

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: P252411

Luminaire Tested: **LE\_6B50D010R EC6B30509050 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B50D010R EC6B30509050 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5265.1 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

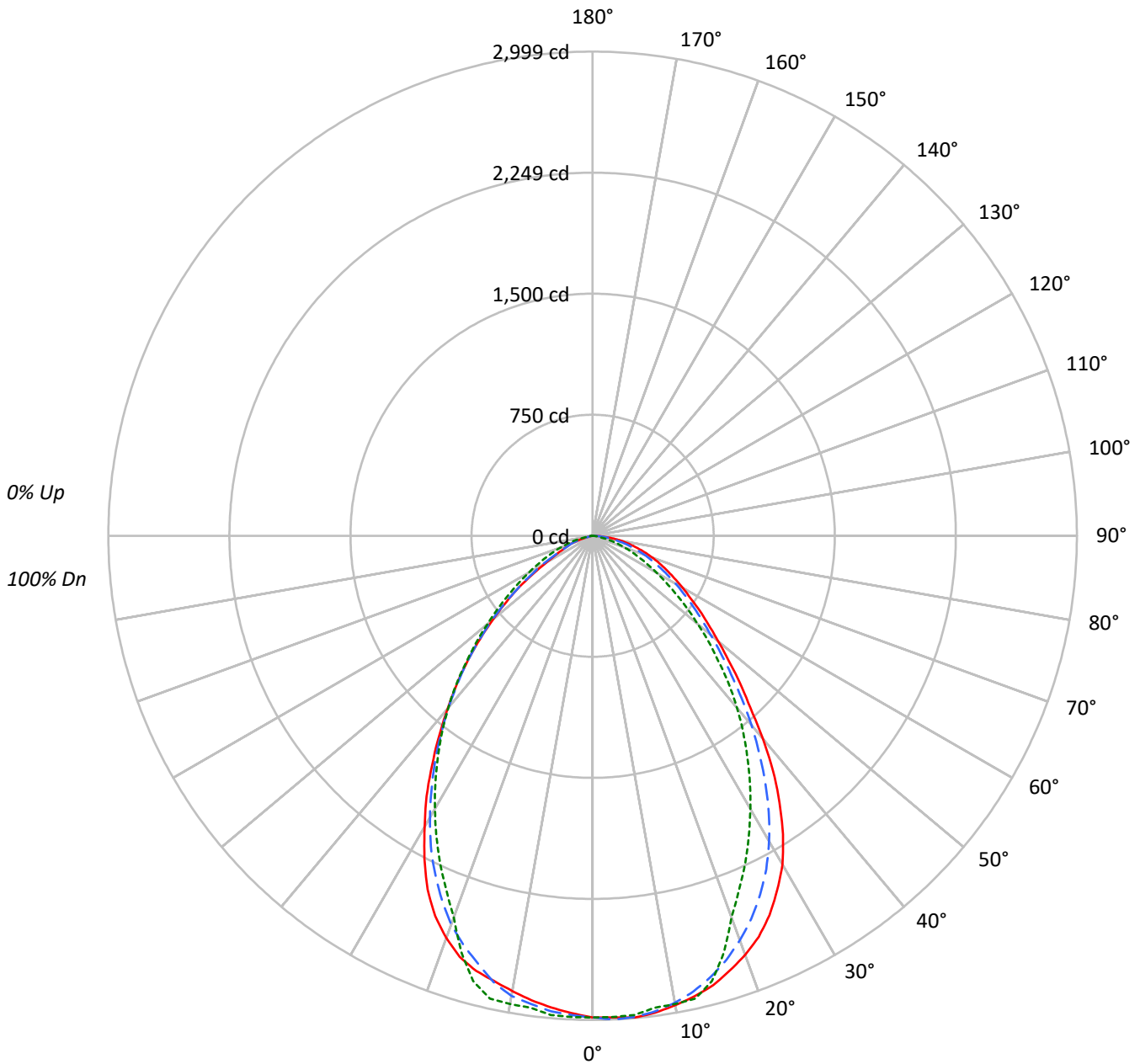
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68								
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60								
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44								
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40								
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33								

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

	0°	90°	180°
0°	194626	194626	194626
5°	196136	195120	192075
10°	195575	195064	189672
15°	194690	192860	188409
20°	191787	174569	183983
25°	186578	160923	174024
30°	177154	147096	156731
35°	160762	132998	137928
40°	139578	118457	118789
45°	119030	101869	100799
50°	103019	86120	81400
55°	92110	71829	63014
60°	83912	59643	42472
65°	78344	49060	31708
70°	74622	39905	26610
75°	70328	28333	8797
80°	66951	14577	2931
85°	55093	8683	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.7	5.4
10°-20°	787.9	15.0
20°-30°	1087.6	20.7
30°-40°	1106.7	21.0
40°-50°	889.4	16.9
50°-60°	591.4	11.2
60°-70°	337.0	6.4
70°-80°	151.4	2.9
80°-90°	31.9	0.6
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°	2157.2	41.0
0°-40°	3263.9	62.0
0°-60°	4744.8	90.1
0°-90°	5265.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5265.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2983	2983	2983	2983	2983	
5°	2995	2991	2979	2956	2933	284
15°	2882	2828	2855	2743	2790	811
25°	2592	2452	2236	2309	2418	1188
35°	2018	1864	1670	1701	1732	1254
45°	1290	1213	1104	1092	1092	1000
55°	810	756	632	562	554	728
65°	508	453	318	205	205	506
75°	279	232	112	46	35	298
85°	74	50	12	4	0	87
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°	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2
2.5°	2987.1	3002.6	2998.8	2994.9	2998.8	2994.9	2987.1	2987.1	2979.4	2979.4	2998.8
5°	2994.9	3002.6	2998.8	2994.9	2994.9	2998.8	2983.2	2983.2	2975.5	2971.6	2991.0
7.5°	2979.4	2991.0	2983.2	2983.2	2979.4	2983.2	2967.8	2967.8	2956.1	2952.2	2971.6
10°	2952.2	2967.8	2960.0	2960.0	2960.0	2952.2	2944.5	2940.6	2929.0	2925.1	2936.8
12.5°	2921.2	2932.9	2929.0	2921.2	2921.2	2921.2	2905.8	2901.9	2886.4	2878.6	2890.2
15°	2882.5	2890.2	2886.4	2882.5	2874.8	2874.8	2859.2	2851.5	2836.0	2820.5	2828.2
17.5°	2824.4	2836.0	2828.2	2824.4	2812.8	2812.8	2797.2	2789.5	2766.2	2750.8	2754.6
20°	2762.4	2766.2	2762.4	2754.6	2743.0	2739.1	2723.6	2708.1	2688.8	2669.4	2665.5
22.5°	2688.8	2692.6	2681.0	2673.2	2661.6	2657.8	2638.4	2626.8	2595.8	2572.5	2568.6
25°	2591.9	2595.8	2595.8	2576.4	2568.6	2560.9	2541.5	2522.1	2495.0	2464.0	2452.4
27.5°	2475.6	2487.2	2479.5	2460.1	2444.6	2440.8	2421.4	2405.9	2371.0	2343.9	2328.5
30°	2351.6	2347.8	2343.9	2332.4	2309.1	2305.2	2285.9	2266.5	2239.4	2204.5	2185.1
32.5°	2192.9	2192.9	2189.0	2177.4	2154.1	2146.4	2130.9	2107.6	2076.6	2049.5	2030.1
35°	2018.5	2022.4	2018.5	1995.2	1979.8	1972.0	1964.2	1937.1	1910.0	1879.0	1863.5
37.5°	1836.4	1824.8	1828.6	1809.2	1789.9	1797.6	1774.4	1762.8	1731.8	1708.5	1693.0
40°	1638.9	1646.6	1631.1	1623.4	1611.8	1600.1	1600.1	1580.8	1565.2	1538.1	1530.4
42.5°	1445.1	1456.8	1452.9	1445.1	1429.6	1433.5	1414.1	1406.4	1387.0	1375.4	1363.8
45°	1290.1	1290.1	1290.1	1282.4	1278.5	1270.8	1259.1	1247.5	1235.9	1220.4	1212.6
47.5°	1139.0	1139.0	1142.9	1135.1	1127.4	1123.5	1115.8	1115.8	1096.4	1080.9	1073.1
50°	1015.0	1015.0	1015.0	1007.2	999.6	999.6	991.9	984.1	972.5	960.9	953.1
52.5°	902.8	902.8	902.8	895.0	891.1	887.2	883.4	879.5	864.0	856.2	848.5
55°	809.8	805.9	805.9	802.0	794.2	794.2	790.4	782.6	771.0	759.4	755.5
57.5°	716.8	720.6	716.8	716.8	709.0	709.0	701.2	697.4	685.8	678.0	670.2
60°	643.1	643.1	643.1	639.2	631.5	635.4	627.6	623.8	612.1	600.5	592.8
62.5°	569.5	573.4	573.4	569.5	561.8	561.8	557.9	554.0	542.4	530.8	519.1
65°	507.5	507.5	507.5	503.6	499.8	499.8	495.9	492.0	480.4	464.9	453.2
67.5°	449.4	445.5	445.5	445.5	441.6	437.8	433.9	430.0	418.4	406.8	391.2
70°	391.2	391.2	391.2	387.4	379.6	383.5	379.6	375.8	364.1	352.5	340.9
72.5°	337.0	337.0	333.2	329.4	329.4	325.5	325.5	321.6	310.0	294.5	282.9
75°	279.0	279.0	279.0	279.0	271.2	275.1	267.4	263.5	255.8	244.1	232.5
77.5°	228.6	228.6	228.6	224.8	220.9	220.9	217.0	213.1	201.5	193.8	178.2
80°	178.2	178.2	178.2	178.2	174.4	170.5	166.6	162.8	155.0	143.4	131.8
82.5°	131.8	131.8	127.9	127.9	127.9	124.0	120.1	116.2	108.5	100.8	93.0
85°	73.6	77.5	77.5	69.8	73.6	69.8	69.8	62.0	62.0	54.2	50.4
87.5°	27.1	23.2	23.2	23.2	23.2	23.2	23.2	19.4	19.4	19.4	15.5
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°	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2
2.5°	2983.2	2979.4	2994.9	2994.9	2971.6	2983.2	2987.1	2979.4	2979.4	2983.2	2971.6
5°	2975.5	2967.8	2983.2	2987.1	2963.9	2975.5	2979.4	2971.6	2975.5	2979.4	2963.9
7.5°	2948.4	2948.4	2960.0	2963.9	2940.6	2952.2	2952.2	2944.5	2948.4	2948.4	2936.8
10°	2921.2	2909.6	2921.2	2921.2	2901.9	2905.8	2913.5	2909.6	2925.1	2944.5	2944.5
12.5°	2870.9	2859.2	2878.6	2878.6	2867.0	2882.5	2901.9	2913.5	2929.0	2936.8	2913.5
15°	2808.9	2812.8	2847.6	2874.8	2863.1	2886.4	2905.8	2898.0	2878.6	2855.4	2820.5
17.5°	2727.5	2715.9	2746.9	2762.4	2746.9	2754.6	2770.1	2754.6	2723.6	2704.2	2657.8
20°	2634.5	2603.5	2603.5	2595.8	2568.6	2568.6	2564.8	2537.6	2526.0	2514.4	2495.0
22.5°	2529.9	2495.0	2483.4	2460.1	2436.9	2433.0	2421.4	2394.2	2378.8	2371.0	2347.8
25°	2409.8	2378.8	2359.4	2336.2	2301.4	2293.6	2282.0	2254.9	2247.1	2235.5	2216.1
27.5°	2285.9	2247.1	2220.0	2196.8	2165.8	2161.9	2138.6	2119.2	2103.8	2096.0	2080.5
30°	2142.5	2099.9	2080.5	2049.5	2026.2	2018.5	1999.1	1972.0	1960.4	1952.6	1941.0
32.5°	1983.6	1948.8	1929.4	1902.2	1871.2	1875.1	1851.9	1828.6	1820.9	1813.1	1801.5
35°	1828.6	1793.8	1770.5	1747.2	1727.9	1720.1	1704.6	1685.2	1673.8	1669.9	1662.1
37.5°	1658.2	1631.1	1611.8	1588.5	1573.0	1565.2	1557.5	1538.1	1530.4	1530.4	1514.9
40°	1491.6	1468.4	1452.9	1441.2	1421.9	1418.0	1410.2	1398.6	1394.8	1390.9	1379.2
42.5°	1340.5	1309.5	1297.9	1290.1	1278.5	1270.8	1266.9	1259.1	1255.2	1251.4	1239.8
45°	1197.1	1170.0	1158.4	1150.6	1139.0	1135.1	1131.2	1119.6	1111.9	1104.1	1100.2
47.5°	1057.6	1038.2	1034.4	1015.0	1007.2	999.6	991.9	984.1	980.2	976.4	960.9
50°	937.6	926.0	906.6	895.0	887.2	883.4	867.9	856.2	852.4	848.5	836.9
52.5°	829.1	813.6	802.0	782.6	778.8	771.0	763.2	747.8	740.0	736.1	724.5
55°	732.2	720.6	705.1	689.6	678.0	674.1	662.5	647.0	639.2	631.5	623.8
57.5°	650.9	631.5	616.0	600.5	592.8	581.1	569.5	561.8	550.1	538.5	526.9
60°	573.4	557.9	538.5	523.0	515.2	507.5	492.0	480.4	468.8	457.1	445.5
62.5°	499.8	484.2	464.9	449.4	441.6	433.9	418.4	406.8	395.1	383.5	368.0
65°	433.9	418.4	402.9	387.4	379.6	371.9	356.4	340.9	329.4	317.8	302.2
67.5°	379.6	360.2	344.8	329.4	321.6	313.9	298.4	286.8	271.2	259.6	244.1
70°	321.6	306.1	294.5	279.0	271.2	263.5	248.0	232.5	220.9	209.2	193.8
72.5°	271.2	251.9	240.2	224.8	217.0	213.1	197.6	186.0	174.4	158.9	147.2
75°	217.0	201.5	186.0	174.4	166.6	162.8	147.2	135.6	124.0	112.4	100.8
77.5°	166.6	155.0	139.5	127.9	120.1	116.2	100.8	89.1	77.5	69.8	58.1
80°	124.0	108.5	100.8	89.1	85.2	77.5	69.8	58.1	50.4	38.8	31.0
82.5°	85.2	73.6	65.9	58.1	54.2	50.4	42.6	34.9	27.1	23.2	19.4
85°	46.5	38.8	34.9	31.0	27.1	27.1	23.2	19.4	15.5	11.6	7.8
87.5°	15.5	11.6	11.6	11.6	11.6	7.8	7.8	7.8	3.9	3.9	3.9
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°	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2
2.5°	2979.4	2979.4	2979.4	2975.5	2975.5	2975.5	2971.6	2987.1	2971.6	2967.8	2979.4
5°	2975.5	2967.8	2967.8	2967.8	2967.8	2963.9	2960.0	2967.8	2956.1	2952.2	2952.2
7.5°	2952.2	2948.4	2948.4	2944.5	2940.6	2936.8	2932.9	2936.8	2925.1	2921.2	2921.2
10°	2956.1	2948.4	2948.4	2936.8	2929.0	2917.4	2905.8	2909.6	2894.1	2882.5	2882.5
12.5°	2909.6	2890.2	2878.6	2867.0	2859.2	2855.4	2839.9	2847.6	2832.1	2828.2	2828.2
15°	2805.0	2781.8	2762.4	2754.6	2754.6	2746.9	2735.2	2750.8	2743.0	2746.9	2766.2
17.5°	2642.2	2630.6	2619.0	2615.1	2619.0	2626.8	2634.5	2657.8	2657.8	2669.4	2688.8
20°	2498.9	2491.1	2498.9	2498.9	2502.8	2518.2	2533.8	2553.1	2560.9	2572.5	2599.6
22.5°	2359.4	2359.4	2367.1	2378.8	2374.9	2402.0	2405.9	2440.8	2440.8	2464.0	2487.2
25°	2223.9	2223.9	2231.6	2235.5	2243.2	2258.8	2274.2	2301.4	2309.1	2332.4	2351.6
27.5°	2092.1	2088.2	2088.2	2092.1	2099.9	2119.2	2127.0	2158.0	2169.6	2185.1	2204.5
30°	1944.9	1941.0	1948.8	1956.5	1952.6	1972.0	1983.6	2006.9	2014.6	2030.1	2045.6
32.5°	1805.4	1805.4	1805.4	1813.1	1813.1	1828.6	1828.6	1855.8	1855.8	1867.4	1882.9
35°	1662.1	1662.1	1666.0	1669.9	1673.8	1677.5	1681.4	1696.9	1700.8	1704.6	1712.4
37.5°	1526.5	1522.6	1526.5	1526.5	1518.8	1534.2	1534.2	1549.8	1538.1	1549.8	1553.6
40°	1387.0	1387.0	1383.1	1383.1	1383.1	1390.9	1383.1	1394.8	1387.0	1394.8	1390.9
42.5°	1243.6	1243.6	1235.9	1243.6	1239.8	1239.8	1239.8	1247.5	1235.9	1243.6	1247.5
45°	1100.2	1096.4	1096.4	1092.5	1092.5	1092.5	1096.4	1096.4	1092.5	1100.2	1100.2
47.5°	960.9	957.0	957.0	957.0	957.0	960.9	949.2	957.0	949.2	949.2	949.2
50°	840.8	836.9	833.0	829.1	825.2	825.2	821.4	821.4	813.6	809.8	805.9
52.5°	724.5	720.6	712.9	712.9	709.0	705.1	693.5	693.5	681.9	678.0	678.0
55°	619.9	608.2	604.4	596.6	596.6	588.9	581.1	573.4	561.8	554.0	554.0
57.5°	523.0	511.4	503.6	499.8	495.9	488.1	472.6	468.8	453.2	449.4	445.5
60°	437.8	426.1	414.5	406.8	402.9	391.2	375.8	368.0	360.2	348.6	337.0
62.5°	356.4	344.8	329.4	325.5	317.8	306.1	294.5	282.9	275.1	263.5	255.8
65°	286.8	275.1	263.5	255.8	248.0	236.4	224.8	213.1	205.4	201.5	197.6
67.5°	232.5	217.0	205.4	201.5	193.8	186.0	174.4	170.5	162.8	162.8	162.8
70°	182.1	170.5	158.9	155.0	151.1	143.4	135.6	135.6	135.6	135.6	135.6
72.5°	135.6	127.9	116.2	112.4	108.5	104.6	96.9	100.8	96.9	96.9	96.9
75°	85.2	77.5	69.8	65.9	62.0	58.1	54.2	50.4	46.5	42.6	42.6
77.5°	46.5	38.8	34.9	31.0	31.0	27.1	23.2	23.2	19.4	19.4	19.4
80°	27.1	23.2	19.4	15.5	15.5	11.6	11.6	11.6	11.6	7.8	7.8
82.5°	15.5	11.6	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	3.9
85°	7.8	7.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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: P252411

CATALOG NUMBER: LE\_6B50D010R EC6B30509050 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2	2983.2
2.5°	2960.0	2971.6	2960.0	2971.6	2971.6	2971.6	2971.6	2960.0
5°	2940.6	2948.4	2936.8	2944.5	2948.4	2944.5	2944.5	2932.9
7.5°	2905.8	2913.5	2901.9	2913.5	2917.4	2913.5	2909.6	2901.9
10°	2870.9	2874.8	2863.1	2870.9	2878.6	2878.6	2874.8	2863.1
12.5°	2816.6	2828.2	2816.6	2824.4	2832.1	2836.0	2836.0	2824.4
15°	2754.6	2774.0	2766.2	2777.9	2789.5	2793.4	2793.4	2789.5
17.5°	2692.6	2712.0	2700.4	2719.8	2731.4	2739.1	2743.0	2735.2
20°	2603.5	2626.8	2619.0	2634.5	2650.0	2661.6	2661.6	2650.0
22.5°	2487.2	2518.2	2514.4	2526.0	2545.4	2549.2	2557.0	2549.2
25°	2359.4	2382.6	2378.8	2390.4	2413.6	2413.6	2417.5	2417.5
27.5°	2212.2	2235.5	2231.6	2239.4	2254.9	2258.8	2262.6	2254.9
30°	2053.4	2065.0	2065.0	2076.6	2088.2	2092.1	2092.1	2080.5
32.5°	1879.0	1894.5	1902.2	1898.4	1910.0	1917.8	1913.9	1913.9
35°	1720.1	1724.0	1727.9	1731.8	1735.6	1743.4	1735.6	1731.8
37.5°	1549.8	1561.4	1553.6	1561.4	1569.1	1565.2	1561.4	1561.4
40°	1394.8	1398.6	1390.9	1398.6	1402.5	1402.5	1402.5	1394.8
42.5°	1239.8	1247.5	1239.8	1247.5	1247.5	1247.5	1247.5	1243.6
45°	1084.8	1092.5	1092.5	1096.4	1096.4	1092.5	1092.5	1092.5
47.5°	941.5	949.2	941.5	949.2	953.1	945.4	945.4	945.4
50°	805.9	802.0	802.0	805.9	805.9	805.9	805.9	802.0
52.5°	666.4	670.2	670.2	670.2	674.1	670.2	674.1	674.1
55°	546.2	546.2	546.2	550.1	546.2	546.2	550.1	554.0
57.5°	437.8	433.9	430.0	430.0	433.9	430.0	430.0	430.0
60°	337.0	333.2	329.4	329.4	329.4	329.4	329.4	325.5
62.5°	251.9	251.9	251.9	255.8	255.8	255.8	255.8	259.6
65°	201.5	201.5	201.5	201.5	201.5	201.5	201.5	205.4
67.5°	162.8	162.8	162.8	166.6	166.6	166.6	166.6	166.6
70°	135.6	135.6	139.5	135.6	139.5	139.5	139.5	139.5
72.5°	93.0	93.0	93.0	93.0	93.0	89.1	93.0	89.1
75°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	34.9
77.5°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	0.0	0.0	0.0
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)