

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: P252297

Luminaire Tested: **LD6B50D010TE EU6B30508027 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B50D010TE EU6B30508027 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4726.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

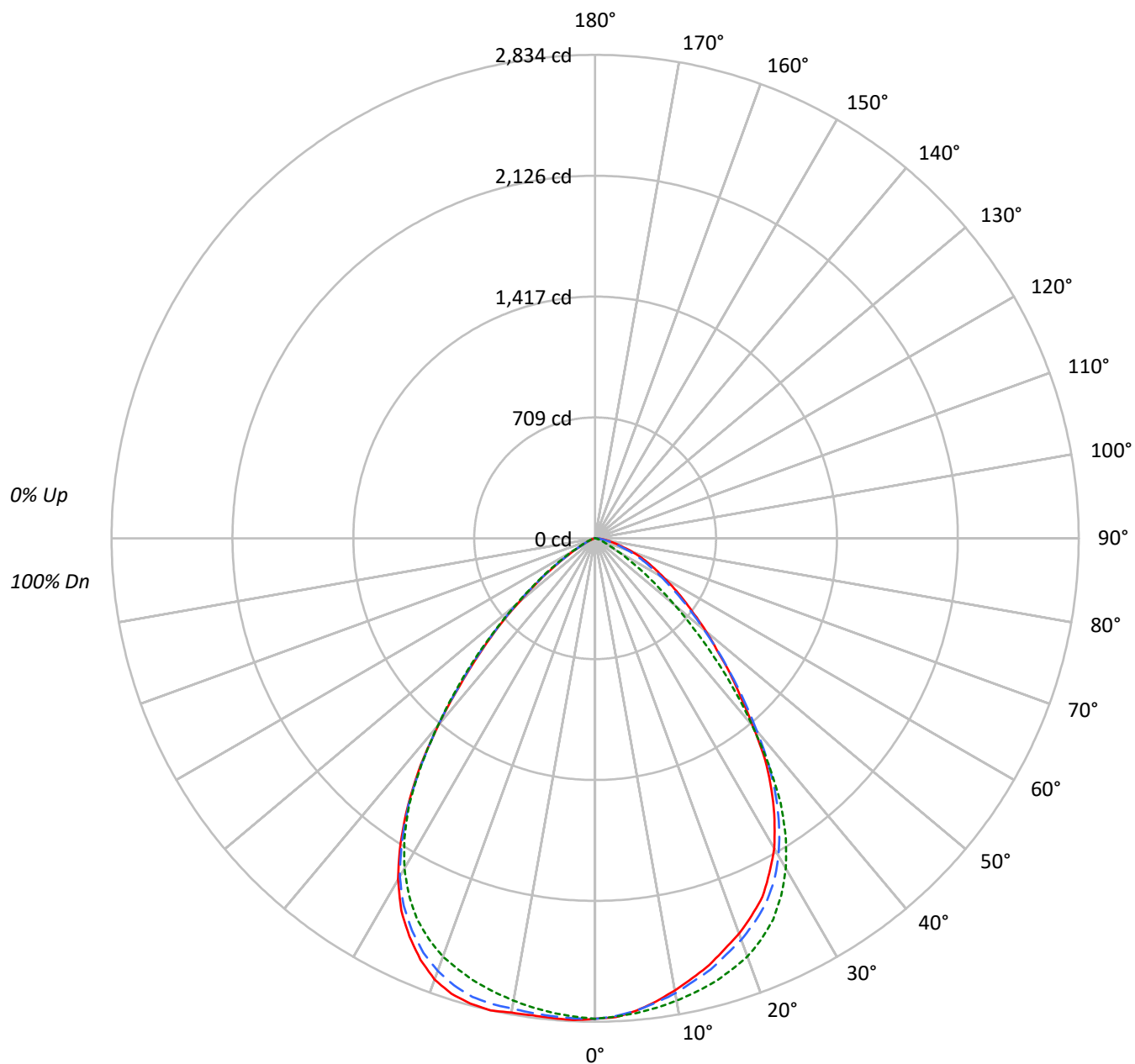
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252297

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBSW1H

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80		
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64		
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58		
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43		
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40		
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	183783	183783	183783
5°	182036	182926	184930
10°	178277	182332	187068
15°	174866	181992	190725
20°	171250	181171	191086
25°	167027	177558	185390
30°	158132	168385	174028
35°	143606	150926	152280
40°	122562	121983	121404
45°	102958	91342	88518
50°	85978	61811	58706
55°	72364	37922	34442
60°	61261	19977	17315
65°	53042	10497	8398
70°	44121	6486	4540
75°	32593	4285	2571
80°	25548	2555	1277
85°	20361	2545	0



TEST NUMBER: P252297

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	5.6
10°-20°	760.2	16.1
20°-30°	1122.5	23.8
30°-40°	1156.8	24.5
40°-50°	799.0	16.9
50°-60°	393.8	8.3
60°-70°	159.6	3.4
70°-80°	56.9	1.2
80°-90°	11.7	0.2
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°	2148.1	45.5
0°-40°	3305.0	69.9
0°-60°	4497.8	95.2
0°-90°	4726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4726.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2817	2817	2817	2817	2817	
5°	2780	2780	2793	2814	2824	262
15°	2589	2616	2694	2783	2824	729
25°	2320	2364	2467	2538	2575	1061
35°	1803	1847	1895	1905	1912	1117
45°	1116	1123	990	976	959	863
55°	636	612	333	313	303	575
65°	344	310	68	54	54	341
75°	129	109	17	10	10	145
85°	27	20	3	0	0	33
90°	0	0	0	0	0	



TEST NUMBER: P252297

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0
2.5°	2810.2	2800.0	2806.8	2793.2	2810.2	2793.2	2796.6	2800.0	2796.6	2800.0	2803.4
5°	2779.6	2769.4	2779.6	2762.6	2779.6	2769.4	2769.4	2772.8	2772.8	2776.2	2779.6
7.5°	2738.7	2728.5	2738.7	2721.7	2742.1	2731.9	2731.9	2738.7	2735.3	2738.7	2745.5
10°	2691.1	2677.5	2687.7	2677.5	2697.9	2684.3	2691.1	2691.1	2691.1	2701.3	2708.1
12.5°	2640.1	2626.5	2640.1	2623.1	2643.5	2633.3	2636.7	2646.9	2650.3	2657.1	2660.5
15°	2589.0	2572.0	2578.8	2568.6	2589.0	2578.8	2582.2	2595.8	2595.8	2606.1	2616.3
17.5°	2524.4	2510.8	2524.4	2510.8	2527.8	2521.0	2527.8	2538.0	2538.0	2548.2	2558.4
20°	2466.6	2453.0	2463.2	2453.0	2473.4	2463.2	2466.6	2480.2	2483.6	2493.8	2504.0
22.5°	2395.1	2384.9	2391.7	2381.5	2401.9	2395.1	2398.5	2412.1	2415.5	2422.3	2439.3
25°	2320.3	2299.9	2310.1	2303.3	2323.7	2313.5	2320.3	2333.9	2340.7	2350.9	2364.5
27.5°	2211.4	2201.2	2208.0	2208.0	2225.0	2214.8	2218.2	2231.8	2242.0	2252.2	2269.2
30°	2099.1	2082.1	2088.9	2092.3	2105.9	2099.1	2105.9	2119.5	2122.9	2136.6	2150.2
32.5°	1956.2	1949.4	1963.0	1956.2	1963.0	1963.0	1966.4	1976.7	1983.5	1990.3	2007.3
35°	1803.1	1789.5	1803.1	1796.3	1813.4	1803.1	1813.4	1823.6	1823.6	1837.2	1847.4
37.5°	1636.4	1619.4	1626.2	1626.2	1633.0	1629.6	1629.6	1646.6	1650.0	1660.3	1670.5
40°	1439.1	1432.3	1445.9	1442.5	1445.9	1445.9	1449.3	1459.5	1466.3	1469.7	1473.1
42.5°	1262.2	1265.6	1269.0	1269.0	1269.0	1269.0	1269.0	1282.6	1279.2	1289.4	1292.8
45°	1115.9	1102.3	1109.1	1105.7	1115.9	1105.7	1115.9	1126.1	1119.3	1129.5	1122.7
47.5°	966.2	966.2	966.2	962.8	969.6	966.2	973.0	976.4	976.4	976.4	973.0
50°	847.1	836.9	840.3	840.3	843.7	840.3	847.1	850.5	850.5	843.7	830.1
52.5°	731.5	728.1	728.1	734.9	734.9	731.5	731.5	731.5	731.5	721.3	714.5
55°	636.2	629.4	632.8	632.8	632.8	632.8	636.2	632.8	632.8	622.6	612.4
57.5°	551.1	544.3	544.3	544.3	547.7	544.3	544.3	544.3	540.9	530.7	517.1
60°	469.5	466.1	469.5	469.5	472.9	469.5	469.5	469.5	462.7	452.5	438.9
62.5°	401.5	401.5	401.5	404.9	404.9	401.5	401.5	398.1	394.7	381.0	367.4
65°	343.6	340.2	343.6	343.6	347.0	347.0	343.6	340.2	336.8	323.2	309.6
67.5°	285.8	282.4	285.8	285.8	289.2	285.8	285.8	285.8	275.6	268.8	255.2
70°	231.3	227.9	227.9	227.9	231.3	224.5	227.9	227.9	221.1	210.9	197.3
72.5°	176.9	176.9	176.9	176.9	176.9	176.9	173.5	173.5	166.7	156.5	149.7
75°	129.3	129.3	132.7	132.7	129.3	129.3	129.3	125.9	122.5	115.7	108.9
77.5°	95.3	95.3	95.3	95.3	91.9	91.9	91.9	88.5	85.1	81.7	74.8
80°	68.0	68.0	68.0	64.6	68.0	64.6	64.6	64.6	57.8	54.4	51.0
82.5°	47.6	44.2	44.2	44.2	44.2	44.2	44.2	40.8	40.8	37.4	34.0
85°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	23.8	20.4	20.4
87.5°	13.6	17.0	17.0	17.0	17.0	17.0	17.0	13.6	13.6	13.6	10.2
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: P252297

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0
2.5°	2803.4	2803.4	2810.2	2800.0	2817.0	2806.8	2803.4	2820.4	2810.2	2806.8	2813.6
5°	2779.6	2783.0	2786.4	2779.6	2796.6	2786.4	2786.4	2803.4	2796.6	2793.2	2803.4
7.5°	2748.9	2752.3	2759.2	2755.7	2769.4	2762.6	2766.0	2783.0	2776.2	2776.2	2786.4
10°	2711.5	2718.3	2725.1	2725.1	2742.1	2735.3	2735.3	2755.7	2748.9	2752.3	2766.0
12.5°	2667.3	2677.5	2687.7	2691.1	2708.1	2697.9	2701.3	2725.1	2721.7	2725.1	2738.7
15°	2619.7	2633.3	2643.5	2643.5	2663.9	2653.7	2663.9	2687.7	2680.9	2694.5	2711.5
17.5°	2565.2	2578.8	2592.4	2595.8	2616.3	2609.5	2623.1	2646.9	2646.9	2653.7	2674.1
20°	2514.2	2531.2	2538.0	2548.2	2568.6	2565.2	2572.0	2599.2	2599.2	2609.5	2629.9
22.5°	2446.2	2463.2	2476.8	2487.0	2504.0	2504.0	2514.2	2538.0	2538.0	2544.8	2565.2
25°	2371.3	2391.7	2401.9	2412.1	2429.1	2425.7	2435.9	2456.4	2459.8	2466.6	2487.0
27.5°	2276.0	2293.1	2306.7	2313.5	2337.3	2323.7	2333.9	2357.7	2354.3	2361.1	2378.1
30°	2157.0	2174.0	2187.6	2187.6	2208.0	2208.0	2218.2	2228.4	2228.4	2235.2	2248.8
32.5°	2017.5	2037.9	2037.9	2048.1	2061.7	2048.1	2061.7	2075.3	2068.5	2078.7	2088.9
35°	1857.6	1867.8	1871.2	1871.2	1881.4	1878.0	1874.6	1884.8	1878.0	1895.0	1905.2
37.5°	1663.7	1677.3	1670.5	1677.3	1673.9	1663.7	1663.7	1680.7	1667.1	1670.5	1680.7
40°	1476.5	1476.5	1473.1	1456.1	1459.5	1449.3	1445.9	1449.3	1435.7	1432.3	1445.9
42.5°	1282.6	1279.2	1269.0	1245.2	1248.6	1231.6	1218.0	1218.0	1211.2	1207.8	1211.2
45°	1109.1	1098.9	1081.9	1054.7	1047.9	1034.3	1007.0	1000.2	990.0	990.0	993.4
47.5°	949.2	935.6	908.4	877.8	860.7	843.7	816.5	806.3	789.3	782.5	789.3
50°	816.5	792.7	758.7	714.5	697.4	677.0	649.8	632.8	615.8	609.0	605.6
52.5°	694.0	660.0	626.0	571.6	558.0	537.5	500.1	483.1	466.1	452.5	452.5
55°	588.6	558.0	510.3	459.3	438.9	418.5	381.0	357.2	340.2	333.4	326.6
57.5°	493.3	459.3	415.1	360.6	340.2	319.8	282.4	258.6	241.6	231.3	224.5
60°	415.1	377.6	333.4	285.8	262.0	241.6	204.1	180.3	163.3	153.1	146.3
62.5°	340.2	309.6	265.4	221.1	200.7	180.3	149.7	125.9	108.9	102.1	91.9
65°	285.8	255.2	214.3	176.9	159.9	139.5	112.3	91.9	78.2	68.0	61.2
67.5°	231.3	207.5	173.5	139.5	122.5	108.9	85.1	68.0	54.4	47.6	44.2
70°	183.7	159.9	132.7	105.5	95.3	81.7	64.6	47.6	40.8	34.0	30.6
72.5°	136.1	119.1	98.7	78.2	68.0	61.2	44.2	37.4	27.2	23.8	20.4
75°	98.7	85.1	71.4	54.4	47.6	44.2	34.0	23.8	20.4	17.0	13.6
77.5°	68.0	61.2	47.6	37.4	34.0	30.6	23.8	17.0	13.6	10.2	10.2
80°	44.2	37.4	30.6	23.8	23.8	20.4	13.6	10.2	10.2	6.8	6.8
82.5°	27.2	23.8	20.4	17.0	13.6	13.6	10.2	6.8	6.8	3.4	3.4
85°	17.0	13.6	10.2	10.2	6.8	6.8	6.8	3.4	3.4	3.4	3.4
87.5°	6.8	6.8	6.8	3.4	3.4	3.4	3.4	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



TEST NUMBER: P252297

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0
2.5°	2813.6	2813.6	2820.4	2810.2	2817.0	2817.0	2823.8	2810.2	2817.0	2820.4	2827.2
5°	2800.0	2803.4	2810.2	2806.8	2810.2	2810.2	2817.0	2800.0	2813.6	2813.6	2823.8
7.5°	2786.4	2786.4	2793.2	2789.8	2796.6	2800.0	2806.8	2793.2	2806.8	2806.8	2817.0
10°	2769.4	2769.4	2779.6	2776.2	2786.4	2789.8	2800.0	2786.4	2800.0	2803.4	2813.6
12.5°	2745.5	2748.9	2759.2	2759.2	2769.4	2776.2	2786.4	2779.6	2796.6	2800.0	2813.6
15°	2718.3	2725.1	2738.7	2735.3	2745.5	2755.7	2769.4	2759.2	2783.0	2789.8	2803.4
17.5°	2684.3	2691.1	2701.3	2701.3	2711.5	2718.3	2735.3	2728.5	2748.9	2752.3	2769.4
20°	2633.3	2643.5	2657.1	2653.7	2663.9	2670.7	2684.3	2677.5	2697.9	2704.7	2721.7
22.5°	2572.0	2578.8	2589.0	2589.0	2599.2	2606.1	2619.7	2609.5	2629.9	2633.3	2646.9
25°	2490.4	2497.2	2504.0	2507.4	2517.6	2521.0	2527.8	2521.0	2538.0	2541.4	2558.4
27.5°	2384.9	2388.3	2398.5	2398.5	2405.3	2408.7	2418.9	2405.3	2429.1	2429.1	2439.3
30°	2259.0	2255.6	2269.2	2262.4	2269.2	2269.2	2279.4	2272.6	2289.7	2282.8	2293.1
32.5°	2092.3	2099.1	2099.1	2092.3	2105.9	2102.5	2102.5	2095.7	2105.9	2109.3	2116.1
35°	1898.4	1908.6	1908.6	1912.0	1915.4	1905.2	1908.6	1888.2	1905.2	1908.6	1912.0
37.5°	1687.5	1677.3	1684.1	1673.9	1690.9	1670.5	1670.5	1656.9	1670.5	1670.5	1673.9
40°	1445.9	1442.5	1449.3	1442.5	1439.1	1435.7	1428.9	1418.7	1432.3	1425.5	1435.7
42.5°	1218.0	1214.6	1214.6	1207.8	1204.4	1204.4	1197.6	1190.8	1187.4	1187.4	1204.4
45°	983.2	990.0	983.2	979.8	986.6	979.8	983.2	969.6	976.4	969.6	976.4
47.5°	785.9	789.3	782.5	775.7	785.9	775.7	775.7	765.5	779.1	779.1	772.3
50°	609.0	605.6	598.8	605.6	602.2	602.2	602.2	592.0	598.8	588.6	595.4
52.5°	449.1	445.7	445.7	442.3	445.7	442.3	442.3	438.9	438.9	435.5	438.9
55°	326.6	323.2	316.4	316.4	316.4	319.8	316.4	313.0	313.0	309.6	313.0
57.5°	221.1	214.3	214.3	214.3	214.3	210.9	210.9	207.5	210.9	207.5	210.9
60°	142.9	142.9	136.1	136.1	136.1	136.1	136.1	132.7	136.1	136.1	136.1
62.5°	88.5	88.5	85.1	81.7	85.1	81.7	81.7	81.7	85.1	81.7	85.1
65°	57.8	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
67.5°	40.8	37.4	37.4	37.4	37.4	37.4	37.4	34.0	37.4	37.4	37.4
70°	27.2	27.2	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
72.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
75°	13.6	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
77.5°	10.2	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	6.8	6.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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: P252297

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0	2817.0
2.5°	2817.0	2820.4	2813.6	2817.0	2810.2	2817.0	2820.4	2827.2
5°	2810.2	2813.6	2806.8	2813.6	2806.8	2813.6	2817.0	2823.8
7.5°	2803.4	2810.2	2803.4	2810.2	2803.4	2810.2	2813.6	2820.4
10°	2803.4	2813.6	2806.8	2817.0	2806.8	2813.6	2820.4	2823.8
12.5°	2803.4	2813.6	2810.2	2817.0	2813.6	2820.4	2827.2	2834.0
15°	2796.6	2806.8	2800.0	2810.2	2806.8	2810.2	2823.8	2823.8
17.5°	2759.2	2769.4	2769.4	2776.2	2776.2	2786.4	2793.2	2800.0
20°	2711.5	2721.7	2718.3	2728.5	2728.5	2738.7	2745.5	2752.3
22.5°	2640.1	2653.7	2650.3	2660.5	2657.1	2663.9	2677.5	2674.1
25°	2548.2	2565.2	2561.8	2568.6	2565.2	2565.2	2572.0	2575.4
27.5°	2435.9	2446.2	2442.7	2449.6	2442.7	2449.6	2456.4	2459.8
30°	2289.7	2296.5	2293.1	2296.5	2293.1	2299.9	2303.3	2310.1
32.5°	2112.7	2122.9	2112.7	2119.5	2116.1	2116.1	2129.8	2122.9
35°	1901.8	1905.2	1908.6	1908.6	1901.8	1905.2	1912.0	1912.0
37.5°	1667.1	1684.1	1663.7	1673.9	1670.5	1670.5	1670.5	1680.7
40°	1422.1	1425.5	1418.7	1418.7	1418.7	1415.3	1428.9	1425.5
42.5°	1190.8	1194.2	1190.8	1180.5	1184.0	1184.0	1194.2	1180.5
45°	966.2	973.0	969.6	969.6	962.8	962.8	966.2	959.4
47.5°	765.5	772.3	762.1	765.5	758.7	765.5	762.1	768.9
50°	581.8	588.6	585.2	588.6	588.6	581.8	592.0	578.4
52.5°	435.5	438.9	435.5	432.1	428.7	428.7	435.5	432.1
55°	309.6	306.2	306.2	306.2	309.6	309.6	306.2	302.8
57.5°	207.5	207.5	204.1	204.1	207.5	200.7	204.1	200.7
60°	132.7	132.7	132.7	132.7	129.3	132.7	132.7	132.7
62.5°	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
65°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
67.5°	34.0	37.4	37.4	37.4	34.0	34.0	34.0	34.0
70°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
72.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
75°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	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)