

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: P684697

Luminaire Tested: **LX6C90D010 EX6C909035 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684697
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: LX6C90D010 EX6C909035 6LCSWH
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

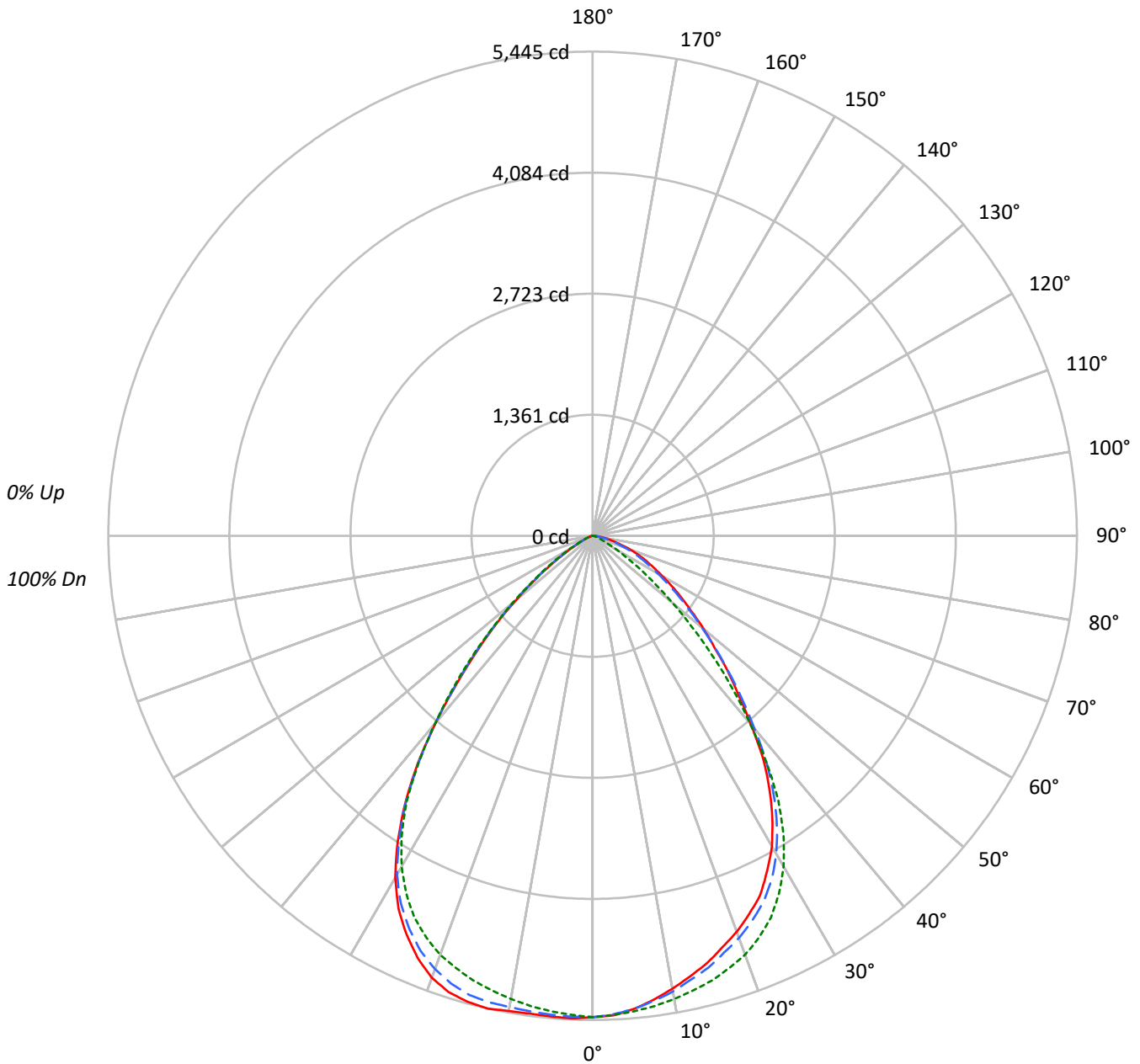
Lumens per Lamp: N/A
Luminaire Lumens: 9081.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
Input Voltage (V):
Input Current (A_{in}): 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
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	296736	296736	296736
5°	293907	295344	298590
10°	287848	294389	302043
15°	282346	293838	307947
20°	276489	292509	308523
25°	269677	286674	299328
30°	255330	271871	280974
35°	231868	243680	245869
40°	197892	196948	196010
45°	166227	147473	142922
50°	138836	99801	94786
55°	116842	61226	55616
60°	98918	32267	27947
65°	85651	16967	13555
70°	71246	10483	7325
75°	52635	6926	4173
80°	41293	4104	2084
85°	32959	4151	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.1	5.6
10°-20°	1460.6	16.1
20°-30°	2156.9	23.8
30°-40°	2222.8	24.5
40°-50°	1535.3	16.9
50°-60°	756.7	8.3
60°-70°	306.6	3.4
70°-80°	109.3	1.2
80°-90°	22.6	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°	4127.6	45.5
0°-40°	6350.5	69.9
0°-60°	8642.5	95.2
0°-90°	9081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9081.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5413	5413	5413	5413	5413	
5°	5341	5341	5367	5406	5426	504
15°	4975	5027	5177	5348	5426	1401
25°	4458	4543	4739	4877	4949	2038
35°	3465	3550	3641	3661	3674	2147
45°	2144	2157	1902	1876	1844	1657
55°	1222	1177	641	602	582	1105
65°	660	595	131	104	104	656
75°	248	209	33	20	20	279
85°	52	39	7	0	0	64
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°	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9
2.5°	5399.7	5380.2	5393.3	5367.0	5399.7	5367.0	5373.6	5380.2	5373.6	5380.2	5386.6
5°	5340.9	5321.2	5340.9	5308.2	5340.9	5321.2	5321.2	5327.9	5327.9	5334.3	5340.9
7.5°	5262.5	5242.8	5262.5	5229.8	5268.9	5249.5	5249.5	5262.5	5255.8	5262.5	5275.5
10°	5171.0	5144.7	5164.4	5144.7	5184.1	5157.8	5171.0	5171.0	5171.0	5190.5	5203.7
12.5°	5073.0	5046.6	5073.0	5040.3	5079.3	5059.9	5066.3	5086.0	5092.4	5105.6	5112.0
15°	4974.9	4942.2	4955.2	4935.5	4974.9	4955.2	4961.8	4987.9	4987.9	5007.6	5027.2
17.5°	4850.7	4824.4	4850.7	4824.4	4857.1	4844.1	4857.1	4876.8	4876.8	4896.4	4915.9
20°	4739.4	4713.3	4733.0	4713.3	4752.6	4733.0	4739.4	4765.7	4772.1	4791.7	4811.4
22.5°	4602.2	4582.5	4595.5	4576.1	4615.2	4602.2	4608.8	4634.9	4641.5	4654.5	4687.2
25°	4458.4	4419.0	4438.7	4425.7	4465.0	4445.3	4458.4	4484.4	4497.7	4517.1	4543.4
27.5°	4249.2	4229.5	4242.5	4242.5	4275.2	4255.8	4262.2	4288.5	4307.9	4327.6	4360.3
30°	4033.6	4000.9	4013.9	4020.3	4046.6	4033.6	4046.6	4072.7	4079.3	4105.4	4131.4
32.5°	3759.0	3745.7	3772.0	3759.0	3772.0	3772.0	3778.4	3798.1	3811.1	3824.4	3857.1
35°	3464.7	3438.7	3464.7	3451.7	3484.4	3464.7	3484.4	3504.1	3504.1	3530.1	3549.8
37.5°	3144.4	3111.7	3124.7	3124.7	3137.8	3131.4	3131.4	3164.1	3170.5	3190.1	3209.8
40°	2765.3	2752.1	2778.4	2771.7	2778.4	2778.4	2784.8	2804.4	2817.5	2824.1	2830.7
42.5°	2425.4	2431.8	2438.4	2438.4	2438.4	2438.4	2438.4	2464.4	2458.1	2477.7	2484.1
45°	2144.1	2118.1	2131.1	2124.7	2144.1	2124.7	2144.1	2163.8	2150.8	2170.4	2157.2
47.5°	1856.5	1856.5	1856.5	1850.1	1863.1	1856.5	1869.5	1876.2	1876.2	1876.2	1869.5
50°	1627.9	1608.2	1614.6	1614.6	1621.2	1614.6	1627.9	1634.3	1634.3	1621.2	1595.2
52.5°	1405.4	1399.0	1399.0	1412.0	1412.0	1405.4	1405.4	1405.4	1405.4	1386.0	1372.7
55°	1222.5	1209.5	1215.9	1215.9	1215.9	1215.9	1222.5	1215.9	1215.9	1196.2	1176.8
57.5°	1059.0	1046.0	1046.0	1046.0	1052.4	1046.0	1046.0	1046.0	1039.4	1019.7	993.6
60°	902.2	895.6	902.2	902.2	908.6	902.2	902.2	902.2	889.2	869.5	843.2
62.5°	771.4	771.4	771.4	777.8	777.8	771.4	771.4	764.8	758.4	732.1	706.0
65°	660.3	653.7	660.3	660.3	666.7	666.7	660.3	653.7	647.3	621.0	594.9
67.5°	549.2	542.5	549.2	549.2	555.6	549.2	549.2	549.2	529.5	516.5	490.2
70°	444.5	438.1	438.1	438.1	444.5	431.4	438.1	438.1	425.0	405.4	379.1
72.5°	340.0	340.0	340.0	340.0	340.0	340.0	333.3	333.3	320.3	300.7	287.6
75°	248.5	248.5	254.9	254.9	248.5	248.5	248.5	241.9	235.3	222.2	209.2
77.5°	183.1	183.1	183.1	183.1	176.5	176.5	176.5	169.9	163.5	156.8	143.8
80°	130.8	130.8	130.8	124.1	130.8	124.1	124.1	124.1	111.1	104.5	98.1
82.5°	91.4	85.1	85.1	85.1	85.1	85.1	85.1	78.4	78.4	72.0	65.4
85°	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	45.7	39.3	39.3
87.5°	26.1	32.7	32.7	32.7	32.7	32.7	32.7	26.1	26.1	26.1	19.7
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°	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9
2.5°	5386.6	5386.6	5399.7	5380.2	5412.9	5393.3	5386.6	5419.3	5399.7	5393.3	5406.3
5°	5340.9	5347.5	5353.9	5340.9	5373.6	5353.9	5353.9	5386.6	5373.6	5367.0	5386.6
7.5°	5282.2	5288.5	5301.6	5295.2	5321.2	5308.2	5314.8	5347.5	5334.3	5334.3	5353.9
10°	5210.1	5223.2	5236.4	5236.4	5268.9	5255.8	5255.8	5295.2	5282.2	5288.5	5314.8
12.5°	5125.1	5144.7	5164.4	5171.0	5203.7	5184.1	5190.5	5236.4	5229.8	5236.4	5262.5
15°	5033.6	5059.9	5079.3	5079.3	5118.7	5099.0	5118.7	5164.4	5151.4	5177.4	5210.1
17.5°	4929.1	4955.2	4981.3	4987.9	5027.2	5014.0	5040.3	5086.0	5086.0	5099.0	5138.3
20°	4831.1	4863.7	4876.8	4896.4	4935.5	4929.1	4942.2	4994.5	4994.5	5014.0	5053.3
22.5°	4700.3	4733.0	4759.0	4778.7	4811.4	4811.4	4831.1	4876.8	4876.8	4889.8	4929.1
25°	4556.5	4595.5	4615.2	4634.9	4667.6	4660.9	4680.6	4719.9	4726.3	4739.4	4778.7
27.5°	4373.3	4406.0	4432.3	4445.3	4491.1	4465.0	4484.4	4530.4	4523.8	4536.8	4569.5
30°	4144.7	4177.4	4203.4	4203.4	4242.5	4242.5	4262.2	4281.9	4281.9	4294.9	4321.2
32.5°	3876.5	3915.8	3915.8	3935.5	3961.6	3935.5	3961.6	3987.6	3974.6	3994.2	4013.9
35°	3569.2	3588.9	3595.5	3595.5	3615.2	3608.5	3601.9	3621.6	3608.5	3641.2	3660.9
37.5°	3196.8	3222.8	3209.8	3222.8	3216.2	3196.8	3196.8	3229.5	3203.2	3209.8	3229.5
40°	2837.1	2837.1	2830.7	2798.0	2804.4	2784.8	2778.4	2784.8	2758.7	2752.1	2778.4
42.5°	2464.4	2458.1	2438.4	2392.7	2399.1	2366.4	2340.3	2340.3	2327.3	2320.6	2327.3
45°	2131.1	2111.4	2078.7	2026.6	2013.3	1987.3	1934.9	1921.9	1902.2	1902.2	1908.9
47.5°	1823.8	1797.8	1745.4	1686.6	1653.9	1621.2	1568.9	1549.2	1516.5	1503.5	1516.5
50°	1568.9	1523.2	1457.8	1372.7	1340.0	1300.9	1248.6	1215.9	1183.2	1170.2	1163.5
52.5°	1333.6	1268.2	1202.8	1098.4	1072.1	1033.0	961.0	928.3	895.6	869.5	869.5
55°	1130.8	1072.1	980.6	882.5	843.2	804.1	732.1	686.4	653.7	640.6	627.6
57.5°	947.9	882.5	797.5	693.0	653.7	614.6	542.5	496.8	464.1	444.5	431.4
60°	797.5	725.7	640.6	549.2	503.5	464.1	392.3	346.4	313.7	294.3	281.0
62.5°	653.7	594.9	509.9	425.0	385.7	346.4	287.6	241.9	209.2	196.2	176.5
65°	549.2	490.2	411.8	340.0	307.3	268.0	215.8	176.5	150.4	130.8	117.8
67.5°	444.5	398.7	333.3	268.0	235.3	209.2	163.5	130.8	104.5	91.4	85.1
70°	353.0	307.3	254.9	202.6	183.1	156.8	124.1	91.4	78.4	65.4	58.8
72.5°	261.6	228.9	189.5	150.4	130.8	117.8	85.1	72.0	52.4	45.7	39.3
75°	189.5	163.5	137.2	104.5	91.4	85.1	65.4	45.7	39.3	32.7	26.1
77.5°	130.8	117.8	91.4	72.0	65.4	58.8	45.7	32.7	26.1	19.7	19.7
80°	85.1	72.0	58.8	45.7	45.7	39.3	26.1	19.7	19.7	13.0	13.0
82.5°	52.4	45.7	39.3	32.7	26.1	26.1	19.7	13.0	13.0	6.6	6.6
85°	32.7	26.1	19.7	19.7	13.0	13.0	13.0	6.6	6.6	6.6	6.6
87.5°	13.0	13.0	13.0	6.6	6.6	6.6	6.6	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°	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9
2.5°	5406.3	5406.3	5419.3	5399.7	5412.9	5412.9	5426.0	5399.7	5412.9	5419.3	5432.4
5°	5380.2	5386.6	5399.7	5393.3	5399.7	5399.7	5412.9	5380.2	5406.3	5406.3	5426.0
7.5°	5353.9	5353.9	5367.0	5360.6	5373.6	5380.2	5393.3	5367.0	5393.3	5393.3	5412.9
10°	5321.2	5321.2	5340.9	5334.3	5353.9	5360.6	5380.2	5353.9	5380.2	5386.6	5406.3
12.5°	5275.5	5282.2	5301.6	5301.6	5321.2	5334.3	5353.9	5340.9	5373.6	5380.2	5406.3
15°	5223.2	5236.4	5262.5	5255.8	5275.5	5295.2	5321.2	5301.6	5347.5	5360.6	5386.6
17.5°	5157.8	5171.0	5190.5	5190.5	5210.1	5223.2	5255.8	5242.8	5282.2	5288.5	5321.2
20°	5059.9	5079.3	5105.6	5099.0	5118.7	5131.7	5157.8	5144.7	5184.1	5197.1	5229.8
22.5°	4942.2	4955.2	4974.9	4974.9	4994.5	5007.6	5033.6	5014.0	5053.3	5059.9	5086.0
25°	4785.3	4798.4	4811.4	4818.0	4837.4	4844.1	4857.1	4844.1	4876.8	4883.4	4915.9
27.5°	4582.5	4589.2	4608.8	4608.8	4621.9	4628.2	4647.9	4621.9	4667.6	4667.6	4687.2
30°	4340.6	4334.2	4360.3	4347.3	4360.3	4360.3	4380.0	4366.9	4399.6	4386.6	4406.0
32.5°	4020.3	4033.6	4033.6	4020.3	4046.6	4040.0	4040.0	4026.9	4046.6	4053.0	4066.0
35°	3647.9	3667.3	3667.3	3673.9	3680.6	3660.9	3667.3	3628.2	3660.9	3667.3	3673.9
37.5°	3242.5	3222.8	3235.9	3216.2	3248.9	3209.8	3209.8	3183.7	3209.8	3209.8	3216.2
40°	2778.4	2771.7	2784.8	2771.7	2765.3	2758.7	2745.7	2726.0	2752.1	2739.0	2758.7
42.5°	2340.3	2333.7	2333.7	2320.6	2314.2	2314.2	2301.2	2287.9	2281.5	2281.5	2314.2
45°	1889.2	1902.2	1889.2	1882.8	1895.8	1882.8	1889.2	1863.1	1876.2	1863.1	1876.2
47.5°	1510.1	1516.5	1503.5	1490.5	1510.1	1490.5	1490.5	1470.8	1497.1	1497.1	1483.8
50°	1170.2	1163.5	1150.5	1163.5	1157.1	1157.1	1157.1	1137.5	1150.5	1130.8	1144.1
52.5°	862.9	856.5	856.5	849.8	856.5	849.8	849.8	843.2	843.2	836.8	843.2
55°	627.6	621.0	607.9	607.9	607.9	614.6	607.9	601.5	601.5	594.9	601.5
57.5°	425.0	411.8	411.8	411.8	411.8	405.4	405.4	398.7	405.4	398.7	405.4
60°	274.6	274.6	261.6	261.6	261.6	261.6	261.6	254.9	261.6	261.6	261.6
62.5°	169.9	169.9	163.5	156.8	163.5	156.8	156.8	156.8	163.5	156.8	163.5
65°	111.1	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
67.5°	78.4	72.0	72.0	72.0	72.0	72.0	72.0	65.4	72.0	72.0	72.0
70°	52.4	52.4	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
72.5°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
75°	26.1	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
77.5°	19.7	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
80°	13.0	13.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
85°	6.6	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	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
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: P684697

CATALOG NUMBER: LX6C90D010 EX6C909035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9	5412.9
2.5°	5412.9	5419.3	5406.3	5412.9	5399.7	5412.9	5419.3	5432.4
5°	5399.7	5406.3	5393.3	5406.3	5393.3	5406.3	5412.9	5426.0
7.5°	5386.6	5399.7	5386.6	5399.7	5386.6	5399.7	5406.3	5419.3
10°	5386.6	5406.3	5393.3	5412.9	5393.3	5406.3	5419.3	5426.0
12.5°	5386.6	5406.3	5399.7	5412.9	5406.3	5419.3	5432.4	5445.4
15°	5373.6	5393.3	5380.2	5399.7	5393.3	5399.7	5426.0	5426.0
17.5°	5301.6	5321.2	5321.2	5334.3	5334.3	5353.9	5367.0	5380.2
20°	5210.1	5229.8	5223.2	5242.8	5242.8	5262.5	5275.5	5288.5
22.5°	5073.0	5099.0	5092.4	5112.0	5105.6	5118.7	5144.7	5138.3
25°	4896.4	4929.1	4922.5	4935.5	4929.1	4929.1	4942.2	4948.6
27.5°	4680.6	4700.3	4693.6	4706.9	4693.6	4706.9	4719.9	4726.3
30°	4399.6	4412.7	4406.0	4412.7	4406.0	4419.0	4425.7	4438.7
32.5°	4059.6	4079.3	4059.6	4072.7	4066.0	4066.0	4092.3	4079.3
35°	3654.3	3660.9	3667.3	3667.3	3654.3	3660.9	3673.9	3673.9
37.5°	3203.2	3235.9	3196.8	3216.2	3209.8	3209.8	3209.8	3229.5
40°	2732.6	2739.0	2726.0	2726.0	2726.0	2719.4	2745.7	2739.0
42.5°	2287.9	2294.6	2287.9	2268.5	2274.9	2274.9	2294.6	2268.5
45°	1856.5	1869.5	1863.1	1863.1	1850.1	1850.1	1856.5	1843.5
47.5°	1470.8	1483.8	1464.4	1470.8	1457.8	1470.8	1464.4	1477.4
50°	1117.8	1130.8	1124.4	1130.8	1130.8	1117.8	1137.5	1111.4
52.5°	836.8	843.2	836.8	830.2	823.8	823.8	836.8	830.2
55°	594.9	588.3	588.3	588.3	594.9	594.9	588.3	581.9
57.5°	398.7	398.7	392.3	392.3	398.7	385.7	392.3	385.7
60°	254.9	254.9	254.9	254.9	248.5	254.9	254.9	254.9
62.5°	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8
65°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
67.5°	65.4	72.0	72.0	72.0	65.4	65.4	65.4	65.4
70°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
72.5°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
75°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
77.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
80°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	6.6	6.6	6.6	6.6	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)