

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: P684534

Luminaire Tested: **LX6C70D010 EX6C709030 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684534
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 EX6C709030 6LCSWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

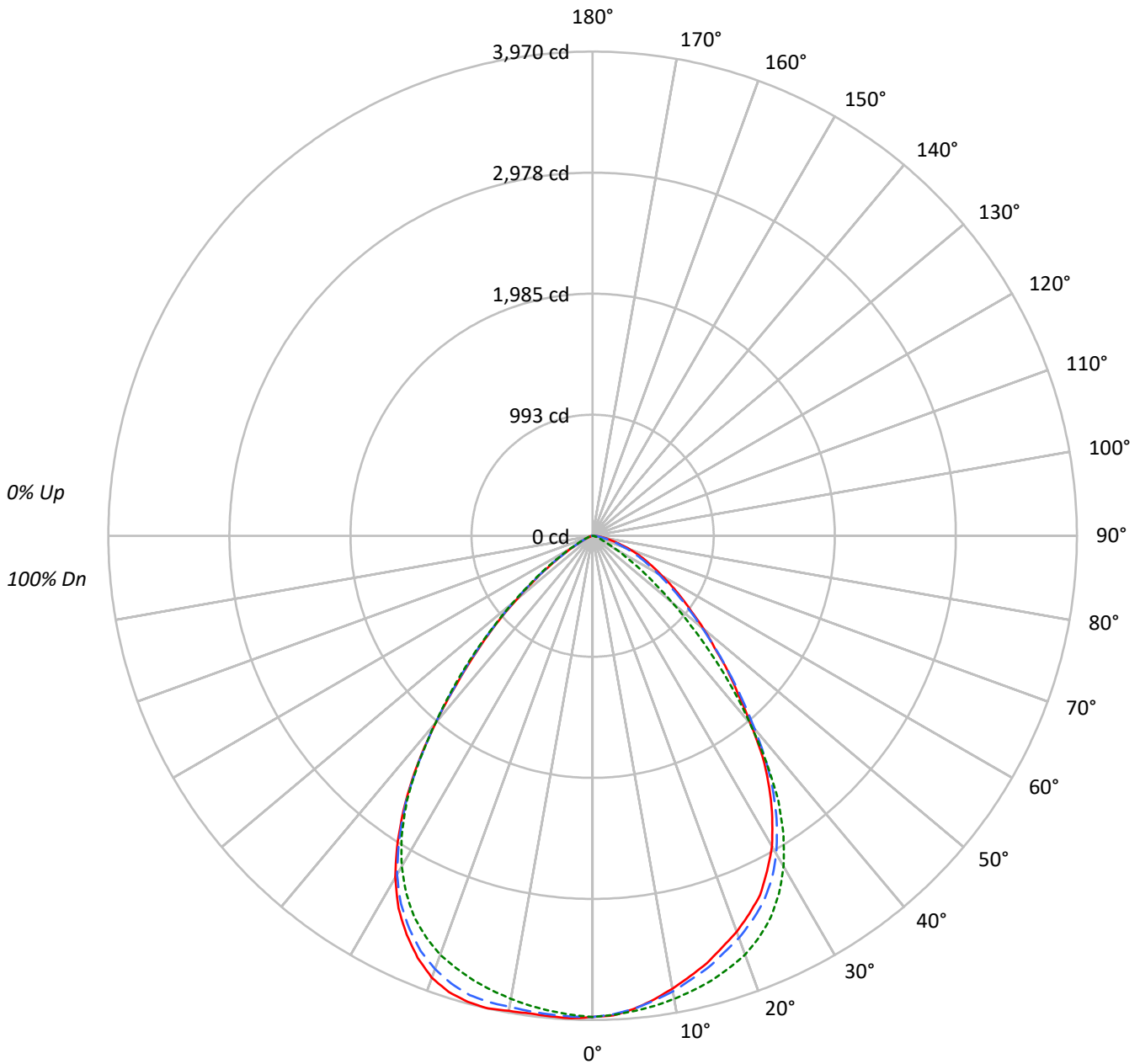
Lumens per Lamp: N/A
Luminaire Lumens: 6620.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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
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°	216320	216320	216320
5°	214258	215303	217669
10°	209844	214609	220186
15°	205824	214207	224491
20°	201559	213233	224912
25°	196590	208984	218208
30°	186136	198195	204829
35°	169034	177641	179240
40°	144263	143569	142889
45°	121183	107507	104189
50°	101208	72748	69098
55°	85177	44634	40543
60°	72110	23518	20371
65°	62445	12362	9884
70°	51932	7646	5337
75°	38380	5041	3029
80°	30086	2999	1515
85°	24027	3019	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.9	5.6
10°-20°	1064.8	16.1
20°-30°	1572.3	23.8
30°-40°	1620.4	24.5
40°-50°	1119.2	16.9
50°-60°	551.7	8.3
60°-70°	223.5	3.4
70°-80°	79.7	1.2
80°-90°	16.5	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°	3009.0	45.5
0°-40°	4629.4	69.9
0°-60°	6300.3	95.2
0°-90°	6620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6620.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3946	3946	3946	3946	3946	
5°	3894	3894	3912	3941	3956	368
15°	3627	3665	3774	3898	3956	1021
25°	3250	3312	3455	3555	3608	1486
35°	2526	2588	2654	2669	2678	1565
45°	1563	1573	1387	1368	1344	1208
55°	891	858	467	438	424	805
65°	481	434	95	76	76	478
75°	181	152	24	14	14	203
85°	38	29	5	0	0	47
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°	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0
2.5°	3936.3	3922.2	3931.7	3912.5	3936.3	3912.5	3917.3	3922.2	3917.3	3922.2	3926.8
5°	3893.5	3879.2	3893.5	3869.7	3893.5	3879.2	3879.2	3884.0	3884.0	3888.7	3893.5
7.5°	3836.3	3822.0	3836.3	3812.5	3841.0	3826.8	3826.8	3836.3	3831.5	3836.3	3845.8
10°	3769.7	3750.5	3764.8	3750.5	3779.2	3760.0	3769.7	3769.7	3769.7	3783.8	3793.5
12.5°	3698.2	3679.0	3698.2	3674.3	3702.8	3688.7	3693.3	3707.7	3712.3	3722.0	3726.6
15°	3626.6	3602.8	3612.3	3598.0	3626.6	3612.3	3617.2	3636.1	3636.1	3650.5	3664.8
17.5°	3536.1	3517.0	3536.1	3517.0	3540.8	3531.3	3540.8	3555.1	3555.1	3569.5	3583.6
20°	3455.0	3436.0	3450.3	3436.0	3464.6	3450.3	3455.0	3474.1	3478.8	3493.1	3507.5
22.5°	3355.0	3340.6	3350.1	3336.0	3364.5	3355.0	3359.8	3378.8	3383.6	3393.1	3417.0
25°	3250.1	3221.5	3235.8	3226.3	3255.0	3240.6	3250.1	3269.1	3278.8	3293.0	3312.1
27.5°	3097.6	3083.3	3092.8	3092.8	3116.6	3102.5	3107.1	3126.3	3140.5	3154.8	3178.6
30°	2940.5	2916.6	2926.1	2930.8	2950.0	2940.5	2950.0	2969.0	2973.8	2992.8	3011.8
32.5°	2740.3	2730.6	2749.8	2740.3	2749.8	2749.8	2754.4	2768.8	2778.3	2788.0	2811.8
35°	2525.8	2506.8	2525.8	2516.3	2540.1	2525.8	2540.1	2554.4	2554.4	2573.4	2587.8
37.5°	2292.3	2268.4	2277.9	2277.9	2287.4	2282.8	2282.8	2306.6	2311.3	2325.6	2339.9
40°	2015.9	2006.2	2025.4	2020.6	2025.4	2025.4	2030.1	2044.4	2053.9	2058.8	2063.6
42.5°	1768.1	1772.7	1777.6	1777.6	1777.6	1777.6	1777.6	1796.6	1791.9	1806.2	1810.9
45°	1563.1	1544.1	1553.6	1548.9	1563.1	1548.9	1563.1	1577.4	1567.9	1582.2	1572.6
47.5°	1353.4	1353.4	1353.4	1348.7	1358.2	1353.4	1362.9	1367.7	1367.7	1367.7	1362.9
50°	1186.7	1172.4	1177.0	1177.0	1181.9	1177.0	1186.7	1191.4	1191.4	1181.9	1162.9
52.5°	1024.5	1019.9	1019.9	1029.4	1029.4	1024.5	1024.5	1024.5	1024.5	1010.4	1000.7
55°	891.2	881.7	886.4	886.4	886.4	886.4	891.2	886.4	886.4	872.0	857.9
57.5°	772.0	762.5	762.5	762.5	767.2	762.5	762.5	762.5	757.7	743.4	724.4
60°	657.7	652.9	657.7	657.7	662.4	657.7	657.7	657.7	648.2	633.9	614.7
62.5°	562.4	562.4	562.4	567.0	567.0	562.4	562.4	557.5	552.9	533.7	514.7
65°	481.4	476.5	481.4	481.4	486.0	486.0	481.4	476.5	471.9	452.7	433.7
67.5°	400.4	395.5	400.4	400.4	405.0	400.4	400.4	400.4	386.0	376.5	357.3
70°	324.0	319.4	319.4	319.4	324.0	314.5	319.4	319.4	309.9	295.5	276.3
72.5°	247.8	247.8	247.8	247.8	247.8	247.8	243.0	243.0	233.5	219.2	209.7
75°	181.2	181.2	185.8	185.8	181.2	181.2	181.2	176.3	171.5	162.0	152.5
77.5°	133.5	133.5	133.5	133.5	128.7	128.7	128.7	123.8	119.2	114.3	104.8
80°	95.3	95.3	95.3	90.5	95.3	90.5	90.5	90.5	81.0	76.2	71.5
82.5°	66.7	62.0	62.0	62.0	62.0	62.0	62.0	57.2	57.2	52.5	47.7
85°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	33.3	28.7	28.7
87.5°	19.0	23.8	23.8	23.8	23.8	23.8	23.8	19.0	19.0	19.0	14.3
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°	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0
2.5°	3926.8	3926.8	3936.3	3922.2	3946.0	3931.7	3926.8	3950.7	3936.3	3931.7	3941.2
5°	3893.5	3898.3	3903.0	3893.5	3917.3	3903.0	3903.0	3926.8	3917.3	3912.5	3926.8
7.5°	3850.7	3855.3	3864.8	3860.2	3879.2	3869.7	3874.5	3898.3	3888.7	3888.7	3903.0
10°	3798.2	3807.7	3817.3	3817.3	3841.0	3831.5	3831.5	3860.2	3850.7	3855.3	3874.5
12.5°	3736.1	3750.5	3764.8	3769.7	3793.5	3779.2	3783.8	3817.3	3812.5	3817.3	3836.3
15°	3669.5	3688.7	3702.8	3702.8	3731.5	3717.2	3731.5	3764.8	3755.3	3774.3	3798.2
17.5°	3593.3	3612.3	3631.3	3636.1	3664.8	3655.1	3674.3	3707.7	3707.7	3717.2	3745.8
20°	3521.8	3545.6	3555.1	3569.5	3598.0	3593.3	3602.8	3641.0	3641.0	3655.1	3683.8
22.5°	3426.5	3450.3	3469.3	3483.6	3507.5	3507.5	3521.8	3555.1	3555.1	3564.6	3593.3
25°	3321.6	3350.1	3364.5	3378.8	3402.6	3397.8	3412.1	3440.8	3445.5	3455.0	3483.6
27.5°	3188.1	3212.0	3231.1	3240.6	3274.0	3255.0	3269.1	3302.6	3297.8	3307.3	3331.1
30°	3021.5	3045.3	3064.3	3064.3	3092.8	3092.8	3107.1	3121.5	3121.5	3131.0	3150.1
32.5°	2825.9	2854.6	2854.6	2869.0	2888.0	2869.0	2888.0	2906.9	2897.4	2911.8	2926.1
35°	2601.9	2616.3	2621.1	2621.1	2635.4	2630.6	2625.8	2640.1	2630.6	2654.4	2668.8
37.5°	2330.4	2349.4	2339.9	2349.4	2344.6	2330.4	2330.4	2354.3	2335.1	2339.9	2354.3
40°	2068.2	2068.2	2063.6	2039.8	2044.4	2030.1	2025.4	2030.1	2011.1	2006.2	2025.4
42.5°	1796.6	1791.9	1777.6	1744.2	1748.9	1725.1	1706.1	1706.1	1696.6	1691.7	1696.6
45°	1553.6	1539.2	1515.4	1477.4	1467.7	1448.7	1410.6	1401.1	1386.7	1386.7	1391.6
47.5°	1329.6	1310.6	1272.4	1229.6	1205.7	1181.9	1143.7	1129.4	1105.5	1096.0	1105.5
50°	1143.7	1110.4	1062.7	1000.7	976.9	948.4	910.2	886.4	862.5	853.0	848.2
52.5°	972.2	924.5	876.9	800.7	781.5	753.0	700.5	676.7	652.9	633.9	633.9
55°	824.4	781.5	714.9	643.4	614.7	586.2	533.7	500.4	476.5	467.0	457.5
57.5°	691.0	643.4	581.4	505.2	476.5	448.0	395.5	362.2	338.3	324.0	314.5
60°	581.4	529.0	467.0	400.4	367.0	338.3	286.0	252.5	228.7	214.5	204.8
62.5°	476.5	433.7	371.7	309.9	281.2	252.5	209.7	176.3	152.5	143.0	128.7
65°	400.4	357.3	300.2	247.8	224.0	195.3	157.3	128.7	109.7	95.3	85.8
67.5°	324.0	290.7	243.0	195.3	171.5	152.5	119.2	95.3	76.2	66.7	62.0
70°	257.3	224.0	185.8	147.7	133.5	114.3	90.5	66.7	57.2	47.7	42.8
72.5°	190.7	166.8	138.2	109.7	95.3	85.8	62.0	52.5	38.2	33.3	28.7
75°	138.2	119.2	100.0	76.2	66.7	62.0	47.7	33.3	28.7	23.8	19.0
77.5°	95.3	85.8	66.7	52.5	47.7	42.8	33.3	23.8	19.0	14.3	14.3
80°	62.0	52.5	42.8	33.3	33.3	28.7	19.0	14.3	14.3	9.5	9.5
82.5°	38.2	33.3	28.7	23.8	19.0	19.0	14.3	9.5	9.5	4.8	4.8
85°	23.8	19.0	14.3	14.3	9.5	9.5	9.5	4.8	4.8	4.8	4.8
87.5°	9.5	9.5	9.5	4.8	4.8	4.8	4.8	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°	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0
2.5°	3941.2	3941.2	3950.7	3936.3	3946.0	3946.0	3955.5	3936.3	3946.0	3950.7	3960.2
5°	3922.2	3926.8	3936.3	3931.7	3936.3	3936.3	3946.0	3922.2	3941.2	3941.2	3955.5
7.5°	3903.0	3903.0	3912.5	3907.8	3917.3	3922.2	3931.7	3912.5	3931.7	3931.7	3946.0
10°	3879.2	3879.2	3893.5	3888.7	3903.0	3907.8	3922.2	3903.0	3922.2	3926.8	3941.2
12.5°	3845.8	3850.7	3864.8	3864.8	3879.2	3888.7	3903.0	3893.5	3917.3	3922.2	3941.2
15°	3807.7	3817.3	3836.3	3831.5	3845.8	3860.2	3879.2	3864.8	3898.3	3907.8	3926.8
17.5°	3760.0	3769.7	3783.8	3783.8	3798.2	3807.7	3831.5	3822.0	3850.7	3855.3	3879.2
20°	3688.7	3702.8	3722.0	3717.2	3731.5	3741.0	3760.0	3750.5	3779.2	3788.7	3812.5
22.5°	3602.8	3612.3	3626.6	3626.6	3641.0	3650.5	3669.5	3655.1	3683.8	3688.7	3707.7
25°	3488.5	3498.0	3507.5	3512.3	3526.5	3531.3	3540.8	3531.3	3555.1	3560.0	3583.6
27.5°	3340.6	3345.5	3359.8	3359.8	3369.3	3374.0	3388.3	3369.3	3402.6	3402.6	3417.0
30°	3164.3	3159.6	3178.6	3169.1	3178.6	3178.6	3193.0	3183.5	3207.3	3197.8	3212.0
32.5°	2930.8	2940.5	2940.5	2930.8	2950.0	2945.1	2945.1	2935.6	2950.0	2954.6	2964.1
35°	2659.3	2673.4	2673.4	2678.3	2683.1	2668.8	2673.4	2644.9	2668.8	2673.4	2678.3
37.5°	2363.8	2349.4	2358.9	2344.6	2368.4	2339.9	2339.9	2320.9	2339.9	2339.9	2344.6
40°	2025.4	2020.6	2030.1	2020.6	2015.9	2011.1	2001.6	1987.2	2006.2	1996.7	2011.1
42.5°	1706.1	1701.2	1701.2	1691.7	1687.1	1687.1	1677.6	1667.9	1663.2	1663.2	1687.1
45°	1377.2	1386.7	1377.2	1372.6	1382.1	1372.6	1377.2	1358.2	1367.7	1358.2	1367.7
47.5°	1100.9	1105.5	1096.0	1086.5	1100.9	1086.5	1086.5	1072.2	1091.4	1091.4	1081.7
50°	853.0	848.2	838.7	848.2	843.5	843.5	843.5	829.2	838.7	824.4	834.0
52.5°	629.0	624.4	624.4	619.5	624.4	619.5	619.5	614.7	614.7	610.0	614.7
55°	457.5	452.7	443.2	443.2	443.2	448.0	443.2	438.5	438.5	433.7	438.5
57.5°	309.9	300.2	300.2	300.2	300.2	295.5	295.5	290.7	295.5	290.7	295.5
60°	200.2	200.2	190.7	190.7	190.7	190.7	190.7	185.8	190.7	190.7	190.7
62.5°	123.8	123.8	119.2	114.3	119.2	114.3	114.3	114.3	119.2	114.3	119.2
65°	81.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
67.5°	57.2	52.5	52.5	52.5	52.5	52.5	52.5	47.7	52.5	52.5	52.5
70°	38.2	38.2	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
72.5°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
75°	19.0	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
77.5°	14.3	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
80°	9.5	9.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	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	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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: P684534

CATALOG NUMBER: LX6C70D010 EX6C709030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0	3946.0
2.5°	3946.0	3950.7	3941.2	3946.0	3936.3	3946.0	3950.7	3960.2
5°	3936.3	3941.2	3931.7	3941.2	3931.7	3941.2	3946.0	3955.5
7.5°	3926.8	3936.3	3926.8	3936.3	3926.8	3936.3	3941.2	3950.7
10°	3926.8	3941.2	3931.7	3946.0	3931.7	3941.2	3950.7	3955.5
12.5°	3926.8	3941.2	3936.3	3946.0	3941.2	3950.7	3960.2	3969.7
15°	3917.3	3931.7	3922.2	3936.3	3931.7	3936.3	3955.5	3955.5
17.5°	3864.8	3879.2	3879.2	3888.7	3888.7	3903.0	3912.5	3922.2
20°	3798.2	3812.5	3807.7	3822.0	3822.0	3836.3	3845.8	3855.3
22.5°	3698.2	3717.2	3712.3	3726.6	3722.0	3731.5	3750.5	3745.8
25°	3569.5	3593.3	3588.5	3598.0	3593.3	3593.3	3602.8	3607.5
27.5°	3412.1	3426.5	3421.6	3431.3	3421.6	3431.3	3440.8	3445.5
30°	3207.3	3216.8	3212.0	3216.8	3212.0	3221.5	3226.3	3235.8
32.5°	2959.5	2973.8	2959.5	2969.0	2964.1	2964.1	2983.3	2973.8
35°	2663.9	2668.8	2673.4	2673.4	2663.9	2668.8	2678.3	2678.3
37.5°	2335.1	2358.9	2330.4	2344.6	2339.9	2339.9	2339.9	2354.3
40°	1992.1	1996.7	1987.2	1987.2	1987.2	1982.4	2001.6	1996.7
42.5°	1667.9	1672.7	1667.9	1653.7	1658.4	1658.4	1672.7	1653.7
45°	1353.4	1362.9	1358.2	1358.2	1348.7	1348.7	1353.4	1343.9
47.5°	1072.2	1081.7	1067.5	1072.2	1062.7	1072.2	1067.5	1077.0
50°	814.9	824.4	819.7	824.4	824.4	814.9	829.2	810.2
52.5°	610.0	614.7	610.0	605.2	600.5	600.5	610.0	605.2
55°	433.7	428.8	428.8	428.8	433.7	433.7	428.8	424.2
57.5°	290.7	290.7	286.0	286.0	290.7	281.2	286.0	281.2
60°	185.8	185.8	185.8	185.8	181.2	185.8	185.8	185.8
62.5°	114.3	114.3	114.3	114.3	114.3	114.3	114.3	114.3
65°	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
67.5°	47.7	52.5	52.5	52.5	47.7	47.7	47.7	47.7
70°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
72.5°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
75°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
77.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	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)