

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: P1213352

Luminaire Tested: 2SNLED-LD5-40HL-RW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213352
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-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

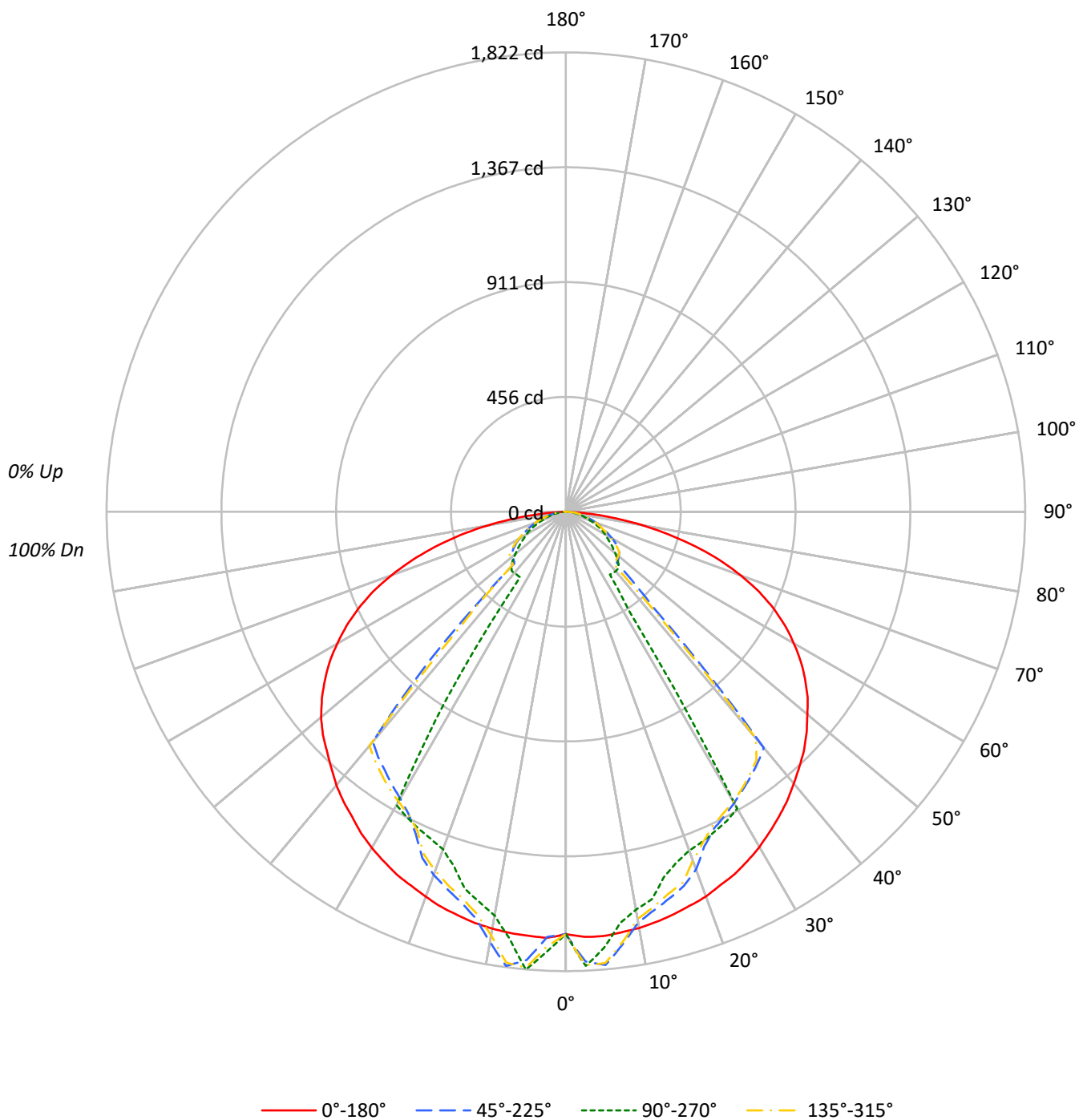
Lumens per Lamp: N/A
Luminaire Lumens: 3354.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L935-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213352

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87		
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75		
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65		
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57		
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51		
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46		
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41		
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37		
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34		
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27070	27070	27070	27070
5°	27261	27274	27248	28625
10°	27212	24659	27249	25036
15°	27196	22815	27260	23537
20°	27314	21639	27314	21558
25°	27466	21226	27506	21027
30°	27653	20851	27721	20604
35°	27874	4750	27931	4953
40°	28206	4938	28376	5099
45°	28749	4911	28848	5090
50°	29260	4440	29656	4560
55°	29964	3942	30202	3999
60°	30470	3504	30538	3549
65°	30674	3057	30597	3009
70°	29779	2464	29686	2375
75°	27014	1896	27206	1818
80°	21048	1348	21893	1234
85°	10373	806	10957	620

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 57.5°

Luminance: 31357 cd/sqm

TEST NUMBER: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	4.9
10°-20°	453.1	13.5
20°-30°	671.1	20.0
30°-40°	676.2	20.2
40°-50°	528.2	15.7
50°-60°	408.0	12.2
60°-70°	273.9	8.2
70°-80°	139.7	4.2
80°-90°	38.9	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°	1289.0	38.4
0°-40°	1965.2	58.6
0°-60°	2901.4	86.5
0°-90°	3354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3354.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1675	1675	1675	1675	1675	
5°	1690	1736	1689	1822	1690	161
15°	1653	1501	1656	1548	1653	467
25°	1585	1399	1587	1386	1585	731
35°	1475	304	1478	317	1475	924
45°	1336	296	1341	306	1336	1030
55°	1158	215	1168	218	1158	1034
65°	910	144	907	142	910	895
75°	534	73	537	70	534	558
85°	96	23	101	18	96	132
90°	0	0	0	0	0	

TEST NUMBER: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1688.0	1694.1	1698.7	1701.8	1703.3	1703.3	1704.1	1704.8	1714.8	1719.4	1722.5
5°	1689.5	1695.6	1704.8	1717.1	1727.9	1737.1	1744.8	1755.5	1766.2	1777.8	1781.6
7.5°	1682.6	1690.3	1708.7	1730.9	1751.7	1766.2	1776.2	1783.1	1788.5	1789.3	1793.1
10°	1676.4	1690.3	1715.6	1744.8	1770.9	1788.5	1788.5	1784.7	1790.0	1769.3	1748.6
12.5°	1665.7	1681.0	1715.6	1754.0	1778.5	1785.4	1782.4	1767.0	1735.5	1710.2	1698.7
15°	1652.6	1673.4	1716.4	1759.3	1780.1	1782.4	1753.2	1714.0	1690.3	1674.9	1655.7
17.5°	1638.1	1665.7	1717.1	1760.1	1767.8	1757.0	1701.8	1677.2	1652.6	1616.6	1590.5
20°	1624.2	1651.1	1711.0	1749.4	1754.0	1705.6	1662.6	1636.5	1595.1	1563.6	1552.1
22.5°	1602.7	1634.2	1705.6	1734.8	1717.1	1661.1	1619.6	1578.2	1540.6	1531.4	1517.5
25°	1585.1	1618.1	1693.3	1717.1	1670.3	1620.4	1572.0	1523.7	1506.0	1493.0	1480.7
27.5°	1561.3	1602.0	1677.2	1684.9	1620.4	1576.6	1506.0	1484.5	1468.4	1453.8	1448.5
30°	1535.2	1585.1	1654.9	1640.4	1579.0	1514.5	1462.3	1442.3	1430.8	1415.5	1409.3
32.5°	1505.3	1559.8	1630.4	1588.9	1534.4	1453.8	1420.1	1404.7	1389.4	1377.8	1339.5
35°	1474.6	1537.5	1601.2	1539.8	1480.7	1407.8	1377.8	1364.0	1349.4	1307.2	1267.3
37.5°	1443.1	1512.9	1565.9	1486.8	1409.3	1360.2	1334.9	1319.5	1286.5	1232.8	1212.8
40°	1407.0	1483.0	1520.6	1432.3	1347.1	1311.8	1288.0	1272.7	1198.2	1174.4	1168.3
42.5°	1370.9	1453.8	1465.3	1379.4	1295.7	1260.4	1240.4	1189.8	1139.1	1126.8	1129.1
45°	1336.4	1422.4	1404.7	1304.2	1242.0	1212.8	1179.0	1109.2	1082.3	1088.5	1090.0
47.5°	1294.9	1384.7	1341.0	1228.9	1186.7	1157.5	1082.3	1040.1	1036.3	1044.7	1049.3
50°	1250.4	1342.5	1273.4	1160.6	1126.8	1092.3	1007.1	985.6	990.2	998.6	1004.0
52.5°	1209.0	1294.9	1203.6	1096.9	1067.7	988.7	931.1	934.9	942.6	952.6	955.7
55°	1158.3	1237.4	1129.1	1032.4	1004.8	901.2	875.1	884.3	892.0	900.4	906.5
57.5°	1105.3	1171.4	1040.9	960.3	915.7	823.6	825.9	832.1	837.5	847.4	350.0
60°	1044.7	1096.1	944.1	893.5	805.2	762.2	764.5	775.3	780.6	436.0	241.0
62.5°	981.8	1008.6	856.6	817.5	703.9	700.8	711.6	716.2	487.4	230.3	225.7
65°	909.6	904.2	770.7	708.5	634.8	637.9	649.4	626.4	215.7	215.7	214.2
67.5°	829.8	797.5	687.0	586.4	568.0	574.9	587.2	204.9	199.6	201.1	195.7
70°	738.4	693.1	600.3	496.6	502.8	509.7	198.0	185.8	183.5	179.6	168.9
72.5°	641.7	579.5	491.3	431.4	435.2	273.3	173.5	167.3	159.7	152.0	140.5
75°	533.5	452.9	360.8	360.8	366.1	155.8	151.2	141.2	132.8	122.8	115.9
77.5°	418.3	348.5	280.2	290.9	142.0	130.5	122.0	111.3	104.4	98.3	94.4
80°	306.3	243.3	211.1	188.8	110.5	99.0	90.6	84.4	81.4	77.5	72.9
82.5°	201.1	146.6	146.6	89.0	77.5	68.3	66.0	61.4	58.3	56.0	53.7
85°	95.9	85.2	64.5	54.5	48.4	43.8	42.2	39.9	39.9	39.1	38.4
87.5°	35.3	38.4	28.4	27.6	26.1	25.3	26.1	26.1	26.9	26.1	25.3
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1730.2	1736.3	1740.9	1748.6	1758.6	1767.0	1774.7	1785.4	1802.3	1806.9	1810.8
5°	1781.6	1783.9	1789.3	1795.4	1796.9	1800.8	1800.0	1804.6	1806.9	1812.3	1800.8
7.5°	1784.7	1772.4	1757.8	1744.8	1735.5	1727.1	1721.7	1730.2	1734.8	1738.6	1727.1
10°	1720.2	1705.6	1697.2	1689.5	1680.3	1667.2	1649.6	1653.4	1651.9	1651.9	1648.0
12.5°	1679.5	1658.8	1637.3	1618.1	1609.7	1608.9	1609.7	1618.1	1618.1	1617.3	1612.7
15°	1615.8	1595.8	1585.1	1580.5	1580.5	1578.2	1578.2	1587.4	1585.1	1585.1	1582.8
17.5°	1573.6	1559.8	1552.1	1546.7	1544.4	1548.2	1552.9	1556.7	1557.5	1554.4	1542.1
20°	1539.0	1526.0	1516.8	1518.3	1517.5	1519.8	1522.1	1509.1	1493.0	1471.5	1461.5
22.5°	1503.0	1493.0	1486.1	1486.1	1476.9	1462.3	1440.8	1436.2	1433.9	1423.9	1415.5
25°	1468.4	1456.9	1446.9	1416.2	1397.0	1399.3	1395.5	1387.8	1387.1	1386.3	1389.4
27.5°	1433.9	1403.9	1365.6	1361.0	1353.3	1352.5	1357.1	1361.0	1361.0	1364.0	1367.9
30°	1362.5	1327.9	1321.0	1312.6	1315.7	1326.4	1328.7	1334.1	1335.6	1341.0	1344.1
32.5°	1297.2	1281.9	1275.7	1279.6	1289.6	1298.8	1304.2	1306.5	1310.3	1314.9	1318.7
35°	1244.3	1239.7	1245.0	1253.5	1263.5	1271.1	1275.7	1280.4	1284.2	1288.0	1291.1
37.5°	1205.1	1208.2	1215.9	1226.6	1236.6	1242.7	1246.6	1252.0	1257.3	1261.9	1243.5
40°	1168.3	1176.0	1184.4	1195.9	1204.4	1210.5	1214.3	1221.3	1175.2	531.9	291.7
42.5°	1136.0	1144.5	1150.6	1159.8	1169.1	1173.7	1139.9	508.9	287.8	286.3	290.2
45°	1096.9	1103.8	1113.8	1120.7	1129.1	741.5	283.2	286.3	281.7	284.8	286.3
47.5°	1057.0	1067.7	1073.1	1024.0	304.7	281.7	278.6	281.7	278.6	282.5	280.2
50°	1011.7	1024.7	729.2	275.6	273.3	271.7	274.8	273.3	275.6	278.6	272.5
52.5°	965.6	598.0	267.1	265.6	267.1	265.6	271.0	267.1	267.9	264.8	257.1
55°	327.0	258.7	256.4	255.6	260.2	260.2	260.2	254.1	250.2	242.6	237.2
57.5°	250.2	250.2	249.5	250.2	248.7	247.2	240.3	234.9	229.5	218.8	215.7
60°	237.2	237.2	237.2	237.2	230.3	227.2	216.5	211.9	202.6	197.3	194.2
62.5°	226.4	224.9	218.0	215.7	208.0	199.6	193.4	188.8	179.6	176.5	174.2
65°	211.1	205.7	197.3	188.1	184.2	175.0	171.9	165.0	160.4	158.1	156.6
67.5°	185.8	178.1	171.2	165.0	158.1	155.1	151.2	145.8	142.8	141.2	139.7
70°	158.9	153.5	146.6	142.8	138.2	135.9	130.5	129.0	126.7	124.4	122.0
72.5°	132.8	129.7	126.7	121.3	119.7	118.2	112.8	109.8	106.7	103.6	102.1
75°	111.3	109.0	107.5	102.9	100.6	95.9	92.1	89.8	87.5	85.2	83.7
77.5°	91.3	89.8	85.2	82.1	80.6	76.8	75.2	76.0	74.5	71.4	69.9
80°	71.4	69.9	66.0	66.0	64.5	62.9	61.4	59.9	58.3	56.0	54.5
82.5°	54.5	53.0	51.4	49.9	48.4	47.6	46.8	45.3	43.8	42.2	41.5
85°	38.4	37.6	36.8	36.1	35.3	34.5	33.8	32.2	30.7	29.9	29.2
87.5°	26.1	25.3	24.6	23.8	23.0	22.3	21.5	20.7	19.2	18.4	17.7
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1810.8	1814.6	1810.8	1802.3	1796.9	1794.6	1799.3	1799.3	1802.3	1806.2	1806.9
5°	1782.4	1773.2	1762.4	1751.7	1746.3	1743.2	1734.8	1736.3	1738.6	1740.1	1741.7
7.5°	1711.7	1699.5	1684.9	1671.1	1665.7	1661.1	1651.1	1651.1	1651.1	1651.9	1656.5
10°	1639.6	1634.2	1628.1	1618.9	1612.0	1609.7	1601.2	1603.5	1602.0	1604.3	1609.7
12.5°	1605.8	1599.7	1594.3	1585.1	1577.4	1574.3	1570.5	1572.8	1572.0	1575.9	1580.5
15°	1575.1	1572.0	1565.9	1559.0	1552.1	1545.9	1532.1	1527.5	1524.5	1520.6	1526.0
17.5°	1524.5	1503.0	1488.4	1477.6	1470.0	1464.6	1460.7	1460.7	1463.0	1465.3	1470.0
20°	1455.4	1449.2	1442.3	1430.8	1423.1	1420.1	1417.8	1417.8	1421.6	1424.7	1433.1
22.5°	1407.8	1407.0	1404.7	1399.3	1395.5	1395.5	1396.3	1397.8	1403.2	1407.8	1416.2
25°	1385.5	1388.6	1387.1	1384.0	1381.7	1382.4	1380.9	1382.4	1387.8	1392.4	1399.3
27.5°	1367.9	1372.5	1370.9	1366.3	1362.5	1364.0	1366.3	1364.8	1369.4	1374.8	1380.1
30°	1344.1	1344.8	1347.9	1342.5	1341.0	1343.3	1344.1	1345.6	1350.2	1354.0	1358.7
32.5°	1317.2	1323.3	1322.6	1317.2	1317.2	1319.5	1320.3	1268.8	1172.9	1010.2	965.6
35°	1291.1	1298.0	1286.5	1084.6	750.7	400.7	309.3	298.6	300.9	302.4	304.0
37.5°	954.9	452.9	288.6	290.9	293.2	295.5	297.8	300.1	302.4	304.7	305.5
40°	287.1	286.3	288.6	291.7	294.0	295.5	298.6	300.9	303.2	305.5	306.3
42.5°	284.0	285.5	287.8	290.9	294.0	297.1	299.4	302.4	304.0	305.5	306.3
45°	282.5	285.5	288.6	290.9	293.2	294.8	296.3	297.1	296.3	296.3	297.8
47.5°	280.2	283.2	284.0	283.2	284.0	283.2	283.2	283.2	280.9	280.2	280.2
50°	271.7	271.7	270.2	267.1	266.4	265.6	264.1	263.3	260.2	259.4	259.4
52.5°	254.1	253.3	251.0	247.2	245.6	244.1	243.3	242.6	239.5	238.0	238.7
55°	233.4	231.8	229.5	224.9	224.1	222.6	221.8	221.1	218.0	219.5	217.2
57.5°	214.2	211.1	208.0	207.3	204.2	203.4	202.6	201.9	199.6	200.3	198.8
60°	191.1	190.4	188.8	185.8	185.8	185.0	185.0	183.5	181.9	181.2	181.2
62.5°	174.2	171.9	170.4	170.4	168.1	168.1	168.1	166.6	165.0	165.8	165.0
65°	155.8	155.1	154.3	152.8	152.8	152.0	152.0	150.4	148.1	148.9	147.4
67.5°	140.5	138.9	137.4	136.6	133.6	132.0	131.3	130.5	127.4	128.2	126.7
70°	121.3	119.0	117.4	115.9	113.6	112.1	112.1	110.5	108.2	109.0	107.5
72.5°	101.3	99.8	98.3	97.5	95.2	94.4	93.6	92.9	90.6	91.3	90.6
75°	84.4	84.4	83.7	82.9	80.6	78.3	76.8	76.0	74.5	75.2	73.7
77.5°	69.9	68.3	66.8	66.8	64.5	62.9	61.4	61.4	61.4	60.6	59.9
80°	54.5	53.0	53.0	52.2	50.7	49.1	48.4	48.4	47.6	47.6	46.8
82.5°	41.5	39.9	39.1	39.1	37.6	36.8	36.1	35.3	35.3	35.3	34.5
85°	29.2	27.6	26.9	26.9	25.3	24.6	24.6	23.8	23.8	23.0	23.0
87.5°	17.7	16.9	16.1	16.1	14.6	13.8	13.8	13.8	13.0	13.0	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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-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°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1806.9	1806.9	1801.6	1803.1	1800.8	1803.9	1800.0	1800.0	1804.6	1804.6	1807.7
5°	1742.5	1738.6	1737.8	1736.3	1728.6	1731.7	1727.9	1724.0	1729.4	1729.4	1736.3
7.5°	1654.2	1647.3	1650.3	1645.7	1641.1	1634.2	1636.5	1633.5	1637.3	1642.7	1649.6
10°	1608.9	1602.7	1606.6	1602.0	1604.3	1594.3	1595.1	1595.8	1599.7	1601.2	1607.4
12.5°	1579.7	1578.2	1576.6	1575.1	1576.6	1571.3	1568.2	1569.0	1570.5	1571.3	1575.9
15°	1518.3	1508.3	1511.4	1500.7	1501.4	1502.2	1496.1	1502.2	1501.4	1511.4	1520.6
17.5°	1468.4	1468.4	1463.0	1458.4	1455.4	1454.6	1450.0	1453.1	1450.0	1456.1	1458.4
20°	1433.9	1433.1	1432.3	1430.0	1422.4	1423.1	1425.4	1418.5	1417.8	1417.0	1421.6
22.5°	1417.8	1418.5	1415.5	1415.5	1408.5	1410.1	1410.8	1403.2	1403.9	1401.6	1403.9
25°	1400.9	1402.4	1398.6	1398.6	1397.0	1396.3	1392.4	1394.0	1389.4	1385.5	1389.4
27.5°	1380.9	1384.0	1380.9	1382.4	1379.4	1377.8	1375.5	1374.0	1369.4	1368.6	1370.9
30°	1362.5	1364.0	1363.3	1359.4	1358.7	1354.0	1356.3	1351.7	1347.1	1347.9	1349.4
32.5°	698.5	667.0	514.3	464.4	459.8	476.7	565.0	687.8	891.2	1088.5	1230.5
35°	304.7	304.7	304.7	304.0	304.0	303.2	302.4	301.7	300.9	300.1	299.4
37.5°	306.3	306.3	306.3	306.3	305.5	304.7	304.7	303.2	302.4	301.7	300.9
40°	307.0	307.8	307.8	307.8	307.0	307.0	306.3	304.7	304.0	302.4	300.9
42.5°	306.3	307.0	307.0	306.3	306.3	305.5	305.5	304.7	304.0	303.2	302.4
45°	296.3	297.1	295.5	295.5	294.8	294.8	294.8	294.8	294.8	295.5	295.5
47.5°	278.6	278.6	277.9	277.1	277.1	276.3	277.1	276.3	277.9	278.6	280.2
50°	257.9	257.9	256.4	255.6	255.6	255.6	255.6	256.4	257.1	258.7	260.2
52.5°	236.4	236.4	235.7	234.9	234.1	234.1	236.4	235.7	236.4	237.2	239.5
55°	215.7	216.5	214.9	214.9	214.2	214.2	214.2	214.9	215.7	216.5	218.8
57.5°	198.0	198.0	196.5	196.5	196.5	195.7	198.0	196.5	197.3	198.0	199.6
60°	180.4	179.6	179.6	178.9	178.9	178.9	180.4	179.6	179.6	180.4	181.9
62.5°	164.3	164.3	163.5	163.5	162.7	162.7	164.3	163.5	163.5	164.3	165.0
65°	145.8	145.8	145.1	144.3	146.6	144.3	146.6	145.1	146.6	147.4	148.9
67.5°	125.1	125.1	125.1	124.4	124.4	125.9	126.7	125.1	125.9	127.4	128.2
70°	106.7	106.7	105.9	105.9	105.9	107.5	108.2	106.7	107.5	108.2	109.8
72.5°	90.6	89.0	89.0	88.3	89.8	89.8	90.6	89.8	90.6	90.6	92.1
75°	74.5	72.9	72.9	72.9	74.5	73.7	74.5	73.7	74.5	74.5	75.2
77.5°	59.9	59.1	58.3	58.3	59.9	59.9	59.9	59.1	59.9	60.6	61.4
80°	46.8	46.1	45.3	45.3	46.8	46.8	46.8	47.6	46.8	47.6	48.4
82.5°	34.5	33.8	33.0	34.5	34.5	34.5	34.5	35.3	34.5	35.3	36.1
85°	23.0	22.3	21.5	23.0	23.0	23.0	23.0	23.8	23.0	23.8	24.6
87.5°	12.3	11.5	11.5	12.3	12.3	12.3	13.0	13.0	13.0	13.8	13.8
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-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°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1812.3	1814.6	1813.8	1809.2	1804.6	1799.3	1795.4	1796.2	1803.9	1806.2	1799.3
5°	1736.3	1750.9	1750.9	1760.9	1755.5	1750.9	1754.0	1770.9	1779.3	1792.3	1796.9
7.5°	1658.0	1664.9	1664.2	1674.1	1672.6	1672.6	1674.9	1697.2	1707.9	1718.7	1721.7
10°	1614.3	1621.2	1620.4	1621.2	1618.9	1613.5	1613.5	1623.5	1632.7	1638.1	1639.6
12.5°	1582.8	1586.6	1585.9	1585.9	1584.3	1579.7	1579.0	1587.4	1597.4	1604.3	1605.0
15°	1536.0	1546.7	1549.0	1559.0	1556.7	1550.6	1552.1	1559.0	1565.1	1571.3	1569.0
17.5°	1466.1	1471.5	1472.3	1476.1	1474.6	1474.6	1483.8	1509.1	1526.0	1540.6	1542.1
20°	1426.2	1430.0	1428.5	1436.9	1433.1	1432.3	1434.6	1445.4	1453.1	1460.0	1472.3
22.5°	1407.0	1410.1	1407.8	1408.5	1401.6	1395.5	1394.0	1402.4	1410.8	1420.1	1420.1
25°	1390.9	1393.2	1392.4	1390.9	1385.5	1377.1	1375.5	1377.1	1380.1	1380.9	1375.5
27.5°	1371.7	1373.2	1373.2	1374.0	1367.1	1359.4	1357.9	1356.3	1359.4	1358.7	1350.2
30°	1351.7	1349.4	1350.2	1351.0	1344.8	1337.9	1334.9	1334.1	1337.2	1336.4	1327.9
32.5°	1304.2	1321.8	1323.3	1324.9	1319.5	1313.4	1310.3	1308.0	1309.5	1308.8	1301.1
35°	298.6	304.0	372.3	842.8	1144.5	1267.3	1280.4	1277.3	1278.1	1278.1	1271.9
37.5°	299.4	298.6	297.8	295.5	293.2	291.7	504.3	1075.4	1245.8	1246.6	1241.2
40°	299.4	298.6	297.8	296.3	293.2	290.9	287.1	284.0	290.9	640.2	1171.4
42.5°	300.9	299.4	297.8	296.3	293.2	290.2	287.1	283.2	285.5	284.0	280.2
45°	296.3	295.5	295.5	294.8	293.2	290.2	286.3	281.7	279.4	281.7	277.9
47.5°	281.7	282.5	284.8	285.5	285.5	286.3	284.0	280.9	277.1	279.4	274.8
50°	261.8	263.3	264.1	267.9	269.4	272.5	273.3	273.3	272.5	275.6	272.5
52.5°	240.3	241.8	245.6	247.2	248.7	253.3	254.8	257.1	258.7	263.3	266.4
55°	219.5	220.3	221.8	224.9	227.2	231.0	233.4	235.7	239.5	241.8	251.0
57.5°	200.3	201.1	204.2	204.9	206.5	209.6	211.9	214.9	218.0	219.5	230.3
60°	181.9	182.7	185.0	185.8	186.5	189.6	191.9	194.2	196.5	198.0	205.7
62.5°	165.8	165.8	168.1	168.1	168.9	171.2	172.7	174.2	176.5	177.3	181.2
65°	149.7	150.4	152.0	152.0	152.8	154.3	155.1	155.8	158.1	158.1	161.2
67.5°	129.7	130.5	132.8	134.3	135.1	138.2	138.9	139.7	141.2	142.0	143.5
70°	110.5	111.3	113.6	114.4	115.1	117.4	119.0	121.3	123.6	125.9	127.4
72.5°	92.9	93.6	95.9	95.9	98.3	99.0	100.6	101.3	103.6	105.2	107.5
75°	76.0	76.8	79.1	79.1	81.4	82.1	82.9	83.7	85.2	86.7	88.3
77.5°	62.2	62.2	65.2	66.8	68.3	68.3	69.1	69.1	69.1	69.9	71.4
80°	49.1	49.1	51.4	53.0	54.5	54.5	55.3	56.0	56.8	56.8	57.6
82.5°	36.8	36.8	39.1	39.9	41.5	41.5	41.5	42.2	43.0	42.2	43.8
85°	25.3	25.3	26.9	27.6	29.2	29.2	29.2	29.9	30.7	29.9	30.7
87.5°	14.6	15.4	16.1	16.9	17.7	18.4	18.4	18.4	19.2	19.2	20.0
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-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°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1791.6	1782.4	1781.6	1770.9	1767.8	1768.5	1760.1	1757.0	1743.2	1740.1	1725.6
5°	1798.5	1803.1	1800.8	1800.0	1802.3	1800.8	1794.6	1791.6	1789.3	1783.1	1770.9
7.5°	1722.5	1725.6	1727.9	1737.8	1746.3	1760.9	1776.2	1786.2	1793.9	1795.4	1785.4
10°	1645.0	1659.5	1669.5	1684.9	1697.2	1705.6	1714.8	1723.3	1745.5	1767.8	1780.8
12.5°	1605.0	1608.9	1608.1	1616.6	1625.0	1647.3	1668.8	1681.0	1697.9	1707.9	1731.7
15°	1571.3	1572.0	1574.3	1580.5	1585.1	1592.8	1602.7	1621.2	1654.9	1670.3	1683.3
17.5°	1540.6	1540.6	1542.1	1547.5	1553.6	1560.5	1566.7	1574.3	1591.2	1616.6	1648.8
20°	1491.4	1512.9	1515.2	1514.5	1517.5	1530.6	1532.1	1545.9	1554.4	1564.4	1595.8
22.5°	1418.5	1431.6	1450.0	1478.4	1489.1	1495.3	1499.9	1506.0	1519.1	1530.6	1543.6
25°	1378.6	1387.1	1392.4	1400.9	1423.1	1459.2	1466.1	1473.0	1481.5	1489.9	1506.0
27.5°	1343.3	1342.5	1346.4	1354.0	1360.2	1379.4	1413.1	1440.0	1441.6	1453.8	1467.6
30°	1318.0	1313.4	1308.0	1306.5	1314.9	1324.9	1334.9	1377.1	1406.2	1412.4	1427.0
32.5°	1294.2	1286.5	1278.8	1272.7	1267.3	1275.7	1281.9	1300.3	1337.9	1373.2	1380.9
35°	1265.0	1257.3	1248.1	1241.2	1232.8	1232.0	1231.2	1248.9	1261.2	1303.4	1340.2
37.5°	1235.1	1226.6	1218.9	1211.3	1202.8	1196.7	1192.8	1197.5	1209.0	1227.4	1288.8
40°	1203.6	1193.6	1185.9	1179.8	1168.3	1163.7	1156.0	1152.9	1153.7	1169.8	1202.1
42.5°	719.2	1146.8	1150.6	1143.7	1133.7	1127.6	1119.2	1115.3	1107.6	1115.3	1133.7
45°	277.1	280.2	839.0	1108.4	1096.1	1088.5	1080.8	1076.9	1068.5	1062.4	1079.2
47.5°	271.7	274.8	268.7	380.7	1046.2	1048.5	1039.3	1035.5	1027.0	1022.4	1017.8
50°	267.9	270.2	265.6	267.1	261.8	958.7	997.1	992.5	983.3	977.9	968.7
52.5°	264.1	264.1	261.0	257.1	255.6	256.4	806.7	948.8	938.0	932.6	920.4
55°	251.8	253.3	256.4	250.2	248.7	247.9	245.6	768.4	888.1	882.0	871.2
57.5°	233.4	236.4	244.9	243.3	243.3	237.2	235.7	235.7	713.1	830.5	819.8
60°	211.9	214.9	224.1	227.2	229.5	228.0	226.4	225.7	222.6	751.5	765.3
62.5°	189.6	192.7	195.7	205.7	208.8	212.6	217.2	214.9	211.9	211.9	707.7
65°	165.8	170.4	171.9	181.2	185.0	191.9	195.7	201.1	199.6	198.8	202.6
67.5°	145.1	150.4	151.2	155.1	162.0	165.0	169.6	179.6	184.2	185.8	187.3
70°	127.4	130.5	132.8	134.3	138.9	139.7	148.1	155.1	162.0	169.6	171.9
72.5°	109.8	112.1	116.7	115.1	116.7	119.7	124.4	129.0	135.9	146.6	153.5
75°	89.8	91.3	94.4	95.9	99.0	101.3	104.4	108.2	114.4	119.7	129.0
77.5°	72.2	72.9	75.2	76.0	79.1	81.4	86.7	89.0	92.9	96.7	102.1
80°	58.3	58.3	59.1	59.1	61.4	63.7	67.5	69.9	74.5	77.5	77.5
82.5°	44.5	44.5	46.8	46.8	48.4	48.4	50.7	50.7	53.0	54.5	56.0
85°	31.5	32.2	33.8	33.0	34.5	33.8	35.3	36.8	37.6	36.8	36.1
87.5°	20.7	20.7	22.3	21.5	22.3	22.3	23.8	23.8	24.6	24.6	23.8
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-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°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1720.2	1708.7	1701.8	1693.3	1691.0	1688.7	1691.8	1691.8	1687.2	1683.3	1676.4
5°	1760.1	1747.8	1734.8	1721.0	1707.9	1694.1	1688.7	1688.0	1679.5	1674.9	1672.6
7.5°	1780.8	1774.7	1760.1	1740.9	1721.0	1696.4	1685.6	1679.5	1671.1	1669.5	1669.5
10°	1783.1	1776.2	1768.5	1754.7	1731.7	1699.5	1678.7	1666.5	1658.8	1664.2	1674.1
12.5°	1760.9	1773.9	1767.0	1757.8	1739.4	1700.2	1670.3	1651.9	1649.6	1663.4	1689.5
15°	1704.1	1742.5	1761.6	1752.4	1737.8	1698.7	1656.5	1635.0	1635.0	1663.4	1697.2
17.5°	1661.1	1691.0	1737.8	1745.5	1728.6	1695.6	1643.4	1618.1	1625.0	1666.5	1702.5
20°	1625.8	1644.2	1689.5	1732.5	1716.4	1688.7	1624.2	1598.1	1612.0	1661.9	1710.2
22.5°	1570.5	1607.4	1635.0	1698.7	1704.1	1675.7	1605.0	1573.6	1601.2	1661.9	1706.4
25°	1516.8	1561.3	1590.5	1652.6	1685.6	1659.5	1587.4	1547.5	1589.7	1659.5	1703.3
27.5°	1479.2	1499.9	1552.9	1597.4	1658.0	1638.1	1563.6	1519.1	1575.1	1647.3	1685.6
30°	1439.2	1453.1	1505.3	1547.5	1621.2	1613.5	1539.0	1487.6	1556.7	1635.8	1639.6
32.5°	1395.5	1410.8	1437.7	1499.1	1569.7	1590.5	1511.4	1456.1	1536.7	1618.1	1585.9
35°	1351.0	1362.5	1384.0	1450.0	1509.9	1555.9	1477.6	1420.1	1522.9	1591.2	1534.4
37.5°	1306.5	1318.7	1337.2	1392.4	1446.9	1523.7	1448.5	1384.0	1497.6	1543.6	1480.7
40°	1264.2	1271.1	1290.3	1324.9	1394.7	1490.7	1415.5	1346.4	1471.5	1483.0	1407.8
42.5°	1186.7	1221.3	1238.9	1266.5	1335.6	1445.4	1377.1	1306.5	1442.3	1422.4	1334.9
45°	1103.0	1178.3	1185.9	1213.6	1283.4	1397.0	1341.0	1267.3	1414.7	1370.2	1265.8
47.5°	1034.7	1089.2	1133.7	1156.8	1221.3	1340.2	1307.2	1234.3	1373.2	1304.2	1198.2
50°	974.1	1003.3	1083.8	1100.7	1146.8	1271.9	1267.3	1195.9	1315.7	1221.3	1132.2
52.5°	915.0	935.7	1008.6	1044.7	1082.3	1198.2	1219.7	1158.3	1252.7	1138.3	1065.4
55°	863.5	870.5	910.4	986.4	1020.1	1123.8	1167.5	1114.6	1172.9	1059.3	1000.9
57.5°	810.6	804.4	833.6	931.1	955.7	1047.8	1112.3	1070.0	1108.4	978.7	934.2
60°	755.3	746.9	759.2	823.6	887.3	972.5	1047.0	1020.9	1030.1	898.9	859.7
62.5°	697.7	689.3	685.5	726.1	820.6	895.0	981.0	966.4	934.2	825.9	767.6
65°	637.9	629.4	623.3	639.4	746.9	794.5	907.3	903.5	829.0	749.2	646.3
67.5°	194.2	572.6	559.6	558.8	629.4	703.1	827.5	821.3	723.1	667.0	556.5
70°	175.0	464.4	493.6	486.7	517.4	610.2	736.1	731.5	620.2	535.0	492.0
72.5°	160.4	164.3	436.0	428.3	435.2	518.9	640.9	628.7	525.8	422.2	425.2
75°	137.4	144.3	150.4	361.5	352.3	429.9	537.3	518.1	433.7	348.5	355.4
77.5°	112.1	120.5	125.1	263.3	284.8	306.3	429.1	403.8	298.6	278.6	132.8
80°	83.7	90.6	98.3	105.2	216.5	214.2	318.6	293.2	208.0	173.5	103.6
82.5°	61.4	63.7	68.3	76.0	86.0	143.5	204.9	180.4	144.3	79.1	71.4
85°	38.4	41.5	43.8	46.1	52.2	86.0	101.3	80.6	60.6	48.4	45.3
87.5°	24.6	24.6	23.8	24.6	25.3	30.7	34.5	33.0	26.1	24.6	24.6
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-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°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1668.8	1658.0	1658.0	1654.9	1657.2	1657.2	1656.5	1657.2	1662.6	1665.7	1671.1
5°	1668.0	1664.9	1671.8	1680.3	1690.3	1702.5	1705.6	1716.4	1726.3	1739.4	1753.2
7.5°	1678.0	1688.7	1701.8	1715.6	1735.5	1750.1	1763.2	1776.2	1785.4	1797.7	1805.4
10°	1692.6	1714.0	1736.3	1754.0	1775.5	1787.7	1796.2	1797.7	1784.7	1763.9	1747.1
12.5°	1713.3	1738.6	1759.3	1776.2	1786.2	1781.6	1757.0	1731.7	1717.1	1695.6	1665.7
15°	1730.9	1754.0	1775.5	1768.5	1741.7	1716.4	1697.2	1667.2	1638.1	1618.1	1605.0
17.5°	1738.6	1760.9	1753.2	1717.1	1691.8	1662.6	1623.5	1600.4	1581.3	1565.9	1558.2
20°	1743.2	1739.4	1697.9	1671.8	1622.7	1595.8	1570.5	1549.0	1534.4	1526.8	1525.2
22.5°	1730.9	1684.1	1648.8	1602.0	1565.9	1543.6	1523.7	1506.0	1496.1	1489.9	1486.1
25°	1690.3	1635.8	1583.6	1546.7	1516.0	1496.8	1481.5	1466.9	1454.6	1451.5	1443.9
27.5°	1633.5	1588.9	1519.8	1491.4	1464.6	1455.4	1438.5	1423.9	1413.1	1403.9	1379.4
30°	1586.6	1516.0	1466.1	1440.0	1423.9	1413.1	1394.0	1378.6	1360.2	1326.4	1312.6
32.5°	1529.1	1459.2	1411.6	1397.0	1377.1	1367.9	1346.4	1312.6	1284.2	1270.4	1269.6
35°	1454.6	1397.0	1362.5	1349.4	1333.3	1318.0	1273.4	1242.7	1228.9	1230.5	1242.0
37.5°	1392.4	1341.0	1318.7	1300.3	1281.9	1242.7	1205.1	1190.5	1194.4	1202.1	1207.4
40°	1329.5	1290.3	1265.0	1250.4	1209.0	1170.6	1150.6	1156.0	1162.9	1168.3	1175.2
42.5°	1268.1	1240.4	1215.1	1186.7	1129.9	1109.2	1113.8	1120.7	1126.8	1134.5	1141.4
45°	1209.7	1185.2	1156.0	1091.5	1063.1	1068.5	1075.4	1080.8	1090.0	1095.4	1102.3
47.5°	1154.5	1128.4	1076.9	1020.1	1017.1	1027.8	1034.0	1040.9	1047.8	1034.0	570.3
50°	1092.3	1065.4	987.1	965.6	972.5	982.5	990.2	997.1	888.1	353.1	271.7
52.5°	1030.9	962.6	912.7	918.8	925.7	937.2	942.6	700.1	278.6	265.6	266.4
55°	962.6	875.1	860.5	868.2	874.3	885.8	587.2	257.1	255.6	254.8	261.0
57.5°	855.1	802.1	808.3	816.0	822.1	580.3	250.2	248.7	249.5	250.2	251.0
60°	759.2	747.6	754.5	761.5	538.9	241.8	237.2	238.0	241.0	238.7	232.6
62.5°	683.2	692.4	699.3	612.5	229.5	227.2	229.5	227.2	221.8	218.0	210.3
65°	624.8	634.0	639.4	215.7	214.9	218.0	215.7	208.0	199.6	188.8	186.5
67.5°	563.4	572.6	204.9	199.6	202.6	198.8	189.6	180.4	174.2	165.0	161.2
70°	499.7	214.2	185.8	185.0	179.6	173.5	163.5	154.3	146.6	142.8	138.9
72.5°	360.8	169.6	167.3	161.2	152.0	143.5	135.1	129.7	125.9	123.6	121.3
75°	150.4	147.4	140.5	129.7	120.5	116.7	110.5	106.7	105.2	100.6	99.0
77.5°	125.9	119.7	109.8	102.1	96.7	94.4	89.8	85.2	82.9	82.1	79.1
80°	96.7	88.3	83.7	79.8	78.3	72.9	67.5	65.2	63.7	62.9	60.6
82.5°	66.0	62.9	59.9	54.5	54.5	52.2	49.9	48.4	46.8	46.8	45.3
85°	43.0	40.7	39.9	37.6	37.6	36.1	35.3	34.5	33.8	33.0	32.2
87.5°	24.6	24.6	25.3	24.6	24.6	23.8	23.0	22.3	21.5	21.5	20.0
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-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°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1678.0	1685.6	1687.2	1713.3	1727.9	1727.1	1722.5	1736.3	1727.9	1723.3	1727.9
5°	1767.0	1776.2	1783.9	1812.3	1822.3	1826.9	1826.1	1833.8	1827.7	1822.3	1822.3
7.5°	1810.8	1813.8	1816.9	1810.0	1805.4	1797.7	1786.2	1769.3	1760.9	1751.7	1740.1
10°	1738.6	1728.6	1732.5	1718.7	1707.1	1698.7	1688.0	1674.1	1662.6	1654.2	1641.1
12.5°	1650.3	1649.6	1651.1	1653.4	1641.9	1635.0	1626.5	1616.6	1608.1	1598.9	1588.2
15°	1596.6	1597.4	1603.5	1601.2	1597.4	1593.5	1584.3	1581.3	1573.6	1563.6	1557.5
17.5°	1558.2	1562.1	1568.2	1565.1	1559.0	1555.2	1548.2	1541.3	1534.4	1526.8	1517.5
20°	1524.5	1528.3	1532.1	1528.3	1516.8	1511.4	1502.2	1480.7	1465.3	1450.0	1436.2
22.5°	1487.6	1489.9	1486.8	1474.6	1445.4	1431.6	1420.8	1414.7	1401.6	1393.2	1384.7
25°	1441.6	1428.5	1408.5	1394.7	1383.2	1377.1	1372.5	1371.7	1370.2	1368.6	1364.8
27.5°	1366.3	1361.7	1351.0	1345.6	1346.4	1348.7	1349.4	1351.7	1349.4	1346.4	1343.3
30°	1310.3	1312.6	1313.4	1314.9	1318.7	1321.0	1321.8	1324.9	1323.3	1321.0	1319.5
32.5°	1275.0	1280.4	1283.4	1288.0	1290.3	1294.2	1294.2	1298.8	1294.2	1293.4	1291.9
35°	1245.8	1250.4	1252.0	1258.9	1261.2	1265.0	1265.0	1268.8	1265.0	1225.9	967.9
37.5°	1216.6	1221.3	1224.3	1230.5	1231.2	1233.5	1138.3	832.8	537.3	416.0	317.8
40°	1182.1	1187.5	1190.5	1192.8	838.2	531.9	366.1	297.8	297.8	300.1	302.4
42.5°	1145.3	1149.1	800.6	465.9	290.2	289.4	291.7	294.0	296.3	299.4	302.4
45°	900.4	454.4	288.6	281.7	284.0	287.1	290.2	293.2	297.1	300.1	301.7
47.5°	295.5	277.1	280.9	277.9	281.7	285.5	288.6	291.7	292.5	293.2	292.5
50°	273.3	273.3	275.6	275.6	278.6	280.2	280.2	280.2	277.1	276.3	274.0
52.5°	264.1	270.2	267.1	268.7	267.1	264.8	262.5	260.2	255.6	254.1	251.0
55°	259.4	261.8	254.1	251.8	248.7	242.6	239.5	236.4	232.6	231.0	227.2
57.5°	248.7	243.3	234.9	231.0	225.7	219.5	216.5	214.2	210.3	208.8	206.5
60°	228.7	218.0	212.6	208.0	201.9	196.5	194.2	192.7	189.6	188.8	186.5
62.5°	204.2	195.0	190.4	184.2	179.6	176.5	174.2	173.5	170.4	170.4	168.9
65°	177.3	172.7	168.9	162.7	160.4	157.4	156.6	155.8	154.3	153.5	152.0
67.5°	155.8	152.8	147.4	144.3	142.8	140.5	138.9	137.4	134.3	132.8	130.5
70°	136.6	134.3	129.0	126.7	123.6	119.7	117.4	115.9	113.6	112.1	109.8
72.5°	118.2	111.3	107.5	105.2	102.9	99.0	98.3	96.7	94.4	93.6	91.3
75°	95.2	89.8	87.5	86.0	83.7	81.4	81.4	81.4	79.1	78.3	77.5
77.5°	76.0	72.9	71.4	69.9	69.1	67.5	65.2	64.5	62.2	62.2	61.4
80°	58.3	56.8	55.3	54.5	53.7	52.2	50.7	49.9	47.6	47.6	46.8
82.5°	43.0	42.2	41.5	40.7	39.9	39.1	36.8	36.1	34.5	34.5	33.8
85°	30.7	29.9	28.4	27.6	27.6	26.9	24.6	23.8	22.3	22.3	22.3
87.5°	19.2	18.4	17.7	16.9	16.1	15.4	13.8	13.0	13.0	11.5	10.7
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-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°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1718.7	1731.7	1730.2	1739.4	1741.7	1746.3	1747.8	1748.6	1737.1	1746.3	1747.1
5°	1820.0	1822.3	1823.8	1827.7	1831.5	1832.3	1828.4	1823.8	1825.4	1822.3	1814.6
7.5°	1738.6	1727.1	1724.8	1721.7	1720.2	1718.7	1711.7	1717.9	1711.0	1707.9	1697.2
10°	1638.8	1628.1	1627.3	1627.3	1629.6	1628.8	1627.3	1624.2	1630.4	1626.5	1624.2
12.5°	1586.6	1582.8	1585.1	1583.6	1589.7	1591.2	1589.7	1589.7	1588.2	1585.1	1586.6
15°	1555.2	1552.1	1554.4	1552.1	1556.7	1557.5	1553.6	1555.9	1552.1	1548.2	1546.7
17.5°	1513.7	1506.8	1501.4	1493.7	1494.5	1493.0	1488.4	1488.4	1484.5	1474.6	1475.3
20°	1433.9	1427.0	1423.9	1423.9	1427.7	1429.3	1428.5	1430.0	1426.2	1424.7	1418.5
22.5°	1384.0	1383.2	1384.7	1388.6	1394.7	1403.2	1403.9	1403.9	1403.9	1403.2	1395.5
25°	1366.3	1366.3	1367.9	1373.2	1377.8	1384.0	1385.5	1387.1	1385.5	1385.5	1378.6
27.5°	1346.4	1344.8	1347.9	1353.3	1358.7	1363.3	1367.1	1367.9	1365.6	1365.6	1367.9
30°	1321.8	1321.0	1324.9	1330.2	1334.9	1339.5	1343.3	1346.4	1343.3	1343.3	1341.0
32.5°	1296.5	1296.5	1298.0	1265.8	1173.7	1057.0	1059.3	991.7	944.9	885.8	964.1
35°	809.0	588.7	505.8	428.3	373.8	338.5	337.7	326.2	320.9	317.0	316.3
37.5°	305.5	307.0	310.1	311.6	313.9	315.5	316.3	316.3	316.3	316.3	315.5
40°	304.7	307.8	310.1	312.4	314.7	316.3	316.3	317.0	317.8	317.8	317.8
42.5°	305.5	308.6	311.6	313.9	315.5	316.3	317.0	317.8	317.8	317.8	317.8
45°	304.7	306.3	306.3	307.0	307.0	307.0	307.8	307.8	307.0	306.3	307.8
47.5°	293.2	293.2	290.9	290.2	289.4	287.8	288.6	287.8	287.1	286.3	287.8
50°	273.3	270.2	268.7	267.1	266.4	264.8	265.6	264.8	264.1	262.5	264.8
52.5°	249.5	248.7	245.6	244.1	243.3	244.1	242.6	241.8	241.0	240.3	241.0
55°	226.4	223.4	222.6	221.1	220.3	221.1	220.3	219.5	218.8	218.0	218.8
57.5°	205.7	203.4	202.6	201.1	201.1	201.1	201.1	200.3	199.6	198.8	199.6
60°	185.8	184.2	183.5	183.5	182.7	182.7	182.7	181.9	181.2	181.2	181.9
62.5°	168.9	168.9	166.6	165.8	165.8	166.6	165.8	165.0	164.3	163.5	165.0
65°	151.2	148.1	147.4	145.8	144.3	145.1	144.3	143.5	142.8	142.0	143.5
67.5°	129.7	129.0	125.9	124.4	123.6	124.4	123.6	122.8	122.0	121.3	122.8
70°	109.0	109.0	105.9	105.2	104.4	104.4	103.6	103.6	102.9	102.1	103.6
72.5°	90.6	90.6	89.8	88.3	87.5	86.7	86.0	85.2	85.2	86.0	86.0
75°	75.2	73.7	70.6	71.4	70.6	69.9	69.9	69.1	68.3	69.9	69.1
77.5°	59.1	58.3	56.0	56.8	56.0	55.3	55.3	54.5	53.7	54.5	54.5
80°	44.5	44.5	43.8	43.0	43.0	42.2	41.5	41.5	40.7	41.5	41.5
82.5°	32.2	32.2	31.5	30.7	29.9	29.9	29.2	29.2	29.2	29.2	29.2
85°	20.7	20.0	20.0	18.4	18.4	18.4	17.7	17.7	17.7	17.7	17.7
87.5°	10.0	10.0	9.2	9.2	8.4	7.7	7.7	6.9	6.9	7.7	7.7
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-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°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1733.2	1743.2	1734.8	1738.6	1739.4	1752.4	1751.7	1754.7	1749.4	1743.2	1734.8
5°	1821.5	1816.9	1810.8	1825.4	1817.7	1826.9	1830.0	1836.1	1836.1	1835.3	1828.4
7.5°	1708.7	1698.7	1706.4	1711.7	1714.0	1707.9	1720.2	1734.0	1745.5	1752.4	1753.2
10°	1620.4	1623.5	1622.7	1625.0	1630.4	1629.6	1637.3	1645.0	1648.0	1652.6	1654.2
12.5°	1579.0	1578.2	1579.7	1585.1	1588.2	1587.4	1595.1	1599.7	1601.2	1602.0	1601.2
15°	1545.9	1540.6	1544.4	1545.2	1547.5	1547.5	1556.7	1563.6	1566.7	1568.2	1566.7
17.5°	1483.8	1470.7	1483.0	1483.0	1491.4	1489.9	1504.5	1516.0	1522.1	1526.8	1526.8
20°	1422.4	1416.2	1420.8	1419.3	1425.4	1424.7	1433.9	1441.6	1446.9	1450.8	1455.4
22.5°	1397.8	1399.3	1392.4	1393.2	1393.2	1392.4	1397.0	1400.9	1402.4	1404.7	1403.2
25°	1381.7	1383.2	1380.9	1377.1	1375.5	1377.1	1379.4	1384.0	1384.7	1383.2	1377.8
27.5°	1365.6	1361.0	1364.8	1357.9	1356.3	1359.4	1362.5	1363.3	1364.0	1364.0	1359.4
30°	1341.0	1337.2	1341.0	1337.9	1334.9	1337.9	1340.2	1340.2	1341.8	1342.5	1337.2
32.5°	937.2	944.9	1069.3	1144.5	1250.4	1304.2	1314.1	1314.1	1315.7	1315.7	1311.1
35°	319.3	320.1	346.2	375.4	437.5	514.3	614.8	667.0	843.6	1054.7	1258.9
37.5°	315.5	314.7	313.9	313.2	312.4	311.6	310.1	309.3	313.9	372.3	505.1
40°	317.0	316.3	314.7	313.9	313.2	311.6	310.9	309.3	307.8	306.3	304.7
42.5°	317.0	316.3	315.5	314.7	313.9	313.2	311.6	310.1	308.6	306.3	304.0
45°	306.3	306.3	307.0	307.0	307.8	307.8	307.8	307.0	307.0	306.3	303.2
47.5°	286.3	286.3	288.6	288.6	290.2	291.7	291.7	293.2	295.5	297.1	297.8
50°	263.3	263.3	265.6	266.4	267.9	270.2	272.5	273.3	275.6	278.6	281.7
52.5°	240.3	240.3	242.6	242.6	244.1	246.4	248.7	249.5	252.5	255.6	259.4
55°	218.8	218.8	220.3	221.1	221.8	223.4	225.7	225.7	228.7	231.0	234.9
57.5°	199.6	201.1	201.1	201.1	201.9	203.4	204.9	204.9	207.3	209.6	212.6
60°	181.2	182.7	182.7	182.7	183.5	184.2	185.8	185.8	187.3	188.8	191.9
62.5°	164.3	165.8	165.8	166.6	166.6	167.3	168.9	168.1	169.6	170.4	172.7
65°	142.8	144.3	145.1	145.8	146.6	148.1	150.4	149.7	152.0	153.5	155.8
67.5°	122.0	123.6	123.6	124.4	125.1	126.7	128.2	128.2	130.5	132.0	135.1
70°	102.9	104.4	104.4	105.2	105.9	107.5	109.0	108.2	110.5	112.1	114.4
72.5°	85.2	86.7	86.7	87.5	87.5	89.0	90.6	92.1	92.1	93.6	95.2
75°	69.1	69.9	70.6	70.6	71.4	72.2	73.7	75.2	76.0	76.8	78.3
77.5°	54.5	55.3	56.0	56.0	56.8	57.6	58.3	61.4	62.9	63.7	63.7
80°	41.5	42.2	42.2	42.2	43.0	43.8	45.3	45.3	48.4	48.4	49.1
82.5°	29.2	29.9	29.9	29.9	30.7	32.2	33.0	33.8	35.3	36.1	36.1
85°	17.7	18.4	18.4	18.4	19.2	20.0	21.5	22.3	23.0	23.0	23.8
87.5°	6.9	7.7	8.4	8.4	9.2	10.0	10.7	11.5	12.3	12.3	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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1725.6	1730.9	1725.6	1728.6	1732.5	1725.6	1709.4	1703.3	1701.0	1691.8	1685.6
5°	1821.5	1821.5	1819.2	1825.4	1824.6	1813.8	1796.9	1789.3	1781.6	1771.6	1763.9
7.5°	1753.2	1759.3	1763.2	1787.0	1802.3	1803.9	1814.6	1816.9	1820.0	1816.9	1812.3
10°	1654.9	1652.6	1663.4	1685.6	1698.7	1705.6	1726.3	1736.3	1744.8	1761.6	1779.3
12.5°	1599.7	1602.7	1607.4	1623.5	1635.8	1632.7	1641.1	1648.0	1658.0	1674.9	1700.2
15°	1562.8	1565.9	1570.5	1582.8	1590.5	1586.6	1591.2	1595.8	1602.7	1611.2	1626.5
17.5°	1522.9	1528.3	1533.7	1546.7	1553.6	1552.9	1556.7	1558.2	1560.5	1565.9	1576.6
20°	1460.7	1477.6	1488.4	1506.0	1516.0	1514.5	1521.4	1523.7	1526.8	1532.1	1536.7
22.5°	1403.9	1408.5	1413.9	1433.1	1450.0	1470.7	1475.3	1481.5	1489.1	1494.5	1499.1
25°	1371.7	1368.6	1370.9	1384.0	1393.2	1394.7	1401.6	1421.6	1442.3	1451.5	1462.3
27.5°	1352.5	1349.4	1348.7	1354.8	1356.3	1352.5	1351.0	1357.1	1372.5	1387.8	1420.1
30°	1331.8	1327.9	1324.9	1330.2	1332.6	1327.2	1317.2	1311.8	1321.0	1324.9	1337.9
32.5°	1307.2	1303.4	1301.8	1304.9	1306.5	1301.8	1291.1	1285.0	1283.4	1280.4	1283.4
35°	1279.6	1275.7	1273.4	1274.2	1277.3	1273.4	1264.2	1256.6	1252.7	1244.3	1238.1
37.5°	659.4	934.2	1212.8	1242.0	1245.0	1244.3	1235.1	1226.6	1222.8	1212.8	1209.7
40°	301.7	337.0	505.8	660.9	953.4	1211.3	1202.8	1194.4	1187.5	1184.4	1172.9
42.5°	300.9	301.7	302.4	298.6	370.0	630.2	930.3	1161.4	1156.8	1149.1	1140.7
45°	300.9	297.1	300.1	295.5	297.1	296.3	369.2	595.7	1060.1	1107.6	1103.8
47.5°	297.8	295.5	298.6	294.8	290.2	292.5	289.4	293.2	457.5	776.0	1063.1
50°	284.0	285.5	290.9	290.2	286.3	289.4	284.0	288.6	284.8	312.4	601.8
52.5°	263.3	266.4	271.7	276.3	277.9	281.7	280.2	281.7	278.6	279.4	280.2
55°	238.7	242.6	247.2	254.1	257.1	263.3	267.9	270.2	274.0	273.3	267.1
57.5°	215.7	219.5	223.4	230.3	237.2	240.3	248.7	253.3	263.3	261.0	259.4
60°	194.2	197.3	201.1	202.6	211.1	216.5	224.1	228.7	241.8	244.9	249.5
62.5°	175.0	176.5	179.6	181.9	187.3	192.7	196.5	204.2	211.1	221.1	228.0
65°	157.4	158.9	161.2	162.7	163.5	171.2	173.5	181.9	184.2	195.0	201.1
67.5°	137.4	140.5	143.5	145.1	146.6	151.2	152.8	156.6	162.0	166.6	174.2
70°	116.7	119.0	122.0	124.4	127.4	130.5	135.1	137.4	141.2	144.3	150.4
72.5°	97.5	99.8	101.3	103.6	105.9	108.2	112.1	117.4	120.5	125.9	127.4
75°	79.1	81.4	82.9	84.4	86.7	88.3	89.8	95.2	98.3	102.9	107.5
77.5°	65.2	65.2	66.8	71.4	70.6	70.6	72.2	75.2	77.5	80.6	85.2
80°	50.7	51.4	52.2	56.0	56.8	57.6	56.8	59.1	61.4	62.2	65.2
82.5°	37.6	38.4	38.4	40.7	43.0	43.0	43.0	43.8	46.1	46.8	48.4
85°	25.3	26.1	26.9	27.6	29.2	29.9	30.7	30.7	32.2	33.0	33.8
87.5°	13.8	15.4	16.1	16.9	17.7	18.4	19.2	20.0	20.7	21.5	22.3
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9	1674.9
2.5°	1683.3	1679.5	1677.2	1671.1	1669.5	1659.5	1661.1	1659.5	1659.5	1661.9	1669.5
5°	1755.5	1737.1	1732.5	1719.4	1708.7	1690.3	1678.7	1672.6	1663.4	1659.5	1664.9
7.5°	1804.6	1790.8	1779.3	1767.8	1752.4	1730.9	1714.8	1696.4	1681.0	1666.5	1662.6
10°	1796.2	1811.5	1811.5	1804.6	1790.0	1768.5	1749.4	1726.3	1699.5	1676.4	1662.6
12.5°	1724.8	1751.7	1773.2	1789.3	1803.9	1789.3	1770.1	1751.7	1721.7	1688.0	1662.6
15°	1646.5	1674.1	1701.0	1734.8	1770.1	1784.7	1783.9	1762.4	1735.5	1700.2	1664.9
17.5°	1591.2	1610.4	1625.0	1661.9	1704.8	1742.5	1767.8	1769.3	1743.2	1711.7	1665.7
20°	1549.8	1563.6	1575.9	1596.6	1634.2	1680.3	1727.1	1753.2	1748.6	1714.0	1668.0
22.5°	1512.2	1522.1	1532.1	1547.5	1577.4	1607.4	1661.9	1715.6	1738.6	1710.2	1665.7
25°	1474.6	1485.3	1493.0	1503.7	1527.5	1552.1	1590.5	1657.2	1708.7	1707.1	1661.1
27.5°	1430.0	1444.6	1453.8	1468.4	1484.5	1503.0	1529.1	1592.0	1665.7	1691.8	1648.8
30°	1376.3	1397.8	1411.6	1427.7	1441.6	1457.7	1478.4	1516.8	1608.1	1661.9	1635.8
32.5°	1298.8	1337.2	1367.9	1383.2	1398.6	1412.4	1430.8	1463.0	1537.5	1621.2	1621.2
35°	1243.5	1261.2	1288.8	1333.3	1352.5	1366.3	1383.2	1408.5	1456.1	1572.8	1597.4
37.5°	1200.5	1207.4	1221.3	1265.0	1301.1	1323.3	1340.2	1356.3	1403.2	1506.8	1566.7
40°	1168.3	1166.0	1164.4	1185.2	1236.6	1271.9	1291.1	1307.2	1343.3	1427.7	1526.0
42.5°	1130.7	1128.4	1120.7	1126.1	1151.4	1210.5	1239.7	1257.3	1287.3	1344.8	1481.5
45°	1091.5	1087.7	1084.6	1079.2	1088.5	1121.5	1181.3	1207.4	1224.3	1275.7	1425.4
47.5°	1051.6	1046.2	1042.4	1037.8	1032.4	1047.8	1104.6	1151.4	1180.6	1212.8	1357.9
50°	994.8	1001.7	997.1	991.7	987.1	984.1	1007.9	1084.6	1120.7	1146.8	1275.7
52.5°	469.0	911.9	950.3	944.9	938.8	933.4	938.8	997.1	1062.4	1083.1	1176.7
55°	267.1	406.1	845.1	893.5	888.1	880.4	875.8	895.8	993.3	1020.9	1086.2
57.5°	257.1	257.9	373.1	805.2	835.1	828.2	822.9	827.5	910.4	957.2	1007.1
60°	248.7	248.7	248.7	356.2	769.9	772.2	765.3	757.6	793.7	885.8	927.3
62.5°	230.3	234.9	237.2	237.2	351.6	713.1	706.2	703.9	705.4	799.8	847.4
65°	206.5	217.2	221.8	224.9	224.9	369.2	645.6	641.7	636.3	672.4	766.8
67.5°	180.4	191.1	201.1	207.3	208.0	214.9	385.3	578.0	570.3	571.1	680.9
70°	153.5	162.7	173.5	182.7	191.1	195.0	201.1	479.7	505.1	494.3	583.4
72.5°	132.8	136.6	144.3	153.5	163.5	172.7	178.1	191.1	438.3	426.8	443.7
75°	110.5	113.6	119.0	125.1	132.8	143.5	152.8	162.0	232.6	357.7	355.4
77.5°	86.0	91.3	97.5	101.3	105.2	112.8	125.1	134.3	143.5	241.8	284.8
80°	66.0	69.9	72.9	76.8	81.4	86.7	91.3	102.1	112.8	121.3	218.0
82.5°	49.1	51.4	53.7	55.3	56.8	59.9	68.3	72.2	79.1	86.7	102.9
85°	34.5	36.1	37.6	38.4	39.1	39.9	43.0	43.8	50.7	52.2	62.2
87.5°	22.3	23.0	24.6	25.3	25.3	26.1	26.9	26.9	26.9	25.3	30.7
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: P1213352

CATALOG NUMBER: 2SNLED-LD5-40HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1674.9	1674.9
2.5°	1675.7	1688.0
5°	1673.4	1689.5
7.5°	1667.2	1682.6
10°	1658.0	1676.4
12.5°	1648.0	1665.7
15°	1639.6	1652.6
17.5°	1630.4	1638.1
20°	1618.1	1624.2
22.5°	1605.8	1602.7
25°	1592.0	1585.1
27.5°	1574.3	1561.3
30°	1558.2	1535.2
32.5°	1542.9	1505.3
35°	1522.1	1474.6
37.5°	1500.7	1443.1
40°	1475.3	1407.0
42.5°	1448.5	1370.9
45°	1414.7	1336.4
47.5°	1384.7	1294.9
50°	1343.3	1250.4
52.5°	1292.6	1209.0
55°	1232.8	1158.3
57.5°	1168.3	1105.3
60°	1099.2	1044.7
62.5°	1015.5	981.8
65°	917.3	909.6
67.5°	789.1	829.8
70°	647.1	738.4
72.5°	541.2	641.7
75°	443.7	533.5
77.5°	351.6	418.3
80°	219.5	306.3
82.5°	147.4	201.1
85°	89.0	95.9
87.5°	34.5	35.3
90°	0.0	0.0

(END OF REPORT)