

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: P684711

Luminaire Tested: **LX6C90D010 EX6C909050 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684711
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: LX6C90D010 EX6C909050 6LCSWH
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

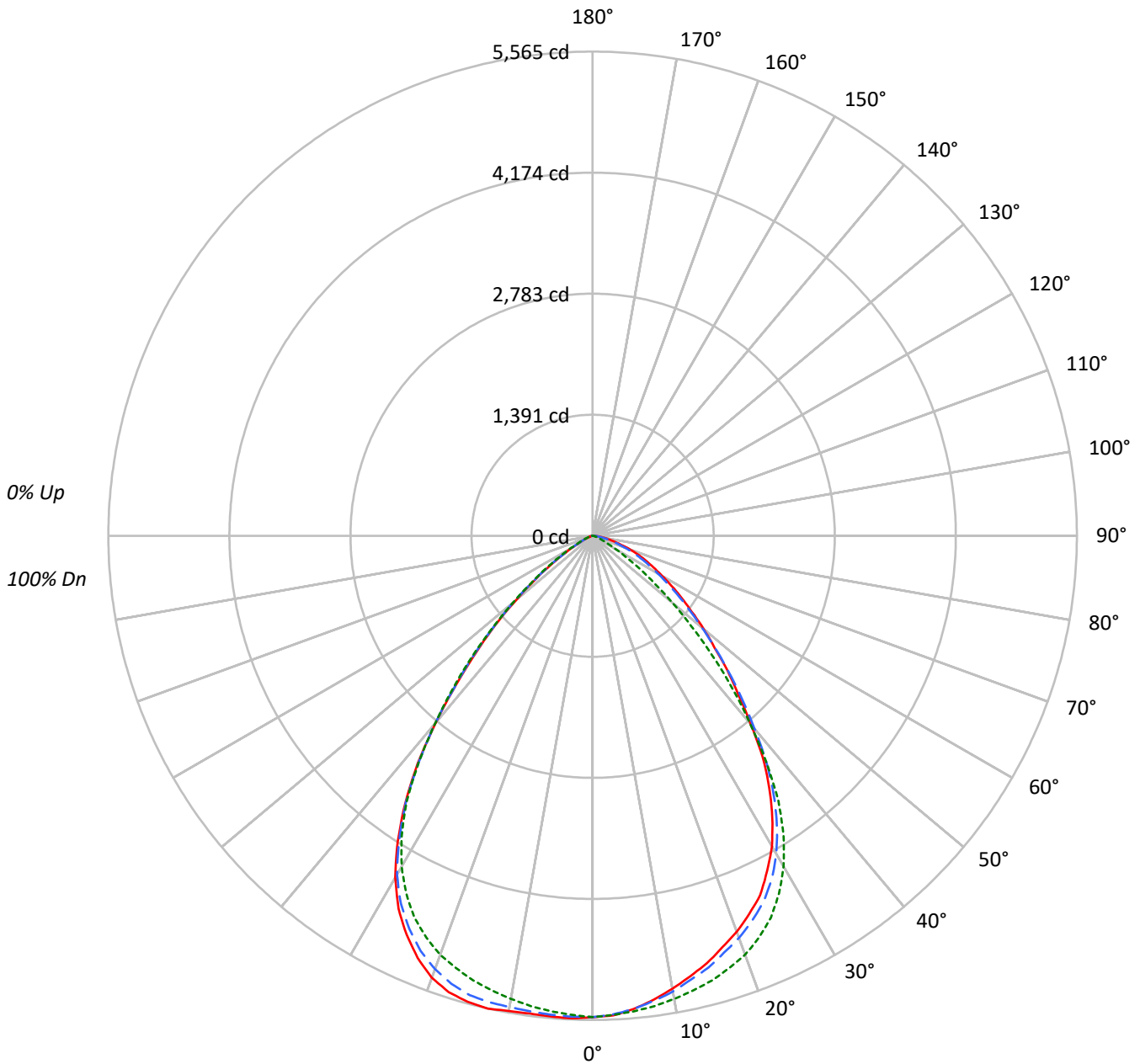
Lumens per Lamp: N/A
Luminaire Lumens: 9281.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
Input Voltage (V):
Input Current (A_{in}): 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					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	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°	303271	303271	303271
5°	300379	301848	305166
10°	294188	300874	308695
15°	288560	300314	314729
20°	282574	298949	315319
25°	275617	292983	305915
30°	260952	277859	287164
35°	236975	249048	251283
40°	202250	201284	200332
45°	169894	150721	146069
50°	141889	101992	96875
55°	119413	62574	56839
60°	101099	32969	28561
65°	87532	17343	13854
70°	72801	10707	7485
75°	53799	7074	4257
80°	42209	4199	2147
85°	33651	4277	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	5.6
10°-20°	1492.8	16.1
20°-30°	2204.4	23.8
30°-40°	2271.8	24.5
40°-50°	1569.1	16.9
50°-60°	773.4	8.3
60°-70°	313.4	3.4
70°-80°	111.7	1.2
80°-90°	23.1	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°	4218.5	45.5
0°-40°	6490.3	69.9
0°-60°	8832.8	95.2
0°-90°	9281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9281.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5532	5532	5532	5532	5532	
5°	5458	5458	5485	5525	5546	515
15°	5084	5138	5292	5465	5546	1432
25°	4557	4644	4844	4984	5058	2083
35°	3541	3628	3721	3742	3755	2194
45°	2191	2205	1944	1918	1884	1694
55°	1249	1203	655	615	595	1129
65°	675	608	134	107	107	670
75°	254	214	33	20	20	285
85°	54	40	7	0	0	65
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°	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1
2.5°	5518.6	5498.7	5512.0	5485.2	5518.6	5485.2	5491.9	5498.7	5491.9	5498.7	5505.3
5°	5458.5	5438.4	5458.5	5425.1	5458.5	5438.4	5438.4	5445.2	5445.2	5451.8	5458.5
7.5°	5378.4	5358.3	5378.4	5345.0	5384.9	5365.1	5365.1	5378.4	5371.6	5378.4	5391.7
10°	5284.9	5258.0	5278.1	5258.0	5298.2	5271.4	5284.9	5284.9	5284.9	5304.8	5318.3
12.5°	5184.7	5157.8	5184.7	5151.3	5191.2	5171.4	5177.9	5198.0	5204.5	5218.1	5224.6
15°	5084.4	5051.0	5064.3	5044.2	5084.4	5064.3	5071.1	5097.7	5097.7	5117.8	5137.9
17.5°	4957.6	4930.7	4957.6	4930.7	4964.1	4950.8	4964.1	4984.2	4984.2	5004.3	5024.1
20°	4843.7	4817.1	4837.2	4817.1	4857.3	4837.2	4843.7	4870.6	4877.2	4897.3	4917.4
22.5°	4703.5	4683.4	4696.8	4676.9	4716.9	4703.5	4710.3	4737.0	4743.7	4757.1	4790.5
25°	4556.6	4516.4	4536.5	4523.2	4563.4	4543.3	4556.6	4583.2	4596.8	4616.6	4643.5
27.5°	4342.8	4322.7	4336.0	4336.0	4369.4	4349.5	4356.1	4383.0	4402.8	4422.9	4456.3
30°	4122.4	4089.0	4102.3	4108.8	4135.7	4122.4	4135.7	4162.4	4169.1	4195.8	4222.4
32.5°	3841.8	3828.2	3855.1	3841.8	3855.1	3855.1	3861.6	3881.7	3895.0	3908.6	3942.0
35°	3541.0	3514.4	3541.0	3527.7	3561.1	3541.0	3561.1	3581.2	3581.2	3607.9	3628.0
37.5°	3213.7	3180.3	3193.6	3193.6	3206.9	3200.4	3200.4	3233.8	3240.3	3260.4	3280.5
40°	2826.2	2812.7	2839.6	2832.8	2839.6	2839.6	2846.1	2866.2	2879.5	2886.3	2893.1
42.5°	2478.8	2485.3	2492.1	2492.1	2492.1	2492.1	2492.1	2518.7	2512.2	2532.3	2538.8
45°	2191.4	2164.7	2178.0	2171.5	2191.4	2171.5	2191.4	2211.5	2198.1	2218.2	2204.7
47.5°	1897.4	1897.4	1897.4	1890.9	1904.2	1897.4	1910.7	1917.5	1917.5	1917.5	1910.7
50°	1663.7	1643.6	1650.2	1650.2	1657.0	1650.2	1663.7	1670.3	1670.3	1657.0	1630.3
52.5°	1436.4	1429.8	1429.8	1443.1	1443.1	1436.4	1436.4	1436.4	1436.4	1416.5	1402.9
55°	1249.4	1236.1	1242.7	1242.7	1242.7	1242.7	1249.4	1242.7	1242.7	1222.6	1202.7
57.5°	1082.4	1069.0	1069.0	1069.0	1075.6	1069.0	1069.0	1069.0	1062.3	1042.2	1015.5
60°	922.1	915.3	922.1	922.1	928.6	922.1	922.1	922.1	908.8	888.7	861.8
62.5°	788.4	788.4	788.4	794.9	794.9	788.4	788.4	781.6	775.1	748.2	721.6
65°	674.8	668.1	674.8	674.8	681.4	681.4	674.8	668.1	661.5	634.6	608.0
67.5°	561.3	554.5	561.3	561.3	567.8	561.3	561.3	561.3	541.2	527.9	501.0
70°	454.2	447.7	447.7	447.7	454.2	440.9	447.7	447.7	434.4	414.3	387.4
72.5°	347.5	347.5	347.5	347.5	347.5	347.5	340.7	340.7	327.4	307.3	294.0
75°	254.0	254.0	260.5	260.5	254.0	254.0	254.0	247.2	240.4	227.1	213.8
77.5°	187.2	187.2	187.2	187.2	180.4	180.4	180.4	173.6	167.1	160.3	147.0
80°	133.7	133.7	133.7	126.9	133.7	126.9	126.9	126.9	113.6	106.8	100.2
82.5°	93.5	86.9	86.9	86.9	86.9	86.9	86.9	80.1	80.1	73.6	66.8
85°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	46.7	40.2	40.2
87.5°	26.6	33.4	33.4	33.4	33.4	33.4	33.4	26.6	26.6	26.6	20.1
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°	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1
2.5°	5505.3	5505.3	5518.6	5498.7	5532.1	5512.0	5505.3	5538.7	5518.6	5512.0	5525.4
5°	5458.5	5465.3	5471.8	5458.5	5491.9	5471.8	5471.8	5505.3	5491.9	5485.2	5505.3
7.5°	5398.5	5405.0	5418.3	5411.8	5438.4	5425.1	5431.9	5465.3	5451.8	5451.8	5471.8
10°	5324.9	5338.2	5351.8	5351.8	5384.9	5371.6	5371.6	5411.8	5398.5	5405.0	5431.9
12.5°	5237.9	5258.0	5278.1	5284.9	5318.3	5298.2	5304.8	5351.8	5345.0	5351.8	5378.4
15°	5144.5	5171.4	5191.2	5191.2	5231.4	5211.3	5231.4	5278.1	5264.8	5291.5	5324.9
17.5°	5037.7	5064.3	5091.0	5097.7	5137.9	5124.4	5151.3	5198.0	5198.0	5211.3	5251.5
20°	4937.5	4970.9	4984.2	5004.3	5044.2	5037.7	5051.0	5104.5	5104.5	5124.4	5164.6
22.5°	4803.8	4837.2	4863.8	4883.9	4917.4	4917.4	4937.5	4984.2	4984.2	4997.5	5037.7
25°	4656.8	4696.8	4716.9	4737.0	4770.4	4763.6	4783.7	4823.9	4830.4	4843.7	4883.9
27.5°	4469.6	4503.1	4529.9	4543.3	4590.0	4563.4	4583.2	4630.2	4623.4	4636.7	4670.1
30°	4236.0	4269.4	4296.0	4296.0	4336.0	4336.0	4356.1	4376.2	4376.2	4389.5	4416.4
32.5°	3961.9	4002.1	4002.1	4022.2	4048.8	4022.2	4048.8	4075.4	4062.1	4082.2	4102.3
35°	3647.8	3667.9	3674.7	3674.7	3694.8	3688.0	3681.2	3701.3	3688.0	3721.4	3741.5
37.5°	3267.2	3293.8	3280.5	3293.8	3287.0	3267.2	3267.2	3300.6	3273.7	3280.5	3300.6
40°	2899.6	2899.6	2893.1	2859.7	2866.2	2846.1	2839.6	2846.1	2819.5	2812.7	2839.6
42.5°	2518.7	2512.2	2492.1	2445.4	2451.9	2418.5	2391.8	2391.8	2378.5	2371.7	2378.5
45°	2178.0	2157.9	2124.5	2071.3	2057.7	2031.1	1977.5	1964.2	1944.1	1944.1	1950.9
47.5°	1864.0	1837.3	1783.8	1723.8	1690.4	1657.0	1603.4	1583.3	1549.9	1536.6	1549.9
50°	1603.4	1556.7	1489.9	1402.9	1369.5	1329.6	1276.1	1242.7	1209.2	1195.9	1189.1
52.5°	1363.0	1296.2	1229.3	1122.6	1095.7	1055.7	982.1	948.7	915.3	888.7	888.7
55°	1155.7	1095.7	1002.2	902.0	861.8	821.8	748.2	701.5	668.1	654.7	641.4
57.5°	968.8	902.0	815.0	708.3	668.1	628.1	554.5	507.8	474.3	454.2	440.9
60°	815.0	741.7	654.7	561.3	514.5	474.3	401.0	354.0	320.6	300.7	287.2
62.5°	668.1	608.0	521.1	434.4	394.2	354.0	294.0	247.2	213.8	200.5	180.4
65°	561.3	501.0	420.8	347.5	314.1	273.9	220.6	180.4	153.8	133.7	120.3
67.5°	454.2	407.5	340.7	273.9	240.4	213.8	167.1	133.7	106.8	93.5	86.9
70°	360.8	314.1	260.5	207.0	187.2	160.3	126.9	93.5	80.1	66.8	60.0
72.5°	267.3	233.9	193.7	153.8	133.7	120.3	86.9	73.6	53.5	46.7	40.2
75°	193.7	167.1	140.2	106.8	93.5	86.9	66.8	46.7	40.2	33.4	26.6
77.5°	133.7	120.3	93.5	73.6	66.8	60.0	46.7	33.4	26.6	20.1	20.1
80°	86.9	73.6	60.0	46.7	46.7	40.2	26.6	20.1	20.1	13.3	13.3
82.5°	53.5	46.7	40.2	33.4	26.6	26.6	20.1	13.3	13.3	6.8	6.8
85°	33.4	26.6	20.1	20.1	13.3	13.3	13.3	6.8	6.8	6.8	6.8
87.5°	13.3	13.3	13.3	6.8	6.8	6.8	6.8	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°	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1
2.5°	5525.4	5525.4	5538.7	5518.6	5532.1	5532.1	5545.5	5518.6	5532.1	5538.7	5552.0
5°	5498.7	5505.3	5518.6	5512.0	5518.6	5518.6	5532.1	5498.7	5525.4	5525.4	5545.5
7.5°	5471.8	5471.8	5485.2	5478.6	5491.9	5498.7	5512.0	5485.2	5512.0	5512.0	5532.1
10°	5438.4	5438.4	5458.5	5451.8	5471.8	5478.6	5498.7	5471.8	5498.7	5505.3	5525.4
12.5°	5391.7	5398.5	5418.3	5418.3	5438.4	5451.8	5471.8	5458.5	5491.9	5498.7	5525.4
15°	5338.2	5351.8	5378.4	5371.6	5391.7	5411.8	5438.4	5418.3	5465.3	5478.6	5505.3
17.5°	5271.4	5284.9	5304.8	5304.8	5324.9	5338.2	5371.6	5358.3	5398.5	5405.0	5438.4
20°	5171.4	5191.2	5218.1	5211.3	5231.4	5244.7	5271.4	5258.0	5298.2	5311.6	5345.0
22.5°	5051.0	5064.3	5084.4	5084.4	5104.5	5117.8	5144.5	5124.4	5164.6	5171.4	5198.0
25°	4890.7	4904.0	4917.4	4924.1	4944.0	4950.8	4964.1	4950.8	4984.2	4991.0	5024.1
27.5°	4683.4	4690.2	4710.3	4710.3	4723.6	4730.2	4750.3	4723.6	4770.4	4770.4	4790.5
30°	4436.2	4429.7	4456.3	4443.0	4456.3	4456.3	4476.4	4463.1	4496.5	4483.2	4503.1
32.5°	4108.8	4122.4	4122.4	4108.8	4135.7	4128.9	4128.9	4115.6	4135.7	4142.3	4155.6
35°	3728.2	3748.1	3748.1	3754.8	3761.6	3741.5	3748.1	3708.1	3741.5	3748.1	3754.8
37.5°	3313.9	3293.8	3307.1	3287.0	3320.4	3280.5	3280.5	3253.9	3280.5	3280.5	3287.0
40°	2839.6	2832.8	2846.1	2832.8	2826.2	2819.5	2806.1	2786.0	2812.7	2799.4	2819.5
42.5°	2391.8	2385.1	2385.1	2371.7	2365.2	2365.2	2351.9	2338.3	2331.8	2331.8	2365.2
45°	1930.8	1944.1	1930.8	1924.3	1937.6	1924.3	1930.8	1904.2	1917.5	1904.2	1917.5
47.5°	1543.4	1549.9	1536.6	1523.3	1543.4	1523.3	1523.3	1503.2	1530.1	1530.1	1516.5
50°	1195.9	1189.1	1175.8	1189.1	1182.6	1182.6	1182.6	1162.5	1175.8	1155.7	1169.3
52.5°	881.9	875.3	875.3	868.6	875.3	868.6	868.6	861.8	861.8	855.2	861.8
55°	641.4	634.6	621.3	621.3	621.3	628.1	621.3	614.8	614.8	608.0	614.8
57.5°	434.4	420.8	420.8	420.8	420.8	414.3	414.3	407.5	414.3	407.5	414.3
60°	280.6	280.6	267.3	267.3	267.3	267.3	267.3	260.5	267.3	267.3	267.3
62.5°	173.6	173.6	167.1	160.3	167.1	160.3	160.3	160.3	167.1	160.3	167.1
65°	113.6	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8
67.5°	80.1	73.6	73.6	73.6	73.6	73.6	73.6	66.8	73.6	73.6	73.6
70°	53.5	53.5	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
72.5°	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
75°	26.6	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
77.5°	20.1	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
80°	13.3	13.3	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
85°	6.8	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	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
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: P684711

CATALOG NUMBER: LX6C90D010 EX6C909050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1	5532.1
2.5°	5532.1	5538.7	5525.4	5532.1	5518.6	5532.1	5538.7	5552.0
5°	5518.6	5525.4	5512.0	5525.4	5512.0	5525.4	5532.1	5545.5
7.5°	5505.3	5518.6	5505.3	5518.6	5505.3	5518.6	5525.4	5538.7
10°	5505.3	5525.4	5512.0	5532.1	5512.0	5525.4	5538.7	5545.5
12.5°	5505.3	5525.4	5518.6	5532.1	5525.4	5538.7	5552.0	5565.3
15°	5491.9	5512.0	5498.7	5518.6	5512.0	5518.6	5545.5	5545.5
17.5°	5418.3	5438.4	5438.4	5451.8	5451.8	5471.8	5485.2	5498.7
20°	5324.9	5345.0	5338.2	5358.3	5358.3	5378.4	5391.7	5405.0
22.5°	5184.7	5211.3	5204.5	5224.6	5218.1	5231.4	5258.0	5251.5
25°	5004.3	5037.7	5030.9	5044.2	5037.7	5037.7	5051.0	5057.5
27.5°	4783.7	4803.8	4797.0	4810.6	4797.0	4810.6	4823.9	4830.4
30°	4496.5	4509.8	4503.1	4509.8	4503.1	4516.4	4523.2	4536.5
32.5°	4149.0	4169.1	4149.0	4162.4	4155.6	4155.6	4182.5	4169.1
35°	3734.7	3741.5	3748.1	3748.1	3734.7	3741.5	3754.8	3754.8
37.5°	3273.7	3307.1	3267.2	3287.0	3280.5	3280.5	3280.5	3300.6
40°	2792.8	2799.4	2786.0	2786.0	2786.0	2779.3	2806.1	2799.4
42.5°	2338.3	2345.1	2338.3	2318.5	2325.0	2325.0	2345.1	2318.5
45°	1897.4	1910.7	1904.2	1904.2	1890.9	1890.9	1897.4	1884.1
47.5°	1503.2	1516.5	1496.7	1503.2	1489.9	1503.2	1496.7	1510.0
50°	1142.4	1155.7	1149.2	1155.7	1155.7	1142.4	1162.5	1135.9
52.5°	855.2	861.8	855.2	848.5	841.9	841.9	855.2	848.5
55°	608.0	601.2	601.2	601.2	608.0	608.0	601.2	594.7
57.5°	407.5	407.5	401.0	401.0	407.5	394.2	401.0	394.2
60°	260.5	260.5	260.5	260.5	254.0	260.5	260.5	260.5
62.5°	160.3	160.3	160.3	160.3	160.3	160.3	160.3	160.3
65°	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8
67.5°	66.8	73.6	73.6	73.6	66.8	66.8	66.8	66.8
70°	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
72.5°	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
75°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
77.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	6.8	6.8	6.8	6.8	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)