

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: P684528

Luminaire Tested: **LX6C70D010 EX6C709030 6LBLWWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684528  
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 EX6C709030 6LBLWWH  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

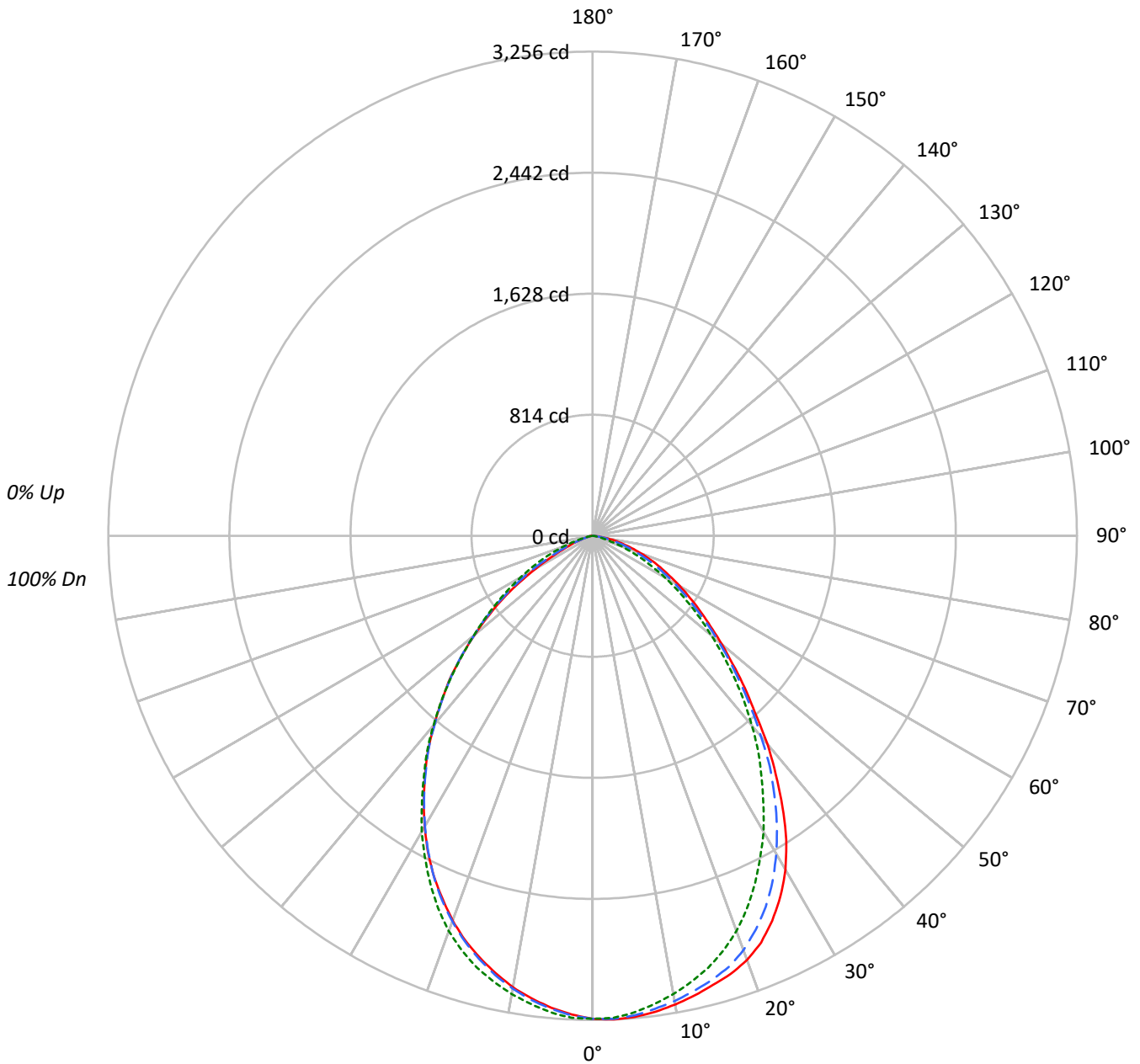
Lumens per Lamp: N/A  
Luminaire Lumens: 5909.0 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	178083	178083	178083
5°	178709	177085	175341
10°	178159	174206	171657
15°	177487	170608	166641
20°	177092	164987	160594
25°	172782	156142	152706
30°	164164	145434	143009
35°	149004	132414	131537
40°	130731	119166	118544
45°	112081	104127	104972
50°	96483	88748	88287
55°	84327	74932	70344
60°	74106	61421	48012
65°	64871	47593	28901
70°	55314	32025	16974
75°	44628	16648	9256
80°	31033	6535	5177
85°	12391	2076	2768



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.4	5.2
10°-20°	850.0	14.4
20°-30°	1209.6	20.5
30°-40°	1273.1	21.5
40°-50°	1061.0	18.0
50°-60°	716.8	12.1
60°-70°	363.4	6.2
70°-80°	117.3	2.0
80°-90°	13.5	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°	2363.9	40.0
0°-40°	3637.0	61.6
0°-60°	5414.8	91.6
0°-90°	5909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5909.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3248	3248	3248	3248	3248	
5°	3248	3238	3218	3194	3186	308
15°	3127	3094	3006	2946	2936	884
25°	2856	2753	2581	2528	2525	1309
35°	2226	2130	1979	1959	1966	1386
45°	1446	1409	1343	1349	1354	1119
55°	882	840	784	760	736	794
65°	500	451	367	265	223	498
75°	211	165	79	43	44	228
85°	20	11	3	4	4	34
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°	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5
2.5°	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2	3255.1	3255.1	3252.9	3252.9	3251.8
5°	3247.5	3248.5	3248.5	3247.5	3247.5	3245.3	3245.3	3244.2	3240.9	3238.7	3237.6
7.5°	3228.9	3228.9	3227.8	3226.7	3225.6	3222.3	3221.2	3218.0	3215.8	3213.6	3209.2
10°	3200.5	3200.5	3199.4	3197.2	3196.1	3193.9	3193.9	3189.6	3185.2	3179.8	3176.5
12.5°	3166.6	3167.7	3165.6	3164.5	3161.2	3160.1	3157.9	3152.5	3149.2	3142.6	3137.2
15°	3127.3	3129.5	3129.5	3125.2	3121.9	3120.8	3117.5	3114.2	3106.6	3100.0	3093.5
17.5°	3089.1	3091.3	3089.1	3085.8	3082.6	3078.2	3076.0	3069.5	3059.6	3050.9	3041.1
20°	3035.6	3038.9	3034.5	3029.1	3022.5	3021.4	3018.1	3007.2	2993.0	2979.9	2965.7
22.5°	2960.3	2958.1	2954.8	2952.6	2941.7	2935.2	2930.8	2916.6	2901.3	2883.8	2866.4
25°	2856.5	2860.9	2854.4	2844.5	2839.1	2832.5	2821.6	2806.3	2792.1	2773.5	2752.8
27.5°	2734.2	2734.2	2725.5	2722.2	2710.2	2701.5	2696.0	2680.7	2662.2	2643.6	2620.7
30°	2593.4	2586.8	2586.8	2571.5	2561.7	2558.4	2553.0	2527.9	2511.5	2491.8	2468.9
32.5°	2423.0	2421.9	2417.6	2407.7	2394.6	2383.7	2383.7	2366.3	2344.4	2320.4	2306.2
35°	2226.5	2227.6	2225.4	2214.5	2214.5	2201.4	2199.2	2183.9	2166.4	2147.9	2130.4
37.5°	2023.4	2027.7	2023.4	2017.9	2014.6	2013.6	2003.7	1992.8	1979.7	1968.8	1955.7
40°	1826.8	1820.3	1822.5	1811.5	1812.6	1810.5	1806.1	1791.9	1784.2	1773.3	1759.1
42.5°	1615.0	1621.5	1623.7	1617.2	1615.0	1610.6	1615.0	1609.5	1600.8	1595.3	1582.2
45°	1445.7	1439.2	1442.5	1440.3	1441.4	1432.6	1429.4	1427.2	1423.9	1414.1	1408.6
47.5°	1277.6	1278.7	1277.6	1273.2	1271.0	1271.0	1266.7	1260.1	1260.1	1253.6	1249.2
50°	1131.3	1131.3	1133.4	1128.0	1125.8	1121.4	1122.5	1116.0	1111.6	1106.1	1102.9
52.5°	996.9	998.0	993.7	994.8	992.6	992.6	988.2	983.8	979.5	969.6	967.5
55°	882.3	883.4	877.9	880.1	873.6	870.3	868.1	861.5	861.5	851.7	839.7
57.5°	775.3	774.2	773.1	769.8	765.5	762.2	758.9	751.3	748.0	741.4	731.6
60°	675.9	674.8	672.6	671.5	668.3	660.6	660.6	655.2	644.2	637.7	627.9
62.5°	582.0	582.0	580.9	577.6	574.4	571.1	568.9	564.5	553.6	546.0	537.2
65°	500.1	499.0	495.7	490.3	488.1	488.1	480.5	477.2	468.4	460.8	451.0
67.5°	421.5	417.1	414.9	416.0	409.5	409.5	402.9	397.5	389.8	376.7	369.1
70°	345.1	342.9	340.7	338.5	337.4	333.0	329.8	323.2	315.6	305.7	293.7
72.5°	276.3	276.3	273.0	270.8	267.5	263.2	261.0	255.5	246.8	235.9	227.1
75°	210.7	210.7	210.7	206.4	204.2	202.0	195.5	192.2	182.4	175.8	164.9
77.5°	155.1	152.9	149.6	148.5	146.3	144.1	140.9	135.4	126.7	119.0	112.5
80°	98.3	101.6	98.3	98.3	92.8	90.6	89.5	83.0	79.7	73.2	67.7
82.5°	54.6	55.7	53.5	52.4	49.1	48.0	48.0	43.7	41.5	37.1	33.9
85°	19.7	20.7	19.7	19.7	17.5	18.6	17.5	16.4	14.2	12.0	10.9
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°	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5
2.5°	3251.8	3249.6	3249.6	3248.5	3247.5	3247.5	3247.5	3246.4	3244.2	3244.2	3243.1
5°	3235.4	3233.3	3230.0	3227.8	3226.7	3225.6	3224.5	3223.4	3219.1	3218.0	3214.7
7.5°	3206.0	3203.8	3198.3	3196.1	3192.9	3191.8	3187.4	3185.2	3180.8	3176.5	3174.3
10°	3171.0	3165.6	3161.2	3155.7	3153.5	3150.3	3144.8	3138.3	3135.0	3129.5	3125.2
12.5°	3131.7	3125.2	3116.4	3109.9	3107.7	3102.2	3093.5	3088.0	3080.4	3071.7	3064.0
15°	3082.6	3074.9	3067.3	3055.3	3052.0	3045.4	3036.7	3025.8	3014.9	3006.1	2997.4
17.5°	3029.1	3017.1	3005.0	2991.9	2982.1	2978.8	2964.6	2949.4	2939.5	2924.2	2914.4
20°	2953.7	2937.3	2917.7	2904.6	2895.8	2886.0	2869.6	2853.3	2841.2	2828.1	2814.0
22.5°	2850.0	2834.7	2811.8	2792.1	2785.6	2771.4	2757.2	2741.9	2726.6	2712.4	2694.9
25°	2727.7	2711.3	2688.4	2668.7	2657.8	2651.3	2624.0	2608.7	2593.4	2581.4	2569.4
27.5°	2602.1	2572.6	2557.3	2526.8	2516.9	2514.8	2489.6	2473.3	2456.9	2440.5	2425.2
30°	2447.1	2424.1	2401.2	2379.4	2366.3	2358.6	2340.0	2319.3	2308.4	2297.5	2282.2
32.5°	2286.5	2265.8	2237.4	2216.7	2206.8	2195.9	2179.5	2165.3	2149.0	2136.9	2133.7
35°	2115.1	2092.2	2068.1	2052.9	2050.7	2037.6	2021.2	2009.2	1997.2	1978.6	1975.3
37.5°	1931.7	1918.6	1902.2	1880.3	1870.5	1870.5	1854.1	1845.4	1830.1	1829.0	1820.3
40°	1751.5	1746.0	1720.9	1714.4	1712.2	1696.9	1692.5	1677.2	1666.3	1665.2	1652.1
42.5°	1573.5	1559.3	1554.9	1544.0	1534.2	1532.0	1522.2	1515.6	1511.3	1504.7	1498.2
45°	1396.6	1393.3	1382.4	1374.8	1371.5	1367.1	1363.8	1350.7	1348.6	1343.1	1339.8
47.5°	1243.7	1235.0	1225.2	1216.4	1215.3	1208.8	1201.1	1201.1	1189.1	1188.0	1185.9
50°	1091.9	1085.4	1079.9	1067.9	1070.1	1061.4	1060.3	1050.5	1045.0	1040.6	1046.1
52.5°	958.7	945.6	943.4	933.6	930.3	931.4	919.4	916.1	914.0	909.6	907.4
55°	832.1	825.5	816.8	810.2	804.8	799.3	794.9	794.9	782.9	784.0	778.6
57.5°	720.7	715.2	704.3	694.5	692.3	685.7	680.3	674.8	673.7	666.1	660.6
60°	621.3	611.5	597.3	592.9	586.4	580.9	575.5	568.9	565.6	560.2	550.3
62.5°	528.5	512.1	506.7	497.9	490.3	487.0	478.3	470.6	465.2	457.5	449.9
65°	440.1	428.0	418.2	408.4	407.3	398.6	390.9	384.4	373.4	366.9	352.7
67.5°	359.3	348.3	337.4	327.6	319.9	317.8	305.7	298.1	290.5	277.4	265.3
70°	285.0	274.1	265.3	253.3	250.1	241.3	232.6	224.9	211.8	199.8	190.0
72.5°	217.3	205.3	195.5	186.7	181.3	173.6	164.9	156.1	143.0	131.0	122.3
75°	155.1	146.3	136.5	127.8	123.4	119.0	109.2	99.4	90.6	78.6	71.0
77.5°	104.8	96.1	87.4	79.7	74.3	71.0	64.4	56.8	49.1	42.6	37.1
80°	61.1	55.7	49.1	42.6	41.5	38.2	32.8	28.4	24.0	20.7	16.4
82.5°	29.5	26.2	21.8	18.6	16.4	15.3	13.1	10.9	8.7	7.6	7.6
85°	8.7	7.6	6.6	5.5	4.4	4.4	3.3	3.3	3.3	3.3	3.3
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5
2.5°	3239.8	3238.7	3237.6	3236.5	3234.4	3234.4	3231.1	3228.9	3228.9	3226.7	3225.6
5°	3211.4	3208.1	3207.1	3204.9	3202.7	3201.6	3197.2	3196.1	3193.9	3191.8	3191.8
7.5°	3171.0	3166.6	3162.3	3160.1	3159.0	3155.7	3153.5	3152.5	3149.2	3147.0	3142.6
10°	3117.5	3114.2	3108.8	3106.6	3104.4	3102.2	3096.8	3093.5	3092.4	3090.2	3088.0
12.5°	3055.3	3050.9	3045.4	3041.1	3038.9	3035.6	3030.2	3026.9	3026.9	3022.5	3022.5
15°	2988.7	2982.1	2972.3	2967.9	2966.8	2960.3	2955.9	2951.5	2946.1	2943.9	2943.9
17.5°	2903.5	2892.6	2883.8	2883.8	2879.5	2872.9	2866.4	2863.1	2859.8	2855.4	2853.3
20°	2803.0	2795.4	2785.6	2785.6	2775.7	2773.5	2767.0	2765.9	2758.3	2759.4	2756.1
22.5°	2681.8	2677.5	2672.0	2667.6	2662.2	2655.6	2652.3	2653.4	2650.2	2649.1	2648.0
25°	2559.5	2547.5	2541.0	2538.8	2536.6	2531.1	2529.0	2527.9	2527.9	2524.6	2525.7
27.5°	2418.7	2409.9	2401.2	2404.5	2400.1	2396.8	2394.6	2391.4	2393.6	2392.5	2393.6
30°	2274.5	2263.6	2258.1	2260.3	2259.2	2250.5	2254.9	2253.8	2254.9	2254.9	2257.1
32.5°	2122.7	2115.1	2114.0	2115.1	2105.3	2106.4	2102.0	2108.6	2109.6	2116.2	2110.7
35°	1968.8	1964.4	1956.8	1955.7	1956.8	1955.7	1955.7	1960.0	1959.0	1965.5	1963.3
37.5°	1810.5	1808.3	1800.6	1802.8	1798.4	1806.1	1808.3	1806.1	1813.7	1811.5	1810.5
40°	1655.4	1652.1	1647.7	1656.5	1651.0	1646.7	1654.3	1647.7	1649.9	1656.5	1656.5
42.5°	1498.2	1492.7	1492.7	1492.7	1491.6	1491.6	1494.9	1498.2	1496.0	1497.1	1505.8
45°	1339.8	1338.7	1335.5	1337.6	1336.5	1342.0	1342.0	1344.2	1348.6	1352.9	1350.7
47.5°	1186.9	1184.8	1188.0	1185.9	1186.9	1183.7	1185.9	1192.4	1197.9	1190.2	1197.9
50°	1043.9	1039.5	1038.4	1041.7	1040.6	1039.5	1041.7	1041.7	1039.5	1039.5	1047.2
52.5°	907.4	903.0	899.8	905.2	901.9	903.0	898.7	898.7	900.9	898.7	895.4
55°	779.7	776.4	772.0	774.2	768.7	767.6	763.3	763.3	760.0	757.8	751.3
57.5°	657.4	655.2	645.3	644.2	645.3	637.7	630.1	626.8	618.0	615.9	614.8
60°	549.2	537.2	531.8	525.2	520.9	517.6	508.8	503.4	490.3	482.6	481.5
62.5°	436.8	431.3	424.8	414.9	412.8	401.8	393.1	378.9	372.4	362.5	352.7
65°	346.1	332.0	322.1	316.7	307.9	298.1	288.3	273.0	265.3	253.3	243.5
67.5°	253.3	241.3	228.2	223.8	216.2	204.2	194.4	181.3	174.7	163.8	160.5
70°	173.6	162.7	152.9	146.3	140.9	128.8	119.0	114.7	108.1	105.9	105.9
72.5°	111.4	101.6	90.6	87.4	83.0	76.4	69.9	67.7	69.9	68.8	68.8
75°	62.2	56.8	49.1	45.9	45.9	43.7	42.6	42.6	42.6	42.6	42.6
77.5°	31.7	28.4	26.2	25.1	25.1	25.1	26.2	26.2	26.2	27.3	26.2
80°	15.3	14.2	14.2	14.2	15.3	15.3	15.3	15.3	15.3	16.4	15.3
82.5°	7.6	7.6	7.6	7.6	7.6	7.6	8.7	8.7	8.7	8.7	8.7
85°	3.3	3.3	3.3	3.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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





TEST NUMBER: P684528

CATALOG NUMBER: LX6C70D010 EX6C709030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5
2.5°	3224.5	3222.3	3222.3	3221.2	3221.2	3221.2	3221.2	3222.3
5°	3189.6	3188.5	3188.5	3186.3	3186.3	3186.3	3186.3	3186.3
7.5°	3142.6	3140.4	3141.5	3139.4	3139.4	3140.4	3139.4	3138.3
10°	3084.8	3083.7	3084.8	3084.8	3082.6	3081.5	3082.6	3083.7
12.5°	3019.2	3018.1	3016.0	3017.1	3017.1	3016.0	3014.9	3012.7
15°	2942.8	2941.7	2940.6	2939.5	2938.4	2939.5	2938.4	2936.2
17.5°	2853.3	2853.3	2852.2	2851.1	2850.0	2847.8	2848.9	2852.2
20°	2757.2	2756.1	2753.9	2755.0	2750.6	2748.4	2749.5	2752.8
22.5°	2646.9	2643.6	2645.8	2642.5	2642.5	2643.6	2642.5	2640.3
25°	2526.8	2522.4	2524.6	2525.7	2525.7	2524.6	2523.5	2524.6
27.5°	2393.6	2396.8	2396.8	2394.6	2397.9	2393.6	2395.7	2396.8
30°	2257.1	2253.8	2252.7	2257.1	2263.6	2258.1	2258.1	2259.2
32.5°	2116.2	2111.8	2111.8	2114.0	2112.9	2112.9	2117.3	2111.8
35°	1965.5	1967.7	1959.0	1964.4	1966.6	1964.4	1965.5	1965.5
37.5°	1813.7	1811.5	1811.5	1811.5	1814.8	1814.8	1817.0	1815.9
40°	1664.1	1659.8	1658.7	1660.9	1656.5	1659.8	1659.8	1656.5
42.5°	1502.5	1503.6	1509.1	1503.6	1504.7	1503.6	1501.4	1500.3
45°	1352.9	1356.2	1354.0	1352.9	1354.0	1349.6	1350.7	1354.0
47.5°	1194.6	1201.1	1194.6	1199.0	1197.9	1195.7	1193.5	1189.1
50°	1046.1	1048.3	1047.2	1046.1	1045.0	1043.9	1038.4	1035.2
52.5°	894.3	894.3	894.3	894.3	883.4	888.8	886.7	880.1
55°	745.8	749.1	744.7	744.7	737.1	737.1	734.9	736.0
57.5°	602.8	599.5	596.2	596.2	588.6	585.3	582.0	577.6
60°	469.5	466.3	461.9	456.4	448.8	448.8	446.6	437.9
62.5°	344.0	338.5	335.2	330.9	324.3	319.9	316.7	318.8
65°	235.9	230.4	226.0	226.0	226.0	223.8	222.8	222.8
67.5°	155.1	158.3	156.1	158.3	158.3	156.1	155.1	157.2
70°	107.0	107.0	105.9	105.9	105.9	105.9	104.8	105.9
72.5°	68.8	68.8	68.8	69.9	68.8	68.8	69.9	69.9
75°	43.7	43.7	43.7	44.8	43.7	43.7	44.8	43.7
77.5°	26.2	27.3	27.3	27.3	27.3	26.2	27.3	27.3
80°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
82.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)