

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: P252620

Luminaire Tested: **LE_6B50D010R EC6B30509727 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30509727 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4757.5 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

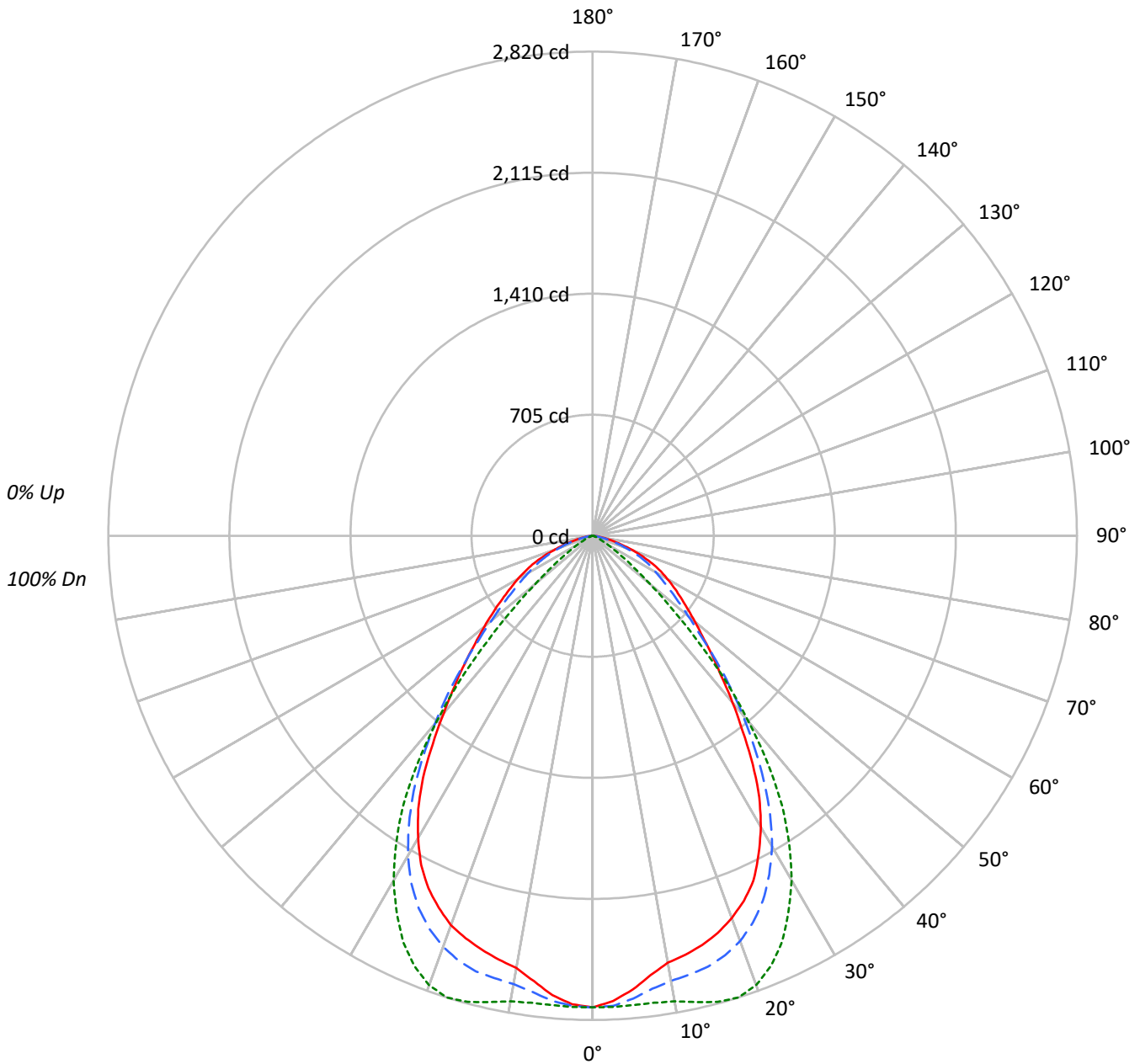
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	179203	179203	179203
5°	173849	179678	175932
10°	167241	182385	169341
15°	166640	189807	168578
20°	164467	193349	167557
25°	159555	187895	162981
30°	147593	174623	153093
35°	129493	153514	137075
40°	107905	120347	114931
45°	90825	79393	96979
50°	78639	43501	83471
55°	71147	23113	72955
60°	65475	12017	65475
65°	59310	6360	57859
70°	47859	3624	44216
75°	32820	2395	30400
80°	21453	1165	19086
85°	14222	2321	11902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	5.4
10°-20°	740.6	15.6
20°-30°	1094.3	23.0
30°-40°	1105.3	23.2
40°-50°	761.8	16.0
50°-60°	437.6	9.2
60°-70°	254.7	5.4
70°-80°	92.9	2.0
80°-90°	14.2	0.3
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°	2091.0	44.0
0°-40°	3196.3	67.2
0°-60°	4395.7	92.4
0°-90°	4757.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4757.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2747	2747	2747	2747	2747	
5°	2655	2706	2744	2718	2686	249
15°	2467	2598	2810	2626	2496	695
25°	2216	2347	2610	2394	2264	1010
35°	1626	1737	1928	1816	1721	1009
45°	984	997	860	1061	1051	765
55°	626	549	203	572	641	563
65°	384	324	41	321	375	376
75°	130	105	10	102	121	147
85°	19	10	3	13	16	24
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°	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8
2.5°	2711.8	2715.0	2718.1	2715.0	2718.1	2730.9	2721.4	2727.8	2727.8	2730.9	2740.4
5°	2654.6	2654.6	2661.0	2657.9	2667.4	2680.0	2670.5	2680.0	2683.2	2689.6	2705.5
7.5°	2581.6	2581.6	2584.8	2584.8	2597.5	2610.2	2603.9	2616.5	2629.2	2642.0	2661.0
10°	2524.5	2530.9	2530.9	2534.0	2546.8	2562.6	2559.4	2575.2	2588.0	2607.0	2632.4
12.5°	2499.0	2502.2	2502.2	2508.6	2521.2	2537.1	2534.0	2549.9	2568.9	2591.1	2616.5
15°	2467.2	2473.6	2470.5	2476.9	2489.5	2505.4	2502.2	2518.1	2540.4	2562.6	2597.5
17.5°	2426.0	2429.2	2432.4	2432.4	2445.1	2457.8	2457.8	2473.6	2499.0	2524.5	2562.6
20°	2368.9	2375.2	2375.2	2378.4	2387.9	2407.0	2403.8	2419.6	2445.1	2470.5	2511.8
22.5°	2302.1	2305.4	2305.4	2308.5	2324.4	2333.9	2337.1	2349.9	2372.0	2400.6	2438.8
25°	2216.5	2219.6	2216.5	2226.0	2232.4	2251.4	2245.0	2260.9	2286.2	2308.5	2346.6
27.5°	2092.6	2099.0	2099.0	2102.1	2118.0	2133.9	2133.9	2149.8	2172.0	2187.9	2226.0
30°	1959.2	1968.8	1959.2	1975.1	1981.5	1994.1	2003.8	2013.2	2032.2	2054.5	2089.4
32.5°	1806.9	1803.6	1806.9	1813.1	1832.2	1841.8	1848.1	1857.6	1876.6	1895.8	1924.2
35°	1625.9	1632.1	1635.4	1648.0	1648.0	1663.9	1667.1	1673.5	1702.0	1714.8	1737.0
37.5°	1435.2	1441.6	1444.9	1451.1	1463.9	1470.2	1479.8	1489.2	1508.4	1530.5	1543.2
40°	1267.0	1267.0	1270.1	1276.5	1286.0	1289.2	1298.8	1311.5	1324.1	1343.2	1355.9
42.5°	1108.2	1111.4	1108.2	1114.6	1124.1	1136.8	1133.6	1149.5	1152.6	1165.4	1174.9
45°	984.4	984.4	978.0	984.4	984.4	997.1	993.9	1000.2	997.1	1003.4	997.1
47.5°	866.9	870.1	866.9	870.1	870.1	870.1	873.2	866.9	870.1	860.5	841.5
50°	774.8	778.0	771.6	774.8	771.6	768.5	771.6	762.1	758.9	746.2	727.1
52.5°	695.4	692.2	689.1	689.1	689.1	685.9	682.8	673.2	663.6	651.0	628.8
55°	625.5	622.4	619.2	619.2	612.9	609.6	609.6	600.1	590.6	574.8	549.4
57.5°	562.0	558.9	555.8	555.8	552.5	546.1	546.1	536.6	524.0	504.9	482.6
60°	501.8	501.8	501.8	498.5	498.5	492.2	492.2	482.6	470.0	450.9	425.5
62.5°	447.8	444.5	444.5	444.5	444.5	441.4	438.2	431.9	419.1	400.1	377.9
65°	384.2	384.2	384.2	384.2	381.0	381.0	381.0	371.5	365.1	346.1	323.9
67.5°	314.4	314.4	314.4	314.4	311.2	314.4	314.4	308.0	301.6	282.6	263.5
70°	250.9	247.6	244.5	247.6	244.5	244.5	247.6	241.4	238.1	222.2	203.2
72.5°	184.1	187.4	184.1	184.1	184.1	181.0	184.1	181.0	174.6	162.0	149.2
75°	130.2	133.4	133.4	130.2	130.2	130.2	127.0	127.0	120.6	111.1	104.8
77.5°	88.9	88.9	88.9	88.9	85.8	85.8	85.8	82.5	79.4	73.0	66.6
80°	57.1	57.1	57.1	57.1	54.0	54.0	54.0	50.8	50.8	44.5	38.1
82.5°	34.9	34.9	34.9	34.9	34.9	34.9	31.8	31.8	28.6	25.4	22.2
85°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	15.9	15.9	12.8	9.5
87.5°	6.4	6.4	9.5	9.5	9.5	9.5	9.5	9.5	6.4	6.4	6.4
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°	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8
2.5°	2734.0	2737.2	2737.2	2737.2	2746.8	2749.9	2740.4	2730.9	2749.9	2746.8	2753.1
5°	2702.2	2711.8	2718.1	2721.4	2730.9	2737.2	2727.8	2724.5	2740.4	2743.6	2746.8
7.5°	2664.1	2680.0	2695.9	2702.2	2715.0	2721.4	2718.1	2718.1	2737.2	2743.6	2743.6
10°	2638.8	2661.0	2680.0	2695.9	2711.8	2721.4	2721.4	2724.5	2746.8	2753.1	2759.5
12.5°	2632.4	2661.0	2686.4	2708.6	2721.4	2737.2	2740.4	2749.9	2772.1	2781.6	2781.6
15°	2616.5	2654.6	2686.4	2715.0	2734.0	2753.1	2759.5	2778.5	2803.9	2810.2	2816.6
17.5°	2588.0	2626.1	2664.1	2699.1	2724.5	2740.4	2759.5	2778.5	2810.2	2819.8	2823.0
20°	2537.1	2581.6	2619.8	2654.6	2680.0	2702.2	2721.4	2743.6	2772.1	2784.9	2788.0
22.5°	2461.0	2505.4	2543.5	2581.6	2607.0	2626.1	2645.1	2670.5	2699.1	2711.8	2711.8
25°	2368.9	2410.1	2451.4	2480.0	2505.4	2527.6	2537.1	2565.8	2594.4	2610.2	2610.2
27.5°	2251.4	2289.5	2327.6	2359.4	2375.2	2394.2	2410.1	2435.5	2457.8	2470.5	2483.1
30°	2102.1	2140.2	2175.1	2206.9	2226.0	2245.0	2260.9	2280.0	2302.1	2318.0	2321.2
32.5°	1940.1	1972.0	2006.9	2038.6	2057.6	2064.0	2079.9	2099.0	2118.0	2130.8	2133.9
35°	1762.4	1784.6	1806.9	1835.4	1854.5	1854.5	1870.4	1883.0	1898.9	1927.5	1921.1
37.5°	1552.8	1584.5	1600.4	1610.0	1622.6	1635.4	1638.5	1654.4	1673.5	1679.8	1689.4
40°	1355.9	1365.4	1375.0	1375.0	1387.6	1387.6	1387.6	1390.9	1409.9	1413.1	1425.8
42.5°	1159.0	1159.0	1149.5	1140.0	1143.1	1140.0	1124.1	1124.1	1133.6	1146.4	1146.4
45°	974.9	952.6	924.0	901.9	886.0	879.6	860.5	860.5	857.4	860.5	873.2
47.5°	819.2	781.1	733.5	689.1	673.2	660.5	631.9	619.2	612.9	616.0	622.4
50°	689.1	647.8	593.8	539.9	511.2	495.4	460.4	438.2	435.0	428.6	441.4
52.5°	593.8	543.0	485.9	422.4	393.8	368.4	330.2	311.2	298.5	298.5	301.6
55°	511.2	457.2	393.8	330.2	301.6	282.6	244.5	219.1	206.4	203.2	212.8
57.5°	441.4	390.6	327.1	263.5	235.0	212.8	174.6	152.4	142.9	136.5	139.8
60°	387.4	336.6	273.1	212.8	187.4	162.0	130.2	104.8	92.1	92.1	95.2
62.5°	336.6	289.0	231.8	174.6	152.4	130.2	95.2	73.0	63.5	60.4	63.5
65°	285.8	241.4	193.8	146.1	123.9	104.8	76.2	57.1	44.5	41.2	44.5
67.5°	231.8	196.9	155.6	117.5	98.5	82.5	57.1	41.2	31.8	28.6	31.8
70°	181.0	149.2	117.5	85.8	73.0	60.4	41.2	31.8	22.2	19.0	22.2
72.5°	130.2	108.0	82.5	60.4	50.8	41.2	28.6	22.2	15.9	12.8	15.9
75°	88.9	73.0	54.0	38.1	31.8	28.6	19.0	12.8	9.5	9.5	9.5
77.5°	57.1	44.5	34.9	25.4	19.0	15.9	9.5	6.4	6.4	6.4	6.4
80°	31.8	25.4	19.0	12.8	9.5	9.5	6.4	6.4	3.1	3.1	3.1
82.5°	19.0	12.8	9.5	6.4	6.4	3.1	3.1	3.1	3.1	3.1	3.1
85°	9.5	6.4	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
87.5°	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8
2.5°	2740.4	2743.6	2734.0	2746.8	2737.2	2749.9	2749.9	2737.2	2740.4	2734.0	2746.8
5°	2734.0	2734.0	2727.8	2737.2	2724.5	2737.2	2734.0	2711.8	2718.1	2705.5	2718.1
7.5°	2734.0	2727.8	2718.1	2727.8	2711.8	2721.4	2708.6	2686.4	2680.0	2664.1	2664.1
10°	2743.6	2734.0	2721.4	2724.5	2708.6	2711.8	2692.8	2661.0	2651.5	2632.4	2626.1
12.5°	2765.8	2756.2	2737.2	2743.6	2721.4	2721.4	2695.9	2657.9	2638.8	2613.4	2607.0
15°	2797.5	2781.6	2759.5	2762.6	2740.4	2727.8	2695.9	2651.5	2626.1	2591.1	2581.6
17.5°	2803.9	2788.0	2759.5	2759.5	2730.9	2715.0	2676.9	2626.1	2594.4	2559.4	2540.4
20°	2769.0	2753.1	2721.4	2718.1	2692.8	2670.5	2629.2	2578.5	2546.8	2508.6	2492.8
22.5°	2695.9	2676.9	2648.2	2645.1	2619.8	2607.0	2562.6	2511.8	2480.0	2441.9	2429.2
25°	2588.0	2578.5	2549.9	2546.8	2524.5	2508.6	2470.5	2422.9	2394.2	2356.1	2343.5
27.5°	2461.0	2451.4	2422.9	2422.9	2397.5	2387.9	2353.0	2308.5	2286.2	2251.4	2235.5
30°	2308.5	2295.9	2280.0	2276.8	2254.5	2245.0	2213.2	2172.0	2149.8	2121.1	2114.9
32.5°	2127.5	2118.0	2108.5	2105.2	2083.1	2073.5	2051.4	2010.0	1991.0	1965.6	1956.0
35°	1918.0	1911.6	1902.1	1898.9	1889.4	1879.9	1857.6	1825.9	1816.4	1797.2	1787.8
37.5°	1676.6	1683.0	1676.6	1676.6	1667.1	1670.2	1651.2	1632.1	1622.6	1610.0	1603.6
40°	1416.2	1429.0	1438.5	1438.5	1435.2	1448.0	1444.9	1429.0	1425.8	1419.4	1416.2
42.5°	1152.6	1159.0	1178.1	1190.8	1187.6	1219.4	1222.5	1235.2	1244.8	1238.4	1241.6
45°	876.4	895.5	920.9	933.6	949.5	990.8	1013.0	1038.4	1060.6	1073.2	1070.1
47.5°	631.9	654.1	682.8	701.8	730.4	781.1	838.2	870.1	901.9	917.8	933.6
50°	457.2	479.5	514.4	543.0	562.0	631.9	692.2	733.5	768.5	790.6	806.5
52.5°	320.8	346.1	384.2	409.6	438.2	504.9	574.8	622.4	660.5	689.1	705.0
55°	222.2	250.9	285.8	311.2	343.0	412.8	479.5	530.2	571.6	597.0	616.0
57.5°	155.6	181.0	215.9	238.1	269.9	336.6	403.2	454.1	495.4	520.8	543.0
60°	104.8	130.2	165.1	187.4	212.8	279.4	339.8	393.8	431.9	457.2	479.5
62.5°	73.0	95.2	130.2	152.4	174.6	231.8	289.0	336.6	374.8	403.2	422.4
65°	57.1	76.2	104.8	123.9	146.1	193.8	241.4	282.6	320.8	349.2	362.0
67.5°	41.2	60.4	82.5	98.5	114.4	155.6	196.9	228.6	263.5	285.8	301.6
70°	28.6	41.2	60.4	73.0	85.8	117.5	149.2	177.9	203.2	219.1	231.8
72.5°	22.2	28.6	41.2	50.8	60.4	82.5	108.0	130.2	149.2	162.0	174.6
75°	12.8	19.0	28.6	34.9	41.2	57.1	73.0	88.9	101.6	111.1	117.5
77.5°	6.4	9.5	15.9	19.0	25.4	34.9	47.6	57.1	66.6	73.0	79.4
80°	6.4	6.4	9.5	9.5	12.8	19.0	25.4	31.8	38.1	44.5	47.6
82.5°	3.1	3.1	6.4	6.4	6.4	9.5	12.8	19.0	22.2	25.4	28.6
85°	3.1	3.1	3.1	3.1	3.1	6.4	6.4	9.5	12.8	15.9	15.9
87.5°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	6.4	6.4	6.4	9.5
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: P252620

CATALOG NUMBER: LE_6B50D010R EC6B30509727 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8	2746.8
2.5°	2737.2	2743.6	2740.4	2746.8	2737.2	2734.0	2740.4	2730.9
5°	2702.2	2705.5	2702.2	2702.2	2695.9	2689.6	2695.9	2686.4
7.5°	2648.2	2648.2	2638.8	2638.8	2626.1	2619.8	2619.8	2616.5
10°	2603.9	2594.4	2584.8	2588.0	2568.9	2562.6	2559.4	2556.2
12.5°	2581.6	2575.2	2559.4	2559.4	2540.4	2534.0	2530.9	2527.6
15°	2556.2	2543.5	2530.9	2527.6	2511.8	2505.4	2502.2	2495.9
17.5°	2511.8	2502.2	2486.4	2486.4	2470.5	2467.2	2461.0	2457.8
20°	2464.1	2451.4	2438.8	2438.8	2419.6	2419.6	2410.1	2413.4
22.5°	2397.5	2387.9	2375.2	2375.2	2359.4	2356.1	2346.6	2343.5
25°	2318.0	2305.4	2295.9	2292.6	2280.0	2273.6	2270.4	2264.1
27.5°	2213.2	2203.8	2194.2	2187.9	2172.0	2168.9	2159.2	2162.5
30°	2083.1	2076.8	2073.5	2067.2	2048.1	2041.8	2041.8	2032.2
32.5°	1940.1	1930.6	1924.2	1914.8	1898.9	1895.8	1886.2	1889.4
35°	1765.5	1752.9	1743.2	1746.5	1727.4	1724.2	1717.9	1721.1
37.5°	1584.5	1571.9	1559.1	1556.0	1540.1	1540.1	1530.5	1530.5
40°	1397.1	1384.5	1378.1	1378.1	1359.1	1362.2	1352.8	1349.5
42.5°	1228.9	1216.1	1213.0	1209.9	1200.2	1197.1	1187.6	1190.8
45°	1070.1	1067.0	1067.0	1060.6	1051.1	1047.9	1051.1	1051.1
47.5°	930.4	933.6	930.4	930.4	924.0	930.4	924.0	927.2
50°	812.9	819.2	819.2	819.2	816.1	819.2	819.2	822.4
52.5°	714.5	724.0	720.9	724.0	720.9	727.1	724.0	727.1
55°	628.8	635.1	638.2	641.4	641.4	641.4	641.4	641.4
57.5°	549.4	558.9	562.0	565.2	565.2	571.6	565.2	565.2
60°	485.9	495.4	498.5	501.8	501.8	504.9	498.5	501.8
62.5°	428.6	438.2	438.2	441.4	441.4	441.4	435.0	438.2
65°	371.5	374.8	377.9	377.9	374.8	374.8	371.5	374.8
67.5°	308.0	311.2	308.0	308.0	304.9	304.9	298.5	301.6
70°	238.1	238.1	241.4	238.1	235.0	238.1	235.0	231.8
72.5°	177.9	177.9	177.9	174.6	174.6	171.5	174.6	174.6
75°	120.6	120.6	123.9	123.9	123.9	123.9	120.6	120.6
77.5°	79.4	79.4	79.4	79.4	82.5	79.4	79.4	79.4
80°	50.8	50.8	54.0	54.0	50.8	50.8	50.8	50.8
82.5°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
85°	19.0	19.0	19.0	19.0	15.9	15.9	15.9	15.9
87.5°	9.5	9.5	9.5	9.5	9.5	9.5	6.4	6.4
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)