

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: P252419

Luminaire Tested: **LE\_6B60D010R EC6B60709024 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252419  
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\_6B60D010R EC6B60709024 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS 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: 4877.5 lumens  
Efficiency: N/A  
Efficacy: 78.0 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

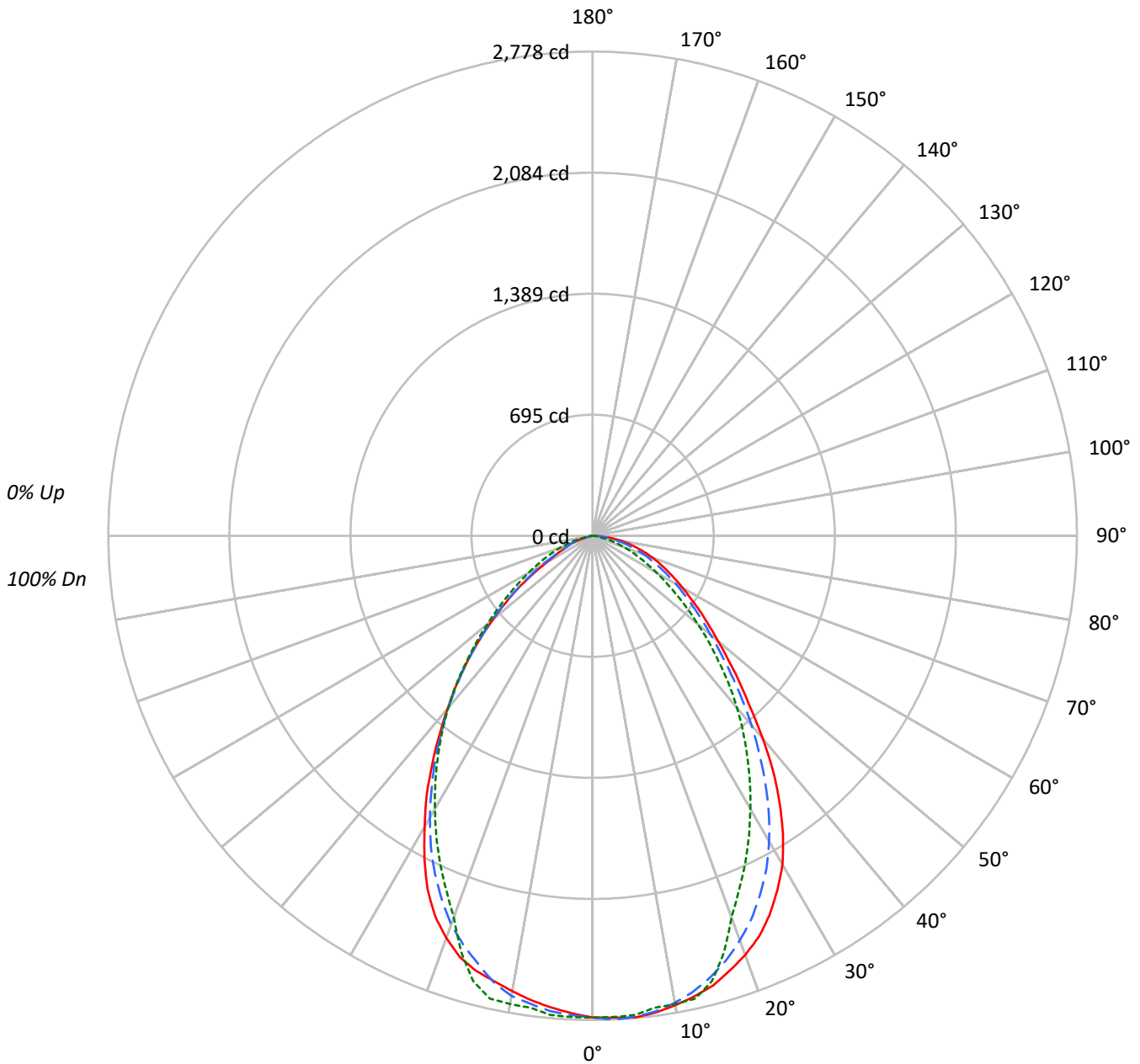
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	180299	180299	180299
5°	181695	180752	177936
10°	181179	180709	175714
15°	180364	178662	174535
20°	177665	161725	170445
25°	172843	149074	161218
30°	164121	136271	145198
35°	148934	123201	127781
40°	129298	109736	110042
45°	110265	94377	93381
50°	95447	79776	75412
55°	85319	66540	58373
60°	77741	55259	39340
65°	72571	45416	29362
70°	69147	36987	24645
75°	65135	26241	8117
80°	62029	13488	2668
85°	51051	8084	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.0	5.4
10°-20°	729.9	15.0
20°-30°	1007.5	20.7
30°-40°	1025.3	21.0
40°-50°	824.0	16.9
50°-60°	547.9	11.2
60°-70°	312.2	6.4
70°-80°	140.2	2.9
80°-90°	29.5	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°	1998.4	41.0
0°-40°	3023.7	62.0
0°-60°	4395.5	90.1
0°-90°	4877.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4877.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2764	2764	2764	2764	2764	
5°	2774	2771	2760	2738	2717	263
15°	2670	2620	2645	2541	2584	751
25°	2401	2272	2071	2139	2240	1100
35°	1870	1726	1547	1576	1604	1162
45°	1195	1123	1023	1012	1012	927
55°	750	700	585	520	513	674
65°	470	420	294	190	190	468
75°	258	215	104	43	32	276
85°	68	47	11	4	0	81
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°	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6
2.5°	2767.2	2781.6	2778.0	2774.4	2778.0	2774.4	2767.2	2767.2	2760.0	2760.0	2778.0
5°	2774.4	2781.6	2778.0	2774.4	2774.4	2778.0	2763.6	2763.6	2756.5	2752.9	2770.8
7.5°	2760.0	2770.8	2763.6	2763.6	2760.0	2763.6	2749.2	2749.2	2738.5	2734.9	2752.9
10°	2734.9	2749.2	2742.1	2742.1	2742.1	2734.9	2727.8	2724.1	2713.4	2709.8	2720.6
12.5°	2706.2	2717.0	2713.4	2706.2	2706.2	2706.2	2691.9	2688.2	2673.9	2666.8	2677.5
15°	2670.4	2677.5	2673.9	2670.4	2663.1	2663.1	2648.8	2641.6	2627.2	2612.9	2620.1
17.5°	2616.5	2627.2	2620.1	2616.5	2605.8	2605.8	2591.4	2584.1	2562.6	2548.2	2551.9
20°	2559.0	2562.6	2559.0	2551.9	2541.1	2537.5	2523.1	2508.8	2490.9	2472.9	2469.4
22.5°	2490.9	2494.5	2483.6	2476.5	2465.8	2462.1	2444.2	2433.4	2404.8	2383.1	2379.6
25°	2401.1	2404.8	2404.8	2386.8	2379.6	2372.4	2354.5	2336.5	2311.4	2282.8	2271.9
27.5°	2293.5	2304.2	2297.0	2279.1	2264.8	2261.1	2243.2	2228.9	2196.5	2171.4	2157.1
30°	2178.6	2175.0	2171.4	2160.6	2139.1	2135.5	2117.6	2099.6	2074.5	2042.2	2024.2
32.5°	2031.5	2031.5	2027.9	2017.1	1995.5	1988.4	1974.0	1952.5	1923.8	1898.6	1880.8
35°	1870.0	1873.5	1870.0	1848.4	1834.0	1826.9	1819.8	1794.6	1769.5	1740.8	1726.4
37.5°	1701.2	1690.5	1694.1	1676.1	1658.1	1665.4	1643.9	1633.0	1604.4	1582.8	1568.5
40°	1518.2	1525.4	1511.0	1503.9	1493.1	1482.2	1482.2	1464.4	1450.0	1424.9	1417.8
42.5°	1338.8	1349.5	1345.9	1338.8	1324.4	1328.0	1310.0	1302.9	1284.9	1274.1	1263.4
45°	1195.1	1195.1	1195.1	1188.0	1184.4	1177.2	1166.5	1155.8	1144.9	1130.6	1123.4
47.5°	1055.2	1055.2	1058.8	1051.6	1044.5	1040.9	1033.6	1033.6	1015.8	1001.4	994.2
50°	940.4	940.4	940.4	933.1	926.0	926.0	918.9	911.6	900.9	890.1	882.9
52.5°	836.2	836.2	836.2	829.1	825.5	821.9	818.4	814.8	800.4	793.2	786.0
55°	750.1	746.5	746.5	743.0	735.8	735.8	732.1	725.0	714.2	703.5	699.9
57.5°	664.0	667.6	664.0	664.0	656.8	656.8	649.6	646.0	635.2	628.1	620.9
60°	595.8	595.8	595.8	592.2	585.0	588.6	581.5	577.9	567.1	556.4	549.1
62.5°	527.6	531.2	531.2	527.6	520.4	520.4	516.9	513.2	502.5	491.8	481.0
65°	470.1	470.1	470.1	466.6	463.0	463.0	459.4	455.9	445.0	430.8	419.9
67.5°	416.4	412.8	412.8	412.8	409.1	405.6	402.0	398.4	387.6	376.9	362.5
70°	362.5	362.5	362.5	358.9	351.8	355.4	351.8	348.1	337.4	326.6	315.9
72.5°	312.2	312.2	308.6	305.1	305.1	301.5	301.5	297.9	287.1	272.8	262.0
75°	258.4	258.4	258.4	258.4	251.2	254.9	247.6	244.0	236.9	226.1	215.4
77.5°	211.8	211.8	211.8	208.1	204.6	204.6	201.0	197.4	186.6	179.5	165.1
80°	165.1	165.1	165.1	165.1	161.5	157.9	154.4	150.8	143.6	132.8	122.0
82.5°	122.0	122.0	118.5	118.5	118.5	114.9	111.2	107.6	100.5	93.4	86.1
85°	68.2	71.8	71.8	64.6	68.2	64.6	64.6	57.4	57.4	50.2	46.6
87.5°	25.1	21.5	21.5	21.5	21.5	21.5	21.5	18.0	18.0	18.0	14.4
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°	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6
2.5°	2763.6	2760.0	2774.4	2774.4	2752.9	2763.6	2767.2	2760.0	2760.0	2763.6	2752.9
5°	2756.5	2749.2	2763.6	2767.2	2745.6	2756.5	2760.0	2752.9	2756.5	2760.0	2745.6
7.5°	2731.4	2731.4	2742.1	2745.6	2724.1	2734.9	2734.9	2727.8	2731.4	2731.4	2720.6
10°	2706.2	2695.5	2706.2	2706.2	2688.2	2691.9	2699.0	2695.5	2709.8	2727.8	2727.8
12.5°	2659.5	2648.8	2666.8	2666.8	2656.0	2670.4	2688.2	2699.0	2713.4	2720.6	2699.0
15°	2602.1	2605.8	2638.0	2663.1	2652.4	2673.9	2691.9	2684.6	2666.8	2645.2	2612.9
17.5°	2526.8	2516.0	2544.8	2559.0	2544.8	2551.9	2566.2	2551.9	2523.1	2505.2	2462.1
20°	2440.6	2411.9	2411.9	2404.8	2379.6	2379.6	2376.0	2350.9	2340.1	2329.4	2311.4
22.5°	2343.8	2311.4	2300.6	2279.1	2257.6	2254.0	2243.2	2218.1	2203.8	2196.5	2175.0
25°	2232.5	2203.8	2185.8	2164.2	2132.0	2124.8	2114.0	2088.9	2081.8	2070.9	2053.0
27.5°	2117.6	2081.8	2056.6	2035.0	2006.4	2002.8	1981.2	1963.2	1948.9	1941.8	1927.4
30°	1984.8	1945.2	1927.4	1898.6	1877.1	1870.0	1852.0	1826.9	1816.1	1808.9	1798.1
32.5°	1837.6	1805.4	1787.4	1762.2	1733.5	1737.1	1715.6	1694.1	1686.9	1679.8	1669.0
35°	1694.1	1661.8	1640.2	1618.8	1600.8	1593.6	1579.2	1561.2	1550.5	1546.9	1539.8
37.5°	1536.1	1511.0	1493.1	1471.5	1457.2	1450.0	1442.9	1424.9	1417.8	1417.8	1403.4
40°	1381.9	1360.2	1345.9	1335.1	1317.2	1313.6	1306.5	1295.6	1292.1	1288.5	1277.8
42.5°	1241.9	1213.1	1202.4	1195.1	1184.4	1177.2	1173.6	1166.5	1162.9	1159.2	1148.5
45°	1109.0	1083.9	1073.1	1066.0	1055.2	1051.6	1048.0	1037.2	1030.1	1022.9	1019.4
47.5°	979.9	961.9	958.2	940.4	933.1	926.0	918.9	911.6	908.0	904.5	890.1
50°	868.6	857.8	839.9	829.1	821.9	818.4	804.0	793.2	789.6	786.0	775.2
52.5°	768.1	753.8	743.0	725.0	721.4	714.2	707.0	692.8	685.5	681.9	671.1
55°	678.4	667.6	653.2	638.9	628.1	624.5	613.8	599.4	592.2	585.0	577.9
57.5°	603.0	585.0	570.6	556.4	549.1	538.4	527.6	520.4	509.6	498.9	488.1
60°	531.2	516.9	498.9	484.5	477.4	470.1	455.9	445.0	434.2	423.5	412.8
62.5°	463.0	448.6	430.8	416.4	409.1	402.0	387.6	376.9	366.1	355.4	341.0
65°	402.0	387.6	373.2	358.9	351.8	344.5	330.2	315.9	305.1	294.2	280.0
67.5°	351.8	333.8	319.4	305.1	297.9	290.8	276.4	265.6	251.2	240.5	226.1
70°	297.9	283.5	272.8	258.4	251.2	244.0	229.8	215.4	204.6	193.9	179.5
72.5°	251.2	233.2	222.5	208.1	201.0	197.4	183.0	172.2	161.5	147.1	136.4
75°	201.0	186.6	172.2	161.5	154.4	150.8	136.4	125.6	114.9	104.1	93.4
77.5°	154.4	143.6	129.2	118.5	111.2	107.6	93.4	82.5	71.8	64.6	53.9
80°	114.9	100.5	93.4	82.5	79.0	71.8	64.6	53.9	46.6	35.9	28.8
82.5°	79.0	68.2	61.0	53.9	50.2	46.6	39.5	32.2	25.1	21.5	18.0
85°	43.1	35.9	32.2	28.8	25.1	25.1	21.5	18.0	14.4	10.8	7.1
87.5°	14.4	10.8	10.8	10.8	10.8	7.1	7.1	7.1	3.6	3.6	3.6
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°	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6
2.5°	2760.0	2760.0	2760.0	2756.5	2756.5	2756.5	2752.9	2767.2	2752.9	2749.2	2760.0
5°	2756.5	2749.2	2749.2	2749.2	2749.2	2745.6	2742.1	2749.2	2738.5	2734.9	2734.9
7.5°	2734.9	2731.4	2731.4	2727.8	2724.1	2720.6	2717.0	2720.6	2709.8	2706.2	2706.2
10°	2738.5	2731.4	2731.4	2720.6	2713.4	2702.6	2691.9	2695.5	2681.1	2670.4	2670.4
12.5°	2695.5	2677.5	2666.8	2656.0	2648.8	2645.2	2630.9	2638.0	2623.6	2620.1	2620.1
15°	2598.5	2577.0	2559.0	2551.9	2551.9	2544.8	2533.9	2548.2	2541.1	2544.8	2562.6
17.5°	2447.8	2437.0	2426.2	2422.6	2426.2	2433.4	2440.6	2462.1	2462.1	2472.9	2490.9
20°	2315.0	2307.8	2315.0	2315.0	2318.6	2332.9	2347.2	2365.2	2372.4	2383.1	2408.2
22.5°	2185.8	2185.8	2193.0	2203.8	2200.1	2225.2	2228.9	2261.1	2261.1	2282.8	2304.2
25°	2060.1	2060.1	2067.4	2070.9	2078.1	2092.5	2106.9	2132.0	2139.1	2160.6	2178.6
27.5°	1938.1	1934.5	1934.5	1938.1	1945.2	1963.2	1970.4	1999.1	2009.9	2024.2	2042.2
30°	1801.8	1798.1	1805.4	1812.5	1808.9	1826.9	1837.6	1859.1	1866.4	1880.8	1895.0
32.5°	1672.5	1672.5	1672.5	1679.8	1679.8	1694.1	1694.1	1719.2	1719.2	1730.0	1744.4
35°	1539.8	1539.8	1543.4	1546.9	1550.5	1554.1	1557.6	1572.0	1575.6	1579.2	1586.4
37.5°	1414.1	1410.5	1414.1	1414.1	1407.0	1421.2	1421.2	1435.6	1424.9	1435.6	1439.2
40°	1284.9	1284.9	1281.4	1281.4	1281.4	1288.5	1281.4	1292.1	1284.9	1292.1	1288.5
42.5°	1152.1	1152.1	1144.9	1152.1	1148.5	1148.5	1148.5	1155.8	1144.9	1152.1	1155.8
45°	1019.4	1015.8	1015.8	1012.1	1012.1	1012.1	1015.8	1015.8	1012.1	1019.4	1019.4
47.5°	890.1	886.5	886.5	886.5	886.5	890.1	879.4	886.5	879.4	879.4	879.4
50°	778.9	775.2	771.6	768.1	764.5	764.5	760.9	760.9	753.8	750.1	746.5
52.5°	671.1	667.6	660.4	660.4	656.8	653.2	642.5	642.5	631.6	628.1	628.1
55°	574.2	563.5	559.9	552.8	552.8	545.5	538.4	531.2	520.4	513.2	513.2
57.5°	484.5	473.8	466.6	463.0	459.4	452.2	437.9	434.2	419.9	416.4	412.8
60°	405.6	394.8	384.0	376.9	373.2	362.5	348.1	341.0	333.8	323.0	312.2
62.5°	330.2	319.4	305.1	301.5	294.2	283.5	272.8	262.0	254.9	244.0	236.9
65°	265.6	254.9	244.0	236.9	229.8	218.9	208.1	197.4	190.2	186.6	183.0
67.5°	215.4	201.0	190.2	186.6	179.5	172.2	161.5	157.9	150.8	150.8	150.8
70°	168.8	157.9	147.1	143.6	140.0	132.8	125.6	125.6	125.6	125.6	125.6
72.5°	125.6	118.5	107.6	104.1	100.5	96.9	89.8	93.4	89.8	89.8	89.8
75°	79.0	71.8	64.6	61.0	57.4	53.9	50.2	46.6	43.1	39.5	39.5
77.5°	43.1	35.9	32.2	28.8	28.8	25.1	21.5	21.5	18.0	18.0	18.0
80°	25.1	21.5	18.0	14.4	14.4	10.8	10.8	10.8	10.8	7.1	7.1
82.5°	14.4	10.8	7.1	7.1	7.1	7.1	3.6	3.6	3.6	3.6	3.6
85°	7.1	7.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P252419

CATALOG NUMBER: LE\_6B60D010R EC6B60709024 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6
2.5°	2742.1	2752.9	2742.1	2752.9	2752.9	2752.9	2752.9	2742.1
5°	2724.1	2731.4	2720.6	2727.8	2731.4	2727.8	2727.8	2717.0
7.5°	2691.9	2699.0	2688.2	2699.0	2702.6	2699.0	2695.5	2688.2
10°	2659.5	2663.1	2652.4	2659.5	2666.8	2666.8	2663.1	2652.4
12.5°	2609.2	2620.1	2609.2	2616.5	2623.6	2627.2	2627.2	2616.5
15°	2551.9	2569.9	2562.6	2573.4	2584.1	2587.8	2587.8	2584.1
17.5°	2494.5	2512.4	2501.6	2519.6	2530.4	2537.5	2541.1	2533.9
20°	2411.9	2433.4	2426.2	2440.6	2455.0	2465.8	2465.8	2455.0
22.5°	2304.2	2332.9	2329.4	2340.1	2358.0	2361.6	2368.9	2361.6
25°	2185.8	2207.4	2203.8	2214.5	2236.0	2236.0	2239.6	2239.6
27.5°	2049.4	2070.9	2067.4	2074.5	2088.9	2092.5	2096.0	2088.9
30°	1902.2	1913.0	1913.0	1923.8	1934.5	1938.1	1938.1	1927.4
32.5°	1740.8	1755.1	1762.2	1758.6	1769.5	1776.6	1773.0	1773.0
35°	1593.6	1597.1	1600.8	1604.4	1607.9	1615.1	1607.9	1604.4
37.5°	1435.6	1446.4	1439.2	1446.4	1453.6	1450.0	1446.4	1446.4
40°	1292.1	1295.6	1288.5	1295.6	1299.2	1299.2	1299.2	1292.1
42.5°	1148.5	1155.8	1148.5	1155.8	1155.8	1155.8	1155.8	1152.1
45°	1005.0	1012.1	1012.1	1015.8	1015.8	1012.1	1012.1	1012.1
47.5°	872.1	879.4	872.1	879.4	882.9	875.8	875.8	875.8
50°	746.5	743.0	743.0	746.5	746.5	746.5	746.5	743.0
52.5°	617.4	620.9	620.9	620.9	624.5	620.9	624.5	624.5
55°	506.1	506.1	506.1	509.6	506.1	506.1	509.6	513.2
57.5°	405.6	402.0	398.4	398.4	402.0	398.4	398.4	398.4
60°	312.2	308.6	305.1	305.1	305.1	305.1	305.1	301.5
62.5°	233.2	233.2	233.2	236.9	236.9	236.9	236.9	240.5
65°	186.6	186.6	186.6	186.6	186.6	186.6	186.6	190.2
67.5°	150.8	150.8	150.8	154.4	154.4	154.4	154.4	154.4
70°	125.6	125.6	129.2	125.6	129.2	129.2	129.2	129.2
72.5°	86.1	86.1	86.1	86.1	86.1	82.5	86.1	82.5
75°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	32.2
77.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
80°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	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)