

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: P683950

Luminaire Tested: **LX6C120D010 EX6C1209027 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P683950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C120D010 EX6C1209027 6LCSWH
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

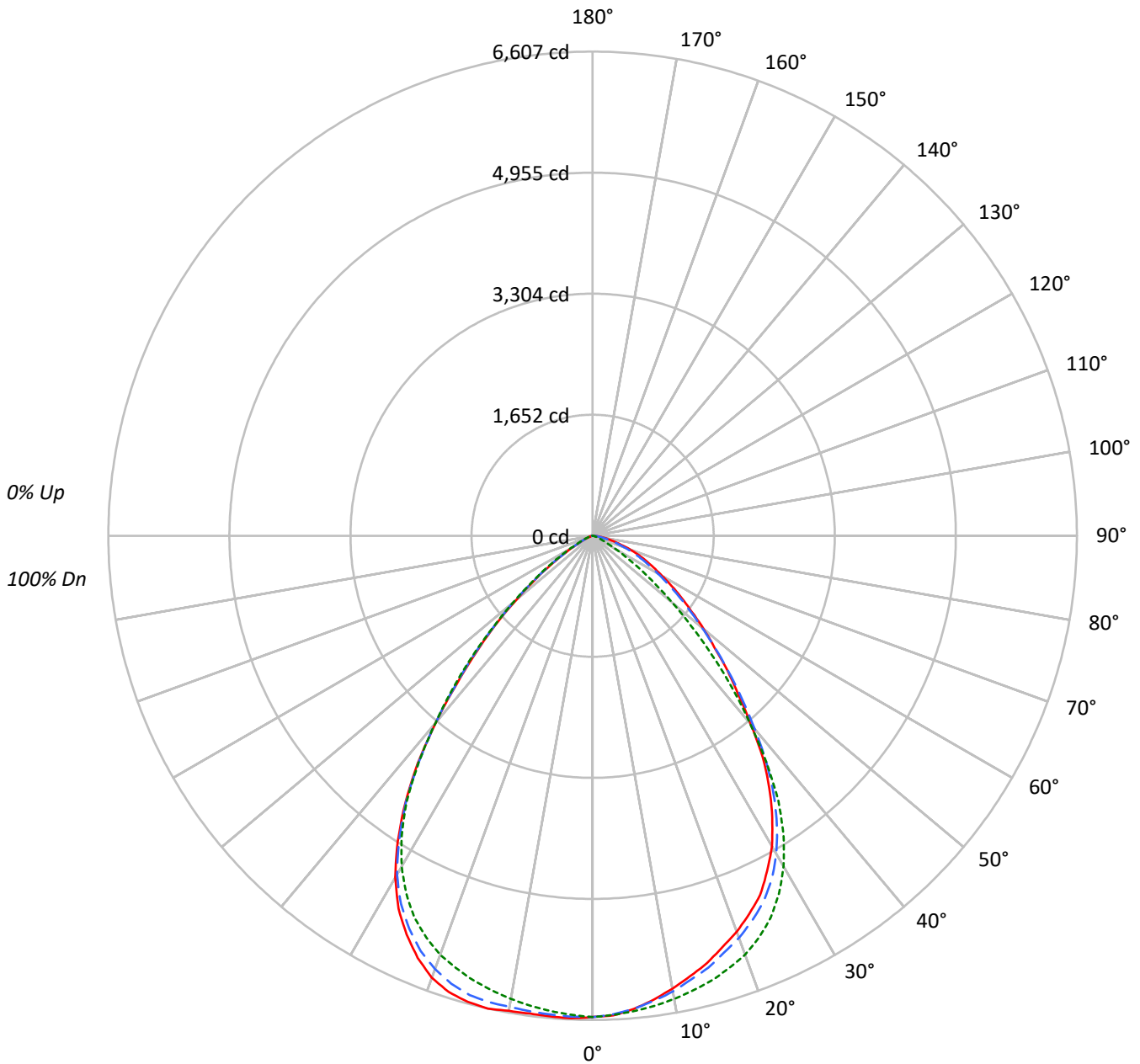
Lumens per Lamp: N/A
Luminaire Lumens: 11018.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	360031	360031	360031
5°	356597	358342	362276
10°	349248	357186	366465
15°	342567	356517	373629
20°	335463	354896	374334
25°	327200	347820	363172
30°	309795	329861	340907
35°	281331	295659	298316
40°	240107	238955	237824
45°	201688	178933	173406
50°	168446	121079	115007
55°	141768	74291	67477
60°	120012	39142	33912
65°	103915	20586	16448
70°	86441	12710	8896
75°	63860	8409	5062
80°	50101	4988	2557
85°	39941	5095	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.9	5.6
10°-20°	1772.2	16.1
20°-30°	2616.9	23.8
30°-40°	2697.0	24.5
40°-50°	1862.8	16.9
50°-60°	918.2	8.3
60°-70°	372.0	3.4
70°-80°	132.6	1.2
80°-90°	27.4	0.2
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°	5008.1	45.5
0°-40°	7705.0	69.9
0°-60°	10485.9	95.2
0°-90°	11018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11018.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6568	6568	6568	6568	6568	
5°	6480	6480	6512	6560	6583	612
15°	6036	6100	6282	6488	6583	1699
25°	5409	5513	5750	5917	6004	2473
35°	4204	4307	4418	4442	4458	2605
45°	2602	2617	2308	2276	2237	2011
55°	1483	1428	777	730	706	1340
65°	801	722	159	127	127	796
75°	302	254	40	24	24	338
85°	64	48	8	0	0	78
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°	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5
2.5°	6551.4	6527.9	6543.7	6511.8	6551.4	6511.8	6519.8	6527.9	6519.8	6527.9	6535.6
5°	6480.1	6456.3	6480.1	6440.5	6480.1	6456.3	6456.3	6464.3	6464.3	6472.1	6480.1
7.5°	6385.0	6361.1	6385.0	6345.3	6392.7	6369.2	6369.2	6385.0	6376.9	6385.0	6400.8
10°	6274.0	6242.1	6266.0	6242.1	6289.8	6257.9	6274.0	6274.0	6274.0	6297.6	6313.7
12.5°	6155.0	6123.1	6155.0	6115.4	6162.8	6139.2	6147.0	6170.8	6178.6	6194.7	6202.4
15°	6036.0	5996.3	6012.2	5988.3	6036.0	6012.2	6020.2	6051.8	6051.8	6075.7	6099.5
17.5°	5885.4	5853.5	5885.4	5853.5	5893.1	5877.3	5893.1	5917.0	5917.0	5940.9	5964.4
20°	5750.3	5718.7	5742.5	5718.7	5766.4	5742.5	5750.3	5782.2	5789.9	5813.8	5837.7
22.5°	5583.8	5560.0	5575.8	5552.2	5599.7	5583.8	5591.9	5623.5	5631.6	5647.4	5687.0
25°	5409.4	5361.6	5385.5	5369.7	5417.4	5393.6	5409.4	5441.0	5457.1	5480.6	5512.6
27.5°	5155.5	5131.7	5147.5	5147.5	5187.1	5163.6	5171.3	5203.3	5226.8	5250.7	5290.3
30°	4894.0	4854.3	4870.1	4877.8	4909.8	4894.0	4909.8	4941.4	4949.4	4981.0	5012.7
32.5°	4560.8	4544.7	4576.6	4560.8	4576.6	4576.6	4584.4	4608.2	4624.0	4640.1	4679.8
35°	4203.8	4172.1	4203.8	4188.0	4227.6	4203.8	4227.6	4251.5	4251.5	4283.1	4307.0
37.5°	3815.1	3775.5	3791.3	3791.3	3807.1	3799.3	3799.3	3839.0	3846.7	3870.6	3894.5
40°	3355.2	3339.1	3371.0	3363.0	3371.0	3371.0	3378.8	3402.6	3418.4	3426.5	3434.5
42.5°	2942.7	2950.5	2958.5	2958.5	2958.5	2958.5	2958.5	2990.1	2982.4	3006.2	3014.0
45°	2601.5	2569.9	2585.7	2577.9	2601.5	2577.9	2601.5	2625.3	2609.5	2633.4	2617.3
47.5°	2252.5	2252.5	2252.5	2244.8	2260.6	2252.5	2268.3	2276.4	2276.4	2276.4	2268.3
50°	1975.1	1951.3	1959.0	1959.0	1967.1	1959.0	1975.1	1982.9	1982.9	1967.1	1935.5
52.5°	1705.2	1697.4	1697.4	1713.2	1713.2	1705.2	1705.2	1705.2	1705.2	1681.6	1665.5
55°	1483.3	1467.5	1475.2	1475.2	1475.2	1475.2	1483.3	1475.2	1475.2	1451.4	1427.8
57.5°	1284.9	1269.1	1269.1	1269.1	1276.9	1269.1	1269.1	1269.1	1261.1	1237.2	1205.6
60°	1094.6	1086.6	1094.6	1094.6	1102.4	1094.6	1094.6	1094.6	1078.8	1055.0	1023.1
62.5°	936.0	936.0	936.0	943.7	943.7	936.0	936.0	927.9	920.2	888.2	856.6
65°	801.1	793.1	801.1	801.1	808.9	808.9	801.1	793.1	785.3	753.4	721.8
67.5°	666.3	658.3	666.3	666.3	674.1	666.3	666.3	666.3	642.5	626.7	594.7
70°	539.3	531.5	531.5	531.5	539.3	523.5	531.5	531.5	515.7	491.8	459.9
72.5°	412.5	412.5	412.5	412.5	412.5	412.5	404.4	404.4	388.6	364.8	349.0
75°	301.5	301.5	309.3	309.3	301.5	301.5	301.5	293.5	285.4	269.6	253.8
77.5°	222.2	222.2	222.2	222.2	214.2	214.2	214.2	206.1	198.3	190.3	174.5
80°	158.7	158.7	158.7	150.6	158.7	150.6	150.6	150.6	134.8	126.8	119.0
82.5°	111.0	103.2	103.2	103.2	103.2	103.2	103.2	95.1	95.1	87.4	79.3
85°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	55.5	47.7	47.7
87.5°	31.6	39.7	39.7	39.7	39.7	39.7	39.7	31.6	31.6	31.6	23.9
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°	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5
2.5°	6535.6	6535.6	6551.4	6527.9	6567.5	6543.7	6535.6	6575.3	6551.4	6543.7	6559.5
5°	6480.1	6488.2	6495.9	6480.1	6519.8	6495.9	6495.9	6535.6	6519.8	6511.8	6535.6
7.5°	6408.8	6416.6	6432.4	6424.7	6456.3	6440.5	6448.5	6488.2	6472.1	6472.1	6495.9
10°	6321.5	6337.3	6353.4	6353.4	6392.7	6376.9	6376.9	6424.7	6408.8	6416.6	6448.5
12.5°	6218.3	6242.1	6266.0	6274.0	6313.7	6289.8	6297.6	6353.4	6345.3	6353.4	6385.0
15°	6107.3	6139.2	6162.8	6162.8	6210.5	6186.6	6210.5	6266.0	6250.2	6281.8	6321.5
17.5°	5980.5	6012.2	6043.8	6051.8	6099.5	6083.4	6115.4	6170.8	6170.8	6186.6	6234.4
20°	5861.5	5901.2	5917.0	5940.9	5988.3	5980.5	5996.3	6059.9	6059.9	6083.4	6131.2
22.5°	5702.9	5742.5	5774.1	5798.0	5837.7	5837.7	5861.5	5917.0	5917.0	5932.8	5980.5
25°	5528.4	5575.8	5599.7	5623.5	5663.2	5655.1	5679.0	5726.7	5734.5	5750.3	5798.0
27.5°	5306.2	5345.8	5377.7	5393.6	5449.0	5417.4	5441.0	5496.8	5488.7	5504.5	5544.2
30°	5028.8	5068.4	5100.1	5100.1	5147.5	5147.5	5171.3	5195.2	5195.2	5211.0	5242.9
32.5°	4703.4	4751.1	4751.1	4774.9	4806.6	4774.9	4806.6	4838.2	4822.4	4846.2	4870.1
35°	4330.5	4354.4	4362.4	4362.4	4386.3	4378.3	4370.2	4394.1	4378.3	4417.9	4441.8
37.5°	3878.7	3910.3	3894.5	3910.3	3902.2	3878.7	3878.7	3918.3	3886.4	3894.5	3918.3
40°	3442.3	3442.3	3434.5	3394.9	3402.6	3378.8	3371.0	3378.8	3347.1	3339.1	3371.0
42.5°	2990.1	2982.4	2958.5	2903.0	2910.8	2871.1	2839.5	2839.5	2823.7	2815.6	2823.7
45°	2585.7	2561.8	2522.1	2458.9	2442.8	2411.2	2347.7	2331.8	2308.0	2308.0	2316.0
47.5°	2212.8	2181.2	2117.7	2046.4	2006.7	1967.1	1903.5	1879.7	1840.0	1824.2	1840.0
50°	1903.5	1848.1	1768.7	1665.5	1625.8	1578.4	1514.9	1475.2	1435.6	1419.7	1411.7
52.5°	1618.1	1538.8	1459.4	1332.7	1300.7	1253.3	1165.9	1126.3	1086.6	1055.0	1055.0
55°	1372.0	1300.7	1189.8	1070.8	1023.1	975.6	888.2	832.8	793.1	777.3	761.5
57.5°	1150.1	1070.8	967.6	840.8	793.1	745.7	658.3	602.8	563.1	539.3	523.5
60°	967.6	880.5	777.3	666.3	610.8	563.1	476.0	420.3	380.6	357.0	340.9
62.5°	793.1	721.8	618.6	515.7	468.0	420.3	349.0	293.5	253.8	238.0	214.2
65°	666.3	594.7	499.6	412.5	372.8	325.1	261.9	214.2	182.5	158.7	142.9
67.5°	539.3	483.8	404.4	325.1	285.4	253.8	198.3	158.7	126.8	111.0	103.2
70°	428.3	372.8	309.3	245.8	222.2	190.3	150.6	111.0	95.1	79.3	71.3
72.5°	317.4	277.7	230.0	182.5	158.7	142.9	103.2	87.4	63.5	55.5	47.7
75°	230.0	198.3	166.4	126.8	111.0	103.2	79.3	55.5	47.7	39.7	31.6
77.5°	158.7	142.9	111.0	87.4	79.3	71.3	55.5	39.7	31.6	23.9	23.9
80°	103.2	87.4	71.3	55.5	55.5	47.7	31.6	23.9	23.9	15.8	15.8
82.5°	63.5	55.5	47.7	39.7	31.6	31.6	23.9	15.8	15.8	8.1	8.1
85°	39.7	31.6	23.9	23.9	15.8	15.8	15.8	8.1	8.1	8.1	8.1
87.5°	15.8	15.8	15.8	8.1	8.1	8.1	8.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5
2.5°	6559.5	6559.5	6575.3	6551.4	6567.5	6567.5	6583.3	6551.4	6567.5	6575.3	6591.1
5°	6527.9	6535.6	6551.4	6543.7	6551.4	6551.4	6567.5	6527.9	6559.5	6559.5	6583.3
7.5°	6495.9	6495.9	6511.8	6504.0	6519.8	6527.9	6543.7	6511.8	6543.7	6543.7	6567.5
10°	6456.3	6456.3	6480.1	6472.1	6495.9	6504.0	6527.9	6495.9	6527.9	6535.6	6559.5
12.5°	6400.8	6408.8	6432.4	6432.4	6456.3	6472.1	6495.9	6480.1	6519.8	6527.9	6559.5
15°	6337.3	6353.4	6385.0	6376.9	6400.8	6424.7	6456.3	6432.4	6488.2	6504.0	6535.6
17.5°	6257.9	6274.0	6297.6	6297.6	6321.5	6337.3	6376.9	6361.1	6408.8	6416.6	6456.3
20°	6139.2	6162.8	6194.7	6186.6	6210.5	6226.3	6257.9	6242.1	6289.8	6305.6	6345.3
22.5°	5996.3	6012.2	6036.0	6036.0	6059.9	6075.7	6107.3	6083.4	6131.2	6139.2	6170.8
25°	5806.1	5821.9	5837.7	5845.7	5869.3	5877.3	5893.1	5877.3	5917.0	5925.1	5964.4
27.5°	5560.0	5568.0	5591.9	5591.9	5607.7	5615.5	5639.3	5607.7	5663.2	5663.2	5687.0
30°	5266.5	5258.7	5290.3	5274.5	5290.3	5290.3	5314.2	5298.4	5338.1	5322.3	5345.8
32.5°	4877.8	4894.0	4894.0	4877.8	4909.8	4901.7	4901.7	4885.9	4909.8	4917.5	4933.3
35°	4426.0	4449.5	4449.5	4457.6	4465.6	4441.8	4449.5	4402.1	4441.8	4449.5	4457.6
37.5°	3934.1	3910.3	3926.1	3902.2	3941.9	3894.5	3894.5	3862.8	3894.5	3894.5	3902.2
40°	3371.0	3363.0	3378.8	3363.0	3355.2	3347.1	3331.3	3307.5	3339.1	3323.3	3347.1
42.5°	2839.5	2831.4	2831.4	2815.6	2807.9	2807.9	2792.1	2776.0	2768.2	2768.2	2807.9
45°	2292.2	2308.0	2292.2	2284.4	2300.2	2284.4	2292.2	2260.6	2276.4	2260.6	2276.4
47.5°	1832.3	1840.0	1824.2	1808.4	1832.3	1808.4	1808.4	1784.5	1816.4	1816.4	1800.3
50°	1419.7	1411.7	1395.9	1411.7	1403.9	1403.9	1403.9	1380.1	1395.9	1372.0	1388.1
52.5°	1046.9	1039.2	1039.2	1031.1	1039.2	1031.1	1031.1	1023.1	1023.1	1015.3	1023.1
55°	761.5	753.4	737.6	737.6	737.6	745.7	737.6	729.9	729.9	721.8	729.9
57.5°	515.7	499.6	499.6	499.6	499.6	491.8	491.8	483.8	491.8	483.8	491.8
60°	333.2	333.2	317.4	317.4	317.4	317.4	317.4	309.3	317.4	317.4	317.4
62.5°	206.1	206.1	198.3	190.3	198.3	190.3	190.3	190.3	198.3	190.3	198.3
65°	134.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8
67.5°	95.1	87.4	87.4	87.4	87.4	87.4	87.4	79.3	87.4	87.4	87.4
70°	63.5	63.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
72.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
75°	31.6	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
77.5°	23.9	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
80°	15.8	15.8	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	8.1	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	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
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: P683950

CATALOG NUMBER: LX6C120D010 EX6C1209027 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5	6567.5
2.5°	6567.5	6575.3	6559.5	6567.5	6551.4	6567.5	6575.3	6591.1
5°	6551.4	6559.5	6543.7	6559.5	6543.7	6559.5	6567.5	6583.3
7.5°	6535.6	6551.4	6535.6	6551.4	6535.6	6551.4	6559.5	6575.3
10°	6535.6	6559.5	6543.7	6567.5	6543.7	6559.5	6575.3	6583.3
12.5°	6535.6	6559.5	6551.4	6567.5	6559.5	6575.3	6591.1	6606.9
15°	6519.8	6543.7	6527.9	6551.4	6543.7	6551.4	6583.3	6583.3
17.5°	6432.4	6456.3	6456.3	6472.1	6472.1	6495.9	6511.8	6527.9
20°	6321.5	6345.3	6337.3	6361.1	6361.1	6385.0	6400.8	6416.6
22.5°	6155.0	6186.6	6178.6	6202.4	6194.7	6210.5	6242.1	6234.4
25°	5940.9	5980.5	5972.5	5988.3	5980.5	5980.5	5996.3	6004.1
27.5°	5679.0	5702.9	5694.8	5710.9	5694.8	5710.9	5726.7	5734.5
30°	5338.1	5353.9	5345.8	5353.9	5345.8	5361.6	5369.7	5385.5
32.5°	4925.6	4949.4	4925.6	4941.4	4933.3	4933.3	4965.2	4949.4
35°	4433.7	4441.8	4449.5	4449.5	4433.7	4441.8	4457.6	4457.6
37.5°	3886.4	3926.1	3878.7	3902.2	3894.5	3894.5	3894.5	3918.3
40°	3315.5	3323.3	3307.5	3307.5	3307.5	3299.4	3331.3	3323.3
42.5°	2776.0	2784.0	2776.0	2752.4	2760.2	2760.2	2784.0	2752.4
45°	2252.5	2268.3	2260.6	2260.6	2244.8	2244.8	2252.5	2236.7
47.5°	1784.5	1800.3	1776.8	1784.5	1768.7	1784.5	1776.8	1792.6
50°	1356.2	1372.0	1364.3	1372.0	1372.0	1356.2	1380.1	1348.5
52.5°	1015.3	1023.1	1015.3	1007.2	999.5	999.5	1015.3	1007.2
55°	721.8	713.8	713.8	713.8	721.8	721.8	713.8	706.0
57.5°	483.8	483.8	476.0	476.0	483.8	468.0	476.0	468.0
60°	309.3	309.3	309.3	309.3	301.5	309.3	309.3	309.3
62.5°	190.3	190.3	190.3	190.3	190.3	190.3	190.3	190.3
65°	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8
67.5°	79.3	87.4	87.4	87.4	79.3	79.3	79.3	79.3
70°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
72.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
75°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
77.5°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	8.1	8.1	8.1	8.1	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)