

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213406

Luminaire Tested: 4SNLED-LD5-36SL-RW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-36SL-RW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

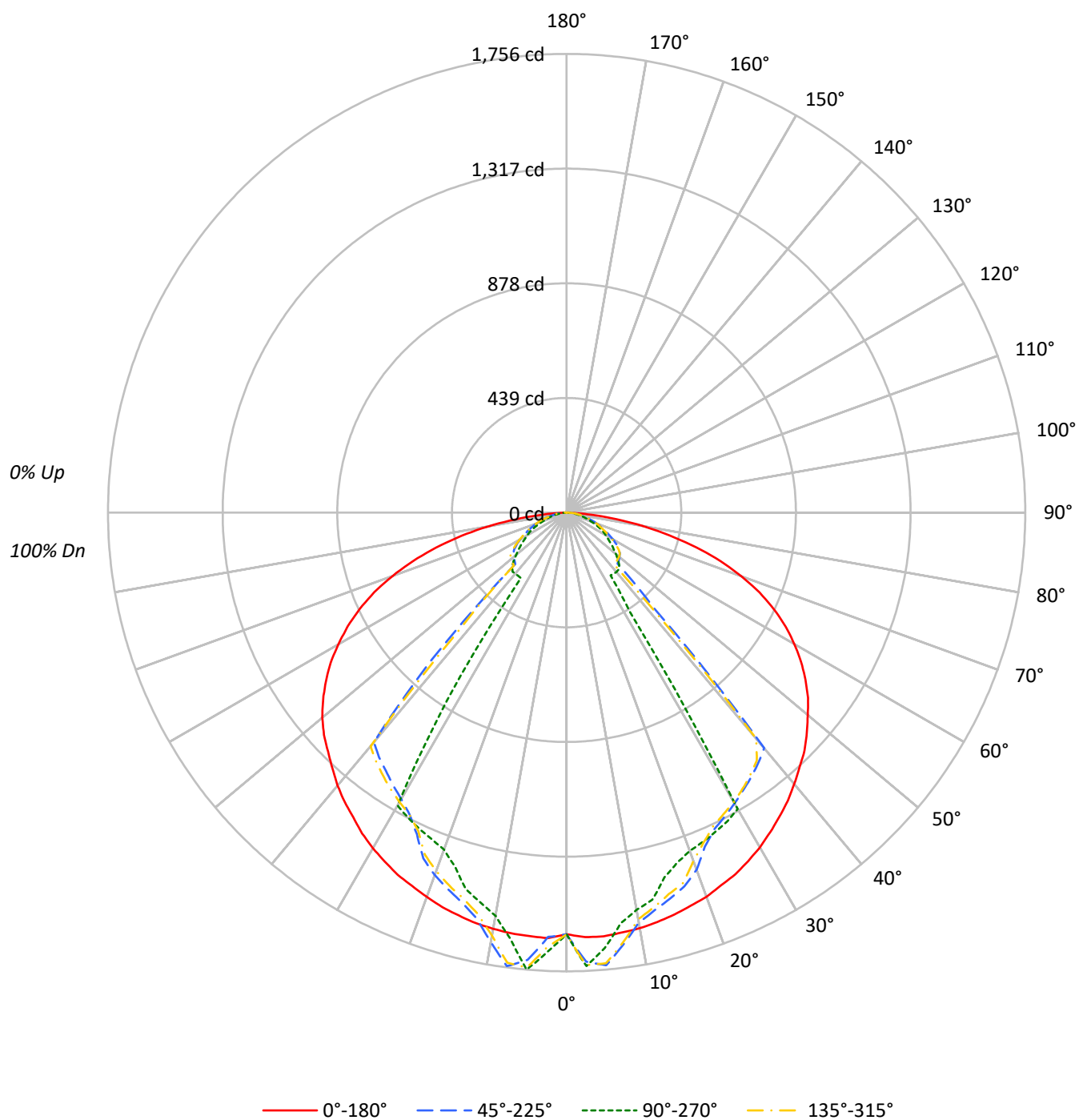
Lumens per Lamp: N/A
Luminaire Lumens: 3232.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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: 24 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
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	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13043	13043	13043	13043
5°	13170	13141	13164	13792
10°	13184	11881	13202	12063
15°	13212	10993	13243	11341
20°	13309	10426	13309	10387
25°	13423	10227	13444	10131
30°	13560	10047	13594	9927
35°	13717	2288	13746	2387
40°	13937	2379	14021	2456
45°	14271	2366	14320	2452
50°	14604	2139	14801	2198
55°	15054	1899	15174	1927
60°	15435	1688	15469	1710
65°	15707	1474	15668	1449
70°	15484	1188	15436	1145
75°	14375	914	14479	875
80°	11666	648	12136	593
85°	6319	389	6668	298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 15815 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	4.9
10°-20°	436.6	13.5
20°-30°	646.7	20.0
30°-40°	651.6	20.2
40°-50°	509.0	15.7
50°-60°	393.2	12.2
60°-70°	264.0	8.2
70°-80°	134.7	4.2
80°-90°	37.5	1.2
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°	1242.1	38.4
0°-40°	1893.7	58.6
0°-60°	2795.9	86.5
0°-90°	3232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3232.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1614	1614	1614	1614	1614	
5°	1628	1673	1627	1756	1628	155
15°	1592	1446	1596	1492	1592	450
25°	1527	1348	1530	1335	1527	705
35°	1421	293	1424	306	1421	890
45°	1288	285	1292	295	1288	993
55°	1116	207	1125	210	1116	997
65°	876	139	874	137	876	862
75°	514	70	518	67	514	538
85°	92	22	98	17	92	127
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1626.6	1632.5	1636.9	1639.9	1641.3	1641.3	1642.1	1642.8	1652.4	1656.9	1659.8
5°	1628.0	1633.9	1642.8	1654.7	1665.0	1673.9	1681.3	1691.6	1702.0	1713.1	1716.8
7.5°	1621.4	1628.8	1646.5	1668.0	1687.9	1702.0	1711.6	1718.3	1723.4	1724.2	1727.9
10°	1615.5	1628.8	1653.2	1681.3	1706.4	1723.4	1723.4	1719.8	1724.9	1705.0	1685.0
12.5°	1605.1	1619.9	1653.2	1690.2	1713.8	1720.5	1717.5	1702.7	1672.4	1648.0	1636.9
15°	1592.5	1612.5	1653.9	1695.3	1715.3	1717.5	1689.4	1651.7	1628.8	1614.0	1595.5
17.5°	1578.5	1605.1	1654.7	1696.1	1703.5	1693.1	1639.9	1616.2	1592.5	1557.8	1532.6
20°	1565.2	1591.0	1648.7	1685.7	1690.2	1643.6	1602.1	1577.0	1537.1	1506.7	1495.6
22.5°	1544.4	1574.8	1643.6	1671.7	1654.7	1600.7	1560.7	1520.8	1484.5	1475.7	1462.3
25°	1527.4	1559.2	1631.7	1654.7	1609.5	1561.5	1514.9	1468.3	1451.2	1438.7	1426.8
27.5°	1504.5	1543.7	1616.2	1623.6	1561.5	1519.3	1451.2	1430.5	1415.0	1401.0	1395.8
30°	1479.4	1527.4	1594.7	1580.7	1521.5	1459.4	1409.1	1389.9	1378.8	1364.0	1358.0
32.5°	1450.5	1503.0	1571.1	1531.1	1478.6	1401.0	1368.4	1353.6	1338.8	1327.7	1290.7
35°	1420.9	1481.6	1543.0	1483.8	1426.8	1356.6	1327.7	1314.4	1300.4	1259.7	1221.2
37.5°	1390.6	1457.9	1508.9	1432.8	1358.0	1310.7	1286.3	1271.5	1239.7	1187.9	1168.7
40°	1355.8	1429.1	1465.3	1380.2	1298.1	1264.1	1241.2	1226.4	1154.6	1131.7	1125.8
42.5°	1321.1	1401.0	1412.0	1329.2	1248.6	1214.6	1195.3	1146.5	1097.7	1085.8	1088.1
45°	1287.8	1370.6	1353.6	1256.7	1196.8	1168.7	1136.1	1068.8	1042.9	1048.9	1050.3
47.5°	1247.8	1334.4	1292.2	1184.2	1143.5	1115.4	1042.9	1002.3	998.6	1006.7	1011.1
50°	1204.9	1293.7	1227.1	1118.4	1085.8	1052.6	970.5	949.7	954.2	962.3	967.5
52.5°	1165.0	1247.8	1159.8	1057.0	1028.9	952.7	897.2	900.9	908.3	917.9	920.9
55°	1116.2	1192.4	1088.1	994.9	968.2	868.4	843.2	852.1	859.5	867.6	873.6
57.5°	1065.1	1128.7	1003.0	925.3	882.4	793.7	795.9	801.8	807.0	816.6	337.3
60°	1006.7	1056.3	909.8	861.0	775.9	734.5	736.7	747.1	752.3	420.1	232.3
62.5°	946.0	971.9	825.5	787.8	678.3	675.3	685.7	690.1	469.7	221.9	217.5
65°	876.5	871.3	742.6	682.7	611.7	614.7	625.8	603.6	207.8	207.8	206.4
67.5°	799.6	768.5	662.0	565.1	547.4	554.0	565.9	197.5	192.3	193.8	188.6
70°	711.6	667.9	578.4	478.6	484.5	491.1	190.8	179.0	176.8	173.1	162.7
72.5°	618.4	558.5	473.4	415.7	419.4	263.3	167.2	161.2	153.9	146.5	135.4
75°	514.1	436.4	347.6	347.6	352.8	150.2	145.7	136.1	128.0	118.3	111.7
77.5°	403.1	335.8	270.0	280.3	136.8	125.7	117.6	107.3	100.6	94.7	91.0
80°	295.1	234.5	203.4	182.0	106.5	95.4	87.3	81.4	78.4	74.7	70.3
82.5°	193.8	141.3	141.3	85.8	74.7	65.8	63.6	59.2	56.2	54.0	51.8
85°	92.5	82.1	62.1	52.5	46.6	42.2	40.7	38.5	38.5	37.7	37.0
87.5°	34.0	37.0	27.4	26.6	25.1	24.4	25.1	25.1	25.9	25.1	24.4
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1667.2	1673.2	1677.6	1685.0	1694.6	1702.7	1710.1	1720.5	1736.8	1741.2	1744.9
5°	1716.8	1719.0	1724.2	1730.1	1731.6	1735.3	1734.5	1739.0	1741.2	1746.4	1735.3
7.5°	1719.8	1707.9	1693.9	1681.3	1672.4	1664.3	1659.1	1667.2	1671.7	1675.4	1664.3
10°	1657.6	1643.6	1635.4	1628.0	1619.2	1606.6	1589.6	1593.3	1591.8	1591.8	1588.1
12.5°	1618.4	1598.4	1577.7	1559.2	1551.1	1550.4	1551.1	1559.2	1559.2	1558.5	1554.1
15°	1557.0	1537.8	1527.4	1523.0	1523.0	1520.8	1520.8	1529.7	1527.4	1527.4	1525.2
17.5°	1516.3	1503.0	1495.6	1490.5	1488.2	1491.9	1496.4	1500.1	1500.8	1497.8	1486.0
20°	1483.1	1470.5	1461.6	1463.1	1462.3	1464.6	1466.8	1454.2	1438.7	1418.0	1408.3
22.5°	1448.3	1438.7	1432.0	1432.0	1423.1	1409.1	1388.4	1383.9	1381.7	1372.1	1364.0
25°	1415.0	1403.9	1394.3	1364.7	1346.2	1348.4	1344.7	1337.3	1336.6	1335.9	1338.8
27.5°	1381.7	1352.9	1315.9	1311.4	1304.1	1303.3	1307.8	1311.4	1311.4	1314.4	1318.1
30°	1312.9	1279.6	1273.0	1264.8	1267.8	1278.2	1280.4	1285.6	1287.0	1292.2	1295.2
32.5°	1250.1	1235.3	1229.3	1233.0	1242.7	1251.5	1256.7	1258.9	1262.6	1267.1	1270.8
35°	1199.0	1194.6	1199.8	1207.9	1217.5	1224.9	1229.3	1233.8	1237.5	1241.2	1244.1
37.5°	1161.3	1164.3	1171.7	1182.0	1191.6	1197.5	1201.2	1206.4	1211.6	1216.0	1198.3
40°	1125.8	1133.2	1141.3	1152.4	1160.6	1166.5	1170.2	1176.8	1132.4	512.6	281.1
42.5°	1094.7	1102.9	1108.8	1117.7	1126.5	1131.0	1098.4	490.4	277.4	275.9	279.6
45°	1057.0	1063.7	1073.3	1079.9	1088.1	714.5	272.9	275.9	271.5	274.4	275.9
47.5°	1018.5	1028.9	1034.1	986.7	293.7	271.5	268.5	271.5	268.5	272.2	270.0
50°	974.9	987.5	702.7	265.5	263.3	261.8	264.8	263.3	265.5	268.5	262.6
52.5°	930.5	576.2	257.4	255.9	257.4	255.9	261.1	257.4	258.1	255.2	247.8
55°	315.1	249.3	247.1	246.3	250.8	250.8	250.8	244.8	241.1	233.7	228.6
57.5°	241.1	241.1	240.4	241.1	239.7	238.2	231.5	226.3	221.2	210.8	207.8
60°	228.6	228.6	228.6	228.6	221.9	218.9	208.6	204.2	195.3	190.1	187.1
62.5°	218.2	216.7	210.1	207.8	200.5	192.3	186.4	182.0	173.1	170.1	167.9
65°	203.4	198.2	190.1	181.2	177.5	168.6	165.7	159.0	154.6	152.4	150.9
67.5°	179.0	171.6	164.9	159.0	152.4	149.4	145.7	140.5	137.6	136.1	134.6
70°	153.1	147.9	141.3	137.6	133.1	130.9	125.7	124.3	122.0	119.8	117.6
72.5°	128.0	125.0	122.0	116.9	115.4	113.9	108.7	105.8	102.8	99.9	98.4
75°	107.3	105.0	103.6	99.1	96.9	92.5	88.8	86.5	84.3	82.1	80.6
77.5°	88.0	86.5	82.1	79.1	77.7	74.0	72.5	73.2	71.7	68.8	67.3
80°	68.8	67.3	63.6	63.6	62.1	60.7	59.2	57.7	56.2	54.0	52.5
82.5°	52.5	51.0	49.6	48.1	46.6	45.9	45.1	43.6	42.2	40.7	39.9
85°	37.0	36.2	35.5	34.8	34.0	33.3	32.5	31.1	29.6	28.8	28.1
87.5°	25.1	24.4	23.7	22.9	22.2	21.5	20.7	20.0	18.5	17.8	17.0
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1744.9	1748.6	1744.9	1736.8	1731.6	1729.4	1733.8	1733.8	1736.8	1740.5	1741.2
5°	1717.5	1708.7	1698.3	1687.9	1682.8	1679.8	1671.7	1673.2	1675.4	1676.9	1678.3
7.5°	1649.5	1637.6	1623.6	1610.3	1605.1	1600.7	1591.0	1591.0	1591.0	1591.8	1596.2
10°	1580.0	1574.8	1568.9	1560.0	1553.3	1551.1	1543.0	1545.2	1543.7	1545.9	1551.1
12.5°	1547.4	1541.5	1536.3	1527.4	1520.0	1517.1	1513.4	1515.6	1514.9	1518.6	1523.0
15°	1517.8	1514.9	1508.9	1502.3	1495.6	1489.7	1476.4	1472.0	1469.0	1465.3	1470.5
17.5°	1469.0	1448.3	1434.2	1423.9	1416.5	1411.3	1407.6	1407.6	1409.8	1412.0	1416.5
20°	1402.4	1396.5	1389.9	1378.8	1371.4	1368.4	1366.2	1366.2	1369.9	1372.8	1381.0
22.5°	1356.6	1355.8	1353.6	1348.4	1344.7	1344.7	1345.5	1347.0	1352.1	1356.6	1364.7
25°	1335.1	1338.1	1336.6	1333.6	1331.4	1332.2	1330.7	1332.2	1337.3	1341.8	1348.4
27.5°	1318.1	1322.5	1321.1	1316.6	1312.9	1314.4	1316.6	1315.1	1319.6	1324.8	1329.9
30°	1295.2	1295.9	1298.9	1293.7	1292.2	1294.4	1295.2	1296.7	1301.1	1304.8	1309.2
32.5°	1269.3	1275.2	1274.5	1269.3	1269.3	1271.5	1272.2	1222.7	1130.2	973.4	930.5
35°	1244.1	1250.8	1239.7	1045.2	723.4	386.1	298.1	287.7	290.0	291.4	292.9
37.5°	920.2	436.4	278.1	280.3	282.6	284.8	287.0	289.2	291.4	293.7	294.4
40°	276.6	275.9	278.1	281.1	283.3	284.8	287.7	290.0	292.2	294.4	295.1
42.5°	273.7	275.2	277.4	280.3	283.3	286.3	288.5	291.4	292.9	294.4	295.1
45°	272.2	275.2	278.1	280.3	282.6	284.0	285.5	286.3	285.5	285.5	287.0
47.5°	270.0	272.9	273.7	272.9	273.7	272.9	272.9	272.9	270.7	270.0	270.0
50°	261.8	261.8	260.4	257.4	256.7	255.9	254.4	253.7	250.8	250.0	250.0
52.5°	244.8	244.1	241.9	238.2	236.7	235.2	234.5	233.7	230.8	229.3	230.0
55°	224.9	223.4	221.2	216.7	216.0	214.5	213.8	213.0	210.1	211.5	209.3
57.5°	206.4	203.4	200.5	199.7	196.8	196.0	195.3	194.5	192.3	193.1	191.6
60°	184.2	183.4	182.0	179.0	179.0	178.3	178.3	176.8	175.3	174.6	174.6
62.5°	167.9	165.7	164.2	164.2	162.0	162.0	162.0	160.5	159.0	159.8	159.0
65°	150.2	149.4	148.7	147.2	147.2	146.5	146.5	145.0	142.8	143.5	142.0
67.5°	135.4	133.9	132.4	131.7	128.7	127.2	126.5	125.7	122.8	123.5	122.0
70°	116.9	114.7	113.2	111.7	109.5	108.0	108.0	106.5	104.3	105.0	103.6
72.5°	97.6	96.2	94.7	93.9	91.7	91.0	90.2	89.5	87.3	88.0	87.3
75°	81.4	81.4	80.6	79.9	77.7	75.4	74.0	73.2	71.7	72.5	71.0
77.5°	67.3	65.8	64.4	64.4	62.1	60.7	59.2	59.2	59.2	58.4	57.7
80°	52.5	51.0	51.0	50.3	48.8	47.3	46.6	46.6	45.9	45.9	45.1
82.5°	39.9	38.5	37.7	37.7	36.2	35.5	34.8	34.0	34.0	34.0	33.3
85°	28.1	26.6	25.9	25.9	24.4	23.7	23.7	22.9	22.9	22.2	22.2
87.5°	17.0	16.3	15.5	15.5	14.1	13.3	13.3	13.3	12.6	12.6	11.8
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: P1213406

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1741.2	1741.2	1736.0	1737.5	1735.3	1738.2	1734.5	1734.5	1739.0	1739.0	1741.9
5°	1679.1	1675.4	1674.6	1673.2	1665.8	1668.7	1665.0	1661.3	1666.5	1666.5	1673.2
7.5°	1594.0	1587.3	1590.3	1585.9	1581.4	1574.8	1577.0	1574.0	1577.7	1582.9	1589.6
10°	1550.4	1544.4	1548.1	1543.7	1545.9	1536.3	1537.1	1537.8	1541.5	1543.0	1548.9
12.5°	1522.3	1520.8	1519.3	1517.8	1519.3	1514.1	1511.2	1511.9	1513.4	1514.1	1518.6
15°	1463.1	1453.5	1456.4	1446.1	1446.8	1447.6	1441.6	1447.6	1446.8	1456.4	1465.3
17.5°	1415.0	1415.0	1409.8	1405.4	1402.4	1401.7	1397.3	1400.2	1397.3	1403.2	1405.4
20°	1381.7	1381.0	1380.2	1378.0	1370.6	1371.4	1373.6	1366.9	1366.2	1365.4	1369.9
22.5°	1366.2	1366.9	1364.0	1364.0	1357.3	1358.8	1359.5	1352.1	1352.9	1350.7	1352.9
25°	1349.9	1351.4	1347.7	1347.7	1346.2	1345.5	1341.8	1343.3	1338.8	1335.1	1338.8
27.5°	1330.7	1333.6	1330.7	1332.2	1329.2	1327.7	1325.5	1324.0	1319.6	1318.8	1321.1
30°	1312.9	1314.4	1313.7	1310.0	1309.2	1304.8	1307.0	1302.6	1298.1	1298.9	1300.4
32.5°	673.1	642.8	495.6	447.5	443.1	459.3	544.4	662.8	858.8	1048.9	1185.7
35°	293.7	293.7	293.7	292.9	292.9	292.2	291.4	290.7	290.0	289.2	288.5
37.5°	295.1	295.1	295.1	295.1	294.4	293.7	293.7	292.2	291.4	290.7	290.0
40°	295.9	296.6	296.6	296.6	295.9	295.9	295.1	293.7	292.9	291.4	290.0
42.5°	295.1	295.9	295.9	295.1	295.1	294.4	294.4	293.7	292.9	292.2	291.4
45°	285.5	286.3	284.8	284.8	284.0	284.0	284.0	284.0	284.0	284.8	284.8
47.5°	268.5	268.5	267.8	267.0	267.0	266.3	267.0	266.3	267.8	268.5	270.0
50°	248.5	248.5	247.1	246.3	246.3	246.3	246.3	247.1	247.8	249.3	250.8
52.5°	227.8	227.8	227.1	226.3	225.6	225.6	227.8	227.1	227.8	228.6	230.8
55°	207.8	208.6	207.1	207.1	206.4	206.4	206.4	207.1	207.8	208.6	210.8
57.5°	190.8	190.8	189.4	189.4	189.4	188.6	190.8	189.4	190.1	190.8	192.3
60°	173.8	173.1	173.1	172.3	172.3	172.3	173.8	173.1	173.1	173.8	175.3
62.5°	158.3	158.3	157.6	157.6	156.8	156.8	158.3	157.6	157.6	158.3	159.0
65°	140.5	140.5	139.8	139.1	141.3	139.1	141.3	139.8	141.3	142.0	143.5
67.5°	120.6	120.6	120.6	119.8	119.8	121.3	122.0	120.6	121.3	122.8	123.5
70°	102.8	102.8	102.1	102.1	102.1	103.6	104.3	102.8	103.6	104.3	105.8
72.5°	87.3	85.8	85.8	85.1	86.5	86.5	87.3	86.5	87.3	87.3	88.8
75°	71.7	70.3	70.3	70.3	71.7	71.0	71.7	71.0	71.7	71.7	72.5
77.5°	57.7	57.0	56.2	56.2	57.7	57.7	57.7	57.0	57.7	58.4	59.2
80°	45.1	44.4	43.6	43.6	45.1	45.1	45.1	45.9	45.1	45.9	46.6
82.5°	33.3	32.5	31.8	33.3	33.3	33.3	33.3	34.0	33.3	34.0	34.8
85°	22.2	21.5	20.7	22.2	22.2	22.2	22.2	22.9	22.2	22.9	23.7
87.5°	11.8	11.1	11.1	11.8	11.8	11.8	12.6	12.6	12.6	13.3	13.3
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: P1213406

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1746.4	1748.6	1747.9	1743.4	1739.0	1733.8	1730.1	1730.8	1738.2	1740.5	1733.8
5°	1673.2	1687.2	1687.2	1696.8	1691.6	1687.2	1690.2	1706.4	1714.6	1727.1	1731.6
7.5°	1597.7	1604.4	1603.6	1613.2	1611.8	1611.8	1614.0	1635.4	1645.8	1656.1	1659.1
10°	1555.5	1562.2	1561.5	1562.2	1560.0	1554.8	1554.8	1564.4	1573.3	1578.5	1580.0
12.5°	1525.2	1528.9	1528.2	1528.2	1526.7	1522.3	1521.5	1529.7	1539.3	1545.9	1546.7
15°	1480.1	1490.5	1492.7	1502.3	1500.1	1494.1	1495.6	1502.3	1508.2	1514.1	1511.9
17.5°	1412.8	1418.0	1418.7	1422.4	1420.9	1420.9	1429.8	1454.2	1470.5	1484.5	1486.0
20°	1374.3	1378.0	1376.5	1384.7	1381.0	1380.2	1382.5	1392.8	1400.2	1406.9	1418.7
22.5°	1355.8	1358.8	1356.6	1357.3	1350.7	1344.7	1343.3	1351.4	1359.5	1368.4	1368.4
25°	1340.3	1342.5	1341.8	1340.3	1335.1	1327.0	1325.5	1327.0	1329.9	1330.7	1325.5
27.5°	1321.8	1323.3	1323.3	1324.0	1317.4	1310.0	1308.5	1307.0	1310.0	1309.2	1301.1
30°	1302.6	1300.4	1301.1	1301.8	1295.9	1289.3	1286.3	1285.6	1288.5	1287.8	1279.6
32.5°	1256.7	1273.7	1275.2	1276.7	1271.5	1265.6	1262.6	1260.4	1261.9	1261.2	1253.8
35°	287.7	292.9	358.7	812.2	1102.9	1221.2	1233.8	1230.8	1231.6	1231.6	1225.6
37.5°	288.5	287.7	287.0	284.8	282.6	281.1	486.0	1036.3	1200.5	1201.2	1196.1
40°	288.5	287.7	287.0	285.5	282.6	280.3	276.6	273.7	280.3	616.9	1128.7
42.5°	290.0	288.5	287.0	285.5	282.6	279.6	276.6	272.9	275.2	273.7	270.0
45°	285.5	284.8	284.8	284.0	282.6	279.6	275.9	271.5	269.2	271.5	267.8
47.5°	271.5	272.2	274.4	275.2	275.2	275.9	273.7	270.7	267.0	269.2	264.8
50°	252.2	253.7	254.4	258.1	259.6	262.6	263.3	263.3	262.6	265.5	262.6
52.5°	231.5	233.0	236.7	238.2	239.7	244.1	245.6	247.8	249.3	253.7	256.7
55°	211.5	212.3	213.8	216.7	218.9	222.6	224.9	227.1	230.8	233.0	241.9
57.5°	193.1	193.8	196.8	197.5	199.0	201.9	204.2	207.1	210.1	211.5	221.9
60°	175.3	176.0	178.3	179.0	179.7	182.7	184.9	187.1	189.4	190.8	198.2
62.5°	159.8	159.8	162.0	162.0	162.7	164.9	166.4	167.9	170.1	170.9	174.6
65°	144.2	145.0	146.5	146.5	147.2	148.7	149.4	150.2	152.4	152.4	155.3
67.5°	125.0	125.7	128.0	129.4	130.2	133.1	133.9	134.6	136.1	136.8	138.3
70°	106.5	107.3	109.5	110.2	111.0	113.2	114.7	116.9	119.1	121.3	122.8
72.5°	89.5	90.2	92.5	92.5	94.7	95.4	96.9	97.6	99.9	101.3	103.6
75°	73.2	74.0	76.2	76.2	78.4	79.1	79.9	80.6	82.1	83.6	85.1
77.5°	59.9	59.9	62.9	64.4	65.8	65.8	66.6	66.6	66.6	67.3	68.8
80°	47.3	47.3	49.6	51.0	52.5	52.5	53.3	54.0	54.7	54.7	55.5
82.5°	35.5	35.5	37.7	38.5	39.9	39.9	39.9	40.7	41.4	40.7	42.2
85°	24.4	24.4	25.9	26.6	28.1	28.1	28.1	28.8	29.6	28.8	29.6
87.5°	14.1	14.8	15.5	16.3	17.0	17.8	17.8	17.8	18.5	18.5	19.2
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: P1213406

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1726.4	1717.5	1716.8	1706.4	1703.5	1704.2	1696.1	1693.1	1679.8	1676.9	1662.8
5°	1733.1	1737.5	1735.3	1734.5	1736.8	1735.3	1729.4	1726.4	1724.2	1718.3	1706.4
7.5°	1659.8	1662.8	1665.0	1674.6	1682.8	1696.8	1711.6	1721.2	1728.6	1730.1	1720.5
10°	1585.1	1599.2	1608.8	1623.6	1635.4	1643.6	1652.4	1660.6	1682.0	1703.5	1716.1
12.5°	1546.7	1550.4	1549.6	1557.8	1565.9	1587.3	1608.1	1619.9	1636.2	1645.8	1668.7
15°	1514.1	1514.9	1517.1	1523.0	1527.4	1534.8	1544.4	1562.2	1594.7	1609.5	1622.1
17.5°	1484.5	1484.5	1486.0	1491.2	1497.1	1503.8	1509.7	1517.1	1533.4	1557.8	1588.8
20°	1437.2	1457.9	1460.1	1459.4	1462.3	1474.9	1476.4	1489.7	1497.8	1507.5	1537.8
22.5°	1366.9	1379.5	1397.3	1424.6	1435.0	1440.9	1445.3	1451.2	1463.8	1474.9	1487.5
25°	1328.5	1336.6	1341.8	1349.9	1371.4	1406.1	1412.8	1419.4	1427.6	1435.7	1451.2
27.5°	1294.4	1293.7	1297.4	1304.8	1310.7	1329.2	1361.7	1387.6	1389.1	1401.0	1414.3
30°	1270.0	1265.6	1260.4	1258.9	1267.1	1276.7	1286.3	1327.0	1355.1	1361.0	1375.1
32.5°	1247.1	1239.7	1232.3	1226.4	1221.2	1229.3	1235.3	1253.0	1289.3	1323.3	1330.7
35°	1219.0	1211.6	1202.7	1196.1	1187.9	1187.2	1186.4	1203.5	1215.3	1256.0	1291.5
37.5°	1190.1	1182.0	1174.6	1167.2	1159.1	1153.2	1149.5	1153.9	1165.0	1182.7	1241.9
40°	1159.8	1150.2	1142.8	1136.9	1125.8	1121.4	1114.0	1111.0	1111.7	1127.3	1158.3
42.5°	693.1	1105.1	1108.8	1102.1	1092.5	1086.6	1078.5	1074.8	1067.4	1074.8	1092.5
45°	267.0	270.0	808.5	1068.1	1056.3	1048.9	1041.5	1037.8	1029.6	1023.7	1040.0
47.5°	261.8	264.8	258.9	366.9	1008.2	1010.4	1001.5	997.8	989.7	985.3	980.8
50°	258.1	260.4	255.9	257.4	252.2	923.9	960.8	956.4	947.5	942.3	933.5
52.5°	254.4	254.4	251.5	247.8	246.3	247.1	777.4	914.2	903.9	898.7	886.9
55°	242.6	244.1	247.1	241.1	239.7	238.9	236.7	740.4	855.8	849.9	839.5
57.5°	224.9	227.8	236.0	234.5	234.5	228.6	227.1	227.1	687.2	800.3	790.0
60°	204.2	207.1	216.0	218.9	221.2	219.7	218.2	217.5	214.5	724.1	737.5
62.5°	182.7	185.7	188.6	198.2	201.2	204.9	209.3	207.1	204.2	204.2	682.0
65°	159.8	164.2	165.7	174.6	178.3	184.9	188.6	193.8	192.3	191.6	195.3
67.5°	139.8	145.0	145.7	149.4	156.1	159.0	163.5	173.1	177.5	179.0	180.5
70°	122.8	125.7	128.0	129.4	133.9	134.6	142.8	149.4	156.1	163.5	165.7
72.5°	105.8	108.0	112.4	111.0	112.4	115.4	119.8	124.3	130.9	141.3	147.9
75°	86.5	88.0	91.0	92.5	95.4	97.6	100.6	104.3	110.2	115.4	124.3
77.5°	69.5	70.3	72.5	73.2	76.2	78.4	83.6	85.8	89.5	93.2	98.4
80°	56.2	56.2	57.0	57.0	59.2	61.4	65.1	67.3	71.7	74.7	74.7
82.5°	42.9	42.9	45.1	45.1	46.6	46.6	48.8	48.8	51.0	52.5	54.0
85°	30.3	31.1	32.5	31.8	33.3	32.5	34.0	35.5	36.2	35.5	34.8
87.5°	20.0	20.0	21.5	20.7	21.5	21.5	22.9	22.9	23.7	23.7	22.9
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: P1213406

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1657.6	1646.5	1639.9	1631.7	1629.5	1627.3	1630.3	1630.3	1625.8	1622.1	1615.5
5°	1696.1	1684.2	1671.7	1658.4	1645.8	1632.5	1627.3	1626.6	1618.4	1614.0	1611.8
7.5°	1716.1	1710.1	1696.1	1677.6	1658.4	1634.7	1624.3	1618.4	1610.3	1608.8	1608.8
10°	1718.3	1711.6	1704.2	1690.9	1668.7	1637.6	1617.7	1605.8	1598.4	1603.6	1613.2
12.5°	1696.8	1709.4	1702.7	1693.9	1676.1	1638.4	1609.5	1591.8	1589.6	1602.9	1628.0
15°	1642.1	1679.1	1697.6	1688.7	1674.6	1636.9	1596.2	1575.5	1575.5	1602.9	1635.4
17.5°	1600.7	1629.5	1674.6	1682.0	1665.8	1633.9	1583.7	1559.2	1565.9	1605.8	1640.6
20°	1566.6	1584.4	1628.0	1669.5	1653.9	1627.3	1565.2	1540.0	1553.3	1601.4	1648.0
22.5°	1513.4	1548.9	1575.5	1636.9	1642.1	1614.7	1546.7	1516.3	1543.0	1601.4	1644.3
25°	1461.6	1504.5	1532.6	1592.5	1624.3	1599.2	1529.7	1491.2	1531.9	1599.2	1641.3
27.5°	1425.4	1445.3	1496.4	1539.3	1597.7	1578.5	1506.7	1463.8	1517.8	1587.3	1624.3
30°	1386.9	1400.2	1450.5	1491.2	1562.2	1554.8	1483.1	1433.5	1500.1	1576.3	1580.0
32.5°	1344.7	1359.5	1385.4	1444.6	1512.6	1532.6	1456.4	1403.2	1480.8	1559.2	1528.2
35°	1301.8	1312.9	1333.6	1397.3	1454.9	1499.3	1423.9	1368.4	1467.5	1533.4	1478.6
37.5°	1258.9	1270.8	1288.5	1341.8	1394.3	1468.3	1395.8	1333.6	1443.1	1487.5	1426.8
40°	1218.2	1224.9	1243.4	1276.7	1344.0	1436.5	1364.0	1297.4	1418.0	1429.1	1356.6
42.5°	1143.5	1176.8	1193.8	1220.5	1287.0	1392.8	1327.0	1258.9	1389.9	1370.6	1286.3
45°	1062.9	1135.4	1142.8	1169.4	1236.7	1346.2	1292.2	1221.2	1363.2	1320.3	1219.7
47.5°	997.1	1049.6	1092.5	1114.7	1176.8	1291.5	1259.7	1189.4	1323.3	1256.7	1154.6
50°	938.7	966.8	1044.4	1060.7	1105.1	1225.6	1221.2	1152.4	1267.8	1176.8	1091.0
52.5°	881.7	901.7	971.9	1006.7	1042.9	1154.6	1175.3	1116.2	1207.2	1096.9	1026.7
55°	832.1	838.8	877.3	950.5	983.0	1082.9	1125.1	1074.0	1130.2	1020.8	964.5
57.5°	781.1	775.2	803.3	897.2	920.9	1009.7	1071.8	1031.1	1068.1	943.1	900.2
60°	727.8	719.7	731.5	793.7	855.1	937.2	1008.9	983.8	992.6	866.2	828.4
62.5°	672.4	664.2	660.5	699.7	790.7	862.5	945.3	931.3	900.2	795.9	739.7
65°	614.7	606.5	600.6	616.2	719.7	765.6	874.3	870.6	798.9	721.9	622.8
67.5°	187.1	551.8	539.2	538.5	606.5	677.5	797.4	791.5	696.8	642.8	536.3
70°	168.6	447.5	475.6	469.0	498.5	588.0	709.4	704.9	597.7	515.6	474.1
72.5°	154.6	158.3	420.1	412.7	419.4	500.0	617.6	605.8	506.7	406.8	409.8
75°	132.4	139.1	145.0	348.4	339.5	414.2	517.8	499.3	417.9	335.8	342.5
77.5°	108.0	116.1	120.6	253.7	274.4	295.1	413.5	389.1	287.7	268.5	128.0
80°	80.6	87.3	94.7	101.3	208.6	206.4	307.0	282.6	200.5	167.2	99.9
82.5°	59.2	61.4	65.8	73.2	82.8	138.3	197.5	173.8	139.1	76.2	68.8
85°	37.0	39.9	42.2	44.4	50.3	82.8	97.6	77.7	58.4	46.6	43.6
87.5°	23.7	23.7	22.9	23.7	24.4	29.6	33.3	31.8	25.1	23.7	23.7
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: P1213406

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1608.1	1597.7	1597.7	1594.7	1597.0	1597.0	1596.2	1597.0	1602.1	1605.1	1610.3
5°	1607.3	1604.4	1611.0	1619.2	1628.8	1640.6	1643.6	1653.9	1663.5	1676.1	1689.4
7.5°	1616.9	1627.3	1639.9	1653.2	1672.4	1686.5	1699.0	1711.6	1720.5	1732.3	1739.7
10°	1631.0	1651.7	1673.2	1690.2	1710.9	1722.7	1730.8	1732.3	1719.8	1699.8	1683.5
12.5°	1651.0	1675.4	1695.3	1711.6	1721.2	1716.8	1693.1	1668.7	1654.7	1633.9	1605.1
15°	1668.0	1690.2	1710.9	1704.2	1678.3	1653.9	1635.4	1606.6	1578.5	1559.2	1546.7
17.5°	1675.4	1696.8	1689.4	1654.7	1630.3	1602.1	1564.4	1542.2	1523.7	1508.9	1501.5
20°	1679.8	1676.1	1636.2	1611.0	1563.7	1537.8	1513.4	1492.7	1478.6	1471.2	1469.7
22.5°	1668.0	1622.9	1588.8	1543.7	1508.9	1487.5	1468.3	1451.2	1441.6	1435.7	1432.0
25°	1628.8	1576.3	1526.0	1490.5	1460.9	1442.4	1427.6	1413.5	1401.7	1398.7	1391.3
27.5°	1574.0	1531.1	1464.6	1437.2	1411.3	1402.4	1386.2	1372.1	1361.7	1352.9	1329.2
30°	1528.9	1460.9	1412.8	1387.6	1372.1	1361.7	1343.3	1328.5	1310.7	1278.2	1264.8
32.5°	1473.4	1406.1	1360.3	1346.2	1327.0	1318.1	1297.4	1264.8	1237.5	1224.2	1223.4
35°	1401.7	1346.2	1312.9	1300.4	1284.8	1270.0	1227.1	1197.5	1184.2	1185.7	1196.8
37.5°	1341.8	1292.2	1270.8	1253.0	1235.3	1197.5	1161.3	1147.2	1150.9	1158.3	1163.5
40°	1281.1	1243.4	1219.0	1204.9	1165.0	1128.0	1108.8	1114.0	1120.6	1125.8	1132.4
42.5°	1221.9	1195.3	1170.9	1143.5	1088.8	1068.8	1073.3	1079.9	1085.8	1093.2	1099.9
45°	1165.7	1142.1	1114.0	1051.8	1024.5	1029.6	1036.3	1041.5	1050.3	1055.5	1062.2
47.5°	1112.5	1087.3	1037.8	983.0	980.1	990.4	996.3	1003.0	1009.7	996.3	549.6
50°	1052.6	1026.7	951.2	930.5	937.2	946.8	954.2	960.8	855.8	340.3	261.8
52.5°	993.4	927.6	879.5	885.4	892.1	903.1	908.3	674.6	268.5	255.9	256.7
55°	927.6	843.2	829.2	836.6	842.5	853.6	565.9	247.8	246.3	245.6	251.5
57.5°	824.0	773.0	778.9	786.3	792.2	559.2	241.1	239.7	240.4	241.1	241.9
60°	731.5	720.4	727.1	733.8	519.3	233.0	228.6	229.3	232.3	230.0	224.1
62.5°	658.3	667.2	673.8	590.3	221.2	218.9	221.2	218.9	213.8	210.1	202.7
65°	602.1	611.0	616.2	207.8	207.1	210.1	207.8	200.5	192.3	182.0	179.7
67.5°	542.9	551.8	197.5	192.3	195.3	191.6	182.7	173.8	167.9	159.0	155.3
70°	481.5	206.4	179.0	178.3	173.1	167.2	157.6	148.7	141.3	137.6	133.9
72.5°	347.6	163.5	161.2	155.3	146.5	138.3	130.2	125.0	121.3	119.1	116.9
75°	145.0	142.0	135.4	125.0	116.1	112.4	106.5	102.8	101.3	96.9	95.4
77.5°	121.3	115.4	105.8	98.4	93.2	91.0	86.5	82.1	79.9	79.1	76.2
80°	93.2	85.1	80.6	76.9	75.4	70.3	65.1	62.9	61.4	60.7	58.4
82.5°	63.6	60.7	57.7	52.5	52.5	50.3	48.1	46.6	45.1	45.1	43.6
85°	41.4	39.2	38.5	36.2	36.2	34.8	34.0	33.3	32.5	31.8	31.1
87.5°	23.7	23.7	24.4	23.7	23.7	22.9	22.2	21.5	20.7	20.7	19.2
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: P1213406

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1616.9	1624.3	1625.8	1651.0	1665.0	1664.3	1659.8	1673.2	1665.0	1660.6	1665.0
5°	1702.7	1711.6	1719.0	1746.4	1756.0	1760.4	1759.7	1767.1	1761.2	1756.0	1756.0
7.5°	1744.9	1747.9	1750.8	1744.2	1739.7	1732.3	1721.2	1705.0	1696.8	1687.9	1676.9
10°	1675.4	1665.8	1669.5	1656.1	1645.0	1636.9	1626.6	1613.2	1602.1	1594.0	1581.4
12.5°	1590.3	1589.6	1591.0	1593.3	1582.2	1575.5	1567.4	1557.8	1549.6	1540.7	1530.4
15°	1538.5	1539.3	1545.2	1543.0	1539.3	1535.6	1526.7	1523.7	1516.3	1506.7	1500.8
17.5°	1501.5	1505.2	1511.2	1508.2	1502.3	1498.6	1491.9	1485.3	1478.6	1471.2	1462.3
20°	1469.0	1472.7	1476.4	1472.7	1461.6	1456.4	1447.6	1426.8	1412.0	1397.3	1383.9
22.5°	1433.5	1435.7	1432.8	1420.9	1392.8	1379.5	1369.1	1363.2	1350.7	1342.5	1334.4
25°	1389.1	1376.5	1357.3	1344.0	1332.9	1327.0	1322.5	1321.8	1320.3	1318.8	1315.1
27.5°	1316.6	1312.2	1301.8	1296.7	1297.4	1299.6	1300.4	1302.6	1300.4	1297.4	1294.4
30°	1262.6	1264.8	1265.6	1267.1	1270.8	1273.0	1273.7	1276.7	1275.2	1273.0	1271.5
32.5°	1228.6	1233.8	1236.7	1241.2	1243.4	1247.1	1247.1	1251.5	1247.1	1246.4	1244.9
35°	1200.5	1204.9	1206.4	1213.1	1215.3	1219.0	1219.0	1222.7	1219.0	1181.3	932.7
37.5°	1172.4	1176.8	1179.8	1185.7	1186.4	1188.7	1096.9	802.6	517.8	400.9	306.2
40°	1139.1	1144.3	1147.2	1149.5	807.7	512.6	352.8	287.0	287.0	289.2	291.4
42.5°	1103.6	1107.3	771.5	449.0	279.6	278.9	281.1	283.3	285.5	288.5	291.4
45°	867.6	437.9	278.1	271.5	273.7	276.6	279.6	282.6	286.3	289.2	290.7
47.5°	284.8	267.0	270.7	267.8	271.5	275.2	278.1	281.1	281.8	282.6	281.8
50°	263.3	263.3	265.5	265.5	268.5	270.0	270.0	270.0	267.0	266.3	264.1
52.5°	254.4	260.4	257.4	258.9	257.4	255.2	253.0	250.8	246.3	244.8	241.9
55°	250.0	252.2	244.8	242.6	239.7	233.7	230.8	227.8	224.1	222.6	218.9
57.5°	239.7	234.5	226.3	222.6	217.5	211.5	208.6	206.4	202.7	201.2	199.0
60°	220.4	210.1	204.9	200.5	194.5	189.4	187.1	185.7	182.7	182.0	179.7
62.5°	196.8	187.9	183.4	177.5	173.1	170.1	167.9	167.2	164.2	164.2	162.7
65°	170.9	166.4	162.7	156.8	154.6	151.6	150.9	150.2	148.7	147.9	146.5
67.5°	150.2	147.2	142.0	139.1	137.6	135.4	133.9	132.4	129.4	128.0	125.7
70°	131.7	129.4	124.3	122.0	119.1	115.4	113.2	111.7	109.5	108.0	105.8
72.5°	113.9	107.3	103.6	101.3	99.1	95.4	94.7	93.2	91.0	90.2	88.0
75°	91.7	86.5	84.3	82.8	80.6	78.4	78.4	78.4	76.2	75.4	74.7
77.5°	73.2	70.3	68.8	67.3	66.6	65.1	62.9	62.1	59.9	59.9	59.2
80°	56.2	54.7	53.3	52.5	51.8	50.3	48.8	48.1	45.9	45.9	45.1
82.5°	41.4	40.7	39.9	39.2	38.5	37.7	35.5	34.8	33.3	33.3	32.5
85°	29.6	28.8	27.4	26.6	26.6	25.9	23.7	22.9	21.5	21.5	21.5
87.5°	18.5	17.8	17.0	16.3	15.5	14.8	13.3	12.6	12.6	11.1	10.4
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: P1213406

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1656.1	1668.7	1667.2	1676.1	1678.3	1682.8	1684.2	1685.0	1673.9	1682.8	1683.5
5°	1753.8	1756.0	1757.5	1761.2	1764.9	1765.6	1761.9	1757.5	1759.0	1756.0	1748.6
7.5°	1675.4	1664.3	1662.1	1659.1	1657.6	1656.1	1649.5	1655.4	1648.7	1645.8	1635.4
10°	1579.2	1568.9	1568.1	1568.1	1570.3	1569.6	1568.1	1565.2	1571.1	1567.4	1565.2
12.5°	1528.9	1525.2	1527.4	1526.0	1531.9	1533.4	1531.9	1531.9	1530.4	1527.4	1528.9
15°	1498.6	1495.6	1497.8	1495.6	1500.1	1500.8	1497.1	1499.3	1495.6	1491.9	1490.5
17.5°	1458.6	1452.0	1446.8	1439.4	1440.2	1438.7	1434.2	1434.2	1430.5	1420.9	1421.7
20°	1381.7	1375.1	1372.1	1372.1	1375.8	1377.3	1376.5	1378.0	1374.3	1372.8	1366.9
22.5°	1333.6	1332.9	1334.4	1338.1	1344.0	1352.1	1352.9	1352.9	1352.9	1352.1	1344.7
25°	1316.6	1316.6	1318.1	1323.3	1327.7	1333.6	1335.1	1336.6	1335.1	1335.1	1328.5
27.5°	1297.4	1295.9	1298.9	1304.1	1309.2	1313.7	1317.4	1318.1	1315.9	1315.9	1318.1
30°	1273.7	1273.0	1276.7	1281.9	1286.3	1290.7	1294.4	1297.4	1294.4	1294.4	1292.2
32.5°	1249.3	1249.3	1250.8	1219.7	1131.0	1018.5	1020.8	955.7	910.5	853.6	929.0
35°	779.6	567.3	487.4	412.7	360.2	326.2	325.5	314.4	309.2	305.5	304.7
37.5°	294.4	295.9	298.8	300.3	302.5	304.0	304.7	304.7	304.7	304.7	304.0
40°	293.7	296.6	298.8	301.0	303.3	304.7	304.7	305.5	306.2	306.2	306.2
42.5°	294.4	297.4	300.3	302.5	304.0	304.7	305.5	306.2	306.2	306.2	306.2
45°	293.7	295.1	295.1	295.9	295.9	295.9	296.6	296.6	295.9	295.1	296.6
47.5°	282.6	282.6	280.3	279.6	278.9	277.4	278.1	277.4	276.6	275.9	277.4
50°	263.3	260.4	258.9	257.4	256.7	255.2	255.9	255.2	254.4	253.0	255.2
52.5°	240.4	239.7	236.7	235.2	234.5	235.2	233.7	233.0	232.3	231.5	232.3
55°	218.2	215.2	214.5	213.0	212.3	213.0	212.3	211.5	210.8	210.1	210.8
57.5°	198.2	196.0	195.3	193.8	193.8	193.8	193.8	193.1	192.3	191.6	192.3
60°	179.0	177.5	176.8	176.8	176.0	176.0	176.0	175.3	174.6	174.6	175.3
62.5°	162.7	162.7	160.5	159.8	159.8	160.5	159.8	159.0	158.3	157.6	159.0
65°	145.7	142.8	142.0	140.5	139.1	139.8	139.1	138.3	137.6	136.8	138.3
67.5°	125.0	124.3	121.3	119.8	119.1	119.8	119.1	118.3	117.6	116.9	118.3
70°	105.0	105.0	102.1	101.3	100.6	100.6	99.9	99.9	99.1	98.4	99.9
72.5°	87.3	87.3	86.5	85.1	84.3	83.6	82.8	82.1	82.1	82.8	82.8
75°	72.5	71.0	68.1	68.8	68.1	67.3	67.3	66.6	65.8	67.3	66.6
77.5°	57.0	56.2	54.0	54.7	54.0	53.3	53.3	52.5	51.8	52.5	52.5
80°	42.9	42.9	42.2	41.4	41.4	40.7	39.9	39.9	39.2	39.9	39.9
82.5°	31.1	31.1	30.3	29.6	28.8	28.8	28.1	28.1	28.1	28.1	28.1
85°	20.0	19.2	19.2	17.8	17.8	17.8	17.0	17.0	17.0	17.0	17.0
87.5°	9.6	9.6	8.9	8.9	8.1	7.4	7.4	6.7	6.7	7.4	7.4
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: P1213406

CATALOG NUMBER: 4SNLED-LD5-36SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1670.2	1679.8	1671.7	1675.4	1676.1	1688.7	1687.9	1690.9	1685.7	1679.8	1671.7
5°	1755.3	1750.8	1744.9	1759.0	1751.6	1760.4	1763.4	1769.3	1769.3	1768.6	1761.9
7.5°	1646.5	1636.9	1644.3	1649.5	1651.7	1645.8	1657.6	1670.9	1682.0	1688.7	1689.4
10°	1561.5	1564.4	1563.7	1565.9	1571.1	1570.3	1577.7	1585.1	1588.1	1592.5	1594.0
12.5°	1521.5	1520.8	1522.3	1527.4	1530.4	1529.7	1537.1	1541.5	1543.0	1543.7	1543.0
15°	1489.7	1484.5	1488.2	1489.0	1491.2	1491.2	1500.1	1506.7	1509.7	1511.2	1509.7
17.5°	1429.8	1417.2	1429.1	1429.1	1437.2	1435.7	1449.8	1460.9	1466.8	1471.2	1471.2
20°	1370.6	1364.7	1369.1	1367.7	1373.6	1372.8	1381.7	1389.1	1394.3	1398.0	1402.4
22.5°	1347.0	1348.4	1341.8	1342.5	1342.5	1341.8	1346.2	1349.9	1351.4	1353.6	1352.1
25°	1331.4	1332.9	1330.7	1327.0	1325.5	1327.0	1329.2	1333.6	1334.4	1332.9	1327.7
27.5°	1315.9	1311.4	1315.1	1308.5	1307.0	1310.0	1312.9	1313.7	1314.4	1314.4	1310.0
30°	1292.2	1288.5	1292.2	1289.3	1286.3	1289.3	1291.5	1291.5	1293.0	1293.7	1288.5
32.5°	903.1	910.5	1030.4	1102.9	1204.9	1256.7	1266.3	1266.3	1267.8	1267.8	1263.4
35°	307.7	308.4	333.6	361.7	421.6	495.6	592.5	642.8	812.9	1016.3	1213.1
37.5°	304.0	303.3	302.5	301.8	301.0	300.3	298.8	298.1	302.5	358.7	486.7
40°	305.5	304.7	303.3	302.5	301.8	300.3	299.6	298.1	296.6	295.1	293.7
42.5°	305.5	304.7	304.0	303.3	302.5	301.8	300.3	298.8	297.4	295.1	292.9
45°	295.1	295.1	295.9	295.9	296.6	296.6	296.6	295.9	295.9	295.1	292.2
47.5°	275.9	275.9	278.1	278.1	279.6	281.1	281.1	282.6	284.8	286.3	287.0
50°	253.7	253.7	255.9	256.7	258.1	260.4	262.6	263.3	265.5	268.5	271.5
52.5°	231.5	231.5	233.7	233.7	235.2	237.4	239.7	240.4	243.4	246.3	250.0
55°	210.8	210.8	212.3	213.0	213.8	215.2	217.5	217.5	220.4	222.6	226.3
57.5°	192.3	193.8	193.8	193.8	194.5	196.0	197.5	197.5	199.7	201.9	204.9
60°	174.6	176.0	176.0	176.0	176.8	177.5	179.0	179.0	180.5	182.0	184.9
62.5°	158.3	159.8	159.8	160.5	160.5	161.2	162.7	162.0	163.5	164.2	166.4
65°	137.6	139.1	139.8	140.5	141.3	142.8	145.0	144.2	146.5	147.9	150.2
67.5°	117.6	119.1	119.1	119.8	120.6	122.0	123.5	123.5	125.7	127.2	130.2
70°	99.1	100.6	100.6	101.3	102.1	103.6	105.0	104.3	106.5	108.0	110.2
72.5°	82.1	83.6	83.6	84.3	84.3	85.8	87.3	88.8	88.8	90.2	91.7
75°	66.6	67.3	68.1	68.1	68.8	69.5	71.0	72.5	73.2	74.0	75.4
77.5°	52.5	53.3	54.0	54.0	54.7	55.5	56.2	59.2	60.7	61.4	61.4
80°	39.9	40.7	40.7	40.7	41.4	42.2	43.6	43.6	46.6	46.6	47.3
82.5°	28.1	28.8	28.8	28.8	29.6	31.1	31.8	32.5	34.0	34.8	34.8
85°	17.0	17.8	17.8	17.8	18.5	19.2	20.7	21.5	22.2	22.2	22.9
87.5°	6.7	7.4	8.1	8.1	8.9	9.6	10.4	11.1	11.8	11.8	12.6
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):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1662.8	1668.0	1662.8	1665.8	1669.5	1662.8	1647.3	1641.3	1639.1	1630.3	1624.3
5°	1755.3	1755.3	1753.0	1759.0	1758.2	1747.9	1731.6	1724.2	1716.8	1707.2	1699.8
7.5°	1689.4	1695.3	1699.0	1722.0	1736.8	1738.2	1748.6	1750.8	1753.8	1750.8	1746.4
10°	1594.7	1592.5	1602.9	1624.3	1636.9	1643.6	1663.5	1673.2	1681.3	1697.6	1714.6
12.5°	1541.5	1544.4	1548.9	1564.4	1576.3	1573.3	1581.4	1588.1	1597.7	1614.0	1638.4
15°	1506.0	1508.9	1513.4	1525.2	1532.6	1528.9	1533.4	1537.8	1544.4	1552.6	1567.4
17.5°	1467.5	1472.7	1477.9	1490.5	1497.1	1496.4	1500.1	1501.5	1503.8	1508.9	1519.3
20°	1407.6	1423.9	1434.2	1451.2	1460.9	1459.4	1466.0	1468.3	1471.2	1476.4	1480.8
22.5°	1352.9	1357.3	1362.5	1381.0	1397.3	1417.2	1421.7	1427.6	1435.0	1440.2	1444.6
25°	1321.8	1318.8	1321.1	1333.6	1342.5	1344.0	1350.7	1369.9	1389.9	1398.7	1409.1
27.5°	1303.3	1300.4	1299.6	1305.5	1307.0	1303.3	1301.8	1307.8	1322.5	1337.3	1368.4
30°	1283.3	1279.6	1276.7	1281.9	1284.1	1278.9	1269.3	1264.1	1273.0	1276.7	1289.3
32.5°	1259.7	1256.0	1254.5	1257.5	1258.9	1254.5	1244.1	1238.2	1236.7	1233.8	1236.7
35°	1233.0	1229.3	1227.1	1227.9	1230.8	1227.1	1218.2	1210.9	1207.2	1199.0	1193.1
37.5°	635.4	900.2	1168.7	1196.8	1199.8	1199.0	1190.1	1182.0	1178.3	1168.7	1165.7
40°	290.7	324.7	487.4	636.9	918.7	1167.2	1159.1	1150.9	1144.3	1141.3	1130.2
42.5°	290.0	290.7	291.4	287.7	356.5	607.3	896.5	1119.1	1114.7	1107.3	1099.2
45°	290.0	286.3	289.2	284.8	286.3	285.5	355.8	574.0	1021.5	1067.4	1063.7
47.5°	287.0	284.8	287.7	284.0	279.6	281.8	278.9	282.6	440.8	747.8	1024.5
50°	273.7	275.2	280.3	279.6	275.9	278.9	273.7	278.1	274.4	301.0	579.9
52.5°	253.7	256.7	261.8	266.3	267.8	271.5	270.0	271.5	268.5	269.2	270.0
55°	230.0	233.7	238.2	244.8	247.8	253.7	258.1	260.4	264.1	263.3	257.4
57.5°	207.8	211.5	215.2	221.9	228.6	231.5	239.7	244.1	253.7	251.5	250.0
60°	187.1	190.1	193.8	195.3	203.4	208.6	216.0	220.4	233.0	236.0	240.4
62.5°	168.6	170.1	173.1	175.3	180.5	185.7	189.4	196.8	203.4	213.0	219.7
65°	151.6	153.1	155.3	156.8	157.6	164.9	167.2	175.3	177.5	187.9	193.8
67.5°	132.4	135.4	138.3	139.8	141.3	145.7	147.2	150.9	156.1	160.5	167.9
70°	112.4	114.7	117.6	119.8	122.8	125.7	130.2	132.4	136.1	139.1	145.0
72.5°	93.9	96.2	97.6	99.9	102.1	104.3	108.0	113.2	116.1	121.3	122.8
75°	76.2	78.4	79.9	81.4	83.6	85.1	86.5	91.7	94.7	99.1	103.6
77.5°	62.9	62.9	64.4	68.8	68.1	68.1	69.5	72.5	74.7	77.7	82.1
80°	48.8	49.6	50.3	54.0	54.7	55.5	54.7	57.0	59.2	59.9	62.9
82.5°	36.2	37.0	37.0	39.2	41.4	41.4	41.4	42.2	44.4	45.1	46.6
85°	24.4	25.1	25.9	26.6	28.1	28.8	29.6	29.6	31.1	31.8	32.5
87.5°	13.3	14.8	15.5	16.3	17.0	17.8	18.5	19.2	20.0	20.7	21.5
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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1622.1	1618.4	1616.2	1610.3	1608.8	1599.2	1600.7	1599.2	1599.2	1601.4	1608.8
5°	1691.6	1673.9	1669.5	1656.9	1646.5	1628.8	1617.7	1611.8	1602.9	1599.2	1604.4
7.5°	1739.0	1725.7	1714.6	1703.5	1688.7	1668.0	1652.4	1634.7	1619.9	1605.8	1602.1
10°	1730.8	1745.6	1745.6	1739.0	1724.9	1704.2	1685.7	1663.5	1637.6	1615.5	1602.1
12.5°	1662.1	1687.9	1708.7	1724.2	1738.2	1724.2	1705.7	1687.9	1659.1	1626.6	1602.1
15°	1586.6	1613.2	1639.1	1671.7	1705.7	1719.8	1719.0	1698.3	1672.4	1638.4	1604.4
17.5°	1533.4	1551.8	1565.9	1601.4	1642.8	1679.1	1703.5	1705.0	1679.8	1649.5	1605.1
20°	1493.4	1506.7	1518.6	1538.5	1574.8	1619.2	1664.3	1689.4	1685.0	1651.7	1607.3
22.5°	1457.2	1466.8	1476.4	1491.2	1520.0	1548.9	1601.4	1653.2	1675.4	1648.0	1605.1
25°	1420.9	1431.3	1438.7	1449.0	1472.0	1495.6	1532.6	1597.0	1646.5	1645.0	1600.7
27.5°	1378.0	1392.1	1401.0	1415.0	1430.5	1448.3	1473.4	1534.1	1605.1	1630.3	1588.8
30°	1326.2	1347.0	1360.3	1375.8	1389.1	1404.6	1424.6	1461.6	1549.6	1601.4	1576.3
32.5°	1251.5	1288.5	1318.1	1332.9	1347.7	1361.0	1378.8	1409.8	1481.6	1562.2	1562.2
35°	1198.3	1215.3	1241.9	1284.8	1303.3	1316.6	1332.9	1357.3	1403.2	1515.6	1539.3
37.5°	1156.9	1163.5	1176.8	1219.0	1253.8	1275.2	1291.5	1307.0	1352.1	1452.0	1509.7
40°	1125.8	1123.6	1122.1	1142.1	1191.6	1225.6	1244.1	1259.7	1294.4	1375.8	1470.5
42.5°	1089.5	1087.3	1079.9	1085.1	1109.5	1166.5	1194.6	1211.6	1240.4	1295.9	1427.6
45°	1051.8	1048.1	1045.2	1040.0	1048.9	1080.7	1138.4	1163.5	1179.8	1229.3	1373.6
47.5°	1013.4	1008.2	1004.5	1000.0	994.9	1009.7	1064.4	1109.5	1137.6	1168.7	1308.5
50°	958.6	965.3	960.8	955.7	951.2	948.3	971.2	1045.2	1079.9	1105.1	1229.3
52.5°	451.9	878.7	915.7	910.5	904.6	899.4	904.6	960.8	1023.7	1043.7	1133.9
55°	257.4	391.3	814.4	861.0	855.8	848.4	844.0	863.2	957.1	983.8	1046.6
57.5°	247.8	248.5	359.5	775.9	804.8	798.1	792.9	797.4	877.3	922.4	970.5
60°	239.7	239.7	239.7	343.2	741.9	744.1	737.5	730.1	764.8	853.6	893.5
62.5°	221.9	226.3	228.6	228.6	338.8	687.2	680.5	678.3	679.8	770.7	816.6
65°	199.0	209.3	213.8	216.7	216.7	355.8	622.1	618.4	613.2	648.0	738.9
67.5°	173.8	184.2	193.8	199.7	200.5	207.1	371.3	557.0	549.6	550.3	656.1
70°	147.9	156.8	167.2	176.0	184.2	187.9	193.8	462.3	486.7	476.4	562.2
72.5°	128.0	131.7	139.1	147.9	157.6	166.4	171.6	184.2	422.4	411.3	427.5
75°	106.5	109.5	114.7	120.6	128.0	138.3	147.2	156.1	224.1	344.7	342.5
77.5°	82.8	88.0	93.9	97.6	101.3	108.7	120.6	129.4	138.3	233.0	274.4
80°	63.6	67.3	70.3	74.0	78.4	83.6	88.0	98.4	108.7	116.9	210.1
82.5°	47.3	49.6	51.8	53.3	54.7	57.7	65.8	69.5	76.2	83.6	99.1
85°	33.3	34.8	36.2	37.0	37.7	38.5	41.4	42.2	48.8	50.3	59.9
87.5°	21.5	22.2	23.7	24.4	24.4	25.1	25.9	25.9	25.9	24.4	29.6
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: P1213406

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CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1614.0	1614.0
2.5°	1614.7	1626.6
5°	1612.5	1628.0
7.5°	1606.6	1621.4
10°	1597.7	1615.5
12.5°	1588.1	1605.1
15°	1580.0	1592.5
17.5°	1571.1	1578.5
20°	1559.2	1565.2
22.5°	1547.4	1544.4
25°	1534.1	1527.4
27.5°	1517.1	1504.5
30°	1501.5	1479.4
32.5°	1486.8	1450.5
35°	1466.8	1420.9
37.5°	1446.1	1390.6
40°	1421.7	1355.8
42.5°	1395.8	1321.1
45°	1363.2	1287.8
47.5°	1334.4	1247.8
50°	1294.4	1204.9
52.5°	1245.6	1165.0
55°	1187.9	1116.2
57.5°	1125.8	1065.1
60°	1059.2	1006.7
62.5°	978.6	946.0
65°	883.9	876.5
67.5°	760.4	799.6
70°	623.5	711.6
72.5°	521.5	618.4
75°	427.5	514.1
77.5°	338.8	403.1
80°	211.5	295.1
82.5°	142.0	193.8
85°	85.8	92.5
87.5°	33.3	34.0
90°	0.0	0.0

(END OF REPORT)