

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: P252304

Luminaire Tested: **LE_6B50D010R EC6B30509030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252304
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_6B50D010R EC6B30509030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5273.8 lumens
Efficiency: N/A
Efficacy: 89.7 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

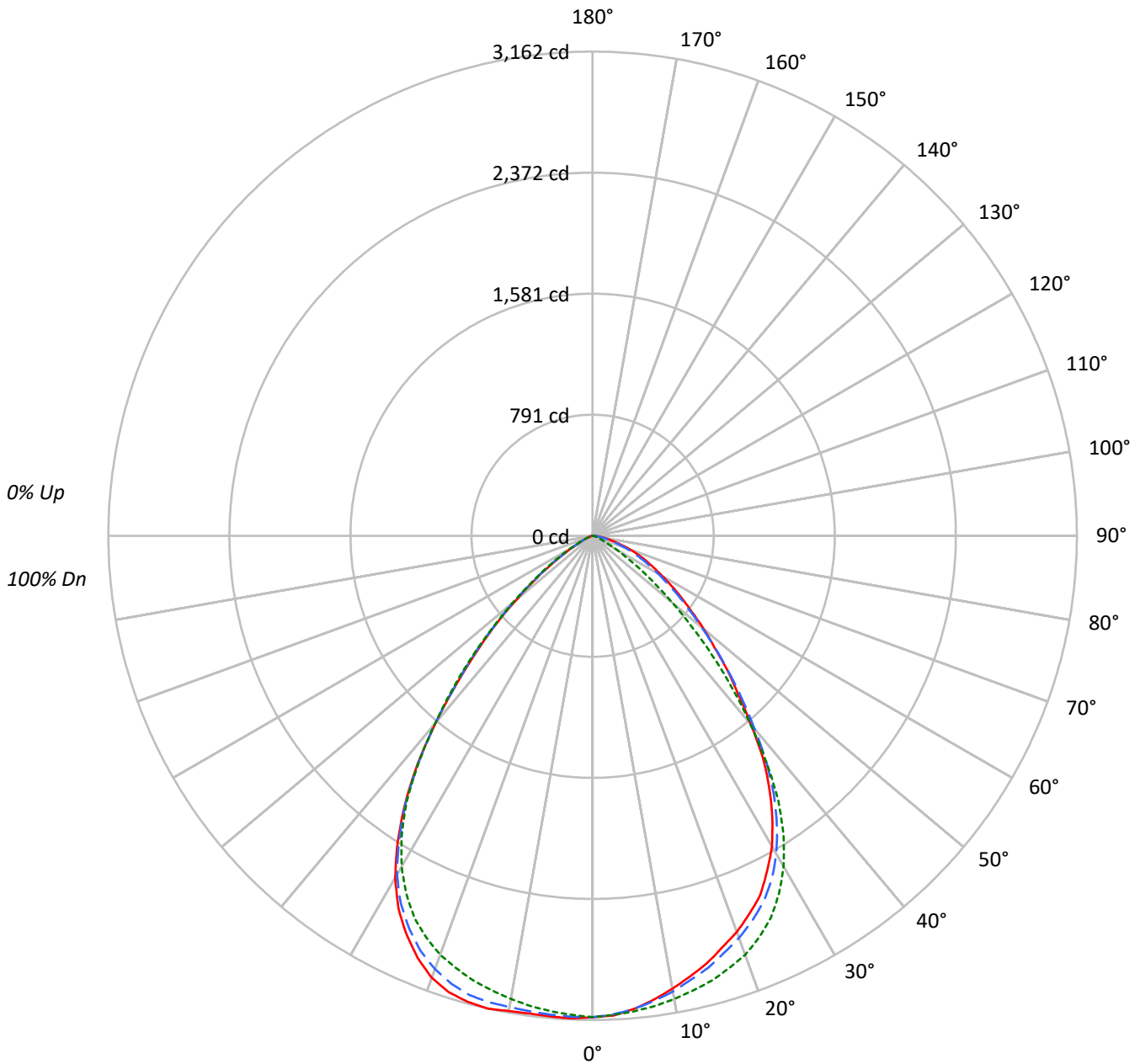
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	205084	205084	205084
5°	203136	204125	206365
10°	198940	203471	208751
15°	195136	203085	212832
20°	191100	202166	213240
25°	186384	198139	206878
30°	176461	187897	194194
35°	160252	168415	169929
40°	136767	136129	135481
45°	114887	101933	98778
50°	95955	68977	65506
55°	80758	42313	38434
60°	68359	22299	19311
65°	59202	11717	9386
70°	49233	7249	5074
75°	36349	4789	2874
80°	28516	2855	1428
85°	22756	2844	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	5.6
10°-20°	848.3	16.1
20°-30°	1252.6	23.8
30°-40°	1290.9	24.5
40°-50°	891.6	16.9
50°-60°	439.5	8.3
60°-70°	178.1	3.4
70°-80°	63.5	1.2
80°-90°	13.1	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°	2397.1	45.5
0°-40°	3688.0	69.9
0°-60°	5019.1	95.2
0°-90°	5273.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5273.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3144	3144	3144	3144	3144	
5°	3102	3102	3117	3140	3151	293
15°	2889	2920	3007	3106	3151	813
25°	2589	2638	2752	2832	2874	1184
35°	2012	2062	2115	2126	2134	1247
45°	1245	1253	1105	1090	1071	963
55°	710	683	372	349	338	641
65°	384	346	76	61	61	381
75°	144	122	19	11	11	162
85°	30	23	4	0	0	37
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°	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5
2.5°	3135.9	3124.5	3132.1	3116.9	3135.9	3116.9	3120.8	3124.5	3120.8	3124.5	3128.2
5°	3101.8	3090.4	3101.8	3082.8	3101.8	3090.4	3090.4	3094.1	3094.1	3097.9	3101.8
7.5°	3056.1	3044.8	3056.1	3037.1	3060.0	3048.6	3048.6	3056.1	3052.4	3056.1	3063.8
10°	3003.0	2987.9	2999.2	2987.9	3010.6	2995.4	3003.0	3003.0	3003.0	3014.4	3022.0
12.5°	2946.1	2930.9	2946.1	2927.1	2949.9	2938.5	2942.2	2953.6	2957.5	2965.0	2968.9
15°	2889.1	2870.1	2877.8	2866.4	2889.1	2877.8	2881.5	2896.8	2896.8	2908.1	2919.5
17.5°	2817.0	2801.8	2817.0	2801.8	2820.8	2813.1	2820.8	2832.1	2832.1	2843.5	2855.0
20°	2752.5	2737.2	2748.6	2737.2	2760.0	2748.6	2752.5	2767.6	2771.4	2782.9	2794.2
22.5°	2672.8	2661.4	2668.9	2657.5	2680.2	2672.8	2676.5	2691.8	2695.5	2703.1	2722.1
25°	2589.2	2566.4	2577.8	2570.2	2593.0	2581.6	2589.2	2604.4	2612.0	2623.4	2638.5
27.5°	2467.8	2456.4	2463.9	2463.9	2482.9	2471.5	2475.2	2490.5	2501.9	2513.2	2532.2
30°	2342.4	2323.5	2331.0	2334.9	2350.0	2342.4	2350.0	2365.2	2369.0	2384.1	2399.4
32.5°	2183.0	2175.4	2190.6	2183.0	2190.6	2190.6	2194.4	2205.8	2213.4	2220.9	2239.9
35°	2012.1	1997.0	2012.1	2004.5	2023.5	2012.1	2023.5	2034.9	2034.9	2050.1	2061.5
37.5°	1826.1	1807.1	1814.8	1814.8	1822.2	1818.5	1818.5	1837.5	1841.2	1852.6	1864.1
40°	1605.9	1598.4	1613.5	1609.8	1613.5	1613.5	1617.2	1628.6	1636.2	1640.1	1643.9
42.5°	1408.5	1412.2	1416.1	1416.1	1416.1	1416.1	1416.1	1431.2	1427.5	1438.9	1442.6
45°	1245.2	1230.0	1237.6	1233.9	1245.2	1233.9	1245.2	1256.6	1249.0	1260.4	1252.9
47.5°	1078.2	1078.2	1078.2	1074.4	1082.0	1078.2	1085.8	1089.6	1089.6	1089.6	1085.8
50°	945.4	933.9	937.8	937.8	941.5	937.8	945.4	949.1	949.1	941.5	926.4
52.5°	816.2	812.5	812.5	820.0	820.0	816.2	816.2	816.2	816.2	804.9	797.2
55°	710.0	702.4	706.1	706.1	706.1	706.1	710.0	706.1	706.1	694.8	683.4
57.5°	615.0	607.4	607.4	607.4	611.2	607.4	607.4	607.4	603.6	592.2	577.1
60°	523.9	520.1	523.9	523.9	527.8	523.9	523.9	523.9	516.4	504.9	489.8
62.5°	448.0	448.0	448.0	451.8	451.8	448.0	448.0	444.1	440.4	425.2	410.0
65°	383.5	379.6	383.5	383.5	387.2	387.2	383.5	379.6	375.9	360.6	345.5
67.5°	318.9	315.1	318.9	318.9	322.8	318.9	318.9	318.9	307.5	299.9	284.8
70°	258.1	254.4	254.4	254.4	258.1	250.6	254.4	254.4	246.8	235.4	220.2
72.5°	197.4	197.4	197.4	197.4	197.4	197.4	193.6	193.6	186.0	174.6	167.0
75°	144.2	144.2	148.0	148.0	144.2	144.2	144.2	140.5	136.6	129.1	121.5
77.5°	106.2	106.2	106.2	106.2	102.5	102.5	102.5	98.8	94.9	91.1	83.5
80°	75.9	75.9	75.9	72.1	75.9	72.1	72.1	72.1	64.5	60.8	57.0
82.5°	53.1	49.4	49.4	49.4	49.4	49.4	49.4	45.5	45.5	41.8	38.0
85°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	26.6	22.8	22.8
87.5°	15.1	19.0	19.0	19.0	19.0	19.0	19.0	15.1	15.1	15.1	11.4
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°	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5
2.5°	3128.2	3128.2	3135.9	3124.5	3143.5	3132.1	3128.2	3147.2	3135.9	3132.1	3139.6
5°	3101.8	3105.5	3109.2	3101.8	3120.8	3109.2	3109.2	3128.2	3120.8	3116.9	3128.2
7.5°	3067.5	3071.4	3079.0	3075.1	3090.4	3082.8	3086.5	3105.5	3097.9	3097.9	3109.2
10°	3025.8	3033.4	3041.0	3041.0	3060.0	3052.4	3052.4	3075.1	3067.5	3071.4	3086.5
12.5°	2976.4	2987.9	2999.2	3003.0	3022.0	3010.6	3014.4	3041.0	3037.1	3041.0	3056.1
15°	2923.2	2938.5	2949.9	2949.9	2972.6	2961.2	2972.6	2999.2	2991.6	3006.8	3025.8
17.5°	2862.5	2877.8	2892.9	2896.8	2919.5	2911.9	2927.1	2953.6	2953.6	2961.2	2984.0
20°	2805.6	2824.6	2832.1	2843.5	2866.4	2862.5	2870.1	2900.5	2900.5	2911.9	2934.6
22.5°	2729.6	2748.6	2763.9	2775.2	2794.2	2794.2	2805.6	2832.1	2832.1	2839.8	2862.5
25°	2646.1	2668.9	2680.2	2691.8	2710.6	2706.9	2718.2	2741.0	2744.9	2752.5	2775.2
27.5°	2539.9	2558.9	2574.0	2581.6	2608.1	2593.0	2604.4	2631.0	2627.1	2634.8	2653.8
30°	2407.0	2426.0	2441.1	2441.1	2463.9	2463.9	2475.2	2486.8	2486.8	2494.2	2509.5
32.5°	2251.2	2274.1	2274.1	2285.5	2300.6	2285.5	2300.6	2315.9	2308.2	2319.6	2331.0
35°	2072.9	2084.2	2088.0	2088.0	2099.5	2095.6	2091.9	2103.2	2095.6	2114.6	2126.0
37.5°	1856.5	1871.6	1864.1	1871.6	1867.9	1856.5	1856.5	1875.5	1860.2	1864.1	1875.5
40°	1647.6	1647.6	1643.9	1624.9	1628.6	1617.2	1613.5	1617.2	1602.1	1598.4	1613.5
42.5°	1431.2	1427.5	1416.1	1389.5	1393.2	1374.4	1359.1	1359.1	1351.5	1347.8	1351.5
45°	1237.6	1226.2	1207.2	1176.9	1169.4	1154.1	1123.8	1116.1	1104.8	1104.8	1108.6
47.5°	1059.2	1044.0	1013.6	979.5	960.5	941.5	911.1	899.8	880.8	873.2	880.8
50°	911.1	884.6	846.6	797.2	778.2	755.5	725.1	706.1	687.1	679.6	675.8
52.5°	774.5	736.5	698.5	637.8	622.6	599.9	558.1	539.1	520.1	504.9	504.9
55°	656.8	622.6	569.5	512.5	489.8	467.0	425.2	398.6	379.6	372.0	364.5
57.5°	550.5	512.5	463.1	402.4	379.6	356.9	315.1	288.5	269.5	258.1	250.6
60°	463.1	421.4	372.0	318.9	292.4	269.5	227.8	201.2	182.2	170.9	163.2
62.5°	379.6	345.5	296.1	246.8	224.0	201.2	167.0	140.5	121.5	113.9	102.5
65°	318.9	284.8	239.1	197.4	178.4	155.6	125.2	102.5	87.4	75.9	68.4
67.5°	258.1	231.6	193.6	155.6	136.6	121.5	94.9	75.9	60.8	53.1	49.4
70°	205.0	178.4	148.0	117.8	106.2	91.1	72.1	53.1	45.5	38.0	34.1
72.5°	151.9	132.9	110.1	87.4	75.9	68.4	49.4	41.8	30.4	26.6	22.8
75°	110.1	94.9	79.8	60.8	53.1	49.4	38.0	26.6	22.8	19.0	15.1
77.5°	75.9	68.4	53.1	41.8	38.0	34.1	26.6	19.0	15.1	11.4	11.4
80°	49.4	41.8	34.1	26.6	26.6	22.8	15.1	11.4	11.4	7.6	7.6
82.5°	30.4	26.6	22.8	19.0	15.1	15.1	11.4	7.6	7.6	3.8	3.8
85°	19.0	15.1	11.4	11.4	7.6	7.6	7.6	3.8	3.8	3.8	3.8
87.5°	7.6	7.6	7.6	3.8	3.8	3.8	3.8	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°	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5
2.5°	3139.6	3139.6	3147.2	3135.9	3143.5	3143.5	3151.1	3135.9	3143.5	3147.2	3154.9
5°	3124.5	3128.2	3135.9	3132.1	3135.9	3135.9	3143.5	3124.5	3139.6	3139.6	3151.1
7.5°	3109.2	3109.2	3116.9	3113.1	3120.8	3124.5	3132.1	3116.9	3132.1	3132.1	3143.5
10°	3090.4	3090.4	3101.8	3097.9	3109.2	3113.1	3124.5	3109.2	3124.5	3128.2	3139.6
12.5°	3063.8	3067.5	3079.0	3079.0	3090.4	3097.9	3109.2	3101.8	3120.8	3124.5	3139.6
15°	3033.4	3041.0	3056.1	3052.4	3063.8	3075.1	3090.4	3079.0	3105.5	3113.1	3128.2
17.5°	2995.4	3003.0	3014.4	3014.4	3025.8	3033.4	3052.4	3044.8	3067.5	3071.4	3090.4
20°	2938.5	2949.9	2965.0	2961.2	2972.6	2980.2	2995.4	2987.9	3010.6	3018.2	3037.1
22.5°	2870.1	2877.8	2889.1	2889.1	2900.5	2908.1	2923.2	2911.9	2934.6	2938.5	2953.6
25°	2779.0	2786.6	2794.2	2798.0	2809.4	2813.1	2820.8	2813.1	2832.1	2836.0	2855.0
27.5°	2661.4	2665.1	2676.5	2676.5	2684.1	2687.9	2699.2	2684.1	2710.6	2710.6	2722.1
30°	2520.9	2517.0	2532.2	2524.6	2532.2	2532.2	2543.6	2536.0	2555.0	2547.4	2558.9
32.5°	2334.9	2342.4	2342.4	2334.9	2350.0	2346.2	2346.2	2338.6	2350.0	2353.9	2361.4
35°	2118.4	2129.9	2129.9	2133.6	2137.4	2126.0	2129.9	2107.0	2126.0	2129.9	2133.6
37.5°	1883.0	1871.6	1879.2	1867.9	1886.9	1864.1	1864.1	1848.9	1864.1	1864.1	1867.9
40°	1613.5	1609.8	1617.2	1609.8	1605.9	1602.1	1594.5	1583.1	1598.4	1590.8	1602.1
42.5°	1359.1	1355.4	1355.4	1347.8	1344.0	1344.0	1336.4	1328.8	1325.0	1325.0	1344.0
45°	1097.1	1104.8	1097.1	1093.4	1101.0	1093.4	1097.1	1082.0	1089.6	1082.0	1089.6
47.5°	877.0	880.8	873.2	865.6	877.0	865.6	865.6	854.2	869.4	869.4	861.8
50°	679.6	675.8	668.1	675.8	672.0	672.0	672.0	660.6	668.1	656.8	664.4
52.5°	501.1	497.4	497.4	493.5	497.4	493.5	493.5	489.8	489.8	486.0	489.8
55°	364.5	360.6	353.1	353.1	353.1	356.9	353.1	349.2	349.2	345.5	349.2
57.5°	246.8	239.1	239.1	239.1	239.1	235.4	235.4	231.6	235.4	231.6	235.4
60°	159.5	159.5	151.9	151.9	151.9	151.9	151.9	148.0	151.9	151.9	151.9
62.5°	98.8	98.8	94.9	91.1	94.9	91.1	91.1	91.1	94.9	91.1	94.9
65°	64.5	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
67.5°	45.5	41.8	41.8	41.8	41.8	41.8	41.8	38.0	41.8	41.8	41.8
70°	30.4	30.4	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
72.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
75°	15.1	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
77.5°	11.4	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
80°	7.6	7.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	3.8	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	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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: P252304

CATALOG NUMBER: LE_6B50D010R EC6B30509030 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5	3143.5
2.5°	3143.5	3147.2	3139.6	3143.5	3135.9	3143.5	3147.2	3154.9
5°	3135.9	3139.6	3132.1	3139.6	3132.1	3139.6	3143.5	3151.1
7.5°	3128.2	3135.9	3128.2	3135.9	3128.2	3135.9	3139.6	3147.2
10°	3128.2	3139.6	3132.1	3143.5	3132.1	3139.6	3147.2	3151.1
12.5°	3128.2	3139.6	3135.9	3143.5	3139.6	3147.2	3154.9	3162.5
15°	3120.8	3132.1	3124.5	3135.9	3132.1	3135.9	3151.1	3151.1
17.5°	3079.0	3090.4	3090.4	3097.9	3097.9	3109.2	3116.9	3124.5
20°	3025.8	3037.1	3033.4	3044.8	3044.8	3056.1	3063.8	3071.4
22.5°	2946.1	2961.2	2957.5	2968.9	2965.0	2972.6	2987.9	2984.0
25°	2843.5	2862.5	2858.8	2866.4	2862.5	2862.5	2870.1	2873.9
27.5°	2718.2	2729.6	2725.9	2733.5	2725.9	2733.5	2741.0	2744.9
30°	2555.0	2562.6	2558.9	2562.6	2558.9	2566.4	2570.2	2577.8
32.5°	2357.6	2369.0	2357.6	2365.2	2361.4	2361.4	2376.6	2369.0
35°	2122.2	2126.0	2129.9	2129.9	2122.2	2126.0	2133.6	2133.6
37.5°	1860.2	1879.2	1856.5	1867.9	1864.1	1864.1	1864.1	1875.5
40°	1586.9	1590.8	1583.1	1583.1	1583.1	1579.4	1594.5	1590.8
42.5°	1328.8	1332.5	1328.8	1317.4	1321.1	1321.1	1332.5	1317.4
45°	1078.2	1085.8	1082.0	1082.0	1074.4	1074.4	1078.2	1070.6
47.5°	854.2	861.8	850.4	854.2	846.6	854.2	850.4	858.0
50°	649.2	656.8	653.0	656.8	656.8	649.2	660.6	645.4
52.5°	486.0	489.8	486.0	482.1	478.4	478.4	486.0	482.1
55°	345.5	341.6	341.6	341.6	345.5	345.5	341.6	337.9
57.5°	231.6	231.6	227.8	227.8	231.6	224.0	227.8	224.0
60°	148.0	148.0	148.0	148.0	144.2	148.0	148.0	148.0
62.5°	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
65°	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
67.5°	38.0	41.8	41.8	41.8	38.0	38.0	38.0	38.0
70°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
72.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
75°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	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)