

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: P252272

Luminaire Tested: **LD6B30D010 EU6B30508030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252272
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 EU6B30508030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2731.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

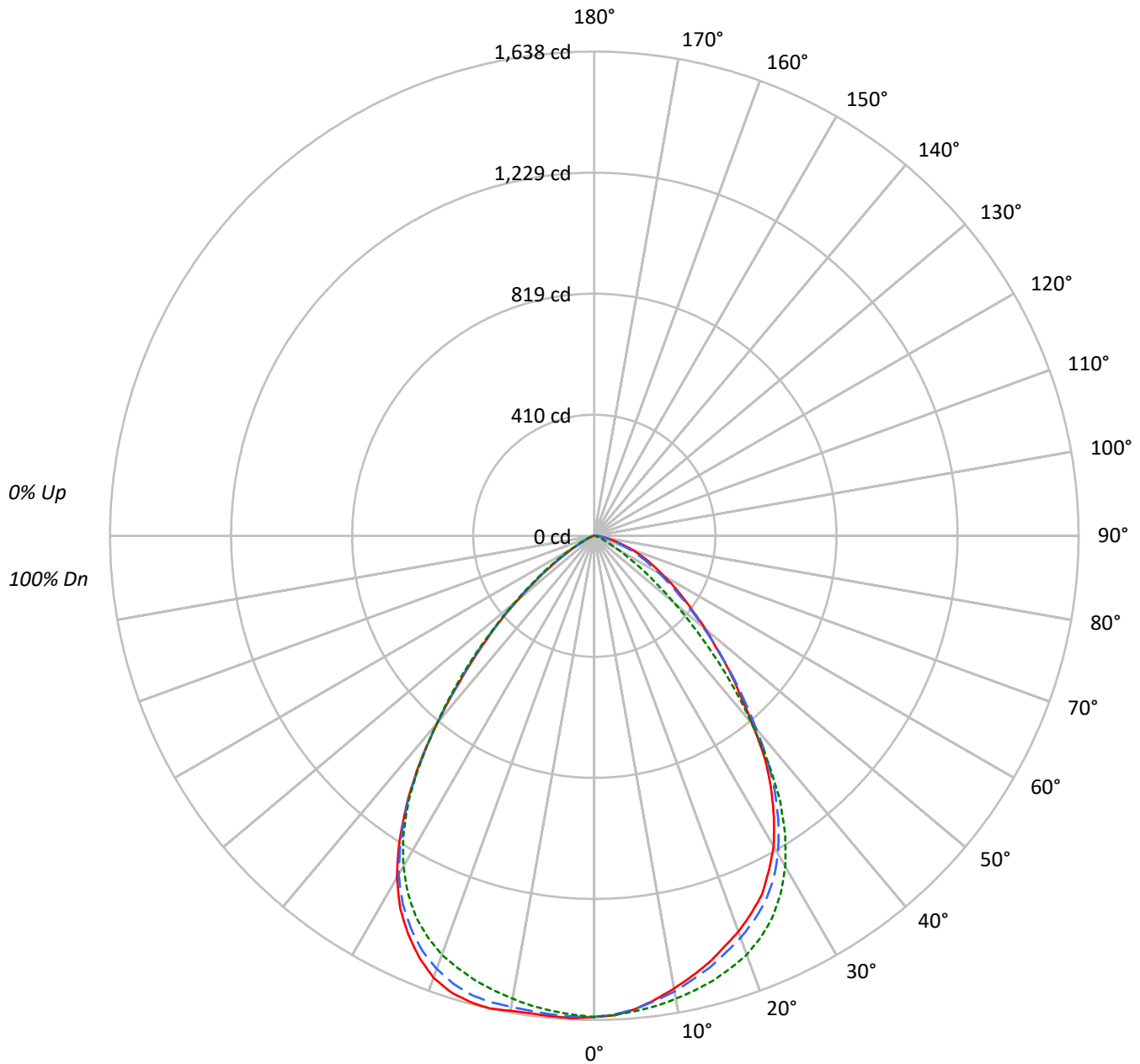
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	106199	106199	106199
5°	105190	105707	106866
10°	103021	105366	108102
15°	101050	105170	110215
20°	98955	104690	110425
25°	96518	102600	107135
30°	91379	97308	100563
35°	82989	87218	87999
40°	70824	70492	70159
45°	59492	52784	51151
50°	49682	35717	33920
55°	41812	21918	19905
60°	35400	11548	10008
65°	30658	6067	4863
70°	25503	3758	2632
75°	18830	2470	1487
80°	14765	1465	751
85°	11752	1497	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	5.6
10°-20°	439.3	16.1
20°-30°	648.7	23.8
30°-40°	668.5	24.5
40°-50°	461.7	16.9
50°-60°	227.6	8.3
60°-70°	92.2	3.4
70°-80°	32.9	1.2
80°-90°	6.8	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°	1241.3	45.5
0°-40°	1909.8	69.9
0°-60°	2599.1	95.2
0°-90°	2731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2731.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1628	1628	1628	1628	1628	
5°	1606	1606	1614	1626	1632	152
15°	1496	1512	1557	1608	1632	421
25°	1341	1366	1425	1467	1488	613
35°	1042	1068	1095	1101	1105	646
45°	645	649	572	564	554	498
55°	368	354	193	181	175	332
65°	199	179	39	32	32	197
75°	75	63	10	6	6	84
85°	16	12	2	0	0	19
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°	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8
2.5°	1623.9	1618.0	1621.9	1614.1	1623.9	1614.1	1616.0	1618.0	1616.0	1618.0	1620.0
5°	1606.2	1600.3	1606.2	1596.4	1606.2	1600.3	1600.3	1602.3	1602.3	1604.3	1606.2
7.5°	1582.6	1576.7	1582.6	1572.8	1584.6	1578.7	1578.7	1582.6	1580.7	1582.6	1586.6
10°	1555.1	1547.2	1553.1	1547.2	1559.0	1551.2	1555.1	1555.1	1555.1	1561.0	1564.9
12.5°	1525.6	1517.7	1525.6	1515.8	1527.6	1521.7	1523.6	1529.5	1531.5	1535.4	1537.4
15°	1496.1	1486.3	1490.2	1484.3	1496.1	1490.2	1492.2	1500.1	1500.1	1506.0	1511.9
17.5°	1458.8	1450.9	1458.8	1450.9	1460.7	1456.8	1460.7	1466.6	1466.6	1472.5	1478.4
20°	1425.3	1417.5	1423.4	1417.5	1429.3	1423.4	1425.3	1433.2	1435.2	1441.1	1447.0
22.5°	1384.1	1378.2	1382.1	1376.2	1388.0	1384.1	1386.0	1393.9	1395.9	1399.8	1409.6
25°	1340.8	1329.0	1334.9	1331.0	1342.8	1336.9	1340.8	1348.7	1352.6	1358.5	1366.4
27.5°	1277.9	1272.0	1275.9	1275.9	1285.8	1279.9	1281.8	1289.7	1295.6	1301.5	1311.3
30°	1213.0	1203.2	1207.1	1209.1	1217.0	1213.0	1217.0	1224.8	1226.8	1234.6	1242.5
32.5°	1130.4	1126.5	1134.4	1130.4	1134.4	1134.4	1136.3	1142.2	1146.2	1150.1	1159.9
35°	1042.0	1034.1	1042.0	1038.0	1047.9	1042.0	1047.9	1053.8	1053.8	1061.6	1067.5
37.5°	945.6	935.8	939.7	939.7	943.7	941.7	941.7	951.5	953.5	959.4	965.3
40°	831.6	827.7	835.5	833.6	835.5	835.5	837.5	843.4	847.3	849.3	851.3
42.5°	729.4	731.4	733.3	733.3	733.3	733.3	733.3	741.2	739.2	745.1	747.1
45°	644.8	637.0	640.9	638.9	644.8	638.9	644.8	650.7	646.8	652.7	648.8
47.5°	558.3	558.3	558.3	556.4	560.3	558.3	562.3	564.2	564.2	564.2	562.3
50°	489.5	483.6	485.6	485.6	487.6	485.6	489.5	491.5	491.5	487.6	479.7
52.5°	422.7	420.7	420.7	424.7	424.7	422.7	422.7	422.7	422.7	416.8	412.9
55°	367.6	363.7	365.7	365.7	365.7	365.7	367.6	365.7	365.7	359.8	353.9
57.5°	318.5	314.6	314.6	314.6	316.5	314.6	314.6	314.6	312.6	306.7	298.8
60°	271.3	269.3	271.3	271.3	273.3	271.3	271.3	271.3	267.4	261.5	253.6
62.5°	232.0	232.0	232.0	234.0	234.0	232.0	232.0	230.0	228.1	220.2	212.3
65°	198.6	196.6	198.6	198.6	200.5	200.5	198.6	196.6	194.6	186.8	178.9
67.5°	165.1	163.2	165.1	165.1	167.1	165.1	165.1	165.1	159.2	155.3	147.4
70°	133.7	131.7	131.7	131.7	133.7	129.8	131.7	131.7	127.8	121.9	114.0
72.5°	102.2	102.2	102.2	102.2	102.2	102.2	100.3	100.3	96.3	90.4	86.5
75°	74.7	74.7	76.7	76.7	74.7	74.7	74.7	72.7	70.8	66.8	62.9
77.5°	55.0	55.0	55.0	55.0	53.1	53.1	53.1	51.1	49.1	47.2	43.3
80°	39.3	39.3	39.3	37.4	39.3	37.4	37.4	37.4	33.4	31.5	29.5
82.5°	27.5	25.6	25.6	25.6	25.6	25.6	25.6	23.6	23.6	21.6	19.7
85°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	13.8	11.8	11.8
87.5°	7.9	9.8	9.8	9.8	9.8	9.8	9.8	7.9	7.9	7.9	5.9
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°	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8
2.5°	1620.0	1620.0	1623.9	1618.0	1627.8	1621.9	1620.0	1629.8	1623.9	1621.9	1625.9
5°	1606.2	1608.2	1610.2	1606.2	1616.0	1610.2	1610.2	1620.0	1616.0	1614.1	1620.0
7.5°	1588.5	1590.5	1594.4	1592.5	1600.3	1596.4	1598.4	1608.2	1604.3	1604.3	1610.2
10°	1566.9	1570.8	1574.8	1574.8	1584.6	1580.7	1580.7	1592.5	1588.5	1590.5	1598.4
12.5°	1541.3	1547.2	1553.1	1555.1	1564.9	1559.0	1561.0	1574.8	1572.8	1574.8	1582.6
15°	1513.8	1521.7	1527.6	1527.6	1539.4	1533.5	1539.4	1553.1	1549.2	1557.1	1566.9
17.5°	1482.4	1490.2	1498.1	1500.1	1511.9	1507.9	1515.8	1529.5	1529.5	1533.5	1545.3
20°	1452.9	1462.7	1466.6	1472.5	1484.3	1482.4	1486.3	1502.0	1502.0	1507.9	1519.7
22.5°	1413.6	1423.4	1431.2	1437.1	1447.0	1447.0	1452.9	1466.6	1466.6	1470.6	1482.4
25°	1370.3	1382.1	1388.0	1393.9	1403.7	1401.8	1407.7	1419.4	1421.4	1425.3	1437.1
27.5°	1315.3	1325.1	1332.9	1336.9	1350.6	1342.8	1348.7	1362.4	1360.5	1364.4	1374.2
30°	1246.4	1256.3	1264.1	1264.1	1275.9	1275.9	1281.8	1287.7	1287.7	1291.7	1299.5
32.5°	1165.8	1177.6	1177.6	1183.5	1191.4	1183.5	1191.4	1199.3	1195.3	1201.2	1207.1
35°	1073.4	1079.3	1081.3	1081.3	1087.2	1085.2	1083.3	1089.2	1085.2	1095.1	1101.0
37.5°	961.4	969.2	965.3	969.2	967.3	961.4	961.4	971.2	963.3	965.3	971.2
40°	853.2	853.2	851.3	841.4	843.4	837.5	835.5	837.5	829.6	827.7	835.5
42.5°	741.2	739.2	733.3	719.6	721.5	711.7	703.8	703.8	699.9	697.9	699.9
45°	640.9	635.0	625.2	609.5	605.5	597.7	581.9	578.0	572.1	572.1	574.1
47.5°	548.5	540.6	524.9	507.2	497.4	487.6	471.8	465.9	456.1	452.2	456.1
50°	471.8	458.1	438.4	412.9	403.0	391.2	375.5	365.7	355.8	351.9	349.9
52.5°	401.1	381.4	361.7	330.3	322.4	310.6	289.0	279.2	269.3	261.5	261.5
55°	340.1	322.4	294.9	265.4	253.6	241.8	220.2	206.4	196.6	192.7	188.7
57.5°	285.1	265.4	239.9	208.4	196.6	184.8	163.2	149.4	139.6	133.7	129.8
60°	239.9	218.2	192.7	165.1	151.4	139.6	118.0	104.2	94.4	88.5	84.5
62.5°	196.6	178.9	153.3	127.8	116.0	104.2	86.5	72.7	62.9	59.0	53.1
65°	165.1	147.4	123.9	102.2	92.4	80.6	64.9	53.1	45.2	39.3	35.4
67.5°	133.7	119.9	100.3	80.6	70.8	62.9	49.1	39.3	31.5	27.5	25.6
70°	106.2	92.4	76.7	60.9	55.0	47.2	37.4	27.5	23.6	19.7	17.7
72.5°	78.6	68.8	57.0	45.2	39.3	35.4	25.6	21.6	15.7	13.8	11.8
75°	57.0	49.1	41.3	31.5	27.5	25.6	19.7	13.8	11.8	9.8	7.9
77.5°	39.3	35.4	27.5	21.6	19.7	17.7	13.8	9.8	7.9	5.9	5.9
80°	25.6	21.6	17.7	13.8	13.8	11.8	7.9	5.9	5.9	3.9	3.9
82.5°	15.7	13.8	11.8	9.8	7.9	7.9	5.9	3.9	3.9	2.0	2.0
85°	9.8	7.9	5.9	5.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0
87.5°	3.9	3.9	3.9	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°	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8
2.5°	1625.9	1625.9	1629.8	1623.9	1627.8	1627.8	1631.8	1623.9	1627.8	1629.8	1633.7
5°	1618.0	1620.0	1623.9	1621.9	1623.9	1623.9	1627.8	1618.0	1625.9	1625.9	1631.8
7.5°	1610.2	1610.2	1614.1	1612.1	1616.0	1618.0	1621.9	1614.1	1621.9	1621.9	1627.8
10°	1600.3	1600.3	1606.2	1604.3	1610.2	1612.1	1618.0	1610.2	1618.0	1620.0	1625.9
12.5°	1586.6	1588.5	1594.4	1594.4	1600.3	1604.3	1610.2	1606.2	1616.0	1618.0	1625.9
15°	1570.8	1574.8	1582.6	1580.7	1586.6	1592.5	1600.3	1594.4	1608.2	1612.1	1620.0
17.5°	1551.2	1555.1	1561.0	1561.0	1566.9	1570.8	1580.7	1576.7	1588.5	1590.5	1600.3
20°	1521.7	1527.6	1535.4	1533.5	1539.4	1543.3	1551.2	1547.2	1559.0	1563.0	1572.8
22.5°	1486.3	1490.2	1496.1	1496.1	1502.0	1506.0	1513.8	1507.9	1519.7	1521.7	1529.5
25°	1439.1	1443.0	1447.0	1448.9	1454.8	1456.8	1460.7	1456.8	1466.6	1468.6	1478.4
27.5°	1378.2	1380.1	1386.0	1386.0	1390.0	1391.9	1397.8	1390.0	1403.7	1403.7	1409.6
30°	1305.4	1303.5	1311.3	1307.4	1311.3	1311.3	1317.2	1313.3	1323.1	1319.2	1325.1
32.5°	1209.1	1213.0	1213.0	1209.1	1217.0	1215.0	1215.0	1211.1	1217.0	1218.9	1222.8
35°	1097.0	1102.9	1102.9	1104.9	1106.9	1101.0	1102.9	1091.1	1101.0	1102.9	1104.9
37.5°	975.1	969.2	973.2	967.3	977.1	965.3	965.3	957.4	965.3	965.3	967.3
40°	835.5	833.6	837.5	833.6	831.6	829.6	825.7	819.8	827.7	823.8	829.6
42.5°	703.8	701.9	701.9	697.9	696.0	696.0	692.0	688.1	686.1	686.1	696.0
45°	568.2	572.1	568.2	566.2	570.1	566.2	568.2	560.3	564.2	560.3	564.2
47.5°	454.1	456.1	452.2	448.2	454.1	448.2	448.2	442.3	450.2	450.2	446.3
50°	351.9	349.9	346.0	349.9	348.0	348.0	348.0	342.1	346.0	340.1	344.0
52.5°	259.5	257.5	257.5	255.6	257.5	255.6	255.6	253.6	253.6	251.6	253.6
55°	188.7	186.8	182.8	182.8	182.8	184.8	182.8	180.9	180.9	178.9	180.9
57.5°	127.8	123.9	123.9	123.9	123.9	121.9	121.9	119.9	121.9	119.9	121.9
60°	82.6	82.6	78.6	78.6	78.6	78.6	78.6	76.7	78.6	78.6	78.6
62.5°	51.1	51.1	49.1	47.2	49.1	47.2	47.2	47.2	49.1	47.2	49.1
65°	33.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
67.5°	23.6	21.6	21.6	21.6	21.6	21.6	21.6	19.7	21.6	21.6	21.6
70°	15.7	15.7	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
72.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
75°	7.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
77.5°	5.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
80°	3.9	3.9	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: P252272

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8
2.5°	1627.8	1629.8	1625.9	1627.8	1623.9	1627.8	1629.8	1633.7
5°	1623.9	1625.9	1621.9	1625.9	1621.9	1625.9	1627.8	1631.8
7.5°	1620.0	1623.9	1620.0	1623.9	1620.0	1623.9	1625.9	1629.8
10°	1620.0	1625.9	1621.9	1627.8	1621.9	1625.9	1629.8	1631.8
12.5°	1620.0	1625.9	1623.9	1627.8	1625.9	1629.8	1633.7	1637.7
15°	1616.0	1621.9	1618.0	1623.9	1621.9	1623.9	1631.8	1631.8
17.5°	1594.4	1600.3	1600.3	1604.3	1604.3	1610.2	1614.1	1618.0
20°	1566.9	1572.8	1570.8	1576.7	1576.7	1582.6	1586.6	1590.5
22.5°	1525.6	1533.5	1531.5	1537.4	1535.4	1539.4	1547.2	1545.3
25°	1472.5	1482.4	1480.4	1484.3	1482.4	1482.4	1486.3	1488.3
27.5°	1407.7	1413.6	1411.6	1415.5	1411.6	1415.5	1419.4	1421.4
30°	1323.1	1327.0	1325.1	1327.0	1325.1	1329.0	1331.0	1334.9
32.5°	1220.9	1226.8	1220.9	1224.8	1222.8	1222.8	1230.7	1226.8
35°	1099.0	1101.0	1102.9	1102.9	1099.0	1101.0	1104.9	1104.9
37.5°	963.3	973.2	961.4	967.3	965.3	965.3	965.3	971.2
40°	821.8	823.8	819.8	819.8	819.8	817.9	825.7	823.8
42.5°	688.1	690.1	688.1	682.2	684.2	684.2	690.1	682.2
45°	558.3	562.3	560.3	560.3	556.4	556.4	558.3	554.4
47.5°	442.3	446.3	440.4	442.3	438.4	442.3	440.4	444.3
50°	336.2	340.1	338.2	340.1	340.1	336.2	342.1	334.2
52.5°	251.6	253.6	251.6	249.7	247.7	247.7	251.6	249.7
55°	178.9	176.9	176.9	176.9	178.9	178.9	176.9	175.0
57.5°	119.9	119.9	118.0	118.0	119.9	116.0	118.0	116.0
60°	76.7	76.7	76.7	76.7	74.7	76.7	76.7	76.7
62.5°	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
65°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
67.5°	19.7	21.6	21.6	21.6	19.7	19.7	19.7	19.7
70°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
72.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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)