

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: P685205

Luminaire Tested: **LX6C75D010 EX6759040 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685205
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: LX6C75D010 EX6759040 6LCSWLI
Description: 6 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

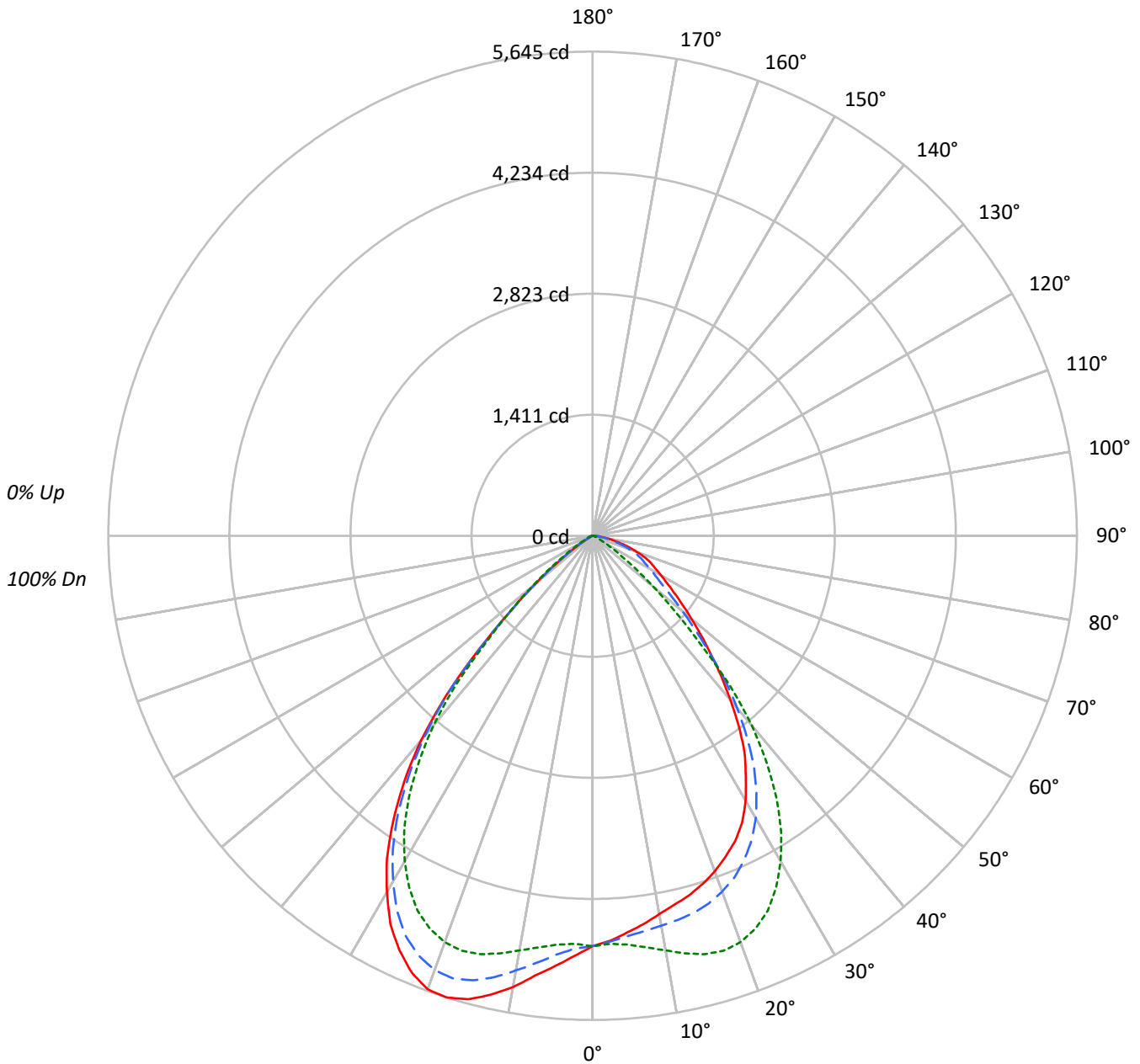
Lumens per Lamp: N/A
Luminaire Lumens: 8746.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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°	262304	262304	262304
5°	255497	263306	277145
10°	249283	273219	297412
15°	246369	286613	317505
20°	242839	294078	328235
25°	237679	291906	322343
30°	225858	277403	303458
35°	206638	250105	270918
40°	178735	206551	222266
45°	150729	135479	145395
50°	127962	78420	73737
55°	111050	37600	28415
60°	100299	17553	7017
65°	97300	10079	2361
70°	87242	8078	2212
75°	71697	5825	974
80°	53416	2873	0
85°	46042	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.2	5.3
10°-20°	1408.5	16.1
20°-30°	2152.1	24.6
30°-40°	2250.9	25.7
40°-50°	1460.2	16.7
50°-60°	579.8	6.6
60°-70°	275.0	3.1
70°-80°	130.8	1.5
80°-90°	26.7	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°	4022.7	46.0
0°-40°	6273.6	71.7
0°-60°	8313.5	95.1
0°-90°	8746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8746.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4785	4785	4785	4785	4785	
5°	4643	4684	4785	4904	5036	438
15°	4341	4552	5050	5366	5594	1223
25°	3929	4176	4826	5151	5329	1799
35°	3088	3275	3737	3957	4048	1909
45°	1944	1926	1748	1852	1875	1513
55°	1162	988	393	306	297	1053
65°	750	622	78	18	18	733
75°	338	274	28	9	5	365
85°	73	46	0	0	0	85
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°	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8
2.5°	4725.3	4734.4	4684.2	4670.4	4707.1	4720.6	4725.3	4711.5	4716.2	4734.4	4734.4
5°	4642.9	4652.0	4606.3	4592.6	4629.2	4638.5	4652.0	4647.6	4661.3	4688.7	4684.2
7.5°	4565.2	4579.0	4528.6	4510.4	4556.1	4579.0	4588.1	4588.1	4606.3	4642.9	4647.6
10°	4478.2	4496.6	4450.9	4441.6	4492.0	4514.8	4519.5	4528.6	4556.1	4606.3	4615.4
12.5°	4405.1	4423.4	4391.4	4377.6	4432.5	4455.4	4464.5	4482.9	4514.8	4579.0	4588.1
15°	4341.0	4354.8	4318.2	4309.0	4363.9	4391.4	4395.9	4423.4	4464.5	4537.7	4551.5
17.5°	4258.7	4267.8	4240.4	4231.3	4286.2	4313.5	4318.2	4350.1	4400.5	4473.7	4496.6
20°	4162.6	4171.8	4144.3	4135.2	4190.1	4222.0	4226.7	4254.2	4313.5	4391.4	4414.3
22.5°	4048.2	4066.6	4034.6	4025.4	4080.4	4107.7	4121.5	4144.3	4203.8	4281.5	4313.5
25°	3929.4	3929.4	3906.6	3901.9	3952.3	3984.3	3979.6	4011.6	4071.1	4149.0	4176.3
27.5°	3773.8	3769.2	3746.3	3741.8	3796.7	3824.2	3814.9	3847.1	3901.9	3979.6	4007.1
30°	3568.0	3577.1	3545.2	3535.9	3581.8	3627.5	3622.9	3654.9	3709.7	3782.9	3801.3
32.5°	3321.0	3330.1	3325.6	3311.9	3352.9	3375.8	3389.6	3412.4	3458.2	3535.9	3554.3
35°	3087.7	3073.9	3055.7	3055.7	3096.8	3133.4	3119.6	3147.1	3192.9	3270.6	3275.2
37.5°	2799.5	2794.9	2785.8	2776.6	2822.4	2831.5	2836.1	2854.4	2895.6	2959.6	2950.5
40°	2497.6	2502.1	2497.6	2479.2	2506.7	2543.3	2538.7	2548.0	2584.4	2630.2	2616.6
42.5°	2213.9	2213.9	2213.9	2195.7	2227.7	2246.1	2255.2	2250.5	2259.7	2300.9	2282.5
45°	1944.2	1948.6	1944.2	1939.5	1944.2	1953.3	1944.2	1939.5	1939.5	1953.3	1925.8
47.5°	1710.9	1710.9	1697.1	1683.4	1697.1	1701.6	1688.0	1674.2	1669.6	1665.1	1619.4
50°	1500.4	1495.8	1491.3	1468.4	1482.0	1486.7	1468.4	1459.2	1440.9	1418.1	1363.2
52.5°	1317.5	1312.8	1308.2	1285.3	1294.6	1299.1	1280.9	1262.5	1239.6	1221.4	1152.8
55°	1161.9	1157.2	1157.2	1143.7	1134.4	1143.7	1125.3	1111.5	1079.5	1056.7	988.1
57.5°	1029.2	1029.2	1020.1	1006.3	1010.9	1010.9	992.7	974.3	946.8	919.5	864.6
60°	914.8	914.8	914.8	901.1	901.1	901.1	892.0	873.7	850.9	823.4	768.5
62.5°	823.4	823.4	818.7	805.1	809.6	809.6	800.5	782.3	759.4	741.0	686.2
65°	750.1	750.1	750.1	736.5	736.5	741.0	731.9	713.7	695.3	672.4	622.0
67.5°	658.7	654.2	654.2	644.9	649.5	654.2	644.9	631.3	608.5	594.7	549.0
70°	544.3	549.0	553.4	539.9	544.3	544.3	539.9	526.1	512.3	498.6	457.5
72.5°	443.7	443.7	439.1	434.6	434.6	439.1	430.0	416.2	407.1	398.0	365.9
75°	338.5	333.9	338.5	329.4	329.4	329.4	320.1	315.7	311.0	297.3	274.4
77.5°	247.1	242.4	242.4	233.3	237.9	237.9	233.3	224.2	214.9	210.4	192.0
80°	169.2	169.2	169.2	164.7	164.7	160.1	160.1	155.6	146.3	141.8	132.7
82.5°	114.3	114.3	114.3	109.9	109.9	109.9	105.2	100.6	96.1	91.5	82.4
85°	73.2	73.2	73.2	68.6	68.6	68.6	64.0	64.0	59.5	54.8	45.7
87.5°	41.1	41.1	41.1	36.6	36.6	36.6	36.6	36.6	32.0	27.5	22.9
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°	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8
2.5°	4766.4	4702.4	4743.5	4743.5	4729.9	4766.4	4789.4	4807.6	4803.0	4761.9	4757.3
5°	4729.9	4674.9	4720.6	4725.3	4711.5	4761.9	4793.9	4816.7	4821.4	4784.8	4789.4
7.5°	4702.4	4656.7	4716.2	4734.4	4729.9	4775.7	4812.3	4848.7	4867.1	4839.6	4844.3
10°	4688.7	4652.0	4716.2	4743.5	4748.1	4798.5	4853.4	4903.7	4926.6	4908.2	4922.0
12.5°	4670.4	4647.6	4720.6	4761.9	4780.1	4830.5	4899.1	4958.6	4995.2	4986.1	5013.4
15°	4652.0	4633.8	4720.6	4780.1	4803.0	4848.7	4926.6	5013.4	5054.7	5050.1	5086.7
17.5°	4606.3	4601.8	4693.3	4757.3	4789.4	4844.3	4917.3	5022.5	5063.8	5072.9	5118.7
20°	4533.2	4533.2	4633.8	4702.4	4739.0	4789.4	4880.9	4981.5	5031.8	5040.9	5091.3
22.5°	4432.5	4441.6	4537.7	4606.3	4661.3	4697.8	4793.9	4899.1	4944.8	4958.6	5013.4
25°	4299.9	4309.0	4400.5	4469.1	4528.6	4569.7	4661.3	4757.3	4812.3	4825.9	4867.1
27.5°	4126.1	4144.3	4231.3	4299.9	4350.1	4377.6	4473.7	4574.3	4615.4	4629.2	4670.4
30°	3924.8	3929.4	4016.2	4075.7	4126.1	4149.0	4231.3	4336.5	4368.5	4382.3	4441.6
32.5°	3677.7	3673.2	3755.6	3810.4	3851.5	3879.0	3965.9	4034.6	4066.6	4089.5	4121.5
35°	3380.5	3375.8	3435.3	3499.4	3531.4	3540.5	3627.5	3700.6	3719.0	3737.2	3778.5
37.5°	3046.6	3046.6	3096.8	3128.9	3165.4	3179.1	3220.4	3302.7	3334.7	3330.1	3362.1
40°	2694.3	2676.1	2712.5	2744.7	2753.8	2758.2	2799.5	2863.5	2886.3	2886.3	2909.2
42.5°	2323.8	2296.3	2300.9	2319.1	2328.3	2296.3	2323.8	2364.9	2351.1	2369.5	2374.2
45°	1930.4	1889.1	1870.9	1829.7	1838.9	1806.8	1788.6	1797.7	1793.2	1747.5	1756.6
47.5°	1610.1	1537.0	1504.9	1445.6	1431.8	1395.2	1372.3	1331.1	1294.6	1294.6	1271.6
50°	1340.4	1267.1	1203.0	1134.4	1111.5	1079.5	1029.2	974.3	946.8	919.5	896.6
52.5°	1125.3	1047.6	969.7	896.6	864.6	823.4	754.8	699.9	649.5	622.0	594.7
55°	951.5	864.6	782.3	704.4	663.3	622.0	553.4	489.5	430.0	393.4	370.5
57.5°	818.7	736.5	649.5	567.2	530.6	484.8	411.8	343.0	288.2	247.1	224.2
60°	722.8	640.4	562.7	475.7	439.1	393.4	315.7	251.5	196.7	160.1	132.7
62.5°	640.4	567.2	484.8	407.1	370.5	324.8	251.5	187.6	137.2	100.6	77.7
65°	580.9	507.7	439.1	361.4	329.4	283.7	214.9	155.6	109.9	77.7	54.8
67.5°	512.3	448.2	379.6	315.7	283.7	247.1	182.9	132.7	91.5	64.0	45.7
70°	430.0	379.6	320.1	260.8	237.9	205.8	151.0	109.9	73.2	50.4	36.6
72.5°	343.0	301.9	256.2	210.4	192.0	160.1	123.4	87.0	54.8	36.6	27.5
75°	260.8	228.7	192.0	160.1	141.8	123.4	91.5	64.0	41.1	27.5	18.2
77.5°	178.5	164.7	137.2	109.9	100.6	87.0	59.5	41.1	27.5	18.2	9.1
80°	123.4	109.9	91.5	73.2	64.0	54.8	36.6	27.5	13.8	9.1	4.6
82.5°	77.7	64.0	54.8	45.7	41.1	32.0	22.9	13.8	9.1	4.6	4.6
85°	41.1	36.6	32.0	22.9	22.9	18.2	13.8	9.1	4.6	0.0	0.0
87.5°	22.9	18.2	13.8	9.1	9.1	4.6	4.6	4.6	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°	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8
2.5°	4812.3	4812.3	4807.6	4862.5	4798.5	4862.5	4830.5	4862.5	4816.7	4812.3	4816.7
5°	4848.7	4862.5	4867.1	4917.3	4858.0	4935.7	4908.2	4935.7	4903.7	4912.9	4926.6
7.5°	4922.0	4944.8	4940.4	5004.3	4944.8	5031.8	5013.4	5054.7	5022.5	5031.8	5050.1
10°	5004.3	5031.8	5036.3	5100.4	5045.4	5150.6	5127.8	5173.5	5146.2	5159.9	5182.8
12.5°	5100.4	5132.4	5137.0	5210.1	5150.6	5260.5	5246.7	5292.5	5269.6	5283.4	5310.9
15°	5173.5	5219.2	5228.5	5301.6	5237.6	5352.0	5342.8	5402.3	5365.7	5388.6	5411.4
17.5°	5210.1	5251.4	5269.6	5338.2	5283.4	5397.7	5388.6	5439.0	5411.4	5434.3	5461.8
20°	5187.3	5237.6	5251.4	5320.0	5265.1	5379.5	5365.7	5416.1	5388.6	5406.8	5434.3
22.5°	5104.9	5155.3	5173.5	5237.6	5187.3	5292.5	5288.0	5333.7	5297.1	5320.0	5342.8
25°	4958.6	5013.4	5022.5	5082.0	5027.2	5137.0	5127.8	5178.1	5150.6	5164.4	5196.4
27.5°	4748.1	4812.3	4825.9	4876.2	4835.1	4926.6	4926.6	4967.7	4935.7	4935.7	4967.7
30°	4496.6	4560.6	4569.7	4610.9	4574.3	4656.7	4661.3	4702.4	4652.0	4679.5	4684.2
32.5°	4190.1	4231.3	4258.7	4295.3	4240.4	4345.7	4331.9	4363.9	4336.5	4336.5	4359.4
35°	3819.6	3869.9	3883.7	3929.4	3883.7	3965.9	3965.9	3984.3	3956.8	3956.8	3993.4
37.5°	3417.1	3453.7	3458.2	3503.9	3467.3	3535.9	3531.4	3545.2	3517.7	3535.9	3535.9
40°	2945.8	2973.3	2982.4	3005.3	3000.8	3051.0	3046.6	3055.7	3041.9	3046.6	3055.7
42.5°	2397.0	2433.5	2451.9	2470.1	2442.8	2511.4	2497.6	2511.4	2506.7	2511.4	2525.1
45°	1765.7	1793.2	1806.8	1811.4	1802.3	1843.4	1875.4	1848.1	1852.5	1843.4	1861.8
47.5°	1276.2	1280.9	1271.6	1299.1	1276.2	1294.6	1303.7	1308.2	1280.9	1276.2	1294.6
50°	873.7	896.6	864.6	878.2	873.7	892.0	882.9	887.5	860.0	873.7	864.6
52.5°	580.9	576.3	567.2	571.8	562.7	562.7	562.7	571.8	553.4	544.3	535.2
55°	352.3	343.0	324.8	320.1	320.1	324.8	315.7	306.5	306.5	301.9	301.9
57.5°	205.8	192.0	182.9	178.5	169.2	164.7	160.1	160.1	151.0	151.0	151.0
60°	114.3	100.6	91.5	82.4	82.4	77.7	73.2	68.6	68.6	68.6	64.0
62.5°	59.5	50.4	41.1	36.6	36.6	32.0	27.5	27.5	27.5	27.5	22.9
65°	41.1	32.0	27.5	22.9	22.9	18.2	18.2	18.2	18.2	18.2	18.2
67.5°	32.0	27.5	22.9	18.2	18.2	18.2	13.8	13.8	13.8	13.8	13.8
70°	27.5	18.2	18.2	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
72.5°	18.2	18.2	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
75°	13.8	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	0.0	0.0	0.0	0.0	0.0
80°	4.6	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: P685205

CATALOG NUMBER: LX6C75D010 EX6759040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8	4784.8
2.5°	4858.0	4853.4	4858.0	4867.1	4848.7	4903.7	4876.2	4903.7
5°	4963.2	4967.7	4972.3	4986.1	4963.2	5031.8	4995.2	5036.3
7.5°	5100.4	5104.9	5109.5	5123.3	5109.5	5178.1	5137.0	5173.5
10°	5242.3	5251.4	5251.4	5274.2	5260.5	5324.4	5297.1	5342.8
12.5°	5374.8	5383.9	5393.2	5406.8	5397.7	5466.3	5443.4	5480.0
15°	5480.0	5498.3	5502.9	5521.1	5512.0	5585.3	5557.8	5594.4
17.5°	5530.4	5548.6	5548.6	5571.5	5562.4	5640.1	5603.5	5644.8
20°	5502.9	5516.7	5521.1	5544.2	5534.9	5612.8	5576.2	5626.4
22.5°	5416.1	5420.6	5425.2	5448.1	5443.4	5512.0	5480.0	5512.0
25°	5255.8	5269.6	5265.1	5283.4	5283.4	5338.2	5301.6	5329.1
27.5°	5027.2	5040.9	5040.9	5063.8	5045.4	5100.4	5063.8	5104.9
30°	4748.1	4761.9	4752.8	4771.0	4752.8	4807.6	4780.1	4793.9
32.5°	4414.3	4414.3	4418.7	4423.4	4414.3	4464.5	4437.1	4464.5
35°	4016.2	4025.4	4030.0	4034.6	4025.4	4062.0	4030.0	4048.2
37.5°	3568.0	3590.9	3586.3	3590.9	3577.1	3622.9	3595.4	3604.6
40°	3087.7	3087.7	3083.0	3092.3	3078.5	3115.2	3096.8	3105.9
42.5°	2529.6	2543.3	2525.1	2548.0	2511.4	2561.6	2543.3	2529.6
45°	1898.4	1880.0	1875.4	1880.0	1866.3	1870.9	1884.7	1875.4
47.5°	1294.6	1294.6	1285.3	1271.6	1290.0	1294.6	1276.2	1276.2
50°	869.1	869.1	860.0	855.3	864.6	860.0	850.9	864.6
52.5°	553.4	535.2	535.2	544.3	535.2	526.1	539.9	530.6
55°	301.9	292.8	292.8	301.9	292.8	292.8	288.2	297.3
57.5°	146.3	151.0	146.3	146.3	146.3	146.3	141.8	146.3
60°	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
62.5°	27.5	27.5	22.9	22.9	22.9	22.9	22.9	22.9
65°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
67.5°	13.8	13.8	13.8	13.8	13.8	18.2	13.8	13.8
70°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
72.5°	13.8	13.8	18.2	18.2	18.2	18.2	18.2	18.2
75°	9.1	9.1	9.1	4.6	4.6	4.6	4.6	4.6
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)