

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: P252512

Luminaire Tested: **LE\_6B50D010R EC6B30509030 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B50D010R EC6B30509030 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4845.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

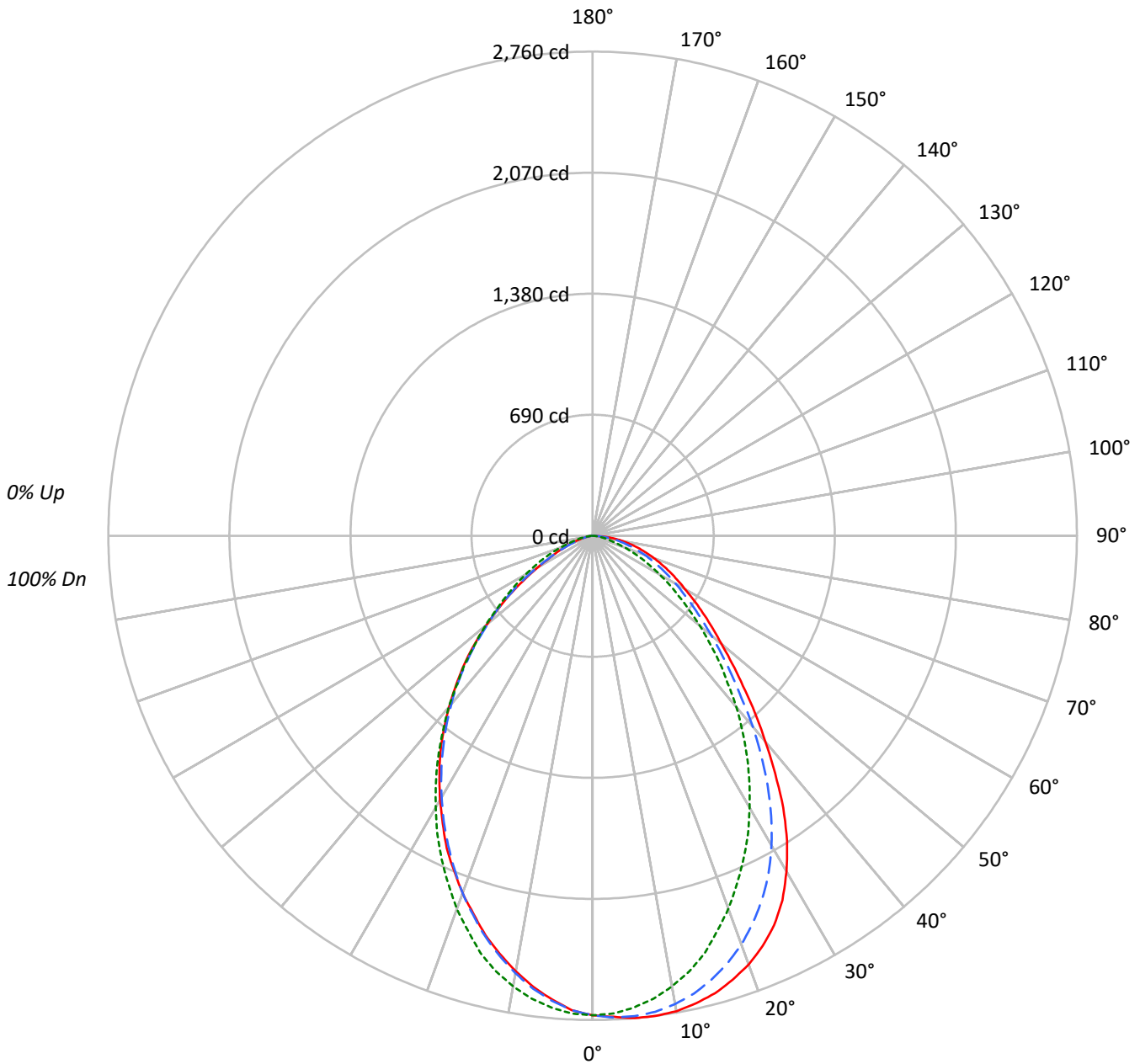
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59				
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53				
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39				
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33				

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

	0°	90°	180°
0°	178316	178316	178316
5°	180745	176764	173784
10°	182325	172772	166996
15°	182303	166410	159230
20°	180540	157087	150491
25°	176263	146475	141559
30°	166442	134696	130975
35°	150878	122142	120645
40°	130295	108629	108314
45°	111732	94571	95272
50°	97091	80913	79766
55°	87230	68223	63913
60°	79254	57464	47052
65°	74423	47470	34579
70°	70959	36929	25351
75°	67933	26770	17242
80°	64208	18560	11421
85°	56815	11303	5689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.7	5.3
10°-20°	700.3	14.5
20°-30°	972.2	20.1
30°-40°	1007.0	20.8
40°-50°	827.5	17.1
50°-60°	568.7	11.7
60°-70°	326.9	6.7
70°-80°	150.3	3.1
80°-90°	36.6	0.8
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°	1928.1	39.8
0°-40°	2935.0	60.6
0°-60°	4331.2	89.4
0°-90°	4845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4845.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2733	2733	2733	2733	2733	
5°	2760	2748	2699	2661	2654	263
15°	2699	2619	2464	2365	2358	760
25°	2449	2285	2035	1948	1966	1120
35°	1894	1739	1534	1488	1515	1175
45°	1211	1120	1025	1014	1033	943
55°	767	695	600	566	562	690
65°	482	421	308	216	224	480
75°	270	213	106	68	68	285
85°	76	53	15	8	8	85
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°	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2
2.5°	2744.6	2767.5	2752.2	2748.5	2756.1	2756.1	2756.1	2744.6	2752.2	2740.9	2748.5
5°	2759.9	2778.9	2763.6	2756.1	2763.6	2767.5	2756.1	2748.5	2759.9	2744.6	2748.5
7.5°	2759.9	2778.9	2763.6	2759.9	2763.6	2763.6	2759.9	2744.6	2752.2	2737.1	2737.1
10°	2752.2	2767.5	2752.2	2744.6	2748.5	2744.6	2744.6	2725.8	2729.5	2710.5	2710.5
12.5°	2729.5	2748.5	2729.5	2721.9	2721.9	2721.9	2710.5	2695.4	2699.1	2676.4	2672.5
15°	2699.1	2714.4	2695.4	2687.8	2687.8	2684.0	2676.4	2653.6	2653.6	2630.8	2619.4
17.5°	2653.6	2668.8	2653.6	2642.1	2638.4	2630.8	2623.2	2600.4	2592.9	2566.2	2554.9
20°	2600.4	2611.9	2596.6	2585.2	2577.6	2570.0	2554.9	2532.1	2524.5	2497.9	2479.0
22.5°	2532.1	2547.2	2524.5	2513.1	2505.5	2494.1	2479.0	2456.1	2444.8	2410.6	2387.9
25°	2448.6	2456.1	2437.2	2425.8	2410.6	2403.0	2391.6	2361.2	2349.9	2311.9	2285.4
27.5°	2342.2	2349.9	2327.1	2319.5	2300.5	2292.9	2277.8	2251.1	2236.0	2198.0	2171.5
30°	2209.4	2217.0	2201.9	2190.4	2175.2	2160.1	2148.6	2122.1	2099.4	2061.4	2038.6
32.5°	2061.4	2072.8	2057.6	2042.4	2015.8	2019.6	2000.6	1974.0	1955.1	1920.9	1894.4
35°	1894.4	1901.9	1883.0	1879.1	1864.0	1848.8	1829.8	1810.8	1799.4	1761.5	1738.6
37.5°	1708.2	1727.2	1708.2	1693.1	1685.5	1674.1	1662.8	1636.1	1628.6	1605.8	1575.5
40°	1529.9	1541.2	1529.9	1514.8	1503.4	1503.4	1488.1	1473.0	1454.0	1431.1	1419.8
42.5°	1370.5	1362.9	1359.0	1351.5	1336.2	1332.5	1328.6	1309.8	1298.4	1275.5	1256.5
45°	1211.0	1214.8	1207.2	1203.4	1192.0	1184.4	1176.9	1161.6	1157.9	1135.1	1119.9
47.5°	1078.1	1074.4	1066.8	1066.8	1059.1	1051.5	1044.0	1032.6	1028.8	1009.8	994.6
50°	956.6	960.5	956.6	952.9	941.5	937.6	930.1	922.5	914.9	895.9	880.8
52.5°	858.0	854.1	850.4	850.4	839.0	835.1	827.6	820.0	812.4	793.4	782.0
55°	766.9	766.9	763.0	759.2	747.9	744.1	740.2	732.6	721.2	706.1	694.8
57.5°	683.4	683.4	679.5	675.8	668.1	668.1	660.5	653.0	645.4	630.1	615.0
60°	607.4	611.2	607.4	603.6	596.0	596.0	592.2	580.9	577.0	558.0	546.6
62.5°	542.9	542.9	542.9	539.1	535.2	527.6	527.6	516.2	508.8	497.2	482.1
65°	482.1	482.1	482.1	478.4	470.8	467.0	463.1	455.5	448.0	436.6	421.4
67.5°	425.1	425.1	425.1	421.4	413.8	410.0	406.2	402.4	391.0	379.6	364.5
70°	372.0	372.0	368.2	364.5	360.6	356.9	353.0	345.5	337.9	322.6	311.2
72.5°	318.9	318.9	318.9	311.2	307.5	307.5	299.9	296.1	288.5	273.4	262.0
75°	269.5	265.8	265.8	262.0	258.1	254.4	250.5	246.8	235.4	227.8	212.6
77.5°	220.1	220.1	216.4	212.6	212.6	208.8	205.0	197.4	193.6	182.2	170.9
80°	170.9	170.9	170.9	170.9	167.0	163.2	163.2	155.6	151.9	140.5	132.9
82.5°	129.1	125.2	125.2	125.2	121.5	117.6	117.6	113.9	110.1	102.5	94.9
85°	75.9	72.1	72.1	72.1	68.4	68.4	64.5	64.5	60.8	53.1	53.1
87.5°	22.8	22.8	26.6	26.6	22.8	22.8	22.8	22.8	22.8	19.0	19.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2
2.5°	2740.9	2752.2	2737.1	2733.2	2748.5	2740.9	2737.1	2729.5	2733.2	2725.8	2714.4
5°	2737.1	2752.2	2733.2	2721.9	2740.9	2729.5	2721.9	2714.4	2714.4	2699.1	2691.5
7.5°	2725.8	2733.2	2714.4	2702.9	2714.4	2702.9	2695.4	2684.0	2680.1	2661.1	2649.8
10°	2695.4	2702.9	2680.1	2665.0	2676.4	2661.1	2649.8	2638.4	2630.8	2608.0	2592.9
12.5°	2653.6	2657.4	2630.8	2611.9	2619.4	2608.0	2589.0	2573.9	2566.2	2543.5	2524.5
15°	2596.6	2600.4	2570.0	2543.5	2551.1	2535.9	2513.1	2497.9	2486.5	2463.8	2437.2
17.5°	2528.2	2524.5	2490.4	2463.8	2467.5	2448.6	2425.8	2403.0	2387.9	2361.2	2342.2
20°	2452.4	2441.0	2403.0	2372.6	2376.5	2353.6	2327.1	2304.4	2285.4	2262.6	2236.0
22.5°	2357.5	2342.2	2308.1	2270.1	2274.0	2255.0	2217.0	2198.0	2179.0	2148.6	2125.9
25°	2255.0	2232.2	2198.0	2160.1	2160.1	2137.2	2106.9	2084.1	2065.1	2034.8	2008.2
27.5°	2133.5	2122.1	2076.5	2046.1	2042.4	2019.6	1993.0	1966.5	1943.6	1917.1	1890.5
30°	2000.6	1981.6	1947.5	1913.2	1905.8	1886.8	1860.1	1829.8	1814.6	1788.0	1765.2
32.5°	1860.1	1841.1	1803.2	1769.0	1765.2	1750.1	1727.2	1696.9	1681.8	1662.8	1647.6
35°	1700.8	1693.1	1655.1	1628.6	1628.6	1613.4	1590.6	1564.0	1552.6	1533.6	1514.8
37.5°	1548.9	1537.5	1503.4	1480.5	1480.5	1461.5	1438.8	1427.4	1416.0	1400.9	1389.4
40°	1389.4	1381.9	1355.2	1332.5	1336.2	1321.1	1305.9	1290.8	1283.1	1275.5	1264.1
42.5°	1241.4	1233.8	1214.8	1195.9	1195.9	1184.4	1169.2	1157.9	1150.2	1138.9	1135.1
45°	1108.5	1097.1	1081.9	1063.0	1063.0	1051.5	1044.0	1036.4	1032.6	1025.0	1013.6
47.5°	979.4	971.9	956.6	937.6	937.6	937.6	922.5	911.1	911.1	903.5	899.8
50°	869.4	858.0	846.6	831.4	831.4	823.8	812.4	801.0	801.0	797.2	789.6
52.5°	766.9	759.2	744.1	728.9	728.9	721.2	709.9	706.1	702.2	690.9	687.1
55°	679.5	671.9	660.5	641.6	637.8	634.0	622.6	615.0	611.2	599.8	599.8
57.5°	599.8	592.2	573.2	561.9	558.0	550.5	539.1	531.5	527.6	520.1	512.5
60°	531.5	520.1	504.9	489.8	485.9	478.4	467.0	459.4	455.5	440.4	432.8
62.5°	467.0	455.5	440.4	425.1	421.4	413.8	398.6	391.0	383.4	368.2	360.6
65°	406.2	394.8	379.6	364.5	356.9	353.0	337.9	326.5	318.9	307.5	292.2
67.5°	349.2	337.9	322.6	303.8	303.8	292.2	280.9	269.5	258.1	246.8	235.4
70°	296.1	284.8	269.5	254.4	250.5	243.0	231.6	216.4	208.8	193.6	182.2
72.5°	246.8	235.4	220.1	205.0	201.2	193.6	182.2	167.0	155.6	144.2	132.9
75°	201.2	189.8	174.6	163.2	159.5	151.9	140.5	125.2	113.9	106.2	94.9
77.5°	159.5	148.0	136.6	125.2	121.5	113.9	102.5	94.9	83.5	75.9	64.5
80°	121.5	113.9	102.5	94.9	91.1	83.5	75.9	64.5	57.0	49.4	45.5
82.5°	87.4	79.8	72.1	60.8	60.8	53.1	49.4	41.8	34.1	30.4	26.6
85°	49.4	41.8	38.0	34.1	30.4	30.4	26.6	22.8	19.0	15.1	15.1
87.5°	15.1	15.1	11.4	11.4	11.4	11.4	7.6	7.6	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2
2.5°	2714.4	2718.1	2710.5	2718.1	2710.5	2714.4	2706.8	2714.4	2706.8	2714.4	2699.1
5°	2687.8	2687.8	2676.4	2684.0	2676.4	2680.1	2665.0	2668.8	2661.1	2668.8	2653.6
7.5°	2642.1	2646.0	2627.0	2634.6	2623.2	2623.2	2611.9	2615.6	2604.2	2608.0	2596.6
10°	2589.0	2585.2	2566.2	2573.9	2558.6	2558.6	2547.2	2547.2	2532.1	2535.9	2520.8
12.5°	2513.1	2509.4	2486.5	2494.1	2479.0	2479.0	2467.5	2467.5	2452.4	2460.0	2444.8
15°	2425.8	2422.0	2399.2	2403.0	2387.9	2387.9	2372.6	2376.5	2365.0	2372.6	2357.5
17.5°	2327.1	2323.2	2300.5	2304.4	2285.4	2289.1	2277.8	2274.0	2266.4	2270.1	2258.8
20°	2224.6	2217.0	2194.2	2198.0	2190.4	2179.0	2171.5	2175.2	2167.6	2175.2	2163.9
22.5°	2118.2	2103.1	2084.1	2084.1	2076.5	2076.5	2065.1	2072.8	2057.6	2069.0	2061.4
25°	1996.9	1985.4	1970.2	1977.9	1962.6	1962.6	1951.2	1955.1	1947.5	1955.1	1947.5
27.5°	1879.1	1871.5	1848.8	1856.4	1845.0	1848.8	1837.4	1841.1	1837.4	1845.0	1837.4
30°	1753.9	1750.1	1734.9	1734.9	1731.1	1727.2	1723.5	1723.5	1719.8	1731.1	1723.5
32.5°	1636.1	1624.8	1609.6	1621.0	1602.0	1613.4	1605.8	1613.4	1605.8	1613.4	1609.6
35°	1514.8	1510.9	1491.9	1495.8	1491.9	1491.9	1488.1	1488.1	1488.1	1499.5	1499.5
37.5°	1385.6	1381.9	1370.5	1374.2	1366.6	1362.9	1362.9	1370.5	1370.5	1378.0	1378.0
40°	1260.4	1264.1	1252.8	1252.8	1249.0	1249.0	1249.0	1256.5	1252.8	1260.4	1256.5
42.5°	1135.1	1135.1	1123.8	1127.5	1123.8	1127.5	1127.5	1135.1	1135.1	1138.9	1135.1
45°	1017.4	1017.4	1013.6	1017.4	1009.8	1013.6	1009.8	1017.4	1013.6	1017.4	1017.4
47.5°	899.8	899.8	899.8	895.9	895.9	895.9	895.9	895.9	892.1	899.8	895.9
50°	789.6	793.4	789.6	789.6	785.9	789.6	785.9	785.9	778.2	782.0	782.0
52.5°	690.9	690.9	683.4	683.4	683.4	679.5	679.5	679.5	675.8	675.8	668.1
55°	596.0	596.0	588.4	588.4	584.6	580.9	577.0	577.0	565.6	565.6	554.2
57.5°	508.8	504.9	493.5	493.5	485.9	482.1	478.4	474.5	467.0	459.4	455.5
60°	429.0	421.4	413.8	410.0	402.4	394.8	387.2	379.6	372.0	368.2	364.5
62.5°	353.0	341.6	334.1	330.2	322.6	311.2	303.8	296.1	288.5	284.8	277.1
65°	284.8	273.4	262.0	258.1	250.5	243.0	231.6	224.0	216.4	212.6	212.6
67.5°	224.0	212.6	197.4	197.4	189.8	182.2	174.6	167.0	163.2	167.0	167.0
70°	167.0	159.5	148.0	144.2	136.6	129.1	125.2	125.2	125.2	129.1	125.2
72.5°	125.2	113.9	106.2	102.5	98.8	94.9	94.9	94.9	91.1	94.9	94.9
75°	87.4	79.8	72.1	72.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4
77.5°	60.8	53.1	49.4	49.4	49.4	45.5	45.5	45.5	45.5	45.5	45.5
80°	38.0	38.0	34.1	34.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4
82.5°	22.8	22.8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
85°	11.4	11.4	11.4	11.4	11.4	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	3.8	3.8	3.8	3.8	3.8	7.6	7.6	7.6	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





TEST NUMBER: P252512

CATALOG NUMBER: LE\_6B50D010R EC6B30509030 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2
2.5°	2699.1	2710.5	2695.4	2706.8	2702.9	2699.1	2691.5	2706.8
5°	2653.6	2657.4	2642.1	2657.4	2653.6	2646.0	2638.4	2653.6
7.5°	2589.0	2600.4	2581.5	2596.6	2592.9	2585.2	2577.6	2592.9
10°	2516.9	2528.2	2513.1	2524.5	2524.5	2516.9	2505.5	2520.8
12.5°	2437.2	2444.8	2429.6	2444.8	2441.0	2433.4	2429.6	2441.0
15°	2349.9	2361.2	2346.1	2357.5	2353.6	2349.9	2346.1	2357.5
17.5°	2255.0	2266.4	2255.0	2266.4	2266.4	2255.0	2251.1	2258.8
20°	2160.1	2167.6	2156.2	2167.6	2163.9	2163.9	2156.2	2167.6
22.5°	2053.8	2065.1	2057.6	2065.1	2061.4	2061.4	2057.6	2065.1
25°	1947.5	1958.9	1947.5	1958.9	1955.1	1955.1	1947.5	1966.5
27.5°	1841.1	1848.8	1837.4	1852.6	1848.8	1841.1	1845.0	1848.8
30°	1727.2	1734.9	1727.2	1738.6	1738.6	1738.6	1731.1	1738.6
32.5°	1613.4	1624.8	1613.4	1624.8	1621.0	1621.0	1617.2	1624.8
35°	1499.5	1503.4	1495.8	1507.1	1507.1	1510.9	1503.4	1514.8
37.5°	1381.9	1385.6	1381.9	1385.6	1393.2	1381.9	1389.4	1393.2
40°	1260.4	1268.0	1264.1	1268.0	1268.0	1271.8	1268.0	1271.8
42.5°	1138.9	1146.5	1138.9	1150.2	1146.5	1146.5	1150.2	1150.2
45°	1013.6	1025.0	1017.4	1025.0	1028.8	1025.0	1025.0	1032.6
47.5°	895.9	903.5	899.8	903.5	903.5	903.5	903.5	911.1
50°	778.2	782.0	782.0	785.9	785.9	789.6	782.0	785.9
52.5°	660.5	668.1	668.1	668.1	664.4	668.1	668.1	668.1
55°	554.2	558.0	550.5	558.0	558.0	554.2	554.2	561.9
57.5°	451.8	451.8	451.8	451.8	451.8	448.0	451.8	451.8
60°	356.9	360.6	356.9	356.9	356.9	356.9	353.0	360.6
62.5°	277.1	277.1	273.4	277.1	277.1	277.1	280.9	280.9
65°	216.4	220.1	216.4	220.1	220.1	220.1	220.1	224.0
67.5°	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9
70°	129.1	129.1	129.1	132.9	129.1	129.1	129.1	132.9
72.5°	94.9	94.9	94.9	94.9	94.9	94.9	98.8	98.8
75°	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
77.5°	45.5	45.5	45.5	49.4	45.5	49.4	45.5	45.5
80°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
82.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
85°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	7.6	7.6	7.6	7.6	3.8	3.8	3.8	3.8
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)