

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: io LED

Report Number: P252188

Luminaire Tested: **LD6B40D010 EU6B30509035 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252188  
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: io LED  
Catalog Number: LD6B40D010 EU6B30509035 6LBSW1LI  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

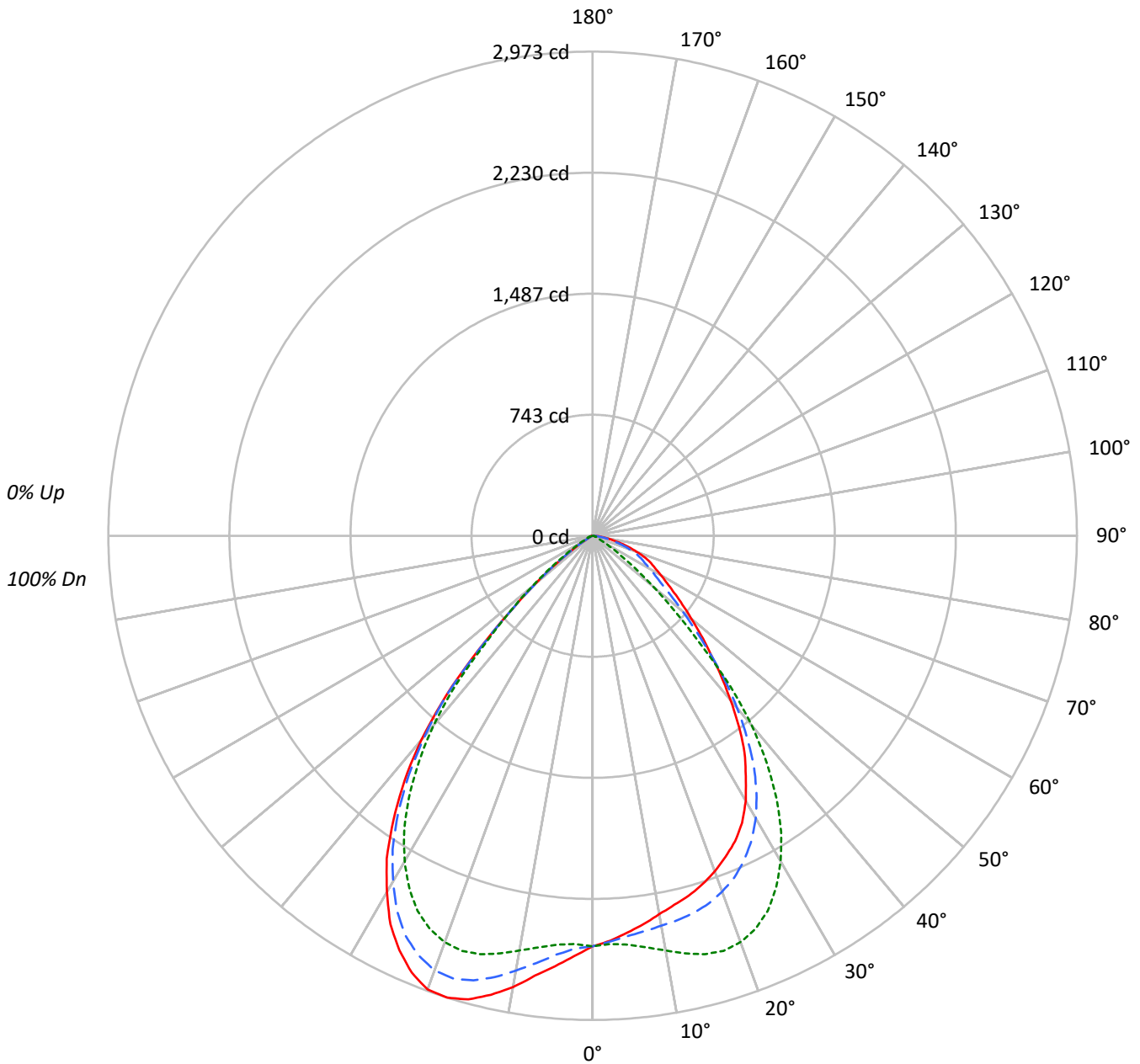
Lumens per Lamp: N/A  
Luminaire Lumens: 4607.0 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 43.02  
Input Voltage (V): NR  
Input Current (Ain): NR  
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			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°	164432	164432	164432
5°	160168	165061	173738
10°	156277	171282	186446
15°	154448	179669	199040
20°	152234	184351	205770
25°	148995	182993	202069
30°	141589	173900	190232
35°	129533	156787	169841
40°	112044	129486	139339
45°	94488	84920	91148
50°	80213	49155	46221
55°	69611	23568	17812
60°	62879	11000	4397
65°	61008	6329	1482
70°	54688	5055	1373
75°	44944	3655	605
80°	33513	1803	0
85°	28894	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.4	5.3
10°-20°	741.9	16.1
20°-30°	1133.6	24.6
30°-40°	1185.7	25.7
40°-50°	769.1	16.7
50°-60°	305.4	6.6
60°-70°	144.9	3.1
70°-80°	68.9	1.5
80°-90°	14.1	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°	2119.0	46.0
0°-40°	3304.7	71.7
0°-60°	4379.2	95.1
0°-90°	4607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4607.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2520	2520	2520	2520	2520	
5°	2446	2467	2520	2583	2653	231
15°	2287	2398	2660	2826	2947	644
25°	2070	2200	2542	2713	2807	948
35°	1626	1725	1969	2084	2132	1006
45°	1024	1014	920	976	988	797
55°	612	520	207	161	157	555
65°	395	328	41	10	10	386
75°	178	145	14	5	2	192
85°	39	24	0	0	0	45
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°	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4
2.5°	2489.1	2493.9	2467.4	2460.2	2479.4	2486.7	2489.1	2481.8	2484.2	2493.9	2493.9
5°	2445.7	2450.5	2426.4	2419.2	2438.5	2443.3	2450.5	2448.1	2455.3	2469.8	2467.4
7.5°	2404.7	2412.0	2385.5	2375.8	2399.9	2412.0	2416.8	2416.8	2426.4	2445.7	2448.1
10°	2359.0	2368.6	2344.5	2339.7	2366.2	2378.2	2380.6	2385.5	2399.9	2426.4	2431.2
12.5°	2320.4	2330.0	2313.2	2305.9	2334.9	2346.9	2351.7	2361.4	2378.2	2412.0	2416.8
15°	2286.7	2293.9	2274.6	2269.8	2298.7	2313.2	2315.6	2330.0	2351.7	2390.3	2397.5
17.5°	2243.3	2248.1	2233.7	2228.8	2257.8	2272.2	2274.6	2291.5	2318.0	2356.5	2368.6
20°	2192.7	2197.5	2183.1	2178.2	2207.2	2224.0	2226.4	2240.9	2272.2	2313.2	2325.2
22.5°	2132.5	2142.1	2125.2	2120.4	2149.3	2163.8	2171.0	2183.1	2214.4	2255.3	2272.2
25°	2069.8	2069.8	2057.8	2055.3	2081.9	2098.7	2096.3	2113.2	2144.5	2185.5	2199.9
27.5°	1987.9	1985.5	1973.4	1971.0	1999.9	2014.4	2009.6	2026.4	2055.3	2096.3	2110.8
30°	1879.5	1884.3	1867.4	1862.6	1886.7	1910.8	1908.4	1925.2	1954.1	1992.7	2002.3
32.5°	1749.3	1754.2	1751.7	1744.5	1766.2	1778.3	1785.5	1797.5	1821.6	1862.6	1872.2
35°	1626.4	1619.2	1609.6	1609.6	1631.3	1650.5	1643.3	1657.8	1681.9	1722.8	1725.2
37.5°	1474.6	1472.2	1467.4	1462.6	1486.7	1491.5	1493.9	1503.6	1525.2	1559.0	1554.2
40°	1315.6	1318.0	1315.6	1306.0	1320.4	1339.7	1337.3	1342.1	1361.4	1385.5	1378.3
42.5°	1166.2	1166.2	1166.2	1156.6	1173.5	1183.1	1187.9	1185.5	1190.3	1212.0	1202.4
45°	1024.1	1026.5	1024.1	1021.7	1024.1	1028.9	1024.1	1021.7	1021.7	1028.9	1014.4
47.5°	901.2	901.2	893.9	886.7	893.9	896.4	889.1	881.9	879.5	877.1	853.0
50°	790.3	787.9	785.5	773.5	780.7	783.1	773.5	768.6	759.0	747.0	718.0
52.5°	694.0	691.5	689.1	677.1	681.9	684.3	674.7	665.0	653.0	643.4	607.2
55°	612.0	609.6	609.6	602.4	597.6	602.4	592.8	585.5	568.7	556.6	520.5
57.5°	542.1	542.1	537.3	530.1	532.5	532.5	522.9	513.2	498.8	484.3	455.4
60°	481.9	481.9	481.9	474.7	474.7	474.7	469.9	460.2	448.2	433.7	404.8
62.5°	433.7	433.7	431.3	424.1	426.5	426.5	421.7	412.0	400.0	390.3	361.4
65°	395.2	395.2	395.2	387.9	387.9	390.3	385.5	375.9	366.3	354.2	327.7
67.5°	347.0	344.6	344.6	339.7	342.2	344.6	339.7	332.5	320.5	313.2	289.1
70°	286.7	289.1	291.6	284.3	286.7	286.7	284.3	277.1	269.9	262.6	241.0
72.5°	233.7	233.7	231.3	228.9	228.9	231.3	226.5	219.3	214.5	209.6	192.8
75°	178.3	175.9	178.3	173.5	173.5	173.5	168.7	166.3	163.8	156.6	144.6
77.5°	130.1	127.7	127.7	122.9	125.3	125.3	122.9	118.1	113.2	110.8	101.2
80°	89.2	89.2	89.2	86.7	86.7	84.3	84.3	81.9	77.1	74.7	69.9
82.5°	60.2	60.2	60.2	57.8	57.8	57.8	55.4	53.0	50.6	48.2	43.4
85°	38.6	38.6	38.6	36.1	36.1	36.1	33.7	33.7	31.3	28.9	24.1
87.5°	21.7	21.7	21.7	19.3	19.3	19.3	19.3	19.3	16.9	14.5	12.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4
2.5°	2510.8	2477.0	2498.7	2498.7	2491.5	2510.8	2522.8	2532.4	2530.0	2508.3	2505.9
5°	2491.5	2462.6	2486.7	2489.1	2481.8	2508.3	2525.2	2537.3	2539.7	2520.4	2522.8
7.5°	2477.0	2452.9	2484.2	2493.9	2491.5	2515.6	2534.8	2554.1	2563.8	2549.3	2551.7
10°	2469.8	2450.5	2484.2	2498.7	2501.1	2527.6	2556.5	2583.0	2595.1	2585.5	2592.7
12.5°	2460.2	2448.1	2486.7	2508.3	2518.0	2544.5	2580.6	2612.0	2631.2	2626.4	2640.9
15°	2450.5	2440.9	2486.7	2518.0	2530.0	2554.1	2595.1	2640.9	2662.6	2660.1	2679.4
17.5°	2426.4	2424.0	2472.2	2505.9	2522.8	2551.7	2590.3	2645.7	2667.4	2672.2	2696.3
20°	2387.9	2387.9	2440.9	2477.0	2496.3	2522.8	2571.0	2624.0	2650.5	2655.3	2681.8
22.5°	2334.9	2339.7	2390.3	2426.4	2455.3	2474.6	2525.2	2580.6	2604.7	2612.0	2640.9
25°	2265.0	2269.8	2318.0	2354.1	2385.5	2407.1	2455.3	2505.9	2534.8	2542.1	2563.8
27.5°	2173.4	2183.1	2228.8	2265.0	2291.5	2305.9	2356.5	2409.6	2431.2	2438.5	2460.2
30°	2067.4	2069.8	2115.6	2146.9	2173.4	2185.5	2228.8	2284.3	2301.1	2308.4	2339.7
32.5°	1937.3	1934.9	1978.2	2007.2	2028.8	2043.3	2089.1	2125.2	2142.1	2154.1	2171.0
35°	1780.7	1778.3	1809.6	1843.3	1860.2	1865.0	1910.8	1949.3	1959.0	1968.6	1990.3
37.5°	1604.8	1604.8	1631.3	1648.1	1667.4	1674.6	1696.3	1739.7	1756.6	1754.2	1771.0
40°	1419.2	1409.6	1428.9	1445.7	1450.6	1453.0	1474.6	1508.4	1520.4	1520.4	1532.5
42.5°	1224.1	1209.6	1212.0	1221.6	1226.5	1209.6	1224.1	1245.7	1238.5	1248.1	1250.6
45°	1016.8	995.1	985.5	963.8	968.6	951.8	942.1	947.0	944.5	920.4	925.3
47.5°	848.2	809.6	792.7	761.4	754.2	734.9	722.9	701.2	681.9	681.9	669.9
50°	706.0	667.4	633.7	597.6	585.5	568.7	542.1	513.2	498.8	484.3	472.3
52.5°	592.8	551.8	510.8	472.3	455.4	433.7	397.6	368.7	342.2	327.7	313.2
55°	501.2	455.4	412.0	371.1	349.4	327.7	291.6	257.8	226.5	207.2	195.2
57.5°	431.3	387.9	342.2	298.8	279.5	255.4	216.9	180.7	151.8	130.1	118.1
60°	380.7	337.3	296.4	250.6	231.3	207.2	166.3	132.5	103.6	84.3	69.9
62.5°	337.3	298.8	255.4	214.5	195.2	171.1	132.5	98.8	72.3	53.0	41.0
65°	306.0	267.5	231.3	190.4	173.5	149.4	113.2	81.9	57.8	41.0	28.9
67.5°	269.9	236.1	200.0	166.3	149.4	130.1	96.4	69.9	48.2	33.7	24.1
70°	226.5	200.0	168.7	137.3	125.3	108.4	79.5	57.8	38.6	26.5	19.3
72.5°	180.7	159.0	134.9	110.8	101.2	84.3	65.1	45.8	28.9	19.3	14.5
75°	137.3	120.5	101.2	84.3	74.7	65.1	48.2	33.7	21.7	14.5	9.6
77.5°	94.0	86.7	72.3	57.8	53.0	45.8	31.3	21.7	14.5	9.6	4.8
80°	65.1	57.8	48.2	38.6	33.7	28.9	19.3	14.5	7.2	4.8	2.4
82.5°	41.0	33.7	28.9	24.1	21.7	16.9	12.0	7.2	4.8	2.4	2.4
85°	21.7	19.3	16.9	12.0	12.0	9.6	7.2	4.8	2.4	0.0	0.0
87.5°	12.0	9.6	7.2	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°	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4
2.5°	2534.8	2534.8	2532.4	2561.4	2527.6	2561.4	2544.5	2561.4	2537.3	2534.8	2537.3
5°	2554.1	2561.4	2563.8	2590.3	2558.9	2599.9	2585.5	2599.9	2583.0	2587.9	2595.1
7.5°	2592.7	2604.7	2602.3	2636.1	2604.7	2650.5	2640.9	2662.6	2645.7	2650.5	2660.1
10°	2636.1	2650.5	2652.9	2686.7	2657.7	2713.2	2701.1	2725.2	2710.7	2718.0	2730.0
12.5°	2686.7	2703.5	2705.9	2744.5	2713.2	2771.0	2763.8	2787.9	2775.8	2783.0	2797.5
15°	2725.2	2749.3	2754.1	2792.7	2758.9	2819.2	2814.4	2845.7	2826.4	2838.5	2850.5
17.5°	2744.5	2766.2	2775.8	2811.9	2783.0	2843.3	2838.5	2865.0	2850.5	2862.5	2877.0
20°	2732.4	2758.9	2766.2	2802.3	2773.4	2833.6	2826.4	2852.9	2838.5	2848.1	2862.5
22.5°	2689.1	2715.6	2725.2	2758.9	2732.4	2787.9	2785.4	2809.5	2790.3	2802.3	2814.4
25°	2612.0	2640.9	2645.7	2677.0	2648.1	2705.9	2701.1	2727.6	2713.2	2720.4	2737.3
27.5°	2501.1	2534.8	2542.1	2568.6	2546.9	2595.1	2595.1	2616.8	2599.9	2599.9	2616.8
30°	2368.6	2402.3	2407.1	2428.8	2409.6	2452.9	2455.3	2477.0	2450.5	2465.0	2467.4
32.5°	2207.2	2228.8	2243.3	2262.6	2233.7	2289.1	2281.8	2298.7	2284.3	2284.3	2296.3
35°	2012.0	2038.5	2045.7	2069.8	2045.7	2089.1	2089.1	2098.7	2084.3	2084.3	2103.5
37.5°	1799.9	1819.2	1821.6	1845.7	1826.4	1862.6	1860.2	1867.4	1852.9	1862.6	1862.6
40°	1551.8	1566.2	1571.0	1583.1	1580.7	1607.2	1604.8	1609.6	1602.4	1604.8	1609.6
42.5°	1262.6	1281.9	1291.5	1301.2	1286.7	1322.8	1315.6	1322.8	1320.4	1322.8	1330.1
45°	930.1	944.5	951.8	954.2	949.4	971.0	987.9	973.5	975.9	971.0	980.7
47.5°	672.3	674.7	669.9	684.3	672.3	681.9	686.7	689.1	674.7	672.3	681.9
50°	460.2	472.3	455.4	462.6	460.2	469.9	465.0	467.5	453.0	460.2	455.4
52.5°	306.0	303.6	298.8	301.2	296.4	296.4	296.4	301.2	291.6	286.7	281.9
55°	185.5	180.7	171.1	168.7	168.7	171.1	166.3	161.4	161.4	159.0	159.0
57.5°	108.4	101.2	96.4	94.0	89.2	86.7	84.3	84.3	79.5	79.5	79.5
60°	60.2	53.0	48.2	43.4	43.4	41.0	38.6	36.1	36.1	36.1	33.7
62.5°	31.3	26.5	21.7	19.3	19.3	16.9	14.5	14.5	14.5	14.5	12.0
65°	21.7	16.9	14.5	12.0	12.0	9.6	9.6	9.6	9.6	9.6	9.6
67.5°	16.9	14.5	12.0	9.6	9.6	9.6	7.2	7.2	7.2	7.2	7.2
70°	14.5	9.6	9.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
72.5°	9.6	9.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
75°	7.2	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: P252188

CATALOG NUMBER: LD6B40D010 EU6B30509035 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4	2520.4
2.5°	2558.9	2556.5	2558.9	2563.8	2554.1	2583.0	2568.6	2583.0
5°	2614.4	2616.8	2619.2	2626.4	2614.4	2650.5	2631.2	2652.9
7.5°	2686.7	2689.1	2691.5	2698.7	2691.5	2727.6	2705.9	2725.2
10°	2761.3	2766.2	2766.2	2778.2	2771.0	2804.7	2790.3	2814.4
12.5°	2831.2	2836.0	2840.9	2848.1	2843.3	2879.4	2867.4	2886.6
15°	2886.6	2896.3	2898.7	2908.3	2903.5	2942.1	2927.6	2946.9
17.5°	2913.1	2922.8	2922.8	2934.8	2930.0	2971.0	2951.7	2973.4
20°	2898.7	2905.9	2908.3	2920.4	2915.6	2956.5	2937.2	2963.8
22.5°	2852.9	2855.3	2857.7	2869.8	2867.4	2903.5	2886.6	2903.5
25°	2768.6	2775.8	2773.4	2783.0	2783.0	2811.9	2792.7	2807.1
27.5°	2648.1	2655.3	2655.3	2667.4	2657.7	2686.7	2667.4	2689.1
30°	2501.1	2508.3	2503.5	2513.2	2503.5	2532.4	2518.0	2525.2
32.5°	2325.2	2325.2	2327.6	2330.0	2325.2	2351.7	2337.3	2351.7
35°	2115.6	2120.4	2122.8	2125.2	2120.4	2139.7	2122.8	2132.5
37.5°	1879.5	1891.5	1889.1	1891.5	1884.3	1908.4	1893.9	1898.7
40°	1626.4	1626.4	1624.0	1628.9	1621.6	1640.9	1631.3	1636.1
42.5°	1332.5	1339.7	1330.1	1342.1	1322.8	1349.3	1339.7	1332.5
45°	1000.0	990.3	987.9	990.3	983.1	985.5	992.7	987.9
47.5°	681.9	681.9	677.1	669.9	679.5	681.9	672.3	672.3
50°	457.8	457.8	453.0	450.6	455.4	453.0	448.2	455.4
52.5°	291.6	281.9	281.9	286.7	281.9	277.1	284.3	279.5
55°	159.0	154.2	154.2	159.0	154.2	154.2	151.8	156.6
57.5°	77.1	79.5	77.1	77.1	77.1	77.1	74.7	77.1
60°	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
62.5°	14.5	14.5	12.0	12.0	12.0	12.0	12.0	12.0
65°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
67.5°	7.2	7.2	7.2	7.2	7.2	9.6	7.2	7.2
70°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
72.5°	7.2	7.2	9.6	9.6	9.6	9.6	9.6	9.6
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)