

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: P252426

Luminaire Tested: **LE\_6B60D010R EC6B60709730 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252426  
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 EC6B60709730 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5038.8 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

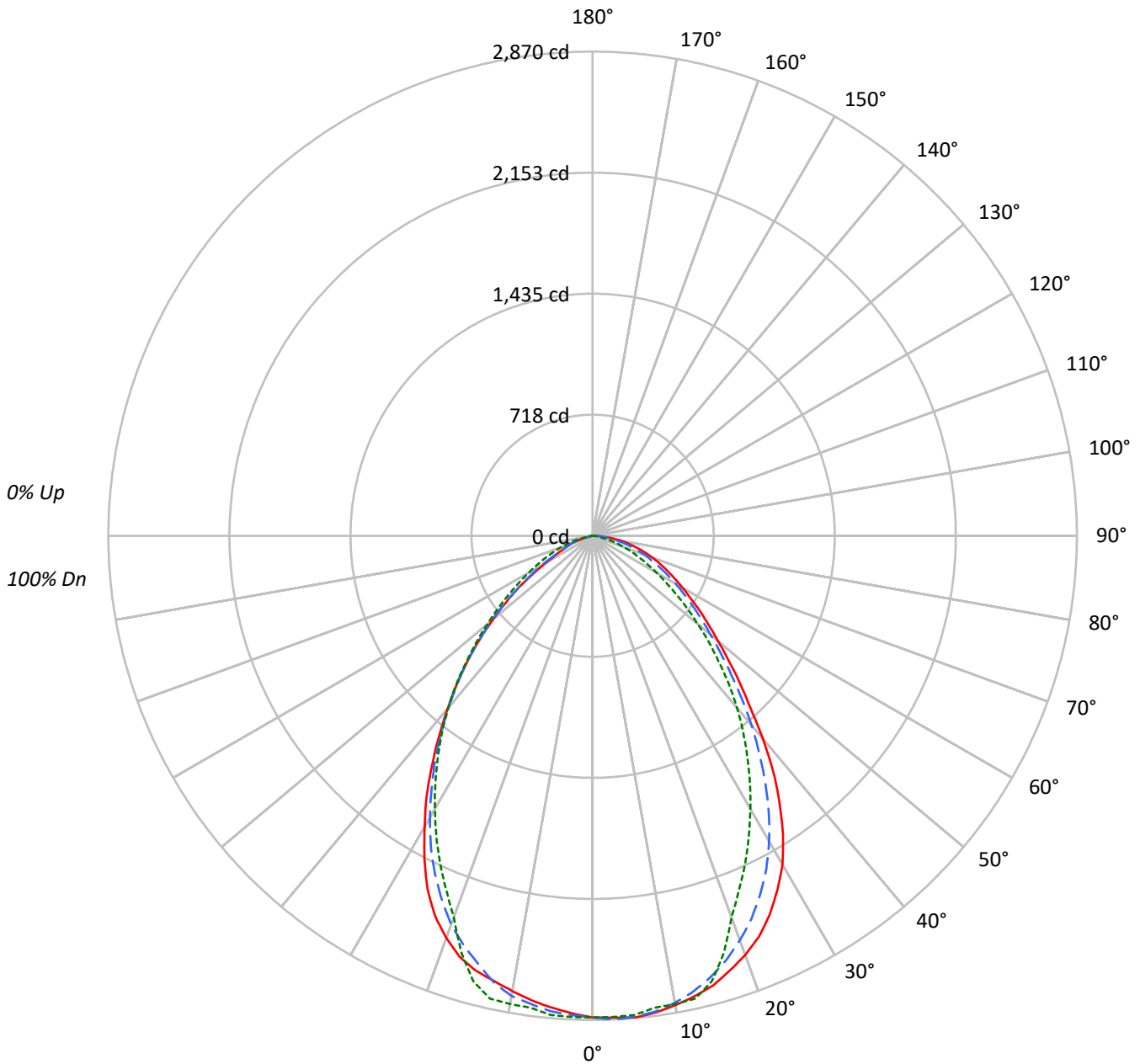
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				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°	186262	186262	186262
5°	187700	186725	183817
10°	187174	186678	181517
15°	186322	184565	180310
20°	183539	167071	176075
25°	178559	154005	166545
30°	169545	140783	149996
35°	153856	127271	132002
40°	133574	113364	113679
45°	113928	97505	96471
50°	98604	82415	77898
55°	88140	68747	60307
60°	80311	57086	40645
65°	74994	46929	30334
70°	71436	38188	25465
75°	67303	27098	8419
80°	64058	13939	2780
85°	52773	8309	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.6	5.4
10°-20°	754.1	15.0
20°-30°	1040.8	20.7
30°-40°	1059.2	21.0
40°-50°	851.2	16.9
50°-60°	566.0	11.2
60°-70°	322.5	6.4
70°-80°	144.9	2.9
80°-90°	30.5	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°	2064.5	41.0
0°-40°	3123.6	62.0
0°-60°	4540.8	90.1
0°-90°	5038.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5038.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2855	2855	2855	2855	2855	
5°	2866	2862	2851	2829	2807	272
15°	2759	2707	2733	2625	2670	776
25°	2480	2347	2139	2210	2314	1137
35°	1932	1784	1598	1628	1657	1201
45°	1235	1160	1057	1046	1046	958
55°	775	723	604	538	530	696
65°	486	434	304	196	196	484
75°	267	222	108	44	33	285
85°	70	48	11	4	0	84
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°	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0
2.5°	2858.8	2873.5	2869.9	2866.1	2869.9	2866.1	2858.8	2858.8	2851.2	2851.2	2869.9
5°	2866.1	2873.5	2869.9	2866.1	2866.1	2869.9	2855.0	2855.0	2847.6	2843.9	2862.4
7.5°	2851.2	2862.4	2855.0	2855.0	2851.2	2855.0	2840.1	2840.1	2829.0	2825.4	2843.9
10°	2825.4	2840.1	2832.8	2832.8	2832.8	2825.4	2817.9	2814.2	2803.1	2799.4	2810.5
12.5°	2795.6	2806.8	2803.1	2795.6	2795.6	2795.6	2780.9	2777.1	2762.2	2754.9	2766.0
15°	2758.6	2766.0	2762.2	2758.6	2751.1	2751.1	2736.4	2728.9	2714.1	2699.2	2706.6
17.5°	2703.0	2714.1	2706.6	2703.0	2691.9	2691.9	2677.0	2669.6	2647.4	2632.5	2636.2
20°	2643.6	2647.4	2643.6	2636.2	2625.1	2621.4	2606.6	2591.8	2573.2	2554.6	2551.0
22.5°	2573.2	2576.9	2565.8	2558.4	2547.2	2543.5	2525.0	2513.9	2484.2	2462.0	2458.2
25°	2480.5	2484.2	2484.2	2465.6	2458.2	2450.9	2432.2	2413.8	2387.9	2358.1	2347.0
27.5°	2369.2	2380.4	2373.0	2354.5	2339.6	2335.9	2317.4	2302.5	2269.1	2243.2	2228.4
30°	2250.6	2246.9	2243.2	2232.1	2209.9	2206.1	2187.6	2169.0	2143.1	2109.8	2091.2
32.5°	2098.6	2098.6	2094.9	2083.8	2061.5	2054.1	2039.2	2017.0	1987.4	1961.4	1942.9
35°	1931.8	1935.5	1931.8	1909.5	1894.6	1887.2	1879.9	1853.9	1828.0	1798.2	1783.5
37.5°	1757.5	1746.4	1750.1	1731.5	1713.0	1720.4	1698.1	1687.0	1657.4	1635.1	1620.2
40°	1568.4	1575.8	1561.0	1553.6	1542.5	1531.4	1531.4	1512.8	1498.0	1472.0	1464.6
42.5°	1383.0	1394.1	1390.4	1383.0	1368.1	1371.9	1353.4	1345.9	1327.4	1316.2	1305.1
45°	1234.8	1234.8	1234.8	1227.2	1223.6	1216.1	1205.0	1193.9	1182.8	1168.0	1160.5
47.5°	1090.1	1090.1	1093.8	1086.4	1079.0	1075.2	1067.9	1067.9	1049.2	1034.5	1027.0
50°	971.5	971.5	971.5	964.0	956.6	956.6	949.2	941.8	930.6	919.5	912.1
52.5°	863.9	863.9	863.9	856.5	852.8	849.1	845.4	841.6	826.9	819.4	812.0
55°	774.9	771.2	771.2	767.5	760.1	760.1	756.4	749.0	737.9	726.8	723.0
57.5°	686.0	689.6	686.0	686.0	678.5	678.5	671.1	667.4	656.2	648.9	641.5
60°	615.5	615.5	615.5	611.8	604.4	608.1	600.6	597.0	585.9	574.8	567.2
62.5°	545.0	548.8	548.8	545.0	537.6	537.6	533.9	530.2	519.1	508.0	496.9
65°	485.8	485.8	485.8	482.0	478.2	478.2	474.6	470.9	459.8	444.9	433.8
67.5°	430.1	426.4	426.4	426.4	422.8	419.0	415.2	411.6	400.5	389.4	374.5
70°	374.5	374.5	374.5	370.8	363.4	367.1	363.4	359.6	348.5	337.4	326.2
72.5°	322.6	322.6	318.9	315.1	315.1	311.5	311.5	307.8	296.6	281.8	270.6
75°	267.0	267.0	267.0	267.0	259.5	263.2	255.9	252.1	244.8	233.6	222.5
77.5°	218.8	218.8	218.8	215.0	211.4	211.4	207.6	203.9	192.8	185.4	170.5
80°	170.5	170.5	170.5	170.5	166.9	163.1	159.4	155.8	148.2	137.2	126.1
82.5°	126.1	126.1	122.4	122.4	122.4	118.6	115.0	111.2	103.9	96.4	89.0
85°	70.5	74.1	74.1	66.8	70.5	66.8	66.8	59.4	59.4	51.9	48.2
87.5°	26.0	22.2	22.2	22.2	22.2	22.2	22.2	18.5	18.5	18.5	14.9
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0
2.5°	2855.0	2851.2	2866.1	2866.1	2843.9	2855.0	2858.8	2851.2	2851.2	2855.0	2843.9
5°	2847.6	2840.1	2855.0	2858.8	2836.5	2847.6	2851.2	2843.9	2847.6	2851.2	2836.5
7.5°	2821.6	2821.6	2832.8	2836.5	2814.2	2825.4	2825.4	2817.9	2821.6	2821.6	2810.5
10°	2795.6	2784.5	2795.6	2795.6	2777.1	2780.9	2788.2	2784.5	2799.4	2817.9	2817.9
12.5°	2747.5	2736.4	2754.9	2754.9	2743.8	2758.6	2777.1	2788.2	2803.1	2810.5	2788.2
15°	2688.1	2691.9	2725.2	2751.1	2740.0	2762.2	2780.9	2773.4	2754.9	2732.6	2699.2
17.5°	2610.2	2599.1	2628.9	2643.6	2628.9	2636.2	2651.1	2636.2	2606.6	2588.0	2543.5
20°	2521.2	2491.6	2491.6	2484.2	2458.2	2458.2	2454.5	2428.6	2417.5	2406.4	2387.9
22.5°	2421.1	2387.9	2376.8	2354.5	2332.2	2328.5	2317.4	2291.4	2276.6	2269.1	2246.9
25°	2306.2	2276.6	2258.0	2235.8	2202.4	2195.0	2183.9	2157.9	2150.5	2139.4	2120.9
27.5°	2187.6	2150.5	2124.6	2102.4	2072.6	2069.0	2046.8	2028.1	2013.4	2005.9	1991.1
30°	2050.4	2009.6	1991.1	1961.4	1939.1	1931.8	1913.2	1887.2	1876.1	1868.8	1857.6
32.5°	1898.4	1865.0	1846.5	1820.5	1790.9	1794.6	1772.4	1750.1	1742.6	1735.2	1724.1
35°	1750.1	1716.8	1694.5	1672.2	1653.6	1646.2	1631.4	1612.9	1601.8	1598.0	1590.6
37.5°	1586.9	1561.0	1542.5	1520.2	1505.4	1498.0	1490.5	1472.0	1464.6	1464.6	1449.8
40°	1427.5	1405.2	1390.4	1379.2	1360.8	1357.0	1349.6	1338.5	1334.8	1331.1	1320.0
42.5°	1282.9	1253.2	1242.1	1234.8	1223.6	1216.1	1212.5	1205.0	1201.4	1197.6	1186.5
45°	1145.8	1119.8	1108.6	1101.2	1090.1	1086.4	1082.6	1071.5	1064.1	1056.8	1053.0
47.5°	1012.2	993.8	990.0	971.5	964.0	956.6	949.2	941.8	938.1	934.4	919.5
50°	897.2	886.1	867.6	856.5	849.1	845.4	830.5	819.4	815.8	812.0	800.9
52.5°	793.5	778.6	767.5	749.0	745.2	737.9	730.4	715.6	708.2	704.5	693.4
55°	700.8	689.6	674.9	660.0	648.9	645.1	634.0	619.2	611.8	604.4	597.0
57.5°	622.9	604.4	589.5	574.8	567.2	556.1	545.0	537.6	526.5	515.4	504.2
60°	548.8	533.9	515.4	500.5	493.1	485.8	470.9	459.8	448.6	437.5	426.4
62.5°	478.2	463.5	444.9	430.1	422.8	415.2	400.5	389.4	378.2	367.1	352.2
65°	415.2	400.5	385.6	370.8	363.4	356.0	341.1	326.2	315.1	304.0	289.2
67.5°	363.4	344.9	330.0	315.1	307.8	300.4	285.5	274.4	259.5	248.4	233.6
70°	307.8	292.9	281.8	267.0	259.5	252.1	237.2	222.5	211.4	200.2	185.4
72.5°	259.5	241.0	229.9	215.0	207.6	203.9	189.1	178.0	166.9	152.0	140.9
75°	207.6	192.8	178.0	166.9	159.4	155.8	140.9	129.8	118.6	107.5	96.4
77.5°	159.4	148.2	133.5	122.4	115.0	111.2	96.4	85.2	74.1	66.8	55.6
80°	118.6	103.9	96.4	85.2	81.6	74.1	66.8	55.6	48.2	37.1	29.6
82.5°	81.6	70.5	63.0	55.6	51.9	48.2	40.8	33.4	26.0	22.2	18.5
85°	44.5	37.1	33.4	29.6	26.0	26.0	22.2	18.5	14.9	11.1	7.4
87.5°	14.9	11.1	11.1	11.1	11.1	7.4	7.4	7.4	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°	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0
2.5°	2851.2	2851.2	2851.2	2847.6	2847.6	2847.6	2843.9	2858.8	2843.9	2840.1	2851.2
5°	2847.6	2840.1	2840.1	2840.1	2840.1	2836.5	2832.8	2840.1	2829.0	2825.4	2825.4
7.5°	2825.4	2821.6	2821.6	2817.9	2814.2	2810.5	2806.8	2810.5	2799.4	2795.6	2795.6
10°	2829.0	2821.6	2821.6	2810.5	2803.1	2792.0	2780.9	2784.5	2769.8	2758.6	2758.6
12.5°	2784.5	2766.0	2754.9	2743.8	2736.4	2732.6	2717.8	2725.2	2710.4	2706.6	2706.6
15°	2684.5	2662.2	2643.6	2636.2	2636.2	2628.9	2617.8	2632.5	2625.1	2628.9	2647.4
17.5°	2528.8	2517.6	2506.5	2502.8	2506.5	2513.9	2521.2	2543.5	2543.5	2554.6	2573.2
20°	2391.5	2384.1	2391.5	2391.5	2395.2	2410.1	2424.9	2443.4	2450.9	2462.0	2487.9
22.5°	2258.0	2258.0	2265.5	2276.6	2272.9	2298.9	2302.5	2335.9	2335.9	2358.1	2380.4
25°	2128.2	2128.2	2135.6	2139.4	2146.8	2161.6	2176.5	2202.4	2209.9	2232.1	2250.6
27.5°	2002.2	1998.5	1998.5	2002.2	2009.6	2028.1	2035.6	2065.2	2076.4	2091.2	2109.8
30°	1861.2	1857.6	1865.0	1872.4	1868.8	1887.2	1898.4	1920.6	1928.0	1942.9	1957.8
32.5°	1727.9	1727.9	1727.9	1735.2	1735.2	1750.1	1750.1	1776.0	1776.0	1787.1	1802.0
35°	1590.6	1590.6	1594.4	1598.0	1601.8	1605.5	1609.1	1624.0	1627.8	1631.4	1638.9
37.5°	1460.9	1457.1	1460.9	1460.9	1453.5	1468.2	1468.2	1483.1	1472.0	1483.1	1486.9
40°	1327.4	1327.4	1323.6	1323.6	1323.6	1331.1	1323.6	1334.8	1327.4	1334.8	1331.1
42.5°	1190.2	1190.2	1182.8	1190.2	1186.5	1186.5	1186.5	1193.9	1182.8	1190.2	1193.9
45°	1053.0	1049.2	1049.2	1045.6	1045.6	1045.6	1049.2	1049.2	1045.6	1053.0	1053.0
47.5°	919.5	915.9	915.9	915.9	915.9	919.5	908.4	915.9	908.4	908.4	908.4
50°	804.6	800.9	797.1	793.5	789.8	789.8	786.0	786.0	778.6	774.9	771.2
52.5°	693.4	689.6	682.2	682.2	678.5	674.9	663.8	663.8	652.6	648.9	648.9
55°	593.2	582.1	578.4	571.0	571.0	563.6	556.1	548.8	537.6	530.2	530.2
57.5°	500.5	489.4	482.0	478.2	474.6	467.1	452.4	448.6	433.8	430.1	426.4
60°	419.0	407.9	396.8	389.4	385.6	374.5	359.6	352.2	344.9	333.8	322.6
62.5°	341.1	330.0	315.1	311.5	304.0	292.9	281.8	270.6	263.2	252.1	244.8
65°	274.4	263.2	252.1	244.8	237.2	226.1	215.0	203.9	196.5	192.8	189.1
67.5°	222.5	207.6	196.5	192.8	185.4	178.0	166.9	163.1	155.8	155.8	155.8
70°	174.2	163.1	152.0	148.2	144.6	137.2	129.8	129.8	129.8	129.8	129.8
72.5°	129.8	122.4	111.2	107.5	103.9	100.1	92.8	96.4	92.8	92.8	92.8
75°	81.6	74.1	66.8	63.0	59.4	55.6	51.9	48.2	44.5	40.8	40.8
77.5°	44.5	37.1	33.4	29.6	29.6	26.0	22.2	22.2	18.5	18.5	18.5
80°	26.0	22.2	18.5	14.9	14.9	11.1	11.1	11.1	11.1	7.4	7.4
82.5°	14.9	11.1	7.4	7.4	7.4	7.4	3.8	3.8	3.8	3.8	3.8
85°	7.4	7.4	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: P252426

CATALOG NUMBER: LE\_6B60D010R EC6B60709730 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0
2.5°	2832.8	2843.9	2832.8	2843.9	2843.9	2843.9	2843.9	2832.8
5°	2814.2	2821.6	2810.5	2817.9	2821.6	2817.9	2817.9	2806.8
7.5°	2780.9	2788.2	2777.1	2788.2	2792.0	2788.2	2784.5	2777.1
10°	2747.5	2751.1	2740.0	2747.5	2754.9	2754.9	2751.1	2740.0
12.5°	2695.6	2706.6	2695.6	2703.0	2710.4	2714.1	2714.1	2703.0
15°	2636.2	2654.8	2647.4	2658.5	2669.6	2673.4	2673.4	2669.6
17.5°	2576.9	2595.5	2584.4	2602.9	2614.0	2621.4	2625.1	2617.8
20°	2491.6	2513.9	2506.5	2521.2	2536.1	2547.2	2547.2	2536.1
22.5°	2380.4	2410.1	2406.4	2417.5	2436.0	2439.8	2447.1	2439.8
25°	2258.0	2280.2	2276.6	2287.8	2310.0	2310.0	2313.6	2313.6
27.5°	2117.1	2139.4	2135.6	2143.1	2157.9	2161.6	2165.4	2157.9
30°	1965.1	1976.2	1976.2	1987.4	1998.5	2002.2	2002.2	1991.1
32.5°	1798.2	1813.1	1820.5	1816.9	1828.0	1835.4	1831.6	1831.6
35°	1646.2	1650.0	1653.6	1657.4	1661.1	1668.5	1661.1	1657.4
37.5°	1483.1	1494.2	1486.9	1494.2	1501.6	1498.0	1494.2	1494.2
40°	1334.8	1338.5	1331.1	1338.5	1342.2	1342.2	1342.2	1334.8
42.5°	1186.5	1193.9	1186.5	1193.9	1193.9	1193.9	1193.9	1190.2
45°	1038.1	1045.6	1045.6	1049.2	1049.2	1045.6	1045.6	1045.6
47.5°	901.0	908.4	901.0	908.4	912.1	904.8	904.8	904.8
50°	771.2	767.5	767.5	771.2	771.2	771.2	771.2	767.5
52.5°	637.8	641.5	641.5	641.5	645.1	641.5	645.1	645.1
55°	522.8	522.8	522.8	526.5	522.8	522.8	526.5	530.2
57.5°	419.0	415.2	411.6	411.6	415.2	411.6	411.6	411.6
60°	322.6	318.9	315.1	315.1	315.1	315.1	315.1	311.5
62.5°	241.0	241.0	241.0	244.8	244.8	244.8	244.8	248.4
65°	192.8	192.8	192.8	192.8	192.8	192.8	192.8	196.5
67.5°	155.8	155.8	155.8	159.4	159.4	159.4	159.4	159.4
70°	129.8	129.8	133.5	129.8	133.5	133.5	133.5	133.5
72.5°	89.0	89.0	89.0	89.0	89.0	85.2	89.0	85.2
75°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	33.4
77.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
80°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
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)