

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: P685245

Luminaire Tested: **LX6C80D010 EX6809030 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685245
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 EX6809030 6LCSWLI
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

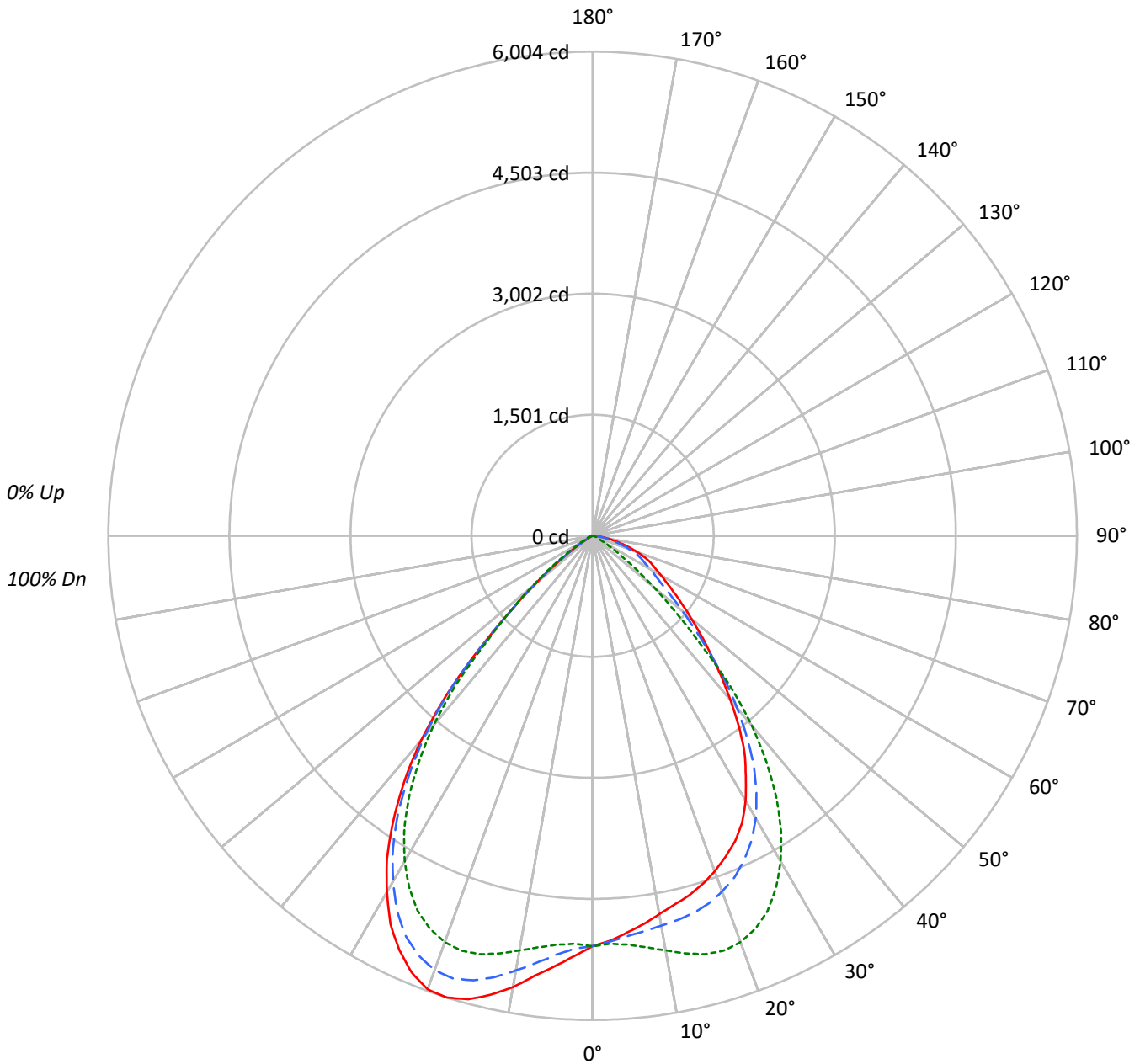
Lumens per Lamp: N/A
Luminaire Lumens: 9302.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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°	278974	278974	278974
5°	271742	280040	294766
10°	265131	290587	316321
15°	262033	304831	337686
20°	258276	312776	349097
25°	252789	310457	342836
30°	240221	295039	322746
35°	219769	266006	288144
40°	190099	219683	236393
45°	160311	144092	154636
50°	136098	83400	78428
55°	118113	39989	30221
60°	106680	18661	7456
65°	103487	10727	2516
70°	92788	8591	2340
75°	76251	6206	1038
80°	56794	3062	0
85°	48998	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.5	5.3
10°-20°	1498.0	16.1
20°-30°	2288.9	24.6
30°-40°	2394.0	25.7
40°-50°	1553.0	16.7
50°-60°	616.6	6.6
60°-70°	292.5	3.1
70°-80°	139.1	1.5
80°-90°	28.4	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°	4278.5	46.0
0°-40°	6672.4	71.7
0°-60°	8842.0	95.1
0°-90°	9302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9302.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5089	5089	5089	5089	5089	
5°	4938	4982	5089	5216	5356	466
15°	4617	4841	5371	5707	5950	1301
25°	4179	4442	5133	5478	5668	1914
35°	3284	3483	3975	4208	4306	2031
45°	2068	2048	1859	1970	1995	1609
55°	1236	1051	418	326	316	1120
65°	798	662	83	19	19	779
75°	360	292	29	10	5	388
85°	78	49	0	0	0	91
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°	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9
2.5°	5025.7	5035.4	4982.0	4967.3	5006.3	5020.7	5025.7	5011.0	5016.0	5035.4	5035.4
5°	4938.1	4947.8	4899.1	4884.5	4923.5	4933.3	4947.8	4943.0	4957.7	4986.7	4982.0
7.5°	4855.4	4870.1	4816.5	4797.1	4845.7	4870.1	4879.8	4879.8	4899.1	4938.1	4943.0
10°	4762.9	4782.5	4733.8	4724.0	4777.5	4801.9	4806.8	4816.5	4845.7	4899.1	4908.8
12.5°	4685.2	4704.6	4670.6	4655.9	4714.3	4738.6	4748.3	4767.8	4801.9	4870.1	4879.8
15°	4617.0	4631.6	4592.7	4583.0	4641.3	4670.6	4675.3	4704.6	4748.3	4826.2	4840.8
17.5°	4529.4	4539.1	4510.0	4500.3	4558.7	4587.7	4592.7	4626.7	4680.3	4758.2	4782.5
20°	4427.2	4437.1	4407.8	4398.1	4456.4	4490.4	4495.4	4524.6	4587.7	4670.6	4694.9
22.5°	4305.6	4325.1	4291.1	4281.3	4339.8	4368.8	4383.5	4407.8	4471.1	4553.7	4587.7
25°	4179.2	4179.2	4154.9	4150.0	4203.5	4237.6	4232.6	4266.6	4329.9	4412.7	4441.8
27.5°	4013.7	4008.8	3984.5	3979.7	4038.1	4067.3	4057.4	4091.6	4150.0	4232.6	4261.9
30°	3794.9	3804.5	3770.5	3760.7	3809.5	3858.1	3853.2	3887.2	3945.5	4023.4	4043.0
32.5°	3532.1	3541.8	3537.0	3522.4	3566.1	3590.4	3605.0	3629.4	3678.0	3760.7	3780.2
35°	3283.9	3269.3	3249.9	3249.9	3293.6	3332.6	3318.0	3347.2	3395.9	3478.5	3483.4
37.5°	2977.5	2972.5	2962.9	2953.2	3001.8	3011.5	3016.4	3035.8	3079.7	3147.7	3138.0
40°	2656.4	2661.1	2656.4	2636.8	2666.1	2705.0	2700.1	2710.0	2748.7	2797.4	2782.9
42.5°	2354.7	2354.7	2354.7	2335.3	2369.3	2388.9	2398.6	2393.6	2403.3	2447.2	2427.6
45°	2067.8	2072.5	2067.8	2062.8	2067.8	2077.5	2067.8	2062.8	2062.8	2077.5	2048.2
47.5°	1819.6	1819.6	1805.0	1790.4	1805.0	1809.7	1795.3	1780.7	1775.7	1771.0	1722.3
50°	1595.8	1590.9	1586.1	1561.8	1576.2	1581.2	1561.8	1551.9	1532.5	1508.2	1449.9
52.5°	1401.2	1396.3	1391.4	1367.0	1376.9	1381.7	1362.3	1342.7	1318.4	1299.0	1226.1
55°	1235.8	1230.8	1230.8	1216.4	1206.5	1216.4	1196.8	1182.2	1148.2	1123.8	1050.9
57.5°	1094.6	1094.6	1084.9	1070.3	1075.2	1075.2	1055.8	1036.3	1007.0	977.9	919.6
60°	973.0	973.0	973.0	958.4	958.4	958.4	948.7	929.3	905.0	875.7	817.4
62.5°	875.7	875.7	870.8	856.3	861.1	861.1	851.4	832.0	807.7	788.1	729.8
65°	797.8	797.8	797.8	783.4	783.4	788.1	778.4	759.0	739.5	715.2	661.6
67.5°	700.5	695.8	695.8	685.9	690.8	695.8	685.9	671.5	647.1	632.5	583.9
70°	578.9	583.9	588.6	574.2	578.9	578.9	574.2	559.5	544.9	530.3	486.6
72.5°	472.0	472.0	467.0	462.3	462.3	467.0	457.3	442.7	433.0	423.3	389.1
75°	360.0	355.1	360.0	350.4	350.4	350.4	340.5	335.7	330.8	316.2	291.8
77.5°	262.8	257.8	257.8	248.1	253.1	253.1	248.1	238.4	228.6	223.8	204.3
80°	179.9	179.9	179.9	175.2	175.2	170.2	170.2	165.5	155.6	150.9	141.2
82.5°	121.6	121.6	121.6	116.8	116.8	116.8	111.9	107.0	102.2	97.3	87.6
85°	77.9	77.9	77.9	73.0	73.0	73.0	68.0	68.0	63.3	58.3	48.6
87.5°	43.7	43.7	43.7	38.9	38.9	38.9	38.9	38.9	34.0	29.3	24.3
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°	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9
2.5°	5069.4	5001.4	5045.1	5045.1	5030.6	5069.4	5093.9	5113.3	5108.3	5064.6	5059.7
5°	5030.6	4972.1	5020.7	5025.7	5011.0	5064.6	5098.6	5123.0	5127.9	5088.9	5093.9
7.5°	5001.4	4952.7	5016.0	5035.4	5030.6	5079.3	5118.2	5157.0	5176.5	5147.3	5152.2
10°	4986.7	4947.8	5016.0	5045.1	5050.0	5103.6	5161.9	5215.5	5239.8	5220.2	5234.9
12.5°	4967.3	4943.0	5020.7	5064.6	5084.0	5137.6	5210.5	5273.8	5312.8	5303.1	5332.1
15°	4947.8	4928.4	5020.7	5084.0	5108.3	5157.0	5239.8	5332.1	5376.0	5371.1	5410.0
17.5°	4899.1	4894.4	4991.7	5059.7	5093.9	5152.2	5229.9	5341.8	5385.7	5395.4	5444.1
20°	4821.4	4821.4	4928.4	5001.4	5040.3	5093.9	5191.2	5298.1	5351.7	5361.4	5415.0
22.5°	4714.3	4724.0	4826.2	4899.1	4957.7	4996.4	5098.6	5210.5	5259.2	5273.8	5332.1
25°	4573.3	4583.0	4680.3	4753.2	4816.5	4860.2	4957.7	5059.7	5118.2	5132.6	5176.5
27.5°	4388.4	4407.8	4500.3	4573.3	4626.7	4655.9	4758.2	4865.1	4908.8	4923.5	4967.3
30°	4174.3	4179.2	4271.6	4334.8	4388.4	4412.7	4500.3	4612.2	4646.2	4660.9	4724.0
32.5°	3911.5	3906.8	3994.4	4052.7	4096.4	4125.6	4218.0	4291.1	4325.1	4349.5	4383.5
35°	3595.4	3590.4	3653.7	3721.9	3755.9	3765.6	3858.1	3935.8	3955.4	3974.8	4018.7
37.5°	3240.2	3240.2	3293.6	3327.8	3366.6	3381.2	3425.1	3512.7	3546.7	3541.8	3575.8
40°	2865.6	2846.2	2885.0	2919.1	2928.8	2933.6	2977.5	3045.5	3069.8	3069.8	3094.1
42.5°	2471.5	2442.3	2447.2	2466.6	2476.3	2442.3	2471.5	2515.2	2500.6	2520.2	2525.1
45°	2053.1	2009.2	1989.9	1946.0	1955.9	1921.7	1902.3	1912.0	1907.2	1858.6	1868.3
47.5°	1712.5	1634.8	1600.6	1537.5	1522.8	1483.9	1459.6	1415.7	1376.9	1376.9	1352.4
50°	1425.6	1347.7	1279.5	1206.5	1182.2	1148.2	1094.6	1036.3	1007.0	977.9	953.6
52.5°	1196.8	1114.2	1031.3	953.6	919.6	875.7	802.7	744.4	690.8	661.6	632.5
55°	1011.9	919.6	832.0	749.2	705.5	661.6	588.6	520.6	457.3	418.4	394.1
57.5°	870.8	783.4	690.8	603.2	564.3	515.7	437.9	364.8	306.5	262.8	238.4
60°	768.7	681.1	598.5	506.0	467.0	418.4	335.7	267.5	209.2	170.2	141.2
62.5°	681.1	603.2	515.7	433.0	394.1	345.4	267.5	199.5	145.9	107.0	82.7
65°	617.9	540.0	467.0	384.4	350.4	301.7	228.6	165.5	116.8	82.7	58.3
67.5°	544.9	476.7	403.8	335.7	301.7	262.8	194.6	141.2	97.3	68.0	48.6
70°	457.3	403.8	340.5	277.4	253.1	218.9	160.5	116.8	77.9	53.6	38.9
72.5°	364.8	321.1	272.5	223.8	204.3	170.2	131.3	92.5	58.3	38.9	29.3
75°	277.4	243.2	204.3	170.2	150.9	131.3	97.3	68.0	43.7	29.3	19.4
77.5°	189.8	175.2	145.9	116.8	107.0	92.5	63.3	43.7	29.3	19.4	9.7
80°	131.3	116.8	97.3	77.9	68.0	58.3	38.9	29.3	14.6	9.7	4.9
82.5°	82.7	68.0	58.3	48.6	43.7	34.0	24.3	14.6	9.7	4.9	4.9
85°	43.7	38.9	34.0	24.3	24.3	19.4	14.6	9.7	4.9	0.0	0.0
87.5°	24.3	19.4	14.6	9.7	9.7	4.9	4.9	4.9	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°	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9
2.5°	5118.2	5118.2	5113.3	5171.6	5103.6	5171.6	5137.6	5171.6	5123.0	5118.2	5123.0
5°	5157.0	5171.6	5176.5	5229.9	5166.8	5249.5	5220.2	5249.5	5215.5	5225.2	5239.8
7.5°	5234.9	5259.2	5254.4	5322.5	5259.2	5351.7	5332.1	5376.0	5341.8	5351.7	5371.1
10°	5322.5	5351.7	5356.5	5424.7	5366.2	5478.1	5453.7	5502.4	5473.3	5487.9	5512.3
12.5°	5424.7	5458.7	5463.6	5541.3	5478.1	5594.9	5580.3	5628.9	5604.6	5619.2	5648.5
15°	5502.4	5551.0	5560.9	5638.6	5570.6	5692.2	5682.5	5745.8	5706.8	5731.1	5755.5
17.5°	5541.3	5585.2	5604.6	5677.6	5619.2	5740.8	5731.1	5784.7	5755.5	5779.8	5809.0
20°	5517.0	5570.6	5585.2	5658.2	5599.8	5721.4	5706.8	5760.4	5731.1	5750.5	5779.8
22.5°	5429.4	5483.0	5502.4	5570.6	5517.0	5628.9	5624.2	5672.8	5633.9	5658.2	5682.5
25°	5273.8	5332.1	5341.8	5405.1	5346.8	5463.6	5453.7	5507.3	5478.1	5492.7	5526.7
27.5°	5050.0	5118.2	5132.6	5186.2	5142.5	5239.8	5239.8	5283.5	5249.5	5249.5	5283.5
30°	4782.5	4850.5	4860.2	4904.1	4865.1	4952.7	4957.7	5001.4	4947.8	4977.0	4982.0
32.5°	4456.4	4500.3	4529.4	4568.3	4510.0	4621.9	4607.3	4641.3	4612.2	4612.2	4636.6
35°	4062.4	4116.0	4130.6	4179.2	4130.6	4218.0	4218.0	4237.6	4208.3	4208.3	4247.2
37.5°	3634.3	3673.3	3678.0	3726.6	3687.7	3760.7	3755.9	3770.5	3741.3	3760.7	3760.7
40°	3133.1	3162.3	3172.0	3196.4	3191.6	3245.0	3240.2	3249.9	3235.3	3240.2	3249.9
42.5°	2549.4	2588.2	2607.7	2627.1	2598.0	2671.0	2656.4	2671.0	2666.1	2671.0	2685.6
45°	1878.0	1907.2	1921.7	1926.6	1916.9	1960.6	1994.6	1965.5	1970.3	1960.6	1980.2
47.5°	1357.4	1362.3	1352.4	1381.7	1357.4	1376.9	1386.6	1391.4	1362.3	1357.4	1376.9
50°	929.3	953.6	919.6	934.0	929.3	948.7	939.0	943.9	914.7	929.3	919.6
52.5°	617.9	612.9	603.2	608.2	598.5	598.5	598.5	608.2	588.6	578.9	569.2
55°	374.7	364.8	345.4	340.5	340.5	345.4	335.7	326.0	326.0	321.1	321.1
57.5°	218.9	204.3	194.6	189.8	179.9	175.2	170.2	170.2	160.5	160.5	160.5
60°	121.6	107.0	97.3	87.6	87.6	82.7	77.9	73.0	73.0	73.0	68.0
62.5°	63.3	53.6	43.7	38.9	38.9	34.0	29.3	29.3	29.3	29.3	24.3
65°	43.7	34.0	29.3	24.3	24.3	19.4	19.4	19.4	19.4	19.4	19.4
67.5°	34.0	29.3	24.3	19.4	19.4	19.4	14.6	14.6	14.6	14.6	14.6
70°	29.3	19.4	19.4	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
72.5°	19.4	19.4	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
75°	14.6	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	0.0	0.0	0.0	0.0	0.0
80°	4.9	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: P685245

CATALOG NUMBER: LX6C80D010 EX6809030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9
2.5°	5166.8	5161.9	5166.8	5176.5	5157.0	5215.5	5186.2	5215.5
5°	5278.7	5283.5	5288.4	5303.1	5278.7	5351.7	5312.8	5356.5
7.5°	5424.7	5429.4	5434.4	5449.0	5434.4	5507.3	5463.6	5502.4
10°	5575.5	5585.2	5585.2	5609.5	5594.9	5662.9	5633.9	5682.5
12.5°	5716.5	5726.2	5736.1	5750.5	5740.8	5813.8	5789.5	5828.4
15°	5828.4	5847.8	5852.7	5872.1	5862.4	5940.3	5911.1	5950.0
17.5°	5882.0	5901.4	5901.4	5925.7	5916.0	5998.7	5959.7	6003.6
20°	5852.7	5867.4	5872.1	5896.6	5886.8	5969.6	5930.6	5984.0
22.5°	5760.4	5765.2	5770.1	5794.4	5789.5	5862.4	5828.4	5862.4
25°	5590.0	5604.6	5599.8	5619.2	5619.2	5677.6	5638.6	5667.9
27.5°	5346.8	5361.4	5361.4	5385.7	5366.2	5424.7	5385.7	5429.4
30°	5050.0	5064.6	5054.9	5074.3	5054.9	5113.3	5084.0	5098.6
32.5°	4694.9	4694.9	4699.6	4704.6	4694.9	4748.3	4719.2	4748.3
35°	4271.6	4281.3	4286.2	4291.1	4281.3	4320.2	4286.2	4305.6
37.5°	3794.9	3819.2	3814.2	3819.2	3804.5	3853.2	3823.9	3833.8
40°	3283.9	3283.9	3279.0	3288.9	3274.3	3313.2	3293.6	3303.3
42.5°	2690.4	2705.0	2685.6	2710.0	2671.0	2724.4	2705.0	2690.4
45°	2019.1	1999.6	1994.6	1999.6	1984.9	1989.9	2004.5	1994.6
47.5°	1376.9	1376.9	1367.0	1352.4	1372.0	1376.9	1357.4	1357.4
50°	924.3	924.3	914.7	909.7	919.6	914.7	905.0	919.6
52.5°	588.6	569.2	569.2	578.9	569.2	559.5	574.2	564.3
55°	321.1	311.4	311.4	321.1	311.4	311.4	306.5	316.2
57.5°	155.6	160.5	155.6	155.6	155.6	155.6	150.9	155.6
60°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
62.5°	29.3	29.3	24.3	24.3	24.3	24.3	24.3	24.3
65°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
67.5°	14.6	14.6	14.6	14.6	14.6	19.4	14.6	14.6
70°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
72.5°	14.6	14.6	19.4	19.4	19.4	19.4	19.4	19.4
75°	9.7	9.7	9.7	4.9	4.9	4.9	4.9	4.9
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)