

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: P683936

Luminaire Tested: **LX6C100D010 EX6C1009727 6LCSWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P683936  
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 EX6C1009727 6LCSWH  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

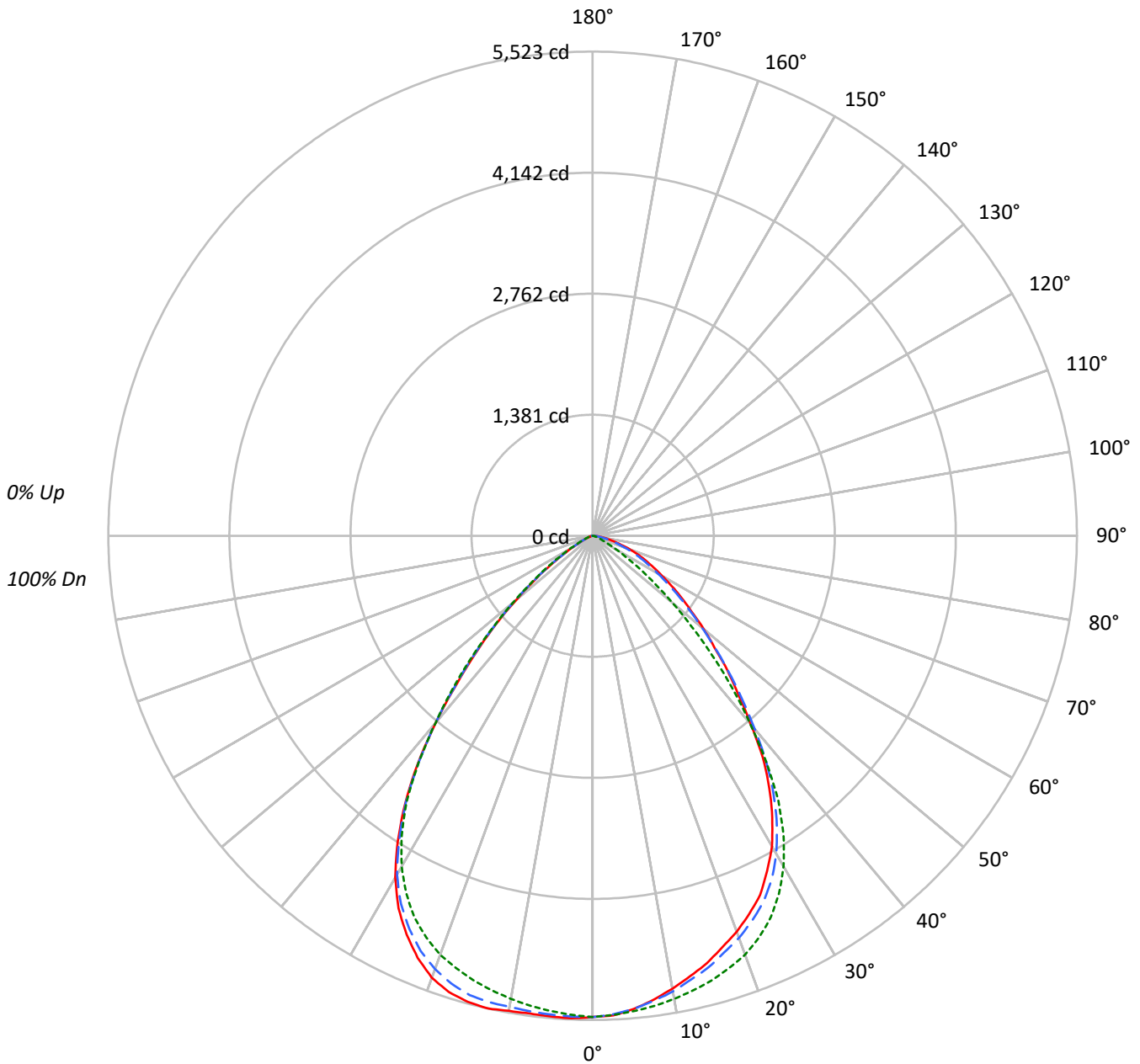
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9210.0 lumens  
Efficiency: N/A  
Efficacy: 80.5 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									
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	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°	300952	300952	300952
5°	298084	299537	302828
10°	291940	298575	306329
15°	286352	298015	312317
20°	280415	296662	312910
25°	273506	290745	303580
30°	258958	275732	284968
35°	235161	247147	249362
40°	200705	199746	198794
45°	168591	149574	144953
50°	140806	101216	96133
55°	118505	62096	56399
60°	100321	32717	28342
65°	86871	17200	13750
70°	72256	10627	7437
75°	53397	7032	4215
80°	41861	4167	2115
85°	33399	4214	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.4	5.6
10°-20°	1481.4	16.1
20°-30°	2187.5	23.8
30°-40°	2254.4	24.5
40°-50°	1557.1	16.9
50°-60°	767.5	8.3
60°-70°	311.0	3.4
70°-80°	110.8	1.2
80°-90°	22.9	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°	4186.3	45.5
0°-40°	6440.7	69.9
0°-60°	8765.2	95.2
0°-90°	9210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9210.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5490	5490	5490	5490	5490	
5°	5417	5417	5443	5483	5503	512
15°	5046	5099	5251	5424	5503	1421
25°	4522	4608	4807	4946	5019	2067
35°	3514	3600	3693	3713	3726	2177
45°	2175	2188	1929	1903	1870	1681
55°	1240	1194	650	610	590	1120
65°	670	603	133	106	106	665
75°	252	212	33	20	20	283
85°	53	40	7	0	0	65
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°	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8
2.5°	5476.4	5456.7	5469.9	5443.2	5476.4	5443.2	5449.9	5456.7	5449.9	5456.7	5463.1
5°	5416.8	5396.8	5416.8	5383.6	5416.8	5396.8	5396.8	5403.6	5403.6	5410.0	5416.8
7.5°	5337.2	5317.3	5337.2	5304.1	5343.7	5324.0	5324.0	5337.2	5330.5	5337.2	5350.5
10°	5244.5	5217.8	5237.8	5217.8	5257.7	5231.0	5244.5	5244.5	5244.5	5264.2	5277.7
12.5°	5145.0	5118.3	5145.0	5111.9	5151.5	5131.8	5138.3	5158.2	5164.7	5178.2	5184.7
15°	5045.5	5012.4	5025.6	5005.6	5045.5	5025.6	5032.3	5058.7	5058.7	5078.7	5098.6
17.5°	4919.6	4892.9	4919.6	4892.9	4926.1	4912.9	4926.1	4946.1	4946.1	4966.0	4985.7
20°	4806.7	4780.3	4800.2	4780.3	4820.1	4800.2	4806.7	4833.4	4839.8	4859.8	4879.7
22.5°	4667.6	4647.6	4660.8	4641.1	4680.8	4667.6	4674.3	4700.7	4707.5	4720.7	4753.8
25°	4521.7	4481.8	4501.8	4488.5	4528.4	4508.5	4521.7	4548.1	4561.6	4581.3	4608.0
27.5°	4309.5	4289.6	4302.8	4302.8	4336.0	4316.3	4322.7	4349.4	4369.1	4389.1	4422.2
30°	4090.9	4057.7	4070.9	4077.4	4104.1	4090.9	4104.1	4130.5	4137.3	4163.7	4190.1
32.5°	3812.4	3798.9	3825.6	3812.4	3825.6	3825.6	3832.1	3852.0	3865.2	3878.7	3911.9
35°	3513.9	3487.5	3513.9	3500.7	3533.9	3513.9	3533.9	3553.8	3553.8	3580.3	3600.2
37.5°	3189.1	3155.9	3169.1	3169.1	3182.3	3175.9	3175.9	3209.0	3215.5	3235.5	3255.4
40°	2804.6	2791.2	2817.8	2811.1	2817.8	2817.8	2824.3	2844.3	2857.5	2864.2	2870.9
42.5°	2459.8	2466.3	2473.0	2473.0	2473.0	2473.0	2473.0	2499.5	2493.0	2512.9	2519.4
45°	2174.6	2148.2	2161.4	2154.9	2174.6	2154.9	2174.6	2194.5	2181.3	2201.3	2187.8
47.5°	1882.9	1882.9	1882.9	1876.4	1889.6	1882.9	1896.1	1902.8	1902.8	1902.8	1896.1
50°	1651.0	1631.1	1637.5	1637.5	1644.3	1637.5	1651.0	1657.5	1657.5	1644.3	1617.9
52.5°	1425.4	1418.9	1418.9	1432.1	1432.1	1425.4	1425.4	1425.4	1425.4	1405.7	1392.2
55°	1239.9	1226.7	1233.1	1233.1	1233.1	1233.1	1239.9	1233.1	1233.1	1213.2	1193.5
57.5°	1074.1	1060.9	1060.9	1060.9	1067.3	1060.9	1060.9	1060.9	1054.1	1034.2	1007.8
60°	915.0	908.3	915.0	915.0	921.5	915.0	915.0	915.0	901.8	881.9	855.2
62.5°	782.4	782.4	782.4	788.9	788.9	782.4	782.4	775.6	769.2	742.5	716.1
65°	669.7	662.9	669.7	669.7	676.2	676.2	669.7	662.9	656.5	629.8	603.4
67.5°	557.0	550.3	557.0	557.0	563.5	557.0	557.0	557.0	537.0	523.8	497.1
70°	450.8	444.3	444.3	444.3	450.8	437.6	444.3	444.3	431.1	411.1	384.5
72.5°	344.8	344.8	344.8	344.8	344.8	344.8	338.1	338.1	324.9	304.9	291.7
75°	252.1	252.1	258.5	258.5	252.1	252.1	252.1	245.3	238.6	225.4	212.2
77.5°	185.7	185.7	185.7	185.7	179.0	179.0	179.0	172.3	165.8	159.1	145.9
80°	132.6	132.6	132.6	125.9	132.6	125.9	125.9	125.9	112.7	106.0	99.5
82.5°	92.7	86.3	86.3	86.3	86.3	86.3	86.3	79.5	79.5	73.1	66.3
85°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	46.4	39.9	39.9
87.5°	26.4	33.2	33.2	33.2	33.2	33.2	33.2	26.4	26.4	26.4	19.9
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°	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8
2.5°	5463.1	5463.1	5476.4	5456.7	5489.8	5469.9	5463.1	5496.3	5476.4	5469.9	5483.1
5°	5416.8	5423.5	5430.0	5416.8	5449.9	5430.0	5430.0	5463.1	5449.9	5443.2	5463.1
7.5°	5357.2	5363.7	5376.9	5370.4	5396.8	5383.6	5390.3	5423.5	5410.0	5410.0	5430.0
10°	5284.1	5297.4	5310.8	5310.8	5343.7	5330.5	5330.5	5370.4	5357.2	5363.7	5390.3
12.5°	5197.9	5217.8	5237.8	5244.5	5277.7	5257.7	5264.2	5310.8	5304.1	5310.8	5337.2
15°	5105.1	5131.8	5151.5	5151.5	5191.4	5171.4	5191.4	5237.8	5224.5	5251.0	5284.1
17.5°	4999.2	5025.6	5052.0	5058.7	5098.6	5085.2	5111.9	5158.2	5158.2	5171.4	5211.3
20°	4899.7	4932.8	4946.1	4966.0	5005.6	4999.2	5012.4	5065.5	5065.5	5085.2	5125.1
22.5°	4767.0	4800.2	4826.6	4846.6	4879.7	4879.7	4899.7	4946.1	4946.1	4959.3	4999.2
25°	4621.2	4660.8	4680.8	4700.7	4733.9	4727.2	4747.1	4787.0	4793.5	4806.7	4846.6
27.5°	4435.4	4468.6	4495.3	4508.5	4554.9	4528.4	4548.1	4594.8	4588.0	4601.2	4634.4
30°	4203.6	4236.7	4263.2	4263.2	4302.8	4302.8	4322.7	4342.7	4342.7	4355.9	4382.6
32.5°	3931.6	3971.5	3971.5	3991.4	4017.8	3991.4	4017.8	4044.3	4031.0	4051.0	4070.9
35°	3619.9	3639.9	3646.6	3646.6	3666.5	3659.8	3653.1	3673.0	3659.8	3693.0	3712.9
37.5°	3242.2	3268.6	3255.4	3268.6	3261.9	3242.2	3242.2	3275.3	3248.7	3255.4	3275.3
40°	2877.4	2877.4	2870.9	2837.8	2844.3	2824.3	2817.8	2824.3	2797.9	2791.2	2817.8
42.5°	2499.5	2493.0	2473.0	2426.7	2433.1	2400.0	2373.5	2373.5	2360.3	2353.6	2360.3
45°	2161.4	2141.4	2108.3	2055.4	2041.9	2015.5	1962.4	1949.2	1929.3	1929.3	1936.0
47.5°	1849.7	1823.3	1770.2	1710.6	1677.4	1644.3	1591.2	1571.2	1538.1	1524.9	1538.1
50°	1591.2	1544.8	1478.5	1392.2	1359.1	1319.4	1266.3	1233.1	1200.0	1186.8	1180.0
52.5°	1352.6	1286.3	1219.9	1114.0	1087.3	1047.7	974.6	941.4	908.3	881.9	881.9
55°	1146.9	1087.3	994.5	895.1	855.2	815.5	742.5	696.1	662.9	649.7	636.5
57.5°	961.4	895.1	808.8	702.8	662.9	623.3	550.3	503.9	470.7	450.8	437.6
60°	808.8	736.0	649.7	557.0	510.6	470.7	397.9	351.3	318.1	298.4	285.0
62.5°	662.9	603.4	517.1	431.1	391.2	351.3	291.7	245.3	212.2	199.0	179.0
65°	557.0	497.1	417.6	344.8	311.7	271.8	218.9	179.0	152.6	132.6	119.4
67.5°	450.8	404.4	338.1	271.8	238.6	212.2	165.8	132.6	106.0	92.7	86.3
70°	358.0	311.7	258.5	205.4	185.7	159.1	125.9	92.7	79.5	66.3	59.6
72.5°	265.3	232.1	192.2	152.6	132.6	119.4	86.3	73.1	53.1	46.4	39.9
75°	192.2	165.8	139.1	106.0	92.7	86.3	66.3	46.4	39.9	33.2	26.4
77.5°	132.6	119.4	92.7	73.1	66.3	59.6	46.4	33.2	26.4	19.9	19.9
80°	86.3	73.1	59.6	46.4	46.4	39.9	26.4	19.9	19.9	13.2	13.2
82.5°	53.1	46.4	39.9	33.2	26.4	26.4	19.9	13.2	13.2	6.7	6.7
85°	33.2	26.4	19.9	19.9	13.2	13.2	13.2	6.7	6.7	6.7	6.7
87.5°	13.2	13.2	13.2	6.7	6.7	6.7	6.7	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°	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8
2.5°	5483.1	5483.1	5496.3	5476.4	5489.8	5489.8	5503.0	5476.4	5489.8	5496.3	5509.5
5°	5456.7	5463.1	5476.4	5469.9	5476.4	5476.4	5489.8	5456.7	5483.1	5483.1	5503.0
7.5°	5430.0	5430.0	5443.2	5436.7	5449.9	5456.7	5469.9	5443.2	5469.9	5469.9	5489.8
10°	5396.8	5396.8	5416.8	5410.0	5430.0	5436.7	5456.7	5430.0	5456.7	5463.1	5483.1
12.5°	5350.5	5357.2	5376.9	5376.9	5396.8	5410.0	5430.0	5416.8	5449.9	5456.7	5483.1
15°	5297.4	5310.8	5337.2	5330.5	5350.5	5370.4	5396.8	5376.9	5423.5	5436.7	5463.1
17.5°	5231.0	5244.5	5264.2	5264.2	5284.1	5297.4	5330.5	5317.3	5357.2	5363.7	5396.8
20°	5131.8	5151.5	5178.2	5171.4	5191.4	5204.6	5231.0	5217.8	5257.7	5270.9	5304.1
22.5°	5012.4	5025.6	5045.5	5045.5	5065.5	5078.7	5105.1	5085.2	5125.1	5131.8	5158.2
25°	4853.3	4866.5	4879.7	4886.5	4906.2	4912.9	4926.1	4912.9	4946.1	4952.8	4985.7
27.5°	4647.6	4654.3	4674.3	4674.3	4687.5	4694.0	4713.9	4687.5	4733.9	4733.9	4753.8
30°	4402.3	4395.8	4422.2	4409.0	4422.2	4422.2	4442.2	4429.0	4462.1	4448.9	4468.6
32.5°	4077.4	4090.9	4090.9	4077.4	4104.1	4097.4	4097.4	4084.1	4104.1	4110.6	4123.8
35°	3699.7	3719.4	3719.4	3726.1	3732.9	3712.9	3719.4	3679.7	3712.9	3719.4	3726.1
37.5°	3288.6	3268.6	3281.8	3261.9	3295.0	3255.4	3255.4	3229.0	3255.4	3255.4	3261.9
40°	2817.8	2811.1	2824.3	2811.1	2804.6	2797.9	2784.7	2764.7	2791.2	2777.9	2797.9
42.5°	2373.5	2366.8	2366.8	2353.6	2347.1	2347.1	2333.9	2320.4	2314.0	2314.0	2347.1
45°	1916.0	1929.3	1916.0	1909.6	1922.8	1909.6	1916.0	1889.6	1902.8	1889.6	1902.8
47.5°	1531.6	1538.1	1524.9	1511.6	1531.6	1511.6	1511.6	1491.7	1518.4	1518.4	1504.9
50°	1186.8	1180.0	1166.8	1180.0	1173.6	1173.6	1173.6	1153.6	1166.8	1146.9	1160.3
52.5°	875.1	868.6	868.6	861.9	868.6	861.9	861.9	855.2	855.2	848.7	855.2
55°	636.5	629.8	616.6	616.6	616.6	623.3	616.6	610.1	610.1	603.4	610.1
57.5°	431.1	417.6	417.6	417.6	417.6	411.1	411.1	404.4	411.1	404.4	411.1
60°	278.5	278.5	265.3	265.3	265.3	265.3	265.3	258.5	265.3	265.3	265.3
62.5°	172.3	172.3	165.8	159.1	165.8	159.1	159.1	159.1	165.8	159.1	165.8
65°	112.7	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
67.5°	79.5	73.1	73.1	73.1	73.1	73.1	73.1	66.3	73.1	73.1	73.1
70°	53.1	53.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
72.5°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
75°	26.4	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
77.5°	19.9	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
80°	13.2	13.2	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
82.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
85°	6.7	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	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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: P683936

CATALOG NUMBER: LX6C100D010 EX6C1009727 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8	5489.8
2.5°	5489.8	5496.3	5483.1	5489.8	5476.4	5489.8	5496.3	5509.5
5°	5476.4	5483.1	5469.9	5483.1	5469.9	5483.1	5489.8	5503.0
7.5°	5463.1	5476.4	5463.1	5476.4	5463.1	5476.4	5483.1	5496.3
10°	5463.1	5483.1	5469.9	5489.8	5469.9	5483.1	5496.3	5503.0
12.5°	5463.1	5483.1	5476.4	5489.8	5483.1	5496.3	5509.5	5522.7
15°	5449.9	5469.9	5456.7	5476.4	5469.9	5476.4	5503.0	5503.0
17.5°	5376.9	5396.8	5396.8	5410.0	5410.0	5430.0	5443.2	5456.7
20°	5284.1	5304.1	5297.4	5317.3	5317.3	5337.2	5350.5	5363.7
22.5°	5145.0	5171.4	5164.7	5184.7	5178.2	5191.4	5217.8	5211.3
25°	4966.0	4999.2	4992.4	5005.6	4999.2	4999.2	5012.4	5018.9
27.5°	4747.1	4767.0	4760.3	4773.8	4760.3	4773.8	4787.0	4793.5
30°	4462.1	4475.3	4468.6	4475.3	4468.6	4481.8	4488.5	4501.8
32.5°	4117.3	4137.3	4117.3	4130.5	4123.8	4123.8	4150.5	4137.3
35°	3706.2	3712.9	3719.4	3719.4	3706.2	3712.9	3726.1	3726.1
37.5°	3248.7	3281.8	3242.2	3261.9	3255.4	3255.4	3255.4	3275.3
40°	2771.5	2777.9	2764.7	2764.7	2764.7	2758.0	2784.7	2777.9
42.5°	2320.4	2327.2	2320.4	2300.7	2307.2	2307.2	2327.2	2300.7
45°	1882.9	1896.1	1889.6	1889.6	1876.4	1876.4	1882.9	1869.7
47.5°	1491.7	1504.9	1485.2	1491.7	1478.5	1491.7	1485.2	1498.4
50°	1133.7	1146.9	1140.4	1146.9	1146.9	1133.7	1153.6	1127.2
52.5°	848.7	855.2	848.7	842.0	835.5	835.5	848.7	842.0
55°	603.4	596.6	596.6	596.6	603.4	603.4	596.6	590.1
57.5°	404.4	404.4	397.9	397.9	404.4	391.2	397.9	391.2
60°	258.5	258.5	258.5	258.5	252.1	258.5	258.5	258.5
62.5°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
65°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
67.5°	66.3	73.1	73.1	73.1	66.3	66.3	66.3	66.3
70°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
72.5°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
75°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
77.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
80°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
82.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	6.7	6.7	6.7	6.7	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)