

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: P252623

Luminaire Tested: **LD6B60D010TE EU6B60708030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252623
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: LD6B60D010TE EU6B60708030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE 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: 5953.0 lumens
Efficiency: N/A
Efficacy: 95.3 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

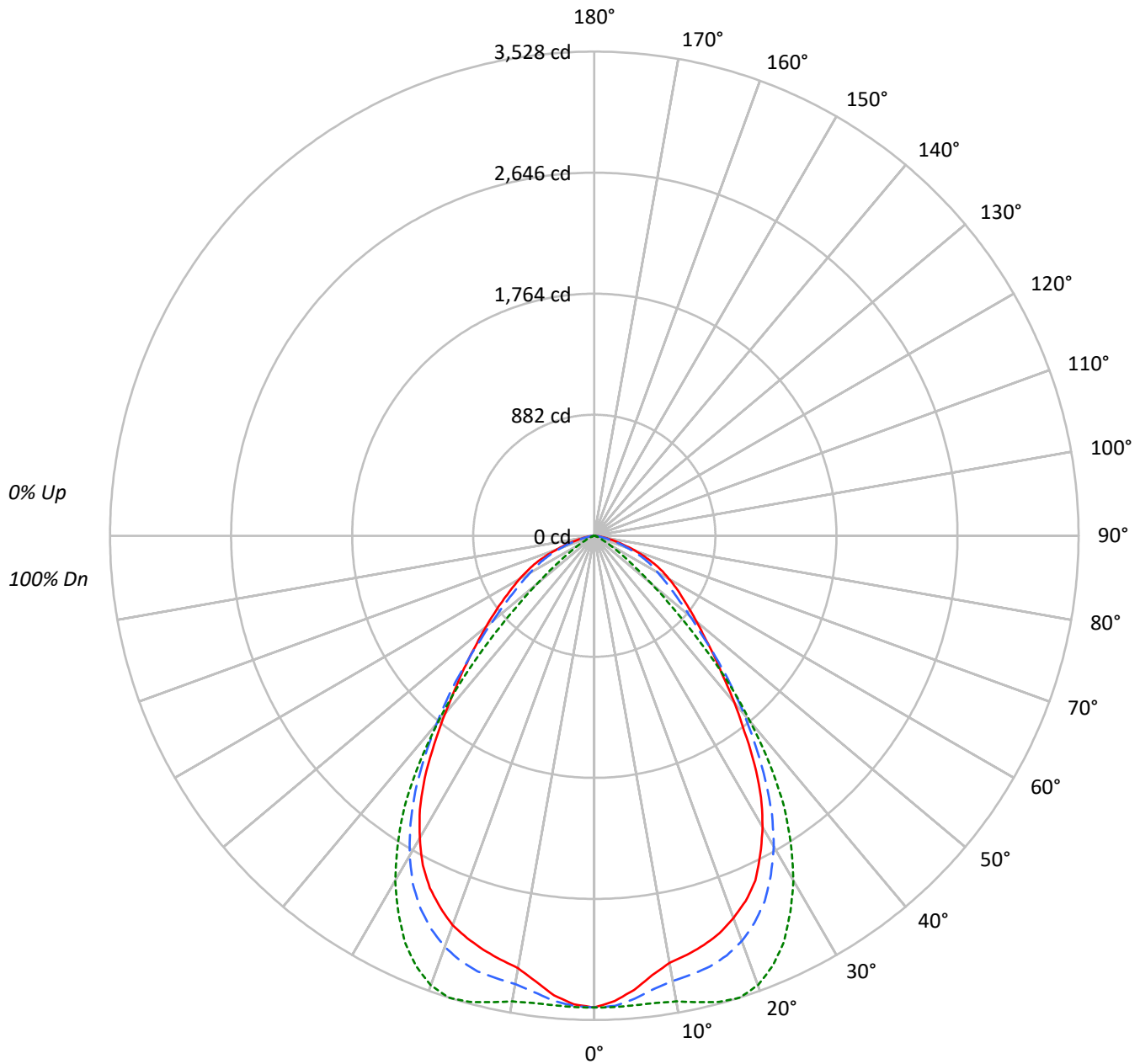
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	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°	224232	224232	224232
5°	217538	224827	220144
10°	209261	228215	211898
15°	208523	237505	210941
20°	205790	241928	209658
25°	199643	235110	203934
30°	184687	218512	191573
35°	162028	192086	171522
40°	135022	150581	143819
45°	113642	99350	121346
50°	98401	54443	104450
55°	89038	28925	91291
60°	81916	15031	81916
65°	74222	7981	72385
70°	59877	4540	55337
75°	41062	3000	38063
80°	26863	1503	23895
85°	17816	2994	14896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.5	5.4
10°-20°	926.7	15.6
20°-30°	1369.3	23.0
30°-40°	1383.1	23.2
40°-50°	953.3	16.0
50°-60°	547.5	9.2
60°-70°	318.7	5.4
70°-80°	116.3	2.0
80°-90°	17.8	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°	2616.5	44.0
0°-40°	3999.5	67.2
0°-60°	5500.3	92.4
0°-90°	5953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5953.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3437	3437	3437	3437	3437	
5°	3322	3385	3433	3401	3362	312
15°	3087	3250	3516	3286	3123	870
25°	2773	2936	3266	2996	2833	1264
35°	2034	2173	2412	2273	2154	1263
45°	1232	1248	1077	1327	1315	958
55°	783	687	254	715	803	705
65°	481	405	52	401	469	471
75°	163	131	12	127	151	184
85°	24	12	4	16	20	30
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°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3393.3	3397.2	3401.2	3397.2	3401.2	3417.1	3405.2	3413.1	3413.1	3417.1	3429.0
5°	3321.7	3321.7	3329.7	3325.7	3337.6	3353.5	3341.6	3353.5	3357.5	3365.4	3385.3
7.5°	3230.3	3230.3	3234.3	3234.3	3250.2	3266.1	3258.2	3274.1	3289.9	3305.8	3329.7
10°	3158.8	3166.8	3166.8	3170.7	3186.6	3206.5	3202.5	3222.4	3238.3	3262.1	3293.9
12.5°	3127.0	3131.0	3131.0	3139.0	3154.9	3174.7	3170.7	3190.6	3214.5	3242.3	3274.1
15°	3087.3	3095.3	3091.3	3099.2	3115.1	3135.0	3131.0	3150.9	3178.7	3206.5	3250.2
17.5°	3035.7	3039.6	3043.6	3043.6	3059.5	3075.4	3075.4	3095.3	3127.0	3158.8	3206.5
20°	2964.1	2972.1	2972.1	2976.1	2988.0	3011.8	3007.8	3027.7	3059.5	3091.3	3142.9
22.5°	2880.7	2884.7	2884.7	2888.6	2908.5	2920.4	2924.4	2940.3	2968.1	3003.9	3051.5
25°	2773.4	2777.4	2773.4	2785.3	2793.3	2817.1	2809.2	2829.0	2860.8	2888.6	2936.3
27.5°	2618.4	2626.4	2626.4	2630.4	2650.2	2670.1	2670.1	2690.0	2717.8	2737.7	2785.3
30°	2451.6	2463.5	2451.6	2471.4	2479.4	2495.3	2507.2	2519.1	2543.0	2570.8	2614.5
32.5°	2260.8	2256.9	2260.8	2268.8	2292.6	2304.6	2312.5	2324.4	2348.3	2372.1	2407.9
35°	2034.4	2042.3	2046.3	2062.2	2062.2	2082.0	2086.0	2094.0	2129.7	2145.6	2173.4
37.5°	1796.0	1803.9	1807.9	1815.8	1831.7	1839.7	1851.6	1863.5	1887.3	1915.2	1931.1
40°	1585.4	1585.4	1589.3	1597.3	1609.2	1613.2	1625.1	1641.0	1656.9	1680.7	1696.6
42.5°	1386.7	1390.7	1386.7	1394.7	1406.6	1422.5	1418.5	1438.4	1442.3	1458.2	1470.1
45°	1231.7	1231.7	1223.8	1231.7	1231.7	1247.6	1243.7	1251.6	1247.6	1255.6	1247.6
47.5°	1084.7	1088.7	1084.7	1088.7	1088.7	1088.7	1092.7	1084.7	1088.7	1076.8	1052.9
50°	969.5	973.5	965.5	969.5	965.5	961.6	965.5	953.6	949.6	933.7	909.9
52.5°	870.2	866.2	862.2	862.2	862.2	858.2	854.3	842.4	830.4	814.5	786.7
55°	782.8	778.8	774.8	774.8	766.9	762.9	762.9	751.0	739.0	719.2	687.4
57.5°	703.3	699.3	695.3	695.3	691.4	683.4	683.4	671.5	655.6	631.8	604.0
60°	627.8	627.8	627.8	623.8	623.8	615.9	615.9	604.0	588.1	564.2	532.4
62.5°	560.2	556.3	556.3	556.3	556.3	552.3	548.3	540.4	524.5	500.6	472.8
65°	480.8	480.8	480.8	480.8	476.8	476.8	476.8	464.9	456.9	433.1	405.3
67.5°	393.4	393.4	393.4	393.4	389.4	393.4	393.4	385.4	377.5	353.6	329.8
70°	313.9	309.9	305.9	309.9	305.9	305.9	309.9	302.0	298.0	278.1	254.3
72.5°	230.5	234.4	230.5	230.5	230.5	226.5	230.5	226.5	218.5	202.6	186.7
75°	162.9	166.9	166.9	162.9	162.9	162.9	158.9	158.9	151.0	139.1	131.1
77.5°	111.3	111.3	111.3	111.3	107.3	107.3	107.3	103.3	99.3	91.4	83.4
80°	71.5	71.5	71.5	71.5	67.5	67.5	67.5	63.6	63.6	55.6	47.7
82.5°	43.7	43.7	43.7	43.7	43.7	43.7	39.7	39.7	35.8	31.8	27.8
85°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	19.9	19.9	15.9	11.9
87.5°	7.9	7.9	11.9	11.9	11.9	11.9	11.9	11.9	7.9	7.9	7.9
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°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3421.1	3425.0	3425.0	3425.0	3437.0	3440.9	3429.0	3417.1	3440.9	3437.0	3444.9
5°	3381.3	3393.3	3401.2	3405.2	3417.1	3425.0	3413.1	3409.1	3429.0	3433.0	3437.0
7.5°	3333.7	3353.5	3373.4	3381.3	3397.2	3405.2	3401.2	3401.2	3425.0	3433.0	3433.0
10°	3301.9	3329.7	3353.5	3373.4	3393.3	3405.2	3405.2	3409.1	3437.0	3444.9	3452.9
12.5°	3293.9	3329.7	3361.5	3389.3	3405.2	3425.0	3429.0	3440.9	3468.8	3480.7	3480.7
15°	3274.1	3321.7	3361.5	3397.2	3421.1	3444.9	3452.9	3476.7	3508.5	3516.4	3524.4
17.5°	3238.3	3286.0	3333.7	3377.4	3409.1	3429.0	3452.9	3476.7	3516.4	3528.4	3532.3
20°	3174.7	3230.3	3278.0	3321.7	3353.5	3381.3	3405.2	3433.0	3468.8	3484.6	3488.6
22.5°	3079.4	3135.0	3182.7	3230.3	3262.1	3286.0	3309.8	3341.6	3377.4	3393.3	3393.3
25°	2964.1	3015.8	3067.4	3103.2	3135.0	3162.8	3174.7	3210.5	3246.2	3266.1	3266.1
27.5°	2817.1	2864.8	2912.5	2952.2	2972.1	2995.9	3015.8	3047.6	3075.4	3091.3	3107.2
30°	2630.4	2678.1	2721.8	2761.5	2785.3	2809.2	2829.0	2852.9	2880.7	2900.6	2904.5
32.5°	2427.7	2467.5	2511.2	2550.9	2574.7	2582.7	2602.6	2626.4	2650.2	2666.1	2670.1
35°	2205.2	2233.0	2260.8	2296.6	2320.4	2320.4	2340.3	2356.2	2376.1	2411.8	2403.9
37.5°	1943.0	1982.7	2002.6	2014.5	2030.4	2046.3	2050.3	2070.1	2094.0	2101.9	2113.8
40°	1696.6	1708.5	1720.5	1720.5	1736.4	1736.4	1736.4	1740.3	1764.2	1768.1	1784.0
42.5°	1450.3	1450.3	1438.4	1426.4	1430.4	1426.4	1406.6	1406.6	1418.5	1434.4	1434.4
45°	1219.8	1192.0	1156.3	1128.4	1108.6	1100.6	1076.8	1076.8	1072.8	1076.8	1092.7
47.5°	1025.1	977.4	917.8	862.2	842.4	826.5	790.7	774.8	766.9	770.8	778.8
50°	862.2	810.6	743.0	675.5	639.7	619.8	576.1	548.3	544.4	536.4	552.3
52.5°	743.0	679.4	607.9	528.5	492.7	460.9	413.2	389.4	373.5	373.5	377.5
55°	639.7	572.2	492.7	413.2	377.5	353.6	305.9	274.2	258.3	254.3	266.2
57.5°	552.3	488.7	409.3	329.8	294.0	266.2	218.5	190.7	178.8	170.9	174.8
60°	484.8	421.2	341.7	266.2	234.4	202.6	162.9	131.1	115.2	115.2	119.2
62.5°	421.2	361.6	290.1	218.5	190.7	162.9	119.2	91.4	79.5	75.5	79.5
65°	357.6	302.0	242.4	182.8	155.0	131.1	95.4	71.5	55.6	51.7	55.6
67.5°	290.1	246.3	194.7	147.0	123.2	103.3	71.5	51.7	39.7	35.8	39.7
70°	226.5	186.7	147.0	107.3	91.4	75.5	51.7	39.7	27.8	23.8	27.8
72.5°	162.9	135.1	103.3	75.5	63.6	51.7	35.8	27.8	19.9	15.9	19.9
75°	111.3	91.4	67.5	47.7	39.7	35.8	23.8	15.9	11.9	11.9	11.9
77.5°	71.5	55.6	43.7	31.8	23.8	19.9	11.9	7.9	7.9	7.9	7.9
80°	39.7	31.8	23.8	15.9	11.9	11.9	7.9	7.9	4.0	4.0	4.0
82.5°	23.8	15.9	11.9	7.9	7.9	4.0	4.0	4.0	4.0	4.0	4.0
85°	11.9	7.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	4.0	4.0	4.0	4.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3429.0	3433.0	3421.1	3437.0	3425.0	3440.9	3440.9	3425.0	3429.0	3421.1	3437.0
5°	3421.1	3421.1	3413.1	3425.0	3409.1	3425.0	3421.1	3393.3	3401.2	3385.3	3401.2
7.5°	3421.1	3413.1	3401.2	3413.1	3393.3	3405.2	3389.3	3361.5	3353.5	3333.7	3333.7
10°	3433.0	3421.1	3405.2	3409.1	3389.3	3393.3	3369.4	3329.7	3317.8	3293.9	3286.0
12.5°	3460.8	3448.9	3425.0	3433.0	3405.2	3405.2	3373.4	3325.7	3301.9	3270.1	3262.1
15°	3500.5	3480.7	3452.9	3456.8	3429.0	3413.1	3373.4	3317.8	3286.0	3242.3	3230.3
17.5°	3508.5	3488.6	3452.9	3452.9	3417.1	3397.2	3349.5	3286.0	3246.2	3202.5	3178.7
20°	3464.8	3444.9	3405.2	3401.2	3369.4	3341.6	3289.9	3226.4	3186.6	3139.0	3119.1
22.5°	3373.4	3349.5	3313.8	3309.8	3278.0	3262.1	3206.5	3142.9	3103.2	3055.5	3039.6
25°	3238.3	3226.4	3190.6	3186.6	3158.8	3139.0	3091.3	3031.7	2995.9	2948.2	2932.3
27.5°	3079.4	3067.4	3031.7	3031.7	2999.9	2988.0	2944.3	2888.6	2860.8	2817.1	2797.3
30°	2888.6	2872.7	2852.9	2848.9	2821.1	2809.2	2769.4	2717.8	2690.0	2654.2	2646.3
32.5°	2662.2	2650.2	2638.3	2634.3	2606.5	2594.6	2566.8	2515.1	2491.3	2459.5	2447.6
35°	2399.9	2392.0	2380.0	2376.1	2364.2	2352.2	2324.4	2284.7	2272.8	2248.9	2237.0
37.5°	2097.9	2105.9	2097.9	2097.9	2086.0	2090.0	2066.2	2042.3	2030.4	2014.5	2006.6
40°	1772.1	1788.0	1799.9	1799.9	1796.0	1811.9	1807.9	1788.0	1784.0	1776.1	1772.1
42.5°	1442.3	1450.3	1474.1	1490.0	1486.0	1525.8	1529.7	1545.6	1557.6	1549.6	1553.6
45°	1096.6	1120.5	1152.3	1168.2	1188.0	1239.7	1267.5	1299.3	1327.1	1343.0	1339.0
47.5°	790.7	818.5	854.3	878.1	913.9	977.4	1049.0	1088.7	1128.4	1148.3	1168.2
50°	572.2	600.0	643.7	679.4	703.3	790.7	866.2	917.8	961.6	989.4	1009.2
52.5°	401.3	433.1	480.8	512.6	548.3	631.8	719.2	778.8	826.5	862.2	882.1
55°	278.1	313.9	357.6	389.4	429.1	516.5	600.0	663.6	715.2	747.0	770.8
57.5°	194.7	226.5	270.2	298.0	337.7	421.2	504.6	568.2	619.8	651.6	679.4
60°	131.1	162.9	206.6	234.4	266.2	349.7	425.2	492.7	540.4	572.2	600.0
62.5°	91.4	119.2	162.9	190.7	218.5	290.1	361.6	421.2	468.9	504.6	528.5
65°	71.5	95.4	131.1	155.0	182.8	242.4	302.0	353.6	401.3	437.1	453.0
67.5°	51.7	75.5	103.3	123.2	143.0	194.7	246.3	286.1	329.8	357.6	377.5
70°	35.8	51.7	75.5	91.4	107.3	147.0	186.7	222.5	254.3	274.2	290.1
72.5°	27.8	35.8	51.7	63.6	75.5	103.3	135.1	162.9	186.7	202.6	218.5
75°	15.9	23.8	35.8	43.7	51.7	71.5	91.4	111.3	127.1	139.1	147.0
77.5°	7.9	11.9	19.9	23.8	31.8	43.7	59.6	71.5	83.4	91.4	99.3
80°	7.9	7.9	11.9	11.9	15.9	23.8	31.8	39.7	47.7	55.6	59.6
82.5°	4.0	4.0	7.9	7.9	7.9	11.9	15.9	23.8	27.8	31.8	35.8
85°	4.0	4.0	4.0	4.0	4.0	7.9	7.9	11.9	15.9	19.9	19.9
87.5°	0.0	0.0	4.0	4.0	4.0	4.0	4.0	7.9	7.9	7.9	11.9
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: P252623

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3425.0	3433.0	3429.0	3437.0	3425.0	3421.1	3429.0	3417.1
5°	3381.3	3385.3	3381.3	3381.3	3373.4	3365.4	3373.4	3361.5
7.5°	3313.8	3313.8	3301.9	3301.9	3286.0	3278.0	3278.0	3274.1
10°	3258.2	3246.2	3234.3	3238.3	3214.5	3206.5	3202.5	3198.6
12.5°	3230.3	3222.4	3202.5	3202.5	3178.7	3170.7	3166.8	3162.8
15°	3198.6	3182.7	3166.8	3162.8	3142.9	3135.0	3131.0	3123.1
17.5°	3142.9	3131.0	3111.1	3111.1	3091.3	3087.3	3079.4	3075.4
20°	3083.3	3067.4	3051.5	3051.5	3027.7	3027.7	3015.8	3019.8
22.5°	2999.9	2988.0	2972.1	2972.1	2952.2	2948.2	2936.3	2932.3
25°	2900.6	2884.7	2872.7	2868.8	2852.9	2844.9	2841.0	2833.0
27.5°	2769.4	2757.5	2745.6	2737.7	2717.8	2713.8	2701.9	2705.9
30°	2606.5	2598.6	2594.6	2586.7	2562.8	2554.9	2554.9	2543.0
32.5°	2427.7	2415.8	2407.9	2395.9	2376.1	2372.1	2360.2	2364.2
35°	2209.2	2193.3	2181.4	2185.4	2161.5	2157.5	2149.6	2153.6
37.5°	1982.7	1966.8	1950.9	1947.0	1927.1	1927.1	1915.2	1915.2
40°	1748.3	1732.4	1724.4	1724.4	1700.6	1704.6	1692.7	1688.7
42.5°	1537.7	1521.8	1517.8	1513.9	1501.9	1498.0	1486.0	1490.0
45°	1339.0	1335.1	1335.1	1327.1	1315.2	1311.2	1315.2	1315.2
47.5°	1164.2	1168.2	1164.2	1164.2	1156.3	1164.2	1156.3	1160.2
50°	1017.2	1025.1	1025.1	1025.1	1021.2	1025.1	1025.1	1029.1
52.5°	894.0	905.9	902.0	905.9	902.0	909.9	905.9	909.9
55°	786.7	794.7	798.6	802.6	802.6	802.6	802.6	802.6
57.5°	687.4	699.3	703.3	707.3	707.3	715.2	707.3	707.3
60°	607.9	619.8	623.8	627.8	627.8	631.8	623.8	627.8
62.5°	536.4	548.3	548.3	552.3	552.3	552.3	544.4	548.3
65°	464.9	468.9	472.8	472.8	468.9	468.9	464.9	468.9
67.5°	385.4	389.4	385.4	385.4	381.4	381.4	373.5	377.5
70°	298.0	298.0	302.0	298.0	294.0	298.0	294.0	290.1
72.5°	222.5	222.5	222.5	218.5	218.5	214.6	218.5	218.5
75°	151.0	151.0	155.0	155.0	155.0	155.0	151.0	151.0
77.5°	99.3	99.3	99.3	99.3	103.3	99.3	99.3	99.3
80°	63.6	63.6	67.5	67.5	63.6	63.6	63.6	63.6
82.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
85°	23.8	23.8	23.8	23.8	19.9	19.9	19.9	19.9
87.5°	11.9	11.9	11.9	11.9	11.9	11.9	7.9	7.9
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)