

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: P684824

Luminaire Tested: **LX6C130D010 EX61309030 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684824  
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: LX6C130D010 EX61309030 6LCSWLI  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

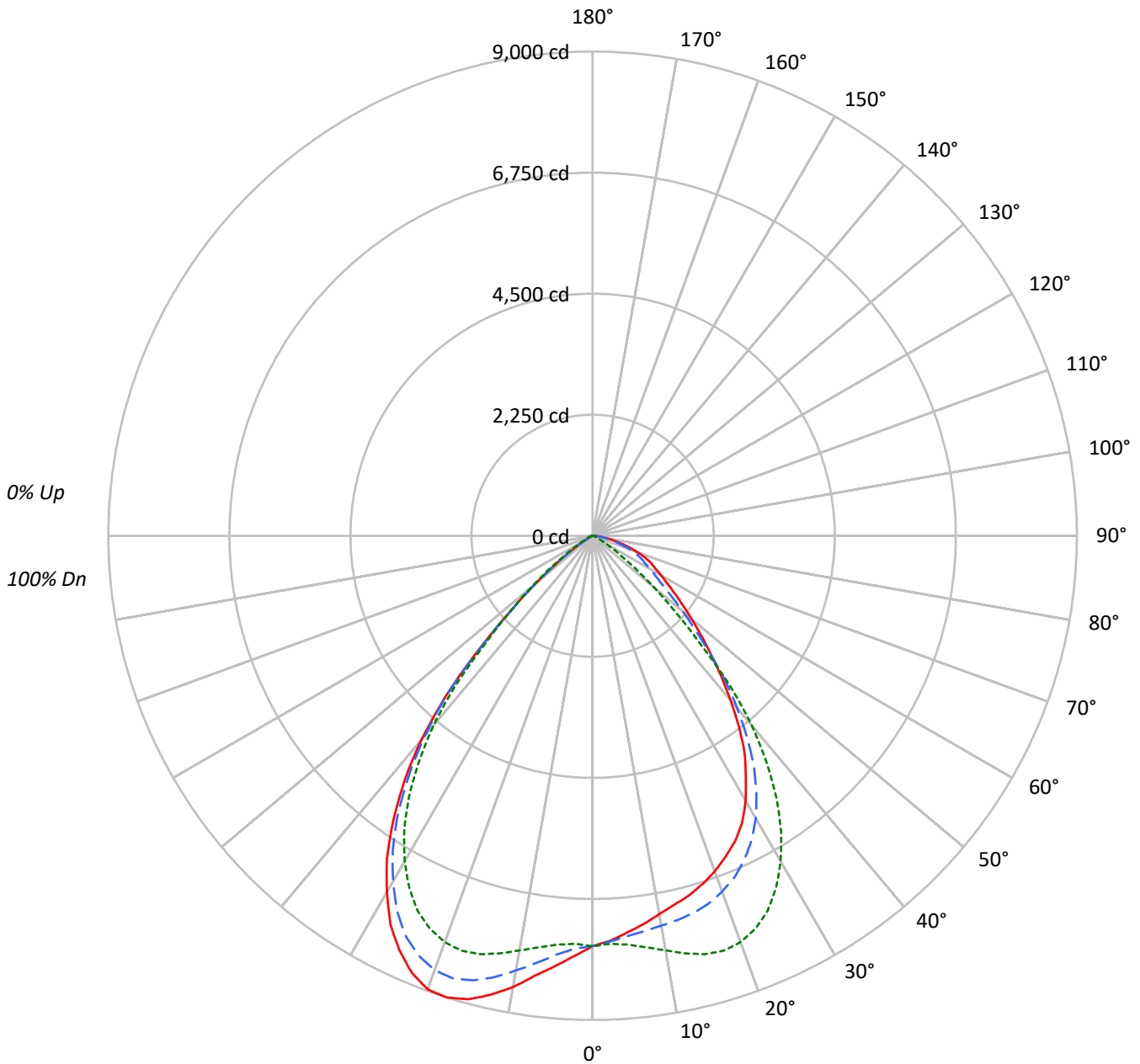
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13944.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 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): 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				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
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	418196	418196	418196
5°	407345	419793	441860
10°	397443	435602	474178
15°	392795	456949	506206
20°	387163	468860	523313
25°	378941	465390	513919
30°	360093	442271	483809
35°	329442	398748	431935
40°	284962	329317	354364
45°	240304	215999	231807
50°	204019	125019	117565
55°	177045	59945	45293
60°	159910	27980	11183
65°	155127	16072	3775
70°	139094	12871	3510
75°	114313	9298	1567
80°	85143	4578	0
85°	73466	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	736.8	5.3
10°-20°	2245.6	16.1
20°-30°	3431.1	24.6
30°-40°	3588.6	25.7
40°-50°	2328.0	16.7
50°-60°	924.3	6.6
60°-70°	438.5	3.1
70°-80°	208.5	1.5
80°-90°	42.5	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°	6413.6	46.0
0°-40°	10002.2	71.7
0°-60°	13254.5	95.1
0°-90°	13944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13944.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7628	7628	7628	7628	7628	
5°	7402	7468	7628	7818	8030	699
15°	6921	7256	8051	8555	8919	1950
25°	6265	6658	7694	8212	8496	2869
35°	4923	5222	5958	6308	6454	3044
45°	3100	3070	2786	2954	2990	2412
55°	1852	1575	627	489	474	1678
65°	1196	992	124	29	29	1168
75°	540	438	44	14	7	582
85°	117	73	0	0	0	136
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°	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5
2.5°	7533.6	7548.2	7468.1	7446.2	7504.6	7526.2	7533.6	7511.7	7519.1	7548.2	7548.2
5°	7402.3	7416.9	7344.0	7322.0	7380.4	7395.2	7416.9	7409.8	7431.7	7475.3	7468.1
7.5°	7278.5	7300.4	7220.1	7191.0	7263.9	7300.4	7314.9	7314.9	7344.0	7402.3	7409.8
10°	7139.8	7169.1	7096.2	7081.4	7161.7	7198.1	7205.5	7220.1	7263.9	7344.0	7358.5
12.5°	7023.3	7052.3	7001.3	6979.4	7066.8	7103.3	7117.8	7147.2	7198.1	7300.4	7314.9
15°	6921.0	6942.9	6884.6	6870.0	6957.5	7001.3	7008.5	7052.3	7117.8	7234.6	7256.5
17.5°	6789.7	6804.2	6760.7	6746.1	6833.6	6877.2	6884.6	6935.5	7015.9	7132.6	7169.1
20°	6636.5	6651.3	6607.4	6592.9	6680.3	6731.3	6738.7	6782.6	6877.2	7001.3	7037.8
22.5°	6454.2	6483.5	6432.5	6417.7	6505.5	6549.0	6571.0	6607.4	6702.3	6826.2	6877.2
25°	6264.8	6264.8	6228.3	6220.9	6301.2	6352.2	6344.8	6395.8	6490.7	6614.8	6658.4
27.5°	6016.7	6009.3	5972.9	5965.7	6053.2	6097.0	6082.2	6133.5	6220.9	6344.8	6388.7
30°	5688.6	5703.1	5652.2	5637.4	5710.5	5783.5	5776.1	5827.0	5914.5	6031.2	6060.6
32.5°	5294.7	5309.2	5302.1	5280.2	5345.7	5382.2	5404.1	5440.5	5513.5	5637.4	5666.7
35°	4922.7	4900.8	4871.8	4871.8	4937.3	4995.7	4973.7	5017.6	5090.5	5214.4	5221.8
37.5°	4463.3	4455.9	4441.4	4426.9	4499.8	4514.3	4521.7	4550.8	4616.6	4718.5	4704.0
40°	3982.0	3989.1	3982.0	3952.7	3996.5	4054.9	4047.5	4062.3	4120.4	4193.3	4171.7
42.5°	3529.7	3529.7	3529.7	3500.7	3551.6	3581.0	3595.5	3588.1	3602.6	3668.4	3639.1
45°	3099.6	3106.8	3099.6	3092.2	3099.6	3114.2	3099.6	3092.2	3092.2	3114.2	3070.3
47.5°	2727.7	2727.7	2705.7	2683.8	2705.7	2712.9	2691.2	2669.3	2661.9	2654.8	2581.8
50°	2392.2	2384.8	2377.6	2341.2	2362.8	2370.2	2341.2	2326.4	2297.3	2260.9	2173.4
52.5°	2100.5	2093.1	2085.7	2049.2	2064.1	2071.2	2042.1	2012.8	1976.3	1947.3	1837.9
55°	1852.4	1845.0	1845.0	1823.4	1808.6	1823.4	1794.1	1772.1	1721.1	1684.7	1575.3
57.5°	1640.8	1640.8	1626.3	1604.4	1611.8	1611.8	1582.7	1553.4	1509.5	1465.9	1378.5
60°	1458.5	1458.5	1458.5	1436.6	1436.6	1436.6	1422.1	1393.0	1356.6	1312.7	1225.3
62.5°	1312.7	1312.7	1305.3	1283.7	1290.8	1290.8	1276.3	1247.2	1210.7	1181.4	1094.0
65°	1195.9	1195.9	1195.9	1174.3	1174.3	1181.4	1166.9	1137.8	1108.5	1072.0	991.7
67.5°	1050.1	1043.0	1043.0	1028.2	1035.6	1043.0	1028.2	1006.5	970.1	948.1	875.2
70°	867.8	875.2	882.4	860.7	867.8	867.8	860.7	838.8	816.8	794.9	729.4
72.5°	707.5	707.5	700.1	693.0	693.0	700.1	685.5	663.6	649.1	634.6	583.3
75°	539.7	532.3	539.7	525.2	525.2	525.2	510.4	503.3	495.9	473.9	437.5
77.5°	393.9	386.5	386.5	372.0	379.4	379.4	372.0	357.4	342.6	335.5	306.2
80°	269.7	269.7	269.7	262.6	262.6	255.2	255.2	248.1	233.3	226.1	211.6
82.5°	182.3	182.3	182.3	175.2	175.2	175.2	167.8	160.4	153.2	145.8	131.3
85°	116.8	116.8	116.8	109.4	109.4	109.4	102.0	102.0	94.8	87.4	72.9
87.5°	65.5	65.5	65.5	58.4	58.4	58.4	58.4	58.4	51.0	43.9	36.5
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°	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5
2.5°	7599.2	7497.2	7562.7	7562.7	7541.0	7599.2	7635.9	7664.9	7657.5	7592.0	7584.6
5°	7541.0	7453.3	7526.2	7533.6	7511.7	7592.0	7643.0	7679.5	7686.9	7628.5	7635.9
7.5°	7497.2	7424.3	7519.1	7548.2	7541.0	7614.0	7672.3	7730.5	7759.8	7715.9	7723.3
10°	7475.3	7416.9	7519.1	7562.7	7570.1	7650.4	7737.9	7818.2	7854.6	7825.3	7847.2
12.5°	7446.2	7409.8	7526.2	7592.0	7621.1	7701.4	7810.8	7905.6	7964.0	7949.5	7993.1
15°	7416.9	7387.8	7526.2	7621.1	7657.5	7730.5	7854.6	7993.1	8058.8	8051.4	8109.8
17.5°	7344.0	7336.8	7482.7	7584.6	7635.9	7723.3	7839.8	8007.6	8073.4	8087.9	8160.8
20°	7227.5	7227.5	7387.8	7497.2	7555.6	7635.9	7781.7	7942.1	8022.4	8036.9	8117.2
22.5°	7066.8	7081.4	7234.6	7344.0	7431.7	7489.8	7643.0	7810.8	7883.7	7905.6	7993.1
25°	6855.5	6870.0	7015.9	7125.2	7220.1	7285.6	7431.7	7584.6	7672.3	7694.0	7759.8
27.5°	6578.4	6607.4	6746.1	6855.5	6935.5	6979.4	7132.6	7293.0	7358.5	7380.4	7446.2
30°	6257.4	6264.8	6403.2	6498.1	6578.4	6614.8	6746.1	6913.9	6964.9	6986.8	7081.4
32.5°	5863.5	5856.4	5987.7	6075.1	6140.6	6184.5	6322.9	6432.5	6483.5	6520.0	6571.0
35°	5389.6	5382.2	5477.0	5579.2	5630.2	5644.8	5783.5	5900.0	5929.3	5958.3	6024.1
37.5°	4857.2	4857.2	4937.3	4988.5	5046.6	5068.6	5134.4	5265.7	5316.6	5309.2	5360.2
40°	4295.6	4266.5	4324.6	4375.9	4390.4	4397.6	4463.3	4565.3	4601.8	4601.8	4638.2
42.5°	3704.9	3661.0	3668.4	3697.5	3712.0	3661.0	3704.9	3770.4	3748.5	3777.8	3785.2
45°	3077.7	3011.9	2982.9	2917.1	2931.9	2880.6	2851.6	2866.1	2859.0	2786.1	2800.6
47.5°	2567.0	2450.5	2399.3	2304.7	2282.8	2224.4	2187.9	2122.2	2064.1	2064.1	2027.3
50°	2137.0	2020.2	1918.0	1808.6	1772.1	1721.1	1640.8	1553.4	1509.5	1465.9	1429.5
52.5°	1794.1	1670.2	1546.0	1429.5	1378.5	1312.7	1203.3	1115.9	1035.6	991.7	948.1
55°	1516.9	1378.5	1247.2	1123.0	1057.5	991.7	882.4	780.4	685.5	627.2	590.7
57.5°	1305.3	1174.3	1035.6	904.3	845.9	773.0	656.5	546.9	459.4	393.9	357.4
60°	1152.4	1021.1	897.2	758.5	700.1	627.2	503.3	401.0	313.6	255.2	211.6
62.5°	1021.1	904.3	773.0	649.1	590.7	517.8	401.0	299.1	218.7	160.4	123.9
65°	926.2	809.4	700.1	576.2	525.2	452.3	342.6	248.1	175.2	123.9	87.4
67.5°	816.8	714.6	605.2	503.3	452.3	393.9	291.7	211.6	145.8	102.0	72.9
70°	685.5	605.2	510.4	415.8	379.4	328.1	240.7	175.2	116.8	80.3	58.4
72.5°	546.9	481.3	408.4	335.5	306.2	255.2	196.8	138.7	87.4	58.4	43.9
75°	415.8	364.6	306.2	255.2	226.1	196.8	145.8	102.0	65.5	43.9	29.1
77.5°	284.5	262.6	218.7	175.2	160.4	138.7	94.8	65.5	43.9	29.1	14.5
80°	196.8	175.2	145.8	116.8	102.0	87.4	58.4	43.9	21.9	14.5	7.4
82.5°	123.9	102.0	87.4	72.9	65.5	51.0	36.5	21.9	14.5	7.4	7.4
85°	65.5	58.4	51.0	36.5	36.5	29.1	21.9	14.5	7.4	0.0	0.0
87.5°	36.5	29.1	21.9	14.5	14.5	7.4	7.4	7.4	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°	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5
2.5°	7672.3	7672.3	7664.9	7752.4	7650.4	7752.4	7701.4	7752.4	7679.5	7672.3	7679.5
5°	7730.5	7752.4	7759.8	7839.8	7745.3	7869.2	7825.3	7869.2	7818.2	7832.7	7854.6
7.5°	7847.2	7883.7	7876.6	7978.5	7883.7	8022.4	7993.1	8058.8	8007.6	8022.4	8051.4
10°	7978.5	8022.4	8029.5	8131.8	8044.0	8211.8	8175.3	8248.3	8204.7	8226.6	8263.1
12.5°	8131.8	8182.7	8190.1	8306.6	8211.8	8387.0	8365.0	8437.9	8401.5	8423.4	8467.3
15°	8248.3	8321.2	8336.0	8452.5	8350.5	8532.8	8518.3	8613.1	8554.7	8591.2	8627.6
17.5°	8306.6	8372.4	8401.5	8510.9	8423.4	8605.7	8591.2	8671.5	8627.6	8664.1	8707.9
20°	8270.2	8350.5	8372.4	8481.8	8394.4	8576.6	8554.7	8635.0	8591.2	8620.2	8664.1
22.5°	8138.9	8219.2	8248.3	8350.5	8270.2	8437.9	8430.8	8503.7	8445.3	8481.8	8518.3
25°	7905.6	7993.1	8007.6	8102.4	8015.0	8190.1	8175.3	8255.7	8211.8	8233.7	8284.7
27.5°	7570.1	7672.3	7694.0	7774.3	7708.8	7854.6	7854.6	7920.1	7869.2	7869.2	7920.1
30°	7169.1	7271.1	7285.6	7351.4	7293.0	7424.3	7431.7	7497.2	7416.9	7460.7	7468.1
32.5°	6680.3	6746.1	6789.7	6848.1	6760.7	6928.4	6906.5	6957.5	6913.9	6913.9	6950.3
35°	6089.6	6169.9	6191.9	6264.8	6191.9	6322.9	6322.9	6352.2	6308.4	6308.4	6366.8
37.5°	5447.9	5506.3	5513.5	5586.4	5528.0	5637.4	5630.2	5652.2	5608.3	5637.4	5637.4
40°	4696.6	4740.5	4755.0	4791.4	4784.3	4864.4	4857.2	4871.8	4849.8	4857.2	4871.8
42.5°	3821.6	3879.8	3909.1	3938.1	3894.6	4003.9	3982.0	4003.9	3996.5	4003.9	4025.9
45°	2815.1	2859.0	2880.6	2888.0	2873.5	2939.0	2990.0	2946.4	2953.5	2939.0	2968.3
47.5°	2034.7	2042.1	2027.3	2071.2	2034.7	2064.1	2078.6	2085.7	2042.1	2034.7	2064.1
50°	1393.0	1429.5	1378.5	1400.2	1393.0	1422.1	1407.6	1415.0	1371.1	1393.0	1378.5
52.5°	926.2	918.8	904.3	911.7	897.2	897.2	897.2	911.7	882.4	867.8	853.3
55°	561.7	546.9	517.8	510.4	510.4	517.8	503.3	488.7	488.7	481.3	481.3
57.5°	328.1	306.2	291.7	284.5	269.7	262.6	255.2	255.2	240.7	240.7	240.7
60°	182.3	160.4	145.8	131.3	131.3	123.9	116.8	109.4	109.4	109.4	102.0
62.5°	94.8	80.3	65.5	58.4	58.4	51.0	43.9	43.9	43.9	43.9	36.5
65°	65.5	51.0	43.9	36.5	36.5	29.1	29.1	29.1	29.1	29.1	29.1
67.5°	51.0	43.9	36.5	29.1	29.1	29.1	21.9	21.9	21.9	21.9	21.9
70°	43.9	29.1	29.1	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
72.5°	29.1	29.1	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
75°	21.9	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
77.5°	7.4	7.4	7.4	7.4	7.4	7.4	0.0	0.0	0.0	0.0	0.0
80°	7.4	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: P684824

CATALOG NUMBER: LX6C130D010 EX61309030 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5	7628.5
2.5°	7745.3	7737.9	7745.3	7759.8	7730.5	7818.2	7774.3	7818.2
5°	7913.0	7920.1	7927.5	7949.5	7913.0	8022.4	7964.0	8029.5
7.5°	8131.8	8138.9	8146.3	8168.2	8146.3	8255.7	8190.1	8248.3
10°	8357.9	8372.4	8372.4	8408.9	8387.0	8488.9	8445.3	8518.3
12.5°	8569.2	8583.8	8598.6	8620.2	8605.7	8715.1	8678.6	8737.0
15°	8737.0	8766.0	8773.4	8802.5	8788.0	8904.7	8860.9	8919.3
17.5°	8817.3	8846.4	8846.4	8882.8	8868.3	8992.2	8933.8	8999.6
20°	8773.4	8795.4	8802.5	8839.2	8824.4	8948.6	8890.2	8970.3
22.5°	8635.0	8642.2	8649.6	8686.0	8678.6	8788.0	8737.0	8788.0
25°	8379.6	8401.5	8394.4	8423.4	8423.4	8510.9	8452.5	8496.3
27.5°	8015.0	8036.9	8036.9	8073.4	8044.0	8131.8	8073.4	8138.9
30°	7570.1	7592.0	7577.5	7606.6	7577.5	7664.9	7621.1	7643.0
32.5°	7037.8	7037.8	7044.9	7052.3	7037.8	7117.8	7074.2	7117.8
35°	6403.2	6417.7	6425.1	6432.5	6417.7	6476.1	6425.1	6454.2
37.5°	5688.6	5725.1	5717.7	5725.1	5703.1	5776.1	5732.2	5747.0
40°	4922.7	4922.7	4915.3	4930.1	4908.2	4966.6	4937.3	4951.8
42.5°	4033.0	4054.9	4025.9	4062.3	4003.9	4084.0	4054.9	4033.0
45°	3026.7	2997.4	2990.0	2997.4	2975.5	2982.9	3004.8	2990.0
47.5°	2064.1	2064.1	2049.2	2027.3	2056.6	2064.1	2034.7	2034.7
50°	1385.6	1385.6	1371.1	1363.7	1378.5	1371.1	1356.6	1378.5
52.5°	882.4	853.3	853.3	867.8	853.3	838.8	860.7	845.9
55°	481.3	466.8	466.8	481.3	466.8	466.8	459.4	473.9
57.5°	233.3	240.7	233.3	233.3	233.3	233.3	226.1	233.3
60°	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
62.5°	43.9	43.9	36.5	36.5	36.5	36.5	36.5	36.5
65°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
67.5°	21.9	21.9	21.9	21.9	21.9	29.1	21.9	21.9
70°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
72.5°	21.9	21.9	29.1	29.1	29.1	29.1	29.1	29.1
75°	14.5	14.5	14.5	7.4	7.4	7.4	7.4	7.4
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)