

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: P252622

Luminaire Tested: **LE_6B60D010R EC6B60708027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708027 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE 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: 7117.5 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

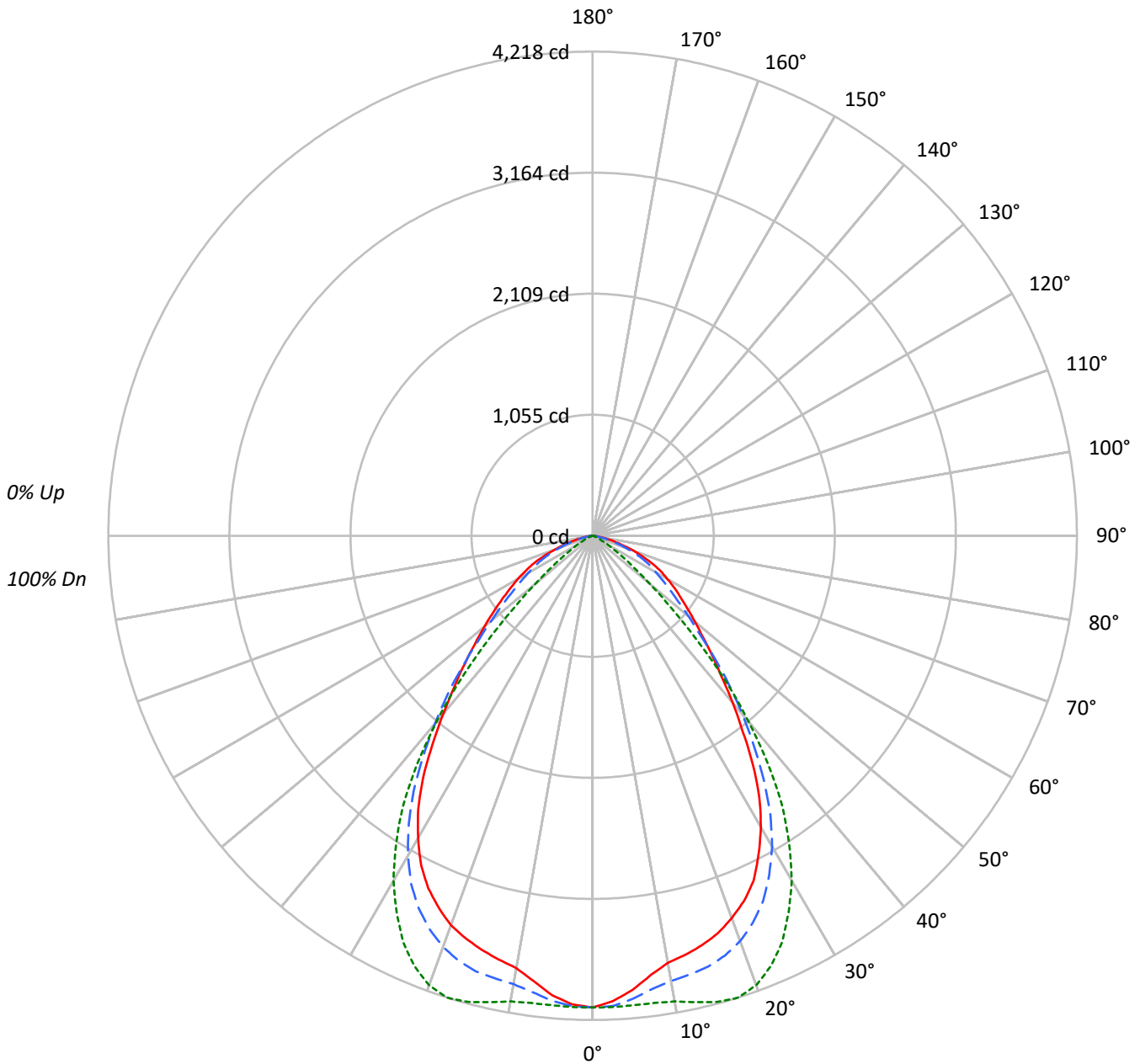
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	268087	268087	268087
5°	260093	268803	263204
10°	250202	272858	253342
15°	249311	283960	252202
20°	246052	289249	250668
25°	238695	281102	243828
30°	220810	261256	229044
35°	193726	229662	205076
40°	161431	180040	171949
45°	135887	118781	145085
50°	117644	65100	124881
55°	106453	34578	109148
60°	97939	17980	97939
65°	88749	9540	86541
70°	71570	5436	66152
75°	49103	3579	45499
80°	32123	1803	28554
85°	21334	3593	17816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.2	5.4
10°-20°	1108.0	15.6
20°-30°	1637.1	23.0
30°-40°	1653.6	23.2
40°-50°	1139.7	16.0
50°-60°	654.6	9.2
60°-70°	381.0	5.4
70°-80°	139.0	2.0
80°-90°	21.3	0.3
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°	3128.3	44.0
0°-40°	4781.9	67.2
0°-60°	6576.3	92.4
0°-90°	7117.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7117.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4109	4109	4109	4109	4109	
5°	3972	4048	4104	4066	4019	373
15°	3691	3886	4204	3929	3734	1040
25°	3316	3511	3905	3582	3387	1511
35°	2432	2599	2884	2717	2575	1510
45°	1473	1492	1287	1587	1572	1145
55°	936	822	304	855	960	843
65°	575	485	62	480	561	563
75°	195	157	14	152	180	219
85°	28	14	5	19	24	36
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°	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2
2.5°	4057.0	4061.8	4066.5	4061.8	4066.5	4085.5	4071.2	4080.8	4080.8	4085.5	4099.8
5°	3971.5	3971.5	3981.0	3976.2	3990.5	4009.5	3995.2	4009.5	4014.2	4023.8	4047.5
7.5°	3862.2	3862.2	3867.0	3867.0	3886.0	3905.0	3895.5	3914.5	3933.5	3952.5	3981.0
10°	3776.8	3786.2	3786.2	3791.0	3810.0	3833.8	3829.0	3852.8	3871.8	3900.2	3938.2
12.5°	3738.8	3743.5	3743.5	3753.0	3772.0	3795.8	3791.0	3814.8	3843.2	3876.5	3914.5
15°	3691.2	3700.8	3696.0	3705.5	3724.5	3748.2	3743.5	3767.2	3800.5	3833.8	3886.0
17.5°	3629.5	3634.2	3639.0	3639.0	3658.0	3677.0	3677.0	3700.8	3738.8	3776.8	3833.8
20°	3544.0	3553.5	3553.5	3558.2	3572.5	3601.0	3596.2	3620.0	3658.0	3696.0	3757.8
22.5°	3444.2	3449.0	3449.0	3453.8	3477.5	3491.8	3496.5	3515.5	3548.8	3591.5	3648.5
25°	3315.9	3320.6	3315.9	3330.1	3339.6	3368.2	3358.8	3382.5	3420.5	3453.8	3510.8
27.5°	3130.6	3140.1	3140.1	3144.9	3168.6	3192.4	3192.4	3216.1	3249.4	3273.1	3330.1
30°	2931.1	2945.4	2931.1	2954.9	2964.4	2983.4	2997.6	3011.9	3040.4	3073.6	3125.9
32.5°	2703.1	2698.4	2703.1	2712.6	2741.1	2755.4	2764.9	2779.1	2807.6	2836.1	2878.9
35°	2432.4	2441.9	2446.6	2465.6	2465.6	2489.4	2494.1	2503.6	2546.4	2565.4	2598.6
37.5°	2147.2	2156.8	2161.5	2171.0	2190.0	2199.5	2213.8	2228.0	2256.5	2289.8	2308.8
40°	1895.5	1895.5	1900.2	1909.8	1924.0	1928.8	1943.0	1962.0	1981.0	2009.5	2028.5
42.5°	1658.0	1662.8	1658.0	1667.5	1681.8	1700.8	1696.0	1719.8	1724.5	1743.5	1757.8
45°	1472.8	1472.8	1463.2	1472.8	1472.8	1491.8	1487.0	1496.5	1491.8	1501.2	1491.8
47.5°	1296.9	1301.6	1296.9	1301.6	1301.6	1301.6	1306.4	1296.9	1301.6	1287.4	1258.9
50°	1159.1	1163.9	1154.4	1159.1	1154.4	1149.6	1154.4	1140.1	1135.4	1116.4	1087.9
52.5°	1040.4	1035.6	1030.9	1030.9	1030.9	1026.1	1021.4	1007.1	992.9	973.9	940.6
55°	935.9	931.1	926.4	926.4	916.9	912.1	912.1	897.9	883.6	859.9	821.9
57.5°	840.9	836.1	831.4	831.4	826.6	817.1	817.1	802.9	783.9	755.4	722.1
60°	750.6	750.6	750.6	745.9	745.9	736.4	736.4	722.1	703.1	674.6	636.6
62.5°	669.9	665.1	665.1	665.1	665.1	660.4	655.6	646.1	627.1	598.6	565.4
65°	574.9	574.9	574.9	574.9	570.1	570.1	570.1	555.9	546.4	517.9	484.6
67.5°	470.2	470.2	470.2	470.2	465.5	470.2	470.2	460.8	451.2	422.8	394.2
70°	375.2	370.5	365.8	370.5	365.8	365.8	370.5	361.0	356.2	332.5	304.0
72.5°	275.5	280.2	275.5	275.5	275.5	270.8	275.5	270.8	261.2	242.2	223.2
75°	194.8	199.5	199.5	194.8	194.8	194.8	190.0	190.0	180.5	166.2	156.8
77.5°	133.0	133.0	133.0	133.0	128.2	128.2	128.2	123.5	118.8	109.2	99.8
80°	85.5	85.5	85.5	85.5	80.8	80.8	80.8	76.0	76.0	66.5	57.0
82.5°	52.2	52.2	52.2	52.2	52.2	52.2	47.5	47.5	42.8	38.0	33.2
85°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	23.8	23.8	19.0	14.2
87.5°	9.5	9.5	14.2	14.2	14.2	14.2	14.2	14.2	9.5	9.5	9.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2
2.5°	4090.2	4095.0	4095.0	4095.0	4109.2	4114.0	4099.8	4085.5	4114.0	4109.2	4118.8
5°	4042.8	4057.0	4066.5	4071.2	4085.5	4095.0	4080.8	4076.0	4099.8	4104.5	4109.2
7.5°	3985.8	4009.5	4033.2	4042.8	4061.8	4071.2	4066.5	4066.5	4095.0	4104.5	4104.5
10°	3947.8	3981.0	4009.5	4033.2	4057.0	4071.2	4071.2	4076.0	4109.2	4118.8	4128.2
12.5°	3938.2	3981.0	4019.0	4052.2	4071.2	4095.0	4099.8	4114.0	4147.2	4161.5	4161.5
15°	3914.5	3971.5	4019.0	4061.8	4090.2	4118.8	4128.2	4156.8	4194.8	4204.2	4213.8
17.5°	3871.8	3928.8	3985.8	4038.0	4076.0	4099.8	4128.2	4156.8	4204.2	4218.5	4223.2
20°	3795.8	3862.2	3919.2	3971.5	4009.5	4042.8	4071.2	4104.5	4147.2	4166.2	4171.0
22.5°	3681.8	3748.2	3805.2	3862.2	3900.2	3928.8	3957.2	3995.2	4038.0	4057.0	4057.0
25°	3544.0	3605.8	3667.5	3710.2	3748.2	3781.5	3795.8	3838.5	3881.2	3905.0	3905.0
27.5°	3368.2	3425.2	3482.2	3529.8	3553.5	3582.0	3605.8	3643.8	3677.0	3696.0	3715.0
30°	3144.9	3201.9	3254.1	3301.6	3330.1	3358.8	3382.5	3411.0	3444.2	3468.0	3472.8
32.5°	2902.6	2950.1	3002.4	3049.9	3078.4	3087.9	3111.6	3140.1	3168.6	3187.6	3192.4
35°	2636.6	2669.9	2703.1	2745.9	2774.4	2774.4	2798.1	2817.1	2840.9	2883.6	2874.1
37.5°	2323.0	2370.5	2394.4	2408.6	2427.6	2446.6	2451.4	2475.1	2503.6	2513.1	2527.4
40°	2028.5	2042.8	2057.0	2057.0	2076.0	2076.0	2076.0	2080.8	2109.2	2114.0	2133.0
42.5°	1734.0	1734.0	1719.8	1705.5	1710.2	1705.5	1681.8	1681.8	1696.0	1715.0	1715.0
45°	1458.5	1425.1	1382.4	1349.1	1325.4	1315.9	1287.4	1287.4	1282.6	1287.4	1306.4
47.5°	1225.6	1168.6	1097.4	1030.9	1007.1	988.1	945.4	926.4	916.9	921.6	931.1
50°	1030.9	969.1	888.4	807.6	764.9	741.1	688.9	655.6	650.9	641.4	660.4
52.5°	888.4	812.4	726.9	631.9	589.1	551.1	494.1	465.5	446.5	446.5	451.2
55°	764.9	684.1	589.1	494.1	451.2	422.8	365.8	327.8	308.8	304.0	318.2
57.5°	660.4	584.4	489.4	394.2	351.5	318.2	261.2	228.0	213.8	204.2	209.0
60°	579.6	503.6	408.5	318.2	280.2	242.2	194.8	156.8	137.8	137.8	142.5
62.5°	503.6	432.2	346.8	261.2	228.0	194.8	142.5	109.2	95.0	90.2	95.0
65°	427.5	361.0	289.8	218.5	185.2	156.8	114.0	85.5	66.5	61.8	66.5
67.5°	346.8	294.5	232.8	175.8	147.2	123.5	85.5	61.8	47.5	42.8	47.5
70°	270.8	223.2	175.8	128.2	109.2	90.2	61.8	47.5	33.2	28.5	33.2
72.5°	194.8	161.5	123.5	90.2	76.0	61.8	42.8	33.2	23.8	19.0	23.8
75°	133.0	109.2	80.8	57.0	47.5	42.8	28.5	19.0	14.2	14.2	14.2
77.5°	85.5	66.5	52.2	38.0	28.5	23.8	14.2	9.5	9.5	9.5	9.5
80°	47.5	38.0	28.5	19.0	14.2	14.2	9.5	9.5	4.8	4.8	4.8
82.5°	28.5	19.0	14.2	9.5	9.5	4.8	4.8	4.8	4.8	4.8	4.8
85°	14.2	9.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2
2.5°	4099.8	4104.5	4090.2	4109.2	4095.0	4114.0	4114.0	4095.0	4099.8	4090.2	4109.2
5°	4090.2	4090.2	4080.8	4095.0	4076.0	4095.0	4090.2	4057.0	4066.5	4047.5	4066.5
7.5°	4090.2	4080.8	4066.5	4080.8	4057.0	4071.2	4052.2	4019.0	4009.5	3985.8	3985.8
10°	4104.5	4090.2	4071.2	4076.0	4052.2	4057.0	4028.5	3981.0	3966.8	3938.2	3928.8
12.5°	4137.8	4123.5	4095.0	4104.5	4071.2	4071.2	4033.2	3976.2	3947.8	3909.8	3900.2
15°	4185.2	4161.5	4128.2	4133.0	4099.8	4080.8	4033.2	3966.8	3928.8	3876.5	3862.2
17.5°	4194.8	4171.0	4128.2	4128.2	4085.5	4061.8	4004.8	3928.8	3881.2	3829.0	3800.5
20°	4142.5	4118.8	4071.2	4066.5	4028.5	3995.2	3933.5	3857.5	3810.0	3753.0	3729.2
22.5°	4033.2	4004.8	3962.0	3957.2	3919.2	3900.2	3833.8	3757.8	3710.2	3653.2	3634.2
25°	3871.8	3857.5	3814.8	3810.0	3776.8	3753.0	3696.0	3624.8	3582.0	3525.0	3506.0
27.5°	3681.8	3667.5	3624.8	3624.8	3586.8	3572.5	3520.2	3453.8	3420.5	3368.2	3344.4
30°	3453.8	3434.8	3411.0	3406.2	3373.0	3358.8	3311.1	3249.4	3216.1	3173.4	3163.9
32.5°	3182.9	3168.6	3154.4	3149.6	3116.4	3102.1	3068.9	3007.1	2978.6	2940.6	2926.4
35°	2869.4	2859.9	2845.6	2840.9	2826.6	2812.4	2779.1	2731.6	2717.4	2688.9	2674.6
37.5°	2508.4	2517.9	2508.4	2508.4	2494.1	2498.9	2470.4	2441.9	2427.6	2408.6	2399.1
40°	2118.8	2137.8	2152.0	2152.0	2147.2	2166.2	2161.5	2137.8	2133.0	2123.5	2118.8
42.5°	1724.5	1734.0	1762.5	1781.5	1776.8	1824.2	1829.0	1848.0	1862.2	1852.8	1857.5
45°	1311.1	1339.6	1377.6	1396.6	1420.4	1482.2	1515.5	1553.5	1586.8	1605.8	1601.0
47.5°	945.4	978.6	1021.4	1049.9	1092.6	1168.6	1254.1	1301.6	1349.1	1372.9	1396.6
50°	684.1	717.4	769.6	812.4	840.9	945.4	1035.6	1097.4	1149.6	1182.9	1206.6
52.5°	479.9	517.9	574.9	612.9	655.6	755.4	859.9	931.1	988.1	1030.9	1054.6
55°	332.5	375.2	427.5	465.5	513.1	617.6	717.4	793.4	855.1	893.1	921.6
57.5°	232.8	270.8	323.0	356.2	403.8	503.6	603.4	679.4	741.1	779.1	812.4
60°	156.8	194.8	247.0	280.2	318.2	418.0	508.4	589.1	646.1	684.1	717.4
62.5°	109.2	142.5	194.8	228.0	261.2	346.8	432.2	503.6	560.6	603.4	631.9
65°	85.5	114.0	156.8	185.2	218.5	289.8	361.0	422.8	479.9	522.6	541.6
67.5°	61.8	90.2	123.5	147.2	171.0	232.8	294.5	342.0	394.2	427.5	451.2
70°	42.8	61.8	90.2	109.2	128.2	175.8	223.2	266.0	304.0	327.8	346.8
72.5°	33.2	42.8	61.8	76.0	90.2	123.5	161.5	194.8	223.2	242.2	261.2
75°	19.0	28.5	42.8	52.2	61.8	85.5	109.2	133.0	152.0	166.2	175.8
77.5°	9.5	14.2	23.8	28.5	38.0	52.2	71.2	85.5	99.8	109.2	118.8
80°	9.5	9.5	14.2	14.2	19.0	28.5	38.0	47.5	57.0	66.5	71.2
82.5°	4.8	4.8	9.5	9.5	9.5	14.2	19.0	28.5	33.2	38.0	42.8
85°	4.8	4.8	4.8	4.8	4.8	9.5	9.5	14.2	19.0	23.8	23.8
87.5°	0.0	0.0	4.8	4.8	4.8	4.8	4.8	9.5	9.5	9.5	14.2
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: P252622

CATALOG NUMBER: LE_6B60D010R EC6B60708027 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2	4109.2
2.5°	4095.0	4104.5	4099.8	4109.2	4095.0	4090.2	4099.8	4085.5
5°	4042.8	4047.5	4042.8	4042.8	4033.2	4023.8	4033.2	4019.0
7.5°	3962.0	3962.0	3947.8	3947.8	3928.8	3919.2	3919.2	3914.5
10°	3895.5	3881.2	3867.0	3871.8	3843.2	3833.8	3829.0	3824.2
12.5°	3862.2	3852.8	3829.0	3829.0	3800.5	3791.0	3786.2	3781.5
15°	3824.2	3805.2	3786.2	3781.5	3757.8	3748.2	3743.5	3734.0
17.5°	3757.8	3743.5	3719.8	3719.8	3696.0	3691.2	3681.8	3677.0
20°	3686.5	3667.5	3648.5	3648.5	3620.0	3620.0	3605.8	3610.5
22.5°	3586.8	3572.5	3553.5	3553.5	3529.8	3525.0	3510.8	3506.0
25°	3468.0	3449.0	3434.8	3430.0	3411.0	3401.5	3396.8	3387.2
27.5°	3311.1	3296.9	3282.6	3273.1	3249.4	3244.6	3230.4	3235.1
30°	3116.4	3106.9	3102.1	3092.6	3064.1	3054.6	3054.6	3040.4
32.5°	2902.6	2888.4	2878.9	2864.6	2840.9	2836.1	2821.9	2826.6
35°	2641.4	2622.4	2608.1	2612.9	2584.4	2579.6	2570.1	2574.9
37.5°	2370.5	2351.5	2332.5	2327.8	2304.0	2304.0	2289.8	2289.8
40°	2090.2	2071.2	2061.8	2061.8	2033.2	2038.0	2023.8	2019.0
42.5°	1838.5	1819.5	1814.8	1810.0	1795.8	1791.0	1776.8	1781.5
45°	1601.0	1596.2	1596.2	1586.8	1572.5	1567.8	1572.5	1572.5
47.5°	1391.9	1396.6	1391.9	1391.9	1382.4	1391.9	1382.4	1387.1
50°	1216.1	1225.6	1225.6	1225.6	1220.9	1225.6	1225.6	1230.4
52.5°	1068.9	1083.1	1078.4	1083.1	1078.4	1087.9	1083.1	1087.9
55°	940.6	950.1	954.9	959.6	959.6	959.6	959.6	959.6
57.5°	821.9	836.1	840.9	845.6	845.6	855.1	845.6	845.6
60°	726.9	741.1	745.9	750.6	750.6	755.4	745.9	750.6
62.5°	641.4	655.6	655.6	660.4	660.4	660.4	650.9	655.6
65°	555.9	560.6	565.4	565.4	560.6	560.6	555.9	560.6
67.5°	460.8	465.5	460.8	460.8	456.0	456.0	446.5	451.2
70°	356.2	356.2	361.0	356.2	351.5	356.2	351.5	346.8
72.5°	266.0	266.0	266.0	261.2	261.2	256.5	261.2	261.2
75°	180.5	180.5	185.2	185.2	185.2	185.2	180.5	180.5
77.5°	118.8	118.8	118.8	118.8	123.5	118.8	118.8	118.8
80°	76.0	76.0	80.8	80.8	76.0	76.0	76.0	76.0
82.5°	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
85°	28.5	28.5	28.5	28.5	23.8	23.8	23.8	23.8
87.5°	14.2	14.2	14.2	14.2	14.2	14.2	9.5	9.5
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)