

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: P934350

Luminaire Tested: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

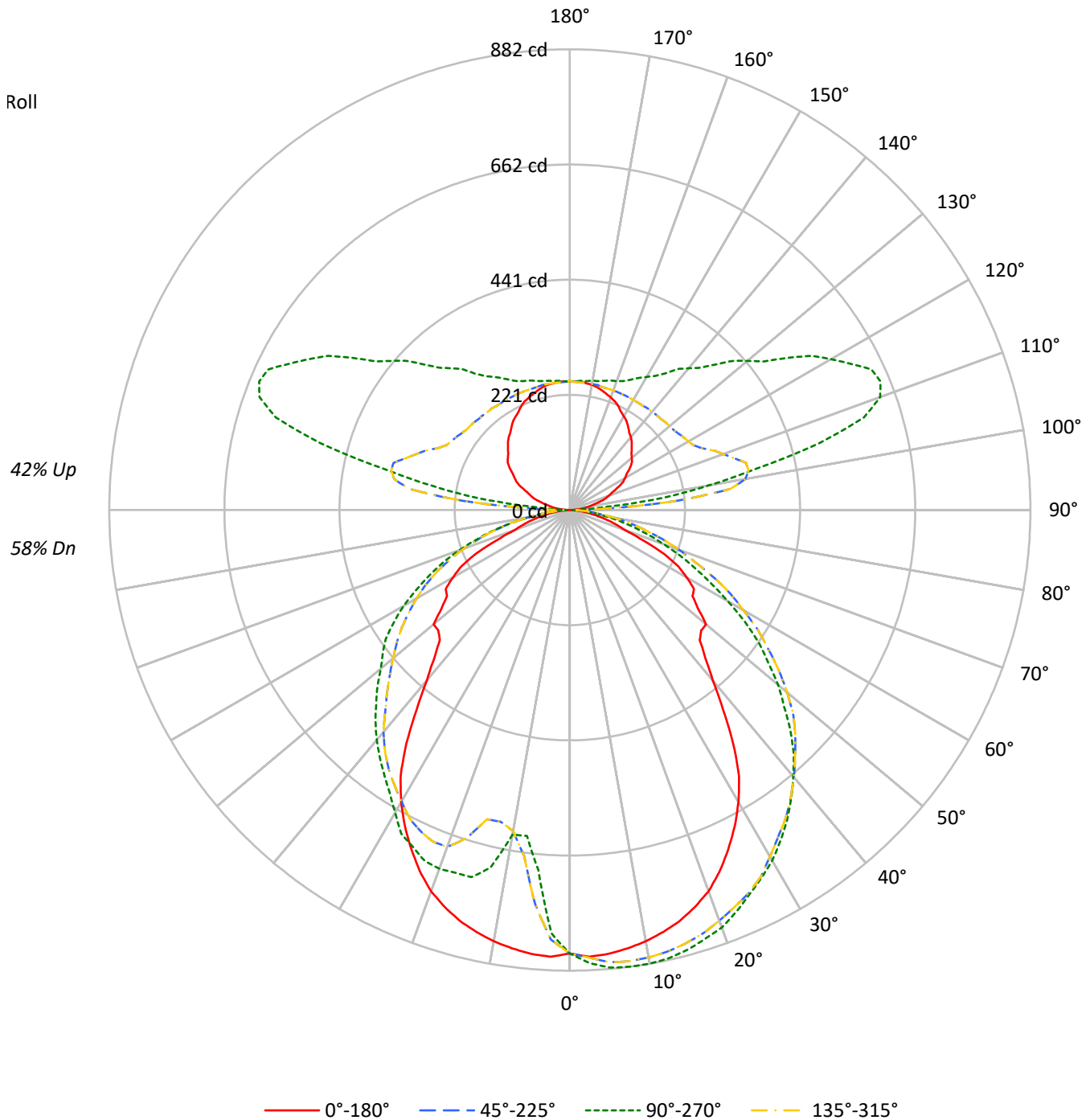
Test Method: LM-79-2019  
Report Number: P934350  
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3800.6 lumens  
Efficiency: N/A  
Efficacy: 104.4 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): 36.4  
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: P934350  
CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P934350

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 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 | 0  |    |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 75 | 75 | 75 | 63 | 63 | 63 | 58 |    |    |    | 58 |
| 1   | 100 | 95  | 91  | 88  | 93  | 89  | 86  | 83  | 77 | 75 | 72 | 66 | 64 | 63 | 56 | 55 | 54 | 49 |    |    |    | 49 |
| 2   | 91  | 83  | 77  | 72  | 84  | 78  | 72  | 68  | 68 | 63 | 60 | 58 | 55 | 52 | 49 | 47 | 45 | 41 |    |    |    | 41 |
| 3   | 83  | 73  | 66  | 60  | 77  | 68  | 62  | 57  | 60 | 55 | 50 | 51 | 48 | 44 | 44 | 41 | 39 | 35 |    |    |    | 35 |
| 4   | 76  | 65  | 57  | 51  | 70  | 61  | 54  | 48  | 53 | 47 | 43 | 46 | 41 | 38 | 39 | 36 | 33 | 30 |    |    |    | 30 |
| 5   | 70  | 58  | 49  | 43  | 65  | 54  | 47  | 41  | 47 | 42 | 37 | 41 | 37 | 33 | 35 | 32 | 29 | 26 |    |    |    | 26 |
| 6   | 64  | 52  | 44  | 38  | 60  | 49  | 41  | 36  | 43 | 37 | 32 | 37 | 32 | 29 | 32 | 28 | 25 | 23 |    |    |    | 23 |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 31  | 39 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 23 | 20 |    |    |    | 20 |
| 8   | 55  | 42  | 35  | 29  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 20 | 18 |    |    |    | 18 |
| 9   | 51  | 39  | 31  | 26  | 48  | 37  | 30  | 25  | 32 | 27 | 23 | 28 | 24 | 20 | 25 | 21 | 18 | 16 |    |    |    | 16 |
| 10  | 48  | 36  | 28  | 23  | 45  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 22 | 18 | 23 | 19 | 17 | 15 |    |    |    | 15 |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 7877 | 7877 | 7877 | 7877 |
| 5°  | 7927 | 7951 | 7927 | 6252 |
| 10° | 7865 | 7833 | 7865 | 5599 |
| 15° | 7771 | 7663 | 7771 | 6399 |
| 20° | 7600 | 7462 | 7600 | 6412 |
| 25° | 7258 | 7168 | 7258 | 6276 |
| 30° | 6820 | 6925 | 6820 | 5978 |
| 35° | 6071 | 6617 | 6071 | 5650 |
| 40° | 5051 | 6255 | 5051 | 5402 |
| 45° | 4504 | 5830 | 4504 | 5117 |
| 50° | 4775 | 5324 | 4775 | 4831 |
| 55° | 4480 | 4779 | 4480 | 4666 |
| 60° | 4600 | 4060 | 4600 | 4275 |
| 65° | 4149 | 3355 | 4149 | 3751 |
| 70° | 2853 | 2673 | 2853 | 3143 |
| 75° | 2476 | 1977 | 2476 | 2367 |
| 80° | 1956 | 1307 | 1956 | 1423 |
| 85° | 1060 | 692  | 1060 | 588  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 6915 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.6   | 2.0       |
| 10°-20°   | 217.6  | 5.7       |
| 20°-30°   | 336.3  | 8.8       |
| 30°-40°   | 401.5  | 10.6      |
| 40°-50°   | 403.9  | 10.6      |
| 50°-60°   | 351.4  | 9.2       |
| 60°-70°   | 249.1  | 6.6       |
| 70°-80°   | 131.8  | 3.5       |
| 80°-90°   | 33.8   | 0.9       |
| 90°-100°  | 120.2  | 3.2       |
| 100°-110° | 316.0  | 8.3       |
| 110°-120° | 327.7  | 8.6       |
| 120°-130° | 262.9  | 6.9       |
| 130°-140° | 206.2  | 5.4       |
| 140°-150° | 158.3  | 4.2       |
| 150°-160° | 114.0  | 3.0       |
| 160°-170° | 69.8   | 1.8       |
| 170°-180° | 23.6   | 0.6       |
| 0°-30°    | 630.5  | 16.6      |
| 0°-40°    | 1032.0 | 27.2      |
| 0°-60°    | 1787.3 | 47.0      |
| 0°-90°    | 2201.9 | 57.9      |
| 90°-120°  | 763.9  | 20.1      |
| 90°-150°  | 1391.3 | 36.6      |
| 90°-180°  | 1599.0 | 42.1      |
| 0°-180°   | 3800.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 849 | 849 | 849  | 849  | 849  |      |
| 5°   | 853 | 879 | 853  | 692  | 853  | 81   |
| 15°  | 814 | 871 | 814  | 728  | 814  | 229  |
| 25°  | 717 | 813 | 717  | 712  | 717  | 329  |
| 35°  | 545 | 725 | 545  | 619  | 545  | 337  |
| 45°  | 352 | 598 | 352  | 524  | 352  | 282  |
| 55°  | 287 | 441 | 287  | 430  | 287  | 263  |
| 65°  | 199 | 266 | 199  | 297  | 199  | 190  |
| 75°  | 76  | 126 | 76   | 151  | 76   | 79   |
| 85°  | 13  | 32  | 13   | 27   | 13   | 17   |
| 90°  | 2   | 6   | 2    | 6    | 2    | 2    |
| 95°  | 16  | 73  | 16   | 73   | 16   | 18   |
| 105° | 57  | 495 | 57   | 495  | 57   | 60   |
| 115° | 101 | 637 | 101  | 637  | 101  | 100  |
| 125° | 141 | 507 | 141  | 507  | 141  | 125  |
| 135° | 168 | 394 | 168  | 394  | 168  | 130  |
| 145° | 194 | 319 | 194  | 319  | 194  | 122  |
| 155° | 220 | 275 | 220  | 275  | 220  | 101  |
| 165° | 237 | 256 | 237  | 256  | 237  | 67   |
| 175° | 247 | 248 | 247  | 248  | 247  | 23   |
| 180° | 247 | 247 | 247  | 247  | 247  |      |



TEST NUMBER: P934350  
 CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 |
| 2.5°   | 856.1 | 856.1 | 861.0 | 862.6 | 862.6 | 860.2 | 857.8 | 860.2 | 867.4 | 869.8 | 869.0 |
| 5°     | 852.9 | 859.4 | 868.2 | 869.8 | 871.4 | 870.6 | 869.0 | 870.6 | 878.6 | 880.2 | 881.1 |
| 7.5°   | 846.4 | 858.6 | 869.8 | 872.2 | 874.6 | 872.2 | 871.4 | 873.0 | 881.1 | 882.7 | 882.7 |
| 10°    | 838.4 | 855.3 | 868.2 | 869.8 | 872.2 | 869.8 | 869.8 | 873.0 | 881.1 | 882.7 | 883.5 |
| 12.5°  | 827.2 | 850.5 | 862.6 | 864.2 | 867.4 | 866.6 | 865.8 | 869.0 | 877.0 | 878.6 | 878.6 |
| 15°    | 814.3 | 841.6 | 852.9 | 854.5 | 860.2 | 858.6 | 858.6 | 861.8 | 870.6 | 873.0 | 872.2 |
| 17.5°  | 796.7 | 830.4 | 843.2 | 845.6 | 849.7 | 848.9 | 849.7 | 852.9 | 861.0 | 862.6 | 863.4 |
| 20°    | 776.6 | 815.1 | 830.4 | 832.8 | 836.8 | 836.8 | 836.8 | 840.8 | 848.9 | 852.1 | 852.1 |
| 22.5°  | 749.3 | 799.1 | 815.1 | 816.7 | 821.5 | 821.5 | 823.2 | 828.8 | 836.0 | 836.8 | 836.8 |
| 25°    | 717.2 | 781.4 | 795.1 | 799.9 | 804.7 | 807.1 | 809.5 | 812.7 | 815.1 | 814.3 | 815.1 |
| 27.5°  | 683.4 | 758.9 | 776.6 | 779.8 | 786.2 | 788.6 | 791.8 | 792.6 | 793.4 | 795.9 | 794.2 |
| 30°    | 645.7 | 727.6 | 754.1 | 757.3 | 767.7 | 769.4 | 766.1 | 767.7 | 771.8 | 773.4 | 775.0 |
| 32.5°  | 603.1 | 681.0 | 730.8 | 738.0 | 747.7 | 742.9 | 742.1 | 744.5 | 750.9 | 750.9 | 752.5 |
| 35°    | 545.3 | 644.9 | 709.1 | 715.6 | 722.8 | 717.2 | 720.4 | 721.2 | 725.2 | 727.6 | 726.8 |
| 37.5°  | 481.9 | 613.6 | 686.6 | 691.5 | 697.1 | 689.9 | 694.7 | 697.1 | 700.3 | 698.7 | 698.7 |
| 40°    | 425.7 | 564.6 | 660.1 | 663.4 | 668.2 | 662.6 | 667.4 | 669.0 | 670.6 | 669.0 | 668.2 |
| 42.5°  | 383.9 | 510.8 | 632.0 | 636.1 | 632.8 | 636.9 | 638.5 | 641.7 | 639.3 | 636.1 | 636.1 |
| 45°    | 351.8 | 496.3 | 601.5 | 606.3 | 601.5 | 608.0 | 610.4 | 610.4 | 603.1 | 601.5 | 600.7 |
| 47.5°  | 341.4 | 467.4 | 571.0 | 571.0 | 568.6 | 576.6 | 580.6 | 575.0 | 567.8 | 565.4 | 565.4 |
| 50°    | 340.6 | 435.3 | 529.3 | 526.0 | 537.3 | 546.9 | 542.9 | 537.3 | 531.7 | 522.8 | 522.8 |
| 52.5°  | 309.2 | 396.0 | 475.5 | 487.5 | 505.2 | 510.8 | 504.4 | 498.7 | 489.1 | 485.1 | 481.9 |
| 55°    | 286.8 | 355.0 | 426.5 | 450.6 | 469.0 | 476.3 | 464.2 | 458.6 | 444.1 | 441.7 | 440.1 |
| 57.5°  | 281.9 | 295.6 | 381.5 | 412.0 | 434.5 | 433.7 | 426.5 | 416.0 | 404.0 | 401.6 | 400.8 |
| 60°    | 258.6 | 213.6 | 333.3 | 369.5 | 392.7 | 390.3 | 383.9 | 374.3 | 363.0 | 361.4 | 359.8 |
| 62.5°  | 234.5 | 155.0 | 278.6 | 319.7 | 352.6 | 351.8 | 346.2 | 331.7 | 323.7 | 319.7 | 316.5 |
| 65°    | 199.1 | 130.1 | 198.3 | 265.8 | 313.3 | 314.9 | 302.8 | 292.4 | 283.5 | 278.6 | 277.8 |
| 67.5°  | 151.8 | 106.0 | 134.1 | 221.6 | 275.4 | 273.8 | 258.6 | 253.7 | 242.5 | 240.1 | 235.3 |
| 70°    | 112.4 | 70.7  | 93.1  | 179.9 | 238.5 | 234.5 | 222.4 | 216.8 | 206.4 | 200.8 | 197.5 |
| 72.5°  | 93.1  | 57.0  | 68.3  | 139.7 | 200.8 | 195.9 | 185.5 | 179.1 | 170.2 | 165.4 | 162.2 |
| 75°    | 75.5  | 60.2  | 52.2  | 103.6 | 163.0 | 159.8 | 150.2 | 143.7 | 136.5 | 130.1 | 130.9 |
| 77.5°  | 55.4  | 56.2  | 41.8  | 76.3  | 129.3 | 124.5 | 118.8 | 110.8 | 107.6 | 101.2 | 101.2 |
| 80°    | 41.8  | 44.2  | 31.3  | 52.2  | 93.1  | 93.1  | 88.3  | 82.7  | 77.1  | 73.9  | 73.9  |
| 82.5°  | 28.1  | 28.1  | 23.3  | 32.9  | 63.4  | 61.0  | 57.8  | 56.2  | 53.0  | 51.4  | 51.4  |
| 85°    | 12.8  | 16.1  | 14.5  | 20.1  | 34.5  | 36.1  | 36.1  | 34.5  | 33.7  | 32.1  | 32.9  |
| 87.5°  | 4.0   | 7.2   | 8.8   | 11.2  | 17.7  | 18.5  | 19.3  | 19.3  | 19.3  | 20.1  | 20.1  |
| 90°    | 1.7   | 3.0   | 4.3   | 4.7   | 7.3   | 10.8  | 12.6  | 11.2  | 8.4   | 6.3   | 6.3   |
| 92.5°  | 6.6   | 17.8  | 29.1  | 32.0  | 44.9  | 62.2  | 70.8  | 62.1  | 44.6  | 31.5  | 30.2  |
| 95°    | 15.9  | 36.5  | 57.1  | 62.2  | 110.5 | 174.8 | 207.0 | 184.7 | 140.1 | 106.7 | 102.9 |
| 97.5°  | 27.5  | 45.6  | 63.8  | 68.3  | 148.8 | 256.2 | 309.8 | 295.7 | 267.6 | 246.4 | 239.2 |
| 100°   | 36.4  | 52.8  | 69.4  | 73.5  | 162.8 | 281.9 | 341.4 | 342.5 | 344.6 | 346.1 | 337.5 |
| 102.5° | 44.0  | 59.4  | 74.8  | 78.6  | 169.2 | 290.0 | 350.3 | 368.3 | 404.2 | 431.1 | 423.7 |
| 105°   | 56.9  | 69.9  | 82.9  | 86.2  | 173.9 | 290.9 | 349.4 | 389.6 | 470.1 | 530.5 | 526.5 |
| 107.5° | 70.2  | 82.3  | 94.4  | 97.5  | 174.8 | 278.0 | 329.6 | 385.7 | 497.9 | 582.1 | 583.1 |
| 110°   | 79.1  | 90.0  | 101.0 | 103.7 | 173.5 | 266.5 | 313.0 | 375.7 | 501.2 | 595.3 | 599.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 87.8  | 98.3  | 108.7 | 111.4 | 173.5 | 256.5 | 297.9 | 362.2 | 490.6 | 586.9 | 593.3 |
| 115°   | 101.1 | 110.7 | 120.4 | 122.8 | 175.1 | 244.9 | 279.8 | 341.7 | 465.4 | 558.2 | 567.0 |
| 117.5° | 114.2 | 122.9 | 131.7 | 133.9 | 178.4 | 237.8 | 267.5 | 323.3 | 434.9 | 518.7 | 528.4 |
| 120°   | 121.8 | 130.1 | 138.3 | 140.4 | 181.1 | 235.4 | 262.5 | 313.5 | 415.6 | 492.1 | 501.6 |
| 122.5° | 129.3 | 137.6 | 145.9 | 148.0 | 184.9 | 234.1 | 258.6 | 304.6 | 396.5 | 465.4 | 474.7 |
| 125°   | 140.7 | 148.2 | 155.8 | 157.7 | 190.0 | 233.0 | 254.6 | 293.6 | 371.6 | 430.2 | 438.8 |
| 127.5° | 149.9 | 157.6 | 165.3 | 167.2 | 195.1 | 232.5 | 251.1 | 284.6 | 351.6 | 401.8 | 409.0 |
| 130°   | 154.9 | 163.2 | 171.4 | 173.4 | 198.9 | 232.8 | 249.7 | 279.6 | 339.3 | 384.0 | 390.7 |
| 132.5° | 160.0 | 168.3 | 176.5 | 178.6 | 202.0 | 233.0 | 248.6 | 275.3 | 328.7 | 368.7 | 374.8 |
| 135°   | 167.7 | 175.1 | 182.7 | 184.5 | 205.2 | 232.8 | 246.6 | 268.9 | 313.7 | 347.2 | 352.4 |
| 137.5° | 175.5 | 182.8 | 190.3 | 192.2 | 210.2 | 234.2 | 246.3 | 265.2 | 303.0 | 331.3 | 335.6 |
| 140°   | 181.9 | 188.7 | 195.6 | 197.3 | 213.2 | 234.5 | 245.1 | 261.5 | 294.1 | 318.6 | 322.6 |
| 142.5° | 186.9 | 193.2 | 199.5 | 201.1 | 215.8 | 235.3 | 245.1 | 259.4 | 288.1 | 309.6 | 313.0 |
| 145°   | 194.5 | 199.9 | 205.5 | 206.9 | 219.1 | 235.4 | 243.5 | 255.2 | 278.6 | 296.2 | 298.8 |
| 147.5° | 202.1 | 207.5 | 212.8 | 214.2 | 224.0 | 237.0 | 243.5 | 252.7 | 271.2 | 285.0 | 287.2 |
| 150°   | 207.0 | 211.8 | 216.7 | 217.9 | 226.4 | 237.8 | 243.5 | 251.3 | 266.8 | 278.6 | 280.3 |
| 152.5° | 212.2 | 215.8 | 219.5 | 220.4 | 228.1 | 238.3 | 243.5 | 250.1 | 263.5 | 273.4 | 274.7 |
| 155°   | 219.8 | 222.5 | 225.2 | 225.9 | 231.7 | 239.5 | 243.5 | 248.8 | 259.4 | 267.3 | 268.2 |
| 157.5° | 225.4 | 228.1 | 230.7 | 231.3 | 235.4 | 240.7 | 243.5 | 247.6 | 255.8 | 262.0 | 262.7 |
| 160°   | 229.3 | 231.3 | 233.4 | 233.8 | 237.0 | 241.3 | 243.5 | 247.0 | 254.1 | 259.4 | 259.7 |
| 162.5° | 233.0 | 234.6 | 236.1 | 236.5 | 238.8 | 241.9 | 243.5 | 246.4 | 252.4 | 256.9 | 257.2 |
| 165°   | 237.2 | 238.6 | 240.0 | 240.3 | 241.4 | 242.7 | 243.5 | 245.6 | 249.8 | 253.0 | 253.3 |
| 167.5° | 241.0 | 241.6 | 242.3 | 242.4 | 243.3 | 244.5 | 245.1 | 246.5 | 249.3 | 251.4 | 251.6 |
| 170°   | 243.5 | 244.1 | 244.8 | 244.9 | 245.0 | 245.1 | 245.1 | 246.5 | 249.3 | 251.4 | 251.4 |
| 172.5° | 244.8 | 244.9 | 245.1 | 245.1 | 245.1 | 245.1 | 245.1 | 246.2 | 248.4 | 250.1 | 249.9 |
| 175°   | 246.6 | 246.6 | 246.6 | 246.6 | 246.1 | 245.4 | 245.1 | 245.8 | 247.2 | 248.3 | 248.3 |
| 177.5° | 246.6 | 246.6 | 246.6 | 246.6 | 246.2 | 245.7 | 245.5 | 246.0 | 247.2 | 248.0 | 247.8 |
| 180°   | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   | 100°  | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 0°     | 848.9 | 848.9 | 848.9 | 848.9 | 848.9  | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9  |
| 2.5°   | 870.6 | 868.2 | 870.6 | 869.0 | 869.8  | 867.4 | 860.2 | 857.8 | 860.2 | 862.6 | 862.6  |
| 5°     | 881.1 | 879.4 | 881.1 | 881.1 | 880.2  | 878.6 | 870.6 | 869.0 | 870.6 | 871.4 | 869.8  |
| 7.5°   | 884.3 | 881.9 | 884.3 | 882.7 | 882.7  | 881.1 | 873.0 | 871.4 | 872.2 | 874.6 | 872.2  |
| 10°    | 884.3 | 881.9 | 884.3 | 883.5 | 882.7  | 881.1 | 873.0 | 869.8 | 869.8 | 872.2 | 869.8  |
| 12.5°  | 880.2 | 878.6 | 880.2 | 878.6 | 878.6  | 877.0 | 869.0 | 865.8 | 866.6 | 867.4 | 864.2  |
| 15°    | 873.8 | 871.4 | 873.8 | 872.2 | 873.0  | 870.6 | 861.8 | 858.6 | 858.6 | 860.2 | 854.5  |
| 17.5°  | 864.2 | 861.0 | 864.2 | 863.4 | 862.6  | 861.0 | 852.9 | 849.7 | 848.9 | 849.7 | 845.6  |
| 20°    | 852.9 | 850.5 | 852.9 | 852.1 | 852.1  | 848.9 | 840.8 | 836.8 | 836.8 | 836.8 | 832.8  |
| 22.5°  | 835.2 | 832.8 | 835.2 | 836.8 | 836.8  | 836.0 | 828.8 | 823.2 | 821.5 | 821.5 | 816.7  |
| 25°    | 815.1 | 812.7 | 815.1 | 815.1 | 814.3  | 815.1 | 812.7 | 809.5 | 807.1 | 804.7 | 799.9  |
| 27.5°  | 795.9 | 794.2 | 795.9 | 794.2 | 795.9  | 793.4 | 792.6 | 791.8 | 788.6 | 786.2 | 779.8  |
| 30°    | 776.6 | 775.0 | 776.6 | 775.0 | 773.4  | 771.8 | 767.7 | 766.1 | 769.4 | 767.7 | 757.3  |
| 32.5°  | 752.5 | 750.9 | 752.5 | 752.5 | 750.9  | 750.9 | 744.5 | 742.1 | 742.9 | 747.7 | 738.0  |
| 35°    | 727.6 | 725.2 | 727.6 | 726.8 | 727.6  | 725.2 | 721.2 | 720.4 | 717.2 | 722.8 | 715.6  |
| 37.5°  | 698.7 | 696.3 | 698.7 | 698.7 | 698.7  | 700.3 | 697.1 | 694.7 | 689.9 | 697.1 | 691.5  |
| 40°    | 669.0 | 665.8 | 669.0 | 668.2 | 669.0  | 670.6 | 669.0 | 667.4 | 662.6 | 668.2 | 663.4  |
| 42.5°  | 635.3 | 634.5 | 635.3 | 636.1 | 636.1  | 639.3 | 641.7 | 638.5 | 636.9 | 632.8 | 636.1  |
| 45°    | 599.1 | 597.5 | 599.1 | 600.7 | 601.5  | 603.1 | 610.4 | 610.4 | 608.0 | 601.5 | 606.3  |
| 47.5°  | 560.6 | 556.6 | 560.6 | 565.4 | 565.4  | 567.8 | 575.0 | 580.6 | 576.6 | 568.6 | 571.0  |
| 50°    | 519.6 | 520.4 | 519.6 | 522.8 | 522.8  | 531.7 | 537.3 | 542.9 | 546.9 | 537.3 | 526.0  |
| 52.5°  | 479.5 | 478.7 | 479.5 | 481.9 | 485.1  | 489.1 | 498.7 | 504.4 | 510.8 | 505.2 | 487.5  |
| 55°    | 439.3 | 440.9 | 439.3 | 440.1 | 441.7  | 444.1 | 458.6 | 464.2 | 476.3 | 469.0 | 450.6  |
| 57.5°  | 399.2 | 396.8 | 399.2 | 400.8 | 401.6  | 404.0 | 416.0 | 426.5 | 433.7 | 434.5 | 412.0  |
| 60°    | 352.6 | 349.4 | 352.6 | 359.8 | 361.4  | 363.0 | 374.3 | 383.9 | 390.3 | 392.7 | 369.5  |
| 62.5°  | 311.6 | 306.0 | 311.6 | 316.5 | 319.7  | 323.7 | 331.7 | 346.2 | 351.8 | 352.6 | 319.7  |
| 65°    | 268.2 | 265.8 | 268.2 | 277.8 | 278.6  | 283.5 | 292.4 | 302.8 | 314.9 | 313.3 | 265.8  |
| 67.5°  | 228.9 | 228.9 | 228.9 | 235.3 | 240.1  | 242.5 | 253.7 | 258.6 | 273.8 | 275.4 | 221.6  |
| 70°    | 192.7 | 191.9 | 192.7 | 197.5 | 200.8  | 206.4 | 216.8 | 222.4 | 234.5 | 238.5 | 179.9  |
| 72.5°  | 158.2 | 157.4 | 158.2 | 162.2 | 165.4  | 170.2 | 179.1 | 185.5 | 195.9 | 200.8 | 139.7  |
| 75°    | 127.7 | 126.1 | 127.7 | 130.9 | 130.1  | 136.5 | 143.7 | 150.2 | 159.8 | 163.0 | 103.6  |
| 77.5°  | 98.0  | 98.0  | 98.0  | 101.2 | 101.2  | 107.6 | 110.8 | 118.8 | 124.5 | 129.3 | 76.3   |
| 80°    | 73.1  | 72.3  | 73.1  | 73.9  | 73.9   | 77.1  | 82.7  | 88.3  | 93.1  | 93.1  | 52.2   |
| 82.5°  | 51.4  | 49.8  | 51.4  | 51.4  | 51.4   | 53.0  | 56.2  | 57.8  | 61.0  | 63.4  | 32.9   |
| 85°    | 32.1  | 32.1  | 32.1  | 32.9  | 32.1   | 33.7  | 34.5  | 36.1  | 36.1  | 34.5  | 20.1   |
| 87.5°  | 20.9  | 20.1  | 20.9  | 20.1  | 20.1   | 19.3  | 19.3  | 19.3  | 18.5  | 17.7  | 11.2   |
| 90°    | 6.3   | 6.3   | 6.3   | 6.3   | 6.3    | 8.4   | 11.2  | 12.6  | 10.8  | 7.3   | 4.7    |
| 92.5°  | 25.2  | 20.2  | 25.2  | 30.2  | 31.5   | 44.6  | 62.1  | 70.8  | 62.2  | 44.9  | 32.0   |
| 95°    | 87.8  | 72.7  | 87.8  | 102.9 | 106.7  | 140.1 | 184.7 | 207.0 | 174.8 | 110.5 | 62.2   |
| 97.5°  | 210.4 | 181.6 | 210.4 | 239.2 | 246.4  | 267.6 | 295.7 | 309.8 | 256.2 | 148.8 | 68.3   |
| 100°   | 303.1 | 268.8 | 303.1 | 337.5 | 346.1  | 344.6 | 342.5 | 341.4 | 281.9 | 162.8 | 73.5   |
| 102.5° | 394.4 | 365.0 | 394.4 | 423.7 | 431.1  | 404.2 | 368.3 | 350.3 | 290.0 | 169.2 | 78.6   |
| 105°   | 510.7 | 494.9 | 510.7 | 526.5 | 530.5  | 470.1 | 389.6 | 349.4 | 290.9 | 173.9 | 86.2   |
| 107.5° | 586.8 | 590.7 | 586.8 | 583.1 | 582.1  | 497.9 | 385.7 | 329.6 | 278.0 | 174.8 | 97.5   |
| 110°   | 615.9 | 632.4 | 615.9 | 599.4 | 595.3  | 501.2 | 375.7 | 313.0 | 266.5 | 173.5 | 103.7  |





TEST NUMBER: P934350

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   | 100°  | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 618.6 | 643.8 | 618.6 | 593.3 | 586.9  | 490.6 | 362.2 | 297.9 | 256.5 | 173.5 | 111.4  |
| 115°   | 602.1 | 637.2 | 602.1 | 567.0 | 558.2  | 465.4 | 341.7 | 279.8 | 244.9 | 175.1 | 122.8  |
| 117.5° | 567.3 | 606.3 | 567.3 | 528.4 | 518.7  | 434.9 | 323.3 | 267.5 | 237.8 | 178.4 | 133.9  |
| 120°   | 539.3 | 577.1 | 539.3 | 501.6 | 492.1  | 415.6 | 313.5 | 262.5 | 235.4 | 181.1 | 140.4  |
| 122.5° | 512.1 | 549.3 | 512.1 | 474.7 | 465.4  | 396.5 | 304.6 | 258.6 | 234.1 | 184.9 | 148.0  |
| 125°   | 473.0 | 507.4 | 473.0 | 438.8 | 430.2  | 371.6 | 293.6 | 254.6 | 233.0 | 190.0 | 157.7  |
| 127.5° | 438.0 | 467.0 | 438.0 | 409.0 | 401.8  | 351.6 | 284.6 | 251.1 | 232.5 | 195.1 | 167.2  |
| 130°   | 417.5 | 444.2 | 417.5 | 390.7 | 384.0  | 339.3 | 279.6 | 249.7 | 232.8 | 198.9 | 173.4  |
| 132.5° | 398.7 | 422.7 | 398.7 | 374.8 | 368.7  | 328.7 | 275.3 | 248.6 | 233.0 | 202.0 | 178.6  |
| 135°   | 373.1 | 393.7 | 373.1 | 352.4 | 347.2  | 313.7 | 268.9 | 246.6 | 232.8 | 205.2 | 184.5  |
| 137.5° | 352.4 | 369.4 | 352.4 | 335.6 | 331.3  | 303.0 | 265.2 | 246.3 | 234.2 | 210.2 | 192.2  |
| 140°   | 338.4 | 354.2 | 338.4 | 322.6 | 318.6  | 294.1 | 261.5 | 245.1 | 234.5 | 213.2 | 197.3  |
| 142.5° | 326.7 | 340.3 | 326.7 | 313.0 | 309.6  | 288.1 | 259.4 | 245.1 | 235.3 | 215.8 | 201.1  |
| 145°   | 309.2 | 319.4 | 309.2 | 298.8 | 296.2  | 278.6 | 255.2 | 243.5 | 235.4 | 219.1 | 206.9  |
| 147.5° | 295.7 | 304.2 | 295.7 | 287.2 | 285.0  | 271.2 | 252.7 | 243.5 | 237.0 | 224.0 | 214.2  |
| 150°   | 287.2 | 294.1 | 287.2 | 280.3 | 278.6  | 266.8 | 251.3 | 243.5 | 237.8 | 226.4 | 217.9  |
| 152.5° | 279.9 | 285.1 | 279.9 | 274.7 | 273.4  | 263.5 | 250.1 | 243.5 | 238.3 | 228.1 | 220.4  |
| 155°   | 271.7 | 275.1 | 271.7 | 268.2 | 267.3  | 259.4 | 248.8 | 243.5 | 239.5 | 231.7 | 225.9  |
| 157.5° | 265.1 | 267.5 | 265.1 | 262.7 | 262.0  | 255.8 | 247.6 | 243.5 | 240.7 | 235.4 | 231.3  |
| 160°   | 261.1 | 262.5 | 261.1 | 259.7 | 259.4  | 254.1 | 247.0 | 243.5 | 241.3 | 237.0 | 233.8  |
| 162.5° | 258.6 | 259.9 | 258.6 | 257.2 | 256.9  | 252.4 | 246.4 | 243.5 | 241.9 | 238.8 | 236.5  |
| 165°   | 254.8 | 256.2 | 254.8 | 253.3 | 253.0  | 249.8 | 245.6 | 243.5 | 242.7 | 241.4 | 240.3  |
| 167.5° | 252.1 | 252.7 | 252.1 | 251.6 | 251.4  | 249.3 | 246.5 | 245.1 | 244.5 | 243.3 | 242.4  |
| 170°   | 251.4 | 251.4 | 251.4 | 251.4 | 251.4  | 249.3 | 246.5 | 245.1 | 245.1 | 245.0 | 244.9  |
| 172.5° | 249.4 | 248.9 | 249.4 | 249.9 | 250.1  | 248.4 | 246.2 | 245.1 | 245.1 | 245.1 | 245.1  |
| 175°   | 248.3 | 248.3 | 248.3 | 248.3 | 248.3  | 247.2 | 245.8 | 245.1 | 245.4 | 246.1 | 246.6  |
| 177.5° | 247.2 | 246.6 | 247.2 | 247.8 | 248.0  | 247.2 | 246.0 | 245.5 | 245.7 | 246.2 | 246.6  |
| 180°   | 246.6 | 246.6 | 246.6 | 246.6 | 246.6  | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6  |



TEST NUMBER: P934350  
 CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°     | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9  | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 |
| 2.5°   | 861.0 | 856.1 | 856.1 | 848.0 | 844.8 | 842.4  | 838.4 | 826.4 | 823.2 | 819.9 | 824.8 |
| 5°     | 868.2 | 859.4 | 852.9 | 838.4 | 826.4 | 821.5  | 806.3 | 777.4 | 758.1 | 743.7 | 735.6 |
| 7.5°   | 869.8 | 858.6 | 846.4 | 824.0 | 795.1 | 782.2  | 735.6 | 682.6 | 668.2 | 655.3 | 647.3 |
| 10°    | 868.2 | 855.3 | 838.4 | 804.7 | 736.4 | 713.9  | 667.4 | 632.8 | 624.0 | 621.6 | 624.0 |
| 12.5°  | 862.6 | 850.5 | 827.2 | 771.0 | 675.4 | 660.1  | 632.8 | 612.8 | 611.2 | 615.2 | 636.9 |
| 15°    | 852.9 | 841.6 | 814.3 | 726.0 | 641.7 | 630.4  | 611.2 | 603.9 | 612.8 | 640.9 | 705.9 |
| 17.5°  | 843.2 | 830.4 | 796.7 | 681.8 | 616.0 | 608.0  | 594.3 | 608.8 | 658.5 | 696.3 | 718.0 |
| 20°    | 830.4 | 815.1 | 776.6 | 649.7 | 597.5 | 590.3  | 583.9 | 648.9 | 686.6 | 700.3 | 712.3 |
| 22.5°  | 815.1 | 799.1 | 749.3 | 627.2 | 578.2 | 572.6  | 576.6 | 671.4 | 686.6 | 696.3 | 706.7 |
| 25°    | 795.1 | 781.4 | 717.2 | 609.6 | 563.0 | 556.6  | 571.8 | 669.0 | 677.8 | 680.2 | 701.1 |
| 27.5°  | 776.6 | 758.9 | 683.4 | 593.5 | 544.5 | 542.1  | 575.8 | 658.5 | 665.0 | 667.4 | 689.9 |
| 30°    | 754.1 | 727.6 | 645.7 | 576.6 | 525.2 | 524.4  | 576.6 | 645.7 | 644.1 | 650.5 | 673.0 |
| 32.5°  | 730.8 | 681.0 | 603.1 | 555.8 | 506.8 | 506.0  | 571.0 | 626.4 | 624.8 | 633.6 | 650.5 |
| 35°    | 709.1 | 644.9 | 545.3 | 531.7 | 483.5 | 484.3  | 557.4 | 603.9 | 604.7 | 612.8 | 623.2 |
| 37.5°  | 686.6 | 613.6 | 481.9 | 505.2 | 461.0 | 461.0  | 538.9 | 583.1 | 581.5 | 583.9 | 598.3 |
| 40°    | 660.1 | 564.6 | 425.7 | 470.6 | 440.1 | 437.7  | 516.4 | 560.6 | 555.0 | 554.2 | 574.2 |
| 42.5°  | 632.0 | 510.8 | 383.9 | 424.9 | 416.0 | 412.8  | 489.1 | 533.3 | 522.8 | 525.2 | 550.9 |
| 45°    | 601.5 | 496.3 | 351.8 | 359.0 | 391.1 | 388.7  | 459.4 | 502.0 | 494.7 | 501.2 | 527.7 |
| 47.5°  | 571.0 | 467.4 | 341.4 | 298.0 | 364.6 | 363.8  | 426.5 | 471.4 | 467.4 | 473.9 | 502.0 |
| 50°    | 529.3 | 435.3 | 340.6 | 255.4 | 334.9 | 338.1  | 387.1 | 441.7 | 441.7 | 447.4 | 477.1 |
| 52.5°  | 475.5 | 396.0 | 309.2 | 231.3 | 300.4 | 310.0  | 352.6 | 416.0 | 417.6 | 423.3 | 449.8 |
| 55°    | 426.5 | 355.0 | 286.8 | 212.8 | 259.4 | 280.2  | 318.9 | 389.5 | 392.7 | 398.4 | 422.5 |
| 57.5°  | 381.5 | 295.6 | 281.9 | 191.1 | 221.6 | 241.7  | 289.2 | 363.8 | 365.4 | 370.3 | 393.6 |
| 60°    | 333.3 | 213.6 | 258.6 | 167.8 | 188.7 | 204.0  | 261.8 | 333.3 | 338.9 | 342.2 | 362.2 |
| 62.5°  | 278.6 | 155.0 | 234.5 | 151.8 | 172.6 | 175.9  | 239.3 | 304.4 | 311.6 | 314.1 | 326.1 |
| 65°    | 198.3 | 130.1 | 199.1 | 138.1 | 155.8 | 156.6  | 215.2 | 274.6 | 281.0 | 285.1 | 294.0 |
| 67.5°  | 134.1 | 106.0 | 151.8 | 125.3 | 142.9 | 143.7  | 191.9 | 240.1 | 248.9 | 252.1 | 257.8 |
| 70°    | 93.1  | 70.7  | 112.4 | 111.6 | 128.5 | 130.1  | 167.0 | 208.8 | 216.8 | 219.2 | 222.4 |
| 72.5°  | 68.3  | 57.0  | 93.1  | 100.4 | 113.2 | 114.8  | 141.3 | 173.4 | 181.5 | 183.9 | 185.5 |
| 75°    | 52.2  | 60.2  | 75.5  | 87.5  | 96.4  | 97.2   | 115.6 | 141.3 | 146.9 | 148.6 | 149.4 |
| 77.5°  | 41.8  | 56.2  | 55.4  | 70.7  | 78.7  | 77.1   | 90.7  | 109.2 | 114.0 | 114.0 | 114.0 |
| 80°    | 31.3  | 44.2  | 41.8  | 50.6  | 57.8  | 56.2   | 65.0  | 77.9  | 79.5  | 81.1  | 80.3  |
| 82.5°  | 23.3  | 28.1  | 28.1  | 32.1  | 38.5  | 36.9   | 43.4  | 50.6  | 50.6  | 50.6  | 52.2  |
| 85°    | 14.5  | 16.1  | 12.8  | 16.9  | 21.7  | 20.9   | 24.1  | 27.3  | 28.1  | 28.1  | 26.5  |
| 87.5°  | 8.8   | 7.2   | 4.0   | 6.4   | 9.6   | 9.6    | 11.2  | 12.0  | 11.2  | 11.2  | 11.2  |
| 90°    | 4.3   | 3.0   | 1.7   | 3.0   | 4.3   | 4.7    | 7.3   | 10.8  | 12.6  | 11.2  | 8.4   |
| 92.5°  | 29.1  | 17.8  | 6.6   | 17.8  | 29.1  | 32.0   | 44.9  | 62.2  | 70.8  | 62.1  | 44.6  |
| 95°    | 57.1  | 36.5  | 15.9  | 36.5  | 57.1  | 62.2   | 110.5 | 174.8 | 207.0 | 184.7 | 140.1 |
| 97.5°  | 63.8  | 45.6  | 27.5  | 45.6  | 63.8  | 68.3   | 148.8 | 256.2 | 309.8 | 295.7 | 267.6 |
| 100°   | 69.4  | 52.8  | 36.4  | 52.8  | 69.4  | 73.5   | 162.8 | 281.9 | 341.4 | 342.5 | 344.6 |
| 102.5° | 74.8  | 59.4  | 44.0  | 59.4  | 74.8  | 78.6   | 169.2 | 290.0 | 350.3 | 368.3 | 404.2 |
| 105°   | 82.9  | 69.9  | 56.9  | 69.9  | 82.9  | 86.2   | 173.9 | 290.9 | 349.4 | 389.6 | 470.1 |
| 107.5° | 94.4  | 82.3  | 70.2  | 82.3  | 94.4  | 97.5   | 174.8 | 278.0 | 329.6 | 385.7 | 497.9 |
| 110°   | 101.0 | 90.0  | 79.1  | 90.0  | 101.0 | 103.7  | 173.5 | 266.5 | 313.0 | 375.7 | 501.2 |



TEST NUMBER: P934350

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 108.7 | 98.3  | 87.8  | 98.3  | 108.7 | 111.4  | 173.5 | 256.5 | 297.9 | 362.2 | 490.6 |
| 115°   | 120.4 | 110.7 | 101.1 | 110.7 | 120.4 | 122.8  | 175.1 | 244.9 | 279.8 | 341.7 | 465.4 |
| 117.5° | 131.7 | 122.9 | 114.2 | 122.9 | 131.7 | 133.9  | 178.4 | 237.8 | 267.5 | 323.3 | 434.9 |
| 120°   | 138.3 | 130.1 | 121.8 | 130.1 | 138.3 | 140.4  | 181.1 | 235.4 | 262.5 | 313.5 | 415.6 |
| 122.5° | 145.9 | 137.6 | 129.3 | 137.6 | 145.9 | 148.0  | 184.9 | 234.1 | 258.6 | 304.6 | 396.5 |
| 125°   | 155.8 | 148.2 | 140.7 | 148.2 | 155.8 | 157.7  | 190.0 | 233.0 | 254.6 | 293.6 | 371.6 |
| 127.5° | 165.3 | 157.6 | 149.9 | 157.6 | 165.3 | 167.2  | 195.1 | 232.5 | 251.1 | 284.6 | 351.6 |
| 130°   | 171.4 | 163.2 | 154.9 | 163.2 | 171.4 | 173.4  | 198.9 | 232.8 | 249.7 | 279.6 | 339.3 |
| 132.5° | 176.5 | 168.3 | 160.0 | 168.3 | 176.5 | 178.6  | 202.0 | 233.0 | 248.6 | 275.3 | 328.7 |
| 135°   | 182.7 | 175.1 | 167.7 | 175.1 | 182.7 | 184.5  | 205.2 | 232.8 | 246.6 | 268.9 | 313.7 |
| 137.5° | 190.3 | 182.8 | 175.5 | 182.8 | 190.3 | 192.2  | 210.2 | 234.2 | 246.3 | 265.2 | 303.0 |
| 140°   | 195.6 | 188.7 | 181.9 | 188.7 | 195.6 | 197.3  | 213.2 | 234.5 | 245.1 | 261.5 | 294.1 |
| 142.5° | 199.5 | 193.2 | 186.9 | 193.2 | 199.5 | 201.1  | 215.8 | 235.3 | 245.1 | 259.4 | 288.1 |
| 145°   | 205.5 | 199.9 | 194.5 | 199.9 | 205.5 | 206.9  | 219.1 | 235.4 | 243.5 | 255.2 | 278.6 |
| 147.5° | 212.8 | 207.5 | 202.1 | 207.5 | 212.8 | 214.2  | 224.0 | 237.0 | 243.5 | 252.7 | 271.2 |
| 150°   | 216.7 | 211.8 | 207.0 | 211.8 | 216.7 | 217.9  | 226.4 | 237.8 | 243.5 | 251.3 | 266.8 |
| 152.5° | 219.5 | 215.8 | 212.2 | 215.8 | 219.5 | 220.4  | 228.1 | 238.3 | 243.5 | 250.1 | 263.5 |
| 155°   | 225.2 | 222.5 | 219.8 | 222.5 | 225.2 | 225.9  | 231.7 | 239.5 | 243.5 | 248.8 | 259.4 |
| 157.5° | 230.7 | 228.1 | 225.4 | 228.1 | 230.7 | 231.3  | 235.4 | 240.7 | 243.5 | 247.6 | 255.8 |
| 160°   | 233.4 | 231.3 | 229.3 | 231.3 | 233.4 | 233.8  | 237.0 | 241.3 | 243.5 | 247.0 | 254.1 |
| 162.5° | 236.1 | 234.6 | 233.0 | 234.6 | 236.1 | 236.5  | 238.8 | 241.9 | 243.5 | 246.4 | 252.4 |
| 165°   | 240.0 | 238.6 | 237.2 | 238.6 | 240.0 | 240.3  | 241.4 | 242.7 | 243.5 | 245.6 | 249.8 |
| 167.5° | 242.3 | 241.6 | 241.0 | 241.6 | 242.3 | 242.4  | 243.3 | 244.5 | 245.1 | 246.5 | 249.3 |
| 170°   | 244.8 | 244.1 | 243.5 | 244.1 | 244.8 | 244.9  | 245.0 | 245.1 | 245.1 | 246.5 | 249.3 |
| 172.5° | 245.1 | 244.9 | 244.8 | 244.9 | 245.1 | 245.1  | 245.1 | 245.1 | 245.1 | 246.2 | 248.4 |
| 175°   | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6  | 246.1 | 245.4 | 245.1 | 245.8 | 247.2 |
| 177.5° | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6  | 246.2 | 245.7 | 245.5 | 246.0 | 247.2 |
| 180°   | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6  | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 |



TEST NUMBER: P934350  
 CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 260°  | 270°  | 280°  | 290°  | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 0°     | 848.9  | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9  | 848.9 | 848.9 | 848.9 | 848.9 |
| 2.5°   | 819.1  | 816.7 | 819.9 | 811.1 | 819.9 | 816.7 | 819.1  | 824.8 | 819.9 | 823.2 | 826.4 |
| 5°     | 718.8  | 714.8 | 701.9 | 691.5 | 701.9 | 714.8 | 718.8  | 735.6 | 743.7 | 758.1 | 777.4 |
| 7.5°   | 642.5  | 639.3 | 636.1 | 629.6 | 636.1 | 639.3 | 642.5  | 647.3 | 655.3 | 668.2 | 682.6 |
| 10°    | 625.6  | 626.4 | 631.2 | 630.4 | 631.2 | 626.4 | 625.6  | 624.0 | 621.6 | 624.0 | 632.8 |
| 12.5°  | 669.0  | 676.2 | 702.7 | 701.1 | 702.7 | 676.2 | 669.0  | 636.9 | 615.2 | 611.2 | 612.8 |
| 15°    | 718.8  | 721.2 | 726.8 | 727.6 | 726.8 | 721.2 | 718.8  | 705.9 | 640.9 | 612.8 | 603.9 |
| 17.5°  | 723.6  | 724.4 | 728.4 | 728.4 | 728.4 | 724.4 | 723.6  | 718.0 | 696.3 | 658.5 | 608.8 |
| 20°    | 719.6  | 721.2 | 729.2 | 730.8 | 729.2 | 721.2 | 719.6  | 712.3 | 700.3 | 686.6 | 648.9 |
| 22.5°  | 718.0  | 721.2 | 727.6 | 726.8 | 727.6 | 721.2 | 718.0  | 706.7 | 696.3 | 686.6 | 671.4 |
| 25°    | 709.9  | 709.9 | 710.7 | 711.5 | 710.7 | 709.9 | 709.9  | 701.1 | 680.2 | 677.8 | 669.0 |
| 27.5°  | 693.1  | 694.7 | 699.5 | 698.7 | 699.5 | 694.7 | 693.1  | 689.9 | 667.4 | 665.0 | 658.5 |
| 30°    | 677.8  | 676.2 | 672.2 | 669.0 | 672.2 | 676.2 | 677.8  | 673.0 | 650.5 | 644.1 | 645.7 |
| 32.5°  | 652.1  | 648.1 | 644.1 | 641.7 | 644.1 | 648.1 | 652.1  | 650.5 | 633.6 | 624.8 | 626.4 |
| 35°    | 621.6  | 622.4 | 621.6 | 619.2 | 621.6 | 622.4 | 621.6  | 623.2 | 612.8 | 604.7 | 603.9 |
| 37.5°  | 599.9  | 601.5 | 600.7 | 597.5 | 600.7 | 601.5 | 599.9  | 598.3 | 583.9 | 581.5 | 583.1 |
| 40°    | 577.4  | 578.2 | 577.4 | 575.0 | 577.4 | 578.2 | 577.4  | 574.2 | 554.2 | 555.0 | 560.6 |
| 42.5°  | 555.8  | 555.0 | 552.5 | 550.9 | 552.5 | 555.0 | 555.8  | 550.9 | 525.2 | 522.8 | 533.3 |
| 45°    | 530.9  | 531.7 | 526.8 | 524.4 | 526.8 | 531.7 | 530.9  | 527.7 | 501.2 | 494.7 | 502.0 |
| 47.5°  | 506.0  | 506.0 | 502.0 | 499.5 | 502.0 | 506.0 | 506.0  | 502.0 | 473.9 | 467.4 | 471.4 |
| 50°    | 479.5  | 478.7 | 473.0 | 472.2 | 473.0 | 478.7 | 479.5  | 477.1 | 447.4 | 441.7 | 441.7 |
| 52.5°  | 449.0  | 449.0 | 449.8 | 451.4 | 449.8 | 449.0 | 449.0  | 449.8 | 423.3 | 417.6 | 416.0 |
| 55°    | 422.5  | 423.3 | 428.9 | 430.5 | 428.9 | 423.3 | 422.5  | 422.5 | 398.4 | 392.7 | 389.5 |
| 57.5°  | 395.2  | 395.2 | 399.2 | 399.2 | 399.2 | 395.2 | 395.2  | 393.6 | 370.3 | 365.4 | 363.8 |
| 60°    | 363.8  | 365.4 | 368.7 | 367.9 | 368.7 | 365.4 | 363.8  | 362.2 | 342.2 | 338.9 | 333.3 |
| 62.5°  | 330.9  | 332.5 | 333.3 | 331.7 | 333.3 | 332.5 | 330.9  | 326.1 | 314.1 | 311.6 | 304.4 |
| 65°    | 296.4  | 298.0 | 298.8 | 297.2 | 298.8 | 298.0 | 296.4  | 294.0 | 285.1 | 281.0 | 274.6 |
| 67.5°  | 261.0  | 260.2 | 259.4 | 262.6 | 259.4 | 260.2 | 261.0  | 257.8 | 252.1 | 248.9 | 240.1 |
| 70°    | 224.8  | 224.8 | 224.0 | 225.6 | 224.0 | 224.8 | 224.8  | 222.4 | 219.2 | 216.8 | 208.8 |
| 72.5°  | 186.3  | 185.5 | 188.7 | 186.3 | 188.7 | 185.5 | 186.3  | 185.5 | 183.9 | 181.5 | 173.4 |
| 75°    | 148.6  | 150.2 | 148.6 | 151.0 | 148.6 | 150.2 | 148.6  | 149.4 | 148.6 | 146.9 | 141.3 |
| 77.5°  | 113.2  | 114.8 | 113.2 | 113.2 | 113.2 | 114.8 | 113.2  | 114.0 | 114.0 | 114.0 | 109.2 |
| 80°    | 80.3   | 79.5  | 79.5  | 78.7  | 79.5  | 79.5  | 80.3   | 80.3  | 81.1  | 79.5  | 77.9  |
| 82.5°  | 51.4   | 50.6  | 50.6  | 52.2  | 50.6  | 50.6  | 51.4   | 52.2  | 50.6  | 50.6  | 50.6  |
| 85°    | 28.1   | 28.9  | 27.3  | 27.3  | 27.3  | 28.9  | 28.1   | 26.5  | 28.1  | 28.1  | 27.3  |
| 87.5°  | 10.4   | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 10.4   | 11.2  | 11.2  | 11.2  | 12.0  |
| 90°    | 6.3    | 6.3   | 6.3   | 6.3   | 6.3   | 6.3   | 6.3    | 8.4   | 11.2  | 12.6  | 10.8  |
| 92.5°  | 31.5   | 30.2  | 25.2  | 20.2  | 25.2  | 30.2  | 31.5   | 44.6  | 62.1  | 70.8  | 62.2  |
| 95°    | 106.7  | 102.9 | 87.8  | 72.7  | 87.8  | 102.9 | 106.7  | 140.1 | 184.7 | 207.0 | 174.8 |
| 97.5°  | 246.4  | 239.2 | 210.4 | 181.6 | 210.4 | 239.2 | 246.4  | 267.6 | 295.7 | 309.8 | 256.2 |
| 100°   | 346.1  | 337.5 | 303.1 | 268.8 | 303.1 | 337.5 | 346.1  | 344.6 | 342.5 | 341.4 | 281.9 |
| 102.5° | 431.1  | 423.7 | 394.4 | 365.0 | 394.4 | 423.7 | 431.1  | 404.2 | 368.3 | 350.3 | 290.0 |
| 105°   | 530.5  | 526.5 | 510.7 | 494.9 | 510.7 | 526.5 | 530.5  | 470.1 | 389.6 | 349.4 | 290.9 |
| 107.5° | 582.1  | 583.1 | 586.8 | 590.7 | 586.8 | 583.1 | 582.1  | 497.9 | 385.7 | 329.6 | 278.0 |
| 110°   | 595.3  | 599.4 | 615.9 | 632.4 | 615.9 | 599.4 | 595.3  | 501.2 | 375.7 | 313.0 | 266.5 |



TEST NUMBER: P934350

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 260°  | 270°  | 280°  | 290°  | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 112.5° | 586.9  | 593.3 | 618.6 | 643.8 | 618.6 | 593.3 | 586.9  | 490.6 | 362.2 | 297.9 | 256.5 |
| 115°   | 558.2  | 567.0 | 602.1 | 637.2 | 602.1 | 567.0 | 558.2  | 465.4 | 341.7 | 279.8 | 244.9 |
| 117.5° | 518.7  | 528.4 | 567.3 | 606.3 | 567.3 | 528.4 | 518.7  | 434.9 | 323.3 | 267.5 | 237.8 |
| 120°   | 492.1  | 501.6 | 539.3 | 577.1 | 539.3 | 501.6 | 492.1  | 415.6 | 313.5 | 262.5 | 235.4 |
| 122.5° | 465.4  | 474.7 | 512.1 | 549.3 | 512.1 | 474.7 | 465.4  | 396.5 | 304.6 | 258.6 | 234.1 |
| 125°   | 430.2  | 438.8 | 473.0 | 507.4 | 473.0 | 438.8 | 430.2  | 371.6 | 293.6 | 254.6 | 233.0 |
| 127.5° | 401.8  | 409.0 | 438.0 | 467.0 | 438.0 | 409.0 | 401.8  | 351.6 | 284.6 | 251.1 | 232.5 |
| 130°   | 384.0  | 390.7 | 417.5 | 444.2 | 417.5 | 390.7 | 384.0  | 339.3 | 279.6 | 249.7 | 232.8 |
| 132.5° | 368.7  | 374.8 | 398.7 | 422.7 | 398.7 | 374.8 | 368.7  | 328.7 | 275.3 | 248.6 | 233.0 |
| 135°   | 347.2  | 352.4 | 373.1 | 393.7 | 373.1 | 352.4 | 347.2  | 313.7 | 268.9 | 246.6 | 232.8 |
| 137.5° | 331.3  | 335.6 | 352.4 | 369.4 | 352.4 | 335.6 | 331.3  | 303.0 | 265.2 | 246.3 | 234.2 |
| 140°   | 318.6  | 322.6 | 338.4 | 354.2 | 338.4 | 322.6 | 318.6  | 294.1 | 261.5 | 245.1 | 234.5 |
| 142.5° | 309.6  | 313.0 | 326.7 | 340.3 | 326.7 | 313.0 | 309.6  | 288.1 | 259.4 | 245.1 | 235.3 |
| 145°   | 296.2  | 298.8 | 309.2 | 319.4 | 309.2 | 298.8 | 296.2  | 278.6 | 255.2 | 243.5 | 235.4 |
| 147.5° | 285.0  | 287.2 | 295.7 | 304.2 | 295.7 | 287.2 | 285.0  | 271.2 | 252.7 | 243.5 | 237.0 |
| 150°   | 278.6  | 280.3 | 287.2 | 294.1 | 287.2 | 280.3 | 278.6  | 266.8 | 251.3 | 243.5 | 237.8 |
| 152.5° | 273.4  | 274.7 | 279.9 | 285.1 | 279.9 | 274.7 | 273.4  | 263.5 | 250.1 | 243.5 | 238.3 |
| 155°   | 267.3  | 268.2 | 271.7 | 275.1 | 271.7 | 268.2 | 267.3  | 259.4 | 248.8 | 243.5 | 239.5 |
| 157.5° | 262.0  | 262.7 | 265.1 | 267.5 | 265.1 | 262.7 | 262.0  | 255.8 | 247.6 | 243.5 | 240.7 |
| 160°   | 259.4  | 259.7 | 261.1 | 262.5 | 261.1 | 259.7 | 259.4  | 254.1 | 247.0 | 243.5 | 241.3 |
| 162.5° | 256.9  | 257.2 | 258.6 | 259.9 | 258.6 | 257.2 | 256.9  | 252.4 | 246.4 | 243.5 | 241.9 |
| 165°   | 253.0  | 253.3 | 254.8 | 256.2 | 254.8 | 253.3 | 253.0  | 249.8 | 245.6 | 243.5 | 242.7 |
| 167.5° | 251.4  | 251.6 | 252.1 | 252.7 | 252.1 | 251.6 | 251.4  | 249.3 | 246.5 | 245.1 | 244.5 |
| 170°   | 251.4  | 251.4 | 251.4 | 251.4 | 251.4 | 251.4 | 251.4  | 249.3 | 246.5 | 245.1 | 245.1 |
| 172.5° | 250.1  | 249.9 | 249.4 | 248.9 | 249.4 | 249.9 | 250.1  | 248.4 | 246.2 | 245.1 | 245.1 |
| 175°   | 248.3  | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3  | 247.2 | 245.8 | 245.1 | 245.4 |
| 177.5° | 248.0  | 247.8 | 247.2 | 246.6 | 247.2 | 247.8 | 248.0  | 247.2 | 246.0 | 245.5 | 245.7 |
| 180°   | 246.6  | 246.6 | 246.6 | 246.6 | 246.6 | 246.6 | 246.6  | 246.6 | 246.6 | 246.6 | 246.6 |



TEST NUMBER: P934350

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 0°     | 848.9 | 848.9  | 848.9 | 848.9 | 848.9 |
| 2.5°   | 838.4 | 842.4  | 844.8 | 848.0 | 856.1 |
| 5°     | 806.3 | 821.5  | 826.4 | 838.4 | 852.9 |
| 7.5°   | 735.6 | 782.2  | 795.1 | 824.0 | 846.4 |
| 10°    | 667.4 | 713.9  | 736.4 | 804.7 | 838.4 |
| 12.5°  | 632.8 | 660.1  | 675.4 | 771.0 | 827.2 |
| 15°    | 611.2 | 630.4  | 641.7 | 726.0 | 814.3 |
| 17.5°  | 594.3 | 608.0  | 616.0 | 681.8 | 796.7 |
| 20°    | 583.9 | 590.3  | 597.5 | 649.7 | 776.6 |
| 22.5°  | 576.6 | 572.6  | 578.2 | 627.2 | 749.3 |
| 25°    | 571.8 | 556.6  | 563.0 | 609.6 | 717.2 |
| 27.5°  | 575.8 | 542.1  | 544.5 | 593.5 | 683.4 |
| 30°    | 576.6 | 524.4  | 525.2 | 576.6 | 645.7 |
| 32.5°  | 571.0 | 506.0  | 506.8 | 555.8 | 603.1 |
| 35°    | 557.4 | 484.3  | 483.5 | 531.7 | 545.3 |
| 37.5°  | 538.9 | 461.0  | 461.0 | 505.2 | 481.9 |
| 40°    | 516.4 | 437.7  | 440.1 | 470.6 | 425.7 |
| 42.5°  | 489.1 | 412.8  | 416.0 | 424.9 | 383.9 |
| 45°    | 459.4 | 388.7  | 391.1 | 359.0 | 351.8 |
| 47.5°  | 426.5 | 363.8  | 364.6 | 298.0 | 341.4 |
| 50°    | 387.1 | 338.1  | 334.9 | 255.4 | 340.6 |
| 52.5°  | 352.6 | 310.0  | 300.4 | 231.3 | 309.2 |
| 55°    | 318.9 | 280.2  | 259.4 | 212.8 | 286.8 |
| 57.5°  | 289.2 | 241.7  | 221.6 | 191.1 | 281.9 |
| 60°    | 261.8 | 204.0  | 188.7 | 167.8 | 258.6 |
| 62.5°  | 239.3 | 175.9  | 172.6 | 151.8 | 234.5 |
| 65°    | 215.2 | 156.6  | 155.8 | 138.1 | 199.1 |
| 67.5°  | 191.9 | 143.7  | 142.9 | 125.3 | 151.8 |
| 70°    | 167.0 | 130.1  | 128.5 | 111.6 | 112.4 |
| 72.5°  | 141.3 | 114.8  | 113.2 | 100.4 | 93.1  |
| 75°    | 115.6 | 97.2   | 96.4  | 87.5  | 75.5  |
| 77.5°  | 90.7  | 77.1   | 78.7  | 70.7  | 55.4  |
| 80°    | 65.0  | 56.2   | 57.8  | 50.6  | 41.8  |
| 82.5°  | 43.4  | 36.9   | 38.5  | 32.1  | 28.1  |
| 85°    | 24.1  | 20.9   | 21.7  | 16.9  | 12.8  |
| 87.5°  | 11.2  | 9.6    | 9.6   | 6.4   | 4.0   |
| 90°    | 7.3   | 4.7    | 4.3   | 3.0   | 1.7   |
| 92.5°  | 44.9  | 32.0   | 29.1  | 17.8  | 6.6   |
| 95°    | 110.5 | 62.2   | 57.1  | 36.5  | 15.9  |
| 97.5°  | 148.8 | 68.3   | 63.8  | 45.6  | 27.5  |
| 100°   | 162.8 | 73.5   | 69.4  | 52.8  | 36.4  |
| 102.5° | 169.2 | 78.6   | 74.8  | 59.4  | 44.0  |
| 105°   | 173.9 | 86.2   | 82.9  | 69.9  | 56.9  |
| 107.5° | 174.8 | 97.5   | 94.4  | 82.3  | 70.2  |
| 110°   | 173.5 | 103.7  | 101.0 | 90.0  | 79.1  |



TEST NUMBER: P934350

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 173.5 | 111.4  | 108.7 | 98.3  | 87.8  |
| 115°   | 175.1 | 122.8  | 120.4 | 110.7 | 101.1 |
| 117.5° | 178.4 | 133.9  | 131.7 | 122.9 | 114.2 |
| 120°   | 181.1 | 140.4  | 138.3 | 130.1 | 121.8 |
| 122.5° | 184.9 | 148.0  | 145.9 | 137.6 | 129.3 |
| 125°   | 190.0 | 157.7  | 155.8 | 148.2 | 140.7 |
| 127.5° | 195.1 | 167.2  | 165.3 | 157.6 | 149.9 |
| 130°   | 198.9 | 173.4  | 171.4 | 163.2 | 154.9 |
| 132.5° | 202.0 | 178.6  | 176.5 | 168.3 | 160.0 |
| 135°   | 205.2 | 184.5  | 182.7 | 175.1 | 167.7 |
| 137.5° | 210.2 | 192.2  | 190.3 | 182.8 | 175.5 |
| 140°   | 213.2 | 197.3  | 195.6 | 188.7 | 181.9 |
| 142.5° | 215.8 | 201.1  | 199.5 | 193.2 | 186.9 |
| 145°   | 219.1 | 206.9  | 205.5 | 199.9 | 194.5 |
| 147.5° | 224.0 | 214.2  | 212.8 | 207.5 | 202.1 |
| 150°   | 226.4 | 217.9  | 216.7 | 211.8 | 207.0 |
| 152.5° | 228.1 | 220.4  | 219.5 | 215.8 | 212.2 |
| 155°   | 231.7 | 225.9  | 225.2 | 222.5 | 219.8 |
| 157.5° | 235.4 | 231.3  | 230.7 | 228.1 | 225.4 |
| 160°   | 237.0 | 233.8  | 233.4 | 231.3 | 229.3 |
| 162.5° | 238.8 | 236.5  | 236.1 | 234.6 | 233.0 |
| 165°   | 241.4 | 240.3  | 240.0 | 238.6 | 237.2 |
| 167.5° | 243.3 | 242.4  | 242.3 | 241.6 | 241.0 |
| 170°   | 245.0 | 244.9  | 244.8 | 244.1 | 243.5 |
| 172.5° | 245.1 | 245.1  | 245.1 | 244.9 | 244.8 |
| 175°   | 246.1 | 246.6  | 246.6 | 246.6 | 246.6 |
| 177.5° | 246.2 | 246.6  | 246.6 | 246.6 | 246.6 |
| 180°   | 246.6 | 246.6  | 246.6 | 246.6 | 246.6 |



TEST NUMBER: P934350  
 CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-4

**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 | 12.67            | 13.60 | 13.55 | 14.51 | 15.66 | 15.46          | 16.40 | 16.35 | 17.31 | 18.46 |
|                 | 3H   | 13.15            | 13.99 | 14.05 | 14.91 | 16.08 | 16.81          | 17.65 | 17.70 | 18.56 | 19.74 |
|                 | 4H   | 13.34            | 14.14 | 14.26 | 15.06 | 16.25 | 17.25          | 18.04 | 18.16 | 18.96 | 20.15 |
|                 | 6H   | 13.47            | 14.20 | 14.39 | 15.13 | 16.33 | 17.53          | 18.26 | 18.45 | 19.19 | 20.39 |
|                 | 8H   | 13.47            | 14.17 | 14.40 | 15.11 | 16.31 | 17.60          | 18.30 | 18.53 | 19.24 | 20.44 |
|                 | 12H  | 13.44            | 14.11 | 14.38 | 15.05 | 16.27 | 17.64          | 18.30 | 18.58 | 19.24 | 20.47 |
| 4H              | 2H   | 13.70            | 14.50 | 14.62 | 15.42 | 16.60 | 15.89          | 16.68 | 16.80 | 17.60 | 18.79 |
|                 | 3H   | 14.73            | 15.40 | 15.66 | 16.35 | 17.55 | 17.39          | 18.05 | 18.32 | 19.00 | 20.20 |
|                 | 4H   | 15.01            | 15.62 | 15.95 | 16.56 | 17.79 | 17.91          | 18.52 | 18.85 | 19.46 | 20.69 |
|                 | 6H   | 15.14            | 15.66 | 16.10 | 16.64 | 17.86 | 18.27          | 18.79 | 19.23 | 19.77 | 20.99 |
|                 | 8H   | 15.15            | 15.64 | 16.11 | 16.60 | 17.84 | 18.38          | 18.86 | 19.33 | 19.83 | 21.07 |
|                 | 12H  | 15.12            | 15.56 | 16.10 | 16.54 | 17.79 | 18.43          | 18.87 | 19.41 | 19.85 | 21.10 |
| 8H              | 4H   | 15.47            | 15.95 | 16.42 | 16.92 | 18.16 | 18.04          | 18.53 | 19.00 | 19.49 | 20.74 |
|                 | 6H   | 15.73            | 16.14 | 16.71 | 17.14 | 18.38 | 18.48          | 18.88 | 19.46 | 19.88 | 21.12 |
|                 | 8H   | 15.78            | 16.13 | 16.77 | 17.13 | 18.39 | 18.62          | 18.98 | 19.61 | 19.97 | 21.23 |
|                 | 12H  | 15.76            | 16.08 | 16.76 | 17.07 | 18.37 | 18.72          | 19.03 | 19.71 | 20.02 | 21.33 |
| 12H             | 4H   | 15.48            | 15.92 | 16.45 | 16.90 | 18.14 | 18.01          | 18.45 | 18.99 | 19.43 | 20.68 |
|                 | 6H   | 15.79            | 16.15 | 16.78 | 17.14 | 18.40 | 18.47          | 18.83 | 19.46 | 19.82 | 21.08 |
|                 | 8H   | 15.86            | 16.18 | 16.86 | 17.16 | 18.47 | 18.63          | 18.95 | 19.63 | 19.93 | 21.24 |