

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: P252418

Luminaire Tested: **LD6B60D010TE EU6B60708050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252418
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 EU6B60708050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS 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: 5591.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

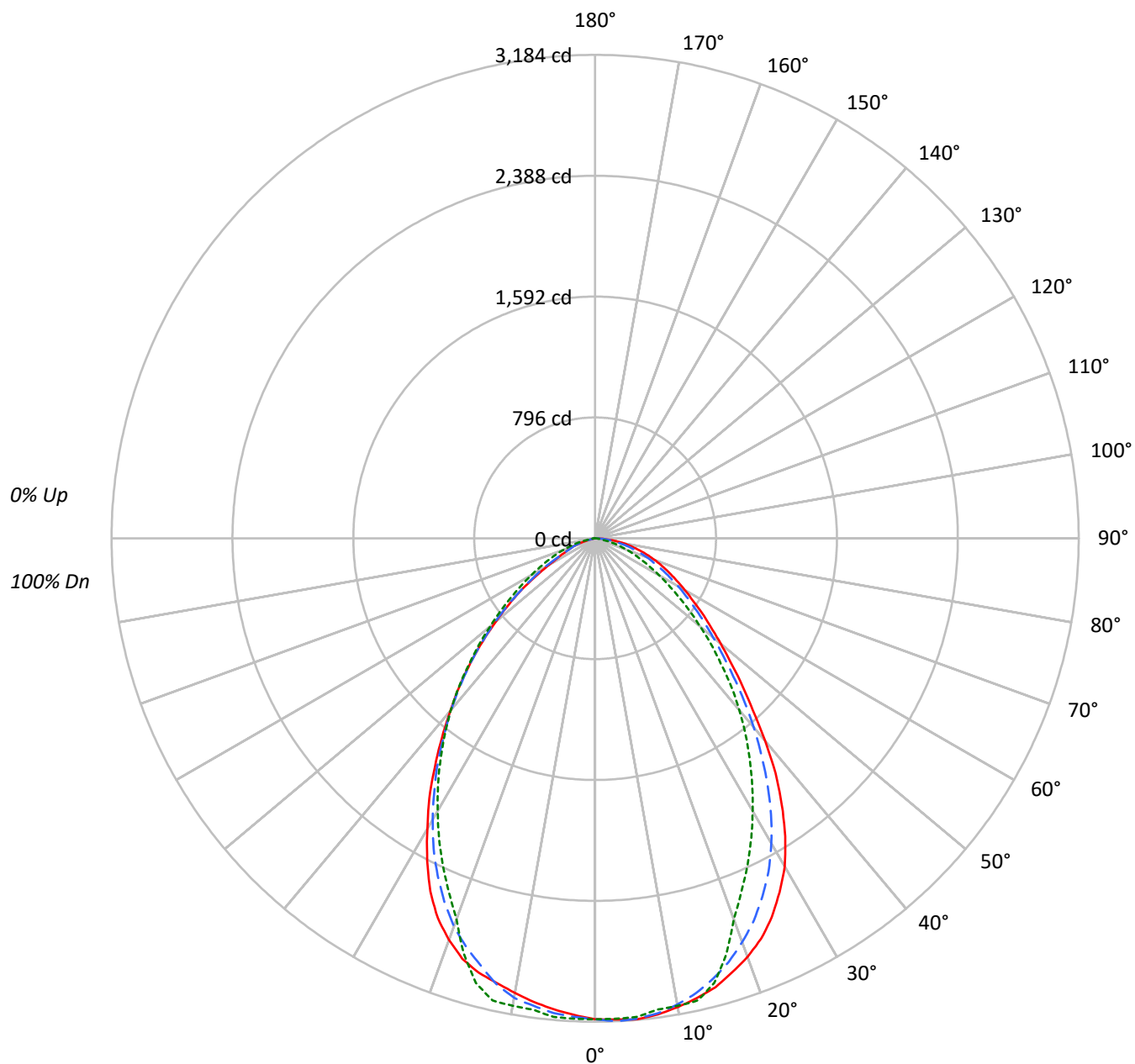
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
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°	206676	206676	206676
5°	208271	207197	203962
10°	207685	207141	201418
15°	206740	204794	200073
20°	203659	185379	195376
25°	198132	170885	184800
30°	188130	156204	166434
35°	170717	141225	146465
40°	148214	125790	126139
45°	126402	108180	107045
50°	109403	91448	86434
55°	97808	76276	66915
60°	89119	63349	45094
65°	83207	52085	33669
70°	79257	42385	28250
75°	74663	30072	9327
80°	71121	15442	3081
85°	58537	9207	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	5.4
10°-20°	836.7	15.0
20°-30°	1154.9	20.7
30°-40°	1175.2	21.0
40°-50°	944.5	16.9
50°-60°	628.0	11.2
60°-70°	357.9	6.4
70°-80°	160.7	2.9
80°-90°	33.8	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°	2290.7	41.0
0°-40°	3466.0	62.0
0°-60°	5038.5	90.1
0°-90°	5591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5591.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3168	3168	3168	3168	3168	
5°	3180	3176	3164	3139	3114	302
15°	3061	3003	3032	2913	2962	861
25°	2752	2604	2374	2452	2567	1261
35°	2144	1979	1773	1806	1839	1332
45°	1370	1288	1172	1160	1160	1062
55°	860	802	671	597	588	773
65°	539	481	337	218	218	537
75°	296	247	119	49	37	316
85°	78	54	12	4	0	93
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°	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9
2.5°	3172.0	3188.5	3184.4	3180.2	3184.4	3180.2	3172.0	3172.0	3163.8	3163.8	3184.4
5°	3180.2	3188.5	3184.4	3180.2	3180.2	3184.4	3167.9	3167.9	3159.7	3155.6	3176.1
7.5°	3163.8	3176.1	3167.9	3167.9	3163.8	3167.9	3151.5	3151.5	3139.1	3135.0	3155.6
10°	3135.0	3151.5	3143.2	3143.2	3143.2	3135.0	3126.8	3122.7	3110.3	3106.2	3118.5
12.5°	3102.1	3114.4	3110.3	3102.1	3102.1	3102.1	3085.6	3081.5	3065.1	3056.8	3069.2
15°	3060.9	3069.2	3065.1	3060.9	3052.7	3052.7	3036.3	3028.0	3011.6	2995.1	3003.3
17.5°	2999.2	3011.6	3003.3	2999.2	2986.9	2986.9	2970.4	2962.2	2937.5	2921.1	2925.2
20°	2933.4	2937.5	2933.4	2925.2	2912.8	2908.7	2892.3	2875.8	2855.2	2834.7	2830.5
22.5°	2855.2	2859.3	2847.0	2838.8	2826.4	2822.3	2801.7	2789.4	2756.5	2731.8	2727.7
25°	2752.4	2756.5	2756.5	2735.9	2727.7	2719.5	2698.9	2678.3	2649.5	2616.6	2604.3
27.5°	2629.0	2641.3	2633.1	2612.5	2596.0	2591.9	2571.4	2554.9	2517.9	2489.1	2472.6
30°	2497.3	2493.2	2489.1	2476.7	2452.0	2447.9	2427.4	2406.8	2378.0	2341.0	2320.4
32.5°	2328.6	2328.6	2324.5	2312.2	2287.5	2279.2	2262.8	2238.1	2205.2	2176.4	2155.8
35°	2143.5	2147.6	2143.5	2118.8	2102.3	2094.1	2085.9	2057.1	2028.3	1995.4	1978.9
37.5°	1950.1	1937.8	1941.9	1921.3	1900.7	1909.0	1884.3	1871.9	1839.0	1814.3	1797.9
40°	1740.3	1748.5	1732.1	1723.8	1711.5	1699.2	1699.2	1678.6	1662.1	1633.3	1625.1
42.5°	1534.6	1546.9	1542.8	1534.6	1518.1	1522.2	1501.7	1493.4	1472.9	1460.5	1448.2
45°	1370.0	1370.0	1370.0	1361.8	1357.7	1349.4	1337.1	1324.8	1312.4	1296.0	1287.7
47.5°	1209.6	1209.6	1213.7	1205.5	1197.2	1193.1	1184.9	1184.9	1164.3	1147.9	1139.6
50°	1077.9	1077.9	1077.9	1069.7	1061.5	1061.5	1053.2	1045.0	1032.7	1020.3	1012.1
52.5°	958.6	958.6	958.6	950.4	946.3	942.1	938.0	933.9	917.5	909.2	901.0
55°	859.9	855.7	855.7	851.6	843.4	843.4	839.3	831.1	818.7	806.4	802.3
57.5°	761.1	765.2	761.1	761.1	752.9	752.9	744.7	740.5	728.2	720.0	711.8
60°	683.0	683.0	683.0	678.8	670.6	674.7	666.5	662.4	650.0	637.7	629.5
62.5°	604.8	608.9	608.9	604.8	596.6	596.6	592.4	588.3	576.0	563.6	551.3
65°	539.0	539.0	539.0	534.8	530.7	530.7	526.6	522.5	510.2	493.7	481.4
67.5°	477.2	473.1	473.1	473.1	469.0	464.9	460.8	456.7	444.3	432.0	415.5
70°	415.5	415.5	415.5	411.4	403.2	407.3	403.2	399.1	386.7	374.4	362.0
72.5°	357.9	357.9	353.8	349.7	349.7	345.6	345.6	341.5	329.1	312.7	300.3
75°	296.2	296.2	296.2	296.2	288.0	292.1	283.9	279.8	271.5	259.2	246.8
77.5°	242.7	242.7	242.7	238.6	234.5	234.5	230.4	226.3	213.9	205.7	189.3
80°	189.3	189.3	189.3	189.3	185.1	181.0	176.9	172.8	164.6	152.2	139.9
82.5°	139.9	139.9	135.8	135.8	135.8	131.7	127.5	123.4	115.2	107.0	98.7
85°	78.2	82.3	82.3	74.1	78.2	74.1	74.1	65.8	65.8	57.6	53.5
87.5°	28.8	24.7	24.7	24.7	24.7	24.7	24.7	20.6	20.6	20.6	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9
2.5°	3167.9	3163.8	3180.2	3180.2	3155.6	3167.9	3172.0	3163.8	3163.8	3167.9	3155.6
5°	3159.7	3151.5	3167.9	3172.0	3147.3	3159.7	3163.8	3155.6	3159.7	3163.8	3147.3
7.5°	3130.9	3130.9	3143.2	3147.3	3122.7	3135.0	3135.0	3126.8	3130.9	3130.9	3118.5
10°	3102.1	3089.7	3102.1	3102.1	3081.5	3085.6	3093.9	3089.7	3106.2	3126.8	3126.8
12.5°	3048.6	3036.3	3056.8	3056.8	3044.5	3060.9	3081.5	3093.9	3110.3	3118.5	3093.9
15°	2982.8	2986.9	3023.9	3052.7	3040.4	3065.1	3085.6	3077.4	3056.8	3032.1	2995.1
17.5°	2896.4	2884.0	2916.9	2933.4	2916.9	2925.2	2941.6	2925.2	2892.3	2871.7	2822.3
20°	2797.6	2764.7	2764.7	2756.5	2727.7	2727.7	2723.6	2694.8	2682.4	2670.1	2649.5
22.5°	2686.5	2649.5	2637.2	2612.5	2587.8	2583.7	2571.4	2542.6	2526.1	2517.9	2493.2
25°	2559.0	2526.1	2505.5	2480.8	2443.8	2435.6	2423.2	2394.4	2386.2	2373.9	2353.3
27.5°	2427.4	2386.2	2357.4	2332.7	2299.8	2295.7	2271.0	2250.4	2234.0	2225.8	2209.3
30°	2275.1	2229.9	2209.3	2176.4	2151.7	2143.5	2122.9	2094.1	2081.8	2073.5	2061.2
32.5°	2106.5	2069.4	2048.9	2020.1	1987.1	1991.3	1966.6	1941.9	1933.7	1925.4	1913.1
35°	1941.9	1904.9	1880.2	1855.5	1834.9	1826.7	1810.2	1789.7	1777.3	1773.2	1765.0
37.5°	1760.9	1732.1	1711.5	1686.8	1670.4	1662.1	1653.9	1633.3	1625.1	1625.1	1608.6
40°	1584.0	1559.3	1542.8	1530.5	1509.9	1505.8	1497.6	1485.2	1481.1	1477.0	1464.6
42.5°	1423.5	1390.6	1378.2	1370.0	1357.7	1349.4	1345.3	1337.1	1333.0	1328.9	1316.5
45°	1271.3	1242.5	1230.1	1221.9	1209.6	1205.5	1201.3	1189.0	1180.8	1172.5	1168.4
47.5°	1123.2	1102.6	1098.5	1077.9	1069.7	1061.5	1053.2	1045.0	1040.9	1036.8	1020.3
50°	995.6	983.3	962.7	950.4	942.1	938.0	921.6	909.2	905.1	901.0	888.7
52.5°	880.4	864.0	851.6	831.1	826.9	818.7	810.5	794.0	785.8	781.7	769.3
55°	777.6	765.2	748.8	732.3	720.0	715.9	703.5	687.1	678.8	670.6	662.4
57.5°	691.2	670.6	654.2	637.7	629.5	617.1	604.8	596.6	584.2	571.9	559.5
60°	608.9	592.4	571.9	555.4	547.2	539.0	522.5	510.2	497.8	485.5	473.1
62.5°	530.7	514.3	493.7	477.2	469.0	460.8	444.3	432.0	419.6	407.3	390.8
65°	460.8	444.3	427.9	411.4	403.2	395.0	378.5	362.0	349.7	337.4	320.9
67.5°	403.2	382.6	366.2	349.7	341.5	333.2	316.8	304.4	288.0	275.6	259.2
70°	341.5	325.0	312.7	296.2	288.0	279.8	263.3	246.8	234.5	222.2	205.7
72.5°	288.0	267.4	255.1	238.6	230.4	226.3	209.8	197.5	185.1	168.7	156.3
75°	230.4	213.9	197.5	185.1	176.9	172.8	156.3	144.0	131.7	119.3	107.0
77.5°	176.9	164.6	148.1	135.8	127.5	123.4	107.0	94.6	82.3	74.1	61.7
80°	131.7	115.2	107.0	94.6	90.5	82.3	74.1	61.7	53.5	41.1	32.9
82.5°	90.5	78.2	69.9	61.7	57.6	53.5	45.3	37.0	28.8	24.7	20.6
85°	49.4	41.1	37.0	32.9	28.8	28.8	24.7	20.6	16.5	12.3	8.2
87.5°	16.5	12.3	12.3	12.3	12.3	8.2	8.2	8.2	4.1	4.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9
2.5°	3163.8	3163.8	3163.8	3159.7	3159.7	3159.7	3155.6	3172.0	3155.6	3151.5	3163.8
5°	3159.7	3151.5	3151.5	3151.5	3151.5	3147.3	3143.2	3151.5	3139.1	3135.0	3135.0
7.5°	3135.0	3130.9	3130.9	3126.8	3122.7	3118.5	3114.4	3118.5	3106.2	3102.1	3102.1
10°	3139.1	3130.9	3130.9	3118.5	3110.3	3098.0	3085.6	3089.7	3073.3	3060.9	3060.9
12.5°	3089.7	3069.2	3056.8	3044.5	3036.3	3032.1	3015.7	3023.9	3007.5	3003.3	3003.3
15°	2978.7	2954.0	2933.4	2925.2	2925.2	2916.9	2904.6	2921.1	2912.8	2916.9	2937.5
17.5°	2805.9	2793.5	2781.2	2777.1	2781.2	2789.4	2797.6	2822.3	2822.3	2834.7	2855.2
20°	2653.6	2645.4	2653.6	2653.6	2657.8	2674.2	2690.7	2711.2	2719.5	2731.8	2760.6
22.5°	2505.5	2505.5	2513.8	2526.1	2522.0	2550.8	2554.9	2591.9	2591.9	2616.6	2641.3
25°	2361.5	2361.5	2369.8	2373.9	2382.1	2398.6	2415.0	2443.8	2452.0	2476.7	2497.3
27.5°	2221.6	2217.5	2217.5	2221.6	2229.9	2250.4	2258.7	2291.6	2303.9	2320.4	2341.0
30°	2065.3	2061.2	2069.4	2077.7	2073.5	2094.1	2106.5	2131.1	2139.4	2155.8	2172.3
32.5°	1917.2	1917.2	1917.2	1925.4	1925.4	1941.9	1941.9	1970.7	1970.7	1983.0	1999.5
35°	1765.0	1765.0	1769.1	1773.2	1777.3	1781.4	1785.5	1802.0	1806.1	1810.2	1818.5
37.5°	1621.0	1616.9	1621.0	1621.0	1612.8	1629.2	1629.2	1645.7	1633.3	1645.7	1649.8
40°	1472.9	1472.9	1468.8	1468.8	1468.8	1477.0	1468.8	1481.1	1472.9	1481.1	1477.0
42.5°	1320.6	1320.6	1312.4	1320.6	1316.5	1316.5	1316.5	1324.8	1312.4	1320.6	1324.8
45°	1168.4	1164.3	1164.3	1160.2	1160.2	1160.2	1164.3	1164.3	1160.2	1168.4	1168.4
47.5°	1020.3	1016.2	1016.2	1016.2	1016.2	1020.3	1008.0	1016.2	1008.0	1008.0	1008.0
50°	892.8	888.7	884.5	880.4	876.3	876.3	872.2	872.2	864.0	859.9	855.7
52.5°	769.3	765.2	757.0	757.0	752.9	748.8	736.4	736.4	724.1	720.0	720.0
55°	658.3	645.9	641.8	633.6	633.6	625.4	617.1	608.9	596.6	588.3	588.3
57.5°	555.4	543.1	534.8	530.7	526.6	518.4	501.9	497.8	481.4	477.2	473.1
60°	464.9	452.6	440.2	432.0	427.9	415.5	399.1	390.8	382.6	370.3	357.9
62.5°	378.5	366.2	349.7	345.6	337.4	325.0	312.7	300.3	292.1	279.8	271.5
65°	304.4	292.1	279.8	271.5	263.3	251.0	238.6	226.3	218.1	213.9	209.8
67.5°	246.8	230.4	218.1	213.9	205.7	197.5	185.1	181.0	172.8	172.8	172.8
70°	193.4	181.0	168.7	164.6	160.5	152.2	144.0	144.0	144.0	144.0	144.0
72.5°	144.0	135.8	123.4	119.3	115.2	111.1	102.9	107.0	102.9	102.9	102.9
75°	90.5	82.3	74.1	69.9	65.8	61.7	57.6	53.5	49.4	45.3	45.3
77.5°	49.4	41.1	37.0	32.9	32.9	28.8	24.7	24.7	20.6	20.6	20.6
80°	28.8	24.7	20.6	16.5	16.5	12.3	12.3	12.3	12.3	8.2	8.2
82.5°	16.5	12.3	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1	4.1
85°	8.2	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	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	0.0	0.0	0.0



TEST NUMBER: P252418

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9	3167.9
2.5°	3143.2	3155.6	3143.2	3155.6	3155.6	3155.6	3155.6	3143.2
5°	3122.7	3130.9	3118.5	3126.8	3130.9	3126.8	3126.8	3114.4
7.5°	3085.6	3093.9	3081.5	3093.9	3098.0	3093.9	3089.7	3081.5
10°	3048.6	3052.7	3040.4	3048.6	3056.8	3056.8	3052.7	3040.4
12.5°	2991.0	3003.3	2991.0	2999.2	3007.5	3011.6	3011.6	2999.2
15°	2925.2	2945.7	2937.5	2949.9	2962.2	2966.3	2966.3	2962.2
17.5°	2859.3	2879.9	2867.6	2888.1	2900.5	2908.7	2912.8	2904.6
20°	2764.7	2789.4	2781.2	2797.6	2814.1	2826.4	2826.4	2814.1
22.5°	2641.3	2674.2	2670.1	2682.4	2703.0	2707.1	2715.3	2707.1
25°	2505.5	2530.2	2526.1	2538.4	2563.1	2563.1	2567.2	2567.2
27.5°	2349.2	2373.9	2369.8	2378.0	2394.4	2398.6	2402.7	2394.4
30°	2180.5	2192.9	2192.9	2205.2	2217.5	2221.6	2221.6	2209.3
32.5°	1995.4	2011.8	2020.1	2015.9	2028.3	2036.5	2032.4	2032.4
35°	1826.7	1830.8	1834.9	1839.0	1843.1	1851.4	1843.1	1839.0
37.5°	1645.7	1658.0	1649.8	1658.0	1666.2	1662.1	1658.0	1658.0
40°	1481.1	1485.2	1477.0	1485.2	1489.3	1489.3	1489.3	1481.1
42.5°	1316.5	1324.8	1316.5	1324.8	1324.8	1324.8	1324.8	1320.6
45°	1152.0	1160.2	1160.2	1164.3	1164.3	1160.2	1160.2	1160.2
47.5°	999.7	1008.0	999.7	1008.0	1012.1	1003.9	1003.9	1003.9
50°	855.7	851.6	851.6	855.7	855.7	855.7	855.7	851.6
52.5°	707.6	711.8	711.8	711.8	715.9	711.8	715.9	715.9
55°	580.1	580.1	580.1	584.2	580.1	580.1	584.2	588.3
57.5°	464.9	460.8	456.7	456.7	460.8	456.7	456.7	456.7
60°	357.9	353.8	349.7	349.7	349.7	349.7	349.7	345.6
62.5°	267.4	267.4	267.4	271.5	271.5	271.5	271.5	275.6
65°	213.9	213.9	213.9	213.9	213.9	213.9	213.9	218.1
67.5°	172.8	172.8	172.8	176.9	176.9	176.9	176.9	176.9
70°	144.0	144.0	148.1	144.0	148.1	148.1	148.1	148.1
72.5°	98.7	98.7	98.7	98.7	98.7	94.6	98.7	94.6
75°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	37.0
77.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
80°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	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)