

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: P252402

Luminaire Tested: **LE_6B50D010R EC6B30508030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30508030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6041.3 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

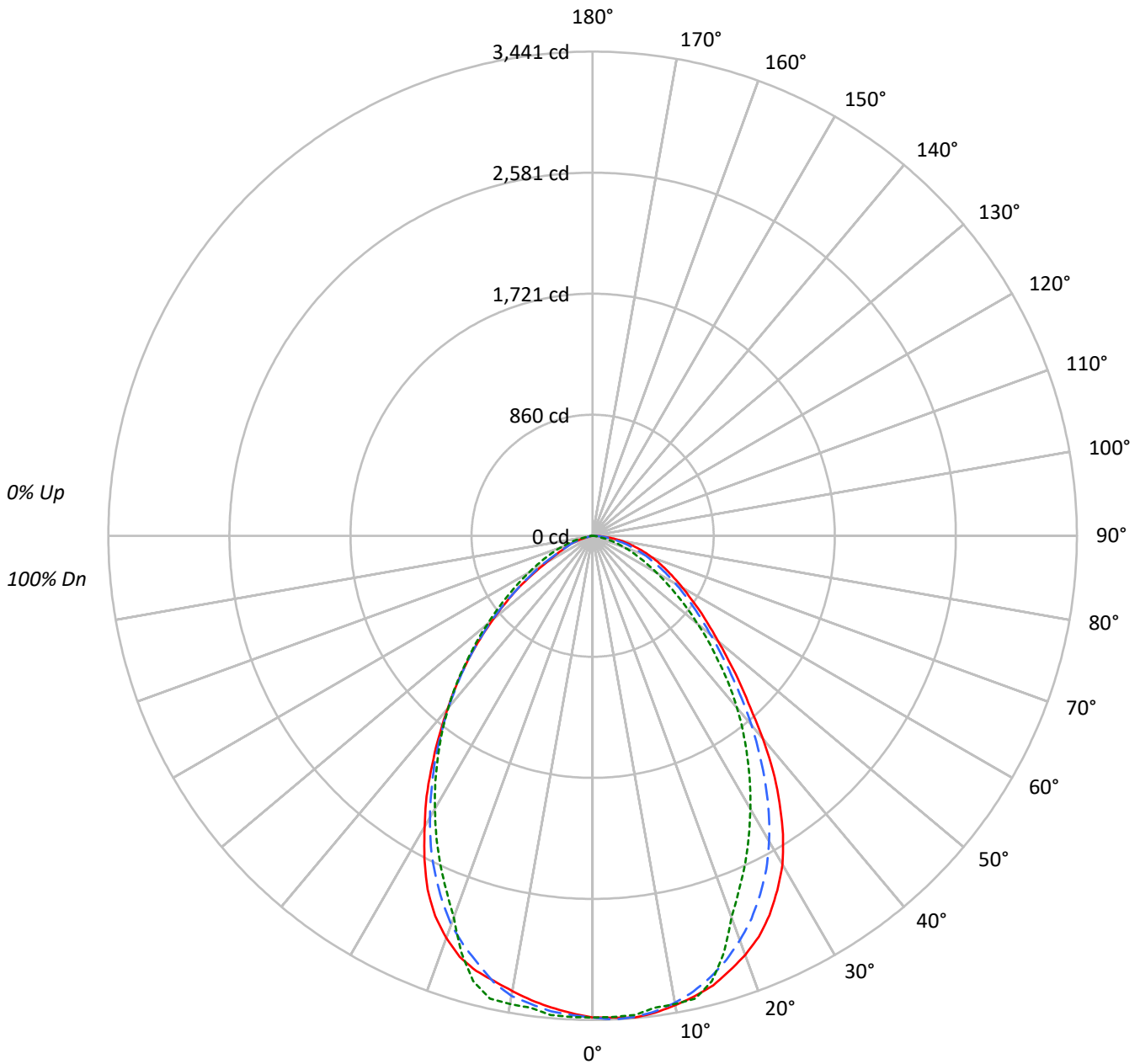
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	223319	223319	223319
5°	225049	223884	220386
10°	224412	223822	217635
15°	223395	221295	216189
20°	220058	200306	211116
25°	214084	184642	199687
30°	203280	168784	179836
35°	184464	152598	158261
40°	160154	135916	136299
45°	136588	116899	115662
50°	118223	98807	93397
55°	105679	82419	72318
60°	96295	68450	48722
65°	89907	56269	36370
70°	85647	45780	30520
75°	80688	32492	10083
80°	76832	16719	3344
85°	63253	10031	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.2	5.4
10°-20°	904.1	15.0
20°-30°	1247.9	20.7
30°-40°	1269.9	21.0
40°-50°	1020.6	16.9
50°-60°	678.6	11.2
60°-70°	386.7	6.4
70°-80°	173.7	2.9
80°-90°	36.6	0.6
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°	2475.2	41.0
0°-40°	3745.1	62.0
0°-60°	5444.3	90.1
0°-90°	6041.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6041.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3423	3423	3423	3423	3423	
5°	3436	3432	3419	3392	3365	326
15°	3308	3245	3276	3147	3201	931
25°	2974	2814	2565	2650	2774	1363
35°	2316	2138	1916	1952	1987	1439
45°	1480	1391	1267	1254	1254	1148
55°	929	867	725	645	636	835
65°	582	520	364	236	236	580
75°	320	267	129	53	40	342
85°	84	58	13	4	0	100
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°	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0
2.5°	3427.5	3445.2	3440.8	3436.4	3440.8	3436.4	3427.5	3427.5	3418.6	3418.6	3440.8
5°	3436.4	3445.2	3440.8	3436.4	3436.4	3440.8	3423.0	3423.0	3414.1	3409.6	3431.9
7.5°	3418.6	3431.9	3423.0	3423.0	3418.6	3423.0	3405.2	3405.2	3391.9	3387.5	3409.6
10°	3387.5	3405.2	3396.4	3396.4	3396.4	3387.5	3378.6	3374.1	3360.8	3356.4	3369.6
12.5°	3351.9	3365.2	3360.8	3351.9	3351.9	3351.9	3334.1	3329.6	3311.9	3303.0	3316.4
15°	3307.5	3316.4	3311.9	3307.5	3298.5	3298.5	3280.8	3271.9	3254.1	3236.2	3245.2
17.5°	3240.8	3254.1	3245.2	3240.8	3227.4	3227.4	3209.6	3200.8	3174.1	3156.2	3160.8
20°	3169.6	3174.1	3169.6	3160.8	3147.4	3143.0	3125.1	3107.4	3085.1	3063.0	3058.5
22.5°	3085.1	3089.6	3076.2	3067.4	3054.0	3049.6	3027.4	3014.0	2978.5	2951.8	2947.4
25°	2974.0	2978.5	2978.5	2956.2	2947.4	2938.5	2916.2	2894.0	2862.9	2827.4	2814.0
27.5°	2840.6	2854.0	2845.1	2822.9	2805.1	2800.6	2778.4	2760.6	2720.6	2689.5	2671.8
30°	2698.4	2694.0	2689.5	2676.1	2649.5	2645.1	2622.9	2600.6	2569.5	2529.5	2507.2
32.5°	2516.1	2516.1	2511.8	2498.4	2471.8	2462.8	2445.0	2418.4	2382.8	2351.6	2329.4
35°	2316.1	2320.5	2316.1	2289.4	2271.6	2262.8	2253.9	2222.8	2191.6	2156.0	2138.2
37.5°	2107.1	2093.9	2098.2	2076.0	2053.9	2062.8	2036.0	2022.8	1987.1	1960.5	1942.6
40°	1880.5	1889.4	1871.5	1862.6	1849.4	1836.0	1836.0	1813.8	1796.0	1764.9	1756.0
42.5°	1658.1	1671.5	1667.0	1658.1	1640.4	1644.9	1622.6	1613.8	1591.5	1578.1	1564.8
45°	1480.4	1480.4	1480.4	1471.5	1467.0	1458.1	1444.8	1431.5	1418.1	1400.4	1391.4
47.5°	1307.0	1307.0	1311.4	1302.5	1293.6	1289.2	1280.2	1280.2	1258.1	1240.2	1231.4
50°	1164.8	1164.8	1164.8	1155.9	1146.9	1146.9	1138.0	1129.1	1115.9	1102.5	1093.6
52.5°	1035.8	1035.8	1035.8	1026.9	1022.5	1018.0	1013.6	1009.1	991.4	982.5	973.5
55°	929.1	924.6	924.6	920.2	911.4	911.4	906.9	898.0	884.6	871.4	866.9
57.5°	822.4	826.9	822.4	822.4	813.5	813.5	804.6	800.1	786.9	778.0	769.1
60°	738.0	738.0	738.0	733.5	724.6	729.0	720.1	715.8	702.4	689.0	680.1
62.5°	653.5	657.9	657.9	653.5	644.6	644.6	640.1	635.8	622.4	609.0	595.8
65°	582.4	582.4	582.4	577.9	573.5	573.5	569.0	564.6	551.2	533.5	520.1
67.5°	515.6	511.2	511.2	511.2	506.8	502.4	497.9	493.5	480.1	466.8	449.0
70°	449.0	449.0	449.0	444.5	435.6	440.1	435.6	431.2	417.9	404.5	391.2
72.5°	386.8	386.8	382.2	377.9	377.9	373.4	373.4	369.0	355.6	337.9	324.5
75°	320.1	320.1	320.1	320.1	311.1	315.6	306.8	302.2	293.4	280.1	266.8
77.5°	262.2	262.2	262.2	257.9	253.4	253.4	249.0	244.5	231.1	222.2	204.5
80°	204.5	204.5	204.5	204.5	200.0	195.6	191.1	186.8	177.9	164.5	151.1
82.5°	151.1	151.1	146.8	146.8	146.8	142.2	137.8	133.4	124.5	115.6	106.8
85°	84.5	88.9	88.9	80.0	84.5	80.0	80.0	71.1	71.1	62.2	57.8
87.5°	31.1	26.6	26.6	26.6	26.6	26.6	26.6	22.2	22.2	22.2	17.8
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°	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0
2.5°	3423.0	3418.6	3436.4	3436.4	3409.6	3423.0	3427.5	3418.6	3418.6	3423.0	3409.6
5°	3414.1	3405.2	3423.0	3427.5	3400.8	3414.1	3418.6	3409.6	3414.1	3418.6	3400.8
7.5°	3383.0	3383.0	3396.4	3400.8	3374.1	3387.5	3387.5	3378.6	3383.0	3383.0	3369.6
10°	3351.9	3338.5	3351.9	3351.9	3329.6	3334.1	3343.0	3338.5	3356.4	3378.6	3378.6
12.5°	3294.1	3280.8	3303.0	3303.0	3289.6	3307.5	3329.6	3343.0	3360.8	3369.6	3343.0
15°	3223.0	3227.4	3267.4	3298.5	3285.2	3311.9	3334.1	3325.2	3303.0	3276.4	3236.2
17.5°	3129.6	3116.2	3151.9	3169.6	3151.9	3160.8	3178.5	3160.8	3125.1	3103.0	3049.6
20°	3022.9	2987.4	2987.4	2978.5	2947.4	2947.4	2942.9	2911.8	2898.5	2885.1	2862.9
22.5°	2902.9	2862.9	2849.5	2822.9	2796.2	2791.8	2778.4	2747.2	2729.5	2720.6	2694.0
25°	2765.1	2729.5	2707.2	2680.6	2640.6	2631.8	2618.4	2587.2	2578.4	2565.0	2542.9
27.5°	2622.9	2578.4	2547.2	2520.6	2485.0	2480.6	2453.9	2431.6	2413.9	2405.0	2387.2
30°	2458.4	2409.5	2387.2	2351.6	2325.0	2316.1	2293.9	2262.8	2249.4	2240.5	2227.2
32.5°	2276.1	2236.1	2213.9	2182.8	2147.1	2151.6	2125.0	2098.2	2089.4	2080.5	2067.1
35°	2098.2	2058.2	2031.6	2004.9	1982.6	1973.8	1956.0	1933.8	1920.5	1916.0	1907.1
37.5°	1902.6	1871.5	1849.4	1822.6	1804.9	1796.0	1787.1	1764.9	1756.0	1756.0	1738.1
40°	1711.5	1684.9	1667.0	1653.8	1631.5	1627.0	1618.1	1604.9	1600.4	1595.9	1582.6
42.5°	1538.1	1502.6	1489.2	1480.4	1467.0	1458.1	1453.6	1444.8	1440.4	1435.9	1422.5
45°	1373.6	1342.5	1329.2	1320.2	1307.0	1302.5	1298.1	1284.8	1275.9	1267.0	1262.5
47.5°	1213.6	1191.4	1187.0	1164.8	1155.9	1146.9	1138.0	1129.1	1124.8	1120.2	1102.5
50°	1075.8	1062.5	1040.2	1026.9	1018.0	1013.6	995.8	982.5	978.0	973.5	960.2
52.5°	951.4	933.5	920.2	898.0	893.5	884.6	875.8	858.0	849.1	844.6	831.2
55°	840.2	826.9	809.1	791.2	778.0	773.5	760.1	742.4	733.5	724.6	715.8
57.5°	746.9	724.6	706.9	689.0	680.1	666.9	653.5	644.6	631.2	617.9	604.6
60°	657.9	640.1	617.9	600.1	591.2	582.4	564.6	551.2	537.9	524.6	511.2
62.5°	573.5	555.6	533.5	515.6	506.8	497.9	480.1	466.8	453.5	440.1	422.4
65°	497.9	480.1	462.4	444.5	435.6	426.8	409.0	391.2	377.9	364.5	346.8
67.5°	435.6	413.4	395.6	377.9	369.0	360.1	342.2	329.0	311.1	297.9	280.1
70°	369.0	351.2	337.9	320.1	311.1	302.2	284.5	266.8	253.4	240.0	222.2
72.5°	311.1	289.0	275.6	257.9	249.0	244.5	226.8	213.4	200.0	182.2	168.9
75°	249.0	231.1	213.4	200.0	191.1	186.8	168.9	155.6	142.2	128.9	115.6
77.5°	191.1	177.9	160.0	146.8	137.8	133.4	115.6	102.2	88.9	80.0	66.6
80°	142.2	124.5	115.6	102.2	97.8	88.9	80.0	66.6	57.8	44.5	35.6
82.5°	97.8	84.5	75.6	66.6	62.2	57.8	48.9	40.0	31.1	26.6	22.2
85°	53.4	44.5	40.0	35.6	31.1	31.1	26.6	22.2	17.8	13.4	8.9
87.5°	17.8	13.4	13.4	13.4	13.4	8.9	8.9	8.9	4.5	4.5	4.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0
2.5°	3418.6	3418.6	3418.6	3414.1	3414.1	3414.1	3409.6	3427.5	3409.6	3405.2	3418.6
5°	3414.1	3405.2	3405.2	3405.2	3405.2	3400.8	3396.4	3405.2	3391.9	3387.5	3387.5
7.5°	3387.5	3383.0	3383.0	3378.6	3374.1	3369.6	3365.2	3369.6	3356.4	3351.9	3351.9
10°	3391.9	3383.0	3383.0	3369.6	3360.8	3347.5	3334.1	3338.5	3320.8	3307.5	3307.5
12.5°	3338.5	3316.4	3303.0	3289.6	3280.8	3276.4	3258.5	3267.4	3249.6	3245.2	3245.2
15°	3218.5	3191.9	3169.6	3160.8	3160.8	3151.9	3138.5	3156.2	3147.4	3151.9	3174.1
17.5°	3031.9	3018.5	3005.1	3000.8	3005.1	3014.0	3022.9	3049.6	3049.6	3063.0	3085.1
20°	2867.4	2858.5	2867.4	2867.4	2871.8	2889.6	2907.4	2929.6	2938.5	2951.8	2982.9
22.5°	2707.2	2707.2	2716.2	2729.5	2725.1	2756.2	2760.6	2800.6	2800.6	2827.4	2854.0
25°	2551.8	2551.8	2560.6	2565.0	2573.9	2591.8	2609.5	2640.6	2649.5	2676.1	2698.4
27.5°	2400.5	2396.1	2396.1	2400.5	2409.5	2431.6	2440.6	2476.1	2489.5	2507.2	2529.5
30°	2231.6	2227.2	2236.1	2245.0	2240.5	2262.8	2276.1	2302.8	2311.6	2329.4	2347.2
32.5°	2071.6	2071.6	2071.6	2080.5	2080.5	2098.2	2098.2	2129.4	2129.4	2142.8	2160.5
35°	1907.1	1907.1	1911.5	1916.0	1920.5	1924.9	1929.4	1947.1	1951.6	1956.0	1964.9
37.5°	1751.5	1747.1	1751.5	1751.5	1742.6	1760.4	1760.4	1778.2	1764.9	1778.2	1782.6
40°	1591.5	1591.5	1587.0	1587.0	1587.0	1595.9	1587.0	1600.4	1591.5	1600.4	1595.9
42.5°	1427.0	1427.0	1418.1	1427.0	1422.5	1422.5	1422.5	1431.5	1418.1	1427.0	1431.5
45°	1262.5	1258.1	1258.1	1253.6	1253.6	1253.6	1258.1	1258.1	1253.6	1262.5	1262.5
47.5°	1102.5	1098.0	1098.0	1098.0	1098.0	1102.5	1089.1	1098.0	1089.1	1089.1	1089.1
50°	964.6	960.2	955.8	951.4	946.9	946.9	942.5	942.5	933.5	929.1	924.6
52.5°	831.2	826.9	818.0	818.0	813.5	809.1	795.8	795.8	782.4	778.0	778.0
55°	711.2	698.0	693.5	684.6	684.6	675.8	666.9	657.9	644.6	635.8	635.8
57.5°	600.1	586.8	577.9	573.5	569.0	560.1	542.4	537.9	520.1	515.6	511.2
60°	502.4	489.0	475.6	466.8	462.4	449.0	431.2	422.4	413.4	400.1	386.8
62.5°	409.0	395.6	377.9	373.4	364.5	351.2	337.9	324.5	315.6	302.2	293.4
65°	329.0	315.6	302.2	293.4	284.5	271.1	257.9	244.5	235.6	231.1	226.8
67.5°	266.8	249.0	235.6	231.1	222.2	213.4	200.0	195.6	186.8	186.8	186.8
70°	209.0	195.6	182.2	177.9	173.4	164.5	155.6	155.6	155.6	155.6	155.6
72.5°	155.6	146.8	133.4	128.9	124.5	120.0	111.1	115.6	111.1	111.1	111.1
75°	97.8	88.9	80.0	75.6	71.1	66.6	62.2	57.8	53.4	48.9	48.9
77.5°	53.4	44.5	40.0	35.6	35.6	31.1	26.6	26.6	22.2	22.2	22.2
80°	31.1	26.6	22.2	17.8	17.8	13.4	13.4	13.4	13.4	8.9	8.9
82.5°	17.8	13.4	8.9	8.9	8.9	8.9	4.5	4.5	4.5	4.5	4.5
85°	8.9	8.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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: P252402

CATALOG NUMBER: LE_6B50D010R EC6B30508030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0	3423.0
2.5°	3396.4	3409.6	3396.4	3409.6	3409.6	3409.6	3409.6	3396.4
5°	3374.1	3383.0	3369.6	3378.6	3383.0	3378.6	3378.6	3365.2
7.5°	3334.1	3343.0	3329.6	3343.0	3347.5	3343.0	3338.5	3329.6
10°	3294.1	3298.5	3285.2	3294.1	3303.0	3303.0	3298.5	3285.2
12.5°	3231.9	3245.2	3231.9	3240.8	3249.6	3254.1	3254.1	3240.8
15°	3160.8	3183.0	3174.1	3187.4	3200.8	3205.2	3205.2	3200.8
17.5°	3089.6	3111.9	3098.5	3120.8	3134.1	3143.0	3147.4	3138.5
20°	2987.4	3014.0	3005.1	3022.9	3040.8	3054.0	3054.0	3040.8
22.5°	2854.0	2889.6	2885.1	2898.5	2920.6	2925.1	2934.0	2925.1
25°	2707.2	2734.0	2729.5	2742.9	2769.5	2769.5	2774.0	2774.0
27.5°	2538.4	2565.0	2560.6	2569.5	2587.2	2591.8	2596.1	2587.2
30°	2356.1	2369.5	2369.5	2382.8	2396.1	2400.5	2400.5	2387.2
32.5°	2156.0	2173.9	2182.8	2178.2	2191.6	2200.5	2196.1	2196.1
35°	1973.8	1978.2	1982.6	1987.1	1991.6	2000.5	1991.6	1987.1
37.5°	1778.2	1791.5	1782.6	1791.5	1800.4	1796.0	1791.5	1791.5
40°	1600.4	1604.9	1595.9	1604.9	1609.2	1609.2	1609.2	1600.4
42.5°	1422.5	1431.5	1422.5	1431.5	1431.5	1431.5	1431.5	1427.0
45°	1244.8	1253.6	1253.6	1258.1	1258.1	1253.6	1253.6	1253.6
47.5°	1080.2	1089.1	1080.2	1089.1	1093.6	1084.8	1084.8	1084.8
50°	924.6	920.2	920.2	924.6	924.6	924.6	924.6	920.2
52.5°	764.6	769.1	769.1	769.1	773.5	769.1	773.5	773.5
55°	626.9	626.9	626.9	631.2	626.9	626.9	631.2	635.8
57.5°	502.4	497.9	493.5	493.5	497.9	493.5	493.5	493.5
60°	386.8	382.2	377.9	377.9	377.9	377.9	377.9	373.4
62.5°	289.0	289.0	289.0	293.4	293.4	293.4	293.4	297.9
65°	231.1	231.1	231.1	231.1	231.1	231.1	231.1	235.6
67.5°	186.8	186.8	186.8	191.1	191.1	191.1	191.1	191.1
70°	155.6	155.6	160.0	155.6	160.0	160.0	160.0	160.0
72.5°	106.8	106.8	106.8	106.8	106.8	102.2	106.8	102.2
75°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	40.0
77.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
80°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	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)