

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: P684557

Luminaire Tested: **LX6C70D010 EX6C709727 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684557
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: LX6C70D010 EX6C709727 6LCSWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

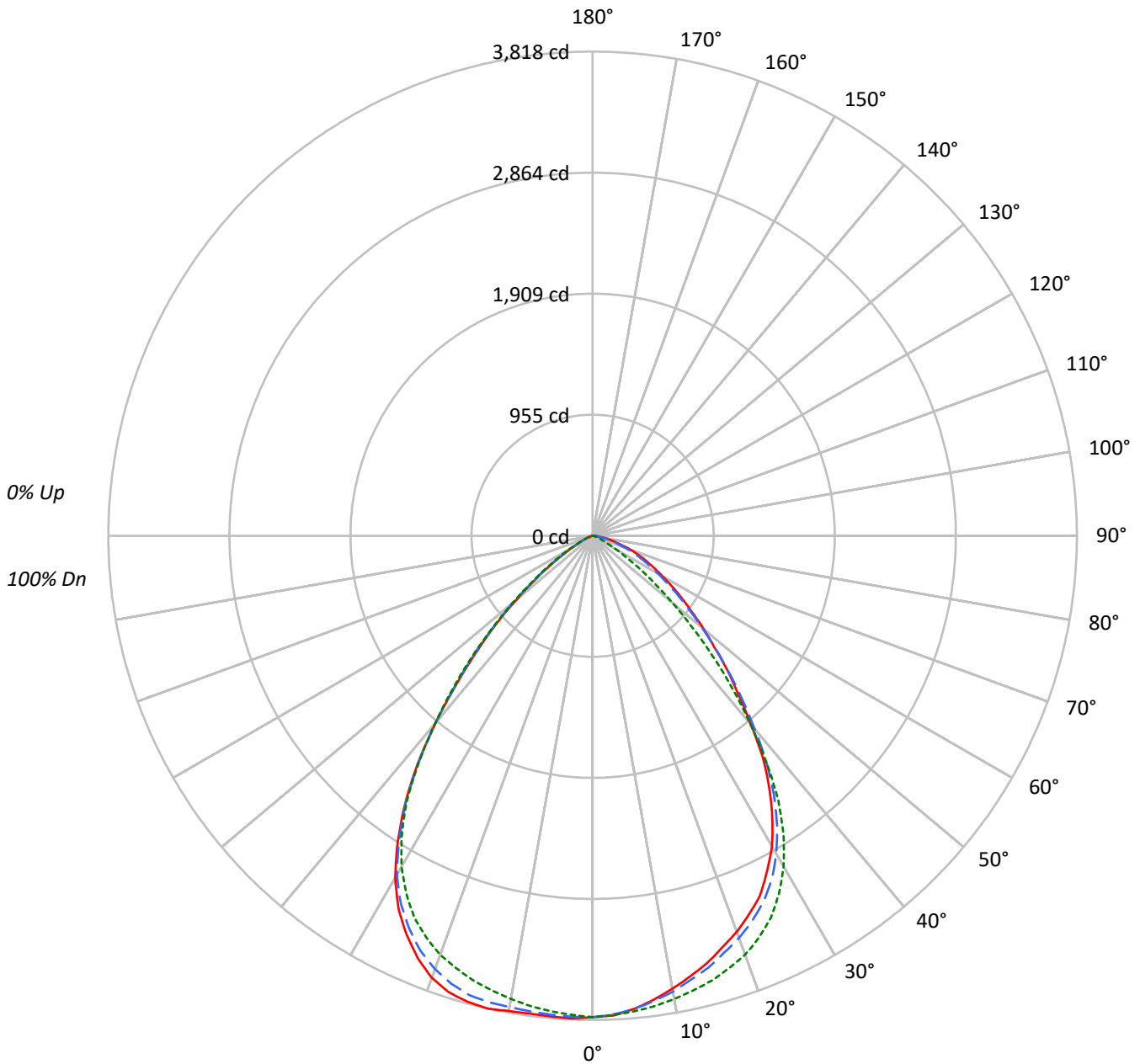
Lumens per Lamp: N/A
Luminaire Lumens: 6368.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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	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°	208086	208086	208086
5°	206102	207109	209382
10°	201856	206442	211803
15°	197992	206051	215943
20°	193882	205118	216354
25°	189108	201024	209903
30°	179047	190650	197030
35°	162596	170881	172414
40°	138774	138109	137450
45°	116570	103414	100220
50°	97353	69985	66471
55°	81937	42933	38995
60°	69369	22619	19604
65°	60058	11895	9508
70°	49960	7357	5145
75°	36918	4850	2923
80°	28949	2873	1484
85°	23084	2956	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.7	5.6
10°-20°	1024.3	16.1
20°-30°	1512.5	23.8
30°-40°	1558.8	24.5
40°-50°	1076.6	16.9
50°-60°	530.7	8.3
60°-70°	215.0	3.4
70°-80°	76.6	1.2
80°-90°	15.9	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°	2894.5	45.5
0°-40°	4453.2	69.9
0°-60°	6060.5	95.2
0°-90°	6368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6368.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3796	3796	3796	3796	3796	
5°	3745	3745	3764	3791	3805	354
15°	3489	3525	3631	3750	3805	982
25°	3126	3186	3323	3420	3470	1429
35°	2430	2489	2553	2567	2576	1505
45°	1504	1513	1334	1316	1293	1162
55°	857	825	449	422	408	775
65°	463	417	92	73	73	460
75°	174	147	23	14	14	196
85°	37	28	5	0	0	45
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°	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8
2.5°	3786.5	3772.9	3782.0	3763.6	3786.5	3763.6	3768.2	3772.9	3768.2	3772.9	3777.3
5°	3745.3	3731.5	3745.3	3722.4	3745.3	3731.5	3731.5	3736.1	3736.1	3740.6	3745.3
7.5°	3690.3	3676.5	3690.3	3667.4	3694.8	3681.2	3681.2	3690.3	3685.6	3690.3	3699.4
10°	3626.2	3607.7	3621.5	3607.7	3635.3	3616.9	3626.2	3626.2	3626.2	3639.8	3649.1
12.5°	3557.4	3538.9	3557.4	3534.5	3561.9	3548.2	3552.7	3566.5	3571.0	3580.3	3584.8
15°	3488.6	3465.7	3474.8	3461.0	3488.6	3474.8	3479.5	3497.7	3497.7	3511.5	3525.3
17.5°	3401.5	3383.1	3401.5	3383.1	3406.0	3396.9	3406.0	3419.8	3419.8	3433.6	3447.2
20°	3323.4	3305.2	3319.0	3305.2	3332.8	3319.0	3323.4	3341.9	3346.4	3360.2	3374.0
22.5°	3227.3	3213.5	3222.6	3209.0	3236.4	3227.3	3231.9	3250.2	3254.8	3264.0	3286.9
25°	3126.4	3098.8	3112.6	3103.5	3131.1	3117.3	3126.4	3144.7	3154.0	3167.6	3186.1
27.5°	2979.7	2965.9	2975.1	2975.1	2998.0	2984.4	2988.8	3007.3	3020.9	3034.7	3057.6
30°	2828.5	2805.6	2814.7	2819.2	2837.7	2828.5	2837.7	2855.9	2860.6	2878.9	2897.1
32.5°	2636.0	2626.7	2645.1	2636.0	2645.1	2645.1	2649.6	2663.4	2672.5	2681.8	2704.8
35°	2429.6	2411.3	2429.6	2420.5	2443.4	2429.6	2443.4	2457.2	2457.2	2475.5	2489.3
37.5°	2205.0	2182.1	2191.2	2191.2	2200.3	2195.9	2195.9	2218.8	2223.3	2237.1	2250.9
40°	1939.2	1929.9	1948.3	1943.7	1948.3	1948.3	1952.8	1966.6	1975.7	1980.4	1985.0
42.5°	1700.8	1705.3	1709.9	1709.9	1709.9	1709.9	1709.9	1728.2	1723.7	1737.5	1742.0
45°	1503.6	1485.3	1494.4	1489.9	1503.6	1489.9	1503.6	1517.4	1508.2	1522.0	1512.7
47.5°	1301.9	1301.9	1301.9	1297.4	1306.5	1301.9	1311.0	1315.7	1315.7	1315.7	1311.0
50°	1141.5	1127.8	1132.2	1132.2	1136.9	1132.2	1141.5	1146.0	1146.0	1136.9	1118.6
52.5°	985.5	981.1	981.1	990.2	990.2	985.5	985.5	985.5	985.5	971.9	962.6
55°	857.3	848.1	852.6	852.6	852.6	852.6	857.3	852.6	852.6	838.8	825.2
57.5°	742.6	733.5	733.5	733.5	738.0	733.5	733.5	733.5	728.9	715.1	696.8
60°	632.7	628.0	632.7	632.7	637.1	632.7	632.7	632.7	623.5	609.7	591.3
62.5°	541.0	541.0	541.0	545.4	545.4	541.0	541.0	536.3	531.8	513.4	495.1
65°	463.0	458.4	463.0	463.0	467.5	467.5	463.0	458.4	453.9	435.4	417.2
67.5°	385.1	380.5	385.1	385.1	389.6	385.1	385.1	385.1	371.3	362.2	343.7
70°	311.7	307.2	307.2	307.2	311.7	302.5	307.2	307.2	298.1	284.3	265.8
72.5°	238.4	238.4	238.4	238.4	238.4	238.4	233.8	233.8	224.6	210.8	201.7
75°	174.3	174.3	178.8	178.8	174.3	174.3	174.3	169.6	165.0	155.8	146.7
77.5°	128.4	128.4	128.4	128.4	123.8	123.8	123.8	119.1	114.6	110.0	100.8
80°	91.7	91.7	91.7	87.1	91.7	87.1	87.1	87.1	77.9	73.3	68.8
82.5°	64.1	59.6	59.6	59.6	59.6	59.6	59.6	55.0	55.0	50.5	45.9
85°	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	32.1	27.6	27.6
87.5°	18.3	22.9	22.9	22.9	22.9	22.9	22.9	18.3	18.3	18.3	13.8
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°	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8
2.5°	3777.3	3777.3	3786.5	3772.9	3795.8	3782.0	3777.3	3800.3	3786.5	3782.0	3791.1
5°	3745.3	3749.9	3754.4	3745.3	3768.2	3754.4	3754.4	3777.3	3768.2	3763.6	3777.3
7.5°	3704.1	3708.6	3717.7	3713.2	3731.5	3722.4	3727.0	3749.9	3740.6	3740.6	3754.4
10°	3653.6	3662.7	3672.0	3672.0	3694.8	3685.6	3685.6	3713.2	3704.1	3708.6	3727.0
12.5°	3593.9	3607.7	3621.5	3626.2	3649.1	3635.3	3639.8	3672.0	3667.4	3672.0	3690.3
15°	3529.8	3548.2	3561.9	3561.9	3589.4	3575.7	3589.4	3621.5	3612.4	3630.6	3653.6
17.5°	3456.5	3474.8	3493.1	3497.7	3525.3	3516.0	3534.5	3566.5	3566.5	3575.7	3603.2
20°	3387.7	3410.7	3419.8	3433.6	3461.0	3456.5	3465.7	3502.4	3502.4	3516.0	3543.6
22.5°	3296.0	3319.0	3337.2	3351.0	3374.0	3374.0	3387.7	3419.8	3419.8	3428.9	3456.5
25°	3195.2	3222.6	3236.4	3250.2	3273.1	3268.5	3282.2	3309.8	3314.3	3323.4	3351.0
27.5°	3066.8	3089.7	3108.1	3117.3	3149.3	3131.1	3144.7	3176.9	3172.3	3181.4	3204.3
30°	2906.4	2929.4	2947.6	2947.6	2975.1	2975.1	2988.8	3002.6	3002.6	3011.8	3030.2
32.5°	2718.4	2746.0	2746.0	2759.7	2778.0	2759.7	2778.0	2796.3	2787.2	2800.9	2814.7
35°	2502.9	2516.7	2521.3	2521.3	2535.1	2530.5	2525.8	2539.6	2530.5	2553.4	2567.2
37.5°	2241.7	2260.0	2250.9	2260.0	2255.3	2241.7	2241.7	2264.6	2246.2	2250.9	2264.6
40°	1989.5	1989.5	1985.0	1962.1	1966.6	1952.8	1948.3	1952.8	1934.5	1929.9	1948.3
42.5°	1728.2	1723.7	1709.9	1677.8	1682.3	1659.4	1641.1	1641.1	1632.0	1627.3	1632.0
45°	1494.4	1480.6	1457.7	1421.2	1411.8	1393.6	1356.9	1347.7	1333.9	1333.9	1338.6
47.5°	1278.9	1260.7	1223.9	1182.7	1159.8	1136.9	1100.2	1086.4	1063.5	1054.3	1063.5
50°	1100.2	1068.1	1022.3	962.6	939.7	912.3	875.6	852.6	829.7	820.6	815.9
52.5°	935.2	889.3	843.5	770.2	751.8	724.4	673.9	650.9	628.0	609.7	609.7
55°	793.0	751.8	687.7	618.9	591.3	563.9	513.4	481.3	458.4	449.2	440.1
57.5°	664.7	618.9	559.2	486.0	458.4	431.0	380.5	348.4	325.5	311.7	302.5
60°	559.2	508.9	449.2	385.1	353.0	325.5	275.1	242.9	220.0	206.3	197.0
62.5°	458.4	417.2	357.5	298.1	270.5	242.9	201.7	169.6	146.7	137.6	123.8
65°	385.1	343.7	288.7	238.4	215.5	187.9	151.4	123.8	105.5	91.7	82.6
67.5°	311.7	279.6	233.8	187.9	165.0	146.7	114.6	91.7	73.3	64.1	59.6
70°	247.5	215.5	178.8	142.0	128.4	110.0	87.1	64.1	55.0	45.9	41.2
72.5°	183.4	160.5	132.9	105.5	91.7	82.6	59.6	50.5	36.7	32.1	27.6
75°	132.9	114.6	96.2	73.3	64.1	59.6	45.9	32.1	27.6	22.9	18.3
77.5°	91.7	82.6	64.1	50.5	45.9	41.2	32.1	22.9	18.3	13.8	13.8
80°	59.6	50.5	41.2	32.1	32.1	27.6	18.3	13.8	13.8	9.1	9.1
82.5°	36.7	32.1	27.6	22.9	18.3	18.3	13.8	9.1	9.1	4.7	4.7
85°	22.9	18.3	13.8	13.8	9.1	9.1	9.1	4.7	4.7	4.7	4.7
87.5°	9.1	9.1	9.1	4.7	4.7	4.7	4.7	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°	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8
2.5°	3791.1	3791.1	3800.3	3786.5	3795.8	3795.8	3804.9	3786.5	3795.8	3800.3	3809.4
5°	3772.9	3777.3	3786.5	3782.0	3786.5	3786.5	3795.8	3772.9	3791.1	3791.1	3804.9
7.5°	3754.4	3754.4	3763.6	3759.1	3768.2	3772.9	3782.0	3763.6	3782.0	3782.0	3795.8
10°	3731.5	3731.5	3745.3	3740.6	3754.4	3759.1	3772.9	3754.4	3772.9	3777.3	3791.1
12.5°	3699.4	3704.1	3717.7	3717.7	3731.5	3740.6	3754.4	3745.3	3768.2	3772.9	3791.1
15°	3662.7	3672.0	3690.3	3685.6	3699.4	3713.2	3731.5	3717.7	3749.9	3759.1	3777.3
17.5°	3616.9	3626.2	3639.8	3639.8	3653.6	3662.7	3685.6	3676.5	3704.1	3708.6	3731.5
20°	3548.2	3561.9	3580.3	3575.7	3589.4	3598.6	3616.9	3607.7	3635.3	3644.4	3667.4
22.5°	3465.7	3474.8	3488.6	3488.6	3502.4	3511.5	3529.8	3516.0	3543.6	3548.2	3566.5
25°	3355.7	3364.8	3374.0	3378.6	3392.2	3396.9	3406.0	3396.9	3419.8	3424.5	3447.2
27.5°	3213.5	3218.1	3231.9	3231.9	3241.0	3245.5	3259.3	3241.0	3273.1	3273.1	3286.9
30°	3043.8	3039.4	3057.6	3048.5	3057.6	3057.6	3071.4	3062.3	3085.2	3076.1	3089.7
32.5°	2819.2	2828.5	2828.5	2819.2	2837.7	2833.0	2833.0	2823.9	2837.7	2842.1	2851.3
35°	2558.1	2571.7	2571.7	2576.3	2581.0	2567.2	2571.7	2544.3	2567.2	2571.7	2576.3
37.5°	2273.8	2260.0	2269.1	2255.3	2278.3	2250.9	2250.9	2232.6	2250.9	2250.9	2255.3
40°	1948.3	1943.7	1952.8	1943.7	1939.2	1934.5	1925.4	1911.6	1929.9	1920.7	1934.5
42.5°	1641.1	1636.5	1636.5	1627.3	1622.9	1622.9	1613.7	1604.4	1599.9	1599.9	1622.9
45°	1324.8	1333.9	1324.8	1320.3	1329.4	1320.3	1324.8	1306.5	1315.7	1306.5	1315.7
47.5°	1059.0	1063.5	1054.3	1045.2	1059.0	1045.2	1045.2	1031.4	1049.8	1049.8	1040.5
50°	820.6	815.9	806.8	815.9	811.4	811.4	811.4	797.6	806.8	793.0	802.3
52.5°	605.1	600.6	600.6	595.9	600.6	595.9	595.9	591.3	591.3	586.8	591.3
55°	440.1	435.4	426.3	426.3	426.3	431.0	426.3	421.8	421.8	417.2	421.8
57.5°	298.1	288.7	288.7	288.7	288.7	284.3	284.3	279.6	284.3	279.6	284.3
60°	192.6	192.6	183.4	183.4	183.4	183.4	183.4	178.8	183.4	183.4	183.4
62.5°	119.1	119.1	114.6	110.0	114.6	110.0	110.0	110.0	114.6	110.0	114.6
65°	77.9	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
67.5°	55.0	50.5	50.5	50.5	50.5	50.5	50.5	45.9	50.5	50.5	50.5
70°	36.7	36.7	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
72.5°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
75°	18.3	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
77.5°	13.8	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
80°	9.1	9.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
85°	4.7	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	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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: P684557

CATALOG NUMBER: LX6C70D010 EX6C709727 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8	3795.8
2.5°	3795.8	3800.3	3791.1	3795.8	3786.5	3795.8	3800.3	3809.4
5°	3786.5	3791.1	3782.0	3791.1	3782.0	3791.1	3795.8	3804.9
7.5°	3777.3	3786.5	3777.3	3786.5	3777.3	3786.5	3791.1	3800.3
10°	3777.3	3791.1	3782.0	3795.8	3782.0	3791.1	3800.3	3804.9
12.5°	3777.3	3791.1	3786.5	3795.8	3791.1	3800.3	3809.4	3818.5
15°	3768.2	3782.0	3772.9	3786.5	3782.0	3786.5	3804.9	3804.9
17.5°	3717.7	3731.5	3731.5	3740.6	3740.6	3754.4	3763.6	3772.9
20°	3653.6	3667.4	3662.7	3676.5	3676.5	3690.3	3699.4	3708.6
22.5°	3557.4	3575.7	3571.0	3584.8	3580.3	3589.4	3607.7	3603.2
25°	3433.6	3456.5	3451.9	3461.0	3456.5	3456.5	3465.7	3470.2
27.5°	3282.2	3296.0	3291.4	3300.7	3291.4	3300.7	3309.8	3314.3
30°	3085.2	3094.3	3089.7	3094.3	3089.7	3098.8	3103.5	3112.6
32.5°	2846.8	2860.6	2846.8	2855.9	2851.3	2851.3	2869.7	2860.6
35°	2562.5	2567.2	2571.7	2571.7	2562.5	2567.2	2576.3	2576.3
37.5°	2246.2	2269.1	2241.7	2255.3	2250.9	2250.9	2250.9	2264.6
40°	1916.3	1920.7	1911.6	1911.6	1911.6	1906.9	1925.4	1920.7
42.5°	1604.4	1609.1	1604.4	1590.8	1595.3	1595.3	1609.1	1590.8
45°	1301.9	1311.0	1306.5	1306.5	1297.4	1297.4	1301.9	1292.7
47.5°	1031.4	1040.5	1026.9	1031.4	1022.3	1031.4	1026.9	1036.0
50°	783.8	793.0	788.5	793.0	793.0	783.8	797.6	779.4
52.5°	586.8	591.3	586.8	582.2	577.7	577.7	586.8	582.2
55°	417.2	412.5	412.5	412.5	417.2	417.2	412.5	408.0
57.5°	279.6	279.6	275.1	275.1	279.6	270.5	275.1	270.5
60°	178.8	178.8	178.8	178.8	174.3	178.8	178.8	178.8
62.5°	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
65°	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
67.5°	45.9	50.5	50.5	50.5	45.9	45.9	45.9	45.9
70°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
72.5°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
75°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
77.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	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)