

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: P252307

Luminaire Tested: **LE_6B50D010R EC6B30509050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252307
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 EC6B30509050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5381.3 lumens
Efficiency: N/A
Efficacy: 91.5 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

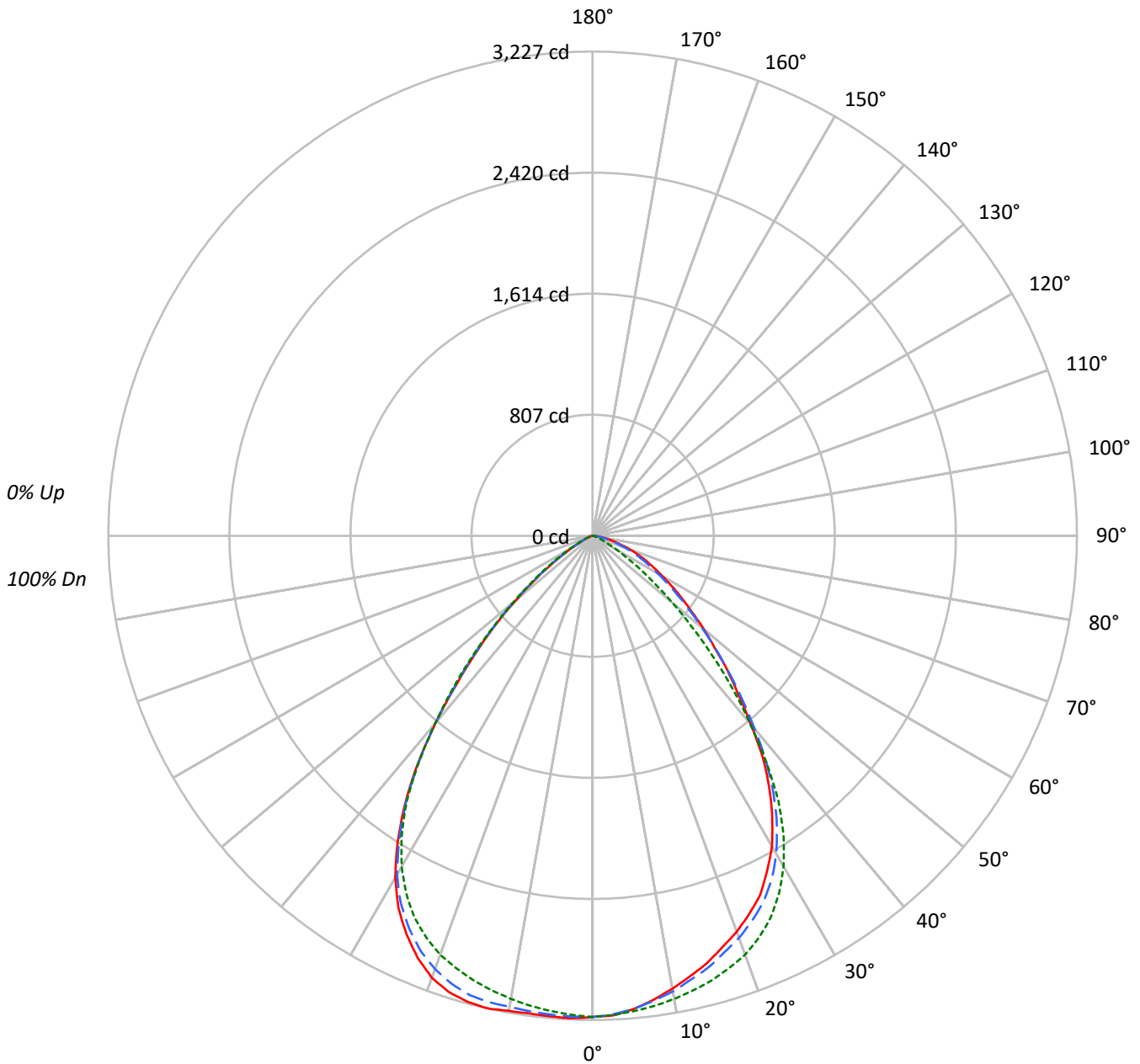
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	209259	209259	209259
5°	207275	208290	210563
10°	202994	207618	212998
15°	199114	207226	217161
20°	194987	206283	217586
25°	190185	202170	211096
30°	180054	191731	198157
35°	163517	171856	173393
40°	139552	138897	138232
45°	117231	104000	100789
50°	97903	70378	66835
55°	82396	43177	39219
60°	69755	22756	19716
65°	60391	11964	9571
70°	50244	7401	5169
75°	37105	4890	2924
80°	29117	2931	1465
85°	23205	2919	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	5.6
10°-20°	865.6	16.1
20°-30°	1278.1	23.8
30°-40°	1317.2	24.5
40°-50°	909.8	16.9
50°-60°	448.4	8.3
60°-70°	181.7	3.4
70°-80°	64.8	1.2
80°-90°	13.4	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°	2446.0	45.5
0°-40°	3763.2	69.9
0°-60°	5121.4	95.2
0°-90°	5381.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5381.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3208	3208	3208	3208	3208	
5°	3165	3165	3180	3204	3215	299
15°	2948	2979	3068	3169	3215	830
25°	2642	2692	2808	2890	2932	1208
35°	2053	2104	2158	2169	2177	1272
45°	1271	1278	1127	1112	1092	982
55°	724	697	380	356	345	655
65°	391	352	78	62	62	389
75°	147	124	19	12	12	165
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°	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5
2.5°	3199.8	3188.1	3195.9	3180.5	3199.8	3180.5	3184.4	3188.1	3184.4	3188.1	3192.0
5°	3165.0	3153.4	3165.0	3145.6	3165.0	3153.4	3153.4	3157.2	3157.2	3161.1	3165.0
7.5°	3118.5	3106.9	3118.5	3099.1	3122.4	3110.8	3110.8	3118.5	3114.6	3118.5	3126.2
10°	3064.2	3048.8	3060.4	3048.8	3072.0	3056.5	3064.2	3064.2	3064.2	3075.9	3083.6
12.5°	3006.1	2990.6	3006.1	2986.8	3010.0	2998.4	3002.2	3013.9	3017.8	3025.5	3029.4
15°	2948.0	2928.6	2936.4	2924.8	2948.0	2936.4	2940.2	2955.8	2955.8	2967.4	2979.0
17.5°	2874.4	2858.9	2874.4	2858.9	2878.2	2870.5	2878.2	2889.9	2889.9	2901.5	2913.1
20°	2808.5	2793.0	2804.6	2793.0	2816.2	2804.6	2808.5	2824.0	2827.9	2839.5	2851.1
22.5°	2727.2	2715.6	2723.4	2711.8	2735.0	2727.2	2731.1	2746.6	2750.5	2758.2	2777.5
25°	2642.0	2618.8	2630.4	2622.6	2645.9	2634.2	2642.0	2657.5	2665.2	2676.9	2692.4
27.5°	2518.0	2506.4	2514.1	2514.1	2533.5	2521.9	2525.8	2541.2	2552.9	2564.5	2583.9
30°	2390.1	2370.8	2378.5	2382.4	2397.9	2390.1	2397.9	2413.4	2417.2	2432.8	2448.2
32.5°	2227.5	2219.8	2235.2	2227.5	2235.2	2235.2	2239.1	2250.8	2258.5	2266.2	2285.6
35°	2053.1	2037.6	2053.1	2045.4	2064.8	2053.1	2064.8	2076.4	2076.4	2091.9	2103.5
37.5°	1863.4	1844.0	1851.8	1851.8	1859.5	1855.6	1855.6	1875.0	1878.9	1890.5	1902.1
40°	1638.6	1630.9	1646.4	1642.5	1646.4	1646.4	1650.2	1661.9	1669.6	1673.5	1677.4
42.5°	1437.2	1441.1	1445.0	1445.0	1445.0	1445.0	1445.0	1460.5	1456.6	1468.2	1472.1
45°	1270.6	1255.1	1262.9	1259.0	1270.6	1259.0	1270.6	1282.2	1274.5	1286.1	1278.4
47.5°	1100.1	1100.1	1100.1	1096.2	1104.0	1100.1	1107.9	1111.8	1111.8	1111.8	1107.9
50°	964.6	953.0	956.9	956.9	960.8	956.9	964.6	968.5	968.5	960.8	945.2
52.5°	832.9	829.0	829.0	836.8	836.8	832.9	832.9	832.9	832.9	821.2	813.5
55°	724.4	716.6	720.5	720.5	720.5	720.5	724.4	720.5	720.5	708.9	697.2
57.5°	627.6	619.9	619.9	619.9	623.8	619.9	619.9	619.9	616.0	604.4	588.9
60°	534.6	530.8	534.6	534.6	538.5	534.6	534.6	534.6	526.9	515.2	499.8
62.5°	457.1	457.1	457.1	461.0	461.0	457.1	457.1	453.2	449.4	433.9	418.4
65°	391.2	387.4	391.2	391.2	395.1	395.1	391.2	387.4	383.5	368.0	352.5
67.5°	325.4	321.5	325.4	325.4	329.2	325.4	325.4	325.4	313.8	306.0	290.5
70°	263.4	259.5	259.5	259.5	263.4	255.6	259.5	259.5	251.8	240.1	224.6
72.5°	201.5	201.5	201.5	201.5	201.5	201.5	197.6	197.6	189.9	178.2	170.5
75°	147.2	147.2	151.1	151.1	147.2	147.2	147.2	143.4	139.5	131.8	124.0
77.5°	108.5	108.5	108.5	108.5	104.6	104.6	104.6	100.8	96.9	93.0	85.2
80°	77.5	77.5	77.5	73.6	77.5	73.6	73.6	73.6	65.9	62.0	58.1
82.5°	54.2	50.4	50.4	50.4	50.4	50.4	50.4	46.5	46.5	42.6	38.8
85°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	27.1	23.2	23.2
87.5°	15.5	19.4	19.4	19.4	19.4	19.4	19.4	15.5	15.5	15.5	11.6
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°	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5
2.5°	3192.0	3192.0	3199.8	3188.1	3207.5	3195.9	3192.0	3211.4	3199.8	3195.9	3203.6
5°	3165.0	3168.9	3172.8	3165.0	3184.4	3172.8	3172.8	3192.0	3184.4	3180.5	3192.0
7.5°	3130.1	3134.0	3141.8	3137.9	3153.4	3145.6	3149.5	3168.9	3161.1	3161.1	3172.8
10°	3087.5	3095.2	3103.0	3103.0	3122.4	3114.6	3114.6	3137.9	3130.1	3134.0	3149.5
12.5°	3037.1	3048.8	3060.4	3064.2	3083.6	3072.0	3075.9	3103.0	3099.1	3103.0	3118.5
15°	2982.9	2998.4	3010.0	3010.0	3033.2	3021.6	3033.2	3060.4	3052.6	3068.1	3087.5
17.5°	2920.9	2936.4	2951.9	2955.8	2979.0	2971.2	2986.8	3013.9	3013.9	3021.6	3044.9
20°	2862.8	2882.1	2889.9	2901.5	2924.8	2920.9	2928.6	2959.6	2959.6	2971.2	2994.5
22.5°	2785.2	2804.6	2820.1	2831.8	2851.1	2851.1	2862.8	2889.9	2889.9	2897.6	2920.9
25°	2700.1	2723.4	2735.0	2746.6	2765.9	2762.0	2773.6	2796.9	2800.8	2808.5	2831.8
27.5°	2591.6	2611.0	2626.5	2634.2	2661.4	2645.9	2657.5	2684.6	2680.8	2688.5	2707.9
30°	2456.0	2475.4	2490.9	2490.9	2514.1	2514.1	2525.8	2537.4	2537.4	2545.1	2560.6
32.5°	2297.2	2320.5	2320.5	2332.1	2347.5	2332.1	2347.5	2363.0	2355.2	2366.9	2378.5
35°	2115.1	2126.8	2130.6	2130.6	2142.2	2138.4	2134.5	2146.1	2138.4	2157.8	2169.4
37.5°	1894.4	1909.9	1902.1	1909.9	1906.0	1894.4	1894.4	1913.6	1898.2	1902.1	1913.6
40°	1681.2	1681.2	1677.4	1658.0	1661.9	1650.2	1646.4	1650.2	1634.8	1630.9	1646.4
42.5°	1460.5	1456.6	1445.0	1417.9	1421.8	1402.4	1386.9	1386.9	1379.1	1375.2	1379.1
45°	1262.9	1251.2	1231.9	1200.9	1193.1	1177.6	1146.6	1138.9	1127.2	1127.2	1131.1
47.5°	1080.8	1065.2	1034.4	999.5	980.1	960.8	929.8	918.1	898.8	891.0	898.8
50°	929.8	902.6	863.9	813.5	794.1	770.9	739.9	720.5	701.1	693.4	689.5
52.5°	790.2	751.5	712.8	650.8	635.4	612.1	569.5	550.1	530.8	515.2	515.2
55°	670.1	635.4	581.1	523.0	499.8	476.5	433.9	406.8	387.4	379.6	371.9
57.5°	561.8	523.0	472.6	410.6	387.4	364.1	321.5	294.4	275.0	263.4	255.6
60°	472.6	430.0	379.6	325.4	298.2	275.0	232.4	205.4	186.0	174.4	166.6
62.5°	387.4	352.5	302.1	251.8	228.5	205.4	170.5	143.4	124.0	116.2	104.6
65°	325.4	290.5	244.0	201.5	182.1	158.9	127.9	104.6	89.1	77.5	69.8
67.5°	263.4	236.2	197.6	158.9	139.5	124.0	96.9	77.5	62.0	54.2	50.4
70°	209.2	182.1	151.1	120.1	108.5	93.0	73.6	54.2	46.5	38.8	34.9
72.5°	155.0	135.6	112.4	89.1	77.5	69.8	50.4	42.6	31.0	27.1	23.2
75°	112.4	96.9	81.4	62.0	54.2	50.4	38.8	27.1	23.2	19.4	15.5
77.5°	77.5	69.8	54.2	42.6	38.8	34.9	27.1	19.4	15.5	11.6	11.6
80°	50.4	42.6	34.9	27.1	27.1	23.2	15.5	11.6	11.6	7.8	7.8
82.5°	31.0	27.1	23.2	19.4	15.5	15.5	11.6	7.8	7.8	3.9	3.9
85°	19.4	15.5	11.6	11.6	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°	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5
2.5°	3203.6	3203.6	3211.4	3199.8	3207.5	3207.5	3215.2	3199.8	3207.5	3211.4	3219.1
5°	3188.1	3192.0	3199.8	3195.9	3199.8	3199.8	3207.5	3188.1	3203.6	3203.6	3215.2
7.5°	3172.8	3172.8	3180.5	3176.6	3184.4	3188.1	3195.9	3180.5	3195.9	3195.9	3207.5
10°	3153.4	3153.4	3165.0	3161.1	3172.8	3176.6	3188.1	3172.8	3188.1	3192.0	3203.6
12.5°	3126.2	3130.1	3141.8	3141.8	3153.4	3161.1	3172.8	3165.0	3184.4	3188.1	3203.6
15°	3095.2	3103.0	3118.5	3114.6	3126.2	3137.9	3153.4	3141.8	3168.9	3176.6	3192.0
17.5°	3056.5	3064.2	3075.9	3075.9	3087.5	3095.2	3114.6	3106.9	3130.1	3134.0	3153.4
20°	2998.4	3010.0	3025.5	3021.6	3033.2	3041.0	3056.5	3048.8	3072.0	3079.8	3099.1
22.5°	2928.6	2936.4	2948.0	2948.0	2959.6	2967.4	2982.9	2971.2	2994.5	2998.4	3013.9
25°	2835.6	2843.4	2851.1	2855.0	2866.6	2870.5	2878.2	2870.5	2889.9	2893.8	2913.1
27.5°	2715.6	2719.5	2731.1	2731.1	2738.9	2742.8	2754.4	2738.9	2765.9	2765.9	2777.5
30°	2572.2	2568.4	2583.9	2576.1	2583.9	2583.9	2595.5	2587.8	2607.1	2599.4	2611.0
32.5°	2382.4	2390.1	2390.1	2382.4	2397.9	2394.0	2394.0	2386.2	2397.9	2401.8	2409.5
35°	2161.6	2173.2	2173.2	2177.1	2181.0	2169.4	2173.2	2150.0	2169.4	2173.2	2177.1
37.5°	1921.4	1909.9	1917.5	1906.0	1925.2	1902.1	1902.1	1886.6	1902.1	1902.1	1906.0
40°	1646.4	1642.5	1650.2	1642.5	1638.6	1634.8	1627.0	1615.4	1630.9	1623.1	1634.8
42.5°	1386.9	1383.0	1383.0	1375.2	1371.4	1371.4	1363.6	1355.9	1352.0	1352.0	1371.4
45°	1119.5	1127.2	1119.5	1115.6	1123.4	1115.6	1119.5	1104.0	1111.8	1104.0	1111.8
47.5°	894.9	898.8	891.0	883.2	894.9	883.2	883.2	871.6	887.1	887.1	879.4
50°	693.4	689.5	681.8	689.5	685.6	685.6	685.6	674.0	681.8	670.1	677.9
52.5°	511.4	507.5	507.5	503.6	507.5	503.6	503.6	499.8	499.8	495.9	499.8
55°	371.9	368.0	360.2	360.2	360.2	364.1	360.2	356.4	356.4	352.5	356.4
57.5°	251.8	244.0	244.0	244.0	244.0	240.1	240.1	236.2	240.1	236.2	240.1
60°	162.8	162.8	155.0	155.0	155.0	155.0	155.0	151.1	155.0	155.0	155.0
62.5°	100.8	100.8	96.9	93.0	96.9	93.0	93.0	93.0	96.9	93.0	96.9
65°	65.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
67.5°	46.5	42.6	42.6	42.6	42.6	42.6	42.6	38.8	42.6	42.6	42.6
70°	31.0	31.0	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
72.5°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
75°	15.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
77.5°	11.6	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: P252307

CATALOG NUMBER: LE_6B50D010R EC6B30509050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5	3207.5
2.5°	3207.5	3211.4	3203.6	3207.5	3199.8	3207.5	3211.4	3219.1
5°	3199.8	3203.6	3195.9	3203.6	3195.9	3203.6	3207.5	3215.2
7.5°	3192.0	3199.8	3192.0	3199.8	3192.0	3199.8	3203.6	3211.4
10°	3192.0	3203.6	3195.9	3207.5	3195.9	3203.6	3211.4	3215.2
12.5°	3192.0	3203.6	3199.8	3207.5	3203.6	3211.4	3219.1	3226.9
15°	3184.4	3195.9	3188.1	3199.8	3195.9	3199.8	3215.2	3215.2
17.5°	3141.8	3153.4	3153.4	3161.1	3161.1	3172.8	3180.5	3188.1
20°	3087.5	3099.1	3095.2	3106.9	3106.9	3118.5	3126.2	3134.0
22.5°	3006.1	3021.6	3017.8	3029.4	3025.5	3033.2	3048.8	3044.9
25°	2901.5	2920.9	2917.0	2924.8	2920.9	2920.9	2928.6	2932.5
27.5°	2773.6	2785.2	2781.4	2789.1	2781.4	2789.1	2796.9	2800.8
30°	2607.1	2614.9	2611.0	2614.9	2611.0	2618.8	2622.6	2630.4
32.5°	2405.6	2417.2	2405.6	2413.4	2409.5	2409.5	2425.0	2417.2
35°	2165.5	2169.4	2173.2	2173.2	2165.5	2169.4	2177.1	2177.1
37.5°	1898.2	1917.5	1894.4	1906.0	1902.1	1902.1	1902.1	1913.6
40°	1619.2	1623.1	1615.4	1615.4	1615.4	1611.5	1627.0	1623.1
42.5°	1355.9	1359.8	1355.9	1344.2	1348.1	1348.1	1359.8	1344.2
45°	1100.1	1107.9	1104.0	1104.0	1096.2	1096.2	1100.1	1092.4
47.5°	871.6	879.4	867.8	871.6	863.9	871.6	867.8	875.5
50°	662.4	670.1	666.2	670.1	670.1	662.4	674.0	658.5
52.5°	495.9	499.8	495.9	492.0	488.1	488.1	495.9	492.0
55°	352.5	348.6	348.6	348.6	352.5	352.5	348.6	344.8
57.5°	236.2	236.2	232.4	232.4	236.2	228.5	232.4	228.5
60°	151.1	151.1	151.1	151.1	147.2	151.1	151.1	151.1
62.5°	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
65°	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
67.5°	38.8	42.6	42.6	42.6	38.8	38.8	38.8	38.8
70°	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
72.5°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
75°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
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)