	3329.44	3055.48	2776.46
15.0	4809.71	4804.85	4704.25	4564.04	4364.27	4110.78	3860.81	3471.12	3106.16	2736.96
17.5	5175.29	5171.88	5038.73	4920.86	4665.74	4397.23	4015.49	3608.84	3203.38	2737.75
20.0	5554.78	5502.57	5423.89	5230.97	4966.16	4654.94	4220.58	3740.97	3269.58	2754.46
22.5	5877.90	5813.65	5675.99	5530.33	5237.00	4855.28	4386.10	3834.41	3298.97	2709.68
25.0	6119.66	6100.93	5973.97	5765.29	5446.57	5026.77	4539.90	3952.01	3308.92	2663.24
27.5	6317.94	6321.95	6198.95	6000.53	5628.36	5195.79	4683.15	3997.39	3314.11	2590.09
30.0	6497.90	6449.10	6343.79	6121.26	5753.97	5339.47	4700.50	4055.94	3312.29	2555.40
32.5	6505.68	6520.50	6410.27	6227.36	5867.73	5377.63	4795.55	4076.78	3277.93	2460.22
35.0	6542.43	6520.20	6416.57	6203.00	5879.24	5418.72	4795.31	4045.57	3207.01	2368.13
37.5	6314.77	6280.34	6242.99	6091.75	5801.20	5282.78	4724.92	3965.34	3108.86	2242.85
40.0	5904.78	5925.47	5927.31	5790.85	5543.43	5110.93	4526.50	3824.73	2952.56	2097.97
42.5	5371.83	5380.39	5404.97	5362.95	5147.90	4797.05	4251.04	3540.72	2756.33	1933.97
45.0	4717.42	4727.37	4762.73	4777.01	4627.63	4344.13	3892.15	3237.41	2497.00	1732.67
47.5	3990.72	4043.14	4102.79	4119.50	4046.86	3838.22	3464.29	2864.38	2212.77	1528.71
50.0	3266.80	3338.56	3401.96	3466.56	3446.80	3293.15	2992.94	2478.69	1897.58	1306.62
52.5	2583.10	2623.31	2707.92	2792.23	2826.44	2720.45	2474.65	2074.17	1572.45	1094.68
55.0	1994.55	2033.26	2089.62	2175.30	2221.44	2161.34	1991.07	1664.06	1268.34	887.75
57.5	1487.07	1500.88	1569.66	1635.60	1682.50	1665.18	1539.53	1291.60	988.87	706.41
60.0	1073.02	1086.60	1140.25	1195.12	1250.19	1253.88	1164.56	983.50	756.64	549.42
62.5	763.21	789.84	823.75	863.67	913.47	925.62	859.00	729.28	572.59	423.41
65.0	548.91	565.46	588.54	620.68	642.33	658.17	622.23	530.08	418.99	314.79
67.5	394.43	395.49	418.97	438.39	459.65	469.99	442.65	383.28	309.56	237.00
70.0	282.53	282.80	291.60	306.41	322.07	326.16	306.13	270.29	221.12	175.25
72.5	195.36	198.63	209.01	219.52	225.97	229.01	215.28	190.41	160.18	132.10
75.0	142.63	140.76	146.36	150.92	153.89	155.25	148.98	134.79	114.86	94.98
77.5	97.68	99.41	99.00	108.70	105.17	105.60	102.34	89.64	78.69	69.32
80.0	64.25	63.55	65.34	68.40	68.85	70.77	68.95	63.49	56.99	49.82
82.5	38.41	38.15	40.66	40.03	40.99	42.47	42.04	39.10	34.72	32.33
85.0	17.27	18.40	18.95	20.36	20.81	20.12	20.07	19.18	18.70	18.27
87.5	1.97	1.62	1.75	2.51	2.83	3.64	4.27	4.06	4.52	4.02
90.0	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.00
132.5	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.01

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135.0	0.00	0.16	0.29	0.04	0.00	0.04	0.00	0.00	0.02	0.00
137.5	0.00	0.10	0.24	0.04	0.00	0.24	0.08	0.00	0.00	0.01
140.0	0.00	0.04	0.15	0.00	0.12	0.14	0.07	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.23	0.12	0.03	0.02	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.01	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.01	0.02	0.01
155.0	0.00	0.05	0.01	0.01	0.03	0.00	0.00	0.00	0.00	0.00
157.5	0.01	0.00	0.01	0.00	0.00	0.00	0.06	0.00	0.00	0.00
160.0	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
167.5	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.09	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>
0.0	2889.31	2889.31	2889.31	2889.31	2889.31	2889.31	2889.31	2889.31	2889.31
2.5	2675.92	2652.86	2510.22	2494.23	2541.32	2467.22	2345.88	2356.24	2404.90
5.0	2519.18	2469.42	2373.73	2303.29	2175.31	2142.44	2041.50	2076.39	2018.74
7.5	2489.28	2400.11	2200.65	2116.92	1939.63	1851.38	1791.94	1721.68	1725.89
10.0	2491.51	2253.50	2074.63	1853.83	1694.83	1592.96	1478.36	1444.64	1458.85
12.5	2438.78	2145.78	1874.36	1657.01	1458.42	1326.51	1225.63	1181.17	1188.39
15.0	2403.00	2040.37	1727.87	1476.18	1221.90	1119.14	1025.84	967.19	933.86
17.5	2330.65	1903.52	1554.54	1280.71	1087.08	930.39	867.71	811.70	807.91
20.0	2243.05	1777.82	1412.71	1121.22	938.87	808.28	767.12	730.15	724.97
22.5	2166.25	1658.26	1268.04	985.29	828.97	732.47	690.78	668.96	668.16
25.0	2053.17	1498.31	1121.37	873.28	746.67	705.98	675.94	674.13	662.28
27.5	1916.90	1389.03	1012.37	816.04	716.33	686.59	670.50	691.30	692.51
30.0	1830.42	1266.66	927.32	764.53	700.56	695.42	707.25	716.46	701.61
32.5	1737.75	1174.17	848.22	728.12	700.54	728.31	728.89	744.93	745.47
35.0	1607.46	1076.33	796.50	718.88	717.65	736.44	752.94	760.87	765.29
37.5	1498.31	984.06	762.44	700.37	716.71	740.30	763.22	767.90	776.58
40.0	1375.10	894.83	702.11	685.99	717.02	736.23	742.11	760.99	752.05
42.5	1248.17	805.00	664.24	659.59	691.67	721.50	728.17	716.96	725.03
45.0	1109.22	733.57	616.08	626.59	663.80	669.36	677.82	673.05	668.42
47.5	967.18	651.13	564.07	586.51	614.45	614.32	616.29	609.39	603.48
50.0	839.31	581.74	507.77	528.20	551.98	547.91	540.78	528.30	519.27
52.5	707.02	501.81	449.86	463.23	476.10	479.23	454.99	445.43	438.19
55.0	593.54	421.57	391.29	395.34	399.62	392.43	377.20	363.15	360.75
57.5	476.22	355.32	318.72	324.76	330.76	318.31	303.39	286.76	284.24
60.0	390.47	292.33	268.38	267.03	262.37	250.21	239.76	225.46	226.12
62.5	307.90	239.47	211.34	210.87	202.07	195.21	186.02	174.78	176.59
65.0	237.23	192.51	171.54	168.48	160.21	152.36	145.28	139.77	134.49
67.5	182.07	148.85	135.91	130.51	124.30	119.94	111.37	104.32	105.44
70.0	136.27	121.20	106.15	101.34	98.28	91.42	86.54	81.80	84.97
72.5	105.67	91.94	84.23	79.67	73.76	71.24	68.96	64.15	64.17
75.0	79.28	68.53	62.41	58.02	56.47	55.70	53.89	51.18	52.24
77.5	58.42	52.24	47.22	47.06	43.23	42.76	43.31	42.02	43.50
80.0	43.50	38.10	37.14	37.02	35.74	33.86	33.45	32.99	32.86

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CANDELA TABULATION - (Cont.)

82.5	29.92	26.99	25.56	25.67	25.32	26.05	26.03	26.62	26.27
85.0	16.23	16.78	15.55	16.52	17.57	16.43	17.22	17.32	20.00
87.5	4.46	4.72	4.19	4.47	4.81	5.53	5.58	5.41	6.54
90.0	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00
135.0	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01
137.5	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.01
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1060.93	N.A.	13.60
0-30	2463.15	N.A.	31.60
0-40	4377.05	N.A.	56.20
0-60	7258.76	N.A.	93.20
0-80	7763.98	N.A.	99.70
0-90	7785.93	N.A.	100.00
10-90	7526.27	N.A.	96.70
20-40	3316.12	N.A.	42.60
20-50	5139.01	N.A.	66.00
40-70	3271.55	N.A.	42.00
60-80	505.23	N.A.	6.50
70-80	115.38	N.A.	1.50
80-90	21.95	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.03	N.A.	0.00
0-180	7785.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	259.66
10-20	801.28
20-30	1402.22
30-40	1913.91
40-50	1822.89
50-60	1058.81
60-70	389.84
70-80	115.38
80-90	21.95
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.02
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

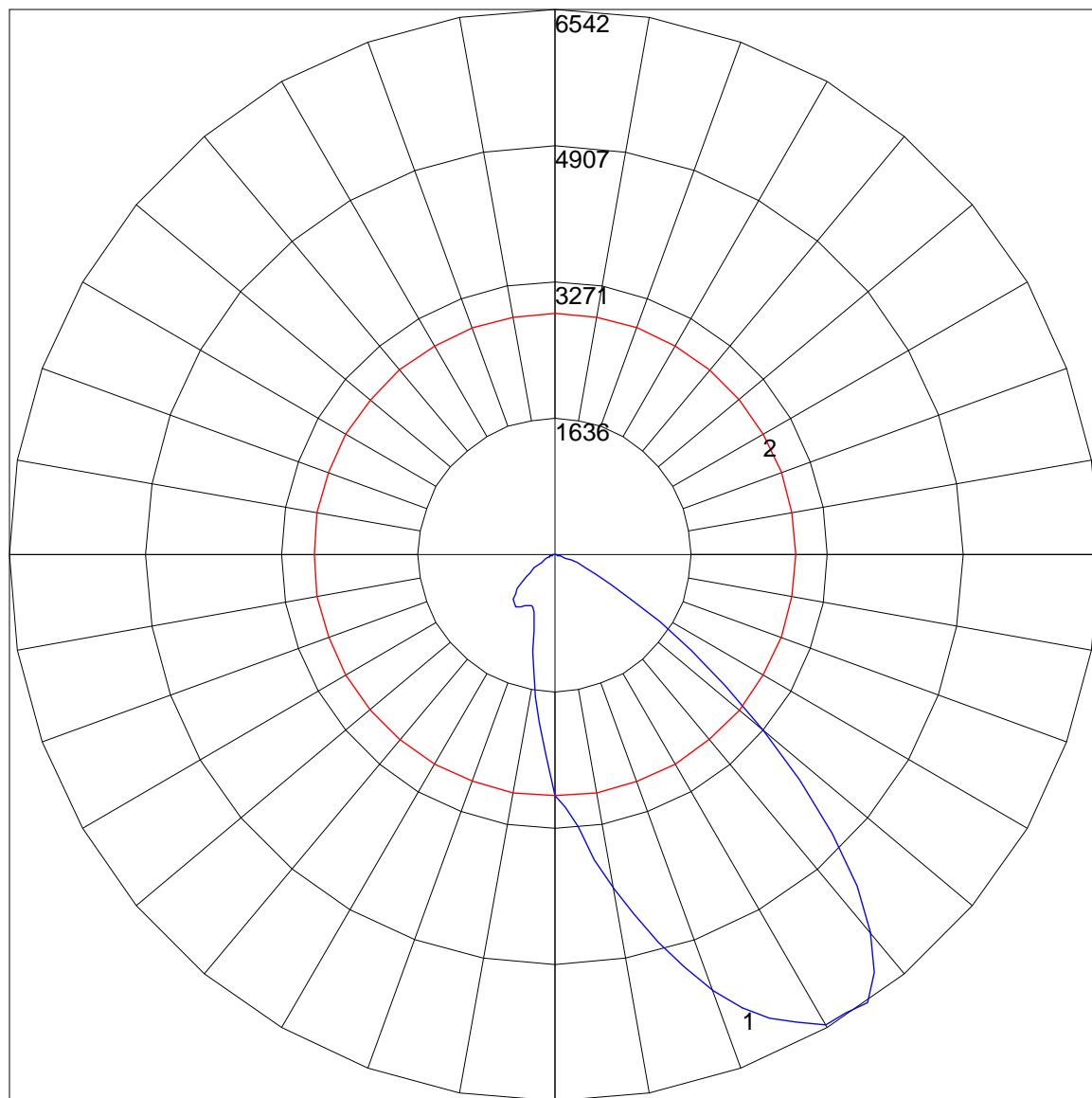
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : BL726LEDHTMOASYWT40120-277V_S.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77
3	95	86	78	73	92	84	77	72	81	76	71	79	74	70	76	72	69	67
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

POLAR GRAPH



Maximum Candela = 6542.43 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)