

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: P252408

Luminaire Tested: **LE\_6B50D010R EC6B30509030 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252408  
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 EC6B30509030 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS 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: 5160.0 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

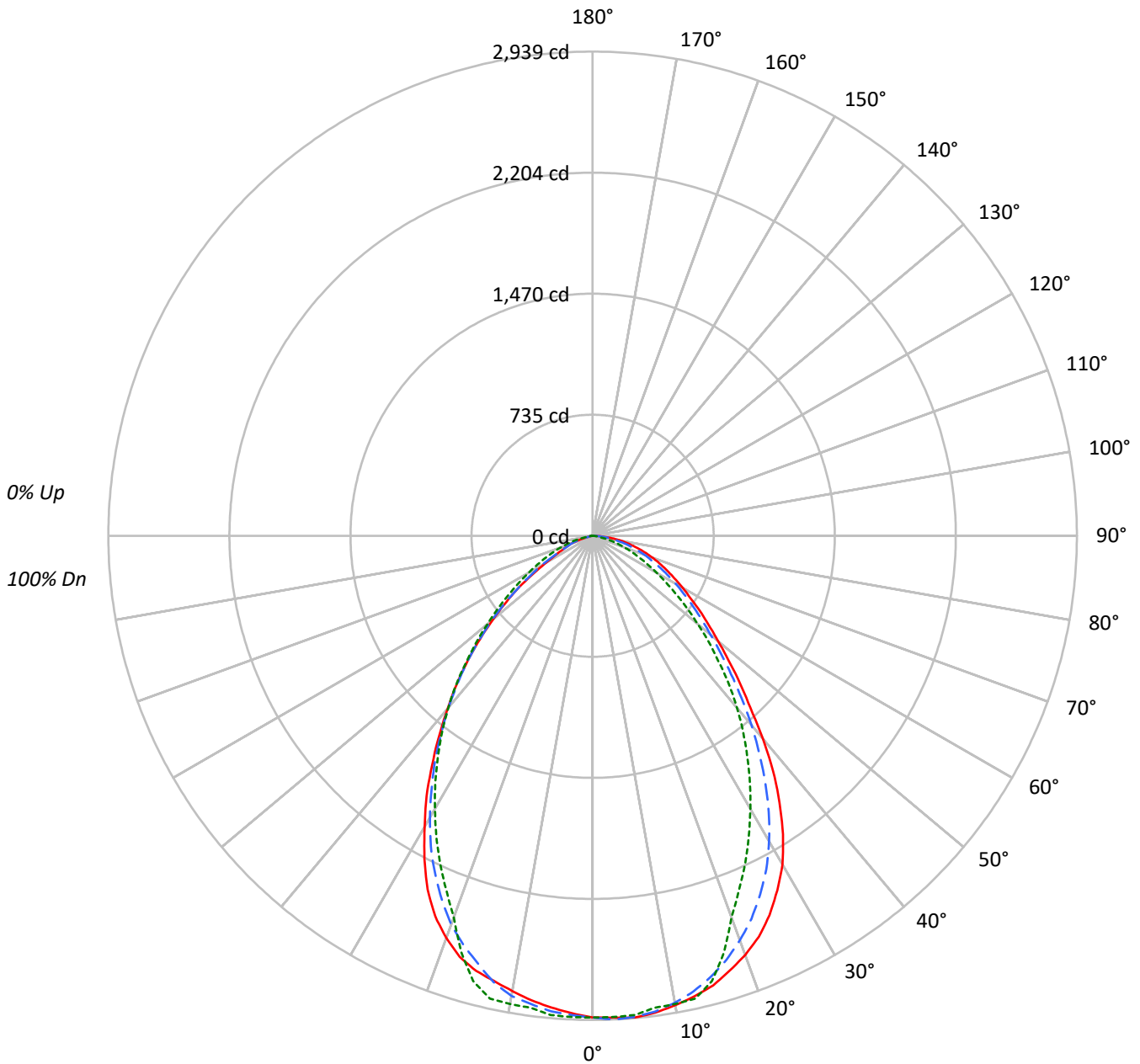
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

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

	0°	90°	180°
0°	190751	190751	190751
5°	192219	191224	188244
10°	191679	191176	185889
15°	190806	189010	184653
20°	187954	171084	180310
25°	182856	157712	170561
30°	173628	144173	153605
35°	157552	130338	135172
40°	136784	116089	116413
45°	116659	99839	98796
50°	100979	84394	79776
55°	90267	70396	61763
60°	82229	58456	41624
65°	76785	48072	31060
70°	73153	39104	26095
75°	68916	27753	8596
80°	65598	14277	2855
85°	53971	8533	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.1	5.4
10°-20°	772.2	15.0
20°-30°	1065.9	20.7
30°-40°	1084.6	21.0
40°-50°	871.7	16.9
50°-60°	579.6	11.2
60°-70°	330.3	6.4
70°-80°	148.4	2.9
80°-90°	31.2	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°	2114.2	41.0
0°-40°	3198.8	62.0
0°-60°	4650.1	90.1
0°-90°	5160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5160.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2924	2924	2924	2924	2924	
5°	2935	2931	2920	2897	2874	279
15°	2825	2772	2798	2688	2734	795
25°	2540	2404	2191	2263	2369	1164
35°	1978	1826	1636	1667	1697	1229
45°	1264	1188	1082	1071	1071	981
55°	794	740	619	551	543	713
65°	497	444	311	201	201	495
75°	273	228	110	46	34	292
85°	72	49	11	4	0	86
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°	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8
2.5°	2927.5	2942.6	2938.9	2935.1	2938.9	2935.1	2927.5	2927.5	2919.9	2919.9	2938.9
5°	2935.1	2942.6	2938.9	2935.1	2935.1	2938.9	2923.8	2923.8	2916.1	2912.2	2931.2
7.5°	2919.9	2931.2	2923.8	2923.8	2919.9	2923.8	2908.5	2908.5	2897.1	2893.4	2912.2
10°	2893.4	2908.5	2900.9	2900.9	2900.9	2893.4	2885.8	2881.9	2870.5	2866.8	2878.1
12.5°	2863.0	2874.4	2870.5	2863.0	2863.0	2863.0	2847.8	2844.0	2828.8	2821.1	2832.6
15°	2825.0	2832.6	2828.8	2825.0	2817.4	2817.4	2802.2	2794.6	2779.4	2764.2	2771.9
17.5°	2768.0	2779.4	2771.9	2768.0	2756.6	2756.6	2741.5	2733.9	2711.1	2695.9	2699.6
20°	2707.2	2711.1	2707.2	2699.6	2688.2	2684.5	2669.2	2654.1	2635.1	2616.1	2612.4
22.5°	2635.1	2638.9	2627.5	2620.0	2608.5	2604.8	2585.8	2574.4	2544.0	2521.2	2517.4
25°	2540.2	2544.0	2544.0	2525.0	2517.4	2509.9	2490.9	2471.9	2445.2	2414.9	2403.5
27.5°	2426.2	2437.6	2430.1	2411.1	2395.9	2392.1	2373.1	2358.0	2323.8	2297.2	2282.0
30°	2304.8	2301.0	2297.2	2285.8	2263.0	2259.2	2240.2	2221.2	2194.6	2160.5	2141.5
32.5°	2149.1	2149.1	2145.2	2133.9	2111.1	2103.5	2088.4	2065.6	2035.2	2008.6	1989.6
35°	1978.2	1982.0	1978.2	1955.5	1940.2	1932.6	1925.1	1898.5	1871.9	1841.5	1826.4
37.5°	1799.8	1788.4	1792.2	1773.2	1754.2	1761.9	1739.0	1727.6	1697.2	1674.5	1659.2
40°	1606.1	1613.8	1598.5	1591.0	1579.5	1568.1	1568.1	1549.1	1534.0	1507.4	1499.9
42.5°	1416.2	1427.6	1423.9	1416.2	1401.1	1404.9	1385.9	1378.4	1359.4	1348.0	1336.5
45°	1264.4	1264.4	1264.4	1256.8	1253.0	1245.4	1234.0	1222.6	1211.2	1196.0	1188.5
47.5°	1116.4	1116.4	1120.1	1112.5	1104.9	1101.1	1093.5	1093.5	1074.5	1059.4	1051.8
50°	994.9	994.9	994.9	987.2	979.6	979.6	972.0	964.5	953.0	941.6	934.1
52.5°	884.8	884.8	884.8	877.1	873.4	869.5	865.8	861.9	846.8	839.1	831.5
55°	793.6	789.8	789.8	786.0	778.4	778.4	774.6	767.0	755.6	744.2	740.4
57.5°	702.5	706.2	702.5	702.5	694.9	694.9	687.2	683.5	672.1	664.5	656.9
60°	630.2	630.2	630.2	626.5	618.9	622.8	615.1	611.4	599.9	588.5	581.0
62.5°	558.1	562.0	562.0	558.1	550.6	550.6	546.8	543.0	531.6	520.2	508.8
65°	497.4	497.4	497.4	493.6	489.9	489.9	486.0	482.2	470.9	455.6	444.2
67.5°	440.5	436.6	436.6	436.6	432.9	429.0	425.2	421.5	410.1	398.6	383.5
70°	383.5	383.5	383.5	379.8	372.1	375.9	372.1	368.2	356.9	345.5	334.1
72.5°	330.4	330.4	326.5	322.8	322.8	319.0	319.0	315.1	303.8	288.6	277.1
75°	273.4	273.4	273.4	273.4	265.8	269.6	262.0	258.2	250.6	239.2	227.9
77.5°	224.0	224.0	224.0	220.2	216.4	216.4	212.6	208.9	197.5	189.9	174.6
80°	174.6	174.6	174.6	174.6	170.9	167.1	163.2	159.5	151.9	140.5	129.1
82.5°	129.1	129.1	125.2	125.2	125.2	121.5	117.8	113.9	106.4	98.8	91.1
85°	72.1	76.0	76.0	68.4	72.1	68.4	68.4	60.8	60.8	53.1	49.4
87.5°	26.6	22.8	22.8	22.8	22.8	22.8	22.8	19.0	19.0	19.0	15.2
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°	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8
2.5°	2923.8	2919.9	2935.1	2935.1	2912.2	2923.8	2927.5	2919.9	2919.9	2923.8	2912.2
5°	2916.1	2908.5	2923.8	2927.5	2904.8	2916.1	2919.9	2912.2	2916.1	2919.9	2904.8
7.5°	2889.5	2889.5	2900.9	2904.8	2881.9	2893.4	2893.4	2885.8	2889.5	2889.5	2878.1
10°	2863.0	2851.5	2863.0	2863.0	2844.0	2847.8	2855.4	2851.5	2866.8	2885.8	2885.8
12.5°	2813.6	2802.2	2821.1	2821.1	2809.8	2825.0	2844.0	2855.4	2870.5	2878.1	2855.4
15°	2752.9	2756.6	2790.8	2817.4	2806.0	2828.8	2847.8	2840.1	2821.1	2798.4	2764.2
17.5°	2673.1	2661.8	2692.1	2707.2	2692.1	2699.6	2714.9	2699.6	2669.2	2650.4	2604.8
20°	2582.0	2551.6	2551.6	2544.0	2517.4	2517.4	2513.6	2487.0	2475.6	2464.2	2445.2
22.5°	2479.5	2445.2	2433.9	2411.1	2388.4	2384.5	2373.1	2346.5	2331.4	2323.8	2301.0
25°	2361.8	2331.4	2312.4	2289.6	2255.4	2247.9	2236.5	2209.9	2202.2	2190.9	2171.9
27.5°	2240.2	2202.2	2175.8	2152.9	2122.5	2118.8	2096.0	2077.0	2061.8	2054.1	2039.0
30°	2099.8	2058.0	2039.0	2008.6	1985.9	1978.2	1959.2	1932.6	1921.2	1913.8	1902.2
32.5°	1944.1	1909.9	1890.9	1864.4	1834.0	1837.8	1815.0	1792.2	1784.6	1777.0	1765.6
35°	1792.2	1758.0	1735.2	1712.5	1693.5	1685.9	1670.6	1651.8	1640.2	1636.5	1628.9
37.5°	1625.1	1598.5	1579.5	1556.8	1541.6	1534.0	1526.4	1507.4	1499.9	1499.9	1484.6
40°	1461.9	1439.1	1423.9	1412.5	1393.5	1389.8	1382.1	1370.8	1366.9	1363.1	1351.8
42.5°	1313.8	1283.4	1272.0	1264.4	1253.0	1245.4	1241.6	1234.0	1230.2	1226.4	1215.0
45°	1173.2	1146.8	1135.2	1127.8	1116.4	1112.5	1108.8	1097.4	1089.8	1082.1	1078.4
47.5°	1036.6	1017.6	1013.8	994.9	987.2	979.6	972.0	964.5	960.6	956.9	941.6
50°	918.9	907.5	888.5	877.1	869.5	865.8	850.5	839.1	835.4	831.5	820.1
52.5°	812.5	797.4	786.0	767.0	763.2	755.6	748.0	732.9	725.2	721.4	710.0
55°	717.6	706.2	691.0	675.9	664.5	660.6	649.2	634.1	626.5	618.9	611.4
57.5°	637.9	618.9	603.8	588.5	581.0	569.5	558.1	550.6	539.1	527.8	516.4
60°	562.0	546.8	527.8	512.6	505.0	497.4	482.2	470.9	459.5	448.0	436.6
62.5°	489.9	474.6	455.6	440.5	432.9	425.2	410.1	398.6	387.2	375.9	360.8
65°	425.2	410.1	394.9	379.8	372.1	364.5	349.4	334.1	322.8	311.4	296.1
67.5°	372.1	353.1	337.9	322.8	315.1	307.5	292.4	281.0	265.8	254.4	239.2
70°	315.1	300.0	288.6	273.4	265.8	258.2	243.0	227.9	216.4	205.0	189.9
72.5°	265.8	246.8	235.4	220.2	212.6	208.9	193.6	182.2	170.9	155.6	144.2
75°	212.6	197.5	182.2	170.9	163.2	159.5	144.2	132.9	121.5	110.1	98.8
77.5°	163.2	151.9	136.8	125.2	117.8	113.9	98.8	87.4	76.0	68.4	57.0
80°	121.5	106.4	98.8	87.4	83.5	76.0	68.4	57.0	49.4	38.0	30.4
82.5°	83.5	72.1	64.5	57.0	53.1	49.4	41.8	34.1	26.6	22.8	19.0
85°	45.6	38.0	34.1	30.4	26.6	26.6	22.8	19.0	15.2	11.4	7.6
87.5°	15.2	11.4	11.4	11.4	11.4	7.6	7.6	7.6	3.8	3.8	3.8
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°	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8
2.5°	2919.9	2919.9	2919.9	2916.1	2916.1	2916.1	2912.2	2927.5	2912.2	2908.5	2919.9
5°	2916.1	2908.5	2908.5	2908.5	2908.5	2904.8	2900.9	2908.5	2897.1	2893.4	2893.4
7.5°	2893.4	2889.5	2889.5	2885.8	2881.9	2878.1	2874.4	2878.1	2866.8	2863.0	2863.0
10°	2897.1	2889.5	2889.5	2878.1	2870.5	2859.1	2847.8	2851.5	2836.4	2825.0	2825.0
12.5°	2851.5	2832.6	2821.1	2809.8	2802.2	2798.4	2783.2	2790.8	2775.6	2771.9	2771.9
15°	2749.0	2726.2	2707.2	2699.6	2699.6	2692.1	2680.8	2695.9	2688.2	2692.1	2711.1
17.5°	2589.5	2578.1	2566.8	2563.0	2566.8	2574.4	2582.0	2604.8	2604.8	2616.1	2635.1
20°	2449.1	2441.5	2449.1	2449.1	2452.9	2468.0	2483.2	2502.2	2509.9	2521.2	2547.8
22.5°	2312.4	2312.4	2320.0	2331.4	2327.6	2354.1	2358.0	2392.1	2392.1	2414.9	2437.6
25°	2179.5	2179.5	2187.1	2190.9	2198.5	2213.6	2228.9	2255.4	2263.0	2285.8	2304.8
27.5°	2050.4	2046.6	2046.6	2050.4	2058.0	2077.0	2084.5	2114.9	2126.4	2141.5	2160.5
30°	1906.1	1902.2	1909.9	1917.5	1913.8	1932.6	1944.1	1966.9	1974.5	1989.6	2004.9
32.5°	1769.4	1769.4	1769.4	1777.0	1777.0	1792.2	1792.2	1818.8	1818.8	1830.1	1845.4
35°	1628.9	1628.9	1632.8	1636.5	1640.2	1644.1	1647.9	1663.1	1666.9	1670.6	1678.2
37.5°	1496.0	1492.2	1496.0	1496.0	1488.4	1503.6	1503.6	1518.8	1507.4	1518.8	1522.6
40°	1359.4	1359.4	1355.5	1355.5	1355.5	1363.1	1355.5	1366.9	1359.4	1366.9	1363.1
42.5°	1218.9	1218.9	1211.2	1218.9	1215.0	1215.0	1215.0	1222.6	1211.2	1218.9	1222.6
45°	1078.4	1074.5	1074.5	1070.8	1070.8	1070.8	1074.5	1074.5	1070.8	1078.4	1078.4
47.5°	941.6	937.9	937.9	937.9	937.9	941.6	930.2	937.9	930.2	930.2	930.2
50°	824.0	820.1	816.4	812.5	808.8	808.8	805.0	805.0	797.4	793.6	789.8
52.5°	710.0	706.2	698.6	698.6	694.9	691.0	679.6	679.6	668.2	664.5	664.5
55°	607.5	596.1	592.4	584.8	584.8	577.1	569.5	562.0	550.6	543.0	543.0
57.5°	512.6	501.2	493.6	489.9	486.0	478.4	463.2	459.5	444.2	440.5	436.6
60°	429.0	417.6	406.2	398.6	394.9	383.5	368.2	360.8	353.1	341.8	330.4
62.5°	349.4	337.9	322.8	319.0	311.4	300.0	288.6	277.1	269.6	258.2	250.6
65°	281.0	269.6	258.2	250.6	243.0	231.6	220.2	208.9	201.2	197.5	193.6
67.5°	227.9	212.6	201.2	197.5	189.9	182.2	170.9	167.1	159.5	159.5	159.5
70°	178.5	167.1	155.6	151.9	148.1	140.5	132.9	132.9	132.9	132.9	132.9
72.5°	132.9	125.2	113.9	110.1	106.4	102.5	94.9	98.8	94.9	94.9	94.9
75°	83.5	76.0	68.4	64.5	60.8	57.0	53.1	49.4	45.6	41.8	41.8
77.5°	45.6	38.0	34.1	30.4	30.4	26.6	22.8	22.8	19.0	19.0	19.0
80°	26.6	22.8	19.0	15.2	15.2	11.4	11.4	11.4	11.4	7.6	7.6
82.5°	15.2	11.4	7.6	7.6	7.6	7.6	3.8	3.8	3.8	3.8	3.8
85°	7.6	7.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	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	0.0	0.0	0.0





TEST NUMBER: P252408

CATALOG NUMBER: LE\_6B50D010R EC6B30509030 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8
2.5°	2900.9	2912.2	2900.9	2912.2	2912.2	2912.2	2912.2	2900.9
5°	2881.9	2889.5	2878.1	2885.8	2889.5	2885.8	2885.8	2874.4
7.5°	2847.8	2855.4	2844.0	2855.4	2859.1	2855.4	2851.5	2844.0
10°	2813.6	2817.4	2806.0	2813.6	2821.1	2821.1	2817.4	2806.0
12.5°	2760.4	2771.9	2760.4	2768.0	2775.6	2779.4	2779.4	2768.0
15°	2699.6	2718.6	2711.1	2722.5	2733.9	2737.6	2737.6	2733.9
17.5°	2638.9	2657.9	2646.5	2665.5	2676.9	2684.5	2688.2	2680.8
20°	2551.6	2574.4	2566.8	2582.0	2597.1	2608.5	2608.5	2597.1
22.5°	2437.6	2468.0	2464.2	2475.6	2494.6	2498.4	2506.0	2498.4
25°	2312.4	2335.1	2331.4	2342.8	2365.5	2365.5	2369.4	2369.4
27.5°	2168.1	2190.9	2187.1	2194.6	2209.9	2213.6	2217.5	2209.9
30°	2012.4	2023.8	2023.8	2035.2	2046.6	2050.4	2050.4	2039.0
32.5°	1841.5	1856.8	1864.4	1860.5	1871.9	1879.5	1875.8	1875.8
35°	1685.9	1689.6	1693.5	1697.2	1701.0	1708.6	1701.0	1697.2
37.5°	1518.8	1530.2	1522.6	1530.2	1537.8	1534.0	1530.2	1530.2
40°	1366.9	1370.8	1363.1	1370.8	1374.5	1374.5	1374.5	1366.9
42.5°	1215.0	1222.6	1215.0	1222.6	1222.6	1222.6	1222.6	1218.9
45°	1063.1	1070.8	1070.8	1074.5	1074.5	1070.8	1070.8	1070.8
47.5°	922.6	930.2	922.6	930.2	934.1	926.5	926.5	926.5
50°	789.8	786.0	786.0	789.8	789.8	789.8	789.8	786.0
52.5°	653.1	656.9	656.9	656.9	660.6	656.9	660.6	660.6
55°	535.4	535.4	535.4	539.1	535.4	535.4	539.1	543.0
57.5°	429.0	425.2	421.5	421.5	425.2	421.5	421.5	421.5
60°	330.4	326.5	322.8	322.8	322.8	322.8	322.8	319.0
62.5°	246.8	246.8	246.8	250.6	250.6	250.6	250.6	254.4
65°	197.5	197.5	197.5	197.5	197.5	197.5	197.5	201.2
67.5°	159.5	159.5	159.5	163.2	163.2	163.2	163.2	163.2
70°	132.9	132.9	136.8	132.9	136.8	136.8	136.8	136.8
72.5°	91.1	91.1	91.1	91.1	91.1	87.4	91.1	87.4
75°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	34.1
77.5°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
80°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	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)