

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: P252521

Luminaire Tested: **LD6B60D010TE EU6B60708040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60708040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 5252.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

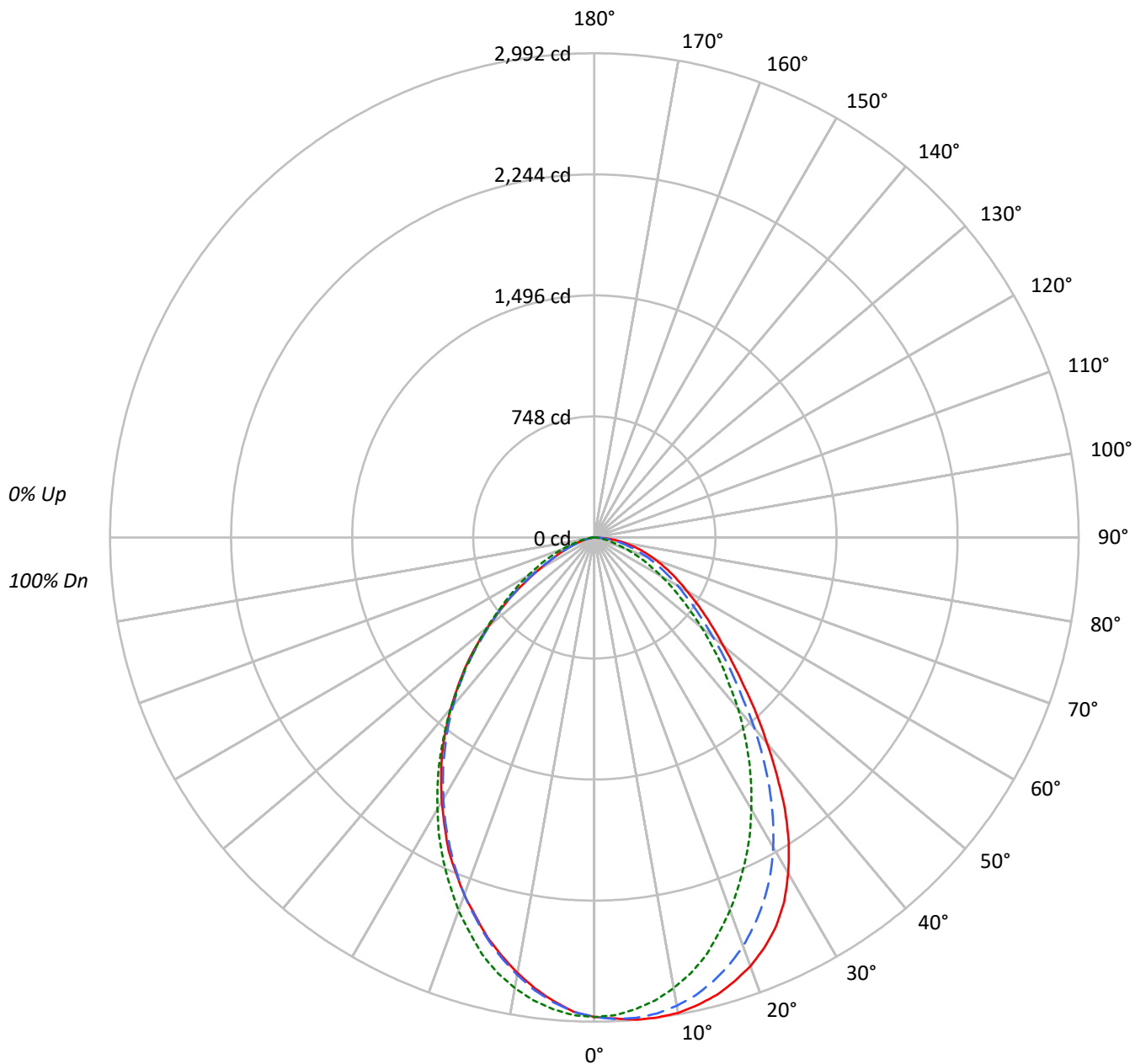
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	193301	193301	193301
5°	195926	191617	188382
10°	197648	187287	181020
15°	197621	180385	172604
20°	195710	170278	163134
25°	191070	158777	153443
30°	180423	146011	141981
35°	163549	132408	130768
40°	141239	117758	117409
45°	121115	102515	103271
50°	105252	87713	86455
55°	94555	73956	69270
60°	85909	62292	51005
65°	80675	51452	37482
70°	76930	40039	27468
75°	73655	29039	18678
80°	69581	20100	12361
85°	61606	12351	6138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	5.3
10°-20°	759.1	14.5
20°-30°	1053.8	20.1
30°-40°	1091.5	20.8
40°-50°	897.0	17.1
50°-60°	616.5	11.7
60°-70°	354.4	6.7
70°-80°	162.9	3.1
80°-90°	39.7	0.8
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°	2090.0	39.8
0°-40°	3181.6	60.6
0°-60°	4695.0	89.4
0°-90°	5252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5252.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2963	2963	2963	2963	2963	
5°	2992	2979	2926	2885	2876	285
15°	2926	2840	2671	2564	2556	824
25°	2654	2477	2206	2111	2132	1215
35°	2054	1885	1662	1613	1642	1273
45°	1313	1214	1111	1099	1119	1022
55°	831	753	650	613	609	748
65°	523	457	333	235	243	520
75°	292	230	115	74	74	309
85°	82	58	16	8	8	92
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°	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9
2.5°	2975.3	2999.9	2983.5	2979.4	2987.6	2987.6	2987.6	2975.3	2983.5	2971.1	2979.4
5°	2991.7	3012.3	2995.8	2987.6	2995.8	2999.9	2987.6	2979.4	2991.7	2975.3	2979.4
7.5°	2991.7	3012.3	2995.8	2991.7	2995.8	2995.8	2991.7	2975.3	2983.5	2967.0	2967.0
10°	2983.5	2999.9	2983.5	2975.3	2979.4	2975.3	2975.3	2954.7	2958.8	2938.2	2938.2
12.5°	2958.8	2979.4	2958.8	2950.6	2950.6	2950.6	2938.2	2921.8	2925.9	2901.2	2897.1
15°	2925.9	2942.3	2921.8	2913.5	2913.5	2909.4	2901.2	2876.5	2876.5	2851.8	2839.5
17.5°	2876.5	2892.9	2876.5	2864.1	2860.0	2851.8	2843.6	2818.9	2810.6	2781.8	2769.5
20°	2818.9	2831.2	2814.8	2802.4	2794.2	2786.0	2769.5	2744.8	2736.6	2707.8	2687.2
22.5°	2744.8	2761.3	2736.6	2724.2	2716.0	2703.7	2687.2	2662.5	2650.2	2613.1	2588.4
25°	2654.3	2662.5	2641.9	2629.6	2613.1	2604.9	2592.5	2559.6	2547.3	2506.1	2477.3
27.5°	2539.0	2547.3	2522.6	2514.4	2493.8	2485.5	2469.1	2440.3	2423.8	2382.7	2353.9
30°	2395.0	2403.2	2386.8	2374.4	2358.0	2341.5	2329.2	2300.4	2275.7	2234.5	2209.8
32.5°	2234.5	2246.9	2230.4	2213.9	2185.1	2189.3	2168.7	2139.9	2119.3	2082.3	2053.5
35°	2053.5	2061.7	2041.1	2037.0	2020.5	2004.1	1983.5	1962.9	1950.6	1909.4	1884.7
37.5°	1851.8	1872.4	1851.8	1835.4	1827.1	1814.8	1802.4	1773.6	1765.4	1740.7	1707.8
40°	1658.4	1670.7	1658.4	1641.9	1629.6	1629.6	1613.1	1596.7	1576.1	1551.4	1539.1
42.5°	1485.6	1477.3	1473.2	1465.0	1448.5	1444.4	1440.3	1419.7	1407.4	1382.7	1362.1
45°	1312.7	1316.8	1308.6	1304.5	1292.2	1283.9	1275.7	1259.2	1255.1	1230.4	1214.0
47.5°	1168.7	1164.6	1156.4	1156.4	1148.1	1139.9	1131.7	1119.3	1115.2	1094.6	1078.2
50°	1037.0	1041.1	1037.0	1032.9	1020.6	1016.4	1008.2	1000.0	991.8	971.2	954.7
52.5°	930.0	925.9	921.8	921.8	909.4	905.3	897.1	888.9	880.6	860.1	847.7
55°	831.3	831.3	827.1	823.0	810.7	806.6	802.5	794.2	781.9	765.4	753.1
57.5°	740.7	740.7	736.6	732.5	724.3	724.3	716.0	707.8	699.6	683.1	666.7
60°	658.4	662.5	658.4	654.3	646.1	646.1	642.0	629.6	625.5	604.9	592.6
62.5°	588.5	588.5	588.5	584.4	580.2	572.0	572.0	559.7	551.4	539.1	522.6
65°	522.6	522.6	522.6	518.5	510.3	506.2	502.0	493.8	485.6	473.2	456.8
67.5°	460.9	460.9	460.9	456.8	448.6	444.4	440.3	436.2	423.9	411.5	395.1
70°	403.3	403.3	399.2	395.1	390.9	386.8	382.7	374.5	366.2	349.8	337.4
72.5°	345.7	345.7	345.7	337.4	333.3	333.3	325.1	321.0	312.8	296.3	283.9
75°	292.2	288.1	288.1	283.9	279.8	275.7	271.6	267.5	255.1	246.9	230.4
77.5°	238.7	238.7	234.6	230.4	230.4	226.3	222.2	214.0	209.9	197.5	185.2
80°	185.2	185.2	185.2	185.2	181.1	177.0	177.0	168.7	164.6	152.3	144.0
82.5°	139.9	135.8	135.8	135.8	131.7	127.6	127.6	123.5	119.3	111.1	102.9
85°	82.3	78.2	78.2	78.2	74.1	74.1	70.0	70.0	65.8	57.6	57.6
87.5°	24.7	24.7	28.8	28.8	24.7	24.7	24.7	24.7	24.7	20.6	20.6
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°	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9
2.5°	2971.1	2983.5	2967.0	2962.9	2979.4	2971.1	2967.0	2958.8	2962.9	2954.7	2942.3
5°	2967.0	2983.5	2962.9	2950.6	2971.1	2958.8	2950.6	2942.3	2942.3	2925.9	2917.6
7.5°	2954.7	2962.9	2942.3	2930.0	2942.3	2930.0	2921.8	2909.4	2905.3	2884.7	2872.4
10°	2921.8	2930.0	2905.3	2888.8	2901.2	2884.7	2872.4	2860.0	2851.8	2827.1	2810.6
12.5°	2876.5	2880.6	2851.8	2831.2	2839.5	2827.1	2806.5	2790.1	2781.8	2757.1	2736.6
15°	2814.8	2818.9	2786.0	2757.1	2765.4	2748.9	2724.2	2707.8	2695.4	2670.7	2641.9
17.5°	2740.7	2736.6	2699.5	2670.7	2674.8	2654.3	2629.6	2604.9	2588.4	2559.6	2539.0
20°	2658.4	2646.0	2604.9	2572.0	2576.1	2551.4	2522.6	2497.9	2477.3	2452.6	2423.8
22.5°	2555.5	2539.0	2502.0	2460.9	2465.0	2444.4	2403.2	2382.7	2362.1	2329.2	2304.5
25°	2444.4	2419.7	2382.7	2341.5	2341.5	2316.8	2283.9	2259.2	2238.6	2205.7	2176.9
27.5°	2312.7	2300.4	2251.0	2218.1	2213.9	2189.3	2160.5	2131.6	2107.0	2078.1	2049.3
30°	2168.7	2148.1	2111.1	2074.0	2065.8	2045.2	2016.4	1983.5	1967.0	1938.2	1913.5
32.5°	2016.4	1995.8	1954.7	1917.7	1913.5	1897.1	1872.4	1839.5	1823.0	1802.4	1786.0
35°	1843.6	1835.4	1794.2	1765.4	1765.4	1748.9	1724.2	1695.4	1683.1	1662.5	1641.9
37.5°	1679.0	1666.6	1629.6	1604.9	1604.9	1584.3	1559.6	1547.3	1534.9	1518.5	1506.1
40°	1506.1	1497.9	1469.1	1444.4	1448.5	1432.1	1415.6	1399.1	1390.9	1382.7	1370.3
42.5°	1345.7	1337.4	1316.8	1296.3	1296.3	1283.9	1267.5	1255.1	1246.9	1234.5	1230.4
45°	1201.6	1189.3	1172.8	1152.2	1152.2	1139.9	1131.7	1123.4	1119.3	1111.1	1098.7
47.5°	1061.7	1053.5	1037.0	1016.4	1016.4	1016.4	1000.0	987.6	987.6	979.4	975.3
50°	942.4	930.0	917.7	901.2	901.2	893.0	880.6	868.3	868.3	864.2	856.0
52.5°	831.3	823.0	806.6	790.1	790.1	781.9	769.5	765.4	761.3	749.0	744.8
55°	736.6	728.4	716.0	695.5	691.3	687.2	674.9	666.7	662.5	650.2	650.2
57.5°	650.2	642.0	621.4	609.0	604.9	596.7	584.4	576.1	572.0	563.8	555.5
60°	576.1	563.8	547.3	530.9	526.7	518.5	506.2	497.9	493.8	477.4	469.1
62.5°	506.2	493.8	477.4	460.9	456.8	448.6	432.1	423.9	415.6	399.2	390.9
65°	440.3	428.0	411.5	395.1	386.8	382.7	366.2	353.9	345.7	333.3	316.9
67.5°	378.6	366.2	349.8	329.2	329.2	316.9	304.5	292.2	279.8	267.5	255.1
70°	321.0	308.6	292.2	275.7	271.6	263.4	251.0	234.6	226.3	209.9	197.5
72.5°	267.5	255.1	238.7	222.2	218.1	209.9	197.5	181.1	168.7	156.4	144.0
75°	218.1	205.8	189.3	177.0	172.8	164.6	152.3	135.8	123.5	115.2	102.9
77.5°	172.8	160.5	148.1	135.8	131.7	123.5	111.1	102.9	90.5	82.3	70.0
80°	131.7	123.5	111.1	102.9	98.8	90.5	82.3	70.0	61.7	53.5	49.4
82.5°	94.6	86.4	78.2	65.8	65.8	57.6	53.5	45.3	37.0	32.9	28.8
85°	53.5	45.3	41.2	37.0	32.9	32.9	28.8	24.7	20.6	16.5	16.5
87.5°	16.5	16.5	12.3	12.3	12.3	12.3	8.2	8.2	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9
2.5°	2942.3	2946.4	2938.2	2946.4	2938.2	2942.3	2934.1	2942.3	2934.1	2942.3	2925.9
5°	2913.5	2913.5	2901.2	2909.4	2901.2	2905.3	2888.8	2892.9	2884.7	2892.9	2876.5
7.5°	2864.1	2868.3	2847.7	2855.9	2843.6	2843.6	2831.2	2835.3	2823.0	2827.1	2814.8
10°	2806.5	2802.4	2781.8	2790.1	2773.6	2773.6	2761.3	2761.3	2744.8	2748.9	2732.5
12.5°	2724.2	2720.1	2695.4	2703.7	2687.2	2687.2	2674.8	2674.8	2658.4	2666.6	2650.2
15°	2629.6	2625.5	2600.8	2604.9	2588.4	2588.4	2572.0	2576.1	2563.7	2572.0	2555.5
17.5°	2522.6	2518.5	2493.8	2497.9	2477.3	2481.4	2469.1	2465.0	2456.7	2460.9	2448.5
20°	2411.5	2403.2	2378.6	2382.7	2374.4	2362.1	2353.9	2358.0	2349.7	2358.0	2345.6
22.5°	2296.3	2279.8	2259.2	2259.2	2251.0	2251.0	2238.6	2246.9	2230.4	2242.8	2234.5
25°	2164.6	2152.2	2135.8	2144.0	2127.5	2127.5	2115.2	2119.3	2111.1	2119.3	2111.1
27.5°	2037.0	2028.8	2004.1	2012.3	2000.0	2004.1	1991.7	1995.8	1991.7	2000.0	1991.7
30°	1901.2	1897.1	1880.6	1880.6	1876.5	1872.4	1868.3	1868.3	1864.2	1876.5	1868.3
32.5°	1773.6	1761.3	1744.8	1757.2	1736.6	1748.9	1740.7	1748.9	1740.7	1748.9	1744.8
35°	1641.9	1637.8	1617.3	1621.4	1617.3	1617.3	1613.1	1613.1	1613.1	1625.5	1625.5
37.5°	1502.0	1497.9	1485.6	1489.7	1481.5	1477.3	1477.3	1485.6	1485.6	1493.8	1493.8
40°	1366.2	1370.3	1358.0	1358.0	1353.9	1353.9	1353.9	1362.1	1358.0	1366.2	1362.1
42.5°	1230.4	1230.4	1218.1	1222.2	1218.1	1222.2	1222.2	1230.4	1230.4	1234.5	1230.4
45°	1102.9	1102.9	1098.7	1102.9	1094.6	1098.7	1094.6	1102.9	1098.7	1102.9	1102.9
47.5°	975.3	975.3	975.3	971.2	971.2	971.2	971.2	971.2	967.1	975.3	971.2
50°	856.0	860.1	856.0	856.0	851.8	856.0	851.8	851.8	843.6	847.7	847.7
52.5°	749.0	749.0	740.7	740.7	740.7	736.6	736.6	736.6	732.5	732.5	724.3
55°	646.1	646.1	637.8	637.8	633.7	629.6	625.5	625.5	613.2	613.2	600.8
57.5°	551.4	547.3	535.0	535.0	526.7	522.6	518.5	514.4	506.2	497.9	493.8
60°	465.0	456.8	448.6	444.4	436.2	428.0	419.7	411.5	403.3	399.2	395.1
62.5°	382.7	370.4	362.1	358.0	349.8	337.4	329.2	321.0	312.8	308.6	300.4
65°	308.6	296.3	283.9	279.8	271.6	263.4	251.0	242.8	234.6	230.4	230.4
67.5°	242.8	230.4	214.0	214.0	205.8	197.5	189.3	181.1	177.0	181.1	181.1
70°	181.1	172.8	160.5	156.4	148.1	139.9	135.8	135.8	135.8	139.9	135.8
72.5°	135.8	123.5	115.2	111.1	107.0	102.9	102.9	102.9	98.8	102.9	102.9
75°	94.6	86.4	78.2	78.2	74.1	74.1	74.1	74.1	74.1	74.1	74.1
77.5°	65.8	57.6	53.5	53.5	53.5	49.4	49.4	49.4	49.4	49.4	49.4
80°	41.2	41.2	37.0	37.0	32.9	32.9	32.9	32.9	32.9	32.9	32.9
82.5°	24.7	24.7	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
85°	12.3	12.3	12.3	12.3	12.3	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	4.1	4.1	4.1	4.1	4.1	8.2	8.2	8.2	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



TEST NUMBER: P252521

CATALOG NUMBER: LD6B60D010TE EU6B60708040 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9
2.5°	2925.9	2938.2	2921.8	2934.1	2930.0	2925.9	2917.6	2934.1
5°	2876.5	2880.6	2864.1	2880.6	2876.5	2868.3	2860.0	2876.5
7.5°	2806.5	2818.9	2798.3	2814.8	2810.6	2802.4	2794.2	2810.6
10°	2728.3	2740.7	2724.2	2736.6	2736.6	2728.3	2716.0	2732.5
12.5°	2641.9	2650.2	2633.7	2650.2	2646.0	2637.8	2633.7	2646.0
15°	2547.3	2559.6	2543.2	2555.5	2551.4	2547.3	2543.2	2555.5
17.5°	2444.4	2456.7	2444.4	2456.7	2456.7	2444.4	2440.3	2448.5
20°	2341.5	2349.7	2337.4	2349.7	2345.6	2345.6	2337.4	2349.7
22.5°	2226.3	2238.6	2230.4	2238.6	2234.5	2234.5	2230.4	2238.6
25°	2111.1	2123.4	2111.1	2123.4	2119.3	2119.3	2111.1	2131.6
27.5°	1995.8	2004.1	1991.7	2008.2	2004.1	1995.8	2000.0	2004.1
30°	1872.4	1880.6	1872.4	1884.7	1884.7	1884.7	1876.5	1884.7
32.5°	1748.9	1761.3	1748.9	1761.3	1757.2	1757.2	1753.1	1761.3
35°	1625.5	1629.6	1621.4	1633.7	1633.7	1637.8	1629.6	1641.9
37.5°	1497.9	1502.0	1497.9	1502.0	1510.3	1497.9	1506.1	1510.3
40°	1366.2	1374.5	1370.3	1374.5	1374.5	1378.6	1374.5	1378.6
42.5°	1234.5	1242.8	1234.5	1246.9	1242.8	1242.8	1246.9	1246.9
45°	1098.7	1111.1	1102.9	1111.1	1115.2	1111.1	1111.1	1119.3
47.5°	971.2	979.4	975.3	979.4	979.4	979.4	979.4	987.6
50°	843.6	847.7	847.7	851.8	851.8	856.0	847.7	851.8
52.5°	716.0	724.3	724.3	724.3	720.2	724.3	724.3	724.3
55°	600.8	604.9	596.7	604.9	604.9	600.8	600.8	609.0
57.5°	489.7	489.7	489.7	489.7	489.7	485.6	489.7	489.7
60°	386.8	390.9	386.8	386.8	386.8	386.8	382.7	390.9
62.5°	300.4	300.4	296.3	300.4	300.4	300.4	304.5	304.5
65°	234.6	238.7	234.6	238.7	238.7	238.7	238.7	242.8
67.5°	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2
70°	139.9	139.9	139.9	144.0	139.9	139.9	139.9	144.0
72.5°	102.9	102.9	102.9	102.9	102.9	102.9	107.0	107.0
75°	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
77.5°	49.4	49.4	49.4	53.5	49.4	53.5	49.4	49.4
80°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
82.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
85°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1
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)