

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: P252587

Luminaire Tested: **LD6B30D010 EU6B30508050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252587
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 EU6B30508050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3049.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

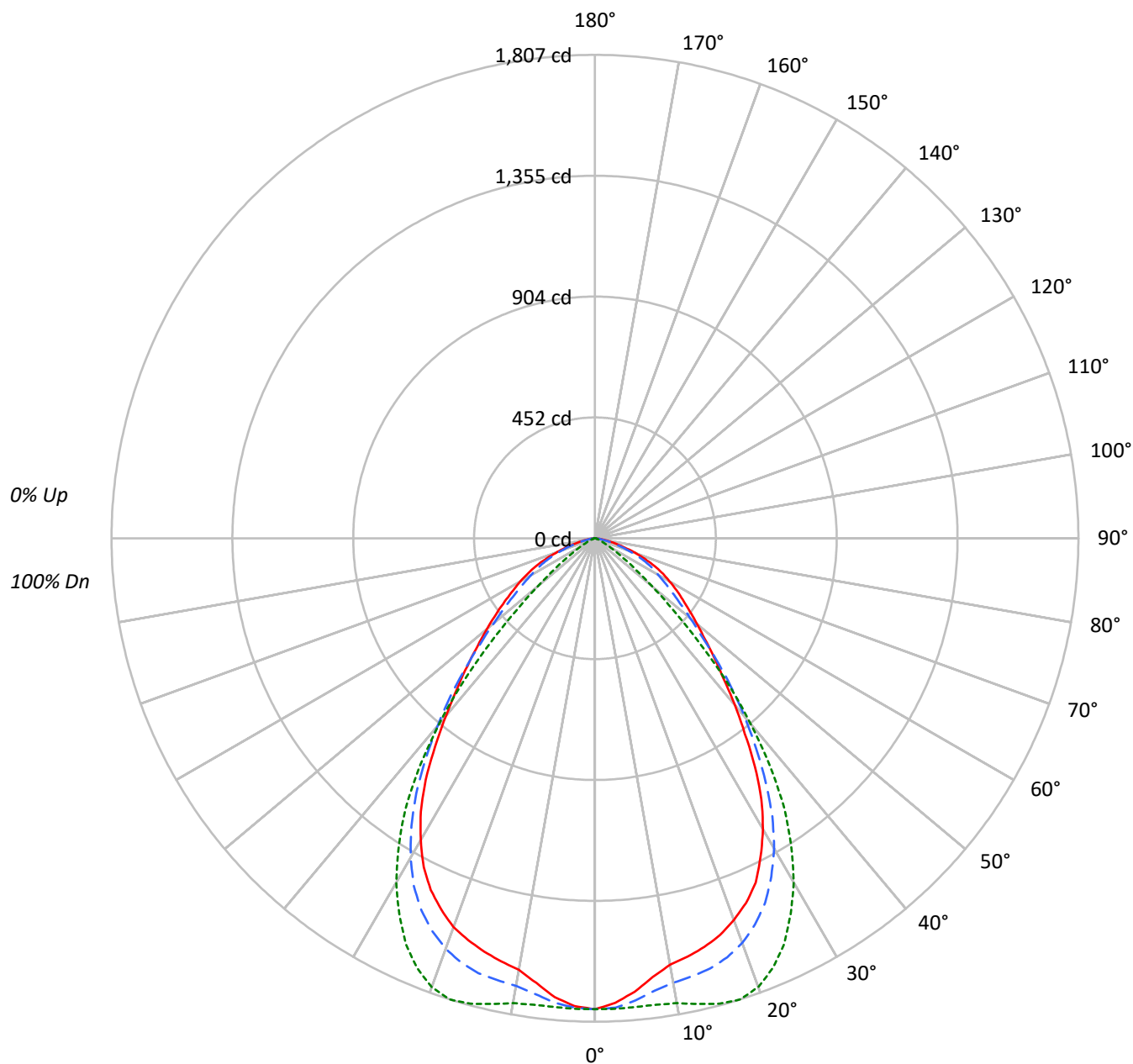
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79		
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70		
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50		
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46		
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42		
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	114843	114843	114843
5°	111418	115151	112754
10°	107181	116886	108526
15°	106804	121643	108040
20°	105405	123914	107384
25°	102255	120417	104450
30°	94589	111915	98114
35°	82989	98384	87847
40°	69154	77126	73660
45°	58209	50884	62149
50°	50403	27881	53499
55°	45600	14809	46760
60°	41950	7698	41950
65°	38007	4091	37065
70°	30673	2327	28346
75°	21023	1538	19485
80°	13751	751	12248
85°	9132	1497	7635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	5.4
10°-20°	474.7	15.6
20°-30°	701.3	23.0
30°-40°	708.4	23.2
40°-50°	488.2	16.0
50°-60°	280.4	9.2
60°-70°	163.2	5.4
70°-80°	59.5	2.0
80°-90°	9.1	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°	1340.1	44.0
0°-40°	2048.5	67.2
0°-60°	2817.1	92.4
0°-90°	3049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1760	1760	1760	1760	1760	
5°	1701	1734	1758	1742	1722	160
15°	1581	1665	1801	1683	1600	445
25°	1420	1504	1673	1534	1451	647
35°	1042	1113	1235	1164	1103	647
45°	631	639	552	680	674	491
55°	401	352	130	366	411	361
65°	246	208	26	206	240	241
75°	83	67	6	65	77	94
85°	12	6	2	8	10	15
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°	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3
2.5°	1738.0	1740.0	1742.0	1740.0	1742.0	1750.2	1744.1	1748.1	1748.1	1750.2	1756.3
5°	1701.3	1701.3	1705.4	1703.4	1709.5	1717.6	1711.5	1717.6	1719.6	1723.7	1733.9
7.5°	1654.5	1654.5	1656.6	1656.6	1664.7	1672.8	1668.8	1676.9	1685.0	1693.2	1705.4
10°	1617.9	1622.0	1622.0	1624.0	1632.1	1642.3	1640.3	1650.4	1658.6	1670.8	1687.1
12.5°	1601.6	1603.6	1603.6	1607.7	1615.8	1626.0	1624.0	1634.2	1646.4	1660.6	1676.9
15°	1581.3	1585.3	1583.3	1587.4	1595.5	1605.7	1603.6	1613.8	1628.1	1642.3	1664.7
17.5°	1554.8	1556.8	1558.9	1558.9	1567.0	1575.1	1575.1	1585.3	1601.6	1617.9	1642.3
20°	1518.2	1522.2	1522.2	1524.3	1530.4	1542.6	1540.6	1550.7	1567.0	1583.3	1609.7
22.5°	1475.4	1477.5	1477.5	1479.5	1489.7	1495.8	1497.8	1506.0	1520.2	1538.5	1562.9
25°	1420.5	1422.5	1420.5	1426.6	1430.7	1442.9	1438.8	1449.0	1465.3	1479.5	1503.9
27.5°	1341.1	1345.2	1345.2	1347.2	1357.4	1367.6	1367.6	1377.7	1392.0	1402.2	1426.6
30°	1255.6	1261.7	1255.6	1265.8	1269.9	1278.0	1284.1	1290.2	1302.4	1316.7	1339.1
32.5°	1158.0	1155.9	1158.0	1162.0	1174.2	1180.3	1184.4	1190.5	1202.7	1214.9	1233.3
35°	1042.0	1046.0	1048.1	1056.2	1056.2	1066.4	1068.4	1072.5	1090.8	1098.9	1113.2
37.5°	919.9	923.9	926.0	930.0	938.2	942.2	948.3	954.5	966.7	980.9	989.0
40°	812.0	812.0	814.0	818.1	824.2	826.2	832.3	840.5	848.6	860.8	869.0
42.5°	710.2	712.3	710.2	714.3	720.4	728.6	726.5	736.7	738.7	746.9	753.0
45°	630.9	630.9	626.8	630.9	630.9	639.0	637.0	641.0	639.0	643.1	639.0
47.5°	555.6	557.6	555.6	557.6	557.6	557.6	559.6	555.6	557.6	551.5	539.3
50°	496.6	498.6	494.5	496.6	494.5	492.5	494.5	488.4	486.4	478.2	466.0
52.5°	445.7	443.6	441.6	441.6	441.6	439.6	437.5	431.4	425.3	417.2	402.9
55°	400.9	398.9	396.8	396.8	392.8	390.7	390.7	384.6	378.5	368.3	352.1
57.5°	360.2	358.2	356.1	356.1	354.1	350.0	350.0	343.9	335.8	323.6	309.3
60°	321.5	321.5	321.5	319.5	319.5	315.4	315.4	309.3	301.2	289.0	272.7
62.5°	286.9	284.9	284.9	284.9	284.9	282.9	280.8	276.8	268.6	256.4	242.2
65°	246.2	246.2	246.2	246.2	244.2	244.2	244.2	238.1	234.0	221.8	207.6
67.5°	201.5	201.5	201.5	201.5	199.4	201.5	201.5	197.4	193.3	181.1	168.9
70°	160.8	158.7	156.7	158.7	156.7	156.7	158.7	154.7	152.6	142.5	130.2
72.5°	118.0	120.1	118.0	118.0	118.0	116.0	118.0	116.0	111.9	103.8	95.6
75°	83.4	85.5	85.5	83.4	83.4	83.4	81.4	81.4	77.3	71.2	67.2
77.5°	57.0	57.0	57.0	57.0	54.9	54.9	54.9	52.9	50.9	46.8	42.7
80°	36.6	36.6	36.6	36.6	34.6	34.6	34.6	32.6	32.6	28.5	24.4
82.5°	22.4	22.4	22.4	22.4	22.4	22.4	20.4	20.4	18.3	16.3	14.2
85°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	10.2	10.2	8.1	6.1
87.5°	4.1	4.1	6.1	6.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3
2.5°	1752.2	1754.2	1754.2	1754.2	1760.3	1762.4	1756.3	1750.2	1762.4	1760.3	1764.4
5°	1731.8	1738.0	1742.0	1744.1	1750.2	1754.2	1748.1	1746.1	1756.3	1758.3	1760.3
7.5°	1707.4	1717.6	1727.8	1731.8	1740.0	1744.1	1742.0	1742.0	1754.2	1758.3	1758.3
10°	1691.1	1705.4	1717.6	1727.8	1738.0	1744.1	1744.1	1746.1	1760.3	1764.4	1768.5
12.5°	1687.1	1705.4	1721.7	1735.9	1744.1	1754.2	1756.3	1762.4	1776.6	1782.7	1782.7
15°	1676.9	1701.3	1721.7	1740.0	1752.2	1764.4	1768.5	1780.7	1797.0	1801.0	1805.1
17.5°	1658.6	1683.0	1707.4	1729.8	1746.1	1756.3	1768.5	1780.7	1801.0	1807.1	1809.2
20°	1626.0	1654.5	1678.9	1701.3	1717.6	1731.8	1744.1	1758.3	1776.6	1784.8	1786.8
22.5°	1577.2	1605.7	1630.1	1654.5	1670.8	1683.0	1695.2	1711.5	1729.8	1738.0	1738.0
25°	1518.2	1544.6	1571.1	1589.4	1605.7	1619.9	1626.0	1644.3	1662.7	1672.8	1672.8
27.5°	1442.9	1467.3	1491.7	1512.1	1522.2	1534.4	1544.6	1560.9	1575.1	1583.3	1591.4
30°	1347.2	1371.6	1394.0	1414.4	1426.6	1438.8	1449.0	1461.2	1475.4	1485.6	1487.6
32.5°	1243.4	1263.8	1286.2	1306.5	1318.7	1322.8	1333.0	1345.2	1357.4	1365.5	1367.6
35°	1129.5	1143.7	1158.0	1176.3	1188.5	1188.5	1198.7	1206.8	1217.0	1235.3	1231.2
37.5°	995.2	1015.5	1025.7	1031.8	1039.9	1048.1	1050.1	1060.3	1072.5	1076.6	1082.7
40°	869.0	875.1	881.2	881.2	889.3	889.3	889.3	891.4	903.6	905.6	913.7
42.5°	742.8	742.8	736.7	730.6	732.6	730.6	720.4	720.4	726.5	734.7	734.7
45°	624.8	610.5	592.2	578.0	567.8	563.7	551.5	551.5	549.5	551.5	559.6
47.5°	525.0	500.6	470.1	441.6	431.4	423.3	405.0	396.8	392.8	394.8	398.9
50°	441.6	415.2	380.6	346.0	327.6	317.5	295.1	280.8	278.8	274.7	282.9
52.5°	380.6	348.0	311.4	270.7	252.3	236.1	211.6	199.4	191.3	191.3	193.3
55°	327.6	293.1	252.3	211.6	193.3	181.1	156.7	140.4	132.3	130.2	136.4
57.5°	282.9	250.3	209.6	168.9	150.6	136.4	111.9	97.7	91.6	87.5	89.5
60°	248.3	215.7	175.0	136.4	120.1	103.8	83.4	67.2	59.0	59.0	61.1
62.5°	215.7	185.2	148.6	111.9	97.7	83.4	61.1	46.8	40.7	38.7	40.7
65°	183.2	154.7	124.1	93.6	79.4	67.2	48.8	36.6	28.5	26.5	28.5
67.5°	148.6	126.2	99.7	75.3	63.1	52.9	36.6	26.5	20.4	18.3	20.4
70°	116.0	95.6	75.3	54.9	46.8	38.7	26.5	20.4	14.2	12.2	14.2
72.5°	83.4	69.2	52.9	38.7	32.6	26.5	18.3	14.2	10.2	8.1	10.2
75°	57.0	46.8	34.6	24.4	20.4	18.3	12.2	8.1	6.1	6.1	6.1
77.5°	36.6	28.5	22.4	16.3	12.2	10.2	6.1	4.1	4.1	4.1	4.1
80°	20.4	16.3	12.2	8.1	6.1	6.1	4.1	4.1	2.0	2.0	2.0
82.5°	12.2	8.1	6.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0	2.0
85°	6.1	4.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3
2.5°	1756.3	1758.3	1752.2	1760.3	1754.2	1762.4	1762.4	1754.2	1756.3	1752.2	1760.3
5°	1752.2	1752.2	1748.1	1754.2	1746.1	1754.2	1752.2	1738.0	1742.0	1733.9	1742.0
7.5°	1752.2	1748.1	1742.0	1748.1	1738.0	1744.1	1735.9	1721.7	1717.6	1707.4	1707.4
10°	1758.3	1752.2	1744.1	1746.1	1735.9	1738.0	1725.7	1705.4	1699.3	1687.1	1683.0
12.5°	1772.6	1766.4	1754.2	1758.3	1744.1	1744.1	1727.8	1703.4	1691.1	1674.9	1670.8
15°	1792.9	1782.7	1768.5	1770.5	1756.3	1748.1	1727.8	1699.3	1683.0	1660.6	1654.5
17.5°	1797.0	1786.8	1768.5	1768.5	1750.2	1740.0	1715.6	1683.0	1662.7	1640.3	1628.1
20°	1774.6	1764.4	1744.1	1742.0	1725.7	1711.5	1685.0	1652.5	1632.1	1607.7	1597.5
22.5°	1727.8	1715.6	1697.3	1695.2	1678.9	1670.8	1642.3	1609.7	1589.4	1565.0	1556.8
25°	1658.6	1652.5	1634.2	1632.1	1617.9	1607.7	1583.3	1552.8	1534.4	1510.0	1501.9
27.5°	1577.2	1571.1	1552.8	1552.8	1536.5	1530.4	1508.0	1479.5	1465.3	1442.9	1432.7
30°	1479.5	1471.4	1461.2	1459.1	1444.9	1438.8	1418.4	1392.0	1377.7	1359.4	1355.4
32.5°	1363.5	1357.4	1351.3	1349.3	1335.0	1328.9	1314.7	1288.2	1276.0	1259.7	1253.6
35°	1229.2	1225.1	1219.0	1217.0	1210.9	1204.8	1190.5	1170.2	1164.1	1151.9	1145.7
37.5°	1074.5	1078.6	1074.5	1074.5	1068.4	1070.4	1058.2	1046.0	1039.9	1031.8	1027.7
40°	907.6	915.8	921.9	921.9	919.9	928.0	926.0	915.8	913.7	909.7	907.6
42.5°	738.7	742.8	755.0	763.2	761.1	781.5	783.5	791.6	797.7	793.7	795.7
45°	561.7	573.9	590.2	598.3	608.5	634.9	649.2	665.5	679.7	687.9	685.8
47.5°	405.0	419.2	437.5	449.8	468.1	500.6	537.3	557.6	578.0	588.1	598.3
50°	293.1	307.3	329.7	348.0	360.2	405.0	443.6	470.1	492.5	506.7	516.9
52.5°	205.5	221.8	246.2	262.5	280.8	323.6	368.3	398.9	423.3	441.6	451.8
55°	142.5	160.8	183.2	199.4	219.8	264.6	307.3	339.9	366.3	382.6	394.8
57.5°	99.7	116.0	138.4	152.6	173.0	215.7	258.5	291.0	317.5	333.8	348.0
60°	67.2	83.4	105.8	120.1	136.4	179.1	217.8	252.3	276.8	293.1	307.3
62.5°	46.8	61.1	83.4	97.7	111.9	148.6	185.2	215.7	240.1	258.5	270.7
65°	36.6	48.8	67.2	79.4	93.6	124.1	154.7	181.1	205.5	223.9	232.0
67.5°	26.5	38.7	52.9	63.1	73.3	99.7	126.2	146.5	168.9	183.2	193.3
70°	18.3	26.5	38.7	46.8	54.9	75.3	95.6	114.0	130.2	140.4	148.6
72.5°	14.2	18.3	26.5	32.6	38.7	52.9	69.2	83.4	95.6	103.8	111.9
75°	8.1	12.2	18.3	22.4	26.5	36.6	46.8	57.0	65.1	71.2	75.3
77.5°	4.1	6.1	10.2	12.2	16.3	22.4	30.5	36.6	42.7	46.8	50.9
80°	4.1	4.1	6.1	6.1	8.1	12.2	16.3	20.4	24.4	28.5	30.5
82.5°	2.0	2.0	4.1	4.1	4.1	6.1	8.1	12.2	14.2	16.3	18.3
85°	2.0	2.0	2.0	2.0	2.0	4.1	4.1	6.1	8.1	10.2	10.2
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1	6.1
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: P252587

CATALOG NUMBER: LD6B30D010 EU6B30508050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3
2.5°	1754.2	1758.3	1756.3	1760.3	1754.2	1752.2	1756.3	1750.2
5°	1731.8	1733.9	1731.8	1731.8	1727.8	1723.7	1727.8	1721.7
7.5°	1697.3	1697.3	1691.1	1691.1	1683.0	1678.9	1678.9	1676.9
10°	1668.8	1662.7	1656.6	1658.6	1646.4	1642.3	1640.3	1638.2
12.5°	1654.5	1650.4	1640.3	1640.3	1628.1	1624.0	1622.0	1619.9
15°	1638.2	1630.1	1622.0	1619.9	1609.7	1605.7	1603.6	1599.6
17.5°	1609.7	1603.6	1593.5	1593.5	1583.3	1581.3	1577.2	1575.1
20°	1579.2	1571.1	1562.9	1562.9	1550.7	1550.7	1544.6	1546.7
22.5°	1536.5	1530.4	1522.2	1522.2	1512.1	1510.0	1503.9	1501.9
25°	1485.6	1477.5	1471.4	1469.3	1461.2	1457.1	1455.1	1451.0
27.5°	1418.4	1412.3	1406.2	1402.2	1392.0	1390.0	1383.9	1385.9
30°	1335.0	1330.9	1328.9	1324.8	1312.6	1308.6	1308.6	1302.4
32.5°	1243.4	1237.3	1233.3	1227.2	1217.0	1214.9	1208.8	1210.9
35°	1131.5	1123.4	1117.3	1119.3	1107.1	1105.0	1101.0	1103.0
37.5°	1015.5	1007.4	999.2	997.2	987.0	987.0	980.9	980.9
40°	895.4	887.3	883.2	883.2	871.0	873.0	866.9	864.9
42.5°	787.6	779.4	777.4	775.4	769.3	767.2	761.1	763.2
45°	685.8	683.8	683.8	679.7	673.6	671.6	673.6	673.6
47.5°	596.3	598.3	596.3	596.3	592.2	596.3	592.2	594.2
50°	521.0	525.0	525.0	525.0	523.0	525.0	525.0	527.1
52.5°	457.9	464.0	462.0	464.0	462.0	466.0	464.0	466.0
55°	402.9	407.0	409.1	411.1	411.1	411.1	411.1	411.1
57.5°	352.1	358.2	360.2	362.2	362.2	366.3	362.2	362.2
60°	311.4	317.5	319.5	321.5	321.5	323.6	319.5	321.5
62.5°	274.7	280.8	280.8	282.9	282.9	282.9	278.8	280.8
65°	238.1	240.1	242.2	242.2	240.1	240.1	238.1	240.1
67.5°	197.4	199.4	197.4	197.4	195.4	195.4	191.3	193.3
70°	152.6	152.6	154.7	152.6	150.6	152.6	150.6	148.6
72.5°	114.0	114.0	114.0	111.9	111.9	109.9	111.9	111.9
75°	77.3	77.3	79.4	79.4	79.4	79.4	77.3	77.3
77.5°	50.9	50.9	50.9	50.9	52.9	50.9	50.9	50.9
80°	32.6	32.6	34.6	34.6	32.6	32.6	32.6	32.6
82.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
85°	12.2	12.2	12.2	12.2	10.2	10.2	10.2	10.2
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	4.1	4.1
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)