

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: P1213067

Luminaire Tested: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213067  
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-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

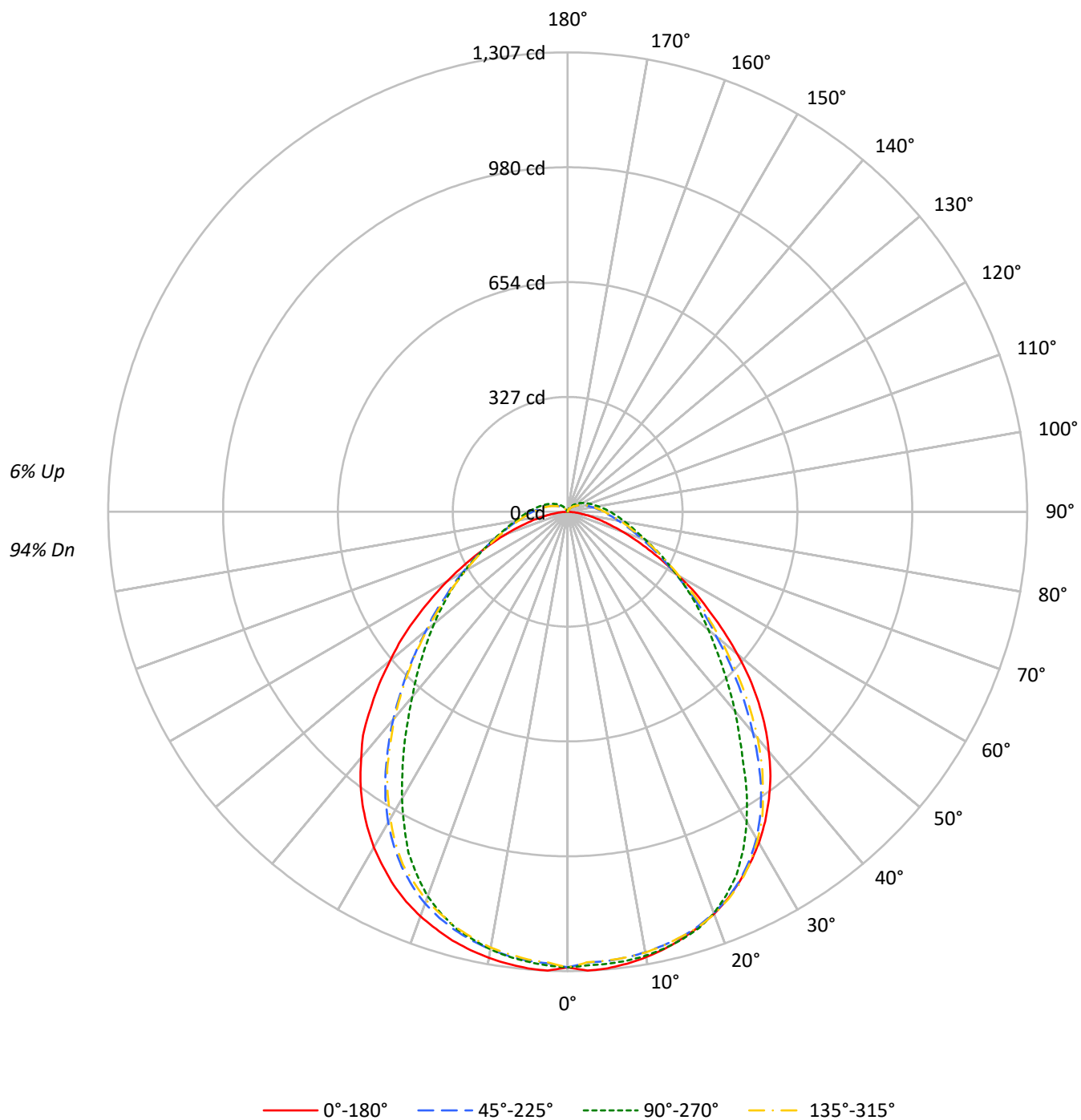
Lumens per Lamp: N/A  
Luminaire Lumens: 3280.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213067

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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°  | 10474 | 10474 | 10474 | 10474 |
| 5°  | 10548 | 10140 | 10548 | 10095 |
| 10° | 10501 | 9870  | 10518 | 9733  |
| 15° | 10434 | 9576  | 10481 | 9326  |
| 20° | 10353 | 9196  | 10414 | 8808  |
| 25° | 10187 | 8634  | 10300 | 8125  |
| 30° | 9971  | 7807  | 10103 | 7228  |
| 35° | 9636  | 6794  | 9821  | 6327  |
| 40° | 9153  | 5942  | 9394  | 5513  |
| 45° | 8516  | 5166  | 8794  | 4869  |
| 50° | 7647  | 4539  | 7984  | 4310  |
| 55° | 6615  | 4008  | 7095  | 3805  |
| 60° | 5564  | 3519  | 6067  | 3316  |
| 65° | 4561  | 3111  | 5021  | 2885  |
| 70° | 3629  | 2761  | 4065  | 2554  |
| 75° | 2849  | 2549  | 3210  | 2346  |
| 80° | 2056  | 2460  | 2423  | 2247  |
| 85° | 1264  | 2475  | 1708  | 2273  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 8794 cd/sqm

TEST NUMBER: P1213067

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.9  | 3.7       |
| 10°-20°   | 352.3  | 10.7      |
| 20°-30°   | 522.2  | 15.9      |
| 30°-40°   | 580.1  | 17.7      |
| 40°-50°   | 525.9  | 16.0      |
| 50°-60°   | 407.5  | 12.4      |
| 60°-70°   | 276.7  | 8.4       |
| 70°-80°   | 176.0  | 5.4       |
| 80°-90°   | 112.5  | 3.4       |
| 90°-100°  | 75.9   | 2.3       |
| 100°-110° | 52.0   | 1.6       |
| 110°-120° | 34.7   | 1.1       |
| 120°-130° | 21.6   | 0.7       |
| 130°-140° | 11.9   | 0.4       |
| 140°-150° | 5.6    | 0.2       |
| 150°-160° | 2.1    | 0.1       |
| 160°-170° | 0.1    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 997.4  | 30.4      |
| 0°-40°    | 1577.5 | 48.1      |
| 0°-60°    | 2510.9 | 76.6      |
| 0°-90°    | 3076.2 | 93.8      |
| 90°-120°  | 162.5  | 5.0       |
| 90°-150°  | 201.6  | 6.1       |
| 90°-180°  | 204.0  | 6.2       |
| 0°-180°   | 3280.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1296 | 1296 | 1296 | 1296 | 1296 |      |
| 5°   | 1304 | 1291 | 1304 | 1285 | 1304 | 124  |
| 15°  | 1258 | 1260 | 1263 | 1227 | 1258 | 355  |
| 25°  | 1159 | 1138 | 1172 | 1071 | 1159 | 534  |
| 35°  | 998  | 870  | 1017 | 810  | 998  | 623  |
| 45°  | 768  | 622  | 794  | 586  | 768  | 590  |
| 55°  | 490  | 437  | 526  | 415  | 490  | 442  |
| 65°  | 254  | 294  | 280  | 272  | 254  | 255  |
| 75°  | 102  | 196  | 115  | 180  | 102  | 110  |
| 85°  | 18   | 141  | 25   | 130  | 18   | 22   |
| 90°  | 0    | 122  | 1    | 111  | 0    | 1    |
| 95°  | 1    | 104  | 0    | 97   | 1    | 1    |
| 105° | 1    | 76   | 0    | 72   | 1    | 1    |
| 115° | 1    | 58   | 0    | 54   | 1    | 1    |
| 125° | 1    | 43   | 1    | 38   | 1    | 1    |
| 135° | 1    | 30   | 1    | 24   | 1    | 1    |
| 145° | 1    | 19   | 1    | 14   | 1    | 0    |
| 155° | 1    | 11   | 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: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 |
| 2.5°   | 1306.8 | 1305.3 | 1303.9 | 1301.8 | 1303.9 | 1309.6 | 1306.0 | 1298.2 | 1296.8 | 1283.9 | 1289.6 |
| 5°     | 1303.9 | 1301.8 | 1300.3 | 1298.2 | 1301.1 | 1308.2 | 1304.6 | 1297.5 | 1295.4 | 1283.2 | 1289.6 |
| 7.5°   | 1296.8 | 1295.4 | 1293.2 | 1293.2 | 1296.1 | 1303.2 | 1300.3 | 1292.5 | 1291.1 | 1279.0 | 1286.1 |
| 10°    | 1286.8 | 1286.1 | 1284.7 | 1284.7 | 1287.5 | 1296.1 | 1292.5 | 1285.4 | 1283.9 | 1272.5 | 1280.4 |
| 12.5°  | 1274.0 | 1274.7 | 1272.5 | 1272.5 | 1276.8 | 1285.4 | 1282.5 | 1274.7 | 1273.3 | 1263.3 | 1271.1 |
| 15°    | 1257.6 | 1258.3 | 1256.9 | 1257.6 | 1261.8 | 1271.8 | 1268.3 | 1261.1 | 1259.7 | 1251.9 | 1258.3 |
| 17.5°  | 1239.0 | 1239.7 | 1239.7 | 1239.0 | 1244.0 | 1254.0 | 1251.2 | 1244.7 | 1242.6 | 1236.2 | 1244.0 |
| 20°    | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1223.3 | 1233.3 | 1229.8 | 1224.8 | 1220.5 | 1215.5 | 1221.9 |
| 22.5°  | 1191.3 | 1190.6 | 1191.3 | 1193.4 | 1199.1 | 1207.0 | 1204.8 | 1199.1 | 1192.7 | 1189.8 | 1194.8 |
| 25°    | 1159.2 | 1161.3 | 1162.0 | 1164.2 | 1171.3 | 1177.7 | 1175.6 | 1169.9 | 1159.9 | 1157.8 | 1159.2 |
| 27.5°  | 1125.7 | 1127.1 | 1129.2 | 1128.5 | 1138.5 | 1144.9 | 1140.7 | 1135.7 | 1121.4 | 1119.3 | 1117.8 |
| 30°    | 1087.9 | 1090.0 | 1091.5 | 1090.7 | 1098.6 | 1105.7 | 1101.4 | 1095.0 | 1075.8 | 1074.4 | 1062.9 |
| 32.5°  | 1045.1 | 1047.3 | 1048.7 | 1048.7 | 1060.1 | 1062.9 | 1055.1 | 1045.8 | 1025.2 | 1020.2 | 1010.2 |
| 35°    | 998.1  | 1000.2 | 1000.9 | 1000.9 | 1012.3 | 1011.6 | 1001.6 | 988.8  | 966.0  | 959.6  | 942.5  |
| 37.5°  | 947.5  | 948.9  | 949.6  | 953.9  | 958.9  | 954.6  | 941.8  | 925.4  | 908.2  | 890.4  | 871.9  |
| 40°    | 890.4  | 892.6  | 894.0  | 896.8  | 901.8  | 896.8  | 878.3  | 858.3  | 839.8  | 819.8  | 801.3  |
| 42.5°  | 832.0  | 838.4  | 837.0  | 836.2  | 839.1  | 825.5  | 811.3  | 788.5  | 769.9  | 749.3  | 730.7  |
| 45°    | 768.5  | 767.8  | 771.4  | 772.8  | 772.1  | 760.7  | 740.7  | 720.0  | 701.5  | 680.1  | 664.4  |
| 47.5°  | 701.5  | 700.8  | 703.6  | 705.1  | 700.8  | 688.7  | 673.0  | 649.5  | 633.8  | 615.2  | 603.1  |
| 50°    | 630.9  | 630.9  | 635.2  | 630.9  | 628.8  | 616.7  | 603.8  | 580.3  | 568.2  | 551.8  | 544.7  |
| 52.5°  | 560.3  | 566.8  | 562.5  | 561.1  | 558.9  | 546.8  | 536.8  | 517.6  | 507.6  | 500.5  | 491.9  |
| 55°    | 490.5  | 497.6  | 494.8  | 492.6  | 491.9  | 481.9  | 472.7  | 458.4  | 452.0  | 447.0  | 442.0  |
| 57.5°  | 431.3  | 430.6  | 429.2  | 427.0  | 427.7  | 419.9  | 410.6  | 402.8  | 399.9  | 397.8  | 399.2  |
| 60°    | 362.9  | 368.6  | 366.4  | 367.1  | 367.9  | 366.4  | 358.6  | 353.6  | 354.3  | 355.0  | 357.2  |
| 62.5°  | 306.6  | 311.5  | 315.1  | 312.3  | 313.7  | 315.8  | 311.5  | 310.1  | 313.0  | 315.8  | 318.7  |
| 65°    | 254.5  | 259.5  | 263.1  | 262.3  | 266.6  | 270.9  | 270.2  | 271.6  | 278.0  | 281.6  | 285.2  |
| 67.5°  | 207.5  | 212.4  | 217.4  | 218.1  | 224.6  | 231.0  | 233.8  | 238.8  | 246.0  | 250.9  | 255.2  |
| 70°    | 166.8  | 171.1  | 176.8  | 180.4  | 188.9  | 197.5  | 202.5  | 212.4  | 216.7  | 223.9  | 226.7  |
| 72.5°  | 130.5  | 134.0  | 141.9  | 150.4  | 157.6  | 168.2  | 178.2  | 186.8  | 193.2  | 201.0  | 204.6  |
| 75°    | 101.9  | 103.4  | 111.9  | 121.9  | 131.9  | 144.0  | 154.7  | 164.0  | 172.5  | 180.4  | 186.1  |
| 77.5°  | 74.9   | 77.0   | 84.8   | 98.4   | 109.8  | 122.6  | 134.7  | 144.7  | 154.0  | 161.8  | 169.7  |
| 80°    | 52.0   | 56.3   | 64.9   | 78.4   | 91.3   | 105.5  | 116.9  | 128.3  | 138.3  | 146.1  | 154.0  |
| 82.5°  | 33.5   | 37.1   | 49.2   | 62.7   | 76.3   | 90.5   | 102.7  | 114.1  | 124.8  | 133.3  | 140.4  |
| 85°    | 18.5   | 23.5   | 35.6   | 49.9   | 63.4   | 77.7   | 90.5   | 101.9  | 112.6  | 120.5  | 127.6  |
| 87.5°  | 7.1    | 14.3   | 25.7   | 39.2   | 52.8   | 66.3   | 79.8   | 90.5   | 101.2  | 109.8  | 116.2  |
| 90°    | 0.0    | 8.6    | 19.2   | 32.8   | 46.3   | 59.9   | 72.7   | 84.1   | 94.1   | 101.9  | 109.1  |
| 92.5°  | 0.7    | 5.7    | 15.0   | 26.4   | 39.2   | 52.0   | 64.2   | 75.6   | 85.5   | 93.4   | 99.8   |
| 95°    | 0.7    | 4.3    | 12.1   | 22.8   | 34.2   | 46.3   | 57.7   | 68.4   | 77.7   | 85.5   | 92.0   |
| 97.5°  | 0.7    | 2.9    | 10.0   | 20.0   | 29.9   | 42.1   | 52.8   | 62.7   | 71.3   | 79.1   | 84.1   |
| 100°   | 0.7    | 2.9    | 8.6    | 17.1   | 27.1   | 37.8   | 47.8   | 57.7   | 65.6   | 72.0   | 77.7   |
| 102.5° | 0.7    | 2.1    | 7.1    | 15.0   | 24.2   | 33.5   | 43.5   | 52.8   | 59.9   | 66.3   | 72.0   |
| 105°   | 0.7    | 2.1    | 6.4    | 12.8   | 21.4   | 30.7   | 39.2   | 47.8   | 55.6   | 61.3   | 66.3   |
| 107.5° | 0.7    | 1.4    | 5.7    | 10.7   | 18.5   | 27.8   | 36.4   | 43.5   | 50.6   | 56.3   | 61.3   |
| 110°   | 0.7    | 1.4    | 5.0    | 10.0   | 16.4   | 25.0   | 32.8   | 39.9   | 46.3   | 52.0   | 56.3   |

TEST NUMBER: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  |
|--------|-----|-----|-----|-----|------|------|------|------|------|------|------|
| 112.5° | 0.7 | 1.4 | 4.3 | 9.3 | 15.0 | 22.1 | 29.9 | 36.4 | 42.8 | 47.8 | 52.0 |
| 115°   | 0.7 | 1.4 | 4.3 | 8.6 | 13.5 | 19.2 | 26.4 | 33.5 | 38.5 | 44.2 | 47.8 |
| 117.5° | 0.7 | 1.4 | 3.6 | 7.1 | 12.8 | 17.8 | 24.2 | 29.9 | 35.6 | 40.6 | 44.2 |
| 120°   | 0.7 | 1.4 | 3.6 | 6.4 | 11.4 | 16.4 | 21.4 | 27.1 | 32.8 | 36.4 | 39.9 |
| 122.5° | 0.7 | 1.4 | 2.9 | 6.4 | 10.0 | 15.0 | 19.2 | 24.2 | 29.2 | 33.5 | 37.1 |
| 125°   | 0.7 | 1.4 | 2.9 | 5.7 | 9.3  | 13.5 | 17.8 | 21.4 | 26.4 | 29.9 | 33.5 |
| 127.5° | 0.7 | 1.4 | 2.9 | 5.0 | 8.6  | 12.1 | 16.4 | 20.0 | 23.5 | 27.1 | 29.9 |
| 130°   | 0.7 | 1.4 | 2.1 | 4.3 | 7.8  | 10.7 | 14.3 | 18.5 | 21.4 | 24.2 | 27.1 |
| 132.5° | 0.7 | 1.4 | 2.1 | 4.3 | 6.4  | 9.3  | 12.8 | 16.4 | 19.2 | 22.1 | 24.2 |
| 135°   | 0.7 | 1.4 | 2.1 | 3.6 | 5.7  | 8.6  | 10.7 | 14.3 | 17.1 | 20.0 | 22.1 |
| 137.5° | 0.7 | 1.4 | 2.1 | 3.6 | 5.0  | 7.1  | 9.3  | 12.1 | 15.0 | 17.1 | 20.0 |
| 140°   | 0.7 | 1.4 | 2.1 | 2.9 | 4.3  | 6.4  | 8.6  | 10.0 | 12.8 | 15.0 | 17.1 |
| 142.5° | 0.7 | 1.4 | 2.1 | 2.9 | 4.3  | 5.7  | 7.1  | 8.6  | 10.7 | 12.8 | 15.0 |
| 145°   | 0.7 | 1.4 | 2.1 | 2.9 | 3.6  | 5.0  | 6.4  | 7.8  | 8.6  | 10.7 | 12.1 |
| 147.5° | 0.7 | 1.4 | 2.1 | 2.9 | 2.9  | 4.3  | 5.7  | 6.4  | 7.8  | 8.6  | 10.0 |
| 150°   | 0.7 | 1.4 | 2.1 | 2.1 | 2.9  | 3.6  | 5.0  | 5.7  | 6.4  | 7.8  | 8.6  |
| 152.5° | 0.7 | 1.4 | 2.1 | 2.1 | 2.9  | 3.6  | 4.3  | 5.0  | 5.7  | 6.4  | 7.1  |
| 155°   | 0.7 | 1.4 | 2.1 | 2.1 | 2.1  | 2.9  | 3.6  | 4.3  | 5.0  | 5.7  | 6.4  |
| 157.5° | 1.4 | 1.4 | 1.4 | 2.1 | 2.1  | 2.9  | 2.9  | 3.6  | 4.3  | 4.3  | 5.0  |
| 160°   | 1.4 | 1.4 | 1.4 | 2.1 | 2.1  | 2.1  | 2.9  | 2.9  | 3.6  | 3.6  | 4.3  |
| 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: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 |
| 2.5°   | 1288.2 | 1290.4 | 1296.8 | 1296.8 | 1295.4 | 1293.9 | 1293.9 | 1291.8 | 1293.2 | 1296.1 | 1294.6 |
| 5°     | 1288.2 | 1290.4 | 1296.8 | 1296.8 | 1295.4 | 1293.9 | 1293.2 | 1291.1 | 1293.2 | 1296.1 | 1294.6 |
| 7.5°   | 1283.9 | 1286.8 | 1293.2 | 1293.2 | 1291.8 | 1291.1 | 1289.6 | 1288.2 | 1290.4 | 1293.2 | 1291.8 |
| 10°    | 1278.2 | 1281.1 | 1287.5 | 1287.5 | 1286.1 | 1286.1 | 1283.9 | 1282.5 | 1285.4 | 1287.5 | 1286.8 |
| 12.5°  | 1269.7 | 1273.3 | 1279.0 | 1278.2 | 1276.8 | 1277.5 | 1275.4 | 1272.5 | 1275.4 | 1277.5 | 1278.2 |
| 15°    | 1257.6 | 1261.8 | 1267.5 | 1266.1 | 1264.0 | 1265.4 | 1261.8 | 1259.7 | 1261.8 | 1266.1 | 1265.4 |
| 17.5°  | 1241.9 | 1244.7 | 1249.0 | 1249.0 | 1246.9 | 1245.4 | 1244.0 | 1241.9 | 1243.3 | 1246.2 | 1246.9 |
| 20°    | 1219.8 | 1223.3 | 1225.5 | 1223.3 | 1222.6 | 1220.5 | 1217.6 | 1215.5 | 1218.4 | 1222.6 | 1223.3 |
| 22.5°  | 1190.6 | 1191.3 | 1196.3 | 1191.3 | 1187.7 | 1187.0 | 1184.1 | 1179.9 | 1184.1 | 1187.7 | 1188.4 |
| 25°    | 1154.2 | 1157.8 | 1155.6 | 1147.1 | 1147.1 | 1141.4 | 1139.9 | 1137.8 | 1138.5 | 1144.9 | 1147.8 |
| 27.5°  | 1107.9 | 1109.3 | 1103.6 | 1096.5 | 1090.0 | 1086.5 | 1081.5 | 1082.2 | 1082.2 | 1090.7 | 1093.6 |
| 30°    | 1057.2 | 1049.4 | 1044.4 | 1033.0 | 1028.0 | 1019.5 | 1018.0 | 1018.0 | 1016.6 | 1020.9 | 1033.7 |
| 32.5°  | 996.6  | 986.0  | 978.1  | 967.4  | 958.9  | 950.3  | 946.0  | 948.2  | 947.5  | 958.1  | 962.4  |
| 35°    | 930.3  | 923.9  | 907.5  | 894.0  | 889.0  | 876.2  | 876.2  | 869.7  | 874.0  | 886.1  | 891.1  |
| 37.5°  | 860.5  | 850.5  | 837.0  | 822.0  | 818.4  | 808.4  | 804.9  | 801.3  | 810.6  | 812.7  | 817.7  |
| 40°    | 789.2  | 779.9  | 767.1  | 752.8  | 752.8  | 740.7  | 740.7  | 740.7  | 741.4  | 745.7  | 755.0  |
| 42.5°  | 721.5  | 711.5  | 700.1  | 690.1  | 688.7  | 679.4  | 679.4  | 678.7  | 680.1  | 683.7  | 692.2  |
| 45°    | 655.9  | 648.0  | 635.9  | 630.9  | 631.6  | 621.7  | 623.8  | 621.7  | 624.5  | 628.1  | 630.9  |
| 47.5°  | 595.3  | 590.3  | 585.3  | 578.2  | 576.0  | 575.3  | 571.8  | 568.9  | 573.9  | 573.9  | 578.2  |
| 50°    | 539.0  | 536.1  | 533.3  | 529.0  | 529.7  | 526.8  | 522.6  | 522.6  | 526.1  | 526.8  | 529.7  |
| 52.5°  | 489.8  | 486.2  | 482.6  | 483.4  | 484.1  | 482.6  | 480.5  | 478.4  | 480.5  | 481.9  | 485.5  |
| 55°    | 440.6  | 437.7  | 441.3  | 439.9  | 441.3  | 439.9  | 438.4  | 437.0  | 440.6  | 438.4  | 442.0  |
| 57.5°  | 396.4  | 399.2  | 400.7  | 397.8  | 399.9  | 398.5  | 399.2  | 397.1  | 399.9  | 401.4  | 400.7  |
| 60°    | 355.7  | 360.0  | 357.9  | 358.6  | 361.4  | 360.0  | 357.2  | 359.3  | 362.2  | 362.9  | 362.2  |
| 62.5°  | 318.7  | 323.7  | 325.8  | 324.4  | 325.1  | 323.7  | 325.8  | 322.9  | 326.5  | 327.9  | 325.8  |
| 65°    | 285.2  | 290.9  | 292.3  | 292.3  | 292.3  | 290.9  | 293.0  | 293.7  | 295.1  | 295.1  | 293.7  |
| 67.5°  | 256.6  | 261.6  | 263.1  | 264.5  | 263.1  | 261.6  | 261.6  | 262.3  | 265.2  | 266.6  | 265.2  |
| 70°    | 231.0  | 236.0  | 236.7  | 236.7  | 237.4  | 238.8  | 236.0  | 237.4  | 239.5  | 240.2  | 239.5  |
| 72.5°  | 208.9  | 213.9  | 215.3  | 214.6  | 215.3  | 216.0  | 216.0  | 214.6  | 216.7  | 218.1  | 218.1  |
| 75°    | 191.1  | 193.9  | 195.3  | 195.3  | 196.0  | 196.8  | 196.8  | 196.0  | 197.5  | 198.2  | 198.9  |
| 77.5°  | 174.7  | 176.8  | 178.9  | 178.9  | 179.7  | 178.9  | 180.4  | 180.4  | 181.1  | 181.8  | 182.5  |
| 80°    | 158.3  | 161.1  | 162.5  | 163.3  | 164.7  | 165.4  | 165.4  | 165.4  | 166.1  | 166.8  | 166.8  |
| 82.5°  | 145.4  | 147.6  | 149.7  | 151.8  | 151.8  | 152.6  | 152.6  | 152.6  | 153.3  | 153.3  | 154.0  |
| 85°    | 132.6  | 135.5  | 137.6  | 139.0  | 139.7  | 140.4  | 140.4  | 141.2  | 141.2  | 141.2  | 141.9  |
| 87.5°  | 121.2  | 124.8  | 126.2  | 127.6  | 128.3  | 129.7  | 129.7  | 129.7  | 130.5  | 130.5  | 130.5  |
| 90°    | 113.4  | 116.9  | 118.3  | 119.8  | 120.5  | 121.2  | 121.2  | 121.9  | 121.9  | 122.6  | 122.6  |
| 92.5°  | 104.1  | 107.6  | 110.5  | 110.5  | 111.2  | 112.6  | 111.9  | 111.9  | 112.6  | 113.4  | 113.4  |
| 95°    | 97.0   | 99.8   | 101.9  | 102.7  | 103.4  | 103.4  | 103.4  | 104.1  | 103.4  | 104.1  | 104.1  |
| 97.5°  | 88.4   | 91.3   | 93.4   | 94.8   | 95.5   | 95.5   | 95.5   | 96.2   | 95.5   | 96.2   | 96.2   |
| 100°   | 81.3   | 84.1   | 86.3   | 87.0   | 88.4   | 88.4   | 88.4   | 88.4   | 88.4   | 88.4   | 89.1   |
| 102.5° | 75.6   | 78.4   | 79.8   | 80.6   | 81.3   | 82.0   | 82.0   | 82.0   | 82.0   | 82.7   | 82.7   |
| 105°   | 69.9   | 72.7   | 74.1   | 74.9   | 75.6   | 76.3   | 76.3   | 76.3   | 77.0   | 77.0   | 76.3   |
| 107.5° | 64.9   | 67.0   | 68.4   | 69.9   | 70.6   | 70.6   | 71.3   | 71.3   | 71.3   | 71.3   | 71.3   |
| 110°   | 59.9   | 62.0   | 64.2   | 65.6   | 65.6   | 66.3   | 66.3   | 67.0   | 67.0   | 66.3   | 67.0   |

TEST NUMBER: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85°  | 90°  | 95°  | 100° | 105° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 54.9 | 57.7 | 59.2 | 60.6 | 61.3 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 |
| 115°   | 50.6 | 53.5 | 54.9 | 56.3 | 57.0 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 |
| 117.5° | 47.1 | 49.9 | 51.3 | 52.0 | 52.8 | 53.5 | 54.2 | 54.2 | 54.2 | 54.2 | 53.5 |
| 120°   | 43.5 | 45.6 | 47.1 | 48.5 | 49.2 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 |
| 122.5° | 39.9 | 42.1 | 43.5 | 44.9 | 45.6 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 |
| 125°   | 36.4 | 38.5 | 39.9 | 41.3 | 42.1 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 |
| 127.5° | 32.8 | 34.9 | 37.1 | 37.8 | 38.5 | 39.2 | 39.2 | 39.2 | 39.9 | 39.2 | 39.2 |
| 130°   | 29.2 | 31.4 | 33.5 | 34.2 | 34.9 | 35.6 | 36.4 | 36.4 | 36.4 | 36.4 | 35.6 |
| 132.5° | 26.4 | 28.5 | 29.9 | 30.7 | 32.1 | 32.1 | 32.8 | 32.8 | 32.8 | 32.8 | 32.1 |
| 135°   | 24.2 | 25.7 | 27.1 | 27.8 | 29.2 | 29.2 | 29.2 | 29.9 | 29.9 | 29.2 | 28.5 |
| 137.5° | 21.4 | 22.8 | 24.2 | 25.0 | 25.7 | 26.4 | 26.4 | 27.1 | 26.4 | 26.4 | 26.4 |
| 140°   | 20.0 | 20.7 | 22.1 | 22.8 | 23.5 | 23.5 | 23.5 | 24.2 | 24.2 | 23.5 | 23.5 |
| 142.5° | 17.1 | 18.5 | 20.0 | 20.7 | 21.4 | 21.4 | 21.4 | 21.4 | 21.4 | 21.4 | 21.4 |
| 145°   | 14.3 | 16.4 | 17.1 | 18.5 | 18.5 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 18.5 |
| 147.5° | 12.1 | 13.5 | 15.7 | 16.4 | 16.4 | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 | 16.4 |
| 150°   | 9.3  | 10.7 | 12.8 | 14.3 | 14.3 | 15.0 | 15.0 | 15.0 | 15.0 | 14.3 | 14.3 |
| 152.5° | 7.8  | 9.3  | 10.0 | 11.4 | 12.1 | 12.1 | 12.1 | 12.8 | 12.1 | 12.1 | 12.1 |
| 155°   | 7.1  | 7.8  | 8.6  | 9.3  | 10.0 | 10.7 | 10.7 | 10.7 | 10.7 | 10.0 | 10.0 |
| 157.5° | 5.7  | 6.4  | 7.1  | 7.8  | 8.6  | 9.3  | 9.3  | 9.3  | 9.3  | 9.3  | 8.6  |
| 160°   | 4.3  | 5.0  | 5.7  | 5.7  | 6.4  | 7.1  | 7.8  | 7.1  | 7.1  | 7.1  | 7.1  |
| 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: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 |
| 2.5°   | 1293.2 | 1292.5 | 1294.6 | 1291.1 | 1280.4 | 1283.2 | 1281.8 | 1288.2 | 1289.6 | 1291.1 | 1297.5 |
| 5°     | 1293.2 | 1292.5 | 1293.9 | 1291.1 | 1279.7 | 1281.8 | 1280.4 | 1286.8 | 1288.2 | 1288.9 | 1295.4 |
| 7.5°   | 1290.4 | 1289.6 | 1291.8 | 1288.2 | 1276.1 | 1279.0 | 1276.8 | 1283.2 | 1283.9 | 1284.7 | 1290.4 |
| 10°    | 1284.7 | 1283.9 | 1285.4 | 1282.5 | 1270.4 | 1273.3 | 1270.4 | 1276.8 | 1276.8 | 1278.2 | 1282.5 |
| 12.5°  | 1276.1 | 1274.7 | 1277.5 | 1274.0 | 1260.4 | 1264.0 | 1262.6 | 1266.8 | 1267.5 | 1268.3 | 1272.5 |
| 15°    | 1264.0 | 1262.6 | 1264.7 | 1262.6 | 1250.4 | 1251.2 | 1249.0 | 1255.4 | 1256.1 | 1254.7 | 1259.0 |
| 17.5°  | 1246.2 | 1244.7 | 1249.0 | 1247.6 | 1235.5 | 1238.3 | 1237.6 | 1239.0 | 1241.2 | 1237.6 | 1243.3 |
| 20°    | 1224.1 | 1225.5 | 1226.9 | 1227.6 | 1218.4 | 1218.4 | 1217.6 | 1220.5 | 1222.6 | 1219.8 | 1224.1 |
| 22.5°  | 1191.3 | 1194.8 | 1199.1 | 1200.5 | 1194.1 | 1193.4 | 1197.7 | 1196.3 | 1198.4 | 1197.0 | 1199.8 |
| 25°    | 1149.9 | 1157.0 | 1161.3 | 1165.6 | 1162.0 | 1163.5 | 1169.9 | 1171.3 | 1171.3 | 1170.6 | 1173.4 |
| 27.5°  | 1098.6 | 1107.9 | 1115.7 | 1125.0 | 1121.4 | 1124.3 | 1134.9 | 1136.4 | 1139.2 | 1136.4 | 1142.1 |
| 30°    | 1037.3 | 1045.8 | 1060.8 | 1074.4 | 1075.8 | 1080.1 | 1095.0 | 1096.5 | 1104.3 | 1101.4 | 1103.6 |
| 32.5°  | 976.0  | 980.2  | 997.4  | 1010.9 | 1019.5 | 1030.2 | 1046.5 | 1049.4 | 1060.1 | 1062.2 | 1062.2 |
| 35°    | 899.0  | 911.1  | 926.8  | 946.0  | 956.7  | 968.1  | 990.2  | 994.5  | 1010.2 | 1015.2 | 1020.9 |
| 37.5°  | 834.1  | 845.5  | 855.5  | 875.4  | 894.7  | 907.5  | 925.4  | 936.0  | 952.4  | 961.7  | 968.8  |
| 40°    | 764.9  | 774.2  | 784.9  | 804.9  | 821.3  | 840.5  | 858.3  | 871.2  | 891.8  | 902.5  | 911.8  |
| 42.5°  | 699.4  | 706.5  | 717.9  | 732.2  | 749.3  | 770.7  | 787.8  | 802.7  | 824.8  | 839.8  | 850.5  |
| 45°    | 640.9  | 645.2  | 655.2  | 665.9  | 680.8  | 702.9  | 719.3  | 738.6  | 756.4  | 772.1  | 784.9  |
| 47.5°  | 586.0  | 591.7  | 596.7  | 603.8  | 617.4  | 630.9  | 650.2  | 668.7  | 686.5  | 703.6  | 716.5  |
| 50°    | 535.4  | 535.4  | 543.2  | 548.2  | 557.5  | 569.6  | 584.6  | 597.4  | 619.5  | 631.6  | 648.0  |
| 52.5°  | 486.2  | 489.1  | 493.3  | 496.2  | 503.3  | 511.2  | 523.3  | 534.0  | 552.5  | 563.9  | 579.6  |
| 55°    | 442.7  | 445.6  | 447.7  | 449.1  | 453.4  | 462.7  | 467.0  | 475.5  | 488.3  | 497.6  | 511.2  |
| 57.5°  | 401.4  | 402.8  | 404.9  | 405.6  | 406.4  | 412.1  | 415.6  | 417.8  | 430.6  | 439.9  | 451.3  |
| 60°    | 363.6  | 363.6  | 365.7  | 365.0  | 364.3  | 367.1  | 366.4  | 368.6  | 376.4  | 382.1  | 387.1  |
| 62.5°  | 327.9  | 327.9  | 328.7  | 327.2  | 326.5  | 326.5  | 323.7  | 325.8  | 327.9  | 328.7  | 332.2  |
| 65°    | 295.1  | 298.7  | 295.9  | 296.6  | 292.3  | 290.9  | 289.4  | 285.2  | 284.4  | 281.6  | 283.0  |
| 67.5°  | 265.9  | 268.8  | 265.9  | 265.9  | 262.3  | 259.5  | 255.9  | 248.8  | 246.7  | 241.0  | 239.5  |
| 70°    | 242.4  | 240.2  | 241.7  | 239.5  | 235.3  | 231.7  | 226.7  | 221.0  | 213.9  | 206.7  | 201.8  |
| 72.5°  | 219.6  | 219.6  | 218.1  | 216.0  | 213.9  | 206.7  | 201.0  | 194.6  | 186.1  | 176.8  | 169.7  |
| 75°    | 197.5  | 198.2  | 198.2  | 196.0  | 192.5  | 186.1  | 179.7  | 170.4  | 161.1  | 150.4  | 141.2  |
| 77.5°  | 181.8  | 181.8  | 181.8  | 178.2  | 174.7  | 169.0  | 161.1  | 151.1  | 141.2  | 128.3  | 117.6  |
| 80°    | 166.8  | 166.1  | 166.1  | 161.8  | 158.3  | 151.8  | 144.0  | 134.0  | 123.3  | 109.8  | 97.7   |
| 82.5°  | 154.7  | 154.0  | 152.6  | 149.0  | 144.0  | 137.6  | 129.7  | 119.1  | 107.6  | 95.5   | 80.6   |
| 85°    | 141.9  | 141.2  | 139.7  | 136.2  | 131.2  | 125.5  | 116.9  | 106.2  | 94.8   | 81.3   | 67.0   |
| 87.5°  | 130.5  | 129.7  | 127.6  | 125.5  | 119.8  | 113.4  | 104.8  | 94.8   | 82.7   | 69.9   | 55.6   |
| 90°    | 122.6  | 121.2  | 119.8  | 116.9  | 111.9  | 104.8  | 96.2   | 85.5   | 73.4   | 60.6   | 46.3   |
| 92.5°  | 113.4  | 112.6  | 110.5  | 107.6  | 103.4  | 96.2   | 87.7   | 77.7   | 65.6   | 53.5   | 39.9   |
| 95°    | 104.1  | 103.4  | 101.9  | 99.1   | 94.8   | 88.4   | 80.6   | 70.6   | 59.2   | 47.1   | 34.9   |
| 97.5°  | 95.5   | 95.5   | 93.4   | 91.3   | 86.3   | 81.3   | 73.4   | 64.2   | 53.5   | 42.8   | 31.4   |
| 100°   | 88.4   | 88.4   | 86.3   | 83.4   | 79.8   | 74.9   | 67.0   | 58.5   | 48.5   | 38.5   | 27.1   |
| 102.5° | 82.0   | 81.3   | 79.8   | 77.0   | 73.4   | 68.4   | 61.3   | 53.5   | 44.2   | 34.2   | 24.2   |
| 105°   | 76.3   | 75.6   | 74.1   | 71.3   | 68.4   | 62.7   | 57.0   | 49.2   | 39.9   | 30.7   | 21.4   |
| 107.5° | 70.6   | 69.9   | 69.2   | 66.3   | 62.7   | 57.7   | 52.0   | 44.2   | 36.4   | 27.8   | 19.2   |
| 110°   | 65.6   | 64.9   | 63.4   | 60.6   | 57.0   | 52.8   | 47.1   | 40.6   | 32.8   | 25.0   | 17.1   |

TEST NUMBER: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 61.3 | 60.6 | 59.2 | 56.3 | 53.5 | 48.5 | 43.5 | 36.4 | 29.9 | 22.8 | 15.0 |
| 115°   | 57.0 | 56.3 | 54.9 | 52.0 | 48.5 | 44.2 | 39.2 | 33.5 | 26.4 | 20.0 | 13.5 |
| 117.5° | 52.8 | 52.0 | 50.6 | 48.5 | 44.9 | 40.6 | 35.6 | 29.9 | 23.5 | 18.5 | 12.1 |
| 120°   | 49.2 | 47.8 | 46.3 | 44.2 | 40.6 | 37.1 | 32.1 | 27.1 | 21.4 | 16.4 | 10.7 |
| 122.5° | 45.6 | 44.2 | 42.8 | 40.6 | 37.1 | 33.5 | 28.5 | 24.2 | 20.0 | 15.0 | 10.0 |
| 125°   | 41.3 | 40.6 | 39.2 | 37.1 | 33.5 | 29.9 | 26.4 | 22.1 | 17.8 | 13.5 | 8.6  |
| 127.5° | 37.8 | 37.1 | 35.6 | 32.8 | 29.9 | 27.1 | 23.5 | 20.0 | 15.7 | 11.4 | 7.8  |
| 130°   | 34.9 | 33.5 | 32.1 | 29.9 | 27.8 | 25.0 | 21.4 | 17.8 | 14.3 | 10.0 | 7.1  |
| 132.5° | 31.4 | 29.9 | 28.5 | 27.1 | 25.0 | 22.1 | 19.2 | 15.7 | 12.8 | 9.3  | 6.4  |
| 135°   | 28.5 | 27.1 | 25.7 | 24.2 | 22.1 | 20.0 | 17.1 | 14.3 | 11.4 | 8.6  | 5.7  |
| 137.5° | 25.0 | 24.2 | 23.5 | 22.1 | 20.0 | 17.8 | 15.7 | 12.1 | 10.0 | 7.8  | 5.0  |
| 140°   | 22.8 | 22.1 | 21.4 | 19.2 | 17.8 | 15.7 | 13.5 | 10.7 | 8.6  | 6.4  | 4.3  |
| 142.5° | 20.7 | 20.0 | 18.5 | 17.1 | 15.7 | 14.3 | 11.4 | 10.0 | 7.8  | 5.7  | 4.3  |
| 145°   | 17.8 | 17.1 | 16.4 | 15.0 | 13.5 | 11.4 | 10.0 | 8.6  | 7.1  | 5.0  | 3.6  |
| 147.5° | 16.4 | 15.7 | 14.3 | 12.8 | 11.4 | 10.0 | 9.3  | 7.8  | 5.7  | 4.3  | 2.9  |
| 150°   | 13.5 | 12.8 | 12.1 | 10.7 | 10.0 | 9.3  | 7.8  | 6.4  | 5.0  | 3.6  | 2.9  |
| 152.5° | 11.4 | 10.7 | 10.0 | 10.0 | 8.6  | 7.8  | 6.4  | 5.7  | 4.3  | 3.6  | 2.1  |
| 155°   | 10.0 | 10.0 | 9.3  | 8.6  | 7.1  | 6.4  | 5.7  | 4.3  | 3.6  | 2.9  | 2.1  |
| 157.5° | 8.6  | 7.8  | 7.1  | 7.1  | 6.4  | 5.7  | 4.3  | 3.6  | 2.9  | 2.9  | 2.1  |
| 160°   | 7.1  | 6.4  | 6.4  | 5.7  | 5.0  | 4.3  | 3.6  | 3.6  | 2.9  | 2.1  | 2.1  |
| 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: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 |
| 2.5°   | 1298.2 | 1290.4 | 1297.5 | 1306.8 | 1306.8 | 1305.3 | 1303.9 | 1306.8 | 1313.9 | 1311.0 | 1302.5 |
| 5°     | 1296.1 | 1288.2 | 1294.6 | 1303.9 | 1303.9 | 1301.8 | 1300.3 | 1302.5 | 1310.3 | 1306.8 | 1298.9 |
| 7.5°   | 1291.8 | 1284.7 | 1288.9 | 1297.5 | 1297.5 | 1295.4 | 1293.9 | 1296.8 | 1303.2 | 1299.6 | 1291.1 |
| 10°    | 1283.9 | 1276.1 | 1281.1 | 1288.9 | 1288.2 | 1286.8 | 1284.7 | 1288.2 | 1293.9 | 1288.9 | 1279.0 |
| 12.5°  | 1274.0 | 1266.1 | 1270.4 | 1277.5 | 1276.8 | 1274.0 | 1272.5 | 1274.7 | 1279.7 | 1276.8 | 1266.1 |
| 15°    | 1260.4 | 1252.6 | 1256.1 | 1263.3 | 1261.1 | 1259.0 | 1256.1 | 1256.9 | 1263.3 | 1258.3 | 1246.9 |
| 17.5°  | 1244.0 | 1235.5 | 1238.3 | 1244.7 | 1242.6 | 1240.5 | 1236.9 | 1237.6 | 1244.7 | 1237.6 | 1225.5 |
| 20°    | 1224.1 | 1214.8 | 1216.9 | 1224.8 | 1221.2 | 1217.6 | 1214.1 | 1214.1 | 1221.2 | 1213.4 | 1199.8 |
| 22.5°  | 1202.7 | 1193.4 | 1194.8 | 1200.5 | 1197.7 | 1191.3 | 1187.7 | 1189.8 | 1193.4 | 1183.4 | 1169.2 |
| 25°    | 1176.3 | 1164.2 | 1166.3 | 1172.0 | 1169.9 | 1161.3 | 1157.8 | 1159.2 | 1157.8 | 1149.9 | 1134.9 |
| 27.5°  | 1145.6 | 1132.8 | 1134.2 | 1137.8 | 1134.9 | 1127.1 | 1122.8 | 1123.5 | 1120.7 | 1110.7 | 1093.6 |
| 30°    | 1107.1 | 1100.7 | 1100.0 | 1102.2 | 1097.9 | 1090.0 | 1085.0 | 1083.6 | 1082.9 | 1068.6 | 1048.0 |
| 32.5°  | 1067.9 | 1062.2 | 1058.7 | 1061.5 | 1056.5 | 1048.7 | 1040.1 | 1040.1 | 1033.0 | 1019.5 | 1001.6 |
| 35°    | 1028.0 | 1018.7 | 1015.2 | 1017.3 | 1011.6 | 1001.6 | 994.5  | 990.9  | 980.2  | 963.1  | 943.9  |
| 37.5°  | 976.7  | 970.3  | 966.0  | 968.1  | 961.7  | 954.6  | 941.0  | 937.5  | 926.1  | 902.5  | 878.3  |
| 40°    | 921.1  | 916.1  | 911.8  | 913.9  | 906.8  | 896.1  | 884.0  | 878.3  | 865.5  | 839.1  | 819.8  |
| 42.5°  | 861.2  | 859.1  | 854.1  | 861.9  | 847.6  | 837.0  | 824.8  | 815.6  | 802.7  | 774.2  | 752.1  |
| 45°    | 797.7  | 802.7  | 791.3  | 793.5  | 784.2  | 774.9  | 762.1  | 748.6  | 735.7  | 708.6  | 683.7  |
| 47.5°  | 730.7  | 734.3  | 726.5  | 727.9  | 717.9  | 709.3  | 697.9  | 680.8  | 666.6  | 643.0  | 620.9  |
| 50°    | 661.6  | 660.2  | 660.2  | 658.7  | 650.9  | 640.2  | 628.8  | 613.1  | 598.8  | 577.5  | 558.9  |
| 52.5°  | 588.1  | 591.0  | 592.4  | 596.0  | 586.0  | 579.6  | 561.8  | 548.2  | 537.5  | 515.4  | 499.7  |
| 55°    | 517.6  | 527.6  | 524.7  | 526.1  | 514.7  | 509.7  | 495.5  | 484.8  | 469.1  | 456.3  | 446.3  |
| 57.5°  | 453.4  | 455.5  | 457.0  | 459.1  | 454.1  | 444.1  | 432.7  | 424.2  | 412.1  | 401.4  | 394.2  |
| 60°    | 391.4  | 391.4  | 392.1  | 395.7  | 390.7  | 382.1  | 373.6  | 367.1  | 358.6  | 352.2  | 347.9  |
| 62.5°  | 332.9  | 337.9  | 338.6  | 335.8  | 329.4  | 325.1  | 319.4  | 315.8  | 310.1  | 308.0  | 306.6  |
| 65°    | 278.7  | 278.7  | 278.7  | 280.2  | 276.6  | 273.8  | 270.2  | 269.5  | 271.6  | 268.8  | 270.2  |
| 67.5°  | 233.1  | 231.0  | 229.6  | 230.3  | 228.8  | 227.4  | 226.7  | 228.8  | 233.1  | 233.1  | 236.7  |
| 70°    | 193.9  | 189.6  | 186.8  | 186.8  | 186.8  | 187.5  | 189.6  | 193.9  | 201.0  | 203.9  | 208.9  |
| 72.5°  | 161.8  | 152.6  | 148.3  | 148.3  | 149.0  | 151.8  | 158.3  | 166.1  | 172.5  | 178.2  | 184.6  |
| 75°    | 131.2  | 121.9  | 115.5  | 114.8  | 116.2  | 120.5  | 129.7  | 136.9  | 147.6  | 155.4  | 163.3  |
| 77.5°  | 106.2  | 94.8   | 87.0   | 86.3   | 88.4   | 94.8   | 106.2  | 115.5  | 127.6  | 136.2  | 144.7  |
| 80°    | 84.8   | 72.0   | 65.6   | 61.3   | 64.9   | 72.7   | 85.5   | 97.0   | 108.4  | 119.8  | 130.5  |
| 82.5°  | 67.7   | 55.6   | 45.6   | 41.3   | 45.6   | 56.3   | 68.4   | 82.0   | 93.4   | 105.5  | 116.2  |
| 85°    | 53.5   | 40.6   | 29.2   | 25.0   | 29.9   | 41.3   | 54.9   | 68.4   | 81.3   | 93.4   | 104.1  |
| 87.5°  | 42.1   | 29.2   | 17.8   | 12.1   | 18.5   | 30.7   | 43.5   | 57.0   | 70.6   | 82.7   | 93.4   |
| 90°    | 32.8   | 20.7   | 10.0   | 1.4    | 10.7   | 22.1   | 34.9   | 47.8   | 61.3   | 73.4   | 84.1   |
| 92.5°  | 27.8   | 15.7   | 5.7    | 0.0    | 6.4    | 16.4   | 28.5   | 41.3   | 53.5   | 65.6   | 76.3   |
| 95°    | 23.5   | 12.8   | 4.3    | 0.0    | 4.3    | 12.8   | 23.5   | 34.9   | 47.1   | 59.2   | 69.9   |
| 97.5°  | 20.0   | 10.0   | 2.9    | 0.0    | 2.9    | 10.0   | 19.2   | 30.7   | 41.3   | 52.8   | 62.7   |
| 100°   | 17.1   | 8.6    | 2.1    | 0.0    | 2.1    | 7.8    | 16.4   | 26.4   | 37.1   | 47.8   | 57.0   |
| 102.5° | 15.0   | 7.1    | 1.4    | 0.0    | 1.4    | 6.4    | 13.5   | 22.8   | 32.1   | 42.1   | 51.3   |
| 105°   | 12.8   | 5.7    | 1.4    | 0.0    | 0.7    | 5.0    | 11.4   | 20.0   | 28.5   | 37.8   | 46.3   |
| 107.5° | 11.4   | 5.0    | 1.4    | 0.0    | 0.7    | 4.3    | 10.0   | 17.1   | 25.7   | 33.5   | 41.3   |
| 110°   | 10.0   | 4.3    | 1.4    | 0.0    | 0.7    | 2.9    | 8.6    | 15.0   | 22.1   | 29.9   | 37.8   |

TEST NUMBER: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 8.6  | 3.6  | 0.7  | 0.0  | 0.0  | 2.1  | 7.1  | 12.8 | 19.2 | 27.1 | 33.5 |
| 115°   | 7.8  | 3.6  | 0.7  | 0.0  | 0.0  | 1.4  | 5.7  | 11.4 | 17.1 | 24.2 | 29.9 |
| 117.5° | 7.1  | 2.9  | 0.7  | 0.0  | 0.7  | 1.4  | 5.0  | 10.0 | 15.0 | 20.7 | 27.1 |
| 120°   | 6.4  | 2.9  | 0.7  | 0.0  | 0.7  | 0.7  | 3.6  | 8.6  | 12.8 | 18.5 | 23.5 |
| 122.5° | 5.7  | 2.9  | 0.7  | 0.0  | 0.7  | 0.7  | 2.9  | 7.1  | 11.4 | 16.4 | 20.7 |
| 125°   | 5.0  | 2.1  | 1.4  | 0.7  | 0.7  | 0.7  | 2.1  | 5.7  | 10.0 | 13.5 | 18.5 |
| 127.5° | 5.0  | 2.1  | 1.4  | 0.7  | 0.7  | 0.7  | 1.4  | 5.0  | 7.8  | 12.1 | 16.4 |
| 130°   | 4.3  | 2.1  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 3.6  | 7.1  | 10.0 | 13.5 |
| 132.5° | 3.6  | 2.1  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 2.1  | 5.0  | 8.6  | 11.4 |
| 135°   | 3.6  | 2.1  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 1.4  | 3.6  | 6.4  | 9.3  |
| 137.5° | 2.9  | 1.4  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 2.9  | 5.0  | 7.1  |
| 140°   | 2.9  | 1.4  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 2.1  | 3.6  | 5.7  |
| 142.5° | 2.1  | 1.4  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 1.4  | 2.9  | 4.3  |
| 145°   | 2.1  | 1.4  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 1.4  | 2.9  |
| 147.5° | 2.1  | 2.1  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 1.4  | 2.1  |
| 150°   | 2.1  | 1.4  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 1.4  |
| 152.5° | 2.1  | 1.4  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 1.4  |
| 155°   | 2.1  | 1.4  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 1.4  | 1.4  |
| 157.5° | 2.1  | 1.4  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 1.4  |
| 160°   | 2.1  | 1.4  | 1.4  | 0.7  | 1.4  | 0.7  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  |
| 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: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 |
| 2.5°   | 1299.6 | 1286.1 | 1293.2 | 1291.1 | 1293.9 | 1299.6 | 1298.9 | 1297.5 | 1297.5 | 1295.4 | 1292.5 |
| 5°     | 1295.4 | 1282.5 | 1288.9 | 1285.4 | 1288.9 | 1293.9 | 1293.2 | 1291.1 | 1292.5 | 1288.9 | 1285.4 |
| 7.5°   | 1286.8 | 1275.4 | 1281.1 | 1278.2 | 1281.1 | 1286.1 | 1283.9 | 1283.2 | 1284.7 | 1279.0 | 1276.8 |
| 10°    | 1276.8 | 1264.0 | 1270.4 | 1266.8 | 1270.4 | 1274.0 | 1272.5 | 1269.7 | 1272.5 | 1266.8 | 1264.7 |
| 12.5°  | 1261.1 | 1250.4 | 1254.7 | 1253.3 | 1255.4 | 1259.0 | 1256.1 | 1254.0 | 1255.4 | 1250.4 | 1246.2 |
| 15°    | 1244.0 | 1233.3 | 1236.9 | 1234.8 | 1236.2 | 1240.5 | 1235.5 | 1234.8 | 1233.3 | 1228.3 | 1226.9 |
| 17.5°  | 1221.9 | 1211.9 | 1215.5 | 1211.9 | 1214.1 | 1212.7 | 1211.9 | 1208.4 | 1208.4 | 1202.7 | 1198.4 |
| 20°    | 1194.8 | 1186.3 | 1184.1 | 1181.3 | 1184.1 | 1181.3 | 1177.0 | 1174.2 | 1173.4 | 1167.7 | 1164.2 |
| 22.5°  | 1163.5 | 1153.5 | 1154.9 | 1147.1 | 1147.8 | 1143.5 | 1136.4 | 1133.5 | 1130.7 | 1124.3 | 1119.3 |
| 25°    | 1125.7 | 1115.7 | 1108.6 | 1103.6 | 1097.2 | 1096.5 | 1087.2 | 1080.1 | 1079.3 | 1071.5 | 1070.8 |
| 27.5°  | 1082.9 | 1071.5 | 1065.8 | 1053.7 | 1045.8 | 1039.4 | 1031.6 | 1024.4 | 1020.9 | 1012.3 | 1006.6 |
| 30°    | 1033.7 | 1020.9 | 1006.6 | 998.1  | 986.0  | 981.0  | 967.4  | 958.9  | 956.0  | 946.7  | 942.5  |
| 32.5°  | 978.1  | 964.6  | 953.2  | 936.8  | 923.2  | 916.1  | 902.5  | 894.0  | 890.4  | 880.4  | 874.7  |
| 35°    | 917.5  | 902.5  | 889.0  | 873.3  | 862.6  | 850.5  | 834.1  | 825.5  | 817.7  | 814.1  | 809.9  |
| 37.5°  | 854.1  | 837.7  | 822.0  | 806.3  | 797.0  | 782.8  | 768.5  | 762.8  | 753.5  | 750.0  | 745.7  |
| 40°    | 788.5  | 772.1  | 757.1  | 742.1  | 731.4  | 718.6  | 705.8  | 703.6  | 693.7  | 690.1  | 687.2  |
| 42.5°  | 723.6  | 706.5  | 689.4  | 678.7  | 670.8  | 658.0  | 649.5  | 647.3  | 638.8  | 636.6  | 636.6  |
| 45°    | 665.1  | 643.8  | 629.5  | 620.2  | 613.8  | 603.1  | 596.0  | 594.6  | 587.4  | 586.0  | 586.0  |
| 47.5°  | 602.4  | 582.4  | 571.8  | 566.0  | 560.3  | 552.5  | 548.2  | 548.2  | 541.1  | 539.7  | 539.0  |
| 50°    | 543.9  | 525.4  | 517.6  | 511.9  | 511.2  | 505.5  | 501.9  | 500.5  | 500.5  | 495.5  | 496.2  |
| 52.5°  | 488.3  | 479.1  | 472.7  | 469.1  | 464.8  | 461.3  | 458.4  | 458.4  | 456.3  | 452.7  | 454.1  |
| 55°    | 437.0  | 426.3  | 427.0  | 424.2  | 422.0  | 419.9  | 420.6  | 416.3  | 415.6  | 412.8  | 414.9  |
| 57.5°  | 385.7  | 385.7  | 384.3  | 382.1  | 378.6  | 380.0  | 380.0  | 380.0  | 376.4  | 374.3  | 376.4  |
| 60°    | 342.2  | 344.3  | 340.8  | 342.9  | 341.5  | 342.2  | 340.8  | 340.8  | 338.6  | 337.9  | 338.6  |
| 62.5°  | 303.7  | 307.3  | 305.8  | 308.7  | 307.3  | 308.0  | 309.4  | 306.6  | 305.1  | 303.7  | 305.1  |
| 65°    | 269.5  | 273.8  | 273.0  | 275.2  | 275.9  | 276.6  | 277.3  | 275.9  | 274.5  | 273.0  | 272.3  |
| 67.5°  | 239.5  | 243.8  | 246.7  | 247.4  | 248.1  | 250.2  | 249.5  | 248.1  | 246.7  | 244.5  | 243.8  |
| 70°    | 212.4  | 218.1  | 221.7  | 223.1  | 226.0  | 224.6  | 224.6  | 223.9  | 222.4  | 220.3  | 219.6  |
| 72.5°  | 189.6  | 196.0  | 199.6  | 201.0  | 203.9  | 203.9  | 203.2  | 202.5  | 201.0  | 198.9  | 198.2  |
| 75°    | 169.7  | 175.4  | 180.4  | 183.2  | 185.4  | 185.4  | 184.6  | 183.9  | 182.5  | 181.1  | 180.4  |
| 77.5°  | 154.0  | 159.0  | 163.3  | 166.8  | 168.2  | 169.0  | 168.2  | 166.8  | 166.8  | 166.1  | 165.4  |
| 80°    | 138.3  | 144.0  | 148.3  | 151.8  | 154.0  | 154.0  | 153.3  | 154.0  | 152.6  | 151.8  | 151.1  |
| 82.5°  | 124.8  | 131.2  | 136.2  | 139.7  | 141.2  | 141.9  | 141.2  | 141.9  | 140.4  | 140.4  | 140.4  |
| 85°    | 112.6  | 119.1  | 124.8  | 127.6  | 129.7  | 130.5  | 130.5  | 130.5  | 129.7  | 129.7  | 129.7  |
| 87.5°  | 102.7  | 109.1  | 114.8  | 117.6  | 119.8  | 120.5  | 120.5  | 121.2  | 119.8  | 119.8  | 119.8  |
| 90°    | 93.4   | 99.8   | 105.5  | 108.4  | 110.5  | 111.9  | 111.9  | 112.6  | 111.9  | 111.2  | 111.2  |
| 92.5°  | 84.8   | 92.0   | 97.7   | 100.5  | 102.7  | 104.8  | 104.8  | 105.5  | 104.1  | 104.1  | 104.1  |
| 95°    | 77.7   | 84.8   | 89.8   | 93.4   | 95.5   | 97.0   | 97.7   | 97.7   | 97.0   | 97.0   | 97.0   |
| 97.5°  | 71.3   | 77.7   | 82.7   | 86.3   | 88.4   | 89.1   | 89.8   | 90.5   | 89.8   | 89.8   | 89.8   |
| 100°   | 64.9   | 71.3   | 76.3   | 79.1   | 82.0   | 82.7   | 83.4   | 84.1   | 84.1   | 83.4   | 83.4   |
| 102.5° | 59.2   | 65.6   | 69.9   | 73.4   | 75.6   | 77.0   | 77.7   | 77.7   | 77.7   | 77.7   | 77.7   |
| 105°   | 53.5   | 59.9   | 64.2   | 67.7   | 69.9   | 71.3   | 72.0   | 72.7   | 72.7   | 72.0   | 72.0   |
| 107.5° | 48.5   | 54.2   | 59.2   | 62.0   | 64.9   | 66.3   | 67.0   | 67.0   | 67.7   | 67.0   | 67.0   |
| 110°   | 43.5   | 49.9   | 54.2   | 57.0   | 59.9   | 61.3   | 62.0   | 62.7   | 62.7   | 62.7   | 62.7   |



TEST NUMBER: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 39.9 | 44.9 | 49.2 | 52.0 | 54.9 | 56.3 | 57.0 | 57.7 | 58.5 | 57.7 | 57.7 |
| 115°   | 35.6 | 40.6 | 44.9 | 47.8 | 49.9 | 51.3 | 52.8 | 53.5 | 53.5 | 54.2 | 53.5 |
| 117.5° | 32.1 | 36.4 | 40.6 | 43.5 | 45.6 | 47.8 | 48.5 | 49.2 | 49.9 | 49.2 | 49.2 |
| 120°   | 28.5 | 32.8 | 36.4 | 39.2 | 41.3 | 43.5 | 44.2 | 44.9 | 45.6 | 44.9 | 44.9 |
| 122.5° | 25.7 | 29.2 | 32.8 | 35.6 | 37.8 | 39.2 | 40.6 | 40.6 | 41.3 | 41.3 | 41.3 |
| 125°   | 22.8 | 26.4 | 29.2 | 32.1 | 34.2 | 35.6 | 36.4 | 37.1 | 37.1 | 37.8 | 37.8 |
| 127.5° | 20.0 | 22.8 | 26.4 | 28.5 | 30.7 | 32.1 | 32.8 | 33.5 | 33.5 | 34.2 | 34.2 |
| 130°   | 17.1 | 20.0 | 22.8 | 25.0 | 27.1 | 28.5 | 29.2 | 29.9 | 30.7 | 30.7 | 30.7 |
| 132.5° | 15.0 | 17.8 | 20.0 | 22.1 | 23.5 | 25.0 | 26.4 | 27.1 | 27.1 | 27.1 | 27.1 |
| 135°   | 12.1 | 15.0 | 17.1 | 19.2 | 20.7 | 22.1 | 22.8 | 24.2 | 24.2 | 24.2 | 24.2 |
| 137.5° | 10.0 | 12.8 | 15.0 | 16.4 | 17.8 | 19.2 | 20.0 | 20.7 | 21.4 | 21.4 | 21.4 |
| 140°   | 7.8  | 10.0 | 12.1 | 14.3 | 15.7 | 16.4 | 17.8 | 17.8 | 18.5 | 18.5 | 18.5 |
| 142.5° | 5.7  | 7.8  | 9.3  | 11.4 | 12.8 | 14.3 | 15.0 | 15.7 | 15.7 | 15.7 | 15.7 |
| 145°   | 4.3  | 5.7  | 7.1  | 8.6  | 10.7 | 11.4 | 12.1 | 12.8 | 13.5 | 13.5 | 13.5 |
| 147.5° | 2.9  | 4.3  | 5.0  | 6.4  | 7.8  | 9.3  | 10.0 | 10.7 | 11.4 | 11.4 | 11.4 |
| 150°   | 2.1  | 2.9  | 4.3  | 5.0  | 5.7  | 7.1  | 8.6  | 8.6  | 9.3  | 9.3  | 8.6  |
| 152.5° | 1.4  | 2.1  | 2.9  | 3.6  | 4.3  | 5.0  | 6.4  | 6.4  | 7.1  | 7.1  | 7.1  |
| 155°   | 1.4  | 1.4  | 1.4  | 2.1  | 2.9  | 3.6  | 4.3  | 5.0  | 5.0  | 5.0  | 5.0  |
| 157.5° | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 2.1  | 2.9  | 3.6  | 3.6  | 3.6  | 3.6  |
| 160°   | 1.4  | 1.4  | 0.7  | 0.7  | 1.4  | 1.4  | 1.4  | 1.4  | 2.1  | 2.1  | 2.1  |
| 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: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 |
| 2.5°   | 1294.6 | 1296.1 | 1296.1 | 1294.6 | 1293.9 | 1296.8 | 1293.2 | 1279.7 | 1283.9 | 1285.4 | 1289.6 |
| 5°     | 1288.2 | 1289.6 | 1289.6 | 1289.6 | 1288.2 | 1291.1 | 1287.5 | 1274.0 | 1279.0 | 1281.1 | 1283.9 |
| 7.5°   | 1279.0 | 1279.7 | 1281.1 | 1280.4 | 1279.0 | 1283.2 | 1279.7 | 1266.1 | 1269.7 | 1273.3 | 1276.8 |
| 10°    | 1266.8 | 1266.8 | 1267.5 | 1269.0 | 1267.5 | 1271.1 | 1267.5 | 1255.4 | 1259.0 | 1261.1 | 1265.4 |
| 12.5°  | 1250.4 | 1251.9 | 1252.6 | 1251.9 | 1251.2 | 1254.0 | 1252.6 | 1241.2 | 1242.6 | 1246.9 | 1251.2 |
| 15°    | 1228.3 | 1228.3 | 1231.9 | 1230.5 | 1230.5 | 1233.3 | 1234.8 | 1221.9 | 1224.1 | 1230.5 | 1234.8 |
| 17.5°  | 1201.2 | 1202.0 | 1204.8 | 1206.2 | 1205.5 | 1210.5 | 1211.2 | 1201.2 | 1200.5 | 1208.4 | 1212.7 |
| 20°    | 1166.3 | 1167.7 | 1171.3 | 1174.2 | 1174.2 | 1179.9 | 1182.0 | 1175.6 | 1176.3 | 1184.9 | 1186.3 |
| 22.5°  | 1123.5 | 1123.5 | 1130.0 | 1134.2 | 1137.8 | 1141.4 | 1147.8 | 1142.1 | 1142.1 | 1153.5 | 1159.9 |
| 25°    | 1070.8 | 1075.8 | 1077.9 | 1086.5 | 1091.5 | 1101.4 | 1107.1 | 1107.9 | 1108.6 | 1119.3 | 1123.5 |
| 27.5°  | 1012.3 | 1013.8 | 1020.2 | 1030.2 | 1035.9 | 1045.1 | 1055.8 | 1058.0 | 1061.5 | 1075.8 | 1082.2 |
| 30°    | 946.0  | 950.3  | 953.2  | 967.4  | 975.3  | 987.4  | 1000.9 | 1005.9 | 1008.8 | 1028.0 | 1035.9 |
| 32.5°  | 878.3  | 879.7  | 891.8  | 899.7  | 909.0  | 921.8  | 937.5  | 946.7  | 952.4  | 972.4  | 983.8  |
| 35°    | 810.6  | 813.4  | 823.4  | 833.4  | 842.7  | 855.5  | 871.9  | 884.7  | 894.7  | 912.5  | 927.5  |
| 37.5°  | 748.6  | 755.7  | 757.8  | 767.8  | 774.9  | 787.8  | 799.2  | 817.7  | 827.7  | 846.2  | 865.5  |
| 40°    | 692.9  | 695.1  | 696.5  | 706.5  | 711.5  | 723.6  | 740.0  | 752.1  | 765.7  | 779.2  | 802.0  |
| 42.5°  | 638.1  | 639.5  | 641.6  | 647.3  | 653.0  | 661.6  | 673.7  | 685.8  | 700.1  | 720.0  | 735.0  |
| 45°    | 587.4  | 588.9  | 590.3  | 593.9  | 598.8  | 606.7  | 614.5  | 623.1  | 637.3  | 654.4  | 670.1  |
| 47.5°  | 540.4  | 543.2  | 543.2  | 543.9  | 547.5  | 553.9  | 559.6  | 570.3  | 578.2  | 587.4  | 605.3  |
| 50°    | 495.5  | 497.6  | 498.3  | 498.3  | 500.5  | 504.7  | 506.2  | 513.3  | 520.4  | 529.0  | 541.8  |
| 52.5°  | 453.4  | 453.4  | 452.7  | 455.5  | 455.5  | 458.4  | 459.1  | 463.4  | 468.4  | 477.6  | 483.4  |
| 55°    | 413.5  | 413.5  | 415.6  | 414.2  | 414.2  | 415.6  | 414.9  | 415.6  | 419.9  | 425.6  | 430.6  |
| 57.5°  | 375.0  | 374.3  | 376.4  | 375.0  | 374.3  | 375.7  | 377.1  | 374.3  | 375.0  | 380.7  | 380.7  |
| 60°    | 336.5  | 337.2  | 339.3  | 337.9  | 337.9  | 337.9  | 336.5  | 335.1  | 333.6  | 337.2  | 338.6  |
| 62.5°  | 305.8  | 303.7  | 305.8  | 303.7  | 305.1  | 304.4  | 303.0  | 300.1  | 300.8  | 299.4  | 298.0  |
| 65°    | 273.8  | 273.8  | 274.5  | 272.3  | 273.8  | 273.8  | 271.6  | 270.9  | 266.6  | 265.2  | 261.6  |
| 67.5°  | 246.0  | 246.0  | 246.7  | 245.2  | 245.2  | 246.0  | 243.8  | 241.7  | 237.4  | 235.3  | 230.3  |
| 70°    | 221.7  | 221.7  | 221.7  | 221.0  | 221.0  | 221.0  | 219.6  | 216.7  | 212.4  | 208.9  | 202.5  |
| 72.5°  | 199.6  | 200.3  | 199.6  | 199.6  | 201.8  | 199.6  | 197.5  | 194.6  | 191.1  | 183.9  | 178.2  |
| 75°    | 181.8  | 182.5  | 181.8  | 181.8  | 181.8  | 181.1  | 180.4  | 176.1  | 171.8  | 166.1  | 157.6  |
| 77.5°  | 166.1  | 166.1  | 166.8  | 166.1  | 166.1  | 165.4  | 163.3  | 159.7  | 154.7  | 149.7  | 139.7  |
| 80°    | 151.1  | 151.8  | 152.6  | 153.3  | 151.8  | 151.1  | 149.0  | 146.1  | 139.7  | 134.0  | 124.0  |
| 82.5°  | 140.4  | 139.7  | 140.4  | 141.2  | 139.7  | 139.0  | 136.9  | 133.3  | 128.3  | 120.5  | 110.5  |
| 85°    | 129.7  | 129.0  | 129.0  | 129.7  | 129.0  | 127.6  | 125.5  | 121.9  | 116.9  | 109.1  | 99.1   |
| 87.5°  | 119.1  | 119.8  | 120.5  | 119.8  | 119.1  | 117.6  | 115.5  | 111.9  | 106.2  | 99.8   | 89.1   |
| 90°    | 111.2  | 111.2  | 111.2  | 111.2  | 110.5  | 109.1  | 106.9  | 102.7  | 97.7   | 89.8   | 80.6   |
| 92.5°  | 104.1  | 104.1  | 104.1  | 104.1  | 103.4  | 101.2  | 99.1   | 95.5   | 89.8   | 82.0   | 73.4   |
| 95°    | 97.0   | 97.7   | 97.0   | 97.0   | 95.5   | 94.8   | 91.3   | 87.7   | 82.7   | 74.9   | 65.6   |
| 97.5°  | 89.1   | 89.8   | 89.1   | 89.1   | 88.4   | 87.0   | 84.8   | 80.6   | 75.6   | 68.4   | 59.9   |
| 100°   | 83.4   | 83.4   | 82.7   | 82.7   | 82.0   | 80.6   | 77.7   | 74.1   | 69.2   | 62.0   | 53.5   |
| 102.5° | 77.0   | 77.7   | 77.0   | 77.0   | 75.6   | 74.1   | 72.0   | 68.4   | 63.4   | 56.3   | 48.5   |
| 105°   | 72.0   | 72.0   | 71.3   | 71.3   | 69.9   | 68.4   | 66.3   | 62.0   | 57.7   | 51.3   | 43.5   |
| 107.5° | 67.0   | 67.0   | 66.3   | 66.3   | 64.9   | 63.4   | 60.6   | 57.0   | 52.8   | 46.3   | 39.2   |
| 110°   | 62.0   | 62.0   | 62.0   | 61.3   | 59.9   | 57.7   | 55.6   | 52.0   | 47.8   | 42.1   | 34.9   |



TEST NUMBER: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 58.5 | 57.7 | 57.0 | 56.3 | 54.9 | 53.5 | 50.6 | 47.1 | 42.8 | 37.8 | 31.4 |
| 115°   | 53.5 | 53.5 | 52.8 | 52.0 | 50.6 | 48.5 | 46.3 | 43.5 | 39.2 | 33.5 | 27.8 |
| 117.5° | 49.2 | 49.2 | 48.5 | 47.8 | 46.3 | 44.2 | 42.1 | 39.2 | 34.9 | 29.9 | 25.0 |
| 120°   | 44.9 | 44.9 | 44.2 | 43.5 | 42.1 | 39.9 | 38.5 | 34.9 | 31.4 | 26.4 | 22.1 |
| 122.5° | 41.3 | 40.6 | 40.6 | 39.2 | 38.5 | 36.4 | 34.2 | 31.4 | 27.8 | 23.5 | 19.2 |
| 125°   | 37.1 | 37.1 | 36.4 | 35.6 | 34.9 | 32.8 | 30.7 | 27.8 | 24.2 | 20.7 | 17.1 |
| 127.5° | 33.5 | 33.5 | 32.8 | 32.1 | 31.4 | 29.2 | 27.1 | 25.0 | 21.4 | 17.8 | 14.3 |
| 130°   | 29.9 | 29.9 | 29.2 | 28.5 | 27.8 | 25.7 | 24.2 | 21.4 | 18.5 | 15.7 | 12.1 |
| 132.5° | 27.1 | 27.1 | 26.4 | 25.7 | 24.2 | 22.8 | 21.4 | 18.5 | 16.4 | 13.5 | 10.7 |
| 135°   | 24.2 | 23.5 | 23.5 | 22.8 | 21.4 | 20.0 | 18.5 | 16.4 | 13.5 | 11.4 | 8.6  |
| 137.5° | 21.4 | 20.7 | 20.0 | 19.2 | 18.5 | 17.1 | 15.7 | 14.3 | 12.1 | 9.3  | 7.1  |
| 140°   | 18.5 | 17.8 | 17.8 | 17.1 | 15.7 | 15.0 | 13.5 | 11.4 | 10.0 | 7.8  | 5.7  |
| 142.5° | 15.7 | 15.7 | 15.0 | 14.3 | 13.5 | 12.8 | 11.4 | 10.0 | 7.8  | 6.4  | 4.3  |
| 145°   | 13.5 | 12.8 | 12.8 | 12.1 | 11.4 | 10.0 | 9.3  | 7.8  | 6.4  | 5.0  | 3.6  |
| 147.5° | 10.7 | 10.7 | 10.7 | 10.0 | 9.3  | 8.6  | 7.8  | 6.4  | 5.0  | 3.6  | 2.1  |
| 150°   | 8.6  | 8.6  | 8.6  | 7.8  | 7.1  | 6.4  | 5.7  | 5.0  | 3.6  | 2.1  | 1.4  |
| 152.5° | 7.1  | 7.1  | 6.4  | 6.4  | 5.7  | 5.0  | 4.3  | 3.6  | 2.1  | 1.4  | 1.4  |
| 155°   | 5.0  | 5.0  | 5.0  | 4.3  | 4.3  | 3.6  | 2.9  | 2.1  | 1.4  | 1.4  | 1.4  |
| 157.5° | 3.6  | 3.6  | 3.6  | 2.9  | 2.9  | 2.1  | 2.1  | 1.4  | 1.4  | 1.4  | 1.4  |
| 160°   | 2.1  | 2.1  | 2.1  | 2.1  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  |
| 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: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 | 1296.1 |
| 2.5°   | 1287.5 | 1286.8 | 1292.5 | 1292.5 | 1286.1 | 1296.1 | 1306.8 |
| 5°     | 1283.2 | 1282.5 | 1288.2 | 1288.2 | 1282.5 | 1292.5 | 1303.9 |
| 7.5°   | 1274.7 | 1275.4 | 1281.1 | 1282.5 | 1275.4 | 1284.7 | 1296.8 |
| 10°    | 1265.4 | 1264.7 | 1271.1 | 1272.5 | 1266.8 | 1275.4 | 1286.8 |
| 12.5°  | 1250.4 | 1250.4 | 1256.9 | 1259.0 | 1253.3 | 1263.3 | 1274.0 |
| 15°    | 1234.8 | 1234.8 | 1239.0 | 1242.6 | 1237.6 | 1246.9 | 1257.6 |
| 17.5°  | 1214.8 | 1214.1 | 1218.4 | 1222.6 | 1217.6 | 1227.6 | 1239.0 |
| 20°    | 1189.1 | 1189.1 | 1194.1 | 1199.1 | 1195.5 | 1204.8 | 1217.6 |
| 22.5°  | 1162.0 | 1159.2 | 1167.7 | 1171.3 | 1169.2 | 1178.4 | 1191.3 |
| 25°    | 1127.8 | 1127.1 | 1135.7 | 1140.7 | 1137.8 | 1147.8 | 1159.2 |
| 27.5°  | 1090.7 | 1090.0 | 1098.6 | 1105.0 | 1103.6 | 1112.8 | 1125.7 |
| 30°    | 1045.8 | 1049.4 | 1057.2 | 1067.9 | 1064.4 | 1074.4 | 1087.9 |
| 32.5°  | 998.8  | 1002.3 | 1011.6 | 1023.0 | 1023.7 | 1031.6 | 1045.1 |
| 35°    | 942.5  | 951.7  | 958.1  | 973.1  | 976.0  | 983.8  | 998.1  |
| 37.5°  | 883.3  | 894.0  | 907.5  | 918.9  | 924.6  | 931.1  | 947.5  |
| 40°    | 817.0  | 832.7  | 847.6  | 861.2  | 868.3  | 874.7  | 890.4  |
| 42.5°  | 757.1  | 769.2  | 783.5  | 797.0  | 809.9  | 815.6  | 832.0  |
| 45°    | 689.4  | 703.6  | 716.5  | 732.9  | 745.7  | 752.1  | 768.5  |
| 47.5°  | 623.1  | 637.3  | 654.4  | 665.9  | 679.4  | 685.8  | 701.5  |
| 50°    | 559.6  | 572.5  | 586.7  | 600.3  | 611.7  | 617.4  | 630.9  |
| 52.5°  | 496.9  | 510.4  | 524.0  | 532.5  | 544.7  | 548.9  | 560.3  |
| 55°    | 441.3  | 450.6  | 462.7  | 467.7  | 479.8  | 482.6  | 490.5  |
| 57.5°  | 387.8  | 394.2  | 398.5  | 407.1  | 415.6  | 422.0  | 431.3  |
| 60°    | 339.3  | 342.2  | 345.0  | 350.0  | 357.2  | 359.3  | 362.9  |
| 62.5°  | 295.9  | 295.1  | 300.8  | 302.3  | 303.0  | 310.1  | 306.6  |
| 65°    | 257.4  | 258.1  | 253.1  | 250.9  | 253.8  | 255.9  | 254.5  |
| 67.5°  | 225.3  | 221.0  | 216.7  | 211.7  | 207.5  | 209.6  | 207.5  |
| 70°    | 193.9  | 190.3  | 183.2  | 176.1  | 173.2  | 169.0  | 166.8  |
| 72.5°  | 169.0  | 160.4  | 153.3  | 144.0  | 139.0  | 134.0  | 130.5  |
| 75°    | 149.7  | 137.6  | 127.6  | 117.6  | 110.5  | 103.4  | 101.9  |
| 77.5°  | 129.7  | 118.3  | 106.9  | 96.2   | 85.5   | 77.7   | 74.9   |
| 80°    | 114.1  | 103.4  | 89.8   | 77.0   | 65.6   | 55.6   | 52.0   |
| 82.5°  | 99.8   | 88.4   | 74.9   | 61.3   | 48.5   | 37.8   | 33.5   |
| 85°    | 87.7   | 75.6   | 62.0   | 48.5   | 35.6   | 24.2   | 18.5   |
| 87.5°  | 78.4   | 64.9   | 51.3   | 38.5   | 25.0   | 13.5   | 7.1    |
| 90°    | 69.9   | 57.0   | 44.2   | 30.7   | 17.8   | 7.1    | 0.0    |
| 92.5°  | 62.0   | 49.9   | 37.1   | 25.0   | 13.5   | 4.3    | 0.7    |
| 95°    | 54.9   | 44.2   | 31.4   | 20.0   | 10.0   | 2.9    | 0.7    |
| 97.5°  | 49.2   | 38.5   | 27.1   | 16.4   | 7.8    | 2.1    | 0.7    |
| 100°   | 44.2   | 33.5   | 23.5   | 13.5   | 6.4    | 1.4    | 0.7    |
| 102.5° | 39.2   | 29.9   | 20.0   | 11.4   | 5.0    | 0.7    | 0.7    |
| 105°   | 34.9   | 26.4   | 17.1   | 10.0   | 4.3    | 0.7    | 0.7    |
| 107.5° | 31.4   | 23.5   | 15.0   | 8.6    | 2.9    | 0.7    | 0.7    |
| 110°   | 27.8   | 20.0   | 12.8   | 7.1    | 2.1    | 0.7    | 0.7    |



TEST NUMBER: P1213067

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 25.0 | 17.8 | 11.4 | 5.7  | 1.4  | 0.7  | 0.7  |
| 115°   | 22.1 | 15.7 | 10.0 | 5.0  | 1.4  | 0.7  | 0.7  |
| 117.5° | 19.2 | 13.5 | 8.6  | 3.6  | 0.7  | 0.7  | 0.7  |
| 120°   | 17.1 | 12.1 | 7.1  | 2.9  | 0.7  | 0.7  | 0.7  |
| 122.5° | 15.0 | 10.0 | 5.7  | 2.1  | 0.7  | 0.7  | 0.7  |
| 125°   | 12.8 | 8.6  | 5.0  | 1.4  | 0.7  | 0.7  | 0.7  |
| 127.5° | 10.7 | 7.1  | 3.6  | 1.4  | 0.7  | 0.7  | 0.7  |
| 130°   | 9.3  | 5.7  | 2.9  | 0.7  | 0.7  | 0.7  | 0.7  |
| 132.5° | 7.8  | 4.3  | 2.1  | 0.7  | 0.7  | 0.7  | 0.7  |
| 135°   | 6.4  | 3.6  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  |
| 137.5° | 5.0  | 2.9  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  |
| 140°   | 3.6  | 2.1  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  |
| 142.5° | 2.9  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  |
| 145°   | 2.1  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  |
| 147.5° | 1.4  | 1.4  | 1.4  | 1.4  | 0.7  | 0.7  | 0.7  |
| 150°   | 1.4  | 1.4  | 0.7  | 0.7  | 1.4  | 0.7  | 0.7  |
| 152.5° | 1.4  | 0.7  | 0.7  | 0.7  | 1.4  | 0.7  | 0.7  |
| 155°   | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 0.7  |
| 157.5° | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  |
| 160°   | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  |
| 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)