

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: P252321

Luminaire Tested: **LE_6B60D010R EC6B60709727 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252321
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 EC6B60709727 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4928.7 lumens
Efficiency: N/A
Efficacy: 78.9 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

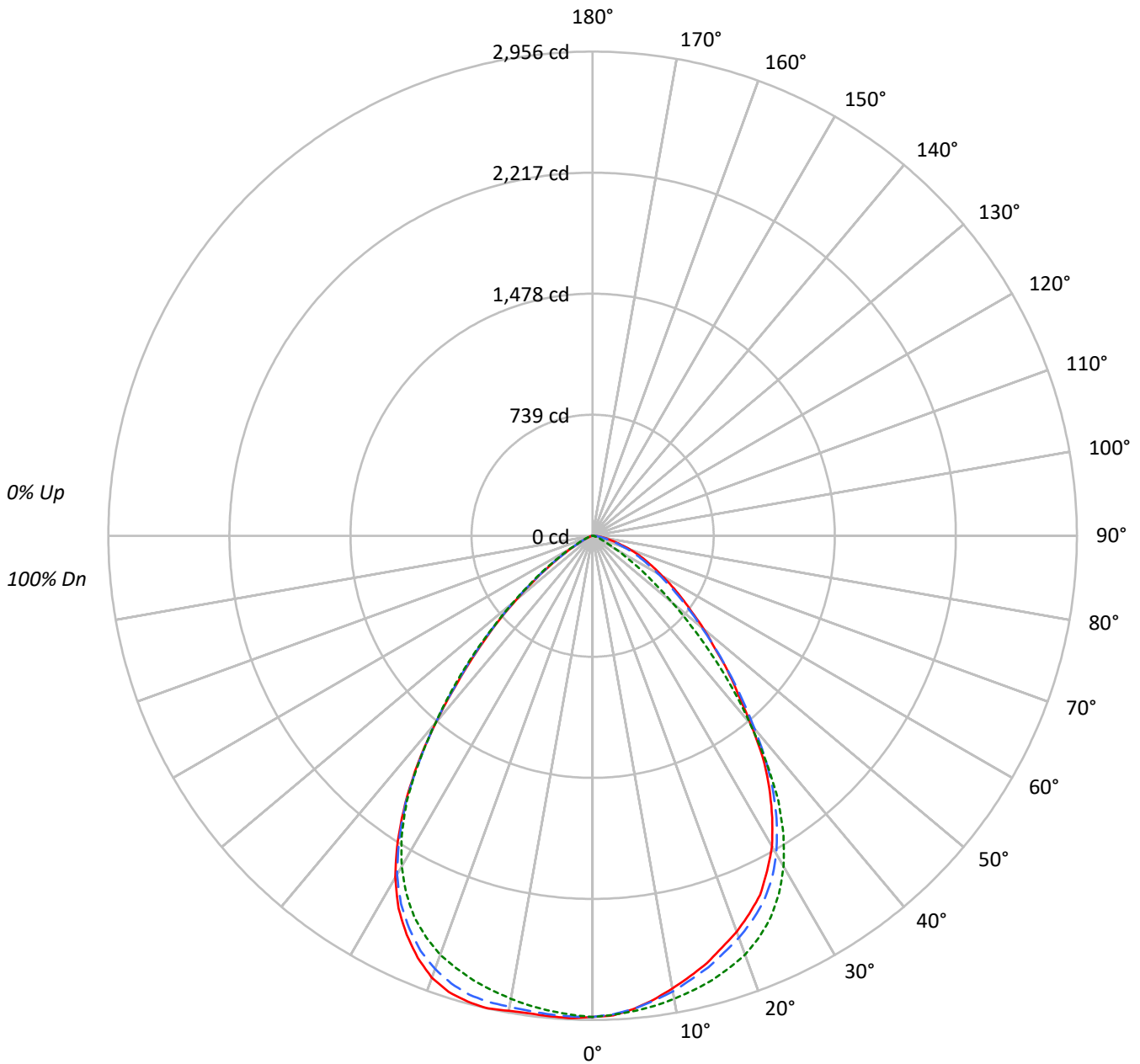
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	191670	191670	191670
5°	189842	190772	192861
10°	185922	190156	195091
15°	182370	189800	198905
20°	178596	188940	199285
25°	174197	185174	193345
30°	164912	175610	181486
35°	149771	157393	158810
40°	127825	127220	126607
45°	107377	95263	92320
50°	89672	64460	61212
55°	75469	39560	35920
60°	63884	20825	18059
65°	55327	10960	8768
70°	46009	6772	4750
75°	34004	4487	2672
80°	26675	2668	1315
85°	21259	2620	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.9	5.6
10°-20°	792.8	16.1
20°-30°	1170.6	23.8
30°-40°	1206.4	24.5
40°-50°	833.3	16.9
50°-60°	410.7	8.3
60°-70°	166.4	3.4
70°-80°	59.3	1.2
80°-90°	12.2	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°	2240.3	45.5
0°-40°	3446.7	69.9
0°-60°	4690.8	95.2
0°-90°	4928.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4928.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2938	2938	2938	2938	2938	
5°	2899	2899	2913	2934	2945	274
15°	2700	2728	2810	2902	2945	760
25°	2420	2466	2572	2647	2686	1106
35°	1880	1927	1976	1987	1994	1165
45°	1164	1171	1032	1018	1001	900
55°	664	639	348	326	316	600
65°	358	323	71	57	57	356
75°	135	114	18	11	11	151
85°	28	21	4	0	0	35
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°	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9
2.5°	2930.8	2920.1	2927.2	2913.0	2930.8	2913.0	2916.5	2920.1	2916.5	2920.1	2923.6
5°	2898.8	2888.1	2898.8	2881.1	2898.8	2888.1	2888.1	2891.8	2891.8	2895.2	2898.8
7.5°	2856.2	2845.6	2856.2	2838.5	2859.8	2849.1	2849.1	2856.2	2852.6	2856.2	2863.4
10°	2806.5	2792.4	2803.0	2792.4	2813.6	2799.5	2806.5	2806.5	2806.5	2817.2	2824.2
12.5°	2753.4	2739.1	2753.4	2735.6	2756.9	2746.2	2749.8	2760.4	2764.0	2771.1	2774.6
15°	2700.1	2682.4	2689.5	2678.9	2700.1	2689.5	2693.0	2707.2	2707.2	2717.9	2728.5
17.5°	2632.8	2618.5	2632.8	2618.5	2636.2	2629.1	2636.2	2646.9	2646.9	2657.5	2668.1
20°	2572.4	2558.2	2568.9	2558.2	2579.5	2568.9	2572.4	2586.6	2590.1	2600.8	2611.4
22.5°	2497.9	2487.2	2494.4	2483.6	2505.0	2497.9	2501.4	2515.6	2519.1	2526.2	2544.0
25°	2419.9	2398.5	2409.1	2402.1	2423.4	2412.8	2419.9	2434.0	2441.1	2451.8	2466.0
27.5°	2306.2	2295.6	2302.8	2302.8	2320.5	2309.9	2313.4	2327.6	2338.2	2348.9	2366.6
30°	2189.1	2171.5	2178.5	2182.1	2196.2	2189.1	2196.2	2210.5	2214.0	2228.2	2242.4
32.5°	2040.1	2033.1	2047.2	2040.1	2047.2	2047.2	2050.8	2061.5	2068.5	2075.6	2093.4
35°	1880.5	1866.2	1880.5	1873.4	1891.1	1880.5	1891.1	1901.8	1901.8	1916.0	1926.6
37.5°	1706.6	1688.9	1696.0	1696.0	1703.1	1699.5	1699.5	1717.2	1720.9	1731.5	1742.1
40°	1500.9	1493.8	1508.0	1504.4	1508.0	1508.0	1511.5	1522.1	1529.2	1532.8	1536.4
42.5°	1316.4	1319.9	1323.5	1323.5	1323.5	1323.5	1323.5	1337.6	1334.1	1344.8	1348.2
45°	1163.8	1149.6	1156.6	1153.1	1163.8	1153.1	1163.8	1174.4	1167.4	1178.0	1170.9
47.5°	1007.6	1007.6	1007.6	1004.1	1011.2	1007.6	1014.8	1018.2	1018.2	1018.2	1014.8
50°	883.5	872.9	876.4	876.4	879.9	876.4	883.5	887.0	887.0	879.9	865.8
52.5°	762.9	759.2	759.2	766.4	766.4	762.9	762.9	762.9	762.9	752.2	745.1
55°	663.5	656.4	660.0	660.0	660.0	660.0	663.5	660.0	660.0	649.2	638.6
57.5°	574.8	567.8	567.8	567.8	571.2	567.8	567.8	567.8	564.1	553.5	539.4
60°	489.6	486.1	489.6	489.6	493.2	489.6	489.6	489.6	482.5	471.9	457.8
62.5°	418.6	418.6	418.6	422.2	422.2	418.6	418.6	415.1	411.6	397.4	383.2
65°	358.4	354.8	358.4	358.4	361.9	361.9	358.4	354.8	351.2	337.1	322.9
67.5°	298.0	294.5	298.0	298.0	301.6	298.0	298.0	298.0	287.4	280.2	266.1
70°	241.2	237.8	237.8	237.8	241.2	234.1	237.8	237.8	230.6	220.0	205.8
72.5°	184.5	184.5	184.5	184.5	184.5	184.5	181.0	181.0	173.9	163.2	156.1
75°	134.9	134.9	138.4	138.4	134.9	134.9	134.9	131.2	127.8	120.6	113.5
77.5°	99.4	99.4	99.4	99.4	95.8	95.8	95.8	92.2	88.8	85.1	78.0
80°	71.0	71.0	71.0	67.4	71.0	67.4	67.4	67.4	60.4	56.8	53.2
82.5°	49.6	46.1	46.1	46.1	46.1	46.1	46.1	42.6	42.6	39.0	35.5
85°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	24.9	21.2	21.2
87.5°	14.2	17.8	17.8	17.8	17.8	17.8	17.8	14.2	14.2	14.2	10.6
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°	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9
2.5°	2923.6	2923.6	2930.8	2920.1	2937.9	2927.2	2923.6	2941.4	2930.8	2927.2	2934.2
5°	2898.8	2902.4	2905.9	2898.8	2916.5	2905.9	2905.9	2923.6	2916.5	2913.0	2923.6
7.5°	2866.9	2870.4	2877.5	2874.0	2888.1	2881.1	2884.6	2902.4	2895.2	2895.2	2905.9
10°	2827.9	2835.0	2842.0	2842.0	2859.8	2852.6	2852.6	2874.0	2866.9	2870.4	2884.6
12.5°	2781.8	2792.4	2803.0	2806.5	2824.2	2813.6	2817.2	2842.0	2838.5	2842.0	2856.2
15°	2732.0	2746.2	2756.9	2756.9	2778.1	2767.5	2778.1	2803.0	2795.9	2810.1	2827.9
17.5°	2675.2	2689.5	2703.6	2707.2	2728.5	2721.4	2735.6	2760.4	2760.4	2767.5	2788.9
20°	2622.0	2639.8	2646.9	2657.5	2678.9	2675.2	2682.4	2710.8	2710.8	2721.4	2742.8
22.5°	2551.1	2568.9	2583.0	2593.6	2611.4	2611.4	2622.0	2646.9	2646.9	2654.0	2675.2
25°	2473.0	2494.4	2505.0	2515.6	2533.4	2529.8	2540.5	2561.8	2565.2	2572.4	2593.6
27.5°	2373.8	2391.4	2405.6	2412.8	2437.5	2423.4	2434.0	2458.9	2455.2	2462.4	2480.1
30°	2249.5	2267.2	2281.4	2281.4	2302.8	2302.8	2313.4	2324.0	2324.0	2331.1	2345.2
32.5°	2104.0	2125.4	2125.4	2136.0	2150.1	2136.0	2150.1	2164.4	2157.2	2167.9	2178.5
35°	1937.2	1947.9	1951.5	1951.5	1962.1	1958.5	1955.0	1965.6	1958.5	1976.2	1987.0
37.5°	1735.0	1749.2	1742.1	1749.2	1745.6	1735.0	1735.0	1752.8	1738.6	1742.1	1752.8
40°	1539.9	1539.9	1536.4	1518.6	1522.1	1511.5	1508.0	1511.5	1497.2	1493.8	1508.0
42.5°	1337.6	1334.1	1323.5	1298.6	1302.1	1284.4	1270.2	1270.2	1263.1	1259.6	1263.1
45°	1156.6	1146.0	1128.2	1099.9	1092.9	1078.6	1050.2	1043.1	1032.5	1032.5	1036.0
47.5°	989.9	975.8	947.4	915.4	897.6	879.9	851.5	840.9	823.1	816.1	823.1
50°	851.5	826.8	791.2	745.1	727.4	706.1	677.8	660.0	642.2	635.1	631.6
52.5°	723.9	688.4	652.9	596.1	581.9	560.6	521.6	503.9	486.1	471.9	471.9
55°	613.9	581.9	532.2	479.0	457.8	436.4	397.4	372.5	354.8	347.8	340.6
57.5°	514.5	479.0	432.9	376.1	354.8	333.5	294.5	269.6	251.9	241.2	234.1
60°	432.9	393.9	347.8	298.0	273.2	251.9	212.9	188.0	170.2	159.6	152.6
62.5°	354.8	322.9	276.8	230.6	209.4	188.0	156.1	131.2	113.5	106.5	95.8
65°	298.0	266.1	223.5	184.5	166.8	145.5	117.1	95.8	81.6	71.0	63.9
67.5°	241.2	216.4	181.0	145.5	127.8	113.5	88.8	71.0	56.8	49.6	46.1
70°	191.6	166.8	138.4	110.0	99.4	85.1	67.4	49.6	42.6	35.5	31.9
72.5°	141.9	124.1	102.9	81.6	71.0	63.9	46.1	39.0	28.4	24.9	21.2
75°	102.9	88.8	74.5	56.8	49.6	46.1	35.5	24.9	21.2	17.8	14.2
77.5°	71.0	63.9	49.6	39.0	35.5	31.9	24.9	17.8	14.2	10.6	10.6
80°	46.1	39.0	31.9	24.9	24.9	21.2	14.2	10.6	10.6	7.1	7.1
82.5°	28.4	24.9	21.2	17.8	14.2	14.2	10.6	7.1	7.1	3.5	3.5
85°	17.8	14.2	10.6	10.6	7.1	7.1	7.1	3.5	3.5	3.5	3.5
87.5°	7.1	7.1	7.1	3.5	3.5	3.5	3.5	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°	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9
2.5°	2934.2	2934.2	2941.4	2930.8	2937.9	2937.9	2944.9	2930.8	2937.9	2941.4	2948.5
5°	2920.1	2923.6	2930.8	2927.2	2930.8	2930.8	2937.9	2920.1	2934.2	2934.2	2944.9
7.5°	2905.9	2905.9	2913.0	2909.5	2916.5	2920.1	2927.2	2913.0	2927.2	2927.2	2937.9
10°	2888.1	2888.1	2898.8	2895.2	2905.9	2909.5	2920.1	2905.9	2920.1	2923.6	2934.2
12.5°	2863.4	2866.9	2877.5	2877.5	2888.1	2895.2	2905.9	2898.8	2916.5	2920.1	2934.2
15°	2835.0	2842.0	2856.2	2852.6	2863.4	2874.0	2888.1	2877.5	2902.4	2909.5	2923.6
17.5°	2799.5	2806.5	2817.2	2817.2	2827.9	2835.0	2852.6	2845.6	2866.9	2870.4	2888.1
20°	2746.2	2756.9	2771.1	2767.5	2778.1	2785.2	2799.5	2792.4	2813.6	2820.8	2838.5
22.5°	2682.4	2689.5	2700.1	2700.1	2710.8	2717.9	2732.0	2721.4	2742.8	2746.2	2760.4
25°	2597.2	2604.4	2611.4	2615.0	2625.6	2629.1	2636.2	2629.1	2646.9	2650.5	2668.1
27.5°	2487.2	2490.8	2501.4	2501.4	2508.5	2512.1	2522.8	2508.5	2533.4	2533.4	2544.0
30°	2356.0	2352.4	2366.6	2359.5	2366.6	2366.6	2377.2	2370.1	2387.9	2380.8	2391.4
32.5°	2182.1	2189.1	2189.1	2182.1	2196.2	2192.8	2192.8	2185.6	2196.2	2199.9	2206.9
35°	1979.9	1990.5	1990.5	1994.0	1997.6	1987.0	1990.5	1969.2	1987.0	1990.5	1994.0
37.5°	1759.9	1749.2	1756.4	1745.6	1763.4	1742.1	1742.1	1727.9	1742.1	1742.1	1745.6
40°	1508.0	1504.4	1511.5	1504.4	1500.9	1497.2	1490.2	1479.6	1493.8	1486.6	1497.2
42.5°	1270.2	1266.6	1266.6	1259.6	1256.0	1256.0	1248.9	1241.9	1238.2	1238.2	1256.0
45°	1025.4	1032.5	1025.4	1021.9	1029.0	1021.9	1025.4	1011.2	1018.2	1011.2	1018.2
47.5°	819.6	823.1	816.1	809.0	819.6	809.0	809.0	798.4	812.5	812.5	805.4
50°	635.1	631.6	624.5	631.6	628.0	628.0	628.0	617.4	624.5	613.9	620.9
52.5°	468.4	464.8	464.8	461.2	464.8	461.2	461.2	457.8	457.8	454.1	457.8
55°	340.6	337.1	330.0	330.0	330.0	333.5	330.0	326.4	326.4	322.9	326.4
57.5°	230.6	223.5	223.5	223.5	223.5	220.0	220.0	216.4	220.0	216.4	220.0
60°	149.0	149.0	141.9	141.9	141.9	141.9	141.9	138.4	141.9	141.9	141.9
62.5°	92.2	92.2	88.8	85.1	88.8	85.1	85.1	85.1	88.8	85.1	88.8
65°	60.4	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
67.5°	42.6	39.0	39.0	39.0	39.0	39.0	39.0	35.5	39.0	39.0	39.0
70°	28.4	28.4	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
72.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
75°	14.2	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
77.5°	10.6	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	7.1	7.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	3.5	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	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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: P252321

CATALOG NUMBER: LE_6B60D010R EC6B60709727 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9	2937.9
2.5°	2937.9	2941.4	2934.2	2937.9	2930.8	2937.9	2941.4	2948.5
5°	2930.8	2934.2	2927.2	2934.2	2927.2	2934.2	2937.9	2944.9
7.5°	2923.6	2930.8	2923.6	2930.8	2923.6	2930.8	2934.2	2941.4
10°	2923.6	2934.2	2927.2	2937.9	2927.2	2934.2	2941.4	2944.9
12.5°	2923.6	2934.2	2930.8	2937.9	2934.2	2941.4	2948.5	2955.6
15°	2916.5	2927.2	2920.1	2930.8	2927.2	2930.8	2944.9	2944.9
17.5°	2877.5	2888.1	2888.1	2895.2	2895.2	2905.9	2913.0	2920.1
20°	2827.9	2838.5	2835.0	2845.6	2845.6	2856.2	2863.4	2870.4
22.5°	2753.4	2767.5	2764.0	2774.6	2771.1	2778.1	2792.4	2788.9
25°	2657.5	2675.2	2671.8	2678.9	2675.2	2675.2	2682.4	2685.9
27.5°	2540.5	2551.1	2547.5	2554.6	2547.5	2554.6	2561.8	2565.2
30°	2387.9	2395.0	2391.4	2395.0	2391.4	2398.5	2402.1	2409.1
32.5°	2203.4	2214.0	2203.4	2210.5	2206.9	2206.9	2221.1	2214.0
35°	1983.4	1987.0	1990.5	1990.5	1983.4	1987.0	1994.0	1994.0
37.5°	1738.6	1756.4	1735.0	1745.6	1742.1	1742.1	1742.1	1752.8
40°	1483.1	1486.6	1479.6	1479.6	1479.6	1476.0	1490.2	1486.6
42.5°	1241.9	1245.4	1241.9	1231.2	1234.8	1234.8	1245.4	1231.2
45°	1007.6	1014.8	1011.2	1011.2	1004.1	1004.1	1007.6	1000.6
47.5°	798.4	805.4	794.8	798.4	791.2	798.4	794.8	801.9
50°	606.8	613.9	610.2	613.9	613.9	606.8	617.4	603.1
52.5°	454.1	457.8	454.1	450.6	447.0	447.0	454.1	450.6
55°	322.9	319.4	319.4	319.4	322.9	322.9	319.4	315.8
57.5°	216.4	216.4	212.9	212.9	216.4	209.4	212.9	209.4
60°	138.4	138.4	138.4	138.4	134.9	138.4	138.4	138.4
62.5°	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
65°	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
67.5°	35.5	39.0	39.0	39.0	35.5	35.5	35.5	35.5
70°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
72.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
75°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	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)