

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: P252378

Luminaire Tested: **LD6B30D010 EU6B30508040 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B30D010 EU6B30508040 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2768.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

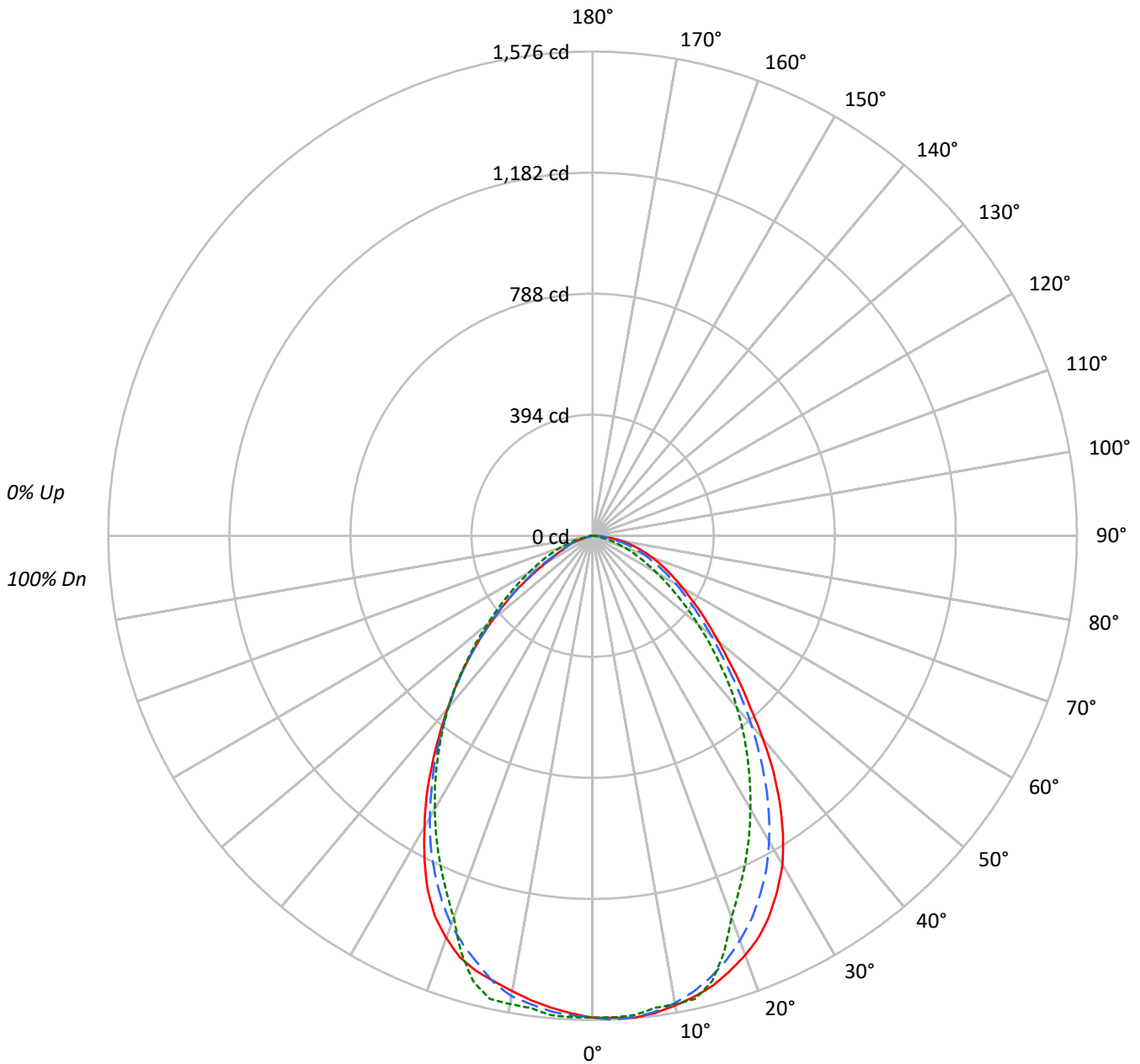
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

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

	0°	90°	180°
0°	102323	102323	102323
5°	103114	102577	100979
10°	102822	102550	99715
15°	102353	101394	99050
20°	100830	91776	96727
25°	98094	84604	91493
30°	93142	77337	82400
35°	84518	69920	72516
40°	73379	62273	62452
45°	62583	53559	52997
50°	54169	45278	42791
55°	48421	37763	33133
60°	44116	31355	22325
65°	41187	25780	16672
70°	39237	20983	13982
75°	36979	14897	4613
80°	35204	7664	1540
85°	28969	4566	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	5.4
10°-20°	414.2	15.0
20°-30°	571.8	20.7
30°-40°	581.8	21.0
40°-50°	467.6	16.9
50°-60°	310.9	11.2
60°-70°	177.2	6.4
70°-80°	79.6	2.9
80°-90°	16.8	0.6
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°	1134.1	41.0
0°-40°	1716.0	62.0
0°-60°	2494.5	90.1
0°-90°	2768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2768.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1568	1568	1568	1568	1568	
5°	1574	1572	1566	1554	1542	149
15°	1515	1487	1501	1442	1466	426
25°	1363	1289	1175	1214	1271	624
35°	1061	980	878	894	910	660
45°	678	638	580	574	574	526
55°	426	397	332	295	291	383
65°	267	238	167	108	108	266
75°	147	122	59	24	18	157
85°	39	26	6	2	0	46
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°	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4
2.5°	1570.4	1578.6	1576.5	1574.5	1576.5	1574.5	1570.4	1570.4	1566.3	1566.3	1576.5
5°	1574.5	1578.6	1576.5	1574.5	1574.5	1576.5	1568.4	1568.4	1564.3	1562.3	1572.4
7.5°	1566.3	1572.4	1568.4	1568.4	1566.3	1568.4	1560.2	1560.2	1554.1	1552.1	1562.3
10°	1552.1	1560.2	1556.2	1556.2	1556.2	1552.1	1548.0	1546.0	1539.9	1537.8	1543.9
12.5°	1535.8	1541.9	1539.9	1535.8	1535.8	1535.8	1527.6	1525.6	1517.5	1513.4	1519.5
15°	1515.4	1519.5	1517.5	1515.4	1511.3	1511.3	1503.2	1499.1	1491.0	1482.8	1486.9
17.5°	1484.9	1491.0	1486.9	1484.9	1478.8	1478.8	1470.6	1466.5	1454.3	1446.2	1448.2
20°	1452.3	1454.3	1452.3	1448.2	1442.1	1440.1	1431.9	1423.8	1413.6	1403.4	1401.4
22.5°	1413.6	1415.6	1409.5	1405.4	1399.3	1397.3	1387.1	1381.0	1364.7	1352.5	1350.4
25°	1362.7	1364.7	1364.7	1354.5	1350.4	1346.4	1336.2	1326.0	1311.7	1295.4	1289.3
27.5°	1301.5	1307.7	1303.6	1293.4	1285.3	1283.2	1273.0	1264.9	1246.6	1232.3	1224.1
30°	1236.4	1234.3	1232.3	1226.2	1214.0	1211.9	1201.7	1191.6	1177.3	1159.0	1148.8
32.5°	1152.9	1152.9	1150.8	1144.7	1132.5	1128.4	1120.3	1108.0	1091.7	1077.5	1067.3
35°	1061.2	1063.2	1061.2	1049.0	1040.8	1036.8	1032.7	1018.4	1004.2	987.9	979.7
37.5°	965.5	959.4	961.4	951.2	941.0	945.1	932.9	926.8	910.5	898.2	890.1
40°	861.6	865.7	857.5	853.4	847.3	841.2	841.2	831.0	822.9	808.6	804.6
42.5°	759.7	765.9	763.8	759.7	751.6	753.6	743.4	739.4	729.2	723.1	717.0
45°	678.3	678.3	678.3	674.2	672.2	668.1	662.0	655.9	649.8	641.6	637.5
47.5°	598.8	598.8	600.9	596.8	592.7	590.7	586.6	586.6	576.4	568.3	564.2
50°	533.7	533.7	533.7	529.6	525.5	525.5	521.4	517.4	511.2	505.1	501.1
52.5°	474.6	474.6	474.6	470.5	468.5	466.4	464.4	462.4	454.2	450.1	446.1
55°	425.7	423.7	423.7	421.6	417.6	417.6	415.5	411.4	405.3	399.2	397.2
57.5°	376.8	378.9	376.8	376.8	372.7	372.7	368.7	366.6	360.5	356.4	352.4
60°	338.1	338.1	338.1	336.1	332.0	334.0	330.0	327.9	321.8	315.7	311.6
62.5°	299.4	301.5	301.5	299.4	295.3	295.3	293.3	291.3	285.2	279.0	272.9
65°	266.8	266.8	266.8	264.8	262.8	262.8	260.7	258.7	252.6	244.4	238.3
67.5°	236.3	234.2	234.2	234.2	232.2	230.2	228.1	226.1	220.0	213.9	205.7
70°	205.7	205.7	205.7	203.7	199.6	201.6	199.6	197.6	191.5	185.4	179.2
72.5°	177.2	177.2	175.2	173.1	173.1	171.1	171.1	169.1	162.9	154.8	148.7
75°	146.7	146.7	146.7	146.7	142.6	144.6	140.5	138.5	134.4	128.3	122.2
77.5°	120.2	120.2	120.2	118.1	116.1	116.1	114.1	112.0	105.9	101.8	93.7
80°	93.7	93.7	93.7	93.7	91.7	89.6	87.6	85.5	81.5	75.4	69.3
82.5°	69.3	69.3	67.2	67.2	67.2	65.2	63.1	61.1	57.0	53.0	48.9
85°	38.7	40.7	40.7	36.7	38.7	36.7	36.7	32.6	32.6	28.5	26.5
87.5°	14.3	12.2	12.2	12.2	12.2	12.2	12.2	10.2	10.2	10.2	8.1
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°	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4
2.5°	1568.4	1566.3	1574.5	1574.5	1562.3	1568.4	1570.4	1566.3	1566.3	1568.4	1562.3
5°	1564.3	1560.2	1568.4	1570.4	1558.2	1564.3	1566.3	1562.3	1564.3	1566.3	1558.2
7.5°	1550.0	1550.0	1556.2	1558.2	1546.0	1552.1	1552.1	1548.0	1550.0	1550.0	1543.9
10°	1535.8	1529.7	1535.8	1535.8	1525.6	1527.6	1531.7	1529.7	1537.8	1548.0	1548.0
12.5°	1509.3	1503.2	1513.4	1513.4	1507.3	1515.4	1525.6	1531.7	1539.9	1543.9	1531.7
15°	1476.7	1478.8	1497.1	1511.3	1505.2	1517.5	1527.6	1523.6	1513.4	1501.2	1482.8
17.5°	1433.9	1427.8	1444.1	1452.3	1444.1	1448.2	1456.3	1448.2	1431.9	1421.7	1397.3
20°	1385.1	1368.8	1368.8	1364.7	1350.4	1350.4	1348.4	1334.1	1328.0	1321.9	1311.7
22.5°	1330.1	1311.7	1305.6	1293.4	1281.2	1279.1	1273.0	1258.8	1250.6	1246.6	1234.3
25°	1266.9	1250.6	1240.4	1228.2	1209.9	1205.8	1199.7	1185.4	1181.4	1175.3	1165.1
27.5°	1201.7	1181.4	1167.1	1154.9	1138.6	1136.6	1124.3	1114.2	1106.0	1101.9	1093.8
30°	1126.4	1104.0	1093.8	1077.5	1065.3	1061.2	1051.0	1036.8	1030.6	1026.6	1020.5
32.5°	1042.9	1024.5	1014.3	1000.1	983.8	985.8	973.6	961.4	957.3	953.2	947.1
35°	961.4	943.1	930.8	918.6	908.4	904.4	896.2	886.0	879.9	877.9	873.8
37.5°	871.8	857.5	847.3	835.1	827.0	822.9	818.8	808.6	804.6	804.6	796.4
40°	784.2	772.0	763.8	757.7	747.5	745.5	741.4	735.3	733.3	731.2	725.1
42.5°	704.7	688.5	682.3	678.3	672.2	668.1	666.0	662.0	659.9	657.9	651.8
45°	629.4	615.1	609.0	604.9	598.8	596.8	594.8	588.6	584.6	580.5	578.5
47.5°	556.1	545.9	543.8	533.7	529.6	525.5	521.4	517.4	515.3	513.3	505.1
50°	492.9	486.8	476.6	470.5	466.4	464.4	456.3	450.1	448.1	446.1	440.0
52.5°	435.9	427.7	421.6	411.4	409.4	405.3	401.3	393.1	389.0	387.0	380.9
55°	385.0	378.9	370.7	362.6	356.4	354.4	348.3	340.2	336.1	332.0	327.9
57.5°	342.2	332.0	323.9	315.7	311.6	305.5	299.4	295.3	289.2	283.1	277.0
60°	301.5	293.3	283.1	275.0	270.9	266.8	258.7	252.6	246.5	240.3	234.2
62.5°	262.8	254.6	244.4	236.3	232.2	228.1	220.0	213.9	207.8	201.6	193.5
65°	228.1	220.0	211.8	203.7	199.6	195.5	187.4	179.2	173.1	167.0	158.9
67.5°	199.6	189.4	181.3	173.1	169.1	165.0	156.8	150.7	142.6	136.5	128.3
70°	169.1	160.9	154.8	146.7	142.6	138.5	130.4	122.2	116.1	110.0	101.8
72.5°	142.6	132.4	126.3	118.1	114.1	112.0	103.9	97.8	91.7	83.5	77.4
75°	114.1	105.9	97.8	91.7	87.6	85.5	77.4	71.3	65.2	59.1	53.0
77.5°	87.6	81.5	73.3	67.2	63.1	61.1	53.0	46.8	40.7	36.7	30.6
80°	65.2	57.0	53.0	46.8	44.8	40.7	36.7	30.6	26.5	20.4	16.3
82.5°	44.8	38.7	34.6	30.6	28.5	26.5	22.4	18.3	14.3	12.2	10.2
85°	24.4	20.4	18.3	16.3	14.3	14.3	12.2	10.2	8.1	6.1	4.1
87.5°	8.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4
2.5°	1566.3	1566.3	1566.3	1564.3	1564.3	1564.3	1562.3	1570.4	1562.3	1560.2	1566.3
5°	1564.3	1560.2	1560.2	1560.2	1560.2	1558.2	1556.2	1560.2	1554.1	1552.1	1552.1
7.5°	1552.1	1550.0	1550.0	1548.0	1546.0	1543.9	1541.9	1543.9	1537.8	1535.8	1535.8
10°	1554.1	1550.0	1550.0	1543.9	1539.9	1533.7	1527.6	1529.7	1521.5	1515.4	1515.4
12.5°	1529.7	1519.5	1513.4	1507.3	1503.2	1501.2	1493.0	1497.1	1488.9	1486.9	1486.9
15°	1474.7	1462.5	1452.3	1448.2	1448.2	1444.1	1438.0	1446.2	1442.1	1444.1	1454.3
17.5°	1389.1	1383.0	1376.9	1374.9	1376.9	1381.0	1385.1	1397.3	1397.3	1403.4	1413.6
20°	1313.8	1309.7	1313.8	1313.8	1315.8	1324.0	1332.1	1342.3	1346.4	1352.5	1366.7
22.5°	1240.4	1240.4	1244.5	1250.6	1248.6	1262.8	1264.9	1283.2	1283.2	1295.4	1307.7
25°	1169.1	1169.1	1173.2	1175.3	1179.3	1187.5	1195.6	1209.9	1214.0	1226.2	1236.4
27.5°	1099.9	1097.9	1097.9	1099.9	1104.0	1114.2	1118.2	1134.5	1140.6	1148.8	1159.0
30°	1022.5	1020.5	1024.5	1028.6	1026.6	1036.8	1042.9	1055.1	1059.2	1067.3	1075.5
32.5°	949.2	949.2	949.2	953.2	953.2	961.4	961.4	975.6	975.6	981.8	989.9
35°	873.8	873.8	875.8	877.9	879.9	882.0	884.0	892.1	894.2	896.2	900.3
37.5°	802.5	800.5	802.5	802.5	798.4	806.6	806.6	814.7	808.6	814.7	816.8
40°	729.2	729.2	727.2	727.2	727.2	731.2	727.2	733.3	729.2	733.3	731.2
42.5°	653.8	653.8	649.8	653.8	651.8	651.8	651.8	655.9	649.8	653.8	655.9
45°	578.5	576.4	576.4	574.4	574.4	574.4	576.4	576.4	574.4	578.5	578.5
47.5°	505.1	503.1	503.1	503.1	503.1	505.1	499.0	503.1	499.0	499.0	499.0
50°	442.0	440.0	437.9	435.9	433.8	433.8	431.8	431.8	427.7	425.7	423.7
52.5°	380.9	378.9	374.8	374.8	372.7	370.7	364.6	364.6	358.5	356.4	356.4
55°	325.9	319.8	317.7	313.7	313.7	309.6	305.5	301.5	295.3	291.3	291.3
57.5°	275.0	268.9	264.8	262.8	260.7	256.6	248.5	246.5	238.3	236.3	234.2
60°	230.2	224.1	217.9	213.9	211.8	205.7	197.6	193.5	189.4	183.3	177.2
62.5°	187.4	181.3	173.1	171.1	167.0	160.9	154.8	148.7	144.6	138.5	134.4
65°	150.7	144.6	138.5	134.4	130.4	124.2	118.1	112.0	108.0	105.9	103.9
67.5°	122.2	114.1	108.0	105.9	101.8	97.8	91.7	89.6	85.5	85.5	85.5
70°	95.7	89.6	83.5	81.5	79.4	75.4	71.3	71.3	71.3	71.3	71.3
72.5°	71.3	67.2	61.1	59.1	57.0	55.0	50.9	53.0	50.9	50.9	50.9
75°	44.8	40.7	36.7	34.6	32.6	30.6	28.5	26.5	24.4	22.4	22.4
77.5°	24.4	20.4	18.3	16.3	16.3	14.3	12.2	12.2	10.2	10.2	10.2
80°	14.3	12.2	10.2	8.1	8.1	6.1	6.1	6.1	6.1	4.1	4.1
82.5°	8.1	6.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0
85°	4.1	4.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
87.5°	2.0	2.0	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: P252378

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4
2.5°	1556.2	1562.3	1556.2	1562.3	1562.3	1562.3	1562.3	1556.2
5°	1546.0	1550.0	1543.9	1548.0	1550.0	1548.0	1548.0	1541.9
7.5°	1527.6	1531.7	1525.6	1531.7	1533.7	1531.7	1529.7	1525.6
10°	1509.3	1511.3	1505.2	1509.3	1513.4	1513.4	1511.3	1505.2
12.5°	1480.8	1486.9	1480.8	1484.9	1488.9	1491.0	1491.0	1484.9
15°	1448.2	1458.4	1454.3	1460.4	1466.5	1468.6	1468.6	1466.5
17.5°	1415.6	1425.8	1419.7	1429.9	1436.0	1440.1	1442.1	1438.0
20°	1368.8	1381.0	1376.9	1385.1	1393.2	1399.3	1399.3	1393.2
22.5°	1307.7	1324.0	1321.9	1328.0	1338.2	1340.2	1344.3	1340.2
25°	1240.4	1252.7	1250.6	1256.7	1269.0	1269.0	1271.0	1271.0
27.5°	1163.0	1175.3	1173.2	1177.3	1185.4	1187.5	1189.5	1185.4
30°	1079.5	1085.6	1085.6	1091.7	1097.9	1099.9	1099.9	1093.8
32.5°	987.9	996.0	1000.1	998.1	1004.2	1008.2	1006.2	1006.2
35°	904.4	906.4	908.4	910.5	912.5	916.6	912.5	910.5
37.5°	814.7	820.8	816.8	820.8	824.9	822.9	820.8	820.8
40°	733.3	735.3	731.2	735.3	737.3	737.3	737.3	733.3
42.5°	651.8	655.9	651.8	655.9	655.9	655.9	655.9	653.8
45°	570.3	574.4	574.4	576.4	576.4	574.4	574.4	574.4
47.5°	495.0	499.0	495.0	499.0	501.1	497.0	497.0	497.0
50°	423.7	421.6	421.6	423.7	423.7	423.7	423.7	421.6
52.5°	350.3	352.4	352.4	352.4	354.4	352.4	354.4	354.4
55°	287.2	287.2	287.2	289.2	287.2	287.2	289.2	291.3
57.5°	230.2	228.1	226.1	226.1	228.1	226.1	226.1	226.1
60°	177.2	175.2	173.1	173.1	173.1	173.1	173.1	171.1
62.5°	132.4	132.4	132.4	134.4	134.4	134.4	134.4	136.5
65°	105.9	105.9	105.9	105.9	105.9	105.9	105.9	108.0
67.5°	85.5	85.5	85.5	87.6	87.6	87.6	87.6	87.6
70°	71.3	71.3	73.3	71.3	73.3	73.3	73.3	73.3
72.5°	48.9	48.9	48.9	48.9	48.9	46.8	48.9	46.8
75°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	18.3
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)