

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: P684521

Luminaire Tested: **LX6C70D010 EX6C709027 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684521
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 EX6C709027 6LBLWWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

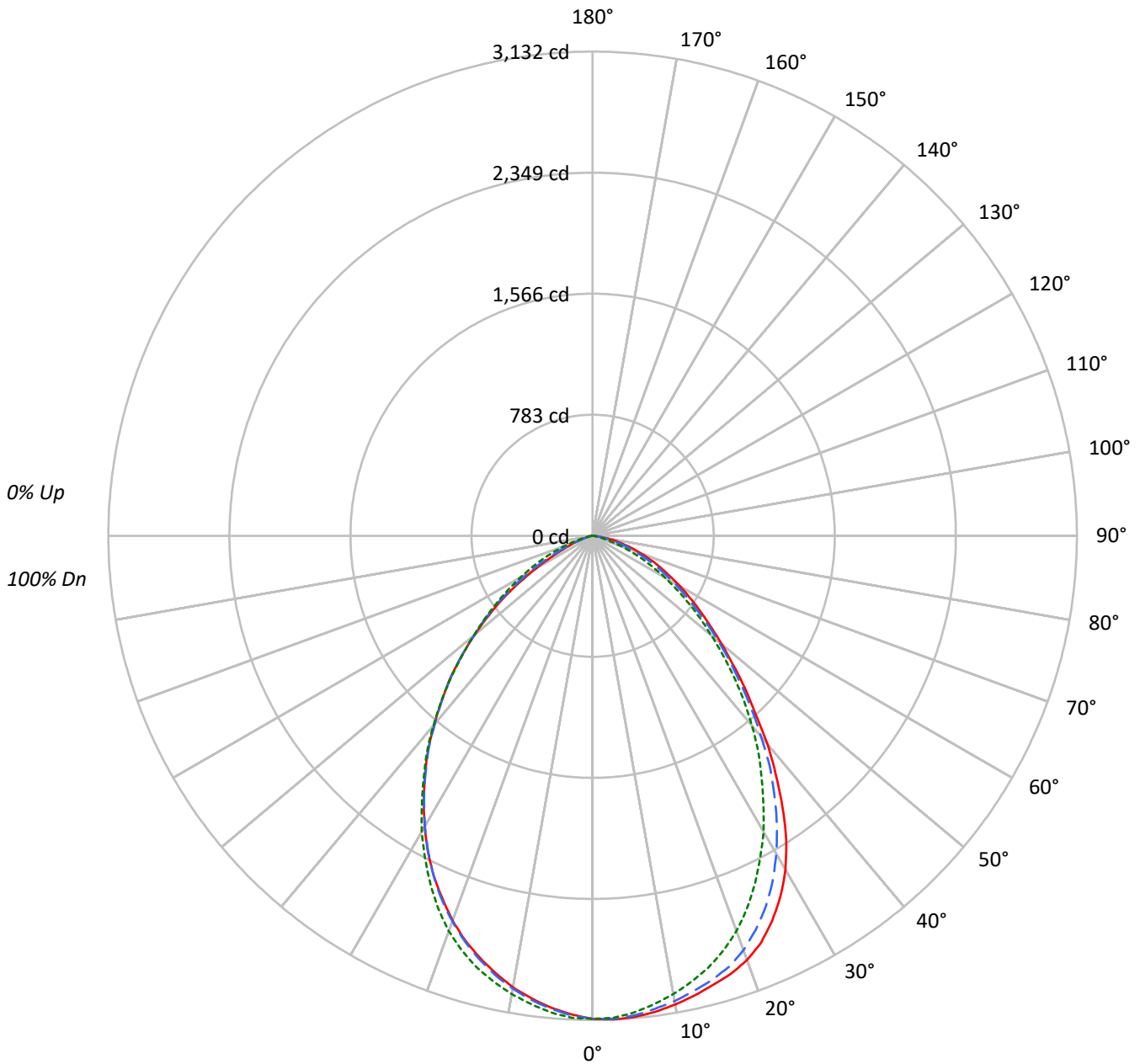
Lumens per Lamp: N/A
Luminaire Lumens: 5684.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
RC	80									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	41	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°	171302	171302	171302
5°	171901	170339	168666
10°	171373	167577	165116
15°	170733	164116	160296
20°	170348	158710	154480
25°	166207	150196	146894
30°	157910	139895	137565
35°	143329	127375	126531
40°	125757	114629	114028
45°	107817	100165	100979
50°	92807	85370	84927
55°	81115	72083	67658
60°	71288	59074	46181
65°	62406	45777	27798
70°	53198	30806	16333
75°	42934	16013	8896
80°	29833	6314	4988
85°	11888	2013	2642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.8	5.2
10°-20°	817.6	14.4
20°-30°	1163.5	20.5
30°-40°	1224.6	21.5
40°-50°	1020.6	18.0
50°-60°	689.5	12.1
60°-70°	349.6	6.2
70°-80°	112.8	2.0
80°-90°	13.0	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°	2273.9	40.0
0°-40°	3498.6	61.6
0°-60°	5208.6	91.6
0°-90°	5684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5684.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3125	3125	3125	3125	3125	
5°	3124	3114	3095	3072	3065	297
15°	3008	2976	2892	2834	2824	850
25°	2748	2648	2483	2432	2428	1259
35°	2142	2049	1903	1884	1891	1333
45°	1391	1355	1292	1297	1302	1076
55°	849	808	754	731	708	764
65°	481	434	353	255	214	479
75°	203	159	76	41	42	219
85°	19	10	3	4	4	33
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°	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8
2.5°	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3131.2	3131.2	3129.1	3129.1	3128.0
5°	3123.8	3124.8	3124.8	3123.8	3123.8	3121.7	3121.7	3120.6	3117.5	3115.4	3114.3
7.5°	3105.9	3105.9	3104.9	3103.8	3102.8	3099.6	3098.6	3095.4	3093.3	3091.2	3087.0
10°	3078.6	3078.6	3077.6	3075.5	3074.4	3072.3	3072.3	3068.1	3063.9	3058.7	3055.5
12.5°	3046.1	3047.1	3045.0	3044.0	3040.8	3039.8	3037.7	3032.4	3029.3	3023.0	3017.7
15°	3008.3	3010.4	3010.4	3006.2	3003.0	3002.0	2998.8	2995.7	2988.3	2982.0	2975.7
17.5°	2971.5	2973.6	2971.5	2968.3	2965.2	2961.0	2958.9	2952.6	2943.1	2934.7	2925.3
20°	2920.0	2923.2	2919.0	2913.7	2907.4	2906.4	2903.2	2892.7	2879.1	2866.5	2852.8
22.5°	2847.6	2845.5	2842.3	2840.2	2829.7	2823.4	2819.2	2805.5	2790.8	2774.0	2757.2
25°	2747.8	2752.0	2745.7	2736.2	2731.0	2724.7	2714.2	2699.4	2685.8	2667.9	2648.0
27.5°	2630.1	2630.1	2621.7	2618.6	2607.0	2598.6	2593.4	2578.7	2560.8	2542.9	2520.9
30°	2494.6	2488.3	2488.3	2473.6	2464.2	2461.0	2455.8	2431.6	2415.8	2396.9	2374.9
32.5°	2330.8	2329.7	2325.5	2316.1	2303.5	2293.0	2293.0	2276.2	2255.1	2232.0	2218.4
35°	2141.7	2142.8	2140.7	2130.1	2130.1	2117.5	2115.4	2100.7	2083.9	2066.1	2049.3
37.5°	1946.3	1950.5	1946.3	1941.1	1937.9	1936.9	1927.4	1916.9	1904.3	1893.8	1881.2
40°	1757.3	1751.0	1753.1	1742.6	1743.6	1741.5	1737.3	1723.7	1716.3	1705.8	1692.1
42.5°	1553.5	1559.8	1561.9	1555.6	1553.5	1549.3	1553.5	1548.2	1539.8	1534.6	1522.0
45°	1390.7	1384.4	1387.5	1385.4	1386.5	1378.1	1374.9	1372.8	1369.7	1360.2	1355.0
47.5°	1228.9	1230.0	1228.9	1224.7	1222.6	1222.6	1218.4	1212.1	1212.1	1205.8	1201.6
50°	1088.2	1088.2	1090.3	1085.0	1082.9	1078.7	1079.8	1073.5	1069.3	1064.0	1060.9
52.5°	959.0	960.0	955.8	956.9	954.8	954.8	950.6	946.4	942.2	932.7	930.6
55°	848.7	849.7	844.5	846.6	840.3	837.1	835.0	828.7	828.7	819.3	807.7
57.5°	745.8	744.7	743.7	740.5	736.3	733.2	730.0	722.7	719.5	713.2	703.7
60°	650.2	649.1	647.0	646.0	642.8	635.5	635.5	630.2	619.7	613.4	604.0
62.5°	559.8	559.8	558.8	555.6	552.5	549.3	547.2	543.0	532.5	525.2	516.8
65°	481.1	480.0	476.9	471.6	469.5	469.5	462.2	459.0	450.6	443.3	433.8
67.5°	405.4	401.2	399.1	400.2	393.9	393.9	387.6	382.3	375.0	362.4	355.0
70°	331.9	329.8	327.7	325.6	324.6	320.4	317.2	310.9	303.6	294.1	282.5
72.5°	265.7	265.7	262.6	260.5	257.3	253.1	251.0	245.8	237.4	226.9	218.5
75°	202.7	202.7	202.7	198.5	196.4	194.3	188.0	184.9	175.4	169.1	158.6
77.5°	149.2	147.1	143.9	142.9	140.7	138.6	135.5	130.2	121.8	114.5	108.2
80°	94.5	97.7	94.5	94.5	89.3	87.2	86.1	79.8	76.7	70.4	65.1
82.5°	52.5	53.6	51.5	50.4	47.3	46.2	46.2	42.0	39.9	35.7	32.6
85°	18.9	20.0	18.9	18.9	16.8	17.9	16.8	15.8	13.7	11.6	10.5
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8
2.5°	3128.0	3125.9	3125.9	3124.8	3123.8	3123.8	3123.8	3122.7	3120.6	3120.6	3119.6
5°	3112.2	3110.1	3107.0	3104.9	3103.8	3102.8	3101.7	3100.7	3096.5	3095.4	3092.3
7.5°	3083.9	3081.8	3076.5	3074.4	3071.3	3070.2	3066.0	3063.9	3059.7	3055.5	3053.4
10°	3050.3	3045.0	3040.8	3035.6	3033.5	3030.3	3025.1	3018.8	3015.6	3010.4	3006.2
12.5°	3012.5	3006.2	2997.8	2991.5	2989.4	2984.1	2975.7	2970.4	2963.1	2954.7	2947.3
15°	2965.2	2957.8	2950.5	2938.9	2935.8	2929.5	2921.1	2910.6	2900.1	2891.7	2883.3
17.5°	2913.7	2902.2	2890.6	2878.0	2868.6	2865.4	2851.8	2837.0	2827.6	2812.9	2803.4
20°	2841.2	2825.5	2806.6	2794.0	2785.6	2776.1	2760.4	2744.6	2733.1	2720.5	2706.8
22.5°	2741.5	2726.8	2704.7	2685.8	2679.5	2665.8	2652.2	2637.5	2622.8	2609.1	2592.3
25°	2623.8	2608.1	2586.0	2567.1	2556.6	2550.3	2524.0	2509.3	2494.6	2483.1	2471.5
27.5°	2503.0	2474.7	2460.0	2430.6	2421.1	2419.0	2394.8	2379.1	2363.3	2347.6	2332.9
30°	2353.9	2331.8	2309.8	2288.8	2276.2	2268.8	2250.9	2231.0	2220.5	2210.0	2195.3
32.5°	2199.5	2179.5	2152.2	2132.3	2122.8	2112.3	2096.5	2082.9	2067.1	2055.6	2052.4
35°	2034.6	2012.5	1989.4	1974.7	1972.6	1960.0	1944.2	1932.7	1921.1	1903.3	1900.1
37.5°	1858.1	1845.5	1829.7	1808.7	1799.3	1799.3	1783.5	1775.1	1760.4	1759.4	1751.0
40°	1684.8	1679.5	1655.4	1649.1	1647.0	1632.3	1628.1	1613.4	1602.9	1601.8	1589.2
42.5°	1513.6	1499.9	1495.7	1485.2	1475.8	1473.7	1464.2	1457.9	1453.7	1447.4	1441.1
45°	1343.4	1340.3	1329.8	1322.4	1319.3	1315.1	1311.9	1299.3	1297.2	1292.0	1288.8
47.5°	1196.4	1188.0	1178.5	1170.1	1169.1	1162.8	1155.4	1155.4	1143.9	1142.8	1140.7
50°	1050.4	1044.1	1038.8	1027.3	1029.4	1021.0	1019.9	1010.5	1005.2	1001.0	1006.3
52.5°	922.2	909.6	907.5	898.1	894.9	896.0	884.4	881.3	879.2	875.0	872.9
55°	800.4	794.1	785.7	779.4	774.1	768.9	764.7	764.7	753.1	754.2	748.9
57.5°	693.2	688.0	677.5	668.0	665.9	659.6	654.4	649.1	648.1	640.7	635.5
60°	597.7	588.2	574.6	570.4	564.0	558.8	553.5	547.2	544.1	538.8	529.4
62.5°	508.4	492.6	487.4	479.0	471.6	468.5	460.1	452.7	447.5	440.1	432.8
65°	423.3	411.7	402.3	392.8	391.8	383.4	376.0	369.7	359.2	352.9	339.3
67.5°	345.6	335.1	324.6	315.1	307.8	305.7	294.1	286.8	279.4	266.8	255.2
70°	274.1	263.6	255.2	243.7	240.5	232.1	223.7	216.4	203.8	192.2	182.8
72.5°	209.0	197.5	188.0	179.6	174.4	167.0	158.6	150.2	137.6	126.0	117.6
75°	149.2	140.7	131.3	122.9	118.7	114.5	105.0	95.6	87.2	75.6	68.3
77.5°	100.8	92.4	84.0	76.7	71.4	68.3	62.0	54.6	47.3	41.0	35.7
80°	58.8	53.6	47.3	41.0	39.9	36.8	31.5	27.3	23.1	20.0	15.8
82.5°	28.4	25.2	21.0	17.9	15.8	14.7	12.6	10.5	8.4	7.4	7.4
85°	8.4	7.4	6.3	5.3	4.2	4.2	3.2	3.2	3.2	3.2	3.2
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°	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8
2.5°	3116.4	3115.4	3114.3	3113.3	3111.2	3111.2	3108.0	3105.9	3105.9	3103.8	3102.8
5°	3089.1	3086.0	3084.9	3082.8	3080.7	3079.7	3075.5	3074.4	3072.3	3070.2	3070.2
7.5°	3050.3	3046.1	3041.9	3039.8	3038.7	3035.6	3033.5	3032.4	3029.3	3027.2	3023.0
10°	2998.8	2995.7	2990.4	2988.3	2986.2	2984.1	2978.8	2975.7	2974.6	2972.5	2970.4
12.5°	2938.9	2934.7	2929.5	2925.3	2923.2	2920.0	2914.8	2911.6	2911.6	2907.4	2907.4
15°	2874.9	2868.6	2859.1	2854.9	2853.9	2847.6	2843.4	2839.1	2833.9	2831.8	2831.8
17.5°	2792.9	2782.4	2774.0	2774.0	2769.8	2763.5	2757.2	2754.1	2750.9	2746.7	2744.6
20°	2696.3	2688.9	2679.5	2679.5	2670.0	2667.9	2661.6	2660.6	2653.2	2654.3	2651.1
22.5°	2579.7	2575.5	2570.3	2566.1	2560.8	2554.5	2551.3	2552.4	2549.2	2548.2	2547.1
25°	2462.1	2450.5	2444.2	2442.1	2440.0	2434.8	2432.7	2431.6	2431.6	2428.5	2429.5
27.5°	2326.6	2318.2	2309.8	2312.9	2308.7	2305.6	2303.5	2300.3	2302.4	2301.4	2302.4
30°	2187.9	2177.4	2172.2	2174.3	2173.2	2164.8	2169.0	2168.0	2169.0	2169.0	2171.1
32.5°	2041.9	2034.6	2033.5	2034.6	2025.1	2026.2	2022.0	2028.3	2029.3	2035.6	2030.4
35°	1893.8	1889.6	1882.3	1881.2	1882.3	1881.2	1881.2	1885.4	1884.4	1890.7	1888.6
37.5°	1741.5	1739.4	1732.1	1734.2	1730.0	1737.3	1739.4	1737.3	1744.7	1742.6	1741.5
40°	1592.4	1589.2	1585.0	1593.4	1588.2	1584.0	1591.3	1585.0	1587.1	1593.4	1593.4
42.5°	1441.1	1435.9	1435.9	1435.9	1434.8	1434.8	1438.0	1441.1	1439.0	1440.1	1448.5
45°	1288.8	1287.8	1284.6	1286.7	1285.7	1290.9	1290.9	1293.0	1297.2	1301.4	1299.3
47.5°	1141.8	1139.7	1142.8	1140.7	1141.8	1138.6	1140.7	1147.0	1152.3	1144.9	1152.3
50°	1004.2	1000.0	998.9	1002.1	1001.0	1000.0	1002.1	1002.1	1000.0	1000.0	1007.3
52.5°	872.9	868.7	865.5	870.8	867.6	868.7	864.5	864.5	866.6	864.5	861.3
55°	750.0	746.8	742.6	744.7	739.5	738.4	734.2	734.2	731.1	729.0	722.7
57.5°	632.3	630.2	620.8	619.7	620.8	613.4	606.1	602.9	594.5	592.4	591.4
60°	528.3	516.8	511.5	505.2	501.0	497.9	489.5	484.2	471.6	464.3	463.2
62.5°	420.1	414.9	408.6	399.1	397.0	386.5	378.1	364.5	358.2	348.7	339.3
65°	333.0	319.3	309.9	304.6	296.2	286.8	277.3	262.6	255.2	243.7	234.2
67.5°	243.7	232.1	219.5	215.3	208.0	196.4	187.0	174.4	168.1	157.6	154.4
70°	167.0	156.5	147.1	140.7	135.5	123.9	114.5	110.3	104.0	101.9	101.9
72.5°	107.1	97.7	87.2	84.0	79.8	73.5	67.2	65.1	67.2	66.2	66.2
75°	59.9	54.6	47.3	44.1	44.1	42.0	41.0	41.0	41.0	41.0	41.0
77.5°	30.5	27.3	25.2	24.2	24.2	24.2	25.2	25.2	25.2	26.3	25.2
80°	14.7	13.7	13.7	13.7	14.7	14.7	14.7	14.7	14.7	15.8	14.7
82.5°	7.4	7.4	7.4	7.4	7.4	7.4	8.4	8.4	8.4	8.4	8.4
85°	3.2	3.2	3.2	3.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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: P684521

CATALOG NUMBER: LX6C70D010 EX6C709027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8
2.5°	3101.7	3099.6	3099.6	3098.6	3098.6	3098.6	3098.6	3099.6
5°	3068.1	3067.1	3067.1	3065.0	3065.0	3065.0	3065.0	3065.0
7.5°	3023.0	3020.9	3021.9	3019.8	3019.8	3020.9	3019.8	3018.8
10°	2967.3	2966.2	2967.3	2967.3	2965.2	2964.1	2965.2	2966.2
12.5°	2904.3	2903.2	2901.1	2902.2	2902.2	2901.1	2900.1	2898.0
15°	2830.7	2829.7	2828.6	2827.6	2826.5	2827.6	2826.5	2824.4
17.5°	2744.6	2744.6	2743.6	2742.5	2741.5	2739.4	2740.4	2743.6
20°	2652.2	2651.1	2649.0	2650.1	2645.9	2643.8	2644.8	2648.0
22.5°	2546.1	2542.9	2545.0	2541.9	2541.9	2542.9	2541.9	2539.8
25°	2430.6	2426.4	2428.5	2429.5	2429.5	2428.5	2427.4	2428.5
27.5°	2302.4	2305.6	2305.6	2303.5	2306.6	2302.4	2304.5	2305.6
30°	2171.1	2168.0	2166.9	2171.1	2177.4	2172.2	2172.2	2173.2
32.5°	2035.6	2031.4	2031.4	2033.5	2032.5	2032.5	2036.7	2031.4
35°	1890.7	1892.8	1884.4	1889.6	1891.7	1889.6	1890.7	1890.7
37.5°	1744.7	1742.6	1742.6	1742.6	1745.7	1745.7	1747.8	1746.8
40°	1600.8	1596.6	1595.5	1597.6	1593.4	1596.6	1596.6	1593.4
42.5°	1445.3	1446.4	1451.6	1446.4	1447.4	1446.4	1444.3	1443.2
45°	1301.4	1304.6	1302.5	1301.4	1302.5	1298.3	1299.3	1302.5
47.5°	1149.1	1155.4	1149.1	1153.3	1152.3	1150.2	1148.1	1143.9
50°	1006.3	1008.4	1007.3	1006.3	1005.2	1004.2	998.9	995.8
52.5°	860.3	860.3	860.3	860.3	849.7	855.0	852.9	846.6
55°	717.4	720.6	716.4	716.4	709.0	709.0	706.9	707.9
57.5°	579.8	576.7	573.5	573.5	566.1	563.0	559.8	555.6
60°	451.7	448.5	444.3	439.1	431.7	431.7	429.6	421.2
62.5°	330.9	325.6	322.5	318.3	312.0	307.8	304.6	306.7
65°	226.9	221.6	217.4	217.4	217.4	215.3	214.3	214.3
67.5°	149.2	152.3	150.2	152.3	152.3	150.2	149.2	151.3
70°	102.9	102.9	101.9	101.9	101.9	101.9	100.8	101.9
72.5°	66.2	66.2	66.2	67.2	66.2	66.2	67.2	67.2
75°	42.0	42.0	42.0	43.1	42.0	42.0	43.1	42.0
77.5°	25.2	26.3	26.3	26.3	26.3	25.2	26.3	26.3
80°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
82.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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)