

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: P563975

Luminaire Tested: **LX6C60D010 EX6C609030 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P563975
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: LX6C60D010 EX6C609030 6LBLWWH
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

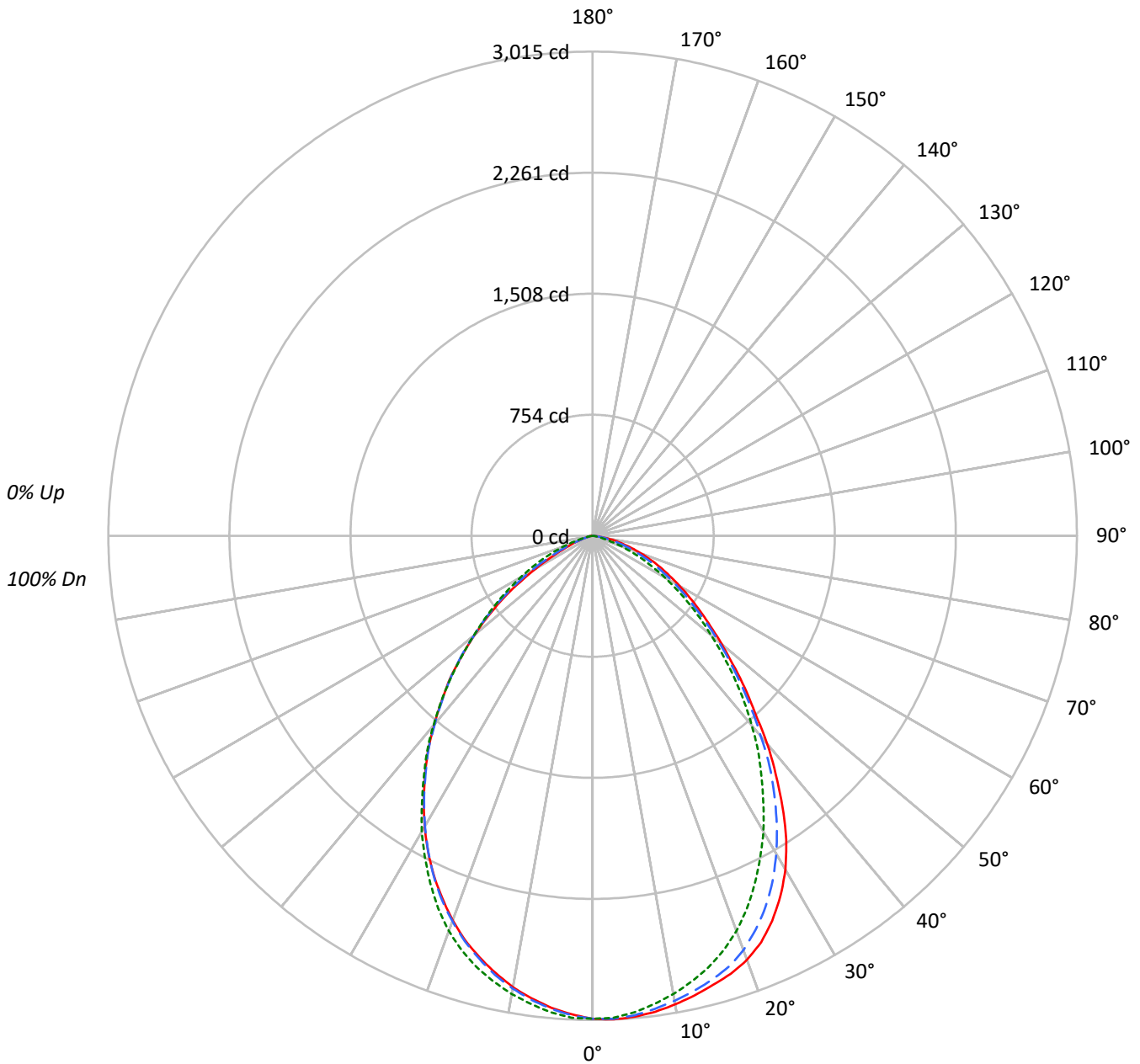
Lumens per Lamp: N/A
Luminaire Lumens: 5470.5 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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

TEST NUMBER: P563975

CATALOG NUMBER: LX6C60D010 EX6C609030 6LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P563975

CATALOG NUMBER: LX6C60D010 EX6C609030 6LBLWWH

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	41	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°	164872	164872	164872
5°	165441	163944	162332
10°	164938	161281	158920
15°	164320	157952	154280
20°	163948	152747	148675
25°	159959	144553	141371
30°	151979	134641	132400
35°	137949	122590	121780
40°	121034	110328	109741
45°	103763	96398	97181
50°	89319	82164	81729
55°	78067	69379	65116
60°	68613	56859	44448
65°	60058	44051	26747
70°	51195	29652	15724
75°	41324	15420	8578
80°	28697	6061	4799
85°	11448	1950	2579



TEST NUMBER: P563975

CATALOG NUMBER: LX6C60D010 EX6C609030 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	5.2
10°-20°	786.9	14.4
20°-30°	1119.8	20.5
30°-40°	1178.6	21.5
40°-50°	982.2	18.0
50°-60°	663.6	12.1
60°-70°	336.5	6.2
70°-80°	108.6	2.0
80°-90°	12.5	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°	2188.5	40.0
0°-40°	3367.1	61.6
0°-60°	5013.0	91.6
0°-90°	5470.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5470.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3008	3008	3008	3008	3008	
5°	3006	2997	2979	2957	2950	286
15°	2895	2864	2783	2727	2718	818
25°	2644	2548	2390	2340	2337	1212
35°	2061	1972	1832	1814	1820	1283
45°	1338	1304	1243	1248	1254	1036
55°	817	777	726	704	681	735
65°	463	418	340	246	206	461
75°	195	153	73	40	40	211
85°	18	10	3	4	4	31
90°	0	0	0	0	0	



TEST NUMBER: P563975

CATALOG NUMBER: LX6C60D010 EX6C609030 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5
2.5°	3014.6	3014.6	3014.6	3014.6	3014.6	3014.6	3013.6	3013.6	3011.5	3011.5	3010.5
5°	3006.4	3007.5	3007.5	3006.4	3006.4	3004.4	3004.4	3003.4	3000.4	2998.4	2997.4
7.5°	2989.2	2989.2	2988.2	2987.2	2986.3	2983.2	2982.2	2979.2	2977.1	2975.1	2971.0
10°	2963.0	2963.0	2962.0	2960.0	2958.9	2956.9	2956.9	2952.9	2948.9	2943.8	2940.7
12.5°	2931.7	2932.7	2930.7	2929.6	2926.6	2925.6	2923.5	2918.6	2915.5	2909.4	2904.4
15°	2895.3	2897.3	2897.3	2893.2	2890.2	2889.2	2886.2	2883.2	2876.0	2870.0	2863.9
17.5°	2859.9	2861.9	2859.9	2856.8	2853.9	2849.8	2847.8	2841.6	2832.6	2824.5	2815.4
20°	2810.3	2813.4	2809.3	2804.3	2798.2	2797.2	2794.1	2784.1	2771.0	2758.7	2745.6
22.5°	2740.6	2738.6	2735.6	2733.5	2723.5	2717.3	2713.3	2700.2	2686.0	2669.8	2653.7
25°	2644.5	2648.6	2642.6	2633.4	2628.3	2622.3	2612.2	2598.0	2584.9	2567.7	2548.5
27.5°	2531.3	2531.3	2523.3	2520.2	2509.1	2501.0	2495.9	2481.8	2464.6	2447.4	2426.2
30°	2400.9	2394.9	2394.9	2380.8	2371.6	2368.6	2363.6	2340.3	2325.1	2306.9	2285.6
32.5°	2243.2	2242.2	2238.1	2229.1	2217.0	2206.8	2206.8	2190.6	2170.4	2148.2	2135.1
35°	2061.3	2062.3	2060.2	2050.2	2050.2	2038.0	2036.0	2021.8	2005.6	1988.4	1972.2
37.5°	1873.3	1877.2	1873.3	1868.2	1865.1	1864.1	1855.1	1844.9	1832.8	1822.7	1810.5
40°	1691.3	1685.2	1687.2	1677.2	1678.1	1676.1	1672.1	1659.0	1651.8	1641.8	1628.5
42.5°	1495.2	1501.2	1503.2	1497.2	1495.2	1491.1	1495.2	1490.1	1482.0	1477.0	1464.8
45°	1338.4	1332.4	1335.4	1333.4	1334.4	1326.3	1323.3	1321.2	1318.2	1309.1	1304.1
47.5°	1182.8	1183.8	1182.8	1178.7	1176.7	1176.7	1172.6	1166.6	1166.6	1160.5	1156.5
50°	1047.3	1047.3	1049.3	1044.3	1042.2	1038.3	1039.2	1033.2	1029.1	1024.0	1021.1
52.5°	923.0	924.0	920.0	921.0	918.9	918.9	914.9	910.8	906.8	897.7	895.6
55°	816.8	817.8	812.7	814.8	808.8	805.7	803.7	797.6	797.6	788.5	777.3
57.5°	717.7	716.7	715.7	712.7	708.7	705.6	702.6	695.5	692.5	686.4	677.4
60°	625.8	624.8	622.7	621.7	618.7	611.6	611.6	606.6	596.5	590.4	581.2
62.5°	538.8	538.8	537.8	534.7	531.8	528.7	526.7	522.6	512.6	505.4	497.4
65°	463.0	462.0	459.0	453.9	451.8	451.8	444.8	441.8	433.6	426.6	417.5
67.5°	390.2	386.1	384.2	385.1	379.1	379.1	373.0	368.0	360.9	348.8	341.7
70°	319.4	317.5	315.4	313.4	312.4	308.3	305.3	299.3	292.1	283.1	271.9
72.5°	255.7	255.7	252.8	250.7	247.7	243.6	241.6	236.6	228.5	218.4	210.3
75°	195.1	195.1	195.1	191.0	189.0	187.1	181.0	177.9	168.9	162.8	152.7
77.5°	143.5	141.5	138.5	137.5	135.5	133.5	130.4	125.3	117.3	110.2	104.2
80°	90.9	94.0	90.9	90.9	86.0	83.9	82.9	76.8	73.7	67.7	62.7
82.5°	50.6	51.6	49.5	48.5	45.5	44.5	44.5	40.5	38.5	34.4	31.3
85°	18.2	19.2	18.2	18.2	16.2	17.2	16.2	15.2	13.1	11.1	10.1
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P563975

CATALOG NUMBER: LX6C60D010 EX6C609030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5
2.5°	3010.5	3008.5	3008.5	3007.5	3006.4	3006.4	3006.4	3005.4	3003.4	3003.4	3002.5
5°	2995.3	2993.3	2990.3	2988.2	2987.2	2986.3	2985.3	2984.3	2980.2	2979.2	2976.1
7.5°	2968.1	2966.1	2961.0	2958.9	2955.9	2954.9	2950.9	2948.9	2944.8	2940.7	2938.7
10°	2935.7	2930.7	2926.6	2921.5	2919.6	2916.5	2911.4	2905.3	2902.4	2897.3	2893.2
12.5°	2899.3	2893.2	2885.2	2879.1	2877.0	2872.0	2863.9	2858.8	2851.8	2843.7	2836.7
15°	2853.9	2846.7	2839.6	2828.5	2825.5	2819.5	2811.3	2801.3	2791.1	2783.1	2774.9
17.5°	2804.3	2793.1	2782.0	2769.9	2760.8	2757.7	2744.6	2730.5	2721.4	2707.3	2698.1
20°	2734.5	2719.4	2701.2	2689.1	2680.9	2671.9	2656.7	2641.6	2630.4	2618.3	2605.2
22.5°	2638.5	2624.4	2603.1	2584.9	2578.8	2565.7	2552.6	2538.4	2524.3	2511.2	2495.0
25°	2525.3	2510.1	2488.9	2470.7	2460.6	2454.5	2429.3	2415.0	2400.9	2389.8	2378.7
27.5°	2409.0	2381.7	2367.5	2339.3	2330.2	2328.2	2304.9	2289.7	2274.6	2259.4	2245.3
30°	2265.5	2244.2	2223.0	2202.7	2190.6	2183.6	2166.4	2147.2	2137.0	2127.0	2112.8
32.5°	2116.9	2097.7	2071.3	2052.2	2043.0	2033.0	2017.8	2004.7	1989.4	1978.4	1975.3
35°	1958.1	1937.0	1914.7	1900.5	1898.5	1886.4	1871.2	1860.1	1849.0	1831.8	1828.7
37.5°	1788.3	1776.1	1761.0	1740.8	1731.7	1731.7	1716.5	1708.5	1694.2	1693.3	1685.2
40°	1621.5	1616.4	1593.2	1587.1	1585.1	1571.0	1566.9	1552.8	1542.7	1541.7	1529.6
42.5°	1456.7	1443.6	1439.5	1429.5	1420.3	1418.3	1409.2	1403.1	1399.2	1393.1	1387.0
45°	1293.0	1289.9	1279.8	1272.7	1269.7	1265.7	1262.7	1250.5	1248.5	1243.4	1240.4
47.5°	1151.5	1143.3	1134.3	1126.1	1125.1	1119.1	1112.0	1112.0	1100.9	1099.9	1097.9
50°	1010.9	1004.9	999.8	988.7	990.7	982.6	981.6	972.5	967.5	963.4	968.5
52.5°	887.6	875.5	873.5	864.3	861.3	862.3	851.2	848.1	846.1	842.1	840.1
55°	770.3	764.2	756.2	750.1	745.0	740.0	735.9	735.9	724.9	725.9	720.8
57.5°	667.2	662.2	652.0	643.0	640.9	634.8	629.9	624.8	623.7	616.6	611.6
60°	575.2	566.1	552.9	548.9	542.9	537.8	532.7	526.7	523.7	518.6	509.5
62.5°	489.3	474.1	469.0	461.0	453.9	450.8	442.8	435.7	430.7	423.6	416.5
65°	407.4	396.3	387.1	378.1	377.1	368.9	361.9	355.8	345.7	339.6	326.5
67.5°	332.6	322.5	312.4	303.2	296.2	294.2	283.1	276.0	268.9	256.7	245.7
70°	263.9	253.7	245.7	234.6	231.5	223.4	215.3	208.2	196.1	185.0	175.9
72.5°	201.2	190.0	181.0	172.8	167.8	160.7	152.7	144.5	132.4	121.4	113.2
75°	143.5	135.5	126.3	118.3	114.2	110.2	101.1	92.0	83.9	72.8	65.7
77.5°	97.0	89.0	80.9	73.7	68.8	65.7	59.6	52.6	45.5	39.5	34.4
80°	56.7	51.6	45.5	39.5	38.5	35.4	30.3	26.2	22.3	19.2	15.2
82.5°	27.3	24.3	20.2	17.2	15.2	14.1	12.1	10.1	8.1	7.1	7.1
85°	8.1	7.1	6.1	5.1	4.1	4.1	3.1	3.1	3.1	3.1	3.1
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P563975

CATALOG NUMBER: LX6C60D010 EX6C609030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5
2.5°	2999.4	2998.4	2997.4	2996.4	2994.3	2994.3	2991.3	2989.2	2989.2	2987.2	2986.3
5°	2973.1	2970.1	2969.1	2967.1	2965.0	2964.0	2960.0	2958.9	2956.9	2954.9	2954.9
7.5°	2935.7	2931.7	2927.6	2925.6	2924.6	2921.5	2919.6	2918.6	2915.5	2913.5	2909.4
10°	2886.2	2883.2	2878.1	2876.0	2874.0	2872.0	2867.0	2863.9	2862.9	2860.9	2858.8
12.5°	2828.5	2824.5	2819.5	2815.4	2813.4	2810.3	2805.3	2802.3	2802.3	2798.2	2798.2
15°	2766.9	2760.8	2751.7	2747.7	2746.6	2740.6	2736.6	2732.5	2727.4	2725.4	2725.4
17.5°	2688.1	2677.9	2669.8	2669.8	2665.8	2659.7	2653.7	2650.6	2647.6	2643.5	2641.6
20°	2595.0	2588.0	2578.8	2578.8	2569.8	2567.7	2561.6	2560.7	2553.6	2554.6	2551.5
22.5°	2482.8	2478.8	2473.7	2469.7	2464.6	2458.6	2455.5	2456.5	2453.5	2452.5	2451.5
25°	2369.6	2358.5	2352.4	2350.3	2348.3	2343.3	2341.3	2340.3	2340.3	2337.2	2338.2
27.5°	2239.2	2231.1	2223.0	2226.0	2222.0	2218.9	2217.0	2213.9	2216.0	2215.0	2216.0
30°	2105.7	2095.6	2090.5	2092.6	2091.6	2083.5	2087.5	2086.5	2087.5	2087.5	2089.5
32.5°	1965.2	1958.1	1957.1	1958.1	1949.1	1950.1	1946.0	1952.1	1953.1	1959.1	1954.1
35°	1822.7	1818.7	1811.5	1810.5	1811.5	1810.5	1810.5	1814.6	1813.6	1819.7	1817.6
37.5°	1676.1	1674.1	1667.0	1669.0	1665.0	1672.1	1674.1	1672.1	1679.1	1677.2	1676.1
40°	1532.5	1529.6	1525.5	1533.5	1528.5	1524.5	1531.5	1525.5	1527.5	1533.5	1533.5
42.5°	1387.0	1382.0	1382.0	1382.0	1381.0	1381.0	1383.9	1387.0	1384.9	1385.9	1394.1
45°	1240.4	1239.4	1236.3	1238.3	1237.3	1242.4	1242.4	1244.4	1248.5	1252.5	1250.5
47.5°	1098.9	1096.8	1099.9	1097.9	1098.9	1095.8	1097.9	1104.0	1109.0	1101.9	1109.0
50°	966.4	962.4	961.4	964.4	963.4	962.4	964.4	964.4	962.4	962.4	969.5
52.5°	840.1	836.0	833.0	838.1	835.0	836.0	832.0	832.0	834.0	832.0	828.9
55°	721.8	718.8	714.7	716.7	711.7	710.7	706.6	706.6	703.6	701.6	695.5
57.5°	608.6	606.6	597.4	596.5	597.4	590.4	583.3	580.3	572.2	570.1	569.1
60°	508.5	497.4	492.3	486.2	482.3	479.2	471.1	466.1	453.9	446.9	445.8
62.5°	404.3	399.4	393.2	384.2	382.2	372.0	364.0	350.8	344.7	335.6	326.5
65°	320.4	307.3	298.2	293.2	285.1	276.0	266.9	252.8	245.7	234.6	225.4
67.5°	234.6	223.4	211.3	207.2	200.2	189.0	179.9	167.8	161.7	151.7	148.6
70°	160.7	150.6	141.5	135.5	130.4	119.3	110.2	106.2	100.1	98.1	98.1
72.5°	103.1	94.0	83.9	80.9	76.8	70.8	64.7	62.7	64.7	63.7	63.7
75°	57.6	52.6	45.5	42.4	42.4	40.5	39.5	39.5	39.5	39.5	39.5
77.5°	29.3	26.2	24.3	23.3	23.3	23.3	24.3	24.3	24.3	25.2	24.3
80°	14.1	13.1	13.1	13.1	14.1	14.1	14.1	14.1	14.1	15.2	14.1
82.5°	7.1	7.1	7.1	7.1	7.1	7.1	8.1	8.1	8.1	8.1	8.1
85°	3.1	3.1	3.1	3.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P563975

CATALOG NUMBER: LX6C60D010 EX6C609030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5	3007.5
2.5°	2985.3	2983.2	2983.2	2982.2	2982.2	2982.2	2982.2	2983.2
5°	2952.9	2951.9	2951.9	2949.9	2949.9	2949.9	2949.9	2949.9
7.5°	2909.4	2907.4	2908.4	2906.3	2906.3	2907.4	2906.3	2905.3
10°	2855.8	2854.9	2855.8	2855.8	2853.9	2852.8	2853.9	2854.9
12.5°	2795.2	2794.1	2792.1	2793.1	2793.1	2792.1	2791.1	2789.2
15°	2724.5	2723.5	2722.4	2721.4	2720.4	2721.4	2720.4	2718.4
17.5°	2641.6	2641.6	2640.5	2639.5	2638.5	2636.5	2637.5	2640.5
20°	2552.6	2551.5	2549.5	2550.5	2546.5	2544.5	2545.4	2548.5
22.5°	2450.4	2447.4	2449.4	2446.5	2446.5	2447.4	2446.5	2444.4
25°	2339.3	2335.2	2337.2	2338.2	2338.2	2337.2	2336.2	2337.2
27.5°	2216.0	2218.9	2218.9	2217.0	2219.9	2216.0	2217.9	2218.9
30°	2089.5	2086.5	2085.6	2089.5	2095.6	2090.5	2090.5	2091.6
32.5°	1959.1	1955.2	1955.2	1957.1	1956.1	1956.1	1960.1	1955.2
35°	1819.7	1821.7	1813.6	1818.7	1820.7	1818.7	1819.7	1819.7
37.5°	1679.1	1677.2	1677.2	1677.2	1680.1	1680.1	1682.1	1681.1
40°	1540.7	1536.6	1535.6	1537.6	1533.5	1536.6	1536.6	1533.5
42.5°	1391.0	1392.0	1397.1	1392.0	1393.1	1392.0	1390.0	1389.0
45°	1252.5	1255.5	1253.5	1252.5	1253.5	1249.5	1250.5	1253.5
47.5°	1105.9	1112.0	1105.9	1110.0	1109.0	1106.9	1104.9	1100.9
50°	968.5	970.5	969.5	968.5	967.5	966.4	961.4	958.3
52.5°	827.9	827.9	827.9	827.9	817.8	822.9	820.9	814.8
55°	690.5	693.5	689.5	689.5	682.3	682.3	680.3	681.3
57.5°	558.0	555.0	551.9	551.9	544.9	541.9	538.8	534.7
60°	434.6	431.7	427.6	422.5	415.5	415.5	413.5	405.4
62.5°	318.5	313.4	310.3	306.3	300.3	296.2	293.2	295.2
65°	218.4	213.3	209.2	209.2	209.2	207.2	206.2	206.2
67.5°	143.5	146.6	144.5	146.6	146.6	144.5	143.5	145.6
70°	99.1	99.1	98.1	98.1	98.1	98.1	97.0	98.1
72.5°	63.7	63.7	63.7	64.7	63.7	63.7	64.7	64.7
75°	40.5	40.5	40.5	41.4	40.5	40.5	41.4	40.5
77.5°	24.3	25.2	25.2	25.2	25.2	24.3	25.2	25.2
80°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
82.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)