

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: P252724

Luminaire Tested: **LD6B50D010TE EU6B30509727 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252724
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 EU6B30509727 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3564.0 lumens
Efficiency: N/A
Efficacy: 60.6 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

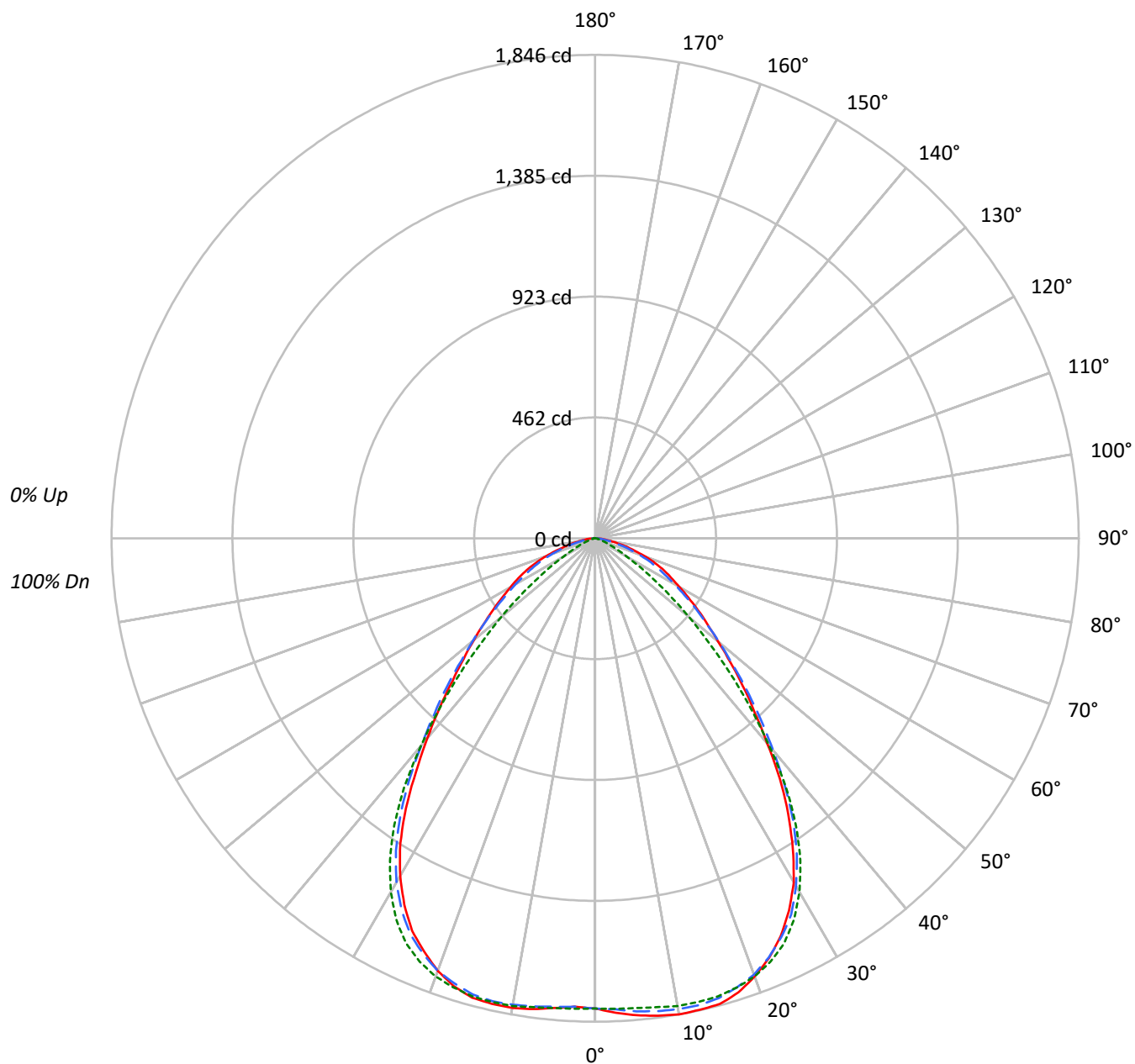
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101		109	105	102	99		101	98	96		97	95	93		94	92	91
2	103	96	91	86		101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	75		93	85	79	74		82	77	73		80	75	71		77	74	70
4	89	78	71	65		87	77	70	65		75	69	64		73	67	63		71	66	62
5	82	71	64	58		80	70	63	58		68	62	57		66	61	56		65	60	56
6	77	65	57	52		75	64	57	51		63	56	51		61	55	51		59	54	50
7	72	60	52	47		70	59	52	46		58	51	46		56	50	46		55	50	45
8	67	55	47	42		66	54	47	42		53	47	42		52	46	42		51	45	41
9	63	51	43	38		62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35		58	47	40	35		46	39	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	117146	117146	117146
5°	119755	117928	117928
10°	122319	120132	120636
15°	124365	122312	122650
20°	123609	123609	122019
25°	120669	122857	119020
30°	114220	117475	112119
35°	102351	106397	100328
40°	86954	88036	84791
45°	73581	67251	71007
50°	62126	47429	61355
55°	54597	30620	54017
60°	48382	18228	48709
65°	44691	10976	44691
70°	38761	6295	37788
75°	30727	3831	28812
80°	22918	2855	21941
85°	20885	1871	19013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	4.9
10°-20°	511.6	14.4
20°-30°	769.5	21.6
30°-40°	809.0	22.7
40°-50°	604.4	17.0
50°-60°	376.3	10.6
60°-70°	214.0	6.0
70°-80°	88.1	2.5
80°-90°	18.2	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°	1454.0	40.8
0°-40°	2263.0	63.5
0°-60°	3243.7	91.0
0°-90°	3564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3564.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1796	1796	1796	1796	1796	
5°	1829	1813	1801	1796	1801	175
15°	1841	1818	1811	1803	1816	518
25°	1676	1681	1707	1669	1653	767
35°	1285	1318	1336	1298	1260	797
45°	798	815	729	800	770	618
55°	480	470	269	462	475	432
65°	290	259	71	259	290	285
75°	122	96	15	94	114	132
85°	28	18	2	15	25	31
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°	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6
2.5°	1813.4	1810.9	1813.4	1808.3	1805.8	1805.8	1808.3	1803.2	1800.7	1803.2	1800.7
5°	1828.6	1823.6	1826.1	1823.6	1818.5	1818.5	1821.0	1813.4	1813.4	1815.9	1813.4
7.5°	1838.8	1838.8	1838.8	1833.7	1831.2	1828.6	1833.7	1826.1	1823.6	1823.6	1821.0
10°	1846.4	1843.9	1846.4	1841.3	1836.3	1833.7	1838.8	1833.7	1828.6	1833.7	1826.1
12.5°	1843.9	1843.9	1843.9	1841.3	1836.3	1833.7	1838.8	1831.2	1828.6	1831.2	1826.1
15°	1841.3	1833.7	1836.3	1833.7	1826.1	1826.1	1828.6	1821.0	1815.9	1823.6	1818.5
17.5°	1818.5	1813.4	1815.9	1810.9	1805.8	1803.2	1805.8	1803.2	1798.2	1803.2	1798.2
20°	1780.4	1780.4	1782.9	1777.8	1772.8	1770.2	1775.3	1770.2	1765.1	1772.8	1772.8
22.5°	1734.7	1734.7	1734.7	1732.1	1729.6	1729.6	1729.6	1727.0	1724.5	1729.6	1732.1
25°	1676.3	1673.7	1676.3	1678.8	1676.3	1673.7	1676.3	1676.3	1671.2	1681.3	1681.3
27.5°	1602.6	1602.6	1607.7	1605.1	1605.1	1602.6	1607.7	1607.7	1605.1	1612.8	1620.4
30°	1516.2	1511.2	1516.2	1516.2	1518.8	1518.8	1521.3	1521.3	1521.3	1528.9	1534.0
32.5°	1404.5	1407.0	1414.7	1412.1	1409.6	1417.2	1417.2	1422.3	1424.8	1429.9	1432.4
35°	1285.1	1287.7	1287.7	1290.2	1295.3	1290.2	1302.9	1300.4	1302.9	1313.1	1318.1
37.5°	1158.1	1150.5	1163.2	1158.1	1160.7	1160.7	1165.8	1168.3	1175.9	1188.6	1188.6
40°	1021.0	1023.5	1028.6	1031.1	1033.7	1033.7	1033.7	1041.3	1043.8	1059.1	1056.5
42.5°	901.6	901.6	906.7	909.2	909.2	909.2	909.2	916.9	921.9	927.0	932.1
45°	797.5	789.9	794.9	794.9	800.0	797.5	802.6	807.6	810.2	817.8	815.3
47.5°	698.4	695.9	698.4	701.0	698.4	701.0	703.5	706.1	708.6	708.6	708.6
50°	612.1	612.1	614.6	617.2	617.2	617.2	617.2	619.7	619.7	624.8	619.7
52.5°	541.0	543.5	543.5	541.0	543.5	543.5	546.1	546.1	543.5	543.5	535.9
55°	480.0	477.5	480.0	477.5	480.0	480.0	477.5	477.5	474.9	472.4	469.9
57.5°	421.6	421.6	421.6	421.6	419.1	421.6	419.1	416.5	416.5	411.4	403.8
60°	370.8	370.8	370.8	370.8	370.8	368.3	370.8	368.3	363.2	358.1	347.9
62.5°	327.6	325.1	327.6	325.1	325.1	322.6	322.6	320.0	314.9	309.9	299.7
65°	289.5	292.1	289.5	289.5	287.0	284.5	284.5	281.9	274.3	269.2	259.1
67.5°	248.9	246.4	246.4	246.4	243.8	243.8	243.8	238.7	233.7	226.0	215.9
70°	203.2	203.2	203.2	200.6	200.6	198.1	198.1	195.6	190.5	185.4	172.7
72.5°	160.0	160.0	160.0	154.9	157.5	154.9	154.9	149.8	147.3	139.7	132.1
75°	121.9	121.9	119.4	119.4	116.8	114.3	114.3	111.8	109.2	104.1	96.5
77.5°	88.9	88.9	88.9	86.4	83.8	81.3	81.3	78.7	76.2	73.7	68.6
80°	61.0	61.0	61.0	61.0	58.4	55.9	55.9	53.3	53.3	50.8	45.7
82.5°	40.6	40.6	40.6	40.6	38.1	38.1	38.1	35.6	33.0	33.0	27.9
85°	27.9	27.9	25.4	25.4	25.4	25.4	22.9	22.9	20.3	17.8	17.8
87.5°	15.2	15.2	15.2	15.2	12.7	12.7	12.7	12.7	10.2	10.2	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°	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6
2.5°	1808.3	1808.3	1805.8	1798.2	1800.7	1798.2	1800.7	1798.2	1790.5	1798.2	1790.5
5°	1818.5	1821.0	1815.9	1805.8	1808.3	1805.8	1805.8	1803.2	1795.6	1800.7	1795.6
7.5°	1828.6	1826.1	1823.6	1813.4	1815.9	1813.4	1813.4	1808.3	1800.7	1805.8	1798.2
10°	1833.7	1833.7	1828.6	1818.5	1818.5	1815.9	1818.5	1815.9	1805.8	1813.4	1808.3
12.5°	1833.7	1831.2	1831.2	1818.5	1821.0	1818.5	1821.0	1815.9	1808.3	1813.4	1810.9
15°	1826.1	1826.1	1823.6	1810.9	1813.4	1813.4	1815.9	1810.9	1803.2	1810.9	1805.8
17.5°	1810.9	1810.9	1808.3	1798.2	1803.2	1803.2	1805.8	1800.7	1793.1	1798.2	1798.2
20°	1780.4	1782.9	1782.9	1775.3	1780.4	1780.4	1782.9	1780.4	1777.8	1780.4	1775.3
22.5°	1744.8	1749.9	1749.9	1742.3	1747.4	1747.4	1755.0	1752.4	1747.4	1749.9	1747.4
25°	1691.5	1696.6	1701.6	1696.6	1701.6	1701.6	1709.3	1706.7	1701.6	1706.7	1699.1
27.5°	1630.5	1633.1	1638.2	1633.1	1640.7	1638.2	1645.8	1643.2	1635.6	1643.2	1640.7
30°	1544.2	1554.3	1562.0	1554.3	1562.0	1562.0	1567.0	1564.5	1562.0	1559.4	1559.4
32.5°	1447.7	1457.8	1457.8	1455.3	1460.4	1460.4	1462.9	1457.8	1455.3	1457.8	1460.4
35°	1328.3	1333.4	1338.5	1335.9	1338.5	1341.0	1338.5	1341.0	1333.4	1335.9	1335.9
37.5°	1198.8	1203.9	1203.9	1196.2	1201.3	1201.3	1196.2	1196.2	1191.2	1196.2	1186.1
40°	1061.6	1056.5	1059.1	1054.0	1048.9	1048.9	1046.4	1036.2	1031.1	1033.7	1036.2
42.5°	927.0	927.0	919.4	906.7	894.0	894.0	886.4	881.3	871.1	876.2	873.7
45°	812.7	800.0	789.9	769.6	761.9	756.9	744.2	731.5	726.4	728.9	726.4
47.5°	703.5	693.4	668.0	640.0	632.4	624.8	609.5	594.3	589.2	584.1	584.1
50°	612.1	594.3	566.4	535.9	523.2	510.5	490.2	474.9	464.8	467.3	467.3
52.5°	528.3	508.0	474.9	436.8	421.6	406.4	388.6	370.8	363.2	360.6	360.6
55°	454.6	431.8	398.7	355.6	342.9	325.1	302.2	281.9	271.8	269.2	274.3
57.5°	388.6	368.3	330.2	287.0	271.8	254.0	231.1	213.3	200.6	198.1	200.6
60°	335.3	307.3	274.3	233.7	213.3	198.1	172.7	157.5	144.8	139.7	142.2
62.5°	281.9	256.5	223.5	182.9	167.6	152.4	129.5	111.8	101.6	99.1	101.6
65°	241.3	215.9	185.4	149.8	134.6	119.4	99.1	81.3	73.7	71.1	73.7
67.5°	200.6	177.8	152.4	119.4	106.7	94.0	73.7	61.0	50.8	48.3	50.8
70°	162.5	142.2	116.8	94.0	81.3	71.1	55.9	43.2	35.6	33.0	35.6
72.5°	121.9	106.7	88.9	68.6	61.0	53.3	40.6	30.5	25.4	22.9	25.4
75°	88.9	76.2	63.5	48.3	43.2	38.1	27.9	20.3	17.8	15.2	17.8
77.5°	61.0	53.3	43.2	33.0	27.9	25.4	17.8	15.2	12.7	10.2	10.2
80°	40.6	35.6	27.9	22.9	20.3	17.8	12.7	10.2	7.6	7.6	7.6
82.5°	25.4	20.3	17.8	12.7	10.2	10.2	7.6	5.1	5.1	5.1	5.1
85°	15.2	12.7	10.2	7.6	5.1	5.1	2.5	2.5	2.5	2.5	2.5
87.5°	7.6	5.1	5.1	2.5	2.5	2.5	2.5	2.5	0.0	0.0	2.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6
2.5°	1795.6	1790.5	1790.5	1793.1	1795.6	1798.2	1793.1	1790.5	1790.5	1798.2	1793.1
5°	1795.6	1793.1	1793.1	1793.1	1798.2	1800.7	1795.6	1793.1	1795.6	1803.2	1800.7
7.5°	1803.2	1798.2	1800.7	1800.7	1803.2	1808.3	1803.2	1800.7	1803.2	1810.9	1805.8
10°	1808.3	1803.2	1805.8	1803.2	1810.9	1813.4	1808.3	1805.8	1808.3	1818.5	1815.9
12.5°	1810.9	1808.3	1808.3	1805.8	1813.4	1815.9	1810.9	1808.3	1810.9	1818.5	1815.9
15°	1805.8	1803.2	1803.2	1803.2	1808.3	1813.4	1805.8	1803.2	1803.2	1810.9	1808.3
17.5°	1795.6	1790.5	1790.5	1790.5	1793.1	1795.6	1788.0	1785.5	1782.9	1790.5	1788.0
20°	1777.8	1772.8	1767.7	1767.7	1770.2	1770.2	1765.1	1757.5	1757.5	1760.1	1755.0
22.5°	1744.8	1742.3	1737.2	1734.7	1739.7	1737.2	1727.0	1719.4	1716.9	1719.4	1714.3
25°	1699.1	1694.0	1691.5	1688.9	1691.5	1688.9	1678.8	1668.6	1668.6	1668.6	1661.0
27.5°	1635.6	1630.5	1628.0	1628.0	1630.5	1625.5	1615.3	1605.1	1600.1	1600.1	1592.4
30°	1554.3	1554.3	1551.8	1549.3	1546.7	1546.7	1531.5	1521.3	1516.2	1518.8	1513.7
32.5°	1455.3	1452.8	1450.2	1442.6	1445.1	1442.6	1429.9	1422.3	1414.7	1409.6	1407.0
35°	1328.3	1328.3	1325.8	1325.8	1325.8	1323.2	1310.5	1302.9	1297.8	1295.3	1287.7
37.5°	1188.6	1186.1	1183.5	1183.5	1183.5	1183.5	1175.9	1168.3	1168.3	1165.8	1160.7
40°	1031.1	1033.7	1036.2	1033.7	1041.3	1048.9	1038.8	1033.7	1031.1	1038.8	1028.6
42.5°	878.8	876.2	888.9	891.5	891.5	904.2	906.7	909.2	906.7	911.8	911.8
45°	731.5	728.9	741.6	746.7	759.4	774.6	782.3	794.9	800.0	805.1	800.0
47.5°	591.8	601.9	612.1	624.8	634.9	660.3	675.6	688.3	693.4	701.0	701.0
50°	474.9	485.1	502.9	513.0	525.7	556.2	581.6	599.4	609.5	617.2	614.6
52.5°	365.7	383.5	406.4	416.5	434.3	469.9	497.8	518.1	530.8	538.4	541.0
55°	281.9	297.2	320.0	335.3	353.0	391.1	426.7	449.5	462.2	472.4	477.5
57.5°	208.3	226.0	251.4	264.1	284.5	327.6	358.1	386.0	401.3	414.0	416.5
60°	152.4	170.2	193.0	208.3	228.6	271.8	307.3	332.7	350.5	360.6	365.7
62.5°	109.2	127.0	149.8	165.1	182.9	221.0	256.5	281.9	299.7	312.4	320.0
65°	78.7	96.5	119.4	132.1	147.3	182.9	215.9	241.3	259.1	274.3	279.4
67.5°	58.4	71.1	91.4	104.1	119.4	147.3	175.2	198.1	215.9	228.6	233.7
70°	43.2	53.3	71.1	78.7	88.9	114.3	137.1	157.5	172.7	182.9	187.9
72.5°	30.5	38.1	50.8	58.4	66.0	86.4	104.1	119.4	129.5	139.7	144.8
75°	20.3	25.4	35.6	40.6	45.7	61.0	73.7	86.4	94.0	101.6	104.1
77.5°	12.7	17.8	25.4	27.9	33.0	40.6	50.8	58.4	63.5	68.6	73.7
80°	7.6	10.2	15.2	17.8	20.3	27.9	33.0	38.1	43.2	48.3	50.8
82.5°	5.1	7.6	10.2	10.2	12.7	15.2	20.3	25.4	27.9	30.5	33.0
85°	2.5	2.5	5.1	5.1	7.6	7.6	10.2	12.7	15.2	17.8	20.3
87.5°	2.5	2.5	2.5	2.5	5.1	5.1	7.6	7.6	7.6	10.2	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: P252724

CATALOG NUMBER: LD6B50D010TE EU6B30509727 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6	1795.6
2.5°	1788.0	1795.6	1788.0	1793.1	1790.5	1790.5	1788.0	1790.5
5°	1795.6	1805.8	1795.6	1803.2	1798.2	1798.2	1798.2	1800.7
7.5°	1803.2	1813.4	1805.8	1813.4	1810.9	1808.3	1808.3	1813.4
10°	1810.9	1818.5	1813.4	1821.0	1818.5	1815.9	1815.9	1821.0
12.5°	1810.9	1821.0	1815.9	1823.6	1821.0	1818.5	1818.5	1821.0
15°	1803.2	1815.9	1808.3	1815.9	1813.4	1810.9	1810.9	1815.9
17.5°	1780.4	1790.5	1785.5	1790.5	1790.5	1788.0	1790.5	1793.1
20°	1749.9	1757.5	1752.4	1757.5	1757.5	1752.4	1755.0	1757.5
22.5°	1706.7	1714.3	1709.3	1714.3	1711.8	1709.3	1709.3	1706.7
25°	1653.4	1663.6	1655.9	1661.0	1655.9	1650.9	1650.9	1653.4
27.5°	1587.4	1595.0	1584.8	1589.9	1584.8	1579.7	1579.7	1577.2
30°	1501.0	1503.5	1495.9	1501.0	1495.9	1493.4	1488.3	1488.3
32.5°	1396.9	1399.4	1391.8	1391.8	1386.7	1386.7	1376.6	1384.2
35°	1275.0	1277.5	1275.0	1272.4	1264.8	1262.3	1259.7	1259.7
37.5°	1148.0	1148.0	1140.4	1137.8	1132.7	1127.7	1130.2	1122.6
40°	1018.4	1015.9	1008.3	1010.8	1008.3	1000.7	998.1	995.6
42.5°	896.5	896.5	888.9	891.5	886.4	883.8	876.2	878.8
45°	789.9	789.9	782.3	782.3	779.7	772.1	774.6	769.6
47.5°	693.4	693.4	690.8	690.8	683.2	680.7	680.7	680.7
50°	609.5	609.5	609.5	609.5	607.0	604.5	601.9	604.5
52.5°	538.4	543.5	541.0	541.0	538.4	535.9	533.4	533.4
55°	474.9	477.5	477.5	480.0	477.5	474.9	477.5	474.9
57.5°	419.1	424.1	424.1	424.1	424.1	424.1	421.6	419.1
60°	370.8	373.3	373.3	375.9	375.9	375.9	373.3	373.3
62.5°	322.6	327.6	330.2	330.2	332.7	330.2	330.2	330.2
65°	284.5	289.5	292.1	289.5	292.1	292.1	289.5	289.5
67.5°	238.7	243.8	243.8	243.8	243.8	246.4	243.8	243.8
70°	193.0	198.1	195.6	198.1	198.1	198.1	198.1	198.1
72.5°	147.3	149.8	152.4	152.4	154.9	152.4	152.4	152.4
75°	106.7	111.8	111.8	111.8	111.8	114.3	114.3	114.3
77.5°	76.2	78.7	78.7	81.3	81.3	81.3	81.3	83.8
80°	53.3	53.3	55.9	55.9	58.4	58.4	58.4	58.4
82.5°	35.6	38.1	38.1	38.1	38.1	38.1	38.1	38.1
85°	20.3	22.9	22.9	22.9	22.9	25.4	25.4	25.4
87.5°	12.7	12.7	12.7	12.7	12.7	12.7	10.2	10.2
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)