

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: P212849

Luminaire Tested: **LD6B60D010TE EU6B60708030 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60708030 6LBSWL11
Description: PORTFOLIO 6 INCH SINGLE 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: 5706.4 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

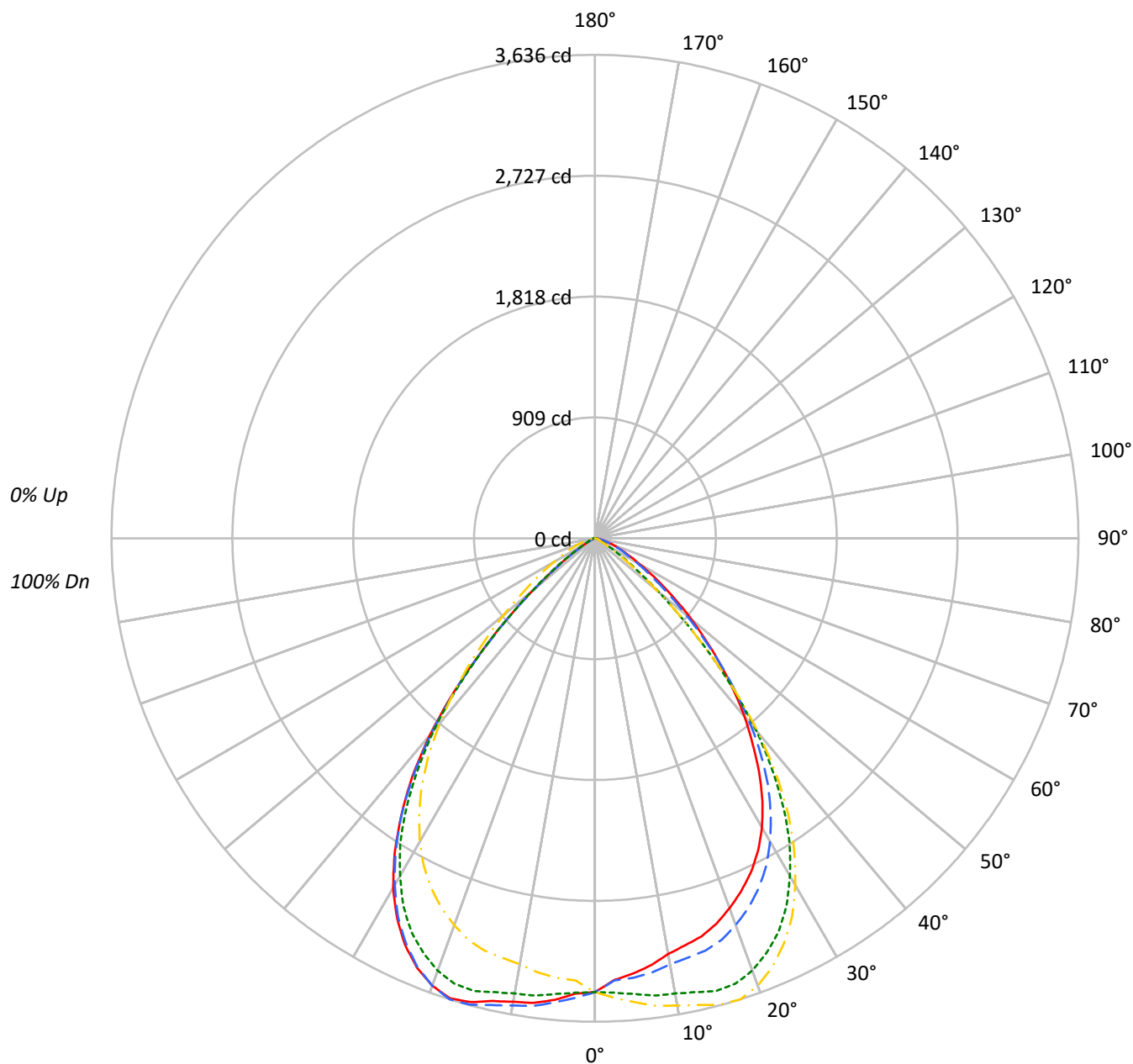
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																						
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102	100
1	112	109	106	103		110	107	104	102		103	100	98		99	97	96		95	94	93	91
2	105	99	94	90		103	97	93	89		94	90	87		91	88	85		88	86	84	82
3	98	91	84	80		96	89	84	79		86	82	78		84	80	76		81	78	75	73
4	92	83	76	71		90	82	75	70		79	74	70		77	73	69		75	71	68	66
5	86	76	69	64		84	75	68	63		73	67	63		71	66	62		70	65	62	60
6	81	70	63	57		79	69	62	57		67	61	57		66	60	56		64	60	56	54
7	76	64	57	52		74	64	57	52		62	56	52		61	56	51		60	55	51	49
8	71	60	53	48		70	59	52	48		58	52	47		57	51	47		56	51	47	45
9	67	55	48	44		66	55	48	44		54	48	43		53	47	43		52	47	43	42
10	63	52	45	40		62	51	45	40		50	44	40		49	44	40		49	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	187107	187107	187107	187107
5°	180822	189351	191756	189351
10°	176722	193528	197068	193528
15°	175892	200018	204978	200018
20°	172688	201892	208846	201892
25°	167756	197558	204284	197558
30°	158955	185617	192156	185617
35°	144119	165394	169911	165394
40°	125113	134774	138187	134774
45°	102577	93025	93645	93025
50°	80646	52186	51171	52186
55°	59620	25825	23168	25825
60°	42255	11326	8278	11326
65°	31443	7212	5150	7212
70°	22921	5738	3815	5738
75°	16839	4215	2521	4215
80°	11302	3757	1263	3757
85°	7485	2516	2516	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.7	5.7
10°-20°	967.7	17.0
20°-30°	1444.1	25.3
30°-40°	1483.7	26.0
40°-50°	960.8	16.8
50°-60°	357.3	6.3
60°-70°	117.2	2.1
70°-80°	41.4	0.7
80°-90°	7.4	0.1
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°	2738.6	48.0
0°-40°	4222.3	74.0
0°-60°	5540.4	97.1
0°-90°	5706.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5706.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3413	3413	3413	3413	3413	
5°	3286	3441	3485	3441	3286	310
15°	3099	3524	3612	3524	3099	872
25°	2773	3266	3377	3266	2773	1271
35°	2154	2471	2539	2471	2154	1337
45°	1323	1200	1208	1200	1323	1023
55°	624	270	242	270	624	569
65°	242	56	40	56	242	246
75°	80	20	12	20	80	87
85°	12	4	4	4	12	16
90°	0	0	0	0	0	



TEST NUMBER: P212849

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3325.7	3373.3	3341.5	3361.4	3329.6	3329.6	3393.2	3357.4	3385.3	3357.4	3329.6
5°	3285.9	3345.5	3305.8	3325.7	3297.8	3301.8	3361.4	3333.6	3361.4	3341.5	3317.7
7.5°	3238.2	3297.8	3262.1	3281.9	3254.1	3262.1	3325.7	3297.8	3329.6	3309.8	3293.9
10°	3174.7	3238.2	3206.5	3226.3	3202.5	3206.5	3270.0	3250.2	3278.0	3266.1	3254.1
12.5°	3134.9	3194.5	3158.8	3178.6	3162.7	3170.7	3230.3	3214.4	3250.2	3238.2	3230.3
15°	3099.2	3154.8	3123.0	3142.9	3131.0	3134.9	3198.5	3182.6	3222.3	3214.4	3210.4
17.5°	3039.6	3099.2	3063.4	3087.3	3075.3	3079.3	3142.9	3131.0	3170.7	3170.7	3166.7
20°	2960.1	3019.7	2991.9	3007.8	2999.8	3007.8	3063.4	3055.5	3095.2	3095.2	3095.2
22.5°	2872.7	2932.3	2900.5	2916.4	2908.5	2920.4	2972.0	2972.0	3003.8	3007.8	3011.8
25°	2773.4	2833.0	2801.2	2821.0	2813.1	2821.0	2868.7	2872.7	2900.5	2900.5	2908.5
27.5°	2654.2	2713.8	2682.0	2697.9	2693.9	2697.9	2749.5	2757.5	2773.4	2777.3	2785.3
30°	2511.1	2566.8	2535.0	2550.9	2550.9	2550.9	2602.5	2606.5	2622.4	2626.4	2634.3
32.5°	2344.2	2391.9	2368.1	2384.0	2380.0	2388.0	2423.7	2439.6	2459.5	2455.5	2459.5
35°	2153.5	2205.2	2181.3	2193.3	2197.2	2209.2	2233.0	2252.9	2256.8	2260.8	2268.8
37.5°	1946.9	1998.6	1974.7	1986.6	1990.6	2014.5	2022.4	2042.3	2050.2	2050.2	2050.2
40°	1748.3	1772.1	1752.2	1764.1	1768.1	1788.0	1795.9	1811.8	1819.8	1815.8	1811.8
42.5°	1533.7	1553.6	1533.7	1545.6	1545.6	1561.5	1565.5	1585.3	1585.3	1577.4	1565.5
45°	1323.1	1343.0	1323.1	1331.1	1331.1	1346.9	1346.9	1346.9	1354.9	1343.0	1323.1
47.5°	1124.4	1144.3	1124.4	1132.4	1128.4	1140.3	1136.4	1140.3	1128.4	1120.5	1096.6
50°	945.6	953.6	945.6	941.7	945.6	953.6	949.6	949.6	933.7	921.8	894.0
52.5°	770.8	782.7	770.8	770.8	770.8	778.8	778.8	774.8	758.9	743.0	715.2
55°	623.8	631.8	627.8	623.8	623.8	631.8	623.8	623.8	607.9	596.0	568.2
57.5°	496.7	500.6	496.7	496.7	496.7	500.6	500.6	492.7	480.8	468.8	449.0
60°	385.4	389.4	389.4	385.4	385.4	393.4	393.4	389.4	377.5	369.5	349.7
62.5°	305.9	305.9	305.9	305.9	305.9	309.9	309.9	309.9	302.0	294.0	278.1
65°	242.4	246.3	242.4	242.4	246.3	250.3	246.3	250.3	242.4	238.4	226.5
67.5°	186.7	190.7	186.7	190.7	190.7	194.7	190.7	194.7	186.7	182.8	174.8
70°	143.0	143.0	143.0	143.0	143.0	147.0	143.0	147.0	143.0	139.1	131.1
72.5°	107.3	107.3	111.3	111.3	107.3	111.3	107.3	107.3	107.3	103.3	99.3
75°	79.5	79.5	83.4	79.5	79.5	79.5	79.5	79.5	75.5	75.5	71.5
77.5°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	51.7	51.7	47.7
80°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	31.8	31.8
82.5°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	19.9	19.9
85°	11.9	11.9	11.9	15.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
87.5°	4.0	4.0	4.0	7.9	4.0	4.0	7.9	7.9	4.0	4.0	4.0
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°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3361.4	3373.3	3373.3	3361.4	3389.2	3365.4	3413.1	3369.4	3381.3	3421.0	3417.0
5°	3349.5	3365.4	3369.4	3361.4	3397.2	3377.3	3425.0	3381.3	3401.1	3440.9	3440.9
7.5°	3333.6	3353.5	3361.4	3369.4	3401.1	3381.3	3436.9	3393.2	3421.0	3468.7	3464.7
10°	3297.8	3325.7	3341.5	3353.5	3385.3	3373.3	3432.9	3397.2	3421.0	3476.6	3472.7
12.5°	3278.0	3309.8	3333.6	3353.5	3389.2	3381.3	3440.9	3409.1	3440.9	3496.5	3496.5
15°	3262.1	3297.8	3325.7	3361.4	3397.2	3389.2	3452.8	3425.0	3456.8	3524.3	3520.3
17.5°	3222.3	3266.1	3293.9	3333.6	3369.4	3365.4	3432.9	3413.1	3448.8	3512.4	3516.4
20°	3154.8	3194.5	3226.3	3274.0	3313.7	3305.8	3377.3	3357.4	3393.2	3460.7	3464.7
22.5°	3067.4	3107.1	3138.9	3190.6	3226.3	3222.3	3293.9	3274.0	3309.8	3373.3	3377.3
25°	2964.1	2999.8	3031.6	3079.3	3119.0	3119.0	3182.6	3162.7	3202.5	3266.1	3266.1
27.5°	2836.9	2868.7	2896.5	2952.2	2983.9	2983.9	3043.5	3023.7	3063.4	3119.0	3115.1
30°	2682.0	2709.8	2733.6	2781.3	2809.1	2813.1	2864.7	2844.9	2884.6	2932.3	2932.3
32.5°	2495.2	2523.0	2538.9	2598.5	2618.4	2614.4	2654.2	2634.3	2674.0	2725.7	2713.8
35°	2296.6	2308.5	2320.4	2380.0	2388.0	2372.1	2411.8	2391.9	2419.7	2471.4	2463.4
37.5°	2070.1	2074.1	2074.1	2125.7	2129.7	2117.8	2141.6	2117.8	2137.6	2185.3	2181.3
40°	1819.8	1815.8	1811.8	1851.6	1847.6	1823.7	1839.6	1819.8	1847.6	1883.3	1863.5
42.5°	1565.5	1553.6	1537.7	1557.5	1541.6	1521.8	1529.7	1497.9	1517.8	1545.6	1521.8
45°	1315.2	1291.3	1259.5	1263.5	1243.6	1219.8	1207.9	1176.1	1172.1	1199.9	1180.1
47.5°	1080.7	1033.1	1005.2	989.4	957.6	937.7	913.9	878.1	862.2	878.1	858.2
50°	870.2	822.5	786.7	751.0	719.2	695.3	655.6	631.8	607.9	611.9	596.0
52.5°	687.4	655.6	596.0	568.2	536.4	508.6	472.8	445.0	417.2	417.2	401.3
55°	544.3	500.6	460.9	421.2	389.4	365.5	329.8	302.0	274.2	270.2	254.3
57.5°	421.2	389.4	345.7	305.9	286.1	262.2	226.5	194.7	178.8	166.9	155.0
60°	325.8	294.0	258.3	226.5	202.6	186.7	151.0	127.1	111.3	103.3	91.4
62.5°	262.2	234.4	202.6	170.9	155.0	139.1	111.3	91.4	75.5	67.5	59.6
65°	210.6	186.7	162.9	139.1	127.1	111.3	91.4	75.5	63.6	55.6	47.7
67.5°	162.9	147.0	127.1	111.3	99.3	87.4	71.5	59.6	51.7	43.7	39.7
70°	123.2	111.3	99.3	83.4	75.5	67.5	55.6	43.7	39.7	35.8	31.8
72.5°	95.4	83.4	71.5	63.6	55.6	51.7	43.7	35.8	31.8	27.8	23.8
75°	63.6	59.6	51.7	43.7	39.7	35.8	31.8	27.8	23.8	19.9	19.9
77.5°	43.7	39.7	35.8	31.8	27.8	27.8	23.8	19.9	15.9	15.9	11.9
80°	27.8	23.8	23.8	19.9	19.9	19.9	15.9	11.9	11.9	11.9	7.9
82.5°	19.9	15.9	15.9	11.9	11.9	11.9	11.9	7.9	7.9	7.9	4.0
85°	11.9	7.9	7.9	7.9	7.9	7.9	7.9	4.0	4.0	4.0	4.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	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°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3385.3	3421.0	3421.0	3452.8	3456.8	3448.8	3413.1	3413.1	3460.7	3488.6	3440.9
5°	3417.0	3452.8	3452.8	3484.6	3500.5	3488.6	3452.8	3456.8	3504.4	3536.2	3488.6
7.5°	3444.9	3480.6	3488.6	3524.3	3536.2	3524.3	3488.6	3496.5	3548.2	3576.0	3528.3
10°	3456.8	3492.5	3496.5	3536.2	3552.1	3536.2	3508.4	3512.4	3568.0	3587.9	3544.2
12.5°	3484.6	3520.3	3520.3	3564.0	3579.9	3568.0	3532.3	3540.2	3595.8	3615.7	3572.0
15°	3512.4	3548.2	3548.2	3595.8	3615.7	3599.8	3572.0	3576.0	3631.6	3651.5	3615.7
17.5°	3512.4	3544.2	3544.2	3595.8	3615.7	3603.8	3572.0	3576.0	3635.6	3651.5	3615.7
20°	3460.7	3496.5	3488.6	3540.2	3560.1	3548.2	3520.3	3520.3	3579.9	3595.8	3560.1
22.5°	3377.3	3409.1	3401.1	3448.8	3472.7	3456.8	3432.9	3429.0	3488.6	3504.4	3468.7
25°	3262.1	3293.9	3285.9	3333.6	3357.4	3337.6	3309.8	3313.7	3361.4	3385.3	3353.5
27.5°	3127.0	3146.9	3134.9	3182.6	3206.5	3186.6	3158.8	3162.7	3210.4	3226.3	3202.5
30°	2944.2	2960.1	2948.2	2987.9	3003.8	2991.9	2968.1	2968.1	3011.8	3031.6	3007.8
32.5°	2725.7	2737.6	2725.7	2757.5	2789.3	2765.4	2741.6	2741.6	2789.3	2805.1	2777.3
35°	2471.4	2483.3	2475.4	2507.2	2531.0	2499.2	2479.3	2471.4	2535.0	2527.0	2511.1
37.5°	2189.3	2197.2	2173.4	2229.0	2240.9	2205.2	2189.3	2181.3	2237.0	2233.0	2217.1
40°	1871.4	1879.4	1863.5	1903.2	1907.2	1879.4	1867.5	1855.5	1911.2	1907.2	1895.3
42.5°	1533.7	1537.7	1517.8	1549.6	1557.5	1529.7	1525.7	1509.9	1561.5	1553.6	1549.6
45°	1184.0	1184.0	1168.1	1192.0	1199.9	1176.1	1168.1	1164.2	1199.9	1199.9	1192.0
47.5°	858.2	846.3	826.4	862.2	866.2	850.3	846.3	834.4	870.2	870.2	862.2
50°	588.0	584.1	580.1	588.0	592.0	572.2	584.1	572.2	592.0	592.0	592.0
52.5°	393.4	389.4	381.4	389.4	389.4	377.5	377.5	373.5	389.4	389.4	381.4
55°	246.3	242.4	238.4	242.4	242.4	230.5	238.4	230.5	238.4	238.4	234.4
57.5°	151.0	143.0	143.0	139.1	139.1	131.1	135.1	135.1	135.1	135.1	135.1
60°	87.4	83.4	79.5	79.5	79.5	75.5	75.5	75.5	75.5	75.5	75.5
62.5°	55.6	55.6	51.7	51.7	51.7	51.7	51.7	47.7	51.7	51.7	51.7
65°	47.7	43.7	43.7	43.7	43.7	39.7	39.7	39.7	39.7	39.7	39.7
67.5°	39.7	35.8	35.8	35.8	35.8	31.8	31.8	31.8	31.8	31.8	31.8
70°	31.8	27.8	27.8	27.8	27.8	27.8	23.8	27.8	27.8	23.8	23.8
72.5°	23.8	23.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
75°	15.9	15.9	15.9	15.9	15.9	11.9	11.9	11.9	11.9	11.9	11.9
77.5°	11.9	11.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
80°	7.9	7.9	7.9	7.9	7.9	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	4.0	4.0	4.0	4.0	4.0	0.0	4.0	0.0	4.0	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: P212849

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3496.5	3456.8	3436.9	3476.6	3492.5	3472.7	3456.8	3429.0	3456.8	3472.7	3492.5
5°	3544.2	3508.4	3492.5	3520.3	3544.2	3524.3	3512.4	3484.6	3512.4	3524.3	3544.2
7.5°	3587.9	3552.1	3532.3	3560.1	3587.9	3560.1	3548.2	3524.3	3548.2	3560.1	3587.9
10°	3603.8	3564.0	3548.2	3572.0	3599.8	3572.0	3556.1	3540.2	3556.1	3572.0	3599.8
12.5°	3631.6	3591.9	3572.0	3591.9	3619.7	3591.9	3576.0	3564.0	3576.0	3591.9	3619.7
15°	3671.3	3635.6	3611.7	3631.6	3667.4	3635.6	3615.7	3611.7	3615.7	3635.6	3667.4
17.5°	3671.3	3643.5	3619.7	3635.6	3671.3	3647.5	3619.7	3627.6	3619.7	3647.5	3671.3
20°	3619.7	3591.9	3572.0	3572.0	3623.6	3591.9	3568.0	3579.9	3568.0	3591.9	3623.6
22.5°	3528.3	3504.4	3484.6	3480.6	3532.3	3504.4	3472.7	3496.5	3472.7	3504.4	3532.3
25°	3409.1	3385.3	3369.4	3361.4	3413.1	3381.3	3353.5	3377.3	3353.5	3381.3	3413.1
27.5°	3254.1	3234.3	3218.4	3206.5	3254.1	3226.3	3198.5	3222.3	3198.5	3226.3	3254.1
30°	3055.5	3043.5	3027.7	3011.8	3059.4	3031.6	3003.8	3035.6	3003.8	3031.6	3059.4
32.5°	2825.0	2817.1	2797.2	2781.3	2829.0	2797.2	2777.3	2801.2	2777.3	2797.2	2829.0
35°	2558.8	2546.9	2535.0	2507.2	2558.8	2531.0	2531.0	2538.9	2531.0	2531.0	2558.8
37.5°	2260.8	2252.9	2237.0	2213.1	2256.8	2237.0	2229.0	2252.9	2229.0	2237.0	2256.8
40°	1927.0	1923.1	1911.2	1883.3	1931.0	1911.2	1899.2	1931.0	1899.2	1911.2	1931.0
42.5°	1577.4	1569.5	1557.5	1553.6	1577.4	1561.5	1573.4	1573.4	1573.4	1561.5	1577.4
45°	1215.8	1207.9	1199.9	1184.0	1211.9	1203.9	1199.9	1207.9	1199.9	1203.9	1211.9
47.5°	882.1	874.1	866.2	854.3	882.1	870.2	870.2	878.1	870.2	870.2	882.1
50°	592.0	596.0	592.0	584.1	592.0	588.0	592.0	600.0	592.0	588.0	592.0
52.5°	393.4	393.4	385.4	381.4	389.4	385.4	397.3	389.4	397.3	385.4	389.4
55°	238.4	242.4	238.4	234.4	238.4	234.4	246.3	242.4	246.3	234.4	238.4
57.5°	135.1	135.1	139.1	135.1	143.0	139.1	139.1	139.1	139.1	139.1	143.0
60°	75.5	75.5	75.5	75.5	75.5	75.5	79.5	75.5	79.5	75.5	75.5
62.5°	51.7	51.7	51.7	47.7	51.7	47.7	51.7	51.7	51.7	47.7	51.7
65°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
67.5°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
70°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
72.5°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
75°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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: P212849

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3476.6	3436.9	3456.8	3496.5	3440.9	3488.6	3460.7	3413.1	3413.1	3448.8	3456.8
5°	3520.3	3492.5	3508.4	3544.2	3488.6	3536.2	3504.4	3456.8	3452.8	3488.6	3500.5
7.5°	3560.1	3532.3	3552.1	3587.9	3528.3	3576.0	3548.2	3496.5	3488.6	3524.3	3536.2
10°	3572.0	3548.2	3564.0	3603.8	3544.2	3587.9	3568.0	3512.4	3508.4	3536.2	3552.1
12.5°	3591.9	3572.0	3591.9	3631.6	3572.0	3615.7	3595.8	3540.2	3532.3	3568.0	3579.9
15°	3631.6	3611.7	3635.6	3671.3	3615.7	3651.5	3631.6	3576.0	3572.0	3599.8	3615.7
17.5°	3635.6	3619.7	3643.5	3671.3	3615.7	3651.5	3635.6	3576.0	3572.0	3603.8	3615.7
20°	3572.0	3572.0	3591.9	3619.7	3560.1	3595.8	3579.9	3520.3	3520.3	3548.2	3560.1
22.5°	3480.6	3484.6	3504.4	3528.3	3468.7	3504.4	3488.6	3429.0	3432.9	3456.8	3472.7
25°	3361.4	3369.4	3385.3	3409.1	3353.5	3385.3	3361.4	3313.7	3309.8	3337.6	3357.4
27.5°	3206.5	3218.4	3234.3	3254.1	3202.5	3226.3	3210.4	3162.7	3158.8	3186.6	3206.5
30°	3011.8	3027.7	3043.5	3055.5	3007.8	3031.6	3011.8	2968.1	2968.1	2991.9	3003.8
32.5°	2781.3	2797.2	2817.1	2825.0	2777.3	2805.1	2789.3	2741.6	2741.6	2765.4	2789.3
35°	2507.2	2535.0	2546.9	2558.8	2511.1	2527.0	2535.0	2471.4	2479.3	2499.2	2531.0
37.5°	2213.1	2237.0	2252.9	2260.8	2217.1	2233.0	2237.0	2181.3	2189.3	2205.2	2240.9
40°	1883.3	1911.2	1923.1	1927.0	1895.3	1907.2	1911.2	1855.5	1867.5	1879.4	1907.2
42.5°	1553.6	1557.5	1569.5	1577.4	1549.6	1553.6	1561.5	1509.9	1525.7	1529.7	1557.5
45°	1184.0	1199.9	1207.9	1215.8	1192.0	1199.9	1199.9	1164.2	1168.1	1176.1	1199.9
47.5°	854.3	866.2	874.1	882.1	862.2	870.2	870.2	834.4	846.3	850.3	866.2
50°	584.1	592.0	596.0	592.0	592.0	592.0	592.0	572.2	584.1	572.2	592.0
52.5°	381.4	385.4	393.4	393.4	381.4	389.4	389.4	373.5	377.5	377.5	389.4
55°	234.4	238.4	242.4	238.4	234.4	238.4	238.4	230.5	238.4	230.5	242.4
57.5°	135.1	139.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	131.1	139.1
60°	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	79.5
62.5°	47.7	51.7	51.7	51.7	51.7	51.7	51.7	47.7	51.7	51.7	51.7
65°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	43.7
67.5°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	35.8
70°	23.8	23.8	23.8	23.8	23.8	23.8	27.8	27.8	23.8	27.8	27.8
72.5°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
75°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	15.9
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	7.9
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	4.0
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: P212849

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3452.8	3421.0	3421.0	3385.3	3417.0	3421.0	3381.3	3369.4	3413.1	3365.4	3389.2
5°	3484.6	3452.8	3452.8	3417.0	3440.9	3440.9	3401.1	3381.3	3425.0	3377.3	3397.2
7.5°	3524.3	3488.6	3480.6	3444.9	3464.7	3468.7	3421.0	3393.2	3436.9	3381.3	3401.1
10°	3536.2	3496.5	3492.5	3456.8	3472.7	3476.6	3421.0	3397.2	3432.9	3373.3	3385.3
12.5°	3564.0	3520.3	3520.3	3484.6	3496.5	3496.5	3440.9	3409.1	3440.9	3381.3	3389.2
15°	3595.8	3548.2	3548.2	3512.4	3520.3	3524.3	3456.8	3425.0	3452.8	3389.2	3397.2
17.5°	3595.8	3544.2	3544.2	3512.4	3516.4	3512.4	3448.8	3413.1	3432.9	3365.4	3369.4
20°	3540.2	3488.6	3496.5	3460.7	3464.7	3460.7	3393.2	3357.4	3377.3	3305.8	3313.7
22.5°	3448.8	3401.1	3409.1	3377.3	3377.3	3373.3	3309.8	3274.0	3293.9	3222.3	3226.3
25°	3333.6	3285.9	3293.9	3262.1	3266.1	3266.1	3202.5	3162.7	3182.6	3119.0	3119.0
27.5°	3182.6	3134.9	3146.9	3127.0	3115.1	3119.0	3063.4	3023.7	3043.5	2983.9	2983.9
30°	2987.9	2948.2	2960.1	2944.2	2932.3	2932.3	2884.6	2844.9	2864.7	2813.1	2809.1
32.5°	2757.5	2725.7	2737.6	2725.7	2713.8	2725.7	2674.0	2634.3	2654.2	2614.4	2618.4
35°	2507.2	2475.4	2483.3	2471.4	2463.4	2471.4	2419.7	2391.9	2411.8	2372.1	2388.0
37.5°	2229.0	2173.4	2197.2	2189.3	2181.3	2185.3	2137.6	2117.8	2141.6	2117.8	2129.7
40°	1903.2	1863.5	1879.4	1871.4	1863.5	1883.3	1847.6	1819.8	1839.6	1823.7	1847.6
42.5°	1549.6	1517.8	1537.7	1533.7	1521.8	1545.6	1517.8	1497.9	1529.7	1521.8	1541.6
45°	1192.0	1168.1	1184.0	1184.0	1180.1	1199.9	1172.1	1176.1	1207.9	1219.8	1243.6
47.5°	862.2	826.4	846.3	858.2	858.2	878.1	862.2	878.1	913.9	937.7	957.6
50°	588.0	580.1	584.1	588.0	596.0	611.9	607.9	631.8	655.6	695.3	719.2
52.5°	389.4	381.4	389.4	393.4	401.3	417.2	417.2	445.0	472.8	508.6	536.4
55°	242.4	238.4	242.4	246.3	254.3	270.2	274.2	302.0	329.8	365.5	389.4
57.5°	139.1	143.0	143.0	151.0	155.0	166.9	178.8	194.7	226.5	262.2	286.1
60°	79.5	79.5	83.4	87.4	91.4	103.3	111.3	127.1	151.0	186.7	202.6
62.5°	51.7	51.7	55.6	55.6	59.6	67.5	75.5	91.4	111.3	139.1	155.0
65°	43.7	43.7	43.7	47.7	47.7	55.6	63.6	75.5	91.4	111.3	127.1
67.5°	35.8	35.8	35.8	39.7	39.7	43.7	51.7	59.6	71.5	87.4	99.3
70°	27.8	27.8	27.8	31.8	31.8	35.8	39.7	43.7	55.6	67.5	75.5
72.5°	19.9	19.9	23.8	23.8	23.8	27.8	31.8	35.8	43.7	51.7	55.6
75°	15.9	15.9	15.9	15.9	19.9	19.9	23.8	27.8	31.8	35.8	39.7
77.5°	7.9	7.9	11.9	11.9	11.9	15.9	15.9	19.9	23.8	27.8	27.8
80°	7.9	7.9	7.9	7.9	7.9	11.9	11.9	11.9	15.9	19.9	19.9
82.5°	4.0	4.0	4.0	4.0	4.0	7.9	7.9	7.9	11.9	11.9	11.9
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	7.9	7.9	7.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	4.0	4.0	4.0
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: P212849

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3361.4	3373.3	3373.3	3361.4	3329.6	3357.4	3385.3	3357.4	3393.2	3329.6	3329.6
5°	3361.4	3369.4	3365.4	3349.5	3317.7	3341.5	3361.4	3333.6	3361.4	3301.8	3297.8
7.5°	3369.4	3361.4	3353.5	3333.6	3293.9	3309.8	3329.6	3297.8	3325.7	3262.1	3254.1
10°	3353.5	3341.5	3325.7	3297.8	3254.1	3266.1	3278.0	3250.2	3270.0	3206.5	3202.5
12.5°	3353.5	3333.6	3309.8	3278.0	3230.3	3238.2	3250.2	3214.4	3230.3	3170.7	3162.7
15°	3361.4	3325.7	3297.8	3262.1	3210.4	3214.4	3222.3	3182.6	3198.5	3134.9	3131.0
17.5°	3333.6	3293.9	3266.1	3222.3	3166.7	3170.7	3170.7	3131.0	3142.9	3079.3	3075.3
20°	3274.0	3226.3	3194.5	3154.8	3095.2	3095.2	3095.2	3055.5	3063.4	3007.8	2999.8
22.5°	3190.6	3138.9	3107.1	3067.4	3011.8	3007.8	3003.8	2972.0	2972.0	2920.4	2908.5
25°	3079.3	3031.6	2999.8	2964.1	2908.5	2900.5	2900.5	2872.7	2868.7	2821.0	2813.1
27.5°	2952.2	2896.5	2868.7	2836.9	2785.3	2777.3	2773.4	2757.5	2749.5	2697.9	2693.9
30°	2781.3	2733.6	2709.8	2682.0	2634.3	2626.4	2622.4	2606.5	2602.5	2550.9	2550.9
32.5°	2598.5	2538.9	2523.0	2495.2	2459.5	2455.5	2459.5	2439.6	2423.7	2388.0	2380.0
35°	2380.0	2320.4	2308.5	2296.6	2268.8	2260.8	2256.8	2252.9	2233.0	2209.2	2197.2
37.5°	2125.7	2074.1	2074.1	2070.1	2050.2	2050.2	2050.2	2042.3	2022.4	2014.5	1990.6
40°	1851.6	1811.8	1815.8	1819.8	1811.8	1815.8	1819.8	1811.8	1795.9	1788.0	1768.1
42.5°	1557.5	1537.7	1553.6	1565.5	1565.5	1577.4	1585.3	1585.3	1565.5	1561.5	1545.6
45°	1263.5	1259.5	1291.3	1315.2	1323.1	1343.0	1354.9	1346.9	1346.9	1346.9	1331.1
47.5°	989.4	1005.2	1033.1	1080.7	1096.6	1120.5	1128.4	1140.3	1136.4	1140.3	1128.4
50°	751.0	786.7	822.5	870.2	894.0	921.8	933.7	949.6	949.6	953.6	945.6
52.5°	568.2	596.0	655.6	687.4	715.2	743.0	758.9	774.8	778.8	778.8	770.8
55°	421.2	460.9	500.6	544.3	568.2	596.0	607.9	623.8	623.8	631.8	623.8
57.5°	305.9	345.7	389.4	421.2	449.0	468.8	480.8	492.7	500.6	500.6	496.7
60°	226.5	258.3	294.0	325.8	349.7	369.5	377.5	389.4	393.4	393.4	385.4
62.5°	170.9	202.6	234.4	262.2	278.1	294.0	302.0	309.9	309.9	309.9	305.9
65°	139.1	162.9	186.7	210.6	226.5	238.4	242.4	250.3	246.3	250.3	246.3
67.5°	111.3	127.1	147.0	162.9	174.8	182.8	186.7	194.7	190.7	194.7	190.7
70°	83.4	99.3	111.3	123.2	131.1	139.1	143.0	147.0	143.0	147.0	143.0
72.5°	63.6	71.5	83.4	95.4	99.3	103.3	107.3	107.3	107.3	111.3	107.3
75°	43.7	51.7	59.6	63.6	71.5	75.5	75.5	79.5	79.5	79.5	79.5
77.5°	31.8	35.8	39.7	43.7	47.7	51.7	51.7	55.6	55.6	55.6	55.6
80°	19.9	23.8	23.8	27.8	31.8	31.8	35.8	35.8	35.8	35.8	35.8
82.5°	11.9	15.9	15.9	19.9	19.9	19.9	23.8	23.8	23.8	23.8	23.8
85°	7.9	7.9	7.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	7.9	7.9	4.0	4.0
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: P212849

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	3413.1	3413.1	3413.1	3413.1
2.5°	3361.4	3341.5	3373.3	3325.7
5°	3325.7	3305.8	3345.5	3285.9
7.5°	3281.9	3262.1	3297.8	3238.2
10°	3226.3	3206.5	3238.2	3174.7
12.5°	3178.6	3158.8	3194.5	3134.9
15°	3142.9	3123.0	3154.8	3099.2
17.5°	3087.3	3063.4	3099.2	3039.6
20°	3007.8	2991.9	3019.7	2960.1
22.5°	2916.4	2900.5	2932.3	2872.7
25°	2821.0	2801.2	2833.0	2773.4
27.5°	2697.9	2682.0	2713.8	2654.2
30°	2550.9	2535.0	2566.8	2511.1
32.5°	2384.0	2368.1	2391.9	2344.2
35°	2193.3	2181.3	2205.2	2153.5
37.5°	1986.6	1974.7	1998.6	1946.9
40°	1764.1	1752.2	1772.1	1748.3
42.5°	1545.6	1533.7	1553.6	1533.7
45°	1331.1	1323.1	1343.0	1323.1
47.5°	1132.4	1124.4	1144.3	1124.4
50°	941.7	945.6	953.6	945.6
52.5°	770.8	770.8	782.7	770.8
55°	623.8	627.8	631.8	623.8
57.5°	496.7	496.7	500.6	496.7
60°	385.4	389.4	389.4	385.4
62.5°	305.9	305.9	305.9	305.9
65°	242.4	242.4	246.3	242.4
67.5°	190.7	186.7	190.7	186.7
70°	143.0	143.0	143.0	143.0
72.5°	111.3	111.3	107.3	107.3
75°	79.5	83.4	79.5	79.5
77.5°	55.6	55.6	55.6	55.6
80°	35.8	35.8	35.8	35.8
82.5°	23.8	23.8	23.8	23.8
85°	15.9	11.9	11.9	11.9
87.5°	7.9	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°





















(END OF REPORT)