

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: P252723

Luminaire Tested: **LE\_6B50D010R EC6B30509050 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B50D010R EC6B30509050 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5436.3 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

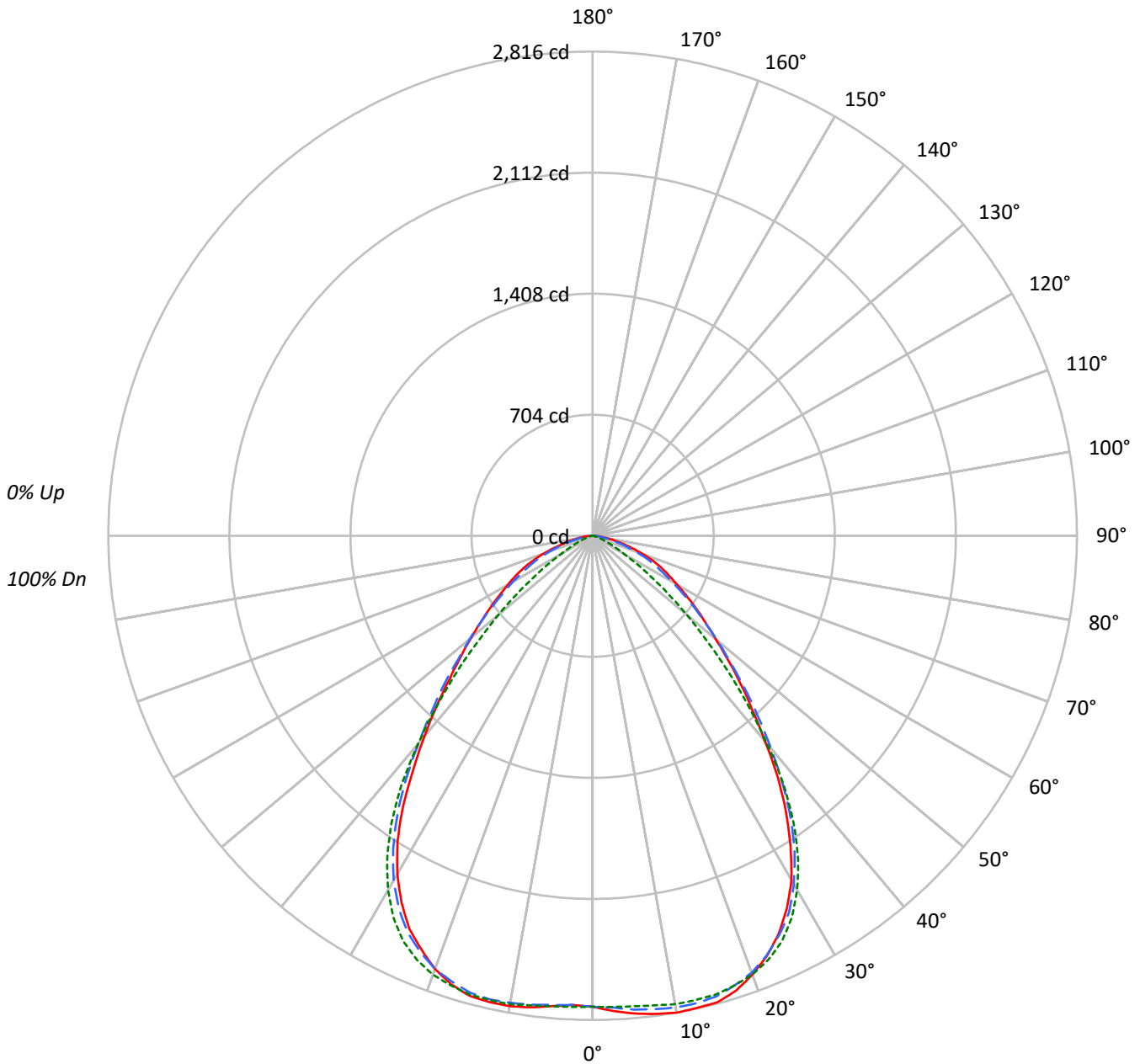
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

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

	0°	90°	180°
0°	178688	178688	178688
5°	182664	179874	179874
10°	186578	183239	184008
15°	189699	186558	187085
20°	188538	188538	186122
25°	184059	187392	181546
30°	174231	179188	171014
35°	156118	162299	153036
40°	132637	134289	129332
45°	112230	102589	108309
50°	94757	72347	93580
55°	83272	46703	82396
60°	73800	27806	74309
65°	68171	16749	68171
70°	59114	9614	57626
75°	46885	5848	43961
80°	34941	4358	33475
85°	31888	2919	29044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.7	4.9
10°-20°	780.4	14.4
20°-30°	1173.7	21.6
30°-40°	1234.0	22.7
40°-50°	921.9	17.0
50°-60°	573.9	10.6
60°-70°	326.4	6.0
70°-80°	134.4	2.5
80°-90°	27.8	0.5
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°	2217.8	40.8
0°-40°	3451.9	63.5
0°-60°	4947.6	91.0
0°-90°	5436.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5436.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2739	2739	2739	2739	2739	
5°	2789	2766	2747	2739	2747	267
15°	2809	2774	2762	2750	2770	790
25°	2557	2565	2603	2545	2522	1170
35°	1960	2011	2038	1980	1922	1216
45°	1216	1244	1112	1220	1174	943
55°	732	717	411	705	724	658
65°	442	395	108	395	442	435
75°	186	147	23	143	174	202
85°	43	27	4	23	39	47
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°	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9
2.5°	2766.0	2762.1	2766.0	2758.2	2754.4	2754.4	2758.2	2750.5	2746.6	2750.5	2746.6
5°	2789.2	2781.5	2785.4	2781.5	2773.8	2773.8	2777.6	2766.0	2766.0	2769.9	2766.0
7.5°	2804.8	2804.8	2804.8	2797.0	2793.1	2789.2	2797.0	2785.4	2781.5	2781.5	2777.6
10°	2816.4	2812.5	2816.4	2808.6	2800.9	2797.0	2804.8	2797.0	2789.2	2797.0	2785.4
12.5°	2812.5	2812.5	2812.5	2808.6	2800.9	2797.0	2804.8	2793.1	2789.2	2793.1	2785.4
15°	2808.6	2797.0	2800.9	2797.0	2785.4	2785.4	2789.2	2777.6	2769.9	2781.5	2773.8
17.5°	2773.8	2766.0	2769.9	2762.1	2754.4	2750.5	2754.4	2750.5	2742.8	2750.5	2742.8
20°	2715.6	2715.6	2719.5	2711.8	2704.0	2700.1	2707.9	2700.1	2692.4	2704.0	2704.0
22.5°	2645.9	2645.9	2645.9	2642.0	2638.1	2638.1	2638.1	2634.2	2630.4	2638.1	2642.0
25°	2556.9	2553.0	2556.9	2560.8	2556.9	2553.0	2556.9	2556.9	2549.1	2564.6	2564.6
27.5°	2444.5	2444.5	2452.2	2448.4	2448.4	2444.5	2452.2	2452.2	2448.4	2460.0	2471.6
30°	2312.8	2305.0	2312.8	2312.8	2316.6	2316.6	2320.5	2320.5	2320.5	2332.1	2339.9
32.5°	2142.2	2146.1	2157.8	2153.9	2150.0	2161.6	2161.6	2169.4	2173.2	2181.0	2184.9
35°	1960.2	1964.1	1964.1	1968.0	1975.8	1968.0	1987.4	1983.5	1987.4	2002.9	2010.6
37.5°	1766.5	1754.9	1774.2	1766.5	1770.4	1770.4	1778.1	1782.0	1793.6	1813.0	1813.0
40°	1557.4	1561.2	1569.0	1572.9	1576.8	1576.8	1576.8	1588.4	1592.2	1615.5	1611.6
42.5°	1375.2	1375.2	1383.0	1386.9	1386.9	1386.9	1386.9	1398.5	1406.2	1414.0	1421.8
45°	1216.4	1204.8	1212.5	1212.5	1220.2	1216.4	1224.1	1231.9	1235.8	1247.4	1243.5
47.5°	1065.4	1061.5	1065.4	1069.2	1065.4	1069.2	1073.1	1077.0	1080.9	1080.9	1080.9
50°	933.6	933.6	937.5	941.4	941.4	941.4	941.4	945.2	945.2	953.0	945.2
52.5°	825.1	829.0	829.0	825.1	829.0	829.0	832.9	832.9	829.0	829.0	817.4
55°	732.1	728.2	732.1	728.2	732.1	732.1	728.2	728.2	724.4	720.5	716.6
57.5°	643.1	643.1	643.1	643.1	639.2	643.1	639.2	635.4	635.4	627.6	616.0
60°	565.6	565.6	565.6	565.6	565.6	561.8	565.6	561.8	554.0	546.2	530.8
62.5°	499.8	495.9	499.8	495.9	495.9	492.0	492.0	488.1	480.4	472.6	457.1
65°	441.6	445.5	441.6	441.6	437.8	433.9	433.9	430.0	418.4	410.6	395.1
67.5°	379.6	375.8	375.8	375.8	371.9	371.9	371.9	364.1	356.4	344.8	329.2
70°	309.9	309.9	309.9	306.0	306.0	302.1	302.1	298.2	290.5	282.8	263.4
72.5°	244.0	244.0	244.0	236.2	240.1	236.2	236.2	228.6	224.8	213.1	201.5
75°	186.0	186.0	182.1	182.1	178.2	174.4	174.4	170.5	166.6	158.9	147.2
77.5°	135.6	135.6	135.6	131.8	127.9	124.0	124.0	120.1	116.2	112.4	104.6
80°	93.0	93.0	93.0	93.0	89.1	85.2	85.2	81.4	81.4	77.5	69.8
82.5°	62.0	62.0	62.0	62.0	58.1	58.1	58.1	54.2	50.4	50.4	42.6
85°	42.6	42.6	38.8	38.8	38.8	38.8	34.9	34.9	31.0	27.1	27.1
87.5°	23.2	23.2	23.2	23.2	19.4	19.4	19.4	19.4	15.5	15.5	11.6
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9
2.5°	2758.2	2758.2	2754.4	2742.8	2746.6	2742.8	2746.6	2742.8	2731.1	2742.8	2731.1
5°	2773.8	2777.6	2769.9	2754.4	2758.2	2754.4	2754.4	2750.5	2738.9	2746.6	2738.9
7.5°	2789.2	2785.4	2781.5	2766.0	2769.9	2766.0	2766.0	2758.2	2746.6	2754.4	2742.8
10°	2797.0	2797.0	2789.2	2773.8	2773.8	2769.9	2773.8	2769.9	2754.4	2766.0	2758.2
12.5°	2797.0	2793.1	2793.1	2773.8	2777.6	2773.8	2777.6	2769.9	2758.2	2766.0	2762.1
15°	2785.4	2785.4	2781.5	2762.1	2766.0	2766.0	2769.9	2762.1	2750.5	2762.1	2754.4
17.5°	2762.1	2762.1	2758.2	2742.8	2750.5	2750.5	2754.4	2746.6	2735.0	2742.8	2742.8
20°	2715.6	2719.5	2719.5	2707.9	2715.6	2715.6	2719.5	2715.6	2711.8	2715.6	2707.9
22.5°	2661.4	2669.1	2669.1	2657.5	2665.2	2665.2	2676.9	2673.0	2665.2	2669.1	2665.2
25°	2580.1	2587.9	2595.5	2587.9	2595.5	2595.5	2607.1	2603.2	2595.5	2603.2	2591.8
27.5°	2487.1	2491.0	2498.8	2491.0	2502.6	2498.8	2510.4	2506.5	2494.9	2506.5	2502.6
30°	2355.4	2370.9	2382.5	2370.9	2382.5	2382.5	2390.2	2386.4	2382.5	2378.6	2378.6
32.5°	2208.1	2223.6	2223.6	2219.8	2227.5	2227.5	2231.4	2223.6	2219.8	2223.6	2227.5
35°	2026.1	2033.9	2041.6	2037.8	2041.6	2045.5	2041.6	2045.5	2033.9	2037.8	2037.8
37.5°	1828.5	1836.2	1836.2	1824.6	1832.4	1832.4	1824.6	1824.6	1816.9	1824.6	1809.1
40°	1619.4	1611.6	1615.5	1607.8	1600.0	1600.0	1596.1	1580.6	1572.9	1576.8	1580.6
42.5°	1414.0	1414.0	1402.4	1383.0	1363.6	1363.6	1352.0	1344.2	1328.8	1336.5	1332.6
45°	1239.6	1220.2	1204.8	1173.9	1162.2	1154.5	1135.1	1115.8	1108.0	1111.9	1108.0
47.5°	1073.1	1057.6	1018.9	976.2	964.6	953.0	929.8	906.5	898.8	891.0	891.0
50°	933.6	906.5	863.9	817.4	798.0	778.6	747.6	724.4	708.9	712.8	712.8
52.5°	805.8	774.8	724.4	666.4	643.1	619.9	592.8	565.6	554.0	550.1	550.1
55°	693.5	658.6	608.2	542.4	523.0	495.9	461.0	430.0	414.5	410.6	418.4
57.5°	592.8	561.8	503.6	437.8	414.5	387.4	352.5	325.4	306.0	302.1	306.0
60°	511.4	468.8	418.4	356.4	325.4	302.1	263.4	240.1	220.9	213.1	217.0
62.5°	430.0	391.2	340.9	278.9	255.6	232.5	197.6	170.5	155.0	151.1	155.0
65°	368.0	329.2	282.8	228.6	205.4	182.1	151.1	124.0	112.4	108.5	112.4
67.5°	306.0	271.1	232.5	182.1	162.8	143.4	112.4	93.0	77.5	73.6	77.5
70°	247.9	217.0	178.2	143.4	124.0	108.5	85.2	65.9	54.2	50.4	54.2
72.5°	186.0	162.8	135.6	104.6	93.0	81.4	62.0	46.5	38.8	34.9	38.8
75°	135.6	116.2	96.9	73.6	65.9	58.1	42.6	31.0	27.1	23.2	27.1
77.5°	93.0	81.4	65.9	50.4	42.6	38.8	27.1	23.2	19.4	15.5	15.5
80°	62.0	54.2	42.6	34.9	31.0	27.1	19.4	15.5	11.6	11.6	11.6
82.5°	38.8	31.0	27.1	19.4	15.5	15.5	11.6	7.8	7.8	7.8	7.8
85°	23.2	19.4	15.5	11.6	7.8	7.8	3.9	3.9	3.9	3.9	3.9
87.5°	11.6	7.8	7.8	3.9	3.9	3.9	3.9	3.9	0.0	0.0	3.9
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9
2.5°	2738.9	2731.1	2731.1	2735.0	2738.9	2742.8	2735.0	2731.1	2731.1	2742.8	2735.0
5°	2738.9	2735.0	2735.0	2735.0	2742.8	2746.6	2738.9	2735.0	2738.9	2750.5	2746.6
7.5°	2750.5	2742.8	2746.6	2746.6	2750.5	2758.2	2750.5	2746.6	2750.5	2762.1	2754.4
10°	2758.2	2750.5	2754.4	2750.5	2762.1	2766.0	2758.2	2754.4	2758.2	2773.8	2769.9
12.5°	2762.1	2758.2	2758.2	2754.4	2766.0	2769.9	2762.1	2758.2	2762.1	2773.8	2769.9
15°	2754.4	2750.5	2750.5	2750.5	2758.2	2766.0	2754.4	2750.5	2750.5	2762.1	2758.2
17.5°	2738.9	2731.1	2731.1	2731.1	2735.0	2738.9	2727.2	2723.4	2719.5	2731.1	2727.2
20°	2711.8	2704.0	2696.2	2696.2	2700.1	2700.1	2692.4	2680.8	2680.8	2684.6	2676.9
22.5°	2661.4	2657.5	2649.8	2645.9	2653.6	2649.8	2634.2	2622.6	2618.8	2622.6	2614.9
25°	2591.8	2584.0	2580.1	2576.2	2580.1	2576.2	2560.8	2545.2	2545.2	2545.2	2533.6
27.5°	2494.9	2487.1	2483.2	2483.2	2487.1	2479.4	2463.9	2448.4	2440.6	2440.6	2429.0
30°	2370.9	2370.9	2367.0	2363.1	2359.2	2359.2	2336.0	2320.5	2312.8	2316.6	2308.9
32.5°	2219.8	2215.9	2212.0	2200.4	2204.2	2200.4	2181.0	2169.4	2157.8	2150.0	2146.1
35°	2026.1	2026.1	2022.2	2022.2	2022.2	2018.4	1999.0	1987.4	1979.6	1975.8	1964.1
37.5°	1813.0	1809.1	1805.2	1805.2	1805.2	1805.2	1793.6	1782.0	1782.0	1778.1	1770.4
40°	1572.9	1576.8	1580.6	1576.8	1588.4	1600.0	1584.5	1576.8	1572.9	1584.5	1569.0
42.5°	1340.4	1336.5	1355.9	1359.8	1359.8	1379.1	1383.0	1386.9	1383.0	1390.8	1390.8
45°	1115.8	1111.9	1131.2	1139.0	1158.4	1181.5	1193.1	1212.5	1220.2	1228.0	1220.2
47.5°	902.6	918.1	933.6	953.0	968.5	1007.2	1030.5	1049.9	1057.6	1069.2	1069.2
50°	724.4	739.9	767.0	782.5	801.9	848.4	887.1	914.2	929.8	941.4	937.5
52.5°	557.9	585.0	619.9	635.4	662.5	716.6	759.2	790.2	809.6	821.2	825.1
55°	430.0	453.2	488.1	511.4	538.5	596.6	650.9	685.8	705.1	720.5	728.2
57.5°	317.6	344.8	383.5	402.9	433.9	499.8	546.2	588.9	612.1	631.5	635.4
60°	232.5	259.5	294.4	317.6	348.6	414.5	468.8	507.5	534.6	550.1	557.9
62.5°	166.6	193.8	228.6	251.8	278.9	337.0	391.2	430.0	457.1	476.5	488.1
65°	120.1	147.2	182.1	201.5	224.8	278.9	329.2	368.0	395.1	418.4	426.1
67.5°	89.1	108.5	139.5	158.9	182.1	224.8	267.2	302.1	329.2	348.6	356.4
70°	65.9	81.4	108.5	120.1	135.6	174.4	209.2	240.1	263.4	278.9	286.6
72.5°	46.5	58.1	77.5	89.1	100.8	131.8	158.9	182.1	197.6	213.1	220.9
75°	31.0	38.8	54.2	62.0	69.8	93.0	112.4	131.8	143.4	155.0	158.9
77.5°	19.4	27.1	38.8	42.6	50.4	62.0	77.5	89.1	96.9	104.6	112.4
80°	11.6	15.5	23.2	27.1	31.0	42.6	50.4	58.1	65.9	73.6	77.5
82.5°	7.8	11.6	15.5	15.5	19.4	23.2	31.0	38.8	42.6	46.5	50.4
85°	3.9	3.9	7.8	7.8	11.6	11.6	15.5	19.4	23.2	27.1	31.0
87.5°	3.9	3.9	3.9	3.9	7.8	7.8	11.6	11.6	11.6	15.5	15.5
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: P252723

CATALOG NUMBER: LE\_6B50D010R EC6B30509050 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9	2738.9
2.5°	2727.2	2738.9	2727.2	2735.0	2731.1	2731.1	2727.2	2731.1
5°	2738.9	2754.4	2738.9	2750.5	2742.8	2742.8	2742.8	2746.6
7.5°	2750.5	2766.0	2754.4	2766.0	2762.1	2758.2	2758.2	2766.0
10°	2762.1	2773.8	2766.0	2777.6	2773.8	2769.9	2769.9	2777.6
12.5°	2762.1	2777.6	2769.9	2781.5	2777.6	2773.8	2773.8	2777.6
15°	2750.5	2769.9	2758.2	2769.9	2766.0	2762.1	2762.1	2769.9
17.5°	2715.6	2731.1	2723.4	2731.1	2731.1	2727.2	2731.1	2735.0
20°	2669.1	2680.8	2673.0	2680.8	2680.8	2673.0	2676.9	2680.8
22.5°	2603.2	2614.9	2607.1	2614.9	2611.0	2607.1	2607.1	2603.2
25°	2522.0	2537.5	2525.9	2533.6	2525.9	2518.1	2518.1	2522.0
27.5°	2421.2	2432.9	2417.4	2425.1	2417.4	2409.6	2409.6	2405.8
30°	2289.5	2293.4	2281.8	2289.5	2281.8	2277.9	2270.1	2270.1
32.5°	2130.6	2134.5	2122.9	2122.9	2115.2	2115.2	2099.8	2111.4
35°	1944.8	1948.6	1944.8	1940.9	1929.2	1925.4	1921.5	1921.5
37.5°	1751.0	1751.0	1739.4	1735.5	1727.8	1720.0	1723.9	1712.2
40°	1553.5	1549.6	1538.0	1541.9	1538.0	1526.4	1522.5	1518.6
42.5°	1367.5	1367.5	1355.9	1359.8	1352.0	1348.1	1336.5	1340.4
45°	1204.8	1204.8	1193.1	1193.1	1189.2	1177.8	1181.5	1173.9
47.5°	1057.6	1057.6	1053.8	1053.8	1042.1	1038.2	1038.2	1038.2
50°	929.8	929.8	929.8	929.8	925.9	922.0	918.1	922.0
52.5°	821.2	829.0	825.1	825.1	821.2	817.4	813.5	813.5
55°	724.4	728.2	728.2	732.1	728.2	724.4	728.2	724.4
57.5°	639.2	647.0	647.0	647.0	647.0	647.0	643.1	639.2
60°	565.6	569.5	569.5	573.4	573.4	573.4	569.5	569.5
62.5°	492.0	499.8	503.6	503.6	507.5	503.6	503.6	503.6
65°	433.9	441.6	445.5	441.6	445.5	445.5	441.6	441.6
67.5°	364.1	371.9	371.9	371.9	371.9	375.8	371.9	371.9
70°	294.4	302.1	298.2	302.1	302.1	302.1	302.1	302.1
72.5°	224.8	228.6	232.5	232.5	236.2	232.5	232.5	232.5
75°	162.8	170.5	170.5	170.5	170.5	174.4	174.4	174.4
77.5°	116.2	120.1	120.1	124.0	124.0	124.0	124.0	127.9
80°	81.4	81.4	85.2	85.2	89.1	89.1	89.1	89.1
82.5°	54.2	58.1	58.1	58.1	58.1	58.1	58.1	58.1
85°	31.0	34.9	34.9	34.9	34.9	38.8	38.8	38.8
87.5°	19.4	19.4	19.4	19.4	19.4	19.4	15.5	15.5
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)