

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: P1213001

Luminaire Tested: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213001
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: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

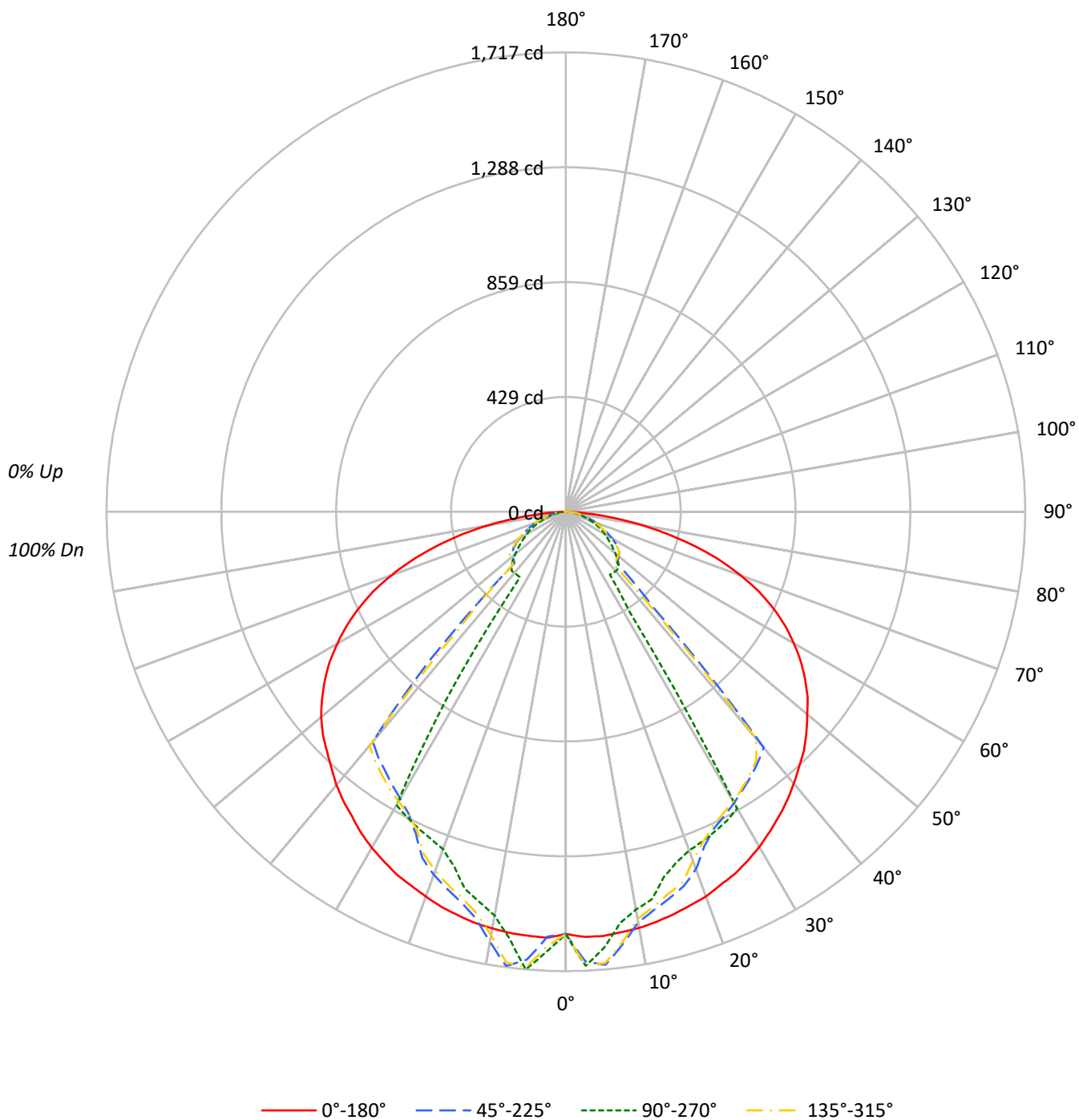
Lumens per Lamp: N/A
Luminaire Lumens: 3160.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 36
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

TEST NUMBER: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

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°	25504	25504	25504	25504
5°	25685	25697	25672	26969
10°	25639	23232	25673	23589
15°	25623	21496	25684	22177
20°	25735	20387	25735	20312
25°	25877	19998	25915	19811
30°	26053	19645	26118	19412
35°	26262	4475	26317	4667
40°	26574	4653	26734	4804
45°	27086	4627	27178	4796
50°	27568	4183	27940	4296
55°	28230	3715	28455	3768
60°	28709	3301	28770	3344
65°	28900	2881	28826	2835
70°	28057	2322	27968	2238
75°	25449	1787	25631	1711
80°	19832	1270	20622	1163
85°	9778	761	10330	582

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 57.5°

Luminance: 29542 cd/sqm

TEST NUMBER: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	4.9
10°-20°	426.9	13.5
20°-30°	632.3	20.0
30°-40°	637.1	20.2
40°-50°	497.7	15.7
50°-60°	384.4	12.2
60°-70°	258.1	8.2
70°-80°	131.7	4.2
80°-90°	36.6	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°	1214.4	38.4
0°-40°	1851.5	58.6
0°-60°	2733.6	86.5
0°-90°	3160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3160.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1578	1578	1578	1578	1578	
5°	1592	1636	1591	1717	1592	151
15°	1557	1414	1561	1459	1557	440
25°	1493	1318	1496	1305	1493	689
35°	1389	286	1392	299	1389	871
45°	1259	278	1263	289	1259	971
55°	1091	202	1100	205	1091	975
65°	857	136	855	134	857	843
75°	503	69	506	66	503	526
85°	90	22	96	17	90	124
90°	0	0	0	0	0	

TEST NUMBER: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1590.3	1596.1	1600.4	1603.3	1604.8	1604.8	1605.5	1606.2	1615.6	1620.0	1622.9
5°	1591.8	1597.5	1606.2	1617.8	1627.9	1636.6	1643.8	1654.0	1664.1	1674.9	1678.5
7.5°	1585.3	1592.5	1609.8	1630.8	1650.3	1664.1	1673.5	1680.0	1685.1	1685.8	1689.4
10°	1579.5	1592.5	1616.4	1643.8	1668.4	1685.1	1685.1	1681.4	1686.5	1667.0	1647.4
12.5°	1569.3	1583.8	1616.4	1652.5	1675.7	1682.2	1679.3	1664.8	1635.2	1611.3	1600.4
15°	1557.0	1576.6	1617.1	1657.6	1677.1	1679.3	1651.8	1614.9	1592.5	1578.0	1559.9
17.5°	1543.3	1569.3	1617.8	1658.3	1665.5	1655.4	1603.3	1580.2	1557.0	1523.1	1498.5
20°	1530.3	1555.6	1612.0	1648.2	1652.5	1607.0	1566.5	1541.9	1502.8	1473.2	1462.3
22.5°	1510.0	1539.7	1607.0	1634.4	1617.8	1565.0	1526.0	1486.9	1451.5	1442.8	1429.8
25°	1493.4	1524.5	1595.4	1617.8	1573.7	1526.7	1481.1	1435.6	1418.9	1406.6	1395.1
27.5°	1471.0	1509.3	1580.2	1587.4	1526.7	1485.5	1418.9	1398.7	1383.5	1369.7	1364.7
30°	1446.4	1493.4	1559.2	1545.5	1487.6	1426.9	1377.7	1358.9	1348.0	1333.6	1327.8
32.5°	1418.2	1469.5	1536.1	1497.0	1445.7	1369.7	1337.9	1323.5	1309.0	1298.1	1262.0
35°	1389.3	1448.6	1508.6	1450.7	1395.1	1326.3	1298.1	1285.1	1271.4	1231.6	1194.0
37.5°	1359.6	1425.4	1475.3	1400.8	1327.8	1281.5	1257.6	1243.2	1212.1	1161.5	1142.7
40°	1325.6	1397.2	1432.7	1349.5	1269.2	1235.9	1213.5	1199.1	1128.9	1106.5	1100.7
42.5°	1291.6	1369.7	1380.6	1299.6	1220.8	1187.5	1168.7	1121.0	1073.2	1061.7	1063.8
45°	1259.1	1340.1	1323.5	1228.7	1170.1	1142.7	1110.8	1045.0	1019.7	1025.5	1026.9
47.5°	1220.0	1304.7	1263.4	1157.8	1118.1	1090.6	1019.7	979.9	976.3	984.3	988.6
50°	1178.1	1264.9	1199.8	1093.5	1061.7	1029.1	948.8	928.6	932.9	940.9	945.9
52.5°	1139.0	1220.0	1134.0	1033.5	1006.0	931.5	877.2	880.9	888.1	897.5	900.4
55°	1091.3	1165.8	1063.8	972.7	946.7	849.0	824.4	833.1	840.4	848.3	854.1
57.5°	1041.4	1103.6	980.7	904.7	862.8	776.0	778.2	783.9	789.0	798.4	329.8
60°	984.3	1032.7	889.5	841.8	758.6	718.1	720.3	730.4	735.5	410.8	227.1
62.5°	925.0	950.3	807.1	770.2	663.2	660.3	670.4	674.7	459.2	217.0	212.6
65°	857.0	851.9	726.1	667.5	598.1	601.0	611.8	590.1	203.2	203.2	201.8
67.5°	781.8	751.4	647.3	552.5	535.2	541.7	553.2	193.1	188.0	189.5	184.4
70°	695.7	653.0	565.5	467.9	473.7	480.2	186.6	175.0	172.8	169.2	159.1
72.5°	604.6	546.0	462.8	406.4	410.1	257.5	163.4	157.7	150.4	143.2	132.3
75°	502.6	426.7	339.9	339.9	345.0	146.8	142.5	133.1	125.1	115.7	109.2
77.5°	394.1	328.3	264.0	274.1	133.8	122.9	115.0	104.9	98.4	92.6	89.0
80°	288.6	229.3	198.9	177.9	104.1	93.3	85.3	79.6	76.7	73.0	68.7
82.5°	189.5	138.1	138.1	83.9	73.0	64.4	62.2	57.9	55.0	52.8	50.6
85°	90.4	80.3	60.7	51.3	45.6	41.2	39.8	37.6	37.6	36.9	36.2
87.5°	33.3	36.2	26.8	26.0	24.6	23.9	24.6	24.6	25.3	24.6	23.9
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1630.1	1635.9	1640.2	1647.4	1656.9	1664.8	1672.0	1682.2	1698.1	1702.4	1706.0
5°	1678.5	1680.7	1685.8	1691.6	1693.0	1696.6	1695.9	1700.2	1702.4	1707.5	1696.6
7.5°	1681.4	1669.9	1656.1	1643.8	1635.2	1627.2	1622.1	1630.1	1634.4	1638.0	1627.2
10°	1620.7	1607.0	1599.0	1591.8	1583.1	1570.8	1554.2	1557.8	1556.3	1556.3	1552.7
12.5°	1582.4	1562.8	1542.6	1524.5	1516.6	1515.8	1516.6	1524.5	1524.5	1523.8	1519.4
15°	1522.3	1503.5	1493.4	1489.1	1489.1	1486.9	1486.9	1495.6	1493.4	1493.4	1491.2
17.5°	1482.6	1469.5	1462.3	1457.2	1455.1	1458.7	1463.0	1466.6	1467.4	1464.5	1452.9
20°	1450.0	1437.7	1429.0	1430.5	1429.8	1431.9	1434.1	1421.8	1406.6	1386.4	1377.0
22.5°	1416.0	1406.6	1400.1	1400.1	1391.4	1377.7	1357.4	1353.1	1350.9	1341.5	1333.6
25°	1383.5	1372.6	1363.2	1334.3	1316.2	1318.4	1314.8	1307.5	1306.8	1306.1	1309.0
27.5°	1350.9	1322.7	1286.6	1282.2	1275.0	1274.3	1278.6	1282.2	1282.2	1285.1	1288.7
30°	1283.7	1251.1	1244.6	1236.7	1239.6	1249.7	1251.9	1256.9	1258.4	1263.4	1266.3
32.5°	1222.2	1207.7	1202.0	1205.6	1215.0	1223.7	1228.7	1230.9	1234.5	1238.8	1242.5
35°	1172.3	1168.0	1173.0	1181.0	1190.4	1197.6	1202.0	1206.3	1209.9	1213.5	1216.4
37.5°	1135.4	1138.3	1145.5	1155.7	1165.1	1170.9	1174.5	1179.5	1184.6	1188.9	1171.6
40°	1100.7	1107.9	1115.9	1126.7	1134.7	1140.5	1144.1	1150.6	1107.2	501.2	274.8
42.5°	1070.3	1078.3	1084.1	1092.8	1101.4	1105.8	1074.0	479.5	271.2	269.8	273.4
45°	1033.5	1040.0	1049.4	1055.9	1063.8	698.6	266.9	269.8	265.4	268.3	269.8
47.5°	995.8	1006.0	1011.0	964.7	287.1	265.4	262.5	265.4	262.5	266.1	264.0
50°	953.2	965.5	687.0	259.6	257.5	256.0	258.9	257.5	259.6	262.5	256.7
52.5°	909.8	563.4	251.7	250.2	251.7	250.2	255.3	251.7	252.4	249.5	242.3
55°	308.1	243.7	241.5	240.8	245.2	245.2	245.2	239.4	235.8	228.5	223.5
57.5°	235.8	235.8	235.0	235.8	234.3	232.9	226.4	221.3	216.2	206.1	203.2
60°	223.5	223.5	223.5	223.5	217.0	214.1	203.9	199.6	190.9	185.9	183.0
62.5°	213.3	211.9	205.4	203.2	196.0	188.0	182.2	177.9	169.2	166.3	164.2
65°	198.9	193.8	185.9	177.2	173.6	164.9	162.0	155.5	151.1	149.0	147.5
67.5°	175.0	167.8	161.3	155.5	149.0	146.1	142.5	137.4	134.5	133.1	131.6
70°	149.7	144.6	138.1	134.5	130.2	128.0	122.9	121.5	119.3	117.2	115.0
72.5°	125.1	122.2	119.3	114.3	112.8	111.4	106.3	103.4	100.5	97.6	96.2
75°	104.9	102.7	101.2	96.9	94.7	90.4	86.8	84.6	82.4	80.3	78.8
77.5°	86.1	84.6	80.3	77.4	75.9	72.3	70.9	71.6	70.2	67.3	65.8
80°	67.3	65.8	62.2	62.2	60.7	59.3	57.9	56.4	55.0	52.8	51.3
82.5°	51.3	49.9	48.5	47.0	45.6	44.8	44.1	42.7	41.2	39.8	39.1
85°	36.2	35.4	34.7	34.0	33.3	32.5	31.8	30.4	28.9	28.2	27.5
87.5°	24.6	23.9	23.1	22.4	21.7	21.0	20.2	19.5	18.1	17.4	16.6
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1706.0	1709.6	1706.0	1698.1	1693.0	1690.8	1695.2	1695.2	1698.1	1701.7	1702.4
5°	1679.3	1670.6	1660.5	1650.3	1645.3	1642.4	1634.4	1635.9	1638.0	1639.5	1640.9
7.5°	1612.7	1601.2	1587.4	1574.4	1569.3	1565.0	1555.6	1555.6	1555.6	1556.3	1560.7
10°	1544.8	1539.7	1533.9	1525.2	1518.7	1516.6	1508.6	1510.8	1509.3	1511.5	1516.6
12.5°	1512.9	1507.1	1502.1	1493.4	1486.2	1483.3	1479.7	1481.8	1481.1	1484.7	1489.1
15°	1484.0	1481.1	1475.3	1468.8	1462.3	1456.5	1443.5	1439.2	1436.3	1432.7	1437.7
17.5°	1436.3	1416.0	1402.3	1392.2	1384.9	1379.9	1376.2	1376.2	1378.4	1380.6	1384.9
20°	1371.2	1365.4	1358.9	1348.0	1340.8	1337.9	1335.8	1335.8	1339.4	1342.3	1350.2
22.5°	1326.3	1325.6	1323.5	1318.4	1314.8	1314.8	1315.5	1316.9	1322.0	1326.3	1334.3
25°	1305.4	1308.3	1306.8	1303.9	1301.8	1302.5	1301.0	1302.5	1307.5	1311.9	1318.4
27.5°	1288.7	1293.1	1291.6	1287.3	1283.7	1285.1	1287.3	1285.8	1290.2	1295.3	1300.3
30°	1266.3	1267.0	1269.9	1264.9	1263.4	1265.6	1266.3	1267.8	1272.1	1275.7	1280.1
32.5°	1241.0	1246.8	1246.1	1241.0	1241.0	1243.2	1243.9	1195.4	1105.0	951.7	909.8
35°	1216.4	1222.9	1212.1	1021.9	707.3	377.5	291.4	281.3	283.5	284.9	286.4
37.5°	899.7	426.7	271.9	274.1	276.3	278.4	280.6	282.8	284.9	287.1	287.8
40°	270.5	269.8	271.9	274.8	277.0	278.4	281.3	283.5	285.7	287.8	288.6
42.5°	267.6	269.0	271.2	274.1	277.0	279.9	282.0	284.9	286.4	287.8	288.6
45°	266.1	269.0	271.9	274.1	276.3	277.7	279.2	279.9	279.2	279.2	280.6
47.5°	264.0	266.9	267.6	266.9	267.6	266.9	266.9	266.9	264.7	264.0	264.0
50°	256.0	256.0	254.6	251.7	251.0	250.2	248.8	248.1	245.2	244.4	244.4
52.5°	239.4	238.7	236.5	232.9	231.4	230.0	229.3	228.5	225.6	224.2	224.9
55°	219.9	218.4	216.2	211.9	211.2	209.7	209.0	208.3	205.4	206.8	204.7
57.5°	201.8	198.9	196.0	195.3	192.4	191.6	190.9	190.2	188.0	188.8	187.3
60°	180.1	179.4	177.9	175.0	175.0	174.3	174.3	172.8	171.4	170.7	170.7
62.5°	164.2	162.0	160.6	160.6	158.4	158.4	158.4	156.9	155.5	156.2	155.5
65°	146.8	146.1	145.4	143.9	143.9	143.2	143.2	141.7	139.6	140.3	138.9
67.5°	132.3	130.9	129.5	128.7	125.8	124.4	123.7	122.9	120.1	120.8	119.3
70°	114.3	112.1	110.6	109.2	107.0	105.6	105.6	104.1	102.0	102.7	101.2
72.5°	95.5	94.0	92.6	91.8	89.7	89.0	88.2	87.5	85.3	86.1	85.3
75°	79.6	79.6	78.8	78.1	75.9	73.8	72.3	71.6	70.2	70.9	69.4
77.5°	65.8	64.4	62.9	62.9	60.7	59.3	57.9	57.9	57.9	57.1	56.4
80°	51.3	49.9	49.9	49.2	47.7	46.3	45.6	45.6	44.8	44.8	44.1
82.5°	39.1	37.6	36.9	36.9	35.4	34.7	34.0	33.3	33.3	33.3	32.5
85°	27.5	26.0	25.3	25.3	23.9	23.1	23.1	22.4	22.4	21.7	21.7
87.5°	16.6	15.9	15.2	15.2	13.7	13.0	13.0	13.0	12.3	12.3	11.6
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1702.4	1702.4	1697.4	1698.8	1696.6	1699.5	1695.9	1695.9	1700.2	1700.2	1703.1
5°	1641.7	1638.0	1637.3	1635.9	1628.6	1631.5	1627.9	1624.3	1629.4	1629.4	1635.9
7.5°	1558.5	1552.0	1554.9	1550.5	1546.2	1539.7	1541.9	1539.0	1542.6	1547.6	1554.2
10°	1515.8	1510.0	1513.7	1509.3	1511.5	1502.1	1502.8	1503.5	1507.1	1508.6	1514.4
12.5°	1488.3	1486.9	1485.5	1484.0	1485.5	1480.4	1477.5	1478.2	1479.7	1480.4	1484.7
15°	1430.5	1421.1	1424.0	1413.9	1414.6	1415.3	1409.5	1415.3	1414.6	1424.0	1432.7
17.5°	1383.5	1383.5	1378.4	1374.1	1371.2	1370.5	1366.1	1369.0	1366.1	1371.9	1374.1
20°	1350.9	1350.2	1349.5	1347.3	1340.1	1340.8	1343.0	1336.5	1335.8	1335.0	1339.4
22.5°	1335.8	1336.5	1333.6	1333.6	1327.1	1328.5	1329.2	1322.0	1322.7	1320.6	1322.7
25°	1319.8	1321.3	1317.7	1317.7	1316.2	1315.5	1311.9	1313.3	1309.0	1305.4	1309.0
27.5°	1301.0	1303.9	1301.0	1302.5	1299.6	1298.1	1296.0	1294.5	1290.2	1289.5	1291.6
30°	1283.7	1285.1	1284.4	1280.8	1280.1	1275.7	1277.9	1273.6	1269.2	1269.9	1271.4
32.5°	658.1	628.5	484.5	437.5	433.2	449.1	532.3	648.0	839.6	1025.5	1159.3
35°	287.1	287.1	287.1	286.4	286.4	285.7	284.9	284.2	283.5	282.8	282.0
37.5°	288.6	288.6	288.6	288.6	287.8	287.1	287.1	285.7	284.9	284.2	283.5
40°	289.3	290.0	290.0	290.0	289.3	289.3	288.6	287.1	286.4	284.9	283.5
42.5°	288.6	289.3	289.3	288.6	288.6	287.8	287.8	287.1	286.4	285.7	284.9
45°	279.2	279.9	278.4	278.4	277.7	277.7	277.7	277.7	277.7	278.4	278.4
47.5°	262.5	262.5	261.8	261.1	261.1	260.4	261.1	260.4	261.8	262.5	264.0
50°	243.0	243.0	241.5	240.8	240.8	240.8	240.8	241.5	242.3	243.7	245.2
52.5°	222.7	222.7	222.0	221.3	220.6	220.6	222.7	222.0	222.7	223.5	225.6
55°	203.2	203.9	202.5	202.5	201.8	201.8	201.8	202.5	203.2	203.9	206.1
57.5°	186.6	186.6	185.1	185.1	185.1	184.4	186.6	185.1	185.9	186.6	188.0
60°	170.0	169.2	169.2	168.5	168.5	168.5	170.0	169.2	169.2	170.0	171.4
62.5°	154.8	154.8	154.0	154.0	153.3	153.3	154.8	154.0	154.0	154.8	155.5
65°	137.4	137.4	136.7	136.0	138.1	136.0	138.1	136.7	138.1	138.9	140.3
67.5°	117.9	117.9	117.9	117.2	117.2	118.6	119.3	117.9	118.6	120.1	120.8
70°	100.5	100.5	99.8	99.8	99.8	101.2	102.0	100.5	101.2	102.0	103.4
72.5°	85.3	83.9	83.9	83.2	84.6	84.6	85.3	84.6	85.3	85.3	86.8
75°	70.2	68.7	68.7	68.7	70.2	69.4	70.2	69.4	70.2	70.2	70.9
77.5°	56.4	55.7	55.0	55.0	56.4	56.4	56.4	55.7	56.4	57.1	57.9
80°	44.1	43.4	42.7	42.7	44.1	44.1	44.1	44.8	44.1	44.8	45.6
82.5°	32.5	31.8	31.1	32.5	32.5	32.5	32.5	33.3	32.5	33.3	34.0
85°	21.7	21.0	20.2	21.7	21.7	21.7	21.7	22.4	21.7	22.4	23.1
87.5°	11.6	10.8	10.8	11.6	11.6	11.6	12.3	12.3	12.3	13.0	13.0
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1707.5	1709.6	1708.9	1704.6	1700.2	1695.2	1691.6	1692.3	1699.5	1701.7	1695.2
5°	1635.9	1649.6	1649.6	1659.0	1654.0	1649.6	1652.5	1668.4	1676.4	1688.7	1693.0
7.5°	1562.1	1568.6	1567.9	1577.3	1575.9	1575.9	1578.0	1599.0	1609.1	1619.2	1622.1
10°	1520.9	1527.4	1526.7	1527.4	1525.2	1520.2	1520.2	1529.6	1538.2	1543.3	1544.8
12.5°	1491.2	1494.9	1494.1	1494.1	1492.7	1488.3	1487.6	1495.6	1505.0	1511.5	1512.2
15°	1447.1	1457.2	1459.4	1468.8	1466.6	1460.9	1462.3	1468.8	1474.6	1480.4	1478.2
17.5°	1381.3	1386.4	1387.1	1390.7	1389.3	1389.3	1397.9	1421.8	1437.7	1451.5	1452.9
20°	1343.7	1347.3	1345.9	1353.8	1350.2	1349.5	1351.7	1361.8	1369.0	1375.5	1387.1
22.5°	1325.6	1328.5	1326.3	1327.1	1320.6	1314.8	1313.3	1321.3	1329.2	1337.9	1337.9
25°	1310.4	1312.6	1311.9	1310.4	1305.4	1297.4	1296.0	1297.4	1300.3	1301.0	1296.0
27.5°	1292.4	1293.8	1293.8	1294.5	1288.0	1280.8	1279.3	1277.9	1280.8	1280.1	1272.1
30°	1273.6	1271.4	1272.1	1272.8	1267.0	1260.5	1257.6	1256.9	1259.8	1259.1	1251.1
32.5°	1228.7	1245.4	1246.8	1248.2	1243.2	1237.4	1234.5	1232.3	1233.8	1233.1	1225.8
35°	281.3	286.4	350.8	794.1	1078.3	1194.0	1206.3	1203.4	1204.1	1204.1	1198.3
37.5°	282.0	281.3	280.6	278.4	276.3	274.8	475.1	1013.2	1173.8	1174.5	1169.4
40°	282.0	281.3	280.6	279.2	276.3	274.1	270.5	267.6	274.1	603.1	1103.6
42.5°	283.5	282.0	280.6	279.2	276.3	273.4	270.5	266.9	269.0	267.6	264.0
45°	279.2	278.4	278.4	277.7	276.3	273.4	269.8	265.4	263.2	265.4	261.8
47.5°	265.4	266.1	268.3	269.0	269.0	269.8	267.6	264.7	261.1	263.2	258.9
50°	246.6	248.1	248.8	252.4	253.8	256.7	257.5	257.5	256.7	259.6	256.7
52.5°	226.4	227.8	231.4	232.9	234.3	238.7	240.1	242.3	243.7	248.1	251.0
55°	206.8	207.6	209.0	211.9	214.1	217.7	219.9	222.0	225.6	227.8	236.5
57.5°	188.8	189.5	192.4	193.1	194.5	197.4	199.6	202.5	205.4	206.8	217.0
60°	171.4	172.1	174.3	175.0	175.7	178.6	180.8	183.0	185.1	186.6	193.8
62.5°	156.2	156.2	158.4	158.4	159.1	161.3	162.7	164.2	166.3	167.1	170.7
65°	141.0	141.7	143.2	143.2	143.9	145.4	146.1	146.8	149.0	149.0	151.9
67.5°	122.2	122.9	125.1	126.6	127.3	130.2	130.9	131.6	133.1	133.8	135.2
70°	104.1	104.9	107.0	107.8	108.5	110.6	112.1	114.3	116.4	118.6	120.1
72.5°	87.5	88.2	90.4	90.4	92.6	93.3	94.7	95.5	97.6	99.1	101.2
75°	71.6	72.3	74.5	74.5	76.7	77.4	78.1	78.8	80.3	81.7	83.2
77.5°	58.6	58.6	61.5	62.9	64.4	64.4	65.1	65.1	65.1	65.8	67.3
80°	46.3	46.3	48.5	49.9	51.3	51.3	52.1	52.8	53.5	53.5	54.2
82.5°	34.7	34.7	36.9	37.6	39.1	39.1	39.1	39.8	40.5	39.8	41.2
85°	23.9	23.9	25.3	26.0	27.5	27.5	27.5	28.2	28.9	28.2	28.9
87.5°	13.7	14.5	15.2	15.9	16.6	17.4	17.4	17.4	18.1	18.1	18.8
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1687.9	1679.3	1678.5	1668.4	1665.5	1666.3	1658.3	1655.4	1642.4	1639.5	1625.8
5°	1694.5	1698.8	1696.6	1695.9	1698.1	1696.6	1690.8	1687.9	1685.8	1680.0	1668.4
7.5°	1622.9	1625.8	1627.9	1637.3	1645.3	1659.0	1673.5	1682.9	1690.1	1691.6	1682.2
10°	1549.8	1563.6	1573.0	1587.4	1599.0	1607.0	1615.6	1623.6	1644.6	1665.5	1677.8
12.5°	1512.2	1515.8	1515.1	1523.1	1531.0	1552.0	1572.2	1583.8	1599.7	1609.1	1631.5
15°	1480.4	1481.1	1483.3	1489.1	1493.4	1500.6	1510.0	1527.4	1559.2	1573.7	1586.0
17.5°	1451.5	1451.5	1452.9	1458.0	1463.8	1470.3	1476.1	1483.3	1499.2	1523.1	1553.4
20°	1405.2	1425.4	1427.6	1426.9	1429.8	1442.1	1443.5	1456.5	1464.5	1473.9	1503.5
22.5°	1336.5	1348.8	1366.1	1392.9	1403.0	1408.8	1413.1	1418.9	1431.2	1442.1	1454.4
25°	1298.9	1306.8	1311.9	1319.8	1340.8	1374.8	1381.3	1387.8	1395.8	1403.7	1418.9
27.5°	1265.6	1264.9	1268.5	1275.7	1281.5	1299.6	1331.4	1356.7	1358.2	1369.7	1382.8
30°	1241.7	1237.4	1232.3	1230.9	1238.8	1248.2	1257.6	1297.4	1324.9	1330.7	1344.4
32.5°	1219.3	1212.1	1204.9	1199.1	1194.0	1202.0	1207.7	1225.1	1260.5	1293.8	1301.0
35°	1191.8	1184.6	1175.9	1169.4	1161.5	1160.7	1160.0	1176.6	1188.2	1228.0	1262.7
37.5°	1163.6	1155.7	1148.4	1141.2	1133.3	1127.5	1123.9	1128.2	1139.0	1156.4	1214.3
40°	1134.0	1124.6	1117.3	1111.6	1100.7	1096.4	1089.1	1086.2	1087.0	1102.2	1132.5
42.5°	677.6	1080.5	1084.1	1077.6	1068.2	1062.4	1054.4	1050.8	1043.6	1050.8	1068.2
45°	261.1	264.0	790.5	1044.3	1032.7	1025.5	1018.3	1014.6	1006.7	1000.9	1016.8
47.5°	256.0	258.9	253.1	358.7	985.7	987.9	979.2	975.6	967.6	963.3	959.0
50°	252.4	254.6	250.2	251.7	246.6	903.3	939.4	935.1	926.4	921.4	912.7
52.5°	248.8	248.8	245.9	242.3	240.8	241.5	760.1	893.9	883.8	878.7	867.1
55°	237.2	238.7	241.5	235.8	234.3	233.6	231.4	723.9	836.7	831.0	820.8
57.5°	219.9	222.7	230.7	229.3	229.3	223.5	222.0	222.0	671.9	782.5	772.4
60°	199.6	202.5	211.2	214.1	216.2	214.8	213.3	212.6	209.7	708.0	721.0
62.5°	178.6	181.5	184.4	193.8	196.7	200.3	204.7	202.5	199.6	199.6	666.8
65°	156.2	160.6	162.0	170.7	174.3	180.8	184.4	189.5	188.0	187.3	190.9
67.5°	136.7	141.7	142.5	146.1	152.6	155.5	159.8	169.2	173.6	175.0	176.5
70°	120.1	122.9	125.1	126.6	130.9	131.6	139.6	146.1	152.6	159.8	162.0
72.5°	103.4	105.6	109.9	108.5	109.9	112.8	117.2	121.5	128.0	138.1	144.6
75°	84.6	86.1	89.0	90.4	93.3	95.5	98.4	102.0	107.8	112.8	121.5
77.5°	68.0	68.7	70.9	71.6	74.5	76.7	81.7	83.9	87.5	91.1	96.2
80°	55.0	55.0	55.7	55.7	57.9	60.0	63.6	65.8	70.2	73.0	73.0
82.5°	41.9	41.9	44.1	44.1	45.6	45.6	47.7	47.7	49.9	51.3	52.8
85°	29.7	30.4	31.8	31.1	32.5	31.8	33.3	34.7	35.4	34.7	34.0
87.5°	19.5	19.5	21.0	20.2	21.0	21.0	22.4	22.4	23.1	23.1	22.4
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1620.7	1609.8	1603.3	1595.4	1593.2	1591.0	1593.9	1593.9	1589.6	1586.0	1579.5
5°	1658.3	1646.7	1634.4	1621.4	1609.1	1596.1	1591.0	1590.3	1582.4	1578.0	1575.9
7.5°	1677.8	1672.0	1658.3	1640.2	1621.4	1598.3	1588.1	1582.4	1574.4	1573.0	1573.0
10°	1680.0	1673.5	1666.3	1653.2	1631.5	1601.2	1581.6	1570.1	1562.8	1567.9	1577.3
12.5°	1659.0	1671.3	1664.8	1656.1	1638.8	1601.9	1573.7	1556.3	1554.2	1567.2	1591.8
15°	1605.5	1641.7	1659.7	1651.1	1637.3	1600.4	1560.7	1540.4	1540.4	1567.2	1599.0
17.5°	1565.0	1593.2	1637.3	1644.6	1628.6	1597.5	1548.4	1524.5	1531.0	1570.1	1604.1
20°	1531.7	1549.1	1591.8	1632.3	1617.1	1591.0	1530.3	1505.7	1518.7	1565.7	1611.3
22.5°	1479.7	1514.4	1540.4	1600.4	1605.5	1578.7	1512.2	1482.6	1508.6	1565.7	1607.7
25°	1429.0	1471.0	1498.5	1557.0	1588.1	1563.6	1495.6	1458.0	1497.7	1563.6	1604.8
27.5°	1393.6	1413.1	1463.0	1505.0	1562.1	1543.3	1473.2	1431.2	1484.0	1552.0	1588.1
30°	1356.0	1369.0	1418.2	1458.0	1527.4	1520.2	1450.0	1401.6	1466.6	1541.1	1544.8
32.5°	1314.8	1329.2	1354.6	1412.4	1478.9	1498.5	1424.0	1371.9	1447.8	1524.5	1494.1
35°	1272.8	1283.7	1303.9	1366.1	1422.5	1465.9	1392.2	1337.9	1434.8	1499.2	1445.7
37.5°	1230.9	1242.5	1259.8	1311.9	1363.2	1435.6	1364.7	1303.9	1411.0	1454.4	1395.1
40°	1191.1	1197.6	1215.7	1248.2	1314.1	1404.5	1333.6	1268.5	1386.4	1397.2	1326.3
42.5°	1118.1	1150.6	1167.2	1193.3	1258.4	1361.8	1297.4	1230.9	1358.9	1340.1	1257.6
45°	1039.2	1110.1	1117.3	1143.4	1209.2	1316.2	1263.4	1194.0	1332.9	1290.9	1192.6
47.5°	974.9	1026.2	1068.2	1089.9	1150.6	1262.7	1231.6	1162.9	1293.8	1228.7	1128.9
50°	917.7	945.2	1021.2	1037.1	1080.5	1198.3	1194.0	1126.7	1239.6	1150.6	1066.7
52.5°	862.1	881.6	950.3	984.3	1019.7	1128.9	1149.2	1091.3	1180.3	1072.5	1003.8
55°	813.6	820.1	857.7	929.3	961.1	1058.8	1100.0	1050.1	1105.0	998.0	943.1
57.5°	763.7	757.9	785.4	877.2	900.4	987.2	1047.9	1008.1	1044.3	922.1	880.1
60°	711.6	703.7	715.2	776.0	836.0	916.3	986.4	961.9	970.5	846.9	810.0
62.5°	657.4	649.4	645.8	684.1	773.1	843.3	924.2	910.5	880.1	778.2	723.2
65°	601.0	593.0	587.2	602.4	703.7	748.5	854.8	851.2	781.1	705.8	608.9
67.5°	183.0	539.5	527.2	526.5	593.0	662.5	779.6	773.8	681.3	628.5	524.3
70°	164.9	437.5	465.0	458.5	487.4	574.9	693.5	689.2	584.3	504.1	463.6
72.5°	151.1	154.8	410.8	403.5	410.1	488.9	603.9	592.3	495.4	397.8	400.7
75°	129.5	136.0	141.7	340.6	331.9	405.0	506.2	488.2	408.6	328.3	334.8
77.5°	105.6	113.5	117.9	248.1	268.3	288.6	404.3	380.4	281.3	262.5	125.1
80°	78.8	85.3	92.6	99.1	203.9	201.8	300.1	276.3	196.0	163.4	97.6
82.5°	57.9	60.0	64.4	71.6	81.0	135.2	193.1	170.0	136.0	74.5	67.3
85°	36.2	39.1	41.2	43.4	49.2	81.0	95.5	75.9	57.1	45.6	42.7
87.5°	23.1	23.1	22.4	23.1	23.9	28.9	32.5	31.1	24.6	23.1	23.1
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1572.2	1562.1	1562.1	1559.2	1561.4	1561.4	1560.7	1561.4	1566.5	1569.3	1574.4
5°	1571.5	1568.6	1575.1	1583.1	1592.5	1604.1	1607.0	1617.1	1626.5	1638.8	1651.8
7.5°	1580.9	1591.0	1603.3	1616.4	1635.2	1648.9	1661.2	1673.5	1682.2	1693.7	1701.0
10°	1594.7	1614.9	1635.9	1652.5	1672.8	1684.3	1692.3	1693.7	1681.4	1661.9	1646.0
12.5°	1614.2	1638.0	1657.6	1673.5	1682.9	1678.5	1655.4	1631.5	1617.8	1597.5	1569.3
15°	1630.8	1652.5	1672.8	1666.3	1640.9	1617.1	1599.0	1570.8	1543.3	1524.5	1512.2
17.5°	1638.0	1659.0	1651.8	1617.8	1593.9	1566.5	1529.6	1507.9	1489.8	1475.3	1468.1
20°	1642.4	1638.8	1599.7	1575.1	1528.8	1503.5	1479.7	1459.4	1445.7	1438.4	1437.0
22.5°	1630.8	1586.7	1553.4	1509.3	1475.3	1454.4	1435.6	1418.9	1409.5	1403.7	1400.1
25°	1592.5	1541.1	1492.0	1457.2	1428.3	1410.2	1395.8	1382.0	1370.5	1367.6	1360.3
27.5°	1539.0	1497.0	1431.9	1405.2	1379.9	1371.2	1355.3	1341.5	1331.4	1322.7	1299.6
30°	1494.9	1428.3	1381.3	1356.7	1341.5	1331.4	1313.3	1298.9	1281.5	1249.7	1236.7
32.5°	1440.6	1374.8	1330.0	1316.2	1297.4	1288.7	1268.5	1236.7	1209.9	1196.9	1196.2
35°	1370.5	1316.2	1283.7	1271.4	1256.2	1241.7	1199.8	1170.9	1157.8	1159.3	1170.1
37.5°	1311.9	1263.4	1242.5	1225.1	1207.7	1170.9	1135.4	1121.7	1125.3	1132.5	1137.6
40°	1252.6	1215.7	1191.8	1178.1	1139.0	1102.9	1084.1	1089.1	1095.6	1100.7	1107.2
42.5°	1194.7	1168.7	1144.8	1118.1	1064.6	1045.0	1049.4	1055.9	1061.7	1068.9	1075.4
45°	1139.8	1116.6	1089.1	1028.4	1001.6	1006.7	1013.2	1018.3	1026.9	1032.0	1038.5
47.5°	1087.7	1063.1	1014.6	961.1	958.2	968.4	974.2	980.7	987.2	974.2	537.3
50°	1029.1	1003.8	930.0	909.8	916.3	925.7	932.9	939.4	836.7	332.7	256.0
52.5°	971.3	906.9	859.9	865.7	872.2	883.0	888.1	659.6	262.5	250.2	251.0
55°	906.9	824.4	810.7	817.9	823.7	834.6	553.2	242.3	240.8	240.1	245.9
57.5°	805.6	755.7	761.5	768.8	774.5	546.7	235.8	234.3	235.0	235.8	236.5
60°	715.2	704.4	710.9	717.4	507.7	227.8	223.5	224.2	227.1	224.9	219.1
62.5°	643.6	652.3	658.8	577.1	216.2	214.1	216.2	214.1	209.0	205.4	198.2
65°	588.7	597.4	602.4	203.2	202.5	205.4	203.2	196.0	188.0	177.9	175.7
67.5°	530.8	539.5	193.1	188.0	190.9	187.3	178.6	170.0	164.2	155.5	151.9
70°	470.8	201.8	175.0	174.3	169.2	163.4	154.0	145.4	138.1	134.5	130.9
72.5°	339.9	159.8	157.7	151.9	143.2	135.2	127.3	122.2	118.6	116.4	114.3
75°	141.7	138.9	132.3	122.2	113.5	109.9	104.1	100.5	99.1	94.7	93.3
77.5°	118.6	112.8	103.4	96.2	91.1	89.0	84.6	80.3	78.1	77.4	74.5
80°	91.1	83.2	78.8	75.2	73.8	68.7	63.6	61.5	60.0	59.3	57.1
82.5°	62.2	59.3	56.4	51.3	51.3	49.2	47.0	45.6	44.1	44.1	42.7
85°	40.5	38.3	37.6	35.4	35.4	34.0	33.3	32.5	31.8	31.1	30.4
87.5°	23.1	23.1	23.9	23.1	23.1	22.4	21.7	21.0	20.2	20.2	18.8
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1580.9	1588.1	1589.6	1614.2	1627.9	1627.2	1622.9	1635.9	1627.9	1623.6	1627.9
5°	1664.8	1673.5	1680.7	1707.5	1716.9	1721.2	1720.5	1727.7	1721.9	1716.9	1716.9
7.5°	1706.0	1708.9	1711.8	1705.3	1701.0	1693.7	1682.9	1667.0	1659.0	1650.3	1639.5
10°	1638.0	1628.6	1632.3	1619.2	1608.4	1600.4	1590.3	1577.3	1566.5	1558.5	1546.2
12.5°	1554.9	1554.2	1555.6	1557.8	1546.9	1540.4	1532.5	1523.1	1515.1	1506.4	1496.3
15°	1504.3	1505.0	1510.8	1508.6	1505.0	1501.4	1492.7	1489.8	1482.6	1473.2	1467.4
17.5°	1468.1	1471.7	1477.5	1474.6	1468.8	1465.2	1458.7	1452.2	1445.7	1438.4	1429.8
20°	1436.3	1439.9	1443.5	1439.9	1429.0	1424.0	1415.3	1395.1	1380.6	1366.1	1353.1
22.5°	1401.6	1403.7	1400.8	1389.3	1361.8	1348.8	1338.6	1332.9	1320.6	1312.6	1304.7
25°	1358.2	1345.9	1327.1	1314.1	1303.2	1297.4	1293.1	1292.4	1290.9	1289.5	1285.8
27.5°	1287.3	1283.0	1272.8	1267.8	1268.5	1270.7	1271.4	1273.6	1271.4	1268.5	1265.6
30°	1234.5	1236.7	1237.4	1238.8	1242.5	1244.6	1245.4	1248.2	1246.8	1244.6	1243.2
32.5°	1201.2	1206.3	1209.2	1213.5	1215.7	1219.3	1219.3	1223.7	1219.3	1218.6	1217.1
35°	1173.8	1178.1	1179.5	1186.0	1188.2	1191.8	1191.8	1195.4	1191.8	1155.0	912.0
37.5°	1146.3	1150.6	1153.5	1159.3	1160.0	1162.2	1072.5	784.7	506.2	392.0	299.4
40°	1113.7	1118.8	1121.7	1123.9	789.7	501.2	345.0	280.6	280.6	282.8	284.9
42.5°	1079.0	1082.6	754.3	439.0	273.4	272.6	274.8	277.0	279.2	282.0	284.9
45°	848.3	428.1	271.9	265.4	267.6	270.5	273.4	276.3	279.9	282.8	284.2
47.5°	278.4	261.1	264.7	261.8	265.4	269.0	271.9	274.8	275.5	276.3	275.5
50°	257.5	257.5	259.6	259.6	262.5	264.0	264.0	264.0	261.1	260.4	258.2
52.5°	248.8	254.6	251.7	253.1	251.7	249.5	247.3	245.2	240.8	239.4	236.5
55°	244.4	246.6	239.4	237.2	234.3	228.5	225.6	222.7	219.1	217.7	214.1
57.5°	234.3	229.3	221.3	217.7	212.6	206.8	203.9	201.8	198.2	196.7	194.5
60°	215.5	205.4	200.3	196.0	190.2	185.1	183.0	181.5	178.6	177.9	175.7
62.5°	192.4	183.7	179.4	173.6	169.2	166.3	164.2	163.4	160.6	160.6	159.1
65°	167.1	162.7	159.1	153.3	151.1	148.3	147.5	146.8	145.4	144.6	143.2
67.5°	146.8	143.9	138.9	136.0	134.5	132.3	130.9	129.5	126.6	125.1	122.9
70°	128.7	126.6	121.5	119.3	116.4	112.8	110.6	109.2	107.0	105.6	103.4
72.5°	111.4	104.9	101.2	99.1	96.9	93.3	92.6	91.1	89.0	88.2	86.1
75°	89.7	84.6	82.4	81.0	78.8	76.7	76.7	76.7	74.5	73.8	73.0
77.5°	71.6	68.7	67.3	65.8	65.1	63.6	61.5	60.7	58.6	58.6	57.9
80°	55.0	53.5	52.1	51.3	50.6	49.2	47.7	47.0	44.8	44.8	44.1
82.5°	40.5	39.8	39.1	38.3	37.6	36.9	34.7	34.0	32.5	32.5	31.8
85°	28.9	28.2	26.8	26.0	26.0	25.3	23.1	22.4	21.0	21.0	21.0
87.5°	18.1	17.4	16.6	15.9	15.2	14.5	13.0	12.3	12.3	10.8	10.1
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1619.2	1631.5	1630.1	1638.8	1640.9	1645.3	1646.7	1647.4	1636.6	1645.3	1646.0
5°	1714.7	1716.9	1718.3	1721.9	1725.6	1726.3	1722.7	1718.3	1719.8	1716.9	1709.6
7.5°	1638.0	1627.2	1625.0	1622.1	1620.7	1619.2	1612.7	1618.5	1612.0	1609.1	1599.0
10°	1544.0	1533.9	1533.2	1533.2	1535.4	1534.6	1533.2	1530.3	1536.1	1532.5	1530.3
12.5°	1494.9	1491.2	1493.4	1492.0	1497.7	1499.2	1497.7	1497.7	1496.3	1493.4	1494.9
15°	1465.2	1462.3	1464.5	1462.3	1466.6	1467.4	1463.8	1465.9	1462.3	1458.7	1457.2
17.5°	1426.2	1419.6	1414.6	1407.3	1408.1	1406.6	1402.3	1402.3	1398.7	1389.3	1390.0
20°	1350.9	1344.4	1341.5	1341.5	1345.2	1346.6	1345.9	1347.3	1343.7	1342.3	1336.5
22.5°	1303.9	1303.2	1304.7	1308.3	1314.1	1322.0	1322.7	1322.7	1322.7	1322.0	1314.8
25°	1287.3	1287.3	1288.7	1293.8	1298.1	1303.9	1305.4	1306.8	1305.4	1305.4	1298.9
27.5°	1268.5	1267.0	1269.9	1275.0	1280.1	1284.4	1288.0	1288.7	1286.6	1286.6	1288.7
30°	1245.4	1244.6	1248.2	1253.3	1257.6	1262.0	1265.6	1268.5	1265.6	1265.6	1263.4
32.5°	1221.5	1221.5	1222.9	1192.6	1105.8	995.8	998.0	934.4	890.3	834.6	908.3
35°	762.3	554.7	476.6	403.5	352.2	318.9	318.2	307.4	302.3	298.7	298.0
37.5°	287.8	289.3	292.2	293.6	295.8	297.2	298.0	298.0	298.0	298.0	297.2
40°	287.1	290.0	292.2	294.3	296.5	298.0	298.0	298.7	299.4	299.4	299.4
42.5°	287.8	290.7	293.6	295.8	297.2	298.0	298.7	299.4	299.4	299.4	299.4
45°	287.1	288.6	288.6	289.3	289.3	289.3	290.0	290.0	289.3	288.6	290.0
47.5°	276.3	276.3	274.1	273.4	272.6	271.2	271.9	271.2	270.5	269.8	271.2
50°	257.5	254.6	253.1	251.7	251.0	249.5	250.2	249.5	248.8	247.3	249.5
52.5°	235.0	234.3	231.4	230.0	229.3	230.0	228.5	227.8	227.1	226.4	227.1
55°	213.3	210.5	209.7	208.3	207.6	208.3	207.6	206.8	206.1	205.4	206.1
57.5°	193.8	191.6	190.9	189.5	189.5	189.5	189.5	188.8	188.0	187.3	188.0
60°	175.0	173.6	172.8	172.8	172.1	172.1	172.1	171.4	170.7	170.7	171.4
62.5°	159.1	159.1	156.9	156.2	156.2	156.9	156.2	155.5	154.8	154.0	155.5
65°	142.5	139.6	138.9	137.4	136.0	136.7	136.0	135.2	134.5	133.8	135.2
67.5°	122.2	121.5	118.6	117.2	116.4	117.2	116.4	115.7	115.0	114.3	115.7
70°	102.7	102.7	99.8	99.1	98.4	98.4	97.6	97.6	96.9	96.2	97.6
72.5°	85.3	85.3	84.6	83.2	82.4	81.7	81.0	80.3	80.3	81.0	81.0
75°	70.9	69.4	66.5	67.3	66.5	65.8	65.8	65.1	64.4	65.8	65.1
77.5°	55.7	55.0	52.8	53.5	52.8	52.1	52.1	51.3	50.6	51.3	51.3
80°	41.9	41.9	41.2	40.5	40.5	39.8	39.1	39.1	38.3	39.1	39.1
82.5°	30.4	30.4	29.7	28.9	28.2	28.2	27.5	27.5	27.5	27.5	27.5
85°	19.5	18.8	18.8	17.4	17.4	17.4	16.6	16.6	16.6	16.6	16.6
87.5°	9.4	9.4	8.7	8.7	8.0	7.2	7.2	6.5	6.5	7.2	7.2
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1633.0	1642.4	1634.4	1638.0	1638.8	1651.1	1650.3	1653.2	1648.2	1642.4	1634.4
5°	1716.2	1711.8	1706.0	1719.8	1712.5	1721.2	1724.1	1729.9	1729.9	1729.2	1722.7
7.5°	1609.8	1600.4	1607.7	1612.7	1614.9	1609.1	1620.7	1633.7	1644.6	1651.1	1651.8
10°	1526.7	1529.6	1528.8	1531.0	1536.1	1535.4	1542.6	1549.8	1552.7	1557.0	1558.5
12.5°	1487.6	1486.9	1488.3	1493.4	1496.3	1495.6	1502.8	1507.1	1508.6	1509.3	1508.6
15°	1456.5	1451.5	1455.1	1455.8	1458.0	1458.0	1466.6	1473.2	1476.1	1477.5	1476.1
17.5°	1397.9	1385.7	1397.2	1397.2	1405.2	1403.7	1417.5	1428.3	1434.1	1438.4	1438.4
20°	1340.1	1334.3	1338.6	1337.2	1343.0	1342.3	1350.9	1358.2	1363.2	1366.8	1371.2
22.5°	1316.9	1318.4	1311.9	1312.6	1312.6	1311.9	1316.2	1319.8	1321.3	1323.5	1322.0
25°	1301.8	1303.2	1301.0	1297.4	1296.0	1297.4	1299.6	1303.9	1304.7	1303.2	1298.1
27.5°	1286.6	1282.2	1285.8	1279.3	1277.9	1280.8	1283.7	1284.4	1285.1	1285.1	1280.8
30°	1263.4	1259.8	1263.4	1260.5	1257.6	1260.5	1262.7	1262.7	1264.2	1264.9	1259.8
32.5°	883.0	890.3	1007.4	1078.3	1178.1	1228.7	1238.1	1238.1	1239.6	1239.6	1235.2
35°	300.9	301.6	326.2	353.6	412.2	484.5	579.3	628.5	794.8	993.7	1186.0
37.5°	297.2	296.5	295.8	295.1	294.3	293.6	292.2	291.4	295.8	350.8	475.9
40°	298.7	298.0	296.5	295.8	295.1	293.6	292.9	291.4	290.0	288.6	287.1
42.5°	298.7	298.0	297.2	296.5	295.8	295.1	293.6	292.2	290.7	288.6	286.4
45°	288.6	288.6	289.3	289.3	290.0	290.0	290.0	289.3	289.3	288.6	285.7
47.5°	269.8	269.8	271.9	271.9	273.4	274.8	274.8	276.3	278.4	279.9	280.6
50°	248.1	248.1	250.2	251.0	252.4	254.6	256.7	257.5	259.6	262.5	265.4
52.5°	226.4	226.4	228.5	228.5	230.0	232.1	234.3	235.0	237.9	240.8	244.4
55°	206.1	206.1	207.6	208.3	209.0	210.5	212.6	212.6	215.5	217.7	221.3
57.5°	188.0	189.5	189.5	189.5	190.2	191.6	193.1	193.1	195.3	197.4	200.3
60°	170.7	172.1	172.1	172.1	172.8	173.6	175.0	175.0	176.5	177.9	180.8
62.5°	154.8	156.2	156.2	156.9	156.9	157.7	159.1	158.4	159.8	160.6	162.7
65°	134.5	136.0	136.7	137.4	138.1	139.6	141.7	141.0	143.2	144.6	146.8
67.5°	115.0	116.4	116.4	117.2	117.9	119.3	120.8	120.8	122.9	124.4	127.3
70°	96.9	98.4	98.4	99.1	99.8	101.2	102.7	102.0	104.1	105.6	107.8
72.5°	80.3	81.7	81.7	82.4	82.4	83.9	85.3	86.8	86.8	88.2	89.7
75°	65.1	65.8	66.5	66.5	67.3	68.0	69.4	70.9	71.6	72.3	73.8
77.5°	51.3	52.1	52.8	52.8	53.5	54.2	55.0	57.9	59.3	60.0	60.0
80°	39.1	39.8	39.8	39.8	40.5	41.2	42.7	42.7	45.6	45.6	46.3
82.5°	27.5	28.2	28.2	28.2	28.9	30.4	31.1	31.8	33.3	34.0	34.0
85°	16.6	17.4	17.4	17.4	18.1	18.8	20.2	21.0	21.7	21.7	22.4
87.5°	6.5	7.2	8.0	8.0	8.7	9.4	10.1	10.8	11.6	11.6	12.3
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1625.8	1630.8	1625.8	1628.6	1632.3	1625.8	1610.6	1604.8	1602.6	1593.9	1588.1
5°	1716.2	1716.2	1714.0	1719.8	1719.0	1708.9	1693.0	1685.8	1678.5	1669.1	1661.9
7.5°	1651.8	1657.6	1661.2	1683.6	1698.1	1699.5	1709.6	1711.8	1714.7	1711.8	1707.5
10°	1559.2	1557.0	1567.2	1588.1	1600.4	1607.0	1626.5	1635.9	1643.8	1659.7	1676.4
12.5°	1507.1	1510.0	1514.4	1529.6	1541.1	1538.2	1546.2	1552.7	1562.1	1578.0	1601.9
15°	1472.4	1475.3	1479.7	1491.2	1498.5	1494.9	1499.2	1503.5	1510.0	1518.0	1532.5
17.5°	1434.8	1439.9	1445.0	1457.2	1463.8	1463.0	1466.6	1468.1	1470.3	1475.3	1485.5
20°	1376.2	1392.2	1402.3	1418.9	1428.3	1426.9	1433.4	1435.6	1438.4	1443.5	1447.8
22.5°	1322.7	1327.1	1332.1	1350.2	1366.1	1385.7	1390.0	1395.8	1403.0	1408.1	1412.4
25°	1292.4	1289.5	1291.6	1303.9	1312.6	1314.1	1320.6	1339.4	1358.9	1367.6	1377.7
27.5°	1274.3	1271.4	1270.7	1276.4	1277.9	1274.3	1272.8	1278.6	1293.1	1307.5	1337.9
30°	1254.8	1251.1	1248.2	1253.3	1255.5	1250.4	1241.0	1235.9	1244.6	1248.2	1260.5
32.5°	1231.6	1228.0	1226.5	1229.4	1230.9	1226.5	1216.4	1210.6	1209.2	1206.3	1209.2
35°	1205.6	1202.0	1199.8	1200.5	1203.4	1199.8	1191.1	1183.9	1180.3	1172.3	1166.5
37.5°	621.2	880.1	1142.7	1170.1	1173.0	1172.3	1163.6	1155.7	1152.1	1142.7	1139.8
40°	284.2	317.5	476.6	622.7	898.2	1141.2	1133.3	1125.3	1118.8	1115.9	1105.0
42.5°	283.5	284.2	284.9	281.3	348.6	593.7	876.5	1094.2	1089.9	1082.6	1074.7
45°	283.5	279.9	282.8	278.4	279.9	279.2	347.9	561.2	998.7	1043.6	1040.0
47.5°	280.6	278.4	281.3	277.7	273.4	275.5	272.6	276.3	431.0	731.2	1001.6
50°	267.6	269.0	274.1	273.4	269.8	272.6	267.6	271.9	268.3	294.3	567.0
52.5°	248.1	251.0	256.0	260.4	261.8	265.4	264.0	265.4	262.5	263.2	264.0
55°	224.9	228.5	232.9	239.4	242.3	248.1	252.4	254.6	258.2	257.5	251.7
57.5°	203.2	206.8	210.5	217.0	223.5	226.4	234.3	238.7	248.1	245.9	244.4
60°	183.0	185.9	189.5	190.9	198.9	203.9	211.2	215.5	227.8	230.7	235.0
62.5°	164.9	166.3	169.2	171.4	176.5	181.5	185.1	192.4	198.9	208.3	214.8
65°	148.3	149.7	151.9	153.3	154.0	161.3	163.4	171.4	173.6	183.7	189.5
67.5°	129.5	132.3	135.2	136.7	138.1	142.5	143.9	147.5	152.6	156.9	164.2
70°	109.9	112.1	115.0	117.2	120.1	122.9	127.3	129.5	133.1	136.0	141.7
72.5°	91.8	94.0	95.5	97.6	99.8	102.0	105.6	110.6	113.5	118.6	120.1
75°	74.5	76.7	78.1	79.6	81.7	83.2	84.6	89.7	92.6	96.9	101.2
77.5°	61.5	61.5	62.9	67.3	66.5	66.5	68.0	70.9	73.0	75.9	80.3
80°	47.7	48.5	49.2	52.8	53.5	54.2	53.5	55.7	57.9	58.6	61.5
82.5°	35.4	36.2	36.2	38.3	40.5	40.5	40.5	41.2	43.4	44.1	45.6
85°	23.9	24.6	25.3	26.0	27.5	28.2	28.9	28.9	30.4	31.1	31.8
87.5°	13.0	14.5	15.2	15.9	16.6	17.4	18.1	18.8	19.5	20.2	21.0
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1586.0	1582.4	1580.2	1574.4	1573.0	1563.6	1565.0	1563.6	1563.6	1565.7	1573.0
5°	1654.0	1636.6	1632.3	1620.0	1609.8	1592.5	1581.6	1575.9	1567.2	1563.6	1568.6
7.5°	1700.2	1687.2	1676.4	1665.5	1651.1	1630.8	1615.6	1598.3	1583.8	1570.1	1566.5
10°	1692.3	1706.8	1706.8	1700.2	1686.5	1666.3	1648.2	1626.5	1601.2	1579.5	1566.5
12.5°	1625.0	1650.3	1670.6	1685.8	1699.5	1685.8	1667.7	1650.3	1622.1	1590.3	1566.5
15°	1551.3	1577.3	1602.6	1634.4	1667.7	1681.4	1680.7	1660.5	1635.2	1601.9	1568.6
17.5°	1499.2	1517.3	1531.0	1565.7	1606.2	1641.7	1665.5	1667.0	1642.4	1612.7	1569.3
20°	1460.1	1473.2	1484.7	1504.3	1539.7	1583.1	1627.2	1651.8	1647.4	1614.9	1571.5
22.5°	1424.7	1434.1	1443.5	1458.0	1486.2	1514.4	1565.7	1616.4	1638.0	1611.3	1569.3
25°	1389.3	1399.4	1406.6	1416.7	1439.2	1462.3	1498.5	1561.4	1609.8	1608.4	1565.0
27.5°	1347.3	1361.1	1369.7	1383.5	1398.7	1416.0	1440.6	1499.9	1569.3	1593.9	1553.4
30°	1296.7	1316.9	1330.0	1345.2	1358.2	1373.4	1392.9	1429.0	1515.1	1565.7	1541.1
32.5°	1223.7	1259.8	1288.7	1303.2	1317.7	1330.7	1348.0	1378.4	1448.6	1527.4	1527.4
35°	1171.6	1188.2	1214.3	1256.2	1274.3	1287.3	1303.2	1327.1	1371.9	1481.8	1505.0
37.5°	1131.1	1137.6	1150.6	1191.8	1225.8	1246.8	1262.7	1277.9	1322.0	1419.6	1476.1
40°	1100.7	1098.5	1097.1	1116.6	1165.1	1198.3	1216.4	1231.6	1265.6	1345.2	1437.7
42.5°	1065.3	1063.1	1055.9	1060.9	1084.8	1140.5	1168.0	1184.6	1212.8	1267.0	1395.8
45°	1028.4	1024.8	1021.9	1016.8	1025.5	1056.6	1113.0	1137.6	1153.5	1202.0	1343.0
47.5°	990.8	985.7	982.1	977.8	972.7	987.2	1040.7	1084.8	1112.3	1142.7	1279.3
50°	937.3	943.8	939.4	934.4	930.0	927.1	949.6	1021.9	1055.9	1080.5	1202.0
52.5°	441.9	859.2	895.3	890.3	884.5	879.4	884.5	939.4	1000.9	1020.4	1108.7
55°	251.7	382.6	796.2	841.8	836.7	829.5	825.2	844.0	935.8	961.9	1023.3
57.5°	242.3	243.0	351.5	758.6	786.8	780.3	775.3	779.6	857.7	901.8	948.8
60°	234.3	234.3	234.3	335.6	725.4	727.5	721.0	713.8	747.8	834.6	873.6
62.5°	217.0	221.3	223.5	223.5	331.2	671.9	665.3	663.2	664.6	753.6	798.4
65°	194.5	204.7	209.0	211.9	211.9	347.9	608.2	604.6	599.5	633.5	722.5
67.5°	170.0	180.1	189.5	195.3	196.0	202.5	363.0	544.6	537.3	538.1	641.5
70°	144.6	153.3	163.4	172.1	180.1	183.7	189.5	452.0	475.9	465.7	549.6
72.5°	125.1	128.7	136.0	144.6	154.0	162.7	167.8	180.1	412.9	402.1	418.0
75°	104.1	107.0	112.1	117.9	125.1	135.2	143.9	152.6	219.1	337.0	334.8
77.5°	81.0	86.1	91.8	95.5	99.1	106.3	117.9	126.6	135.2	227.8	268.3
80°	62.2	65.8	68.7	72.3	76.7	81.7	86.1	96.2	106.3	114.3	205.4
82.5°	46.3	48.5	50.6	52.1	53.5	56.4	64.4	68.0	74.5	81.7	96.9
85°	32.5	34.0	35.4	36.2	36.9	37.6	40.5	41.2	47.7	49.2	58.6
87.5°	21.0	21.7	23.1	23.9	23.9	24.6	25.3	25.3	25.3	23.9	28.9
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: P1213001

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1578.0	1578.0
2.5°	1578.7	1590.3
5°	1576.6	1591.8
7.5°	1570.8	1585.3
10°	1562.1	1579.5
12.5°	1552.7	1569.3
15°	1544.8	1557.0
17.5°	1536.1	1543.3
20°	1524.5	1530.3
22.5°	1512.9	1510.0
25°	1499.9	1493.4
27.5°	1483.3	1471.0
30°	1468.1	1446.4
32.5°	1453.6	1418.2
35°	1434.1	1389.3
37.5°	1413.9	1359.6
40°	1390.0	1325.6
42.5°	1364.7	1291.6
45°	1332.9	1259.1
47.5°	1304.7	1220.0
50°	1265.6	1178.1
52.5°	1217.9	1139.0
55°	1161.5	1091.3
57.5°	1100.7	1041.4
60°	1035.6	984.3
62.5°	956.8	925.0
65°	864.2	857.0
67.5°	743.4	781.8
70°	609.7	695.7
72.5°	509.9	604.6
75°	418.0	502.6
77.5°	331.2	394.1
80°	206.8	288.6
82.5°	138.9	189.5
85°	83.9	90.4
87.5°	32.5	33.3
90°	0.0	0.0

(END OF REPORT)