

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: P252732

Luminaire Tested: **LE\_6B60D010R EC6B60709027 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60709027 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE 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: 5723.7 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

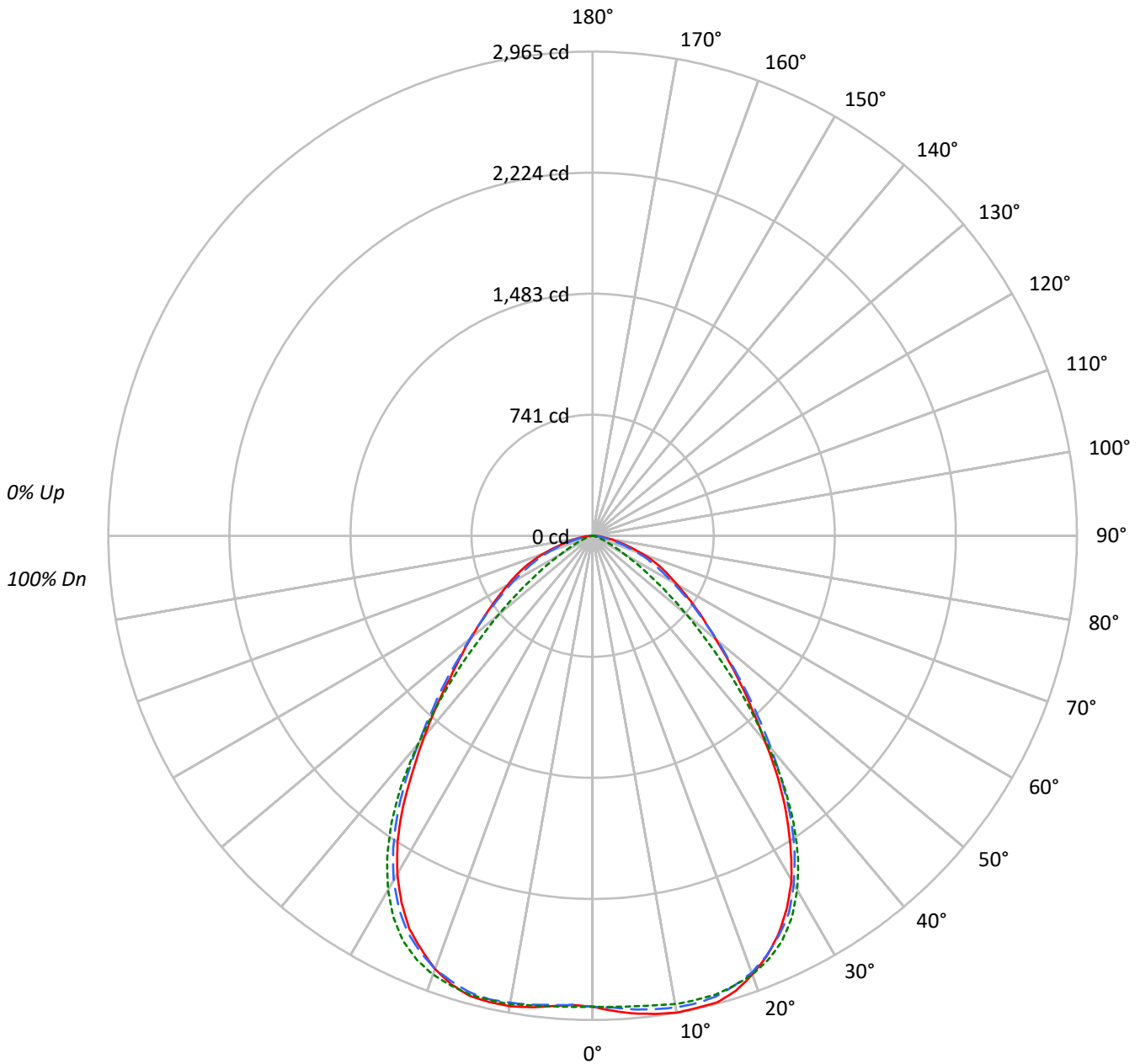
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	98	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68			68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61			61
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54			54
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48			48
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40			40
9	63	51	43	38	62	50	43	38	49	43	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	39	35	33			33

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

	0°	90°	180°
0°	188141	188141	188141
5°	192331	189390	189390
10°	196449	192925	193740
15°	199729	196426	196980
20°	198507	198507	195966
25°	193784	197311	191149
30°	183444	188665	180062
35°	164377	170876	161128
40°	139655	141383	136171
45°	118172	108004	114029
50°	99771	76173	98533
55°	87685	49183	86764
60°	77702	29280	78237
65°	71783	17629	71783
70°	62223	10110	60678
75°	49355	6176	46255
80°	36782	4584	35279
85°	33610	3069	30541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.6	4.9
10°-20°	821.7	14.4
20°-30°	1235.8	21.6
30°-40°	1299.3	22.7
40°-50°	970.6	17.0
50°-60°	604.3	10.6
60°-70°	343.7	6.0
70°-80°	141.5	2.5
80°-90°	29.3	0.5
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°	2335.1	40.8
0°-40°	3634.4	63.5
0°-60°	5209.3	91.0
0°-90°	5723.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5723.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2884	2884	2884	2884	2884	
5°	2937	2912	2892	2884	2892	281
15°	2957	2920	2908	2896	2916	831
25°	2692	2700	2741	2680	2655	1232
35°	2064	2117	2146	2084	2023	1281
45°	1281	1309	1171	1285	1236	992
55°	771	755	432	742	763	693
65°	465	416	114	416	465	458
75°	196	155	24	151	184	213
85°	45	28	4	24	41	50
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°	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8
2.5°	2912.2	2908.2	2912.2	2904.1	2900.1	2900.1	2904.1	2896.0	2891.9	2896.0	2891.9
5°	2936.8	2928.6	2932.8	2928.6	2920.5	2920.5	2924.5	2912.2	2912.2	2916.4	2912.2
7.5°	2953.1	2953.1	2953.1	2944.9	2940.9	2936.8	2944.9	2932.8	2928.6	2928.6	2924.5
10°	2965.4	2961.2	2965.4	2957.1	2949.0	2944.9	2953.1	2944.9	2936.8	2944.9	2932.8
12.5°	2961.2	2961.2	2961.2	2957.1	2949.0	2944.9	2953.1	2940.9	2936.8	2940.9	2932.8
15°	2957.1	2944.9	2949.0	2944.9	2932.8	2932.8	2936.8	2924.5	2916.4	2928.6	2920.5
17.5°	2920.5	2912.2	2916.4	2908.2	2900.1	2896.0	2900.1	2896.0	2887.9	2896.0	2887.9
20°	2859.2	2859.2	2863.4	2855.2	2847.0	2843.0	2851.1	2843.0	2834.8	2847.0	2847.0
22.5°	2785.9	2785.9	2785.9	2781.8	2777.8	2777.8	2777.8	2773.6	2769.5	2777.8	2781.8
25°	2692.0	2688.0	2692.0	2696.1	2692.0	2688.0	2692.0	2692.0	2683.9	2700.2	2700.2
27.5°	2573.8	2573.8	2581.9	2577.9	2577.9	2573.8	2581.9	2581.9	2577.9	2590.1	2602.2
30°	2435.1	2426.9	2435.1	2435.1	2439.1	2439.1	2443.2	2443.2	2443.2	2455.5	2463.6
32.5°	2255.6	2259.6	2271.9	2267.9	2263.8	2276.0	2276.0	2284.1	2288.2	2296.4	2300.5
35°	2063.9	2068.0	2068.0	2072.0	2080.2	2072.0	2092.5	2088.4	2092.5	2108.8	2116.9
37.5°	1860.0	1847.8	1868.1	1860.0	1864.0	1864.0	1872.2	1876.2	1888.5	1908.9	1908.9
40°	1639.8	1643.8	1651.9	1656.0	1660.1	1660.1	1660.1	1672.4	1676.4	1700.9	1696.8
42.5°	1448.0	1448.0	1456.1	1460.2	1460.2	1460.2	1460.2	1472.5	1480.6	1488.8	1497.0
45°	1280.8	1268.5	1276.6	1276.6	1284.9	1280.8	1288.9	1297.1	1301.1	1313.4	1309.2
47.5°	1121.6	1117.6	1121.6	1125.8	1121.6	1125.8	1129.9	1133.9	1138.0	1138.0	1138.0
50°	983.0	983.0	987.1	991.1	991.1	991.1	991.1	995.2	995.2	1003.4	995.2
52.5°	868.8	872.9	872.9	868.8	872.9	872.9	877.0	877.0	872.9	872.9	860.6
55°	770.9	766.9	770.9	766.9	770.9	770.9	766.9	766.9	762.8	758.6	754.6
57.5°	677.1	677.1	677.1	677.1	673.0	677.1	673.0	668.9	668.9	660.8	648.5
60°	595.5	595.5	595.5	595.5	595.5	591.4	595.5	591.4	583.2	575.1	558.8
62.5°	526.1	522.1	526.1	522.1	522.1	518.0	518.0	513.9	505.8	497.6	481.2
65°	465.0	469.1	465.0	465.0	460.9	456.9	456.9	452.8	440.5	432.4	416.0
67.5°	399.8	395.6	395.6	395.6	391.6	391.6	391.6	383.4	375.2	363.0	346.8
70°	326.2	326.2	326.2	322.2	322.2	318.1	318.1	314.1	305.9	297.8	277.4
72.5°	257.0	257.0	257.0	248.8	252.9	248.8	248.8	240.6	236.6	224.4	212.1
75°	195.8	195.8	191.8	191.8	187.6	183.5	183.5	179.5	175.4	167.2	155.0
77.5°	142.8	142.8	142.8	138.6	134.6	130.5	130.5	126.5	122.4	118.2	110.1
80°	97.9	97.9	97.9	97.9	93.9	89.8	89.8	85.6	85.6	81.6	73.4
82.5°	65.2	65.2	65.2	65.2	61.1	61.1	61.1	57.1	53.0	53.0	44.9
85°	44.9	44.9	40.8	40.8	40.8	40.8	36.8	36.8	32.6	28.5	28.5
87.5°	24.5	24.5	24.5	24.5	20.4	20.4	20.4	20.4	16.4	16.4	12.2
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°	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8
2.5°	2904.1	2904.1	2900.1	2887.9	2891.9	2887.9	2891.9	2887.9	2875.6	2887.9	2875.6
5°	2920.5	2924.5	2916.4	2900.1	2904.1	2900.1	2900.1	2896.0	2883.8	2891.9	2883.8
7.5°	2936.8	2932.8	2928.6	2912.2	2916.4	2912.2	2912.2	2904.1	2891.9	2900.1	2887.9
10°	2944.9	2944.9	2936.8	2920.5	2920.5	2916.4	2920.5	2916.4	2900.1	2912.2	2904.1
12.5°	2944.9	2940.9	2940.9	2920.5	2924.5	2920.5	2924.5	2916.4	2904.1	2912.2	2908.2
15°	2932.8	2932.8	2928.6	2908.2	2912.2	2912.2	2916.4	2908.2	2896.0	2908.2	2900.1
17.5°	2908.2	2908.2	2904.1	2887.9	2896.0	2896.0	2900.1	2891.9	2879.6	2887.9	2887.9
20°	2859.2	2863.4	2863.4	2851.1	2859.2	2859.2	2863.4	2859.2	2855.2	2859.2	2851.1
22.5°	2802.1	2810.4	2810.4	2798.1	2806.2	2806.2	2818.5	2814.4	2806.2	2810.4	2806.2
25°	2716.5	2724.6	2732.9	2724.6	2732.9	2732.9	2745.1	2741.0	2732.9	2741.0	2728.8
27.5°	2618.6	2622.8	2630.9	2622.8	2635.0	2630.9	2643.1	2639.0	2626.8	2639.0	2635.0
30°	2480.0	2496.2	2508.5	2496.2	2508.5	2508.5	2516.6	2512.6	2508.5	2504.4	2504.4
32.5°	2325.0	2341.2	2341.2	2337.1	2345.4	2345.4	2349.4	2341.2	2337.1	2341.2	2345.4
35°	2133.2	2141.4	2149.5	2145.5	2149.5	2153.6	2149.5	2153.6	2141.4	2145.5	2145.5
37.5°	1925.2	1933.4	1933.4	1921.1	1929.2	1929.2	1921.1	1921.1	1913.0	1921.1	1904.9
40°	1705.0	1696.8	1700.9	1692.8	1684.6	1684.6	1680.5	1664.1	1656.0	1660.1	1664.1
42.5°	1488.8	1488.8	1476.5	1456.1	1435.8	1435.8	1423.5	1415.4	1399.0	1407.2	1403.1
45°	1305.2	1284.9	1268.5	1235.9	1223.6	1215.5	1195.1	1174.8	1166.5	1170.6	1166.5
47.5°	1129.9	1113.5	1072.8	1027.9	1015.6	1003.4	978.9	954.5	946.2	938.1	938.1
50°	983.0	954.5	909.6	860.6	840.2	819.9	787.2	762.8	746.4	750.5	750.5
52.5°	848.4	815.8	762.8	701.5	677.1	652.6	624.1	595.5	583.2	579.2	579.2
55°	730.1	693.4	640.4	571.0	550.6	522.1	485.4	452.8	436.4	432.4	440.5
57.5°	624.1	591.4	530.2	460.9	436.4	407.9	371.1	342.6	322.2	318.1	322.2
60°	538.4	493.5	440.5	375.2	342.6	318.1	277.4	252.9	232.5	224.4	228.4
62.5°	452.8	412.0	359.0	293.6	269.2	244.8	208.0	179.5	163.1	159.1	163.1
65°	387.5	346.8	297.8	240.6	216.1	191.8	159.1	130.5	118.2	114.2	118.2
67.5°	322.2	285.5	244.8	191.8	171.2	150.9	118.2	97.9	81.6	77.5	81.6
70°	261.0	228.4	187.6	150.9	130.5	114.2	89.8	69.4	57.1	53.0	57.1
72.5°	195.8	171.2	142.8	110.1	97.9	85.6	65.2	49.0	40.8	36.8	40.8
75°	142.8	122.4	102.0	77.5	69.4	61.1	44.9	32.6	28.5	24.5	28.5
77.5°	97.9	85.6	69.4	53.0	44.9	40.8	28.5	24.5	20.4	16.4	16.4
80°	65.2	57.1	44.9	36.8	32.6	28.5	20.4	16.4	12.2	12.2	12.2
82.5°	40.8	32.6	28.5	20.4	16.4	16.4	12.2	8.1	8.1	8.1	8.1
85°	24.5	20.4	16.4	12.2	8.1	8.1	4.1	4.1	4.1	4.1	4.1
87.5°	12.2	8.1	8.1	4.1	4.1	4.1	4.1	4.1	0.0	0.0	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°	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8
2.5°	2883.8	2875.6	2875.6	2879.6	2883.8	2887.9	2879.6	2875.6	2875.6	2887.9	2879.6
5°	2883.8	2879.6	2879.6	2879.6	2887.9	2891.9	2883.8	2879.6	2883.8	2896.0	2891.9
7.5°	2896.0	2887.9	2891.9	2891.9	2896.0	2904.1	2896.0	2891.9	2896.0	2908.2	2900.1
10°	2904.1	2896.0	2900.1	2896.0	2908.2	2912.2	2904.1	2900.1	2904.1	2920.5	2916.4
12.5°	2908.2	2904.1	2904.1	2900.1	2912.2	2916.4	2908.2	2904.1	2908.2	2920.5	2916.4
15°	2900.1	2896.0	2896.0	2896.0	2904.1	2912.2	2900.1	2896.0	2896.0	2908.2	2904.1
17.5°	2883.8	2875.6	2875.6	2875.6	2879.6	2883.8	2871.5	2867.4	2863.4	2875.6	2871.5
20°	2855.2	2847.0	2838.9	2838.9	2843.0	2843.0	2834.8	2822.6	2822.6	2826.6	2818.5
22.5°	2802.1	2798.1	2789.9	2785.9	2794.0	2789.9	2773.6	2761.4	2757.2	2761.4	2753.2
25°	2728.8	2720.6	2716.5	2712.4	2716.5	2712.4	2696.1	2679.8	2679.8	2679.8	2667.6
27.5°	2626.8	2618.6	2614.5	2614.5	2618.6	2610.5	2594.1	2577.9	2569.6	2569.6	2557.5
30°	2496.2	2496.2	2492.1	2488.1	2484.0	2484.0	2459.5	2443.2	2435.1	2439.1	2431.0
32.5°	2337.1	2333.1	2329.0	2316.8	2320.9	2316.8	2296.4	2284.1	2271.9	2263.8	2259.6
35°	2133.2	2133.2	2129.1	2129.1	2129.1	2125.1	2104.6	2092.5	2084.2	2080.2	2068.0
37.5°	1908.9	1904.9	1900.8	1900.8	1900.8	1900.8	1888.5	1876.2	1876.2	1872.2	1864.0
40°	1656.0	1660.1	1664.1	1660.1	1672.4	1684.6	1668.2	1660.1	1656.0	1668.2	1651.9
42.5°	1411.2	1407.2	1427.6	1431.6	1431.6	1452.1	1456.1	1460.2	1456.1	1464.2	1464.2
45°	1174.8	1170.6	1191.0	1199.1	1219.6	1244.0	1256.2	1276.6	1284.9	1293.0	1284.9
47.5°	950.4	966.8	983.0	1003.4	1019.8	1060.5	1085.0	1105.4	1113.5	1125.8	1125.8
50°	762.8	779.0	807.6	823.9	844.4	893.2	934.0	962.6	978.9	991.1	987.1
52.5°	587.4	615.9	652.6	668.9	697.5	754.6	799.5	832.1	852.5	864.8	868.8
55°	452.8	477.2	513.9	538.4	567.0	628.1	685.2	722.0	742.4	758.6	766.9
57.5°	334.5	363.0	403.8	424.2	456.9	526.1	575.1	620.0	644.5	664.9	668.9
60°	244.8	273.2	310.0	334.5	367.1	436.4	493.5	534.4	562.9	579.2	587.4
62.5°	175.4	204.0	240.6	265.1	293.6	354.9	412.0	452.8	481.2	501.8	513.9
65°	126.5	155.0	191.8	212.1	236.6	293.6	346.8	387.5	416.0	440.5	448.6
67.5°	93.9	114.2	146.9	167.2	191.8	236.6	281.5	318.1	346.8	367.1	375.2
70°	69.4	85.6	114.2	126.5	142.8	183.5	220.2	252.9	277.4	293.6	301.9
72.5°	49.0	61.1	81.6	93.9	106.0	138.6	167.2	191.8	208.0	224.4	232.5
75°	32.6	40.8	57.1	65.2	73.4	97.9	118.2	138.6	150.9	163.1	167.2
77.5°	20.4	28.5	40.8	44.9	53.0	65.2	81.6	93.9	102.0	110.1	118.2
80°	12.2	16.4	24.5	28.5	32.6	44.9	53.0	61.1	69.4	77.5	81.6
82.5°	8.1	12.2	16.4	16.4	20.4	24.5	32.6	40.8	44.9	49.0	53.0
85°	4.1	4.1	8.1	8.1	12.2	12.2	16.4	20.4	24.5	28.5	32.6
87.5°	4.1	4.1	4.1	4.1	8.1	8.1	12.2	12.2	12.2	16.4	16.4
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: P252732

CATALOG NUMBER: LE\_6B60D010R EC6B60709027 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8
2.5°	2871.5	2883.8	2871.5	2879.6	2875.6	2875.6	2871.5	2875.6
5°	2883.8	2900.1	2883.8	2896.0	2887.9	2887.9	2887.9	2891.9
7.5°	2896.0	2912.2	2900.1	2912.2	2908.2	2904.1	2904.1	2912.2
10°	2908.2	2920.5	2912.2	2924.5	2920.5	2916.4	2916.4	2924.5
12.5°	2908.2	2924.5	2916.4	2928.6	2924.5	2920.5	2920.5	2924.5
15°	2896.0	2916.4	2904.1	2916.4	2912.2	2908.2	2908.2	2916.4
17.5°	2859.2	2875.6	2867.4	2875.6	2875.6	2871.5	2875.6	2879.6
20°	2810.4	2822.6	2814.4	2822.6	2822.6	2814.4	2818.5	2822.6
22.5°	2741.0	2753.2	2745.1	2753.2	2749.1	2745.1	2745.1	2741.0
25°	2655.4	2671.6	2659.4	2667.6	2659.4	2651.2	2651.2	2655.4
27.5°	2549.2	2561.5	2545.2	2553.4	2545.2	2537.0	2537.0	2533.0
30°	2410.6	2414.6	2402.5	2410.6	2402.5	2398.4	2390.2	2390.2
32.5°	2243.4	2247.5	2235.2	2235.2	2227.0	2227.0	2210.8	2223.0
35°	2047.6	2051.6	2047.6	2043.5	2031.2	2027.2	2023.1	2023.1
37.5°	1843.6	1843.6	1831.4	1827.4	1819.1	1811.0	1815.1	1802.9
40°	1635.6	1631.5	1619.2	1623.4	1619.2	1607.1	1603.0	1598.9
42.5°	1439.9	1439.9	1427.6	1431.6	1423.5	1419.5	1407.2	1411.2
45°	1268.5	1268.5	1256.2	1256.2	1252.2	1240.0	1244.0	1235.9
47.5°	1113.5	1113.5	1109.5	1109.5	1097.2	1093.1	1093.1	1093.1
50°	978.9	978.9	978.9	978.9	974.9	970.8	966.8	970.8
52.5°	864.8	872.9	868.8	868.8	864.8	860.6	856.5	856.5
55°	762.8	766.9	766.9	770.9	766.9	762.8	766.9	762.8
57.5°	673.0	681.1	681.1	681.1	681.1	681.1	677.1	673.0
60°	595.5	599.6	599.6	603.6	603.6	603.6	599.6	599.6
62.5°	518.0	526.1	530.2	530.2	534.4	530.2	530.2	530.2
65°	456.9	465.0	469.1	465.0	469.1	469.1	465.0	465.0
67.5°	383.4	391.6	391.6	391.6	391.6	395.6	391.6	391.6
70°	310.0	318.1	314.1	318.1	318.1	318.1	318.1	318.1
72.5°	236.6	240.6	244.8	244.8	248.8	244.8	244.8	244.8
75°	171.2	179.5	179.5	179.5	179.5	183.5	183.5	183.5
77.5°	122.4	126.5	126.5	130.5	130.5	130.5	130.5	134.6
80°	85.6	85.6	89.8	89.8	93.9	93.9	93.9	93.9
82.5°	57.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
85°	32.6	36.8	36.8	36.8	36.8	40.8	40.8	40.8
87.5°	20.4	20.4	20.4	20.4	20.4	20.4	16.4	16.4
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)