

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: P252198

Luminaire Tested: **LE\_6B50D010R EC6B30509024 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252198  
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\_6B50D010R EC6B30509024 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: 6146.2 lumens  
Efficiency: N/A  
Efficacy: 104.5 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

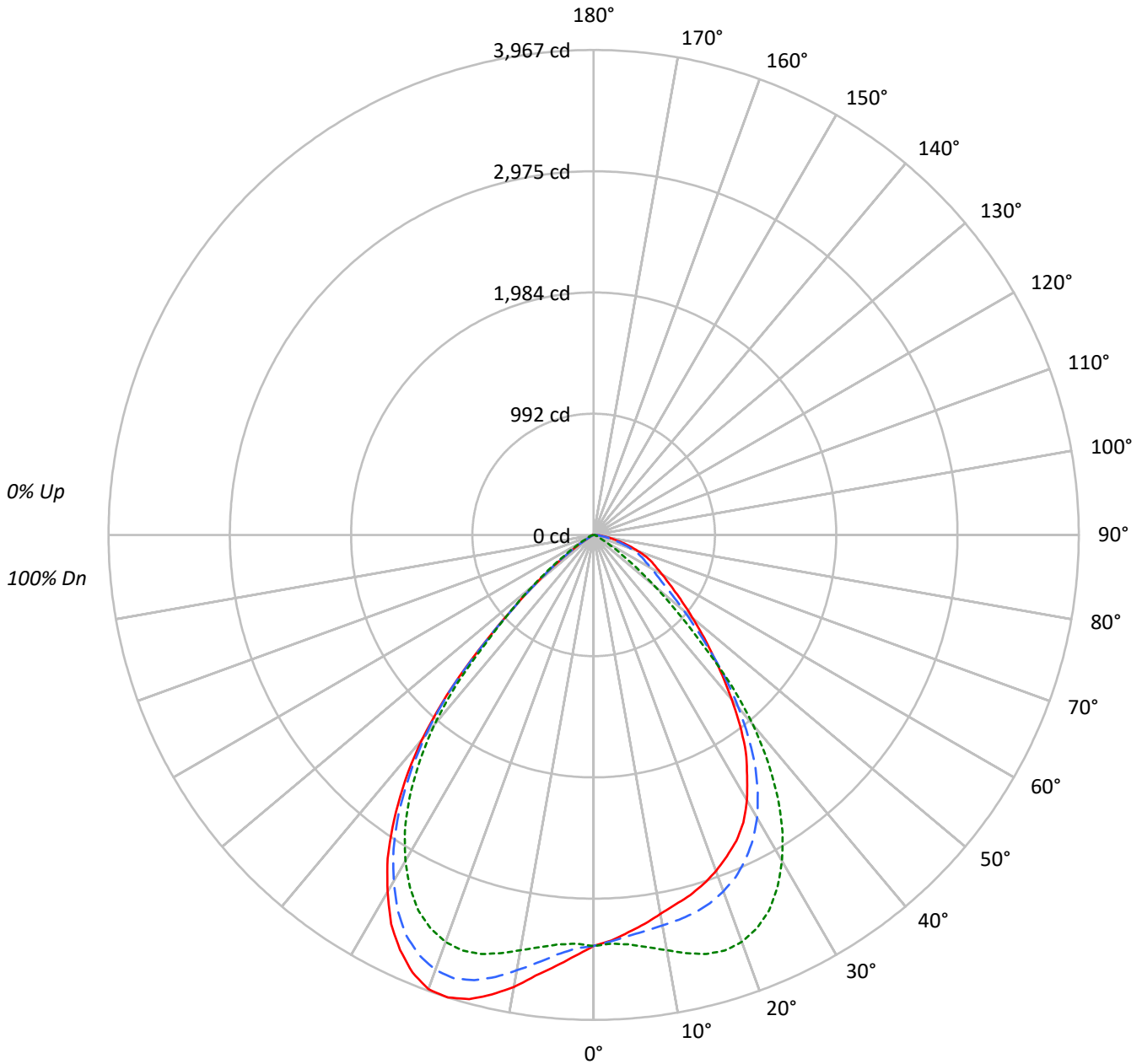
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252198

CATALOG NUMBER: LE\_6B50D010R EC6B30509024 6LBSW1LI

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

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

	0°	90°	180°
0°	219372	219372	219372
5°	213687	220210	231782
10°	208486	228499	248731
15°	206044	239700	265542
20°	203090	245947	274517
25°	198780	244130	269584
30°	188891	231997	253791
35°	172820	209177	226579
40°	149474	172750	185899
45°	126051	113300	121604
50°	107018	65577	61659
55°	92872	31450	23772
60°	83886	14679	5872
65°	81385	8429	1991
70°	72962	6753	1831
75°	59968	4840	807
80°	44709	2405	0
85°	38476	0	0



TEST NUMBER: P252198

CATALOG NUMBER: LE\_6B50D010R EC6B30509024 6LBSW1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.8	5.3
10°-20°	989.8	16.1
20°-30°	1512.4	24.6
30°-40°	1581.8	25.7
40°-50°	1026.1	16.7
50°-60°	407.4	6.6
60°-70°	193.3	3.1
70°-80°	91.9	1.5
80°-90°	18.7	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°	2827.0	46.0
0°-40°	4408.8	71.7
0°-60°	5842.3	95.1
0°-90°	6146.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6146.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3362	3362	3362	3362	3362	
5°	3263	3292	3362	3446	3539	308
15°	3051	3198	3549	3771	3932	860
25°	2761	2935	3391	3620	3745	1264
35°	2170	2302	2626	2781	2845	1342
45°	1366	1353	1228	1302	1318	1063
55°	816	694	276	215	209	740
65°	527	437	55	13	13	515
75°	238	193	19	6	3	257
85°	51	32	0	0	0	60
90°	0	0	0	0	0	



TEST NUMBER: P252198

CATALOG NUMBER: LE\_6B50D010R EC6B30509024 6LBSW1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5
2.5°	3320.8	3327.1	3291.8	3282.1	3307.9	3317.5	3320.8	3311.0	3314.2	3327.1	3327.1
5°	3262.9	3269.2	3237.1	3227.5	3253.1	3259.6	3269.2	3266.0	3275.8	3295.0	3291.8
7.5°	3208.1	3217.9	3182.5	3169.6	3201.8	3217.9	3224.2	3224.2	3237.1	3262.9	3266.0
10°	3147.1	3160.0	3127.9	3121.4	3156.8	3172.9	3176.0	3182.5	3201.8	3237.1	3243.5
12.5°	3095.6	3108.5	3086.0	3076.4	3115.0	3131.0	3137.5	3150.4	3172.9	3217.9	3224.2
15°	3050.6	3060.2	3034.6	3028.1	3066.8	3086.0	3089.2	3108.5	3137.5	3188.9	3198.5
17.5°	2992.8	2999.2	2980.0	2973.5	3012.1	3031.4	3034.6	3057.1	3092.5	3143.9	3160.0
20°	2925.2	2931.8	2912.5	2906.0	2944.6	2967.1	2970.2	2989.6	3031.4	3086.0	3102.1
22.5°	2844.9	2857.8	2835.2	2828.9	2867.4	2886.8	2896.4	2912.5	2954.2	3008.9	3031.4
25°	2761.4	2761.4	2745.2	2742.1	2777.4	2799.9	2796.8	2819.2	2861.0	2915.6	2935.0
27.5°	2652.0	2648.9	2632.8	2629.5	2668.1	2687.4	2681.0	2703.5	2742.1	2796.8	2816.0
30°	2507.4	2513.9	2491.4	2484.9	2517.0	2549.1	2546.0	2568.5	2607.0	2658.5	2671.4
32.5°	2333.8	2340.2	2337.0	2327.4	2356.2	2372.4	2382.0	2398.1	2430.2	2484.9	2497.8
35°	2169.9	2160.2	2147.4	2147.4	2176.2	2202.0	2192.4	2211.6	2243.8	2298.5	2301.6
37.5°	1967.4	1964.1	1957.8	1951.2	1983.4	1989.9	1993.0	2005.9	2034.9	2079.9	2073.4
40°	1755.1	1758.4	1755.1	1742.4	1761.6	1787.4	1784.1	1790.5	1816.2	1848.4	1838.8
42.5°	1555.9	1555.9	1555.9	1543.0	1565.5	1578.4	1584.8	1581.6	1588.0	1617.0	1604.1
45°	1366.2	1369.4	1366.2	1363.0	1366.2	1372.6	1366.2	1363.0	1363.0	1372.6	1353.4
47.5°	1202.2	1202.2	1192.6	1183.0	1192.6	1195.9	1186.2	1176.5	1173.4	1170.1	1138.0
50°	1054.4	1051.1	1048.0	1031.9	1041.5	1044.8	1031.9	1025.5	1012.6	996.5	958.0
52.5°	925.8	922.6	919.4	903.2	909.8	913.0	900.1	887.2	871.1	858.2	810.1
55°	816.5	813.2	813.2	803.6	797.2	803.6	790.8	781.1	758.6	742.6	694.4
57.5°	723.2	723.2	716.9	707.2	710.4	710.4	697.6	684.8	665.4	646.1	607.5
60°	642.9	642.9	642.9	633.2	633.2	633.2	626.9	614.0	597.9	578.6	540.0
62.5°	578.6	578.6	575.4	565.8	569.0	569.0	562.5	549.8	533.6	520.8	482.2
65°	527.2	527.2	527.2	517.5	517.5	520.8	514.4	501.5	488.6	472.5	437.1
67.5°	462.9	459.8	459.8	453.2	456.5	459.8	453.2	443.6	427.5	417.9	385.8
70°	382.5	385.8	389.0	379.4	382.5	382.5	379.4	369.6	360.0	350.4	321.5
72.5°	311.9	311.9	308.6	305.4	305.4	308.6	302.1	292.5	286.1	279.6	257.1
75°	237.9	234.6	237.9	231.5	231.5	231.5	225.0	221.8	218.6	209.0	192.9
77.5°	173.6	170.4	170.4	164.0	167.1	167.1	164.0	157.5	151.1	147.9	135.0
80°	119.0	119.0	119.0	115.8	115.8	112.5	112.5	109.2	102.9	99.6	93.2
82.5°	80.4	80.4	80.4	77.1	77.1	77.1	73.9	70.8	67.5	64.2	57.9
85°	51.4	51.4	51.4	48.2	48.2	48.2	45.0	45.0	41.8	38.6	32.1
87.5°	28.9	28.9	28.9	25.8	25.8	25.8	25.8	25.8	22.5	19.2	16.1
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: P252198

CATALOG NUMBER: LE\_6B50D010R EC6B30509024 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5
2.5°	3349.6	3304.6	3333.5	3333.5	3323.9	3349.6	3365.8	3378.5	3375.4	3346.4	3343.2
5°	3323.9	3285.4	3317.5	3320.8	3311.0	3346.4	3368.9	3385.0	3388.2	3362.5	3365.8
7.5°	3304.6	3272.5	3314.2	3327.1	3323.9	3356.0	3381.8	3407.5	3420.4	3401.0	3404.2
10°	3295.0	3269.2	3314.2	3333.5	3336.8	3372.1	3410.8	3446.1	3462.1	3449.2	3458.9
12.5°	3282.1	3266.0	3317.5	3346.4	3359.2	3394.6	3442.9	3484.6	3510.4	3503.9	3523.2
15°	3269.2	3256.4	3317.5	3359.2	3375.4	3407.5	3462.1	3523.2	3552.1	3548.9	3574.6
17.5°	3237.1	3233.9	3298.2	3343.2	3365.8	3404.2	3455.8	3529.6	3558.6	3565.0	3597.1
20°	3185.6	3185.6	3256.4	3304.6	3330.4	3365.8	3430.0	3500.8	3536.1	3542.5	3577.9
22.5°	3115.0	3121.4	3188.9	3237.1	3275.8	3301.4	3368.9	3442.9	3475.0	3484.6	3523.2
25°	3021.8	3028.1	3092.5	3140.6	3182.5	3211.4	3275.8	3343.2	3381.8	3391.4	3420.4
27.5°	2899.6	2912.5	2973.5	3021.8	3057.1	3076.4	3143.9	3214.6	3243.5	3253.1	3282.1
30°	2758.1	2761.4	2822.4	2864.2	2899.6	2915.6	2973.5	3047.5	3070.0	3079.6	3121.4
32.5°	2584.5	2581.4	2639.2	2677.8	2706.8	2726.0	2787.1	2835.2	2857.8	2873.9	2896.4
35°	2375.6	2372.4	2414.1	2459.1	2481.6	2488.1	2549.1	2600.6	2613.5	2626.4	2655.2
37.5°	2140.9	2140.9	2176.2	2198.8	2224.5	2234.1	2263.1	2321.0	2343.5	2340.2	2362.8
40°	1893.4	1880.5	1906.2	1928.8	1935.2	1938.4	1967.4	2012.4	2028.4	2028.4	2044.5
42.5°	1633.0	1613.8	1617.0	1629.8	1636.2	1613.8	1633.0	1662.0	1652.2	1665.1	1668.4
45°	1356.6	1327.6	1314.8	1285.9	1292.2	1269.8	1256.9	1263.4	1260.1	1228.0	1234.4
47.5°	1131.5	1080.1	1057.6	1015.9	1006.1	980.5	964.4	935.5	909.8	909.8	893.6
50°	941.9	890.5	845.5	797.2	781.1	758.6	723.2	684.8	665.4	646.1	630.1
52.5°	790.8	736.1	681.5	630.1	607.5	578.6	530.4	491.9	456.5	437.1	417.9
55°	668.6	607.5	549.8	495.0	466.1	437.1	389.0	344.0	302.1	276.5	260.4
57.5°	575.4	517.5	456.5	398.6	372.9	340.8	289.4	241.1	202.5	173.6	157.5
60°	507.9	450.0	395.4	334.4	308.6	276.5	221.8	176.8	138.2	112.5	93.2
62.5°	450.0	398.6	340.8	286.1	260.4	228.2	176.8	131.8	96.5	70.8	54.6
65°	408.2	356.9	308.6	254.0	231.5	199.2	151.1	109.2	77.1	54.6	38.6
67.5°	360.0	315.0	266.9	221.8	199.2	173.6	128.6	93.2	64.2	45.0	32.1
70°	302.1	266.9	225.0	183.2	167.1	144.6	106.1	77.1	51.4	35.4	25.8
72.5°	241.1	212.1	180.0	147.9	135.0	112.5	86.8	61.1	38.6	25.8	19.2
75°	183.2	160.8	135.0	112.5	99.6	86.8	64.2	45.0	28.9	19.2	12.9
77.5°	125.4	115.8	96.5	77.1	70.8	61.1	41.8	28.9	19.2	12.9	6.4
80°	86.8	77.1	64.2	51.4	45.0	38.6	25.8	19.2	9.6	6.4	3.2
82.5°	54.6	45.0	38.6	32.1	28.9	22.5	16.1	9.6	6.4	3.2	3.2
85°	28.9	25.8	22.5	16.1	16.1	12.9	9.6	6.4	3.2	0.0	0.0
87.5°	16.1	12.9	9.6	6.4	6.4	3.2	3.2	3.2	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: P252198

CATALOG NUMBER: LE\_6B50D010R EC6B30509024 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5
2.5°	3381.8	3381.8	3378.5	3417.1	3372.1	3417.1	3394.6	3417.1	3385.0	3381.8	3385.0
5°	3407.5	3417.1	3420.4	3455.8	3413.9	3468.6	3449.2	3468.6	3446.1	3452.5	3462.1
7.5°	3458.9	3475.0	3471.8	3516.8	3475.0	3536.1	3523.2	3552.1	3529.6	3536.1	3548.9
10°	3516.8	3536.1	3539.2	3584.2	3545.8	3619.6	3603.6	3635.8	3616.5	3626.1	3642.1
12.5°	3584.2	3606.8	3610.0	3661.5	3619.6	3696.8	3687.1	3719.2	3703.2	3712.9	3732.1
15°	3635.8	3667.9	3674.2	3725.8	3680.8	3761.1	3754.6	3796.5	3770.8	3786.8	3802.9
17.5°	3661.5	3690.4	3703.2	3751.5	3712.9	3793.2	3786.8	3822.1	3802.9	3819.0	3838.2
20°	3645.4	3680.8	3690.4	3738.6	3700.0	3780.4	3770.8	3806.1	3786.8	3799.6	3819.0
22.5°	3587.5	3622.9	3635.8	3680.8	3645.4	3719.2	3716.1	3748.2	3722.5	3738.6	3754.6
25°	3484.6	3523.2	3529.6	3571.4	3532.9	3610.0	3603.6	3639.0	3619.6	3629.2	3651.8
27.5°	3336.8	3381.8	3391.4	3426.8	3397.9	3462.1	3462.1	3491.1	3468.6	3468.6	3491.1
30°	3160.0	3205.0	3211.4	3240.4	3214.6	3272.5	3275.8	3304.6	3269.2	3288.5	3291.8
32.5°	2944.6	2973.5	2992.8	3018.5	2980.0	3053.9	3044.2	3066.8	3047.5	3047.5	3063.5
35°	2684.2	2719.5	2729.2	2761.4	2729.2	2787.1	2787.1	2799.9	2780.6	2780.6	2806.4
37.5°	2401.4	2427.0	2430.2	2462.4	2436.6	2484.9	2481.6	2491.4	2472.0	2484.9	2484.9
40°	2070.2	2089.5	2095.9	2112.0	2108.8	2144.1	2140.9	2147.4	2137.8	2140.9	2147.4
42.5°	1684.5	1710.1	1723.0	1735.9	1716.6	1764.9	1755.1	1764.9	1761.6	1764.9	1774.5
45°	1240.9	1260.1	1269.8	1273.0	1266.5	1295.5	1318.0	1298.8	1301.9	1295.5	1308.4
47.5°	896.9	900.1	893.6	913.0	896.9	909.8	916.1	919.4	900.1	896.9	909.8
50°	614.0	630.1	607.5	617.2	614.0	626.9	620.4	623.6	604.4	614.0	607.5
52.5°	408.2	405.0	398.6	401.9	395.4	395.4	395.4	401.9	389.0	382.5	376.1
55°	247.5	241.1	228.2	225.0	225.0	228.2	221.8	215.4	215.4	212.1	212.1
57.5°	144.6	135.0	128.6	125.4	119.0	115.8	112.5	112.5	106.1	106.1	106.1
60°	80.4	70.8	64.2	57.9	57.9	54.6	51.4	48.2	48.2	48.2	45.0
62.5°	41.8	35.4	28.9	25.8	25.8	22.5	19.2	19.2	19.2	19.2	16.1
65°	28.9	22.5	19.2	16.1	16.1	12.9	12.9	12.9	12.9	12.9	12.9
67.5°	22.5	19.2	16.1	12.9	12.9	12.9	9.6	9.6	9.6	9.6	9.6
70°	19.2	12.9	12.9	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
72.5°	12.9	12.9	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
75°	9.6	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0
80°	3.2	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: P252198

CATALOG NUMBER: LE\_6B50D010R EC6B30509024 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5	3362.5
2.5°	3413.9	3410.8	3413.9	3420.4	3407.5	3446.1	3426.8	3446.1
5°	3487.9	3491.1	3494.2	3503.9	3487.9	3536.1	3510.4	3539.2
7.5°	3584.2	3587.5	3590.8	3600.4	3590.8	3639.0	3610.0	3635.8
10°	3684.0	3690.4	3690.4	3706.5	3696.8	3741.8	3722.5	3754.6
12.5°	3777.1	3783.6	3790.0	3799.6	3793.2	3841.5	3825.4	3851.1
15°	3851.1	3864.0	3867.1	3880.0	3873.6	3925.0	3905.8	3931.5
17.5°	3886.5	3899.4	3899.4	3915.4	3909.0	3963.6	3937.9	3966.9
20°	3867.1	3876.9	3880.0	3896.1	3889.6	3944.4	3918.6	3954.0
22.5°	3806.1	3809.4	3812.5	3828.6	3825.4	3873.6	3851.1	3873.6
25°	3693.6	3703.2	3700.0	3712.9	3712.9	3751.5	3725.8	3745.0
27.5°	3532.9	3542.5	3542.5	3558.6	3545.8	3584.2	3558.6	3587.5
30°	3336.8	3346.4	3340.0	3352.9	3340.0	3378.5	3359.2	3368.9
32.5°	3102.1	3102.1	3105.4	3108.5	3102.1	3137.5	3118.1	3137.5
35°	2822.4	2828.9	2832.1	2835.2	2828.9	2854.6	2832.1	2844.9
37.5°	2507.4	2523.5	2520.2	2523.5	2513.9	2546.0	2526.6	2533.1
40°	2169.9	2169.9	2166.6	2173.1	2163.4	2189.1	2176.2	2182.8
42.5°	1777.6	1787.4	1774.5	1790.5	1764.9	1800.1	1787.4	1777.6
45°	1334.1	1321.2	1318.0	1321.2	1311.5	1314.8	1324.4	1318.0
47.5°	909.8	909.8	903.2	893.6	906.5	909.8	896.9	896.9
50°	610.8	610.8	604.4	601.1	607.5	604.4	597.9	607.5
52.5°	389.0	376.1	376.1	382.5	376.1	369.6	379.4	372.9
55°	212.1	205.8	205.8	212.1	205.8	205.8	202.5	209.0
57.5°	102.9	106.1	102.9	102.9	102.9	102.9	99.6	102.9
60°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
62.5°	19.2	19.2	16.1	16.1	16.1	16.1	16.1	16.1
65°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
67.5°	9.6	9.6	9.6	9.6	9.6	12.9	9.6	9.6
70°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
72.5°	9.6	9.6	12.9	12.9	12.9	12.9	12.9	12.9
75°	6.4	6.4	6.4	3.2	3.2	3.2	3.2	3.2
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



Report Generated By E9808895 / USPTCWHP6082093





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















(END OF REPORT)