

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: P685190

Luminaire Tested: **LX6C75D010 EX6759027 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685190
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 EX6759027 6LCSWLI
Description: 6 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

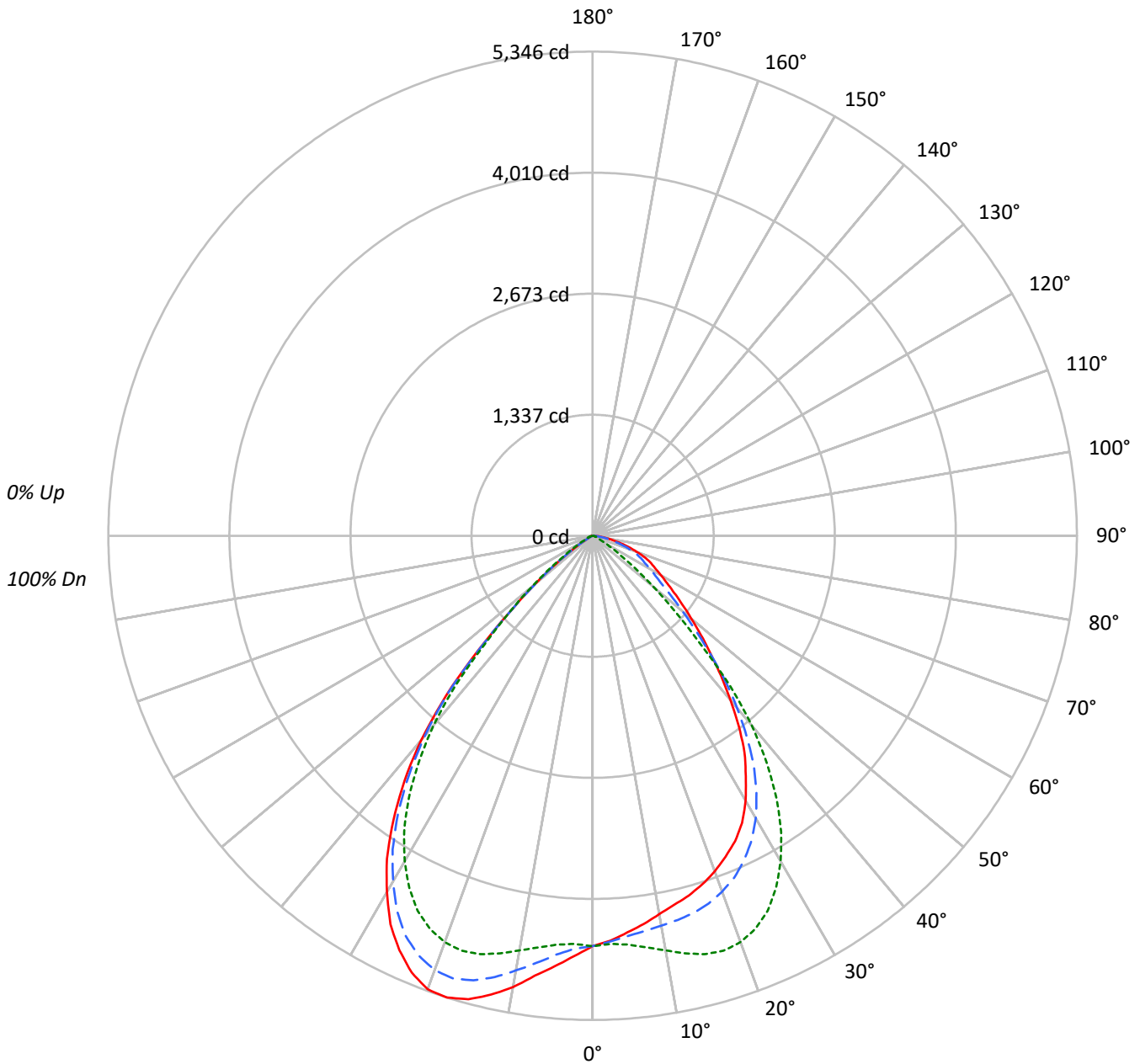
Lumens per Lamp: N/A
Luminaire Lumens: 8283.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	248418	248418	248418
5°	241971	249367	262475
10°	236084	258757	281669
15°	233327	271437	300694
20°	229982	278513	310856
25°	225098	276451	305280
30°	213900	262718	287392
35°	195696	236868	256576
40°	169274	195616	210502
45°	142743	128308	137696
50°	121190	74266	69840
55°	105172	35602	26905
60°	94992	16621	6644
65°	92150	9547	2244
70°	82626	7646	2084
75°	67906	5528	932
80°	50575	2715	0
85°	43652	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.7	5.3
10°-20°	1333.9	16.1
20°-30°	2038.1	24.6
30°-40°	2131.7	25.7
40°-50°	1382.9	16.7
50°-60°	549.1	6.6
60°-70°	260.5	3.1
70°-80°	123.9	1.5
80°-90°	25.3	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°	3809.8	46.0
0°-40°	5941.5	71.7
0°-60°	7873.4	95.1
0°-90°	8283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8283.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4532	4532	4532	4532	4532	
5°	4397	4436	4532	4644	4770	415
15°	4111	4310	4783	5082	5298	1159
25°	3721	3955	4570	4878	5047	1704
35°	2924	3102	3539	3747	3834	1808
45°	1841	1824	1655	1754	1776	1433
55°	1100	936	372	290	282	997
65°	710	589	74	17	17	694
75°	321	260	26	9	4	346
85°	69	43	0	0	0	81
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°	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5
2.5°	4475.1	4483.8	4436.2	4423.2	4457.9	4470.7	4475.1	4462.1	4466.5	4483.8	4483.8
5°	4397.1	4405.8	4362.5	4349.4	4384.1	4392.9	4405.8	4401.5	4414.6	4440.4	4436.2
7.5°	4323.5	4336.6	4288.9	4271.6	4314.9	4336.6	4345.2	4345.2	4362.5	4397.1	4401.5
10°	4241.1	4258.6	4215.3	4206.5	4254.2	4275.8	4280.2	4288.9	4314.9	4362.5	4371.1
12.5°	4171.9	4189.2	4158.9	4145.9	4197.8	4219.5	4228.1	4245.5	4275.8	4336.6	4345.2
15°	4111.2	4124.2	4089.6	4080.9	4132.9	4158.9	4163.2	4189.2	4228.1	4297.5	4310.5
17.5°	4033.2	4041.8	4016.0	4007.3	4059.3	4085.2	4089.6	4119.8	4167.6	4236.9	4258.6
20°	3942.2	3951.0	3924.9	3916.3	3968.3	3998.5	4002.9	4029.0	4085.2	4158.9	4180.6
22.5°	3833.9	3851.3	3821.1	3812.3	3864.4	3890.3	3903.3	3924.9	3981.3	4054.9	4085.2
25°	3721.4	3721.4	3699.7	3695.4	3743.1	3773.3	3769.0	3799.2	3855.6	3929.3	3955.2
27.5°	3574.0	3569.7	3548.0	3543.8	3595.7	3621.8	3613.0	3643.4	3695.4	3769.0	3795.0
30°	3379.1	3387.8	3357.5	3348.7	3392.2	3435.5	3431.1	3461.4	3513.3	3582.7	3600.1
32.5°	3145.2	3153.8	3149.6	3136.5	3175.4	3197.1	3210.1	3231.8	3275.1	3348.7	3366.1
35°	2924.2	2911.2	2893.9	2893.9	2932.8	2967.5	2954.5	2980.5	3023.9	3097.5	3101.8
37.5°	2651.3	2646.9	2638.3	2629.7	2673.0	2681.6	2686.0	2703.2	2742.3	2802.9	2794.3
40°	2365.4	2369.6	2365.4	2348.0	2374.0	2408.7	2404.3	2413.1	2447.6	2490.9	2478.1
42.5°	2096.7	2096.7	2096.7	2079.5	2109.7	2127.2	2135.8	2131.4	2140.0	2179.1	2161.7
45°	1841.2	1845.5	1841.2	1836.8	1841.2	1849.9	1841.2	1836.8	1836.8	1849.9	1823.8
47.5°	1620.3	1620.3	1607.3	1594.2	1607.3	1611.5	1598.6	1585.6	1581.2	1577.0	1533.7
50°	1421.0	1416.6	1412.4	1390.7	1403.6	1408.0	1390.7	1381.9	1364.7	1343.0	1291.1
52.5°	1247.7	1243.3	1238.9	1217.3	1226.1	1230.3	1213.1	1195.6	1174.0	1156.7	1091.8
55°	1100.4	1096.0	1096.0	1083.1	1074.3	1083.1	1065.7	1052.7	1022.4	1000.7	935.8
57.5°	974.7	974.7	966.1	953.0	957.4	957.4	940.2	922.7	896.7	870.8	818.9
60°	866.4	866.4	866.4	853.4	853.4	853.4	844.7	827.5	805.8	779.8	727.8
62.5°	779.8	779.8	775.4	762.5	766.8	766.8	758.1	740.9	719.2	701.8	649.8
65°	710.4	710.4	710.4	697.5	697.5	701.8	693.2	675.9	658.5	636.8	589.1
67.5°	623.8	619.6	619.6	610.8	615.2	619.6	610.8	597.9	576.2	563.2	519.9
70°	515.5	519.9	524.1	511.3	515.5	515.5	511.3	498.2	485.2	472.2	433.3
72.5°	420.3	420.3	415.9	411.6	411.6	415.9	407.2	394.2	385.6	376.9	346.5
75°	320.6	316.2	320.6	312.0	312.0	312.0	303.2	298.9	294.6	281.5	259.9
77.5°	234.0	229.6	229.6	221.0	225.4	225.4	221.0	212.3	203.5	199.3	181.9
80°	160.2	160.2	160.2	156.0	156.0	151.6	151.6	147.4	138.6	134.3	125.7
82.5°	108.3	108.3	108.3	104.0	104.0	104.0	99.6	95.3	91.0	86.6	78.0
85°	69.4	69.4	69.4	65.0	65.0	65.0	60.6	60.6	56.3	51.9	43.3
87.5°	38.9	38.9	38.9	34.7	34.7	34.7	34.7	34.7	30.3	26.1	21.7
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°	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5
2.5°	4514.0	4453.5	4492.4	4492.4	4479.5	4514.0	4535.9	4553.1	4548.7	4509.8	4505.4
5°	4479.5	4427.4	4470.7	4475.1	4462.1	4509.8	4540.1	4561.8	4566.1	4531.5	4535.9
7.5°	4453.5	4410.2	4466.5	4483.8	4479.5	4522.8	4557.5	4592.0	4609.5	4583.4	4587.8
10°	4440.4	4405.8	4466.5	4492.4	4496.8	4544.5	4596.4	4644.1	4665.8	4648.4	4661.4
12.5°	4423.2	4401.5	4470.7	4509.8	4527.1	4574.8	4639.7	4696.1	4730.8	4722.1	4748.0
15°	4405.8	4388.5	4470.7	4527.1	4548.7	4592.0	4665.8	4748.0	4787.1	4782.7	4817.4
17.5°	4362.5	4358.2	4444.8	4505.4	4535.9	4587.8	4657.0	4756.7	4795.7	4804.4	4847.7
20°	4293.3	4293.3	4388.5	4453.5	4488.2	4535.9	4622.5	4717.7	4765.4	4774.1	4821.8
22.5°	4197.8	4206.5	4297.5	4362.5	4414.6	4449.1	4540.1	4639.7	4683.1	4696.1	4748.0
25°	4072.3	4080.9	4167.6	4232.5	4288.9	4327.8	4414.6	4505.4	4557.5	4570.4	4609.5
27.5°	3907.7	3924.9	4007.3	4072.3	4119.8	4145.9	4236.9	4332.2	4371.1	4384.1	4423.2
30°	3717.0	3721.4	3803.6	3860.0	3907.7	3929.3	4007.3	4107.0	4137.3	4150.3	4206.5
32.5°	3483.0	3478.8	3556.8	3608.7	3647.6	3673.7	3755.9	3821.1	3851.3	3873.0	3903.3
35°	3201.5	3197.1	3253.4	3314.2	3344.5	3353.1	3435.5	3504.7	3522.1	3539.4	3578.4
37.5°	2885.3	2885.3	2932.8	2963.3	2997.8	3010.8	3049.9	3127.9	3158.2	3153.8	3184.1
40°	2551.7	2534.4	2568.9	2599.4	2608.0	2612.2	2651.3	2711.9	2733.5	2733.5	2755.2
42.5°	2200.8	2174.7	2179.1	2196.4	2205.0	2174.7	2200.8	2239.7	2226.7	2244.1	2248.5
45°	1828.2	1789.1	1771.9	1732.8	1741.6	1711.1	1693.9	1702.5	1698.3	1655.0	1663.6
47.5°	1524.9	1455.7	1425.2	1369.0	1356.0	1321.3	1299.7	1260.6	1226.1	1226.1	1204.3
50°	1269.4	1200.0	1139.3	1074.3	1052.7	1022.4	974.7	922.7	896.7	870.8	849.1
52.5°	1065.7	992.1	918.3	849.1	818.9	779.8	714.8	662.9	615.2	589.1	563.2
55°	901.1	818.9	740.9	667.1	628.2	589.1	524.1	463.6	407.2	372.5	350.9
57.5°	775.4	697.5	615.2	537.2	502.5	459.2	390.0	324.8	272.9	234.0	212.3
60°	684.5	606.5	532.9	450.5	415.9	372.5	298.9	238.2	186.3	151.6	125.7
62.5°	606.5	537.2	459.2	385.6	350.9	307.6	238.2	177.6	129.9	95.3	73.6
65°	550.2	480.8	415.9	342.3	312.0	268.7	203.5	147.4	104.0	73.6	51.9
67.5°	485.2	424.5	359.5	298.9	268.7	234.0	173.2	125.7	86.6	60.6	43.3
70°	407.2	359.5	303.2	247.0	225.4	194.9	143.0	104.0	69.4	47.7	34.7
72.5°	324.8	285.9	242.6	199.3	181.9	151.6	116.9	82.4	51.9	34.7	26.1
75°	247.0	216.6	181.9	151.6	134.3	116.9	86.6	60.6	38.9	26.1	17.3
77.5°	169.0	156.0	129.9	104.0	95.3	82.4	56.3	38.9	26.1	17.3	8.6
80°	116.9	104.0	86.6	69.4	60.6	51.9	34.7	26.1	13.0	8.6	4.4
82.5°	73.6	60.6	51.9	43.3	38.9	30.3	21.7	13.0	8.6	4.4	4.4
85°	38.9	34.7	30.3	21.7	21.7	17.3	13.0	8.6	4.4	0.0	0.0
87.5°	21.7	17.3	13.0	8.6	8.6	4.4	4.4	4.4	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°	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5
2.5°	4557.5	4557.5	4553.1	4605.1	4544.5	4605.1	4574.8	4605.1	4561.8	4557.5	4561.8
5°	4592.0	4605.1	4609.5	4657.0	4600.8	4674.4	4648.4	4674.4	4644.1	4652.8	4665.8
7.5°	4661.4	4683.1	4678.8	4739.4	4683.1	4765.4	4748.0	4787.1	4756.7	4765.4	4782.7
10°	4739.4	4765.4	4769.7	4830.4	4778.3	4878.0	4856.3	4899.6	4873.7	4886.8	4908.4
12.5°	4830.4	4860.7	4865.1	4934.3	4878.0	4982.0	4969.0	5012.3	4990.6	5003.7	5029.7
15°	4899.6	4942.9	4951.7	5020.9	4960.4	5068.6	5060.0	5116.3	5081.7	5103.3	5125.0
17.5°	4934.3	4973.4	4990.6	5055.6	5003.7	5111.9	5103.3	5151.0	5125.0	5146.6	5172.7
20°	4912.6	4960.4	4973.4	5038.3	4986.4	5094.7	5081.7	5129.4	5103.3	5120.6	5146.6
22.5°	4834.7	4882.4	4899.6	4960.4	4912.6	5012.3	5008.1	5051.4	5016.7	5038.3	5060.0
25°	4696.1	4748.0	4756.7	4813.0	4761.1	4865.1	4856.3	4904.0	4878.0	4891.0	4921.3
27.5°	4496.8	4557.5	4570.4	4618.1	4579.2	4665.8	4665.8	4704.7	4674.4	4674.4	4704.7
30°	4258.6	4319.1	4327.8	4366.9	4332.2	4410.2	4414.6	4453.5	4405.8	4431.8	4436.2
32.5°	3968.3	4007.3	4033.2	4067.9	4016.0	4115.6	4102.6	4132.9	4107.0	4107.0	4128.6
35°	3617.4	3665.1	3678.1	3721.4	3678.1	3755.9	3755.9	3773.3	3747.3	3747.3	3782.0
37.5°	3236.2	3270.9	3275.1	3318.4	3283.7	3348.7	3344.5	3357.5	3331.4	3348.7	3348.7
40°	2789.9	2815.9	2824.6	2846.2	2842.0	2889.5	2885.3	2893.9	2880.9	2885.3	2893.9
42.5°	2270.1	2304.6	2322.1	2339.3	2313.4	2378.4	2365.4	2378.4	2374.0	2378.4	2391.4
45°	1672.2	1698.3	1711.1	1715.5	1706.9	1745.8	1776.1	1750.2	1754.5	1745.8	1763.3
47.5°	1208.7	1213.1	1204.3	1230.3	1208.7	1226.1	1234.7	1238.9	1213.1	1208.7	1226.1
50°	827.5	849.1	818.9	831.7	827.5	844.7	836.1	840.5	814.5	827.5	818.9
52.5°	550.2	545.8	537.2	541.6	532.9	532.9	532.9	541.6	524.1	515.5	506.9
55°	333.6	324.8	307.6	303.2	303.2	307.6	298.9	290.3	290.3	285.9	285.9
57.5°	194.9	181.9	173.2	169.0	160.2	156.0	151.6	151.6	143.0	143.0	143.0
60°	108.3	95.3	86.6	78.0	78.0	73.6	69.4	65.0	65.0	65.0	60.6
62.5°	56.3	47.7	38.9	34.7	34.7	30.3	26.1	26.1	26.1	26.1	21.7
65°	38.9	30.3	26.1	21.7	21.7	17.3	17.3	17.3	17.3	17.3	17.3
67.5°	30.3	26.1	21.7	17.3	17.3	17.3	13.0	13.0	13.0	13.0	13.0
70°	26.1	17.3	17.3	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
72.5°	17.3	17.3	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
75°	13.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	0.0	0.0	0.0	0.0	0.0
80°	4.4	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: P685190

CATALOG NUMBER: LX6C75D010 EX6759027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5	4531.5
2.5°	4600.8	4596.4	4600.8	4609.5	4592.0	4644.1	4618.1	4644.1
5°	4700.5	4704.7	4709.1	4722.1	4700.5	4765.4	4730.8	4769.7
7.5°	4830.4	4834.7	4839.0	4852.1	4839.0	4904.0	4865.1	4899.6
10°	4964.7	4973.4	4973.4	4995.0	4982.0	5042.6	5016.7	5060.0
12.5°	5090.3	5098.9	5107.7	5120.6	5111.9	5176.9	5155.3	5189.9
15°	5189.9	5207.2	5211.6	5228.9	5220.2	5289.6	5263.5	5298.2
17.5°	5237.6	5254.9	5254.9	5276.6	5267.9	5341.5	5306.8	5345.9
20°	5211.6	5224.6	5228.9	5250.7	5241.9	5315.6	5281.0	5328.5
22.5°	5129.4	5133.6	5138.0	5159.7	5155.3	5220.2	5189.9	5220.2
25°	4977.6	4990.6	4986.4	5003.7	5003.7	5055.6	5020.9	5047.0
27.5°	4761.1	4774.1	4774.1	4795.7	4778.3	4830.4	4795.7	4834.7
30°	4496.8	4509.8	4501.2	4518.4	4501.2	4553.1	4527.1	4540.1
32.5°	4180.6	4180.6	4184.8	4189.2	4180.6	4228.1	4202.2	4228.1
35°	3803.6	3812.3	3816.7	3821.1	3812.3	3846.9	3816.7	3833.9
37.5°	3379.1	3400.8	3396.4	3400.8	3387.8	3431.1	3405.0	3413.8
40°	2924.2	2924.2	2919.8	2928.6	2915.6	2950.3	2932.8	2941.5
42.5°	2395.7	2408.7	2391.4	2413.1	2378.4	2426.0	2408.7	2395.7
45°	1797.9	1780.5	1776.1	1780.5	1767.5	1771.9	1784.9	1776.1
47.5°	1226.1	1226.1	1217.3	1204.3	1221.7	1226.1	1208.7	1208.7
50°	823.1	823.1	814.5	810.1	818.9	814.5	805.8	818.9
52.5°	524.1	506.9	506.9	515.5	506.9	498.2	511.3	502.5
55°	285.9	277.3	277.3	285.9	277.3	277.3	272.9	281.5
57.5°	138.6	143.0	138.6	138.6	138.6	138.6	134.3	138.6
60°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
62.5°	26.1	26.1	21.7	21.7	21.7	21.7	21.7	21.7
65°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
67.5°	13.0	13.0	13.0	13.0	13.0	17.3	13.0	13.0
70°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
72.5°	13.0	13.0	17.3	17.3	17.3	17.3	17.3	17.3
75°	8.6	8.6	8.6	4.4	4.4	4.4	4.4	4.4
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)