

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: P1213508

Luminaire Tested: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)  
Test Lab: INNOVATIONS CENTER-P3  
Issue Date: 3/29/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

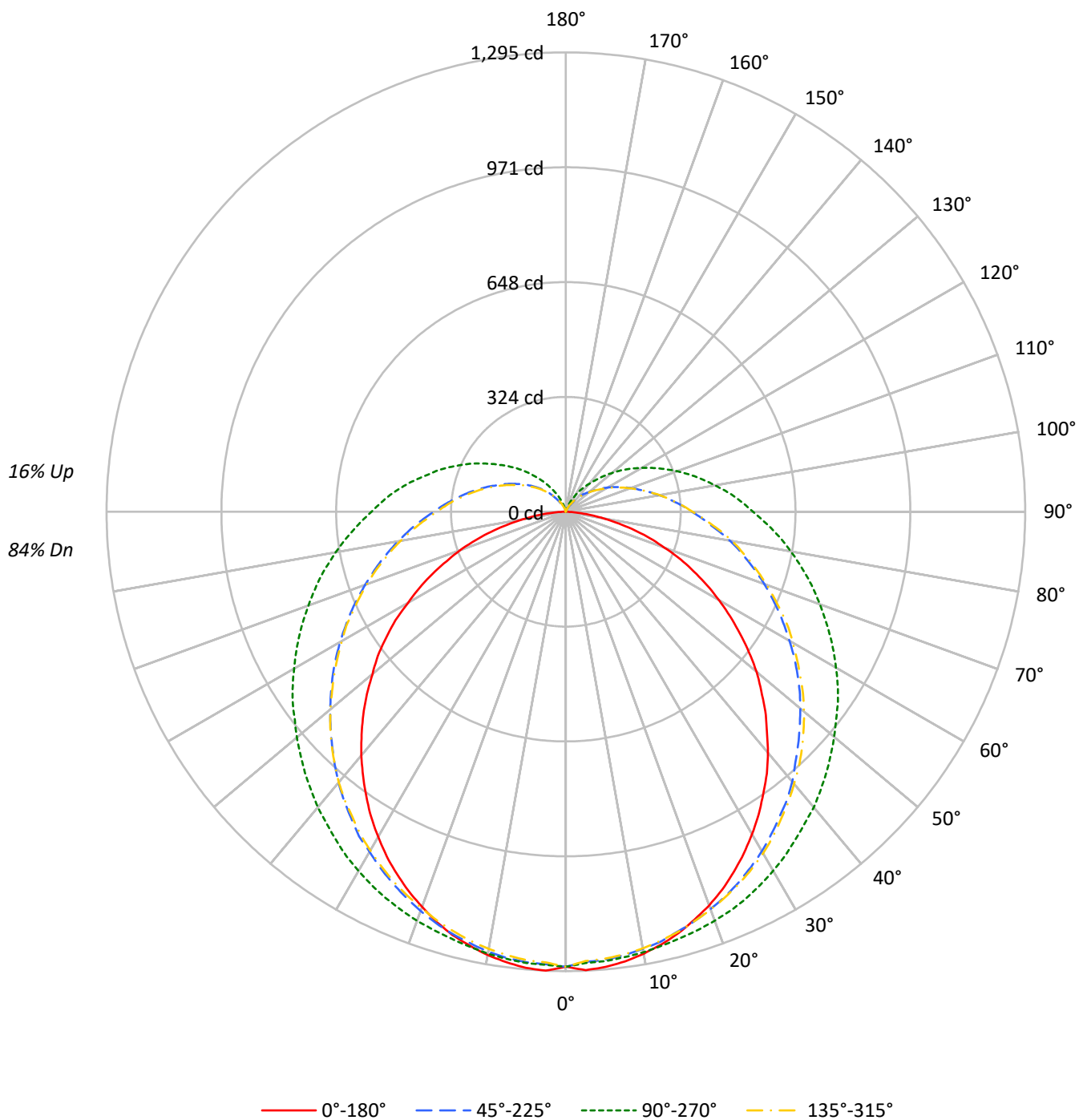
Lumens per Lamp: N/A  
Luminaire Lumens: 5572.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 62  
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: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213508

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

|     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |    | 20 |    |    |    | 20 |    |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |    | 30 |    |    |    | 10 |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 102 | 102 | 102 | 94 | 94 | 94 | 87 | 87 | 87 | 84 |    |    |
| 1   | 102 | 96  | 91  | 86  | 98  | 92  | 87  | 83  | 85  | 81  | 77  | 78 | 75 | 72 | 72 | 70 | 67 | 64 |    |    |
| 2   | 92  | 82  | 74  | 68  | 87  | 79  | 72  | 66  | 73  | 67  | 62  | 67 | 62 | 58 | 62 | 58 | 54 | 51 |    |    |
| 3   | 83  | 71  | 62  | 55  | 79  | 69  | 60  | 54  | 63  | 56  | 51  | 58 | 52 | 48 | 54 | 49 | 45 | 42 |    |    |
| 4   | 76  | 63  | 53  | 46  | 72  | 60  | 52  | 45  | 56  | 48  | 42  | 51 | 45 | 40 | 47 | 42 | 38 | 35 |    |    |
| 5   | 69  | 56  | 46  | 39  | 66  | 54  | 45  | 38  | 50  | 42  | 36  | 46 | 39 | 34 | 42 | 37 | 33 | 30 |    |    |
| 6   | 64  | 50  | 41  | 34  | 61  | 48  | 39  | 33  | 45  | 37  | 31  | 41 | 35 | 30 | 38 | 33 | 28 | 26 |    |    |
| 7   | 59  | 45  | 36  | 30  | 56  | 43  | 35  | 29  | 40  | 33  | 28  | 38 | 31 | 26 | 35 | 29 | 25 | 23 |    |    |
| 8   | 55  | 41  | 32  | 26  | 52  | 40  | 31  | 26  | 37  | 30  | 24  | 34 | 28 | 23 | 32 | 26 | 22 | 20 |    |    |
| 9   | 51  | 37  | 29  | 23  | 49  | 36  | 28  | 23  | 34  | 27  | 22  | 32 | 25 | 21 | 30 | 24 | 20 | 18 |    |    |
| 10  | 48  | 34  | 26  | 21  | 46  | 33  | 26  | 21  | 31  | 24  | 20  | 29 | 23 | 19 | 27 | 22 | 18 | 16 |    |    |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 10364 | 10364 | 10364 | 10364 |
| 5°  | 10419 | 9988  | 10441 | 10030 |
| 10° | 10322 | 9704  | 10356 | 9735  |
| 15° | 10202 | 9461  | 10248 | 9471  |
| 20° | 10042 | 9283  | 10077 | 9283  |
| 25° | 9845  | 9126  | 9904  | 9116  |
| 30° | 9622  | 8964  | 9696  | 8964  |
| 35° | 9364  | 8814  | 9469  | 8824  |
| 40° | 9109  | 8726  | 9220  | 8726  |
| 45° | 8816  | 8633  | 8951  | 8644  |
| 50° | 8510  | 8578  | 8625  | 8602  |
| 55° | 8083  | 8587  | 8339  | 8623  |
| 60° | 7634  | 8613  | 7882  | 8666  |
| 65° | 7127  | 8699  | 7442  | 8785  |
| 70° | 6417  | 8860  | 6917  | 8985  |
| 75° | 5598  | 9149  | 6129  | 9324  |
| 80° | 4333  | 9578  | 4922  | 9799  |
| 85° | 2589  | 10266 | 3238  | 10550 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 11795 cd/sqm

TEST NUMBER: P1213508

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.5  | 2.2       |
| 10°-20°   | 349.2  | 6.3       |
| 20°-30°   | 535.4  | 9.6       |
| 30°-40°   | 660.4  | 11.9      |
| 40°-50°   | 716.5  | 12.9      |
| 50°-60°   | 706.2  | 12.7      |
| 60°-70°   | 638.5  | 11.5      |
| 70°-80°   | 532.0  | 9.5       |
| 80°-90°   | 412.0  | 7.4       |
| 90°-100°  | 312.5  | 5.6       |
| 100°-110° | 231.2  | 4.2       |
| 110°-120° | 160.9  | 2.9       |
| 120°-130° | 102.6  | 1.8       |
| 130°-140° | 57.6   | 1.0       |
| 140°-150° | 26.3   | 0.5       |
| 150°-160° | 8.2    | 0.1       |
| 160°-170° | 1.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1006.0 | 18.1      |
| 0°-40°    | 1666.5 | 29.9      |
| 0°-60°    | 3089.3 | 55.4      |
| 0°-90°    | 4671.7 | 83.8      |
| 90°-120°  | 704.6  | 12.6      |
| 90°-150°  | 891.1  | 16.0      |
| 90°-180°  | 900.0  | 16.2      |
| 0°-180°   | 5572.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1282 | 1282 | 1282 | 1282 | 1282 |      |
| 5°   | 1288 | 1272 | 1291 | 1277 | 1288 | 122  |
| 15°  | 1230 | 1245 | 1235 | 1246 | 1230 | 346  |
| 25°  | 1120 | 1203 | 1127 | 1201 | 1120 | 516  |
| 35°  | 970  | 1128 | 981  | 1130 | 970  | 607  |
| 45°  | 796  | 1039 | 808  | 1040 | 796  | 613  |
| 55°  | 599  | 936  | 618  | 940  | 599  | 536  |
| 65°  | 398  | 821  | 415  | 829  | 398  | 394  |
| 75°  | 200  | 704  | 219  | 717  | 200  | 212  |
| 85°  | 38   | 586  | 47   | 602  | 38   | 46   |
| 90°  | 1    | 528  | 3    | 548  | 1    | 2    |
| 95°  | 1    | 479  | 1    | 502  | 1    | 1    |
| 105° | 1    | 380  | 1    | 403  | 1    | 1    |
| 115° | 1    | 290  | 1    | 315  | 1    | 1    |
| 125° | 1    | 208  | 1    | 231  | 1    | 1    |
| 135° | 1    | 135  | 1    | 160  | 1    | 1    |
| 145° | 1    | 78   | 1    | 96   | 1    | 1    |
| 155° | 1    | 32   | 1    | 45   | 1    | 1    |
| 165° | 1    | 5    | 1    | 8    | 1    | 0    |
| 175° | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5°   | 1293.3 | 1293.3 | 1292.0 | 1289.3 | 1290.6 | 1294.7 | 1292.0 | 1285.2 | 1281.2 | 1270.3 | 1273.0 |
| 5°     | 1287.9 | 1287.9 | 1286.6 | 1283.9 | 1285.2 | 1290.6 | 1287.9 | 1282.5 | 1277.1 | 1267.6 | 1271.7 |
| 7.5°   | 1278.5 | 1278.5 | 1277.1 | 1274.4 | 1277.1 | 1282.5 | 1279.8 | 1274.4 | 1270.3 | 1260.9 | 1264.9 |
| 10°    | 1264.9 | 1266.3 | 1264.9 | 1260.9 | 1266.3 | 1271.7 | 1270.3 | 1263.6 | 1259.5 | 1251.4 | 1255.5 |
| 12.5°  | 1248.7 | 1250.0 | 1248.7 | 1247.3 | 1250.0 | 1258.2 | 1255.5 | 1250.0 | 1247.3 | 1240.6 | 1244.6 |
| 15°    | 1229.7 | 1231.1 | 1228.4 | 1228.4 | 1231.1 | 1239.2 | 1239.2 | 1233.8 | 1231.1 | 1224.3 | 1232.5 |
| 17.5°  | 1205.4 | 1206.8 | 1205.4 | 1205.4 | 1208.1 | 1216.2 | 1217.6 | 1214.9 | 1212.2 | 1209.5 | 1217.6 |
| 20°    | 1181.0 | 1179.7 | 1179.7 | 1178.3 | 1183.8 | 1195.9 | 1194.6 | 1194.6 | 1191.9 | 1191.9 | 1201.3 |
| 22.5°  | 1152.6 | 1152.6 | 1151.3 | 1151.3 | 1158.0 | 1168.9 | 1168.9 | 1171.6 | 1168.9 | 1174.3 | 1182.4 |
| 25°    | 1120.2 | 1121.5 | 1120.2 | 1122.9 | 1128.3 | 1140.5 | 1141.8 | 1145.9 | 1147.2 | 1152.6 | 1162.1 |
| 27.5°  | 1086.3 | 1087.7 | 1086.3 | 1089.1 | 1098.5 | 1108.0 | 1114.8 | 1120.2 | 1121.5 | 1129.6 | 1141.8 |
| 30°    | 1049.8 | 1049.8 | 1051.2 | 1053.9 | 1064.7 | 1079.6 | 1085.0 | 1091.8 | 1091.8 | 1105.3 | 1117.5 |
| 32.5°  | 1011.9 | 1011.9 | 1011.9 | 1017.4 | 1029.5 | 1047.1 | 1053.9 | 1062.0 | 1064.7 | 1078.2 | 1091.8 |
| 35°    | 970.0  | 971.4  | 971.4  | 975.4  | 991.6  | 1009.2 | 1018.7 | 1028.2 | 1033.6 | 1049.8 | 1063.3 |
| 37.5°  | 930.8  | 933.5  | 929.4  | 934.8  | 957.8  | 972.7  | 983.5  | 993.0  | 1002.5 | 1024.1 | 1034.9 |
| 40°    | 886.1  | 888.8  | 887.5  | 898.3  | 917.2  | 936.2  | 948.4  | 957.8  | 971.4  | 993.0  | 1005.2 |
| 42.5°  | 838.8  | 841.5  | 844.2  | 856.4  | 876.7  | 895.6  | 910.5  | 922.7  | 938.9  | 957.8  | 978.1  |
| 45°    | 795.5  | 795.5  | 799.5  | 814.4  | 836.1  | 856.4  | 873.9  | 887.5  | 906.4  | 926.7  | 947.0  |
| 47.5°  | 746.8  | 748.1  | 753.5  | 771.1  | 794.1  | 818.5  | 834.7  | 852.3  | 872.6  | 894.2  | 917.2  |
| 50°    | 702.1  | 702.1  | 710.3  | 729.2  | 750.8  | 777.9  | 795.5  | 815.8  | 837.4  | 863.1  | 886.1  |
| 52.5°  | 650.7  | 653.4  | 665.6  | 683.2  | 711.6  | 736.0  | 756.2  | 777.9  | 803.6  | 830.7  | 856.4  |
| 55°    | 599.3  | 604.7  | 614.2  | 638.5  | 668.3  | 691.3  | 715.7  | 742.7  | 767.1  | 796.8  | 826.6  |
| 57.5°  | 549.3  | 553.3  | 568.2  | 592.6  | 623.7  | 652.1  | 677.8  | 703.5  | 733.2  | 763.0  | 794.1  |
| 60°    | 497.9  | 503.3  | 520.9  | 545.2  | 579.0  | 608.8  | 638.5  | 665.6  | 696.7  | 727.8  | 760.3  |
| 62.5°  | 449.1  | 453.2  | 473.5  | 501.9  | 535.7  | 568.2  | 598.0  | 630.4  | 664.3  | 694.0  | 726.5  |
| 65°    | 397.7  | 404.5  | 427.5  | 453.2  | 492.4  | 524.9  | 558.7  | 593.9  | 629.1  | 661.5  | 692.7  |
| 67.5°  | 350.4  | 354.4  | 378.8  | 408.6  | 447.8  | 484.3  | 519.5  | 557.4  | 593.9  | 627.7  | 658.8  |
| 70°    | 294.9  | 308.5  | 332.8  | 363.9  | 405.9  | 443.7  | 481.6  | 520.9  | 560.1  | 595.3  | 625.0  |
| 72.5°  | 248.9  | 259.7  | 286.8  | 320.6  | 361.2  | 405.9  | 445.1  | 487.0  | 526.3  | 562.8  | 593.9  |
| 75°    | 200.2  | 211.0  | 242.2  | 280.0  | 322.0  | 369.3  | 409.9  | 453.2  | 493.8  | 530.3  | 562.8  |
| 77.5°  | 152.9  | 166.4  | 200.2  | 239.5  | 285.5  | 334.2  | 376.1  | 419.4  | 461.3  | 500.6  | 533.0  |
| 80°    | 109.6  | 124.5  | 161.0  | 205.6  | 250.3  | 299.0  | 345.0  | 388.3  | 430.2  | 469.4  | 503.3  |
| 82.5°  | 70.3   | 86.6   | 125.8  | 170.5  | 217.8  | 266.5  | 313.9  | 357.2  | 399.1  | 438.3  | 473.5  |
| 85°    | 37.9   | 55.5   | 96.1   | 140.7  | 188.0  | 236.8  | 284.1  | 330.1  | 370.7  | 407.2  | 445.1  |
| 87.5°  | 10.8   | 32.5   | 71.7   | 116.3  | 165.0  | 209.7  | 255.7  | 301.7  | 342.3  | 381.5  | 415.3  |
| 90°    | 1.4    | 18.9   | 54.1   | 96.1   | 143.4  | 186.7  | 232.7  | 276.0  | 316.6  | 355.8  | 389.6  |
| 92.5°  | 1.4    | 12.2   | 41.9   | 79.8   | 123.1  | 167.8  | 213.8  | 255.7  | 293.6  | 332.8  | 366.6  |
| 95°    | 1.4    | 9.5    | 33.8   | 67.6   | 108.2  | 150.2  | 193.5  | 234.0  | 273.3  | 309.8  | 343.6  |
| 97.5°  | 1.4    | 6.8    | 27.1   | 58.2   | 94.7   | 133.9  | 175.9  | 216.5  | 254.3  | 289.5  | 320.6  |
| 100°   | 1.4    | 5.4    | 21.6   | 50.1   | 82.5   | 120.4  | 158.3  | 197.5  | 234.0  | 267.9  | 300.3  |
| 102.5° | 1.4    | 4.1    | 18.9   | 41.9   | 73.1   | 106.9  | 143.4  | 179.9  | 215.1  | 247.6  | 280.0  |
| 105°   | 1.4    | 4.1    | 16.2   | 36.5   | 64.9   | 96.1   | 129.9  | 165.0  | 197.5  | 228.6  | 258.4  |
| 107.5° | 1.4    | 2.7    | 13.5   | 31.1   | 56.8   | 86.6   | 117.7  | 151.5  | 181.3  | 211.0  | 239.5  |
| 110°   | 1.4    | 2.7    | 10.8   | 28.4   | 50.1   | 77.1   | 106.9  | 138.0  | 166.4  | 194.8  | 221.9  |

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CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15°  | 20°  | 25°  | 30°  | 35°   | 40°   | 45°   | 50°   |
|--------|-----|-----|-----|------|------|------|------|-------|-------|-------|-------|
| 112.5° | 1.4 | 2.7 | 9.5 | 24.4 | 43.3 | 69.0 | 96.1 | 124.5 | 151.5 | 179.9 | 204.3 |
| 115°   | 1.4 | 2.7 | 8.1 | 21.6 | 40.6 | 59.5 | 86.6 | 112.3 | 139.3 | 165.0 | 188.0 |
| 117.5° | 1.4 | 2.7 | 6.8 | 17.6 | 35.2 | 54.1 | 75.8 | 101.5 | 125.8 | 150.2 | 171.8 |
| 120°   | 1.4 | 2.7 | 5.4 | 16.2 | 31.1 | 48.7 | 67.6 | 90.6  | 113.6 | 136.6 | 159.6 |
| 122.5° | 1.4 | 1.4 | 5.4 | 13.5 | 27.1 | 43.3 | 62.2 | 79.8  | 101.5 | 123.1 | 143.4 |
| 125°   | 1.4 | 1.4 | 5.4 | 12.2 | 23.0 | 39.2 | 55.5 | 71.7  | 90.6  | 109.6 | 127.2 |
| 127.5° | 1.4 | 1.4 | 4.1 | 9.5  | 20.3 | 33.8 | 48.7 | 66.3  | 79.8  | 97.4  | 115.0 |
| 130°   | 1.4 | 1.4 | 4.1 | 8.1  | 17.6 | 28.4 | 43.3 | 58.2  | 74.4  | 86.6  | 101.5 |
| 132.5° | 1.4 | 1.4 | 4.1 | 6.8  | 13.5 | 23.0 | 36.5 | 50.1  | 64.9  | 78.5  | 90.6  |
| 135°   | 1.4 | 1.4 | 2.7 | 5.4  | 10.8 | 18.9 | 29.8 | 41.9  | 56.8  | 70.3  | 82.5  |
| 137.5° | 1.4 | 1.4 | 2.7 | 5.4  | 8.1  | 16.2 | 23.0 | 33.8  | 47.4  | 59.5  | 71.7  |
| 140°   | 1.4 | 1.4 | 2.7 | 4.1  | 6.8  | 12.2 | 18.9 | 27.1  | 37.9  | 48.7  | 62.2  |
| 142.5° | 1.4 | 1.4 | 1.4 | 4.1  | 5.4  | 9.5  | 14.9 | 21.6  | 29.8  | 39.2  | 50.1  |
| 145°   | 1.4 | 1.4 | 1.4 | 4.1  | 5.4  | 6.8  | 12.2 | 17.6  | 23.0  | 29.8  | 39.2  |
| 147.5° | 1.4 | 1.4 | 1.4 | 2.7  | 4.1  | 5.4  | 9.5  | 13.5  | 17.6  | 23.0  | 28.4  |
| 150°   | 1.4 | 1.4 | 1.4 | 2.7  | 4.1  | 5.4  | 6.8  | 9.5   | 13.5  | 18.9  | 23.0  |
| 152.5° | 1.4 | 1.4 | 1.4 | 2.7  | 2.7  | 4.1  | 5.4  | 6.8   | 9.5   | 13.5  | 16.2  |
| 155°   | 1.4 | 1.4 | 1.4 | 1.4  | 2.7  | 4.1  | 5.4  | 5.4   | 6.8   | 9.5   | 12.2  |
| 157.5° | 1.4 | 1.4 | 1.4 | 1.4  | 2.7  | 2.7  | 4.1  | 4.1   | 5.4   | 5.4   | 8.1   |
| 160°   | 1.4 | 1.4 | 1.4 | 1.4  | 1.4  | 2.7  | 2.7  | 4.1   | 4.1   | 4.1   | 4.1   |
| 162.5° | 1.4 | 1.4 | 1.4 | 1.4  | 1.4  | 1.4  | 2.7  | 2.7   | 2.7   | 4.1   | 4.1   |
| 165°   | 1.4 | 1.4 | 1.4 | 1.4  | 1.4  | 1.4  | 1.4  | 1.4   | 2.7   | 2.7   | 2.7   |
| 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-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5°   | 1273.0 | 1274.4 | 1278.5 | 1278.5 | 1275.7 | 1275.7 | 1274.4 | 1273.0 | 1274.4 | 1277.1 | 1277.1 |
| 5°     | 1270.3 | 1271.7 | 1275.7 | 1277.1 | 1274.4 | 1273.0 | 1273.0 | 1271.7 | 1273.0 | 1275.7 | 1275.7 |
| 7.5°   | 1264.9 | 1266.3 | 1270.3 | 1271.7 | 1269.0 | 1269.0 | 1267.6 | 1266.3 | 1269.0 | 1270.3 | 1270.3 |
| 10°    | 1256.8 | 1258.2 | 1263.6 | 1264.9 | 1263.6 | 1262.2 | 1262.2 | 1260.9 | 1262.2 | 1264.9 | 1264.9 |
| 12.5°  | 1246.0 | 1248.7 | 1255.5 | 1255.5 | 1255.5 | 1254.1 | 1254.1 | 1252.7 | 1254.1 | 1256.8 | 1255.5 |
| 15°    | 1233.8 | 1239.2 | 1244.6 | 1247.3 | 1247.3 | 1247.3 | 1246.0 | 1244.6 | 1247.3 | 1248.7 | 1247.3 |
| 17.5°  | 1220.3 | 1227.0 | 1235.2 | 1237.9 | 1237.9 | 1239.2 | 1237.9 | 1236.5 | 1239.2 | 1239.2 | 1237.9 |
| 20°    | 1206.8 | 1213.5 | 1221.6 | 1224.3 | 1227.0 | 1228.4 | 1228.4 | 1227.0 | 1228.4 | 1229.7 | 1228.4 |
| 22.5°  | 1189.2 | 1197.3 | 1206.8 | 1210.8 | 1213.5 | 1216.2 | 1216.2 | 1216.2 | 1217.6 | 1218.9 | 1216.2 |
| 25°    | 1170.2 | 1179.7 | 1190.5 | 1194.6 | 1200.0 | 1201.3 | 1202.7 | 1202.7 | 1204.0 | 1205.4 | 1201.3 |
| 27.5°  | 1149.9 | 1160.8 | 1171.6 | 1178.3 | 1182.4 | 1185.1 | 1185.1 | 1186.5 | 1187.8 | 1189.2 | 1185.1 |
| 30°    | 1125.6 | 1141.8 | 1151.3 | 1156.7 | 1162.1 | 1166.2 | 1167.5 | 1168.9 | 1170.2 | 1171.6 | 1167.5 |
| 32.5°  | 1103.9 | 1117.5 | 1129.6 | 1136.4 | 1143.2 | 1148.6 | 1149.9 | 1149.9 | 1152.6 | 1152.6 | 1148.6 |
| 35°    | 1078.2 | 1094.5 | 1106.6 | 1113.4 | 1121.5 | 1125.6 | 1128.3 | 1128.3 | 1131.0 | 1131.0 | 1126.9 |
| 37.5°  | 1052.5 | 1068.8 | 1082.3 | 1090.4 | 1099.9 | 1105.3 | 1106.6 | 1106.6 | 1109.3 | 1109.3 | 1103.9 |
| 40°    | 1025.5 | 1043.1 | 1057.9 | 1067.4 | 1075.5 | 1082.3 | 1083.6 | 1087.7 | 1087.7 | 1086.3 | 1080.9 |
| 42.5°  | 998.4  | 1014.6 | 1030.9 | 1041.7 | 1052.5 | 1059.3 | 1062.0 | 1063.3 | 1063.3 | 1062.0 | 1057.9 |
| 45°    | 968.6  | 987.6  | 1002.5 | 1016.0 | 1026.8 | 1033.6 | 1037.6 | 1039.0 | 1039.0 | 1036.3 | 1032.2 |
| 47.5°  | 940.2  | 959.2  | 974.1  | 988.9  | 999.8  | 1007.9 | 1011.9 | 1013.3 | 1011.9 | 1010.6 | 1006.5 |
| 50°    | 910.5  | 932.1  | 947.0  | 961.9  | 972.7  | 979.5  | 986.2  | 987.6  | 986.2  | 984.9  | 976.8  |
| 52.5°  | 879.4  | 902.4  | 918.6  | 933.5  | 945.6  | 953.8  | 959.2  | 960.5  | 960.5  | 957.8  | 952.4  |
| 55°    | 848.2  | 868.5  | 888.8  | 905.1  | 918.6  | 926.7  | 933.5  | 936.2  | 933.5  | 930.8  | 924.0  |
| 57.5°  | 819.8  | 838.8  | 859.1  | 876.7  | 890.2  | 901.0  | 906.4  | 909.1  | 906.4  | 902.4  | 895.6  |
| 60°    | 786.0  | 806.3  | 829.3  | 845.5  | 860.4  | 871.2  | 873.9  | 879.4  | 876.7  | 872.6  | 865.8  |
| 62.5°  | 753.5  | 777.9  | 798.2  | 818.5  | 830.7  | 842.8  | 848.2  | 850.9  | 848.2  | 844.2  | 837.4  |
| 65°    | 719.7  | 746.8  | 767.1  | 787.4  | 800.9  | 813.1  | 819.8  | 821.2  | 818.5  | 814.4  | 807.7  |
| 67.5°  | 688.6  | 714.3  | 736.0  | 757.6  | 769.8  | 782.0  | 788.7  | 791.4  | 788.7  | 783.3  | 776.5  |
| 70°    | 657.5  | 683.2  | 708.9  | 725.1  | 740.0  | 753.5  | 757.6  | 761.7  | 759.0  | 753.5  | 745.4  |
| 72.5°  | 626.4  | 653.4  | 679.1  | 695.4  | 711.6  | 723.8  | 729.2  | 733.2  | 730.5  | 725.1  | 715.7  |
| 75°    | 593.9  | 622.3  | 648.0  | 665.6  | 681.8  | 694.0  | 699.4  | 703.5  | 700.8  | 695.4  | 684.5  |
| 77.5°  | 564.1  | 592.6  | 616.9  | 635.8  | 652.1  | 662.9  | 672.4  | 673.7  | 671.0  | 665.6  | 654.8  |
| 80°    | 533.0  | 561.4  | 587.1  | 606.1  | 622.3  | 633.1  | 639.9  | 644.0  | 641.3  | 635.8  | 625.0  |
| 82.5°  | 506.0  | 531.7  | 557.4  | 576.3  | 592.6  | 606.1  | 611.5  | 615.6  | 614.2  | 606.1  | 598.0  |
| 85°    | 476.2  | 506.0  | 526.3  | 546.6  | 562.8  | 576.3  | 580.4  | 585.8  | 584.4  | 577.7  | 566.8  |
| 87.5°  | 446.4  | 476.2  | 500.6  | 520.9  | 535.7  | 546.6  | 553.3  | 556.0  | 554.7  | 547.9  | 535.7  |
| 90°    | 422.1  | 449.1  | 473.5  | 495.1  | 507.3  | 519.5  | 526.3  | 527.6  | 527.6  | 519.5  | 510.0  |
| 92.5°  | 399.1  | 424.8  | 449.1  | 469.4  | 484.3  | 495.1  | 500.6  | 503.3  | 501.9  | 495.1  | 484.3  |
| 95°    | 373.4  | 401.8  | 424.8  | 445.1  | 460.0  | 470.8  | 476.2  | 478.9  | 477.6  | 470.8  | 460.0  |
| 97.5°  | 351.7  | 377.4  | 400.4  | 419.4  | 434.3  | 445.1  | 450.5  | 453.2  | 453.2  | 446.4  | 435.6  |
| 100°   | 330.1  | 355.8  | 377.4  | 396.4  | 409.9  | 420.7  | 426.2  | 427.5  | 426.2  | 420.7  | 409.9  |
| 102.5° | 308.5  | 332.8  | 354.4  | 372.0  | 386.9  | 396.4  | 401.8  | 403.2  | 403.2  | 396.4  | 385.6  |
| 105°   | 286.8  | 311.2  | 331.5  | 350.4  | 362.6  | 372.0  | 376.1  | 380.2  | 378.8  | 373.4  | 362.6  |
| 107.5° | 266.5  | 290.9  | 309.8  | 327.4  | 339.6  | 349.0  | 353.1  | 357.2  | 355.8  | 350.4  | 339.6  |
| 110°   | 247.6  | 270.6  | 288.2  | 305.7  | 316.6  | 326.0  | 332.8  | 334.2  | 331.5  | 326.0  | 316.6  |



TEST NUMBER: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 230.0 | 250.3 | 267.9 | 284.1 | 296.3 | 303.0 | 308.5 | 311.2 | 308.5 | 303.0 | 296.3 |
| 115°   | 211.0 | 231.3 | 248.9 | 263.8 | 274.6 | 282.7 | 286.8 | 289.5 | 286.8 | 281.4 | 274.6 |
| 117.5° | 193.5 | 212.4 | 230.0 | 244.9 | 254.3 | 261.1 | 265.2 | 267.9 | 265.2 | 261.1 | 254.3 |
| 120°   | 178.6 | 194.8 | 211.0 | 224.6 | 235.4 | 240.8 | 244.9 | 247.6 | 246.2 | 240.8 | 234.0 |
| 122.5° | 161.0 | 178.6 | 193.5 | 207.0 | 216.5 | 221.9 | 224.6 | 227.3 | 225.9 | 221.9 | 215.1 |
| 125°   | 146.1 | 161.0 | 175.9 | 188.0 | 197.5 | 202.9 | 205.6 | 208.3 | 207.0 | 202.9 | 194.8 |
| 127.5° | 129.9 | 146.1 | 158.3 | 170.5 | 177.2 | 185.3 | 186.7 | 189.4 | 188.0 | 184.0 | 177.2 |
| 130°   | 117.7 | 129.9 | 142.1 | 152.9 | 161.0 | 166.4 | 169.1 | 170.5 | 167.8 | 165.0 | 158.3 |
| 132.5° | 102.8 | 116.3 | 127.2 | 136.6 | 142.1 | 147.5 | 150.2 | 151.5 | 151.5 | 147.5 | 142.1 |
| 135°   | 92.0  | 101.5 | 110.9 | 120.4 | 125.8 | 131.2 | 133.9 | 135.3 | 133.9 | 131.2 | 125.8 |
| 137.5° | 82.5  | 90.6  | 97.4  | 105.5 | 112.3 | 115.0 | 117.7 | 117.7 | 116.3 | 115.0 | 110.9 |
| 140°   | 71.7  | 81.2  | 87.9  | 93.3  | 98.8  | 100.1 | 102.8 | 102.8 | 101.5 | 100.1 | 97.4  |
| 142.5° | 60.9  | 69.0  | 75.8  | 82.5  | 86.6  | 89.3  | 90.6  | 92.0  | 90.6  | 89.3  | 85.2  |
| 145°   | 48.7  | 58.2  | 64.9  | 69.0  | 74.4  | 75.8  | 77.1  | 78.5  | 77.1  | 75.8  | 71.7  |
| 147.5° | 37.9  | 46.0  | 52.8  | 58.2  | 62.2  | 63.6  | 64.9  | 66.3  | 64.9  | 62.2  | 60.9  |
| 150°   | 27.1  | 33.8  | 41.9  | 47.4  | 50.1  | 52.8  | 52.8  | 52.8  | 54.1  | 51.4  | 48.7  |
| 152.5° | 21.6  | 24.4  | 29.8  | 35.2  | 39.2  | 40.6  | 41.9  | 41.9  | 40.6  | 40.6  | 37.9  |
| 155°   | 14.9  | 17.6  | 21.6  | 25.7  | 29.8  | 31.1  | 32.5  | 32.5  | 31.1  | 31.1  | 29.8  |
| 157.5° | 9.5   | 12.2  | 14.9  | 17.6  | 21.6  | 23.0  | 24.4  | 24.4  | 24.4  | 23.0  | 21.6  |
| 160°   | 5.4   | 6.8   | 8.1   | 10.8  | 13.5  | 14.9  | 16.2  | 16.2  | 16.2  | 16.2  | 14.9  |
| 162.5° | 4.1   | 4.1   | 4.1   | 5.4   | 6.8   | 8.1   | 9.5   | 9.5   | 9.5   | 9.5   | 8.1   |
| 165°   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 4.1   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   |
| 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: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5°   | 1275.7 | 1275.7 | 1277.1 | 1274.4 | 1266.3 | 1267.6 | 1267.6 | 1273.0 | 1275.7 | 1277.1 | 1283.9 |
| 5°     | 1273.0 | 1273.0 | 1275.7 | 1271.7 | 1264.9 | 1264.9 | 1264.9 | 1270.3 | 1271.7 | 1274.4 | 1279.8 |
| 7.5°   | 1269.0 | 1269.0 | 1270.3 | 1266.3 | 1258.2 | 1258.2 | 1256.8 | 1262.2 | 1264.9 | 1266.3 | 1271.7 |
| 10°    | 1262.2 | 1262.2 | 1263.6 | 1259.5 | 1250.0 | 1250.0 | 1248.7 | 1252.7 | 1254.1 | 1256.8 | 1260.9 |
| 12.5°  | 1252.7 | 1252.7 | 1252.7 | 1248.7 | 1239.2 | 1237.9 | 1236.5 | 1240.6 | 1240.6 | 1241.9 | 1246.0 |
| 15°    | 1244.6 | 1241.9 | 1241.9 | 1237.9 | 1228.4 | 1225.7 | 1223.0 | 1224.3 | 1227.0 | 1225.7 | 1228.4 |
| 17.5°  | 1235.2 | 1232.5 | 1229.7 | 1225.7 | 1213.5 | 1209.5 | 1206.8 | 1208.1 | 1206.8 | 1205.4 | 1208.1 |
| 20°    | 1224.3 | 1220.3 | 1218.9 | 1212.2 | 1200.0 | 1193.2 | 1187.8 | 1185.1 | 1186.5 | 1182.4 | 1183.8 |
| 22.5°  | 1212.2 | 1206.8 | 1204.0 | 1195.9 | 1183.8 | 1175.6 | 1168.9 | 1163.5 | 1162.1 | 1156.7 | 1158.0 |
| 25°    | 1197.3 | 1190.5 | 1186.5 | 1179.7 | 1166.2 | 1156.7 | 1148.6 | 1140.5 | 1136.4 | 1129.6 | 1128.3 |
| 27.5°  | 1179.7 | 1172.9 | 1167.5 | 1160.8 | 1147.2 | 1135.0 | 1125.6 | 1114.8 | 1109.3 | 1101.2 | 1097.2 |
| 30°    | 1162.1 | 1154.0 | 1145.9 | 1140.5 | 1125.6 | 1112.1 | 1097.2 | 1087.7 | 1079.6 | 1070.1 | 1063.3 |
| 32.5°  | 1140.5 | 1132.3 | 1124.2 | 1116.1 | 1102.6 | 1086.3 | 1074.2 | 1059.3 | 1049.8 | 1039.0 | 1030.9 |
| 35°    | 1118.8 | 1108.0 | 1099.9 | 1089.1 | 1076.9 | 1057.9 | 1043.1 | 1028.2 | 1016.0 | 1003.8 | 994.4  |
| 37.5°  | 1094.5 | 1086.3 | 1074.2 | 1064.7 | 1049.8 | 1030.9 | 1014.6 | 995.7  | 984.9  | 968.6  | 956.5  |
| 40°    | 1071.5 | 1062.0 | 1049.8 | 1037.6 | 1022.8 | 1001.1 | 983.5  | 961.9  | 949.7  | 930.8  | 918.6  |
| 42.5°  | 1048.5 | 1034.9 | 1022.8 | 1009.2 | 993.0  | 972.7  | 951.1  | 929.4  | 913.2  | 895.6  | 878.0  |
| 45°    | 1022.8 | 1007.9 | 993.0  | 978.1  | 961.9  | 941.6  | 918.6  | 895.6  | 875.3  | 859.1  | 837.4  |
| 47.5°  | 995.7  | 980.8  | 963.2  | 947.0  | 929.4  | 909.1  | 884.8  | 860.4  | 838.8  | 819.8  | 796.8  |
| 50°    | 968.6  | 953.8  | 934.8  | 917.2  | 896.9  | 876.7  | 850.9  | 822.5  | 799.5  | 775.2  | 754.9  |
| 52.5°  | 940.2  | 925.4  | 907.8  | 884.8  | 863.1  | 842.8  | 815.8  | 786.0  | 760.3  | 740.0  | 714.3  |
| 55°    | 911.8  | 896.9  | 876.7  | 853.7  | 832.0  | 806.3  | 780.6  | 750.8  | 722.4  | 698.1  | 672.4  |
| 57.5°  | 882.1  | 868.5  | 845.5  | 826.6  | 799.5  | 772.5  | 745.4  | 717.0  | 685.9  | 657.5  | 627.7  |
| 60°    | 852.3  | 837.4  | 815.8  | 792.8  | 765.7  | 738.7  | 710.3  | 679.1  | 646.7  | 615.6  | 588.5  |
| 62.5°  | 825.2  | 806.3  | 786.0  | 761.7  | 733.2  | 707.5  | 675.1  | 641.3  | 608.8  | 576.3  | 543.8  |
| 65°    | 794.1  | 773.8  | 754.9  | 730.5  | 700.8  | 671.0  | 638.5  | 604.7  | 569.6  | 534.4  | 501.9  |
| 67.5°  | 763.0  | 742.7  | 722.4  | 698.1  | 667.0  | 635.8  | 602.0  | 568.2  | 529.0  | 495.1  | 457.3  |
| 70°    | 731.9  | 715.7  | 690.0  | 664.3  | 635.8  | 602.0  | 568.2  | 531.7  | 491.1  | 454.6  | 415.3  |
| 72.5°  | 700.8  | 684.5  | 658.8  | 631.8  | 604.7  | 569.6  | 533.0  | 496.5  | 458.6  | 416.7  | 374.7  |
| 75°    | 671.0  | 650.7  | 627.7  | 602.0  | 573.6  | 537.1  | 500.6  | 462.7  | 418.0  | 378.8  | 335.5  |
| 77.5°  | 642.6  | 623.7  | 600.7  | 572.3  | 541.1  | 506.0  | 468.1  | 428.9  | 384.2  | 342.3  | 294.9  |
| 80°    | 611.5  | 592.6  | 569.6  | 541.1  | 510.0  | 476.2  | 435.6  | 395.0  | 351.7  | 305.7  | 257.0  |
| 82.5°  | 581.7  | 564.1  | 538.4  | 512.7  | 478.9  | 445.1  | 404.5  | 363.9  | 317.9  | 273.3  | 225.9  |
| 85°    | 550.6  | 533.0  | 508.7  | 481.6  | 449.1  | 412.6  | 374.7  | 334.2  | 288.2  | 242.2  | 194.8  |
| 87.5°  | 523.6  | 503.3  | 478.9  | 451.9  | 419.4  | 384.2  | 347.7  | 304.4  | 259.7  | 215.1  | 166.4  |
| 90°    | 495.1  | 476.2  | 451.9  | 424.8  | 392.3  | 357.2  | 319.3  | 278.7  | 235.4  | 189.4  | 143.4  |
| 92.5°  | 470.8  | 450.5  | 427.5  | 400.4  | 368.0  | 334.2  | 296.3  | 255.7  | 213.8  | 169.1  | 124.5  |
| 95°    | 446.4  | 426.2  | 404.5  | 377.4  | 345.0  | 311.2  | 273.3  | 234.0  | 193.5  | 150.2  | 108.2  |
| 97.5°  | 419.4  | 401.8  | 380.2  | 354.4  | 322.0  | 289.5  | 253.0  | 215.1  | 175.9  | 133.9  | 94.7   |
| 100°   | 397.7  | 377.4  | 357.2  | 330.1  | 300.3  | 269.2  | 232.7  | 196.2  | 158.3  | 119.1  | 82.5   |
| 102.5° | 373.4  | 354.4  | 334.2  | 308.5  | 278.7  | 247.6  | 213.8  | 178.6  | 143.4  | 106.9  | 71.7   |
| 105°   | 350.4  | 332.8  | 311.2  | 286.8  | 258.4  | 228.6  | 196.2  | 163.7  | 129.9  | 94.7   | 63.6   |
| 107.5° | 327.4  | 309.8  | 289.5  | 266.5  | 239.5  | 209.7  | 179.9  | 147.5  | 116.3  | 85.2   | 56.8   |
| 110°   | 304.4  | 288.2  | 269.2  | 246.2  | 220.5  | 193.5  | 165.0  | 135.3  | 104.2  | 75.8   | 50.1   |

TEST NUMBER: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 112.5° | 284.1 | 267.9 | 248.9 | 227.3 | 202.9 | 177.2 | 150.2 | 121.8 | 93.3 | 67.6 | 43.3 |
| 115°   | 263.8 | 248.9 | 230.0 | 211.0 | 186.7 | 162.3 | 136.6 | 109.6 | 83.9 | 60.9 | 37.9 |
| 117.5° | 243.5 | 228.6 | 211.0 | 192.1 | 170.5 | 147.5 | 123.1 | 97.4  | 75.8 | 54.1 | 33.8 |
| 120°   | 223.2 | 209.7 | 193.5 | 175.9 | 156.9 | 133.9 | 109.6 | 87.9  | 67.6 | 47.4 | 29.8 |
| 122.5° | 204.3 | 192.1 | 177.2 | 161.0 | 140.7 | 119.1 | 98.8  | 79.8  | 60.9 | 41.9 | 24.4 |
| 125°   | 186.7 | 174.5 | 161.0 | 144.8 | 125.8 | 106.9 | 89.3  | 71.7  | 52.8 | 36.5 | 20.3 |
| 127.5° | 169.1 | 156.9 | 143.4 | 128.5 | 113.6 | 96.1  | 79.8  | 63.6  | 47.4 | 32.5 | 17.6 |
| 130°   | 151.5 | 140.7 | 128.5 | 116.3 | 101.5 | 85.2  | 71.7  | 55.5  | 40.6 | 25.7 | 14.9 |
| 132.5° | 133.9 | 125.8 | 115.0 | 102.8 | 89.3  | 77.1  | 62.2  | 48.7  | 35.2 | 23.0 | 13.5 |
| 135°   | 119.1 | 110.9 | 101.5 | 90.6  | 79.8  | 67.6  | 54.1  | 41.9  | 29.8 | 18.9 | 10.8 |
| 137.5° | 105.5 | 98.8  | 89.3  | 79.8  | 70.3  | 58.2  | 47.4  | 35.2  | 24.4 | 16.2 | 8.1  |
| 140°   | 93.3  | 86.6  | 78.5  | 69.0  | 60.9  | 50.1  | 39.2  | 28.4  | 21.6 | 13.5 | 6.8  |
| 142.5° | 81.2  | 74.4  | 67.6  | 59.5  | 51.4  | 41.9  | 32.5  | 24.4  | 17.6 | 10.8 | 6.8  |
| 145°   | 69.0  | 63.6  | 56.8  | 50.1  | 41.9  | 33.8  | 27.1  | 20.3  | 13.5 | 8.1  | 5.4  |
| 147.5° | 56.8  | 52.8  | 46.0  | 40.6  | 33.8  | 27.1  | 21.6  | 16.2  | 10.8 | 6.8  | 4.1  |
| 150°   | 46.0  | 41.9  | 36.5  | 31.1  | 27.1  | 21.6  | 17.6  | 12.2  | 8.1  | 6.8  | 4.1  |
| 152.5° | 35.2  | 32.5  | 28.4  | 25.7  | 21.6  | 16.2  | 12.2  | 9.5   | 6.8  | 5.4  | 2.7  |
| 155°   | 28.4  | 25.7  | 23.0  | 18.9  | 16.2  | 12.2  | 9.5   | 6.8   | 5.4  | 4.1  | 2.7  |
| 157.5° | 20.3  | 18.9  | 16.2  | 13.5  | 10.8  | 8.1   | 6.8   | 6.8   | 4.1  | 2.7  | 1.4  |
| 160°   | 13.5  | 12.2  | 10.8  | 8.1   | 6.8   | 6.8   | 5.4   | 4.1   | 2.7  | 2.7  | 1.4  |
| 162.5° | 8.1   | 6.8   | 6.8   | 6.8   | 5.4   | 5.4   | 4.1   | 2.7   | 2.7  | 1.4  | 1.4  |
| 165°   | 5.4   | 5.4   | 5.4   | 4.1   | 4.1   | 4.1   | 2.7   | 1.4   | 1.4  | 1.4  | 1.4  |
| 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: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5°   | 1283.9 | 1279.8 | 1285.2 | 1294.7 | 1296.0 | 1294.7 | 1292.0 | 1296.0 | 1301.5 | 1300.1 | 1290.6 |
| 5°     | 1281.2 | 1275.7 | 1281.2 | 1290.6 | 1290.6 | 1289.3 | 1287.9 | 1292.0 | 1297.4 | 1296.0 | 1287.9 |
| 7.5°   | 1273.0 | 1267.6 | 1273.0 | 1281.2 | 1282.5 | 1279.8 | 1279.8 | 1283.9 | 1289.3 | 1287.9 | 1281.2 |
| 10°    | 1262.2 | 1256.8 | 1259.5 | 1269.0 | 1271.7 | 1269.0 | 1269.0 | 1273.0 | 1279.8 | 1278.5 | 1270.3 |
| 12.5°  | 1246.0 | 1241.9 | 1244.6 | 1252.7 | 1255.5 | 1254.1 | 1252.7 | 1258.2 | 1264.9 | 1264.9 | 1256.8 |
| 15°    | 1228.4 | 1223.0 | 1225.7 | 1235.2 | 1236.5 | 1233.8 | 1235.2 | 1239.2 | 1247.3 | 1247.3 | 1240.6 |
| 17.5°  | 1208.1 | 1201.3 | 1205.4 | 1212.2 | 1213.5 | 1213.5 | 1213.5 | 1218.9 | 1228.4 | 1227.0 | 1221.6 |
| 20°    | 1185.1 | 1175.6 | 1178.3 | 1185.1 | 1187.8 | 1187.8 | 1187.8 | 1197.3 | 1204.0 | 1204.0 | 1198.6 |
| 22.5°  | 1158.0 | 1151.3 | 1151.3 | 1158.0 | 1162.1 | 1160.8 | 1160.8 | 1168.9 | 1178.3 | 1177.0 | 1177.0 |
| 25°    | 1126.9 | 1121.5 | 1118.8 | 1126.9 | 1128.3 | 1129.6 | 1132.3 | 1140.5 | 1151.3 | 1151.3 | 1152.6 |
| 27.5°  | 1094.5 | 1089.1 | 1087.7 | 1094.5 | 1095.8 | 1097.2 | 1099.9 | 1109.3 | 1120.2 | 1121.5 | 1124.2 |
| 30°    | 1063.3 | 1055.2 | 1052.5 | 1057.9 | 1060.6 | 1062.0 | 1062.0 | 1076.9 | 1086.3 | 1090.4 | 1095.8 |
| 32.5°  | 1026.8 | 1018.7 | 1011.9 | 1021.4 | 1022.8 | 1025.5 | 1026.8 | 1041.7 | 1052.5 | 1059.3 | 1067.4 |
| 35°    | 990.3  | 976.8  | 974.1  | 980.8  | 983.5  | 984.9  | 987.6  | 1003.8 | 1018.7 | 1024.1 | 1034.9 |
| 37.5°  | 949.7  | 940.2  | 932.1  | 938.9  | 941.6  | 942.9  | 951.1  | 965.9  | 980.8  | 988.9  | 999.8  |
| 40°    | 911.8  | 899.7  | 892.9  | 896.9  | 899.7  | 901.0  | 910.5  | 926.7  | 944.3  | 953.8  | 967.3  |
| 42.5°  | 869.9  | 853.7  | 848.2  | 852.3  | 853.7  | 857.7  | 865.8  | 887.5  | 905.1  | 918.6  | 929.4  |
| 45°    | 828.0  | 815.8  | 803.6  | 807.7  | 809.0  | 811.7  | 823.9  | 846.9  | 865.8  | 882.1  | 894.2  |
| 47.5°  | 784.7  | 769.8  | 757.6  | 760.3  | 765.7  | 767.1  | 780.6  | 807.7  | 825.2  | 842.8  | 859.1  |
| 50°    | 741.4  | 721.1  | 711.6  | 711.6  | 714.3  | 721.1  | 738.7  | 765.7  | 784.7  | 805.0  | 822.5  |
| 52.5°  | 696.7  | 677.8  | 667.0  | 668.3  | 671.0  | 679.1  | 695.4  | 722.4  | 744.1  | 765.7  | 787.4  |
| 55°    | 652.1  | 631.8  | 621.0  | 618.3  | 621.0  | 631.8  | 650.7  | 679.1  | 700.8  | 726.5  | 749.5  |
| 57.5°  | 607.4  | 583.1  | 573.6  | 569.6  | 572.3  | 585.8  | 604.7  | 634.5  | 661.5  | 685.9  | 713.0  |
| 60°    | 558.7  | 539.8  | 523.6  | 514.1  | 520.9  | 538.4  | 558.7  | 589.8  | 618.3  | 645.3  | 675.1  |
| 62.5°  | 516.8  | 492.4  | 474.9  | 465.4  | 472.1  | 487.0  | 515.4  | 545.2  | 576.3  | 607.4  | 637.2  |
| 65°    | 469.4  | 445.1  | 424.8  | 415.3  | 422.1  | 439.7  | 468.1  | 500.6  | 534.4  | 565.5  | 600.7  |
| 67.5°  | 423.4  | 397.7  | 373.4  | 363.9  | 372.0  | 391.0  | 422.1  | 458.6  | 495.1  | 527.6  | 565.5  |
| 70°    | 378.8  | 350.4  | 324.7  | 317.9  | 323.3  | 349.0  | 378.8  | 415.3  | 453.2  | 491.1  | 530.3  |
| 72.5°  | 338.2  | 303.0  | 276.0  | 267.9  | 274.6  | 303.0  | 336.9  | 374.7  | 415.3  | 455.9  | 497.9  |
| 75°    | 290.9  | 258.4  | 228.6  | 219.2  | 227.3  | 253.0  | 294.9  | 335.5  | 378.8  | 422.1  | 461.3  |
| 77.5°  | 253.0  | 215.1  | 184.0  | 169.1  | 182.6  | 215.1  | 255.7  | 299.0  | 343.6  | 388.3  | 432.9  |
| 80°    | 213.8  | 174.5  | 140.7  | 124.5  | 139.3  | 174.5  | 215.1  | 262.5  | 312.5  | 357.2  | 397.7  |
| 82.5°  | 178.6  | 136.6  | 101.5  | 83.9   | 100.1  | 139.3  | 184.0  | 231.3  | 280.0  | 324.7  | 372.0  |
| 85°    | 146.1  | 102.8  | 66.3   | 47.4   | 70.3   | 105.5  | 152.9  | 201.6  | 251.6  | 297.6  | 343.6  |
| 87.5°  | 119.1  | 77.1   | 40.6   | 20.3   | 43.3   | 82.5   | 127.2  | 175.9  | 225.9  | 271.9  | 315.2  |
| 90°    | 97.4   | 55.5   | 21.6   | 2.7    | 25.7   | 62.2   | 105.5  | 152.9  | 200.2  | 247.6  | 290.9  |
| 92.5°  | 79.8   | 41.9   | 12.2   | 1.4    | 16.2   | 50.1   | 90.6   | 135.3  | 181.3  | 227.3  | 269.2  |
| 95°    | 66.3   | 32.5   | 8.1    | 1.4    | 12.2   | 39.2   | 77.1   | 120.4  | 163.7  | 208.3  | 250.3  |
| 97.5°  | 56.8   | 27.1   | 6.8    | 1.4    | 9.5    | 33.8   | 66.3   | 106.9  | 148.8  | 190.8  | 231.3  |
| 100°   | 48.7   | 21.6   | 5.4    | 1.4    | 8.1    | 28.4   | 58.2   | 94.7   | 133.9  | 174.5  | 213.8  |
| 102.5° | 41.9   | 17.6   | 4.1    | 1.4    | 6.8    | 24.4   | 51.4   | 85.2   | 120.4  | 159.6  | 197.5  |
| 105°   | 36.5   | 14.9   | 4.1    | 1.4    | 5.4    | 21.6   | 46.0   | 75.8   | 110.9  | 146.1  | 182.6  |
| 107.5° | 31.1   | 12.2   | 2.7    | 1.4    | 4.1    | 17.6   | 40.6   | 69.0   | 100.1  | 133.9  | 167.8  |
| 110°   | 27.1   | 10.8   | 2.7    | 1.4    | 4.1    | 16.2   | 35.2   | 62.2   | 90.6   | 121.8  | 154.2  |

TEST NUMBER: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210°  | 215°  |
|--------|------|------|------|------|------|------|------|------|------|-------|-------|
| 112.5° | 23.0 | 8.1  | 2.7  | 1.4  | 2.7  | 13.5 | 31.1 | 55.5 | 82.5 | 110.9 | 142.1 |
| 115°   | 20.3 | 6.8  | 1.4  | 1.4  | 2.7  | 12.2 | 28.4 | 50.1 | 74.4 | 101.5 | 129.9 |
| 117.5° | 16.2 | 5.4  | 1.4  | 1.4  | 1.4  | 9.5  | 24.4 | 44.6 | 67.6 | 93.3  | 119.1 |
| 120°   | 13.5 | 5.4  | 1.4  | 1.4  | 1.4  | 8.1  | 21.6 | 39.2 | 60.9 | 83.9  | 108.2 |
| 122.5° | 12.2 | 4.1  | 1.4  | 1.4  | 1.4  | 6.8  | 18.9 | 35.2 | 54.1 | 75.8  | 98.8  |
| 125°   | 10.8 | 4.1  | 1.4  | 1.4  | 1.4  | 5.4  | 16.2 | 31.1 | 48.7 | 67.6  | 89.3  |
| 127.5° | 8.1  | 4.1  | 1.4  | 1.4  | 1.4  | 4.1  | 14.9 | 27.1 | 43.3 | 60.9  | 79.8  |
| 130°   | 6.8  | 2.7  | 1.4  | 1.4  | 1.4  | 4.1  | 12.2 | 24.4 | 37.9 | 54.1  | 71.7  |
| 132.5° | 5.4  | 2.7  | 1.4  | 1.4  | 1.4  | 2.7  | 9.5  | 18.9 | 32.5 | 47.4  | 63.6  |
| 135°   | 5.4  | 2.7  | 1.4  | 1.4  | 1.4  | 2.7  | 6.8  | 16.2 | 27.1 | 40.6  | 54.1  |
| 137.5° | 5.4  | 1.4  | 1.4  | 1.4  | 1.4  | 2.7  | 5.4  | 12.2 | 21.6 | 32.5  | 44.6  |
| 140°   | 4.1  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 4.1  | 9.5  | 17.6 | 27.1  | 37.9  |
| 142.5° | 4.1  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 4.1  | 6.8  | 13.5 | 21.6  | 29.8  |
| 145°   | 2.7  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 2.7  | 5.4  | 10.8 | 16.2  | 24.4  |
| 147.5° | 2.7  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 2.7  | 4.1  | 8.1  | 13.5  | 18.9  |
| 150°   | 2.7  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 2.7  | 4.1  | 5.4  | 9.5   | 14.9  |
| 152.5° | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 2.7  | 2.7  | 4.1  | 6.8   | 9.5   |
| 155°   | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 2.7  | 4.1  | 5.4   | 6.8   |
| 157.5° | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 2.7  | 2.7  | 4.1   | 5.4   |
| 160°   | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 2.7  | 2.7   | 4.1   |
| 162.5° | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 2.7   | 2.7   |
| 165°   | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4   | 1.4   |
| 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: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5°   | 1286.6 | 1277.1 | 1279.8 | 1278.5 | 1281.2 | 1285.2 | 1285.2 | 1283.9 | 1283.9 | 1281.2 | 1278.5 |
| 5°     | 1283.9 | 1274.4 | 1278.5 | 1277.1 | 1279.8 | 1283.9 | 1283.9 | 1282.5 | 1282.5 | 1278.5 | 1277.1 |
| 7.5°   | 1275.7 | 1269.0 | 1271.7 | 1271.7 | 1274.4 | 1278.5 | 1278.5 | 1277.1 | 1277.1 | 1273.0 | 1271.7 |
| 10°    | 1267.6 | 1259.5 | 1263.6 | 1263.6 | 1266.3 | 1271.7 | 1271.7 | 1270.3 | 1270.3 | 1266.3 | 1264.9 |
| 12.5°  | 1254.1 | 1246.0 | 1252.7 | 1254.1 | 1256.8 | 1262.2 | 1260.9 | 1260.9 | 1260.9 | 1256.8 | 1255.5 |
| 15°    | 1237.9 | 1232.5 | 1239.2 | 1240.6 | 1244.6 | 1251.4 | 1251.4 | 1251.4 | 1251.4 | 1247.3 | 1246.0 |
| 17.5°  | 1220.3 | 1216.2 | 1223.0 | 1225.7 | 1231.1 | 1237.9 | 1237.9 | 1239.2 | 1240.6 | 1237.9 | 1236.5 |
| 20°    | 1200.0 | 1197.3 | 1204.0 | 1209.5 | 1217.6 | 1224.3 | 1227.0 | 1228.4 | 1231.1 | 1228.4 | 1227.0 |
| 22.5°  | 1177.0 | 1177.0 | 1186.5 | 1191.9 | 1201.3 | 1208.1 | 1212.2 | 1216.2 | 1218.9 | 1216.2 | 1214.9 |
| 25°    | 1151.3 | 1155.3 | 1164.8 | 1174.3 | 1185.1 | 1191.9 | 1195.9 | 1201.3 | 1204.0 | 1202.7 | 1201.3 |
| 27.5°  | 1126.9 | 1132.3 | 1144.5 | 1154.0 | 1163.5 | 1174.3 | 1178.3 | 1185.1 | 1187.8 | 1187.8 | 1186.5 |
| 30°    | 1098.5 | 1106.6 | 1120.2 | 1131.0 | 1143.2 | 1154.0 | 1159.4 | 1166.2 | 1170.2 | 1167.5 | 1168.9 |
| 32.5°  | 1071.5 | 1085.0 | 1095.8 | 1108.0 | 1121.5 | 1132.3 | 1139.1 | 1147.2 | 1151.3 | 1149.9 | 1151.3 |
| 35°    | 1041.7 | 1055.2 | 1070.1 | 1082.3 | 1098.5 | 1109.3 | 1118.8 | 1125.6 | 1131.0 | 1129.6 | 1129.6 |
| 37.5°  | 1009.2 | 1026.8 | 1041.7 | 1057.9 | 1072.8 | 1085.0 | 1094.5 | 1102.6 | 1108.0 | 1108.0 | 1108.0 |
| 40°    | 978.1  | 997.1  | 1011.9 | 1030.9 | 1049.8 | 1060.6 | 1071.5 | 1079.6 | 1085.0 | 1086.3 | 1087.7 |
| 42.5°  | 944.3  | 964.6  | 982.2  | 1002.5 | 1021.4 | 1034.9 | 1047.1 | 1056.6 | 1062.0 | 1064.7 | 1063.3 |
| 45°    | 913.2  | 932.1  | 952.4  | 975.4  | 993.0  | 1006.5 | 1021.4 | 1032.2 | 1037.6 | 1039.0 | 1040.3 |
| 47.5°  | 878.0  | 899.7  | 922.7  | 945.6  | 963.2  | 980.8  | 994.4  | 1005.2 | 1010.6 | 1014.6 | 1014.6 |
| 50°    | 844.2  | 867.2  | 892.9  | 917.2  | 936.2  | 953.8  | 967.3  | 979.5  | 986.2  | 988.9  | 990.3  |
| 52.5°  | 813.1  | 834.7  | 861.8  | 886.1  | 905.1  | 922.7  | 940.2  | 953.8  | 960.5  | 963.2  | 963.2  |
| 55°    | 775.2  | 802.2  | 832.0  | 855.0  | 875.3  | 895.6  | 913.2  | 926.7  | 933.5  | 937.5  | 940.2  |
| 57.5°  | 740.0  | 768.4  | 799.5  | 823.9  | 848.2  | 867.2  | 883.4  | 901.0  | 906.4  | 911.8  | 913.2  |
| 60°    | 706.2  | 734.6  | 764.4  | 791.4  | 815.8  | 836.1  | 855.0  | 869.9  | 879.4  | 882.1  | 884.8  |
| 62.5°  | 671.0  | 700.8  | 731.9  | 759.0  | 784.7  | 809.0  | 826.6  | 840.1  | 850.9  | 855.0  | 857.7  |
| 65°    | 637.2  | 668.3  | 699.4  | 727.8  | 754.9  | 779.2  | 796.8  | 810.4  | 821.2  | 828.0  | 829.3  |
| 67.5°  | 600.7  | 634.5  | 667.0  | 696.7  | 723.8  | 749.5  | 767.1  | 780.6  | 791.4  | 799.5  | 800.9  |
| 70°    | 566.8  | 602.0  | 634.5  | 667.0  | 694.0  | 719.7  | 738.7  | 752.2  | 764.4  | 769.8  | 772.5  |
| 72.5°  | 534.4  | 570.9  | 604.7  | 637.2  | 664.3  | 690.0  | 710.3  | 723.8  | 736.0  | 742.7  | 744.1  |
| 75°    | 503.3  | 539.8  | 576.3  | 607.4  | 635.8  | 661.5  | 681.8  | 696.7  | 707.5  | 714.3  | 717.0  |
| 77.5°  | 472.1  | 510.0  | 546.6  | 577.7  | 607.4  | 633.1  | 650.7  | 668.3  | 679.1  | 687.3  | 687.3  |
| 80°    | 441.0  | 480.3  | 518.1  | 549.3  | 579.0  | 602.0  | 622.3  | 639.9  | 650.7  | 658.8  | 658.8  |
| 82.5°  | 414.0  | 451.9  | 488.4  | 519.5  | 549.3  | 575.0  | 595.3  | 611.5  | 623.7  | 629.1  | 630.4  |
| 85°    | 382.9  | 424.8  | 458.6  | 492.4  | 520.9  | 545.2  | 565.5  | 583.1  | 593.9  | 599.3  | 602.0  |
| 87.5°  | 357.2  | 397.7  | 434.3  | 464.0  | 492.4  | 516.8  | 539.8  | 554.7  | 565.5  | 572.3  | 575.0  |
| 90°    | 332.8  | 372.0  | 408.6  | 438.3  | 468.1  | 491.1  | 512.7  | 527.6  | 539.8  | 545.2  | 547.9  |
| 92.5°  | 311.2  | 350.4  | 385.6  | 415.3  | 443.7  | 469.4  | 489.7  | 504.6  | 515.4  | 520.9  | 524.9  |
| 95°    | 290.9  | 328.7  | 362.6  | 395.0  | 422.1  | 445.1  | 466.7  | 481.6  | 493.8  | 497.9  | 501.9  |
| 97.5°  | 270.6  | 307.1  | 340.9  | 372.0  | 400.4  | 422.1  | 442.4  | 457.3  | 466.7  | 473.5  | 477.6  |
| 100°   | 253.0  | 288.2  | 320.6  | 350.4  | 377.4  | 397.7  | 419.4  | 432.9  | 442.4  | 447.8  | 453.2  |
| 102.5° | 234.0  | 269.2  | 300.3  | 328.7  | 357.2  | 376.1  | 396.4  | 409.9  | 418.0  | 427.5  | 427.5  |
| 105°   | 217.8  | 250.3  | 281.4  | 308.5  | 332.8  | 355.8  | 373.4  | 386.9  | 396.4  | 403.2  | 403.2  |
| 107.5° | 200.2  | 232.7  | 262.5  | 290.9  | 313.9  | 335.5  | 351.7  | 363.9  | 374.7  | 378.8  | 382.9  |
| 110°   | 186.7  | 215.1  | 244.9  | 271.9  | 293.6  | 313.9  | 330.1  | 343.6  | 353.1  | 357.2  | 359.9  |

TEST NUMBER: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 170.5 | 200.2 | 227.3 | 253.0 | 274.6 | 293.6 | 309.8 | 320.6 | 330.1 | 335.5 | 336.9 |
| 115°   | 156.9 | 185.3 | 209.7 | 234.0 | 257.0 | 273.3 | 288.2 | 299.0 | 308.5 | 312.5 | 315.2 |
| 117.5° | 144.8 | 170.5 | 194.8 | 215.1 | 236.8 | 254.3 | 269.2 | 278.7 | 286.8 | 292.2 | 294.9 |
| 120°   | 132.6 | 156.9 | 178.6 | 198.9 | 219.2 | 235.4 | 248.9 | 258.4 | 267.9 | 271.9 | 271.9 |
| 122.5° | 120.4 | 143.4 | 163.7 | 182.6 | 201.6 | 216.5 | 231.3 | 239.5 | 247.6 | 251.6 | 251.6 |
| 125°   | 109.6 | 131.2 | 150.2 | 167.8 | 185.3 | 198.9 | 211.0 | 220.5 | 228.6 | 231.3 | 231.3 |
| 127.5° | 98.8  | 119.1 | 136.6 | 152.9 | 167.8 | 181.3 | 193.5 | 202.9 | 209.7 | 212.4 | 212.4 |
| 130°   | 89.3  | 106.9 | 123.1 | 139.3 | 154.2 | 165.0 | 177.2 | 185.3 | 189.4 | 193.5 | 194.8 |
| 132.5° | 79.8  | 96.1  | 110.9 | 124.5 | 139.3 | 150.2 | 159.6 | 167.8 | 171.8 | 175.9 | 177.2 |
| 135°   | 70.3  | 85.2  | 98.8  | 112.3 | 124.5 | 135.3 | 143.4 | 150.2 | 155.6 | 158.3 | 159.6 |
| 137.5° | 59.5  | 75.8  | 87.9  | 98.8  | 112.3 | 120.4 | 129.9 | 133.9 | 139.3 | 142.1 | 142.1 |
| 140°   | 50.1  | 62.2  | 75.8  | 86.6  | 97.4  | 105.5 | 113.6 | 120.4 | 124.5 | 125.8 | 125.8 |
| 142.5° | 40.6  | 51.4  | 62.2  | 75.8  | 85.2  | 92.0  | 100.1 | 105.5 | 108.2 | 109.6 | 110.9 |
| 145°   | 32.5  | 40.6  | 50.1  | 62.2  | 73.1  | 81.2  | 85.2  | 90.6  | 93.3  | 94.7  | 96.1  |
| 147.5° | 24.4  | 32.5  | 40.6  | 48.7  | 59.5  | 67.6  | 71.7  | 77.1  | 79.8  | 81.2  | 81.2  |
| 150°   | 18.9  | 24.4  | 29.8  | 37.9  | 46.0  | 55.5  | 60.9  | 64.9  | 66.3  | 67.6  | 67.6  |
| 152.5° | 13.5  | 18.9  | 23.0  | 28.4  | 33.8  | 41.9  | 50.1  | 52.8  | 54.1  | 55.5  | 55.5  |
| 155°   | 9.5   | 13.5  | 16.2  | 20.3  | 24.4  | 31.1  | 37.9  | 41.9  | 43.3  | 44.6  | 44.6  |
| 157.5° | 6.8   | 9.5   | 10.8  | 14.9  | 17.6  | 20.3  | 25.7  | 32.5  | 33.8  | 33.8  | 33.8  |
| 160°   | 4.1   | 5.4   | 6.8   | 9.5   | 10.8  | 13.5  | 16.2  | 20.3  | 24.4  | 24.4  | 24.4  |
| 162.5° | 2.7   | 4.1   | 4.1   | 5.4   | 5.4   | 8.1   | 9.5   | 10.8  | 14.9  | 16.2  | 16.2  |
| 165°   | 1.4   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 4.1   | 4.1   | 6.8   | 8.1   | 8.1   |
| 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: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5°   | 1279.8 | 1282.5 | 1281.2 | 1281.2 | 1281.2 | 1283.9 | 1281.2 | 1269.0 | 1271.7 | 1274.4 | 1277.1 |
| 5°     | 1278.5 | 1279.8 | 1279.8 | 1278.5 | 1278.5 | 1281.2 | 1278.5 | 1266.3 | 1269.0 | 1271.7 | 1273.0 |
| 7.5°   | 1273.0 | 1274.4 | 1274.4 | 1274.4 | 1273.0 | 1275.7 | 1271.7 | 1260.9 | 1260.9 | 1263.6 | 1264.9 |
| 10°    | 1266.3 | 1269.0 | 1267.6 | 1266.3 | 1266.3 | 1266.3 | 1263.6 | 1251.4 | 1251.4 | 1252.7 | 1254.1 |
| 12.5°  | 1258.2 | 1258.2 | 1258.2 | 1256.8 | 1255.5 | 1255.5 | 1252.7 | 1240.6 | 1239.2 | 1241.9 | 1240.6 |
| 15°    | 1247.3 | 1250.0 | 1247.3 | 1246.0 | 1243.3 | 1243.3 | 1239.2 | 1227.0 | 1224.3 | 1225.7 | 1224.3 |
| 17.5°  | 1237.9 | 1239.2 | 1236.5 | 1233.8 | 1231.1 | 1229.7 | 1225.7 | 1212.2 | 1208.1 | 1209.5 | 1206.8 |
| 20°    | 1228.4 | 1228.4 | 1225.7 | 1223.0 | 1218.9 | 1214.9 | 1209.5 | 1195.9 | 1189.2 | 1189.2 | 1183.8 |
| 22.5°  | 1216.2 | 1216.2 | 1213.5 | 1209.5 | 1205.4 | 1200.0 | 1194.6 | 1181.0 | 1170.2 | 1167.5 | 1163.5 |
| 25°    | 1202.7 | 1201.3 | 1200.0 | 1195.9 | 1187.8 | 1182.4 | 1177.0 | 1162.1 | 1149.9 | 1144.5 | 1137.8 |
| 27.5°  | 1186.5 | 1186.5 | 1182.4 | 1178.3 | 1170.2 | 1163.5 | 1156.7 | 1143.2 | 1126.9 | 1120.2 | 1110.7 |
| 30°    | 1168.9 | 1168.9 | 1164.8 | 1159.4 | 1151.3 | 1143.2 | 1135.0 | 1118.8 | 1102.6 | 1093.1 | 1082.3 |
| 32.5°  | 1151.3 | 1149.9 | 1145.9 | 1140.5 | 1132.3 | 1120.2 | 1113.4 | 1097.2 | 1078.2 | 1067.4 | 1052.5 |
| 35°    | 1129.6 | 1128.3 | 1124.2 | 1117.5 | 1106.6 | 1097.2 | 1086.3 | 1071.5 | 1049.8 | 1036.3 | 1020.1 |
| 37.5°  | 1108.0 | 1106.6 | 1103.9 | 1094.5 | 1083.6 | 1072.8 | 1059.3 | 1044.4 | 1024.1 | 1006.5 | 990.3  |
| 40°    | 1086.3 | 1085.0 | 1079.6 | 1072.8 | 1059.3 | 1045.8 | 1032.2 | 1017.4 | 995.7  | 975.4  | 957.8  |
| 42.5°  | 1063.3 | 1062.0 | 1055.2 | 1047.1 | 1032.2 | 1018.7 | 1002.5 | 986.2  | 964.6  | 940.2  | 922.7  |
| 45°    | 1040.3 | 1037.6 | 1030.9 | 1021.4 | 1005.2 | 990.3  | 974.1  | 955.1  | 933.5  | 910.5  | 887.5  |
| 47.5°  | 1016.0 | 1011.9 | 1005.2 | 991.6  | 978.1  | 961.9  | 942.9  | 922.7  | 901.0  | 875.3  | 850.9  |
| 50°    | 988.9  | 986.2  | 978.1  | 965.9  | 949.7  | 933.5  | 911.8  | 891.5  | 865.8  | 841.5  | 811.7  |
| 52.5°  | 963.2  | 957.8  | 951.1  | 937.5  | 921.3  | 903.7  | 880.7  | 856.4  | 830.7  | 807.7  | 776.5  |
| 55°    | 936.2  | 933.5  | 924.0  | 913.2  | 892.9  | 872.6  | 850.9  | 825.2  | 796.8  | 769.8  | 740.0  |
| 57.5°  | 910.5  | 905.1  | 896.9  | 882.1  | 864.5  | 844.2  | 821.2  | 794.1  | 763.0  | 734.6  | 702.1  |
| 60°    | 884.8  | 876.7  | 867.2  | 853.7  | 834.7  | 813.1  | 788.7  | 760.3  | 729.2  | 698.1  | 664.3  |
| 62.5°  | 856.4  | 849.6  | 838.8  | 825.2  | 806.3  | 783.3  | 757.6  | 727.8  | 698.1  | 665.6  | 629.1  |
| 65°    | 828.0  | 821.2  | 810.4  | 796.8  | 777.9  | 752.2  | 725.1  | 695.4  | 661.5  | 630.4  | 591.2  |
| 67.5°  | 799.5  | 792.8  | 780.6  | 765.7  | 746.8  | 722.4  | 694.0  | 662.9  | 629.1  | 595.3  | 554.7  |
| 70°    | 771.1  | 763.0  | 752.2  | 736.0  | 717.0  | 691.3  | 662.9  | 630.4  | 596.6  | 560.1  | 519.5  |
| 72.5°  | 742.7  | 736.0  | 722.4  | 707.5  | 687.3  | 661.5  | 633.1  | 600.7  | 565.5  | 527.6  | 487.0  |
| 75°    | 714.3  | 706.2  | 696.7  | 679.1  | 657.5  | 633.1  | 603.4  | 570.9  | 533.0  | 496.5  | 454.6  |
| 77.5°  | 685.9  | 679.1  | 667.0  | 649.4  | 629.1  | 603.4  | 573.6  | 541.1  | 503.3  | 465.4  | 420.7  |
| 80°    | 657.5  | 649.4  | 639.9  | 623.7  | 600.7  | 575.0  | 543.8  | 511.4  | 473.5  | 434.3  | 389.6  |
| 82.5°  | 629.1  | 621.0  | 610.1  | 593.9  | 572.3  | 546.6  | 516.8  | 481.6  | 443.7  | 403.2  | 361.2  |
| 85°    | 600.7  | 593.9  | 581.7  | 565.5  | 542.5  | 516.8  | 487.0  | 455.9  | 415.3  | 374.7  | 332.8  |
| 87.5°  | 572.3  | 565.5  | 553.3  | 537.1  | 515.4  | 489.7  | 460.0  | 427.5  | 388.3  | 350.4  | 304.4  |
| 90°    | 545.2  | 539.8  | 527.6  | 511.4  | 489.7  | 464.0  | 437.0  | 401.8  | 363.9  | 326.0  | 282.7  |
| 92.5°  | 520.9  | 515.4  | 504.6  | 488.4  | 469.4  | 441.0  | 414.0  | 380.2  | 342.3  | 303.0  | 261.1  |
| 95°    | 499.2  | 492.4  | 481.6  | 466.7  | 443.7  | 419.4  | 392.3  | 358.5  | 322.0  | 282.7  | 242.2  |
| 97.5°  | 474.9  | 468.1  | 457.3  | 441.0  | 422.1  | 396.4  | 369.3  | 336.9  | 300.3  | 263.8  | 223.2  |
| 100°   | 450.5  | 443.7  | 431.6  | 418.0  | 399.1  | 373.4  | 347.7  | 315.2  | 281.4  | 246.2  | 207.0  |
| 102.5° | 426.2  | 419.4  | 408.6  | 395.0  | 376.1  | 353.1  | 327.4  | 296.3  | 262.5  | 227.3  | 190.8  |
| 105°   | 403.2  | 396.4  | 385.6  | 372.0  | 354.4  | 331.5  | 304.4  | 277.3  | 244.9  | 211.0  | 175.9  |
| 107.5° | 380.2  | 373.4  | 363.9  | 350.4  | 332.8  | 311.2  | 285.5  | 257.0  | 227.3  | 194.8  | 161.0  |
| 110°   | 357.2  | 351.7  | 340.9  | 328.7  | 311.2  | 289.5  | 266.5  | 239.5  | 209.7  | 179.9  | 147.5  |

TEST NUMBER: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 335.5 | 330.1 | 319.3 | 305.7 | 290.9 | 270.6 | 247.6 | 221.9 | 193.5 | 165.0 | 133.9 |
| 115°   | 313.9 | 307.1 | 297.6 | 285.5 | 270.6 | 251.6 | 230.0 | 207.0 | 178.6 | 151.5 | 123.1 |
| 117.5° | 292.2 | 286.8 | 277.3 | 265.2 | 251.6 | 232.7 | 212.4 | 190.8 | 163.7 | 138.0 | 112.3 |
| 120°   | 270.6 | 266.5 | 257.0 | 246.2 | 232.7 | 215.1 | 196.2 | 174.5 | 150.2 | 125.8 | 101.5 |
| 122.5° | 250.3 | 246.2 | 236.8 | 227.3 | 213.8 | 197.5 | 179.9 | 159.6 | 138.0 | 115.0 | 93.3  |
| 125°   | 231.3 | 225.9 | 217.8 | 208.3 | 196.2 | 181.3 | 163.7 | 144.8 | 124.5 | 104.2 | 83.9  |
| 127.5° | 211.0 | 207.0 | 201.6 | 190.8 | 178.6 | 165.0 | 148.8 | 132.6 | 113.6 | 94.7  | 75.8  |
| 130°   | 194.8 | 189.4 | 182.6 | 174.5 | 163.7 | 150.2 | 135.3 | 119.1 | 102.8 | 85.2  | 66.3  |
| 132.5° | 175.9 | 170.5 | 165.0 | 156.9 | 147.5 | 135.3 | 121.8 | 106.9 | 92.0  | 75.8  | 59.5  |
| 135°   | 158.3 | 154.2 | 148.8 | 140.7 | 131.2 | 121.8 | 108.2 | 94.7  | 81.2  | 66.3  | 52.8  |
| 137.5° | 142.1 | 138.0 | 132.6 | 127.2 | 117.7 | 108.2 | 96.1  | 83.9  | 71.7  | 58.2  | 46.0  |
| 140°   | 125.8 | 123.1 | 117.7 | 112.3 | 104.2 | 94.7  | 83.9  | 73.1  | 62.2  | 50.1  | 39.2  |
| 142.5° | 109.6 | 106.9 | 102.8 | 97.4  | 90.6  | 82.5  | 73.1  | 63.6  | 52.8  | 43.3  | 33.8  |
| 145°   | 94.7  | 93.3  | 89.3  | 83.9  | 78.5  | 70.3  | 62.2  | 54.1  | 44.6  | 36.5  | 27.1  |
| 147.5° | 79.8  | 78.5  | 75.8  | 71.7  | 66.3  | 59.5  | 52.8  | 44.6  | 37.9  | 29.8  | 21.6  |
| 150°   | 66.3  | 64.9  | 63.6  | 58.2  | 55.5  | 48.7  | 43.3  | 36.5  | 31.1  | 23.0  | 17.6  |
| 152.5° | 54.1  | 54.1  | 51.4  | 47.4  | 44.6  | 39.2  | 35.2  | 29.8  | 24.4  | 18.9  | 13.5  |
| 155°   | 43.3  | 41.9  | 40.6  | 37.9  | 35.2  | 31.1  | 27.1  | 23.0  | 18.9  | 13.5  | 9.5   |
| 157.5° | 33.8  | 32.5  | 31.1  | 28.4  | 25.7  | 24.4  | 20.3  | 16.2  | 12.2  | 9.5   | 6.8   |
| 160°   | 24.4  | 23.0  | 21.6  | 20.3  | 18.9  | 16.2  | 13.5  | 10.8  | 8.1   | 5.4   | 4.1   |
| 162.5° | 16.2  | 14.9  | 14.9  | 13.5  | 12.2  | 9.5   | 8.1   | 6.8   | 5.4   | 4.1   | 2.7   |
| 165°   | 8.1   | 8.1   | 6.8   | 6.8   | 5.4   | 4.1   | 4.1   | 4.1   | 2.7   | 2.7   | 1.4   |
| 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: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5°   | 1275.7 | 1275.7 | 1281.2 | 1279.8 | 1275.7 | 1283.9 | 1293.3 |
| 5°     | 1271.7 | 1271.7 | 1275.7 | 1275.7 | 1271.7 | 1279.8 | 1287.9 |
| 7.5°   | 1264.9 | 1263.6 | 1267.6 | 1267.6 | 1262.2 | 1269.0 | 1278.5 |
| 10°    | 1252.7 | 1251.4 | 1255.5 | 1255.5 | 1250.0 | 1256.8 | 1264.9 |
| 12.5°  | 1239.2 | 1236.5 | 1240.6 | 1239.2 | 1233.8 | 1240.6 | 1248.7 |
| 15°    | 1221.6 | 1220.3 | 1223.0 | 1220.3 | 1214.9 | 1221.6 | 1229.7 |
| 17.5°  | 1204.0 | 1200.0 | 1201.3 | 1201.3 | 1191.9 | 1198.6 | 1205.4 |
| 20°    | 1181.0 | 1175.6 | 1177.0 | 1175.6 | 1168.9 | 1172.9 | 1181.0 |
| 22.5°  | 1158.0 | 1149.9 | 1149.9 | 1148.6 | 1140.5 | 1145.9 | 1152.6 |
| 25°    | 1129.6 | 1120.2 | 1120.2 | 1118.8 | 1109.3 | 1113.4 | 1120.2 |
| 27.5°  | 1101.2 | 1091.8 | 1087.7 | 1086.3 | 1076.9 | 1076.9 | 1086.3 |
| 30°    | 1071.5 | 1057.9 | 1055.2 | 1051.2 | 1041.7 | 1041.7 | 1049.8 |
| 32.5°  | 1043.1 | 1024.1 | 1018.7 | 1013.3 | 1003.8 | 1002.5 | 1011.9 |
| 35°    | 1005.2 | 990.3  | 980.8  | 975.4  | 964.6  | 961.9  | 970.0  |
| 37.5°  | 974.1  | 955.1  | 941.6  | 934.8  | 924.0  | 919.9  | 930.8  |
| 40°    | 940.2  | 919.9  | 902.4  | 898.3  | 882.1  | 876.7  | 886.1  |
| 42.5°  | 902.4  | 880.7  | 863.1  | 855.0  | 842.8  | 837.4  | 838.8  |
| 45°    | 864.5  | 841.5  | 822.5  | 811.7  | 799.5  | 790.1  | 795.5  |
| 47.5°  | 825.2  | 805.0  | 782.0  | 765.7  | 750.8  | 744.1  | 746.8  |
| 50°    | 786.0  | 761.7  | 740.0  | 722.4  | 704.8  | 696.7  | 702.1  |
| 52.5°  | 746.8  | 721.1  | 696.7  | 677.8  | 657.5  | 649.4  | 650.7  |
| 55°    | 708.9  | 681.8  | 653.4  | 633.1  | 614.2  | 602.0  | 599.3  |
| 57.5°  | 671.0  | 641.3  | 611.5  | 588.5  | 564.1  | 553.3  | 549.3  |
| 60°    | 630.4  | 599.3  | 568.2  | 541.1  | 515.4  | 503.3  | 497.9  |
| 62.5°  | 592.6  | 558.7  | 523.6  | 495.1  | 469.4  | 453.2  | 449.1  |
| 65°    | 556.0  | 516.8  | 481.6  | 449.1  | 420.7  | 403.2  | 397.7  |
| 67.5°  | 516.8  | 476.2  | 438.3  | 403.2  | 376.1  | 353.1  | 350.4  |
| 70°    | 480.3  | 437.0  | 395.0  | 358.5  | 328.7  | 305.7  | 294.9  |
| 72.5°  | 443.7  | 399.1  | 355.8  | 316.6  | 278.7  | 257.0  | 248.9  |
| 75°    | 408.6  | 362.6  | 316.6  | 276.0  | 234.0  | 208.3  | 200.2  |
| 77.5°  | 376.1  | 328.7  | 280.0  | 235.4  | 196.2  | 163.7  | 152.9  |
| 80°    | 345.0  | 296.3  | 244.9  | 198.9  | 156.9  | 121.8  | 109.6  |
| 82.5°  | 312.5  | 266.5  | 213.8  | 165.0  | 121.8  | 85.2   | 70.3   |
| 85°    | 284.1  | 238.1  | 185.3  | 136.6  | 93.3   | 54.1   | 37.9   |
| 87.5°  | 261.1  | 211.0  | 163.7  | 115.0  | 70.3   | 31.1   | 10.8   |
| 90°    | 238.1  | 189.4  | 142.1  | 94.7   | 52.8   | 17.6   | 1.4    |
| 92.5°  | 217.8  | 171.8  | 124.5  | 81.2   | 40.6   | 12.2   | 1.4    |
| 95°    | 198.9  | 154.2  | 109.6  | 67.6   | 32.5   | 8.1    | 1.4    |
| 97.5°  | 181.3  | 139.3  | 97.4   | 58.2   | 27.1   | 6.8    | 1.4    |
| 100°   | 166.4  | 125.8  | 86.6   | 51.4   | 23.0   | 5.4    | 1.4    |
| 102.5° | 151.5  | 113.6  | 77.1   | 44.6   | 20.3   | 4.1    | 1.4    |
| 105°   | 139.3  | 102.8  | 69.0   | 40.6   | 17.6   | 4.1    | 1.4    |
| 107.5° | 127.2  | 93.3   | 62.2   | 35.2   | 14.9   | 2.7    | 1.4    |
| 110°   | 115.0  | 85.2   | 55.5   | 31.1   | 13.5   | 2.7    | 1.4    |



TEST NUMBER: P1213508

CATALOG NUMBER: 4SNLED-LD5-65HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|-------|------|------|------|------|------|------|
| 112.5° | 105.5 | 77.1 | 50.1 | 28.4 | 10.8 | 2.7  | 1.4  |
| 115°   | 96.1  | 69.0 | 44.6 | 24.4 | 9.5  | 1.4  | 1.4  |
| 117.5° | 86.6  | 62.2 | 39.2 | 21.6 | 8.1  | 1.4  | 1.4  |
| 120°   | 78.5  | 55.5 | 35.2 | 18.9 | 6.8  | 1.4  | 1.4  |
| 122.5° | 70.3  | 50.1 | 31.1 | 16.2 | 5.4  | 1.4  | 1.4  |
| 125°   | 63.6  | 44.6 | 27.1 | 13.5 | 4.1  | 1.4  | 1.4  |
| 127.5° | 56.8  | 39.2 | 24.4 | 12.2 | 4.1  | 1.4  | 1.4  |
| 130°   | 50.1  | 35.2 | 20.3 | 9.5  | 2.7  | 1.4  | 1.4  |
| 132.5° | 44.6  | 29.8 | 17.6 | 8.1  | 2.7  | 1.4  | 1.4  |
| 135°   | 39.2  | 25.7 | 14.9 | 5.4  | 2.7  | 1.4  | 1.4  |
| 137.5° | 33.8  | 21.6 | 12.2 | 4.1  | 1.4  | 1.4  | 1.4  |
| 140°   | 28.4  | 18.9 | 9.5  | 4.1  | 1.4  | 1.4  | 1.4  |
| 142.5° | 24.4  | 14.9 | 6.8  | 2.7  | 1.4  | 1.4  | 1.4  |
| 145°   | 18.9  | 12.2 | 5.4  | 2.7  | 1.4  | 1.4  | 1.4  |
| 147.5° | 14.9  | 9.5  | 4.1  | 2.7  | 1.4  | 1.4  | 1.4  |
| 150°   | 10.8  | 6.8  | 4.1  | 1.4  | 1.4  | 1.4  | 1.4  |
| 152.5° | 8.1   | 5.4  | 2.7  | 1.4  | 1.4  | 1.4  | 1.4  |
| 155°   | 5.4   | 4.1  | 2.7  | 1.4  | 1.4  | 1.4  | 1.4  |
| 157.5° | 4.1   | 2.7  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  |
| 160°   | 2.7   | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  |
| 162.5° | 1.4   | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  |
| 165°   | 1.4   | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  |
| 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)