

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: P252274

Luminaire Tested: **LD6B30D010 EU6B30508040 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252274  
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 EU6B30508040 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2829.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 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

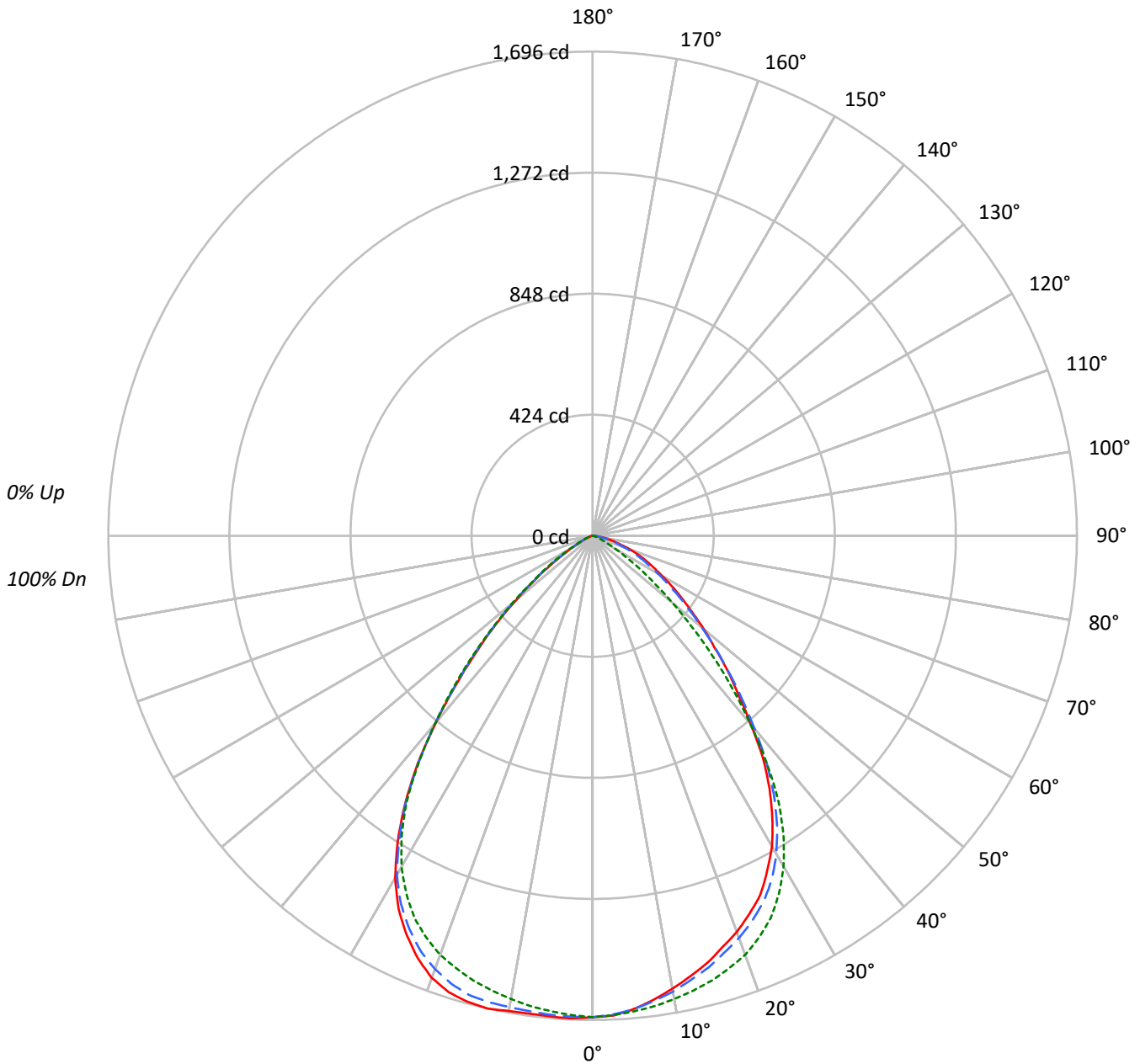
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252274

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSW1H

### Luminous Intensity Polar Plot





TEST NUMBER: P252274

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSW1H

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	110015	110015	110015
5°	108969	109499	110697
10°	106717	109149	111977
15°	104677	108939	114166
20°	102510	108446	114389
25°	99980	106286	110979
30°	94656	100796	104171
35°	85968	90348	91153
40°	73370	73021	72672
45°	61632	54676	52987
50°	51469	36995	35138
55°	43314	22703	20622
60°	36665	11952	10360
65°	31754	6283	5033
70°	26419	3891	2728
75°	19510	2571	1538
80°	15291	1540	751
85°	12201	1497	0



TEST NUMBER: P252274

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.9	5.6
10°-20°	455.0	16.1
20°-30°	671.9	23.8
30°-40°	692.5	24.5
40°-50°	478.3	16.9
50°-60°	235.7	8.3
60°-70°	95.5	3.4
70°-80°	34.1	1.2
80°-90°	7.0	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°	1285.9	45.5
0°-40°	1978.4	69.9
0°-60°	2692.4	95.2
0°-90°	2829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2829.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1686	1686	1686	1686	1686	
5°	1664	1664	1672	1684	1690	157
15°	1550	1566	1613	1666	1690	436
25°	1389	1415	1476	1519	1542	635
35°	1079	1106	1134	1140	1144	669
45°	668	672	593	584	574	516
55°	381	367	200	187	181	344
65°	206	185	41	33	33	204
75°	77	65	10	6	6	87
85°	16	12	2	0	0	20
90°	0	0	0	0	0	



TEST NUMBER: P252274

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3
2.5°	1682.2	1676.1	1680.1	1672.0	1682.2	1672.0	1674.0	1676.1	1674.0	1676.1	1678.1
5°	1663.9	1657.7	1663.9	1653.7	1663.9	1657.7	1657.7	1659.8	1659.8	1661.8	1663.9
7.5°	1639.4	1633.3	1639.4	1629.2	1641.5	1635.3	1635.3	1639.4	1637.4	1639.4	1643.5
10°	1610.9	1602.8	1608.9	1602.8	1615.0	1606.8	1610.9	1610.9	1610.9	1617.0	1621.1
12.5°	1580.4	1572.2	1580.4	1570.2	1582.4	1576.3	1578.3	1584.4	1586.5	1590.5	1592.6
15°	1549.8	1539.6	1543.7	1537.6	1549.8	1543.7	1545.7	1553.9	1553.9	1560.0	1566.1
17.5°	1511.1	1503.0	1511.1	1503.0	1513.2	1509.1	1513.2	1519.3	1519.3	1525.4	1531.5
20°	1476.5	1468.3	1474.5	1468.3	1480.6	1474.5	1476.5	1484.6	1486.7	1492.8	1498.9
22.5°	1433.7	1427.6	1431.7	1425.6	1437.8	1433.7	1435.8	1443.9	1445.9	1450.0	1460.2
25°	1388.9	1376.7	1382.8	1378.7	1391.0	1384.8	1388.9	1397.1	1401.1	1407.3	1415.4
27.5°	1323.8	1317.6	1321.7	1321.7	1331.9	1325.8	1327.8	1336.0	1342.1	1348.2	1358.4
30°	1256.5	1246.4	1250.4	1252.5	1260.6	1256.5	1260.6	1268.8	1270.8	1278.9	1287.1
32.5°	1171.0	1166.9	1175.1	1171.0	1175.1	1175.1	1177.1	1183.2	1187.3	1191.4	1201.6
35°	1079.4	1071.2	1079.4	1075.3	1085.5	1079.4	1085.5	1091.6	1091.6	1099.7	1105.8
37.5°	979.6	969.4	973.5	973.5	977.5	975.5	975.5	985.7	987.7	993.8	999.9
40°	861.5	857.4	865.5	863.5	865.5	865.5	867.6	873.7	877.8	879.8	881.8
42.5°	755.6	757.6	759.6	759.6	759.6	759.6	759.6	767.8	765.7	771.9	773.9
45°	668.0	659.8	663.9	661.9	668.0	661.9	668.0	674.1	670.0	676.1	672.1
47.5°	578.4	578.4	578.4	576.3	580.4	578.4	582.5	584.5	584.5	584.5	582.5
50°	507.1	501.0	503.0	503.0	505.1	503.0	507.1	509.1	509.1	505.1	496.9
52.5°	437.9	435.8	435.8	439.9	439.9	437.9	437.9	437.9	437.9	431.7	427.7
55°	380.8	376.8	378.8	378.8	378.8	378.8	380.8	378.8	378.8	372.7	366.6
57.5°	329.9	325.8	325.8	325.8	327.9	325.8	325.8	325.8	323.8	317.7	309.6
60°	281.0	279.0	281.0	281.0	283.1	281.0	281.0	281.0	277.0	270.9	262.7
62.5°	240.3	240.3	240.3	242.3	242.3	240.3	240.3	238.3	236.2	228.1	219.9
65°	205.7	203.7	205.7	205.7	207.7	207.7	205.7	203.7	201.6	193.5	185.3
67.5°	171.1	169.0	171.1	171.1	173.1	171.1	171.1	171.1	165.0	160.9	152.7
70°	138.5	136.4	136.4	136.4	138.5	134.4	136.4	136.4	132.4	126.3	118.1
72.5°	105.9	105.9	105.9	105.9	105.9	105.9	103.9	103.9	99.8	93.7	89.6
75°	77.4	77.4	79.4	79.4	77.4	77.4	77.4	75.4	73.3	69.2	65.2
77.5°	57.0	57.0	57.0	57.0	55.0	55.0	55.0	53.0	50.9	48.9	44.8
80°	40.7	40.7	40.7	38.7	40.7	38.7	38.7	38.7	34.6	32.6	30.5
82.5°	28.5	26.5	26.5	26.5	26.5	26.5	26.5	24.4	24.4	22.4	20.4
85°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	14.3	12.2	12.2
87.5°	8.1	10.2	10.2	10.2	10.2	10.2	10.2	8.1	8.1	8.1	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: P252274

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3
2.5°	1678.1	1678.1	1682.2	1676.1	1686.3	1680.1	1678.1	1688.3	1682.2	1680.1	1684.2
5°	1663.9	1665.9	1667.9	1663.9	1674.0	1667.9	1667.9	1678.1	1674.0	1672.0	1678.1
7.5°	1645.5	1647.6	1651.6	1649.6	1657.7	1653.7	1655.7	1665.9	1661.8	1661.8	1667.9
10°	1623.1	1627.2	1631.3	1631.3	1641.5	1637.4	1637.4	1649.6	1645.5	1647.6	1655.7
12.5°	1596.7	1602.8	1608.9	1610.9	1621.1	1615.0	1617.0	1631.3	1629.2	1631.3	1639.4
15°	1568.1	1576.3	1582.4	1582.4	1594.6	1588.5	1594.6	1608.9	1604.8	1612.9	1623.1
17.5°	1535.6	1543.7	1551.8	1553.9	1566.1	1562.0	1570.2	1584.4	1584.4	1588.5	1600.7
20°	1505.0	1515.2	1519.3	1525.4	1537.6	1535.6	1539.6	1555.9	1555.9	1562.0	1574.2
22.5°	1464.3	1474.5	1482.6	1488.7	1498.9	1498.9	1505.0	1519.3	1519.3	1523.3	1535.6
25°	1419.5	1431.7	1437.8	1443.9	1454.1	1452.1	1458.2	1470.4	1472.4	1476.5	1488.7
27.5°	1362.4	1372.6	1380.8	1384.8	1399.1	1391.0	1397.1	1411.3	1409.3	1413.4	1423.5
30°	1291.2	1301.4	1309.5	1309.5	1321.7	1321.7	1327.8	1333.9	1333.9	1338.0	1346.2
32.5°	1207.7	1219.9	1219.9	1226.0	1234.1	1226.0	1234.1	1242.3	1238.2	1244.3	1250.4
35°	1112.0	1118.1	1120.1	1120.1	1126.2	1124.2	1122.1	1128.2	1124.2	1134.4	1140.5
37.5°	995.9	1004.0	999.9	1004.0	1002.0	995.9	995.9	1006.1	997.9	999.9	1006.1
40°	883.9	883.9	881.8	871.6	873.7	867.6	865.5	867.6	859.4	857.4	865.5
42.5°	767.8	765.7	759.6	745.4	747.4	737.2	729.1	729.1	725.0	723.0	725.0
45°	663.9	657.8	647.6	631.3	627.3	619.1	602.8	598.7	592.6	592.6	594.7
47.5°	568.2	560.0	543.8	525.4	515.2	505.1	488.8	482.7	472.5	468.4	472.5
50°	488.8	474.5	454.1	427.7	417.5	405.3	389.0	378.8	368.6	364.5	362.5
52.5°	415.5	395.1	374.7	342.1	334.0	321.8	299.4	289.2	279.0	270.9	270.9
55°	352.3	334.0	305.5	274.9	262.7	250.5	228.1	213.8	203.7	199.6	195.5
57.5°	295.3	274.9	248.5	215.9	203.7	191.4	169.0	154.8	144.6	138.5	134.4
60°	248.5	226.1	199.6	171.1	156.8	144.6	122.2	107.9	97.8	91.6	87.6
62.5°	203.7	185.3	158.9	132.4	120.2	107.9	89.6	75.4	65.2	61.1	55.0
65°	171.1	152.7	128.3	105.9	95.7	83.5	67.2	55.0	46.8	40.7	36.7
67.5°	138.5	124.2	103.9	83.5	73.3	65.2	50.9	40.7	32.6	28.5	26.5
70°	110.0	95.7	79.4	63.1	57.0	48.9	38.7	28.5	24.4	20.4	18.3
72.5°	81.5	71.3	59.1	46.8	40.7	36.7	26.5	22.4	16.3	14.3	12.2
75°	59.1	50.9	42.8	32.6	28.5	26.5	20.4	14.3	12.2	10.2	8.1
77.5°	40.7	36.7	28.5	22.4	20.4	18.3	14.3	10.2	8.1	6.1	6.1
80°	26.5	22.4	18.3	14.3	14.3	12.2	8.1	6.1	6.1	4.1	4.1
82.5°	16.3	14.3	12.2	10.2	8.1	8.1	6.1	4.1	4.1	2.0	2.0
85°	10.2	8.1	6.1	6.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0
87.5°	4.1	4.1	4.1	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: P252274

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3
2.5°	1684.2	1684.2	1688.3	1682.2	1686.3	1686.3	1690.3	1682.2	1686.3	1688.3	1692.4
5°	1676.1	1678.1	1682.2	1680.1	1682.2	1682.2	1686.3	1676.1	1684.2	1684.2	1690.3
7.5°	1667.9	1667.9	1672.0	1670.0	1674.0	1676.1	1680.1	1672.0	1680.1	1680.1	1686.3
10°	1657.7	1657.7	1663.9	1661.8	1667.9	1670.0	1676.1	1667.9	1676.1	1678.1	1684.2
12.5°	1643.5	1645.5	1651.6	1651.6	1657.7	1661.8	1667.9	1663.9	1674.0	1676.1	1684.2
15°	1627.2	1631.3	1639.4	1637.4	1643.5	1649.6	1657.7	1651.6	1665.9	1670.0	1678.1
17.5°	1606.8	1610.9	1617.0	1617.0	1623.1	1627.2	1637.4	1633.3	1645.5	1647.6	1657.7
20°	1576.3	1582.4	1590.5	1588.5	1594.6	1598.7	1606.8	1602.8	1615.0	1619.1	1629.2
22.5°	1539.6	1543.7	1549.8	1549.8	1555.9	1560.0	1568.1	1562.0	1574.2	1576.3	1584.4
25°	1490.7	1494.8	1498.9	1500.9	1507.0	1509.1	1513.2	1509.1	1519.3	1521.3	1531.5
27.5°	1427.6	1429.7	1435.8	1435.8	1439.8	1441.9	1448.0	1439.8	1454.1	1454.1	1460.2
30°	1352.3	1350.2	1358.4	1354.3	1358.4	1358.4	1364.5	1360.4	1370.6	1366.5	1372.6
32.5°	1252.5	1256.5	1256.5	1252.5	1260.6	1258.6	1258.6	1254.5	1260.6	1262.7	1266.7
35°	1136.4	1142.5	1142.5	1144.5	1146.6	1140.5	1142.5	1130.3	1140.5	1142.5	1144.5
37.5°	1010.1	1004.0	1008.1	1002.0	1012.2	999.9	999.9	991.8	999.9	999.9	1002.0
40°	865.5	863.5	867.6	863.5	861.5	859.4	855.3	849.2	857.4	853.3	859.4
42.5°	729.1	727.0	727.0	723.0	720.9	720.9	716.9	712.8	710.8	710.8	720.9
45°	588.6	592.6	588.6	586.5	590.6	586.5	588.6	580.4	584.5	580.4	584.5
47.5°	470.4	472.5	468.4	464.3	470.4	464.3	464.3	458.2	466.4	466.4	462.3
50°	364.5	362.5	358.4	362.5	360.5	360.5	360.5	354.4	358.4	352.3	356.4
52.5°	268.8	266.8	266.8	264.8	266.8	264.8	264.8	262.7	262.7	260.7	262.7
55°	195.5	193.5	189.4	189.4	189.4	191.4	189.4	187.4	187.4	185.3	187.4
57.5°	132.4	128.3	128.3	128.3	128.3	126.3	126.3	124.2	126.3	124.2	126.3
60°	85.5	85.5	81.5	81.5	81.5	81.5	81.5	79.4	81.5	81.5	81.5
62.5°	53.0	53.0	50.9	48.9	50.9	48.9	48.9	48.9	50.9	48.9	50.9
65°	34.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
67.5°	24.4	22.4	22.4	22.4	22.4	22.4	22.4	20.4	22.4	22.4	22.4
70°	16.3	16.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
72.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
75°	8.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	6.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	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: P252274

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3	1686.3
2.5°	1686.3	1688.3	1684.2	1686.3	1682.2	1686.3	1688.3	1692.4
5°	1682.2	1684.2	1680.1	1684.2	1680.1	1684.2	1686.3	1690.3
7.5°	1678.1	1682.2	1678.1	1682.2	1678.1	1682.2	1684.2	1688.3
10°	1678.1	1684.2	1680.1	1686.3	1680.1	1684.2	1688.3	1690.3
12.5°	1678.1	1684.2	1682.2	1686.3	1684.2	1688.3	1692.4	1696.4
15°	1674.0	1680.1	1676.1	1682.2	1680.1	1682.2	1690.3	1690.3
17.5°	1651.6	1657.7	1657.7	1661.8	1661.8	1667.9	1672.0	1676.1
20°	1623.1	1629.2	1627.2	1633.3	1633.3	1639.4	1643.5	1647.6
22.5°	1580.4	1588.5	1586.5	1592.6	1590.5	1594.6	1602.8	1600.7
25°	1525.4	1535.6	1533.5	1537.6	1535.6	1535.6	1539.6	1541.7
27.5°	1458.2	1464.3	1462.2	1466.3	1462.2	1466.3	1470.4	1472.4
30°	1370.6	1374.7	1372.6	1374.7	1372.6	1376.7	1378.7	1382.8
32.5°	1264.7	1270.8	1264.7	1268.8	1266.7	1266.7	1274.9	1270.8
35°	1138.4	1140.5	1142.5	1142.5	1138.4	1140.5	1144.5	1144.5
37.5°	997.9	1008.1	995.9	1002.0	999.9	999.9	999.9	1006.1
40°	851.3	853.3	849.2	849.2	849.2	847.2	855.3	853.3
42.5°	712.8	714.8	712.8	706.7	708.7	708.7	714.8	706.7
45°	578.4	582.5	580.4	580.4	576.3	576.3	578.4	574.3
47.5°	458.2	462.3	456.2	458.2	454.1	458.2	456.2	460.3
50°	348.2	352.3	350.3	352.3	352.3	348.2	354.4	346.2
52.5°	260.7	262.7	260.7	258.6	256.6	256.6	260.7	258.6
55°	185.3	183.3	183.3	183.3	185.3	185.3	183.3	181.3
57.5°	124.2	124.2	122.2	122.2	124.2	120.2	122.2	120.2
60°	79.4	79.4	79.4	79.4	77.4	79.4	79.4	79.4
62.5°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
65°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
67.5°	20.4	22.4	22.4	22.4	20.4	20.4	20.4	20.4
70°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
72.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)