

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252524

Luminaire Tested: **LE\_6B60D010R EC6B60709027 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60709027 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5206.2 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

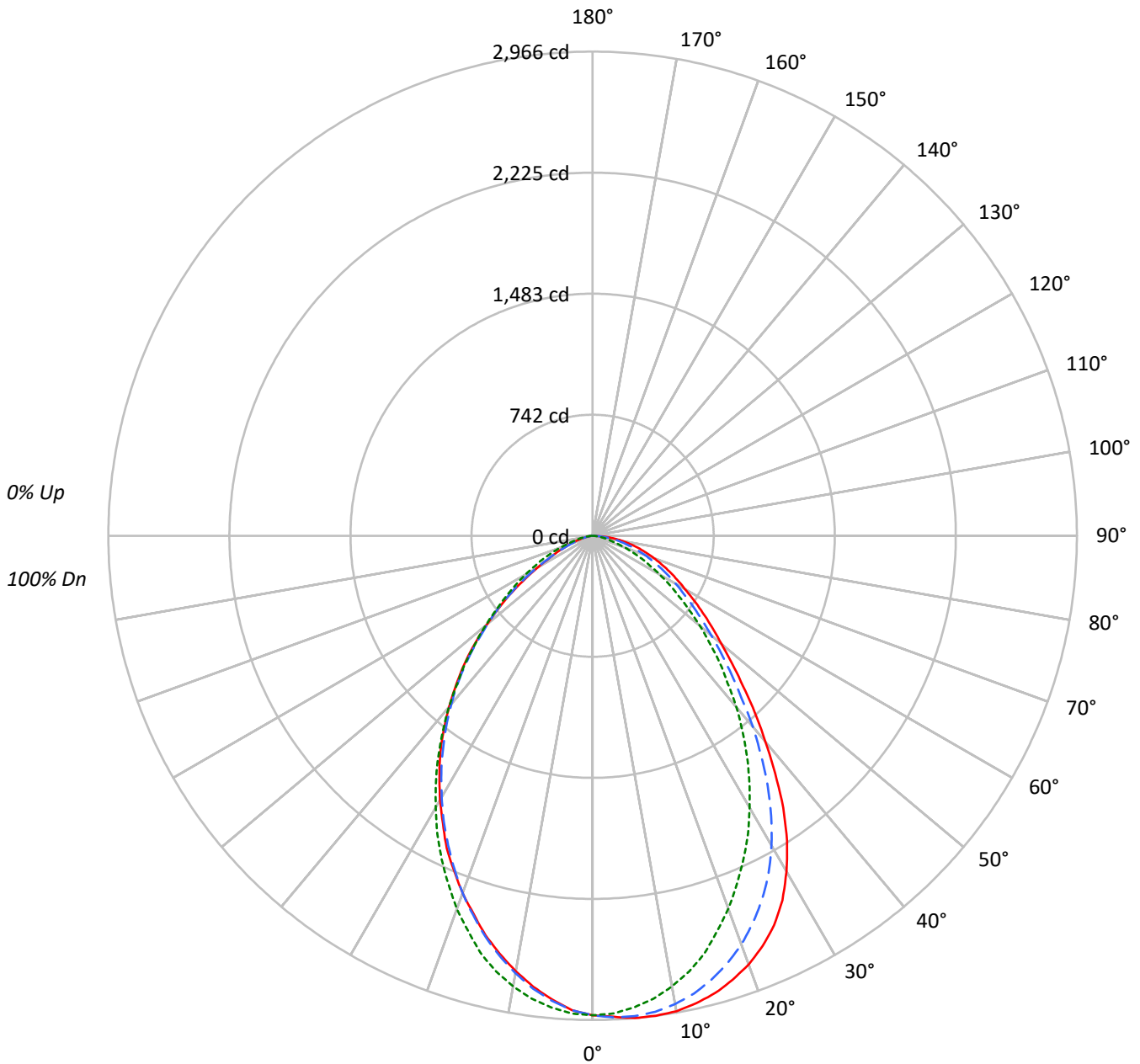
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252524

CATALOG NUMBER: LE\_6B60D010R EC6B60709027 6LBLWW1H

### Luminous Intensity Polar Plot





TEST NUMBER: P252524

CATALOG NUMBER: LE\_6B60D010R EC6B60709027 6LBLWW1H

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

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

	0°	90°	180°
0°	191618	191618	191618
5°	194217	189947	186738
10°	195926	185657	179437
15°	195899	178818	171098
20°	194009	168792	161711
25°	189400	157395	152112
30°	178849	144746	140753
35°	162124	131253	129629
40°	140012	116728	116387
45°	120054	101620	102376
50°	104338	86942	85704
55°	93725	73308	68678
60°	85178	61744	50561
65°	79980	51005	37142
70°	76262	39676	27239
75°	73000	28786	18502
80°	68980	19912	12248
85°	61082	12276	6063



TEST NUMBER: P252524

CATALOG NUMBER: LE\_6B60D010R EC6B60709027 6LBLWW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.7	5.3
10°-20°	752.5	14.5
20°-30°	1044.6	20.1
30°-40°	1082.0	20.8
40°-50°	889.2	17.1
50°-60°	611.1	11.7
60°-70°	351.3	6.7
70°-80°	161.5	3.1
80°-90°	39.3	0.8
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°	2071.8	39.8
0°-40°	3153.9	60.6
0°-60°	4654.1	89.4
0°-90°	5206.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5206.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2937	2937	2937	2937	2937	
5°	2966	2953	2900	2860	2851	283
15°	2900	2815	2648	2541	2533	817
25°	2631	2456	2186	2093	2113	1204
35°	2036	1868	1648	1599	1628	1262
45°	1301	1203	1101	1089	1110	1013
55°	824	746	644	608	604	742
65°	518	453	330	232	241	516
75°	290	228	114	73	73	306
85°	82	57	16	8	8	92
90°	0	0	0	0	0	



TEST NUMBER: P252524

CATALOG NUMBER: LE\_6B60D010R EC6B60709027 6LBLWW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1
2.5°	2949.4	2973.8	2957.5	2953.4	2961.6	2961.6	2961.6	2949.4	2957.5	2945.2	2953.4
5°	2965.6	2986.0	2969.8	2961.6	2969.8	2973.8	2961.6	2953.4	2965.6	2949.4	2953.4
7.5°	2965.6	2986.0	2969.8	2965.6	2969.8	2969.8	2965.6	2949.4	2957.5	2941.1	2941.1
10°	2957.5	2973.8	2957.5	2949.4	2953.4	2949.4	2949.4	2928.9	2933.0	2912.6	2912.6
12.5°	2933.0	2953.4	2933.0	2924.9	2924.9	2924.9	2912.6	2896.2	2900.4	2875.9	2871.9
15°	2900.4	2916.8	2896.2	2888.1	2888.1	2884.1	2875.9	2851.4	2851.4	2827.0	2814.8
17.5°	2851.4	2867.8	2851.4	2839.2	2835.1	2827.0	2818.8	2794.4	2786.1	2757.6	2745.4
20°	2794.4	2806.5	2790.2	2778.0	2769.9	2761.6	2745.4	2720.9	2712.8	2684.1	2663.8
22.5°	2720.9	2737.2	2712.8	2700.5	2692.4	2680.1	2663.8	2639.2	2627.1	2590.4	2565.9
25°	2631.1	2639.2	2618.9	2606.6	2590.4	2582.2	2570.0	2537.4	2525.1	2484.2	2455.8
27.5°	2516.9	2525.1	2500.6	2492.5	2472.0	2463.9	2447.6	2419.0	2402.8	2361.9	2333.4
30°	2374.1	2382.2	2366.0	2353.8	2337.5	2321.1	2308.9	2280.4	2255.9	2215.0	2190.6
32.5°	2215.0	2227.2	2211.0	2194.6	2166.1	2170.1	2149.8	2121.2	2100.9	2064.1	2035.6
35°	2035.6	2043.8	2023.4	2019.2	2002.9	1986.6	1966.2	1945.9	1933.6	1892.8	1868.4
37.5°	1835.6	1856.1	1835.6	1819.4	1811.2	1799.0	1786.8	1758.1	1750.0	1725.5	1692.9
40°	1644.0	1656.2	1644.0	1627.6	1615.4	1615.4	1599.1	1582.8	1562.4	1537.9	1525.6
42.5°	1472.6	1464.5	1460.4	1452.2	1435.9	1431.9	1427.8	1407.4	1395.1	1370.6	1350.2
45°	1301.2	1305.4	1297.2	1293.1	1280.9	1272.8	1264.6	1248.2	1244.1	1219.8	1203.4
47.5°	1158.5	1154.5	1146.2	1146.2	1138.1	1130.0	1121.8	1109.6	1105.5	1085.1	1068.8
50°	1028.0	1032.1	1028.0	1023.9	1011.6	1007.6	999.4	991.2	983.1	962.8	946.4
52.5°	921.9	917.9	913.8	913.8	901.5	897.5	889.2	881.1	873.0	852.6	840.4
55°	824.0	824.0	820.0	815.9	803.6	799.5	795.5	787.2	775.1	758.8	746.5
57.5°	734.2	734.2	730.2	726.1	718.0	718.0	709.8	701.6	693.5	677.1	660.9
60°	652.8	656.8	652.8	648.6	640.5	640.5	636.4	624.1	620.0	599.6	587.4
62.5°	583.4	583.4	583.4	579.2	575.1	567.0	567.0	554.8	546.6	534.4	518.1
65°	518.1	518.1	518.1	514.0	505.9	501.8	497.6	489.5	481.4	469.1	452.8
67.5°	456.9	456.9	456.9	452.8	444.6	440.6	436.5	432.4	420.1	407.9	391.6
70°	399.8	399.8	395.8	391.6	387.5	383.5	379.4	371.2	363.0	346.8	334.5
72.5°	342.6	342.6	342.6	334.5	330.4	330.4	322.2	318.1	310.0	293.8	281.5
75°	289.6	285.5	285.5	281.5	277.4	273.4	269.2	265.1	252.9	244.8	228.5
77.5°	236.6	236.6	232.5	228.5	228.5	224.4	220.2	212.1	208.0	195.8	183.6
80°	183.6	183.6	183.6	183.6	179.5	175.4	175.4	167.2	163.1	150.9	142.8
82.5°	138.8	134.6	134.6	134.6	130.5	126.5	126.5	122.4	118.2	110.1	102.0
85°	81.6	77.5	77.5	77.5	73.4	73.4	69.4	69.4	65.2	57.1	57.1
87.5°	24.5	24.5	28.5	28.5	24.5	24.5	24.5	24.5	24.5	20.4	20.4
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: P252524

CATALOG NUMBER: LE\_6B60D010R EC6B60709027 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1
2.5°	2945.2	2957.5	2941.1	2937.1	2953.4	2945.2	2941.1	2933.0	2937.1	2928.9	2916.8
5°	2941.1	2957.5	2937.1	2924.9	2945.2	2933.0	2924.9	2916.8	2916.8	2900.4	2892.2
7.5°	2928.9	2937.1	2916.8	2904.5	2916.8	2904.5	2896.2	2884.1	2880.0	2859.6	2847.4
10°	2896.2	2904.5	2880.0	2863.6	2875.9	2859.6	2847.4	2835.1	2827.0	2802.5	2786.1
12.5°	2851.4	2855.5	2827.0	2806.5	2814.8	2802.5	2782.1	2765.8	2757.6	2733.1	2712.8
15°	2790.2	2794.4	2761.6	2733.1	2741.2	2725.0	2700.5	2684.1	2672.0	2647.5	2618.9
17.5°	2716.9	2712.8	2676.0	2647.5	2651.5	2631.1	2606.6	2582.2	2565.9	2537.4	2516.9
20°	2635.2	2623.0	2582.2	2549.5	2553.6	2529.1	2500.6	2476.1	2455.8	2431.2	2402.8
22.5°	2533.2	2516.9	2480.2	2439.4	2443.5	2423.1	2382.2	2361.9	2341.5	2308.9	2284.4
25°	2423.1	2398.6	2361.9	2321.1	2321.1	2296.6	2264.0	2239.5	2219.1	2186.5	2158.0
27.5°	2292.6	2280.4	2231.4	2198.8	2194.6	2170.1	2141.6	2113.1	2088.6	2060.0	2031.5
30°	2149.8	2129.4	2092.6	2056.0	2047.8	2027.4	1998.9	1966.2	1949.9	1921.4	1896.9
32.5°	1998.9	1978.5	1937.6	1901.0	1896.9	1880.5	1856.1	1823.5	1807.1	1786.8	1770.4
35°	1827.5	1819.4	1778.6	1750.0	1750.0	1733.8	1709.2	1680.6	1668.4	1648.0	1627.6
37.5°	1664.4	1652.1	1615.4	1590.9	1590.9	1570.5	1546.0	1533.9	1521.6	1505.2	1493.0
40°	1493.0	1484.9	1456.2	1431.9	1435.9	1419.6	1403.2	1387.0	1378.8	1370.6	1358.4
42.5°	1333.9	1325.8	1305.4	1285.0	1285.0	1272.8	1256.4	1244.1	1236.0	1223.8	1219.8
45°	1191.1	1178.9	1162.6	1142.2	1142.2	1130.0	1121.8	1113.6	1109.6	1101.4	1089.1
47.5°	1052.5	1044.2	1028.0	1007.6	1007.6	1007.6	991.2	979.0	979.0	970.9	966.8
50°	934.1	921.9	909.6	893.4	893.4	885.2	873.0	860.8	860.8	856.6	848.5
52.5°	824.0	815.9	799.5	783.2	783.2	775.1	762.9	758.8	754.6	742.4	738.4
55°	730.2	722.0	709.8	689.4	685.4	681.2	669.0	660.9	656.8	644.5	644.5
57.5°	644.5	636.4	616.0	603.8	599.6	591.5	579.2	571.1	567.0	558.9	550.8
60°	571.1	558.9	542.5	526.2	522.1	514.0	501.8	493.6	489.5	473.2	465.0
62.5°	501.8	489.5	473.2	456.9	452.8	444.6	428.4	420.1	412.0	395.8	387.5
65°	436.5	424.2	407.9	391.6	383.5	379.4	363.0	350.9	342.6	330.4	314.1
67.5°	375.2	363.0	346.8	326.4	326.4	314.1	301.9	289.6	277.4	265.1	252.9
70°	318.1	306.0	289.6	273.4	269.2	261.1	248.9	232.5	224.4	208.0	195.8
72.5°	265.1	252.9	236.6	220.2	216.2	208.0	195.8	179.5	167.2	155.0	142.8
75°	216.2	204.0	187.6	175.4	171.4	163.1	150.9	134.6	122.4	114.2	102.0
77.5°	171.4	159.1	146.9	134.6	130.5	122.4	110.1	102.0	89.8	81.6	69.4
80°	130.5	122.4	110.1	102.0	97.9	89.8	81.6	69.4	61.2	53.0	49.0
82.5°	93.9	85.6	77.5	65.2	65.2	57.1	53.0	44.9	36.8	32.6	28.5
85°	53.0	44.9	40.8	36.8	32.6	32.6	28.5	24.5	20.4	16.4	16.4
87.5°	16.4	16.4	12.2	12.2	12.2	12.2	8.1	8.1	8.1	8.1	8.1
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: P252524

CATALOG NUMBER: LE\_6B60D010R EC6B60709027 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1
2.5°	2916.8	2920.8	2912.6	2920.8	2912.6	2916.8	2908.5	2916.8	2908.5	2916.8	2900.4
5°	2888.1	2888.1	2875.9	2884.1	2875.9	2880.0	2863.6	2867.8	2859.6	2867.8	2851.4
7.5°	2839.2	2843.2	2822.9	2831.0	2818.8	2818.8	2806.5	2810.6	2798.4	2802.5	2790.2
10°	2782.1	2778.0	2757.6	2765.8	2749.5	2749.5	2737.2	2737.2	2720.9	2725.0	2708.6
12.5°	2700.5	2696.4	2672.0	2680.1	2663.8	2663.8	2651.5	2651.5	2635.2	2643.4	2627.1
15°	2606.6	2602.6	2578.1	2582.2	2565.9	2565.9	2549.5	2553.6	2541.4	2549.5	2533.2
17.5°	2500.6	2496.5	2472.0	2476.1	2455.8	2459.9	2447.6	2443.5	2435.4	2439.4	2427.1
20°	2390.5	2382.2	2357.9	2361.9	2353.8	2341.5	2333.4	2337.5	2329.2	2337.5	2325.2
22.5°	2276.2	2259.9	2239.5	2239.5	2231.4	2231.4	2219.1	2227.2	2211.0	2223.2	2215.0
25°	2145.8	2133.5	2117.1	2125.4	2109.0	2109.0	2096.8	2100.9	2092.6	2100.9	2092.6
27.5°	2019.2	2011.1	1986.6	1994.8	1982.5	1986.6	1974.4	1978.5	1974.4	1982.5	1974.4
30°	1884.6	1880.5	1864.2	1864.2	1860.1	1856.1	1852.0	1852.0	1847.9	1860.1	1852.0
32.5°	1758.1	1746.0	1729.6	1741.9	1721.5	1733.8	1725.5	1733.8	1725.5	1733.8	1729.6
35°	1627.6	1623.5	1603.1	1607.2	1603.1	1603.1	1599.1	1599.1	1599.1	1611.4	1611.4
37.5°	1489.0	1484.9	1472.6	1476.8	1468.5	1464.5	1464.5	1472.6	1472.6	1480.8	1480.8
40°	1354.4	1358.4	1346.1	1346.1	1342.1	1342.1	1342.1	1350.2	1346.1	1354.4	1350.2
42.5°	1219.8	1219.8	1207.5	1211.5	1207.5	1211.5	1211.5	1219.8	1219.8	1223.8	1219.8
45°	1093.2	1093.2	1089.1	1093.2	1085.1	1089.1	1085.1	1093.2	1089.1	1093.2	1093.2
47.5°	966.8	966.8	966.8	962.8	962.8	962.8	962.8	962.8	958.6	966.8	962.8
50°	848.5	852.6	848.5	848.5	844.4	848.5	844.4	844.4	836.2	840.4	840.4
52.5°	742.4	742.4	734.2	734.2	734.2	730.2	730.2	730.2	726.1	726.1	718.0
55°	640.5	640.5	632.2	632.2	628.2	624.1	620.0	620.0	607.9	607.9	595.6
57.5°	546.6	542.5	530.2	530.2	522.1	518.1	514.0	509.9	501.8	493.6	489.5
60°	461.0	452.8	444.6	440.6	432.4	424.2	416.1	407.9	399.8	395.8	391.6
62.5°	379.4	367.1	359.0	354.9	346.8	334.5	326.4	318.1	310.0	306.0	297.8
65°	306.0	293.8	281.5	277.4	269.2	261.1	248.9	240.6	232.5	228.5	228.5
67.5°	240.6	228.5	212.1	212.1	204.0	195.8	187.6	179.5	175.4	179.5	179.5
70°	179.5	171.4	159.1	155.0	146.9	138.8	134.6	134.6	134.6	138.8	134.6
72.5°	134.6	122.4	114.2	110.1	106.0	102.0	102.0	102.0	97.9	102.0	102.0
75°	93.9	85.6	77.5	77.5	73.4	73.4	73.4	73.4	73.4	73.4	73.4
77.5°	65.2	57.1	53.0	53.0	53.0	49.0	49.0	49.0	49.0	49.0	49.0
80°	40.8	40.8	36.8	36.8	32.6	32.6	32.6	32.6	32.6	32.6	32.6
82.5°	24.5	24.5	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
85°	12.2	12.2	12.2	12.2	12.2	8.1	8.1	8.1	8.1	8.1	8.1
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: P252524

CATALOG NUMBER: LE\_6B60D010R EC6B60709027 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1	2937.1
2.5°	2900.4	2912.6	2896.2	2908.5	2904.5	2900.4	2892.2	2908.5
5°	2851.4	2855.5	2839.2	2855.5	2851.4	2843.2	2835.1	2851.4
7.5°	2782.1	2794.4	2773.9	2790.2	2786.1	2778.0	2769.9	2786.1
10°	2704.6	2716.9	2700.5	2712.8	2712.8	2704.6	2692.4	2708.6
12.5°	2618.9	2627.1	2610.8	2627.1	2623.0	2614.9	2610.8	2623.0
15°	2525.1	2537.4	2521.0	2533.2	2529.1	2525.1	2521.0	2533.2
17.5°	2423.1	2435.4	2423.1	2435.4	2435.4	2423.1	2419.0	2427.1
20°	2321.1	2329.2	2317.0	2329.2	2325.2	2325.2	2317.0	2329.2
22.5°	2206.9	2219.1	2211.0	2219.1	2215.0	2215.0	2211.0	2219.1
25°	2092.6	2104.9	2092.6	2104.9	2100.9	2100.9	2092.6	2113.1
27.5°	1978.5	1986.6	1974.4	1990.8	1986.6	1978.5	1982.5	1986.6
30°	1856.1	1864.2	1856.1	1868.4	1868.4	1868.4	1860.1	1868.4
32.5°	1733.8	1746.0	1733.8	1746.0	1741.9	1741.9	1737.8	1746.0
35°	1611.4	1615.4	1607.2	1619.5	1619.5	1623.5	1615.4	1627.6
37.5°	1484.9	1489.0	1484.9	1489.0	1497.1	1484.9	1493.0	1497.1
40°	1354.4	1362.5	1358.4	1362.5	1362.5	1366.6	1362.5	1366.6
42.5°	1223.8	1232.0	1223.8	1236.0	1232.0	1232.0	1236.0	1236.0
45°	1089.1	1101.4	1093.2	1101.4	1105.5	1101.4	1101.4	1109.6
47.5°	962.8	970.9	966.8	970.9	970.9	970.9	970.9	979.0
50°	836.2	840.4	840.4	844.4	844.4	848.5	840.4	844.4
52.5°	709.8	718.0	718.0	718.0	713.9	718.0	718.0	718.0
55°	595.6	599.6	591.5	599.6	599.6	595.6	595.6	603.8
57.5°	485.4	485.4	485.4	485.4	485.4	481.4	485.4	485.4
60°	383.5	387.5	383.5	383.5	383.5	383.5	379.4	387.5
62.5°	297.8	297.8	293.8	297.8	297.8	297.8	301.9	301.9
65°	232.5	236.6	232.5	236.6	236.6	236.6	236.6	240.6
67.5°	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6
70°	138.8	138.8	138.8	142.8	138.8	138.8	138.8	142.8
72.5°	102.0	102.0	102.0	102.0	102.0	102.0	106.0	106.0
75°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
77.5°	49.0	49.0	49.0	53.0	49.0	53.0	49.0	49.0
80°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
82.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
85°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
87.5°	8.1	8.1	8.1	8.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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















(END OF REPORT)