

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: P252610

Luminaire Tested: **LE_6B50D010R EC6B30508030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252610
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_6B50D010R EC6B30508030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE 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: 6660.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

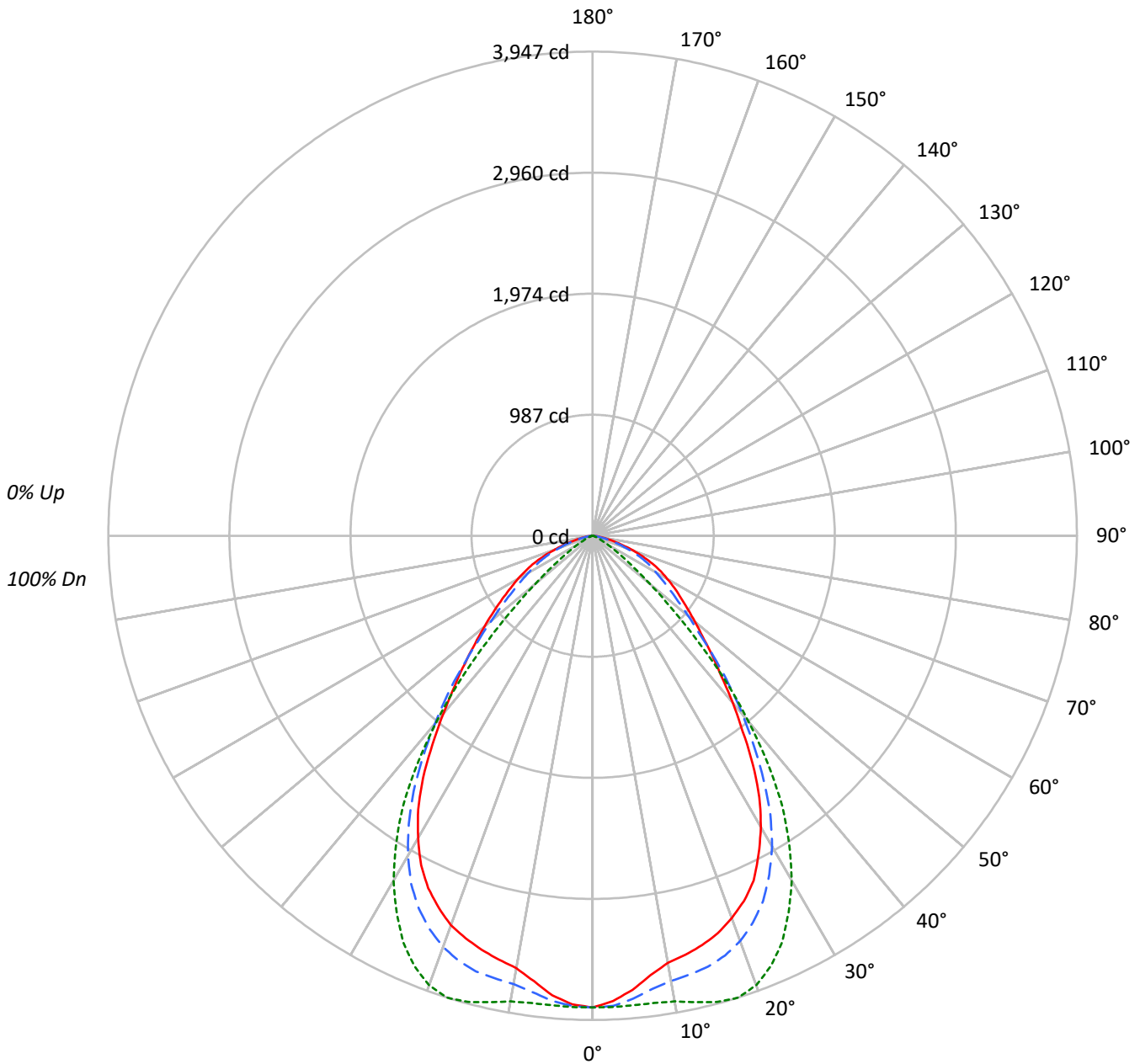
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	250857	250857	250857
5°	243373	251533	246294
10°	234117	255316	237059
15°	233290	265710	235992
20°	230229	270664	234554
25°	223355	263033	228157
30°	206624	244457	214323
35°	181270	214896	191894
40°	151050	168466	160895
45°	127140	111141	135758
50°	110083	60908	116863
55°	99617	32360	102142
60°	91650	16819	91650
65°	83037	8923	80968
70°	66973	5074	61899
75°	45927	3378	42575
80°	30056	1691	26713
85°	19911	3368	16618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.6	5.4
10°-20°	1036.8	15.6
20°-30°	1531.9	23.0
30°-40°	1547.3	23.2
40°-50°	1066.5	16.0
50°-60°	612.5	9.2
60°-70°	356.5	5.4
70°-80°	130.1	2.0
80°-90°	19.9	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°	2927.2	44.0
0°-40°	4474.5	67.2
0°-60°	6153.5	92.4
0°-90°	6660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6660.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3845	3845	3845	3845	3845	
5°	3716	3787	3841	3805	3761	349
15°	3454	3636	3934	3676	3494	973
25°	3103	3285	3654	3352	3170	1414
35°	2276	2432	2698	2543	2409	1413
45°	1378	1396	1205	1485	1471	1072
55°	876	769	284	800	898	788
65°	538	453	58	449	524	527
75°	182	147	13	142	169	205
85°	27	13	4	18	22	34
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°	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	3796.2	3800.8	3805.1	3800.8	3805.1	3822.9	3809.6	3818.5	3818.5	3822.9	3836.2
5°	3716.2	3716.2	3725.1	3720.6	3734.0	3751.8	3738.5	3751.8	3756.2	3765.1	3787.4
7.5°	3614.0	3614.0	3618.5	3618.5	3636.2	3654.0	3645.1	3662.9	3680.6	3698.5	3725.1
10°	3534.0	3542.9	3542.9	3547.4	3565.1	3587.4	3582.9	3605.1	3622.9	3649.5	3685.1
12.5°	3498.4	3502.9	3502.9	3511.8	3529.5	3551.8	3547.4	3569.5	3596.2	3627.4	3662.9
15°	3454.0	3462.9	3458.4	3467.2	3485.1	3507.2	3502.9	3525.1	3556.2	3587.4	3636.2
17.5°	3396.1	3400.6	3405.1	3405.1	3422.9	3440.6	3440.6	3462.9	3498.4	3534.0	3587.4
20°	3316.1	3325.0	3325.0	3329.5	3342.9	3369.5	3365.0	3387.2	3422.9	3458.4	3516.2
22.5°	3222.9	3227.2	3227.2	3231.8	3253.9	3267.2	3271.8	3289.5	3320.6	3360.6	3414.0
25°	3102.8	3107.2	3102.8	3116.1	3125.0	3151.8	3142.8	3165.0	3200.6	3231.8	3285.0
27.5°	2929.4	2938.4	2938.4	2942.8	2965.0	2987.2	2987.2	3009.5	3040.5	3062.8	3116.1
30°	2742.8	2756.0	2742.8	2765.0	2773.9	2791.6	2805.0	2818.2	2845.0	2876.1	2925.0
32.5°	2529.4	2524.9	2529.4	2538.2	2564.9	2578.2	2587.1	2600.5	2627.1	2653.9	2693.9
35°	2276.0	2284.9	2289.2	2307.1	2307.1	2329.4	2333.8	2342.6	2382.6	2400.5	2431.5
37.5°	2009.2	2018.1	2022.6	2031.5	2049.2	2058.1	2071.5	2084.9	2111.5	2142.6	2160.4
40°	1773.6	1773.6	1778.1	1787.0	1800.4	1804.8	1818.1	1835.9	1853.6	1880.4	1898.1
42.5°	1551.4	1555.9	1551.4	1560.2	1573.6	1591.4	1587.0	1609.1	1613.6	1631.4	1644.8
45°	1378.0	1378.0	1369.1	1378.0	1378.0	1395.8	1391.4	1400.2	1395.8	1404.8	1395.8
47.5°	1213.5	1218.0	1213.5	1218.0	1218.0	1218.0	1222.5	1213.5	1218.0	1204.6	1178.0
50°	1084.6	1089.1	1080.2	1084.6	1080.2	1075.8	1080.2	1066.9	1062.4	1044.6	1018.0
52.5°	973.5	969.1	964.6	964.6	964.6	960.1	955.8	942.4	929.0	911.2	880.1
55°	875.8	871.2	866.9	866.9	857.9	853.5	853.5	840.1	826.9	804.6	769.0
57.5°	786.8	782.4	777.9	777.9	773.5	764.6	764.6	751.2	733.5	706.8	675.6
60°	702.4	702.4	702.4	697.9	697.9	689.0	689.0	675.6	657.9	631.2	595.6
62.5°	626.8	622.4	622.4	622.4	622.4	617.9	613.5	604.5	586.8	560.1	529.0
65°	537.9	537.9	537.9	537.9	533.4	533.4	533.4	520.1	511.2	484.5	453.4
67.5°	440.1	440.1	440.1	440.1	435.6	440.1	440.1	431.2	422.2	395.6	369.0
70°	351.1	346.8	342.2	346.8	342.2	342.2	346.8	337.9	333.4	311.1	284.5
72.5°	257.9	262.2	257.9	257.9	257.9	253.4	257.9	253.4	244.5	226.8	208.9
75°	182.2	186.8	186.8	182.2	182.2	182.2	177.8	177.8	168.9	155.6	146.8
77.5°	124.5	124.5	124.5	124.5	120.0	120.0	120.0	115.6	111.1	102.2	93.4
80°	80.0	80.0	80.0	80.0	75.6	75.6	75.6	71.1	71.1	62.2	53.4
82.5°	48.9	48.9	48.9	48.9	48.9	48.9	44.5	44.5	40.0	35.5	31.1
85°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	22.2	22.2	17.8	13.4
87.5°	8.9	8.9	13.4	13.4	13.4	13.4	13.4	13.4	8.9	8.9	8.9
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°	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	3827.4	3831.9	3831.9	3831.9	3845.1	3849.6	3836.2	3822.9	3849.6	3845.1	3854.0
5°	3782.9	3796.2	3805.1	3809.6	3822.9	3831.9	3818.5	3814.0	3836.2	3840.8	3845.1
7.5°	3729.6	3751.8	3774.0	3782.9	3800.8	3809.6	3805.1	3805.1	3831.9	3840.8	3840.8
10°	3694.0	3725.1	3751.8	3774.0	3796.2	3809.6	3809.6	3814.0	3845.1	3854.0	3862.9
12.5°	3685.1	3725.1	3760.8	3791.8	3809.6	3831.9	3836.2	3849.6	3880.8	3894.0	3894.0
15°	3662.9	3716.2	3760.8	3800.8	3827.4	3854.0	3862.9	3889.6	3925.1	3934.0	3943.0
17.5°	3622.9	3676.2	3729.6	3778.5	3814.0	3836.2	3862.9	3889.6	3934.0	3947.4	3951.9
20°	3551.8	3614.0	3667.4	3716.2	3751.8	3782.9	3809.6	3840.8	3880.8	3898.5	3903.0
22.5°	3445.1	3507.2	3560.6	3614.0	3649.5	3676.2	3702.9	3738.5	3778.5	3796.2	3796.2
25°	3316.1	3374.0	3431.8	3471.8	3507.2	3538.4	3551.8	3591.8	3631.8	3654.0	3654.0
27.5°	3151.8	3205.0	3258.4	3302.9	3325.0	3351.8	3374.0	3409.5	3440.6	3458.4	3476.2
30°	2942.8	2996.1	3045.0	3089.5	3116.1	3142.8	3165.0	3191.8	3222.9	3245.0	3249.5
32.5°	2716.0	2760.5	2809.4	2853.9	2880.5	2889.4	2911.6	2938.4	2965.0	2982.8	2987.2
35°	2467.1	2498.2	2529.4	2569.4	2596.0	2596.0	2618.2	2636.0	2658.2	2698.2	2689.4
37.5°	2173.8	2218.1	2240.4	2253.8	2271.5	2289.2	2293.8	2316.0	2342.6	2351.5	2364.9
40°	1898.1	1911.5	1924.8	1924.8	1942.6	1942.6	1942.6	1947.0	1973.8	1978.1	1995.9
42.5°	1622.5	1622.5	1609.1	1595.9	1600.2	1595.9	1573.6	1573.6	1587.0	1604.8	1604.8
45°	1364.8	1333.6	1293.6	1262.5	1240.2	1231.4	1204.6	1204.6	1200.2	1204.6	1222.5
47.5°	1146.9	1093.5	1026.9	964.6	942.4	924.6	884.6	866.9	857.9	862.4	871.2
50°	964.6	906.9	831.2	755.8	715.6	693.5	644.6	613.5	609.0	600.1	617.9
52.5°	831.2	760.1	680.1	591.2	551.2	515.6	462.2	435.6	417.9	417.9	422.2
55°	715.6	640.1	551.2	462.2	422.2	395.6	342.2	306.8	289.0	284.5	297.9
57.5°	617.9	546.8	457.9	369.0	329.0	297.9	244.5	213.4	200.0	191.1	195.6
60°	542.4	471.2	382.2	297.9	262.2	226.8	182.2	146.8	128.9	128.9	133.4
62.5°	471.2	404.5	324.5	244.5	213.4	182.2	133.4	102.2	88.9	84.5	88.9
65°	400.1	337.9	271.1	204.5	173.4	146.8	106.6	80.0	62.2	57.8	62.2
67.5°	324.5	275.6	217.9	164.5	137.8	115.6	80.0	57.8	44.5	40.0	44.5
70°	253.4	208.9	164.5	120.0	102.2	84.5	57.8	44.5	31.1	26.6	31.1
72.5°	182.2	151.1	115.6	84.5	71.1	57.8	40.0	31.1	22.2	17.8	22.2
75°	124.5	102.2	75.6	53.4	44.5	40.0	26.6	17.8	13.4	13.4	13.4
77.5°	80.0	62.2	48.9	35.5	26.6	22.2	13.4	8.9	8.9	8.9	8.9
80°	44.5	35.5	26.6	17.8	13.4	13.4	8.9	8.9	4.5	4.5	4.5
82.5°	26.6	17.8	13.4	8.9	8.9	4.5	4.5	4.5	4.5	4.5	4.5
85°	13.4	8.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	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°	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	3836.2	3840.8	3827.4	3845.1	3831.9	3849.6	3849.6	3831.9	3836.2	3827.4	3845.1
5°	3827.4	3827.4	3818.5	3831.9	3814.0	3831.9	3827.4	3796.2	3805.1	3787.4	3805.1
7.5°	3827.4	3818.5	3805.1	3818.5	3796.2	3809.6	3791.8	3760.8	3751.8	3729.6	3729.6
10°	3840.8	3827.4	3809.6	3814.0	3791.8	3796.2	3769.6	3725.1	3711.8	3685.1	3676.2
12.5°	3871.9	3858.5	3831.9	3840.8	3809.6	3809.6	3774.0	3720.6	3694.0	3658.5	3649.5
15°	3916.2	3894.0	3862.9	3867.4	3836.2	3818.5	3774.0	3711.8	3676.2	3627.4	3614.0
17.5°	3925.1	3903.0	3862.9	3862.9	3822.9	3800.8	3747.4	3676.2	3631.8	3582.9	3556.2
20°	3876.2	3854.0	3809.6	3805.1	3769.6	3738.5	3680.6	3609.5	3565.1	3511.8	3489.5
22.5°	3774.0	3747.4	3707.4	3702.9	3667.4	3649.5	3587.4	3516.2	3471.8	3418.4	3400.6
25°	3622.9	3609.5	3569.5	3565.1	3534.0	3511.8	3458.4	3391.8	3351.8	3298.4	3280.6
27.5°	3445.1	3431.8	3391.8	3391.8	3356.1	3342.9	3294.0	3231.8	3200.6	3151.8	3129.5
30°	3231.8	3213.9	3191.8	3187.2	3156.1	3142.8	3098.4	3040.5	3009.5	2969.4	2960.5
32.5°	2978.4	2965.0	2951.6	2947.2	2916.1	2902.8	2871.6	2813.9	2787.1	2751.6	2738.2
35°	2684.9	2676.0	2662.8	2658.2	2644.9	2631.6	2600.5	2556.0	2542.8	2516.0	2502.6
37.5°	2347.1	2356.0	2347.1	2347.1	2333.8	2338.2	2311.5	2284.9	2271.5	2253.8	2244.9
40°	1982.6	2000.4	2013.8	2013.8	2009.2	2027.0	2022.6	2000.4	1995.9	1987.0	1982.6
42.5°	1613.6	1622.5	1649.2	1667.0	1662.5	1707.0	1711.4	1729.2	1742.5	1733.6	1738.1
45°	1226.9	1253.6	1289.1	1306.9	1329.1	1386.9	1418.0	1453.6	1484.8	1502.5	1498.0
47.5°	884.6	915.8	955.8	982.4	1022.4	1093.5	1173.5	1218.0	1262.5	1284.6	1306.9
50°	640.1	671.2	720.1	760.1	786.8	884.6	969.1	1026.9	1075.8	1106.9	1129.1
52.5°	449.0	484.5	537.9	573.5	613.5	706.8	804.6	871.2	924.6	964.6	986.9
55°	311.1	351.1	400.1	435.6	480.1	577.9	671.2	742.4	800.1	835.8	862.4
57.5°	217.9	253.4	302.2	333.4	377.9	471.2	564.5	635.6	693.5	729.0	760.1
60°	146.8	182.2	231.1	262.2	297.9	391.1	475.6	551.2	604.5	640.1	671.2
62.5°	102.2	133.4	182.2	213.4	244.5	324.5	404.5	471.2	524.5	564.5	591.2
65°	80.0	106.6	146.8	173.4	204.5	271.1	337.9	395.6	449.0	489.0	506.8
67.5°	57.8	84.5	115.6	137.8	160.0	217.9	275.6	320.0	369.0	400.1	422.2
70°	40.0	57.8	84.5	102.2	120.0	164.5	208.9	248.9	284.5	306.8	324.5
72.5°	31.1	40.0	57.8	71.1	84.5	115.6	151.1	182.2	208.9	226.8	244.5
75°	17.8	26.6	40.0	48.9	57.8	80.0	102.2	124.5	142.2	155.6	164.5
77.5°	8.9	13.4	22.2	26.6	35.5	48.9	66.6	80.0	93.4	102.2	111.1
80°	8.9	8.9	13.4	13.4	17.8	26.6	35.5	44.5	53.4	62.2	66.6
82.5°	4.5	4.5	8.9	8.9	8.9	13.4	17.8	26.6	31.1	35.5	40.0
85°	4.5	4.5	4.5	4.5	4.5	8.9	8.9	13.4	17.8	22.2	22.2
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	4.5	8.9	8.9	8.9	13.4
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: P252610

CATALOG NUMBER: LE_6B50D010R EC6B30508030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	3831.9	3840.8	3836.2	3845.1	3831.9	3827.4	3836.2	3822.9
5°	3782.9	3787.4	3782.9	3782.9	3774.0	3765.1	3774.0	3760.8
7.5°	3707.4	3707.4	3694.0	3694.0	3676.2	3667.4	3667.4	3662.9
10°	3645.1	3631.8	3618.5	3622.9	3596.2	3587.4	3582.9	3578.4
12.5°	3614.0	3605.1	3582.9	3582.9	3556.2	3547.4	3542.9	3538.4
15°	3578.4	3560.6	3542.9	3538.4	3516.2	3507.2	3502.9	3494.0
17.5°	3516.2	3502.9	3480.6	3480.6	3458.4	3454.0	3445.1	3440.6
20°	3449.5	3431.8	3414.0	3414.0	3387.2	3387.2	3374.0	3378.4
22.5°	3356.1	3342.9	3325.0	3325.0	3302.9	3298.4	3285.0	3280.6
25°	3245.0	3227.2	3213.9	3209.5	3191.8	3182.8	3178.4	3169.5
27.5°	3098.4	3085.0	3071.6	3062.8	3040.5	3036.1	3022.8	3027.2
30°	2916.1	2907.2	2902.8	2893.9	2867.2	2858.2	2858.2	2845.0
32.5°	2716.0	2702.8	2693.9	2680.5	2658.2	2653.9	2640.5	2644.9
35°	2471.6	2453.8	2440.5	2444.9	2418.2	2413.8	2404.9	2409.4
37.5°	2218.1	2200.4	2182.6	2178.1	2156.0	2156.0	2142.6	2142.6
40°	1955.9	1938.1	1929.2	1929.2	1902.6	1907.0	1893.6	1889.2
42.5°	1720.4	1702.5	1698.1	1693.6	1680.2	1675.9	1662.5	1667.0
45°	1498.0	1493.6	1493.6	1484.8	1471.4	1466.9	1471.4	1471.4
47.5°	1302.5	1306.9	1302.5	1302.5	1293.6	1302.5	1293.6	1298.0
50°	1138.0	1146.9	1146.9	1146.9	1142.4	1146.9	1146.9	1151.4
52.5°	1000.1	1013.5	1009.1	1013.5	1009.1	1018.0	1013.5	1018.0
55°	880.1	889.0	893.5	898.0	898.0	898.0	898.0	898.0
57.5°	769.0	782.4	786.8	791.2	791.2	800.1	791.2	791.2
60°	680.1	693.5	697.9	702.4	702.4	706.8	697.9	702.4
62.5°	600.1	613.5	613.5	617.9	617.9	617.9	609.0	613.5
65°	520.1	524.5	529.0	529.0	524.5	524.5	520.1	524.5
67.5°	431.2	435.6	431.2	431.2	426.8	426.8	417.9	422.2
70°	333.4	333.4	337.9	333.4	329.0	333.4	329.0	324.5
72.5°	248.9	248.9	248.9	244.5	244.5	240.0	244.5	244.5
75°	168.9	168.9	173.4	173.4	173.4	173.4	168.9	168.9
77.5°	111.1	111.1	111.1	111.1	115.6	111.1	111.1	111.1
80°	71.1	71.1	75.6	75.6	71.1	71.1	71.1	71.1
82.5°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
85°	26.6	26.6	26.6	26.6	22.2	22.2	22.2	22.2
87.5°	13.4	13.4	13.4	13.4	13.4	13.4	8.9	8.9
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)