

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: P684002

Luminaire Tested: **LX6C130D010 EX6C1309030 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684002  
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: LX6C130D010 EX6C1309030 6LCSWH  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

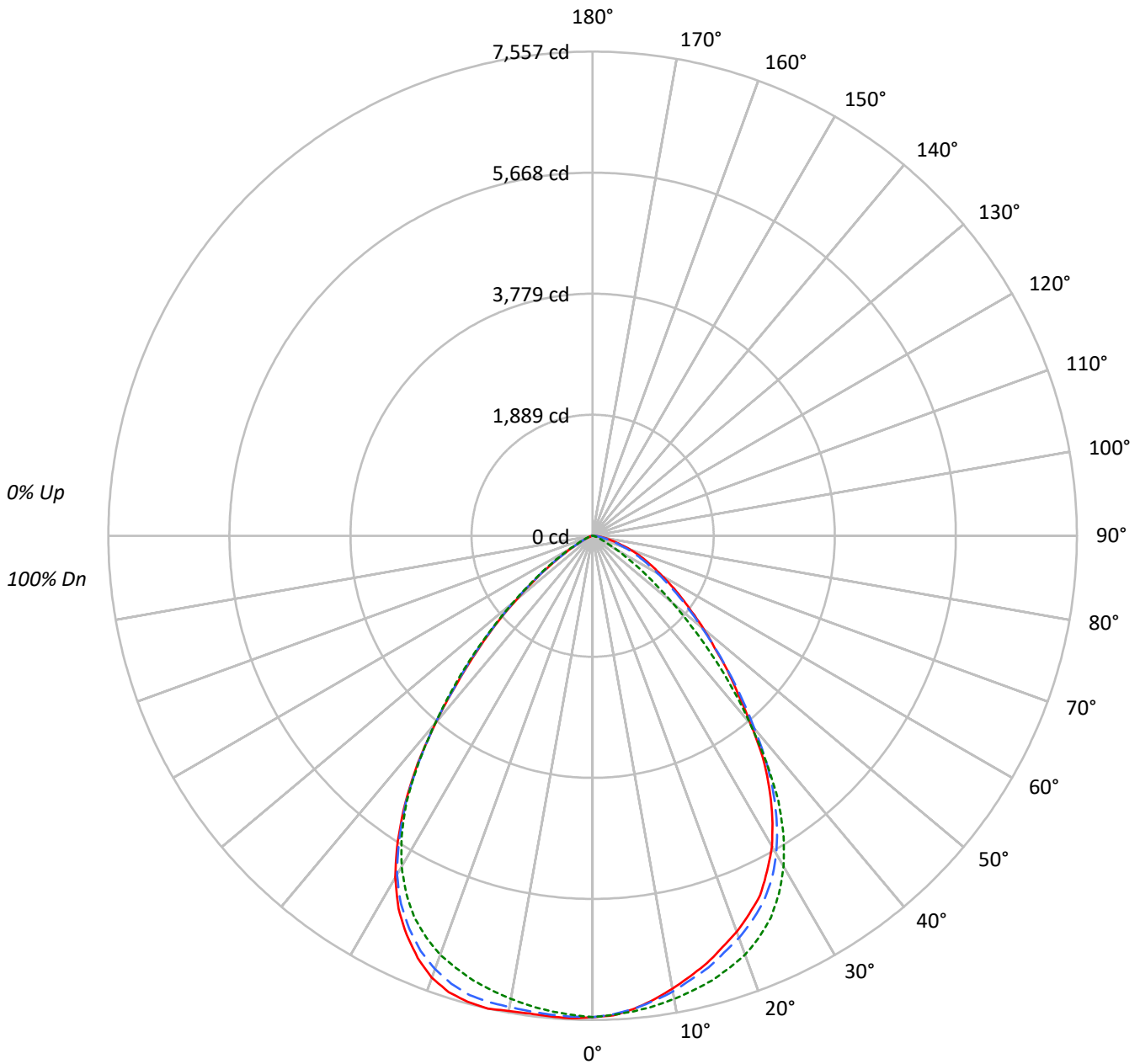
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12603.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 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): 144.3  
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									
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°	411826	411826	411826
5°	407896	409888	414395
10°	399492	408571	419186
15°	391847	407806	427380
20°	383721	405954	428186
25°	374266	397856	415415
30°	354358	377311	389946
35°	321800	338196	341227
40°	274650	273326	272038
45°	230698	204672	198354
50°	192684	138503	131544
55°	162164	84977	77187
60°	137281	44777	38791
65°	118871	23543	18809
70°	98863	14554	10178
75°	73053	9616	5782
80°	57299	5714	2904
85°	45728	5787	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	708.0	5.6
10°-20°	2027.1	16.1
20°-30°	2993.4	23.8
30°-40°	3084.9	24.5
40°-50°	2130.7	16.9
50°-60°	1050.2	8.3
60°-70°	425.6	3.4
70°-80°	151.7	1.2
80°-90°	31.4	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°	5728.5	45.5
0°-40°	8813.4	69.9
0°-60°	11994.4	95.2
0°-90°	12603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12603.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7512	7512	7512	7512	7512	
5°	7412	7412	7448	7503	7530	700
15°	6904	6977	7186	7422	7530	1944
25°	6188	6306	6578	6768	6868	2829
35°	4808	4926	5054	5081	5099	2980
45°	2976	2994	2640	2604	2558	2300
55°	1697	1633	889	835	808	1533
65°	916	826	182	145	145	910
75°	345	290	45	27	27	387
85°	73	55	9	0	0	89
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°	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3
2.5°	7493.9	7466.9	7485.0	7448.5	7493.9	7448.5	7457.7	7466.9	7457.7	7466.9	7475.8
5°	7412.3	7385.0	7412.3	7367.0	7412.3	7385.0	7385.0	7394.3	7394.3	7403.1	7412.3
7.5°	7303.5	7276.2	7303.5	7258.1	7312.4	7285.4	7285.4	7303.5	7294.3	7303.5	7321.6
10°	7176.6	7140.1	7167.4	7140.1	7194.7	7158.2	7176.6	7176.6	7176.6	7203.5	7222.0
12.5°	7040.5	7004.0	7040.5	6995.1	7049.3	7022.4	7031.2	7058.5	7067.4	7085.8	7094.7
15°	6904.3	6859.0	6877.0	6849.7	6904.3	6877.0	6886.2	6922.4	6922.4	6949.7	6977.0
17.5°	6732.0	6695.5	6732.0	6695.5	6740.9	6722.8	6740.9	6768.2	6768.2	6795.5	6822.4
20°	6577.5	6541.3	6568.6	6541.3	6595.9	6568.6	6577.5	6614.0	6622.9	6650.2	6677.4
22.5°	6387.1	6359.8	6377.9	6350.9	6405.2	6387.1	6396.3	6432.5	6441.7	6459.8	6505.2
25°	6187.5	6132.9	6160.2	6142.1	6196.7	6169.4	6187.5	6223.7	6242.1	6269.1	6305.6
27.5°	5897.2	5869.9	5888.0	5888.0	5933.3	5906.4	5915.3	5951.8	5978.7	6006.0	6051.4
30°	5598.0	5552.6	5570.7	5579.6	5616.1	5598.0	5616.1	5652.2	5661.4	5697.6	5733.8
32.5°	5216.9	5198.5	5235.0	5216.9	5235.0	5235.0	5243.8	5271.1	5289.2	5307.6	5353.0
35°	4808.5	4772.3	4808.5	4790.4	4835.8	4808.5	4835.8	4863.1	4863.1	4899.3	4926.5
37.5°	4364.0	4318.6	4336.7	4336.7	4354.7	4345.9	4345.9	4391.2	4400.1	4427.4	4454.7
40°	3837.9	3819.4	3855.9	3846.7	3855.9	3855.9	3864.8	3892.1	3910.2	3919.4	3928.6
42.5°	3366.0	3374.9	3384.1	3384.1	3384.1	3384.1	3384.1	3420.3	3411.4	3438.7	3447.6
45°	2975.7	2939.6	2957.6	2948.8	2975.7	2948.8	2975.7	3003.0	2984.9	3012.2	2993.8
47.5°	2576.5	2576.5	2576.5	2567.7	2585.8	2576.5	2594.6	2603.8	2603.8	2603.8	2594.6
50°	2259.3	2232.0	2240.8	2240.8	2250.0	2240.8	2259.3	2268.1	2268.1	2250.0	2213.9
52.5°	1950.5	1941.6	1941.6	1959.7	1959.7	1950.5	1950.5	1950.5	1950.5	1923.5	1905.1
55°	1696.7	1678.6	1687.4	1687.4	1687.4	1687.4	1696.7	1687.4	1687.4	1660.2	1633.2
57.5°	1469.8	1451.7	1451.7	1451.7	1460.6	1451.7	1451.7	1451.7	1442.5	1415.2	1379.0
60°	1252.1	1242.9	1252.1	1252.1	1261.0	1252.1	1252.1	1252.1	1234.0	1206.7	1170.2
62.5°	1070.6	1070.6	1070.6	1079.5	1079.5	1070.6	1070.6	1061.4	1052.5	1016.0	979.9
65°	916.4	907.2	916.4	916.4	925.3	925.3	916.4	907.2	898.3	861.8	825.6
67.5°	762.2	753.0	762.2	762.2	771.1	762.2	762.2	762.2	734.9	716.8	680.3
70°	616.8	608.0	608.0	608.0	616.8	598.8	608.0	608.0	589.9	562.6	526.1
72.5°	471.8	471.8	471.8	471.8	471.8	471.8	462.6	462.6	444.5	417.3	399.2
75°	344.9	344.9	353.8	353.8	344.9	344.9	344.9	335.7	326.5	308.4	290.3
77.5°	254.2	254.2	254.2	254.2	245.0	245.0	245.0	235.8	226.9	217.7	199.6
80°	181.5	181.5	181.5	172.3	181.5	172.3	172.3	172.3	154.2	145.0	136.1
82.5°	126.9	118.0	118.0	118.0	118.0	118.0	118.0	108.8	108.8	100.0	90.8
85°	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	63.5	54.6	54.6
87.5°	36.2	45.4	45.4	45.4	45.4	45.4	45.4	36.2	36.2	36.2	27.3
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°	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3
2.5°	7475.8	7475.8	7493.9	7466.9	7512.3	7485.0	7475.8	7521.2	7493.9	7485.0	7503.1
5°	7412.3	7421.5	7430.4	7412.3	7457.7	7430.4	7430.4	7475.8	7457.7	7448.5	7475.8
7.5°	7330.8	7339.7	7357.7	7348.9	7385.0	7367.0	7376.2	7421.5	7403.1	7403.1	7430.4
10°	7230.8	7248.9	7267.3	7267.3	7312.4	7294.3	7294.3	7348.9	7330.8	7339.7	7376.2
12.5°	7112.8	7140.1	7167.4	7176.6	7222.0	7194.7	7203.5	7267.3	7258.1	7267.3	7303.5
15°	6985.9	7022.4	7049.3	7049.3	7103.9	7076.6	7103.9	7167.4	7149.3	7185.5	7230.8
17.5°	6840.9	6877.0	6913.2	6922.4	6977.0	6958.6	6995.1	7058.5	7058.5	7076.6	7131.2
20°	6704.7	6750.1	6768.2	6795.5	6849.7	6840.9	6859.0	6931.6	6931.6	6958.6	7013.2
22.5°	6523.2	6568.6	6604.8	6632.1	6677.4	6677.4	6704.7	6768.2	6768.2	6786.3	6840.9
25°	6323.7	6377.9	6405.2	6432.5	6477.9	6468.7	6495.9	6550.5	6559.4	6577.5	6632.1
27.5°	6069.5	6114.9	6151.4	6169.4	6232.9	6196.7	6223.7	6287.5	6278.3	6296.4	6341.7
30°	5752.2	5797.6	5833.7	5833.7	5888.0	5888.0	5915.3	5942.6	5942.6	5960.6	5997.1
32.5°	5380.0	5434.6	5434.6	5461.8	5498.0	5461.8	5498.0	5534.2	5516.1	5543.4	5570.7
35°	4953.5	4980.8	4990.0	4990.0	5017.3	5008.1	4998.9	5026.2	5008.1	5053.5	5080.8
37.5°	4436.6	4472.8	4454.7	4472.8	4463.6	4436.6	4436.6	4482.0	4445.5	4454.7	4482.0
40°	3937.5	3937.5	3928.6	3883.2	3892.1	3864.8	3855.9	3864.8	3828.7	3819.4	3855.9
42.5°	3420.3	3411.4	3384.1	3320.6	3329.5	3284.1	3248.0	3248.0	3229.9	3220.7	3229.9
45°	2957.6	2930.3	2885.0	2812.6	2794.2	2758.0	2685.4	2667.3	2640.0	2640.0	2649.2
47.5°	2531.2	2495.0	2422.3	2340.8	2295.4	2250.0	2177.4	2150.1	2104.7	2086.6	2104.7
50°	2177.4	2113.9	2023.2	1905.1	1859.7	1805.5	1732.8	1687.4	1642.1	1624.0	1614.8
52.5°	1850.9	1760.1	1669.4	1524.4	1487.9	1433.6	1333.6	1288.3	1242.9	1206.7	1206.7
55°	1569.4	1487.9	1360.9	1224.8	1170.2	1116.0	1016.0	952.6	907.2	889.1	871.0
57.5°	1315.6	1224.8	1106.8	961.8	907.2	852.9	753.0	689.5	644.1	616.8	598.8
60°	1106.8	1007.1	889.1	762.2	698.7	644.1	544.5	480.7	435.3	408.4	390.0
62.5°	907.2	825.6	707.6	589.9	535.3	480.7	399.2	335.7	290.3	272.3	245.0
65°	762.2	680.3	571.5	471.8	426.5	371.9	299.6	245.0	208.8	181.5	163.4
67.5°	616.8	553.4	462.6	371.9	326.5	290.3	226.9	181.5	145.0	126.9	118.0
70°	489.9	426.5	353.8	281.1	254.2	217.7	172.3	126.9	108.8	90.8	81.5
72.5°	363.0	317.6	263.0	208.8	181.5	163.4	118.0	100.0	72.7	63.5	54.6
75°	263.0	226.9	190.4	145.0	126.9	118.0	90.8	63.5	54.6	45.4	36.2
77.5°	181.5	163.4	126.9	100.0	90.8	81.5	63.5	45.4	36.2	27.3	27.3
80°	118.0	100.0	81.5	63.5	63.5	54.6	36.2	27.3	27.3	18.1	18.1
82.5°	72.7	63.5	54.6	45.4	36.2	36.2	27.3	18.1	18.1	9.2	9.2
85°	45.4	36.2	27.3	27.3	18.1	18.1	18.1	9.2	9.2	9.2	9.2
87.5°	18.1	18.1	18.1	9.2	9.2	9.2	9.2	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°	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3
2.5°	7503.1	7503.1	7521.2	7493.9	7512.3	7512.3	7530.4	7493.9	7512.3	7521.2	7539.3
5°	7466.9	7475.8	7493.9	7485.0	7493.9	7493.9	7512.3	7466.9	7503.1	7503.1	7530.4
7.5°	7430.4	7430.4	7448.5	7439.6	7457.7	7466.9	7485.0	7448.5	7485.0	7485.0	7512.3
10°	7385.0	7385.0	7412.3	7403.1	7430.4	7439.6	7466.9	7430.4	7466.9	7475.8	7503.1
12.5°	7321.6	7330.8	7357.7	7357.7	7385.0	7403.1	7430.4	7412.3	7457.7	7466.9	7503.1
15°	7248.9	7267.3	7303.5	7294.3	7321.6	7348.9	7385.0	7357.7	7421.5	7439.6	7475.8
17.5°	7158.2	7176.6	7203.5	7203.5	7230.8	7248.9	7294.3	7276.2	7330.8	7339.7	7385.0
20°	7022.4	7049.3	7085.8	7076.6	7103.9	7122.0	7158.2	7140.1	7194.7	7212.8	7258.1
22.5°	6859.0	6877.0	6904.3	6904.3	6931.6	6949.7	6985.9	6958.6	7013.2	7022.4	7058.5
25°	6641.3	6659.4	6677.4	6686.7	6713.6	6722.8	6740.9	6722.8	6768.2	6777.4	6822.4
27.5°	6359.8	6369.0	6396.3	6396.3	6414.4	6423.3	6450.6	6414.4	6477.9	6477.9	6505.2
30°	6024.1	6015.2	6051.4	6033.3	6051.4	6051.4	6078.7	6060.6	6106.0	6087.9	6114.9
32.5°	5579.6	5598.0	5598.0	5579.6	5616.1	5606.8	5606.8	5588.8	5616.1	5624.9	5643.0
35°	5062.7	5089.6	5089.6	5098.8	5108.1	5080.8	5089.6	5035.4	5080.8	5089.6	5098.8
37.5°	4500.1	4472.8	4490.9	4463.6	4509.0	4454.7	4454.7	4418.5	4454.7	4454.7	4463.6
40°	3855.9	3846.7	3864.8	3846.7	3837.9	3828.7	3810.6	3783.3	3819.4	3801.4	3828.7
42.5°	3248.0	3238.8	3238.8	3220.7	3211.8	3211.8	3193.7	3175.3	3166.4	3166.4	3211.8
45°	2621.9	2640.0	2621.9	2613.0	2631.1	2613.0	2621.9	2585.8	2603.8	2585.8	2603.8
47.5°	2095.8	2104.7	2086.6	2068.5	2095.8	2068.5	2068.5	2041.2	2077.7	2077.7	2059.3
50°	1624.0	1614.8	1596.7	1614.8	1605.9	1605.9	1605.9	1578.6	1596.7	1569.4	1587.8
52.5°	1197.5	1188.6	1188.6	1179.4	1188.6	1179.4	1179.4	1170.2	1170.2	1161.4	1170.2
55°	871.0	861.8	843.7	843.7	843.7	852.9	843.7	834.9	834.9	825.6	834.9
57.5°	589.9	571.5	571.5	571.5	571.5	562.6	562.6	553.4	562.6	553.4	562.6
60°	381.1	381.1	363.0	363.0	363.0	363.0	363.0	353.8	363.0	363.0	363.0
62.5°	235.8	235.8	226.9	217.7	226.9	217.7	217.7	217.7	226.9	217.7	226.9
65°	154.2	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
67.5°	108.8	100.0	100.0	100.0	100.0	100.0	100.0	90.8	100.0	100.0	100.0
70°	72.7	72.7	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
72.5°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
75°	36.2	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
77.5°	27.3	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
80°	18.1	18.1	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
82.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
85°	9.2	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	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
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: P684002

CATALOG NUMBER: LX6C130D010 EX6C1309030 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3	7512.3
2.5°	7512.3	7521.2	7503.1	7512.3	7493.9	7512.3	7521.2	7539.3
5°	7493.9	7503.1	7485.0	7503.1	7485.0	7503.1	7512.3	7530.4
7.5°	7475.8	7493.9	7475.8	7493.9	7475.8	7493.9	7503.1	7521.2
10°	7475.8	7503.1	7485.0	7512.3	7485.0	7503.1	7521.2	7530.4
12.5°	7475.8	7503.1	7493.9	7512.3	7503.1	7521.2	7539.3	7557.3
15°	7457.7	7485.0	7466.9	7493.9	7485.0	7493.9	7530.4	7530.4
17.5°	7357.7	7385.0	7385.0	7403.1	7403.1	7430.4	7448.5	7466.9
20°	7230.8	7258.1	7248.9	7276.2	7276.2	7303.5	7321.6	7339.7
22.5°	7040.5	7076.6	7067.4	7094.7	7085.8	7103.9	7140.1	7131.2
25°	6795.5	6840.9	6831.7	6849.7	6840.9	6840.9	6859.0	6867.8
27.5°	6495.9	6523.2	6514.0	6532.5	6514.0	6532.5	6550.5	6559.4
30°	6106.0	6124.1	6114.9	6124.1	6114.9	6132.9	6142.1	6160.2
32.5°	5634.1	5661.4	5634.1	5652.2	5643.0	5643.0	5679.5	5661.4
35°	5071.5	5080.8	5089.6	5089.6	5071.5	5080.8	5098.8	5098.8
37.5°	4445.5	4490.9	4436.6	4463.6	4454.7	4454.7	4454.7	4482.0
40°	3792.5	3801.4	3783.3	3783.3	3783.3	3774.1	3810.6	3801.4
42.5°	3175.3	3184.5	3175.3	3148.3	3157.2	3157.2	3184.5	3148.3
45°	2576.5	2594.6	2585.8	2585.8	2567.7	2567.7	2576.5	2558.5
47.5°	2041.2	2059.3	2032.4	2041.2	2023.2	2041.2	2032.4	2050.5
50°	1551.3	1569.4	1560.5	1569.4	1569.4	1551.3	1578.6	1542.4
52.5°	1161.4	1170.2	1161.4	1152.1	1143.3	1143.3	1161.4	1152.1
55°	825.6	816.4	816.4	816.4	825.6	825.6	816.4	807.6
57.5°	553.4	553.4	544.5	544.5	553.4	535.3	544.5	535.3
60°	353.8	353.8	353.8	353.8	344.9	353.8	353.8	353.8
62.5°	217.7	217.7	217.7	217.7	217.7	217.7	217.7	217.7
65°	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
67.5°	90.8	100.0	100.0	100.0	90.8	90.8	90.8	90.8
70°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
72.5°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
75°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
77.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
80°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
82.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	9.2	9.2	9.2	9.2	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)