

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: P685275

Luminaire Tested: **LX6C90D010 EX6909035 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P685275  
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 EX6909035 6LCSWLI  
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

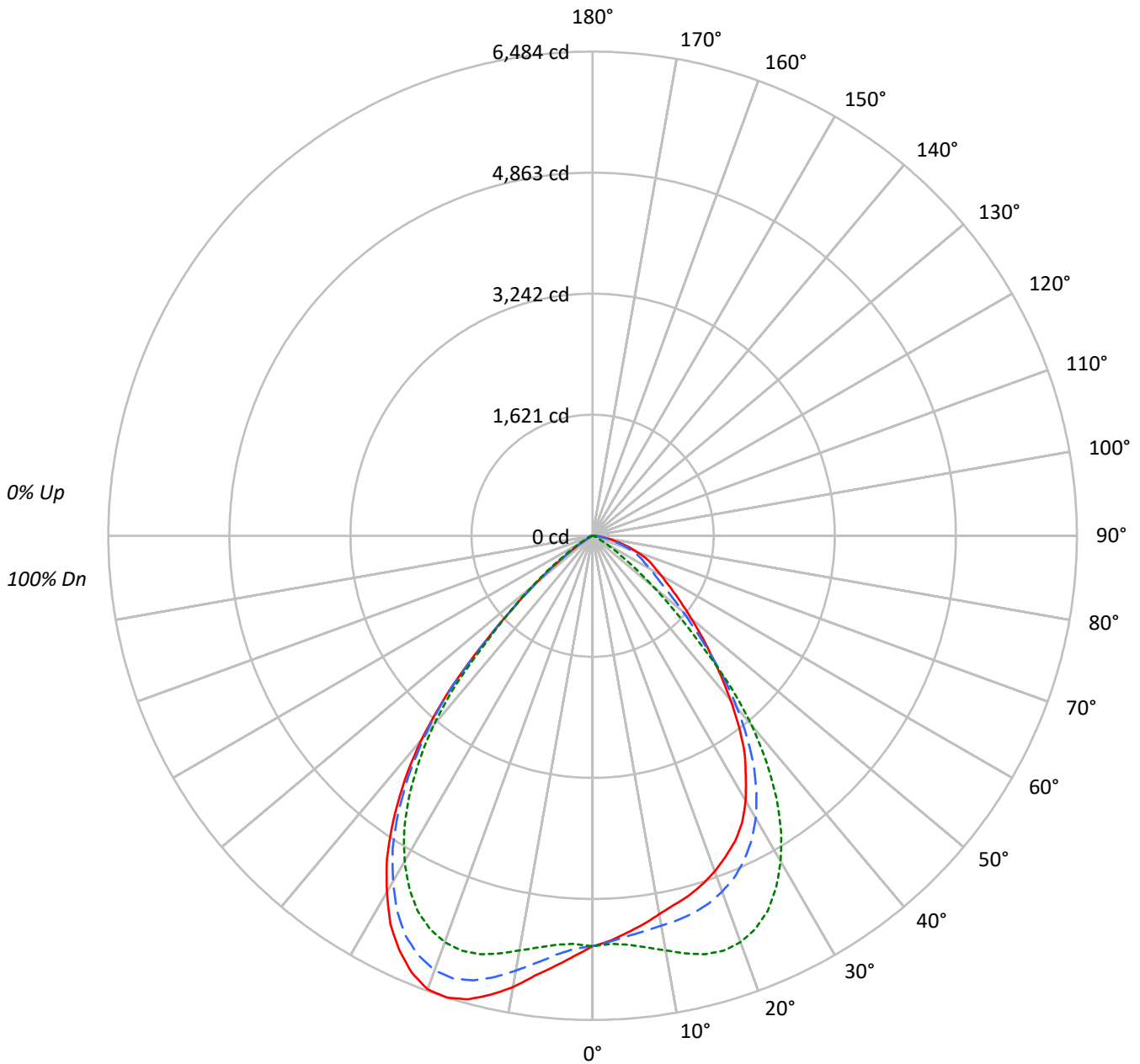
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10047.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 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				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	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

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

	0°	90°	180°
0°	301319	301319	301319
5°	293506	302470	318374
10°	286367	313861	341655
15°	283021	329247	364735
20°	278963	337826	377059
25°	273034	335324	370292
30°	259458	318669	348598
35°	237376	287307	311219
40°	205320	237280	255328
45°	173150	155629	167025
50°	146997	90078	84705
55°	127565	43191	32639
60°	115221	20163	8059
65°	111776	11584	2711
70°	100225	9280	2532
75°	82372	6693	1123
80°	61340	3315	0
85°	52898	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.9	5.3
10°-20°	1618.0	16.1
20°-30°	2472.2	24.6
30°-40°	2585.7	25.7
40°-50°	1677.4	16.7
50°-60°	666.0	6.6
60°-70°	315.9	3.1
70°-80°	150.3	1.5
80°-90°	30.6	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°	4621.1	46.0
0°-40°	7206.8	71.7
0°-60°	9550.2	95.1
0°-90°	10047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5496	5496	5496	5496	5496	
5°	5334	5381	5496	5633	5786	504
15°	4987	5228	5801	6164	6427	1405
25°	4514	4798	5544	5917	6122	2067
35°	3547	3762	4293	4545	4650	2194
45°	2233	2212	2007	2128	2154	1738
55°	1335	1135	452	352	342	1209
65°	862	715	89	21	21	842
75°	389	315	32	10	5	419
85°	84	52	0	0	0	98
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°	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5
2.5°	5428.2	5438.6	5381.0	5365.2	5407.2	5422.8	5428.2	5412.4	5417.7	5438.6	5438.6
5°	5333.6	5344.0	5291.5	5275.7	5317.8	5328.4	5344.0	5338.9	5354.7	5386.1	5381.0
7.5°	5244.3	5260.1	5202.2	5181.3	5233.8	5260.1	5270.6	5270.6	5291.5	5333.6	5338.9
10°	5144.4	5165.5	5113.0	5102.3	5160.2	5186.4	5191.8	5202.2	5233.8	5291.5	5302.0
12.5°	5060.4	5081.4	5044.6	5028.8	5091.8	5118.1	5128.6	5149.7	5186.4	5260.1	5270.6
15°	4986.8	5002.6	4960.5	4950.0	5013.0	5044.6	5049.8	5081.4	5128.6	5212.7	5228.5
17.5°	4892.2	4902.6	4871.2	4860.8	4923.8	4955.2	4960.5	4997.2	5055.1	5139.2	5165.5
20°	4781.8	4792.4	4760.8	4750.4	4813.4	4850.1	4855.4	4887.0	4955.2	5044.6	5070.9
22.5°	4650.4	4671.5	4634.8	4624.1	4687.3	4718.7	4734.5	4760.8	4829.2	4918.4	4955.2
25°	4513.9	4513.9	4487.7	4482.3	4540.2	4576.9	4571.6	4608.3	4676.7	4766.2	4797.6
27.5°	4335.2	4329.9	4303.6	4298.5	4361.5	4393.1	4382.4	4419.3	4482.3	4571.6	4603.2
30°	4098.8	4109.3	4072.5	4061.9	4114.6	4167.1	4161.8	4198.5	4261.5	4345.7	4366.8
32.5°	3815.0	3825.4	3820.3	3804.5	3851.7	3878.0	3893.8	3920.0	3972.6	4061.9	4083.0
35°	3547.0	3531.2	3510.2	3510.2	3557.4	3599.5	3583.7	3615.3	3667.8	3757.1	3762.4
37.5°	3215.9	3210.6	3200.1	3189.7	3242.2	3252.7	3258.0	3279.0	3326.4	3399.8	3389.4
40°	2869.1	2874.3	2869.1	2848.0	2879.6	2921.7	2916.3	2927.0	2968.9	3021.4	3005.8
42.5°	2543.3	2543.3	2543.3	2522.3	2559.1	2580.2	2590.7	2585.3	2595.8	2643.2	2622.1
45°	2233.4	2238.5	2233.4	2228.0	2233.4	2243.8	2233.4	2228.0	2228.0	2243.8	2212.2
47.5°	1965.4	1965.4	1949.6	1933.8	1949.6	1954.7	1939.1	1923.3	1918.0	1912.8	1860.3
50°	1723.6	1718.3	1713.1	1686.9	1702.5	1707.8	1686.9	1676.2	1655.3	1629.0	1566.0
52.5°	1513.5	1508.1	1502.8	1476.5	1487.2	1492.3	1471.4	1450.3	1424.0	1403.1	1324.3
55°	1334.7	1329.4	1329.4	1313.8	1303.1	1313.8	1292.7	1276.9	1240.1	1213.9	1135.1
57.5°	1182.3	1182.3	1171.8	1156.0	1161.3	1161.3	1140.4	1119.3	1087.7	1056.2	993.2
60°	1050.9	1050.9	1050.9	1035.1	1035.1	1035.1	1024.6	1003.7	977.4	945.8	882.8
62.5°	945.8	945.8	940.5	924.9	930.0	930.0	919.6	898.6	872.4	851.2	788.2
65°	861.7	861.7	861.7	846.1	846.1	851.2	840.8	819.8	798.7	772.4	714.6
67.5°	756.6	751.5	751.5	740.8	746.2	751.5	740.8	725.2	699.0	683.2	630.6
70°	625.3	630.6	635.8	620.2	625.3	625.3	620.2	604.4	588.6	572.8	525.6
72.5°	509.8	509.8	504.4	499.3	499.3	504.4	494.0	478.2	467.7	457.2	420.3
75°	388.9	383.6	388.9	378.4	378.4	378.4	367.8	362.6	357.3	341.5	315.2
77.5°	283.8	278.5	278.5	268.0	273.3	273.3	268.0	257.5	246.9	241.7	220.6
80°	194.3	194.3	194.3	189.2	189.2	183.9	183.9	178.7	168.1	162.9	152.5
82.5°	131.3	131.3	131.3	126.2	126.2	126.2	120.9	115.5	110.4	105.1	94.6
85°	84.1	84.1	84.1	78.8	78.8	78.8	73.5	73.5	68.3	63.0	52.5
87.5°	47.2	47.2	47.2	42.1	42.1	42.1	42.1	42.1	36.7	31.6	26.3
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°	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5
2.5°	5475.4	5401.9	5449.1	5449.1	5433.5	5475.4	5501.9	5522.8	5517.5	5470.2	5464.9
5°	5433.5	5370.3	5422.8	5428.2	5412.4	5470.2	5507.0	5533.3	5538.6	5496.5	5501.9
7.5°	5401.9	5349.4	5417.7	5438.6	5433.5	5486.1	5528.1	5570.0	5591.1	5559.5	5564.9
10°	5386.1	5344.0	5417.7	5449.1	5454.4	5512.3	5575.3	5633.2	5659.5	5638.3	5654.1
12.5°	5365.2	5338.9	5422.8	5470.2	5491.2	5549.1	5627.9	5696.2	5738.3	5727.8	5759.2
15°	5344.0	5323.1	5422.8	5491.2	5517.5	5570.0	5659.5	5759.2	5806.6	5801.3	5843.3
17.5°	5291.5	5286.4	5391.4	5464.9	5501.9	5564.9	5648.8	5769.7	5817.1	5827.5	5880.1
20°	5207.6	5207.6	5323.1	5401.9	5444.0	5501.9	5606.9	5722.5	5780.3	5790.8	5848.7
22.5°	5091.8	5102.3	5212.7	5291.5	5354.7	5396.6	5507.0	5627.9	5680.4	5696.2	5759.2
25°	4939.6	4950.0	5055.1	5133.9	5202.2	5249.4	5354.7	5464.9	5528.1	5543.7	5591.1
27.5°	4739.9	4760.8	4860.8	4939.6	4997.2	5028.8	5139.2	5254.8	5302.0	5317.8	5365.2
30°	4508.6	4513.9	4613.7	4682.0	4739.9	4766.2	4860.8	4981.6	5018.4	5034.2	5102.3
32.5°	4224.8	4219.7	4314.3	4377.3	4424.5	4456.1	4555.8	4634.8	4671.5	4697.8	4734.5
35°	3883.3	3878.0	3946.3	4020.0	4056.7	4067.2	4167.1	4251.1	4272.2	4293.1	4340.5
37.5°	3499.8	3499.8	3557.4	3594.4	3636.2	3652.0	3699.4	3794.0	3830.8	3825.4	3862.2
40°	3095.1	3074.1	3116.0	3152.9	3163.4	3168.5	3215.9	3289.4	3315.7	3315.7	3342.0
42.5°	2669.5	2637.9	2643.2	2664.1	2674.6	2637.9	2669.5	2716.7	2700.9	2722.0	2727.3
45°	2217.6	2170.2	2149.2	2101.8	2112.5	2075.6	2054.6	2065.1	2060.0	2007.4	2017.9
47.5°	1849.6	1765.7	1728.7	1660.6	1644.8	1602.7	1576.5	1529.1	1487.2	1487.2	1460.7
50°	1539.7	1455.6	1381.9	1303.1	1276.9	1240.1	1182.3	1119.3	1087.7	1056.2	1030.0
52.5°	1292.7	1203.4	1113.9	1030.0	993.2	945.8	867.0	804.0	746.2	714.6	683.2
55°	1093.0	993.2	898.6	809.2	762.0	714.6	635.8	562.3	494.0	451.9	425.6
57.5°	940.5	846.1	746.2	651.6	609.5	557.0	473.0	394.0	331.0	283.8	257.5
60°	830.3	735.7	646.4	546.5	504.4	451.9	362.6	288.9	225.9	183.9	152.5
62.5°	735.7	651.6	557.0	467.7	425.6	373.1	288.9	215.5	157.6	115.5	89.3
65°	667.4	583.2	504.4	415.2	378.4	325.9	246.9	178.7	126.2	89.3	63.0
67.5°	588.6	514.9	436.1	362.6	325.9	283.8	210.1	152.5	105.1	73.5	52.5
70°	494.0	436.1	367.8	299.6	273.3	236.4	173.4	126.2	84.1	57.9	42.1
72.5°	394.0	346.8	294.3	241.7	220.6	183.9	141.8	99.9	63.0	42.1	31.6
75°	299.6	262.7	220.6	183.9	162.9	141.8	105.1	73.5	47.2	31.6	20.9
77.5°	205.0	189.2	157.6	126.2	115.5	99.9	68.3	47.2	31.6	20.9	10.5
80°	141.8	126.2	105.1	84.1	73.5	63.0	42.1	31.6	15.8	10.5	5.3
82.5°	89.3	73.5	63.0	52.5	47.2	36.7	26.3	15.8	10.5	5.3	5.3
85°	47.2	42.1	36.7	26.3	26.3	20.9	15.8	10.5	5.3	0.0	0.0
87.5°	26.3	20.9	15.8	10.5	10.5	5.3	5.3	5.3	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°	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5
2.5°	5528.1	5528.1	5522.8	5585.8	5512.3	5585.8	5549.1	5585.8	5533.3	5528.1	5533.3
5°	5570.0	5585.8	5591.1	5648.8	5580.7	5669.9	5638.3	5669.9	5633.2	5643.7	5659.5
7.5°	5654.1	5680.4	5675.3	5748.7	5680.4	5780.3	5759.2	5806.6	5769.7	5780.3	5801.3
10°	5748.7	5780.3	5785.5	5859.1	5795.9	5916.8	5890.5	5943.1	5911.7	5927.5	5953.7
12.5°	5859.1	5895.9	5901.2	5985.1	5916.8	6043.0	6027.2	6079.7	6053.5	6069.3	6100.9
15°	5943.1	5995.6	6006.3	6090.2	6016.7	6148.1	6137.6	6205.9	6163.9	6190.1	6216.4
17.5°	5985.1	6032.5	6053.5	6132.3	6069.3	6200.6	6190.1	6248.0	6216.4	6242.7	6274.3
20°	5958.9	6016.7	6032.5	6111.3	6048.3	6179.7	6163.9	6221.8	6190.1	6211.1	6242.7
22.5°	5864.3	5922.1	5943.1	6016.7	5958.9	6079.7	6074.6	6127.1	6085.1	6111.3	6137.6
25°	5696.2	5759.2	5769.7	5838.0	5775.0	5901.2	5890.5	5948.4	5916.8	5932.6	5969.3
27.5°	5454.4	5528.1	5543.7	5601.6	5554.4	5659.5	5659.5	5706.7	5669.9	5669.9	5706.7
30°	5165.5	5239.0	5249.4	5296.8	5254.8	5349.4	5354.7	5401.9	5344.0	5375.6	5381.0
32.5°	4813.4	4860.8	4892.2	4934.2	4871.2	4992.1	4976.3	5013.0	4981.6	4981.6	5007.9
35°	4387.7	4445.6	4461.4	4513.9	4461.4	4555.8	4555.8	4576.9	4545.3	4545.3	4587.4
37.5°	3925.4	3967.4	3972.6	4025.1	3983.0	4061.9	4056.7	4072.5	4040.9	4061.9	4061.9
40°	3384.0	3415.6	3426.1	3452.4	3447.2	3504.9	3499.8	3510.2	3494.4	3499.8	3510.2
42.5°	2753.6	2795.5	2816.6	2837.5	2806.1	2884.9	2869.1	2884.9	2879.6	2884.9	2900.7
45°	2028.4	2060.0	2075.6	2080.9	2070.4	2117.6	2154.4	2123.0	2128.1	2117.6	2138.8
47.5°	1466.1	1471.4	1460.7	1492.3	1466.1	1487.2	1497.7	1502.8	1471.4	1466.1	1487.2
50°	1003.7	1030.0	993.2	1008.8	1003.7	1024.6	1014.2	1019.5	987.9	1003.7	993.2
52.5°	667.4	662.0	651.6	656.9	646.4	646.4	646.4	656.9	635.8	625.3	614.8
55°	404.7	394.0	373.1	367.8	367.8	373.1	362.6	352.1	352.1	346.8	346.8
57.5°	236.4	220.6	210.1	205.0	194.3	189.2	183.9	183.9	173.4	173.4	173.4
60°	131.3	115.5	105.1	94.6	94.6	89.3	84.1	78.8	78.8	78.8	73.5
62.5°	68.3	57.9	47.2	42.1	42.1	36.7	31.6	31.6	31.6	31.6	26.3
65°	47.2	36.7	31.6	26.3	26.3	20.9	20.9	20.9	20.9	20.9	20.9
67.5°	36.7	31.6	26.3	20.9	20.9	20.9	15.8	15.8	15.8	15.8	15.8
70°	31.6	20.9	20.9	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
72.5°	20.9	20.9	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
75°	15.8	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	0.0	0.0	0.0	0.0	0.0
80°	5.3	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: P685275

CATALOG NUMBER: LX6C90D010 EX6909035 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5	5496.5
2.5°	5580.7	5575.3	5580.7	5591.1	5570.0	5633.2	5601.6	5633.2
5°	5701.5	5706.7	5712.0	5727.8	5701.5	5780.3	5738.3	5785.5
7.5°	5859.1	5864.3	5869.6	5885.4	5869.6	5948.4	5901.2	5943.1
10°	6022.1	6032.5	6032.5	6058.8	6043.0	6116.5	6085.1	6137.6
12.5°	6174.3	6184.8	6195.5	6211.1	6200.6	6279.4	6253.2	6295.2
15°	6295.2	6316.2	6321.5	6342.4	6332.0	6416.1	6384.5	6426.6
17.5°	6353.1	6374.0	6374.0	6400.3	6389.8	6479.1	6437.0	6484.4
20°	6321.5	6337.3	6342.4	6368.9	6358.2	6447.7	6405.6	6463.3
22.5°	6221.8	6226.9	6232.2	6258.5	6253.2	6332.0	6295.2	6332.0
25°	6037.7	6053.5	6048.3	6069.3	6069.3	6132.3	6090.2	6121.8
27.5°	5775.0	5790.8	5790.8	5817.1	5795.9	5859.1	5817.1	5864.3
30°	5454.4	5470.2	5459.8	5480.7	5459.8	5522.8	5491.2	5507.0
32.5°	5070.9	5070.9	5076.0	5081.4	5070.9	5128.6	5097.2	5128.6
35°	4613.7	4624.1	4629.5	4634.8	4624.1	4666.2	4629.5	4650.4
37.5°	4098.8	4125.1	4119.7	4125.1	4109.3	4161.8	4130.2	4140.9
40°	3547.0	3547.0	3541.6	3552.3	3536.5	3578.6	3557.4	3567.9
42.5°	2905.9	2921.7	2900.7	2927.0	2884.9	2942.6	2921.7	2905.9
45°	2180.8	2159.7	2154.4	2159.7	2143.9	2149.2	2165.0	2154.4
47.5°	1487.2	1487.2	1476.5	1460.7	1481.9	1487.2	1466.1	1466.1
50°	998.4	998.4	987.9	982.6	993.2	987.9	977.4	993.2
52.5°	635.8	614.8	614.8	625.3	614.8	604.4	620.2	609.5
55°	346.8	336.3	336.3	346.8	336.3	336.3	331.0	341.5
57.5°	168.1	173.4	168.1	168.1	168.1	168.1	162.9	168.1
60°	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
62.5°	31.6	31.6	26.3	26.3	26.3	26.3	26.3	26.3
65°	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
67.5°	15.8	15.8	15.8	15.8	15.8	20.9	15.8	15.8
70°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
72.5°	15.8	15.8	20.9	20.9	20.9	20.9	20.9	20.9
75°	10.5	10.5	10.5	5.3	5.3	5.3	5.3	5.3
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)