

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: CORELITE

Report Number: P934759

Luminaire Tested: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

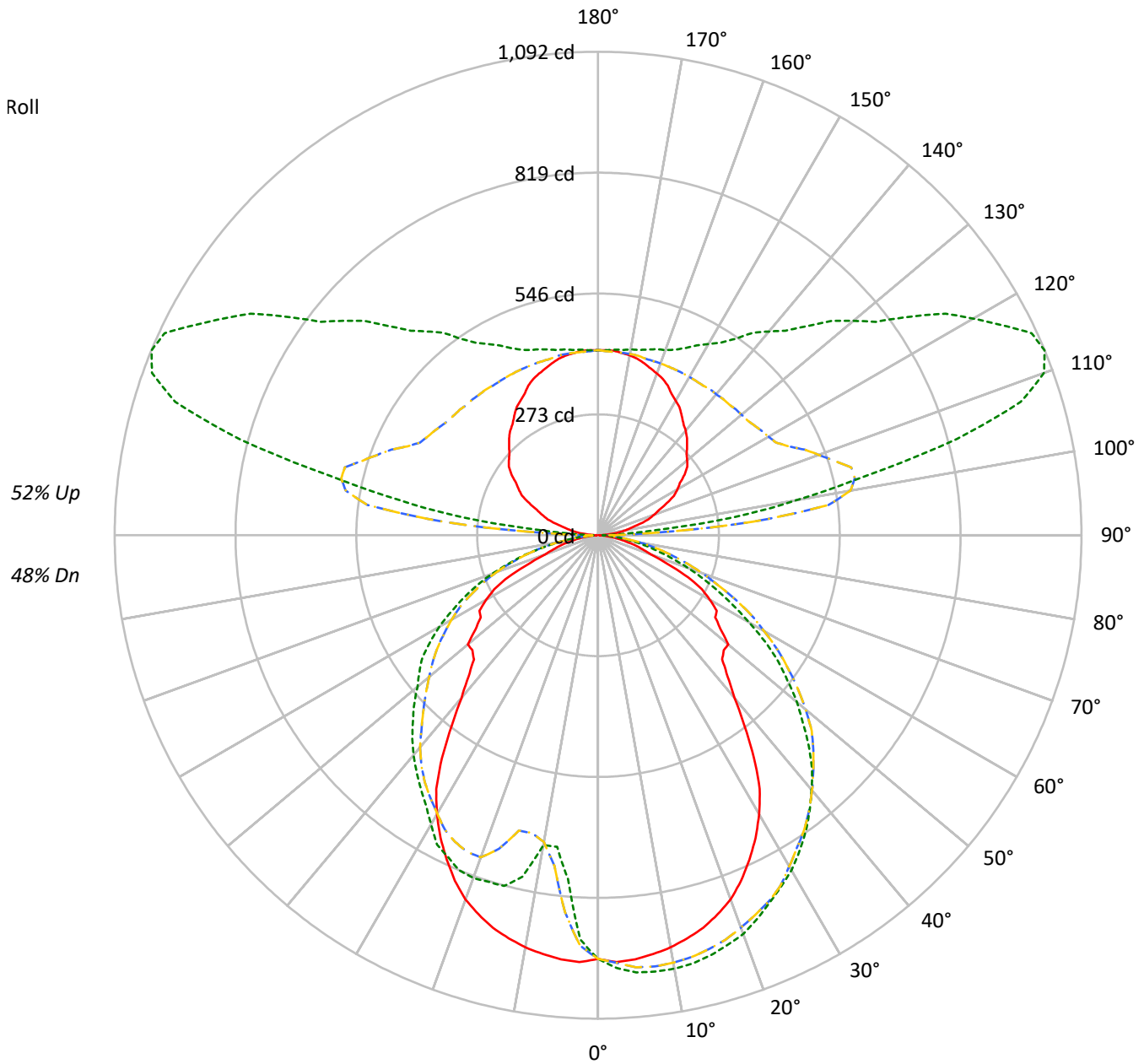
Test Method: LM-79-2019  
Report Number: P934759  
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5192.9 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 42.4  
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: P934759  
CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - 90°-270°    - · - 135°-315°



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**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   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 54 | 54 | 54 | 48 | 48 | 48 |
| 1   | 97  | 93  | 89  | 86  | 89 | 86 | 82 | 79 | 72 | 70 | 68 | 60 | 58 | 56 | 48 | 47 | 46 | 40 | 40 | 40 |
| 2   | 89  | 81  | 75  | 70  | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 50 | 47 | 42 | 40 | 39 | 34 | 34 | 34 |
| 3   | 81  | 71  | 64  | 58  | 74 | 66 | 60 | 54 | 56 | 51 | 47 | 46 | 43 | 40 | 37 | 35 | 33 | 29 | 29 | 29 |
| 4   | 74  | 63  | 55  | 49  | 68 | 58 | 52 | 46 | 49 | 44 | 40 | 41 | 37 | 34 | 33 | 31 | 28 | 25 | 25 | 25 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 44 | 39 | 34 | 37 | 33 | 29 | 30 | 27 | 25 | 21 | 21 | 21 |
| 6   | 62  | 50  | 42  | 37  | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 | 19 | 19 |
| 7   | 58  | 45  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 22 | 19 | 17 | 17 | 17 |
| 8   | 54  | 41  | 33  | 28  | 49 | 38 | 31 | 27 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 20 | 17 | 15 | 15 | 15 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 15 | 13 | 13 | 13 |
| 10  | 46  | 34  | 27  | 22  | 43 | 32 | 26 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 | 12 | 12 | 12 |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 8878 | 8878 | 8878 | 8878 |
| 5°  | 8936 | 8963 | 8936 | 7047 |
| 10° | 8866 | 8829 | 8866 | 6312 |
| 15° | 8759 | 8638 | 8759 | 7213 |
| 20° | 8566 | 8411 | 8566 | 7228 |
| 25° | 8181 | 8080 | 8181 | 7075 |
| 30° | 7687 | 7806 | 7687 | 6738 |
| 35° | 6843 | 7459 | 6843 | 6369 |
| 40° | 5692 | 7051 | 5692 | 6090 |
| 45° | 5078 | 6572 | 5078 | 5769 |
| 50° | 5382 | 6002 | 5382 | 5446 |
| 55° | 5048 | 5387 | 5048 | 5261 |
| 60° | 5185 | 4576 | 5185 | 4818 |
| 65° | 4678 | 3782 | 4678 | 4229 |
| 70° | 3217 | 3013 | 3217 | 3544 |
| 75° | 2791 | 2228 | 2791 | 2668 |
| 80° | 2204 | 1474 | 2204 | 1604 |
| 85° | 1201 | 780  | 1201 | 664  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7796 cd/sqm



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.4   | 1.7       |
| 10°-20°   | 245.2  | 4.7       |
| 20°-30°   | 379.1  | 7.3       |
| 30°-40°   | 452.6  | 8.7       |
| 40°-50°   | 455.2  | 8.8       |
| 50°-60°   | 396.1  | 7.6       |
| 60°-70°   | 280.8  | 5.4       |
| 70°-80°   | 148.6  | 2.9       |
| 80°-90°   | 38.6   | 0.7       |
| 90°-100°  | 203.8  | 3.9       |
| 100°-110° | 535.8  | 10.3      |
| 110°-120° | 555.6  | 10.7      |
| 120°-130° | 445.6  | 8.6       |
| 130°-140° | 349.7  | 6.7       |
| 140°-150° | 268.4  | 5.2       |
| 150°-160° | 193.3  | 3.7       |
| 160°-170° | 118.3  | 2.3       |
| 170°-180° | 40.0   | 0.8       |
| 0°-30°    | 710.7  | 13.7      |
| 0°-40°    | 1163.3 | 22.4      |
| 0°-60°    | 2014.6 | 38.8      |
| 0°-90°    | 2482.6 | 47.8      |
| 90°-120°  | 1295.2 | 24.9      |
| 90°-150°  | 2358.8 | 45.4      |
| 90°-180°  | 2710.0 | 52.2      |
| 0°-180°   | 5192.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90°  | 180° | 270° | 360° | Flux |
|------|-----|------|------|------|------|------|
| 0°   | 957 | 957  | 957  | 957  | 957  |      |
| 5°   | 961 | 991  | 961  | 779  | 961  | 91   |
| 15°  | 918 | 982  | 918  | 820  | 918  | 258  |
| 25°  | 808 | 916  | 808  | 802  | 808  | 371  |
| 35°  | 615 | 818  | 615  | 698  | 615  | 380  |
| 45°  | 397 | 674  | 397  | 591  | 397  | 318  |
| 55°  | 323 | 497  | 323  | 485  | 323  | 297  |
| 65°  | 224 | 300  | 224  | 335  | 224  | 215  |
| 75°  | 85  | 142  | 85   | 170  | 85   | 89   |
| 85°  | 14  | 36   | 14   | 31   | 14   | 20   |
| 90°  | 3   | 11   | 3    | 11   | 3    | 3    |
| 95°  | 27  | 123  | 27   | 123  | 27   | 30   |
| 105° | 96  | 839  | 96   | 839  | 96   | 102  |
| 115° | 171 | 1080 | 171  | 1080 | 171  | 169  |
| 125° | 238 | 860  | 238  | 860  | 238  | 212  |
| 135° | 284 | 668  | 284  | 668  | 284  | 220  |
| 145° | 330 | 542  | 330  | 542  | 330  | 207  |
| 155° | 373 | 466  | 373  | 466  | 373  | 171  |
| 165° | 402 | 434  | 402  | 434  | 402  | 113  |
| 175° | 418 | 421  | 418  | 421  | 418  | 40   |
| 180° | 418 | 418  | 418  | 418  | 418  |      |



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0°     | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8  | 956.8  |
| 2.5°   | 965.0 | 965.0 | 970.5 | 972.3 | 972.3 | 969.6 | 966.9 | 969.6 | 977.8 | 980.5  | 979.6  |
| 5°     | 961.4 | 968.7 | 978.7 | 980.5 | 982.3 | 981.4 | 979.6 | 981.4 | 990.4 | 992.2  | 993.1  |
| 7.5°   | 954.1 | 967.8 | 980.5 | 983.2 | 985.9 | 983.2 | 982.3 | 984.1 | 993.1 | 995.0  | 995.0  |
| 10°    | 945.1 | 964.1 | 978.7 | 980.5 | 983.2 | 980.5 | 980.5 | 984.1 | 993.1 | 995.0  | 995.9  |
| 12.5°  | 932.4 | 958.7 | 972.3 | 974.1 | 977.8 | 976.8 | 975.9 | 979.6 | 988.6 | 990.4  | 990.4  |
| 15°    | 917.9 | 948.7 | 961.4 | 963.2 | 969.6 | 967.8 | 967.8 | 971.4 | 981.4 | 984.1  | 983.2  |
| 17.5°  | 898.0 | 936.0 | 950.5 | 953.2 | 957.8 | 956.8 | 957.8 | 961.4 | 970.5 | 972.3  | 973.2  |
| 20°    | 875.4 | 918.8 | 936.0 | 938.7 | 943.3 | 943.3 | 943.3 | 947.8 | 956.8 | 960.5  | 960.5  |
| 22.5°  | 844.6 | 900.7 | 918.8 | 920.6 | 926.1 | 926.1 | 927.9 | 934.2 | 942.4 | 943.3  | 943.3  |
| 25°    | 808.4 | 880.8 | 896.2 | 901.6 | 907.1 | 909.8 | 912.5 | 916.1 | 918.8 | 917.9  | 918.8  |
| 27.5°  | 770.4 | 855.5 | 875.4 | 879.0 | 886.2 | 889.0 | 892.6 | 893.5 | 894.4 | 897.1  | 895.3  |
| 30°    | 727.8 | 820.2 | 850.0 | 853.7 | 865.4 | 867.2 | 863.6 | 865.4 | 870.0 | 871.8  | 873.6  |
| 32.5°  | 679.9 | 767.7 | 823.8 | 831.9 | 842.8 | 837.4 | 836.5 | 839.2 | 846.4 | 846.4  | 848.2  |
| 35°    | 614.7 | 726.9 | 799.3 | 806.6 | 814.7 | 808.4 | 812.0 | 812.9 | 817.5 | 820.2  | 819.3  |
| 37.5°  | 543.2 | 691.6 | 774.0 | 779.4 | 785.8 | 777.6 | 783.1 | 785.8 | 789.4 | 787.6  | 787.6  |
| 40°    | 479.8 | 636.4 | 744.1 | 747.8 | 753.2 | 746.8 | 752.3 | 754.1 | 755.9 | 754.1  | 753.2  |
| 42.5°  | 432.8 | 575.8 | 712.5 | 717.0 | 713.4 | 717.9 | 719.7 | 723.3 | 720.6 | 717.0  | 717.0  |
| 45°    | 396.6 | 559.5 | 678.1 | 683.5 | 678.1 | 685.3 | 688.0 | 688.0 | 679.9 | 678.1  | 677.2  |
| 47.5°  | 384.8 | 526.9 | 643.7 | 643.7 | 640.9 | 650.0 | 654.5 | 648.2 | 640.0 | 637.3  | 637.3  |
| 50°    | 383.9 | 490.7 | 596.6 | 593.0 | 605.6 | 616.5 | 612.0 | 605.6 | 599.3 | 589.4  | 589.4  |
| 52.5°  | 348.6 | 446.3 | 535.9 | 549.5 | 569.4 | 575.8 | 568.5 | 562.2 | 551.3 | 546.8  | 543.2  |
| 55°    | 323.2 | 400.2 | 480.7 | 507.9 | 528.7 | 536.9 | 523.3 | 516.9 | 500.6 | 497.9  | 496.1  |
| 57.5°  | 317.7 | 333.2 | 430.0 | 464.4 | 489.8 | 488.9 | 480.7 | 469.0 | 455.4 | 452.7  | 451.8  |
| 60°    | 291.5 | 240.8 | 375.7 | 416.5 | 442.7 | 440.0 | 432.8 | 421.9 | 409.2 | 407.4  | 405.6  |
| 62.5°  | 264.3 | 174.7 | 314.1 | 360.3 | 397.5 | 396.6 | 390.2 | 373.9 | 364.9 | 360.3  | 356.7  |
| 65°    | 224.5 | 146.6 | 223.6 | 299.6 | 353.1 | 354.9 | 341.3 | 329.6 | 319.5 | 314.1  | 313.2  |
| 67.5°  | 171.1 | 119.5 | 151.2 | 249.8 | 310.5 | 308.7 | 291.5 | 286.0 | 273.4 | 270.6  | 265.2  |
| 70°    | 126.7 | 79.7  | 105.0 | 202.8 | 268.8 | 264.3 | 250.7 | 244.4 | 232.6 | 226.3  | 222.7  |
| 72.5°  | 105.0 | 64.3  | 76.9  | 157.5 | 226.3 | 220.9 | 209.1 | 201.9 | 191.9 | 186.5  | 182.8  |
| 75°    | 85.1  | 67.9  | 58.8  | 116.8 | 183.7 | 180.1 | 169.3 | 162.0 | 153.9 | 146.6  | 147.5  |
| 77.5°  | 62.5  | 63.4  | 47.1  | 86.0  | 145.7 | 140.3 | 134.0 | 124.9 | 121.3 | 114.1  | 114.1  |
| 80°    | 47.1  | 49.8  | 35.3  | 58.8  | 105.0 | 105.0 | 99.6  | 93.2  | 86.9  | 83.3   | 83.3   |
| 82.5°  | 31.7  | 31.7  | 26.2  | 37.1  | 71.5  | 68.8  | 65.2  | 63.4  | 59.7  | 57.9   | 57.9   |
| 85°    | 14.5  | 18.1  | 16.3  | 22.6  | 38.9  | 40.7  | 40.7  | 38.9  | 38.0  | 36.2   | 37.1   |
| 87.5°  | 4.5   | 8.1   | 10.0  | 12.7  | 19.9  | 20.8  | 21.7  | 21.7  | 21.7  | 22.6   | 22.6   |
| 90°    | 2.8   | 5.1   | 7.3   | 7.9   | 12.4  | 18.4  | 21.4  | 19.0  | 14.2  | 10.7   | 10.7   |
| 92.5°  | 11.2  | 30.3  | 49.3  | 54.1  | 76.1  | 105.5 | 120.1 | 105.3 | 75.6  | 53.3   | 51.2   |
| 95°    | 27.0  | 61.9  | 96.9  | 105.5 | 187.4 | 296.4 | 351.0 | 313.2 | 237.6 | 180.9  | 174.5  |
| 97.5°  | 46.6  | 77.4  | 108.2 | 115.9 | 252.4 | 434.3 | 525.3 | 501.4 | 453.7 | 417.8  | 405.6  |
| 100°   | 61.7  | 89.6  | 117.6 | 124.6 | 276.0 | 477.9 | 578.9 | 580.6 | 584.1 | 586.7  | 572.2  |
| 102.5° | 74.7  | 100.7 | 126.7 | 133.2 | 286.8 | 491.7 | 594.1 | 624.5 | 685.3 | 730.9  | 718.4  |
| 105°   | 96.5  | 118.6 | 140.7 | 146.2 | 294.9 | 493.2 | 592.3 | 660.6 | 797.0 | 899.3  | 892.6  |
| 107.5° | 118.9 | 139.6 | 160.1 | 165.3 | 296.4 | 471.2 | 558.7 | 653.8 | 844.1 | 986.8  | 988.4  |
| 110°   | 134.1 | 152.7 | 171.3 | 176.0 | 294.2 | 451.8 | 530.6 | 637.0 | 849.7 | 1009.3 | 1016.2 |



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 149.0 | 166.7 | 184.4 | 188.8 | 294.3 | 434.8 | 505.1 | 614.0 | 831.7 | 995.0 | 1005.7 |
| 115°   | 171.4 | 187.7 | 204.1 | 208.2 | 297.0 | 415.3 | 474.5 | 579.4 | 789.1 | 946.4 | 961.3  |
| 117.5° | 193.6 | 208.5 | 223.3 | 227.0 | 302.5 | 403.1 | 453.4 | 548.1 | 737.3 | 879.4 | 895.8  |
| 120°   | 206.6 | 220.5 | 234.4 | 238.0 | 306.9 | 399.0 | 445.0 | 531.5 | 704.5 | 834.2 | 850.2  |
| 122.5° | 219.1 | 233.3 | 247.3 | 250.8 | 313.4 | 396.8 | 438.6 | 516.4 | 672.2 | 789.0 | 804.9  |
| 125°   | 238.5 | 251.4 | 264.2 | 267.4 | 322.1 | 395.1 | 431.6 | 497.7 | 630.1 | 729.3 | 743.9  |
| 127.5° | 254.3 | 267.2 | 280.1 | 283.4 | 330.8 | 394.1 | 425.7 | 482.5 | 596.1 | 681.3 | 693.6  |
| 130°   | 262.7 | 276.6 | 290.6 | 294.1 | 337.2 | 394.7 | 423.4 | 474.0 | 575.1 | 651.0 | 662.3  |
| 132.5° | 271.4 | 285.3 | 299.2 | 302.8 | 342.3 | 395.1 | 421.4 | 466.7 | 557.3 | 625.2 | 635.3  |
| 135°   | 284.2 | 296.9 | 309.7 | 312.8 | 347.9 | 394.7 | 418.1 | 456.0 | 531.9 | 588.7 | 597.5  |
| 137.5° | 297.4 | 310.0 | 322.6 | 325.8 | 356.4 | 397.2 | 417.6 | 449.6 | 513.7 | 561.7 | 568.9  |
| 140°   | 308.4 | 320.0 | 331.6 | 334.5 | 361.5 | 397.5 | 415.6 | 443.3 | 498.6 | 540.1 | 546.8  |
| 142.5° | 316.8 | 327.5 | 338.2 | 340.9 | 365.8 | 399.0 | 415.6 | 439.9 | 488.5 | 525.0 | 530.8  |
| 145°   | 329.7 | 339.1 | 348.4 | 350.7 | 371.4 | 399.0 | 412.8 | 432.7 | 472.4 | 502.3 | 506.6  |
| 147.5° | 342.6 | 351.7 | 360.8 | 363.1 | 379.6 | 401.7 | 412.8 | 428.4 | 459.7 | 483.2 | 486.8  |
| 150°   | 351.0 | 359.3 | 367.5 | 369.6 | 384.0 | 403.2 | 412.8 | 426.0 | 452.4 | 472.2 | 475.1  |
| 152.5° | 359.7 | 366.0 | 372.2 | 373.7 | 386.8 | 404.1 | 412.8 | 424.1 | 446.6 | 463.5 | 465.7  |
| 155°   | 372.7 | 377.3 | 381.8 | 383.0 | 392.9 | 406.1 | 412.8 | 421.7 | 439.6 | 453.1 | 454.6  |
| 157.5° | 382.2 | 386.7 | 391.2 | 392.3 | 399.1 | 408.2 | 412.8 | 419.7 | 433.7 | 444.2 | 445.2  |
| 160°   | 388.6 | 392.1 | 395.6 | 396.5 | 401.9 | 409.1 | 412.8 | 418.7 | 430.8 | 439.7 | 440.3  |
| 162.5° | 395.1 | 397.7 | 400.4 | 401.0 | 404.9 | 410.1 | 412.8 | 417.8 | 427.9 | 435.5 | 436.0  |
| 165°   | 402.1 | 404.4 | 406.8 | 407.4 | 409.2 | 411.6 | 412.8 | 416.4 | 423.6 | 429.0 | 429.7  |
| 167.5° | 408.5 | 409.6 | 410.8 | 411.0 | 412.6 | 414.6 | 415.6 | 417.9 | 422.7 | 426.2 | 426.5  |
| 170°   | 412.8 | 413.8 | 415.0 | 415.3 | 415.4 | 415.5 | 415.6 | 417.9 | 422.7 | 426.2 | 426.2  |
| 172.5° | 415.0 | 415.3 | 415.5 | 415.6 | 415.6 | 415.6 | 415.6 | 417.5 | 421.2 | 424.0 | 423.8  |
| 175°   | 418.1 | 418.1 | 418.1 | 418.1 | 417.3 | 416.1 | 415.6 | 416.7 | 419.1 | 420.9 | 420.9  |
| 177.5° | 418.1 | 418.1 | 418.1 | 418.1 | 417.5 | 416.6 | 416.1 | 417.0 | 418.9 | 420.4 | 420.1  |
| 180°   | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1  |



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 0°     | 956.8  | 956.8  | 956.8  | 956.8  | 956.8  | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8  |
| 2.5°   | 981.4  | 978.7  | 981.4  | 979.6  | 980.5  | 977.8 | 969.6 | 966.9 | 969.6 | 972.3 | 972.3  |
| 5°     | 993.1  | 991.3  | 993.1  | 993.1  | 992.2  | 990.4 | 981.4 | 979.6 | 981.4 | 982.3 | 980.5  |
| 7.5°   | 996.8  | 994.0  | 996.8  | 995.0  | 995.0  | 993.1 | 984.1 | 982.3 | 983.2 | 985.9 | 983.2  |
| 10°    | 996.8  | 994.0  | 996.8  | 995.9  | 995.0  | 993.1 | 984.1 | 980.5 | 980.5 | 983.2 | 980.5  |
| 12.5°  | 992.2  | 990.4  | 992.2  | 990.4  | 990.4  | 988.6 | 979.6 | 975.9 | 976.8 | 977.8 | 974.1  |
| 15°    | 985.0  | 982.3  | 985.0  | 983.2  | 984.1  | 981.4 | 971.4 | 967.8 | 967.8 | 969.6 | 963.2  |
| 17.5°  | 974.1  | 970.5  | 974.1  | 973.2  | 972.3  | 970.5 | 961.4 | 957.8 | 956.8 | 957.8 | 953.2  |
| 20°    | 961.4  | 958.7  | 961.4  | 960.5  | 960.5  | 956.8 | 947.8 | 943.3 | 943.3 | 943.3 | 938.7  |
| 22.5°  | 941.5  | 938.7  | 941.5  | 943.3  | 943.3  | 942.4 | 934.2 | 927.9 | 926.1 | 926.1 | 920.6  |
| 25°    | 918.8  | 916.1  | 918.8  | 918.8  | 917.9  | 918.8 | 916.1 | 912.5 | 909.8 | 907.1 | 901.6  |
| 27.5°  | 897.1  | 895.3  | 897.1  | 895.3  | 897.1  | 894.4 | 893.5 | 892.6 | 889.0 | 886.2 | 879.0  |
| 30°    | 875.4  | 873.6  | 875.4  | 873.6  | 871.8  | 870.0 | 865.4 | 863.6 | 867.2 | 865.4 | 853.7  |
| 32.5°  | 848.2  | 846.4  | 848.2  | 848.2  | 846.4  | 846.4 | 839.2 | 836.5 | 837.4 | 842.8 | 831.9  |
| 35°    | 820.2  | 817.5  | 820.2  | 819.3  | 820.2  | 817.5 | 812.9 | 812.0 | 808.4 | 814.7 | 806.6  |
| 37.5°  | 787.6  | 784.9  | 787.6  | 787.6  | 787.6  | 789.4 | 785.8 | 783.1 | 777.6 | 785.8 | 779.4  |
| 40°    | 754.1  | 750.5  | 754.1  | 753.2  | 754.1  | 755.9 | 754.1 | 752.3 | 746.8 | 753.2 | 747.8  |
| 42.5°  | 716.1  | 715.2  | 716.1  | 717.0  | 717.0  | 720.6 | 723.3 | 719.7 | 717.9 | 713.4 | 717.0  |
| 45°    | 675.3  | 673.5  | 675.3  | 677.2  | 678.1  | 679.9 | 688.0 | 688.0 | 685.3 | 678.1 | 683.5  |
| 47.5°  | 631.9  | 627.4  | 631.9  | 637.3  | 637.3  | 640.0 | 648.2 | 654.5 | 650.0 | 640.9 | 643.7  |
| 50°    | 585.7  | 586.6  | 585.7  | 589.4  | 589.4  | 599.3 | 605.6 | 612.0 | 616.5 | 605.6 | 593.0  |
| 52.5°  | 540.5  | 539.6  | 540.5  | 543.2  | 546.8  | 551.3 | 562.2 | 568.5 | 575.8 | 569.4 | 549.5  |
| 55°    | 495.2  | 497.0  | 495.2  | 496.1  | 497.9  | 500.6 | 516.9 | 523.3 | 536.9 | 528.7 | 507.9  |
| 57.5°  | 450.0  | 447.2  | 450.0  | 451.8  | 452.7  | 455.4 | 469.0 | 480.7 | 488.9 | 489.8 | 464.4  |
| 60°    | 397.5  | 393.8  | 397.5  | 405.6  | 407.4  | 409.2 | 421.9 | 432.8 | 440.0 | 442.7 | 416.5  |
| 62.5°  | 351.3  | 345.0  | 351.3  | 356.7  | 360.3  | 364.9 | 373.9 | 390.2 | 396.6 | 397.5 | 360.3  |
| 65°    | 302.3  | 299.6  | 302.3  | 313.2  | 314.1  | 319.5 | 329.6 | 341.3 | 354.9 | 353.1 | 299.6  |
| 67.5°  | 258.0  | 258.0  | 258.0  | 265.2  | 270.6  | 273.4 | 286.0 | 291.5 | 308.7 | 310.5 | 249.8  |
| 70°    | 217.2  | 216.3  | 217.2  | 222.7  | 226.3  | 232.6 | 244.4 | 250.7 | 264.3 | 268.8 | 202.8  |
| 72.5°  | 178.3  | 177.4  | 178.3  | 182.8  | 186.5  | 191.9 | 201.9 | 209.1 | 220.9 | 226.3 | 157.5  |
| 75°    | 143.9  | 142.1  | 143.9  | 147.5  | 146.6  | 153.9 | 162.0 | 169.3 | 180.1 | 183.7 | 116.8  |
| 77.5°  | 110.4  | 110.4  | 110.4  | 114.1  | 114.1  | 121.3 | 124.9 | 134.0 | 140.3 | 145.7 | 86.0   |
| 80°    | 82.4   | 81.5   | 82.4   | 83.3   | 83.3   | 86.9  | 93.2  | 99.6  | 105.0 | 105.0 | 58.8   |
| 82.5°  | 57.9   | 56.1   | 57.9   | 57.9   | 57.9   | 59.7  | 63.4  | 65.2  | 68.8  | 71.5  | 37.1   |
| 85°    | 36.2   | 36.2   | 36.2   | 37.1   | 36.2   | 38.0  | 38.9  | 40.7  | 40.7  | 38.9  | 22.6   |
| 87.5°  | 23.5   | 22.6   | 23.5   | 22.6   | 22.6   | 21.7  | 21.7  | 21.7  | 20.8  | 19.9  | 12.7   |
| 90°    | 10.7   | 10.7   | 10.7   | 10.7   | 10.7   | 14.2  | 19.0  | 21.4  | 18.4  | 12.4  | 7.9    |
| 92.5°  | 42.7   | 34.2   | 42.7   | 51.2   | 53.3   | 75.6  | 105.3 | 120.1 | 105.5 | 76.1  | 54.1   |
| 95°    | 148.9  | 123.2  | 148.9  | 174.5  | 180.9  | 237.6 | 313.2 | 351.0 | 296.4 | 187.4 | 105.5  |
| 97.5°  | 356.7  | 307.8  | 356.7  | 405.6  | 417.8  | 453.7 | 501.4 | 525.3 | 434.3 | 252.4 | 115.9  |
| 100°   | 514.0  | 455.7  | 514.0  | 572.2  | 586.7  | 584.1 | 580.6 | 578.9 | 477.9 | 276.0 | 124.6  |
| 102.5° | 668.6  | 618.7  | 668.6  | 718.4  | 730.9  | 685.3 | 624.5 | 594.1 | 491.7 | 286.8 | 133.2  |
| 105°   | 865.8  | 839.0  | 865.8  | 892.6  | 899.3  | 797.0 | 660.6 | 592.3 | 493.2 | 294.9 | 146.2  |
| 107.5° | 995.0  | 1001.5 | 995.0  | 988.4  | 986.8  | 844.1 | 653.8 | 558.7 | 471.2 | 296.4 | 165.3  |
| 110°   | 1044.2 | 1072.2 | 1044.2 | 1016.2 | 1009.3 | 849.7 | 637.0 | 530.6 | 451.8 | 294.2 | 176.0  |





TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 1048.6 | 1091.5 | 1048.6 | 1005.7 | 995.0  | 831.7 | 614.0 | 505.1 | 434.8 | 294.3 | 188.8  |
| 115°   | 1020.8 | 1080.3 | 1020.8 | 961.3  | 946.4  | 789.1 | 579.4 | 474.5 | 415.3 | 297.0 | 208.2  |
| 117.5° | 961.8  | 1027.8 | 961.8  | 895.8  | 879.4  | 737.3 | 548.1 | 453.4 | 403.1 | 302.5 | 227.0  |
| 120°   | 914.3  | 978.4  | 914.3  | 850.2  | 834.2  | 704.5 | 531.5 | 445.0 | 399.0 | 306.9 | 238.0  |
| 122.5° | 868.0  | 931.3  | 868.0  | 804.9  | 789.0  | 672.2 | 516.4 | 438.6 | 396.8 | 313.4 | 250.8  |
| 125°   | 802.1  | 860.3  | 802.1  | 743.9  | 729.3  | 630.1 | 497.7 | 431.6 | 395.1 | 322.1 | 267.4  |
| 127.5° | 742.7  | 791.8  | 742.7  | 693.6  | 681.3  | 596.1 | 482.5 | 425.7 | 394.1 | 330.8 | 283.4  |
| 130°   | 707.7  | 753.1  | 707.7  | 662.3  | 651.0  | 575.1 | 474.0 | 423.4 | 394.7 | 337.2 | 294.1  |
| 132.5° | 676.0  | 716.6  | 676.0  | 635.3  | 625.2  | 557.3 | 466.7 | 421.4 | 395.1 | 342.3 | 302.8  |
| 135°   | 632.5  | 667.6  | 632.5  | 597.5  | 588.7  | 531.9 | 456.0 | 418.1 | 394.7 | 347.9 | 312.8  |
| 137.5° | 597.6  | 626.3  | 597.6  | 568.9  | 561.7  | 513.7 | 449.6 | 417.6 | 397.2 | 356.4 | 325.8  |
| 140°   | 573.7  | 600.5  | 573.7  | 546.8  | 540.1  | 498.6 | 443.3 | 415.6 | 397.5 | 361.5 | 334.5  |
| 142.5° | 553.8  | 576.9  | 553.8  | 530.8  | 525.0  | 488.5 | 439.9 | 415.6 | 399.0 | 365.8 | 340.9  |
| 145°   | 524.1  | 541.6  | 524.1  | 506.6  | 502.3  | 472.4 | 432.7 | 412.8 | 399.0 | 371.4 | 350.7  |
| 147.5° | 501.3  | 515.8  | 501.3  | 486.8  | 483.2  | 459.7 | 428.4 | 412.8 | 401.7 | 379.6 | 363.1  |
| 150°   | 486.9  | 498.7  | 486.9  | 475.1  | 472.2  | 452.4 | 426.0 | 412.8 | 403.2 | 384.0 | 369.6  |
| 152.5° | 474.6  | 483.4  | 474.6  | 465.7  | 463.5  | 446.6 | 424.1 | 412.8 | 404.1 | 386.8 | 373.7  |
| 155°   | 460.5  | 466.3  | 460.5  | 454.6  | 453.1  | 439.6 | 421.7 | 412.8 | 406.1 | 392.9 | 383.0  |
| 157.5° | 449.3  | 453.4  | 449.3  | 445.2  | 444.2  | 433.7 | 419.7 | 412.8 | 408.2 | 399.1 | 392.3  |
| 160°   | 442.6  | 445.0  | 442.6  | 440.3  | 439.7  | 430.8 | 418.7 | 412.8 | 409.1 | 401.9 | 396.5  |
| 162.5° | 438.3  | 440.5  | 438.3  | 436.0  | 435.5  | 427.9 | 417.8 | 412.8 | 410.1 | 404.9 | 401.0  |
| 165°   | 432.0  | 434.4  | 432.0  | 429.7  | 429.0  | 423.6 | 416.4 | 412.8 | 411.6 | 409.2 | 407.4  |
| 167.5° | 427.5  | 428.5  | 427.5  | 426.5  | 426.2  | 422.7 | 417.9 | 415.6 | 414.6 | 412.6 | 411.0  |
| 170°   | 426.2  | 426.2  | 426.2  | 426.2  | 426.2  | 422.7 | 417.9 | 415.6 | 415.5 | 415.4 | 415.3  |
| 172.5° | 422.9  | 422.0  | 422.9  | 423.8  | 424.0  | 421.2 | 417.5 | 415.6 | 415.6 | 415.6 | 415.6  |
| 175°   | 420.9  | 420.9  | 420.9  | 420.9  | 420.9  | 419.1 | 416.7 | 415.6 | 416.1 | 417.3 | 418.1  |
| 177.5° | 419.1  | 418.1  | 419.1  | 420.1  | 420.4  | 418.9 | 417.0 | 416.1 | 416.6 | 417.5 | 418.1  |
| 180°   | 418.1  | 418.1  | 418.1  | 418.1  | 418.1  | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1  |



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°     | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8  | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 |
| 2.5°   | 970.5 | 965.0 | 965.0 | 955.9 | 952.3 | 949.6  | 945.1 | 931.5 | 927.9 | 924.3 | 929.7 |
| 5°     | 978.7 | 968.7 | 961.4 | 945.1 | 931.5 | 926.1  | 908.9 | 876.3 | 854.6 | 838.3 | 829.2 |
| 7.5°   | 980.5 | 967.8 | 954.1 | 928.8 | 896.2 | 881.7  | 829.2 | 769.5 | 753.2 | 738.7 | 729.7 |
| 10°    | 978.7 | 964.1 | 945.1 | 907.1 | 830.1 | 804.8  | 752.3 | 713.4 | 703.4 | 700.7 | 703.4 |
| 12.5°  | 972.3 | 958.7 | 932.4 | 869.0 | 761.3 | 744.1  | 713.4 | 690.7 | 688.9 | 693.4 | 717.9 |
| 15°    | 961.4 | 948.7 | 917.9 | 818.4 | 723.3 | 710.6  | 688.9 | 680.8 | 690.7 | 722.4 | 795.7 |
| 17.5°  | 950.5 | 936.0 | 898.0 | 768.6 | 694.3 | 685.3  | 669.9 | 686.2 | 742.3 | 784.9 | 809.3 |
| 20°    | 936.0 | 918.8 | 875.4 | 732.4 | 673.5 | 665.4  | 658.1 | 731.5 | 774.0 | 789.4 | 803.0 |
| 22.5°  | 918.8 | 900.7 | 844.6 | 707.0 | 651.8 | 645.5  | 650.0 | 756.8 | 774.0 | 784.9 | 796.6 |
| 25°    | 896.2 | 880.8 | 808.4 | 687.1 | 634.6 | 627.4  | 644.6 | 754.1 | 764.0 | 766.8 | 790.3 |
| 27.5°  | 875.4 | 855.5 | 770.4 | 669.0 | 613.8 | 611.1  | 649.1 | 742.3 | 749.6 | 752.3 | 777.6 |
| 30°    | 850.0 | 820.2 | 727.8 | 650.0 | 592.1 | 591.2  | 650.0 | 727.8 | 726.0 | 733.3 | 758.6 |
| 32.5°  | 823.8 | 767.7 | 679.9 | 626.5 | 571.2 | 570.3  | 643.7 | 706.1 | 704.3 | 714.3 | 733.3 |
| 35°    | 799.3 | 726.9 | 614.7 | 599.3 | 545.0 | 545.9  | 628.3 | 680.8 | 681.7 | 690.7 | 702.5 |
| 37.5°  | 774.0 | 691.6 | 543.2 | 569.4 | 519.7 | 519.7  | 607.5 | 657.2 | 655.4 | 658.1 | 674.4 |
| 40°    | 744.1 | 636.4 | 479.8 | 530.5 | 496.1 | 493.4  | 582.1 | 631.9 | 625.6 | 624.7 | 647.3 |
| 42.5°  | 712.5 | 575.8 | 432.8 | 478.9 | 469.0 | 465.3  | 551.3 | 601.1 | 589.4 | 592.1 | 621.0 |
| 45°    | 678.1 | 559.5 | 396.6 | 404.7 | 440.9 | 438.2  | 517.8 | 565.8 | 557.7 | 564.9 | 594.8 |
| 47.5°  | 643.7 | 526.9 | 384.8 | 335.9 | 411.0 | 410.1  | 480.7 | 531.4 | 526.9 | 534.1 | 565.8 |
| 50°    | 596.6 | 490.7 | 383.9 | 287.8 | 377.5 | 381.2  | 436.4 | 497.9 | 497.9 | 504.3 | 537.8 |
| 52.5°  | 535.9 | 446.3 | 348.6 | 260.7 | 338.6 | 349.5  | 397.5 | 469.0 | 470.8 | 477.1 | 507.0 |
| 55°    | 480.7 | 400.2 | 323.2 | 239.9 | 292.4 | 315.9  | 359.4 | 439.1 | 442.7 | 449.1 | 476.2 |
| 57.5°  | 430.0 | 333.2 | 317.7 | 215.4 | 249.8 | 272.5  | 325.9 | 410.1 | 411.9 | 417.4 | 443.6 |
| 60°    | 375.7 | 240.8 | 291.5 | 189.2 | 212.7 | 229.9  | 295.1 | 375.7 | 382.1 | 385.7 | 408.3 |
| 62.5°  | 314.1 | 174.7 | 264.3 | 171.1 | 194.6 | 198.2  | 269.7 | 343.1 | 351.3 | 354.0 | 367.6 |
| 65°    | 223.6 | 146.6 | 224.5 | 155.7 | 175.6 | 176.5  | 242.6 | 309.6 | 316.8 | 321.3 | 331.4 |
| 67.5°  | 151.2 | 119.5 | 171.1 | 141.2 | 161.1 | 162.0  | 216.3 | 270.6 | 280.6 | 284.2 | 290.6 |
| 70°    | 105.0 | 79.7  | 126.7 | 125.8 | 144.8 | 146.6  | 188.3 | 235.3 | 244.4 | 247.1 | 250.7 |
| 72.5°  | 76.9  | 64.3  | 105.0 | 113.1 | 127.6 | 129.4  | 159.3 | 195.5 | 204.6 | 207.3 | 209.1 |
| 75°    | 58.8  | 67.9  | 85.1  | 98.7  | 108.6 | 109.5  | 130.3 | 159.3 | 165.6 | 167.5 | 168.4 |
| 77.5°  | 47.1  | 63.4  | 62.5  | 79.7  | 88.7  | 86.9   | 102.3 | 123.1 | 128.5 | 128.5 | 128.5 |
| 80°    | 35.3  | 49.8  | 47.1  | 57.0  | 65.2  | 63.4   | 73.3  | 87.8  | 89.6  | 91.4  | 90.5  |
| 82.5°  | 26.2  | 31.7  | 31.7  | 36.2  | 43.4  | 41.6   | 48.9  | 57.0  | 57.0  | 57.0  | 58.8  |
| 85°    | 16.3  | 18.1  | 14.5  | 19.0  | 24.4  | 23.5   | 27.2  | 30.8  | 31.7  | 31.7  | 29.9  |
| 87.5°  | 10.0  | 8.1   | 4.5   | 7.2   | 10.9  | 10.9   | 12.7  | 13.6  | 12.7  | 12.7  | 12.7  |
| 90°    | 7.3   | 5.1   | 2.8   | 5.1   | 7.3   | 7.9    | 12.4  | 18.4  | 21.4  | 19.0  | 14.2  |
| 92.5°  | 49.3  | 30.3  | 11.2  | 30.3  | 49.3  | 54.1   | 76.1  | 105.5 | 120.1 | 105.3 | 75.6  |
| 95°    | 96.9  | 61.9  | 27.0  | 61.9  | 96.9  | 105.5  | 187.4 | 296.4 | 351.0 | 313.2 | 237.6 |
| 97.5°  | 108.2 | 77.4  | 46.6  | 77.4  | 108.2 | 115.9  | 252.4 | 434.3 | 525.3 | 501.4 | 453.7 |
| 100°   | 117.6 | 89.6  | 61.7  | 89.6  | 117.6 | 124.6  | 276.0 | 477.9 | 578.9 | 580.6 | 584.1 |
| 102.5° | 126.7 | 100.7 | 74.7  | 100.7 | 126.7 | 133.2  | 286.8 | 491.7 | 594.1 | 624.5 | 685.3 |
| 105°   | 140.7 | 118.6 | 96.5  | 118.6 | 140.7 | 146.2  | 294.9 | 493.2 | 592.3 | 660.6 | 797.0 |
| 107.5° | 160.1 | 139.6 | 118.9 | 139.6 | 160.1 | 165.3  | 296.4 | 471.2 | 558.7 | 653.8 | 844.1 |
| 110°   | 171.3 | 152.7 | 134.1 | 152.7 | 171.3 | 176.0  | 294.2 | 451.8 | 530.6 | 637.0 | 849.7 |



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 184.4 | 166.7 | 149.0 | 166.7 | 184.4 | 188.8  | 294.3 | 434.8 | 505.1 | 614.0 | 831.7 |
| 115°   | 204.1 | 187.7 | 171.4 | 187.7 | 204.1 | 208.2  | 297.0 | 415.3 | 474.5 | 579.4 | 789.1 |
| 117.5° | 223.3 | 208.5 | 193.6 | 208.5 | 223.3 | 227.0  | 302.5 | 403.1 | 453.4 | 548.1 | 737.3 |
| 120°   | 234.4 | 220.5 | 206.6 | 220.5 | 234.4 | 238.0  | 306.9 | 399.0 | 445.0 | 531.5 | 704.5 |
| 122.5° | 247.3 | 233.3 | 219.1 | 233.3 | 247.3 | 250.8  | 313.4 | 396.8 | 438.6 | 516.4 | 672.2 |
| 125°   | 264.2 | 251.4 | 238.5 | 251.4 | 264.2 | 267.4  | 322.1 | 395.1 | 431.6 | 497.7 | 630.1 |
| 127.5° | 280.1 | 267.2 | 254.3 | 267.2 | 280.1 | 283.4  | 330.8 | 394.1 | 425.7 | 482.5 | 596.1 |
| 130°   | 290.6 | 276.6 | 262.7 | 276.6 | 290.6 | 294.1  | 337.2 | 394.7 | 423.4 | 474.0 | 575.1 |
| 132.5° | 299.2 | 285.3 | 271.4 | 285.3 | 299.2 | 302.8  | 342.3 | 395.1 | 421.4 | 466.7 | 557.3 |
| 135°   | 309.7 | 296.9 | 284.2 | 296.9 | 309.7 | 312.8  | 347.9 | 394.7 | 418.1 | 456.0 | 531.9 |
| 137.5° | 322.6 | 310.0 | 297.4 | 310.0 | 322.6 | 325.8  | 356.4 | 397.2 | 417.6 | 449.6 | 513.7 |
| 140°   | 331.6 | 320.0 | 308.4 | 320.0 | 331.6 | 334.5  | 361.5 | 397.5 | 415.6 | 443.3 | 498.6 |
| 142.5° | 338.2 | 327.5 | 316.8 | 327.5 | 338.2 | 340.9  | 365.8 | 399.0 | 415.6 | 439.9 | 488.5 |
| 145°   | 348.4 | 339.1 | 329.7 | 339.1 | 348.4 | 350.7  | 371.4 | 399.0 | 412.8 | 432.7 | 472.4 |
| 147.5° | 360.8 | 351.7 | 342.6 | 351.7 | 360.8 | 363.1  | 379.6 | 401.7 | 412.8 | 428.4 | 459.7 |
| 150°   | 367.5 | 359.3 | 351.0 | 359.3 | 367.5 | 369.6  | 384.0 | 403.2 | 412.8 | 426.0 | 452.4 |
| 152.5° | 372.2 | 366.0 | 359.7 | 366.0 | 372.2 | 373.7  | 386.8 | 404.1 | 412.8 | 424.1 | 446.6 |
| 155°   | 381.8 | 377.3 | 372.7 | 377.3 | 381.8 | 383.0  | 392.9 | 406.1 | 412.8 | 421.7 | 439.6 |
| 157.5° | 391.2 | 386.7 | 382.2 | 386.7 | 391.2 | 392.3  | 399.1 | 408.2 | 412.8 | 419.7 | 433.7 |
| 160°   | 395.6 | 392.1 | 388.6 | 392.1 | 395.6 | 396.5  | 401.9 | 409.1 | 412.8 | 418.7 | 430.8 |
| 162.5° | 400.4 | 397.7 | 395.1 | 397.7 | 400.4 | 401.0  | 404.9 | 410.1 | 412.8 | 417.8 | 427.9 |
| 165°   | 406.8 | 404.4 | 402.1 | 404.4 | 406.8 | 407.4  | 409.2 | 411.6 | 412.8 | 416.4 | 423.6 |
| 167.5° | 410.8 | 409.6 | 408.5 | 409.6 | 410.8 | 411.0  | 412.6 | 414.6 | 415.6 | 417.9 | 422.7 |
| 170°   | 415.0 | 413.8 | 412.8 | 413.8 | 415.0 | 415.3  | 415.4 | 415.5 | 415.6 | 417.9 | 422.7 |
| 172.5° | 415.5 | 415.3 | 415.0 | 415.3 | 415.5 | 415.6  | 415.6 | 415.6 | 415.6 | 417.5 | 421.2 |
| 175°   | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1  | 417.3 | 416.1 | 415.6 | 416.7 | 419.1 |
| 177.5° | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1  | 417.5 | 416.6 | 416.1 | 417.0 | 418.9 |
| 180°   | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1  | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 |



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°     | 956.8  | 956.8  | 956.8  | 956.8  | 956.8  | 956.8  | 956.8  | 956.8 | 956.8 | 956.8 | 956.8 |
| 2.5°   | 923.4  | 920.6  | 924.3  | 914.3  | 924.3  | 920.6  | 923.4  | 929.7 | 924.3 | 927.9 | 931.5 |
| 5°     | 810.2  | 805.7  | 791.2  | 779.4  | 791.2  | 805.7  | 810.2  | 829.2 | 838.3 | 854.6 | 876.3 |
| 7.5°   | 724.2  | 720.6  | 717.0  | 709.7  | 717.0  | 720.6  | 724.2  | 729.7 | 738.7 | 753.2 | 769.5 |
| 10°    | 705.2  | 706.1  | 711.5  | 710.6  | 711.5  | 706.1  | 705.2  | 703.4 | 700.7 | 703.4 | 713.4 |
| 12.5°  | 754.1  | 762.2  | 792.1  | 790.3  | 792.1  | 762.2  | 754.1  | 717.9 | 693.4 | 688.9 | 690.7 |
| 15°    | 810.2  | 812.9  | 819.3  | 820.2  | 819.3  | 812.9  | 810.2  | 795.7 | 722.4 | 690.7 | 680.8 |
| 17.5°  | 815.6  | 816.5  | 821.1  | 821.1  | 821.1  | 816.5  | 815.6  | 809.3 | 784.9 | 742.3 | 686.2 |
| 20°    | 811.1  | 812.9  | 822.0  | 823.8  | 822.0  | 812.9  | 811.1  | 803.0 | 789.4 | 774.0 | 731.5 |
| 22.5°  | 809.3  | 812.9  | 820.2  | 819.3  | 820.2  | 812.9  | 809.3  | 796.6 | 784.9 | 774.0 | 756.8 |
| 25°    | 800.3  | 800.3  | 801.2  | 802.1  | 801.2  | 800.3  | 800.3  | 790.3 | 766.8 | 764.0 | 754.1 |
| 27.5°  | 781.2  | 783.1  | 788.5  | 787.6  | 788.5  | 783.1  | 781.2  | 777.6 | 752.3 | 749.6 | 742.3 |
| 30°    | 764.0  | 762.2  | 757.7  | 754.1  | 757.7  | 762.2  | 764.0  | 758.6 | 733.3 | 726.0 | 727.8 |
| 32.5°  | 735.1  | 730.6  | 726.0  | 723.3  | 726.0  | 730.6  | 735.1  | 733.3 | 714.3 | 704.3 | 706.1 |
| 35°    | 700.7  | 701.6  | 700.7  | 698.0  | 700.7  | 701.6  | 700.7  | 702.5 | 690.7 | 681.7 | 680.8 |
| 37.5°  | 676.2  | 678.1  | 677.2  | 673.5  | 677.2  | 678.1  | 676.2  | 674.4 | 658.1 | 655.4 | 657.2 |
| 40°    | 650.9  | 651.8  | 650.9  | 648.2  | 650.9  | 651.8  | 650.9  | 647.3 | 624.7 | 625.6 | 631.9 |
| 42.5°  | 626.5  | 625.6  | 622.8  | 621.0  | 622.8  | 625.6  | 626.5  | 621.0 | 592.1 | 589.4 | 601.1 |
| 45°    | 598.4  | 599.3  | 593.9  | 591.2  | 593.9  | 599.3  | 598.4  | 594.8 | 564.9 | 557.7 | 565.8 |
| 47.5°  | 570.3  | 570.3  | 565.8  | 563.1  | 565.8  | 570.3  | 570.3  | 565.8 | 534.1 | 526.9 | 531.4 |
| 50°    | 540.5  | 539.6  | 533.2  | 532.3  | 533.2  | 539.6  | 540.5  | 537.8 | 504.3 | 497.9 | 497.9 |
| 52.5°  | 506.1  | 506.1  | 507.0  | 508.8  | 507.0  | 506.1  | 506.1  | 507.0 | 477.1 | 470.8 | 469.0 |
| 55°    | 476.2  | 477.1  | 483.4  | 485.3  | 483.4  | 477.1  | 476.2  | 476.2 | 449.1 | 442.7 | 439.1 |
| 57.5°  | 445.4  | 445.4  | 450.0  | 450.0  | 450.0  | 445.4  | 445.4  | 443.6 | 417.4 | 411.9 | 410.1 |
| 60°    | 410.1  | 411.9  | 415.6  | 414.7  | 415.6  | 411.9  | 410.1  | 408.3 | 385.7 | 382.1 | 375.7 |
| 62.5°  | 373.0  | 374.8  | 375.7  | 373.9  | 375.7  | 374.8  | 373.0  | 367.6 | 354.0 | 351.3 | 343.1 |
| 65°    | 334.1  | 335.9  | 336.8  | 335.0  | 336.8  | 335.9  | 334.1  | 331.4 | 321.3 | 316.8 | 309.6 |
| 67.5°  | 294.2  | 293.3  | 292.4  | 296.0  | 292.4  | 293.3  | 294.2  | 290.6 | 284.2 | 280.6 | 270.6 |
| 70°    | 253.4  | 253.4  | 252.5  | 254.4  | 252.5  | 253.4  | 253.4  | 250.7 | 247.1 | 244.4 | 235.3 |
| 72.5°  | 210.0  | 209.1  | 212.7  | 210.0  | 212.7  | 209.1  | 210.0  | 209.1 | 207.3 | 204.6 | 195.5 |
| 75°    | 167.5  | 169.3  | 167.5  | 170.2  | 167.5  | 169.3  | 167.5  | 168.4 | 167.5 | 165.6 | 159.3 |
| 77.5°  | 127.6  | 129.4  | 127.6  | 127.6  | 127.6  | 129.4  | 127.6  | 128.5 | 128.5 | 128.5 | 123.1 |
| 80°    | 90.5   | 89.6   | 89.6   | 88.7   | 89.6   | 89.6   | 90.5   | 90.5  | 91.4  | 89.6  | 87.8  |
| 82.5°  | 57.9   | 57.0   | 57.0   | 58.8   | 57.0   | 57.0   | 57.9   | 58.8  | 57.0  | 57.0  | 57.0  |
| 85°    | 31.7   | 32.6   | 30.8   | 30.8   | 30.8   | 32.6   | 31.7   | 29.9  | 31.7  | 31.7  | 30.8  |
| 87.5°  | 11.8   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 11.8   | 12.7  | 12.7  | 12.7  | 13.6  |
| 90°    | 10.7   | 10.7   | 10.7   | 10.7   | 10.7   | 10.7   | 10.7   | 14.2  | 19.0  | 21.4  | 18.4  |
| 92.5°  | 53.3   | 51.2   | 42.7   | 34.2   | 42.7   | 51.2   | 53.3   | 75.6  | 105.3 | 120.1 | 105.5 |
| 95°    | 180.9  | 174.5  | 148.9  | 123.2  | 148.9  | 174.5  | 180.9  | 237.6 | 313.2 | 351.0 | 296.4 |
| 97.5°  | 417.8  | 405.6  | 356.7  | 307.8  | 356.7  | 405.6  | 417.8  | 453.7 | 501.4 | 525.3 | 434.3 |
| 100°   | 586.7  | 572.2  | 514.0  | 455.7  | 514.0  | 572.2  | 586.7  | 584.1 | 580.6 | 578.9 | 477.9 |
| 102.5° | 730.9  | 718.4  | 668.6  | 618.7  | 668.6  | 718.4  | 730.9  | 685.3 | 624.5 | 594.1 | 491.7 |
| 105°   | 899.3  | 892.6  | 865.8  | 839.0  | 865.8  | 892.6  | 899.3  | 797.0 | 660.6 | 592.3 | 493.2 |
| 107.5° | 986.8  | 988.4  | 995.0  | 1001.5 | 995.0  | 988.4  | 986.8  | 844.1 | 653.8 | 558.7 | 471.2 |
| 110°   | 1009.3 | 1016.2 | 1044.2 | 1072.2 | 1044.2 | 1016.2 | 1009.3 | 849.7 | 637.0 | 530.6 | 451.8 |



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 112.5° | 995.0  | 1005.7 | 1048.6 | 1091.5 | 1048.6 | 1005.7 | 995.0  | 831.7 | 614.0 | 505.1 | 434.8 |
| 115°   | 946.4  | 961.3  | 1020.8 | 1080.3 | 1020.8 | 961.3  | 946.4  | 789.1 | 579.4 | 474.5 | 415.3 |
| 117.5° | 879.4  | 895.8  | 961.8  | 1027.8 | 961.8  | 895.8  | 879.4  | 737.3 | 548.1 | 453.4 | 403.1 |
| 120°   | 834.2  | 850.2  | 914.3  | 978.4  | 914.3  | 850.2  | 834.2  | 704.5 | 531.5 | 445.0 | 399.0 |
| 122.5° | 789.0  | 804.9  | 868.0  | 931.3  | 868.0  | 804.9  | 789.0  | 672.2 | 516.4 | 438.6 | 396.8 |
| 125°   | 729.3  | 743.9  | 802.1  | 860.3  | 802.1  | 743.9  | 729.3  | 630.1 | 497.7 | 431.6 | 395.1 |
| 127.5° | 681.3  | 693.6  | 742.7  | 791.8  | 742.7  | 693.6  | 681.3  | 596.1 | 482.5 | 425.7 | 394.1 |
| 130°   | 651.0  | 662.3  | 707.7  | 753.1  | 707.7  | 662.3  | 651.0  | 575.1 | 474.0 | 423.4 | 394.7 |
| 132.5° | 625.2  | 635.3  | 676.0  | 716.6  | 676.0  | 635.3  | 625.2  | 557.3 | 466.7 | 421.4 | 395.1 |
| 135°   | 588.7  | 597.5  | 632.5  | 667.6  | 632.5  | 597.5  | 588.7  | 531.9 | 456.0 | 418.1 | 394.7 |
| 137.5° | 561.7  | 568.9  | 597.6  | 626.3  | 597.6  | 568.9  | 561.7  | 513.7 | 449.6 | 417.6 | 397.2 |
| 140°   | 540.1  | 546.8  | 573.7  | 600.5  | 573.7  | 546.8  | 540.1  | 498.6 | 443.3 | 415.6 | 397.5 |
| 142.5° | 525.0  | 530.8  | 553.8  | 576.9  | 553.8  | 530.8  | 525.0  | 488.5 | 439.9 | 415.6 | 399.0 |
| 145°   | 502.3  | 506.6  | 524.1  | 541.6  | 524.1  | 506.6  | 502.3  | 472.4 | 432.7 | 412.8 | 399.0 |
| 147.5° | 483.2  | 486.8  | 501.3  | 515.8  | 501.3  | 486.8  | 483.2  | 459.7 | 428.4 | 412.8 | 401.7 |
| 150°   | 472.2  | 475.1  | 486.9  | 498.7  | 486.9  | 475.1  | 472.2  | 452.4 | 426.0 | 412.8 | 403.2 |
| 152.5° | 463.5  | 465.7  | 474.6  | 483.4  | 474.6  | 465.7  | 463.5  | 446.6 | 424.1 | 412.8 | 404.1 |
| 155°   | 453.1  | 454.6  | 460.5  | 466.3  | 460.5  | 454.6  | 453.1  | 439.6 | 421.7 | 412.8 | 406.1 |
| 157.5° | 444.2  | 445.2  | 449.3  | 453.4  | 449.3  | 445.2  | 444.2  | 433.7 | 419.7 | 412.8 | 408.2 |
| 160°   | 439.7  | 440.3  | 442.6  | 445.0  | 442.6  | 440.3  | 439.7  | 430.8 | 418.7 | 412.8 | 409.1 |
| 162.5° | 435.5  | 436.0  | 438.3  | 440.5  | 438.3  | 436.0  | 435.5  | 427.9 | 417.8 | 412.8 | 410.1 |
| 165°   | 429.0  | 429.7  | 432.0  | 434.4  | 432.0  | 429.7  | 429.0  | 423.6 | 416.4 | 412.8 | 411.6 |
| 167.5° | 426.2  | 426.5  | 427.5  | 428.5  | 427.5  | 426.5  | 426.2  | 422.7 | 417.9 | 415.6 | 414.6 |
| 170°   | 426.2  | 426.2  | 426.2  | 426.2  | 426.2  | 426.2  | 426.2  | 422.7 | 417.9 | 415.6 | 415.5 |
| 172.5° | 424.0  | 423.8  | 422.9  | 422.0  | 422.9  | 423.8  | 424.0  | 421.2 | 417.5 | 415.6 | 415.6 |
| 175°   | 420.9  | 420.9  | 420.9  | 420.9  | 420.9  | 420.9  | 420.9  | 419.1 | 416.7 | 415.6 | 416.1 |
| 177.5° | 420.4  | 420.1  | 419.1  | 418.1  | 419.1  | 420.1  | 420.4  | 418.9 | 417.0 | 416.1 | 416.6 |
| 180°   | 418.1  | 418.1  | 418.1  | 418.1  | 418.1  | 418.1  | 418.1  | 418.1 | 418.1 | 418.1 | 418.1 |



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 0°     | 956.8 | 956.8  | 956.8 | 956.8 | 956.8 |
| 2.5°   | 945.1 | 949.6  | 952.3 | 955.9 | 965.0 |
| 5°     | 908.9 | 926.1  | 931.5 | 945.1 | 961.4 |
| 7.5°   | 829.2 | 881.7  | 896.2 | 928.8 | 954.1 |
| 10°    | 752.3 | 804.8  | 830.1 | 907.1 | 945.1 |
| 12.5°  | 713.4 | 744.1  | 761.3 | 869.0 | 932.4 |
| 15°    | 688.9 | 710.6  | 723.3 | 818.4 | 917.9 |
| 17.5°  | 669.9 | 685.3  | 694.3 | 768.6 | 898.0 |
| 20°    | 658.1 | 665.4  | 673.5 | 732.4 | 875.4 |
| 22.5°  | 650.0 | 645.5  | 651.8 | 707.0 | 844.6 |
| 25°    | 644.6 | 627.4  | 634.6 | 687.1 | 808.4 |
| 27.5°  | 649.1 | 611.1  | 613.8 | 669.0 | 770.4 |
| 30°    | 650.0 | 591.2  | 592.1 | 650.0 | 727.8 |
| 32.5°  | 643.7 | 570.3  | 571.2 | 626.5 | 679.9 |
| 35°    | 628.3 | 545.9  | 545.0 | 599.3 | 614.7 |
| 37.5°  | 607.5 | 519.7  | 519.7 | 569.4 | 543.2 |
| 40°    | 582.1 | 493.4  | 496.1 | 530.5 | 479.8 |
| 42.5°  | 551.3 | 465.3  | 469.0 | 478.9 | 432.8 |
| 45°    | 517.8 | 438.2  | 440.9 | 404.7 | 396.6 |
| 47.5°  | 480.7 | 410.1  | 411.0 | 335.9 | 384.8 |
| 50°    | 436.4 | 381.2  | 377.5 | 287.8 | 383.9 |
| 52.5°  | 397.5 | 349.5  | 338.6 | 260.7 | 348.6 |
| 55°    | 359.4 | 315.9  | 292.4 | 239.9 | 323.2 |
| 57.5°  | 325.9 | 272.5  | 249.8 | 215.4 | 317.7 |
| 60°    | 295.1 | 229.9  | 212.7 | 189.2 | 291.5 |
| 62.5°  | 269.7 | 198.2  | 194.6 | 171.1 | 264.3 |
| 65°    | 242.6 | 176.5  | 175.6 | 155.7 | 224.5 |
| 67.5°  | 216.3 | 162.0  | 161.1 | 141.2 | 171.1 |
| 70°    | 188.3 | 146.6  | 144.8 | 125.8 | 126.7 |
| 72.5°  | 159.3 | 129.4  | 127.6 | 113.1 | 105.0 |
| 75°    | 130.3 | 109.5  | 108.6 | 98.7  | 85.1  |
| 77.5°  | 102.3 | 86.9   | 88.7  | 79.7  | 62.5  |
| 80°    | 73.3  | 63.4   | 65.2  | 57.0  | 47.1  |
| 82.5°  | 48.9  | 41.6   | 43.4  | 36.2  | 31.7  |
| 85°    | 27.2  | 23.5   | 24.4  | 19.0  | 14.5  |
| 87.5°  | 12.7  | 10.9   | 10.9  | 7.2   | 4.5   |
| 90°    | 12.4  | 7.9    | 7.3   | 5.1   | 2.8   |
| 92.5°  | 76.1  | 54.1   | 49.3  | 30.3  | 11.2  |
| 95°    | 187.4 | 105.5  | 96.9  | 61.9  | 27.0  |
| 97.5°  | 252.4 | 115.9  | 108.2 | 77.4  | 46.6  |
| 100°   | 276.0 | 124.6  | 117.6 | 89.6  | 61.7  |
| 102.5° | 286.8 | 133.2  | 126.7 | 100.7 | 74.7  |
| 105°   | 294.9 | 146.2  | 140.7 | 118.6 | 96.5  |
| 107.5° | 296.4 | 165.3  | 160.1 | 139.6 | 118.9 |
| 110°   | 294.2 | 176.0  | 171.3 | 152.7 | 134.1 |



TEST NUMBER: P934759

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 294.3 | 188.8  | 184.4 | 166.7 | 149.0 |
| 115°   | 297.0 | 208.2  | 204.1 | 187.7 | 171.4 |
| 117.5° | 302.5 | 227.0  | 223.3 | 208.5 | 193.6 |
| 120°   | 306.9 | 238.0  | 234.4 | 220.5 | 206.6 |
| 122.5° | 313.4 | 250.8  | 247.3 | 233.3 | 219.1 |
| 125°   | 322.1 | 267.4  | 264.2 | 251.4 | 238.5 |
| 127.5° | 330.8 | 283.4  | 280.1 | 267.2 | 254.3 |
| 130°   | 337.2 | 294.1  | 290.6 | 276.6 | 262.7 |
| 132.5° | 342.3 | 302.8  | 299.2 | 285.3 | 271.4 |
| 135°   | 347.9 | 312.8  | 309.7 | 296.9 | 284.2 |
| 137.5° | 356.4 | 325.8  | 322.6 | 310.0 | 297.4 |
| 140°   | 361.5 | 334.5  | 331.6 | 320.0 | 308.4 |
| 142.5° | 365.8 | 340.9  | 338.2 | 327.5 | 316.8 |
| 145°   | 371.4 | 350.7  | 348.4 | 339.1 | 329.7 |
| 147.5° | 379.6 | 363.1  | 360.8 | 351.7 | 342.6 |
| 150°   | 384.0 | 369.6  | 367.5 | 359.3 | 351.0 |
| 152.5° | 386.8 | 373.7  | 372.2 | 366.0 | 359.7 |
| 155°   | 392.9 | 383.0  | 381.8 | 377.3 | 372.7 |
| 157.5° | 399.1 | 392.3  | 391.2 | 386.7 | 382.2 |
| 160°   | 401.9 | 396.5  | 395.6 | 392.1 | 388.6 |
| 162.5° | 404.9 | 401.0  | 400.4 | 397.7 | 395.1 |
| 165°   | 409.2 | 407.4  | 406.8 | 404.4 | 402.1 |
| 167.5° | 412.6 | 411.0  | 410.8 | 409.6 | 408.5 |
| 170°   | 415.4 | 415.3  | 415.0 | 413.8 | 412.8 |
| 172.5° | 415.6 | 415.6  | 415.5 | 415.3 | 415.0 |
| 175°   | 417.3 | 418.1  | 418.1 | 418.1 | 418.1 |
| 177.5° | 417.5 | 418.1  | 418.1 | 418.1 | 418.1 |
| 180°   | 418.1 | 418.1  | 418.1 | 418.1 | 418.1 |



TEST NUMBER: P934759  
 CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-4000K

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 12.17            | 13.02 | 13.15 | 14.00 | 15.31 | 14.97          | 15.81 | 15.95 | 16.80 | 18.11 |
|                 | 3H   | 12.65            | 13.40 | 13.64 | 14.40 | 15.73 | 16.31          | 17.06 | 17.29 | 18.06 | 19.38 |
|                 | 4H   | 12.84            | 13.55 | 13.84 | 14.56 | 15.89 | 16.74          | 17.46 | 17.74 | 18.46 | 19.79 |
|                 | 6H   | 12.96            | 13.62 | 13.97 | 14.62 | 15.97 | 17.02          | 17.68 | 18.03 | 18.68 | 20.03 |
|                 | 8H   | 12.96            | 13.58 | 13.98 | 14.61 | 15.95 | 17.09          | 17.71 | 18.10 | 18.74 | 20.08 |
|                 | 12H  | 12.93            | 13.52 | 13.95 | 14.54 | 15.91 | 17.12          | 17.72 | 18.14 | 18.73 | 20.10 |
| 4H              | 2H   | 13.20            | 13.91 | 14.20 | 14.91 | 16.24 | 15.38          | 16.09 | 16.39 | 17.10 | 18.43 |
|                 | 3H   | 14.22            | 14.82 | 15.24 | 15.85 | 17.19 | 16.87          | 17.47 | 17.89 | 18.50 | 19.85 |
|                 | 4H   | 14.50            | 15.04 | 15.52 | 16.06 | 17.43 | 17.39          | 17.94 | 18.42 | 18.96 | 20.33 |
|                 | 6H   | 14.62            | 15.09 | 15.65 | 16.14 | 17.50 | 17.75          | 18.22 | 18.78 | 19.27 | 20.63 |
|                 | 8H   | 14.63            | 15.06 | 15.66 | 16.10 | 17.48 | 17.85          | 18.29 | 18.89 | 19.33 | 20.71 |
|                 | 12H  | 14.59            | 14.99 | 15.65 | 16.04 | 17.43 | 17.90          | 18.30 | 18.96 | 19.35 | 20.74 |
| 8H              | 4H   | 14.94            | 15.38 | 15.98 | 16.42 | 17.80 | 17.52          | 17.96 | 18.55 | 18.99 | 20.38 |
|                 | 6H   | 15.20            | 15.57 | 16.26 | 16.65 | 18.02 | 17.95          | 18.31 | 19.00 | 19.39 | 20.77 |
|                 | 8H   | 15.25            | 15.56 | 16.31 | 16.63 | 18.03 | 18.09          | 18.41 | 19.16 | 19.48 | 20.87 |
|                 | 12H  | 15.23            | 15.51 | 16.30 | 16.57 | 18.01 | 18.18          | 18.46 | 19.25 | 19.52 | 20.96 |
| 12H             | 4H   | 14.95            | 15.34 | 16.00 | 16.40 | 17.78 | 17.48          | 17.88 | 18.54 | 18.93 | 20.32 |
|                 | 6H   | 15.26            | 15.58 | 16.33 | 16.65 | 18.04 | 17.94          | 18.26 | 19.01 | 19.33 | 20.72 |
|                 | 8H   | 15.33            | 15.61 | 16.40 | 16.67 | 18.11 | 18.10          | 18.38 | 19.17 | 19.44 | 20.88 |