

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: P252414

Luminaire Tested: **LE_6B60D010R EC6B60708027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252414
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 EC6B60708027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6457.5 lumens
Efficiency: N/A
Efficacy: 103.3 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

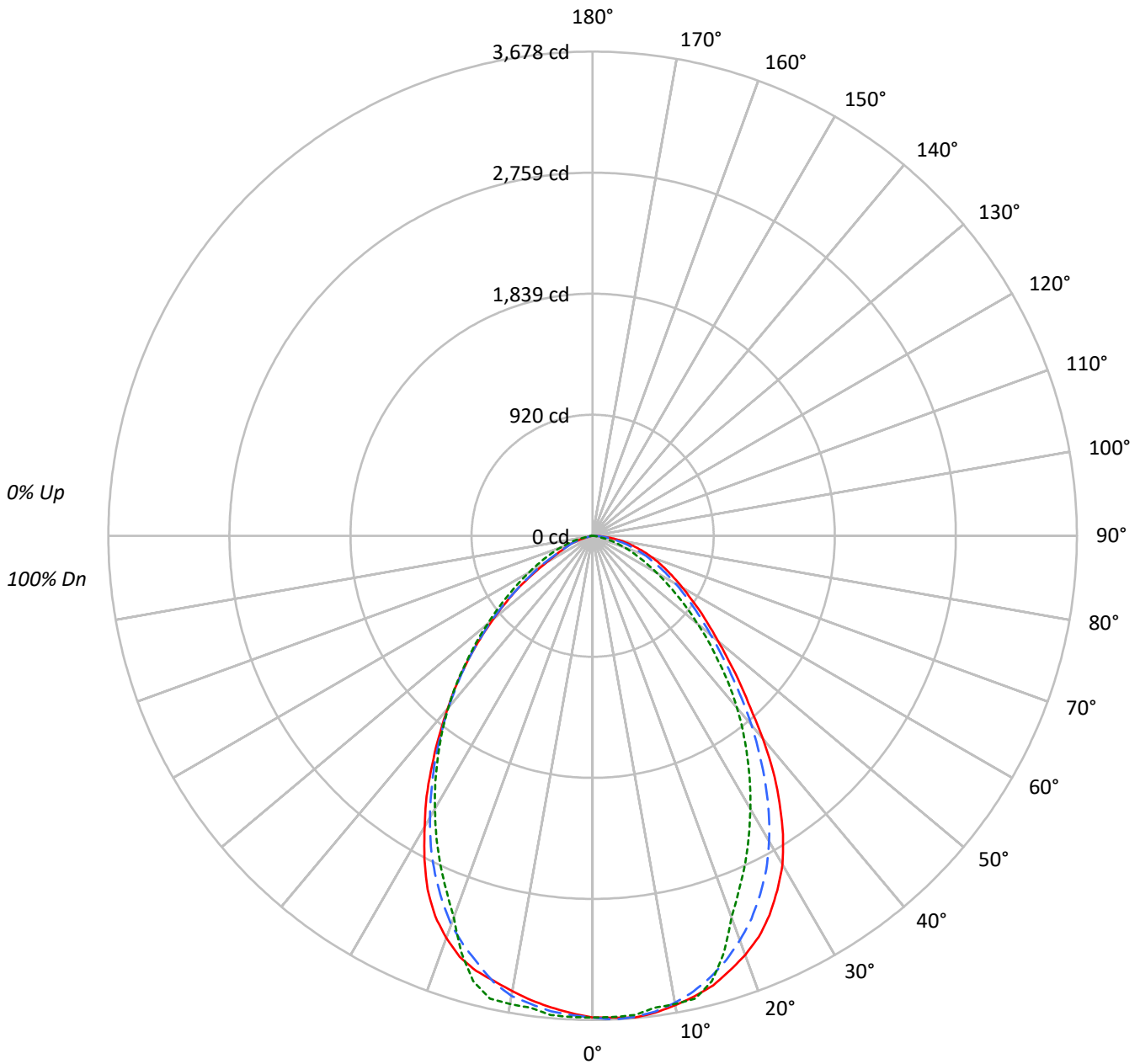
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	238709	238709	238709
5°	240551	239306	235573
10°	239874	239245	232633
15°	238788	236539	231075
20°	235221	214108	225654
25°	228841	197369	213443
30°	217292	180416	192236
35°	197167	163111	169164
40°	171183	145284	145684
45°	145999	124944	123634
50°	126363	105617	99832
55°	112959	88094	77289
60°	102924	73174	52075
65°	96097	60144	38886
70°	91541	48947	32637
75°	86233	34735	10789
80°	82129	17846	3569
85°	67519	10629	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	5.4
10°-20°	966.4	15.0
20°-30°	1333.9	20.7
30°-40°	1357.4	21.0
40°-50°	1090.9	16.9
50°-60°	725.4	11.2
60°-70°	413.3	6.4
70°-80°	185.6	2.9
80°-90°	39.1	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°	2645.8	41.0
0°-40°	4003.2	62.0
0°-60°	5819.4	90.1
0°-90°	6457.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6457.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3659	3659	3659	3659	3659	
5°	3673	3668	3654	3626	3597	349
15°	3535	3469	3502	3364	3421	995
25°	3179	3008	2742	2832	2965	1457
35°	2476	2286	2048	2086	2124	1539
45°	1582	1487	1354	1340	1340	1227
55°	993	927	774	689	680	892
65°	622	556	390	252	252	620
75°	342	285	138	57	43	365
85°	90	62	14	5	0	107
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°	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9
2.5°	3663.6	3682.6	3677.9	3673.1	3677.9	3673.1	3663.6	3663.6	3654.1	3654.1	3677.9
5°	3673.1	3682.6	3677.9	3673.1	3673.1	3677.9	3658.9	3658.9	3649.4	3644.6	3668.4
7.5°	3654.1	3668.4	3658.9	3658.9	3654.1	3658.9	3639.9	3639.9	3625.6	3620.9	3644.6
10°	3620.9	3639.9	3630.4	3630.4	3630.4	3620.9	3611.4	3606.6	3592.4	3587.6	3601.9
12.5°	3582.9	3597.1	3592.4	3582.9	3582.9	3582.9	3563.9	3559.1	3540.1	3530.6	3544.9
15°	3535.4	3544.9	3540.1	3535.4	3525.9	3525.9	3506.9	3497.4	3478.2	3459.2	3468.8
17.5°	3464.0	3478.2	3468.8	3464.0	3449.8	3449.8	3430.8	3421.2	3392.8	3373.8	3378.5
20°	3388.0	3392.8	3388.0	3378.5	3364.2	3359.5	3340.5	3321.5	3297.8	3274.0	3269.2
22.5°	3297.8	3302.5	3288.2	3278.8	3264.5	3259.8	3236.0	3221.8	3183.8	3155.1	3150.4
25°	3179.0	3183.8	3183.8	3159.9	3150.4	3140.9	3117.1	3093.4	3060.1	3022.1	3007.9
27.5°	3036.4	3050.6	3041.1	3017.4	2998.4	2993.6	2969.9	2950.9	2908.1	2874.9	2855.9
30°	2884.4	2879.6	2874.9	2860.6	2832.1	2827.2	2803.5	2779.8	2746.5	2703.8	2680.0
32.5°	2689.5	2689.5	2684.8	2670.5	2642.0	2632.5	2613.5	2585.0	2547.0	2513.8	2489.9
35°	2475.6	2480.4	2475.6	2447.1	2428.1	2418.6	2409.1	2375.9	2342.6	2304.6	2285.6
37.5°	2252.4	2238.1	2242.9	2219.1	2195.4	2204.9	2176.4	2162.0	2124.0	2095.5	2076.5
40°	2010.0	2019.5	2000.5	1991.0	1976.8	1962.5	1962.5	1938.8	1919.8	1886.5	1877.0
42.5°	1772.4	1786.6	1781.9	1772.4	1753.4	1758.1	1734.4	1724.9	1701.1	1686.9	1672.6
45°	1582.4	1582.4	1582.4	1572.9	1568.1	1558.6	1544.4	1530.1	1515.9	1496.8	1487.2
47.5°	1397.0	1397.0	1401.8	1392.2	1382.8	1378.0	1368.5	1368.5	1344.8	1325.8	1316.2
50°	1245.0	1245.0	1245.0	1235.5	1226.0	1226.0	1216.5	1207.0	1192.8	1178.5	1169.0
52.5°	1107.1	1107.1	1107.1	1097.6	1092.9	1088.1	1083.4	1078.6	1059.6	1050.1	1040.6
55°	993.1	988.4	988.4	983.6	974.1	974.1	969.4	959.9	945.6	931.4	926.6
57.5°	879.1	883.9	879.1	879.1	869.6	869.6	860.1	855.4	841.1	831.5	822.0
60°	788.8	788.8	788.8	784.0	774.5	779.2	769.8	765.0	750.8	736.5	727.0
62.5°	698.5	703.2	703.2	698.5	689.0	689.0	684.2	679.5	665.2	651.0	636.8
65°	622.5	622.5	622.5	617.8	613.0	613.0	608.2	603.5	589.2	570.2	556.0
67.5°	551.2	546.5	546.5	546.5	541.8	537.0	532.2	527.5	513.2	498.9	479.9
70°	479.9	479.9	479.9	475.1	465.6	470.4	465.6	460.9	446.6	432.4	418.1
72.5°	413.4	413.4	408.6	403.9	403.9	399.1	399.1	394.4	380.1	361.1	346.9
75°	342.1	342.1	342.1	342.1	332.6	337.4	327.9	323.1	313.6	299.4	285.1
77.5°	280.4	280.4	280.4	275.6	270.9	270.9	266.1	261.4	247.1	237.6	218.6
80°	218.6	218.6	218.6	218.6	213.9	209.1	204.4	199.6	190.1	175.9	161.5
82.5°	161.5	161.5	156.8	156.8	156.8	152.0	147.2	142.5	133.0	123.5	114.0
85°	90.2	95.0	95.0	85.5	90.2	85.5	85.5	76.0	76.0	66.5	61.8
87.5°	33.2	28.5	28.5	28.5	28.5	28.5	28.5	23.8	23.8	23.8	19.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9
2.5°	3658.9	3654.1	3673.1	3673.1	3644.6	3658.9	3663.6	3654.1	3654.1	3658.9	3644.6
5°	3649.4	3639.9	3658.9	3663.6	3635.1	3649.4	3654.1	3644.6	3649.4	3654.1	3635.1
7.5°	3616.1	3616.1	3630.4	3635.1	3606.6	3620.9	3620.9	3611.4	3616.1	3616.1	3601.9
10°	3582.9	3568.6	3582.9	3582.9	3559.1	3563.9	3573.4	3568.6	3587.6	3611.4	3611.4
12.5°	3521.1	3506.9	3530.6	3530.6	3516.4	3535.4	3559.1	3573.4	3592.4	3601.9	3573.4
15°	3445.0	3449.8	3492.5	3525.9	3511.6	3540.1	3563.9	3554.4	3530.6	3502.1	3459.2
17.5°	3345.2	3331.0	3369.0	3388.0	3369.0	3378.5	3397.5	3378.5	3340.5	3316.8	3259.8
20°	3231.2	3193.2	3193.2	3183.8	3150.4	3150.4	3145.6	3112.4	3098.1	3083.9	3060.1
22.5°	3102.9	3060.1	3045.9	3017.4	2988.9	2984.1	2969.9	2936.6	2917.6	2908.1	2879.6
25°	2955.6	2917.6	2893.9	2865.4	2822.5	2813.0	2798.8	2765.5	2756.0	2741.8	2718.0
27.5°	2803.5	2756.0	2722.8	2694.2	2656.2	2651.5	2623.0	2599.2	2580.2	2570.8	2551.8
30°	2627.8	2575.5	2551.8	2513.8	2485.1	2475.6	2451.9	2418.6	2404.4	2394.9	2380.6
32.5°	2432.9	2390.1	2366.4	2333.1	2295.1	2299.9	2271.4	2242.9	2233.4	2223.9	2209.6
35°	2242.9	2200.1	2171.6	2143.0	2119.2	2109.8	2090.8	2067.0	2052.8	2048.0	2038.5
37.5°	2033.8	2000.5	1976.8	1948.2	1929.2	1919.8	1910.2	1886.5	1877.0	1877.0	1858.0
40°	1829.4	1800.9	1781.9	1767.6	1743.9	1739.1	1729.6	1715.4	1710.6	1705.9	1691.6
42.5°	1644.1	1606.1	1591.9	1582.4	1568.1	1558.6	1553.9	1544.4	1539.6	1534.9	1520.6
45°	1468.2	1435.0	1420.8	1411.2	1397.0	1392.2	1387.5	1373.2	1363.8	1354.2	1349.5
47.5°	1297.2	1273.5	1268.8	1245.0	1235.5	1226.0	1216.5	1207.0	1202.2	1197.5	1178.5
50°	1149.9	1135.6	1111.9	1097.6	1088.1	1083.4	1064.4	1050.1	1045.4	1040.6	1026.4
52.5°	1016.9	997.9	983.6	959.9	955.1	945.6	936.1	917.1	907.6	902.9	888.6
55°	898.1	883.9	864.9	845.9	831.5	826.8	812.5	793.5	784.0	774.5	765.0
57.5°	798.2	774.5	755.5	736.5	727.0	712.8	698.5	689.0	674.8	660.5	646.2
60°	703.2	684.2	660.5	641.5	632.0	622.5	603.5	589.2	575.0	560.8	546.5
62.5°	613.0	594.0	570.2	551.2	541.8	532.2	513.2	498.9	484.6	470.4	451.4
65°	532.2	513.2	494.1	475.1	465.6	456.1	437.1	418.1	403.9	389.6	370.6
67.5°	465.6	441.9	422.9	403.9	394.4	384.9	365.9	351.6	332.6	318.4	299.4
70°	394.4	375.4	361.1	342.1	332.6	323.1	304.1	285.1	270.9	256.6	237.6
72.5°	332.6	308.9	294.6	275.6	266.1	261.4	242.4	228.1	213.9	194.9	180.6
75°	266.1	247.1	228.1	213.9	204.4	199.6	180.6	166.2	152.0	137.8	123.5
77.5°	204.4	190.1	171.1	156.8	147.2	142.5	123.5	109.2	95.0	85.5	71.2
80°	152.0	133.0	123.5	109.2	104.5	95.0	85.5	71.2	61.8	47.5	38.0
82.5°	104.5	90.2	80.8	71.2	66.5	61.8	52.2	42.8	33.2	28.5	23.8
85°	57.0	47.5	42.8	38.0	33.2	33.2	28.5	23.8	19.0	14.2	9.5
87.5°	19.0	14.2	14.2	14.2	14.2	9.5	9.5	9.5	4.8	4.8	4.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9
2.5°	3654.1	3654.1	3654.1	3649.4	3649.4	3649.4	3644.6	3663.6	3644.6	3639.9	3654.1
5°	3649.4	3639.9	3639.9	3639.9	3639.9	3635.1	3630.4	3639.9	3625.6	3620.9	3620.9
7.5°	3620.9	3616.1	3616.1	3611.4	3606.6	3601.9	3597.1	3601.9	3587.6	3582.9	3582.9
10°	3625.6	3616.1	3616.1	3601.9	3592.4	3578.1	3563.9	3568.6	3549.6	3535.4	3535.4
12.5°	3568.6	3544.9	3530.6	3516.4	3506.9	3502.1	3483.0	3492.5	3473.5	3468.8	3468.8
15°	3440.2	3411.8	3388.0	3378.5	3378.5	3369.0	3354.8	3373.8	3364.2	3369.0	3392.8
17.5°	3240.8	3226.5	3212.2	3207.5	3212.2	3221.8	3231.2	3259.8	3259.8	3274.0	3297.8
20°	3064.9	3055.4	3064.9	3064.9	3069.6	3088.6	3107.6	3131.4	3140.9	3155.1	3188.5
22.5°	2893.9	2893.9	2903.4	2917.6	2912.9	2946.1	2950.9	2993.6	2993.6	3022.1	3050.6
25°	2727.5	2727.5	2737.0	2741.8	2751.2	2770.2	2789.2	2822.5	2832.1	2860.6	2884.4
27.5°	2566.0	2561.2	2561.2	2566.0	2575.5	2599.2	2608.8	2646.8	2661.0	2680.0	2703.8
30°	2385.4	2380.6	2390.1	2399.6	2394.9	2418.6	2432.9	2461.4	2470.9	2489.9	2509.0
32.5°	2214.4	2214.4	2214.4	2223.9	2223.9	2242.9	2242.9	2276.1	2276.1	2290.4	2309.4
35°	2038.5	2038.5	2043.2	2048.0	2052.8	2057.5	2062.2	2081.2	2086.0	2090.8	2100.2
37.5°	1872.2	1867.5	1872.2	1872.2	1862.8	1881.8	1881.8	1900.8	1886.5	1900.8	1905.5
40°	1701.1	1701.1	1696.4	1696.4	1696.4	1705.9	1696.4	1710.6	1701.1	1710.6	1705.9
42.5°	1525.4	1525.4	1515.9	1525.4	1520.6	1520.6	1520.6	1530.1	1515.9	1525.4	1530.1
45°	1349.5	1344.8	1344.8	1340.0	1340.0	1340.0	1344.8	1344.8	1340.0	1349.5	1349.5
47.5°	1178.5	1173.8	1173.8	1173.8	1173.8	1178.5	1164.1	1173.8	1164.1	1164.1	1164.1
50°	1031.1	1026.4	1021.6	1016.9	1012.1	1012.1	1007.4	1007.4	997.9	993.1	988.4
52.5°	888.6	883.9	874.4	874.4	869.6	864.9	850.6	850.6	836.4	831.5	831.5
55°	760.2	746.0	741.2	731.8	731.8	722.2	712.8	703.2	689.0	679.5	679.5
57.5°	641.5	627.2	617.8	613.0	608.2	598.8	579.8	575.0	556.0	551.2	546.5
60°	537.0	522.8	508.5	498.9	494.1	479.9	460.9	451.4	441.9	427.6	413.4
62.5°	437.1	422.9	403.9	399.1	389.6	375.4	361.1	346.9	337.4	323.1	313.6
65°	351.6	337.4	323.1	313.6	304.1	289.9	275.6	261.4	251.9	247.1	242.4
67.5°	285.1	266.1	251.9	247.1	237.6	228.1	213.9	209.1	199.6	199.6	199.6
70°	223.4	209.1	194.9	190.1	185.4	175.9	166.2	166.2	166.2	166.2	166.2
72.5°	166.2	156.8	142.5	137.8	133.0	128.2	118.8	123.5	118.8	118.8	118.8
75°	104.5	95.0	85.5	80.8	76.0	71.2	66.5	61.8	57.0	52.2	52.2
77.5°	57.0	47.5	42.8	38.0	38.0	33.2	28.5	28.5	23.8	23.8	23.8
80°	33.2	28.5	23.8	19.0	19.0	14.2	14.2	14.2	14.2	9.5	9.5
82.5°	19.0	14.2	9.5	9.5	9.5	9.5	4.8	4.8	4.8	4.8	4.8
85°	9.5	9.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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: P252414

CATALOG NUMBER: LE_6B60D010R EC6B60708027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9	3658.9
2.5°	3630.4	3644.6	3630.4	3644.6	3644.6	3644.6	3644.6	3630.4
5°	3606.6	3616.1	3601.9	3611.4	3616.1	3611.4	3611.4	3597.1
7.5°	3563.9	3573.4	3559.1	3573.4	3578.1	3573.4	3568.6	3559.1
10°	3521.1	3525.9	3511.6	3521.1	3530.6	3530.6	3525.9	3511.6
12.5°	3454.5	3468.8	3454.5	3464.0	3473.5	3478.2	3478.2	3464.0
15°	3378.5	3402.2	3392.8	3407.0	3421.2	3426.0	3426.0	3421.2
17.5°	3302.5	3326.2	3312.0	3335.8	3350.0	3359.5	3364.2	3354.8
20°	3193.2	3221.8	3212.2	3231.2	3250.2	3264.5	3264.5	3250.2
22.5°	3050.6	3088.6	3083.9	3098.1	3121.9	3126.6	3136.1	3126.6
25°	2893.9	2922.4	2917.6	2931.9	2960.4	2960.4	2965.1	2965.1
27.5°	2713.2	2741.8	2737.0	2746.5	2765.5	2770.2	2775.0	2765.5
30°	2518.5	2532.8	2532.8	2547.0	2561.2	2566.0	2566.0	2551.8
32.5°	2304.6	2323.6	2333.1	2328.4	2342.6	2352.1	2347.4	2347.4
35°	2109.8	2114.5	2119.2	2124.0	2128.8	2138.2	2128.8	2124.0
37.5°	1900.8	1915.0	1905.5	1915.0	1924.5	1919.8	1915.0	1915.0
40°	1710.6	1715.4	1705.9	1715.4	1720.1	1720.1	1720.1	1710.6
42.5°	1520.6	1530.1	1520.6	1530.1	1530.1	1530.1	1530.1	1525.4
45°	1330.5	1340.0	1340.0	1344.8	1344.8	1340.0	1340.0	1340.0
47.5°	1154.6	1164.1	1154.6	1164.1	1169.0	1159.4	1159.4	1159.4
50°	988.4	983.6	983.6	988.4	988.4	988.4	988.4	983.6
52.5°	817.2	822.0	822.0	822.0	826.8	822.0	826.8	826.8
55°	670.0	670.0	670.0	674.8	670.0	670.0	674.8	679.5
57.5°	537.0	532.2	527.5	527.5	532.2	527.5	527.5	527.5
60°	413.4	408.6	403.9	403.9	403.9	403.9	403.9	399.1
62.5°	308.9	308.9	308.9	313.6	313.6	313.6	313.6	318.4
65°	247.1	247.1	247.1	247.1	247.1	247.1	247.1	251.9
67.5°	199.6	199.6	199.6	204.4	204.4	204.4	204.4	204.4
70°	166.2	166.2	171.1	166.2	171.1	171.1	171.1	171.1
72.5°	114.0	114.0	114.0	114.0	114.0	109.2	114.0	109.2
75°	47.5	47.5	47.5	47.5	47.5	47.5	47.5	42.8
77.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
80°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	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)