

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: P684555

Luminaire Tested: **LX6C70D010 EX6C709050 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684555
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 EX6C709050 6LCSWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

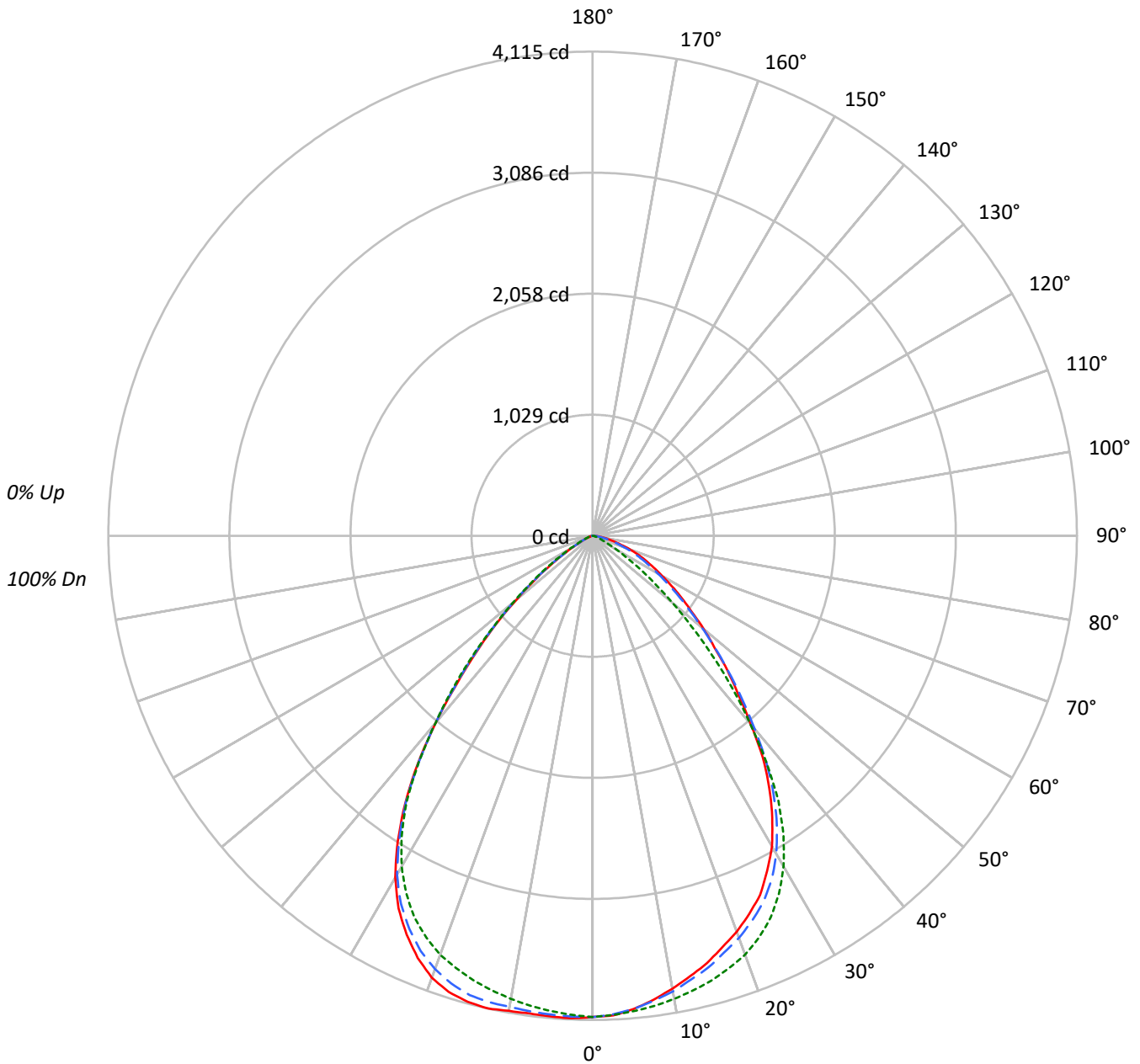
Lumens per Lamp: N/A
Luminaire Lumens: 6862.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	224225	224225	224225
5°	222088	223172	225627
10°	217514	222457	228236
15°	213350	222039	232697
20°	208927	221033	233138
25°	203776	216623	226180
30°	192935	205437	212317
35°	175211	184139	185792
40°	149537	148822	148113
45°	125610	111438	107996
50°	104909	75409	71622
55°	88293	46268	42025
60°	74742	24384	21117
65°	64728	12816	10235
70°	53839	7918	5546
75°	39778	5232	3156
80°	31191	3094	1578
85°	24908	3145	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.5	5.6
10°-20°	1103.7	16.1
20°-30°	1629.8	23.8
30°-40°	1679.7	24.5
40°-50°	1160.1	16.9
50°-60°	571.8	8.3
60°-70°	231.7	3.4
70°-80°	82.6	1.2
80°-90°	17.1	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°	3119.0	45.5
0°-40°	4798.7	69.9
0°-60°	6530.6	95.2
0°-90°	6862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6862.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4090	4090	4090	4090	4090	
5°	4036	4036	4056	4085	4100	381
15°	3759	3799	3912	4041	4100	1058
25°	3369	3433	3581	3685	3739	1540
35°	2618	2682	2752	2766	2776	1622
45°	1620	1630	1437	1418	1393	1252
55°	924	889	484	455	440	835
65°	499	450	99	79	79	496
75°	188	158	25	15	15	211
85°	40	30	5	0	0	48
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°	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2
2.5°	4080.2	4065.5	4075.4	4055.5	4080.2	4055.5	4060.5	4065.5	4060.5	4065.5	4070.4
5°	4035.8	4021.0	4035.8	4011.1	4035.8	4021.0	4021.0	4026.0	4026.0	4030.8	4035.8
7.5°	3976.6	3961.7	3976.6	3951.9	3981.4	3966.7	3966.7	3976.6	3971.5	3976.6	3986.4
10°	3907.5	3887.6	3902.4	3887.6	3917.3	3897.4	3907.5	3907.5	3907.5	3922.1	3932.2
12.5°	3833.3	3813.5	3833.3	3808.6	3838.2	3823.5	3828.3	3843.2	3848.0	3858.0	3862.9
15°	3759.2	3734.5	3744.4	3729.5	3759.2	3744.4	3749.4	3769.1	3769.1	3783.9	3798.8
17.5°	3665.4	3645.5	3665.4	3645.5	3670.2	3660.4	3670.2	3685.1	3685.1	3700.0	3714.6
20°	3581.3	3561.6	3576.4	3561.6	3591.3	3576.4	3581.3	3601.1	3606.0	3620.8	3635.7
22.5°	3477.6	3462.8	3472.6	3457.9	3487.5	3477.6	3482.6	3502.3	3507.3	3517.2	3541.9
25°	3368.9	3339.2	3354.1	3344.2	3374.0	3359.1	3368.9	3388.6	3398.7	3413.3	3433.2
27.5°	3210.9	3196.0	3205.8	3205.8	3230.6	3215.9	3220.7	3240.6	3255.3	3270.1	3294.8
30°	3047.9	3023.2	3033.1	3037.9	3057.8	3047.9	3057.8	3077.5	3082.5	3102.2	3121.9
32.5°	2840.5	2830.4	2850.3	2840.5	2850.3	2850.3	2855.1	2870.0	2879.8	2889.9	2914.6
35°	2618.1	2598.4	2618.1	2608.3	2633.0	2618.1	2633.0	2647.8	2647.8	2667.5	2682.4
37.5°	2376.1	2351.3	2361.2	2361.2	2371.0	2366.2	2366.2	2390.9	2395.7	2410.6	2425.5
40°	2089.6	2079.6	2099.5	2094.4	2099.5	2099.5	2104.3	2119.1	2129.0	2134.0	2139.0
42.5°	1832.7	1837.5	1842.6	1842.6	1842.6	1842.6	1842.6	1862.2	1857.4	1872.3	1877.1
45°	1620.2	1600.5	1610.4	1605.5	1620.2	1605.5	1620.2	1635.1	1625.2	1640.1	1630.0
47.5°	1402.9	1402.9	1402.9	1398.0	1407.9	1402.9	1412.7	1417.7	1417.7	1417.7	1412.7
50°	1230.1	1215.2	1220.1	1220.1	1225.1	1220.1	1230.1	1234.9	1234.9	1225.1	1205.4
52.5°	1062.0	1057.2	1057.2	1067.0	1067.0	1062.0	1062.0	1062.0	1062.0	1047.3	1037.3
55°	923.8	913.9	918.8	918.8	918.8	918.8	923.8	918.8	918.8	903.9	889.2
57.5°	800.3	790.4	790.4	790.4	795.2	790.4	790.4	790.4	785.4	770.5	750.8
60°	681.7	676.7	681.7	681.7	686.6	681.7	681.7	681.7	671.9	657.0	637.2
62.5°	582.9	582.9	582.9	587.7	587.7	582.9	582.9	577.9	573.1	553.2	533.5
65°	499.0	493.9	499.0	499.0	503.8	503.8	499.0	493.9	489.1	469.2	449.5
67.5°	415.0	410.0	415.0	415.0	419.8	415.0	415.0	415.0	400.1	390.3	370.4
70°	335.9	331.0	331.0	331.0	335.9	326.0	331.0	331.0	321.2	306.3	286.4
72.5°	256.9	256.9	256.9	256.9	256.9	256.9	251.9	251.9	242.0	227.2	217.3
75°	187.8	187.8	192.6	192.6	187.8	187.8	187.8	182.8	177.8	167.9	158.1
77.5°	138.4	138.4	138.4	138.4	133.4	133.4	133.4	128.4	123.5	118.5	108.7
80°	98.8	98.8	98.8	93.8	98.8	93.8	93.8	93.8	84.0	78.9	74.1
82.5°	69.1	64.3	64.3	64.3	64.3	64.3	64.3	59.3	59.3	54.4	49.4
85°	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	34.6	29.7	29.7
87.5°	19.7	24.7	24.7	24.7	24.7	24.7	24.7	19.7	19.7	19.7	14.9
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°	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2
2.5°	4070.4	4070.4	4080.2	4065.5	4090.2	4075.4	4070.4	4095.1	4080.2	4075.4	4085.2
5°	4035.8	4040.8	4045.7	4035.8	4060.5	4045.7	4045.7	4070.4	4060.5	4055.5	4070.4
7.5°	3991.4	3996.3	4006.1	4001.3	4021.0	4011.1	4016.1	4040.8	4030.8	4030.8	4045.7
10°	3937.0	3946.8	3956.9	3956.9	3981.4	3971.5	3971.5	4001.3	3991.4	3996.3	4016.1
12.5°	3872.7	3887.6	3902.4	3907.5	3932.2	3917.3	3922.1	3956.9	3951.9	3956.9	3976.6
15°	3803.6	3823.5	3838.2	3838.2	3867.9	3853.0	3867.9	3902.4	3892.6	3912.3	3937.0
17.5°	3724.7	3744.4	3764.1	3769.1	3798.8	3788.8	3808.6	3843.2	3843.2	3853.0	3882.8
20°	3650.6	3675.3	3685.1	3700.0	3729.5	3724.7	3734.5	3774.1	3774.1	3788.8	3818.5
22.5°	3551.7	3576.4	3596.1	3611.0	3635.7	3635.7	3650.6	3685.1	3685.1	3695.0	3724.7
25°	3443.1	3472.6	3487.5	3502.3	3527.0	3522.0	3536.9	3566.6	3571.4	3581.3	3611.0
27.5°	3304.7	3329.4	3349.3	3359.1	3393.6	3374.0	3388.6	3423.4	3418.4	3428.2	3452.9
30°	3131.9	3156.6	3176.3	3176.3	3205.8	3205.8	3220.7	3235.6	3235.6	3245.4	3265.3
32.5°	2929.2	2959.0	2959.0	2973.8	2993.5	2973.8	2993.5	3013.2	3003.4	3018.2	3033.1
35°	2697.0	2711.9	2716.9	2716.9	2731.8	2726.8	2721.8	2736.6	2726.8	2751.5	2766.3
37.5°	2415.6	2435.3	2425.5	2435.3	2430.3	2415.6	2415.6	2440.3	2420.5	2425.5	2440.3
40°	2143.9	2143.9	2139.0	2114.3	2119.1	2104.3	2099.5	2104.3	2084.6	2079.6	2099.5
42.5°	1862.2	1857.4	1842.6	1808.0	1812.8	1788.1	1768.4	1768.4	1758.6	1753.6	1758.6
45°	1610.4	1595.5	1570.8	1531.4	1521.4	1501.7	1462.1	1452.3	1437.4	1437.4	1442.4
47.5°	1378.2	1358.5	1318.9	1274.5	1249.8	1225.1	1185.5	1170.7	1146.0	1136.1	1146.0
50°	1185.5	1151.0	1101.6	1037.3	1012.6	983.0	943.5	918.8	894.1	884.2	879.2
52.5°	1007.7	958.3	908.9	830.0	810.1	780.6	726.1	701.4	676.7	657.0	657.0
55°	854.5	810.1	741.0	666.9	637.2	607.6	553.2	518.6	493.9	484.1	474.2
57.5°	716.3	666.9	602.6	523.7	493.9	464.4	410.0	375.4	350.7	335.9	326.0
60°	602.6	548.4	484.1	415.0	380.4	350.7	296.5	261.7	237.0	222.4	212.3
62.5°	493.9	449.5	385.3	321.2	291.5	261.7	217.3	182.8	158.1	148.2	133.4
65°	415.0	370.4	311.1	256.9	232.2	202.5	163.1	133.4	113.7	98.8	89.0
67.5°	335.9	301.3	251.9	202.5	177.8	158.1	123.5	98.8	78.9	69.1	64.3
70°	266.8	232.2	192.6	153.1	138.4	118.5	93.8	69.1	59.3	49.4	44.4
72.5°	197.6	172.9	143.2	113.7	98.8	89.0	64.3	54.4	39.6	34.6	29.7
75°	143.2	123.5	103.7	78.9	69.1	64.3	49.4	34.6	29.7	24.7	19.7
77.5°	98.8	89.0	69.1	54.4	49.4	44.4	34.6	24.7	19.7	14.9	14.9
80°	64.3	54.4	44.4	34.6	34.6	29.7	19.7	14.9	14.9	9.8	9.8
82.5°	39.6	34.6	29.7	24.7	19.7	19.7	14.9	9.8	9.8	5.0	5.0
85°	24.7	19.7	14.9	14.9	9.8	9.8	9.8	5.0	5.0	5.0	5.0
87.5°	9.8	9.8	9.8	5.0	5.0	5.0	5.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2
2.5°	4085.2	4085.2	4095.1	4080.2	4090.2	4090.2	4100.1	4080.2	4090.2	4095.1	4104.9
5°	4065.5	4070.4	4080.2	4075.4	4080.2	4080.2	4090.2	4065.5	4085.2	4085.2	4100.1
7.5°	4045.7	4045.7	4055.5	4050.7	4060.5	4065.5	4075.4	4055.5	4075.4	4075.4	4090.2
10°	4021.0	4021.0	4035.8	4030.8	4045.7	4050.7	4065.5	4045.7	4065.5	4070.4	4085.2
12.5°	3986.4	3991.4	4006.1	4006.1	4021.0	4030.8	4045.7	4035.8	4060.5	4065.5	4085.2
15°	3946.8	3956.9	3976.6	3971.5	3986.4	4001.3	4021.0	4006.1	4040.8	4050.7	4070.4
17.5°	3897.4	3907.5	3922.1	3922.1	3937.0	3946.8	3971.5	3961.7	3991.4	3996.3	4021.0
20°	3823.5	3838.2	3858.0	3853.0	3867.9	3877.7	3897.4	3887.6	3917.3	3927.2	3951.9
22.5°	3734.5	3744.4	3759.2	3759.2	3774.1	3783.9	3803.6	3788.8	3818.5	3823.5	3843.2
25°	3616.0	3625.8	3635.7	3640.7	3655.4	3660.4	3670.2	3660.4	3685.1	3690.1	3714.6
27.5°	3462.8	3467.8	3482.6	3482.6	3492.5	3497.3	3512.2	3492.5	3527.0	3527.0	3541.9
30°	3280.0	3275.1	3294.8	3285.0	3294.8	3294.8	3309.7	3299.8	3324.5	3314.7	3329.4
32.5°	3037.9	3047.9	3047.9	3037.9	3057.8	3052.8	3052.8	3042.9	3057.8	3062.6	3072.5
35°	2756.5	2771.2	2771.2	2776.2	2781.2	2766.3	2771.2	2741.6	2766.3	2771.2	2776.2
37.5°	2450.2	2435.3	2445.2	2430.3	2455.0	2425.5	2425.5	2405.8	2425.5	2425.5	2430.3
40°	2099.5	2094.4	2104.3	2094.4	2089.6	2084.6	2074.8	2059.9	2079.6	2069.7	2084.6
42.5°	1768.4	1763.4	1763.4	1753.6	1748.7	1748.7	1738.9	1728.9	1724.0	1724.0	1748.7
45°	1427.6	1437.4	1427.6	1422.7	1432.6	1422.7	1427.6	1407.9	1417.7	1407.9	1417.7
47.5°	1141.1	1146.0	1136.1	1126.3	1141.1	1126.3	1126.3	1111.4	1131.3	1131.3	1121.2
50°	884.2	879.2	869.4	879.2	874.4	874.4	874.4	859.5	869.4	854.5	864.5
52.5°	652.0	647.2	647.2	642.2	647.2	642.2	642.2	637.2	637.2	632.3	637.2
55°	474.2	469.2	459.4	459.4	459.4	464.4	459.4	454.6	454.6	449.5	454.6
57.5°	321.2	311.1	311.1	311.1	311.1	306.3	306.3	301.3	306.3	301.3	306.3
60°	207.5	207.5	197.6	197.6	197.6	197.6	197.6	192.6	197.6	197.6	197.6
62.5°	128.4	128.4	123.5	118.5	123.5	118.5	118.5	118.5	123.5	118.5	123.5
65°	84.0	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
67.5°	59.3	54.4	54.4	54.4	54.4	54.4	54.4	49.4	54.4	54.4	54.4
70°	39.6	39.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
72.5°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
75°	19.7	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
77.5°	14.9	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
80°	9.8	9.8	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	5.0	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	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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: P684555

CATALOG NUMBER: LX6C70D010 EX6C709050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2
2.5°	4090.2	4095.1	4085.2	4090.2	4080.2	4090.2	4095.1	4104.9
5°	4080.2	4085.2	4075.4	4085.2	4075.4	4085.2	4090.2	4100.1
7.5°	4070.4	4080.2	4070.4	4080.2	4070.4	4080.2	4085.2	4095.1
10°	4070.4	4085.2	4075.4	4090.2	4075.4	4085.2	4095.1	4100.1
12.5°	4070.4	4085.2	4080.2	4090.2	4085.2	4095.1	4104.9	4114.8
15°	4060.5	4075.4	4065.5	4080.2	4075.4	4080.2	4100.1	4100.1
17.5°	4006.1	4021.0	4021.0	4030.8	4030.8	4045.7	4055.5	4065.5
20°	3937.0	3951.9	3946.8	3961.7	3961.7	3976.6	3986.4	3996.3
22.5°	3833.3	3853.0	3848.0	3862.9	3858.0	3867.9	3887.6	3882.8
25°	3700.0	3724.7	3719.7	3729.5	3724.7	3724.7	3734.5	3739.3
27.5°	3536.9	3551.7	3546.7	3556.7	3546.7	3556.7	3566.6	3571.4
30°	3324.5	3334.4	3329.4	3334.4	3329.4	3339.2	3344.2	3354.1
32.5°	3067.6	3082.5	3067.6	3077.5	3072.5	3072.5	3092.3	3082.5
35°	2761.3	2766.3	2771.2	2771.2	2761.3	2766.3	2776.2	2776.2
37.5°	2420.5	2445.2	2415.6	2430.3	2425.5	2425.5	2425.5	2440.3
40°	2064.9	2069.7	2059.9	2059.9	2059.9	2054.9	2074.8	2069.7
42.5°	1728.9	1733.9	1728.9	1714.2	1719.0	1719.0	1733.9	1714.2
45°	1402.9	1412.7	1407.9	1407.9	1398.0	1398.0	1402.9	1393.0
47.5°	1111.4	1121.2	1106.6	1111.4	1101.6	1111.4	1106.6	1116.4
50°	844.7	854.5	849.7	854.5	854.5	844.7	859.5	839.8
52.5°	632.3	637.2	632.3	627.3	622.5	622.5	632.3	627.3
55°	449.5	444.5	444.5	444.5	449.5	449.5	444.5	439.7
57.5°	301.3	301.3	296.5	296.5	301.3	291.5	296.5	291.5
60°	192.6	192.6	192.6	192.6	187.8	192.6	192.6	192.6
62.5°	118.5	118.5	118.5	118.5	118.5	118.5	118.5	118.5
65°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
67.5°	49.4	54.4	54.4	54.4	49.4	49.4	49.4	49.4
70°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
72.5°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
75°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
77.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
80°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	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)