

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: P684774

Luminaire Tested: **LX6C100D010 EX61009030 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684774
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 EX61009030 6LCSWLI
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

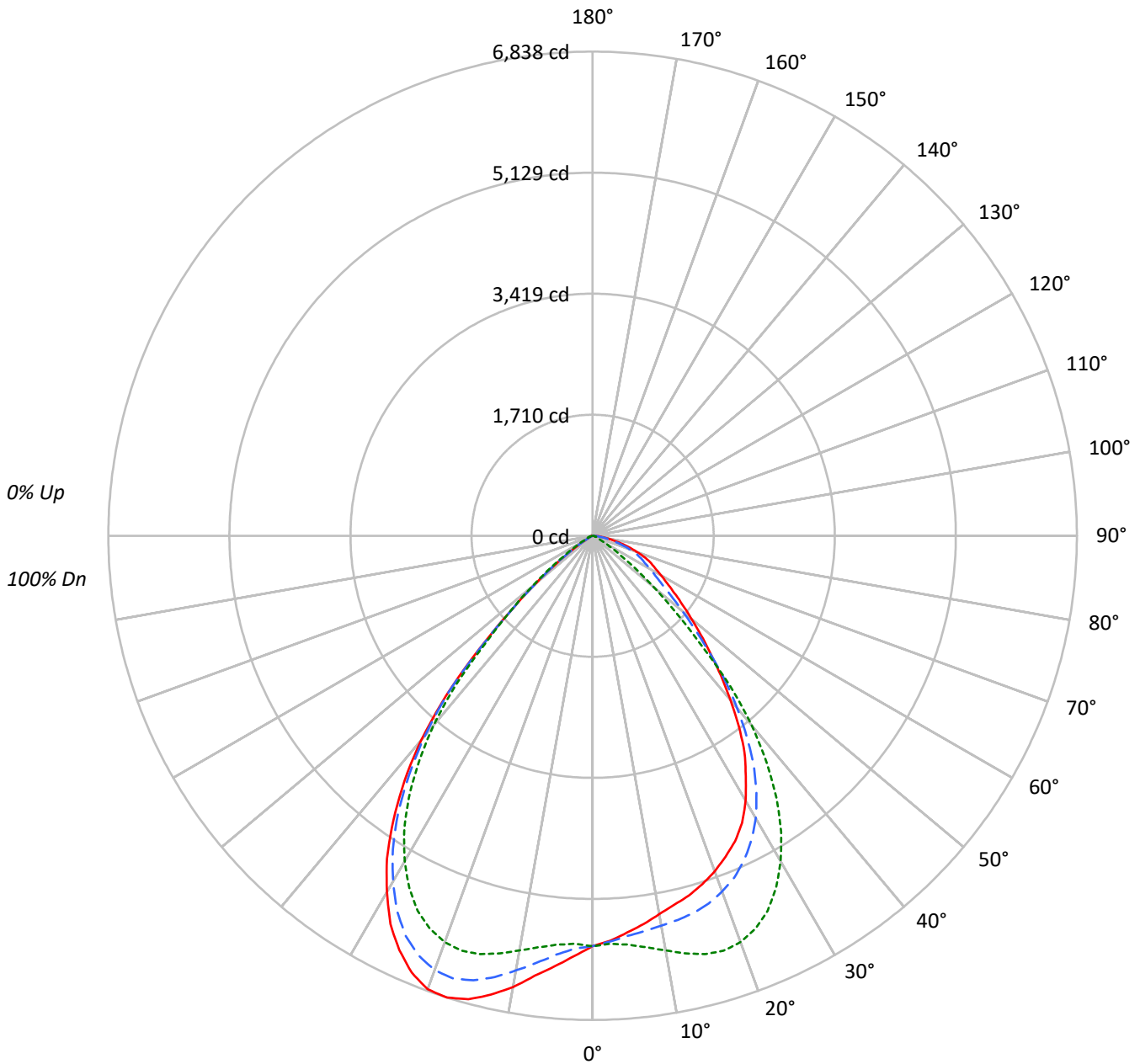
Lumens per Lamp: N/A
Luminaire Lumens: 10594.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	317727	317727	317727
5°	309486	318940	335702
10°	301959	330950	360258
15°	298430	347170	384588
20°	294148	356220	397588
25°	287902	353579	390452
30°	273580	336014	367576
35°	250299	302954	328164
40°	216498	250197	269226
45°	182577	164102	176119
50°	155006	94990	89319
55°	134514	45542	34417
60°	121492	21259	8497
65°	117860	12206	2867
70°	105675	9777	2677
75°	86863	7053	1186
80°	64686	3473	0
85°	55791	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.8	5.3
10°-20°	1706.1	16.1
20°-30°	2606.8	24.6
30°-40°	2726.5	25.7
40°-50°	1768.7	16.7
50°-60°	702.3	6.6
60°-70°	333.1	3.1
70°-80°	158.4	1.5
80°-90°	32.3	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°	4872.7	46.0
0°-40°	7599.2	71.7
0°-60°	10070.1	95.1
0°-90°	10594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10594.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5796	5796	5796	5796	5796	
5°	5624	5674	5796	5940	6100	531
15°	5258	5513	6117	6500	6776	1482
25°	4760	5059	5846	6239	6455	2180
35°	3740	3967	4527	4793	4904	2313
45°	2355	2333	2117	2244	2272	1832
55°	1407	1197	476	371	360	1275
65°	909	754	94	22	22	888
75°	410	332	33	11	6	442
85°	89	55	0	0	0	103
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°	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8
2.5°	5723.7	5734.8	5673.9	5657.3	5701.6	5718.1	5723.7	5707.1	5712.7	5734.8	5734.8
5°	5624.0	5635.0	5579.6	5562.9	5607.3	5618.5	5635.0	5629.6	5646.2	5679.4	5673.9
7.5°	5529.8	5546.5	5485.5	5463.4	5518.8	5546.5	5557.5	5557.5	5579.6	5624.0	5629.6
10°	5424.5	5446.7	5391.3	5380.1	5441.1	5468.8	5474.4	5485.5	5518.8	5579.6	5590.6
12.5°	5335.9	5358.0	5319.3	5302.6	5369.1	5396.8	5407.8	5430.1	5468.8	5546.5	5557.5
15°	5258.3	5274.9	5230.6	5219.5	5286.0	5319.3	5324.7	5358.0	5407.8	5496.5	5513.2
17.5°	5158.5	5169.5	5136.4	5125.4	5191.8	5224.9	5230.6	5269.3	5330.3	5419.0	5446.7
20°	5042.1	5053.3	5020.0	5009.0	5075.4	5114.1	5119.8	5153.1	5224.9	5319.3	5347.0
22.5°	4903.6	4925.9	4887.1	4875.9	4942.5	4975.7	4992.3	5020.0	5092.1	5186.2	5224.9
25°	4759.7	4759.7	4732.0	4726.4	4787.4	4826.1	4820.5	4859.2	4931.3	5025.6	5058.8
27.5°	4571.2	4565.6	4537.9	4532.5	4598.9	4632.2	4621.0	4659.9	4726.4	4820.5	4853.8
30°	4321.9	4333.0	4294.2	4283.0	4338.6	4394.0	4388.4	4427.1	4493.5	4582.3	4604.5
32.5°	4022.7	4033.7	4028.3	4011.6	4061.4	4089.1	4105.8	4133.5	4188.9	4283.0	4305.3
35°	3740.1	3723.4	3701.3	3701.3	3751.1	3795.5	3778.8	3812.1	3867.5	3961.7	3967.3
37.5°	3391.0	3385.4	3374.4	3363.3	3418.7	3429.8	3435.4	3457.5	3507.5	3584.9	3573.9
40°	3025.3	3030.8	3025.3	3003.1	3036.4	3080.7	3075.1	3086.4	3130.5	3185.9	3169.5
42.5°	2681.7	2681.7	2681.7	2659.6	2698.4	2720.7	2731.7	2726.1	2737.1	2787.1	2764.8
45°	2355.0	2360.4	2355.0	2349.3	2355.0	2366.0	2355.0	2349.3	2349.3	2366.0	2332.7
47.5°	2072.4	2072.4	2055.7	2039.0	2055.7	2061.1	2044.7	2028.0	2022.4	2017.0	1961.6
50°	1817.5	1811.8	1806.4	1778.7	1795.2	1800.8	1778.7	1767.5	1745.4	1717.7	1651.3
52.5°	1595.9	1590.2	1584.6	1556.9	1568.2	1573.6	1551.5	1529.2	1501.5	1479.5	1396.4
55°	1407.4	1401.8	1401.8	1385.3	1374.1	1385.3	1363.0	1346.4	1307.6	1279.9	1196.8
57.5°	1246.6	1246.6	1235.6	1218.9	1224.5	1224.5	1202.5	1180.2	1146.9	1113.8	1047.3
60°	1108.1	1108.1	1108.1	1091.5	1091.5	1091.5	1080.4	1058.4	1030.7	997.3	930.9
62.5°	997.3	997.3	991.7	975.3	980.7	980.7	969.6	947.6	919.9	897.6	831.2
65°	908.6	908.6	908.6	892.2	892.2	897.6	886.5	864.5	842.2	814.5	753.5
67.5°	797.8	792.4	792.4	781.2	786.8	792.4	781.2	764.7	737.0	720.4	665.0
70°	659.3	665.0	670.4	653.9	659.3	659.3	653.9	637.3	620.6	603.9	554.2
72.5°	537.5	537.5	531.9	526.5	526.5	531.9	520.8	504.2	493.2	482.1	443.2
75°	410.1	404.4	410.1	399.0	399.0	399.0	387.8	382.4	376.7	360.1	332.4
77.5°	299.3	293.6	293.6	282.6	288.2	288.2	282.6	271.6	260.3	254.9	232.6
80°	204.9	204.9	204.9	199.5	199.5	193.9	193.9	188.5	177.2	171.8	160.8
82.5°	138.5	138.5	138.5	133.1	133.1	133.1	127.5	121.8	116.4	110.8	99.8
85°	88.7	88.7	88.7	83.1	83.1	83.1	77.5	77.5	72.1	66.4	55.4
87.5°	49.8	49.8	49.8	44.4	44.4	44.4	44.4	44.4	38.7	33.3	27.7
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°	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8
2.5°	5773.5	5696.0	5745.8	5745.8	5729.3	5773.5	5801.4	5823.5	5817.8	5768.1	5762.4
5°	5729.3	5662.7	5718.1	5723.7	5707.1	5768.1	5806.8	5834.5	5840.1	5795.8	5801.4
7.5°	5696.0	5640.6	5712.7	5734.8	5729.3	5784.7	5829.1	5873.2	5895.5	5862.2	5867.8
10°	5679.4	5635.0	5712.7	5745.8	5751.4	5812.4	5878.9	5939.9	5967.6	5945.3	5962.0
12.5°	5657.3	5629.6	5718.1	5768.1	5790.1	5851.2	5934.3	6006.3	6050.7	6039.6	6072.8
15°	5635.0	5612.9	5718.1	5790.1	5817.8	5873.2	5967.6	6072.8	6122.7	6117.1	6161.5
17.5°	5579.6	5574.2	5685.0	5762.4	5801.4	5867.8	5956.3	6083.8	6133.8	6144.8	6200.2
20°	5491.1	5491.1	5612.9	5696.0	5740.4	5801.4	5912.2	6034.0	6095.0	6106.1	6167.1
22.5°	5369.1	5380.1	5496.5	5579.6	5646.2	5690.4	5806.8	5934.3	5989.7	6006.3	6072.8
25°	5208.5	5219.5	5330.3	5413.4	5485.5	5535.2	5646.2	5762.4	5829.1	5845.5	5895.5
27.5°	4997.9	5020.0	5125.4	5208.5	5269.3	5302.6	5419.0	5540.9	5590.6	5607.3	5657.3
30°	4754.1	4759.7	4864.9	4936.9	4997.9	5025.6	5125.4	5252.8	5291.6	5308.2	5380.1
32.5°	4454.8	4449.4	4549.1	4615.6	4665.4	4698.7	4803.8	4887.1	4925.9	4953.6	4992.3
35°	4094.7	4089.1	4161.2	4238.8	4277.6	4288.6	4394.0	4482.5	4504.8	4526.9	4576.8
37.5°	3690.3	3690.3	3751.1	3790.1	3834.2	3850.9	3900.8	4000.6	4039.3	4033.7	4072.5
40°	3263.6	3241.5	3285.7	3324.6	3335.6	3341.1	3391.0	3468.5	3496.2	3496.2	3523.9
42.5°	2814.8	2781.5	2787.1	2809.2	2820.2	2781.5	2814.8	2864.6	2847.9	2870.2	2875.8
45°	2338.3	2288.3	2266.2	2216.3	2227.5	2188.6	2166.5	2177.5	2172.1	2116.7	2127.8
47.5°	1950.3	1861.8	1822.9	1751.0	1734.4	1690.0	1662.3	1612.3	1568.2	1568.2	1540.3
50°	1623.6	1534.8	1457.2	1374.1	1346.4	1307.6	1246.6	1180.2	1146.9	1113.8	1086.1
52.5°	1363.0	1268.9	1174.6	1086.1	1047.3	997.3	914.2	847.8	786.8	753.5	720.4
55°	1152.5	1047.3	947.6	853.2	803.5	753.5	670.4	592.9	520.8	476.5	448.8
57.5°	991.7	892.2	786.8	687.0	642.7	587.3	498.8	415.5	349.0	299.3	271.6
60°	875.5	775.8	681.6	576.2	531.9	476.5	382.4	304.7	238.2	193.9	160.8
62.5°	775.8	687.0	587.3	493.2	448.8	393.4	304.7	227.2	166.2	121.8	94.1
65°	703.7	615.0	531.9	437.8	399.0	343.6	260.3	188.5	133.1	94.1	66.4
67.5°	620.6	542.9	459.8	382.4	343.6	299.3	221.6	160.8	110.8	77.5	55.4
70°	520.8	459.8	387.8	315.9	288.2	249.3	182.8	133.1	88.7	61.0	44.4
72.5°	415.5	365.7	310.3	254.9	232.6	193.9	149.5	105.4	66.4	44.4	33.3
75°	315.9	277.0	232.6	193.9	171.8	149.5	110.8	77.5	49.8	33.3	22.1
77.5°	216.2	199.5	166.2	133.1	121.8	105.4	72.1	49.8	33.3	22.1	11.0
80°	149.5	133.1	110.8	88.7	77.5	66.4	44.4	33.3	16.7	11.0	5.6
82.5°	94.1	77.5	66.4	55.4	49.8	38.7	27.7	16.7	11.0	5.6	5.6
85°	49.8	44.4	38.7	27.7	27.7	22.1	16.7	11.0	5.6	0.0	0.0
87.5°	27.7	22.1	16.7	11.0	11.0	5.6	5.6	5.6	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°	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8
2.5°	5829.1	5829.1	5823.5	5889.9	5812.4	5889.9	5851.2	5889.9	5834.5	5829.1	5834.5
5°	5873.2	5889.9	5895.5	5956.3	5884.5	5978.6	5945.3	5978.6	5939.9	5950.9	5967.6
7.5°	5962.0	5989.7	5984.2	6061.7	5989.7	6095.0	6072.8	6122.7	6083.8	6095.0	6117.1
10°	6061.7	6095.0	6100.4	6178.1	6111.5	6238.9	6211.2	6266.6	6233.5	6250.2	6277.9
12.5°	6178.1	6216.9	6222.5	6311.0	6238.9	6372.0	6355.4	6410.8	6383.1	6399.7	6433.0
15°	6266.6	6322.0	6333.3	6421.8	6344.3	6482.8	6471.8	6543.8	6499.5	6527.2	6554.9
17.5°	6311.0	6361.0	6383.1	6466.1	6399.7	6538.2	6527.2	6588.2	6554.9	6582.6	6615.9
20°	6283.3	6344.3	6361.0	6444.1	6377.6	6516.1	6499.5	6560.5	6527.2	6549.2	6582.6
22.5°	6183.5	6244.6	6266.6	6344.3	6283.3	6410.8	6405.3	6460.7	6416.4	6444.1	6471.8
25°	6006.3	6072.8	6083.8	6155.8	6089.4	6222.5	6211.2	6272.3	6238.9	6255.6	6294.3
27.5°	5751.4	5829.1	5845.5	5906.6	5856.8	5967.6	5967.6	6017.4	5978.6	5978.6	6017.4
30°	5446.7	5524.2	5535.2	5585.2	5540.9	5640.6	5646.2	5696.0	5635.0	5668.3	5673.9
32.5°	5075.4	5125.4	5158.5	5202.9	5136.4	5263.9	5247.2	5286.0	5252.8	5252.8	5280.5
35°	4626.6	4687.6	4704.3	4759.7	4704.3	4803.8	4803.8	4826.1	4792.8	4792.8	4837.2
37.5°	4139.1	4183.5	4188.9	4244.3	4199.9	4283.0	4277.6	4294.2	4260.9	4283.0	4283.0
40°	3568.3	3601.6	3612.6	3640.3	3634.9	3695.7	3690.3	3701.3	3684.7	3690.3	3701.3
42.5°	2903.5	2947.7	2969.9	2992.0	2958.9	3042.0	3025.3	3042.0	3036.4	3042.0	3058.7
45°	2138.8	2172.1	2188.6	2194.2	2183.2	2232.9	2271.7	2238.5	2244.0	2232.9	2255.2
47.5°	1545.9	1551.5	1540.3	1573.6	1545.9	1568.2	1579.2	1584.6	1551.5	1545.9	1568.2
50°	1058.4	1086.1	1047.3	1063.8	1058.4	1080.4	1069.4	1075.0	1041.7	1058.4	1047.3
52.5°	703.7	698.1	687.0	692.7	681.6	681.6	681.6	692.7	670.4	659.3	648.3
55°	426.7	415.5	393.4	387.8	387.8	393.4	382.4	371.3	371.3	365.7	365.7
57.5°	249.3	232.6	221.6	216.2	204.9	199.5	193.9	193.9	182.8	182.8	182.8
60°	138.5	121.8	110.8	99.8	99.8	94.1	88.7	83.1	83.1	83.1	77.5
62.5°	72.1	61.0	49.8	44.4	44.4	38.7	33.3	33.3	33.3	33.3	27.7
65°	49.8	38.7	33.3	27.7	27.7	22.1	22.1	22.1	22.1	22.1	22.1
67.5°	38.7	33.3	27.7	22.1	22.1	22.1	16.7	16.7	16.7	16.7	16.7
70°	33.3	22.1	22.1	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
72.5°	22.1	22.1	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
75°	16.7	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	0.0	0.0	0.0	0.0	0.0
80°	5.6	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: P684774

CATALOG NUMBER: LX6C100D010 EX61009030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8	5795.8
2.5°	5884.5	5878.9	5884.5	5895.5	5873.2	5939.9	5906.6	5939.9
5°	6011.9	6017.4	6023.0	6039.6	6011.9	6095.0	6050.7	6100.4
7.5°	6178.1	6183.5	6189.2	6205.8	6189.2	6272.3	6222.5	6266.6
10°	6349.9	6361.0	6361.0	6388.7	6372.0	6449.5	6416.4	6471.8
12.5°	6510.5	6521.5	6532.8	6549.2	6538.2	6621.3	6593.6	6638.0
15°	6638.0	6660.0	6665.7	6687.7	6676.7	6765.4	6732.1	6776.4
17.5°	6699.0	6721.1	6721.1	6748.8	6737.7	6831.8	6787.5	6837.5
20°	6665.7	6682.3	6687.7	6715.6	6704.4	6798.7	6754.4	6815.2
22.5°	6560.5	6565.9	6571.5	6599.2	6593.6	6676.7	6638.0	6676.7
25°	6366.4	6383.1	6377.6	6399.7	6399.7	6466.1	6421.8	6455.1
27.5°	6089.4	6106.1	6106.1	6133.8	6111.5	6178.1	6133.8	6183.5
30°	5751.4	5768.1	5757.0	5779.1	5757.0	5823.5	5790.1	5806.8
32.5°	5347.0	5347.0	5352.4	5358.0	5347.0	5407.8	5374.7	5407.8
35°	4864.9	4875.9	4881.5	4887.1	4875.9	4920.3	4881.5	4903.6
37.5°	4321.9	4349.6	4344.0	4349.6	4333.0	4388.4	4355.1	4366.3
40°	3740.1	3740.1	3734.5	3745.7	3729.0	3773.4	3751.1	3762.1
42.5°	3064.1	3080.7	3058.7	3086.4	3042.0	3102.8	3080.7	3064.1
45°	2299.6	2277.3	2271.7	2277.3	2260.6	2266.2	2282.9	2271.7
47.5°	1568.2	1568.2	1556.9	1540.3	1562.5	1568.2	1545.9	1545.9
50°	1052.7	1052.7	1041.7	1036.1	1047.3	1041.7	1030.7	1047.3
52.5°	670.4	648.3	648.3	659.3	648.3	637.3	653.9	642.7
55°	365.7	354.7	354.7	365.7	354.7	354.7	349.0	360.1
57.5°	177.2	182.8	177.2	177.2	177.2	177.2	171.8	177.2
60°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
62.5°	33.3	33.3	27.7	27.7	27.7	27.7	27.7	27.7
65°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
67.5°	16.7	16.7	16.7	16.7	16.7	22.1	16.7	16.7
70°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
72.5°	16.7	16.7	22.1	22.1	22.1	22.1	22.1	22.1
75°	11.0	11.0	11.0	5.6	5.6	5.6	5.6	5.6
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)