

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: P684548

Luminaire Tested: **LX6C70D010 EX6C709040 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684548
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 EX6C709040 6LCSWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

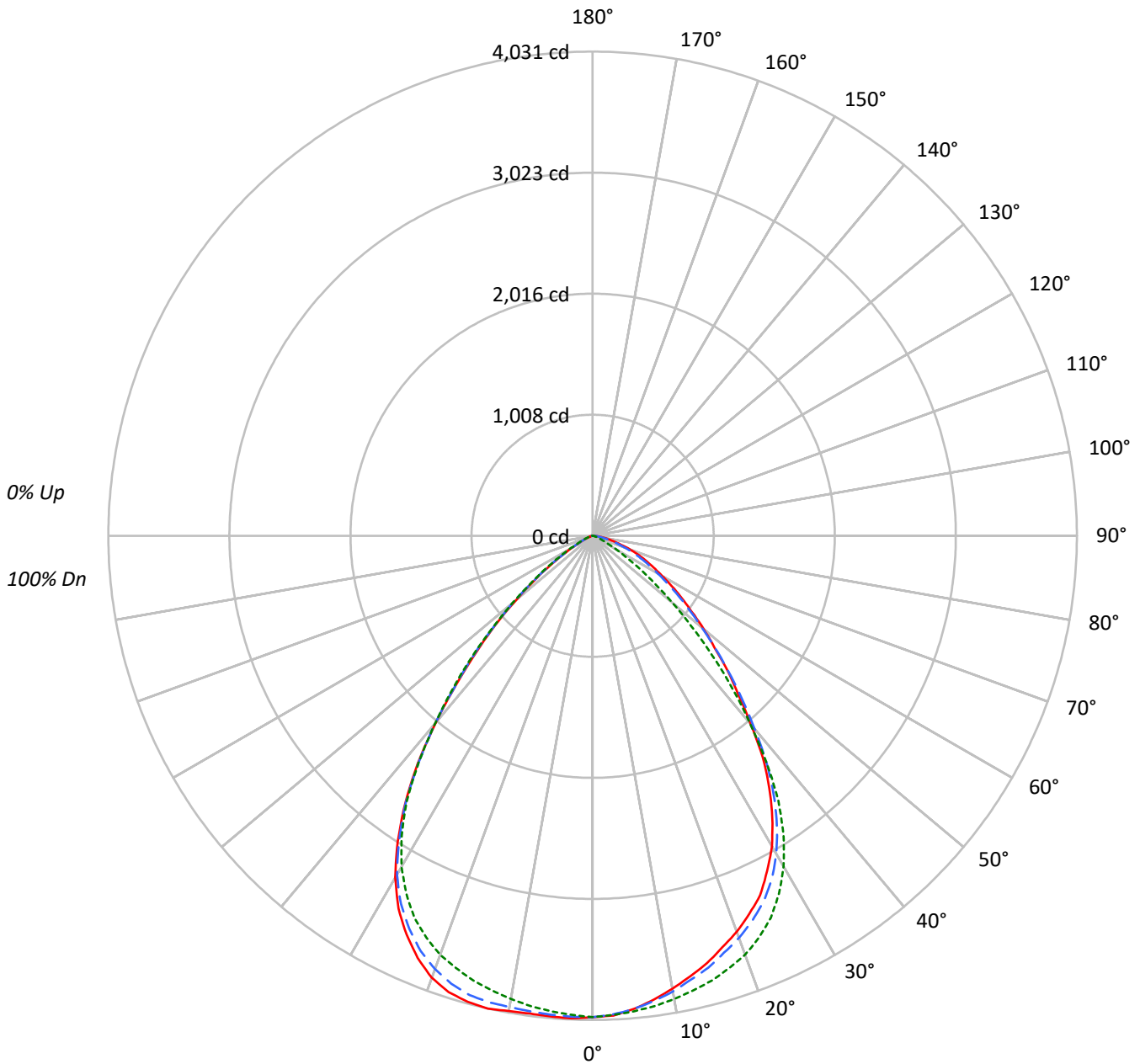
Lumens per Lamp: N/A
Luminaire Lumens: 6723.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	219686	219686	219686
5°	217592	218655	221054
10°	213106	217949	223610
15°	209031	217538	227981
20°	204692	216552	228412
25°	199651	212232	221602
30°	189029	201278	208013
35°	171664	180405	182024
40°	146510	145809	145115
45°	123067	109182	105809
50°	102786	73882	70173
55°	86506	45332	41174
60°	73229	23891	20689
65°	63405	12556	10027
70°	52749	7758	5434
75°	38973	5126	3092
80°	30559	3031	1547
85°	24405	3082	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.7	5.6
10°-20°	1081.4	16.1
20°-30°	1596.8	23.8
30°-40°	1645.6	24.5
40°-50°	1136.6	16.9
50°-60°	560.2	8.3
60°-70°	227.0	3.4
70°-80°	80.9	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°	3055.8	45.5
0°-40°	4701.5	69.9
0°-60°	6398.3	95.2
0°-90°	6723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6723.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4007	4007	4007	4007	4007	
5°	3954	3954	3973	4002	4017	373
15°	3683	3722	3833	3959	4017	1037
25°	3301	3364	3509	3610	3664	1509
35°	2565	2628	2696	2710	2720	1589
45°	1587	1597	1408	1389	1365	1227
55°	905	871	474	445	431	818
65°	489	440	97	77	77	486
75°	184	155	24	15	15	207
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°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
2.5°	3997.6	3983.2	3992.8	3973.4	3997.6	3973.4	3978.3	3983.2	3978.3	3983.2	3987.9
5°	3954.1	3939.5	3954.1	3929.9	3954.1	3939.5	3939.5	3944.4	3944.4	3949.2	3954.1
7.5°	3896.0	3881.5	3896.0	3871.8	3900.7	3886.4	3886.4	3896.0	3891.1	3896.0	3905.7
10°	3828.3	3808.8	3823.4	3808.8	3838.0	3818.5	3828.3	3828.3	3828.3	3842.7	3852.5
12.5°	3755.7	3736.2	3755.7	3731.5	3760.4	3746.0	3750.8	3765.3	3770.1	3779.9	3784.6
15°	3683.1	3658.9	3668.5	3654.0	3683.1	3668.5	3673.4	3692.7	3692.7	3707.3	3721.8
17.5°	3591.2	3571.7	3591.2	3571.7	3595.9	3586.3	3595.9	3610.5	3610.5	3625.0	3639.4
20°	3508.7	3489.4	3504.0	3489.4	3518.6	3504.0	3508.7	3528.2	3532.9	3547.5	3562.0
22.5°	3407.2	3392.6	3402.3	3387.9	3416.8	3407.2	3412.1	3431.4	3436.3	3445.9	3470.1
25°	3300.7	3271.6	3286.1	3276.5	3305.6	3291.1	3300.7	3320.0	3329.8	3344.2	3363.7
27.5°	3145.8	3131.3	3140.9	3140.9	3165.1	3150.7	3155.5	3174.9	3189.3	3203.9	3228.1
30°	2986.2	2962.0	2971.6	2976.4	2995.9	2986.2	2995.9	3015.1	3020.1	3039.4	3058.6
32.5°	2782.9	2773.1	2792.6	2782.9	2792.6	2792.6	2797.3	2811.9	2821.5	2831.3	2855.5
35°	2565.1	2545.8	2565.1	2555.4	2579.6	2565.1	2579.6	2594.2	2594.2	2613.5	2628.0
37.5°	2327.9	2303.7	2313.4	2313.4	2323.0	2318.3	2318.3	2342.5	2347.2	2361.8	2376.3
40°	2047.3	2037.5	2056.9	2052.0	2056.9	2056.9	2061.7	2076.2	2085.9	2090.8	2095.7
42.5°	1795.6	1800.3	1805.2	1805.2	1805.2	1805.2	1805.2	1824.5	1819.8	1834.3	1839.1
45°	1587.4	1568.1	1577.7	1573.0	1587.4	1573.0	1587.4	1601.9	1592.3	1606.9	1597.0
47.5°	1374.4	1374.4	1374.4	1369.7	1379.4	1374.4	1384.1	1389.0	1389.0	1389.0	1384.1
50°	1205.2	1190.6	1195.4	1195.4	1200.3	1195.4	1205.2	1209.9	1209.9	1200.3	1181.0
52.5°	1040.5	1035.7	1035.7	1045.4	1045.4	1040.5	1040.5	1040.5	1040.5	1026.1	1016.3
55°	905.1	895.4	900.2	900.2	900.2	900.2	905.1	900.2	900.2	885.6	871.2
57.5°	784.0	774.4	774.4	774.4	779.1	774.4	774.4	774.4	769.5	754.9	735.6
60°	667.9	663.0	667.9	667.9	672.7	667.9	667.9	667.9	658.3	643.7	624.3
62.5°	571.1	571.1	571.1	575.8	575.8	571.1	571.1	566.2	561.5	542.0	522.7
65°	488.8	483.9	488.8	488.8	493.6	493.6	488.8	483.9	479.2	459.7	440.4
67.5°	406.6	401.7	406.6	406.6	411.3	406.6	406.6	406.6	392.0	382.4	362.9
70°	329.1	324.3	324.3	324.3	329.1	319.4	324.3	324.3	314.7	300.1	280.6
72.5°	251.7	251.7	251.7	251.7	251.7	251.7	246.8	246.8	237.1	222.6	212.9
75°	184.0	184.0	188.7	188.7	184.0	184.0	184.0	179.1	174.2	164.5	154.9
77.5°	135.6	135.6	135.6	135.6	130.7	130.7	130.7	125.8	121.0	116.1	106.5
80°	96.8	96.8	96.8	91.9	96.8	91.9	91.9	91.9	82.3	77.3	72.6
82.5°	67.7	63.0	63.0	63.0	63.0	63.0	63.0	58.1	58.1	53.3	48.4
85°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	33.9	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	14.6
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°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
2.5°	3987.9	3987.9	3997.6	3983.2	4007.4	3992.8	3987.9	4012.1	3997.6	3992.8	4002.5
5°	3954.1	3959.0	3963.7	3954.1	3978.3	3963.7	3963.7	3987.9	3978.3	3973.4	3987.9
7.5°	3910.6	3915.3	3925.0	3920.2	3939.5	3929.9	3934.8	3959.0	3949.2	3949.2	3963.7
10°	3857.2	3866.9	3876.7	3876.7	3900.7	3891.1	3891.1	3920.2	3910.6	3915.3	3934.8
12.5°	3794.3	3808.8	3823.4	3828.3	3852.5	3838.0	3842.7	3876.7	3871.8	3876.7	3896.0
15°	3726.6	3746.0	3760.4	3760.4	3789.5	3775.0	3789.5	3823.4	3813.8	3833.0	3857.2
17.5°	3649.2	3668.5	3687.8	3692.7	3721.8	3712.0	3731.5	3765.3	3765.3	3775.0	3804.1
20°	3576.6	3600.8	3610.5	3625.0	3654.0	3649.2	3658.9	3697.6	3697.6	3712.0	3741.1
22.5°	3479.8	3504.0	3523.3	3537.8	3562.0	3562.0	3576.6	3610.5	3610.5	3620.1	3649.2
25°	3373.3	3402.3	3416.8	3431.4	3455.6	3450.7	3465.2	3494.3	3499.1	3508.7	3537.8
27.5°	3237.7	3261.9	3281.4	3291.1	3324.9	3305.6	3320.0	3354.0	3349.1	3358.8	3383.0
30°	3068.5	3092.7	3112.0	3112.0	3140.9	3140.9	3155.5	3170.0	3170.0	3179.7	3199.1
32.5°	2869.9	2899.0	2899.0	2913.6	2932.9	2913.6	2932.9	2952.2	2942.5	2957.1	2971.6
35°	2642.4	2657.0	2661.9	2661.9	2676.5	2671.5	2666.6	2681.2	2671.5	2695.7	2710.3
37.5°	2366.7	2386.0	2376.3	2386.0	2381.1	2366.7	2366.7	2390.9	2371.4	2376.3	2390.9
40°	2100.4	2100.4	2095.7	2071.5	2076.2	2061.7	2056.9	2061.7	2042.4	2037.5	2056.9
42.5°	1824.5	1819.8	1805.2	1771.4	1776.1	1751.9	1732.6	1732.6	1723.0	1718.1	1723.0
45°	1577.7	1563.2	1539.0	1500.4	1490.6	1471.3	1432.5	1422.9	1408.3	1408.3	1413.2
47.5°	1350.2	1330.9	1292.2	1248.7	1224.5	1200.3	1161.5	1146.9	1122.7	1113.1	1122.7
50°	1161.5	1127.7	1079.2	1016.3	992.1	963.1	924.4	900.2	876.0	866.3	861.4
52.5°	987.3	938.9	890.5	813.2	793.7	764.8	711.4	687.2	663.0	643.7	643.7
55°	837.2	793.7	726.0	653.4	624.3	595.3	542.0	508.1	483.9	474.3	464.6
57.5°	701.8	653.4	590.4	513.0	483.9	455.0	401.7	367.8	343.6	329.1	319.4
60°	590.4	537.3	474.3	406.6	372.7	343.6	290.5	256.4	232.2	217.9	208.0
62.5°	483.9	440.4	377.5	314.7	285.6	256.4	212.9	179.1	154.9	145.2	130.7
65°	406.6	362.9	304.8	251.7	227.5	198.4	159.8	130.7	111.4	96.8	87.2
67.5°	329.1	295.2	246.8	198.4	174.2	154.9	121.0	96.8	77.3	67.7	63.0
70°	261.3	227.5	188.7	150.0	135.6	116.1	91.9	67.7	58.1	48.4	43.5
72.5°	193.6	169.4	140.3	111.4	96.8	87.2	63.0	53.3	38.8	33.9	29.1
75°	140.3	121.0	101.6	77.3	67.7	63.0	48.4	33.9	29.1	24.2	19.3
77.5°	96.8	87.2	67.7	53.3	48.4	43.5	33.9	24.2	19.3	14.6	14.6
80°	63.0	53.3	43.5	33.9	33.9	29.1	19.3	14.6	14.6	9.6	9.6
82.5°	38.8	33.9	29.1	24.2	19.3	19.3	14.6	9.6	9.6	4.9	4.9
85°	24.2	19.3	14.6	14.6	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°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
2.5°	4002.5	4002.5	4012.1	3997.6	4007.4	4007.4	4017.0	3997.6	4007.4	4012.1	4021.8
5°	3983.2	3987.9	3997.6	3992.8	3997.6	3997.6	4007.4	3983.2	4002.5	4002.5	4017.0
7.5°	3963.7	3963.7	3973.4	3968.6	3978.3	3983.2	3992.8	3973.4	3992.8	3992.8	4007.4
10°	3939.5	3939.5	3954.1	3949.2	3963.7	3968.6	3983.2	3963.7	3983.2	3987.9	4002.5
12.5°	3905.7	3910.6	3925.0	3925.0	3939.5	3949.2	3963.7	3954.1	3978.3	3983.2	4002.5
15°	3866.9	3876.7	3896.0	3891.1	3905.7	3920.2	3939.5	3925.0	3959.0	3968.6	3987.9
17.5°	3818.5	3828.3	3842.7	3842.7	3857.2	3866.9	3891.1	3881.5	3910.6	3915.3	3939.5
20°	3746.0	3760.4	3779.9	3775.0	3789.5	3799.2	3818.5	3808.8	3838.0	3847.6	3871.8
22.5°	3658.9	3668.5	3683.1	3683.1	3697.6	3707.3	3726.6	3712.0	3741.1	3746.0	3765.3
25°	3542.8	3552.4	3562.0	3567.0	3581.3	3586.3	3595.9	3586.3	3610.5	3615.4	3639.4
27.5°	3392.6	3397.5	3412.1	3412.1	3421.7	3426.5	3441.0	3421.7	3455.6	3455.6	3470.1
30°	3213.5	3208.8	3228.1	3218.4	3228.1	3228.1	3242.6	3233.0	3257.2	3247.6	3261.9
32.5°	2976.4	2986.2	2986.2	2976.4	2995.9	2990.9	2990.9	2981.3	2995.9	3000.6	3010.2
35°	2700.7	2715.0	2715.0	2719.9	2724.9	2710.3	2715.0	2686.1	2710.3	2715.0	2719.9
37.5°	2400.5	2386.0	2395.6	2381.1	2405.3	2376.3	2376.3	2357.0	2376.3	2376.3	2381.1
40°	2056.9	2052.0	2061.7	2052.0	2047.3	2042.4	2032.7	2018.2	2037.5	2027.8	2042.4
42.5°	1732.6	1727.7	1727.7	1718.1	1713.3	1713.3	1703.7	1693.8	1689.1	1689.1	1713.3
45°	1398.6	1408.3	1398.6	1393.9	1403.6	1393.9	1398.6	1379.4	1389.0	1379.4	1389.0
47.5°	1118.0	1122.7	1113.1	1103.4	1118.0	1103.4	1103.4	1088.9	1108.4	1108.4	1098.5
50°	866.3	861.4	851.7	861.4	856.7	856.7	856.7	842.1	851.7	837.2	847.0
52.5°	638.8	634.1	634.1	629.2	634.1	629.2	629.2	624.3	624.3	619.5	624.3
55°	464.6	459.7	450.1	450.1	450.1	455.0	450.1	445.3	445.3	440.4	445.3
57.5°	314.7	304.8	304.8	304.8	304.8	300.1	300.1	295.2	300.1	295.2	300.1
60°	203.3	203.3	193.6	193.6	193.6	193.6	193.6	188.7	193.6	193.6	193.6
62.5°	125.8	125.8	121.0	116.1	121.0	116.1	116.1	116.1	121.0	116.1	121.0
65°	82.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
67.5°	58.1	53.3	53.3	53.3	53.3	53.3	53.3	48.4	53.3	53.3	53.3
70°	38.8	38.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
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	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
77.5°	14.6	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: P684548

CATALOG NUMBER: LX6C70D010 EX6C709040 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
2.5°	4007.4	4012.1	4002.5	4007.4	3997.6	4007.4	4012.1	4021.8
5°	3997.6	4002.5	3992.8	4002.5	3992.8	4002.5	4007.4	4017.0
7.5°	3987.9	3997.6	3987.9	3997.6	3987.9	3997.6	4002.5	4012.1
10°	3987.9	4002.5	3992.8	4007.4	3992.8	4002.5	4012.1	4017.0
12.5°	3987.9	4002.5	3997.6	4007.4	4002.5	4012.1	4021.8	4031.4
15°	3978.3	3992.8	3983.2	3997.6	3992.8	3997.6	4017.0	4017.0
17.5°	3925.0	3939.5	3939.5	3949.2	3949.2	3963.7	3973.4	3983.2
20°	3857.2	3871.8	3866.9	3881.5	3881.5	3896.0	3905.7	3915.3
22.5°	3755.7	3775.0	3770.1	3784.6	3779.9	3789.5	3808.8	3804.1
25°	3625.0	3649.2	3644.3	3654.0	3649.2	3649.2	3658.9	3663.6
27.5°	3465.2	3479.8	3474.9	3484.7	3474.9	3484.7	3494.3	3499.1
30°	3257.2	3266.8	3261.9	3266.8	3261.9	3271.6	3276.5	3286.1
32.5°	3005.5	3020.1	3005.5	3015.1	3010.2	3010.2	3029.7	3020.1
35°	2705.4	2710.3	2715.0	2715.0	2705.4	2710.3	2719.9	2719.9
37.5°	2371.4	2395.6	2366.7	2381.1	2376.3	2376.3	2376.3	2390.9
40°	2023.1	2027.8	2018.2	2018.2	2018.2	2013.3	2032.7	2027.8
42.5°	1693.8	1698.8	1693.8	1679.5	1684.2	1684.2	1698.8	1679.5
45°	1374.4	1384.1	1379.4	1379.4	1369.7	1369.7	1374.4	1364.8
47.5°	1088.9	1098.5	1084.2	1088.9	1079.2	1088.9	1084.2	1093.8
50°	827.5	837.2	832.5	837.2	837.2	827.5	842.1	822.8
52.5°	619.5	624.3	619.5	614.6	609.9	609.9	619.5	614.6
55°	440.4	435.5	435.5	435.5	440.4	440.4	435.5	430.8
57.5°	295.2	295.2	290.5	290.5	295.2	285.6	290.5	285.6
60°	188.7	188.7	188.7	188.7	184.0	188.7	188.7	188.7
62.5°	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1
65°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
67.5°	48.4	53.3	53.3	53.3	48.4	48.4	48.4	48.4
70°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
72.5°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
75°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
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)