

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: P252626

Luminaire Tested: **LD6B60D010TE EU6B60708050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252626
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 EU6B60708050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6163.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

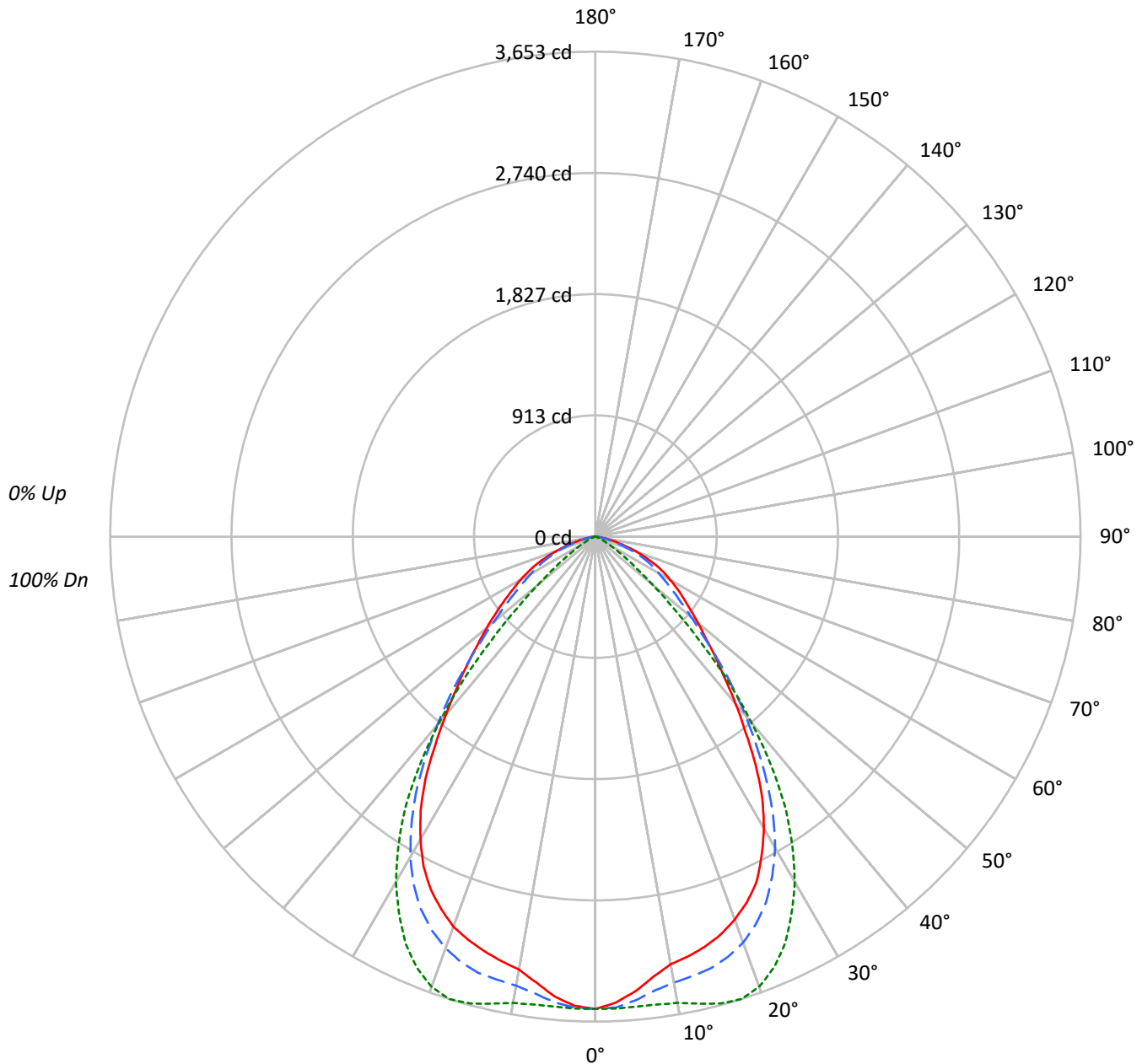
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	105	102	109	106	103	100	102	99	97		98	96	94		94
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86
3	96	88	81	76	94	86	80	76	84	79	74		81	77	73		79
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61
7	73	61	54	49	72	61	53	48	59	53	48		58	52	48		57
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	232139	232139	232139
5°	225213	232757	227905
10°	216648	236264	219371
15°	215878	245887	218377
20°	213053	250467	217052
25°	206684	243403	211125
30°	191204	226219	198330
35°	167738	198863	177567
40°	139782	155896	148895
45°	117655	102856	125627
50°	101872	56361	108134
55°	92178	29949	94510
60°	84800	15566	84800
65°	76831	8259	74932
70°	61994	4712	57282
75°	42524	3100	39399
80°	27802	1540	24721
85°	18489	3069	15420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.8	5.4
10°-20°	959.4	15.6
20°-30°	1417.6	23.0
30°-40°	1431.8	23.2
40°-50°	986.9	16.0
50°-60°	566.8	9.2
60°-70°	329.9	5.4
70°-80°	120.4	2.0
80°-90°	18.4	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°	2708.8	44.0
0°-40°	4140.6	67.2
0°-60°	5694.3	92.4
0°-90°	6163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6163.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3558	3558	3558	3558	3558	
5°	3439	3505	3554	3521	3480	323
15°	3196	3365	3640	3402	3233	900
25°	2871	3040	3381	3102	2933	1308
35°	2106	2250	2497	2353	2230	1307
45°	1275	1292	1115	1374	1362	992
55°	810	712	263	740	831	730
65°	498	420	54	416	485	487
75°	169	136	12	132	156	190
85°	25	12	4	16	21	31
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°	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2
2.5°	3513.0	3517.1	3521.2	3517.1	3521.2	3537.6	3525.3	3533.5	3533.5	3537.6	3550.0
5°	3438.9	3438.9	3447.1	3443.0	3455.4	3471.8	3459.5	3471.8	3475.9	3484.2	3504.7
7.5°	3344.3	3344.3	3348.4	3348.4	3364.9	3381.3	3373.1	3389.6	3406.0	3422.5	3447.1
10°	3270.3	3278.5	3278.5	3282.6	3299.1	3319.6	3315.5	3336.1	3352.5	3377.2	3410.1
12.5°	3237.4	3241.5	3241.5	3249.7	3266.1	3286.7	3282.6	3303.2	3327.8	3356.6	3389.6
15°	3196.2	3204.4	3200.3	3208.6	3225.0	3245.6	3241.5	3262.0	3290.8	3319.6	3364.9
17.5°	3142.7	3146.9	3151.0	3151.0	3167.4	3183.9	3183.9	3204.4	3237.4	3270.3	3319.6
20°	3068.7	3076.9	3076.9	3081.0	3093.4	3118.1	3113.9	3134.5	3167.4	3200.3	3253.8
22.5°	2982.3	2986.4	2986.4	2990.5	3011.1	3023.4	3027.6	3044.0	3072.8	3109.8	3159.2
25°	2871.2	2875.4	2871.2	2883.6	2891.8	2916.5	2908.3	2928.8	2961.7	2990.5	3039.9
27.5°	2710.8	2719.0	2719.0	2723.2	2743.7	2764.3	2764.3	2784.9	2813.7	2834.2	2883.6
30°	2538.1	2550.4	2538.1	2558.6	2566.8	2583.3	2595.6	2608.0	2632.7	2661.5	2706.7
32.5°	2340.6	2336.5	2340.6	2348.8	2373.5	2385.8	2394.1	2406.4	2431.1	2455.8	2492.8
35°	2106.1	2114.4	2118.5	2134.9	2134.9	2155.5	2159.6	2167.8	2204.9	2221.3	2250.1
37.5°	1859.3	1867.5	1871.7	1879.9	1896.3	1904.6	1916.9	1929.2	1953.9	1982.7	1999.2
40°	1641.3	1641.3	1645.4	1653.6	1666.0	1670.1	1682.4	1698.9	1715.3	1740.0	1756.5
42.5°	1435.6	1439.7	1435.6	1443.9	1456.2	1472.6	1468.5	1489.1	1493.2	1509.7	1522.0
45°	1275.2	1275.2	1267.0	1275.2	1275.2	1291.6	1287.5	1295.8	1291.6	1299.9	1291.6
47.5°	1123.0	1127.1	1123.0	1127.1	1127.1	1127.1	1131.2	1123.0	1127.1	1114.8	1090.1
50°	1003.7	1007.8	999.6	1003.7	999.6	995.5	999.6	987.2	983.1	966.7	942.0
52.5°	900.9	896.8	892.6	892.6	892.6	888.5	884.4	872.1	859.7	843.3	814.5
55°	810.4	806.3	802.1	802.1	793.9	789.8	789.8	777.5	765.1	744.5	711.6
57.5°	728.1	724.0	719.9	719.9	715.8	707.5	707.5	695.2	678.7	654.1	625.3
60°	649.9	649.9	649.9	645.8	645.8	637.6	637.6	625.3	608.8	584.1	551.2
62.5°	580.0	575.9	575.9	575.9	575.9	571.8	567.7	559.4	543.0	518.3	489.5
65°	497.7	497.7	497.7	497.7	493.6	493.6	493.6	481.3	473.1	448.4	419.6
67.5°	407.2	407.2	407.2	407.2	403.1	407.2	407.2	399.0	390.8	366.1	341.4
70°	325.0	320.9	316.7	320.9	316.7	316.7	320.9	312.6	308.5	287.9	263.3
72.5°	238.6	242.7	238.6	238.6	238.6	234.5	238.6	234.5	226.2	209.8	193.3
75°	168.7	172.8	172.8	168.7	168.7	168.7	164.5	164.5	156.3	144.0	135.7
77.5°	115.2	115.2	115.2	115.2	111.1	111.1	111.1	107.0	102.8	94.6	86.4
80°	74.0	74.0	74.0	74.0	69.9	69.9	69.9	65.8	65.8	57.6	49.4
82.5°	45.2	45.2	45.2	45.2	45.2	45.2	41.1	41.1	37.0	32.9	28.8
85°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	20.6	20.6	16.5	12.3
87.5°	8.2	8.2	12.3	12.3	12.3	12.3	12.3	12.3	8.2	8.2	8.2
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°	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2
2.5°	3541.8	3545.9	3545.9	3545.9	3558.2	3562.3	3550.0	3537.6	3562.3	3558.2	3566.4
5°	3500.6	3513.0	3521.2	3525.3	3537.6	3545.9	3533.5	3529.4	3550.0	3554.1	3558.2
7.5°	3451.3	3471.8	3492.4	3500.6	3517.1	3525.3	3521.2	3521.2	3545.9	3554.1	3554.1
10°	3418.3	3447.1	3471.8	3492.4	3513.0	3525.3	3525.3	3529.4	3558.2	3566.4	3574.7
12.5°	3410.1	3447.1	3480.0	3508.8	3525.3	3545.9	3550.0	3562.3	3591.1	3603.5	3603.5
15°	3389.6	3438.9	3480.0	3517.1	3541.8	3566.4	3574.7	3599.3	3632.3	3640.5	3648.7
17.5°	3352.5	3401.9	3451.3	3496.5	3529.4	3550.0	3574.7	3599.3	3640.5	3652.8	3656.9
20°	3286.7	3344.3	3393.7	3438.9	3471.8	3500.6	3525.3	3554.1	3591.1	3607.6	3611.7
22.5°	3188.0	3245.6	3294.9	3344.3	3377.2	3401.9	3426.6	3459.5	3496.5	3513.0	3513.0
25°	3068.7	3122.2	3175.6	3212.7	3245.6	3274.4	3286.7	3323.7	3360.8	3381.3	3381.3
27.5°	2916.5	2965.9	3015.2	3056.4	3076.9	3101.6	3122.2	3155.1	3183.9	3200.3	3216.8
30°	2723.2	2772.5	2817.8	2858.9	2883.6	2908.3	2928.8	2953.5	2982.3	3002.9	3007.0
32.5°	2513.4	2554.5	2599.8	2640.9	2665.6	2673.8	2694.4	2719.0	2743.7	2760.2	2764.3
35°	2283.0	2311.8	2340.6	2377.6	2402.3	2402.3	2422.9	2439.3	2459.9	2496.9	2488.7
37.5°	2011.5	2052.7	2073.2	2085.6	2102.0	2118.5	2122.6	2143.2	2167.8	2176.1	2188.4
40°	1756.5	1768.8	1781.2	1781.2	1797.6	1797.6	1797.6	1801.7	1826.4	1830.5	1847.0
42.5°	1501.4	1501.4	1489.1	1476.8	1480.9	1476.8	1456.2	1456.2	1468.5	1485.0	1485.0
45°	1262.9	1234.1	1197.0	1168.2	1147.7	1139.4	1114.8	1114.8	1110.7	1114.8	1131.2
47.5°	1061.3	1011.9	950.2	892.6	872.1	855.6	818.6	802.1	793.9	798.0	806.3
50°	892.6	839.2	769.2	699.3	662.3	641.7	596.5	567.7	563.6	555.3	571.8
52.5°	769.2	703.4	629.4	547.1	510.1	477.2	427.8	403.1	386.7	386.7	390.8
55°	662.3	592.3	510.1	427.8	390.8	366.1	316.7	283.8	267.4	263.3	275.6
57.5°	571.8	506.0	423.7	341.4	304.4	275.6	226.2	197.4	185.1	176.9	181.0
60°	501.9	436.0	353.8	275.6	242.7	209.8	168.7	135.7	119.3	119.3	123.4
62.5°	436.0	374.3	300.3	226.2	197.4	168.7	123.4	94.6	82.3	78.2	82.3
65°	370.2	312.6	250.9	189.2	160.4	135.7	98.7	74.0	57.6	53.5	57.6
67.5°	300.3	255.0	201.6	152.2	127.5	107.0	74.0	53.5	41.1	37.0	41.1
70°	234.5	193.3	152.2	111.1	94.6	78.2	53.5	41.1	28.8	24.7	28.8
72.5°	168.7	139.9	107.0	78.2	65.8	53.5	37.0	28.8	20.6	16.5	20.6
75°	115.2	94.6	69.9	49.4	41.1	37.0	24.7	16.5	12.3	12.3	12.3
77.5°	74.0	57.6	45.2	32.9	24.7	20.6	12.3	8.2	8.2	8.2	8.2
80°	41.1	32.9	24.7	16.5	12.3	12.3	8.2	8.2	4.1	4.1	4.1
82.5°	24.7	16.5	12.3	8.2	8.2	4.1	4.1	4.1	4.1	4.1	4.1
85°	12.3	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	4.1	4.1	4.1	4.1	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°	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2
2.5°	3550.0	3554.1	3541.8	3558.2	3545.9	3562.3	3562.3	3545.9	3550.0	3541.8	3558.2
5°	3541.8	3541.8	3533.5	3545.9	3529.4	3545.9	3541.8	3513.0	3521.2	3504.7	3521.2
7.5°	3541.8	3533.5	3521.2	3533.5	3513.0	3525.3	3508.8	3480.0	3471.8	3451.3	3451.3
10°	3554.1	3541.8	3525.3	3529.4	3508.8	3513.0	3488.3	3447.1	3434.8	3410.1	3401.9
12.5°	3582.9	3570.5	3545.9	3554.1	3525.3	3525.3	3492.4	3443.0	3418.3	3385.4	3377.2
15°	3624.0	3603.5	3574.7	3578.8	3550.0	3533.5	3492.4	3434.8	3401.9	3356.6	3344.3
17.5°	3632.3	3611.7	3574.7	3574.7	3537.6	3517.1	3467.7	3401.9	3360.8	3315.5	3290.8
20°	3587.0	3566.4	3525.3	3521.2	3488.3	3459.5	3406.0	3340.2	3299.1	3249.7	3229.1
22.5°	3492.4	3467.7	3430.7	3426.6	3393.7	3377.2	3319.6	3253.8	3212.7	3163.3	3146.9
25°	3352.5	3340.2	3303.2	3299.1	3270.3	3249.7	3200.3	3138.6	3101.6	3052.2	3035.8
27.5°	3188.0	3175.6	3138.6	3138.6	3105.7	3093.4	3048.1	2990.5	2961.7	2916.5	2895.9
30°	2990.5	2974.1	2953.5	2949.4	2920.6	2908.3	2867.1	2813.7	2784.9	2747.8	2739.6
32.5°	2756.1	2743.7	2731.4	2727.3	2698.5	2686.1	2657.3	2603.9	2579.2	2546.3	2533.9
35°	2484.6	2476.3	2464.0	2459.9	2447.6	2435.2	2406.4	2365.3	2352.9	2328.3	2315.9
37.5°	2171.9	2180.2	2171.9	2171.9	2159.6	2163.7	2139.0	2114.4	2102.0	2085.6	2077.3
40°	1834.6	1851.1	1863.4	1863.4	1859.3	1875.8	1871.7	1851.1	1847.0	1838.7	1834.6
42.5°	1493.2	1501.4	1526.1	1542.6	1538.5	1579.6	1583.7	1600.2	1612.5	1604.3	1608.4
45°	1135.3	1160.0	1192.9	1209.4	1229.9	1283.4	1312.2	1345.1	1373.9	1390.4	1386.3
47.5°	818.6	847.4	884.4	909.1	946.1	1011.9	1086.0	1127.1	1168.2	1188.8	1209.4
50°	592.3	621.1	666.4	703.4	728.1	818.6	896.8	950.2	995.5	1024.3	1044.8
52.5°	415.5	448.4	497.7	530.6	567.7	654.1	744.5	806.3	855.6	892.6	913.2
55°	287.9	325.0	370.2	403.1	444.3	534.8	621.1	687.0	740.4	773.3	798.0
57.5°	201.6	234.5	279.7	308.5	349.7	436.0	522.4	588.2	641.7	674.6	703.4
60°	135.7	168.7	213.9	242.7	275.6	362.0	440.1	510.1	559.4	592.3	621.1
62.5°	94.6	123.4	168.7	197.4	226.2	300.3	374.3	436.0	485.4	522.4	547.1
65°	74.0	98.7	135.7	160.4	189.2	250.9	312.6	366.1	415.5	452.5	468.9
67.5°	53.5	78.2	107.0	127.5	148.1	201.6	255.0	296.2	341.4	370.2	390.8
70°	37.0	53.5	78.2	94.6	111.1	152.2	193.3	230.4	263.3	283.8	300.3
72.5°	28.8	37.0	53.5	65.8	78.2	107.0	139.9	168.7	193.3	209.8	226.2
75°	16.5	24.7	37.0	45.2	53.5	74.0	94.6	115.2	131.6	144.0	152.2
77.5°	8.2	12.3	20.6	24.7	32.9	45.2	61.7	74.0	86.4	94.6	102.8
80°	8.2	8.2	12.3	12.3	16.5	24.7	32.9	41.1	49.4	57.6	61.7
82.5°	4.1	4.1	8.2	8.2	8.2	12.3	16.5	24.7	28.8	32.9	37.0
85°	4.1	4.1	4.1	4.1	4.1	8.2	8.2	12.3	16.5	20.6	20.6
87.5°	0.0	0.0	4.1	4.1	4.1	4.1	4.1	8.2	8.2	8.2	12.3
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: P252626

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2	3558.2
2.5°	3545.9	3554.1	3550.0	3558.2	3545.9	3541.8	3550.0	3537.6
5°	3500.6	3504.7	3500.6	3500.6	3492.4	3484.2	3492.4	3480.0
7.5°	3430.7	3430.7	3418.3	3418.3	3401.9	3393.7	3393.7	3389.6
10°	3373.1	3360.8	3348.4	3352.5	3327.8	3319.6	3315.5	3311.4
12.5°	3344.3	3336.1	3315.5	3315.5	3290.8	3282.6	3278.5	3274.4
15°	3311.4	3294.9	3278.5	3274.4	3253.8	3245.6	3241.5	3233.2
17.5°	3253.8	3241.5	3220.9	3220.9	3200.3	3196.2	3188.0	3183.9
20°	3192.1	3175.6	3159.2	3159.2	3134.5	3134.5	3122.2	3126.3
22.5°	3105.7	3093.4	3076.9	3076.9	3056.4	3052.2	3039.9	3035.8
25°	3002.9	2986.4	2974.1	2970.0	2953.5	2945.3	2941.2	2932.9
27.5°	2867.1	2854.8	2842.5	2834.2	2813.7	2809.5	2797.2	2801.3
30°	2698.5	2690.3	2686.1	2677.9	2653.2	2645.0	2645.0	2632.7
32.5°	2513.4	2501.0	2492.8	2480.5	2459.9	2455.8	2443.4	2447.6
35°	2287.1	2270.7	2258.3	2262.4	2237.8	2233.6	2225.4	2229.5
37.5°	2052.7	2036.2	2019.7	2015.6	1995.1	1995.1	1982.7	1982.7
40°	1810.0	1793.5	1785.3	1785.3	1760.6	1764.7	1752.4	1748.3
42.5°	1591.9	1575.5	1571.4	1567.3	1554.9	1550.8	1538.5	1542.6
45°	1386.3	1382.1	1382.1	1373.9	1361.6	1357.5	1361.6	1361.6
47.5°	1205.3	1209.4	1205.3	1205.3	1197.0	1205.3	1197.0	1201.2
50°	1053.1	1061.3	1061.3	1061.3	1057.2	1061.3	1061.3	1065.4
52.5°	925.5	937.9	933.8	937.9	933.8	942.0	937.9	942.0
55°	814.5	822.7	826.8	830.9	830.9	830.9	830.9	830.9
57.5°	711.6	724.0	728.1	732.2	732.2	740.4	732.2	732.2
60°	629.4	641.7	645.8	649.9	649.9	654.1	645.8	649.9
62.5°	555.3	567.7	567.7	571.8	571.8	571.8	563.6	567.7
65°	481.3	485.4	489.5	489.5	485.4	485.4	481.3	485.4
67.5°	399.0	403.1	399.0	399.0	394.9	394.9	386.7	390.8
70°	308.5	308.5	312.6	308.5	304.4	308.5	304.4	300.3
72.5°	230.4	230.4	230.4	226.2	226.2	222.1	226.2	226.2
75°	156.3	156.3	160.4	160.4	160.4	160.4	156.3	156.3
77.5°	102.8	102.8	102.8	102.8	107.0	102.8	102.8	102.8
80°	65.8	65.8	69.9	69.9	65.8	65.8	65.8	65.8
82.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
85°	24.7	24.7	24.7	24.7	20.6	20.6	20.6	20.6
87.5°	12.3	12.3	12.3	12.3	12.3	12.3	8.2	8.2
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)