

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: P685250

Luminaire Tested: **LX6C80D010 EX6809035 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685250
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: LX6C80D010 EX6809035 6LCSWLI
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

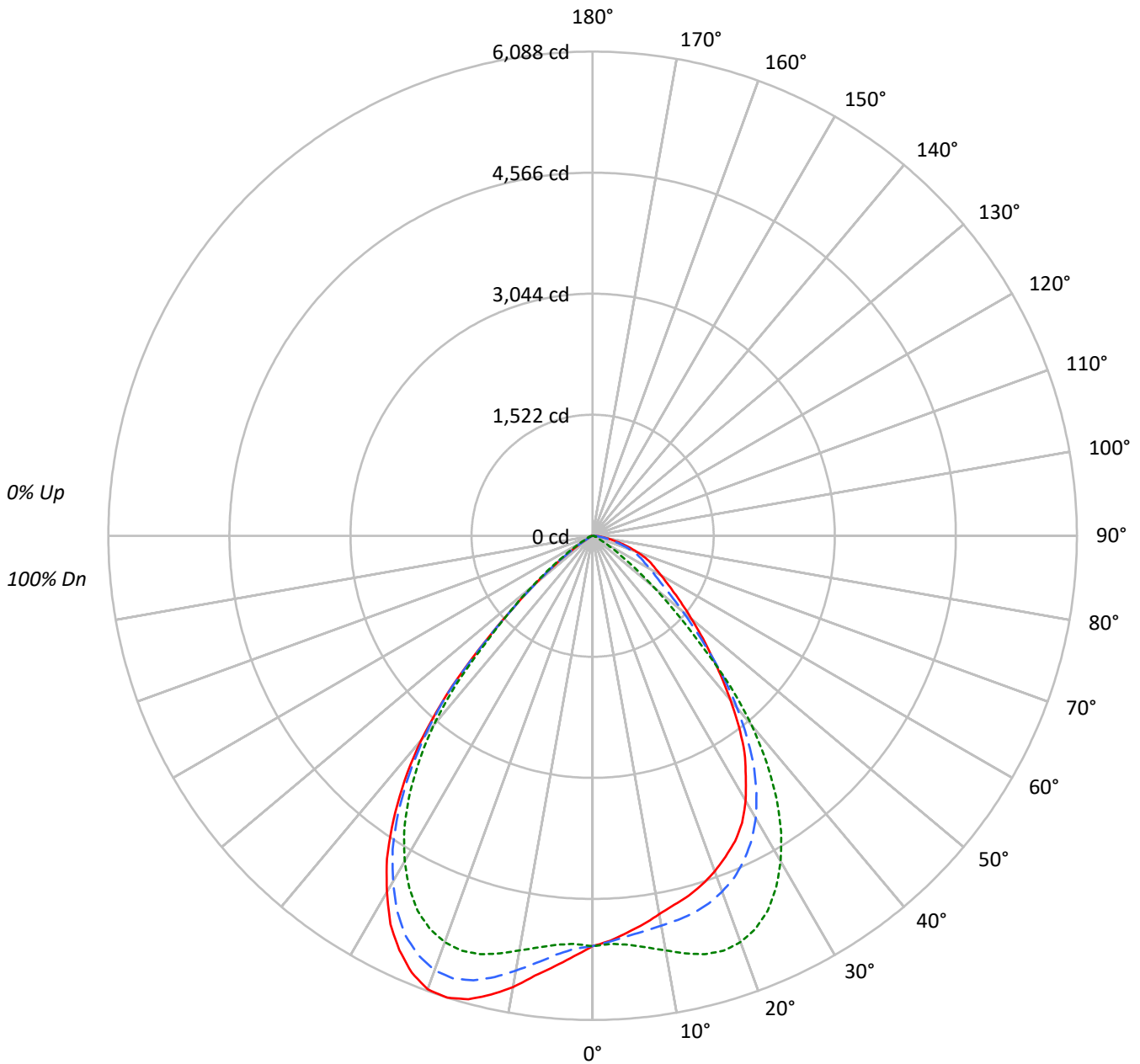
Lumens per Lamp: N/A
Luminaire Lumens: 9433.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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°	282905	282905	282905
5°	275566	283986	298915
10°	268866	294684	320775
15°	265722	309122	342442
20°	261910	317180	354015
25°	256351	314831	347663
30°	243601	299192	327291
35°	222867	269754	292200
40°	192775	222782	239728
45°	162567	146116	156815
50°	138017	84577	79528
55°	119776	40553	30642
60°	108182	18924	7565
65°	104940	10870	2555
70°	94102	8703	2372
75°	77331	6291	1059
80°	57615	3094	0
85°	49690	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.5	5.3
10°-20°	1519.1	16.1
20°-30°	2321.1	24.6
30°-40°	2427.7	25.7
40°-50°	1574.8	16.7
50°-60°	625.3	6.6
60°-70°	296.6	3.1
70°-80°	141.1	1.5
80°-90°	28.8	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°	4338.7	46.0
0°-40°	6766.4	71.7
0°-60°	8966.5	95.1
0°-90°	9433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9433.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5161	5161	5161	5161	5161	
5°	5008	5052	5161	5289	5432	473
15°	4682	4909	5447	5787	6034	1319
25°	4238	4504	5205	5555	5748	1941
35°	3330	3532	4031	4268	4366	2059
45°	2097	2077	1885	1998	2023	1632
55°	1253	1066	424	331	321	1136
65°	809	671	84	20	20	790
75°	365	296	30	10	5	394
85°	79	49	0	0	0	92
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°	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6
2.5°	5096.5	5106.3	5052.1	5037.3	5076.8	5091.4	5096.5	5081.6	5086.6	5106.3	5106.3
5°	5007.6	5017.5	4968.1	4953.3	4992.8	5002.8	5017.5	5012.6	5027.5	5057.0	5052.1
7.5°	4923.8	4938.6	4884.3	4864.7	4914.0	4938.6	4948.5	4948.5	4968.1	5007.6	5012.6
10°	4830.0	4849.8	4800.5	4790.5	4844.8	4869.5	4874.5	4884.3	4914.0	4968.1	4978.0
12.5°	4751.2	4770.8	4736.3	4721.5	4780.7	4805.3	4815.1	4835.0	4869.5	4938.6	4948.5
15°	4682.0	4696.8	4657.3	4647.5	4706.7	4736.3	4741.2	4770.8	4815.1	4894.1	4909.0
17.5°	4593.2	4603.0	4573.5	4563.7	4622.9	4652.3	4657.3	4691.8	4746.2	4825.2	4849.8
20°	4489.5	4499.5	4469.9	4460.0	4519.2	4553.7	4558.7	4588.4	4652.3	4736.3	4761.0
22.5°	4366.2	4386.1	4351.6	4341.6	4400.9	4430.4	4445.2	4469.9	4534.0	4617.8	4652.3
25°	4238.1	4238.1	4213.4	4208.4	4262.7	4297.2	4292.2	4326.7	4390.9	4474.9	4504.4
27.5°	4070.3	4065.3	4040.6	4035.8	4094.9	4124.6	4114.6	4149.3	4208.4	4292.2	4321.9
30°	3848.3	3858.1	3823.6	3813.6	3863.1	3912.5	3907.5	3941.9	4001.1	4080.1	4099.9
32.5°	3581.8	3591.7	3586.8	3572.0	3616.3	3641.0	3655.8	3680.5	3729.8	3813.6	3833.5
35°	3330.2	3315.4	3295.7	3295.7	3340.0	3379.5	3364.7	3394.4	3443.7	3527.5	3532.5
37.5°	3019.4	3014.4	3004.6	2994.7	3044.1	3053.9	3058.9	3078.6	3123.1	3192.0	3182.2
40°	2693.8	2698.6	2693.8	2673.9	2703.6	2743.1	2738.1	2748.1	2787.4	2836.8	2822.1
42.5°	2387.8	2387.8	2387.8	2368.2	2402.7	2422.5	2432.3	2427.3	2437.2	2481.7	2461.8
45°	2096.9	2101.7	2096.9	2091.9	2096.9	2106.7	2096.9	2091.9	2091.9	2106.7	2077.0
47.5°	1845.2	1845.2	1830.4	1815.6	1830.4	1835.2	1820.6	1805.8	1800.7	1795.9	1746.6
50°	1618.3	1613.3	1608.4	1583.8	1598.4	1603.4	1583.8	1573.8	1554.1	1529.5	1470.3
52.5°	1421.0	1416.0	1411.0	1386.3	1396.3	1401.1	1381.5	1361.6	1337.0	1317.3	1243.3
55°	1253.2	1248.2	1248.2	1233.5	1223.5	1233.5	1213.7	1198.8	1164.3	1139.7	1065.7
57.5°	1110.0	1110.0	1100.2	1085.3	1090.3	1090.3	1070.7	1050.9	1021.2	991.7	932.5
60°	986.7	986.7	986.7	971.9	971.9	971.9	962.0	942.4	917.7	888.0	828.9
62.5°	888.0	888.0	883.0	868.4	873.2	873.2	863.4	843.7	819.1	799.2	740.1
65°	809.0	809.0	809.0	794.4	794.4	799.2	789.4	769.7	749.9	725.2	670.9
67.5°	710.4	705.6	705.6	695.6	700.6	705.6	695.6	680.9	656.2	641.4	592.1
70°	587.1	592.1	596.9	582.3	587.1	587.1	582.3	567.4	552.6	537.8	493.4
72.5°	478.6	478.6	473.6	468.8	468.8	473.6	463.8	448.9	439.1	429.3	394.6
75°	365.1	360.1	365.1	355.3	355.3	355.3	345.3	340.5	335.4	320.6	296.0
77.5°	266.5	261.5	261.5	251.6	256.6	256.6	251.6	241.8	231.8	227.0	207.1
80°	182.5	182.5	182.5	177.6	177.6	172.6	172.6	167.8	157.8	153.0	143.2
82.5°	123.3	123.3	123.3	118.5	118.5	118.5	113.5	108.5	103.7	98.7	88.8
85°	79.0	79.0	79.0	74.0	74.0	74.0	69.0	69.0	64.2	59.2	49.3
87.5°	44.3	44.3	44.3	39.5	39.5	39.5	39.5	39.5	34.5	29.7	24.7
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°	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6
2.5°	5140.8	5071.8	5116.1	5116.1	5101.5	5140.8	5165.6	5185.3	5180.3	5135.9	5130.9
5°	5101.5	5042.1	5091.4	5096.5	5081.6	5135.9	5170.4	5195.1	5200.1	5160.6	5165.6
7.5°	5071.8	5022.5	5086.6	5106.3	5101.5	5150.8	5190.3	5229.6	5249.4	5219.8	5224.8
10°	5057.0	5017.5	5086.6	5116.1	5121.1	5175.4	5234.6	5288.9	5313.6	5293.8	5308.6
12.5°	5037.3	5012.6	5091.4	5135.9	5155.6	5209.9	5283.9	5348.1	5387.6	5377.8	5407.2
15°	5017.5	4997.8	5091.4	5155.6	5180.3	5229.6	5313.6	5407.2	5451.7	5446.7	5486.2
17.5°	4968.1	4963.3	5062.0	5130.9	5165.6	5224.8	5303.6	5417.1	5461.6	5471.4	5520.7
20°	4889.3	4889.3	4997.8	5071.8	5111.3	5165.6	5264.3	5372.7	5427.1	5436.9	5491.2
22.5°	4780.7	4790.5	4894.1	4968.1	5027.5	5066.8	5170.4	5283.9	5333.2	5348.1	5407.2
25°	4637.7	4647.5	4746.2	4820.2	4884.3	4928.6	5027.5	5130.9	5190.3	5204.9	5249.4
27.5°	4450.2	4469.9	4563.7	4637.7	4691.8	4721.5	4825.2	4933.6	4978.0	4992.8	5037.3
30°	4233.1	4238.1	4331.7	4395.9	4450.2	4474.9	4563.7	4677.2	4711.7	4726.5	4790.5
32.5°	3966.6	3961.8	4050.6	4109.8	4154.1	4183.7	4277.4	4351.6	4386.1	4410.7	4445.2
35°	3646.0	3641.0	3705.1	3774.3	3808.8	3818.6	3912.5	3991.3	4011.1	4030.8	4075.3
37.5°	3285.9	3285.9	3340.0	3374.7	3414.0	3428.8	3473.4	3562.2	3596.7	3591.7	3626.1
40°	2905.9	2886.3	2925.6	2960.3	2970.1	2974.9	3019.4	3088.4	3113.1	3113.1	3137.7
42.5°	2506.3	2476.6	2481.7	2501.3	2511.1	2476.6	2506.3	2550.6	2535.8	2555.6	2560.6
45°	2082.0	2037.5	2017.9	1973.4	1983.4	1948.7	1929.1	1938.9	1934.1	1884.7	1894.6
47.5°	1736.6	1657.8	1623.1	1559.1	1544.3	1504.8	1480.1	1435.6	1396.3	1396.3	1371.5
50°	1445.6	1366.6	1297.5	1223.5	1198.8	1164.3	1110.0	1050.9	1021.2	991.7	967.0
52.5°	1213.7	1129.8	1045.8	967.0	932.5	888.0	814.1	754.9	700.6	670.9	641.4
55°	1026.2	932.5	843.7	759.7	715.4	670.9	596.9	527.9	463.8	424.3	399.6
57.5°	883.0	794.4	700.6	611.7	572.2	522.9	444.1	369.9	310.8	266.5	241.8
60°	779.6	690.7	606.9	513.1	473.6	424.3	340.5	271.3	212.1	172.6	143.2
62.5°	690.7	611.7	522.9	439.1	399.6	350.3	271.3	202.3	148.0	108.5	83.8
65°	626.6	547.6	473.6	389.8	355.3	306.0	231.8	167.8	118.5	83.8	59.2
67.5°	552.6	483.4	409.4	340.5	306.0	266.5	197.3	143.2	98.7	69.0	49.3
70°	463.8	409.4	345.3	281.3	256.6	222.0	162.8	118.5	79.0	54.3	39.5
72.5°	369.9	325.6	276.3	227.0	207.1	172.6	133.1	93.8	59.2	39.5	29.7
75°	281.3	246.6	207.1	172.6	153.0	133.1	98.7	69.0	44.3	29.7	19.7
77.5°	192.5	177.6	148.0	118.5	108.5	93.8	64.2	44.3	29.7	19.7	9.8
80°	133.1	118.5	98.7	79.0	69.0	59.2	39.5	29.7	14.8	9.8	5.0
82.5°	83.8	69.0	59.2	49.3	44.3	34.5	24.7	14.8	9.8	5.0	5.0
85°	44.3	39.5	34.5	24.7	24.7	19.7	14.8	9.8	5.0	0.0	0.0
87.5°	24.7	19.7	14.8	9.8	9.8	5.0	5.0	5.0	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°	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6
2.5°	5190.3	5190.3	5185.3	5244.4	5175.4	5244.4	5209.9	5244.4	5195.1	5190.3	5195.1
5°	5229.6	5244.4	5249.4	5303.6	5239.6	5323.4	5293.8	5323.4	5288.9	5298.8	5313.6
7.5°	5308.6	5333.2	5328.4	5397.4	5333.2	5427.1	5407.2	5451.7	5417.1	5427.1	5446.7
10°	5397.4	5427.1	5431.9	5501.1	5441.7	5555.2	5530.5	5579.9	5550.4	5565.2	5589.9
12.5°	5501.1	5535.6	5540.6	5619.4	5555.2	5673.7	5658.9	5708.2	5683.5	5698.4	5728.0
15°	5579.9	5629.2	5639.2	5718.0	5649.0	5772.4	5762.5	5826.7	5787.2	5811.9	5836.5
17.5°	5619.4	5663.9	5683.5	5757.5	5698.4	5821.7	5811.9	5866.2	5836.5	5861.2	5890.8
20°	5594.7	5649.0	5663.9	5737.9	5678.7	5802.0	5787.2	5841.5	5811.9	5831.5	5861.2
22.5°	5505.9	5560.2	5579.9	5649.0	5594.7	5708.2	5703.4	5752.7	5713.2	5737.9	5762.5
25°	5348.1	5407.2	5417.1	5481.2	5422.1	5540.6	5530.5	5584.9	5555.2	5570.0	5604.5
27.5°	5121.1	5190.3	5204.9	5259.3	5214.9	5313.6	5313.6	5357.9	5323.4	5323.4	5357.9
30°	4849.8	4918.8	4928.6	4973.1	4933.6	5022.5	5027.5	5071.8	5017.5	5047.1	5052.1
32.5°	4519.2	4563.7	4593.2	4632.7	4573.5	4687.0	4672.2	4706.7	4677.2	4677.2	4701.8
35°	4119.6	4173.9	4188.8	4238.1	4188.8	4277.4	4277.4	4297.2	4267.6	4267.6	4307.1
37.5°	3685.5	3725.0	3729.8	3779.1	3739.6	3813.6	3808.8	3823.6	3794.0	3813.6	3813.6
40°	3177.2	3206.9	3216.7	3241.4	3236.6	3290.7	3285.9	3295.7	3280.9	3285.9	3295.7
42.5°	2585.3	2624.6	2644.5	2664.1	2634.6	2708.6	2693.8	2708.6	2703.6	2708.6	2723.5
45°	1904.4	1934.1	1948.7	1953.7	1943.9	1988.2	2022.7	1993.2	1998.0	1988.2	2008.1
47.5°	1376.5	1381.5	1371.5	1401.1	1376.5	1396.3	1406.1	1411.0	1381.5	1376.5	1396.3
50°	942.4	967.0	932.5	947.2	942.4	962.0	952.2	957.2	927.5	942.4	932.5
52.5°	626.6	621.6	611.7	616.8	606.9	606.9	606.9	616.8	596.9	587.1	577.3
55°	380.0	369.9	350.3	345.3	345.3	350.3	340.5	330.6	330.6	325.6	325.6
57.5°	222.0	207.1	197.3	192.5	182.5	177.6	172.6	172.6	162.8	162.8	162.8
60°	123.3	108.5	98.7	88.8	88.8	83.8	79.0	74.0	74.0	74.0	69.0
62.5°	64.2	54.3	44.3	39.5	39.5	34.5	29.7	29.7	29.7	29.7	24.7
65°	44.3	34.5	29.7	24.7	24.7	19.7	19.7	19.7	19.7	19.7	19.7
67.5°	34.5	29.7	24.7	19.7	19.7	19.7	14.8	14.8	14.8	14.8	14.8
70°	29.7	19.7	19.7	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
72.5°	19.7	19.7	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
75°	14.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0
80°	5.0	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: P685250

CATALOG NUMBER: LX6C80D010 EX6809035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6	5160.6
2.5°	5239.6	5234.6	5239.6	5249.4	5229.6	5288.9	5259.3	5288.9
5°	5353.1	5357.9	5362.9	5377.8	5353.1	5427.1	5387.6	5431.9
7.5°	5501.1	5505.9	5510.9	5525.7	5510.9	5584.9	5540.6	5579.9
10°	5654.0	5663.9	5663.9	5688.5	5673.7	5742.7	5713.2	5762.5
12.5°	5797.0	5806.8	5816.9	5831.5	5821.7	5895.7	5871.0	5910.5
15°	5910.5	5930.2	5935.2	5954.8	5945.0	6024.0	5994.3	6033.8
17.5°	5964.8	5984.5	5984.5	6009.2	5999.3	6083.1	6043.6	6088.1
20°	5935.2	5950.0	5954.8	5979.7	5969.7	6053.7	6014.2	6068.3
22.5°	5841.5	5846.3	5851.3	5876.0	5871.0	5945.0	5910.5	5945.0
25°	5668.7	5683.5	5678.7	5698.4	5698.4	5757.5	5718.0	5747.7
27.5°	5422.1	5436.9	5436.9	5461.6	5441.7	5501.1	5461.6	5505.9
30°	5121.1	5135.9	5126.1	5145.8	5126.1	5185.3	5155.6	5170.4
32.5°	4761.0	4761.0	4765.8	4770.8	4761.0	4815.1	4785.7	4815.1
35°	4331.7	4341.6	4346.6	4351.6	4341.6	4381.0	4346.6	4366.2
37.5°	3848.3	3873.0	3868.0	3873.0	3858.1	3907.5	3877.8	3887.8
40°	3330.2	3330.2	3325.2	3335.2	3320.4	3359.9	3340.0	3349.9
42.5°	2728.3	2743.1	2723.5	2748.1	2708.6	2762.8	2743.1	2728.3
45°	2047.6	2027.7	2022.7	2027.7	2012.9	2017.9	2032.7	2022.7
47.5°	1396.3	1396.3	1386.3	1371.5	1391.3	1396.3	1376.5	1376.5
50°	937.4	937.4	927.5	922.5	932.5	927.5	917.7	932.5
52.5°	596.9	577.3	577.3	587.1	577.3	567.4	582.3	572.2
55°	325.6	315.8	315.8	325.6	315.8	315.8	310.8	320.6
57.5°	157.8	162.8	157.8	157.8	157.8	157.8	153.0	157.8
60°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
62.5°	29.7	29.7	24.7	24.7	24.7	24.7	24.7	24.7
65°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
67.5°	14.8	14.8	14.8	14.8	14.8	19.7	14.8	14.8
70°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
72.5°	14.8	14.8	19.7	19.7	19.7	19.7	19.7	19.7
75°	9.8	9.8	9.8	5.0	5.0	5.0	5.0	5.0
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)