

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: P252213

Luminaire Tested: **LD6B60D010TE EU6B60709030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252213
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: LD6B60D010TE EU6B60709030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6492.0 lumens
Efficiency: N/A
Efficacy: 103.9 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

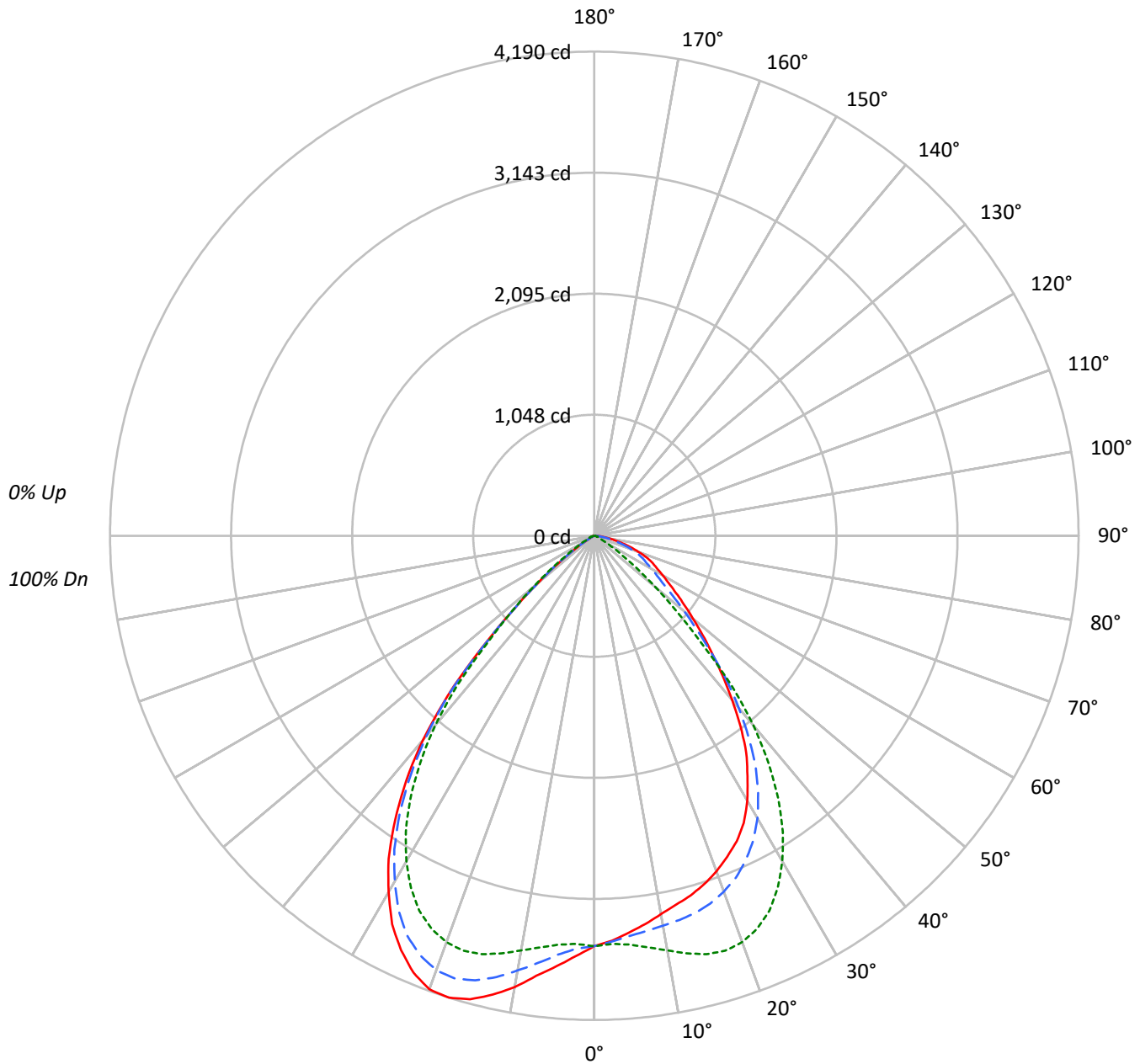
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	231709	231709	231709
5°	225704	232594	244827
10°	220212	241358	262729
15°	217641	253188	280475
20°	214524	259784	289958
25°	209959	257865	284751
30°	199513	245044	268066
35°	182536	220941	239331
40°	157888	182467	196349
45°	133146	119676	128441
50°	113037	69271	65130
55°	98092	33213	25103
60°	88610	15501	6198
65°	85970	8907	2099
70°	77082	7115	1946
75°	63345	5142	857
80°	47189	2555	0
85°	40646	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.1	5.3
10°-20°	1045.5	16.1
20°-30°	1597.4	24.6
30°-40°	1670.8	25.7
40°-50°	1083.8	16.7
50°-60°	430.3	6.6
60°-70°	204.1	3.1
70°-80°	97.1	1.5
80°-90°	19.8	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°	2986.0	46.0
0°-40°	4656.8	71.7
0°-60°	6171.0	95.1
0°-90°	6492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6492.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3552	3552	3552	3552	3552	
5°	3446	3477	3552	3640	3738	325
15°	3222	3378	3749	3983	4153	908
25°	2917	3100	3582	3823	3956	1336
35°	2292	2431	2774	2937	3005	1417
45°	1443	1430	1297	1375	1392	1123
55°	862	733	292	228	221	781
65°	557	462	58	14	14	544
75°	251	204	20	7	3	271
85°	54	34	0	0	0	63
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°	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6
2.5°	3507.5	3514.3	3476.9	3466.8	3493.9	3504.1	3507.5	3497.3	3500.7	3514.3	3514.3
5°	3446.4	3453.2	3419.2	3409.0	3436.2	3443.0	3453.2	3449.8	3460.0	3480.3	3476.9
7.5°	3388.7	3398.8	3361.5	3347.9	3381.9	3398.8	3405.6	3405.6	3419.2	3446.4	3449.8
10°	3324.1	3337.7	3303.8	3297.0	3334.3	3351.3	3354.7	3361.5	3381.9	3419.2	3426.0
12.5°	3269.8	3283.4	3259.6	3249.4	3290.2	3307.2	3314.0	3327.5	3351.3	3398.8	3405.6
15°	3222.3	3232.5	3205.3	3198.5	3239.3	3259.6	3263.0	3283.4	3314.0	3368.3	3378.5
17.5°	3161.2	3168.0	3147.6	3140.8	3181.5	3201.9	3205.3	3229.1	3266.4	3320.7	3337.7
20°	3089.9	3096.6	3076.3	3069.5	3110.2	3134.0	3137.4	3157.8	3201.9	3259.6	3276.6
22.5°	3005.0	3018.6	2994.8	2988.0	3028.7	3049.1	3059.3	3076.3	3120.4	3178.1	3201.9
25°	2916.7	2916.7	2899.7	2896.3	2933.7	2957.4	2954.0	2977.8	3021.9	3079.7	3100.0
27.5°	2801.2	2797.8	2780.9	2777.5	2818.2	2838.6	2831.8	2855.6	2896.3	2954.0	2974.4
30°	2648.4	2655.2	2631.5	2624.7	2658.6	2692.6	2689.2	2713.0	2753.7	2808.0	2821.6
32.5°	2465.1	2471.9	2468.5	2458.3	2488.9	2505.8	2516.0	2533.0	2567.0	2624.7	2638.3
35°	2291.9	2281.7	2268.2	2268.2	2298.7	2325.9	2315.7	2336.1	2370.0	2427.7	2431.1
37.5°	2078.0	2074.6	2067.8	2061.0	2095.0	2101.8	2105.2	2118.8	2149.3	2196.9	2190.1
40°	1853.9	1857.3	1853.9	1840.3	1860.7	1887.9	1884.5	1891.3	1918.4	1952.4	1942.2
42.5°	1643.4	1643.4	1643.4	1629.8	1653.6	1667.2	1674.0	1670.6	1677.4	1707.9	1694.3
45°	1443.1	1446.5	1443.1	1439.7	1443.1	1449.9	1443.1	1439.7	1439.7	1449.9	1429.5
47.5°	1269.9	1269.9	1259.7	1249.5	1259.7	1263.1	1252.9	1242.7	1239.3	1235.9	1202.0
50°	1113.7	1110.3	1106.9	1089.9	1100.1	1103.5	1089.9	1083.1	1069.6	1052.6	1011.8
52.5°	977.9	974.5	971.1	954.1	960.9	964.3	950.7	937.1	920.2	906.6	855.7
55°	862.4	859.0	859.0	848.9	842.1	848.9	835.3	825.1	801.3	784.3	733.4
57.5°	764.0	764.0	757.2	747.0	750.4	750.4	736.8	723.2	702.9	682.5	641.7
60°	679.1	679.1	679.1	668.9	668.9	668.9	662.1	648.5	631.6	611.2	570.4
62.5°	611.2	611.2	607.8	597.6	601.0	601.0	594.2	580.6	563.6	550.1	509.3
65°	556.9	556.9	556.9	546.7	546.7	550.1	543.3	529.7	516.1	499.1	461.8
67.5°	488.9	485.5	485.5	478.8	482.2	485.5	478.8	468.6	451.6	441.4	407.5
70°	404.1	407.5	410.8	400.7	404.1	404.1	400.7	390.5	380.3	370.1	339.5
72.5°	329.4	329.4	326.0	322.6	322.6	326.0	319.2	309.0	302.2	295.4	271.6
75°	251.3	247.9	251.3	244.5	244.5	244.5	237.7	234.3	230.9	220.7	203.7
77.5°	183.4	180.0	180.0	173.2	176.6	176.6	173.2	166.4	159.6	156.2	142.6
80°	125.6	125.6	125.6	122.2	122.2	118.8	118.8	115.4	108.7	105.3	98.5
82.5°	84.9	84.9	84.9	81.5	81.5	81.5	78.1	74.7	71.3	67.9	61.1
85°	54.3	54.3	54.3	50.9	50.9	50.9	47.5	47.5	44.1	40.7	34.0
87.5°	30.6	30.6	30.6	27.2	27.2	27.2	27.2	27.2	23.8	20.4	17.0
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°	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6
2.5°	3538.1	3490.5	3521.1	3521.1	3510.9	3538.1	3555.0	3568.6	3565.2	3534.7	3531.3
5°	3510.9	3470.1	3504.1	3507.5	3497.3	3534.7	3558.4	3575.4	3578.8	3551.6	3555.0
7.5°	3490.5	3456.6	3500.7	3514.3	3510.9	3544.8	3572.0	3599.2	3612.8	3592.4	3595.8
10°	3480.3	3453.2	3500.7	3521.1	3524.5	3561.8	3602.6	3639.9	3656.9	3643.3	3653.5
12.5°	3466.8	3449.8	3504.1	3534.7	3548.2	3585.6	3636.5	3680.7	3707.8	3701.0	3721.4
15°	3453.2	3439.6	3504.1	3548.2	3565.2	3599.2	3656.9	3721.4	3752.0	3748.6	3775.7
17.5°	3419.2	3415.8	3483.7	3531.3	3555.0	3595.8	3650.1	3728.2	3758.8	3765.5	3799.5
20°	3364.9	3364.9	3439.6	3490.5	3517.7	3555.0	3622.9	3697.6	3735.0	3741.8	3779.1
22.5°	3290.2	3297.0	3368.3	3419.2	3460.0	3487.1	3558.4	3636.5	3670.5	3680.7	3721.4
25°	3191.7	3198.5	3266.4	3317.4	3361.5	3392.1	3460.0	3531.3	3572.0	3582.2	3612.8
27.5°	3062.7	3076.3	3140.8	3191.7	3229.1	3249.4	3320.7	3395.4	3426.0	3436.2	3466.8
30°	2913.3	2916.7	2981.2	3025.3	3062.7	3079.7	3140.8	3218.9	3242.7	3252.8	3297.0
32.5°	2729.9	2726.5	2787.7	2828.4	2859.0	2879.3	2943.9	2994.8	3018.6	3035.5	3059.3
35°	2509.2	2505.8	2550.0	2597.5	2621.3	2628.1	2692.6	2746.9	2760.5	2774.1	2804.6
37.5°	2261.4	2261.4	2298.7	2322.5	2349.6	2359.8	2390.4	2451.5	2475.3	2471.9	2495.7
40°	1999.9	1986.3	2013.5	2037.3	2044.1	2047.5	2078.0	2125.5	2142.5	2142.5	2159.5
42.5°	1724.9	1704.5	1707.9	1721.5	1728.3	1704.5	1724.9	1755.4	1745.3	1758.8	1762.2
45°	1432.9	1402.3	1388.7	1358.2	1365.0	1341.2	1327.6	1334.4	1331.0	1297.1	1303.9
47.5°	1195.2	1140.9	1117.1	1073.0	1062.8	1035.6	1018.6	988.1	960.9	960.9	943.9
50°	994.9	940.5	893.0	842.1	825.1	801.3	764.0	723.2	702.9	682.5	665.5
52.5°	835.3	777.6	719.8	665.5	641.7	611.2	560.2	519.5	482.2	461.8	441.4
55°	706.3	641.7	580.6	522.9	492.3	461.8	410.8	363.3	319.2	292.0	275.0
57.5°	607.8	546.7	482.2	421.0	393.9	359.9	305.6	254.7	213.9	183.4	166.4
60°	536.5	475.4	417.6	353.1	326.0	292.0	234.3	186.7	146.0	118.8	98.5
62.5°	475.4	421.0	359.9	302.2	275.0	241.1	186.7	139.2	101.9	74.7	57.7
65°	431.2	376.9	326.0	268.2	244.5	210.5	159.6	115.4	81.5	57.7	40.7
67.5°	380.3	332.8	281.8	234.3	210.5	183.4	135.8	98.5	67.9	47.5	34.0
70°	319.2	281.8	237.7	193.5	176.6	152.8	112.0	81.5	54.3	37.3	27.2
72.5°	254.7	224.1	190.1	156.2	142.6	118.8	91.7	64.5	40.7	27.2	20.4
75°	193.5	169.8	142.6	118.8	105.3	91.7	67.9	47.5	30.6	20.4	13.6
77.5°	132.4	122.2	101.9	81.5	74.7	64.5	44.1	30.6	20.4	13.6	6.8
80°	91.7	81.5	67.9	54.3	47.5	40.7	27.2	20.4	10.2	6.8	3.4
82.5°	57.7	47.5	40.7	34.0	30.6	23.8	17.0	10.2	6.8	3.4	3.4
85°	30.6	27.2	23.8	17.0	17.0	13.6	10.2	6.8	3.4	0.0	0.0
87.5°	17.0	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°	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6
2.5°	3572.0	3572.0	3568.6	3609.4	3561.8	3609.4	3585.6	3609.4	3575.4	3572.0	3575.4
5°	3599.2	3609.4	3612.8	3650.1	3606.0	3663.7	3643.3	3663.7	3639.9	3646.7	3656.9
7.5°	3653.5	3670.5	3667.1	3714.6	3670.5	3735.0	3721.4	3752.0	3728.2	3735.0	3748.6
10°	3714.6	3735.0	3738.4	3785.9	3745.2	3823.3	3806.3	3840.2	3819.9	3830.1	3847.0
12.5°	3785.9	3809.7	3813.1	3867.4	3823.3	3904.8	3894.6	3928.5	3911.6	3921.7	3942.1
15°	3840.2	3874.2	3881.0	3935.3	3887.8	3972.7	3965.9	4010.0	3982.9	3999.8	4016.8
17.5°	3867.4	3898.0	3911.6	3962.5	3921.7	4006.6	3999.8	4037.2	4016.8	4033.8	4054.2
20°	3850.4	3887.8	3898.0	3948.9	3908.2	3993.0	3982.9	4020.2	3999.8	4013.4	4033.8
22.5°	3789.3	3826.7	3840.2	3887.8	3850.4	3928.5	3925.1	3959.1	3931.9	3948.9	3965.9
25°	3680.7	3721.4	3728.2	3772.3	3731.6	3813.1	3806.3	3843.6	3823.3	3833.5	3857.2
27.5°	3524.5	3572.0	3582.2	3619.5	3589.0	3656.9	3656.9	3687.5	3663.7	3663.7	3687.5
30°	3337.7	3385.3	3392.1	3422.6	3395.4	3456.6	3460.0	3490.5	3453.2	3473.5	3476.9
32.5°	3110.2	3140.8	3161.2	3188.3	3147.6	3225.7	3215.5	3239.3	3218.9	3218.9	3235.9
35°	2835.2	2872.5	2882.7	2916.7	2882.7	2943.9	2943.9	2957.4	2937.1	2937.1	2964.2
37.5°	2536.4	2563.6	2567.0	2600.9	2573.7	2624.7	2621.3	2631.5	2611.1	2624.7	2624.7
40°	2186.7	2207.0	2213.8	2230.8	2227.4	2264.8	2261.4	2268.2	2258.0	2261.4	2268.2
42.5°	1779.2	1806.4	1820.0	1833.5	1813.2	1864.1	1853.9	1864.1	1860.7	1864.1	1874.3
45°	1310.6	1331.0	1341.2	1344.6	1337.8	1368.4	1392.1	1371.8	1375.2	1368.4	1381.9
47.5°	947.3	950.7	943.9	964.3	947.3	960.9	967.7	971.1	950.7	947.3	960.9
50°	648.5	665.5	641.7	651.9	648.5	662.1	655.3	658.7	638.3	648.5	641.7
52.5°	431.2	427.8	421.0	424.4	417.6	417.6	417.6	424.4	410.8	404.1	397.3
55°	261.4	254.7	241.1	237.7	237.7	241.1	234.3	227.5	227.5	224.1	224.1
57.5°	152.8	142.6	135.8	132.4	125.6	122.2	118.8	118.8	112.0	112.0	112.0
60°	84.9	74.7	67.9	61.1	61.1	57.7	54.3	50.9	50.9	50.9	47.5
62.5°	44.1	37.3	30.6	27.2	27.2	23.8	20.4	20.4	20.4	20.4	17.0
65°	30.6	23.8	20.4	17.0	17.0	13.6	13.6	13.6	13.6	13.6	13.6
67.5°	23.8	20.4	17.0	13.6	13.6	13.6	10.2	10.2	10.2	10.2	10.2
70°	20.4	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: P252213

CATALOG NUMBER: LD6B60D010TE EU6B60709030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6
2.5°	3606.0	3602.6	3606.0	3612.8	3599.2	3639.9	3619.5	3639.9
5°	3684.1	3687.5	3690.8	3701.0	3684.1	3735.0	3707.8	3738.4
7.5°	3785.9	3789.3	3792.7	3802.9	3792.7	3843.6	3813.1	3840.2
10°	3891.2	3898.0	3898.0	3914.9	3904.8	3952.3	3931.9	3965.9
12.5°	3989.6	3996.4	4003.2	4013.4	4006.6	4057.6	4040.6	4067.7
15°	4067.7	4081.3	4084.7	4098.3	4091.5	4145.8	4125.5	4152.6
17.5°	4105.1	4118.7	4118.7	4135.7	4128.9	4186.6	4159.4	4190.0
20°	4084.7	4094.9	4098.3	4115.3	4108.5	4166.2	4139.0	4176.4
22.5°	4020.2	4023.6	4027.0	4044.0	4040.6	4091.5	4067.7	4091.5
25°	3901.4	3911.6	3908.2	3921.7	3921.7	3962.5	3935.3	3955.7
27.5°	3731.6	3741.8	3741.8	3758.8	3745.2	3785.9	3758.8	3789.3
30°	3524.5	3534.7	3527.9	3541.4	3527.9	3568.6	3548.2	3558.4
32.5°	3276.6	3276.6	3280.0	3283.4	3276.6	3314.0	3293.6	3314.0
35°	2981.2	2988.0	2991.4	2994.8	2988.0	3015.2	2991.4	3005.0
37.5°	2648.4	2665.4	2662.0	2665.4	2655.2	2689.2	2668.8	2675.6
40°	2291.9	2291.9	2288.5	2295.3	2285.1	2312.3	2298.7	2305.5
42.5°	1877.7	1887.9	1874.3	1891.3	1864.1	1901.4	1887.9	1877.7
45°	1409.1	1395.5	1392.1	1395.5	1385.3	1388.7	1398.9	1392.1
47.5°	960.9	960.9	954.1	943.9	957.5	960.9	947.3	947.3
50°	645.1	645.1	638.3	634.9	641.7	638.3	631.6	641.7
52.5°	410.8	397.3	397.3	404.1	397.3	390.5	400.7	393.9
55°	224.1	217.3	217.3	224.1	217.3	217.3	213.9	220.7
57.5°	108.7	112.0	108.7	108.7	108.7	108.7	105.3	108.7
60°	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
62.5°	20.4	20.4	17.0	17.0	17.0	17.0	17.0	17.0
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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)