

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: P1213166

Luminaire Tested: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213166  
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-LD5-70SL-LW-UNV-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

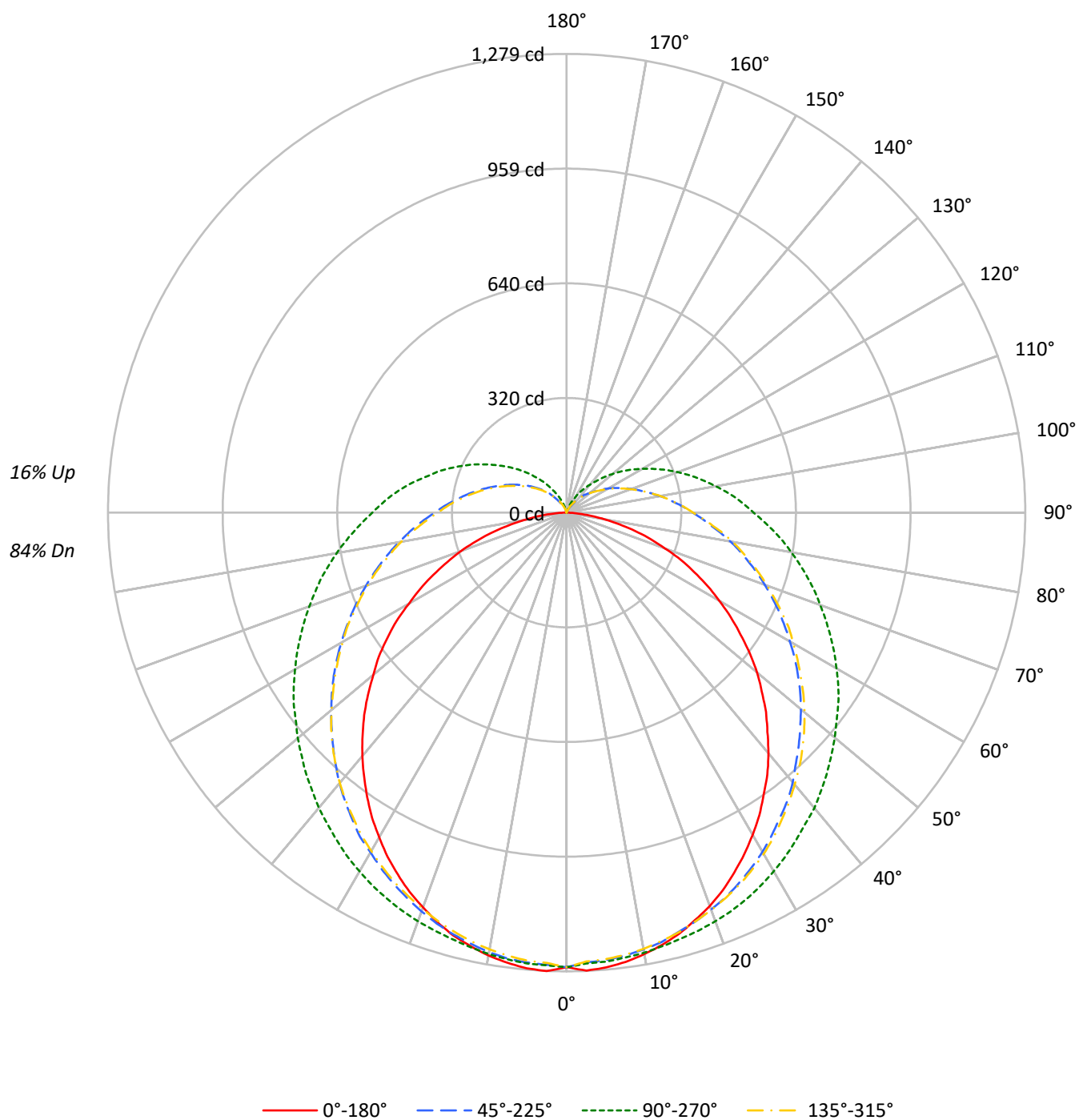
Lumens per Lamp: N/A  
Luminaire Lumens: 5506.0 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 70  
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: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213166

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

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 10241 | 10241 | 10241 | 10241 |
| 5°  | 10296 | 9869  | 10317 | 9912  |
| 10° | 10200 | 9589  | 10234 | 9620  |
| 15° | 10082 | 9349  | 10126 | 9359  |
| 20° | 9924  | 9174  | 9958  | 9174  |
| 25° | 9728  | 9018  | 9787  | 9008  |
| 30° | 9509  | 8858  | 9582  | 8858  |
| 35° | 9253  | 8709  | 9357  | 8720  |
| 40° | 9001  | 8622  | 9111  | 8622  |
| 45° | 8712  | 8531  | 8845  | 8542  |
| 50° | 8409  | 8477  | 8523  | 8500  |
| 55° | 7987  | 8485  | 8239  | 8522  |
| 60° | 7543  | 8510  | 7789  | 8563  |
| 65° | 7043  | 8597  | 7355  | 8681  |
| 70° | 6341  | 8754  | 6837  | 8878  |
| 75° | 5534  | 9041  | 6056  | 9214  |
| 80° | 4281  | 9464  | 4862  | 9683  |
| 85° | 2555  | 10144 | 3197  | 10426 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 11655 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.1  | 2.2       |
| 10°-20°   | 345.0  | 6.3       |
| 20°-30°   | 529.0  | 9.6       |
| 30°-40°   | 652.6  | 11.9      |
| 40°-50°   | 708.1  | 12.9      |
| 50°-60°   | 697.9  | 12.7      |
| 60°-70°   | 631.0  | 11.5      |
| 70°-80°   | 525.7  | 9.5       |
| 80°-90°   | 407.1  | 7.4       |
| 90°-100°  | 308.8  | 5.6       |
| 100°-110° | 228.5  | 4.1       |
| 110°-120° | 158.9  | 2.9       |
| 120°-130° | 101.4  | 1.8       |
| 130°-140° | 56.9   | 1.0       |
| 140°-150° | 26.0   | 0.5       |
| 150°-160° | 8.0    | 0.1       |
| 160°-170° | 1.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 994.1  | 18.1      |
| 0°-40°    | 1646.7 | 29.9      |
| 0°-60°    | 3052.7 | 55.4      |
| 0°-90°    | 4616.4 | 83.8      |
| 90°-120°  | 696.2  | 12.6      |
| 90°-150°  | 880.5  | 16.0      |
| 90°-180°  | 890.0  | 16.2      |
| 0°-180°   | 5506.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1267 | 1267 | 1267 | 1267 | 1267 |      |
| 5°   | 1273 | 1257 | 1275 | 1262 | 1273 | 121  |
| 15°  | 1215 | 1230 | 1220 | 1231 | 1215 | 342  |
| 25°  | 1107 | 1188 | 1114 | 1187 | 1107 | 510  |
| 35°  | 958  | 1115 | 969  | 1116 | 958  | 600  |
| 45°  | 786  | 1027 | 798  | 1028 | 786  | 606  |
| 55°  | 592  | 925  | 611  | 929  | 592  | 530  |
| 65°  | 393  | 812  | 410  | 820  | 393  | 390  |
| 75°  | 198  | 695  | 217  | 708  | 198  | 210  |
| 85°  | 37   | 579  | 47   | 595  | 37   | 45   |
| 90°  | 1    | 521  | 3    | 541  | 1    | 2    |
| 95°  | 1    | 473  | 1    | 496  | 1    | 1    |
| 105° | 1    | 376  | 1    | 398  | 1    | 1    |
| 115° | 1    | 286  | 1    | 312  | 1    | 1    |
| 125° | 1    | 206  | 1    | 229  | 1    | 1    |
| 135° | 1    | 134  | 1    | 158  | 1    | 1    |
| 145° | 1    | 78   | 1    | 95   | 1    | 1    |
| 155° | 1    | 32   | 1    | 44   | 1    | 1    |
| 165° | 1    | 5    | 1    | 8    | 1    | 0    |
| 175° | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0    | 0    | 0    | 0    | 0    | 0    |

TEST NUMBER: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 |
| 2.5°   | 1278.0 | 1278.0 | 1276.7 | 1274.0 | 1275.3 | 1279.4 | 1276.7 | 1270.0 | 1266.0 | 1255.3 | 1258.0 |
| 5°     | 1272.7 | 1272.7 | 1271.3 | 1268.7 | 1270.0 | 1275.3 | 1272.7 | 1267.3 | 1262.0 | 1252.6 | 1256.6 |
| 7.5°   | 1263.3 | 1263.3 | 1262.0 | 1259.3 | 1262.0 | 1267.3 | 1264.6 | 1259.3 | 1255.3 | 1245.9 | 1249.9 |
| 10°    | 1249.9 | 1251.3 | 1249.9 | 1245.9 | 1251.3 | 1256.6 | 1255.3 | 1248.6 | 1244.6 | 1236.6 | 1240.6 |
| 12.5°  | 1233.9 | 1235.2 | 1233.9 | 1232.6 | 1235.2 | 1243.3 | 1240.6 | 1235.2 | 1232.6 | 1225.9 | 1229.9 |
| 15°    | 1215.2 | 1216.5 | 1213.8 | 1213.8 | 1216.5 | 1224.5 | 1224.5 | 1219.2 | 1216.5 | 1209.8 | 1217.9 |
| 17.5°  | 1191.1 | 1192.5 | 1191.1 | 1191.1 | 1193.8 | 1201.8 | 1203.2 | 1200.5 | 1197.8 | 1195.1 | 1203.2 |
| 20°    | 1167.1 | 1165.7 | 1165.7 | 1164.4 | 1169.7 | 1181.8 | 1180.4 | 1180.4 | 1177.8 | 1177.8 | 1187.1 |
| 22.5°  | 1139.0 | 1139.0 | 1137.6 | 1137.6 | 1144.3 | 1155.0 | 1155.0 | 1157.7 | 1155.0 | 1160.4 | 1168.4 |
| 25°    | 1106.9 | 1108.2 | 1106.9 | 1109.6 | 1114.9 | 1127.0 | 1128.3 | 1132.3 | 1133.6 | 1139.0 | 1148.3 |
| 27.5°  | 1073.5 | 1074.8 | 1073.5 | 1076.2 | 1085.5 | 1094.9 | 1101.6 | 1106.9 | 1108.2 | 1116.3 | 1128.3 |
| 30°    | 1037.4 | 1037.4 | 1038.7 | 1041.4 | 1052.1 | 1066.8 | 1072.1 | 1078.8 | 1078.8 | 1092.2 | 1104.2 |
| 32.5°  | 1000.0 | 1000.0 | 1000.0 | 1005.3 | 1017.3 | 1034.7 | 1041.4 | 1049.4 | 1052.1 | 1065.5 | 1078.8 |
| 35°    | 958.5  | 959.8  | 959.8  | 963.9  | 979.9  | 997.3  | 1006.6 | 1016.0 | 1021.3 | 1037.4 | 1050.8 |
| 37.5°  | 919.7  | 922.4  | 918.4  | 923.8  | 946.5  | 961.2  | 971.9  | 981.2  | 990.6  | 1012.0 | 1022.7 |
| 40°    | 875.6  | 878.3  | 877.0  | 887.7  | 906.4  | 925.1  | 937.1  | 946.5  | 959.8  | 981.2  | 993.3  |
| 42.5°  | 828.8  | 831.5  | 834.2  | 846.2  | 866.3  | 885.0  | 899.7  | 911.7  | 927.8  | 946.5  | 966.5  |
| 45°    | 786.1  | 786.1  | 790.1  | 804.8  | 826.2  | 846.2  | 863.6  | 877.0  | 895.7  | 915.7  | 935.8  |
| 47.5°  | 737.9  | 739.3  | 744.6  | 762.0  | 784.7  | 808.8  | 824.8  | 842.2  | 862.3  | 883.6  | 906.4  |
| 50°    | 693.8  | 693.8  | 701.8  | 720.6  | 741.9  | 768.7  | 786.1  | 806.1  | 827.5  | 852.9  | 875.6  |
| 52.5°  | 643.0  | 645.7  | 657.7  | 675.1  | 703.2  | 727.2  | 747.3  | 768.7  | 794.1  | 820.8  | 846.2  |
| 55°    | 592.2  | 597.6  | 606.9  | 631.0  | 660.4  | 683.1  | 707.2  | 733.9  | 758.0  | 787.4  | 816.8  |
| 57.5°  | 542.8  | 546.8  | 561.5  | 585.5  | 616.3  | 644.4  | 669.8  | 695.2  | 724.6  | 754.0  | 784.7  |
| 60°    | 492.0  | 497.3  | 514.7  | 538.7  | 572.2  | 601.6  | 631.0  | 657.7  | 688.5  | 719.2  | 751.3  |
| 62.5°  | 443.8  | 447.8  | 467.9  | 496.0  | 529.4  | 561.5  | 590.9  | 623.0  | 656.4  | 685.8  | 717.9  |
| 65°    | 393.0  | 399.7  | 422.4  | 447.8  | 486.6  | 518.7  | 552.1  | 586.9  | 621.6  | 653.7  | 684.5  |
| 67.5°  | 346.2  | 350.3  | 374.3  | 403.7  | 442.5  | 478.6  | 513.3  | 550.8  | 586.9  | 620.3  | 651.0  |
| 70°    | 291.4  | 304.8  | 328.9  | 359.6  | 401.1  | 438.5  | 475.9  | 514.7  | 553.4  | 588.2  | 617.6  |
| 72.5°  | 246.0  | 256.7  | 283.4  | 316.8  | 356.9  | 401.1  | 439.8  | 481.3  | 520.0  | 556.1  | 586.9  |
| 75°    | 197.9  | 208.5  | 239.3  | 276.7  | 318.2  | 365.0  | 405.1  | 447.8  | 487.9  | 524.0  | 556.1  |
| 77.5°  | 151.1  | 164.4  | 197.9  | 236.6  | 282.1  | 330.2  | 371.6  | 414.4  | 455.9  | 494.6  | 526.7  |
| 80°    | 108.3  | 123.0  | 159.1  | 203.2  | 247.3  | 295.4  | 340.9  | 383.7  | 425.1  | 463.9  | 497.3  |
| 82.5°  | 69.5   | 85.6   | 124.3  | 168.4  | 215.2  | 263.4  | 310.1  | 352.9  | 394.4  | 433.1  | 467.9  |
| 85°    | 37.4   | 54.8   | 94.9   | 139.0  | 185.8  | 233.9  | 280.7  | 326.2  | 366.3  | 402.4  | 439.8  |
| 87.5°  | 10.7   | 32.1   | 70.9   | 115.0  | 163.1  | 207.2  | 252.7  | 298.1  | 338.2  | 377.0  | 410.4  |
| 90°    | 1.3    | 18.7   | 53.5   | 94.9   | 141.7  | 184.5  | 229.9  | 272.7  | 312.8  | 351.6  | 385.0  |
| 92.5°  | 1.3    | 12.0   | 41.4   | 78.9   | 121.7  | 165.8  | 211.2  | 252.7  | 290.1  | 328.9  | 362.3  |
| 95°    | 1.3    | 9.4    | 33.4   | 66.8   | 106.9  | 148.4  | 191.2  | 231.3  | 270.0  | 306.1  | 339.6  |
| 97.5°  | 1.3    | 6.7    | 26.7   | 57.5   | 93.6   | 132.3  | 173.8  | 213.9  | 251.3  | 286.1  | 316.8  |
| 100°   | 1.3    | 5.3    | 21.4   | 49.5   | 81.5   | 119.0  | 156.4  | 195.2  | 231.3  | 264.7  | 296.8  |
| 102.5° | 1.3    | 4.0    | 18.7   | 41.4   | 72.2   | 105.6  | 141.7  | 177.8  | 212.6  | 244.6  | 276.7  |
| 105°   | 1.3    | 4.0    | 16.0   | 36.1   | 64.2   | 94.9   | 128.3  | 163.1  | 195.2  | 225.9  | 255.3  |
| 107.5° | 1.3    | 2.7    | 13.4   | 30.7   | 56.1   | 85.6   | 116.3  | 149.7  | 179.1  | 208.5  | 236.6  |
| 110°   | 1.3    | 2.7    | 10.7   | 28.1   | 49.5   | 76.2   | 105.6  | 136.4  | 164.4  | 192.5  | 219.2  |

TEST NUMBER: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15°  | 20°  | 25°  | 30°  | 35°   | 40°   | 45°   | 50°   |
|--------|-----|-----|-----|------|------|------|------|-------|-------|-------|-------|
| 112.5° | 1.3 | 2.7 | 9.4 | 24.1 | 42.8 | 68.2 | 94.9 | 123.0 | 149.7 | 177.8 | 201.9 |
| 115°   | 1.3 | 2.7 | 8.0 | 21.4 | 40.1 | 58.8 | 85.6 | 111.0 | 137.7 | 163.1 | 185.8 |
| 117.5° | 1.3 | 2.7 | 6.7 | 17.4 | 34.8 | 53.5 | 74.9 | 100.3 | 124.3 | 148.4 | 169.8 |
| 120°   | 1.3 | 2.7 | 5.3 | 16.0 | 30.7 | 48.1 | 66.8 | 89.6  | 112.3 | 135.0 | 157.7 |
| 122.5° | 1.3 | 1.3 | 5.3 | 13.4 | 26.7 | 42.8 | 61.5 | 78.9  | 100.3 | 121.7 | 141.7 |
| 125°   | 1.3 | 1.3 | 5.3 | 12.0 | 22.7 | 38.8 | 54.8 | 70.9  | 89.6  | 108.3 | 125.7 |
| 127.5° | 1.3 | 1.3 | 4.0 | 9.4  | 20.1 | 33.4 | 48.1 | 65.5  | 78.9  | 96.3  | 113.6 |
| 130°   | 1.3 | 1.3 | 4.0 | 8.0  | 17.4 | 28.1 | 42.8 | 57.5  | 73.5  | 85.6  | 100.3 |
| 132.5° | 1.3 | 1.3 | 4.0 | 6.7  | 13.4 | 22.7 | 36.1 | 49.5  | 64.2  | 77.5  | 89.6  |
| 135°   | 1.3 | 1.3 | 2.7 | 5.3  | 10.7 | 18.7 | 29.4 | 41.4  | 56.1  | 69.5  | 81.5  |
| 137.5° | 1.3 | 1.3 | 2.7 | 5.3  | 8.0  | 16.0 | 22.7 | 33.4  | 46.8  | 58.8  | 70.9  |
| 140°   | 1.3 | 1.3 | 2.7 | 4.0  | 6.7  | 12.0 | 18.7 | 26.7  | 37.4  | 48.1  | 61.5  |
| 142.5° | 1.3 | 1.3 | 1.3 | 4.0  | 5.3  | 9.4  | 14.7 | 21.4  | 29.4  | 38.8  | 49.5  |
| 145°   | 1.3 | 1.3 | 1.3 | 4.0  | 5.3  | 6.7  | 12.0 | 17.4  | 22.7  | 29.4  | 38.8  |
| 147.5° | 1.3 | 1.3 | 1.3 | 2.7  | 4.0  | 5.3  | 9.4  | 13.4  | 17.4  | 22.7  | 28.1  |
| 150°   | 1.3 | 1.3 | 1.3 | 2.7  | 4.0  | 5.3  | 6.7  | 9.4   | 13.4  | 18.7  | 22.7  |
| 152.5° | 1.3 | 1.3 | 1.3 | 2.7  | 2.7  | 4.0  | 5.3  | 6.7   | 9.4   | 13.4  | 16.0  |
| 155°   | 1.3 | 1.3 | 1.3 | 1.3  | 2.7  | 4.0  | 5.3  | 5.3   | 6.7   | 9.4   | 12.0  |
| 157.5° | 1.3 | 1.3 | 1.3 | 1.3  | 2.7  | 2.7  | 4.0  | 4.0   | 5.3   | 5.3   | 8.0   |
| 160°   | 1.3 | 1.3 | 1.3 | 1.3  | 1.3  | 2.7  | 2.7  | 4.0   | 4.0   | 4.0   | 4.0   |
| 162.5° | 1.3 | 1.3 | 1.3 | 1.3  | 1.3  | 1.3  | 2.7  | 2.7   | 2.7   | 4.0   | 4.0   |
| 165°   | 1.3 | 1.3 | 1.3 | 1.3  | 1.3  | 1.3  | 1.3  | 1.3   | 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   |

TEST NUMBER: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 |
| 2.5°   | 1258.0 | 1259.3 | 1263.3 | 1263.3 | 1260.6 | 1260.6 | 1259.3 | 1258.0 | 1259.3 | 1262.0 | 1262.0 |
| 5°     | 1255.3 | 1256.6 | 1260.6 | 1262.0 | 1259.3 | 1258.0 | 1258.0 | 1256.6 | 1258.0 | 1260.6 | 1260.6 |
| 7.5°   | 1249.9 | 1251.3 | 1255.3 | 1256.6 | 1254.0 | 1254.0 | 1252.6 | 1251.3 | 1254.0 | 1255.3 | 1255.3 |
| 10°    | 1241.9 | 1243.3 | 1248.6 | 1249.9 | 1248.6 | 1247.3 | 1247.3 | 1245.9 | 1247.3 | 1249.9 | 1249.9 |
| 12.5°  | 1231.2 | 1233.9 | 1240.6 | 1240.6 | 1240.6 | 1239.2 | 1239.2 | 1237.9 | 1239.2 | 1241.9 | 1240.6 |
| 15°    | 1219.2 | 1224.5 | 1229.9 | 1232.6 | 1232.6 | 1232.6 | 1231.2 | 1229.9 | 1232.6 | 1233.9 | 1232.6 |
| 17.5°  | 1205.8 | 1212.5 | 1220.5 | 1223.2 | 1223.2 | 1224.5 | 1223.2 | 1221.9 | 1224.5 | 1224.5 | 1223.2 |
| 20°    | 1192.5 | 1199.1 | 1207.2 | 1209.8 | 1212.5 | 1213.8 | 1213.8 | 1212.5 | 1213.8 | 1215.2 | 1213.8 |
| 22.5°  | 1175.1 | 1183.1 | 1192.5 | 1196.5 | 1199.1 | 1201.8 | 1201.8 | 1201.8 | 1203.2 | 1204.5 | 1201.8 |
| 25°    | 1156.4 | 1165.7 | 1176.4 | 1180.4 | 1185.8 | 1187.1 | 1188.4 | 1188.4 | 1189.8 | 1191.1 | 1187.1 |
| 27.5°  | 1136.3 | 1147.0 | 1157.7 | 1164.4 | 1168.4 | 1171.1 | 1171.1 | 1172.4 | 1173.7 | 1175.1 | 1171.1 |
| 30°    | 1112.2 | 1128.3 | 1137.6 | 1143.0 | 1148.3 | 1152.4 | 1153.7 | 1155.0 | 1156.4 | 1157.7 | 1153.7 |
| 32.5°  | 1090.9 | 1104.2 | 1116.3 | 1122.9 | 1129.6 | 1135.0 | 1136.3 | 1136.3 | 1139.0 | 1139.0 | 1135.0 |
| 35°    | 1065.5 | 1081.5 | 1093.5 | 1100.2 | 1108.2 | 1112.2 | 1114.9 | 1114.9 | 1117.6 | 1117.6 | 1113.6 |
| 37.5°  | 1040.1 | 1056.1 | 1069.5 | 1077.5 | 1086.8 | 1092.2 | 1093.5 | 1093.5 | 1096.2 | 1096.2 | 1090.9 |
| 40°    | 1013.3 | 1030.7 | 1045.4 | 1054.8 | 1062.8 | 1069.5 | 1070.8 | 1074.8 | 1074.8 | 1073.5 | 1068.1 |
| 42.5°  | 986.6  | 1002.6 | 1018.7 | 1029.4 | 1040.1 | 1046.7 | 1049.4 | 1050.8 | 1050.8 | 1049.4 | 1045.4 |
| 45°    | 957.2  | 975.9  | 990.6  | 1004.0 | 1014.7 | 1021.3 | 1025.4 | 1026.7 | 1026.7 | 1024.0 | 1020.0 |
| 47.5°  | 929.1  | 947.8  | 962.5  | 977.2  | 987.9  | 995.9  | 1000.0 | 1001.3 | 1000.0 | 998.6  | 994.6  |
| 50°    | 899.7  | 921.1  | 935.8  | 950.5  | 961.2  | 967.9  | 974.6  | 975.9  | 974.6  | 973.2  | 965.2  |
| 52.5°  | 868.9  | 891.7  | 907.7  | 922.4  | 934.4  | 942.5  | 947.8  | 949.2  | 949.2  | 946.5  | 941.1  |
| 55°    | 838.2  | 858.2  | 878.3  | 894.3  | 907.7  | 915.7  | 922.4  | 925.1  | 922.4  | 919.7  | 913.1  |
| 57.5°  | 810.1  | 828.8  | 848.9  | 866.3  | 879.6  | 890.3  | 895.7  | 898.4  | 895.7  | 891.7  | 885.0  |
| 60°    | 776.7  | 796.8  | 819.5  | 835.5  | 850.2  | 860.9  | 863.6  | 868.9  | 866.3  | 862.3  | 855.6  |
| 62.5°  | 744.6  | 768.7  | 788.7  | 808.8  | 820.8  | 832.8  | 838.2  | 840.9  | 838.2  | 834.2  | 827.5  |
| 65°    | 711.2  | 737.9  | 758.0  | 778.0  | 791.4  | 803.4  | 810.1  | 811.5  | 808.8  | 804.8  | 798.1  |
| 67.5°  | 680.4  | 705.8  | 727.2  | 748.6  | 760.7  | 772.7  | 779.4  | 782.0  | 779.4  | 774.0  | 767.3  |
| 70°    | 649.7  | 675.1  | 700.5  | 716.5  | 731.2  | 744.6  | 748.6  | 752.6  | 750.0  | 744.6  | 736.6  |
| 72.5°  | 619.0  | 645.7  | 671.1  | 687.1  | 703.2  | 715.2  | 720.6  | 724.6  | 721.9  | 716.5  | 707.2  |
| 75°    | 586.9  | 614.9  | 640.3  | 657.7  | 673.8  | 685.8  | 691.1  | 695.2  | 692.5  | 687.1  | 676.4  |
| 77.5°  | 557.5  | 585.5  | 609.6  | 628.3  | 644.4  | 655.0  | 664.4  | 665.7  | 663.1  | 657.7  | 647.0  |
| 80°    | 526.7  | 554.8  | 580.2  | 598.9  | 614.9  | 625.6  | 632.3  | 636.3  | 633.7  | 628.3  | 617.6  |
| 82.5°  | 500.0  | 525.4  | 550.8  | 569.5  | 585.5  | 598.9  | 604.2  | 608.3  | 606.9  | 598.9  | 590.9  |
| 85°    | 470.6  | 500.0  | 520.0  | 540.1  | 556.1  | 569.5  | 573.5  | 578.8  | 577.5  | 570.8  | 560.1  |
| 87.5°  | 441.2  | 470.6  | 494.6  | 514.7  | 529.4  | 540.1  | 546.8  | 549.4  | 548.1  | 541.4  | 529.4  |
| 90°    | 417.1  | 443.8  | 467.9  | 489.3  | 501.3  | 513.3  | 520.0  | 521.4  | 521.4  | 513.3  | 504.0  |
| 92.5°  | 394.4  | 419.8  | 443.8  | 463.9  | 478.6  | 489.3  | 494.6  | 497.3  | 496.0  | 489.3  | 478.6  |
| 95°    | 369.0  | 397.0  | 419.8  | 439.8  | 454.5  | 465.2  | 470.6  | 473.2  | 471.9  | 465.2  | 454.5  |
| 97.5°  | 347.6  | 373.0  | 395.7  | 414.4  | 429.1  | 439.8  | 445.2  | 447.8  | 447.8  | 441.2  | 430.5  |
| 100°   | 326.2  | 351.6  | 373.0  | 391.7  | 405.1  | 415.8  | 421.1  | 422.4  | 421.1  | 415.8  | 405.1  |
| 102.5° | 304.8  | 328.9  | 350.3  | 367.6  | 382.3  | 391.7  | 397.0  | 398.4  | 398.4  | 391.7  | 381.0  |
| 105°   | 283.4  | 307.5  | 327.5  | 346.2  | 358.3  | 367.6  | 371.6  | 375.7  | 374.3  | 369.0  | 358.3  |
| 107.5° | 263.4  | 287.4  | 306.1  | 323.5  | 335.5  | 344.9  | 348.9  | 352.9  | 351.6  | 346.2  | 335.5  |
| 110°   | 244.6  | 267.4  | 284.7  | 302.1  | 312.8  | 322.2  | 328.9  | 330.2  | 327.5  | 322.2  | 312.8  |





TEST NUMBER: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 227.3 | 247.3 | 264.7 | 280.7 | 292.8 | 299.5 | 304.8 | 307.5 | 304.8 | 299.5 | 292.8 |
| 115°   | 208.5 | 228.6 | 246.0 | 260.7 | 271.4 | 279.4 | 283.4 | 286.1 | 283.4 | 278.1 | 271.4 |
| 117.5° | 191.2 | 209.9 | 227.3 | 242.0 | 251.3 | 258.0 | 262.0 | 264.7 | 262.0 | 258.0 | 251.3 |
| 120°   | 176.5 | 192.5 | 208.5 | 221.9 | 232.6 | 238.0 | 242.0 | 244.6 | 243.3 | 238.0 | 231.3 |
| 122.5° | 159.1 | 176.5 | 191.2 | 204.5 | 213.9 | 219.2 | 221.9 | 224.6 | 223.3 | 219.2 | 212.6 |
| 125°   | 144.4 | 159.1 | 173.8 | 185.8 | 195.2 | 200.5 | 203.2 | 205.9 | 204.5 | 200.5 | 192.5 |
| 127.5° | 128.3 | 144.4 | 156.4 | 168.4 | 175.1 | 183.1 | 184.5 | 187.2 | 185.8 | 181.8 | 175.1 |
| 130°   | 116.3 | 128.3 | 140.4 | 151.1 | 159.1 | 164.4 | 167.1 | 168.4 | 165.8 | 163.1 | 156.4 |
| 132.5° | 101.6 | 115.0 | 125.7 | 135.0 | 140.4 | 145.7 | 148.4 | 149.7 | 149.7 | 145.7 | 140.4 |
| 135°   | 90.9  | 100.3 | 109.6 | 119.0 | 124.3 | 129.7 | 132.3 | 133.7 | 132.3 | 129.7 | 124.3 |
| 137.5° | 81.5  | 89.6  | 96.3  | 104.3 | 111.0 | 113.6 | 116.3 | 116.3 | 115.0 | 113.6 | 109.6 |
| 140°   | 70.9  | 80.2  | 86.9  | 92.2  | 97.6  | 98.9  | 101.6 | 101.6 | 100.3 | 98.9  | 96.3  |
| 142.5° | 60.2  | 68.2  | 74.9  | 81.5  | 85.6  | 88.2  | 89.6  | 90.9  | 89.6  | 88.2  | 84.2  |
| 145°   | 48.1  | 57.5  | 64.2  | 68.2  | 73.5  | 74.9  | 76.2  | 77.5  | 76.2  | 74.9  | 70.9  |
| 147.5° | 37.4  | 45.5  | 52.1  | 57.5  | 61.5  | 62.8  | 64.2  | 65.5  | 64.2  | 61.5  | 60.2  |
| 150°   | 26.7  | 33.4  | 41.4  | 46.8  | 49.5  | 52.1  | 52.1  | 52.1  | 53.5  | 50.8  | 48.1  |
| 152.5° | 21.4  | 24.1  | 29.4  | 34.8  | 38.8  | 40.1  | 41.4  | 41.4  | 40.1  | 40.1  | 37.4  |
| 155°   | 14.7  | 17.4  | 21.4  | 25.4  | 29.4  | 30.7  | 32.1  | 32.1  | 30.7  | 30.7  | 29.4  |
| 157.5° | 9.4   | 12.0  | 14.7  | 17.4  | 21.4  | 22.7  | 24.1  | 24.1  | 24.1  | 22.7  | 21.4  |
| 160°   | 5.3   | 6.7   | 8.0   | 10.7  | 13.4  | 14.7  | 16.0  | 16.0  | 16.0  | 16.0  | 14.7  |
| 162.5° | 4.0   | 4.0   | 4.0   | 5.3   | 6.7   | 8.0   | 9.4   | 9.4   | 9.4   | 9.4   | 8.0   |
| 165°   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 4.0   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   |
| 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: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 |
| 2.5°   | 1260.6 | 1260.6 | 1262.0 | 1259.3 | 1251.3 | 1252.6 | 1252.6 | 1258.0 | 1260.6 | 1262.0 | 1268.7 |
| 5°     | 1258.0 | 1258.0 | 1260.6 | 1256.6 | 1249.9 | 1249.9 | 1249.9 | 1255.3 | 1256.6 | 1259.3 | 1264.6 |
| 7.5°   | 1254.0 | 1254.0 | 1255.3 | 1251.3 | 1243.3 | 1243.3 | 1241.9 | 1247.3 | 1249.9 | 1251.3 | 1256.6 |
| 10°    | 1247.3 | 1247.3 | 1248.6 | 1244.6 | 1235.2 | 1235.2 | 1233.9 | 1237.9 | 1239.2 | 1241.9 | 1245.9 |
| 12.5°  | 1237.9 | 1237.9 | 1237.9 | 1233.9 | 1224.5 | 1223.2 | 1221.9 | 1225.9 | 1225.9 | 1227.2 | 1231.2 |
| 15°    | 1229.9 | 1227.2 | 1227.2 | 1223.2 | 1213.8 | 1211.2 | 1208.5 | 1209.8 | 1212.5 | 1211.2 | 1213.8 |
| 17.5°  | 1220.5 | 1217.9 | 1215.2 | 1211.2 | 1199.1 | 1195.1 | 1192.5 | 1193.8 | 1192.5 | 1191.1 | 1193.8 |
| 20°    | 1209.8 | 1205.8 | 1204.5 | 1197.8 | 1185.8 | 1179.1 | 1173.7 | 1171.1 | 1172.4 | 1168.4 | 1169.7 |
| 22.5°  | 1197.8 | 1192.5 | 1189.8 | 1181.8 | 1169.7 | 1161.7 | 1155.0 | 1149.7 | 1148.3 | 1143.0 | 1144.3 |
| 25°    | 1183.1 | 1176.4 | 1172.4 | 1165.7 | 1152.4 | 1143.0 | 1135.0 | 1127.0 | 1122.9 | 1116.3 | 1114.9 |
| 27.5°  | 1165.7 | 1159.0 | 1153.7 | 1147.0 | 1133.6 | 1121.6 | 1112.2 | 1101.6 | 1096.2 | 1088.2 | 1084.2 |
| 30°    | 1148.3 | 1140.3 | 1132.3 | 1127.0 | 1112.2 | 1098.9 | 1084.2 | 1074.8 | 1066.8 | 1057.4 | 1050.8 |
| 32.5°  | 1127.0 | 1118.9 | 1110.9 | 1102.9 | 1089.5 | 1073.5 | 1061.4 | 1046.7 | 1037.4 | 1026.7 | 1018.7 |
| 35°    | 1105.6 | 1094.9 | 1086.8 | 1076.2 | 1064.1 | 1045.4 | 1030.7 | 1016.0 | 1004.0 | 991.9  | 982.6  |
| 37.5°  | 1081.5 | 1073.5 | 1061.4 | 1052.1 | 1037.4 | 1018.7 | 1002.6 | 983.9  | 973.2  | 957.2  | 945.1  |
| 40°    | 1058.8 | 1049.4 | 1037.4 | 1025.4 | 1010.6 | 989.3  | 971.9  | 950.5  | 938.5  | 919.7  | 907.7  |
| 42.5°  | 1036.0 | 1022.7 | 1010.6 | 997.3  | 981.2  | 961.2  | 939.8  | 918.4  | 902.4  | 885.0  | 867.6  |
| 45°    | 1010.6 | 995.9  | 981.2  | 966.5  | 950.5  | 930.4  | 907.7  | 885.0  | 864.9  | 848.9  | 827.5  |
| 47.5°  | 983.9  | 969.2  | 951.8  | 935.8  | 918.4  | 898.4  | 874.3  | 850.2  | 828.8  | 810.1  | 787.4  |
| 50°    | 957.2  | 942.5  | 923.8  | 906.4  | 886.3  | 866.3  | 840.9  | 812.8  | 790.1  | 766.0  | 746.0  |
| 52.5°  | 929.1  | 914.4  | 897.0  | 874.3  | 852.9  | 832.8  | 806.1  | 776.7  | 751.3  | 731.2  | 705.8  |
| 55°    | 901.0  | 886.3  | 866.3  | 843.5  | 822.2  | 796.8  | 771.4  | 741.9  | 713.9  | 689.8  | 664.4  |
| 57.5°  | 871.6  | 858.2  | 835.5  | 816.8  | 790.1  | 763.3  | 736.6  | 708.5  | 677.8  | 649.7  | 620.3  |
| 60°    | 842.2  | 827.5  | 806.1  | 783.4  | 756.6  | 729.9  | 701.8  | 671.1  | 639.0  | 608.3  | 581.5  |
| 62.5°  | 815.5  | 796.8  | 776.7  | 752.6  | 724.6  | 699.2  | 667.1  | 633.7  | 601.6  | 569.5  | 537.4  |
| 65°    | 784.7  | 764.7  | 746.0  | 721.9  | 692.5  | 663.1  | 631.0  | 597.6  | 562.8  | 528.0  | 496.0  |
| 67.5°  | 754.0  | 733.9  | 713.9  | 689.8  | 659.1  | 628.3  | 594.9  | 561.5  | 522.7  | 489.3  | 451.9  |
| 70°    | 723.2  | 707.2  | 681.8  | 656.4  | 628.3  | 594.9  | 561.5  | 525.4  | 485.3  | 449.2  | 410.4  |
| 72.5°  | 692.5  | 676.4  | 651.0  | 624.3  | 597.6  | 562.8  | 526.7  | 490.6  | 453.2  | 411.7  | 370.3  |
| 75°    | 663.1  | 643.0  | 620.3  | 594.9  | 566.8  | 530.7  | 494.6  | 457.2  | 413.1  | 374.3  | 331.5  |
| 77.5°  | 635.0  | 616.3  | 593.6  | 565.5  | 534.7  | 500.0  | 462.5  | 423.8  | 379.7  | 338.2  | 291.4  |
| 80°    | 604.2  | 585.5  | 562.8  | 534.7  | 504.0  | 470.6  | 430.5  | 390.4  | 347.6  | 302.1  | 254.0  |
| 82.5°  | 574.8  | 557.5  | 532.1  | 506.7  | 473.2  | 439.8  | 399.7  | 359.6  | 314.2  | 270.0  | 223.3  |
| 85°    | 544.1  | 526.7  | 502.6  | 475.9  | 443.8  | 407.7  | 370.3  | 330.2  | 284.7  | 239.3  | 192.5  |
| 87.5°  | 517.4  | 497.3  | 473.2  | 446.5  | 414.4  | 379.7  | 343.6  | 300.8  | 256.7  | 212.6  | 164.4  |
| 90°    | 489.3  | 470.6  | 446.5  | 419.8  | 387.7  | 352.9  | 315.5  | 275.4  | 232.6  | 187.2  | 141.7  |
| 92.5°  | 465.2  | 445.2  | 422.4  | 395.7  | 363.6  | 330.2  | 292.8  | 252.7  | 211.2  | 167.1  | 123.0  |
| 95°    | 441.2  | 421.1  | 399.7  | 373.0  | 340.9  | 307.5  | 270.0  | 231.3  | 191.2  | 148.4  | 106.9  |
| 97.5°  | 414.4  | 397.0  | 375.7  | 350.3  | 318.2  | 286.1  | 250.0  | 212.6  | 173.8  | 132.3  | 93.6   |
| 100°   | 393.0  | 373.0  | 352.9  | 326.2  | 296.8  | 266.0  | 229.9  | 193.8  | 156.4  | 117.6  | 81.5   |
| 102.5° | 369.0  | 350.3  | 330.2  | 304.8  | 275.4  | 244.6  | 211.2  | 176.5  | 141.7  | 105.6  | 70.9   |
| 105°   | 346.2  | 328.9  | 307.5  | 283.4  | 255.3  | 225.9  | 193.8  | 161.8  | 128.3  | 93.6   | 62.8   |
| 107.5° | 323.5  | 306.1  | 286.1  | 263.4  | 236.6  | 207.2  | 177.8  | 145.7  | 115.0  | 84.2   | 56.1   |
| 110°   | 300.8  | 284.7  | 266.0  | 243.3  | 217.9  | 191.2  | 163.1  | 133.7  | 102.9  | 74.9   | 49.5   |

TEST NUMBER: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 112.5° | 280.7 | 264.7 | 246.0 | 224.6 | 200.5 | 175.1 | 148.4 | 120.3 | 92.2 | 66.8 | 42.8 |
| 115°   | 260.7 | 246.0 | 227.3 | 208.5 | 184.5 | 160.4 | 135.0 | 108.3 | 82.9 | 60.2 | 37.4 |
| 117.5° | 240.6 | 225.9 | 208.5 | 189.8 | 168.4 | 145.7 | 121.7 | 96.3  | 74.9 | 53.5 | 33.4 |
| 120°   | 220.6 | 207.2 | 191.2 | 173.8 | 155.1 | 132.3 | 108.3 | 86.9  | 66.8 | 46.8 | 29.4 |
| 122.5° | 201.9 | 189.8 | 175.1 | 159.1 | 139.0 | 117.6 | 97.6  | 78.9  | 60.2 | 41.4 | 24.1 |
| 125°   | 184.5 | 172.5 | 159.1 | 143.0 | 124.3 | 105.6 | 88.2  | 70.9  | 52.1 | 36.1 | 20.1 |
| 127.5° | 167.1 | 155.1 | 141.7 | 127.0 | 112.3 | 94.9  | 78.9  | 62.8  | 46.8 | 32.1 | 17.4 |
| 130°   | 149.7 | 139.0 | 127.0 | 115.0 | 100.3 | 84.2  | 70.9  | 54.8  | 40.1 | 25.4 | 14.7 |
| 132.5° | 132.3 | 124.3 | 113.6 | 101.6 | 88.2  | 76.2  | 61.5  | 48.1  | 34.8 | 22.7 | 13.4 |
| 135°   | 117.6 | 109.6 | 100.3 | 89.6  | 78.9  | 66.8  | 53.5  | 41.4  | 29.4 | 18.7 | 10.7 |
| 137.5° | 104.3 | 97.6  | 88.2  | 78.9  | 69.5  | 57.5  | 46.8  | 34.8  | 24.1 | 16.0 | 8.0  |
| 140°   | 92.2  | 85.6  | 77.5  | 68.2  | 60.2  | 49.5  | 38.8  | 28.1  | 21.4 | 13.4 | 6.7  |
| 142.5° | 80.2  | 73.5  | 66.8  | 58.8  | 50.8  | 41.4  | 32.1  | 24.1  | 17.4 | 10.7 | 6.7  |
| 145°   | 68.2  | 62.8  | 56.1  | 49.5  | 41.4  | 33.4  | 26.7  | 20.1  | 13.4 | 8.0  | 5.3  |
| 147.5° | 56.1  | 52.1  | 45.5  | 40.1  | 33.4  | 26.7  | 21.4  | 16.0  | 10.7 | 6.7  | 4.0  |
| 150°   | 45.5  | 41.4  | 36.1  | 30.7  | 26.7  | 21.4  | 17.4  | 12.0  | 8.0  | 6.7  | 4.0  |
| 152.5° | 34.8  | 32.1  | 28.1  | 25.4  | 21.4  | 16.0  | 12.0  | 9.4   | 6.7  | 5.3  | 2.7  |
| 155°   | 28.1  | 25.4  | 22.7  | 18.7  | 16.0  | 12.0  | 9.4   | 6.7   | 5.3  | 4.0  | 2.7  |
| 157.5° | 20.1  | 18.7  | 16.0  | 13.4  | 10.7  | 8.0   | 6.7   | 6.7   | 4.0  | 2.7  | 1.3  |
| 160°   | 13.4  | 12.0  | 10.7  | 8.0   | 6.7   | 6.7   | 5.3   | 4.0   | 2.7  | 2.7  | 1.3  |
| 162.5° | 8.0   | 6.7   | 6.7   | 6.7   | 5.3   | 5.3   | 4.0   | 2.7   | 2.7  | 1.3  | 1.3  |
| 165°   | 5.3   | 5.3   | 5.3   | 4.0   | 4.0   | 4.0   | 2.7   | 1.3   | 1.3  | 1.3  | 1.3  |
| 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: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 |
| 2.5°   | 1268.7 | 1264.6 | 1270.0 | 1279.4 | 1280.7 | 1279.4 | 1276.7 | 1280.7 | 1286.0 | 1284.7 | 1275.3 |
| 5°     | 1266.0 | 1260.6 | 1266.0 | 1275.3 | 1275.3 | 1274.0 | 1272.7 | 1276.7 | 1282.0 | 1280.7 | 1272.7 |
| 7.5°   | 1258.0 | 1252.6 | 1258.0 | 1266.0 | 1267.3 | 1264.6 | 1264.6 | 1268.7 | 1274.0 | 1272.7 | 1266.0 |
| 10°    | 1247.3 | 1241.9 | 1244.6 | 1254.0 | 1256.6 | 1254.0 | 1254.0 | 1258.0 | 1264.6 | 1263.3 | 1255.3 |
| 12.5°  | 1231.2 | 1227.2 | 1229.9 | 1237.9 | 1240.6 | 1239.2 | 1237.9 | 1243.3 | 1249.9 | 1249.9 | 1241.9 |
| 15°    | 1213.8 | 1208.5 | 1211.2 | 1220.5 | 1221.9 | 1219.2 | 1220.5 | 1224.5 | 1232.6 | 1232.6 | 1225.9 |
| 17.5°  | 1193.8 | 1187.1 | 1191.1 | 1197.8 | 1199.1 | 1199.1 | 1199.1 | 1204.5 | 1213.8 | 1212.5 | 1207.2 |
| 20°    | 1171.1 | 1161.7 | 1164.4 | 1171.1 | 1173.7 | 1173.7 | 1173.7 | 1183.1 | 1189.8 | 1189.8 | 1184.4 |
| 22.5°  | 1144.3 | 1137.6 | 1137.6 | 1144.3 | 1148.3 | 1147.0 | 1147.0 | 1155.0 | 1164.4 | 1163.0 | 1163.0 |
| 25°    | 1113.6 | 1108.2 | 1105.6 | 1113.6 | 1114.9 | 1116.3 | 1118.9 | 1127.0 | 1137.6 | 1137.6 | 1139.0 |
| 27.5°  | 1081.5 | 1076.2 | 1074.8 | 1081.5 | 1082.8 | 1084.2 | 1086.8 | 1096.2 | 1106.9 | 1108.2 | 1110.9 |
| 30°    | 1050.8 | 1042.7 | 1040.1 | 1045.4 | 1048.1 | 1049.4 | 1049.4 | 1064.1 | 1073.5 | 1077.5 | 1082.8 |
| 32.5°  | 1014.7 | 1006.6 | 1000.0 | 1009.3 | 1010.6 | 1013.3 | 1014.7 | 1029.4 | 1040.1 | 1046.7 | 1054.8 |
| 35°    | 978.6  | 965.2  | 962.5  | 969.2  | 971.9  | 973.2  | 975.9  | 991.9  | 1006.6 | 1012.0 | 1022.7 |
| 37.5°  | 938.5  | 929.1  | 921.1  | 927.8  | 930.4  | 931.8  | 939.8  | 954.5  | 969.2  | 977.2  | 987.9  |
| 40°    | 901.0  | 889.0  | 882.3  | 886.3  | 889.0  | 890.3  | 899.7  | 915.7  | 933.1  | 942.5  | 955.8  |
| 42.5°  | 859.6  | 843.5  | 838.2  | 842.2  | 843.5  | 847.6  | 855.6  | 877.0  | 894.3  | 907.7  | 918.4  |
| 45°    | 818.1  | 806.1  | 794.1  | 798.1  | 799.4  | 802.1  | 814.1  | 836.9  | 855.6  | 871.6  | 883.6  |
| 47.5°  | 775.4  | 760.7  | 748.6  | 751.3  | 756.6  | 758.0  | 771.4  | 798.1  | 815.5  | 832.8  | 848.9  |
| 50°    | 732.6  | 712.5  | 703.2  | 703.2  | 705.8  | 712.5  | 729.9  | 756.6  | 775.4  | 795.4  | 812.8  |
| 52.5°  | 688.5  | 669.8  | 659.1  | 660.4  | 663.1  | 671.1  | 687.1  | 713.9  | 735.3  | 756.6  | 778.0  |
| 55°    | 644.4  | 624.3  | 613.6  | 610.9  | 613.6  | 624.3  | 643.0  | 671.1  | 692.5  | 717.9  | 740.6  |
| 57.5°  | 600.2  | 576.2  | 566.8  | 562.8  | 565.5  | 578.8  | 597.6  | 627.0  | 653.7  | 677.8  | 704.5  |
| 60°    | 552.1  | 533.4  | 517.4  | 508.0  | 514.7  | 532.1  | 552.1  | 582.9  | 610.9  | 637.7  | 667.1  |
| 62.5°  | 510.7  | 486.6  | 469.2  | 459.9  | 466.6  | 481.3  | 509.3  | 538.7  | 569.5  | 600.2  | 629.6  |
| 65°    | 463.9  | 439.8  | 419.8  | 410.4  | 417.1  | 434.5  | 462.5  | 494.6  | 528.0  | 558.8  | 593.6  |
| 67.5°  | 418.4  | 393.0  | 369.0  | 359.6  | 367.6  | 386.3  | 417.1  | 453.2  | 489.3  | 521.4  | 558.8  |
| 70°    | 374.3  | 346.2  | 320.8  | 314.2  | 319.5  | 344.9  | 374.3  | 410.4  | 447.8  | 485.3  | 524.0  |
| 72.5°  | 334.2  | 299.5  | 272.7  | 264.7  | 271.4  | 299.5  | 332.9  | 370.3  | 410.4  | 450.5  | 492.0  |
| 75°    | 287.4  | 255.3  | 225.9  | 216.6  | 224.6  | 250.0  | 291.4  | 331.5  | 374.3  | 417.1  | 455.9  |
| 77.5°  | 250.0  | 212.6  | 181.8  | 167.1  | 180.5  | 212.6  | 252.7  | 295.4  | 339.6  | 383.7  | 427.8  |
| 80°    | 211.2  | 172.5  | 139.0  | 123.0  | 137.7  | 172.5  | 212.6  | 259.3  | 308.8  | 352.9  | 393.0  |
| 82.5°  | 176.5  | 135.0  | 100.3  | 82.9   | 98.9   | 137.7  | 181.8  | 228.6  | 276.7  | 320.8  | 367.6  |
| 85°    | 144.4  | 101.6  | 65.5   | 46.8   | 69.5   | 104.3  | 151.1  | 199.2  | 248.7  | 294.1  | 339.6  |
| 87.5°  | 117.6  | 76.2   | 40.1   | 20.1   | 42.8   | 81.5   | 125.7  | 173.8  | 223.3  | 268.7  | 311.5  |
| 90°    | 96.3   | 54.8   | 21.4   | 2.7    | 25.4   | 61.5   | 104.3  | 151.1  | 197.9  | 244.6  | 287.4  |
| 92.5°  | 78.9   | 41.4   | 12.0   | 1.3    | 16.0   | 49.5   | 89.6   | 133.7  | 179.1  | 224.6  | 266.0  |
| 95°    | 65.5   | 32.1   | 8.0    | 1.3    | 12.0   | 38.8   | 76.2   | 119.0  | 161.8  | 205.9  | 247.3  |
| 97.5°  | 56.1   | 26.7   | 6.7    | 1.3    | 9.4    | 33.4   | 65.5   | 105.6  | 147.1  | 188.5  | 228.6  |
| 100°   | 48.1   | 21.4   | 5.3    | 1.3    | 8.0    | 28.1   | 57.5   | 93.6   | 132.3  | 172.5  | 211.2  |
| 102.5° | 41.4   | 17.4   | 4.0    | 1.3    | 6.7    | 24.1   | 50.8   | 84.2   | 119.0  | 157.7  | 195.2  |
| 105°   | 36.1   | 14.7   | 4.0    | 1.3    | 5.3    | 21.4   | 45.5   | 74.9   | 109.6  | 144.4  | 180.5  |
| 107.5° | 30.7   | 12.0   | 2.7    | 1.3    | 4.0    | 17.4   | 40.1   | 68.2   | 98.9   | 132.3  | 165.8  |
| 110°   | 26.7   | 10.7   | 2.7    | 1.3    | 4.0    | 16.0   | 34.8   | 61.5   | 89.6   | 120.3  | 152.4  |

TEST NUMBER: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210°  | 215°  |
|--------|------|------|------|------|------|------|------|------|------|-------|-------|
| 112.5° | 22.7 | 8.0  | 2.7  | 1.3  | 2.7  | 13.4 | 30.7 | 54.8 | 81.5 | 109.6 | 140.4 |
| 115°   | 20.1 | 6.7  | 1.3  | 1.3  | 2.7  | 12.0 | 28.1 | 49.5 | 73.5 | 100.3 | 128.3 |
| 117.5° | 16.0 | 5.3  | 1.3  | 1.3  | 1.3  | 9.4  | 24.1 | 44.1 | 66.8 | 92.2  | 117.6 |
| 120°   | 13.4 | 5.3  | 1.3  | 1.3  | 1.3  | 8.0  | 21.4 | 38.8 | 60.2 | 82.9  | 106.9 |
| 122.5° | 12.0 | 4.0  | 1.3  | 1.3  | 1.3  | 6.7  | 18.7 | 34.8 | 53.5 | 74.9  | 97.6  |
| 125°   | 10.7 | 4.0  | 1.3  | 1.3  | 1.3  | 5.3  | 16.0 | 30.7 | 48.1 | 66.8  | 88.2  |
| 127.5° | 8.0  | 4.0  | 1.3  | 1.3  | 1.3  | 4.0  | 14.7 | 26.7 | 42.8 | 60.2  | 78.9  |
| 130°   | 6.7  | 2.7  | 1.3  | 1.3  | 1.3  | 4.0  | 12.0 | 24.1 | 37.4 | 53.5  | 70.9  |
| 132.5° | 5.3  | 2.7  | 1.3  | 1.3  | 1.3  | 2.7  | 9.4  | 18.7 | 32.1 | 46.8  | 62.8  |
| 135°   | 5.3  | 2.7  | 1.3  | 1.3  | 1.3  | 2.7  | 6.7  | 16.0 | 26.7 | 40.1  | 53.5  |
| 137.5° | 5.3  | 1.3  | 1.3  | 1.3  | 1.3  | 2.7  | 5.3  | 12.0 | 21.4 | 32.1  | 44.1  |
| 140°   | 4.0  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 4.0  | 9.4  | 17.4 | 26.7  | 37.4  |
| 142.5° | 4.0  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 4.0  | 6.7  | 13.4 | 21.4  | 29.4  |
| 145°   | 2.7  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 2.7  | 5.3  | 10.7 | 16.0  | 24.1  |
| 147.5° | 2.7  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 2.7  | 4.0  | 8.0  | 13.4  | 18.7  |
| 150°   | 2.7  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 2.7  | 4.0  | 5.3  | 9.4   | 14.7  |
| 152.5° | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 2.7  | 2.7  | 4.0  | 6.7   | 9.4   |
| 155°   | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 2.7  | 4.0  | 5.3   | 6.7   |
| 157.5° | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 2.7  | 2.7  | 4.0   | 5.3   |
| 160°   | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 2.7  | 2.7   | 4.0   |
| 162.5° | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 2.7   | 2.7   |
| 165°   | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3   | 1.3   |
| 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: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 |
| 2.5°   | 1271.3 | 1262.0 | 1264.6 | 1263.3 | 1266.0 | 1270.0 | 1270.0 | 1268.7 | 1268.7 | 1266.0 | 1263.3 |
| 5°     | 1268.7 | 1259.3 | 1263.3 | 1262.0 | 1264.6 | 1268.7 | 1268.7 | 1267.3 | 1267.3 | 1263.3 | 1262.0 |
| 7.5°   | 1260.6 | 1254.0 | 1256.6 | 1256.6 | 1259.3 | 1263.3 | 1263.3 | 1262.0 | 1262.0 | 1258.0 | 1256.6 |
| 10°    | 1252.6 | 1244.6 | 1248.6 | 1248.6 | 1251.3 | 1256.6 | 1256.6 | 1255.3 | 1255.3 | 1251.3 | 1249.9 |
| 12.5°  | 1239.2 | 1231.2 | 1237.9 | 1239.2 | 1241.9 | 1247.3 | 1245.9 | 1245.9 | 1245.9 | 1241.9 | 1240.6 |
| 15°    | 1223.2 | 1217.9 | 1224.5 | 1225.9 | 1229.9 | 1236.6 | 1236.6 | 1236.6 | 1236.6 | 1232.6 | 1231.2 |
| 17.5°  | 1205.8 | 1201.8 | 1208.5 | 1211.2 | 1216.5 | 1223.2 | 1223.2 | 1224.5 | 1225.9 | 1223.2 | 1221.9 |
| 20°    | 1185.8 | 1183.1 | 1189.8 | 1195.1 | 1203.2 | 1209.8 | 1212.5 | 1213.8 | 1216.5 | 1213.8 | 1212.5 |
| 22.5°  | 1163.0 | 1163.0 | 1172.4 | 1177.8 | 1187.1 | 1193.8 | 1197.8 | 1201.8 | 1204.5 | 1201.8 | 1200.5 |
| 25°    | 1137.6 | 1141.7 | 1151.0 | 1160.4 | 1171.1 | 1177.8 | 1181.8 | 1187.1 | 1189.8 | 1188.4 | 1187.1 |
| 27.5°  | 1113.6 | 1118.9 | 1131.0 | 1140.3 | 1149.7 | 1160.4 | 1164.4 | 1171.1 | 1173.7 | 1173.7 | 1172.4 |
| 30°    | 1085.5 | 1093.5 | 1106.9 | 1117.6 | 1129.6 | 1140.3 | 1145.7 | 1152.4 | 1156.4 | 1153.7 | 1155.0 |
| 32.5°  | 1058.8 | 1072.1 | 1082.8 | 1094.9 | 1108.2 | 1118.9 | 1125.6 | 1133.6 | 1137.6 | 1136.3 | 1137.6 |
| 35°    | 1029.4 | 1042.7 | 1057.4 | 1069.5 | 1085.5 | 1096.2 | 1105.6 | 1112.2 | 1117.6 | 1116.3 | 1116.3 |
| 37.5°  | 997.3  | 1014.7 | 1029.4 | 1045.4 | 1060.1 | 1072.1 | 1081.5 | 1089.5 | 1094.9 | 1094.9 | 1094.9 |
| 40°    | 966.5  | 985.2  | 1000.0 | 1018.7 | 1037.4 | 1048.1 | 1058.8 | 1066.8 | 1072.1 | 1073.5 | 1074.8 |
| 42.5°  | 933.1  | 953.2  | 970.5  | 990.6  | 1009.3 | 1022.7 | 1034.7 | 1044.1 | 1049.4 | 1052.1 | 1050.8 |
| 45°    | 902.4  | 921.1  | 941.1  | 963.9  | 981.2  | 994.6  | 1009.3 | 1020.0 | 1025.4 | 1026.7 | 1028.0 |
| 47.5°  | 867.6  | 889.0  | 911.7  | 934.4  | 951.8  | 969.2  | 982.6  | 993.3  | 998.6  | 1002.6 | 1002.6 |
| 50°    | 834.2  | 856.9  | 882.3  | 906.4  | 925.1  | 942.5  | 955.8  | 967.9  | 974.6  | 977.2  | 978.6  |
| 52.5°  | 803.4  | 824.8  | 851.6  | 875.6  | 894.3  | 911.7  | 929.1  | 942.5  | 949.2  | 951.8  | 951.8  |
| 55°    | 766.0  | 792.7  | 822.2  | 844.9  | 864.9  | 885.0  | 902.4  | 915.7  | 922.4  | 926.4  | 929.1  |
| 57.5°  | 731.2  | 759.3  | 790.1  | 814.1  | 838.2  | 856.9  | 873.0  | 890.3  | 895.7  | 901.0  | 902.4  |
| 60°    | 697.8  | 725.9  | 755.3  | 782.0  | 806.1  | 826.2  | 844.9  | 859.6  | 868.9  | 871.6  | 874.3  |
| 62.5°  | 663.1  | 692.5  | 723.2  | 750.0  | 775.4  | 799.4  | 816.8  | 830.2  | 840.9  | 844.9  | 847.6  |
| 65°    | 629.6  | 660.4  | 691.1  | 719.2  | 746.0  | 770.0  | 787.4  | 800.8  | 811.5  | 818.1  | 819.5  |
| 67.5°  | 593.6  | 627.0  | 659.1  | 688.5  | 715.2  | 740.6  | 758.0  | 771.4  | 782.0  | 790.1  | 791.4  |
| 70°    | 560.1  | 594.9  | 627.0  | 659.1  | 685.8  | 711.2  | 729.9  | 743.3  | 755.3  | 760.7  | 763.3  |
| 72.5°  | 528.0  | 564.1  | 597.6  | 629.6  | 656.4  | 681.8  | 701.8  | 715.2  | 727.2  | 733.9  | 735.3  |
| 75°    | 497.3  | 533.4  | 569.5  | 600.2  | 628.3  | 653.7  | 673.8  | 688.5  | 699.2  | 705.8  | 708.5  |
| 77.5°  | 466.6  | 504.0  | 540.1  | 570.8  | 600.2  | 625.6  | 643.0  | 660.4  | 671.1  | 679.1  | 679.1  |
| 80°    | 435.8  | 474.6  | 512.0  | 542.8  | 572.2  | 594.9  | 614.9  | 632.3  | 643.0  | 651.0  | 651.0  |
| 82.5°  | 409.1  | 446.5  | 482.6  | 513.3  | 542.8  | 568.2  | 588.2  | 604.2  | 616.3  | 621.6  | 623.0  |
| 85°    | 378.3  | 419.8  | 453.2  | 486.6  | 514.7  | 538.7  | 558.8  | 576.2  | 586.9  | 592.2  | 594.9  |
| 87.5°  | 352.9  | 393.0  | 429.1  | 458.5  | 486.6  | 510.7  | 533.4  | 548.1  | 558.8  | 565.5  | 568.2  |
| 90°    | 328.9  | 367.6  | 403.7  | 433.1  | 462.5  | 485.3  | 506.7  | 521.4  | 533.4  | 538.7  | 541.4  |
| 92.5°  | 307.5  | 346.2  | 381.0  | 410.4  | 438.5  | 463.9  | 483.9  | 498.6  | 509.3  | 514.7  | 518.7  |
| 95°    | 287.4  | 324.9  | 358.3  | 390.4  | 417.1  | 439.8  | 461.2  | 475.9  | 487.9  | 492.0  | 496.0  |
| 97.5°  | 267.4  | 303.5  | 336.9  | 367.6  | 395.7  | 417.1  | 437.1  | 451.9  | 461.2  | 467.9  | 471.9  |
| 100°   | 250.0  | 284.7  | 316.8  | 346.2  | 373.0  | 393.0  | 414.4  | 427.8  | 437.1  | 442.5  | 447.8  |
| 102.5° | 231.3  | 266.0  | 296.8  | 324.9  | 352.9  | 371.6  | 391.7  | 405.1  | 413.1  | 422.4  | 422.4  |
| 105°   | 215.2  | 247.3  | 278.1  | 304.8  | 328.9  | 351.6  | 369.0  | 382.3  | 391.7  | 398.4  | 398.4  |
| 107.5° | 197.9  | 229.9  | 259.3  | 287.4  | 310.1  | 331.5  | 347.6  | 359.6  | 370.3  | 374.3  | 378.3  |
| 110°   | 184.5  | 212.6  | 242.0  | 268.7  | 290.1  | 310.1  | 326.2  | 339.6  | 348.9  | 352.9  | 355.6  |

TEST NUMBER: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 168.4 | 197.9 | 224.6 | 250.0 | 271.4 | 290.1 | 306.1 | 316.8 | 326.2 | 331.5 | 332.9 |
| 115°   | 155.1 | 183.1 | 207.2 | 231.3 | 254.0 | 270.0 | 284.7 | 295.4 | 304.8 | 308.8 | 311.5 |
| 117.5° | 143.0 | 168.4 | 192.5 | 212.6 | 233.9 | 251.3 | 266.0 | 275.4 | 283.4 | 288.8 | 291.4 |
| 120°   | 131.0 | 155.1 | 176.5 | 196.5 | 216.6 | 232.6 | 246.0 | 255.3 | 264.7 | 268.7 | 268.7 |
| 122.5° | 119.0 | 141.7 | 161.8 | 180.5 | 199.2 | 213.9 | 228.6 | 236.6 | 244.6 | 248.7 | 248.7 |
| 125°   | 108.3 | 129.7 | 148.4 | 165.8 | 183.1 | 196.5 | 208.5 | 217.9 | 225.9 | 228.6 | 228.6 |
| 127.5° | 97.6  | 117.6 | 135.0 | 151.1 | 165.8 | 179.1 | 191.2 | 200.5 | 207.2 | 209.9 | 209.9 |
| 130°   | 88.2  | 105.6 | 121.7 | 137.7 | 152.4 | 163.1 | 175.1 | 183.1 | 187.2 | 191.2 | 192.5 |
| 132.5° | 78.9  | 94.9  | 109.6 | 123.0 | 137.7 | 148.4 | 157.7 | 165.8 | 169.8 | 173.8 | 175.1 |
| 135°   | 69.5  | 84.2  | 97.6  | 111.0 | 123.0 | 133.7 | 141.7 | 148.4 | 153.7 | 156.4 | 157.7 |
| 137.5° | 58.8  | 74.9  | 86.9  | 97.6  | 111.0 | 119.0 | 128.3 | 132.3 | 137.7 | 140.4 | 140.4 |
| 140°   | 49.5  | 61.5  | 74.9  | 85.6  | 96.3  | 104.3 | 112.3 | 119.0 | 123.0 | 124.3 | 124.3 |
| 142.5° | 40.1  | 50.8  | 61.5  | 74.9  | 84.2  | 90.9  | 98.9  | 104.3 | 106.9 | 108.3 | 109.6 |
| 145°   | 32.1  | 40.1  | 49.5  | 61.5  | 72.2  | 80.2  | 84.2  | 89.6  | 92.2  | 93.6  | 94.9  |
| 147.5° | 24.1  | 32.1  | 40.1  | 48.1  | 58.8  | 66.8  | 70.9  | 76.2  | 78.9  | 80.2  | 80.2  |
| 150°   | 18.7  | 24.1  | 29.4  | 37.4  | 45.5  | 54.8  | 60.2  | 64.2  | 65.5  | 66.8  | 66.8  |
| 152.5° | 13.4  | 18.7  | 22.7  | 28.1  | 33.4  | 41.4  | 49.5  | 52.1  | 53.5  | 54.8  | 54.8  |
| 155°   | 9.4   | 13.4  | 16.0  | 20.1  | 24.1  | 30.7  | 37.4  | 41.4  | 42.8  | 44.1  | 44.1  |
| 157.5° | 6.7   | 9.4   | 10.7  | 14.7  | 17.4  | 20.1  | 25.4  | 32.1  | 33.4  | 33.4  | 33.4  |
| 160°   | 4.0   | 5.3   | 6.7   | 9.4   | 10.7  | 13.4  | 16.0  | 20.1  | 24.1  | 24.1  | 24.1  |
| 162.5° | 2.7   | 4.0   | 4.0   | 5.3   | 5.3   | 8.0   | 9.4   | 10.7  | 14.7  | 16.0  | 16.0  |
| 165°   | 1.3   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 4.0   | 4.0   | 6.7   | 8.0   | 8.0   |
| 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: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 |
| 2.5°   | 1264.6 | 1267.3 | 1266.0 | 1266.0 | 1266.0 | 1268.7 | 1266.0 | 1254.0 | 1256.6 | 1259.3 | 1262.0 |
| 5°     | 1263.3 | 1264.6 | 1264.6 | 1263.3 | 1263.3 | 1266.0 | 1263.3 | 1251.3 | 1254.0 | 1256.6 | 1258.0 |
| 7.5°   | 1258.0 | 1259.3 | 1259.3 | 1259.3 | 1258.0 | 1260.6 | 1256.6 | 1245.9 | 1245.9 | 1248.6 | 1249.9 |
| 10°    | 1251.3 | 1254.0 | 1252.6 | 1251.3 | 1251.3 | 1251.3 | 1248.6 | 1236.6 | 1236.6 | 1237.9 | 1239.2 |
| 12.5°  | 1243.3 | 1243.3 | 1243.3 | 1241.9 | 1240.6 | 1240.6 | 1237.9 | 1225.9 | 1224.5 | 1227.2 | 1225.9 |
| 15°    | 1232.6 | 1235.2 | 1232.6 | 1231.2 | 1228.6 | 1228.6 | 1224.5 | 1212.5 | 1209.8 | 1211.2 | 1209.8 |
| 17.5°  | 1223.2 | 1224.5 | 1221.9 | 1219.2 | 1216.5 | 1215.2 | 1211.2 | 1197.8 | 1193.8 | 1195.1 | 1192.5 |
| 20°    | 1213.8 | 1213.8 | 1211.2 | 1208.5 | 1204.5 | 1200.5 | 1195.1 | 1181.8 | 1175.1 | 1175.1 | 1169.7 |
| 22.5°  | 1201.8 | 1201.8 | 1199.1 | 1195.1 | 1191.1 | 1185.8 | 1180.4 | 1167.1 | 1156.4 | 1153.7 | 1149.7 |
| 25°    | 1188.4 | 1187.1 | 1185.8 | 1181.8 | 1173.7 | 1168.4 | 1163.0 | 1148.3 | 1136.3 | 1131.0 | 1124.3 |
| 27.5°  | 1172.4 | 1172.4 | 1168.4 | 1164.4 | 1156.4 | 1149.7 | 1143.0 | 1129.6 | 1113.6 | 1106.9 | 1097.5 |
| 30°    | 1155.0 | 1155.0 | 1151.0 | 1145.7 | 1137.6 | 1129.6 | 1121.6 | 1105.6 | 1089.5 | 1080.2 | 1069.5 |
| 32.5°  | 1137.6 | 1136.3 | 1132.3 | 1127.0 | 1118.9 | 1106.9 | 1100.2 | 1084.2 | 1065.5 | 1054.8 | 1040.1 |
| 35°    | 1116.3 | 1114.9 | 1110.9 | 1104.2 | 1093.5 | 1084.2 | 1073.5 | 1058.8 | 1037.4 | 1024.0 | 1008.0 |
| 37.5°  | 1094.9 | 1093.5 | 1090.9 | 1081.5 | 1070.8 | 1060.1 | 1046.7 | 1032.0 | 1012.0 | 994.6  | 978.6  |
| 40°    | 1073.5 | 1072.1 | 1066.8 | 1060.1 | 1046.7 | 1033.4 | 1020.0 | 1005.3 | 983.9  | 963.9  | 946.5  |
| 42.5°  | 1050.8 | 1049.4 | 1042.7 | 1034.7 | 1020.0 | 1006.6 | 990.6  | 974.6  | 953.2  | 929.1  | 911.7  |
| 45°    | 1028.0 | 1025.4 | 1018.7 | 1009.3 | 993.3  | 978.6  | 962.5  | 943.8  | 922.4  | 899.7  | 877.0  |
| 47.5°  | 1004.0 | 1000.0 | 993.3  | 979.9  | 966.5  | 950.5  | 931.8  | 911.7  | 890.3  | 864.9  | 840.9  |
| 50°    | 977.2  | 974.6  | 966.5  | 954.5  | 938.5  | 922.4  | 901.0  | 881.0  | 855.6  | 831.5  | 802.1  |
| 52.5°  | 951.8  | 946.5  | 939.8  | 926.4  | 910.4  | 893.0  | 870.3  | 846.2  | 820.8  | 798.1  | 767.3  |
| 55°    | 925.1  | 922.4  | 913.1  | 902.4  | 882.3  | 862.3  | 840.9  | 815.5  | 787.4  | 760.7  | 731.2  |
| 57.5°  | 899.7  | 894.3  | 886.3  | 871.6  | 854.2  | 834.2  | 811.5  | 784.7  | 754.0  | 725.9  | 693.8  |
| 60°    | 874.3  | 866.3  | 856.9  | 843.5  | 824.8  | 803.4  | 779.4  | 751.3  | 720.6  | 689.8  | 656.4  |
| 62.5°  | 846.2  | 839.5  | 828.8  | 815.5  | 796.8  | 774.0  | 748.6  | 719.2  | 689.8  | 657.7  | 621.6  |
| 65°    | 818.1  | 811.5  | 800.8  | 787.4  | 768.7  | 743.3  | 716.5  | 687.1  | 653.7  | 623.0  | 584.2  |
| 67.5°  | 790.1  | 783.4  | 771.4  | 756.6  | 737.9  | 713.9  | 685.8  | 655.0  | 621.6  | 588.2  | 548.1  |
| 70°    | 762.0  | 754.0  | 743.3  | 727.2  | 708.5  | 683.1  | 655.0  | 623.0  | 589.5  | 553.4  | 513.3  |
| 72.5°  | 733.9  | 727.2  | 713.9  | 699.2  | 679.1  | 653.7  | 625.6  | 593.6  | 558.8  | 521.4  | 481.3  |
| 75°    | 705.8  | 697.8  | 688.5  | 671.1  | 649.7  | 625.6  | 596.2  | 564.1  | 526.7  | 490.6  | 449.2  |
| 77.5°  | 677.8  | 671.1  | 659.1  | 641.7  | 621.6  | 596.2  | 566.8  | 534.7  | 497.3  | 459.9  | 415.8  |
| 80°    | 649.7  | 641.7  | 632.3  | 616.3  | 593.6  | 568.2  | 537.4  | 505.3  | 467.9  | 429.1  | 385.0  |
| 82.5°  | 621.6  | 613.6  | 602.9  | 586.9  | 565.5  | 540.1  | 510.7  | 475.9  | 438.5  | 398.4  | 356.9  |
| 85°    | 593.6  | 586.9  | 574.8  | 558.8  | 536.1  | 510.7  | 481.3  | 450.5  | 410.4  | 370.3  | 328.9  |
| 87.5°  | 565.5  | 558.8  | 546.8  | 530.7  | 509.3  | 483.9  | 454.5  | 422.4  | 383.7  | 346.2  | 300.8  |
| 90°    | 538.7  | 533.4  | 521.4  | 505.3  | 483.9  | 458.5  | 431.8  | 397.0  | 359.6  | 322.2  | 279.4  |
| 92.5°  | 514.7  | 509.3  | 498.6  | 482.6  | 463.9  | 435.8  | 409.1  | 375.7  | 338.2  | 299.5  | 258.0  |
| 95°    | 493.3  | 486.6  | 475.9  | 461.2  | 438.5  | 414.4  | 387.7  | 354.3  | 318.2  | 279.4  | 239.3  |
| 97.5°  | 469.2  | 462.5  | 451.9  | 435.8  | 417.1  | 391.7  | 365.0  | 332.9  | 296.8  | 260.7  | 220.6  |
| 100°   | 445.2  | 438.5  | 426.5  | 413.1  | 394.4  | 369.0  | 343.6  | 311.5  | 278.1  | 243.3  | 204.5  |
| 102.5° | 421.1  | 414.4  | 403.7  | 390.4  | 371.6  | 348.9  | 323.5  | 292.8  | 259.3  | 224.6  | 188.5  |
| 105°   | 398.4  | 391.7  | 381.0  | 367.6  | 350.3  | 327.5  | 300.8  | 274.1  | 242.0  | 208.5  | 173.8  |
| 107.5° | 375.7  | 369.0  | 359.6  | 346.2  | 328.9  | 307.5  | 282.1  | 254.0  | 224.6  | 192.5  | 159.1  |
| 110°   | 352.9  | 347.6  | 336.9  | 324.9  | 307.5  | 286.1  | 263.4  | 236.6  | 207.2  | 177.8  | 145.7  |



TEST NUMBER: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 331.5 | 326.2 | 315.5 | 302.1 | 287.4 | 267.4 | 244.6 | 219.2 | 191.2 | 163.1 | 132.3 |
| 115°   | 310.1 | 303.5 | 294.1 | 282.1 | 267.4 | 248.7 | 227.3 | 204.5 | 176.5 | 149.7 | 121.7 |
| 117.5° | 288.8 | 283.4 | 274.1 | 262.0 | 248.7 | 229.9 | 209.9 | 188.5 | 161.8 | 136.4 | 111.0 |
| 120°   | 267.4 | 263.4 | 254.0 | 243.3 | 229.9 | 212.6 | 193.8 | 172.5 | 148.4 | 124.3 | 100.3 |
| 122.5° | 247.3 | 243.3 | 233.9 | 224.6 | 211.2 | 195.2 | 177.8 | 157.7 | 136.4 | 113.6 | 92.2  |
| 125°   | 228.6 | 223.3 | 215.2 | 205.9 | 193.8 | 179.1 | 161.8 | 143.0 | 123.0 | 102.9 | 82.9  |
| 127.5° | 208.5 | 204.5 | 199.2 | 188.5 | 176.5 | 163.1 | 147.1 | 131.0 | 112.3 | 93.6  | 74.9  |
| 130°   | 192.5 | 187.2 | 180.5 | 172.5 | 161.8 | 148.4 | 133.7 | 117.6 | 101.6 | 84.2  | 65.5  |
| 132.5° | 173.8 | 168.4 | 163.1 | 155.1 | 145.7 | 133.7 | 120.3 | 105.6 | 90.9  | 74.9  | 58.8  |
| 135°   | 156.4 | 152.4 | 147.1 | 139.0 | 129.7 | 120.3 | 106.9 | 93.6  | 80.2  | 65.5  | 52.1  |
| 137.5° | 140.4 | 136.4 | 131.0 | 125.7 | 116.3 | 106.9 | 94.9  | 82.9  | 70.9  | 57.5  | 45.5  |
| 140°   | 124.3 | 121.7 | 116.3 | 111.0 | 102.9 | 93.6  | 82.9  | 72.2  | 61.5  | 49.5  | 38.8  |
| 142.5° | 108.3 | 105.6 | 101.6 | 96.3  | 89.6  | 81.5  | 72.2  | 62.8  | 52.1  | 42.8  | 33.4  |
| 145°   | 93.6  | 92.2  | 88.2  | 82.9  | 77.5  | 69.5  | 61.5  | 53.5  | 44.1  | 36.1  | 26.7  |
| 147.5° | 78.9  | 77.5  | 74.9  | 70.9  | 65.5  | 58.8  | 52.1  | 44.1  | 37.4  | 29.4  | 21.4  |
| 150°   | 65.5  | 64.2  | 62.8  | 57.5  | 54.8  | 48.1  | 42.8  | 36.1  | 30.7  | 22.7  | 17.4  |
| 152.5° | 53.5  | 53.5  | 50.8  | 46.8  | 44.1  | 38.8  | 34.8  | 29.4  | 24.1  | 18.7  | 13.4  |
| 155°   | 42.8  | 41.4  | 40.1  | 37.4  | 34.8  | 30.7  | 26.7  | 22.7  | 18.7  | 13.4  | 9.4   |
| 157.5° | 33.4  | 32.1  | 30.7  | 28.1  | 25.4  | 24.1  | 20.1  | 16.0  | 12.0  | 9.4   | 6.7   |
| 160°   | 24.1  | 22.7  | 21.4  | 20.1  | 18.7  | 16.0  | 13.4  | 10.7  | 8.0   | 5.3   | 4.0   |
| 162.5° | 16.0  | 14.7  | 14.7  | 13.4  | 12.0  | 9.4   | 8.0   | 6.7   | 5.3   | 4.0   | 2.7   |
| 165°   | 8.0   | 8.0   | 6.7   | 6.7   | 5.3   | 4.0   | 4.0   | 4.0   | 2.7   | 2.7   | 1.3   |
| 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: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 |
| 2.5°   | 1260.6 | 1260.6 | 1266.0 | 1264.6 | 1260.6 | 1268.7 | 1278.0 |
| 5°     | 1256.6 | 1256.6 | 1260.6 | 1260.6 | 1256.6 | 1264.6 | 1272.7 |
| 7.5°   | 1249.9 | 1248.6 | 1252.6 | 1252.6 | 1247.3 | 1254.0 | 1263.3 |
| 10°    | 1237.9 | 1236.6 | 1240.6 | 1240.6 | 1235.2 | 1241.9 | 1249.9 |
| 12.5°  | 1224.5 | 1221.9 | 1225.9 | 1224.5 | 1219.2 | 1225.9 | 1233.9 |
| 15°    | 1207.2 | 1205.8 | 1208.5 | 1205.8 | 1200.5 | 1207.2 | 1215.2 |
| 17.5°  | 1189.8 | 1185.8 | 1187.1 | 1187.1 | 1177.8 | 1184.4 | 1191.1 |
| 20°    | 1167.1 | 1161.7 | 1163.0 | 1161.7 | 1155.0 | 1159.0 | 1167.1 |
| 22.5°  | 1144.3 | 1136.3 | 1136.3 | 1135.0 | 1127.0 | 1132.3 | 1139.0 |
| 25°    | 1116.3 | 1106.9 | 1106.9 | 1105.6 | 1096.2 | 1100.2 | 1106.9 |
| 27.5°  | 1088.2 | 1078.8 | 1074.8 | 1073.5 | 1064.1 | 1064.1 | 1073.5 |
| 30°    | 1058.8 | 1045.4 | 1042.7 | 1038.7 | 1029.4 | 1029.4 | 1037.4 |
| 32.5°  | 1030.7 | 1012.0 | 1006.6 | 1001.3 | 991.9  | 990.6  | 1000.0 |
| 35°    | 993.3  | 978.6  | 969.2  | 963.9  | 953.2  | 950.5  | 958.5  |
| 37.5°  | 962.5  | 943.8  | 930.4  | 923.8  | 913.1  | 909.0  | 919.7  |
| 40°    | 929.1  | 909.0  | 891.7  | 887.7  | 871.6  | 866.3  | 875.6  |
| 42.5°  | 891.7  | 870.3  | 852.9  | 844.9  | 832.8  | 827.5  | 828.8  |
| 45°    | 854.2  | 831.5  | 812.8  | 802.1  | 790.1  | 780.7  | 786.1  |
| 47.5°  | 815.5  | 795.4  | 772.7  | 756.6  | 741.9  | 735.3  | 737.9  |
| 50°    | 776.7  | 752.6  | 731.2  | 713.9  | 696.5  | 688.5  | 693.8  |
| 52.5°  | 737.9  | 712.5  | 688.5  | 669.8  | 649.7  | 641.7  | 643.0  |
| 55°    | 700.5  | 673.8  | 645.7  | 625.6  | 606.9  | 594.9  | 592.2  |
| 57.5°  | 663.1  | 633.7  | 604.2  | 581.5  | 557.5  | 546.8  | 542.8  |
| 60°    | 623.0  | 592.2  | 561.5  | 534.7  | 509.3  | 497.3  | 492.0  |
| 62.5°  | 585.5  | 552.1  | 517.4  | 489.3  | 463.9  | 447.8  | 443.8  |
| 65°    | 549.4  | 510.7  | 475.9  | 443.8  | 415.8  | 398.4  | 393.0  |
| 67.5°  | 510.7  | 470.6  | 433.1  | 398.4  | 371.6  | 348.9  | 346.2  |
| 70°    | 474.6  | 431.8  | 390.4  | 354.3  | 324.9  | 302.1  | 291.4  |
| 72.5°  | 438.5  | 394.4  | 351.6  | 312.8  | 275.4  | 254.0  | 246.0  |
| 75°    | 403.7  | 358.3  | 312.8  | 272.7  | 231.3  | 205.9  | 197.9  |
| 77.5°  | 371.6  | 324.9  | 276.7  | 232.6  | 193.8  | 161.8  | 151.1  |
| 80°    | 340.9  | 292.8  | 242.0  | 196.5  | 155.1  | 120.3  | 108.3  |
| 82.5°  | 308.8  | 263.4  | 211.2  | 163.1  | 120.3  | 84.2   | 69.5   |
| 85°    | 280.7  | 235.3  | 183.1  | 135.0  | 92.2   | 53.5   | 37.4   |
| 87.5°  | 258.0  | 208.5  | 161.8  | 113.6  | 69.5   | 30.7   | 10.7   |
| 90°    | 235.3  | 187.2  | 140.4  | 93.6   | 52.1   | 17.4   | 1.3    |
| 92.5°  | 215.2  | 169.8  | 123.0  | 80.2   | 40.1   | 12.0   | 1.3    |
| 95°    | 196.5  | 152.4  | 108.3  | 66.8   | 32.1   | 8.0    | 1.3    |
| 97.5°  | 179.1  | 137.7  | 96.3   | 57.5   | 26.7   | 6.7    | 1.3    |
| 100°   | 164.4  | 124.3  | 85.6   | 50.8   | 22.7   | 5.3    | 1.3    |
| 102.5° | 149.7  | 112.3  | 76.2   | 44.1   | 20.1   | 4.0    | 1.3    |
| 105°   | 137.7  | 101.6  | 68.2   | 40.1   | 17.4   | 4.0    | 1.3    |
| 107.5° | 125.7  | 92.2   | 61.5   | 34.8   | 14.7   | 2.7    | 1.3    |
| 110°   | 113.6  | 84.2   | 54.8   | 30.7   | 13.4   | 2.7    | 1.3    |

TEST NUMBER: P1213166

CATALOG NUMBER: 4SNLED-LD5-70SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|-------|------|------|------|------|------|------|
| 112.5° | 104.3 | 76.2 | 49.5 | 28.1 | 10.7 | 2.7  | 1.3  |
| 115°   | 94.9  | 68.2 | 44.1 | 24.1 | 9.4  | 1.3  | 1.3  |
| 117.5° | 85.6  | 61.5 | 38.8 | 21.4 | 8.0  | 1.3  | 1.3  |
| 120°   | 77.5  | 54.8 | 34.8 | 18.7 | 6.7  | 1.3  | 1.3  |
| 122.5° | 69.5  | 49.5 | 30.7 | 16.0 | 5.3  | 1.3  | 1.3  |
| 125°   | 62.8  | 44.1 | 26.7 | 13.4 | 4.0  | 1.3  | 1.3  |
| 127.5° | 56.1  | 38.8 | 24.1 | 12.0 | 4.0  | 1.3  | 1.3  |
| 130°   | 49.5  | 34.8 | 20.1 | 9.4  | 2.7  | 1.3  | 1.3  |
| 132.5° | 44.1  | 29.4 | 17.4 | 8.0  | 2.7  | 1.3  | 1.3  |
| 135°   | 38.8  | 25.4 | 14.7 | 5.3  | 2.7  | 1.3  | 1.3  |
| 137.5° | 33.4  | 21.4 | 12.0 | 4.0  | 1.3  | 1.3  | 1.3  |
| 140°   | 28.1  | 18.7 | 9.4  | 4.0  | 1.3  | 1.3  | 1.3  |
| 142.5° | 24.1  | 14.7 | 6.7  | 2.7  | 1.3  | 1.3  | 1.3  |
| 145°   | 18.7  | 12.0 | 5.3  | 2.7  | 1.3  | 1.3  | 1.3  |
| 147.5° | 14.7  | 9.4  | 4.0  | 2.7  | 1.3  | 1.3  | 1.3  |
| 150°   | 10.7  | 6.7  | 4.0  | 1.3  | 1.3  | 1.3  | 1.3  |
| 152.5° | 8.0   | 5.3  | 2.7  | 1.3  | 1.3  | 1.3  | 1.3  |
| 155°   | 5.3   | 4.0  | 2.7  | 1.3  | 1.3  | 1.3  | 1.3  |
| 157.5° | 4.0   | 2.7  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 160°   | 2.7   | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 162.5° | 1.3   | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 165°   | 1.3   | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 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)