

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: P684829

Luminaire Tested: **LX6C130D010 EX61309035 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684829
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 EX61309035 6LCSWLI
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

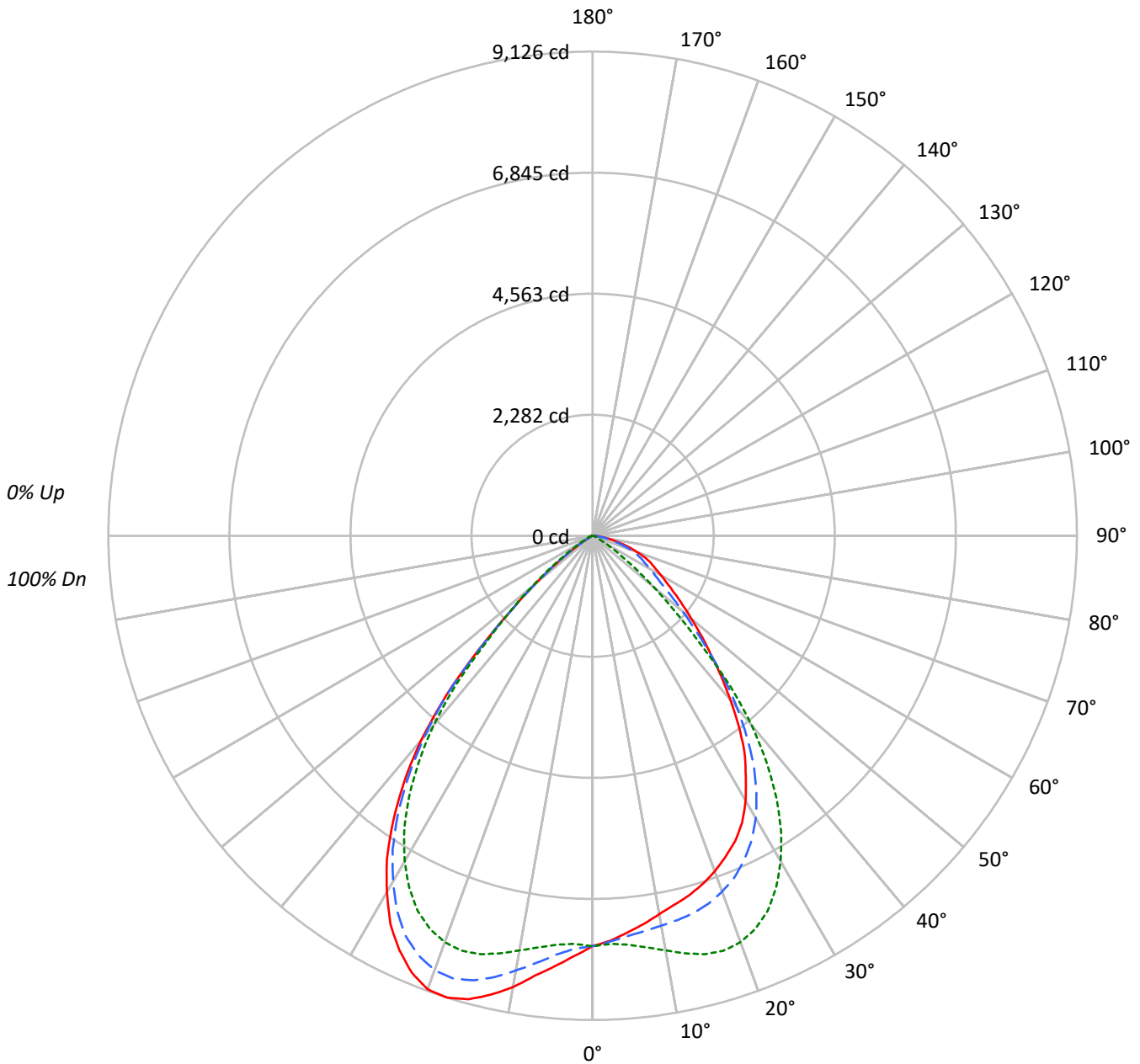
Lumens per Lamp: N/A
Luminaire Lumens: 14140.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
Input Voltage (V):
Input Current (A_{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°	424072	424072	424072
5°	413074	425692	448073
10°	403026	441725	480842
15°	398317	463374	513317
20°	392606	475452	530664
25°	384270	471935	521147
30°	365157	448487	490613
35°	334073	404356	438005
40°	288970	333940	359345
45°	243684	219030	235063
50°	206884	126776	119220
55°	179540	60786	45934
60°	162158	28375	11337
65°	157319	16292	3827
70°	141049	13047	3558
75°	115923	9425	1589
80°	86343	4641	0
85°	74473	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.2	5.3
10°-20°	2277.2	16.1
20°-30°	3479.3	24.6
30°-40°	3639.1	25.7
40°-50°	2360.7	16.7
50°-60°	937.3	6.6
60°-70°	444.6	3.1
70°-80°	211.5	1.5
80°-90°	43.1	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°	6503.7	46.0
0°-40°	10142.8	71.7
0°-60°	13440.8	95.1
0°-90°	14140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14140.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7736	7736	7736	7736	7736	
5°	7506	7573	7736	7928	8142	709
15°	7018	7358	8165	8675	9045	1978
25°	6353	6752	7802	8327	8616	2909
35°	4992	5295	6042	6397	6545	3087
45°	3143	3114	2825	2995	3032	2446
55°	1878	1598	636	496	481	1702
65°	1213	1006	126	30	30	1185
75°	547	444	44	15	8	590
85°	118	74	0	0	0	138
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°	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7
2.5°	7639.5	7654.3	7573.1	7550.9	7610.1	7632.0	7639.5	7617.3	7624.8	7654.3	7654.3
5°	7506.4	7521.1	7447.2	7425.0	7484.2	7499.2	7521.1	7513.9	7536.1	7580.3	7573.1
7.5°	7380.8	7403.0	7321.6	7292.1	7366.0	7403.0	7417.7	7417.7	7447.2	7506.4	7513.9
10°	7240.1	7269.9	7195.9	7180.9	7262.3	7299.3	7306.8	7321.6	7366.0	7447.2	7461.9
12.5°	7122.0	7151.4	7099.7	7077.5	7166.2	7203.1	7217.9	7247.6	7299.3	7403.0	7417.7
15°	7018.3	7040.5	6981.3	6966.6	7055.3	7099.7	7107.0	7151.4	7217.9	7336.3	7358.5
17.5°	6885.2	6899.9	6855.7	6841.0	6929.6	6973.8	6981.3	7033.0	7114.5	7232.9	7269.9
20°	6729.8	6744.8	6700.3	6685.6	6774.2	6825.9	6833.4	6877.9	6973.8	7099.7	7136.7
22.5°	6544.9	6574.7	6523.0	6508.0	6596.9	6641.1	6663.3	6700.3	6796.5	6922.1	6973.8
25°	6352.9	6352.9	6315.9	6308.4	6389.8	6441.5	6434.0	6485.7	6581.9	6707.8	6752.0
27.5°	6101.3	6093.8	6056.8	6049.6	6138.3	6182.7	6167.7	6219.7	6308.4	6434.0	6478.5
30°	5768.6	5783.3	5731.6	5716.6	5790.8	5864.7	5857.2	5908.9	5997.6	6116.0	6145.8
32.5°	5369.1	5383.9	5376.6	5354.4	5420.8	5457.8	5480.0	5517.0	5591.0	5716.6	5746.3
35°	4991.9	4969.7	4940.2	4940.2	5006.7	5065.9	5043.6	5088.1	5162.1	5287.7	5295.2
37.5°	4526.1	4518.6	4503.8	4489.1	4563.0	4577.8	4585.3	4614.7	4681.5	4784.9	4770.1
40°	4038.0	4045.2	4038.0	4008.2	4052.7	4111.9	4104.4	4119.4	4178.3	4252.3	4230.3
42.5°	3579.3	3579.3	3579.3	3549.9	3601.6	3631.3	3646.0	3638.5	3653.3	3720.0	3690.2
45°	3143.2	3150.4	3143.2	3135.7	3143.2	3157.9	3143.2	3135.7	3135.7	3157.9	3113.5
47.5°	2766.0	2766.0	2743.8	2721.5	2743.8	2751.0	2729.0	2706.8	2699.3	2692.1	2618.1
50°	2425.8	2418.3	2411.1	2374.1	2396.0	2403.5	2374.1	2359.1	2329.6	2292.6	2204.0
52.5°	2130.0	2122.5	2115.0	2078.1	2093.1	2100.3	2070.8	2041.1	2004.1	1974.7	1863.7
55°	1878.5	1871.0	1871.0	1849.0	1834.0	1849.0	1819.3	1797.0	1745.3	1708.4	1597.5
57.5°	1663.9	1663.9	1649.2	1626.9	1634.4	1634.4	1605.0	1575.2	1530.7	1486.5	1397.9
60°	1479.0	1479.0	1479.0	1456.8	1456.8	1456.8	1442.1	1412.6	1375.6	1331.2	1242.5
62.5°	1331.2	1331.2	1323.7	1301.7	1308.9	1308.9	1294.2	1264.7	1227.8	1198.0	1109.4
65°	1212.8	1212.8	1212.8	1190.8	1190.8	1198.0	1183.3	1153.8	1124.1	1087.1	1005.7
67.5°	1064.9	1057.7	1057.7	1042.6	1050.1	1057.7	1042.6	1020.7	983.7	961.5	887.5
70°	880.0	887.5	894.8	872.8	880.0	880.0	872.8	850.6	828.3	806.1	739.7
72.5°	717.4	717.4	709.9	702.7	702.7	709.9	695.2	672.9	658.2	643.5	591.5
75°	547.3	539.8	547.3	532.6	532.6	532.6	517.6	510.3	502.8	480.6	443.6
77.5°	399.4	391.9	391.9	377.2	384.7	384.7	377.2	362.5	347.5	340.2	310.5
80°	273.5	273.5	273.5	266.3	266.3	258.8	258.8	251.6	236.5	229.3	214.6
82.5°	184.8	184.8	184.8	177.6	177.6	177.6	170.1	162.6	155.4	147.9	133.1
85°	118.4	118.4	118.4	110.9	110.9	110.9	103.4	103.4	96.2	88.7	73.9
87.5°	66.4	66.4	66.4	59.2	59.2	59.2	59.2	59.2	51.7	44.5	37.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7
2.5°	7706.0	7602.6	7669.0	7669.0	7647.0	7706.0	7743.2	7772.7	7765.2	7698.7	7691.2
5°	7647.0	7558.1	7632.0	7639.5	7617.3	7698.7	7750.5	7787.4	7794.9	7735.7	7743.2
7.5°	7602.6	7528.6	7624.8	7654.3	7647.0	7721.0	7780.2	7839.1	7868.9	7824.4	7831.9
10°	7580.3	7521.1	7624.8	7669.0	7676.5	7758.0	7846.6	7928.1	7965.0	7935.3	7957.5
12.5°	7550.9	7513.9	7632.0	7698.7	7728.2	7809.7	7920.6	8016.7	8075.9	8061.2	8105.4
15°	7521.1	7491.7	7632.0	7728.2	7765.2	7839.1	7965.0	8105.4	8172.1	8164.6	8223.8
17.5°	7447.2	7440.0	7587.8	7691.2	7743.2	7831.9	7950.0	8120.1	8186.9	8201.6	8275.5
20°	7329.1	7329.1	7491.7	7602.6	7661.8	7743.2	7891.1	8053.7	8135.2	8149.9	8231.3
22.5°	7166.2	7180.9	7336.3	7447.2	7536.1	7595.1	7750.5	7920.6	7994.5	8016.7	8105.4
25°	6951.9	6966.6	7114.5	7225.4	7321.6	7388.0	7536.1	7691.2	7780.2	7802.2	7868.9
27.5°	6670.8	6700.3	6841.0	6951.9	7033.0	7077.5	7232.9	7395.5	7461.9	7484.2	7550.9
30°	6345.3	6352.9	6493.2	6589.4	6670.8	6707.8	6841.0	7011.1	7062.8	7085.0	7180.9
32.5°	5945.9	5938.7	6071.8	6160.5	6226.9	6271.4	6411.8	6523.0	6574.7	6611.6	6663.3
35°	5465.3	5457.8	5554.0	5657.7	5709.4	5724.1	5864.7	5982.9	6012.6	6042.1	6108.8
37.5°	4925.5	4925.5	5006.7	5058.7	5117.6	5139.8	5206.5	5339.7	5391.4	5383.9	5435.6
40°	4356.0	4326.5	4385.4	4437.4	4452.1	4459.4	4526.1	4629.5	4666.4	4666.4	4703.4
42.5°	3757.0	3712.5	3720.0	3749.4	3764.2	3712.5	3757.0	3823.4	3801.1	3830.9	3838.4
45°	3121.0	3054.3	3024.8	2958.1	2973.1	2921.1	2891.7	2906.4	2899.2	2825.2	2840.0
47.5°	2603.1	2485.0	2433.0	2337.1	2314.9	2255.7	2218.7	2152.0	2093.1	2093.1	2055.8
50°	2167.0	2048.6	1944.9	1834.0	1797.0	1745.3	1663.9	1575.2	1530.7	1486.5	1449.6
52.5°	1819.3	1693.6	1567.7	1449.6	1397.9	1331.2	1220.3	1131.6	1050.1	1005.7	961.5
55°	1538.2	1397.9	1264.7	1138.8	1072.4	1005.7	894.8	791.4	695.2	636.0	599.0
57.5°	1323.7	1190.8	1050.1	917.0	857.8	783.9	665.7	554.5	465.9	399.4	362.5
60°	1168.6	1035.4	909.8	769.1	709.9	636.0	510.3	406.7	318.0	258.8	214.6
62.5°	1035.4	917.0	783.9	658.2	599.0	525.1	406.7	303.3	221.8	162.6	125.6
65°	939.2	820.8	709.9	584.3	532.6	458.6	347.5	251.6	177.6	125.6	88.7
67.5°	828.3	724.7	613.7	510.3	458.6	399.4	295.8	214.6	147.9	103.4	73.9
70°	695.2	613.7	517.6	421.7	384.7	332.7	244.1	177.6	118.4	81.4	59.2
72.5°	554.5	488.1	414.2	340.2	310.5	258.8	199.6	140.6	88.7	59.2	44.5
75°	421.7	369.7	310.5	258.8	229.3	199.6	147.9	103.4	66.4	44.5	29.5
77.5°	288.5	266.3	221.8	177.6	162.6	140.6	96.2	66.4	44.5	29.5	14.7
80°	199.6	177.6	147.9	118.4	103.4	88.7	59.2	44.5	22.2	14.7	7.5
82.5°	125.6	103.4	88.7	73.9	66.4	51.7	37.0	22.2	14.7	7.5	7.5
85°	66.4	59.2	51.7	37.0	37.0	29.5	22.2	14.7	7.5	0.0	0.0
87.5°	37.0	29.5	22.2	14.7	14.7	7.5	7.5	7.5	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°	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7
2.5°	7780.2	7780.2	7772.7	7861.4	7758.0	7861.4	7809.7	7861.4	7787.4	7780.2	7787.4
5°	7839.1	7861.4	7868.9	7950.0	7854.1	7979.8	7935.3	7979.8	7928.1	7942.8	7965.0
7.5°	7957.5	7994.5	7987.3	8090.7	7994.5	8135.2	8105.4	8172.1	8120.1	8135.2	8164.6
10°	8090.7	8135.2	8142.4	8246.1	8157.1	8327.2	8290.3	8364.2	8320.0	8342.2	8379.2
12.5°	8246.1	8297.8	8305.3	8423.4	8327.2	8504.8	8482.6	8556.5	8519.6	8541.8	8586.3
15°	8364.2	8438.1	8453.1	8571.3	8467.9	8652.7	8638.0	8734.2	8675.0	8711.9	8748.9
17.5°	8423.4	8490.1	8519.6	8630.5	8541.8	8726.7	8711.9	8793.4	8748.9	8785.9	8830.3
20°	8386.4	8467.9	8490.1	8601.0	8512.3	8697.2	8675.0	8756.4	8711.9	8741.4	8785.9
22.5°	8253.3	8334.7	8364.2	8467.9	8386.4	8556.5	8549.3	8623.3	8564.0	8601.0	8638.0
25°	8016.7	8105.4	8120.1	8216.3	8127.6	8305.3	8290.3	8371.7	8327.2	8349.5	8401.2
27.5°	7676.5	7780.2	7802.2	7883.6	7817.2	7965.0	7965.0	8031.5	7979.8	7979.8	8031.5
30°	7269.9	7373.3	7388.0	7454.7	7395.5	7528.6	7536.1	7602.6	7521.1	7565.6	7573.1
32.5°	6774.2	6841.0	6885.2	6944.4	6855.7	7025.8	7003.6	7055.3	7011.1	7011.1	7048.0
35°	6175.2	6256.7	6278.9	6352.9	6278.9	6411.8	6411.8	6441.5	6397.0	6397.0	6456.3
37.5°	5524.5	5583.7	5591.0	5664.9	5605.7	5716.6	5709.4	5731.6	5687.1	5716.6	5716.6
40°	4762.6	4807.1	4821.8	4858.8	4851.6	4932.7	4925.5	4940.2	4918.0	4925.5	4940.2
42.5°	3875.4	3934.3	3964.0	3993.5	3949.3	4060.2	4038.0	4060.2	4052.7	4060.2	4082.4
45°	2854.7	2899.2	2921.1	2928.6	2913.9	2980.3	3032.0	2987.8	2995.1	2980.3	3010.1
47.5°	2063.3	2070.8	2055.8	2100.3	2063.3	2093.1	2107.8	2115.0	2070.8	2063.3	2093.1
50°	1412.6	1449.6	1397.9	1419.8	1412.6	1442.1	1427.3	1434.8	1390.4	1412.6	1397.9
52.5°	939.2	931.7	917.0	924.5	909.8	909.8	909.8	924.5	894.8	880.0	865.3
55°	569.5	554.5	525.1	517.6	517.6	525.1	510.3	495.6	495.6	488.1	488.1
57.5°	332.7	310.5	295.8	288.5	273.5	266.3	258.8	258.8	244.1	244.1	244.1
60°	184.8	162.6	147.9	133.1	133.1	125.6	118.4	110.9	110.9	110.9	103.4
62.5°	96.2	81.4	66.4	59.2	59.2	51.7	44.5	44.5	44.5	44.5	37.0
65°	66.4	51.7	44.5	37.0	37.0	29.5	29.5	29.5	29.5	29.5	29.5
67.5°	51.7	44.5	37.0	29.5	29.5	29.5	22.2	22.2	22.2	22.2	22.2
70°	44.5	29.5	29.5	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
72.5°	29.5	29.5	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
75°	22.2	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
77.5°	7.5	7.5	7.5	7.5	7.5	7.5	0.0	0.0	0.0	0.0	0.0
80°	7.5	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: P684829

CATALOG NUMBER: LX6C130D010 EX61309035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7	7735.7
2.5°	7854.1	7846.6	7854.1	7868.9	7839.1	7928.1	7883.6	7928.1
5°	8024.2	8031.5	8039.0	8061.2	8024.2	8135.2	8075.9	8142.4
7.5°	8246.1	8253.3	8260.8	8283.0	8260.8	8371.7	8305.3	8364.2
10°	8475.4	8490.1	8490.1	8527.1	8504.8	8608.2	8564.0	8638.0
12.5°	8689.7	8704.4	8719.4	8741.4	8726.7	8837.6	8800.6	8859.8
15°	8859.8	8889.3	8896.8	8926.2	8911.5	9029.9	8985.4	9044.6
17.5°	8941.2	8970.7	8970.7	9007.7	8992.9	9118.6	9059.4	9126.1
20°	8896.8	8919.0	8926.2	8963.5	8948.5	9074.4	9015.2	9096.3
22.5°	8756.4	8763.6	8771.1	8808.1	8800.6	8911.5	8859.8	8911.5
25°	8497.3	8519.6	8512.3	8541.8	8541.8	8630.5	8571.3	8615.8
27.5°	8127.6	8149.9	8149.9	8186.9	8157.1	8246.1	8186.9	8253.3
30°	7676.5	7698.7	7684.0	7713.5	7684.0	7772.7	7728.2	7750.5
32.5°	7136.7	7136.7	7143.9	7151.4	7136.7	7217.9	7173.7	7217.9
35°	6493.2	6508.0	6515.5	6523.0	6508.0	6567.2	6515.5	6544.9
37.5°	5768.6	5805.5	5798.0	5805.5	5783.3	5857.2	5812.8	5827.8
40°	4991.9	4991.9	4984.4	4999.4	4977.2	5036.4	5006.7	5021.4
42.5°	4089.7	4111.9	4082.4	4119.4	4060.2	4141.4	4111.9	4089.7
45°	3069.3	3039.5	3032.0	3039.5	3017.3	3024.8	3047.0	3032.0
47.5°	2093.1	2093.1	2078.1	2055.8	2085.6	2093.1	2063.3	2063.3
50°	1405.1	1405.1	1390.4	1382.9	1397.9	1390.4	1375.6	1397.9
52.5°	894.8	865.3	865.3	880.0	865.3	850.6	872.8	857.8
55°	488.1	473.4	473.4	488.1	473.4	473.4	465.9	480.6
57.5°	236.5	244.1	236.5	236.5	236.5	236.5	229.3	236.5
60°	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4
62.5°	44.5	44.5	37.0	37.0	37.0	37.0	37.0	37.0
65°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
67.5°	22.2	22.2	22.2	22.2	22.2	29.5	22.2	22.2
70°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
72.5°	22.2	22.2	29.5	29.5	29.5	29.5	29.5	29.5
75°	14.7	14.7	14.7	7.5	7.5	7.5	7.5	7.5
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)