

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684665

Luminaire Tested: **LX6C80D010 EX6C809040 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C80D010 EX6C809040 6LCSWH  
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

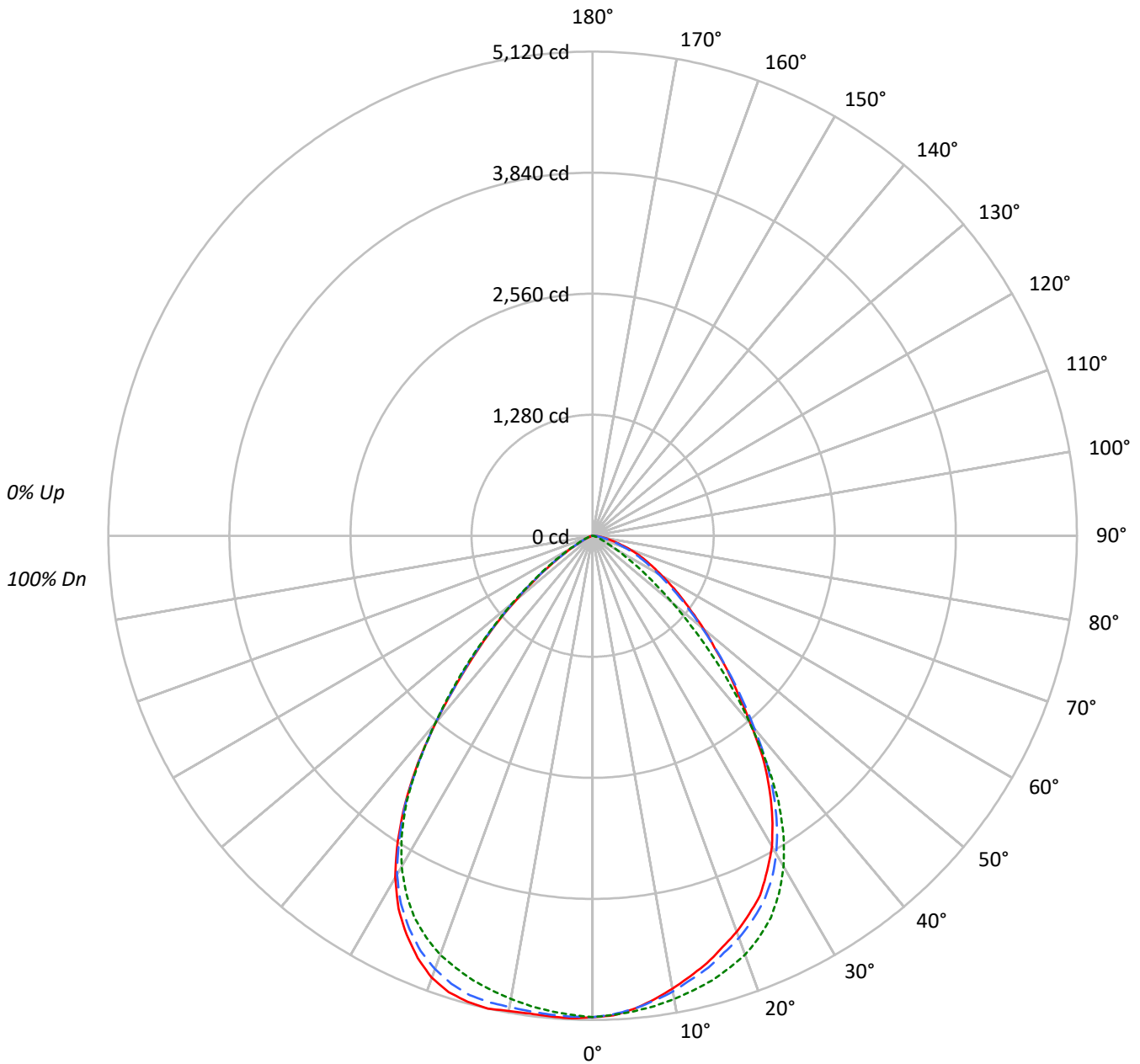
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8539.0 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 89.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	279029	279029	279029
5°	276364	277712	280766
10°	270670	276821	284013
15°	265490	276301	289565
20°	259985	275048	290111
25°	253581	269562	281460
30°	240088	255647	264205
35°	218029	229138	231199
40°	186084	185190	184317
45°	156311	138673	134394
50°	130546	93839	89131
55°	109865	57575	52299
60°	93008	30337	26281
65°	80540	15955	12738
70°	66982	9857	6892
75°	49500	6503	3918
80°	38831	3883	1957
85°	30946	3900	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.7	5.6
10°-20°	1373.5	16.1
20°-30°	2028.1	23.8
30°-40°	2090.2	24.5
40°-50°	1443.6	16.9
50°-60°	711.6	8.3
60°-70°	288.3	3.4
70°-80°	102.8	1.2
80°-90°	21.2	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3881.3	45.5
0°-40°	5971.4	69.9
0°-60°	8126.6	95.2
0°-90°	8539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8539.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5090	5090	5090	5090	5090	
5°	5022	5022	5047	5084	5102	474
15°	4678	4727	4868	5028	5102	1317
25°	4192	4272	4456	4586	4653	1917
35°	3258	3338	3424	3442	3455	2019
45°	2016	2028	1789	1764	1734	1558
55°	1150	1107	602	566	547	1039
65°	621	559	123	98	98	617
75°	234	197	31	18	18	262
85°	49	37	6	0	0	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9
2.5°	5077.4	5059.1	5071.4	5046.6	5077.4	5046.6	5052.9	5059.1	5052.9	5059.1	5065.1
5°	5022.1	5003.6	5022.1	4991.4	5022.1	5003.6	5003.6	5009.9	5009.9	5015.9	5022.1
7.5°	4948.4	4929.9	4948.4	4917.7	4954.4	4936.1	4936.1	4948.4	4942.2	4948.4	4960.6
10°	4862.4	4837.7	4856.2	4837.7	4874.7	4849.9	4862.4	4862.4	4862.4	4880.7	4893.1
12.5°	4770.2	4745.4	4770.2	4739.4	4776.2	4757.9	4763.9	4782.4	4788.4	4800.9	4806.9
15°	4677.9	4647.2	4659.4	4641.0	4677.9	4659.4	4665.7	4690.2	4690.2	4708.7	4727.2
17.5°	4561.2	4536.5	4561.2	4536.5	4567.2	4555.0	4567.2	4585.7	4585.7	4604.2	4622.5
20°	4456.5	4432.0	4450.5	4432.0	4469.0	4450.5	4456.5	4481.2	4487.2	4505.7	4524.2
22.5°	4327.5	4309.0	4321.3	4303.0	4339.8	4327.5	4333.7	4358.2	4364.5	4376.7	4407.5
25°	4192.3	4155.3	4173.8	4161.5	4198.5	4180.0	4192.3	4216.8	4229.3	4247.5	4272.3
27.5°	3995.6	3977.1	3989.3	3989.3	4020.1	4001.8	4007.8	4032.5	4050.8	4069.3	4100.0
30°	3792.8	3762.1	3774.3	3780.4	3805.1	3792.8	3805.1	3829.6	3835.8	3860.3	3884.8
32.5°	3534.6	3522.2	3546.9	3534.6	3546.9	3546.9	3552.9	3571.4	3583.6	3596.1	3626.9
35°	3257.9	3233.4	3257.9	3245.7	3276.4	3257.9	3276.4	3294.9	3294.9	3319.4	3337.9
37.5°	2956.7	2926.0	2938.2	2938.2	2950.5	2944.5	2944.5	2975.2	2981.2	2999.7	3018.2
40°	2600.3	2587.8	2612.5	2606.3	2612.5	2612.5	2618.6	2637.0	2649.3	2655.5	2661.8
42.5°	2280.6	2286.6	2292.9	2292.9	2292.9	2292.9	2292.9	2317.4	2311.3	2329.8	2335.8
45°	2016.2	1991.7	2003.9	1997.9	2016.2	1997.9	2016.2	2034.7	2022.4	2040.9	2028.4
47.5°	1745.7	1745.7	1745.7	1739.7	1751.9	1745.7	1758.0	1764.2	1764.2	1764.2	1758.0
50°	1530.7	1512.2	1518.2	1518.2	1524.5	1518.2	1530.7	1536.7	1536.7	1524.5	1500.0
52.5°	1321.5	1315.5	1315.5	1327.8	1327.8	1321.5	1321.5	1321.5	1321.5	1303.3	1290.8
55°	1149.5	1137.3	1143.3	1143.3	1143.3	1143.3	1143.3	1149.5	1143.3	1143.3	1106.6
57.5°	995.8	983.6	983.6	983.6	989.6	983.6	983.6	983.6	977.3	958.8	934.3
60°	848.3	842.1	848.3	848.3	854.4	848.3	848.3	848.3	836.1	817.6	792.9
62.5°	725.4	725.4	725.4	731.4	731.4	725.4	725.4	719.1	713.1	688.4	663.9
65°	620.9	614.6	620.9	620.9	626.9	626.9	620.9	614.6	608.6	583.9	559.4
67.5°	516.4	510.2	516.4	516.4	522.4	516.4	516.4	516.4	497.9	485.7	460.9
70°	417.9	411.9	411.9	411.9	417.9	405.7	411.9	411.9	399.7	381.2	356.4
72.5°	319.7	319.7	319.7	319.7	319.7	319.7	313.4	313.4	301.2	282.7	270.5
75°	233.7	233.7	239.7	239.7	233.7	233.7	233.7	227.5	221.2	209.0	196.7
77.5°	172.2	172.2	172.2	172.2	166.0	166.0	166.0	159.7	153.7	147.5	135.2
80°	123.0	123.0	123.0	116.7	123.0	116.7	116.7	116.7	104.5	98.2	92.2
82.5°	86.0	80.0	80.0	80.0	80.0	80.0	80.0	73.7	73.7	67.7	61.5
85°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	43.0	37.0	37.0
87.5°	24.5	30.7	30.7	30.7	30.7	30.7	30.7	24.5	24.5	24.5	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9
2.5°	5065.1	5065.1	5077.4	5059.1	5089.9	5071.4	5065.1	5095.9	5077.4	5071.4	5083.6
5°	5022.1	5028.4	5034.4	5022.1	5052.9	5034.4	5034.4	5065.1	5052.9	5046.6	5065.1
7.5°	4966.9	4972.9	4985.1	4979.1	5003.6	4991.4	4997.6	5028.4	5015.9	5015.9	5034.4
10°	4899.2	4911.4	4923.9	4923.9	4954.4	4942.2	4942.2	4979.1	4966.9	4972.9	4997.6
12.5°	4819.2	4837.7	4856.2	4862.4	4893.1	4874.7	4880.7	4923.9	4917.7	4923.9	4948.4
15°	4733.2	4757.9	4776.2	4776.2	4813.2	4794.7	4813.2	4856.2	4843.9	4868.4	4899.2
17.5°	4634.9	4659.4	4683.9	4690.2	4727.2	4714.7	4739.4	4782.4	4782.4	4794.7	4831.7
20°	4542.7	4573.5	4585.7	4604.2	4641.0	4634.9	4647.2	4696.4	4696.4	4714.7	4751.7
22.5°	4419.7	4450.5	4475.0	4493.5	4524.2	4524.2	4542.7	4585.7	4585.7	4598.0	4634.9
25°	4284.5	4321.3	4339.8	4358.2	4389.0	4382.8	4401.2	4438.2	4444.2	4456.5	4493.5
27.5°	4112.3	4143.0	4167.8	4180.0	4223.0	4198.5	4216.8	4260.0	4253.8	4266.0	4296.8
30°	3897.3	3928.1	3952.6	3952.6	3989.3	3989.3	4007.8	4026.3	4026.3	4038.6	4063.3
32.5°	3645.1	3682.1	3682.1	3700.6	3725.1	3700.6	3725.1	3749.6	3737.4	3755.9	3774.3
35°	3356.2	3374.7	3380.9	3380.9	3399.4	3393.2	3386.9	3405.4	3393.2	3423.9	3442.4
37.5°	3006.0	3030.5	3018.2	3030.5	3024.2	3006.0	3006.0	3036.7	3012.0	3018.2	3036.7
40°	2667.8	2667.8	2661.8	2631.0	2637.0	2618.6	2612.5	2618.6	2594.1	2587.8	2612.5
42.5°	2317.4	2311.3	2292.9	2249.9	2255.9	2225.1	2200.6	2200.6	2188.4	2182.1	2188.4
45°	2003.9	1985.4	1954.7	1905.7	1893.2	1868.7	1819.4	1807.2	1788.7	1788.7	1794.9
47.5°	1715.0	1690.5	1641.2	1586.0	1555.2	1524.5	1475.2	1456.8	1426.0	1413.8	1426.0
50°	1475.2	1432.3	1370.8	1290.8	1260.0	1223.3	1174.1	1143.3	1112.6	1100.3	1094.1
52.5°	1254.0	1192.5	1131.1	1032.8	1008.1	971.3	903.6	872.9	842.1	817.6	817.6
55°	1063.3	1008.1	922.1	829.9	792.9	756.1	688.4	645.4	614.6	602.4	590.1
57.5°	891.3	829.9	749.9	651.6	614.6	577.9	510.2	467.2	436.4	417.9	405.7
60°	749.9	682.4	602.4	516.4	473.4	436.4	368.9	325.7	295.0	276.7	264.2
62.5°	614.6	559.4	479.4	399.7	362.7	325.7	270.5	227.5	196.7	184.5	166.0
65°	516.4	460.9	387.2	319.7	288.9	252.0	203.0	166.0	141.5	123.0	110.7
67.5°	417.9	374.9	313.4	252.0	221.2	196.7	153.7	123.0	98.2	86.0	80.0
70°	331.9	288.9	239.7	190.5	172.2	147.5	116.7	86.0	73.7	61.5	55.2
72.5°	246.0	215.2	178.2	141.5	123.0	110.7	80.0	67.7	49.2	43.0	37.0
75°	178.2	153.7	129.0	98.2	86.0	80.0	61.5	43.0	37.0	30.7	24.5
77.5°	123.0	110.7	86.0	67.7	61.5	55.2	43.0	30.7	24.5	18.5	18.5
80°	80.0	67.7	55.2	43.0	43.0	37.0	24.5	18.5	18.5	12.3	12.3
82.5°	49.2	43.0	37.0	30.7	24.5	24.5	18.5	12.3	12.3	6.2	6.2
85°	30.7	24.5	18.5	18.5	12.3	12.3	12.3	6.2	6.2	6.2	6.2
87.5°	12.3	12.3	12.3	6.2	6.2	6.2	6.2	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9
2.5°	5083.6	5083.6	5095.9	5077.4	5089.9	5089.9	5102.1	5077.4	5089.9	5095.9	5108.1
5°	5059.1	5065.1	5077.4	5071.4	5077.4	5077.4	5089.9	5059.1	5083.6	5083.6	5102.1
7.5°	5034.4	5034.4	5046.6	5040.6	5052.9	5059.1	5071.4	5046.6	5071.4	5071.4	5089.9
10°	5003.6	5003.6	5022.1	5015.9	5034.4	5040.6	5059.1	5034.4	5059.1	5065.1	5083.6
12.5°	4960.6	4966.9	4985.1	4985.1	5003.6	5015.9	5034.4	5022.1	5052.9	5059.1	5083.6
15°	4911.4	4923.9	4948.4	4942.2	4960.6	4979.1	5003.6	4985.1	5028.4	5040.6	5065.1
17.5°	4849.9	4862.4	4880.7	4880.7	4899.2	4911.4	4942.2	4929.9	4966.9	4972.9	5003.6
20°	4757.9	4776.2	4800.9	4794.7	4813.2	4825.4	4849.9	4837.7	4874.7	4886.9	4917.7
22.5°	4647.2	4659.4	4677.9	4677.9	4696.4	4708.7	4733.2	4714.7	4751.7	4757.9	4782.4
25°	4499.7	4512.0	4524.2	4530.5	4548.7	4555.0	4567.2	4555.0	4585.7	4591.9	4622.5
27.5°	4309.0	4315.3	4333.7	4333.7	4346.0	4352.0	4370.5	4346.0	4389.0	4389.0	4407.5
30°	4081.6	4075.5	4100.0	4087.8	4100.0	4100.0	4118.5	4106.3	4137.0	4124.8	4143.0
32.5°	3780.4	3792.8	3792.8	3780.4	3805.1	3798.8	3798.8	3786.6	3805.1	3811.1	3823.3
35°	3430.2	3448.4	3448.4	3454.7	3460.9	3442.4	3448.4	3411.7	3442.4	3448.4	3454.7
37.5°	3049.0	3030.5	3042.7	3024.2	3055.0	3018.2	3018.2	2993.7	3018.2	3018.2	3024.2
40°	2612.5	2606.3	2618.6	2606.3	2600.3	2594.1	2581.8	2563.3	2587.8	2575.6	2594.1
42.5°	2200.6	2194.4	2194.4	2182.1	2176.1	2176.1	2163.9	2151.4	2145.4	2145.4	2176.1
45°	1776.4	1788.7	1776.4	1770.4	1782.7	1770.4	1776.4	1751.9	1764.2	1751.9	1764.2
47.5°	1420.0	1426.0	1413.8	1401.5	1420.0	1401.5	1401.5	1383.0	1407.8	1407.8	1395.3
50°	1100.3	1094.1	1081.8	1094.1	1088.1	1088.1	1088.1	1069.6	1081.8	1063.3	1075.8
52.5°	811.4	805.4	805.4	799.1	805.4	799.1	799.1	792.9	792.9	786.9	792.9
55°	590.1	583.9	571.7	571.7	571.7	577.9	571.7	565.6	565.6	559.4	565.6
57.5°	399.7	387.2	387.2	387.2	387.2	381.2	381.2	374.9	381.2	374.9	381.2
60°	258.2	258.2	246.0	246.0	246.0	246.0	246.0	239.7	246.0	246.0	246.0
62.5°	159.7	159.7	153.7	147.5	153.7	147.5	147.5	147.5	153.7	147.5	153.7
65°	104.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
67.5°	73.7	67.7	67.7	67.7	67.7	67.7	67.7	61.5	67.7	67.7	67.7
70°	49.2	49.2	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
72.5°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
75°	24.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
77.5°	18.5	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
80°	12.3	12.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P684665

CATALOG NUMBER: LX6C80D010 EX6C809040 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9
2.5°	5089.9	5095.9	5083.6	5089.9	5077.4	5089.9	5095.9	5108.1
5°	5077.4	5083.6	5071.4	5083.6	5071.4	5083.6	5089.9	5102.1
7.5°	5065.1	5077.4	5065.1	5077.4	5065.1	5077.4	5083.6	5095.9
10°	5065.1	5083.6	5071.4	5089.9	5071.4	5083.6	5095.9	5102.1
12.5°	5065.1	5083.6	5077.4	5089.9	5083.6	5095.9	5108.1	5120.4
15°	5052.9	5071.4	5059.1	5077.4	5071.4	5077.4	5102.1	5102.1
17.5°	4985.1	5003.6	5003.6	5015.9	5015.9	5034.4	5046.6	5059.1
20°	4899.2	4917.7	4911.4	4929.9	4929.9	4948.4	4960.6	4972.9
22.5°	4770.2	4794.7	4788.4	4806.9	4800.9	4813.2	4837.7	4831.7
25°	4604.2	4634.9	4628.7	4641.0	4634.9	4634.9	4647.2	4653.2
27.5°	4401.2	4419.7	4413.5	4426.0	4413.5	4426.0	4438.2	4444.2
30°	4137.0	4149.3	4143.0	4149.3	4143.0	4155.3	4161.5	4173.8
32.5°	3817.3	3835.8	3817.3	3829.6	3823.3	3823.3	3848.1	3835.8
35°	3436.2	3442.4	3448.4	3448.4	3436.2	3442.4	3454.7	3454.7
37.5°	3012.0	3042.7	3006.0	3024.2	3018.2	3018.2	3018.2	3036.7
40°	2569.5	2575.6	2563.3	2563.3	2563.3	2557.1	2581.8	2575.6
42.5°	2151.4	2157.6	2151.4	2133.1	2139.1	2139.1	2157.6	2133.1
45°	1745.7	1758.0	1751.9	1751.9	1739.7	1739.7	1745.7	1733.5
47.5°	1383.0	1395.3	1377.0	1383.0	1370.8	1383.0	1377.0	1389.3
50°	1051.1	1063.3	1057.3	1063.3	1063.3	1051.1	1069.6	1045.1
52.5°	786.9	792.9	786.9	780.6	774.6	774.6	786.9	780.6
55°	559.4	553.2	553.2	553.2	559.4	559.4	553.2	547.2
57.5°	374.9	374.9	368.9	368.9	374.9	362.7	368.9	362.7
60°	239.7	239.7	239.7	239.7	233.7	239.7	239.7	239.7
62.5°	147.5	147.5	147.5	147.5	147.5	147.5	147.5	147.5
65°	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
67.5°	61.5	67.7	67.7	67.7	61.5	61.5	61.5	61.5
70°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
72.5°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
75°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
77.5°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
80°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	6.2	6.2	6.2	6.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)