

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: P252180

Luminaire Tested: **LE\_6B40D010 EC6B30508027 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252180  
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\_6B40D010 EC6B30508027 6LBSW1LI  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6358.7 lumens  
Efficiency: N/A  
Efficacy: 147.9 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

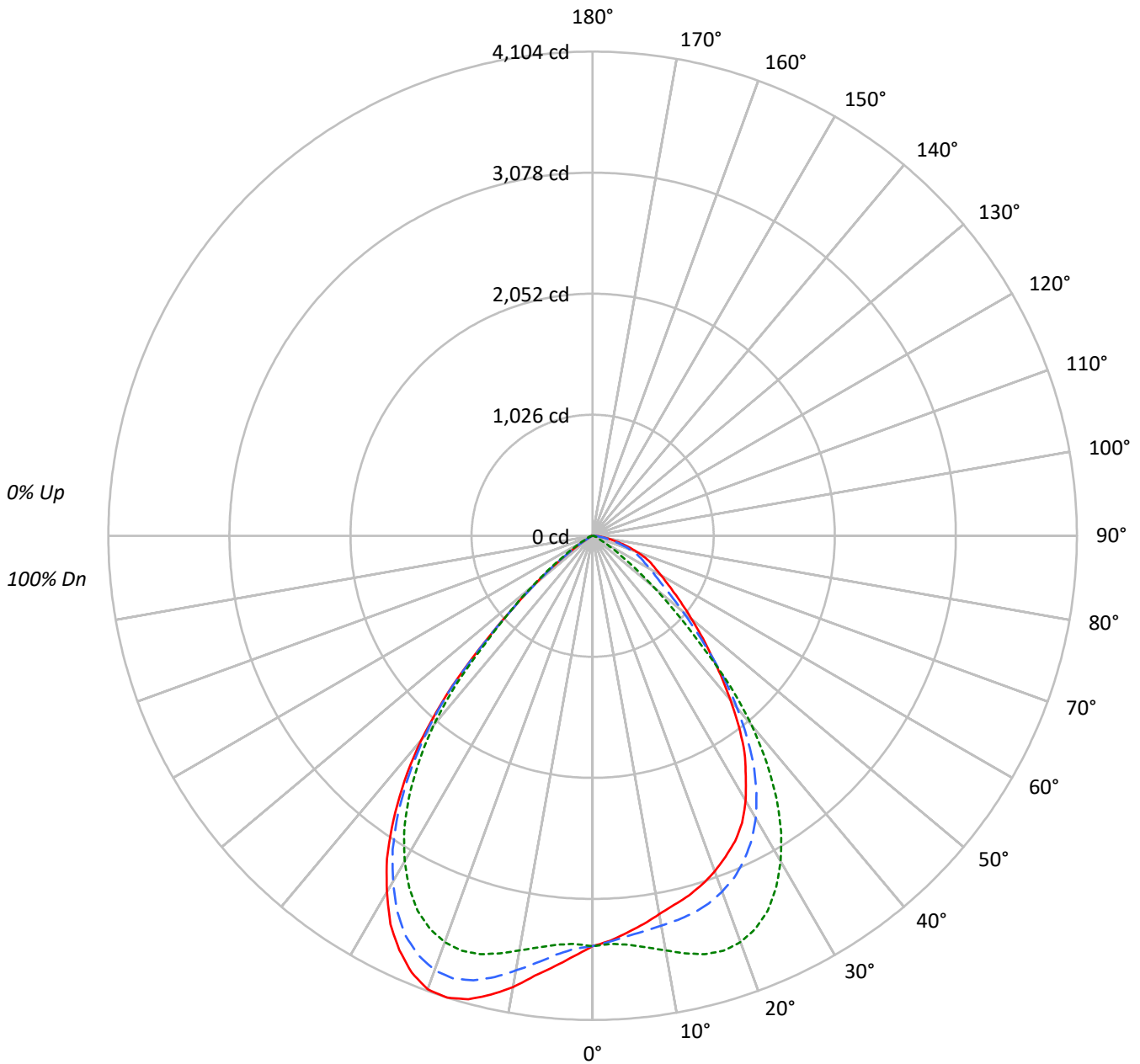
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	226959	226959	226959
5°	221067	227826	239798
10°	215694	236403	257337
15°	213170	247987	274721
20°	210116	254452	284001
25°	205654	252567	278906
30°	195422	240020	262567
35°	178793	216401	234409
40°	154652	178720	192312
45°	130415	117222	125802
50°	110722	67850	63801
55°	96091	32531	24580
60°	86783	15188	6067
65°	84195	8722	2038
70°	75499	6981	1908
75°	62035	5041	857
80°	46212	2480	0
85°	39823	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.0	5.3
10°-20°	1024.0	16.1
20°-30°	1564.7	24.6
30°-40°	1636.5	25.7
40°-50°	1061.6	16.7
50°-60°	421.5	6.6
60°-70°	199.9	3.1
70°-80°	95.1	1.5
80°-90°	19.4	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°	2924.7	46.0
0°-40°	4561.2	71.7
0°-60°	6044.3	95.1
0°-90°	6358.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6358.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3479	3479	3479	3479	3479	
5°	3376	3406	3479	3565	3662	319
15°	3156	3309	3672	3901	4067	889
25°	2857	3036	3509	3745	3874	1308
35°	2245	2381	2717	2877	2943	1388
45°	1414	1400	1270	1347	1364	1100
55°	845	718	286	223	216	765
65°	545	452	56	13	13	533
75°	246	200	20	7	3	265
85°	53	33	0	0	0	62
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°	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8
2.5°	3435.5	3442.1	3405.6	3395.6	3422.2	3432.1	3435.5	3425.5	3428.9	3442.1	3442.1
5°	3375.6	3382.2	3349.0	3339.0	3365.6	3372.4	3382.2	3379.0	3389.0	3408.9	3405.6
7.5°	3319.1	3329.1	3292.5	3279.2	3312.5	3329.1	3335.8	3335.8	3349.0	3375.6	3379.0
10°	3255.9	3269.2	3236.0	3229.2	3265.9	3282.5	3285.9	3292.5	3312.5	3349.0	3355.6
12.5°	3202.8	3216.0	3192.8	3182.8	3222.6	3239.2	3245.9	3259.2	3282.5	3329.1	3335.8
15°	3156.1	3166.1	3139.5	3132.9	3172.8	3192.8	3196.0	3216.0	3245.9	3299.1	3309.1
17.5°	3096.2	3102.9	3083.0	3076.4	3116.2	3136.1	3139.5	3162.8	3199.4	3252.6	3269.2
20°	3026.4	3033.1	3013.1	3006.5	3046.4	3069.6	3073.0	3093.0	3136.1	3192.8	3209.4
22.5°	2943.2	2956.6	2933.4	2926.6	2966.6	2986.5	2996.5	3013.1	3056.4	3112.9	3136.1
25°	2856.9	2856.9	2840.2	2836.9	2873.5	2896.8	2893.4	2916.6	2959.9	3016.5	3036.4
27.5°	2743.8	2740.4	2723.8	2720.5	2760.4	2780.4	2773.6	2797.0	2836.9	2893.4	2913.4
30°	2594.1	2600.8	2577.5	2570.8	2604.1	2637.4	2634.0	2657.2	2697.1	2750.4	2763.8
32.5°	2414.5	2421.1	2417.9	2407.9	2437.8	2454.4	2464.4	2481.0	2514.2	2570.8	2584.1
35°	2244.9	2234.9	2221.6	2221.6	2251.5	2278.1	2268.1	2288.1	2321.4	2377.9	2381.2
37.5°	2035.4	2032.0	2025.4	2018.8	2052.0	2058.6	2062.0	2075.2	2105.2	2151.8	2145.1
40°	1815.9	1819.1	1815.9	1802.5	1822.5	1849.1	1845.8	1852.5	1879.0	1912.2	1902.4
42.5°	1609.6	1609.6	1609.6	1596.4	1619.6	1633.0	1639.6	1636.2	1642.9	1672.9	1659.5
45°	1413.5	1416.8	1413.5	1410.1	1413.5	1420.1	1413.5	1410.1	1410.1	1420.1	1400.1
47.5°	1243.9	1243.9	1233.9	1223.9	1233.9	1237.1	1227.2	1217.2	1213.9	1210.6	1177.4
50°	1090.9	1087.5	1084.2	1067.6	1077.5	1080.9	1067.6	1060.9	1047.6	1031.0	991.1
52.5°	957.9	954.5	951.1	934.5	941.2	944.5	931.2	917.9	901.2	888.0	838.1
55°	844.8	841.4	841.4	831.5	824.8	831.5	818.1	808.1	784.9	768.2	718.4
57.5°	748.2	748.2	741.6	731.6	735.0	735.0	721.8	708.4	688.4	668.5	628.6
60°	665.1	665.1	665.1	655.1	655.1	655.1	648.5	635.2	618.6	598.6	558.8
62.5°	598.6	598.6	595.2	585.4	588.6	588.6	582.0	568.8	552.1	538.8	498.9
65°	545.4	545.4	545.4	535.5	535.5	538.8	532.1	518.9	505.5	488.9	452.2
67.5°	478.9	475.6	475.6	468.9	472.2	475.6	468.9	459.0	442.4	432.4	399.1
70°	395.8	399.1	402.4	392.5	395.8	395.8	392.5	382.5	372.5	362.5	332.6
72.5°	322.6	322.6	319.2	316.0	316.0	319.2	312.6	302.6	296.0	289.4	266.0
75°	246.1	242.8	246.1	239.5	239.5	239.5	232.8	229.5	226.1	216.1	199.5
77.5°	179.6	176.2	176.2	169.6	173.0	173.0	169.6	163.0	156.2	153.0	139.6
80°	123.0	123.0	123.0	119.8	119.8	116.4	116.4	113.1	106.4	103.1	96.5
82.5°	83.1	83.1	83.1	79.9	79.9	79.9	76.5	73.1	69.9	66.5	59.9
85°	53.2	53.2	53.2	49.9	49.9	49.9	46.5	46.5	43.2	39.9	33.2
87.5°	29.9	29.9	29.9	26.6	26.6	26.6	26.6	26.6	23.2	20.0	16.6
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°	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8
2.5°	3465.4	3418.9	3448.8	3448.8	3438.9	3465.4	3482.1	3495.4	3492.0	3462.1	3458.8
5°	3438.9	3398.9	3432.1	3435.5	3425.5	3462.1	3485.4	3502.0	3505.4	3478.8	3482.1
7.5°	3418.9	3385.6	3428.9	3442.1	3438.9	3472.1	3498.8	3525.2	3538.6	3518.6	3522.0
10°	3408.9	3382.2	3428.9	3448.8	3452.1	3488.8	3528.6	3565.2	3581.9	3568.5	3578.5
12.5°	3395.6	3379.0	3432.1	3462.1	3475.4	3512.0	3561.9	3605.1	3631.8	3625.1	3645.0
15°	3382.2	3369.0	3432.1	3475.4	3492.0	3525.2	3581.9	3645.0	3675.0	3671.6	3698.2
17.5°	3349.0	3345.8	3412.2	3458.8	3482.1	3522.0	3575.1	3651.6	3681.6	3688.2	3721.5
20°	3295.9	3295.9	3369.0	3418.9	3445.5	3482.1	3548.6	3621.8	3658.4	3665.0	3701.6
22.5°	3222.6	3229.2	3299.1	3349.0	3389.0	3415.5	3485.4	3561.9	3595.1	3605.1	3645.0
25°	3126.2	3132.9	3199.4	3249.2	3292.5	3322.4	3389.0	3458.8	3498.8	3508.6	3538.6
27.5°	2999.9	3013.1	3076.4	3126.2	3162.8	3182.8	3252.6	3325.8	3355.6	3365.6	3395.6
30°	2853.5	2856.9	2920.0	2963.2	2999.9	3016.5	3076.4	3152.9	3176.1	3186.1	3229.2
32.5°	2673.9	2670.6	2730.5	2770.4	2800.2	2820.2	2883.4	2933.4	2956.6	2973.2	2996.5
35°	2457.8	2454.4	2497.6	2544.2	2567.5	2574.1	2637.4	2690.5	2703.9	2717.1	2747.1
37.5°	2215.0	2215.0	2251.5	2274.9	2301.4	2311.4	2341.4	2401.2	2424.5	2421.1	2444.4
40°	1958.9	1945.6	1972.1	1995.5	2002.1	2005.4	2035.4	2081.9	2098.5	2098.5	2115.1
42.5°	1689.5	1669.5	1672.9	1686.1	1692.8	1669.5	1689.5	1719.4	1709.4	1722.8	1726.1
45°	1403.5	1373.5	1360.2	1330.2	1337.0	1313.6	1300.4	1307.0	1303.8	1270.5	1277.1
47.5°	1170.6	1117.5	1094.1	1051.0	1041.0	1014.4	997.8	967.8	941.2	941.2	924.5
50°	974.5	921.2	874.6	824.8	808.1	784.9	748.2	708.4	688.4	668.5	651.9
52.5°	818.1	761.6	705.0	651.9	628.6	598.6	548.8	508.9	472.2	452.2	432.4
55°	691.8	628.6	568.8	512.1	482.2	452.2	402.4	355.9	312.6	286.0	269.4
57.5°	595.2	535.5	472.2	412.4	385.8	352.5	299.4	249.4	209.5	179.6	163.0
60°	525.5	465.6	409.1	345.9	319.2	286.0	229.5	182.9	143.0	116.4	96.5
62.5°	465.6	412.4	352.5	296.0	269.4	236.1	182.9	136.4	99.8	73.1	56.5
65°	422.4	369.1	319.2	262.8	239.5	206.2	156.2	113.1	79.9	56.5	39.9
67.5°	372.5	325.9	276.0	229.5	206.2	179.6	133.0	96.5	66.5	46.5	33.2
70°	312.6	276.0	232.8	189.6	173.0	149.6	109.8	79.9	53.2	36.6	26.6
72.5°	249.4	219.5	186.2	153.0	139.6	116.4	89.8	63.2	39.9	26.6	20.0
75°	189.6	166.2	139.6	116.4	103.1	89.8	66.5	46.5	29.9	20.0	13.2
77.5°	129.8	119.8	99.8	79.9	73.1	63.2	43.2	29.9	20.0	13.2	6.6
80°	89.8	79.9	66.5	53.2	46.5	39.9	26.6	20.0	10.0	6.6	3.4
82.5°	56.5	46.5	39.9	33.2	29.9	23.2	16.6	10.0	6.6	3.4	3.4
85°	29.9	26.6	23.2	16.6	16.6	13.2	10.0	6.6	3.4	0.0	0.0
87.5°	16.6	13.2	10.0	6.6	6.6	3.4	3.4	3.4	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°	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8
2.5°	3498.8	3498.8	3495.4	3535.2	3488.8	3535.2	3512.0	3535.2	3502.0	3498.8	3502.0
5°	3525.2	3535.2	3538.6	3575.1	3532.0	3588.5	3568.5	3588.5	3565.2	3571.9	3581.9
7.5°	3578.5	3595.1	3591.9	3638.4	3595.1	3658.4	3645.0	3675.0	3651.6	3658.4	3671.6
10°	3638.4	3658.4	3661.6	3708.2	3668.2	3744.8	3728.1	3761.4	3741.5	3751.5	3768.1
12.5°	3708.2	3731.5	3734.9	3788.0	3744.8	3824.6	3814.6	3847.9	3831.2	3841.2	3861.2
15°	3761.4	3794.6	3801.4	3854.5	3808.0	3891.1	3884.5	3927.8	3901.1	3917.8	3934.4
17.5°	3788.0	3818.0	3831.2	3881.1	3841.2	3924.4	3917.8	3954.4	3934.4	3951.0	3971.0
20°	3771.4	3808.0	3818.0	3867.9	3828.0	3911.1	3901.1	3937.8	3917.8	3931.0	3951.0
22.5°	3711.5	3748.1	3761.4	3808.0	3771.4	3847.9	3844.6	3877.9	3851.2	3867.9	3884.5
25°	3605.1	3645.0	3651.6	3694.9	3655.0	3734.9	3728.1	3764.8	3744.8	3754.8	3778.0
27.5°	3452.1	3498.8	3508.6	3545.2	3515.4	3581.9	3581.9	3611.8	3588.5	3588.5	3611.8
30°	3269.2	3315.8	3322.4	3352.4	3325.8	3385.6	3389.0	3418.9	3382.2	3402.2	3405.6
32.5°	3046.4	3076.4	3096.2	3122.9	3083.0	3159.5	3149.5	3172.8	3152.9	3152.9	3169.5
35°	2777.0	2813.6	2823.6	2856.9	2823.6	2883.4	2883.4	2896.8	2876.8	2876.8	2903.4
37.5°	2484.4	2511.0	2514.2	2547.5	2520.9	2570.8	2567.5	2577.5	2557.5	2570.8	2570.8
40°	2141.8	2161.8	2168.4	2185.0	2181.8	2218.2	2215.0	2221.6	2211.6	2215.0	2221.6
42.5°	1742.8	1769.2	1782.6	1795.9	1776.0	1825.9	1815.9	1825.9	1822.5	1825.9	1835.9
45°	1283.8	1303.8	1313.6	1317.0	1310.4	1340.2	1363.5	1343.6	1346.9	1340.2	1353.6
47.5°	927.9	931.2	924.5	944.5	927.9	941.2	947.9	951.1	931.2	927.9	941.2
50°	635.2	651.9	628.6	638.5	635.2	648.5	641.9	645.2	625.2	635.2	628.6
52.5°	422.4	419.0	412.4	415.8	409.1	409.1	409.1	415.8	402.4	395.8	389.1
55°	256.1	249.4	236.1	232.8	232.8	236.1	229.5	222.9	222.9	219.5	219.5
57.5°	149.6	139.6	133.0	129.8	123.0	119.8	116.4	116.4	109.8	109.8	109.8
60°	83.1	73.1	66.5	59.9	59.9	56.5	53.2	49.9	49.9	49.9	46.5
62.5°	43.2	36.6	29.9	26.6	26.6	23.2	20.0	20.0	20.0	20.0	16.6
65°	29.9	23.2	20.0	16.6	16.6	13.2	13.2	13.2	13.2	13.2	13.2
67.5°	23.2	20.0	16.6	13.2	13.2	13.2	10.0	10.0	10.0	10.0	10.0
70°	20.0	13.2	13.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
72.5°	13.2	13.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
75°	10.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0
80°	3.4	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: P252180

CATALOG NUMBER: LE\_6B40D010 EC6B30508027 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8
2.5°	3532.0	3528.6	3532.0	3538.6	3525.2	3565.2	3545.2	3565.2
5°	3608.5	3611.8	3615.1	3625.1	3608.5	3658.4	3631.8	3661.6
7.5°	3708.2	3711.5	3714.9	3724.9	3714.9	3764.8	3734.9	3761.4
10°	3811.4	3818.0	3818.0	3834.6	3824.6	3871.1	3851.2	3884.5
12.5°	3907.8	3914.4	3921.1	3931.0	3924.4	3974.2	3957.6	3984.2
15°	3984.2	3997.5	4000.9	4014.1	4007.5	4060.8	4040.8	4067.4
17.5°	4020.9	4034.1	4034.1	4050.8	4044.1	4100.6	4074.0	4104.0
20°	4000.9	4010.9	4014.1	4030.9	4024.1	4080.8	4054.1	4090.6
22.5°	3937.8	3941.0	3944.4	3961.0	3957.6	4007.5	3984.2	4007.5
25°	3821.2	3831.2	3828.0	3841.2	3841.2	3881.1	3854.5	3874.5
27.5°	3655.0	3665.0	3665.0	3681.6	3668.2	3708.2	3681.6	3711.5
30°	3452.1	3462.1	3455.5	3468.8	3455.5	3495.4	3475.4	3485.4
32.5°	3209.4	3209.4	3212.6	3216.0	3209.4	3245.9	3226.0	3245.9
35°	2920.0	2926.6	2930.0	2933.4	2926.6	2953.2	2930.0	2943.2
37.5°	2594.1	2610.8	2607.4	2610.8	2600.8	2634.0	2614.0	2620.8
40°	2244.9	2244.9	2241.5	2248.2	2238.2	2264.9	2251.5	2258.1
42.5°	1839.1	1849.1	1835.9	1852.5	1825.9	1862.4	1849.1	1839.1
45°	1380.2	1366.9	1363.5	1366.9	1356.9	1360.2	1370.2	1363.5
47.5°	941.2	941.2	934.5	924.5	937.9	941.2	927.9	927.9
50°	631.9	631.9	625.2	621.9	628.6	625.2	618.6	628.6
52.5°	402.4	389.1	389.1	395.8	389.1	382.5	392.5	385.8
55°	219.5	212.9	212.9	219.5	212.9	212.9	209.5	216.1
57.5°	106.4	109.8	106.4	106.4	106.4	106.4	103.1	106.4
60°	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
62.5°	20.0	20.0	16.6	16.6	16.6	16.6	16.6	16.6
65°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
67.5°	10.0	10.0	10.0	10.0	10.0	13.2	10.0	10.0
70°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
72.5°	10.0	10.0	13.2	13.2	13.2	13.2	13.2	13.2
75°	6.6	6.6	6.6	3.4	3.4	3.4	3.4	3.4
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)