



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL726LEDHTHOASYWT30120-277V_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 10:16:42 2018

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BL726LEDHASYWT30120-277

[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	9689
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	90
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.08
Spacing Criterion (90-270)	1.38
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	62111	55843	24799
55	31136	29743	13590
65	10494	10161	5601
75	3319	2811	2024
85	542	446	537

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	3566.26	3566.26	3566.26	3566.26	3566.26	3566.26	3566.26	3566.26	3566.26	3566.26
2.5	3699.30	3689.97	3626.70	3719.88	3622.22	3599.58	3593.51	3435.10	3515.77	3387.89
5.0	3997.87	4014.57	3928.11	3891.15	3801.52	3751.60	3679.72	3559.03	3439.93	3369.93
7.5	4384.12	4268.57	4284.51	4175.71	4136.90	3992.79	3867.50	3640.59	3563.38	3377.76
10.0	4701.64	4669.67	4672.94	4582.80	4419.92	4273.37	4127.53	3902.07	3670.34	3433.92
12.5	5095.25	5109.49	5028.81	4916.93	4763.09	4562.29	4310.08	4082.52	3786.83	3457.90
15.0	5554.61	5440.58	5449.26	5283.62	5165.30	4881.64	4594.09	4238.80	3929.19	3517.23
17.5	5890.73	5877.63	5826.81	5752.31	5524.16	5178.21	4853.17	4463.20	3990.29	3542.33
20.0	6363.69	6361.10	6272.91	6113.34	5874.80	5568.10	5085.08	4646.62	4089.31	3559.07
22.5	6811.60	6736.23	6659.86	6551.15	6258.28	5815.69	5364.61	4770.20	4194.38	3536.50
25.0	7109.27	7064.65	7064.00	6875.69	6568.46	6082.06	5566.12	4901.72	4204.99	3515.78
27.5	7335.16	7350.31	7259.99	7164.69	6846.49	6354.56	5689.70	4963.67	4210.86	3451.74
30.0	7579.62	7575.43	7529.89	7382.82	7031.68	6518.60	5836.03	5029.11	4195.96	3369.01
32.5	7617.05	7599.49	7614.48	7481.35	7180.93	6618.39	5931.36	5078.43	4154.49	3230.30
35.0	7555.81	7611.21	7650.37	7542.76	7206.61	6716.80	5918.19	5043.39	4076.65	3126.47
37.5	7339.14	7414.77	7445.65	7387.24	7103.58	6565.02	5825.15	4922.41	3937.03	2945.13
40.0	6928.50	6952.98	7088.86	7061.90	6773.32	6320.24	5603.57	4706.57	3723.31	2732.00
42.5	6324.38	6371.77	6537.83	6539.19	6345.24	5912.05	5249.15	4403.44	3443.20	2512.91
45.0	5566.43	5651.04	5808.91	5889.61	5745.72	5402.85	4795.97	3983.29	3098.94	2235.79
47.5	4786.08	4911.68	5039.58	5129.60	5060.68	4781.57	4255.46	3539.63	2716.39	1958.27
50.0	4033.66	4096.41	4257.59	4354.12	4310.31	4114.16	3668.04	3030.08	2357.69	1659.31
52.5	3250.91	3322.19	3444.36	3531.84	3562.74	3402.91	3043.79	2500.85	1913.13	1389.02
55.0	2519.86	2570.32	2680.45	2774.65	2821.02	2696.01	2434.60	2028.78	1552.62	1108.31
57.5	1895.81	1957.90	2036.70	2116.19	2154.56	2090.69	1890.27	1566.71	1215.90	880.04
60.0	1420.82	1445.62	1513.80	1573.72	1590.50	1575.09	1432.49	1186.11	918.63	677.72
62.5	1035.12	1056.60	1105.30	1143.96	1168.32	1155.53	1053.46	879.86	678.31	513.20
65.0	732.25	760.51	790.95	825.85	852.37	831.46	758.44	640.66	510.20	394.68
67.5	530.02	537.33	561.26	584.38	599.02	598.48	541.95	460.57	370.53	299.23
70.0	373.01	380.45	394.94	406.57	416.45	415.78	384.35	324.67	265.88	214.92
72.5	266.71	264.05	282.24	285.45	289.17	290.66	265.36	231.10	191.80	156.89
75.0	187.56	183.94	191.01	197.68	200.71	195.35	183.15	165.36	137.39	115.88
77.5	129.48	128.87	132.57	136.27	135.82	133.86	127.03	115.18	99.99	87.26
80.0	85.67	87.09	85.59	88.23	91.61	87.45	85.47	76.90	65.20	60.09
82.5	53.88	47.17	51.25	51.13	54.20	52.96	50.38	45.27	43.53	40.10
85.0	22.50	22.36	23.14	23.61	24.20	25.62	24.14	25.29	23.39	22.71
87.5	1.71	2.40	2.50	2.84	3.73	4.81	5.76	5.54	4.96	5.13
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.07	0.00	0.01	0.00	0.00	0.02	0.00	0.00

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135.0	0.00	0.09	0.29	0.04	0.00	0.05	0.03	0.00	0.00	0.00
137.5	0.00	0.13	0.36	0.00	0.10	0.12	0.11	0.00	0.00	0.00
140.0	0.00	0.05	0.08	0.00	0.08	0.02	0.02	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.15	0.13	0.04	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.01	0.04	0.04	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
152.5	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.02	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	0.01	0.00	0.00	0.00
160.0	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.01
162.5	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.02	0.01	0.00
167.5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.01	0.00	0.00	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	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	3566.26	3566.26	3566.26	3566.26	3566.26	3566.26	3566.26	3566.26	3566.26
2.5	3345.45	3232.51	3166.01	3066.71	3144.67	3058.46	2983.89	2909.14	3157.59
5.0	3245.24	3107.80	2924.89	2895.66	2760.57	2774.72	2762.19	2639.15	2634.71
7.5	3189.48	3001.73	2873.04	2704.96	2565.98	2464.21	2446.58	2317.87	2295.56
10.0	3209.95	2957.67	2705.04	2475.51	2325.59	2224.27	2086.85	1999.09	1993.53
12.5	3130.47	2852.87	2554.25	2304.38	2095.14	1885.31	1802.59	1711.71	1720.14
15.0	3100.27	2708.57	2376.13	2066.03	1849.73	1647.55	1561.64	1462.30	1453.11
17.5	3058.22	2633.63	2213.56	1885.64	1634.36	1449.64	1332.08	1270.83	1255.17
20.0	3008.88	2483.92	2016.42	1688.73	1428.40	1280.50	1156.59	1118.10	1084.98
22.5	2906.39	2345.89	1875.59	1511.29	1285.26	1132.93	1059.77	1014.36	1003.75
25.0	2778.27	2173.06	1700.90	1349.57	1167.92	1028.39	982.72	947.94	942.75
27.5	2683.94	2014.80	1527.11	1229.27	1065.74	988.32	926.31	941.68	931.48
30.0	2536.67	1863.03	1381.98	1118.95	997.49	965.16	953.11	935.37	922.08
32.5	2388.22	1708.78	1273.40	1067.21	968.89	954.49	952.14	949.72	945.95
35.0	2234.41	1577.35	1176.22	991.51	950.82	949.53	950.23	940.69	946.85
37.5	2047.50	1411.83	1065.65	957.07	933.31	941.01	959.73	944.75	940.67
40.0	1876.95	1253.81	988.93	912.49	914.25	930.22	923.11	921.98	918.82
42.5	1689.04	1134.95	897.66	854.06	879.49	883.33	896.35	878.85	880.84
45.0	1494.88	1004.68	828.15	825.02	820.20	832.99	824.41	808.50	808.39
47.5	1297.94	896.54	740.15	736.84	758.86	759.38	755.65	735.95	731.98
50.0	1121.18	780.82	666.45	676.45	683.62	676.67	663.97	647.45	639.22
52.5	938.58	664.45	585.20	584.23	598.01	583.48	565.09	549.10	546.36
55.0	770.92	563.56	500.43	498.50	503.36	491.22	461.51	453.57	435.48
57.5	622.93	469.43	418.85	413.28	409.33	394.33	375.22	364.04	357.49
60.0	499.13	376.34	337.06	338.18	331.36	310.33	296.17	287.38	281.78
62.5	387.04	305.96	278.22	273.78	254.97	250.07	236.04	223.10	221.23
65.0	294.99	239.77	219.79	209.03	205.47	191.57	180.49	174.94	168.59
67.5	231.57	193.49	171.47	167.38	158.80	148.04	143.10	136.58	134.07
70.0	178.47	149.28	136.88	127.84	120.11	117.87	106.82	104.00	102.93
72.5	132.84	113.03	101.11	99.35	96.42	90.69	83.47	80.97	81.66
75.0	99.74	88.35	79.20	74.97	73.65	69.35	67.82	64.80	64.97
77.5	74.69	63.25	60.69	58.24	57.37	55.39	54.78	53.26	56.44
80.0	52.07	48.50	47.93	45.85	43.50	43.94	41.75	44.44	45.33

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CANDELA TABULATION - (Cont.)

82.5	37.97	34.36	33.60	31.80	32.90	32.05	34.40	33.16	34.01
85.0	22.02	20.50	20.18	19.99	20.61	22.92	23.58	22.17	23.54
87.5	5.40	4.70	5.85	6.89	6.30	6.42	6.67	6.49	7.95
90.0	0.00	0.00	0.00	0.01	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	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
135.0	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00
137.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.02
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
147.5	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
152.5	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00
155.0	0.01	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	0.01	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	0.00	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	0.03	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	0.00	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	0.01	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	1315.96	N.A.	13.60
0-30	3062.36	N.A.	31.60
0-40	5430.38	N.A.	56.00
0-60	9016.77	N.A.	93.10
0-80	9661.06	N.A.	99.70
0-90	9688.72	N.A.	100.00
10-90	9367.99	N.A.	96.70
20-40	4114.42	N.A.	42.50
20-50	6369.52	N.A.	65.70
40-70	4083.96	N.A.	42.20
60-80	644.28	N.A.	6.60
70-80	146.71	N.A.	1.50
80-90	27.66	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	0.02	N.A.	0.00
90-180	0.02	N.A.	0.00
110-180	0.02	N.A.	0.00
0-180	9688.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	320.72
10-20	995.24
20-30	1746.4
30-40	2368.03
40-50	2255.1
50-60	1331.29
60-70	497.57
70-80	146.71
80-90	27.66
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

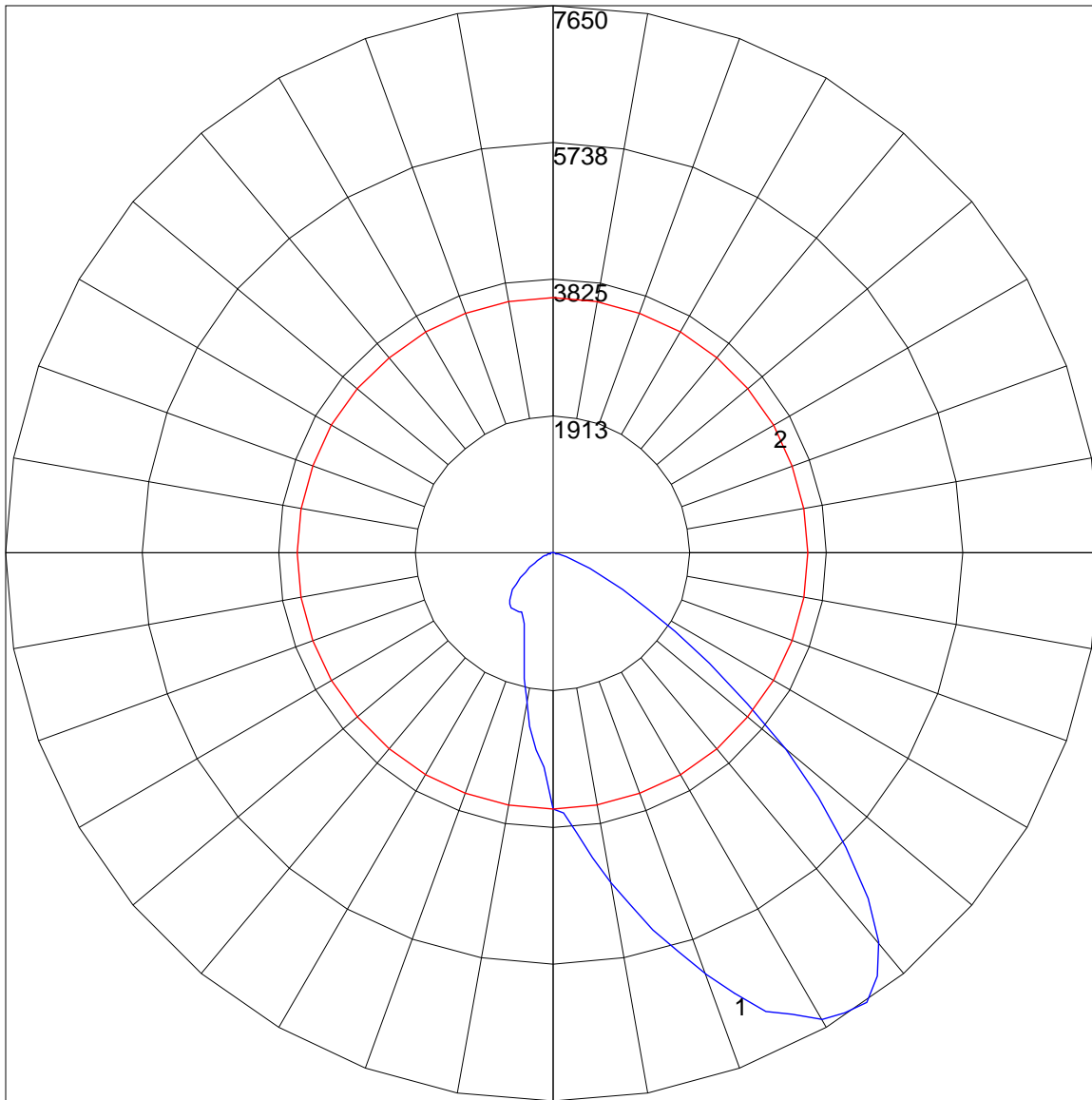
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BL726LEDHTHOASYWT30120-277V_S.IES

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	80	84	81	79	77
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	80	69	61	55	79	68	60	54	66	59	54	64	58	53	62	57	53	51
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45
7	69	57	48	43	67	56	48	42	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	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

POLAR GRAPH



Maximum Candela = 7650.37 Located At Horizontal Angle = 20, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)