

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: P683897

Luminaire Tested: **LX6C100D010 EX6C1009035 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P683897  
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 EX6C1009035 6LCSWH  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

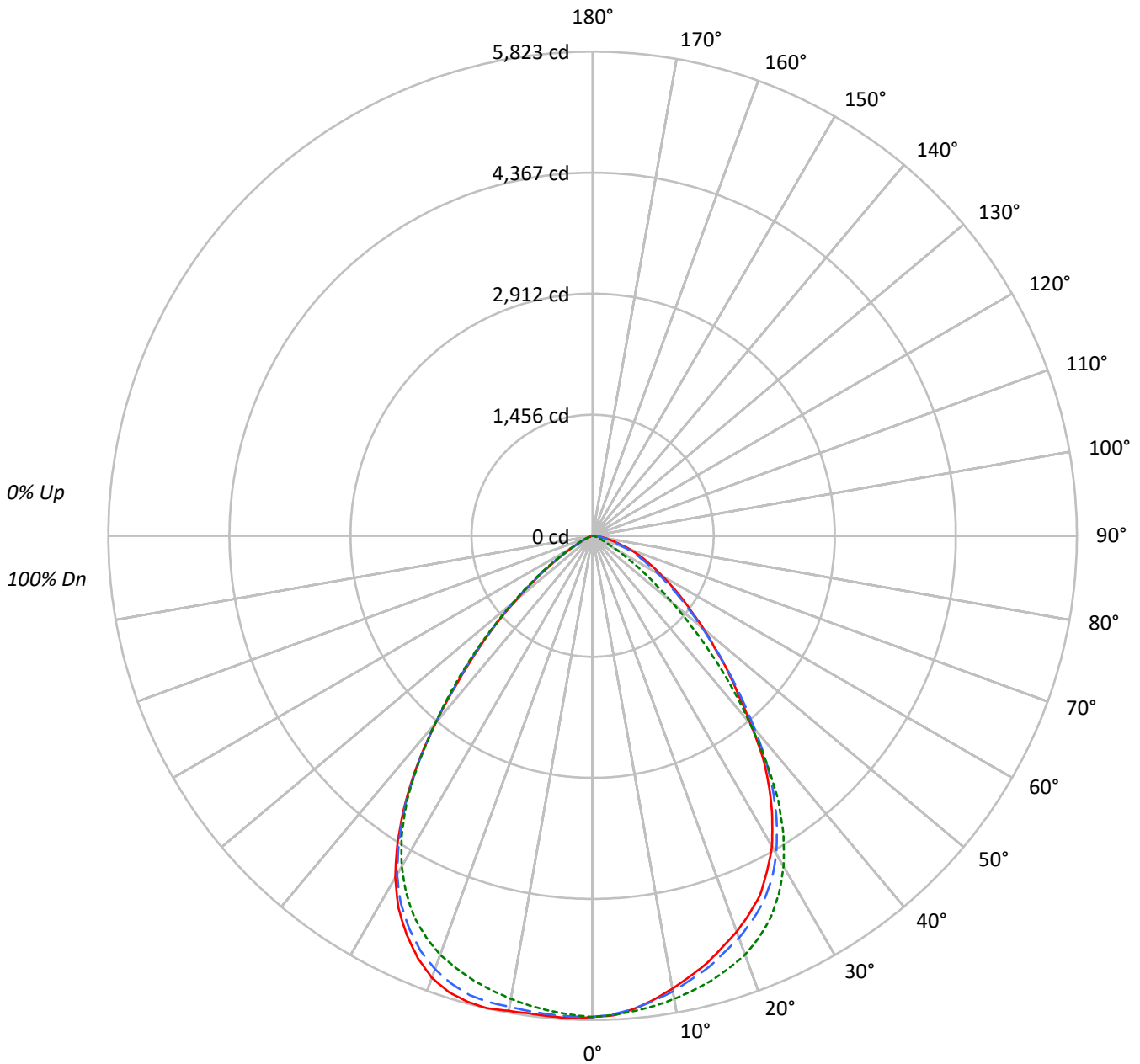
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9710.0 lumens  
Efficiency: N/A  
Efficacy: 84.9 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<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				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				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64				64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

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

	0°	90°	180°
0°	317294	317294	317294
5°	314263	315798	319271
10°	307788	314785	322962
15°	301903	314190	329275
20°	295636	312764	329898
25°	288355	306526	320057
30°	273017	290703	300439
35°	247930	260558	262901
40°	211604	210587	209593
45°	177739	157691	152822
50°	148447	106709	101353
55°	124937	65470	59467
60°	105770	34493	29888
65°	91579	18134	14489
70°	76167	11204	7838
75°	56278	7413	4448
80°	44134	4388	2241
85°	35223	4466	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.5	5.6
10°-20°	1561.8	16.1
20°-30°	2306.3	23.8
30°-40°	2376.8	24.5
40°-50°	1641.6	16.9
50°-60°	809.2	8.3
60°-70°	327.9	3.4
70°-80°	116.9	1.2
80°-90°	24.2	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°	4413.5	45.5
0°-40°	6790.3	69.9
0°-60°	9241.1	95.2
0°-90°	9710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9710.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5788	5788	5788	5788	5788	
5°	5711	5711	5739	5781	5802	539
15°	5320	5375	5536	5718	5802	1498
25°	4767	4858	5068	5215	5291	2179
35°	3705	3796	3893	3914	3928	2296
45°	2293	2307	2034	2006	1971	1772
55°	1307	1258	685	643	622	1181
65°	706	636	140	112	112	701
75°	266	224	35	21	21	298
85°	56	42	7	0	0	68
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°	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9
2.5°	5773.7	5752.9	5766.8	5738.7	5773.7	5738.7	5745.8	5752.9	5745.8	5752.9	5759.7
5°	5710.8	5689.8	5710.8	5675.9	5710.8	5689.8	5689.8	5696.9	5696.9	5703.7	5710.8
7.5°	5627.0	5606.0	5627.0	5592.0	5633.8	5613.1	5613.1	5627.0	5619.9	5627.0	5640.9
10°	5529.2	5501.1	5522.1	5501.1	5543.1	5515.0	5529.2	5529.2	5529.2	5550.0	5564.2
12.5°	5424.3	5396.2	5424.3	5389.4	5431.2	5410.4	5417.2	5438.3	5445.1	5459.3	5466.1
15°	5319.5	5284.5	5298.4	5277.4	5319.5	5298.4	5305.5	5333.4	5333.4	5354.4	5375.4
17.5°	5186.7	5158.6	5186.7	5158.6	5193.5	5179.6	5193.5	5214.6	5214.6	5235.6	5256.4
20°	5067.6	5039.8	5060.8	5039.8	5081.8	5060.8	5067.6	5095.8	5102.6	5123.6	5144.7
22.5°	4921.0	4899.9	4913.9	4893.1	4934.9	4921.0	4928.1	4955.9	4963.0	4976.9	5011.9
25°	4767.2	4725.1	4746.2	4732.2	4774.3	4753.3	4767.2	4795.1	4809.2	4830.0	4858.1
27.5°	4543.5	4522.5	4536.4	4536.4	4571.4	4550.6	4557.4	4585.6	4606.3	4627.3	4662.3
30°	4313.0	4278.0	4291.9	4298.8	4326.9	4313.0	4326.9	4354.8	4361.9	4389.7	4417.6
32.5°	4019.4	4005.2	4033.3	4019.4	4033.3	4033.3	4040.1	4061.2	4075.1	4089.3	4124.2
35°	3704.7	3676.9	3704.7	3690.8	3725.7	3704.7	3725.7	3746.8	3746.8	3774.6	3795.7
37.5°	3362.2	3327.3	3341.2	3341.2	3355.1	3348.3	3348.3	3383.2	3390.1	3411.1	3432.1
40°	2956.9	2942.7	2970.8	2963.7	2970.8	2970.8	2977.7	2998.7	3012.6	3019.7	3026.8
42.5°	2593.4	2600.2	2607.3	2607.3	2607.3	2607.3	2607.3	2635.1	2628.3	2649.3	2656.2
45°	2292.6	2264.8	2278.7	2271.9	2292.6	2271.9	2292.6	2313.7	2299.7	2320.8	2306.6
47.5°	1985.1	1985.1	1985.1	1978.3	1992.2	1985.1	1999.0	2006.1	2006.1	2006.1	1999.0
50°	1740.6	1719.6	1726.4	1726.4	1733.5	1726.4	1740.6	1747.5	1747.5	1733.5	1705.7
52.5°	1502.8	1495.9	1495.9	1509.9	1509.9	1502.8	1502.8	1502.8	1502.8	1482.0	1467.8
55°	1307.2	1293.3	1300.1	1300.1	1300.1	1300.1	1307.2	1300.1	1300.1	1279.1	1258.3
57.5°	1132.4	1118.5	1118.5	1118.5	1125.3	1118.5	1118.5	1118.5	1111.4	1090.3	1062.5
60°	964.7	957.6	964.7	964.7	971.5	964.7	964.7	964.7	950.8	929.7	901.6
62.5°	824.8	824.8	824.8	831.7	831.7	824.8	824.8	817.8	810.9	782.8	754.9
65°	706.0	698.9	706.0	706.0	712.9	712.9	706.0	698.9	692.1	664.0	636.1
67.5°	587.2	580.1	587.2	587.2	594.1	587.2	587.2	587.2	566.2	552.3	524.1
70°	475.2	468.4	468.4	468.4	475.2	461.3	468.4	468.4	454.5	433.5	405.3
72.5°	363.5	363.5	363.5	363.5	363.5	363.5	356.4	356.4	342.5	321.5	307.5
75°	265.7	265.7	272.6	272.6	265.7	265.7	265.7	258.7	251.6	237.6	223.7
77.5°	195.8	195.8	195.8	195.8	188.7	188.7	188.7	181.6	174.8	167.7	153.8
80°	139.8	139.8	139.8	132.7	139.8	132.7	132.7	132.7	118.8	111.7	104.9
82.5°	97.8	90.9	90.9	90.9	90.9	90.9	90.9	83.9	83.9	77.0	69.9
85°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	48.9	42.1	42.1
87.5°	27.9	35.0	35.0	35.0	35.0	35.0	35.0	27.9	27.9	27.9	21.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9
2.5°	5759.7	5759.7	5773.7	5752.9	5787.9	5766.8	5759.7	5794.7	5773.7	5766.8	5780.8
5°	5710.8	5717.9	5724.8	5710.8	5745.8	5724.8	5724.8	5759.7	5745.8	5738.7	5759.7
7.5°	5648.0	5654.9	5668.8	5662.0	5689.8	5675.9	5683.0	5717.9	5703.7	5703.7	5724.8
10°	5571.0	5584.9	5599.1	5599.1	5633.8	5619.9	5619.9	5662.0	5648.0	5654.9	5683.0
12.5°	5480.1	5501.1	5522.1	5529.2	5564.2	5543.1	5550.0	5599.1	5592.0	5599.1	5627.0
15°	5382.3	5410.4	5431.2	5431.2	5473.2	5452.2	5473.2	5522.1	5508.2	5536.0	5571.0
17.5°	5270.6	5298.4	5326.3	5333.4	5375.4	5361.2	5389.4	5438.3	5438.3	5452.2	5494.3
20°	5165.7	5200.6	5214.6	5235.6	5277.4	5270.6	5284.5	5340.5	5340.5	5361.2	5403.3
22.5°	5025.8	5060.8	5088.7	5109.7	5144.7	5144.7	5165.7	5214.6	5214.6	5228.5	5270.6
25°	4872.1	4913.9	4934.9	4955.9	4990.9	4983.8	5004.8	5046.9	5053.7	5067.6	5109.7
27.5°	4676.2	4711.2	4739.3	4753.3	4802.1	4774.3	4795.1	4844.2	4837.1	4851.0	4886.0
30°	4431.8	4466.7	4494.6	4494.6	4536.4	4536.4	4557.4	4578.5	4578.5	4592.4	4620.5
32.5°	4145.0	4187.1	4187.1	4208.1	4236.0	4208.1	4236.0	4263.8	4249.9	4270.9	4291.9
35°	3816.4	3837.5	3844.6	3844.6	3865.6	3858.5	3851.4	3872.4	3858.5	3893.4	3914.5
37.5°	3418.2	3446.1	3432.1	3446.1	3439.0	3418.2	3418.2	3453.2	3425.0	3432.1	3453.2
40°	3033.6	3033.6	3026.8	2991.8	2998.7	2977.7	2970.8	2977.7	2949.8	2942.7	2970.8
42.5°	2635.1	2628.3	2607.3	2558.4	2565.2	2530.3	2502.4	2502.4	2488.5	2481.4	2488.5
45°	2278.7	2257.7	2222.7	2167.0	2152.8	2124.9	2069.0	2055.0	2034.0	2034.0	2041.1
47.5°	1950.1	1922.3	1866.3	1803.5	1768.5	1733.5	1677.6	1656.5	1621.6	1607.6	1621.6
50°	1677.6	1628.7	1558.7	1467.8	1432.8	1391.0	1335.1	1300.1	1265.1	1251.2	1244.1
52.5°	1426.0	1356.1	1286.2	1174.4	1146.3	1104.5	1027.5	992.6	957.6	929.7	929.7
55°	1209.1	1146.3	1048.5	943.7	901.6	859.8	782.8	733.9	698.9	685.0	671.1
57.5°	1013.6	943.7	852.7	741.0	698.9	657.1	580.1	531.2	496.3	475.2	461.3
60°	852.7	776.0	685.0	587.2	538.3	496.3	419.5	370.4	335.4	314.6	300.4
62.5°	698.9	636.1	545.2	454.5	412.4	370.4	307.5	258.7	223.7	209.8	188.7
65°	587.2	524.1	440.3	363.5	328.6	286.5	230.8	188.7	160.9	139.8	125.9
67.5°	475.2	426.4	356.4	286.5	251.6	223.7	174.8	139.8	111.7	97.8	90.9
70°	377.5	328.6	272.6	216.6	195.8	167.7	132.7	97.8	83.9	69.9	62.8
72.5°	279.7	244.7	202.7	160.9	139.8	125.9	90.9	77.0	56.0	48.9	42.1
75°	202.7	174.8	146.7	111.7	97.8	90.9	69.9	48.9	42.1	35.0	27.9
77.5°	139.8	125.9	97.8	77.0	69.9	62.8	48.9	35.0	27.9	21.0	21.0
80°	90.9	77.0	62.8	48.9	48.9	42.1	27.9	21.0	21.0	13.9	13.9
82.5°	56.0	48.9	42.1	35.0	27.9	27.9	21.0	13.9	13.9	7.1	7.1
85°	35.0	27.9	21.0	21.0	13.9	13.9	13.9	7.1	7.1	7.1	7.1
87.5°	13.9	13.9	13.9	7.1	7.1	7.1	7.1	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°	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9
2.5°	5780.8	5780.8	5794.7	5773.7	5787.9	5787.9	5801.8	5773.7	5787.9	5794.7	5808.6
5°	5752.9	5759.7	5773.7	5766.8	5773.7	5773.7	5787.9	5752.9	5780.8	5780.8	5801.8
7.5°	5724.8	5724.8	5738.7	5731.9	5745.8	5752.9	5766.8	5738.7	5766.8	5766.8	5787.9
10°	5689.8	5689.8	5710.8	5703.7	5724.8	5731.9	5752.9	5724.8	5752.9	5759.7	5780.8
12.5°	5640.9	5648.0	5668.8	5668.8	5689.8	5703.7	5724.8	5710.8	5745.8	5752.9	5780.8
15°	5584.9	5599.1	5627.0	5619.9	5640.9	5662.0	5689.8	5668.8	5717.9	5731.9	5759.7
17.5°	5515.0	5529.2	5550.0	5550.0	5571.0	5584.9	5619.9	5606.0	5648.0	5654.9	5689.8
20°	5410.4	5431.2	5459.3	5452.2	5473.2	5487.2	5515.0	5501.1	5543.1	5557.1	5592.0
22.5°	5284.5	5298.4	5319.5	5319.5	5340.5	5354.4	5382.3	5361.2	5403.3	5410.4	5438.3
25°	5116.8	5130.7	5144.7	5151.7	5172.5	5179.6	5193.5	5179.6	5214.6	5221.7	5256.4
27.5°	4899.9	4907.0	4928.1	4928.1	4942.0	4948.8	4969.9	4942.0	4990.9	4990.9	5011.9
30°	4641.3	4634.4	4662.3	4648.4	4662.3	4662.3	4683.3	4669.4	4704.4	4690.4	4711.2
32.5°	4298.8	4313.0	4313.0	4298.8	4326.9	4319.8	4319.8	4305.9	4326.9	4333.7	4347.7
35°	3900.5	3921.3	3921.3	3928.4	3935.5	3914.5	3921.3	3879.5	3914.5	3921.3	3928.4
37.5°	3467.1	3446.1	3460.0	3439.0	3473.9	3432.1	3432.1	3404.3	3432.1	3432.1	3439.0
40°	2970.8	2963.7	2977.7	2963.7	2956.9	2949.8	2935.9	2914.8	2942.7	2928.8	2949.8
42.5°	2502.4	2495.3	2495.3	2481.4	2474.5	2474.5	2460.6	2446.4	2439.6	2439.6	2474.5
45°	2020.1	2034.0	2020.1	2013.2	2027.2	2013.2	2020.1	1992.2	2006.1	1992.2	2006.1
47.5°	1614.7	1621.6	1607.6	1593.7	1614.7	1593.7	1593.7	1572.7	1600.8	1600.8	1586.6
50°	1251.2	1244.1	1230.2	1244.1	1237.3	1237.3	1237.3	1216.2	1230.2	1209.1	1223.3
52.5°	922.6	915.8	915.8	908.7	915.8	908.7	908.7	901.6	901.6	894.8	901.6
55°	671.1	664.0	650.0	650.0	650.0	657.1	650.0	643.2	643.2	636.1	643.2
57.5°	454.5	440.3	440.3	440.3	440.3	433.5	433.5	426.4	433.5	426.4	433.5
60°	293.6	293.6	279.7	279.7	279.7	279.7	279.7	272.6	279.7	279.7	279.7
62.5°	181.6	181.6	174.8	167.7	174.8	167.7	167.7	167.7	174.8	167.7	174.8
65°	118.8	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7
67.5°	83.9	77.0	77.0	77.0	77.0	77.0	77.0	69.9	77.0	77.0	77.0
70°	56.0	56.0	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
72.5°	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
75°	27.9	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
77.5°	21.0	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
80°	13.9	13.9	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
82.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
85°	7.1	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	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
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: P683897

CATALOG NUMBER: LX6C100D010 EX6C1009035 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9	5787.9
2.5°	5787.9	5794.7	5780.8	5787.9	5773.7	5787.9	5794.7	5808.6
5°	5773.7	5780.8	5766.8	5780.8	5766.8	5780.8	5787.9	5801.8
7.5°	5759.7	5773.7	5759.7	5773.7	5759.7	5773.7	5780.8	5794.7
10°	5759.7	5780.8	5766.8	5787.9	5766.8	5780.8	5794.7	5801.8
12.5°	5759.7	5780.8	5773.7	5787.9	5780.8	5794.7	5808.6	5822.6
15°	5745.8	5766.8	5752.9	5773.7	5766.8	5773.7	5801.8	5801.8
17.5°	5668.8	5689.8	5689.8	5703.7	5703.7	5724.8	5738.7	5752.9
20°	5571.0	5592.0	5584.9	5606.0	5606.0	5627.0	5640.9	5654.9
22.5°	5424.3	5452.2	5445.1	5466.1	5459.3	5473.2	5501.1	5494.3
25°	5235.6	5270.6	5263.5	5277.4	5270.6	5270.6	5284.5	5291.3
27.5°	5004.8	5025.8	5018.7	5032.9	5018.7	5032.9	5046.9	5053.7
30°	4704.4	4718.3	4711.2	4718.3	4711.2	4725.1	4732.2	4746.2
32.5°	4340.8	4361.9	4340.8	4354.8	4347.7	4347.7	4375.8	4361.9
35°	3907.4	3914.5	3921.3	3921.3	3907.4	3914.5	3928.4	3928.4
37.5°	3425.0	3460.0	3418.2	3439.0	3432.1	3432.1	3432.1	3453.2
40°	2921.9	2928.8	2914.8	2914.8	2914.8	2907.7	2935.9	2928.8
42.5°	2446.4	2453.5	2446.4	2425.7	2432.5	2432.5	2453.5	2425.7
45°	1985.1	1999.0	1992.2	1992.2	1978.3	1978.3	1985.1	1971.2
47.5°	1572.7	1586.6	1565.8	1572.7	1558.7	1572.7	1565.8	1579.8
50°	1195.2	1209.1	1202.3	1209.1	1209.1	1195.2	1216.2	1188.4
52.5°	894.8	901.6	894.8	887.7	880.8	880.8	894.8	887.7
55°	636.1	629.0	629.0	629.0	636.1	636.1	629.0	622.2
57.5°	426.4	426.4	419.5	419.5	426.4	412.4	419.5	412.4
60°	272.6	272.6	272.6	272.6	265.7	272.6	272.6	272.6
62.5°	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7
65°	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7
67.5°	69.9	77.0	77.0	77.0	69.9	69.9	69.9	69.9
70°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
72.5°	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
75°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
77.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
80°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
82.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	7.1	7.1	7.1	7.1	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)