

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: P683974

Luminaire Tested: **LX6C120D010 EX6C1209040 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P683974  
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 EX6C1209040 6LCSWH  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

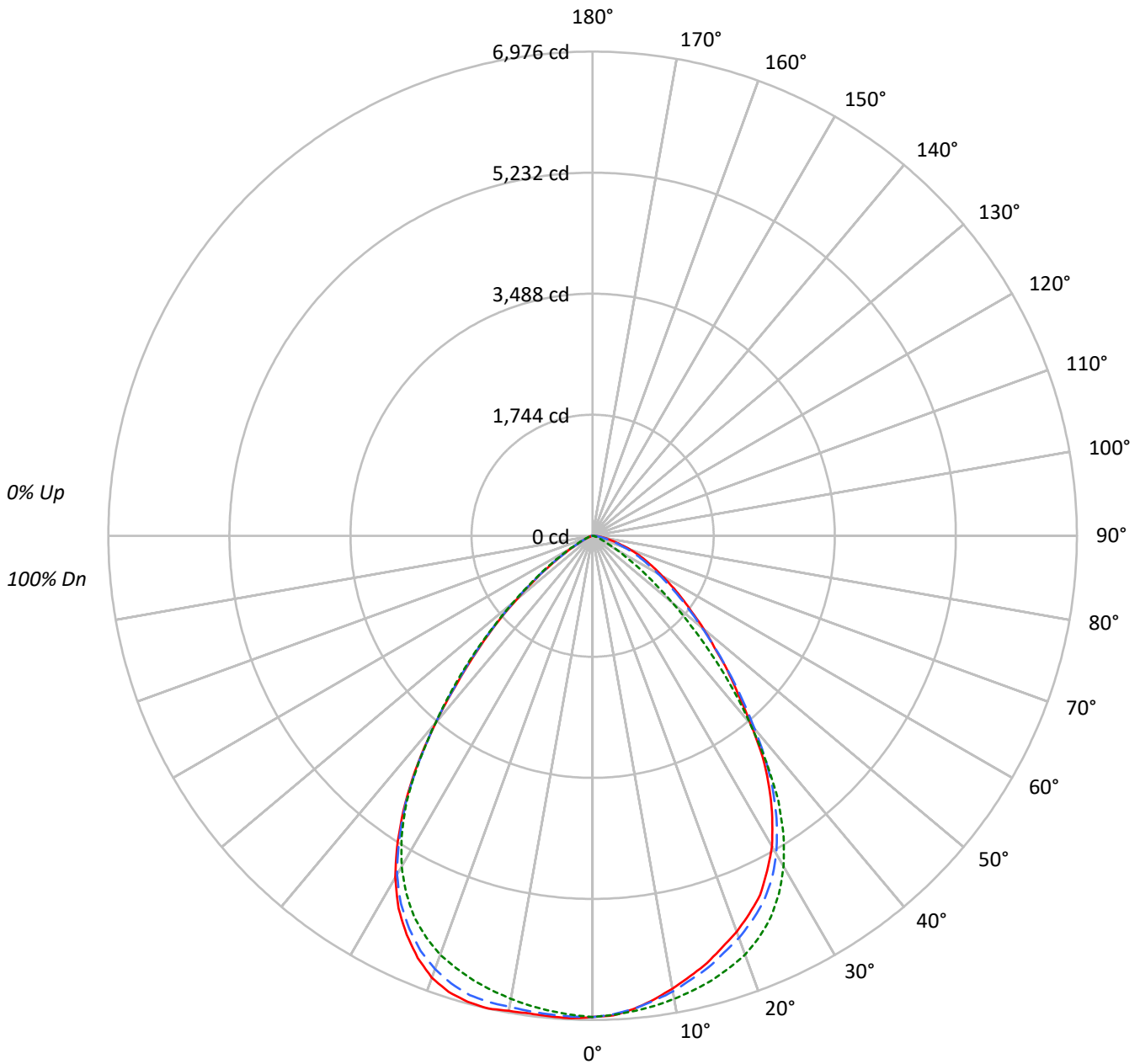
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11633.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 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<sub>in</sub>): 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								
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°	380129	380129	380129
5°	376501	378339	382500
10°	368742	377125	386922
15°	361688	376415	394486
20°	354184	374708	395231
25°	345461	367231	383441
30°	327082	348275	359935
35°	297031	312163	314967
40°	253511	252294	251099
45°	212945	188919	183081
50°	177853	127842	121420
55°	149682	78439	71242
60°	126711	41334	35809
65°	109726	21727	17356
70°	91265	13432	9393
75°	67440	8875	5338
80°	52879	5272	2683
85°	42205	5346	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.5	5.6
10°-20°	1871.1	16.1
20°-30°	2763.0	23.8
30°-40°	2847.5	24.5
40°-50°	1966.7	16.9
50°-60°	969.4	8.3
60°-70°	392.8	3.4
70°-80°	140.0	1.2
80°-90°	29.0	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°	5287.6	45.5
0°-40°	8135.1	69.9
0°-60°	11071.2	95.2
0°-90°	11633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11633.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6934	6934	6934	6934	6934	
5°	6842	6842	6875	6926	6951	646
15°	6373	6440	6632	6850	6951	1794
25°	5711	5820	6071	6247	6339	2611
35°	4438	4547	4664	4690	4706	2750
45°	2747	2763	2437	2403	2362	2123
55°	1566	1508	821	771	745	1415
65°	846	762	168	134	134	840
75°	318	268	42	25	25	357
85°	67	50	8	0	0	82
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°	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1
2.5°	6917.1	6892.2	6908.9	6875.2	6917.1	6875.2	6883.7	6892.2	6883.7	6892.2	6900.4
5°	6841.8	6816.6	6841.8	6800.0	6841.8	6816.6	6816.6	6825.2	6825.2	6833.3	6841.8
7.5°	6741.4	6716.2	6741.4	6699.5	6749.6	6724.7	6724.7	6741.4	6732.9	6741.4	6758.1
10°	6624.2	6590.5	6615.7	6590.5	6640.9	6607.2	6624.2	6624.2	6624.2	6649.1	6666.1
12.5°	6498.6	6464.9	6498.6	6456.7	6506.8	6481.9	6490.1	6515.3	6523.5	6540.5	6548.7
15°	6372.9	6331.0	6347.7	6322.5	6372.9	6347.7	6356.2	6389.6	6389.6	6414.8	6440.0
17.5°	6213.9	6180.2	6213.9	6180.2	6222.1	6205.4	6222.1	6247.3	6247.3	6272.5	6297.4
20°	6071.2	6037.9	6063.1	6037.9	6088.2	6063.1	6071.2	6104.9	6113.1	6138.3	6163.5
22.5°	5895.5	5870.3	5887.0	5862.1	5912.2	5895.5	5904.0	5937.4	5945.9	5962.6	6004.5
25°	5711.3	5660.9	5686.1	5669.4	5719.8	5694.6	5711.3	5744.7	5761.7	5786.6	5820.3
27.5°	5443.3	5418.1	5434.8	5434.8	5476.7	5451.8	5460.0	5493.7	5518.6	5543.8	5585.6
30°	5167.1	5125.2	5141.9	5150.1	5183.8	5167.1	5183.8	5217.2	5225.7	5259.1	5292.5
32.5°	4815.4	4798.4	4832.1	4815.4	4832.1	4832.1	4840.2	4865.4	4882.1	4899.1	4941.0
35°	4438.4	4405.0	4438.4	4421.7	4463.6	4438.4	4463.6	4488.8	4488.8	4522.2	4547.4
37.5°	4028.1	3986.2	4002.9	4002.9	4019.6	4011.4	4011.4	4053.3	4061.5	4086.7	4111.8
40°	3542.5	3525.5	3559.2	3550.7	3559.2	3559.2	3567.4	3592.5	3609.2	3617.7	3626.2
42.5°	3107.0	3115.1	3123.6	3123.6	3123.6	3123.6	3123.6	3157.0	3148.8	3174.0	3182.2
45°	2746.7	2713.3	2730.0	2721.8	2746.7	2721.8	2746.7	2771.9	2755.2	2780.4	2763.4
47.5°	2378.2	2378.2	2378.2	2370.0	2386.7	2378.2	2394.9	2403.4	2403.4	2403.4	2394.9
50°	2085.4	2060.2	2068.4	2068.4	2076.9	2068.4	2085.4	2093.6	2093.6	2076.9	2043.5
52.5°	1800.4	1792.2	1792.2	1808.9	1808.9	1800.4	1800.4	1800.4	1800.4	1775.5	1758.5
55°	1566.1	1549.4	1557.6	1557.6	1557.6	1557.6	1566.1	1557.6	1557.6	1532.4	1507.5
57.5°	1356.7	1340.0	1340.0	1340.0	1348.2	1340.0	1340.0	1340.0	1331.5	1306.3	1272.9
60°	1155.7	1147.2	1155.7	1155.7	1163.9	1155.7	1155.7	1155.7	1139.0	1113.9	1080.2
62.5°	988.2	988.2	988.2	996.4	996.4	988.2	988.2	979.7	971.5	937.8	904.4
65°	845.9	837.4	845.9	845.9	854.0	854.0	845.9	837.4	829.2	795.5	762.1
67.5°	703.5	695.0	703.5	703.5	711.7	703.5	703.5	703.5	678.3	661.6	627.9
70°	569.4	561.2	561.2	561.2	569.4	552.7	561.2	561.2	544.5	519.3	485.6
72.5°	435.5	435.5	435.5	435.5	435.5	435.5	427.0	427.0	410.3	385.1	368.5
75°	318.4	318.4	326.6	326.6	318.4	318.4	318.4	309.9	301.4	284.7	268.0
77.5°	234.6	234.6	234.6	234.6	226.1	226.1	226.1	217.6	209.4	200.9	184.2
80°	167.5	167.5	167.5	159.0	167.5	159.0	159.0	159.0	142.3	133.8	125.7
82.5°	117.1	109.0	109.0	109.0	109.0	109.0	109.0	100.5	100.5	92.3	83.8
85°	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	58.6	50.4	50.4
87.5°	33.4	41.9	41.9	41.9	41.9	41.9	41.9	33.4	33.4	33.4	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°	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1
2.5°	6900.4	6900.4	6917.1	6892.2	6934.1	6908.9	6900.4	6942.3	6917.1	6908.9	6925.6
5°	6841.8	6850.3	6858.5	6841.8	6883.7	6858.5	6858.5	6900.4	6883.7	6875.2	6900.4
7.5°	6766.6	6774.8	6791.5	6783.3	6816.6	6800.0	6808.5	6850.3	6833.3	6833.3	6858.5
10°	6674.3	6691.0	6708.0	6708.0	6749.6	6732.9	6732.9	6783.3	6766.6	6774.8	6808.5
12.5°	6565.3	6590.5	6615.7	6624.2	6666.1	6640.9	6649.1	6708.0	6699.5	6708.0	6741.4
15°	6448.2	6481.9	6506.8	6506.8	6557.2	6532.0	6557.2	6615.7	6599.0	6632.4	6674.3
17.5°	6314.4	6347.7	6381.1	6389.6	6440.0	6423.0	6456.7	6515.3	6515.3	6532.0	6582.4
20°	6188.7	6230.6	6247.3	6272.5	6322.5	6314.4	6331.0	6398.1	6398.1	6423.0	6473.4
22.5°	6021.2	6063.1	6096.4	6121.6	6163.5	6163.5	6188.7	6247.3	6247.3	6264.0	6314.4
25°	5836.9	5887.0	5912.2	5937.4	5979.3	5970.8	5996.0	6046.4	6054.6	6071.2	6121.6
27.5°	5602.3	5644.2	5677.9	5694.6	5753.2	5719.8	5744.7	5803.6	5795.1	5811.8	5853.6
30°	5309.5	5351.3	5384.7	5384.7	5434.8	5434.8	5460.0	5485.2	5485.2	5501.9	5535.6
32.5°	4965.9	5016.3	5016.3	5041.5	5074.9	5041.5	5074.9	5108.2	5091.5	5116.7	5141.9
35°	4572.2	4597.4	4605.9	4605.9	4631.1	4622.6	4614.1	4639.3	4622.6	4664.5	4689.7
37.5°	4095.2	4128.5	4111.8	4128.5	4120.0	4095.2	4095.2	4137.0	4103.3	4111.8	4137.0
40°	3634.4	3634.4	3626.2	3584.4	3592.5	3567.4	3559.2	3567.4	3534.0	3525.5	3559.2
42.5°	3157.0	3148.8	3123.6	3065.1	3073.3	3031.4	2998.0	2998.0	2981.3	2972.8	2981.3
45°	2730.0	2704.8	2662.9	2596.2	2579.2	2545.8	2478.7	2462.0	2436.8	2436.8	2445.3
47.5°	2336.4	2303.0	2235.9	2160.6	2118.7	2076.9	2009.8	1984.6	1942.7	1926.0	1942.7
50°	2009.8	1951.2	1867.4	1758.5	1716.6	1666.5	1599.5	1557.6	1515.7	1499.0	1490.5
52.5°	1708.4	1624.6	1540.9	1407.0	1373.3	1323.3	1231.0	1189.1	1147.2	1113.9	1113.9
55°	1448.6	1373.3	1256.2	1130.5	1080.2	1030.1	937.8	879.2	837.4	820.7	804.0
57.5°	1214.3	1130.5	1021.6	887.7	837.4	787.3	695.0	636.4	594.6	569.4	552.7
60°	1021.6	929.6	820.7	703.5	644.9	594.6	502.6	443.7	401.8	377.0	359.9
62.5°	837.4	762.1	653.1	544.5	494.1	443.7	368.5	309.9	268.0	251.3	226.1
65°	703.5	627.9	527.5	435.5	393.6	343.3	276.5	226.1	192.7	167.5	150.8
67.5°	569.4	510.8	427.0	343.3	301.4	268.0	209.4	167.5	133.8	117.1	109.0
70°	452.2	393.6	326.6	259.5	234.6	200.9	159.0	117.1	100.5	83.8	75.3
72.5°	335.1	293.2	242.8	192.7	167.5	150.8	109.0	92.3	67.1	58.6	50.4
75°	242.8	209.4	175.7	133.8	117.1	109.0	83.8	58.6	50.4	41.9	33.4
77.5°	167.5	150.8	117.1	92.3	83.8	75.3	58.6	41.9	33.4	25.2	25.2
80°	109.0	92.3	75.3	58.6	58.6	50.4	33.4	25.2	25.2	16.7	16.7
82.5°	67.1	58.6	50.4	41.9	33.4	33.4	25.2	16.7	16.7	8.5	8.5
85°	41.9	33.4	25.2	25.2	16.7	16.7	16.7	8.5	8.5	8.5	8.5
87.5°	16.7	16.7	16.7	8.5	8.5	8.5	8.5	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°	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1
2.5°	6925.6	6925.6	6942.3	6917.1	6934.1	6934.1	6950.8	6917.1	6934.1	6942.3	6959.0
5°	6892.2	6900.4	6917.1	6908.9	6917.1	6917.1	6934.1	6892.2	6925.6	6925.6	6950.8
7.5°	6858.5	6858.5	6875.2	6867.0	6883.7	6892.2	6908.9	6875.2	6908.9	6908.9	6934.1
10°	6816.6	6816.6	6841.8	6833.3	6858.5	6867.0	6892.2	6858.5	6892.2	6900.4	6925.6
12.5°	6758.1	6766.6	6791.5	6791.5	6816.6	6833.3	6858.5	6841.8	6883.7	6892.2	6925.6
15°	6691.0	6708.0	6741.4	6732.9	6758.1	6783.3	6816.6	6791.5	6850.3	6867.0	6900.4
17.5°	6607.2	6624.2	6649.1	6649.1	6674.3	6691.0	6732.9	6716.2	6766.6	6774.8	6816.6
20°	6481.9	6506.8	6540.5	6532.0	6557.2	6573.8	6607.2	6590.5	6640.9	6657.6	6699.5
22.5°	6331.0	6347.7	6372.9	6372.9	6398.1	6414.8	6448.2	6423.0	6473.4	6481.9	6515.3
25°	6130.1	6146.8	6163.5	6172.0	6196.9	6205.4	6222.1	6205.4	6247.3	6255.8	6297.4
27.5°	5870.3	5878.8	5904.0	5904.0	5920.7	5928.9	5954.1	5920.7	5979.3	5979.3	6004.5
30°	5560.5	5552.3	5585.6	5569.0	5585.6	5585.6	5610.8	5594.1	5636.0	5619.3	5644.2
32.5°	5150.1	5167.1	5167.1	5150.1	5183.8	5175.3	5175.3	5158.6	5183.8	5192.0	5208.7
35°	4673.0	4697.9	4697.9	4706.4	4714.9	4689.7	4697.9	4647.8	4689.7	4697.9	4706.4
37.5°	4153.7	4128.5	4145.2	4120.0	4161.9	4111.8	4111.8	4078.5	4111.8	4111.8	4120.0
40°	3559.2	3550.7	3567.4	3550.7	3542.5	3534.0	3517.3	3492.1	3525.5	3508.8	3534.0
42.5°	2998.0	2989.5	2989.5	2972.8	2964.6	2964.6	2947.9	2930.9	2922.7	2922.7	2964.6
45°	2420.1	2436.8	2420.1	2411.9	2428.6	2411.9	2420.1	2386.7	2403.4	2386.7	2403.4
47.5°	1934.5	1942.7	1926.0	1909.3	1934.5	1909.3	1909.3	1884.1	1917.8	1917.8	1900.8
50°	1499.0	1490.5	1473.8	1490.5	1482.3	1482.3	1482.3	1457.1	1473.8	1448.6	1465.6
52.5°	1105.4	1097.2	1097.2	1088.7	1097.2	1088.7	1088.7	1080.2	1080.2	1072.0	1080.2
55°	804.0	795.5	778.8	778.8	778.8	787.3	778.8	770.6	770.6	762.1	770.6
57.5°	544.5	527.5	527.5	527.5	527.5	519.3	519.3	510.8	519.3	510.8	519.3
60°	351.8	351.8	335.1	335.1	335.1	335.1	335.1	326.6	335.1	335.1	335.1
62.5°	217.6	217.6	209.4	200.9	209.4	200.9	200.9	200.9	209.4	200.9	209.4
65°	142.3	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8
67.5°	100.5	92.3	92.3	92.3	92.3	92.3	92.3	83.8	92.3	92.3	92.3
70°	67.1	67.1	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
72.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
75°	33.4	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
77.5°	25.2	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
80°	16.7	16.7	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
85°	8.5	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	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
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: P683974

CATALOG NUMBER: LX6C120D010 EX6C1209040 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1
2.5°	6934.1	6942.3	6925.6	6934.1	6917.1	6934.1	6942.3	6959.0
5°	6917.1	6925.6	6908.9	6925.6	6908.9	6925.6	6934.1	6950.8
7.5°	6900.4	6917.1	6900.4	6917.1	6900.4	6917.1	6925.6	6942.3
10°	6900.4	6925.6	6908.9	6934.1	6908.9	6925.6	6942.3	6950.8
12.5°	6900.4	6925.6	6917.1	6934.1	6925.6	6942.3	6959.0	6975.7
15°	6883.7	6908.9	6892.2	6917.1	6908.9	6917.1	6950.8	6950.8
17.5°	6791.5	6816.6	6816.6	6833.3	6833.3	6858.5	6875.2	6892.2
20°	6674.3	6699.5	6691.0	6716.2	6716.2	6741.4	6758.1	6774.8
22.5°	6498.6	6532.0	6523.5	6548.7	6540.5	6557.2	6590.5	6582.4
25°	6272.5	6314.4	6305.9	6322.5	6314.4	6314.4	6331.0	6339.2
27.5°	5996.0	6021.2	6012.7	6029.7	6012.7	6029.7	6046.4	6054.6
30°	5636.0	5652.7	5644.2	5652.7	5644.2	5660.9	5669.4	5686.1
32.5°	5200.5	5225.7	5200.5	5217.2	5208.7	5208.7	5242.4	5225.7
35°	4681.2	4689.7	4697.9	4697.9	4681.2	4689.7	4706.4	4706.4
37.5°	4103.3	4145.2	4095.2	4120.0	4111.8	4111.8	4111.8	4137.0
40°	3500.6	3508.8	3492.1	3492.1	3492.1	3483.6	3517.3	3508.8
42.5°	2930.9	2939.4	2930.9	2906.0	2914.2	2914.2	2939.4	2906.0
45°	2378.2	2394.9	2386.7	2386.7	2370.0	2370.0	2378.2	2361.5
47.5°	1884.1	1900.8	1875.9	1884.1	1867.4	1884.1	1875.9	1892.6
50°	1431.9	1448.6	1440.4	1448.6	1448.6	1431.9	1457.1	1423.7
52.5°	1072.0	1080.2	1072.0	1063.5	1055.3	1055.3	1072.0	1063.5
55°	762.1	753.6	753.6	753.6	762.1	762.1	753.6	745.4
57.5°	510.8	510.8	502.6	502.6	510.8	494.1	502.6	494.1
60°	326.6	326.6	326.6	326.6	318.4	326.6	326.6	326.6
62.5°	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9
65°	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8
67.5°	83.8	92.3	92.3	92.3	83.8	83.8	83.8	83.8
70°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
72.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
75°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
77.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
80°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	8.5	8.5	8.5	8.5	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)