

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: P685265

Luminaire Tested: **LX6C90D010 EX6909027 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P685265  
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: LX6C90D010 EX6909027 6LCSWLI  
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

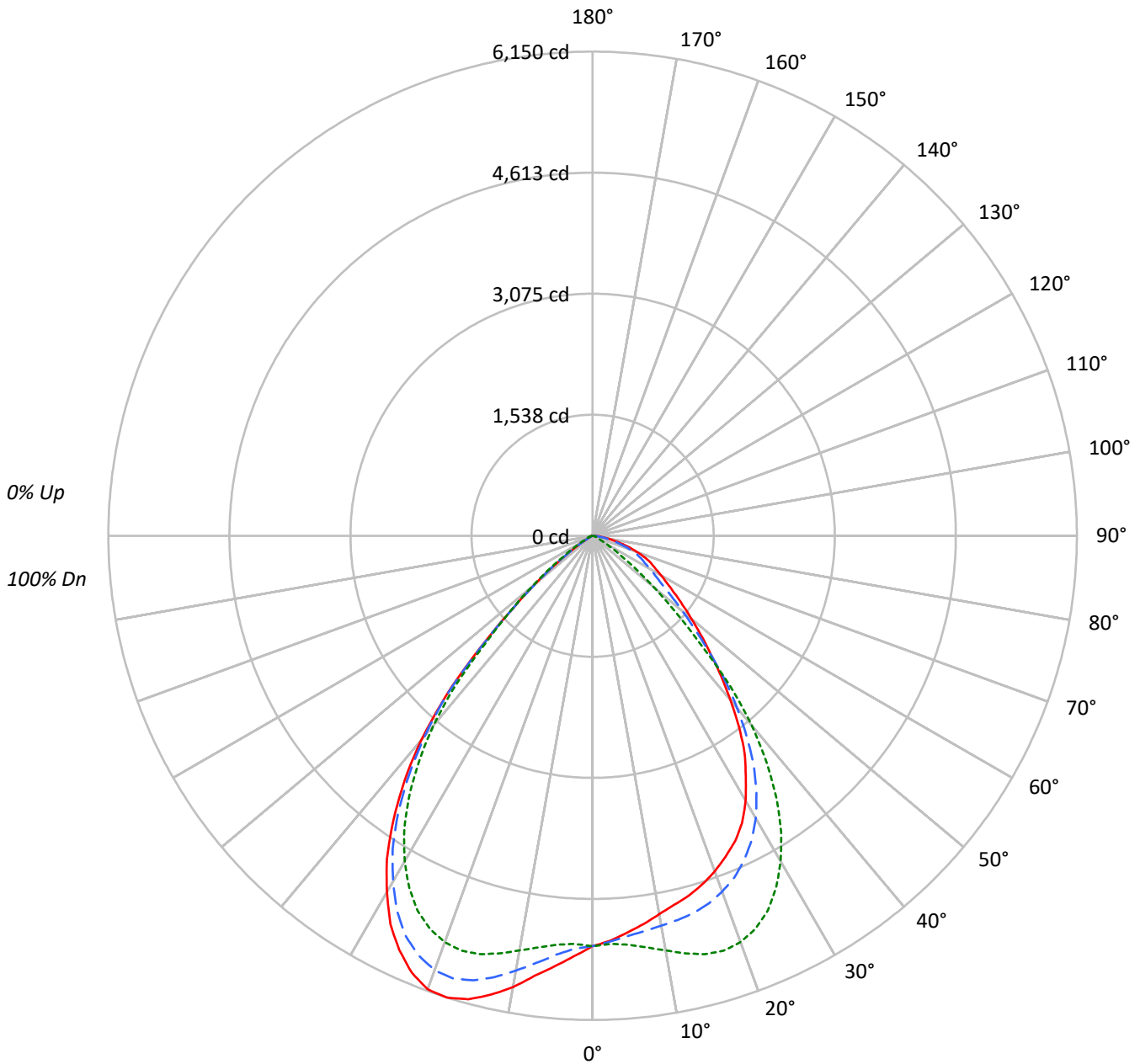
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9529.0 lumens  
Efficiency: N/A  
Efficacy: 98.1 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): 97.1  
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°	285783	285783	285783
5°	278373	286875	301958
10°	271599	297679	324042
15°	268429	312272	345927
20°	264576	320406	357620
25°	258959	318037	351202
30°	246082	302236	330627
35°	225136	272497	295171
40°	194736	225043	242161
45°	164219	147604	158412
50°	139415	85439	80339
55°	120990	40964	30957
60°	109279	19121	7642
65°	106017	10987	2581
70°	95064	8800	2404
75°	78115	6354	1080
80°	58183	3125	0
85°	50193	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.5	5.3
10°-20°	1534.6	16.1
20°-30°	2344.7	24.6
30°-40°	2452.4	25.7
40°-50°	1590.9	16.7
50°-60°	631.7	6.6
60°-70°	299.6	3.1
70°-80°	142.5	1.5
80°-90°	29.1	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°	4382.9	46.0
0°-40°	6835.3	71.7
0°-60°	9057.8	95.1
0°-90°	9529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9529.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5213	5213	5213	5213	5213	
5°	5059	5104	5213	5343	5487	478
15°	4730	4959	5502	5846	6095	1333
25°	4281	4550	5258	5612	5806	1960
35°	3364	3568	4072	4311	4411	2080
45°	2118	2098	1904	2018	2043	1648
55°	1266	1076	429	334	324	1147
65°	817	678	85	20	20	798
75°	369	299	30	10	5	398
85°	80	50	0	0	0	93
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°	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1
2.5°	5148.3	5158.2	5103.5	5088.6	5128.5	5143.3	5148.3	5133.3	5138.4	5158.2	5158.2
5°	5058.6	5068.5	5018.7	5003.7	5043.6	5053.7	5068.5	5063.6	5078.6	5108.4	5103.5
7.5°	4973.9	4988.9	4934.0	4914.2	4964.0	4988.9	4998.8	4998.8	5018.7	5058.6	5063.6
10°	4879.1	4899.2	4849.4	4839.2	4894.1	4919.0	4924.1	4934.0	4964.0	5018.7	5028.6
12.5°	4799.5	4819.4	4784.5	4769.6	4829.3	4854.2	4864.2	4884.2	4919.0	4988.9	4998.8
15°	4729.7	4744.6	4704.7	4694.8	4754.6	4784.5	4789.4	4819.4	4864.2	4944.0	4958.9
17.5°	4639.9	4649.9	4620.1	4610.1	4669.9	4699.7	4704.7	4739.6	4794.5	4874.3	4899.2
20°	4535.2	4545.3	4515.4	4505.4	4565.2	4600.0	4605.1	4635.1	4699.7	4784.5	4809.5
22.5°	4410.6	4430.7	4395.9	4385.7	4445.7	4475.5	4490.4	4515.4	4580.2	4664.8	4699.7
25°	4281.2	4281.2	4256.3	4251.2	4306.1	4341.0	4335.9	4370.7	4435.6	4520.4	4550.2
27.5°	4111.7	4106.6	4081.7	4076.8	4136.6	4166.6	4156.5	4191.5	4251.2	4335.9	4365.9
30°	3887.5	3897.4	3862.5	3852.4	3902.4	3952.3	3947.2	3982.1	4041.8	4121.6	4141.7
32.5°	3618.3	3628.2	3623.3	3608.4	3653.1	3678.0	3693.0	3717.9	3767.8	3852.4	3872.5
35°	3364.1	3349.1	3329.2	3329.2	3374.0	3413.9	3398.9	3428.9	3478.7	3563.4	3568.5
37.5°	3050.1	3045.1	3035.2	3025.2	3075.1	3085.0	3090.0	3109.9	3154.9	3224.5	3214.6
40°	2721.2	2726.1	2721.2	2701.2	2731.1	2771.0	2766.0	2776.1	2815.8	2865.6	2850.8
42.5°	2412.1	2412.1	2412.1	2392.3	2427.1	2447.2	2457.1	2452.0	2462.0	2506.9	2486.9
45°	2118.2	2123.1	2118.2	2113.2	2118.2	2128.1	2118.2	2113.2	2113.2	2128.1	2098.2
47.5°	1864.0	1864.0	1849.0	1834.1	1849.0	1853.9	1839.1	1824.1	1819.1	1814.2	1764.4
50°	1634.7	1629.7	1624.8	1599.9	1614.7	1619.8	1599.9	1589.8	1569.9	1545.0	1485.3
52.5°	1435.4	1430.4	1425.3	1400.4	1410.5	1415.4	1395.5	1375.5	1350.6	1330.7	1256.0
55°	1265.9	1260.9	1260.9	1246.1	1235.9	1246.1	1226.0	1211.0	1176.2	1151.3	1076.5
57.5°	1121.3	1121.3	1111.4	1096.4	1101.4	1101.4	1081.6	1061.5	1031.6	1001.8	942.0
60°	996.7	996.7	996.7	981.7	981.7	981.7	971.8	952.0	927.0	897.1	837.3
62.5°	897.1	897.1	892.0	877.2	882.1	882.1	872.2	852.3	827.4	807.4	747.6
65°	817.3	817.3	817.3	802.5	802.5	807.4	797.4	777.6	757.5	732.6	677.7
67.5°	717.6	712.8	712.8	702.6	707.7	712.8	702.6	687.8	662.9	647.9	598.1
70°	593.1	598.1	603.0	588.2	593.1	593.1	588.2	573.2	558.2	543.2	498.5
72.5°	483.5	483.5	478.4	473.5	473.5	478.4	468.5	453.5	443.6	433.6	398.6
75°	368.8	363.8	368.8	358.9	358.9	358.9	348.8	343.9	338.9	323.9	299.0
77.5°	269.2	264.1	264.1	254.2	259.3	259.3	254.2	244.3	234.2	229.3	209.2
80°	184.3	184.3	184.3	179.5	179.5	174.4	174.4	169.5	159.4	154.5	144.6
82.5°	124.6	124.6	124.6	119.7	119.7	119.7	114.6	109.6	104.7	99.7	89.7
85°	79.8	79.8	79.8	74.7	74.7	74.7	69.7	69.7	64.8	59.8	49.8
87.5°	44.8	44.8	44.8	39.9	39.9	39.9	39.9	39.9	34.8	30.0	24.9
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°	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1
2.5°	5193.1	5123.4	5168.2	5168.2	5153.4	5193.1	5218.2	5238.0	5233.0	5188.2	5183.2
5°	5153.4	5093.4	5143.3	5148.3	5133.3	5188.2	5223.1	5248.0	5253.0	5213.1	5218.2
7.5°	5123.4	5073.6	5138.4	5158.2	5153.4	5203.2	5243.1	5282.8	5302.9	5272.9	5277.9
10°	5108.4	5068.5	5138.4	5168.2	5173.2	5228.1	5287.9	5342.8	5367.7	5347.6	5362.6
12.5°	5088.6	5063.6	5143.3	5188.2	5208.1	5263.0	5337.7	5402.5	5442.4	5432.5	5462.3
15°	5068.5	5048.7	5143.3	5208.1	5233.0	5282.8	5367.7	5462.3	5507.2	5502.2	5542.1
17.5°	5018.7	5013.8	5113.5	5183.2	5218.2	5277.9	5357.6	5472.2	5517.2	5527.1	5576.9
20°	4939.1	4939.1	5048.7	5123.4	5163.3	5218.2	5317.8	5427.4	5482.3	5492.2	5547.1
22.5°	4829.3	4839.2	4944.0	5018.7	5078.6	5118.3	5223.1	5337.7	5387.5	5402.5	5462.3
25°	4684.9	4694.8	4794.5	4869.2	4934.0	4978.8	5078.6	5183.2	5243.1	5257.9	5302.9
27.5°	4495.5	4515.4	4610.1	4684.9	4739.6	4769.6	4874.3	4983.8	5028.6	5043.6	5088.6
30°	4276.2	4281.2	4375.8	4440.6	4495.5	4520.4	4610.1	4724.8	4759.6	4774.6	4839.2
32.5°	4007.0	4002.1	4091.8	4151.6	4196.4	4226.3	4320.9	4395.9	4430.7	4455.6	4490.4
35°	3683.1	3678.0	3742.9	3812.7	3847.6	3857.5	3952.3	4031.9	4051.9	4071.8	4116.7
37.5°	3319.3	3319.3	3374.0	3409.0	3448.8	3463.7	3508.7	3598.4	3633.3	3628.2	3663.1
40°	2935.5	2915.6	2955.4	2990.4	3000.3	3005.2	3050.1	3119.8	3144.7	3144.7	3169.7
42.5°	2531.8	2501.9	2506.9	2526.8	2536.7	2501.9	2531.8	2576.6	2561.6	2581.7	2586.7
45°	2103.2	2058.3	2038.4	1993.5	2003.6	1968.6	1948.7	1958.6	1953.8	1903.9	1913.9
47.5°	1754.3	1674.6	1639.6	1575.0	1560.0	1520.1	1495.2	1450.2	1410.5	1410.5	1385.4
50°	1460.4	1380.6	1310.7	1235.9	1211.0	1176.2	1121.3	1061.5	1031.6	1001.8	976.9
52.5°	1226.0	1141.3	1056.5	976.9	942.0	897.1	822.3	762.6	707.7	677.7	647.9
55°	1036.6	942.0	852.3	767.5	722.7	677.7	603.0	533.3	468.5	428.6	403.7
57.5°	892.0	802.5	707.7	618.0	578.1	528.2	448.6	373.7	313.9	269.2	244.3
60°	787.5	697.8	613.1	518.3	478.4	428.6	343.9	274.0	214.3	174.4	144.6
62.5°	697.8	618.0	528.2	443.6	403.7	353.8	274.0	204.4	149.5	109.6	84.7
65°	633.0	553.2	478.4	393.7	358.9	309.1	234.2	169.5	119.7	84.7	59.8
67.5°	558.2	488.3	413.6	343.9	309.1	269.2	199.3	144.6	99.7	69.7	49.8
70°	468.5	413.6	348.8	284.2	259.3	224.2	164.5	119.7	79.8	54.9	39.9
72.5°	373.7	328.9	279.1	229.3	209.2	174.4	134.5	94.8	59.8	39.9	30.0
75°	284.2	249.1	209.2	174.4	154.5	134.5	99.7	69.7	44.8	30.0	19.9
77.5°	194.4	179.5	149.5	119.7	109.6	94.8	64.8	44.8	30.0	19.9	9.9
80°	134.5	119.7	99.7	79.8	69.7	59.8	39.9	30.0	15.0	9.9	5.1
82.5°	84.7	69.7	59.8	49.8	44.8	34.8	24.9	15.0	9.9	5.1	5.1
85°	44.8	39.9	34.8	24.9	24.9	19.9	15.0	9.9	5.1	0.0	0.0
87.5°	24.9	19.9	15.0	9.9	9.9	5.1	5.1	5.1	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°	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1
2.5°	5243.1	5243.1	5238.0	5297.8	5228.1	5297.8	5263.0	5297.8	5248.0	5243.1	5248.0
5°	5282.8	5297.8	5302.9	5357.6	5292.9	5377.6	5347.6	5377.6	5342.8	5352.7	5367.7
7.5°	5362.6	5387.5	5382.7	5452.3	5387.5	5482.3	5462.3	5507.2	5472.2	5482.3	5502.2
10°	5452.3	5482.3	5487.2	5557.1	5497.1	5611.7	5586.8	5636.7	5606.9	5621.9	5646.8
12.5°	5557.1	5591.9	5596.9	5676.6	5611.7	5731.4	5716.5	5766.3	5741.4	5756.4	5786.3
15°	5636.7	5686.5	5696.6	5776.2	5706.5	5831.1	5821.2	5886.0	5846.1	5871.0	5895.9
17.5°	5676.6	5721.5	5741.4	5816.1	5756.4	5880.9	5871.0	5925.9	5895.9	5920.8	5950.8
20°	5651.6	5706.5	5721.5	5796.3	5736.5	5861.1	5846.1	5901.0	5871.0	5890.9	5920.8
22.5°	5561.9	5616.8	5636.7	5706.5	5651.6	5766.3	5761.4	5811.2	5771.3	5796.3	5821.2
25°	5402.5	5462.3	5472.2	5537.0	5477.3	5596.9	5586.8	5641.7	5611.7	5626.7	5661.6
27.5°	5173.2	5243.1	5257.9	5312.8	5268.0	5367.7	5367.7	5412.4	5377.6	5377.6	5412.4
30°	4899.2	4968.9	4978.8	5023.7	4983.8	5073.6	5078.6	5123.4	5068.5	5098.5	5103.5
32.5°	4565.2	4610.1	4639.9	4679.8	4620.1	4734.7	4719.7	4754.6	4724.8	4724.8	4749.7
35°	4161.5	4216.4	4231.4	4281.2	4231.4	4320.9	4320.9	4341.0	4311.0	4311.0	4350.9
37.5°	3723.0	3762.9	3767.8	3817.6	3777.7	3852.4	3847.6	3862.5	3832.6	3852.4	3852.4
40°	3209.5	3239.5	3249.4	3274.4	3269.5	3324.2	3319.3	3329.2	3314.3	3319.3	3329.2
42.5°	2611.6	2651.3	2671.4	2691.2	2661.4	2736.2	2721.2	2736.2	2731.1	2736.2	2751.2
45°	1923.8	1953.8	1968.6	1973.6	1963.7	2008.5	2043.3	2013.5	2018.4	2008.5	2028.5
47.5°	1390.5	1395.5	1385.4	1415.4	1390.5	1410.5	1420.5	1425.3	1395.5	1390.5	1410.5
50°	952.0	976.9	942.0	956.8	952.0	971.8	961.9	966.9	937.0	952.0	942.0
52.5°	633.0	627.9	618.0	623.0	613.1	613.1	613.1	623.0	603.0	593.1	583.1
55°	383.8	373.7	353.8	348.8	348.8	353.8	343.9	334.0	334.0	328.9	328.9
57.5°	224.2	209.2	199.3	194.4	184.3	179.5	174.4	174.4	164.5	164.5	164.5
60°	124.6	109.6	99.7	89.7	89.7	84.7	79.8	74.7	74.7	74.7	69.7
62.5°	64.8	54.9	44.8	39.9	39.9	34.8	30.0	30.0	30.0	30.0	24.9
65°	44.8	34.8	30.0	24.9	24.9	19.9	19.9	19.9	19.9	19.9	19.9
67.5°	34.8	30.0	24.9	19.9	19.9	19.9	15.0	15.0	15.0	15.0	15.0
70°	30.0	19.9	19.9	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
72.5°	19.9	19.9	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
75°	15.0	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	0.0	0.0	0.0	0.0	0.0
80°	5.1	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: P685265

CATALOG NUMBER: LX6C90D010 EX6909027 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1	5213.1
2.5°	5292.9	5287.9	5292.9	5302.9	5282.8	5342.8	5312.8	5342.8
5°	5407.6	5412.4	5417.5	5432.5	5407.6	5482.3	5442.4	5487.2
7.5°	5557.1	5561.9	5567.0	5582.0	5567.0	5641.7	5596.9	5636.7
10°	5711.6	5721.5	5721.5	5746.4	5731.4	5801.1	5771.3	5821.2
12.5°	5856.0	5865.9	5876.1	5890.9	5880.9	5955.7	5930.8	5970.7
15°	5970.7	5990.5	5995.6	6015.4	6005.5	6085.3	6055.3	6095.2
17.5°	6025.5	6045.4	6045.4	6070.3	6060.4	6145.0	6105.2	6150.1
20°	5995.6	6010.6	6015.4	6040.5	6030.4	6115.3	6075.4	6130.1
22.5°	5901.0	5905.8	5910.9	5935.8	5930.8	6005.5	5970.7	6005.5
25°	5726.4	5741.4	5736.5	5756.4	5756.4	5816.1	5776.2	5806.2
27.5°	5477.3	5492.2	5492.2	5517.2	5497.1	5557.1	5517.2	5561.9
30°	5173.2	5188.2	5178.3	5198.1	5178.3	5238.0	5208.1	5223.1
32.5°	4809.5	4809.5	4814.3	4819.4	4809.5	4864.2	4834.4	4864.2
35°	4375.8	4385.7	4390.8	4395.9	4385.7	4425.6	4390.8	4410.6
37.5°	3887.5	3912.4	3907.3	3912.4	3897.4	3947.2	3917.2	3927.4
40°	3364.1	3364.1	3359.0	3369.1	3354.2	3394.1	3374.0	3383.9
42.5°	2756.0	2771.0	2751.2	2776.1	2736.2	2790.9	2771.0	2756.0
45°	2068.4	2048.3	2043.3	2048.3	2033.4	2038.4	2053.4	2043.3
47.5°	1410.5	1410.5	1400.4	1385.4	1405.5	1410.5	1390.5	1390.5
50°	946.9	946.9	937.0	931.9	942.0	937.0	927.0	942.0
52.5°	603.0	583.1	583.1	593.1	583.1	573.2	588.2	578.1
55°	328.9	319.0	319.0	328.9	319.0	319.0	313.9	323.9
57.5°	159.4	164.5	159.4	159.4	159.4	159.4	154.5	159.4
60°	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
62.5°	30.0	30.0	24.9	24.9	24.9	24.9	24.9	24.9
65°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
67.5°	15.0	15.0	15.0	15.0	15.0	19.9	15.0	15.0
70°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
72.5°	15.0	15.0	19.9	19.9	19.9	19.9	19.9	19.9
75°	9.9	9.9	9.9	5.1	5.1	5.1	5.1	5.1
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)