

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: P684683

Luminaire Tested: **LX6C90D010 EX6C909027 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684683
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 EX6C909027 6LCSWH
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

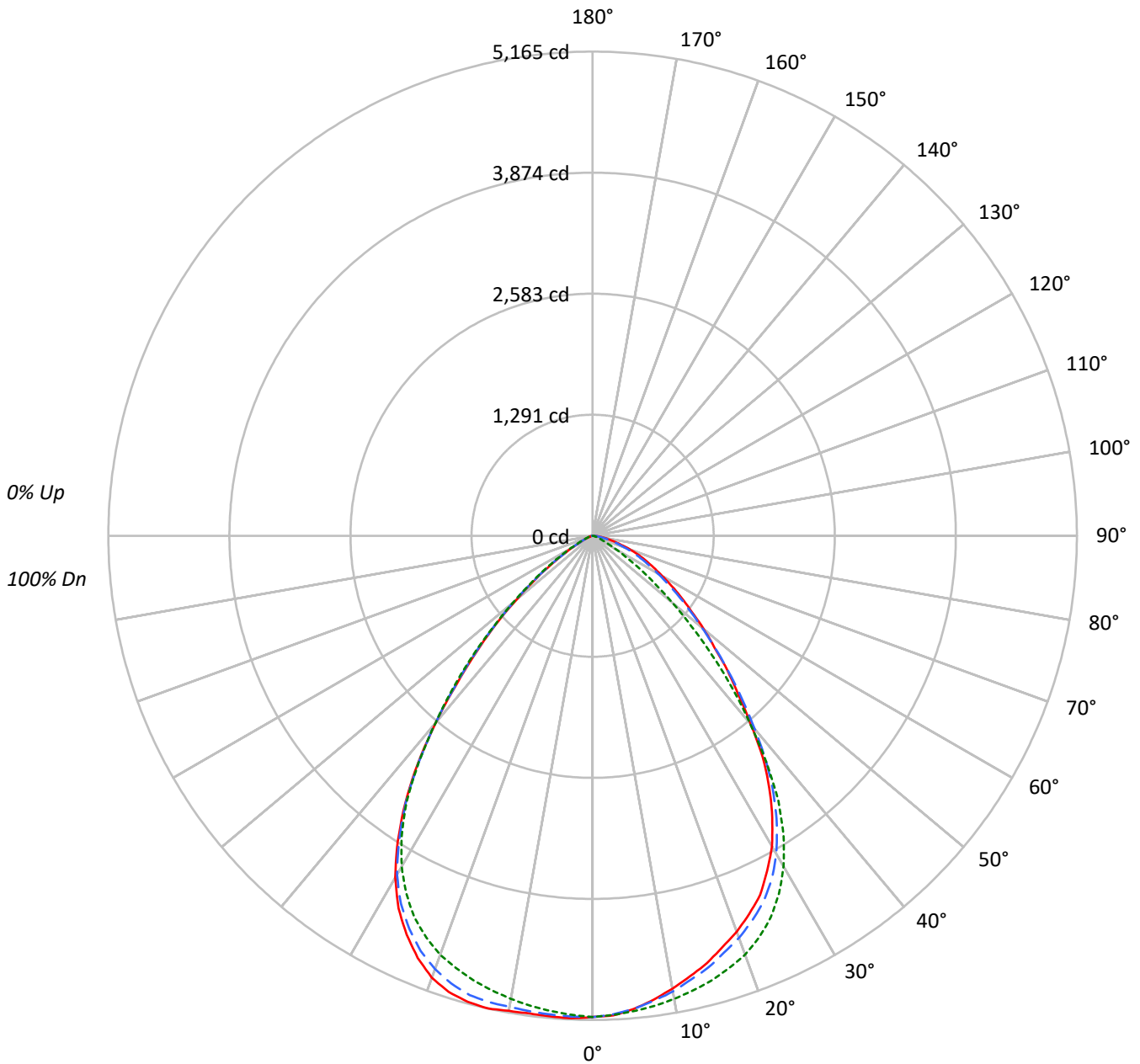
Lumens per Lamp: N/A
Luminaire Lumens: 8613.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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°	281447	281447	281447
5°	278763	280123	283199
10°	273013	279220	286473
15°	267794	278696	292073
20°	262237	277434	292625
25°	255777	271897	283897
30°	242170	257862	266497
35°	219923	231126	233200
40°	187695	186793	185913
45°	157660	139875	135557
50°	131680	94649	89899
55°	110820	58072	52748
60°	93819	30601	26511
65°	81241	16085	12855
70°	67576	9938	6956
75°	49923	6566	3961
80°	39146	3915	1989
85°	31261	3963	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.8	5.6
10°-20°	1385.4	16.1
20°-30°	2045.7	23.8
30°-40°	2108.3	24.5
40°-50°	1456.2	16.9
50°-60°	717.7	8.3
60°-70°	290.8	3.4
70°-80°	103.7	1.2
80°-90°	21.4	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°	3914.9	45.5
0°-40°	6023.2	69.9
0°-60°	8197.1	95.2
0°-90°	8613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8613.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5134	5134	5134	5134	5134	
5°	5066	5066	5090	5128	5146	478
15°	4718	4768	4911	5072	5146	1328
25°	4229	4309	4495	4625	4694	1933
35°	3286	3367	3454	3472	3485	2036
45°	2034	2046	1804	1780	1748	1572
55°	1160	1116	608	570	552	1048
65°	626	564	124	99	99	622
75°	236	198	31	19	19	265
85°	50	37	6	0	0	61
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°	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0
2.5°	5121.4	5103.0	5115.3	5090.4	5121.4	5090.4	5096.7	5103.0	5096.7	5103.0	5109.0
5°	5065.7	5047.0	5065.7	5034.6	5065.7	5047.0	5047.0	5053.3	5053.3	5059.4	5065.7
7.5°	4991.3	4972.6	4991.3	4960.3	4997.3	4978.9	4978.9	4991.3	4985.0	4991.3	5003.6
10°	4904.5	4879.6	4898.2	4879.6	4916.9	4892.0	4904.5	4904.5	4904.5	4923.0	4935.6
12.5°	4811.5	4786.6	4811.5	4780.5	4817.6	4799.2	4805.2	4823.9	4829.9	4842.5	4848.6
15°	4718.5	4687.5	4699.8	4681.2	4718.5	4699.8	4706.1	4730.8	4730.8	4749.5	4768.1
17.5°	4600.7	4575.8	4600.7	4575.8	4606.8	4594.4	4606.8	4625.4	4625.4	4644.1	4662.5
20°	4495.1	4470.4	4489.0	4470.4	4507.7	4489.0	4495.1	4520.1	4526.1	4544.8	4563.4
22.5°	4365.0	4346.4	4358.7	4340.3	4377.4	4365.0	4371.3	4396.0	4402.3	4414.7	4445.7
25°	4228.6	4191.3	4210.0	4197.6	4234.9	4216.3	4228.6	4253.3	4265.9	4284.3	4309.3
27.5°	4030.2	4011.5	4023.9	4023.9	4054.9	4036.5	4042.5	4067.5	4085.9	4104.6	4135.6
30°	3825.7	3794.7	3807.1	3813.1	3838.1	3825.7	3838.1	3862.8	3869.1	3893.8	3918.5
32.5°	3565.3	3552.7	3577.6	3565.3	3577.6	3577.6	3583.7	3602.3	3614.7	3627.3	3658.3
35°	3286.2	3261.5	3286.2	3273.8	3304.8	3286.2	3304.8	3323.5	3323.5	3348.2	3366.8
37.5°	2982.4	2951.4	2963.7	2963.7	2976.1	2970.0	2970.0	3001.0	3007.1	3025.7	3044.4
40°	2622.8	2610.2	2635.2	2628.9	2635.2	2635.2	2641.2	2659.9	2672.3	2678.6	2684.8
42.5°	2300.4	2306.4	2312.7	2312.7	2312.7	2312.7	2312.7	2337.4	2331.4	2350.0	2356.1
45°	2033.6	2008.9	2021.3	2015.2	2033.6	2015.2	2033.6	2052.3	2039.9	2058.6	2046.0
47.5°	1760.8	1760.8	1760.8	1754.8	1767.1	1760.8	1773.2	1779.5	1779.5	1779.5	1773.2
50°	1544.0	1525.3	1531.4	1531.4	1537.7	1531.4	1544.0	1550.1	1550.1	1537.7	1513.0
52.5°	1333.0	1326.9	1326.9	1339.3	1339.3	1333.0	1333.0	1333.0	1333.0	1314.6	1302.0
55°	1159.5	1147.2	1153.2	1153.2	1153.2	1153.2	1159.5	1153.2	1153.2	1134.6	1116.1
57.5°	1004.5	992.1	992.1	992.1	998.2	992.1	992.1	992.1	985.8	967.2	942.4
60°	855.7	849.4	855.7	855.7	861.8	855.7	855.7	855.7	843.3	824.7	799.7
62.5°	731.7	731.7	731.7	737.7	737.7	731.7	731.7	725.4	719.3	694.4	669.6
65°	626.3	620.0	626.3	626.3	632.3	632.3	626.3	620.0	613.9	589.0	564.2
67.5°	520.9	514.6	520.9	520.9	526.9	520.9	520.9	520.9	502.2	489.9	464.9
70°	421.6	415.5	415.5	415.5	421.6	409.2	415.5	415.5	403.1	384.5	359.5
72.5°	322.5	322.5	322.5	322.5	322.5	322.5	316.2	316.2	303.8	285.2	272.8
75°	235.7	235.7	241.8	241.8	235.7	235.7	235.7	229.4	223.1	210.8	198.4
77.5°	173.7	173.7	173.7	173.7	167.4	167.4	167.4	161.1	155.1	148.8	136.4
80°	124.0	124.0	124.0	117.7	124.0	117.7	117.7	117.7	105.4	99.1	93.0
82.5°	86.7	80.7	80.7	80.7	80.7	80.7	80.7	74.4	74.4	68.3	62.0
85°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	43.4	37.3	37.3
87.5°	24.7	31.0	31.0	31.0	31.0	31.0	31.0	24.7	24.7	24.7	18.7
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°	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0
2.5°	5109.0	5109.0	5121.4	5103.0	5134.0	5115.3	5109.0	5140.0	5121.4	5115.3	5127.7
5°	5065.7	5072.0	5078.0	5065.7	5096.7	5078.0	5078.0	5109.0	5096.7	5090.4	5109.0
7.5°	5009.9	5016.0	5028.4	5022.3	5047.0	5034.6	5040.9	5072.0	5059.4	5059.4	5078.0
10°	4941.6	4954.0	4966.6	4966.6	4997.3	4985.0	4985.0	5022.3	5009.9	5016.0	5040.9
12.5°	4860.9	4879.6	4898.2	4904.5	4935.6	4916.9	4923.0	4966.6	4960.3	4966.6	4991.3
15°	4774.2	4799.2	4817.6	4817.6	4854.9	4836.2	4854.9	4898.2	4885.9	4910.6	4941.6
17.5°	4675.1	4699.8	4724.5	4730.8	4768.1	4755.6	4780.5	4823.9	4823.9	4836.2	4873.5
20°	4582.1	4613.1	4625.4	4644.1	4681.2	4675.1	4687.5	4737.1	4737.1	4755.6	4792.9
22.5°	4458.0	4489.0	4513.8	4532.4	4563.4	4563.4	4582.1	4625.4	4625.4	4637.8	4675.1
25°	4321.6	4358.7	4377.4	4396.0	4427.0	4420.7	4439.4	4476.7	4482.8	4495.1	4532.4
27.5°	4147.9	4178.9	4203.9	4216.3	4259.6	4234.9	4253.3	4296.9	4290.6	4303.0	4334.0
30°	3931.1	3962.1	3986.8	3986.8	4023.9	4023.9	4042.5	4061.2	4061.2	4073.6	4098.5
32.5°	3676.7	3714.0	3714.0	3732.7	3757.4	3732.7	3757.4	3782.1	3769.7	3788.4	3807.1
35°	3385.3	3403.9	3410.2	3410.2	3428.9	3422.6	3416.3	3434.9	3422.6	3453.6	3472.2
37.5°	3032.0	3056.7	3044.4	3056.7	3050.4	3032.0	3032.0	3063.0	3038.1	3044.4	3063.0
40°	2690.9	2690.9	2684.8	2653.8	2659.9	2641.2	2635.2	2641.2	2616.5	2610.2	2635.2
42.5°	2337.4	2331.4	2312.7	2269.4	2275.4	2244.4	2219.7	2219.7	2207.3	2201.0	2207.3
45°	2021.3	2002.6	1971.6	1922.2	1909.6	1884.9	1835.2	1822.9	1804.2	1804.2	1810.5
47.5°	1729.8	1705.1	1655.4	1599.7	1568.7	1537.7	1488.0	1469.4	1438.4	1426.0	1438.4
50°	1488.0	1444.7	1382.6	1302.0	1271.0	1233.9	1184.2	1153.2	1122.2	1109.8	1103.6
52.5°	1264.9	1202.9	1140.9	1041.8	1016.8	979.7	911.4	880.4	849.4	824.7	824.7
55°	1072.5	1016.8	930.1	837.0	799.7	762.7	694.4	651.0	620.0	607.6	595.3
57.5°	899.1	837.0	756.4	657.3	620.0	582.9	514.6	471.2	440.2	421.6	409.2
60°	756.4	688.3	607.6	520.9	477.5	440.2	372.1	328.5	297.5	279.1	266.5
62.5°	620.0	564.2	483.6	403.1	365.8	328.5	272.8	229.4	198.4	186.1	167.4
65°	520.9	464.9	390.5	322.5	291.5	254.1	204.7	167.4	142.7	124.0	111.7
67.5°	421.6	378.2	316.2	254.1	223.1	198.4	155.1	124.0	99.1	86.7	80.7
70°	334.8	291.5	241.8	192.1	173.7	148.8	117.7	86.7	74.4	62.0	55.7
72.5°	248.1	217.1	179.8	142.7	124.0	111.7	80.7	68.3	49.7	43.4	37.3
75°	179.8	155.1	130.1	99.1	86.7	80.7	62.0	43.4	37.3	31.0	24.7
77.5°	124.0	111.7	86.7	68.3	62.0	55.7	43.4	31.0	24.7	18.7	18.7
80°	80.7	68.3	55.7	43.4	43.4	37.3	24.7	18.7	18.7	12.4	12.4
82.5°	49.7	43.4	37.3	31.0	24.7	24.7	18.7	12.4	12.4	6.3	6.3
85°	31.0	24.7	18.7	18.7	12.4	12.4	12.4	6.3	6.3	6.3	6.3
87.5°	12.4	12.4	12.4	6.3	6.3	6.3	6.3	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°	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0
2.5°	5127.7	5127.7	5140.0	5121.4	5134.0	5134.0	5146.3	5121.4	5134.0	5140.0	5152.4
5°	5103.0	5109.0	5121.4	5115.3	5121.4	5121.4	5134.0	5103.0	5127.7	5127.7	5146.3
7.5°	5078.0	5078.0	5090.4	5084.3	5096.7	5103.0	5115.3	5090.4	5115.3	5115.3	5134.0
10°	5047.0	5047.0	5065.7	5059.4	5078.0	5084.3	5103.0	5078.0	5103.0	5109.0	5127.7
12.5°	5003.6	5009.9	5028.4	5028.4	5047.0	5059.4	5078.0	5065.7	5096.7	5103.0	5127.7
15°	4954.0	4966.6	4991.3	4985.0	5003.6	5022.3	5047.0	5028.4	5072.0	5084.3	5109.0
17.5°	4892.0	4904.5	4923.0	4923.0	4941.6	4954.0	4985.0	4972.6	5009.9	5016.0	5047.0
20°	4799.2	4817.6	4842.5	4836.2	4854.9	4867.2	4892.0	4879.6	4916.9	4929.3	4960.3
22.5°	4687.5	4699.8	4718.5	4718.5	4737.1	4749.5	4774.2	4755.6	4792.9	4799.2	4823.9
25°	4538.7	4551.1	4563.4	4569.7	4588.1	4594.4	4606.8	4594.4	4625.4	4631.7	4662.5
27.5°	4346.4	4352.6	4371.3	4371.3	4383.7	4389.7	4408.4	4383.7	4427.0	4427.0	4445.7
30°	4116.9	4110.9	4135.6	4123.2	4135.6	4135.6	4154.2	4141.9	4172.9	4160.5	4178.9
32.5°	3813.1	3825.7	3825.7	3813.1	3838.1	3831.8	3831.8	3819.4	3838.1	3844.1	3856.5
35°	3459.9	3478.3	3478.3	3484.6	3490.9	3472.2	3478.3	3441.2	3472.2	3478.3	3484.6
37.5°	3075.4	3056.7	3069.1	3050.4	3081.5	3044.4	3044.4	3019.7	3044.4	3044.4	3050.4
40°	2635.2	2628.9	2641.2	2628.9	2622.8	2616.5	2604.2	2585.5	2610.2	2597.9	2616.5
42.5°	2219.7	2213.4	2213.4	2201.0	2195.0	2195.0	2182.6	2170.0	2164.0	2164.0	2195.0
45°	1791.8	1804.2	1791.8	1785.8	1798.1	1785.8	1791.8	1767.1	1779.5	1767.1	1779.5
47.5°	1432.3	1438.4	1426.0	1413.7	1432.3	1413.7	1413.7	1395.0	1420.0	1420.0	1407.4
50°	1109.8	1103.6	1091.2	1103.6	1097.5	1097.5	1097.5	1078.8	1091.2	1072.5	1085.1
52.5°	818.4	812.3	812.3	806.0	812.3	806.0	806.0	799.7	799.7	793.7	799.7
55°	595.3	589.0	576.6	576.6	576.6	582.9	576.6	570.5	570.5	564.2	570.5
57.5°	403.1	390.5	390.5	390.5	390.5	384.5	384.5	378.2	384.5	378.2	384.5
60°	260.4	260.4	248.1	248.1	248.1	248.1	248.1	241.8	248.1	248.1	248.1
62.5°	161.1	161.1	155.1	148.8	155.1	148.8	148.8	148.8	155.1	148.8	155.1
65°	105.4	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
67.5°	74.4	68.3	68.3	68.3	68.3	68.3	68.3	62.0	68.3	68.3	68.3
70°	49.7	49.7	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
72.5°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
75°	24.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
77.5°	18.7	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
80°	12.4	12.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
82.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
85°	6.3	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	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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: P684683

CATALOG NUMBER: LX6C90D010 EX6C909027 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0
2.5°	5134.0	5140.0	5127.7	5134.0	5121.4	5134.0	5140.0	5152.4
5°	5121.4	5127.7	5115.3	5127.7	5115.3	5127.7	5134.0	5146.3
7.5°	5109.0	5121.4	5109.0	5121.4	5109.0	5121.4	5127.7	5140.0
10°	5109.0	5127.7	5115.3	5134.0	5115.3	5127.7	5140.0	5146.3
12.5°	5109.0	5127.7	5121.4	5134.0	5127.7	5140.0	5152.4	5164.7
15°	5096.7	5115.3	5103.0	5121.4	5115.3	5121.4	5146.3	5146.3
17.5°	5028.4	5047.0	5047.0	5059.4	5059.4	5078.0	5090.4	5103.0
20°	4941.6	4960.3	4954.0	4972.6	4972.6	4991.3	5003.6	5016.0
22.5°	4811.5	4836.2	4829.9	4848.6	4842.5	4854.9	4879.6	4873.5
25°	4644.1	4675.1	4668.8	4681.2	4675.1	4675.1	4687.5	4693.5
27.5°	4439.4	4458.0	4451.7	4464.3	4451.7	4464.3	4476.7	4482.8
30°	4172.9	4185.2	4178.9	4185.2	4178.9	4191.3	4197.6	4210.0
32.5°	3850.4	3869.1	3850.4	3862.8	3856.5	3856.5	3881.4	3869.1
35°	3465.9	3472.2	3478.3	3478.3	3465.9	3472.2	3484.6	3484.6
37.5°	3038.1	3069.1	3032.0	3050.4	3044.4	3044.4	3044.4	3063.0
40°	2591.8	2597.9	2585.5	2585.5	2585.5	2579.2	2604.2	2597.9
42.5°	2170.0	2176.3	2170.0	2151.6	2157.7	2157.7	2176.3	2151.6
45°	1760.8	1773.2	1767.1	1767.1	1754.8	1754.8	1760.8	1748.5
47.5°	1395.0	1407.4	1388.9	1395.0	1382.6	1395.0	1388.9	1401.3
50°	1060.2	1072.5	1066.5	1072.5	1072.5	1060.2	1078.8	1054.1
52.5°	793.7	799.7	793.7	787.4	781.3	781.3	793.7	787.4
55°	564.2	558.0	558.0	558.0	564.2	564.2	558.0	551.9
57.5°	378.2	378.2	372.1	372.1	378.2	365.8	372.1	365.8
60°	241.8	241.8	241.8	241.8	235.7	241.8	241.8	241.8
62.5°	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8
65°	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
67.5°	62.0	68.3	68.3	68.3	62.0	62.0	62.0	62.0
70°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
72.5°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
75°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
77.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
80°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
82.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	6.3	6.3	6.3	6.3	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)