

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: P1213415

Luminaire Tested: 4SNLED-LD5-39SL-RW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213415
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-LD5-39SL-RW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

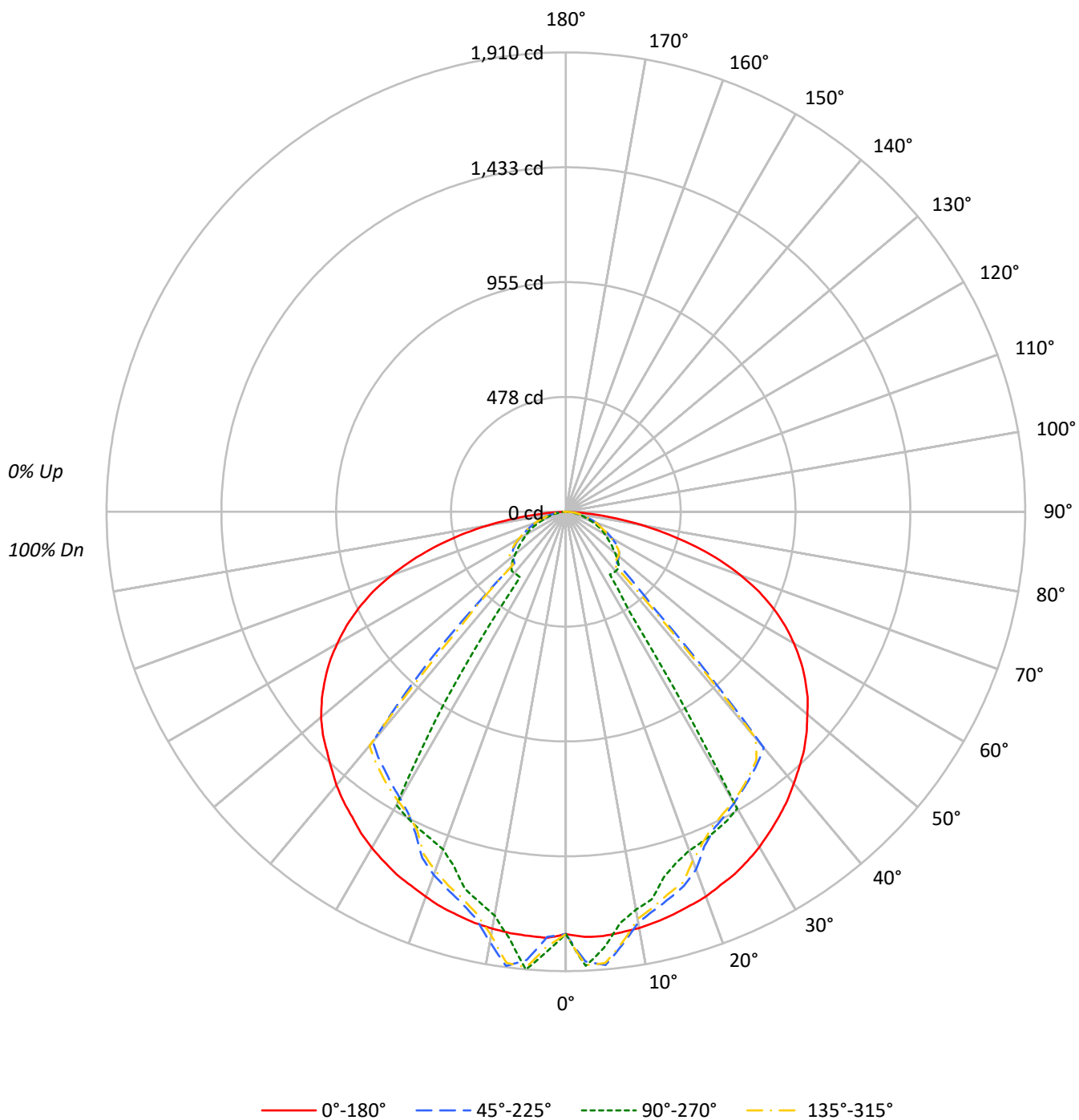
Lumens per Lamp: N/A
Luminaire Lumens: 3516.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 31
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L935-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L935-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92
2	102	94	88	83	99	93	87	82	89	85	81		86	82	79		83
3	94	84	77	72	91	83	76	71	80	74	70		77	73	69		75
4	87	76	68	62	85	75	67	62	72	66	61		70	65	60		68
5	81	69	61	55	79	68	60	55	66	59	54		64	58	53		62
6	75	63	55	49	73	62	54	49	60	53	48		59	53	48		57
7	70	58	50	44	68	57	49	44	55	48	43		54	48	43		53
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49
9	62	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	46	38	33	57	45	38	33	44	38	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14189	14189	14189	14189
5°	14328	14296	14321	15003
10°	14342	12925	14361	13123
15°	14374	11958	14407	12337
20°	14478	11342	14478	11300
25°	14604	11125	14625	11021
30°	14750	10929	14788	10800
35°	14923	2490	14954	2596
40°	15162	2589	15253	2672
45°	15525	2574	15579	2668
50°	15887	2328	16102	2390
55°	16377	2066	16507	2096
60°	16792	1836	16829	1860
65°	17087	1603	17044	1577
70°	16844	1291	16792	1245
75°	15636	994	15751	952
80°	12693	706	13199	647
85°	6873	422	7255	324

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 17205 cd/sqm

TEST NUMBER: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	4.9
10°-20°	475.0	13.5
20°-30°	703.5	20.0
30°-40°	708.9	20.2
40°-50°	553.7	15.7
50°-60°	427.7	12.2
60°-70°	287.2	8.2
70°-80°	146.5	4.2
80°-90°	40.8	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°	1351.3	38.4
0°-40°	2060.1	58.6
0°-60°	3041.6	86.5
0°-90°	3516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3516.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1756	1756	1756	1756	1756	
5°	1771	1820	1770	1910	1771	168
15°	1732	1573	1736	1623	1732	490
25°	1662	1466	1664	1452	1662	767
35°	1546	319	1549	332	1546	969
45°	1401	310	1406	321	1401	1080
55°	1214	225	1224	228	1214	1084
65°	954	151	951	149	954	938
75°	559	76	563	73	559	585
85°	101	24	106	18	101	138
90°	0	0	0	0	0	

TEST NUMBER: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1769.5	1775.9	1780.7	1784.0	1785.6	1785.6	1786.4	1787.2	1797.6	1802.5	1805.7
5°	1771.1	1777.5	1787.2	1800.1	1811.3	1821.0	1829.0	1840.3	1851.6	1863.6	1867.6
7.5°	1763.8	1771.9	1791.2	1814.5	1836.3	1851.6	1862.0	1869.3	1874.9	1875.7	1879.7
10°	1757.4	1771.9	1798.4	1829.0	1856.4	1874.9	1874.9	1870.9	1876.5	1854.8	1833.0
12.5°	1746.1	1762.2	1798.4	1838.7	1864.4	1871.7	1868.5	1852.4	1819.4	1792.8	1780.7
15°	1732.5	1754.2	1799.3	1844.3	1866.0	1868.5	1837.9	1796.8	1771.9	1755.8	1735.7
17.5°	1717.2	1746.1	1800.1	1845.1	1853.2	1841.9	1784.0	1758.2	1732.5	1694.6	1667.3
20°	1702.7	1730.9	1793.6	1833.9	1838.7	1788.0	1742.9	1715.6	1672.1	1639.1	1627.1
22.5°	1680.2	1713.2	1788.0	1818.6	1800.1	1741.3	1697.9	1654.4	1615.0	1605.3	1590.8
25°	1661.7	1696.3	1775.1	1800.1	1751.0	1698.7	1648.0	1597.3	1578.8	1565.1	1552.2
27.5°	1636.7	1679.4	1758.2	1766.3	1698.7	1652.8	1578.8	1556.2	1539.3	1524.1	1518.4
30°	1609.3	1661.7	1734.9	1719.6	1655.2	1587.6	1532.9	1512.0	1499.9	1483.8	1477.4
32.5°	1578.0	1635.1	1709.1	1665.7	1608.5	1524.1	1488.6	1472.6	1456.5	1444.4	1404.2
35°	1545.8	1611.8	1678.6	1614.2	1552.2	1475.8	1444.4	1429.9	1414.6	1370.4	1328.5
37.5°	1512.8	1586.0	1641.5	1558.7	1477.4	1425.9	1399.3	1383.2	1348.6	1292.3	1271.4
40°	1475.0	1554.6	1594.1	1501.5	1412.2	1375.2	1350.2	1334.2	1256.1	1231.2	1224.7
42.5°	1437.1	1524.1	1536.1	1446.0	1358.3	1321.3	1300.4	1247.2	1194.1	1181.3	1183.7
45°	1400.9	1491.1	1472.6	1367.1	1302.0	1271.4	1236.0	1162.8	1134.6	1141.0	1142.6
47.5°	1357.5	1451.6	1405.8	1288.3	1244.0	1213.4	1134.6	1090.3	1086.3	1095.2	1100.0
50°	1310.8	1407.4	1335.0	1216.7	1181.3	1145.1	1055.7	1033.2	1038.0	1046.9	1052.5
52.5°	1267.4	1357.5	1261.7	1149.9	1119.3	1036.4	976.1	980.1	988.1	998.6	1001.8
55°	1214.3	1297.1	1183.7	1082.3	1053.3	944.7	917.3	927.0	935.0	943.9	950.3
57.5°	1158.7	1227.9	1091.1	1006.6	960.0	863.4	865.8	872.3	877.9	888.4	366.9
60°	1095.2	1149.1	989.7	936.6	844.1	799.0	801.5	812.7	818.4	457.1	252.7
62.5°	1029.2	1057.3	898.0	857.0	737.9	734.7	745.9	750.8	511.0	241.4	236.6
65°	953.5	947.9	807.9	742.7	665.5	668.7	680.8	656.6	226.1	226.1	224.5
67.5°	869.9	836.1	720.2	614.8	595.5	602.7	615.6	214.8	209.2	210.8	205.2
70°	774.1	726.6	629.3	520.6	527.1	534.3	207.6	194.7	192.3	188.3	177.0
72.5°	672.7	607.5	515.0	452.2	456.3	286.5	181.9	175.4	167.4	159.3	147.3
75°	559.2	474.8	378.2	378.2	383.8	163.3	158.5	148.1	139.2	128.7	121.5
77.5°	438.5	365.3	293.7	305.0	148.9	136.8	127.9	116.7	109.4	103.0	99.0
80°	321.1	255.1	221.3	197.9	115.9	103.8	95.0	88.5	85.3	81.3	76.4
82.5°	210.8	153.7	153.7	93.3	81.3	71.6	69.2	64.4	61.2	58.7	56.3
85°	100.6	89.3	67.6	57.1	50.7	45.9	44.3	41.8	41.8	41.0	40.2
87.5°	37.0	40.2	29.8	29.0	27.4	26.6	27.4	27.4	28.2	27.4	26.6
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1813.7	1820.2	1825.0	1833.0	1843.5	1852.4	1860.4	1871.7	1889.4	1894.2	1898.2
5°	1867.6	1870.1	1875.7	1882.1	1883.7	1887.8	1887.0	1891.8	1894.2	1899.8	1887.8
7.5°	1870.9	1858.0	1842.7	1829.0	1819.4	1810.5	1804.9	1813.7	1818.6	1822.6	1810.5
10°	1803.3	1788.0	1779.1	1771.1	1761.4	1747.8	1729.2	1733.3	1731.7	1731.7	1727.6
12.5°	1760.6	1738.9	1716.4	1696.3	1687.4	1686.6	1687.4	1696.3	1696.3	1695.4	1690.6
15°	1693.8	1672.9	1661.7	1656.8	1656.8	1654.4	1654.4	1664.1	1661.7	1661.7	1659.2
17.5°	1649.6	1635.1	1627.1	1621.4	1619.0	1623.0	1627.9	1631.9	1632.7	1629.5	1616.6
20°	1613.4	1599.7	1590.0	1591.6	1590.8	1593.3	1595.7	1582.0	1565.1	1542.6	1532.1
22.5°	1575.6	1565.1	1557.8	1557.8	1548.2	1532.9	1510.4	1505.5	1503.1	1492.7	1483.8
25°	1539.3	1527.3	1516.8	1484.6	1464.5	1466.9	1462.9	1454.9	1454.0	1453.2	1456.5
27.5°	1503.1	1471.7	1431.5	1426.7	1418.6	1417.8	1422.7	1426.7	1426.7	1429.9	1433.9
30°	1428.3	1392.1	1384.8	1376.0	1379.2	1390.5	1392.9	1398.5	1400.1	1405.8	1409.0
32.5°	1359.9	1343.8	1337.4	1341.4	1351.9	1361.5	1367.1	1369.6	1373.6	1378.4	1382.4
35°	1304.4	1299.5	1305.2	1314.0	1324.5	1332.5	1337.4	1342.2	1346.2	1350.2	1353.5
37.5°	1263.3	1266.6	1274.6	1285.9	1296.3	1302.8	1306.8	1312.4	1318.1	1322.9	1303.6
40°	1224.7	1232.8	1241.6	1253.7	1262.5	1269.0	1273.0	1280.2	1232.0	557.6	305.8
42.5°	1190.9	1199.8	1206.2	1215.9	1225.5	1230.3	1194.9	533.5	301.8	300.1	304.2
45°	1149.9	1157.1	1167.6	1174.8	1183.7	777.3	296.9	300.1	295.3	298.5	300.1
47.5°	1108.0	1119.3	1124.9	1073.4	319.5	295.3	292.1	295.3	292.1	296.1	293.7
50°	1060.6	1074.2	764.4	288.9	286.5	284.9	288.1	286.5	288.9	292.1	285.7
52.5°	1012.3	626.8	280.0	278.4	280.0	278.4	284.1	280.0	280.8	277.6	269.6
55°	342.8	271.2	268.8	268.0	272.8	272.8	272.8	266.3	262.3	254.3	248.6
57.5°	262.3	262.3	261.5	262.3	260.7	259.1	251.9	246.2	240.6	229.3	226.1
60°	248.6	248.6	248.6	248.6	241.4	238.2	226.9	222.1	212.4	206.8	203.6
62.5°	237.4	235.8	228.5	226.1	218.1	209.2	202.8	197.9	188.3	185.1	182.7
65°	221.3	215.7	206.8	197.1	193.1	183.5	180.2	173.0	168.2	165.8	164.2
67.5°	194.7	186.7	179.4	173.0	165.8	162.5	158.5	152.9	149.7	148.1	146.5
70°	166.6	160.9	153.7	149.7	144.8	142.4	136.8	135.2	132.8	130.4	127.9
72.5°	139.2	136.0	132.8	127.1	125.5	123.9	118.3	115.1	111.8	108.6	107.0
75°	116.7	114.3	112.7	107.8	105.4	100.6	96.6	94.1	91.7	89.3	87.7
77.5°	95.8	94.1	89.3	86.1	84.5	80.5	78.9	79.7	78.1	74.8	73.2
80°	74.8	73.2	69.2	69.2	67.6	66.0	64.4	62.8	61.2	58.7	57.1
82.5°	57.1	55.5	53.9	52.3	50.7	49.9	49.1	47.5	45.9	44.3	43.5
85°	40.2	39.4	38.6	37.8	37.0	36.2	35.4	33.8	32.2	31.4	30.6
87.5°	27.4	26.6	25.7	24.9	24.1	23.3	22.5	21.7	20.1	19.3	18.5
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1898.2	1902.3	1898.2	1889.4	1883.7	1881.3	1886.2	1886.2	1889.4	1893.4	1894.2
5°	1868.5	1858.8	1847.5	1836.3	1830.6	1827.4	1818.6	1820.2	1822.6	1824.2	1825.8
7.5°	1794.4	1781.5	1766.3	1751.8	1746.1	1741.3	1730.9	1730.9	1730.9	1731.7	1736.5
10°	1718.8	1713.2	1706.7	1697.1	1689.8	1687.4	1678.6	1681.0	1679.4	1681.8	1687.4
12.5°	1683.4	1676.9	1671.3	1661.7	1653.6	1650.4	1646.4	1648.8	1648.0	1652.0	1656.8
15°	1651.2	1648.0	1641.5	1634.3	1627.1	1620.6	1606.1	1601.3	1598.1	1594.1	1599.7
17.5°	1598.1	1575.6	1560.3	1549.0	1541.0	1535.3	1531.3	1531.3	1533.7	1536.1	1541.0
20°	1525.7	1519.2	1512.0	1499.9	1491.9	1488.6	1486.2	1486.2	1490.3	1493.5	1502.3
22.5°	1475.8	1475.0	1472.6	1466.9	1462.9	1462.9	1463.7	1465.3	1470.9	1475.8	1484.6
25°	1452.4	1455.7	1454.0	1450.8	1448.4	1449.2	1447.6	1449.2	1454.9	1459.7	1466.9
27.5°	1433.9	1438.8	1437.1	1432.3	1428.3	1429.9	1432.3	1430.7	1435.5	1441.2	1446.8
30°	1409.0	1409.8	1413.0	1407.4	1405.8	1408.2	1409.0	1410.6	1415.4	1419.4	1424.3
32.5°	1380.8	1387.3	1386.5	1380.8	1380.8	1383.2	1384.0	1330.1	1229.5	1059.0	1012.3
35°	1353.5	1360.7	1348.6	1137.0	787.0	420.0	324.3	313.0	315.4	317.0	318.7
37.5°	1001.0	474.8	302.6	305.0	307.4	309.8	312.2	314.6	317.0	319.5	320.3
40°	300.9	300.1	302.6	305.8	308.2	309.8	313.0	315.4	317.8	320.3	321.1
42.5°	297.7	299.3	301.8	305.0	308.2	311.4	313.8	317.0	318.7	320.3	321.1
45°	296.1	299.3	302.6	305.0	307.4	309.0	310.6	311.4	310.6	310.6	312.2
47.5°	293.7	296.9	297.7	296.9	297.7	296.9	296.9	296.9	294.5	293.7	293.7
50°	284.9	284.9	283.2	280.0	279.2	278.4	276.8	276.0	272.8	272.0	272.0
52.5°	266.3	265.5	263.1	259.1	257.5	255.9	255.1	254.3	251.1	249.4	250.3
55°	244.6	243.0	240.6	235.8	235.0	233.4	232.6	231.7	228.5	230.1	227.7
57.5°	224.5	221.3	218.1	217.3	214.0	213.2	212.4	211.6	209.2	210.0	208.4
60°	200.4	199.6	197.9	194.7	194.7	193.9	193.9	192.3	190.7	189.9	189.9
62.5°	182.7	180.2	178.6	178.6	176.2	176.2	176.2	174.6	173.0	173.8	173.0
65°	163.3	162.5	161.7	160.1	160.1	159.3	159.3	157.7	155.3	156.1	154.5
67.5°	147.3	145.6	144.0	143.2	140.0	138.4	137.6	136.8	133.6	134.4	132.8
70°	127.1	124.7	123.1	121.5	119.1	117.5	117.5	115.9	113.5	114.3	112.7
72.5°	106.2	104.6	103.0	102.2	99.8	99.0	98.2	97.4	95.0	95.8	95.0
75°	88.5	88.5	87.7	86.9	84.5	82.1	80.5	79.7	78.1	78.9	77.2
77.5°	73.2	71.6	70.0	70.0	67.6	66.0	64.4	64.4	64.4	63.6	62.8
80°	57.1	55.5	55.5	54.7	53.1	51.5	50.7	50.7	49.9	49.9	49.1
82.5°	43.5	41.8	41.0	41.0	39.4	38.6	37.8	37.0	37.0	37.0	36.2
85°	30.6	29.0	28.2	28.2	26.6	25.7	25.7	24.9	24.9	24.1	24.1
87.5°	18.5	17.7	16.9	16.9	15.3	14.5	14.5	14.5	13.7	13.7	12.9
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1894.2	1894.2	1888.6	1890.2	1887.8	1891.0	1887.0	1887.0	1891.8	1891.8	1895.0
5°	1826.6	1822.6	1821.8	1820.2	1812.1	1815.3	1811.3	1807.3	1812.9	1812.9	1820.2
7.5°	1734.1	1726.8	1730.1	1725.2	1720.4	1713.2	1715.6	1712.3	1716.4	1722.0	1729.2
10°	1686.6	1680.2	1684.2	1679.4	1681.8	1671.3	1672.1	1672.9	1676.9	1678.6	1685.0
12.5°	1656.0	1654.4	1652.8	1651.2	1652.8	1647.2	1644.0	1644.8	1646.4	1647.2	1652.0
15°	1591.6	1581.2	1584.4	1573.1	1573.9	1574.7	1568.3	1574.7	1573.9	1584.4	1594.1
17.5°	1539.3	1539.3	1533.7	1528.9	1525.7	1524.9	1520.0	1523.2	1520.0	1526.5	1528.9
20°	1503.1	1502.3	1501.5	1499.1	1491.1	1491.9	1494.3	1487.0	1486.2	1485.4	1490.3
22.5°	1486.2	1487.0	1483.8	1483.8	1476.6	1478.2	1479.0	1470.9	1471.7	1469.3	1471.7
25°	1468.5	1470.1	1466.1	1466.1	1464.5	1463.7	1459.7	1461.3	1456.5	1452.4	1456.5
27.5°	1447.6	1450.8	1447.6	1449.2	1446.0	1444.4	1442.0	1440.4	1435.5	1434.7	1437.1
30°	1428.3	1429.9	1429.1	1425.1	1424.3	1419.4	1421.9	1417.0	1412.2	1413.0	1414.6
32.5°	732.3	699.3	539.1	486.8	482.0	499.7	592.2	721.0	934.2	1141.0	1289.9
35°	319.5	319.5	319.5	318.7	318.7	317.8	317.0	316.2	315.4	314.6	313.8
37.5°	321.1	321.1	321.1	321.1	320.3	319.5	319.5	317.8	317.0	316.2	315.4
40°	321.9	322.7	322.7	322.7	321.9	321.9	321.1	319.5	318.7	317.0	315.4
42.5°	321.1	321.9	321.9	321.1	321.1	320.3	320.3	319.5	318.7	317.8	317.0
45°	310.6	311.4	309.8	309.8	309.0	309.0	309.0	309.0	309.0	309.8	309.8
47.5°	292.1	292.1	291.3	290.5	290.5	289.7	290.5	289.7	291.3	292.1	293.7
50°	270.4	270.4	268.8	268.0	268.0	268.0	268.0	268.8	269.6	271.2	272.8
52.5°	247.8	247.8	247.0	246.2	245.4	245.4	247.8	247.0	247.8	248.6	251.1
55°	226.1	226.9	225.3	225.3	224.5	224.5	224.5	225.3	226.1	226.9	229.3
57.5°	207.6	207.6	206.0	206.0	206.0	205.2	207.6	206.0	206.8	207.6	209.2
60°	189.1	188.3	188.3	187.5	187.5	187.5	189.1	188.3	188.3	189.1	190.7
62.5°	172.2	172.2	171.4	171.4	170.6	170.6	172.2	171.4	171.4	172.2	173.0
65°	152.9	152.9	152.1	151.3	153.7	151.3	153.7	152.1	153.7	154.5	156.1
67.5°	131.2	131.2	131.2	130.4	130.4	132.0	132.8	131.2	132.0	133.6	134.4
70°	111.8	111.8	111.0	111.0	111.0	112.7	113.5	111.8	112.7	113.5	115.1
72.5°	95.0	93.3	93.3	92.5	94.1	94.1	95.0	94.1	95.0	95.0	96.6
75°	78.1	76.4	76.4	76.4	78.1	77.2	78.1	77.2	78.1	78.1	78.9
77.5°	62.8	62.0	61.2	61.2	62.8	62.8	62.8	62.0	62.8	63.6	64.4
80°	49.1	48.3	47.5	47.5	49.1	49.1	49.1	49.9	49.1	49.9	50.7
82.5°	36.2	35.4	34.6	36.2	36.2	36.2	36.2	37.0	36.2	37.0	37.8
85°	24.1	23.3	22.5	24.1	24.1	24.1	24.1	24.9	24.1	24.9	25.7
87.5°	12.9	12.1	12.1	12.9	12.9	12.9	13.7	13.7	13.7	14.5	14.5
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1899.8	1902.3	1901.4	1896.6	1891.8	1886.2	1882.1	1882.9	1891.0	1893.4	1886.2
5°	1820.2	1835.5	1835.5	1845.9	1840.3	1835.5	1838.7	1856.4	1865.2	1878.9	1883.7
7.5°	1738.1	1745.3	1744.5	1755.0	1753.4	1753.4	1755.8	1779.1	1790.4	1801.7	1804.9
10°	1692.2	1699.5	1698.7	1699.5	1697.1	1691.4	1691.4	1701.9	1711.5	1717.2	1718.8
12.5°	1659.2	1663.3	1662.5	1662.5	1660.8	1656.0	1655.2	1664.1	1674.5	1681.8	1682.6
15°	1610.2	1621.4	1623.8	1634.3	1631.9	1625.4	1627.1	1634.3	1640.7	1647.2	1644.8
17.5°	1536.9	1542.6	1543.4	1547.4	1545.8	1545.8	1555.4	1582.0	1599.7	1615.0	1616.6
20°	1495.1	1499.1	1497.5	1506.4	1502.3	1501.5	1503.9	1515.2	1523.2	1530.5	1543.4
22.5°	1475.0	1478.2	1475.8	1476.6	1469.3	1462.9	1461.3	1470.1	1479.0	1488.6	1488.6
25°	1458.1	1460.5	1459.7	1458.1	1452.4	1443.6	1442.0	1443.6	1446.8	1447.6	1442.0
27.5°	1438.0	1439.6	1439.6	1440.4	1433.1	1425.1	1423.5	1421.9	1425.1	1424.3	1415.4
30°	1417.0	1414.6	1415.4	1416.2	1409.8	1402.5	1399.3	1398.5	1401.7	1400.9	1392.1
32.5°	1367.1	1385.6	1387.3	1388.9	1383.2	1376.8	1373.6	1371.2	1372.8	1372.0	1363.9
35°	313.0	318.7	390.3	883.5	1199.8	1328.5	1342.2	1339.0	1339.8	1339.8	1333.3
37.5°	313.8	313.0	312.2	309.8	307.4	305.8	528.7	1127.3	1306.0	1306.8	1301.2
40°	313.8	313.0	312.2	310.6	307.4	305.0	300.9	297.7	305.0	671.1	1227.9
42.5°	315.4	313.8	312.2	310.6	307.4	304.2	300.9	296.9	299.3	297.7	293.7
45°	310.6	309.8	309.8	309.0	307.4	304.2	300.1	295.3	292.9	295.3	291.3
47.5°	295.3	296.1	298.5	299.3	299.3	300.1	297.7	294.5	290.5	292.9	288.1
50°	274.4	276.0	276.8	280.8	282.4	285.7	286.5	286.5	285.7	288.9	285.7
52.5°	251.9	253.5	257.5	259.1	260.7	265.5	267.2	269.6	271.2	276.0	279.2
55°	230.1	230.9	232.6	235.8	238.2	242.2	244.6	247.0	251.1	253.5	263.1
57.5°	210.0	210.8	214.0	214.8	216.5	219.7	222.1	225.3	228.5	230.1	241.4
60°	190.7	191.5	193.9	194.7	195.5	198.8	201.2	203.6	206.0	207.6	215.7
62.5°	173.8	173.8	176.2	176.2	177.0	179.4	181.1	182.7	185.1	185.9	189.9
65°	156.9	157.7	159.3	159.3	160.1	161.7	162.5	163.3	165.8	165.8	169.0
67.5°	136.0	136.8	139.2	140.8	141.6	144.8	145.6	146.5	148.1	148.9	150.5
70°	115.9	116.7	119.1	119.9	120.7	123.1	124.7	127.1	129.6	132.0	133.6
72.5°	97.4	98.2	100.6	100.6	103.0	103.8	105.4	106.2	108.6	110.2	112.7
75°	79.7	80.5	82.9	82.9	85.3	86.1	86.9	87.7	89.3	90.9	92.5
77.5°	65.2	65.2	68.4	70.0	71.6	71.6	72.4	72.4	72.4	73.2	74.8
80°	51.5	51.5	53.9	55.5	57.1	57.1	57.9	58.7	59.5	59.5	60.4
82.5°	38.6	38.6	41.0	41.8	43.5	43.5	43.5	44.3	45.1	44.3	45.9
85°	26.6	26.6	28.2	29.0	30.6	30.6	30.6	31.4	32.2	31.4	32.2
87.5°	15.3	16.1	16.9	17.7	18.5	19.3	19.3	19.3	20.1	20.1	20.9
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1878.1	1868.5	1867.6	1856.4	1853.2	1854.0	1845.1	1841.9	1827.4	1824.2	1808.9
5°	1885.4	1890.2	1887.8	1887.0	1889.4	1887.8	1881.3	1878.1	1875.7	1869.3	1856.4
7.5°	1805.7	1808.9	1811.3	1821.8	1830.6	1845.9	1862.0	1872.5	1880.5	1882.1	1871.7
10°	1724.4	1739.7	1750.2	1766.3	1779.1	1788.0	1797.6	1806.5	1829.8	1853.2	1866.8
12.5°	1682.6	1686.6	1685.8	1694.6	1703.5	1726.8	1749.4	1762.2	1779.9	1790.4	1815.3
15°	1647.2	1648.0	1650.4	1656.8	1661.7	1669.7	1680.2	1699.5	1734.9	1751.0	1764.7
17.5°	1615.0	1615.0	1616.6	1622.2	1628.7	1635.9	1642.3	1650.4	1668.1	1694.6	1728.4
20°	1563.5	1586.0	1588.4	1587.6	1590.8	1604.5	1606.1	1620.6	1629.5	1639.9	1672.9
22.5°	1487.0	1500.7	1520.0	1549.8	1561.1	1567.5	1572.3	1578.8	1592.5	1604.5	1618.2
25°	1445.2	1454.0	1459.7	1468.5	1491.9	1529.7	1536.9	1544.2	1553.0	1561.9	1578.8
27.5°	1408.2	1407.4	1411.4	1419.4	1425.9	1446.0	1481.4	1509.6	1511.2	1524.1	1538.5
30°	1381.6	1376.8	1371.2	1369.6	1378.4	1388.9	1399.3	1443.6	1474.2	1480.6	1495.9
32.5°	1356.7	1348.6	1340.6	1334.2	1328.5	1337.4	1343.8	1363.1	1402.5	1439.6	1447.6
35°	1326.1	1318.1	1308.4	1301.2	1292.3	1291.5	1290.7	1309.2	1322.1	1366.3	1405.0
37.5°	1294.7	1285.9	1277.8	1269.8	1260.9	1254.5	1250.5	1255.3	1267.4	1286.7	1351.0
40°	1261.7	1251.3	1243.2	1236.8	1224.7	1219.9	1211.8	1208.6	1209.4	1226.3	1260.1
42.5°	754.0	1202.2	1206.2	1199.0	1188.5	1182.1	1173.2	1169.2	1161.1	1169.2	1188.5
45°	290.5	293.7	879.5	1162.0	1149.1	1141.0	1133.0	1129.0	1120.1	1113.7	1131.4
47.5°	284.9	288.1	281.6	399.1	1096.8	1099.2	1089.5	1085.5	1076.7	1071.8	1067.0
50°	280.8	283.2	278.4	280.0	274.4	1005.0	1045.3	1040.4	1030.8	1025.2	1015.5
52.5°	276.8	276.8	273.6	269.6	268.0	268.8	845.7	994.6	983.3	977.7	964.8
55°	263.9	265.5	268.8	262.3	260.7	259.9	257.5	805.5	931.0	924.6	913.3
57.5°	244.6	247.8	256.7	255.1	255.1	248.6	247.0	247.0	747.5	870.7	859.4
60°	222.1	225.3	235.0	238.2	240.6	239.0	237.4	236.6	233.4	787.8	802.3
62.5°	198.8	202.0	205.2	215.7	218.9	222.9	227.7	225.3	222.1	222.1	741.9
65°	173.8	178.6	180.2	189.9	193.9	201.2	205.2	210.8	209.2	208.4	212.4
67.5°	152.1	157.7	158.5	162.5	169.8	173.0	177.8	188.3	193.1	194.7	196.3
70°	133.6	136.8	139.2	140.8	145.6	146.5	155.3	162.5	169.8	177.8	180.2
72.5°	115.1	117.5	122.3	120.7	122.3	125.5	130.4	135.2	142.4	153.7	160.9
75°	94.1	95.8	99.0	100.6	103.8	106.2	109.4	113.5	119.9	125.5	135.2
77.5°	75.6	76.4	78.9	79.7	82.9	85.3	90.9	93.3	97.4	101.4	107.0
80°	61.2	61.2	62.0	62.0	64.4	66.8	70.8	73.2	78.1	81.3	81.3
82.5°	46.7	46.7	49.1	49.1	50.7	50.7	53.1	53.1	55.5	57.1	58.7
85°	33.0	33.8	35.4	34.6	36.2	35.4	37.0	38.6	39.4	38.6	37.8
87.5°	21.7	21.7	23.3	22.5	23.3	23.3	24.9	24.9	25.7	25.7	24.9
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1803.3	1791.2	1784.0	1775.1	1772.7	1770.3	1773.5	1773.5	1768.7	1764.7	1757.4
5°	1845.1	1832.2	1818.6	1804.1	1790.4	1775.9	1770.3	1769.5	1760.6	1755.8	1753.4
7.5°	1866.8	1860.4	1845.1	1825.0	1804.1	1778.3	1767.1	1760.6	1751.8	1750.2	1750.2
10°	1869.3	1862.0	1854.0	1839.5	1815.3	1781.5	1759.8	1746.9	1738.9	1744.5	1755.0
12.5°	1845.9	1859.6	1852.4	1842.7	1823.4	1782.4	1751.0	1731.7	1729.2	1743.7	1771.1
15°	1786.4	1826.6	1846.7	1837.1	1821.8	1780.7	1736.5	1714.0	1714.0	1743.7	1779.1
17.5°	1741.3	1772.7	1821.8	1829.8	1812.1	1777.5	1722.8	1696.3	1703.5	1746.9	1784.8
20°	1704.3	1723.6	1771.1	1816.2	1799.3	1770.3	1702.7	1675.3	1689.8	1742.1	1792.8
22.5°	1646.4	1685.0	1714.0	1780.7	1786.4	1756.6	1682.6	1649.6	1678.6	1742.1	1788.8
25°	1590.0	1636.7	1667.3	1732.5	1767.1	1739.7	1664.1	1622.2	1666.5	1739.7	1785.6
27.5°	1550.6	1572.3	1627.9	1674.5	1738.1	1717.2	1639.1	1592.5	1651.2	1726.8	1767.1
30°	1508.8	1523.2	1578.0	1622.2	1699.5	1691.4	1613.4	1559.5	1631.9	1714.8	1718.8
32.5°	1462.9	1479.0	1507.2	1571.5	1645.6	1667.3	1584.4	1526.5	1611.0	1696.3	1662.5
35°	1416.2	1428.3	1450.8	1520.0	1582.8	1631.1	1549.0	1488.6	1596.5	1668.1	1608.5
37.5°	1369.6	1382.4	1401.7	1459.7	1516.8	1597.3	1518.4	1450.8	1569.9	1618.2	1552.2
40°	1325.3	1332.5	1352.7	1388.9	1462.1	1562.7	1483.8	1411.4	1542.6	1554.6	1475.8
42.5°	1244.0	1280.2	1298.7	1327.7	1400.1	1515.2	1443.6	1369.6	1512.0	1491.1	1399.3
45°	1156.3	1235.2	1243.2	1272.2	1345.4	1464.5	1405.8	1328.5	1483.0	1436.3	1326.9
47.5°	1084.7	1141.8	1188.5	1212.6	1280.2	1405.0	1370.4	1293.9	1439.6	1367.1	1256.1
50°	1021.1	1051.7	1136.2	1153.9	1202.2	1333.3	1328.5	1253.7	1379.2	1280.2	1186.9
52.5°	959.2	980.9	1057.3	1095.2	1134.6	1256.1	1278.6	1214.3	1313.2	1193.3	1116.9
55°	905.3	912.5	954.3	1034.0	1069.4	1178.0	1223.9	1168.4	1229.5	1110.5	1049.3
57.5°	849.7	843.3	873.9	976.1	1001.8	1098.4	1166.0	1121.7	1162.0	1026.0	979.3
60°	791.8	782.9	795.8	863.4	930.2	1019.5	1097.6	1070.2	1079.9	942.3	901.2
62.5°	731.4	722.6	718.6	761.2	860.2	938.3	1028.4	1013.1	979.3	865.8	804.7
65°	668.7	659.8	653.4	670.3	782.9	832.8	951.1	947.1	869.0	785.4	677.5
67.5°	203.6	600.3	586.6	585.8	659.8	737.1	867.4	861.0	758.0	699.3	583.4
70°	183.5	486.8	517.4	510.2	542.4	639.7	771.7	766.9	650.2	560.9	515.8
72.5°	168.2	172.2	457.1	449.0	456.3	544.0	671.9	659.0	551.2	442.6	445.8
75°	144.0	151.3	157.7	379.0	369.3	450.6	563.3	543.2	454.6	365.3	372.6
77.5°	117.5	126.3	131.2	276.0	298.5	321.1	449.8	423.3	313.0	292.1	139.2
80°	87.7	95.0	103.0	110.2	226.9	224.5	333.9	307.4	218.1	181.9	108.6
82.5°	64.4	66.8	71.6	79.7	90.1	150.5	214.8	189.1	151.3	82.9	74.8
85°	40.2	43.5	45.9	48.3	54.7	90.1	106.2	84.5	63.6	50.7	47.5
87.5°	25.7	25.7	24.9	25.7	26.6	32.2	36.2	34.6	27.4	25.7	25.7
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1749.4	1738.1	1738.1	1734.9	1737.3	1737.3	1736.5	1737.3	1742.9	1746.1	1751.8
5°	1748.6	1745.3	1752.6	1761.4	1771.9	1784.8	1788.0	1799.3	1809.7	1823.4	1837.9
7.5°	1759.0	1770.3	1784.0	1798.4	1819.4	1834.7	1848.3	1862.0	1871.7	1884.5	1892.6
10°	1774.3	1796.8	1820.2	1838.7	1861.2	1874.1	1882.9	1884.5	1870.9	1849.1	1831.4
12.5°	1796.0	1822.6	1844.3	1862.0	1872.5	1867.6	1841.9	1815.3	1800.1	1777.5	1746.1
15°	1814.5	1838.7	1861.2	1854.0	1825.8	1799.3	1779.1	1747.8	1717.2	1696.3	1682.6
17.5°	1822.6	1845.9	1837.9	1800.1	1773.5	1742.9	1701.9	1677.7	1657.6	1641.5	1633.5
20°	1827.4	1823.4	1779.9	1752.6	1701.1	1672.9	1646.4	1623.8	1608.5	1600.5	1598.9
22.5°	1814.5	1765.5	1728.4	1679.4	1641.5	1618.2	1597.3	1578.8	1568.3	1561.9	1557.8
25°	1771.9	1714.8	1660.0	1621.4	1589.2	1569.1	1553.0	1537.7	1524.9	1521.6	1513.6
27.5°	1712.3	1665.7	1593.3	1563.5	1535.3	1525.7	1508.0	1492.7	1481.4	1471.7	1446.0
30°	1663.3	1589.2	1536.9	1509.6	1492.7	1481.4	1461.3	1445.2	1425.9	1390.5	1376.0
32.5°	1602.9	1529.7	1479.8	1464.5	1443.6	1433.9	1411.4	1376.0	1346.2	1331.7	1330.9
35°	1524.9	1464.5	1428.3	1414.6	1397.7	1381.6	1335.0	1302.8	1288.3	1289.9	1302.0
37.5°	1459.7	1405.8	1382.4	1363.1	1343.8	1302.8	1263.3	1248.1	1252.1	1260.1	1265.8
40°	1393.7	1352.7	1326.1	1310.8	1267.4	1227.1	1206.2	1211.8	1219.1	1224.7	1232.0
42.5°	1329.3	1300.4	1273.8	1244.0	1184.5	1162.8	1167.6	1174.8	1181.3	1189.3	1196.6
45°	1268.2	1242.4	1211.8	1144.2	1114.5	1120.1	1127.3	1133.0	1142.6	1148.3	1155.5
47.5°	1210.2	1182.9	1129.0	1069.4	1066.2	1077.5	1083.9	1091.1	1098.4	1083.9	597.9
50°	1145.1	1116.9	1034.8	1012.3	1019.5	1030.0	1038.0	1045.3	931.0	370.2	284.9
52.5°	1080.7	1009.1	956.8	963.2	970.4	982.5	988.1	733.9	292.1	278.4	279.2
55°	1009.1	917.3	902.0	910.1	916.5	928.6	615.6	269.6	268.0	267.2	273.6
57.5°	896.4	840.9	847.3	855.4	861.8	608.3	262.3	260.7	261.5	262.3	263.1
60°	795.8	783.8	791.0	798.2	564.9	253.5	248.6	249.4	252.7	250.3	243.8
62.5°	716.2	725.8	733.1	642.1	240.6	238.2	240.6	238.2	232.6	228.5	220.5
65°	655.0	664.7	670.3	226.1	225.3	228.5	226.1	218.1	209.2	197.9	195.5
67.5°	590.6	600.3	214.8	209.2	212.4	208.4	198.8	189.1	182.7	173.0	169.0
70°	523.8	224.5	194.7	193.9	188.3	181.9	171.4	161.7	153.7	149.7	145.6
72.5°	378.2	177.8	175.4	169.0	159.3	150.5	141.6	136.0	132.0	129.6	127.1
75°	157.7	154.5	147.3	136.0	126.3	122.3	115.9	111.8	110.2	105.4	103.8
77.5°	132.0	125.5	115.1	107.0	101.4	99.0	94.1	89.3	86.9	86.1	82.9
80°	101.4	92.5	87.7	83.7	82.1	76.4	70.8	68.4	66.8	66.0	63.6
82.5°	69.2	66.0	62.8	57.1	57.1	54.7	52.3	50.7	49.1	49.1	47.5
85°	45.1	42.6	41.8	39.4	39.4	37.8	37.0	36.2	35.4	34.6	33.8
87.5°	25.7	25.7	26.6	25.7	25.7	24.9	24.1	23.3	22.5	22.5	20.9
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1759.0	1767.1	1768.7	1796.0	1811.3	1810.5	1805.7	1820.2	1811.3	1806.5	1811.3
5°	1852.4	1862.0	1870.1	1899.8	1910.3	1915.1	1914.3	1922.4	1915.9	1910.3	1910.3
7.5°	1898.2	1901.4	1904.7	1897.4	1892.6	1884.5	1872.5	1854.8	1845.9	1836.3	1824.2
10°	1822.6	1812.1	1816.2	1801.7	1789.6	1780.7	1769.5	1755.0	1742.9	1734.1	1720.4
12.5°	1730.1	1729.2	1730.9	1733.3	1721.2	1714.0	1705.1	1694.6	1685.8	1676.1	1664.9
15°	1673.7	1674.5	1681.0	1678.6	1674.5	1670.5	1660.8	1657.6	1649.6	1639.1	1632.7
17.5°	1633.5	1637.5	1644.0	1640.7	1634.3	1630.3	1623.0	1615.8	1608.5	1600.5	1590.8
20°	1598.1	1602.1	1606.1	1602.1	1590.0	1584.4	1574.7	1552.2	1536.1	1520.0	1505.5
22.5°	1559.5	1561.9	1558.7	1545.8	1515.2	1500.7	1489.5	1483.0	1469.3	1460.5	1451.6
25°	1511.2	1497.5	1476.6	1462.1	1450.0	1443.6	1438.8	1438.0	1436.3	1434.7	1430.7
27.5°	1432.3	1427.5	1416.2	1410.6	1411.4	1413.8	1414.6	1417.0	1414.6	1411.4	1408.2
30°	1373.6	1376.0	1376.8	1378.4	1382.4	1384.8	1385.6	1388.9	1387.3	1384.8	1383.2
32.5°	1336.6	1342.2	1345.4	1350.2	1352.7	1356.7	1356.7	1361.5	1356.7	1355.9	1354.3
35°	1306.0	1310.8	1312.4	1319.7	1322.1	1326.1	1326.1	1330.1	1326.1	1285.1	1014.7
37.5°	1275.4	1280.2	1283.5	1289.9	1290.7	1293.1	1193.3	873.1	563.3	436.1	333.1
40°	1239.2	1244.8	1248.1	1250.5	878.7	557.6	383.8	312.2	312.2	314.6	317.0
42.5°	1200.6	1204.6	839.3	488.4	304.2	303.4	305.8	308.2	310.6	313.8	317.0
45°	943.9	476.4	302.6	295.3	297.7	300.9	304.2	307.4	311.4	314.6	316.2
47.5°	309.8	290.5	294.5	291.3	295.3	299.3	302.6	305.8	306.6	307.4	306.6
50°	286.5	286.5	288.9	288.9	292.1	293.7	293.7	293.7	290.5	289.7	287.3
52.5°	276.8	283.2	280.0	281.6	280.0	277.6	275.2	272.8	268.0	266.3	263.1
55°	272.0	274.4	266.3	263.9	260.7	254.3	251.1	247.8	243.8	242.2	238.2
57.5°	260.7	255.1	246.2	242.2	236.6	230.1	226.9	224.5	220.5	218.9	216.5
60°	239.8	228.5	222.9	218.1	211.6	206.0	203.6	202.0	198.8	197.9	195.5
62.5°	214.0	204.4	199.6	193.1	188.3	185.1	182.7	181.9	178.6	178.6	177.0
65°	185.9	181.1	177.0	170.6	168.2	165.0	164.2	163.3	161.7	160.9	159.3
67.5°	163.3	160.1	154.5	151.3	149.7	147.3	145.6	144.0	140.8	139.2	136.8
70°	143.2	140.8	135.2	132.8	129.6	125.5	123.1	121.5	119.1	117.5	115.1
72.5°	123.9	116.7	112.7	110.2	107.8	103.8	103.0	101.4	99.0	98.2	95.8
75°	99.8	94.1	91.7	90.1	87.7	85.3	85.3	85.3	82.9	82.1	81.3
77.5°	79.7	76.4	74.8	73.2	72.4	70.8	68.4	67.6	65.2	65.2	64.4
80°	61.2	59.5	57.9	57.1	56.3	54.7	53.1	52.3	49.9	49.9	49.1
82.5°	45.1	44.3	43.5	42.6	41.8	41.0	38.6	37.8	36.2	36.2	35.4
85°	32.2	31.4	29.8	29.0	29.0	28.2	25.7	24.9	23.3	23.3	23.3
87.5°	20.1	19.3	18.5	17.7	16.9	16.1	14.5	13.7	13.7	12.1	11.3
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1801.7	1815.3	1813.7	1823.4	1825.8	1830.6	1832.2	1833.0	1821.0	1830.6	1831.4
5°	1907.9	1910.3	1911.9	1915.9	1920.0	1920.8	1916.7	1911.9	1913.5	1910.3	1902.3
7.5°	1822.6	1810.5	1808.1	1804.9	1803.3	1801.7	1794.4	1800.9	1793.6	1790.4	1779.1
10°	1718.0	1706.7	1705.9	1705.9	1708.3	1707.5	1705.9	1702.7	1709.1	1705.1	1702.7
12.5°	1663.3	1659.2	1661.7	1660.0	1666.5	1668.1	1666.5	1666.5	1664.9	1661.7	1663.3
15°	1630.3	1627.1	1629.5	1627.1	1631.9	1632.7	1628.7	1631.1	1627.1	1623.0	1621.4
17.5°	1586.8	1579.6	1573.9	1565.9	1566.7	1565.1	1560.3	1560.3	1556.2	1545.8	1546.6
20°	1503.1	1495.9	1492.7	1492.7	1496.7	1498.3	1497.5	1499.1	1495.1	1493.5	1487.0
22.5°	1450.8	1450.0	1451.6	1455.7	1462.1	1470.9	1471.7	1471.7	1471.7	1470.9	1462.9
25°	1432.3	1432.3	1433.9	1439.6	1444.4	1450.8	1452.4	1454.0	1452.4	1452.4	1445.2
27.5°	1411.4	1409.8	1413.0	1418.6	1424.3	1429.1	1433.1	1433.9	1431.5	1431.5	1433.9
30°	1385.6	1384.8	1388.9	1394.5	1399.3	1404.2	1408.2	1411.4	1408.2	1408.2	1405.8
32.5°	1359.1	1359.1	1360.7	1326.9	1230.3	1108.0	1110.5	1039.6	990.6	928.6	1010.7
35°	848.1	617.2	530.3	449.0	391.9	354.9	354.1	342.0	336.4	332.3	331.5
37.5°	320.3	321.9	325.1	326.7	329.1	330.7	331.5	331.5	331.5	331.5	330.7
40°	319.5	322.7	325.1	327.5	329.9	331.5	331.5	332.3	333.1	333.1	333.1
42.5°	320.3	323.5	326.7	329.1	330.7	331.5	332.3	333.1	333.1	333.1	333.1
45°	319.5	321.1	321.1	321.9	321.9	321.9	322.7	322.7	321.9	321.1	322.7
47.5°	307.4	307.4	305.0	304.2	303.4	301.8	302.6	301.8	300.9	300.1	301.8
50°	286.5	283.2	281.6	280.0	279.2	277.6	278.4	277.6	276.8	275.2	277.6
52.5°	261.5	260.7	257.5	255.9	255.1	255.9	254.3	253.5	252.7	251.9	252.7
55°	237.4	234.2	233.4	231.7	230.9	231.7	230.9	230.1	229.3	228.5	229.3
57.5°	215.7	213.2	212.4	210.8	210.8	210.8	210.8	210.0	209.2	208.4	209.2
60°	194.7	193.1	192.3	192.3	191.5	191.5	191.5	190.7	189.9	189.9	190.7
62.5°	177.0	177.0	174.6	173.8	173.8	174.6	173.8	173.0	172.2	171.4	173.0
65°	158.5	155.3	154.5	152.9	151.3	152.1	151.3	150.5	149.7	148.9	150.5
67.5°	136.0	135.2	132.0	130.4	129.6	130.4	129.6	128.7	127.9	127.1	128.7
70°	114.3	114.3	111.0	110.2	109.4	109.4	108.6	108.6	107.8	107.0	108.6
72.5°	95.0	95.0	94.1	92.5	91.7	90.9	90.1	89.3	89.3	90.1	90.1
75°	78.9	77.2	74.0	74.8	74.0	73.2	73.2	72.4	71.6	73.2	72.4
77.5°	62.0	61.2	58.7	59.5	58.7	57.9	57.9	57.1	56.3	57.1	57.1
80°	46.7	46.7	45.9	45.1	45.1	44.3	43.5	43.5	42.6	43.5	43.5
82.5°	33.8	33.8	33.0	32.2	31.4	31.4	30.6	30.6	30.6	30.6	30.6
85°	21.7	20.9	20.9	19.3	19.3	19.3	18.5	18.5	18.5	18.5	18.5
87.5°	10.5	10.5	9.7	9.7	8.9	8.0	8.0	7.2	7.2	8.0	8.0
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1817.0	1827.4	1818.6	1822.6	1823.4	1837.1	1836.3	1839.5	1833.9	1827.4	1818.6
5°	1909.5	1904.7	1898.2	1913.5	1905.5	1915.1	1918.3	1924.8	1924.8	1924.0	1916.7
7.5°	1791.2	1780.7	1788.8	1794.4	1796.8	1790.4	1803.3	1817.8	1829.8	1837.1	1837.9
10°	1698.7	1701.9	1701.1	1703.5	1709.1	1708.3	1716.4	1724.4	1727.6	1732.5	1734.1
12.5°	1655.2	1654.4	1656.0	1661.7	1664.9	1664.1	1672.1	1676.9	1678.6	1679.4	1678.6
15°	1620.6	1615.0	1619.0	1619.8	1622.2	1622.2	1631.9	1639.1	1642.3	1644.0	1642.3
17.5°	1555.4	1541.8	1554.6	1554.6	1563.5	1561.9	1577.2	1589.2	1595.7	1600.5	1600.5
20°	1491.1	1484.6	1489.5	1487.8	1494.3	1493.5	1503.1	1511.2	1516.8	1520.8	1525.7
22.5°	1465.3	1466.9	1459.7	1460.5	1460.5	1459.7	1464.5	1468.5	1470.1	1472.6	1470.9
25°	1448.4	1450.0	1447.6	1443.6	1442.0	1443.6	1446.0	1450.8	1451.6	1450.0	1444.4
27.5°	1431.5	1426.7	1430.7	1423.5	1421.9	1425.1	1428.3	1429.1	1429.9	1429.9	1425.1
30°	1405.8	1401.7	1405.8	1402.5	1399.3	1402.5	1405.0	1405.0	1406.6	1407.4	1401.7
32.5°	982.5	990.6	1120.9	1199.8	1310.8	1367.1	1377.6	1377.6	1379.2	1379.2	1374.4
35°	334.7	335.5	362.9	393.5	458.7	539.1	644.5	699.3	884.3	1105.6	1319.7
37.5°	330.7	329.9	329.1	328.3	327.5	326.7	325.1	324.3	329.1	390.3	529.5
40°	332.3	331.5	329.9	329.1	328.3	326.7	325.9	324.3	322.7	321.1	319.5
42.5°	332.3	331.5	330.7	329.9	329.1	328.3	326.7	325.1	323.5	321.1	318.7
45°	321.1	321.1	321.9	321.9	322.7	322.7	322.7	321.9	321.9	321.1	317.8
47.5°	300.1	300.1	302.6	302.6	304.2	305.8	305.8	307.4	309.8	311.4	312.2
50°	276.0	276.0	278.4	279.2	280.8	283.2	285.7	286.5	288.9	292.1	295.3
52.5°	251.9	251.9	254.3	254.3	255.9	258.3	260.7	261.5	264.7	268.0	272.0
55°	229.3	229.3	230.9	231.7	232.6	234.2	236.6	236.6	239.8	242.2	246.2
57.5°	209.2	210.8	210.8	210.8	211.6	213.2	214.8	214.8	217.3	219.7	222.9
60°	189.9	191.5	191.5	191.5	192.3	193.1	194.7	194.7	196.3	197.9	201.2
62.5°	172.2	173.8	173.8	174.6	174.6	175.4	177.0	176.2	177.8	178.6	181.1
65°	149.7	151.3	152.1	152.9	153.7	155.3	157.7	156.9	159.3	160.9	163.3
67.5°	127.9	129.6	129.6	130.4	131.2	132.8	134.4	134.4	136.8	138.4	141.6
70°	107.8	109.4	109.4	110.2	111.0	112.7	114.3	113.5	115.9	117.5	119.9
72.5°	89.3	90.9	90.9	91.7	91.7	93.3	95.0	96.6	96.6	98.2	99.8
75°	72.4	73.2	74.0	74.0	74.8	75.6	77.2	78.9	79.7	80.5	82.1
77.5°	57.1	57.9	58.7	58.7	59.5	60.4	61.2	64.4	66.0	66.8	66.8
80°	43.5	44.3	44.3	44.3	45.1	45.9	47.5	47.5	50.7	50.7	51.5
82.5°	30.6	31.4	31.4	31.4	32.2	33.8	34.6	35.4	37.0	37.8	37.8
85°	18.5	19.3	19.3	19.3	20.1	20.9	22.5	23.3	24.1	24.1	24.9
87.5°	7.2	8.0	8.9	8.9	9.7	10.5	11.3	12.1	12.9	12.9	13.7
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1808.9	1814.5	1808.9	1812.1	1816.2	1808.9	1792.0	1785.6	1783.2	1773.5	1767.1
5°	1909.5	1909.5	1907.1	1913.5	1912.7	1901.4	1883.7	1875.7	1867.6	1857.2	1849.1
7.5°	1837.9	1844.3	1848.3	1873.3	1889.4	1891.0	1902.3	1904.7	1907.9	1904.7	1899.8
10°	1734.9	1732.5	1743.7	1767.1	1780.7	1788.0	1809.7	1820.2	1829.0	1846.7	1865.2
12.5°	1676.9	1680.2	1685.0	1701.9	1714.8	1711.5	1720.4	1727.6	1738.1	1755.8	1782.4
15°	1638.3	1641.5	1646.4	1659.2	1667.3	1663.3	1668.1	1672.9	1680.2	1689.0	1705.1
17.5°	1596.5	1602.1	1607.7	1621.4	1628.7	1627.9	1631.9	1633.5	1635.9	1641.5	1652.8
20°	1531.3	1549.0	1560.3	1578.8	1589.2	1587.6	1594.9	1597.3	1600.5	1606.1	1611.0
22.5°	1471.7	1476.6	1482.2	1502.3	1520.0	1541.8	1546.6	1553.0	1561.1	1566.7	1571.5
25°	1438.0	1434.7	1437.1	1450.8	1460.5	1462.1	1469.3	1490.3	1512.0	1521.6	1532.9
27.5°	1417.8	1414.6	1413.8	1420.3	1421.9	1417.8	1416.2	1422.7	1438.8	1454.9	1488.6
30°	1396.1	1392.1	1388.9	1394.5	1396.9	1391.3	1380.8	1375.2	1384.8	1388.9	1402.5
32.5°	1370.4	1366.3	1364.7	1367.9	1369.6	1364.7	1353.5	1347.0	1345.4	1342.2	1345.4
35°	1341.4	1337.4	1335.0	1335.8	1339.0	1335.0	1325.3	1317.3	1313.2	1304.4	1297.9
37.5°	691.2	979.3	1271.4	1302.0	1305.2	1304.4	1294.7	1285.9	1281.8	1271.4	1268.2
40°	316.2	353.3	530.3	692.8	999.4	1269.8	1260.9	1252.1	1244.8	1241.6	1229.5
42.5°	315.4	316.2	317.0	313.0	387.9	660.6	975.3	1217.5	1212.6	1204.6	1195.7
45°	315.4	311.4	314.6	309.8	311.4	310.6	387.0	624.4	1111.3	1161.1	1157.1
47.5°	312.2	309.8	313.0	309.0	304.2	306.6	303.4	307.4	479.6	813.5	1114.5
50°	297.7	299.3	305.0	304.2	300.1	303.4	297.7	302.6	298.5	327.5	630.9
52.5°	276.0	279.2	284.9	289.7	291.3	295.3	293.7	295.3	292.1	292.9	293.7
55°	250.3	254.3	259.1	266.3	269.6	276.0	280.8	283.2	287.3	286.5	280.0
57.5°	226.1	230.1	234.2	241.4	248.6	251.9	260.7	265.5	276.0	273.6	272.0
60°	203.6	206.8	210.8	212.4	221.3	226.9	235.0	239.8	253.5	256.7	261.5
62.5°	183.5	185.1	188.3	190.7	196.3	202.0	206.0	214.0	221.3	231.7	239.0
65°	165.0	166.6	169.0	170.6	171.4	179.4	181.9	190.7	193.1	204.4	210.8
67.5°	144.0	147.3	150.5	152.1	153.7	158.5	160.1	164.2	169.8	174.6	182.7
70°	122.3	124.7	127.9	130.4	133.6	136.8	141.6	144.0	148.1	151.3	157.7
72.5°	102.2	104.6	106.2	108.6	111.0	113.5	117.5	123.1	126.3	132.0	133.6
75°	82.9	85.3	86.9	88.5	90.9	92.5	94.1	99.8	103.0	107.8	112.7
77.5°	68.4	68.4	70.0	74.8	74.0	74.0	75.6	78.9	81.3	84.5	89.3
80°	53.1	53.9	54.7	58.7	59.5	60.4	59.5	62.0	64.4	65.2	68.4
82.5°	39.4	40.2	40.2	42.6	45.1	45.1	45.1	45.9	48.3	49.1	50.7
85°	26.6	27.4	28.2	29.0	30.6	31.4	32.2	32.2	33.8	34.6	35.4
87.5°	14.5	16.1	16.9	17.7	18.5	19.3	20.1	20.9	21.7	22.5	23.3
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-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°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1764.7	1760.6	1758.2	1751.8	1750.2	1739.7	1741.3	1739.7	1739.7	1742.1	1750.2
5°	1840.3	1821.0	1816.2	1802.5	1791.2	1771.9	1759.8	1753.4	1743.7	1739.7	1745.3
7.5°	1891.8	1877.3	1865.2	1853.2	1837.1	1814.5	1797.6	1778.3	1762.2	1746.9	1742.9
10°	1882.9	1899.0	1899.0	1891.8	1876.5	1854.0	1833.9	1809.7	1781.5	1757.4	1742.9
12.5°	1808.1	1836.3	1858.8	1875.7	1891.0	1875.7	1855.6	1836.3	1804.9	1769.5	1742.9
15°	1726.0	1755.0	1783.2	1818.6	1855.6	1870.9	1870.1	1847.5	1819.4	1782.4	1745.3
17.5°	1668.1	1688.2	1703.5	1742.1	1787.2	1826.6	1853.2	1854.8	1827.4	1794.4	1746.1
20°	1624.6	1639.1	1652.0	1673.7	1713.2	1761.4	1810.5	1837.9	1833.0	1796.8	1748.6
22.5°	1585.2	1595.7	1606.1	1622.2	1653.6	1685.0	1742.1	1798.4	1822.6	1792.8	1746.1
25°	1545.8	1557.0	1565.1	1576.4	1601.3	1627.1	1667.3	1737.3	1791.2	1789.6	1741.3
27.5°	1499.1	1514.4	1524.1	1539.3	1556.2	1575.6	1602.9	1668.9	1746.1	1773.5	1728.4
30°	1442.8	1465.3	1479.8	1496.7	1511.2	1528.1	1549.8	1590.0	1685.8	1742.1	1714.8
32.5°	1361.5	1401.7	1433.9	1450.0	1466.1	1480.6	1499.9	1533.7	1611.8	1699.5	1699.5
35°	1303.6	1322.1	1351.0	1397.7	1417.8	1432.3	1450.0	1476.6	1526.5	1648.8	1674.5
37.5°	1258.5	1265.8	1280.2	1326.1	1363.9	1387.3	1405.0	1421.9	1470.9	1579.6	1642.3
40°	1224.7	1222.3	1220.7	1242.4	1296.3	1333.3	1353.5	1370.4	1408.2	1496.7	1599.7
42.5°	1185.3	1182.9	1174.8	1180.5	1207.0	1269.0	1299.5	1318.1	1349.4	1409.8	1553.0
45°	1144.2	1140.2	1137.0	1131.4	1141.0	1175.6	1238.4	1265.8	1283.5	1337.4	1494.3
47.5°	1102.4	1096.8	1092.7	1087.9	1082.3	1098.4	1157.9	1207.0	1237.6	1271.4	1423.5
50°	1042.9	1050.1	1045.3	1039.6	1034.8	1031.6	1056.5	1137.0	1174.8	1202.2	1337.4
52.5°	491.7	956.0	996.2	990.6	984.1	978.5	984.1	1045.3	1113.7	1135.4	1233.6
55°	280.0	425.7	885.9	936.6	931.0	923.0	918.1	939.1	1041.2	1070.2	1138.6
57.5°	269.6	270.4	391.1	844.1	875.5	868.2	862.6	867.4	954.3	1003.4	1055.7
60°	260.7	260.7	260.7	373.4	807.1	809.5	802.3	794.2	832.0	928.6	972.0
62.5°	241.4	246.2	248.6	248.6	368.5	747.5	740.3	737.9	739.5	838.5	888.4
65°	216.5	227.7	232.6	235.8	235.8	387.0	676.7	672.7	667.1	704.9	803.9
67.5°	189.1	200.4	210.8	217.3	218.1	225.3	403.9	605.9	597.9	598.7	713.7
70°	160.9	170.6	181.9	191.5	200.4	204.4	210.8	502.9	529.5	518.2	611.6
72.5°	139.2	143.2	151.3	160.9	171.4	181.1	186.7	200.4	459.5	447.4	465.1
75°	115.9	119.1	124.7	131.2	139.2	150.5	160.1	169.8	243.8	375.0	372.6
77.5°	90.1	95.8	102.2	106.2	110.2	118.3	131.2	140.8	150.5	253.5	298.5
80°	69.2	73.2	76.4	80.5	85.3	90.9	95.8	107.0	118.3	127.1	228.5
82.5°	51.5	53.9	56.3	57.9	59.5	62.8	71.6	75.6	82.9	90.9	107.8
85°	36.2	37.8	39.4	40.2	41.0	41.8	45.1	45.9	53.1	54.7	65.2
87.5°	23.3	24.1	25.7	26.6	26.6	27.4	28.2	28.2	28.2	26.6	32.2
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: P1213415

CATALOG NUMBER: 4SNLED-LD5-39SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1755.8	1755.8
2.5°	1756.6	1769.5
5°	1754.2	1771.1
7.5°	1747.8	1763.8
10°	1738.1	1757.4
12.5°	1727.6	1746.1
15°	1718.8	1732.5
17.5°	1709.1	1717.2
20°	1696.3	1702.7
22.5°	1683.4	1680.2
25°	1668.9	1661.7
27.5°	1650.4	1636.7
30°	1633.5	1609.3
32.5°	1617.4	1578.0
35°	1595.7	1545.8
37.5°	1573.1	1512.8
40°	1546.6	1475.0
42.5°	1518.4	1437.1
45°	1483.0	1400.9
47.5°	1451.6	1357.5
50°	1408.2	1310.8
52.5°	1355.1	1267.4
55°	1292.3	1214.3
57.5°	1224.7	1158.7
60°	1152.3	1095.2
62.5°	1064.6	1029.2
65°	961.6	953.5
67.5°	827.2	869.9
70°	678.3	774.1
72.5°	567.3	672.7
75°	465.1	559.2
77.5°	368.5	438.5
80°	230.1	321.1
82.5°	154.5	210.8
85°	93.3	100.6
87.5°	36.2	37.0
90°	0.0	0.0

(END OF REPORT)