

# Day-Brite



by Signify

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX12LL40-UNV-A.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] FO33971.PSO  
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY  
[ISSUE DATE] 12/23/14  
[MANUFAC] SIGNIFY DAY-BRITE - CFI  
[LUMCAT] APX12LL40-UNV-A  
[LUMINAIRE] APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER AISLE OPTICS NO RESISTOR DIRA LENS  
[LAMP] LED. LUMINAIRE OUTPUT = 11804 LMS  
[TEST DATE] 12/23/14

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11804
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	95.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.72
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	18688	2789	2865
55	2476	1633	909
65	1612	601	818
75	1106	643	676
85	605	530	791

**IES INDOOR REPORT**  
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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>	11804.61	11804.61	11804.61	11804.61	11804.61	11804.61	11804.61	11804.61	11804.61	11804.61
<b>2.5</b>	11866.21	11822.26	11724.46	11569.51	11420.31	11569.51	11724.46	11822.26	11866.21	11822.26
<b>5.0</b>	11901.66	11732.91	11382.26	10994.71	10753.18	10994.71	11382.26	11732.91	11901.66	11732.91
<b>7.5</b>	11955.31	11607.11	10818.51	10083.71	9764.03	10083.71	10818.51	11607.11	11955.31	11607.11
<b>10.0</b>	12028.01	11435.41	10065.74	8967.55	8614.65	8967.55	10065.74	11435.41	12028.01	11435.41
<b>12.5</b>	12104.26	11196.81	9187.38	7761.09	7377.09	7761.09	9187.38	11196.81	12104.26	11196.81
<b>15.0</b>	12211.91	10878.81	8219.10	6620.52	6201.96	6620.52	8219.10	10878.81	12211.91	10878.81
<b>17.5</b>	12329.86	10486.36	7224.55	5577.32	5197.45	5577.32	7224.55	10486.36	12329.86	10486.36
<b>20.0</b>	12471.76	10018.92	6254.00	4675.65	4339.05	4675.65	6254.00	10018.92	12471.76	10018.92
<b>22.5</b>	12582.41	9434.76	5342.79	3919.29	3632.84	3919.29	5342.79	9434.76	12582.41	9434.76
<b>25.0</b>	12648.81	8768.90	4515.22	3313.89	3103.82	3313.89	4515.22	8768.90	12648.81	8768.90
<b>27.5</b>	12604.46	7982.42	3769.45	2837.19	2695.05	2837.19	3769.45	7982.42	12604.46	7982.42
<b>30.0</b>	12403.86	7082.87	3135.93	2476.01	2381.37	2476.01	3135.93	7082.87	12403.86	7082.87
<b>32.5</b>	12005.16	6087.41	2633.22	2203.86	2155.67	2203.86	2633.22	6087.41	12005.16	6087.41
<b>35.0</b>	11349.31	5020.71	2241.08	1996.90	1984.20	1996.90	2241.08	5020.71	11349.31	5020.71
<b>37.5</b>	10490.76	3909.08	1939.21	1828.42	1833.66	1828.42	1939.21	3909.08	10490.76	3909.08
<b>40.0</b>	9590.20	2802.59	1711.78	1679.84	1683.50	1679.84	1711.78	2802.59	9590.20	2802.59
<b>42.5</b>	8699.91	1958.58	1522.33	1540.31	1566.42	1540.31	1522.33	1958.58	8699.91	1958.58
<b>45.0</b>	7475.25	1442.99	1359.45	1409.58	1430.58	1409.58	1359.45	1442.99	7475.25	1442.99
<b>47.5</b>	5550.81	1143.64	1208.65	1267.09	1252.29	1267.09	1208.65	1143.64	5550.81	1143.64
<b>50.0</b>	3178.61	956.66	1061.90	1084.41	1036.76	1084.41	1061.90	956.66	3178.61	956.66
<b>52.5</b>	1512.14	798.73	895.43	852.20	688.57	852.20	895.43	798.73	1512.14	798.73
<b>55.0</b>	839.39	674.39	718.93	494.23	412.49	494.23	718.93	674.39	839.39	674.39
<b>57.5</b>	654.73	552.16	518.92	321.82	337.65	321.82	518.92	552.16	654.73	552.16
<b>60.0</b>	557.07	453.34	354.50	295.39	450.55	295.39	354.50	453.34	557.07	453.34
<b>62.5</b>	488.28	394.33	268.32	345.61	401.78	345.61	268.32	394.33	488.28	394.33
<b>65.0</b>	431.48	364.66	228.09	298.36	322.97	298.36	228.09	364.66	431.48	364.66
<b>67.5</b>	375.02	332.62	212.64	269.06	308.29	269.06	212.64	332.62	375.02	332.62
<b>70.0</b>	303.13	297.55	209.90	254.53	290.13	254.53	209.90	297.55	303.13	297.55
<b>72.5</b>	248.29	245.55	214.46	229.55	264.81	229.55	214.46	245.55	248.29	245.55
<b>75.0</b>	208.06	184.30	197.83	199.53	219.04	199.53	184.30	208.06	208.06	184.30
<b>77.5</b>	162.56	141.29	180.62	153.08	178.71	153.08	180.62	141.29	162.56	141.29
<b>80.0</b>	121.71	124.09	133.41	142.86	184.10	142.86	133.41	124.09	121.71	124.09
<b>82.5</b>	88.75	102.77	119.56	164.10	193.39	164.10	119.56	102.77	88.75	102.77
<b>85.0</b>	62.30	95.94	119.96	160.48	192.04	160.48	119.96	95.94	62.30	95.94
<b>87.5</b>	39.92	91.12	133.09	158.38	189.06	158.38	133.09	91.12	39.92	91.12
<b>90.0</b>	18.22	72.43	102.62	122.78	137.50	122.78	102.62	72.43	18.22	72.43
<b>92.5</b>	13.86	55.01	56.79	61.33	70.31	61.33	56.79	55.01	13.86	55.01
<b>95.0</b>	18.45	31.68	20.50	24.74	31.18	24.74	20.50	31.68	18.45	31.68
<b>97.5</b>	27.47	14.71	15.23	20.78	24.73	20.78	15.23	14.71	27.47	14.71
<b>100.0</b>	28.04	13.49	14.47	18.30	21.77	18.30	14.47	13.49	28.04	13.49
<b>102.5</b>	26.50	13.08	13.86	17.44	19.87	17.44	13.86	13.08	26.50	13.08
<b>105.0</b>	22.49	14.28	13.28	16.79	19.18	16.79	13.28	14.28	22.49	14.28
<b>107.5</b>	17.74	15.16	11.69	15.71	17.83	15.71	11.69	15.16	17.74	15.16
<b>110.0</b>	14.22	13.20	10.56	13.82	16.23	13.82	10.56	13.20	14.22	13.20
<b>112.5</b>	11.79	10.85	9.92	11.92	14.20	11.92	9.92	10.85	11.79	10.85
<b>115.0</b>	9.79	8.77	9.52	10.82	12.50	10.82	9.52	8.77	9.79	8.77
<b>117.5</b>	8.13	7.78	8.72	10.35	11.67	10.35	8.72	7.78	8.13	7.78
<b>120.0</b>	7.07	7.97	7.48	9.67	11.27	9.67	7.48	7.97	7.07	7.97
<b>122.5</b>	6.37	6.83	6.52	8.17	9.83	8.17	6.52	6.83	6.37	6.83
<b>125.0</b>	6.25	5.18	6.55	6.67	8.08	6.67	6.55	5.18	6.25	5.18
<b>127.5</b>	6.59	4.27	9.72	5.75	6.84	5.75	9.72	4.27	6.59	4.27
<b>130.0</b>	6.69	3.92	11.32	5.90	6.02	5.90	11.32	3.92	6.69	3.92
<b>132.5</b>	6.12	3.92	6.85	9.60	7.07	9.60	6.85	3.92	6.12	3.92

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**CANDELA TABULATION - (Cont.)**

135.0	4.98	3.52	3.90	15.20	13.05	15.20	3.90	3.52	4.98	3.52
137.5	3.80	2.87	2.27	10.67	19.41	10.67	2.27	2.87	3.80	2.87
140.0	2.58	2.37	1.46	4.78	9.38	4.78	1.46	2.37	2.58	2.37
142.5	1.67	1.90	0.98	2.68	4.06	2.68	0.98	1.90	1.67	1.90
145.0	1.00	1.47	0.63	1.85	2.46	1.85	0.63	1.47	1.00	1.47
147.5	0.63	1.16	0.37	1.35	1.79	1.35	0.37	1.16	0.63	1.16
150.0	0.27	0.82	0.19	0.99	1.31	0.99	0.19	0.82	0.27	0.82
152.5	0.06	0.58	0.29	0.76	0.95	0.76	0.29	0.58	0.06	0.58
155.0	0.00	0.53	0.53	0.51	0.68	0.51	0.53	0.53	0.00	0.53
157.5	0.06	0.56	0.65	0.26	0.37	0.26	0.65	0.56	0.06	0.56
160.0	0.18	0.61	0.70	0.51	0.36	0.51	0.70	0.61	0.18	0.61
162.5	0.29	0.58	0.77	0.73	0.64	0.73	0.77	0.58	0.29	0.58
165.0	0.34	0.64	0.72	0.88	0.79	0.88	0.72	0.64	0.34	0.64
167.5	0.33	0.43	0.62	0.85	0.92	0.85	0.62	0.43	0.33	0.43
170.0	0.29	0.48	0.58	0.79	0.92	0.79	0.58	0.48	0.29	0.48
172.5	0.50	0.63	0.69	0.81	1.07	0.81	0.69	0.63	0.50	0.63
175.0	0.65	0.79	0.82	1.01	1.14	1.01	0.82	0.79	0.65	0.79
177.5	0.80	0.90	0.68	0.97	1.13	0.97	0.68	0.90	0.80	0.90
180.0	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83

**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	11804.61	11804.61	11804.61	11804.61	11804.61	11804.61	11804.61
2.5	11724.46	11569.51	11420.31	11569.51	11724.46	11822.26	11866.21
5.0	11382.26	10994.71	10753.18	10994.71	11382.26	11732.91	11901.66
7.5	10818.51	10083.71	9764.03	10083.71	10818.51	11607.11	11955.31
10.0	10065.74	8967.55	8614.65	8967.55	10065.74	11435.41	12028.01
12.5	9187.38	7761.09	7377.09	7761.09	9187.38	11196.81	12104.26
15.0	8219.10	6620.52	6201.96	6620.52	8219.10	10878.81	12211.91
17.5	7224.55	5577.32	5197.45	5577.32	7224.55	10486.36	12329.86
20.0	6254.00	4675.65	4339.05	4675.65	6254.00	10018.92	12471.76
22.5	5342.79	3919.29	3632.84	3919.29	5342.79	9434.76	12582.41
25.0	4515.22	3313.89	3103.82	3313.89	4515.22	8768.90	12648.81
27.5	3769.45	2837.19	2695.05	2837.19	3769.45	7982.42	12604.46
30.0	3135.93	2476.01	2381.37	2476.01	3135.93	7082.87	12403.86
32.5	2633.22	2203.86	2155.67	2203.86	2633.22	6087.41	12005.16
35.0	2241.08	1996.90	1984.20	1996.90	2241.08	5020.71	11349.31
37.5	1939.21	1828.42	1833.66	1828.42	1939.21	3909.08	10490.76
40.0	1711.78	1679.84	1683.50	1679.84	1711.78	2802.59	9590.20
42.5	1522.33	1540.31	1566.42	1540.31	1522.33	1958.58	8699.91
45.0	1359.45	1409.58	1430.58	1409.58	1359.45	1442.99	7475.25
47.5	1208.65	1267.09	1252.29	1267.09	1208.65	1143.64	5550.81
50.0	1061.90	1084.41	1036.76	1084.41	1061.90	956.66	3178.61
52.5	895.43	852.20	688.57	852.20	895.43	798.73	1512.14
55.0	718.93	494.23	412.49	494.23	718.93	674.39	839.39
57.5	518.92	321.82	337.65	321.82	518.92	552.16	654.73
60.0	354.50	295.39	450.55	295.39	354.50	453.34	557.07
62.5	268.32	345.61	401.78	345.61	268.32	394.33	488.28
65.0	228.09	298.36	322.97	298.36	228.09	364.66	431.48
67.5	212.64	269.06	308.29	269.06	212.64	332.62	375.02
70.0	209.90	254.53	290.13	254.53	209.90	297.55	303.13
72.5	214.46	229.55	264.81	229.55	214.46	245.55	248.29
75.0	197.83	199.53	219.04	199.53	197.83	184.30	208.06
77.5	180.62	153.08	178.71	153.08	180.62	141.29	162.56
80.0	133.41	142.86	184.10	142.86	133.41	124.09	121.71

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	119.56	164.10	193.39	164.10	119.56	102.77	88.75
<b>85.0</b>	119.96	160.48	192.04	160.48	119.96	95.94	62.30
<b>87.5</b>	133.09	158.38	189.06	158.38	133.09	91.12	39.92
<b>90.0</b>	102.62	122.78	137.50	122.78	102.62	72.43	18.22
<b>92.5</b>	56.79	61.33	70.31	61.33	56.79	55.01	13.86
<b>95.0</b>	20.50	24.74	31.18	24.74	20.50	31.68	18.45
<b>97.5</b>	15.23	20.78	24.73	20.78	15.23	14.71	27.47
<b>100.0</b>	14.47	18.30	21.77	18.30	14.47	13.49	28.04
<b>102.5</b>	13.86	17.44	19.87	17.44	13.86	13.08	26.50
<b>105.0</b>	13.28	16.79	19.18	16.79	13.28	14.28	22.49
<b>107.5</b>	11.69	15.71	17.83	15.71	11.69	15.16	17.74
<b>110.0</b>	10.56	13.82	16.23	13.82	10.56	13.20	14.22
<b>112.5</b>	9.92	11.92	14.20	11.92	9.92	10.85	11.79
<b>115.0</b>	9.52	10.82	12.50	10.82	9.52	8.77	9.79
<b>117.5</b>	8.72	10.35	11.67	10.35	8.72	7.78	8.13
<b>120.0</b>	7.48	9.67	11.27	9.67	7.48	7.97	7.07
<b>122.5</b>	6.52	8.17	9.83	8.17	6.52	6.83	6.37
<b>125.0</b>	6.55	6.67	8.08	6.67	6.55	5.18	6.25
<b>127.5</b>	9.72	5.75	6.84	5.75	9.72	4.27	6.59
<b>130.0</b>	11.32	5.90	6.02	5.90	11.32	3.92	6.69
<b>132.5</b>	6.85	9.60	7.07	9.60	6.85	3.92	6.12
<b>135.0</b>	3.90	15.20	13.05	15.20	3.90	3.52	4.98
<b>137.5</b>	2.27	10.67	19.41	10.67	2.27	2.87	3.80
<b>140.0</b>	1.46	4.78	9.38	4.78	1.46	2.37	2.58
<b>142.5</b>	0.98	2.68	4.06	2.68	0.98	1.90	1.67
<b>145.0</b>	0.63	1.85	2.46	1.85	0.63	1.47	1.00
<b>147.5</b>	0.37	1.35	1.79	1.35	0.37	1.16	0.63
<b>150.0</b>	0.19	0.99	1.31	0.99	0.19	0.82	0.27
<b>152.5</b>	0.29	0.76	0.95	0.76	0.29	0.58	0.06
<b>155.0</b>	0.53	0.51	0.68	0.51	0.53	0.53	0.00
<b>157.5</b>	0.65	0.26	0.37	0.26	0.65	0.56	0.06
<b>160.0</b>	0.70	0.51	0.36	0.51	0.70	0.61	0.18
<b>162.5</b>	0.77	0.73	0.64	0.73	0.77	0.58	0.29
<b>165.0</b>	0.72	0.88	0.79	0.88	0.72	0.64	0.34
<b>167.5</b>	0.62	0.85	0.92	0.85	0.62	0.43	0.33
<b>170.0</b>	0.58	0.79	0.92	0.79	0.58	0.48	0.29
<b>172.5</b>	0.69	0.81	1.07	0.81	0.69	0.63	0.50
<b>175.0</b>	0.82	1.01	1.14	1.01	0.82	0.79	0.65
<b>177.5</b>	0.68	0.97	1.13	0.97	0.68	0.90	0.80
<b>180.0</b>	0.83	0.83	0.83	0.83	0.83	0.83	0.83

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3484.46	N.A.	29.50
0-30	6295.2	N.A.	53.30
0-40	8771.98	N.A.	74.30
0-60	11052.84	N.A.	93.60
0-80	11585.78	N.A.	98.20
0-90	11721.62	N.A.	99.30
10-90	10674.74	N.A.	90.40
20-40	5287.52	N.A.	44.80
20-50	6933.59	N.A.	58.70
40-70	2603.21	N.A.	22.10
60-80	532.93	N.A.	4.50
70-80	210.59	N.A.	1.80
80-90	135.84	N.A.	1.20
90-110	59.06	N.A.	0.50
90-120	69.40	N.A.	0.60
90-130	75.72	N.A.	0.60
90-150	82.01	N.A.	0.70
90-180	82.50	N.A.	0.70
110-180	23.45	N.A.	0.20
0-180	11804.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1046.87
10-20	2437.58
20-30	2810.75
30-40	2476.78
40-50	1646.07
50-60	634.79
60-70	322.35
70-80	210.59
80-90	135.84
90-100	42.18
100-110	16.88
110-120	10.34
120-130	6.32
130-140	5.20
140-150	1.09
150-160	0.24
160-170	0.18
170-180	0.07

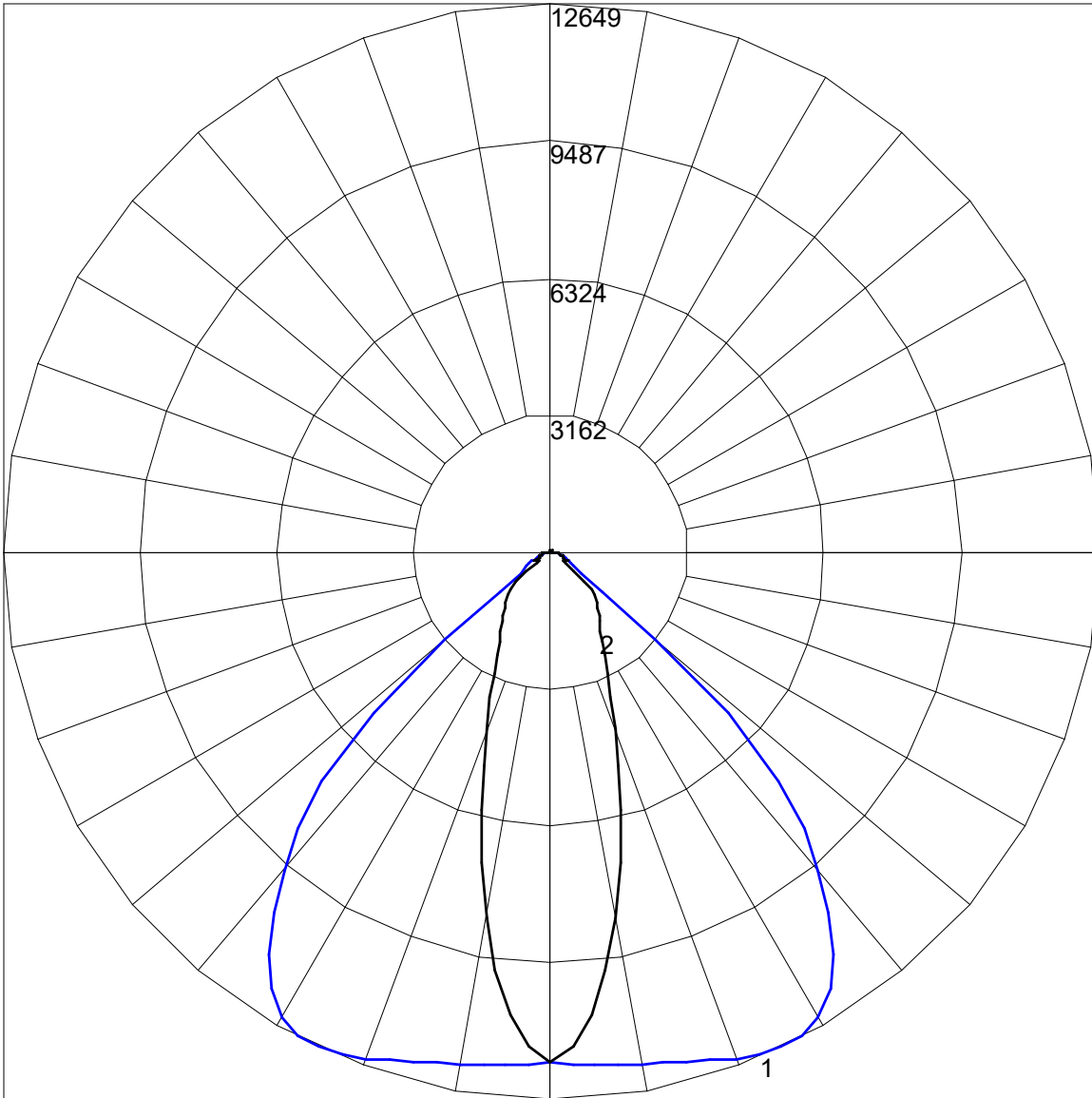
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APX12LL40-UNV-A.IES**

**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	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	94	93	92	90
2	105	99	94	90	102	97	92	89	94	90	87	90	87	85	87	85	83	81
3	98	91	85	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	77	72	90	82	76	71	80	74	70	77	73	69	75	72	68	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	70	66	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	66	59	54	64	58	54	63	57	54	61	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	53	50	58	53	49	48
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	49	46	44
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	46	43	41

POLAR GRAPH



Maximum Candela = 12648.81 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)