

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: P685260

Luminaire Tested: **LX6C80D010 EX6809050 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685260
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 EX6809050 6LCSWLI
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

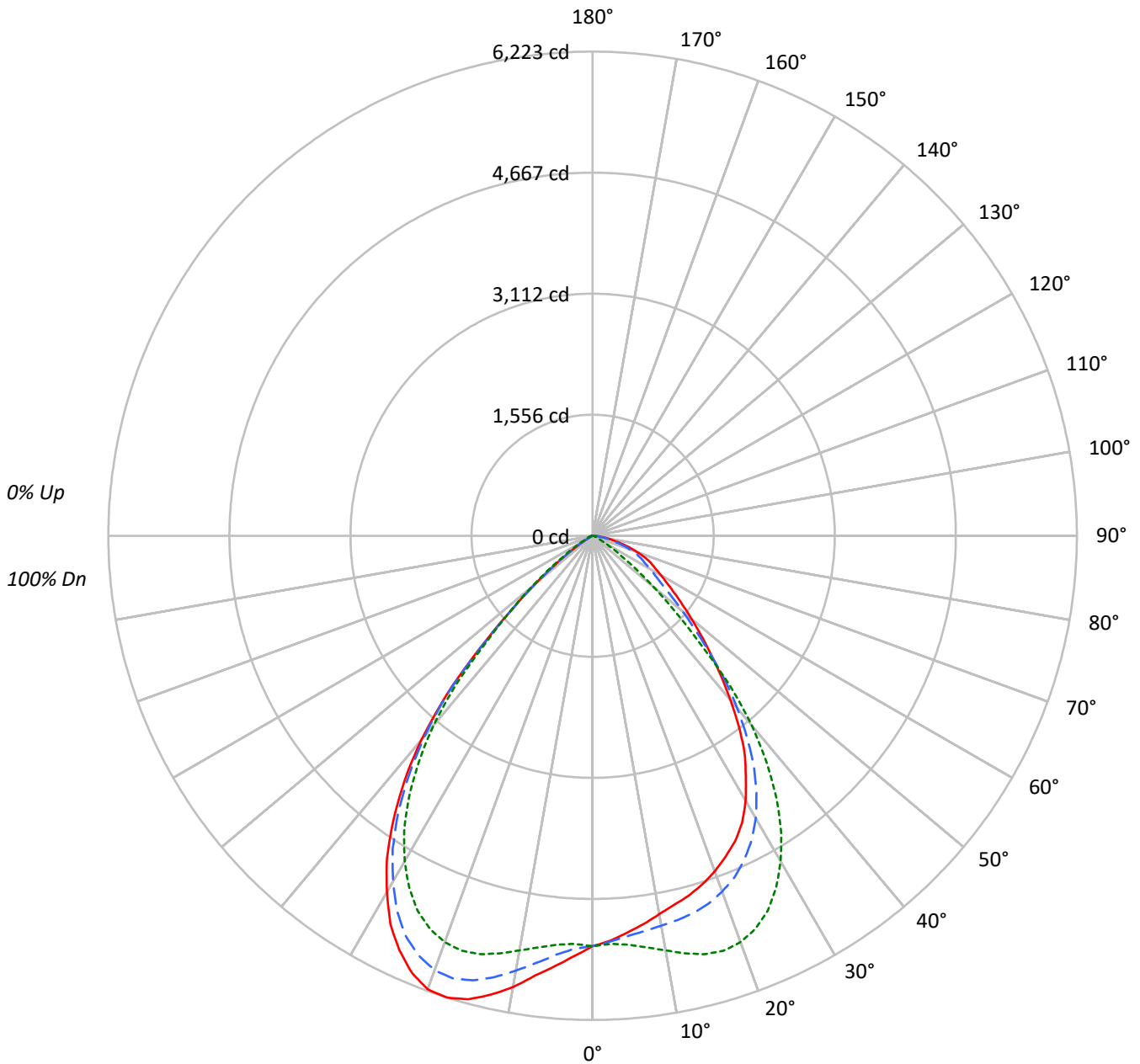
Lumens per Lamp: N/A
Luminaire Lumens: 9642.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	289176	289176	289176
5°	281674	290281	305535
10°	274822	301208	327883
15°	271608	315972	350030
20°	267715	324210	361861
25°	262031	321811	355363
30°	249000	305819	334545
35°	227806	275730	298678
40°	197048	227712	245038
45°	166165	149357	160288
50°	141070	86453	81294
55°	122423	41451	31320
60°	110583	19352	7730
65°	107275	11117	2607
70°	96186	8896	2436
75°	79047	6418	1080
80°	58877	3157	0
85°	50760	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.5	5.3
10°-20°	1552.8	16.1
20°-30°	2372.5	24.6
30°-40°	2481.5	25.7
40°-50°	1609.7	16.7
50°-60°	639.1	6.6
60°-70°	303.2	3.1
70°-80°	144.2	1.5
80°-90°	29.4	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°	4434.9	46.0
0°-40°	6916.3	71.7
0°-60°	9165.2	95.1
0°-90°	9642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9642.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5275	5275	5275	5275	5275	
5°	5119	5164	5275	5406	5552	483
15°	4786	5018	5567	5915	6168	1349
25°	4332	4604	5320	5678	5875	1984
35°	3404	3611	4120	4362	4463	2105
45°	2143	2123	1926	2042	2068	1668
55°	1281	1089	434	338	328	1161
65°	827	686	86	20	20	808
75°	373	302	30	10	5	403
85°	81	50	0	0	0	94
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°	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0
2.5°	5209.4	5219.4	5164.1	5148.9	5189.3	5204.3	5209.4	5194.2	5199.3	5219.4	5219.4
5°	5118.6	5128.6	5078.2	5063.0	5103.4	5113.7	5128.6	5123.7	5138.9	5169.0	5164.1
7.5°	5032.9	5048.1	4992.5	4972.4	5022.9	5048.1	5058.1	5058.1	5078.2	5118.6	5123.7
10°	4937.0	4957.3	4906.9	4896.6	4952.2	4977.4	4982.5	4992.5	5022.9	5078.2	5088.3
12.5°	4856.4	4876.5	4841.3	4826.1	4886.6	4911.8	4921.8	4942.1	4977.4	5048.1	5058.1
15°	4785.7	4800.9	4760.5	4750.5	4811.0	4841.3	4846.2	4876.5	4921.8	5002.6	5017.7
17.5°	4695.0	4705.0	4674.9	4664.8	4725.3	4755.4	4760.5	4795.8	4851.3	4932.1	4957.3
20°	4589.0	4599.2	4568.9	4558.9	4619.3	4654.6	4659.7	4690.0	4755.4	4841.3	4866.5
22.5°	4463.0	4483.2	4448.0	4437.7	4498.4	4528.5	4543.7	4568.9	4634.5	4720.2	4755.4
25°	4332.0	4332.0	4306.8	4301.7	4357.2	4392.4	4387.3	4422.6	4488.2	4574.0	4604.2
27.5°	4160.4	4155.3	4130.1	4125.2	4185.7	4216.0	4205.7	4241.2	4301.7	4387.3	4417.7
30°	3933.6	3943.6	3908.4	3898.1	3948.7	3999.1	3994.0	4029.3	4089.7	4170.5	4190.8
32.5°	3661.2	3671.2	3666.3	3651.1	3696.4	3721.7	3736.8	3762.0	3812.4	3898.1	3918.4
35°	3404.0	3388.8	3368.7	3368.7	3414.0	3454.4	3439.2	3469.6	3520.0	3605.7	3610.8
37.5°	3086.3	3081.2	3071.1	3061.1	3111.5	3121.6	3126.7	3146.8	3192.3	3262.8	3252.7
40°	2753.5	2758.4	2753.5	2733.2	2763.5	2803.9	2798.8	2809.0	2849.2	2899.6	2884.6
42.5°	2440.7	2440.7	2440.7	2420.6	2455.9	2476.2	2486.2	2481.1	2491.1	2536.6	2516.4
45°	2143.3	2148.3	2143.3	2138.2	2143.3	2153.4	2143.3	2138.2	2138.2	2153.4	2123.1
47.5°	1886.1	1886.1	1871.0	1855.8	1871.0	1875.9	1860.9	1845.8	1840.6	1835.7	1785.3
50°	1654.1	1649.0	1644.1	1618.9	1633.9	1639.0	1618.9	1608.6	1588.6	1563.3	1502.9
52.5°	1452.5	1447.3	1442.2	1417.0	1427.3	1432.2	1412.1	1391.8	1366.6	1346.5	1270.9
55°	1280.9	1275.8	1275.8	1260.8	1250.6	1260.8	1240.6	1225.4	1190.1	1164.9	1089.3
57.5°	1134.6	1134.6	1124.6	1109.4	1114.5	1114.5	1094.4	1074.1	1043.8	1013.7	953.2
60°	1008.6	1008.6	1008.6	993.4	993.4	993.4	983.3	963.3	938.0	907.7	847.3
62.5°	907.7	907.7	902.6	887.6	892.6	892.6	882.5	862.4	837.2	816.9	756.5
65°	827.0	827.0	827.0	812.0	812.0	816.9	806.9	786.8	766.5	741.3	685.8
67.5°	726.1	721.2	721.2	711.0	716.1	721.2	711.0	696.0	670.8	655.6	605.2
70°	600.1	605.2	610.1	595.2	600.1	600.1	595.2	580.0	564.8	549.7	504.4
72.5°	489.2	489.2	484.1	479.2	479.2	484.1	474.0	458.9	448.8	438.8	403.3
75°	373.2	368.1	373.2	363.2	363.2	363.2	352.9	348.0	342.9	327.7	302.5
77.5°	272.4	267.3	267.3	257.2	262.3	262.3	257.2	247.2	236.9	232.0	211.7
80°	186.5	186.5	186.5	181.6	181.6	176.5	176.5	171.5	161.3	156.4	146.3
82.5°	126.0	126.0	126.0	121.1	121.1	121.1	116.0	110.9	106.0	100.8	90.8
85°	80.7	80.7	80.7	75.6	75.6	75.6	70.5	70.5	65.6	60.5	50.4
87.5°	45.3	45.3	45.3	40.4	40.4	40.4	40.4	40.4	35.3	30.3	25.2
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°	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0
2.5°	5254.7	5184.2	5229.5	5229.5	5214.5	5254.7	5280.1	5300.2	5295.0	5249.7	5244.6
5°	5214.5	5153.8	5204.3	5209.4	5194.2	5249.7	5285.0	5310.2	5315.3	5275.0	5280.1
7.5°	5184.2	5133.7	5199.3	5219.4	5214.5	5264.9	5305.3	5345.5	5365.7	5335.4	5340.5
10°	5169.0	5128.6	5199.3	5229.5	5234.6	5290.1	5350.6	5406.1	5431.3	5411.0	5426.2
12.5°	5148.9	5123.7	5204.3	5249.7	5269.8	5325.4	5401.0	5466.6	5506.9	5496.9	5527.0
15°	5128.6	5108.5	5204.3	5269.8	5295.0	5345.5	5431.3	5527.0	5572.5	5567.4	5607.8
17.5°	5078.2	5073.3	5174.1	5244.6	5280.1	5340.5	5421.1	5537.1	5582.6	5592.6	5643.0
20°	4997.7	4997.7	5108.5	5184.2	5224.5	5280.1	5380.9	5491.8	5547.3	5557.4	5612.9
22.5°	4886.6	4896.6	5002.6	5078.2	5138.9	5179.0	5285.0	5401.0	5451.4	5466.6	5527.0
25°	4740.4	4750.5	4851.3	4927.0	4992.5	5037.8	5138.9	5244.6	5305.3	5320.3	5365.7
27.5°	4548.8	4568.9	4664.8	4740.4	4795.8	4826.1	4932.1	5043.0	5088.3	5103.4	5148.9
30°	4326.9	4332.0	4427.7	4493.3	4548.8	4574.0	4664.8	4780.8	4816.1	4831.2	4896.6
32.5°	4054.5	4049.6	4140.4	4200.8	4246.1	4276.4	4372.2	4448.0	4483.2	4508.4	4543.7
35°	3726.8	3721.7	3787.2	3857.9	3893.2	3903.2	3999.1	4079.7	4100.0	4120.1	4165.6
37.5°	3358.7	3358.7	3414.0	3449.5	3489.7	3504.8	3550.3	3641.1	3676.4	3671.2	3706.5
40°	2970.3	2950.2	2990.4	3025.8	3035.9	3040.8	3086.3	3156.8	3182.0	3182.0	3207.2
42.5°	2561.8	2531.5	2536.6	2556.7	2566.8	2531.5	2561.8	2607.1	2592.0	2612.3	2617.4
45°	2128.2	2082.7	2062.6	2017.1	2027.3	1991.9	1971.8	1981.8	1976.9	1926.5	1936.5
47.5°	1775.1	1694.5	1659.1	1593.7	1578.5	1538.1	1512.9	1467.4	1427.3	1427.3	1401.9
50°	1477.7	1396.9	1326.2	1250.6	1225.4	1190.1	1134.6	1074.1	1043.8	1013.7	988.5
52.5°	1240.6	1154.9	1069.0	988.5	953.2	907.7	832.1	771.6	716.1	685.8	655.6
55°	1048.9	953.2	862.4	776.6	731.3	685.8	610.1	539.6	474.0	433.7	408.5
57.5°	902.6	812.0	716.1	625.3	584.9	534.5	454.0	378.1	317.7	272.4	247.2
60°	796.8	706.0	620.4	524.5	484.1	433.7	348.0	277.3	216.8	176.5	146.3
62.5°	706.0	625.3	534.5	448.8	408.5	358.0	277.3	206.8	151.3	110.9	85.7
65°	640.5	559.7	484.1	398.4	363.2	312.7	236.9	171.5	121.1	85.7	60.5
67.5°	564.8	494.1	418.5	348.0	312.7	272.4	201.7	146.3	100.8	70.5	50.4
70°	474.0	418.5	352.9	287.5	262.3	226.9	166.4	121.1	80.7	55.5	40.4
72.5°	378.1	332.8	282.4	232.0	211.7	176.5	136.1	95.9	60.5	40.4	30.3
75°	287.5	252.1	211.7	176.5	156.4	136.1	100.8	70.5	45.3	30.3	20.1
77.5°	196.7	181.6	151.3	121.1	110.9	95.9	65.6	45.3	30.3	20.1	10.0
80°	136.1	121.1	100.8	80.7	70.5	60.5	40.4	30.3	15.2	10.0	5.1
82.5°	85.7	70.5	60.5	50.4	45.3	35.3	25.2	15.2	10.0	5.1	5.1
85°	45.3	40.4	35.3	25.2	25.2	20.1	15.2	10.0	5.1	0.0	0.0
87.5°	25.2	20.1	15.2	10.0	10.0	5.1	5.1	5.1	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°	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0
2.5°	5305.3	5305.3	5300.2	5360.6	5290.1	5360.6	5325.4	5360.6	5310.2	5305.3	5310.2
5°	5345.5	5360.6	5365.7	5421.1	5355.7	5441.4	5411.0	5441.4	5406.1	5416.2	5431.3
7.5°	5426.2	5451.4	5446.5	5517.0	5451.4	5547.3	5527.0	5572.5	5537.1	5547.3	5567.4
10°	5517.0	5547.3	5552.2	5622.9	5562.3	5678.3	5653.1	5703.5	5673.4	5688.5	5713.7
12.5°	5622.9	5658.2	5663.3	5743.9	5678.3	5799.4	5784.2	5834.7	5809.5	5824.6	5854.9
15°	5703.5	5753.9	5764.2	5844.7	5774.2	5900.2	5890.2	5955.8	5915.4	5940.6	5965.8
17.5°	5743.9	5789.4	5809.5	5885.1	5824.6	5950.7	5940.6	5996.2	5965.8	5991.0	6021.4
20°	5718.7	5774.2	5789.4	5865.0	5804.5	5930.6	5915.4	5970.9	5940.6	5960.7	5991.0
22.5°	5627.9	5683.4	5703.5	5774.2	5718.7	5834.7	5829.7	5880.2	5839.8	5865.0	5890.2
25°	5466.6	5527.0	5537.1	5602.7	5542.2	5663.3	5653.1	5708.6	5678.3	5693.5	5728.7
27.5°	5234.6	5305.3	5320.3	5375.8	5330.5	5431.3	5431.3	5476.6	5441.4	5441.4	5476.6
30°	4957.3	5027.8	5037.8	5083.3	5043.0	5133.7	5138.9	5184.2	5128.6	5159.0	5164.1
32.5°	4619.3	4664.8	4695.0	4735.3	4674.9	4790.9	4775.7	4811.0	4780.8	4780.8	4806.0
35°	4210.9	4266.4	4281.6	4332.0	4281.6	4372.2	4372.2	4392.4	4362.1	4362.1	4402.5
37.5°	3767.1	3807.5	3812.4	3862.9	3822.5	3898.1	3893.2	3908.4	3878.0	3898.1	3898.1
40°	3247.6	3277.9	3288.0	3313.2	3308.3	3363.6	3358.7	3368.7	3353.6	3358.7	3368.7
42.5°	2642.6	2682.8	2703.1	2723.1	2693.0	2768.6	2753.5	2768.6	2763.5	2768.6	2783.8
45°	1946.6	1976.9	1991.9	1997.0	1987.0	2032.3	2067.5	2037.4	2042.3	2032.3	2052.5
47.5°	1407.0	1412.1	1401.9	1432.2	1407.0	1427.3	1437.3	1442.2	1412.1	1407.0	1427.3
50°	963.3	988.5	953.2	968.2	963.3	983.3	973.3	978.4	948.1	963.3	953.2
52.5°	640.5	635.3	625.3	630.4	620.4	620.4	620.4	630.4	610.1	600.1	590.0
55°	388.4	378.1	358.0	352.9	352.9	358.0	348.0	338.0	338.0	332.8	332.8
57.5°	226.9	211.7	201.7	196.7	186.5	181.6	176.5	176.5	166.4	166.4	166.4
60°	126.0	110.9	100.8	90.8	90.8	85.7	80.7	75.6	75.6	75.6	70.5
62.5°	65.6	55.5	45.3	40.4	40.4	35.3	30.3	30.3	30.3	30.3	25.2
65°	45.3	35.3	30.3	25.2	25.2	20.1	20.1	20.1	20.1	20.1	20.1
67.5°	35.3	30.3	25.2	20.1	20.1	20.1	15.2	15.2	15.2	15.2	15.2
70°	30.3	20.1	20.1	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
72.5°	20.1	20.1	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
75°	15.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	0.0	0.0	0.0	0.0	0.0
80°	5.1	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: P685260

CATALOG NUMBER: LX6C80D010 EX6809050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0
2.5°	5355.7	5350.6	5355.7	5365.7	5345.5	5406.1	5375.8	5406.1
5°	5471.7	5476.6	5481.7	5496.9	5471.7	5547.3	5506.9	5552.2
7.5°	5622.9	5627.9	5633.0	5648.2	5633.0	5708.6	5663.3	5703.5
10°	5779.3	5789.4	5789.4	5814.6	5799.4	5869.9	5839.8	5890.2
12.5°	5925.5	5935.5	5945.7	5960.7	5950.7	6026.3	6001.1	6041.5
15°	6041.5	6061.5	6066.7	6086.8	6076.7	6157.5	6127.1	6167.5
17.5°	6097.0	6117.1	6117.1	6142.3	6132.2	6217.9	6177.5	6223.0
20°	6066.7	6081.8	6086.8	6112.2	6101.9	6187.8	6147.4	6202.8
22.5°	5970.9	5975.9	5981.0	6006.2	6001.1	6076.7	6041.5	6076.7
25°	5794.3	5809.5	5804.5	5824.6	5824.6	5885.1	5844.7	5875.0
27.5°	5542.2	5557.4	5557.4	5582.6	5562.3	5622.9	5582.6	5627.9
30°	5234.6	5249.7	5239.7	5259.8	5239.7	5300.2	5269.8	5285.0
32.5°	4866.5	4866.5	4871.4	4876.5	4866.5	4921.8	4891.7	4921.8
35°	4427.7	4437.7	4442.9	4448.0	4437.7	4478.1	4442.9	4463.0
37.5°	3933.6	3958.8	3953.7	3958.8	3943.6	3994.0	3963.7	3973.9
40°	3404.0	3404.0	3398.9	3409.1	3393.9	3434.3	3414.0	3424.1
42.5°	2788.7	2803.9	2783.8	2809.0	2768.6	2824.0	2803.9	2788.7
45°	2092.9	2072.6	2067.5	2072.6	2057.5	2062.6	2077.8	2067.5
47.5°	1427.3	1427.3	1417.0	1401.9	1422.1	1427.3	1407.0	1407.0
50°	958.1	958.1	948.1	943.0	953.2	948.1	938.0	953.2
52.5°	610.1	590.0	590.0	600.1	590.0	580.0	595.2	584.9
55°	332.8	322.8	322.8	332.8	322.8	322.8	317.7	327.7
57.5°	161.3	166.4	161.3	161.3	161.3	161.3	156.4	161.3
60°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
62.5°	30.3	30.3	25.2	25.2	25.2	25.2	25.2	25.2
65°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
67.5°	15.2	15.2	15.2	15.2	15.2	20.1	15.2	15.2
70°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
72.5°	15.2	15.2	20.1	20.1	20.1	20.1	20.1	20.1
75°	10.0	10.0	10.0	5.1	5.1	5.1	5.1	5.1
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)