

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: P212840

Luminaire Tested: **LE_6B50D010R EC6B30509024 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30509024 6LBSWLI1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

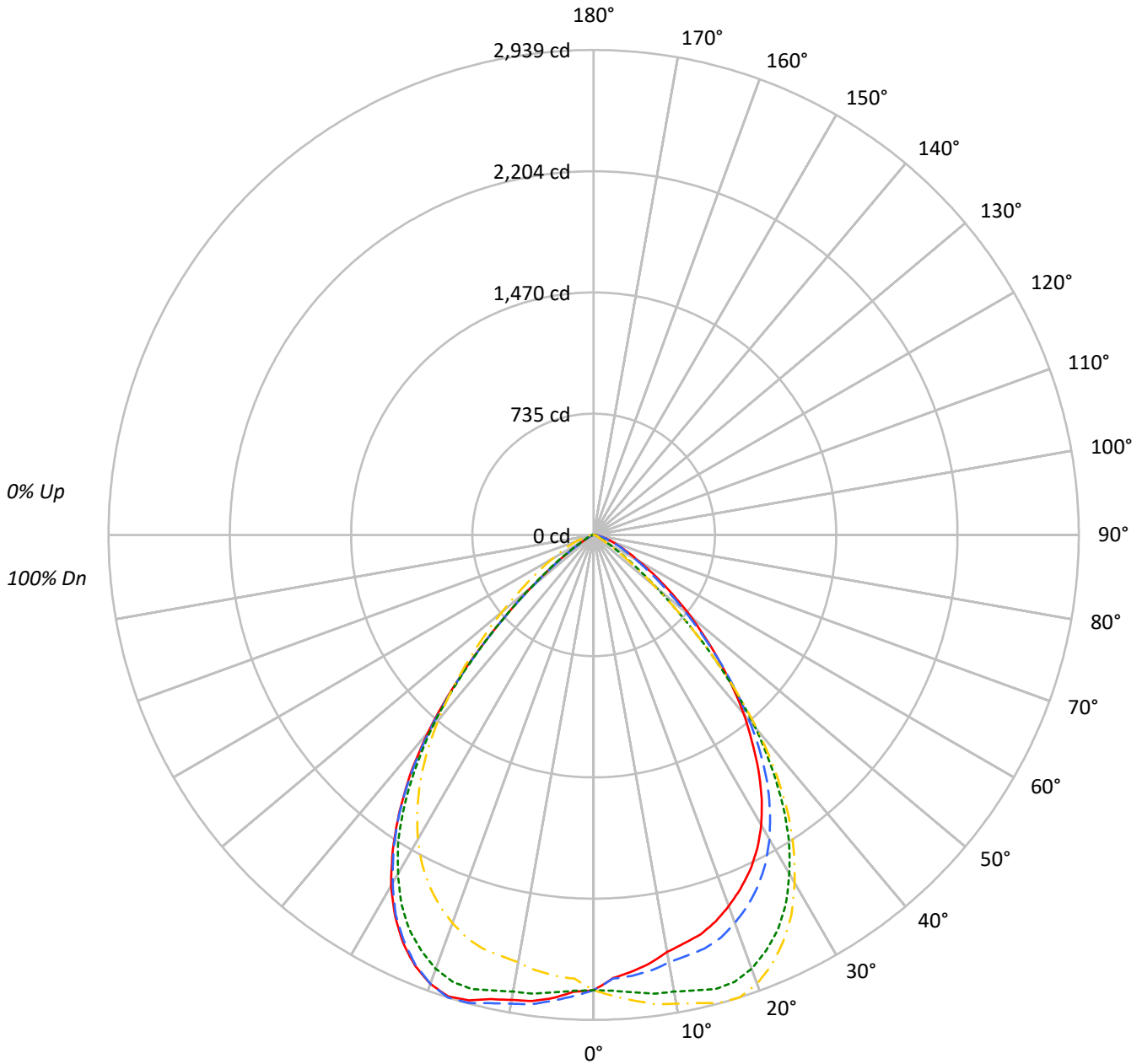
Lumens per Lamp: N/A
Luminaire Lumens: 4613.2 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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					
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								
1	112	109	106	103	110	107	104	102	103	100	99	99	97	96	95	94	93	91								
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82								
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73								
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66								
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60								
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54								
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49								
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45								
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42								
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	151260	151260	151260	151260
5°	146186	153081	155024	153081
10°	142866	156454	159316	156454
15°	142197	161698	165716	161698
20°	139604	163219	168837	163219
25°	135619	159711	165155	159711
30°	128507	150061	155347	150061
35°	116513	133712	137366	133712
40°	101147	108961	111716	108961
45°	82923	75209	75706	75209
50°	65200	42182	41363	42182
55°	48189	20874	18733	20874
60°	34164	9155	6688	9155
65°	25424	5837	4164	5837
70°	18529	4632	3077	4632
75°	13598	3389	2033	3389
80°	9124	3031	1010	3031
85°	6038	2013	2013	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	5.7
10°-20°	782.3	17.0
20°-30°	1167.5	25.3
30°-40°	1199.5	26.0
40°-50°	776.8	16.8
50°-60°	288.8	6.3
60°-70°	94.8	2.1
70°-80°	33.4	0.7
80°-90°	6.0	0.1
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°	2214.0	48.0
0°-40°	3413.5	74.0
0°-60°	4479.0	97.1
0°-90°	4613.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4613.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2759	2759	2759	2759	2759	
5°	2656	2782	2817	2782	2656	251
15°	2506	2849	2920	2849	2506	705
25°	2242	2640	2730	2640	2242	1028
35°	1741	1998	2053	1998	1741	1081
45°	1070	970	976	970	1070	827
55°	504	218	196	218	504	460
65°	196	45	32	45	196	199
75°	64	16	10	16	64	71
85°	10	3	3	3	10	13
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°	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2
2.5°	2688.6	2727.1	2701.4	2717.5	2691.8	2691.8	2743.1	2714.2	2736.8	2714.2	2691.8
5°	2656.5	2704.6	2672.5	2688.6	2666.1	2669.2	2717.5	2695.0	2717.5	2701.4	2682.1
7.5°	2617.9	2666.1	2637.1	2653.2	2630.8	2637.1	2688.6	2666.1	2691.8	2675.8	2662.9
10°	2566.5	2617.9	2592.2	2608.2	2589.0	2592.2	2643.6	2627.5	2650.0	2640.4	2630.8
12.5°	2534.4	2582.6	2553.6	2569.8	2556.9	2563.2	2611.5	2598.6	2627.5	2617.9	2611.5
15°	2505.5	2550.5	2524.8	2540.9	2531.1	2534.4	2585.8	2573.0	2605.1	2598.6	2595.4
17.5°	2457.2	2505.5	2476.6	2495.9	2486.2	2489.4	2540.9	2531.1	2563.2	2563.2	2560.1
20°	2393.0	2441.2	2418.8	2431.6	2425.1	2431.6	2476.6	2470.1	2502.2	2502.2	2502.2
22.5°	2322.4	2370.6	2344.9	2357.8	2351.2	2361.0	2402.8	2402.8	2428.4	2431.6	2434.9
25°	2242.1	2290.2	2264.6	2280.6	2274.2	2280.6	2319.1	2322.4	2344.9	2344.9	2351.2
27.5°	2145.8	2193.9	2168.2	2181.0	2177.9	2181.0	2222.9	2229.2	2242.1	2245.2	2251.8
30°	2030.1	2075.0	2049.4	2062.2	2062.2	2062.2	2104.0	2107.1	2120.0	2123.2	2129.6
32.5°	1895.1	1933.8	1914.5	1927.2	1924.1	1930.5	1959.4	1972.2	1988.4	1985.1	1988.4
35°	1741.0	1782.8	1763.5	1773.1	1776.4	1786.0	1805.2	1821.2	1824.5	1827.8	1834.1
37.5°	1574.0	1615.8	1596.5	1606.1	1609.2	1628.6	1635.0	1651.0	1657.5	1657.5	1657.5
40°	1413.4	1432.6	1416.6	1426.2	1429.4	1445.5	1451.9	1464.8	1471.1	1468.0	1464.8
42.5°	1239.9	1256.0	1239.9	1249.5	1249.5	1262.4	1265.6	1281.6	1281.6	1275.2	1265.6
45°	1069.6	1085.8	1069.6	1076.1	1076.1	1088.9	1088.9	1088.9	1095.4	1085.8	1069.6
47.5°	909.0	925.1	909.0	915.5	912.2	921.9	918.6	921.9	912.2	905.9	886.5
50°	764.5	770.9	764.5	761.2	764.5	770.9	767.8	767.8	754.9	745.2	722.8
52.5°	623.1	632.8	623.1	623.1	623.1	629.6	629.6	626.4	613.5	600.6	578.2
55°	504.2	510.8	507.5	504.2	504.2	510.8	504.2	504.2	491.5	481.9	459.4
57.5°	401.5	404.8	401.5	401.5	401.5	404.8	404.8	398.2	388.6	379.0	363.0
60°	311.6	314.8	314.8	311.6	311.6	318.0	318.0	314.8	305.1	298.8	282.6
62.5°	247.4	247.4	247.4	247.4	247.4	250.5	250.5	250.5	244.1	237.8	224.9
65°	196.0	199.1	196.0	196.0	199.1	202.4	199.1	202.4	196.0	192.8	183.1
67.5°	151.0	154.1	151.0	154.1	154.1	157.4	154.1	157.4	151.0	147.8	141.4
70°	115.6	115.6	115.6	115.6	115.6	118.9	115.6	118.9	115.6	112.4	106.0
72.5°	86.8	86.8	90.0	90.0	86.8	90.0	86.8	86.8	86.8	83.5	80.2
75°	64.2	64.2	67.5	64.2	64.2	64.2	64.2	64.2	61.0	61.0	57.9
77.5°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	41.8	41.8	38.5
80°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	25.8	25.8
82.5°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	16.0	16.0
85°	9.6	9.6	9.6	12.9	9.6	9.6	9.6	9.6	9.6	9.6	9.6
87.5°	3.2	3.2	3.2	6.4	3.2	3.2	6.4	6.4	3.2	3.2	3.2
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°	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2
2.5°	2717.5	2727.1	2727.1	2717.5	2740.0	2720.8	2759.2	2723.9	2733.5	2765.6	2762.5
5°	2707.9	2720.8	2723.9	2717.5	2746.4	2730.4	2768.9	2733.5	2749.6	2781.8	2781.8
7.5°	2695.0	2711.1	2717.5	2723.9	2749.6	2733.5	2778.5	2743.1	2765.6	2804.2	2801.0
10°	2666.1	2688.6	2701.4	2711.1	2736.8	2727.1	2775.2	2746.4	2765.6	2810.6	2807.4
12.5°	2650.0	2675.8	2695.0	2711.1	2740.0	2733.5	2781.8	2756.0	2781.8	2826.8	2826.8
15°	2637.1	2666.1	2688.6	2717.5	2746.4	2740.0	2791.4	2768.9	2794.6	2849.1	2846.0
17.5°	2605.1	2640.4	2662.9	2695.0	2723.9	2720.8	2775.2	2759.2	2788.1	2839.5	2842.8
20°	2550.5	2582.6	2608.2	2646.9	2679.0	2672.5	2730.4	2714.2	2743.1	2797.8	2801.0
22.5°	2479.8	2511.9	2537.6	2579.4	2608.2	2605.1	2662.9	2646.9	2675.8	2727.1	2730.4
25°	2396.2	2425.1	2450.9	2489.4	2521.5	2521.5	2573.0	2556.9	2589.0	2640.4	2640.4
27.5°	2293.5	2319.1	2341.6	2386.6	2412.4	2412.4	2460.5	2444.5	2476.6	2521.5	2518.4
30°	2168.2	2190.8	2210.0	2248.5	2271.0	2274.2	2316.0	2299.9	2332.0	2370.6	2370.6
32.5°	2017.2	2039.8	2052.6	2100.8	2116.9	2113.6	2145.8	2129.6	2161.8	2203.5	2193.9
35°	1856.6	1866.2	1875.9	1924.1	1930.5	1917.6	1949.8	1933.8	1956.2	1998.0	1991.5
37.5°	1673.5	1676.8	1676.8	1718.5	1721.8	1712.1	1731.4	1712.1	1728.1	1766.8	1763.5
40°	1471.1	1468.0	1464.8	1496.9	1493.6	1474.4	1487.2	1471.1	1493.6	1522.6	1506.5
42.5°	1265.6	1256.0	1243.1	1259.1	1246.4	1230.2	1236.6	1211.0	1227.0	1249.5	1230.2
45°	1063.2	1044.0	1018.2	1021.5	1005.4	986.1	976.5	950.8	947.6	970.1	954.0
47.5°	873.8	835.1	812.6	799.9	774.1	758.1	738.8	709.9	697.0	709.9	693.9
50°	703.5	664.9	636.0	607.1	581.4	562.1	530.0	510.8	491.5	494.6	481.9
52.5°	555.8	530.0	481.9	459.4	433.6	411.1	382.2	359.8	337.2	337.2	324.4
55°	440.1	404.8	372.6	340.5	314.8	295.5	266.6	244.1	221.6	218.4	205.6
57.5°	340.5	314.8	279.5	247.4	231.2	212.0	183.1	157.4	144.5	134.9	125.2
60°	263.4	237.8	208.8	183.1	163.9	151.0	122.0	102.8	90.0	83.5	73.9
62.5°	212.0	189.5	163.9	138.1	125.2	112.4	90.0	73.9	61.0	54.6	48.1
65°	170.2	151.0	131.8	112.4	102.8	90.0	73.9	61.0	51.4	45.0	38.5
67.5°	131.8	118.9	102.8	90.0	80.2	70.6	57.9	48.1	41.8	35.4	32.1
70°	99.6	90.0	80.2	67.5	61.0	54.6	45.0	35.4	32.1	28.9	25.8
72.5°	77.1	67.5	57.9	51.4	45.0	41.8	35.4	28.9	25.8	22.5	19.2
75°	51.4	48.1	41.8	35.4	32.1	28.9	25.8	22.5	19.2	16.0	16.0
77.5°	35.4	32.1	28.9	25.8	22.5	22.5	19.2	16.0	12.9	12.9	9.6
80°	22.5	19.2	19.2	16.0	16.0	16.0	12.9	9.6	9.6	9.6	6.4
82.5°	16.0	12.9	12.9	9.6	9.6	9.6	9.6	6.4	6.4	6.4	3.2
85°	9.6	6.4	6.4	6.4	6.4	6.4	6.4	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	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°	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2
2.5°	2736.8	2765.6	2765.6	2791.4	2794.6	2788.1	2759.2	2759.2	2797.8	2820.2	2781.8
5°	2762.5	2791.4	2791.4	2817.1	2829.9	2820.2	2791.4	2794.6	2833.1	2858.9	2820.2
7.5°	2785.0	2813.9	2820.2	2849.1	2858.9	2849.1	2820.2	2826.8	2868.5	2891.0	2852.4
10°	2794.6	2823.5	2826.8	2858.9	2871.6	2858.9	2836.4	2839.5	2884.5	2900.6	2865.2
12.5°	2817.1	2846.0	2846.0	2881.2	2894.1	2884.5	2855.6	2862.0	2907.0	2923.1	2887.8
15°	2839.5	2868.5	2868.5	2907.0	2923.1	2910.2	2887.8	2891.0	2935.9	2952.0	2923.1
17.5°	2839.5	2865.2	2865.2	2907.0	2923.1	2913.4	2887.8	2891.0	2939.1	2952.0	2923.1
20°	2797.8	2826.8	2820.2	2862.0	2878.1	2868.5	2846.0	2846.0	2894.1	2907.0	2878.1
22.5°	2730.4	2756.0	2749.6	2788.1	2807.4	2794.6	2775.2	2772.1	2820.2	2833.1	2804.2
25°	2637.1	2662.9	2656.5	2695.0	2714.2	2698.2	2675.8	2679.0	2717.5	2736.8	2711.1
27.5°	2528.0	2544.0	2534.4	2573.0	2592.2	2576.1	2553.6	2556.9	2595.4	2608.2	2589.0
30°	2380.2	2393.0	2383.4	2415.5	2428.4	2418.8	2399.5	2399.5	2434.9	2450.9	2431.6
32.5°	2203.5	2213.1	2203.5	2229.2	2254.9	2235.6	2216.4	2216.4	2254.9	2267.8	2245.2
35°	1998.0	2007.6	2001.1	2026.9	2046.1	2020.5	2004.4	1998.0	2049.4	2042.9	2030.1
37.5°	1769.9	1776.4	1757.0	1802.0	1811.6	1782.8	1769.9	1763.5	1808.5	1805.2	1792.4
40°	1512.9	1519.4	1506.5	1538.6	1541.9	1519.4	1509.8	1500.1	1545.0	1541.9	1532.2
42.5°	1239.9	1243.1	1227.0	1252.8	1259.1	1236.6	1233.5	1220.6	1262.4	1256.0	1252.8
45°	957.2	957.2	944.4	963.6	970.1	950.8	944.4	941.1	970.1	970.1	963.6
47.5°	693.9	684.2	668.1	697.0	700.2	687.4	684.2	674.5	703.5	703.5	697.0
50°	475.4	472.2	469.0	475.4	478.6	462.5	472.2	462.5	478.6	478.6	478.6
52.5°	318.0	314.8	308.4	314.8	314.8	305.1	305.1	302.0	314.8	314.8	308.4
55°	199.1	196.0	192.8	196.0	196.0	186.2	192.8	186.2	192.8	192.8	189.5
57.5°	122.0	115.6	115.6	112.4	112.4	106.0	109.2	109.2	109.2	109.2	109.2
60°	70.6	67.5	64.2	64.2	64.2	61.0	61.0	61.0	61.0	61.0	61.0
62.5°	45.0	45.0	41.8	41.8	41.8	41.8	41.8	38.5	41.8	41.8	41.8
65°	38.5	35.4	35.4	35.4	35.4	32.1	32.1	32.1	32.1	32.1	32.1
67.5°	32.1	28.9	28.9	28.9	28.9	25.8	25.8	25.8	25.8	25.8	25.8
70°	25.8	22.5	22.5	22.5	22.5	22.5	19.2	22.5	22.5	19.2	19.2
72.5°	19.2	19.2	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
75°	12.9	12.9	12.9	12.9	12.9	9.6	9.6	9.6	9.6	9.6	9.6
77.5°	9.6	9.6	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
80°	6.4	6.4	6.4	6.4	6.4	3.2	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	3.2	3.2	3.2	3.2	3.2	0.0	3.2	0.0	3.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212840

CATALOG NUMBER: LE_6B50D010R EC6B30509024 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2
2.5°	2826.8	2794.6	2778.5	2810.6	2823.5	2807.4	2794.6	2772.1	2794.6	2807.4	2823.5
5°	2865.2	2836.4	2823.5	2846.0	2865.2	2849.1	2839.5	2817.1	2839.5	2849.1	2865.2
7.5°	2900.6	2871.6	2855.6	2878.1	2900.6	2878.1	2868.5	2849.1	2868.5	2878.1	2900.6
10°	2913.4	2881.2	2868.5	2887.8	2910.2	2887.8	2874.9	2862.0	2874.9	2887.8	2910.2
12.5°	2935.9	2903.8	2887.8	2903.8	2926.2	2903.8	2891.0	2881.2	2891.0	2903.8	2926.2
15°	2968.0	2939.1	2919.9	2935.9	2964.9	2939.1	2923.1	2919.9	2923.1	2939.1	2964.9
17.5°	2968.0	2945.5	2926.2	2939.1	2968.0	2948.8	2926.2	2932.8	2926.2	2948.8	2968.0
20°	2926.2	2903.8	2887.8	2887.8	2929.5	2903.8	2884.5	2894.1	2884.5	2903.8	2929.5
22.5°	2852.4	2833.1	2817.1	2813.9	2855.6	2833.1	2807.4	2826.8	2807.4	2833.1	2855.6
25°	2756.0	2736.8	2723.9	2717.5	2759.2	2733.5	2711.1	2730.4	2711.1	2733.5	2759.2
27.5°	2630.8	2614.8	2601.9	2592.2	2630.8	2608.2	2585.8	2605.1	2585.8	2608.2	2630.8
30°	2470.1	2460.5	2447.6	2434.9	2473.4	2450.9	2428.4	2454.1	2428.4	2450.9	2473.4
32.5°	2283.9	2277.4	2261.4	2248.5	2287.0	2261.4	2245.2	2264.6	2245.2	2261.4	2287.0
35°	2068.6	2059.0	2049.4	2026.9	2068.6	2046.1	2046.1	2052.6	2046.1	2046.1	2068.6
37.5°	1827.8	1821.2	1808.5	1789.1	1824.5	1808.5	1802.0	1821.2	1802.0	1808.5	1824.5
40°	1557.9	1554.6	1545.0	1522.6	1561.1	1545.0	1535.4	1561.1	1535.4	1545.0	1561.1
42.5°	1275.2	1268.8	1259.1	1256.0	1275.2	1262.4	1272.0	1272.0	1272.0	1262.4	1275.2
45°	982.9	976.5	970.1	957.2	979.8	973.2	970.1	976.5	970.1	973.2	979.8
47.5°	713.1	706.6	700.2	690.6	713.1	703.5	703.5	709.9	703.5	703.5	713.1
50°	478.6	481.9	478.6	472.2	478.6	475.4	478.6	485.0	478.6	475.4	478.6
52.5°	318.0	318.0	311.6	308.4	314.8	311.6	321.2	314.8	321.2	311.6	314.8
55°	192.8	196.0	192.8	189.5	192.8	189.5	199.1	196.0	199.1	189.5	192.8
57.5°	109.2	109.2	112.4	109.2	115.6	112.4	112.4	112.4	112.4	112.4	115.6
60°	61.0	61.0	61.0	61.0	61.0	61.0	64.2	61.0	64.2	61.0	61.0
62.5°	41.8	41.8	41.8	38.5	41.8	38.5	41.8	41.8	41.8	38.5	41.8
65°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
67.5°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
70°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
72.5°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
75°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
77.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212840

CATALOG NUMBER: LE_6B50D010R EC6B30509024 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2
2.5°	2810.6	2778.5	2794.6	2826.8	2781.8	2820.2	2797.8	2759.2	2759.2	2788.1	2794.6
5°	2846.0	2823.5	2836.4	2865.2	2820.2	2858.9	2833.1	2794.6	2791.4	2820.2	2829.9
7.5°	2878.1	2855.6	2871.6	2900.6	2852.4	2891.0	2868.5	2826.8	2820.2	2849.1	2858.9
10°	2887.8	2868.5	2881.2	2913.4	2865.2	2900.6	2884.5	2839.5	2836.4	2858.9	2871.6
12.5°	2903.8	2887.8	2903.8	2935.9	2887.8	2923.1	2907.0	2862.0	2855.6	2884.5	2894.1
15°	2935.9	2919.9	2939.1	2968.0	2923.1	2952.0	2935.9	2891.0	2887.8	2910.2	2923.1
17.5°	2939.1	2926.2	2945.5	2968.0	2923.1	2952.0	2939.1	2891.0	2887.8	2913.4	2923.1
20°	2887.8	2887.8	2903.8	2926.2	2878.1	2907.0	2894.1	2846.0	2846.0	2868.5	2878.1
22.5°	2813.9	2817.1	2833.1	2852.4	2804.2	2833.1	2820.2	2772.1	2775.2	2794.6	2807.4
25°	2717.5	2723.9	2736.8	2756.0	2711.1	2736.8	2717.5	2679.0	2675.8	2698.2	2714.2
27.5°	2592.2	2601.9	2614.8	2630.8	2589.0	2608.2	2595.4	2556.9	2553.6	2576.1	2592.2
30°	2434.9	2447.6	2460.5	2470.1	2431.6	2450.9	2434.9	2399.5	2399.5	2418.8	2428.4
32.5°	2248.5	2261.4	2277.4	2283.9	2245.2	2267.8	2254.9	2216.4	2216.4	2235.6	2254.9
35°	2026.9	2049.4	2059.0	2068.6	2030.1	2042.9	2049.4	1998.0	2004.4	2020.5	2046.1
37.5°	1789.1	1808.5	1821.2	1827.8	1792.4	1805.2	1808.5	1763.5	1769.9	1782.8	1811.6
40°	1522.6	1545.0	1554.6	1557.9	1532.2	1541.9	1545.0	1500.1	1509.8	1519.4	1541.9
42.5°	1256.0	1259.1	1268.8	1275.2	1252.8	1256.0	1262.4	1220.6	1233.5	1236.6	1259.1
45°	957.2	970.1	976.5	982.9	963.6	970.1	970.1	941.1	944.4	950.8	970.1
47.5°	690.6	700.2	706.6	713.1	697.0	703.5	703.5	674.5	684.2	687.4	700.2
50°	472.2	478.6	481.9	478.6	478.6	478.6	478.6	462.5	472.2	462.5	478.6
52.5°	308.4	311.6	318.0	318.0	308.4	314.8	314.8	302.0	305.1	305.1	314.8
55°	189.5	192.8	196.0	192.8	189.5	192.8	192.8	186.2	192.8	186.2	196.0
57.5°	109.2	112.4	109.2	109.2	109.2	109.2	109.2	109.2	109.2	106.0	112.4
60°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	64.2
62.5°	38.5	41.8	41.8	41.8	41.8	41.8	41.8	38.5	41.8	41.8	41.8
65°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	35.4
67.5°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	28.9
70°	19.2	19.2	19.2	19.2	19.2	19.2	22.5	22.5	19.2	22.5	22.5
72.5°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
75°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	12.9
77.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.4
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	3.2	0.0	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212840

CATALOG NUMBER: LE_6B50D010R EC6B30509024 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2
2.5°	2791.4	2765.6	2765.6	2736.8	2762.5	2765.6	2733.5	2723.9	2759.2	2720.8	2740.0
5°	2817.1	2791.4	2791.4	2762.5	2781.8	2781.8	2749.6	2733.5	2768.9	2730.4	2746.4
7.5°	2849.1	2820.2	2813.9	2785.0	2801.0	2804.2	2765.6	2743.1	2778.5	2733.5	2749.6
10°	2858.9	2826.8	2823.5	2794.6	2807.4	2810.6	2765.6	2746.4	2775.2	2727.1	2736.8
12.5°	2881.2	2846.0	2846.0	2817.1	2826.8	2826.8	2781.8	2756.0	2781.8	2733.5	2740.0
15°	2907.0	2868.5	2868.5	2839.5	2846.0	2849.1	2794.6	2768.9	2791.4	2740.0	2746.4
17.5°	2907.0	2865.2	2865.2	2839.5	2842.8	2839.5	2788.1	2759.2	2775.2	2720.8	2723.9
20°	2862.0	2820.2	2826.8	2797.8	2801.0	2797.8	2743.1	2714.2	2730.4	2672.5	2679.0
22.5°	2788.1	2749.6	2756.0	2730.4	2730.4	2727.1	2675.8	2646.9	2662.9	2605.1	2608.2
25°	2695.0	2656.5	2662.9	2637.1	2640.4	2640.4	2589.0	2556.9	2573.0	2521.5	2521.5
27.5°	2573.0	2534.4	2544.0	2528.0	2518.4	2521.5	2476.6	2444.5	2460.5	2412.4	2412.4
30°	2415.5	2383.4	2393.0	2380.2	2370.6	2370.6	2332.0	2299.9	2316.0	2274.2	2271.0
32.5°	2229.2	2203.5	2213.1	2203.5	2193.9	2203.5	2161.8	2129.6	2145.8	2113.6	2116.9
35°	2026.9	2001.1	2007.6	1998.0	1991.5	1998.0	1956.2	1933.8	1949.8	1917.6	1930.5
37.5°	1802.0	1757.0	1776.4	1769.9	1763.5	1766.8	1728.1	1712.1	1731.4	1712.1	1721.8
40°	1538.6	1506.5	1519.4	1512.9	1506.5	1522.6	1493.6	1471.1	1487.2	1474.4	1493.6
42.5°	1252.8	1227.0	1243.1	1239.9	1230.2	1249.5	1227.0	1211.0	1236.6	1230.2	1246.4
45°	963.6	944.4	957.2	957.2	954.0	970.1	947.6	950.8	976.5	986.1	1005.4
47.5°	697.0	668.1	684.2	693.9	693.9	709.9	697.0	709.9	738.8	758.1	774.1
50°	475.4	469.0	472.2	475.4	481.9	494.6	491.5	510.8	530.0	562.1	581.4
52.5°	314.8	308.4	314.8	318.0	324.4	337.2	337.2	359.8	382.2	411.1	433.6
55°	196.0	192.8	196.0	199.1	205.6	218.4	221.6	244.1	266.6	295.5	314.8
57.5°	112.4	115.6	115.6	122.0	125.2	134.9	144.5	157.4	183.1	212.0	231.2
60°	64.2	64.2	67.5	70.6	73.9	83.5	90.0	102.8	122.0	151.0	163.9
62.5°	41.8	41.8	45.0	45.0	48.1	54.6	61.0	73.9	90.0	112.4	125.2
65°	35.4	35.4	35.4	38.5	38.5	45.0	51.4	61.0	73.9	90.0	102.8
67.5°	28.9	28.9	28.9	32.1	32.1	35.4	41.8	48.1	57.9	70.6	80.2
70°	22.5	22.5	22.5	25.8	25.8	28.9	32.1	35.4	45.0	54.6	61.0
72.5°	16.0	16.0	19.2	19.2	19.2	22.5	25.8	28.9	35.4	41.8	45.0
75°	12.9	12.9	12.9	12.9	16.0	16.0	19.2	22.5	25.8	28.9	32.1
77.5°	6.4	6.4	9.6	9.6	9.6	12.9	12.9	16.0	19.2	22.5	22.5
80°	6.4	6.4	6.4	6.4	6.4	9.6	9.6	9.6	12.9	16.0	16.0
82.5°	3.2	3.2	3.2	3.2	3.2	6.4	6.4	6.4	9.6	9.6	9.6
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.4	6.4	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2
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: P212840

CATALOG NUMBER: LE_6B50D010R EC6B30509024 6LBSWL11

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2	2759.2
2.5°	2717.5	2727.1	2727.1	2717.5	2691.8	2714.2	2736.8	2714.2	2743.1	2691.8	2691.8
5°	2717.5	2723.9	2720.8	2707.9	2682.1	2701.4	2717.5	2695.0	2717.5	2669.2	2666.1
7.5°	2723.9	2717.5	2711.1	2695.0	2662.9	2675.8	2691.8	2666.1	2688.6	2637.1	2630.8
10°	2711.1	2701.4	2688.6	2666.1	2630.8	2640.4	2650.0	2627.5	2643.6	2592.2	2589.0
12.5°	2711.1	2695.0	2675.8	2650.0	2611.5	2617.9	2627.5	2598.6	2611.5	2563.2	2556.9
15°	2717.5	2688.6	2666.1	2637.1	2595.4	2598.6	2605.1	2573.0	2585.8	2534.4	2531.1
17.5°	2695.0	2662.9	2640.4	2605.1	2560.1	2563.2	2563.2	2531.1	2540.9	2489.4	2486.2
20°	2646.9	2608.2	2582.6	2550.5	2502.2	2502.2	2502.2	2470.1	2476.6	2431.6	2425.1
22.5°	2579.4	2537.6	2511.9	2479.8	2434.9	2431.6	2428.4	2402.8	2402.8	2361.0	2351.2
25°	2489.4	2450.9	2425.1	2396.2	2351.2	2344.9	2344.9	2322.4	2319.1	2280.6	2274.2
27.5°	2386.6	2341.6	2319.1	2293.5	2251.8	2245.2	2242.1	2229.2	2222.9	2181.0	2177.9
30°	2248.5	2210.0	2190.8	2168.2	2129.6	2123.2	2120.0	2107.1	2104.0	2062.2	2062.2
32.5°	2100.8	2052.6	2039.8	2017.2	1988.4	1985.1	1988.4	1972.2	1959.4	1930.5	1924.1
35°	1924.1	1875.9	1866.2	1856.6	1834.1	1827.8	1824.5	1821.2	1805.2	1786.0	1776.4
37.5°	1718.5	1676.8	1676.8	1673.5	1657.5	1657.5	1657.5	1651.0	1635.0	1628.6	1609.2
40°	1496.9	1464.8	1468.0	1471.1	1464.8	1468.0	1471.1	1464.8	1451.9	1445.5	1429.4
42.5°	1259.1	1243.1	1256.0	1265.6	1265.6	1275.2	1281.6	1281.6	1265.6	1262.4	1249.5
45°	1021.5	1018.2	1044.0	1063.2	1069.6	1085.8	1095.4	1088.9	1088.9	1088.9	1076.1
47.5°	799.9	812.6	835.1	873.8	886.5	905.9	912.2	921.9	918.6	921.9	912.2
50°	607.1	636.0	664.9	703.5	722.8	745.2	754.9	767.8	767.8	770.9	764.5
52.5°	459.4	481.9	530.0	555.8	578.2	600.6	613.5	626.4	629.6	629.6	623.1
55°	340.5	372.6	404.8	440.1	459.4	481.9	491.5	504.2	504.2	510.8	504.2
57.5°	247.4	279.5	314.8	340.5	363.0	379.0	388.6	398.2	404.8	404.8	401.5
60°	183.1	208.8	237.8	263.4	282.6	298.8	305.1	314.8	318.0	318.0	311.6
62.5°	138.1	163.9	189.5	212.0	224.9	237.8	244.1	250.5	250.5	250.5	247.4
65°	112.4	131.8	151.0	170.2	183.1	192.8	196.0	202.4	199.1	202.4	199.1
67.5°	90.0	102.8	118.9	131.8	141.4	147.8	151.0	157.4	154.1	157.4	154.1
70°	67.5	80.2	90.0	99.6	106.0	112.4	115.6	118.9	115.6	118.9	115.6
72.5°	51.4	57.9	67.5	77.1	80.2	83.5	86.8	86.8	86.8	90.0	86.8
75°	35.4	41.8	48.1	51.4	57.9	61.0	61.0	64.2	64.2	64.2	64.2
77.5°	25.8	28.9	32.1	35.4	38.5	41.8	41.8	45.0	45.0	45.0	45.0
80°	16.0	19.2	19.2	22.5	25.8	25.8	28.9	28.9	28.9	28.9	28.9
82.5°	9.6	12.9	12.9	16.0	16.0	16.0	19.2	19.2	19.2	19.2	19.2
85°	6.4	6.4	6.4	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.4	6.4	3.2	3.2
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: P212840

CATALOG NUMBER: LE_6B50D010R EC6B30509024 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2759.2	2759.2	2759.2	2759.2
2.5°	2717.5	2701.4	2727.1	2688.6
5°	2688.6	2672.5	2704.6	2656.5
7.5°	2653.2	2637.1	2666.1	2617.9
10°	2608.2	2592.2	2617.9	2566.5
12.5°	2569.8	2553.6	2582.6	2534.4
15°	2540.9	2524.8	2550.5	2505.5
17.5°	2495.9	2476.6	2505.5	2457.2
20°	2431.6	2418.8	2441.2	2393.0
22.5°	2357.8	2344.9	2370.6	2322.4
25°	2280.6	2264.6	2290.2	2242.1
27.5°	2181.0	2168.2	2193.9	2145.8
30°	2062.2	2049.4	2075.0	2030.1
32.5°	1927.2	1914.5	1933.8	1895.1
35°	1773.1	1763.5	1782.8	1741.0
37.5°	1606.1	1596.5	1615.8	1574.0
40°	1426.2	1416.6	1432.6	1413.4
42.5°	1249.5	1239.9	1256.0	1239.9
45°	1076.1	1069.6	1085.8	1069.6
47.5°	915.5	909.0	925.1	909.0
50°	761.2	764.5	770.9	764.5
52.5°	623.1	623.1	632.8	623.1
55°	504.2	507.5	510.8	504.2
57.5°	401.5	401.5	404.8	401.5
60°	311.6	314.8	314.8	311.6
62.5°	247.4	247.4	247.4	247.4
65°	196.0	196.0	199.1	196.0
67.5°	154.1	151.0	154.1	151.0
70°	115.6	115.6	115.6	115.6
72.5°	90.0	90.0	86.8	86.8
75°	64.2	67.5	64.2	64.2
77.5°	45.0	45.0	45.0	45.0
80°	28.9	28.9	28.9	28.9
82.5°	19.2	19.2	19.2	19.2
85°	12.9	9.6	9.6	9.6
87.5°	6.4	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°





















(END OF REPORT)