

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: P252585

Luminaire Tested: **LD6B30D010 EU6B30508035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30508035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3018.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

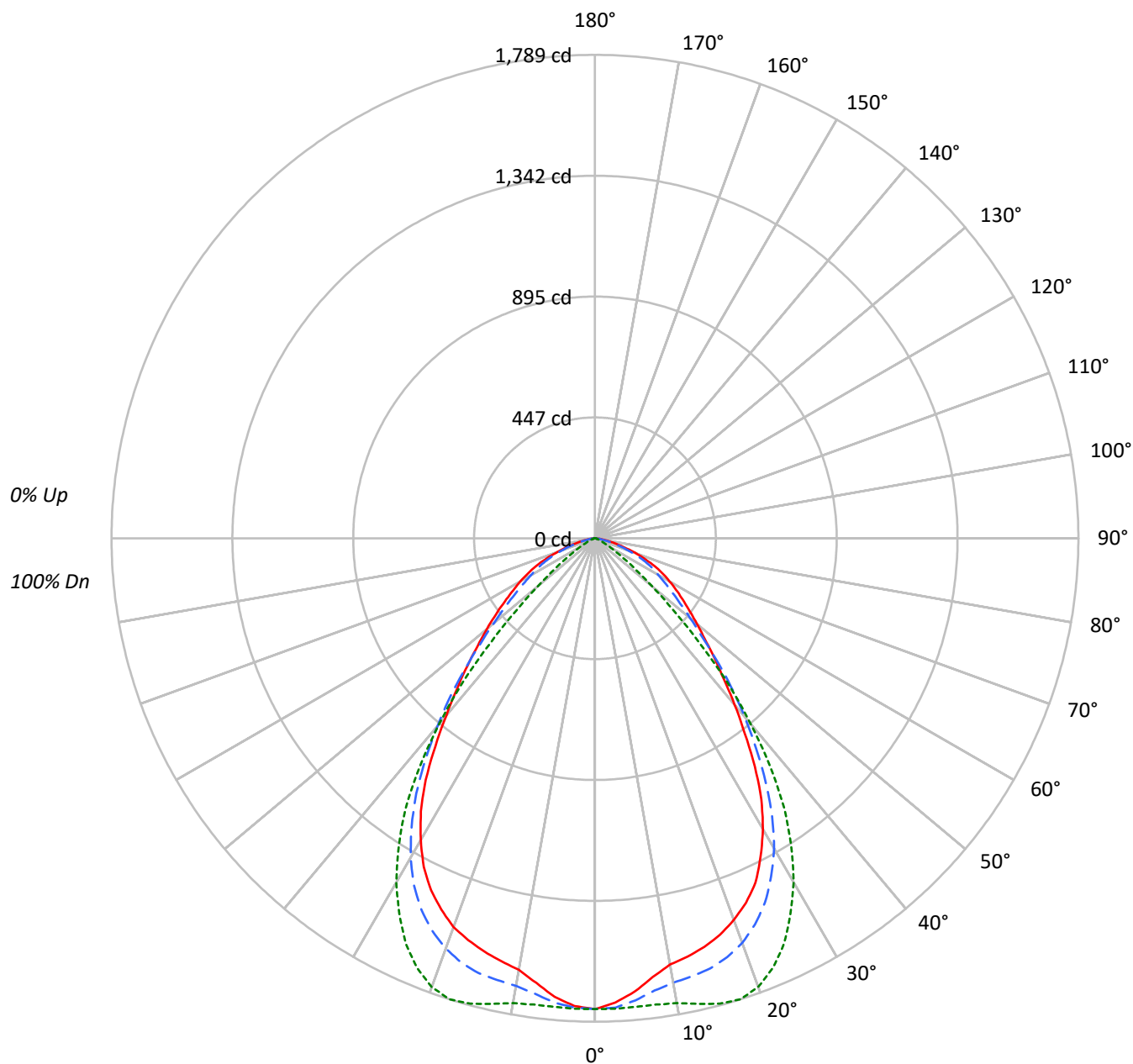
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252585

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBDW1LI

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	108	105	102	109	106	103	100	102	99	97		98	96	94		94
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86
3	96	88	81	76	94	86	80	76	84	79	74		81	77	73		79
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61
7	73	61	54	49	72	61	53	48	59	53	48		58	52	48		57
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	113675	113675	113675
5°	110285	113979	111608
10°	106088	115701	107426
15°	105717	120407	106939
20°	104329	122651	106287
25°	101211	119193	103392
30°	93632	110778	97120
35°	82145	97381	86955
40°	68448	76342	72910
45°	57619	50367	61522
50°	49885	27597	52951
55°	45133	14662	46282
60°	41532	7620	41532
65°	37621	4045	36694
70°	30348	2308	28040
75°	20821	1512	19283
80°	13638	751	12098
85°	9057	1497	7560



TEST NUMBER: P252585

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	5.4
10°-20°	469.8	15.6
20°-30°	694.2	23.0
30°-40°	701.2	23.2
40°-50°	483.3	16.0
50°-60°	277.6	9.2
60°-70°	161.5	5.4
70°-80°	58.9	2.0
80°-90°	9.0	0.3
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°	1326.5	44.0
0°-40°	2027.6	67.2
0°-60°	2788.5	92.4
0°-90°	3018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3018.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1742	1742	1742	1742	1742	
5°	1684	1716	1740	1724	1704	158
15°	1565	1648	1783	1666	1583	441
25°	1406	1489	1656	1519	1436	641
35°	1031	1102	1223	1152	1092	640
45°	624	632	546	673	667	486
55°	397	348	129	363	407	357
65°	244	206	26	204	238	239
75°	83	66	6	64	76	93
85°	12	6	2	8	10	15
90°	0	0	0	0	0	



TEST NUMBER: P252585

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4
2.5°	1720.3	1722.3	1724.3	1722.3	1724.3	1732.4	1726.3	1730.4	1730.4	1732.4	1738.4
5°	1684.0	1684.0	1688.1	1686.0	1692.1	1700.1	1694.1	1700.1	1702.2	1706.2	1716.3
7.5°	1637.7	1637.7	1639.7	1639.7	1647.8	1655.8	1651.8	1659.9	1667.9	1676.0	1688.1
10°	1601.4	1605.5	1605.5	1607.5	1615.5	1625.6	1623.6	1633.7	1641.7	1653.8	1669.9
12.5°	1585.3	1587.3	1587.3	1591.4	1599.4	1609.5	1607.5	1617.5	1629.6	1643.7	1659.9
15°	1565.2	1569.2	1567.2	1571.2	1579.3	1589.3	1587.3	1597.4	1611.5	1625.6	1647.8
17.5°	1539.0	1541.0	1543.0	1543.0	1551.1	1559.1	1559.1	1569.2	1585.3	1601.4	1625.6
20°	1502.7	1506.8	1506.8	1508.8	1514.8	1526.9	1524.9	1535.0	1551.1	1567.2	1593.4
22.5°	1460.4	1462.4	1462.4	1464.5	1474.5	1480.6	1482.6	1490.6	1504.7	1522.9	1547.0
25°	1406.0	1408.1	1406.0	1412.1	1416.1	1428.2	1424.2	1434.2	1450.4	1464.5	1488.6
27.5°	1327.5	1331.5	1331.5	1333.5	1343.6	1353.7	1353.7	1363.7	1377.8	1387.9	1412.1
30°	1242.9	1248.9	1242.9	1252.9	1257.0	1265.0	1271.1	1277.1	1289.2	1303.3	1325.5
32.5°	1146.2	1144.2	1146.2	1150.2	1162.3	1168.3	1172.4	1178.4	1190.5	1202.6	1220.7
35°	1031.4	1035.4	1037.4	1045.5	1045.5	1055.5	1057.6	1061.6	1079.7	1087.8	1101.9
37.5°	910.5	914.5	916.5	920.6	928.6	932.7	938.7	944.7	956.8	970.9	979.0
40°	803.7	803.7	805.8	809.8	815.8	817.8	823.9	831.9	840.0	852.1	860.1
42.5°	703.0	705.0	703.0	707.0	713.1	721.1	719.1	729.2	731.2	739.3	745.3
45°	624.5	624.5	620.4	624.5	624.5	632.5	630.5	634.5	632.5	636.5	632.5
47.5°	549.9	551.9	549.9	551.9	551.9	551.9	554.0	549.9	551.9	545.9	533.8
50°	491.5	493.5	489.5	491.5	489.5	487.5	489.5	483.5	481.4	473.4	461.3
52.5°	441.1	439.1	437.1	437.1	437.1	435.1	433.1	427.0	421.0	412.9	398.8
55°	396.8	394.8	392.8	392.8	388.8	386.8	386.8	380.7	374.7	364.6	348.5
57.5°	356.5	354.5	352.5	352.5	350.5	346.5	346.5	340.4	332.4	320.3	306.2
60°	318.3	318.3	318.3	316.3	316.3	312.2	312.2	306.2	298.1	286.0	269.9
62.5°	284.0	282.0	282.0	282.0	282.0	280.0	278.0	274.0	265.9	253.8	239.7
65°	243.7	243.7	243.7	243.7	241.7	241.7	241.7	235.7	231.7	219.6	205.5
67.5°	199.4	199.4	199.4	199.4	197.4	199.4	199.4	195.4	191.4	179.3	167.2
70°	159.1	157.1	155.1	157.1	155.1	155.1	157.1	153.1	151.1	141.0	128.9
72.5°	116.8	118.8	116.8	116.8	116.8	114.8	116.8	114.8	110.8	102.7	94.7
75°	82.6	84.6	84.6	82.6	82.6	82.6	80.6	80.6	76.5	70.5	66.5
77.5°	56.4	56.4	56.4	56.4	54.4	54.4	54.4	52.4	50.4	46.3	42.3
80°	36.3	36.3	36.3	36.3	34.2	34.2	34.2	32.2	32.2	28.2	24.2
82.5°	22.2	22.2	22.2	22.2	22.2	22.2	20.1	20.1	18.1	16.1	14.1
85°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	10.1	10.1	8.1	6.0
87.5°	4.0	4.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0
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: P252585

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4
2.5°	1734.4	1736.4	1736.4	1736.4	1742.4	1744.5	1738.4	1732.4	1744.5	1742.4	1746.5
5°	1714.2	1720.3	1724.3	1726.3	1732.4	1736.4	1730.4	1728.3	1738.4	1740.4	1742.4
7.5°	1690.1	1700.1	1710.2	1714.2	1722.3	1726.3	1724.3	1724.3	1736.4	1740.4	1740.4
10°	1674.0	1688.1	1700.1	1710.2	1720.3	1726.3	1726.3	1728.3	1742.4	1746.5	1750.5
12.5°	1669.9	1688.1	1704.2	1718.3	1726.3	1736.4	1738.4	1744.5	1758.6	1764.6	1764.6
15°	1659.9	1684.0	1704.2	1722.3	1734.4	1746.5	1750.5	1762.6	1778.7	1782.7	1786.8
17.5°	1641.7	1665.9	1690.1	1712.2	1728.3	1738.4	1750.5	1762.6	1782.7	1788.8	1790.8
20°	1609.5	1637.7	1661.9	1684.0	1700.1	1714.2	1726.3	1740.4	1758.6	1766.6	1768.6
22.5°	1561.1	1589.3	1613.5	1637.7	1653.8	1665.9	1678.0	1694.1	1712.2	1720.3	1720.3
25°	1502.7	1528.9	1555.1	1573.2	1589.3	1603.4	1609.5	1627.6	1645.8	1655.8	1655.8
27.5°	1428.2	1452.4	1476.5	1496.7	1506.8	1518.8	1528.9	1545.0	1559.1	1567.2	1575.2
30°	1333.5	1357.7	1379.9	1400.0	1412.1	1424.2	1434.2	1446.3	1460.4	1470.5	1472.5
32.5°	1230.8	1250.9	1273.1	1293.2	1305.3	1309.3	1319.4	1331.5	1343.6	1351.7	1353.7
35°	1118.0	1132.1	1146.2	1164.3	1176.4	1176.4	1186.5	1194.5	1204.6	1222.7	1218.7
37.5°	985.0	1005.2	1015.2	1021.3	1029.3	1037.4	1039.4	1049.5	1061.6	1065.6	1071.7
40°	860.1	866.2	872.2	872.2	880.3	880.3	880.3	882.3	894.4	896.4	904.5
42.5°	735.2	735.2	729.2	723.2	725.2	723.2	713.1	713.1	719.1	727.2	727.2
45°	618.4	604.3	586.2	572.1	562.0	558.0	545.9	545.9	543.9	545.9	554.0
47.5°	519.7	495.5	465.3	437.1	427.0	419.0	400.9	392.8	388.8	390.8	394.8
50°	437.1	410.9	376.7	342.4	324.3	314.2	292.1	278.0	276.0	271.9	280.0
52.5°	376.7	344.5	308.2	267.9	249.8	233.7	209.5	197.4	189.4	189.4	191.4
55°	324.3	290.1	249.8	209.5	191.4	179.3	155.1	139.0	130.9	128.9	135.0
57.5°	280.0	247.8	207.5	167.2	149.1	135.0	110.8	96.7	90.6	86.6	88.6
60°	245.8	213.5	173.2	135.0	118.8	102.7	82.6	66.5	58.4	58.4	60.4
62.5°	213.5	183.3	147.0	110.8	96.7	82.6	60.4	46.3	40.3	38.3	40.3
65°	181.3	153.1	122.9	92.7	78.6	66.5	48.3	36.3	28.2	26.2	28.2
67.5°	147.0	124.9	98.7	74.5	62.4	52.4	36.3	26.2	20.1	18.1	20.1
70°	114.8	94.7	74.5	54.4	46.3	38.3	26.2	20.1	14.1	12.1	14.1
72.5°	82.6	68.5	52.4	38.3	32.2	26.2	18.1	14.1	10.1	8.1	10.1
75°	56.4	46.3	34.2	24.2	20.1	18.1	12.1	8.1	6.0	6.0	6.0
77.5°	36.3	28.2	22.2	16.1	12.1	10.1	6.0	4.0	4.0	4.0	4.0
80°	20.1	16.1	12.1	8.1	6.0	6.0	4.0	4.0	2.0	2.0	2.0
82.5°	12.1	8.1	6.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	6.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	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: P252585

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4
2.5°	1738.4	1740.4	1734.4	1742.4	1736.4	1744.5	1744.5	1736.4	1738.4	1734.4	1742.4
5°	1734.4	1734.4	1730.4	1736.4	1728.3	1736.4	1734.4	1720.3	1724.3	1716.3	1724.3
7.5°	1734.4	1730.4	1724.3	1730.4	1720.3	1726.3	1718.3	1704.2	1700.1	1690.1	1690.1
10°	1740.4	1734.4	1726.3	1728.3	1718.3	1720.3	1708.2	1688.1	1682.0	1669.9	1665.9
12.5°	1754.5	1748.5	1736.4	1740.4	1726.3	1726.3	1710.2	1686.0	1674.0	1657.8	1653.8
15°	1774.7	1764.6	1750.5	1752.5	1738.4	1730.4	1710.2	1682.0	1665.9	1643.7	1637.7
17.5°	1778.7	1768.6	1750.5	1750.5	1732.4	1722.3	1698.1	1665.9	1645.8	1623.6	1611.5
20°	1756.5	1746.5	1726.3	1724.3	1708.2	1694.1	1667.9	1635.7	1615.5	1591.4	1581.3
22.5°	1710.2	1698.1	1680.0	1678.0	1661.9	1653.8	1625.6	1593.4	1573.2	1549.1	1541.0
25°	1641.7	1635.7	1617.5	1615.5	1601.4	1591.4	1567.2	1537.0	1518.8	1494.7	1486.6
27.5°	1561.1	1555.1	1537.0	1537.0	1520.9	1514.8	1492.7	1464.5	1450.4	1428.2	1418.1
30°	1464.5	1456.4	1446.3	1444.3	1430.2	1424.2	1404.0	1377.8	1363.7	1345.6	1341.6
32.5°	1349.6	1343.6	1337.6	1335.5	1321.4	1315.4	1301.3	1275.1	1263.0	1246.9	1240.9
35°	1216.7	1212.7	1206.6	1204.6	1198.6	1192.5	1178.4	1158.3	1152.2	1140.1	1134.1
37.5°	1063.6	1067.6	1063.6	1063.6	1057.6	1059.6	1047.5	1035.4	1029.3	1021.3	1017.3
40°	898.4	906.5	912.5	912.5	910.5	918.6	916.5	906.5	904.5	900.4	898.4
42.5°	731.2	735.2	747.3	755.4	753.4	773.5	775.5	783.6	789.6	785.6	787.6
45°	556.0	568.1	584.2	592.2	602.3	628.5	642.6	658.7	672.8	680.9	678.8
47.5°	400.9	415.0	433.1	445.2	463.3	495.5	531.8	551.9	572.1	582.2	592.2
50°	290.1	304.2	326.3	344.5	356.5	400.9	439.1	465.3	487.5	501.6	511.7
52.5°	203.5	219.6	243.7	259.9	278.0	320.3	364.6	394.8	419.0	437.1	447.2
55°	141.0	159.1	181.3	197.4	217.6	261.9	304.2	336.4	362.6	378.7	390.8
57.5°	98.7	114.8	137.0	151.1	171.2	213.5	255.8	288.1	314.2	330.4	344.5
60°	66.5	82.6	104.7	118.8	135.0	177.3	215.5	249.8	274.0	290.1	304.2
62.5°	46.3	60.4	82.6	96.7	110.8	147.0	183.3	213.5	237.7	255.8	267.9
65°	36.3	48.3	66.5	78.6	92.7	122.9	153.1	179.3	203.5	221.6	229.6
67.5°	26.2	38.3	52.4	62.4	72.5	98.7	124.9	145.0	167.2	181.3	191.4
70°	18.1	26.2	38.3	46.3	54.4	74.5	94.7	112.8	128.9	139.0	147.0
72.5°	14.1	18.1	26.2	32.2	38.3	52.4	68.5	82.6	94.7	102.7	110.8
75°	8.1	12.1	18.1	22.2	26.2	36.3	46.3	56.4	64.5	70.5	74.5
77.5°	4.0	6.0	10.1	12.1	16.1	22.2	30.2	36.3	42.3	46.3	50.4
80°	4.0	4.0	6.0	6.0	8.1	12.1	16.1	20.1	24.2	28.2	30.2
82.5°	2.0	2.0	4.0	4.0	4.0	6.0	8.1	12.1	14.1	16.1	18.1
85°	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.0	8.1	10.1	10.1
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	6.0
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: P252585

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4
2.5°	1736.4	1740.4	1738.4	1742.4	1736.4	1734.4	1738.4	1732.4
5°	1714.2	1716.3	1714.2	1714.2	1710.2	1706.2	1710.2	1704.2
7.5°	1680.0	1680.0	1674.0	1674.0	1665.9	1661.9	1661.9	1659.9
10°	1651.8	1645.8	1639.7	1641.7	1629.6	1625.6	1623.6	1621.6
12.5°	1637.7	1633.7	1623.6	1623.6	1611.5	1607.5	1605.5	1603.4
15°	1621.6	1613.5	1605.5	1603.4	1593.4	1589.3	1587.3	1583.3
17.5°	1593.4	1587.3	1577.3	1577.3	1567.2	1565.2	1561.1	1559.1
20°	1563.2	1555.1	1547.0	1547.0	1535.0	1535.0	1528.9	1530.9
22.5°	1520.9	1514.8	1506.8	1506.8	1496.7	1494.7	1488.6	1486.6
25°	1470.5	1462.4	1456.4	1454.4	1446.3	1442.3	1440.3	1436.3
27.5°	1404.0	1398.0	1391.9	1387.9	1377.8	1375.8	1369.8	1371.8
30°	1321.4	1317.4	1315.4	1311.4	1299.3	1295.2	1295.2	1289.2
32.5°	1230.8	1224.7	1220.7	1214.7	1204.6	1202.6	1196.5	1198.6
35°	1120.0	1111.9	1105.9	1107.9	1095.8	1093.8	1089.8	1091.8
37.5°	1005.2	997.1	989.1	987.0	977.0	977.0	970.9	970.9
40°	886.3	878.3	874.2	874.2	862.2	864.2	858.1	856.1
42.5°	779.6	771.5	769.5	767.5	761.4	759.4	753.4	755.4
45°	678.8	676.8	676.8	672.8	666.8	664.7	666.8	666.8
47.5°	590.2	592.2	590.2	590.2	586.2	590.2	586.2	588.2
50°	515.7	519.7	519.7	519.7	517.7	519.7	519.7	521.7
52.5°	453.2	459.3	457.3	459.3	457.3	461.3	459.3	461.3
55°	398.8	402.9	404.9	406.9	406.9	406.9	406.9	406.9
57.5°	348.5	354.5	356.5	358.6	358.6	362.6	358.6	358.6
60°	308.2	314.2	316.3	318.3	318.3	320.3	316.3	318.3
62.5°	271.9	278.0	278.0	280.0	280.0	280.0	276.0	278.0
65°	235.7	237.7	239.7	239.7	237.7	237.7	235.7	237.7
67.5°	195.4	197.4	195.4	195.4	193.4	193.4	189.4	191.4
70°	151.1	151.1	153.1	151.1	149.1	151.1	149.1	147.0
72.5°	112.8	112.8	112.8	110.8	110.8	108.8	110.8	110.8
75°	76.5	76.5	78.6	78.6	78.6	78.6	76.5	76.5
77.5°	50.4	50.4	50.4	50.4	52.4	50.4	50.4	50.4
80°	32.2	32.2	34.2	34.2	32.2	32.2	32.2	32.2
82.5°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
85°	12.1	12.1	12.1	12.1	10.1	10.1	10.1	10.1
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0
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)