

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: P1213769

Luminaire Tested: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)  
Test Lab: INNOVATIONS CENTER-P3  
Issue Date: 3/29/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

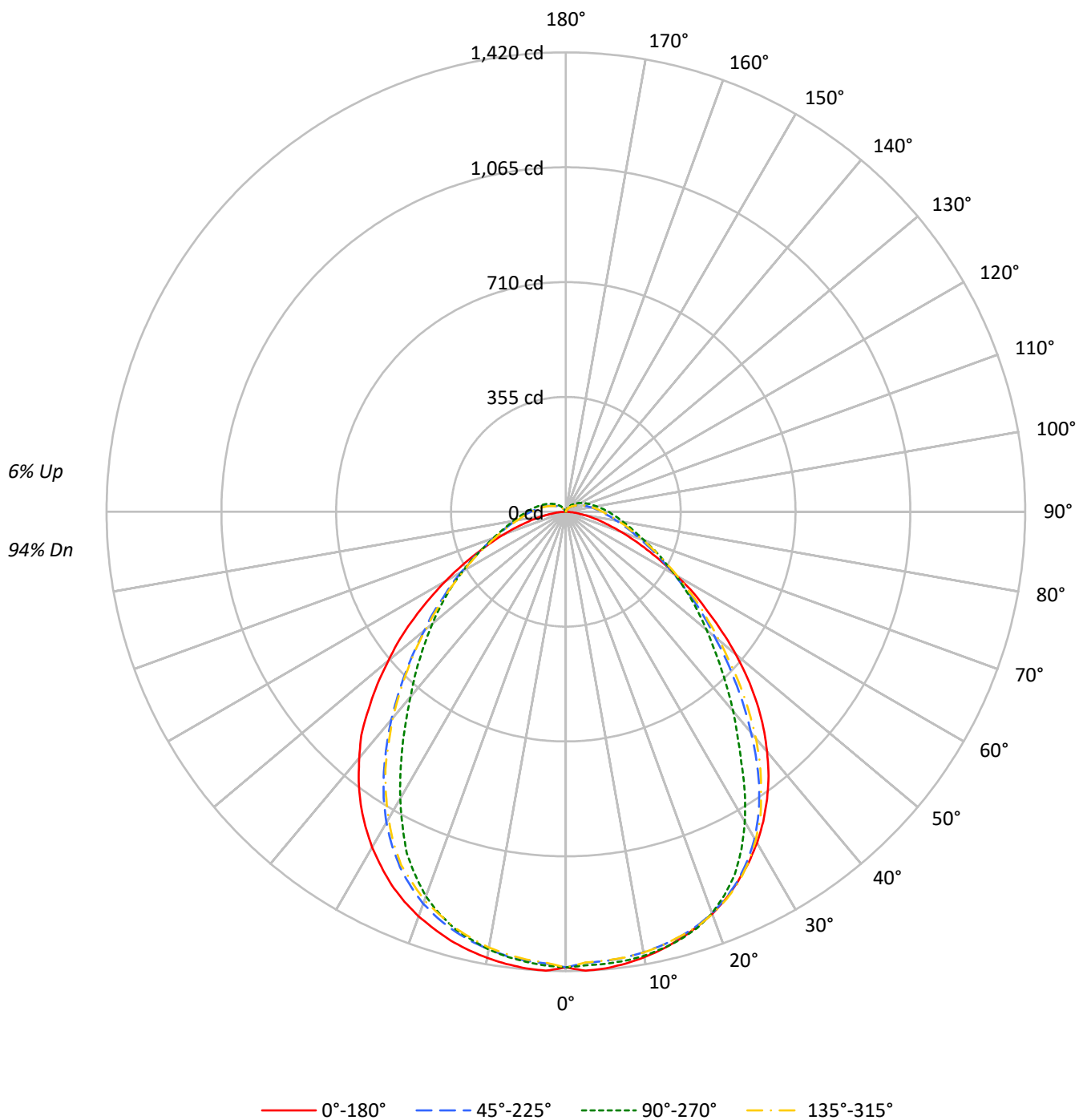
Lumens per Lamp: N/A  
Luminaire Lumens: 3564.0 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213769

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 |
| 1   | 107 | 103 | 98  | 95  | 104 | 100 | 96  | 92  | 94  | 91  | 88  | 89  | 87  | 85  | 85 | 83 | 81 |
| 2   | 98  | 90  | 84  | 78  | 95  | 88  | 82  | 77  | 83  | 78  | 74  | 79  | 75  | 72  | 75 | 72 | 69 |
| 3   | 90  | 80  | 72  | 66  | 87  | 78  | 71  | 65  | 74  | 68  | 63  | 71  | 66  | 61  | 67 | 63 | 60 |
| 4   | 83  | 72  | 63  | 57  | 80  | 70  | 62  | 56  | 67  | 60  | 55  | 64  | 58  | 53  | 61 | 56 | 52 |
| 5   | 77  | 64  | 56  | 50  | 74  | 63  | 55  | 49  | 60  | 53  | 48  | 58  | 52  | 47  | 55 | 50 | 46 |
| 6   | 71  | 58  | 50  | 44  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 52  | 46  | 42  | 50 | 45 | 41 |
| 7   | 66  | 53  | 45  | 39  | 64  | 52  | 44  | 39  | 50  | 43  | 38  | 48  | 42  | 37  | 46 | 41 | 37 |
| 8   | 62  | 49  | 41  | 35  | 60  | 48  | 40  | 35  | 46  | 39  | 34  | 44  | 38  | 34  | 43 | 37 | 33 |
| 9   | 58  | 45  | 37  | 32  | 56  | 44  | 37  | 31  | 42  | 36  | 31  | 41  | 35  | 30  | 40 | 34 | 30 |
| 10  | 54  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 39  | 33  | 28  | 38  | 32  | 28  | 37 | 31 | 27 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 11380 | 11380 | 11380 | 11380 |
| 5°  | 11462 | 11018 | 11462 | 10970 |
| 10° | 11410 | 10726 | 11429 | 10576 |
| 15° | 11337 | 10405 | 11389 | 10134 |
| 20° | 11250 | 9993  | 11316 | 9571  |
| 25° | 11070 | 9381  | 11192 | 8829  |
| 30° | 10835 | 8484  | 10977 | 7854  |
| 35° | 10470 | 7383  | 10671 | 6874  |
| 40° | 9945  | 6456  | 10209 | 5990  |
| 45° | 9255  | 5613  | 9555  | 5290  |
| 50° | 8310  | 4932  | 8676  | 4683  |
| 55° | 7187  | 4356  | 7710  | 4135  |
| 60° | 6045  | 3824  | 6591  | 3604  |
| 65° | 4955  | 3380  | 5455  | 3135  |
| 70° | 3945  | 3001  | 4417  | 2775  |
| 75° | 3098  | 2770  | 3487  | 2549  |
| 80° | 2233  | 2673  | 2633  | 2442  |
| 85° | 1373  | 2688  | 1851  | 2471  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 9555 cd/sqm

TEST NUMBER: P1213769

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.5  | 3.7       |
| 10°-20°   | 382.8  | 10.7      |
| 20°-30°   | 567.4  | 15.9      |
| 30°-40°   | 630.4  | 17.7      |
| 40°-50°   | 571.4  | 16.0      |
| 50°-60°   | 442.8  | 12.4      |
| 60°-70°   | 300.7  | 8.4       |
| 70°-80°   | 191.3  | 5.4       |
| 80°-90°   | 122.3  | 3.4       |
| 90°-100°  | 82.5   | 2.3       |
| 100°-110° | 56.5   | 1.6       |
| 110°-120° | 37.7   | 1.1       |
| 120°-130° | 23.4   | 0.7       |
| 130°-140° | 13.0   | 0.4       |
| 140°-150° | 6.1    | 0.2       |
| 150°-160° | 2.2    | 0.1       |
| 160°-170° | 0.1    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1083.7 | 30.4      |
| 0°-40°    | 1714.1 | 48.1      |
| 0°-60°    | 2728.3 | 76.6      |
| 0°-90°    | 3342.5 | 93.8      |
| 90°-120°  | 176.6  | 5.0       |
| 90°-150°  | 219.1  | 6.1       |
| 90°-180°  | 221.0  | 6.2       |
| 0°-180°   | 3564.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1408 | 1408 | 1408 | 1408 | 1408 |      |
| 5°   | 1417 | 1403 | 1417 | 1397 | 1417 | 135  |
| 15°  | 1366 | 1369 | 1373 | 1333 | 1366 | 386  |
| 25°  | 1260 | 1236 | 1274 | 1164 | 1260 | 580  |
| 35°  | 1084 | 945  | 1105 | 880  | 1084 | 677  |
| 45°  | 835  | 676  | 862  | 637  | 835  | 641  |
| 55°  | 533  | 475  | 572  | 451  | 533  | 480  |
| 65°  | 276  | 319  | 304  | 296  | 276  | 277  |
| 75°  | 111  | 213  | 125  | 196  | 111  | 119  |
| 85°  | 20   | 153  | 27   | 141  | 20   | 24   |
| 90°  | 0    | 132  | 2    | 121  | 0    | 1    |
| 95°  | 1    | 113  | 0    | 105  | 1    | 1    |
| 105° | 1    | 83   | 0    | 78   | 1    | 1    |
| 115° | 1    | 63   | 0    | 58   | 1    | 1    |
| 125° | 1    | 46   | 1    | 41   | 1    | 1    |
| 135° | 1    | 32   | 1    | 26   | 1    | 1    |
| 145° | 1    | 21   | 1    | 15   | 1    | 1    |
| 155° | 1    | 12   | 1    | 5    | 1    | 0    |
| 165° | 0    | 0    | 0    | 0    | 0    | 0    |
| 175° | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0    | 0    | 0    | 0    | 0    | 0    |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 |
| 2.5°   | 1419.9 | 1418.4 | 1416.8 | 1414.5 | 1416.8 | 1423.0 | 1419.1 | 1410.6 | 1409.1 | 1395.1 | 1401.3 |
| 5°     | 1416.8 | 1414.5 | 1412.9 | 1410.6 | 1413.7 | 1421.5 | 1417.6 | 1409.8 | 1407.5 | 1394.3 | 1401.3 |
| 7.5°   | 1409.1 | 1407.5 | 1405.2 | 1405.2 | 1408.3 | 1416.0 | 1412.9 | 1404.4 | 1402.9 | 1389.7 | 1397.4 |
| 10°    | 1398.2 | 1397.4 | 1395.9 | 1395.9 | 1399.0 | 1408.3 | 1404.4 | 1396.7 | 1395.1 | 1382.7 | 1391.2 |
| 12.5°  | 1384.3 | 1385.0 | 1382.7 | 1382.7 | 1387.4 | 1396.7 | 1393.6 | 1385.0 | 1383.5 | 1372.7 | 1381.2 |
| 15°    | 1366.5 | 1367.2 | 1365.7 | 1366.5 | 1371.1 | 1381.9 | 1378.1 | 1370.3 | 1368.8 | 1360.3 | 1367.2 |
| 17.5°  | 1346.3 | 1347.1 | 1347.1 | 1346.3 | 1351.7 | 1362.6 | 1359.5 | 1352.5 | 1350.2 | 1343.2 | 1351.7 |
| 20°    | 1323.1 | 1323.1 | 1323.1 | 1323.1 | 1329.3 | 1340.1 | 1336.2 | 1330.8 | 1326.2 | 1320.8 | 1327.7 |
| 22.5°  | 1294.4 | 1293.6 | 1294.4 | 1296.7 | 1302.9 | 1311.5 | 1309.1 | 1302.9 | 1296.0 | 1292.9 | 1298.3 |
| 25°    | 1259.6 | 1261.9 | 1262.7 | 1265.0 | 1272.7 | 1279.7 | 1277.4 | 1271.2 | 1260.3 | 1258.0 | 1259.6 |
| 27.5°  | 1223.1 | 1224.7 | 1227.0 | 1226.2 | 1237.1 | 1244.1 | 1239.4 | 1234.0 | 1218.5 | 1216.2 | 1214.6 |
| 30°    | 1182.1 | 1184.4 | 1186.0 | 1185.2 | 1193.7 | 1201.5 | 1196.8 | 1189.8 | 1168.9 | 1167.4 | 1155.0 |
| 32.5°  | 1135.6 | 1137.9 | 1139.5 | 1139.5 | 1151.9 | 1155.0 | 1146.5 | 1136.4 | 1113.9 | 1108.5 | 1097.7 |
| 35°    | 1084.5 | 1086.8 | 1087.6 | 1087.6 | 1100.0 | 1099.2 | 1088.4 | 1074.4 | 1049.6 | 1042.7 | 1024.1 |
| 37.5°  | 1029.5 | 1031.0 | 1031.8 | 1036.5 | 1041.9 | 1037.2 | 1023.3 | 1005.5 | 986.9  | 967.5  | 947.4  |
| 40°    | 967.5  | 969.8  | 971.4  | 974.5  | 979.9  | 974.5  | 954.3  | 932.7  | 912.5  | 890.8  | 870.7  |
| 42.5°  | 904.0  | 911.0  | 909.4  | 908.6  | 911.7  | 897.0  | 881.5  | 856.7  | 836.6  | 814.1  | 794.0  |
| 45°    | 835.1  | 834.3  | 838.2  | 839.7  | 838.9  | 826.5  | 804.8  | 782.4  | 762.2  | 739.0  | 722.0  |
| 47.5°  | 762.2  | 761.5  | 764.6  | 766.1  | 761.5  | 748.3  | 731.3  | 705.7  | 688.7  | 668.5  | 655.3  |
| 50°    | 685.6  | 685.6  | 690.2  | 685.6  | 683.2  | 670.1  | 656.1  | 630.6  | 617.4  | 599.6  | 591.8  |
| 52.5°  | 608.9  | 615.8  | 611.2  | 609.6  | 607.3  | 594.1  | 583.3  | 562.4  | 551.5  | 543.8  | 534.5  |
| 55°    | 532.9  | 540.7  | 537.6  | 535.3  | 534.5  | 523.7  | 513.6  | 498.1  | 491.1  | 485.7  | 480.3  |
| 57.5°  | 468.7  | 467.9  | 466.3  | 464.0  | 464.8  | 456.3  | 446.2  | 437.7  | 434.6  | 432.2  | 433.8  |
| 60°    | 394.3  | 400.5  | 398.2  | 398.9  | 399.7  | 398.2  | 389.6  | 384.2  | 385.0  | 385.8  | 388.1  |
| 62.5°  | 333.1  | 338.5  | 342.4  | 339.3  | 340.8  | 343.2  | 338.5  | 337.0  | 340.1  | 343.2  | 346.3  |
| 65°    | 276.5  | 282.0  | 285.8  | 285.1  | 289.7  | 294.4  | 293.6  | 295.1  | 302.1  | 306.0  | 309.9  |
| 67.5°  | 225.4  | 230.8  | 236.3  | 237.0  | 244.0  | 251.0  | 254.1  | 259.5  | 267.2  | 272.7  | 277.3  |
| 70°    | 181.3  | 185.9  | 192.1  | 196.0  | 205.3  | 214.6  | 220.0  | 230.8  | 235.5  | 243.2  | 246.3  |
| 72.5°  | 141.8  | 145.6  | 154.2  | 163.4  | 171.2  | 182.8  | 193.7  | 203.0  | 209.9  | 218.4  | 222.3  |
| 75°    | 110.8  | 112.3  | 121.6  | 132.5  | 143.3  | 156.5  | 168.1  | 178.2  | 187.5  | 196.0  | 202.2  |
| 77.5°  | 81.3   | 83.7   | 92.2   | 106.9  | 119.3  | 133.2  | 146.4  | 157.3  | 167.3  | 175.8  | 184.4  |
| 80°    | 56.5   | 61.2   | 70.5   | 85.2   | 99.2   | 114.6  | 127.0  | 139.4  | 150.3  | 158.8  | 167.3  |
| 82.5°  | 36.4   | 40.3   | 53.4   | 68.2   | 82.9   | 98.4   | 111.5  | 123.9  | 135.6  | 144.9  | 152.6  |
| 85°    | 20.1   | 25.6   | 38.7   | 54.2   | 68.9   | 84.4   | 98.4   | 110.8  | 122.4  | 130.9  | 138.7  |
| 87.5°  | 7.7    | 15.5   | 27.9   | 42.6   | 57.3   | 72.0   | 86.8   | 98.4   | 110.0  | 119.3  | 126.3  |
| 90°    | 0.0    | 9.3    | 20.9   | 35.6   | 50.4   | 65.1   | 79.0   | 91.4   | 102.3  | 110.8  | 118.5  |
| 92.5°  | 0.8    | 6.2    | 16.3   | 28.7   | 42.6   | 56.5   | 69.7   | 82.1   | 93.0   | 101.5  | 108.4  |
| 95°    | 0.8    | 4.6    | 13.2   | 24.8   | 37.2   | 50.4   | 62.7   | 74.4   | 84.4   | 93.0   | 99.9   |
| 97.5°  | 0.8    | 3.1    | 10.8   | 21.7   | 32.5   | 45.7   | 57.3   | 68.2   | 77.5   | 86.0   | 91.4   |
| 100°   | 0.8    | 3.1    | 9.3    | 18.6   | 29.4   | 41.1   | 51.9   | 62.7   | 71.3   | 78.2   | 84.4   |
| 102.5° | 0.8    | 2.3    | 7.7    | 16.3   | 26.3   | 36.4   | 47.3   | 57.3   | 65.1   | 72.0   | 78.2   |
| 105°   | 0.8    | 2.3    | 7.0    | 13.9   | 23.2   | 33.3   | 42.6   | 51.9   | 60.4   | 66.6   | 72.0   |
| 107.5° | 0.8    | 1.5    | 6.2    | 11.6   | 20.1   | 30.2   | 39.5   | 47.3   | 55.0   | 61.2   | 66.6   |
| 110°   | 0.8    | 1.5    | 5.4    | 10.8   | 17.8   | 27.1   | 35.6   | 43.4   | 50.4   | 56.5   | 61.2   |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  |
|--------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 112.5° | 0.8 | 1.5 | 4.6 | 10.1 | 16.3 | 24.0 | 32.5 | 39.5 | 46.5 | 51.9 | 56.5 |
| 115°   | 0.8 | 1.5 | 4.6 | 9.3  | 14.7 | 20.9 | 28.7 | 36.4 | 41.8 | 48.0 | 51.9 |
| 117.5° | 0.8 | 1.5 | 3.9 | 7.7  | 13.9 | 19.4 | 26.3 | 32.5 | 38.7 | 44.2 | 48.0 |
| 120°   | 0.8 | 1.5 | 3.9 | 7.0  | 12.4 | 17.8 | 23.2 | 29.4 | 35.6 | 39.5 | 43.4 |
| 122.5° | 0.8 | 1.5 | 3.1 | 7.0  | 10.8 | 16.3 | 20.9 | 26.3 | 31.8 | 36.4 | 40.3 |
| 125°   | 0.8 | 1.5 | 3.1 | 6.2  | 10.1 | 14.7 | 19.4 | 23.2 | 28.7 | 32.5 | 36.4 |
| 127.5° | 0.8 | 1.5 | 3.1 | 5.4  | 9.3  | 13.2 | 17.8 | 21.7 | 25.6 | 29.4 | 32.5 |
| 130°   | 0.8 | 1.5 | 2.3 | 4.6  | 8.5  | 11.6 | 15.5 | 20.1 | 23.2 | 26.3 | 29.4 |
| 132.5° | 0.8 | 1.5 | 2.3 | 4.6  | 7.0  | 10.1 | 13.9 | 17.8 | 20.9 | 24.0 | 26.3 |
| 135°   | 0.8 | 1.5 | 2.3 | 3.9  | 6.2  | 9.3  | 11.6 | 15.5 | 18.6 | 21.7 | 24.0 |
| 137.5° | 0.8 | 1.5 | 2.3 | 3.9  | 5.4  | 7.7  | 10.1 | 13.2 | 16.3 | 18.6 | 21.7 |
| 140°   | 0.8 | 1.5 | 2.3 | 3.1  | 4.6  | 7.0  | 9.3  | 10.8 | 13.9 | 16.3 | 18.6 |
| 142.5° | 0.8 | 1.5 | 2.3 | 3.1  | 4.6  | 6.2  | 7.7  | 9.3  | 11.6 | 13.9 | 16.3 |
| 145°   | 0.8 | 1.5 | 2.3 | 3.1  | 3.9  | 5.4  | 7.0  | 8.5  | 9.3  | 11.6 | 13.2 |
| 147.5° | 0.8 | 1.5 | 2.3 | 3.1  | 3.1  | 4.6  | 6.2  | 7.0  | 8.5  | 9.3  | 10.8 |
| 150°   | 0.8 | 1.5 | 2.3 | 2.3  | 3.1  | 3.9  | 5.4  | 6.2  | 7.0  | 8.5  | 9.3  |
| 152.5° | 0.8 | 1.5 | 2.3 | 2.3  | 3.1  | 3.9  | 4.6  | 5.4  | 6.2  | 7.0  | 7.7  |
| 155°   | 0.8 | 1.5 | 2.3 | 2.3  | 2.3  | 3.1  | 3.9  | 4.6  | 5.4  | 6.2  | 7.0  |
| 157.5° | 1.5 | 1.5 | 1.5 | 2.3  | 2.3  | 3.1  | 3.1  | 3.9  | 4.6  | 4.6  | 5.4  |
| 160°   | 1.5 | 1.5 | 1.5 | 2.3  | 2.3  | 2.3  | 3.1  | 3.1  | 3.9  | 3.9  | 4.6  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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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CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 |
| 2.5°   | 1399.8 | 1402.1 | 1409.1 | 1409.1 | 1407.5 | 1406.0 | 1406.0 | 1403.6 | 1405.2 | 1408.3 | 1406.7 |
| 5°     | 1399.8 | 1402.1 | 1409.1 | 1409.1 | 1407.5 | 1406.0 | 1405.2 | 1402.9 | 1405.2 | 1408.3 | 1406.7 |
| 7.5°   | 1395.1 | 1398.2 | 1405.2 | 1405.2 | 1403.6 | 1402.9 | 1401.3 | 1399.8 | 1402.1 | 1405.2 | 1403.6 |
| 10°    | 1388.9 | 1392.0 | 1399.0 | 1399.0 | 1397.4 | 1397.4 | 1395.1 | 1393.6 | 1396.7 | 1399.0 | 1398.2 |
| 12.5°  | 1379.6 | 1383.5 | 1389.7 | 1388.9 | 1387.4 | 1388.1 | 1385.8 | 1382.7 | 1385.8 | 1388.1 | 1388.9 |
| 15°    | 1366.5 | 1371.1 | 1377.3 | 1375.8 | 1373.4 | 1375.0 | 1371.1 | 1368.8 | 1371.1 | 1375.8 | 1375.0 |
| 17.5°  | 1349.4 | 1352.5 | 1357.2 | 1357.2 | 1354.8 | 1353.3 | 1351.7 | 1349.4 | 1351.0 | 1354.1 | 1354.8 |
| 20°    | 1325.4 | 1329.3 | 1331.6 | 1329.3 | 1328.5 | 1326.2 | 1323.1 | 1320.8 | 1323.9 | 1328.5 | 1329.3 |
| 22.5°  | 1293.6 | 1294.4 | 1299.8 | 1294.4 | 1290.5 | 1289.8 | 1286.7 | 1282.0 | 1286.7 | 1290.5 | 1291.3 |
| 25°    | 1254.1 | 1258.0 | 1255.7 | 1246.4 | 1246.4 | 1240.2 | 1238.6 | 1236.3 | 1237.1 | 1244.1 | 1247.2 |
| 27.5°  | 1203.8 | 1205.3 | 1199.1 | 1191.4 | 1184.4 | 1180.5 | 1175.1 | 1175.9 | 1175.9 | 1185.2 | 1188.3 |
| 30°    | 1148.8 | 1140.3 | 1134.8 | 1122.4 | 1117.0 | 1107.7 | 1106.2 | 1106.2 | 1104.6 | 1109.3 | 1123.2 |
| 32.5°  | 1082.9 | 1071.3 | 1062.8 | 1051.2 | 1041.9 | 1032.6 | 1027.9 | 1030.3 | 1029.5 | 1041.1 | 1045.8 |
| 35°    | 1010.9 | 1003.9 | 986.1  | 971.4  | 966.0  | 952.0  | 952.0  | 945.1  | 949.7  | 962.9  | 968.3  |
| 37.5°  | 935.0  | 924.1  | 909.4  | 893.2  | 889.3  | 878.4  | 874.6  | 870.7  | 880.8  | 883.1  | 888.5  |
| 40°    | 857.5  | 847.5  | 833.5  | 818.0  | 818.0  | 804.8  | 804.8  | 804.8  | 805.6  | 810.3  | 820.3  |
| 42.5°  | 783.9  | 773.1  | 760.7  | 749.8  | 748.3  | 738.2  | 738.2  | 737.5  | 739.0  | 742.9  | 752.2  |
| 45°    | 712.7  | 704.1  | 691.0  | 685.6  | 686.3  | 675.5  | 677.8  | 675.5  | 678.6  | 682.5  | 685.6  |
| 47.5°  | 646.8  | 641.4  | 636.0  | 628.2  | 625.9  | 625.1  | 621.3  | 618.2  | 623.6  | 623.6  | 628.2  |
| 50°    | 585.6  | 582.5  | 579.4  | 574.8  | 575.6  | 572.5  | 567.8  | 567.8  | 571.7  | 572.5  | 575.6  |
| 52.5°  | 532.2  | 528.3  | 524.4  | 525.2  | 526.0  | 524.4  | 522.1  | 519.8  | 522.1  | 523.7  | 527.5  |
| 55°    | 478.7  | 475.6  | 479.5  | 477.9  | 479.5  | 477.9  | 476.4  | 474.9  | 478.7  | 476.4  | 480.3  |
| 57.5°  | 430.7  | 433.8  | 435.3  | 432.2  | 434.6  | 433.0  | 433.8  | 431.5  | 434.6  | 436.1  | 435.3  |
| 60°    | 386.5  | 391.2  | 388.9  | 389.6  | 392.7  | 391.2  | 388.1  | 390.4  | 393.5  | 394.3  | 393.5  |
| 62.5°  | 346.3  | 351.7  | 354.0  | 352.5  | 353.2  | 351.7  | 354.0  | 350.9  | 354.8  | 356.3  | 354.0  |
| 65°    | 309.9  | 316.1  | 317.6  | 317.6  | 317.6  | 316.1  | 318.4  | 319.1  | 320.7  | 320.7  | 319.1  |
| 67.5°  | 278.9  | 284.3  | 285.8  | 287.4  | 285.8  | 284.3  | 284.3  | 285.1  | 288.2  | 289.7  | 288.2  |
| 70°    | 251.0  | 256.4  | 257.2  | 257.2  | 258.0  | 259.5  | 256.4  | 258.0  | 260.3  | 261.1  | 260.3  |
| 72.5°  | 227.0  | 232.4  | 233.9  | 233.2  | 233.9  | 234.7  | 234.7  | 233.2  | 235.5  | 237.0  | 237.0  |
| 75°    | 207.6  | 210.7  | 212.2  | 212.2  | 213.0  | 213.8  | 213.8  | 213.0  | 214.6  | 215.3  | 216.1  |
| 77.5°  | 189.8  | 192.1  | 194.4  | 194.4  | 195.2  | 194.4  | 196.0  | 196.0  | 196.8  | 197.5  | 198.3  |
| 80°    | 172.0  | 175.1  | 176.6  | 177.4  | 178.9  | 179.7  | 179.7  | 179.7  | 180.5  | 181.3  | 181.3  |
| 82.5°  | 158.0  | 160.3  | 162.7  | 165.0  | 165.0  | 165.8  | 165.8  | 165.8  | 166.5  | 166.5  | 167.3  |
| 85°    | 144.1  | 147.2  | 149.5  | 151.1  | 151.8  | 152.6  | 152.6  | 153.4  | 153.4  | 153.4  | 154.2  |
| 87.5°  | 131.7  | 135.6  | 137.1  | 138.7  | 139.4  | 141.0  | 141.0  | 141.0  | 141.8  | 141.8  | 141.8  |
| 90°    | 123.2  | 127.0  | 128.6  | 130.1  | 130.9  | 131.7  | 131.7  | 132.5  | 132.5  | 133.2  | 133.2  |
| 92.5°  | 113.1  | 117.0  | 120.1  | 120.1  | 120.8  | 122.4  | 121.6  | 121.6  | 122.4  | 123.2  | 123.2  |
| 95°    | 105.4  | 108.4  | 110.8  | 111.5  | 112.3  | 112.3  | 112.3  | 113.1  | 112.3  | 113.1  | 113.1  |
| 97.5°  | 96.1   | 99.2   | 101.5  | 103.0  | 103.8  | 103.8  | 103.8  | 104.6  | 103.8  | 104.6  | 104.6  |
| 100°   | 88.3   | 91.4   | 93.7   | 94.5   | 96.1   | 96.1   | 96.1   | 96.1   | 96.1   | 96.1   | 96.8   |
| 102.5° | 82.1   | 85.2   | 86.8   | 87.5   | 88.3   | 89.1   | 89.1   | 89.1   | 89.1   | 89.9   | 89.9   |
| 105°   | 75.9   | 79.0   | 80.6   | 81.3   | 82.1   | 82.9   | 82.9   | 82.9   | 83.7   | 83.7   | 82.9   |
| 107.5° | 70.5   | 72.8   | 74.4   | 75.9   | 76.7   | 76.7   | 77.5   | 77.5   | 77.5   | 77.5   | 77.5   |
| 110°   | 65.1   | 67.4   | 69.7   | 71.3   | 71.3   | 72.0   | 72.0   | 72.8   | 72.8   | 72.0   | 72.8   |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85°  | 90°  | 95°  | 100° | 105° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 59.6 | 62.7 | 64.3 | 65.8 | 66.6 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 |
| 115°   | 55.0 | 58.1 | 59.6 | 61.2 | 62.0 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 |
| 117.5° | 51.1 | 54.2 | 55.8 | 56.5 | 57.3 | 58.1 | 58.9 | 58.9 | 58.9 | 58.9 | 58.1 |
| 120°   | 47.3 | 49.6 | 51.1 | 52.7 | 53.4 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 |
| 122.5° | 43.4 | 45.7 | 47.3 | 48.8 | 49.6 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 |
| 125°   | 39.5 | 41.8 | 43.4 | 44.9 | 45.7 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 |
| 127.5° | 35.6 | 38.0 | 40.3 | 41.1 | 41.8 | 42.6 | 42.6 | 42.6 | 43.4 | 42.6 | 42.6 |
| 130°   | 31.8 | 34.1 | 36.4 | 37.2 | 38.0 | 38.7 | 39.5 | 39.5 | 39.5 | 39.5 | 38.7 |
| 132.5° | 28.7 | 31.0 | 32.5 | 33.3 | 34.9 | 34.9 | 35.6 | 35.6 | 35.6 | 35.6 | 34.9 |
| 135°   | 26.3 | 27.9 | 29.4 | 30.2 | 31.8 | 31.8 | 31.8 | 32.5 | 32.5 | 31.8 | 31.0 |
| 137.5° | 23.2 | 24.8 | 26.3 | 27.1 | 27.9 | 28.7 | 28.7 | 29.4 | 28.7 | 28.7 | 28.7 |
| 140°   | 21.7 | 22.5 | 24.0 | 24.8 | 25.6 | 25.6 | 25.6 | 26.3 | 26.3 | 25.6 | 25.6 |
| 142.5° | 18.6 | 20.1 | 21.7 | 22.5 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 |
| 145°   | 15.5 | 17.8 | 18.6 | 20.1 | 20.1 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.1 |
| 147.5° | 13.2 | 14.7 | 17.0 | 17.8 | 17.8 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 17.8 |
| 150°   | 10.1 | 11.6 | 13.9 | 15.5 | 15.5 | 16.3 | 16.3 | 16.3 | 16.3 | 15.5 | 15.5 |
| 152.5° | 8.5  | 10.1 | 10.8 | 12.4 | 13.2 | 13.2 | 13.2 | 13.9 | 13.2 | 13.2 | 13.2 |
| 155°   | 7.7  | 8.5  | 9.3  | 10.1 | 10.8 | 11.6 | 11.6 | 11.6 | 11.6 | 10.8 | 10.8 |
| 157.5° | 6.2  | 7.0  | 7.7  | 8.5  | 9.3  | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 | 9.3  |
| 160°   | 4.6  | 5.4  | 6.2  | 6.2  | 7.0  | 7.7  | 8.5  | 7.7  | 7.7  | 7.7  | 7.7  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 |
| 2.5°   | 1405.2 | 1404.4 | 1406.7 | 1402.9 | 1391.2 | 1394.3 | 1392.8 | 1399.8 | 1401.3 | 1402.9 | 1409.8 |
| 5°     | 1405.2 | 1404.4 | 1406.0 | 1402.9 | 1390.5 | 1392.8 | 1391.2 | 1398.2 | 1399.8 | 1400.5 | 1407.5 |
| 7.5°   | 1402.1 | 1401.3 | 1403.6 | 1399.8 | 1386.6 | 1389.7 | 1387.4 | 1394.3 | 1395.1 | 1395.9 | 1402.1 |
| 10°    | 1395.9 | 1395.1 | 1396.7 | 1393.6 | 1380.4 | 1383.5 | 1380.4 | 1387.4 | 1387.4 | 1388.9 | 1393.6 |
| 12.5°  | 1386.6 | 1385.0 | 1388.1 | 1384.3 | 1369.6 | 1373.4 | 1371.9 | 1376.5 | 1377.3 | 1378.1 | 1382.7 |
| 15°    | 1373.4 | 1371.9 | 1374.2 | 1371.9 | 1358.7 | 1359.5 | 1357.2 | 1364.1 | 1364.9 | 1363.4 | 1368.0 |
| 17.5°  | 1354.1 | 1352.5 | 1357.2 | 1355.6 | 1342.4 | 1345.5 | 1344.8 | 1346.3 | 1348.6 | 1344.8 | 1351.0 |
| 20°    | 1330.0 | 1331.6 | 1333.1 | 1333.9 | 1323.9 | 1323.9 | 1323.1 | 1326.2 | 1328.5 | 1325.4 | 1330.0 |
| 22.5°  | 1294.4 | 1298.3 | 1302.9 | 1304.5 | 1297.5 | 1296.7 | 1301.4 | 1299.8 | 1302.2 | 1300.6 | 1303.7 |
| 25°    | 1249.5 | 1257.2 | 1261.9 | 1266.5 | 1262.7 | 1264.2 | 1271.2 | 1272.7 | 1272.7 | 1271.9 | 1275.0 |
| 27.5°  | 1193.7 | 1203.8 | 1212.3 | 1222.4 | 1218.5 | 1221.6 | 1233.2 | 1234.8 | 1237.9 | 1234.8 | 1241.0 |
| 30°    | 1127.1 | 1136.4 | 1152.7 | 1167.4 | 1168.9 | 1173.6 | 1189.8 | 1191.4 | 1199.9 | 1196.8 | 1199.1 |
| 32.5°  | 1060.5 | 1065.1 | 1083.7 | 1098.4 | 1107.7 | 1119.3 | 1137.2 | 1140.3 | 1151.9 | 1154.2 | 1154.2 |
| 35°    | 976.8  | 990.0  | 1007.0 | 1027.9 | 1039.6 | 1052.0 | 1076.0 | 1080.6 | 1097.7 | 1103.1 | 1109.3 |
| 37.5°  | 906.3  | 918.7  | 929.6  | 951.3  | 972.2  | 986.1  | 1005.5 | 1017.1 | 1034.9 | 1045.0 | 1052.7 |
| 40°    | 831.2  | 841.3  | 852.9  | 874.6  | 892.4  | 913.3  | 932.7  | 946.6  | 969.1  | 980.7  | 990.8  |
| 42.5°  | 759.9  | 767.7  | 780.1  | 795.5  | 814.1  | 837.4  | 856.0  | 872.2  | 896.3  | 912.5  | 924.1  |
| 45°    | 696.4  | 701.0  | 711.9  | 723.5  | 739.8  | 763.8  | 781.6  | 802.5  | 821.9  | 838.9  | 852.9  |
| 47.5°  | 636.7  | 642.9  | 648.4  | 656.1  | 670.8  | 685.6  | 706.5  | 726.6  | 746.0  | 764.6  | 778.5  |
| 50°    | 581.8  | 581.8  | 590.3  | 595.7  | 605.8  | 618.9  | 635.2  | 649.1  | 673.2  | 686.3  | 704.1  |
| 52.5°  | 528.3  | 531.4  | 536.0  | 539.1  | 546.9  | 555.4  | 568.6  | 580.2  | 600.3  | 612.7  | 629.8  |
| 55°    | 481.0  | 484.1  | 486.5  | 488.0  | 492.7  | 502.7  | 507.4  | 516.7  | 530.6  | 540.7  | 555.4  |
| 57.5°  | 436.1  | 437.7  | 440.0  | 440.8  | 441.5  | 447.7  | 451.6  | 453.9  | 467.9  | 477.9  | 490.3  |
| 60°    | 395.1  | 395.1  | 397.4  | 396.6  | 395.8  | 398.9  | 398.2  | 400.5  | 409.0  | 415.2  | 420.6  |
| 62.5°  | 356.3  | 356.3  | 357.1  | 355.6  | 354.8  | 354.8  | 351.7  | 354.0  | 356.3  | 357.1  | 361.0  |
| 65°    | 320.7  | 324.6  | 321.5  | 322.2  | 317.6  | 316.1  | 314.5  | 309.9  | 309.1  | 306.0  | 307.5  |
| 67.5°  | 288.9  | 292.0  | 288.9  | 288.9  | 285.1  | 282.0  | 278.1  | 270.3  | 268.0  | 261.8  | 260.3  |
| 70°    | 263.4  | 261.1  | 262.6  | 260.3  | 255.6  | 251.8  | 246.3  | 240.1  | 232.4  | 224.6  | 219.2  |
| 72.5°  | 238.6  | 238.6  | 237.0  | 234.7  | 232.4  | 224.6  | 218.4  | 211.5  | 202.2  | 192.1  | 184.4  |
| 75°    | 214.6  | 215.3  | 215.3  | 213.0  | 209.2  | 202.2  | 195.2  | 185.1  | 175.1  | 163.4  | 153.4  |
| 77.5°  | 197.5  | 197.5  | 197.5  | 193.7  | 189.8  | 183.6  | 175.1  | 164.2  | 153.4  | 139.4  | 127.8  |
| 80°    | 181.3  | 180.5  | 180.5  | 175.8  | 172.0  | 165.0  | 156.5  | 145.6  | 134.0  | 119.3  | 106.1  |
| 82.5°  | 168.1  | 167.3  | 165.8  | 161.9  | 156.5  | 149.5  | 141.0  | 129.4  | 117.0  | 103.8  | 87.5   |
| 85°    | 154.2  | 153.4  | 151.8  | 148.0  | 142.5  | 136.3  | 127.0  | 115.4  | 103.0  | 88.3   | 72.8   |
| 87.5°  | 141.8  | 141.0  | 138.7  | 136.3  | 130.1  | 123.2  | 113.9  | 103.0  | 89.9   | 75.9   | 60.4   |
| 90°    | 133.2  | 131.7  | 130.1  | 127.0  | 121.6  | 113.9  | 104.6  | 93.0   | 79.8   | 65.8   | 50.4   |
| 92.5°  | 123.2  | 122.4  | 120.1  | 117.0  | 112.3  | 104.6  | 95.3   | 84.4   | 71.3   | 58.1   | 43.4   |
| 95°    | 113.1  | 112.3  | 110.8  | 107.7  | 103.0  | 96.1   | 87.5   | 76.7   | 64.3   | 51.1   | 38.0   |
| 97.5°  | 103.8  | 103.8  | 101.5  | 99.2   | 93.7   | 88.3   | 79.8   | 69.7   | 58.1   | 46.5   | 34.1   |
| 100°   | 96.1   | 96.1   | 93.7   | 90.6   | 86.8   | 81.3   | 72.8   | 63.5   | 52.7   | 41.8   | 29.4   |
| 102.5° | 89.1   | 88.3   | 86.8   | 83.7   | 79.8   | 74.4   | 66.6   | 58.1   | 48.0   | 37.2   | 26.3   |
| 105°   | 82.9   | 82.1   | 80.6   | 77.5   | 74.4   | 68.2   | 62.0   | 53.4   | 43.4   | 33.3   | 23.2   |
| 107.5° | 76.7   | 75.9   | 75.1   | 72.0   | 68.2   | 62.7   | 56.5   | 48.0   | 39.5   | 30.2   | 20.9   |
| 110°   | 71.3   | 70.5   | 68.9   | 65.8   | 62.0   | 57.3   | 51.1   | 44.2   | 35.6   | 27.1   | 18.6   |



TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 66.6 | 65.8 | 64.3 | 61.2 | 58.1 | 52.7 | 47.3 | 39.5 | 32.5 | 24.8 | 16.3 |
| 115°   | 62.0 | 61.2 | 59.6 | 56.5 | 52.7 | 48.0 | 42.6 | 36.4 | 28.7 | 21.7 | 14.7 |
| 117.5° | 57.3 | 56.5 | 55.0 | 52.7 | 48.8 | 44.2 | 38.7 | 32.5 | 25.6 | 20.1 | 13.2 |
| 120°   | 53.4 | 51.9 | 50.4 | 48.0 | 44.2 | 40.3 | 34.9 | 29.4 | 23.2 | 17.8 | 11.6 |
| 122.5° | 49.6 | 48.0 | 46.5 | 44.2 | 40.3 | 36.4 | 31.0 | 26.3 | 21.7 | 16.3 | 10.8 |
| 125°   | 44.9 | 44.2 | 42.6 | 40.3 | 36.4 | 32.5 | 28.7 | 24.0 | 19.4 | 14.7 | 9.3  |
| 127.5° | 41.1 | 40.3 | 38.7 | 35.6 | 32.5 | 29.4 | 25.6 | 21.7 | 17.0 | 12.4 | 8.5  |
| 130°   | 38.0 | 36.4 | 34.9 | 32.5 | 30.2 | 27.1 | 23.2 | 19.4 | 15.5 | 10.8 | 7.7  |
| 132.5° | 34.1 | 32.5 | 31.0 | 29.4 | 27.1 | 24.0 | 20.9 | 17.0 | 13.9 | 10.1 | 7.0  |
| 135°   | 31.0 | 29.4 | 27.9 | 26.3 | 24.0 | 21.7 | 18.6 | 15.5 | 12.4 | 9.3  | 6.2  |
| 137.5° | 27.1 | 26.3 | 25.6 | 24.0 | 21.7 | 19.4 | 17.0 | 13.2 | 10.8 | 8.5  | 5.4  |
| 140°   | 24.8 | 24.0 | 23.2 | 20.9 | 19.4 | 17.0 | 14.7 | 11.6 | 9.3  | 7.0  | 4.6  |
| 142.5° | 22.5 | 21.7 | 20.1 | 18.6 | 17.0 | 15.5 | 12.4 | 10.8 | 8.5  | 6.2  | 4.6  |
| 145°   | 19.4 | 18.6 | 17.8 | 16.3 | 14.7 | 12.4 | 10.8 | 9.3  | 7.7  | 5.4  | 3.9  |
| 147.5° | 17.8 | 17.0 | 15.5 | 13.9 | 12.4 | 10.8 | 10.1 | 8.5  | 6.2  | 4.6  | 3.1  |
| 150°   | 14.7 | 13.9 | 13.2 | 11.6 | 10.8 | 10.1 | 8.5  | 7.0  | 5.4  | 3.9  | 3.1  |
| 152.5° | 12.4 | 11.6 | 10.8 | 10.8 | 9.3  | 8.5  | 7.0  | 6.2  | 4.6  | 3.9  | 2.3  |
| 155°   | 10.8 | 10.8 | 10.1 | 9.3  | 7.7  | 7.0  | 6.2  | 4.6  | 3.9  | 3.1  | 2.3  |
| 157.5° | 9.3  | 8.5  | 7.7  | 7.7  | 7.0  | 6.2  | 4.6  | 3.9  | 3.1  | 3.1  | 2.3  |
| 160°   | 7.7  | 7.0  | 7.0  | 6.2  | 5.4  | 4.6  | 3.9  | 3.9  | 3.1  | 2.3  | 2.3  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 |
| 2.5°   | 1410.6 | 1402.1 | 1409.8 | 1419.9 | 1419.9 | 1418.4 | 1416.8 | 1419.9 | 1427.7 | 1424.6 | 1415.3 |
| 5°     | 1408.3 | 1399.8 | 1406.7 | 1416.8 | 1416.8 | 1414.5 | 1412.9 | 1415.3 | 1423.8 | 1419.9 | 1411.4 |
| 7.5°   | 1403.6 | 1395.9 | 1400.5 | 1409.8 | 1409.8 | 1407.5 | 1406.0 | 1409.1 | 1416.0 | 1412.2 | 1402.9 |
| 10°    | 1395.1 | 1386.6 | 1392.0 | 1400.5 | 1399.8 | 1398.2 | 1395.9 | 1399.8 | 1406.0 | 1400.5 | 1389.7 |
| 12.5°  | 1384.3 | 1375.8 | 1380.4 | 1388.1 | 1387.4 | 1384.3 | 1382.7 | 1385.0 | 1390.5 | 1387.4 | 1375.8 |
| 15°    | 1369.6 | 1361.0 | 1364.9 | 1372.7 | 1370.3 | 1368.0 | 1364.9 | 1365.7 | 1372.7 | 1367.2 | 1354.8 |
| 17.5°  | 1351.7 | 1342.4 | 1345.5 | 1352.5 | 1350.2 | 1347.9 | 1344.0 | 1344.8 | 1352.5 | 1344.8 | 1331.6 |
| 20°    | 1330.0 | 1320.0 | 1322.3 | 1330.8 | 1326.9 | 1323.1 | 1319.2 | 1319.2 | 1326.9 | 1318.4 | 1303.7 |
| 22.5°  | 1306.8 | 1296.7 | 1298.3 | 1304.5 | 1301.4 | 1294.4 | 1290.5 | 1292.9 | 1296.7 | 1285.9 | 1270.4 |
| 25°    | 1278.1 | 1265.0 | 1267.3 | 1273.5 | 1271.2 | 1261.9 | 1258.0 | 1259.6 | 1258.0 | 1249.5 | 1233.2 |
| 27.5°  | 1244.8 | 1230.9 | 1232.4 | 1236.3 | 1233.2 | 1224.7 | 1220.0 | 1220.8 | 1217.7 | 1206.9 | 1188.3 |
| 30°    | 1203.0 | 1196.0 | 1195.3 | 1197.6 | 1192.9 | 1184.4 | 1179.0 | 1177.4 | 1176.7 | 1161.2 | 1138.7 |
| 32.5°  | 1160.4 | 1154.2 | 1150.3 | 1153.4 | 1148.0 | 1139.5 | 1130.2 | 1130.2 | 1122.4 | 1107.7 | 1088.4 |
| 35°    | 1117.0 | 1107.0 | 1103.1 | 1105.4 | 1099.2 | 1088.4 | 1080.6 | 1076.7 | 1065.1 | 1046.5 | 1025.6 |
| 37.5°  | 1061.2 | 1054.3 | 1049.6 | 1052.0 | 1045.0 | 1037.2 | 1022.5 | 1018.6 | 1006.3 | 980.7  | 954.3  |
| 40°    | 1000.8 | 995.4  | 990.8  | 993.1  | 985.3  | 973.7  | 960.5  | 954.3  | 940.4  | 911.7  | 890.8  |
| 42.5°  | 935.8  | 933.4  | 928.0  | 936.5  | 921.0  | 909.4  | 896.3  | 886.2  | 872.2  | 841.3  | 817.2  |
| 45°    | 866.8  | 872.2  | 859.8  | 862.2  | 852.1  | 842.0  | 828.1  | 813.4  | 799.4  | 770.0  | 742.9  |
| 47.5°  | 794.0  | 797.9  | 789.4  | 790.9  | 780.1  | 770.8  | 758.4  | 739.8  | 724.3  | 698.7  | 674.7  |
| 50°    | 718.9  | 717.3  | 717.3  | 715.8  | 707.2  | 695.6  | 683.2  | 666.2  | 650.7  | 627.5  | 607.3  |
| 52.5°  | 639.1  | 642.2  | 643.7  | 647.6  | 636.7  | 629.8  | 610.4  | 595.7  | 584.1  | 560.1  | 543.0  |
| 55°    | 562.4  | 573.2  | 570.1  | 571.7  | 559.3  | 553.9  | 538.4  | 526.8  | 509.7  | 495.8  | 484.9  |
| 57.5°  | 492.7  | 495.0  | 496.5  | 498.9  | 493.4  | 482.6  | 470.2  | 460.9  | 447.7  | 436.1  | 428.4  |
| 60°    | 425.3  | 425.3  | 426.0  | 429.9  | 424.5  | 415.2  | 405.9  | 398.9  | 389.6  | 382.7  | 378.0  |
| 62.5°  | 361.8  | 367.2  | 368.0  | 364.9  | 357.9  | 353.2  | 347.0  | 343.2  | 337.0  | 334.6  | 333.1  |
| 65°    | 302.9  | 302.9  | 302.9  | 304.4  | 300.6  | 297.5  | 293.6  | 292.8  | 295.1  | 292.0  | 293.6  |
| 67.5°  | 253.3  | 251.0  | 249.4  | 250.2  | 248.7  | 247.1  | 246.3  | 248.7  | 253.3  | 253.3  | 257.2  |
| 70°    | 210.7  | 206.1  | 203.0  | 203.0  | 203.0  | 203.7  | 206.1  | 210.7  | 218.4  | 221.5  | 227.0  |
| 72.5°  | 175.8  | 165.8  | 161.1  | 161.1  | 161.9  | 165.0  | 172.0  | 180.5  | 187.5  | 193.7  | 200.6  |
| 75°    | 142.5  | 132.5  | 125.5  | 124.7  | 126.3  | 130.9  | 141.0  | 148.7  | 160.3  | 168.9  | 177.4  |
| 77.5°  | 115.4  | 103.0  | 94.5   | 93.7   | 96.1   | 103.0  | 115.4  | 125.5  | 138.7  | 148.0  | 157.3  |
| 80°    | 92.2   | 78.2   | 71.3   | 66.6   | 70.5   | 79.0   | 93.0   | 105.4  | 117.7  | 130.1  | 141.8  |
| 82.5°  | 73.6   | 60.4   | 49.6   | 44.9   | 49.6   | 61.2   | 74.4   | 89.1   | 101.5  | 114.6  | 126.3  |
| 85°    | 58.1   | 44.2   | 31.8   | 27.1   | 32.5   | 44.9   | 59.6   | 74.4   | 88.3   | 101.5  | 113.1  |
| 87.5°  | 45.7   | 31.8   | 19.4   | 13.2   | 20.1   | 33.3   | 47.3   | 62.0   | 76.7   | 89.9   | 101.5  |
| 90°    | 35.6   | 22.5   | 10.8   | 1.5    | 11.6   | 24.0   | 38.0   | 51.9   | 66.6   | 79.8   | 91.4   |
| 92.5°  | 30.2   | 17.0   | 6.2    | 0.0    | 7.0    | 17.8   | 31.0   | 44.9   | 58.1   | 71.3   | 82.9   |
| 95°    | 25.6   | 13.9   | 4.6    | 0.0    | 4.6    | 13.9   | 25.6   | 38.0   | 51.1   | 64.3   | 75.9   |
| 97.5°  | 21.7   | 10.8   | 3.1    | 0.0    | 3.1    | 10.8   | 20.9   | 33.3   | 44.9   | 57.3   | 68.2   |
| 100°   | 18.6   | 9.3    | 2.3    | 0.0    | 2.3    | 8.5    | 17.8   | 28.7   | 40.3   | 51.9   | 62.0   |
| 102.5° | 16.3   | 7.7    | 1.5    | 0.0    | 1.5    | 7.0    | 14.7   | 24.8   | 34.9   | 45.7   | 55.8   |
| 105°   | 13.9   | 6.2    | 1.5    | 0.0    | 0.8    | 5.4    | 12.4   | 21.7   | 31.0   | 41.1   | 50.4   |
| 107.5° | 12.4   | 5.4    | 1.5    | 0.0    | 0.8    | 4.6    | 10.8   | 18.6   | 27.9   | 36.4   | 44.9   |
| 110°   | 10.8   | 4.6    | 1.5    | 0.0    | 0.8    | 3.1    | 9.3    | 16.3   | 24.0   | 32.5   | 41.1   |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 9.3  | 3.9  | 0.8  | 0.0  | 0.0  | 2.3  | 7.7  | 13.9 | 20.9 | 29.4 | 36.4 |
| 115°   | 8.5  | 3.9  | 0.8  | 0.0  | 0.0  | 1.5  | 6.2  | 12.4 | 18.6 | 26.3 | 32.5 |
| 117.5° | 7.7  | 3.1  | 0.8  | 0.0  | 0.8  | 1.5  | 5.4  | 10.8 | 16.3 | 22.5 | 29.4 |
| 120°   | 7.0  | 3.1  | 0.8  | 0.0  | 0.8  | 0.8  | 3.9  | 9.3  | 13.9 | 20.1 | 25.6 |
| 122.5° | 6.2  | 3.1  | 0.8  | 0.0  | 0.8  | 0.8  | 3.1  | 7.7  | 12.4 | 17.8 | 22.5 |
| 125°   | 5.4  | 2.3  | 1.5  | 0.8  | 0.8  | 0.8  | 2.3  | 6.2  | 10.8 | 14.7 | 20.1 |
| 127.5° | 5.4  | 2.3  | 1.5  | 0.8  | 0.8  | 0.8  | 1.5  | 5.4  | 8.5  | 13.2 | 17.8 |
| 130°   | 4.6  | 2.3  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 3.9  | 7.7  | 10.8 | 14.7 |
| 132.5° | 3.9  | 2.3  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 2.3  | 5.4  | 9.3  | 12.4 |
| 135°   | 3.9  | 2.3  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 1.5  | 3.9  | 7.0  | 10.1 |
| 137.5° | 3.1  | 1.5  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 3.1  | 5.4  | 7.7  |
| 140°   | 3.1  | 1.5  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 2.3  | 3.9  | 6.2  |
| 142.5° | 2.3  | 1.5  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.5  | 3.1  | 4.6  |
| 145°   | 2.3  | 1.5  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.5  | 3.1  |
| 147.5° | 2.3  | 2.3  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.5  | 2.3  |
| 150°   | 2.3  | 1.5  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.5  |
| 152.5° | 2.3  | 1.5  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.5  |
| 155°   | 2.3  | 1.5  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.5  | 1.5  |
| 157.5° | 2.3  | 1.5  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.5  |
| 160°   | 2.3  | 1.5  | 1.5  | 0.8  | 1.5  | 0.8  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 |
| 2.5°   | 1412.2 | 1397.4 | 1405.2 | 1402.9 | 1406.0 | 1412.2 | 1411.4 | 1409.8 | 1409.8 | 1407.5 | 1404.4 |
| 5°     | 1407.5 | 1393.6 | 1400.5 | 1396.7 | 1400.5 | 1406.0 | 1405.2 | 1402.9 | 1404.4 | 1400.5 | 1396.7 |
| 7.5°   | 1398.2 | 1385.8 | 1392.0 | 1388.9 | 1392.0 | 1397.4 | 1395.1 | 1394.3 | 1395.9 | 1389.7 | 1387.4 |
| 10°    | 1387.4 | 1373.4 | 1380.4 | 1376.5 | 1380.4 | 1384.3 | 1382.7 | 1379.6 | 1382.7 | 1376.5 | 1374.2 |
| 12.5°  | 1370.3 | 1358.7 | 1363.4 | 1361.8 | 1364.1 | 1368.0 | 1364.9 | 1362.6 | 1364.1 | 1358.7 | 1354.1 |
| 15°    | 1351.7 | 1340.1 | 1344.0 | 1341.7 | 1343.2 | 1347.9 | 1342.4 | 1341.7 | 1340.1 | 1334.7 | 1333.1 |
| 17.5°  | 1327.7 | 1316.9 | 1320.8 | 1316.9 | 1319.2 | 1317.7 | 1316.9 | 1313.0 | 1313.0 | 1306.8 | 1302.2 |
| 20°    | 1298.3 | 1289.0 | 1286.7 | 1283.6 | 1286.7 | 1283.6 | 1278.9 | 1275.8 | 1275.0 | 1268.9 | 1265.0 |
| 22.5°  | 1264.2 | 1253.4 | 1254.9 | 1246.4 | 1247.2 | 1242.5 | 1234.8 | 1231.7 | 1228.6 | 1221.6 | 1216.2 |
| 25°    | 1223.1 | 1212.3 | 1204.6 | 1199.1 | 1192.2 | 1191.4 | 1181.3 | 1173.6 | 1172.8 | 1164.3 | 1163.5 |
| 27.5°  | 1176.7 | 1164.3 | 1158.1 | 1144.9 | 1136.4 | 1129.4 | 1120.9 | 1113.1 | 1109.3 | 1100.0 | 1093.8 |
| 30°    | 1123.2 | 1109.3 | 1093.8 | 1084.5 | 1071.3 | 1065.9 | 1051.2 | 1041.9 | 1038.8 | 1028.7 | 1024.1 |
| 32.5°  | 1062.8 | 1048.1 | 1035.7 | 1017.9 | 1003.2 | 995.4  | 980.7  | 971.4  | 967.5  | 956.7  | 950.5  |
| 35°    | 997.0  | 980.7  | 966.0  | 948.9  | 937.3  | 924.1  | 906.3  | 897.0  | 888.5  | 884.6  | 880.0  |
| 37.5°  | 928.0  | 910.2  | 893.2  | 876.1  | 866.0  | 850.5  | 835.1  | 828.9  | 818.8  | 814.9  | 810.3  |
| 40°    | 856.7  | 838.9  | 822.7  | 806.4  | 794.8  | 780.8  | 766.9  | 764.6  | 753.7  | 749.8  | 746.7  |
| 42.5°  | 786.3  | 767.7  | 749.1  | 737.5  | 728.9  | 715.0  | 705.7  | 703.4  | 694.1  | 691.7  | 691.7  |
| 45°    | 722.7  | 699.5  | 684.0  | 673.9  | 667.0  | 655.3  | 647.6  | 646.0  | 638.3  | 636.7  | 636.7  |
| 47.5°  | 654.6  | 632.9  | 621.3  | 615.1  | 608.9  | 600.3  | 595.7  | 595.7  | 587.9  | 586.4  | 585.6  |
| 50°    | 591.0  | 570.9  | 562.4  | 556.2  | 555.4  | 549.2  | 545.3  | 543.8  | 543.8  | 538.4  | 539.1  |
| 52.5°  | 530.6  | 520.6  | 513.6  | 509.7  | 505.1  | 501.2  | 498.1  | 498.1  | 495.8  | 491.9  | 493.4  |
| 55°    | 474.9  | 463.2  | 464.0  | 460.9  | 458.6  | 456.3  | 457.0  | 452.4  | 451.6  | 448.5  | 450.8  |
| 57.5°  | 419.1  | 419.1  | 417.5  | 415.2  | 411.3  | 412.9  | 412.9  | 412.9  | 409.0  | 406.7  | 409.0  |
| 60°    | 371.8  | 374.1  | 370.3  | 372.6  | 371.0  | 371.8  | 370.3  | 370.3  | 368.0  | 367.2  | 368.0  |
| 62.5°  | 330.0  | 333.9  | 332.3  | 335.4  | 333.9  | 334.6  | 336.2  | 333.1  | 331.5  | 330.0  | 331.5  |
| 65°    | 292.8  | 297.5  | 296.7  | 299.0  | 299.8  | 300.6  | 301.3  | 299.8  | 298.2  | 296.7  | 295.9  |
| 67.5°  | 260.3  | 264.9  | 268.0  | 268.8  | 269.6  | 271.9  | 271.1  | 269.6  | 268.0  | 265.7  | 264.9  |
| 70°    | 230.8  | 237.0  | 240.9  | 242.5  | 245.6  | 244.0  | 244.0  | 243.2  | 241.7  | 239.4  | 238.6  |
| 72.5°  | 206.1  | 213.0  | 216.9  | 218.4  | 221.5  | 221.5  | 220.8  | 220.0  | 218.4  | 216.1  | 215.3  |
| 75°    | 184.4  | 190.6  | 196.0  | 199.1  | 201.4  | 201.4  | 200.6  | 199.9  | 198.3  | 196.8  | 196.0  |
| 77.5°  | 167.3  | 172.7  | 177.4  | 181.3  | 182.8  | 183.6  | 182.8  | 181.3  | 181.3  | 180.5  | 179.7  |
| 80°    | 150.3  | 156.5  | 161.1  | 165.0  | 167.3  | 167.3  | 166.5  | 167.3  | 165.8  | 165.0  | 164.2  |
| 82.5°  | 135.6  | 142.5  | 148.0  | 151.8  | 153.4  | 154.2  | 153.4  | 154.2  | 152.6  | 152.6  | 152.6  |
| 85°    | 122.4  | 129.4  | 135.6  | 138.7  | 141.0  | 141.8  | 141.8  | 141.8  | 141.0  | 141.0  | 141.0  |
| 87.5°  | 111.5  | 118.5  | 124.7  | 127.8  | 130.1  | 130.9  | 130.9  | 131.7  | 130.1  | 130.1  | 130.1  |
| 90°    | 101.5  | 108.4  | 114.6  | 117.7  | 120.1  | 121.6  | 121.6  | 122.4  | 121.6  | 120.8  | 120.8  |
| 92.5°  | 92.2   | 99.9   | 106.1  | 109.2  | 111.5  | 113.9  | 113.9  | 114.6  | 113.1  | 113.1  | 113.1  |
| 95°    | 84.4   | 92.2   | 97.6   | 101.5  | 103.8  | 105.4  | 106.1  | 106.1  | 105.4  | 105.4  | 105.4  |
| 97.5°  | 77.5   | 84.4   | 89.9   | 93.7   | 96.1   | 96.8   | 97.6   | 98.4   | 97.6   | 97.6   | 97.6   |
| 100°   | 70.5   | 77.5   | 82.9   | 86.0   | 89.1   | 89.9   | 90.6   | 91.4   | 91.4   | 90.6   | 90.6   |
| 102.5° | 64.3   | 71.3   | 75.9   | 79.8   | 82.1   | 83.7   | 84.4   | 84.4   | 84.4   | 84.4   | 84.4   |
| 105°   | 58.1   | 65.1   | 69.7   | 73.6   | 75.9   | 77.5   | 78.2   | 79.0   | 79.0   | 78.2   | 78.2   |
| 107.5° | 52.7   | 58.9   | 64.3   | 67.4   | 70.5   | 72.0   | 72.8   | 72.8   | 73.6   | 72.8   | 72.8   |
| 110°   | 47.3   | 54.2   | 58.9   | 62.0   | 65.1   | 66.6   | 67.4   | 68.2   | 68.2   | 68.2   | 68.2   |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 43.4 | 48.8 | 53.4 | 56.5 | 59.6 | 61.2 | 62.0 | 62.7 | 63.5 | 62.7 | 62.7 |
| 115°   | 38.7 | 44.2 | 48.8 | 51.9 | 54.2 | 55.8 | 57.3 | 58.1 | 58.1 | 58.9 | 58.1 |
| 117.5° | 34.9 | 39.5 | 44.2 | 47.3 | 49.6 | 51.9 | 52.7 | 53.4 | 54.2 | 53.4 | 53.4 |
| 120°   | 31.0 | 35.6 | 39.5 | 42.6 | 44.9 | 47.3 | 48.0 | 48.8 | 49.6 | 48.8 | 48.8 |
| 122.5° | 27.9 | 31.8 | 35.6 | 38.7 | 41.1 | 42.6 | 44.2 | 44.2 | 44.9 | 44.9 | 44.9 |
| 125°   | 24.8 | 28.7 | 31.8 | 34.9 | 37.2 | 38.7 | 39.5 | 40.3 | 40.3 | 41.1 | 41.1 |
| 127.5° | 21.7 | 24.8 | 28.7 | 31.0 | 33.3 | 34.9 | 35.6 | 36.4 | 36.4 | 37.2 | 37.2 |
| 130°   | 18.6 | 21.7 | 24.8 | 27.1 | 29.4 | 31.0 | 31.8 | 32.5 | 33.3 | 33.3 | 33.3 |
| 132.5° | 16.3 | 19.4 | 21.7 | 24.0 | 25.6 | 27.1 | 28.7 | 29.4 | 29.4 | 29.4 | 29.4 |
| 135°   | 13.2 | 16.3 | 18.6 | 20.9 | 22.5 | 24.0 | 24.8 | 26.3 | 26.3 | 26.3 | 26.3 |
| 137.5° | 10.8 | 13.9 | 16.3 | 17.8 | 19.4 | 20.9 | 21.7 | 22.5 | 23.2 | 23.2 | 23.2 |
| 140°   | 8.5  | 10.8 | 13.2 | 15.5 | 17.0 | 17.8 | 19.4 | 19.4 | 20.1 | 20.1 | 20.1 |
| 142.5° | 6.2  | 8.5  | 10.1 | 12.4 | 13.9 | 15.5 | 16.3 | 17.0 | 17.0 | 17.0 | 17.0 |
| 145°   | 4.6  | 6.2  | 7.7  | 9.3  | 11.6 | 12.4 | 13.2 | 13.9 | 14.7 | 14.7 | 14.7 |
| 147.5° | 3.1  | 4.6  | 5.4  | 7.0  | 8.5  | 10.1 | 10.8 | 11.6 | 12.4 | 12.4 | 12.4 |
| 150°   | 2.3  | 3.1  | 4.6  | 5.4  | 6.2  | 7.7  | 9.3  | 9.3  | 10.1 | 10.1 | 9.3  |
| 152.5° | 1.5  | 2.3  | 3.1  | 3.9  | 4.6  | 5.4  | 7.0  | 7.0  | 7.7  | 7.7  | 7.7  |
| 155°   | 1.5  | 1.5  | 1.5  | 2.3  | 3.1  | 3.9  | 4.6  | 5.4  | 5.4  | 5.4  | 5.4  |
| 157.5° | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 2.3  | 3.1  | 3.9  | 3.9  | 3.9  | 3.9  |
| 160°   | 1.5  | 1.5  | 0.8  | 0.8  | 1.5  | 1.5  | 1.5  | 1.5  | 2.3  | 2.3  | 2.3  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 |
| 2.5°   | 1406.7 | 1408.3 | 1408.3 | 1406.7 | 1406.0 | 1409.1 | 1405.2 | 1390.5 | 1395.1 | 1396.7 | 1401.3 |
| 5°     | 1399.8 | 1401.3 | 1401.3 | 1401.3 | 1399.8 | 1402.9 | 1399.0 | 1384.3 | 1389.7 | 1392.0 | 1395.1 |
| 7.5°   | 1389.7 | 1390.5 | 1392.0 | 1391.2 | 1389.7 | 1394.3 | 1390.5 | 1375.8 | 1379.6 | 1383.5 | 1387.4 |
| 10°    | 1376.5 | 1376.5 | 1377.3 | 1378.8 | 1377.3 | 1381.2 | 1377.3 | 1364.1 | 1368.0 | 1370.3 | 1375.0 |
| 12.5°  | 1358.7 | 1360.3 | 1361.0 | 1360.3 | 1359.5 | 1362.6 | 1361.0 | 1348.6 | 1350.2 | 1354.8 | 1359.5 |
| 15°    | 1334.7 | 1334.7 | 1338.6 | 1337.0 | 1337.0 | 1340.1 | 1341.7 | 1327.7 | 1330.0 | 1337.0 | 1341.7 |
| 17.5°  | 1305.3 | 1306.0 | 1309.1 | 1310.7 | 1309.9 | 1315.3 | 1316.1 | 1305.3 | 1304.5 | 1313.0 | 1317.7 |
| 20°    | 1267.3 | 1268.9 | 1272.7 | 1275.8 | 1275.8 | 1282.0 | 1284.3 | 1277.4 | 1278.1 | 1287.4 | 1289.0 |
| 22.5°  | 1220.8 | 1220.8 | 1227.8 | 1232.4 | 1236.3 | 1240.2 | 1247.2 | 1241.0 | 1241.0 | 1253.4 | 1260.3 |
| 25°    | 1163.5 | 1168.9 | 1171.2 | 1180.5 | 1186.0 | 1196.8 | 1203.0 | 1203.8 | 1204.6 | 1216.2 | 1220.8 |
| 27.5°  | 1100.0 | 1101.5 | 1108.5 | 1119.3 | 1125.5 | 1135.6 | 1147.2 | 1149.6 | 1153.4 | 1168.9 | 1175.9 |
| 30°    | 1027.9 | 1032.6 | 1035.7 | 1051.2 | 1059.7 | 1072.9 | 1087.6 | 1093.0 | 1096.1 | 1117.0 | 1125.5 |
| 32.5°  | 954.3  | 955.9  | 969.1  | 977.6  | 987.7  | 1001.6 | 1018.6 | 1028.7 | 1034.9 | 1056.6 | 1069.0 |
| 35°    | 880.8  | 883.9  | 894.7  | 905.5  | 915.6  | 929.6  | 947.4  | 961.3  | 972.2  | 991.5  | 1007.8 |
| 37.5°  | 813.4  | 821.1  | 823.4  | 834.3  | 842.0  | 856.0  | 868.4  | 888.5  | 899.4  | 919.5  | 940.4  |
| 40°    | 752.9  | 755.3  | 756.8  | 767.7  | 773.1  | 786.3  | 804.1  | 817.2  | 832.0  | 846.7  | 871.5  |
| 42.5°  | 693.3  | 694.8  | 697.2  | 703.4  | 709.6  | 718.9  | 732.0  | 745.2  | 760.7  | 782.4  | 798.6  |
| 45°    | 638.3  | 639.8  | 641.4  | 645.3  | 650.7  | 659.2  | 667.7  | 677.0  | 692.5  | 711.1  | 728.2  |
| 47.5°  | 587.2  | 590.3  | 590.3  | 591.0  | 594.9  | 601.9  | 608.1  | 619.7  | 628.2  | 638.3  | 657.7  |
| 50°    | 538.4  | 540.7  | 541.5  | 541.5  | 543.8  | 548.4  | 550.0  | 557.7  | 565.5  | 574.8  | 588.7  |
| 52.5°  | 492.7  | 492.7  | 491.9  | 495.0  | 495.0  | 498.1  | 498.9  | 503.5  | 508.9  | 519.0  | 525.2  |
| 55°    | 449.3  | 449.3  | 451.6  | 450.1  | 450.1  | 451.6  | 450.8  | 451.6  | 456.3  | 462.5  | 467.9  |
| 57.5°  | 407.5  | 406.7  | 409.0  | 407.5  | 406.7  | 408.2  | 409.8  | 406.7  | 407.5  | 413.7  | 413.7  |
| 60°    | 365.6  | 366.4  | 368.7  | 367.2  | 367.2  | 367.2  | 365.6  | 364.1  | 362.5  | 366.4  | 368.0  |
| 62.5°  | 332.3  | 330.0  | 332.3  | 330.0  | 331.5  | 330.8  | 329.2  | 326.1  | 326.9  | 325.3  | 323.8  |
| 65°    | 297.5  | 297.5  | 298.2  | 295.9  | 297.5  | 297.5  | 295.1  | 294.4  | 289.7  | 288.2  | 284.3  |
| 67.5°  | 267.2  | 267.2  | 268.0  | 266.5  | 266.5  | 267.2  | 264.9  | 262.6  | 258.0  | 255.6  | 250.2  |
| 70°    | 240.9  | 240.9  | 240.9  | 240.1  | 240.1  | 240.1  | 238.6  | 235.5  | 230.8  | 227.0  | 220.0  |
| 72.5°  | 216.9  | 217.7  | 216.9  | 216.9  | 219.2  | 216.9  | 214.6  | 211.5  | 207.6  | 199.9  | 193.7  |
| 75°    | 197.5  | 198.3  | 197.5  | 197.5  | 197.5  | 196.8  | 196.0  | 191.3  | 186.7  | 180.5  | 171.2  |
| 77.5°  | 180.5  | 180.5  | 181.3  | 180.5  | 180.5  | 179.7  | 177.4  | 173.5  | 168.1  | 162.7  | 151.8  |
| 80°    | 164.2  | 165.0  | 165.8  | 166.5  | 165.0  | 164.2  | 161.9  | 158.8  | 151.8  | 145.6  | 134.8  |
| 82.5°  | 152.6  | 151.8  | 152.6  | 153.4  | 151.8  | 151.1  | 148.7  | 144.9  | 139.4  | 130.9  | 120.1  |
| 85°    | 141.0  | 140.2  | 140.2  | 141.0  | 140.2  | 138.7  | 136.3  | 132.5  | 127.0  | 118.5  | 107.7  |
| 87.5°  | 129.4  | 130.1  | 130.9  | 130.1  | 129.4  | 127.8  | 125.5  | 121.6  | 115.4  | 108.4  | 96.8   |
| 90°    | 120.8  | 120.8  | 120.8  | 120.8  | 120.1  | 118.5  | 116.2  | 111.5  | 106.1  | 97.6   | 87.5   |
| 92.5°  | 113.1  | 113.1  | 113.1  | 113.1  | 112.3  | 110.0  | 107.7  | 103.8  | 97.6   | 89.1   | 79.8   |
| 95°    | 105.4  | 106.1  | 105.4  | 105.4  | 103.8  | 103.0  | 99.2   | 95.3   | 89.9   | 81.3   | 71.3   |
| 97.5°  | 96.8   | 97.6   | 96.8   | 96.8   | 96.1   | 94.5   | 92.2   | 87.5   | 82.1   | 74.4   | 65.1   |
| 100°   | 90.6   | 90.6   | 89.9   | 89.9   | 89.1   | 87.5   | 84.4   | 80.6   | 75.1   | 67.4   | 58.1   |
| 102.5° | 83.7   | 84.4   | 83.7   | 83.7   | 82.1   | 80.6   | 78.2   | 74.4   | 68.9   | 61.2   | 52.7   |
| 105°   | 78.2   | 78.2   | 77.5   | 77.5   | 75.9   | 74.4   | 72.0   | 67.4   | 62.7   | 55.8   | 47.3   |
| 107.5° | 72.8   | 72.8   | 72.0   | 72.0   | 70.5   | 68.9   | 65.8   | 62.0   | 57.3   | 50.4   | 42.6   |
| 110°   | 67.4   | 67.4   | 67.4   | 66.6   | 65.1   | 62.7   | 60.4   | 56.5   | 51.9   | 45.7   | 38.0   |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 63.5 | 62.7 | 62.0 | 61.2 | 59.6 | 58.1 | 55.0 | 51.1 | 46.5 | 41.1 | 34.1 |
| 115°   | 58.1 | 58.1 | 57.3 | 56.5 | 55.0 | 52.7 | 50.4 | 47.3 | 42.6 | 36.4 | 30.2 |
| 117.5° | 53.4 | 53.4 | 52.7 | 51.9 | 50.4 | 48.0 | 45.7 | 42.6 | 38.0 | 32.5 | 27.1 |
| 120°   | 48.8 | 48.8 | 48.0 | 47.3 | 45.7 | 43.4 | 41.8 | 38.0 | 34.1 | 28.7 | 24.0 |
| 122.5° | 44.9 | 44.2 | 44.2 | 42.6 | 41.8 | 39.5 | 37.2 | 34.1 | 30.2 | 25.6 | 20.9 |
| 125°   | 40.3 | 40.3 | 39.5 | 38.7 | 38.0 | 35.6 | 33.3 | 30.2 | 26.3 | 22.5 | 18.6 |
| 127.5° | 36.4 | 36.4 | 35.6 | 34.9 | 34.1 | 31.8 | 29.4 | 27.1 | 23.2 | 19.4 | 15.5 |
| 130°   | 32.5 | 32.5 | 31.8 | 31.0 | 30.2 | 27.9 | 26.3 | 23.2 | 20.1 | 17.0 | 13.2 |
| 132.5° | 29.4 | 29.4 | 28.7 | 27.9 | 26.3 | 24.8 | 23.2 | 20.1 | 17.8 | 14.7 | 11.6 |
| 135°   | 26.3 | 25.6 | 25.6 | 24.8 | 23.2 | 21.7 | 20.1 | 17.8 | 14.7 | 12.4 | 9.3  |
| 137.5° | 23.2 | 22.5 | 21.7 | 20.9 | 20.1 | 18.6 | 17.0 | 15.5 | 13.2 | 10.1 | 7.7  |
| 140°   | 20.1 | 19.4 | 19.4 | 18.6 | 17.0 | 16.3 | 14.7 | 12.4 | 10.8 | 8.5  | 6.2  |
| 142.5° | 17.0 | 17.0 | 16.3 | 15.5 | 14.7 | 13.9 | 12.4 | 10.8 | 8.5  | 7.0  | 4.6  |
| 145°   | 14.7 | 13.9 | 13.9 | 13.2 | 12.4 | 10.8 | 10.1 | 8.5  | 7.0  | 5.4  | 3.9  |
| 147.5° | 11.6 | 11.6 | 11.6 | 10.8 | 10.1 | 9.3  | 8.5  | 7.0  | 5.4  | 3.9  | 2.3  |
| 150°   | 9.3  | 9.3  | 9.3  | 8.5  | 7.7  | 7.0  | 6.2  | 5.4  | 3.9  | 2.3  | 1.5  |
| 152.5° | 7.7  | 7.7  | 7.0  | 7.0  | 6.2  | 5.4  | 4.6  | 3.9  | 2.3  | 1.5  | 1.5  |
| 155°   | 5.4  | 5.4  | 5.4  | 4.6  | 4.6  | 3.9  | 3.1  | 2.3  | 1.5  | 1.5  | 1.5  |
| 157.5° | 3.9  | 3.9  | 3.9  | 3.1  | 3.1  | 2.3  | 2.3  | 1.5  | 1.5  | 1.5  | 1.5  |
| 160°   | 2.3  | 2.3  | 2.3  | 2.3  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 | 1408.3 |
| 2.5°   | 1399.0 | 1398.2 | 1404.4 | 1404.4 | 1397.4 | 1408.3 | 1419.9 |
| 5°     | 1394.3 | 1393.6 | 1399.8 | 1399.8 | 1393.6 | 1404.4 | 1416.8 |
| 7.5°   | 1385.0 | 1385.8 | 1392.0 | 1393.6 | 1385.8 | 1395.9 | 1409.1 |
| 10°    | 1375.0 | 1374.2 | 1381.2 | 1382.7 | 1376.5 | 1385.8 | 1398.2 |
| 12.5°  | 1358.7 | 1358.7 | 1365.7 | 1368.0 | 1361.8 | 1372.7 | 1384.3 |
| 15°    | 1341.7 | 1341.7 | 1346.3 | 1350.2 | 1344.8 | 1354.8 | 1366.5 |
| 17.5°  | 1320.0 | 1319.2 | 1323.9 | 1328.5 | 1323.1 | 1333.9 | 1346.3 |
| 20°    | 1292.1 | 1292.1 | 1297.5 | 1302.9 | 1299.1 | 1309.1 | 1323.1 |
| 22.5°  | 1262.7 | 1259.6 | 1268.9 | 1272.7 | 1270.4 | 1280.5 | 1294.4 |
| 25°    | 1225.5 | 1224.7 | 1234.0 | 1239.4 | 1236.3 | 1247.2 | 1259.6 |
| 27.5°  | 1185.2 | 1184.4 | 1193.7 | 1200.7 | 1199.1 | 1209.2 | 1223.1 |
| 30°    | 1136.4 | 1140.3 | 1148.8 | 1160.4 | 1156.5 | 1167.4 | 1182.1 |
| 32.5°  | 1085.3 | 1089.1 | 1099.2 | 1111.6 | 1112.4 | 1120.9 | 1135.6 |
| 35°    | 1024.1 | 1034.1 | 1041.1 | 1057.4 | 1060.5 | 1069.0 | 1084.5 |
| 37.5°  | 959.8  | 971.4  | 986.1  | 998.5  | 1004.7 | 1011.7 | 1029.5 |
| 40°    | 887.7  | 904.8  | 921.0  | 935.8  | 943.5  | 950.5  | 967.5  |
| 42.5°  | 822.7  | 835.8  | 851.3  | 866.0  | 880.0  | 886.2  | 904.0  |
| 45°    | 749.1  | 764.6  | 778.5  | 796.3  | 810.3  | 817.2  | 835.1  |
| 47.5°  | 677.0  | 692.5  | 711.1  | 723.5  | 738.2  | 745.2  | 762.2  |
| 50°    | 608.1  | 622.0  | 637.5  | 652.2  | 664.6  | 670.8  | 685.6  |
| 52.5°  | 539.9  | 554.6  | 569.4  | 578.7  | 591.8  | 596.5  | 608.9  |
| 55°    | 479.5  | 489.6  | 502.7  | 508.2  | 521.3  | 524.4  | 532.9  |
| 57.5°  | 421.4  | 428.4  | 433.0  | 442.3  | 451.6  | 458.6  | 468.7  |
| 60°    | 368.7  | 371.8  | 374.9  | 380.3  | 388.1  | 390.4  | 394.3  |
| 62.5°  | 321.5  | 320.7  | 326.9  | 328.4  | 329.2  | 337.0  | 333.1  |
| 65°    | 279.6  | 280.4  | 275.0  | 272.7  | 275.8  | 278.1  | 276.5  |
| 67.5°  | 244.8  | 240.1  | 235.5  | 230.1  | 225.4  | 227.7  | 225.4  |
| 70°    | 210.7  | 206.8  | 199.1  | 191.3  | 188.2  | 183.6  | 181.3  |
| 72.5°  | 183.6  | 174.3  | 166.5  | 156.5  | 151.1  | 145.6  | 141.8  |
| 75°    | 162.7  | 149.5  | 138.7  | 127.8  | 120.1  | 112.3  | 110.8  |
| 77.5°  | 141.0  | 128.6  | 116.2  | 104.6  | 93.0   | 84.4   | 81.3   |
| 80°    | 123.9  | 112.3  | 97.6   | 83.7   | 71.3   | 60.4   | 56.5   |
| 82.5°  | 108.4  | 96.1   | 81.3   | 66.6   | 52.7   | 41.1   | 36.4   |
| 85°    | 95.3   | 82.1   | 67.4   | 52.7   | 38.7   | 26.3   | 20.1   |
| 87.5°  | 85.2   | 70.5   | 55.8   | 41.8   | 27.1   | 14.7   | 7.7    |
| 90°    | 75.9   | 62.0   | 48.0   | 33.3   | 19.4   | 7.7    | 0.0    |
| 92.5°  | 67.4   | 54.2   | 40.3   | 27.1   | 14.7   | 4.6    | 0.8    |
| 95°    | 59.6   | 48.0   | 34.1   | 21.7   | 10.8   | 3.1    | 0.8    |
| 97.5°  | 53.4   | 41.8   | 29.4   | 17.8   | 8.5    | 2.3    | 0.8    |
| 100°   | 48.0   | 36.4   | 25.6   | 14.7   | 7.0    | 1.5    | 0.8    |
| 102.5° | 42.6   | 32.5   | 21.7   | 12.4   | 5.4    | 0.8    | 0.8    |
| 105°   | 38.0   | 28.7   | 18.6   | 10.8   | 4.6    | 0.8    | 0.8    |
| 107.5° | 34.1   | 25.6   | 16.3   | 9.3    | 3.1    | 0.8    | 0.8    |
| 110°   | 30.2   | 21.7   | 13.9   | 7.7    | 2.3    | 0.8    | 0.8    |



TEST NUMBER: P1213769

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 27.1 | 19.4 | 12.4 | 6.2  | 1.5  | 0.8  | 0.8  |
| 115°   | 24.0 | 17.0 | 10.8 | 5.4  | 1.5  | 0.8  | 0.8  |
| 117.5° | 20.9 | 14.7 | 9.3  | 3.9  | 0.8  | 0.8  | 0.8  |
| 120°   | 18.6 | 13.2 | 7.7  | 3.1  | 0.8  | 0.8  | 0.8  |
| 122.5° | 16.3 | 10.8 | 6.2  | 2.3  | 0.8  | 0.8  | 0.8  |
| 125°   | 13.9 | 9.3  | 5.4  | 1.5  | 0.8  | 0.8  | 0.8  |
| 127.5° | 11.6 | 7.7  | 3.9  | 1.5  | 0.8  | 0.8  | 0.8  |
| 130°   | 10.1 | 6.2  | 3.1  | 0.8  | 0.8  | 0.8  | 0.8  |
| 132.5° | 8.5  | 4.6  | 2.3  | 0.8  | 0.8  | 0.8  | 0.8  |
| 135°   | 7.0  | 3.9  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  |
| 137.5° | 5.4  | 3.1  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  |
| 140°   | 3.9  | 2.3  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 142.5° | 3.1  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 145°   | 2.3  | 1.5  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 147.5° | 1.5  | 1.5  | 1.5  | 1.5  | 0.8  | 0.8  | 0.8  |
| 150°   | 1.5  | 1.5  | 0.8  | 0.8  | 1.5  | 0.8  | 0.8  |
| 152.5° | 1.5  | 0.8  | 0.8  | 0.8  | 1.5  | 0.8  | 0.8  |
| 155°   | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 0.8  |
| 157.5° | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 160°   | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)