

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: P252643

Luminaire Tested: **LD6B70D010TE EU6B60709035 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B70D010TE EU6B60709035 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE 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: 6120.0 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

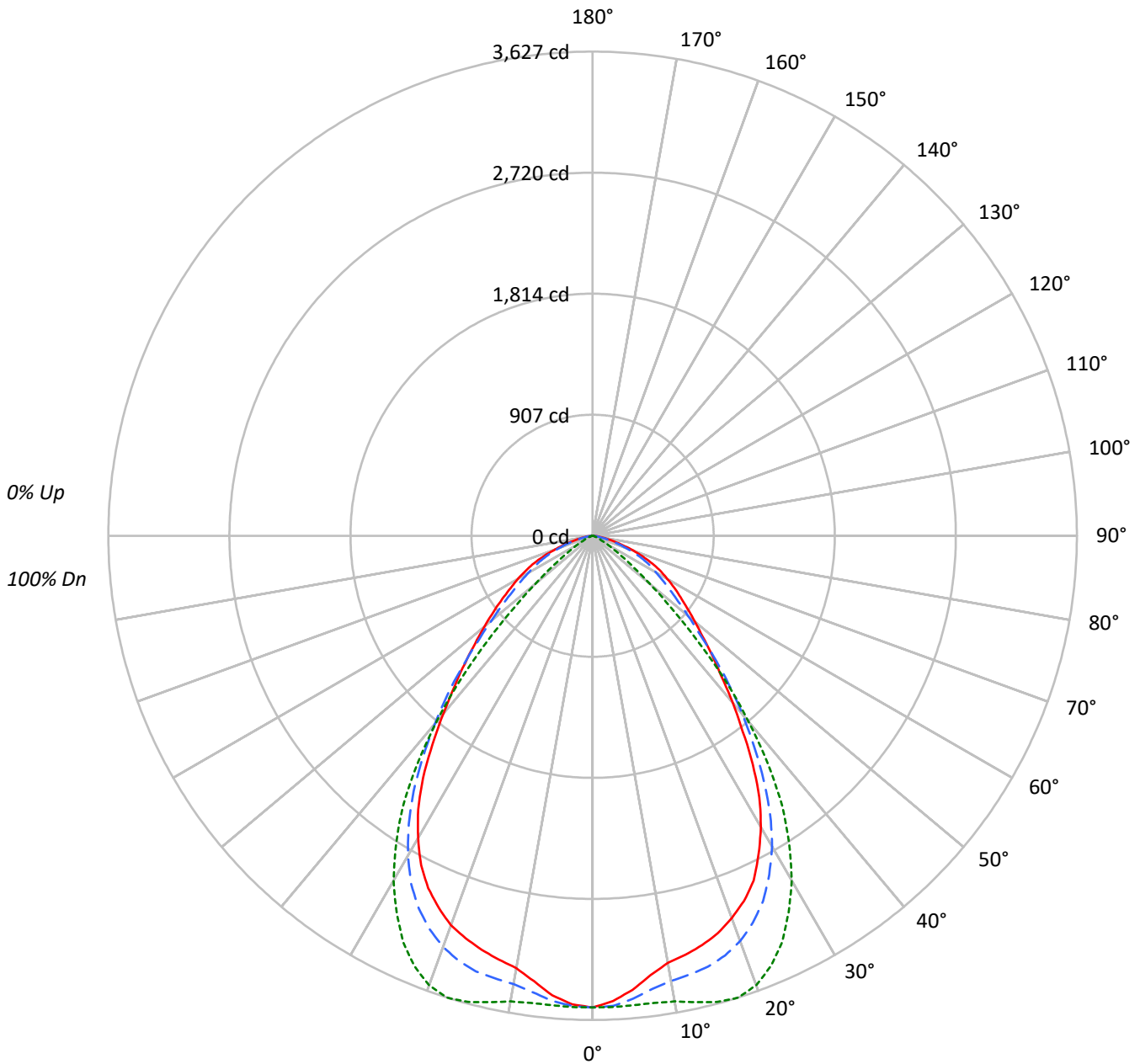
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°	90°	180°
0°	230521	230521	230521
5°	223641	231133	226320
10°	215131	234621	217840
15°	214372	244171	216857
20°	211567	248718	215538
25°	205244	241704	209657
30°	189863	224637	196944
35°	166568	197478	176332
40°	138803	154814	147856
45°	116834	102136	124750
50°	101161	55975	107383
55°	91529	29733	93850
60°	84213	15462	84213
65°	76306	8197	74408
70°	61555	4673	56882
75°	42222	3100	39121
80°	27614	1540	24571
85°	18340	3069	15270



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.5	5.4
10°-20°	952.7	15.6
20°-30°	1407.7	23.0
30°-40°	1421.8	23.2
40°-50°	980.0	16.0
50°-60°	562.9	9.2
60°-70°	327.6	5.4
70°-80°	119.5	2.0
80°-90°	18.3	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°	2689.9	44.0
0°-40°	4111.7	67.2
0°-60°	5654.6	92.4
0°-90°	6120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6120.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3533	3533	3533	3533	3533	
5°	3415	3480	3529	3497	3456	320
15°	3174	3341	3615	3378	3211	894
25°	2851	3019	3358	3080	2912	1299
35°	2091	2234	2480	2336	2214	1298
45°	1266	1283	1107	1364	1352	985
55°	805	707	261	735	825	724
65°	494	417	53	413	482	484
75°	168	135	12	131	155	189
85°	24	12	4	16	20	31
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°	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4
2.5°	3488.4	3492.5	3496.6	3492.5	3496.6	3513.0	3500.7	3508.9	3508.9	3513.0	3525.2
5°	3414.9	3414.9	3423.1	3419.0	3431.3	3447.6	3435.3	3447.6	3451.7	3459.9	3480.3
7.5°	3321.0	3321.0	3325.1	3325.1	3341.4	3357.7	3349.6	3365.9	3382.2	3398.6	3423.1
10°	3247.4	3255.6	3255.6	3259.7	3276.0	3296.5	3292.4	3312.8	3329.1	3353.6	3386.3
12.5°	3214.8	3218.8	3218.8	3227.0	3243.4	3263.8	3259.7	3280.1	3304.6	3333.2	3365.9
15°	3173.9	3182.1	3178.0	3186.2	3202.5	3222.9	3218.8	3239.3	3267.9	3296.5	3341.4
17.5°	3120.8	3124.9	3129.0	3129.0	3145.3	3161.7	3161.7	3182.1	3214.8	3247.4	3296.5
20°	3047.3	3055.5	3055.5	3059.5	3071.8	3096.3	3092.2	3112.6	3145.3	3178.0	3231.1
22.5°	2961.5	2965.6	2965.6	2969.7	2990.1	3002.4	3006.4	3022.8	3051.4	3088.1	3137.2
25°	2851.2	2855.3	2851.2	2863.5	2871.6	2896.1	2888.0	2908.4	2941.1	2969.7	3018.7
27.5°	2691.9	2700.1	2700.1	2704.2	2724.6	2745.0	2745.0	2765.4	2794.0	2814.5	2863.5
30°	2520.3	2532.6	2520.3	2540.8	2548.9	2565.3	2577.5	2589.8	2614.3	2642.9	2687.8
32.5°	2324.3	2320.2	2324.3	2332.4	2356.9	2369.2	2377.4	2389.6	2414.1	2438.6	2475.4
35°	2091.4	2099.6	2103.7	2120.0	2120.0	2140.5	2144.5	2152.7	2189.5	2205.8	2234.4
37.5°	1846.3	1854.5	1858.6	1866.8	1883.1	1891.3	1903.5	1915.8	1940.3	1968.9	1985.2
40°	1629.8	1629.8	1633.9	1642.1	1654.4	1658.4	1670.7	1687.0	1703.4	1727.9	1744.2
42.5°	1425.6	1429.7	1425.6	1433.8	1446.0	1462.4	1458.3	1478.7	1482.8	1499.1	1511.4
45°	1266.3	1266.3	1258.1	1266.3	1266.3	1282.6	1278.6	1286.7	1282.6	1290.8	1282.6
47.5°	1115.2	1119.2	1115.2	1119.2	1119.2	1119.2	1123.3	1115.2	1119.2	1107.0	1082.5
50°	996.7	1000.8	992.6	996.7	992.6	988.5	992.6	980.4	976.3	959.9	935.4
52.5°	894.6	890.5	886.4	886.4	886.4	882.3	878.2	866.0	853.7	837.4	808.8
55°	804.7	800.6	796.5	796.5	788.4	784.3	784.3	772.0	759.8	739.4	706.7
57.5°	723.0	718.9	714.8	714.8	710.8	702.6	702.6	690.3	674.0	649.5	620.9
60°	645.4	645.4	645.4	641.3	641.3	633.1	633.1	620.9	604.6	580.0	547.4
62.5°	576.0	571.9	571.9	571.9	571.9	567.8	563.7	555.5	539.2	514.7	486.1
65°	494.3	494.3	494.3	494.3	490.2	490.2	490.2	477.9	469.8	445.2	416.7
67.5°	404.4	404.4	404.4	404.4	400.3	404.4	404.4	396.2	388.1	363.6	339.0
70°	322.7	318.6	314.5	318.6	314.5	314.5	318.6	310.4	306.4	285.9	261.4
72.5°	236.9	241.0	236.9	236.9	236.9	232.8	236.9	232.8	224.7	208.3	192.0
75°	167.5	171.6	171.6	167.5	167.5	167.5	163.4	163.4	155.2	143.0	134.8
77.5°	114.4	114.4	114.4	114.4	110.3	110.3	110.3	106.2	102.1	94.0	85.8
80°	73.5	73.5	73.5	73.5	69.4	69.4	69.4	65.4	65.4	57.2	49.0
82.5°	44.9	44.9	44.9	44.9	44.9	44.9	40.8	40.8	36.8	32.7	28.6
85°	24.5	24.5	24.5	24.5	24.5	24.5	24.5	20.4	20.4	16.3	12.3
87.5°	8.2	8.2	12.3	12.3	12.3	12.3	12.3	12.3	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4
2.5°	3517.0	3521.1	3521.1	3521.1	3533.4	3537.5	3525.2	3513.0	3537.5	3533.4	3541.6
5°	3476.2	3488.4	3496.6	3500.7	3513.0	3521.1	3508.9	3504.8	3525.2	3529.3	3533.4
7.5°	3427.2	3447.6	3468.0	3476.2	3492.5	3500.7	3496.6	3496.6	3521.1	3529.3	3529.3
10°	3394.5	3423.1	3447.6	3468.0	3488.4	3500.7	3500.7	3504.8	3533.4	3541.6	3549.7
12.5°	3386.3	3423.1	3455.8	3484.4	3500.7	3521.1	3525.2	3537.5	3566.1	3578.3	3578.3
15°	3365.9	3414.9	3455.8	3492.5	3517.0	3541.6	3549.7	3574.2	3606.9	3615.1	3623.2
17.5°	3329.1	3378.2	3427.2	3472.1	3504.8	3525.2	3549.7	3574.2	3615.1	3627.3	3631.4
20°	3263.8	3321.0	3370.0	3414.9	3447.6	3476.2	3500.7	3529.3	3566.1	3582.4	3586.5
22.5°	3165.7	3222.9	3272.0	3321.0	3353.6	3378.2	3402.7	3435.3	3472.1	3488.4	3488.4
25°	3047.3	3100.4	3153.5	3190.3	3222.9	3251.5	3263.8	3300.5	3337.3	3357.7	3357.7
27.5°	2896.1	2945.2	2994.2	3035.0	3055.5	3080.0	3100.4	3133.1	3161.7	3178.0	3194.3
30°	2704.2	2753.2	2798.1	2839.0	2863.5	2888.0	2908.4	2932.9	2961.5	2981.9	2986.0
32.5°	2495.8	2536.7	2581.6	2622.5	2647.0	2655.1	2675.6	2700.1	2724.6	2740.9	2745.0
35°	2267.1	2295.7	2324.3	2361.0	2385.5	2385.5	2406.0	2422.3	2442.7	2479.5	2471.3
37.5°	1997.5	2038.3	2058.8	2071.0	2087.3	2103.7	2107.8	2128.2	2152.7	2160.9	2173.1
40°	1744.2	1756.5	1768.7	1768.7	1785.1	1785.1	1785.1	1789.2	1813.7	1817.8	1834.1
42.5°	1491.0	1491.0	1478.7	1466.5	1470.5	1466.5	1446.0	1446.0	1458.3	1474.6	1474.6
45°	1254.0	1225.5	1188.7	1160.1	1139.7	1131.5	1107.0	1107.0	1102.9	1107.0	1123.3
47.5°	1053.9	1004.9	943.6	886.4	866.0	849.6	812.9	796.5	788.4	792.5	800.6
50°	886.4	833.3	763.9	694.4	657.7	637.2	592.3	563.7	559.6	551.5	567.8
52.5°	763.9	698.5	625.0	543.3	506.5	473.8	424.8	400.3	384.0	384.0	388.1
55°	657.7	588.2	506.5	424.8	388.1	363.6	314.5	281.9	265.5	261.4	273.7
57.5°	567.8	502.4	420.7	339.0	302.3	273.7	224.7	196.1	183.8	175.6	179.7
60°	498.3	433.0	351.3	273.7	241.0	208.3	167.5	134.8	118.5	118.5	122.5
62.5°	433.0	371.7	298.2	224.7	196.1	167.5	122.5	94.0	81.7	77.6	81.7
65°	367.6	310.4	249.2	187.9	159.3	134.8	98.0	73.5	57.2	53.1	57.2
67.5°	298.2	253.3	200.2	151.1	126.6	106.2	73.5	53.1	40.8	36.8	40.8
70°	232.8	192.0	151.1	110.3	94.0	77.6	53.1	40.8	28.6	24.5	28.6
72.5°	167.5	138.9	106.2	77.6	65.4	53.1	36.8	28.6	20.4	16.3	20.4
75°	114.4	94.0	69.4	49.0	40.8	36.8	24.5	16.3	12.3	12.3	12.3
77.5°	73.5	57.2	44.9	32.7	24.5	20.4	12.3	8.2	8.2	8.2	8.2
80°	40.8	32.7	24.5	16.3	12.3	12.3	8.2	8.2	4.1	4.1	4.1
82.5°	24.5	16.3	12.3	8.2	8.2	4.1	4.1	4.1	4.1	4.1	4.1
85°	12.3	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	4.1	4.1	4.1	4.1	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4
2.5°	3525.2	3529.3	3517.0	3533.4	3521.1	3537.5	3537.5	3521.1	3525.2	3517.0	3533.4
5°	3517.0	3517.0	3508.9	3521.1	3504.8	3521.1	3517.0	3488.4	3496.6	3480.3	3496.6
7.5°	3517.0	3508.9	3496.6	3508.9	3488.4	3500.7	3484.4	3455.8	3447.6	3427.2	3427.2
10°	3529.3	3517.0	3500.7	3504.8	3484.4	3488.4	3463.9	3423.1	3410.8	3386.3	3378.2
12.5°	3557.9	3545.6	3521.1	3529.3	3500.7	3500.7	3468.0	3419.0	3394.5	3361.8	3353.6
15°	3598.7	3578.3	3549.7	3553.8	3525.2	3508.9	3468.0	3410.8	3378.2	3333.2	3321.0
17.5°	3606.9	3586.5	3549.7	3549.7	3513.0	3492.5	3443.5	3378.2	3337.3	3292.4	3267.9
20°	3562.0	3541.6	3500.7	3496.6	3463.9	3435.3	3382.2	3316.9	3276.0	3227.0	3206.6
22.5°	3468.0	3443.5	3406.8	3402.7	3370.0	3353.6	3296.5	3231.1	3190.3	3141.2	3124.9
25°	3329.1	3316.9	3280.1	3276.0	3247.4	3227.0	3178.0	3116.7	3080.0	3030.9	3014.6
27.5°	3165.7	3153.5	3116.7	3116.7	3084.0	3071.8	3026.9	2969.7	2941.1	2896.1	2875.7
30°	2969.7	2953.3	2932.9	2928.8	2900.2	2888.0	2847.1	2794.0	2765.4	2728.7	2720.5
32.5°	2736.8	2724.6	2712.3	2708.2	2679.7	2667.4	2638.8	2585.7	2561.2	2528.5	2516.3
35°	2467.2	2459.1	2446.8	2442.7	2430.5	2418.2	2389.6	2348.8	2336.5	2312.0	2299.8
37.5°	2156.8	2165.0	2156.8	2156.8	2144.5	2148.6	2124.1	2099.6	2087.3	2071.0	2062.8
40°	1821.8	1838.2	1850.4	1850.4	1846.3	1862.7	1858.6	1838.2	1834.1	1825.9	1821.8
42.5°	1482.8	1491.0	1515.5	1531.8	1527.7	1568.6	1572.7	1589.0	1601.3	1593.1	1597.2
45°	1127.4	1151.9	1184.6	1200.9	1221.4	1274.5	1303.1	1335.7	1364.3	1380.7	1376.6
47.5°	812.9	841.5	878.2	902.7	939.5	1004.9	1078.4	1119.2	1160.1	1180.5	1200.9
50°	588.2	616.8	661.7	698.5	723.0	812.9	890.5	943.6	988.5	1017.1	1037.5
52.5°	412.6	445.2	494.3	526.9	563.7	649.5	739.4	800.6	849.6	886.4	906.8
55°	285.9	322.7	367.6	400.3	441.2	531.0	616.8	682.2	735.3	767.9	792.5
57.5°	200.2	232.8	277.8	306.4	347.2	433.0	518.8	584.1	637.2	669.9	698.5
60°	134.8	167.5	212.4	241.0	273.7	359.5	437.1	506.5	555.5	588.2	616.8
62.5°	94.0	122.5	167.5	196.1	224.7	298.2	371.7	433.0	482.0	518.8	543.3
65°	73.5	98.0	134.8	159.3	187.9	249.2	310.4	363.6	412.6	449.3	465.7
67.5°	53.1	77.6	106.2	126.6	147.1	200.2	253.3	294.1	339.0	367.6	388.1
70°	36.8	53.1	77.6	94.0	110.3	151.1	192.0	228.8	261.4	281.9	298.2
72.5°	28.6	36.8	53.1	65.4	77.6	106.2	138.9	167.5	192.0	208.3	224.7
75°	16.3	24.5	36.8	44.9	53.1	73.5	94.0	114.4	130.7	143.0	151.1
77.5°	8.2	12.3	20.4	24.5	32.7	44.9	61.3	73.5	85.8	94.0	102.1
80°	8.2	8.2	12.3	12.3	16.3	24.5	32.7	40.8	49.0	57.2	61.3
82.5°	4.1	4.1	8.2	8.2	8.2	12.3	16.3	24.5	28.6	32.7	36.8
85°	4.1	4.1	4.1	4.1	4.1	8.2	8.2	12.3	16.3	20.4	20.4
87.5°	0.0	0.0	4.1	4.1	4.1	4.1	4.1	8.2	8.2	8.2	12.3
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: P252643

CATALOG NUMBER: LD6B70D010TE EU6B60709035 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4
2.5°	3521.1	3529.3	3525.2	3533.4	3521.1	3517.0	3525.2	3513.0
5°	3476.2	3480.3	3476.2	3476.2	3468.0	3459.9	3468.0	3455.8
7.5°	3406.8	3406.8	3394.5	3394.5	3378.2	3370.0	3370.0	3365.9
10°	3349.6	3337.3	3325.1	3329.1	3304.6	3296.5	3292.4	3288.3
12.5°	3321.0	3312.8	3292.4	3292.4	3267.9	3259.7	3255.6	3251.5
15°	3288.3	3272.0	3255.6	3251.5	3231.1	3222.9	3218.8	3210.7
17.5°	3231.1	3218.8	3198.4	3198.4	3178.0	3173.9	3165.7	3161.7
20°	3169.8	3153.5	3137.2	3137.2	3112.6	3112.6	3100.4	3104.5
22.5°	3084.0	3071.8	3055.5	3055.5	3035.0	3030.9	3018.7	3014.6
25°	2981.9	2965.6	2953.3	2949.2	2932.9	2924.7	2920.7	2912.5
27.5°	2847.1	2834.9	2822.6	2814.5	2794.0	2789.9	2777.7	2781.8
30°	2679.7	2671.5	2667.4	2659.2	2634.7	2626.5	2626.5	2614.3
32.5°	2495.8	2483.6	2475.4	2463.2	2442.7	2438.6	2426.4	2430.5
35°	2271.2	2254.8	2242.6	2246.7	2222.1	2218.1	2209.9	2214.0
37.5°	2038.3	2022.0	2005.7	2001.6	1981.1	1981.1	1968.9	1968.9
40°	1797.3	1781.0	1772.8	1772.8	1748.3	1752.4	1740.1	1736.1
42.5°	1580.8	1564.5	1560.4	1556.3	1544.1	1540.0	1527.7	1531.8
45°	1376.6	1372.5	1372.5	1364.3	1352.1	1348.0	1352.1	1352.1
47.5°	1196.9	1200.9	1196.9	1196.9	1188.7	1196.9	1188.7	1192.8
50°	1045.7	1053.9	1053.9	1053.9	1049.8	1053.9	1053.9	1058.0
52.5°	919.1	931.3	927.3	931.3	927.3	935.4	931.3	935.4
55°	808.8	817.0	821.1	825.1	825.1	825.1	825.1	825.1
57.5°	706.7	718.9	723.0	727.1	727.1	735.3	727.1	727.1
60°	625.0	637.2	641.3	645.4	645.4	649.5	641.3	645.4
62.5°	551.5	563.7	563.7	567.8	567.8	567.8	559.6	563.7
65°	477.9	482.0	486.1	486.1	482.0	482.0	477.9	482.0
67.5°	396.2	400.3	396.2	396.2	392.1	392.1	384.0	388.1
70°	306.4	306.4	310.4	306.4	302.3	306.4	302.3	298.2
72.5°	228.8	228.8	228.8	224.7	224.7	220.6	224.7	224.7
75°	155.2	155.2	159.3	159.3	159.3	159.3	155.2	155.2
77.5°	102.1	102.1	102.1	102.1	106.2	102.1	102.1	102.1
80°	65.4	65.4	69.4	69.4	65.4	65.4	65.4	65.4
82.5°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
85°	24.5	24.5	24.5	24.5	20.4	20.4	20.4	20.4
87.5°	12.3	12.3	12.3	12.3	12.3	12.3	8.2	8.2
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)