

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: P252729

Luminaire Tested: **LD6B60D010TE EU6B60708040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252729
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 EU6B60708040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5775.0 lumens
Efficiency: N/A
Efficacy: 92.4 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

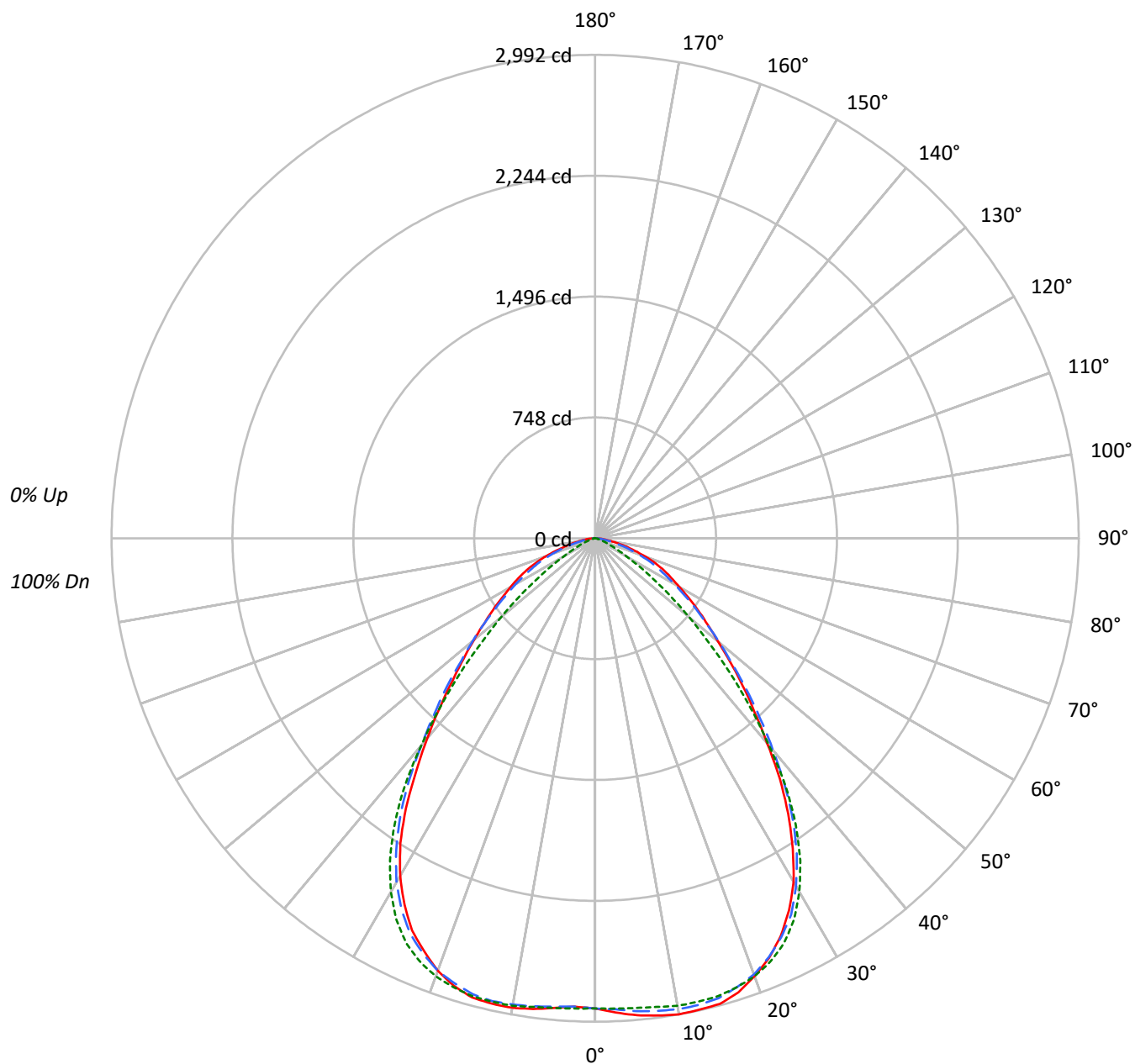
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252729

CATALOG NUMBER: LD6B60D010TE EU6B60708040 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°	189824	189824	189824
5°	194053	191086	191086
10°	198205	194660	195475
15°	201519	198189	198743
20°	200292	200292	197716
25°	195519	199075	192855
30°	185087	190352	181674
35°	165851	172406	162570
40°	140898	142652	137389
45°	119224	108973	115053
50°	100664	76853	99416
55°	88470	49615	87537
60°	78393	29528	78941
65°	72432	17784	72432
70°	62795	10205	61231
75°	49784	6226	46683
80°	37120	4621	35579
85°	33909	3069	30840



TEST NUMBER: P252729

CATALOG NUMBER: LD6B60D010TE EU6B60708040 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	4.9
10°-20°	829.0	14.4
20°-30°	1246.9	21.6
30°-40°	1310.9	22.7
40°-50°	979.3	17.0
50°-60°	609.7	10.6
60°-70°	346.7	6.0
70°-80°	142.8	2.5
80°-90°	29.5	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°	2356.0	40.8
0°-40°	3667.0	63.5
0°-60°	5256.0	91.0
0°-90°	5775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5775.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2910	2910	2910	2910	2910	
5°	2963	2938	2918	2910	2918	284
15°	2984	2947	2934	2922	2942	839
25°	2716	2724	2766	2704	2679	1243
35°	2082	2136	2165	2103	2041	1292
45°	1292	1321	1181	1296	1247	1001
55°	778	761	436	749	770	700
65°	469	420	115	420	469	462
75°	198	156	25	152	185	215
85°	45	29	4	25	41	50
90°	0	0	0	0	0	



TEST NUMBER: P252729

CATALOG NUMBER: LD6B60D010TE EU6B60708040 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6
2.5°	2938.4	2934.3	2938.4	2930.1	2926.0	2926.0	2930.1	2921.9	2917.8	2921.9	2917.8
5°	2963.1	2954.8	2959.0	2954.8	2946.6	2946.6	2950.7	2938.4	2938.4	2942.5	2938.4
7.5°	2979.5	2979.5	2979.5	2971.3	2967.2	2963.1	2971.3	2959.0	2954.8	2954.8	2950.7
10°	2991.9	2987.8	2991.9	2983.6	2975.4	2971.3	2979.5	2971.3	2963.1	2971.3	2959.0
12.5°	2987.8	2987.8	2987.8	2983.6	2975.4	2971.3	2979.5	2967.2	2963.1	2967.2	2959.0
15°	2983.6	2971.3	2975.4	2971.3	2959.0	2959.0	2963.1	2950.7	2942.5	2954.8	2946.6
17.5°	2946.6	2938.4	2942.5	2934.3	2926.0	2921.9	2926.0	2921.9	2913.7	2921.9	2913.7
20°	2884.9	2884.9	2889.0	2880.8	2872.5	2868.4	2876.6	2868.4	2860.2	2872.5	2872.5
22.5°	2810.8	2810.8	2810.8	2806.7	2802.6	2802.6	2802.6	2798.5	2794.3	2802.6	2806.7
25°	2716.1	2712.0	2716.1	2720.3	2716.1	2712.0	2716.1	2716.1	2707.9	2724.4	2724.4
27.5°	2596.8	2596.8	2605.0	2600.9	2600.9	2596.8	2605.0	2605.0	2600.9	2613.3	2625.6
30°	2456.9	2448.6	2456.9	2456.9	2461.0	2461.0	2465.1	2465.1	2465.1	2477.5	2485.7
32.5°	2275.8	2279.9	2292.3	2288.1	2284.0	2296.4	2296.4	2304.6	2308.7	2317.0	2321.1
35°	2082.4	2086.5	2086.5	2090.6	2098.8	2090.6	2111.2	2107.1	2111.2	2127.6	2135.9
37.5°	1876.6	1864.3	1884.8	1876.6	1880.7	1880.7	1889.0	1893.1	1905.4	1926.0	1926.0
40°	1654.4	1658.5	1666.7	1670.8	1675.0	1675.0	1675.0	1687.3	1691.4	1716.1	1712.0
42.5°	1461.0	1461.0	1469.2	1473.3	1473.3	1473.3	1473.3	1485.6	1493.9	1502.1	1510.3
45°	1292.2	1279.9	1288.1	1288.1	1296.3	1292.2	1300.5	1308.7	1312.8	1325.2	1321.0
47.5°	1131.7	1127.6	1131.7	1135.8	1131.7	1135.8	1140.0	1144.1	1148.2	1148.2	1148.2
50°	991.8	991.8	995.9	1000.0	1000.0	1000.0	1000.0	1004.2	1004.2	1012.4	1004.2
52.5°	876.6	880.7	880.7	876.6	880.7	880.7	884.8	884.8	880.7	880.7	868.3
55°	777.8	773.7	777.8	773.7	777.8	777.8	773.7	773.7	769.6	765.5	761.3
57.5°	683.2	683.2	683.2	683.2	679.0	683.2	679.0	674.9	674.9	666.7	654.3
60°	600.8	600.8	600.8	600.8	600.8	596.7	600.8	596.7	588.5	580.3	563.8
62.5°	530.9	526.8	530.9	526.8	526.8	522.7	522.7	518.5	510.3	502.1	485.6
65°	469.2	473.3	469.2	469.2	465.0	460.9	460.9	456.8	444.5	436.2	419.8
67.5°	403.3	399.2	399.2	399.2	395.1	395.1	395.1	386.8	378.6	366.3	349.8
70°	329.2	329.2	329.2	325.1	325.1	321.0	321.0	316.9	308.7	300.4	279.8
72.5°	259.3	259.3	259.3	251.0	255.2	251.0	251.0	242.8	238.7	226.3	214.0
75°	197.5	197.5	193.4	193.4	189.3	185.2	185.2	181.1	177.0	168.7	156.4
77.5°	144.0	144.0	144.0	139.9	135.8	131.7	131.7	127.6	123.5	119.3	111.1
80°	98.8	98.8	98.8	98.8	94.7	90.5	90.5	86.4	86.4	82.3	74.1
82.5°	65.8	65.8	65.8	65.8	61.7	61.7	61.7	57.6	53.5	53.5	45.3
85°	45.3	45.3	41.2	41.2	41.2	41.2	37.0	37.0	32.9	28.8	28.8
87.5°	24.7	24.7	24.7	24.7	20.6	20.6	20.6	20.6	16.5	16.5	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: P252729

CATALOG NUMBER: LD6B60D010TE EU6B60708040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6
2.5°	2930.1	2930.1	2926.0	2913.7	2917.8	2913.7	2917.8	2913.7	2901.3	2913.7	2901.3
5°	2946.6	2950.7	2942.5	2926.0	2930.1	2926.0	2926.0	2921.9	2909.6	2917.8	2909.6
7.5°	2963.1	2959.0	2954.8	2938.4	2942.5	2938.4	2938.4	2930.1	2917.8	2926.0	2913.7
10°	2971.3	2971.3	2963.1	2946.6	2946.6	2942.5	2946.6	2942.5	2926.0	2938.4	2930.1
12.5°	2971.3	2967.2	2967.2	2946.6	2950.7	2946.6	2950.7	2942.5	2930.1	2938.4	2934.3
15°	2959.0	2959.0	2954.8	2934.3	2938.4	2938.4	2942.5	2934.3	2921.9	2934.3	2926.0
17.5°	2934.3	2934.3	2930.1	2913.7	2921.9	2921.9	2926.0	2917.8	2905.5	2913.7	2913.7
20°	2884.9	2889.0	2889.0	2876.6	2884.9	2884.9	2889.0	2884.9	2880.8	2884.9	2876.6
22.5°	2827.3	2835.5	2835.5	2823.1	2831.4	2831.4	2843.7	2839.6	2831.4	2835.5	2831.4
25°	2740.8	2749.1	2757.3	2749.1	2757.3	2757.3	2769.6	2765.5	2757.3	2765.5	2753.2
27.5°	2642.1	2646.2	2654.4	2646.2	2658.5	2654.4	2666.8	2662.6	2650.3	2662.6	2658.5
30°	2502.1	2518.6	2531.0	2518.6	2531.0	2531.0	2539.2	2535.1	2531.0	2526.8	2526.8
32.5°	2345.8	2362.2	2362.2	2358.1	2366.3	2366.3	2370.5	2362.2	2358.1	2362.2	2366.3
35°	2152.3	2160.6	2168.8	2164.7	2168.8	2172.9	2168.8	2172.9	2160.6	2164.7	2164.7
37.5°	1942.5	1950.7	1950.7	1938.3	1946.6	1946.6	1938.3	1938.3	1930.1	1938.3	1921.9
40°	1720.2	1712.0	1716.1	1707.9	1699.6	1699.6	1695.5	1679.1	1670.8	1675.0	1679.1
42.5°	1502.1	1502.1	1489.8	1469.2	1448.6	1448.6	1436.3	1428.0	1411.6	1419.8	1415.7
45°	1316.9	1296.3	1279.9	1247.0	1234.6	1226.4	1205.8	1185.2	1177.0	1181.1	1177.0
47.5°	1140.0	1123.5	1082.3	1037.1	1024.7	1012.4	987.7	963.0	954.8	946.5	946.5
50°	991.8	963.0	917.7	868.3	847.8	827.2	794.3	769.6	753.1	757.2	757.2
52.5°	856.0	823.1	769.6	707.8	683.2	658.5	629.7	600.8	588.5	584.4	584.4
55°	736.7	699.6	646.1	576.2	555.6	526.8	489.7	456.8	440.3	436.2	444.5
57.5°	629.7	596.7	535.0	465.0	440.3	411.5	374.5	345.7	325.1	321.0	325.1
60°	543.2	498.0	444.5	378.6	345.7	321.0	279.8	255.2	234.6	226.3	230.5
62.5°	456.8	415.7	362.2	296.3	271.6	246.9	209.9	181.1	164.6	160.5	164.6
65°	391.0	349.8	300.4	242.8	218.1	193.4	160.5	131.7	119.3	115.2	119.3
67.5°	325.1	288.1	246.9	193.4	172.8	152.3	119.3	98.8	82.3	78.2	82.3
70°	263.4	230.5	189.3	152.3	131.7	115.2	90.5	70.0	57.6	53.5	57.6
72.5°	197.5	172.8	144.0	111.1	98.8	86.4	65.8	49.4	41.2	37.0	41.2
75°	144.0	123.5	102.9	78.2	70.0	61.7	45.3	32.9	28.8	24.7	28.8
77.5°	98.8	86.4	70.0	53.5	45.3	41.2	28.8	24.7	20.6	16.5	16.5
80°	65.8	57.6	45.3	37.0	32.9	28.8	20.6	16.5	12.3	12.3	12.3
82.5°	41.2	32.9	28.8	20.6	16.5	16.5	12.3	8.2	8.2	8.2	8.2
85°	24.7	20.6	16.5	12.3	8.2	8.2	4.1	4.1	4.1	4.1	4.1
87.5°	12.3	8.2	8.2	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: P252729

CATALOG NUMBER: LD6B60D010TE EU6B60708040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6
2.5°	2909.6	2901.3	2901.3	2905.5	2909.6	2913.7	2905.5	2901.3	2901.3	2913.7	2905.5
5°	2909.6	2905.5	2905.5	2905.5	2913.7	2917.8	2909.6	2905.5	2909.6	2921.9	2917.8
7.5°	2921.9	2913.7	2917.8	2917.8	2921.9	2930.1	2921.9	2917.8	2921.9	2934.3	2926.0
10°	2930.1	2921.9	2926.0	2921.9	2934.3	2938.4	2930.1	2926.0	2930.1	2946.6	2942.5
12.5°	2934.3	2930.1	2930.1	2926.0	2938.4	2942.5	2934.3	2930.1	2934.3	2946.6	2942.5
15°	2926.0	2921.9	2921.9	2921.9	2930.1	2938.4	2926.0	2921.9	2921.9	2934.3	2930.1
17.5°	2909.6	2901.3	2901.3	2901.3	2905.5	2909.6	2897.2	2893.1	2889.0	2901.3	2897.2
20°	2880.8	2872.5	2864.3	2864.3	2868.4	2868.4	2860.2	2847.8	2847.8	2852.0	2843.7
22.5°	2827.3	2823.1	2814.9	2810.8	2819.0	2814.9	2798.5	2786.1	2782.0	2786.1	2777.9
25°	2753.2	2745.0	2740.8	2736.7	2740.8	2736.7	2720.3	2703.8	2703.8	2703.8	2691.5
27.5°	2650.3	2642.1	2638.0	2638.0	2642.1	2633.8	2617.4	2600.9	2592.7	2592.7	2580.3
30°	2518.6	2518.6	2514.5	2510.4	2506.3	2506.3	2481.6	2465.1	2456.9	2461.0	2452.8
32.5°	2358.1	2354.0	2349.9	2337.5	2341.6	2337.5	2317.0	2304.6	2292.3	2284.0	2279.9
35°	2152.3	2152.3	2148.2	2148.2	2148.2	2144.1	2123.5	2111.2	2103.0	2098.8	2086.5
37.5°	1926.0	1921.9	1917.8	1917.8	1917.8	1917.8	1905.4	1893.1	1893.1	1889.0	1880.7
40°	1670.8	1675.0	1679.1	1675.0	1687.3	1699.6	1683.2	1675.0	1670.8	1683.2	1666.7
42.5°	1423.9	1419.8	1440.4	1444.5	1444.5	1465.1	1469.2	1473.3	1469.2	1477.4	1477.4
45°	1185.2	1181.1	1201.7	1209.9	1230.5	1255.2	1267.5	1288.1	1296.3	1304.6	1296.3
47.5°	958.9	975.3	991.8	1012.4	1028.8	1070.0	1094.7	1115.3	1123.5	1135.8	1135.8
50°	769.6	786.0	814.8	831.3	851.9	901.3	942.4	971.2	987.7	1000.0	995.9
52.5°	592.6	621.4	658.5	674.9	703.7	761.3	806.6	839.5	860.1	872.5	876.6
55°	456.8	481.5	518.5	543.2	572.0	633.8	691.4	728.4	749.0	765.5	773.7
57.5°	337.5	366.3	407.4	428.0	460.9	530.9	580.3	625.5	650.2	670.8	674.9
60°	246.9	275.7	312.8	337.5	370.4	440.3	498.0	539.1	567.9	584.4	592.6
62.5°	177.0	205.8	242.8	267.5	296.3	358.0	415.7	456.8	485.6	506.2	518.5
65°	127.6	156.4	193.4	214.0	238.7	296.3	349.8	391.0	419.8	444.5	452.7
67.5°	94.7	115.2	148.2	168.7	193.4	238.7	284.0	321.0	349.8	370.4	378.6
70°	70.0	86.4	115.2	127.6	144.0	185.2	222.2	255.2	279.8	296.3	304.5
72.5°	49.4	61.7	82.3	94.7	107.0	139.9	168.7	193.4	209.9	226.3	234.6
75°	32.9	41.2	57.6	65.8	74.1	98.8	119.3	139.9	152.3	164.6	168.7
77.5°	20.6	28.8	41.2	45.3	53.5	65.8	82.3	94.7	102.9	111.1	119.3
80°	12.3	16.5	24.7	28.8	32.9	45.3	53.5	61.7	70.0	78.2	82.3
82.5°	8.2	12.3	16.5	16.5	20.6	24.7	32.9	41.2	45.3	49.4	53.5
85°	4.1	4.1	8.2	8.2	12.3	12.3	16.5	20.6	24.7	28.8	32.9
87.5°	4.1	4.1	4.1	4.1	8.2	8.2	12.3	12.3	12.3	16.5	16.5
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: P252729

CATALOG NUMBER: LD6B60D010TE EU6B60708040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6	2909.6
2.5°	2897.2	2909.6	2897.2	2905.5	2901.3	2901.3	2897.2	2901.3
5°	2909.6	2926.0	2909.6	2921.9	2913.7	2913.7	2913.7	2917.8
7.5°	2921.9	2938.4	2926.0	2938.4	2934.3	2930.1	2930.1	2938.4
10°	2934.3	2946.6	2938.4	2950.7	2946.6	2942.5	2942.5	2950.7
12.5°	2934.3	2950.7	2942.5	2954.8	2950.7	2946.6	2946.6	2950.7
15°	2921.9	2942.5	2930.1	2942.5	2938.4	2934.3	2934.3	2942.5
17.5°	2884.9	2901.3	2893.1	2901.3	2901.3	2897.2	2901.3	2905.5
20°	2835.5	2847.8	2839.6	2847.8	2847.8	2839.6	2843.7	2847.8
22.5°	2765.5	2777.9	2769.6	2777.9	2773.8	2769.6	2769.6	2765.5
25°	2679.1	2695.6	2683.2	2691.5	2683.2	2675.0	2675.0	2679.1
27.5°	2572.1	2584.5	2568.0	2576.2	2568.0	2559.8	2559.8	2555.6
30°	2432.2	2436.3	2424.0	2432.2	2424.0	2419.8	2411.6	2411.6
32.5°	2263.5	2267.6	2255.2	2255.2	2247.0	2247.0	2230.5	2242.9
35°	2065.9	2070.0	2065.9	2061.8	2049.5	2045.3	2041.2	2041.2
37.5°	1860.1	1860.1	1847.8	1843.7	1835.5	1827.2	1831.3	1819.0
40°	1650.3	1646.1	1633.8	1637.9	1633.8	1621.5	1617.3	1613.2
42.5°	1452.7	1452.7	1440.4	1444.5	1436.3	1432.1	1419.8	1423.9
45°	1279.9	1279.9	1267.5	1267.5	1263.4	1251.1	1255.2	1247.0
47.5°	1123.5	1123.5	1119.4	1119.4	1107.0	1102.9	1102.9	1102.9
50°	987.7	987.7	987.7	987.7	983.6	979.5	975.3	979.5
52.5°	872.5	880.7	876.6	876.6	872.5	868.3	864.2	864.2
55°	769.6	773.7	773.7	777.8	773.7	769.6	773.7	769.6
57.5°	679.0	687.3	687.3	687.3	687.3	687.3	683.2	679.0
60°	600.8	605.0	605.0	609.1	609.1	609.1	605.0	605.0
62.5°	522.7	530.9	535.0	535.0	539.1	535.0	535.0	535.0
65°	460.9	469.2	473.3	469.2	473.3	473.3	469.2	469.2
67.5°	386.8	395.1	395.1	395.1	395.1	399.2	395.1	395.1
70°	312.8	321.0	316.9	321.0	321.0	321.0	321.0	321.0
72.5°	238.7	242.8	246.9	246.9	251.0	246.9	246.9	246.9
75°	172.8	181.1	181.1	181.1	181.1	185.2	185.2	185.2
77.5°	123.5	127.6	127.6	131.7	131.7	131.7	131.7	135.8
80°	86.4	86.4	90.5	90.5	94.7	94.7	94.7	94.7
82.5°	57.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7
85°	32.9	37.0	37.0	37.0	37.0	41.2	41.2	41.2
87.5°	20.6	20.6	20.6	20.6	20.6	20.6	16.5	16.5
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)