

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: P252420

Luminaire Tested: **LE\_6B60D010R EC6B60709027 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60709027 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5545.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

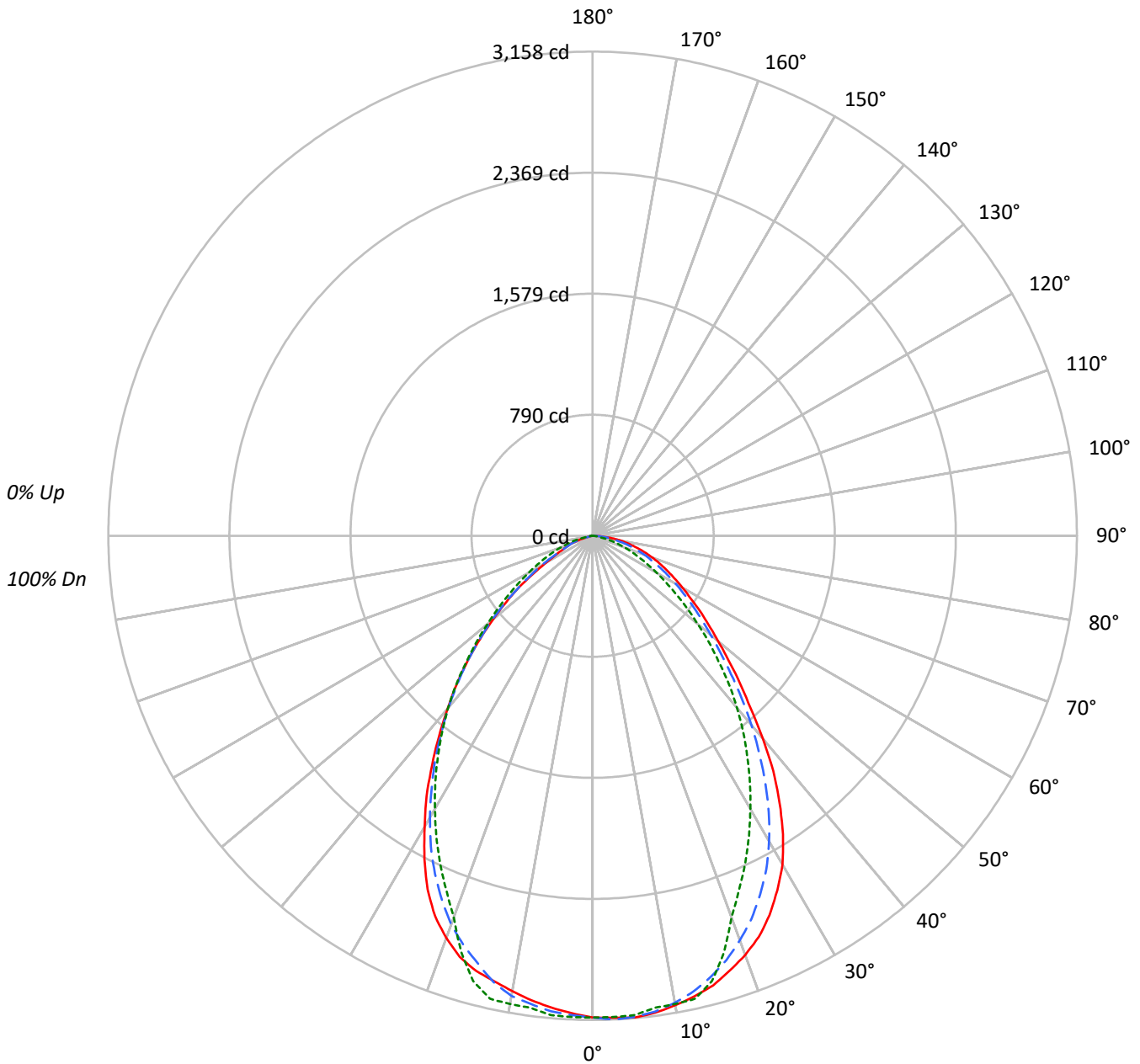
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

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

	0°	90°	180°
0°	204980	204980	204980
5°	206561	205494	202285
10°	205975	205432	199761
15°	205044	203113	198432
20°	201979	183851	193766
25°	196505	169482	183281
30°	186586	154923	165063
35°	169315	140062	145263
40°	146996	124759	125100
45°	125369	107294	106159
50°	108500	90697	85724
55°	97001	75651	66369
60°	88388	62827	44729
65°	82512	51653	33375
70°	78608	42041	28021
75°	74058	29845	9276
80°	70558	15329	3043
85°	58013	9132	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.7	5.4
10°-20°	829.8	15.0
20°-30°	1145.4	20.7
30°-40°	1165.6	21.0
40°-50°	936.7	16.9
50°-60°	622.9	11.2
60°-70°	354.9	6.4
70°-80°	159.4	2.9
80°-90°	33.6	0.6
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°	2271.9	41.0
0°-40°	3437.5	62.0
0°-60°	4997.1	90.1
0°-90°	5545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5545.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3142	3142	3142	3142	3142	
5°	3154	3150	3138	3113	3089	299
15°	3036	2979	3007	2889	2938	854
25°	2730	2583	2354	2432	2546	1251
35°	2126	1963	1759	1791	1824	1321
45°	1359	1277	1163	1151	1151	1054
55°	853	796	665	592	584	766
65°	534	477	335	216	216	532
75°	294	245	118	49	37	314
85°	78	53	12	4	0	92
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°	3141.9	<i>3141.9</i>	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	<i>3145.9</i>	<i>3162.2</i>	<i>3158.1</i>	<i>3154.1</i>	<i>3158.1</i>	<i>3154.1</i>	<i>3145.9</i>	<i>3145.9</i>	<i>3137.8</i>	<i>3137.8</i>	<i>3158.1</i>
5°	3154.1	<i>3162.2</i>	3158.1	3154.1	3154.1	3158.1	3141.9	3141.9	3133.6	3129.6	3150.0
7.5°	3137.8	<i>3150.0</i>	3141.9	3141.9	3137.8	3141.9	3125.5	3125.5	3113.2	3109.2	3129.6
10°	3109.2	<i>3125.5</i>	3117.4	3117.4	3117.4	3109.2	3101.0	3097.0	3084.8	3080.6	3092.9
12.5°	3076.5	<i>3088.8</i>	3084.8	3076.5	3076.5	3076.5	3060.2	3056.1	3039.9	3031.6	3043.9
15°	3035.8	<i>3043.9</i>	3039.9	3035.8	3027.6	3027.6	3011.2	3003.1	2986.8	2970.5	2978.6
17.5°	2974.5	<i>2986.8</i>	2978.6	2974.5	2962.2	2962.2	2946.0	2937.9	2913.4	2897.0	2901.1
20°	2909.2	<i>2913.4</i>	2909.2	2901.1	2888.9	2884.8	2868.5	2852.1	2831.8	2811.4	2807.2
22.5°	2831.8	<i>2835.9</i>	2823.6	2815.4	2803.1	2799.1	2778.8	2766.5	2733.8	2709.4	2705.2
25°	2729.8	<i>2733.8</i>	2733.8	2713.4	2705.2	2697.1	2676.6	2656.2	2627.8	2595.1	2582.9
27.5°	2607.4	<i>2619.6</i>	2611.4	2591.0	2574.6	2570.6	2550.2	2533.9	2497.1	2468.6	2452.2
30°	2476.8	<i>2472.6</i>	2468.6	2456.4	2431.9	2427.8	2407.4	2387.0	2358.4	2321.8	2301.2
32.5°	2309.5	<i>2309.5</i>	2305.4	2293.1	2268.6	2260.5	2244.1	2219.8	2187.0	2158.5	2138.1
35°	2125.9	<i>2129.9</i>	2125.9	2101.4	2085.0	2076.9	2068.8	2040.1	2011.6	1979.0	1962.6
37.5°	1934.1	<i>1921.9</i>	1925.9	1905.5	1885.1	1893.2	1868.8	1856.5	1823.9	1799.4	1783.1
40°	1726.0	<i>1734.1</i>	1717.9	1709.6	1697.4	1685.1	1685.1	1664.8	1648.5	1619.9	1611.8
42.5°	1522.0	<i>1534.2</i>	1530.1	1522.0	1505.6	1509.8	1489.4	1481.1	1460.8	1448.5	1436.2
45°	1358.8	<i>1358.8</i>	1358.8	1350.6	1346.5	1338.4	1326.1	1313.9	1301.6	1285.2	1277.1
47.5°	1199.6	<i>1199.6</i>	1203.8	1195.5	1187.4	1183.2	1175.1	1175.1	1154.8	1138.4	1130.2
50°	1069.0	<i>1069.0</i>	1069.0	1060.9	1052.8	1052.8	1044.5	1036.4	1024.1	1011.9	1003.8
52.5°	950.8	<i>950.8</i>	950.8	942.5	938.5	934.4	930.2	926.2	909.9	901.8	893.6
55°	852.8	<i>848.8</i>	848.8	844.6	836.5	836.5	832.4	824.2	812.0	799.8	795.6
57.5°	754.9	<i>759.0</i>	754.9	754.9	746.8	746.8	738.5	734.5	722.2	714.0	705.9
60°	677.4	<i>677.4</i>	677.4	673.2	665.1	669.1	661.0	656.9	644.8	632.5	624.2
62.5°	599.8	<i>603.9</i>	603.9	599.8	591.6	591.6	587.6	583.5	571.2	559.0	546.8
65°	534.5	<i>534.5</i>	534.5	530.5	526.4	526.4	522.2	518.2	506.0	489.6	477.4
67.5°	473.4	<i>469.2</i>	469.2	469.2	465.1	461.1	457.0	452.9	440.6	428.4	412.1
70°	412.1	<i>412.1</i>	412.1	408.0	399.9	404.0	399.9	395.8	383.5	371.2	359.1
72.5°	355.0	<i>355.0</i>	350.9	346.9	346.9	342.8	342.8	338.6	326.4	310.1	297.9
75°	293.8	<i>293.8</i>	293.8	293.8	285.6	289.8	281.5	277.5	269.2	257.0	244.9
77.5°	240.8	<i>240.8</i>	240.8	236.6	232.6	232.6	228.5	224.4	212.1	204.0	187.8
80°	187.8	<i>187.8</i>	187.8	187.8	183.6	179.5	175.5	171.4	163.2	151.0	138.8
82.5°	138.8	<i>138.8</i>	134.6	134.6	134.6	130.6	126.5	122.4	114.2	106.1	97.9
85°	77.5	<i>81.6</i>	81.6	73.5	77.5	73.5	73.5	65.2	65.2	57.1	53.0
87.5°	28.5	<i>24.5</i>	24.5	24.5	24.5	24.5	24.5	20.4	20.4	20.4	16.4
90°	0.0	<i>0.0</i>	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°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3141.9	3137.8	3154.1	3154.1	3129.6	3141.9	3145.9	3137.8	3137.8	3141.9	3129.6
5°	3133.6	3125.5	3141.9	3145.9	3121.5	3133.6	3137.8	3129.6	3133.6	3137.8	3121.5
7.5°	3105.1	3105.1	3117.4	3121.5	3097.0	3109.2	3109.2	3101.0	3105.1	3105.1	3092.9
10°	3076.5	3064.4	3076.5	3076.5	3056.1	3060.2	3068.4	3064.4	3080.6	3101.0	3101.0
12.5°	3023.5	3011.2	3031.6	3031.6	3019.4	3035.8	3056.1	3068.4	3084.8	3092.9	3068.4
15°	2958.2	2962.2	2999.0	3027.6	3015.4	3039.9	3060.2	3052.1	3031.6	3007.2	2970.5
17.5°	2872.5	2860.2	2893.0	2909.2	2893.0	2901.1	2917.4	2901.1	2868.5	2848.0	2799.1
20°	2774.6	2742.0	2742.0	2733.8	2705.2	2705.2	2701.1	2672.6	2660.4	2648.1	2627.8
22.5°	2664.5	2627.8	2615.5	2591.0	2566.5	2562.5	2550.2	2521.6	2505.4	2497.1	2472.6
25°	2538.0	2505.4	2484.9	2460.4	2423.8	2415.5	2403.2	2374.8	2366.6	2354.4	2334.0
27.5°	2407.4	2366.6	2338.0	2313.5	2280.9	2276.9	2252.4	2231.9	2215.6	2207.5	2191.1
30°	2256.4	2211.5	2191.1	2158.5	2134.0	2125.9	2105.5	2076.9	2064.6	2056.5	2044.2
32.5°	2089.1	2052.4	2032.0	2003.4	1970.8	1974.9	1950.4	1925.9	1917.8	1909.6	1897.4
35°	1925.9	1889.1	1864.8	1840.2	1819.9	1811.6	1795.4	1774.9	1762.8	1758.6	1750.5
37.5°	1746.4	1717.9	1697.4	1672.9	1656.6	1648.5	1640.2	1619.9	1611.8	1611.8	1595.4
40°	1570.9	1546.5	1530.1	1517.9	1497.5	1493.4	1485.2	1473.0	1468.9	1464.9	1452.6
42.5°	1411.8	1379.1	1366.9	1358.8	1346.5	1338.4	1334.2	1326.1	1322.0	1318.0	1305.8
45°	1260.9	1232.2	1220.0	1211.9	1199.6	1195.5	1191.5	1179.2	1171.0	1162.9	1158.8
47.5°	1113.9	1093.5	1089.5	1069.0	1060.9	1052.8	1044.5	1036.4	1032.4	1028.2	1011.9
50°	987.4	975.2	954.8	942.5	934.4	930.2	914.0	901.8	897.6	893.6	881.4
52.5°	873.2	856.9	844.6	824.2	820.1	812.0	803.9	787.5	779.4	775.2	763.0
55°	771.1	759.0	742.6	726.2	714.0	710.0	697.8	681.4	673.2	665.1	656.9
57.5°	685.5	665.1	648.8	632.5	624.2	612.0	599.8	591.6	579.4	567.1	554.9
60°	603.9	587.6	567.1	550.9	542.6	534.5	518.2	506.0	493.8	481.5	469.2
62.5°	526.4	510.0	489.6	473.4	465.1	457.0	440.6	428.4	416.2	404.0	387.6
65°	457.0	440.6	424.4	408.0	399.9	391.8	375.4	359.1	346.9	334.6	318.2
67.5°	399.9	379.5	363.1	346.9	338.6	330.5	314.1	302.0	285.6	273.4	257.0
70°	338.6	322.4	310.1	293.8	285.6	277.5	261.1	244.9	232.6	220.4	204.0
72.5°	285.6	265.2	253.0	236.6	228.5	224.4	208.1	195.9	183.6	167.2	155.0
75°	228.5	212.1	195.9	183.6	175.5	171.4	155.0	142.8	130.6	118.4	106.1
77.5°	175.5	163.2	146.9	134.6	126.5	122.4	106.1	93.9	81.6	73.5	61.2
80°	130.6	114.2	106.1	93.9	89.8	81.6	73.5	61.2	53.0	40.8	32.6
82.5°	89.8	77.5	69.4	61.2	57.1	53.0	44.9	36.8	28.5	24.5	20.4
85°	49.0	40.8	36.8	32.6	28.5	28.5	24.5	20.4	16.4	12.2	8.1
87.5°	16.4	12.2	12.2	12.2	12.2	8.1	8.1	8.1	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3137.8	3137.8	3137.8	3133.6	3133.6	3133.6	3129.6	3145.9	3129.6	3125.5	3137.8
5°	3133.6	3125.5	3125.5	3125.5	3125.5	3121.5	3117.4	3125.5	3113.2	3109.2	3109.2
7.5°	3109.2	3105.1	3105.1	3101.0	3097.0	3092.9	3088.8	3092.9	3080.6	3076.5	3076.5
10°	3113.2	3105.1	3105.1	3092.9	3084.8	3072.5	3060.2	3064.4	3048.0	3035.8	3035.8
12.5°	3064.4	3043.9	3031.6	3019.4	3011.2	3007.2	2990.9	2999.0	2982.8	2978.6	2978.6
15°	2954.1	2929.6	2909.2	2901.1	2901.1	2893.0	2880.8	2897.0	2888.9	2893.0	2913.4
17.5°	2782.8	2770.5	2758.2	2754.2	2758.2	2766.5	2774.6	2799.1	2799.1	2811.4	2831.8
20°	2631.8	2623.6	2631.8	2631.8	2635.9	2652.2	2668.5	2688.9	2697.1	2709.4	2737.9
22.5°	2484.9	2484.9	2493.1	2505.4	2501.2	2529.8	2533.9	2570.6	2570.6	2595.1	2619.6
25°	2342.1	2342.1	2350.2	2354.4	2362.5	2378.9	2395.1	2423.8	2431.9	2456.4	2476.8
27.5°	2203.4	2199.2	2199.2	2203.4	2211.5	2231.9	2240.1	2272.8	2285.0	2301.2	2321.8
30°	2048.4	2044.2	2052.4	2060.5	2056.5	2076.9	2089.1	2113.6	2121.8	2138.1	2154.4
32.5°	1901.4	1901.4	1901.4	1909.6	1909.6	1925.9	1925.9	1954.5	1954.5	1966.8	1983.0
35°	1750.5	1750.5	1754.5	1758.6	1762.8	1766.8	1770.9	1787.1	1791.2	1795.4	1803.5
37.5°	1607.6	1603.6	1607.6	1607.6	1599.5	1615.8	1615.8	1632.1	1619.9	1632.1	1636.2
40°	1460.8	1460.8	1456.6	1456.6	1456.6	1464.9	1456.6	1468.9	1460.8	1468.9	1464.9
42.5°	1309.8	1309.8	1301.6	1309.8	1305.8	1305.8	1305.8	1313.9	1301.6	1309.8	1313.9
45°	1158.8	1154.8	1154.8	1150.6	1150.6	1150.6	1154.8	1154.8	1150.6	1158.8	1158.8
47.5°	1011.9	1007.9	1007.9	1007.9	1007.9	1011.9	999.6	1007.9	999.6	999.6	999.6
50°	885.4	881.4	877.2	873.2	869.1	869.1	865.0	865.0	856.9	852.8	848.8
52.5°	763.0	759.0	750.8	750.8	746.8	742.6	730.4	730.4	718.1	714.0	714.0
55°	652.9	640.6	636.5	628.4	628.4	620.2	612.0	603.9	591.6	583.5	583.5
57.5°	550.9	538.6	530.5	526.4	522.2	514.1	497.8	493.8	477.4	473.4	469.2
60°	461.1	448.9	436.6	428.4	424.4	412.1	395.8	387.6	379.5	367.2	355.0
62.5°	375.4	363.1	346.9	342.8	334.6	322.4	310.1	297.9	289.8	277.5	269.2
65°	302.0	289.8	277.5	269.2	261.1	248.9	236.6	224.4	216.2	212.1	208.1
67.5°	244.9	228.5	216.2	212.1	204.0	195.9	183.6	179.5	171.4	171.4	171.4
70°	191.8	179.5	167.2	163.2	159.1	151.0	142.8	142.8	142.8	142.8	142.8
72.5°	142.8	134.6	122.4	118.4	114.2	110.1	102.0	106.1	102.0	102.0	102.0
75°	89.8	81.6	73.5	69.4	65.2	61.2	57.1	53.0	49.0	44.9	44.9
77.5°	49.0	40.8	36.8	32.6	32.6	28.5	24.5	24.5	20.4	20.4	20.4
80°	28.5	24.5	20.4	16.4	16.4	12.2	12.2	12.2	12.2	8.1	8.1
82.5°	16.4	12.2	8.1	8.1	8.1	8.1	4.1	4.1	4.1	4.1	4.1
85°	8.1	8.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0
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: P252420

CATALOG NUMBER: LE\_6B60D010R EC6B60709027 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3117.4	3129.6	3117.4	3129.6	3129.6	3129.6	3129.6	3117.4
5°	3097.0	3105.1	3092.9	3101.0	3105.1	3101.0	3101.0	3088.8
7.5°	3060.2	3068.4	3056.1	3068.4	3072.5	3068.4	3064.4	3056.1
10°	3023.5	3027.6	3015.4	3023.5	3031.6	3031.6	3027.6	3015.4
12.5°	2966.4	2978.6	2966.4	2974.5	2982.8	2986.8	2986.8	2974.5
15°	2901.1	2921.5	2913.4	2925.6	2937.9	2941.9	2941.9	2937.9
17.5°	2835.9	2856.2	2844.0	2864.4	2876.6	2884.8	2888.9	2880.8
20°	2742.0	2766.5	2758.2	2774.6	2790.9	2803.1	2803.1	2790.9
22.5°	2619.6	2652.2	2648.1	2660.4	2680.8	2684.9	2693.0	2684.9
25°	2484.9	2509.4	2505.4	2517.5	2542.0	2542.0	2546.1	2546.1
27.5°	2329.9	2354.4	2350.2	2358.4	2374.8	2378.9	2382.9	2374.8
30°	2162.6	2174.8	2174.8	2187.0	2199.2	2203.4	2203.4	2191.1
32.5°	1979.0	1995.2	2003.4	1999.4	2011.6	2019.8	2015.6	2015.6
35°	1811.6	1815.8	1819.9	1823.9	1828.0	1836.1	1828.0	1823.9
37.5°	1632.1	1644.4	1636.2	1644.4	1652.5	1648.5	1644.4	1644.4
40°	1468.9	1473.0	1464.9	1473.0	1477.1	1477.1	1477.1	1468.9
42.5°	1305.8	1313.9	1305.8	1313.9	1313.9	1313.9	1313.9	1309.8
45°	1142.5	1150.6	1150.6	1154.8	1154.8	1150.6	1150.6	1150.6
47.5°	991.5	999.6	991.5	999.6	1003.8	995.6	995.6	995.6
50°	848.8	844.6	844.6	848.8	848.8	848.8	848.8	844.6
52.5°	701.9	705.9	705.9	705.9	710.0	705.9	710.0	710.0
55°	575.4	575.4	575.4	579.4	575.4	575.4	579.4	583.5
57.5°	461.1	457.0	452.9	452.9	457.0	452.9	452.9	452.9
60°	355.0	350.9	346.9	346.9	346.9	346.9	346.9	342.8
62.5°	265.2	265.2	265.2	269.2	269.2	269.2	269.2	273.4
65°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	216.2
67.5°	171.4	171.4	171.4	175.5	175.5	175.5	175.5	175.5
70°	142.8	142.8	146.9	142.8	146.9	146.9	146.9	146.9
72.5°	97.9	97.9	97.9	97.9	97.9	93.9	97.9	93.9
75°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	36.8
77.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	0.0	0.0	0.0
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)