

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: P684471

Luminaire Tested: **LX6C60D010 EX6C609050 6LBLWWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684471
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 EX6C609050 6LBLWWH
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

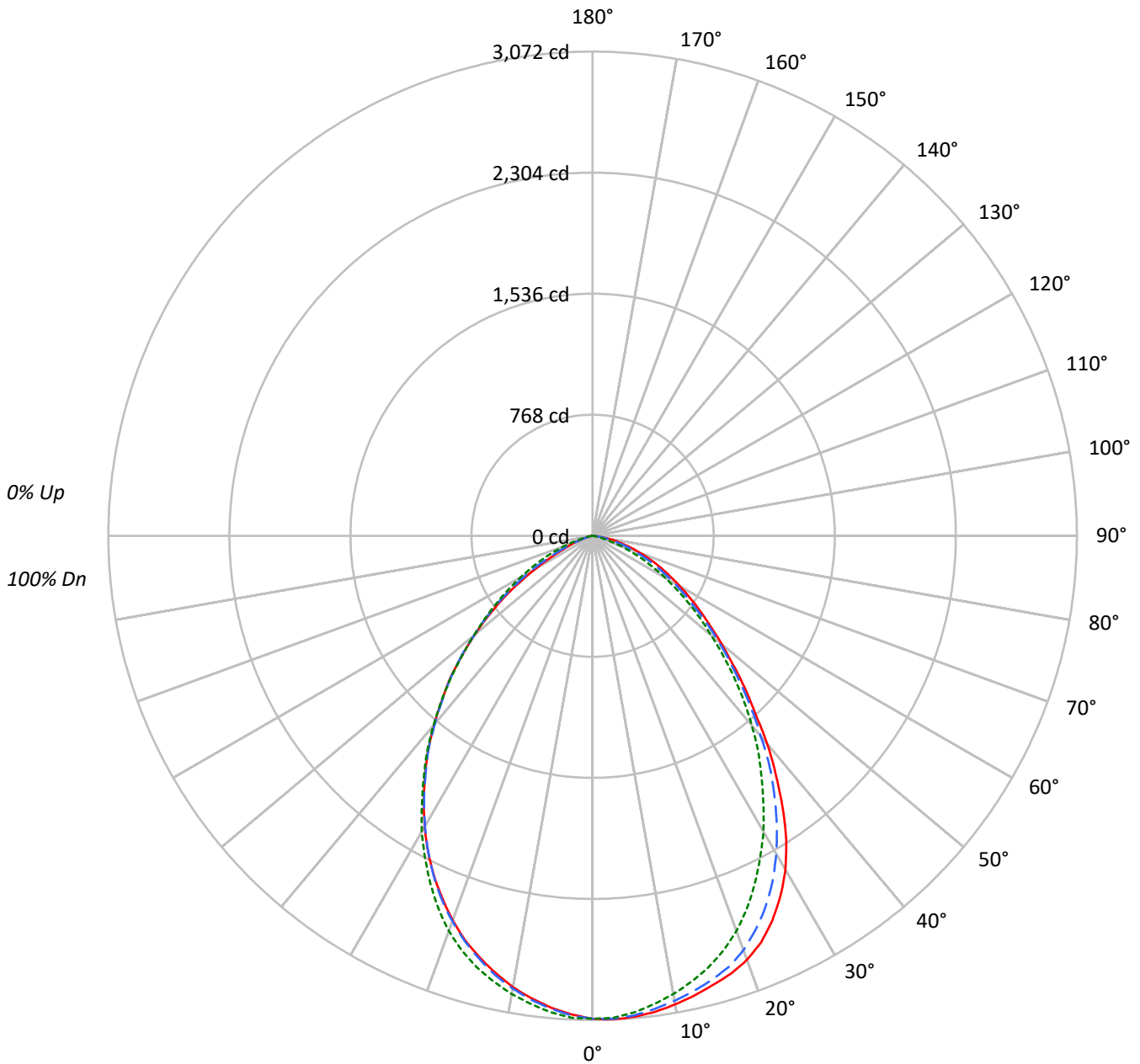
Lumens per Lamp: N/A
Luminaire Lumens: 5574.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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°	167991	167991	167991
5°	168572	167042	165402
10°	168061	164331	161921
15°	167424	160937	157197
20°	167052	155635	151487
25°	162989	147287	144051
30°	154859	137186	134907
35°	140559	124905	124082
40°	123324	112411	111824
45°	105732	98227	99026
50°	91008	83716	83281
55°	79548	70688	66349
60°	69907	57934	45281
65°	61200	44895	27253
70°	52172	30213	16012
75°	42108	15716	8727
80°	29265	6188	4893
85°	11636	1950	2579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	5.2
10°-20°	801.8	14.4
20°-30°	1141.0	20.5
30°-40°	1200.9	21.5
40°-50°	1000.8	18.0
50°-60°	676.2	12.1
60°-70°	342.8	6.2
70°-80°	110.7	2.0
80°-90°	12.7	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°	2229.9	40.0
0°-40°	3430.8	61.6
0°-60°	5107.8	91.6
0°-90°	5574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5574.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3064	3064	3064	3064	3064	
5°	3063	3054	3036	3013	3006	291
15°	2950	2918	2836	2779	2770	833
25°	2695	2597	2435	2384	2382	1235
35°	2100	2010	1866	1848	1854	1307
45°	1364	1329	1267	1272	1277	1056
55°	832	792	740	717	694	749
65°	472	425	346	250	210	470
75°	199	156	74	40	41	215
85°	18	10	3	4	4	32
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°	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4
2.5°	3071.6	3071.6	3071.6	3071.6	3071.6	3071.6	3070.6	3070.6	3068.5	3068.5	3067.5
5°	3063.3	3064.4	3064.4	3063.3	3063.3	3061.3	3061.3	3060.3	3057.2	3055.1	3054.1
7.5°	3045.8	3045.8	3044.8	3043.8	3042.7	3039.7	3038.6	3035.5	3033.5	3031.4	3027.3
10°	3019.1	3019.1	3018.0	3016.0	3014.9	3012.9	3012.9	3008.8	3004.6	2999.5	2996.4
12.5°	2987.1	2988.2	2986.1	2985.1	2982.0	2980.9	2978.9	2973.7	2970.6	2964.5	2959.3
15°	2950.0	2952.1	2952.1	2948.0	2944.9	2943.9	2940.8	2937.7	2930.5	2924.3	2918.1
17.5°	2914.0	2916.0	2914.0	2910.9	2907.8	2903.7	2901.6	2895.4	2886.2	2877.9	2868.7
20°	2863.5	2866.6	2862.5	2857.3	2851.2	2850.1	2847.0	2836.7	2823.3	2811.0	2797.6
22.5°	2792.4	2790.4	2787.3	2785.2	2774.9	2768.8	2764.6	2751.2	2736.8	2720.3	2703.9
25°	2694.6	2698.7	2692.5	2683.3	2678.1	2671.9	2661.6	2647.2	2633.8	2616.3	2596.7
27.5°	2579.2	2579.2	2571.0	2567.9	2556.6	2548.3	2543.2	2528.8	2511.2	2493.7	2472.1
30°	2446.4	2440.2	2440.2	2425.7	2416.5	2413.4	2408.2	2384.5	2369.1	2350.6	2328.9
32.5°	2285.7	2284.6	2280.5	2271.2	2258.9	2248.6	2248.6	2232.1	2211.5	2188.8	2175.4
35°	2100.3	2101.3	2099.2	2088.9	2088.9	2076.6	2074.5	2060.1	2043.6	2026.1	2009.6
37.5°	1908.7	1912.8	1908.7	1903.5	1900.4	1899.4	1890.1	1879.8	1867.5	1857.2	1844.8
40°	1723.3	1717.1	1719.1	1708.8	1709.9	1707.8	1703.7	1690.3	1683.1	1672.8	1659.4
42.5°	1523.4	1529.6	1531.7	1525.5	1523.4	1519.3	1523.4	1518.3	1510.0	1504.9	1492.5
45°	1363.8	1357.6	1360.7	1358.6	1359.7	1351.4	1348.3	1346.3	1343.2	1333.9	1328.8
47.5°	1205.1	1206.2	1205.1	1201.0	1199.0	1199.0	1194.8	1188.7	1188.7	1182.5	1178.4
50°	1067.1	1067.1	1069.2	1064.0	1062.0	1057.9	1058.9	1052.7	1048.6	1043.4	1040.3
52.5°	940.4	941.5	937.3	938.4	936.3	936.3	932.2	928.1	923.9	914.7	912.6
55°	832.3	833.3	828.2	830.2	824.0	820.9	818.9	812.7	812.7	803.4	792.1
57.5°	731.3	730.3	729.3	726.2	722.1	719.0	715.9	708.7	705.6	699.4	690.1
60°	637.6	636.6	634.5	633.5	630.4	623.2	623.2	618.0	607.7	601.5	592.3
62.5°	549.0	549.0	548.0	544.9	541.8	538.7	536.7	532.5	522.2	515.0	506.8
65°	471.8	470.7	467.6	462.5	460.4	460.4	453.2	450.1	441.9	434.7	425.4
67.5°	397.6	393.5	391.4	392.4	386.3	386.3	380.1	374.9	367.7	355.4	348.2
70°	325.5	323.4	321.4	319.3	318.3	314.2	311.1	304.9	297.7	288.4	277.1
72.5°	260.6	260.6	257.5	255.5	252.4	248.2	246.2	241.0	232.8	222.5	214.2
75°	198.8	198.8	198.8	194.7	192.6	190.6	184.4	181.3	172.0	165.8	155.5
77.5°	146.3	144.2	141.1	140.1	138.0	136.0	132.9	127.7	119.5	112.3	106.1
80°	92.7	95.8	92.7	92.7	87.6	85.5	84.5	78.3	75.2	69.0	63.9
82.5°	51.5	52.5	50.5	49.4	46.4	45.3	45.3	41.2	39.1	35.0	31.9
85°	18.5	19.6	18.5	18.5	16.5	17.5	16.5	15.5	13.4	11.3	10.3
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4
2.5°	3067.5	3065.4	3065.4	3064.4	3063.3	3063.3	3063.3	3062.3	3060.3	3060.3	3059.2
5°	3052.0	3050.0	3046.9	3044.8	3043.8	3042.7	3041.7	3040.7	3036.6	3035.5	3032.4
7.5°	3024.2	3022.1	3017.0	3014.9	3011.8	3010.8	3006.7	3004.6	3000.5	2996.4	2994.3
10°	2991.2	2986.1	2982.0	2976.8	2974.8	2971.7	2966.5	2960.3	2957.3	2952.1	2948.0
12.5°	2954.2	2948.0	2939.7	2933.6	2931.5	2926.3	2918.1	2913.0	2905.7	2897.5	2890.3
15°	2907.8	2900.6	2893.4	2882.1	2879.0	2872.8	2864.5	2854.2	2843.9	2835.7	2827.5
17.5°	2857.3	2846.0	2834.7	2822.3	2813.0	2810.0	2796.6	2782.1	2772.9	2758.5	2749.2
20°	2786.3	2770.8	2752.3	2739.9	2731.7	2722.4	2707.0	2691.5	2680.2	2667.8	2654.4
22.5°	2688.4	2674.0	2652.4	2633.8	2627.6	2614.2	2600.9	2586.4	2572.0	2558.6	2542.1
25°	2573.0	2557.6	2536.0	2517.4	2507.1	2500.9	2475.2	2460.8	2446.4	2435.0	2423.7
27.5°	2454.6	2426.8	2412.4	2383.5	2374.2	2372.2	2348.5	2333.0	2317.6	2302.1	2287.7
30°	2308.3	2286.7	2265.1	2244.5	2232.1	2224.9	2207.4	2187.8	2177.5	2167.2	2152.8
32.5°	2156.9	2137.3	2110.6	2091.0	2081.7	2071.4	2056.0	2042.6	2027.1	2015.8	2012.7
35°	1995.2	1973.6	1950.9	1936.5	1934.4	1922.1	1906.6	1895.3	1883.9	1866.4	1863.3
37.5°	1822.1	1809.8	1794.3	1773.7	1764.5	1764.5	1749.0	1740.8	1726.4	1725.3	1717.1
40°	1652.2	1647.0	1623.3	1617.2	1615.1	1600.7	1596.6	1582.1	1571.8	1570.8	1558.5
42.5°	1484.3	1470.9	1466.8	1456.5	1447.2	1445.1	1435.9	1429.7	1425.6	1419.4	1413.2
45°	1317.4	1314.3	1304.0	1296.8	1293.7	1289.6	1286.5	1274.2	1272.1	1267.0	1263.9
47.5°	1173.2	1165.0	1155.7	1147.5	1146.4	1140.3	1133.0	1133.0	1121.7	1120.7	1118.6
50°	1030.0	1023.9	1018.7	1007.4	1009.4	1001.2	1000.2	990.9	985.8	981.6	986.8
52.5°	904.4	892.0	890.0	880.7	877.6	878.6	867.3	864.2	862.1	858.0	856.0
55°	784.9	778.7	770.5	764.3	759.1	754.0	749.9	749.9	738.5	739.6	734.4
57.5°	679.8	674.7	664.4	655.1	653.0	646.9	641.7	636.6	635.5	628.3	623.2
60°	586.1	576.8	563.4	559.3	553.1	548.0	542.8	536.7	533.6	528.4	519.1
62.5°	498.5	483.1	477.9	469.7	462.5	459.4	451.2	443.9	438.8	431.6	424.4
65°	415.1	403.8	394.5	385.2	384.2	376.0	368.8	362.6	352.3	346.1	332.7
67.5°	338.9	328.6	318.3	309.0	301.8	299.7	288.4	281.2	274.0	261.6	250.3
70°	268.8	258.5	250.3	239.0	235.9	227.6	219.4	212.2	199.8	188.5	179.2
72.5°	205.0	193.6	184.4	176.1	171.0	163.8	155.5	147.3	134.9	123.6	115.4
75°	146.3	138.0	128.8	120.5	116.4	112.3	103.0	93.7	85.5	74.2	67.0
77.5°	98.9	90.6	82.4	75.2	70.0	67.0	60.8	53.6	46.4	40.2	35.0
80°	57.7	52.5	46.4	40.2	39.1	36.1	30.9	26.8	22.7	19.6	15.5
82.5°	27.8	24.7	20.6	17.5	15.5	14.4	12.4	10.3	8.2	7.2	7.2
85°	8.2	7.2	6.2	5.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4
2.5°	3056.1	3055.1	3054.1	3053.0	3051.0	3051.0	3047.9	3045.8	3045.8	3043.8	3042.7
5°	3029.4	3026.3	3025.2	3023.2	3021.1	3020.1	3016.0	3014.9	3012.9	3010.8	3010.8
7.5°	2991.2	2987.1	2983.0	2980.9	2979.9	2976.8	2974.8	2973.7	2970.6	2968.6	2964.5
10°	2940.8	2937.7	2932.5	2930.5	2928.4	2926.3	2921.2	2918.1	2917.1	2915.0	2913.0
12.5°	2882.1	2877.9	2872.8	2868.7	2866.6	2863.5	2858.4	2855.3	2855.3	2851.2	2851.2
15°	2819.2	2813.0	2803.8	2799.7	2798.6	2792.4	2788.3	2784.2	2779.1	2777.0	2777.0
17.5°	2738.9	2728.6	2720.3	2720.3	2716.2	2710.0	2703.9	2700.8	2697.7	2693.6	2691.5
20°	2644.1	2636.9	2627.6	2627.6	2618.4	2616.3	2610.1	2609.1	2601.9	2602.9	2599.8
22.5°	2529.8	2525.7	2520.5	2516.4	2511.2	2505.1	2502.0	2503.0	2499.9	2498.9	2497.9
25°	2414.4	2403.1	2396.9	2394.8	2392.8	2387.6	2385.6	2384.5	2384.5	2381.5	2382.5
27.5°	2281.5	2273.3	2265.1	2268.2	2264.0	2260.9	2258.9	2255.8	2257.9	2256.8	2257.9
30°	2145.6	2135.3	2130.1	2132.2	2131.2	2122.9	2127.0	2126.0	2127.0	2127.0	2129.1
32.5°	2002.4	1995.2	1994.2	1995.2	1985.9	1987.0	1982.8	1989.0	1990.0	1996.2	1991.1
35°	1857.2	1853.0	1845.8	1844.8	1845.8	1844.8	1844.8	1848.9	1847.9	1854.1	1852.0
37.5°	1707.8	1705.7	1698.5	1700.6	1696.5	1703.7	1705.7	1703.7	1710.9	1708.8	1707.8
40°	1561.5	1558.5	1554.3	1562.6	1557.4	1553.3	1560.5	1554.3	1556.4	1562.6	1562.6
42.5°	1413.2	1408.1	1408.1	1408.1	1407.0	1407.0	1410.1	1413.2	1411.2	1412.2	1420.4
45°	1263.9	1262.8	1259.7	1261.8	1260.8	1265.9	1265.9	1268.0	1272.1	1276.2	1274.2
47.5°	1119.7	1117.6	1120.7	1118.6	1119.7	1116.6	1118.6	1124.8	1130.0	1122.7	1130.0
50°	984.7	980.6	979.6	982.7	981.6	980.6	982.7	982.7	980.6	980.6	987.8
52.5°	856.0	851.8	848.8	853.9	850.8	851.8	847.7	847.7	849.8	847.7	844.6
55°	735.5	732.4	728.2	730.3	725.1	724.1	720.0	720.0	716.9	714.8	708.7
57.5°	620.1	618.0	608.8	607.7	608.8	601.5	594.3	591.2	583.0	580.9	579.9
60°	518.1	506.8	501.6	495.5	491.3	488.2	480.0	474.8	462.5	455.3	454.2
62.5°	412.0	406.9	400.7	391.4	389.4	379.1	370.8	357.4	351.2	342.0	332.7
65°	326.5	313.1	303.9	298.7	290.5	281.2	271.9	257.5	250.3	239.0	229.7
67.5°	239.0	227.6	215.3	211.2	203.9	192.6	183.3	171.0	164.8	154.5	151.4
70°	163.8	153.5	144.2	138.0	132.9	121.5	112.3	108.2	102.0	99.9	99.9
72.5°	105.1	95.8	85.5	82.4	78.3	72.1	65.9	63.9	65.9	64.9	64.9
75°	58.7	53.6	46.4	43.3	43.3	41.2	40.2	40.2	40.2	40.2	40.2
77.5°	29.9	26.8	24.7	23.7	23.7	23.7	24.7	24.7	24.7	25.8	24.7
80°	14.4	13.4	13.4	13.4	14.4	14.4	14.4	14.4	14.4	15.5	14.4
82.5°	7.2	7.2	7.2	7.2	7.2	7.2	8.2	8.2	8.2	8.2	8.2
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: P684471

CATALOG NUMBER: LX6C60D010 EX6C609050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4
2.5°	3041.7	3039.7	3039.7	3038.6	3038.6	3038.6	3038.6	3039.7
5°	3008.8	3007.7	3007.7	3005.7	3005.7	3005.7	3005.7	3005.7
7.5°	2964.5	2962.4	2963.4	2961.4	2961.4	2962.4	2961.4	2960.3
10°	2909.9	2908.8	2909.9	2909.9	2907.8	2906.8	2907.8	2908.8
12.5°	2848.1	2847.0	2845.0	2846.0	2846.0	2845.0	2843.9	2841.9
15°	2776.0	2774.9	2773.9	2772.9	2771.8	2772.9	2771.8	2769.8
17.5°	2691.5	2691.5	2690.5	2689.4	2688.4	2686.3	2687.4	2690.5
20°	2600.9	2599.8	2597.8	2598.8	2594.7	2592.6	2593.6	2596.7
22.5°	2496.8	2493.7	2495.8	2492.7	2492.7	2493.7	2492.7	2490.6
25°	2383.5	2379.4	2381.5	2382.5	2382.5	2381.5	2380.4	2381.5
27.5°	2257.9	2260.9	2260.9	2258.9	2262.0	2257.9	2259.9	2260.9
30°	2129.1	2126.0	2125.0	2129.1	2135.3	2130.1	2130.1	2131.2
32.5°	1996.2	1992.1	1992.1	1994.2	1993.1	1993.1	1997.3	1992.1
35°	1854.1	1856.1	1847.9	1853.0	1855.1	1853.0	1854.1	1854.1
37.5°	1710.9	1708.8	1708.8	1708.8	1711.9	1711.9	1714.0	1713.0
40°	1569.8	1565.7	1564.6	1566.7	1562.6	1565.7	1565.7	1562.6
42.5°	1417.3	1418.4	1423.5	1418.4	1419.4	1418.4	1416.3	1415.3
45°	1276.2	1279.3	1277.3	1276.2	1277.3	1273.1	1274.2	1277.3
47.5°	1126.9	1133.0	1126.9	1131.0	1130.0	1127.9	1125.8	1121.7
50°	986.8	988.8	987.8	986.8	985.8	984.7	979.6	976.5
52.5°	843.6	843.6	843.6	843.6	833.3	838.5	836.4	830.2
55°	703.5	706.6	702.5	702.5	695.3	695.3	693.2	694.2
57.5°	568.6	565.5	562.4	562.4	555.2	552.1	549.0	544.9
60°	442.9	439.8	435.7	430.6	423.3	423.3	421.3	413.0
62.5°	324.5	319.3	316.2	312.1	305.9	301.8	298.7	300.8
65°	222.5	217.3	213.2	213.2	213.2	211.2	210.1	210.1
67.5°	146.3	149.4	147.3	149.4	149.4	147.3	146.3	148.3
70°	100.9	100.9	99.9	99.9	99.9	99.9	98.9	99.9
72.5°	64.9	64.9	64.9	65.9	64.9	64.9	65.9	65.9
75°	41.2	41.2	41.2	42.2	41.2	41.2	42.2	41.2
77.5°	24.7	25.8	25.8	25.8	25.8	24.7	25.8	25.8
80°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
82.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)