

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: P252300

Luminaire Tested: **LE\_6B50D010R EC6B30508040 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B50D010R EC6B30508040 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE 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: 6396.2 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

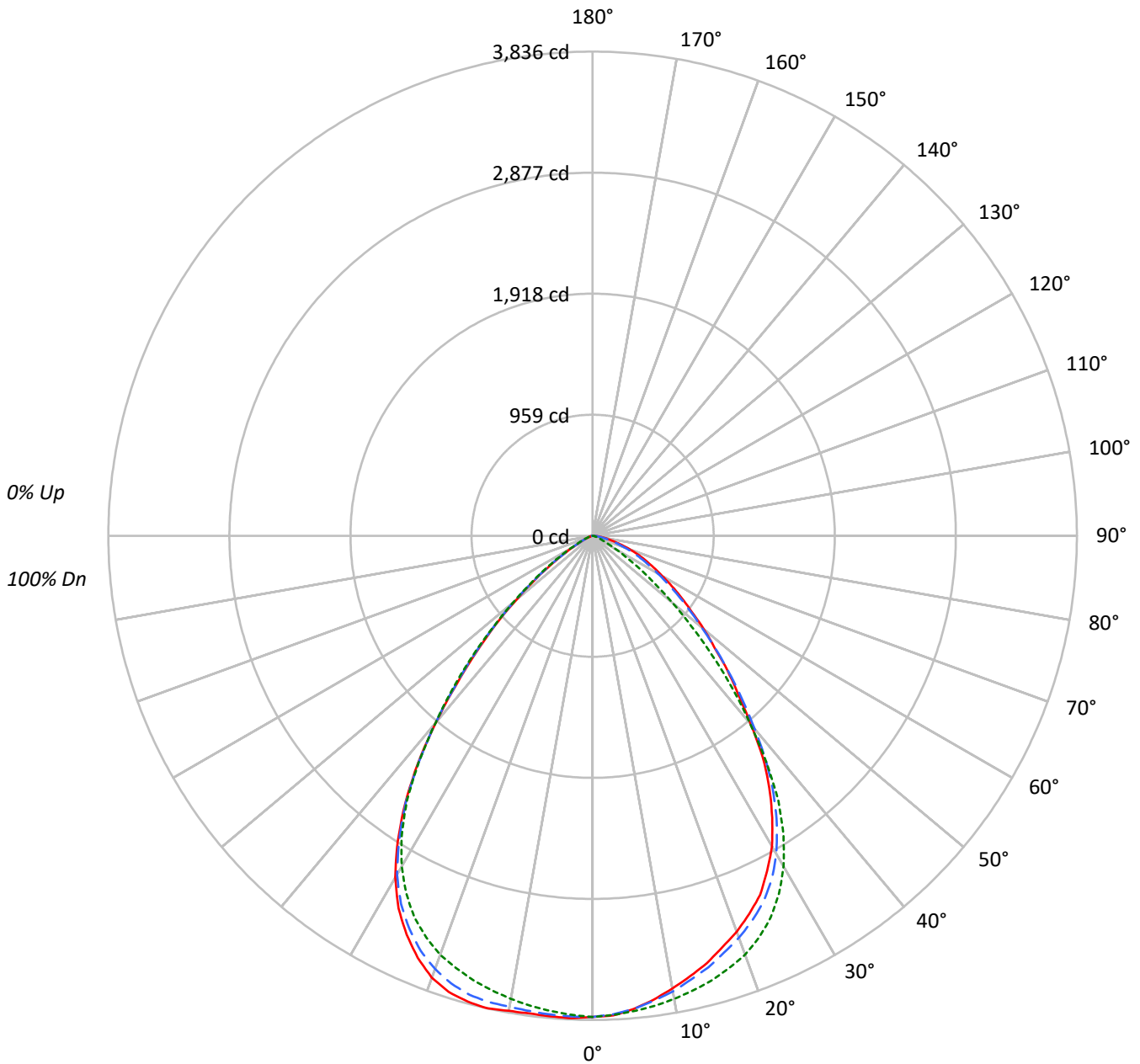
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	248730	248730	248730
5°	246366	247578	250289
10°	241285	246777	253183
15°	236667	246312	258132
20°	231763	245191	258625
25°	226048	240301	250911
30°	214022	227891	235530
35°	194363	204271	206103
40°	165886	165093	164301
45°	139337	123625	119805
50°	116366	83653	79451
55°	97933	51321	46612
60°	82908	27036	23434
65°	71783	14218	11362
70°	59724	8775	6142
75°	44112	5798	3504
80°	34603	3456	1728
85°	27622	3443	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.3	5.6
10°-20°	1028.8	16.1
20°-30°	1519.2	23.8
30°-40°	1565.7	24.5
40°-50°	1081.4	16.9
50°-60°	533.0	8.3
60°-70°	216.0	3.4
70°-80°	77.0	1.2
80°-90°	15.9	0.2
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°	2907.3	45.5
0°-40°	4473.0	69.9
0°-60°	6087.4	95.2
0°-90°	6396.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6396.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3812	3812	3812	3812	3812	
5°	3762	3762	3780	3808	3822	355
15°	3504	3541	3647	3766	3822	987
25°	3140	3200	3338	3435	3486	1436
35°	2440	2500	2565	2578	2588	1512
45°	1510	1520	1340	1322	1298	1167
55°	861	829	451	424	410	778
65°	465	419	92	74	74	462
75°	175	147	23	14	14	196
85°	37	28	5	0	0	45
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°	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5
2.5°	3803.4	3789.5	3798.8	3780.4	3803.4	3780.4	3784.9	3789.5	3784.9	3789.5	3794.1
5°	3761.9	3748.1	3761.9	3738.9	3761.9	3748.1	3748.1	3752.8	3752.8	3757.2	3761.9
7.5°	3706.6	3692.9	3706.6	3683.6	3711.2	3697.5	3697.5	3706.6	3702.0	3706.6	3715.9
10°	3642.2	3623.8	3637.6	3623.8	3651.4	3633.0	3642.2	3642.2	3642.2	3656.0	3665.2
12.5°	3573.1	3554.8	3573.1	3550.1	3577.8	3563.9	3568.5	3582.4	3586.9	3596.1	3600.8
15°	3504.0	3481.0	3490.2	3476.4	3504.0	3490.2	3494.9	3513.2	3513.2	3527.1	3540.9
17.5°	3416.6	3398.1	3416.6	3398.1	3421.1	3412.0	3421.1	3435.0	3435.0	3448.8	3462.6
20°	3338.2	3319.9	3333.6	3319.9	3347.5	3333.6	3338.2	3356.8	3361.4	3375.1	3389.0
22.5°	3241.6	3227.8	3237.0	3223.1	3250.8	3241.6	3246.2	3264.6	3269.2	3278.4	3301.5
25°	3140.2	3112.6	3126.5	3117.2	3144.9	3131.1	3140.2	3158.8	3167.9	3181.8	3200.1
27.5°	2993.0	2979.1	2988.4	2988.4	3011.4	2997.5	3002.1	3020.6	3034.4	3048.2	3071.2
30°	2841.0	2818.0	2827.1	2831.8	2850.2	2841.0	2850.2	2868.6	2873.2	2891.6	2910.1
32.5°	2647.6	2638.4	2656.9	2647.6	2656.9	2656.9	2661.4	2675.2	2684.5	2693.6	2716.6
35°	2440.4	2422.0	2440.4	2431.2	2454.2	2440.4	2454.2	2468.0	2468.0	2486.5	2500.2
37.5°	2214.8	2191.8	2201.0	2201.0	2210.1	2205.6	2205.6	2228.6	2233.2	2247.0	2260.9
40°	1947.8	1938.5	1956.9	1952.4	1956.9	1956.9	1961.5	1975.4	1984.5	1989.1	1993.8
42.5°	1708.2	1712.9	1717.5	1717.5	1717.5	1717.5	1717.5	1735.9	1731.2	1745.1	1749.8
45°	1510.2	1491.9	1501.1	1496.5	1510.2	1496.5	1510.2	1524.1	1514.9	1528.8	1519.5
47.5°	1307.8	1307.8	1307.8	1303.1	1312.2	1307.8	1316.9	1321.5	1321.5	1321.5	1316.9
50°	1146.5	1132.8	1137.4	1137.4	1141.9	1137.4	1146.5	1151.1	1151.1	1141.9	1123.5
52.5°	990.0	985.4	985.4	994.6	994.6	990.0	990.0	990.0	990.0	976.1	967.0
55°	861.0	851.9	856.5	856.5	856.5	856.5	861.0	856.5	856.5	842.6	828.9
57.5°	745.9	736.8	736.8	736.8	741.4	736.8	736.8	736.8	732.1	718.2	699.9
60°	635.4	630.9	635.4	635.4	640.0	635.4	635.4	635.4	626.2	612.4	594.0
62.5°	543.4	543.4	543.4	548.0	548.0	543.4	543.4	538.8	534.1	515.8	497.2
65°	465.0	460.5	465.0	465.0	469.6	469.6	465.0	460.5	455.9	437.4	419.0
67.5°	386.8	382.1	386.8	386.8	391.4	386.8	386.8	386.8	373.0	363.8	345.4
70°	313.1	308.5	308.5	308.5	313.1	303.9	308.5	308.5	299.2	285.5	267.1
72.5°	239.4	239.4	239.4	239.4	239.4	239.4	234.9	234.9	225.6	211.8	202.6
75°	175.0	175.0	179.6	179.6	175.0	175.0	175.0	170.4	165.8	156.5	147.4
77.5°	128.9	128.9	128.9	128.9	124.4	124.4	124.4	119.8	115.1	110.5	101.2
80°	92.1	92.1	92.1	87.5	92.1	87.5	87.5	87.5	78.2	73.6	69.1
82.5°	64.5	59.9	59.9	59.9	59.9	59.9	59.9	55.2	55.2	50.6	46.0
85°	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	32.2	27.6	27.6
87.5°	18.4	23.0	23.0	23.0	23.0	23.0	23.0	18.4	18.4	18.4	13.9
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°	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5
2.5°	3794.1	3794.1	3803.4	3789.5	3812.5	3798.8	3794.1	3817.1	3803.4	3798.8	3808.0
5°	3761.9	3766.5	3771.1	3761.9	3784.9	3771.1	3771.1	3794.1	3784.9	3780.4	3794.1
7.5°	3720.5	3725.1	3734.2	3729.6	3748.1	3738.9	3743.5	3766.5	3757.2	3757.2	3771.1
10°	3669.9	3679.0	3688.2	3688.2	3711.2	3702.0	3702.0	3729.6	3720.5	3725.1	3743.5
12.5°	3610.0	3623.8	3637.6	3642.2	3665.2	3651.4	3656.0	3688.2	3683.6	3688.2	3706.6
15°	3545.5	3563.9	3577.8	3577.8	3605.4	3591.5	3605.4	3637.6	3628.4	3646.8	3669.9
17.5°	3471.9	3490.2	3508.6	3513.2	3540.9	3531.6	3550.1	3582.4	3582.4	3591.5	3619.1
20°	3402.8	3425.8	3435.0	3448.8	3476.4	3471.9	3481.0	3517.9	3517.9	3531.6	3559.2
22.5°	3310.6	3333.6	3352.1	3365.9	3389.0	3389.0	3402.8	3435.0	3435.0	3444.2	3471.9
25°	3209.4	3237.0	3250.8	3264.6	3287.6	3283.0	3296.9	3324.5	3329.1	3338.2	3365.9
27.5°	3080.4	3103.5	3121.9	3131.1	3163.4	3144.9	3158.8	3191.0	3186.4	3195.5	3218.6
30°	2919.2	2942.2	2960.8	2960.8	2988.4	2988.4	3002.1	3016.0	3016.0	3025.1	3043.6
32.5°	2730.5	2758.1	2758.1	2771.9	2790.4	2771.9	2790.4	2808.8	2799.5	2813.4	2827.1
35°	2514.1	2527.9	2532.5	2532.5	2546.2	2541.8	2537.1	2550.9	2541.8	2564.8	2578.5
37.5°	2251.6	2270.0	2260.9	2270.0	2265.4	2251.6	2251.6	2274.6	2256.2	2260.9	2274.6
40°	1998.4	1998.4	1993.8	1970.8	1975.4	1961.5	1956.9	1961.5	1943.1	1938.5	1956.9
42.5°	1735.9	1731.2	1717.5	1685.2	1689.9	1666.9	1648.4	1648.4	1639.2	1634.6	1639.2
45°	1501.1	1487.2	1464.2	1427.4	1418.2	1399.8	1363.0	1353.8	1339.9	1339.9	1344.5
47.5°	1284.6	1266.2	1229.4	1188.0	1165.0	1141.9	1105.1	1091.2	1068.2	1059.0	1068.2
50°	1105.1	1072.9	1026.8	967.0	943.9	916.2	879.5	856.5	833.4	824.2	819.6
52.5°	939.4	893.2	847.2	773.6	755.1	727.5	676.9	653.9	630.9	612.4	612.4
55°	796.6	755.1	690.6	621.6	594.0	566.4	515.8	483.5	460.5	451.2	442.0
57.5°	667.6	621.6	561.8	488.1	460.5	432.9	382.1	350.0	326.9	313.1	303.9
60°	561.8	511.1	451.2	386.8	354.5	326.9	276.2	244.0	221.0	207.2	198.0
62.5°	460.5	419.0	359.1	299.2	271.6	244.0	202.6	170.4	147.4	138.1	124.4
65°	386.8	345.4	290.1	239.4	216.4	188.8	152.0	124.4	105.9	92.1	82.9
67.5°	313.1	280.9	234.9	188.8	165.8	147.4	115.1	92.1	73.6	64.5	59.9
70°	248.6	216.4	179.6	142.8	128.9	110.5	87.5	64.5	55.2	46.0	41.5
72.5°	184.1	161.1	133.5	105.9	92.1	82.9	59.9	50.6	36.9	32.2	27.6
75°	133.5	115.1	96.8	73.6	64.5	59.9	46.0	32.2	27.6	23.0	18.4
77.5°	92.1	82.9	64.5	50.6	46.0	41.5	32.2	23.0	18.4	13.9	13.9
80°	59.9	50.6	41.5	32.2	32.2	27.6	18.4	13.9	13.9	9.2	9.2
82.5°	36.9	32.2	27.6	23.0	18.4	18.4	13.9	9.2	9.2	4.6	4.6
85°	23.0	18.4	13.9	13.9	9.2	9.2	9.2	4.6	4.6	4.6	4.6
87.5°	9.2	9.2	9.2	4.6	4.6	4.6	4.6	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°	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5
2.5°	3808.0	3808.0	3817.1	3803.4	3812.5	3812.5	3821.8	3803.4	3812.5	3817.1	3826.4
5°	3789.5	3794.1	3803.4	3798.8	3803.4	3803.4	3812.5	3789.5	3808.0	3808.0	3821.8
7.5°	3771.1	3771.1	3780.4	3775.8	3784.9	3789.5	3798.8	3780.4	3798.8	3798.8	3812.5
10°	3748.1	3748.1	3761.9	3757.2	3771.1	3775.8	3789.5	3771.1	3789.5	3794.1	3808.0
12.5°	3715.9	3720.5	3734.2	3734.2	3748.1	3757.2	3771.1	3761.9	3784.9	3789.5	3808.0
15°	3679.0	3688.2	3706.6	3702.0	3715.9	3729.6	3748.1	3734.2	3766.5	3775.8	3794.1
17.5°	3633.0	3642.2	3656.0	3656.0	3669.9	3679.0	3702.0	3692.9	3720.5	3725.1	3748.1
20°	3563.9	3577.8	3596.1	3591.5	3605.4	3614.6	3633.0	3623.8	3651.4	3660.6	3683.6
22.5°	3481.0	3490.2	3504.0	3504.0	3517.9	3527.1	3545.5	3531.6	3559.2	3563.9	3582.4
25°	3370.5	3379.8	3389.0	3393.5	3407.4	3412.0	3421.1	3412.0	3435.0	3439.6	3462.6
27.5°	3227.8	3232.4	3246.2	3246.2	3255.4	3260.0	3273.9	3255.4	3287.6	3287.6	3301.5
30°	3057.4	3052.8	3071.2	3062.0	3071.2	3071.2	3085.0	3075.9	3098.9	3089.6	3103.5
32.5°	2831.8	2841.0	2841.0	2831.8	2850.2	2845.6	2845.6	2836.4	2850.2	2854.9	2864.0
35°	2569.4	2583.1	2583.1	2587.8	2592.4	2578.5	2583.1	2555.5	2578.5	2583.1	2587.8
37.5°	2283.9	2270.0	2279.2	2265.4	2288.5	2260.9	2260.9	2242.4	2260.9	2260.9	2265.4
40°	1956.9	1952.4	1961.5	1952.4	1947.8	1943.1	1933.9	1920.1	1938.5	1929.2	1943.1
42.5°	1648.4	1643.9	1643.9	1634.6	1630.0	1630.0	1620.8	1611.6	1607.0	1607.0	1630.0
45°	1330.8	1339.9	1330.8	1326.1	1335.4	1326.1	1330.8	1312.2	1321.5	1312.2	1321.5
47.5°	1063.6	1068.2	1059.0	1049.9	1063.6	1049.9	1049.9	1036.0	1054.5	1054.5	1045.2
50°	824.2	819.6	810.4	819.6	815.0	815.0	815.0	801.2	810.4	796.6	805.8
52.5°	607.8	603.2	603.2	598.6	603.2	598.6	598.6	594.0	594.0	589.4	594.0
55°	442.0	437.4	428.2	428.2	428.2	432.9	428.2	423.6	423.6	419.0	423.6
57.5°	299.2	290.1	290.1	290.1	290.1	285.5	285.5	280.9	285.5	280.9	285.5
60°	193.4	193.4	184.1	184.1	184.1	184.1	184.1	179.6	184.1	184.1	184.1
62.5°	119.8	119.8	115.1	110.5	115.1	110.5	110.5	110.5	115.1	110.5	115.1
65°	78.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
67.5°	55.2	50.6	50.6	50.6	50.6	50.6	50.6	46.0	50.6	50.6	50.6
70°	36.9	36.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
72.5°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
75°	18.4	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
77.5°	13.9	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
80°	9.2	9.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
85°	4.6	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	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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: P252300

CATALOG NUMBER: LE\_6B50D010R EC6B30508040 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5	3812.5
2.5°	3812.5	3817.1	3808.0	3812.5	3803.4	3812.5	3817.1	3826.4
5°	3803.4	3808.0	3798.8	3808.0	3798.8	3808.0	3812.5	3821.8
7.5°	3794.1	3803.4	3794.1	3803.4	3794.1	3803.4	3808.0	3817.1
10°	3794.1	3808.0	3798.8	3812.5	3798.8	3808.0	3817.1	3821.8
12.5°	3794.1	3808.0	3803.4	3812.5	3808.0	3817.1	3826.4	3835.6
15°	3784.9	3798.8	3789.5	3803.4	3798.8	3803.4	3821.8	3821.8
17.5°	3734.2	3748.1	3748.1	3757.2	3757.2	3771.1	3780.4	3789.5
20°	3669.9	3683.6	3679.0	3692.9	3692.9	3706.6	3715.9	3725.1
22.5°	3573.1	3591.5	3586.9	3600.8	3596.1	3605.4	3623.8	3619.1
25°	3448.8	3471.9	3467.2	3476.4	3471.9	3471.9	3481.0	3485.6
27.5°	3296.9	3310.6	3306.0	3315.2	3306.0	3315.2	3324.5	3329.1
30°	3098.9	3108.1	3103.5	3108.1	3103.5	3112.6	3117.2	3126.5
32.5°	2859.4	2873.2	2859.4	2868.6	2864.0	2864.0	2882.5	2873.2
35°	2574.0	2578.5	2583.1	2583.1	2574.0	2578.5	2587.8	2587.8
37.5°	2256.2	2279.2	2251.6	2265.4	2260.9	2260.9	2260.9	2274.6
40°	1924.8	1929.2	1920.1	1920.1	1920.1	1915.5	1933.9	1929.2
42.5°	1611.6	1616.2	1611.6	1597.8	1602.4	1602.4	1616.2	1597.8
45°	1307.8	1316.9	1312.2	1312.2	1303.1	1303.1	1307.8	1298.5
47.5°	1036.0	1045.2	1031.4	1036.0	1026.8	1036.0	1031.4	1040.6
50°	787.4	796.6	792.0	796.6	796.6	787.4	801.2	782.8
52.5°	589.4	594.0	589.4	584.8	580.1	580.1	589.4	584.8
55°	419.0	414.4	414.4	414.4	419.0	419.0	414.4	409.8
57.5°	280.9	280.9	276.2	276.2	280.9	271.6	276.2	271.6
60°	179.6	179.6	179.6	179.6	175.0	179.6	179.6	179.6
62.5°	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5
65°	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
67.5°	46.0	50.6	50.6	50.6	46.0	46.0	46.0	46.0
70°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
72.5°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
75°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
77.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	4.6	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)