

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: P684010

Luminaire Tested: **LX6C130D010 EX6C1309035 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684010
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 EX6C1309035 6LCSWH
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

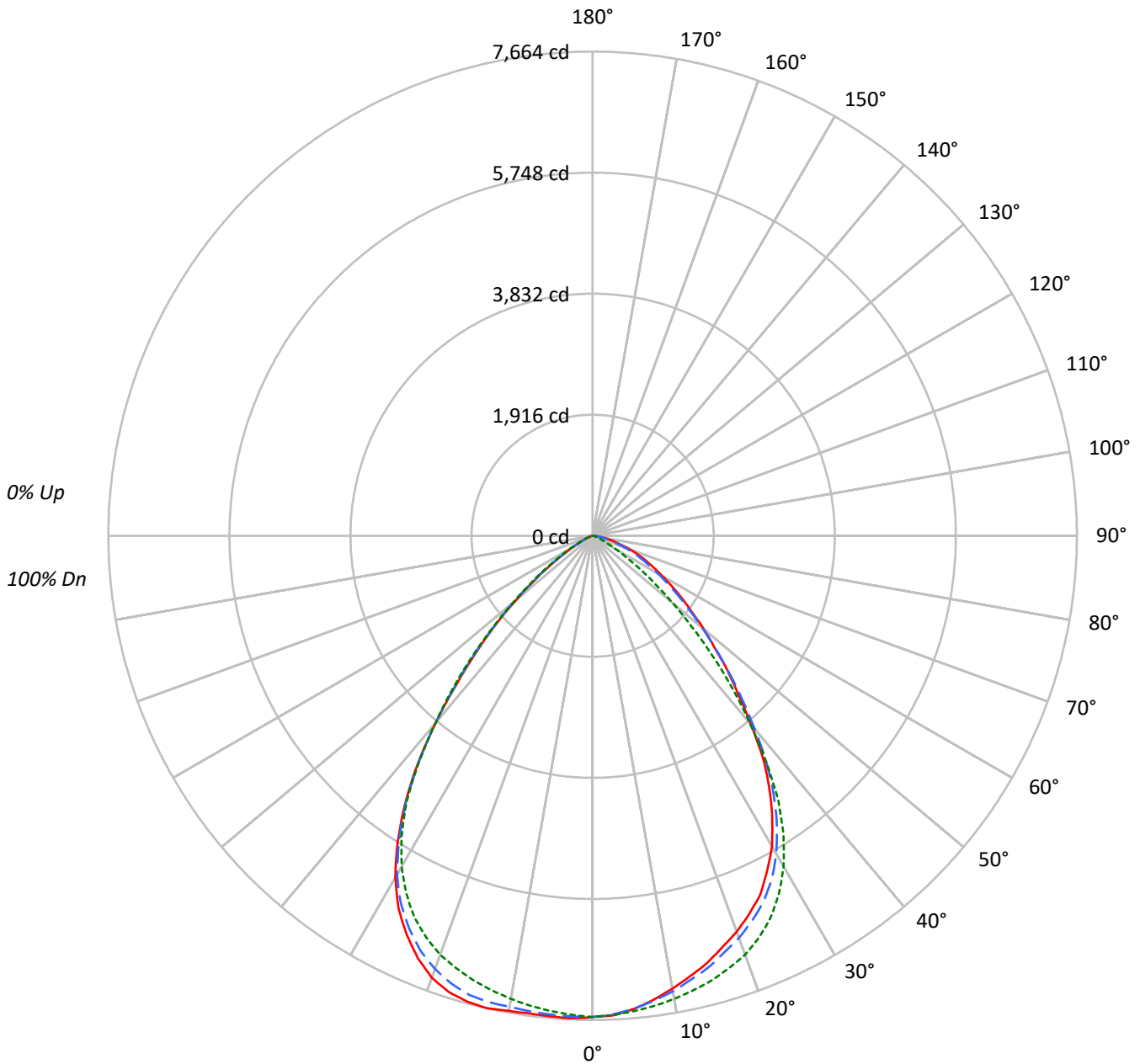
Lumens per Lamp: N/A
Luminaire Lumens: 12780.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
Input Voltage (V):
Input Current (A_{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				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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	417609	417609	417609
5°	413624	415644	420211
10°	405103	414304	425070
15°	397352	413532	433379
20°	389111	411653	434195
25°	379522	403445	421252
30°	359334	382616	395422
35°	326317	342941	346019
40°	278508	277169	275853
45°	233939	207549	201137
50°	195388	140447	133394
55°	164439	86171	78267
60°	139210	45402	39339
65°	120545	23881	19068
70°	100257	14746	10306
75°	74091	9743	5867
80°	58120	5777	2936
85°	46357	5850	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.9	5.6
10°-20°	2055.6	16.1
20°-30°	3035.4	23.8
30°-40°	3128.3	24.5
40°-50°	2160.6	16.9
50°-60°	1065.0	8.3
60°-70°	431.5	3.4
70°-80°	153.8	1.2
80°-90°	31.8	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°	5808.9	45.5
0°-40°	8937.2	69.9
0°-60°	12162.8	95.2
0°-90°	12780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12780.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7618	7618	7618	7618	7618	
5°	7516	7516	7553	7608	7636	710
15°	7001	7075	7286	7526	7636	1971
25°	6274	6394	6670	6863	6964	2868
35°	4876	4996	5124	5152	5170	3021
45°	3018	3036	2677	2640	2594	2333
55°	1720	1656	902	847	819	1555
65°	929	837	184	147	147	923
75°	350	294	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°	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8
2.5°	7599.1	7571.8	7590.1	7553.1	7599.1	7553.1	7562.5	7571.8	7562.5	7571.8	7580.8
5°	7516.4	7488.8	7516.4	7470.4	7516.4	7488.8	7488.8	7498.1	7498.1	7507.1	7516.4
7.5°	7406.1	7378.4	7406.1	7360.1	7415.1	7387.7	7387.7	7406.1	7396.7	7406.1	7424.4
10°	7277.4	7240.4	7268.0	7240.4	7295.7	7258.7	7277.4	7277.4	7277.4	7304.7	7323.4
12.5°	7139.3	7102.3	7139.3	7093.3	7148.3	7121.0	7130.0	7157.7	7166.7	7185.3	7194.3
15°	7001.3	6955.3	6973.6	6945.9	7001.3	6973.6	6983.0	7019.6	7019.6	7047.3	7075.0
17.5°	6826.6	6789.6	6826.6	6789.6	6835.6	6817.2	6835.6	6863.3	6863.3	6890.9	6918.3
20°	6669.9	6633.2	6660.9	6633.2	6688.5	6660.9	6669.9	6706.9	6715.9	6743.6	6771.2
22.5°	6476.8	6449.1	6467.5	6440.1	6495.1	6476.8	6486.2	6522.8	6532.2	6550.5	6596.5
25°	6274.4	6219.1	6246.7	6228.4	6283.8	6256.1	6274.4	6311.1	6329.8	6357.1	6394.1
27.5°	5980.0	5952.3	5970.7	5970.7	6016.7	5989.3	5998.3	6035.4	6062.7	6090.4	6136.4
30°	5676.6	5630.6	5648.9	5657.9	5694.9	5676.6	5694.9	5731.6	5740.9	5777.6	5814.3
32.5°	5290.2	5271.5	5308.5	5290.2	5308.5	5308.5	5317.5	5345.2	5363.5	5382.2	5428.2
35°	4876.0	4839.4	4876.0	4857.7	4903.7	4876.0	4903.7	4931.4	4931.4	4968.1	4995.7
37.5°	4425.2	4379.2	4397.6	4397.6	4415.9	4406.9	4406.9	4452.9	4461.9	4489.6	4517.3
40°	3891.8	3873.1	3910.1	3900.8	3910.1	3910.1	3919.1	3946.8	3965.1	3974.4	3983.8
42.5°	3413.3	3422.3	3431.6	3431.6	3431.6	3431.6	3431.6	3468.3	3459.3	3487.0	3496.0
45°	3017.5	2980.8	2999.2	2990.2	3017.5	2990.2	3017.5	3045.2	3026.8	3054.5	3035.8
47.5°	2612.7	2612.7	2612.7	2603.7	2622.1	2612.7	2631.1	2640.4	2640.4	2640.4	2631.1
50°	2291.0	2263.3	2272.3	2272.3	2281.6	2272.3	2291.0	2300.0	2300.0	2281.6	2245.0
52.5°	1977.9	1968.9	1968.9	1987.2	1987.2	1977.9	1977.9	1977.9	1977.9	1950.6	1931.9
55°	1720.5	1702.1	1711.1	1711.1	1711.1	1711.1	1720.5	1711.1	1711.1	1683.5	1656.1
57.5°	1490.4	1472.1	1472.1	1472.1	1481.1	1472.1	1472.1	1472.1	1462.7	1435.1	1398.4
60°	1269.7	1260.4	1269.7	1269.7	1278.7	1269.7	1269.7	1269.7	1251.4	1223.7	1186.7
62.5°	1085.6	1085.6	1085.6	1094.6	1094.6	1085.6	1085.6	1076.3	1067.3	1030.3	993.6
65°	929.3	919.9	929.3	929.3	938.3	938.3	929.3	919.9	910.9	873.9	837.2
67.5°	772.9	763.5	772.9	772.9	781.9	772.9	772.9	772.9	745.2	726.9	689.9
70°	625.5	616.5	616.5	616.5	625.5	607.2	616.5	616.5	598.2	570.5	533.5
72.5°	478.5	478.5	478.5	478.5	478.5	478.5	469.1	469.1	450.8	423.1	404.8
75°	349.8	349.8	358.8	358.8	349.8	349.8	349.8	340.4	331.1	312.8	294.4
77.5°	257.7	257.7	257.7	257.7	248.4	248.4	248.4	239.1	230.1	220.7	202.4
80°	184.1	184.1	184.1	174.7	184.1	174.7	174.7	174.7	156.4	147.0	138.0
82.5°	128.7	119.7	119.7	119.7	119.7	119.7	119.7	110.4	110.4	101.4	92.0
85°	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	64.3	55.4	55.4
87.5°	36.7	46.0	46.0	46.0	46.0	46.0	46.0	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°	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8
2.5°	7580.8	7580.8	7599.1	7571.8	7617.8	7590.1	7580.8	7626.8	7599.1	7590.1	7608.5
5°	7516.4	7525.8	7534.8	7516.4	7562.5	7534.8	7534.8	7580.8	7562.5	7553.1	7580.8
7.5°	7433.8	7442.7	7461.1	7452.1	7488.8	7470.4	7479.8	7525.8	7507.1	7507.1	7534.8
10°	7332.4	7350.7	7369.4	7369.4	7415.1	7396.7	7396.7	7452.1	7433.8	7442.7	7479.8
12.5°	7212.7	7240.4	7268.0	7277.4	7323.4	7295.7	7304.7	7369.4	7360.1	7369.4	7406.1
15°	7084.0	7121.0	7148.3	7148.3	7203.7	7176.0	7203.7	7268.0	7249.7	7286.4	7332.4
17.5°	6936.9	6973.6	7010.3	7019.6	7075.0	7056.3	7093.3	7157.7	7157.7	7176.0	7231.4
20°	6798.9	6844.9	6863.3	6890.9	6945.9	6936.9	6955.3	7029.0	7029.0	7056.3	7111.7
22.5°	6614.9	6660.9	6697.5	6725.2	6771.2	6771.2	6798.9	6863.3	6863.3	6881.6	6936.9
25°	6412.5	6467.5	6495.1	6522.8	6568.8	6559.5	6587.2	6642.5	6651.5	6669.9	6725.2
27.5°	6154.7	6200.7	6237.8	6256.1	6320.4	6283.8	6311.1	6375.8	6366.5	6384.8	6430.8
30°	5833.0	5879.0	5915.7	5915.7	5970.7	5970.7	5998.3	6026.0	6026.0	6044.4	6081.4
32.5°	5455.5	5510.9	5510.9	5538.6	5575.2	5538.6	5575.2	5611.9	5593.6	5621.2	5648.9
35°	5023.1	5050.7	5060.1	5060.1	5087.8	5078.4	5069.1	5096.8	5078.4	5124.4	5152.1
37.5°	4498.9	4535.6	4517.3	4535.6	4526.3	4498.9	4498.9	4544.9	4507.9	4517.3	4544.9
40°	3992.8	3992.8	3983.8	3937.8	3946.8	3919.1	3910.1	3919.1	3882.4	3873.1	3910.1
42.5°	3468.3	3459.3	3431.6	3367.3	3376.3	3330.3	3293.6	3293.6	3275.3	3265.9	3275.3
45°	2999.2	2971.5	2925.5	2852.1	2833.5	2796.8	2723.1	2704.8	2677.1	2677.1	2686.4
47.5°	2566.7	2530.0	2456.4	2373.7	2327.7	2281.6	2207.9	2180.3	2134.3	2115.9	2134.3
50°	2207.9	2143.6	2051.6	1931.9	1885.9	1830.8	1757.2	1711.1	1665.1	1646.8	1637.5
52.5°	1876.9	1784.8	1692.8	1545.8	1508.8	1453.7	1352.4	1306.4	1260.4	1223.7	1223.7
55°	1591.4	1508.8	1380.1	1242.0	1186.7	1131.7	1030.3	965.9	919.9	901.6	883.2
57.5°	1334.0	1242.0	1122.3	975.3	919.9	864.9	763.5	699.2	653.2	625.5	607.2
60°	1122.3	1021.3	901.6	772.9	708.5	653.2	552.2	487.5	441.5	414.1	395.4
62.5°	919.9	837.2	717.5	598.2	542.8	487.5	404.8	340.4	294.4	276.1	248.4
65°	772.9	689.9	579.5	478.5	432.5	377.1	303.8	248.4	211.7	184.1	165.7
67.5°	625.5	561.2	469.1	377.1	331.1	294.4	230.1	184.1	147.0	128.7	119.7
70°	496.8	432.5	358.8	285.1	257.7	220.7	174.7	128.7	110.4	92.0	82.7
72.5°	368.1	322.1	266.7	211.7	184.1	165.7	119.7	101.4	73.7	64.3	55.4
75°	266.7	230.1	193.0	147.0	128.7	119.7	92.0	64.3	55.4	46.0	36.7
77.5°	184.1	165.7	128.7	101.4	92.0	82.7	64.3	46.0	36.7	27.7	27.7
80°	119.7	101.4	82.7	64.3	64.3	55.4	36.7	27.7	27.7	18.3	18.3
82.5°	73.7	64.3	55.4	46.0	36.7	36.7	27.7	18.3	18.3	9.3	9.3
85°	46.0	36.7	27.7	27.7	18.3	18.3	18.3	9.3	9.3	9.3	9.3
87.5°	18.3	18.3	18.3	9.3	9.3	9.3	9.3	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°	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8
2.5°	7608.5	7608.5	7626.8	7599.1	7617.8	7617.8	7636.1	7599.1	7617.8	7626.8	7645.1
5°	7571.8	7580.8	7599.1	7590.1	7599.1	7599.1	7617.8	7571.8	7608.5	7608.5	7636.1
7.5°	7534.8	7534.8	7553.1	7544.1	7562.5	7571.8	7590.1	7553.1	7590.1	7590.1	7617.8
10°	7488.8	7488.8	7516.4	7507.1	7534.8	7544.1	7571.8	7534.8	7571.8	7580.8	7608.5
12.5°	7424.4	7433.8	7461.1	7461.1	7488.8	7507.1	7534.8	7516.4	7562.5	7571.8	7608.5
15°	7350.7	7369.4	7406.1	7396.7	7424.4	7452.1	7488.8	7461.1	7525.8	7544.1	7580.8
17.5°	7258.7	7277.4	7304.7	7304.7	7332.4	7350.7	7396.7	7378.4	7433.8	7442.7	7488.8
20°	7121.0	7148.3	7185.3	7176.0	7203.7	7222.0	7258.7	7240.4	7295.7	7314.0	7360.1
22.5°	6955.3	6973.6	7001.3	7001.3	7029.0	7047.3	7084.0	7056.3	7111.7	7121.0	7157.7
25°	6734.6	6752.9	6771.2	6780.6	6807.9	6817.2	6835.6	6817.2	6863.3	6872.6	6918.3
27.5°	6449.1	6458.5	6486.2	6486.2	6504.5	6513.5	6541.2	6504.5	6568.8	6568.8	6596.5
30°	6108.7	6099.7	6136.4	6118.0	6136.4	6136.4	6164.1	6145.7	6191.7	6173.4	6200.7
32.5°	5657.9	5676.6	5676.6	5657.9	5694.9	5685.6	5685.6	5667.3	5694.9	5703.9	5722.3
35°	5133.8	5161.1	5161.1	5170.4	5179.8	5152.1	5161.1	5106.1	5152.1	5161.1	5170.4
37.5°	4563.3	4535.6	4553.9	4526.3	4572.3	4517.3	4517.3	4480.6	4517.3	4517.3	4526.3
40°	3910.1	3900.8	3919.1	3900.8	3891.8	3882.4	3864.1	3836.4	3873.1	3854.7	3882.4
42.5°	3293.6	3284.2	3284.2	3265.9	3256.9	3256.9	3238.6	3219.9	3210.9	3210.9	3256.9
45°	2658.7	2677.1	2658.7	2649.7	2668.1	2649.7	2658.7	2622.1	2640.4	2622.1	2640.4
47.5°	2125.3	2134.3	2115.9	2097.6	2125.3	2097.6	2097.6	2069.9	2106.9	2106.9	2088.2
50°	1646.8	1637.5	1619.1	1637.5	1628.5	1628.5	1628.5	1600.8	1619.1	1591.4	1610.1
52.5°	1214.3	1205.3	1205.3	1196.0	1205.3	1196.0	1196.0	1186.7	1186.7	1177.7	1186.7
55°	883.2	873.9	855.6	855.6	855.6	864.9	855.6	846.6	846.6	837.2	846.6
57.5°	598.2	579.5	579.5	579.5	579.5	570.5	570.5	561.2	570.5	561.2	570.5
60°	386.4	386.4	368.1	368.1	368.1	368.1	368.1	358.8	368.1	368.1	368.1
62.5°	239.1	239.1	230.1	220.7	230.1	220.7	220.7	220.7	230.1	220.7	230.1
65°	156.4	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0
67.5°	110.4	101.4	101.4	101.4	101.4	101.4	101.4	92.0	101.4	101.4	101.4
70°	73.7	73.7	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
72.5°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
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	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
80°	18.3	18.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
82.5°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
85°	9.3	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	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
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: P684010

CATALOG NUMBER: LX6C130D010 EX6C1309035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8	7617.8
2.5°	7617.8	7626.8	7608.5	7617.8	7599.1	7617.8	7626.8	7645.1
5°	7599.1	7608.5	7590.1	7608.5	7590.1	7608.5	7617.8	7636.1
7.5°	7580.8	7599.1	7580.8	7599.1	7580.8	7599.1	7608.5	7626.8
10°	7580.8	7608.5	7590.1	7617.8	7590.1	7608.5	7626.8	7636.1
12.5°	7580.8	7608.5	7599.1	7617.8	7608.5	7626.8	7645.1	7663.5
15°	7562.5	7590.1	7571.8	7599.1	7590.1	7599.1	7636.1	7636.1
17.5°	7461.1	7488.8	7488.8	7507.1	7507.1	7534.8	7553.1	7571.8
20°	7332.4	7360.1	7350.7	7378.4	7378.4	7406.1	7424.4	7442.7
22.5°	7139.3	7176.0	7166.7	7194.3	7185.3	7203.7	7240.4	7231.4
25°	6890.9	6936.9	6927.6	6945.9	6936.9	6936.9	6955.3	6964.3
27.5°	6587.2	6614.9	6605.5	6624.2	6605.5	6624.2	6642.5	6651.5
30°	6191.7	6210.1	6200.7	6210.1	6200.7	6219.1	6228.4	6246.7
32.5°	5713.3	5740.9	5713.3	5731.6	5722.3	5722.3	5759.3	5740.9
35°	5142.8	5152.1	5161.1	5161.1	5142.8	5152.1	5170.4	5170.4
37.5°	4507.9	4553.9	4498.9	4526.3	4517.3	4517.3	4517.3	4544.9
40°	3845.7	3854.7	3836.4	3836.4	3836.4	3827.1	3864.1	3854.7
42.5°	3219.9	3229.2	3219.9	3192.6	3201.6	3201.6	3229.2	3192.6
45°	2612.7	2631.1	2622.1	2622.1	2603.7	2603.7	2612.7	2594.4
47.5°	2069.9	2088.2	2060.9	2069.9	2051.6	2069.9	2060.9	2079.3
50°	1573.1	1591.4	1582.4	1591.4	1591.4	1573.1	1600.8	1564.1
52.5°	1177.7	1186.7	1177.7	1168.3	1159.3	1159.3	1177.7	1168.3
55°	837.2	827.9	827.9	827.9	837.2	837.2	827.9	818.9
57.5°	561.2	561.2	552.2	552.2	561.2	542.8	552.2	542.8
60°	358.8	358.8	358.8	358.8	349.8	358.8	358.8	358.8
62.5°	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7
65°	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0
67.5°	92.0	101.4	101.4	101.4	92.0	92.0	92.0	92.0
70°	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
72.5°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
75°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
77.5°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
80°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
82.5°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	9.3	9.3	9.3	9.3	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)