

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: P684549

Luminaire Tested: **LX6C70D010 EX6C709050 6LBLWWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C70D010 EX6C709050 6LBLWWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

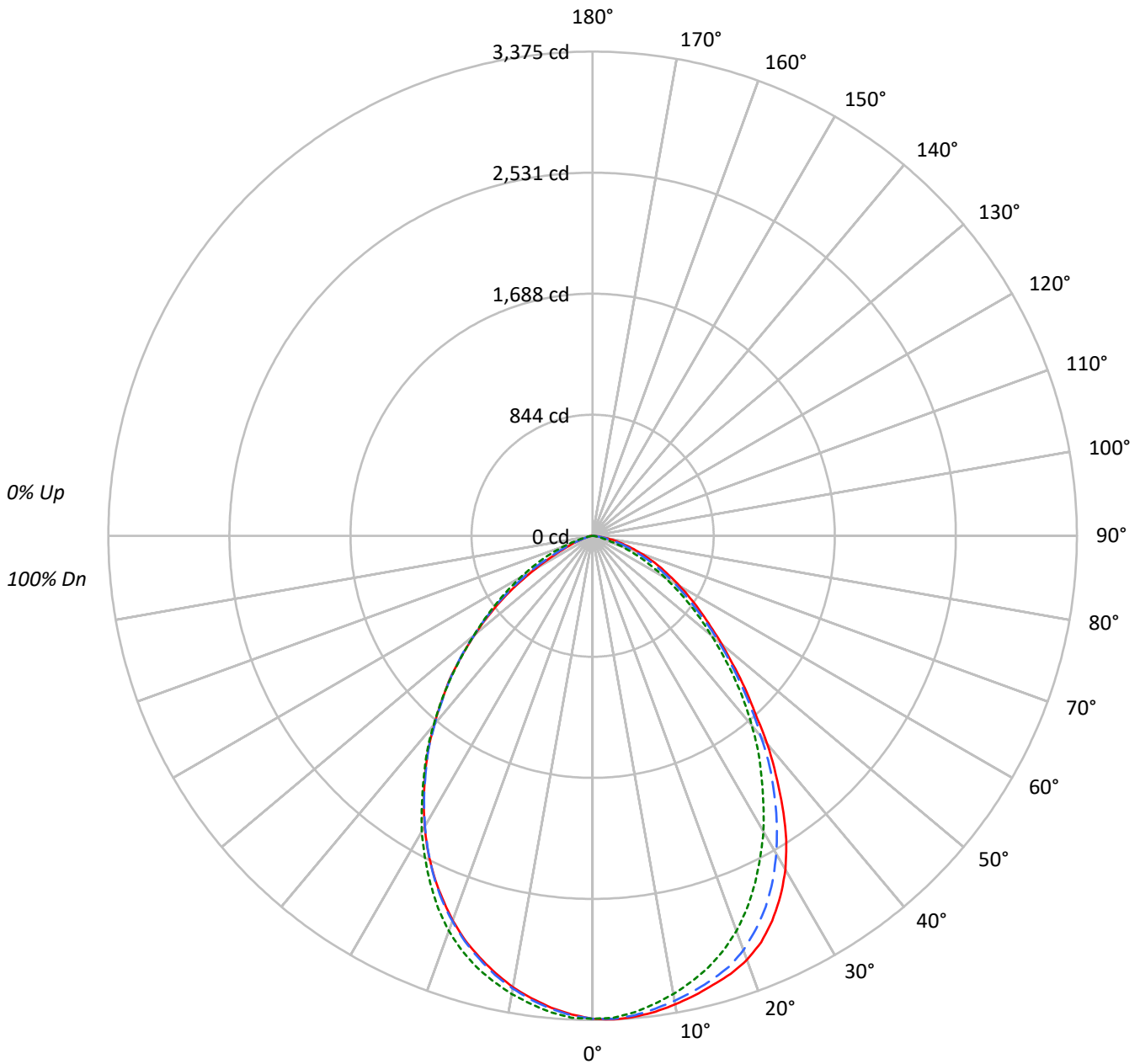
Lumens per Lamp: N/A
Luminaire Lumens: 6124.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39			39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	184563	184563	184563
5°	185208	183529	181719
10°	184644	180547	177903
15°	183945	176817	172708
20°	183538	170990	166439
25°	179073	161822	158259
30°	170134	150726	148213
35°	154425	137232	136322
40°	135490	123503	122859
45°	116159	107918	108794
50°	99988	91980	91494
55°	87395	77656	72905
60°	76803	63657	49755
65°	67232	49318	29951
70°	57317	33195	17599
75°	46259	17262	9595
80°	32170	6787	5367
85°	12831	2139	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.5	5.2
10°-20°	880.9	14.4
20°-30°	1253.6	20.5
30°-40°	1319.4	21.5
40°-50°	1099.6	18.0
50°-60°	742.9	12.1
60°-70°	376.6	6.2
70°-80°	121.6	2.0
80°-90°	14.0	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°	2450.0	40.0
0°-40°	3769.4	61.6
0°-60°	5611.8	91.6
0°-90°	6124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6124.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3367	3367	3367	3367	3367	
5°	3366	3355	3335	3310	3302	320
15°	3241	3206	3116	3053	3043	916
25°	2960	2853	2675	2620	2616	1357
35°	2308	2208	2051	2030	2037	1436
45°	1498	1460	1392	1398	1403	1160
55°	914	870	812	788	763	823
65°	518	467	380	275	231	516
75°	218	171	82	44	45	236
85°	20	11	3	4	4	35
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°	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7
2.5°	3374.7	3374.7	3374.7	3374.7	3374.7	3374.7	3373.5	3373.5	3371.3	3371.3	3370.1
5°	3365.6	3366.7	3366.7	3365.6	3365.6	3363.3	3363.3	3362.2	3358.8	3356.6	3355.4
7.5°	3346.4	3346.4	3345.2	3344.1	3343.0	3339.6	3338.5	3335.1	3332.8	3330.5	3326.0
10°	3317.0	3317.0	3315.8	3313.6	3312.4	3310.2	3310.2	3305.6	3301.1	3295.4	3292.1
12.5°	3281.9	3283.0	3280.7	3279.6	3276.2	3275.1	3272.8	3267.2	3263.8	3257.0	3251.3
15°	3241.1	3243.4	3243.4	3238.9	3235.5	3234.3	3230.9	3227.5	3219.6	3212.8	3206.0
17.5°	3201.5	3203.8	3201.5	3198.1	3194.7	3190.2	3187.9	3181.1	3171.0	3161.9	3151.7
20°	3146.1	3149.5	3144.9	3139.3	3132.5	3131.4	3128.0	3116.6	3101.9	3088.4	3073.6
22.5°	3068.0	3065.7	3062.3	3060.1	3048.7	3042.0	3037.4	3022.7	3006.9	2988.8	2970.7
25°	2960.5	2965.0	2958.2	2948.0	2942.4	2935.6	2924.3	2908.4	2893.7	2874.5	2853.0
27.5°	2833.7	2833.7	2824.7	2821.3	2808.8	2799.8	2794.1	2778.3	2759.0	2739.8	2716.0
30°	2687.7	2680.9	2680.9	2665.1	2654.9	2651.5	2645.9	2619.8	2602.9	2582.5	2558.7
32.5°	2511.2	2510.1	2505.5	2495.4	2481.8	2470.5	2470.5	2452.3	2429.7	2404.8	2390.1
35°	2307.5	2308.6	2306.4	2295.0	2295.0	2281.5	2279.2	2263.4	2245.3	2226.0	2207.9
37.5°	2097.0	2101.5	2097.0	2091.3	2087.9	2086.8	2076.6	2065.3	2051.7	2040.4	2026.8
40°	1893.3	1886.5	1888.8	1877.5	1878.6	1876.3	1871.8	1857.1	1849.2	1837.8	1823.1
42.5°	1673.8	1680.5	1682.8	1676.0	1673.8	1669.2	1673.8	1668.1	1659.0	1653.4	1639.8
45°	1498.3	1491.6	1494.9	1492.7	1493.8	1484.8	1481.4	1479.1	1475.7	1465.5	1459.9
47.5°	1324.1	1325.2	1324.1	1319.5	1317.3	1317.3	1312.7	1306.0	1306.0	1299.2	1294.6
50°	1172.4	1172.4	1174.7	1169.0	1166.8	1162.2	1163.4	1156.6	1152.0	1146.4	1143.0
52.5°	1033.2	1034.4	1029.8	1031.0	1028.7	1028.7	1024.2	1019.6	1015.1	1004.9	1002.7
55°	914.4	915.5	909.9	912.1	905.3	901.9	899.7	892.9	892.9	882.7	870.3
57.5°	803.5	802.4	801.2	797.8	793.3	789.9	786.5	778.6	775.2	768.4	758.2
60°	700.5	699.4	697.1	696.0	692.6	684.7	684.7	679.0	667.7	660.9	650.7
62.5°	603.2	603.2	602.1	598.7	595.3	591.9	589.6	585.1	573.8	565.8	556.8
65°	518.3	517.2	513.8	508.1	505.9	505.9	497.9	494.5	485.5	477.6	467.4
67.5°	436.8	432.3	430.0	431.2	424.4	424.4	417.6	411.9	404.0	390.4	382.5
70°	357.6	355.3	353.1	350.8	349.7	345.2	341.8	335.0	327.1	316.9	304.4
72.5°	286.3	286.3	282.9	280.7	277.3	272.7	270.5	264.8	255.8	244.4	235.4
75°	218.4	218.4	218.4	213.9	211.6	209.4	202.6	199.2	189.0	182.2	170.9
77.5°	160.7	158.4	155.0	153.9	151.6	149.4	146.0	140.3	131.3	123.4	116.6
80°	101.9	105.2	101.9	101.9	96.2	93.9	92.8	86.0	82.6	75.8	70.2
82.5°	56.6	57.7	55.5	54.3	50.9	49.8	49.8	45.3	43.0	38.5	35.1
85°	20.4	21.5	20.4	20.4	18.1	19.2	18.1	17.0	14.7	12.4	11.3
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7
2.5°	3370.1	3367.9	3367.9	3366.7	3365.6	3365.6	3365.6	3364.5	3362.2	3362.2	3361.1
5°	3353.2	3350.9	3347.5	3345.2	3344.1	3343.0	3341.8	3340.7	3336.2	3335.1	3331.7
7.5°	3322.6	3320.3	3314.7	3312.4	3309.0	3307.9	3303.4	3301.1	3296.6	3292.1	3289.8
10°	3286.4	3280.7	3276.2	3270.6	3268.3	3264.9	3259.2	3252.4	3249.1	3243.4	3238.9
12.5°	3245.7	3238.9	3229.8	3223.0	3220.8	3215.1	3206.0	3200.4	3192.5	3183.4	3175.5
15°	3194.7	3186.8	3178.9	3166.4	3163.0	3156.3	3147.2	3135.9	3124.6	3115.5	3106.5
17.5°	3139.3	3126.8	3114.4	3100.8	3090.6	3087.2	3072.5	3056.7	3046.5	3030.6	3020.5
20°	3061.2	3044.2	3023.8	3010.3	3001.2	2991.0	2974.1	2957.1	2944.6	2931.0	2916.3
22.5°	2953.7	2937.8	2914.1	2893.7	2886.9	2872.2	2857.5	2841.6	2825.8	2811.1	2793.0
25°	2826.9	2810.0	2786.2	2765.8	2754.5	2747.7	2719.4	2703.6	2687.7	2675.3	2662.8
27.5°	2696.8	2666.2	2650.4	2618.7	2608.5	2606.3	2580.2	2563.3	2546.3	2529.3	2513.5
30°	2536.1	2512.3	2488.6	2465.9	2452.3	2444.4	2425.2	2403.7	2392.4	2381.1	2365.2
32.5°	2369.7	2348.2	2318.8	2297.3	2287.1	2275.8	2258.8	2244.1	2227.1	2214.7	2211.3
35°	2192.1	2168.3	2143.4	2127.6	2125.3	2111.7	2094.7	2082.3	2069.8	2050.6	2047.2
37.5°	2001.9	1988.4	1971.4	1948.8	1938.6	1938.6	1921.6	1912.5	1896.7	1895.6	1886.5
40°	1815.2	1809.6	1783.5	1776.7	1774.5	1758.6	1754.1	1738.3	1726.9	1725.8	1712.2
42.5°	1630.7	1616.0	1611.5	1600.2	1590.0	1587.7	1577.6	1570.8	1566.2	1559.5	1552.7
45°	1447.4	1444.0	1432.7	1424.8	1421.4	1416.9	1413.5	1399.9	1397.6	1392.0	1388.6
47.5°	1289.0	1279.9	1269.7	1260.7	1259.6	1252.8	1244.8	1244.8	1232.4	1231.3	1229.0
50°	1131.7	1124.9	1119.2	1106.8	1109.0	1100.0	1098.9	1088.7	1083.0	1078.5	1084.1
52.5°	993.6	980.0	977.8	967.6	964.2	965.3	952.9	949.5	947.2	942.7	940.4
55°	862.3	855.5	846.5	839.7	834.0	828.4	823.9	823.9	811.4	812.5	806.9
57.5°	746.9	741.2	729.9	719.7	717.5	710.7	705.0	699.4	698.2	690.3	684.7
60°	643.9	633.7	619.0	614.5	607.7	602.1	596.4	589.6	586.2	580.6	570.4
62.5°	547.7	530.8	525.1	516.0	508.1	504.7	495.7	487.8	482.1	474.2	466.3
65°	456.1	443.6	433.4	423.2	422.1	413.1	405.1	398.4	387.0	380.2	365.5
67.5°	372.3	361.0	349.7	339.5	331.6	329.3	316.9	308.9	301.0	287.4	275.0
70°	295.4	284.1	275.0	262.5	259.2	250.1	241.0	233.1	219.5	207.1	196.9
72.5°	225.2	212.8	202.6	193.5	187.9	179.9	170.9	161.8	148.2	135.8	126.7
75°	160.7	151.6	141.5	132.4	127.9	123.4	113.2	103.0	93.9	81.5	73.6
77.5°	108.6	99.6	90.5	82.6	77.0	73.6	66.8	58.8	50.9	44.1	38.5
80°	63.4	57.7	50.9	44.1	43.0	39.6	34.0	29.4	24.9	21.5	17.0
82.5°	30.6	27.2	22.6	19.2	17.0	15.8	13.6	11.3	9.1	7.9	7.9
85°	9.1	7.9	6.8	5.7	4.5	4.5	3.4	3.4	3.4	3.4	3.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7
2.5°	3357.7	3356.6	3355.4	3354.3	3352.0	3352.0	3348.6	3346.4	3346.4	3344.1	3343.0
5°	3328.3	3324.9	3323.7	3321.5	3319.2	3318.1	3313.6	3312.4	3310.2	3307.9	3307.9
7.5°	3286.4	3281.9	3277.3	3275.1	3273.9	3270.6	3268.3	3267.2	3263.8	3261.5	3257.0
10°	3230.9	3227.5	3221.9	3219.6	3217.4	3215.1	3209.4	3206.0	3204.9	3202.7	3200.4
12.5°	3166.4	3161.9	3156.3	3151.7	3149.5	3146.1	3140.4	3137.0	3137.0	3132.5	3132.5
15°	3097.4	3090.6	3080.4	3075.9	3074.8	3068.0	3063.5	3058.9	3053.3	3051.0	3051.0
17.5°	3009.1	2997.8	2988.8	2988.8	2984.2	2977.4	2970.7	2967.3	2963.9	2959.3	2957.1
20°	2905.0	2897.1	2886.9	2886.9	2876.7	2874.5	2867.7	2866.5	2858.6	2859.8	2856.4
22.5°	2779.4	2774.9	2769.2	2764.7	2759.0	2752.2	2748.8	2750.0	2746.6	2745.5	2744.3
25°	2652.7	2640.2	2633.4	2631.2	2628.9	2623.2	2621.0	2619.8	2619.8	2616.4	2617.6
27.5°	2506.7	2497.6	2488.6	2492.0	2487.4	2484.0	2481.8	2478.4	2480.6	2479.5	2480.6
30°	2357.3	2346.0	2340.3	2342.6	2341.4	2332.4	2336.9	2335.8	2336.9	2336.9	2339.2
32.5°	2200.0	2192.1	2190.9	2192.1	2181.9	2183.0	2178.5	2185.3	2186.4	2193.2	2187.5
35°	2040.4	2035.9	2028.0	2026.8	2028.0	2026.8	2026.8	2031.4	2030.2	2037.0	2034.8
37.5°	1876.3	1874.1	1866.1	1868.4	1863.9	1871.8	1874.1	1871.8	1879.7	1877.5	1876.3
40°	1715.6	1712.2	1707.7	1716.8	1711.1	1706.6	1714.5	1707.7	1710.0	1716.8	1716.8
42.5°	1552.7	1547.0	1547.0	1547.0	1545.9	1545.9	1549.3	1552.7	1550.4	1551.5	1560.6
45°	1388.6	1387.4	1384.0	1386.3	1385.2	1390.8	1390.8	1393.1	1397.6	1402.2	1399.9
47.5°	1230.1	1227.9	1231.3	1229.0	1230.1	1226.7	1229.0	1235.8	1241.5	1233.5	1241.5
50°	1081.9	1077.4	1076.2	1079.6	1078.5	1077.4	1079.6	1079.6	1077.4	1077.4	1085.3
52.5°	940.4	935.9	932.5	938.2	934.8	935.9	931.4	931.4	933.6	931.4	928.0
55°	808.0	804.6	800.1	802.4	796.7	795.6	791.0	791.0	787.6	785.4	778.6
57.5°	681.3	679.0	668.8	667.7	668.8	660.9	653.0	649.6	640.5	638.3	637.1
60°	569.2	556.8	551.1	544.3	539.8	536.4	527.4	521.7	508.1	500.2	499.1
62.5°	452.7	447.0	440.2	430.0	427.8	416.5	407.4	392.7	385.9	375.7	365.5
65°	358.7	344.0	333.8	328.2	319.1	308.9	298.8	282.9	275.0	262.5	252.4
67.5°	262.5	250.1	236.5	232.0	224.1	211.6	201.4	187.9	181.1	169.8	166.4
70°	179.9	168.6	158.4	151.6	146.0	133.5	123.4	118.8	112.0	109.8	109.8
72.5°	115.4	105.2	93.9	90.5	86.0	79.2	72.4	70.2	72.4	71.3	71.3
75°	64.5	58.8	50.9	47.5	47.5	45.3	44.1	44.1	44.1	44.1	44.1
77.5°	32.8	29.4	27.2	26.0	26.0	26.0	27.2	27.2	27.2	28.3	27.2
80°	15.8	14.7	14.7	14.7	15.8	15.8	15.8	15.8	15.8	17.0	15.8
82.5°	7.9	7.9	7.9	7.9	7.9	7.9	9.1	9.1	9.1	9.1	9.1
85°	3.4	3.4	3.4	3.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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: P684549

CATALOG NUMBER: LX6C70D010 EX6C709050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7
2.5°	3341.8	3339.6	3339.6	3338.5	3338.5	3338.5	3338.5	3339.6
5°	3305.6	3304.5	3304.5	3302.2	3302.2	3302.2	3302.2	3302.2
7.5°	3257.0	3254.7	3255.8	3253.6	3253.6	3254.7	3253.6	3252.4
10°	3197.0	3195.9	3197.0	3197.0	3194.7	3193.6	3194.7	3195.9
12.5°	3129.1	3128.0	3125.7	3126.8	3126.8	3125.7	3124.6	3122.3
15°	3049.9	3048.7	3047.6	3046.5	3045.3	3046.5	3045.3	3043.1
17.5°	2957.1	2957.1	2955.9	2954.8	2953.7	2951.4	2952.6	2955.9
20°	2857.5	2856.4	2854.1	2855.2	2850.7	2848.4	2849.6	2853.0
22.5°	2743.2	2739.8	2742.1	2738.7	2738.7	2739.8	2738.7	2736.4
25°	2618.7	2614.2	2616.4	2617.6	2617.6	2616.4	2615.3	2616.4
27.5°	2480.6	2484.0	2484.0	2481.8	2485.2	2480.6	2482.9	2484.0
30°	2339.2	2335.8	2334.7	2339.2	2346.0	2340.3	2340.3	2341.4
32.5°	2193.2	2188.7	2188.7	2190.9	2189.8	2189.8	2194.3	2188.7
35°	2037.0	2039.3	2030.2	2035.9	2038.2	2035.9	2037.0	2037.0
37.5°	1879.7	1877.5	1877.5	1877.5	1880.9	1880.9	1883.1	1882.0
40°	1724.7	1720.2	1719.0	1721.3	1716.8	1720.2	1720.2	1716.8
42.5°	1557.2	1558.3	1564.0	1558.3	1559.5	1558.3	1556.1	1554.9
45°	1402.2	1405.5	1403.3	1402.2	1403.3	1398.8	1399.9	1403.3
47.5°	1238.1	1244.8	1238.1	1242.6	1241.5	1239.2	1236.9	1232.4
50°	1084.1	1086.4	1085.3	1084.1	1083.0	1081.9	1076.2	1072.8
52.5°	926.8	926.8	926.8	926.8	915.5	921.2	918.9	912.1
55°	772.9	776.3	771.8	771.8	763.9	763.9	761.6	762.8
57.5°	624.7	621.3	617.9	617.9	610.0	606.6	603.2	598.7
60°	486.6	483.2	478.7	473.0	465.1	465.1	462.9	453.8
62.5°	356.5	350.8	347.4	342.9	336.1	331.6	328.2	330.5
65°	244.4	238.8	234.3	234.3	234.3	232.0	230.9	230.9
67.5°	160.7	164.1	161.8	164.1	164.1	161.8	160.7	163.0
70°	110.9	110.9	109.8	109.8	109.8	109.8	108.6	109.8
72.5°	71.3	71.3	71.3	72.4	71.3	71.3	72.4	72.4
75°	45.3	45.3	45.3	46.4	45.3	45.3	46.4	45.3
77.5°	27.2	28.3	28.3	28.3	28.3	27.2	28.3	28.3
80°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
82.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)