

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: P252305

Luminaire Tested: **LE_6B50D010R EC6B30509035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252305
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 EC6B30509035 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5348.8 lumens
Efficiency: N/A
Efficacy: 91.0 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

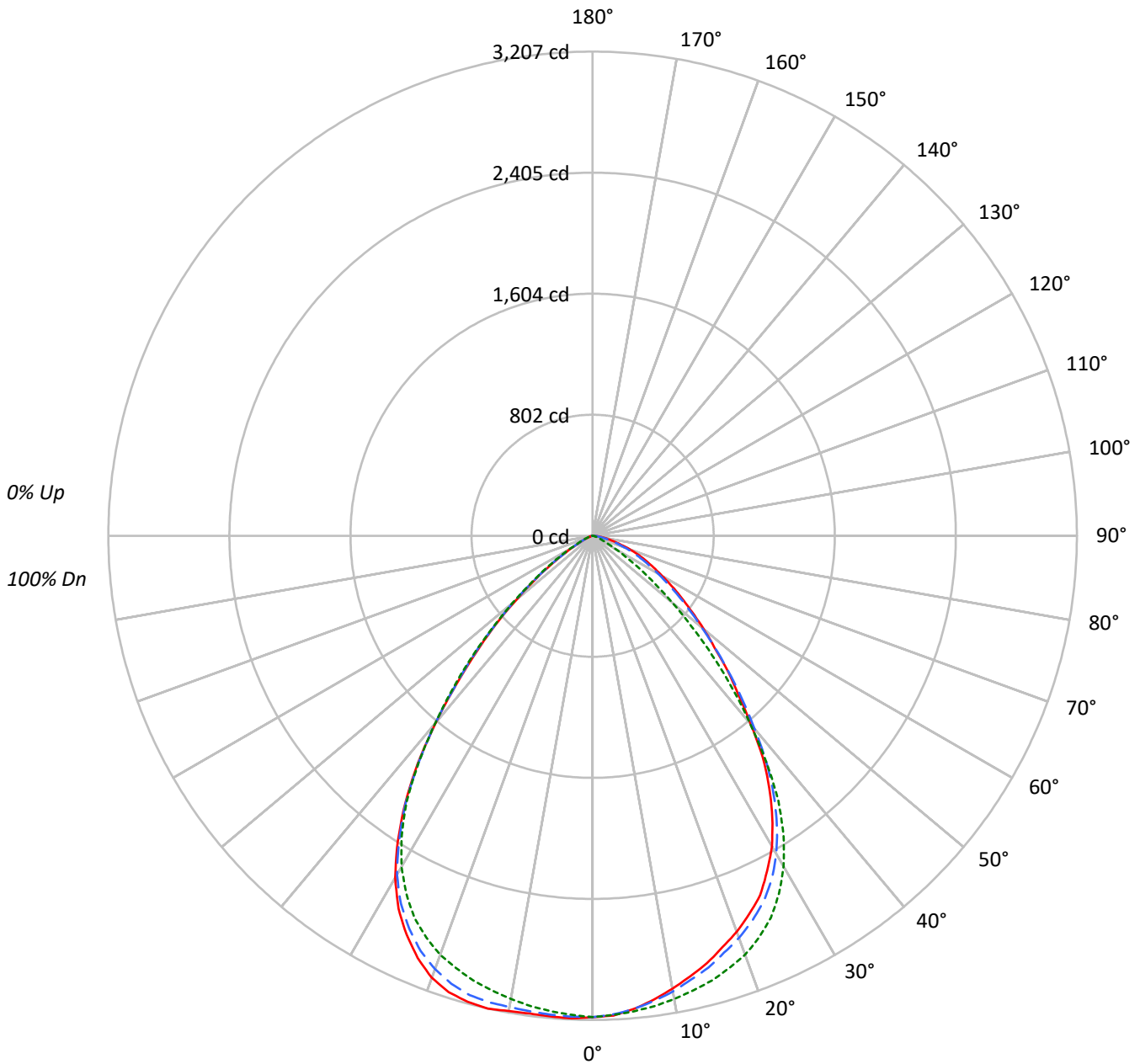
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	207994	207994	207994
5°	206024	207026	209299
10°	201775	206360	211719
15°	197912	205976	215858
20°	193814	205034	216267
25°	189033	200954	209822
30°	178977	190578	196959
35°	162538	170821	172350
40°	138718	138053	137406
45°	116530	103382	100190
50°	97315	69951	66440
55°	81895	42927	38991
60°	69338	22599	19585
65°	60035	11887	9509
70°	49958	7344	5150
75°	36903	4840	2899
80°	28929	2931	1465
85°	23055	2919	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	5.6
10°-20°	860.3	16.1
20°-30°	1270.4	23.8
30°-40°	1309.3	24.5
40°-50°	904.3	16.9
50°-60°	445.7	8.3
60°-70°	180.6	3.4
70°-80°	64.4	1.2
80°-90°	13.3	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°	2431.2	45.5
0°-40°	3740.5	69.9
0°-60°	5090.5	95.2
0°-90°	5348.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5348.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3188	3188	3188	3188	3188	
5°	3146	3146	3161	3184	3196	297
15°	2930	2961	3050	3150	3196	825
25°	2626	2676	2792	2872	2915	1201
35°	2041	2091	2145	2156	2164	1265
45°	1263	1271	1120	1105	1086	976
55°	720	693	377	354	343	651
65°	389	350	77	62	62	386
75°	146	123	19	12	12	164
85°	31	23	4	0	0	38
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°	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1
2.5°	3180.5	3168.9	3176.6	3161.2	3180.5	3161.2	3165.1	3168.9	3165.1	3168.9	3172.8
5°	3145.9	3134.2	3145.9	3126.6	3145.9	3134.2	3134.2	3138.1	3138.1	3142.0	3145.9
7.5°	3099.6	3088.1	3099.6	3080.4	3103.5	3091.9	3091.9	3099.6	3095.8	3099.6	3107.4
10°	3045.8	3030.4	3041.9	3030.4	3053.4	3038.0	3045.8	3045.8	3045.8	3057.2	3065.0
12.5°	2988.0	2972.5	2988.0	2968.8	2991.8	2980.2	2984.1	2995.6	2999.5	3007.2	3011.1
15°	2930.2	2911.0	2918.6	2907.1	2930.2	2918.6	2922.5	2937.9	2937.9	2949.5	2961.0
17.5°	2857.0	2841.6	2857.0	2841.6	2860.9	2853.2	2860.9	2872.5	2872.5	2884.0	2895.5
20°	2791.6	2776.1	2787.8	2776.1	2799.2	2787.8	2791.6	2807.0	2810.9	2822.4	2834.0
22.5°	2710.8	2699.1	2706.9	2695.4	2718.4	2710.8	2714.6	2730.0	2733.9	2741.5	2760.8
25°	2626.0	2602.9	2614.5	2606.8	2629.9	2618.4	2626.0	2641.4	2649.1	2660.6	2676.1
27.5°	2502.8	2491.2	2499.0	2499.0	2518.2	2506.6	2510.5	2525.9	2537.5	2549.0	2568.2
30°	2375.8	2356.5	2364.1	2368.0	2383.4	2375.8	2383.4	2398.9	2402.8	2418.1	2433.5
32.5°	2214.0	2206.4	2221.8	2214.0	2221.8	2221.8	2225.6	2237.1	2244.9	2252.5	2271.8
35°	2040.8	2025.4	2040.8	2033.0	2052.2	2040.8	2052.2	2063.9	2063.9	2079.2	2090.8
37.5°	1852.1	1832.9	1840.5	1840.5	1848.2	1844.4	1844.4	1863.6	1867.5	1879.0	1890.6
40°	1628.8	1621.0	1636.5	1632.6	1636.5	1636.5	1640.2	1651.9	1659.5	1663.4	1667.2
42.5°	1428.5	1432.4	1436.2	1436.2	1436.2	1436.2	1436.2	1451.6	1447.8	1459.4	1463.1
45°	1263.0	1247.5	1255.2	1251.4	1263.0	1251.4	1263.0	1274.5	1266.8	1278.4	1270.6
47.5°	1093.5	1093.5	1093.5	1089.6	1097.4	1093.5	1101.2	1105.1	1105.1	1105.1	1101.2
50°	958.8	947.2	951.1	951.1	954.9	951.1	958.8	962.6	962.6	954.9	939.5
52.5°	827.9	824.0	824.0	831.8	831.8	827.9	827.9	827.9	827.9	816.2	808.6
55°	720.0	712.4	716.1	716.1	716.1	716.1	720.0	716.1	716.1	704.6	693.1
57.5°	623.8	616.1	616.1	616.1	619.9	616.1	616.1	616.1	612.2	600.6	585.2
60°	531.4	527.5	531.4	531.4	535.2	531.4	531.4	531.4	523.6	512.1	496.8
62.5°	454.4	454.4	454.4	458.2	458.2	454.4	454.4	450.5	446.6	431.2	415.9
65°	388.9	385.0	388.9	388.9	392.8	392.8	388.9	385.0	381.2	365.8	350.4
67.5°	323.5	319.6	323.5	323.5	327.2	323.5	323.5	323.5	311.9	304.1	288.8
70°	261.9	258.0	258.0	258.0	261.9	254.1	258.0	258.0	250.2	238.8	223.4
72.5°	200.2	200.2	200.2	200.2	200.2	200.2	196.4	196.4	188.6	177.1	169.4
75°	146.4	146.4	150.1	150.1	146.4	146.4	146.4	142.5	138.6	130.9	123.2
77.5°	107.9	107.9	107.9	107.9	104.0	104.0	104.0	100.1	96.2	92.4	84.8
80°	77.0	77.0	77.0	73.1	77.0	73.1	73.1	73.1	65.5	61.6	57.8
82.5°	53.9	50.0	50.0	50.0	50.0	50.0	50.0	46.2	46.2	42.4	38.5
85°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	27.0	23.1	23.1
87.5°	15.4	19.2	19.2	19.2	19.2	19.2	19.2	15.4	15.4	15.4	11.5
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°	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1
2.5°	3172.8	3172.8	3180.5	3168.9	3188.1	3176.6	3172.8	3192.0	3180.5	3176.6	3184.4
5°	3145.9	3149.6	3153.5	3145.9	3165.1	3153.5	3153.5	3172.8	3165.1	3161.2	3172.8
7.5°	3111.1	3115.0	3122.8	3118.9	3134.2	3126.6	3130.4	3149.6	3142.0	3142.0	3153.5
10°	3068.9	3076.5	3084.2	3084.2	3103.5	3095.8	3095.8	3118.9	3111.1	3115.0	3130.4
12.5°	3018.8	3030.4	3041.9	3045.8	3065.0	3053.4	3057.2	3084.2	3080.4	3084.2	3099.6
15°	2964.9	2980.2	2991.8	2991.8	3014.9	3003.4	3014.9	3041.9	3034.1	3049.6	3068.9
17.5°	2903.2	2918.6	2934.0	2937.9	2961.0	2953.2	2968.8	2995.6	2995.6	3003.4	3026.5
20°	2845.5	2864.8	2872.5	2884.0	2907.1	2903.2	2911.0	2941.8	2941.8	2953.2	2976.4
22.5°	2768.5	2787.8	2803.1	2814.8	2834.0	2834.0	2845.5	2872.5	2872.5	2880.1	2903.2
25°	2683.8	2706.9	2718.4	2730.0	2749.2	2745.4	2756.9	2780.0	2783.9	2791.6	2814.8
27.5°	2576.0	2595.2	2610.6	2618.4	2645.2	2629.9	2641.4	2668.4	2664.5	2672.2	2691.5
30°	2441.2	2460.5	2475.9	2475.9	2499.0	2499.0	2510.5	2522.0	2522.0	2529.8	2545.1
32.5°	2283.4	2306.4	2306.4	2318.0	2333.4	2318.0	2333.4	2348.8	2341.1	2352.6	2364.1
35°	2102.4	2113.9	2117.8	2117.8	2129.2	2125.5	2121.6	2133.1	2125.5	2144.8	2156.2
37.5°	1882.9	1898.2	1890.6	1898.2	1894.4	1882.9	1882.9	1902.1	1886.8	1890.6	1902.1
40°	1671.1	1671.1	1667.2	1648.0	1651.9	1640.2	1636.5	1640.2	1624.9	1621.0	1636.5
42.5°	1451.6	1447.8	1436.2	1409.2	1413.1	1393.9	1378.5	1378.5	1370.8	1366.9	1370.8
45°	1255.2	1243.8	1224.5	1193.6	1186.0	1170.5	1139.8	1132.0	1120.5	1120.5	1124.4
47.5°	1074.2	1058.9	1028.1	993.4	974.1	954.9	924.1	912.5	893.2	885.6	893.2
50°	924.1	897.1	858.6	808.6	789.4	766.2	735.5	716.1	696.9	689.2	685.4
52.5°	785.5	747.0	708.5	646.9	631.5	608.4	566.0	546.8	527.5	512.1	512.1
55°	666.1	631.5	577.6	519.9	496.8	473.6	431.2	404.2	385.0	377.4	369.6
57.5°	558.4	519.9	469.8	408.1	385.0	362.0	319.6	292.6	273.4	261.9	254.1
60°	469.8	427.4	377.4	323.5	296.5	273.4	231.0	204.1	184.9	173.2	165.6
62.5°	385.0	350.4	300.4	250.2	227.1	204.1	169.4	142.5	123.2	115.5	104.0
65°	323.5	288.8	242.6	200.2	181.0	157.9	127.1	104.0	88.5	77.0	69.2
67.5°	261.9	234.9	196.4	157.9	138.6	123.2	96.2	77.0	61.6	53.9	50.0
70°	207.9	181.0	150.1	119.4	107.9	92.4	73.1	53.9	46.2	38.5	34.6
72.5°	154.0	134.8	111.6	88.5	77.0	69.2	50.0	42.4	30.8	27.0	23.1
75°	111.6	96.2	80.9	61.6	53.9	50.0	38.5	27.0	23.1	19.2	15.4
77.5°	77.0	69.2	53.9	42.4	38.5	34.6	27.0	19.2	15.4	11.5	11.5
80°	50.0	42.4	34.6	27.0	27.0	23.1	15.4	11.5	11.5	7.8	7.8
82.5°	30.8	27.0	23.1	19.2	15.4	15.4	11.5	7.8	7.8	3.9	3.9
85°	19.2	15.4	11.5	11.5	7.8	7.8	7.8	3.9	3.9	3.9	3.9
87.5°	7.8	7.8	7.8	3.9	3.9	3.9	3.9	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°	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1
2.5°	3184.4	3184.4	3192.0	3180.5	3188.1	3188.1	3195.9	3180.5	3188.1	3192.0	3199.8
5°	3168.9	3172.8	3180.5	3176.6	3180.5	3180.5	3188.1	3168.9	3184.4	3184.4	3195.9
7.5°	3153.5	3153.5	3161.2	3157.4	3165.1	3168.9	3176.6	3161.2	3176.6	3176.6	3188.1
10°	3134.2	3134.2	3145.9	3142.0	3153.5	3157.4	3168.9	3153.5	3168.9	3172.8	3184.4
12.5°	3107.4	3111.1	3122.8	3122.8	3134.2	3142.0	3153.5	3145.9	3165.1	3168.9	3184.4
15°	3076.5	3084.2	3099.6	3095.8	3107.4	3118.9	3134.2	3122.8	3149.6	3157.4	3172.8
17.5°	3038.0	3045.8	3057.2	3057.2	3068.9	3076.5	3095.8	3088.1	3111.1	3115.0	3134.2
20°	2980.2	2991.8	3007.2	3003.4	3014.9	3022.6	3038.0	3030.4	3053.4	3061.1	3080.4
22.5°	2911.0	2918.6	2930.2	2930.2	2941.8	2949.5	2964.9	2953.2	2976.4	2980.2	2995.6
25°	2818.5	2826.2	2834.0	2837.8	2849.4	2853.2	2860.9	2853.2	2872.5	2876.2	2895.5
27.5°	2699.1	2703.0	2714.6	2714.6	2722.2	2726.1	2737.6	2722.2	2749.2	2749.2	2760.8
30°	2556.8	2552.9	2568.2	2560.5	2568.2	2568.2	2579.8	2572.1	2591.4	2583.6	2595.2
32.5°	2368.0	2375.8	2375.8	2368.0	2383.4	2379.6	2379.6	2371.9	2383.4	2387.2	2395.0
35°	2148.5	2160.1	2160.1	2164.0	2167.8	2156.2	2160.1	2137.0	2156.2	2160.1	2164.0
37.5°	1909.9	1898.2	1906.0	1894.4	1913.6	1890.6	1890.6	1875.1	1890.6	1890.6	1894.4
40°	1636.5	1632.6	1640.2	1632.6	1628.8	1624.9	1617.2	1605.6	1621.0	1613.4	1624.9
42.5°	1378.5	1374.6	1374.6	1366.9	1363.1	1363.1	1355.4	1347.6	1343.8	1343.8	1363.1
45°	1112.8	1120.5	1112.8	1108.9	1116.6	1108.9	1112.8	1097.4	1105.1	1097.4	1105.1
47.5°	889.5	893.2	885.6	877.9	889.5	877.9	877.9	866.4	881.8	881.8	874.0
50°	689.2	685.4	677.6	685.4	681.5	681.5	681.5	670.0	677.6	666.1	673.9
52.5°	508.2	504.4	504.4	500.5	504.4	500.5	500.5	496.8	496.8	492.9	496.8
55°	369.6	365.8	358.1	358.1	358.1	362.0	358.1	354.2	354.2	350.4	354.2
57.5°	250.2	242.6	242.6	242.6	242.6	238.8	238.8	234.9	238.8	234.9	238.8
60°	161.8	161.8	154.0	154.0	154.0	154.0	154.0	150.1	154.0	154.0	154.0
62.5°	100.1	100.1	96.2	92.4	96.2	92.4	92.4	92.4	96.2	92.4	96.2
65°	65.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
67.5°	46.2	42.4	42.4	42.4	42.4	42.4	42.4	38.5	42.4	42.4	42.4
70°	30.8	30.8	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
72.5°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
75°	15.4	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
77.5°	11.5	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	7.8	7.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	3.9	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	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	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



TEST NUMBER: P252305

CATALOG NUMBER: LE_6B50D010R EC6B30509035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1
2.5°	3188.1	3192.0	3184.4	3188.1	3180.5	3188.1	3192.0	3199.8
5°	3180.5	3184.4	3176.6	3184.4	3176.6	3184.4	3188.1	3195.9
7.5°	3172.8	3180.5	3172.8	3180.5	3172.8	3180.5	3184.4	3192.0
10°	3172.8	3184.4	3176.6	3188.1	3176.6	3184.4	3192.0	3195.9
12.5°	3172.8	3184.4	3180.5	3188.1	3184.4	3192.0	3199.8	3207.4
15°	3165.1	3176.6	3168.9	3180.5	3176.6	3180.5	3195.9	3195.9
17.5°	3122.8	3134.2	3134.2	3142.0	3142.0	3153.5	3161.2	3168.9
20°	3068.9	3080.4	3076.5	3088.1	3088.1	3099.6	3107.4	3115.0
22.5°	2988.0	3003.4	2999.5	3011.1	3007.2	3014.9	3030.4	3026.5
25°	2884.0	2903.2	2899.4	2907.1	2903.2	2903.2	2911.0	2914.8
27.5°	2756.9	2768.5	2764.6	2772.4	2764.6	2772.4	2780.0	2783.9
30°	2591.4	2599.1	2595.2	2599.1	2595.2	2602.9	2606.8	2614.5
32.5°	2391.1	2402.8	2391.1	2398.9	2395.0	2395.0	2410.4	2402.8
35°	2152.4	2156.2	2160.1	2160.1	2152.4	2156.2	2164.0	2164.0
37.5°	1886.8	1906.0	1882.9	1894.4	1890.6	1890.6	1890.6	1902.1
40°	1609.5	1613.4	1605.6	1605.6	1605.6	1601.8	1617.2	1613.4
42.5°	1347.6	1351.5	1347.6	1336.1	1340.0	1340.0	1351.5	1336.1
45°	1093.5	1101.2	1097.4	1097.4	1089.6	1089.6	1093.5	1085.9
47.5°	866.4	874.0	862.5	866.4	858.6	866.4	862.5	870.2
50°	658.4	666.1	662.2	666.1	666.1	658.4	670.0	654.6
52.5°	492.9	496.8	492.9	489.0	485.1	485.1	492.9	489.0
55°	350.4	346.5	346.5	346.5	350.4	350.4	346.5	342.8
57.5°	234.9	234.9	231.0	231.0	234.9	227.1	231.0	227.1
60°	150.1	150.1	150.1	150.1	146.4	150.1	150.1	150.1
62.5°	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
65°	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
67.5°	38.5	42.4	42.4	42.4	38.5	38.5	38.5	38.5
70°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
72.5°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
75°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	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)