

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: P684018

Luminaire Tested: **LX6C130D010 EX6C1309040 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684018  
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 EX6C1309040 6LCSWH  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

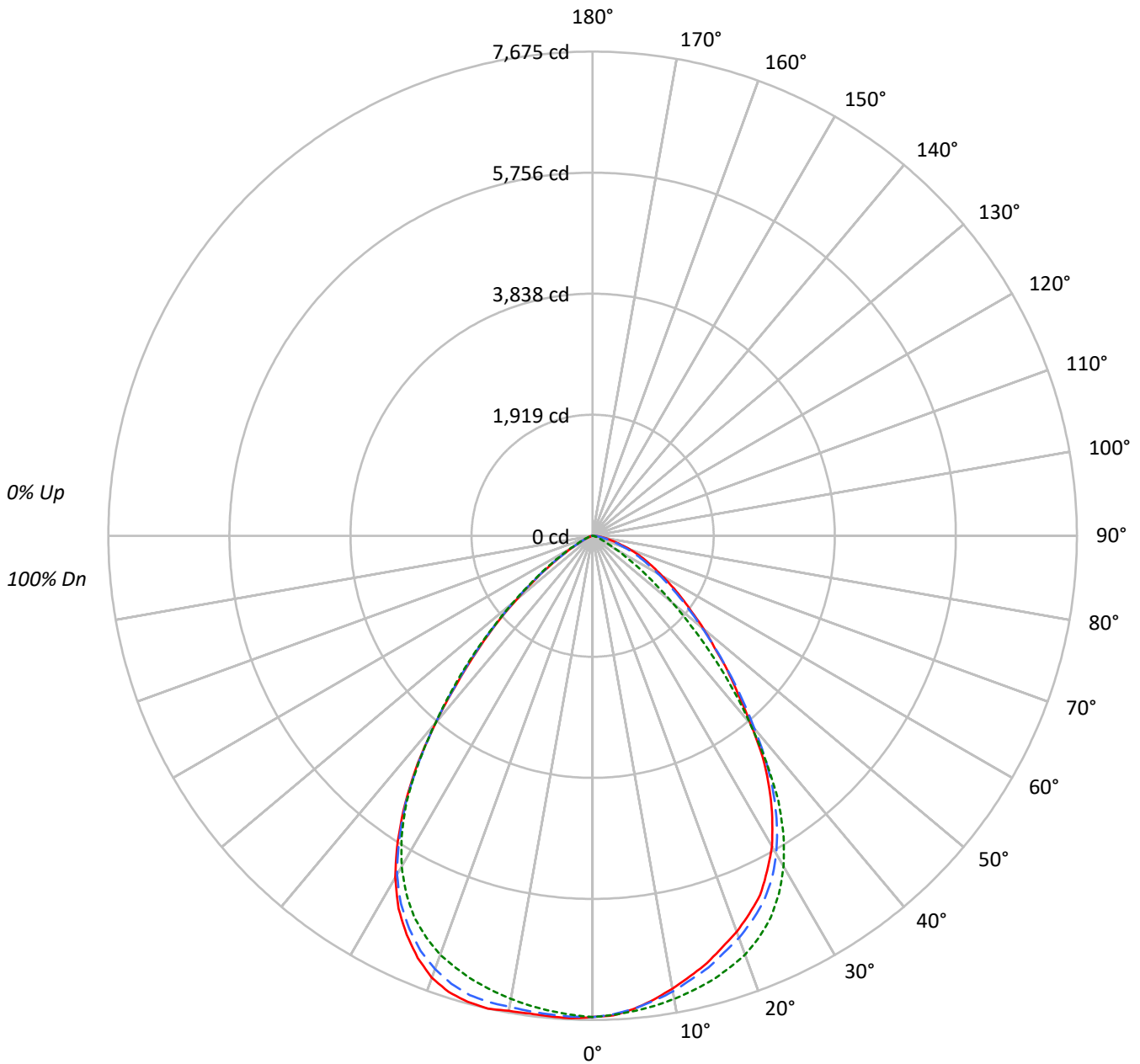
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12799.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 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): 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				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	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72	72	72	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64	64	64	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

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

	0°	90°	180°
0°	418229	418229	418229
5°	414241	416260	420839
10°	405704	414922	425705
15°	397942	414145	434026
20°	389689	412266	434843
25°	380090	404043	421875
30°	359865	383179	396010
35°	326805	343456	346534
40°	278915	277577	276268
45°	234288	207859	201432
50°	195678	140652	133590
55°	164678	86296	78382
60°	139419	45468	39394
65°	120713	23907	19107
70°	100402	14778	10322
75°	74197	9764	5867
80°	58183	5809	2968
85°	46420	5913	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	719.0	5.6
10°-20°	2058.7	16.1
20°-30°	3039.9	23.8
30°-40°	3132.9	24.5
40°-50°	2163.9	16.9
50°-60°	1066.6	8.3
60°-70°	432.2	3.4
70°-80°	154.1	1.2
80°-90°	31.9	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°	5817.6	45.5
0°-40°	8950.5	69.9
0°-60°	12180.9	95.2
0°-90°	12799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7629	7629	7629	7629	7629	
5°	7528	7528	7564	7620	7648	711
15°	7012	7086	7297	7537	7648	1974
25°	6284	6404	6680	6874	6975	2873
35°	4883	5003	5132	5160	5178	3026
45°	3022	3040	2681	2644	2598	2336
55°	1723	1659	903	848	820	1557
65°	931	838	184	147	147	924
75°	350	295	46	28	28	393
85°	74	55	9	0	0	90
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°	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1
2.5°	7610.4	7583.0	7601.4	7564.3	7610.4	7564.3	7573.7	7583.0	7573.7	7583.0	7592.1
5°	7527.6	7499.9	7527.6	7481.5	7527.6	7499.9	7499.9	7509.2	7509.2	7518.3	7527.6
7.5°	7417.1	7389.4	7417.1	7371.0	7426.1	7398.7	7398.7	7417.1	7407.7	7417.1	7435.4
10°	7288.2	7251.1	7278.8	7251.1	7306.6	7269.5	7288.2	7288.2	7288.2	7315.6	7334.3
12.5°	7150.0	7112.9	7150.0	7103.9	7159.0	7131.6	7140.6	7168.3	7177.3	7196.0	7205.0
15°	7011.7	6965.6	6984.0	6956.3	7011.7	6984.0	6993.3	7030.1	7030.1	7057.8	7085.5
17.5°	6836.7	6799.7	6836.7	6799.7	6845.7	6827.4	6845.7	6873.5	6873.5	6901.2	6928.5
20°	6679.8	6643.1	6670.8	6643.1	6698.5	6670.8	6679.8	6716.9	6725.9	6753.6	6781.3
22.5°	6486.4	6458.7	6477.1	6449.7	6504.8	6486.4	6495.8	6532.5	6541.9	6560.2	6606.3
25°	6283.8	6228.3	6256.0	6237.7	6293.1	6265.4	6283.8	6320.5	6339.2	6366.6	6403.6
27.5°	5988.9	5961.2	5979.5	5979.5	6025.6	5998.3	6007.3	6044.3	6071.7	6099.4	6145.5
30°	5685.0	5639.0	5657.3	5666.3	5703.4	5685.0	5703.4	5740.1	5749.5	5786.2	5822.9
32.5°	5298.0	5279.3	5316.4	5298.0	5316.4	5316.4	5325.4	5353.1	5371.5	5390.2	5436.3
35°	4883.3	4846.6	4883.3	4864.9	4911.0	4883.3	4911.0	4938.7	4938.7	4975.4	5003.2
37.5°	4431.8	4385.7	4404.1	4404.1	4422.5	4413.5	4413.5	4459.5	4468.5	4496.3	4524.0
40°	3897.5	3878.8	3915.9	3906.6	3915.9	3915.9	3924.9	3952.6	3971.0	3980.4	3989.7
42.5°	3418.4	3427.4	3436.7	3436.7	3436.7	3436.7	3436.7	3473.5	3464.4	3492.2	3501.2
45°	3022.0	2985.3	3003.6	2994.6	3022.0	2994.6	3022.0	3049.7	3031.3	3059.1	3040.4
47.5°	2616.6	2616.6	2616.6	2607.6	2626.0	2616.6	2635.0	2644.3	2644.3	2644.3	2635.0
50°	2294.4	2266.7	2275.7	2275.7	2285.0	2275.7	2294.4	2303.4	2303.4	2285.0	2248.3
52.5°	1980.8	1971.8	1971.8	1990.2	1990.2	1980.8	1980.8	1980.8	1980.8	1953.5	1934.7
55°	1723.0	1704.7	1713.7	1713.7	1713.7	1713.7	1723.0	1713.7	1713.7	1686.0	1658.6
57.5°	1492.6	1474.3	1474.3	1474.3	1483.3	1474.3	1474.3	1474.3	1464.9	1437.2	1400.5
60°	1271.6	1262.2	1271.6	1271.6	1280.6	1271.6	1271.6	1271.6	1253.2	1225.5	1188.4
62.5°	1087.3	1087.3	1087.3	1096.3	1096.3	1087.3	1087.3	1077.9	1068.9	1031.8	995.1
65°	930.6	921.3	930.6	930.6	939.7	939.7	930.6	921.3	912.3	875.2	838.5
67.5°	774.0	764.7	774.0	774.0	783.0	774.0	774.0	774.0	746.3	728.0	690.9
70°	626.4	617.4	617.4	617.4	626.4	608.1	617.4	617.4	599.1	571.3	534.3
72.5°	479.2	479.2	479.2	479.2	479.2	479.2	469.8	469.8	451.5	423.7	405.4
75°	350.3	350.3	359.3	359.3	350.3	350.3	350.3	340.9	331.6	313.2	294.9
77.5°	258.1	258.1	258.1	258.1	248.8	248.8	248.8	239.4	230.4	221.1	202.7
80°	184.3	184.3	184.3	175.0	184.3	175.0	175.0	175.0	156.6	147.3	138.2
82.5°	128.9	119.9	119.9	119.9	119.9	119.9	119.9	110.5	110.5	101.5	92.2
85°	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	64.4	55.4	55.4
87.5°	36.7	46.1	46.1	46.1	46.1	46.1	46.1	36.7	36.7	36.7	27.7
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°	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1
2.5°	7592.1	7592.1	7610.4	7583.0	7629.1	7601.4	7592.1	7638.1	7610.4	7601.4	7619.8
5°	7527.6	7537.0	7546.0	7527.6	7573.7	7546.0	7546.0	7592.1	7573.7	7564.3	7592.1
7.5°	7444.8	7453.8	7472.2	7463.2	7499.9	7481.5	7490.9	7537.0	7518.3	7518.3	7546.0
10°	7343.3	7361.6	7380.4	7380.4	7426.1	7407.7	7407.7	7463.2	7444.8	7453.8	7490.9
12.5°	7223.4	7251.1	7278.8	7288.2	7334.3	7306.6	7315.6	7380.4	7371.0	7380.4	7417.1
15°	7094.5	7131.6	7159.0	7159.0	7214.4	7186.7	7214.4	7278.8	7260.5	7297.2	7343.3
17.5°	6947.3	6984.0	7020.7	7030.1	7085.5	7066.8	7103.9	7168.3	7168.3	7186.7	7242.1
20°	6809.0	6855.1	6873.5	6901.2	6956.3	6947.3	6965.6	7039.4	7039.4	7066.8	7122.2
22.5°	6624.7	6670.8	6707.5	6735.2	6781.3	6781.3	6809.0	6873.5	6873.5	6891.8	6947.3
25°	6422.0	6477.1	6504.8	6532.5	6578.6	6569.3	6597.0	6652.4	6661.4	6679.8	6735.2
27.5°	6163.9	6210.0	6247.0	6265.4	6329.8	6293.1	6320.5	6385.3	6375.9	6394.3	6440.4
30°	5841.6	5887.7	5924.5	5924.5	5979.5	5979.5	6007.3	6035.0	6035.0	6053.3	6090.4
32.5°	5463.6	5519.1	5519.1	5546.8	5583.5	5546.8	5583.5	5620.2	5601.9	5629.6	5657.3
35°	5030.5	5058.3	5067.6	5067.6	5095.3	5086.0	5076.6	5104.3	5086.0	5132.1	5159.8
37.5°	4505.6	4542.3	4524.0	4542.3	4533.0	4505.6	4505.6	4551.7	4514.6	4524.0	4551.7
40°	3998.7	3998.7	3989.7	3943.6	3952.6	3924.9	3915.9	3924.9	3888.2	3878.8	3915.9
42.5°	3473.5	3464.4	3436.7	3372.3	3381.3	3335.2	3298.5	3298.5	3280.1	3270.8	3280.1
45°	3003.6	2975.9	2929.8	2856.4	2837.7	2800.9	2727.1	2708.8	2681.1	2681.1	2690.4
47.5°	2570.5	2533.8	2460.0	2377.2	2331.1	2285.0	2211.2	2183.5	2137.4	2119.1	2137.4
50°	2211.2	2146.8	2054.6	1934.7	1888.7	1833.6	1759.8	1713.7	1667.6	1649.2	1639.9
52.5°	1879.7	1787.5	1695.3	1548.1	1511.0	1455.9	1354.4	1308.3	1262.2	1225.5	1225.5
55°	1593.8	1511.0	1382.1	1243.9	1188.4	1133.3	1031.8	967.4	921.3	902.9	884.6
57.5°	1336.0	1243.9	1124.0	976.7	921.3	866.2	764.7	700.2	654.2	626.4	608.1
60°	1124.0	1022.8	902.9	774.0	709.6	654.2	553.0	488.2	442.1	414.7	396.0
62.5°	921.3	838.5	718.6	599.1	543.6	488.2	405.4	340.9	294.9	276.5	248.8
65°	774.0	690.9	580.4	479.2	433.1	377.7	304.2	248.8	212.0	184.3	166.0
67.5°	626.4	562.0	469.8	377.7	331.6	294.9	230.4	184.3	147.3	128.9	119.9
70°	497.5	433.1	359.3	285.5	258.1	221.1	175.0	128.9	110.5	92.2	82.8
72.5°	368.7	322.6	267.1	212.0	184.3	166.0	119.9	101.5	73.8	64.4	55.4
75°	267.1	230.4	193.3	147.3	128.9	119.9	92.2	64.4	55.4	46.1	36.7
77.5°	184.3	166.0	128.9	101.5	92.2	82.8	64.4	46.1	36.7	27.7	27.7
80°	119.9	101.5	82.8	64.4	64.4	55.4	36.7	27.7	27.7	18.4	18.4
82.5°	73.8	64.4	55.4	46.1	36.7	36.7	27.7	18.4	18.4	9.4	9.4
85°	46.1	36.7	27.7	27.7	18.4	18.4	18.4	9.4	9.4	9.4	9.4
87.5°	18.4	18.4	18.4	9.4	9.4	9.4	9.4	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°	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1
2.5°	7619.8	7619.8	7638.1	7610.4	7629.1	7629.1	7647.5	7610.4	7629.1	7638.1	7656.5
5°	7583.0	7592.1	7610.4	7601.4	7610.4	7610.4	7629.1	7583.0	7619.8	7619.8	7647.5
7.5°	7546.0	7546.0	7564.3	7555.3	7573.7	7583.0	7601.4	7564.3	7601.4	7601.4	7629.1
10°	7499.9	7499.9	7527.6	7518.3	7546.0	7555.3	7583.0	7546.0	7583.0	7592.1	7619.8
12.5°	7435.4	7444.8	7472.2	7472.2	7499.9	7518.3	7546.0	7527.6	7573.7	7583.0	7619.8
15°	7361.6	7380.4	7417.1	7407.7	7435.4	7463.2	7499.9	7472.2	7537.0	7555.3	7592.1
17.5°	7269.5	7288.2	7315.6	7315.6	7343.3	7361.6	7407.7	7389.4	7444.8	7453.8	7499.9
20°	7131.6	7159.0	7196.0	7186.7	7214.4	7232.8	7269.5	7251.1	7306.6	7324.9	7371.0
22.5°	6965.6	6984.0	7011.7	7011.7	7039.4	7057.8	7094.5	7066.8	7122.2	7131.6	7168.3
25°	6744.6	6762.9	6781.3	6790.7	6818.0	6827.4	6845.7	6827.4	6873.5	6882.8	6928.5
27.5°	6458.7	6468.1	6495.8	6495.8	6514.2	6523.2	6550.9	6514.2	6578.6	6578.6	6606.3
30°	6117.8	6108.8	6145.5	6127.1	6145.5	6145.5	6173.2	6154.9	6200.9	6182.6	6210.0
32.5°	5666.3	5685.0	5685.0	5666.3	5703.4	5694.0	5694.0	5675.7	5703.4	5712.4	5730.8
35°	5141.4	5168.8	5168.8	5178.1	5187.5	5159.8	5168.8	5113.7	5159.8	5168.8	5178.1
37.5°	4570.1	4542.3	4560.7	4533.0	4579.1	4524.0	4524.0	4487.3	4524.0	4524.0	4533.0
40°	3915.9	3906.6	3924.9	3906.6	3897.5	3888.2	3869.8	3842.1	3878.8	3860.5	3888.2
42.5°	3298.5	3289.1	3289.1	3270.8	3261.8	3261.8	3243.4	3224.7	3215.7	3215.7	3261.8
45°	2662.7	2681.1	2662.7	2653.7	2672.0	2653.7	2662.7	2626.0	2644.3	2626.0	2644.3
47.5°	2128.4	2137.4	2119.1	2100.7	2128.4	2100.7	2100.7	2073.0	2110.1	2110.1	2091.4
50°	1649.2	1639.9	1621.5	1639.9	1630.9	1630.9	1630.9	1603.2	1621.5	1593.8	1612.5
52.5°	1216.1	1207.1	1207.1	1197.8	1207.1	1197.8	1197.8	1188.4	1188.4	1179.4	1188.4
55°	884.6	875.2	856.8	856.8	856.8	866.2	856.8	847.8	847.8	838.5	847.8
57.5°	599.1	580.4	580.4	580.4	580.4	571.3	571.3	562.0	571.3	562.0	571.3
60°	387.0	387.0	368.7	368.7	368.7	368.7	368.7	359.3	368.7	368.7	368.7
62.5°	239.4	239.4	230.4	221.1	230.4	221.1	221.1	221.1	230.4	221.1	230.4
65°	156.6	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3
67.5°	110.5	101.5	101.5	101.5	101.5	101.5	101.5	92.2	101.5	101.5	101.5
70°	73.8	73.8	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
72.5°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
75°	36.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
77.5°	27.7	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
80°	18.4	18.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
82.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
85°	9.4	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	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
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: P684018

CATALOG NUMBER: LX6C130D010 EX6C1309040 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1	7629.1
2.5°	7629.1	7638.1	7619.8	7629.1	7610.4	7629.1	7638.1	7656.5
5°	7610.4	7619.8	7601.4	7619.8	7601.4	7619.8	7629.1	7647.5
7.5°	7592.1	7610.4	7592.1	7610.4	7592.1	7610.4	7619.8	7638.1
10°	7592.1	7619.8	7601.4	7629.1	7601.4	7619.8	7638.1	7647.5
12.5°	7592.1	7619.8	7610.4	7629.1	7619.8	7638.1	7656.5	7674.9
15°	7573.7	7601.4	7583.0	7610.4	7601.4	7610.4	7647.5	7647.5
17.5°	7472.2	7499.9	7499.9	7518.3	7518.3	7546.0	7564.3	7583.0
20°	7343.3	7371.0	7361.6	7389.4	7389.4	7417.1	7435.4	7453.8
22.5°	7150.0	7186.7	7177.3	7205.0	7196.0	7214.4	7251.1	7242.1
25°	6901.2	6947.3	6937.9	6956.3	6947.3	6947.3	6965.6	6974.6
27.5°	6597.0	6624.7	6615.3	6634.0	6615.3	6634.0	6652.4	6661.4
30°	6200.9	6219.3	6210.0	6219.3	6210.0	6228.3	6237.7	6256.0
32.5°	5721.8	5749.5	5721.8	5740.1	5730.8	5730.8	5767.8	5749.5
35°	5150.4	5159.8	5168.8	5168.8	5150.4	5159.8	5178.1	5178.1
37.5°	4514.6	4560.7	4505.6	4533.0	4524.0	4524.0	4524.0	4551.7
40°	3851.5	3860.5	3842.1	3842.1	3842.1	3832.8	3869.8	3860.5
42.5°	3224.7	3234.0	3224.7	3197.3	3206.3	3206.3	3234.0	3197.3
45°	2616.6	2635.0	2626.0	2626.0	2607.6	2607.6	2616.6	2598.2
47.5°	2073.0	2091.4	2064.0	2073.0	2054.6	2073.0	2064.0	2082.3
50°	1575.4	1593.8	1584.8	1593.8	1593.8	1575.4	1603.2	1566.4
52.5°	1179.4	1188.4	1179.4	1170.1	1161.1	1161.1	1179.4	1170.1
55°	838.5	829.1	829.1	829.1	838.5	838.5	829.1	820.1
57.5°	562.0	562.0	553.0	553.0	562.0	543.6	553.0	543.6
60°	359.3	359.3	359.3	359.3	350.3	359.3	359.3	359.3
62.5°	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1
65°	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3
67.5°	92.2	101.5	101.5	101.5	92.2	92.2	92.2	92.2
70°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
72.5°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
75°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
77.5°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
80°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
82.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	9.4	9.4	9.4	9.4	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)