

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: P252630

Luminaire Tested: **LE_6B60D010R EC6B60709035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252630
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 EC6B60709035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6446.2 lumens
Efficiency: N/A
Efficacy: 103.1 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

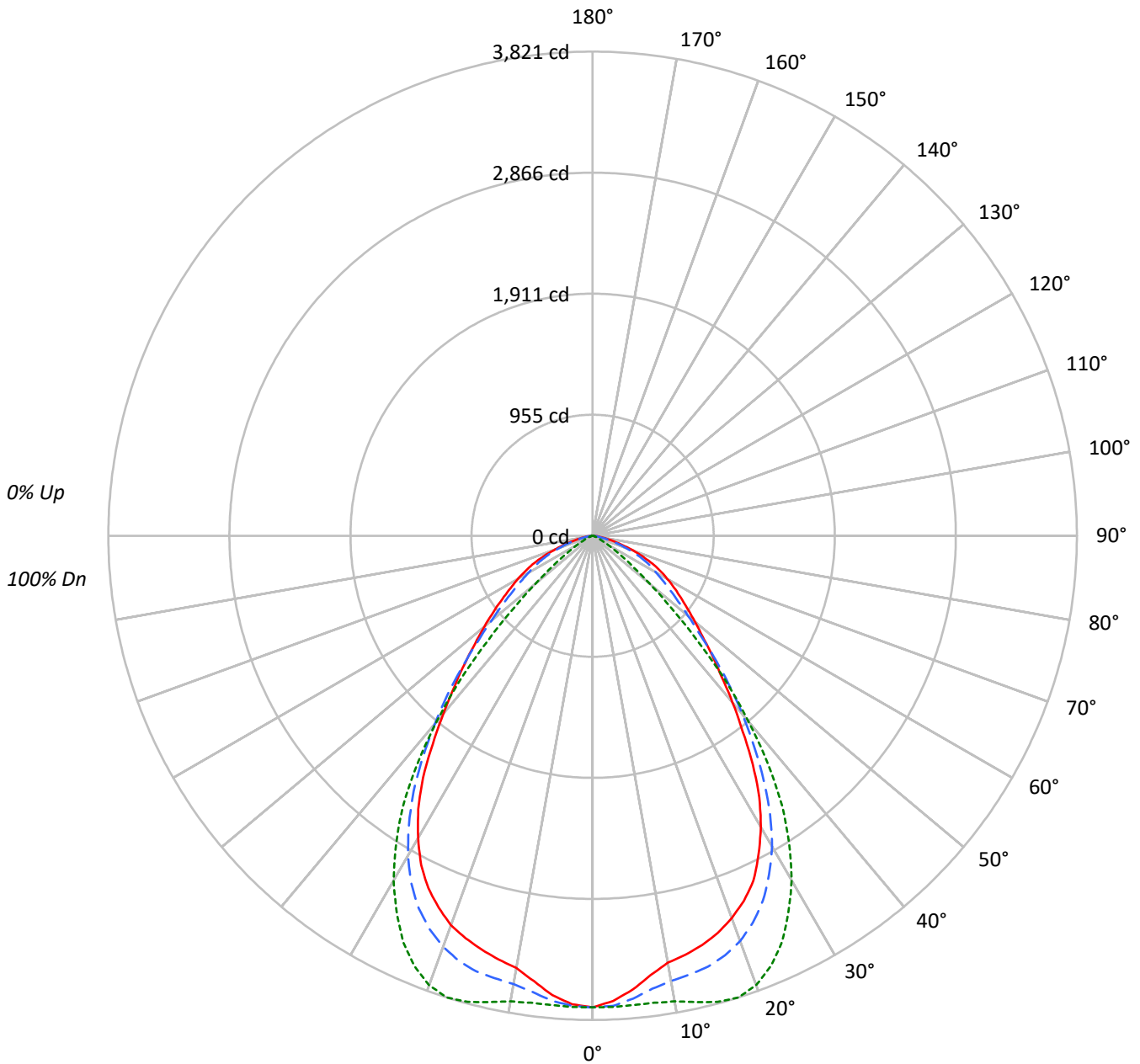
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	102	102	100	
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	72	68	64	62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56	66	62	58	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50	61	56	52	50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46	57	51	48	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42	53	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	242813	242813	242813
5°	235567	243458	238383
10°	226598	247128	229453
15°	225800	257187	228421
20°	222849	261978	227028
25°	216186	254597	220836
30°	199995	236615	207438
35°	175448	207999	185730
40°	146212	163058	155734
45°	123062	107580	131393
50°	106561	58959	113108
55°	96409	31325	98855
60°	88701	16284	88701
65°	80366	8629	78390
70°	64836	4940	59915
75°	44465	3252	41214
80°	29117	1578	25886
85°	19388	3144	16094



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	5.4
10°-20°	1003.5	15.6
20°-30°	1482.7	23.0
30°-40°	1497.6	23.2
40°-50°	1032.3	16.0
50°-60°	592.9	9.2
60°-70°	345.1	5.4
70°-80°	125.9	2.0
80°-90°	19.2	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°	2833.3	44.0
0°-40°	4330.9	67.2
0°-60°	5956.1	92.4
0°-90°	6446.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6446.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3722	3722	3722	3722	3722	
5°	3597	3666	3718	3683	3640	337
15°	3343	3520	3808	3558	3382	942
25°	3003	3180	3537	3244	3068	1368
35°	2203	2354	2612	2461	2332	1367
45°	1334	1351	1166	1437	1424	1037
55°	848	744	275	774	869	763
65°	521	439	56	434	508	510
75°	176	142	13	138	164	199
85°	26	13	4	17	22	33
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°	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8
2.5°	3674.4	3678.8	3683.0	3678.8	3683.0	3700.2	3687.4	3695.9	3695.9	3700.2	3713.1
5°	3597.0	3597.0	3605.6	3601.2	3614.1	3631.4	3618.5	3631.4	3635.8	3644.2	3665.8
7.5°	3498.0	3498.0	3502.2	3502.2	3519.5	3536.8	3528.1	3545.4	3562.5	3579.8	3605.6
10°	3420.5	3429.1	3429.1	3433.5	3450.6	3472.2	3467.9	3489.4	3506.6	3532.4	3566.9
12.5°	3386.1	3390.5	3390.5	3399.0	3416.2	3437.8	3433.5	3455.0	3480.8	3510.9	3545.4
15°	3343.1	3351.8	3347.4	3356.0	3373.2	3394.8	3390.5	3412.0	3442.1	3472.2	3519.5
17.5°	3287.1	3291.5	3295.8	3295.8	3313.0	3330.2	3330.2	3351.8	3386.1	3420.5	3472.2
20°	3209.8	3218.4	3218.4	3222.6	3235.5	3261.4	3257.0	3278.6	3313.0	3347.4	3403.4
22.5°	3119.4	3123.6	3123.6	3128.0	3149.5	3162.4	3166.8	3183.9	3214.0	3252.8	3304.4
25°	3003.2	3007.5	3003.2	3016.1	3024.8	3050.5	3041.9	3063.5	3097.9	3128.0	3179.6
27.5°	2835.4	2844.0	2844.0	2848.4	2869.9	2891.4	2891.4	2912.9	2943.0	2964.5	3016.1
30°	2654.8	2667.6	2654.8	2676.2	2684.9	2702.0	2714.9	2727.9	2753.6	2783.8	2831.1
32.5°	2448.1	2443.9	2448.1	2456.8	2482.6	2495.5	2504.1	2517.0	2542.9	2568.6	2607.4
35°	2202.9	2211.5	2215.9	2233.0	2233.0	2254.5	2258.9	2267.5	2306.2	2323.4	2353.5
37.5°	1944.8	1953.4	1957.6	1966.2	1983.5	1992.1	2005.0	2017.9	2043.8	2073.9	2091.0
40°	1716.8	1716.8	1721.0	1729.6	1742.5	1746.9	1759.8	1777.0	1794.1	1820.0	1837.2
42.5°	1501.6	1505.9	1501.6	1510.2	1523.1	1540.4	1536.0	1557.5	1561.9	1579.0	1592.0
45°	1333.8	1333.8	1325.2	1333.8	1333.8	1351.0	1346.8	1355.4	1351.0	1359.6	1351.0
47.5°	1174.6	1178.9	1174.6	1178.9	1178.9	1178.9	1183.2	1174.6	1178.9	1166.0	1140.1
50°	1049.9	1054.1	1045.5	1049.9	1045.5	1041.2	1045.5	1032.6	1028.4	1011.1	985.2
52.5°	942.2	938.0	933.6	933.6	933.6	929.4	925.0	912.1	899.2	882.0	851.9
55°	847.6	843.2	839.0	839.0	830.4	826.1	826.1	813.2	800.2	778.8	744.4
57.5°	761.5	757.2	753.0	753.0	748.6	740.0	740.0	727.1	709.9	684.1	654.0
60°	679.8	679.8	679.8	675.5	675.5	666.9	666.9	654.0	636.8	611.0	576.5
62.5°	606.6	602.4	602.4	602.4	602.4	598.0	593.8	585.1	568.0	542.1	512.0
65°	520.6	520.6	520.6	520.6	516.2	516.2	516.2	503.4	494.8	469.0	438.9
67.5°	426.0	426.0	426.0	426.0	421.6	426.0	426.0	417.4	408.8	382.9	357.1
70°	339.9	335.6	331.2	335.6	331.2	331.2	335.6	327.0	322.8	301.1	275.4
72.5°	249.5	253.9	249.5	249.5	249.5	245.2	249.5	245.2	236.6	219.4	202.2
75°	176.4	180.8	180.8	176.4	176.4	176.4	172.1	172.1	163.5	150.6	142.0
77.5°	120.5	120.5	120.5	120.5	116.1	116.1	116.1	111.9	107.6	99.0	90.4
80°	77.5	77.5	77.5	77.5	73.1	73.1	73.1	68.9	68.9	60.2	51.6
82.5°	47.4	47.4	47.4	47.4	47.4	47.4	43.0	43.0	38.8	34.4	30.1
85°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	21.5	21.5	17.2	12.9
87.5°	8.6	8.6	12.9	12.9	12.9	12.9	12.9	12.9	8.6	8.6	8.6
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°	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8
2.5°	3704.5	3708.9	3708.9	3708.9	3721.8	3726.0	3713.1	3700.2	3726.0	3721.8	3730.4
5°	3661.5	3674.4	3683.0	3687.4	3700.2	3708.9	3695.9	3691.6	3713.1	3717.5	3721.8
7.5°	3609.9	3631.4	3652.9	3661.5	3678.8	3687.4	3683.0	3683.0	3708.9	3717.5	3717.5
10°	3575.5	3605.6	3631.4	3652.9	3674.4	3687.4	3687.4	3691.6	3721.8	3730.4	3739.0
12.5°	3566.9	3605.6	3640.0	3670.1	3687.4	3708.9	3713.1	3726.0	3756.1	3769.1	3769.1
15°	3545.4	3597.0	3640.0	3678.8	3704.5	3730.4	3739.0	3764.8	3799.2	3807.8	3816.4
17.5°	3506.6	3558.2	3609.9	3657.2	3691.6	3713.1	3739.0	3764.8	3807.8	3820.8	3825.0
20°	3437.8	3498.0	3549.6	3597.0	3631.4	3661.5	3687.4	3717.5	3756.1	3773.4	3777.6
22.5°	3334.5	3394.8	3446.4	3498.0	3532.4	3558.2	3584.0	3618.5	3657.2	3674.4	3674.4
25°	3209.8	3265.6	3321.6	3360.4	3394.8	3424.9	3437.8	3476.5	3515.2	3536.8	3536.8
27.5°	3050.5	3102.1	3153.8	3196.9	3218.4	3244.1	3265.6	3300.1	3330.2	3347.4	3364.6
30°	2848.4	2900.0	2947.2	2990.2	3016.1	3041.9	3063.5	3089.2	3119.4	3140.9	3145.2
32.5°	2628.9	2671.9	2719.2	2762.2	2788.1	2796.6	2818.2	2844.0	2869.9	2887.0	2891.4
35°	2388.0	2418.0	2448.1	2486.9	2512.8	2512.8	2534.2	2551.4	2573.0	2611.6	2603.1
37.5°	2104.0	2147.0	2168.5	2181.4	2198.6	2215.9	2220.1	2241.6	2267.5	2276.1	2289.0
40°	1837.2	1850.1	1863.0	1863.0	1880.2	1880.2	1880.2	1884.5	1910.4	1914.6	1931.9
42.5°	1570.5	1570.5	1557.5	1544.6	1548.9	1544.6	1523.1	1523.1	1536.0	1553.2	1553.2
45°	1320.9	1290.8	1252.0	1221.9	1200.4	1191.9	1166.0	1166.0	1161.8	1166.0	1183.2
47.5°	1110.1	1058.4	993.9	933.6	912.1	895.0	856.2	839.0	830.4	834.8	843.2
50°	933.6	877.8	804.6	731.5	692.8	671.2	623.9	593.8	589.5	580.9	598.0
52.5°	804.6	735.8	658.2	572.2	533.5	499.1	447.5	421.6	404.5	404.5	408.8
55°	692.8	619.6	533.5	447.5	408.8	382.9	331.2	296.9	279.6	275.4	288.2
57.5°	598.0	529.2	443.1	357.1	318.4	288.2	236.6	206.5	193.6	185.0	189.4
60°	524.9	456.1	370.0	288.2	253.9	219.4	176.4	142.0	124.8	124.8	129.1
62.5°	456.1	391.5	314.1	236.6	206.5	176.4	129.1	99.0	86.0	81.8	86.0
65°	387.2	327.0	262.5	197.9	167.8	142.0	103.2	77.5	60.2	55.9	60.2
67.5°	314.1	266.8	210.9	159.2	133.4	111.9	77.5	55.9	43.0	38.8	43.0
70°	245.2	202.2	159.2	116.1	99.0	81.8	55.9	43.0	30.1	25.9	30.1
72.5°	176.4	146.2	111.9	81.8	68.9	55.9	38.8	30.1	21.5	17.2	21.5
75°	120.5	99.0	73.1	51.6	43.0	38.8	25.9	17.2	12.9	12.9	12.9
77.5°	77.5	60.2	47.4	34.4	25.9	21.5	12.9	8.6	8.6	8.6	8.6
80°	43.0	34.4	25.9	17.2	12.9	12.9	8.6	8.6	4.2	4.2	4.2
82.5°	25.9	17.2	12.9	8.6	8.6	4.2	4.2	4.2	4.2	4.2	4.2
85°	12.9	8.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	4.2	4.2	4.2	4.2	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°	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8
2.5°	3713.1	3717.5	3704.5	3721.8	3708.9	3726.0	3726.0	3708.9	3713.1	3704.5	3721.8
5°	3704.5	3704.5	3695.9	3708.9	3691.6	3708.9	3704.5	3674.4	3683.0	3665.8	3683.0
7.5°	3704.5	3695.9	3683.0	3695.9	3674.4	3687.4	3670.1	3640.0	3631.4	3609.9	3609.9
10°	3717.5	3704.5	3687.4	3691.6	3670.1	3674.4	3648.6	3605.6	3592.6	3566.9	3558.2
12.5°	3747.5	3734.6	3708.9	3717.5	3687.4	3687.4	3652.9	3601.2	3575.5	3541.0	3532.4
15°	3790.6	3769.1	3739.0	3743.2	3713.1	3695.9	3652.9	3592.6	3558.2	3510.9	3498.0
17.5°	3799.2	3777.6	3739.0	3739.0	3700.2	3678.8	3627.1	3558.2	3515.2	3467.9	3442.1
20°	3751.9	3730.4	3687.4	3683.0	3648.6	3618.5	3562.5	3493.8	3450.6	3399.0	3377.5
22.5°	3652.9	3627.1	3588.4	3584.0	3549.6	3532.4	3472.2	3403.4	3360.4	3308.8	3291.5
25°	3506.6	3493.8	3455.0	3450.6	3420.5	3399.0	3347.4	3282.9	3244.1	3192.5	3175.2
27.5°	3334.5	3321.6	3282.9	3282.9	3248.5	3235.5	3188.2	3128.0	3097.9	3050.5	3029.0
30°	3128.0	3110.8	3089.2	3085.0	3054.9	3041.9	2998.9	2943.0	2912.9	2874.1	2865.5
32.5°	2882.8	2869.9	2856.9	2852.6	2822.5	2809.6	2779.5	2723.5	2697.8	2663.2	2650.4
35°	2598.8	2590.1	2577.2	2573.0	2560.0	2547.1	2517.0	2474.0	2461.1	2435.2	2422.4
37.5°	2271.8	2280.4	2271.8	2271.8	2258.9	2263.1	2237.4	2211.5	2198.6	2181.4	2172.8
40°	1919.0	1936.1	1949.1	1949.1	1944.8	1962.0	1957.6	1936.1	1931.9	1923.2	1919.0
42.5°	1561.9	1570.5	1596.2	1613.5	1609.1	1652.2	1656.5	1673.8	1686.6	1678.0	1682.4
45°	1187.5	1213.4	1247.8	1265.0	1286.5	1342.4	1372.5	1407.0	1437.1	1454.2	1450.0
47.5°	856.2	886.4	925.0	950.9	989.6	1058.4	1135.9	1178.9	1221.9	1243.5	1265.0
50°	619.6	649.8	697.0	735.8	761.5	856.2	938.0	993.9	1041.2	1071.4	1092.9
52.5°	434.5	469.0	520.6	555.0	593.8	684.1	778.8	843.2	895.0	933.6	955.1
55°	301.1	339.9	387.2	421.6	464.6	559.4	649.8	718.5	774.5	808.9	834.8
57.5°	210.9	245.2	292.6	322.8	365.8	456.1	546.4	615.2	671.2	705.6	735.8
60°	142.0	176.4	223.8	253.9	288.2	378.6	460.4	533.5	585.1	619.6	649.8
62.5°	99.0	129.1	176.4	206.5	236.6	314.1	391.5	456.1	507.8	546.4	572.2
65°	77.5	103.2	142.0	167.8	197.9	262.5	327.0	382.9	434.5	473.2	490.5
67.5°	55.9	81.8	111.9	133.4	154.9	210.9	266.8	309.8	357.1	387.2	408.8
70°	38.8	55.9	81.8	99.0	116.1	159.2	202.2	241.0	275.4	296.9	314.1
72.5°	30.1	38.8	55.9	68.9	81.8	111.9	146.2	176.4	202.2	219.4	236.6
75°	17.2	25.9	38.8	47.4	55.9	77.5	99.0	120.5	137.6	150.6	159.2
77.5°	8.6	12.9	21.5	25.9	34.4	47.4	64.5	77.5	90.4	99.0	107.6
80°	8.6	8.6	12.9	12.9	17.2	25.9	34.4	43.0	51.6	60.2	64.5
82.5°	4.2	4.2	8.6	8.6	8.6	12.9	17.2	25.9	30.1	34.4	38.8
85°	4.2	4.2	4.2	4.2	4.2	8.6	8.6	12.9	17.2	21.5	21.5
87.5°	0.0	0.0	4.2	4.2	4.2	4.2	4.2	8.6	8.6	8.6	12.9
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: P252630

CATALOG NUMBER: LE_6B60D010R EC6B60709035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8
2.5°	3708.9	3717.5	3713.1	3721.8	3708.9	3704.5	3713.1	3700.2
5°	3661.5	3665.8	3661.5	3661.5	3652.9	3644.2	3652.9	3640.0
7.5°	3588.4	3588.4	3575.5	3575.5	3558.2	3549.6	3549.6	3545.4
10°	3528.1	3515.2	3502.2	3506.6	3480.8	3472.2	3467.9	3463.6
12.5°	3498.0	3489.4	3467.9	3467.9	3442.1	3433.5	3429.1	3424.9
15°	3463.6	3446.4	3429.1	3424.9	3403.4	3394.8	3390.5	3381.9
17.5°	3403.4	3390.5	3368.9	3368.9	3347.4	3343.1	3334.5	3330.2
20°	3338.8	3321.6	3304.4	3304.4	3278.6	3278.6	3265.6	3270.0
22.5°	3248.5	3235.5	3218.4	3218.4	3196.9	3192.5	3179.6	3175.2
25°	3140.9	3123.6	3110.8	3106.5	3089.2	3080.6	3076.4	3067.8
27.5°	2998.9	2986.0	2973.1	2964.5	2943.0	2938.6	2925.8	2930.1
30°	2822.5	2813.9	2809.6	2801.0	2775.1	2766.6	2766.6	2753.6
32.5°	2628.9	2616.0	2607.4	2594.5	2573.0	2568.6	2555.8	2560.0
35°	2392.2	2375.0	2362.1	2366.4	2340.6	2336.2	2327.8	2332.0
37.5°	2147.0	2129.8	2112.6	2108.2	2086.8	2086.8	2073.9	2073.9
40°	1893.1	1875.9	1867.4	1867.4	1841.5	1845.8	1832.9	1828.6
42.5°	1665.1	1647.9	1643.6	1639.2	1626.4	1622.1	1609.1	1613.5
45°	1450.0	1445.6	1445.6	1437.1	1424.1	1419.9	1424.1	1424.1
47.5°	1260.6	1265.0	1260.6	1260.6	1252.0	1260.6	1252.0	1256.4
50°	1101.5	1110.1	1110.1	1110.1	1105.8	1110.1	1110.1	1114.4
52.5°	968.1	981.0	976.8	981.0	976.8	985.2	981.0	985.2
55°	851.9	860.5	864.9	869.1	869.1	869.1	869.1	869.1
57.5°	744.4	757.2	761.5	765.9	765.9	774.5	765.9	765.9
60°	658.2	671.2	675.5	679.8	679.8	684.1	675.5	679.8
62.5°	580.9	593.8	593.8	598.0	598.0	598.0	589.5	593.8
65°	503.4	507.8	512.0	512.0	507.8	507.8	503.4	507.8
67.5°	417.4	421.6	417.4	417.4	413.0	413.0	404.5	408.8
70°	322.8	322.8	327.0	322.8	318.4	322.8	318.4	314.1
72.5°	241.0	241.0	241.0	236.6	236.6	232.4	236.6	236.6
75°	163.5	163.5	167.8	167.8	167.8	167.8	163.5	163.5
77.5°	107.6	107.6	107.6	107.6	111.9	107.6	107.6	107.6
80°	68.9	68.9	73.1	73.1	68.9	68.9	68.9	68.9
82.5°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
85°	25.9	25.9	25.9	25.9	21.5	21.5	21.5	21.5
87.5°	12.9	12.9	12.9	12.9	12.9	12.9	8.6	8.6
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)