

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: P1214099

Luminaire Tested: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1214099  
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-LD5-32SL-RW-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

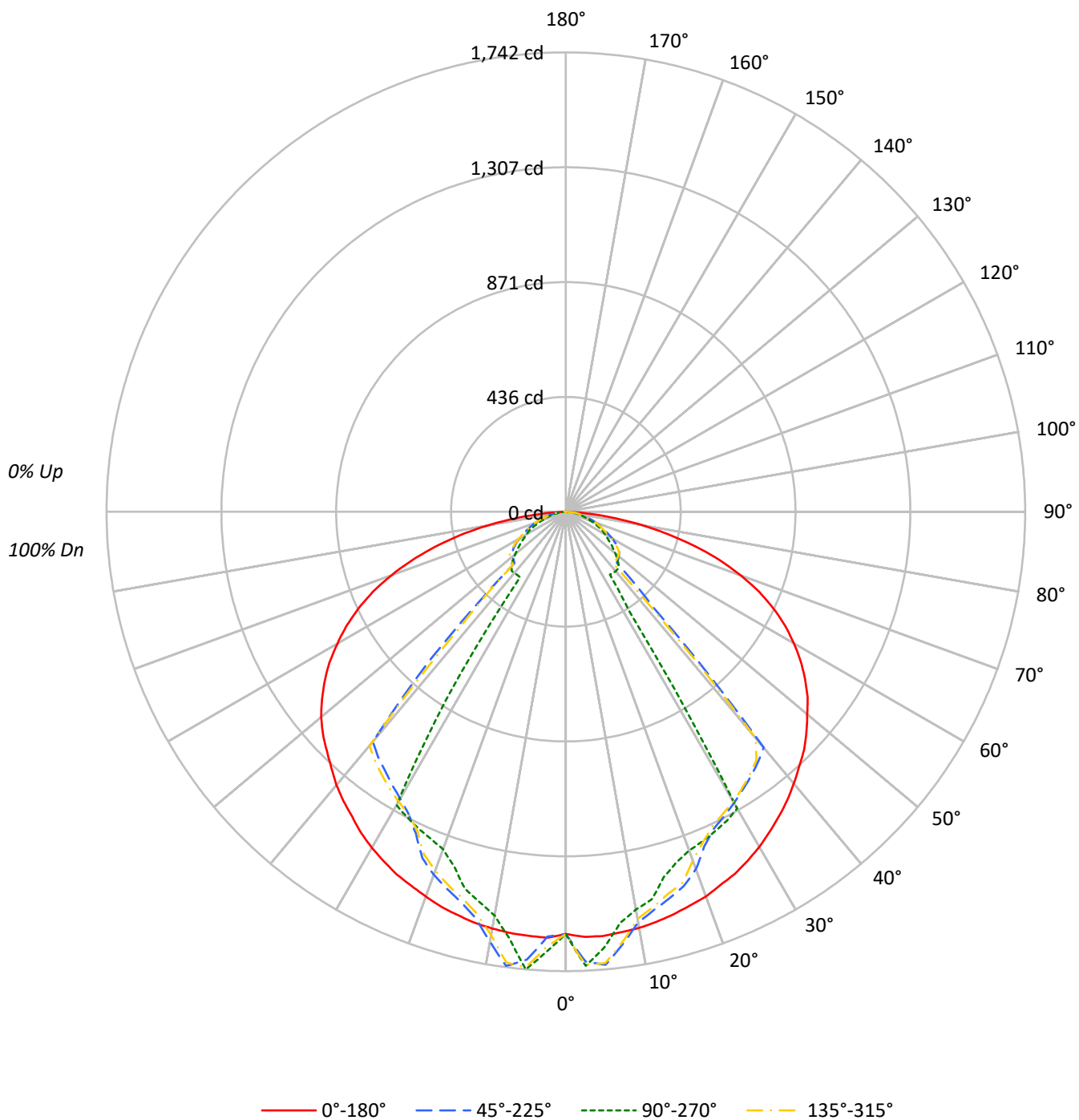
Lumens per Lamp: N/A  
Luminaire Lumens: 3206.0 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 25  
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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 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°  | 12938 | 12938 | 12938 | 12938 |
| 5°  | 13064 | 13035 | 13059 | 13681 |
| 10° | 13078 | 11785 | 13095 | 11966 |
| 15° | 13106 | 10904 | 13137 | 11249 |
| 20° | 13202 | 10342 | 13202 | 10303 |
| 25° | 13315 | 10145 | 13335 | 10050 |
| 30° | 13451 | 9965  | 13484 | 9847  |
| 35° | 13607 | 2270  | 13635 | 2367  |
| 40° | 13825 | 2360  | 13908 | 2437  |
| 45° | 14156 | 2347  | 14205 | 2433  |
| 50° | 14486 | 2122  | 14683 | 2179  |
| 55° | 14933 | 1884  | 15051 | 1911  |
| 60° | 15311 | 1675  | 15344 | 1696  |
| 65° | 15582 | 1461  | 15542 | 1438  |
| 70° | 15358 | 1178  | 15310 | 1135  |
| 75° | 14258 | 906   | 14361 | 869   |
| 80° | 11575 | 644   | 12037 | 589   |
| 85° | 6265  | 386   | 6620  | 296   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 15688 cd/sqm

TEST NUMBER: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.5  | 4.9       |
| 10°-20°   | 433.1  | 13.5      |
| 20°-30°   | 641.5  | 20.0      |
| 30°-40°   | 646.4  | 20.2      |
| 40°-50°   | 504.9  | 15.7      |
| 50°-60°   | 390.0  | 12.2      |
| 60°-70°   | 261.9  | 8.2       |
| 70°-80°   | 133.6  | 4.2       |
| 80°-90°   | 37.2   | 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°    | 1232.1 | 38.4      |
| 0°-40°    | 1878.5 | 58.6      |
| 0°-60°    | 2773.4 | 86.5      |
| 0°-90°    | 3206.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3206.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1601 | 1601 | 1601 | 1601 | 1601 |      |
| 5°  | 1615 | 1660 | 1614 | 1742 | 1615 | 154  |
| 15° | 1580 | 1434 | 1583 | 1480 | 1580 | 447  |
| 25° | 1515 | 1337 | 1517 | 1324 | 1515 | 699  |
| 35° | 1410 | 291  | 1412 | 303  | 1410 | 883  |
| 45° | 1277 | 282  | 1282 | 293  | 1277 | 985  |
| 55° | 1107 | 205  | 1116 | 208  | 1107 | 989  |
| 65° | 870  | 138  | 867  | 136  | 870  | 855  |
| 75° | 510  | 70   | 514  | 67   | 510  | 533  |
| 85° | 92   | 22   | 97   | 17   | 92   | 126  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1214099

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 25°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1613.5 | 1619.3 | 1623.7 | 1626.7 | 1628.1 | 1628.1 | 1628.9 | 1629.6 | 1639.1 | 1643.6 | 1646.5 |
| 5°    | 1614.9 | 1620.8 | 1629.6 | 1641.3 | 1651.6 | 1660.4 | 1667.8 | 1678.0 | 1688.3 | 1699.3 | 1703.0 |
| 7.5°  | 1608.3 | 1615.7 | 1633.3 | 1654.6 | 1674.4 | 1688.3 | 1697.8 | 1704.4 | 1709.6 | 1710.3 | 1714.0 |
| 10°   | 1602.5 | 1615.7 | 1639.9 | 1667.8 | 1692.7 | 1709.6 | 1709.6 | 1705.9 | 1711.1 | 1691.2 | 1671.4 |
| 12.5° | 1592.2 | 1606.9 | 1639.9 | 1676.6 | 1700.0 | 1706.7 | 1703.7 | 1689.0 | 1659.0 | 1634.7 | 1623.7 |
| 15°   | 1579.7 | 1599.5 | 1640.6 | 1681.7 | 1701.5 | 1703.7 | 1675.8 | 1638.4 | 1615.7 | 1601.0 | 1582.7 |
| 17.5° | 1565.8 | 1592.2 | 1641.3 | 1682.4 | 1689.8 | 1679.5 | 1626.7 | 1603.2 | 1579.7 | 1545.2 | 1520.3 |
| 20°   | 1552.6 | 1578.2 | 1635.5 | 1672.2 | 1676.6 | 1630.3 | 1589.3 | 1564.3 | 1524.7 | 1494.6 | 1483.6 |
| 22.5° | 1532.0 | 1562.1 | 1630.3 | 1658.2 | 1641.3 | 1587.8 | 1548.2 | 1508.5 | 1472.6 | 1463.8 | 1450.6 |
| 25°   | 1515.1 | 1546.7 | 1618.6 | 1641.3 | 1596.6 | 1548.9 | 1502.7 | 1456.4 | 1439.6 | 1427.1 | 1415.4 |
| 27.5° | 1492.4 | 1531.3 | 1603.2 | 1610.5 | 1548.9 | 1507.1 | 1439.6 | 1419.0 | 1403.6 | 1389.7 | 1384.5 |
| 30°   | 1467.5 | 1515.1 | 1581.9 | 1568.0 | 1509.3 | 1447.6 | 1397.8 | 1378.7 | 1367.7 | 1353.0 | 1347.1 |
| 32.5° | 1438.8 | 1490.9 | 1558.4 | 1518.8 | 1466.7 | 1389.7 | 1357.4 | 1342.7 | 1328.0 | 1317.0 | 1280.4 |
| 35°   | 1409.5 | 1469.7 | 1530.6 | 1471.9 | 1415.4 | 1345.7 | 1317.0 | 1303.8 | 1289.9 | 1249.5 | 1211.4 |
| 37.5° | 1379.4 | 1446.2 | 1496.8 | 1421.2 | 1347.1 | 1300.2 | 1276.0 | 1261.3 | 1229.7 | 1178.4 | 1159.3 |
| 40°   | 1344.9 | 1417.6 | 1453.5 | 1369.1 | 1287.7 | 1253.9 | 1231.2 | 1216.5 | 1145.3 | 1122.6 | 1116.7 |
| 42.5° | 1310.4 | 1389.7 | 1400.7 | 1318.5 | 1238.5 | 1204.8 | 1185.7 | 1137.3 | 1088.9 | 1077.1 | 1079.3 |
| 45°   | 1277.4 | 1359.6 | 1342.7 | 1246.6 | 1187.2 | 1159.3 | 1127.0 | 1060.2 | 1034.6 | 1040.4 | 1041.9 |
| 47.5° | 1237.8 | 1323.6 | 1281.8 | 1174.7 | 1134.3 | 1106.5 | 1034.6 | 994.2  | 990.5  | 998.6  | 1003.0 |
| 50°   | 1195.2 | 1283.3 | 1217.3 | 1109.4 | 1077.1 | 1044.1 | 962.7  | 942.1  | 946.5  | 954.6  | 959.7  |
| 52.5° | 1155.6 | 1237.8 | 1150.5 | 1048.5 | 1020.6 | 945.0  | 890.0  | 893.7  | 901.0  | 910.6  | 913.5  |
| 55°   | 1107.2 | 1182.8 | 1079.3 | 986.9  | 960.4  | 861.4  | 836.4  | 845.3  | 852.6  | 860.7  | 866.5  |
| 57.5° | 1056.6 | 1119.7 | 994.9  | 917.9  | 875.3  | 787.3  | 789.5  | 795.4  | 800.5  | 810.0  | 334.6  |
| 60°   | 998.6  | 1047.8 | 902.5  | 854.1  | 769.7  | 728.6  | 730.8  | 741.1  | 746.2  | 416.8  | 230.4  |
| 62.5° | 938.4  | 964.1  | 818.8  | 781.4  | 672.8  | 669.9  | 680.2  | 684.6  | 465.9  | 220.1  | 215.7  |
| 65°   | 869.5  | 864.3  | 736.7  | 677.2  | 606.8  | 609.7  | 620.7  | 598.7  | 206.2  | 206.2  | 204.7  |
| 67.5° | 793.2  | 762.3  | 656.7  | 560.6  | 543.0  | 549.6  | 561.3  | 195.9  | 190.8  | 192.2  | 187.1  |
| 70°   | 705.8  | 662.6  | 573.8  | 474.7  | 480.6  | 487.2  | 189.3  | 177.6  | 175.4  | 171.7  | 161.4  |
| 72.5° | 613.4  | 554.0  | 469.6  | 412.4  | 416.0  | 261.2  | 165.8  | 160.0  | 152.6  | 145.3  | 134.3  |
| 75°   | 509.9  | 432.9  | 344.9  | 344.9  | 350.0  | 148.9  | 144.5  | 135.0  | 126.9  | 117.4  | 110.8  |
| 77.5° | 399.9  | 333.1  | 267.8  | 278.1  | 135.7  | 124.7  | 116.7  | 106.4  | 99.8   | 93.9   | 90.2   |
| 80°   | 292.8  | 232.6  | 201.8  | 180.5  | 105.7  | 94.7   | 86.6   | 80.7   | 77.8   | 74.1   | 69.7   |
| 82.5° | 192.2  | 140.1  | 140.1  | 85.1   | 74.1   | 65.3   | 63.1   | 58.7   | 55.8   | 53.6   | 51.4   |
| 85°   | 91.7   | 81.4   | 61.6   | 52.1   | 46.2   | 41.8   | 40.4   | 38.2   | 38.2   | 37.4   | 36.7   |
| 87.5° | 33.8   | 36.7   | 27.1   | 26.4   | 24.9   | 24.2   | 24.9   | 24.9   | 25.7   | 24.9   | 24.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 27.5°  | 30°    | 32.5°  | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 47.5°  | 50°    | 52.5°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1653.8 | 1659.7 | 1664.1 | 1671.4 | 1681.0 | 1689.0 | 1696.4 | 1706.7 | 1722.8 | 1727.2 | 1730.9 |
| 5°    | 1703.0 | 1705.2 | 1710.3 | 1716.2 | 1717.7 | 1721.3 | 1720.6 | 1725.0 | 1727.2 | 1732.3 | 1721.3 |
| 7.5°  | 1705.9 | 1694.2 | 1680.2 | 1667.8 | 1659.0 | 1650.9 | 1645.8 | 1653.8 | 1658.2 | 1661.9 | 1650.9 |
| 10°   | 1644.3 | 1630.3 | 1622.3 | 1614.9 | 1606.1 | 1593.7 | 1576.8 | 1580.4 | 1579.0 | 1579.0 | 1575.3 |
| 12.5° | 1605.4 | 1585.6 | 1565.0 | 1546.7 | 1538.6 | 1537.9 | 1538.6 | 1546.7 | 1546.7 | 1546.0 | 1541.6 |
| 15°   | 1544.5 | 1525.4 | 1515.1 | 1510.7 | 1510.7 | 1508.5 | 1508.5 | 1517.3 | 1515.1 | 1515.1 | 1512.9 |
| 17.5° | 1504.1 | 1490.9 | 1483.6 | 1478.5 | 1476.3 | 1479.9 | 1484.3 | 1488.0 | 1488.7 | 1485.8 | 1474.1 |
| 20°   | 1471.1 | 1458.7 | 1449.8 | 1451.3 | 1450.6 | 1452.8 | 1455.0 | 1442.5 | 1427.1 | 1406.6 | 1397.0 |
| 22.5° | 1436.6 | 1427.1 | 1420.5 | 1420.5 | 1411.7 | 1397.8 | 1377.2 | 1372.8 | 1370.6 | 1361.1 | 1353.0 |
| 25°   | 1403.6 | 1392.6 | 1383.1 | 1353.7 | 1335.4 | 1337.6 | 1333.9 | 1326.6 | 1325.8 | 1325.1 | 1328.0 |
| 27.5° | 1370.6 | 1342.0 | 1305.3 | 1300.9 | 1293.6 | 1292.8 | 1297.2 | 1300.9 | 1300.9 | 1303.8 | 1307.5 |
| 30°   | 1302.4 | 1269.3 | 1262.7 | 1254.7 | 1257.6 | 1267.9 | 1270.1 | 1275.2 | 1276.7 | 1281.8 | 1284.8 |
| 32.5° | 1240.0 | 1225.3 | 1219.5 | 1223.1 | 1232.7 | 1241.5 | 1246.6 | 1248.8 | 1252.5 | 1256.9 | 1260.5 |
| 35°   | 1189.4 | 1185.0 | 1190.1 | 1198.2 | 1207.7 | 1215.1 | 1219.5 | 1223.9 | 1227.5 | 1231.2 | 1234.1 |
| 37.5° | 1152.0 | 1154.9 | 1162.2 | 1172.5 | 1182.0 | 1187.9 | 1191.6 | 1196.7 | 1201.8 | 1206.2 | 1188.6 |
| 40°   | 1116.7 | 1124.1 | 1132.1 | 1143.1 | 1151.2 | 1157.1 | 1160.8 | 1167.4 | 1123.3 | 508.5  | 278.8  |
| 42.5° | 1085.9 | 1094.0 | 1099.9 | 1108.7 | 1117.5 | 1121.9 | 1089.6 | 486.5  | 275.1  | 273.7  | 277.3  |
| 45°   | 1048.5 | 1055.1 | 1064.6 | 1071.2 | 1079.3 | 708.8  | 270.7  | 273.7  | 269.3  | 272.2  | 273.7  |
| 47.5° | 1010.3 | 1020.6 | 1025.8 | 978.8  | 291.3  | 269.3  | 266.3  | 269.3  | 266.3  | 270.0  | 267.8  |
| 50°   | 967.1  | 979.5  | 697.0  | 263.4  | 261.2  | 259.7  | 262.7  | 261.2  | 263.4  | 266.3  | 260.5  |
| 52.5° | 923.0  | 571.6  | 255.3  | 253.9  | 255.3  | 253.9  | 259.0  | 255.3  | 256.1  | 253.1  | 245.8  |
| 55°   | 312.6  | 247.3  | 245.1  | 244.3  | 248.7  | 248.7  | 248.7  | 242.9  | 239.2  | 231.9  | 226.7  |
| 57.5° | 239.2  | 239.2  | 238.5  | 239.2  | 237.7  | 236.3  | 229.7  | 224.5  | 219.4  | 209.1  | 206.2  |
| 60°   | 226.7  | 226.7  | 226.7  | 226.7  | 220.1  | 217.2  | 206.9  | 202.5  | 193.7  | 188.6  | 185.6  |
| 62.5° | 216.4  | 215.0  | 208.4  | 206.2  | 198.8  | 190.8  | 184.9  | 180.5  | 171.7  | 168.8  | 166.6  |
| 65°   | 201.8  | 196.6  | 188.6  | 179.8  | 176.1  | 167.3  | 164.4  | 157.8  | 153.3  | 151.1  | 149.7  |
| 67.5° | 177.6  | 170.2  | 163.6  | 157.8  | 151.1  | 148.2  | 144.5  | 139.4  | 136.5  | 135.0  | 133.5  |
| 70°   | 151.9  | 146.7  | 140.1  | 136.5  | 132.1  | 129.9  | 124.7  | 123.3  | 121.1  | 118.9  | 116.7  |
| 72.5° | 126.9  | 124.0  | 121.1  | 115.9  | 114.5  | 113.0  | 107.9  | 104.9  | 102.0  | 99.1   | 97.6   |
| 75°   | 106.4  | 104.2  | 102.7  | 98.3   | 96.1   | 91.7   | 88.0   | 85.8   | 83.6   | 81.4   | 80.0   |
| 77.5° | 87.3   | 85.8   | 81.4   | 78.5   | 77.0   | 73.4   | 71.9   | 72.6   | 71.2   | 68.2   | 66.8   |
| 80°   | 68.2   | 66.8   | 63.1   | 63.1   | 61.6   | 60.2   | 58.7   | 57.2   | 55.8   | 53.6   | 52.1   |
| 82.5° | 52.1   | 50.6   | 49.2   | 47.7   | 46.2   | 45.5   | 44.8   | 43.3   | 41.8   | 40.4   | 39.6   |
| 85°   | 36.7   | 36.0   | 35.2   | 34.5   | 33.8   | 33.0   | 32.3   | 30.8   | 29.3   | 28.6   | 27.9   |
| 87.5° | 24.9   | 24.2   | 23.5   | 22.7   | 22.0   | 21.3   | 20.5   | 19.8   | 18.3   | 17.6   | 16.9   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 57.5°  | 60°    | 62.5°  | 65°    | 67.5°  | 70°    | 72.5°  | 75°    | 77.5°  | 80°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1730.9 | 1734.5 | 1730.9 | 1722.8 | 1717.7 | 1715.5 | 1719.9 | 1719.9 | 1722.8 | 1726.5 | 1727.2 |
| 5°    | 1703.7 | 1694.9 | 1684.6 | 1674.4 | 1669.2 | 1666.3 | 1658.2 | 1659.7 | 1661.9 | 1663.4 | 1664.8 |
| 7.5°  | 1636.2 | 1624.5 | 1610.5 | 1597.3 | 1592.2 | 1587.8 | 1578.2 | 1578.2 | 1578.2 | 1579.0 | 1583.4 |
| 10°   | 1567.2 | 1562.1 | 1556.2 | 1547.4 | 1540.8 | 1538.6 | 1530.6 | 1532.8 | 1531.3 | 1533.5 | 1538.6 |
| 12.5° | 1535.0 | 1529.1 | 1524.0 | 1515.1 | 1507.8 | 1504.9 | 1501.2 | 1503.4 | 1502.7 | 1506.3 | 1510.7 |
| 15°   | 1505.6 | 1502.7 | 1496.8 | 1490.2 | 1483.6 | 1477.7 | 1464.5 | 1460.1 | 1457.2 | 1453.5 | 1458.7 |
| 17.5° | 1457.2 | 1436.6 | 1422.7 | 1412.4 | 1405.1 | 1400.0 | 1396.3 | 1396.3 | 1398.5 | 1400.7 | 1405.1 |
| 20°   | 1391.1 | 1385.3 | 1378.7 | 1367.7 | 1360.3 | 1357.4 | 1355.2 | 1355.2 | 1358.9 | 1361.8 | 1369.9 |
| 22.5° | 1345.7 | 1344.9 | 1342.7 | 1337.6 | 1333.9 | 1333.9 | 1334.7 | 1336.1 | 1341.3 | 1345.7 | 1353.7 |
| 25°   | 1324.4 | 1327.3 | 1325.8 | 1322.9 | 1320.7 | 1321.4 | 1320.0 | 1321.4 | 1326.6 | 1331.0 | 1337.6 |
| 27.5° | 1307.5 | 1311.9 | 1310.4 | 1306.0 | 1302.4 | 1303.8 | 1306.0 | 1304.6 | 1309.0 | 1314.1 | 1319.2 |
| 30°   | 1284.8 | 1285.5 | 1288.4 | 1283.3 | 1281.8 | 1284.0 | 1284.8 | 1286.2 | 1290.6 | 1294.3 | 1298.7 |
| 32.5° | 1259.1 | 1264.9 | 1264.2 | 1259.1 | 1259.1 | 1261.3 | 1262.0 | 1212.9 | 1121.1 | 965.6  | 923.0  |
| 35°   | 1234.1 | 1240.7 | 1229.7 | 1036.8 | 717.6  | 383.0  | 295.7  | 285.4  | 287.6  | 289.1  | 290.6  |
| 37.5° | 912.8  | 432.9  | 275.9  | 278.1  | 280.3  | 282.5  | 284.7  | 286.9  | 289.1  | 291.3  | 292.0  |
| 40°   | 274.4  | 273.7  | 275.9  | 278.8  | 281.0  | 282.5  | 285.4  | 287.6  | 289.8  | 292.0  | 292.8  |
| 42.5° | 271.5  | 272.9  | 275.1  | 278.1  | 281.0  | 284.0  | 286.2  | 289.1  | 290.6  | 292.0  | 292.8  |
| 45°   | 270.0  | 272.9  | 275.9  | 278.1  | 280.3  | 281.8  | 283.2  | 284.0  | 283.2  | 283.2  | 284.7  |
| 47.5° | 267.8  | 270.7  | 271.5  | 270.7  | 271.5  | 270.7  | 270.7  | 270.7  | 268.5  | 267.8  | 267.8  |
| 50°   | 259.7  | 259.7  | 258.3  | 255.3  | 254.6  | 253.9  | 252.4  | 251.7  | 248.7  | 248.0  | 248.0  |
| 52.5° | 242.9  | 242.1  | 239.9  | 236.3  | 234.8  | 233.3  | 232.6  | 231.9  | 228.9  | 227.5  | 228.2  |
| 55°   | 223.1  | 221.6  | 219.4  | 215.0  | 214.2  | 212.8  | 212.0  | 211.3  | 208.4  | 209.8  | 207.6  |
| 57.5° | 204.7  | 201.8  | 198.8  | 198.1  | 195.2  | 194.4  | 193.7  | 193.0  | 190.8  | 191.5  | 190.0  |
| 60°   | 182.7  | 182.0  | 180.5  | 177.6  | 177.6  | 176.8  | 176.8  | 175.4  | 173.9  | 173.2  | 173.2  |
| 62.5° | 166.6  | 164.4  | 162.9  | 162.9  | 160.7  | 160.7  | 160.7  | 159.2  | 157.8  | 158.5  | 157.8  |
| 65°   | 148.9  | 148.2  | 147.5  | 146.0  | 146.0  | 145.3  | 145.3  | 143.8  | 141.6  | 142.3  | 140.9  |
| 67.5° | 134.3  | 132.8  | 131.3  | 130.6  | 127.7  | 126.2  | 125.5  | 124.7  | 121.8  | 122.5  | 121.1  |
| 70°   | 115.9  | 113.7  | 112.3  | 110.8  | 108.6  | 107.1  | 107.1  | 105.7  | 103.5  | 104.2  | 102.7  |
| 72.5° | 96.9   | 95.4   | 93.9   | 93.2   | 91.0   | 90.2   | 89.5   | 88.8   | 86.6   | 87.3   | 86.6   |
| 75°   | 80.7   | 80.7   | 80.0   | 79.2   | 77.0   | 74.8   | 73.4   | 72.6   | 71.2   | 71.9   | 70.4   |
| 77.5° | 66.8   | 65.3   | 63.8   | 63.8   | 61.6   | 60.2   | 58.7   | 58.7   | 58.7   | 58.0   | 57.2   |
| 80°   | 52.1   | 50.6   | 50.6   | 49.9   | 48.4   | 47.0   | 46.2   | 46.2   | 45.5   | 45.5   | 44.8   |
| 82.5° | 39.6   | 38.2   | 37.4   | 37.4   | 36.0   | 35.2   | 34.5   | 33.8   | 33.8   | 33.8   | 33.0   |
| 85°   | 27.9   | 26.4   | 25.7   | 25.7   | 24.2   | 23.5   | 23.5   | 22.7   | 22.7   | 22.0   | 22.0   |
| 87.5° | 16.9   | 16.1   | 15.4   | 15.4   | 13.9   | 13.2   | 13.2   | 13.2   | 12.5   | 12.5   | 11.7   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 82.5°  | 85°    | 87.5°  | 90°    | 92.5°  | 95°    | 97.5°  | 100°   | 102.5° | 105°   | 107.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1727.2 | 1727.2 | 1722.1 | 1723.5 | 1721.3 | 1724.3 | 1720.6 | 1720.6 | 1725.0 | 1725.0 | 1727.9 |
| 5°    | 1665.6 | 1661.9 | 1661.2 | 1659.7 | 1652.4 | 1655.3 | 1651.6 | 1648.0 | 1653.1 | 1653.1 | 1659.7 |
| 7.5°  | 1581.2 | 1574.6 | 1577.5 | 1573.1 | 1568.7 | 1562.1 | 1564.3 | 1561.4 | 1565.0 | 1570.2 | 1576.8 |
| 10°   | 1537.9 | 1532.0 | 1535.7 | 1531.3 | 1533.5 | 1524.0 | 1524.7 | 1525.4 | 1529.1 | 1530.6 | 1536.4 |
| 12.5° | 1510.0 | 1508.5 | 1507.1 | 1505.6 | 1507.1 | 1501.9 | 1499.0 | 1499.7 | 1501.2 | 1501.9 | 1506.3 |
| 15°   | 1451.3 | 1441.8 | 1444.7 | 1434.4 | 1435.2 | 1435.9 | 1430.0 | 1435.9 | 1435.2 | 1444.7 | 1453.5 |
| 17.5° | 1403.6 | 1403.6 | 1398.5 | 1394.1 | 1391.1 | 1390.4 | 1386.0 | 1388.9 | 1386.0 | 1391.9 | 1394.1 |
| 20°   | 1370.6 | 1369.9 | 1369.1 | 1366.9 | 1359.6 | 1360.3 | 1362.5 | 1355.9 | 1355.2 | 1354.5 | 1358.9 |
| 22.5° | 1355.2 | 1355.9 | 1353.0 | 1353.0 | 1346.4 | 1347.9 | 1348.6 | 1341.3 | 1342.0 | 1339.8 | 1342.0 |
| 25°   | 1339.1 | 1340.5 | 1336.9 | 1336.9 | 1335.4 | 1334.7 | 1331.0 | 1332.4 | 1328.0 | 1324.4 | 1328.0 |
| 27.5° | 1320.0 | 1322.9 | 1320.0 | 1321.4 | 1318.5 | 1317.0 | 1314.8 | 1313.4 | 1309.0 | 1308.2 | 1310.4 |
| 30°   | 1302.4 | 1303.8 | 1303.1 | 1299.4 | 1298.7 | 1294.3 | 1296.5 | 1292.1 | 1287.7 | 1288.4 | 1289.9 |
| 32.5° | 667.7  | 637.6  | 491.6  | 443.9  | 439.5  | 455.6  | 540.0  | 657.4  | 851.9  | 1040.4 | 1176.2 |
| 35°   | 291.3  | 291.3  | 291.3  | 290.6  | 290.6  | 289.8  | 289.1  | 288.4  | 287.6  | 286.9  | 286.2  |
| 37.5° | 292.8  | 292.8  | 292.8  | 292.8  | 292.0  | 291.3  | 291.3  | 289.8  | 289.1  | 288.4  | 287.6  |
| 40°   | 293.5  | 294.2  | 294.2  | 294.2  | 293.5  | 293.5  | 292.8  | 291.3  | 290.6  | 289.1  | 287.6  |
| 42.5° | 292.8  | 293.5  | 293.5  | 292.8  | 292.8  | 292.0  | 292.0  | 291.3  | 290.6  | 289.8  | 289.1  |
| 45°   | 283.2  | 284.0  | 282.5  | 282.5  | 281.8  | 281.8  | 281.8  | 281.8  | 281.8  | 282.5  | 282.5  |
| 47.5° | 266.3  | 266.3  | 265.6  | 264.9  | 264.9  | 264.1  | 264.9  | 264.1  | 265.6  | 266.3  | 267.8  |
| 50°   | 246.5  | 246.5  | 245.1  | 244.3  | 244.3  | 244.3  | 244.3  | 245.1  | 245.8  | 247.3  | 248.7  |
| 52.5° | 226.0  | 226.0  | 225.3  | 224.5  | 223.8  | 223.8  | 226.0  | 225.3  | 226.0  | 226.7  | 228.9  |
| 55°   | 206.2  | 206.9  | 205.4  | 205.4  | 204.7  | 204.7  | 204.7  | 205.4  | 206.2  | 206.9  | 209.1  |
| 57.5° | 189.3  | 189.3  | 187.8  | 187.8  | 187.8  | 187.1  | 189.3  | 187.8  | 188.6  | 189.3  | 190.8  |
| 60°   | 172.4  | 171.7  | 171.7  | 171.0  | 171.0  | 171.0  | 172.4  | 171.7  | 171.7  | 172.4  | 173.9  |
| 62.5° | 157.0  | 157.0  | 156.3  | 156.3  | 155.6  | 155.6  | 157.0  | 156.3  | 156.3  | 157.0  | 157.8  |
| 65°   | 139.4  | 139.4  | 138.7  | 137.9  | 140.1  | 137.9  | 140.1  | 138.7  | 140.1  | 140.9  | 142.3  |
| 67.5° | 119.6  | 119.6  | 119.6  | 118.9  | 118.9  | 120.3  | 121.1  | 119.6  | 120.3  | 121.8  | 122.5  |
| 70°   | 102.0  | 102.0  | 101.3  | 101.3  | 101.3  | 102.7  | 103.5  | 102.0  | 102.7  | 103.5  | 104.9  |
| 72.5° | 86.6   | 85.1   | 85.1   | 84.4   | 85.8   | 85.8   | 86.6   | 85.8   | 86.6   | 86.6   | 88.0   |
| 75°   | 71.2   | 69.7   | 69.7   | 69.7   | 71.2   | 70.4   | 71.2   | 70.4   | 71.2   | 71.2   | 71.9   |
| 77.5° | 57.2   | 56.5   | 55.8   | 55.8   | 57.2   | 57.2   | 57.2   | 56.5   | 57.2   | 58.0   | 58.7   |
| 80°   | 44.8   | 44.0   | 43.3   | 43.3   | 44.8   | 44.8   | 44.8   | 45.5   | 44.8   | 45.5   | 46.2   |
| 82.5° | 33.0   | 32.3   | 31.6   | 33.0   | 33.0   | 33.0   | 33.0   | 33.8   | 33.0   | 33.8   | 34.5   |
| 85°   | 22.0   | 21.3   | 20.5   | 22.0   | 22.0   | 22.0   | 22.0   | 22.7   | 22.0   | 22.7   | 23.5   |
| 87.5° | 11.7   | 11.0   | 11.0   | 11.7   | 11.7   | 11.7   | 12.5   | 12.5   | 12.5   | 13.2   | 13.2   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 112.5° | 115°   | 117.5° | 120°   | 122.5° | 125°   | 127.5° | 130°   | 132.5° | 135°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1732.3 | 1734.5 | 1733.8 | 1729.4 | 1725.0 | 1719.9 | 1716.2 | 1716.9 | 1724.3 | 1726.5 | 1719.9 |
| 5°    | 1659.7 | 1673.6 | 1673.6 | 1683.2 | 1678.0 | 1673.6 | 1676.6 | 1692.7 | 1700.8 | 1713.3 | 1717.7 |
| 7.5°  | 1584.9 | 1591.5 | 1590.7 | 1600.3 | 1598.8 | 1598.8 | 1601.0 | 1622.3 | 1632.5 | 1642.8 | 1645.8 |
| 10°   | 1543.0 | 1549.6 | 1548.9 | 1549.6 | 1547.4 | 1542.3 | 1542.3 | 1551.8 | 1560.6 | 1565.8 | 1567.2 |
| 12.5° | 1512.9 | 1516.6 | 1515.9 | 1515.9 | 1514.4 | 1510.0 | 1509.3 | 1517.3 | 1526.9 | 1533.5 | 1534.2 |
| 15°   | 1468.2 | 1478.5 | 1480.7 | 1490.2 | 1488.0 | 1482.1 | 1483.6 | 1490.2 | 1496.1 | 1501.9 | 1499.7 |
| 17.5° | 1401.4 | 1406.6 | 1407.3 | 1411.0 | 1409.5 | 1409.5 | 1418.3 | 1442.5 | 1458.7 | 1472.6 | 1474.1 |
| 20°   | 1363.3 | 1366.9 | 1365.5 | 1373.5 | 1369.9 | 1369.1 | 1371.3 | 1381.6 | 1388.9 | 1395.6 | 1407.3 |
| 22.5° | 1344.9 | 1347.9 | 1345.7 | 1346.4 | 1339.8 | 1333.9 | 1332.4 | 1340.5 | 1348.6 | 1357.4 | 1357.4 |
| 25°   | 1329.5 | 1331.7 | 1331.0 | 1329.5 | 1324.4 | 1316.3 | 1314.8 | 1316.3 | 1319.2 | 1320.0 | 1314.8 |
| 27.5° | 1311.2 | 1312.6 | 1312.6 | 1313.4 | 1306.8 | 1299.4 | 1298.0 | 1296.5 | 1299.4 | 1298.7 | 1290.6 |
| 30°   | 1292.1 | 1289.9 | 1290.6 | 1291.4 | 1285.5 | 1278.9 | 1276.0 | 1275.2 | 1278.2 | 1277.4 | 1269.3 |
| 32.5° | 1246.6 | 1263.5 | 1264.9 | 1266.4 | 1261.3 | 1255.4 | 1252.5 | 1250.3 | 1251.7 | 1251.0 | 1243.7 |
| 35°   | 285.4  | 290.6  | 355.9  | 805.6  | 1094.0 | 1211.4 | 1223.9 | 1220.9 | 1221.7 | 1221.7 | 1215.8 |
| 37.5° | 286.2  | 285.4  | 284.7  | 282.5  | 280.3  | 278.8  | 482.1  | 1028.0 | 1190.8 | 1191.6 | 1186.4 |
| 40°   | 286.2  | 285.4  | 284.7  | 283.2  | 280.3  | 278.1  | 274.4  | 271.5  | 278.1  | 611.9  | 1119.7 |
| 42.5° | 287.6  | 286.2  | 284.7  | 283.2  | 280.3  | 277.3  | 274.4  | 270.7  | 272.9  | 271.5  | 267.8  |
| 45°   | 283.2  | 282.5  | 282.5  | 281.8  | 280.3  | 277.3  | 273.7  | 269.3  | 267.1  | 269.3  | 265.6  |
| 47.5° | 269.3  | 270.0  | 272.2  | 272.9  | 272.9  | 273.7  | 271.5  | 268.5  | 264.9  | 267.1  | 262.7  |
| 50°   | 250.2  | 251.7  | 252.4  | 256.1  | 257.5  | 260.5  | 261.2  | 261.2  | 260.5  | 263.4  | 260.5  |
| 52.5° | 229.7  | 231.1  | 234.8  | 236.3  | 237.7  | 242.1  | 243.6  | 245.8  | 247.3  | 251.7  | 254.6  |
| 55°   | 209.8  | 210.6  | 212.0  | 215.0  | 217.2  | 220.9  | 223.1  | 225.3  | 228.9  | 231.1  | 239.9  |
| 57.5° | 191.5  | 192.2  | 195.2  | 195.9  | 197.4  | 200.3  | 202.5  | 205.4  | 208.4  | 209.8  | 220.1  |
| 60°   | 173.9  | 174.6  | 176.8  | 177.6  | 178.3  | 181.2  | 183.4  | 185.6  | 187.8  | 189.3  | 196.6  |
| 62.5° | 158.5  | 158.5  | 160.7  | 160.7  | 161.4  | 163.6  | 165.1  | 166.6  | 168.8  | 169.5  | 173.2  |
| 65°   | 143.1  | 143.8  | 145.3  | 145.3  | 146.0  | 147.5  | 148.2  | 148.9  | 151.1  | 151.1  | 154.1  |
| 67.5° | 124.0  | 124.7  | 126.9  | 128.4  | 129.1  | 132.1  | 132.8  | 133.5  | 135.0  | 135.7  | 137.2  |
| 70°   | 105.7  | 106.4  | 108.6  | 109.3  | 110.1  | 112.3  | 113.7  | 115.9  | 118.1  | 120.3  | 121.8  |
| 72.5° | 88.8   | 89.5   | 91.7   | 91.7   | 93.9   | 94.7   | 96.1   | 96.9   | 99.1   | 100.5  | 102.7  |
| 75°   | 72.6   | 73.4   | 75.6   | 75.6   | 77.8   | 78.5   | 79.2   | 80.0   | 81.4   | 82.9   | 84.4   |
| 77.5° | 59.4   | 59.4   | 62.4   | 63.8   | 65.3   | 65.3   | 66.0   | 66.0   | 66.0   | 66.8   | 68.2   |
| 80°   | 47.0   | 47.0   | 49.2   | 50.6   | 52.1   | 52.1   | 52.8   | 53.6   | 54.3   | 54.3   | 55.0   |
| 82.5° | 35.2   | 35.2   | 37.4   | 38.2   | 39.6   | 39.6   | 39.6   | 40.4   | 41.1   | 40.4   | 41.8   |
| 85°   | 24.2   | 24.2   | 25.7   | 26.4   | 27.9   | 27.9   | 27.9   | 28.6   | 29.3   | 28.6   | 29.3   |
| 87.5° | 13.9   | 14.7   | 15.4   | 16.1   | 16.9   | 17.6   | 17.6   | 17.6   | 18.3   | 18.3   | 19.1   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 137.5° | 140°   | 142.5° | 145°   | 147.5° | 150°   | 152.5° | 155°   | 157.5° | 160°   | 162.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1712.5 | 1703.7 | 1703.0 | 1692.7 | 1689.8 | 1690.5 | 1682.4 | 1679.5 | 1666.3 | 1663.4 | 1649.4 |
| 5°    | 1719.1 | 1723.5 | 1721.3 | 1720.6 | 1722.8 | 1721.3 | 1715.5 | 1712.5 | 1710.3 | 1704.4 | 1692.7 |
| 7.5°  | 1646.5 | 1649.4 | 1651.6 | 1661.2 | 1669.2 | 1683.2 | 1697.8 | 1707.4 | 1714.7 | 1716.2 | 1706.7 |
| 10°   | 1572.4 | 1586.3 | 1595.9 | 1610.5 | 1622.3 | 1630.3 | 1639.1 | 1647.2 | 1668.5 | 1689.8 | 1702.2 |
| 12.5° | 1534.2 | 1537.9 | 1537.2 | 1545.2 | 1553.3 | 1574.6 | 1595.1 | 1606.9 | 1623.0 | 1632.5 | 1655.3 |
| 15°   | 1501.9 | 1502.7 | 1504.9 | 1510.7 | 1515.1 | 1522.5 | 1532.0 | 1549.6 | 1581.9 | 1596.6 | 1609.1 |
| 17.5° | 1472.6 | 1472.6 | 1474.1 | 1479.2 | 1485.1 | 1491.7 | 1497.5 | 1504.9 | 1521.0 | 1545.2 | 1576.0 |
| 20°   | 1425.6 | 1446.2 | 1448.4 | 1447.6 | 1450.6 | 1463.1 | 1464.5 | 1477.7 | 1485.8 | 1495.3 | 1525.4 |
| 22.5° | 1355.9 | 1368.4 | 1386.0 | 1413.2 | 1423.4 | 1429.3 | 1433.7 | 1439.6 | 1452.0 | 1463.1 | 1475.5 |
| 25°   | 1317.8 | 1325.8 | 1331.0 | 1339.1 | 1360.3 | 1394.8 | 1401.4 | 1408.0 | 1416.1 | 1424.2 | 1439.6 |
| 27.5° | 1284.0 | 1283.3 | 1287.0 | 1294.3 | 1300.2 | 1318.5 | 1350.8 | 1376.5 | 1377.9 | 1389.7 | 1402.9 |
| 30°   | 1259.8 | 1255.4 | 1250.3 | 1248.8 | 1256.9 | 1266.4 | 1276.0 | 1316.3 | 1344.2 | 1350.1 | 1364.0 |
| 32.5° | 1237.1 | 1229.7 | 1222.4 | 1216.5 | 1211.4 | 1219.5 | 1225.3 | 1242.9 | 1278.9 | 1312.6 | 1320.0 |
| 35°   | 1209.2 | 1201.8 | 1193.0 | 1186.4 | 1178.4 | 1177.6 | 1176.9 | 1193.8 | 1205.5 | 1245.9 | 1281.1 |
| 37.5° | 1180.6 | 1172.5 | 1165.2 | 1157.8 | 1149.8 | 1143.9 | 1140.2 | 1144.6 | 1155.6 | 1173.2 | 1231.9 |
| 40°   | 1150.5 | 1140.9 | 1133.6 | 1127.7 | 1116.7 | 1112.3 | 1105.0 | 1102.1 | 1102.8 | 1118.2 | 1149.0 |
| 42.5° | 687.5  | 1096.2 | 1099.9 | 1093.3 | 1083.7 | 1077.8 | 1069.8 | 1066.1 | 1058.8 | 1066.1 | 1083.7 |
| 45°   | 264.9  | 267.8  | 802.0  | 1059.5 | 1047.8 | 1040.4 | 1033.1 | 1029.4 | 1021.3 | 1015.5 | 1031.6 |
| 47.5° | 259.7  | 262.7  | 256.8  | 363.9  | 1000.1 | 1002.3 | 993.5  | 989.8  | 981.7  | 977.3  | 972.9  |
| 50°   | 256.1  | 258.3  | 253.9  | 255.3  | 250.2  | 916.4  | 953.1  | 948.7  | 939.9  | 934.8  | 926.0  |
| 52.5° | 252.4  | 252.4  | 249.5  | 245.8  | 244.3  | 245.1  | 771.1  | 906.9  | 896.6  | 891.5  | 879.7  |
| 55°   | 240.7  | 242.1  | 245.1  | 239.2  | 237.7  | 237.0  | 234.8  | 734.5  | 848.9  | 843.1  | 832.8  |
| 57.5° | 223.1  | 226.0  | 234.1  | 232.6  | 232.6  | 226.7  | 225.3  | 225.3  | 681.6  | 793.9  | 783.6  |
| 60°   | 202.5  | 205.4  | 214.2  | 217.2  | 219.4  | 217.9  | 216.4  | 215.7  | 212.8  | 718.3  | 731.5  |
| 62.5° | 181.2  | 184.2  | 187.1  | 196.6  | 199.6  | 203.2  | 207.6  | 205.4  | 202.5  | 202.5  | 676.5  |
| 65°   | 158.5  | 162.9  | 164.4  | 173.2  | 176.8  | 183.4  | 187.1  | 192.2  | 190.8  | 190.0  | 193.7  |
| 67.5° | 138.7  | 143.8  | 144.5  | 148.2  | 154.8  | 157.8  | 162.2  | 171.7  | 176.1  | 177.6  | 179.0  |
| 70°   | 121.8  | 124.7  | 126.9  | 128.4  | 132.8  | 133.5  | 141.6  | 148.2  | 154.8  | 162.2  | 164.4  |
| 72.5° | 104.9  | 107.1  | 111.5  | 110.1  | 111.5  | 114.5  | 118.9  | 123.3  | 129.9  | 140.1  | 146.7  |
| 75°   | 85.8   | 87.3   | 90.2   | 91.7   | 94.7   | 96.9   | 99.8   | 103.5  | 109.3  | 114.5  | 123.3  |
| 77.5° | 69.0   | 69.7   | 71.9   | 72.6   | 75.6   | 77.8   | 82.9   | 85.1   | 88.8   | 92.4   | 97.6   |
| 80°   | 55.8   | 55.8   | 56.5   | 56.5   | 58.7   | 60.9   | 64.6   | 66.8   | 71.2   | 74.1   | 74.1   |
| 82.5° | 42.6   | 42.6   | 44.8   | 44.8   | 46.2   | 46.2   | 48.4   | 48.4   | 50.6   | 52.1   | 53.6   |
| 85°   | 30.1   | 30.8   | 32.3   | 31.6   | 33.0   | 32.3   | 33.8   | 35.2   | 36.0   | 35.2   | 34.5   |
| 87.5° | 19.8   | 19.8   | 21.3   | 20.5   | 21.3   | 21.3   | 22.7   | 22.7   | 23.5   | 23.5   | 22.7   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 167.5° | 170°   | 172.5° | 175°   | 177.5° | 180°   | 182.5° | 185°   | 187.5° | 190°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1644.3 | 1633.3 | 1626.7 | 1618.6 | 1616.4 | 1614.2 | 1617.1 | 1617.1 | 1612.7 | 1609.1 | 1602.5 |
| 5°    | 1682.4 | 1670.7 | 1658.2 | 1645.0 | 1632.5 | 1619.3 | 1614.2 | 1613.5 | 1605.4 | 1601.0 | 1598.8 |
| 7.5°  | 1702.2 | 1696.4 | 1682.4 | 1664.1 | 1645.0 | 1621.5 | 1611.3 | 1605.4 | 1597.3 | 1595.9 | 1595.9 |
| 10°   | 1704.4 | 1697.8 | 1690.5 | 1677.3 | 1655.3 | 1624.5 | 1604.7 | 1592.9 | 1585.6 | 1590.7 | 1600.3 |
| 12.5° | 1683.2 | 1695.6 | 1689.0 | 1680.2 | 1662.6 | 1625.2 | 1596.6 | 1579.0 | 1576.8 | 1590.0 | 1614.9 |
| 15°   | 1628.9 | 1665.6 | 1683.9 | 1675.1 | 1661.2 | 1623.7 | 1583.4 | 1562.8 | 1562.8 | 1590.0 | 1622.3 |
| 17.5° | 1587.8 | 1616.4 | 1661.2 | 1668.5 | 1652.4 | 1620.8 | 1570.9 | 1546.7 | 1553.3 | 1592.9 | 1627.4 |
| 20°   | 1554.0 | 1571.6 | 1614.9 | 1656.0 | 1640.6 | 1614.2 | 1552.6 | 1527.6 | 1540.8 | 1588.5 | 1634.7 |
| 22.5° | 1501.2 | 1536.4 | 1562.8 | 1623.7 | 1628.9 | 1601.7 | 1534.2 | 1504.1 | 1530.6 | 1588.5 | 1631.1 |
| 25°   | 1449.8 | 1492.4 | 1520.3 | 1579.7 | 1611.3 | 1586.3 | 1517.3 | 1479.2 | 1519.6 | 1586.3 | 1628.1 |
| 27.5° | 1413.9 | 1433.7 | 1484.3 | 1526.9 | 1584.9 | 1565.8 | 1494.6 | 1452.0 | 1505.6 | 1574.6 | 1611.3 |
| 30°   | 1375.7 | 1388.9 | 1438.8 | 1479.2 | 1549.6 | 1542.3 | 1471.1 | 1422.0 | 1488.0 | 1563.6 | 1567.2 |
| 32.5° | 1333.9 | 1348.6 | 1374.3 | 1433.0 | 1500.5 | 1520.3 | 1444.7 | 1391.9 | 1468.9 | 1546.7 | 1515.9 |
| 35°   | 1291.4 | 1302.4 | 1322.9 | 1386.0 | 1443.2 | 1487.3 | 1412.4 | 1357.4 | 1455.7 | 1521.0 | 1466.7 |
| 37.5° | 1248.8 | 1260.5 | 1278.2 | 1331.0 | 1383.1 | 1456.4 | 1384.5 | 1322.9 | 1431.5 | 1475.5 | 1415.4 |
| 40°   | 1208.4 | 1215.1 | 1233.4 | 1266.4 | 1333.2 | 1424.9 | 1353.0 | 1287.0 | 1406.6 | 1417.6 | 1345.7 |
| 42.5° | 1134.3 | 1167.4 | 1184.2 | 1210.7 | 1276.7 | 1381.6 | 1316.3 | 1248.8 | 1378.7 | 1359.6 | 1276.0 |
| 45°   | 1054.4 | 1126.3 | 1133.6 | 1160.0 | 1226.8 | 1335.4 | 1281.8 | 1211.4 | 1352.3 | 1309.7 | 1209.9 |
| 47.5° | 989.1  | 1041.2 | 1083.7 | 1105.7 | 1167.4 | 1281.1 | 1249.5 | 1179.8 | 1312.6 | 1246.6 | 1145.3 |
| 50°   | 931.1  | 959.0  | 1036.0 | 1052.2 | 1096.2 | 1215.8 | 1211.4 | 1143.1 | 1257.6 | 1167.4 | 1082.2 |
| 52.5° | 874.6  | 894.4  | 964.1  | 998.6  | 1034.6 | 1145.3 | 1165.9 | 1107.2 | 1197.4 | 1088.1 | 1018.4 |
| 55°   | 825.4  | 832.0  | 870.2  | 942.8  | 975.1  | 1074.2 | 1116.0 | 1065.4 | 1121.1 | 1012.5 | 956.8  |
| 57.5° | 774.8  | 768.9  | 796.8  | 890.0  | 913.5  | 1001.5 | 1063.2 | 1022.8 | 1059.5 | 935.5  | 892.9  |
| 60°   | 722.0  | 713.9  | 725.7  | 787.3  | 848.2  | 929.6  | 1000.8 | 975.9  | 984.7  | 859.2  | 821.8  |
| 62.5° | 667.0  | 658.9  | 655.2  | 694.1  | 784.4  | 855.5  | 937.7  | 923.8  | 892.9  | 789.5  | 733.7  |
| 65°   | 609.7  | 601.7  | 595.8  | 611.2  | 713.9  | 759.4  | 867.3  | 863.6  | 792.4  | 716.1  | 617.8  |
| 67.5° | 185.6  | 547.4  | 534.9  | 534.2  | 601.7  | 672.1  | 791.0  | 785.1  | 691.2  | 637.6  | 532.0  |
| 70°   | 167.3  | 443.9  | 471.8  | 465.2  | 494.5  | 583.3  | 703.6  | 699.2  | 592.9  | 511.4  | 470.3  |
| 72.5° | 153.3  | 157.0  | 416.8  | 409.4  | 416.0  | 496.0  | 612.7  | 600.9  | 502.6  | 403.6  | 406.5  |
| 75°   | 131.3  | 137.9  | 143.8  | 345.6  | 336.8  | 410.9  | 513.6  | 495.3  | 414.6  | 333.1  | 339.7  |
| 77.5° | 107.1  | 115.2  | 119.6  | 251.7  | 272.2  | 292.8  | 410.2  | 385.9  | 285.4  | 266.3  | 126.9  |
| 80°   | 80.0   | 86.6   | 93.9   | 100.5  | 206.9  | 204.7  | 304.5  | 280.3  | 198.8  | 165.8  | 99.1   |
| 82.5° | 58.7   | 60.9   | 65.3   | 72.6   | 82.2   | 137.2  | 195.9  | 172.4  | 137.9  | 75.6   | 68.2   |
| 85°   | 36.7   | 39.6   | 41.8   | 44.0   | 49.9   | 82.2   | 96.9   | 77.0   | 58.0   | 46.2   | 43.3   |
| 87.5° | 23.5   | 23.5   | 22.7   | 23.5   | 24.2   | 29.3   | 33.0   | 31.6   | 24.9   | 23.5   | 23.5   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 192.5° | 195°   | 197.5° | 200°   | 202.5° | 205°   | 207.5° | 210°   | 212.5° | 215°   | 217.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1595.1 | 1584.9 | 1584.9 | 1581.9 | 1584.1 | 1584.1 | 1583.4 | 1584.1 | 1589.3 | 1592.2 | 1597.3 |
| 5°    | 1594.4 | 1591.5 | 1598.1 | 1606.1 | 1615.7 | 1627.4 | 1630.3 | 1640.6 | 1650.2 | 1662.6 | 1675.8 |
| 7.5°  | 1603.9 | 1614.2 | 1626.7 | 1639.9 | 1659.0 | 1672.9 | 1685.4 | 1697.8 | 1706.7 | 1718.4 | 1725.7 |
| 10°   | 1617.9 | 1638.4 | 1659.7 | 1676.6 | 1697.1 | 1708.9 | 1716.9 | 1718.4 | 1705.9 | 1686.1 | 1670.0 |
| 12.5° | 1637.7 | 1661.9 | 1681.7 | 1697.8 | 1707.4 | 1703.0 | 1679.5 | 1655.3 | 1641.3 | 1620.8 | 1592.2 |
| 15°   | 1654.6 | 1676.6 | 1697.1 | 1690.5 | 1664.8 | 1640.6 | 1622.3 | 1593.7 | 1565.8 | 1546.7 | 1534.2 |
| 17.5° | 1661.9 | 1683.2 | 1675.8 | 1641.3 | 1617.1 | 1589.3 | 1551.8 | 1529.8 | 1511.5 | 1496.8 | 1489.5 |
| 20°   | 1666.3 | 1662.6 | 1623.0 | 1598.1 | 1551.1 | 1525.4 | 1501.2 | 1480.7 | 1466.7 | 1459.4 | 1457.9 |
| 22.5° | 1654.6 | 1609.8 | 1576.0 | 1531.3 | 1496.8 | 1475.5 | 1456.4 | 1439.6 | 1430.0 | 1424.2 | 1420.5 |
| 25°   | 1615.7 | 1563.6 | 1513.7 | 1478.5 | 1449.1 | 1430.8 | 1416.1 | 1402.2 | 1390.4 | 1387.5 | 1380.1 |
| 27.5° | 1561.4 | 1518.8 | 1452.8 | 1425.6 | 1400.0 | 1391.1 | 1375.0 | 1361.1 | 1350.8 | 1342.0 | 1318.5 |
| 30°   | 1516.6 | 1449.1 | 1401.4 | 1376.5 | 1361.1 | 1350.8 | 1332.4 | 1317.8 | 1300.2 | 1267.9 | 1254.7 |
| 32.5° | 1461.6 | 1394.8 | 1349.3 | 1335.4 | 1316.3 | 1307.5 | 1287.0 | 1254.7 | 1227.5 | 1214.3 | 1213.6 |
| 35°   | 1390.4 | 1335.4 | 1302.4 | 1289.9 | 1274.5 | 1259.8 | 1217.3 | 1187.9 | 1174.7 | 1176.2 | 1187.2 |
| 37.5° | 1331.0 | 1281.8 | 1260.5 | 1242.9 | 1225.3 | 1187.9 | 1152.0 | 1138.0 | 1141.7 | 1149.0 | 1154.2 |
| 40°   | 1270.8 | 1233.4 | 1209.2 | 1195.2 | 1155.6 | 1118.9 | 1099.9 | 1105.0 | 1111.6 | 1116.7 | 1123.3 |
| 42.5° | 1212.1 | 1185.7 | 1161.5 | 1134.3 | 1080.0 | 1060.2 | 1064.6 | 1071.2 | 1077.1 | 1084.4 | 1091.1 |
| 45°   | 1156.4 | 1132.9 | 1105.0 | 1043.4 | 1016.2 | 1021.3 | 1028.0 | 1033.1 | 1041.9 | 1047.0 | 1053.6 |
| 47.5° | 1103.5 | 1078.6 | 1029.4 | 975.1  | 972.2  | 982.5  | 988.3  | 994.9  | 1001.5 | 988.3  | 545.2  |
| 50°   | 1044.1 | 1018.4 | 943.6  | 923.0  | 929.6  | 939.2  | 946.5  | 953.1  | 848.9  | 337.5  | 259.7  |
| 52.5° | 985.4  | 920.1  | 872.4  | 878.3  | 884.9  | 895.9  | 901.0  | 669.2  | 266.3  | 253.9  | 254.6  |
| 55°   | 920.1  | 836.4  | 822.5  | 829.8  | 835.7  | 846.7  | 561.3  | 245.8  | 244.3  | 243.6  | 249.5  |
| 57.5° | 817.4  | 766.7  | 772.6  | 780.0  | 785.8  | 554.7  | 239.2  | 237.7  | 238.5  | 239.2  | 239.9  |
| 60°   | 725.7  | 714.7  | 721.3  | 727.9  | 515.1  | 231.1  | 226.7  | 227.5  | 230.4  | 228.2  | 222.3  |
| 62.5° | 653.0  | 661.8  | 668.4  | 585.5  | 219.4  | 217.2  | 219.4  | 217.2  | 212.0  | 208.4  | 201.0  |
| 65°   | 597.3  | 606.1  | 611.2  | 206.2  | 205.4  | 208.4  | 206.2  | 198.8  | 190.8  | 180.5  | 178.3  |
| 67.5° | 538.6  | 547.4  | 195.9  | 190.8  | 193.7  | 190.0  | 181.2  | 172.4  | 166.6  | 157.8  | 154.1  |
| 70°   | 477.7  | 204.7  | 177.6  | 176.8  | 171.7  | 165.8  | 156.3  | 147.5  | 140.1  | 136.5  | 132.8  |
| 72.5° | 344.9  | 162.2  | 160.0  | 154.1  | 145.3  | 137.2  | 129.1  | 124.0  | 120.3  | 118.1  | 115.9  |
| 75°   | 143.8  | 140.9  | 134.3  | 124.0  | 115.2  | 111.5  | 105.7  | 102.0  | 100.5  | 96.1   | 94.7   |
| 77.5° | 120.3  | 114.5  | 104.9  | 97.6   | 92.4   | 90.2   | 85.8   | 81.4   | 79.2   | 78.5   | 75.6   |
| 80°   | 92.4   | 84.4   | 80.0   | 76.3   | 74.8   | 69.7   | 64.6   | 62.4   | 60.9   | 60.2   | 58.0   |
| 82.5° | 63.1   | 60.2   | 57.2   | 52.1   | 52.1   | 49.9   | 47.7   | 46.2   | 44.8   | 44.8   | 43.3   |
| 85°   | 41.1   | 38.9   | 38.2   | 36.0   | 36.0   | 34.5   | 33.8   | 33.0   | 32.3   | 31.6   | 30.8   |
| 87.5° | 23.5   | 23.5   | 24.2   | 23.5   | 23.5   | 22.7   | 22.0   | 21.3   | 20.5   | 20.5   | 19.1   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 220°   | 222.5° | 225°   | 227.5° | 230°   | 232.5° | 235°   | 237.5° | 240°   | 242.5° | 245°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1603.9 | 1611.3 | 1612.7 | 1637.7 | 1651.6 | 1650.9 | 1646.5 | 1659.7 | 1651.6 | 1647.2 | 1651.6 |
| 5°    | 1689.0 | 1697.8 | 1705.2 | 1732.3 | 1741.9 | 1746.3 | 1745.5 | 1752.9 | 1747.0 | 1741.9 | 1741.9 |
| 7.5°  | 1730.9 | 1733.8 | 1736.7 | 1730.1 | 1725.7 | 1718.4 | 1707.4 | 1691.2 | 1683.2 | 1674.4 | 1663.4 |
| 10°   | 1661.9 | 1652.4 | 1656.0 | 1642.8 | 1631.8 | 1623.7 | 1613.5 | 1600.3 | 1589.3 | 1581.2 | 1568.7 |
| 12.5° | 1577.5 | 1576.8 | 1578.2 | 1580.4 | 1569.4 | 1562.8 | 1554.8 | 1545.2 | 1537.2 | 1528.4 | 1518.1 |
| 15°   | 1526.2 | 1526.9 | 1532.8 | 1530.6 | 1526.9 | 1523.2 | 1514.4 | 1511.5 | 1504.1 | 1494.6 | 1488.7 |
| 17.5° | 1489.5 | 1493.1 | 1499.0 | 1496.1 | 1490.2 | 1486.5 | 1479.9 | 1473.3 | 1466.7 | 1459.4 | 1450.6 |
| 20°   | 1457.2 | 1460.9 | 1464.5 | 1460.9 | 1449.8 | 1444.7 | 1435.9 | 1415.4 | 1400.7 | 1386.0 | 1372.8 |
| 22.5° | 1422.0 | 1424.2 | 1421.2 | 1409.5 | 1381.6 | 1368.4 | 1358.1 | 1352.3 | 1339.8 | 1331.7 | 1323.6 |
| 25°   | 1377.9 | 1365.5 | 1346.4 | 1333.2 | 1322.2 | 1316.3 | 1311.9 | 1311.2 | 1309.7 | 1308.2 | 1304.6 |
| 27.5° | 1306.0 | 1301.6 | 1291.4 | 1286.2 | 1287.0 | 1289.2 | 1289.9 | 1292.1 | 1289.9 | 1287.0 | 1284.0 |
| 30°   | 1252.5 | 1254.7 | 1255.4 | 1256.9 | 1260.5 | 1262.7 | 1263.5 | 1266.4 | 1264.9 | 1262.7 | 1261.3 |
| 32.5° | 1218.7 | 1223.9 | 1226.8 | 1231.2 | 1233.4 | 1237.1 | 1237.1 | 1241.5 | 1237.1 | 1236.3 | 1234.9 |
| 35°   | 1190.8 | 1195.2 | 1196.7 | 1203.3 | 1205.5 | 1209.2 | 1209.2 | 1212.9 | 1209.2 | 1171.8 | 925.2  |
| 37.5° | 1163.0 | 1167.4 | 1170.3 | 1176.2 | 1176.9 | 1179.1 | 1088.1 | 796.1  | 513.6  | 397.7  | 303.8  |
| 40°   | 1129.9 | 1135.1 | 1138.0 | 1140.2 | 801.2  | 508.5  | 350.0  | 284.7  | 284.7  | 286.9  | 289.1  |
| 42.5° | 1094.7 | 1098.4 | 765.3  | 445.4  | 277.3  | 276.6  | 278.8  | 281.0  | 283.2  | 286.2  | 289.1  |
| 45°   | 860.7  | 434.4  | 275.9  | 269.3  | 271.5  | 274.4  | 277.3  | 280.3  | 284.0  | 286.9  | 288.4  |
| 47.5° | 282.5  | 264.9  | 268.5  | 265.6  | 269.3  | 272.9  | 275.9  | 278.8  | 279.6  | 280.3  | 279.6  |
| 50°   | 261.2  | 261.2  | 263.4  | 263.4  | 266.3  | 267.8  | 267.8  | 267.8  | 264.9  | 264.1  | 261.9  |
| 52.5° | 252.4  | 258.3  | 255.3  | 256.8  | 255.3  | 253.1  | 250.9  | 248.7  | 244.3  | 242.9  | 239.9  |
| 55°   | 248.0  | 250.2  | 242.9  | 240.7  | 237.7  | 231.9  | 228.9  | 226.0  | 222.3  | 220.9  | 217.2  |
| 57.5° | 237.7  | 232.6  | 224.5  | 220.9  | 215.7  | 209.8  | 206.9  | 204.7  | 201.0  | 199.6  | 197.4  |
| 60°   | 218.7  | 208.4  | 203.2  | 198.8  | 193.0  | 187.8  | 185.6  | 184.2  | 181.2  | 180.5  | 178.3  |
| 62.5° | 195.2  | 186.4  | 182.0  | 176.1  | 171.7  | 168.8  | 166.6  | 165.8  | 162.9  | 162.9  | 161.4  |
| 65°   | 169.5  | 165.1  | 161.4  | 155.6  | 153.3  | 150.4  | 149.7  | 148.9  | 147.5  | 146.7  | 145.3  |
| 67.5° | 148.9  | 146.0  | 140.9  | 137.9  | 136.5  | 134.3  | 132.8  | 131.3  | 128.4  | 126.9  | 124.7  |
| 70°   | 130.6  | 128.4  | 123.3  | 121.1  | 118.1  | 114.5  | 112.3  | 110.8  | 108.6  | 107.1  | 104.9  |
| 72.5° | 113.0  | 106.4  | 102.7  | 100.5  | 98.3   | 94.7   | 93.9   | 92.4   | 90.2   | 89.5   | 87.3   |
| 75°   | 91.0   | 85.8   | 83.6   | 82.2   | 80.0   | 77.8   | 77.8   | 77.8   | 75.6   | 74.8   | 74.1   |
| 77.5° | 72.6   | 69.7   | 68.2   | 66.8   | 66.0   | 64.6   | 62.4   | 61.6   | 59.4   | 59.4   | 58.7   |
| 80°   | 55.8   | 54.3   | 52.8   | 52.1   | 51.4   | 49.9   | 48.4   | 47.7   | 45.5   | 45.5   | 44.8   |
| 82.5° | 41.1   | 40.4   | 39.6   | 38.9   | 38.2   | 37.4   | 35.2   | 34.5   | 33.0   | 33.0   | 32.3   |
| 85°   | 29.3   | 28.6   | 27.1   | 26.4   | 26.4   | 25.7   | 23.5   | 22.7   | 21.3   | 21.3   | 21.3   |
| 87.5° | 18.3   | 17.6   | 16.9   | 16.1   | 15.4   | 14.7   | 13.2   | 12.5   | 12.5   | 11.0   | 10.3   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 250°   | 252.5° | 255°   | 257.5° | 260°   | 262.5° | 265°   | 267.5° | 270°   | 272.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1642.8 | 1655.3 | 1653.8 | 1662.6 | 1664.8 | 1669.2 | 1670.7 | 1671.4 | 1660.4 | 1669.2 | 1670.0 |
| 5°    | 1739.7 | 1741.9 | 1743.3 | 1747.0 | 1750.7 | 1751.4 | 1747.7 | 1743.3 | 1744.8 | 1741.9 | 1734.5 |
| 7.5°  | 1661.9 | 1650.9 | 1648.7 | 1645.8 | 1644.3 | 1642.8 | 1636.2 | 1642.1 | 1635.5 | 1632.5 | 1622.3 |
| 10°   | 1566.5 | 1556.2 | 1555.5 | 1555.5 | 1557.7 | 1557.0 | 1555.5 | 1552.6 | 1558.4 | 1554.8 | 1552.6 |
| 12.5° | 1516.6 | 1512.9 | 1515.1 | 1513.7 | 1519.6 | 1521.0 | 1519.6 | 1519.6 | 1518.1 | 1515.1 | 1516.6 |
| 15°   | 1486.5 | 1483.6 | 1485.8 | 1483.6 | 1488.0 | 1488.7 | 1485.1 | 1487.3 | 1483.6 | 1479.9 | 1478.5 |
| 17.5° | 1446.9 | 1440.3 | 1435.2 | 1427.8 | 1428.6 | 1427.1 | 1422.7 | 1422.7 | 1419.0 | 1409.5 | 1410.2 |
| 20°   | 1370.6 | 1364.0 | 1361.1 | 1361.1 | 1364.7 | 1366.2 | 1365.5 | 1366.9 | 1363.3 | 1361.8 | 1355.9 |
| 22.5° | 1322.9 | 1322.2 | 1323.6 | 1327.3 | 1333.2 | 1341.3 | 1342.0 | 1342.0 | 1342.0 | 1341.3 | 1333.9 |
| 25°   | 1306.0 | 1306.0 | 1307.5 | 1312.6 | 1317.0 | 1322.9 | 1324.4 | 1325.8 | 1324.4 | 1324.4 | 1317.8 |
| 27.5° | 1287.0 | 1285.5 | 1288.4 | 1293.6 | 1298.7 | 1303.1 | 1306.8 | 1307.5 | 1305.3 | 1305.3 | 1307.5 |
| 30°   | 1263.5 | 1262.7 | 1266.4 | 1271.6 | 1276.0 | 1280.4 | 1284.0 | 1287.0 | 1284.0 | 1284.0 | 1281.8 |
| 32.5° | 1239.3 | 1239.3 | 1240.7 | 1209.9 | 1121.9 | 1010.3 | 1012.5 | 948.0  | 903.2  | 846.7  | 921.6  |
| 35°   | 773.3  | 562.8  | 483.5  | 409.4  | 357.3  | 323.6  | 322.8  | 311.8  | 306.7  | 303.0  | 302.3  |
| 37.5° | 292.0  | 293.5  | 296.4  | 297.9  | 300.1  | 301.6  | 302.3  | 302.3  | 302.3  | 302.3  | 301.6  |
| 40°   | 291.3  | 294.2  | 296.4  | 298.6  | 300.8  | 302.3  | 302.3  | 303.0  | 303.8  | 303.8  | 303.8  |
| 42.5° | 292.0  | 295.0  | 297.9  | 300.1  | 301.6  | 302.3  | 303.0  | 303.8  | 303.8  | 303.8  | 303.8  |
| 45°   | 291.3  | 292.8  | 292.8  | 293.5  | 293.5  | 293.5  | 294.2  | 294.2  | 293.5  | 292.8  | 294.2  |
| 47.5° | 280.3  | 280.3  | 278.1  | 277.3  | 276.6  | 275.1  | 275.9  | 275.1  | 274.4  | 273.7  | 275.1  |
| 50°   | 261.2  | 258.3  | 256.8  | 255.3  | 254.6  | 253.1  | 253.9  | 253.1  | 252.4  | 250.9  | 253.1  |
| 52.5° | 238.5  | 237.7  | 234.8  | 233.3  | 232.6  | 233.3  | 231.9  | 231.1  | 230.4  | 229.7  | 230.4  |
| 55°   | 216.4  | 213.5  | 212.8  | 211.3  | 210.6  | 211.3  | 210.6  | 209.8  | 209.1  | 208.4  | 209.1  |
| 57.5° | 196.6  | 194.4  | 193.7  | 192.2  | 192.2  | 192.2  | 192.2  | 191.5  | 190.8  | 190.0  | 190.8  |
| 60°   | 177.6  | 176.1  | 175.4  | 175.4  | 174.6  | 174.6  | 174.6  | 173.9  | 173.2  | 173.2  | 173.9  |
| 62.5° | 161.4  | 161.4  | 159.2  | 158.5  | 158.5  | 159.2  | 158.5  | 157.8  | 157.0  | 156.3  | 157.8  |
| 65°   | 144.5  | 141.6  | 140.9  | 139.4  | 137.9  | 138.7  | 137.9  | 137.2  | 136.5  | 135.7  | 137.2  |
| 67.5° | 124.0  | 123.3  | 120.3  | 118.9  | 118.1  | 118.9  | 118.1  | 117.4  | 116.7  | 115.9  | 117.4  |
| 70°   | 104.2  | 104.2  | 101.3  | 100.5  | 99.8   | 99.8   | 99.1   | 99.1   | 98.3   | 97.6   | 99.1   |
| 72.5° | 86.6   | 86.6   | 85.8   | 84.4   | 83.6   | 82.9   | 82.2   | 81.4   | 81.4   | 82.2   | 82.2   |
| 75°   | 71.9   | 70.4   | 67.5   | 68.2   | 67.5   | 66.8   | 66.8   | 66.0   | 65.3   | 66.8   | 66.0   |
| 77.5° | 56.5   | 55.8   | 53.6   | 54.3   | 53.6   | 52.8   | 52.8   | 52.1   | 51.4   | 52.1   | 52.1   |
| 80°   | 42.6   | 42.6   | 41.8   | 41.1   | 41.1   | 40.4   | 39.6   | 39.6   | 38.9   | 39.6   | 39.6   |
| 82.5° | 30.8   | 30.8   | 30.1   | 29.3   | 28.6   | 28.6   | 27.9   | 27.9   | 27.9   | 27.9   | 27.9   |
| 85°   | 19.8   | 19.1   | 19.1   | 17.6   | 17.6   | 17.6   | 16.9   | 16.9   | 16.9   | 16.9   | 16.9   |
| 87.5° | 9.5    | 9.5    | 8.8    | 8.8    | 8.1    | 7.3    | 7.3    | 6.6    | 6.6    | 7.3    | 7.3    |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 275°   | 277.5° | 280°   | 282.5° | 285°   | 287.5° | 290°   | 292.5° | 295°   | 297.5° | 300°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1656.8 | 1666.3 | 1658.2 | 1661.9 | 1662.6 | 1675.1 | 1674.4 | 1677.3 | 1672.2 | 1666.3 | 1658.2 |
| 5°    | 1741.1 | 1736.7 | 1730.9 | 1744.8 | 1737.5 | 1746.3 | 1749.2 | 1755.1 | 1755.1 | 1754.3 | 1747.7 |
| 7.5°  | 1633.3 | 1623.7 | 1631.1 | 1636.2 | 1638.4 | 1632.5 | 1644.3 | 1657.5 | 1668.5 | 1675.1 | 1675.8 |
| 10°   | 1548.9 | 1551.8 | 1551.1 | 1553.3 | 1558.4 | 1557.7 | 1565.0 | 1572.4 | 1575.3 | 1579.7 | 1581.2 |
| 12.5° | 1509.3 | 1508.5 | 1510.0 | 1515.1 | 1518.1 | 1517.3 | 1524.7 | 1529.1 | 1530.6 | 1531.3 | 1530.6 |
| 15°   | 1477.7 | 1472.6 | 1476.3 | 1477.0 | 1479.2 | 1479.2 | 1488.0 | 1494.6 | 1497.5 | 1499.0 | 1497.5 |
| 17.5° | 1418.3 | 1405.8 | 1417.6 | 1417.6 | 1425.6 | 1424.2 | 1438.1 | 1449.1 | 1455.0 | 1459.4 | 1459.4 |
| 20°   | 1359.6 | 1353.7 | 1358.1 | 1356.7 | 1362.5 | 1361.8 | 1370.6 | 1377.9 | 1383.1 | 1386.7 | 1391.1 |
| 22.5° | 1336.1 | 1337.6 | 1331.0 | 1331.7 | 1331.7 | 1331.0 | 1335.4 | 1339.1 | 1340.5 | 1342.7 | 1341.3 |
| 25°   | 1320.7 | 1322.2 | 1320.0 | 1316.3 | 1314.8 | 1316.3 | 1318.5 | 1322.9 | 1323.6 | 1322.2 | 1317.0 |
| 27.5° | 1305.3 | 1300.9 | 1304.6 | 1298.0 | 1296.5 | 1299.4 | 1302.4 | 1303.1 | 1303.8 | 1303.8 | 1299.4 |
| 30°   | 1281.8 | 1278.2 | 1281.8 | 1278.9 | 1276.0 | 1278.9 | 1281.1 | 1281.1 | 1282.6 | 1283.3 | 1278.2 |
| 32.5° | 895.9  | 903.2  | 1022.1 | 1094.0 | 1195.2 | 1246.6 | 1256.1 | 1256.1 | 1257.6 | 1257.6 | 1253.2 |
| 35°   | 305.2  | 306.0  | 330.9  | 358.8  | 418.2  | 491.6  | 587.7  | 637.6  | 806.4  | 1008.1 | 1203.3 |
| 37.5° | 301.6  | 300.8  | 300.1  | 299.4  | 298.6  | 297.9  | 296.4  | 295.7  | 300.1  | 355.9  | 482.8  |
| 40°   | 303.0  | 302.3  | 300.8  | 300.1  | 299.4  | 297.9  | 297.2  | 295.7  | 294.2  | 292.8  | 291.3  |
| 42.5° | 303.0  | 302.3  | 301.6  | 300.8  | 300.1  | 299.4  | 297.9  | 296.4  | 295.0  | 292.8  | 290.6  |
| 45°   | 292.8  | 292.8  | 293.5  | 293.5  | 294.2  | 294.2  | 294.2  | 293.5  | 293.5  | 292.8  | 289.8  |
| 47.5° | 273.7  | 273.7  | 275.9  | 275.9  | 277.3  | 278.8  | 278.8  | 280.3  | 282.5  | 284.0  | 284.7  |
| 50°   | 251.7  | 251.7  | 253.9  | 254.6  | 256.1  | 258.3  | 260.5  | 261.2  | 263.4  | 266.3  | 269.3  |
| 52.5° | 229.7  | 229.7  | 231.9  | 231.9  | 233.3  | 235.5  | 237.7  | 238.5  | 241.4  | 244.3  | 248.0  |
| 55°   | 209.1  | 209.1  | 210.6  | 211.3  | 212.0  | 213.5  | 215.7  | 215.7  | 218.7  | 220.9  | 224.5  |
| 57.5° | 190.8  | 192.2  | 192.2  | 192.2  | 193.0  | 194.4  | 195.9  | 195.9  | 198.1  | 200.3  | 203.2  |
| 60°   | 173.2  | 174.6  | 174.6  | 174.6  | 175.4  | 176.1  | 177.6  | 177.6  | 179.0  | 180.5  | 183.4  |
| 62.5° | 157.0  | 158.5  | 158.5  | 159.2  | 159.2  | 160.0  | 161.4  | 160.7  | 162.2  | 162.9  | 165.1  |
| 65°   | 136.5  | 137.9  | 138.7  | 139.4  | 140.1  | 141.6  | 143.8  | 143.1  | 145.3  | 146.7  | 148.9  |
| 67.5° | 116.7  | 118.1  | 118.1  | 118.9  | 119.6  | 121.1  | 122.5  | 122.5  | 124.7  | 126.2  | 129.1  |
| 70°   | 98.3   | 99.8   | 99.8   | 100.5  | 101.3  | 102.7  | 104.2  | 103.5  | 105.7  | 107.1  | 109.3  |
| 72.5° | 81.4   | 82.9   | 82.9   | 83.6   | 83.6   | 85.1   | 86.6   | 88.0   | 88.0   | 89.5   | 91.0   |
| 75°   | 66.0   | 66.8   | 67.5   | 67.5   | 68.2   | 69.0   | 70.4   | 71.9   | 72.6   | 73.4   | 74.8   |
| 77.5° | 52.1   | 52.8   | 53.6   | 53.6   | 54.3   | 55.0   | 55.8   | 58.7   | 60.2   | 60.9   | 60.9   |
| 80°   | 39.6   | 40.4   | 40.4   | 40.4   | 41.1   | 41.8   | 43.3   | 43.3   | 46.2   | 46.2   | 47.0   |
| 82.5° | 27.9   | 28.6   | 28.6   | 28.6   | 29.3   | 30.8   | 31.6   | 32.3   | 33.8   | 34.5   | 34.5   |
| 85°   | 16.9   | 17.6   | 17.6   | 17.6   | 18.3   | 19.1   | 20.5   | 21.3   | 22.0   | 22.0   | 22.7   |
| 87.5° | 6.6    | 7.3    | 8.1    | 8.1    | 8.8    | 9.5    | 10.3   | 11.0   | 11.7   | 11.7   | 12.5   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 302.5° | 305°   | 307.5° | 310°   | 312.5° | 315°   | 317.5° | 320°   | 322.5° | 325°   | 327.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1649.4 | 1654.6 | 1649.4 | 1652.4 | 1656.0 | 1649.4 | 1634.0 | 1628.1 | 1625.9 | 1617.1 | 1611.3 |
| 5°    | 1741.1 | 1741.1 | 1738.9 | 1744.8 | 1744.1 | 1733.8 | 1717.7 | 1710.3 | 1703.0 | 1693.4 | 1686.1 |
| 7.5°  | 1675.8 | 1681.7 | 1685.4 | 1708.1 | 1722.8 | 1724.3 | 1734.5 | 1736.7 | 1739.7 | 1736.7 | 1732.3 |
| 10°   | 1581.9 | 1579.7 | 1590.0 | 1611.3 | 1623.7 | 1630.3 | 1650.2 | 1659.7 | 1667.8 | 1683.9 | 1700.8 |
| 12.5° | 1529.1 | 1532.0 | 1536.4 | 1551.8 | 1563.6 | 1560.6 | 1568.7 | 1575.3 | 1584.9 | 1601.0 | 1625.2 |
| 15°   | 1493.9 | 1496.8 | 1501.2 | 1512.9 | 1520.3 | 1516.6 | 1521.0 | 1525.4 | 1532.0 | 1540.1 | 1554.8 |
| 17.5° | 1455.7 | 1460.9 | 1466.0 | 1478.5 | 1485.1 | 1484.3 | 1488.0 | 1489.5 | 1491.7 | 1496.8 | 1507.1 |
| 20°   | 1396.3 | 1412.4 | 1422.7 | 1439.6 | 1449.1 | 1447.6 | 1454.2 | 1456.4 | 1459.4 | 1464.5 | 1468.9 |
| 22.5° | 1342.0 | 1346.4 | 1351.5 | 1369.9 | 1386.0 | 1405.8 | 1410.2 | 1416.1 | 1423.4 | 1428.6 | 1433.0 |
| 25°   | 1311.2 | 1308.2 | 1310.4 | 1322.9 | 1331.7 | 1333.2 | 1339.8 | 1358.9 | 1378.7 | 1387.5 | 1397.8 |
| 27.5° | 1292.8 | 1289.9 | 1289.2 | 1295.0 | 1296.5 | 1292.8 | 1291.4 | 1297.2 | 1311.9 | 1326.6 | 1357.4 |
| 30°   | 1273.0 | 1269.3 | 1266.4 | 1271.6 | 1273.8 | 1268.6 | 1259.1 | 1253.9 | 1262.7 | 1266.4 | 1278.9 |
| 32.5° | 1249.5 | 1245.9 | 1244.4 | 1247.3 | 1248.8 | 1244.4 | 1234.1 | 1228.3 | 1226.8 | 1223.9 | 1226.8 |
| 35°   | 1223.1 | 1219.5 | 1217.3 | 1218.0 | 1220.9 | 1217.3 | 1208.4 | 1201.1 | 1197.4 | 1189.4 | 1183.5 |
| 37.5° | 630.3  | 892.9  | 1159.3 | 1187.2 | 1190.1 | 1189.4 | 1180.6 | 1172.5 | 1168.8 | 1159.3 | 1156.4 |
| 40°   | 288.4  | 322.1  | 483.5  | 631.7  | 911.3  | 1157.8 | 1149.8 | 1141.7 | 1135.1 | 1132.1 | 1121.1 |
| 42.5° | 287.6  | 288.4  | 289.1  | 285.4  | 353.7  | 602.4  | 889.3  | 1110.1 | 1105.7 | 1098.4 | 1090.3 |
| 45°   | 287.6  | 284.0  | 286.9  | 282.5  | 284.0  | 283.2  | 352.9  | 569.4  | 1013.3 | 1058.8 | 1055.1 |
| 47.5° | 284.7  | 282.5  | 285.4  | 281.8  | 277.3  | 279.6  | 276.6  | 280.3  | 437.3  | 741.8  | 1016.2 |
| 50°   | 271.5  | 272.9  | 278.1  | 277.3  | 273.7  | 276.6  | 271.5  | 275.9  | 272.2  | 298.6  | 575.2  |
| 52.5° | 251.7  | 254.6  | 259.7  | 264.1  | 265.6  | 269.3  | 267.8  | 269.3  | 266.3  | 267.1  | 267.8  |
| 55°   | 228.2  | 231.9  | 236.3  | 242.9  | 245.8  | 251.7  | 256.1  | 258.3  | 261.9  | 261.2  | 255.3  |
| 57.5° | 206.2  | 209.8  | 213.5  | 220.1  | 226.7  | 229.7  | 237.7  | 242.1  | 251.7  | 249.5  | 248.0  |
| 60°   | 185.6  | 188.6  | 192.2  | 193.7  | 201.8  | 206.9  | 214.2  | 218.7  | 231.1  | 234.1  | 238.5  |
| 62.5° | 167.3  | 168.8  | 171.7  | 173.9  | 179.0  | 184.2  | 187.8  | 195.2  | 201.8  | 211.3  | 217.9  |
| 65°   | 150.4  | 151.9  | 154.1  | 155.6  | 156.3  | 163.6  | 165.8  | 173.9  | 176.1  | 186.4  | 192.2  |
| 67.5° | 131.3  | 134.3  | 137.2  | 138.7  | 140.1  | 144.5  | 146.0  | 149.7  | 154.8  | 159.2  | 166.6  |
| 70°   | 111.5  | 113.7  | 116.7  | 118.9  | 121.8  | 124.7  | 129.1  | 131.3  | 135.0  | 137.9  | 143.8  |
| 72.5° | 93.2   | 95.4   | 96.9   | 99.1   | 101.3  | 103.5  | 107.1  | 112.3  | 115.2  | 120.3  | 121.8  |
| 75°   | 75.6   | 77.8   | 79.2   | 80.7   | 82.9   | 84.4   | 85.8   | 91.0   | 93.9   | 98.3   | 102.7  |
| 77.5° | 62.4   | 62.4   | 63.8   | 68.2   | 67.5   | 67.5   | 69.0   | 71.9   | 74.1   | 77.0   | 81.4   |
| 80°   | 48.4   | 49.2   | 49.9   | 53.6   | 54.3   | 55.0   | 54.3   | 56.5   | 58.7   | 59.4   | 62.4   |
| 82.5° | 36.0   | 36.7   | 36.7   | 38.9   | 41.1   | 41.1   | 41.1   | 41.8   | 44.0   | 44.8   | 46.2   |
| 85°   | 24.2   | 24.9   | 25.7   | 26.4   | 27.9   | 28.6   | 29.3   | 29.3   | 30.8   | 31.6   | 32.3   |
| 87.5° | 13.2   | 14.7   | 15.4   | 16.1   | 16.9   | 17.6   | 18.3   | 19.1   | 19.8   | 20.5   | 21.3   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 330°   | 332.5° | 335°   | 337.5° | 340°   | 342.5° | 345°   | 347.5° | 350°   | 352.5° | 355°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 | 1601.0 |
| 2.5°  | 1609.1 | 1605.4 | 1603.2 | 1597.3 | 1595.9 | 1586.3 | 1587.8 | 1586.3 | 1586.3 | 1588.5 | 1595.9 |
| 5°    | 1678.0 | 1660.4 | 1656.0 | 1643.6 | 1633.3 | 1615.7 | 1604.7 | 1598.8 | 1590.0 | 1586.3 | 1591.5 |
| 7.5°  | 1725.0 | 1711.8 | 1700.8 | 1689.8 | 1675.1 | 1654.6 | 1639.1 | 1621.5 | 1606.9 | 1592.9 | 1589.3 |
| 10°   | 1716.9 | 1731.6 | 1731.6 | 1725.0 | 1711.1 | 1690.5 | 1672.2 | 1650.2 | 1624.5 | 1602.5 | 1589.3 |
| 12.5° | 1648.7 | 1674.4 | 1694.9 | 1710.3 | 1724.3 | 1710.3 | 1692.0 | 1674.4 | 1645.8 | 1613.5 | 1589.3 |
| 15°   | 1573.8 | 1600.3 | 1625.9 | 1658.2 | 1692.0 | 1705.9 | 1705.2 | 1684.6 | 1659.0 | 1625.2 | 1591.5 |
| 17.5° | 1521.0 | 1539.4 | 1553.3 | 1588.5 | 1629.6 | 1665.6 | 1689.8 | 1691.2 | 1666.3 | 1636.2 | 1592.2 |
| 20°   | 1481.4 | 1494.6 | 1506.3 | 1526.2 | 1562.1 | 1606.1 | 1650.9 | 1675.8 | 1671.4 | 1638.4 | 1594.4 |
| 22.5° | 1445.4 | 1455.0 | 1464.5 | 1479.2 | 1507.8 | 1536.4 | 1588.5 | 1639.9 | 1661.9 | 1634.7 | 1592.2 |
| 25°   | 1409.5 | 1419.8 | 1427.1 | 1437.4 | 1460.1 | 1483.6 | 1520.3 | 1584.1 | 1633.3 | 1631.8 | 1587.8 |
| 27.5° | 1366.9 | 1380.9 | 1389.7 | 1403.6 | 1419.0 | 1436.6 | 1461.6 | 1521.8 | 1592.2 | 1617.1 | 1576.0 |
| 30°   | 1315.6 | 1336.1 | 1349.3 | 1364.7 | 1377.9 | 1393.3 | 1413.2 | 1449.8 | 1537.2 | 1588.5 | 1563.6 |
| 32.5° | 1241.5 | 1278.2 | 1307.5 | 1322.2 | 1336.9 | 1350.1 | 1367.7 | 1398.5 | 1469.7 | 1549.6 | 1549.6 |
| 35°   | 1188.6 | 1205.5 | 1231.9 | 1274.5 | 1292.8 | 1306.0 | 1322.2 | 1346.4 | 1391.9 | 1503.4 | 1526.9 |
| 37.5° | 1147.6 | 1154.2 | 1167.4 | 1209.2 | 1243.7 | 1264.9 | 1281.1 | 1296.5 | 1341.3 | 1440.3 | 1497.5 |
| 40°   | 1116.7 | 1114.5 | 1113.1 | 1132.9 | 1182.0 | 1215.8 | 1234.1 | 1249.5 | 1284.0 | 1364.7 | 1458.7 |
| 42.5° | 1080.8 | 1078.6 | 1071.2 | 1076.4 | 1100.6 | 1157.1 | 1185.0 | 1201.8 | 1230.5 | 1285.5 | 1416.1 |
| 45°   | 1043.4 | 1039.7 | 1036.8 | 1031.6 | 1040.4 | 1072.0 | 1129.2 | 1154.2 | 1170.3 | 1219.5 | 1362.5 |
| 47.5° | 1005.2 | 1000.1 | 996.4  | 992.0  | 986.9  | 1001.5 | 1055.8 | 1100.6 | 1128.5 | 1159.3 | 1298.0 |
| 50°   | 950.9  | 957.5  | 953.1  | 948.0  | 943.6  | 940.6  | 963.4  | 1036.8 | 1071.2 | 1096.2 | 1219.5 |
| 52.5° | 448.3  | 871.7  | 908.4  | 903.2  | 897.3  | 892.2  | 897.3  | 953.1  | 1015.5 | 1035.3 | 1124.8 |
| 55°   | 255.3  | 388.1  | 807.8  | 854.1  | 848.9  | 841.6  | 837.2  | 856.3  | 949.4  | 975.9  | 1038.2 |
| 57.5° | 245.8  | 246.5  | 356.6  | 769.7  | 798.3  | 791.7  | 786.6  | 791.0  | 870.2  | 915.0  | 962.7  |
| 60°   | 237.7  | 237.7  | 237.7  | 340.4  | 735.9  | 738.1  | 731.5  | 724.2  | 758.7  | 846.7  | 886.3  |
| 62.5° | 220.1  | 224.5  | 226.7  | 226.7  | 336.0  | 681.6  | 675.0  | 672.8  | 674.3  | 764.5  | 810.0  |
| 65°   | 197.4  | 207.6  | 212.0  | 215.0  | 215.0  | 352.9  | 617.1  | 613.4  | 608.3  | 642.7  | 733.0  |
| 67.5° | 172.4  | 182.7  | 192.2  | 198.1  | 198.8  | 205.4  | 368.3  | 552.5  | 545.2  | 545.9  | 650.8  |
| 70°   | 146.7  | 155.6  | 165.8  | 174.6  | 182.7  | 186.4  | 192.2  | 458.6  | 482.8  | 472.5  | 557.6  |
| 72.5° | 126.9  | 130.6  | 137.9  | 146.7  | 156.3  | 165.1  | 170.2  | 182.7  | 419.0  | 408.0  | 424.1  |
| 75°   | 105.7  | 108.6  | 113.7  | 119.6  | 126.9  | 137.2  | 146.0  | 154.8  | 222.3  | 341.9  | 339.7  |
| 77.5° | 82.2   | 87.3   | 93.2   | 96.9   | 100.5  | 107.9  | 119.6  | 128.4  | 137.2  | 231.1  | 272.2  |
| 80°   | 63.1   | 66.8   | 69.7   | 73.4   | 77.8   | 82.9   | 87.3   | 97.6   | 107.9  | 115.9  | 208.4  |
| 82.5° | 47.0   | 49.2   | 51.4   | 52.8   | 54.3   | 57.2   | 65.3   | 69.0   | 75.6   | 82.9   | 98.3   |
| 85°   | 33.0   | 34.5   | 36.0   | 36.7   | 37.4   | 38.2   | 41.1   | 41.8   | 48.4   | 49.9   | 59.4   |
| 87.5° | 21.3   | 22.0   | 23.5   | 24.2   | 24.2   | 24.9   | 25.7   | 25.7   | 25.7   | 24.2   | 29.3   |
| 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: P1214099

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 357.5° | 360°   |
|-------|--------|--------|
| 0°    | 1601.0 | 1601.0 |
| 2.5°  | 1601.7 | 1613.5 |
| 5°    | 1599.5 | 1614.9 |
| 7.5°  | 1593.7 | 1608.3 |
| 10°   | 1584.9 | 1602.5 |
| 12.5° | 1575.3 | 1592.2 |
| 15°   | 1567.2 | 1579.7 |
| 17.5° | 1558.4 | 1565.8 |
| 20°   | 1546.7 | 1552.6 |
| 22.5° | 1535.0 | 1532.0 |
| 25°   | 1521.8 | 1515.1 |
| 27.5° | 1504.9 | 1492.4 |
| 30°   | 1489.5 | 1467.5 |
| 32.5° | 1474.8 | 1438.8 |
| 35°   | 1455.0 | 1409.5 |
| 37.5° | 1434.4 | 1379.4 |
| 40°   | 1410.2 | 1344.9 |
| 42.5° | 1384.5 | 1310.4 |
| 45°   | 1352.3 | 1277.4 |
| 47.5° | 1323.6 | 1237.8 |
| 50°   | 1284.0 | 1195.2 |
| 52.5° | 1235.6 | 1155.6 |
| 55°   | 1178.4 | 1107.2 |
| 57.5° | 1116.7 | 1056.6 |
| 60°   | 1050.7 | 998.6  |
| 62.5° | 970.7  | 938.4  |
| 65°   | 876.8  | 869.5  |
| 67.5° | 754.3  | 793.2  |
| 70°   | 618.5  | 705.8  |
| 72.5° | 517.3  | 613.4  |
| 75°   | 424.1  | 509.9  |
| 77.5° | 336.0  | 399.9  |
| 80°   | 209.8  | 292.8  |
| 82.5° | 140.9  | 192.2  |
| 85°   | 85.1   | 91.7   |
| 87.5° | 33.0   | 33.8   |
| 90°   | 0.0    | 0.0    |

(END OF REPORT)