

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: P252415

Luminaire Tested: **LD6B60D010TE EU6B60708030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60708030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS 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: 5400.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

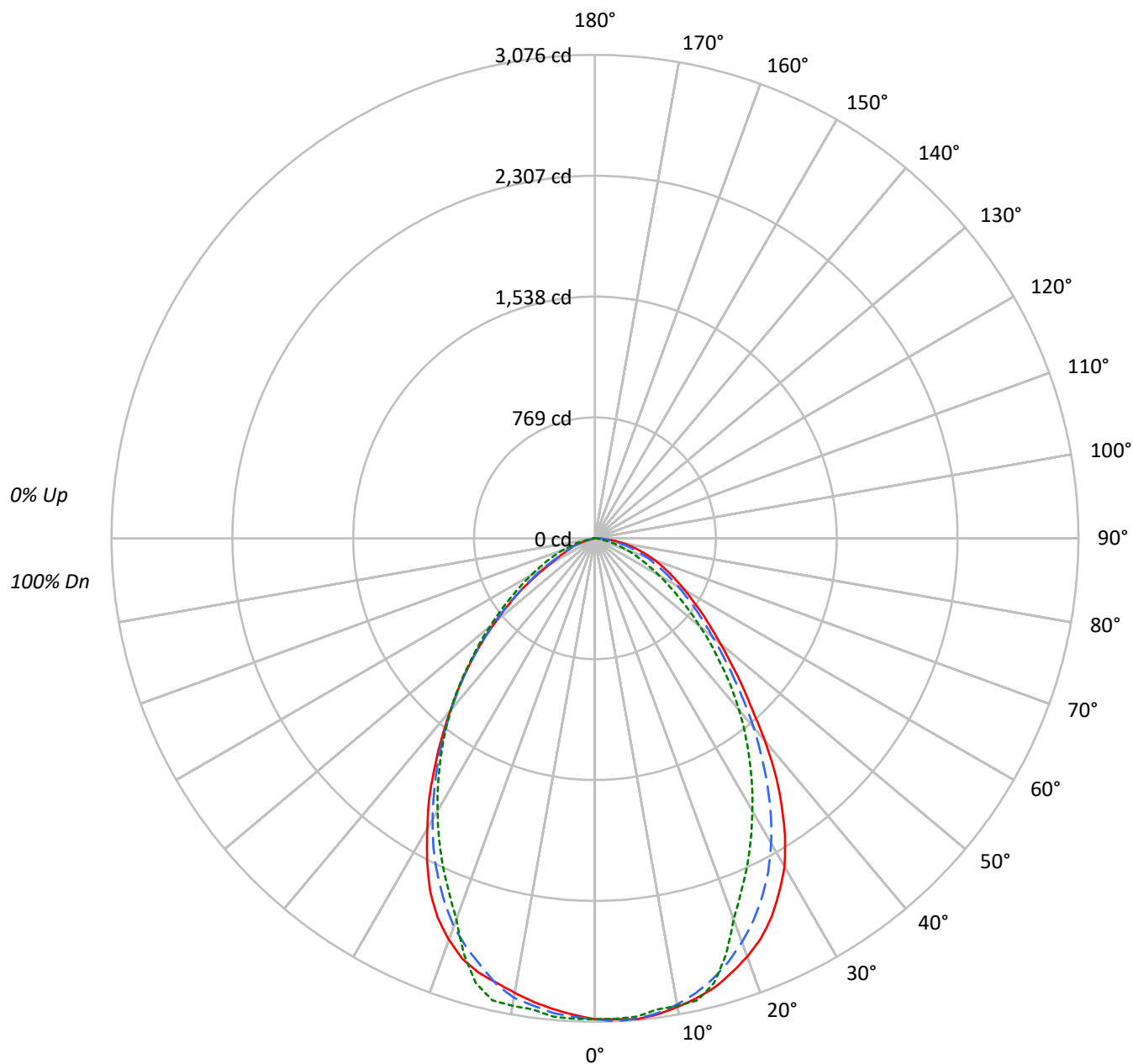
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54		
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48		
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44		
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	199617	199617	199617
5°	201159	200117	196993
10°	200589	200060	194535
15°	199681	197804	193238
20°	196702	179047	188704
25°	191358	165047	178487
30°	181704	150870	160746
35°	164887	136398	141464
40°	143146	121489	121829
45°	122084	104489	103391
50°	105668	88322	83481
55°	94464	73672	64629
60°	86065	61183	43555
65°	80351	50295	32511
70°	76548	40935	27296
75°	72117	29039	9024
80°	68679	14916	2968
85°	56516	8908	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.9	5.4
10°-20°	808.1	15.0
20°-30°	1115.5	20.7
30°-40°	1135.1	21.0
40°-50°	912.2	16.9
50°-60°	606.6	11.2
60°-70°	345.6	6.4
70°-80°	155.3	2.9
80°-90°	32.7	0.6
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°	2212.5	41.0
0°-40°	3347.6	62.0
0°-60°	4866.4	90.1
0°-90°	5400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5400.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3060	3060	3060	3060	3060	
5°	3072	3068	3056	3032	3008	292
15°	2956	2901	2929	2813	2861	832
25°	2658	2515	2293	2368	2480	1218
35°	2070	1911	1713	1744	1776	1287
45°	1323	1244	1132	1121	1121	1026
55°	830	775	648	576	568	746
65°	520	465	326	211	211	519
75°	286	238	115	48	36	305
85°	76	52	12	4	0	90
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°	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7
2.5°	3063.7	3079.6	3075.6	3071.6	3075.6	3071.6	3063.7	3063.7	3055.7	3055.7	3075.6
5°	3071.6	3079.6	3075.6	3071.6	3071.6	3075.6	3059.7	3059.7	3051.7	3047.8	3067.6
7.5°	3055.7	3067.6	3059.7	3059.7	3055.7	3059.7	3043.8	3043.8	3031.9	3027.9	3047.8
10°	3027.9	3043.8	3035.8	3035.8	3035.8	3027.9	3019.9	3016.0	3004.1	3000.1	3012.0
12.5°	2996.1	3008.0	3004.1	2996.1	2996.1	2996.1	2980.2	2976.2	2960.3	2952.4	2964.3
15°	2956.4	2964.3	2960.3	2956.4	2948.4	2948.4	2932.5	2924.6	2908.7	2892.8	2900.7
17.5°	2896.8	2908.7	2900.7	2896.8	2884.8	2884.8	2869.0	2861.0	2837.2	2821.3	2825.2
20°	2833.2	2837.2	2833.2	2825.2	2813.3	2809.3	2793.5	2777.6	2757.7	2737.8	2733.8
22.5°	2757.7	2761.7	2749.7	2741.8	2729.9	2725.9	2706.0	2694.1	2662.3	2638.5	2634.5
25°	2658.3	2662.3	2662.3	2642.5	2634.5	2626.6	2606.7	2586.8	2559.0	2527.2	2515.3
27.5°	2539.1	2551.1	2543.1	2523.2	2507.4	2503.4	2483.5	2467.6	2431.9	2404.0	2388.1
30°	2412.0	2408.0	2404.0	2392.1	2368.3	2364.3	2344.4	2324.6	2296.8	2261.0	2241.1
32.5°	2249.1	2249.1	2245.1	2233.2	2209.3	2201.4	2185.5	2161.6	2129.9	2102.0	2082.2
35°	2070.3	2074.2	2070.3	2046.4	2030.5	2022.6	2014.6	1986.8	1959.0	1927.2	1911.3
37.5°	1883.5	1871.6	1875.5	1855.7	1835.8	1843.8	1819.9	1808.0	1776.2	1752.4	1736.5
40°	1680.8	1688.8	1672.9	1664.9	1653.0	1641.1	1641.1	1621.2	1605.3	1577.5	1569.6
42.5°	1482.2	1494.1	1490.1	1482.2	1466.3	1470.2	1450.4	1442.4	1422.6	1410.6	1398.7
45°	1323.2	1323.2	1323.2	1315.3	1311.3	1303.3	1291.4	1279.5	1267.6	1251.7	1243.7
47.5°	1168.2	1168.2	1172.2	1164.3	1156.3	1152.3	1144.4	1144.4	1124.5	1108.6	1100.7
50°	1041.1	1041.1	1041.1	1033.1	1025.2	1025.2	1017.2	1009.3	997.4	985.5	977.5
52.5°	925.9	925.9	925.9	917.9	913.9	910.0	906.0	902.0	886.1	878.2	870.2
55°	830.5	826.5	826.5	822.5	814.6	814.6	810.6	802.7	790.7	778.8	774.9
57.5°	735.1	739.1	735.1	735.1	727.2	727.2	719.2	715.3	703.3	695.4	687.4
60°	659.6	659.6	659.6	655.6	647.7	651.7	643.7	639.8	627.8	615.9	608.0
62.5°	584.1	588.1	588.1	584.1	576.2	576.2	572.2	568.2	556.3	544.4	532.5
65°	520.5	520.5	520.5	516.6	512.6	512.6	508.6	504.6	492.7	476.8	464.9
67.5°	460.9	457.0	457.0	457.0	453.0	449.0	445.0	441.1	429.2	417.2	401.3
70°	401.3	401.3	401.3	397.4	389.4	393.4	389.4	385.4	373.5	361.6	349.7
72.5°	345.7	345.7	341.7	337.8	337.8	333.8	333.8	329.8	317.9	302.0	290.1
75°	286.1	286.1	286.1	286.1	278.2	282.1	274.2	270.2	262.3	250.3	238.4
77.5°	234.4	234.4	234.4	230.5	226.5	226.5	222.5	218.5	206.6	198.7	182.8
80°	182.8	182.8	182.8	182.8	178.8	174.8	170.9	166.9	158.9	147.0	135.1
82.5°	135.1	135.1	131.1	131.1	131.1	127.2	123.2	119.2	111.3	103.3	95.4
85°	75.5	79.5	79.5	71.5	75.5	71.5	71.5	63.6	63.6	55.6	51.7
87.5°	27.8	23.8	23.8	23.8	23.8	23.8	23.8	19.9	19.9	19.9	15.9
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°	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7
2.5°	3059.7	3055.7	3071.6	3071.6	3047.8	3059.7	3063.7	3055.7	3055.7	3059.7	3047.8
5°	3051.7	3043.8	3059.7	3063.7	3039.8	3051.7	3055.7	3047.8	3051.7	3055.7	3039.8
7.5°	3023.9	3023.9	3035.8	3039.8	3016.0	3027.9	3027.9	3019.9	3023.9	3023.9	3012.0
10°	2996.1	2984.2	2996.1	2996.1	2976.2	2980.2	2988.2	2984.2	3000.1	3019.9	3019.9
12.5°	2944.5	2932.5	2952.4	2952.4	2940.5	2956.4	2976.2	2988.2	3004.1	3012.0	2988.2
15°	2880.9	2884.8	2920.6	2948.4	2936.5	2960.3	2980.2	2972.3	2952.4	2928.6	2892.8
17.5°	2797.4	2785.5	2817.3	2833.2	2817.3	2825.2	2841.1	2825.2	2793.5	2773.6	2725.9
20°	2702.1	2670.3	2670.3	2662.3	2634.5	2634.5	2630.5	2602.7	2590.8	2578.9	2559.0
22.5°	2594.8	2559.0	2547.1	2523.2	2499.4	2495.4	2483.5	2455.7	2439.8	2431.9	2408.0
25°	2471.6	2439.8	2419.9	2396.1	2360.3	2352.4	2340.5	2312.6	2304.7	2292.8	2272.9
27.5°	2344.4	2304.7	2276.9	2253.0	2221.3	2217.3	2193.4	2173.6	2157.7	2149.7	2133.8
30°	2197.4	2153.7	2133.8	2102.0	2078.2	2070.3	2050.4	2022.6	2010.7	2002.7	1990.8
32.5°	2034.5	1998.7	1978.9	1951.0	1919.3	1923.2	1899.4	1875.5	1867.6	1859.7	1847.7
35°	1875.5	1839.8	1815.9	1792.1	1772.2	1764.3	1748.4	1728.5	1716.6	1712.6	1704.7
37.5°	1700.7	1672.9	1653.0	1629.2	1613.3	1605.3	1597.4	1577.5	1569.6	1569.6	1553.7
40°	1529.8	1506.0	1490.1	1478.2	1458.3	1454.3	1446.4	1434.5	1430.5	1426.5	1414.6
42.5°	1374.9	1343.1	1331.2	1323.2	1311.3	1303.3	1299.4	1291.4	1287.5	1283.5	1271.6
45°	1227.8	1200.0	1188.1	1180.2	1168.2	1164.3	1160.3	1148.4	1140.4	1132.5	1128.5
47.5°	1084.8	1064.9	1061.0	1041.1	1033.1	1025.2	1017.2	1009.3	1005.3	1001.4	985.5
50°	961.6	949.7	929.8	917.9	910.0	906.0	890.1	878.2	874.2	870.2	858.3
52.5°	850.4	834.5	822.5	802.7	798.7	790.7	782.8	766.9	759.0	755.0	743.1
55°	751.0	739.1	723.2	707.3	695.4	691.4	679.5	663.6	655.6	647.7	639.8
57.5°	667.6	647.7	631.8	615.9	608.0	596.0	584.1	576.2	564.3	552.3	540.4
60°	588.1	572.2	552.3	536.4	528.5	520.5	504.6	492.7	480.8	468.9	457.0
62.5°	512.6	496.7	476.8	460.9	453.0	445.0	429.2	417.2	405.3	393.4	377.5
65°	445.0	429.2	413.3	397.4	389.4	381.5	365.6	349.7	337.8	325.8	309.9
67.5°	389.4	369.5	353.7	337.8	329.8	321.9	306.0	294.0	278.2	266.2	250.3
70°	329.8	313.9	302.0	286.1	278.2	270.2	254.3	238.4	226.5	214.6	198.7
72.5°	278.2	258.3	246.4	230.5	222.5	218.5	202.7	190.7	178.8	162.9	151.0
75°	222.5	206.6	190.7	178.8	170.9	166.9	151.0	139.1	127.2	115.2	103.3
77.5°	170.9	158.9	143.1	131.1	123.2	119.2	103.3	91.4	79.5	71.5	59.6
80°	127.2	111.3	103.3	91.4	87.4	79.5	71.5	59.6	51.7	39.7	31.8
82.5°	87.4	75.5	67.6	59.6	55.6	51.7	43.7	35.8	27.8	23.8	19.9
85°	47.7	39.7	35.8	31.8	27.8	27.8	23.8	19.9	15.9	11.9	7.9
87.5°	15.9	11.9	11.9	11.9	11.9	7.9	7.9	7.9	4.0	4.0	4.0
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°	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7
2.5°	3055.7	3055.7	3055.7	3051.7	3051.7	3051.7	3047.8	3063.7	3047.8	3043.8	3055.7
5°	3051.7	3043.8	3043.8	3043.8	3043.8	3039.8	3035.8	3043.8	3031.9	3027.9	3027.9
7.5°	3027.9	3023.9	3023.9	3019.9	3016.0	3012.0	3008.0	3012.0	3000.1	2996.1	2996.1
10°	3031.9	3023.9	3023.9	3012.0	3004.1	2992.1	2980.2	2984.2	2968.3	2956.4	2956.4
12.5°	2984.2	2964.3	2952.4	2940.5	2932.5	2928.6	2912.7	2920.6	2904.7	2900.7	2900.7
15°	2876.9	2853.1	2833.2	2825.2	2825.2	2817.3	2805.4	2821.3	2813.3	2817.3	2837.2
17.5°	2710.0	2698.1	2686.2	2682.2	2686.2	2694.1	2702.1	2725.9	2725.9	2737.8	2757.7
20°	2563.0	2555.0	2563.0	2563.0	2567.0	2582.9	2598.7	2618.6	2626.6	2638.5	2666.3
22.5°	2419.9	2419.9	2427.9	2439.8	2435.8	2463.6	2467.6	2503.4	2503.4	2527.2	2551.1
25°	2280.9	2280.9	2288.8	2292.8	2300.7	2316.6	2332.5	2360.3	2368.3	2392.1	2412.0
27.5°	2145.8	2141.8	2141.8	2145.8	2153.7	2173.6	2181.5	2213.3	2225.2	2241.1	2261.0
30°	1994.8	1990.8	1998.7	2006.7	2002.7	2022.6	2034.5	2058.3	2066.3	2082.2	2098.1
32.5°	1851.7	1851.7	1851.7	1859.7	1859.7	1875.5	1875.5	1903.4	1903.4	1915.3	1931.2
35°	1704.7	1704.7	1708.7	1712.6	1716.6	1720.6	1724.5	1740.4	1744.4	1748.4	1756.3
37.5°	1565.6	1561.6	1565.6	1565.6	1557.7	1573.6	1573.6	1589.4	1577.5	1589.4	1593.4
40°	1422.6	1422.6	1418.6	1418.6	1418.6	1426.5	1418.6	1430.5	1422.6	1430.5	1426.5
42.5°	1275.5	1275.5	1267.6	1275.5	1271.6	1271.6	1271.6	1279.5	1267.6	1275.5	1279.5
45°	1128.5	1124.5	1124.5	1120.6	1120.6	1120.6	1124.5	1124.5	1120.6	1128.5	1128.5
47.5°	985.5	981.5	981.5	981.5	981.5	985.5	973.5	981.5	973.5	973.5	973.5
50°	862.3	858.3	854.3	850.4	846.4	846.4	842.4	842.4	834.5	830.5	826.5
52.5°	743.1	739.1	731.1	731.1	727.2	723.2	711.3	711.3	699.4	695.4	695.4
55°	635.8	623.9	619.9	611.9	611.9	604.0	596.0	588.1	576.2	568.2	568.2
57.5°	536.4	524.5	516.6	512.6	508.6	500.7	484.8	480.8	464.9	460.9	457.0
60°	449.0	437.1	425.2	417.2	413.3	401.3	385.4	377.5	369.5	357.6	345.7
62.5°	365.6	353.7	337.8	333.8	325.8	313.9	302.0	290.1	282.1	270.2	262.3
65°	294.0	282.1	270.2	262.3	254.3	242.4	230.5	218.5	210.6	206.6	202.7
67.5°	238.4	222.5	210.6	206.6	198.7	190.7	178.8	174.8	166.9	166.9	166.9
70°	186.8	174.8	162.9	158.9	155.0	147.0	139.1	139.1	139.1	139.1	139.1
72.5°	139.1	131.1	119.2	115.2	111.3	107.3	99.3	103.3	99.3	99.3	99.3
75°	87.4	79.5	71.5	67.6	63.6	59.6	55.6	51.7	47.7	43.7	43.7
77.5°	47.7	39.7	35.8	31.8	31.8	27.8	23.8	23.8	19.9	19.9	19.9
80°	27.8	23.8	19.9	15.9	15.9	11.9	11.9	11.9	11.9	7.9	7.9
82.5°	15.9	11.9	7.9	7.9	7.9	7.9	4.0	4.0	4.0	4.0	4.0
85°	7.9	7.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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: P252415

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7
2.5°	3035.8	3047.8	3035.8	3047.8	3047.8	3047.8	3047.8	3035.8
5°	3016.0	3023.9	3012.0	3019.9	3023.9	3019.9	3019.9	3008.0
7.5°	2980.2	2988.2	2976.2	2988.2	2992.1	2988.2	2984.2	2976.2
10°	2944.5	2948.4	2936.5	2944.5	2952.4	2952.4	2948.4	2936.5
12.5°	2888.8	2900.7	2888.8	2896.8	2904.7	2908.7	2908.7	2896.8
15°	2825.2	2845.1	2837.2	2849.1	2861.0	2865.0	2865.0	2861.0
17.5°	2761.7	2781.5	2769.6	2789.5	2801.4	2809.3	2813.3	2805.4
20°	2670.3	2694.1	2686.2	2702.1	2718.0	2729.9	2729.9	2718.0
22.5°	2551.1	2582.9	2578.9	2590.8	2610.7	2614.6	2622.6	2614.6
25°	2419.9	2443.8	2439.8	2451.7	2475.6	2475.6	2479.5	2479.5
27.5°	2268.9	2292.8	2288.8	2296.8	2312.6	2316.6	2320.6	2312.6
30°	2106.0	2117.9	2117.9	2129.9	2141.8	2145.8	2145.8	2133.8
32.5°	1927.2	1943.1	1951.0	1947.1	1959.0	1966.9	1963.0	1963.0
35°	1764.3	1768.3	1772.2	1776.2	1780.2	1788.1	1780.2	1776.2
37.5°	1589.4	1601.4	1593.4	1601.4	1609.3	1605.3	1601.4	1601.4
40°	1430.5	1434.5	1426.5	1434.5	1438.4	1438.4	1438.4	1430.5
42.5°	1271.6	1279.5	1271.6	1279.5	1279.5	1279.5	1279.5	1275.5
45°	1112.6	1120.6	1120.6	1124.5	1124.5	1120.6	1120.6	1120.6
47.5°	965.6	973.5	965.6	973.5	977.5	969.6	969.6	969.6
50°	826.5	822.5	822.5	826.5	826.5	826.5	826.5	822.5
52.5°	683.5	687.4	687.4	687.4	691.4	687.4	691.4	691.4
55°	560.3	560.3	560.3	564.3	560.3	560.3	564.3	568.2
57.5°	449.0	445.0	441.1	441.1	445.0	441.1	441.1	441.1
60°	345.7	341.7	337.8	337.8	337.8	337.8	337.8	333.8
62.5°	258.3	258.3	258.3	262.3	262.3	262.3	262.3	266.2
65°	206.6	206.6	206.6	206.6	206.6	206.6	206.6	210.6
67.5°	166.9	166.9	166.9	170.9	170.9	170.9	170.9	170.9
70°	139.1	139.1	143.1	139.1	143.1	143.1	143.1	143.1
72.5°	95.4	95.4	95.4	95.4	95.4	91.4	95.4	91.4
75°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	35.8
77.5°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
80°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	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)