

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: P252167

Luminaire Tested: **LE_6B30D010 EC6B30508027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252167
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 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: 4497.5 lumens
Efficiency: N/A
Efficacy: 160.6 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

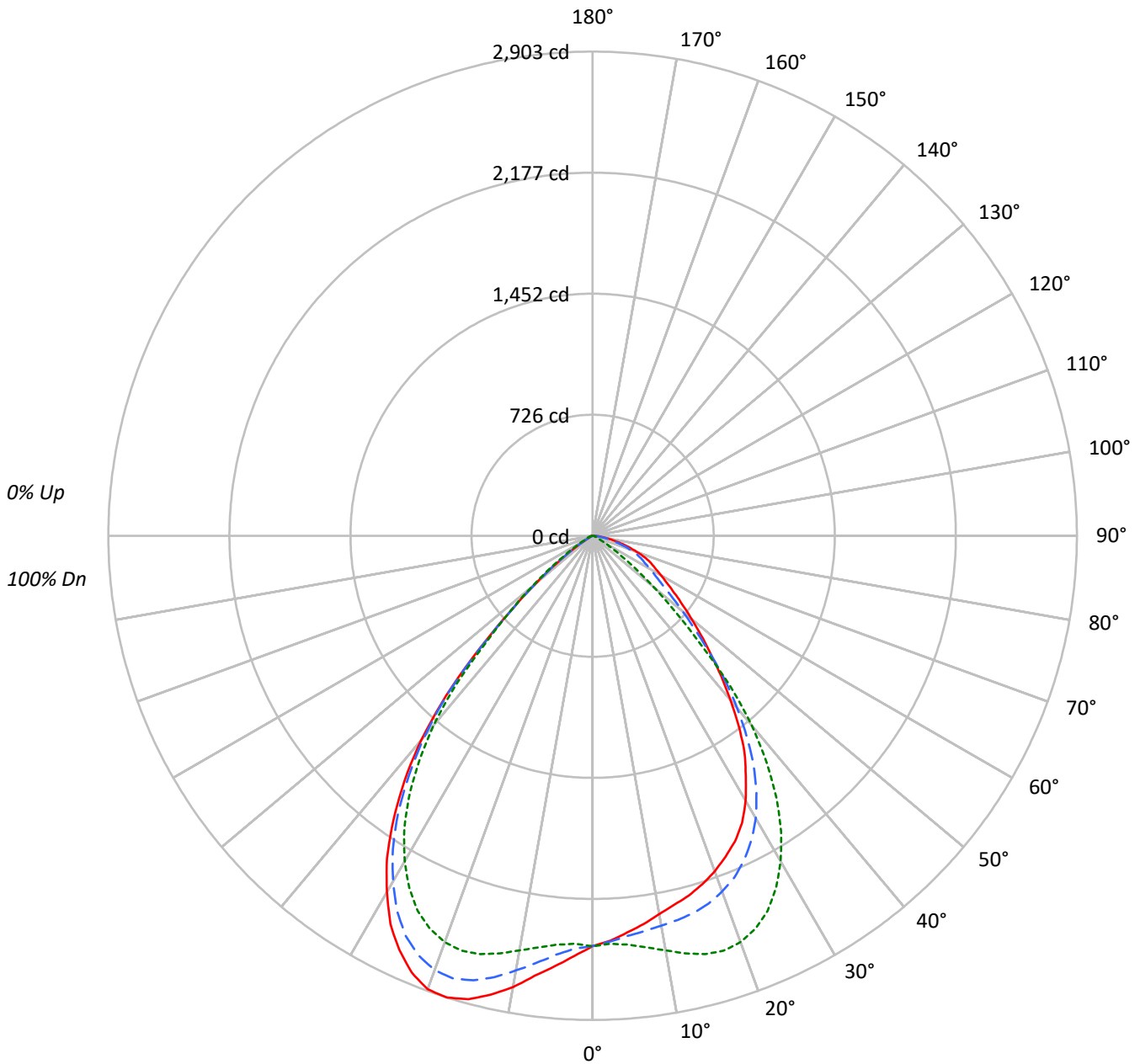
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	160525	160525	160525
5°	156364	161138	169612
10°	152560	167208	182014
15°	150781	175400	194312
20°	148617	179970	200868
25°	145453	178638	197268
30°	138222	169764	185712
35°	126459	153068	165803
40°	109387	126403	136026
45°	92246	82909	88980
50°	78304	47987	45125
55°	67962	22999	17391
60°	61391	10752	4293
65°	59557	6175	1451
70°	53391	4940	1335
75°	43885	3554	605
80°	32686	1803	0
85°	28146	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	5.3
10°-20°	724.3	16.1
20°-30°	1106.7	24.6
30°-40°	1157.5	25.7
40°-50°	750.9	16.7
50°-60°	298.1	6.6
60°-70°	141.4	3.1
70°-80°	67.3	1.5
80°-90°	13.7	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°	2068.6	46.0
0°-40°	3226.1	71.7
0°-60°	4275.1	95.1
0°-90°	4497.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2460	2460	2460	2460	2460	
5°	2388	2409	2460	2522	2590	225
15°	2232	2340	2597	2759	2877	629
25°	2021	2148	2482	2649	2740	925
35°	1588	1684	1922	2035	2082	982
45°	1000	990	899	953	964	778
55°	598	508	202	158	153	541
65°	386	320	40	9	9	377
75°	174	141	14	5	2	188
85°	38	24	0	0	0	44
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°	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5
2.5°	2429.9	2434.6	2408.8	2401.6	2420.5	2427.5	2429.9	2422.9	2425.2	2434.6	2434.6
5°	2387.6	2392.2	2368.8	2361.8	2380.5	2385.2	2392.2	2389.9	2397.0	2411.1	2408.8
7.5°	2347.6	2354.6	2328.8	2319.4	2342.9	2354.6	2359.4	2359.4	2368.8	2387.6	2389.9
10°	2302.9	2312.2	2288.8	2284.1	2310.0	2321.8	2324.0	2328.8	2342.9	2368.8	2373.5
12.5°	2265.2	2274.6	2258.2	2251.1	2279.4	2291.1	2295.9	2305.2	2321.8	2354.6	2359.4
15°	2232.4	2239.4	2220.5	2215.9	2244.1	2258.2	2260.5	2274.6	2295.9	2333.5	2340.5
17.5°	2190.0	2194.6	2180.6	2175.9	2204.1	2218.2	2220.5	2237.0	2262.9	2300.5	2312.2
20°	2140.6	2145.2	2131.1	2126.5	2154.8	2171.1	2173.5	2187.6	2218.2	2258.2	2270.0
22.5°	2081.8	2091.1	2074.8	2070.0	2098.2	2112.4	2119.4	2131.1	2161.8	2201.8	2218.2
25°	2020.6	2020.6	2008.9	2006.5	2032.4	2048.9	2046.5	2063.0	2093.5	2133.5	2147.6
27.5°	1940.6	1938.2	1926.5	1924.1	1952.4	1966.5	1961.8	1978.2	2006.5	2046.5	2060.6
30°	1834.8	1839.5	1823.0	1818.4	1841.9	1865.4	1863.0	1879.5	1907.8	1945.4	1954.8
32.5°	1707.8	1712.5	1710.1	1703.0	1724.2	1736.0	1743.0	1754.8	1778.4	1818.4	1827.8
35°	1587.8	1580.8	1571.4	1571.4	1592.5	1611.4	1604.2	1618.4	1641.9	1681.9	1684.2
37.5°	1439.6	1437.2	1432.5	1427.9	1451.4	1456.1	1458.4	1467.9	1489.0	1521.9	1517.2
40°	1284.4	1286.8	1284.4	1274.9	1289.0	1307.9	1305.5	1310.2	1329.0	1352.5	1345.5
42.5°	1138.5	1138.5	1138.5	1129.1	1145.5	1155.0	1159.6	1157.4	1162.0	1183.2	1173.8
45°	999.8	1002.1	999.8	997.4	999.8	1004.4	999.8	997.4	997.4	1004.4	990.2
47.5°	879.8	879.8	872.8	865.6	872.8	875.0	868.0	860.9	858.6	856.2	832.8
50°	771.5	769.2	766.9	755.1	762.1	764.5	755.1	750.4	741.0	729.2	701.0
52.5°	677.5	675.1	672.8	661.0	665.8	668.0	658.6	649.2	637.5	628.0	592.8
55°	597.5	595.1	595.1	588.1	583.4	588.1	578.6	571.6	555.1	543.4	508.1
57.5°	529.2	529.2	524.5	517.5	519.9	519.9	510.5	501.0	486.9	472.8	444.6
60°	470.5	470.5	470.5	463.4	463.4	463.4	458.8	449.2	437.5	423.4	395.1
62.5°	423.4	423.4	421.0	414.0	416.4	416.4	411.6	402.2	390.5	381.1	352.9
65°	385.8	385.8	385.8	378.8	378.8	381.1	376.4	367.0	357.5	345.8	319.9
67.5°	338.8	336.4	336.4	331.6	334.0	336.4	331.6	324.6	312.9	305.8	282.2
70°	279.9	282.2	284.6	277.6	279.9	279.9	277.6	270.5	263.5	256.4	235.2
72.5°	228.1	228.1	225.9	223.5	223.5	225.9	221.1	214.0	209.4	204.6	188.1
75°	174.1	171.8	174.1	169.4	169.4	169.4	164.6	162.2	160.0	152.9	141.1
77.5°	127.0	124.6	124.6	120.0	122.4	122.4	120.0	115.2	110.5	108.2	98.8
80°	87.0	87.0	87.0	84.6	84.6	82.4	82.4	80.0	75.2	72.9	68.2
82.5°	58.8	58.8	58.8	56.5	56.5	56.5	54.1	51.8	49.4	47.0	42.4
85°	37.6	37.6	37.6	35.2	35.2	35.2	32.9	32.9	30.6	28.2	23.5
87.5°	21.1	21.1	21.1	18.9	18.9	18.9	18.9	18.9	16.5	14.1	11.8
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°	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5
2.5°	2451.1	2418.1	2439.4	2439.4	2432.2	2451.1	2462.9	2472.2	2469.9	2448.8	2446.4
5°	2432.2	2404.0	2427.5	2429.9	2422.9	2448.8	2465.2	2477.0	2479.2	2460.5	2462.9
7.5°	2418.1	2394.6	2425.2	2434.6	2432.2	2455.8	2474.6	2493.4	2502.9	2488.8	2491.1
10°	2411.1	2392.2	2425.2	2439.4	2441.6	2467.5	2495.8	2521.6	2533.4	2524.0	2531.0
12.5°	2401.6	2389.9	2427.5	2448.8	2458.1	2484.0	2519.2	2549.9	2568.8	2564.0	2578.1
15°	2392.2	2382.9	2427.5	2458.1	2469.9	2493.4	2533.4	2578.1	2599.2	2596.9	2615.8
17.5°	2368.8	2366.4	2413.5	2446.4	2462.9	2491.1	2528.8	2582.8	2604.0	2608.6	2632.2
20°	2331.1	2331.1	2382.9	2418.1	2437.0	2462.9	2509.9	2561.6	2587.5	2592.2	2618.1
22.5°	2279.4	2284.1	2333.5	2368.8	2397.0	2415.8	2465.2	2519.2	2542.9	2549.9	2578.1
25°	2211.1	2215.9	2262.9	2298.1	2328.8	2349.9	2397.0	2446.4	2474.6	2481.6	2502.9
27.5°	2121.8	2131.1	2175.9	2211.1	2237.0	2251.1	2300.5	2352.2	2373.5	2380.5	2401.6
30°	2018.2	2020.6	2065.2	2095.9	2121.8	2133.5	2175.9	2230.0	2246.4	2253.5	2284.1
32.5°	1891.2	1888.9	1931.2	1959.5	1980.6	1994.8	2039.4	2074.8	2091.1	2103.0	2119.4
35°	1738.4	1736.0	1766.6	1799.5	1816.0	1820.6	1865.4	1903.0	1912.4	1921.9	1943.0
37.5°	1566.6	1566.6	1592.5	1609.0	1627.8	1634.9	1656.0	1698.4	1714.9	1712.5	1728.9
40°	1385.5	1376.1	1394.9	1411.4	1416.1	1418.4	1439.6	1472.5	1484.2	1484.2	1496.0
42.5°	1195.0	1180.9	1183.2	1192.6	1197.2	1180.9	1195.0	1216.1	1209.1	1218.5	1220.9
45°	992.6	971.5	962.1	940.9	945.6	929.1	919.8	924.5	922.1	898.6	903.2
47.5°	828.0	790.4	773.9	743.4	736.2	717.5	705.6	684.5	665.8	665.8	653.9
50°	689.2	651.6	618.6	583.4	571.6	555.1	529.2	501.0	486.9	472.8	461.0
52.5°	578.6	538.6	498.6	461.0	444.6	423.4	388.1	359.9	334.0	319.9	305.8
55°	489.2	444.6	402.2	362.2	341.1	319.9	284.6	251.8	221.1	202.2	190.5
57.5°	421.0	378.8	334.0	291.6	272.9	249.4	211.8	176.4	148.2	127.0	115.2
60°	371.6	329.4	289.4	244.6	225.9	202.2	162.2	129.4	101.1	82.4	68.2
62.5°	329.4	291.6	249.4	209.4	190.5	167.0	129.4	96.5	70.6	51.8	40.0
65°	298.8	261.1	225.9	185.9	169.4	145.9	110.5	80.0	56.5	40.0	28.2
67.5°	263.5	230.5	195.2	162.2	145.9	127.0	94.1	68.2	47.0	32.9	23.5
70°	221.1	195.2	164.6	134.1	122.4	105.9	77.6	56.5	37.6	25.9	18.9
72.5°	176.4	155.2	131.8	108.2	98.8	82.4	63.5	44.8	28.2	18.9	14.1
75°	134.1	117.6	98.8	82.4	72.9	63.5	47.0	32.9	21.1	14.1	9.4
77.5°	91.8	84.6	70.6	56.5	51.8	44.8	30.6	21.1	14.1	9.4	4.8
80°	63.5	56.5	47.0	37.6	32.9	28.2	18.9	14.1	7.0	4.8	2.4
82.5°	40.0	32.9	28.2	23.5	21.1	16.5	11.8	7.0	4.8	2.4	2.4
85°	21.1	18.9	16.5	11.8	11.8	9.4	7.0	4.8	2.4	0.0	0.0
87.5°	11.8	9.4	7.0	4.8	4.8	2.4	2.4	2.4	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°	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5
2.5°	2474.6	2474.6	2472.2	2500.5	2467.5	2500.5	2484.0	2500.5	2477.0	2474.6	2477.0
5°	2493.4	2500.5	2502.9	2528.8	2498.1	2538.1	2524.0	2538.1	2521.6	2526.4	2533.4
7.5°	2531.0	2542.9	2540.5	2573.4	2542.9	2587.5	2578.1	2599.2	2582.8	2587.5	2596.9
10°	2573.4	2587.5	2589.9	2622.8	2594.6	2648.6	2636.9	2660.4	2646.4	2653.4	2665.1
12.5°	2622.8	2639.2	2641.6	2679.2	2648.6	2705.1	2698.1	2721.6	2709.9	2716.9	2731.0
15°	2660.4	2684.0	2688.6	2726.2	2693.4	2752.1	2747.5	2778.0	2759.2	2771.0	2782.8
17.5°	2679.2	2700.4	2709.9	2745.1	2716.9	2775.8	2771.0	2796.9	2782.8	2794.5	2808.6
20°	2667.5	2693.4	2700.4	2735.8	2707.5	2766.2	2759.2	2785.1	2771.0	2780.4	2794.5
22.5°	2625.1	2651.0	2660.4	2693.4	2667.5	2721.6	2719.2	2742.8	2724.0	2735.8	2747.5
25°	2549.9	2578.1	2582.8	2613.4	2585.1	2641.6	2636.9	2662.8	2648.6	2655.8	2672.2
27.5°	2441.6	2474.6	2481.6	2507.5	2486.4	2533.4	2533.4	2554.6	2538.1	2538.1	2554.6
30°	2312.2	2345.2	2349.9	2371.1	2352.2	2394.6	2397.0	2418.1	2392.2	2406.4	2408.8
32.5°	2154.8	2175.9	2190.0	2208.8	2180.6	2234.6	2227.6	2244.1	2230.0	2230.0	2241.8
35°	1964.1	1990.0	1997.1	2020.6	1997.1	2039.4	2039.4	2048.9	2034.8	2034.8	2053.5
37.5°	1757.1	1776.0	1778.4	1801.9	1783.0	1818.4	1816.0	1823.0	1808.9	1818.4	1818.4
40°	1514.9	1529.0	1533.8	1545.5	1543.1	1569.0	1566.6	1571.4	1564.2	1566.6	1571.4
42.5°	1232.6	1251.4	1260.9	1270.2	1256.1	1291.4	1284.4	1291.4	1289.0	1291.4	1298.5
45°	908.0	922.1	929.1	931.5	926.8	948.0	964.4	950.4	952.6	948.0	957.4
47.5°	656.2	658.6	653.9	668.0	656.2	665.8	670.4	672.8	658.6	656.2	665.8
50°	449.2	461.0	444.6	451.6	449.2	458.8	454.0	456.4	442.2	449.2	444.6
52.5°	298.8	296.4	291.6	294.0	289.4	289.4	289.4	294.0	284.6	279.9	275.2
55°	181.1	176.4	167.0	164.6	164.6	167.0	162.2	157.6	157.6	155.2	155.2
57.5°	105.9	98.8	94.1	91.8	87.0	84.6	82.4	82.4	77.6	77.6	77.6
60°	58.8	51.8	47.0	42.4	42.4	40.0	37.6	35.2	35.2	35.2	32.9
62.5°	30.6	25.9	21.1	18.9	18.9	16.5	14.1	14.1	14.1	14.1	11.8
65°	21.1	16.5	14.1	11.8	11.8	9.4	9.4	9.4	9.4	9.4	9.4
67.5°	16.5	14.1	11.8	9.4	9.4	9.4	7.0	7.0	7.0	7.0	7.0
70°	14.1	9.4	9.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
72.5°	9.4	9.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
75°	7.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
80°	2.4	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: P252167

CATALOG NUMBER: LE_6B30D010 EC6B30508027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5
2.5°	2498.1	2495.8	2498.1	2502.9	2493.4	2521.6	2507.5	2521.6
5°	2552.2	2554.6	2556.9	2564.0	2552.2	2587.5	2568.8	2589.9
7.5°	2622.8	2625.1	2627.5	2634.5	2627.5	2662.8	2641.6	2660.4
10°	2695.8	2700.4	2700.4	2712.1	2705.1	2738.0	2724.0	2747.5
12.5°	2763.9	2768.6	2773.4	2780.4	2775.8	2811.0	2799.2	2818.0
15°	2818.0	2827.5	2829.8	2839.2	2834.5	2872.1	2858.0	2876.9
17.5°	2843.9	2853.4	2853.4	2865.1	2860.4	2900.4	2881.5	2902.8
20°	2829.8	2836.9	2839.2	2851.0	2846.2	2886.2	2867.4	2893.2
22.5°	2785.1	2787.5	2789.8	2801.6	2799.2	2834.5	2818.0	2834.5
25°	2702.8	2709.9	2707.5	2716.9	2716.9	2745.1	2726.2	2740.4
27.5°	2585.1	2592.2	2592.2	2604.0	2594.6	2622.8	2604.0	2625.1
30°	2441.6	2448.8	2444.0	2453.4	2444.0	2472.2	2458.1	2465.2
32.5°	2270.0	2270.0	2272.2	2274.6	2270.0	2295.9	2281.8	2295.9
35°	2065.2	2070.0	2072.4	2074.8	2070.0	2088.9	2072.4	2081.8
37.5°	1834.8	1846.5	1844.2	1846.5	1839.5	1863.0	1848.9	1853.6
40°	1587.8	1587.8	1585.5	1590.1	1583.1	1601.9	1592.5	1597.2
42.5°	1300.8	1307.9	1298.5	1310.2	1291.4	1317.2	1307.9	1300.8
45°	976.2	966.8	964.4	966.8	959.8	962.1	969.1	964.4
47.5°	665.8	665.8	661.0	653.9	663.4	665.8	656.2	656.2
50°	446.9	446.9	442.2	439.9	444.6	442.2	437.5	444.6
52.5°	284.6	275.2	275.2	279.9	275.2	270.5	277.6	272.9
55°	155.2	150.5	150.5	155.2	150.5	150.5	148.2	152.9
57.5°	75.2	77.6	75.2	75.2	75.2	75.2	72.9	75.2
60°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
62.5°	14.1	14.1	11.8	11.8	11.8	11.8	11.8	11.8
65°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
67.5°	7.0	7.0	7.0	7.0	7.0	9.4	7.0	7.0
70°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
72.5°	7.0	7.0	9.4	9.4	9.4	9.4	9.4	9.4
75°	4.8	4.8	4.8	2.4	2.4	2.4	2.4	2.4
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)