

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: P252615

Luminaire Tested: **LE\_6B50D010R EC6B30509027 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B50D010R EC6B30509027 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE 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: 5470.0 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

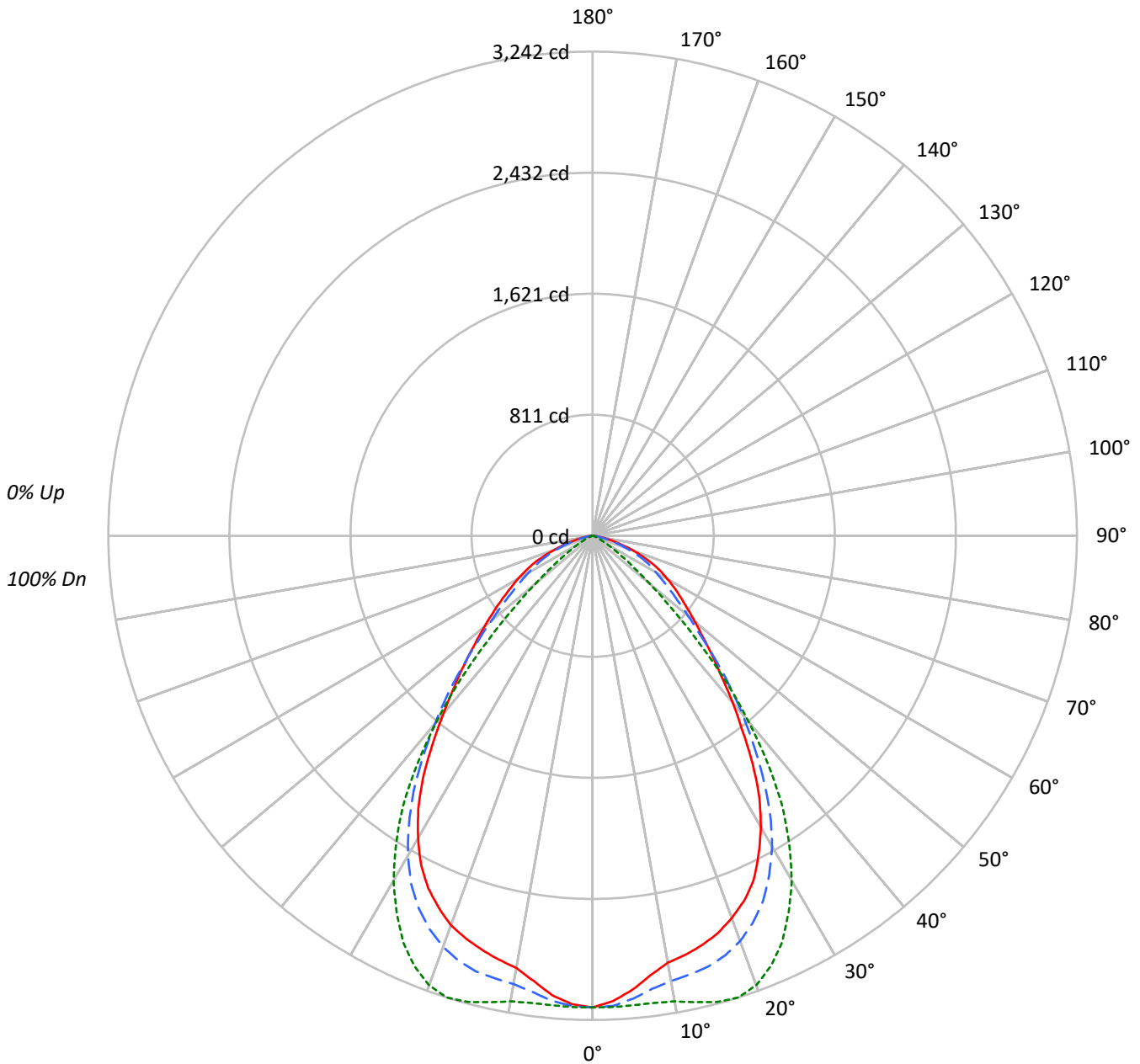
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°	90°	180°
0°	206036	206036	206036
5°	199888	206588	202285
10°	192282	209698	194700
15°	191610	218235	193819
20°	189093	222300	192648
25°	183447	216034	187384
30°	169696	200779	176024
35°	148871	176499	157608
40°	124069	138377	132143
45°	104425	91286	111501
50°	90423	50028	95975
55°	81804	26570	83886
60°	75275	13818	75275
65°	68202	7333	66519
70°	55013	4177	50835
75°	37760	2773	34987
80°	24721	1353	21941
85°	16393	2695	13624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.5	5.4
10°-20°	851.5	15.6
20°-30°	1258.2	23.0
30°-40°	1270.8	23.2
40°-50°	875.9	16.0
50°-60°	503.1	9.2
60°-70°	292.8	5.4
70°-80°	106.8	2.0
80°-90°	16.3	0.3
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°	2404.2	44.0
0°-40°	3675.0	67.2
0°-60°	5054.0	92.4
0°-90°	5470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5470.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3158	3158	3158	3158	3158	
5°	3052	3111	3154	3125	3089	286
15°	2837	2986	3231	3019	2870	799
25°	2548	2698	3001	2753	2603	1161
35°	1869	1997	2216	2088	1979	1160
45°	1132	1146	989	1219	1208	880
55°	719	632	234	657	738	648
65°	442	372	48	369	431	433
75°	150	120	11	117	139	169
85°	22	11	4	15	18	28
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°	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1
2.5°	3118.0	3121.6	3125.2	3121.6	3125.2	3139.9	3128.9	3136.2	3136.2	3139.9	3150.8
5°	3052.2	3052.2	3059.5	3055.9	3066.9	3081.4	3070.5	3081.4	3085.1	3092.4	3110.6
7.5°	2968.2	2968.2	2971.9	2971.9	2986.5	3001.1	2993.8	3008.4	3023.0	3037.6	3059.5
10°	2902.5	2909.9	2909.9	2913.5	2928.1	2946.4	2942.8	2961.0	2975.5	2997.5	3026.6
12.5°	2873.4	2877.0	2877.0	2884.2	2898.9	2917.1	2913.5	2931.8	2953.6	2979.2	3008.4
15°	2836.9	2844.1	2840.5	2847.8	2862.4	2880.6	2877.0	2895.2	2920.8	2946.4	2986.5
17.5°	2789.4	2793.0	2796.6	2796.6	2811.2	2825.9	2825.9	2844.1	2873.4	2902.5	2946.4
20°	2723.6	2731.0	2731.0	2734.6	2745.5	2767.5	2763.8	2782.0	2811.2	2840.5	2887.9
22.5°	2647.0	2650.6	2650.6	2654.2	2672.5	2683.5	2687.1	2701.8	2727.2	2760.1	2804.0
25°	2548.4	2552.0	2548.4	2559.4	2566.6	2588.5	2581.2	2599.5	2628.8	2654.2	2698.1
27.5°	2406.0	2413.2	2413.2	2417.0	2435.2	2453.5	2453.5	2471.8	2497.2	2515.5	2559.4
30°	2252.6	2263.6	2252.6	2270.9	2278.2	2292.9	2303.8	2314.8	2336.6	2362.2	2402.4
32.5°	2077.4	2073.8	2077.4	2084.8	2106.6	2117.6	2124.9	2135.9	2157.8	2179.6	2212.5
35°	1869.2	1876.6	1880.2	1894.9	1894.9	1913.1	1916.8	1924.1	1956.9	1971.5	1997.1
37.5°	1650.2	1657.5	1661.2	1668.5	1683.1	1690.4	1701.4	1712.4	1734.2	1759.8	1774.4
40°	1456.8	1456.8	1460.4	1467.8	1478.6	1482.2	1493.2	1507.9	1522.5	1544.4	1559.0
42.5°	1274.2	1277.9	1274.2	1281.5	1292.5	1307.0	1303.4	1321.6	1325.2	1339.9	1350.9
45°	1131.8	1131.8	1124.5	1131.8	1131.8	1146.4	1142.8	1150.0	1146.4	1153.8	1146.4
47.5°	996.8	1000.4	996.8	1000.4	1000.4	1000.4	1004.0	996.8	1000.4	989.4	967.5
50°	890.9	894.5	887.2	890.9	887.2	883.5	887.2	876.2	872.6	858.0	836.1
52.5°	799.6	795.9	792.2	792.2	792.2	788.6	785.0	774.0	763.0	748.5	722.9
55°	719.2	715.6	712.0	712.0	704.6	701.0	701.0	690.0	679.1	660.9	631.6
57.5°	646.2	642.6	638.9	638.9	635.2	628.0	628.0	617.0	602.4	580.5	555.0
60°	576.9	576.9	576.9	573.2	573.2	565.9	565.9	555.0	540.4	518.5	489.2
62.5°	514.8	511.1	511.1	511.1	511.1	507.5	503.9	496.5	481.9	460.0	434.5
65°	441.8	441.8	441.8	441.8	438.1	438.1	438.1	427.1	419.9	398.0	372.4
67.5°	361.5	361.5	361.5	361.5	357.8	361.5	361.5	354.1	346.9	325.0	303.0
70°	288.4	284.8	281.1	284.8	281.1	281.1	284.8	277.5	273.9	255.6	233.6
72.5°	211.8	215.4	211.8	211.8	211.8	208.1	211.8	208.1	200.8	186.2	171.6
75°	149.8	153.4	153.4	149.8	149.8	149.8	146.0	146.0	138.8	127.8	120.5
77.5°	102.2	102.2	102.2	102.2	98.6	98.6	98.6	94.9	91.2	84.0	76.6
80°	65.8	65.8	65.8	65.8	62.1	62.1	62.1	58.4	58.4	51.1	43.8
82.5°	40.1	40.1	40.1	40.1	40.1	40.1	36.5	36.5	32.9	29.2	25.5
85°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	18.2	18.2	14.6	11.0
87.5°	7.2	7.2	11.0	11.0	11.0	11.0	11.0	11.0	7.2	7.2	7.2
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°	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1
2.5°	3143.5	3147.1	3147.1	3147.1	3158.1	3161.8	3150.8	3139.9	3161.8	3158.1	3165.4
5°	3107.0	3118.0	3125.2	3128.9	3139.9	3147.1	3136.2	3132.5	3150.8	3154.5	3158.1
7.5°	3063.1	3081.4	3099.8	3107.0	3121.6	3128.9	3125.2	3125.2	3147.1	3154.5	3154.5
10°	3034.0	3059.5	3081.4	3099.8	3118.0	3128.9	3128.9	3132.5	3158.1	3165.4	3172.8
12.5°	3026.6	3059.5	3088.8	3114.2	3128.9	3147.1	3150.8	3161.8	3187.2	3198.2	3198.2
15°	3008.4	3052.2	3088.8	3121.6	3143.5	3165.4	3172.8	3194.6	3223.9	3231.1	3238.4
17.5°	2975.5	3019.4	3063.1	3103.4	3132.5	3150.8	3172.8	3194.6	3231.1	3242.1	3245.8
20°	2917.1	2968.2	3012.1	3052.2	3081.4	3107.0	3128.9	3154.5	3187.2	3201.9	3205.6
22.5°	2829.5	2880.6	2924.5	2968.2	2997.5	3019.4	3041.2	3070.5	3103.4	3118.0	3118.0
25°	2723.6	2771.1	2818.5	2851.4	2880.6	2906.1	2917.1	2950.0	2982.9	3001.1	3001.1
27.5°	2588.5	2632.4	2676.1	2712.6	2731.0	2752.9	2771.1	2800.2	2825.9	2840.5	2855.1
30°	2417.0	2460.8	2500.9	2537.4	2559.4	2581.2	2599.5	2621.4	2647.0	2665.2	2668.9
32.5°	2230.8	2267.2	2307.4	2343.9	2365.9	2373.1	2391.4	2413.2	2435.2	2449.8	2453.5
35°	2026.2	2051.9	2077.4	2110.2	2132.1	2132.1	2150.4	2165.0	2183.2	2216.1	2208.9
37.5°	1785.4	1821.9	1840.1	1851.0	1865.6	1880.2	1883.9	1902.1	1924.1	1931.4	1942.4
40°	1559.0	1569.9	1580.9	1580.9	1595.5	1595.5	1595.5	1599.1	1621.0	1624.8	1639.2
42.5°	1332.6	1332.6	1321.6	1310.8	1314.4	1310.8	1292.5	1292.5	1303.4	1318.0	1318.0
45°	1120.9	1095.2	1062.4	1036.9	1018.6	1011.4	989.4	989.4	985.8	989.4	1004.0
47.5°	942.0	898.1	843.4	792.2	774.0	759.4	726.5	712.0	704.6	708.2	715.6
50°	792.2	744.8	682.8	620.6	587.8	569.5	529.4	503.9	500.1	492.9	507.5
52.5°	682.8	624.4	558.6	485.6	452.8	423.5	379.8	357.8	343.2	343.2	346.9
55°	587.8	525.8	452.8	379.8	346.9	325.0	281.1	251.9	237.4	233.6	244.6
57.5°	507.5	449.1	376.0	303.0	270.1	244.6	200.8	175.2	164.2	157.0	160.6
60°	445.4	387.0	314.0	244.6	215.4	186.2	149.8	120.5	105.9	105.9	109.5
62.5°	387.0	332.2	266.5	200.8	175.2	149.8	109.5	84.0	73.0	69.4	73.0
65°	328.6	277.5	222.8	168.0	142.4	120.5	87.6	65.8	51.1	47.5	51.1
67.5°	266.5	226.4	178.9	135.1	113.1	94.9	65.8	47.5	36.5	32.9	36.5
70°	208.1	171.6	135.1	98.6	84.0	69.4	47.5	36.5	25.5	21.9	25.5
72.5°	149.8	124.1	94.9	69.4	58.4	47.5	32.9	25.5	18.2	14.6	18.2
75°	102.2	84.0	62.1	43.8	36.5	32.9	21.9	14.6	11.0	11.0	11.0
77.5°	65.8	51.1	40.1	29.2	21.9	18.2	11.0	7.2	7.2	7.2	7.2
80°	36.5	29.2	21.9	14.6	11.0	11.0	7.2	7.2	3.6	3.6	3.6
82.5°	21.9	14.6	11.0	7.2	7.2	3.6	3.6	3.6	3.6	3.6	3.6
85°	11.0	7.2	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1
2.5°	3150.8	3154.5	3143.5	3158.1	3147.1	3161.8	3161.8	3147.1	3150.8	3143.5	3158.1
5°	3143.5	3143.5	3136.2	3147.1	3132.5	3147.1	3143.5	3118.0	3125.2	3110.6	3125.2
7.5°	3143.5	3136.2	3125.2	3136.2	3118.0	3128.9	3114.2	3088.8	3081.4	3063.1	3063.1
10°	3154.5	3143.5	3128.9	3132.5	3114.2	3118.0	3096.0	3059.5	3048.6	3026.6	3019.4
12.5°	3180.0	3169.0	3147.1	3154.5	3128.9	3128.9	3099.8	3055.9	3034.0	3004.8	2997.5
15°	3216.5	3198.2	3172.8	3176.4	3150.8	3136.2	3099.8	3048.6	3019.4	2979.2	2968.2
17.5°	3223.9	3205.6	3172.8	3172.8	3139.9	3121.6	3077.8	3019.4	2982.9	2942.8	2920.8
20°	3183.6	3165.4	3128.9	3125.2	3096.0	3070.5	3023.0	2964.6	2928.1	2884.2	2866.0
22.5°	3099.8	3077.8	3044.9	3041.2	3012.1	2997.5	2946.4	2887.9	2851.4	2807.6	2793.0
25°	2975.5	2964.6	2931.8	2928.1	2902.5	2884.2	2840.5	2785.8	2752.9	2709.0	2694.4
27.5°	2829.5	2818.5	2785.8	2785.8	2756.5	2745.5	2705.4	2654.2	2628.8	2588.5	2570.2
30°	2654.2	2639.6	2621.4	2617.8	2592.2	2581.2	2544.8	2497.2	2471.8	2438.9	2431.5
32.5°	2446.1	2435.2	2424.2	2420.6	2395.0	2384.1	2358.5	2311.1	2289.1	2260.0	2249.0
35°	2205.2	2197.9	2187.0	2183.2	2172.4	2161.4	2135.9	2099.4	2088.4	2066.5	2055.5
37.5°	1927.8	1935.0	1927.8	1927.8	1916.8	1920.4	1898.5	1876.6	1865.6	1851.0	1843.8
40°	1628.4	1643.0	1653.9	1653.9	1650.2	1664.9	1661.2	1643.0	1639.2	1632.0	1628.4
42.5°	1325.2	1332.6	1354.5	1369.1	1365.5	1402.0	1405.6	1420.2	1431.1	1423.9	1427.5
45°	1007.6	1029.6	1058.8	1073.4	1091.6	1139.1	1164.6	1193.9	1219.4	1234.0	1230.4
47.5°	726.5	752.1	785.0	806.9	839.8	898.1	963.9	1000.4	1036.9	1055.1	1073.4
50°	525.8	551.2	591.5	624.4	646.2	726.5	795.9	843.4	883.5	909.1	927.4
52.5°	368.8	398.0	441.8	471.0	503.9	580.5	660.9	715.6	759.4	792.2	810.5
55°	255.6	288.4	328.6	357.8	394.2	474.6	551.2	609.8	657.1	686.4	708.2
57.5°	178.9	208.1	248.2	273.9	310.4	387.0	463.6	522.1	569.5	598.8	624.4
60°	120.5	149.8	189.9	215.4	244.6	321.2	390.6	452.8	496.5	525.8	551.2
62.5°	84.0	109.5	149.8	175.2	200.8	266.5	332.2	387.0	430.9	463.6	485.6
65°	65.8	87.6	120.5	142.4	168.0	222.8	277.5	325.0	368.8	401.6	416.2
67.5°	47.5	69.4	94.9	113.1	131.4	178.9	226.4	262.9	303.0	328.6	346.9
70°	32.9	47.5	69.4	84.0	98.6	135.1	171.6	204.5	233.6	251.9	266.5
72.5°	25.5	32.9	47.5	58.4	69.4	94.9	124.1	149.8	171.6	186.2	200.8
75°	14.6	21.9	32.9	40.1	47.5	65.8	84.0	102.2	116.9	127.8	135.1
77.5°	7.2	11.0	18.2	21.9	29.2	40.1	54.8	65.8	76.6	84.0	91.2
80°	7.2	7.2	11.0	11.0	14.6	21.9	29.2	36.5	43.8	51.1	54.8
82.5°	3.6	3.6	7.2	7.2	7.2	11.0	14.6	21.9	25.5	29.2	32.9
85°	3.6	3.6	3.6	3.6	3.6	7.2	7.2	11.0	14.6	18.2	18.2
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	7.2	7.2	7.2	11.0
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: P252615

CATALOG NUMBER: LE\_6B50D010R EC6B30509027 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1
2.5°	3147.1	3154.5	3150.8	3158.1	3147.1	3143.5	3150.8	3139.9
5°	3107.0	3110.6	3107.0	3107.0	3099.8	3092.4	3099.8	3088.8
7.5°	3044.9	3044.9	3034.0	3034.0	3019.4	3012.1	3012.1	3008.4
10°	2993.8	2982.9	2971.9	2975.5	2953.6	2946.4	2942.8	2939.0
12.5°	2968.2	2961.0	2942.8	2942.8	2920.8	2913.5	2909.9	2906.1
15°	2939.0	2924.5	2909.9	2906.1	2887.9	2880.6	2877.0	2869.6
17.5°	2887.9	2877.0	2858.8	2858.8	2840.5	2836.9	2829.5	2825.9
20°	2833.1	2818.5	2804.0	2804.0	2782.0	2782.0	2771.1	2774.8
22.5°	2756.5	2745.5	2731.0	2731.0	2712.6	2709.0	2698.1	2694.4
25°	2665.2	2650.6	2639.6	2636.0	2621.4	2614.1	2610.5	2603.1
27.5°	2544.8	2533.8	2522.9	2515.5	2497.2	2493.6	2482.6	2486.4
30°	2395.0	2387.8	2384.1	2376.8	2354.9	2347.6	2347.6	2336.6
32.5°	2230.8	2219.8	2212.5	2201.5	2183.2	2179.6	2168.6	2172.4
35°	2030.0	2015.4	2004.4	2008.0	1986.1	1982.5	1975.1	1978.9
37.5°	1821.9	1807.2	1792.6	1789.0	1770.8	1770.8	1759.8	1759.8
40°	1606.4	1591.9	1584.5	1584.5	1562.6	1566.2	1555.4	1551.6
42.5°	1412.9	1398.4	1394.6	1391.0	1380.1	1376.4	1365.5	1369.1
45°	1230.4	1226.8	1226.8	1219.4	1208.5	1204.9	1208.5	1208.5
47.5°	1069.8	1073.4	1069.8	1069.8	1062.4	1069.8	1062.4	1066.1
50°	934.6	942.0	942.0	942.0	938.2	942.0	942.0	945.6
52.5°	821.5	832.4	828.8	832.4	828.8	836.1	832.4	836.1
55°	722.9	730.2	733.9	737.5	737.5	737.5	737.5	737.5
57.5°	631.6	642.6	646.2	649.9	649.9	657.1	649.9	649.9
60°	558.6	569.5	573.2	576.9	576.9	580.5	573.2	576.9
62.5°	492.9	503.9	503.9	507.5	507.5	507.5	500.1	503.9
65°	427.1	430.9	434.5	434.5	430.9	430.9	427.1	430.9
67.5°	354.1	357.8	354.1	354.1	350.5	350.5	343.2	346.9
70°	273.9	273.9	277.5	273.9	270.1	273.9	270.1	266.5
72.5°	204.5	204.5	204.5	200.8	200.8	197.1	200.8	200.8
75°	138.8	138.8	142.4	142.4	142.4	142.4	138.8	138.8
77.5°	91.2	91.2	91.2	91.2	94.9	91.2	91.2	91.2
80°	58.4	58.4	62.1	62.1	58.4	58.4	58.4	58.4
82.5°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
85°	21.9	21.9	21.9	21.9	18.2	18.2	18.2	18.2
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	7.2	7.2
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)