

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: P212847

Luminaire Tested: **LD6B50D010TE EU6B30509730 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B50D010TE EU6B30509730 6LBSWL11
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3812.6 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

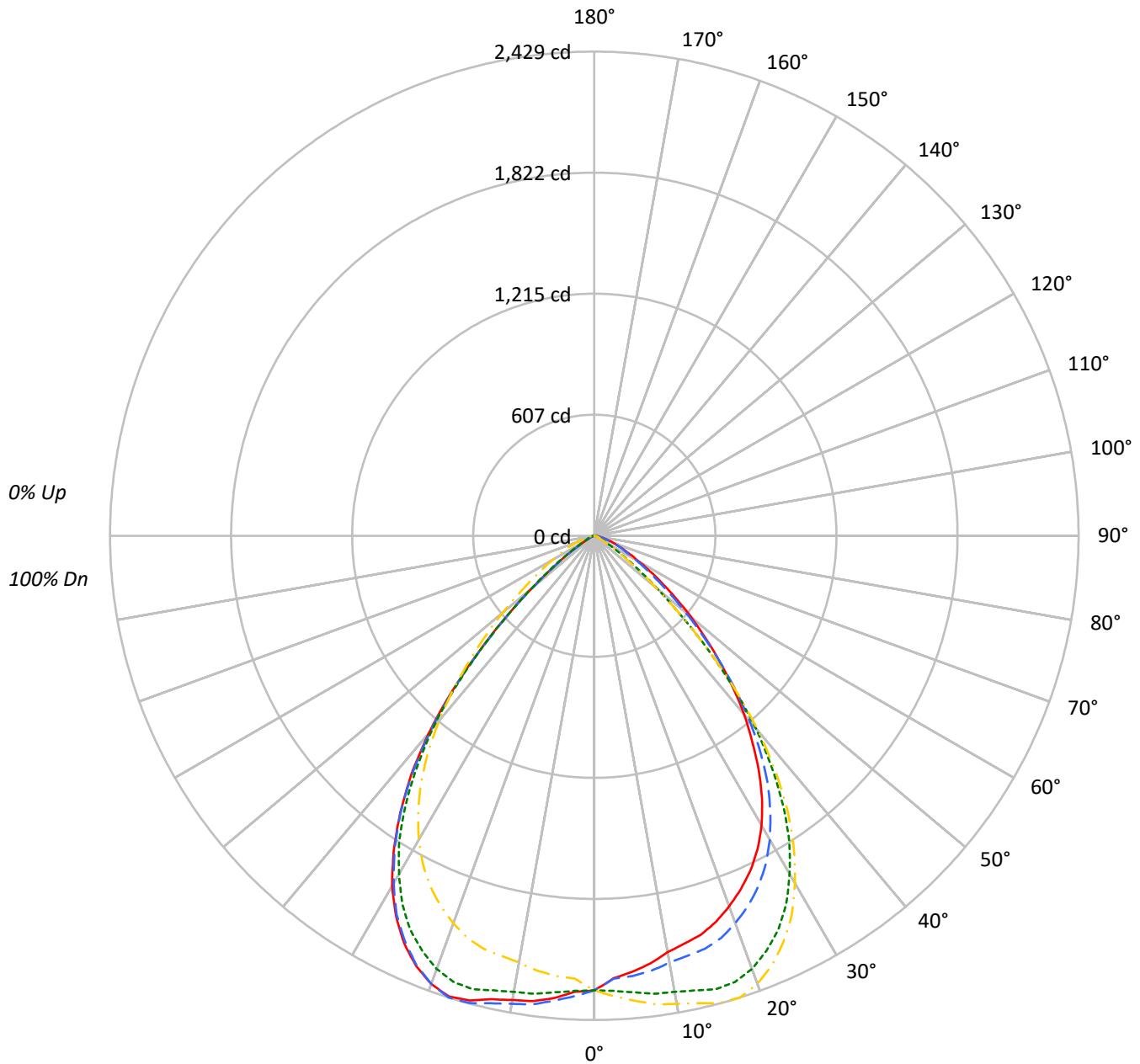
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212847

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBSWL11

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	100	98		99	97	96		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	91	84	80	96	89	84	79	86	82	78		84	80	76		81
4	92	83	76	71	90	82	75	70	79	74	70		77	73	69		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64
7	76	64	57	52	74	64	57	52	62	56	52		61	56	51		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	67	55	48	44	66	55	48	44	54	48	43		53	47	43		52
10	63	52	45	40	62	51	45	40	50	44	40		49	44	40		49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	125012	125012	125012	125012
5°	120812	126513	128120	126513
10°	118073	129306	131666	129306
15°	117521	133639	136953	133639
20°	115376	134890	139540	134890
25°	112083	131996	136490	131996
30°	106206	124019	128387	124019
35°	96289	110503	113528	110503
40°	83592	90047	92330	90047
45°	68534	62154	62565	62154
50°	53883	34865	34191	34865
55°	39836	17251	15474	17251
60°	28232	7565	5526	7565
65°	21001	4825	3437	4825
70°	15323	3831	2549	3831
75°	11247	2817	1694	2817
80°	7545	2526	852	2526
85°	5032	1698	1698	1698



TEST NUMBER: P212847

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBSWL11

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	5.7
10°-20°	646.6	17.0
20°-30°	964.9	25.3
30°-40°	991.3	26.0
40°-50°	642.0	16.8
50°-60°	238.7	6.3
60°-70°	78.3	2.1
70°-80°	27.6	0.7
80°-90°	5.0	0.1
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°	1829.7	48.0
0°-40°	2821.1	74.0
0°-60°	3701.7	97.1
0°-90°	3812.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2280	2280	2280	2280	2280	
5°	2195	2299	2328	2299	2195	207
15°	2071	2355	2413	2355	2071	582
25°	1853	2182	2256	2182	1853	849
35°	1439	1651	1696	1651	1439	893
45°	884	802	807	802	884	684
55°	417	180	162	180	417	380
65°	162	37	26	37	162	165
75°	53	13	8	13	53	58
85°	8	3	3	3	8	10
90°	0	0	0	0	0	



TEST NUMBER: P212847

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBSWL11

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4
2.5°	2222.0	2253.8	2232.6	2245.9	2224.6	2224.6	2267.1	2243.2	2261.8	2243.2	2224.6
5°	2195.4	2235.3	2208.7	2222.0	2203.4	2206.1	2245.9	2227.3	2245.9	2232.6	2216.7
7.5°	2163.6	2203.4	2179.5	2192.8	2174.2	2179.5	2222.0	2203.4	2224.6	2211.4	2200.7
10°	2121.1	2163.6	2142.3	2155.6	2139.7	2142.3	2184.8	2171.5	2190.1	2182.2	2174.2
12.5°	2094.6	2134.4	2110.5	2123.8	2113.1	2118.4	2158.3	2147.6	2171.5	2163.6	2158.3
15°	2070.7	2107.8	2086.6	2099.9	2091.9	2094.6	2137.0	2126.4	2153.0	2147.6	2145.0
17.5°	2030.8	2070.7	2046.8	2062.7	2054.7	2057.4	2099.9	2091.9	2118.4	2118.4	2115.8
20°	1977.7	2017.6	1999.0	2009.6	2004.3	2009.6	2046.8	2041.5	2068.0	2068.0	2068.0
22.5°	1919.3	1959.2	1937.9	1948.5	1943.2	1951.2	1985.7	1985.7	2006.9	2009.6	2012.3
25°	1853.0	1892.8	1871.6	1884.8	1879.5	1884.8	1916.7	1919.3	1937.9	1937.9	1943.2
27.5°	1773.3	1813.2	1791.9	1802.5	1799.9	1802.5	1837.0	1842.4	1853.0	1855.6	1860.9
30°	1677.8	1714.9	1693.7	1704.3	1704.3	1704.3	1738.8	1741.5	1752.1	1754.8	1760.1
32.5°	1566.3	1598.1	1582.2	1592.8	1590.2	1595.5	1619.4	1630.0	1643.3	1640.6	1643.3
35°	1438.8	1473.4	1457.4	1465.4	1468.0	1476.0	1491.9	1505.2	1507.9	1510.5	1515.8
37.5°	1300.8	1335.3	1319.4	1327.3	1330.0	1345.9	1351.2	1364.5	1369.8	1369.8	1369.8
40°	1168.1	1184.0	1170.7	1178.7	1181.3	1194.6	1199.9	1210.5	1215.9	1213.2	1210.5
42.5°	1024.7	1038.0	1024.7	1032.7	1032.7	1043.3	1046.0	1059.2	1059.2	1053.9	1046.0
45°	884.0	897.3	884.0	889.3	889.3	899.9	899.9	899.9	905.3	897.3	884.0
47.5°	751.3	764.6	751.3	756.6	753.9	761.9	759.2	761.9	753.9	748.6	732.7
50°	631.8	637.1	631.8	629.2	631.8	637.1	634.5	634.5	623.9	615.9	597.3
52.5°	515.0	523.0	515.0	515.0	515.0	520.3	520.3	517.7	507.0	496.4	477.8
55°	416.8	422.1	419.4	416.8	416.8	422.1	416.8	416.8	406.2	398.2	379.6
57.5°	331.8	334.5	331.8	331.8	331.8	334.5	334.5	329.2	321.2	313.3	300.0
60°	257.5	260.2	260.2	257.5	257.5	262.8	262.8	260.2	252.2	246.9	233.6
62.5°	204.4	204.4	204.4	204.4	204.4	207.1	207.1	207.1	201.8	196.4	185.8
65°	161.9	164.6	161.9	161.9	164.6	167.2	164.6	167.2	161.9	159.3	151.3
67.5°	124.8	127.4	124.8	127.4	127.4	130.1	127.4	130.1	124.8	122.1	116.8
70°	95.6	95.6	95.6	95.6	95.6	98.2	95.6	98.2	95.6	92.9	87.6
72.5°	71.7	71.7	74.3	74.3	71.7	74.3	71.7	71.7	71.7	69.0	66.4
75°	53.1	53.1	55.7	53.1	53.1	53.1	53.1	53.1	50.4	50.4	47.8
77.5°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	34.5	34.5	31.9
80°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	21.2	21.2
82.5°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	13.3	13.3
85°	8.0	8.0	8.0	10.6	8.0	8.0	8.0	8.0	8.0	8.0	8.0
87.5°	2.7	2.7	2.7	5.3	2.7	2.7	5.3	5.3	2.7	2.7	2.7
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: P212847

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBSWL11

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4
2.5°	2245.9	2253.8	2253.8	2245.9	2264.5	2248.5	2280.4	2251.2	2259.1	2285.7	2283.0
5°	2237.9	2248.5	2251.2	2245.9	2269.8	2256.5	2288.3	2259.1	2272.4	2299.0	2299.0
7.5°	2227.3	2240.6	2245.9	2251.2	2272.4	2259.1	2296.3	2267.1	2285.7	2317.5	2314.9
10°	2203.4	2222.0	2232.6	2240.6	2261.8	2253.8	2293.7	2269.8	2285.7	2322.9	2320.2
12.5°	2190.1	2211.4	2227.3	2240.6	2264.5	2259.1	2299.0	2277.7	2299.0	2336.1	2336.1
15°	2179.5	2203.4	2222.0	2245.9	2269.8	2264.5	2306.9	2288.3	2309.6	2354.7	2352.1
17.5°	2153.0	2182.2	2200.7	2227.3	2251.2	2248.5	2293.7	2280.4	2304.3	2346.8	2349.4
20°	2107.8	2134.4	2155.6	2187.5	2214.0	2208.7	2256.5	2243.2	2267.1	2312.2	2314.9
22.5°	2049.4	2076.0	2097.2	2131.7	2155.6	2153.0	2200.7	2187.5	2211.4	2253.8	2256.5
25°	1980.4	2004.3	2025.5	2057.4	2083.9	2083.9	2126.4	2113.1	2139.7	2182.2	2182.2
27.5°	1895.5	1916.7	1935.3	1972.4	1993.7	1993.7	2033.5	2020.2	2046.8	2083.9	2081.3
30°	1791.9	1810.5	1826.4	1858.3	1876.9	1879.5	1914.0	1900.8	1927.3	1959.2	1959.2
32.5°	1667.1	1685.7	1696.4	1736.2	1749.4	1746.8	1773.3	1760.1	1786.6	1821.1	1813.2
35°	1534.4	1542.4	1550.3	1590.2	1595.5	1584.9	1611.4	1598.1	1616.7	1651.2	1645.9
37.5°	1383.1	1385.8	1385.8	1420.3	1422.9	1415.0	1430.9	1415.0	1428.2	1460.1	1457.4
40°	1215.9	1213.2	1210.5	1237.1	1234.4	1218.5	1229.1	1215.9	1234.4	1258.3	1245.1
42.5°	1046.0	1038.0	1027.4	1040.6	1030.0	1016.7	1022.1	1000.8	1014.1	1032.7	1016.7
45°	878.7	862.8	841.5	844.2	830.9	815.0	807.0	785.8	783.1	801.7	788.4
47.5°	722.1	690.2	671.6	661.0	639.8	626.5	610.6	586.7	576.1	586.7	573.4
50°	581.4	549.5	525.6	501.7	480.5	464.6	438.0	422.1	406.2	408.8	398.2
52.5°	459.3	438.0	398.2	379.6	358.4	339.8	315.9	297.3	278.7	278.7	268.1
55°	363.7	334.5	307.9	281.4	260.2	244.2	220.3	201.8	183.2	180.5	169.9
57.5°	281.4	260.2	231.0	204.4	191.1	175.2	151.3	130.1	119.5	111.5	103.5
60°	217.7	196.4	172.6	151.3	135.4	124.8	100.9	85.0	74.3	69.0	61.1
62.5°	175.2	156.6	135.4	114.2	103.5	92.9	74.3	61.1	50.4	45.1	39.8
65°	140.7	124.8	108.8	92.9	85.0	74.3	61.1	50.4	42.5	37.2	31.9
67.5°	108.8	98.2	85.0	74.3	66.4	58.4	47.8	39.8	34.5	29.2	26.5
70°	82.3	74.3	66.4	55.7	50.4	45.1	37.2	29.2	26.5	23.9	21.2
72.5°	63.7	55.7	47.8	42.5	37.2	34.5	29.2	23.9	21.2	18.6	15.9
75°	42.5	39.8	34.5	29.2	26.5	23.9	21.2	18.6	15.9	13.3	13.3
77.5°	29.2	26.5	23.9	21.2	18.6	18.6	15.9	13.3	10.6	10.6	8.0
80°	18.6	15.9	15.9	13.3	13.3	13.3	10.6	8.0	8.0	8.0	5.3
82.5°	13.3	10.6	10.6	8.0	8.0	8.0	8.0	5.3	5.3	5.3	2.7
85°	8.0	5.3	5.3	5.3	5.3	5.3	5.3	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	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: P212847

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBSWL11

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4
2.5°	2261.8	2285.7	2285.7	2306.9	2309.6	2304.3	2280.4	2280.4	2312.2	2330.8	2299.0
5°	2283.0	2306.9	2306.9	2328.2	2338.8	2330.8	2306.9	2309.6	2341.4	2362.7	2330.8
7.5°	2301.6	2325.5	2330.8	2354.7	2362.7	2354.7	2330.8	2336.1	2370.6	2389.2	2357.4
10°	2309.6	2333.5	2336.1	2362.7	2373.3	2362.7	2344.1	2346.8	2383.9	2397.2	2368.0
12.5°	2328.2	2352.1	2352.1	2381.3	2391.9	2383.9	2360.0	2365.3	2402.5	2415.8	2386.6
15°	2346.8	2370.6	2370.6	2402.5	2415.8	2405.2	2386.6	2389.2	2426.4	2439.7	2415.8
17.5°	2346.8	2368.0	2368.0	2402.5	2415.8	2407.8	2386.6	2389.2	2429.0	2439.7	2415.8
20°	2312.2	2336.1	2330.8	2365.3	2378.6	2370.6	2352.1	2352.1	2391.9	2402.5	2378.6
22.5°	2256.5	2277.7	2272.4	2304.3	2320.2	2309.6	2293.7	2291.0	2330.8	2341.4	2317.5
25°	2179.5	2200.7	2195.4	2227.3	2243.2	2229.9	2211.4	2214.0	2245.9	2261.8	2240.6
27.5°	2089.2	2102.5	2094.6	2126.4	2142.3	2129.1	2110.5	2113.1	2145.0	2155.6	2139.7
30°	1967.1	1977.7	1969.8	1996.3	2006.9	1999.0	1983.1	1983.1	2012.3	2025.5	2009.6
32.5°	1821.1	1829.1	1821.1	1842.4	1863.6	1847.7	1831.7	1831.7	1863.6	1874.2	1855.6
35°	1651.2	1659.2	1653.9	1675.1	1691.0	1669.8	1656.5	1651.2	1693.7	1688.4	1677.8
37.5°	1462.7	1468.0	1452.1	1489.3	1497.2	1473.4	1462.7	1457.4	1494.6	1491.9	1481.3
40°	1250.4	1255.7	1245.1	1271.6	1274.3	1255.7	1247.7	1239.7	1276.9	1274.3	1266.3
42.5°	1024.7	1027.4	1014.1	1035.3	1040.6	1022.1	1019.4	1008.8	1043.3	1038.0	1035.3
45°	791.1	791.1	780.5	796.4	801.7	785.8	780.5	777.8	801.7	801.7	796.4
47.5°	573.4	565.5	552.2	576.1	578.7	568.1	565.5	557.5	581.4	581.4	576.1
50°	392.9	390.2	387.6	392.9	395.5	382.3	390.2	382.3	395.5	395.5	395.5
52.5°	262.8	260.2	254.9	260.2	260.2	252.2	252.2	249.5	260.2	260.2	254.9
55°	164.6	161.9	159.3	161.9	161.9	154.0	159.3	154.0	159.3	159.3	156.6
57.5°	100.9	95.6	95.6	92.9	92.9	87.6	90.3	90.3	90.3	90.3	90.3
60°	58.4	55.7	53.1	53.1	53.1	50.4	50.4	50.4	50.4	50.4	50.4
62.5°	37.2	37.2	34.5	34.5	34.5	34.5	34.5	31.9	34.5	34.5	34.5
65°	31.9	29.2	29.2	29.2	29.2	26.5	26.5	26.5	26.5	26.5	26.5
67.5°	26.5	23.9	23.9	23.9	23.9	21.2	21.2	21.2	21.2	21.2	21.2
70°	21.2	18.6	18.6	18.6	18.6	18.6	15.9	18.6	18.6	15.9	15.9
72.5°	15.9	15.9	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
75°	10.6	10.6	10.6	10.6	10.6	8.0	8.0	8.0	8.0	8.0	8.0
77.5°	8.0	8.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	5.3	5.3	5.3	5.3	5.3	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	2.7	2.7	2.7	2.7	2.7	0.0	2.7	0.0	2.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212847

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4
2.5°	2336.1	2309.6	2296.3	2322.9	2333.5	2320.2	2309.6	2291.0	2309.6	2320.2	2333.5
5°	2368.0	2344.1	2333.5	2352.1	2368.0	2354.7	2346.8	2328.2	2346.8	2354.7	2368.0
7.5°	2397.2	2373.3	2360.0	2378.6	2397.2	2378.6	2370.6	2354.7	2370.6	2378.6	2397.2
10°	2407.8	2381.3	2370.6	2386.6	2405.2	2386.6	2376.0	2365.3	2376.0	2386.6	2405.2
12.5°	2426.4	2399.8	2386.6	2399.8	2418.4	2399.8	2389.2	2381.3	2389.2	2399.8	2418.4
15°	2452.9	2429.0	2413.1	2426.4	2450.3	2429.0	2415.8	2413.1	2415.8	2429.0	2450.3
17.5°	2452.9	2434.4	2418.4	2429.0	2452.9	2437.0	2418.4	2423.7	2418.4	2437.0	2452.9
20°	2418.4	2399.8	2386.6	2386.6	2421.1	2399.8	2383.9	2391.9	2383.9	2399.8	2421.1
22.5°	2357.4	2341.4	2328.2	2325.5	2360.0	2341.4	2320.2	2336.1	2320.2	2341.4	2360.0
25°	2277.7	2261.8	2251.2	2245.9	2280.4	2259.1	2240.6	2256.5	2240.6	2259.1	2280.4
27.5°	2174.2	2160.9	2150.3	2142.3	2174.2	2155.6	2137.0	2153.0	2137.0	2155.6	2174.2
30°	2041.5	2033.5	2022.9	2012.3	2044.1	2025.5	2006.9	2028.2	2006.9	2025.5	2044.1
32.5°	1887.5	1882.2	1868.9	1858.3	1890.1	1868.9	1855.6	1871.6	1855.6	1868.9	1890.1
35°	1709.6	1701.7	1693.7	1675.1	1709.6	1691.0	1691.0	1696.4	1691.0	1691.0	1709.6
37.5°	1510.5	1505.2	1494.6	1478.7	1507.9	1494.6	1489.3	1505.2	1489.3	1494.6	1507.9
40°	1287.5	1284.9	1276.9	1258.3	1290.2	1276.9	1268.9	1290.2	1268.9	1276.9	1290.2
42.5°	1053.9	1048.6	1040.6	1038.0	1053.9	1043.3	1051.3	1051.3	1051.3	1043.3	1053.9
45°	812.3	807.0	801.7	791.1	809.7	804.4	801.7	807.0	801.7	804.4	809.7
47.5°	589.3	584.0	578.7	570.8	589.3	581.4	581.4	586.7	581.4	581.4	589.3
50°	395.5	398.2	395.5	390.2	395.5	392.9	395.5	400.9	395.5	392.9	395.5
52.5°	262.8	262.8	257.5	254.9	260.2	257.5	265.5	260.2	265.5	257.5	260.2
55°	159.3	161.9	159.3	156.6	159.3	156.6	164.6	161.9	164.6	156.6	159.3
57.5°	90.3	90.3	92.9	90.3	95.6	92.9	92.9	92.9	92.9	92.9	95.6
60°	50.4	50.4	50.4	50.4	50.4	50.4	53.1	50.4	53.1	50.4	50.4
62.5°	34.5	34.5	34.5	31.9	34.5	31.9	34.5	34.5	34.5	31.9	34.5
65°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
67.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
70°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
72.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
75°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212847

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4
2.5°	2322.9	2296.3	2309.6	2336.1	2299.0	2330.8	2312.2	2280.4	2280.4	2304.3	2309.6
5°	2352.1	2333.5	2344.1	2368.0	2330.8	2362.7	2341.4	2309.6	2306.9	2330.8	2338.8
7.5°	2378.6	2360.0	2373.3	2397.2	2357.4	2389.2	2370.6	2336.1	2330.8	2354.7	2362.7
10°	2386.6	2370.6	2381.3	2407.8	2368.0	2397.2	2383.9	2346.8	2344.1	2362.7	2373.3
12.5°	2399.8	2386.6	2399.8	2426.4	2386.6	2415.8	2402.5	2365.3	2360.0	2383.9	2391.9
15°	2426.4	2413.1	2429.0	2452.9	2415.8	2439.7	2426.4	2389.2	2386.6	2405.2	2415.8
17.5°	2429.0	2418.4	2434.4	2452.9	2415.8	2439.7	2429.0	2389.2	2386.6	2407.8	2415.8
20°	2386.6	2386.6	2399.8	2418.4	2378.6	2402.5	2391.9	2352.1	2352.1	2370.6	2378.6
22.5°	2325.5	2328.2	2341.4	2357.4	2317.5	2341.4	2330.8	2291.0	2293.7	2309.6	2320.2
25°	2245.9	2251.2	2261.8	2277.7	2240.6	2261.8	2245.9	2214.0	2211.4	2229.9	2243.2
27.5°	2142.3	2150.3	2160.9	2174.2	2139.7	2155.6	2145.0	2113.1	2110.5	2129.1	2142.3
30°	2012.3	2022.9	2033.5	2041.5	2009.6	2025.5	2012.3	1983.1	1983.1	1999.0	2006.9
32.5°	1858.3	1868.9	1882.2	1887.5	1855.6	1874.2	1863.6	1831.7	1831.7	1847.7	1863.6
35°	1675.1	1693.7	1701.7	1709.6	1677.8	1688.4	1693.7	1651.2	1656.5	1669.8	1691.0
37.5°	1478.7	1494.6	1505.2	1510.5	1481.3	1491.9	1494.6	1457.4	1462.7	1473.4	1497.2
40°	1258.3	1276.9	1284.9	1287.5	1266.3	1274.3	1276.9	1239.7	1247.7	1255.7	1274.3
42.5°	1038.0	1040.6	1048.6	1053.9	1035.3	1038.0	1043.3	1008.8	1019.4	1022.1	1040.6
45°	791.1	801.7	807.0	812.3	796.4	801.7	801.7	777.8	780.5	785.8	801.7
47.5°	570.8	578.7	584.0	589.3	576.1	581.4	581.4	557.5	565.5	568.1	578.7
50°	390.2	395.5	398.2	395.5	395.5	395.5	395.5	382.3	390.2	382.3	395.5
52.5°	254.9	257.5	262.8	262.8	254.9	260.2	260.2	249.5	252.2	252.2	260.2
55°	156.6	159.3	161.9	159.3	156.6	159.3	159.3	154.0	159.3	154.0	161.9
57.5°	90.3	92.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	87.6	92.9
60°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	53.1
62.5°	31.9	34.5	34.5	34.5	34.5	34.5	34.5	31.9	34.5	34.5	34.5
65°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	29.2
67.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	23.9
70°	15.9	15.9	15.9	15.9	15.9	15.9	18.6	18.6	15.9	18.6	18.6
72.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
75°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	10.6
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.3
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.7	0.0	2.7
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212847

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4
2.5°	2306.9	2285.7	2285.7	2261.8	2283.0	2285.7	2259.1	2251.2	2280.4	2248.5	2264.5
5°	2328.2	2306.9	2306.9	2283.0	2299.0	2299.0	2272.4	2259.1	2288.3	2256.5	2269.8
7.5°	2354.7	2330.8	2325.5	2301.6	2314.9	2317.5	2285.7	2267.1	2296.3	2259.1	2272.4
10°	2362.7	2336.1	2333.5	2309.6	2320.2	2322.9	2285.7	2269.8	2293.7	2253.8	2261.8
12.5°	2381.3	2352.1	2352.1	2328.2	2336.1	2336.1	2299.0	2277.7	2299.0	2259.1	2264.5
15°	2402.5	2370.6	2370.6	2346.8	2352.1	2354.7	2309.6	2288.3	2306.9	2264.5	2269.8
17.5°	2402.5	2368.0	2368.0	2346.8	2349.4	2346.8	2304.3	2280.4	2293.7	2248.5	2251.2
20°	2365.3	2330.8	2336.1	2312.2	2314.9	2312.2	2267.1	2243.2	2256.5	2208.7	2214.0
22.5°	2304.3	2272.4	2277.7	2256.5	2256.5	2253.8	2211.4	2187.5	2200.7	2153.0	2155.6
25°	2227.3	2195.4	2200.7	2179.5	2182.2	2182.2	2139.7	2113.1	2126.4	2083.9	2083.9
27.5°	2126.4	2094.6	2102.5	2089.2	2081.3	2083.9	2046.8	2020.2	2033.5	1993.7	1993.7
30°	1996.3	1969.8	1977.7	1967.1	1959.2	1959.2	1927.3	1900.8	1914.0	1879.5	1876.9
32.5°	1842.4	1821.1	1829.1	1821.1	1813.2	1821.1	1786.6	1760.1	1773.3	1746.8	1749.4
35°	1675.1	1653.9	1659.2	1651.2	1645.9	1651.2	1616.7	1598.1	1611.4	1584.9	1595.5
37.5°	1489.3	1452.1	1468.0	1462.7	1457.4	1460.1	1428.2	1415.0	1430.9	1415.0	1422.9
40°	1271.6	1245.1	1255.7	1250.4	1245.1	1258.3	1234.4	1215.9	1229.1	1218.5	1234.4
42.5°	1035.3	1014.1	1027.4	1024.7	1016.7	1032.7	1014.1	1000.8	1022.1	1016.7	1030.0
45°	796.4	780.5	791.1	791.1	788.4	801.7	783.1	785.8	807.0	815.0	830.9
47.5°	576.1	552.2	565.5	573.4	573.4	586.7	576.1	586.7	610.6	626.5	639.8
50°	392.9	387.6	390.2	392.9	398.2	408.8	406.2	422.1	438.0	464.6	480.5
52.5°	260.2	254.9	260.2	262.8	268.1	278.7	278.7	297.3	315.9	339.8	358.4
55°	161.9	159.3	161.9	164.6	169.9	180.5	183.2	201.8	220.3	244.2	260.2
57.5°	92.9	95.6	95.6	100.9	103.5	111.5	119.5	130.1	151.3	175.2	191.1
60°	53.1	53.1	55.7	58.4	61.1	69.0	74.3	85.0	100.9	124.8	135.4
62.5°	34.5	34.5	37.2	37.2	39.8	45.1	50.4	61.1	74.3	92.9	103.5
65°	29.2	29.2	29.2	31.9	31.9	37.2	42.5	50.4	61.1	74.3	85.0
67.5°	23.9	23.9	23.9	26.5	26.5	29.2	34.5	39.8	47.8	58.4	66.4
70°	18.6	18.6	18.6	21.2	21.2	23.9	26.5	29.2	37.2	45.1	50.4
72.5°	13.3	13.3	15.9	15.9	15.9	18.6	21.2	23.9	29.2	34.5	37.2
75°	10.6	10.6	10.6	10.6	13.3	13.3	15.9	18.6	21.2	23.9	26.5
77.5°	5.3	5.3	8.0	8.0	8.0	10.6	10.6	13.3	15.9	18.6	18.6
80°	5.3	5.3	5.3	5.3	5.3	8.0	8.0	8.0	10.6	13.3	13.3
82.5°	2.7	2.7	2.7	2.7	2.7	5.3	5.3	5.3	8.0	8.0	8.0
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.3	5.3	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7
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: P212847

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBSWL11

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4
2.5°	2245.9	2253.8	2253.8	2245.9	2224.6	2243.2	2261.8	2243.2	2267.1	2224.6	2224.6
5°	2245.9	2251.2	2248.5	2237.9	2216.7	2232.6	2245.9	2227.3	2245.9	2206.1	2203.4
7.5°	2251.2	2245.9	2240.6	2227.3	2200.7	2211.4	2224.6	2203.4	2222.0	2179.5	2174.2
10°	2240.6	2232.6	2222.0	2203.4	2174.2	2182.2	2190.1	2171.5	2184.8	2142.3	2139.7
12.5°	2240.6	2227.3	2211.4	2190.1	2158.3	2163.6	2171.5	2147.6	2158.3	2118.4	2113.1
15°	2245.9	2222.0	2203.4	2179.5	2145.0	2147.6	2153.0	2126.4	2137.0	2094.6	2091.9
17.5°	2227.3	2200.7	2182.2	2153.0	2115.8	2118.4	2118.4	2091.9	2099.9	2057.4	2054.7
20°	2187.5	2155.6	2134.4	2107.8	2068.0	2068.0	2068.0	2041.5	2046.8	2009.6	2004.3
22.5°	2131.7	2097.2	2076.0	2049.4	2012.3	2009.6	2006.9	1985.7	1985.7	1951.2	1943.2
25°	2057.4	2025.5	2004.3	1980.4	1943.2	1937.9	1937.9	1919.3	1916.7	1884.8	1879.5
27.5°	1972.4	1935.3	1916.7	1895.5	1860.9	1855.6	1853.0	1842.4	1837.0	1802.5	1799.9
30°	1858.3	1826.4	1810.5	1791.9	1760.1	1754.8	1752.1	1741.5	1738.8	1704.3	1704.3
32.5°	1736.2	1696.4	1685.7	1667.1	1643.3	1640.6	1643.3	1630.0	1619.4	1595.5	1590.2
35°	1590.2	1550.3	1542.4	1534.4	1515.8	1510.5	1507.9	1505.2	1491.9	1476.0	1468.0
37.5°	1420.3	1385.8	1385.8	1383.1	1369.8	1369.8	1369.8	1364.5	1351.2	1345.9	1330.0
40°	1237.1	1210.5	1213.2	1215.9	1210.5	1213.2	1215.9	1210.5	1199.9	1194.6	1181.3
42.5°	1040.6	1027.4	1038.0	1046.0	1046.0	1053.9	1059.2	1059.2	1046.0	1043.3	1032.7
45°	844.2	841.5	862.8	878.7	884.0	897.3	905.3	899.9	899.9	899.9	889.3
47.5°	661.0	671.6	690.2	722.1	732.7	748.6	753.9	761.9	759.2	761.9	753.9
50°	501.7	525.6	549.5	581.4	597.3	615.9	623.9	634.5	634.5	637.1	631.8
52.5°	379.6	398.2	438.0	459.3	477.8	496.4	507.0	517.7	520.3	520.3	515.0
55°	281.4	307.9	334.5	363.7	379.6	398.2	406.2	416.8	416.8	422.1	416.8
57.5°	204.4	231.0	260.2	281.4	300.0	313.3	321.2	329.2	334.5	334.5	331.8
60°	151.3	172.6	196.4	217.7	233.6	246.9	252.2	260.2	262.8	262.8	257.5
62.5°	114.2	135.4	156.6	175.2	185.8	196.4	201.8	207.1	207.1	207.1	204.4
65°	92.9	108.8	124.8	140.7	151.3	159.3	161.9	167.2	164.6	167.2	164.6
67.5°	74.3	85.0	98.2	108.8	116.8	122.1	124.8	130.1	127.4	130.1	127.4
70°	55.7	66.4	74.3	82.3	87.6	92.9	95.6	98.2	95.6	98.2	95.6
72.5°	42.5	47.8	55.7	63.7	66.4	69.0	71.7	71.7	71.7	74.3	71.7
75°	29.2	34.5	39.8	42.5	47.8	50.4	50.4	53.1	53.1	53.1	53.1
77.5°	21.2	23.9	26.5	29.2	31.9	34.5	34.5	37.2	37.2	37.2	37.2
80°	13.3	15.9	15.9	18.6	21.2	21.2	23.9	23.9	23.9	23.9	23.9
82.5°	8.0	10.6	10.6	13.3	13.3	13.3	15.9	15.9	15.9	15.9	15.9
85°	5.3	5.3	5.3	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.3	5.3	2.7	2.7
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: P212847

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2280.4	2280.4	2280.4	2280.4
2.5°	2245.9	2232.6	2253.8	2222.0
5°	2222.0	2208.7	2235.3	2195.4
7.5°	2192.8	2179.5	2203.4	2163.6
10°	2155.6	2142.3	2163.6	2121.1
12.5°	2123.8	2110.5	2134.4	2094.6
15°	2099.9	2086.6	2107.8	2070.7
17.5°	2062.7	2046.8	2070.7	2030.8
20°	2009.6	1999.0	2017.6	1977.7
22.5°	1948.5	1937.9	1959.2	1919.3
25°	1884.8	1871.6	1892.8	1853.0
27.5°	1802.5	1791.9	1813.2	1773.3
30°	1704.3	1693.7	1714.9	1677.8
32.5°	1592.8	1582.2	1598.1	1566.3
35°	1465.4	1457.4	1473.4	1438.8
37.5°	1327.3	1319.4	1335.3	1300.8
40°	1178.7	1170.7	1184.0	1168.1
42.5°	1032.7	1024.7	1038.0	1024.7
45°	889.3	884.0	897.3	884.0
47.5°	756.6	751.3	764.6	751.3
50°	629.2	631.8	637.1	631.8
52.5°	515.0	515.0	523.0	515.0
55°	416.8	419.4	422.1	416.8
57.5°	331.8	331.8	334.5	331.8
60°	257.5	260.2	260.2	257.5
62.5°	204.4	204.4	204.4	204.4
65°	161.9	161.9	164.6	161.9
67.5°	127.4	124.8	127.4	124.8
70°	95.6	95.6	95.6	95.6
72.5°	74.3	74.3	71.7	71.7
75°	53.1	55.7	53.1	53.1
77.5°	37.2	37.2	37.2	37.2
80°	23.9	23.9	23.9	23.9
82.5°	15.9	15.9	15.9	15.9
85°	10.6	8.0	8.0	8.0
87.5°	5.3	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°





















(END OF REPORT)