

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: P252273

Luminaire Tested: **LD6B30D010 EU6B30508035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30508035 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2799.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

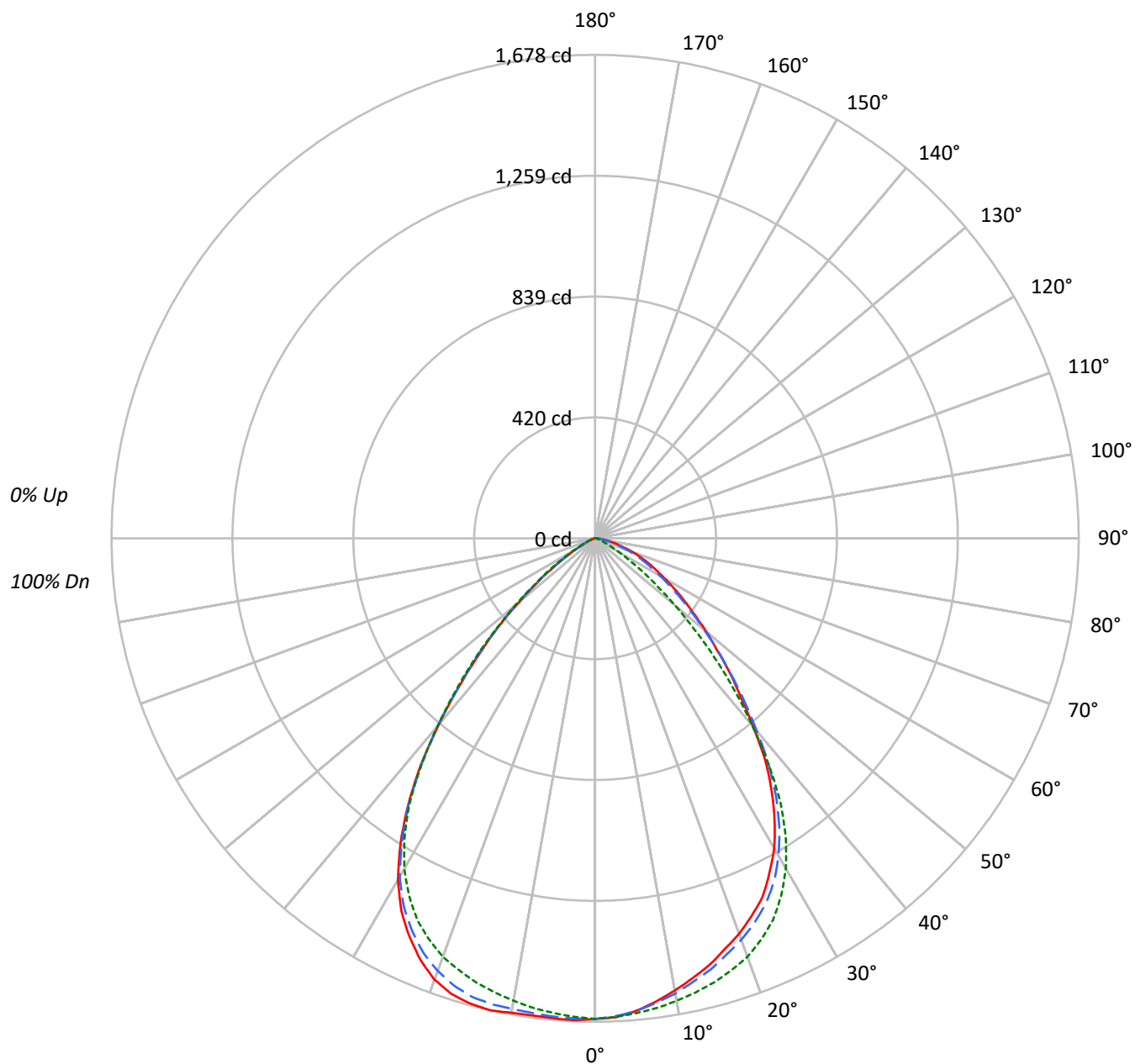
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	102		109	106	103	101		102	100	98		98	96	95		95	93	92
2	104	98	93	89		102	96	92	88		93	89	86		90	87	84		87	85	82
3	97	89	83	78		95	88	82	77		85	80	76		82	78	75		80	77	74
4	91	81	74	69		89	80	74	69		78	72	68		76	71	67		74	69	66
5	85	74	67	62		83	73	66	61		71	65	61		70	64	60		68	63	60
6	79	68	61	55		78	67	60	55		66	59	55		64	59	54		63	58	54
7	74	63	55	50		73	62	55	50		61	54	50		59	54	49		58	53	49
8	70	58	51	46		68	57	50	46		56	50	45		55	49	45		54	49	45
9	65	54	47	42		64	53	46	42		52	46	42		51	46	41		50	45	41
10	62	50	43	39		61	50	43	38		49	43	38		48	42	38		47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	108847	108847	108847
5°	107809	108340	109525
10°	105585	107989	110792
15°	103569	107784	112957
20°	101420	107300	113174
25°	98922	105156	109799
30°	93654	99726	103064
35°	85052	89385	90189
40°	72587	72246	71905
45°	60977	54094	52425
50°	50921	36610	34763
55°	42859	22464	20394
60°	36287	11835	10256
65°	31415	6221	4971
70°	26133	3834	2690
75°	19309	2546	1512
80°	15141	1503	751
85°	12052	1497	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	5.6
10°-20°	450.2	16.1
20°-30°	664.8	23.8
30°-40°	685.1	24.5
40°-50°	473.2	16.9
50°-60°	233.2	8.3
60°-70°	94.5	3.4
70°-80°	33.7	1.2
80°-90°	6.9	0.2
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°	1272.2	45.5
0°-40°	1957.4	69.9
0°-60°	2663.8	95.2
0°-90°	2799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2799.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1668	1668	1668	1668	1668	
5°	1646	1646	1654	1666	1672	155
15°	1533	1550	1596	1648	1672	432
25°	1374	1400	1461	1503	1525	628
35°	1068	1094	1122	1128	1132	662
45°	661	665	586	578	568	511
55°	377	363	198	185	179	340
65°	204	183	40	32	32	202
75°	77	64	10	6	6	86
85°	16	12	2	0	0	20
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°	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1664.3	1658.3	1662.3	1654.3	1664.3	1654.3	1656.3	1658.3	1656.3	1658.3	1660.3
5°	1646.2	1640.2	1646.2	1636.1	1646.2	1640.2	1640.2	1642.2	1642.2	1644.2	1646.2
7.5°	1622.0	1616.0	1622.0	1612.0	1624.0	1618.0	1618.0	1622.0	1620.0	1622.0	1626.1
10°	1593.8	1585.8	1591.8	1585.8	1597.9	1589.8	1593.8	1593.8	1593.8	1599.9	1603.9
12.5°	1563.6	1555.5	1563.6	1553.5	1565.6	1559.6	1561.6	1567.6	1569.6	1573.7	1575.7
15°	1533.4	1523.3	1527.3	1521.3	1533.4	1527.3	1529.3	1537.4	1537.4	1543.4	1549.5
17.5°	1495.1	1487.0	1495.1	1487.0	1497.1	1493.1	1497.1	1503.2	1503.2	1509.2	1515.2
20°	1460.8	1452.8	1458.8	1452.8	1464.9	1458.8	1460.8	1468.9	1470.9	1477.0	1483.0
22.5°	1418.5	1412.5	1416.5	1410.5	1422.6	1418.5	1420.5	1428.6	1430.6	1434.6	1444.7
25°	1374.2	1362.1	1368.1	1364.1	1376.2	1370.2	1374.2	1382.3	1386.3	1392.3	1400.4
27.5°	1309.7	1303.7	1307.7	1307.7	1317.8	1311.7	1313.7	1321.8	1327.9	1333.9	1344.0
30°	1243.2	1233.1	1237.2	1239.2	1247.3	1243.2	1247.3	1255.3	1257.3	1265.4	1273.4
32.5°	1158.6	1154.6	1162.6	1158.6	1162.6	1162.6	1164.6	1170.7	1174.7	1178.7	1188.8
35°	1067.9	1059.9	1067.9	1063.9	1074.0	1067.9	1074.0	1080.0	1080.0	1088.1	1094.1
37.5°	969.2	959.1	963.1	963.1	967.2	965.2	965.2	975.2	977.2	983.3	989.3
40°	852.3	848.3	856.4	854.3	856.4	856.4	858.4	864.4	868.4	870.5	872.5
42.5°	747.5	749.6	751.6	751.6	751.6	751.6	751.6	759.6	757.6	763.7	765.7
45°	660.9	652.8	656.9	654.9	660.9	654.9	660.9	666.9	662.9	669.0	664.9
47.5°	572.2	572.2	572.2	570.2	574.3	572.2	576.3	578.3	578.3	578.3	576.3
50°	501.7	495.7	497.7	497.7	499.7	497.7	501.7	503.7	503.7	499.7	491.6
52.5°	433.2	431.2	431.2	435.2	435.2	433.2	433.2	433.2	433.2	427.2	423.1
55°	376.8	372.8	374.8	374.8	374.8	374.8	376.8	374.8	374.8	368.7	362.7
57.5°	326.4	322.4	322.4	322.4	324.4	322.4	322.4	322.4	320.4	314.3	306.3
60°	278.1	276.0	278.1	278.1	280.1	278.1	278.1	278.1	274.0	268.0	259.9
62.5°	237.8	237.8	237.8	239.8	239.8	237.8	237.8	235.7	233.7	225.7	217.6
65°	203.5	201.5	203.5	203.5	205.5	205.5	203.5	201.5	199.5	191.4	183.4
67.5°	169.3	167.2	169.3	169.3	171.3	169.3	169.3	169.3	163.2	159.2	151.1
70°	137.0	135.0	135.0	135.0	137.0	133.0	135.0	135.0	131.0	124.9	116.9
72.5°	104.8	104.8	104.8	104.8	104.8	104.8	102.8	102.8	98.7	92.7	88.7
75°	76.6	76.6	78.6	78.6	76.6	76.6	76.6	74.6	72.5	68.5	64.5
77.5°	56.4	56.4	56.4	56.4	54.4	54.4	54.4	52.4	50.4	48.4	44.3
80°	40.3	40.3	40.3	38.3	40.3	38.3	38.3	38.3	34.3	32.2	30.2
82.5°	28.2	26.2	26.2	26.2	26.2	26.2	26.2	24.2	24.2	22.2	20.1
85°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	14.1	12.1	12.1
87.5°	8.1	10.1	10.1	10.1	10.1	10.1	10.1	8.1	8.1	8.1	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1660.3	1660.3	1664.3	1658.3	1668.4	1662.3	1660.3	1670.4	1664.3	1662.3	1666.4
5°	1646.2	1648.2	1650.2	1646.2	1656.3	1650.2	1650.2	1660.3	1656.3	1654.3	1660.3
7.5°	1628.1	1630.1	1634.1	1632.1	1640.2	1636.1	1638.2	1648.2	1644.2	1644.2	1650.2
10°	1605.9	1609.9	1614.0	1614.0	1624.0	1620.0	1620.0	1632.1	1628.1	1630.1	1638.2
12.5°	1579.7	1585.8	1591.8	1593.8	1603.9	1597.9	1599.9	1614.0	1612.0	1614.0	1622.0
15°	1551.5	1559.6	1565.6	1565.6	1577.7	1571.7	1577.7	1591.8	1587.8	1595.8	1605.9
17.5°	1519.3	1527.3	1535.4	1537.4	1549.5	1545.5	1553.5	1567.6	1567.6	1571.7	1583.7
20°	1489.0	1499.1	1503.2	1509.2	1521.3	1519.3	1523.3	1539.4	1539.4	1545.5	1557.6
22.5°	1448.7	1458.8	1466.9	1472.9	1483.0	1483.0	1489.0	1503.2	1503.2	1507.2	1519.3
25°	1404.4	1416.5	1422.6	1428.6	1438.7	1436.7	1442.7	1454.8	1456.8	1460.8	1472.9
27.5°	1348.0	1358.1	1366.1	1370.2	1384.3	1376.2	1382.3	1396.4	1394.3	1398.4	1408.4
30°	1277.5	1287.6	1295.6	1295.6	1307.7	1307.7	1313.7	1319.8	1319.8	1323.8	1331.9
32.5°	1194.9	1207.0	1207.0	1213.0	1221.1	1213.0	1221.1	1229.1	1225.1	1231.1	1237.2
35°	1100.2	1106.2	1108.2	1108.2	1114.3	1112.3	1110.2	1116.3	1112.3	1122.3	1128.4
37.5°	985.3	993.4	989.3	993.4	991.4	985.3	985.3	995.4	987.3	989.3	995.4
40°	874.5	874.5	872.5	862.4	864.4	858.4	856.4	858.4	850.3	848.3	856.4
42.5°	759.6	757.6	751.6	737.5	739.5	729.4	721.4	721.4	717.3	715.3	717.3
45°	656.9	650.8	640.8	624.6	620.6	612.5	596.4	592.4	586.3	586.3	588.4
47.5°	562.2	554.1	538.0	519.9	509.8	499.7	483.6	477.5	467.5	463.4	467.5
50°	483.6	469.5	449.3	423.1	413.1	401.0	384.9	374.8	364.7	360.7	358.7
52.5°	411.0	390.9	370.8	338.5	330.5	318.4	296.2	286.1	276.0	268.0	268.0
55°	348.6	330.5	302.2	272.0	259.9	247.8	225.7	211.6	201.5	197.5	193.4
57.5°	292.2	272.0	245.8	213.6	201.5	189.4	167.2	153.1	143.1	137.0	133.0
60°	245.8	223.7	197.5	169.3	155.2	143.1	120.9	106.8	96.7	90.7	86.6
62.5°	201.5	183.4	157.2	131.0	118.9	106.8	88.7	74.6	64.5	60.4	54.4
65°	169.3	151.1	126.9	104.8	94.7	82.6	66.5	54.4	46.3	40.3	36.3
67.5°	137.0	122.9	102.8	82.6	72.5	64.5	50.4	40.3	32.2	28.2	26.2
70°	108.8	94.7	78.6	62.5	56.4	48.4	38.3	28.2	24.2	20.1	18.1
72.5°	80.6	70.5	58.4	46.3	40.3	36.3	26.2	22.2	16.1	14.1	12.1
75°	58.4	50.4	42.3	32.2	28.2	26.2	20.1	14.1	12.1	10.1	8.1
77.5°	40.3	36.3	28.2	22.2	20.1	18.1	14.1	10.1	8.1	6.0	6.0
80°	26.2	22.2	18.1	14.1	14.1	12.1	8.1	6.0	6.0	4.0	4.0
82.5°	16.1	14.1	12.1	10.1	8.1	8.1	6.0	4.0	4.0	2.0	2.0
85°	10.1	8.1	6.0	6.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0
87.5°	4.0	4.0	4.0	2.0	2.0	2.0	2.0	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°	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1666.4	1666.4	1670.4	1664.3	1668.4	1668.4	1672.4	1664.3	1668.4	1670.4	1674.4
5°	1658.3	1660.3	1664.3	1662.3	1664.3	1664.3	1668.4	1658.3	1666.4	1666.4	1672.4
7.5°	1650.2	1650.2	1654.3	1652.3	1656.3	1658.3	1662.3	1654.3	1662.3	1662.3	1668.4
10°	1640.2	1640.2	1646.2	1644.2	1650.2	1652.3	1658.3	1650.2	1658.3	1660.3	1666.4
12.5°	1626.1	1628.1	1634.1	1634.1	1640.2	1644.2	1650.2	1646.2	1656.3	1658.3	1666.4
15°	1609.9	1614.0	1622.0	1620.0	1626.1	1632.1	1640.2	1634.1	1648.2	1652.3	1660.3
17.5°	1589.8	1593.8	1599.9	1599.9	1605.9	1609.9	1620.0	1616.0	1628.1	1630.1	1640.2
20°	1559.6	1565.6	1573.7	1571.7	1577.7	1581.7	1589.8	1585.8	1597.9	1601.9	1612.0
22.5°	1523.3	1527.3	1533.4	1533.4	1539.4	1543.4	1551.5	1545.5	1557.6	1559.6	1567.6
25°	1474.9	1479.0	1483.0	1485.0	1491.1	1493.1	1497.1	1493.1	1503.2	1505.2	1515.2
27.5°	1412.5	1414.5	1420.5	1420.5	1424.6	1426.6	1432.6	1424.6	1438.7	1438.7	1444.7
30°	1337.9	1335.9	1344.0	1339.9	1344.0	1344.0	1350.0	1346.0	1356.1	1352.0	1358.1
32.5°	1239.2	1243.2	1243.2	1239.2	1247.3	1245.2	1245.2	1241.2	1247.3	1249.3	1253.3
35°	1124.3	1130.4	1130.4	1132.4	1134.4	1128.4	1130.4	1118.3	1128.4	1130.4	1132.4
37.5°	999.4	993.4	997.4	991.4	1001.4	989.3	989.3	981.3	989.3	989.3	991.4
40°	856.4	854.3	858.4	854.3	852.3	850.3	846.3	840.2	848.3	844.3	850.3
42.5°	721.4	719.3	719.3	715.3	713.3	713.3	709.3	705.2	703.2	703.2	713.3
45°	582.3	586.3	582.3	580.3	584.3	580.3	582.3	574.3	578.3	574.3	578.3
47.5°	465.5	467.5	463.4	459.4	465.5	459.4	459.4	453.4	461.4	461.4	457.4
50°	360.7	358.7	354.6	358.7	356.6	356.6	356.6	350.6	354.6	348.6	352.6
52.5°	266.0	264.0	264.0	261.9	264.0	261.9	261.9	259.9	259.9	257.9	259.9
55°	193.4	191.4	187.4	187.4	187.4	189.4	187.4	185.4	185.4	183.4	185.4
57.5°	131.0	126.9	126.9	126.9	126.9	124.9	124.9	122.9	124.9	122.9	124.9
60°	84.6	84.6	80.6	80.6	80.6	80.6	80.6	78.6	80.6	80.6	80.6
62.5°	52.4	52.4	50.4	48.4	50.4	48.4	48.4	48.4	50.4	48.4	50.4
65°	34.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
67.5°	24.2	22.2	22.2	22.2	22.2	22.2	22.2	20.1	22.2	22.2	22.2
70°	16.1	16.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	8.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
77.5°	6.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P252273

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1668.4	1670.4	1666.4	1668.4	1664.3	1668.4	1670.4	1674.4
5°	1664.3	1666.4	1662.3	1666.4	1662.3	1666.4	1668.4	1672.4
7.5°	1660.3	1664.3	1660.3	1664.3	1660.3	1664.3	1666.4	1670.4
10°	1660.3	1666.4	1662.3	1668.4	1662.3	1666.4	1670.4	1672.4
12.5°	1660.3	1666.4	1664.3	1668.4	1666.4	1670.4	1674.4	1678.5
15°	1656.3	1662.3	1658.3	1664.3	1662.3	1664.3	1672.4	1672.4
17.5°	1634.1	1640.2	1640.2	1644.2	1644.2	1650.2	1654.3	1658.3
20°	1605.9	1612.0	1609.9	1616.0	1616.0	1622.0	1626.1	1630.1
22.5°	1563.6	1571.7	1569.6	1575.7	1573.7	1577.7	1585.8	1583.7
25°	1509.2	1519.3	1517.3	1521.3	1519.3	1519.3	1523.3	1525.3
27.5°	1442.7	1448.7	1446.7	1450.8	1446.7	1450.8	1454.8	1456.8
30°	1356.1	1360.1	1358.1	1360.1	1358.1	1362.1	1364.1	1368.1
32.5°	1251.3	1257.3	1251.3	1255.3	1253.3	1253.3	1261.4	1257.3
35°	1126.4	1128.4	1130.4	1130.4	1126.4	1128.4	1132.4	1132.4
37.5°	987.3	997.4	985.3	991.4	989.3	989.3	989.3	995.4
40°	842.2	844.3	840.2	840.2	840.2	838.2	846.3	844.3
42.5°	705.2	707.2	705.2	699.2	701.2	701.2	707.2	699.2
45°	572.2	576.3	574.3	574.3	570.2	570.2	572.2	568.2
47.5°	453.4	457.4	451.3	453.4	449.3	453.4	451.3	455.4
50°	344.6	348.6	346.6	348.6	348.6	344.6	350.6	342.5
52.5°	257.9	259.9	257.9	255.9	253.9	253.9	257.9	255.9
55°	183.4	181.3	181.3	181.3	183.4	183.4	181.3	179.3
57.5°	122.9	122.9	120.9	120.9	122.9	118.9	120.9	118.9
60°	78.6	78.6	78.6	78.6	76.6	78.6	78.6	78.6
62.5°	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
65°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
67.5°	20.1	22.2	22.2	22.2	20.1	20.1	20.1	20.1
70°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0
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)