

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: P252211

Luminaire Tested: **LE_6B60D010R EC6B60709024 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60709024 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6866.3 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

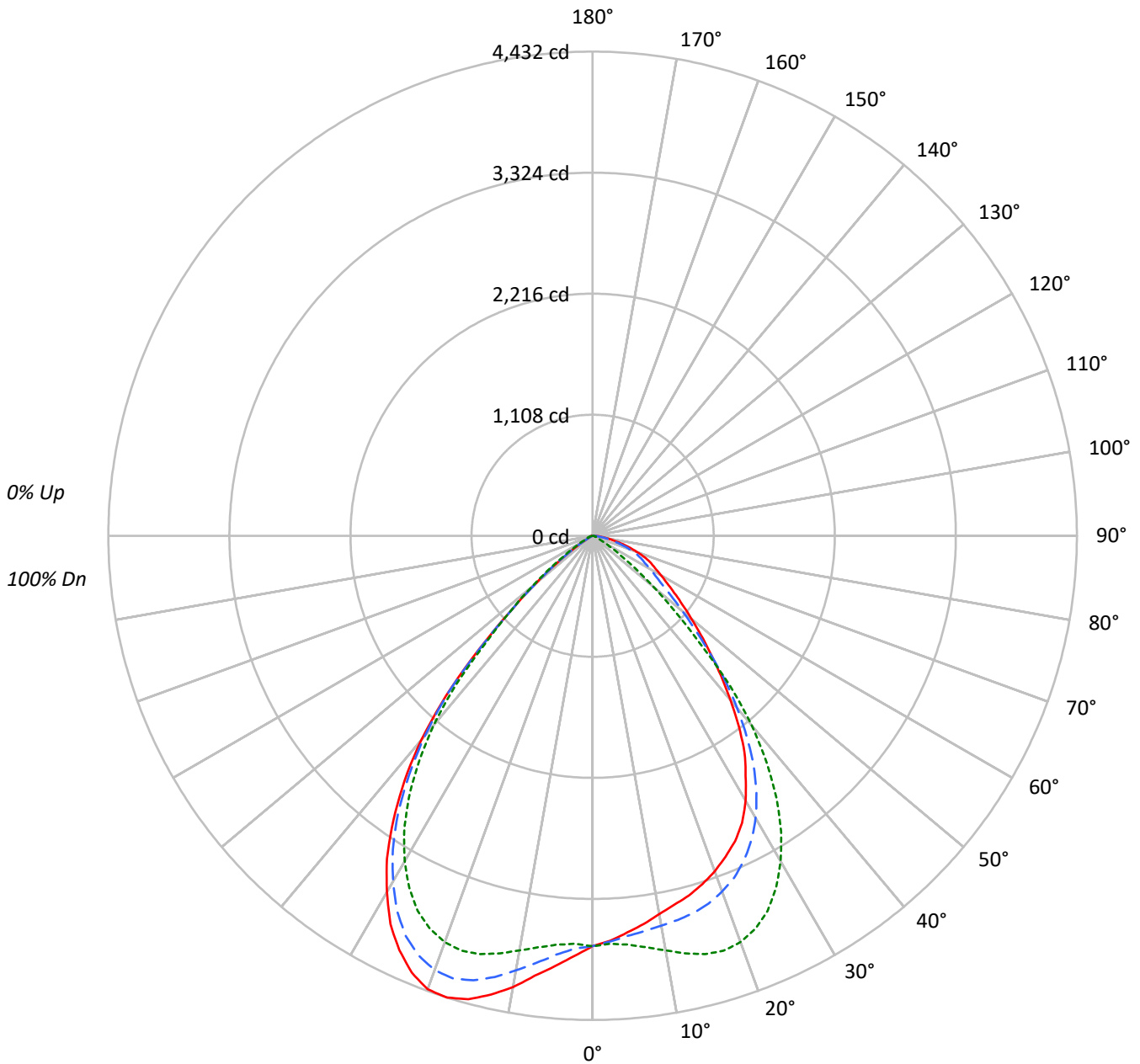
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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				100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	245070	245070	245070
5°	238710	246006	258940
10°	232911	255276	277873
15°	230183	267777	296645
20°	226889	274760	306669
25°	222067	272737	301171
30°	211016	259177	283525
35°	193057	233676	253125
40°	166993	192985	207668
45°	140814	126577	135850
50°	119553	73270	68896
55°	103746	35135	26548
60°	93712	16415	6550
65°	90925	9417	2223
70°	81527	7535	2060
75°	67000	5420	907
80°	49931	2668	0
85°	43042	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.8	5.3
10°-20°	1105.8	16.1
20°-30°	1689.5	24.6
30°-40°	1767.1	25.7
40°-50°	1146.3	16.7
50°-60°	455.2	6.6
60°-70°	215.9	3.1
70°-80°	102.7	1.5
80°-90°	21.0	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°	3158.1	46.0
0°-40°	4925.2	71.7
0°-60°	6526.7	95.1
0°-90°	6866.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6866.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3756	3756	3756	3756	3756	
5°	3645	3677	3756	3850	3954	344
15°	3408	3573	3965	4212	4392	960
25°	3085	3279	3789	4044	4184	1413
35°	2424	2571	2934	3106	3178	1499
45°	1526	1512	1372	1454	1472	1188
55°	912	776	309	241	233	826
65°	589	488	61	14	14	575
75°	266	216	22	7	4	287
85°	58	36	0	0	0	67
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°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	3709.8	3716.9	3677.4	3666.6	3695.4	3706.1	3709.8	3698.9	3702.5	3716.9	3716.9
5°	3645.0	3652.2	3616.4	3605.5	3634.2	3641.5	3652.2	3648.6	3659.4	3681.0	3677.4
7.5°	3584.0	3594.8	3555.2	3540.9	3576.9	3594.8	3602.0	3602.0	3616.4	3645.0	3648.6
10°	3515.8	3530.1	3494.2	3487.0	3526.5	3544.5	3548.1	3555.2	3576.9	3616.4	3623.5
12.5°	3458.2	3472.6	3447.5	3436.8	3479.9	3497.9	3505.0	3519.4	3544.5	3594.8	3602.0
15°	3408.0	3418.8	3390.1	3382.9	3426.0	3447.5	3451.1	3472.6	3505.0	3562.5	3573.2
17.5°	3343.4	3350.6	3329.0	3321.9	3365.0	3386.5	3390.1	3415.2	3454.8	3512.1	3530.1
20°	3268.0	3275.1	3253.6	3246.4	3289.5	3314.6	3318.2	3339.8	3386.5	3447.5	3465.5
22.5°	3178.2	3192.6	3167.4	3160.2	3203.4	3224.9	3235.6	3253.6	3300.2	3361.4	3386.5
25°	3084.9	3084.9	3066.9	3063.2	3102.8	3127.9	3124.4	3149.5	3196.1	3257.2	3278.8
27.5°	2962.8	2959.1	2941.1	2937.6	2980.6	3002.2	2995.0	3020.1	3063.2	3124.4	3145.9
30°	2801.1	2808.2	2783.1	2776.0	2811.9	2847.8	2844.2	2869.4	2912.5	2969.9	2984.2
32.5°	2607.2	2614.4	2610.8	2600.0	2632.4	2650.2	2661.1	2679.0	2714.9	2776.0	2790.4
35°	2424.0	2413.2	2398.9	2398.9	2431.2	2460.0	2449.2	2470.8	2506.6	2567.8	2571.2
37.5°	2197.8	2194.2	2187.0	2179.9	2215.8	2223.0	2226.5	2240.9	2273.2	2323.5	2316.4
40°	1960.8	1964.4	1960.8	1946.4	1968.0	1996.8	1993.1	2000.2	2029.0	2064.9	2054.1
42.5°	1738.1	1738.1	1738.1	1723.8	1748.9	1763.2	1770.5	1766.9	1774.0	1806.4	1792.0
45°	1526.2	1529.9	1526.2	1522.6	1526.2	1533.4	1526.2	1522.6	1522.6	1533.4	1511.9
47.5°	1343.1	1343.1	1332.4	1321.5	1332.4	1335.9	1325.1	1314.4	1310.8	1307.2	1271.2
50°	1177.9	1174.4	1170.8	1152.8	1163.5	1167.1	1152.8	1145.6	1131.2	1113.2	1070.1
52.5°	1034.2	1030.6	1027.1	1009.1	1016.2	1019.9	1005.5	991.1	973.2	958.9	905.0
55°	912.1	908.6	908.6	897.8	890.6	897.8	883.4	872.6	847.5	829.6	775.8
57.5°	808.0	808.0	800.9	790.0	793.6	793.6	779.2	764.9	743.4	721.9	678.8
60°	718.2	718.2	718.2	707.5	707.5	707.5	700.2	685.9	668.0	646.4	603.4
62.5°	646.4	646.4	642.9	632.0	635.6	635.6	628.5	614.1	596.1	581.8	538.6
65°	589.0	589.0	589.0	578.1	578.1	581.8	574.6	560.2	545.9	527.9	488.4
67.5°	517.1	513.5	513.5	506.4	510.0	513.5	506.4	495.6	477.6	466.9	431.0
70°	427.4	431.0	434.5	423.8	427.4	427.4	423.8	413.0	402.2	391.5	359.1
72.5°	348.4	348.4	344.8	341.1	341.1	344.8	337.6	326.8	319.6	312.4	287.2
75°	265.8	262.1	265.8	258.6	258.6	258.6	251.4	247.8	244.2	233.4	215.5
77.5°	193.9	190.4	190.4	183.1	186.8	186.8	183.1	176.0	168.8	165.2	150.9
80°	132.9	132.9	132.9	129.2	129.2	125.8	125.8	122.1	114.9	111.4	104.1
82.5°	89.8	89.8	89.8	86.2	86.2	86.2	82.6	79.0	75.4	71.9	64.6
85°	57.5	57.5	57.5	53.9	53.9	53.9	50.2	50.2	46.6	43.1	35.9
87.5°	32.4	32.4	32.4	28.8	28.8	28.8	28.8	28.8	25.1	21.5	18.0
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°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	3742.0	3691.8	3724.0	3724.0	3713.2	3742.0	3760.0	3774.4	3770.8	3738.4	3734.9
5°	3713.2	3670.2	3706.1	3709.8	3698.9	3738.4	3763.6	3781.5	3785.1	3756.4	3760.0
7.5°	3691.8	3655.9	3702.5	3716.9	3713.2	3749.2	3777.9	3806.6	3821.0	3799.5	3803.1
10°	3681.0	3652.2	3702.5	3724.0	3727.6	3767.1	3810.2	3849.8	3867.8	3853.4	3864.1
12.5°	3666.6	3648.6	3706.1	3738.4	3752.8	3792.2	3846.1	3892.9	3921.6	3914.4	3936.0
15°	3652.2	3637.9	3706.1	3752.8	3770.8	3806.6	3867.8	3936.0	3968.2	3964.6	3993.4
17.5°	3616.4	3612.8	3684.5	3734.9	3760.0	3803.1	3860.5	3943.1	3975.5	3982.6	4018.5
20°	3558.9	3558.9	3637.9	3691.8	3720.5	3760.0	3831.8	3910.8	3950.2	3957.5	3997.0
22.5°	3479.9	3487.0	3562.5	3616.4	3659.4	3688.1	3763.6	3846.1	3882.1	3892.9	3936.0
25°	3375.8	3382.9	3454.8	3508.6	3555.2	3587.6	3659.4	3734.9	3777.9	3788.8	3821.0
27.5°	3239.2	3253.6	3321.9	3375.8	3415.2	3436.8	3512.1	3591.1	3623.5	3634.2	3666.6
30°	3081.2	3084.9	3153.0	3199.8	3239.2	3257.2	3321.9	3404.5	3429.6	3440.4	3487.0
32.5°	2887.4	2883.8	2948.4	2991.5	3023.8	3045.4	3113.5	3167.4	3192.6	3210.5	3235.6
35°	2653.9	2650.2	2697.0	2747.2	2772.4	2779.6	2847.8	2905.2	2919.6	2934.0	2966.4
37.5°	2391.8	2391.8	2431.2	2456.4	2485.1	2495.9	2528.2	2592.9	2618.0	2614.4	2639.5
40°	2115.2	2100.9	2129.6	2154.8	2161.9	2165.5	2197.8	2248.1	2266.0	2266.0	2284.0
42.5°	1824.4	1802.8	1806.4	1820.8	1827.9	1802.8	1824.4	1856.6	1845.9	1860.2	1863.9
45°	1515.5	1483.1	1468.8	1436.5	1443.6	1418.5	1404.1	1411.4	1407.8	1371.9	1379.0
47.5°	1264.1	1206.6	1181.5	1134.9	1124.0	1095.2	1077.4	1045.0	1016.2	1016.2	998.4
50°	1052.2	994.8	944.5	890.6	872.6	847.5	808.0	764.9	743.4	721.9	703.9
52.5°	883.4	822.4	761.4	703.9	678.8	646.4	592.5	549.5	510.0	488.4	466.9
55°	747.0	678.8	614.1	553.0	520.8	488.4	434.5	384.2	337.6	308.9	290.9
57.5°	642.9	578.1	510.0	445.2	416.6	380.6	323.2	269.4	226.2	193.9	176.0
60°	567.4	502.8	441.8	373.5	344.8	308.9	247.8	197.5	154.4	125.8	104.1
62.5°	502.8	445.2	380.6	319.6	290.9	255.0	197.5	147.2	107.8	79.0	61.0
65°	456.1	398.6	344.8	283.8	258.6	222.6	168.8	122.1	86.2	61.0	43.1
67.5°	402.2	351.9	298.1	247.8	222.6	193.9	143.6	104.1	71.9	50.2	35.9
70°	337.6	298.1	251.4	204.8	186.8	161.6	118.5	86.2	57.5	39.5	28.8
72.5°	269.4	237.0	201.1	165.2	150.9	125.8	97.0	68.2	43.1	28.8	21.5
75°	204.8	179.5	150.9	125.8	111.4	97.0	71.9	50.2	32.4	21.5	14.4
77.5°	140.0	129.2	107.8	86.2	79.0	68.2	46.6	32.4	21.5	14.4	7.1
80°	97.0	86.2	71.9	57.5	50.2	43.1	28.8	21.5	10.8	7.1	3.6
82.5°	61.0	50.2	43.1	35.9	32.4	25.1	18.0	10.8	7.1	3.6	3.6
85°	32.4	28.8	25.1	18.0	18.0	14.4	10.8	7.1	3.6	0.0	0.0
87.5°	18.0	14.4	10.8	7.1	7.1	3.6	3.6	3.6	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°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	3777.9	3777.9	3774.4	3817.4	3767.1	3817.4	3792.2	3817.4	3781.5	3777.9	3781.5
5°	3806.6	3817.4	3821.0	3860.5	3813.9	3874.9	3853.4	3874.9	3849.8	3856.9	3867.8
7.5°	3864.1	3882.1	3878.5	3928.8	3882.1	3950.2	3936.0	3968.2	3943.1	3950.2	3964.6
10°	3928.8	3950.2	3953.9	4004.1	3961.1	4043.6	4025.8	4061.6	4040.1	4050.9	4068.9
12.5°	4004.1	4029.2	4032.9	4090.4	4043.6	4129.9	4119.1	4155.0	4137.0	4147.9	4169.4
15°	4061.6	4097.5	4104.8	4162.1	4111.9	4201.8	4194.5	4241.2	4212.5	4230.4	4248.4
17.5°	4090.4	4122.6	4137.0	4190.9	4147.9	4237.6	4230.4	4269.9	4248.4	4266.4	4287.9
20°	4072.4	4111.9	4122.6	4176.5	4133.5	4223.2	4212.5	4252.0	4230.4	4244.8	4266.4
22.5°	4007.8	4047.2	4061.6	4111.9	4072.4	4155.0	4151.4	4187.4	4158.6	4176.5	4194.5
25°	3892.9	3936.0	3943.1	3989.8	3946.8	4032.9	4025.8	4065.2	4043.6	4054.5	4079.6
27.5°	3727.6	3777.9	3788.8	3828.2	3795.9	3867.8	3867.8	3900.0	3874.9	3874.9	3900.0
30°	3530.1	3580.4	3587.6	3619.9	3591.1	3655.9	3659.4	3691.8	3652.2	3673.8	3677.4
32.5°	3289.5	3321.9	3343.4	3372.1	3329.0	3411.6	3400.9	3426.0	3404.5	3404.5	3422.4
35°	2998.6	3038.1	3048.9	3084.9	3048.9	3113.5	3113.5	3127.9	3106.4	3106.4	3135.1
37.5°	2682.6	2711.4	2714.9	2750.9	2722.1	2776.0	2772.4	2783.1	2761.6	2776.0	2776.0
40°	2312.8	2334.2	2341.5	2359.4	2355.9	2395.4	2391.8	2398.9	2388.1	2391.8	2398.9
42.5°	1881.8	1910.5	1924.9	1939.2	1917.8	1971.5	1960.8	1971.5	1968.0	1971.5	1982.4
45°	1386.2	1407.8	1418.5	1422.1	1414.9	1447.2	1472.4	1450.9	1454.4	1447.2	1461.6
47.5°	1002.0	1005.5	998.4	1019.9	1002.0	1016.2	1023.5	1027.1	1005.5	1002.0	1016.2
50°	685.9	703.9	678.8	689.5	685.9	700.2	693.1	696.8	675.1	685.9	678.8
52.5°	456.1	452.5	445.2	448.9	441.8	441.8	441.8	448.9	434.5	427.4	420.1
55°	276.5	269.4	255.0	251.4	251.4	255.0	247.8	240.6	240.6	237.0	237.0
57.5°	161.6	150.9	143.6	140.0	132.9	129.2	125.8	125.8	118.5	118.5	118.5
60°	89.8	79.0	71.9	64.6	64.6	61.0	57.5	53.9	53.9	53.9	50.2
62.5°	46.6	39.5	32.4	28.8	28.8	25.1	21.5	21.5	21.5	21.5	18.0
65°	32.4	25.1	21.5	18.0	18.0	14.4	14.4	14.4	14.4	14.4	14.4
67.5°	25.1	21.5	18.0	14.4	14.4	14.4	10.8	10.8	10.8	10.8	10.8
70°	21.5	14.4	14.4	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
72.5°	14.4	14.4	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
75°	10.8	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0
80°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P252211

CATALOG NUMBER: LE_6B60D010R EC6B60709024 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	3813.9	3810.2	3813.9	3821.0	3806.6	3849.8	3828.2	3849.8
5°	3896.4	3900.0	3903.6	3914.4	3896.4	3950.2	3921.6	3953.9
7.5°	4004.1	4007.8	4011.4	4022.1	4011.4	4065.2	4032.9	4061.6
10°	4115.5	4122.6	4122.6	4140.6	4129.9	4180.1	4158.6	4194.5
12.5°	4219.6	4226.9	4234.0	4244.8	4237.6	4291.5	4273.5	4302.2
15°	4302.2	4316.6	4320.2	4334.5	4327.4	4384.9	4363.2	4392.0
17.5°	4341.8	4356.1	4356.1	4374.1	4366.9	4427.9	4399.2	4431.5
20°	4320.2	4331.0	4334.5	4352.5	4345.4	4406.4	4377.6	4417.1
22.5°	4252.0	4255.5	4259.1	4277.1	4273.5	4327.4	4302.2	4327.4
25°	4126.2	4137.0	4133.5	4147.9	4147.9	4190.9	4162.1	4183.8
27.5°	3946.8	3957.5	3957.5	3975.5	3961.1	4004.1	3975.5	4007.8
30°	3727.6	3738.4	3731.2	3745.6	3731.2	3774.4	3752.8	3763.6
32.5°	3465.5	3465.5	3469.1	3472.6	3465.5	3505.0	3483.5	3505.0
35°	3153.0	3160.2	3163.9	3167.4	3160.2	3189.0	3163.9	3178.2
37.5°	2801.1	2819.1	2815.5	2819.1	2808.2	2844.2	2822.6	2829.9
40°	2424.0	2424.0	2420.5	2427.6	2416.9	2445.6	2431.2	2438.4
42.5°	1985.9	1996.8	1982.4	2000.2	1971.5	2011.1	1996.8	1985.9
45°	1490.4	1476.0	1472.4	1476.0	1465.2	1468.8	1479.6	1472.4
47.5°	1016.2	1016.2	1009.1	998.4	1012.8	1016.2	1002.0	1002.0
50°	682.4	682.4	675.1	671.5	678.8	675.1	668.0	678.8
52.5°	434.5	420.1	420.1	427.4	420.1	413.0	423.8	416.6
55°	237.0	229.9	229.9	237.0	229.9	229.9	226.2	233.4
57.5°	114.9	118.5	114.9	114.9	114.9	114.9	111.4	114.9
60°	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
62.5°	21.5	21.5	18.0	18.0	18.0	18.0	18.0	18.0
65°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
67.5°	10.8	10.8	10.8	10.8	10.8	14.4	10.8	10.8
70°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
72.5°	10.8	10.8	14.4	14.4	14.4	14.4	14.4	14.4
75°	7.1	7.1	7.1	3.6	3.6	3.6	3.6	3.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)