

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: P252614

Luminaire Tested: **LE\_6B50D010R EC6B30509024 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252614  
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 EC6B30509024 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4812.5 lumens  
Efficiency: N/A  
Efficacy: 81.8 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

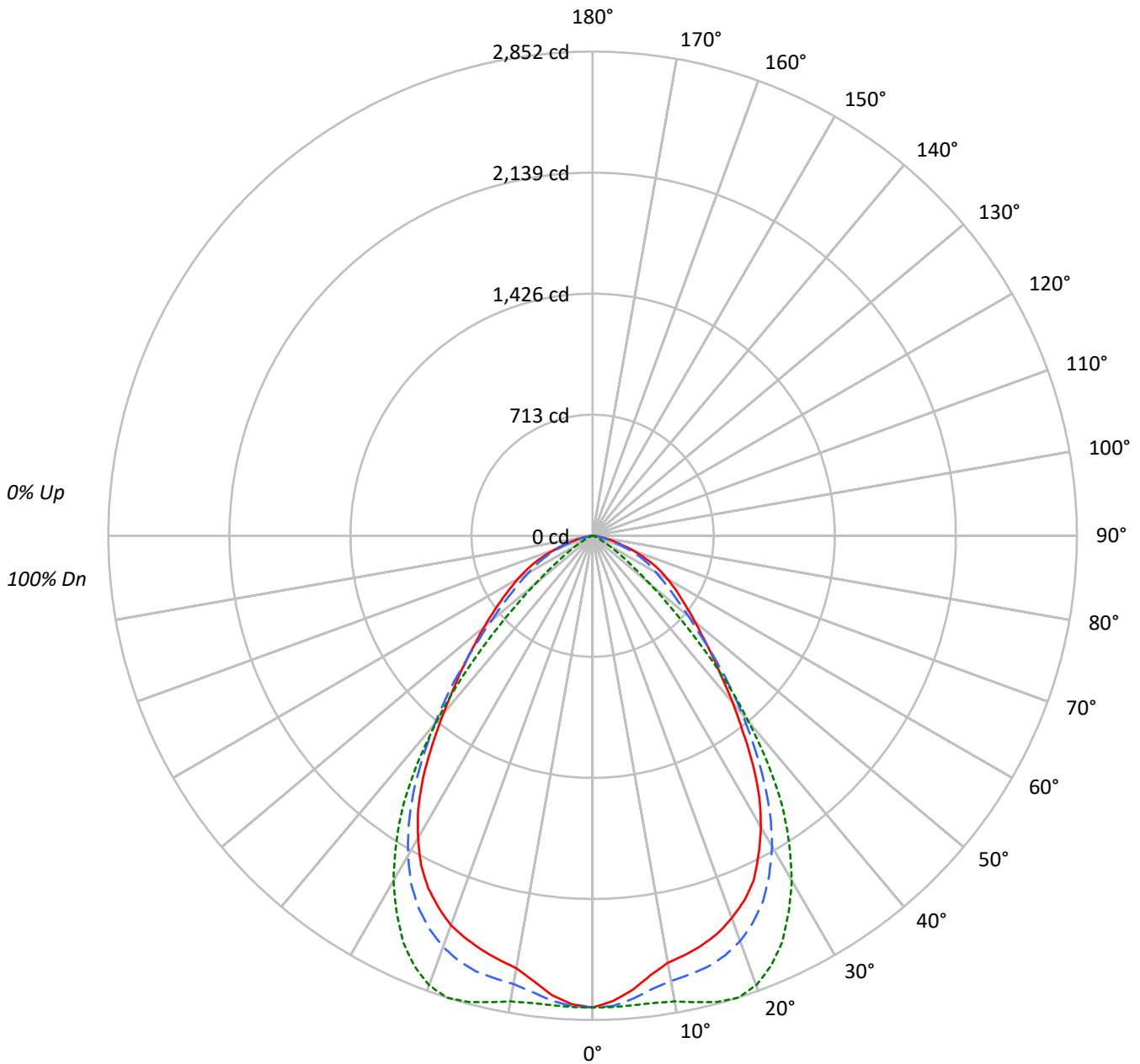
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	100	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70	70	70	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	62	62	62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56	56	56	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50	50	50	50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46	46	46	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42	42	42	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35	35	35	35

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

	0°	90°	180°
0°	181271	181271	181271
5°	175866	181747	177969
10°	169169	184491	171302
15°	168578	192009	170530
20°	166362	195578	169487
25°	161398	190069	164860
30°	149303	176649	154870
35°	130983	155290	138660
40°	109148	121736	116260
45°	91877	80316	98095
50°	79553	44009	84445
55°	71977	23386	73808
60°	66219	12148	66219
65°	59989	6453	58507
70°	48413	3662	44731
75°	33223	2420	30753
80°	21753	1202	19311
85°	14372	2395	11977



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.1	5.4
10°-20°	749.2	15.6
20°-30°	1106.9	23.0
30°-40°	1118.1	23.2
40°-50°	770.6	16.0
50°-60°	442.6	9.2
60°-70°	257.6	5.4
70°-80°	94.0	2.0
80°-90°	14.4	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°	2115.2	44.0
0°-40°	3233.3	67.2
0°-60°	4446.5	92.4
0°-90°	4812.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4812.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2778	2778	2778	2778	2778	
5°	2685	2737	2775	2750	2718	252
15°	2496	2628	2843	2656	2525	703
25°	2242	2374	2640	2422	2290	1022
35°	1645	1757	1950	1837	1741	1021
45°	996	1009	870	1073	1063	774
55°	633	556	206	578	649	570
65°	389	328	42	324	379	381
75°	132	106	10	103	122	148
85°	19	10	3	13	16	24
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°	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5
2.5°	2743.1	2746.4	2749.6	2746.4	2749.6	2762.4	2752.8	2759.2	2759.2	2762.4	2772.1
5°	2685.4	2685.4	2691.8	2688.5	2698.2	2711.0	2701.4	2711.0	2714.2	2720.6	2736.8
7.5°	2611.5	2611.5	2614.6	2614.6	2627.5	2640.4	2634.0	2646.8	2659.6	2672.5	2691.8
10°	2553.6	2560.1	2560.1	2563.2	2576.1	2592.2	2589.0	2605.0	2617.9	2637.1	2662.9
12.5°	2528.0	2531.1	2531.1	2537.6	2550.4	2566.5	2563.2	2579.4	2598.6	2621.1	2646.8
15°	2495.9	2502.2	2499.0	2505.5	2518.4	2534.4	2531.1	2547.2	2569.8	2592.2	2627.5
17.5°	2454.1	2457.2	2460.5	2460.5	2473.4	2486.2	2486.2	2502.2	2528.0	2553.6	2592.2
20°	2396.2	2402.6	2402.6	2405.9	2415.5	2434.8	2431.6	2447.6	2473.4	2499.0	2540.8
22.5°	2328.8	2332.0	2332.0	2335.2	2351.2	2360.9	2364.1	2377.0	2399.5	2428.4	2466.9
25°	2242.1	2245.2	2242.1	2251.8	2258.1	2277.4	2271.0	2287.0	2312.8	2335.2	2373.8
27.5°	2116.8	2123.2	2123.2	2126.4	2142.5	2158.5	2158.5	2174.6	2197.1	2213.1	2251.8
30°	1981.9	1991.5	1981.9	1998.0	2004.4	2017.2	2026.9	2036.5	2055.8	2078.2	2113.6
32.5°	1827.8	1824.5	1827.8	1834.1	1853.4	1863.0	1869.5	1879.1	1898.4	1917.6	1946.5
35°	1644.6	1651.0	1654.2	1667.1	1667.1	1683.1	1686.4	1692.8	1721.8	1734.5	1757.0
37.5°	1451.9	1458.2	1461.5	1468.0	1480.8	1487.2	1496.9	1506.5	1525.8	1548.2	1561.1
40°	1281.6	1281.6	1284.9	1291.2	1300.9	1304.1	1313.8	1326.6	1339.5	1358.8	1371.6
42.5°	1121.0	1124.2	1121.0	1127.5	1137.1	1150.0	1146.8	1162.8	1166.0	1178.9	1188.5
45°	995.8	995.8	989.4	995.8	995.8	1008.6	1005.4	1011.9	1008.6	1015.0	1008.6
47.5°	876.9	880.1	876.9	880.1	880.1	880.1	883.4	876.9	880.1	870.5	851.2
50°	783.8	787.0	780.5	783.8	780.5	777.4	780.5	770.9	767.8	754.9	735.6
52.5°	703.5	700.2	697.0	697.0	697.0	693.9	690.6	681.0	671.4	658.5	636.0
55°	632.8	629.6	626.4	626.4	620.0	616.8	616.8	607.1	597.5	581.4	555.8
57.5°	568.5	565.4	562.1	562.1	558.9	552.5	552.5	542.9	530.0	510.8	488.2
60°	507.5	507.5	507.5	504.2	504.2	497.9	497.9	488.2	475.4	456.1	430.4
62.5°	452.9	449.8	449.8	449.8	449.8	446.5	443.2	436.9	424.0	404.8	382.2
65°	388.6	388.6	388.6	388.6	385.5	385.5	385.5	375.9	369.4	350.1	327.6
67.5°	318.0	318.0	318.0	318.0	314.8	318.0	318.0	311.6	305.1	285.9	266.6
70°	253.8	250.5	247.4	250.5	247.4	247.4	250.5	244.1	240.9	224.9	205.6
72.5°	186.2	189.5	186.2	186.2	186.2	183.1	186.2	183.1	176.6	163.9	151.0
75°	131.8	134.9	134.9	131.8	131.8	131.8	128.5	128.5	122.0	112.4	106.0
77.5°	90.0	90.0	90.0	90.0	86.8	86.8	86.8	83.5	80.2	73.9	67.5
80°	57.9	57.9	57.9	57.9	54.6	54.6	54.6	51.4	51.4	45.0	38.5
82.5°	35.4	35.4	35.4	35.4	35.4	35.4	32.1	32.1	28.9	25.8	22.5
85°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	16.0	16.0	12.9	9.6
87.5°	6.4	6.4	9.6	9.6	9.6	9.6	9.6	9.6	6.4	6.4	6.4
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°	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5
2.5°	2765.6	2768.9	2768.9	2768.9	2778.5	2781.8	2772.1	2762.4	2781.8	2778.5	2784.9
5°	2733.5	2743.1	2749.6	2752.8	2762.4	2768.9	2759.2	2756.0	2772.1	2775.2	2778.5
7.5°	2695.0	2711.0	2727.1	2733.5	2746.4	2752.8	2749.6	2749.6	2768.9	2775.2	2775.2
10°	2669.2	2691.8	2711.0	2727.1	2743.1	2752.8	2752.8	2756.0	2778.5	2784.9	2791.4
12.5°	2662.9	2691.8	2717.5	2740.0	2752.8	2768.9	2772.1	2781.8	2804.2	2813.9	2813.9
15°	2646.8	2685.4	2717.5	2746.4	2765.6	2784.9	2791.4	2810.6	2836.4	2842.8	2849.1
17.5°	2617.9	2656.4	2695.0	2730.4	2756.0	2772.1	2791.4	2810.6	2842.8	2852.4	2855.6
20°	2566.5	2611.5	2650.0	2685.4	2711.0	2733.5	2752.8	2775.2	2804.2	2817.0	2820.2
22.5°	2489.4	2534.4	2572.9	2611.5	2637.1	2656.4	2675.8	2701.4	2730.4	2743.1	2743.1
25°	2396.2	2438.0	2479.8	2508.6	2534.4	2556.9	2566.5	2595.4	2624.4	2640.4	2640.4
27.5°	2277.4	2316.0	2354.5	2386.6	2402.6	2422.0	2438.0	2463.8	2486.2	2499.0	2511.9
30°	2126.4	2165.0	2200.2	2232.4	2251.8	2271.0	2287.0	2306.2	2328.8	2344.9	2348.1
32.5°	1962.6	1994.8	2030.1	2062.2	2081.5	2087.9	2104.0	2123.2	2142.5	2155.4	2158.5
35°	1782.8	1805.2	1827.8	1856.6	1875.9	1875.9	1892.0	1904.8	1920.9	1949.8	1943.4
37.5°	1570.8	1602.9	1618.9	1628.5	1641.4	1654.2	1657.5	1673.5	1692.8	1699.2	1708.9
40°	1371.6	1381.2	1390.9	1390.9	1403.8	1403.8	1403.8	1406.9	1426.2	1429.4	1442.2
42.5°	1172.4	1172.4	1162.8	1153.1	1156.4	1153.1	1137.1	1137.1	1146.8	1159.6	1159.6
45°	986.1	963.6	934.8	912.2	896.1	889.8	870.5	870.5	867.2	870.5	883.4
47.5°	828.8	790.1	742.0	697.0	681.0	668.1	639.2	626.4	620.0	623.1	629.6
50°	697.0	655.2	600.6	546.1	517.1	501.1	465.8	443.2	440.0	433.6	446.5
52.5°	600.6	549.2	491.5	427.2	398.2	372.6	334.0	314.8	302.0	302.0	305.1
55°	517.1	462.5	398.2	334.0	305.1	285.9	247.4	221.6	208.8	205.6	215.2
57.5°	446.5	395.1	330.9	266.6	237.8	215.2	176.6	154.1	144.5	138.1	141.4
60°	391.9	340.5	276.2	215.2	189.5	163.9	131.8	106.0	93.1	93.1	96.4
62.5°	340.5	292.2	234.5	176.6	154.1	131.8	96.4	73.9	64.2	61.0	64.2
65°	289.1	244.1	196.0	147.8	125.2	106.0	77.1	57.9	45.0	41.8	45.0
67.5°	234.5	199.1	157.4	118.9	99.6	83.5	57.9	41.8	32.1	28.9	32.1
70°	183.1	151.0	118.9	86.8	73.9	61.0	41.8	32.1	22.5	19.2	22.5
72.5°	131.8	109.2	83.5	61.0	51.4	41.8	28.9	22.5	16.0	12.9	16.0
75°	90.0	73.9	54.6	38.5	32.1	28.9	19.2	12.9	9.6	9.6	9.6
77.5°	57.9	45.0	35.4	25.8	19.2	16.0	9.6	6.4	6.4	6.4	6.4
80°	32.1	25.8	19.2	12.9	9.6	9.6	6.4	6.4	3.2	3.2	3.2
82.5°	19.2	12.9	9.6	6.4	6.4	3.2	3.2	3.2	3.2	3.2	3.2
85°	9.6	6.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	3.2	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°	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5
2.5°	2772.1	2775.2	2765.6	2778.5	2768.9	2781.8	2781.8	2768.9	2772.1	2765.6	2778.5
5°	2765.6	2765.6	2759.2	2768.9	2756.0	2768.9	2765.6	2743.1	2749.6	2736.8	2749.6
7.5°	2765.6	2759.2	2749.6	2759.2	2743.1	2752.8	2740.0	2717.5	2711.0	2695.0	2695.0
10°	2775.2	2765.6	2752.8	2756.0	2740.0	2743.1	2723.9	2691.8	2682.1	2662.9	2656.4
12.5°	2797.8	2788.1	2768.9	2775.2	2752.8	2752.8	2727.1	2688.5	2669.2	2643.6	2637.1
15°	2829.9	2813.9	2791.4	2794.5	2772.1	2759.2	2727.1	2682.1	2656.4	2621.1	2611.5
17.5°	2836.4	2820.2	2791.4	2791.4	2762.4	2746.4	2707.9	2656.4	2624.4	2589.0	2569.8
20°	2801.0	2784.9	2752.8	2749.6	2723.9	2701.4	2659.6	2608.2	2576.1	2537.6	2521.5
22.5°	2727.1	2707.9	2678.9	2675.8	2650.0	2637.1	2592.2	2540.8	2508.6	2470.1	2457.2
25°	2617.9	2608.2	2579.4	2576.1	2553.6	2537.6	2499.0	2450.9	2422.0	2383.4	2370.5
27.5°	2489.4	2479.8	2450.9	2450.9	2425.1	2415.5	2380.2	2335.2	2312.8	2277.4	2261.4
30°	2335.2	2322.4	2306.2	2303.1	2280.6	2271.0	2238.9	2197.1	2174.6	2145.8	2139.2
32.5°	2152.1	2142.5	2132.9	2129.6	2107.1	2097.5	2075.0	2033.2	2014.0	1988.2	1978.6
35°	1940.1	1933.8	1924.1	1920.9	1911.2	1901.6	1879.1	1847.0	1837.4	1818.1	1808.4
37.5°	1696.0	1702.4	1696.0	1696.0	1686.4	1689.6	1670.2	1651.0	1641.4	1628.5	1622.1
40°	1432.6	1445.5	1455.1	1455.1	1451.9	1464.8	1461.5	1445.5	1442.2	1435.9	1432.6
42.5°	1166.0	1172.4	1191.8	1204.5	1201.4	1233.5	1236.6	1249.5	1259.1	1252.8	1256.0
45°	886.5	905.9	931.5	944.4	960.4	1002.1	1024.6	1050.4	1072.9	1085.8	1082.5
47.5°	639.2	661.8	690.6	709.9	738.8	790.1	848.0	880.1	912.2	928.2	944.4
50°	462.5	485.0	520.4	549.2	568.5	639.2	700.2	742.0	777.4	799.9	815.9
52.5°	324.4	350.1	388.6	414.4	443.2	510.8	581.4	629.6	668.1	697.0	713.1
55°	224.9	253.8	289.1	314.8	346.9	417.6	485.0	536.4	578.1	603.9	623.1
57.5°	157.4	183.1	218.4	240.9	273.0	340.5	408.0	459.4	501.1	526.8	549.2
60°	106.0	131.8	167.0	189.5	215.2	282.6	343.8	398.2	436.9	462.5	485.0
62.5°	73.9	96.4	131.8	154.1	176.6	234.5	292.2	340.5	379.0	408.0	427.2
65°	57.9	77.1	106.0	125.2	147.8	196.0	244.1	285.9	324.4	353.4	366.1
67.5°	41.8	61.0	83.5	99.6	115.6	157.4	199.1	231.2	266.6	289.1	305.1
70°	28.9	41.8	61.0	73.9	86.8	118.9	151.0	179.9	205.6	221.6	234.5
72.5°	22.5	28.9	41.8	51.4	61.0	83.5	109.2	131.8	151.0	163.9	176.6
75°	12.9	19.2	28.9	35.4	41.8	57.9	73.9	90.0	102.8	112.4	118.9
77.5°	6.4	9.6	16.0	19.2	25.8	35.4	48.1	57.9	67.5	73.9	80.2
80°	6.4	6.4	9.6	9.6	12.9	19.2	25.8	32.1	38.5	45.0	48.1
82.5°	3.2	3.2	6.4	6.4	6.4	9.6	12.9	19.2	22.5	25.8	28.9
85°	3.2	3.2	3.2	3.2	3.2	6.4	6.4	9.6	12.9	16.0	16.0
87.5°	0.0	0.0	3.2	3.2	3.2	3.2	3.2	6.4	6.4	6.4	9.6
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: P252614

CATALOG NUMBER: LE\_6B50D010R EC6B30509024 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5	2778.5
2.5°	2768.9	2775.2	2772.1	2778.5	2768.9	2765.6	2772.1	2762.4
5°	2733.5	2736.8	2733.5	2733.5	2727.1	2720.6	2727.1	2717.5
7.5°	2678.9	2678.9	2669.2	2669.2	2656.4	2650.0	2650.0	2646.8
10°	2634.0	2624.4	2614.6	2617.9	2598.6	2592.2	2589.0	2585.8
12.5°	2611.5	2605.0	2589.0	2589.0	2569.8	2563.2	2560.1	2556.9
15°	2585.8	2572.9	2560.1	2556.9	2540.8	2534.4	2531.1	2524.8
17.5°	2540.8	2531.1	2515.1	2515.1	2499.0	2495.9	2489.4	2486.2
20°	2492.6	2479.8	2466.9	2466.9	2447.6	2447.6	2438.0	2441.2
22.5°	2425.1	2415.5	2402.6	2402.6	2386.6	2383.4	2373.8	2370.5
25°	2344.9	2332.0	2322.4	2319.1	2306.2	2299.9	2296.6	2290.2
27.5°	2238.9	2229.2	2219.6	2213.1	2197.1	2193.9	2184.2	2187.5
30°	2107.1	2100.8	2097.5	2091.1	2071.9	2065.4	2065.4	2055.8
32.5°	1962.6	1953.0	1946.5	1936.9	1920.9	1917.6	1908.0	1911.2
35°	1786.0	1773.1	1763.5	1766.6	1747.4	1744.2	1737.8	1741.0
37.5°	1602.9	1590.0	1577.1	1574.0	1557.9	1557.9	1548.2	1548.2
40°	1413.4	1400.5	1394.1	1394.1	1374.8	1378.0	1368.4	1365.1
42.5°	1243.1	1230.2	1227.0	1223.9	1214.1	1211.0	1201.4	1204.5
45°	1082.5	1079.2	1079.2	1072.9	1063.2	1060.0	1063.2	1063.2
47.5°	941.1	944.4	941.1	941.1	934.8	941.1	934.8	938.0
50°	822.2	828.8	828.8	828.8	825.5	828.8	828.8	832.0
52.5°	722.8	732.4	729.1	732.4	729.1	735.6	732.4	735.6
55°	636.0	642.4	645.6	648.9	648.9	648.9	648.9	648.9
57.5°	555.8	565.4	568.5	571.8	571.8	578.1	571.8	571.8
60°	491.5	501.1	504.2	507.5	507.5	510.8	504.2	507.5
62.5°	433.6	443.2	443.2	446.5	446.5	446.5	440.0	443.2
65°	375.9	379.0	382.2	382.2	379.0	379.0	375.9	379.0
67.5°	311.6	314.8	311.6	311.6	308.4	308.4	302.0	305.1
70°	240.9	240.9	244.1	240.9	237.8	240.9	237.8	234.5
72.5°	179.9	179.9	179.9	176.6	176.6	173.5	176.6	176.6
75°	122.0	122.0	125.2	125.2	125.2	125.2	122.0	122.0
77.5°	80.2	80.2	80.2	80.2	83.5	80.2	80.2	80.2
80°	51.4	51.4	54.6	54.6	51.4	51.4	51.4	51.4
82.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
85°	19.2	19.2	19.2	19.2	16.0	16.0	16.0	16.0
87.5°	9.6	9.6	9.6	9.6	9.6	9.6	6.4	6.4
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)