

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: P685180

Luminaire Tested: **LX6C70D010 EX6709040 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685180
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: LX6C70D010 EX6709040 6LCSWLI
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

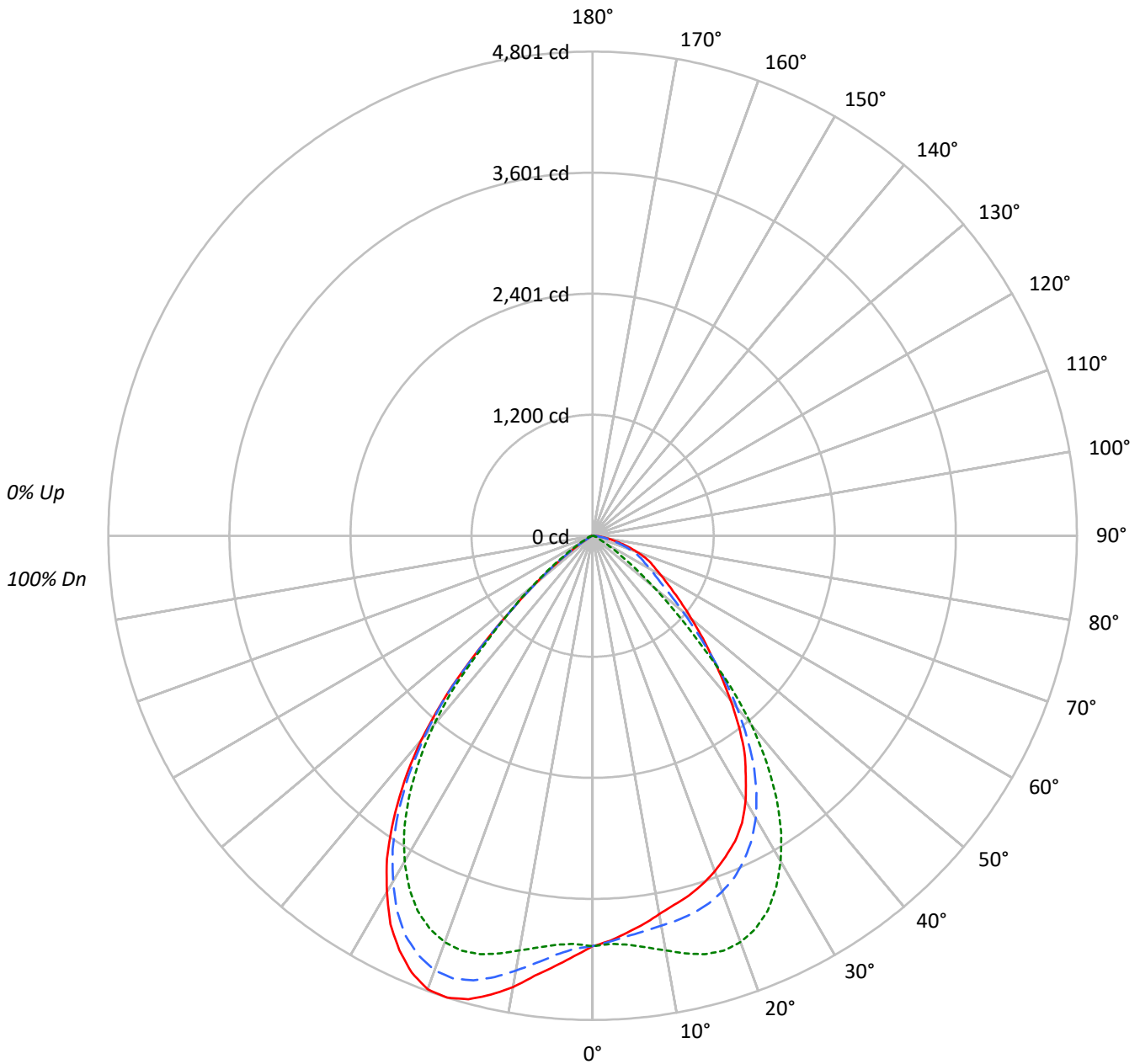
Lumens per Lamp: N/A
Luminaire Lumens: 7439.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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°	223102	223102	223102
5°	217317	223954	235730
10°	212031	232388	252968
15°	209553	243781	270058
20°	206547	250132	279184
25°	202161	248282	274171
30°	192106	235948	258109
35°	175753	212728	230436
40°	152028	175686	189047
45°	128199	115229	123664
50°	108841	66701	62719
55°	94458	31980	24162
60°	85311	14922	5964
65°	82759	8574	2011
70°	74211	6860	1875
75°	60980	4956	826
80°	45429	2462	0
85°	39186	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.1	5.3
10°-20°	1198.0	16.1
20°-30°	1830.5	24.6
30°-40°	1914.5	25.7
40°-50°	1242.0	16.7
50°-60°	493.1	6.6
60°-70°	233.9	3.1
70°-80°	111.2	1.5
80°-90°	22.7	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°	3421.6	46.0
0°-40°	5336.1	71.7
0°-60°	7071.1	95.1
0°-90°	7439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7439.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4070	4070	4070	4070	4070	
5°	3949	3984	4070	4171	4284	373
15°	3692	3871	4295	4564	4758	1041
25°	3342	3552	4105	4381	4533	1530
35°	2626	2786	3179	3366	3443	1624
45°	1654	1638	1486	1576	1595	1287
55°	988	840	335	261	253	895
65°	638	529	66	16	16	623
75°	288	233	23	8	4	311
85°	62	39	0	0	0	72
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°	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7
2.5°	4019.1	4026.9	3984.2	3972.5	4003.6	4015.2	4019.1	4007.4	4011.4	4026.9	4026.9
5°	3949.1	3956.8	3917.9	3906.2	3937.4	3945.3	3956.8	3953.0	3964.7	3988.0	3984.2
7.5°	3883.0	3894.7	3851.8	3836.3	3875.2	3894.7	3902.4	3902.4	3917.9	3949.1	3953.0
10°	3809.0	3824.6	3785.7	3777.8	3820.7	3840.1	3844.1	3851.8	3875.2	3917.9	3925.7
12.5°	3746.8	3762.3	3735.1	3723.4	3770.1	3789.5	3797.3	3812.9	3840.1	3894.7	3902.4
15°	3692.3	3704.0	3672.8	3665.1	3711.7	3735.1	3738.9	3762.3	3797.3	3859.6	3871.3
17.5°	3622.3	3630.0	3606.8	3599.0	3645.6	3668.9	3672.8	3700.0	3742.9	3805.2	3824.6
20°	3540.5	3548.4	3525.0	3517.3	3563.9	3591.1	3595.1	3618.4	3668.9	3735.1	3754.6
22.5°	3443.3	3458.9	3431.7	3423.8	3470.6	3493.9	3505.6	3525.0	3575.6	3641.7	3668.9
25°	3342.2	3342.2	3322.8	3318.8	3361.7	3388.9	3384.9	3412.1	3462.7	3529.0	3552.2
27.5°	3209.9	3205.9	3186.5	3182.7	3229.3	3252.7	3244.8	3272.2	3318.8	3384.9	3408.3
30°	3034.8	3042.6	3015.4	3007.5	3046.5	3085.4	3081.5	3108.7	3155.3	3217.6	3233.3
32.5°	2824.7	2832.4	2828.6	2816.9	2851.9	2871.3	2883.0	2902.5	2941.4	3007.5	3023.1
35°	2626.2	2614.5	2599.0	2599.0	2634.0	2665.1	2653.4	2676.8	2715.7	2781.8	2785.8
37.5°	2381.2	2377.2	2369.5	2361.7	2400.6	2408.4	2412.3	2427.8	2462.9	2517.3	2509.5
40°	2124.4	2128.2	2124.4	2108.7	2132.1	2163.3	2159.3	2167.2	2198.2	2237.1	2225.6
42.5°	1883.1	1883.1	1883.1	1867.6	1894.8	1910.4	1918.2	1914.2	1922.0	1957.1	1941.4
45°	1653.6	1657.4	1653.6	1649.7	1653.6	1661.4	1653.6	1649.7	1649.7	1661.4	1638.0
47.5°	1455.2	1455.2	1443.5	1431.8	1443.5	1447.3	1435.7	1424.0	1420.1	1416.3	1377.4
50°	1276.2	1272.2	1268.4	1249.0	1260.5	1264.5	1249.0	1241.1	1225.6	1206.1	1159.5
52.5°	1120.6	1116.7	1112.7	1093.3	1101.2	1105.0	1089.5	1073.8	1054.4	1038.9	980.5
55°	988.3	984.3	984.3	972.8	964.9	972.8	957.1	945.4	918.2	898.8	840.4
57.5°	875.4	875.4	867.6	855.9	859.9	859.9	844.4	828.7	805.3	782.1	735.4
60°	778.1	778.1	778.1	766.4	766.4	766.4	758.7	743.2	723.7	700.3	653.7
62.5°	700.3	700.3	696.4	684.8	688.6	688.6	680.9	665.4	645.9	630.3	583.6
65°	638.0	638.0	638.0	626.5	626.5	630.3	622.5	607.0	591.4	571.9	529.1
67.5°	560.2	556.4	556.4	548.5	552.5	556.4	548.5	537.0	517.5	505.8	466.9
70°	463.0	466.9	470.7	459.2	463.0	463.0	459.2	447.5	435.8	424.1	389.1
72.5°	377.4	377.4	373.5	369.7	369.7	373.5	365.7	354.0	346.3	338.5	311.2
75°	287.9	284.0	287.9	280.2	280.2	280.2	272.3	268.5	264.5	252.8	233.4
77.5°	210.1	206.2	206.2	198.4	202.4	202.4	198.4	190.7	182.8	179.0	163.3
80°	143.9	143.9	143.9	140.1	140.1	136.1	136.1	132.3	124.4	120.6	112.9
82.5°	97.2	97.2	97.2	93.4	93.4	93.4	89.5	85.5	81.7	77.8	70.0
85°	62.3	62.3	62.3	58.3	58.3	58.3	54.4	54.4	50.6	46.6	38.9
87.5°	35.0	35.0	35.0	31.1	31.1	31.1	31.1	31.1	27.2	23.4	19.4
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°	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7
2.5°	4054.1	3999.7	4034.6	4034.6	4023.1	4054.1	4073.7	4089.2	4085.2	4050.3	4046.3
5°	4023.1	3976.3	4015.2	4019.1	4007.4	4050.3	4077.5	4096.9	4100.9	4069.7	4073.7
7.5°	3999.7	3960.8	4011.4	4026.9	4023.1	4062.0	4093.1	4124.1	4139.8	4116.4	4120.3
10°	3988.0	3956.8	4011.4	4034.6	4038.6	4081.4	4128.1	4170.9	4190.4	4174.7	4186.4
12.5°	3972.5	3953.0	4015.2	4050.3	4065.8	4108.6	4167.0	4217.6	4248.7	4241.0	4264.2
15°	3956.8	3941.3	4015.2	4065.8	4085.2	4124.1	4190.4	4264.2	4299.3	4295.4	4326.5
17.5°	3917.9	3914.1	3991.9	4046.3	4073.7	4120.3	4182.5	4272.0	4307.1	4314.8	4353.7
20°	3855.8	3855.8	3941.3	3999.7	4030.8	4073.7	4151.5	4237.0	4279.9	4287.6	4330.5
22.5°	3770.1	3777.8	3859.6	3917.9	3964.7	3995.7	4077.5	4167.0	4205.9	4217.6	4264.2
25°	3657.3	3665.1	3742.9	3801.2	3851.8	3886.8	3964.7	4046.3	4093.1	4104.7	4139.8
27.5°	3509.5	3525.0	3599.0	3657.3	3700.0	3723.4	3805.2	3890.7	3925.7	3937.4	3972.5
30°	3338.3	3342.2	3416.1	3466.7	3509.5	3529.0	3599.0	3688.5	3715.7	3727.4	3777.8
32.5°	3128.1	3124.3	3194.4	3241.0	3276.0	3299.4	3373.2	3431.7	3458.9	3478.4	3505.6
35°	2875.3	2871.3	2921.9	2976.5	3003.7	3011.4	3085.4	3147.6	3163.2	3178.7	3213.8
37.5°	2591.3	2591.3	2634.0	2661.3	2692.3	2704.0	2739.1	2809.2	2836.4	2832.4	2859.6
40°	2291.7	2276.2	2307.2	2334.5	2342.3	2346.1	2381.2	2435.6	2455.0	2455.0	2474.4
42.5°	1976.5	1953.1	1957.1	1972.6	1980.3	1953.1	1976.5	2011.5	1999.8	2015.4	2019.4
45°	1641.9	1606.8	1591.3	1556.2	1564.1	1536.8	1521.3	1529.0	1525.2	1486.3	1494.1
47.5°	1369.5	1307.3	1280.0	1229.5	1217.8	1186.7	1167.3	1132.2	1101.2	1101.2	1081.6
50°	1140.1	1077.8	1023.2	964.9	945.4	918.2	875.4	828.7	805.3	782.1	762.6
52.5°	957.1	891.0	824.8	762.6	735.4	700.3	642.0	595.3	552.5	529.1	505.8
55°	809.3	735.4	665.4	599.1	564.2	529.1	470.7	416.3	365.7	334.6	315.1
57.5°	696.4	626.5	552.5	482.4	451.3	412.4	350.2	291.7	245.1	210.1	190.7
60°	614.8	544.7	478.6	404.6	373.5	334.6	268.5	213.9	167.3	136.1	112.9
62.5°	544.7	482.4	412.4	346.3	315.1	276.2	213.9	159.5	116.7	85.5	66.1
65°	494.1	431.8	373.5	307.4	280.2	241.3	182.8	132.3	93.4	66.1	46.6
67.5°	435.8	381.2	322.9	268.5	241.3	210.1	155.6	112.9	77.8	54.4	38.9
70°	365.7	322.9	272.3	221.8	202.4	175.0	128.4	93.4	62.3	42.8	31.1
72.5°	291.7	256.8	217.9	179.0	163.3	136.1	105.0	74.0	46.6	31.1	23.4
75°	221.8	194.5	163.3	136.1	120.6	105.0	77.8	54.4	35.0	23.4	15.5
77.5°	151.8	140.1	116.7	93.4	85.5	74.0	50.6	35.0	23.4	15.5	7.8
80°	105.0	93.4	77.8	62.3	54.4	46.6	31.1	23.4	11.7	7.8	3.9
82.5°	66.1	54.4	46.6	38.9	35.0	27.2	19.4	11.7	7.8	3.9	3.9
85°	35.0	31.1	27.2	19.4	19.4	15.5	11.7	7.8	3.9	0.0	0.0
87.5°	19.4	15.5	11.7	7.8	7.8	3.9	3.9	3.9	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°	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7
2.5°	4093.1	4093.1	4089.2	4135.8	4081.4	4135.8	4108.6	4135.8	4096.9	4093.1	4096.9
5°	4124.1	4135.8	4139.8	4182.5	4132.0	4198.1	4174.7	4198.1	4170.9	4178.7	4190.4
7.5°	4186.4	4205.9	4202.1	4256.5	4205.9	4279.9	4264.2	4299.3	4272.0	4279.9	4295.4
10°	4256.5	4279.9	4283.7	4338.2	4291.4	4380.9	4361.5	4400.4	4377.1	4388.8	4408.3
12.5°	4338.2	4365.4	4369.4	4431.5	4380.9	4474.4	4462.7	4501.6	4482.1	4493.8	4517.2
15°	4400.4	4439.3	4447.2	4509.3	4454.9	4552.2	4544.4	4595.0	4563.9	4583.3	4602.8
17.5°	4431.5	4466.6	4482.1	4540.5	4493.8	4591.1	4583.3	4626.2	4602.8	4622.2	4645.6
20°	4412.1	4454.9	4466.6	4525.0	4478.3	4575.6	4563.9	4606.7	4583.3	4598.8	4622.2
22.5°	4342.0	4384.9	4400.4	4454.9	4412.1	4501.6	4497.8	4536.7	4505.5	4525.0	4544.4
25°	4217.6	4264.2	4272.0	4322.6	4275.9	4369.4	4361.5	4404.3	4380.9	4392.6	4419.8
27.5°	4038.6	4093.1	4104.7	4147.5	4112.6	4190.4	4190.4	4225.3	4198.1	4198.1	4225.3
30°	3824.6	3879.0	3886.8	3921.9	3890.7	3960.8	3964.7	3999.7	3956.8	3980.2	3984.2
32.5°	3563.9	3599.0	3622.3	3653.4	3606.8	3696.2	3684.5	3711.7	3688.5	3688.5	3707.9
35°	3248.8	3291.6	3303.3	3342.2	3303.3	3373.2	3373.2	3388.9	3365.5	3365.5	3396.6
37.5°	2906.4	2937.6	2941.4	2980.3	2949.1	3007.5	3003.7	3015.4	2992.0	3007.5	3007.5
40°	2505.6	2529.0	2536.7	2556.2	2552.4	2595.1	2591.3	2599.0	2587.3	2591.3	2599.0
42.5°	2038.8	2069.8	2085.5	2101.0	2077.7	2136.1	2124.4	2136.1	2132.1	2136.1	2147.8
45°	1501.8	1525.2	1536.8	1540.7	1533.0	1567.9	1595.1	1571.9	1575.7	1567.9	1583.6
47.5°	1085.5	1089.5	1081.6	1105.0	1085.5	1101.2	1108.9	1112.7	1089.5	1085.5	1101.2
50°	743.2	762.6	735.4	747.0	743.2	758.7	750.9	754.9	731.5	743.2	735.4
52.5°	494.1	490.2	482.4	486.4	478.6	478.6	478.6	486.4	470.7	463.0	455.2
55°	299.6	291.7	276.2	272.3	272.3	276.2	268.5	260.7	260.7	256.8	256.8
57.5°	175.0	163.3	155.6	151.8	143.9	140.1	136.1	136.1	128.4	128.4	128.4
60°	97.2	85.5	77.8	70.0	70.0	66.1	62.3	58.3	58.3	58.3	54.4
62.5°	50.6	42.8	35.0	31.1	31.1	27.2	23.4	23.4	23.4	23.4	19.4
65°	35.0	27.2	23.4	19.4	19.4	15.5	15.5	15.5	15.5	15.5	15.5
67.5°	27.2	23.4	19.4	15.5	15.5	15.5	11.7	11.7	11.7	11.7	11.7
70°	23.4	15.5	15.5	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
72.5°	15.5	15.5	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
75°	11.7	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0
80°	3.9	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: P685180

CATALOG NUMBER: LX6C70D010 EX6709040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7
2.5°	4132.0	4128.1	4132.0	4139.8	4124.1	4170.9	4147.5	4170.9
5°	4221.5	4225.3	4229.3	4241.0	4221.5	4279.9	4248.7	4283.7
7.5°	4338.2	4342.0	4346.0	4357.7	4346.0	4404.3	4369.4	4400.4
10°	4458.9	4466.6	4466.6	4486.1	4474.4	4528.8	4505.5	4544.4
12.5°	4571.6	4579.4	4587.3	4598.8	4591.1	4649.4	4630.0	4661.1
15°	4661.1	4676.6	4680.6	4696.1	4688.3	4750.6	4727.2	4758.4
17.5°	4704.0	4719.5	4719.5	4738.9	4731.2	4797.3	4766.1	4801.2
20°	4680.6	4692.3	4696.1	4715.7	4707.8	4774.0	4742.9	4785.6
22.5°	4606.7	4610.5	4614.5	4633.9	4630.0	4688.3	4661.1	4688.3
25°	4470.4	4482.1	4478.3	4493.8	4493.8	4540.5	4509.3	4532.7
27.5°	4275.9	4287.6	4287.6	4307.1	4291.4	4338.2	4307.1	4342.0
30°	4038.6	4050.3	4042.5	4058.0	4042.5	4089.2	4065.8	4077.5
32.5°	3754.6	3754.6	3758.4	3762.3	3754.6	3797.3	3774.0	3797.3
35°	3416.1	3423.8	3427.8	3431.7	3423.8	3455.0	3427.8	3443.3
37.5°	3034.8	3054.3	3050.3	3054.3	3042.6	3081.5	3058.1	3066.0
40°	2626.2	2626.2	2622.3	2630.2	2618.5	2649.6	2634.0	2641.7
42.5°	2151.6	2163.3	2147.8	2167.2	2136.1	2178.8	2163.3	2151.6
45°	1614.7	1599.1	1595.1	1599.1	1587.4	1591.3	1603.0	1595.1
47.5°	1101.2	1101.2	1093.3	1081.6	1097.2	1101.2	1085.5	1085.5
50°	739.2	739.2	731.5	727.5	735.4	731.5	723.7	735.4
52.5°	470.7	455.2	455.2	463.0	455.2	447.5	459.2	451.3
55°	256.8	249.0	249.0	256.8	249.0	249.0	245.1	252.8
57.5°	124.4	128.4	124.4	124.4	124.4	124.4	120.6	124.4
60°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
62.5°	23.4	23.4	19.4	19.4	19.4	19.4	19.4	19.4
65°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
67.5°	11.7	11.7	11.7	11.7	11.7	15.5	11.7	11.7
70°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
72.5°	11.7	11.7	15.5	15.5	15.5	15.5	15.5	15.5
75°	7.8	7.8	7.8	3.9	3.9	3.9	3.9	3.9
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)