

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: P252506

Luminaire Tested: **LE\_6B50D010R EC6B30508030 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B50D010R EC6B30508030 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5672.5 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

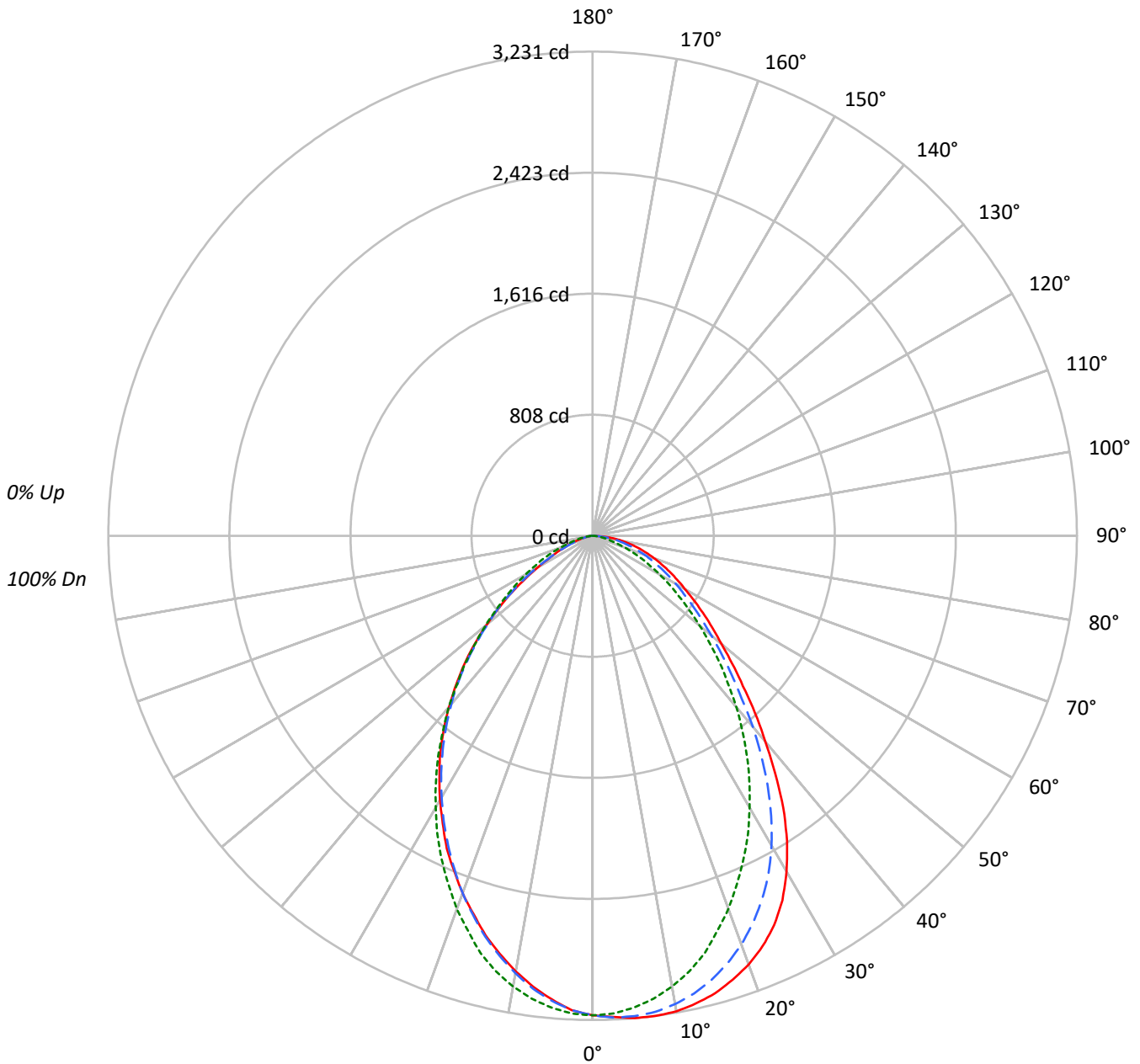
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35			35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33			33

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

	0°	90°	180°
0°	208777	208777	208777
5°	211611	206954	203464
10°	213475	202285	195508
15°	213440	194825	186423
20°	211379	183914	176200
25°	206367	171497	165738
30°	194872	157703	153349
35°	176643	143009	141241
40°	152540	127186	126812
45°	130821	110717	111547
50°	113676	94737	93377
55°	102130	79871	74821
60°	92785	67276	55089
65°	87143	55574	40476
70°	83091	43224	29662
75°	79553	31383	20166
80°	75141	21716	13338
85°	66546	13324	6662



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.3	5.3
10°-20°	819.9	14.5
20°-30°	1138.2	20.1
30°-40°	1178.9	20.8
40°-50°	968.8	17.1
50°-60°	665.8	11.7
60°-70°	382.8	6.7
70°-80°	176.0	3.1
80°-90°	42.8	0.8
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°	2257.4	39.8
0°-40°	3436.3	60.6
0°-60°	5070.9	89.4
0°-90°	5672.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5672.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3200	3200	3200	3200	3200	
5°	3231	3218	3160	3116	3107	308
15°	3160	3067	2884	2769	2760	890
25°	2867	2676	2382	2280	2302	1312
35°	2218	2036	1796	1742	1773	1375
45°	1418	1311	1200	1187	1209	1104
55°	898	813	702	662	658	808
65°	564	493	360	253	262	562
75°	316	249	124	80	80	334
85°	89	62	18	9	9	100
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°	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	3213.5	3240.1	3222.4	3217.9	3226.8	3226.8	3226.8	3213.5	3222.4	3209.0	3217.9
5°	3231.2	3253.5	3235.6	3226.8	3235.6	3240.1	3226.8	3217.9	3231.2	3213.5	3217.9
7.5°	3231.2	3253.5	3235.6	3231.2	3235.6	3235.6	3231.2	3213.5	3222.4	3204.6	3204.6
10°	3222.4	3240.1	3222.4	3213.5	3217.9	3213.5	3213.5	3191.2	3195.6	3173.5	3173.5
12.5°	3195.6	3217.9	3195.6	3186.8	3186.8	3186.8	3173.5	3155.6	3160.1	3133.5	3129.0
15°	3160.1	3177.9	3155.6	3146.8	3146.8	3142.4	3133.5	3106.8	3106.8	3080.1	3066.8
17.5°	3106.8	3124.6	3106.8	3093.5	3089.0	3080.1	3071.2	3044.6	3035.6	3004.6	2991.2
20°	3044.6	3057.9	3040.1	3026.8	3017.9	3009.0	2991.2	2964.6	2955.6	2924.6	2902.4
22.5°	2964.6	2982.4	2955.6	2942.4	2933.5	2920.1	2902.4	2875.6	2862.4	2822.4	2795.6
25°	2866.8	2875.6	2853.5	2840.1	2822.4	2813.5	2800.1	2764.5	2751.2	2706.8	2675.6
27.5°	2742.4	2751.2	2724.5	2715.6	2693.5	2684.5	2666.8	2635.6	2617.9	2573.5	2542.4
30°	2586.8	2595.6	2577.9	2564.5	2546.8	2529.0	2515.6	2484.5	2457.9	2413.4	2386.8
32.5°	2413.4	2426.8	2409.0	2391.2	2360.1	2364.5	2342.4	2311.2	2289.0	2249.0	2217.9
35°	2217.9	2226.8	2204.5	2200.1	2182.2	2164.5	2142.2	2120.1	2106.8	2062.2	2035.6
37.5°	2000.1	2022.2	2000.1	1982.2	1973.4	1960.1	1946.8	1915.6	1906.8	1880.1	1844.5
40°	1791.1	1804.5	1791.1	1773.4	1760.1	1760.1	1742.2	1724.5	1702.2	1675.6	1662.2
42.5°	1604.5	1595.6	1591.1	1582.2	1564.5	1560.1	1555.6	1533.4	1520.0	1493.4	1471.1
45°	1417.9	1422.2	1413.4	1409.0	1395.6	1386.8	1377.9	1360.0	1355.6	1329.0	1311.1
47.5°	1262.2	1257.9	1249.0	1249.0	1240.0	1231.1	1222.2	1209.0	1204.5	1182.2	1164.5
50°	1120.0	1124.5	1120.0	1115.6	1102.2	1097.9	1088.9	1080.0	1071.1	1048.9	1031.1
52.5°	1004.5	1000.0	995.6	995.6	982.2	977.9	968.9	960.0	951.1	928.9	915.6
55°	897.9	897.9	893.4	888.9	875.6	871.1	866.8	857.9	844.5	826.8	813.4
57.5°	800.0	800.0	795.6	791.1	782.2	782.2	773.4	764.5	755.6	737.8	720.0
60°	711.1	715.6	711.1	706.8	697.8	697.8	693.4	680.0	675.6	653.4	640.0
62.5°	635.6	635.6	635.6	631.1	626.8	617.8	617.8	604.5	595.6	582.2	564.5
65°	564.5	564.5	564.5	560.0	551.1	546.8	542.2	533.4	524.5	511.1	493.4
67.5°	497.8	497.8	497.8	493.4	484.5	480.0	475.6	471.1	457.8	444.5	426.6
70°	435.6	435.6	431.1	426.6	422.2	417.8	413.4	404.5	395.6	377.8	364.5
72.5°	373.4	373.4	373.4	364.5	360.0	360.0	351.1	346.6	337.8	320.0	306.6
75°	315.6	311.1	311.1	306.6	302.2	297.8	293.4	288.9	275.6	266.6	248.9
77.5°	257.8	257.8	253.4	248.9	248.9	244.5	240.0	231.1	226.6	213.4	200.0
80°	200.0	200.0	200.0	200.0	195.6	191.1	191.1	182.2	177.8	164.5	155.5
82.5°	151.1	146.6	146.6	146.6	142.2	137.8	137.8	133.4	128.9	120.0	111.1
85°	88.9	84.5	84.5	84.5	80.0	80.0	75.5	75.5	71.1	62.2	62.2
87.5°	26.6	26.6	31.1	31.1	26.6	26.6	26.6	26.6	26.6	22.2	22.2
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°	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	3209.0	3222.4	3204.6	3200.1	3217.9	3209.0	3204.6	3195.6	3200.1	3191.2	3177.9
5°	3204.6	3222.4	3200.1	3186.8	3209.0	3195.6	3186.8	3177.9	3177.9	3160.1	3151.2
7.5°	3191.2	3200.1	3177.9	3164.6	3177.9	3164.6	3155.6	3142.4	3137.9	3115.6	3102.4
10°	3155.6	3164.6	3137.9	3120.1	3133.5	3115.6	3102.4	3089.0	3080.1	3053.5	3035.6
12.5°	3106.8	3111.2	3080.1	3057.9	3066.8	3053.5	3031.2	3013.5	3004.6	2977.9	2955.6
15°	3040.1	3044.6	3009.0	2977.9	2986.8	2969.0	2942.4	2924.6	2911.2	2884.5	2853.5
17.5°	2960.1	2955.6	2915.6	2884.5	2889.0	2866.8	2840.1	2813.5	2795.6	2764.5	2742.4
20°	2871.2	2857.9	2813.5	2777.9	2782.4	2755.6	2724.5	2697.9	2675.6	2649.0	2617.9
22.5°	2760.1	2742.4	2702.4	2657.9	2662.4	2640.1	2595.6	2573.5	2551.2	2515.6	2489.0
25°	2640.1	2613.5	2573.5	2529.0	2529.0	2502.4	2466.8	2440.1	2417.9	2382.4	2351.2
27.5°	2497.9	2484.5	2431.2	2395.6	2391.2	2364.5	2333.4	2302.4	2275.6	2244.5	2213.4
30°	2342.4	2320.1	2280.1	2240.1	2231.2	2209.0	2177.9	2142.2	2124.5	2093.4	2066.8
32.5°	2177.9	2155.6	2111.2	2071.2	2066.8	2049.0	2022.2	1986.8	1969.0	1946.8	1929.0
35°	1991.2	1982.2	1937.9	1906.8	1906.8	1889.0	1862.2	1831.1	1817.9	1795.6	1773.4
37.5°	1813.4	1800.1	1760.1	1733.4	1733.4	1711.1	1684.5	1671.1	1657.9	1640.1	1626.8
40°	1626.8	1617.9	1586.8	1560.1	1564.5	1546.8	1529.0	1511.1	1502.2	1493.4	1480.0
42.5°	1453.4	1444.5	1422.2	1400.0	1400.0	1386.8	1369.0	1355.6	1346.8	1333.4	1329.0
45°	1297.9	1284.5	1266.8	1244.5	1244.5	1231.1	1222.2	1213.4	1209.0	1200.0	1186.8
47.5°	1146.8	1137.9	1120.0	1097.9	1097.9	1097.9	1080.0	1066.8	1066.8	1057.9	1053.4
50°	1017.9	1004.5	991.1	973.4	973.4	964.5	951.1	937.9	937.9	933.4	924.5
52.5°	897.9	888.9	871.1	853.4	853.4	844.5	831.1	826.8	822.2	808.9	804.5
55°	795.6	786.8	773.4	751.1	746.8	742.2	728.9	720.0	715.6	702.2	702.2
57.5°	702.2	693.4	671.1	657.8	653.4	644.5	631.1	622.2	617.8	608.9	600.0
60°	622.2	608.9	591.1	573.4	568.9	560.0	546.8	537.8	533.4	515.6	506.6
62.5°	546.8	533.4	515.6	497.8	493.4	484.5	466.6	457.8	448.9	431.1	422.2
65°	475.6	462.2	444.5	426.6	417.8	413.4	395.6	382.2	373.4	360.0	342.2
67.5°	408.9	395.6	377.8	355.6	355.6	342.2	328.9	315.6	302.2	288.9	275.6
70°	346.6	333.4	315.6	297.8	293.4	284.5	271.1	253.4	244.5	226.6	213.4
72.5°	288.9	275.6	257.8	240.0	235.6	226.6	213.4	195.6	182.2	168.9	155.5
75°	235.6	222.2	204.5	191.1	186.6	177.8	164.5	146.6	133.4	124.5	111.1
77.5°	186.6	173.4	160.0	146.6	142.2	133.4	120.0	111.1	97.8	88.9	75.5
80°	142.2	133.4	120.0	111.1	106.6	97.8	88.9	75.5	66.6	57.8	53.4
82.5°	102.2	93.4	84.5	71.1	71.1	62.2	57.8	48.9	40.0	35.5	31.1
85°	57.8	48.9	44.5	40.0	35.5	35.5	31.1	26.6	22.2	17.8	17.8
87.5°	17.8	17.8	13.4	13.4	13.4	13.4	8.9	8.9	8.9	8.9	8.9
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°	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	3177.9	3182.4	3173.5	3182.4	3173.5	3177.9	3169.0	3177.9	3169.0	3177.9	3160.1
5°	3146.8	3146.8	3133.5	3142.4	3133.5	3137.9	3120.1	3124.6	3115.6	3124.6	3106.8
7.5°	3093.5	3097.9	3075.6	3084.6	3071.2	3071.2	3057.9	3062.4	3049.0	3053.5	3040.1
10°	3031.2	3026.8	3004.6	3013.5	2995.6	2995.6	2982.4	2982.4	2964.6	2969.0	2951.2
12.5°	2942.4	2937.9	2911.2	2920.1	2902.4	2902.4	2889.0	2889.0	2871.2	2880.1	2862.4
15°	2840.1	2835.6	2809.0	2813.5	2795.6	2795.6	2777.9	2782.4	2769.0	2777.9	2760.1
17.5°	2724.5	2720.1	2693.5	2697.9	2675.6	2680.1	2666.8	2662.4	2653.5	2657.9	2644.5
20°	2604.5	2595.6	2569.0	2573.5	2564.5	2551.2	2542.4	2546.8	2537.9	2546.8	2533.4
22.5°	2480.1	2462.4	2440.1	2440.1	2431.2	2431.2	2417.9	2426.8	2409.0	2422.4	2413.4
25°	2337.9	2324.5	2306.8	2315.6	2297.9	2297.9	2284.5	2289.0	2280.1	2289.0	2280.1
27.5°	2200.1	2191.2	2164.5	2173.4	2160.1	2164.5	2151.2	2155.6	2151.2	2160.1	2151.2
30°	2053.4	2049.0	2031.2	2031.2	2026.8	2022.2	2017.9	2017.9	2013.4	2026.8	2017.9
32.5°	1915.6	1902.2	1884.5	1897.9	1875.6	1889.0	1880.1	1889.0	1880.1	1889.0	1884.5
35°	1773.4	1769.0	1746.8	1751.1	1746.8	1746.8	1742.2	1742.2	1742.2	1755.6	1755.6
37.5°	1622.2	1617.9	1604.5	1609.0	1600.1	1595.6	1595.6	1604.5	1604.5	1613.4	1613.4
40°	1475.6	1480.0	1466.8	1466.8	1462.2	1462.2	1462.2	1471.1	1466.8	1475.6	1471.1
42.5°	1329.0	1329.0	1315.6	1320.0	1315.6	1320.0	1320.0	1329.0	1329.0	1333.4	1329.0
45°	1191.1	1191.1	1186.8	1191.1	1182.2	1186.8	1182.2	1191.1	1186.8	1191.1	1191.1
47.5°	1053.4	1053.4	1053.4	1048.9	1048.9	1048.9	1048.9	1048.9	1044.5	1053.4	1048.9
50°	924.5	928.9	924.5	924.5	920.0	924.5	920.0	920.0	911.1	915.6	915.6
52.5°	808.9	808.9	800.0	800.0	800.0	795.6	795.6	795.6	791.1	791.1	782.2
55°	697.8	697.8	688.9	688.9	684.5	680.0	675.6	675.6	662.2	662.2	648.9
57.5°	595.6	591.1	577.8	577.8	568.9	564.5	560.0	555.6	546.8	537.8	533.4
60°	502.2	493.4	484.5	480.0	471.1	462.2	453.4	444.5	435.6	431.1	426.6
62.5°	413.4	400.0	391.1	386.6	377.8	364.5	355.6	346.6	337.8	333.4	324.5
65°	333.4	320.0	306.6	302.2	293.4	284.5	271.1	262.2	253.4	248.9	248.9
67.5°	262.2	248.9	231.1	231.1	222.2	213.4	204.5	195.6	191.1	195.6	195.6
70°	195.6	186.6	173.4	168.9	160.0	151.1	146.6	146.6	146.6	151.1	146.6
72.5°	146.6	133.4	124.5	120.0	115.5	111.1	111.1	111.1	106.6	111.1	111.1
75°	102.2	93.4	84.5	84.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0
77.5°	71.1	62.2	57.8	57.8	57.8	53.4	53.4	53.4	53.4	53.4	53.4
80°	44.5	44.5	40.0	40.0	35.5	35.5	35.5	35.5	35.5	35.5	35.5
82.5°	26.6	26.6	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
85°	13.4	13.4	13.4	13.4	13.4	8.9	8.9	8.9	8.9	8.9	8.9
87.5°	4.5	4.5	4.5	4.5	4.5	8.9	8.9	8.9	8.9	8.9	8.9
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: P252506

CATALOG NUMBER: LE\_6B50D010R EC6B30508030 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	3160.1	3173.5	3155.6	3169.0	3164.6	3160.1	3151.2	3169.0
5°	3106.8	3111.2	3093.5	3111.2	3106.8	3097.9	3089.0	3106.8
7.5°	3031.2	3044.6	3022.4	3040.1	3035.6	3026.8	3017.9	3035.6
10°	2946.8	2960.1	2942.4	2955.6	2955.6	2946.8	2933.5	2951.2
12.5°	2853.5	2862.4	2844.5	2862.4	2857.9	2849.0	2844.5	2857.9
15°	2751.2	2764.5	2746.8	2760.1	2755.6	2751.2	2746.8	2760.1
17.5°	2640.1	2653.5	2640.1	2653.5	2653.5	2640.1	2635.6	2644.5
20°	2529.0	2537.9	2524.5	2537.9	2533.4	2533.4	2524.5	2537.9
22.5°	2404.5	2417.9	2409.0	2417.9	2413.4	2413.4	2409.0	2417.9
25°	2280.1	2293.4	2280.1	2293.4	2289.0	2289.0	2280.1	2302.4
27.5°	2155.6	2164.5	2151.2	2169.0	2164.5	2155.6	2160.1	2164.5
30°	2022.2	2031.2	2022.2	2035.6	2035.6	2035.6	2026.8	2035.6
32.5°	1889.0	1902.2	1889.0	1902.2	1897.9	1897.9	1893.4	1902.2
35°	1755.6	1760.1	1751.1	1764.5	1764.5	1769.0	1760.1	1773.4
37.5°	1617.9	1622.2	1617.9	1622.2	1631.1	1617.9	1626.8	1631.1
40°	1475.6	1484.5	1480.0	1484.5	1484.5	1489.0	1484.5	1489.0
42.5°	1333.4	1342.2	1333.4	1346.8	1342.2	1342.2	1346.8	1346.8
45°	1186.8	1200.0	1191.1	1200.0	1204.5	1200.0	1200.0	1209.0
47.5°	1048.9	1057.9	1053.4	1057.9	1057.9	1057.9	1057.9	1066.8
50°	911.1	915.6	915.6	920.0	920.0	924.5	915.6	920.0
52.5°	773.4	782.2	782.2	782.2	777.8	782.2	782.2	782.2
55°	648.9	653.4	644.5	653.4	653.4	648.9	648.9	657.8
57.5°	528.9	528.9	528.9	528.9	528.9	524.5	528.9	528.9
60°	417.8	422.2	417.8	417.8	417.8	417.8	413.4	422.2
62.5°	324.5	324.5	320.0	324.5	324.5	324.5	328.9	328.9
65°	253.4	257.8	253.4	257.8	257.8	257.8	257.8	262.2
67.5°	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
70°	151.1	151.1	151.1	155.5	151.1	151.1	151.1	155.5
72.5°	111.1	111.1	111.1	111.1	111.1	111.1	115.5	115.5
75°	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
77.5°	53.4	53.4	53.4	57.8	53.4	57.8	53.4	53.4
80°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
82.5°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
85°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
87.5°	8.9	8.9	8.9	8.9	4.5	4.5	4.5	4.5
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)