

# PHILIPS

# PHILIPS

# Day-Brite

# CFI

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APX12LL40-UNV-M-LFP.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] FO33958.PSO  
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY  
[ISSUEDATE] 12/22/14  
[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI  
[LUMCAT] APX12LL40-UNV-M-LFP  
[LUMINAIRE] PHILIPS APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER MEDIUM OPTICS NO RESISTOR DP-FR50 LENS  
[LAMP] LED. LUMINAIRE OUTPUT = 11538 LMS  
[TESTDATE] 12/22/14

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11538
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	95.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.27 ft
Luminous Height	0.50 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5219	4895	4574
55	3158	2669	2390
65	2091	1540	1421
75	1409	960	961
85	602	532	642

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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>	6659.03	6659.03	6659.03	6659.03	6659.03	6659.03	6659.03	6659.03	6659.03	6659.03
<b>2.5</b>	6639.84	6641.56	6660.66	6668.63	6675.99	6668.63	6660.66	6641.56	6639.84	6641.56
<b>5.0</b>	6623.94	6626.47	6659.47	6682.09	6686.61	6682.09	6659.47	6626.47	6623.94	6626.47
<b>7.5</b>	6591.89	6598.31	6650.11	6687.01	6702.22	6687.01	6650.11	6598.31	6591.89	6598.31
<b>10.0</b>	6533.02	6554.85	6625.18	6693.94	6707.84	6693.94	6625.18	6554.85	6533.02	6554.85
<b>12.5</b>	6439.50	6483.78	6584.67	6668.60	6696.23	6668.60	6584.67	6483.78	6439.50	6483.78
<b>15.0</b>	6301.58	6371.43	6510.47	6620.56	6647.24	6620.56	6510.47	6371.43	6301.58	6371.43
<b>17.5</b>	6116.75	6211.65	6389.27	6530.06	6566.52	6530.06	6389.27	6211.65	6116.75	6211.65
<b>20.0</b>	5879.70	5998.62	6219.29	6386.40	6430.84	6386.40	6219.29	5998.62	5879.70	5998.62
<b>22.5</b>	5585.86	5734.35	5990.57	6184.58	6226.31	6184.58	5990.57	5734.35	5585.86	5734.35
<b>25.0</b>	5256.11	5415.98	5704.77	5908.98	5944.89	5908.98	5704.77	5415.98	5256.11	5415.98
<b>27.5</b>	4890.12	5064.83	5364.78	5559.78	5588.52	5559.78	5364.78	5064.83	4890.12	5064.83
<b>30.0</b>	4500.19	4687.01	4987.94	5151.08	5161.32	5151.08	4987.94	4687.01	4500.19	4687.01
<b>32.5</b>	4089.10	4282.43	4570.73	4693.53	4695.73	4693.53	4570.73	4282.43	4089.10	4282.43
<b>35.0</b>	3668.55	3865.96	4123.84	4206.47	4197.80	4206.47	4123.84	3865.96	3668.55	3865.96
<b>37.5</b>	3246.58	3441.96	3670.89	3718.61	3688.73	3718.61	3670.89	3441.96	3246.58	3441.96
<b>40.0</b>	2834.73	3026.56	3227.07	3234.55	3193.92	3234.55	3227.07	3026.56	2834.73	3026.56
<b>42.5</b>	2446.38	2626.05	2793.76	2766.59	2722.92	2766.59	2793.76	2626.05	2446.38	2626.05
<b>45.0</b>	2087.74	2251.87	2386.23	2332.12	2283.56	2332.12	2386.23	2251.87	2087.74	2251.87
<b>47.5</b>	1768.20	1907.73	2018.64	1950.75	1902.34	1950.75	2018.64	1907.73	1768.20	1907.73
<b>50.0</b>	1492.90	1603.88	1692.56	1622.49	1581.11	1622.49	1692.56	1603.88	1492.90	1603.88
<b>52.5</b>	1263.34	1350.05	1410.70	1344.86	1308.99	1344.86	1410.70	1350.05	1263.34	1350.05
<b>55.0</b>	1070.38	1134.46	1175.11	1115.06	1085.07	1115.06	1134.46	1070.38	1070.38	1134.46
<b>57.5</b>	908.39	953.39	982.29	930.82	907.37	930.82	982.29	953.39	908.39	953.39
<b>60.0</b>	771.57	801.75	823.14	784.65	767.86	784.65	823.14	801.75	771.57	801.75
<b>62.5</b>	657.25	676.36	692.75	666.83	654.67	666.83	692.75	676.36	657.25	676.36
<b>65.0</b>	559.68	571.11	584.90	570.28	561.28	570.28	584.90	571.11	559.68	571.11
<b>67.5</b>	473.57	480.98	495.08	489.18	483.60	489.18	495.08	480.98	473.57	480.98
<b>70.0</b>	396.91	401.96	419.04	421.05	417.78	421.05	419.04	401.96	396.91	401.96
<b>72.5</b>	327.81	332.05	353.67	362.74	361.08	362.74	353.67	332.05	327.81	332.05
<b>75.0</b>	265.03	269.85	295.43	310.13	311.10	310.13	295.43	269.85	265.03	269.85
<b>77.5</b>	205.55	212.29	242.82	262.60	266.58	262.60	242.82	212.29	205.55	212.29
<b>80.0</b>	150.75	160.40	195.97	220.10	226.09	220.10	195.97	160.40	150.75	160.40
<b>82.5</b>	102.17	114.92	154.81	182.67	189.31	182.67	154.81	114.92	102.17	114.92
<b>85.0</b>	62.02	78.07	120.28	149.24	156.00	149.24	120.28	78.07	62.02	78.07
<b>87.5</b>	33.77	53.02	95.11	122.87	129.27	122.87	95.11	53.02	33.77	53.02
<b>90.0</b>	22.73	37.86	75.28	100.22	106.19	100.22	75.28	37.86	22.73	37.86
<b>92.5</b>	21.53	30.92	60.12	81.33	86.70	81.33	60.12	30.92	21.53	30.92
<b>95.0</b>	21.34	28.76	50.32	67.33	71.88	67.33	50.32	28.76	21.34	28.76
<b>97.5</b>	21.19	27.06	45.19	58.50	62.12	58.50	45.19	27.06	21.19	27.06
<b>100.0</b>	20.97	25.47	42.18	53.94	57.05	53.94	42.18	25.47	20.97	25.47
<b>102.5</b>	20.26	23.84	39.87	51.93	55.10	51.93	39.87	23.84	20.26	23.84
<b>105.0</b>	19.11	22.27	38.16	50.66	54.38	50.66	38.16	22.27	19.11	22.27
<b>107.5</b>	17.79	20.65	36.60	49.31	53.50	49.31	36.60	20.65	17.79	20.65
<b>110.0</b>	16.26	18.85	34.83	47.85	52.23	47.85	34.83	18.85	16.26	18.85
<b>112.5</b>	14.46	16.92	32.87	46.02	50.58	46.02	32.87	16.92	14.46	16.92
<b>115.0</b>	12.63	14.74	30.67	43.74	48.38	43.74	30.67	14.74	12.63	14.74
<b>117.5</b>	10.92	12.68	28.50	41.35	45.98	41.35	28.50	12.68	10.92	12.68
<b>120.0</b>	9.30	10.63	26.13	38.87	43.53	38.87	26.13	10.63	9.30	10.63
<b>122.5</b>	7.87	8.70	23.73	36.33	40.68	36.33	23.73	8.70	7.87	8.70
<b>125.0</b>	6.55	6.88	21.35	33.44	37.90	33.44	21.35	6.88	6.55	6.88
<b>127.5</b>	5.41	5.12	18.69	30.75	35.44	30.75	18.69	5.12	5.41	5.12
<b>130.0</b>	4.44	3.75	16.14	28.13	32.49	28.13	16.14	3.75	4.44	3.75
<b>132.5</b>	3.65	2.93	13.61	25.21	29.40	25.21	13.61	2.93	3.65	2.93

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**CANDELA TABULATION - (Cont.)**

135.0	2.94	2.32	11.04	22.26	26.28	22.26	11.04	2.32	2.94	2.32
137.5	2.30	1.75	8.58	19.22	23.06	19.22	8.58	1.75	2.30	1.75
140.0	1.75	1.28	6.30	16.16	19.69	16.16	6.30	1.28	1.75	1.28
142.5	1.27	0.92	4.24	13.16	16.41	13.16	4.24	0.92	1.27	0.92
145.0	0.84	0.58	2.51	10.25	13.24	10.25	2.51	0.58	0.84	0.58
147.5	0.55	0.23	1.22	7.61	10.22	7.61	1.22	0.23	0.55	0.23
150.0	0.36	0.14	0.32	5.25	7.47	5.25	0.32	0.14	0.36	0.14
152.5	0.09	0.00	0.29	3.24	4.99	3.24	0.29	0.00	0.09	0.00
155.0	0.13	0.06	0.35	1.51	3.00	1.51	0.35	0.06	0.13	0.06
157.5	0.24	0.26	0.45	0.83	1.58	0.83	0.45	0.26	0.24	0.26
160.0	0.50	0.48	0.60	0.85	1.16	0.85	0.60	0.48	0.50	0.48
162.5	0.59	0.57	0.71	0.90	1.17	0.90	0.71	0.57	0.59	0.57
165.0	0.69	0.69	0.77	0.92	1.09	0.92	0.77	0.69	0.69	0.69
167.5	0.72	0.72	0.77	1.01	1.12	1.01	0.77	0.72	0.72	0.72
170.0	0.80	0.81	0.85	1.03	1.16	1.03	0.85	0.81	0.80	0.81
172.5	1.05	1.03	1.03	1.23	1.28	1.23	1.03	1.03	1.05	1.03
175.0	1.23	1.24	1.17	1.31	1.43	1.31	1.17	1.24	1.23	1.24
177.5	1.33	1.41	1.26	1.42	1.53	1.42	1.26	1.41	1.33	1.41
180.0	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35

**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	6659.03	6659.03	6659.03	6659.03	6659.03	6659.03	6659.03
2.5	6660.66	6668.63	6675.99	6668.63	6660.66	6641.56	6639.84
5.0	6659.47	6682.09	6686.61	6682.09	6659.47	6626.47	6623.94
7.5	6650.11	6687.01	6702.22	6687.01	6650.11	6598.31	6591.89
10.0	6625.18	6693.94	6707.84	6693.94	6625.18	6554.85	6533.02
12.5	6584.67	6668.60	6696.23	6668.60	6584.67	6483.78	6439.50
15.0	6510.47	6620.56	6647.24	6620.56	6510.47	6371.43	6301.58
17.5	6389.27	6530.06	6566.52	6530.06	6389.27	6211.65	6116.75
20.0	6219.29	6386.40	6430.84	6386.40	6219.29	5998.62	5879.70
22.5	5990.57	6184.58	6226.31	6184.58	5990.57	5734.35	5585.86
25.0	5704.77	5908.98	5944.89	5908.98	5704.77	5415.98	5256.11
27.5	5364.78	5559.78	5588.52	5559.78	5364.78	5064.83	4890.12
30.0	4987.94	5151.08	5161.32	5151.08	4987.94	4687.01	4500.19
32.5	4570.73	4693.53	4695.73	4693.53	4570.73	4282.43	4089.10
35.0	4123.84	4206.47	4197.80	4206.47	4123.84	3865.96	3668.55
37.5	3670.89	3718.61	3688.73	3718.61	3670.89	3441.96	3246.58
40.0	3227.07	3234.55	3193.92	3234.55	3227.07	3026.56	2834.73
42.5	2793.76	2766.59	2722.92	2766.59	2793.76	2626.05	2446.38
45.0	2386.23	2332.12	2283.56	2332.12	2386.23	2251.87	2087.74
47.5	2018.64	1950.75	1902.34	1950.75	2018.64	1907.73	1768.20
50.0	1692.56	1622.49	1581.11	1622.49	1692.56	1603.88	1492.90
52.5	1410.70	1344.86	1308.99	1344.86	1410.70	1350.05	1263.34
55.0	1175.11	1115.06	1085.07	1115.06	1175.11	1134.46	1070.38
57.5	982.29	930.82	907.37	930.82	982.29	953.39	908.39
60.0	823.14	784.65	767.86	784.65	823.14	801.75	771.57
62.5	692.75	666.83	654.67	666.83	692.75	676.36	657.25
65.0	584.90	570.28	561.28	570.28	584.90	571.11	559.68
67.5	495.08	489.18	483.60	489.18	495.08	480.98	473.57
70.0	419.04	421.05	417.78	421.05	419.04	401.96	396.91
72.5	353.67	362.74	361.08	362.74	353.67	332.05	327.81
75.0	295.43	310.13	311.10	310.13	295.43	269.85	265.03
77.5	242.82	262.60	266.58	262.60	242.82	212.29	205.55
80.0	195.97	220.10	226.09	220.10	195.97	160.40	150.75

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	154.81	182.67	189.31	182.67	154.81	114.92	102.17
<b>85.0</b>	120.28	149.24	156.00	149.24	120.28	78.07	62.02
<b>87.5</b>	95.11	122.87	129.27	122.87	95.11	53.02	33.77
<b>90.0</b>	75.28	100.22	106.19	100.22	75.28	37.86	22.73
<b>92.5</b>	60.12	81.33	86.70	81.33	60.12	30.92	21.53
<b>95.0</b>	50.32	67.33	71.88	67.33	50.32	28.76	21.34
<b>97.5</b>	45.19	58.50	62.12	58.50	45.19	27.06	21.19
<b>100.0</b>	42.18	53.94	57.05	53.94	42.18	25.47	20.97
<b>102.5</b>	39.87	51.93	55.10	51.93	39.87	23.84	20.26
<b>105.0</b>	38.16	50.66	54.38	50.66	38.16	22.27	19.11
<b>107.5</b>	36.60	49.31	53.50	49.31	36.60	20.65	17.79
<b>110.0</b>	34.83	47.85	52.23	47.85	34.83	18.85	16.26
<b>112.5</b>	32.87	46.02	50.58	46.02	32.87	16.92	14.46
<b>115.0</b>	30.67	43.74	48.38	43.74	30.67	14.74	12.63
<b>117.5</b>	28.50	41.35	45.98	41.35	28.50	12.68	10.92
<b>120.0</b>	26.13	38.87	43.53	38.87	26.13	10.63	9.30
<b>122.5</b>	23.73	36.33	40.68	36.33	23.73	8.70	7.87
<b>125.0</b>	21.35	33.44	37.90	33.44	21.35	6.88	6.55
<b>127.5</b>	18.69	30.75	35.44	30.75	18.69	5.12	5.41
<b>130.0</b>	16.14	28.13	32.49	28.13	16.14	3.75	4.44
<b>132.5</b>	13.61	25.21	29.40	25.21	13.61	2.93	3.65
<b>135.0</b>	11.04	22.26	26.28	22.26	11.04	2.32	2.94
<b>137.5</b>	8.58	19.22	23.06	19.22	8.58	1.75	2.30
<b>140.0</b>	6.30	16.16	19.69	16.16	6.30	1.28	1.75
<b>142.5</b>	4.24	13.16	16.41	13.16	4.24	0.92	1.27
<b>145.0</b>	2.51	10.25	13.24	10.25	2.51	0.58	0.84
<b>147.5</b>	1.22	7.61	10.22	7.61	1.22	0.23	0.55
<b>150.0</b>	0.32	5.25	7.47	5.25	0.32	0.14	0.36
<b>152.5</b>	0.29	3.24	4.99	3.24	0.29	0.00	0.09
<b>155.0</b>	0.35	1.51	3.00	1.51	0.35	0.06	0.13
<b>157.5</b>	0.45	0.83	1.58	0.83	0.45	0.26	0.24
<b>160.0</b>	0.60	0.85	1.16	0.85	0.60	0.48	0.50
<b>162.5</b>	0.71	0.90	1.17	0.90	0.71	0.57	0.59
<b>165.0</b>	0.77	0.92	1.09	0.92	0.77	0.69	0.69
<b>167.5</b>	0.77	1.01	1.12	1.01	0.77	0.72	0.72
<b>170.0</b>	0.85	1.03	1.16	1.03	0.85	0.81	0.80
<b>172.5</b>	1.03	1.23	1.28	1.23	1.03	1.03	1.05
<b>175.0</b>	1.17	1.31	1.43	1.31	1.17	1.24	1.23
<b>177.5</b>	1.26	1.42	1.53	1.42	1.26	1.41	1.33
<b>180.0</b>	1.35	1.35	1.35	1.35	1.35	1.35	1.35

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2459.75	N.A.	21.30
0-30	5042.61	N.A.	43.70
0-40	7550.92	N.A.	65.40
0-60	10361.07	N.A.	89.80
0-80	11248.95	N.A.	97.50
0-90	11380.31	N.A.	98.60
10-90	10745.98	N.A.	93.10
20-40	5091.17	N.A.	44.10
20-50	6871.76	N.A.	59.60
40-70	3386.98	N.A.	29.40
60-80	887.89	N.A.	7.70
70-80	311.05	N.A.	2.70
80-90	131.35	N.A.	1.10
90-110	94.48	N.A.	0.80
90-120	124.18	N.A.	1.10
90-130	143.11	N.A.	1.20
90-150	156.31	N.A.	1.40
90-180	157.20	N.A.	1.40
110-180	62.71	N.A.	0.50
0-180	11537.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	634.33
10-20	1825.42
20-30	2582.86
30-40	2508.31
40-50	1780.58
50-60	1029.56
60-70	576.84
70-80	311.05
80-90	131.35
90-100	55.35
100-110	39.14
110-120	29.70
120-130	18.93
130-140	9.82
140-150	3.38
150-160	0.55
160-170	0.23
170-180	0.11

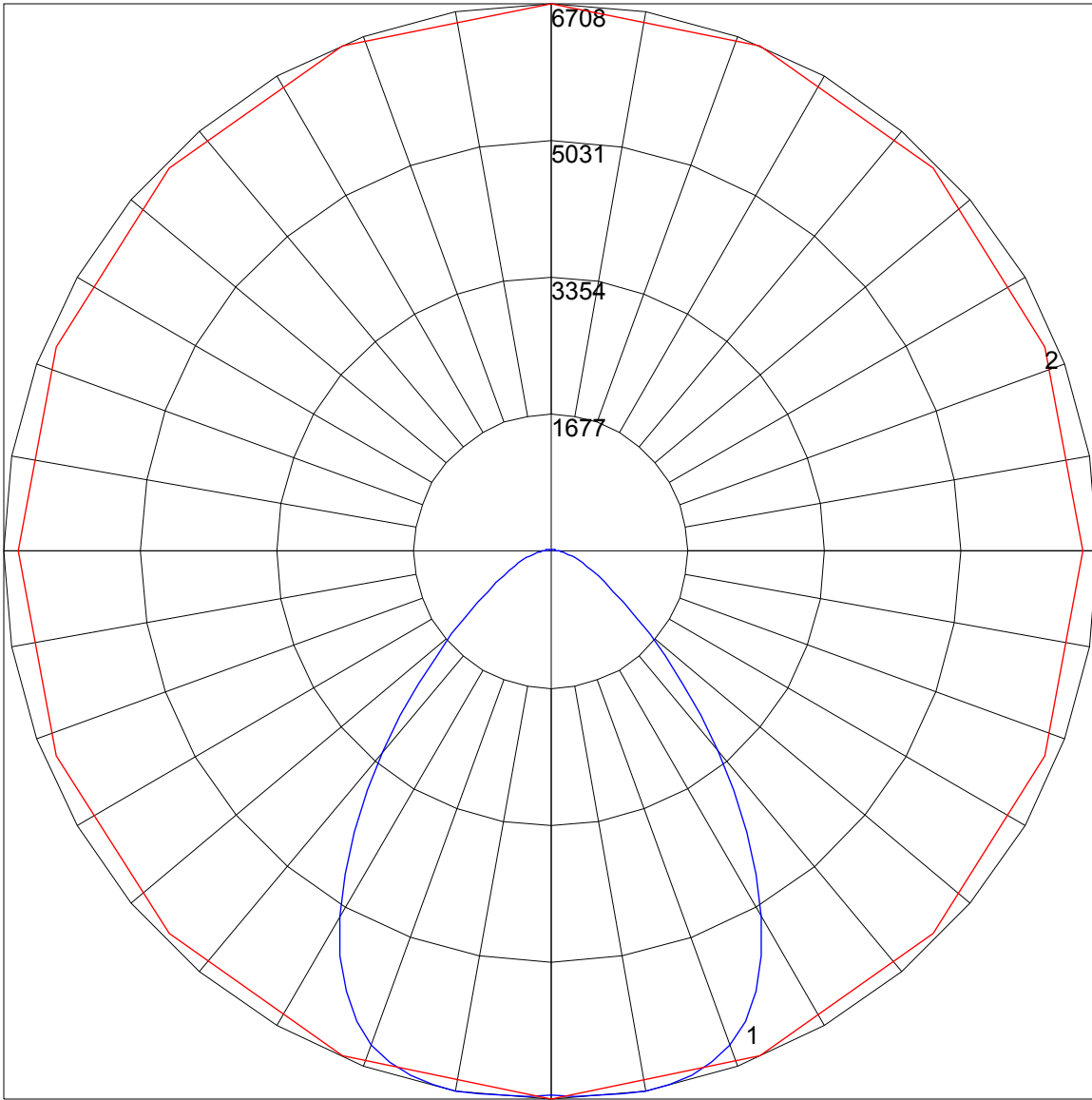
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APX12LL40-UNV-M-LFP.IES**

**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	110	110	110	105	105	105	101	101	101	99
1	111	107	104	100	108	105	101	99	100	98	95	96	94	92	92	91	89	87
2	103	96	91	86	100	94	89	85	91	87	83	87	84	81	84	81	79	77
3	96	87	80	75	93	85	79	74	82	77	73	80	75	72	77	73	70	68
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	66	63	61
5	83	72	65	59	81	71	64	59	69	63	58	67	61	57	65	60	57	55
6	78	66	59	53	76	65	58	53	63	57	52	62	56	52	60	55	51	49
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	40	48	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	40	36	45	40	36	35

POLAR GRAPH



Maximum Candela = 6707.84 Located At Horizontal Angle = 90, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)