

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: P684779

Luminaire Tested: **LX6C100D010 EX61009035 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C100D010 EX61009035 6LCSWLI
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

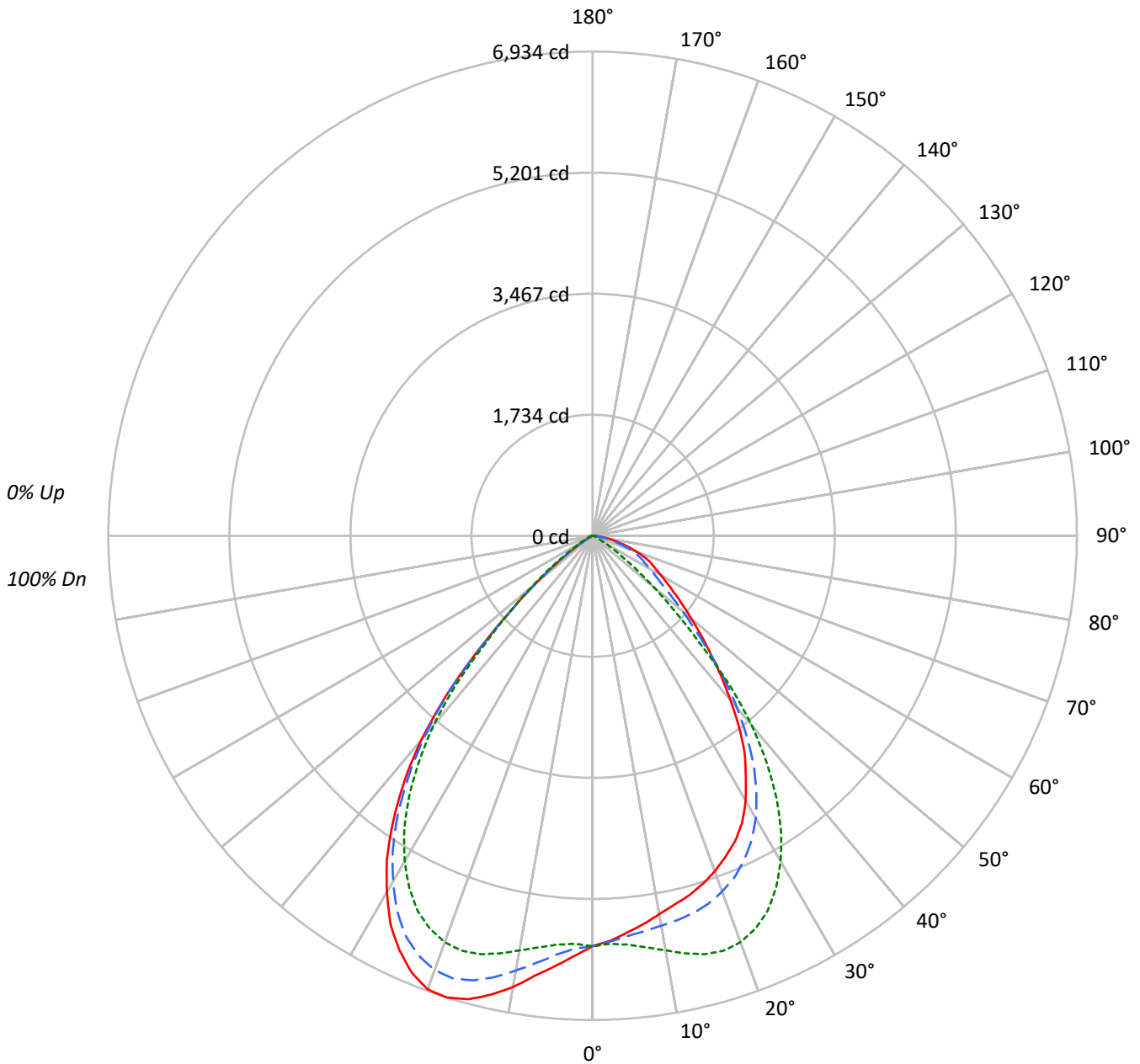
Lumens per Lamp: N/A
Luminaire Lumens: 10743.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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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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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	322195	322195	322195
5°	313839	323425	340424
10°	306201	335604	365324
15°	302624	352051	390002
20°	298284	361231	403177
25°	291948	358557	395944
30°	277429	340742	372747
35°	253819	307210	332782
40°	219547	253718	273019
45°	185143	166413	178592
50°	157180	96321	90581
55°	136406	46182	34895
60°	123203	21555	8618
65°	119520	12388	2906
70°	107166	9922	2709
75°	88070	7159	1207
80°	65602	3536	0
85°	56609	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.7	5.3
10°-20°	1730.1	16.1
20°-30°	2643.5	24.6
30°-40°	2764.8	25.7
40°-50°	1793.6	16.7
50°-60°	712.1	6.6
60°-70°	337.8	3.1
70°-80°	160.7	1.5
80°-90°	32.8	0.3
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°	4941.3	46.0
0°-40°	7706.1	71.7
0°-60°	10211.7	95.1
0°-90°	10743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10743.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5877	5877	5877	5877	5877	
5°	5703	5754	5877	6023	6186	538
15°	5332	5591	6203	6591	6872	1503
25°	4827	5130	5928	6327	6546	2210
35°	3793	4023	4590	4860	4973	2345
45°	2388	2366	2146	2276	2304	1858
55°	1427	1214	483	376	365	1293
65°	921	764	96	22	22	900
75°	416	337	34	11	6	448
85°	90	56	0	0	0	105
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°	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3
2.5°	5804.2	5815.4	5753.7	5736.8	5781.8	5798.5	5804.2	5787.3	5793.0	5815.4	5815.4
5°	5703.1	5714.3	5658.1	5641.2	5686.2	5697.6	5714.3	5708.8	5725.7	5759.2	5753.7
7.5°	5607.6	5624.5	5562.6	5540.2	5596.4	5624.5	5635.7	5635.7	5658.1	5703.1	5708.8
10°	5500.7	5523.3	5467.2	5455.8	5517.6	5545.7	5551.4	5562.6	5596.4	5658.1	5669.3
12.5°	5411.0	5433.4	5394.1	5377.2	5444.6	5472.7	5483.8	5506.4	5545.7	5624.5	5635.7
15°	5332.2	5349.1	5304.1	5292.9	5360.3	5394.1	5399.6	5433.4	5483.8	5573.8	5590.7
17.5°	5231.1	5242.3	5208.7	5197.5	5264.8	5298.4	5304.1	5343.4	5405.3	5495.3	5523.3
20°	5113.0	5124.4	5090.6	5079.4	5146.8	5186.1	5191.8	5225.6	5298.4	5394.1	5422.2
22.5°	4972.6	4995.2	4955.9	4944.5	5012.1	5045.6	5062.5	5090.6	5163.7	5259.1	5298.4
25°	4826.6	4826.6	4798.6	4792.8	4854.7	4894.0	4888.3	4927.6	5000.7	5096.3	5129.9
27.5°	4635.5	4629.8	4601.7	4596.2	4663.6	4697.4	4686.0	4725.5	4792.8	4888.3	4922.1
30°	4382.7	4393.9	4354.6	4343.2	4399.6	4455.8	4450.1	4489.4	4556.7	4646.7	4669.3
32.5°	4079.3	4090.4	4085.0	4068.1	4118.5	4146.6	4163.5	4191.6	4247.8	4343.2	4365.8
35°	3792.7	3775.8	3753.4	3753.4	3803.9	3848.9	3832.0	3865.7	3921.9	4017.4	4023.1
37.5°	3438.7	3433.0	3421.8	3410.6	3466.8	3478.0	3483.7	3506.1	3556.8	3635.3	3624.2
40°	3067.9	3073.4	3067.9	3045.3	3079.1	3124.1	3118.4	3129.8	3174.5	3230.7	3214.0
42.5°	2719.4	2719.4	2719.4	2697.0	2736.3	2758.9	2770.1	2764.4	2775.6	2826.3	2803.7
45°	2388.1	2393.6	2388.1	2382.4	2388.1	2399.3	2388.1	2382.4	2382.4	2399.3	2365.5
47.5°	2101.5	2101.5	2084.6	2067.7	2084.6	2090.1	2073.4	2056.5	2050.8	2045.3	1989.2
50°	1843.0	1837.3	1831.8	1803.7	1820.4	1826.1	1803.7	1792.3	1769.9	1741.9	1674.5
52.5°	1618.3	1612.6	1606.9	1578.8	1590.2	1595.7	1573.3	1550.7	1522.6	1500.3	1416.0
55°	1427.2	1421.5	1421.5	1404.8	1393.4	1404.8	1382.2	1365.3	1326.0	1297.9	1213.7
57.5°	1264.2	1264.2	1253.0	1236.1	1241.8	1241.8	1219.4	1196.8	1163.0	1129.4	1062.1
60°	1123.7	1123.7	1123.7	1106.8	1106.8	1106.8	1095.6	1073.2	1045.2	1011.4	944.0
62.5°	1011.4	1011.4	1005.7	989.0	994.5	994.5	983.3	960.9	932.8	910.2	842.8
65°	921.4	921.4	921.4	904.7	904.7	910.2	899.0	876.6	854.0	825.9	764.1
67.5°	809.1	803.6	803.6	792.2	797.9	803.6	792.2	775.5	747.4	730.5	674.3
70°	668.6	674.3	679.8	663.1	668.6	668.6	663.1	646.2	629.3	612.4	562.0
72.5°	545.1	545.1	539.4	533.9	533.9	539.4	528.2	511.3	500.1	488.9	449.4
75°	415.8	410.1	415.8	404.6	404.6	404.6	393.2	387.7	382.0	365.1	337.1
77.5°	303.5	297.8	297.8	286.6	292.3	292.3	286.6	275.4	264.0	258.5	235.9
80°	207.8	207.8	207.8	202.3	202.3	196.6	196.6	191.1	179.7	174.2	163.0
82.5°	140.4	140.4	140.4	134.9	134.9	134.9	129.2	123.5	118.1	112.4	101.2
85°	90.0	90.0	90.0	84.3	84.3	84.3	78.6	78.6	73.1	67.4	56.2
87.5°	50.5	50.5	50.5	45.0	45.0	45.0	45.0	45.0	39.3	33.8	28.1
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°	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3
2.5°	5854.7	5776.1	5826.6	5826.6	5809.9	5854.7	5883.0	5905.4	5899.7	5849.2	5843.5
5°	5809.9	5742.3	5798.5	5804.2	5787.3	5849.2	5888.5	5916.6	5922.3	5877.3	5883.0
7.5°	5776.1	5720.0	5793.0	5815.4	5809.9	5866.1	5911.1	5955.8	5978.4	5944.7	5950.4
10°	5759.2	5714.3	5793.0	5826.6	5832.3	5894.2	5961.5	6023.4	6051.5	6028.9	6045.8
12.5°	5736.8	5708.8	5798.5	5849.2	5871.6	5933.5	6017.7	6090.8	6135.8	6124.6	6158.2
15°	5714.3	5691.9	5798.5	5871.6	5899.7	5955.8	6051.5	6158.2	6208.8	6203.1	6248.1
17.5°	5658.1	5652.6	5764.9	5843.5	5883.0	5950.4	6040.1	6169.4	6220.0	6231.2	6287.4
20°	5568.3	5568.3	5691.9	5776.1	5821.1	5883.0	5995.3	6118.9	6180.8	6192.0	6253.8
22.5°	5444.6	5455.8	5573.8	5658.1	5725.7	5770.4	5888.5	6017.7	6073.9	6090.8	6158.2
25°	5281.7	5292.9	5405.3	5489.5	5562.6	5613.1	5725.7	5843.5	5911.1	5927.8	5978.4
27.5°	5068.2	5090.6	5197.5	5281.7	5343.4	5377.2	5495.3	5618.8	5669.3	5686.2	5736.8
30°	4820.9	4826.6	4933.3	5006.4	5068.2	5096.3	5197.5	5326.7	5366.0	5382.9	5455.8
32.5°	4517.5	4512.0	4613.1	4680.5	4731.0	4764.8	4871.4	4955.9	4995.2	5023.3	5062.5
35°	4152.3	4146.6	4219.7	4298.5	4337.7	4348.9	4455.8	4545.6	4568.1	4590.5	4641.2
37.5°	3742.2	3742.2	3803.9	3843.4	3888.1	3905.0	3955.7	4056.9	4096.1	4090.4	4129.7
40°	3309.5	3287.1	3331.9	3371.4	3382.6	3388.0	3438.7	3517.3	3545.4	3545.4	3573.5
42.5°	2854.4	2820.6	2826.3	2848.7	2859.9	2820.6	2854.4	2904.9	2888.0	2910.6	2916.3
45°	2371.2	2320.5	2298.1	2247.4	2258.8	2219.3	2197.0	2208.2	2202.7	2146.5	2157.7
47.5°	1977.7	1888.0	1848.5	1775.6	1758.8	1713.8	1685.7	1635.0	1590.2	1590.2	1561.9
50°	1646.4	1556.4	1477.7	1393.4	1365.3	1326.0	1264.2	1196.8	1163.0	1129.4	1101.3
52.5°	1382.2	1286.8	1191.1	1101.3	1062.1	1011.4	927.1	859.7	797.9	764.1	730.5
55°	1168.7	1062.1	960.9	865.2	814.8	764.1	679.8	601.2	528.2	483.2	455.1
57.5°	1005.7	904.7	797.9	696.7	651.7	595.5	505.8	421.3	353.9	303.5	275.4
60°	887.8	786.7	691.2	584.3	539.4	483.2	387.7	309.0	241.6	196.6	163.0
62.5°	786.7	696.7	595.5	500.1	455.1	398.9	309.0	230.4	168.5	123.5	95.5
65°	713.6	623.6	539.4	443.9	404.6	348.5	264.0	191.1	134.9	95.5	67.4
67.5°	629.3	550.6	466.3	387.7	348.5	303.5	224.7	163.0	112.4	78.6	56.2
70°	528.2	466.3	393.2	320.4	292.3	252.8	185.4	134.9	90.0	61.9	45.0
72.5°	421.3	370.8	314.7	258.5	235.9	196.6	151.6	106.9	67.4	45.0	33.8
75°	320.4	280.9	235.9	196.6	174.2	151.6	112.4	78.6	50.5	33.8	22.4
77.5°	219.2	202.3	168.5	134.9	123.5	106.9	73.1	50.5	33.8	22.4	11.2
80°	151.6	134.9	112.4	90.0	78.6	67.4	45.0	33.8	16.9	11.2	5.7
82.5°	95.5	78.6	67.4	56.2	50.5	39.3	28.1	16.9	11.2	5.7	5.7
85°	50.5	45.0	39.3	28.1	28.1	22.4	16.9	11.2	5.7	0.0	0.0
87.5°	28.1	22.4	16.9	11.2	11.2	5.7	5.7	5.7	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°	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3
2.5°	5911.1	5911.1	5905.4	5972.7	5894.2	5972.7	5933.5	5972.7	5916.6	5911.1	5916.6
5°	5955.8	5972.7	5978.4	6040.1	5967.3	6062.7	6028.9	6062.7	6023.4	6034.6	6051.5
7.5°	6045.8	6073.9	6068.4	6147.0	6073.9	6180.8	6158.2	6208.8	6169.4	6180.8	6203.1
10°	6147.0	6180.8	6186.2	6265.0	6197.4	6326.7	6298.6	6354.8	6321.2	6338.1	6366.2
12.5°	6265.0	6304.3	6310.0	6399.8	6326.7	6461.6	6444.7	6500.9	6472.8	6489.7	6523.5
15°	6354.8	6411.0	6422.4	6512.1	6433.5	6574.0	6562.8	6635.9	6590.9	6619.0	6647.1
17.5°	6399.8	6450.4	6472.8	6557.1	6489.7	6630.2	6619.0	6680.8	6647.1	6675.1	6708.9
20°	6371.7	6433.5	6450.4	6534.7	6467.3	6607.8	6590.9	6652.8	6619.0	6641.4	6675.1
22.5°	6270.5	6332.4	6354.8	6433.5	6371.7	6500.9	6495.4	6551.6	6506.6	6534.7	6562.8
25°	6090.8	6158.2	6169.4	6242.4	6175.1	6310.0	6298.6	6360.5	6326.7	6343.6	6382.9
27.5°	5832.3	5911.1	5927.8	5989.6	5939.2	6051.5	6051.5	6102.0	6062.7	6062.7	6102.0
30°	5523.3	5601.9	5613.1	5663.8	5618.8	5720.0	5725.7	5776.1	5714.3	5748.0	5753.7
32.5°	5146.8	5197.5	5231.1	5276.0	5208.7	5337.9	5321.0	5360.3	5326.7	5326.7	5354.8
35°	4691.7	4753.6	4770.5	4826.6	4770.5	4871.4	4871.4	4894.0	4860.2	4860.2	4905.2
37.5°	4197.3	4242.3	4247.8	4304.0	4259.0	4343.2	4337.7	4354.6	4320.9	4343.2	4343.2
40°	3618.4	3652.2	3663.4	3691.5	3686.0	3747.7	3742.2	3753.4	3736.5	3742.2	3753.4
42.5°	2944.3	2989.1	3011.7	3034.1	3000.5	3084.8	3067.9	3084.8	3079.1	3084.8	3101.7
45°	2168.9	2202.7	2219.3	2225.0	2213.9	2264.3	2303.6	2270.0	2275.5	2264.3	2286.9
47.5°	1567.6	1573.3	1561.9	1595.7	1567.6	1590.2	1601.4	1606.9	1573.3	1567.6	1590.2
50°	1073.2	1101.3	1062.1	1078.7	1073.2	1095.6	1084.4	1090.1	1056.3	1073.2	1062.1
52.5°	713.6	707.9	696.7	702.4	691.2	691.2	691.2	702.4	679.8	668.6	657.4
55°	432.7	421.3	398.9	393.2	393.2	398.9	387.7	376.5	376.5	370.8	370.8
57.5°	252.8	235.9	224.7	219.2	207.8	202.3	196.6	196.6	185.4	185.4	185.4
60°	140.4	123.5	112.4	101.2	101.2	95.5	90.0	84.3	84.3	84.3	78.6
62.5°	73.1	61.9	50.5	45.0	45.0	39.3	33.8	33.8	33.8	33.8	28.1
65°	50.5	39.3	33.8	28.1	28.1	22.4	22.4	22.4	22.4	22.4	22.4
67.5°	39.3	33.8	28.1	22.4	22.4	22.4	16.9	16.9	16.9	16.9	16.9
70°	33.8	22.4	22.4	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
72.5°	22.4	22.4	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
75°	16.9	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0
80°	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P684779

CATALOG NUMBER: LX6C100D010 EX61009035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3
2.5°	5967.3	5961.5	5967.3	5978.4	5955.8	6023.4	5989.6	6023.4
5°	6096.5	6102.0	6107.7	6124.6	6096.5	6180.8	6135.8	6186.2
7.5°	6265.0	6270.5	6276.2	6293.1	6276.2	6360.5	6310.0	6354.8
10°	6439.2	6450.4	6450.4	6478.5	6461.6	6540.2	6506.6	6562.8
12.5°	6602.1	6613.3	6624.7	6641.4	6630.2	6714.4	6686.3	6731.3
15°	6731.3	6753.7	6759.4	6781.8	6770.6	6860.6	6826.8	6871.8
17.5°	6793.2	6815.6	6815.6	6843.7	6832.5	6927.9	6883.0	6933.6
20°	6759.4	6776.3	6781.8	6810.1	6798.7	6894.4	6849.4	6911.0
22.5°	6652.8	6658.2	6664.0	6692.0	6686.3	6770.6	6731.3	6770.6
25°	6455.9	6472.8	6467.3	6489.7	6489.7	6557.1	6512.1	6545.9
27.5°	6175.1	6192.0	6192.0	6220.0	6197.4	6265.0	6220.0	6270.5
30°	5832.3	5849.2	5838.0	5860.4	5838.0	5905.4	5871.6	5888.5
32.5°	5422.2	5422.2	5427.7	5433.4	5422.2	5483.8	5450.3	5483.8
35°	4933.3	4944.5	4950.2	4955.9	4944.5	4989.5	4950.2	4972.6
37.5°	4382.7	4410.8	4405.1	4410.8	4393.9	4450.1	4416.3	4427.7
40°	3792.7	3792.7	3787.0	3798.4	3781.5	3826.5	3803.9	3815.1
42.5°	3107.2	3124.1	3101.7	3129.8	3084.8	3146.4	3124.1	3107.2
45°	2331.9	2309.3	2303.6	2309.3	2292.4	2298.1	2315.0	2303.6
47.5°	1590.2	1590.2	1578.8	1561.9	1584.5	1590.2	1567.6	1567.6
50°	1067.5	1067.5	1056.3	1050.6	1062.1	1056.3	1045.2	1062.1
52.5°	679.8	657.4	657.4	668.6	657.4	646.2	663.1	651.7
55°	370.8	359.6	359.6	370.8	359.6	359.6	353.9	365.1
57.5°	179.7	185.4	179.7	179.7	179.7	179.7	174.2	179.7
60°	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
62.5°	33.8	33.8	28.1	28.1	28.1	28.1	28.1	28.1
65°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
67.5°	16.9	16.9	16.9	16.9	16.9	22.4	16.9	16.9
70°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
72.5°	16.9	16.9	22.4	22.4	22.4	22.4	22.4	22.4
75°	11.2	11.2	11.2	5.7	5.7	5.7	5.7	5.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)