

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: P252736

Luminaire Tested: **LE\_6B60D010R EC6B60709050 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60709050 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6073.8 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

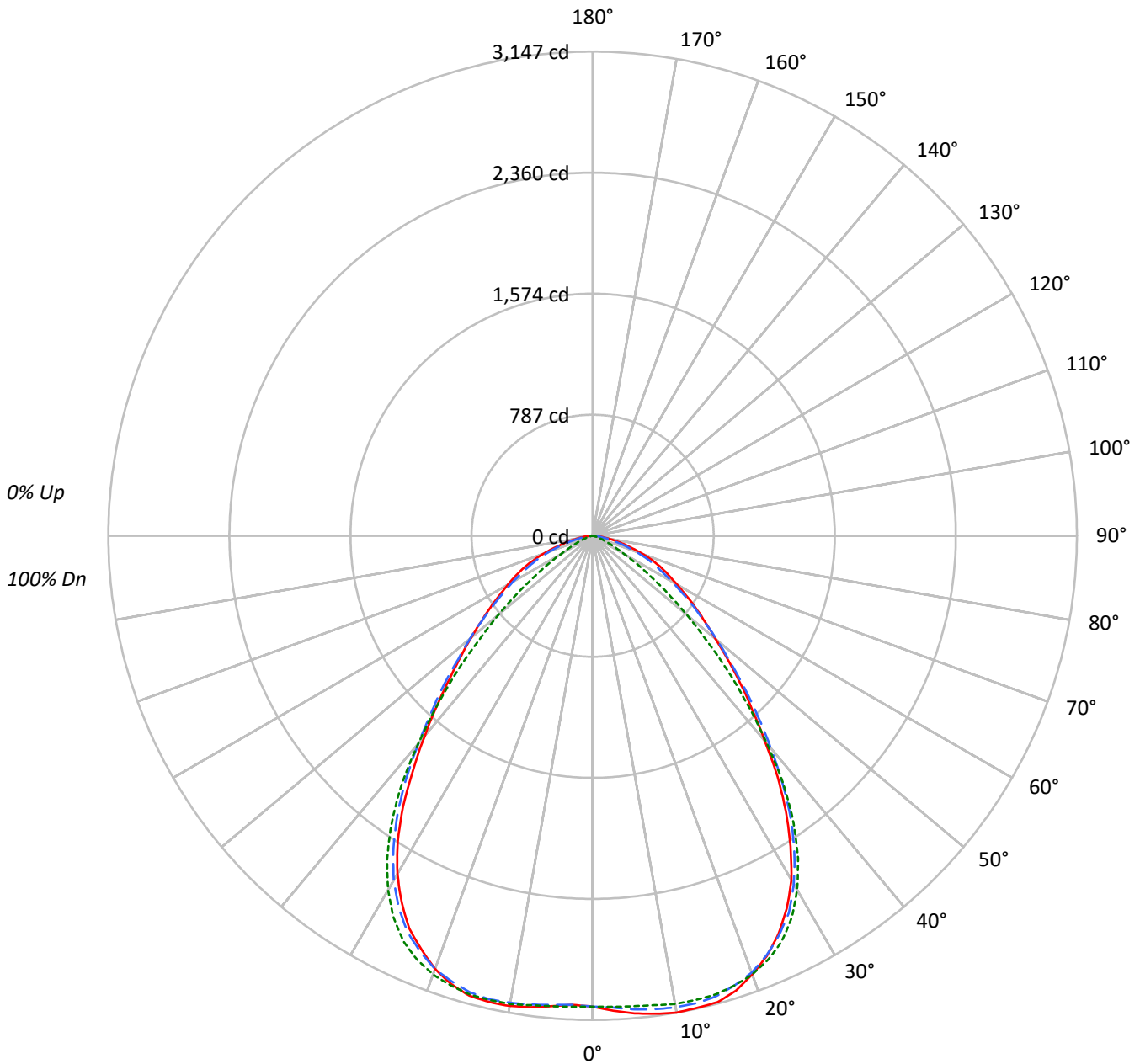
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252736

CATALOG NUMBER: LE\_6B60D010R EC6B60709050 6LBDW1H

### Luminous Intensity Polar Plot





TEST NUMBER: P252736

CATALOG NUMBER: LE\_6B60D010R EC6B60709050 6LBDW1H

**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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

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

	0°	90°	180°
0°	199643	199643	199643
5°	204093	200975	200975
10°	208453	204730	205591
15°	211947	208435	209029
20°	210650	210650	207943
25°	205633	209376	202840
30°	194661	200198	191076
35°	174429	181318	170988
40°	148188	150028	144492
45°	125396	114611	121004
50°	105871	80832	104551
55°	93042	52186	92064
60°	82451	31055	83012
65°	76167	18710	76167
70°	66038	10720	64397
75°	52380	6554	49103
80°	39036	4884	37383
85°	35631	3294	32337



TEST NUMBER: P252736

CATALOG NUMBER: LE\_6B60D010R EC6B60709050 6LBDW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.6	4.9
10°-20°	871.9	14.4
20°-30°	1311.4	21.6
30°-40°	1378.8	22.7
40°-50°	1030.0	17.0
50°-60°	641.2	10.6
60°-70°	364.7	6.0
70°-80°	150.2	2.5
80°-90°	31.0	0.5
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°	2477.9	40.8
0°-40°	3856.7	63.5
0°-60°	5527.9	91.0
0°-90°	6073.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6073.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3060	3060	3060	3060	3060	
5°	3116	3090	3069	3060	3069	298
15°	3138	3099	3086	3073	3095	882
25°	2857	2865	2909	2844	2818	1308
35°	2190	2246	2277	2212	2147	1359
45°	1359	1389	1242	1363	1312	1053
55°	818	801	459	788	809	736
65°	493	442	121	442	493	486
75°	208	164	26	160	195	226
85°	48	30	4	26	43	53
90°	0	0	0	0	0	



TEST NUMBER: P252736

CATALOG NUMBER: LE\_6B60D010R EC6B60709050 6LBDW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1
2.5°	3090.4	3086.0	3090.4	3081.8	3077.4	3077.4	3081.8	3073.1	3068.8	3073.1	3068.8
5°	3116.4	3107.8	3112.0	3107.8	3099.0	3099.0	3103.4	3090.4	3090.4	3094.8	3090.4
7.5°	3133.6	3133.6	3133.6	3125.0	3120.6	3116.4	3125.0	3112.0	3107.8	3107.8	3103.4
10°	3146.6	3142.4	3146.6	3138.0	3129.4	3125.0	3133.6	3125.0	3116.4	3125.0	3112.0
12.5°	3142.4	3142.4	3142.4	3138.0	3129.4	3125.0	3133.6	3120.6	3116.4	3120.6	3112.0
15°	3138.0	3125.0	3129.4	3125.0	3112.0	3112.0	3116.4	3103.4	3094.8	3107.8	3099.0
17.5°	3099.0	3090.4	3094.8	3086.0	3077.4	3073.1	3077.4	3073.1	3064.4	3073.1	3064.4
20°	3034.1	3034.1	3038.5	3029.8	3021.1	3016.8	3025.5	3016.8	3008.1	3021.1	3021.1
22.5°	2956.2	2956.2	2956.2	2951.9	2947.5	2947.5	2947.5	2943.2	2938.9	2947.5	2951.9
25°	2856.6	2852.4	2856.6	2861.0	2856.6	2852.4	2856.6	2856.6	2848.0	2865.4	2865.4
27.5°	2731.1	2731.1	2739.8	2735.5	2735.5	2731.1	2739.8	2739.8	2735.5	2748.5	2761.4
30°	2584.0	2575.4	2584.0	2584.0	2588.2	2588.2	2592.6	2592.6	2592.6	2605.6	2614.2
32.5°	2393.5	2397.9	2410.9	2406.5	2402.2	2415.1	2415.1	2423.9	2428.1	2436.9	2441.1
35°	2190.1	2194.4	2194.4	2198.8	2207.4	2198.8	2220.4	2216.1	2220.4	2237.8	2246.4
37.5°	1973.8	1960.8	1982.4	1973.8	1978.0	1978.0	1986.6	1991.0	2004.0	2025.6	2025.6
40°	1740.0	1744.2	1753.0	1757.2	1761.6	1761.6	1761.6	1774.6	1778.9	1804.9	1800.5
42.5°	1536.5	1536.5	1545.2	1549.5	1549.5	1549.5	1549.5	1562.5	1571.1	1579.9	1588.5
45°	1359.1	1346.1	1354.8	1354.8	1363.4	1359.1	1367.8	1376.4	1380.8	1393.8	1389.4
47.5°	1190.2	1186.0	1190.2	1194.6	1190.2	1194.6	1198.9	1203.2	1207.6	1207.6	1207.6
50°	1043.1	1043.1	1047.5	1051.8	1051.8	1051.8	1051.8	1056.1	1056.1	1064.8	1056.1
52.5°	921.9	926.2	926.2	921.9	926.2	926.2	930.6	930.6	926.2	926.2	913.2
55°	818.0	813.8	818.0	813.8	818.0	818.0	813.8	813.8	809.4	805.0	800.8
57.5°	718.5	718.5	718.5	718.5	714.1	718.5	714.1	709.9	709.9	701.1	688.2
60°	631.9	631.9	631.9	631.9	631.9	627.6	631.9	627.6	619.0	610.2	593.0
62.5°	558.4	554.0	558.4	554.0	554.0	549.8	549.8	545.4	536.8	528.0	510.8
65°	493.4	497.8	493.4	493.4	489.1	484.8	484.8	480.5	467.5	458.8	441.5
67.5°	424.1	419.9	419.9	419.9	415.5	415.5	415.5	406.9	398.2	385.2	367.9
70°	346.2	346.2	346.2	341.9	341.9	337.6	337.6	333.2	324.6	316.0	294.4
72.5°	272.6	272.6	272.6	264.0	268.4	264.0	264.0	255.4	251.0	238.0	225.1
75°	207.8	207.8	203.4	203.4	199.1	194.8	194.8	190.5	186.1	177.5	164.5
77.5°	151.5	151.5	151.5	147.1	142.9	138.5	138.5	134.1	129.9	125.5	116.9
80°	103.9	103.9	103.9	103.9	99.5	95.2	95.2	90.9	90.9	86.6	77.9
82.5°	69.2	69.2	69.2	69.2	64.9	64.9	64.9	60.6	56.2	56.2	47.6
85°	47.6	47.6	43.2	43.2	43.2	43.2	39.0	39.0	34.6	30.2	30.2
87.5°	26.0	26.0	26.0	26.0	21.6	21.6	21.6	21.6	17.4	17.4	13.0
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: P252736

CATALOG NUMBER: LE\_6B60D010R EC6B60709050 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1
2.5°	3081.8	3081.8	3077.4	3064.4	3068.8	3064.4	3068.8	3064.4	3051.4	3064.4	3051.4
5°	3099.0	3103.4	3094.8	3077.4	3081.8	3077.4	3077.4	3073.1	3060.1	3068.8	3060.1
7.5°	3116.4	3112.0	3107.8	3090.4	3094.8	3090.4	3090.4	3081.8	3068.8	3077.4	3064.4
10°	3125.0	3125.0	3116.4	3099.0	3099.0	3094.8	3099.0	3094.8	3077.4	3090.4	3081.8
12.5°	3125.0	3120.6	3120.6	3099.0	3103.4	3099.0	3103.4	3094.8	3081.8	3090.4	3086.0
15°	3112.0	3112.0	3107.8	3086.0	3090.4	3090.4	3094.8	3086.0	3073.1	3086.0	3077.4
17.5°	3086.0	3086.0	3081.8	3064.4	3073.1	3073.1	3077.4	3068.8	3055.8	3064.4	3064.4
20°	3034.1	3038.5	3038.5	3025.5	3034.1	3034.1	3038.5	3034.1	3029.8	3034.1	3025.5
22.5°	2973.5	2982.1	2982.1	2969.2	2977.9	2977.9	2990.9	2986.5	2977.9	2982.1	2977.9
25°	2882.6	2891.2	2900.0	2891.2	2900.0	2900.0	2912.9	2908.6	2900.0	2908.6	2895.6
27.5°	2778.8	2783.1	2791.8	2783.1	2796.0	2791.8	2804.8	2800.4	2787.4	2800.4	2796.0
30°	2631.6	2648.9	2661.9	2648.9	2661.9	2661.9	2670.5	2666.2	2661.9	2657.5	2657.5
32.5°	2467.1	2484.4	2484.4	2480.1	2488.8	2488.8	2493.1	2484.4	2480.1	2484.4	2488.8
35°	2263.6	2272.4	2281.0	2276.6	2281.0	2285.4	2281.0	2285.4	2272.4	2276.6	2276.6
37.5°	2043.0	2051.6	2051.6	2038.6	2047.2	2047.2	2038.6	2038.6	2030.0	2038.6	2021.2
40°	1809.2	1800.5	1804.9	1796.2	1787.6	1787.6	1783.2	1765.9	1757.2	1761.6	1765.9
42.5°	1579.9	1579.9	1566.9	1545.2	1523.5	1523.5	1510.6	1501.9	1484.6	1493.2	1488.9
45°	1385.0	1363.4	1346.1	1311.5	1298.5	1289.9	1268.1	1246.5	1237.9	1242.2	1237.9
47.5°	1198.9	1181.6	1138.4	1090.8	1077.8	1064.8	1038.8	1012.9	1004.1	995.5	995.5
50°	1043.1	1012.9	965.2	913.2	891.6	870.0	835.4	809.4	792.1	796.4	796.4
52.5°	900.2	865.6	809.4	744.5	718.5	692.5	662.2	631.9	619.0	614.6	614.6
55°	774.8	735.8	679.5	606.0	584.4	554.0	515.1	480.5	463.1	458.8	467.5
57.5°	662.2	627.6	562.6	489.1	463.1	432.9	393.9	363.6	341.9	337.6	341.9
60°	571.4	523.8	467.5	398.2	363.6	337.6	294.4	268.4	246.8	238.0	242.4
62.5°	480.5	437.1	380.9	311.6	285.6	259.8	220.8	190.5	173.1	168.8	173.1
65°	411.1	367.9	316.0	255.4	229.4	203.4	168.8	138.5	125.5	121.2	125.5
67.5°	341.9	303.0	259.8	203.4	181.8	160.1	125.5	103.9	86.6	82.2	86.6
70°	277.0	242.4	199.1	160.1	138.5	121.2	95.2	73.6	60.6	56.2	60.6
72.5°	207.8	181.8	151.5	116.9	103.9	90.9	69.2	52.0	43.2	39.0	43.2
75°	151.5	129.9	108.2	82.2	73.6	64.9	47.6	34.6	30.2	26.0	30.2
77.5°	103.9	90.9	73.6	56.2	47.6	43.2	30.2	26.0	21.6	17.4	17.4
80°	69.2	60.6	47.6	39.0	34.6	30.2	21.6	17.4	13.0	13.0	13.0
82.5°	43.2	34.6	30.2	21.6	17.4	17.4	13.0	8.6	8.6	8.6	8.6
85°	26.0	21.6	17.4	13.0	8.6	8.6	4.4	4.4	4.4	4.4	4.4
87.5°	13.0	8.6	8.6	4.4	4.4	4.4	4.4	4.4	0.0	0.0	4.4
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: P252736

CATALOG NUMBER: LE\_6B60D010R EC6B60709050 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1
2.5°	3060.1	3051.4	3051.4	3055.8	3060.1	3064.4	3055.8	3051.4	3051.4	3064.4	3055.8
5°	3060.1	3055.8	3055.8	3055.8	3064.4	3068.8	3060.1	3055.8	3060.1	3073.1	3068.8
7.5°	3073.1	3064.4	3068.8	3068.8	3073.1	3081.8	3073.1	3068.8	3073.1	3086.0	3077.4
10°	3081.8	3073.1	3077.4	3073.1	3086.0	3090.4	3081.8	3077.4	3081.8	3099.0	3094.8
12.5°	3086.0	3081.8	3081.8	3077.4	3090.4	3094.8	3086.0	3081.8	3086.0	3099.0	3094.8
15°	3077.4	3073.1	3073.1	3073.1	3081.8	3090.4	3077.4	3073.1	3073.1	3086.0	3081.8
17.5°	3060.1	3051.4	3051.4	3051.4	3055.8	3060.1	3047.1	3042.8	3038.5	3051.4	3047.1
20°	3029.8	3021.1	3012.5	3012.5	3016.8	3016.8	3008.1	2995.1	2995.1	2999.5	2990.9
22.5°	2973.5	2969.2	2960.5	2956.2	2964.9	2960.5	2943.2	2930.2	2925.9	2930.2	2921.6
25°	2895.6	2887.0	2882.6	2878.2	2882.6	2878.2	2861.0	2843.6	2843.6	2843.6	2830.6
27.5°	2787.4	2778.8	2774.4	2774.4	2778.8	2770.1	2752.8	2735.5	2726.8	2726.8	2713.9
30°	2648.9	2648.9	2644.6	2640.2	2635.9	2635.9	2610.0	2592.6	2584.0	2588.2	2579.6
32.5°	2480.1	2475.8	2471.5	2458.5	2462.8	2458.5	2436.9	2423.9	2410.9	2402.2	2397.9
35°	2263.6	2263.6	2259.4	2259.4	2259.4	2255.0	2233.4	2220.4	2211.8	2207.4	2194.4
37.5°	2025.6	2021.2	2017.0	2017.0	2017.0	2017.0	2004.0	1991.0	1991.0	1986.6	1978.0
40°	1757.2	1761.6	1765.9	1761.6	1774.6	1787.6	1770.2	1761.6	1757.2	1770.2	1753.0
42.5°	1497.6	1493.2	1514.9	1519.2	1519.2	1540.9	1545.2	1549.5	1545.2	1553.9	1553.9
45°	1246.5	1242.2	1263.9	1272.5	1294.1	1320.1	1333.1	1354.8	1363.4	1372.0	1363.4
47.5°	1008.5	1025.8	1043.1	1064.8	1082.1	1125.4	1151.4	1173.0	1181.6	1194.6	1194.6
50°	809.4	826.8	857.0	874.2	896.0	947.9	991.1	1021.5	1038.8	1051.8	1047.5
52.5°	623.2	653.6	692.5	709.9	740.1	800.8	848.4	883.0	904.6	917.6	921.9
55°	480.5	506.4	545.4	571.4	601.6	666.5	727.1	766.1	787.8	805.0	813.8
57.5°	354.9	385.2	428.5	450.1	484.8	558.4	610.2	657.9	683.9	705.5	709.9
60°	259.8	290.0	329.0	354.9	389.5	463.1	523.8	567.0	597.2	614.6	623.2
62.5°	186.1	216.4	255.4	281.4	311.6	376.5	437.1	480.5	510.8	532.4	545.4
65°	134.1	164.5	203.4	225.1	251.0	311.6	367.9	411.1	441.5	467.5	476.1
67.5°	99.5	121.2	155.9	177.5	203.4	251.0	298.6	337.6	367.9	389.5	398.2
70°	73.6	90.9	121.2	134.1	151.5	194.8	233.8	268.4	294.4	311.6	320.2
72.5°	52.0	64.9	86.6	99.5	112.5	147.1	177.5	203.4	220.8	238.0	246.8
75°	34.6	43.2	60.6	69.2	77.9	103.9	125.5	147.1	160.1	173.1	177.5
77.5°	21.6	30.2	43.2	47.6	56.2	69.2	86.6	99.5	108.2	116.9	125.5
80°	13.0	17.4	26.0	30.2	34.6	47.6	56.2	64.9	73.6	82.2	86.6
82.5°	8.6	13.0	17.4	17.4	21.6	26.0	34.6	43.2	47.6	52.0	56.2
85°	4.4	4.4	8.6	8.6	13.0	13.0	17.4	21.6	26.0	30.2	34.6
87.5°	4.4	4.4	4.4	4.4	8.6	8.6	13.0	13.0	13.0	17.4	17.4
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: P252736

CATALOG NUMBER: LE\_6B60D010R EC6B60709050 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1	3060.1
2.5°	3047.1	3060.1	3047.1	3055.8	3051.4	3051.4	3047.1	3051.4
5°	3060.1	3077.4	3060.1	3073.1	3064.4	3064.4	3064.4	3068.8
7.5°	3073.1	3090.4	3077.4	3090.4	3086.0	3081.8	3081.8	3090.4
10°	3086.0	3099.0	3090.4	3103.4	3099.0	3094.8	3094.8	3103.4
12.5°	3086.0	3103.4	3094.8	3107.8	3103.4	3099.0	3099.0	3103.4
15°	3073.1	3094.8	3081.8	3094.8	3090.4	3086.0	3086.0	3094.8
17.5°	3034.1	3051.4	3042.8	3051.4	3051.4	3047.1	3051.4	3055.8
20°	2982.1	2995.1	2986.5	2995.1	2995.1	2986.5	2990.9	2995.1
22.5°	2908.6	2921.6	2912.9	2921.6	2917.2	2912.9	2912.9	2908.6
25°	2817.8	2835.0	2822.0	2830.6	2822.0	2813.4	2813.4	2817.8
27.5°	2705.1	2718.1	2700.9	2709.5	2700.9	2692.1	2692.1	2687.9
30°	2558.0	2562.4	2549.4	2558.0	2549.4	2545.0	2536.4	2536.4
32.5°	2380.5	2384.9	2371.9	2371.9	2363.2	2363.2	2345.9	2358.9
35°	2172.8	2177.1	2172.8	2168.5	2155.5	2151.1	2146.9	2146.9
37.5°	1956.4	1956.4	1943.4	1939.1	1930.4	1921.8	1926.1	1913.1
40°	1735.6	1731.2	1718.4	1722.6	1718.4	1705.4	1701.0	1696.6
42.5°	1527.9	1527.9	1514.9	1519.2	1510.6	1506.2	1493.2	1497.6
45°	1346.1	1346.1	1333.1	1333.1	1328.8	1315.8	1320.1	1311.5
47.5°	1181.6	1181.6	1177.2	1177.2	1164.2	1160.0	1160.0	1160.0
50°	1038.8	1038.8	1038.8	1038.8	1034.5	1030.1	1025.8	1030.1
52.5°	917.6	926.2	921.9	921.9	917.6	913.2	908.9	908.9
55°	809.4	813.8	813.8	818.0	813.8	809.4	813.8	809.4
57.5°	714.1	722.9	722.9	722.9	722.9	722.9	718.5	714.1
60°	631.9	636.2	636.2	640.6	640.6	640.6	636.2	636.2
62.5°	549.8	558.4	562.6	562.6	567.0	562.6	562.6	562.6
65°	484.8	493.4	497.8	493.4	497.8	497.8	493.4	493.4
67.5°	406.9	415.5	415.5	415.5	415.5	419.9	415.5	415.5
70°	329.0	337.6	333.2	337.6	337.6	337.6	337.6	337.6
72.5°	251.0	255.4	259.8	259.8	264.0	259.8	259.8	259.8
75°	181.8	190.5	190.5	190.5	190.5	194.8	194.8	194.8
77.5°	129.9	134.1	134.1	138.5	138.5	138.5	138.5	142.9
80°	90.9	90.9	95.2	95.2	99.5	99.5	99.5	99.5
82.5°	60.6	64.9	64.9	64.9	64.9	64.9	64.9	64.9
85°	34.6	39.0	39.0	39.0	39.0	43.2	43.2	43.2
87.5°	21.6	21.6	21.6	21.6	21.6	21.6	17.4	17.4
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)