

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: P685240

Luminaire Tested: **LX6C80D010 EX6809027 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P685240  
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: LX6C80D010 EX6809027 6LCSWLI  
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

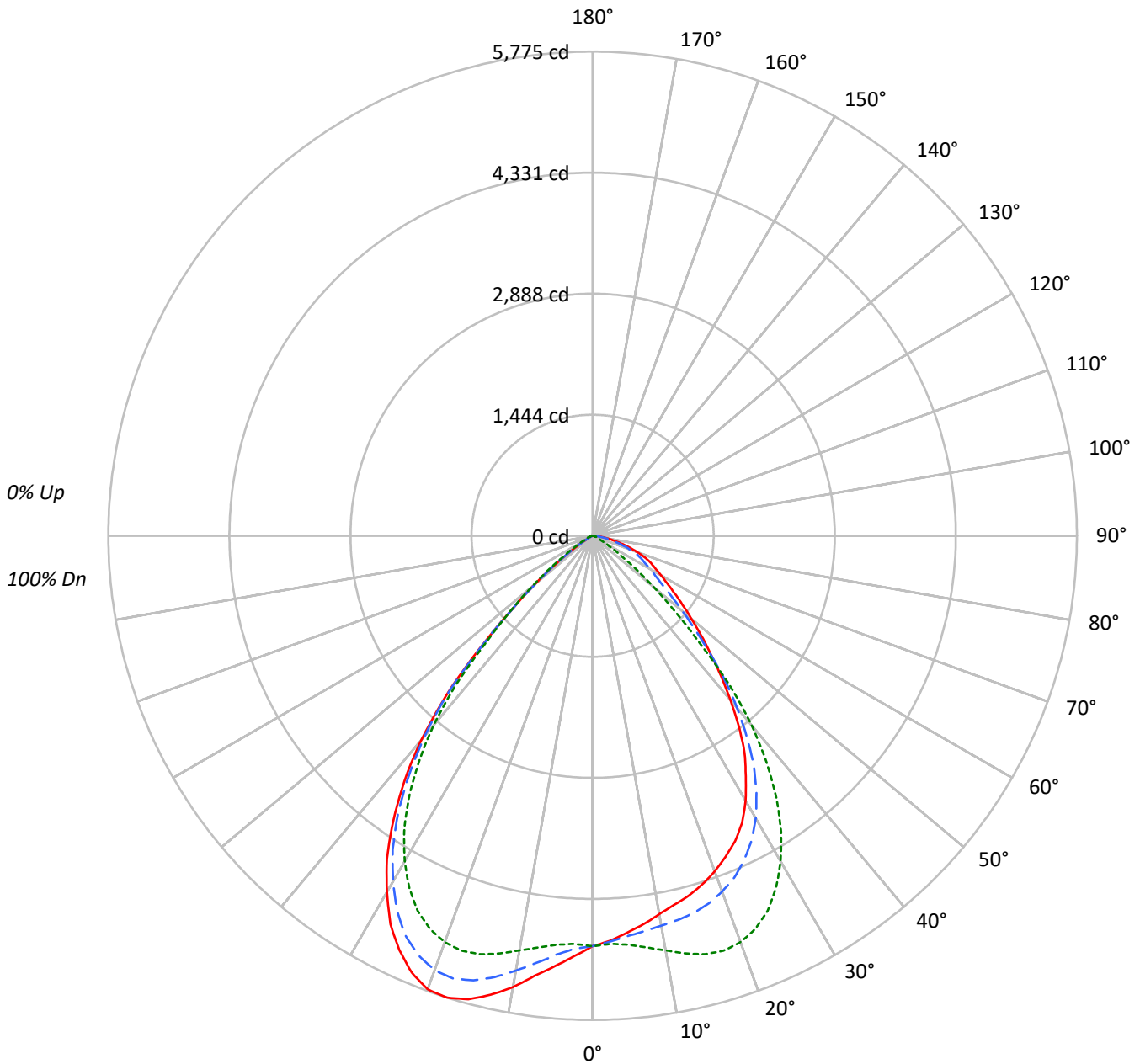
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8948.0 lumens  
Efficiency: N/A  
Efficacy: 100.0 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): 89.5  
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									
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°	268361	268361	268361
5°	261401	269386	283545
10°	255039	279532	304281
15°	252062	293231	324837
20°	248446	300874	335813
25°	243171	298644	329789
30°	231074	283809	310465
35°	211410	255880	277175
40°	182864	211325	227397
45°	154210	138604	148752
50°	130921	80228	75443
55°	113611	38469	29065
60°	102623	17959	7170
65°	99544	10312	2413
70°	89262	8255	2260
75°	73349	5952	996
80°	54647	2936	0
85°	47111	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.8	5.3
10°-20°	1441.0	16.1
20°-30°	2201.8	24.6
30°-40°	2302.9	25.7
40°-50°	1493.9	16.7
50°-60°	593.1	6.6
60°-70°	281.4	3.1
70°-80°	133.8	1.5
80°-90°	27.3	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°	4115.6	46.0
0°-40°	6418.5	71.7
0°-60°	8505.5	95.1
0°-90°	8948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4895	4895	4895	4895	4895	
5°	4750	4792	4895	5017	5153	449
15°	4441	4657	5167	5490	5724	1252
25°	4020	4273	4937	5270	5452	1841
35°	3159	3351	3824	4048	4142	1954
45°	1989	1970	1788	1895	1919	1548
55°	1189	1011	402	314	304	1077
65°	767	636	80	19	19	750
75°	346	281	28	9	5	374
85°	75	47	0	0	0	87
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°	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3
2.5°	4834.4	4843.7	4792.4	4778.3	4815.8	4829.7	4834.4	4820.3	4825.1	4843.7	4843.7
5°	4750.2	4759.5	4712.7	4698.6	4736.1	4745.6	4759.5	4754.9	4769.0	4796.9	4792.4
7.5°	4670.7	4684.7	4633.2	4614.5	4661.3	4684.7	4694.0	4694.0	4712.7	4750.2	4754.9
10°	4581.6	4600.5	4553.7	4544.2	4595.7	4619.1	4623.9	4633.2	4661.3	4712.7	4722.0
12.5°	4506.9	4525.5	4492.8	4478.7	4534.9	4558.3	4567.6	4586.4	4619.1	4684.7	4694.0
15°	4441.3	4455.4	4417.9	4408.6	4464.7	4492.8	4497.4	4525.5	4567.6	4642.5	4656.6
17.5°	4357.0	4366.3	4338.4	4329.1	4385.2	4413.1	4417.9	4450.6	4502.1	4577.1	4600.5
20°	4258.7	4268.2	4240.1	4230.7	4286.8	4319.6	4324.3	4352.5	4413.1	4492.8	4516.2
22.5°	4141.7	4160.5	4127.8	4118.3	4174.6	4202.6	4216.7	4240.1	4300.9	4380.4	4413.1
25°	4020.2	4020.2	3996.8	3992.0	4043.6	4076.3	4071.5	4104.3	4165.1	4244.8	4272.8
27.5°	3861.0	3856.2	3832.8	3828.3	3884.4	3912.5	3903.0	3935.9	3992.0	4071.5	4099.7
30°	3650.4	3659.8	3627.0	3617.5	3664.5	3711.3	3706.5	3739.3	3795.4	3870.3	3889.1
32.5°	3397.7	3407.0	3402.4	3388.3	3430.4	3453.8	3467.9	3491.2	3538.0	3617.5	3636.4
35°	3159.0	3144.9	3126.3	3126.3	3168.3	3205.8	3191.7	3219.8	3266.6	3346.1	3350.9
37.5°	2864.2	2859.4	2850.1	2840.8	2887.6	2896.9	2901.6	2920.3	2962.5	3027.9	3018.6
40°	2555.3	2559.9	2555.3	2536.5	2564.6	2602.1	2597.3	2606.8	2644.1	2690.9	2677.0
42.5°	2265.1	2265.1	2265.1	2246.4	2279.1	2297.9	2307.3	2302.5	2311.8	2354.1	2335.2
45°	1989.1	1993.6	1989.1	1984.3	1989.1	1998.4	1989.1	1984.3	1984.3	1998.4	1970.2
47.5°	1750.4	1750.4	1736.3	1722.2	1736.3	1740.9	1727.0	1712.9	1708.2	1703.6	1656.8
50°	1535.1	1530.3	1525.8	1502.4	1516.3	1521.0	1502.4	1492.9	1474.2	1450.8	1394.7
52.5°	1347.9	1343.2	1338.4	1315.0	1324.5	1329.1	1310.4	1291.6	1268.2	1249.6	1179.4
55°	1188.7	1184.0	1184.0	1170.1	1160.6	1170.1	1151.3	1137.2	1104.5	1081.1	1010.9
57.5°	1052.9	1052.9	1043.6	1029.5	1034.3	1034.3	1015.6	996.8	968.7	940.7	884.6
60°	936.0	936.0	936.0	921.9	921.9	921.9	912.6	893.9	870.5	842.4	786.3
62.5°	842.4	842.4	837.6	823.7	828.3	828.3	819.0	800.3	776.9	758.1	702.0
65°	767.4	767.4	767.4	753.6	753.6	758.1	748.8	730.2	711.3	687.9	636.4
67.5°	673.9	669.3	669.3	659.8	664.5	669.3	659.8	645.9	622.5	608.4	561.6
70°	556.9	561.6	566.2	552.3	556.9	556.9	552.3	538.3	524.2	510.1	468.1
72.5°	454.0	454.0	449.2	444.7	444.7	449.2	439.9	425.9	416.5	407.2	374.3
75°	346.3	341.6	346.3	337.0	337.0	337.0	327.5	323.0	318.2	304.1	280.7
77.5°	252.8	248.0	248.0	238.7	243.4	243.4	238.7	229.4	219.9	215.3	196.5
80°	173.1	173.1	173.1	168.5	168.5	163.8	163.8	159.2	149.7	145.1	135.8
82.5°	117.0	117.0	117.0	112.4	112.4	112.4	107.7	102.9	98.3	93.6	84.3
85°	74.9	74.9	74.9	70.2	70.2	70.2	65.4	65.4	60.9	56.1	46.8
87.5°	42.0	42.0	42.0	37.5	37.5	37.5	37.5	37.5	32.7	28.1	23.4
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°	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3
2.5°	4876.5	4811.0	4853.1	4853.1	4839.2	4876.5	4900.0	4918.7	4913.9	4871.9	4867.1
5°	4839.2	4782.9	4829.7	4834.4	4820.3	4871.9	4904.6	4928.0	4932.7	4895.3	4900.0
7.5°	4811.0	4764.2	4825.1	4843.7	4839.2	4886.0	4923.4	4960.7	4979.5	4951.4	4956.1
10°	4796.9	4759.5	4825.1	4853.1	4857.8	4909.3	4965.5	5017.0	5040.4	5021.6	5035.6
12.5°	4778.3	4754.9	4829.7	4871.9	4890.5	4942.1	5012.2	5073.1	5110.6	5101.3	5129.2
15°	4759.5	4740.8	4829.7	4890.5	4913.9	4960.7	5040.4	5129.2	5171.4	5166.7	5204.2
17.5°	4712.7	4708.1	4801.7	4867.1	4900.0	4956.1	5030.9	5138.5	5180.8	5190.1	5236.9
20°	4637.9	4637.9	4740.8	4811.0	4848.5	4900.0	4993.6	5096.5	5148.0	5157.4	5208.9
22.5°	4534.9	4544.2	4642.5	4712.7	4769.0	4806.3	4904.6	5012.2	5059.0	5073.1	5129.2
25°	4399.2	4408.6	4502.1	4572.3	4633.2	4675.2	4769.0	4867.1	4923.4	4937.3	4979.5
27.5°	4221.4	4240.1	4329.1	4399.2	4450.6	4478.7	4577.1	4680.0	4722.0	4736.1	4778.3
30°	4015.4	4020.2	4109.0	4169.9	4221.4	4244.8	4329.1	4436.7	4469.4	4483.5	4544.2
32.5°	3762.7	3758.1	3842.3	3898.5	3940.5	3968.6	4057.5	4127.8	4160.5	4183.9	4216.7
35°	3458.5	3453.8	3514.6	3580.3	3613.0	3622.3	3711.3	3786.1	3804.9	3823.5	3865.7
37.5°	3116.9	3116.9	3168.3	3201.2	3238.5	3252.6	3294.8	3379.0	3411.7	3407.0	3439.7
40°	2756.5	2737.9	2775.2	2808.1	2817.4	2822.0	2864.2	2929.6	2953.0	2953.0	2976.4
42.5°	2377.5	2349.3	2354.1	2372.7	2382.0	2349.3	2377.5	2419.5	2405.4	2424.2	2429.0
45°	1975.0	1932.8	1914.1	1871.9	1881.4	1848.5	1829.9	1839.2	1834.6	1787.8	1797.2
47.5°	1647.3	1572.5	1539.6	1479.0	1464.9	1427.4	1404.0	1361.8	1324.5	1324.5	1301.0
50°	1371.3	1296.4	1230.8	1160.6	1137.2	1104.5	1052.9	996.8	968.7	940.7	917.3
52.5°	1151.3	1071.8	992.1	917.3	884.6	842.4	772.2	716.1	664.5	636.4	608.4
55°	973.4	884.6	800.3	720.7	678.6	636.4	566.2	500.8	439.9	402.5	379.1
57.5°	837.6	753.6	664.5	580.3	542.8	496.0	421.3	350.9	294.8	252.8	229.4
60°	739.5	655.2	575.7	486.7	449.2	402.5	323.0	257.3	201.2	163.8	135.8
62.5°	655.2	580.3	496.0	416.5	379.1	332.3	257.3	191.9	140.4	102.9	79.5
65°	594.4	519.4	449.2	369.7	337.0	290.2	219.9	159.2	112.4	79.5	56.1
67.5°	524.2	458.6	388.4	323.0	290.2	252.8	187.2	135.8	93.6	65.4	46.8
70°	439.9	388.4	327.5	266.8	243.4	210.6	154.4	112.4	74.9	51.5	37.5
72.5°	350.9	308.9	262.1	215.3	196.5	163.8	126.3	89.0	56.1	37.5	28.1
75°	266.8	233.9	196.5	163.8	145.1	126.3	93.6	65.4	42.0	28.1	18.6
77.5°	182.6	168.5	140.4	112.4	102.9	89.0	60.9	42.0	28.1	18.6	9.3
80°	126.3	112.4	93.6	74.9	65.4	56.1	37.5	28.1	14.1	9.3	4.7
82.5°	79.5	65.4	56.1	46.8	42.0	32.7	23.4	14.1	9.3	4.7	4.7
85°	42.0	37.5	32.7	23.4	23.4	18.6	14.1	9.3	4.7	0.0	0.0
87.5°	23.4	18.6	14.1	9.3	9.3	4.7	4.7	4.7	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°	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3
2.5°	4923.4	4923.4	4918.7	4974.8	4909.3	4974.8	4942.1	4974.8	4928.0	4923.4	4928.0
5°	4960.7	4974.8	4979.5	5030.9	4970.2	5049.7	5021.6	5049.7	5017.0	5026.3	5040.4
7.5°	5035.6	5059.0	5054.5	5119.9	5059.0	5148.0	5129.2	5171.4	5138.5	5148.0	5166.7
10°	5119.9	5148.0	5152.6	5218.2	5161.9	5269.6	5246.2	5293.0	5265.0	5279.1	5302.5
12.5°	5218.2	5250.9	5255.7	5330.5	5269.6	5382.0	5367.9	5414.7	5391.3	5405.4	5433.5
15°	5293.0	5339.8	5349.3	5424.0	5358.6	5475.6	5466.2	5527.1	5489.6	5513.0	5536.4
17.5°	5330.5	5372.7	5391.3	5461.5	5405.4	5522.4	5513.0	5564.6	5536.4	5559.8	5588.0
20°	5307.1	5358.6	5372.7	5442.9	5386.7	5503.7	5489.6	5541.2	5513.0	5531.7	5559.8
22.5°	5222.8	5274.3	5293.0	5358.6	5307.1	5414.7	5410.1	5456.9	5419.5	5442.9	5466.2
25°	5073.1	5129.2	5138.5	5199.4	5143.3	5255.7	5246.2	5297.7	5269.6	5283.7	5316.4
27.5°	4857.8	4923.4	4937.3	4988.9	4946.8	5040.4	5040.4	5082.4	5049.7	5049.7	5082.4
30°	4600.5	4665.9	4675.2	4717.4	4680.0	4764.2	4769.0	4811.0	4759.5	4787.6	4792.4
32.5°	4286.8	4329.1	4357.0	4394.5	4338.4	4446.0	4432.0	4464.7	4436.7	4436.7	4460.1
35°	3907.8	3959.3	3973.4	4020.2	3973.4	4057.5	4057.5	4076.3	4048.1	4048.1	4085.6
37.5°	3496.0	3533.5	3538.0	3584.8	3547.4	3617.5	3613.0	3627.0	3598.9	3617.5	3617.5
40°	3013.9	3042.0	3051.3	3074.7	3070.1	3121.5	3116.9	3126.3	3112.2	3116.9	3126.3
42.5°	2452.4	2489.7	2508.5	2527.1	2499.2	2569.4	2555.3	2569.4	2564.6	2569.4	2583.4
45°	1806.5	1834.6	1848.5	1853.3	1844.0	1886.0	1918.7	1890.7	1895.3	1886.0	1904.8
47.5°	1305.7	1310.4	1301.0	1329.1	1305.7	1324.5	1333.8	1338.4	1310.4	1305.7	1324.5
50°	893.9	917.3	884.6	898.5	893.9	912.6	903.2	908.0	879.8	893.9	884.6
52.5°	594.4	589.6	580.3	585.0	575.7	575.7	575.7	585.0	566.2	556.9	547.6
55°	360.4	350.9	332.3	327.5	327.5	332.3	323.0	313.6	313.6	308.9	308.9
57.5°	210.6	196.5	187.2	182.6	173.1	168.5	163.8	163.8	154.4	154.4	154.4
60°	117.0	102.9	93.6	84.3	84.3	79.5	74.9	70.2	70.2	70.2	65.4
62.5°	60.9	51.5	42.0	37.5	37.5	32.7	28.1	28.1	28.1	28.1	23.4
65°	42.0	32.7	28.1	23.4	23.4	18.6	18.6	18.6	18.6	18.6	18.6
67.5°	32.7	28.1	23.4	18.6	18.6	18.6	14.1	14.1	14.1	14.1	14.1
70°	28.1	18.6	18.6	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
72.5°	18.6	18.6	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
75°	14.1	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	0.0	0.0	0.0	0.0	0.0
80°	4.7	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: P685240

CATALOG NUMBER: LX6C80D010 EX6809027 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3	4895.3
2.5°	4970.2	4965.5	4970.2	4979.5	4960.7	5017.0	4988.9	5017.0
5°	5077.9	5082.4	5087.2	5101.3	5077.9	5148.0	5110.6	5152.6
7.5°	5218.2	5222.8	5227.6	5241.6	5227.6	5297.7	5255.7	5293.0
10°	5363.3	5372.7	5372.7	5396.1	5382.0	5447.4	5419.5	5466.2
12.5°	5499.0	5508.3	5517.8	5531.7	5522.4	5592.5	5569.1	5606.6
15°	5606.6	5625.3	5630.0	5648.7	5639.3	5714.3	5686.1	5723.6
17.5°	5658.2	5676.8	5676.8	5700.2	5690.9	5770.4	5732.9	5775.1
20°	5630.0	5644.1	5648.7	5672.2	5662.7	5742.4	5704.9	5756.3
22.5°	5541.2	5545.8	5550.5	5573.9	5569.1	5639.3	5606.6	5639.3
25°	5377.2	5391.3	5386.7	5405.4	5405.4	5461.5	5424.0	5452.2
27.5°	5143.3	5157.4	5157.4	5180.8	5161.9	5218.2	5180.8	5222.8
30°	4857.8	4871.9	4862.6	4881.2	4862.6	4918.7	4890.5	4904.6
32.5°	4516.2	4516.2	4520.8	4525.5	4516.2	4567.6	4539.6	4567.6
35°	4109.0	4118.3	4123.1	4127.8	4118.3	4155.8	4123.1	4141.7
37.5°	3650.4	3673.8	3669.1	3673.8	3659.8	3706.5	3678.4	3687.9
40°	3159.0	3159.0	3154.2	3163.7	3149.7	3187.1	3168.3	3177.6
42.5°	2588.0	2602.1	2583.4	2606.8	2569.4	2620.7	2602.1	2588.0
45°	1942.3	1923.5	1918.7	1923.5	1909.4	1914.1	1928.2	1918.7
47.5°	1324.5	1324.5	1315.0	1301.0	1319.8	1324.5	1305.7	1305.7
50°	889.2	889.2	879.8	875.1	884.6	879.8	870.5	884.6
52.5°	566.2	547.6	547.6	556.9	547.6	538.3	552.3	542.8
55°	308.9	299.6	299.6	308.9	299.6	299.6	294.8	304.1
57.5°	149.7	154.4	149.7	149.7	149.7	149.7	145.1	149.7
60°	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
62.5°	28.1	28.1	23.4	23.4	23.4	23.4	23.4	23.4
65°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
67.5°	14.1	14.1	14.1	14.1	14.1	18.6	14.1	14.1
70°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
72.5°	14.1	14.1	18.6	18.6	18.6	18.6	18.6	18.6
75°	9.3	9.3	9.3	4.7	4.7	4.7	4.7	4.7
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)