

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: P252423

Luminaire Tested: **LE_6B60D010R EC6B60709040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252423
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_6B60D010R EC6B60709040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5857.5 lumens
Efficiency: N/A
Efficacy: 93.7 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

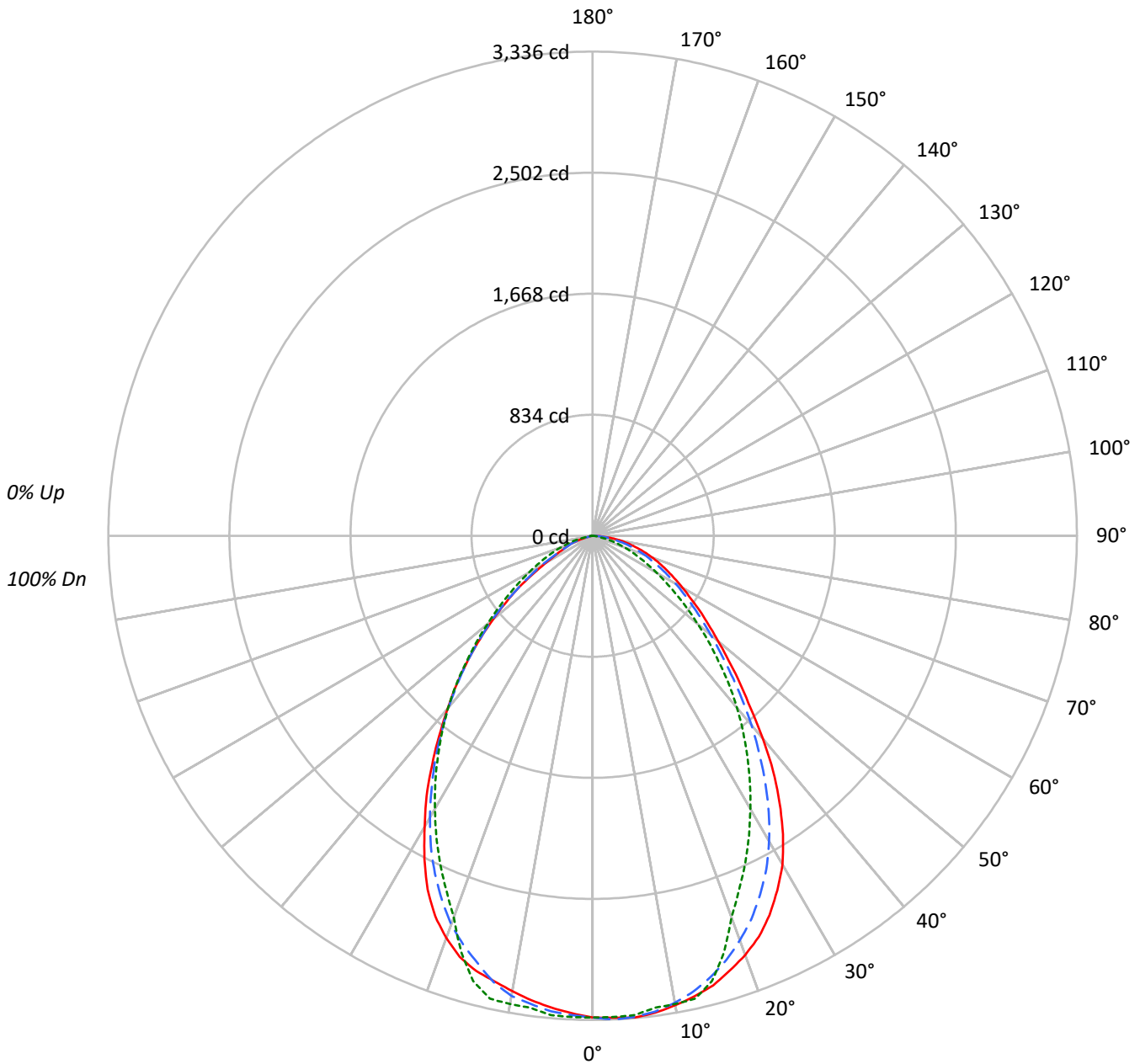
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	216527	216527	216527
5°	218206	217073	213687
10°	217582	217012	211010
15°	216601	214554	209610
20°	213365	194217	204687
25°	207576	179027	193611
30°	197102	163654	174367
35°	178849	147963	153458
40°	155274	131785	132160
45°	132436	113337	112147
50°	114610	95813	90555
55°	102472	79916	70112
60°	93359	66363	47247
65°	87159	54571	35274
70°	83053	44407	29585
75°	78243	31509	9780
80°	74465	16193	3231
85°	61306	9656	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	5.4
10°-20°	876.6	15.0
20°-30°	1210.0	20.7
30°-40°	1231.3	21.0
40°-50°	989.5	16.9
50°-60°	658.0	11.2
60°-70°	374.9	6.4
70°-80°	168.4	2.9
80°-90°	35.4	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°	2399.9	41.0
0°-40°	3631.2	62.0
0°-60°	5278.7	90.1
0°-90°	5857.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5857.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3319	3319	3319	3319	3319	
5°	3332	3328	3315	3289	3263	316
15°	3207	3146	3177	3052	3103	902
25°	2884	2728	2487	2569	2690	1321
35°	2246	2073	1858	1892	1927	1396
45°	1435	1349	1228	1216	1216	1113
55°	901	840	703	625	616	809
65°	565	504	354	228	228	562
75°	310	259	125	52	39	331
85°	82	56	13	4	0	97
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°	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9
2.5°	3323.2	3340.5	3336.1	3331.9	3336.1	3331.9	3323.2	3323.2	3314.6	3314.6	3336.1
5°	3331.9	3340.5	3336.1	3331.9	3331.9	3336.1	3318.9	3318.9	3310.2	3306.0	3327.5
7.5°	3314.6	3327.5	3318.9	3318.9	3314.6	3318.9	3301.6	3301.6	3288.8	3284.4	3306.0
10°	3284.4	3301.6	3293.0	3293.0	3293.0	3284.4	3275.8	3271.5	3258.6	3254.2	3267.1
12.5°	3250.0	3262.9	3258.6	3250.0	3250.0	3250.0	3232.8	3228.4	3211.1	3202.5	3215.5
15°	3206.9	3215.5	3211.1	3206.9	3198.2	3198.2	3181.0	3172.4	3155.1	3137.9	3146.5
17.5°	3142.1	3155.1	3146.5	3142.1	3129.2	3129.2	3112.0	3103.4	3077.5	3060.2	3064.6
20°	3073.2	3077.5	3073.2	3064.6	3051.6	3047.4	3030.1	3012.9	2991.4	2969.8	2965.5
22.5°	2991.4	2995.6	2982.8	2974.1	2961.1	2956.9	2935.2	2922.4	2887.9	2862.0	2857.8
25°	2883.6	2887.9	2887.9	2866.4	2857.8	2849.1	2827.5	2806.0	2775.9	2741.4	2728.4
27.5°	2754.2	2767.2	2758.6	2737.0	2719.8	2715.5	2693.9	2676.6	2637.9	2607.8	2590.5
30°	2616.4	2612.0	2607.8	2594.8	2568.9	2564.6	2543.0	2521.5	2491.4	2452.5	2431.0
32.5°	2439.6	2439.6	2435.2	2422.4	2396.5	2387.9	2370.6	2344.8	2310.2	2280.1	2258.6
35°	2245.6	2250.0	2245.6	2219.8	2202.5	2193.9	2185.2	2155.1	2125.0	2090.5	2073.2
37.5°	2043.1	2030.1	2034.5	2012.9	1991.4	2000.0	1974.1	1961.1	1926.8	1900.9	1883.6
40°	1823.2	1831.9	1814.6	1806.0	1793.1	1780.1	1780.1	1758.6	1741.4	1711.1	1702.5
42.5°	1607.8	1620.6	1616.4	1607.8	1590.5	1594.8	1573.2	1564.6	1543.1	1530.1	1517.2
45°	1435.4	1435.4	1435.4	1426.8	1422.4	1413.8	1400.9	1387.9	1375.0	1357.8	1349.1
47.5°	1267.2	1267.2	1271.5	1262.9	1254.2	1250.0	1241.4	1241.4	1219.8	1202.6	1194.0
50°	1129.2	1129.2	1129.2	1120.6	1112.0	1112.0	1103.4	1094.8	1081.9	1069.0	1060.4
52.5°	1004.2	1004.2	1004.2	995.6	991.4	987.0	982.8	978.4	961.2	952.6	944.0
55°	900.9	896.5	896.5	892.2	883.6	883.6	879.2	870.6	857.8	844.9	840.5
57.5°	797.4	801.8	797.4	797.4	788.8	788.8	780.1	775.9	762.9	754.2	745.6
60°	715.5	715.5	715.5	711.2	702.6	706.9	698.2	694.0	681.0	668.1	659.5
62.5°	633.6	637.9	637.9	633.6	625.0	625.0	620.6	616.4	603.5	590.5	577.6
65°	564.6	564.6	564.6	560.4	556.0	556.0	551.8	547.4	534.5	517.2	504.2
67.5°	500.0	495.6	495.6	495.6	491.4	487.0	482.8	478.5	465.5	452.6	435.4
70°	435.4	435.4	435.4	431.0	422.4	426.8	422.4	418.1	405.1	392.2	379.2
72.5°	375.0	375.0	370.6	366.4	366.4	362.1	362.1	357.8	344.9	327.6	314.6
75°	310.4	310.4	310.4	310.4	301.8	306.0	297.4	293.1	284.5	271.5	258.6
77.5°	254.2	254.2	254.2	250.0	245.6	245.6	241.4	237.1	224.1	215.5	198.2
80°	198.2	198.2	198.2	198.2	194.0	189.6	185.4	181.0	172.4	159.5	146.5
82.5°	146.5	146.5	142.2	142.2	142.2	137.9	133.6	129.2	120.8	112.1	103.5
85°	81.9	86.2	86.2	77.6	81.9	77.6	77.6	69.0	69.0	60.4	56.0
87.5°	30.1	25.9	25.9	25.9	25.9	25.9	25.9	21.5	21.5	21.5	17.2
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°	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9
2.5°	3318.9	3314.6	3331.9	3331.9	3306.0	3318.9	3323.2	3314.6	3314.6	3318.9	3306.0
5°	3310.2	3301.6	3318.9	3323.2	3297.4	3310.2	3314.6	3306.0	3310.2	3314.6	3297.4
7.5°	3280.1	3280.1	3293.0	3297.4	3271.5	3284.4	3284.4	3275.8	3280.1	3280.1	3267.1
10°	3250.0	3237.0	3250.0	3250.0	3228.4	3232.8	3241.4	3237.0	3254.2	3275.8	3275.8
12.5°	3193.9	3181.0	3202.5	3202.5	3189.6	3206.9	3228.4	3241.4	3258.6	3267.1	3241.4
15°	3125.0	3129.2	3168.0	3198.2	3185.2	3211.1	3232.8	3224.1	3202.5	3176.6	3137.9
17.5°	3034.4	3021.5	3056.0	3073.2	3056.0	3064.6	3081.9	3064.6	3030.1	3008.6	2956.9
20°	2931.0	2896.5	2896.5	2887.9	2857.8	2857.8	2853.4	2823.2	2810.2	2797.4	2775.9
22.5°	2814.6	2775.9	2762.9	2737.0	2711.1	2706.9	2693.9	2663.8	2646.5	2637.9	2612.0
25°	2681.0	2646.5	2625.0	2599.1	2560.2	2551.6	2538.8	2508.6	2500.0	2487.0	2465.5
27.5°	2543.0	2500.0	2469.8	2443.9	2409.5	2405.1	2379.2	2357.8	2340.5	2331.9	2314.6
30°	2383.6	2336.1	2314.6	2280.1	2254.2	2245.6	2224.1	2193.9	2181.0	2172.4	2159.5
32.5°	2206.9	2168.1	2146.5	2116.4	2081.9	2086.1	2060.2	2034.5	2025.9	2017.2	2004.2
35°	2034.5	1995.6	1969.8	1943.9	1922.4	1913.8	1896.5	1875.0	1862.0	1857.8	1849.1
37.5°	1844.8	1814.6	1793.1	1767.2	1750.0	1741.4	1732.8	1711.1	1702.5	1702.5	1685.4
40°	1659.5	1633.6	1616.4	1603.4	1581.9	1577.5	1569.0	1556.0	1551.8	1547.4	1534.5
42.5°	1491.4	1456.9	1444.0	1435.4	1422.4	1413.8	1409.5	1400.9	1396.5	1392.2	1379.2
45°	1331.9	1301.8	1288.8	1280.1	1267.2	1262.9	1258.6	1245.6	1237.0	1228.4	1224.1
47.5°	1176.8	1155.1	1150.9	1129.2	1120.6	1112.0	1103.4	1094.8	1090.5	1086.2	1069.0
50°	1043.1	1030.1	1008.6	995.6	987.0	982.8	965.5	952.6	948.2	944.0	931.0
52.5°	922.4	905.1	892.2	870.6	866.4	857.8	849.1	831.9	823.2	819.0	806.0
55°	814.6	801.8	784.5	767.2	754.2	750.0	737.0	719.9	711.2	702.6	694.0
57.5°	724.1	702.6	685.4	668.1	659.5	646.5	633.6	625.0	612.0	599.1	586.2
60°	637.9	620.6	599.1	581.9	573.2	564.6	547.4	534.5	521.5	508.6	495.6
62.5°	556.0	538.8	517.2	500.0	491.4	482.8	465.5	452.6	439.6	426.8	409.5
65°	482.8	465.5	448.2	431.0	422.4	413.8	396.5	379.2	366.4	353.5	336.2
67.5°	422.4	400.9	383.6	366.4	357.8	349.1	331.9	319.0	301.8	288.8	271.5
70°	357.8	340.5	327.6	310.4	301.8	293.1	275.9	258.6	245.6	232.8	215.5
72.5°	301.8	280.1	267.2	250.0	241.4	237.1	219.9	206.9	194.0	176.8	163.8
75°	241.4	224.1	206.9	194.0	185.4	181.0	163.8	150.9	137.9	125.0	112.1
77.5°	185.4	172.4	155.1	142.2	133.6	129.2	112.1	99.1	86.2	77.6	64.6
80°	137.9	120.8	112.1	99.1	94.9	86.2	77.6	64.6	56.0	43.1	34.5
82.5°	94.9	81.9	73.2	64.6	60.4	56.0	47.4	38.8	30.1	25.9	21.5
85°	51.8	43.1	38.8	34.5	30.1	30.1	25.9	21.5	17.2	12.9	8.6
87.5°	17.2	12.9	12.9	12.9	12.9	8.6	8.6	8.6	4.2	4.2	4.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9
2.5°	3314.6	3314.6	3314.6	3310.2	3310.2	3310.2	3306.0	3323.2	3306.0	3301.6	3314.6
5°	3310.2	3301.6	3301.6	3301.6	3301.6	3297.4	3293.0	3301.6	3288.8	3284.4	3284.4
7.5°	3284.4	3280.1	3280.1	3275.8	3271.5	3267.1	3262.9	3267.1	3254.2	3250.0	3250.0
10°	3288.8	3280.1	3280.1	3267.1	3258.6	3245.6	3232.8	3237.0	3219.8	3206.9	3206.9
12.5°	3237.0	3215.5	3202.5	3189.6	3181.0	3176.6	3159.4	3168.0	3150.8	3146.5	3146.5
15°	3120.6	3094.8	3073.2	3064.6	3064.6	3056.0	3043.0	3060.2	3051.6	3056.0	3077.5
17.5°	2939.6	2926.6	2913.8	2909.4	2913.8	2922.4	2931.0	2956.9	2956.9	2969.8	2991.4
20°	2780.1	2771.5	2780.1	2780.1	2784.4	2801.6	2818.9	2840.5	2849.1	2862.0	2892.2
22.5°	2625.0	2625.0	2633.6	2646.5	2642.2	2672.4	2676.6	2715.5	2715.5	2741.4	2767.2
25°	2474.1	2474.1	2482.8	2487.0	2495.6	2512.9	2530.1	2560.2	2568.9	2594.8	2616.4
27.5°	2327.5	2323.2	2323.2	2327.5	2336.1	2357.8	2366.4	2400.9	2413.8	2431.0	2452.5
30°	2163.8	2159.5	2168.1	2176.6	2172.4	2193.9	2206.9	2232.8	2241.4	2258.6	2275.9
32.5°	2008.6	2008.6	2008.6	2017.2	2017.2	2034.5	2034.5	2064.6	2064.6	2077.5	2094.8
35°	1849.1	1849.1	1853.4	1857.8	1862.0	1866.4	1870.6	1887.9	1892.2	1896.5	1905.1
37.5°	1698.2	1693.9	1698.2	1698.2	1689.6	1706.9	1706.9	1724.1	1711.1	1724.1	1728.4
40°	1543.1	1543.1	1538.8	1538.8	1538.8	1547.4	1538.8	1551.8	1543.1	1551.8	1547.4
42.5°	1383.6	1383.6	1375.0	1383.6	1379.2	1379.2	1379.2	1387.9	1375.0	1383.6	1387.9
45°	1224.1	1219.8	1219.8	1215.5	1215.5	1215.5	1219.8	1219.8	1215.5	1224.1	1224.1
47.5°	1069.0	1064.6	1064.6	1064.6	1064.6	1069.0	1056.0	1064.6	1056.0	1056.0	1056.0
50°	935.4	931.0	926.8	922.4	918.1	918.1	913.8	913.8	905.1	900.9	896.5
52.5°	806.0	801.8	793.1	793.1	788.8	784.5	771.5	771.5	758.6	754.2	754.2
55°	689.6	676.8	672.4	663.8	663.8	655.1	646.5	637.9	625.0	616.4	616.4
57.5°	581.9	569.0	560.4	556.0	551.8	543.1	525.9	521.5	504.2	500.0	495.6
60°	487.0	474.1	461.2	452.6	448.2	435.4	418.1	409.5	400.9	387.9	375.0
62.5°	396.5	383.6	366.4	362.1	353.5	340.5	327.6	314.6	306.0	293.1	284.5
65°	319.0	306.0	293.1	284.5	275.9	262.9	250.0	237.1	228.5	224.1	219.9
67.5°	258.6	241.4	228.5	224.1	215.5	206.9	194.0	189.6	181.0	181.0	181.0
70°	202.6	189.6	176.8	172.4	168.1	159.5	150.9	150.9	150.9	150.9	150.9
72.5°	150.9	142.2	129.2	125.0	120.8	116.4	107.8	112.1	107.8	107.8	107.8
75°	94.9	86.2	77.6	73.2	69.0	64.6	60.4	56.0	51.8	47.4	47.4
77.5°	51.8	43.1	38.8	34.5	34.5	30.1	25.9	25.9	21.5	21.5	21.5
80°	30.1	25.9	21.5	17.2	17.2	12.9	12.9	12.9	12.9	8.6	8.6
82.5°	17.2	12.9	8.6	8.6	8.6	8.6	4.2	4.2	4.2	4.2	4.2
85°	8.6	8.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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: P252423

CATALOG NUMBER: LE_6B60D010R EC6B60709040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9
2.5°	3293.0	3306.0	3293.0	3306.0	3306.0	3306.0	3306.0	3293.0
5°	3271.5	3280.1	3267.1	3275.8	3280.1	3275.8	3275.8	3262.9
7.5°	3232.8	3241.4	3228.4	3241.4	3245.6	3241.4	3237.0	3228.4
10°	3193.9	3198.2	3185.2	3193.9	3202.5	3202.5	3198.2	3185.2
12.5°	3133.6	3146.5	3133.6	3142.1	3150.8	3155.1	3155.1	3142.1
15°	3064.6	3086.1	3077.5	3090.5	3103.4	3107.8	3107.8	3103.4
17.5°	2995.6	3017.2	3004.2	3025.8	3038.8	3047.4	3051.6	3043.0
20°	2896.5	2922.4	2913.8	2931.0	2948.2	2961.1	2961.1	2948.2
22.5°	2767.2	2801.6	2797.4	2810.2	2831.9	2836.1	2844.8	2836.1
25°	2625.0	2650.9	2646.5	2659.4	2685.2	2685.2	2689.6	2689.6
27.5°	2461.1	2487.0	2482.8	2491.4	2508.6	2512.9	2517.2	2508.6
30°	2284.5	2297.4	2297.4	2310.2	2323.2	2327.5	2327.5	2314.6
32.5°	2090.5	2107.8	2116.4	2112.0	2125.0	2133.6	2129.2	2129.2
35°	1913.8	1918.1	1922.4	1926.8	1931.0	1939.6	1931.0	1926.8
37.5°	1724.1	1737.0	1728.4	1737.0	1745.6	1741.4	1737.0	1737.0
40°	1551.8	1556.0	1547.4	1556.0	1560.4	1560.4	1560.4	1551.8
42.5°	1379.2	1387.9	1379.2	1387.9	1387.9	1387.9	1387.9	1383.6
45°	1206.9	1215.5	1215.5	1219.8	1219.8	1215.5	1215.5	1215.5
47.5°	1047.4	1056.0	1047.4	1056.0	1060.4	1051.8	1051.8	1051.8
50°	896.5	892.2	892.2	896.5	896.5	896.5	896.5	892.2
52.5°	741.4	745.6	745.6	745.6	750.0	745.6	750.0	750.0
55°	607.8	607.8	607.8	612.0	607.8	607.8	612.0	616.4
57.5°	487.0	482.8	478.5	478.5	482.8	478.5	478.5	478.5
60°	375.0	370.6	366.4	366.4	366.4	366.4	366.4	362.1
62.5°	280.1	280.1	280.1	284.5	284.5	284.5	284.5	288.8
65°	224.1	224.1	224.1	224.1	224.1	224.1	224.1	228.5
67.5°	181.0	181.0	181.0	185.4	185.4	185.4	185.4	185.4
70°	150.9	150.9	155.1	150.9	155.1	155.1	155.1	155.1
72.5°	103.5	103.5	103.5	103.5	103.5	99.1	103.5	99.1
75°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	38.8
77.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
80°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	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)