

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: P252714

Luminaire Tested: **LD6B50D010TE EU6B30508030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B50D010TE EU6B30508030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4990.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

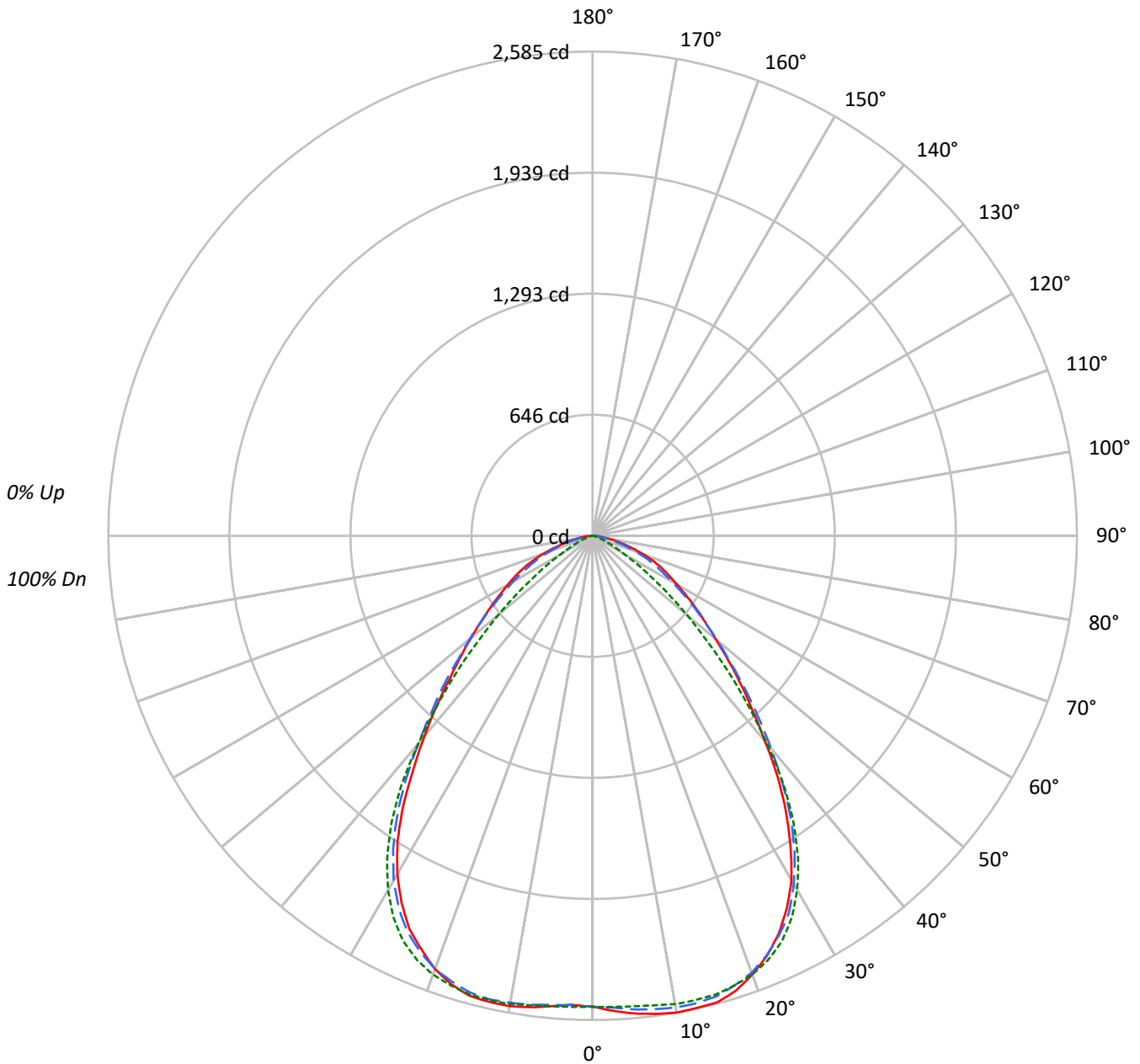
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252714

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252714

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	164021	164021	164021
5°	167674	165113	165113
10°	171262	168201	168904
15°	174130	171246	171726
20°	173062	173062	170841
25°	168942	172016	166638
30°	159925	164483	156980
35°	143304	148966	140476
40°	121744	123260	118712
45°	103022	94165	99415
50°	86982	66409	85896
55°	76447	42870	75639
60°	67746	25522	68203
65°	62583	15375	62583
70°	54269	8813	52914
75°	43028	5369	40331
80°	32048	4020	30733
85°	29268	2695	26648



TEST NUMBER: P252714

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	4.9
10°-20°	716.4	14.4
20°-30°	1077.4	21.6
30°-40°	1132.7	22.7
40°-50°	846.2	17.0
50°-60°	526.8	10.6
60°-70°	299.6	6.0
70°-80°	123.4	2.5
80°-90°	25.5	0.5
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°	2035.8	40.8
0°-40°	3168.5	63.5
0°-60°	4541.5	91.0
0°-90°	4990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4990.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2514	2514	2514	2514	2514	
5°	2560	2539	2521	2514	2521	245
15°	2578	2546	2535	2525	2542	725
25°	2347	2354	2390	2336	2315	1074
35°	1799	1846	1870	1817	1764	1117
45°	1117	1142	1021	1120	1078	865
55°	672	658	377	647	665	604
65°	405	363	100	363	405	399
75°	171	135	21	132	160	185
85°	39	25	4	21	36	44
90°	0	0	0	0	0	



TEST NUMBER: P252714

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1
2.5°	2539.0	2535.4	2539.0	2531.8	2528.3	2528.3	2531.8	2524.7	2521.2	2524.7	2521.2
5°	2560.3	2553.2	2556.7	2553.2	2546.1	2546.1	2549.6	2539.0	2539.0	2542.5	2539.0
7.5°	2574.5	2574.5	2574.5	2567.4	2563.9	2560.3	2567.4	2556.7	2553.2	2553.2	2549.6
10°	2585.2	2581.6	2585.2	2578.1	2571.0	2567.4	2574.5	2567.4	2560.3	2567.4	2556.7
12.5°	2581.6	2581.6	2581.6	2578.1	2571.0	2567.4	2574.5	2563.9	2560.3	2563.9	2556.7
15°	2578.1	2567.4	2571.0	2567.4	2556.7	2556.7	2560.3	2549.6	2542.5	2553.2	2546.1
17.5°	2546.1	2539.0	2542.5	2535.4	2528.3	2524.7	2528.3	2524.7	2517.6	2524.7	2517.6
20°	2492.7	2492.7	2496.3	2489.2	2482.1	2478.5	2485.6	2478.5	2471.4	2482.1	2482.1
22.5°	2428.7	2428.7	2428.7	2425.2	2421.6	2421.6	2421.6	2418.1	2414.5	2421.6	2425.2
25°	2346.9	2343.4	2346.9	2350.5	2346.9	2343.4	2346.9	2346.9	2339.8	2354.1	2354.1
27.5°	2243.8	2243.8	2250.9	2247.4	2247.4	2243.8	2250.9	2250.9	2247.4	2258.0	2268.7
30°	2122.9	2115.8	2122.9	2122.9	2126.5	2126.5	2130.0	2130.0	2130.0	2140.7	2147.8
32.5°	1966.4	1970.0	1980.7	1977.1	1973.6	1984.2	1984.2	1991.3	1994.9	2002.0	2005.6
35°	1799.3	1802.9	1802.9	1806.4	1813.5	1806.4	1824.2	1820.7	1824.2	1838.4	1845.5
37.5°	1621.5	1610.9	1628.6	1621.5	1625.1	1625.1	1632.2	1635.7	1646.4	1664.2	1664.2
40°	1429.5	1433.1	1440.2	1443.7	1447.3	1447.3	1447.3	1457.9	1461.5	1482.8	1479.3
42.5°	1262.4	1262.4	1269.5	1273.0	1273.0	1273.0	1273.0	1283.7	1290.8	1297.9	1305.0
45°	1116.6	1105.9	1113.0	1113.0	1120.1	1116.6	1123.7	1130.8	1134.4	1145.0	1141.5
47.5°	977.9	974.3	977.9	981.4	977.9	981.4	985.0	988.6	992.1	992.1	992.1
50°	857.0	857.0	860.5	864.1	864.1	864.1	864.1	867.7	867.7	874.8	867.7
52.5°	757.4	761.0	761.0	757.4	761.0	761.0	764.5	764.5	761.0	761.0	750.3
55°	672.1	668.5	672.1	668.5	672.1	672.1	668.5	668.5	665.0	661.4	657.9
57.5°	590.3	590.3	590.3	590.3	586.7	590.3	586.7	583.2	583.2	576.1	565.4
60°	519.2	519.2	519.2	519.2	519.2	515.6	519.2	515.6	508.5	501.4	487.2
62.5°	458.7	455.2	458.7	455.2	455.2	451.6	451.6	448.1	440.9	433.8	419.6
65°	405.4	408.9	405.4	405.4	401.8	398.3	398.3	394.7	384.0	376.9	362.7
67.5°	348.5	344.9	344.9	344.9	341.4	341.4	341.4	334.3	327.1	316.5	302.3
70°	284.5	284.5	284.5	280.9	280.9	277.4	277.4	273.8	266.7	259.6	241.8
72.5°	224.0	224.0	224.0	216.9	220.5	216.9	216.9	209.8	206.2	195.6	184.9
75°	170.7	170.7	167.1	167.1	163.6	160.0	160.0	156.5	152.9	145.8	135.1
77.5°	124.5	124.5	124.5	120.9	117.3	113.8	113.8	110.2	106.7	103.1	96.0
80°	85.3	85.3	85.3	85.3	81.8	78.2	78.2	74.7	74.7	71.1	64.0
82.5°	56.9	56.9	56.9	56.9	53.3	53.3	53.3	49.8	46.2	46.2	39.1
85°	39.1	39.1	35.6	35.6	35.6	35.6	32.0	32.0	28.4	24.9	24.9
87.5°	21.3	21.3	21.3	21.3	17.8	17.8	17.8	17.8	14.2	14.2	10.7
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: P252714

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1
2.5°	2531.8	2531.8	2528.3	2517.6	2521.2	2517.6	2521.2	2517.6	2507.0	2517.6	2507.0
5°	2546.1	2549.6	2542.5	2528.3	2531.8	2528.3	2528.3	2524.7	2514.1	2521.2	2514.1
7.5°	2560.3	2556.7	2553.2	2539.0	2542.5	2539.0	2539.0	2531.8	2521.2	2528.3	2517.6
10°	2567.4	2567.4	2560.3	2546.1	2546.1	2542.5	2546.1	2542.5	2528.3	2539.0	2531.8
12.5°	2567.4	2563.9	2563.9	2546.1	2549.6	2546.1	2549.6	2542.5	2531.8	2539.0	2535.4
15°	2556.7	2556.7	2553.2	2535.4	2539.0	2539.0	2542.5	2535.4	2524.7	2535.4	2528.3
17.5°	2535.4	2535.4	2531.8	2517.6	2524.7	2524.7	2528.3	2521.2	2510.5	2517.6	2517.6
20°	2492.7	2496.3	2496.3	2485.6	2492.7	2492.7	2496.3	2492.7	2489.2	2492.7	2485.6
22.5°	2442.9	2450.1	2450.1	2439.4	2446.5	2446.5	2457.2	2453.6	2446.5	2450.1	2446.5
25°	2368.3	2375.4	2382.5	2375.4	2382.5	2382.5	2393.2	2389.6	2382.5	2389.6	2378.9
27.5°	2282.9	2286.5	2293.6	2286.5	2297.2	2293.6	2304.3	2300.7	2290.0	2300.7	2297.2
30°	2162.0	2176.3	2186.9	2176.3	2186.9	2186.9	2194.0	2190.5	2186.9	2183.4	2183.4
32.5°	2026.9	2041.1	2041.1	2037.6	2044.7	2044.7	2048.2	2041.1	2037.6	2041.1	2044.7
35°	1859.8	1866.9	1874.0	1870.4	1874.0	1877.6	1874.0	1877.6	1866.9	1870.4	1870.4
37.5°	1678.4	1685.5	1685.5	1674.9	1682.0	1682.0	1674.9	1674.9	1667.7	1674.9	1660.6
40°	1486.4	1479.3	1482.8	1475.7	1468.6	1468.6	1465.1	1450.8	1443.7	1447.3	1450.8
42.5°	1297.9	1297.9	1287.3	1269.5	1251.7	1251.7	1241.0	1233.9	1219.7	1226.8	1223.3
45°	1137.9	1120.1	1105.9	1077.5	1066.8	1059.7	1041.9	1024.1	1017.0	1020.6	1017.0
47.5°	985.0	970.8	935.2	896.1	885.4	874.8	853.4	832.1	825.0	817.9	817.9
50°	857.0	832.1	793.0	750.3	732.5	714.7	686.3	665.0	650.7	654.3	654.3
52.5°	739.6	711.2	665.0	611.6	590.3	569.0	544.1	519.2	508.5	504.9	504.9
55°	636.5	604.5	558.3	497.8	480.1	455.2	423.2	394.7	380.5	376.9	384.0
57.5°	544.1	515.6	462.3	401.8	380.5	355.6	323.6	298.7	280.9	277.4	280.9
60°	469.4	430.3	384.0	327.1	298.7	277.4	241.8	220.5	202.7	195.6	199.1
62.5°	394.7	359.2	312.9	256.0	234.7	213.4	181.4	156.5	142.2	138.7	142.2
65°	337.8	302.3	259.6	209.8	188.5	167.1	138.7	113.8	103.1	99.6	103.1
67.5°	280.9	248.9	213.4	167.1	149.4	131.6	103.1	85.3	71.1	67.6	71.1
70°	227.6	199.1	163.6	131.6	113.8	99.6	78.2	60.5	49.8	46.2	49.8
72.5°	170.7	149.4	124.5	96.0	85.3	74.7	56.9	42.7	35.6	32.0	35.6
75°	124.5	106.7	88.9	67.6	60.5	53.3	39.1	28.4	24.9	21.3	24.9
77.5°	85.3	74.7	60.5	46.2	39.1	35.6	24.9	21.3	17.8	14.2	14.2
80°	56.9	49.8	39.1	32.0	28.4	24.9	17.8	14.2	10.7	10.7	10.7
82.5°	35.6	28.4	24.9	17.8	14.2	14.2	10.7	7.1	7.1	7.1	7.1
85°	21.3	17.8	14.2	10.7	7.1	7.1	3.6	3.6	3.6	3.6	3.6
87.5°	10.7	7.1	7.1	3.6	3.6	3.6	3.6	3.6	0.0	0.0	3.6
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: P252714

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1
2.5°	2514.1	2507.0	2507.0	2510.5	2514.1	2517.6	2510.5	2507.0	2507.0	2517.6	2510.5
5°	2514.1	2510.5	2510.5	2510.5	2517.6	2521.2	2514.1	2510.5	2514.1	2524.7	2521.2
7.5°	2524.7	2517.6	2521.2	2521.2	2524.7	2531.8	2524.7	2521.2	2524.7	2535.4	2528.3
10°	2531.8	2524.7	2528.3	2524.7	2535.4	2539.0	2531.8	2528.3	2531.8	2546.1	2542.5
12.5°	2535.4	2531.8	2531.8	2528.3	2539.0	2542.5	2535.4	2531.8	2535.4	2546.1	2542.5
15°	2528.3	2524.7	2524.7	2524.7	2531.8	2539.0	2528.3	2524.7	2524.7	2535.4	2531.8
17.5°	2514.1	2507.0	2507.0	2507.0	2510.5	2514.1	2503.4	2499.8	2496.3	2507.0	2503.4
20°	2489.2	2482.1	2475.0	2475.0	2478.5	2478.5	2471.4	2460.7	2460.7	2464.3	2457.2
22.5°	2442.9	2439.4	2432.3	2428.7	2435.8	2432.3	2418.1	2407.4	2403.8	2407.4	2400.3
25°	2378.9	2371.8	2368.3	2364.7	2368.3	2364.7	2350.5	2336.3	2336.3	2336.3	2325.6
27.5°	2290.0	2282.9	2279.4	2279.4	2282.9	2275.8	2261.6	2247.4	2240.3	2240.3	2229.6
30°	2176.3	2176.3	2172.7	2169.1	2165.6	2165.6	2144.2	2130.0	2122.9	2126.5	2119.4
32.5°	2037.6	2034.0	2030.5	2019.8	2023.3	2019.8	2002.0	1991.3	1980.7	1973.6	1970.0
35°	1859.8	1859.8	1856.2	1856.2	1856.2	1852.7	1834.9	1824.2	1817.1	1813.5	1802.9
37.5°	1664.2	1660.6	1657.1	1657.1	1657.1	1657.1	1646.4	1635.7	1635.7	1632.2	1625.1
40°	1443.7	1447.3	1450.8	1447.3	1457.9	1468.6	1454.4	1447.3	1443.7	1454.4	1440.2
42.5°	1230.4	1226.8	1244.6	1248.1	1248.1	1265.9	1269.5	1273.0	1269.5	1276.6	1276.6
45°	1024.1	1020.6	1038.3	1045.5	1063.2	1084.6	1095.2	1113.0	1120.1	1127.2	1120.1
47.5°	828.5	842.8	857.0	874.8	889.0	924.6	945.9	963.7	970.8	981.4	981.4
50°	665.0	679.2	704.1	718.3	736.1	778.8	814.3	839.2	853.4	864.1	860.5
52.5°	512.1	537.0	569.0	583.2	608.1	657.9	697.0	725.4	743.2	753.9	757.4
55°	394.7	416.0	448.1	469.4	494.3	547.6	597.4	629.4	647.2	661.4	668.5
57.5°	291.6	316.5	352.0	369.8	398.3	458.7	501.4	540.5	561.8	579.6	583.2
60°	213.4	238.2	270.3	291.6	320.0	380.5	430.3	465.8	490.7	504.9	512.1
62.5°	152.9	177.8	209.8	231.1	256.0	309.4	359.2	394.7	419.6	437.4	448.1
65°	110.2	135.1	167.1	184.9	206.2	256.0	302.3	337.8	362.7	384.0	391.2
67.5°	81.8	99.6	128.0	145.8	167.1	206.2	245.4	277.4	302.3	320.0	327.1
70°	60.5	74.7	99.6	110.2	124.5	160.0	192.0	220.5	241.8	256.0	263.1
72.5°	42.7	53.3	71.1	81.8	92.5	120.9	145.8	167.1	181.4	195.6	202.7
75°	28.4	35.6	49.8	56.9	64.0	85.3	103.1	120.9	131.6	142.2	145.8
77.5°	17.8	24.9	35.6	39.1	46.2	56.9	71.1	81.8	88.9	96.0	103.1
80°	10.7	14.2	21.3	24.9	28.4	39.1	46.2	53.3	60.5	67.6	71.1
82.5°	7.1	10.7	14.2	14.2	17.8	21.3	28.4	35.6	39.1	42.7	46.2
85°	3.6	3.6	7.1	7.1	10.7	10.7	14.2	17.8	21.3	24.9	28.4
87.5°	3.6	3.6	3.6	3.6	7.1	7.1	10.7	10.7	10.7	14.2	14.2
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: P252714

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1	2514.1
2.5°	2503.4	2514.1	2503.4	2510.5	2507.0	2507.0	2503.4	2507.0
5°	2514.1	2528.3	2514.1	2524.7	2517.6	2517.6	2517.6	2521.2
7.5°	2524.7	2539.0	2528.3	2539.0	2535.4	2531.8	2531.8	2539.0
10°	2535.4	2546.1	2539.0	2549.6	2546.1	2542.5	2542.5	2549.6
12.5°	2535.4	2549.6	2542.5	2553.2	2549.6	2546.1	2546.1	2549.6
15°	2524.7	2542.5	2531.8	2542.5	2539.0	2535.4	2535.4	2542.5
17.5°	2492.7	2507.0	2499.8	2507.0	2507.0	2503.4	2507.0	2510.5
20°	2450.1	2460.7	2453.6	2460.7	2460.7	2453.6	2457.2	2460.7
22.5°	2389.6	2400.3	2393.2	2400.3	2396.7	2393.2	2393.2	2389.6
25°	2314.9	2329.2	2318.5	2325.6	2318.5	2311.4	2311.4	2314.9
27.5°	2222.5	2233.1	2218.9	2226.0	2218.9	2211.8	2211.8	2208.3
30°	2101.6	2105.1	2094.5	2101.6	2094.5	2090.9	2083.8	2083.8
32.5°	1955.8	1959.3	1948.7	1948.7	1941.6	1941.6	1927.3	1938.0
35°	1785.1	1788.7	1785.1	1781.5	1770.9	1767.3	1763.8	1763.8
37.5°	1607.3	1607.3	1596.6	1593.1	1586.0	1578.8	1582.4	1571.7
40°	1425.9	1422.4	1411.7	1415.3	1411.7	1401.1	1397.5	1393.9
42.5°	1255.3	1255.3	1244.6	1248.1	1241.0	1237.5	1226.8	1230.4
45°	1105.9	1105.9	1095.2	1095.2	1091.7	1081.0	1084.6	1077.5
47.5°	970.8	970.8	967.2	967.2	956.6	953.0	953.0	953.0
50°	853.4	853.4	853.4	853.4	849.9	846.3	842.8	846.3
52.5°	753.9	761.0	757.4	757.4	753.9	750.3	746.8	746.8
55°	665.0	668.5	668.5	672.1	668.5	665.0	668.5	665.0
57.5°	586.7	593.8	593.8	593.8	593.8	593.8	590.3	586.7
60°	519.2	522.7	522.7	526.3	526.3	526.3	522.7	522.7
62.5°	451.6	458.7	462.3	462.3	465.8	462.3	462.3	462.3
65°	398.3	405.4	408.9	405.4	408.9	408.9	405.4	405.4
67.5°	334.3	341.4	341.4	341.4	341.4	344.9	341.4	341.4
70°	270.3	277.4	273.8	277.4	277.4	277.4	277.4	277.4
72.5°	206.2	209.8	213.4	213.4	216.9	213.4	213.4	213.4
75°	149.4	156.5	156.5	156.5	156.5	160.0	160.0	160.0
77.5°	106.7	110.2	110.2	113.8	113.8	113.8	113.8	117.3
80°	74.7	74.7	78.2	78.2	81.8	81.8	81.8	81.8
82.5°	49.8	53.3	53.3	53.3	53.3	53.3	53.3	53.3
85°	28.4	32.0	32.0	32.0	32.0	35.6	35.6	35.6
87.5°	17.8	17.8	17.8	17.8	17.8	17.8	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)