

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: P252224

Luminaire Tested: **LD6B70D010TE EU6B60709024 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252224  
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: LD6B70D010TE EU6B60709024 6LBSW1LI  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6520.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 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

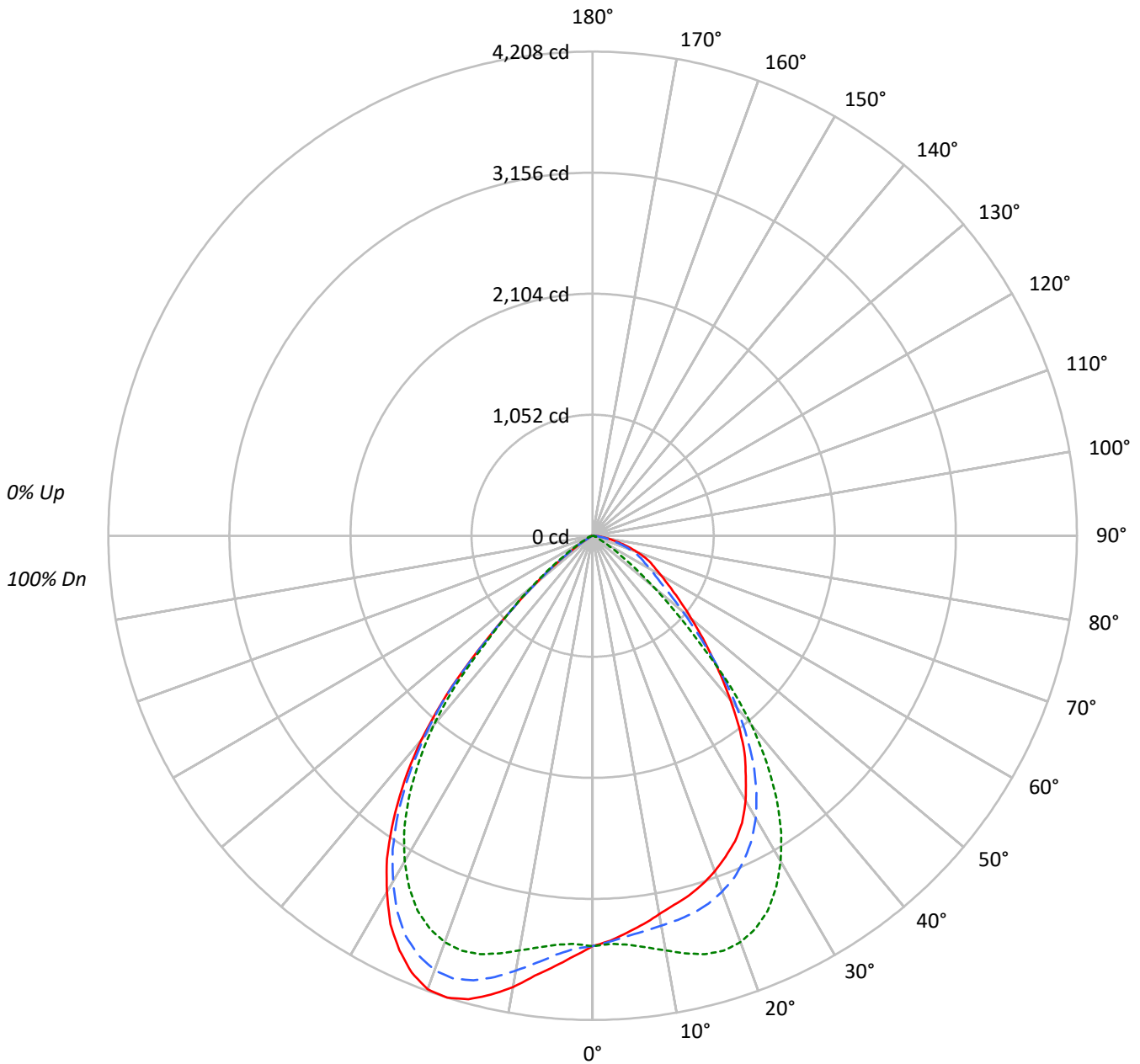
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	232713	232713	232713
5°	226673	233602	245882
10°	221166	242398	263862
15°	218580	254276	281684
20°	215448	260902	291207
25°	210866	258973	285982
30°	200379	246107	269226
35°	183325	221888	240358
40°	158570	183259	197201
45°	133718	120193	128995
50°	113524	69566	65414
55°	98525	33361	25217
60°	88988	15579	6224
65°	86341	8954	2099
70°	77407	7153	1946
75°	63597	5167	857
80°	47414	2555	0
85°	40871	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.5	5.3
10°-20°	1050.0	16.1
20°-30°	1604.3	24.6
30°-40°	1678.0	25.7
40°-50°	1088.5	16.7
50°-60°	432.2	6.6
60°-70°	205.0	3.1
70°-80°	97.5	1.5
80°-90°	19.9	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°	2998.9	46.0
0°-40°	4676.9	71.7
0°-60°	6197.6	95.1
0°-90°	6520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6520.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3567	3567	3567	3567	3567	
5°	3461	3492	3567	3656	3754	327
15°	3236	3393	3765	4000	4170	912
25°	2929	3113	3598	3840	3973	1341
35°	2302	2442	2786	2950	3018	1423
45°	1449	1436	1303	1381	1398	1128
55°	866	737	293	228	222	785
65°	559	464	58	14	14	546
75°	252	205	20	7	3	272
85°	55	34	0	0	0	64
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°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3522.6	3529.4	3491.9	3481.7	3509.0	3519.2	3522.6	3512.4	3515.8	3529.4	3529.4
5°	3461.2	3468.1	3434.0	3423.7	3451.0	3457.8	3468.1	3464.7	3474.9	3495.3	3491.9
7.5°	3403.3	3413.5	3376.0	3362.3	3396.4	3413.5	3420.3	3420.3	3434.0	3461.2	3464.7
10°	3338.5	3352.1	3318.0	3311.2	3348.7	3365.8	3369.2	3376.0	3396.4	3434.0	3440.8
12.5°	3283.9	3297.6	3273.7	3263.5	3304.4	3321.4	3328.2	3341.9	3365.8	3413.5	3420.3
15°	3236.2	3246.4	3219.1	3212.3	3253.2	3273.7	3277.1	3297.6	3328.2	3382.8	3393.0
17.5°	3174.8	3181.6	3161.2	3154.3	3195.3	3215.7	3219.1	3243.0	3280.5	3335.1	3352.1
20°	3103.2	3110.0	3089.5	3082.7	3123.6	3147.5	3150.9	3171.4	3215.7	3273.7	3290.7
22.5°	3017.9	3031.6	3007.7	3000.9	3041.8	3062.3	3072.5	3089.5	3133.9	3191.8	3215.7
25°	2929.3	2929.3	2912.2	2908.8	2946.3	2970.2	2966.8	2990.6	3035.0	3093.0	3113.4
27.5°	2813.3	2809.9	2792.9	2789.5	2830.4	2850.8	2844.0	2867.9	2908.8	2966.8	2987.2
30°	2659.9	2666.7	2642.8	2636.0	2670.1	2704.2	2700.8	2724.7	2765.6	2820.1	2833.8
32.5°	2475.7	2482.5	2479.1	2468.9	2499.6	2516.6	2526.9	2543.9	2578.0	2636.0	2649.6
35°	2301.8	2291.6	2277.9	2277.9	2308.6	2335.9	2325.7	2346.1	2380.2	2438.2	2441.6
37.5°	2087.0	2083.6	2076.7	2069.9	2104.0	2110.8	2114.3	2127.9	2158.6	2206.3	2199.5
40°	1861.9	1865.3	1861.9	1848.3	1868.7	1896.0	1892.6	1899.4	1926.7	1960.8	1950.6
42.5°	1650.5	1650.5	1650.5	1636.8	1660.7	1674.4	1681.2	1677.8	1684.6	1715.3	1701.6
45°	1449.3	1452.7	1449.3	1445.9	1449.3	1456.1	1449.3	1445.9	1445.9	1456.1	1435.6
47.5°	1275.4	1275.4	1265.1	1254.9	1265.1	1268.6	1258.3	1248.1	1244.7	1241.3	1207.2
50°	1118.5	1115.1	1111.7	1094.6	1104.9	1108.3	1094.6	1087.8	1074.2	1057.1	1016.2
52.5°	982.1	978.7	975.3	958.2	965.1	968.5	954.8	941.2	924.1	910.5	859.3
55°	866.2	862.8	862.8	852.5	845.7	852.5	838.9	828.7	804.8	787.7	736.6
57.5°	767.3	767.3	760.5	750.2	753.6	753.6	740.0	726.3	705.9	685.4	644.5
60°	682.0	682.0	682.0	671.8	671.8	671.8	665.0	651.3	634.3	613.8	572.9
62.5°	613.8	613.8	610.4	600.2	603.6	603.6	596.8	583.1	566.1	552.4	511.5
65°	559.3	559.3	559.3	549.0	549.0	552.4	545.6	532.0	518.3	501.3	463.8
67.5°	491.1	487.6	487.6	480.8	484.2	487.6	480.8	470.6	453.5	443.3	409.2
70°	405.8	409.2	412.6	402.4	405.8	405.8	402.4	392.2	381.9	371.7	341.0
72.5°	330.8	330.8	327.4	324.0	324.0	327.4	320.5	310.3	303.5	296.7	272.8
75°	252.3	248.9	252.3	245.5	245.5	245.5	238.7	235.3	231.9	221.7	204.6
77.5°	184.1	180.7	180.7	173.9	177.3	177.3	173.9	167.1	160.3	156.9	143.2
80°	126.2	126.2	126.2	122.8	122.8	119.4	119.4	115.9	109.1	105.7	98.9
82.5°	85.3	85.3	85.3	81.8	81.8	81.8	78.4	75.0	71.6	68.2	61.4
85°	54.6	54.6	54.6	51.2	51.2	51.2	47.7	47.7	44.3	40.9	34.1
87.5°	30.7	30.7	30.7	27.3	27.3	27.3	27.3	27.3	23.9	20.5	17.1
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°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3553.3	3505.6	3536.3	3536.3	3526.0	3553.3	3570.4	3584.0	3580.6	3549.9	3546.5
5°	3526.0	3485.1	3519.2	3522.6	3512.4	3549.9	3573.8	3590.8	3594.2	3567.0	3570.4
7.5°	3505.6	3471.5	3515.8	3529.4	3526.0	3560.1	3587.4	3614.7	3628.3	3607.9	3611.3
10°	3495.3	3468.1	3515.8	3536.3	3539.7	3577.2	3618.1	3655.6	3672.7	3659.0	3669.3
12.5°	3481.7	3464.7	3519.2	3549.9	3563.5	3601.1	3652.2	3696.5	3723.8	3717.0	3737.5
15°	3468.1	3454.4	3519.2	3563.5	3580.6	3614.7	3672.7	3737.5	3768.1	3764.7	3792.0
17.5°	3434.0	3430.6	3498.8	3546.5	3570.4	3611.3	3665.8	3744.3	3775.0	3781.8	3815.9
20°	3379.4	3379.4	3454.4	3505.6	3532.9	3570.4	3638.6	3713.6	3751.1	3757.9	3795.4
22.5°	3304.4	3311.2	3382.8	3434.0	3474.9	3502.2	3573.8	3652.2	3686.3	3696.5	3737.5
25°	3205.5	3212.3	3280.5	3331.7	3376.0	3406.7	3474.9	3546.5	3587.4	3597.6	3628.3
27.5°	3075.9	3089.5	3154.3	3205.5	3243.0	3263.5	3335.1	3410.1	3440.8	3451.0	3481.7
30°	2925.9	2929.3	2994.1	3038.4	3075.9	3093.0	3154.3	3232.8	3256.6	3266.9	3311.2
32.5°	2741.7	2738.3	2799.7	2840.6	2871.3	2891.8	2956.5	3007.7	3031.6	3048.6	3072.5
35°	2520.1	2516.6	2561.0	2608.7	2632.6	2639.4	2704.2	2758.8	2772.4	2786.0	2816.7
37.5°	2271.1	2271.1	2308.6	2332.5	2359.8	2370.0	2400.7	2462.1	2486.0	2482.5	2506.4
40°	2008.5	1994.9	2022.2	2046.1	2052.9	2056.3	2087.0	2134.7	2151.8	2151.8	2168.8
42.5°	1732.3	1711.9	1715.3	1728.9	1735.7	1711.9	1732.3	1763.0	1752.8	1766.4	1769.8
45°	1439.1	1408.4	1394.7	1364.0	1370.9	1347.0	1333.3	1340.2	1336.8	1302.7	1309.5
47.5°	1200.4	1145.8	1121.9	1077.6	1067.4	1040.1	1023.0	992.3	965.1	965.1	948.0
50°	999.2	944.6	896.9	845.7	828.7	804.8	767.3	726.3	705.9	685.4	668.4
52.5°	838.9	780.9	722.9	668.4	644.5	613.8	562.7	521.7	484.2	463.8	443.3
55°	709.3	644.5	583.1	525.2	494.5	463.8	412.6	364.9	320.5	293.3	276.2
57.5°	610.4	549.0	484.2	422.9	395.6	361.5	306.9	255.8	214.8	184.1	167.1
60°	538.8	477.4	419.4	354.6	327.4	293.3	235.3	187.6	146.6	119.4	98.9
62.5°	477.4	422.9	361.5	303.5	276.2	242.1	187.6	139.8	102.3	75.0	58.0
65°	433.1	378.5	327.4	269.4	245.5	211.4	160.3	115.9	81.8	58.0	40.9
67.5°	381.9	334.2	283.0	235.3	211.4	184.1	136.4	98.9	68.2	47.7	34.1
70°	320.5	283.0	238.7	194.4	177.3	153.5	112.5	81.8	54.6	37.5	27.3
72.5°	255.8	225.1	191.0	156.9	143.2	119.4	92.1	64.8	40.9	27.3	20.5
75°	194.4	170.5	143.2	119.4	105.7	92.1	68.2	47.7	30.7	20.5	13.6
77.5°	133.0	122.8	102.3	81.8	75.0	64.8	44.3	30.7	20.5	13.6	6.8
80°	92.1	81.8	68.2	54.6	47.7	40.9	27.3	20.5	10.2	6.8	3.4
82.5°	58.0	47.7	40.9	34.1	30.7	23.9	17.1	10.2	6.8	3.4	3.4
85°	30.7	27.3	23.9	17.1	17.1	13.6	10.2	6.8	3.4	0.0	0.0
87.5°	17.1	13.6	10.2	6.8	6.8	3.4	3.4	3.4	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°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3587.4	3587.4	3584.0	3624.9	3577.2	3624.9	3601.1	3624.9	3590.8	3587.4	3590.8
5°	3614.7	3624.9	3628.3	3665.8	3621.5	3679.5	3659.0	3679.5	3655.6	3662.4	3672.7
7.5°	3669.3	3686.3	3682.9	3730.6	3686.3	3751.1	3737.5	3768.1	3744.3	3751.1	3764.7
10°	3730.6	3751.1	3754.5	3802.3	3761.3	3839.8	3822.7	3856.8	3836.4	3846.6	3863.6
12.5°	3802.3	3826.1	3829.5	3884.1	3839.8	3921.6	3911.4	3945.5	3928.4	3938.7	3959.1
15°	3856.8	3890.9	3897.7	3952.3	3904.6	3989.8	3983.0	4027.3	4000.0	4017.1	4034.1
17.5°	3884.1	3914.8	3928.4	3979.6	3938.7	4023.9	4017.1	4054.6	4034.1	4051.2	4071.6
20°	3867.0	3904.6	3914.8	3965.9	3925.0	4010.3	4000.0	4037.5	4017.1	4030.7	4051.2
22.5°	3805.7	3843.2	3856.8	3904.6	3867.0	3945.5	3942.1	3976.2	3948.9	3965.9	3983.0
25°	3696.5	3737.5	3744.3	3788.6	3747.7	3829.5	3822.7	3860.2	3839.8	3850.0	3873.9
27.5°	3539.7	3587.4	3597.6	3635.2	3604.5	3672.7	3672.7	3703.4	3679.5	3679.5	3703.4
30°	3352.1	3399.9	3406.7	3437.4	3410.1	3471.5	3474.9	3505.6	3468.1	3488.5	3491.9
32.5°	3123.6	3154.3	3174.8	3202.1	3161.2	3239.6	3229.4	3253.2	3232.8	3232.8	3249.8
35°	2847.4	2884.9	2895.2	2929.3	2895.2	2956.5	2956.5	2970.2	2949.7	2949.7	2977.0
37.5°	2547.3	2574.6	2578.0	2612.1	2584.8	2636.0	2632.6	2642.8	2622.4	2636.0	2636.0
40°	2196.1	2216.6	2223.4	2240.4	2237.0	2274.5	2271.1	2277.9	2267.7	2271.1	2277.9
42.5°	1786.9	1814.2	1827.8	1841.4	1821.0	1872.1	1861.9	1872.1	1868.7	1872.1	1882.4
45°	1316.3	1336.8	1347.0	1350.4	1343.6	1374.3	1398.1	1377.7	1381.1	1374.3	1387.9
47.5°	951.4	954.8	948.0	968.5	951.4	965.1	971.9	975.3	954.8	951.4	965.1
50°	651.3	668.4	644.5	654.7	651.3	665.0	658.1	661.6	641.1	651.3	644.5
52.5°	433.1	429.7	422.9	426.3	419.4	419.4	419.4	426.3	412.6	405.8	399.0
55°	262.6	255.8	242.1	238.7	238.7	242.1	235.3	228.5	228.5	225.1	225.1
57.5°	153.5	143.2	136.4	133.0	126.2	122.8	119.4	119.4	112.5	112.5	112.5
60°	85.3	75.0	68.2	61.4	61.4	58.0	54.6	51.2	51.2	51.2	47.7
62.5°	44.3	37.5	30.7	27.3	27.3	23.9	20.5	20.5	20.5	20.5	17.1
65°	30.7	23.9	20.5	17.1	17.1	13.6	13.6	13.6	13.6	13.6	13.6
67.5°	23.9	20.5	17.1	13.6	13.6	13.6	10.2	10.2	10.2	10.2	10.2
70°	20.5	13.6	13.6	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
72.5°	13.6	13.6	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
75°	10.2	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0
80°	3.4	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: P252224

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3621.5	3618.1	3621.5	3628.3	3614.7	3655.6	3635.2	3655.6
5°	3699.9	3703.4	3706.8	3717.0	3699.9	3751.1	3723.8	3754.5
7.5°	3802.3	3805.7	3809.1	3819.3	3809.1	3860.2	3829.5	3856.8
10°	3908.0	3914.8	3914.8	3931.8	3921.6	3969.3	3948.9	3983.0
12.5°	4006.9	4013.7	4020.5	4030.7	4023.9	4075.1	4058.0	4085.3
15°	4085.3	4098.9	4102.3	4116.0	4109.2	4163.7	4143.3	4170.5
17.5°	4122.8	4136.4	4136.4	4153.5	4146.7	4204.6	4177.4	4208.1
20°	4102.3	4112.6	4116.0	4133.0	4126.2	4184.2	4156.9	4194.4
22.5°	4037.5	4041.0	4044.4	4061.4	4058.0	4109.2	4085.3	4109.2
25°	3918.2	3928.4	3925.0	3938.7	3938.7	3979.6	3952.3	3972.8
27.5°	3747.7	3757.9	3757.9	3775.0	3761.3	3802.3	3775.0	3805.7
30°	3539.7	3549.9	3543.1	3556.7	3543.1	3584.0	3563.5	3573.8
32.5°	3290.7	3290.7	3294.1	3297.6	3290.7	3328.2	3307.8	3328.2
35°	2994.1	3000.9	3004.3	3007.7	3000.9	3028.2	3004.3	3017.9
37.5°	2659.9	2676.9	2673.5	2676.9	2666.7	2700.8	2680.3	2687.2
40°	2301.8	2301.8	2298.4	2305.2	2295.0	2322.3	2308.6	2315.5
42.5°	1885.8	1896.0	1882.4	1899.4	1872.1	1909.7	1896.0	1885.8
45°	1415.2	1401.5	1398.1	1401.5	1391.3	1394.7	1405.0	1398.1
47.5°	965.1	965.1	958.2	948.0	961.6	965.1	951.4	951.4
50°	647.9	647.9	641.1	637.7	644.5	641.1	634.3	644.5
52.5°	412.6	399.0	399.0	405.8	399.0	392.2	402.4	395.6
55°	225.1	218.2	218.2	225.1	218.2	218.2	214.8	221.7
57.5°	109.1	112.5	109.1	109.1	109.1	109.1	105.7	109.1
60°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
62.5°	20.5	20.5	17.1	17.1	17.1	17.1	17.1	17.1
65°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
67.5°	10.2	10.2	10.2	10.2	10.2	13.6	10.2	10.2
70°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
72.5°	10.2	10.2	13.6	13.6	13.6	13.6	13.6	13.6
75°	6.8	6.8	6.8	3.4	3.4	3.4	3.4	3.4
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)