

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: P252172

Luminaire Tested: **LD6B30D010 EU6B30509024 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509024 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2718.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

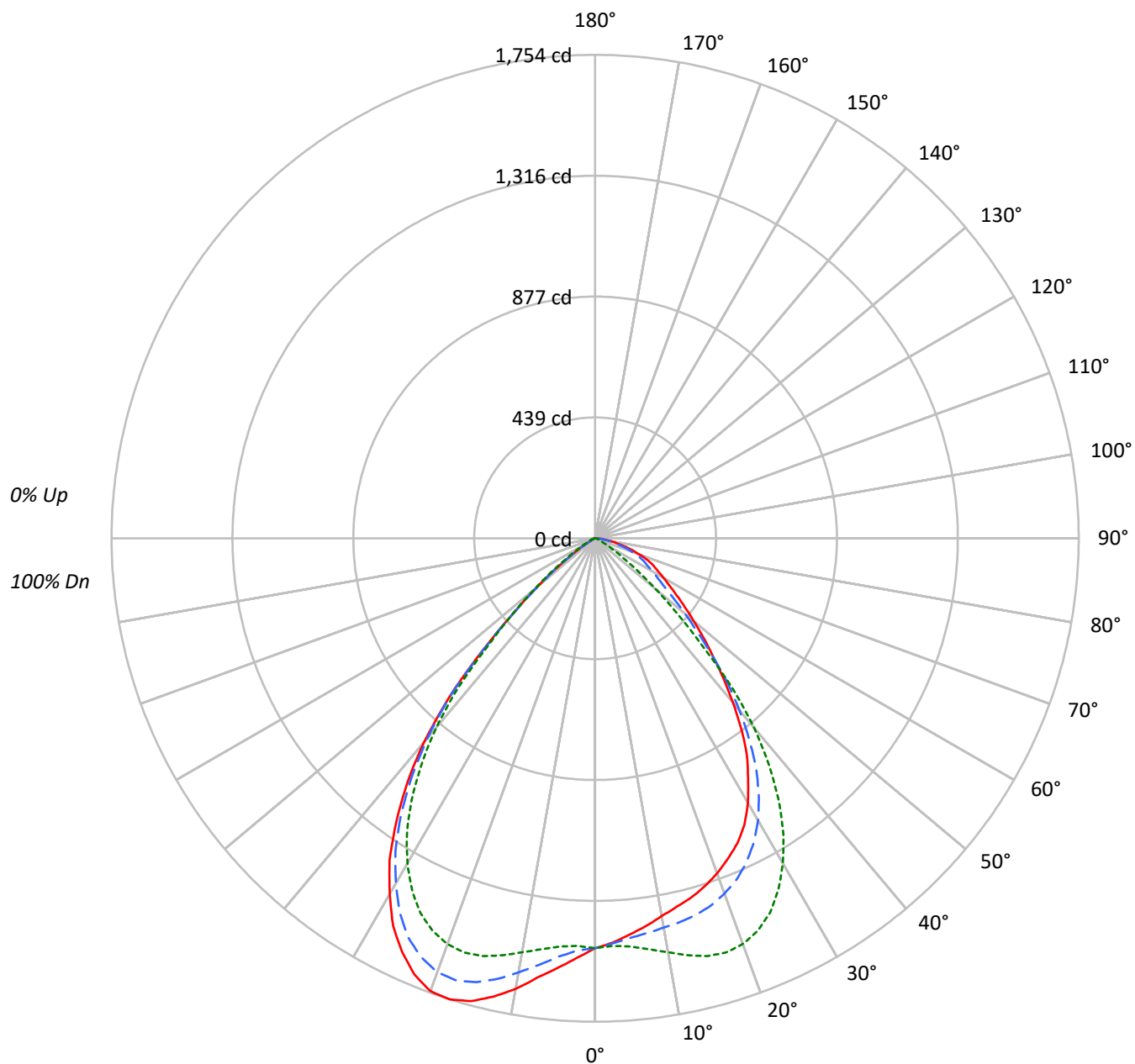
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252172

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBSW1LI

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	97013	97013	97013
5°	94495	97383	102498
10°	92196	101047	109997
15°	91121	106001	117429
20°	89812	108765	121394
25°	87901	107963	119214
30°	83530	102597	112232
35°	76426	92499	100200
40°	66106	76394	82202
45°	55746	50099	53772
50°	47328	28998	27272
55°	41073	13911	10510
60°	37096	6498	2597
65°	35984	3736	880
70°	32275	2976	820
75°	26518	2143	353
80°	19762	1052	0
85°	16992	0	0



TEST NUMBER: P252172

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBSW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	5.3
10°-20°	437.7	16.1
20°-30°	668.8	24.6
30°-40°	699.5	25.7
40°-50°	453.8	16.7
50°-60°	180.2	6.6
60°-70°	85.5	3.1
70°-80°	40.6	1.5
80°-90°	8.3	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°	1250.1	46.0
0°-40°	1949.7	71.7
0°-60°	2583.6	95.1
0°-90°	2718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2718.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1487	1487	1487	1487	1487	
5°	1443	1456	1487	1524	1565	136
15°	1349	1414	1569	1668	1739	380
25°	1221	1298	1500	1601	1656	559
35°	960	1018	1161	1230	1258	593
45°	604	598	543	576	583	470
55°	361	307	122	95	92	327
65°	233	193	24	6	6	228
75°	105	85	8	3	1	113
85°	23	14	0	0	0	26
90°	0	0	0	0	0	



TEST NUMBER: P252172

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBSW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0
2.5°	1468.5	1471.3	1455.7	1451.4	1462.8	1467.1	1468.5	1464.2	1465.6	1471.3	1471.3
5°	1442.9	1445.7	1431.5	1427.3	1438.6	1441.5	1445.7	1444.3	1448.6	1457.1	1455.7
7.5°	1418.7	1423.0	1407.4	1401.7	1415.9	1423.0	1425.8	1425.8	1431.5	1442.9	1444.3
10°	1391.7	1397.4	1383.2	1380.3	1396.0	1403.1	1404.5	1407.4	1415.9	1431.5	1434.4
12.5°	1369.0	1374.7	1364.7	1360.4	1377.5	1384.6	1387.5	1393.1	1403.1	1423.0	1425.8
15°	1349.1	1353.3	1342.0	1339.1	1356.2	1364.7	1366.1	1374.7	1387.5	1410.2	1414.5
17.5°	1323.5	1326.3	1317.8	1315.0	1332.0	1340.5	1342.0	1351.9	1367.5	1390.3	1397.4
20°	1293.6	1296.5	1287.9	1285.1	1302.2	1312.1	1313.5	1322.1	1340.5	1364.7	1371.8
22.5°	1258.1	1263.8	1253.8	1251.0	1268.0	1276.6	1280.8	1287.9	1306.4	1330.6	1340.5
25°	1221.1	1221.1	1214.0	1212.6	1228.2	1238.2	1236.8	1246.7	1265.2	1289.4	1297.9
27.5°	1172.8	1171.4	1164.3	1162.8	1179.9	1188.4	1185.6	1195.5	1212.6	1236.8	1245.3
30°	1108.8	1111.7	1101.7	1098.9	1113.1	1127.3	1125.9	1135.8	1152.9	1175.6	1181.3
32.5°	1032.1	1034.9	1033.5	1029.2	1042.0	1049.1	1053.4	1060.5	1074.7	1098.9	1104.6
35°	959.6	955.3	949.6	949.6	962.4	973.8	969.5	978.0	992.3	1016.4	1017.8
37.5°	870.0	868.6	865.7	862.9	877.1	880.0	881.4	887.1	899.9	919.8	916.9
40°	776.2	777.6	776.2	770.5	779.0	790.4	789.0	791.8	803.2	817.4	813.1
42.5°	688.0	688.0	688.0	682.4	692.3	698.0	700.8	699.4	702.3	715.0	709.4
45°	604.2	605.6	604.2	602.7	604.2	607.0	604.2	602.7	602.7	607.0	598.5
47.5°	531.7	531.7	527.4	523.1	527.4	528.8	524.6	520.3	518.9	517.5	503.2
50°	466.3	464.9	463.4	456.3	460.6	462.0	456.3	453.5	447.8	440.7	423.6
52.5°	409.4	408.0	406.6	399.5	402.3	403.7	398.0	392.4	385.2	379.6	358.2
55°	361.1	359.7	359.7	355.4	352.5	355.4	349.7	345.4	335.5	328.4	307.1
57.5°	319.9	319.9	317.0	312.7	314.2	314.2	308.5	302.8	294.3	285.7	268.7
60°	284.3	284.3	284.3	280.0	280.0	280.0	277.2	271.5	264.4	255.9	238.8
62.5°	255.9	255.9	254.5	250.2	251.6	251.6	248.8	243.1	236.0	230.3	213.2
65°	233.1	233.1	233.1	228.9	228.9	230.3	227.5	221.8	216.1	209.0	193.3
67.5°	204.7	203.3	203.3	200.4	201.9	203.3	200.4	196.2	189.1	184.8	170.6
70°	169.2	170.6	172.0	167.7	169.2	169.2	167.7	163.5	159.2	155.0	142.2
72.5°	137.9	137.9	136.5	135.0	135.0	136.5	133.6	129.4	126.5	123.7	113.7
75°	105.2	103.8	105.2	102.4	102.4	102.4	99.5	98.1	96.7	92.4	85.3
77.5°	76.8	75.3	75.3	72.5	73.9	73.9	72.5	69.7	66.8	65.4	59.7
80°	52.6	52.6	52.6	51.2	51.2	49.8	49.8	48.3	45.5	44.1	41.2
82.5°	35.5	35.5	35.5	34.1	34.1	34.1	32.7	31.3	29.9	28.4	25.6
85°	22.7	22.7	22.7	21.3	21.3	21.3	19.9	19.9	18.5	17.1	14.2
87.5°	12.8	12.8	12.8	11.4	11.4	11.4	11.4	11.4	10.0	8.5	7.1
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: P252172

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0
2.5°	1481.3	1461.4	1474.2	1474.2	1469.9	1481.3	1488.4	1494.1	1492.6	1479.9	1478.4
5°	1469.9	1452.8	1467.1	1468.5	1464.2	1479.9	1489.8	1496.9	1498.3	1487.0	1488.4
7.5°	1461.4	1447.2	1465.6	1471.3	1469.9	1484.1	1495.5	1506.9	1512.5	1504.0	1505.4
10°	1457.1	1445.7	1465.6	1474.2	1475.6	1491.2	1508.3	1523.9	1531.0	1525.3	1529.6
12.5°	1451.4	1444.3	1467.1	1479.9	1485.5	1501.2	1522.5	1541.0	1552.4	1549.5	1558.0
15°	1445.7	1440.0	1467.1	1485.5	1492.6	1506.9	1531.0	1558.0	1570.8	1569.4	1580.8
17.5°	1431.5	1430.1	1458.5	1478.4	1488.4	1505.4	1528.2	1560.9	1573.7	1576.5	1590.7
20°	1408.8	1408.8	1440.0	1461.4	1472.7	1488.4	1516.8	1548.1	1563.7	1566.6	1582.2
22.5°	1377.5	1380.3	1410.2	1431.5	1448.6	1460.0	1489.8	1522.5	1536.7	1541.0	1558.0
25°	1336.3	1339.1	1367.5	1388.9	1407.4	1420.1	1448.6	1478.4	1495.5	1499.8	1512.5
27.5°	1282.3	1287.9	1315.0	1336.3	1351.9	1360.4	1390.3	1421.6	1434.4	1438.6	1451.4
30°	1219.7	1221.1	1248.1	1266.6	1282.3	1289.4	1315.0	1347.6	1357.6	1361.9	1380.3
32.5°	1142.9	1141.5	1167.1	1184.2	1197.0	1205.5	1232.5	1253.8	1263.8	1270.9	1280.8
35°	1050.5	1049.1	1067.6	1087.5	1097.5	1100.3	1127.3	1150.0	1155.7	1161.4	1174.2
37.5°	946.8	946.8	962.4	972.4	983.7	988.0	1000.8	1026.4	1036.3	1034.9	1044.9
40°	837.3	831.6	843.0	852.9	855.8	857.2	870.0	889.9	897.0	897.0	904.1
42.5°	722.2	713.6	715.0	720.7	723.6	713.6	722.2	735.0	730.7	736.4	737.8
45°	599.9	587.1	581.4	568.6	571.5	561.5	555.8	558.7	557.3	543.0	545.9
47.5°	500.4	477.6	467.7	449.2	445.0	433.6	426.5	413.7	402.3	402.3	395.2
50°	416.5	393.8	373.9	352.5	345.4	335.5	319.9	302.8	294.3	285.7	278.6
52.5°	349.7	325.5	301.4	278.6	268.7	255.9	234.6	217.5	201.9	193.3	184.8
55°	295.7	268.7	243.1	218.9	206.1	193.3	172.0	152.1	133.6	122.3	115.1
57.5°	254.5	228.9	201.9	176.3	164.9	150.7	127.9	106.6	89.6	76.8	69.7
60°	224.6	199.0	174.9	147.8	136.5	122.3	98.1	78.2	61.1	49.8	41.2
62.5°	199.0	176.3	150.7	126.5	115.1	100.9	78.2	58.3	42.6	31.3	24.2
65°	180.5	157.8	136.5	112.3	102.4	88.1	66.8	48.3	34.1	24.2	17.1
67.5°	159.2	139.3	118.0	98.1	88.1	76.8	56.9	41.2	28.4	19.9	14.2
70°	133.6	118.0	99.5	81.0	73.9	64.0	46.9	34.1	22.7	15.6	11.4
72.5°	106.6	93.8	79.6	65.4	59.7	49.8	38.4	27.0	17.1	11.4	8.5
75°	81.0	71.1	59.7	49.8	44.1	38.4	28.4	19.9	12.8	8.5	5.7
77.5°	55.4	51.2	42.6	34.1	31.3	27.0	18.5	12.8	8.5	5.7	2.8
80°	38.4	34.1	28.4	22.7	19.9	17.1	11.4	8.5	4.3	2.8	1.4
82.5°	24.2	19.9	17.1	14.2	12.8	10.0	7.1	4.3	2.8	1.4	1.4
85°	12.8	11.4	10.0	7.1	7.1	5.7	4.3	2.8	1.4	0.0	0.0
87.5°	7.1	5.7	4.3	2.8	2.8	1.4	1.4	1.4	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: P252172

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0
2.5°	1495.5	1495.5	1494.1	1511.1	1491.2	1511.1	1501.2	1511.1	1496.9	1495.5	1496.9
5°	1506.9	1511.1	1512.5	1528.2	1509.7	1533.9	1525.3	1533.9	1523.9	1526.8	1531.0
7.5°	1529.6	1536.7	1535.3	1555.2	1536.7	1563.7	1558.0	1570.8	1560.9	1563.7	1569.4
10°	1555.2	1563.7	1565.1	1585.0	1568.0	1600.7	1593.6	1607.8	1599.3	1603.5	1610.6
12.5°	1585.0	1595.0	1596.4	1619.2	1600.7	1634.8	1630.5	1644.8	1637.6	1641.9	1650.4
15°	1607.8	1622.0	1624.9	1647.6	1627.7	1663.2	1660.4	1678.9	1667.5	1674.6	1681.7
17.5°	1619.2	1632.0	1637.6	1659.0	1641.9	1677.5	1674.6	1690.2	1681.7	1688.8	1697.4
20°	1612.1	1627.7	1632.0	1653.3	1636.2	1671.8	1667.5	1683.1	1674.6	1680.3	1688.8
22.5°	1586.5	1602.1	1607.8	1627.7	1612.1	1644.8	1643.3	1657.5	1646.2	1653.3	1660.4
25°	1541.0	1558.0	1560.9	1579.4	1562.3	1596.4	1593.6	1609.2	1600.7	1605.0	1614.9
27.5°	1475.6	1495.5	1499.8	1515.4	1502.6	1531.0	1531.0	1543.8	1533.9	1533.9	1543.8
30°	1397.4	1417.3	1420.1	1432.9	1421.6	1447.2	1448.6	1461.4	1445.7	1454.3	1455.7
32.5°	1302.2	1315.0	1323.5	1334.9	1317.8	1350.5	1346.2	1356.2	1347.6	1347.6	1354.8
35°	1187.0	1202.6	1206.9	1221.1	1206.9	1232.5	1232.5	1238.2	1229.7	1229.7	1241.0
37.5°	1061.9	1073.3	1074.7	1088.9	1077.5	1098.9	1097.5	1101.7	1093.2	1098.9	1098.9
40°	915.5	924.0	926.9	934.0	932.5	948.2	946.8	949.6	945.3	946.8	949.6
42.5°	744.9	756.3	762.0	767.6	759.1	780.4	776.2	780.4	779.0	780.4	784.7
45°	548.7	557.3	561.5	562.9	560.1	572.9	582.8	574.3	575.7	572.9	578.6
47.5°	396.6	398.0	395.2	403.7	396.6	402.3	405.1	406.6	398.0	396.6	402.3
50°	271.5	278.6	268.7	272.9	271.5	277.2	274.4	275.8	267.3	271.5	268.7
52.5°	180.5	179.1	176.3	177.7	174.9	174.9	174.9	177.7	172.0	169.2	166.3
55°	109.5	106.6	100.9	99.5	99.5	100.9	98.1	95.2	95.2	93.8	93.8
57.5°	64.0	59.7	56.9	55.4	52.6	51.2	49.8	49.8	46.9	46.9	46.9
60°	35.5	31.3	28.4	25.6	25.6	24.2	22.7	21.3	21.3	21.3	19.9
62.5°	18.5	15.6	12.8	11.4	11.4	10.0	8.5	8.5	8.5	8.5	7.1
65°	12.8	10.0	8.5	7.1	7.1	5.7	5.7	5.7	5.7	5.7	5.7
67.5°	10.0	8.5	7.1	5.7	5.7	5.7	4.3	4.3	4.3	4.3	4.3
70°	8.5	5.7	5.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	5.7	5.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	4.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
80°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	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: P252172

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0
2.5°	1509.7	1508.3	1509.7	1512.5	1506.9	1523.9	1515.4	1523.9
5°	1542.4	1543.8	1545.2	1549.5	1542.4	1563.7	1552.4	1565.1
7.5°	1585.0	1586.5	1587.9	1592.2	1587.9	1609.2	1596.4	1607.8
10°	1629.1	1632.0	1632.0	1639.1	1634.8	1654.7	1646.2	1660.4
12.5°	1670.3	1673.2	1676.0	1680.3	1677.5	1698.8	1691.7	1703.0
15°	1703.0	1708.7	1710.1	1715.8	1713.0	1735.7	1727.2	1738.6
17.5°	1718.7	1724.4	1724.4	1731.5	1728.6	1752.8	1741.4	1754.2
20°	1710.1	1714.4	1715.8	1722.9	1720.1	1744.3	1732.9	1748.5
22.5°	1683.1	1684.6	1686.0	1693.1	1691.7	1713.0	1703.0	1713.0
25°	1633.4	1637.6	1636.2	1641.9	1641.9	1659.0	1647.6	1656.1
27.5°	1562.3	1566.6	1566.6	1573.7	1568.0	1585.0	1573.7	1586.5
30°	1475.6	1479.9	1477.0	1482.7	1477.0	1494.1	1485.5	1489.8
32.5°	1371.8	1371.8	1373.2	1374.7	1371.8	1387.5	1378.9	1387.5
35°	1248.1	1251.0	1252.4	1253.8	1251.0	1262.4	1252.4	1258.1
37.5°	1108.8	1115.9	1114.5	1115.9	1111.7	1125.9	1117.4	1120.2
40°	959.6	959.6	958.1	961.0	956.7	968.1	962.4	965.2
42.5°	786.1	790.4	784.7	791.8	780.4	796.1	790.4	786.1
45°	590.0	584.3	582.8	584.3	580.0	581.4	585.7	582.8
47.5°	402.3	402.3	399.5	395.2	400.9	402.3	396.6	396.6
50°	270.1	270.1	267.3	265.8	268.7	267.3	264.4	268.7
52.5°	172.0	166.3	166.3	169.2	166.3	163.5	167.7	164.9
55°	93.8	91.0	91.0	93.8	91.0	91.0	89.6	92.4
57.5°	45.5	46.9	45.5	45.5	45.5	45.5	44.1	45.5
60°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
62.5°	8.5	8.5	7.1	7.1	7.1	7.1	7.1	7.1
65°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
67.5°	4.3	4.3	4.3	4.3	4.3	5.7	4.3	4.3
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	4.3	4.3	5.7	5.7	5.7	5.7	5.7	5.7
75°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)