

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: P252316

Luminaire Tested: **LE\_6B60D010R EC6B60709027 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60709027 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5667.5 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

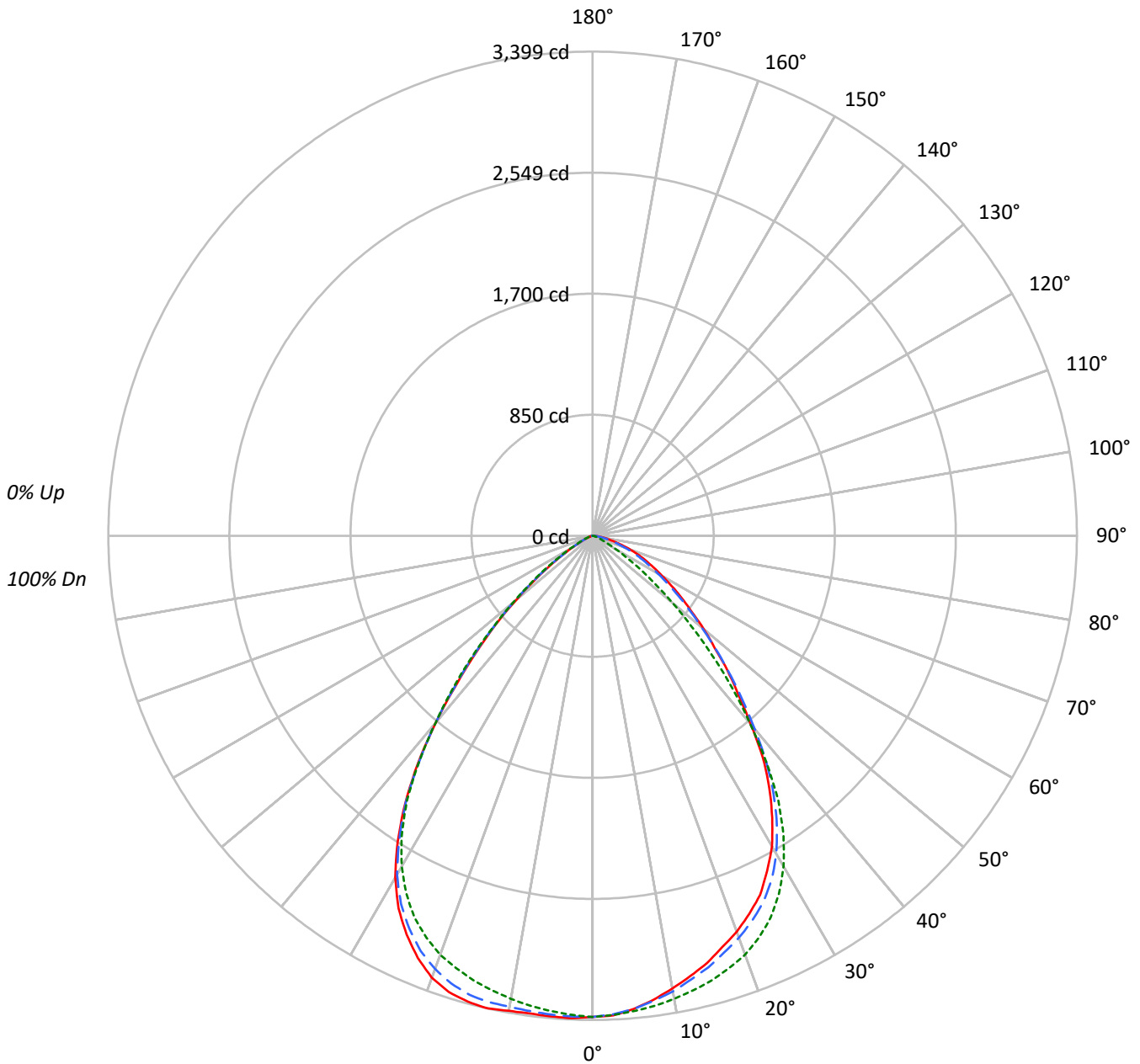
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

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

	0°	90°	180°
0°	220389	220389	220389
5°	218291	219365	221775
10°	213793	218655	224339
15°	209711	218242	228724
20°	205367	217253	229153
25°	200298	212932	222326
30°	189644	201931	208689
35°	172222	180991	182616
40°	146979	146280	145591
45°	123468	109536	106150
50°	103110	74113	70398
55°	86786	45486	41300
60°	73461	23956	20760
65°	63617	12597	10065
70°	52914	7783	5436
75°	39071	5142	3075
80°	30658	3043	1540
85°	24403	3069	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.4	5.6
10°-20°	911.6	16.1
20°-30°	1346.1	23.8
30°-40°	1387.3	24.5
40°-50°	958.2	16.9
50°-60°	472.3	8.3
60°-70°	191.4	3.4
70°-80°	68.2	1.2
80°-90°	14.1	0.2
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°	2576.1	45.5
0°-40°	3963.4	69.9
0°-60°	5393.8	95.2
0°-90°	5667.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5667.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3378	3378	3378	3378	3378	
5°	3333	3333	3350	3374	3386	315
15°	3105	3138	3231	3337	3386	874
25°	2782	2836	2958	3044	3088	1272
35°	2162	2215	2272	2285	2293	1340
45°	1338	1346	1187	1171	1150	1034
55°	763	734	400	375	363	689
65°	412	371	82	65	65	409
75°	155	130	20	12	12	174
85°	33	24	4	0	0	40
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°	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1
2.5°	3370.0	3357.8	3366.0	3349.6	3370.0	3349.6	3353.8	3357.8	3353.8	3357.8	3361.9
5°	3333.2	3321.0	3333.2	3312.9	3333.2	3321.0	3321.0	3325.1	3325.1	3329.2	3333.2
7.5°	3284.4	3272.1	3284.4	3264.0	3288.4	3276.1	3276.1	3284.4	3280.2	3284.4	3292.5
10°	3227.2	3210.9	3223.1	3210.9	3235.4	3219.0	3227.2	3227.2	3227.2	3239.5	3247.6
12.5°	3166.0	3149.8	3166.0	3145.6	3170.1	3157.9	3162.0	3174.1	3178.2	3186.4	3190.5
15°	3104.9	3084.4	3092.6	3080.4	3104.9	3092.6	3096.6	3113.0	3113.0	3125.2	3137.5
17.5°	3027.2	3011.0	3027.2	3011.0	3031.4	3023.2	3031.4	3043.6	3043.6	3055.9	3068.1
20°	2958.0	2941.6	2953.9	2941.6	2966.1	2953.9	2958.0	2974.2	2978.4	2990.6	3002.9
22.5°	2872.2	2860.0	2868.2	2856.0	2880.4	2872.2	2876.4	2892.6	2896.8	2904.9	2925.2
25°	2782.5	2758.0	2770.2	2762.1	2786.6	2774.4	2782.5	2798.9	2807.0	2819.2	2835.5
27.5°	2652.0	2639.8	2647.9	2647.9	2668.2	2656.0	2660.1	2676.4	2688.6	2700.9	2721.2
30°	2517.4	2496.9	2505.1	2509.1	2525.5	2517.4	2525.5	2541.8	2545.9	2562.2	2578.5
32.5°	2346.0	2337.8	2354.1	2346.0	2354.1	2354.1	2358.2	2370.4	2378.6	2386.8	2407.1
35°	2162.4	2146.0	2162.4	2154.2	2174.6	2162.4	2174.6	2186.9	2186.9	2203.1	2215.4
37.5°	1962.5	1942.0	1950.2	1950.2	1958.4	1954.2	1954.2	1974.6	1978.8	1991.0	2003.2
40°	1725.8	1717.6	1734.0	1729.9	1734.0	1734.0	1738.0	1750.2	1758.5	1762.5	1766.6
42.5°	1513.6	1517.8	1521.8	1521.8	1521.8	1521.8	1521.8	1538.1	1534.0	1546.2	1550.4
45°	1338.2	1321.9	1330.0	1326.0	1338.2	1326.0	1338.2	1350.5	1342.2	1354.5	1346.4
47.5°	1158.8	1158.8	1158.8	1154.6	1162.8	1158.8	1166.9	1171.0	1171.0	1171.0	1166.9
50°	1015.9	1003.6	1007.8	1007.8	1011.9	1007.8	1015.9	1020.0	1020.0	1011.9	995.5
52.5°	877.1	873.1	873.1	881.2	881.2	877.1	877.1	877.1	877.1	865.0	856.8
55°	763.0	754.8	758.9	758.9	758.9	758.9	763.0	758.9	758.9	746.6	734.4
57.5°	661.0	652.8	652.8	652.8	656.9	652.8	652.8	652.8	648.8	636.5	620.1
60°	563.0	559.0	563.0	563.0	567.1	563.0	563.0	563.0	554.9	542.6	526.2
62.5°	481.4	481.4	481.4	485.5	485.5	481.4	481.4	477.4	473.2	457.0	440.6
65°	412.1	408.0	412.1	412.1	416.1	416.1	412.1	408.0	403.9	387.6	371.2
67.5°	342.8	338.6	342.8	342.8	346.8	342.8	342.8	342.8	330.5	322.4	306.0
70°	277.4	273.4	273.4	273.4	277.4	269.2	273.4	273.4	265.2	253.0	236.6
72.5°	212.1	212.1	212.1	212.1	212.1	212.1	208.1	208.1	199.9	187.6	179.5
75°	155.0	155.0	159.1	159.1	155.0	155.0	155.0	151.0	146.9	138.8	130.5
77.5°	114.2	114.2	114.2	114.2	110.1	110.1	110.1	106.1	102.0	97.9	89.8
80°	81.6	81.6	81.6	77.5	81.6	77.5	77.5	77.5	69.4	65.2	61.2
82.5°	57.1	53.0	53.0	53.0	53.0	53.0	53.0	49.0	49.0	44.9	40.8
85°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	28.5	24.5	24.5
87.5°	16.4	20.4	20.4	20.4	20.4	20.4	20.4	16.4	16.4	16.4	12.2
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°	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1
2.5°	3361.9	3361.9	3370.0	3357.8	3378.1	3366.0	3361.9	3382.2	3370.0	3366.0	3374.1
5°	3333.2	3337.4	3341.5	3333.2	3353.8	3341.5	3341.5	3361.9	3353.8	3349.6	3361.9
7.5°	3296.6	3300.6	3308.9	3304.8	3321.0	3312.9	3317.0	3337.4	3329.2	3329.2	3341.5
10°	3251.8	3259.9	3268.0	3268.0	3288.4	3280.2	3280.2	3304.8	3296.6	3300.6	3317.0
12.5°	3198.6	3210.9	3223.1	3227.2	3247.6	3235.4	3239.5	3268.0	3264.0	3268.0	3284.4
15°	3141.5	3157.9	3170.1	3170.1	3194.6	3182.4	3194.6	3223.1	3215.0	3231.2	3251.8
17.5°	3076.2	3092.6	3108.9	3113.0	3137.5	3129.2	3145.6	3174.1	3174.1	3182.4	3206.9
20°	3015.1	3035.5	3043.6	3055.9	3080.4	3076.2	3084.4	3117.1	3117.1	3129.2	3153.8
22.5°	2933.5	2953.9	2970.1	2982.4	3002.9	3002.9	3015.1	3043.6	3043.6	3051.8	3076.2
25°	2843.8	2868.2	2880.4	2892.6	2913.1	2909.0	2921.2	2945.8	2949.8	2958.0	2982.4
27.5°	2729.5	2749.9	2766.2	2774.4	2802.9	2786.6	2798.9	2827.4	2823.2	2831.5	2851.9
30°	2586.6	2607.1	2623.4	2623.4	2647.9	2647.9	2660.1	2672.4	2672.4	2680.5	2696.9
32.5°	2419.4	2443.9	2443.9	2456.1	2472.4	2456.1	2472.4	2488.8	2480.6	2492.9	2505.1
35°	2227.6	2239.9	2244.0	2244.0	2256.2	2252.1	2248.0	2260.2	2252.1	2272.5	2284.8
37.5°	1995.1	2011.4	2003.2	2011.4	2007.4	1995.1	1995.1	2015.5	1999.1	2003.2	2015.5
40°	1770.8	1770.8	1766.6	1746.2	1750.2	1738.0	1734.0	1738.0	1721.8	1717.6	1734.0
42.5°	1538.1	1534.0	1521.8	1493.2	1497.4	1476.9	1460.6	1460.6	1452.5	1448.4	1452.5
45°	1330.0	1317.9	1297.4	1264.8	1256.6	1240.2	1207.6	1199.5	1187.2	1187.2	1191.4
47.5°	1138.2	1122.0	1089.4	1052.6	1032.2	1011.9	979.1	967.0	946.5	938.4	946.5
50°	979.1	950.6	909.9	856.8	836.4	811.9	779.2	758.9	738.5	730.2	726.2
52.5°	832.2	791.5	750.8	685.4	669.1	644.6	599.8	579.4	559.0	542.6	542.6
55°	705.9	669.1	612.0	550.8	526.2	501.9	457.0	428.4	408.0	399.9	391.6
57.5°	591.6	550.8	497.8	432.5	408.0	383.5	338.6	310.1	289.6	277.4	269.2
60°	497.8	452.9	399.9	342.8	314.1	289.6	244.8	216.2	195.9	183.6	175.4
62.5°	408.0	371.2	318.2	265.2	240.8	216.2	179.5	151.0	130.5	122.4	110.1
65°	342.8	306.0	257.0	212.1	191.8	167.2	134.6	110.1	93.9	81.6	73.5
67.5°	277.4	248.9	208.1	167.2	146.9	130.5	102.0	81.6	65.2	57.1	53.0
70°	220.4	191.8	159.1	126.5	114.2	97.9	77.5	57.1	49.0	40.8	36.8
72.5°	163.2	142.8	118.4	93.9	81.6	73.5	53.0	44.9	32.6	28.5	24.5
75°	118.4	102.0	85.6	65.2	57.1	53.0	40.8	28.5	24.5	20.4	16.4
77.5°	81.6	73.5	57.1	44.9	40.8	36.8	28.5	20.4	16.4	12.2	12.2
80°	53.0	44.9	36.8	28.5	28.5	24.5	16.4	12.2	12.2	8.1	8.1
82.5°	32.6	28.5	24.5	20.4	16.4	16.4	12.2	8.1	8.1	4.1	4.1
85°	20.4	16.4	12.2	12.2	8.1	8.1	8.1	4.1	4.1	4.1	4.1
87.5°	8.1	8.1	8.1	4.1	4.1	4.1	4.1	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°	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1
2.5°	3374.1	3374.1	3382.2	3370.0	3378.1	3378.1	3386.4	3370.0	3378.1	3382.2	3390.4
5°	3357.8	3361.9	3370.0	3366.0	3370.0	3370.0	3378.1	3357.8	3374.1	3374.1	3386.4
7.5°	3341.5	3341.5	3349.6	3345.5	3353.8	3357.8	3366.0	3349.6	3366.0	3366.0	3378.1
10°	3321.0	3321.0	3333.2	3329.2	3341.5	3345.5	3357.8	3341.5	3357.8	3361.9	3374.1
12.5°	3292.5	3296.6	3308.9	3308.9	3321.0	3329.2	3341.5	3333.2	3353.8	3357.8	3374.1
15°	3259.9	3268.0	3284.4	3280.2	3292.5	3304.8	3321.0	3308.9	3337.4	3345.5	3361.9
17.5°	3219.0	3227.2	3239.5	3239.5	3251.8	3259.9	3280.2	3272.1	3296.6	3300.6	3321.0
20°	3157.9	3170.1	3186.4	3182.4	3194.6	3202.8	3219.0	3210.9	3235.4	3243.5	3264.0
22.5°	3084.4	3092.6	3104.9	3104.9	3117.1	3125.2	3141.5	3129.2	3153.8	3157.9	3174.1
25°	2986.5	2994.6	3002.9	3006.9	3019.1	3023.2	3031.4	3023.2	3043.6	3047.8	3068.1
27.5°	2860.0	2864.1	2876.4	2876.4	2884.5	2888.6	2900.9	2884.5	2913.1	2913.1	2925.2
30°	2709.1	2705.0	2721.2	2713.1	2721.2	2721.2	2733.5	2725.4	2745.8	2737.6	2749.9
32.5°	2509.1	2517.4	2517.4	2509.1	2525.5	2521.4	2521.4	2513.2	2525.5	2529.5	2537.8
35°	2276.6	2288.9	2288.9	2292.9	2297.0	2284.8	2288.9	2264.4	2284.8	2288.9	2292.9
37.5°	2023.6	2011.4	2019.6	2007.4	2027.8	2003.2	2003.2	1986.9	2003.2	2003.2	2007.4
40°	1734.0	1729.9	1738.0	1729.9	1725.8	1721.8	1713.6	1701.4	1717.6	1709.5	1721.8
42.5°	1460.6	1456.5	1456.5	1448.4	1444.2	1444.2	1436.1	1428.0	1423.9	1423.9	1444.2
45°	1179.1	1187.2	1179.1	1175.0	1183.1	1175.0	1179.1	1162.8	1171.0	1162.8	1171.0
47.5°	942.5	946.5	938.4	930.2	942.5	930.2	930.2	918.0	934.2	934.2	926.1
50°	730.2	726.2	718.1	726.2	722.1	722.1	722.1	709.9	718.1	705.9	714.0
52.5°	538.5	534.5	534.5	530.4	534.5	530.4	530.4	526.2	526.2	522.2	526.2
55°	391.6	387.6	379.4	379.4	379.4	383.5	379.4	375.4	375.4	371.2	375.4
57.5°	265.2	257.0	257.0	257.0	257.0	253.0	253.0	248.9	253.0	248.9	253.0
60°	171.4	171.4	163.2	163.2	163.2	163.2	163.2	159.1	163.2	163.2	163.2
62.5°	106.1	106.1	102.0	97.9	102.0	97.9	97.9	97.9	102.0	97.9	102.0
65°	69.4	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
67.5°	49.0	44.9	44.9	44.9	44.9	44.9	44.9	40.8	44.9	44.9	44.9
70°	32.6	32.6	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
72.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
75°	16.4	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	12.2	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	8.1	8.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: P252316

CATALOG NUMBER: LE\_6B60D010R EC6B60709027 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1	3378.1
2.5°	3378.1	3382.2	3374.1	3378.1	3370.0	3378.1	3382.2	3390.4
5°	3370.0	3374.1	3366.0	3374.1	3366.0	3374.1	3378.1	3386.4
7.5°	3361.9	3370.0	3361.9	3370.0	3361.9	3370.0	3374.1	3382.2
10°	3361.9	3374.1	3366.0	3378.1	3366.0	3374.1	3382.2	3386.4
12.5°	3361.9	3374.1	3370.0	3378.1	3374.1	3382.2	3390.4	3398.6
15°	3353.8	3366.0	3357.8	3370.0	3366.0	3370.0	3386.4	3386.4
17.5°	3308.9	3321.0	3321.0	3329.2	3329.2	3341.5	3349.6	3357.8
20°	3251.8	3264.0	3259.9	3272.1	3272.1	3284.4	3292.5	3300.6
22.5°	3166.0	3182.4	3178.2	3190.5	3186.4	3194.6	3210.9	3206.9
25°	3055.9	3076.2	3072.1	3080.4	3076.2	3076.2	3084.4	3088.5
27.5°	2921.2	2933.5	2929.4	2937.5	2929.4	2937.5	2945.8	2949.8
30°	2745.8	2754.0	2749.9	2754.0	2749.9	2758.0	2762.1	2770.2
32.5°	2533.6	2545.9	2533.6	2541.8	2537.8	2537.8	2554.0	2545.9
35°	2280.6	2284.8	2288.9	2288.9	2280.6	2284.8	2292.9	2292.9
37.5°	1999.1	2019.6	1995.1	2007.4	2003.2	2003.2	2003.2	2015.5
40°	1705.4	1709.5	1701.4	1701.4	1701.4	1697.2	1713.6	1709.5
42.5°	1428.0	1432.0	1428.0	1415.8	1419.9	1419.9	1432.0	1415.8
45°	1158.8	1166.9	1162.8	1162.8	1154.6	1154.6	1158.8	1150.5
47.5°	918.0	926.1	913.9	918.0	909.9	918.0	913.9	922.1
50°	697.6	705.9	701.8	705.9	705.9	697.6	709.9	693.6
52.5°	522.2	526.2	522.2	518.1	514.1	514.1	522.2	518.1
55°	371.2	367.2	367.2	367.2	371.2	371.2	367.2	363.1
57.5°	248.9	248.9	244.8	244.8	248.9	240.8	244.8	240.8
60°	159.1	159.1	159.1	159.1	155.0	159.1	159.1	159.1
62.5°	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
65°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
67.5°	40.8	44.9	44.9	44.9	40.8	40.8	40.8	40.8
70°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
72.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
75°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	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)