

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: P252516

Luminaire Tested: **LD6B50D010TE EU6B30509727 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B50D010TE EU6B30509727 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 3242.0 lumens
Efficiency: N/A
Efficacy: 55.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

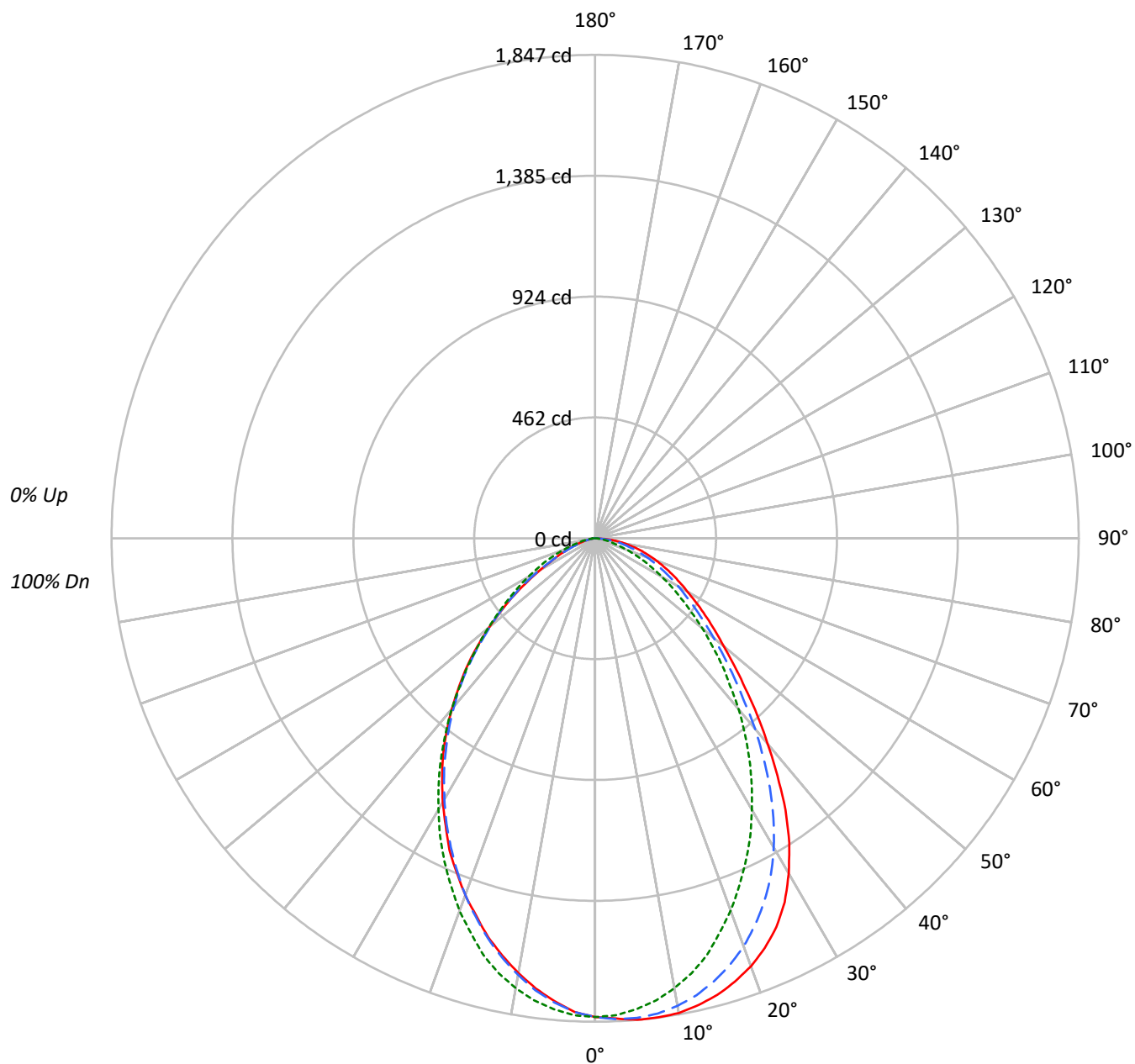
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	101	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	93	84	78	73	81	76	71		79	74	70		76
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	63	50	43	38	61	50	43	38	49	42	37		48	42	37		47
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	119325	119325	119325
5°	120940	118281	116284
10°	122007	115608	111739
15°	121988	111350	106548
20°	120811	105113	100705
25°	117948	98015	94718
30°	111373	90129	87643
35°	100957	81739	80727
40°	87184	72689	72476
45°	74762	63284	63745
50°	64968	54138	53367
55°	58362	45657	42768
60°	53028	38453	31485
65°	49801	31770	23140
70°	47478	24721	16958
75°	45474	17922	11520
80°	42943	12398	7627
85°	38026	7635	3818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	5.3
10°-20°	468.6	14.5
20°-30°	650.5	20.1
30°-40°	673.8	20.8
40°-50°	553.7	17.1
50°-60°	380.5	11.7
60°-70°	218.8	6.7
70°-80°	100.6	3.1
80°-90°	24.5	0.8
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°	1290.2	39.8
0°-40°	1963.9	60.6
0°-60°	2898.2	89.4
0°-90°	3242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3242.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1829	1829	1829	1829	1829	
5°	1847	1839	1806	1781	1776	176
15°	1806	1753	1649	1583	1578	509
25°	1638	1529	1362	1303	1316	750
35°	1268	1163	1026	996	1014	786
45°	810	749	686	678	691	631
55°	513	465	401	378	376	462
65°	323	282	206	145	150	321
75°	180	142	71	46	46	191
85°	51	36	10	5	5	57
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°	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0
2.5°	1836.6	1851.8	1841.7	1839.1	1844.2	1844.2	1844.2	1836.6	1841.7	1834.0	1839.1
5°	1846.7	1859.5	1849.3	1844.2	1849.3	1851.8	1844.2	1839.1	1846.7	1836.6	1839.1
7.5°	1846.7	1859.5	1849.3	1846.7	1849.3	1849.3	1846.7	1836.6	1841.7	1831.5	1831.5
10°	1841.7	1851.8	1841.7	1836.6	1839.1	1836.6	1836.6	1823.9	1826.4	1813.7	1813.7
12.5°	1826.4	1839.1	1826.4	1821.3	1821.3	1821.3	1813.7	1803.6	1806.1	1790.9	1788.3
15°	1806.1	1816.3	1803.6	1798.5	1798.5	1795.9	1790.9	1775.6	1775.6	1760.4	1752.8
17.5°	1775.6	1785.8	1775.6	1768.0	1765.5	1760.4	1755.3	1740.1	1735.0	1717.2	1709.6
20°	1740.1	1747.7	1737.5	1729.9	1724.8	1719.7	1709.6	1694.3	1689.3	1671.5	1658.8
22.5°	1694.3	1704.5	1689.3	1681.6	1676.6	1668.9	1658.8	1643.5	1635.9	1613.0	1597.8
25°	1638.5	1643.5	1630.8	1623.2	1613.0	1608.0	1600.3	1580.0	1572.4	1547.0	1529.2
27.5°	1567.3	1572.4	1557.2	1552.1	1539.4	1534.3	1524.1	1506.4	1496.2	1470.8	1453.0
30°	1478.4	1483.5	1473.3	1465.7	1455.6	1445.4	1437.8	1420.0	1404.7	1379.3	1364.1
32.5°	1379.3	1387.0	1376.8	1366.6	1348.9	1351.4	1338.7	1320.9	1308.2	1285.4	1267.6
35°	1267.6	1272.7	1260.0	1257.4	1247.3	1237.1	1224.4	1211.7	1204.1	1178.7	1163.4
37.5°	1143.1	1155.8	1143.1	1132.9	1127.9	1120.2	1112.6	1094.8	1089.8	1074.5	1054.2
40°	1023.7	1031.3	1023.7	1013.6	1005.9	1005.9	995.8	985.6	972.9	957.7	950.0
42.5°	917.0	911.9	909.4	904.3	894.2	891.6	889.1	876.4	868.8	853.5	840.8
45°	810.3	812.9	807.8	805.3	797.6	792.6	787.5	777.3	774.8	759.5	749.4
47.5°	721.4	718.9	713.8	713.8	708.7	703.6	698.6	690.9	688.4	675.7	665.5
50°	640.1	642.7	640.1	637.6	630.0	627.4	622.4	617.3	612.2	599.5	589.3
52.5°	574.1	571.6	569.0	569.0	561.4	558.9	553.8	548.7	543.6	530.9	523.3
55°	513.1	513.1	510.6	508.0	500.4	497.9	495.3	490.3	482.6	472.5	464.9
57.5°	457.2	457.2	454.7	452.2	447.1	447.1	442.0	436.9	431.8	421.7	411.5
60°	406.4	409.0	406.4	403.9	398.8	398.8	396.3	388.7	386.1	373.4	365.8
62.5°	363.3	363.3	363.3	360.7	358.2	353.1	353.1	345.5	340.4	332.8	322.6
65°	322.6	322.6	322.6	320.1	315.0	312.4	309.9	304.8	299.7	292.1	282.0
67.5°	284.5	284.5	284.5	282.0	276.9	274.3	271.8	269.3	261.6	254.0	243.9
70°	248.9	248.9	246.4	243.9	241.3	238.8	236.2	231.2	226.1	215.9	208.3
72.5°	213.4	213.4	213.4	208.3	205.8	205.8	200.7	198.1	193.1	182.9	175.3
75°	180.4	177.8	177.8	175.3	172.7	170.2	167.7	165.1	157.5	152.4	142.3
77.5°	147.3	147.3	144.8	142.3	142.3	139.7	137.2	132.1	129.6	121.9	114.3
80°	114.3	114.3	114.3	114.3	111.8	109.2	109.2	104.1	101.6	94.0	88.9
82.5°	86.4	83.8	83.8	83.8	81.3	78.7	78.7	76.2	73.7	68.6	63.5
85°	50.8	48.3	48.3	48.3	45.7	45.7	43.2	43.2	40.6	35.6	35.6
87.5°	15.2	15.2	17.8	17.8	15.2	15.2	15.2	15.2	15.2	12.7	12.7
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°	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0
2.5°	1834.0	1841.7	1831.5	1829.0	1839.1	1834.0	1831.5	1826.4	1829.0	1823.9	1816.3
5°	1831.5	1841.7	1829.0	1821.3	1834.0	1826.4	1821.3	1816.3	1816.3	1806.1	1801.0
7.5°	1823.9	1829.0	1816.3	1808.6	1816.3	1808.6	1803.6	1795.9	1793.4	1780.7	1773.1
10°	1803.6	1808.6	1793.4	1783.2	1790.9	1780.7	1773.1	1765.5	1760.4	1745.1	1735.0
12.5°	1775.6	1778.2	1760.4	1747.7	1752.8	1745.1	1732.4	1722.3	1717.2	1702.0	1689.3
15°	1737.5	1740.1	1719.7	1702.0	1707.0	1696.9	1681.6	1671.5	1663.9	1648.6	1630.8
17.5°	1691.8	1689.3	1666.4	1648.6	1651.2	1638.5	1623.2	1608.0	1597.8	1580.0	1567.3
20°	1641.0	1633.4	1608.0	1587.6	1590.2	1574.9	1557.2	1541.9	1529.2	1514.0	1496.2
22.5°	1577.5	1567.3	1544.5	1519.1	1521.6	1508.9	1483.5	1470.8	1458.1	1437.8	1422.5
25°	1508.9	1493.7	1470.8	1445.4	1445.4	1430.2	1409.8	1394.6	1381.9	1361.6	1343.8
27.5°	1427.6	1420.0	1389.5	1369.2	1366.6	1351.4	1333.6	1315.8	1300.6	1282.8	1265.0
30°	1338.7	1326.0	1303.1	1280.3	1275.2	1262.5	1244.7	1224.4	1214.2	1196.4	1181.2
32.5°	1244.7	1232.0	1206.6	1183.7	1181.2	1171.0	1155.8	1135.5	1125.3	1112.6	1102.5
35°	1138.0	1132.9	1107.5	1089.8	1089.8	1079.6	1064.4	1046.6	1039.0	1026.3	1013.6
37.5°	1036.4	1028.8	1005.9	990.7	990.7	978.0	962.7	955.1	947.5	937.3	929.7
40°	929.7	924.6	906.9	891.6	894.2	884.0	873.8	863.7	858.6	853.5	845.9
42.5°	830.7	825.6	812.9	800.2	800.2	792.6	782.4	774.8	769.7	762.1	759.5
45°	741.7	734.1	724.0	711.3	711.3	703.6	698.6	693.5	690.9	685.9	678.2
47.5°	655.4	650.3	640.1	627.4	627.4	627.4	617.3	609.7	609.7	604.6	602.0
50°	581.7	574.1	566.5	556.3	556.3	551.2	543.6	536.0	536.0	533.4	528.4
52.5°	513.1	508.0	497.9	487.7	487.7	482.6	475.0	472.5	469.9	462.3	459.8
55°	454.7	449.6	442.0	429.3	426.8	424.2	416.6	411.5	409.0	401.4	401.4
57.5°	401.4	396.3	383.6	376.0	373.4	368.3	360.7	355.6	353.1	348.0	342.9
60°	355.6	348.0	337.9	327.7	325.1	320.1	312.4	307.4	304.8	294.7	289.6
62.5°	312.4	304.8	294.7	284.5	282.0	276.9	266.7	261.6	256.6	246.4	241.3
65°	271.8	264.2	254.0	243.9	238.8	236.2	226.1	218.5	213.4	205.8	195.6
67.5°	233.7	226.1	215.9	203.2	203.2	195.6	188.0	180.4	172.7	165.1	157.5
70°	198.1	190.5	180.4	170.2	167.7	162.6	155.0	144.8	139.7	129.6	121.9
72.5°	165.1	157.5	147.3	137.2	134.6	129.6	121.9	111.8	104.1	96.5	88.9
75°	134.6	127.0	116.9	109.2	106.7	101.6	94.0	83.8	76.2	71.1	63.5
77.5°	106.7	99.1	91.4	83.8	81.3	76.2	68.6	63.5	55.9	50.8	43.2
80°	81.3	76.2	68.6	63.5	61.0	55.9	50.8	43.2	38.1	33.0	30.5
82.5°	58.4	53.3	48.3	40.6	40.6	35.6	33.0	27.9	22.9	20.3	17.8
85°	33.0	27.9	25.4	22.9	20.3	20.3	17.8	15.2	12.7	10.2	10.2
87.5°	10.2	10.2	7.6	7.6	7.6	7.6	5.1	5.1	5.1	5.1	5.1
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°	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0
2.5°	1816.3	1818.8	1813.7	1818.8	1813.7	1816.3	1811.2	1816.3	1811.2	1816.3	1806.1
5°	1798.5	1798.5	1790.9	1795.9	1790.9	1793.4	1783.2	1785.8	1780.7	1785.8	1775.6
7.5°	1768.0	1770.5	1757.8	1762.9	1755.3	1755.3	1747.7	1750.2	1742.6	1745.1	1737.5
10°	1732.4	1729.9	1717.2	1722.3	1712.1	1712.1	1704.5	1704.5	1694.3	1696.9	1686.7
12.5°	1681.6	1679.1	1663.9	1668.9	1658.8	1658.8	1651.2	1651.2	1641.0	1646.1	1635.9
15°	1623.2	1620.7	1605.4	1608.0	1597.8	1597.8	1587.6	1590.2	1582.6	1587.6	1577.5
17.5°	1557.2	1554.6	1539.4	1541.9	1529.2	1531.8	1524.1	1521.6	1516.5	1519.1	1511.4
20°	1488.6	1483.5	1468.3	1470.8	1465.7	1458.1	1453.0	1455.6	1450.5	1455.6	1447.9
22.5°	1417.5	1407.3	1394.6	1394.6	1389.5	1389.5	1381.9	1387.0	1376.8	1384.4	1379.3
25°	1336.2	1328.5	1318.4	1323.5	1313.3	1313.3	1305.7	1308.2	1303.1	1308.2	1303.1
27.5°	1257.4	1252.3	1237.1	1242.2	1234.6	1237.1	1229.5	1232.0	1229.5	1234.6	1229.5
30°	1173.6	1171.0	1160.9	1160.9	1158.3	1155.8	1153.3	1153.3	1150.7	1158.3	1153.3
32.5°	1094.8	1087.2	1077.1	1084.7	1072.0	1079.6	1074.5	1079.6	1074.5	1079.6	1077.1
35°	1013.6	1011.0	998.3	1000.9	998.3	998.3	995.8	995.8	995.8	1003.4	1003.4
37.5°	927.2	924.6	917.0	919.6	914.5	911.9	911.9	917.0	917.0	922.1	922.1
40°	843.4	845.9	838.3	838.3	835.7	835.7	835.7	840.8	838.3	843.4	840.8
42.5°	759.5	759.5	751.9	754.4	751.9	754.4	754.4	759.5	759.5	762.1	759.5
45°	680.8	680.8	678.2	680.8	675.7	678.2	675.7	680.8	678.2	680.8	680.8
47.5°	602.0	602.0	602.0	599.5	599.5	599.5	599.5	599.5	597.0	602.0	599.5
50°	528.4	530.9	528.4	528.4	525.8	528.4	525.8	525.8	520.7	523.3	523.3
52.5°	462.3	462.3	457.2	457.2	457.2	454.7	454.7	454.7	452.2	452.2	447.1
55°	398.8	398.8	393.7	393.7	391.2	388.7	386.1	386.1	378.5	378.5	370.9
57.5°	340.4	337.9	330.2	330.2	325.1	322.6	320.1	317.5	312.4	307.4	304.8
60°	287.0	282.0	276.9	274.3	269.3	264.2	259.1	254.0	248.9	246.4	243.9
62.5°	236.2	228.6	223.5	221.0	215.9	208.3	203.2	198.1	193.1	190.5	185.4
65°	190.5	182.9	175.3	172.7	167.7	162.6	155.0	149.9	144.8	142.3	142.3
67.5°	149.9	142.3	132.1	132.1	127.0	121.9	116.9	111.8	109.2	111.8	111.8
70°	111.8	106.7	99.1	96.5	91.4	86.4	83.8	83.8	83.8	86.4	83.8
72.5°	83.8	76.2	71.1	68.6	66.0	63.5	63.5	63.5	61.0	63.5	63.5
75°	58.4	53.3	48.3	48.3	45.7	45.7	45.7	45.7	45.7	45.7	45.7
77.5°	40.6	35.6	33.0	33.0	33.0	30.5	30.5	30.5	30.5	30.5	30.5
80°	25.4	25.4	22.9	22.9	20.3	20.3	20.3	20.3	20.3	20.3	20.3
82.5°	15.2	15.2	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
85°	7.6	7.6	7.6	7.6	7.6	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1	5.1	5.1	5.1
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: P252516

CATALOG NUMBER: LD6B50D010TE EU6B30509727 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0	1829.0
2.5°	1806.1	1813.7	1803.6	1811.2	1808.6	1806.1	1801.0	1811.2
5°	1775.6	1778.2	1768.0	1778.2	1775.6	1770.5	1765.5	1775.6
7.5°	1732.4	1740.1	1727.4	1737.5	1735.0	1729.9	1724.8	1735.0
10°	1684.2	1691.8	1681.6	1689.3	1689.3	1684.2	1676.6	1686.7
12.5°	1630.8	1635.9	1625.7	1635.9	1633.4	1628.3	1625.7	1633.4
15°	1572.4	1580.0	1569.9	1577.5	1574.9	1572.4	1569.9	1577.5
17.5°	1508.9	1516.5	1508.9	1516.5	1516.5	1508.9	1506.4	1511.4
20°	1445.4	1450.5	1442.9	1450.5	1447.9	1447.9	1442.9	1450.5
22.5°	1374.3	1381.9	1376.8	1381.9	1379.3	1379.3	1376.8	1381.9
25°	1303.1	1310.8	1303.1	1310.8	1308.2	1308.2	1303.1	1315.8
27.5°	1232.0	1237.1	1229.5	1239.6	1237.1	1232.0	1234.6	1237.1
30°	1155.8	1160.9	1155.8	1163.4	1163.4	1163.4	1158.3	1163.4
32.5°	1079.6	1087.2	1079.6	1087.2	1084.7	1084.7	1082.1	1087.2
35°	1003.4	1005.9	1000.9	1008.5	1008.5	1011.0	1005.9	1013.6
37.5°	924.6	927.2	924.6	927.2	932.3	924.6	929.7	932.3
40°	843.4	848.4	845.9	848.4	848.4	851.0	848.4	851.0
42.5°	762.1	767.2	762.1	769.7	767.2	767.2	769.7	769.7
45°	678.2	685.9	680.8	685.9	688.4	685.9	685.9	690.9
47.5°	599.5	604.6	602.0	604.6	604.6	604.6	604.6	609.7
50°	520.7	523.3	523.3	525.8	525.8	528.4	523.3	525.8
52.5°	442.0	447.1	447.1	447.1	444.5	447.1	447.1	447.1
55°	370.9	373.4	368.3	373.4	373.4	370.9	370.9	376.0
57.5°	302.3	302.3	302.3	302.3	302.3	299.7	302.3	302.3
60°	238.8	241.3	238.8	238.8	238.8	238.8	236.2	241.3
62.5°	185.4	185.4	182.9	185.4	185.4	185.4	188.0	188.0
65°	144.8	147.3	144.8	147.3	147.3	147.3	147.3	149.9
67.5°	114.3	114.3	114.3	114.3	114.3	114.3	114.3	114.3
70°	86.4	86.4	86.4	88.9	86.4	86.4	86.4	88.9
72.5°	63.5	63.5	63.5	63.5	63.5	63.5	66.0	66.0
75°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
77.5°	30.5	30.5	30.5	33.0	30.5	33.0	30.5	30.5
80°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
82.5°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
85°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5
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)