

# Day-Brite



by Signify

## IES INDOOR REPORT PHOTOMETRIC FILENAME : APX16LL40-UNV-N.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] FO33704.PSO  
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY  
[ISSUE DATE] 10/24/14  
[MANUFAC] SIGNIFY DAY-BRITE - CFI  
[LUMCAT] APX16LL40-UNV-N  
[LUMINAIRE] APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 4.7K RESISTORS NARROW OPTICS DIRA LENS  
[LAMP] LED. LUMINAIRE OUTPUT = 15933 LMS  
[TESTDATE] 10/24/14

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15933
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	123.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.50 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2148	1171	1110
55	2103	920	821
65	1377	681	802
75	1456	640	632
85	683	592	922

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APX16LL40-UNV-N.IES**

**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>	18372.811	18372.811	18372.811	18372.811	18372.811	18372.811	18372.811	18372.811	18372.811	18372.811
<b>2.5</b>	18322.301	18318.650	18350.551	18311.449	18265.350	18311.449	18350.551	18318.650	18322.301	18318.650
<b>5.0</b>	18278.100	18231.301	18191.750	18075.199	17998.801	18075.199	18191.750	18231.301	18278.100	18231.301
<b>7.5</b>	18198.949	18093.500	17923.199	17674.850	17548.750	17674.850	17923.199	18093.500	18198.949	18093.500
<b>10.0</b>	18054.551	17901.449	17546.400	17145.801	16943.850	17145.801	17546.400	17901.449	18054.551	17901.449
<b>12.5</b>	17810.750	17608.301	17062.699	16450.750	16204.950	16450.750	17062.699	17608.301	17810.750	17608.301
<b>15.0</b>	17427.051	17177.750	16425.000	15621.200	15283.300	15621.200	16425.000	17177.750	17427.051	17177.750
<b>17.5</b>	16875.850	16563.301	15595.750	14626.300	14233.100	14626.300	15595.750	16563.301	16875.850	16563.301
<b>20.0</b>	16158.300	15752.600	14573.400	13444.050	13010.500	13444.050	14573.400	15752.600	16158.300	15752.600
<b>22.5</b>	15266.050	14745.350	13365.250	12077.450	11608.950	12077.450	13365.250	14745.350	15266.050	14745.350
<b>25.0</b>	14123.650	13528.950	11978.550	10543.950	10059.310	10543.950	11978.550	13528.950	14123.650	13528.950
<b>27.5</b>	12647.150	12001.700	10392.600	8882.260	8381.070	8882.260	10392.600	12001.700	12647.150	12001.700
<b>30.0</b>	10501.650	9911.250	8455.360	7083.660	6652.170	7083.660	8455.360	9911.250	10501.650	9911.250
<b>32.5</b>	7822.870	7332.680	6187.680	5168.460	4913.550	5168.460	6187.680	7332.680	7822.870	7332.680
<b>35.0</b>	5097.670	4670.370	3922.730	3342.950	3275.610	3342.950	3922.730	4670.370	5097.670	4670.370
<b>37.5</b>	2767.700	2492.110	2137.590	1907.330	1942.710	1907.330	2137.590	2492.110	2767.700	2492.110
<b>40.0</b>	1484.970	1225.760	1097.020	1022.510	1082.600	1022.510	1097.020	1225.760	1484.970	1225.760
<b>42.5</b>	927.560	709.970	667.770	636.130	667.110	636.130	709.970	927.560	709.970	709.970
<b>45.0</b>	791.610	550.380	535.320	518.640	522.810	518.640	550.380	791.610	550.380	550.380
<b>47.5</b>	767.620	497.150	478.560	461.060	466.520	461.060	497.150	767.620	497.150	497.150
<b>50.0</b>	734.630	464.140	436.300	417.960	421.380	417.960	464.140	734.630	464.140	464.140
<b>52.5</b>	695.960	434.400	406.730	382.220	379.490	382.220	434.400	695.960	434.400	434.400
<b>55.0</b>	656.860	410.620	381.710	349.600	353.750	349.600	410.620	656.860	410.620	410.620
<b>57.5</b>	587.290	384.280	355.530	327.150	352.220	327.150	384.280	587.290	384.280	384.280
<b>60.0</b>	518.190	349.740	320.550	309.540	338.340	309.540	349.740	518.190	349.740	349.740
<b>62.5</b>	441.760	314.980	280.470	298.370	327.050	298.370	314.980	441.760	314.980	314.980
<b>65.0</b>	339.470	283.130	244.960	284.720	303.150	284.720	283.130	339.470	283.130	283.130
<b>67.5</b>	261.530	249.800	230.370	267.730	289.360	267.730	249.800	261.530	249.800	249.800
<b>70.0</b>	232.100	218.970	223.900	246.280	268.480	246.280	218.970	232.100	218.970	218.970
<b>72.5</b>	281.210	185.840	205.350	224.190	255.700	224.190	185.840	281.210	185.840	185.840
<b>75.0</b>	252.410	152.030	188.210	197.960	198.150	197.960	152.030	252.410	152.030	152.030
<b>77.5</b>	167.070	127.910	178.350	162.230	181.850	162.230	127.910	167.070	127.910	127.910
<b>80.0</b>	126.040	112.610	145.210	146.780	201.200	146.780	112.610	126.040	112.610	112.610
<b>82.5</b>	96.470	106.560	121.340	170.370	222.830	170.370	106.560	96.470	106.560	106.560
<b>85.0</b>	64.840	100.290	130.000	177.380	220.670	177.380	100.290	64.840	100.290	100.290
<b>87.5</b>	38.860	97.190	158.630	168.980	193.670	168.980	97.190	38.860	97.190	97.190
<b>90.0</b>	18.380	74.210	129.850	127.120	131.230	127.120	74.210	18.380	74.210	74.210
<b>92.5</b>	15.620	71.710	78.010	76.510	83.530	76.510	71.710	15.620	71.710	71.710
<b>95.0</b>	21.870	45.490	34.600	35.790	43.170	35.790	45.490	21.870	45.490	45.490
<b>97.5</b>	29.760	19.450	20.400	26.990	30.140	26.990	19.450	29.760	19.450	19.450
<b>100.0</b>	29.460	17.120	20.860	25.480	27.780	25.480	17.120	29.460	17.120	17.120
<b>102.5</b>	26.140	16.690	20.840	25.050	26.460	25.050	16.690	26.140	16.690	16.690
<b>105.0</b>	22.580	17.150	20.540	25.270	26.710	25.270	17.150	22.580	17.150	17.150
<b>107.5</b>	18.440	16.480	18.580	24.370	26.220	24.370	16.480	18.440	16.480	16.480
<b>110.0</b>	13.570	14.320	17.150	21.930	24.080	21.930	14.320	13.570	14.320	14.320
<b>112.5</b>	10.360	11.860	16.070	19.720	21.800	19.720	11.860	10.360	11.860	11.860
<b>115.0</b>	8.290	9.750	15.100	17.950	19.790	17.950	9.750	8.290	9.750	9.750
<b>117.5</b>	7.080	9.710	14.140	16.760	18.670	16.760	9.710	7.080	9.710	9.710
<b>120.0</b>	5.770	9.090	12.530	16.050	17.560	16.050	9.090	5.770	9.090	9.090
<b>122.5</b>	4.570	6.380	11.210	14.700	16.410	14.700	6.380	4.570	6.380	6.380
<b>125.0</b>	3.860	4.350	11.350	13.010	14.830	13.010	4.350	3.860	4.350	4.350
<b>127.5</b>	3.270	3.390	15.240	11.890	13.570	11.890	3.390	3.270	3.390	3.390
<b>130.0</b>	2.810	2.830	14.290	12.490	13.180	12.490	2.830	2.810	2.830	2.830
<b>132.5</b>	2.790	2.720	10.010	16.270	15.430	16.270	2.720	2.790	2.720	2.720

CANDELA TABULATION - (Cont.)

135.0	2.850	2.900	8.180	18.090	20.100	18.090	8.180	2.900	2.850	2.900
137.5	3.170	2.960	6.690	13.590	19.860	13.590	6.690	2.960	3.170	2.960
140.0	2.920	3.200	5.860	10.540	14.510	10.540	5.860	3.200	2.920	3.200
142.5	3.260	3.550	5.270	9.330	11.250	9.330	5.270	3.550	3.260	3.550
145.0	3.640	3.720	4.610	8.290	9.700	8.290	4.610	3.720	3.640	3.720
147.5	3.750	4.000	4.310	7.700	8.720	7.700	4.310	4.000	3.750	4.000
150.0	4.200	3.870	3.830	7.040	7.650	7.040	3.830	3.870	4.200	3.870
152.5	4.330	4.110	4.120	6.140	6.970	6.140	4.120	4.110	4.330	4.110
155.0	4.480	4.490	4.520	5.380	6.560	5.380	4.520	4.490	4.480	4.490
157.5	5.000	5.280	4.990	4.960	6.060	4.960	4.990	5.280	5.000	5.280
160.0	5.530	5.380	5.390	5.570	5.790	5.570	5.390	5.380	5.530	5.380
162.5	6.130	6.010	5.740	6.150	6.270	6.150	5.740	6.010	6.130	6.010
165.0	6.580	6.400	6.320	6.370	6.660	6.370	6.320	6.400	6.580	6.400
167.5	6.390	6.580	6.490	6.690	6.940	6.690	6.490	6.580	6.390	6.580
170.0	7.010	6.870	6.700	7.210	7.340	7.210	6.700	6.870	7.010	6.870
172.5	7.520	7.320	7.420	7.810	7.820	7.810	7.420	7.320	7.520	7.320
175.0	8.030	7.890	7.840	8.140	8.260	8.140	7.840	7.890	8.030	7.890
177.5	8.400	8.380	7.640	8.180	8.430	8.180	7.640	8.380	8.400	8.380
180.0	8.210	8.210	8.210	8.210	8.210	8.210	8.210	8.210	8.210	8.210

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	18372.81118372.81118372.81118372.81118372.81118372.81118372.811						
2.5	18350.55118311.44918265.35018311.44918350.55118318.65018322.301						
5.0	18191.75018075.19917998.80118075.19918191.75018231.30118278.100						
7.5	17923.19917674.85017548.75017674.85017923.19918093.50018198.949						
10.0	17546.40017145.80116943.85017145.80117546.40017901.44918054.551						
12.5	17062.69916450.75016204.95016450.75017062.69917608.30117810.750						
15.0	16425.00015621.20015283.30015621.20016425.00017177.75017427.051						
17.5	15595.75014626.30014233.10014626.30015595.75016563.30116875.850						
20.0	14573.40013444.05013010.50013444.05014573.40015752.60016158.300						
22.5	13365.25012077.45011608.95012077.45013365.25014745.35015266.050						
25.0	11978.55010543.95010059.31010543.95011978.55013528.95014123.650						
27.5	10392.6008882.260 8381.070 8882.260 10392.60012001.70012647.150						
30.0	8455.360 7083.660 6652.170 7083.660 8455.360 9911.250 10501.650						
32.5	6187.680 5168.460 4913.550 5168.460 6187.680 7332.680 7822.870						
35.0	3922.730 3342.950 3275.610 3342.950 3922.730 4670.370 5097.670						
37.5	2137.590 1907.330 1942.710 1907.330 2137.590 2492.110 2767.700						
40.0	1097.020 1022.510 1082.600 1022.510 1097.020 1225.760 1484.970						
42.5	667.770 636.130 667.110 636.130 667.770 709.970 927.560						
45.0	535.320 518.640 522.810 518.640 535.320 550.380 791.610						
47.5	478.560 461.060 466.520 461.060 478.560 497.150 767.620						
50.0	436.300 417.960 421.380 417.960 436.300 464.140 734.630						
52.5	406.730 382.220 379.490 382.220 406.730 434.400 695.960						
55.0	381.710 349.600 353.750 349.600 381.710 410.620 656.860						
57.5	355.530 327.150 352.220 327.150 355.530 384.280 587.290						
60.0	320.550 309.540 338.340 309.540 320.550 349.740 518.190						
62.5	280.470 298.370 327.050 298.370 280.470 314.980 441.760						
65.0	244.960 284.720 303.150 284.720 244.960 283.130 339.470						
67.5	230.370 267.730 289.360 267.730 230.370 249.800 261.530						
70.0	223.900 246.280 268.480 246.280 223.900 218.970 232.100						
72.5	205.350 224.190 255.700 224.190 205.350 185.840 281.210						
75.0	188.210 197.960 198.150 197.960 188.210 152.030 252.410						
77.5	178.350 162.230 181.850 162.230 178.350 127.910 167.070						
80.0	145.210 146.780 201.200 146.780 145.210 112.610 126.040						

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	121.340	170.370	222.830	170.370	121.340	106.560	96.470
<b>85.0</b>	130.000	177.380	220.670	177.380	130.000	100.290	64.840
<b>87.5</b>	158.630	168.980	193.670	168.980	158.630	97.190	38.860
<b>90.0</b>	129.850	127.120	131.230	127.120	129.850	74.210	18.380
<b>92.5</b>	78.010	76.510	83.530	76.510	78.010	71.710	15.620
<b>95.0</b>	34.600	35.790	43.170	35.790	34.600	45.490	21.870
<b>97.5</b>	20.400	26.990	30.140	26.990	20.400	19.450	29.760
<b>100.0</b>	20.860	25.480	27.780	25.480	20.860	17.120	29.460
<b>102.5</b>	20.840	25.050	26.460	25.050	20.840	16.690	26.140
<b>105.0</b>	20.540	25.270	26.710	25.270	20.540	17.150	22.580
<b>107.5</b>	18.580	24.370	26.220	24.370	18.580	16.480	18.440
<b>110.0</b>	17.150	21.930	24.080	21.930	17.150	14.320	13.570
<b>112.5</b>	16.070	19.720	21.800	19.720	16.070	11.860	10.360
<b>115.0</b>	15.100	17.950	19.790	17.950	15.100	9.750	8.290
<b>117.5</b>	14.140	16.760	18.670	16.760	14.140	9.710	7.080
<b>120.0</b>	12.530	16.050	17.560	16.050	12.530	9.090	5.770
<b>122.5</b>	11.210	14.700	16.410	14.700	11.210	6.380	4.570
<b>125.0</b>	11.350	13.010	14.830	13.010	11.350	4.350	3.860
<b>127.5</b>	15.240	11.890	13.570	11.890	15.240	3.390	3.270
<b>130.0</b>	14.290	12.490	13.180	12.490	14.290	2.830	2.810
<b>132.5</b>	10.010	16.270	15.430	16.270	10.010	2.720	2.790
<b>135.0</b>	8.180	18.090	20.100	18.090	8.180	2.900	2.850
<b>137.5</b>	6.690	13.590	19.860	13.590	6.690	2.960	3.170
<b>140.0</b>	5.860	10.540	14.510	10.540	5.860	3.200	2.920
<b>142.5</b>	5.270	9.330	11.250	9.330	5.270	3.550	3.260
<b>145.0</b>	4.610	8.290	9.700	8.290	4.610	3.720	3.640
<b>147.5</b>	4.310	7.700	8.720	7.700	4.310	4.000	3.750
<b>150.0</b>	3.830	7.040	7.650	7.040	3.830	3.870	4.200
<b>152.5</b>	4.120	6.140	6.970	6.140	4.120	4.110	4.330
<b>155.0</b>	4.520	5.380	6.560	5.380	4.520	4.490	4.480
<b>157.5</b>	4.990	4.960	6.060	4.960	4.990	5.280	5.000
<b>160.0</b>	5.390	5.570	5.790	5.570	5.390	5.380	5.530
<b>162.5</b>	5.740	6.150	6.270	6.150	5.740	6.010	6.130
<b>165.0</b>	6.320	6.370	6.660	6.370	6.320	6.400	6.580
<b>167.5</b>	6.490	6.690	6.940	6.690	6.490	6.580	6.390
<b>170.0</b>	6.700	7.210	7.340	7.210	6.700	6.870	7.010
<b>172.5</b>	7.420	7.810	7.820	7.810	7.420	7.320	7.520
<b>175.0</b>	7.840	8.140	8.260	8.140	7.840	7.890	8.030
<b>177.5</b>	7.640	8.180	8.430	8.180	7.640	8.380	8.400
<b>180.0</b>	8.210	8.210	8.210	8.210	8.210	8.210	8.210

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	6282.15	N.A.	39.40
0-30	11690.02	N.A.	73.40
0-40	14321.18	N.A.	89.90
0-60	15186.99	N.A.	95.30
0-80	15673.05	N.A.	98.40
0-90	15818.71	N.A.	99.30
10-90	14105.61	N.A.	88.50
20-40	8039.02	N.A.	50.50
20-50	8535.92	N.A.	53.60
40-70	1151.01	N.A.	7.20
60-80	486.07	N.A.	3.10
70-80	200.87	N.A.	1.30
80-90	145.66	N.A.	0.90
90-110	75.14	N.A.	0.50
90-120	89.74	N.A.	0.60
90-130	98.91	N.A.	0.60
90-150	109.79	N.A.	0.70
90-180	114.66	N.A.	0.70
110-180	39.53	N.A.	0.20
0-180	15933.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1713.1
10-20	4569.05
20-30	5407.87
30-40	2631.15
40-50	496.90
50-60	368.91
60-70	285.20
70-80	200.87
80-90	145.66
90-100	52.61
100-110	22.52
110-120	14.60
120-130	9.17
130-140	7.11
140-150	3.77
150-160	2.37
160-170	1.77
170-180	0.73

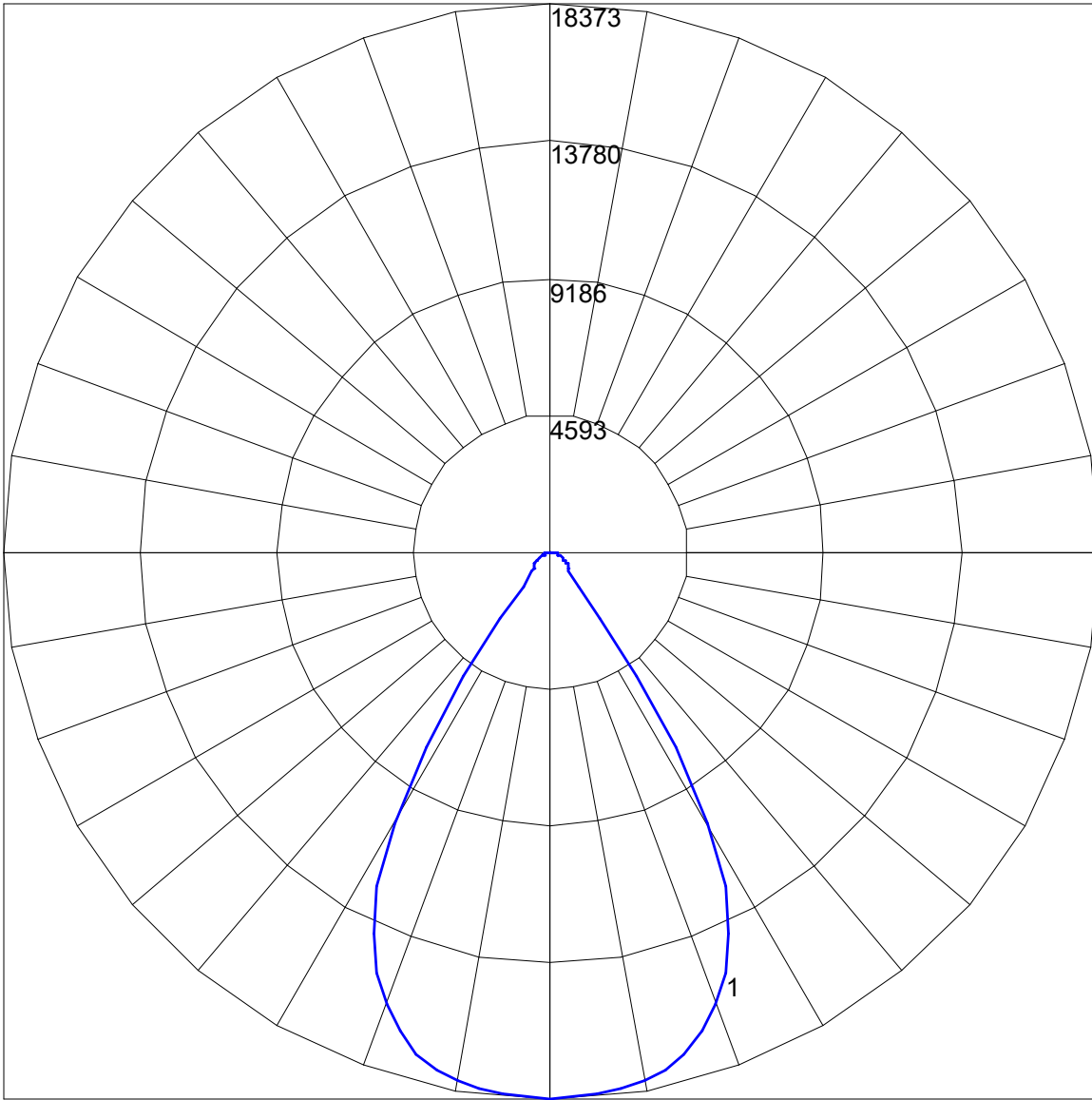
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	113	110	107	105	110	107	105	103	103	101	99	99	98	96	96	95	93	92
2	107	102	97	94	105	100	96	93	97	93	91	93	91	88	91	88	87	85
3	101	95	89	85	99	93	88	85	90	86	83	88	85	82	86	83	80	79
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73
5	91	83	77	73	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	67	74	70	66	73	69	66	64
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	65	61	58	57
9	75	66	60	56	74	65	59	56	64	59	55	63	58	55	62	58	55	53
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51

POLAR GRAPH



Maximum Candela = 18372.811 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)