

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: P252539

Luminaire Tested: **LD6B70D010TE EU6B60709035 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B70D010TE EU6B60709035 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5213.0 lumens  
Efficiency: N/A  
Efficacy: 65.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

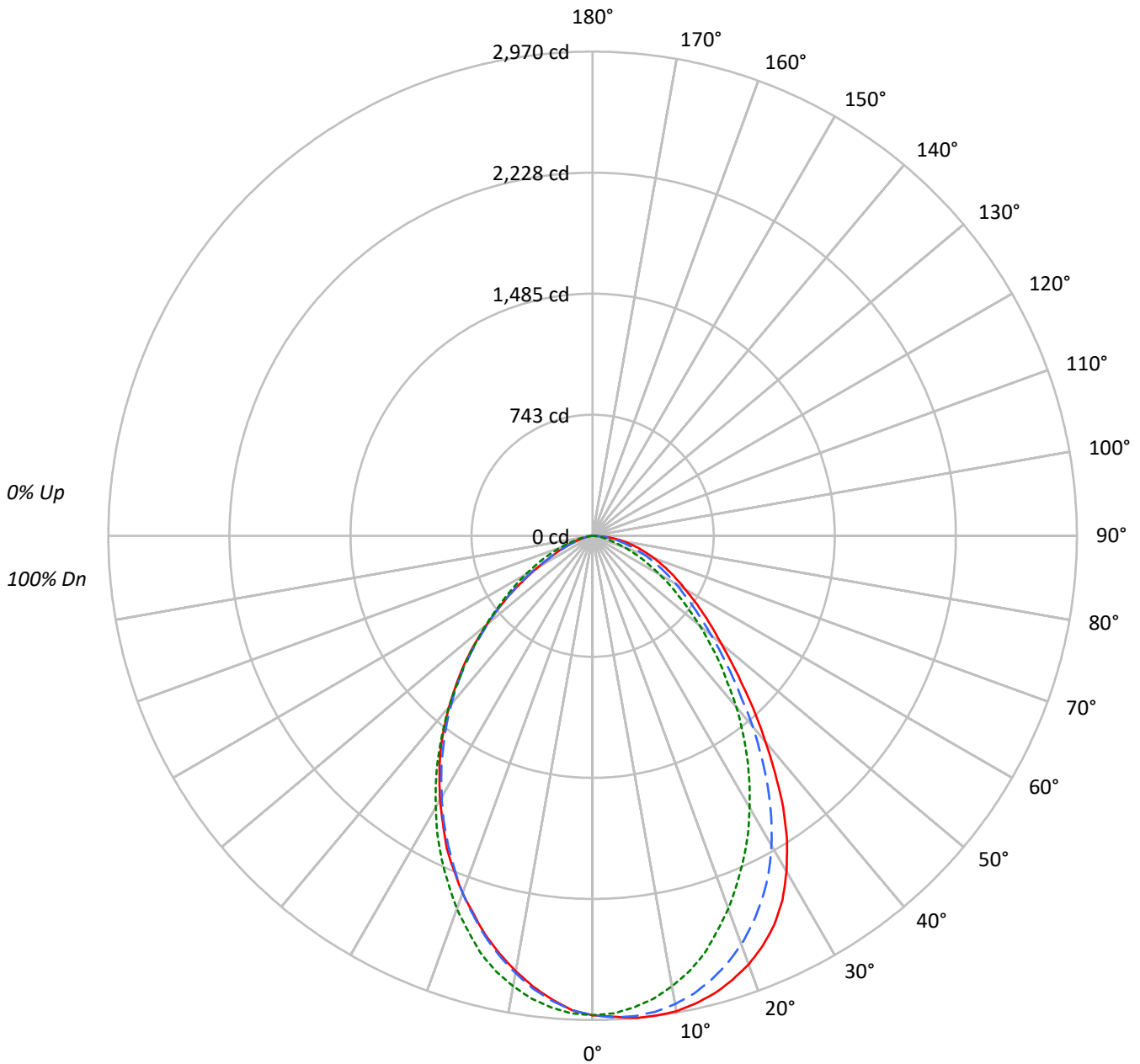
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

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

	0°	90°	180°
0°	191866	191866	191866
5°	194472	190189	186980
10°	196177	185896	179675
15°	196149	179047	171320
20°	194252	169015	161926
25°	189652	157597	152306
30°	179083	144926	140926
35°	162331	131429	129804
40°	140191	116881	116532
45°	120220	101749	102506
50°	104470	87064	85815
55°	93850	73410	68758
60°	85269	61822	50627
65°	80073	51082	37204
70°	76358	39733	27277
75°	73100	28837	18527
80°	69055	19950	12286
85°	61157	12201	6138



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.1	5.3
10°-20°	753.4	14.5
20°-30°	1046.0	20.1
30°-40°	1083.4	20.8
40°-50°	890.3	17.1
50°-60°	611.9	11.7
60°-70°	351.8	6.7
70°-80°	161.7	3.1
80°-90°	39.4	0.8
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°	2074.5	39.8
0°-40°	3158.0	60.6
0°-60°	4660.2	89.4
0°-90°	5213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5213.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2941	2941	2941	2941	2941	
5°	2970	2957	2904	2863	2855	283
15°	2904	2818	2651	2545	2536	818
25°	2635	2459	2189	2095	2116	1206
35°	2038	1871	1650	1601	1630	1264
45°	1303	1205	1103	1091	1111	1015
55°	825	748	645	609	604	742
65°	519	453	331	233	241	516
75°	290	229	114	74	74	307
85°	82	57	16	8	8	92
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°	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9
2.5°	2953.2	2977.7	2961.3	2957.2	2965.4	2965.4	2965.4	2953.2	2961.3	2949.1	2957.2
5°	2969.5	2989.9	2973.6	2965.4	2973.6	2977.7	2965.4	2957.2	2969.5	2953.2	2957.2
7.5°	2969.5	2989.9	2973.6	2969.5	2973.6	2973.6	2969.5	2953.2	2961.3	2945.0	2945.0
10°	2961.3	2977.7	2961.3	2953.2	2957.2	2953.2	2953.2	2932.7	2936.8	2916.4	2916.4
12.5°	2936.8	2957.2	2936.8	2928.7	2928.7	2928.7	2916.4	2900.1	2904.1	2879.6	2875.6
15°	2904.1	2920.5	2900.1	2891.9	2891.9	2887.8	2879.6	2855.1	2855.1	2830.6	2818.4
17.5°	2855.1	2871.5	2855.1	2842.9	2838.8	2830.6	2822.5	2797.9	2789.8	2761.2	2748.9
20°	2797.9	2810.2	2793.9	2781.6	2773.4	2765.3	2748.9	2724.4	2716.3	2687.7	2667.2
22.5°	2724.4	2740.8	2716.3	2704.0	2695.8	2683.6	2667.2	2642.7	2630.5	2593.7	2569.2
25°	2634.6	2642.7	2622.3	2610.1	2593.7	2585.5	2573.3	2540.6	2528.4	2487.5	2458.9
27.5°	2520.2	2528.4	2503.9	2495.7	2475.3	2467.1	2450.8	2422.2	2405.8	2365.0	2336.4
30°	2377.2	2385.4	2369.1	2356.8	2340.5	2324.1	2311.9	2283.3	2258.8	2217.9	2193.4
32.5°	2217.9	2230.2	2213.8	2197.5	2168.9	2173.0	2152.6	2124.0	2103.6	2066.8	2038.2
35°	2038.2	2046.4	2026.0	2021.9	2005.5	1989.2	1968.8	1948.3	1936.1	1895.2	1870.7
37.5°	1838.1	1858.5	1838.1	1821.7	1813.6	1801.3	1789.0	1760.5	1752.3	1727.8	1695.1
40°	1646.1	1658.3	1646.1	1629.8	1617.5	1617.5	1601.2	1584.8	1564.4	1539.9	1527.6
42.5°	1474.5	1466.4	1462.3	1454.1	1437.8	1433.7	1429.6	1409.2	1396.9	1372.4	1352.0
45°	1303.0	1307.1	1298.9	1294.8	1282.6	1274.4	1266.2	1249.9	1245.8	1221.3	1205.0
47.5°	1160.0	1155.9	1147.8	1147.8	1139.6	1131.4	1123.3	1111.0	1106.9	1086.5	1070.2
50°	1029.3	1033.4	1029.3	1025.2	1013.0	1008.9	1000.7	992.6	984.4	964.0	947.6
52.5°	923.1	919.0	914.9	914.9	902.7	898.6	890.4	882.3	874.1	853.7	841.4
55°	825.1	825.1	821.0	816.9	804.7	800.6	796.5	788.3	776.1	759.7	747.5
57.5°	735.2	735.2	731.1	727.1	718.9	718.9	710.7	702.5	694.4	678.0	661.7
60°	653.5	657.6	653.5	649.4	641.3	641.3	637.2	624.9	620.9	600.4	588.2
62.5°	584.1	584.1	584.1	580.0	575.9	567.8	567.8	555.5	547.3	535.1	518.7
65°	518.7	518.7	518.7	514.7	506.5	502.4	498.3	490.2	482.0	469.7	453.4
67.5°	457.5	457.5	457.5	453.4	445.2	441.1	437.1	433.0	420.7	408.5	392.1
70°	400.3	400.3	396.2	392.1	388.0	384.0	379.9	371.7	363.5	347.2	334.9
72.5°	343.1	343.1	343.1	334.9	330.9	330.9	322.7	318.6	310.4	294.1	281.8
75°	290.0	285.9	285.9	281.8	277.8	273.7	269.6	265.5	253.2	245.1	228.7
77.5°	236.9	236.9	232.8	228.7	228.7	224.7	220.6	212.4	208.3	196.1	183.8
80°	183.8	183.8	183.8	183.8	179.7	175.6	175.6	167.5	163.4	151.1	143.0
82.5°	138.9	134.8	134.8	134.8	130.7	126.6	126.6	122.5	118.5	110.3	102.1
85°	81.7	77.6	77.6	77.6	73.5	73.5	69.4	69.4	65.4	57.2	57.2
87.5°	24.5	24.5	28.6	28.6	24.5	24.5	24.5	24.5	24.5	20.4	20.4
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°	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9
2.5°	2949.1	2961.3	2945.0	2940.9	2957.2	2949.1	2945.0	2936.8	2940.9	2932.7	2920.5
5°	2945.0	2961.3	2940.9	2928.7	2949.1	2936.8	2928.7	2920.5	2920.5	2904.1	2896.0
7.5°	2932.7	2940.9	2920.5	2908.2	2920.5	2908.2	2900.1	2887.8	2883.7	2863.3	2851.0
10°	2900.1	2908.2	2883.7	2867.4	2879.6	2863.3	2851.0	2838.8	2830.6	2806.1	2789.8
12.5°	2855.1	2859.2	2830.6	2810.2	2818.4	2806.1	2785.7	2769.4	2761.2	2736.7	2716.3
15°	2793.9	2797.9	2765.3	2736.7	2744.8	2728.5	2704.0	2687.7	2675.4	2650.9	2622.3
17.5°	2720.3	2716.3	2679.5	2650.9	2655.0	2634.6	2610.1	2585.5	2569.2	2540.6	2520.2
20°	2638.6	2626.4	2585.5	2552.9	2557.0	2532.4	2503.9	2479.3	2458.9	2434.4	2405.8
22.5°	2536.5	2520.2	2483.4	2442.6	2446.7	2426.2	2385.4	2365.0	2344.6	2311.9	2287.4
25°	2426.2	2401.7	2365.0	2324.1	2324.1	2299.6	2266.9	2242.4	2222.0	2189.3	2160.7
27.5°	2295.5	2283.3	2234.3	2201.6	2197.5	2173.0	2144.4	2115.8	2091.3	2062.7	2034.1
30°	2152.6	2132.2	2095.4	2058.6	2050.5	2030.0	2001.4	1968.8	1952.4	1923.8	1899.3
32.5°	2001.4	1981.0	1940.2	1903.4	1899.3	1883.0	1858.5	1825.8	1809.5	1789.0	1772.7
35°	1829.9	1821.7	1780.9	1752.3	1752.3	1736.0	1711.4	1682.9	1670.6	1650.2	1629.8
37.5°	1666.5	1654.3	1617.5	1593.0	1593.0	1572.6	1548.1	1535.8	1523.6	1507.2	1495.0
40°	1495.0	1486.8	1458.2	1433.7	1437.8	1421.4	1405.1	1388.8	1380.6	1372.4	1360.2
42.5°	1335.7	1327.5	1307.1	1286.6	1286.6	1274.4	1258.1	1245.8	1237.6	1225.4	1221.3
45°	1192.7	1180.4	1164.1	1143.7	1143.7	1131.4	1123.3	1115.1	1111.0	1102.8	1090.6
47.5°	1053.8	1045.7	1029.3	1008.9	1008.9	1008.9	992.6	980.3	980.3	972.1	968.0
50°	935.4	923.1	910.9	894.5	894.5	886.4	874.1	861.8	861.8	857.8	849.6
52.5°	825.1	816.9	800.6	784.2	784.2	776.1	763.8	759.7	755.6	743.4	739.3
55°	731.1	723.0	710.7	690.3	686.2	682.1	669.9	661.7	657.6	645.4	645.4
57.5°	645.4	637.2	616.8	604.5	600.4	592.3	580.0	571.8	567.8	559.6	551.4
60°	571.8	559.6	543.3	526.9	522.8	514.7	502.4	494.2	490.2	473.8	465.6
62.5°	502.4	490.2	473.8	457.5	453.4	445.2	428.9	420.7	412.5	396.2	388.0
65°	437.1	424.8	408.5	392.1	384.0	379.9	363.5	351.3	343.1	330.9	314.5
67.5°	375.8	363.5	347.2	326.8	326.8	314.5	302.3	290.0	277.8	265.5	253.2
70°	318.6	306.3	290.0	273.7	269.6	261.4	249.2	232.8	224.7	208.3	196.1
72.5°	265.5	253.2	236.9	220.6	216.5	208.3	196.1	179.7	167.5	155.2	143.0
75°	216.5	204.2	187.9	175.6	171.6	163.4	151.1	134.8	122.5	114.4	102.1
77.5°	171.6	159.3	147.0	134.8	130.7	122.5	110.3	102.1	89.9	81.7	69.4
80°	130.7	122.5	110.3	102.1	98.0	89.9	81.7	69.4	61.3	53.1	49.0
82.5°	93.9	85.8	77.6	65.4	65.4	57.2	53.1	44.9	36.8	32.7	28.6
85°	53.1	44.9	40.8	36.8	32.7	32.7	28.6	24.5	20.4	16.3	16.3
87.5°	16.3	16.3	12.3	12.3	12.3	12.3	8.2	8.2	8.2	8.2	8.2
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°	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9
2.5°	2920.5	2924.6	2916.4	2924.6	2916.4	2920.5	2912.3	2920.5	2912.3	2920.5	2904.1
5°	2891.9	2891.9	2879.6	2887.8	2879.6	2883.7	2867.4	2871.5	2863.3	2871.5	2855.1
7.5°	2842.9	2847.0	2826.5	2834.7	2822.5	2822.5	2810.2	2814.3	2802.0	2806.1	2793.9
10°	2785.7	2781.6	2761.2	2769.4	2753.0	2753.0	2740.8	2740.8	2724.4	2728.5	2712.2
12.5°	2704.0	2699.9	2675.4	2683.6	2667.2	2667.2	2655.0	2655.0	2638.6	2646.8	2630.5
15°	2610.1	2606.0	2581.5	2585.5	2569.2	2569.2	2552.9	2557.0	2544.7	2552.9	2536.5
17.5°	2503.9	2499.8	2475.3	2479.3	2458.9	2463.0	2450.8	2446.7	2438.5	2442.6	2430.3
20°	2393.6	2385.4	2360.9	2365.0	2356.8	2344.6	2336.4	2340.5	2332.3	2340.5	2328.2
22.5°	2279.2	2262.9	2242.4	2242.4	2234.3	2234.3	2222.0	2230.2	2213.8	2226.1	2217.9
25°	2148.5	2136.2	2119.9	2128.1	2111.7	2111.7	2099.5	2103.6	2095.4	2103.6	2095.4
27.5°	2021.9	2013.7	1989.2	1997.4	1985.1	1989.2	1976.9	1981.0	1976.9	1985.1	1976.9
30°	1887.1	1883.0	1866.7	1866.7	1862.6	1858.5	1854.4	1854.4	1850.3	1862.6	1854.4
32.5°	1760.5	1748.2	1731.9	1744.1	1723.7	1736.0	1727.8	1736.0	1727.8	1736.0	1731.9
35°	1629.8	1625.7	1605.2	1609.3	1605.2	1605.2	1601.2	1601.2	1601.2	1613.4	1613.4
37.5°	1490.9	1486.8	1474.5	1478.6	1470.5	1466.4	1466.4	1474.5	1474.5	1482.7	1482.7
40°	1356.1	1360.2	1347.9	1347.9	1343.8	1343.8	1343.8	1352.0	1347.9	1356.1	1352.0
42.5°	1221.3	1221.3	1209.0	1213.1	1209.0	1213.1	1213.1	1221.3	1221.3	1225.4	1221.3
45°	1094.7	1094.7	1090.6	1094.7	1086.5	1090.6	1086.5	1094.7	1090.6	1094.7	1094.7
47.5°	968.0	968.0	968.0	964.0	964.0	964.0	964.0	964.0	959.9	968.0	964.0
50°	849.6	853.7	849.6	849.6	845.5	849.6	845.5	845.5	837.3	841.4	841.4
52.5°	743.4	743.4	735.2	735.2	735.2	731.1	731.1	731.1	727.1	727.1	718.9
55°	641.3	641.3	633.1	633.1	629.0	624.9	620.9	620.9	608.6	608.6	596.3
57.5°	547.3	543.3	531.0	531.0	522.8	518.7	514.7	510.6	502.4	494.2	490.2
60°	461.6	453.4	445.2	441.1	433.0	424.8	416.6	408.5	400.3	396.2	392.1
62.5°	379.9	367.6	359.4	355.4	347.2	334.9	326.8	318.6	310.4	306.3	298.2
65°	306.3	294.1	281.8	277.8	269.6	261.4	249.2	241.0	232.8	228.7	228.7
67.5°	241.0	228.7	212.4	212.4	204.2	196.1	187.9	179.7	175.6	179.7	179.7
70°	179.7	171.6	159.3	155.2	147.0	138.9	134.8	134.8	134.8	138.9	134.8
72.5°	134.8	122.5	114.4	110.3	106.2	102.1	102.1	102.1	98.0	102.1	102.1
75°	93.9	85.8	77.6	77.6	73.5	73.5	73.5	73.5	73.5	73.5	73.5
77.5°	65.4	57.2	53.1	53.1	53.1	49.0	49.0	49.0	49.0	49.0	49.0
80°	40.8	40.8	36.8	36.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
82.5°	24.5	24.5	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
85°	12.3	12.3	12.3	12.3	12.3	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	4.1	4.1	4.1	4.1	4.1	8.2	8.2	8.2	8.2	8.2	8.2
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: P252539

CATALOG NUMBER: LD6B70D010TE EU6B60709035 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9
2.5°	2904.1	2916.4	2900.1	2912.3	2908.2	2904.1	2896.0	2912.3
5°	2855.1	2859.2	2842.9	2859.2	2855.1	2847.0	2838.8	2855.1
7.5°	2785.7	2797.9	2777.5	2793.9	2789.8	2781.6	2773.4	2789.8
10°	2708.1	2720.3	2704.0	2716.3	2716.3	2708.1	2695.8	2712.2
12.5°	2622.3	2630.5	2614.1	2630.5	2626.4	2618.2	2614.1	2626.4
15°	2528.4	2540.6	2524.3	2536.5	2532.4	2528.4	2524.3	2536.5
17.5°	2426.2	2438.5	2426.2	2438.5	2438.5	2426.2	2422.2	2430.3
20°	2324.1	2332.3	2320.0	2332.3	2328.2	2328.2	2320.0	2332.3
22.5°	2209.8	2222.0	2213.8	2222.0	2217.9	2217.9	2213.8	2222.0
25°	2095.4	2107.6	2095.4	2107.6	2103.6	2103.6	2095.4	2115.8
27.5°	1981.0	1989.2	1976.9	1993.3	1989.2	1981.0	1985.1	1989.2
30°	1858.5	1866.7	1858.5	1870.7	1870.7	1870.7	1862.6	1870.7
32.5°	1736.0	1748.2	1736.0	1748.2	1744.1	1744.1	1740.0	1748.2
35°	1613.4	1617.5	1609.3	1621.6	1621.6	1625.7	1617.5	1629.8
37.5°	1486.8	1490.9	1486.8	1490.9	1499.0	1486.8	1495.0	1499.0
40°	1356.1	1364.3	1360.2	1364.3	1364.3	1368.3	1364.3	1368.3
42.5°	1225.4	1233.5	1225.4	1237.6	1233.5	1233.5	1237.6	1237.6
45°	1090.6	1102.8	1094.7	1102.8	1106.9	1102.8	1102.8	1111.0
47.5°	964.0	972.1	968.0	972.1	972.1	972.1	972.1	980.3
50°	837.3	841.4	841.4	845.5	845.5	849.6	841.4	845.5
52.5°	710.7	718.9	718.9	718.9	714.8	718.9	718.9	718.9
55°	596.3	600.4	592.3	600.4	600.4	596.3	596.3	604.5
57.5°	486.1	486.1	486.1	486.1	486.1	482.0	486.1	486.1
60°	384.0	388.0	384.0	384.0	384.0	384.0	379.9	388.0
62.5°	298.2	298.2	294.1	298.2	298.2	298.2	302.3	302.3
65°	232.8	236.9	232.8	236.9	236.9	236.9	236.9	241.0
67.5°	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8
70°	138.9	138.9	138.9	143.0	138.9	138.9	138.9	143.0
72.5°	102.1	102.1	102.1	102.1	102.1	102.1	106.2	106.2
75°	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
77.5°	49.0	49.0	49.0	53.1	49.0	53.1	49.0	49.0
80°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
82.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
85°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)