

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: P252729

Luminaire Tested: **LE_6B60D010R EC6B60708040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7218.7 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

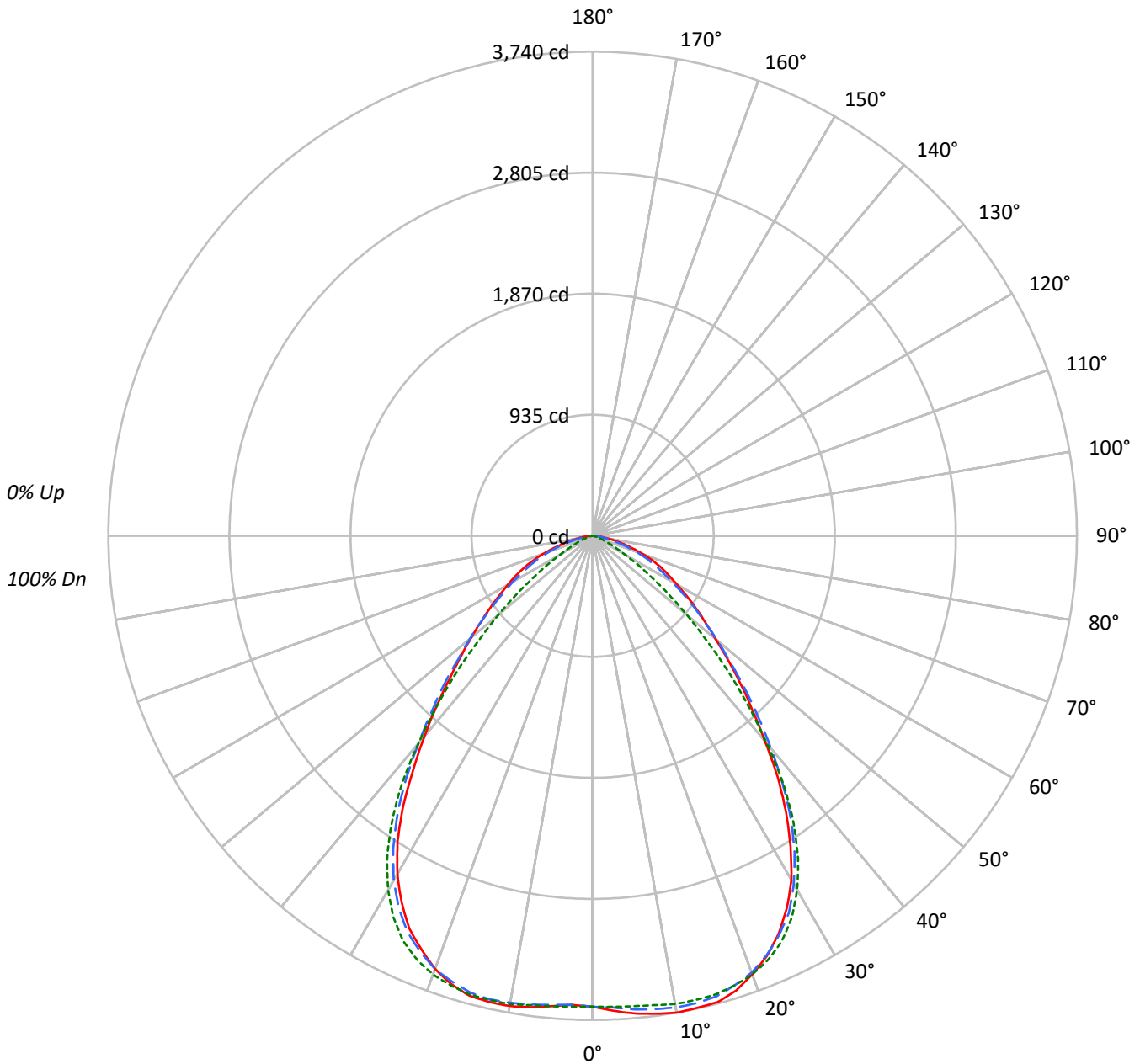
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	237280	237280	237280
5°	242568	238855	238855
10°	247757	243325	244346
15°	251898	247738	248426
20°	250363	250363	247148
25°	244397	248845	241071
30°	231356	237941	227092
35°	207314	215509	203212
40°	176122	178320	171736
45°	149025	136219	143821
50°	125835	96066	124272
55°	110581	62013	109421
60°	97991	36913	98670
65°	90539	22230	90539
70°	78494	12761	76529
75°	62236	7789	58354
80°	46400	5786	44484
85°	42368	3818	38550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.2	4.9
10°-20°	1036.3	14.4
20°-30°	1558.6	21.6
30°-40°	1638.7	22.7
40°-50°	1224.1	17.0
50°-60°	762.1	10.6
60°-70°	433.4	6.0
70°-80°	178.5	2.5
80°-90°	36.9	0.5
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°	2945.0	40.8
0°-40°	4583.7	63.5
0°-60°	6569.9	91.0
0°-90°	7218.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7218.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3637	3637	3637	3637	3637	
5°	3704	3673	3647	3637	3647	354
15°	3730	3683	3668	3652	3678	1049
25°	3395	3406	3457	3380	3349	1554
35°	2603	2670	2706	2629	2552	1615
45°	1615	1651	1476	1620	1559	1252
55°	972	952	545	936	962	874
65°	586	525	144	525	586	577
75°	247	196	31	190	232	268
85°	57	36	5	31	52	63
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°	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0
2.5°	3673.0	3667.9	3673.0	3662.6	3657.5	3657.5	3662.6	3652.4	3647.2	3652.4	3647.2
5°	3703.9	3693.5	3698.8	3693.5	3683.2	3683.2	3688.4	3673.0	3673.0	3678.1	3673.0
7.5°	3724.4	3724.4	3724.4	3714.1	3709.0	3703.9	3714.1	3698.8	3693.5	3693.5	3688.4
10°	3739.9	3734.8	3739.9	3729.5	3719.2	3714.1	3724.4	3714.1	3703.9	3714.1	3698.8
12.5°	3734.8	3734.8	3734.8	3729.5	3719.2	3714.1	3724.4	3709.0	3703.9	3709.0	3698.8
15°	3729.5	3714.1	3719.2	3714.1	3698.8	3698.8	3703.9	3688.4	3678.1	3693.5	3683.2
17.5°	3683.2	3673.0	3678.1	3667.9	3657.5	3652.4	3657.5	3652.4	3642.1	3652.4	3642.1
20°	3606.1	3606.1	3611.2	3601.0	3590.6	3585.5	3595.8	3585.5	3575.2	3590.6	3590.6
22.5°	3513.5	3513.5	3513.5	3508.4	3503.2	3503.2	3503.2	3498.1	3492.9	3503.2	3508.4
25°	3395.1	3390.0	3395.1	3400.4	3395.1	3390.0	3395.1	3395.1	3384.9	3405.5	3405.5
27.5°	3246.0	3246.0	3256.2	3251.1	3251.1	3246.0	3256.2	3256.2	3251.1	3266.6	3282.0
30°	3071.1	3060.8	3071.1	3071.1	3076.2	3076.2	3081.4	3081.4	3081.4	3096.9	3107.1
32.5°	2844.8	2849.9	2865.4	2860.1	2855.0	2870.5	2870.5	2880.8	2885.9	2896.2	2901.4
35°	2603.0	2608.1	2608.1	2613.2	2623.5	2613.2	2639.0	2633.9	2639.0	2659.5	2669.9
37.5°	2345.8	2330.4	2356.0	2345.8	2350.9	2350.9	2361.2	2366.4	2381.8	2407.5	2407.5
40°	2068.0	2073.1	2083.4	2088.5	2093.8	2093.8	2093.8	2109.1	2114.2	2145.1	2140.0
42.5°	1826.2	1826.2	1836.5	1841.6	1841.6	1841.6	1841.6	1857.0	1867.4	1877.6	1887.9
45°	1615.2	1599.9	1610.1	1610.1	1620.4	1615.2	1625.6	1635.9	1641.0	1656.5	1651.2
47.5°	1414.6	1409.5	1414.6	1419.8	1414.6	1419.8	1425.0	1430.1	1435.2	1435.2	1435.2
50°	1239.8	1239.8	1244.9	1250.0	1250.0	1250.0	1250.0	1255.2	1255.2	1265.5	1255.2
52.5°	1095.8	1100.9	1100.9	1095.8	1100.9	1100.9	1106.0	1106.0	1100.9	1100.9	1085.4
55°	972.2	967.1	972.2	967.1	972.2	972.2	967.1	967.1	962.0	956.9	951.6
57.5°	854.0	854.0	854.0	854.0	848.8	854.0	848.8	843.6	843.6	833.4	817.9
60°	751.0	751.0	751.0	751.0	751.0	745.9	751.0	745.9	735.6	725.4	704.8
62.5°	663.6	658.5	663.6	658.5	658.5	653.4	653.4	648.1	637.9	627.6	607.0
65°	586.5	591.6	586.5	586.5	581.2	576.1	576.1	571.0	555.6	545.2	524.8
67.5°	504.1	499.0	499.0	499.0	493.9	493.9	493.9	483.5	473.2	457.9	437.2
70°	411.5	411.5	411.5	406.4	406.4	401.2	401.2	396.1	385.9	375.5	349.8
72.5°	324.1	324.1	324.1	313.8	319.0	313.8	313.8	303.5	298.4	282.9	267.5
75°	246.9	246.9	241.8	241.8	236.6	231.5	231.5	226.4	221.2	210.9	195.5
77.5°	180.0	180.0	180.0	174.9	169.8	164.6	164.6	159.5	154.4	149.1	138.9
80°	123.5	123.5	123.5	123.5	118.4	113.1	113.1	108.0	108.0	102.9	92.6
82.5°	82.2	82.2	82.2	82.2	77.1	77.1	77.1	72.0	66.9	66.9	56.6
85°	56.6	56.6	51.5	51.5	51.5	51.5	46.2	46.2	41.1	36.0	36.0
87.5°	30.9	30.9	30.9	30.9	25.8	25.8	25.8	25.8	20.6	20.6	15.4
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°	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0
2.5°	3662.6	3662.6	3657.5	3642.1	3647.2	3642.1	3647.2	3642.1	3626.6	3642.1	3626.6
5°	3683.2	3688.4	3678.1	3657.5	3662.6	3657.5	3657.5	3652.4	3637.0	3647.2	3637.0
7.5°	3703.9	3698.8	3693.5	3673.0	3678.1	3673.0	3673.0	3662.6	3647.2	3657.5	3642.1
10°	3714.1	3714.1	3703.9	3683.2	3683.2	3678.1	3683.2	3678.1	3657.5	3673.0	3662.6
12.5°	3714.1	3709.0	3709.0	3683.2	3688.4	3683.2	3688.4	3678.1	3662.6	3673.0	3667.9
15°	3698.8	3698.8	3693.5	3667.9	3673.0	3673.0	3678.1	3667.9	3652.4	3667.9	3657.5
17.5°	3667.9	3667.9	3662.6	3642.1	3652.4	3652.4	3657.5	3647.2	3631.9	3642.1	3642.1
20°	3606.1	3611.2	3611.2	3595.8	3606.1	3606.1	3611.2	3606.1	3601.0	3606.1	3595.8
22.5°	3534.1	3544.4	3544.4	3528.9	3539.2	3539.2	3554.6	3549.5	3539.2	3544.4	3539.2
25°	3426.0	3436.4	3446.6	3436.4	3446.6	3446.6	3462.0	3456.9	3446.6	3456.9	3441.5
27.5°	3302.6	3307.8	3318.0	3307.8	3323.1	3318.0	3333.5	3328.2	3312.9	3328.2	3323.1
30°	3127.6	3148.2	3163.8	3148.2	3163.8	3163.8	3174.0	3168.9	3163.8	3158.5	3158.5
32.5°	2932.2	2952.8	2952.8	2947.6	2957.9	2957.9	2963.1	2952.8	2947.6	2952.8	2957.9
35°	2690.4	2700.8	2711.0	2705.9	2711.0	2716.1	2711.0	2716.1	2700.8	2705.9	2705.9
37.5°	2428.1	2438.4	2438.4	2422.9	2433.2	2433.2	2422.9	2422.9	2412.6	2422.9	2402.4
40°	2150.2	2140.0	2145.1	2134.9	2124.5	2124.5	2119.4	2098.9	2088.5	2093.8	2098.9
42.5°	1877.6	1877.6	1862.2	1836.5	1810.8	1810.8	1795.4	1785.0	1764.5	1774.8	1769.6
45°	1646.1	1620.4	1599.9	1558.8	1543.2	1533.0	1507.2	1481.5	1471.2	1476.4	1471.2
47.5°	1425.0	1404.4	1352.9	1296.4	1280.9	1265.5	1234.6	1203.8	1193.5	1183.1	1183.1
50°	1239.8	1203.8	1147.1	1085.4	1059.8	1034.0	992.9	962.0	941.4	946.5	946.5
52.5°	1070.0	1028.9	962.0	884.8	854.0	823.1	787.1	751.0	735.6	730.5	730.5
55°	920.9	874.5	807.6	720.2	694.5	658.5	612.1	571.0	550.4	545.2	555.6
57.5°	787.1	745.9	668.8	581.2	550.4	514.4	468.1	432.1	406.4	401.2	406.4
60°	679.0	622.5	555.6	473.2	432.1	401.2	349.8	319.0	293.2	282.9	288.1
62.5°	571.0	519.6	452.8	370.4	339.5	308.6	262.4	226.4	205.8	200.6	205.8
65°	488.8	437.2	375.5	303.5	272.6	241.8	200.6	164.6	149.1	144.0	149.1
67.5°	406.4	360.1	308.6	241.8	216.0	190.4	149.1	123.5	102.9	97.8	102.9
70°	329.2	288.1	236.6	190.4	164.6	144.0	113.1	87.5	72.0	66.9	72.0
72.5°	246.9	216.0	180.0	138.9	123.5	108.0	82.2	61.8	51.5	46.2	51.5
75°	180.0	154.4	128.6	97.8	87.5	77.1	56.6	41.1	36.0	30.9	36.0
77.5°	123.5	108.0	87.5	66.9	56.6	51.5	36.0	30.9	25.8	20.6	20.6
80°	82.2	72.0	56.6	46.2	41.1	36.0	25.8	20.6	15.4	15.4	15.4
82.5°	51.5	41.1	36.0	25.8	20.6	20.6	15.4	10.2	10.2	10.2	10.2
85°	30.9	25.8	20.6	15.4	10.2	10.2	5.1	5.1	5.1	5.1	5.1
87.5°	15.4	10.2	10.2	5.1	5.1	5.1	5.1	5.1	0.0	0.0	5.1
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°	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0
2.5°	3637.0	3626.6	3626.6	3631.9	3637.0	3642.1	3631.9	3626.6	3626.6	3642.1	3631.9
5°	3637.0	3631.9	3631.9	3631.9	3642.1	3647.2	3637.0	3631.9	3637.0	3652.4	3647.2
7.5°	3652.4	3642.1	3647.2	3647.2	3652.4	3662.6	3652.4	3647.2	3652.4	3667.9	3657.5
10°	3662.6	3652.4	3657.5	3652.4	3667.9	3673.0	3662.6	3657.5	3662.6	3683.2	3678.1
12.5°	3667.9	3662.6	3662.6	3657.5	3673.0	3678.1	3667.9	3662.6	3667.9	3683.2	3678.1
15°	3657.5	3652.4	3652.4	3652.4	3662.6	3673.0	3657.5	3652.4	3652.4	3667.9	3662.6
17.5°	3637.0	3626.6	3626.6	3626.6	3631.9	3637.0	3621.5	3616.4	3611.2	3626.6	3621.5
20°	3601.0	3590.6	3580.4	3580.4	3585.5	3585.5	3575.2	3559.8	3559.8	3565.0	3554.6
22.5°	3534.1	3528.9	3518.6	3513.5	3523.8	3518.6	3498.1	3482.6	3477.5	3482.6	3472.4
25°	3441.5	3431.2	3426.0	3420.9	3426.0	3420.9	3400.4	3379.8	3379.8	3379.8	3364.4
27.5°	3312.9	3302.6	3297.5	3297.5	3302.6	3292.2	3271.8	3251.1	3240.9	3240.9	3225.4
30°	3148.2	3148.2	3143.1	3138.0	3132.9	3132.9	3102.0	3081.4	3071.1	3076.2	3066.0
32.5°	2947.6	2942.5	2937.4	2921.9	2927.0	2921.9	2896.2	2880.8	2865.4	2855.0	2849.9
35°	2690.4	2690.4	2685.2	2685.2	2685.2	2680.1	2654.4	2639.0	2628.8	2623.5	2608.1
37.5°	2407.5	2402.4	2397.2	2397.2	2397.2	2397.2	2381.8	2366.4	2366.4	2361.2	2350.9
40°	2088.5	2093.8	2098.9	2093.8	2109.1	2124.5	2104.0	2093.8	2088.5	2104.0	2083.4
42.5°	1779.9	1774.8	1800.5	1805.6	1805.6	1831.4	1836.5	1841.6	1836.5	1846.8	1846.8
45°	1481.5	1476.4	1502.1	1512.4	1538.1	1569.0	1584.4	1610.1	1620.4	1630.8	1620.4
47.5°	1198.6	1219.1	1239.8	1265.5	1286.0	1337.5	1368.4	1394.1	1404.4	1419.8	1419.8
50°	962.0	982.5	1018.5	1039.1	1064.9	1126.6	1178.0	1214.0	1234.6	1250.0	1244.9
52.5°	740.8	776.8	823.1	843.6	879.6	951.6	1008.2	1049.4	1075.1	1090.6	1095.8
55°	571.0	601.9	648.1	679.0	715.0	792.2	864.2	910.5	936.2	956.9	967.1
57.5°	421.9	457.9	509.2	535.0	576.1	663.6	725.4	781.9	812.8	838.5	843.6
60°	308.6	344.6	391.0	421.9	463.0	550.4	622.5	673.9	709.9	730.5	740.8
62.5°	221.2	257.2	303.5	334.4	370.4	447.5	519.6	571.0	607.0	632.8	648.1
65°	159.5	195.5	241.8	267.5	298.4	370.4	437.2	488.8	524.8	555.6	565.9
67.5°	118.4	144.0	185.2	210.9	241.8	298.4	355.0	401.2	437.2	463.0	473.2
70°	87.5	108.0	144.0	159.5	180.0	231.5	277.8	319.0	349.8	370.4	380.6
72.5°	61.8	77.1	102.9	118.4	133.8	174.9	210.9	241.8	262.4	282.9	293.2
75°	41.1	51.5	72.0	82.2	92.6	123.5	149.1	174.9	190.4	205.8	210.9
77.5°	25.8	36.0	51.5	56.6	66.9	82.2	102.9	118.4	128.6	138.9	149.1
80°	15.4	20.6	30.9	36.0	41.1	56.6	66.9	77.1	87.5	97.8	102.9
82.5°	10.2	15.4	20.6	20.6	25.8	30.9	41.1	51.5	56.6	61.8	66.9
85°	5.1	5.1	10.2	10.2	15.4	15.4	20.6	25.8	30.9	36.0	41.1
87.5°	5.1	5.1	5.1	5.1	10.2	10.2	15.4	15.4	15.4	20.6	20.6
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: P252729

CATALOG NUMBER: LE_6B60D010R EC6B60708040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0
2.5°	3621.5	3637.0	3621.5	3631.9	3626.6	3626.6	3621.5	3626.6
5°	3637.0	3657.5	3637.0	3652.4	3642.1	3642.1	3642.1	3647.2
7.5°	3652.4	3673.0	3657.5	3673.0	3667.9	3662.6	3662.6	3673.0
10°	3667.9	3683.2	3673.0	3688.4	3683.2	3678.1	3678.1	3688.4
12.5°	3667.9	3688.4	3678.1	3693.5	3688.4	3683.2	3683.2	3688.4
15°	3652.4	3678.1	3662.6	3678.1	3673.0	3667.9	3667.9	3678.1
17.5°	3606.1	3626.6	3616.4	3626.6	3626.6	3621.5	3626.6	3631.9
20°	3544.4	3559.8	3549.5	3559.8	3559.8	3549.5	3554.6	3559.8
22.5°	3456.9	3472.4	3462.0	3472.4	3467.2	3462.0	3462.0	3456.9
25°	3348.9	3369.5	3354.0	3364.4	3354.0	3343.8	3343.8	3348.9
27.5°	3215.1	3230.6	3210.0	3220.2	3210.0	3199.8	3199.8	3194.5
30°	3040.2	3045.4	3030.0	3040.2	3030.0	3024.8	3014.5	3014.5
32.5°	2829.4	2834.5	2819.0	2819.0	2808.8	2808.8	2788.1	2803.6
35°	2582.4	2587.5	2582.4	2577.2	2561.9	2556.6	2551.5	2551.5
37.5°	2325.1	2325.1	2309.8	2304.6	2294.4	2284.0	2289.1	2273.8
40°	2062.9	2057.6	2042.2	2047.4	2042.2	2026.9	2021.6	2016.5
42.5°	1815.9	1815.9	1800.5	1805.6	1795.4	1790.1	1774.8	1779.9
45°	1599.9	1599.9	1584.4	1584.4	1579.2	1563.9	1569.0	1558.8
47.5°	1404.4	1404.4	1399.2	1399.2	1383.8	1378.6	1378.6	1378.6
50°	1234.6	1234.6	1234.6	1234.6	1229.5	1224.4	1219.1	1224.4
52.5°	1090.6	1100.9	1095.8	1095.8	1090.6	1085.4	1080.2	1080.2
55°	962.0	967.1	967.1	972.2	967.1	962.0	967.1	962.0
57.5°	848.8	859.1	859.1	859.1	859.1	859.1	854.0	848.8
60°	751.0	756.2	756.2	761.4	761.4	761.4	756.2	756.2
62.5°	653.4	663.6	668.8	668.8	673.9	668.8	668.8	668.8
65°	576.1	586.5	591.6	586.5	591.6	591.6	586.5	586.5
67.5°	483.5	493.9	493.9	493.9	493.9	499.0	493.9	493.9
70°	391.0	401.2	396.1	401.2	401.2	401.2	401.2	401.2
72.5°	298.4	303.5	308.6	308.6	313.8	308.6	308.6	308.6
75°	216.0	226.4	226.4	226.4	226.4	231.5	231.5	231.5
77.5°	154.4	159.5	159.5	164.6	164.6	164.6	164.6	169.8
80°	108.0	108.0	113.1	113.1	118.4	118.4	118.4	118.4
82.5°	72.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1
85°	41.1	46.2	46.2	46.2	46.2	51.5	51.5	51.5
87.5°	25.8	25.8	25.8	25.8	25.8	25.8	20.6	20.6
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)