

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: P252428

Luminaire Tested: **LD6B70D010TE EU6B60708030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B70D010TE EU6B60708030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6409.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

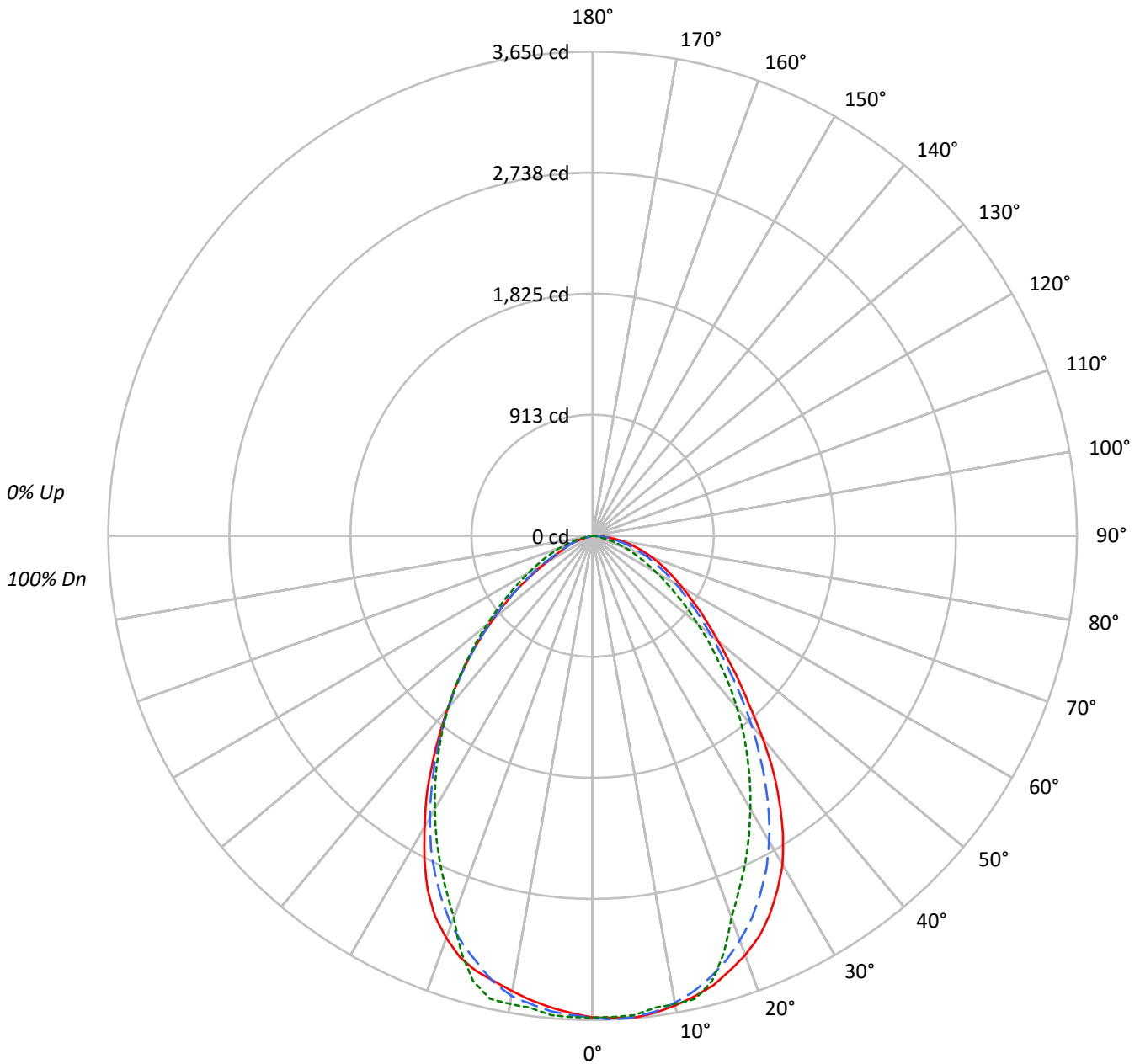
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	236915	236915	236915
5°	238743	237512	233805
10°	238072	237443	230884
15°	236992	234763	229346
20°	233457	212497	223960
25°	227120	195886	211838
30°	215657	179060	190782
35°	195694	161885	167898
40°	169897	144194	144594
45°	144901	124012	122702
50°	125409	104825	99081
55°	112117	87435	76709
60°	102154	72613	51697
65°	95371	59696	38593
70°	90855	48584	32389
75°	85603	34483	10688
80°	81491	17733	3532
85°	67070	10555	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.9	5.4
10°-20°	959.1	15.0
20°-30°	1323.9	20.7
30°-40°	1347.2	21.0
40°-50°	1082.7	16.9
50°-60°	719.9	11.2
60°-70°	410.2	6.4
70°-80°	184.3	2.9
80°-90°	38.8	0.6
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°	2625.9	41.0
0°-40°	3973.1	62.0
0°-60°	5775.7	90.1
0°-90°	6409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6409.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3631	3631	3631	3631	3631	
5°	3646	3641	3627	3598	3570	346
15°	3509	3443	3476	3339	3396	987
25°	3155	2985	2721	2811	2943	1446
35°	2457	2268	2033	2070	2108	1527
45°	1570	1476	1344	1330	1330	1218
55°	986	920	769	684	674	886
65°	618	552	387	250	250	615
75°	340	283	137	57	42	363
85°	90	61	14	5	0	106
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°	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4
2.5°	3636.1	3655.0	3650.3	3645.5	3650.3	3645.5	3636.1	3636.1	3626.7	3626.7	3650.3
5°	3645.5	3655.0	3650.3	3645.5	3645.5	3650.3	3631.4	3631.4	3622.0	3617.2	3640.8
7.5°	3626.7	3640.8	3631.4	3631.4	3626.7	3631.4	3612.5	3612.5	3598.4	3593.7	3617.2
10°	3593.7	3612.5	3603.1	3603.1	3603.1	3593.7	3584.2	3579.5	3565.4	3560.7	3574.8
12.5°	3555.9	3570.1	3565.4	3555.9	3555.9	3555.9	3537.1	3532.4	3513.5	3504.1	3518.2
15°	3508.8	3518.2	3513.5	3508.8	3499.3	3499.3	3480.5	3471.0	3452.2	3433.3	3442.7
17.5°	3438.0	3452.2	3442.7	3438.0	3423.9	3423.9	3405.0	3395.6	3367.3	3348.4	3353.1
20°	3362.6	3367.3	3362.6	3353.1	3339.0	3334.3	3315.4	3296.6	3273.0	3249.4	3244.7
22.5°	3273.0	3277.7	3263.5	3254.1	3240.0	3235.2	3211.7	3197.5	3159.8	3131.5	3126.8
25°	3155.1	3159.8	3159.8	3136.2	3126.8	3117.3	3093.8	3070.2	3037.2	2999.4	2985.3
27.5°	3013.6	3027.7	3018.3	2994.7	2975.9	2971.1	2947.6	2928.7	2886.2	2853.2	2834.4
30°	2862.7	2858.0	2853.2	2839.1	2810.8	2806.1	2782.5	2758.9	2725.9	2683.5	2659.9
32.5°	2669.3	2669.3	2664.6	2650.4	2622.1	2612.7	2593.9	2565.6	2527.8	2494.8	2471.2
35°	2457.1	2461.8	2457.1	2428.8	2409.9	2400.5	2391.1	2358.0	2325.0	2287.3	2268.4
37.5°	2235.4	2221.3	2226.0	2202.4	2178.8	2188.3	2160.0	2145.8	2108.1	2079.8	2060.9
40°	1994.9	2004.3	1985.5	1976.0	1961.9	1947.7	1947.7	1924.2	1905.3	1872.3	1862.9
42.5°	1759.1	1773.3	1768.5	1759.1	1740.2	1745.0	1721.4	1711.9	1688.4	1674.2	1660.1
45°	1570.5	1570.5	1570.5	1561.0	1556.3	1546.9	1532.7	1518.6	1504.4	1485.6	1476.1
47.5°	1386.5	1386.5	1391.2	1381.8	1372.4	1367.7	1358.2	1358.2	1334.7	1315.8	1306.4
50°	1235.6	1235.6	1235.6	1226.2	1216.8	1216.8	1207.3	1197.9	1183.7	1169.6	1160.2
52.5°	1098.9	1098.9	1098.9	1089.4	1084.7	1080.0	1075.3	1070.6	1051.7	1042.3	1032.8
55°	985.7	980.9	980.9	976.2	966.8	966.8	962.1	952.7	938.5	924.4	919.6
57.5°	872.5	877.2	872.5	872.5	863.0	863.0	853.6	848.9	834.7	825.3	815.9
60°	782.9	782.9	782.9	778.2	768.7	773.4	764.0	759.3	745.1	731.0	721.6
62.5°	693.3	698.0	698.0	693.3	683.8	683.8	679.1	674.4	660.3	646.1	632.0
65°	617.8	617.8	617.8	613.1	608.4	608.4	603.7	598.9	584.8	565.9	551.8
67.5°	547.1	542.4	542.4	542.4	537.6	532.9	528.2	523.5	509.3	495.2	476.3
70°	476.3	476.3	476.3	471.6	462.2	466.9	462.2	457.5	443.3	429.2	415.0
72.5°	410.3	410.3	405.6	400.9	400.9	396.2	396.2	391.4	377.3	358.4	344.3
75°	339.6	339.6	339.6	339.6	330.1	334.8	325.4	320.7	311.3	297.1	283.0
77.5°	278.2	278.2	278.2	273.5	268.8	268.8	264.1	259.4	245.2	235.8	216.9
80°	216.9	216.9	216.9	216.9	212.2	207.5	202.8	198.1	188.6	174.5	160.3
82.5°	160.3	160.3	155.6	155.6	155.6	150.9	146.2	141.5	132.1	122.6	113.2
85°	89.6	89.6	89.6	89.6	89.6	84.9	84.9	84.9	75.5	75.5	61.3
87.5°	33.0	33.0	28.3	28.3	28.3	28.3	28.3	28.3	23.6	23.6	18.9
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°	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4
2.5°	3631.4	3626.7	3645.5	3645.5	3617.2	3631.4	3636.1	3626.7	3626.7	3631.4	3617.2
5°	3622.0	3612.5	3631.4	3636.1	3607.8	3622.0	3626.7	3617.2	3622.0	3626.7	3607.8
7.5°	3588.9	3588.9	3603.1	3607.8	3579.5	3593.7	3593.7	3584.2	3588.9	3588.9	3574.8
10°	3555.9	3541.8	3555.9	3555.9	3532.4	3537.1	3546.5	3541.8	3560.7	3584.2	3584.2
12.5°	3494.6	3480.5	3504.1	3504.1	3489.9	3508.8	3532.4	3546.5	3565.4	3574.8	3546.5
15°	3419.2	3423.9	3466.3	3499.3	3485.2	3513.5	3537.1	3527.6	3504.1	3475.8	3433.3
17.5°	3320.1	3306.0	3343.7	3362.6	3343.7	3353.1	3372.0	3353.1	3315.4	3291.8	3235.2
20°	3206.9	3169.2	3169.2	3159.8	3126.8	3126.8	3122.1	3089.0	3074.9	3060.7	3037.2
22.5°	3079.6	3037.2	3023.0	2994.7	2966.4	2961.7	2947.6	2914.5	2895.7	2886.2	2858.0
25°	2933.4	2895.7	2872.1	2843.8	2801.4	2791.9	2777.8	2744.8	2735.3	2721.2	2697.6
27.5°	2782.5	2735.3	2702.3	2674.0	2636.3	2631.6	2603.3	2579.7	2560.8	2551.4	2532.5
30°	2608.0	2556.1	2532.5	2494.8	2466.5	2457.1	2433.5	2400.5	2386.3	2376.9	2362.8
32.5°	2414.6	2372.2	2348.6	2315.6	2277.9	2282.6	2254.3	2226.0	2216.6	2207.1	2193.0
35°	2226.0	2183.6	2155.3	2127.0	2103.4	2093.9	2075.1	2051.5	2037.4	2032.6	2023.2
37.5°	2018.5	1985.5	1961.9	1933.6	1914.7	1905.3	1895.9	1872.3	1862.9	1862.9	1844.0
40°	1815.7	1787.4	1768.5	1754.4	1730.8	1726.1	1716.7	1702.5	1697.8	1693.1	1678.9
42.5°	1631.8	1594.0	1579.9	1570.5	1556.3	1546.9	1542.2	1532.7	1528.0	1523.3	1509.2
45°	1457.3	1424.3	1410.1	1400.7	1386.5	1381.8	1377.1	1363.0	1353.5	1344.1	1339.4
47.5°	1287.5	1263.9	1259.2	1235.6	1226.2	1216.8	1207.3	1197.9	1193.2	1188.5	1169.6
50°	1141.3	1127.1	1103.6	1089.4	1080.0	1075.3	1056.4	1042.3	1037.5	1032.8	1018.7
52.5°	1009.2	990.4	976.2	952.7	947.9	938.5	929.1	910.2	900.8	896.1	881.9
55°	891.3	877.2	858.3	839.5	825.3	820.6	806.5	787.6	778.2	768.7	759.3
57.5°	792.3	768.7	749.9	731.0	721.6	707.4	693.3	683.8	669.7	655.5	641.4
60°	698.0	679.1	655.5	636.7	627.2	617.8	598.9	584.8	570.6	556.5	542.4
62.5°	608.4	589.5	565.9	547.1	537.6	528.2	509.3	495.2	481.0	466.9	448.0
65°	528.2	509.3	490.5	471.6	462.2	452.7	433.9	415.0	400.9	386.7	367.9
67.5°	462.2	438.6	419.7	400.9	391.4	382.0	363.1	349.0	330.1	316.0	297.1
70°	391.4	372.6	358.4	339.6	330.1	320.7	301.8	283.0	268.8	254.7	235.8
72.5°	330.1	306.5	292.4	273.5	264.1	259.4	240.5	226.4	212.2	193.4	179.2
75°	264.1	245.2	226.4	212.2	202.8	198.1	179.2	165.1	150.9	136.8	122.6
77.5°	202.8	188.6	169.8	155.6	146.2	141.5	122.6	108.5	94.3	84.9	70.7
80°	150.9	132.1	122.6	108.5	103.8	94.3	84.9	70.7	61.3	47.2	37.7
82.5°	103.8	89.6	80.2	70.7	66.0	61.3	51.9	42.4	33.0	28.3	23.6
85°	56.6	47.2	42.4	37.7	33.0	33.0	28.3	23.6	18.9	14.1	9.4
87.5°	18.9	14.1	14.1	14.1	14.1	9.4	9.4	9.4	4.7	4.7	4.7
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°	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4
2.5°	3626.7	3626.7	3626.7	3622.0	3622.0	3622.0	3617.2	3636.1	3617.2	3612.5	3626.7
5°	3622.0	3612.5	3612.5	3612.5	3612.5	3607.8	3603.1	3612.5	3598.4	3593.7	3593.7
7.5°	3593.7	3588.9	3588.9	3584.2	3579.5	3574.8	3570.1	3574.8	3560.7	3555.9	3555.9
10°	3598.4	3588.9	3588.9	3574.8	3565.4	3551.2	3537.1	3541.8	3522.9	3508.8	3508.8
12.5°	3541.8	3518.2	3504.1	3489.9	3480.5	3475.8	3456.9	3466.3	3447.5	3442.7	3442.7
15°	3414.5	3386.2	3362.6	3353.1	3353.1	3343.7	3329.6	3348.4	3339.0	3343.7	3367.3
17.5°	3216.4	3202.2	3188.1	3183.4	3188.1	3197.5	3206.9	3235.2	3235.2	3249.4	3273.0
20°	3041.9	3032.4	3041.9	3041.9	3046.6	3065.5	3084.3	3107.9	3117.3	3131.5	3164.5
22.5°	2872.1	2872.1	2881.5	2895.7	2891.0	2924.0	2928.7	2971.1	2971.1	2999.4	3027.7
25°	2707.0	2707.0	2716.5	2721.2	2730.6	2749.5	2768.3	2801.4	2810.8	2839.1	2862.7
27.5°	2546.7	2542.0	2542.0	2546.7	2556.1	2579.7	2589.1	2626.9	2641.0	2659.9	2683.5
30°	2367.5	2362.8	2372.2	2381.6	2376.9	2400.5	2414.6	2442.9	2452.4	2471.2	2490.1
32.5°	2197.7	2197.7	2197.7	2207.1	2207.1	2226.0	2226.0	2259.0	2259.0	2273.2	2292.0
35°	2023.2	2023.2	2027.9	2032.6	2037.4	2042.1	2046.8	2065.6	2070.4	2075.1	2084.5
37.5°	1858.1	1853.4	1858.1	1858.1	1848.7	1867.6	1867.6	1886.4	1872.3	1886.4	1891.2
40°	1688.4	1688.4	1683.6	1683.6	1683.6	1693.1	1683.6	1697.8	1688.4	1697.8	1693.1
42.5°	1513.9	1513.9	1504.4	1513.9	1509.2	1509.2	1509.2	1518.6	1504.4	1513.9	1518.6
45°	1339.4	1334.7	1334.7	1329.9	1329.9	1329.9	1334.7	1334.7	1329.9	1339.4	1339.4
47.5°	1169.6	1164.9	1164.9	1164.9	1164.9	1169.6	1155.4	1164.9	1155.4	1155.4	1155.4
50°	1023.4	1018.7	1014.0	1009.2	1004.5	1004.5	999.8	999.8	990.4	985.7	980.9
52.5°	881.9	877.2	867.8	867.8	863.0	858.3	844.2	844.2	830.0	825.3	825.3
55°	754.6	740.4	735.7	726.3	726.3	716.8	707.4	698.0	683.8	674.4	674.4
57.5°	636.7	622.5	613.1	608.4	603.7	594.2	575.4	570.6	551.8	547.1	542.4
60°	532.9	518.8	504.6	495.2	490.5	476.3	457.5	448.0	438.6	424.4	410.3
62.5°	433.9	419.7	400.9	396.2	386.7	372.6	358.4	344.3	334.8	320.7	311.3
65°	349.0	334.8	320.7	311.3	301.8	287.7	273.5	259.4	250.0	245.2	240.5
67.5°	283.0	264.1	250.0	245.2	235.8	226.4	212.2	207.5	198.1	198.1	198.1
70°	221.7	207.5	193.4	188.6	183.9	174.5	165.1	165.1	165.1	165.1	165.1
72.5°	165.1	155.6	141.5	136.8	132.1	127.3	117.9	122.6	117.9	117.9	117.9
75°	103.8	94.3	84.9	80.2	75.5	70.7	66.0	61.3	56.6	51.9	51.9
77.5°	56.6	47.2	42.4	37.7	37.7	33.0	28.3	28.3	23.6	23.6	23.6
80°	33.0	28.3	23.6	18.9	18.9	14.1	14.1	14.1	14.1	9.4	9.4
82.5°	18.9	14.1	9.4	9.4	9.4	9.4	4.7	4.7	4.7	4.7	4.7
85°	9.4	9.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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: P252428

CATALOG NUMBER: LD6B70D010TE EU6B60708030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4	3631.4
2.5°	3603.1	3617.2	3603.1	3617.2	3617.2	3617.2	3617.2	3603.1
5°	3579.5	3588.9	3574.8	3584.2	3588.9	3584.2	3584.2	3570.1
7.5°	3537.1	3546.5	3532.4	3546.5	3551.2	3546.5	3541.8	3532.4
10°	3494.6	3499.3	3485.2	3494.6	3504.1	3504.1	3499.3	3485.2
12.5°	3428.6	3442.7	3428.6	3438.0	3447.5	3452.2	3452.2	3438.0
15°	3353.1	3376.7	3367.3	3381.4	3395.6	3400.3	3400.3	3395.6
17.5°	3277.7	3301.3	3287.1	3310.7	3324.8	3334.3	3339.0	3329.6
20°	3169.2	3197.5	3188.1	3206.9	3225.8	3240.0	3240.0	3225.8
22.5°	3027.7	3065.5	3060.7	3074.9	3098.5	3103.2	3112.6	3103.2
25°	2872.1	2900.4	2895.7	2909.8	2938.1	2938.1	2942.8	2942.8
27.5°	2692.9	2721.2	2716.5	2725.9	2744.8	2749.5	2754.2	2744.8
30°	2499.5	2513.7	2513.7	2527.8	2542.0	2546.7	2546.7	2532.5
32.5°	2287.3	2306.2	2315.6	2310.9	2325.0	2334.5	2329.8	2329.8
35°	2093.9	2098.7	2103.4	2108.1	2112.8	2122.2	2112.8	2108.1
37.5°	1886.4	1900.6	1891.2	1900.6	1910.0	1905.3	1900.6	1900.6
40°	1697.8	1702.5	1693.1	1702.5	1707.2	1707.2	1707.2	1697.8
42.5°	1509.2	1518.6	1509.2	1518.6	1518.6	1518.6	1518.6	1513.9
45°	1320.5	1329.9	1329.9	1334.7	1334.7	1329.9	1329.9	1329.9
47.5°	1146.0	1155.4	1146.0	1155.4	1160.2	1150.7	1150.7	1150.7
50°	980.9	976.2	976.2	980.9	980.9	980.9	980.9	976.2
52.5°	811.2	815.9	815.9	815.9	820.6	815.9	820.6	820.6
55°	665.0	665.0	665.0	669.7	665.0	665.0	669.7	674.4
57.5°	532.9	528.2	523.5	523.5	528.2	523.5	523.5	523.5
60°	410.3	405.6	400.9	400.9	400.9	400.9	400.9	396.2
62.5°	306.5	306.5	306.5	311.3	311.3	311.3	311.3	316.0
65°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	250.0
67.5°	198.1	198.1	198.1	202.8	202.8	202.8	202.8	202.8
70°	165.1	165.1	169.8	165.1	169.8	169.8	169.8	169.8
72.5°	113.2	113.2	113.2	113.2	113.2	108.5	113.2	108.5
75°	47.2	47.2	47.2	47.2	47.2	47.2	47.2	42.4
77.5°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
80°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
82.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	0.0	0.0	0.0
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)