

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: P684541

Luminaire Tested: **LX6C70D010 EX6C709035 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684541
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 EX6C709035 6LCSWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

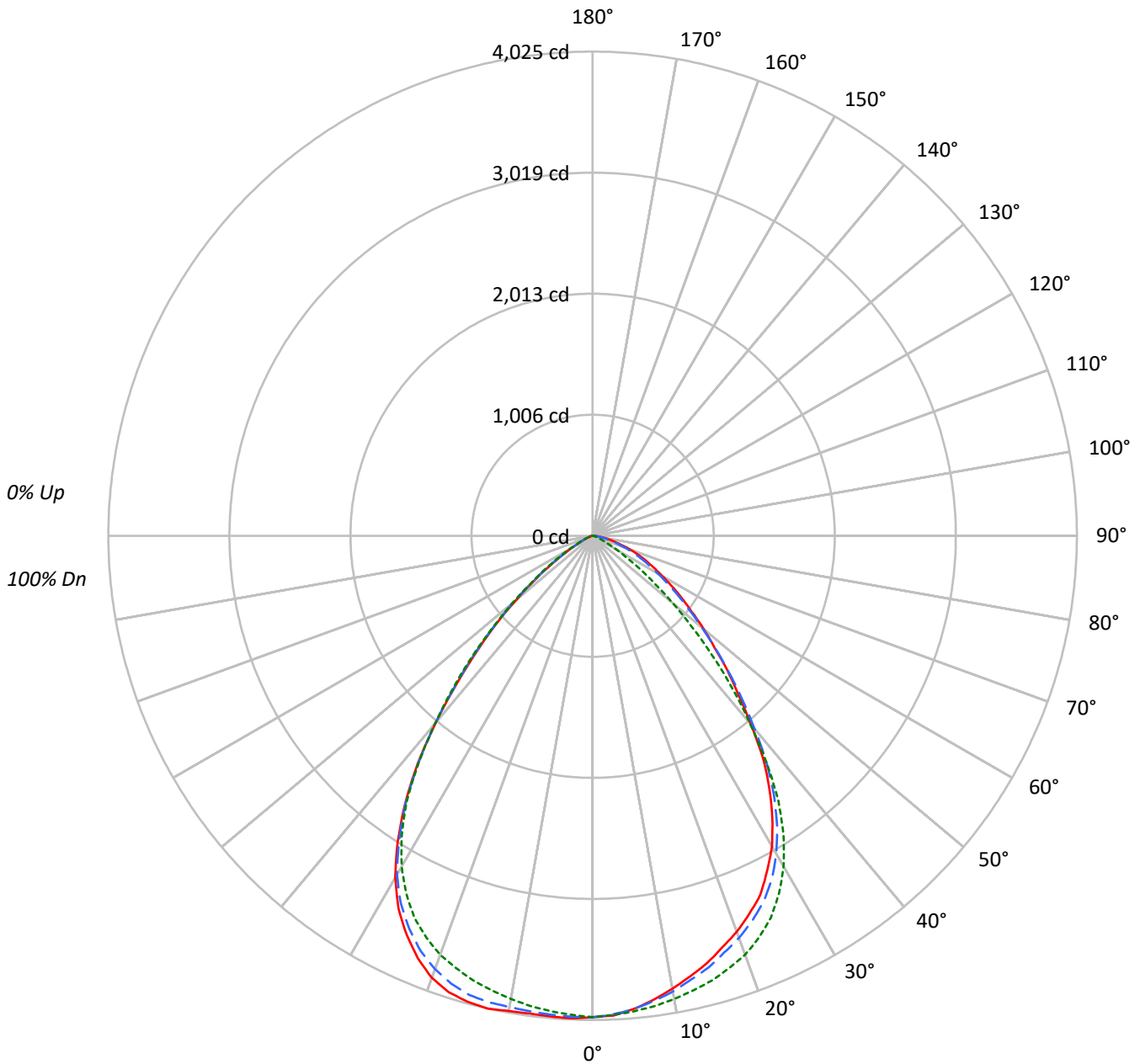
Lumens per Lamp: N/A
Luminaire Lumens: 6713.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	219357	219357	219357
5°	217268	218330	220729
10°	212788	217626	223281
15°	208719	217215	227646
20°	204389	216231	228074
25°	199354	211917	221275
30°	188751	200974	207709
35°	171410	180137	181756
40°	146288	145587	144900
45°	122881	109019	105654
50°	102632	73772	70070
55°	86372	45265	41107
60°	73119	23847	20667
65°	63314	12543	10014
70°	52669	7742	5418
75°	38909	5126	3071
80°	30528	3031	1547
85°	24342	3082	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.1	5.6
10°-20°	1079.8	16.1
20°-30°	1594.4	23.8
30°-40°	1643.2	24.5
40°-50°	1134.9	16.9
50°-60°	559.4	8.3
60°-70°	226.7	3.4
70°-80°	80.8	1.2
80°-90°	16.7	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°	3051.3	45.5
0°-40°	4694.5	69.9
0°-60°	6388.8	95.2
0°-90°	6713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6713.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4001	4001	4001	4001	4001	
5°	3948	3948	3968	3996	4011	373
15°	3678	3716	3827	3953	4011	1035
25°	3296	3359	3504	3605	3658	1507
35°	2561	2624	2692	2706	2716	1587
45°	1585	1595	1406	1387	1363	1225
55°	904	870	474	445	430	817
65°	488	440	97	77	77	485
75°	184	155	24	14	14	206
85°	39	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°	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4
2.5°	3991.6	3977.3	3986.9	3967.5	3991.6	3967.5	3972.4	3977.3	3972.4	3977.3	3982.0
5°	3948.2	3933.7	3948.2	3924.0	3948.2	3933.7	3933.7	3938.6	3938.6	3943.3	3948.2
7.5°	3890.2	3875.7	3890.2	3866.0	3894.9	3880.6	3880.6	3890.2	3885.3	3890.2	3899.8
10°	3822.6	3803.2	3817.7	3803.2	3832.2	3812.8	3822.6	3822.6	3822.6	3837.0	3846.8
12.5°	3750.1	3730.7	3750.1	3725.9	3754.8	3740.5	3745.2	3759.7	3764.5	3774.3	3779.0
15°	3677.6	3653.4	3663.1	3648.5	3677.6	3663.1	3668.0	3687.2	3687.2	3701.8	3716.3
17.5°	3585.8	3566.4	3585.8	3566.4	3590.6	3580.9	3590.6	3605.1	3605.1	3619.6	3634.0
20°	3503.5	3484.2	3498.8	3484.2	3513.3	3498.8	3503.5	3522.9	3527.7	3542.2	3556.7
22.5°	3402.1	3387.6	3397.2	3382.8	3411.7	3402.1	3407.0	3426.3	3431.2	3440.8	3465.0
25°	3295.8	3266.7	3281.3	3271.6	3300.7	3286.2	3295.8	3315.1	3324.9	3339.2	3358.7
27.5°	3141.1	3126.6	3136.2	3136.2	3160.4	3146.0	3150.8	3170.2	3184.6	3199.1	3223.3
30°	2981.8	2957.6	2967.2	2972.0	2991.4	2981.8	2991.4	3010.7	3015.6	3034.8	3054.1
32.5°	2778.8	2769.0	2788.4	2778.8	2788.4	2788.4	2793.1	2807.7	2817.3	2827.1	2851.3
35°	2561.3	2542.0	2561.3	2551.6	2575.8	2561.3	2575.8	2590.3	2590.3	2609.6	2624.1
37.5°	2324.5	2300.3	2309.9	2309.9	2319.6	2314.8	2314.8	2339.0	2343.7	2358.3	2372.8
40°	2044.2	2034.4	2053.9	2049.0	2053.9	2053.9	2058.6	2073.1	2082.8	2087.7	2092.6
42.5°	1792.9	1797.6	1802.5	1802.5	1802.5	1802.5	1802.5	1821.8	1817.1	1831.6	1836.3
45°	1585.0	1565.8	1575.4	1570.7	1585.0	1570.7	1585.0	1599.6	1589.9	1604.5	1594.6
47.5°	1372.4	1372.4	1372.4	1367.7	1377.3	1372.4	1382.0	1386.9	1386.9	1386.9	1382.0
50°	1203.4	1188.9	1193.6	1193.6	1198.5	1193.6	1203.4	1208.1	1208.1	1198.5	1179.2
52.5°	1038.9	1034.2	1034.2	1043.8	1043.8	1038.9	1038.9	1038.9	1038.9	1024.6	1014.8
55°	903.7	894.1	898.8	898.8	898.8	898.8	903.7	898.8	898.8	884.3	869.9
57.5°	782.9	773.2	773.2	773.2	778.0	773.2	773.2	773.2	768.3	753.8	734.5
60°	666.9	662.0	666.9	666.9	671.7	666.9	666.9	666.9	657.3	642.8	623.3
62.5°	570.3	570.3	570.3	575.0	575.0	570.3	570.3	565.4	560.6	541.2	521.9
65°	488.1	483.2	488.1	488.1	492.8	492.8	488.1	483.2	478.5	459.0	439.8
67.5°	406.0	401.1	406.0	406.0	410.7	406.0	406.0	406.0	391.4	381.8	362.4
70°	328.6	323.8	323.8	323.8	328.6	318.9	323.8	323.8	314.2	299.7	280.2
72.5°	251.3	251.3	251.3	251.3	251.3	251.3	246.4	246.4	236.8	222.3	212.6
75°	183.7	183.7	188.5	188.5	183.7	183.7	183.7	178.8	173.9	164.3	154.6
77.5°	135.4	135.4	135.4	135.4	130.5	130.5	130.5	125.6	120.8	115.9	106.3
80°	96.7	96.7	96.7	91.8	96.7	91.8	91.8	91.8	82.1	77.2	72.5
82.5°	67.6	62.9	62.9	62.9	62.9	62.9	62.9	58.0	58.0	53.2	48.3
85°	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	33.8	29.1	29.1
87.5°	19.3	24.2	24.2	24.2	24.2	24.2	24.2	19.3	19.3	19.3	14.5
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°	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4
2.5°	3982.0	3982.0	3991.6	3977.3	4001.4	3986.9	3982.0	4006.2	3991.6	3986.9	3996.5
5°	3948.2	3953.1	3957.8	3948.2	3972.4	3957.8	3957.8	3982.0	3972.4	3967.5	3982.0
7.5°	3904.8	3909.5	3919.1	3914.4	3933.7	3924.0	3928.9	3953.1	3943.3	3943.3	3957.8
10°	3851.5	3861.1	3871.0	3871.0	3894.9	3885.3	3885.3	3914.4	3904.8	3909.5	3928.9
12.5°	3788.6	3803.2	3817.7	3822.6	3846.8	3832.2	3837.0	3871.0	3866.0	3871.0	3890.2
15°	3721.0	3740.5	3754.8	3754.8	3783.9	3769.4	3783.9	3817.7	3808.1	3827.3	3851.5
17.5°	3643.8	3663.1	3682.3	3687.2	3716.3	3706.5	3725.9	3759.7	3759.7	3769.4	3798.4
20°	3571.3	3595.5	3605.1	3619.6	3648.5	3643.8	3653.4	3692.1	3692.1	3706.5	3735.6
22.5°	3474.6	3498.8	3518.0	3532.6	3556.7	3556.7	3571.3	3605.1	3605.1	3614.7	3643.8
25°	3368.3	3397.2	3411.7	3426.3	3450.4	3445.5	3460.1	3489.1	3493.9	3503.5	3532.6
27.5°	3232.9	3257.1	3276.5	3286.2	3320.0	3300.7	3315.1	3349.0	3344.1	3353.8	3377.9
30°	3063.9	3088.1	3107.3	3107.3	3136.2	3136.2	3150.8	3165.3	3165.3	3174.9	3194.4
32.5°	2865.6	2894.7	2894.7	2909.3	2928.5	2909.3	2928.5	2947.8	2938.2	2952.7	2967.2
35°	2638.5	2653.0	2657.9	2657.9	2672.5	2667.6	2662.7	2677.2	2667.6	2691.7	2706.3
37.5°	2363.2	2382.4	2372.8	2382.4	2377.5	2363.2	2363.2	2387.3	2367.9	2372.8	2387.3
40°	2097.3	2097.3	2092.6	2068.4	2073.1	2058.6	2053.9	2058.6	2039.3	2034.4	2053.9
42.5°	1821.8	1817.1	1802.5	1768.7	1773.5	1749.3	1730.0	1730.0	1720.4	1715.5	1720.4
45°	1575.4	1560.8	1536.7	1498.2	1488.3	1469.1	1430.4	1420.7	1406.2	1406.2	1411.1
47.5°	1348.2	1329.0	1290.3	1246.8	1222.7	1198.5	1159.8	1145.2	1121.1	1111.4	1121.1
50°	1159.8	1126.0	1077.6	1014.8	990.6	961.7	923.0	898.8	874.6	865.0	860.1
52.5°	985.9	937.5	889.2	812.0	792.5	763.6	710.4	686.2	662.0	642.8	642.8
55°	835.9	792.5	724.9	652.4	623.3	594.4	541.2	507.4	483.2	473.6	463.9
57.5°	700.7	652.4	589.5	512.3	483.2	454.3	401.1	367.3	343.1	328.6	318.9
60°	589.5	536.5	473.6	406.0	372.2	343.1	290.0	256.1	231.9	217.5	207.7
62.5°	483.2	439.8	376.9	314.2	285.1	256.1	212.6	178.8	154.6	145.0	130.5
65°	406.0	362.4	304.4	251.3	227.2	198.1	159.6	130.5	111.2	96.7	87.0
67.5°	328.6	294.8	246.4	198.1	173.9	154.6	120.8	96.7	77.2	67.6	62.9
70°	261.0	227.2	188.5	149.7	135.4	115.9	91.8	67.6	58.0	48.3	43.4
72.5°	193.4	169.2	140.1	111.2	96.7	87.0	62.9	53.2	38.7	33.8	29.1
75°	140.1	120.8	101.4	77.2	67.6	62.9	48.3	33.8	29.1	24.2	19.3
77.5°	96.7	87.0	67.6	53.2	48.3	43.4	33.8	24.2	19.3	14.5	14.5
80°	62.9	53.2	43.4	33.8	33.8	29.1	19.3	14.5	14.5	9.6	9.6
82.5°	38.7	33.8	29.1	24.2	19.3	19.3	14.5	9.6	9.6	4.9	4.9
85°	24.2	19.3	14.5	14.5	9.6	9.6	9.6	4.9	4.9	4.9	4.9
87.5°	9.6	9.6	9.6	4.9	4.9	4.9	4.9	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°	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4
2.5°	3996.5	3996.5	4006.2	3991.6	4001.4	4001.4	4011.1	3991.6	4001.4	4006.2	4015.8
5°	3977.3	3982.0	3991.6	3986.9	3991.6	3991.6	4001.4	3977.3	3996.5	3996.5	4011.1
7.5°	3957.8	3957.8	3967.5	3962.7	3972.4	3977.3	3986.9	3967.5	3986.9	3986.9	4001.4
10°	3933.7	3933.7	3948.2	3943.3	3957.8	3962.7	3977.3	3957.8	3977.3	3982.0	3996.5
12.5°	3899.8	3904.8	3919.1	3919.1	3933.7	3943.3	3957.8	3948.2	3972.4	3977.3	3996.5
15°	3861.1	3871.0	3890.2	3885.3	3899.8	3914.4	3933.7	3919.1	3953.1	3962.7	3982.0
17.5°	3812.8	3822.6	3837.0	3837.0	3851.5	3861.1	3885.3	3875.7	3904.8	3909.5	3933.7
20°	3740.5	3754.8	3774.3	3769.4	3783.9	3793.5	3812.8	3803.2	3832.2	3841.9	3866.0
22.5°	3653.4	3663.1	3677.6	3677.6	3692.1	3701.8	3721.0	3706.5	3735.6	3740.5	3759.7
25°	3537.5	3547.1	3556.7	3561.7	3576.0	3580.9	3590.6	3580.9	3605.1	3610.0	3634.0
27.5°	3387.6	3392.5	3407.0	3407.0	3416.6	3421.4	3435.9	3416.6	3450.4	3450.4	3465.0
30°	3208.7	3204.0	3223.3	3213.7	3223.3	3223.3	3237.8	3228.2	3252.4	3242.7	3257.1
32.5°	2972.0	2981.8	2981.8	2972.0	2991.4	2986.5	2986.5	2976.9	2991.4	2996.1	3005.8
35°	2696.6	2711.0	2711.0	2715.9	2720.8	2706.3	2711.0	2682.1	2706.3	2711.0	2715.9
37.5°	2397.0	2382.4	2392.1	2377.5	2401.7	2372.8	2372.8	2353.5	2372.8	2372.8	2377.5
40°	2053.9	2049.0	2058.6	2049.0	2044.2	2039.3	2029.7	2015.2	2034.4	2024.8	2039.3
42.5°	1730.0	1725.1	1725.1	1715.5	1710.8	1710.8	1701.1	1691.3	1686.6	1686.6	1710.8
45°	1396.6	1406.2	1396.6	1391.8	1401.5	1391.8	1396.6	1377.3	1386.9	1377.3	1386.9
47.5°	1116.3	1121.1	1111.4	1101.8	1116.3	1101.8	1101.8	1087.3	1106.7	1106.7	1096.9
50°	865.0	860.1	850.5	860.1	855.4	855.4	855.4	840.8	850.5	835.9	845.8
52.5°	637.9	633.1	633.1	628.2	633.1	628.2	628.2	623.3	623.3	618.6	623.3
55°	463.9	459.0	449.4	449.4	449.4	454.3	449.4	444.7	444.7	439.8	444.7
57.5°	314.2	304.4	304.4	304.4	304.4	299.7	299.7	294.8	299.7	294.8	299.7
60°	203.0	203.0	193.4	193.4	193.4	193.4	193.4	188.5	193.4	193.4	193.4
62.5°	125.6	125.6	120.8	115.9	120.8	115.9	115.9	115.9	120.8	115.9	120.8
65°	82.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
67.5°	58.0	53.2	53.2	53.2	53.2	53.2	53.2	48.3	53.2	53.2	53.2
70°	38.7	38.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
72.5°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
75°	19.3	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
77.5°	14.5	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
80°	9.6	9.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	4.9	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	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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: P684541

CATALOG NUMBER: LX6C70D010 EX6C709035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4	4001.4
2.5°	4001.4	4006.2	3996.5	4001.4	3991.6	4001.4	4006.2	4015.8
5°	3991.6	3996.5	3986.9	3996.5	3986.9	3996.5	4001.4	4011.1
7.5°	3982.0	3991.6	3982.0	3991.6	3982.0	3991.6	3996.5	4006.2
10°	3982.0	3996.5	3986.9	4001.4	3986.9	3996.5	4006.2	4011.1
12.5°	3982.0	3996.5	3991.6	4001.4	3996.5	4006.2	4015.8	4025.4
15°	3972.4	3986.9	3977.3	3991.6	3986.9	3991.6	4011.1	4011.1
17.5°	3919.1	3933.7	3933.7	3943.3	3943.3	3957.8	3967.5	3977.3
20°	3851.5	3866.0	3861.1	3875.7	3875.7	3890.2	3899.8	3909.5
22.5°	3750.1	3769.4	3764.5	3779.0	3774.3	3783.9	3803.2	3798.4
25°	3619.6	3643.8	3638.9	3648.5	3643.8	3643.8	3653.4	3658.2
27.5°	3460.1	3474.6	3469.7	3479.5	3469.7	3479.5	3489.1	3493.9
30°	3252.4	3262.0	3257.1	3262.0	3257.1	3266.7	3271.6	3281.3
32.5°	3001.0	3015.6	3001.0	3010.7	3005.8	3005.8	3025.2	3015.6
35°	2701.4	2706.3	2711.0	2711.0	2701.4	2706.3	2715.9	2715.9
37.5°	2367.9	2392.1	2363.2	2377.5	2372.8	2372.8	2372.8	2387.3
40°	2020.1	2024.8	2015.2	2015.2	2015.2	2010.3	2029.7	2024.8
42.5°	1691.3	1696.2	1691.3	1677.0	1681.7	1681.7	1696.2	1677.0
45°	1372.4	1382.0	1377.3	1377.3	1367.7	1367.7	1372.4	1362.8
47.5°	1087.3	1096.9	1082.5	1087.3	1077.6	1087.3	1082.5	1092.2
50°	826.3	835.9	831.2	835.9	835.9	826.3	840.8	821.6
52.5°	618.6	623.3	618.6	613.7	609.0	609.0	618.6	613.7
55°	439.8	434.9	434.9	434.9	439.8	439.8	434.9	430.1
57.5°	294.8	294.8	290.0	290.0	294.8	285.1	290.0	285.1
60°	188.5	188.5	188.5	188.5	183.7	188.5	188.5	188.5
62.5°	115.9	115.9	115.9	115.9	115.9	115.9	115.9	115.9
65°	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
67.5°	48.3	53.2	53.2	53.2	48.3	48.3	48.3	48.3
70°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
72.5°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
75°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
77.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	4.9	4.9	4.9	4.9	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)