

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: P252295

Luminaire Tested: **LD6B40D010 EU6B30509727 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252295
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: LD6B40D010 EU6B30509727 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2758.0 lumens
Efficiency: N/A
Efficacy: 64.1 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

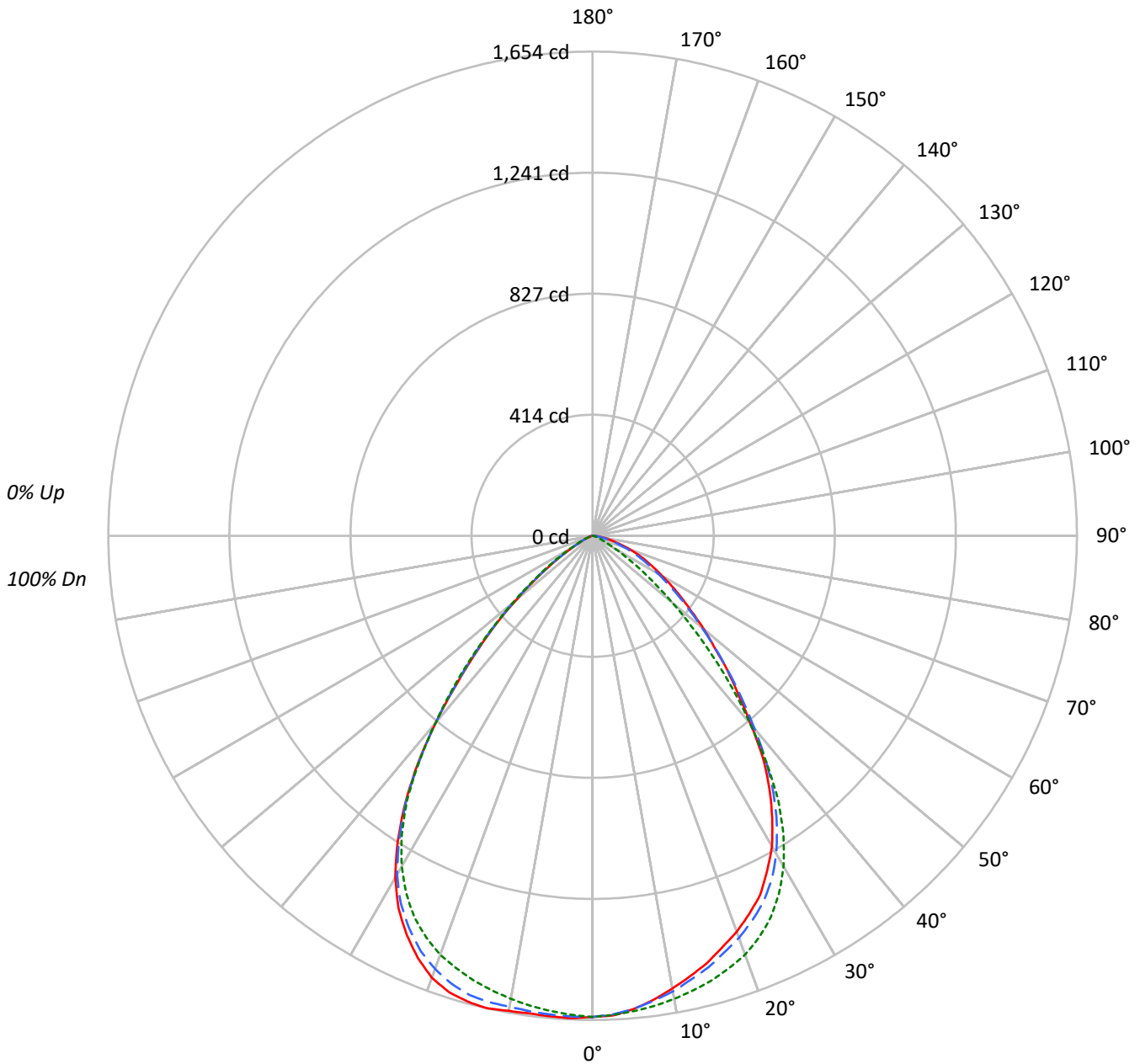
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252295

CATALOG NUMBER: LD6B40D010 EU6B30509727 6LBSW1H

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	107249	107249	107249
5°	106231	106748	107921
10°	104041	106406	109169
15°	102049	106210	111303
20°	99934	105724	111515
25°	97475	103615	108194
30°	92283	98265	101557
35°	83809	88078	88867
40°	71522	71190	70849
45°	60082	53310	51659
50°	50180	36072	34255
55°	42233	22134	20098
60°	35752	11652	10099
65°	30952	6129	4909
70°	25751	3796	2651
75°	19006	2495	1512
80°	14916	1503	751
85°	11902	1497	0



TEST NUMBER: P252295

CATALOG NUMBER: LD6B40D010 EU6B30509727 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	5.6
10°-20°	443.6	16.1
20°-30°	655.1	23.8
30°-40°	675.1	24.5
40°-50°	466.3	16.9
50°-60°	229.8	8.3
60°-70°	93.1	3.4
70°-80°	33.2	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°	1253.6	45.5
0°-40°	1928.7	69.9
0°-60°	2624.8	95.2
0°-90°	2758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2758.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1644	1644	1644	1644	1644	
5°	1622	1622	1630	1642	1648	153
15°	1511	1527	1572	1624	1648	425
25°	1354	1380	1439	1481	1503	619
35°	1052	1078	1106	1112	1116	652
45°	651	655	578	570	560	503
55°	371	357	195	183	177	335
65°	200	181	40	32	32	199
75°	75	64	10	6	6	85
85°	16	12	2	0	0	19
90°	0	0	0	0	0	



TEST NUMBER: P252295

CATALOG NUMBER: LD6B40D010 EU6B30509727 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9
2.5°	1640.0	1634.0	1638.0	1630.0	1640.0	1630.0	1632.0	1634.0	1632.0	1634.0	1636.0
5°	1622.1	1616.1	1622.1	1612.2	1622.1	1616.1	1616.1	1618.1	1618.1	1620.1	1622.1
7.5°	1598.3	1592.3	1598.3	1588.3	1600.3	1594.3	1594.3	1598.3	1596.3	1598.3	1602.2
10°	1570.5	1562.5	1568.5	1562.5	1574.4	1566.5	1570.5	1570.5	1570.5	1576.4	1580.4
12.5°	1540.7	1532.8	1540.7	1530.8	1542.7	1536.7	1538.7	1544.7	1546.7	1550.6	1552.6
15°	1510.9	1501.0	1505.0	1499.0	1510.9	1505.0	1506.9	1514.9	1514.9	1520.8	1526.8
17.5°	1473.2	1465.2	1473.2	1465.2	1475.2	1471.2	1475.2	1481.1	1481.1	1487.1	1493.0
20°	1439.4	1431.5	1437.5	1431.5	1443.4	1437.5	1439.4	1447.4	1449.4	1455.3	1461.3
22.5°	1397.7	1391.8	1395.8	1389.8	1401.7	1397.7	1399.7	1407.7	1409.7	1413.6	1423.6
25°	1354.1	1342.2	1348.1	1344.1	1356.1	1350.1	1354.1	1362.0	1366.0	1371.9	1379.9
27.5°	1290.5	1284.6	1288.5	1288.5	1298.5	1292.5	1294.5	1302.4	1308.4	1314.4	1324.3
30°	1225.0	1215.1	1219.1	1221.0	1229.0	1225.0	1229.0	1236.9	1238.9	1246.9	1254.8
32.5°	1141.6	1137.7	1145.6	1141.6	1145.6	1145.6	1147.6	1153.5	1157.5	1161.5	1171.4
35°	1052.3	1044.3	1052.3	1048.3	1058.2	1052.3	1058.2	1064.2	1064.2	1072.1	1078.1
37.5°	955.0	945.1	949.0	949.0	953.0	951.0	951.0	960.9	962.9	968.9	974.8
40°	839.8	835.9	843.8	841.8	843.8	843.8	845.8	851.8	855.7	857.7	859.7
42.5°	736.6	738.6	740.6	740.6	740.6	740.6	740.6	748.5	746.5	752.5	754.5
45°	651.2	643.3	647.3	645.3	651.2	645.3	651.2	657.2	653.2	659.2	655.2
47.5°	563.9	563.9	563.9	561.9	565.8	563.9	567.8	569.8	569.8	569.8	567.8
50°	494.4	488.4	490.4	490.4	492.4	490.4	494.4	496.4	496.4	492.4	484.4
52.5°	426.9	424.9	424.9	428.9	428.9	426.9	426.9	426.9	426.9	420.9	416.9
55°	371.3	367.3	369.3	369.3	369.3	369.3	371.3	369.3	369.3	363.3	357.4
57.5°	321.6	317.7	317.7	317.7	319.7	317.7	317.7	317.7	315.7	309.7	301.8
60°	274.0	272.0	274.0	274.0	276.0	274.0	274.0	274.0	270.0	264.1	256.1
62.5°	234.3	234.3	234.3	236.3	236.3	234.3	234.3	232.3	230.3	222.4	214.4
65°	200.5	198.5	200.5	200.5	202.5	202.5	200.5	198.5	196.6	188.6	180.7
67.5°	166.8	164.8	166.8	166.8	168.8	166.8	166.8	166.8	160.8	156.8	148.9
70°	135.0	133.0	133.0	133.0	135.0	131.0	133.0	133.0	129.1	123.1	115.2
72.5°	103.2	103.2	103.2	103.2	103.2	103.2	101.3	101.3	97.3	91.3	87.4
75°	75.4	75.4	77.4	77.4	75.4	75.4	75.4	73.5	71.5	67.5	63.5
77.5°	55.6	55.6	55.6	55.6	53.6	53.6	53.6	51.6	49.6	47.7	43.7
80°	39.7	39.7	39.7	37.7	39.7	37.7	37.7	37.7	33.8	31.8	29.8
82.5°	27.8	25.8	25.8	25.8	25.8	25.8	25.8	23.8	23.8	21.8	19.9
85°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	13.9	11.9	11.9
87.5°	7.9	9.9	9.9	9.9	9.9	9.9	9.9	7.9	7.9	7.9	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: P252295

CATALOG NUMBER: LD6B40D010 EU6B30509727 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9
2.5°	1636.0	1636.0	1640.0	1634.0	1643.9	1638.0	1636.0	1645.9	1640.0	1638.0	1642.0
5°	1622.1	1624.1	1626.1	1622.1	1632.0	1626.1	1626.1	1636.0	1632.0	1630.0	1636.0
7.5°	1604.2	1606.2	1610.2	1608.2	1616.1	1612.2	1614.2	1624.1	1620.1	1620.1	1626.1
10°	1582.4	1586.4	1590.3	1590.3	1600.3	1596.3	1596.3	1608.2	1604.2	1606.2	1614.2
12.5°	1556.6	1562.5	1568.5	1570.5	1580.4	1574.4	1576.4	1590.3	1588.3	1590.3	1598.3
15°	1528.8	1536.7	1542.7	1542.7	1554.6	1548.6	1554.6	1568.5	1564.5	1572.5	1582.4
17.5°	1497.0	1505.0	1512.9	1514.9	1526.8	1522.8	1530.8	1544.7	1544.7	1548.6	1560.5
20°	1467.2	1477.2	1481.1	1487.1	1499.0	1497.0	1501.0	1516.9	1516.9	1522.8	1534.7
22.5°	1427.5	1437.5	1445.4	1451.4	1461.3	1461.3	1467.2	1481.1	1481.1	1485.1	1497.0
25°	1383.8	1395.8	1401.7	1407.7	1417.6	1415.6	1421.6	1433.5	1435.5	1439.4	1451.4
27.5°	1328.3	1338.2	1346.1	1350.1	1364.0	1356.1	1362.0	1375.9	1373.9	1377.9	1387.8
30°	1258.8	1268.7	1276.6	1276.6	1288.5	1288.5	1294.5	1300.5	1300.5	1304.4	1312.4
32.5°	1177.4	1189.3	1189.3	1195.2	1203.2	1195.2	1203.2	1211.1	1207.1	1213.1	1219.1
35°	1084.0	1090.0	1092.0	1092.0	1097.9	1096.0	1094.0	1099.9	1096.0	1105.9	1111.8
37.5°	970.9	978.8	974.8	978.8	976.8	970.9	970.9	980.8	972.9	974.8	980.8
40°	861.7	861.7	859.7	849.8	851.8	845.8	843.8	845.8	837.9	835.9	843.8
42.5°	748.5	746.5	740.6	726.7	728.7	718.7	710.8	710.8	706.8	704.8	706.8
45°	647.3	641.3	631.4	615.5	611.5	603.6	587.7	583.7	577.8	577.8	579.7
47.5°	553.9	546.0	530.1	512.2	502.3	492.4	476.5	470.5	460.6	456.6	460.6
50°	476.5	462.6	442.8	416.9	407.0	395.1	379.2	369.3	359.4	355.4	353.4
52.5°	405.0	385.2	365.3	333.6	325.6	313.7	291.9	281.9	272.0	264.1	264.1
55°	343.5	325.6	297.8	268.0	256.1	244.2	222.4	208.5	198.5	194.6	190.6
57.5°	287.9	268.0	242.2	210.5	198.5	186.6	164.8	150.9	141.0	135.0	131.0
60°	242.2	220.4	194.6	166.8	152.9	141.0	119.1	105.2	95.3	89.3	85.4
62.5°	198.5	180.7	154.9	129.1	117.1	105.2	87.4	73.5	63.5	59.6	53.6
65°	166.8	148.9	125.1	103.2	93.3	81.4	65.5	53.6	45.7	39.7	35.7
67.5°	135.0	121.1	101.3	81.4	71.5	63.5	49.6	39.7	31.8	27.8	25.8
70°	107.2	93.3	77.4	61.5	55.6	47.7	37.7	27.8	23.8	19.9	17.9
72.5°	79.4	69.5	57.6	45.7	39.7	35.7	25.8	21.8	15.9	13.9	11.9
75°	57.6	49.6	41.7	31.8	27.8	25.8	19.9	13.9	11.9	9.9	7.9
77.5°	39.7	35.7	27.8	21.8	19.9	17.9	13.9	9.9	7.9	6.0	6.0
80°	25.8	21.8	17.9	13.9	13.9	11.9	7.9	6.0	6.0	4.0	4.0
82.5°	15.9	13.9	11.9	9.9	7.9	7.9	6.0	4.0	4.0	2.0	2.0
85°	9.9	7.9	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



TEST NUMBER: P252295

CATALOG NUMBER: LD6B40D010 EU6B30509727 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9
2.5°	1642.0	1642.0	1645.9	1640.0	1643.9	1643.9	1647.9	1640.0	1643.9	1645.9	1649.9
5°	1634.0	1636.0	1640.0	1638.0	1640.0	1640.0	1643.9	1634.0	1642.0	1642.0	1647.9
7.5°	1626.1	1626.1	1630.0	1628.1	1632.0	1634.0	1638.0	1630.0	1638.0	1638.0	1643.9
10°	1616.1	1616.1	1622.1	1620.1	1626.1	1628.1	1634.0	1626.1	1634.0	1636.0	1642.0
12.5°	1602.2	1604.2	1610.2	1610.2	1616.1	1620.1	1626.1	1622.1	1632.0	1634.0	1642.0
15°	1586.4	1590.3	1598.3	1596.3	1602.2	1608.2	1616.1	1610.2	1624.1	1628.1	1636.0
17.5°	1566.5	1570.5	1576.4	1576.4	1582.4	1586.4	1596.3	1592.3	1604.2	1606.2	1616.1
20°	1536.7	1542.7	1550.6	1548.6	1554.6	1558.6	1566.5	1562.5	1574.4	1578.4	1588.3
22.5°	1501.0	1505.0	1510.9	1510.9	1516.9	1520.8	1528.8	1522.8	1534.7	1536.7	1544.7
25°	1453.3	1457.3	1461.3	1463.3	1469.2	1471.2	1475.2	1471.2	1481.1	1483.1	1493.0
27.5°	1391.8	1393.8	1399.7	1399.7	1403.7	1405.7	1411.6	1403.7	1417.6	1417.6	1423.6
30°	1318.3	1316.3	1324.3	1320.3	1324.3	1324.3	1330.2	1326.3	1336.2	1332.2	1338.2
32.5°	1221.0	1225.0	1225.0	1221.0	1229.0	1227.0	1227.0	1223.0	1229.0	1231.0	1234.9
35°	1107.9	1113.8	1113.8	1115.8	1117.8	1111.8	1113.8	1101.9	1111.8	1113.8	1115.8
37.5°	984.8	978.8	982.8	976.8	986.8	974.8	974.8	966.9	974.8	974.8	976.8
40°	843.8	841.8	845.8	841.8	839.8	837.9	833.9	827.9	835.9	831.9	837.9
42.5°	710.8	708.8	708.8	704.8	702.8	702.8	698.9	694.9	692.9	692.9	702.8
45°	573.8	577.8	573.8	571.8	575.8	571.8	573.8	565.8	569.8	565.8	569.8
47.5°	458.6	460.6	456.6	452.7	458.6	452.7	452.7	446.7	454.7	454.7	450.7
50°	355.4	353.4	349.4	353.4	351.4	351.4	351.4	345.5	349.4	343.5	347.5
52.5°	262.1	260.1	260.1	258.1	260.1	258.1	258.1	256.1	256.1	254.1	256.1
55°	190.6	188.6	184.6	184.6	184.6	186.6	184.6	182.7	182.7	180.7	182.7
57.5°	129.1	125.1	125.1	125.1	125.1	123.1	123.1	121.1	123.1	121.1	123.1
60°	83.4	83.4	79.4	79.4	79.4	79.4	79.4	77.4	79.4	79.4	79.4
62.5°	51.6	51.6	49.6	47.7	49.6	47.7	47.7	47.7	49.6	47.7	49.6
65°	33.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
67.5°	23.8	21.8	21.8	21.8	21.8	21.8	21.8	19.9	21.8	21.8	21.8
70°	15.9	15.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
72.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
75°	7.9	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: P252295

CATALOG NUMBER: LD6B40D010 EU6B30509727 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9
2.5°	1643.9	1645.9	1642.0	1643.9	1640.0	1643.9	1645.9	1649.9
5°	1640.0	1642.0	1638.0	1642.0	1638.0	1642.0	1643.9	1647.9
7.5°	1636.0	1640.0	1636.0	1640.0	1636.0	1640.0	1642.0	1645.9
10°	1636.0	1642.0	1638.0	1643.9	1638.0	1642.0	1645.9	1647.9
12.5°	1636.0	1642.0	1640.0	1643.9	1642.0	1645.9	1649.9	1653.9
15°	1632.0	1638.0	1634.0	1640.0	1638.0	1640.0	1647.9	1647.9
17.5°	1610.2	1616.1	1616.1	1620.1	1620.1	1626.1	1630.0	1634.0
20°	1582.4	1588.3	1586.4	1592.3	1592.3	1598.3	1602.2	1606.2
22.5°	1540.7	1548.6	1546.7	1552.6	1550.6	1554.6	1562.5	1560.5
25°	1487.1	1497.0	1495.0	1499.0	1497.0	1497.0	1501.0	1503.0
27.5°	1421.6	1427.5	1425.5	1429.5	1425.5	1429.5	1433.5	1435.5
30°	1336.2	1340.2	1338.2	1340.2	1338.2	1342.2	1344.1	1348.1
32.5°	1233.0	1238.9	1233.0	1236.9	1234.9	1234.9	1242.9	1238.9
35°	1109.9	1111.8	1113.8	1113.8	1109.9	1111.8	1115.8	1115.8
37.5°	972.9	982.8	970.9	976.8	974.8	974.8	974.8	980.8
40°	829.9	831.9	827.9	827.9	827.9	825.9	833.9	831.9
42.5°	694.9	696.9	694.9	688.9	690.9	690.9	696.9	688.9
45°	563.9	567.8	565.8	565.8	561.9	561.9	563.9	559.9
47.5°	446.7	450.7	444.7	446.7	442.8	446.7	444.7	448.7
50°	339.5	343.5	341.5	343.5	343.5	339.5	345.5	337.5
52.5°	254.1	256.1	254.1	252.1	250.2	250.2	254.1	252.1
55°	180.7	178.7	178.7	178.7	180.7	180.7	178.7	176.7
57.5°	121.1	121.1	119.1	119.1	121.1	117.1	119.1	117.1
60°	77.4	77.4	77.4	77.4	75.4	77.4	77.4	77.4
62.5°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
65°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
67.5°	19.9	21.8	21.8	21.8	19.9	19.9	19.9	19.9
70°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
72.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
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)