

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: P685270

Luminaire Tested: **LX6C90D010 EX6909030 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685270
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 EX6909030 6LCSWLI
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

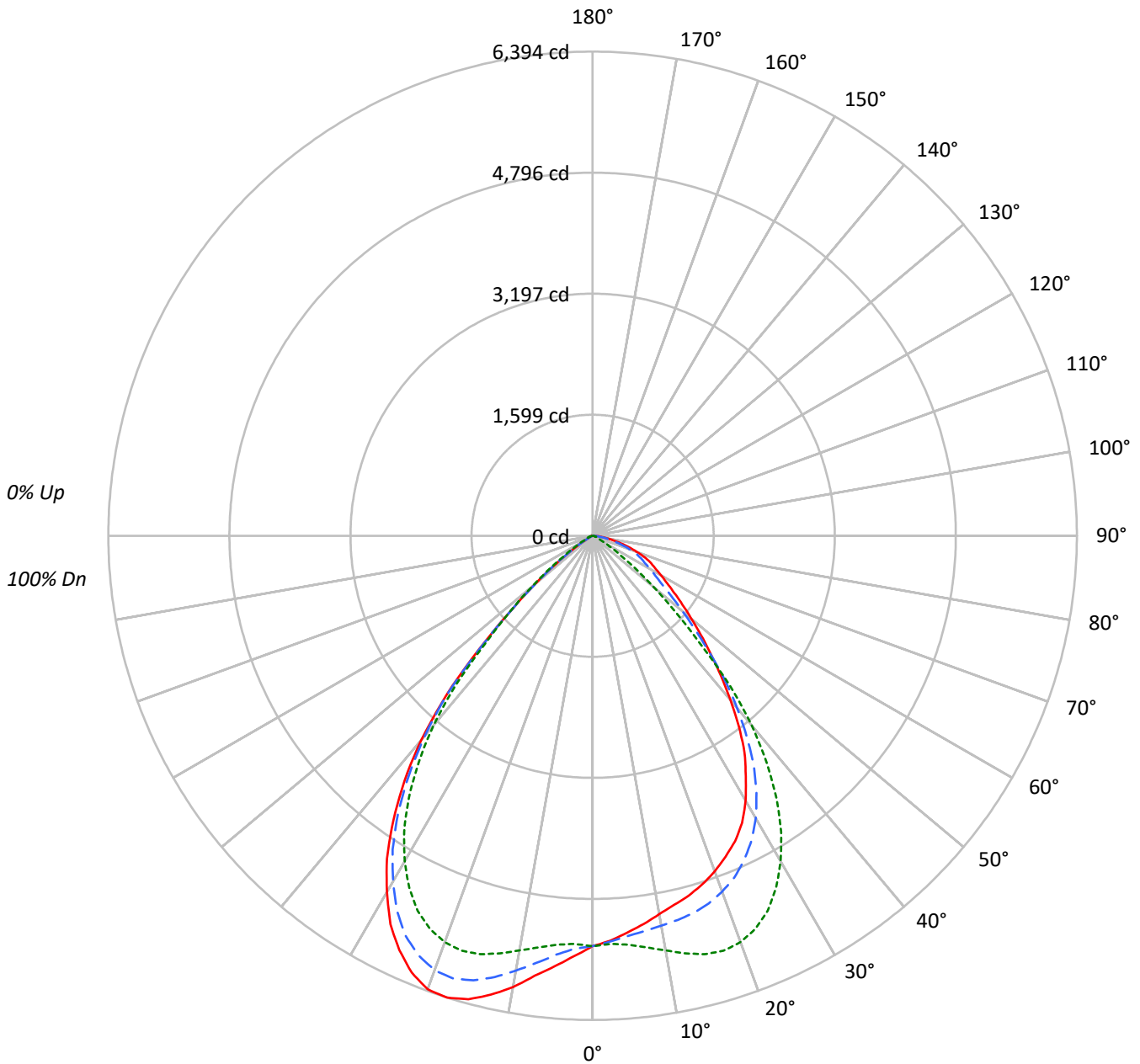
Lumens per Lamp: N/A
Luminaire Lumens: 9907.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
Input Voltage (V):
Input Current (A_{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									
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°	297120	297120	297120
5°	289417	298255	313933
10°	282376	309491	336895
15°	279077	324656	359650
20°	275071	333118	371802
25°	269229	330654	365132
30°	255843	314226	343736
35°	234063	283305	306882
40°	202465	233974	251772
45°	170731	153466	164692
50°	144950	88824	83528
55°	125788	42589	32180
60°	113620	19878	7938
65°	110219	11415	2672
70°	98831	9152	2500
75°	81229	6608	1123
80°	60488	3252	0
85°	52206	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.5	5.3
10°-20°	1595.5	16.1
20°-30°	2437.7	24.6
30°-40°	2549.7	25.7
40°-50°	1654.0	16.7
50°-60°	656.7	6.6
60°-70°	311.5	3.1
70°-80°	148.2	1.5
80°-90°	30.2	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°	4556.7	46.0
0°-40°	7106.4	71.7
0°-60°	9417.1	95.1
0°-90°	9907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9907.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5420	5420	5420	5420	5420	
5°	5259	5306	5420	5555	5705	497
15°	4917	5156	5720	6078	6337	1386
25°	4451	4731	5466	5834	6036	2038
35°	3498	3710	4233	4482	4586	2163
45°	2202	2181	1980	2098	2124	1714
55°	1316	1119	446	347	337	1193
65°	850	705	88	21	21	830
75°	384	311	31	10	5	414
85°	83	52	0	0	0	97
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°	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9
2.5°	5352.5	5362.9	5306.0	5290.4	5331.9	5347.3	5352.5	5337.0	5342.2	5362.9	5362.9
5°	5259.3	5269.6	5217.8	5202.2	5243.7	5254.2	5269.6	5264.5	5280.1	5311.1	5306.0
7.5°	5171.2	5186.8	5129.7	5109.1	5160.9	5186.8	5197.1	5197.1	5217.8	5259.3	5264.5
10°	5072.7	5093.5	5041.7	5031.2	5088.3	5114.2	5119.4	5129.7	5160.9	5217.8	5228.1
12.5°	4989.9	5010.6	4974.3	4958.8	5020.9	5046.8	5057.1	5077.9	5114.2	5186.8	5197.1
15°	4917.3	4932.9	4891.4	4881.0	4943.2	4974.3	4979.4	5010.6	5057.1	5140.1	5155.6
17.5°	4824.0	4834.3	4803.3	4793.0	4855.1	4886.1	4891.4	4927.6	4984.7	5067.6	5093.5
20°	4715.1	4725.6	4694.5	4684.2	4746.3	4782.5	4787.8	4818.9	4886.1	4974.3	5000.2
22.5°	4585.6	4606.5	4570.2	4559.7	4622.0	4653.0	4668.6	4694.5	4761.9	4849.9	4886.1
25°	4451.0	4451.0	4425.1	4419.9	4476.9	4513.2	4507.9	4544.1	4611.5	4699.7	4730.7
27.5°	4274.8	4269.5	4243.6	4238.6	4300.7	4331.9	4321.3	4357.8	4419.9	4507.9	4539.1
30°	4041.7	4052.0	4015.8	4005.3	4057.3	4109.1	4103.8	4140.0	4202.1	4285.1	4305.9
32.5°	3761.8	3772.1	3767.1	3751.5	3798.0	3823.9	3839.5	3865.4	3917.2	4005.3	4026.1
35°	3497.5	3482.0	3461.3	3461.3	3507.9	3549.3	3533.8	3564.9	3616.7	3704.8	3710.0
37.5°	3171.1	3165.9	3155.6	3145.2	3197.0	3207.4	3212.6	3233.3	3280.0	3352.4	3342.1
40°	2829.2	2834.2	2829.2	2808.3	2839.5	2881.0	2875.7	2886.2	2927.5	2979.3	2963.9
42.5°	2507.8	2507.8	2507.8	2487.2	2523.4	2544.2	2554.6	2549.3	2559.6	2606.4	2585.5
45°	2202.2	2207.3	2202.2	2197.0	2202.2	2212.6	2202.2	2197.0	2197.0	2212.6	2181.4
47.5°	1938.0	1938.0	1922.4	1906.8	1922.4	1927.5	1912.1	1896.5	1891.2	1886.2	1834.4
50°	1699.6	1694.3	1689.3	1663.4	1678.8	1684.0	1663.4	1652.9	1632.2	1606.3	1544.2
52.5°	1492.4	1487.1	1481.9	1456.0	1466.5	1471.5	1450.9	1430.1	1404.2	1383.5	1305.8
55°	1316.1	1310.9	1310.9	1295.5	1285.0	1295.5	1274.6	1259.1	1222.8	1196.9	1119.2
57.5°	1165.8	1165.8	1155.5	1139.9	1145.1	1145.1	1124.5	1103.7	1072.5	1041.5	979.4
60°	1036.3	1036.3	1036.3	1020.7	1020.7	1020.7	1010.4	989.7	963.8	932.7	870.5
62.5°	932.7	932.7	927.4	912.0	917.1	917.1	906.8	886.1	860.2	839.4	777.3
65°	849.7	849.7	849.7	834.3	834.3	839.4	829.1	808.4	787.6	761.7	704.6
67.5°	746.1	741.0	741.0	730.5	735.8	741.0	730.5	715.1	689.2	673.6	621.8
70°	616.6	621.8	626.9	611.5	616.6	616.6	611.5	595.9	580.4	564.8	518.2
72.5°	502.7	502.7	497.4	492.3	492.3	497.4	487.1	471.5	461.2	450.8	414.4
75°	383.5	378.2	383.5	373.1	373.1	373.1	362.6	357.6	352.3	336.7	310.8
77.5°	279.9	274.6	274.6	264.3	269.5	269.5	264.3	254.0	243.4	238.4	217.5
80°	191.6	191.6	191.6	186.6	186.6	181.3	181.3	176.2	165.7	160.7	150.3
82.5°	129.5	129.5	129.5	124.4	124.4	124.4	119.2	113.9	108.9	103.6	93.3
85°	83.0	83.0	83.0	77.7	77.7	77.7	72.4	72.4	67.4	62.1	51.8
87.5°	46.5	46.5	46.5	41.5	41.5	41.5	41.5	41.5	36.2	31.2	25.9
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°	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9
2.5°	5399.1	5326.6	5373.2	5373.2	5357.8	5399.1	5425.2	5445.8	5440.6	5394.0	5388.8
5°	5357.8	5295.5	5347.3	5352.5	5337.0	5394.0	5430.2	5456.2	5461.4	5419.9	5425.2
7.5°	5326.6	5274.8	5342.2	5362.9	5357.8	5409.6	5451.1	5492.4	5513.2	5482.1	5487.3
10°	5311.1	5269.6	5342.2	5373.2	5378.4	5435.5	5497.6	5554.7	5580.6	5559.8	5575.3
12.5°	5290.4	5264.5	5347.3	5394.0	5414.7	5471.7	5549.4	5616.8	5658.3	5648.0	5678.9
15°	5269.6	5248.9	5347.3	5414.7	5440.6	5492.4	5580.6	5678.9	5725.7	5720.4	5761.9
17.5°	5217.8	5212.7	5316.3	5388.8	5425.2	5487.3	5570.1	5689.3	5736.0	5746.3	5798.1
20°	5135.0	5135.0	5248.9	5326.6	5368.1	5425.2	5528.8	5642.7	5699.8	5710.1	5767.2
22.5°	5020.9	5031.2	5140.1	5217.8	5280.1	5321.4	5430.2	5549.4	5601.2	5616.8	5678.9
25°	4870.7	4881.0	4984.7	5062.4	5129.7	5176.3	5280.1	5388.8	5451.1	5466.5	5513.2
27.5°	4673.8	4694.5	4793.0	4870.7	4927.6	4958.8	5067.6	5181.6	5228.1	5243.7	5290.4
30°	4445.8	4451.0	4549.4	4616.8	4673.8	4699.7	4793.0	4912.2	4948.4	4964.0	5031.2
32.5°	4165.9	4160.9	4254.1	4316.3	4362.8	4394.0	4492.3	4570.2	4606.5	4632.4	4668.6
35°	3829.2	3823.9	3891.3	3964.0	4000.2	4010.5	4109.1	4191.8	4212.7	4233.3	4280.0
37.5°	3451.0	3451.0	3507.9	3544.3	3585.6	3601.1	3647.9	3741.2	3777.4	3772.1	3808.4
40°	3051.9	3031.3	3072.6	3109.0	3119.3	3124.4	3171.1	3243.6	3269.5	3269.5	3295.4
42.5°	2632.3	2601.1	2606.4	2627.0	2637.3	2601.1	2632.3	2678.8	2663.2	2684.1	2689.3
45°	2186.7	2139.9	2119.3	2072.5	2083.1	2046.6	2026.0	2036.3	2031.3	1979.5	1989.8
47.5°	1823.8	1741.1	1704.7	1637.5	1621.9	1580.4	1554.5	1507.8	1466.5	1466.5	1440.4
50°	1518.3	1435.3	1362.7	1285.0	1259.1	1222.8	1165.8	1103.7	1072.5	1041.5	1015.6
52.5°	1274.6	1186.6	1098.4	1015.6	979.4	932.7	855.0	792.8	735.8	704.6	673.6
55°	1077.8	979.4	886.1	797.9	751.4	704.6	626.9	554.5	487.1	445.6	419.7
57.5°	927.4	834.3	735.8	642.5	601.0	549.2	466.4	388.5	326.4	279.9	254.0
60°	818.7	725.4	637.4	538.9	497.4	445.6	357.6	284.9	222.8	181.3	150.3
62.5°	725.4	642.5	549.2	461.2	419.7	367.9	284.9	212.5	155.4	113.9	88.0
65°	658.1	575.1	497.4	409.4	373.1	321.3	243.4	176.2	124.4	88.0	62.1
67.5°	580.4	507.7	430.0	357.6	321.3	279.9	207.2	150.3	103.6	72.4	51.8
70°	487.1	430.0	362.6	295.4	269.5	233.1	171.0	124.4	83.0	57.1	41.5
72.5°	388.5	342.0	290.2	238.4	217.5	181.3	139.8	98.5	62.1	41.5	31.2
75°	295.4	259.0	217.5	181.3	160.7	139.8	103.6	72.4	46.5	31.2	20.6
77.5°	202.2	186.6	155.4	124.4	113.9	98.5	67.4	46.5	31.2	20.6	10.3
80°	139.8	124.4	103.6	83.0	72.4	62.1	41.5	31.2	15.6	10.3	5.3
82.5°	88.0	72.4	62.1	51.8	46.5	36.2	25.9	15.6	10.3	5.3	5.3
85°	46.5	41.5	36.2	25.9	25.9	20.6	15.6	10.3	5.3	0.0	0.0
87.5°	25.9	20.6	15.6	10.3	10.3	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°	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9
2.5°	5451.1	5451.1	5445.8	5508.0	5435.5	5508.0	5471.7	5508.0	5456.2	5451.1	5456.2
5°	5492.4	5508.0	5513.2	5570.1	5502.9	5590.9	5559.8	5590.9	5554.7	5565.0	5580.6
7.5°	5575.3	5601.2	5596.2	5668.6	5601.2	5699.8	5678.9	5725.7	5689.3	5699.8	5720.4
10°	5668.6	5699.8	5704.8	5777.5	5715.2	5834.4	5808.5	5860.3	5829.3	5844.9	5870.8
12.5°	5777.5	5813.7	5819.0	5901.7	5834.4	5958.8	5943.2	5995.0	5969.1	5984.7	6015.9
15°	5860.3	5912.1	5922.6	6005.3	5932.9	6062.4	6052.1	6119.5	6078.0	6103.9	6129.8
17.5°	5901.7	5948.5	5969.1	6046.8	5984.7	6114.2	6103.9	6161.0	6129.8	6155.7	6186.9
20°	5875.8	5932.9	5948.5	6026.2	5964.1	6093.6	6078.0	6135.1	6103.9	6124.5	6155.7
22.5°	5782.6	5839.6	5860.3	5932.9	5875.8	5995.0	5990.0	6041.8	6000.3	6026.2	6052.1
25°	5616.8	5678.9	5689.3	5756.7	5694.5	5819.0	5808.5	5865.5	5834.4	5849.9	5886.2
27.5°	5378.4	5451.1	5466.5	5523.5	5477.0	5580.6	5580.6	5627.1	5590.9	5590.9	5627.1
30°	5093.5	5166.0	5176.3	5223.0	5181.6	5274.8	5280.1	5326.6	5269.6	5300.7	5306.0
32.5°	4746.3	4793.0	4824.0	4865.5	4803.3	4922.5	4907.0	4943.2	4912.2	4912.2	4938.1
35°	4326.6	4383.7	4399.2	4451.0	4399.2	4492.3	4492.3	4513.2	4482.0	4482.0	4523.5
37.5°	3870.7	3912.2	3917.2	3969.0	3927.5	4005.3	4000.2	4015.8	3984.6	4005.3	4005.3
40°	3336.9	3368.0	3378.3	3404.3	3399.2	3456.1	3451.0	3461.3	3445.7	3451.0	3461.3
42.5°	2715.2	2756.5	2777.3	2798.0	2767.0	2844.7	2829.2	2844.7	2839.5	2844.7	2860.3
45°	2000.1	2031.3	2046.6	2051.9	2041.6	2088.1	2124.3	2093.4	2098.4	2088.1	2109.0
47.5°	1445.6	1450.9	1440.4	1471.5	1445.6	1466.5	1476.8	1481.9	1450.9	1445.6	1466.5
50°	989.7	1015.6	979.4	994.8	989.7	1010.4	1000.0	1005.3	974.1	989.7	979.4
52.5°	658.1	652.8	642.5	647.7	637.4	637.4	637.4	647.7	626.9	616.6	606.3
55°	399.0	388.5	367.9	362.6	362.6	367.9	357.6	347.2	347.2	342.0	342.0
57.5°	233.1	217.5	207.2	202.2	191.6	186.6	181.3	181.3	171.0	171.0	171.0
60°	129.5	113.9	103.6	93.3	93.3	88.0	83.0	77.7	77.7	77.7	72.4
62.5°	67.4	57.1	46.5	41.5	41.5	36.2	31.2	31.2	31.2	31.2	25.9
65°	46.5	36.2	31.2	25.9	25.9	20.6	20.6	20.6	20.6	20.6	20.6
67.5°	36.2	31.2	25.9	20.6	20.6	20.6	15.6	15.6	15.6	15.6	15.6
70°	31.2	20.6	20.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
72.5°	20.6	20.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
75°	15.6	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
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: P685270

CATALOG NUMBER: LX6C90D010 EX6909030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9	5419.9
2.5°	5502.9	5497.6	5502.9	5513.2	5492.4	5554.7	5523.5	5554.7
5°	5622.1	5627.1	5632.4	5648.0	5622.1	5699.8	5658.3	5704.8
7.5°	5777.5	5782.6	5787.8	5803.4	5787.8	5865.5	5819.0	5860.3
10°	5938.2	5948.5	5948.5	5974.4	5958.8	6031.3	6000.3	6052.1
12.5°	6088.3	6098.6	6109.2	6124.5	6114.2	6191.9	6166.0	6207.5
15°	6207.5	6228.1	6233.4	6254.0	6243.7	6326.7	6295.5	6337.0
17.5°	6264.6	6285.2	6285.2	6311.1	6300.8	6388.8	6347.3	6394.1
20°	6233.4	6249.0	6254.0	6280.1	6269.6	6357.8	6316.4	6373.2
22.5°	6135.1	6140.1	6145.4	6171.3	6166.0	6243.7	6207.5	6243.7
25°	5953.5	5969.1	5964.1	5984.7	5984.7	6046.8	6005.3	6036.5
27.5°	5694.5	5710.1	5710.1	5736.0	5715.2	5777.5	5736.0	5782.6
30°	5378.4	5394.0	5383.7	5404.3	5383.7	5445.8	5414.7	5430.2
32.5°	5000.2	5000.2	5005.3	5010.6	5000.2	5057.1	5026.1	5057.1
35°	4549.4	4559.7	4565.0	4570.2	4559.7	4601.2	4565.0	4585.6
37.5°	4041.7	4067.6	4062.3	4067.6	4052.0	4103.8	4072.6	4083.2
40°	3497.5	3497.5	3492.3	3502.8	3487.2	3528.7	3507.9	3518.2
42.5°	2865.4	2881.0	2860.3	2886.2	2844.7	2901.6	2881.0	2865.4
45°	2150.4	2129.6	2124.3	2129.6	2114.0	2119.3	2134.9	2124.3
47.5°	1466.5	1466.5	1456.0	1440.4	1461.2	1466.5	1445.6	1445.6
50°	984.5	984.5	974.1	968.9	979.4	974.1	963.8	979.4
52.5°	626.9	606.3	606.3	616.6	606.3	595.9	611.5	601.0
55°	342.0	331.7	331.7	342.0	331.7	331.7	326.4	336.7
57.5°	165.7	171.0	165.7	165.7	165.7	165.7	160.7	165.7
60°	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
62.5°	31.2	31.2	25.9	25.9	25.9	25.9	25.9	25.9
65°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
67.5°	15.6	15.6	15.6	15.6	15.6	20.6	15.6	15.6
70°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
72.5°	15.6	15.6	20.6	20.6	20.6	20.6	20.6	20.6
75°	10.3	10.3	10.3	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)