

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: P252171

Luminaire Tested: **LE_6B30D010 EC6B30508050 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252171
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_6B30D010 EC6B30508050 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4867.5 lumens
Efficiency: N/A
Efficacy: 173.8 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

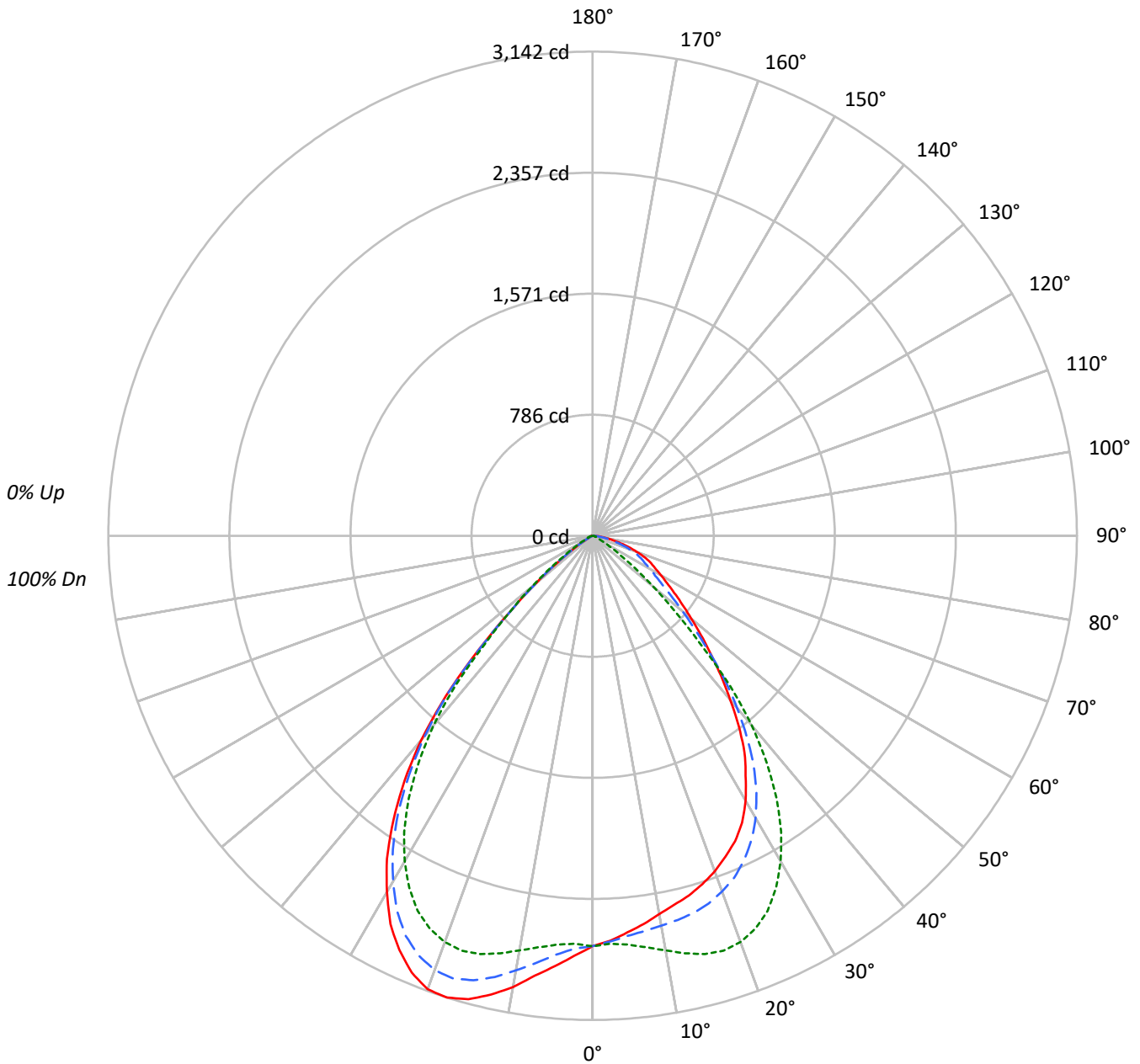
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252171

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBSW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252171

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBSW1LI

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°	173729	173729	173729
5°	169226	174393	183561
10°	165114	180960	196986
15°	163182	189834	210292
20°	160836	194779	217406
25°	157424	193345	213501
30°	149597	183731	200989
35°	136860	165652	179438
40°	118380	136810	147217
45°	99830	89727	96305
50°	84749	51946	48830
55°	73547	24910	18825
60°	66428	11626	4645
65°	64451	6669	1559
70°	57798	5341	1450
75°	47490	3831	630
80°	35391	1916	0
85°	30541	0	0



TEST NUMBER: P252171

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBSW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	5.3
10°-20°	783.9	16.1
20°-30°	1197.7	24.6
30°-40°	1252.7	25.7
40°-50°	812.6	16.7
50°-60°	322.7	6.6
60°-70°	153.0	3.1
70°-80°	72.8	1.5
80°-90°	14.8	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°	2238.8	46.0
0°-40°	3491.5	71.7
0°-60°	4626.8	95.1
0°-90°	4867.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4867.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2663	2663	2663	2663	2663	
5°	2584	2607	2663	2729	2803	244
15°	2416	2533	2811	2986	3114	681
25°	2187	2324	2686	2867	2966	1001
35°	1718	1823	2080	2202	2253	1063
45°	1082	1072	972	1031	1044	842
55°	647	550	219	171	166	586
65°	418	346	43	10	10	408
75°	188	153	15	5	2	203
85°	41	26	0	0	0	47
90°	0	0	0	0	0	



TEST NUMBER: P252171

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBSW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9
2.5°	2629.8	2634.9	2606.9	2599.2	2619.6	2627.2	2629.8	2622.1	2624.8	2634.9	2634.9
5°	2584.0	2589.1	2563.6	2556.0	2576.4	2581.5	2589.1	2586.5	2594.1	2609.5	2606.9
7.5°	2540.8	2548.4	2520.4	2510.1	2535.6	2548.4	2553.4	2553.4	2563.6	2584.0	2586.5
10°	2492.4	2502.5	2477.1	2472.0	2500.0	2512.8	2515.2	2520.4	2535.6	2563.6	2568.8
12.5°	2451.6	2461.8	2444.0	2436.4	2466.9	2479.6	2484.8	2494.9	2512.8	2548.4	2553.4
15°	2416.0	2423.6	2403.2	2398.1	2428.8	2444.0	2446.5	2461.8	2484.8	2525.4	2533.1
17.5°	2370.1	2375.2	2360.0	2354.9	2385.4	2400.8	2403.2	2421.0	2449.0	2489.8	2502.5
20°	2316.6	2321.8	2306.5	2301.4	2332.0	2349.8	2352.4	2367.6	2400.8	2444.0	2456.8
22.5°	2253.0	2263.2	2245.4	2240.2	2270.9	2286.1	2293.8	2306.5	2339.6	2382.9	2400.8
25°	2186.9	2186.9	2174.1	2171.6	2199.6	2217.4	2214.9	2232.6	2265.8	2309.0	2324.4
27.5°	2100.2	2097.8	2085.0	2082.5	2113.0	2128.2	2123.2	2141.0	2171.6	2214.9	2230.1
30°	1985.8	1990.9	1973.0	1967.9	1993.4	2018.9	2016.2	2034.1	2064.6	2105.4	2115.5
32.5°	1848.2	1853.4	1850.8	1843.1	1866.1	1878.8	1886.5	1899.1	1924.6	1967.9	1978.1
35°	1718.4	1710.8	1700.6	1700.6	1723.5	1743.9	1736.2	1751.5	1777.0	1820.2	1822.8
37.5°	1558.0	1555.5	1550.4	1545.2	1570.8	1575.9	1578.4	1588.6	1611.5	1647.1	1642.0
40°	1390.0	1392.5	1390.0	1379.9	1395.1	1415.5	1412.9	1418.0	1438.4	1463.9	1456.2
42.5°	1232.1	1232.1	1232.1	1222.0	1239.8	1250.0	1255.1	1252.5	1257.6	1280.5	1270.4
45°	1082.0	1084.5	1082.0	1079.4	1082.0	1087.0	1082.0	1079.4	1079.4	1087.0	1071.8
47.5°	952.1	952.1	944.5	936.9	944.5	947.0	939.4	931.8	929.2	926.6	901.2
50°	835.0	832.5	829.9	817.2	824.9	827.4	817.2	812.1	801.9	789.2	758.6
52.5°	733.2	730.6	728.1	715.4	720.5	723.0	712.9	702.6	689.9	679.8	641.5
55°	646.6	644.1	644.1	636.5	631.4	636.5	626.2	618.6	600.8	588.1	549.9
57.5°	572.8	572.8	567.8	560.1	562.6	562.6	552.5	542.2	527.0	511.8	481.1
60°	509.1	509.1	509.1	501.5	501.5	501.5	496.4	486.2	473.5	458.2	427.8
62.5°	458.2	458.2	455.8	448.0	450.6	450.6	445.5	435.4	422.6	412.4	381.9
65°	417.5	417.5	417.5	409.9	409.9	412.4	407.4	397.1	387.0	374.2	346.2
67.5°	366.6	364.0	364.0	359.0	361.5	364.0	359.0	351.4	338.6	331.0	305.5
70°	303.0	305.5	308.0	300.4	303.0	303.0	300.4	292.8	285.1	277.5	254.6
72.5°	247.0	247.0	244.4	241.9	241.9	244.4	239.2	231.6	226.6	221.5	203.6
75°	188.4	185.9	188.4	183.2	183.2	183.2	178.2	175.6	173.1	165.5	152.8
77.5°	137.5	134.9	134.9	129.9	132.4	132.4	129.9	124.8	119.6	117.1	106.9
80°	94.2	94.2	94.2	91.6	91.6	89.1	89.1	86.5	81.5	78.9	73.9
82.5°	63.6	63.6	63.6	61.1	61.1	61.1	58.5	56.0	53.5	50.9	45.9
85°	40.8	40.8	40.8	38.1	38.1	38.1	35.6	35.6	33.1	30.5	25.5
87.5°	22.9	22.9	22.9	20.4	20.4	20.4	20.4	20.4	17.9	15.2	12.8
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: P252171

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9
2.5°	2652.8	2617.1	2640.0	2640.0	2632.4	2652.8	2665.5	2675.6	2673.1	2650.1	2647.6
5°	2632.4	2601.8	2627.2	2629.8	2622.1	2650.1	2668.0	2680.8	2683.2	2662.9	2665.5
7.5°	2617.1	2591.6	2624.8	2634.9	2632.4	2657.9	2678.1	2698.5	2708.8	2693.5	2696.0
10°	2609.5	2589.1	2624.8	2640.0	2642.5	2670.5	2701.1	2729.1	2741.9	2731.6	2739.2
12.5°	2599.2	2586.5	2627.2	2650.1	2660.4	2688.4	2726.5	2759.6	2780.0	2774.9	2790.2
15°	2589.1	2578.9	2627.2	2660.4	2673.1	2698.5	2741.9	2790.2	2813.1	2810.6	2830.9
17.5°	2563.6	2561.1	2612.0	2647.6	2665.5	2696.0	2736.8	2795.2	2818.2	2823.2	2848.8
20°	2522.9	2522.9	2578.9	2617.1	2637.5	2665.5	2716.4	2772.4	2800.4	2805.5	2833.5
22.5°	2466.9	2472.0	2525.4	2563.6	2594.1	2614.5	2668.0	2726.5	2752.0	2759.6	2790.2
25°	2393.0	2398.1	2449.0	2487.2	2520.4	2543.2	2594.1	2647.6	2678.1	2685.9	2708.8
27.5°	2296.2	2306.5	2354.9	2393.0	2421.0	2436.4	2489.8	2545.8	2568.8	2576.4	2599.2
30°	2184.2	2186.9	2235.2	2268.2	2296.2	2309.0	2354.9	2413.4	2431.2	2438.9	2472.0
32.5°	2046.9	2044.2	2090.1	2120.6	2143.6	2158.9	2207.2	2245.4	2263.2	2276.0	2293.8
35°	1881.4	1878.8	1911.9	1947.5	1965.4	1970.5	2018.9	2059.5	2069.8	2079.9	2102.9
37.5°	1695.5	1695.5	1723.5	1741.4	1761.8	1769.4	1792.2	1838.1	1855.9	1853.4	1871.1
40°	1499.5	1489.2	1509.6	1527.5	1532.6	1535.1	1558.0	1593.6	1606.4	1606.4	1619.1
42.5°	1293.2	1278.0	1280.5	1290.8	1295.8	1278.0	1293.2	1316.1	1308.5	1318.8	1321.2
45°	1074.4	1051.4	1041.2	1018.4	1023.4	1005.6	995.4	1000.5	998.0	972.5	977.6
47.5°	896.1	855.4	837.6	804.5	796.9	776.5	763.8	740.9	720.5	720.5	707.8
50°	745.9	705.1	669.5	631.4	618.6	600.8	572.8	542.2	527.0	511.8	499.0
52.5°	626.2	583.0	539.8	499.0	481.1	458.2	420.0	389.5	361.5	346.2	331.0
55°	529.5	481.1	435.4	392.0	369.1	346.2	308.0	272.4	239.2	219.0	206.2
57.5°	455.8	409.9	361.5	315.6	295.4	269.9	229.1	190.9	160.4	137.5	124.8
60°	402.2	356.4	313.1	264.8	244.4	219.0	175.6	140.0	109.5	89.1	73.9
62.5°	356.4	315.6	269.9	226.6	206.2	180.8	140.0	104.4	76.4	56.0	43.2
65°	323.4	282.6	244.4	201.1	183.2	157.9	119.6	86.5	61.1	43.2	30.5
67.5°	285.1	249.5	211.2	175.6	157.9	137.5	101.9	73.9	50.9	35.6	25.5
70°	239.2	211.2	178.2	145.1	132.4	114.5	84.0	61.1	40.8	28.0	20.4
72.5°	190.9	168.0	142.6	117.1	106.9	89.1	68.8	48.4	30.5	20.4	15.2
75°	145.1	127.2	106.9	89.1	78.9	68.8	50.9	35.6	22.9	15.2	10.1
77.5°	99.2	91.6	76.4	61.1	56.0	48.4	33.1	22.9	15.2	10.1	5.1
80°	68.8	61.1	50.9	40.8	35.6	30.5	20.4	15.2	7.6	5.1	2.5
82.5°	43.2	35.6	30.5	25.5	22.9	17.9	12.8	7.6	5.1	2.5	2.5
85°	22.9	20.4	17.9	12.8	12.8	10.1	7.6	5.1	2.5	0.0	0.0
87.5°	12.8	10.1	7.6	5.1	5.1	2.5	2.5	2.5	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: P252171

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9
2.5°	2678.1	2678.1	2675.6	2706.1	2670.5	2706.1	2688.4	2706.1	2680.8	2678.1	2680.8
5°	2698.5	2706.1	2708.8	2736.8	2703.6	2746.9	2731.6	2746.9	2729.1	2734.2	2741.9
7.5°	2739.2	2752.0	2749.5	2785.1	2752.0	2800.4	2790.2	2813.1	2795.2	2800.4	2810.6
10°	2785.1	2800.4	2802.9	2838.6	2808.0	2866.6	2853.9	2879.2	2864.0	2871.6	2884.4
12.5°	2838.6	2856.4	2858.9	2899.6	2866.6	2927.6	2920.0	2945.5	2932.8	2940.4	2955.6
15°	2879.2	2904.8	2909.9	2950.6	2915.0	2978.6	2973.5	3006.6	2986.2	2999.0	3011.6
17.5°	2899.6	2922.6	2932.8	2971.0	2940.4	3004.0	2999.0	3027.0	3011.6	3024.4	3039.6
20°	2886.9	2915.0	2922.6	2960.8	2930.2	2993.9	2986.2	3014.2	2999.0	3009.1	3024.4
22.5°	2841.1	2869.1	2879.2	2915.0	2886.9	2945.5	2943.0	2968.4	2948.0	2960.8	2973.5
25°	2759.6	2790.2	2795.2	2828.4	2797.9	2858.9	2853.9	2881.9	2866.6	2874.2	2892.0
27.5°	2642.5	2678.1	2685.9	2713.9	2690.9	2741.9	2741.9	2764.8	2746.9	2746.9	2764.8
30°	2502.5	2538.1	2543.2	2566.1	2545.8	2591.6	2594.1	2617.1	2589.1	2604.4	2606.9
32.5°	2332.0	2354.9	2370.1	2390.5	2360.0	2418.5	2410.9	2428.8	2413.4	2413.4	2426.1
35°	2125.8	2153.8	2161.4	2186.9	2161.4	2207.2	2207.2	2217.4	2202.1	2202.1	2222.5
37.5°	1901.8	1922.1	1924.6	1950.1	1929.8	1967.9	1965.4	1973.0	1957.8	1967.9	1967.9
40°	1639.5	1654.8	1659.9	1672.6	1670.0	1698.0	1695.5	1700.6	1693.0	1695.5	1700.6
42.5°	1334.0	1354.4	1364.5	1374.8	1359.5	1397.6	1390.0	1397.6	1395.1	1397.6	1405.2
45°	982.6	998.0	1005.6	1008.1	1003.0	1026.0	1043.8	1028.5	1031.0	1026.0	1036.1
47.5°	710.2	712.9	707.8	723.0	710.2	720.5	725.5	728.1	712.9	710.2	720.5
50°	486.2	499.0	481.1	488.8	486.2	496.4	491.4	493.9	478.6	486.2	481.1
52.5°	323.4	320.8	315.6	318.2	313.1	313.1	313.1	318.2	308.0	303.0	297.9
55°	196.0	190.9	180.8	178.2	178.2	180.8	175.6	170.6	170.6	168.0	168.0
57.5°	114.5	106.9	101.9	99.2	94.2	91.6	89.1	89.1	84.0	84.0	84.0
60°	63.6	56.0	50.9	45.9	45.9	43.2	40.8	38.1	38.1	38.1	35.6
62.5°	33.1	28.0	22.9	20.4	20.4	17.9	15.2	15.2	15.2	15.2	12.8
65°	22.9	17.9	15.2	12.8	12.8	10.1	10.1	10.1	10.1	10.1	10.1
67.5°	17.9	15.2	12.8	10.1	10.1	10.1	7.6	7.6	7.6	7.6	7.6
70°	15.2	10.1	10.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
72.5°	10.1	10.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
75°	7.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	2.5	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: P252171

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9
2.5°	2703.6	2701.1	2703.6	2708.8	2698.5	2729.1	2713.9	2729.1
5°	2762.2	2764.8	2767.2	2774.9	2762.2	2800.4	2780.0	2802.9
7.5°	2838.6	2841.1	2843.6	2851.2	2843.6	2881.9	2858.9	2879.2
10°	2917.5	2922.6	2922.6	2935.2	2927.6	2963.2	2948.0	2973.5
12.5°	2991.4	2996.4	3001.5	3009.1	3004.0	3042.2	3029.5	3049.9
15°	3049.9	3060.0	3062.6	3072.8	3067.8	3108.4	3093.1	3113.5
17.5°	3077.9	3088.0	3088.0	3100.8	3095.8	3139.0	3118.6	3141.5
20°	3062.6	3070.2	3072.8	3085.5	3080.4	3123.8	3103.4	3131.4
22.5°	3014.2	3016.8	3019.4	3032.0	3029.5	3067.8	3049.9	3067.8
25°	2925.1	2932.8	2930.2	2940.4	2940.4	2971.0	2950.6	2965.9
27.5°	2797.9	2805.5	2805.5	2818.2	2808.0	2838.6	2818.2	2841.1
30°	2642.5	2650.1	2645.1	2655.2	2645.1	2675.6	2660.4	2668.0
32.5°	2456.8	2456.8	2459.2	2461.8	2456.8	2484.8	2469.4	2484.8
35°	2235.2	2240.2	2242.9	2245.4	2240.2	2260.6	2242.9	2253.0
37.5°	1985.8	1998.5	1995.9	1998.5	1990.9	2016.2	2001.0	2006.1
40°	1718.4	1718.4	1715.9	1721.0	1713.4	1733.8	1723.5	1728.6
42.5°	1407.9	1415.5	1405.2	1418.0	1397.6	1425.6	1415.5	1407.9
45°	1056.5	1046.4	1043.8	1046.4	1038.6	1041.2	1048.9	1043.8
47.5°	720.5	720.5	715.4	707.8	717.9	720.5	710.2	710.2
50°	483.8	483.8	478.6	476.1	481.1	478.6	473.5	481.1
52.5°	308.0	297.9	297.9	303.0	297.9	292.8	300.4	295.4
55°	168.0	162.9	162.9	168.0	162.9	162.9	160.4	165.5
57.5°	81.5	84.0	81.5	81.5	81.5	81.5	78.9	81.5
60°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
62.5°	15.2	15.2	12.8	12.8	12.8	12.8	12.8	12.8
65°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
67.5°	7.6	7.6	7.6	7.6	7.6	10.1	7.6	7.6
70°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
72.5°	7.6	7.6	10.1	10.1	10.1	10.1	10.1	10.1
75°	5.1	5.1	5.1	2.5	2.5	2.5	2.5	2.5
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)