

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: P252728

Luminaire Tested: **LD6B60D010TE EU6B60708035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60708035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5718.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

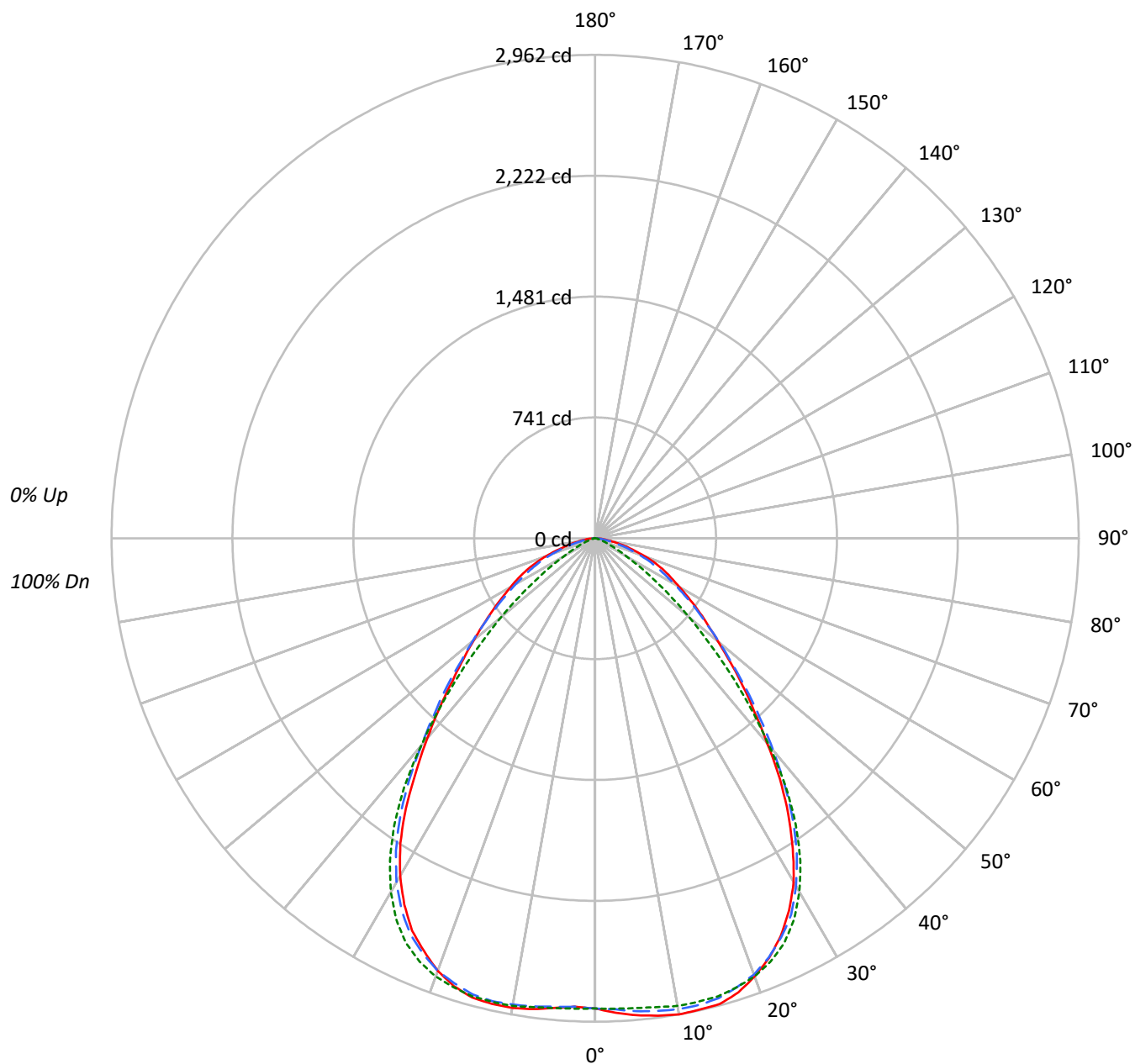
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252728

CATALOG NUMBER: LD6B60D010TE EU6B60708035 6LBDW1H

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	107	104	101	109	105	102	99	101	98	96		97	95	93		94
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85
3	95	87	80	75	93	85	79	74	82	77	73		80	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	82	71	64	58	80	70	63	58	68	62	57		66	61	56		65
6	77	65	57	52	75	64	57	51	63	56	51		61	55	51		59
7	72	60	52	47	70	59	52	46	58	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	47	42		52	46	42		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	187952	187952	187952
5°	192134	189200	189200
10°	196244	192739	193547
15°	199533	196230	196777
20°	198313	198313	195765
25°	193589	197110	190955
30°	183256	188477	179881
35°	164210	170701	160969
40°	139510	141239	136035
45°	118052	107903	113919
50°	99669	76102	98431
55°	87594	49126	86673
60°	77623	29241	78158
65°	71706	17614	71706
70°	62185	10110	60621
75°	49305	6151	46230
80°	36744	4584	35204
85°	33535	3069	30466



TEST NUMBER: P252728

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	4.9
10°-20°	820.9	14.4
20°-30°	1234.5	21.6
30°-40°	1298.0	22.7
40°-50°	969.6	17.0
50°-60°	603.7	10.6
60°-70°	343.3	6.0
70°-80°	141.4	2.5
80°-90°	29.2	0.5
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°	2332.8	40.8
0°-40°	3630.8	63.5
0°-60°	5204.1	91.0
0°-90°	5718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5718.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2881	2881	2881	2881	2881	
5°	2934	2909	2889	2881	2889	281
15°	2954	2918	2905	2893	2913	831
25°	2689	2698	2738	2677	2653	1231
35°	2062	2115	2143	2082	2021	1279
45°	1280	1308	1170	1284	1235	991
55°	770	754	432	742	762	693
65°	464	416	114	416	464	457
75°	196	155	24	151	183	212
85°	45	28	4	24	41	50
90°	0	0	0	0	0	



TEST NUMBER: P252728

CATALOG NUMBER: LD6B60D010TE EU6B60708035 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9
2.5°	2909.4	2905.3	2909.4	2901.2	2897.1	2897.1	2901.2	2893.1	2889.0	2893.1	2889.0
5°	2933.8	2925.7	2929.7	2925.7	2917.5	2917.5	2921.6	2909.4	2909.4	2913.4	2909.4
7.5°	2950.1	2950.1	2950.1	2942.0	2937.9	2933.8	2942.0	2929.7	2925.7	2925.7	2921.6
10°	2962.3	2958.3	2962.3	2954.2	2946.0	2942.0	2950.1	2942.0	2933.8	2942.0	2929.7
12.5°	2958.3	2958.3	2958.3	2954.2	2946.0	2942.0	2950.1	2937.9	2933.8	2937.9	2929.7
15°	2954.2	2942.0	2946.0	2942.0	2929.7	2929.7	2933.8	2921.6	2913.4	2925.7	2917.5
17.5°	2917.5	2909.4	2913.4	2905.3	2897.1	2893.1	2897.1	2893.1	2884.9	2893.1	2884.9
20°	2856.4	2856.4	2860.5	2852.3	2844.2	2840.1	2848.3	2840.1	2832.0	2844.2	2844.2
22.5°	2783.1	2783.1	2783.1	2779.0	2774.9	2774.9	2774.9	2770.8	2766.8	2774.9	2779.0
25°	2689.3	2685.3	2689.3	2693.4	2689.3	2685.3	2689.3	2689.3	2681.2	2697.5	2697.5
27.5°	2571.2	2571.2	2579.3	2575.2	2575.2	2571.2	2579.3	2579.3	2575.2	2587.5	2599.7
30°	2432.6	2424.5	2432.6	2432.6	2436.7	2436.7	2440.8	2440.8	2440.8	2453.0	2461.2
32.5°	2253.3	2257.4	2269.6	2265.6	2261.5	2273.7	2273.7	2281.9	2285.9	2294.1	2298.2
35°	2061.8	2065.9	2065.9	2070.0	2078.1	2070.0	2090.3	2086.3	2090.3	2106.6	2114.8
37.5°	1858.1	1845.9	1866.2	1858.1	1862.2	1862.2	1870.3	1874.4	1886.6	1907.0	1907.0
40°	1638.1	1642.1	1650.3	1654.3	1658.4	1658.4	1658.4	1670.6	1674.7	1699.2	1695.1
42.5°	1446.5	1446.5	1454.7	1458.8	1458.8	1458.8	1458.8	1471.0	1479.1	1487.3	1495.4
45°	1279.5	1267.2	1275.4	1275.4	1283.5	1279.5	1287.6	1295.8	1299.8	1312.1	1308.0
47.5°	1120.6	1116.5	1120.6	1124.6	1120.6	1124.6	1128.7	1132.8	1136.9	1136.9	1136.9
50°	982.0	982.0	986.1	990.2	990.2	990.2	990.2	994.2	994.2	1002.4	994.2
52.5°	867.9	872.0	872.0	867.9	872.0	872.0	876.1	876.1	872.0	872.0	859.8
55°	770.1	766.1	770.1	766.1	770.1	770.1	766.1	766.1	762.0	757.9	753.8
57.5°	676.4	676.4	676.4	676.4	672.3	676.4	672.3	668.3	668.3	660.1	647.9
60°	594.9	594.9	594.9	594.9	594.9	590.8	594.9	590.8	582.7	574.5	558.2
62.5°	525.6	521.6	525.6	521.6	521.6	517.5	517.5	513.4	505.3	497.1	480.8
65°	464.5	468.6	464.5	464.5	460.4	456.4	456.4	452.3	440.1	431.9	415.6
67.5°	399.3	395.3	395.3	395.3	391.2	391.2	391.2	383.0	374.9	362.7	346.4
70°	326.0	326.0	326.0	321.9	321.9	317.8	317.8	313.8	305.6	297.5	277.1
72.5°	256.7	256.7	256.7	248.6	252.6	248.6	248.6	240.4	236.3	224.1	211.9
75°	195.6	195.6	191.5	191.5	187.4	183.4	183.4	179.3	175.2	167.1	154.8
77.5°	142.6	142.6	142.6	138.5	134.5	130.4	130.4	126.3	122.2	118.2	110.0
80°	97.8	97.8	97.8	97.8	93.7	89.6	89.6	85.6	85.6	81.5	73.3
82.5°	65.2	65.2	65.2	65.2	61.1	61.1	61.1	57.0	53.0	53.0	44.8
85°	44.8	44.8	40.7	40.7	40.7	40.7	36.7	36.7	32.6	28.5	28.5
87.5°	24.4	24.4	24.4	24.4	20.4	20.4	20.4	20.4	16.3	16.3	12.2
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: P252728

CATALOG NUMBER: LD6B60D010TE EU6B60708035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9
2.5°	2901.2	2901.2	2897.1	2884.9	2889.0	2884.9	2889.0	2884.9	2872.7	2884.9	2872.7
5°	2917.5	2921.6	2913.4	2897.1	2901.2	2897.1	2897.1	2893.1	2880.9	2889.0	2880.9
7.5°	2933.8	2929.7	2925.7	2909.4	2913.4	2909.4	2909.4	2901.2	2889.0	2897.1	2884.9
10°	2942.0	2942.0	2933.8	2917.5	2917.5	2913.4	2917.5	2913.4	2897.1	2909.4	2901.2
12.5°	2942.0	2937.9	2937.9	2917.5	2921.6	2917.5	2921.6	2913.4	2901.2	2909.4	2905.3
15°	2929.7	2929.7	2925.7	2905.3	2909.4	2909.4	2913.4	2905.3	2893.1	2905.3	2897.1
17.5°	2905.3	2905.3	2901.2	2884.9	2893.1	2893.1	2897.1	2889.0	2876.8	2884.9	2884.9
20°	2856.4	2860.5	2860.5	2848.3	2856.4	2856.4	2860.5	2856.4	2852.3	2856.4	2848.3
22.5°	2799.4	2807.5	2807.5	2795.3	2803.4	2803.4	2815.7	2811.6	2803.4	2807.5	2803.4
25°	2713.8	2721.9	2730.1	2721.9	2730.1	2730.1	2742.3	2738.2	2730.1	2738.2	2726.0
27.5°	2616.0	2620.1	2628.2	2620.1	2632.3	2628.2	2640.4	2636.4	2624.1	2636.4	2632.3
30°	2477.5	2493.7	2506.0	2493.7	2506.0	2506.0	2514.1	2510.0	2506.0	2501.9	2501.9
32.5°	2322.6	2338.9	2338.9	2334.8	2343.0	2343.0	2347.1	2338.9	2334.8	2338.9	2343.0
35°	2131.1	2139.2	2147.4	2143.3	2147.4	2151.5	2147.4	2151.5	2139.2	2143.3	2143.3
37.5°	1923.3	1931.4	1931.4	1919.2	1927.4	1927.4	1919.2	1919.2	1911.1	1919.2	1902.9
40°	1703.2	1695.1	1699.2	1691.0	1682.9	1682.9	1678.8	1662.5	1654.3	1658.4	1662.5
42.5°	1487.3	1487.3	1475.1	1454.7	1434.3	1434.3	1422.1	1413.9	1397.6	1405.8	1401.7
45°	1303.9	1283.5	1267.2	1234.7	1222.4	1214.3	1193.9	1173.5	1165.4	1169.5	1165.4
47.5°	1128.7	1112.4	1071.7	1026.8	1014.6	1002.4	977.9	953.5	945.3	937.2	937.2
50°	982.0	953.5	908.7	859.8	839.4	819.0	786.4	762.0	745.7	749.8	749.8
52.5°	847.5	815.0	762.0	700.9	676.4	652.0	623.4	594.9	582.7	578.6	578.6
55°	729.4	692.7	639.7	570.5	550.1	521.6	484.9	452.3	436.0	431.9	440.1
57.5°	623.4	590.8	529.7	460.4	436.0	407.5	370.8	342.3	321.9	317.8	321.9
60°	537.9	493.0	440.1	374.9	342.3	317.8	277.1	252.6	232.3	224.1	228.2
62.5°	452.3	411.6	358.6	293.4	268.9	244.5	207.8	179.3	163.0	158.9	163.0
65°	387.1	346.4	297.5	240.4	216.0	191.5	158.9	130.4	118.2	114.1	118.2
67.5°	321.9	285.2	244.5	191.5	171.1	150.8	118.2	97.8	81.5	77.4	81.5
70°	260.8	228.2	187.4	150.8	130.4	114.1	89.6	69.3	57.0	53.0	57.0
72.5°	195.6	171.1	142.6	110.0	97.8	85.6	65.2	48.9	40.7	36.7	40.7
75°	142.6	122.2	101.9	77.4	69.3	61.1	44.8	32.6	28.5	24.4	28.5
77.5°	97.8	85.6	69.3	53.0	44.8	40.7	28.5	24.4	20.4	16.3	16.3
80°	65.2	57.0	44.8	36.7	32.6	28.5	20.4	16.3	12.2	12.2	12.2
82.5°	40.7	32.6	28.5	20.4	16.3	16.3	12.2	8.1	8.1	8.1	8.1
85°	24.4	20.4	16.3	12.2	8.1	8.1	4.1	4.1	4.1	4.1	4.1
87.5°	12.2	8.1	8.1	4.1	4.1	4.1	4.1	4.1	0.0	0.0	4.1
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: P252728

CATALOG NUMBER: LD6B60D010TE EU6B60708035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9
2.5°	2880.9	2872.7	2872.7	2876.8	2880.9	2884.9	2876.8	2872.7	2872.7	2884.9	2876.8
5°	2880.9	2876.8	2876.8	2876.8	2884.9	2889.0	2880.9	2876.8	2880.9	2893.1	2889.0
7.5°	2893.1	2884.9	2889.0	2889.0	2893.1	2901.2	2893.1	2889.0	2893.1	2905.3	2897.1
10°	2901.2	2893.1	2897.1	2893.1	2905.3	2909.4	2901.2	2897.1	2901.2	2917.5	2913.4
12.5°	2905.3	2901.2	2901.2	2897.1	2909.4	2913.4	2905.3	2901.2	2905.3	2917.5	2913.4
15°	2897.1	2893.1	2893.1	2893.1	2901.2	2909.4	2897.1	2893.1	2893.1	2905.3	2901.2
17.5°	2880.9	2872.7	2872.7	2872.7	2876.8	2880.9	2868.6	2864.6	2860.5	2872.7	2868.6
20°	2852.3	2844.2	2836.0	2836.0	2840.1	2840.1	2832.0	2819.7	2819.7	2823.8	2815.7
22.5°	2799.4	2795.3	2787.1	2783.1	2791.2	2787.1	2770.8	2758.6	2754.5	2758.6	2750.5
25°	2726.0	2717.9	2713.8	2709.7	2713.8	2709.7	2693.4	2677.1	2677.1	2677.1	2664.9
27.5°	2624.1	2616.0	2611.9	2611.9	2616.0	2607.8	2591.5	2575.2	2567.1	2567.1	2554.9
30°	2493.7	2493.7	2489.7	2485.6	2481.5	2481.5	2457.1	2440.8	2432.6	2436.7	2428.6
32.5°	2334.8	2330.8	2326.7	2314.5	2318.5	2314.5	2294.1	2281.9	2269.6	2261.5	2257.4
35°	2131.1	2131.1	2127.0	2127.0	2127.0	2122.9	2102.6	2090.3	2082.2	2078.1	2065.9
37.5°	1907.0	1902.9	1898.8	1898.8	1898.8	1898.8	1886.6	1874.4	1874.4	1870.3	1862.2
40°	1654.3	1658.4	1662.5	1658.4	1670.6	1682.9	1666.6	1658.4	1654.3	1666.6	1650.3
42.5°	1409.9	1405.8	1426.2	1430.2	1430.2	1450.6	1454.7	1458.8	1454.7	1462.8	1462.8
45°	1173.5	1169.5	1189.8	1198.0	1218.4	1242.8	1255.0	1275.4	1283.5	1291.7	1283.5
47.5°	949.4	965.7	982.0	1002.4	1018.7	1059.4	1083.9	1104.3	1112.4	1124.6	1124.6
50°	762.0	778.3	806.8	823.1	843.5	892.4	933.1	961.6	977.9	990.2	986.1
52.5°	586.8	615.3	652.0	668.3	696.8	753.8	798.7	831.2	851.6	863.8	867.9
55°	452.3	476.7	513.4	537.9	566.4	627.5	684.6	721.2	741.6	757.9	766.1
57.5°	334.1	362.7	403.4	423.8	456.4	525.6	574.5	619.4	643.8	664.2	668.3
60°	244.5	273.0	309.7	334.1	366.7	436.0	493.0	533.8	562.3	578.6	586.8
62.5°	175.2	203.7	240.4	264.9	293.4	354.5	411.6	452.3	480.8	501.2	513.4
65°	126.3	154.8	191.5	211.9	236.3	293.4	346.4	387.1	415.6	440.1	448.2
67.5°	93.7	114.1	146.7	167.1	191.5	236.3	281.2	317.8	346.4	366.7	374.9
70°	69.3	85.6	114.1	126.3	142.6	183.4	220.0	252.6	277.1	293.4	301.5
72.5°	48.9	61.1	81.5	93.7	105.9	138.5	167.1	191.5	207.8	224.1	232.3
75°	32.6	40.7	57.0	65.2	73.3	97.8	118.2	138.5	150.8	163.0	167.1
77.5°	20.4	28.5	40.7	44.8	53.0	65.2	81.5	93.7	101.9	110.0	118.2
80°	12.2	16.3	24.4	28.5	32.6	44.8	53.0	61.1	69.3	77.4	81.5
82.5°	8.1	12.2	16.3	16.3	20.4	24.4	32.6	40.7	44.8	48.9	53.0
85°	4.1	4.1	8.1	8.1	12.2	12.2	16.3	20.4	24.4	28.5	32.6
87.5°	4.1	4.1	4.1	4.1	8.1	8.1	12.2	12.2	12.2	16.3	16.3
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: P252728

CATALOG NUMBER: LD6B60D010TE EU6B60708035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9
2.5°	2868.6	2880.9	2868.6	2876.8	2872.7	2872.7	2868.6	2872.7
5°	2880.9	2897.1	2880.9	2893.1	2884.9	2884.9	2884.9	2889.0
7.5°	2893.1	2909.4	2897.1	2909.4	2905.3	2901.2	2901.2	2909.4
10°	2905.3	2917.5	2909.4	2921.6	2917.5	2913.4	2913.4	2921.6
12.5°	2905.3	2921.6	2913.4	2925.7	2921.6	2917.5	2917.5	2921.6
15°	2893.1	2913.4	2901.2	2913.4	2909.4	2905.3	2905.3	2913.4
17.5°	2856.4	2872.7	2864.6	2872.7	2872.7	2868.6	2872.7	2876.8
20°	2807.5	2819.7	2811.6	2819.7	2819.7	2811.6	2815.7	2819.7
22.5°	2738.2	2750.5	2742.3	2750.5	2746.4	2742.3	2742.3	2738.2
25°	2652.7	2669.0	2656.7	2664.9	2656.7	2648.6	2648.6	2652.7
27.5°	2546.7	2558.9	2542.6	2550.8	2542.6	2534.5	2534.5	2530.4
30°	2408.2	2412.3	2400.0	2408.2	2400.0	2396.0	2387.8	2387.8
32.5°	2241.1	2245.2	2233.0	2233.0	2224.8	2224.8	2208.5	2220.7
35°	2045.5	2049.6	2045.5	2041.5	2029.2	2025.2	2021.1	2021.1
37.5°	1841.8	1841.8	1829.6	1825.5	1817.3	1809.2	1813.3	1801.0
40°	1634.0	1629.9	1617.7	1621.8	1617.7	1605.5	1601.4	1597.3
42.5°	1438.4	1438.4	1426.2	1430.2	1422.1	1418.0	1405.8	1409.9
45°	1267.2	1267.2	1255.0	1255.0	1250.9	1238.7	1242.8	1234.7
47.5°	1112.4	1112.4	1108.3	1108.3	1096.1	1092.0	1092.0	1092.0
50°	977.9	977.9	977.9	977.9	973.9	969.8	965.7	969.8
52.5°	863.8	872.0	867.9	867.9	863.8	859.8	855.7	855.7
55°	762.0	766.1	766.1	770.1	766.1	762.0	766.1	762.0
57.5°	672.3	680.5	680.5	680.5	680.5	680.5	676.4	672.3
60°	594.9	599.0	599.0	603.1	603.1	603.1	599.0	599.0
62.5°	517.5	525.6	529.7	529.7	533.8	529.7	529.7	529.7
65°	456.4	464.5	468.6	464.5	468.6	468.6	464.5	464.5
67.5°	383.0	391.2	391.2	391.2	391.2	395.3	391.2	391.2
70°	309.7	317.8	313.8	317.8	317.8	317.8	317.8	317.8
72.5°	236.3	240.4	244.5	244.5	248.6	244.5	244.5	244.5
75°	171.1	179.3	179.3	179.3	179.3	183.4	183.4	183.4
77.5°	122.2	126.3	126.3	130.4	130.4	130.4	130.4	134.5
80°	85.6	85.6	89.6	89.6	93.7	93.7	93.7	93.7
82.5°	57.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1
85°	32.6	36.7	36.7	36.7	36.7	40.7	40.7	40.7
87.5°	20.4	20.4	20.4	20.4	20.4	20.4	16.3	16.3
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)