

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: P683912

Luminaire Tested: **LX6C100D010 EX6C1009040 6LCSWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P683912  
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 EX6C1009040 6LCSWH  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

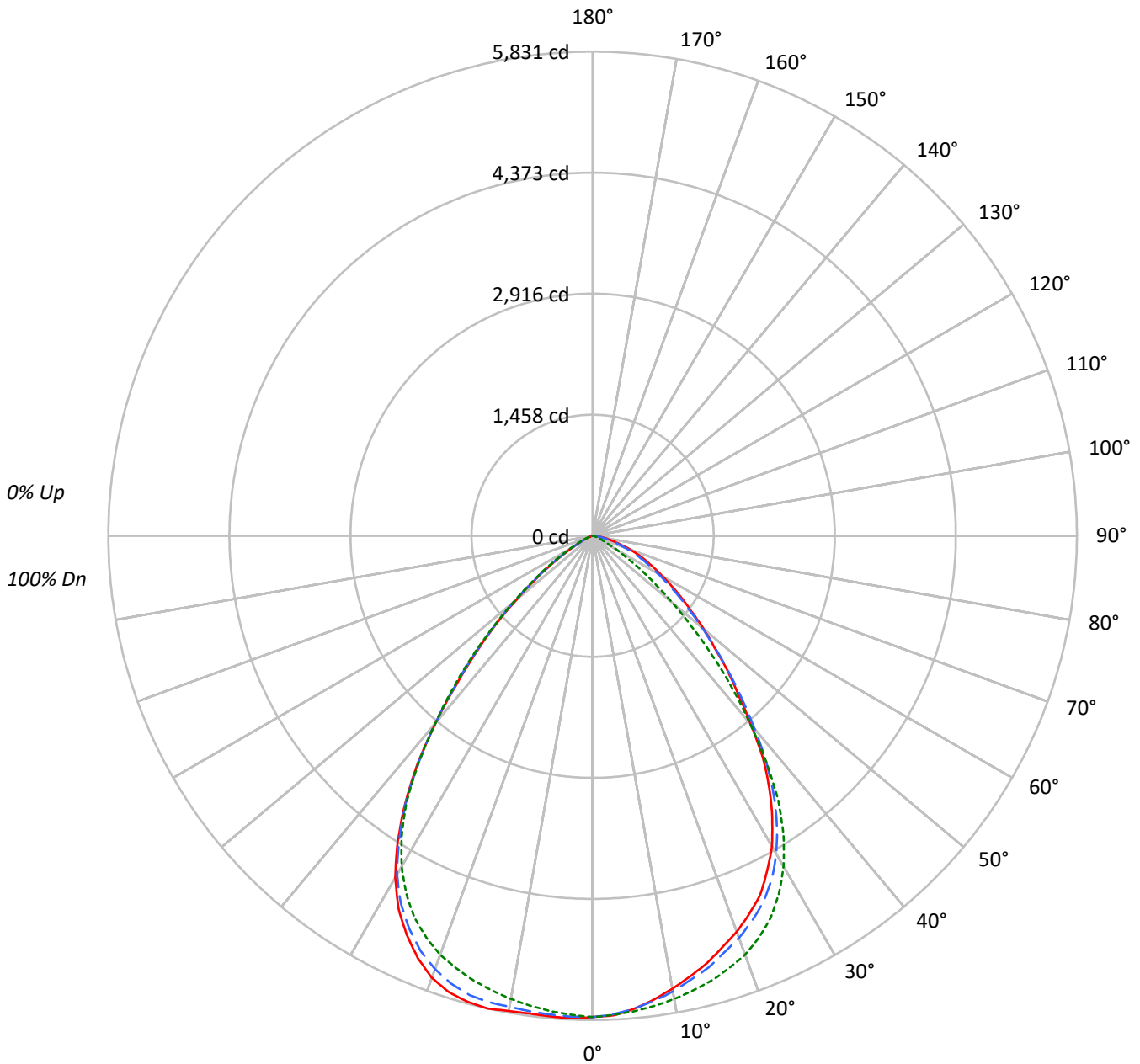
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9724.0 lumens  
Efficiency: N/A  
Efficacy: 85.0 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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CATALOG NUMBER: LX6C100D010 EX6C1009040 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°	317749	317749	317749
5°	314720	316255	319733
10°	308233	315236	323430
15°	302334	314644	329752
20°	296062	313219	330370
25°	288773	306967	320523
30°	273409	291121	300869
35°	248291	260940	263282
40°	211904	210888	209893
45°	178003	157916	153039
50°	148669	106862	101498
55°	125119	65565	59553
60°	105924	34548	29932
65°	91722	18160	14515
70°	76279	11220	7854
75°	56362	7413	4469
80°	44198	4420	2241
85°	35286	4466	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.2	5.6
10°-20°	1564.1	16.1
20°-30°	2309.6	23.8
30°-40°	2380.2	24.5
40°-50°	1644.0	16.9
50°-60°	810.3	8.3
60°-70°	328.3	3.4
70°-80°	117.1	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°	4419.9	45.5
0°-40°	6800.1	69.9
0°-60°	9254.4	95.2
0°-90°	9724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9724.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5796	5796	5796	5796	5796	
5°	5719	5719	5747	5789	5810	540
15°	5327	5383	5544	5726	5810	1500
25°	4774	4865	5075	5222	5299	2183
35°	3710	3801	3899	3920	3934	2299
45°	2296	2310	2037	2009	1974	1775
55°	1309	1260	686	644	623	1183
65°	707	637	140	112	112	702
75°	266	224	35	21	21	299
85°	56	42	7	0	0	69
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°	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2
2.5°	5782.0	5761.2	5775.1	5747.0	5782.0	5747.0	5754.1	5761.2	5754.1	5761.2	5768.0
5°	5719.1	5698.0	5719.1	5684.1	5719.1	5698.0	5698.0	5705.1	5705.1	5712.0	5719.1
7.5°	5635.1	5614.0	5635.1	5600.1	5642.0	5621.2	5621.2	5635.1	5628.0	5635.1	5649.1
10°	5537.2	5509.0	5530.1	5509.0	5551.1	5523.0	5537.2	5537.2	5537.2	5558.0	5572.2
12.5°	5432.2	5404.0	5432.2	5397.1	5439.0	5418.2	5425.0	5446.1	5452.9	5467.2	5474.0
15°	5327.1	5292.1	5306.1	5285.0	5327.1	5306.1	5313.2	5341.1	5341.1	5362.1	5383.2
17.5°	5194.2	5166.0	5194.2	5166.0	5201.0	5187.1	5201.0	5222.1	5222.1	5243.1	5263.9
20°	5074.9	5047.0	5068.1	5047.0	5089.2	5068.1	5074.9	5103.1	5110.0	5131.0	5152.1
22.5°	4928.1	4907.0	4920.9	4900.2	4942.0	4928.1	4935.2	4963.1	4970.2	4984.1	5019.1
25°	4774.1	4731.9	4753.0	4739.1	4781.2	4760.1	4774.1	4802.0	4816.2	4837.0	4865.1
27.5°	4550.0	4529.0	4542.9	4542.9	4577.9	4557.2	4564.0	4592.2	4613.0	4634.0	4669.0
30°	4319.2	4284.2	4298.1	4305.0	4333.1	4319.2	4333.1	4361.0	4368.1	4396.1	4424.0
32.5°	4025.2	4010.9	4039.1	4025.2	4039.1	4039.1	4045.9	4067.0	4081.0	4095.2	4130.2
35°	3710.1	3682.2	3710.1	3696.1	3731.1	3710.1	3731.1	3752.2	3752.2	3780.1	3801.1
37.5°	3367.1	3332.1	3346.0	3346.0	3360.0	3353.1	3353.1	3388.1	3395.0	3416.0	3437.1
40°	2961.1	2946.9	2975.1	2968.0	2975.1	2975.1	2981.9	3003.0	3017.0	3024.1	3031.2
42.5°	2597.1	2603.9	2611.0	2611.0	2611.0	2611.0	2611.0	2638.9	2632.1	2653.2	2660.0
45°	2296.0	2268.0	2282.0	2275.2	2296.0	2275.2	2296.0	2317.0	2303.1	2324.1	2309.9
47.5°	1988.0	1988.0	1988.0	1981.1	1995.1	1988.0	2001.9	2009.0	2009.0	2009.0	2001.9
50°	1743.2	1722.1	1728.9	1728.9	1736.0	1728.9	1743.2	1750.0	1750.0	1736.0	1708.1
52.5°	1504.9	1498.1	1498.1	1512.0	1512.0	1504.9	1504.9	1504.9	1504.9	1484.1	1469.9
55°	1309.1	1295.1	1302.0	1302.0	1302.0	1302.0	1309.1	1302.0	1302.0	1280.9	1260.1
57.5°	1134.0	1120.1	1120.1	1120.1	1126.9	1120.1	1120.1	1120.1	1113.0	1091.9	1064.0
60°	966.1	959.0	966.1	966.1	972.9	966.1	966.1	966.1	952.1	931.1	902.9
62.5°	826.0	826.0	826.0	832.9	832.9	826.0	826.0	818.9	812.1	783.9	756.0
65°	707.1	699.9	707.1	707.1	713.9	713.9	707.1	699.9	693.1	664.9	637.0
67.5°	588.1	581.0	588.1	588.1	594.9	588.1	588.1	588.1	567.0	553.1	524.9
70°	475.9	469.1	469.1	469.1	475.9	462.0	469.1	469.1	455.1	434.1	405.9
72.5°	364.1	364.1	364.1	364.1	364.1	364.1	356.9	356.9	343.0	321.9	308.0
75°	266.1	266.1	273.0	273.0	266.1	266.1	266.1	259.0	251.9	238.0	224.0
77.5°	196.1	196.1	196.1	196.1	189.0	189.0	189.0	181.9	175.1	167.9	154.0
80°	140.0	140.0	140.0	132.9	140.0	132.9	132.9	132.9	119.0	111.9	105.0
82.5°	97.9	91.1	91.1	91.1	91.1	91.1	91.1	84.0	84.0	77.1	70.0
85°	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	49.0	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	21.1
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°	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2
2.5°	5768.0	5768.0	5782.0	5761.2	5796.2	5775.1	5768.0	5803.1	5782.0	5775.1	5789.1
5°	5719.1	5726.2	5733.0	5719.1	5754.1	5733.0	5733.0	5768.0	5754.1	5747.0	5768.0
7.5°	5656.2	5663.0	5677.0	5670.1	5698.0	5684.1	5691.2	5726.2	5712.0	5712.0	5733.0
10°	5579.0	5593.0	5607.2	5607.2	5642.0	5628.0	5628.0	5670.1	5656.2	5663.0	5691.2
12.5°	5488.0	5509.0	5530.1	5537.2	5572.2	5551.1	5558.0	5607.2	5600.1	5607.2	5635.1
15°	5390.0	5418.2	5439.0	5439.0	5481.1	5460.1	5481.1	5530.1	5516.1	5544.0	5579.0
17.5°	5278.2	5306.1	5334.0	5341.1	5383.2	5369.0	5397.1	5446.1	5446.1	5460.1	5502.2
20°	5173.1	5208.1	5222.1	5243.1	5285.0	5278.2	5292.1	5348.2	5348.2	5369.0	5411.1
22.5°	5033.1	5068.1	5096.0	5117.1	5152.1	5152.1	5173.1	5222.1	5222.1	5236.0	5278.2
25°	4879.1	4920.9	4942.0	4963.1	4998.1	4991.0	5012.0	5054.1	5061.0	5074.9	5117.1
27.5°	4683.0	4718.0	4746.2	4760.1	4809.1	4781.2	4802.0	4851.2	4844.1	4858.0	4893.0
30°	4438.2	4473.2	4501.1	4501.1	4542.9	4542.9	4564.0	4585.1	4585.1	4599.0	4627.2
32.5°	4151.0	4193.1	4193.1	4214.2	4242.1	4214.2	4242.1	4270.0	4256.0	4277.1	4298.1
35°	3821.9	3843.0	3850.1	3850.1	3871.2	3864.1	3856.9	3878.0	3864.1	3899.1	3920.1
37.5°	3423.1	3451.0	3437.1	3451.0	3443.9	3423.1	3423.1	3458.1	3430.0	3437.1	3458.1
40°	3038.0	3038.0	3031.2	2996.2	3003.0	2981.9	2975.1	2981.9	2954.0	2946.9	2975.1
42.5°	2638.9	2632.1	2611.0	2562.1	2568.9	2533.9	2506.0	2506.0	2492.1	2485.0	2492.1
45°	2282.0	2260.9	2225.9	2170.1	2155.9	2128.0	2071.9	2058.0	2036.9	2036.9	2044.0
47.5°	1953.0	1925.0	1869.0	1806.1	1771.1	1736.0	1680.0	1658.9	1623.9	1610.0	1623.9
50°	1680.0	1631.0	1561.0	1469.9	1434.9	1393.0	1337.0	1302.0	1267.0	1253.0	1245.9
52.5°	1428.1	1358.0	1288.0	1176.1	1148.0	1106.1	1029.0	994.0	959.0	931.1	931.1
55°	1210.9	1148.0	1050.1	945.0	902.9	861.0	783.9	735.0	699.9	686.0	672.0
57.5°	1015.0	945.0	853.9	742.1	699.9	658.1	581.0	532.0	497.0	475.9	462.0
60°	853.9	777.1	686.0	588.1	539.1	497.0	420.1	370.9	335.9	315.1	300.9
62.5°	699.9	637.0	546.0	455.1	413.0	370.9	308.0	259.0	224.0	210.1	189.0
65°	588.1	524.9	440.9	364.1	329.0	286.9	231.1	189.0	161.1	140.0	126.1
67.5°	475.9	427.0	356.9	286.9	251.9	224.0	175.1	140.0	111.9	97.9	91.1
70°	378.0	329.0	273.0	216.9	196.1	167.9	132.9	97.9	84.0	70.0	62.9
72.5°	280.1	245.1	203.0	161.1	140.0	126.1	91.1	77.1	56.1	49.0	42.1
75°	203.0	175.1	146.9	111.9	97.9	91.1	70.0	49.0	42.1	35.0	27.9
77.5°	140.0	126.1	97.9	77.1	70.0	62.9	49.0	35.0	27.9	21.1	21.1
80°	91.1	77.1	62.9	49.0	49.0	42.1	27.9	21.1	21.1	14.0	14.0
82.5°	56.1	49.0	42.1	35.0	27.9	27.9	21.1	14.0	14.0	7.1	7.1
85°	35.0	27.9	21.1	21.1	14.0	14.0	14.0	7.1	7.1	7.1	7.1
87.5°	14.0	14.0	14.0	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°	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2
2.5°	5789.1	5789.1	5803.1	5782.0	5796.2	5796.2	5810.2	5782.0	5796.2	5803.1	5817.0
5°	5761.2	5768.0	5782.0	5775.1	5782.0	5782.0	5796.2	5761.2	5789.1	5789.1	5810.2
7.5°	5733.0	5733.0	5747.0	5740.1	5754.1	5761.2	5775.1	5747.0	5775.1	5775.1	5796.2
10°	5698.0	5698.0	5719.1	5712.0	5733.0	5740.1	5761.2	5733.0	5761.2	5768.0	5789.1
12.5°	5649.1	5656.2	5677.0	5677.0	5698.0	5712.0	5733.0	5719.1	5754.1	5761.2	5789.1
15°	5593.0	5607.2	5635.1	5628.0	5649.1	5670.1	5698.0	5677.0	5726.2	5740.1	5768.0
17.5°	5523.0	5537.2	5558.0	5558.0	5579.0	5593.0	5628.0	5614.0	5656.2	5663.0	5698.0
20°	5418.2	5439.0	5467.2	5460.1	5481.1	5495.1	5523.0	5509.0	5551.1	5565.1	5600.1
22.5°	5292.1	5306.1	5327.1	5327.1	5348.2	5362.1	5390.0	5369.0	5411.1	5418.2	5446.1
25°	5124.2	5138.1	5152.1	5159.2	5180.0	5187.1	5201.0	5187.1	5222.1	5229.2	5263.9
27.5°	4907.0	4914.1	4935.2	4935.2	4949.1	4956.0	4977.0	4949.1	4998.1	4998.1	5019.1
30°	4648.0	4641.1	4669.0	4655.1	4669.0	4669.0	4690.1	4676.1	4711.1	4697.2	4718.0
32.5°	4305.0	4319.2	4319.2	4305.0	4333.1	4326.0	4326.0	4312.1	4333.1	4340.0	4353.9
35°	3906.2	3927.0	3927.0	3934.1	3941.2	3920.1	3927.0	3885.1	3920.1	3927.0	3934.1
37.5°	3472.1	3451.0	3465.0	3443.9	3478.9	3437.1	3437.1	3409.2	3437.1	3437.1	3443.9
40°	2975.1	2968.0	2981.9	2968.0	2961.1	2954.0	2940.1	2919.0	2946.9	2933.0	2954.0
42.5°	2506.0	2498.9	2498.9	2485.0	2478.1	2478.1	2464.2	2449.9	2443.1	2443.1	2478.1
45°	2023.0	2036.9	2023.0	2016.1	2030.1	2016.1	2023.0	1995.1	2009.0	1995.1	2009.0
47.5°	1617.1	1623.9	1610.0	1596.0	1617.1	1596.0	1596.0	1574.9	1603.1	1603.1	1588.9
50°	1253.0	1245.9	1231.9	1245.9	1239.1	1239.1	1239.1	1218.0	1231.9	1210.9	1225.1
52.5°	924.0	917.1	917.1	910.0	917.1	910.0	910.0	902.9	902.9	896.1	902.9
55°	672.0	664.9	651.0	651.0	651.0	658.1	651.0	644.1	644.1	637.0	644.1
57.5°	455.1	440.9	440.9	440.9	440.9	434.1	434.1	427.0	434.1	427.0	434.1
60°	294.0	294.0	280.1	280.1	280.1	280.1	280.1	273.0	280.1	280.1	280.1
62.5°	181.9	181.9	175.1	167.9	175.1	167.9	167.9	167.9	175.1	167.9	175.1
65°	119.0	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9
67.5°	84.0	77.1	77.1	77.1	77.1	77.1	77.1	70.0	77.1	77.1	77.1
70°	56.1	56.1	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
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	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
77.5°	21.1	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
80°	14.0	14.0	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: P683912

CATALOG NUMBER: LX6C100D010 EX6C1009040 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2
2.5°	5796.2	5803.1	5789.1	5796.2	5782.0	5796.2	5803.1	5817.0
5°	5782.0	5789.1	5775.1	5789.1	5775.1	5789.1	5796.2	5810.2
7.5°	5768.0	5782.0	5768.0	5782.0	5768.0	5782.0	5789.1	5803.1
10°	5768.0	5789.1	5775.1	5796.2	5775.1	5789.1	5803.1	5810.2
12.5°	5768.0	5789.1	5782.0	5796.2	5789.1	5803.1	5817.0	5831.0
15°	5754.1	5775.1	5761.2	5782.0	5775.1	5782.0	5810.2	5810.2
17.5°	5677.0	5698.0	5698.0	5712.0	5712.0	5733.0	5747.0	5761.2
20°	5579.0	5600.1	5593.0	5614.0	5614.0	5635.1	5649.1	5663.0
22.5°	5432.2	5460.1	5452.9	5474.0	5467.2	5481.1	5509.0	5502.2
25°	5243.1	5278.2	5271.1	5285.0	5278.2	5278.2	5292.1	5299.0
27.5°	5012.0	5033.1	5026.0	5040.2	5026.0	5040.2	5054.1	5061.0
30°	4711.1	4725.1	4718.0	4725.1	4718.0	4731.9	4739.1	4753.0
32.5°	4347.1	4368.1	4347.1	4361.0	4353.9	4353.9	4382.1	4368.1
35°	3913.0	3920.1	3927.0	3927.0	3913.0	3920.1	3934.1	3934.1
37.5°	3430.0	3465.0	3423.1	3443.9	3437.1	3437.1	3437.1	3458.1
40°	2926.1	2933.0	2919.0	2919.0	2919.0	2911.9	2940.1	2933.0
42.5°	2449.9	2457.1	2449.9	2429.1	2436.0	2436.0	2457.1	2429.1
45°	1988.0	2001.9	1995.1	1995.1	1981.1	1981.1	1988.0	1974.0
47.5°	1574.9	1588.9	1568.1	1574.9	1561.0	1574.9	1568.1	1582.1
50°	1196.9	1210.9	1204.0	1210.9	1210.9	1196.9	1218.0	1190.1
52.5°	896.1	902.9	896.1	889.0	882.1	882.1	896.1	889.0
55°	637.0	629.9	629.9	629.9	637.0	637.0	629.9	623.1
57.5°	427.0	427.0	420.1	420.1	427.0	413.0	420.1	413.0
60°	273.0	273.0	273.0	273.0	266.1	273.0	273.0	273.0
62.5°	167.9	167.9	167.9	167.9	167.9	167.9	167.9	167.9
65°	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9
67.5°	70.0	77.1	77.1	77.1	70.0	70.0	70.0	70.0
70°	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
72.5°	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
75°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
77.5°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
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)