

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: P252622

Luminaire Tested: **LD6B60D010TE EU6B60708027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60708027 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5694.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

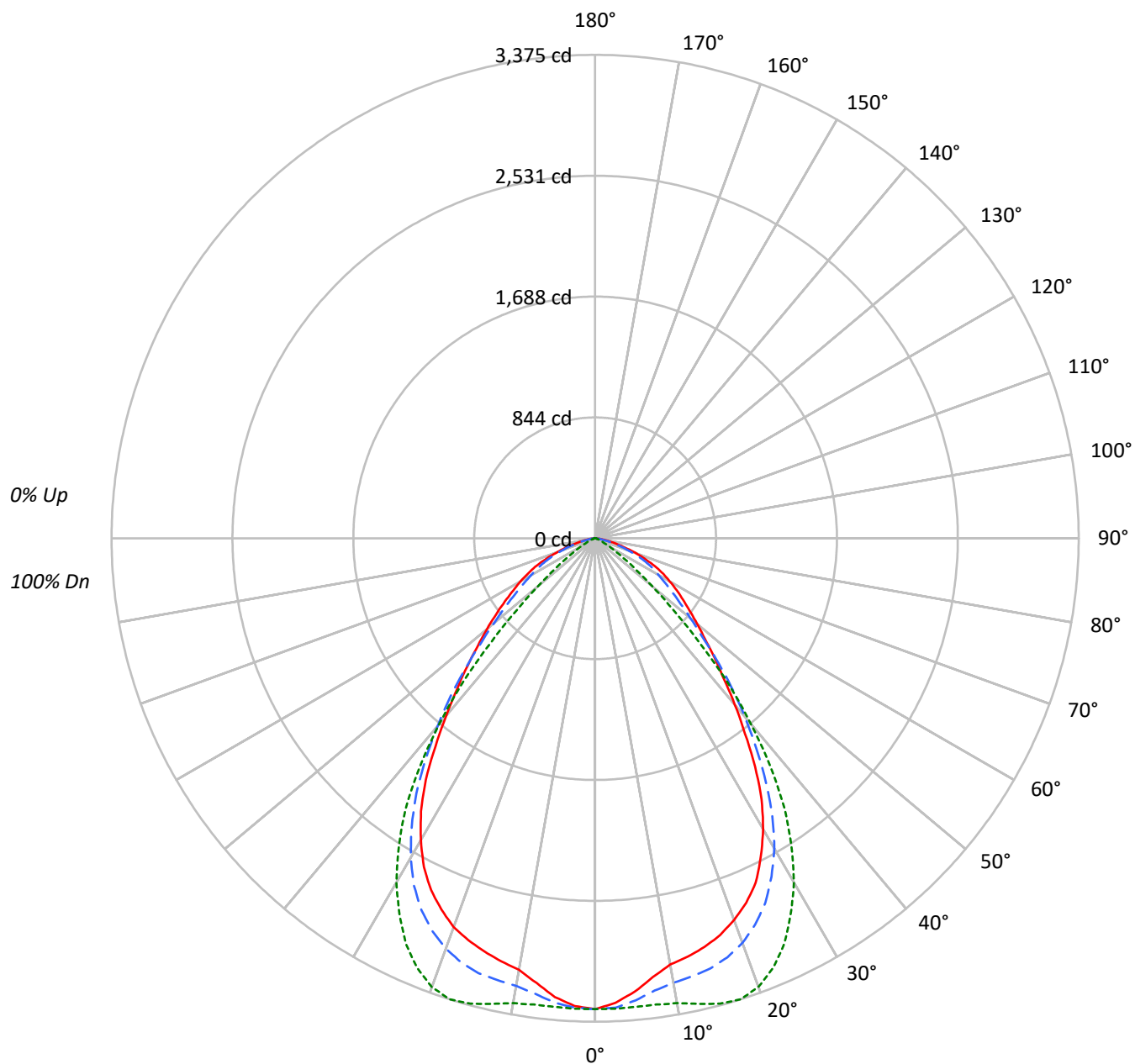
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	105	102		109	106	103	100		102	99	97		98	96	94		94	93	91
2	104	97	92	87		101	95	91	86		92	88	84		89	86	83		86	83	81
3	96	88	81	76		94	86	80	76		84	79	74		81	77	73		79	75	72
4	90	80	73	67		88	79	72	67		76	70	66		74	69	65		72	68	64
5	84	73	65	60		82	72	65	59		70	64	59		68	63	58		66	62	58
6	78	67	59	54		76	66	59	53		64	58	53		63	57	53		61	56	52
7	73	61	54	49		72	61	53	48		59	53	48		58	52	48		57	51	48
8	69	57	49	44		67	56	49	44		55	48	44		54	48	44		53	47	43
9	64	53	45	40		63	52	45	40		51	45	40		50	44	40		49	44	40
10	61	49	42	37		60	48	42	37		48	41	37		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	214472	214472	214472
5°	208074	215042	210563
10°	200159	218284	202676
15°	199452	227171	201762
20°	196841	231402	200535
25°	190955	224881	195065
30°	176649	209005	183233
35°	154979	183731	164059
40°	129145	144032	137559
45°	108706	95023	116068
50°	94118	52078	99903
55°	85160	27662	87321
60°	78354	14379	78354
65°	70996	7626	69236
70°	57263	4349	52914
75°	39273	2874	36399
80°	25698	1428	22843
85°	17067	2844	14222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.5	5.4
10°-20°	886.4	15.6
20°-30°	1309.7	23.0
30°-40°	1322.9	23.2
40°-50°	911.8	16.0
50°-60°	523.7	9.2
60°-70°	304.8	5.4
70°-80°	111.2	2.0
80°-90°	17.0	0.3
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°	2502.6	44.0
0°-40°	3825.5	67.2
0°-60°	5261.0	92.4
0°-90°	5694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5694.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3287	3287	3287	3287	3287	
5°	3177	3238	3284	3253	3215	298
15°	2953	3109	3363	3143	2987	832
25°	2653	2809	3124	2866	2710	1209
35°	1946	2079	2307	2174	2060	1208
45°	1178	1193	1030	1269	1258	916
55°	749	658	243	684	768	674
65°	460	388	49	384	448	450
75°	156	125	11	122	144	175
85°	23	11	4	15	19	29
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°	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4
2.5°	3245.6	3249.4	3253.2	3249.4	3253.2	3268.4	3257.0	3264.6	3264.6	3268.4	3279.8
5°	3177.2	3177.2	3184.8	3181.0	3192.4	3207.6	3196.2	3207.6	3211.4	3219.0	3238.0
7.5°	3089.8	3089.8	3093.6	3093.6	3108.8	3124.0	3116.4	3131.6	3146.8	3162.0	3184.8
10°	3021.4	3029.0	3029.0	3032.8	3048.0	3067.0	3063.2	3082.2	3097.4	3120.2	3150.6
12.5°	2991.0	2994.8	2994.8	3002.4	3017.6	3036.6	3032.8	3051.8	3074.6	3101.2	3131.6
15°	2953.0	2960.6	2956.8	2964.4	2979.6	2998.6	2994.8	3013.8	3040.4	3067.0	3108.8
17.5°	2903.6	2907.4	2911.2	2911.2	2926.4	2941.6	2941.6	2960.6	2991.0	3021.4	3067.0
20°	2835.2	2842.8	2842.8	2846.6	2858.0	2880.8	2877.0	2896.0	2926.4	2956.8	3006.2
22.5°	2755.4	2759.2	2759.2	2763.0	2782.0	2793.4	2797.2	2812.4	2839.0	2873.2	2918.8
25°	2652.7	2656.5	2652.7	2664.1	2671.7	2694.6	2687.0	2706.0	2736.4	2763.0	2808.6
27.5°	2504.5	2512.1	2512.1	2515.9	2534.9	2553.9	2553.9	2572.9	2599.5	2618.5	2664.1
30°	2344.9	2356.3	2344.9	2363.9	2371.5	2386.7	2398.1	2409.5	2432.3	2458.9	2500.7
32.5°	2162.5	2158.7	2162.5	2170.1	2192.9	2204.3	2211.9	2223.3	2246.1	2268.9	2303.1
35°	1945.9	1953.5	1957.3	1972.5	1972.5	1991.5	1995.3	2002.9	2037.1	2052.3	2078.9
37.5°	1717.8	1725.4	1729.2	1736.8	1752.0	1759.6	1771.0	1782.4	1805.2	1831.8	1847.0
40°	1516.4	1516.4	1520.2	1527.8	1539.2	1543.0	1554.4	1569.6	1584.8	1607.6	1622.8
42.5°	1326.4	1330.2	1326.4	1334.0	1345.4	1360.6	1356.8	1375.8	1379.6	1394.8	1406.2
45°	1178.2	1178.2	1170.6	1178.2	1178.2	1193.4	1189.6	1197.2	1193.4	1201.0	1193.4
47.5°	1037.5	1041.3	1037.5	1041.3	1041.3	1041.3	1045.1	1037.5	1041.3	1029.9	1007.1
50°	927.3	931.1	923.5	927.3	923.5	919.7	923.5	912.1	908.3	893.1	870.3
52.5°	832.3	828.5	824.7	824.7	824.7	820.9	817.1	805.7	794.3	779.1	752.5
55°	748.7	744.9	741.1	741.1	733.5	729.7	729.7	718.3	706.9	687.9	657.5
57.5°	672.7	668.9	665.1	665.1	661.3	653.7	653.7	642.3	627.1	604.3	577.7
60°	600.5	600.5	600.5	596.7	596.7	589.1	589.1	577.7	562.5	539.7	509.3
62.5°	535.9	532.1	532.1	532.1	532.1	528.3	524.5	516.9	501.7	478.9	452.3
65°	459.9	459.9	459.9	459.9	456.1	456.1	456.1	444.7	437.1	414.3	387.7
67.5°	376.2	376.2	376.2	376.2	372.4	376.2	376.2	368.6	361.0	338.2	315.4
70°	300.2	296.4	292.6	296.4	292.6	292.6	296.4	288.8	285.0	266.0	243.2
72.5°	220.4	224.2	220.4	220.4	220.4	216.6	220.4	216.6	209.0	193.8	178.6
75°	155.8	159.6	159.6	155.8	155.8	155.8	152.0	152.0	144.4	133.0	125.4
77.5°	106.4	106.4	106.4	106.4	102.6	102.6	102.6	98.8	95.0	87.4	79.8
80°	68.4	68.4	68.4	68.4	64.6	64.6	64.6	60.8	60.8	53.2	45.6
82.5°	41.8	41.8	41.8	41.8	41.8	41.8	38.0	38.0	34.2	30.4	26.6
85°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	19.0	19.0	15.2	11.4
87.5°	7.6	7.6	11.4	11.4	11.4	11.4	11.4	11.4	7.6	7.6	7.6
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°	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4
2.5°	3272.2	3276.0	3276.0	3276.0	3287.4	3291.2	3279.8	3268.4	3291.2	3287.4	3295.0
5°	3234.2	3245.6	3253.2	3257.0	3268.4	3276.0	3264.6	3260.8	3279.8	3283.6	3287.4
7.5°	3188.6	3207.6	3226.6	3234.2	3249.4	3257.0	3253.2	3253.2	3276.0	3283.6	3283.6
10°	3158.2	3184.8	3207.6	3226.6	3245.6	3257.0	3257.0	3260.8	3287.4	3295.0	3302.6
12.5°	3150.6	3184.8	3215.2	3241.8	3257.0	3276.0	3279.8	3291.2	3317.8	3329.2	3329.2
15°	3131.6	3177.2	3215.2	3249.4	3272.2	3295.0	3302.6	3325.4	3355.8	3363.4	3371.0
17.5°	3097.4	3143.0	3188.6	3230.4	3260.8	3279.8	3302.6	3325.4	3363.4	3374.8	3378.6
20°	3036.6	3089.8	3135.4	3177.2	3207.6	3234.2	3257.0	3283.6	3317.8	3333.0	3336.8
22.5°	2945.4	2998.6	3044.2	3089.8	3120.2	3143.0	3165.8	3196.2	3230.4	3245.6	3245.6
25°	2835.2	2884.6	2934.0	2968.2	2998.6	3025.2	3036.6	3070.8	3105.0	3124.0	3124.0
27.5°	2694.6	2740.2	2785.8	2823.8	2842.8	2865.6	2884.6	2915.0	2941.6	2956.8	2972.0
30°	2515.9	2561.5	2603.3	2641.3	2664.1	2687.0	2706.0	2728.8	2755.4	2774.4	2778.2
32.5°	2322.1	2360.1	2401.9	2439.9	2462.7	2470.3	2489.3	2512.1	2534.9	2550.1	2553.9
35°	2109.3	2135.9	2162.5	2196.7	2219.5	2219.5	2238.5	2253.7	2272.7	2306.9	2299.3
37.5°	1858.4	1896.4	1915.5	1926.9	1942.1	1957.3	1961.1	1980.1	2002.9	2010.5	2021.9
40°	1622.8	1634.2	1645.6	1645.6	1660.8	1660.8	1660.8	1664.6	1687.4	1691.2	1706.4
42.5°	1387.2	1387.2	1375.8	1364.4	1368.2	1364.4	1345.4	1345.4	1356.8	1372.0	1372.0
45°	1166.8	1140.1	1105.9	1079.3	1060.3	1052.7	1029.9	1029.9	1026.1	1029.9	1045.1
47.5°	980.5	934.9	877.9	824.7	805.7	790.5	756.3	741.1	733.5	737.3	744.9
50°	824.7	775.3	710.7	646.1	611.9	592.9	551.1	524.5	520.7	513.1	528.3
52.5°	710.7	649.9	581.5	505.5	471.3	440.9	395.3	372.4	357.2	357.2	361.0
55°	611.9	547.3	471.3	395.3	361.0	338.2	292.6	262.2	247.0	243.2	254.6
57.5°	528.3	467.5	391.5	315.4	281.2	254.6	209.0	182.4	171.0	163.4	167.2
60°	463.7	402.9	326.8	254.6	224.2	193.8	155.8	125.4	110.2	110.2	114.0
62.5°	402.9	345.8	277.4	209.0	182.4	155.8	114.0	87.4	76.0	72.2	76.0
65°	342.0	288.8	231.8	174.8	148.2	125.4	91.2	68.4	53.2	49.4	53.2
67.5°	277.4	235.6	186.2	140.6	117.8	98.8	68.4	49.4	38.0	34.2	38.0
70°	216.6	178.6	140.6	102.6	87.4	72.2	49.4	38.0	26.6	22.8	26.6
72.5°	155.8	129.2	98.8	72.2	60.8	49.4	34.2	26.6	19.0	15.2	19.0
75°	106.4	87.4	64.6	45.6	38.0	34.2	22.8	15.2	11.4	11.4	11.4
77.5°	68.4	53.2	41.8	30.4	22.8	19.0	11.4	7.6	7.6	7.6	7.6
80°	38.0	30.4	22.8	15.2	11.4	11.4	7.6	7.6	3.8	3.8	3.8
82.5°	22.8	15.2	11.4	7.6	7.6	3.8	3.8	3.8	3.8	3.8	3.8
85°	11.4	7.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4
2.5°	3279.8	3283.6	3272.2	3287.4	3276.0	3291.2	3291.2	3276.0	3279.8	3272.2	3287.4
5°	3272.2	3272.2	3264.6	3276.0	3260.8	3276.0	3272.2	3245.6	3253.2	3238.0	3253.2
7.5°	3272.2	3264.6	3253.2	3264.6	3245.6	3257.0	3241.8	3215.2	3207.6	3188.6	3188.6
10°	3283.6	3272.2	3257.0	3260.8	3241.8	3245.6	3222.8	3184.8	3173.4	3150.6	3143.0
12.5°	3310.2	3298.8	3276.0	3283.6	3257.0	3257.0	3226.6	3181.0	3158.2	3127.8	3120.2
15°	3348.2	3329.2	3302.6	3306.4	3279.8	3264.6	3226.6	3173.4	3143.0	3101.2	3089.8
17.5°	3355.8	3336.8	3302.6	3302.6	3268.4	3249.4	3203.8	3143.0	3105.0	3063.2	3040.4
20°	3314.0	3295.0	3257.0	3253.2	3222.8	3196.2	3146.8	3086.0	3048.0	3002.4	2983.4
22.5°	3226.6	3203.8	3169.6	3165.8	3135.4	3120.2	3067.0	3006.2	2968.2	2922.6	2907.4
25°	3097.4	3086.0	3051.8	3048.0	3021.4	3002.4	2956.8	2899.8	2865.6	2820.0	2804.8
27.5°	2945.4	2934.0	2899.8	2899.8	2869.4	2858.0	2816.2	2763.0	2736.4	2694.6	2675.5
30°	2763.0	2747.8	2728.8	2725.0	2698.4	2687.0	2648.9	2599.5	2572.9	2538.7	2531.1
32.5°	2546.3	2534.9	2523.5	2519.7	2493.1	2481.7	2455.1	2405.7	2382.9	2352.5	2341.1
35°	2295.5	2287.9	2276.5	2272.7	2261.3	2249.9	2223.3	2185.3	2173.9	2151.1	2139.7
37.5°	2006.7	2014.3	2006.7	2006.7	1995.3	1999.1	1976.3	1953.5	1942.1	1926.9	1919.3
40°	1695.0	1710.2	1721.6	1721.6	1717.8	1733.0	1729.2	1710.2	1706.4	1698.8	1695.0
42.5°	1379.6	1387.2	1410.0	1425.2	1421.4	1459.4	1463.2	1478.4	1489.8	1482.2	1486.0
45°	1048.9	1071.7	1102.1	1117.3	1136.3	1185.8	1212.4	1242.8	1269.4	1284.6	1280.8
47.5°	756.3	782.9	817.1	839.9	874.1	934.9	1003.3	1041.3	1079.3	1098.3	1117.3
50°	547.3	573.9	615.7	649.9	672.7	756.3	828.5	877.9	919.7	946.3	965.3
52.5°	383.9	414.3	459.9	490.3	524.5	604.3	687.9	744.9	790.5	824.7	843.7
55°	266.0	300.2	342.0	372.4	410.5	494.1	573.9	634.7	684.1	714.5	737.3
57.5°	186.2	216.6	258.4	285.0	323.0	402.9	482.7	543.5	592.9	623.3	649.9
60°	125.4	155.8	197.6	224.2	254.6	334.4	406.7	471.3	516.9	547.3	573.9
62.5°	87.4	114.0	155.8	182.4	209.0	277.4	345.8	402.9	448.5	482.7	505.5
65°	68.4	91.2	125.4	148.2	174.8	231.8	288.8	338.2	383.9	418.1	433.3
67.5°	49.4	72.2	98.8	117.8	136.8	186.2	235.6	273.6	315.4	342.0	361.0
70°	34.2	49.4	72.2	87.4	102.6	140.6	178.6	212.8	243.2	262.2	277.4
72.5°	26.6	34.2	49.4	60.8	72.2	98.8	129.2	155.8	178.6	193.8	209.0
75°	15.2	22.8	34.2	41.8	49.4	68.4	87.4	106.4	121.6	133.0	140.6
77.5°	7.6	11.4	19.0	22.8	30.4	41.8	57.0	68.4	79.8	87.4	95.0
80°	7.6	7.6	11.4	11.4	15.2	22.8	30.4	38.0	45.6	53.2	57.0
82.5°	3.8	3.8	7.6	7.6	7.6	11.4	15.2	22.8	26.6	30.4	34.2
85°	3.8	3.8	3.8	3.8	3.8	7.6	7.6	11.4	15.2	19.0	19.0
87.5°	0.0	0.0	3.8	3.8	3.8	3.8	3.8	7.6	7.6	7.6	11.4
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: P252622

CATALOG NUMBER: LD6B60D010TE EU6B60708027 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4	3287.4
2.5°	3276.0	3283.6	3279.8	3287.4	3276.0	3272.2	3279.8	3268.4
5°	3234.2	3238.0	3234.2	3234.2	3226.6	3219.0	3226.6	3215.2
7.5°	3169.6	3169.6	3158.2	3158.2	3143.0	3135.4	3135.4	3131.6
10°	3116.4	3105.0	3093.6	3097.4	3074.6	3067.0	3063.2	3059.4
12.5°	3089.8	3082.2	3063.2	3063.2	3040.4	3032.8	3029.0	3025.2
15°	3059.4	3044.2	3029.0	3025.2	3006.2	2998.6	2994.8	2987.2
17.5°	3006.2	2994.8	2975.8	2975.8	2956.8	2953.0	2945.4	2941.6
20°	2949.2	2934.0	2918.8	2918.8	2896.0	2896.0	2884.6	2888.4
22.5°	2869.4	2858.0	2842.8	2842.8	2823.8	2820.0	2808.6	2804.8
25°	2774.4	2759.2	2747.8	2744.0	2728.8	2721.2	2717.4	2709.8
27.5°	2648.9	2637.5	2626.1	2618.5	2599.5	2595.7	2584.3	2588.1
30°	2493.1	2485.5	2481.7	2474.1	2451.3	2443.7	2443.7	2432.3
32.5°	2322.1	2310.7	2303.1	2291.7	2272.7	2268.9	2257.5	2261.3
35°	2113.1	2097.9	2086.5	2090.3	2067.5	2063.7	2056.1	2059.9
37.5°	1896.4	1881.2	1866.0	1862.2	1843.2	1843.2	1831.8	1831.8
40°	1672.2	1657.0	1649.4	1649.4	1626.6	1630.4	1619.0	1615.2
42.5°	1470.8	1455.6	1451.8	1448.0	1436.6	1432.8	1421.4	1425.2
45°	1280.8	1277.0	1277.0	1269.4	1258.0	1254.2	1258.0	1258.0
47.5°	1113.5	1117.3	1113.5	1113.5	1105.9	1113.5	1105.9	1109.7
50°	972.9	980.5	980.5	980.5	976.7	980.5	980.5	984.3
52.5°	855.1	866.5	862.7	866.5	862.7	870.3	866.5	870.3
55°	752.5	760.1	763.9	767.7	767.7	767.7	767.7	767.7
57.5°	657.5	668.9	672.7	676.5	676.5	684.1	676.5	676.5
60°	581.5	592.9	596.7	600.5	600.5	604.3	596.7	600.5
62.5°	513.1	524.5	524.5	528.3	528.3	528.3	520.7	524.5
65°	444.7	448.5	452.3	452.3	448.5	448.5	444.7	448.5
67.5°	368.6	372.4	368.6	368.6	364.8	364.8	357.2	361.0
70°	285.0	285.0	288.8	285.0	281.2	285.0	281.2	277.4
72.5°	212.8	212.8	212.8	209.0	209.0	205.2	209.0	209.0
75°	144.4	144.4	148.2	148.2	148.2	148.2	144.4	144.4
77.5°	95.0	95.0	95.0	95.0	98.8	95.0	95.0	95.0
80°	60.8	60.8	64.6	64.6	60.8	60.8	60.8	60.8
82.5°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
85°	22.8	22.8	22.8	22.8	19.0	19.0	19.0	19.0
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	7.6	7.6
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)