

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: io LED

Report Number: P397245

Luminaire Tested: **4VRVT2-LD5-11-DR100-W-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 4VRVT2-LD5-11-DR100-W-UNV-LG52-CD1-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7966.4 lumens  
Efficiency: N/A  
Efficacy: 40.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.58 / 1.57  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')  
CIE Type: Semi-Direct

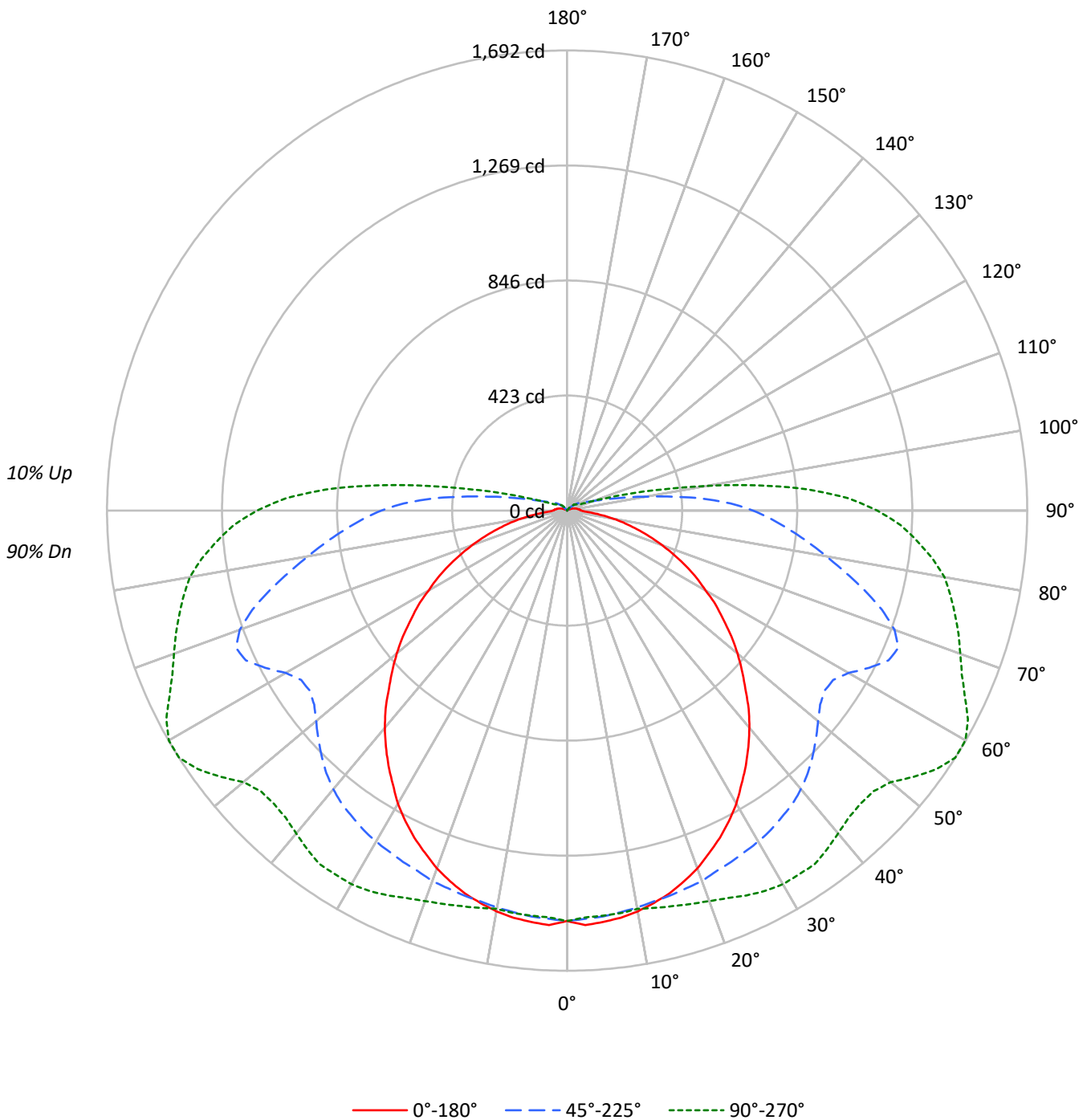
Input Watts (W): 196.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	101	94	88	83	97	91	85	80	85	80	76	79	75	72	74	71	68	65
2	90	79	71	63	86	77	69	62	71	64	59	66	61	56	62	57	53	50
3	81	68	58	50	77	66	57	49	61	53	47	57	50	45	53	47	43	40
4	73	59	49	41	70	57	48	40	53	45	39	50	43	37	46	40	35	33
5	67	52	42	35	64	51	41	34	47	39	33	44	37	31	41	35	30	27
6	62	47	37	30	59	45	36	29	42	34	28	40	32	27	37	31	26	23
7	57	42	33	26	55	41	32	25	38	30	24	36	29	24	34	27	23	20
8	53	38	29	23	51	37	28	22	35	27	22	33	26	21	31	25	20	18
9	49	35	26	20	47	34	26	20	32	24	19	30	23	19	28	22	18	16
10	46	32	24	18	44	31	23	18	30	22	17	28	21	17	26	20	16	14

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

	0°	45°	90°
0°	7796	7796	7796
5°	7847	7596	7535
10°	7795	7428	7368
15°	7709	7319	7394
20°	7588	7270	7491
25°	7431	7239	7702
30°	7256	7276	7936
35°	7025	7325	8117
40°	6803	7385	8167
45°	6509	7380	8355
50°	6274	7365	8933
55°	5987	7558	10115
60°	5689	8467	11077
65°	5416	10178	11502
70°	5052	11215	12129
75°	4631	11387	13134
80°	4210	11524	14499
85°	3617	12143	15928



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	1.8
10°-20°	417.7	5.2
20°-30°	663.8	8.3
30°-40°	858.1	10.8
40°-50°	968.3	12.2
50°-60°	1061.5	13.3
60°-70°	1132.8	14.2
70°-80°	1061.9	13.3
80°-90°	855.2	10.7
90°-100°	532.5	6.7
100°-110°	172.6	2.2
110°-120°	56.3	0.7
120°-130°	28.8	0.4
130°-140°	11.9	0.1
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1224.6	15.4
0°-40°	2082.7	26.1
0°-60°	4112.5	51.6
0°-90°	7162.3	89.9
90°-120°	761.5	9.6
90°-150°	804.0	10.1
90°-180°	804.0	10.1
0°-180°	7966.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1518	1513	1498	1500	1495	144
15°	1457	1457	1465	1503	1506	410
25°	1328	1346	1426	1527	1561	611
35°	1145	1210	1376	1534	1587	716
45°	926	1040	1277	1452	1525	717
55°	703	852	1155	1535	1657	630
65°	481	674	1304	1579	1613	476
75°	267	652	1132	1370	1476	284
85°	89	446	823	1166	1292	91
90°	51	334	684	1015	1141	29
95°	45	232	503	787	891	35
105°	30	84	166	215	240	32
115°	15	38	75	67	58	15
125°	6	13	45	46	40	6
135°	2	0	18	27	26	2
145°	1	0	0	5	5	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P397245

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9
2.5°	1525.6	1521.4	1518.2	1518.2	1518.2	1517.2	1517.2	1516.2	1514.1	1507.8	1502.6
5°	1518.2	1516.2	1513.0	1513.0	1513.0	1513.0	1513.0	1511.0	1506.7	1502.6	1498.4
7.5°	1509.9	1507.8	1503.6	1504.6	1501.5	1502.6	1501.5	1499.4	1498.4	1495.3	1490.0
10°	1496.3	1494.2	1490.0	1491.0	1489.0	1490.0	1490.0	1491.0	1489.0	1485.8	1481.7
12.5°	1477.4	1476.4	1474.3	1473.3	1475.4	1477.4	1478.6	1476.4	1474.3	1473.3	1472.2
15°	1456.6	1454.5	1452.4	1453.4	1456.6	1456.6	1459.7	1459.7	1459.7	1460.7	1465.0
17.5°	1429.4	1428.3	1426.2	1428.3	1430.4	1431.4	1435.7	1437.8	1438.8	1447.1	1456.6
20°	1400.1	1398.0	1395.9	1398.0	1401.1	1405.4	1409.5	1415.8	1425.2	1438.8	1449.3
22.5°	1363.5	1362.5	1361.4	1363.5	1368.7	1375.0	1382.3	1395.9	1410.6	1425.2	1434.6
25°	1327.9	1325.8	1324.8	1329.0	1339.4	1345.8	1355.1	1372.9	1389.7	1408.5	1426.2
27.5°	1288.2	1281.9	1287.2	1291.4	1305.0	1313.3	1324.8	1347.8	1366.6	1387.5	1414.7
30°	1244.3	1241.2	1241.2	1250.6	1268.3	1280.9	1294.5	1320.6	1342.6	1371.8	1405.4
32.5°	1193.0	1194.1	1196.2	1208.7	1232.8	1247.4	1259.0	1289.3	1317.5	1354.1	1392.8
35°	1145.0	1142.9	1148.1	1165.8	1193.0	1209.8	1225.4	1257.9	1293.4	1334.2	1376.1
37.5°	1094.8	1092.7	1100.0	1120.9	1150.2	1168.0	1185.8	1226.6	1267.3	1313.3	1360.4
40°	1042.5	1042.5	1050.9	1073.8	1106.2	1125.1	1146.0	1192.0	1237.0	1287.2	1337.4
42.5°	988.2	986.0	996.5	1027.8	1064.5	1083.3	1108.4	1156.5	1207.7	1257.9	1310.2
45°	926.4	934.8	945.3	976.6	1014.2	1040.4	1069.7	1120.9	1173.2	1226.6	1276.7
47.5°	872.1	878.3	893.0	926.4	970.3	994.4	1025.8	1080.2	1136.6	1187.8	1241.2
50°	817.7	820.8	840.7	874.2	920.2	950.5	980.8	1036.2	1091.6	1150.2	1204.6
52.5°	761.2	762.2	786.3	818.7	873.1	903.4	931.7	990.2	1049.8	1110.5	1172.2
55°	702.6	705.8	730.9	766.5	823.9	852.2	883.5	944.2	1009.0	1078.1	1155.4
57.5°	649.4	652.5	676.6	715.2	774.8	805.1	835.4	901.4	972.4	1058.2	1159.6
60°	588.7	597.0	619.0	663.0	723.6	753.9	789.4	862.6	951.5	1065.5	1194.1
62.5°	537.4	539.5	564.6	612.7	676.6	710.0	748.6	837.5	954.6	1097.9	1251.6
65°	481.0	486.2	512.3	566.7	634.7	674.4	720.4	834.4	983.9	1154.4	1303.9
67.5°	424.6	432.9	464.2	523.8	602.3	650.4	709.0	856.4	1031.0	1197.3	1318.6
70°	371.2	381.7	417.2	486.2	580.3	641.0	716.2	888.8	1063.4	1200.4	1280.9
72.5°	317.8	332.5	378.5	458.0	572.0	647.3	733.0	908.6	1056.1	1150.2	1214.0
75°	266.6	283.4	343.0	436.0	570.9	652.5	739.3	889.8	994.4	1072.8	1132.4
77.5°	220.6	240.5	309.5	418.2	563.6	639.9	710.0	826.1	912.8	986.0	1046.6
80°	173.6	199.7	280.2	395.3	528.1	588.7	646.2	743.4	821.8	896.1	967.2
82.5°	128.6	163.1	248.9	360.7	467.4	521.8	566.7	655.6	735.0	812.5	894.0
85°	88.9	128.6	211.2	307.4	399.4	446.5	490.4	575.1	653.5	735.0	822.9
87.5°	61.7	101.4	175.7	260.4	345.0	384.8	424.6	506.1	584.5	665.0	755.0
90°	51.2	80.5	146.4	220.6	295.9	333.5	371.2	445.4	522.8	600.2	683.8
92.5°	48.1	67.0	120.2	185.0	253.0	284.4	317.8	386.9	455.9	530.2	601.2
95°	45.0	53.4	95.1	147.4	205.0	232.2	260.4	314.7	377.4	438.1	503.0
97.5°	40.8	43.9	73.2	115.0	161.0	184.0	205.0	248.9	298.0	344.0	390.0
100°	37.7	37.7	55.4	87.8	124.4	141.2	159.0	195.5	227.9	262.5	294.9
102.5°	33.4	33.4	42.9	65.8	95.1	108.7	124.4	149.5	173.6	197.6	220.6
105°	30.3	29.3	34.5	51.2	72.2	83.7	95.1	116.1	134.9	150.6	166.2
107.5°	26.2	26.2	28.2	40.8	57.5	67.0	75.3	93.0	107.7	119.2	127.6
110°	21.9	21.9	23.0	32.4	47.0	54.4	62.7	76.3	87.8	97.3	102.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	18.8	18.8	17.8	26.2	38.7	46.0	52.3	64.8	75.3	81.5	85.8
115°	14.6	14.6	14.6	19.8	31.4	37.7	43.9	55.4	65.8	72.2	75.3
117.5°	12.6	12.6	11.5	14.6	25.1	31.4	36.6	48.1	56.5	63.8	67.0
120°	9.4	9.4	9.4	9.4	18.8	25.1	30.3	40.8	49.1	55.4	58.6
122.5°	7.3	7.3	7.3	6.2	13.6	18.8	24.1	33.4	41.8	48.1	52.3
125°	6.2	5.2	5.2	5.2	8.4	12.6	17.8	26.2	33.4	40.8	45.0
127.5°	5.2	4.2	4.2	4.2	4.2	7.3	11.5	19.8	27.2	33.4	37.7
130°	4.2	3.1	3.1	3.1	2.1	4.2	7.3	13.6	20.9	26.2	30.3
132.5°	3.1	3.1	2.1	2.1	1.0	1.0	3.1	8.4	14.6	19.8	24.1
135°	2.1	2.1	2.1	1.0	1.0	0.0	0.0	4.2	9.4	13.6	17.8
137.5°	2.1	2.1	1.0	1.0	0.0	0.0	0.0	1.0	4.2	8.4	12.6
140°	2.1	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	4.2	7.3
142.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
145°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°
0°	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9
2.5°	1502.6	1503.6	1504.6	1504.6	1503.6	1503.6	1502.6	1500.5	1498.4	1497.4
5°	1495.3	1498.4	1500.5	1500.5	1500.5	1499.4	1499.4	1498.4	1496.3	1495.3
7.5°	1489.0	1494.2	1496.3	1495.3	1495.3	1495.3	1495.3	1496.3	1494.2	1493.2
10°	1482.7	1486.9	1491.0	1492.1	1493.2	1492.1	1492.1	1490.0	1489.0	1486.9
12.5°	1476.4	1483.8	1490.0	1495.3	1495.3	1495.3	1497.4	1500.5	1499.4	1496.3
15°	1471.2	1483.8	1491.0	1499.4	1502.6	1505.7	1506.7	1508.9	1505.7	1505.7
17.5°	1468.1	1484.8	1495.3	1503.6	1504.6	1508.9	1515.1	1518.2	1517.2	1516.2
20°	1462.8	1482.7	1497.4	1504.6	1509.9	1515.1	1523.5	1525.6	1527.7	1527.7
22.5°	1456.6	1478.6	1493.2	1509.9	1518.2	1523.5	1535.0	1541.3	1543.4	1542.3
25°	1451.4	1476.4	1498.4	1518.2	1526.6	1532.9	1547.5	1559.0	1561.1	1561.1
27.5°	1446.1	1475.4	1501.5	1527.7	1538.2	1545.4	1560.1	1571.6	1575.8	1576.8
30°	1440.9	1473.3	1504.6	1530.8	1543.4	1550.6	1567.4	1577.8	1586.2	1586.2
32.5°	1431.4	1471.2	1502.6	1530.8	1541.3	1553.8	1569.5	1581.0	1587.3	1586.2
35°	1422.1	1458.6	1494.2	1522.4	1533.9	1546.5	1565.3	1578.9	1583.1	1587.3
37.5°	1406.4	1445.0	1480.6	1508.9	1525.6	1536.0	1552.8	1563.2	1571.6	1569.5
40°	1385.4	1424.2	1460.7	1487.9	1502.6	1515.1	1533.9	1543.4	1550.6	1549.6
42.5°	1355.1	1399.0	1433.6	1462.8	1478.6	1491.0	1514.1	1522.4	1530.8	1531.8
45°	1324.8	1367.7	1406.4	1437.8	1452.4	1467.0	1495.3	1511.0	1521.4	1524.6
47.5°	1288.2	1336.3	1380.2	1423.1	1444.0	1462.8	1492.1	1514.1	1525.6	1527.7
50°	1257.9	1317.5	1371.8	1422.1	1448.2	1469.1	1508.9	1535.0	1547.5	1552.8
52.5°	1240.1	1312.2	1383.4	1448.2	1479.6	1505.7	1554.9	1584.2	1605.0	1607.1
55°	1243.3	1334.2	1423.1	1503.6	1535.0	1567.4	1612.4	1639.5	1657.4	1657.4
57.5°	1274.6	1383.4	1485.8	1560.1	1591.4	1616.6	1658.4	1676.2	1688.7	1691.8
60°	1331.1	1446.1	1535.0	1599.8	1620.7	1640.6	1663.6	1683.4	1688.7	1690.8
62.5°	1386.5	1484.8	1554.9	1599.8	1612.4	1629.1	1645.8	1657.4	1661.5	1661.5
65°	1415.8	1489.0	1531.8	1565.3	1578.9	1584.2	1601.9	1606.1	1615.5	1613.4
67.5°	1398.0	1445.0	1479.6	1507.8	1518.2	1528.7	1549.6	1560.1	1568.5	1570.6
70°	1337.4	1375.0	1411.6	1447.1	1460.7	1478.6	1503.6	1523.5	1532.9	1538.2
72.5°	1263.1	1308.1	1355.1	1398.0	1420.0	1436.7	1468.1	1494.2	1503.6	1508.9
75°	1186.8	1240.1	1294.5	1346.8	1369.8	1391.8	1429.4	1454.5	1471.2	1476.4
77.5°	1110.5	1175.3	1241.2	1300.8	1329.0	1352.0	1394.9	1422.1	1441.9	1444.0
80°	1039.4	1116.7	1189.9	1253.7	1281.9	1309.1	1352.0	1383.4	1393.8	1408.5
82.5°	976.6	1057.1	1131.4	1198.3	1229.7	1253.7	1298.6	1331.1	1346.8	1355.1
85°	908.6	992.3	1067.6	1133.4	1165.8	1195.1	1237.0	1267.3	1289.3	1292.4
87.5°	839.7	923.3	1000.6	1068.6	1101.0	1128.2	1172.2	1201.4	1221.3	1227.6
90°	766.5	845.9	920.2	988.2	1015.3	1043.5	1085.4	1118.8	1139.8	1140.8
92.5°	678.6	755.0	822.9	886.7	919.1	940.0	979.8	1014.2	1028.9	1035.2
95°	566.7	636.8	701.6	755.0	787.4	806.2	844.9	870.0	886.7	890.9
97.5°	444.4	498.8	551.0	598.1	622.2	637.8	669.2	691.2	716.2	710.0
100°	334.6	365.0	402.6	432.9	450.6	461.1	484.2	498.8	513.4	521.8
102.5°	242.6	265.6	282.3	298.0	310.6	321.0	338.8	344.0	348.2	358.6
105°	177.8	189.3	198.6	210.2	215.4	218.6	225.8	231.1	231.1	240.5
107.5°	133.8	139.0	143.3	149.5	149.5	152.6	152.6	153.7	156.9	154.7
110°	105.6	106.6	107.7	106.6	107.7	106.6	105.6	104.6	104.6	103.5





TEST NUMBER: P397245

CATALOG NUMBER: 4VRVT2-LD5-11-DR100-W-UNV-LG52-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	87.8	86.8	85.8	82.6	81.5	79.4	78.4	76.3	74.2	74.2
115°	75.3	74.2	72.2	69.0	67.0	64.8	63.8	60.6	58.6	57.5
117.5°	67.0	65.8	63.8	60.6	59.6	57.5	55.4	52.3	50.2	49.1
120°	60.6	60.6	58.6	55.4	54.4	53.4	50.2	48.1	46.0	45.0
122.5°	54.4	54.4	53.4	51.2	50.2	49.1	47.0	45.0	42.9	42.9
125°	47.0	48.1	48.1	47.0	46.0	45.0	43.9	41.8	40.8	39.8
127.5°	40.8	41.8	42.9	42.9	41.8	41.8	39.8	38.7	37.7	37.7
130°	33.4	36.6	37.7	37.7	37.7	37.7	36.6	35.5	34.5	34.5
132.5°	27.2	29.3	31.4	32.4	32.4	32.4	31.4	31.4	30.3	30.3
135°	20.9	23.0	25.1	26.2	27.2	27.2	27.2	27.2	26.2	26.2
137.5°	15.7	17.8	19.8	20.9	20.9	21.9	21.9	21.9	20.9	20.9
140°	9.4	12.6	13.6	14.6	15.7	15.7	16.7	16.7	15.7	15.7
142.5°	5.2	7.3	8.4	9.4	10.5	10.5	11.5	10.5	10.5	10.5
145°	1.0	2.1	4.2	5.2	5.2	5.2	5.2	6.2	5.2	5.2
147.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)