

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: P1213350

Luminaire Tested: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213350  
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: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

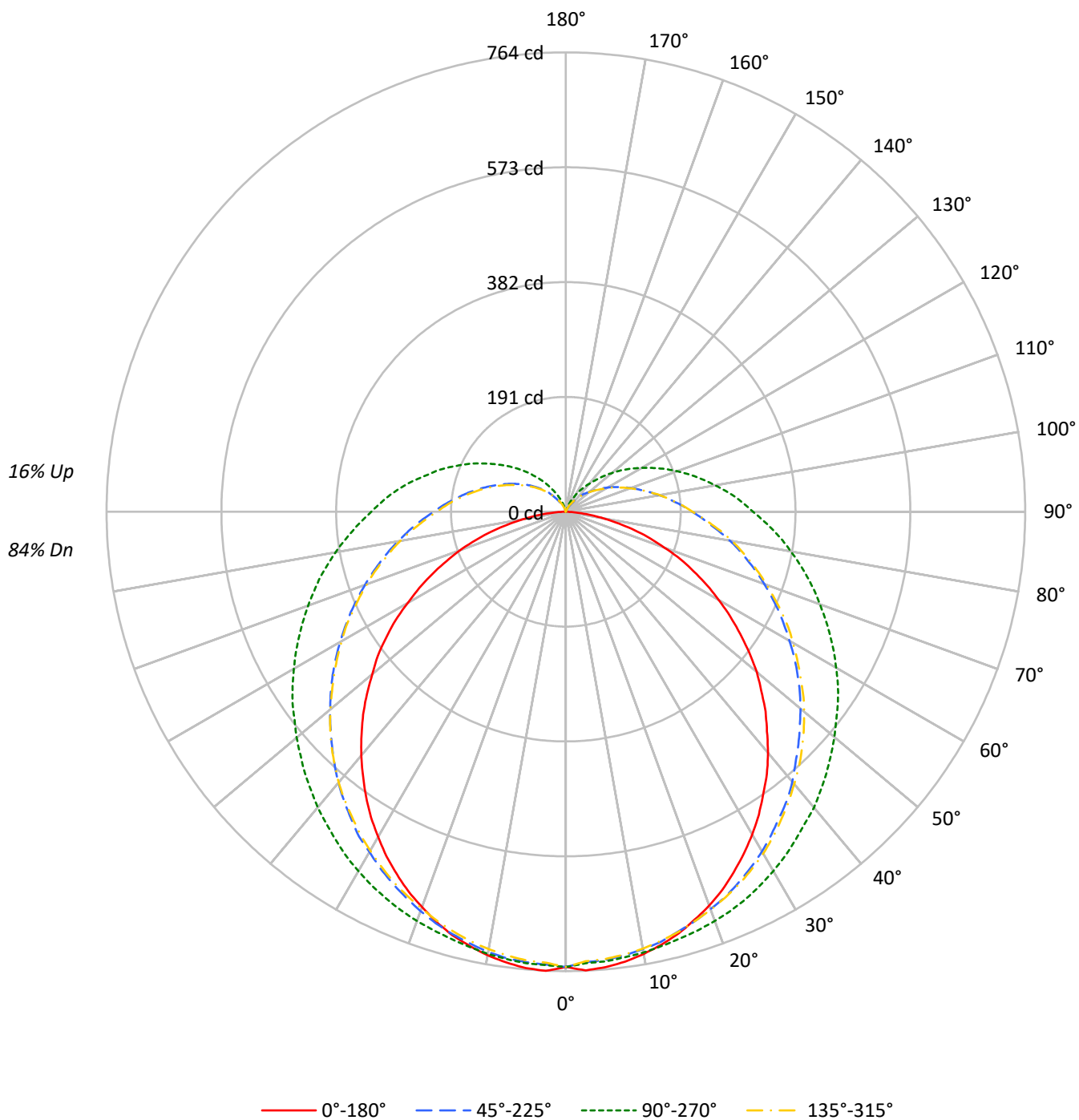
Lumens per Lamp: N/A  
Luminaire Lumens: 3289.0 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 36  
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: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

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

|     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |    | 20 |    |    |    | 20 |    |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |    | 30 |    |    |    | 10 |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 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°  | 12235 | 12235 | 12235 | 12235 |
| 5°  | 12266 | 11790 | 12292 | 11841 |
| 10° | 12121 | 11457 | 12158 | 11494 |
| 15° | 11946 | 11170 | 11998 | 11182 |
| 20° | 11723 | 10960 | 11763 | 10960 |
| 25° | 11457 | 10774 | 11526 | 10762 |
| 30° | 11162 | 10583 | 11249 | 10583 |
| 35° | 10824 | 10405 | 10945 | 10418 |
| 40° | 10486 | 10301 | 10613 | 10301 |
| 45° | 10102 | 10192 | 10255 | 10205 |
| 50° | 9700  | 10126 | 9828  | 10154 |
| 55° | 9152  | 10137 | 9439  | 10181 |
| 60° | 8572  | 10168 | 8852  | 10231 |
| 65° | 7918  | 10269 | 8269  | 10371 |
| 70° | 7021  | 10459 | 7570  | 10608 |
| 75° | 5985  | 10799 | 6552  | 11007 |
| 80° | 4446  | 11307 | 5051  | 11569 |
| 85° | 2423  | 12121 | 3018  | 12457 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 13924 cd/sqm

TEST NUMBER: P1213350

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.7   | 2.2       |
| 10°-20°   | 206.1  | 6.3       |
| 20°-30°   | 316.0  | 9.6       |
| 30°-40°   | 389.8  | 11.9      |
| 40°-50°   | 423.0  | 12.9      |
| 50°-60°   | 416.9  | 12.7      |
| 60°-70°   | 376.9  | 11.5      |
| 70°-80°   | 314.0  | 9.5       |
| 80°-90°   | 243.2  | 7.4       |
| 90°-100°  | 184.4  | 5.6       |
| 100°-110° | 136.5  | 4.2       |
| 110°-120° | 94.9   | 2.9       |
| 120°-130° | 60.6   | 1.8       |
| 130°-140° | 34.0   | 1.0       |
| 140°-150° | 15.5   | 0.5       |
| 150°-160° | 4.8    | 0.1       |
| 160°-170° | 0.6    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 593.8  | 18.1      |
| 0°-40°    | 983.7  | 29.9      |
| 0°-60°    | 1823.5 | 55.4      |
| 0°-90°    | 2757.6 | 83.8      |
| 90°-120°  | 415.9  | 12.6      |
| 90°-150°  | 526.0  | 16.0      |
| 90°-180°  | 531.0  | 16.1      |
| 0°-180°   | 3289.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 757 | 757 | 757  | 757  | 757  |      |
| 5°   | 760 | 751 | 762  | 754  | 760  | 72   |
| 15°  | 726 | 735 | 729  | 736  | 726  | 205  |
| 25°  | 661 | 710 | 665  | 709  | 661  | 305  |
| 35°  | 573 | 666 | 579  | 667  | 573  | 359  |
| 45°  | 470 | 613 | 477  | 614  | 470  | 362  |
| 55°  | 354 | 553 | 365  | 555  | 354  | 317  |
| 65°  | 235 | 485 | 245  | 490  | 235  | 233  |
| 75°  | 118 | 415 | 129  | 423  | 118  | 125  |
| 85°  | 22  | 346 | 28   | 355  | 22   | 27   |
| 90°  | 1   | 311 | 2    | 323  | 1    | 1    |
| 95°  | 1   | 283 | 1    | 296  | 1    | 1    |
| 105° | 1   | 224 | 1    | 238  | 1    | 1    |
| 115° | 1   | 171 | 1    | 186  | 1    | 1    |
| 125° | 1   | 123 | 1    | 137  | 1    | 1    |
| 135° | 1   | 80  | 1    | 94   | 1    | 1    |
| 145° | 1   | 46  | 1    | 57   | 1    | 1    |
| 155° | 1   | 19  | 1    | 26   | 1    | 0    |
| 165° | 1   | 3   | 1    | 5    | 1    | 0    |
| 175° | 0   | 0   | 0    | 0    | 0    | 0    |
| 180° | 0   | 0   | 0    | 0    | 0    | 0    |

TEST NUMBER: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 |
| 2.5°   | 763.4 | 763.4 | 762.6 | 761.0 | 761.8 | 764.2 | 762.6 | 758.6 | 756.2 | 749.8 | 751.4 |
| 5°     | 760.2 | 760.2 | 759.4 | 757.8 | 758.6 | 761.8 | 760.2 | 757.0 | 753.8 | 748.2 | 750.6 |
| 7.5°   | 754.6 | 754.6 | 753.8 | 752.2 | 753.8 | 757.0 | 755.4 | 752.2 | 749.8 | 744.3 | 746.7 |
| 10°    | 746.7 | 747.4 | 746.7 | 744.3 | 747.4 | 750.6 | 749.8 | 745.9 | 743.5 | 738.7 | 741.1 |
| 12.5°  | 737.1 | 737.9 | 737.1 | 736.3 | 737.9 | 742.7 | 741.1 | 737.9 | 736.3 | 732.3 | 734.7 |
| 15°    | 725.9 | 726.7 | 725.1 | 725.1 | 726.7 | 731.5 | 731.5 | 728.3 | 726.7 | 722.7 | 727.5 |
| 17.5°  | 711.5 | 712.3 | 711.5 | 711.5 | 713.1 | 717.9 | 718.7 | 717.1 | 715.5 | 713.9 | 718.7 |
| 20°    | 697.1 | 696.3 | 696.3 | 695.5 | 698.7 | 705.9 | 705.1 | 705.1 | 703.5 | 703.5 | 709.1 |
| 22.5°  | 680.4 | 680.4 | 679.6 | 679.6 | 683.6 | 690.0 | 690.0 | 691.5 | 690.0 | 693.1 | 697.9 |
| 25°    | 661.2 | 662.0 | 661.2 | 662.8 | 666.0 | 673.2 | 674.0 | 676.4 | 677.2 | 680.4 | 686.0 |
| 27.5°  | 641.2 | 642.0 | 641.2 | 642.8 | 648.4 | 654.0 | 658.0 | 661.2 | 662.0 | 666.8 | 674.0 |
| 30°    | 619.7 | 619.7 | 620.5 | 622.1 | 628.5 | 637.2 | 640.4 | 644.4 | 644.4 | 652.4 | 659.6 |
| 32.5°  | 597.3 | 597.3 | 597.3 | 600.5 | 607.7 | 618.1 | 622.1 | 626.9 | 628.5 | 636.4 | 644.4 |
| 35°    | 572.6 | 573.4 | 573.4 | 575.8 | 585.3 | 595.7 | 601.3 | 606.9 | 610.1 | 619.7 | 627.7 |
| 37.5°  | 549.4 | 551.0 | 548.6 | 551.8 | 565.4 | 574.2 | 580.6 | 586.1 | 591.7 | 604.5 | 610.9 |
| 40°    | 523.1 | 524.7 | 523.9 | 530.2 | 541.4 | 552.6 | 559.8 | 565.4 | 573.4 | 586.1 | 593.3 |
| 42.5°  | 495.1 | 496.7 | 498.3 | 505.5 | 517.5 | 528.6 | 537.4 | 544.6 | 554.2 | 565.4 | 577.4 |
| 45°    | 469.6 | 469.6 | 471.9 | 480.7 | 493.5 | 505.5 | 515.9 | 523.9 | 535.0 | 547.0 | 559.0 |
| 47.5°  | 440.8 | 441.6 | 444.8 | 455.2 | 468.8 | 483.1 | 492.7 | 503.1 | 515.1 | 527.8 | 541.4 |
| 50°    | 414.5 | 414.5 | 419.2 | 430.4 | 443.2 | 459.2 | 469.6 | 481.5 | 494.3 | 509.5 | 523.1 |
| 52.5°  | 384.1 | 385.7 | 392.9 | 403.3 | 420.0 | 434.4 | 446.4 | 459.2 | 474.3 | 490.3 | 505.5 |
| 55°    | 353.8 | 357.0 | 362.5 | 376.9 | 394.5 | 408.1 | 422.4 | 438.4 | 452.8 | 470.3 | 487.9 |
| 57.5°  | 324.2 | 326.6 | 335.4 | 349.8 | 368.1 | 384.9 | 400.1 | 415.2 | 432.8 | 450.4 | 468.8 |
| 60°    | 293.9 | 297.1 | 307.4 | 321.8 | 341.8 | 359.4 | 376.9 | 392.9 | 411.3 | 429.6 | 448.8 |
| 62.5°  | 265.1 | 267.5 | 279.5 | 296.3 | 316.2 | 335.4 | 353.0 | 372.1 | 392.1 | 409.7 | 428.8 |
| 65°    | 234.8 | 238.8 | 252.3 | 267.5 | 290.7 | 309.8 | 329.8 | 350.6 | 371.3 | 390.5 | 408.9 |
| 67.5°  | 206.8 | 209.2 | 223.6 | 241.2 | 264.3 | 285.9 | 306.6 | 329.0 | 350.6 | 370.5 | 388.9 |
| 70°    | 174.1 | 182.1 | 196.4 | 214.8 | 239.6 | 261.9 | 284.3 | 307.4 | 330.6 | 351.4 | 368.9 |
| 72.5°  | 146.9 | 153.3 | 169.3 | 189.3 | 213.2 | 239.6 | 262.7 | 287.5 | 310.6 | 332.2 | 350.6 |
| 75°    | 118.2 | 124.6 | 142.9 | 165.3 | 190.1 | 218.0 | 242.0 | 267.5 | 291.5 | 313.0 | 332.2 |
| 77.5°  | 90.2  | 98.2  | 118.2 | 141.3 | 168.5 | 197.2 | 222.0 | 247.6 | 272.3 | 295.5 | 314.6 |
| 80°    | 64.7  | 73.5  | 95.0  | 121.4 | 147.7 | 176.5 | 203.6 | 229.2 | 253.9 | 277.1 | 297.1 |
| 82.5°  | 41.5  | 51.1  | 74.3  | 100.6 | 128.6 | 157.3 | 185.3 | 210.8 | 235.6 | 258.7 | 279.5 |
| 85°    | 22.4  | 32.7  | 56.7  | 83.0  | 111.0 | 139.7 | 167.7 | 194.8 | 218.8 | 240.4 | 262.7 |
| 87.5°  | 6.4   | 19.2  | 42.3  | 68.7  | 97.4  | 123.8 | 150.9 | 178.1 | 202.0 | 225.2 | 245.2 |
| 90°    | 0.8   | 11.2  | 31.9  | 56.7  | 84.6  | 110.2 | 137.4 | 162.9 | 186.9 | 210.0 | 230.0 |
| 92.5°  | 0.8   | 7.2   | 24.8  | 47.1  | 72.7  | 99.0  | 126.2 | 150.9 | 173.3 | 196.4 | 216.4 |
| 95°    | 0.8   | 5.6   | 20.0  | 39.9  | 63.9  | 88.6  | 114.2 | 138.2 | 161.3 | 182.9 | 202.8 |
| 97.5°  | 0.8   | 4.0   | 16.0  | 34.3  | 55.9  | 79.1  | 103.8 | 127.8 | 150.1 | 170.9 | 189.3 |
| 100°   | 0.8   | 3.2   | 12.8  | 29.5  | 48.7  | 71.1  | 93.4  | 116.6 | 138.2 | 158.1 | 177.3 |
| 102.5° | 0.8   | 2.4   | 11.2  | 24.8  | 43.1  | 63.1  | 84.6  | 106.2 | 127.0 | 146.1 | 165.3 |
| 105°   | 0.8   | 2.4   | 9.6   | 21.6  | 38.3  | 56.7  | 76.7  | 97.4  | 116.6 | 135.0 | 152.5 |
| 107.5° | 0.8   | 1.6   | 8.0   | 18.4  | 33.5  | 51.1  | 69.5  | 89.4  | 107.0 | 124.6 | 141.3 |
| 110°   | 0.8   | 1.6   | 6.4   | 16.8  | 29.5  | 45.5  | 63.1  | 81.5  | 98.2  | 115.0 | 131.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°   | 50°   |
|--------|-----|-----|-----|------|------|------|------|------|------|-------|-------|
| 112.5° | 0.8 | 1.6 | 5.6 | 14.4 | 25.6 | 40.7 | 56.7 | 73.5 | 89.4 | 106.2 | 120.6 |
| 115°   | 0.8 | 1.6 | 4.8 | 12.8 | 24.0 | 35.1 | 51.1 | 66.3 | 82.3 | 97.4  | 111.0 |
| 117.5° | 0.8 | 1.6 | 4.0 | 10.4 | 20.8 | 31.9 | 44.7 | 59.9 | 74.3 | 88.6  | 101.4 |
| 120°   | 0.8 | 1.6 | 3.2 | 9.6  | 18.4 | 28.7 | 39.9 | 53.5 | 67.1 | 80.7  | 94.2  |
| 122.5° | 0.8 | 0.8 | 3.2 | 8.0  | 16.0 | 25.6 | 36.7 | 47.1 | 59.9 | 72.7  | 84.6  |
| 125°   | 0.8 | 0.8 | 3.2 | 7.2  | 13.6 | 23.2 | 32.7 | 42.3 | 53.5 | 64.7  | 75.1  |
| 127.5° | 0.8 | 0.8 | 2.4 | 5.6  | 12.0 | 20.0 | 28.7 | 39.1 | 47.1 | 57.5  | 67.9  |
| 130°   | 0.8 | 0.8 | 2.4 | 4.8  | 10.4 | 16.8 | 25.6 | 34.3 | 43.9 | 51.1  | 59.9  |
| 132.5° | 0.8 | 0.8 | 2.4 | 4.0  | 8.0  | 13.6 | 21.6 | 29.5 | 38.3 | 46.3  | 53.5  |
| 135°   | 0.8 | 0.8 | 1.6 | 3.2  | 6.4  | 11.2 | 17.6 | 24.8 | 33.5 | 41.5  | 48.7  |
| 137.5° | 0.8 | 0.8 | 1.6 | 3.2  | 4.8  | 9.6  | 13.6 | 20.0 | 27.9 | 35.1  | 42.3  |
| 140°   | 0.8 | 0.8 | 1.6 | 2.4  | 4.0  | 7.2  | 11.2 | 16.0 | 22.4 | 28.7  | 36.7  |
| 142.5° | 0.8 | 0.8 | 0.8 | 2.4  | 3.2  | 5.6  | 8.8  | 12.8 | 17.6 | 23.2  | 29.5  |
| 145°   | 0.8 | 0.8 | 0.8 | 2.4  | 3.2  | 4.0  | 7.2  | 10.4 | 13.6 | 17.6  | 23.2  |
| 147.5° | 0.8 | 0.8 | 0.8 | 1.6  | 2.4  | 3.2  | 5.6  | 8.0  | 10.4 | 13.6  | 16.8  |
| 150°   | 0.8 | 0.8 | 0.8 | 1.6  | 2.4  | 3.2  | 4.0  | 5.6  | 8.0  | 11.2  | 13.6  |
| 152.5° | 0.8 | 0.8 | 0.8 | 1.6  | 1.6  | 2.4  | 3.2  | 4.0  | 5.6  | 8.0   | 9.6   |
| 155°   | 0.8 | 0.8 | 0.8 | 0.8  | 1.6  | 2.4  | 3.2  | 3.2  | 4.0  | 5.6   | 7.2   |
| 157.5° | 0.8 | 0.8 | 0.8 | 0.8  | 1.6  | 1.6  | 2.4  | 2.4  | 3.2  | 3.2   | 4.8   |
| 160°   | 0.8 | 0.8 | 0.8 | 0.8  | 0.8  | 1.6  | 1.6  | 2.4  | 2.4  | 2.4   | 2.4   |
| 162.5° | 0.8 | 0.8 | 0.8 | 0.8  | 0.8  | 0.8  | 1.6  | 1.6  | 1.6  | 2.4   | 2.4   |
| 165°   | 0.8 | 0.8 | 0.8 | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.6  | 1.6   | 1.6   |
| 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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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 |
| 2.5°   | 751.4 | 752.2 | 754.6 | 754.6 | 753.0 | 753.0 | 752.2 | 751.4 | 752.2 | 753.8 | 753.8 |
| 5°     | 749.8 | 750.6 | 753.0 | 753.8 | 752.2 | 751.4 | 751.4 | 750.6 | 751.4 | 753.0 | 753.0 |
| 7.5°   | 746.7 | 747.4 | 749.8 | 750.6 | 749.0 | 749.0 | 748.2 | 747.4 | 749.0 | 749.8 | 749.8 |
| 10°    | 741.9 | 742.7 | 745.9 | 746.7 | 745.9 | 745.1 | 745.1 | 744.3 | 745.1 | 746.7 | 746.7 |
| 12.5°  | 735.5 | 737.1 | 741.1 | 741.1 | 741.1 | 740.3 | 740.3 | 739.5 | 740.3 | 741.9 | 741.1 |
| 15°    | 728.3 | 731.5 | 734.7 | 736.3 | 736.3 | 736.3 | 735.5 | 734.7 | 736.3 | 737.1 | 736.3 |
| 17.5°  | 720.3 | 724.3 | 729.1 | 730.7 | 730.7 | 731.5 | 730.7 | 729.9 | 731.5 | 731.5 | 730.7 |
| 20°    | 712.3 | 716.3 | 721.1 | 722.7 | 724.3 | 725.1 | 725.1 | 724.3 | 725.1 | 725.9 | 725.1 |
| 22.5°  | 701.9 | 706.7 | 712.3 | 714.7 | 716.3 | 717.9 | 717.9 | 717.9 | 718.7 | 719.5 | 717.9 |
| 25°    | 690.8 | 696.3 | 702.7 | 705.1 | 708.3 | 709.1 | 709.9 | 709.9 | 710.7 | 711.5 | 709.1 |
| 27.5°  | 678.8 | 685.2 | 691.5 | 695.5 | 697.9 | 699.5 | 699.5 | 700.3 | 701.1 | 701.9 | 699.5 |
| 30°    | 664.4 | 674.0 | 679.6 | 682.8 | 686.0 | 688.4 | 689.2 | 690.0 | 690.8 | 691.5 | 689.2 |
| 32.5°  | 651.6 | 659.6 | 666.8 | 670.8 | 674.8 | 678.0 | 678.8 | 678.8 | 680.4 | 680.4 | 678.0 |
| 35°    | 636.4 | 646.0 | 653.2 | 657.2 | 662.0 | 664.4 | 666.0 | 666.0 | 667.6 | 667.6 | 665.2 |
| 37.5°  | 621.3 | 630.9 | 638.8 | 643.6 | 649.2 | 652.4 | 653.2 | 653.2 | 654.8 | 654.8 | 651.6 |
| 40°    | 605.3 | 615.7 | 624.5 | 630.1 | 634.9 | 638.8 | 639.6 | 642.0 | 642.0 | 641.2 | 638.0 |
| 42.5°  | 589.3 | 598.9 | 608.5 | 614.9 | 621.3 | 625.3 | 626.9 | 627.7 | 627.7 | 626.9 | 624.5 |
| 45°    | 571.8 | 582.9 | 591.7 | 599.7 | 606.1 | 610.1 | 612.5 | 613.3 | 613.3 | 611.7 | 609.3 |
| 47.5°  | 555.0 | 566.2 | 575.0 | 583.7 | 590.1 | 594.9 | 597.3 | 598.1 | 597.3 | 596.5 | 594.1 |
| 50°    | 537.4 | 550.2 | 559.0 | 567.8 | 574.2 | 578.2 | 582.1 | 582.9 | 582.1 | 581.3 | 576.6 |
| 52.5°  | 519.1 | 532.6 | 542.2 | 551.0 | 558.2 | 563.0 | 566.2 | 567.0 | 567.0 | 565.4 | 562.2 |
| 55°    | 500.7 | 512.7 | 524.7 | 534.2 | 542.2 | 547.0 | 551.0 | 552.6 | 551.0 | 549.4 | 545.4 |
| 57.5°  | 483.9 | 495.1 | 507.1 | 517.5 | 525.4 | 531.8 | 535.0 | 536.6 | 535.0 | 532.6 | 528.6 |
| 60°    | 464.0 | 475.9 | 489.5 | 499.1 | 507.9 | 514.3 | 515.9 | 519.1 | 517.5 | 515.1 | 511.1 |
| 62.5°  | 444.8 | 459.2 | 471.1 | 483.1 | 490.3 | 497.5 | 500.7 | 502.3 | 500.7 | 498.3 | 494.3 |
| 65°    | 424.8 | 440.8 | 452.8 | 464.8 | 472.7 | 479.9 | 483.9 | 484.7 | 483.1 | 480.7 | 476.7 |
| 67.5°  | 406.5 | 421.6 | 434.4 | 447.2 | 454.4 | 461.6 | 465.6 | 467.2 | 465.6 | 462.4 | 458.4 |
| 70°    | 388.1 | 403.3 | 418.4 | 428.0 | 436.8 | 444.8 | 447.2 | 449.6 | 448.0 | 444.8 | 440.0 |
| 72.5°  | 369.7 | 385.7 | 400.9 | 410.5 | 420.0 | 427.2 | 430.4 | 432.8 | 431.2 | 428.0 | 422.4 |
| 75°    | 350.6 | 367.3 | 382.5 | 392.9 | 402.5 | 409.7 | 412.9 | 415.2 | 413.7 | 410.5 | 404.1 |
| 77.5°  | 333.0 | 349.8 | 364.1 | 375.3 | 384.9 | 391.3 | 396.9 | 397.7 | 396.1 | 392.9 | 386.5 |
| 80°    | 314.6 | 331.4 | 346.6 | 357.8 | 367.3 | 373.7 | 377.7 | 380.1 | 378.5 | 375.3 | 368.9 |
| 82.5°  | 298.7 | 313.8 | 329.0 | 340.2 | 349.8 | 357.8 | 360.9 | 363.3 | 362.5 | 357.8 | 353.0 |
| 85°    | 281.1 | 298.7 | 310.6 | 322.6 | 332.2 | 340.2 | 342.6 | 345.8 | 345.0 | 341.0 | 334.6 |
| 87.5°  | 263.5 | 281.1 | 295.5 | 307.4 | 316.2 | 322.6 | 326.6 | 328.2 | 327.4 | 323.4 | 316.2 |
| 90°    | 249.1 | 265.1 | 279.5 | 292.3 | 299.5 | 306.6 | 310.6 | 311.4 | 311.4 | 306.6 | 301.1 |
| 92.5°  | 235.6 | 250.7 | 265.1 | 277.1 | 285.9 | 292.3 | 295.5 | 297.1 | 296.3 | 292.3 | 285.9 |
| 95°    | 220.4 | 237.2 | 250.7 | 262.7 | 271.5 | 277.9 | 281.1 | 282.7 | 281.9 | 277.9 | 271.5 |
| 97.5°  | 207.6 | 222.8 | 236.4 | 247.6 | 256.3 | 262.7 | 265.9 | 267.5 | 267.5 | 263.5 | 257.1 |
| 100°   | 194.8 | 210.0 | 222.8 | 234.0 | 242.0 | 248.4 | 251.5 | 252.3 | 251.5 | 248.4 | 242.0 |
| 102.5° | 182.1 | 196.4 | 209.2 | 219.6 | 228.4 | 234.0 | 237.2 | 238.0 | 238.0 | 234.0 | 227.6 |
| 105°   | 169.3 | 183.7 | 195.6 | 206.8 | 214.0 | 219.6 | 222.0 | 224.4 | 223.6 | 220.4 | 214.0 |
| 107.5° | 157.3 | 171.7 | 182.9 | 193.3 | 200.4 | 206.0 | 208.4 | 210.8 | 210.0 | 206.8 | 200.4 |
| 110°   | 146.1 | 159.7 | 170.1 | 180.5 | 186.9 | 192.5 | 196.4 | 197.2 | 195.6 | 192.5 | 186.9 |

TEST NUMBER: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 135.8 | 147.7 | 158.1 | 167.7 | 174.9 | 178.9 | 182.1 | 183.7 | 182.1 | 178.9 | 174.9 |
| 115°   | 124.6 | 136.6 | 146.9 | 155.7 | 162.1 | 166.9 | 169.3 | 170.9 | 169.3 | 166.1 | 162.1 |
| 117.5° | 114.2 | 125.4 | 135.8 | 144.5 | 150.1 | 154.1 | 156.5 | 158.1 | 156.5 | 154.1 | 150.1 |
| 120°   | 105.4 | 115.0 | 124.6 | 132.6 | 138.9 | 142.1 | 144.5 | 146.1 | 145.3 | 142.1 | 138.2 |
| 122.5° | 95.0  | 105.4 | 114.2 | 122.2 | 127.8 | 131.0 | 132.6 | 134.2 | 133.4 | 131.0 | 127.0 |
| 125°   | 86.2  | 95.0  | 103.8 | 111.0 | 116.6 | 119.8 | 121.4 | 123.0 | 122.2 | 119.8 | 115.0 |
| 127.5° | 76.7  | 86.2  | 93.4  | 100.6 | 104.6 | 109.4 | 110.2 | 111.8 | 111.0 | 108.6 | 104.6 |
| 130°   | 69.5  | 76.7  | 83.8  | 90.2  | 95.0  | 98.2  | 99.8  | 100.6 | 99.0  | 97.4  | 93.4  |
| 132.5° | 60.7  | 68.7  | 75.1  | 80.7  | 83.8  | 87.0  | 88.6  | 89.4  | 89.4  | 87.0  | 83.8  |
| 135°   | 54.3  | 59.9  | 65.5  | 71.1  | 74.3  | 77.5  | 79.1  | 79.9  | 79.1  | 77.5  | 74.3  |
| 137.5° | 48.7  | 53.5  | 57.5  | 62.3  | 66.3  | 67.9  | 69.5  | 69.5  | 68.7  | 67.9  | 65.5  |
| 140°   | 42.3  | 47.9  | 51.9  | 55.1  | 58.3  | 59.1  | 60.7  | 60.7  | 59.9  | 59.1  | 57.5  |
| 142.5° | 35.9  | 40.7  | 44.7  | 48.7  | 51.1  | 52.7  | 53.5  | 54.3  | 53.5  | 52.7  | 50.3  |
| 145°   | 28.7  | 34.3  | 38.3  | 40.7  | 43.9  | 44.7  | 45.5  | 46.3  | 45.5  | 44.7  | 42.3  |
| 147.5° | 22.4  | 27.2  | 31.1  | 34.3  | 36.7  | 37.5  | 38.3  | 39.1  | 38.3  | 36.7  | 35.9  |
| 150°   | 16.0  | 20.0  | 24.8  | 27.9  | 29.5  | 31.1  | 31.1  | 31.1  | 31.9  | 30.3  | 28.7  |
| 152.5° | 12.8  | 14.4  | 17.6  | 20.8  | 23.2  | 24.0  | 24.8  | 24.8  | 24.0  | 24.0  | 22.4  |
| 155°   | 8.8   | 10.4  | 12.8  | 15.2  | 17.6  | 18.4  | 19.2  | 19.2  | 18.4  | 18.4  | 17.6  |
| 157.5° | 5.6   | 7.2   | 8.8   | 10.4  | 12.8  | 13.6  | 14.4  | 14.4  | 14.4  | 13.6  | 12.8  |
| 160°   | 3.2   | 4.0   | 4.8   | 6.4   | 8.0   | 8.8   | 9.6   | 9.6   | 9.6   | 9.6   | 8.8   |
| 162.5° | 2.4   | 2.4   | 2.4   | 3.2   | 4.0   | 4.8   | 5.6   | 5.6   | 5.6   | 5.6   | 4.8   |
| 165°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.4   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   |
| 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: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 |
| 2.5°   | 753.0 | 753.0 | 753.8 | 752.2 | 747.4 | 748.2 | 748.2 | 751.4 | 753.0 | 753.8 | 757.8 |
| 5°     | 751.4 | 751.4 | 753.0 | 750.6 | 746.7 | 746.7 | 746.7 | 749.8 | 750.6 | 752.2 | 755.4 |
| 7.5°   | 749.0 | 749.0 | 749.8 | 747.4 | 742.7 | 742.7 | 741.9 | 745.1 | 746.7 | 747.4 | 750.6 |
| 10°    | 745.1 | 745.1 | 745.9 | 743.5 | 737.9 | 737.9 | 737.1 | 739.5 | 740.3 | 741.9 | 744.3 |
| 12.5°  | 739.5 | 739.5 | 739.5 | 737.1 | 731.5 | 730.7 | 729.9 | 732.3 | 732.3 | 733.1 | 735.5 |
| 15°    | 734.7 | 733.1 | 733.1 | 730.7 | 725.1 | 723.5 | 721.9 | 722.7 | 724.3 | 723.5 | 725.1 |
| 17.5°  | 729.1 | 727.5 | 725.9 | 723.5 | 716.3 | 713.9 | 712.3 | 713.1 | 712.3 | 711.5 | 713.1 |
| 20°    | 722.7 | 720.3 | 719.5 | 715.5 | 708.3 | 704.3 | 701.1 | 699.5 | 700.3 | 697.9 | 698.7 |
| 22.5°  | 715.5 | 712.3 | 710.7 | 705.9 | 698.7 | 693.9 | 690.0 | 686.8 | 686.0 | 682.8 | 683.6 |
| 25°    | 706.7 | 702.7 | 700.3 | 696.3 | 688.4 | 682.8 | 678.0 | 673.2 | 670.8 | 666.8 | 666.0 |
| 27.5°  | 696.3 | 692.3 | 689.2 | 685.2 | 677.2 | 670.0 | 664.4 | 658.0 | 654.8 | 650.0 | 647.6 |
| 30°    | 686.0 | 681.2 | 676.4 | 673.2 | 664.4 | 656.4 | 647.6 | 642.0 | 637.2 | 631.7 | 627.7 |
| 32.5°  | 673.2 | 668.4 | 663.6 | 658.8 | 650.8 | 641.2 | 634.1 | 625.3 | 619.7 | 613.3 | 608.5 |
| 35°    | 660.4 | 654.0 | 649.2 | 642.8 | 635.7 | 624.5 | 615.7 | 606.9 | 599.7 | 592.5 | 586.9 |
| 37.5°  | 646.0 | 641.2 | 634.1 | 628.5 | 619.7 | 608.5 | 598.9 | 587.7 | 581.3 | 571.8 | 564.6 |
| 40°    | 632.5 | 626.9 | 619.7 | 612.5 | 603.7 | 590.9 | 580.6 | 567.8 | 560.6 | 549.4 | 542.2 |
| 42.5°  | 618.9 | 610.9 | 603.7 | 595.7 | 586.1 | 574.2 | 561.4 | 548.6 | 539.0 | 528.6 | 518.3 |
| 45°    | 603.7 | 594.9 | 586.1 | 577.4 | 567.8 | 555.8 | 542.2 | 528.6 | 516.7 | 507.1 | 494.3 |
| 47.5°  | 587.7 | 579.0 | 568.6 | 559.0 | 548.6 | 536.6 | 522.3 | 507.9 | 495.1 | 483.9 | 470.3 |
| 50°    | 571.8 | 563.0 | 551.8 | 541.4 | 529.4 | 517.5 | 502.3 | 485.5 | 471.9 | 457.6 | 445.6 |
| 52.5°  | 555.0 | 546.2 | 535.8 | 522.3 | 509.5 | 497.5 | 481.5 | 464.0 | 448.8 | 436.8 | 421.6 |
| 55°    | 538.2 | 529.4 | 517.5 | 503.9 | 491.1 | 475.9 | 460.8 | 443.2 | 426.4 | 412.1 | 396.9 |
| 57.5°  | 520.7 | 512.7 | 499.1 | 487.9 | 471.9 | 456.0 | 440.0 | 423.2 | 404.9 | 388.1 | 370.5 |
| 60°    | 503.1 | 494.3 | 481.5 | 468.0 | 452.0 | 436.0 | 419.2 | 400.9 | 381.7 | 363.3 | 347.4 |
| 62.5°  | 487.1 | 475.9 | 464.0 | 449.6 | 432.8 | 417.6 | 398.5 | 378.5 | 359.4 | 340.2 | 321.0 |
| 65°    | 468.8 | 456.8 | 445.6 | 431.2 | 413.7 | 396.1 | 376.9 | 357.0 | 336.2 | 315.4 | 296.3 |
| 67.5°  | 450.4 | 438.4 | 426.4 | 412.1 | 393.7 | 375.3 | 355.4 | 335.4 | 312.2 | 292.3 | 269.9 |
| 70°    | 432.0 | 422.4 | 407.3 | 392.1 | 375.3 | 355.4 | 335.4 | 313.8 | 289.9 | 268.3 | 245.2 |
| 72.5°  | 413.7 | 404.1 | 388.9 | 372.9 | 357.0 | 336.2 | 314.6 | 293.1 | 270.7 | 246.0 | 221.2 |
| 75°    | 396.1 | 384.1 | 370.5 | 355.4 | 338.6 | 317.0 | 295.5 | 273.1 | 246.8 | 223.6 | 198.0 |
| 77.5°  | 379.3 | 368.1 | 354.6 | 337.8 | 319.4 | 298.7 | 276.3 | 253.1 | 226.8 | 202.0 | 174.1 |
| 80°    | 360.9 | 349.8 | 336.2 | 319.4 | 301.1 | 281.1 | 257.1 | 233.2 | 207.6 | 180.5 | 151.7 |
| 82.5°  | 343.4 | 333.0 | 317.8 | 302.7 | 282.7 | 262.7 | 238.8 | 214.8 | 187.7 | 161.3 | 133.4 |
| 85°    | 325.0 | 314.6 | 300.3 | 284.3 | 265.1 | 243.6 | 221.2 | 197.2 | 170.1 | 142.9 | 115.0 |
| 87.5°  | 309.0 | 297.1 | 282.7 | 266.7 | 247.6 | 226.8 | 205.2 | 179.7 | 153.3 | 127.0 | 98.2  |
| 90°    | 292.3 | 281.1 | 266.7 | 250.7 | 231.6 | 210.8 | 188.5 | 164.5 | 138.9 | 111.8 | 84.6  |
| 92.5°  | 277.9 | 265.9 | 252.3 | 236.4 | 217.2 | 197.2 | 174.9 | 150.9 | 126.2 | 99.8  | 73.5  |
| 95°    | 263.5 | 251.5 | 238.8 | 222.8 | 203.6 | 183.7 | 161.3 | 138.2 | 114.2 | 88.6  | 63.9  |
| 97.5°  | 247.6 | 237.2 | 224.4 | 209.2 | 190.1 | 170.9 | 149.3 | 127.0 | 103.8 | 79.1  | 55.9  |
| 100°   | 234.8 | 222.8 | 210.8 | 194.8 | 177.3 | 158.9 | 137.4 | 115.8 | 93.4  | 70.3  | 48.7  |
| 102.5° | 220.4 | 209.2 | 197.2 | 182.1 | 164.5 | 146.1 | 126.2 | 105.4 | 84.6  | 63.1  | 42.3  |
| 105°   | 206.8 | 196.4 | 183.7 | 169.3 | 152.5 | 135.0 | 115.8 | 96.6  | 76.7  | 55.9  | 37.5  |
| 107.5° | 193.3 | 182.9 | 170.9 | 157.3 | 141.3 | 123.8 | 106.2 | 87.0  | 68.7  | 50.3  | 33.5  |
| 110°   | 179.7 | 170.1 | 158.9 | 145.3 | 130.2 | 114.2 | 97.4  | 79.9  | 61.5  | 44.7  | 29.5  |

TEST NUMBER: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 112.5° | 167.7 | 158.1 | 146.9 | 134.2 | 119.8 | 104.6 | 88.6 | 71.9 | 55.1 | 39.9 | 25.6 |
| 115°   | 155.7 | 146.9 | 135.8 | 124.6 | 110.2 | 95.8  | 80.7 | 64.7 | 49.5 | 35.9 | 22.4 |
| 117.5° | 143.7 | 135.0 | 124.6 | 113.4 | 100.6 | 87.0  | 72.7 | 57.5 | 44.7 | 31.9 | 20.0 |
| 120°   | 131.8 | 123.8 | 114.2 | 103.8 | 92.6  | 79.1  | 64.7 | 51.9 | 39.9 | 27.9 | 17.6 |
| 122.5° | 120.6 | 113.4 | 104.6 | 95.0  | 83.0  | 70.3  | 58.3 | 47.1 | 35.9 | 24.8 | 14.4 |
| 125°   | 110.2 | 103.0 | 95.0  | 85.4  | 74.3  | 63.1  | 52.7 | 42.3 | 31.1 | 21.6 | 12.0 |
| 127.5° | 99.8  | 92.6  | 84.6  | 75.9  | 67.1  | 56.7  | 47.1 | 37.5 | 27.9 | 19.2 | 10.4 |
| 130°   | 89.4  | 83.0  | 75.9  | 68.7  | 59.9  | 50.3  | 42.3 | 32.7 | 24.0 | 15.2 | 8.8  |
| 132.5° | 79.1  | 74.3  | 67.9  | 60.7  | 52.7  | 45.5  | 36.7 | 28.7 | 20.8 | 13.6 | 8.0  |
| 135°   | 70.3  | 65.5  | 59.9  | 53.5  | 47.1  | 39.9  | 31.9 | 24.8 | 17.6 | 11.2 | 6.4  |
| 137.5° | 62.3  | 58.3  | 52.7  | 47.1  | 41.5  | 34.3  | 27.9 | 20.8 | 14.4 | 9.6  | 4.8  |
| 140°   | 55.1  | 51.1  | 46.3  | 40.7  | 35.9  | 29.5  | 23.2 | 16.8 | 12.8 | 8.0  | 4.0  |
| 142.5° | 47.9  | 43.9  | 39.9  | 35.1  | 30.3  | 24.8  | 19.2 | 14.4 | 10.4 | 6.4  | 4.0  |
| 145°   | 40.7  | 37.5  | 33.5  | 29.5  | 24.8  | 20.0  | 16.0 | 12.0 | 8.0  | 4.8  | 3.2  |
| 147.5° | 33.5  | 31.1  | 27.2  | 24.0  | 20.0  | 16.0  | 12.8 | 9.6  | 6.4  | 4.0  | 2.4  |
| 150°   | 27.2  | 24.8  | 21.6  | 18.4  | 16.0  | 12.8  | 10.4 | 7.2  | 4.8  | 4.0  | 2.4  |
| 152.5° | 20.8  | 19.2  | 16.8  | 15.2  | 12.8  | 9.6   | 7.2  | 5.6  | 4.0  | 3.2  | 1.6  |
| 155°   | 16.8  | 15.2  | 13.6  | 11.2  | 9.6   | 7.2   | 5.6  | 4.0  | 3.2  | 2.4  | 1.6  |
| 157.5° | 12.0  | 11.2  | 9.6   | 8.0   | 6.4   | 4.8   | 4.0  | 4.0  | 2.4  | 1.6  | 0.8  |
| 160°   | 8.0   | 7.2   | 6.4   | 4.8   | 4.0   | 4.0   | 3.2  | 2.4  | 1.6  | 1.6  | 0.8  |
| 162.5° | 4.8   | 4.0   | 4.0   | 4.0   | 3.2   | 3.2   | 2.4  | 1.6  | 1.6  | 0.8  | 0.8  |
| 165°   | 3.2   | 3.2   | 3.2   | 2.4   | 2.4   | 2.4   | 1.6  | 0.8  | 0.8  | 0.8  | 0.8  |
| 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: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 |
| 2.5°   | 757.8 | 755.4 | 758.6 | 764.2 | 765.0 | 764.2 | 762.6 | 765.0 | 768.2 | 767.4 | 761.8 |
| 5°     | 756.2 | 753.0 | 756.2 | 761.8 | 761.8 | 761.0 | 760.2 | 762.6 | 765.8 | 765.0 | 760.2 |
| 7.5°   | 751.4 | 748.2 | 751.4 | 756.2 | 757.0 | 755.4 | 755.4 | 757.8 | 761.0 | 760.2 | 756.2 |
| 10°    | 745.1 | 741.9 | 743.5 | 749.0 | 750.6 | 749.0 | 749.0 | 751.4 | 755.4 | 754.6 | 749.8 |
| 12.5°  | 735.5 | 733.1 | 734.7 | 739.5 | 741.1 | 740.3 | 739.5 | 742.7 | 746.7 | 746.7 | 741.9 |
| 15°    | 725.1 | 721.9 | 723.5 | 729.1 | 729.9 | 728.3 | 729.1 | 731.5 | 736.3 | 736.3 | 732.3 |
| 17.5°  | 713.1 | 709.1 | 711.5 | 715.5 | 716.3 | 716.3 | 716.3 | 719.5 | 725.1 | 724.3 | 721.1 |
| 20°    | 699.5 | 693.9 | 695.5 | 699.5 | 701.1 | 701.1 | 701.1 | 706.7 | 710.7 | 710.7 | 707.5 |
| 22.5°  | 683.6 | 679.6 | 679.6 | 683.6 | 686.0 | 685.2 | 685.2 | 690.0 | 695.5 | 694.7 | 694.7 |
| 25°    | 665.2 | 662.0 | 660.4 | 665.2 | 666.0 | 666.8 | 668.4 | 673.2 | 679.6 | 679.6 | 680.4 |
| 27.5°  | 646.0 | 642.8 | 642.0 | 646.0 | 646.8 | 647.6 | 649.2 | 654.8 | 661.2 | 662.0 | 663.6 |
| 30°    | 627.7 | 622.9 | 621.3 | 624.5 | 626.1 | 626.9 | 626.9 | 635.7 | 641.2 | 643.6 | 646.8 |
| 32.5°  | 606.1 | 601.3 | 597.3 | 602.9 | 603.7 | 605.3 | 606.1 | 614.9 | 621.3 | 625.3 | 630.1 |
| 35°    | 584.5 | 576.6 | 575.0 | 579.0 | 580.6 | 581.3 | 582.9 | 592.5 | 601.3 | 604.5 | 610.9 |
| 37.5°  | 560.6 | 555.0 | 550.2 | 554.2 | 555.8 | 556.6 | 561.4 | 570.2 | 579.0 | 583.7 | 590.1 |
| 40°    | 538.2 | 531.0 | 527.0 | 529.4 | 531.0 | 531.8 | 537.4 | 547.0 | 557.4 | 563.0 | 571.0 |
| 42.5°  | 513.5 | 503.9 | 500.7 | 503.1 | 503.9 | 506.3 | 511.1 | 523.9 | 534.2 | 542.2 | 548.6 |
| 45°    | 488.7 | 481.5 | 474.3 | 476.7 | 477.5 | 479.1 | 486.3 | 499.9 | 511.1 | 520.7 | 527.8 |
| 47.5°  | 463.2 | 454.4 | 447.2 | 448.8 | 452.0 | 452.8 | 460.8 | 476.7 | 487.1 | 497.5 | 507.1 |
| 50°    | 437.6 | 425.6 | 420.0 | 420.0 | 421.6 | 425.6 | 436.0 | 452.0 | 463.2 | 475.1 | 485.5 |
| 52.5°  | 411.3 | 400.1 | 393.7 | 394.5 | 396.1 | 400.9 | 410.5 | 426.4 | 439.2 | 452.0 | 464.8 |
| 55°    | 384.9 | 372.9 | 366.5 | 364.9 | 366.5 | 372.9 | 384.1 | 400.9 | 413.7 | 428.8 | 442.4 |
| 57.5°  | 358.6 | 344.2 | 338.6 | 336.2 | 337.8 | 345.8 | 357.0 | 374.5 | 390.5 | 404.9 | 420.8 |
| 60°    | 329.8 | 318.6 | 309.0 | 303.5 | 307.4 | 317.8 | 329.8 | 348.2 | 364.9 | 380.9 | 398.5 |
| 62.5°  | 305.0 | 290.7 | 280.3 | 274.7 | 278.7 | 287.5 | 304.2 | 321.8 | 340.2 | 358.6 | 376.1 |
| 65°    | 277.1 | 262.7 | 250.7 | 245.2 | 249.1 | 259.5 | 276.3 | 295.5 | 315.4 | 333.8 | 354.6 |
| 67.5°  | 249.9 | 234.8 | 220.4 | 214.8 | 219.6 | 230.8 | 249.1 | 270.7 | 292.3 | 311.4 | 333.8 |
| 70°    | 223.6 | 206.8 | 191.7 | 187.7 | 190.9 | 206.0 | 223.6 | 245.2 | 267.5 | 289.9 | 313.0 |
| 72.5°  | 199.6 | 178.9 | 162.9 | 158.1 | 162.1 | 178.9 | 198.8 | 221.2 | 245.2 | 269.1 | 293.9 |
| 75°    | 171.7 | 152.5 | 135.0 | 129.4 | 134.2 | 149.3 | 174.1 | 198.0 | 223.6 | 249.1 | 272.3 |
| 77.5°  | 149.3 | 127.0 | 108.6 | 99.8  | 107.8 | 127.0 | 150.9 | 176.5 | 202.8 | 229.2 | 255.5 |
| 80°    | 126.2 | 103.0 | 83.0  | 73.5  | 82.3  | 103.0 | 127.0 | 154.9 | 184.5 | 210.8 | 234.8 |
| 82.5°  | 105.4 | 80.7  | 59.9  | 49.5  | 59.1  | 82.3  | 108.6 | 136.6 | 165.3 | 191.7 | 219.6 |
| 85°    | 86.2  | 60.7  | 39.1  | 27.9  | 41.5  | 62.3  | 90.2  | 119.0 | 148.5 | 175.7 | 202.8 |
| 87.5°  | 70.3  | 45.5  | 24.0  | 12.0  | 25.6  | 48.7  | 75.1  | 103.8 | 133.4 | 160.5 | 186.1 |
| 90°    | 57.5  | 32.7  | 12.8  | 1.6   | 15.2  | 36.7  | 62.3  | 90.2  | 118.2 | 146.1 | 171.7 |
| 92.5°  | 47.1  | 24.8  | 7.2   | 0.8   | 9.6   | 29.5  | 53.5  | 79.9  | 107.0 | 134.2 | 158.9 |
| 95°    | 39.1  | 19.2  | 4.8   | 0.8   | 7.2   | 23.2  | 45.5  | 71.1  | 96.6  | 123.0 | 147.7 |
| 97.5°  | 33.5  | 16.0  | 4.0   | 0.8   | 5.6   | 20.0  | 39.1  | 63.1  | 87.8  | 112.6 | 136.6 |
| 100°   | 28.7  | 12.8  | 3.2   | 0.8   | 4.8   | 16.8  | 34.3  | 55.9  | 79.1  | 103.0 | 126.2 |
| 102.5° | 24.8  | 10.4  | 2.4   | 0.8   | 4.0   | 14.4  | 30.3  | 50.3  | 71.1  | 94.2  | 116.6 |
| 105°   | 21.6  | 8.8   | 2.4   | 0.8   | 3.2   | 12.8  | 27.2  | 44.7  | 65.5  | 86.2  | 107.8 |
| 107.5° | 18.4  | 7.2   | 1.6   | 0.8   | 2.4   | 10.4  | 24.0  | 40.7  | 59.1  | 79.1  | 99.0  |
| 110°   | 16.0  | 6.4   | 1.6   | 0.8   | 2.4   | 9.6   | 20.8  | 36.7  | 53.5  | 71.9  | 91.0  |

TEST NUMBER: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 13.6 | 4.8  | 1.6  | 0.8  | 1.6  | 8.0  | 18.4 | 32.7 | 48.7 | 65.5 | 83.8 |
| 115°   | 12.0 | 4.0  | 0.8  | 0.8  | 1.6  | 7.2  | 16.8 | 29.5 | 43.9 | 59.9 | 76.7 |
| 117.5° | 9.6  | 3.2  | 0.8  | 0.8  | 0.8  | 5.6  | 14.4 | 26.4 | 39.9 | 55.1 | 70.3 |
| 120°   | 8.0  | 3.2  | 0.8  | 0.8  | 0.8  | 4.8  | 12.8 | 23.2 | 35.9 | 49.5 | 63.9 |
| 122.5° | 7.2  | 2.4  | 0.8  | 0.8  | 0.8  | 4.0  | 11.2 | 20.8 | 31.9 | 44.7 | 58.3 |
| 125°   | 6.4  | 2.4  | 0.8  | 0.8  | 0.8  | 3.2  | 9.6  | 18.4 | 28.7 | 39.9 | 52.7 |
| 127.5° | 4.8  | 2.4  | 0.8  | 0.8  | 0.8  | 2.4  | 8.8  | 16.0 | 25.6 | 35.9 | 47.1 |
| 130°   | 4.0  | 1.6  | 0.8  | 0.8  | 0.8  | 2.4  | 7.2  | 14.4 | 22.4 | 31.9 | 42.3 |
| 132.5° | 3.2  | 1.6  | 0.8  | 0.8  | 0.8  | 1.6  | 5.6  | 11.2 | 19.2 | 27.9 | 37.5 |
| 135°   | 3.2  | 1.6  | 0.8  | 0.8  | 0.8  | 1.6  | 4.0  | 9.6  | 16.0 | 24.0 | 31.9 |
| 137.5° | 3.2  | 0.8  | 0.8  | 0.8  | 0.8  | 1.6  | 3.2  | 7.2  | 12.8 | 19.2 | 26.4 |
| 140°   | 2.4  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 2.4  | 5.6  | 10.4 | 16.0 | 22.4 |
| 142.5° | 2.4  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 2.4  | 4.0  | 8.0  | 12.8 | 17.6 |
| 145°   | 1.6  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.6  | 3.2  | 6.4  | 9.6  | 14.4 |
| 147.5° | 1.6  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.6  | 2.4  | 4.8  | 8.0  | 11.2 |
| 150°   | 1.6  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.6  | 2.4  | 3.2  | 5.6  | 8.8  |
| 152.5° | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.6  | 1.6  | 2.4  | 4.0  | 5.6  |
| 155°   | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.6  | 2.4  | 3.2  | 4.0  |
| 157.5° | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.6  | 1.6  | 2.4  | 3.2  |
| 160°   | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.6  | 1.6  | 2.4  |
| 162.5° | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 1.6  | 1.6  |
| 165°   | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 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: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 |
| 2.5°   | 759.4 | 753.8 | 755.4 | 754.6 | 756.2 | 758.6 | 758.6 | 757.8 | 757.8 | 756.2 | 754.6 |
| 5°     | 757.8 | 752.2 | 754.6 | 753.8 | 755.4 | 757.8 | 757.8 | 757.0 | 757.0 | 754.6 | 753.8 |
| 7.5°   | 753.0 | 749.0 | 750.6 | 750.6 | 752.2 | 754.6 | 754.6 | 753.8 | 753.8 | 751.4 | 750.6 |
| 10°    | 748.2 | 743.5 | 745.9 | 745.9 | 747.4 | 750.6 | 750.6 | 749.8 | 749.8 | 747.4 | 746.7 |
| 12.5°  | 740.3 | 735.5 | 739.5 | 740.3 | 741.9 | 745.1 | 744.3 | 744.3 | 744.3 | 741.9 | 741.1 |
| 15°    | 730.7 | 727.5 | 731.5 | 732.3 | 734.7 | 738.7 | 738.7 | 738.7 | 738.7 | 736.3 | 735.5 |
| 17.5°  | 720.3 | 717.9 | 721.9 | 723.5 | 726.7 | 730.7 | 730.7 | 731.5 | 732.3 | 730.7 | 729.9 |
| 20°    | 708.3 | 706.7 | 710.7 | 713.9 | 718.7 | 722.7 | 724.3 | 725.1 | 726.7 | 725.1 | 724.3 |
| 22.5°  | 694.7 | 694.7 | 700.3 | 703.5 | 709.1 | 713.1 | 715.5 | 717.9 | 719.5 | 717.9 | 717.1 |
| 25°    | 679.6 | 682.0 | 687.6 | 693.1 | 699.5 | 703.5 | 705.9 | 709.1 | 710.7 | 709.9 | 709.1 |
| 27.5°  | 665.2 | 668.4 | 675.6 | 681.2 | 686.8 | 693.1 | 695.5 | 699.5 | 701.1 | 701.1 | 700.3 |
| 30°    | 648.4 | 653.2 | 661.2 | 667.6 | 674.8 | 681.2 | 684.4 | 688.4 | 690.8 | 689.2 | 690.0 |
| 32.5°  | 632.5 | 640.4 | 646.8 | 654.0 | 662.0 | 668.4 | 672.4 | 677.2 | 679.6 | 678.8 | 679.6 |
| 35°    | 614.9 | 622.9 | 631.7 | 638.8 | 648.4 | 654.8 | 660.4 | 664.4 | 667.6 | 666.8 | 666.8 |
| 37.5°  | 595.7 | 606.1 | 614.9 | 624.5 | 633.3 | 640.4 | 646.0 | 650.8 | 654.0 | 654.0 | 654.0 |
| 40°    | 577.4 | 588.5 | 597.3 | 608.5 | 619.7 | 626.1 | 632.5 | 637.2 | 640.4 | 641.2 | 642.0 |
| 42.5°  | 557.4 | 569.4 | 579.8 | 591.7 | 602.9 | 610.9 | 618.1 | 623.7 | 626.9 | 628.5 | 627.7 |
| 45°    | 539.0 | 550.2 | 562.2 | 575.8 | 586.1 | 594.1 | 602.9 | 609.3 | 612.5 | 613.3 | 614.1 |
| 47.5°  | 518.3 | 531.0 | 544.6 | 558.2 | 568.6 | 579.0 | 586.9 | 593.3 | 596.5 | 598.9 | 598.9 |
| 50°    | 498.3 | 511.9 | 527.0 | 541.4 | 552.6 | 563.0 | 571.0 | 578.2 | 582.1 | 583.7 | 584.5 |
| 52.5°  | 479.9 | 492.7 | 508.7 | 523.1 | 534.2 | 544.6 | 555.0 | 563.0 | 567.0 | 568.6 | 568.6 |
| 55°    | 457.6 | 473.5 | 491.1 | 504.7 | 516.7 | 528.6 | 539.0 | 547.0 | 551.0 | 553.4 | 555.0 |
| 57.5°  | 436.8 | 453.6 | 471.9 | 486.3 | 500.7 | 511.9 | 521.5 | 531.8 | 535.0 | 538.2 | 539.0 |
| 60°    | 416.8 | 433.6 | 451.2 | 467.2 | 481.5 | 493.5 | 504.7 | 513.5 | 519.1 | 520.7 | 522.3 |
| 62.5°  | 396.1 | 413.7 | 432.0 | 448.0 | 463.2 | 477.5 | 487.9 | 495.9 | 502.3 | 504.7 | 506.3 |
| 65°    | 376.1 | 394.5 | 412.9 | 429.6 | 445.6 | 460.0 | 470.3 | 478.3 | 484.7 | 488.7 | 489.5 |
| 67.5°  | 354.6 | 374.5 | 393.7 | 411.3 | 427.2 | 442.4 | 452.8 | 460.8 | 467.2 | 471.9 | 472.7 |
| 70°    | 334.6 | 355.4 | 374.5 | 393.7 | 409.7 | 424.8 | 436.0 | 444.0 | 451.2 | 454.4 | 456.0 |
| 72.5°  | 315.4 | 337.0 | 357.0 | 376.1 | 392.1 | 407.3 | 419.2 | 427.2 | 434.4 | 438.4 | 439.2 |
| 75°    | 297.1 | 318.6 | 340.2 | 358.6 | 375.3 | 390.5 | 402.5 | 411.3 | 417.6 | 421.6 | 423.2 |
| 77.5°  | 278.7 | 301.1 | 322.6 | 341.0 | 358.6 | 373.7 | 384.1 | 394.5 | 400.9 | 405.7 | 405.7 |
| 80°    | 260.3 | 283.5 | 305.8 | 324.2 | 341.8 | 355.4 | 367.3 | 377.7 | 384.1 | 388.9 | 388.9 |
| 82.5°  | 244.4 | 266.7 | 288.3 | 306.6 | 324.2 | 339.4 | 351.4 | 360.9 | 368.1 | 371.3 | 372.1 |
| 85°    | 226.0 | 250.7 | 270.7 | 290.7 | 307.4 | 321.8 | 333.8 | 344.2 | 350.6 | 353.8 | 355.4 |
| 87.5°  | 210.8 | 234.8 | 256.3 | 273.9 | 290.7 | 305.0 | 318.6 | 327.4 | 333.8 | 337.8 | 339.4 |
| 90°    | 196.4 | 219.6 | 241.2 | 258.7 | 276.3 | 289.9 | 302.7 | 311.4 | 318.6 | 321.8 | 323.4 |
| 92.5°  | 183.7 | 206.8 | 227.6 | 245.2 | 261.9 | 277.1 | 289.1 | 297.9 | 304.2 | 307.4 | 309.8 |
| 95°    | 171.7 | 194.0 | 214.0 | 233.2 | 249.1 | 262.7 | 275.5 | 284.3 | 291.5 | 293.9 | 296.3 |
| 97.5°  | 159.7 | 181.3 | 201.2 | 219.6 | 236.4 | 249.1 | 261.1 | 269.9 | 275.5 | 279.5 | 281.9 |
| 100°   | 149.3 | 170.1 | 189.3 | 206.8 | 222.8 | 234.8 | 247.6 | 255.5 | 261.1 | 264.3 | 267.5 |
| 102.5° | 138.2 | 158.9 | 177.3 | 194.0 | 210.8 | 222.0 | 234.0 | 242.0 | 246.8 | 252.3 | 252.3 |
| 105°   | 128.6 | 147.7 | 166.1 | 182.1 | 196.4 | 210.0 | 220.4 | 228.4 | 234.0 | 238.0 | 238.0 |
| 107.5° | 118.2 | 137.4 | 154.9 | 171.7 | 185.3 | 198.0 | 207.6 | 214.8 | 221.2 | 223.6 | 226.0 |
| 110°   | 110.2 | 127.0 | 144.5 | 160.5 | 173.3 | 185.3 | 194.8 | 202.8 | 208.4 | 210.8 | 212.4 |



TEST NUMBER: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 100.6 | 118.2 | 134.2 | 149.3 | 162.1 | 173.3 | 182.9 | 189.3 | 194.8 | 198.0 | 198.8 |
| 115°   | 92.6  | 109.4 | 123.8 | 138.2 | 151.7 | 161.3 | 170.1 | 176.5 | 182.1 | 184.5 | 186.1 |
| 117.5° | 85.4  | 100.6 | 115.0 | 127.0 | 139.7 | 150.1 | 158.9 | 164.5 | 169.3 | 172.5 | 174.1 |
| 120°   | 78.3  | 92.6  | 105.4 | 117.4 | 129.4 | 138.9 | 146.9 | 152.5 | 158.1 | 160.5 | 160.5 |
| 122.5° | 71.1  | 84.6  | 96.6  | 107.8 | 119.0 | 127.8 | 136.6 | 141.3 | 146.1 | 148.5 | 148.5 |
| 125°   | 64.7  | 77.5  | 88.6  | 99.0  | 109.4 | 117.4 | 124.6 | 130.2 | 135.0 | 136.6 | 136.6 |
| 127.5° | 58.3  | 70.3  | 80.7  | 90.2  | 99.0  | 107.0 | 114.2 | 119.8 | 123.8 | 125.4 | 125.4 |
| 130°   | 52.7  | 63.1  | 72.7  | 82.3  | 91.0  | 97.4  | 104.6 | 109.4 | 111.8 | 114.2 | 115.0 |
| 132.5° | 47.1  | 56.7  | 65.5  | 73.5  | 82.3  | 88.6  | 94.2  | 99.0  | 101.4 | 103.8 | 104.6 |
| 135°   | 41.5  | 50.3  | 58.3  | 66.3  | 73.5  | 79.9  | 84.6  | 88.6  | 91.8  | 93.4  | 94.2  |
| 137.5° | 35.1  | 44.7  | 51.9  | 58.3  | 66.3  | 71.1  | 76.7  | 79.1  | 82.3  | 83.8  | 83.8  |
| 140°   | 29.5  | 36.7  | 44.7  | 51.1  | 57.5  | 62.3  | 67.1  | 71.1  | 73.5  | 74.3  | 74.3  |
| 142.5° | 24.0  | 30.3  | 36.7  | 44.7  | 50.3  | 54.3  | 59.1  | 62.3  | 63.9  | 64.7  | 65.5  |
| 145°   | 19.2  | 24.0  | 29.5  | 36.7  | 43.1  | 47.9  | 50.3  | 53.5  | 55.1  | 55.9  | 56.7  |
| 147.5° | 14.4  | 19.2  | 24.0  | 28.7  | 35.1  | 39.9  | 42.3  | 45.5  | 47.1  | 47.9  | 47.9  |
| 150°   | 11.2  | 14.4  | 17.6  | 22.4  | 27.2  | 32.7  | 35.9  | 38.3  | 39.1  | 39.9  | 39.9  |
| 152.5° | 8.0   | 11.2  | 13.6  | 16.8  | 20.0  | 24.8  | 29.5  | 31.1  | 31.9  | 32.7  | 32.7  |
| 155°   | 5.6   | 8.0   | 9.6   | 12.0  | 14.4  | 18.4  | 22.4  | 24.8  | 25.6  | 26.4  | 26.4  |
| 157.5° | 4.0   | 5.6   | 6.4   | 8.8   | 10.4  | 12.0  | 15.2  | 19.2  | 20.0  | 20.0  | 20.0  |
| 160°   | 2.4   | 3.2   | 4.0   | 5.6   | 6.4   | 8.0   | 9.6   | 12.0  | 14.4  | 14.4  | 14.4  |
| 162.5° | 1.6   | 2.4   | 2.4   | 3.2   | 3.2   | 4.8   | 5.6   | 6.4   | 8.8   | 9.6   | 9.6   |
| 165°   | 0.8   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.4   | 2.4   | 4.0   | 4.8   | 4.8   |
| 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: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 |
| 2.5°   | 755.4 | 757.0 | 756.2 | 756.2 | 756.2 | 757.8 | 756.2 | 749.0 | 750.6 | 752.2 | 753.8 |
| 5°     | 754.6 | 755.4 | 755.4 | 754.6 | 754.6 | 756.2 | 754.6 | 747.4 | 749.0 | 750.6 | 751.4 |
| 7.5°   | 751.4 | 752.2 | 752.2 | 752.2 | 751.4 | 753.0 | 750.6 | 744.3 | 744.3 | 745.9 | 746.7 |
| 10°    | 747.4 | 749.0 | 748.2 | 747.4 | 747.4 | 747.4 | 745.9 | 738.7 | 738.7 | 739.5 | 740.3 |
| 12.5°  | 742.7 | 742.7 | 742.7 | 741.9 | 741.1 | 741.1 | 739.5 | 732.3 | 731.5 | 733.1 | 732.3 |
| 15°    | 736.3 | 737.9 | 736.3 | 735.5 | 733.9 | 733.9 | 731.5 | 724.3 | 722.7 | 723.5 | 722.7 |
| 17.5°  | 730.7 | 731.5 | 729.9 | 728.3 | 726.7 | 725.9 | 723.5 | 715.5 | 713.1 | 713.9 | 712.3 |
| 20°    | 725.1 | 725.1 | 723.5 | 721.9 | 719.5 | 717.1 | 713.9 | 705.9 | 701.9 | 701.9 | 698.7 |
| 22.5°  | 717.9 | 717.9 | 716.3 | 713.9 | 711.5 | 708.3 | 705.1 | 697.1 | 690.8 | 689.2 | 686.8 |
| 25°    | 709.9 | 709.1 | 708.3 | 705.9 | 701.1 | 697.9 | 694.7 | 686.0 | 678.8 | 675.6 | 671.6 |
| 27.5°  | 700.3 | 700.3 | 697.9 | 695.5 | 690.8 | 686.8 | 682.8 | 674.8 | 665.2 | 661.2 | 655.6 |
| 30°    | 690.0 | 690.0 | 687.6 | 684.4 | 679.6 | 674.8 | 670.0 | 660.4 | 650.8 | 645.2 | 638.8 |
| 32.5°  | 679.6 | 678.8 | 676.4 | 673.2 | 668.4 | 661.2 | 657.2 | 647.6 | 636.4 | 630.1 | 621.3 |
| 35°    | 666.8 | 666.0 | 663.6 | 659.6 | 653.2 | 647.6 | 641.2 | 632.5 | 619.7 | 611.7 | 602.1 |
| 37.5°  | 654.0 | 653.2 | 651.6 | 646.0 | 639.6 | 633.3 | 625.3 | 616.5 | 604.5 | 594.1 | 584.5 |
| 40°    | 641.2 | 640.4 | 637.2 | 633.3 | 625.3 | 617.3 | 609.3 | 600.5 | 587.7 | 575.8 | 565.4 |
| 42.5°  | 627.7 | 626.9 | 622.9 | 618.1 | 609.3 | 601.3 | 591.7 | 582.1 | 569.4 | 555.0 | 544.6 |
| 45°    | 614.1 | 612.5 | 608.5 | 602.9 | 593.3 | 584.5 | 575.0 | 563.8 | 551.0 | 537.4 | 523.9 |
| 47.5°  | 599.7 | 597.3 | 593.3 | 585.3 | 577.4 | 567.8 | 556.6 | 544.6 | 531.8 | 516.7 | 502.3 |
| 50°    | 583.7 | 582.1 | 577.4 | 570.2 | 560.6 | 551.0 | 538.2 | 526.2 | 511.1 | 496.7 | 479.1 |
| 52.5°  | 568.6 | 565.4 | 561.4 | 553.4 | 543.8 | 533.4 | 519.9 | 505.5 | 490.3 | 476.7 | 458.4 |
| 55°    | 552.6 | 551.0 | 545.4 | 539.0 | 527.0 | 515.1 | 502.3 | 487.1 | 470.3 | 454.4 | 436.8 |
| 57.5°  | 537.4 | 534.2 | 529.4 | 520.7 | 510.3 | 498.3 | 484.7 | 468.8 | 450.4 | 433.6 | 414.5 |
| 60°    | 522.3 | 517.5 | 511.9 | 503.9 | 492.7 | 479.9 | 465.6 | 448.8 | 430.4 | 412.1 | 392.1 |
| 62.5°  | 505.5 | 501.5 | 495.1 | 487.1 | 475.9 | 462.4 | 447.2 | 429.6 | 412.1 | 392.9 | 371.3 |
| 65°    | 488.7 | 484.7 | 478.3 | 470.3 | 459.2 | 444.0 | 428.0 | 410.5 | 390.5 | 372.1 | 349.0 |
| 67.5°  | 471.9 | 468.0 | 460.8 | 452.0 | 440.8 | 426.4 | 409.7 | 391.3 | 371.3 | 351.4 | 327.4 |
| 70°    | 455.2 | 450.4 | 444.0 | 434.4 | 423.2 | 408.1 | 391.3 | 372.1 | 352.2 | 330.6 | 306.6 |
| 72.5°  | 438.4 | 434.4 | 426.4 | 417.6 | 405.7 | 390.5 | 373.7 | 354.6 | 333.8 | 311.4 | 287.5 |
| 75°    | 421.6 | 416.8 | 411.3 | 400.9 | 388.1 | 373.7 | 356.2 | 337.0 | 314.6 | 293.1 | 268.3 |
| 77.5°  | 404.9 | 400.9 | 393.7 | 383.3 | 371.3 | 356.2 | 338.6 | 319.4 | 297.1 | 274.7 | 248.4 |
| 80°    | 388.1 | 383.3 | 377.7 | 368.1 | 354.6 | 339.4 | 321.0 | 301.9 | 279.5 | 256.3 | 230.0 |
| 82.5°  | 371.3 | 366.5 | 360.1 | 350.6 | 337.8 | 322.6 | 305.0 | 284.3 | 261.9 | 238.0 | 213.2 |
| 85°    | 354.6 | 350.6 | 343.4 | 333.8 | 320.2 | 305.0 | 287.5 | 269.1 | 245.2 | 221.2 | 196.4 |
| 87.5°  | 337.8 | 333.8 | 326.6 | 317.0 | 304.2 | 289.1 | 271.5 | 252.3 | 229.2 | 206.8 | 179.7 |
| 90°    | 321.8 | 318.6 | 311.4 | 301.9 | 289.1 | 273.9 | 257.9 | 237.2 | 214.8 | 192.5 | 166.9 |
| 92.5°  | 307.4 | 304.2 | 297.9 | 288.3 | 277.1 | 260.3 | 244.4 | 224.4 | 202.0 | 178.9 | 154.1 |
| 95°    | 294.7 | 290.7 | 284.3 | 275.5 | 261.9 | 247.6 | 231.6 | 211.6 | 190.1 | 166.9 | 142.9 |
| 97.5°  | 280.3 | 276.3 | 269.9 | 260.3 | 249.1 | 234.0 | 218.0 | 198.8 | 177.3 | 155.7 | 131.8 |
| 100°   | 265.9 | 261.9 | 254.7 | 246.8 | 235.6 | 220.4 | 205.2 | 186.1 | 166.1 | 145.3 | 122.2 |
| 102.5° | 251.5 | 247.6 | 241.2 | 233.2 | 222.0 | 208.4 | 193.3 | 174.9 | 154.9 | 134.2 | 112.6 |
| 105°   | 238.0 | 234.0 | 227.6 | 219.6 | 209.2 | 195.6 | 179.7 | 163.7 | 144.5 | 124.6 | 103.8 |
| 107.5° | 224.4 | 220.4 | 214.8 | 206.8 | 196.4 | 183.7 | 168.5 | 151.7 | 134.2 | 115.0 | 95.0  |
| 110°   | 210.8 | 207.6 | 201.2 | 194.0 | 183.7 | 170.9 | 157.3 | 141.3 | 123.8 | 106.2 | 87.0  |

TEST NUMBER: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320° | 325° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 112.5° | 198.0 | 194.8 | 188.5 | 180.5 | 171.7 | 159.7 | 146.1 | 131.0 | 114.2 | 97.4 | 79.1 |
| 115°   | 185.3 | 181.3 | 175.7 | 168.5 | 159.7 | 148.5 | 135.8 | 122.2 | 105.4 | 89.4 | 72.7 |
| 117.5° | 172.5 | 169.3 | 163.7 | 156.5 | 148.5 | 137.4 | 125.4 | 112.6 | 96.6  | 81.5 | 66.3 |
| 120°   | 159.7 | 157.3 | 151.7 | 145.3 | 137.4 | 127.0 | 115.8 | 103.0 | 88.6  | 74.3 | 59.9 |
| 122.5° | 147.7 | 145.3 | 139.7 | 134.2 | 126.2 | 116.6 | 106.2 | 94.2  | 81.5  | 67.9 | 55.1 |
| 125°   | 136.6 | 133.4 | 128.6 | 123.0 | 115.8 | 107.0 | 96.6  | 85.4  | 73.5  | 61.5 | 49.5 |
| 127.5° | 124.6 | 122.2 | 119.0 | 112.6 | 105.4 | 97.4  | 87.8  | 78.3  | 67.1  | 55.9 | 44.7 |
| 130°   | 115.0 | 111.8 | 107.8 | 103.0 | 96.6  | 88.6  | 79.9  | 70.3  | 60.7  | 50.3 | 39.1 |
| 132.5° | 103.8 | 100.6 | 97.4  | 92.6  | 87.0  | 79.9  | 71.9  | 63.1  | 54.3  | 44.7 | 35.1 |
| 135°   | 93.4  | 91.0  | 87.8  | 83.0  | 77.5  | 71.9  | 63.9  | 55.9  | 47.9  | 39.1 | 31.1 |
| 137.5° | 83.8  | 81.5  | 78.3  | 75.1  | 69.5  | 63.9  | 56.7  | 49.5  | 42.3  | 34.3 | 27.2 |
| 140°   | 74.3  | 72.7  | 69.5  | 66.3  | 61.5  | 55.9  | 49.5  | 43.1  | 36.7  | 29.5 | 23.2 |
| 142.5° | 64.7  | 63.1  | 60.7  | 57.5  | 53.5  | 48.7  | 43.1  | 37.5  | 31.1  | 25.6 | 20.0 |
| 145°   | 55.9  | 55.1  | 52.7  | 49.5  | 46.3  | 41.5  | 36.7  | 31.9  | 26.4  | 21.6 | 16.0 |
| 147.5° | 47.1  | 46.3  | 44.7  | 42.3  | 39.1  | 35.1  | 31.1  | 26.4  | 22.4  | 17.6 | 12.8 |
| 150°   | 39.1  | 38.3  | 37.5  | 34.3  | 32.7  | 28.7  | 25.6  | 21.6  | 18.4  | 13.6 | 10.4 |
| 152.5° | 31.9  | 31.9  | 30.3  | 27.9  | 26.4  | 23.2  | 20.8  | 17.6  | 14.4  | 11.2 | 8.0  |
| 155°   | 25.6  | 24.8  | 24.0  | 22.4  | 20.8  | 18.4  | 16.0  | 13.6  | 11.2  | 8.0  | 5.6  |
| 157.5° | 20.0  | 19.2  | 18.4  | 16.8  | 15.2  | 14.4  | 12.0  | 9.6   | 7.2   | 5.6  | 4.0  |
| 160°   | 14.4  | 13.6  | 12.8  | 12.0  | 11.2  | 9.6   | 8.0   | 6.4   | 4.8   | 3.2  | 2.4  |
| 162.5° | 9.6   | 8.8   | 8.8   | 8.0   | 7.2   | 5.6   | 4.8   | 4.0   | 3.2   | 2.4  | 1.6  |
| 165°   | 4.8   | 4.8   | 4.0   | 4.0   | 3.2   | 2.4   | 2.4   | 2.4   | 1.6   | 1.6  | 0.8  |
| 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: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335°  | 340°  | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 |
| 2.5°   | 753.0 | 753.0 | 756.2 | 755.4 | 753.0 | 757.8 | 763.4 |
| 5°     | 750.6 | 750.6 | 753.0 | 753.0 | 750.6 | 755.4 | 760.2 |
| 7.5°   | 746.7 | 745.9 | 748.2 | 748.2 | 745.1 | 749.0 | 754.6 |
| 10°    | 739.5 | 738.7 | 741.1 | 741.1 | 737.9 | 741.9 | 746.7 |
| 12.5°  | 731.5 | 729.9 | 732.3 | 731.5 | 728.3 | 732.3 | 737.1 |
| 15°    | 721.1 | 720.3 | 721.9 | 720.3 | 717.1 | 721.1 | 725.9 |
| 17.5°  | 710.7 | 708.3 | 709.1 | 709.1 | 703.5 | 707.5 | 711.5 |
| 20°    | 697.1 | 693.9 | 694.7 | 693.9 | 690.0 | 692.3 | 697.1 |
| 22.5°  | 683.6 | 678.8 | 678.8 | 678.0 | 673.2 | 676.4 | 680.4 |
| 25°    | 666.8 | 661.2 | 661.2 | 660.4 | 654.8 | 657.2 | 661.2 |
| 27.5°  | 650.0 | 644.4 | 642.0 | 641.2 | 635.7 | 635.7 | 641.2 |
| 30°    | 632.5 | 624.5 | 622.9 | 620.5 | 614.9 | 614.9 | 619.7 |
| 32.5°  | 615.7 | 604.5 | 601.3 | 598.1 | 592.5 | 591.7 | 597.3 |
| 35°    | 593.3 | 584.5 | 579.0 | 575.8 | 569.4 | 567.8 | 572.6 |
| 37.5°  | 575.0 | 563.8 | 555.8 | 551.8 | 545.4 | 543.0 | 549.4 |
| 40°    | 555.0 | 543.0 | 532.6 | 530.2 | 520.7 | 517.5 | 523.1 |
| 42.5°  | 532.6 | 519.9 | 509.5 | 504.7 | 497.5 | 494.3 | 495.1 |
| 45°    | 510.3 | 496.7 | 485.5 | 479.1 | 471.9 | 466.4 | 469.6 |
| 47.5°  | 487.1 | 475.1 | 461.6 | 452.0 | 443.2 | 439.2 | 440.8 |
| 50°    | 464.0 | 449.6 | 436.8 | 426.4 | 416.0 | 411.3 | 414.5 |
| 52.5°  | 440.8 | 425.6 | 411.3 | 400.1 | 388.1 | 383.3 | 384.1 |
| 55°    | 418.4 | 402.5 | 385.7 | 373.7 | 362.5 | 355.4 | 353.8 |
| 57.5°  | 396.1 | 378.5 | 360.9 | 347.4 | 333.0 | 326.6 | 324.2 |
| 60°    | 372.1 | 353.8 | 335.4 | 319.4 | 304.2 | 297.1 | 293.9 |
| 62.5°  | 349.8 | 329.8 | 309.0 | 292.3 | 277.1 | 267.5 | 265.1 |
| 65°    | 328.2 | 305.0 | 284.3 | 265.1 | 248.4 | 238.0 | 234.8 |
| 67.5°  | 305.0 | 281.1 | 258.7 | 238.0 | 222.0 | 208.4 | 206.8 |
| 70°    | 283.5 | 257.9 | 233.2 | 211.6 | 194.0 | 180.5 | 174.1 |
| 72.5°  | 261.9 | 235.6 | 210.0 | 186.9 | 164.5 | 151.7 | 146.9 |
| 75°    | 241.2 | 214.0 | 186.9 | 162.9 | 138.2 | 123.0 | 118.2 |
| 77.5°  | 222.0 | 194.0 | 165.3 | 138.9 | 115.8 | 96.6  | 90.2  |
| 80°    | 203.6 | 174.9 | 144.5 | 117.4 | 92.6  | 71.9  | 64.7  |
| 82.5°  | 184.5 | 157.3 | 126.2 | 97.4  | 71.9  | 50.3  | 41.5  |
| 85°    | 167.7 | 140.5 | 109.4 | 80.7  | 55.1  | 31.9  | 22.4  |
| 87.5°  | 154.1 | 124.6 | 96.6  | 67.9  | 41.5  | 18.4  | 6.4   |
| 90°    | 140.5 | 111.8 | 83.8  | 55.9  | 31.1  | 10.4  | 0.8   |
| 92.5°  | 128.6 | 101.4 | 73.5  | 47.9  | 24.0  | 7.2   | 0.8   |
| 95°    | 117.4 | 91.0  | 64.7  | 39.9  | 19.2  | 4.8   | 0.8   |
| 97.5°  | 107.0 | 82.3  | 57.5  | 34.3  | 16.0  | 4.0   | 0.8   |
| 100°   | 98.2  | 74.3  | 51.1  | 30.3  | 13.6  | 3.2   | 0.8   |
| 102.5° | 89.4  | 67.1  | 45.5  | 26.4  | 12.0  | 2.4   | 0.8   |
| 105°   | 82.3  | 60.7  | 40.7  | 24.0  | 10.4  | 2.4   | 0.8   |
| 107.5° | 75.1  | 55.1  | 36.7  | 20.8  | 8.8   | 1.6   | 0.8   |
| 110°   | 67.9  | 50.3  | 32.7  | 18.4  | 8.0   | 1.6   | 0.8   |

TEST NUMBER: P1213350

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 62.3 | 45.5 | 29.5 | 16.8 | 6.4  | 1.6  | 0.8  |
| 115°   | 56.7 | 40.7 | 26.4 | 14.4 | 5.6  | 0.8  | 0.8  |
| 117.5° | 51.1 | 36.7 | 23.2 | 12.8 | 4.8  | 0.8  | 0.8  |
| 120°   | 46.3 | 32.7 | 20.8 | 11.2 | 4.0  | 0.8  | 0.8  |
| 122.5° | 41.5 | 29.5 | 18.4 | 9.6  | 3.2  | 0.8  | 0.8  |
| 125°   | 37.5 | 26.4 | 16.0 | 8.0  | 2.4  | 0.8  | 0.8  |
| 127.5° | 33.5 | 23.2 | 14.4 | 7.2  | 2.4  | 0.8  | 0.8  |
| 130°   | 29.5 | 20.8 | 12.0 | 5.6  | 1.6  | 0.8  | 0.8  |
| 132.5° | 26.4 | 17.6 | 10.4 | 4.8  | 1.6  | 0.8  | 0.8  |
| 135°   | 23.2 | 15.2 | 8.8  | 3.2  | 1.6  | 0.8  | 0.8  |
| 137.5° | 20.0 | 12.8 | 7.2  | 2.4  | 0.8  | 0.8  | 0.8  |
| 140°   | 16.8 | 11.2 | 5.6  | 2.4  | 0.8  | 0.8  | 0.8  |
| 142.5° | 14.4 | 8.8  | 4.0  | 1.6  | 0.8  | 0.8  | 0.8  |
| 145°   | 11.2 | 7.2  | 3.2  | 1.6  | 0.8  | 0.8  | 0.8  |
| 147.5° | 8.8  | 5.6  | 2.4  | 1.6  | 0.8  | 0.8  | 0.8  |
| 150°   | 6.4  | 4.0  | 2.4  | 0.8  | 0.8  | 0.8  | 0.8  |
| 152.5° | 4.8  | 3.2  | 1.6  | 0.8  | 0.8  | 0.8  | 0.8  |
| 155°   | 3.2  | 2.4  | 1.6  | 0.8  | 0.8  | 0.8  | 0.8  |
| 157.5° | 2.4  | 1.6  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 160°   | 1.6  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 162.5° | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 165°   | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 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)