

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: P252391

Luminaire Tested: **LE\_6B40D010 EC6B30508040 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252391  
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\_6B40D010 EC6B30508040 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4891.3 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

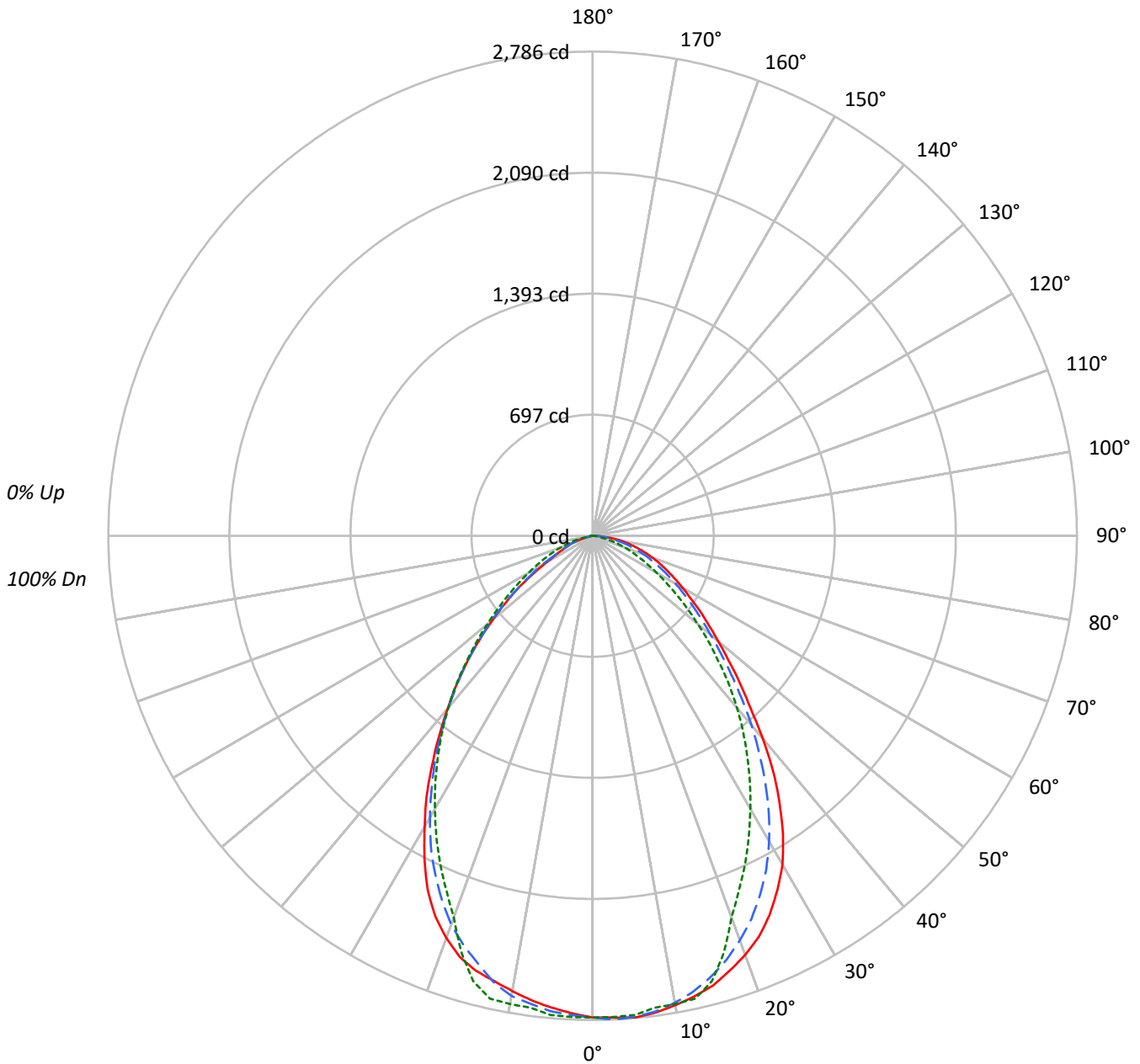
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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°	180808	180808	180808
5°	182206	181269	178434
10°	181689	181212	176211
15°	180871	179162	175035
20°	178165	162176	170924
25°	173333	149499	161671
30°	164588	136655	145604
35°	149349	123544	128139
40°	129665	110042	110358
45°	110579	94645	93648
50°	95711	79999	75615
55°	85558	66722	58555
60°	77963	55428	39458
65°	72787	45555	29454
70°	69338	37082	24721
75°	65311	26316	8167
80°	62217	13525	2705
85°	51201	8084	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.7	5.4
10°-20°	732.0	15.0
20°-30°	1010.4	20.7
30°-40°	1028.2	21.0
40°-50°	826.3	16.9
50°-60°	549.4	11.2
60°-70°	313.1	6.4
70°-80°	140.6	2.9
80°-90°	29.6	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°	2004.0	41.0
0°-40°	3032.2	62.0
0°-60°	4407.9	90.1
0°-90°	4891.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4891.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2771	2771	2771	2771	2771	
5°	2782	2779	2768	2746	2725	264
15°	2678	2628	2653	2548	2592	754
25°	2408	2278	2077	2145	2246	1103
35°	1875	1731	1551	1580	1609	1165
45°	1198	1127	1026	1015	1015	929
55°	752	702	587	522	515	676
65°	472	421	295	191	191	470
75°	259	216	104	43	32	277
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°	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4
2.5°	2775.0	2789.4	2785.9	2782.2	2785.9	2782.2	2775.0	2775.0	2767.9	2767.9	2785.9
5°	2782.2	2789.4	2785.9	2782.2	2782.2	2785.9	2771.4	2771.4	2764.2	2760.6	2778.6
7.5°	2767.9	2778.6	2771.4	2771.4	2767.9	2771.4	2757.0	2757.0	2746.2	2742.6	2760.6
10°	2742.6	2757.0	2749.9	2749.9	2749.9	2742.6	2735.4	2731.9	2721.0	2717.4	2728.2
12.5°	2713.9	2724.6	2721.0	2713.9	2713.9	2713.9	2699.5	2695.9	2681.5	2674.2	2685.0
15°	2677.9	2685.0	2681.5	2677.9	2670.6	2670.6	2656.2	2649.0	2634.6	2620.2	2627.5
17.5°	2623.9	2634.6	2627.5	2623.9	2613.0	2613.0	2598.6	2591.5	2569.9	2555.5	2559.1
20°	2566.2	2569.9	2566.2	2559.1	2548.2	2544.6	2530.2	2515.9	2497.9	2479.9	2476.2
22.5°	2497.9	2501.5	2490.6	2483.5	2472.6	2469.1	2451.1	2440.2	2411.5	2389.9	2386.2
25°	2407.9	2411.5	2411.5	2393.5	2386.2	2379.1	2361.1	2343.1	2317.9	2289.1	2278.4
27.5°	2299.9	2310.8	2303.5	2285.5	2271.1	2267.5	2249.5	2235.1	2202.8	2177.5	2163.1
30°	2184.8	2181.1	2177.5	2166.8	2145.1	2141.5	2123.5	2105.5	2080.4	2048.0	2030.0
32.5°	2037.1	2037.1	2033.6	2022.8	2001.1	1994.0	1979.6	1958.0	1929.2	1904.0	1886.0
35°	1875.2	1878.8	1875.2	1853.6	1839.2	1832.0	1824.9	1799.6	1774.4	1745.6	1731.2
37.5°	1706.0	1695.2	1698.9	1680.9	1662.9	1670.0	1648.5	1637.6	1608.9	1587.2	1572.9
40°	1522.5	1529.6	1515.2	1508.1	1497.2	1486.5	1486.5	1468.5	1454.1	1428.9	1421.8
42.5°	1342.5	1353.4	1349.8	1342.5	1328.1	1331.8	1313.8	1306.5	1288.5	1277.8	1266.9
45°	1198.5	1198.5	1198.5	1191.4	1187.8	1180.5	1169.8	1159.0	1148.1	1133.8	1126.6
47.5°	1058.1	1058.1	1061.8	1054.6	1047.4	1043.8	1036.6	1036.6	1018.6	1004.2	997.0
50°	943.0	943.0	943.0	935.8	928.6	928.6	921.4	914.2	903.4	892.6	885.4
52.5°	838.6	838.6	838.6	831.4	827.9	824.2	820.6	817.0	802.6	795.4	788.2
55°	752.2	748.6	748.6	745.0	737.9	737.9	734.2	727.0	716.2	705.5	701.9
57.5°	665.9	669.5	665.9	665.9	658.6	658.6	651.5	647.9	637.1	629.9	622.6
60°	597.5	597.5	597.5	593.9	586.6	590.2	583.1	579.5	568.6	557.9	550.6
62.5°	529.1	532.8	532.8	529.1	521.9	521.9	518.2	514.8	503.9	493.1	482.2
65°	471.5	471.5	471.5	467.9	464.2	464.2	460.8	457.1	446.2	431.9	421.1
67.5°	417.5	413.9	413.9	413.9	410.4	406.8	403.1	399.5	388.8	377.9	363.5
70°	363.5	363.5	363.5	359.9	352.8	356.4	352.8	349.1	338.4	327.5	316.8
72.5°	313.1	313.1	309.5	305.9	305.9	302.4	302.4	298.8	288.0	273.5	262.8
75°	259.1	259.1	259.1	259.1	252.0	255.5	248.4	244.8	237.5	226.8	216.0
77.5°	212.4	212.4	212.4	208.8	205.1	205.1	201.5	198.0	187.1	180.0	165.6
80°	165.6	165.6	165.6	165.6	162.0	158.4	154.8	151.1	144.0	133.1	122.4
82.5°	122.4	122.4	118.8	118.8	118.8	115.1	111.6	108.0	100.8	93.6	86.4
85°	68.4	72.0	72.0	64.8	68.4	64.8	64.8	57.6	57.6	50.4	46.8
87.5°	25.2	21.6	21.6	21.6	21.6	21.6	21.6	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°	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4
2.5°	2771.4	2767.9	2782.2	2782.2	2760.6	2771.4	2775.0	2767.9	2767.9	2771.4	2760.6
5°	2764.2	2757.0	2771.4	2775.0	2753.4	2764.2	2767.9	2760.6	2764.2	2767.9	2753.4
7.5°	2739.0	2739.0	2749.9	2753.4	2731.9	2742.6	2742.6	2735.4	2739.0	2739.0	2728.2
10°	2713.9	2703.0	2713.9	2713.9	2695.9	2699.5	2706.6	2703.0	2717.4	2735.4	2735.4
12.5°	2667.0	2656.2	2674.2	2674.2	2663.5	2677.9	2695.9	2706.6	2721.0	2728.2	2706.6
15°	2609.5	2613.0	2645.5	2670.6	2659.9	2681.5	2699.5	2692.2	2674.2	2652.6	2620.2
17.5°	2533.9	2523.1	2551.9	2566.2	2551.9	2559.1	2573.5	2559.1	2530.2	2512.2	2469.1
20°	2447.5	2418.8	2418.8	2411.5	2386.2	2386.2	2382.8	2357.5	2346.8	2335.9	2317.9
22.5°	2350.2	2317.9	2307.1	2285.5	2263.9	2260.4	2249.5	2224.4	2210.0	2202.8	2181.1
25°	2238.8	2210.0	2192.0	2170.4	2138.0	2130.8	2120.0	2094.8	2087.6	2076.8	2058.8
27.5°	2123.5	2087.6	2062.4	2040.8	2012.0	2008.4	1986.8	1968.8	1954.4	1947.2	1932.8
30°	1990.4	1950.8	1932.8	1904.0	1882.4	1875.2	1857.2	1832.0	1821.2	1814.0	1803.2
32.5°	1842.9	1810.4	1792.4	1767.2	1738.5	1742.0	1720.5	1698.9	1691.6	1684.5	1673.6
35°	1698.9	1666.5	1644.9	1623.2	1605.2	1598.1	1583.6	1565.6	1554.9	1551.2	1544.1
37.5°	1540.5	1515.2	1497.2	1475.8	1461.2	1454.1	1446.9	1428.9	1421.8	1421.8	1407.2
40°	1385.8	1364.1	1349.8	1338.9	1320.9	1317.4	1310.1	1299.4	1295.8	1292.1	1281.4
42.5°	1245.4	1216.5	1205.8	1198.5	1187.8	1180.5	1177.0	1169.8	1166.1	1162.5	1151.8
45°	1112.1	1087.0	1076.1	1069.0	1058.1	1054.6	1051.0	1040.1	1033.0	1025.8	1022.1
47.5°	982.6	964.6	961.0	943.0	935.8	928.6	921.4	914.2	910.6	907.0	892.6
50°	871.0	860.2	842.2	831.4	824.2	820.6	806.2	795.4	791.9	788.2	777.5
52.5°	770.2	755.9	745.0	727.0	723.5	716.2	709.0	694.6	687.5	683.9	673.0
55°	680.2	669.5	655.1	640.6	629.9	626.2	615.5	601.1	593.9	586.6	579.5
57.5°	604.6	586.6	572.2	557.9	550.6	539.9	529.1	521.9	511.1	500.2	489.5
60°	532.8	518.2	500.2	485.9	478.8	471.5	457.1	446.2	435.5	424.8	413.9
62.5°	464.2	449.9	431.9	417.5	410.4	403.1	388.8	377.9	367.1	356.4	341.9
65°	403.1	388.8	374.4	359.9	352.8	345.5	331.1	316.8	305.9	295.1	280.8
67.5°	352.8	334.8	320.4	305.9	298.8	291.5	277.1	266.4	252.0	241.1	226.8
70°	298.8	284.4	273.5	259.1	252.0	244.8	230.4	216.0	205.1	194.4	180.0
72.5°	252.0	234.0	223.1	208.8	201.5	198.0	183.5	172.8	162.0	147.6	136.8
75°	201.5	187.1	172.8	162.0	154.8	151.1	136.8	126.0	115.1	104.4	93.6
77.5°	154.8	144.0	129.6	118.8	111.6	108.0	93.6	82.8	72.0	64.8	54.0
80°	115.1	100.8	93.6	82.8	79.1	72.0	64.8	54.0	46.8	36.0	28.8
82.5°	79.1	68.4	61.1	54.0	50.4	46.8	39.6	32.4	25.2	21.6	18.0
85°	43.2	36.0	32.4	28.8	25.2	25.2	21.6	18.0	14.4	10.8	7.2
87.5°	14.4	10.8	10.8	10.8	10.8	7.2	7.2	7.2	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°	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4
2.5°	2767.9	2767.9	2767.9	2764.2	2764.2	2764.2	2760.6	2775.0	2760.6	2757.0	2767.9
5°	2764.2	2757.0	2757.0	2757.0	2757.0	2753.4	2749.9	2757.0	2746.2	2742.6	2742.6
7.5°	2742.6	2739.0	2739.0	2735.4	2731.9	2728.2	2724.6	2728.2	2717.4	2713.9	2713.9
10°	2746.2	2739.0	2739.0	2728.2	2721.0	2710.2	2699.5	2703.0	2688.6	2677.9	2677.9
12.5°	2703.0	2685.0	2674.2	2663.5	2656.2	2652.6	2638.2	2645.5	2631.0	2627.5	2627.5
15°	2605.9	2584.2	2566.2	2559.1	2559.1	2551.9	2541.1	2555.5	2548.2	2551.9	2569.9
17.5°	2454.8	2443.9	2433.1	2429.5	2433.1	2440.2	2447.5	2469.1	2469.1	2479.9	2497.9
20°	2321.5	2314.4	2321.5	2321.5	2325.1	2339.5	2353.9	2371.9	2379.1	2389.9	2415.1
22.5°	2192.0	2192.0	2199.1	2210.0	2206.4	2231.5	2235.1	2267.5	2267.5	2289.1	2310.8
25°	2066.0	2066.0	2073.1	2076.8	2084.0	2098.4	2112.8	2138.0	2145.1	2166.8	2184.8
27.5°	1943.6	1940.0	1940.0	1943.6	1950.8	1968.8	1976.0	2004.8	2015.6	2030.0	2048.0
30°	1806.9	1803.2	1810.4	1817.6	1814.0	1832.0	1842.9	1864.4	1871.6	1886.0	1900.4
32.5°	1677.2	1677.2	1677.2	1684.5	1684.5	1698.9	1698.9	1724.0	1724.0	1734.9	1749.2
35°	1544.1	1544.1	1547.6	1551.2	1554.9	1558.5	1562.1	1576.5	1580.1	1583.6	1590.9
37.5°	1418.1	1414.5	1418.1	1418.1	1410.9	1425.2	1425.2	1439.8	1428.9	1439.8	1443.2
40°	1288.5	1288.5	1284.9	1284.9	1284.9	1292.1	1284.9	1295.8	1288.5	1295.8	1292.1
42.5°	1155.4	1155.4	1148.1	1155.4	1151.8	1151.8	1151.8	1159.0	1148.1	1155.4	1159.0
45°	1022.1	1018.6	1018.6	1015.0	1015.0	1015.0	1018.6	1018.6	1015.0	1022.1	1022.1
47.5°	892.6	889.0	889.0	889.0	889.0	892.6	881.9	889.0	881.9	881.9	881.9
50°	781.0	777.5	773.9	770.2	766.6	766.6	763.0	763.0	755.9	752.2	748.6
52.5°	673.0	669.5	662.2	662.2	658.6	655.1	644.2	644.2	633.5	629.9	629.9
55°	575.9	565.1	561.5	554.2	554.2	547.1	539.9	532.8	521.9	514.8	514.8
57.5°	485.9	475.1	467.9	464.2	460.8	453.5	439.1	435.5	421.1	417.5	413.9
60°	406.8	395.9	385.1	377.9	374.4	363.5	349.1	341.9	334.8	323.9	313.1
62.5°	331.1	320.4	305.9	302.4	295.1	284.4	273.5	262.8	255.5	244.8	237.5
65°	266.4	255.5	244.8	237.5	230.4	219.5	208.8	198.0	190.8	187.1	183.5
67.5°	216.0	201.5	190.8	187.1	180.0	172.8	162.0	158.4	151.1	151.1	151.1
70°	169.1	158.4	147.6	144.0	140.4	133.1	126.0	126.0	126.0	126.0	126.0
72.5°	126.0	118.8	108.0	104.4	100.8	97.1	90.0	93.6	90.0	90.0	90.0
75°	79.1	72.0	64.8	61.1	57.6	54.0	50.4	46.8	43.2	39.6	39.6
77.5°	43.2	36.0	32.4	28.8	28.8	25.2	21.6	21.6	18.0	18.0	18.0
80°	25.2	21.6	18.0	14.4	14.4	10.8	10.8	10.8	10.8	7.2	7.2
82.5°	14.4	10.8	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	3.6
85°	7.2	7.2	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: P252391

CATALOG NUMBER: LE\_6B40D010 EC6B30508040 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4	2771.4
2.5°	2749.9	2760.6	2749.9	2760.6	2760.6	2760.6	2760.6	2749.9
5°	2731.9	2739.0	2728.2	2735.4	2739.0	2735.4	2735.4	2724.6
7.5°	2699.5	2706.6	2695.9	2706.6	2710.2	2706.6	2703.0	2695.9
10°	2667.0	2670.6	2659.9	2667.0	2674.2	2674.2	2670.6	2659.9
12.5°	2616.6	2627.5	2616.6	2623.9	2631.0	2634.6	2634.6	2623.9
15°	2559.1	2577.1	2569.9	2580.6	2591.5	2595.0	2595.0	2591.5
17.5°	2501.5	2519.5	2508.6	2526.6	2537.5	2544.6	2548.2	2541.1
20°	2418.8	2440.2	2433.1	2447.5	2461.9	2472.6	2472.6	2461.9
22.5°	2310.8	2339.5	2335.9	2346.8	2364.8	2368.2	2375.5	2368.2
25°	2192.0	2213.5	2210.0	2220.8	2242.4	2242.4	2245.9	2245.9
27.5°	2055.1	2076.8	2073.1	2080.4	2094.8	2098.4	2102.0	2094.8
30°	1907.6	1918.4	1918.4	1929.2	1940.0	1943.6	1943.6	1932.8
32.5°	1745.6	1760.0	1767.2	1763.6	1774.4	1781.6	1778.0	1778.0
35°	1598.1	1601.6	1605.2	1608.9	1612.5	1619.6	1612.5	1608.9
37.5°	1439.8	1450.5	1443.2	1450.5	1457.8	1454.1	1450.5	1450.5
40°	1295.8	1299.4	1292.1	1299.4	1302.9	1302.9	1302.9	1295.8
42.5°	1151.8	1159.0	1151.8	1159.0	1159.0	1159.0	1159.0	1155.4
45°	1007.8	1015.0	1015.0	1018.6	1018.6	1015.0	1015.0	1015.0
47.5°	874.6	881.9	874.6	881.9	885.4	878.2	878.2	878.2
50°	748.6	745.0	745.0	748.6	748.6	748.6	748.6	745.0
52.5°	619.1	622.6	622.6	622.6	626.2	622.6	626.2	626.2
55°	507.5	507.5	507.5	511.1	507.5	507.5	511.1	514.8
57.5°	406.8	403.1	399.5	399.5	403.1	399.5	399.5	399.5
60°	313.1	309.5	305.9	305.9	305.9	305.9	305.9	302.4
62.5°	234.0	234.0	234.0	237.5	237.5	237.5	237.5	241.1
65°	187.1	187.1	187.1	187.1	187.1	187.1	187.1	190.8
67.5°	151.1	151.1	151.1	154.8	154.8	154.8	154.8	154.8
70°	126.0	126.0	129.6	126.0	129.6	129.6	129.6	129.6
72.5°	86.4	86.4	86.4	86.4	86.4	82.8	86.4	82.8
75°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	32.4
77.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
80°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
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)