

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: P252616

Luminaire Tested: **LE\_6B50D010R EC6B30509030 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252616  
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 EC6B30509030 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5687.5 lumens  
Efficiency: N/A  
Efficacy: 96.7 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

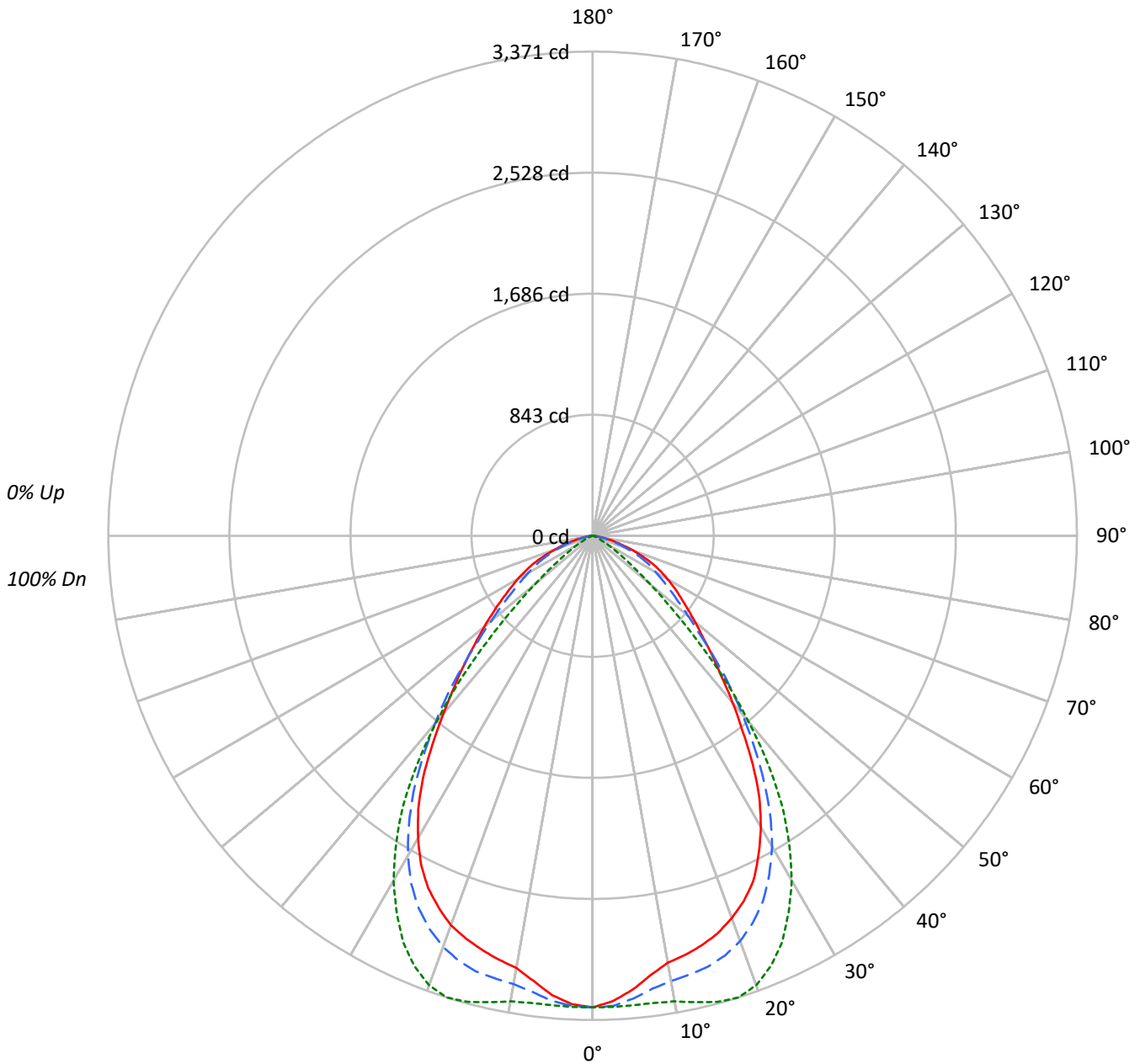
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	214224	214224	214224
5°	207839	214800	210321
10°	199934	218032	202444
15°	199222	226914	201532
20°	196612	231138	200306
25°	190746	224629	194835
30°	176446	208764	183022
35°	154796	183516	163868
40°	128992	143862	137406
45°	108576	94921	115930
50°	94006	52017	99791
55°	85069	27640	87230
60°	78263	14366	78263
65°	70919	7626	69159
70°	57206	4349	52857
75°	39222	2874	36349
80°	25698	1428	22843
85°	17067	2844	14222



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.2	5.4
10°-20°	885.4	15.6
20°-30°	1308.2	23.0
30°-40°	1321.4	23.2
40°-50°	910.8	16.0
50°-60°	523.1	9.2
60°-70°	304.4	5.4
70°-80°	111.1	2.0
80°-90°	17.0	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°	2499.8	44.0
0°-40°	3821.2	67.2
0°-60°	5255.0	92.4
0°-90°	5687.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5687.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3284	3284	3284	3284	3284	
5°	3174	3234	3280	3250	3212	298
15°	2950	3105	3360	3139	2984	831
25°	2650	2805	3120	2862	2707	1207
35°	1944	2076	2304	2171	2058	1206
45°	1177	1192	1029	1268	1256	915
55°	748	657	243	683	767	673
65°	459	387	49	383	448	450
75°	156	125	11	122	144	175
85°	23	11	4	15	19	29
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°	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6
2.5°	3241.9	3245.8	3249.5	3245.8	3249.5	3264.8	3253.2	3260.9	3260.9	3264.8	3276.1
5°	3173.6	3173.6	3181.1	3177.4	3188.8	3204.0	3192.6	3204.0	3207.8	3215.4	3234.4
7.5°	3086.2	3086.2	3090.1	3090.1	3105.2	3120.5	3112.9	3128.0	3143.2	3158.4	3181.1
10°	3018.0	3025.5	3025.5	3029.4	3044.5	3063.5	3059.8	3078.6	3093.9	3116.6	3147.0
12.5°	2987.6	2991.4	2991.4	2999.0	3014.1	3033.1	3029.4	3048.4	3071.1	3097.6	3128.0
15°	2949.6	2957.2	2953.4	2961.0	2976.2	2995.1	2991.4	3010.4	3036.9	3063.5	3105.2
17.5°	2900.2	2904.0	2907.9	2907.9	2923.0	2938.2	2938.2	2957.2	2987.6	3018.0	3063.5
20°	2831.9	2839.5	2839.5	2843.4	2854.8	2877.5	2873.8	2892.6	2923.0	2953.4	3002.8
22.5°	2752.2	2756.0	2756.0	2759.8	2778.8	2790.1	2794.0	2809.1	2835.8	2869.9	2915.5
25°	2649.8	2653.5	2649.8	2661.1	2668.8	2691.5	2683.9	2702.9	2733.2	2759.8	2805.4
27.5°	2501.6	2509.2	2509.2	2513.0	2532.0	2551.0	2551.0	2570.0	2596.6	2615.5	2661.1
30°	2342.2	2353.6	2342.2	2361.2	2368.8	2384.0	2395.4	2406.8	2429.5	2456.1	2497.9
32.5°	2160.0	2156.2	2160.0	2167.6	2190.4	2201.8	2209.4	2220.8	2243.5	2266.2	2300.5
35°	1943.6	1951.2	1955.0	1970.2	1970.2	1989.1	1993.0	2000.6	2034.8	2049.9	2076.5
37.5°	1715.9	1723.5	1727.2	1734.9	1750.0	1757.6	1769.0	1780.4	1803.1	1829.8	1844.9
40°	1514.6	1514.6	1518.5	1526.0	1537.5	1541.2	1552.6	1567.9	1583.0	1605.8	1621.0
42.5°	1324.9	1328.6	1324.9	1332.5	1343.9	1359.0	1355.2	1374.2	1378.0	1393.2	1404.6
45°	1176.8	1176.8	1169.2	1176.8	1176.8	1192.0	1188.2	1195.8	1192.0	1199.6	1192.0
47.5°	1036.4	1040.1	1036.4	1040.1	1040.1	1040.1	1044.0	1036.4	1040.1	1028.8	1006.0
50°	926.2	930.0	922.5	926.2	922.5	918.6	922.5	911.1	907.2	892.1	869.4
52.5°	831.4	827.6	823.8	823.8	823.8	820.0	816.1	804.8	793.4	778.2	751.6
55°	747.9	744.0	740.2	740.2	732.6	728.9	728.9	717.5	706.1	687.1	656.8
57.5°	671.9	668.1	664.4	664.4	660.5	653.0	653.0	641.5	626.4	603.6	577.0
60°	599.8	599.8	599.8	596.0	596.0	588.4	588.4	577.0	561.9	539.0	508.6
62.5°	535.2	531.5	531.5	531.5	531.5	527.6	523.9	516.2	501.1	478.4	451.8
65°	459.4	459.4	459.4	459.4	455.5	455.5	455.5	444.1	436.5	413.8	387.2
67.5°	375.9	375.9	375.9	375.9	372.0	375.9	375.9	368.2	360.6	337.9	315.1
70°	299.9	296.1	292.2	296.1	292.2	292.2	296.1	288.5	284.8	265.8	243.0
72.5°	220.1	224.0	220.1	220.1	220.1	216.4	220.1	216.4	208.8	193.6	178.4
75°	155.6	159.5	159.5	155.6	155.6	155.6	151.9	151.9	144.2	132.9	125.2
77.5°	106.2	106.2	106.2	106.2	102.5	102.5	102.5	98.8	94.9	87.2	79.8
80°	68.4	68.4	68.4	68.4	64.5	64.5	64.5	60.8	60.8	53.1	45.5
82.5°	41.8	41.8	41.8	41.8	41.8	41.8	38.0	38.0	34.1	30.4	26.6
85°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	19.0	19.0	15.1	11.4
87.5°	7.6	7.6	11.4	11.4	11.4	11.4	11.4	11.4	7.6	7.6	7.6
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°	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6
2.5°	3268.5	3272.2	3272.2	3272.2	3283.6	3287.5	3276.1	3264.8	3287.5	3283.6	3291.2
5°	3230.5	3241.9	3249.5	3253.2	3264.8	3272.2	3260.9	3257.1	3276.1	3279.9	3283.6
7.5°	3185.0	3204.0	3223.0	3230.5	3245.8	3253.2	3249.5	3249.5	3272.2	3279.9	3279.9
10°	3154.6	3181.1	3204.0	3223.0	3241.9	3253.2	3253.2	3257.1	3283.6	3291.2	3298.9
12.5°	3147.0	3181.1	3211.5	3238.1	3253.2	3272.2	3276.1	3287.5	3314.0	3325.4	3325.4
15°	3128.0	3173.6	3211.5	3245.8	3268.5	3291.2	3298.9	3321.6	3352.0	3359.6	3367.2
17.5°	3093.9	3139.4	3185.0	3226.8	3257.1	3276.1	3298.9	3321.6	3359.6	3371.0	3374.8
20°	3033.1	3086.2	3131.9	3173.6	3204.0	3230.5	3253.2	3279.9	3314.0	3329.2	3333.0
22.5°	2942.0	2995.1	3040.8	3086.2	3116.6	3139.4	3162.2	3192.6	3226.8	3241.9	3241.9
25°	2831.9	2881.2	2930.6	2964.8	2995.1	3021.8	3033.1	3067.2	3101.5	3120.5	3120.5
27.5°	2691.5	2737.0	2782.6	2820.5	2839.5	2862.2	2881.2	2911.6	2938.2	2953.4	2968.6
30°	2513.0	2558.6	2600.4	2638.4	2661.1	2683.9	2702.9	2725.6	2752.2	2771.2	2775.0
32.5°	2319.5	2357.4	2399.1	2437.1	2459.9	2467.5	2486.5	2509.2	2532.0	2547.2	2551.0
35°	2106.9	2133.5	2160.0	2194.1	2217.0	2217.0	2235.9	2251.1	2270.1	2304.2	2296.6
37.5°	1856.4	1894.2	1913.2	1924.6	1939.9	1955.0	1958.9	1977.8	2000.6	2008.1	2019.5
40°	1621.0	1632.4	1643.8	1643.8	1658.9	1658.9	1658.9	1662.8	1685.5	1689.2	1704.5
42.5°	1385.6	1385.6	1374.2	1362.9	1366.6	1362.9	1343.9	1343.9	1355.2	1370.4	1370.4
45°	1165.4	1138.9	1104.6	1078.1	1059.1	1051.5	1028.8	1028.8	1025.0	1028.8	1044.0
47.5°	979.4	933.9	876.9	823.8	804.8	789.6	755.4	740.2	732.6	736.5	744.0
50°	823.8	774.4	709.9	645.4	611.1	592.2	550.5	523.9	520.1	512.5	527.6
52.5°	709.9	649.1	580.8	504.9	470.8	440.4	394.8	372.0	356.9	356.9	360.6
55°	611.1	546.6	470.8	394.8	360.6	337.9	292.2	261.9	246.8	243.0	254.4
57.5°	527.6	466.9	391.0	315.1	280.9	254.4	208.8	182.2	170.9	163.2	167.0
60°	463.1	402.4	326.5	254.4	224.0	193.6	155.6	125.2	110.1	110.1	113.9
62.5°	402.4	345.5	277.1	208.8	182.2	155.6	113.9	87.2	75.9	72.1	75.9
65°	341.6	288.5	231.6	174.6	148.0	125.2	91.1	68.4	53.1	49.4	53.1
67.5°	277.1	235.4	186.0	140.5	117.6	98.8	68.4	49.4	38.0	34.1	38.0
70°	216.4	178.4	140.5	102.5	87.2	72.1	49.4	38.0	26.6	22.8	26.6
72.5°	155.6	129.1	98.8	72.1	60.8	49.4	34.1	26.6	19.0	15.1	19.0
75°	106.2	87.2	64.5	45.5	38.0	34.1	22.8	15.1	11.4	11.4	11.4
77.5°	68.4	53.1	41.8	30.4	22.8	19.0	11.4	7.6	7.6	7.6	7.6
80°	38.0	30.4	22.8	15.1	11.4	11.4	7.6	7.6	3.8	3.8	3.8
82.5°	22.8	15.1	11.4	7.6	7.6	3.8	3.8	3.8	3.8	3.8	3.8
85°	11.4	7.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	3.8	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°	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6
2.5°	3276.1	3279.9	3268.5	3283.6	3272.2	3287.5	3287.5	3272.2	3276.1	3268.5	3283.6
5°	3268.5	3268.5	3260.9	3272.2	3257.1	3272.2	3268.5	3241.9	3249.5	3234.4	3249.5
7.5°	3268.5	3260.9	3249.5	3260.9	3241.9	3253.2	3238.1	3211.5	3204.0	3185.0	3185.0
10°	3279.9	3268.5	3253.2	3257.1	3238.1	3241.9	3219.1	3181.1	3169.8	3147.0	3139.4
12.5°	3306.5	3295.1	3272.2	3279.9	3253.2	3253.2	3223.0	3177.4	3154.6	3124.2	3116.6
15°	3344.4	3325.4	3298.9	3302.6	3276.1	3260.9	3223.0	3169.8	3139.4	3097.6	3086.2
17.5°	3352.0	3333.0	3298.9	3298.9	3264.8	3245.8	3200.1	3139.4	3101.5	3059.8	3036.9
20°	3310.2	3291.2	3253.2	3249.5	3219.1	3192.6	3143.2	3082.5	3044.5	2999.0	2980.0
22.5°	3223.0	3200.1	3166.0	3162.2	3131.9	3116.6	3063.5	3002.8	2964.8	2919.2	2904.0
25°	3093.9	3082.5	3048.4	3044.5	3018.0	2999.0	2953.4	2896.5	2862.2	2816.8	2801.6
27.5°	2942.0	2930.6	2896.5	2896.5	2866.1	2854.8	2813.0	2759.8	2733.2	2691.5	2672.5
30°	2759.8	2744.6	2725.6	2721.9	2695.2	2683.9	2645.9	2596.6	2570.0	2535.9	2528.2
32.5°	2543.4	2532.0	2520.6	2516.9	2490.2	2478.9	2452.4	2403.0	2380.2	2349.9	2338.4
35°	2292.9	2285.2	2273.9	2270.1	2258.8	2247.4	2220.8	2182.8	2171.4	2148.6	2137.2
37.5°	2004.4	2012.0	2004.4	2004.4	1993.0	1996.8	1974.0	1951.2	1939.9	1924.6	1917.0
40°	1693.1	1708.2	1719.6	1719.6	1715.9	1731.0	1727.2	1708.2	1704.5	1696.9	1693.1
42.5°	1378.0	1385.6	1408.4	1423.5	1419.8	1457.8	1461.5	1476.8	1488.1	1480.5	1484.2
45°	1047.8	1070.5	1100.9	1116.1	1135.0	1184.4	1211.0	1241.4	1267.9	1283.1	1279.2
47.5°	755.4	782.0	816.1	839.0	873.1	933.9	1002.1	1040.1	1078.1	1097.1	1116.1
50°	546.6	573.2	615.0	649.1	671.9	755.4	827.6	876.9	918.6	945.2	964.2
52.5°	383.4	413.8	459.4	489.8	523.9	603.6	687.1	744.0	789.6	823.8	842.8
55°	265.8	299.9	341.6	372.0	410.0	493.5	573.2	634.0	683.2	713.6	736.5
57.5°	186.0	216.4	258.1	284.8	322.6	402.4	482.1	542.9	592.2	622.6	649.1
60°	125.2	155.6	197.4	224.0	254.4	334.0	406.2	470.8	516.2	546.6	573.2
62.5°	87.2	113.9	155.6	182.2	208.8	277.1	345.5	402.4	448.0	482.1	504.9
65°	68.4	91.1	125.2	148.0	174.6	231.6	288.5	337.9	383.4	417.6	432.8
67.5°	49.4	72.1	98.8	117.6	136.6	186.0	235.4	273.4	315.1	341.6	360.6
70°	34.1	49.4	72.1	87.2	102.5	140.5	178.4	212.6	243.0	261.9	277.1
72.5°	26.6	34.1	49.4	60.8	72.1	98.8	129.1	155.6	178.4	193.6	208.8
75°	15.1	22.8	34.1	41.8	49.4	68.4	87.2	106.2	121.5	132.9	140.5
77.5°	7.6	11.4	19.0	22.8	30.4	41.8	57.0	68.4	79.8	87.2	94.9
80°	7.6	7.6	11.4	11.4	15.1	22.8	30.4	38.0	45.5	53.1	57.0
82.5°	3.8	3.8	7.6	7.6	7.6	11.4	15.1	22.8	26.6	30.4	34.1
85°	3.8	3.8	3.8	3.8	3.8	7.6	7.6	11.4	15.1	19.0	19.0
87.5°	0.0	0.0	3.8	3.8	3.8	3.8	3.8	7.6	7.6	7.6	11.4
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: P252616

CATALOG NUMBER: LE\_6B50D010R EC6B30509030 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6	3283.6
2.5°	3272.2	3279.9	3276.1	3283.6	3272.2	3268.5	3276.1	3264.8
5°	3230.5	3234.4	3230.5	3230.5	3223.0	3215.4	3223.0	3211.5
7.5°	3166.0	3166.0	3154.6	3154.6	3139.4	3131.9	3131.9	3128.0
10°	3112.9	3101.5	3090.1	3093.9	3071.1	3063.5	3059.8	3055.9
12.5°	3086.2	3078.6	3059.8	3059.8	3036.9	3029.4	3025.5	3021.8
15°	3055.9	3040.8	3025.5	3021.8	3002.8	2995.1	2991.4	2983.8
17.5°	3002.8	2991.4	2972.4	2972.4	2953.4	2949.6	2942.0	2938.2
20°	2945.9	2930.6	2915.5	2915.5	2892.6	2892.6	2881.2	2885.1
22.5°	2866.1	2854.8	2839.5	2839.5	2820.5	2816.8	2805.4	2801.6
25°	2771.2	2756.0	2744.6	2740.9	2725.6	2718.0	2714.2	2706.6
27.5°	2645.9	2634.5	2623.1	2615.5	2596.6	2592.8	2581.4	2585.1
30°	2490.2	2482.8	2478.9	2471.2	2448.5	2440.9	2440.9	2429.5
32.5°	2319.5	2308.1	2300.5	2289.1	2270.1	2266.2	2254.9	2258.8
35°	2110.6	2095.5	2084.1	2087.9	2065.1	2061.4	2053.8	2057.5
37.5°	1894.2	1879.1	1863.9	1860.1	1841.1	1841.1	1829.8	1829.8
40°	1670.2	1655.1	1647.5	1647.5	1624.8	1628.5	1617.1	1613.4
42.5°	1469.1	1453.9	1450.1	1446.4	1435.0	1431.1	1419.8	1423.5
45°	1279.2	1275.5	1275.5	1267.9	1256.5	1252.8	1256.5	1256.5
47.5°	1112.2	1116.1	1112.2	1112.2	1104.6	1112.2	1104.6	1108.5
50°	971.9	979.4	979.4	979.4	975.6	979.4	979.4	983.2
52.5°	854.1	865.5	861.8	865.5	861.8	869.4	865.5	869.4
55°	751.6	759.2	763.0	766.9	766.9	766.9	766.9	766.9
57.5°	656.8	668.1	671.9	675.8	675.8	683.2	675.8	675.8
60°	580.8	592.2	596.0	599.8	599.8	603.6	596.0	599.8
62.5°	512.5	523.9	523.9	527.6	527.6	527.6	520.1	523.9
65°	444.1	448.0	451.8	451.8	448.0	448.0	444.1	448.0
67.5°	368.2	372.0	368.2	368.2	364.4	364.4	356.9	360.6
70°	284.8	284.8	288.5	284.8	280.9	284.8	280.9	277.1
72.5°	212.6	212.6	212.6	208.8	208.8	205.0	208.8	208.8
75°	144.2	144.2	148.0	148.0	148.0	148.0	144.2	144.2
77.5°	94.9	94.9	94.9	94.9	98.8	94.9	94.9	94.9
80°	60.8	60.8	64.5	64.5	60.8	60.8	60.8	60.8
82.5°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
85°	22.8	22.8	22.8	22.8	19.0	19.0	19.0	19.0
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	7.6	7.6
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)