

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: P683927

Luminaire Tested: **LX6C100D010 EX6C1009050 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P683927
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: LX6C100D010 EX6C1009050 6LCSWH
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

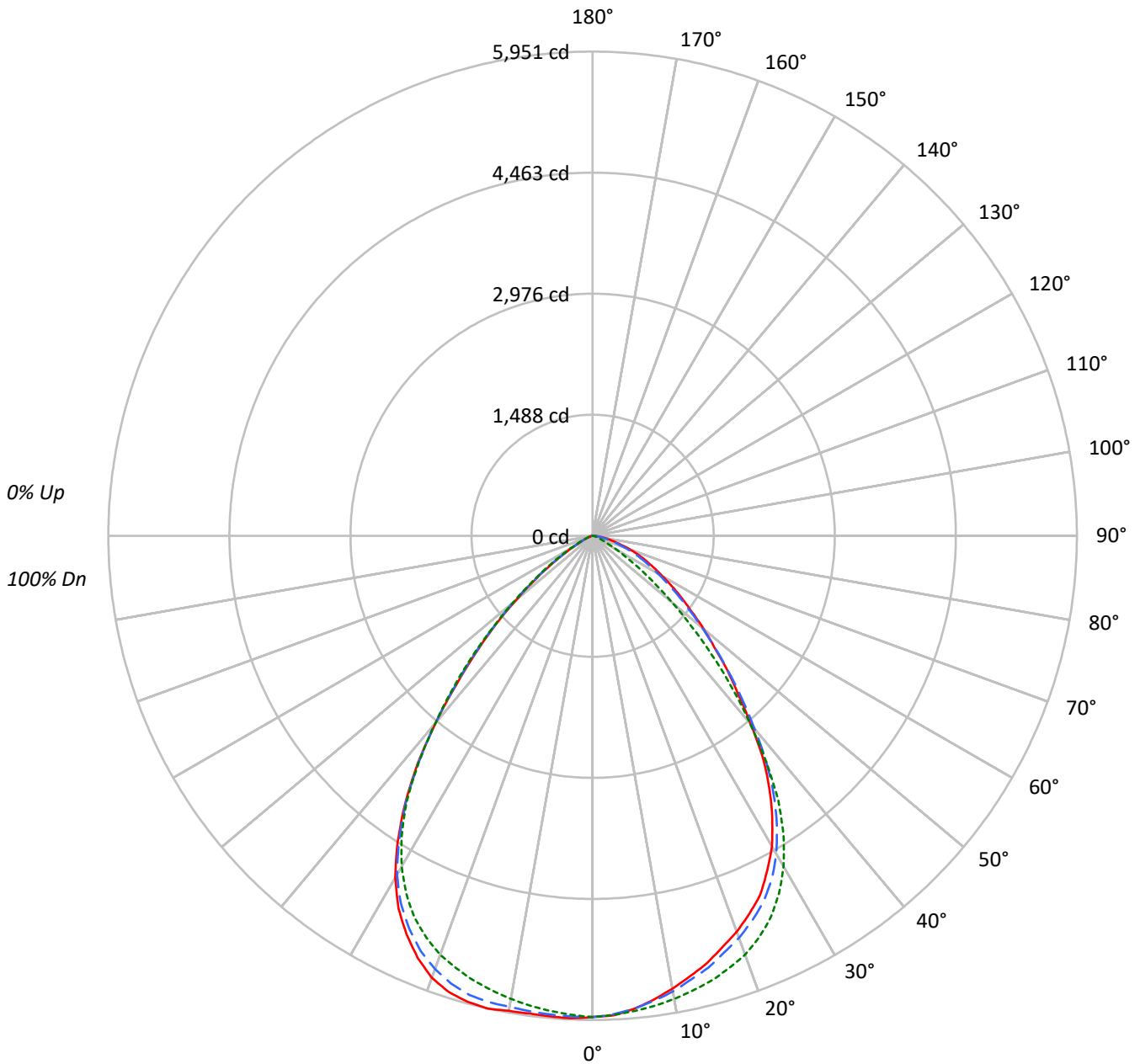
Lumens per Lamp: N/A
Luminaire Lumens: 9924.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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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CATALOG NUMBER: LX6C100D010 EX6C1009050 6LCSWH

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°	324283	324283	324283
5°	321191	322759	326309
10°	314573	321721	330082
15°	308555	321120	336534
20°	302152	319659	337167
25°	294713	313282	327110
30°	279030	297109	307060
35°	253398	266307	268696
40°	216269	215225	214208
45°	181662	161164	156187
50°	151722	109063	103587
55°	127690	66913	60777
60°	108094	35260	30546
65°	93603	18536	14814
70°	77850	11460	8014
75°	57527	7562	4554
80°	45113	4483	2305
85°	35978	4592	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.5	5.6
10°-20°	1596.2	16.1
20°-30°	2357.1	23.8
30°-40°	2429.2	24.5
40°-50°	1677.8	16.9
50°-60°	827.0	8.3
60°-70°	335.1	3.4
70°-80°	119.4	1.2
80°-90°	24.7	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°	4510.8	45.5
0°-40°	6940.0	69.9
0°-60°	9444.8	95.2
0°-90°	9924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9924.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5915	5915	5915	5915	5915	
5°	5837	5837	5865	5908	5930	551
15°	5437	5494	5658	5844	5930	1531
25°	4872	4965	5179	5330	5408	2227
35°	3786	3879	3979	4001	4015	2346
45°	2343	2357	2079	2050	2015	1811
55°	1336	1286	700	657	636	1207
65°	722	650	143	114	114	717
75°	272	229	36	22	22	305
85°	57	43	7	0	0	70
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°	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4
2.5°	5900.9	5879.7	5893.9	5865.2	5900.9	5865.2	5872.4	5879.7	5872.4	5879.7	5886.7
5°	5836.7	5815.2	5836.7	5801.0	5836.7	5815.2	5815.2	5822.5	5822.5	5829.5	5836.7
7.5°	5751.0	5729.5	5751.0	5715.3	5758.0	5736.8	5736.8	5751.0	5743.8	5751.0	5765.2
10°	5651.1	5622.3	5643.8	5622.3	5665.3	5636.6	5651.1	5651.1	5651.1	5672.3	5686.8
12.5°	5543.9	5515.1	5543.9	5508.1	5550.9	5529.6	5536.6	5558.1	5565.1	5579.6	5586.6
15°	5436.7	5401.0	5415.2	5393.7	5436.7	5415.2	5422.4	5450.9	5450.9	5472.4	5493.9
17.5°	5301.0	5272.3	5301.0	5272.3	5308.0	5293.8	5308.0	5329.5	5329.5	5351.0	5372.2
20°	5179.3	5150.8	5172.3	5150.8	5193.8	5172.3	5179.3	5208.1	5215.1	5236.5	5258.0
22.5°	5029.4	5007.9	5022.2	5000.9	5043.7	5029.4	5036.7	5065.1	5072.4	5086.6	5122.4
25°	4872.3	4829.3	4850.8	4836.5	4879.5	4858.0	4872.3	4900.7	4915.2	4936.5	4965.2
27.5°	4643.6	4622.1	4636.4	4636.4	4672.1	4650.9	4657.9	4686.6	4707.8	4729.3	4765.1
30°	4408.0	4372.3	4386.5	4393.5	4422.3	4408.0	4422.3	4450.7	4458.0	4486.5	4514.9
32.5°	4107.9	4093.4	4122.2	4107.9	4122.2	4122.2	4129.2	4150.7	4164.9	4179.4	4215.1
35°	3786.4	3757.9	3786.4	3772.1	3807.9	3786.4	3807.9	3829.3	3829.3	3857.8	3879.3
37.5°	3436.3	3400.6	3414.8	3414.8	3429.1	3422.1	3422.1	3457.8	3464.8	3486.3	3507.8
40°	3022.1	3007.5	3036.3	3029.0	3036.3	3036.3	3043.3	3064.8	3079.0	3086.3	3093.5
42.5°	2650.5	2657.5	2664.7	2664.7	2664.7	2664.7	2664.7	2693.2	2686.2	2707.7	2714.7
45°	2343.2	2314.7	2328.9	2321.9	2343.2	2321.9	2343.2	2364.7	2350.4	2371.9	2357.4
47.5°	2028.9	2028.9	2028.9	2021.9	2036.1	2028.9	2043.1	2050.3	2050.3	2050.3	2043.1
50°	1779.0	1757.5	1764.5	1764.5	1771.8	1764.5	1779.0	1786.0	1786.0	1771.8	1743.3
52.5°	1535.9	1528.9	1528.9	1543.1	1543.1	1535.9	1535.9	1535.9	1535.9	1514.7	1500.1
55°	1336.0	1321.8	1328.7	1328.7	1328.7	1328.7	1336.0	1328.7	1328.7	1307.3	1286.0
57.5°	1157.3	1143.1	1143.1	1143.1	1150.1	1143.1	1143.1	1143.1	1135.9	1114.4	1085.9
60°	985.9	978.7	985.9	985.9	992.9	985.9	985.9	985.9	971.7	950.2	921.5
62.5°	843.0	843.0	843.0	850.0	850.0	843.0	843.0	835.8	828.8	800.0	771.6
65°	721.6	714.3	721.6	721.6	728.6	728.6	721.6	714.3	707.4	678.6	650.1
67.5°	600.2	592.9	600.2	600.2	607.2	600.2	600.2	600.2	578.7	564.4	535.7
70°	485.7	478.7	478.7	478.7	485.7	471.5	478.7	478.7	464.5	443.0	414.3
72.5°	371.5	371.5	371.5	371.5	371.5	371.5	364.3	364.3	350.1	328.6	314.3
75°	271.6	271.6	278.6	278.6	271.6	271.6	271.6	264.4	257.1	242.9	228.6
77.5°	200.1	200.1	200.1	200.1	192.9	192.9	192.9	185.6	178.7	171.4	157.2
80°	142.9	142.9	142.9	135.7	142.9	135.7	135.7	135.7	121.4	114.2	107.2
82.5°	99.9	93.0	93.0	93.0	93.0	93.0	93.0	85.7	85.7	78.7	71.5
85°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	50.0	43.0	43.0
87.5°	28.5	35.7	35.7	35.7	35.7	35.7	35.7	28.5	28.5	28.5	21.5
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°	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4
2.5°	5886.7	5886.7	5900.9	5879.7	5915.4	5893.9	5886.7	5922.4	5900.9	5893.9	5908.2
5°	5836.7	5844.0	5850.9	5836.7	5872.4	5850.9	5850.9	5886.7	5872.4	5865.2	5886.7
7.5°	5772.5	5779.5	5793.7	5786.7	5815.2	5801.0	5808.2	5844.0	5829.5	5829.5	5850.9
10°	5693.8	5708.0	5722.5	5722.5	5758.0	5743.8	5743.8	5786.7	5772.5	5779.5	5808.2
12.5°	5600.8	5622.3	5643.8	5651.1	5686.8	5665.3	5672.3	5722.5	5715.3	5722.5	5751.0
15°	5500.9	5529.6	5550.9	5550.9	5593.8	5572.4	5593.8	5643.8	5629.6	5658.1	5693.8
17.5°	5386.7	5415.2	5443.7	5450.9	5493.9	5479.4	5508.1	5558.1	5558.1	5572.4	5615.3
20°	5279.5	5315.3	5329.5	5351.0	5393.7	5386.7	5401.0	5458.2	5458.2	5479.4	5522.4
22.5°	5136.6	5172.3	5200.8	5222.3	5258.0	5258.0	5279.5	5329.5	5329.5	5343.7	5386.7
25°	4979.4	5022.2	5043.7	5065.1	5100.9	5093.6	5115.1	5158.1	5165.1	5179.3	5222.3
27.5°	4779.3	4815.0	4843.8	4858.0	4908.0	4879.5	4900.7	4951.0	4943.7	4958.0	4993.7
30°	4529.5	4565.2	4593.7	4593.7	4636.4	4636.4	4657.9	4679.4	4679.4	4693.6	4722.3
32.5°	4236.4	4279.3	4279.3	4300.8	4329.3	4300.8	4329.3	4357.8	4343.5	4365.0	4386.5
35°	3900.5	3922.0	3929.3	3929.3	3950.8	3943.5	3936.3	3957.8	3943.5	3979.3	4000.7
37.5°	3493.5	3522.0	3507.8	3522.0	3514.8	3493.5	3493.5	3529.3	3500.5	3507.8	3529.3
40°	3100.5	3100.5	3093.5	3057.8	3064.8	3043.3	3036.3	3043.3	3014.8	3007.5	3036.3
42.5°	2693.2	2686.2	2664.7	2614.8	2621.8	2586.0	2557.6	2557.6	2543.3	2536.1	2543.3
45°	2328.9	2307.4	2271.7	2214.8	2200.3	2171.8	2114.6	2100.3	2078.8	2078.8	2086.1
47.5°	1993.1	1964.6	1907.4	1843.2	1807.5	1771.8	1714.5	1693.0	1657.3	1643.1	1657.3
50°	1714.5	1664.6	1593.1	1500.1	1464.4	1421.7	1364.5	1328.7	1293.0	1278.8	1271.5
52.5°	1457.4	1386.0	1314.5	1200.3	1171.6	1128.9	1050.2	1014.4	978.7	950.2	950.2
55°	1235.8	1171.6	1071.6	964.5	921.5	878.8	800.0	750.1	714.3	700.1	685.9
57.5°	1035.9	964.5	871.5	757.3	714.3	671.6	592.9	542.9	507.2	485.7	471.5
60°	871.5	793.1	700.1	600.2	550.2	507.2	428.8	378.5	342.8	321.6	307.1
62.5°	714.3	650.1	557.2	464.5	421.5	378.5	314.3	264.4	228.6	214.4	192.9
65°	600.2	535.7	450.0	371.5	335.8	292.8	235.9	192.9	164.4	142.9	128.7
67.5°	485.7	435.8	364.3	292.8	257.1	228.6	178.7	142.9	114.2	99.9	93.0
70°	385.8	335.8	278.6	221.4	200.1	171.4	135.7	99.9	85.7	71.5	64.2
72.5°	285.8	250.1	207.1	164.4	142.9	128.7	93.0	78.7	57.2	50.0	43.0
75°	207.1	178.7	149.9	114.2	99.9	93.0	71.5	50.0	43.0	35.7	28.5
77.5°	142.9	128.7	99.9	78.7	71.5	64.2	50.0	35.7	28.5	21.5	21.5
80°	93.0	78.7	64.2	50.0	50.0	43.0	28.5	21.5	21.5	14.2	14.2
82.5°	57.2	50.0	43.0	35.7	28.5	28.5	21.5	14.2	14.2	7.3	7.3
85°	35.7	28.5	21.5	21.5	14.2	14.2	14.2	7.3	7.3	7.3	7.3
87.5°	14.2	14.2	14.2	7.3	7.3	7.3	7.3	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°	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4
2.5°	5908.2	5908.2	5922.4	5900.9	5915.4	5915.4	5929.7	5900.9	5915.4	5922.4	5936.6
5°	5879.7	5886.7	5900.9	5893.9	5900.9	5900.9	5915.4	5879.7	5908.2	5908.2	5929.7
7.5°	5850.9	5850.9	5865.2	5858.2	5872.4	5879.7	5893.9	5865.2	5893.9	5893.9	5915.4
10°	5815.2	5815.2	5836.7	5829.5	5850.9	5858.2	5879.7	5850.9	5879.7	5886.7	5908.2
12.5°	5765.2	5772.5	5793.7	5793.7	5815.2	5829.5	5850.9	5836.7	5872.4	5879.7	5908.2
15°	5708.0	5722.5	5751.0	5743.8	5765.2	5786.7	5815.2	5793.7	5844.0	5858.2	5886.7
17.5°	5636.6	5651.1	5672.3	5672.3	5693.8	5708.0	5743.8	5729.5	5772.5	5779.5	5815.2
20°	5529.6	5550.9	5579.6	5572.4	5593.8	5608.1	5636.6	5622.3	5665.3	5679.5	5715.3
22.5°	5401.0	5415.2	5436.7	5436.7	5458.2	5472.4	5500.9	5479.4	5522.4	5529.6	5558.1
25°	5229.6	5243.8	5258.0	5265.3	5286.5	5293.8	5308.0	5293.8	5329.5	5336.7	5372.2
27.5°	5007.9	5015.2	5036.7	5036.7	5050.9	5057.9	5079.4	5050.9	5100.9	5100.9	5122.4
30°	4743.6	4736.6	4765.1	4750.8	4765.1	4765.1	4786.6	4772.3	4808.0	4793.8	4815.0
32.5°	4393.5	4408.0	4408.0	4393.5	4422.3	4415.0	4415.0	4400.8	4422.3	4429.2	4443.5
35°	3986.5	4007.7	4007.7	4015.0	4022.2	4000.7	4007.7	3965.0	4000.7	4007.7	4015.0
37.5°	3543.5	3522.0	3536.3	3514.8	3550.5	3507.8	3507.8	3479.3	3507.8	3507.8	3514.8
40°	3036.3	3029.0	3043.3	3029.0	3022.1	3014.8	3000.6	2979.1	3007.5	2993.3	3014.8
42.5°	2557.6	2550.3	2550.3	2536.1	2529.1	2529.1	2514.8	2500.3	2493.3	2493.3	2529.1
45°	2064.6	2078.8	2064.6	2057.6	2071.8	2057.6	2064.6	2036.1	2050.3	2036.1	2050.3
47.5°	1650.3	1657.3	1643.1	1628.8	1650.3	1628.8	1628.8	1607.3	1636.1	1636.1	1621.6
50°	1278.8	1271.5	1257.3	1271.5	1264.5	1264.5	1264.5	1243.0	1257.3	1235.8	1250.3
52.5°	943.0	936.0	936.0	928.7	936.0	928.7	928.7	921.5	921.5	914.5	921.5
55°	685.9	678.6	664.4	664.4	664.4	671.6	664.4	657.4	657.4	650.1	657.4
57.5°	464.5	450.0	450.0	450.0	450.0	443.0	443.0	435.8	443.0	435.8	443.0
60°	300.1	300.1	285.8	285.8	285.8	285.8	285.8	278.6	285.8	285.8	285.8
62.5°	185.6	185.6	178.7	171.4	178.7	171.4	171.4	171.4	178.7	171.4	178.7
65°	121.4	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
67.5°	85.7	78.7	78.7	78.7	78.7	78.7	78.7	71.5	78.7	78.7	78.7
70°	57.2	57.2	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
72.5°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
75°	28.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
77.5°	21.5	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
80°	14.2	14.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
85°	7.3	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	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
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: P683927

CATALOG NUMBER: LX6C100D010 EX6C1009050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4	5915.4
2.5°	5915.4	5922.4	5908.2	5915.4	5900.9	5915.4	5922.4	5936.6
5°	5900.9	5908.2	5893.9	5908.2	5893.9	5908.2	5915.4	5929.7
7.5°	5886.7	5900.9	5886.7	5900.9	5886.7	5900.9	5908.2	5922.4
10°	5886.7	5908.2	5893.9	5915.4	5893.9	5908.2	5922.4	5929.7
12.5°	5886.7	5908.2	5900.9	5915.4	5908.2	5922.4	5936.6	5950.9
15°	5872.4	5893.9	5879.7	5900.9	5893.9	5900.9	5929.7	5929.7
17.5°	5793.7	5815.2	5815.2	5829.5	5829.5	5850.9	5865.2	5879.7
20°	5693.8	5715.3	5708.0	5729.5	5729.5	5751.0	5765.2	5779.5
22.5°	5543.9	5572.4	5565.1	5586.6	5579.6	5593.8	5622.3	5615.3
25°	5351.0	5386.7	5379.5	5393.7	5386.7	5386.7	5401.0	5407.9
27.5°	5115.1	5136.6	5129.4	5143.9	5129.4	5143.9	5158.1	5165.1
30°	4808.0	4822.3	4815.0	4822.3	4815.0	4829.3	4836.5	4850.8
32.5°	4436.5	4458.0	4436.5	4450.7	4443.5	4443.5	4472.2	4458.0
35°	3993.5	4000.7	4007.7	4007.7	3993.5	4000.7	4015.0	4015.0
37.5°	3500.5	3536.3	3493.5	3514.8	3507.8	3507.8	3507.8	3529.3
40°	2986.3	2993.3	2979.1	2979.1	2979.1	2971.8	3000.6	2993.3
42.5°	2500.3	2507.6	2500.3	2479.1	2486.1	2486.1	2507.6	2479.1
45°	2028.9	2043.1	2036.1	2036.1	2021.9	2021.9	2028.9	2014.6
47.5°	1607.3	1621.6	1600.4	1607.3	1593.1	1607.3	1600.4	1614.6
50°	1221.6	1235.8	1228.8	1235.8	1235.8	1221.6	1243.0	1214.6
52.5°	914.5	921.5	914.5	907.2	900.2	900.2	914.5	907.2
55°	650.1	642.9	642.9	642.9	650.1	650.1	642.9	635.9
57.5°	435.8	435.8	428.8	428.8	435.8	421.5	428.8	421.5
60°	278.6	278.6	278.6	278.6	271.6	278.6	278.6	278.6
62.5°	171.4	171.4	171.4	171.4	171.4	171.4	171.4	171.4
65°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
67.5°	71.5	78.7	78.7	78.7	71.5	71.5	71.5	71.5
70°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
72.5°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
75°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
77.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
80°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	7.3	7.3	7.3	7.3	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)