

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: P934636

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

**Test Information**

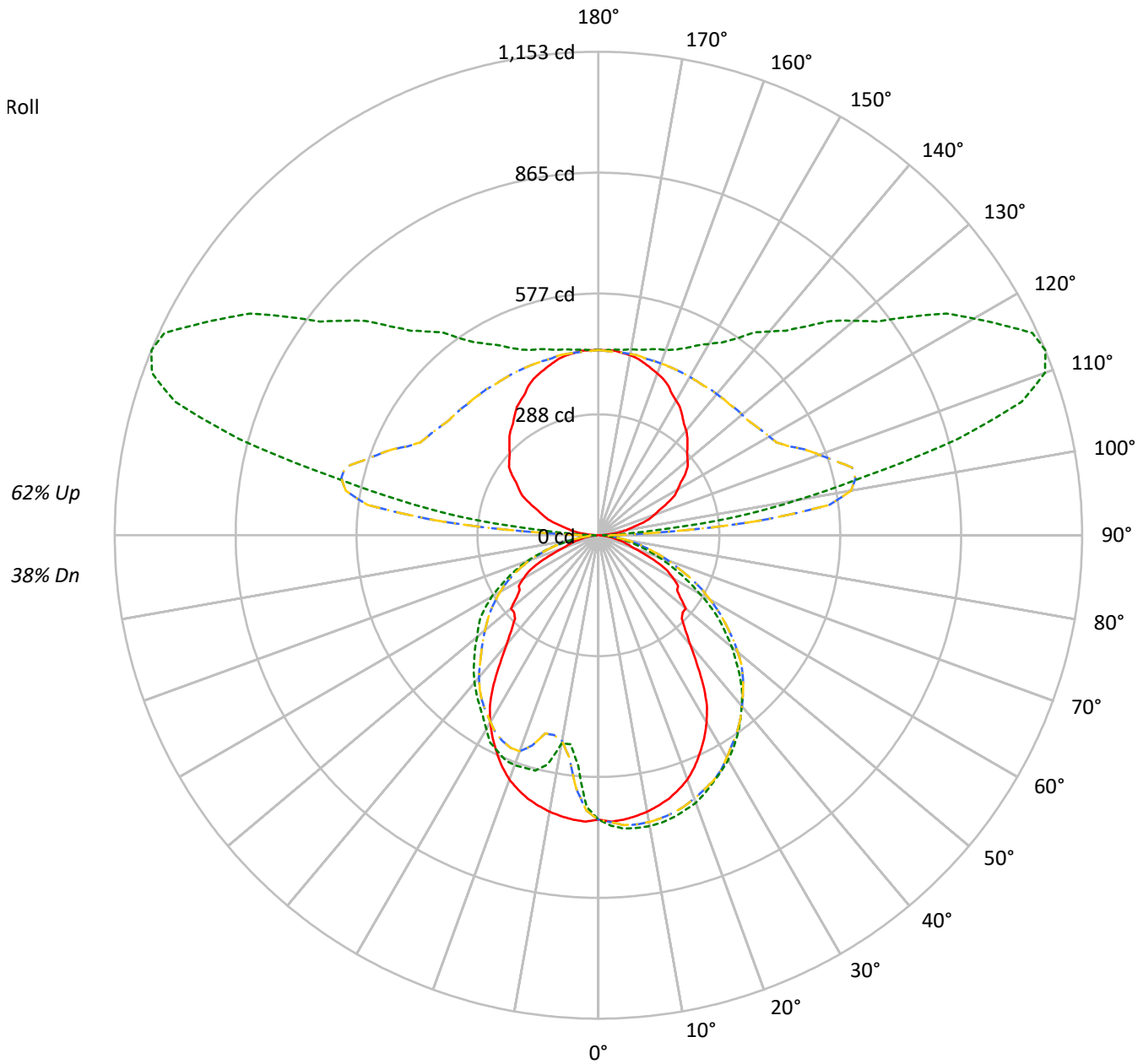
Test Method: LM-79-2019  
Report Number: P934636  
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4622.2 lumens  
Efficiency: N/A  
Efficacy: 134.4 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: Semi-Indirect  
  
Input Watts (W): 34.4  
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: P934636  
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### Luminous Intensity Polar Plot



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



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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |    |    | 0  |    |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 60 | 60 | 60 | 45 | 45 | 45 | 38 |    |    | 38 |
| 1   | 95  | 91  | 87  | 84  | 86 | 83 | 79 | 77 | 67 | 65 | 63 | 53 | 52 | 50 | 40 | 39 | 38 | 32 |    |    | 32 |
| 2   | 87  | 79  | 73  | 68  | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 47 | 44 | 42 | 35 | 34 | 32 | 27 |    |    | 27 |
| 3   | 79  | 70  | 63  | 57  | 71 | 64 | 57 | 52 | 52 | 47 | 44 | 41 | 38 | 35 | 31 | 29 | 27 | 23 |    |    | 23 |
| 4   | 72  | 62  | 54  | 48  | 65 | 56 | 50 | 44 | 46 | 41 | 37 | 37 | 33 | 30 | 28 | 25 | 24 | 20 |    |    | 20 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 22 | 20 | 17 |    |    | 17 |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 20 | 18 | 15 |    |    | 15 |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 34 | 29 | 33 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 | 13 |    |    | 13 |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 22 | 24 | 21 | 18 | 19 | 16 | 14 | 12 |    |    | 12 |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 11 |    |    | 11 |
| 10  | 45  | 33  | 26  | 22  | 41 | 31 | 24 | 20 | 26 | 21 | 17 | 21 | 17 | 14 | 16 | 14 | 12 | 10 |    |    | 10 |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 6289 | 6289 | 6289 | 6289 |
| 5°  | 6329 | 6349 | 6329 | 4992 |
| 10° | 6281 | 6254 | 6281 | 4471 |
| 15° | 6205 | 6119 | 6205 | 5109 |
| 20° | 6068 | 5958 | 6068 | 5120 |
| 25° | 5796 | 5724 | 5796 | 5012 |
| 30° | 5446 | 5529 | 5446 | 4773 |
| 35° | 4848 | 5284 | 4848 | 4511 |
| 40° | 4031 | 4994 | 4031 | 4314 |
| 45° | 3595 | 4656 | 3595 | 4086 |
| 50° | 3812 | 4252 | 3812 | 3857 |
| 55° | 3575 | 3817 | 3575 | 3727 |
| 60° | 3673 | 3241 | 3673 | 3412 |
| 65° | 3313 | 2680 | 3313 | 2994 |
| 70° | 2280 | 2136 | 2280 | 2510 |
| 75° | 1974 | 1579 | 1974 | 1891 |
| 80° | 1563 | 1045 | 1563 | 1135 |
| 85° | 845  | 552  | 845  | 470  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5522 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 61.2   | 1.3       |
| 10°-20°   | 173.7  | 3.8       |
| 20°-30°   | 268.5  | 5.8       |
| 30°-40°   | 320.6  | 6.9       |
| 40°-50°   | 322.5  | 7.0       |
| 50°-60°   | 280.6  | 6.1       |
| 60°-70°   | 198.9  | 4.3       |
| 70°-80°   | 105.3  | 2.3       |
| 80°-90°   | 27.9   | 0.6       |
| 90°-100°  | 215.3  | 4.7       |
| 100°-110° | 566.0  | 12.2      |
| 110°-120° | 586.9  | 12.7      |
| 120°-130° | 470.8  | 10.2      |
| 130°-140° | 369.4  | 8.0       |
| 140°-150° | 283.5  | 6.1       |
| 150°-160° | 204.2  | 4.4       |
| 160°-170° | 124.9  | 2.7       |
| 170°-180° | 42.2   | 0.9       |
| 0°-30°    | 503.5  | 10.9      |
| 0°-40°    | 824.0  | 17.8      |
| 0°-60°    | 1427.1 | 30.9      |
| 0°-90°    | 1759.2 | 38.1      |
| 90°-120°  | 1368.2 | 29.6      |
| 90°-150°  | 2491.8 | 53.9      |
| 90°-180°  | 2863.0 | 61.9      |
| 0°-180°   | 4622.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90°  | 180° | 270° | 360° | Flux |
|------|-----|------|------|------|------|------|
| 0°   | 678 | 678  | 678  | 678  | 678  |      |
| 5°   | 681 | 702  | 681  | 552  | 681  | 65   |
| 15°  | 650 | 696  | 650  | 581  | 650  | 183  |
| 25°  | 573 | 649  | 573  | 568  | 573  | 263  |
| 35°  | 436 | 579  | 436  | 494  | 436  | 269  |
| 45°  | 281 | 477  | 281  | 419  | 281  | 225  |
| 55°  | 229 | 352  | 229  | 344  | 229  | 210  |
| 65°  | 159 | 212  | 159  | 237  | 159  | 152  |
| 75°  | 60  | 101  | 60   | 121  | 60   | 63   |
| 85°  | 10  | 26   | 10   | 22   | 10   | 14   |
| 90°  | 3   | 11   | 3    | 11   | 3    | 3    |
| 95°  | 28  | 130  | 28   | 130  | 28   | 32   |
| 105° | 102 | 886  | 102  | 886  | 102  | 108  |
| 115° | 181 | 1141 | 181  | 1141 | 181  | 179  |
| 125° | 252 | 909  | 252  | 909  | 252  | 224  |
| 135° | 300 | 705  | 300  | 705  | 300  | 232  |
| 145° | 348 | 572  | 348  | 572  | 348  | 218  |
| 155° | 394 | 493  | 394  | 493  | 394  | 181  |
| 165° | 425 | 459  | 425  | 459  | 425  | 120  |
| 175° | 442 | 445  | 442  | 445  | 442  | 42   |
| 180° | 442 | 442  | 442  | 442  | 442  |      |



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CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0°     | 677.8 | 677.8 | 677.8 | 677.8 | 677.8 | 677.8 | 677.8 | 677.8 | 677.8 | 677.8  | 677.8  |
| 2.5°   | 683.6 | 683.6 | 687.4 | 688.7 | 688.7 | 686.8 | 684.9 | 686.8 | 692.6 | 694.5  | 693.8  |
| 5°     | 681.0 | 686.2 | 693.2 | 694.5 | 695.8 | 695.2 | 693.8 | 695.2 | 701.6 | 702.8  | 703.5  |
| 7.5°   | 675.9 | 685.5 | 694.5 | 696.4 | 698.3 | 696.4 | 695.8 | 697.1 | 703.5 | 704.7  | 704.7  |
| 10°    | 669.5 | 682.9 | 693.2 | 694.5 | 696.4 | 694.5 | 694.5 | 697.1 | 703.5 | 704.7  | 705.4  |
| 12.5°  | 660.5 | 679.1 | 688.7 | 690.0 | 692.6 | 691.9 | 691.3 | 693.8 | 700.3 | 701.6  | 701.6  |
| 15°    | 650.2 | 672.0 | 681.0 | 682.3 | 686.8 | 685.5 | 685.5 | 688.1 | 695.2 | 697.1  | 696.4  |
| 17.5°  | 636.2 | 663.1 | 673.4 | 675.3 | 678.5 | 677.8 | 678.5 | 681.0 | 687.4 | 688.7  | 689.4  |
| 20°    | 620.1 | 650.9 | 663.1 | 665.0 | 668.2 | 668.2 | 668.2 | 671.4 | 677.8 | 680.4  | 680.4  |
| 22.5°  | 598.3 | 638.1 | 650.9 | 652.2 | 656.0 | 656.0 | 657.3 | 661.8 | 667.5 | 668.2  | 668.2  |
| 25°    | 572.7 | 623.9 | 634.8 | 638.7 | 642.6 | 644.5 | 646.4 | 649.0 | 650.9 | 650.2  | 650.9  |
| 27.5°  | 545.7 | 606.0 | 620.1 | 622.7 | 627.8 | 629.7 | 632.3 | 632.9 | 633.6 | 635.5  | 634.2  |
| 30°    | 515.6 | 581.0 | 602.1 | 604.7 | 613.0 | 614.4 | 611.8 | 613.0 | 616.3 | 617.5  | 618.8  |
| 32.5°  | 481.6 | 543.8 | 583.6 | 589.3 | 597.0 | 593.2 | 592.6 | 594.5 | 599.6 | 599.6  | 600.9  |
| 35°    | 435.5 | 514.9 | 566.3 | 571.4 | 577.2 | 572.7 | 575.2 | 575.8 | 579.1 | 581.0  | 580.3  |
| 37.5°  | 384.8 | 490.0 | 548.3 | 552.1 | 556.6 | 550.9 | 554.7 | 556.6 | 559.2 | 557.9  | 557.9  |
| 40°    | 339.8 | 450.8 | 527.1 | 529.7 | 533.6 | 529.1 | 532.9 | 534.2 | 535.5 | 534.2  | 533.6  |
| 42.5°  | 306.6 | 407.8 | 504.7 | 507.9 | 505.3 | 508.5 | 509.8 | 512.4 | 510.4 | 507.9  | 507.9  |
| 45°    | 280.8 | 396.3 | 480.3 | 484.1 | 480.3 | 485.5 | 487.4 | 487.4 | 481.6 | 480.3  | 479.6  |
| 47.5°  | 272.5 | 373.2 | 455.9 | 455.9 | 454.0 | 460.4 | 463.7 | 459.2 | 453.4 | 451.4  | 451.4  |
| 50°    | 271.9 | 347.6 | 422.6 | 420.1 | 429.0 | 436.7 | 433.5 | 429.0 | 424.5 | 417.5  | 417.5  |
| 52.5°  | 246.9 | 316.1 | 379.6 | 389.3 | 403.3 | 407.8 | 402.7 | 398.3 | 390.5 | 387.4  | 384.8  |
| 55°    | 228.9 | 283.4 | 340.5 | 359.7 | 374.5 | 380.3 | 370.6 | 366.1 | 354.7 | 352.7  | 351.4  |
| 57.5°  | 225.1 | 236.0 | 304.6 | 328.9 | 346.9 | 346.3 | 340.5 | 332.2 | 322.5 | 320.6  | 320.0  |
| 60°    | 206.5 | 170.6 | 266.1 | 295.0 | 313.5 | 311.6 | 306.6 | 298.8 | 289.8 | 288.6  | 287.3  |
| 62.5°  | 187.2 | 123.7 | 222.5 | 255.2 | 281.5 | 280.8 | 276.4 | 264.9 | 258.5 | 255.2  | 252.6  |
| 65°    | 159.0 | 103.8 | 158.4 | 212.3 | 250.1 | 251.4 | 241.7 | 233.4 | 226.3 | 222.5  | 221.8  |
| 67.5°  | 121.2 | 84.6  | 107.1 | 177.0 | 219.9 | 218.7 | 206.5 | 202.6 | 193.6 | 191.7  | 187.9  |
| 70°    | 89.8  | 56.4  | 74.4  | 143.6 | 190.5 | 187.2 | 177.7 | 173.2 | 164.8 | 160.4  | 157.8  |
| 72.5°  | 74.4  | 45.5  | 54.5  | 111.6 | 160.4 | 156.4 | 148.1 | 143.0 | 136.0 | 132.1  | 129.6  |
| 75°    | 60.2  | 48.1  | 41.7  | 82.7  | 130.1 | 127.7 | 119.9 | 114.7 | 109.0 | 103.8  | 104.5  |
| 77.5°  | 44.3  | 44.8  | 33.4  | 60.9  | 103.3 | 99.4  | 94.9  | 88.5  | 86.0  | 80.8   | 80.8   |
| 80°    | 33.4  | 35.3  | 25.1  | 41.7  | 74.4  | 74.4  | 70.6  | 66.1  | 61.6  | 59.0   | 59.0   |
| 82.5°  | 22.5  | 22.5  | 18.6  | 26.3  | 50.7  | 48.8  | 46.2  | 44.8  | 42.4  | 41.0   | 41.0   |
| 85°    | 10.2  | 12.8  | 11.6  | 16.1  | 27.5  | 28.9  | 28.9  | 27.5  | 27.0  | 25.6   | 26.3   |
| 87.5°  | 3.3   | 5.7   | 7.1   | 9.0   | 14.2  | 14.7  | 15.4  | 15.4  | 15.4  | 16.1   | 16.1   |
| 90°    | 3.0   | 5.4   | 7.7   | 8.3   | 13.1  | 19.4  | 22.6  | 20.1  | 15.0  | 11.3   | 11.3   |
| 92.5°  | 11.9  | 32.0  | 52.1  | 57.2  | 80.4  | 111.4 | 126.9 | 111.2 | 79.8  | 56.3   | 54.1   |
| 95°    | 28.5  | 65.4  | 102.3 | 111.5 | 197.9 | 313.2 | 370.8 | 330.8 | 251.0 | 191.1  | 184.4  |
| 97.5°  | 49.2  | 81.8  | 114.3 | 122.4 | 266.6 | 458.8 | 554.9 | 529.6 | 479.2 | 441.4  | 428.5  |
| 100°   | 65.2  | 94.7  | 124.2 | 131.6 | 291.5 | 504.9 | 611.5 | 613.3 | 617.0 | 619.8  | 604.4  |
| 102.5° | 78.9  | 106.4 | 133.9 | 140.8 | 303.0 | 519.4 | 627.5 | 659.7 | 723.9 | 772.1  | 758.9  |
| 105°   | 101.9 | 125.3 | 148.6 | 154.4 | 311.5 | 521.0 | 625.7 | 697.8 | 841.9 | 950.0  | 942.9  |
| 107.5° | 125.6 | 147.4 | 169.2 | 174.6 | 313.2 | 497.8 | 590.2 | 690.7 | 891.6 | 1042.4 | 1044.2 |
| 110°   | 141.7 | 161.3 | 181.0 | 185.9 | 310.8 | 477.2 | 560.5 | 672.9 | 897.6 | 1066.2 | 1073.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 112.5° | 157.4 | 176.1 | 194.8 | 199.5 | 310.9 | 459.4 | 533.6 | 648.6 | 878.6 | 1051.0 | 1062.4 |
| 115°   | 181.1 | 198.3 | 215.6 | 219.9 | 313.7 | 438.7 | 501.2 | 612.1 | 833.6 | 999.8  | 1015.5 |
| 117.5° | 204.5 | 220.2 | 235.9 | 239.8 | 319.6 | 425.8 | 479.0 | 579.0 | 778.9 | 928.9  | 946.3  |
| 120°   | 218.2 | 232.9 | 247.7 | 251.4 | 324.2 | 421.5 | 470.1 | 561.5 | 744.2 | 881.2  | 898.2  |
| 122.5° | 231.5 | 246.4 | 261.2 | 265.0 | 331.0 | 419.2 | 463.3 | 545.5 | 710.1 | 833.5  | 850.2  |
| 125°   | 252.0 | 265.5 | 279.1 | 282.5 | 340.3 | 417.4 | 455.9 | 525.8 | 665.6 | 770.4  | 785.8  |
| 127.5° | 268.6 | 282.3 | 295.9 | 299.4 | 349.5 | 416.3 | 449.7 | 509.7 | 629.7 | 719.7  | 732.7  |
| 130°   | 277.5 | 292.2 | 306.9 | 310.7 | 356.2 | 416.9 | 447.3 | 500.8 | 607.6 | 687.7  | 699.6  |
| 132.5° | 286.7 | 301.4 | 316.1 | 319.8 | 361.6 | 417.4 | 445.2 | 493.0 | 588.7 | 660.4  | 671.2  |
| 135°   | 300.2 | 313.6 | 327.1 | 330.5 | 367.6 | 417.0 | 441.7 | 481.7 | 561.9 | 621.9  | 631.2  |
| 137.5° | 314.2 | 327.5 | 340.8 | 344.1 | 376.5 | 419.6 | 441.1 | 474.9 | 542.6 | 593.4  | 601.0  |
| 140°   | 325.8 | 338.0 | 350.3 | 353.3 | 381.9 | 420.0 | 439.0 | 468.2 | 526.7 | 570.6  | 577.6  |
| 142.5° | 334.7 | 346.0 | 357.2 | 360.1 | 386.4 | 421.5 | 439.0 | 464.7 | 516.1 | 554.6  | 560.7  |
| 145°   | 348.2 | 358.2 | 368.0 | 370.5 | 392.3 | 421.5 | 436.0 | 457.1 | 499.0 | 530.6  | 535.2  |
| 147.5° | 361.9 | 371.5 | 381.1 | 383.5 | 401.0 | 424.4 | 436.0 | 452.6 | 485.7 | 510.4  | 514.2  |
| 150°   | 370.8 | 379.5 | 388.2 | 390.4 | 405.6 | 425.9 | 436.0 | 450.0 | 477.9 | 498.8  | 501.9  |
| 152.5° | 380.0 | 386.6 | 393.2 | 394.8 | 408.6 | 426.8 | 436.0 | 448.0 | 471.8 | 489.7  | 492.0  |
| 155°   | 393.7 | 398.5 | 403.3 | 404.6 | 415.1 | 429.0 | 436.0 | 445.5 | 464.4 | 478.7  | 480.2  |
| 157.5° | 403.7 | 408.5 | 413.3 | 414.4 | 421.6 | 431.2 | 436.0 | 443.4 | 458.1 | 469.2  | 470.3  |
| 160°   | 410.5 | 414.2 | 417.9 | 418.8 | 424.5 | 432.2 | 436.0 | 442.3 | 455.1 | 464.5  | 465.1  |
| 162.5° | 417.4 | 420.2 | 422.9 | 423.6 | 427.7 | 433.3 | 436.0 | 441.4 | 452.0 | 460.0  | 460.6  |
| 165°   | 424.7 | 427.2 | 429.7 | 430.4 | 432.3 | 434.8 | 436.0 | 439.8 | 447.5 | 453.2  | 453.9  |
| 167.5° | 431.5 | 432.7 | 433.9 | 434.2 | 435.8 | 437.9 | 439.0 | 441.5 | 446.5 | 450.3  | 450.6  |
| 170°   | 436.0 | 437.2 | 438.4 | 438.7 | 438.8 | 438.9 | 439.0 | 441.5 | 446.5 | 450.3  | 450.3  |
| 172.5° | 438.4 | 438.7 | 438.9 | 439.0 | 439.0 | 439.0 | 439.0 | 441.0 | 444.9 | 447.9  | 447.7  |
| 175°   | 441.7 | 441.7 | 441.7 | 441.7 | 440.8 | 439.6 | 439.0 | 440.2 | 442.7 | 444.6  | 444.6  |
| 177.5° | 441.7 | 441.7 | 441.7 | 441.7 | 441.0 | 440.0 | 439.6 | 440.5 | 442.5 | 444.1  | 443.8  |
| 180°   | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 441.7  | 441.7  |



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CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 0°     | 677.8  | 677.8  | 677.8  | 677.8  | 677.8  | 677.8 | 677.8 | 677.8 | 677.8 | 677.8 | 677.8  |
| 2.5°   | 695.2  | 693.2  | 695.2  | 693.8  | 694.5  | 692.6 | 686.8 | 684.9 | 686.8 | 688.7 | 688.7  |
| 5°     | 703.5  | 702.2  | 703.5  | 703.5  | 702.8  | 701.6 | 695.2 | 693.8 | 695.2 | 695.8 | 694.5  |
| 7.5°   | 706.1  | 704.1  | 706.1  | 704.7  | 704.7  | 703.5 | 697.1 | 695.8 | 696.4 | 698.3 | 696.4  |
| 10°    | 706.1  | 704.1  | 706.1  | 705.4  | 704.7  | 703.5 | 697.1 | 694.5 | 694.5 | 696.4 | 694.5  |
| 12.5°  | 702.8  | 701.6  | 702.8  | 701.6  | 701.6  | 700.3 | 693.8 | 691.3 | 691.9 | 692.6 | 690.0  |
| 15°    | 697.7  | 695.8  | 697.7  | 696.4  | 697.1  | 695.2 | 688.1 | 685.5 | 685.5 | 686.8 | 682.3  |
| 17.5°  | 690.0  | 687.4  | 690.0  | 689.4  | 688.7  | 687.4 | 681.0 | 678.5 | 677.8 | 678.5 | 675.3  |
| 20°    | 681.0  | 679.1  | 681.0  | 680.4  | 680.4  | 677.8 | 671.4 | 668.2 | 668.2 | 668.2 | 665.0  |
| 22.5°  | 666.9  | 665.0  | 666.9  | 668.2  | 668.2  | 667.5 | 661.8 | 657.3 | 656.0 | 656.0 | 652.2  |
| 25°    | 650.9  | 649.0  | 650.9  | 650.9  | 650.2  | 650.9 | 649.0 | 646.4 | 644.5 | 642.6 | 638.7  |
| 27.5°  | 635.5  | 634.2  | 635.5  | 634.2  | 635.5  | 633.6 | 632.9 | 632.3 | 629.7 | 627.8 | 622.7  |
| 30°    | 620.1  | 618.8  | 620.1  | 618.8  | 617.5  | 616.3 | 613.0 | 611.8 | 614.4 | 613.0 | 604.7  |
| 32.5°  | 600.9  | 599.6  | 600.9  | 600.9  | 599.6  | 599.6 | 594.5 | 592.6 | 593.2 | 597.0 | 589.3  |
| 35°    | 581.0  | 579.1  | 581.0  | 580.3  | 581.0  | 579.1 | 575.8 | 575.2 | 572.7 | 577.2 | 571.4  |
| 37.5°  | 557.9  | 556.0  | 557.9  | 557.9  | 557.9  | 559.2 | 556.6 | 554.7 | 550.9 | 556.6 | 552.1  |
| 40°    | 534.2  | 531.6  | 534.2  | 533.6  | 534.2  | 535.5 | 534.2 | 532.9 | 529.1 | 533.6 | 529.7  |
| 42.5°  | 507.3  | 506.6  | 507.3  | 507.9  | 507.9  | 510.4 | 512.4 | 509.8 | 508.5 | 505.3 | 507.9  |
| 45°    | 478.4  | 477.1  | 478.4  | 479.6  | 480.3  | 481.6 | 487.4 | 487.4 | 485.5 | 480.3 | 484.1  |
| 47.5°  | 447.6  | 444.4  | 447.6  | 451.4  | 451.4  | 453.4 | 459.2 | 463.7 | 460.4 | 454.0 | 455.9  |
| 50°    | 414.9  | 415.6  | 414.9  | 417.5  | 417.5  | 424.5 | 429.0 | 433.5 | 436.7 | 429.0 | 420.1  |
| 52.5°  | 382.9  | 382.2  | 382.9  | 384.8  | 387.4  | 390.5 | 398.3 | 402.7 | 407.8 | 403.3 | 389.3  |
| 55°    | 350.7  | 352.1  | 350.7  | 351.4  | 352.7  | 354.7 | 366.1 | 370.6 | 380.3 | 374.5 | 359.7  |
| 57.5°  | 318.7  | 316.8  | 318.7  | 320.0  | 320.6  | 322.5 | 332.2 | 340.5 | 346.3 | 346.9 | 328.9  |
| 60°    | 281.5  | 278.9  | 281.5  | 287.3  | 288.6  | 289.8 | 298.8 | 306.6 | 311.6 | 313.5 | 295.0  |
| 62.5°  | 248.8  | 244.3  | 248.8  | 252.6  | 255.2  | 258.5 | 264.9 | 276.4 | 280.8 | 281.5 | 255.2  |
| 65°    | 214.2  | 212.3  | 214.2  | 221.8  | 222.5  | 226.3 | 233.4 | 241.7 | 251.4 | 250.1 | 212.3  |
| 67.5°  | 182.7  | 182.7  | 182.7  | 187.9  | 191.7  | 193.6 | 202.6 | 206.5 | 218.7 | 219.9 | 177.0  |
| 70°    | 153.9  | 153.3  | 153.9  | 157.8  | 160.4  | 164.8 | 173.2 | 177.7 | 187.2 | 190.5 | 143.6  |
| 72.5°  | 126.3  | 125.6  | 126.3  | 129.6  | 132.1  | 136.0 | 143.0 | 148.1 | 156.4 | 160.4 | 111.6  |
| 75°    | 101.9  | 100.7  | 101.9  | 104.5  | 103.8  | 109.0 | 114.7 | 119.9 | 127.7 | 130.1 | 82.7   |
| 77.5°  | 78.2   | 78.2   | 78.2   | 80.8   | 80.8   | 86.0  | 88.5  | 94.9  | 99.4  | 103.3 | 60.9   |
| 80°    | 58.3   | 57.8   | 58.3   | 59.0   | 59.0   | 61.6  | 66.1  | 70.6  | 74.4  | 74.4  | 41.7   |
| 82.5°  | 41.0   | 39.8   | 41.0   | 41.0   | 41.0   | 42.4  | 44.8  | 46.2  | 48.8  | 50.7  | 26.3   |
| 85°    | 25.6   | 25.6   | 25.6   | 26.3   | 25.6   | 27.0  | 27.5  | 28.9  | 28.9  | 27.5  | 16.1   |
| 87.5°  | 16.6   | 16.1   | 16.6   | 16.1   | 16.1   | 15.4  | 15.4  | 15.4  | 14.7  | 14.2  | 9.0    |
| 90°    | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 15.0  | 20.1  | 22.6  | 19.4  | 13.1  | 8.3    |
| 92.5°  | 45.1   | 36.1   | 45.1   | 54.1   | 56.3   | 79.8  | 111.2 | 126.9 | 111.4 | 80.4  | 57.2   |
| 95°    | 157.3  | 130.1  | 157.3  | 184.4  | 191.1  | 251.0 | 330.8 | 370.8 | 313.2 | 197.9 | 111.5  |
| 97.5°  | 376.8  | 325.2  | 376.8  | 428.5  | 441.4  | 479.2 | 529.6 | 554.9 | 458.8 | 266.6 | 122.4  |
| 100°   | 542.9  | 481.3  | 542.9  | 604.4  | 619.8  | 617.0 | 613.3 | 611.5 | 504.9 | 291.5 | 131.6  |
| 102.5° | 706.2  | 653.6  | 706.2  | 758.9  | 772.1  | 723.9 | 659.7 | 627.5 | 519.4 | 303.0 | 140.8  |
| 105°   | 914.6  | 886.3  | 914.6  | 942.9  | 950.0  | 841.9 | 697.8 | 625.7 | 521.0 | 311.5 | 154.4  |
| 107.5° | 1051.0 | 1057.9 | 1051.0 | 1044.2 | 1042.4 | 891.6 | 690.7 | 590.2 | 497.8 | 313.2 | 174.6  |
| 110°   | 1103.1 | 1132.6 | 1103.1 | 1073.5 | 1066.2 | 897.6 | 672.9 | 560.5 | 477.2 | 310.8 | 185.9  |





TEST NUMBER: P934636

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 1107.7 | 1153.1 | 1107.7 | 1062.4 | 1051.0 | 878.6 | 648.6 | 533.6 | 459.4 | 310.9 | 199.5  |
| 115°   | 1078.4 | 1141.2 | 1078.4 | 1015.5 | 999.8  | 833.6 | 612.1 | 501.2 | 438.7 | 313.7 | 219.9  |
| 117.5° | 1016.1 | 1085.8 | 1016.1 | 946.3  | 928.9  | 778.9 | 579.0 | 479.0 | 425.8 | 319.6 | 239.8  |
| 120°   | 965.9  | 1033.5 | 965.9  | 898.2  | 881.2  | 744.2 | 561.5 | 470.1 | 421.5 | 324.2 | 251.4  |
| 122.5° | 917.0  | 983.8  | 917.0  | 850.2  | 833.5  | 710.1 | 545.5 | 463.3 | 419.2 | 331.0 | 265.0  |
| 125°   | 847.3  | 908.8  | 847.3  | 785.8  | 770.4  | 665.6 | 525.8 | 455.9 | 417.4 | 340.3 | 282.5  |
| 127.5° | 784.6  | 836.5  | 784.6  | 732.7  | 719.7  | 629.7 | 509.7 | 449.7 | 416.3 | 349.5 | 299.4  |
| 130°   | 747.6  | 795.6  | 747.6  | 699.6  | 687.7  | 607.6 | 500.8 | 447.3 | 416.9 | 356.2 | 310.7  |
| 132.5° | 714.1  | 757.0  | 714.1  | 671.2  | 660.4  | 588.7 | 493.0 | 445.2 | 417.4 | 361.6 | 319.8  |
| 135°   | 668.2  | 705.2  | 668.2  | 631.2  | 621.9  | 561.9 | 481.7 | 441.7 | 417.0 | 367.6 | 330.5  |
| 137.5° | 631.3  | 661.6  | 631.3  | 601.0  | 593.4  | 542.6 | 474.9 | 441.1 | 419.6 | 376.5 | 344.1  |
| 140°   | 606.0  | 634.3  | 606.0  | 577.6  | 570.6  | 526.7 | 468.2 | 439.0 | 420.0 | 381.9 | 353.3  |
| 142.5° | 585.0  | 609.4  | 585.0  | 560.7  | 554.6  | 516.1 | 464.7 | 439.0 | 421.5 | 386.4 | 360.1  |
| 145°   | 553.6  | 572.1  | 553.6  | 535.2  | 530.6  | 499.0 | 457.1 | 436.0 | 421.5 | 392.3 | 370.5  |
| 147.5° | 529.5  | 544.8  | 529.5  | 514.2  | 510.4  | 485.7 | 452.6 | 436.0 | 424.4 | 401.0 | 383.5  |
| 150°   | 514.3  | 526.8  | 514.3  | 501.9  | 498.8  | 477.9 | 450.0 | 436.0 | 425.9 | 405.6 | 390.4  |
| 152.5° | 501.3  | 510.7  | 501.3  | 492.0  | 489.7  | 471.8 | 448.0 | 436.0 | 426.8 | 408.6 | 394.8  |
| 155°   | 486.4  | 492.6  | 486.4  | 480.2  | 478.7  | 464.4 | 445.5 | 436.0 | 429.0 | 415.1 | 404.6  |
| 157.5° | 474.7  | 479.0  | 474.7  | 470.3  | 469.2  | 458.1 | 443.4 | 436.0 | 431.2 | 421.6 | 414.4  |
| 160°   | 467.6  | 470.1  | 467.6  | 465.1  | 464.5  | 455.1 | 442.3 | 436.0 | 432.2 | 424.5 | 418.8  |
| 162.5° | 463.0  | 465.4  | 463.0  | 460.6  | 460.0  | 452.0 | 441.4 | 436.0 | 433.3 | 427.7 | 423.6  |
| 165°   | 456.4  | 458.9  | 456.4  | 453.9  | 453.2  | 447.5 | 439.8 | 436.0 | 434.8 | 432.3 | 430.4  |
| 167.5° | 451.6  | 452.7  | 451.6  | 450.6  | 450.3  | 446.5 | 441.5 | 439.0 | 437.9 | 435.8 | 434.2  |
| 170°   | 450.3  | 450.3  | 450.3  | 450.3  | 450.3  | 446.5 | 441.5 | 439.0 | 438.9 | 438.8 | 438.7  |
| 172.5° | 446.7  | 445.8  | 446.7  | 447.7  | 447.9  | 444.9 | 441.0 | 439.0 | 439.0 | 439.0 | 439.0  |
| 175°   | 444.6  | 444.6  | 444.6  | 444.6  | 444.6  | 442.7 | 440.2 | 439.0 | 439.6 | 440.8 | 441.7  |
| 177.5° | 442.7  | 441.7  | 442.7  | 443.8  | 444.1  | 442.5 | 440.5 | 439.6 | 440.0 | 441.0 | 441.7  |
| 180°   | 441.7  | 441.7  | 441.7  | 441.7  | 441.7  | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 441.7  |



TEST NUMBER: P934636

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°     | 677.8 | 677.8 | 677.8 | 677.8 | 677.8 | 677.8  | 677.8 | 677.8 | 677.8 | 677.8 | 677.8 |
| 2.5°   | 687.4 | 683.6 | 683.6 | 677.2 | 674.6 | 672.7  | 669.5 | 659.9 | 657.3 | 654.7 | 658.6 |
| 5°     | 693.2 | 686.2 | 681.0 | 669.5 | 659.9 | 656.0  | 643.8 | 620.8 | 605.4 | 593.8 | 587.4 |
| 7.5°   | 694.5 | 685.5 | 675.9 | 658.0 | 634.8 | 624.6  | 587.4 | 545.1 | 533.6 | 523.3 | 516.8 |
| 10°    | 693.2 | 682.9 | 669.5 | 642.6 | 588.1 | 570.1  | 532.9 | 505.3 | 498.3 | 496.4 | 498.3 |
| 12.5°  | 688.7 | 679.1 | 660.5 | 615.6 | 539.3 | 527.1  | 505.3 | 489.3 | 488.0 | 491.2 | 508.5 |
| 15°    | 681.0 | 672.0 | 650.2 | 579.7 | 512.4 | 503.4  | 488.0 | 482.2 | 489.3 | 511.8 | 563.7 |
| 17.5°  | 673.4 | 663.1 | 636.2 | 544.5 | 491.9 | 485.5  | 474.6 | 486.1 | 525.8 | 556.0 | 573.3 |
| 20°    | 663.1 | 650.9 | 620.1 | 518.8 | 477.1 | 471.3  | 466.2 | 518.2 | 548.3 | 559.2 | 568.8 |
| 22.5°  | 650.9 | 638.1 | 598.3 | 500.9 | 461.7 | 457.3  | 460.4 | 536.1 | 548.3 | 556.0 | 564.3 |
| 25°    | 634.8 | 623.9 | 572.7 | 486.7 | 449.5 | 444.4  | 456.6 | 534.2 | 541.2 | 543.1 | 559.9 |
| 27.5°  | 620.1 | 606.0 | 545.7 | 473.9 | 434.8 | 432.9  | 459.8 | 525.8 | 531.0 | 532.9 | 550.9 |
| 30°    | 602.1 | 581.0 | 515.6 | 460.4 | 419.4 | 418.7  | 460.4 | 515.6 | 514.3 | 519.4 | 537.4 |
| 32.5°  | 583.6 | 543.8 | 481.6 | 443.8 | 404.7 | 404.0  | 455.9 | 500.2 | 498.9 | 505.9 | 519.4 |
| 35°    | 566.3 | 514.9 | 435.5 | 424.5 | 386.0 | 386.7  | 445.0 | 482.2 | 482.9 | 489.3 | 497.6 |
| 37.5°  | 548.3 | 490.0 | 384.8 | 403.3 | 368.1 | 368.1  | 430.3 | 465.6 | 464.3 | 466.2 | 477.7 |
| 40°    | 527.1 | 450.8 | 339.8 | 375.8 | 351.4 | 349.5  | 412.3 | 447.6 | 443.1 | 442.5 | 458.5 |
| 42.5°  | 504.7 | 407.8 | 306.6 | 339.3 | 332.2 | 329.6  | 390.5 | 425.8 | 417.5 | 419.4 | 439.9 |
| 45°    | 480.3 | 396.3 | 280.8 | 286.7 | 312.3 | 310.4  | 366.8 | 400.8 | 395.0 | 400.2 | 421.3 |
| 47.5°  | 455.9 | 373.2 | 272.5 | 237.9 | 291.2 | 290.5  | 340.5 | 376.5 | 373.2 | 378.4 | 400.8 |
| 50°    | 422.6 | 347.6 | 271.9 | 204.0 | 267.4 | 269.9  | 309.1 | 352.7 | 352.7 | 357.2 | 380.9 |
| 52.5°  | 379.6 | 316.1 | 246.9 | 184.6 | 239.8 | 247.6  | 281.5 | 332.2 | 333.4 | 337.9 | 359.1 |
| 55°    | 340.5 | 283.4 | 228.9 | 169.9 | 207.1 | 223.8  | 254.5 | 311.0 | 313.5 | 318.0 | 337.3 |
| 57.5°  | 304.6 | 236.0 | 225.1 | 152.6 | 177.0 | 193.1  | 230.8 | 290.5 | 291.7 | 295.7 | 314.2 |
| 60°    | 266.1 | 170.6 | 206.5 | 134.1 | 150.7 | 162.8  | 209.0 | 266.1 | 270.6 | 273.2 | 289.2 |
| 62.5°  | 222.5 | 123.7 | 187.2 | 121.2 | 137.9 | 140.5  | 191.1 | 243.1 | 248.8 | 250.7 | 260.4 |
| 65°    | 158.4 | 103.8 | 159.0 | 110.3 | 124.4 | 125.1  | 171.8 | 219.4 | 224.4 | 227.7 | 234.7 |
| 67.5°  | 107.1 | 84.6  | 121.2 | 100.0 | 114.2 | 114.7  | 153.3 | 191.7 | 198.8 | 201.4 | 205.9 |
| 70°    | 74.4  | 56.4  | 89.8  | 89.1  | 102.6 | 103.8  | 133.4 | 166.8 | 173.2 | 175.1 | 177.7 |
| 72.5°  | 54.5  | 45.5  | 74.4  | 80.1  | 90.5  | 91.7   | 112.8 | 138.6 | 145.0 | 146.9 | 148.1 |
| 75°    | 41.7  | 48.1  | 60.2  | 69.9  | 77.0  | 77.5   | 92.4  | 112.8 | 117.3 | 118.7 | 119.2 |
| 77.5°  | 33.4  | 44.8  | 44.3  | 56.4  | 62.8  | 61.6   | 72.5  | 87.2  | 91.0  | 91.0  | 91.0  |
| 80°    | 25.1  | 35.3  | 33.4  | 40.4  | 46.2  | 44.8   | 51.9  | 62.2  | 63.5  | 64.7  | 64.2  |
| 82.5°  | 18.6  | 22.5  | 22.5  | 25.6  | 30.8  | 29.5   | 34.6  | 40.4  | 40.4  | 40.4  | 41.7  |
| 85°    | 11.6  | 12.8  | 10.2  | 13.5  | 17.3  | 16.6   | 19.2  | 21.8  | 22.5  | 22.5  | 21.1  |
| 87.5°  | 7.1   | 5.7   | 3.3   | 5.2   | 7.6   | 7.6    | 9.0   | 9.7   | 9.0   | 9.0   | 9.0   |
| 90°    | 7.7   | 5.4   | 3.0   | 5.4   | 7.7   | 8.3    | 13.1  | 19.4  | 22.6  | 20.1  | 15.0  |
| 92.5°  | 52.1  | 32.0  | 11.9  | 32.0  | 52.1  | 57.2   | 80.4  | 111.4 | 126.9 | 111.2 | 79.8  |
| 95°    | 102.3 | 65.4  | 28.5  | 65.4  | 102.3 | 111.5  | 197.9 | 313.2 | 370.8 | 330.8 | 251.0 |
| 97.5°  | 114.3 | 81.8  | 49.2  | 81.8  | 114.3 | 122.4  | 266.6 | 458.8 | 554.9 | 529.6 | 479.2 |
| 100°   | 124.2 | 94.7  | 65.2  | 94.7  | 124.2 | 131.6  | 291.5 | 504.9 | 611.5 | 613.3 | 617.0 |
| 102.5° | 133.9 | 106.4 | 78.9  | 106.4 | 133.9 | 140.8  | 303.0 | 519.4 | 627.5 | 659.7 | 723.9 |
| 105°   | 148.6 | 125.3 | 101.9 | 125.3 | 148.6 | 154.4  | 311.5 | 521.0 | 625.7 | 697.8 | 841.9 |
| 107.5° | 169.2 | 147.4 | 125.6 | 147.4 | 169.2 | 174.6  | 313.2 | 497.8 | 590.2 | 690.7 | 891.6 |
| 110°   | 181.0 | 161.3 | 141.7 | 161.3 | 181.0 | 185.9  | 310.8 | 477.2 | 560.5 | 672.9 | 897.6 |



TEST NUMBER: P934636

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 194.8 | 176.1 | 157.4 | 176.1 | 194.8 | 199.5  | 310.9 | 459.4 | 533.6 | 648.6 | 878.6 |
| 115°   | 215.6 | 198.3 | 181.1 | 198.3 | 215.6 | 219.9  | 313.7 | 438.7 | 501.2 | 612.1 | 833.6 |
| 117.5° | 235.9 | 220.2 | 204.5 | 220.2 | 235.9 | 239.8  | 319.6 | 425.8 | 479.0 | 579.0 | 778.9 |
| 120°   | 247.7 | 232.9 | 218.2 | 232.9 | 247.7 | 251.4  | 324.2 | 421.5 | 470.1 | 561.5 | 744.2 |
| 122.5° | 261.2 | 246.4 | 231.5 | 246.4 | 261.2 | 265.0  | 331.0 | 419.2 | 463.3 | 545.5 | 710.1 |
| 125°   | 279.1 | 265.5 | 252.0 | 265.5 | 279.1 | 282.5  | 340.3 | 417.4 | 455.9 | 525.8 | 665.6 |
| 127.5° | 295.9 | 282.3 | 268.6 | 282.3 | 295.9 | 299.4  | 349.5 | 416.3 | 449.7 | 509.7 | 629.7 |
| 130°   | 306.9 | 292.2 | 277.5 | 292.2 | 306.9 | 310.7  | 356.2 | 416.9 | 447.3 | 500.8 | 607.6 |
| 132.5° | 316.1 | 301.4 | 286.7 | 301.4 | 316.1 | 319.8  | 361.6 | 417.4 | 445.2 | 493.0 | 588.7 |
| 135°   | 327.1 | 313.6 | 300.2 | 313.6 | 327.1 | 330.5  | 367.6 | 417.0 | 441.7 | 481.7 | 561.9 |
| 137.5° | 340.8 | 327.5 | 314.2 | 327.5 | 340.8 | 344.1  | 376.5 | 419.6 | 441.1 | 474.9 | 542.6 |
| 140°   | 350.3 | 338.0 | 325.8 | 338.0 | 350.3 | 353.3  | 381.9 | 420.0 | 439.0 | 468.2 | 526.7 |
| 142.5° | 357.2 | 346.0 | 334.7 | 346.0 | 357.2 | 360.1  | 386.4 | 421.5 | 439.0 | 464.7 | 516.1 |
| 145°   | 368.0 | 358.2 | 348.2 | 358.2 | 368.0 | 370.5  | 392.3 | 421.5 | 436.0 | 457.1 | 499.0 |
| 147.5° | 381.1 | 371.5 | 361.9 | 371.5 | 381.1 | 383.5  | 401.0 | 424.4 | 436.0 | 452.6 | 485.7 |
| 150°   | 388.2 | 379.5 | 370.8 | 379.5 | 388.2 | 390.4  | 405.6 | 425.9 | 436.0 | 450.0 | 477.9 |
| 152.5° | 393.2 | 386.6 | 380.0 | 386.6 | 393.2 | 394.8  | 408.6 | 426.8 | 436.0 | 448.0 | 471.8 |
| 155°   | 403.3 | 398.5 | 393.7 | 398.5 | 403.3 | 404.6  | 415.1 | 429.0 | 436.0 | 445.5 | 464.4 |
| 157.5° | 413.3 | 408.5 | 403.7 | 408.5 | 413.3 | 414.4  | 421.6 | 431.2 | 436.0 | 443.4 | 458.1 |
| 160°   | 417.9 | 414.2 | 410.5 | 414.2 | 417.9 | 418.8  | 424.5 | 432.2 | 436.0 | 442.3 | 455.1 |
| 162.5° | 422.9 | 420.2 | 417.4 | 420.2 | 422.9 | 423.6  | 427.7 | 433.3 | 436.0 | 441.4 | 452.0 |
| 165°   | 429.7 | 427.2 | 424.7 | 427.2 | 429.7 | 430.4  | 432.3 | 434.8 | 436.0 | 439.8 | 447.5 |
| 167.5° | 433.9 | 432.7 | 431.5 | 432.7 | 433.9 | 434.2  | 435.8 | 437.9 | 439.0 | 441.5 | 446.5 |
| 170°   | 438.4 | 437.2 | 436.0 | 437.2 | 438.4 | 438.7  | 438.8 | 438.9 | 439.0 | 441.5 | 446.5 |
| 172.5° | 438.9 | 438.7 | 438.4 | 438.7 | 438.9 | 439.0  | 439.0 | 439.0 | 439.0 | 441.0 | 444.9 |
| 175°   | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 441.7  | 440.8 | 439.6 | 439.0 | 440.2 | 442.7 |
| 177.5° | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 441.7  | 441.0 | 440.0 | 439.6 | 440.5 | 442.5 |
| 180°   | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 441.7  | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 |



TEST NUMBER: P934636

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°     | 677.8  | 677.8  | 677.8  | 677.8  | 677.8  | 677.8  | 677.8  | 677.8 | 677.8 | 677.8 | 677.8 |
| 2.5°   | 654.1  | 652.2  | 654.7  | 647.7  | 654.7  | 652.2  | 654.1  | 658.6 | 654.7 | 657.3 | 659.9 |
| 5°     | 573.9  | 570.8  | 560.5  | 552.1  | 560.5  | 570.8  | 573.9  | 587.4 | 593.8 | 605.4 | 620.8 |
| 7.5°   | 513.0  | 510.4  | 507.9  | 502.8  | 507.9  | 510.4  | 513.0  | 516.8 | 523.3 | 533.6 | 545.1 |
| 10°    | 499.5  | 500.2  | 504.0  | 503.4  | 504.0  | 500.2  | 499.5  | 498.3 | 496.4 | 498.3 | 505.3 |
| 12.5°  | 534.2  | 540.0  | 561.1  | 559.9  | 561.1  | 540.0  | 534.2  | 508.5 | 491.2 | 488.0 | 489.3 |
| 15°    | 573.9  | 575.8  | 580.3  | 581.0  | 580.3  | 575.8  | 573.9  | 563.7 | 511.8 | 489.3 | 482.2 |
| 17.5°  | 577.8  | 578.4  | 581.7  | 581.7  | 581.7  | 578.4  | 577.8  | 573.3 | 556.0 | 525.8 | 486.1 |
| 20°    | 574.6  | 575.8  | 582.3  | 583.6  | 582.3  | 575.8  | 574.6  | 568.8 | 559.2 | 548.3 | 518.2 |
| 22.5°  | 573.3  | 575.8  | 581.0  | 580.3  | 581.0  | 575.8  | 573.3  | 564.3 | 556.0 | 548.3 | 536.1 |
| 25°    | 566.9  | 566.9  | 567.5  | 568.2  | 567.5  | 566.9  | 566.9  | 559.9 | 543.1 | 541.2 | 534.2 |
| 27.5°  | 553.4  | 554.7  | 558.5  | 557.9  | 558.5  | 554.7  | 553.4  | 550.9 | 532.9 | 531.0 | 525.8 |
| 30°    | 541.2  | 540.0  | 536.7  | 534.2  | 536.7  | 540.0  | 541.2  | 537.4 | 519.4 | 514.3 | 515.6 |
| 32.5°  | 520.7  | 517.5  | 514.3  | 512.4  | 514.3  | 517.5  | 520.7  | 519.4 | 505.9 | 498.9 | 500.2 |
| 35°    | 496.4  | 497.0  | 496.4  | 494.4  | 496.4  | 497.0  | 496.4  | 497.6 | 489.3 | 482.9 | 482.2 |
| 37.5°  | 479.1  | 480.3  | 479.6  | 477.1  | 479.6  | 480.3  | 479.1  | 477.7 | 466.2 | 464.3 | 465.6 |
| 40°    | 461.1  | 461.7  | 461.1  | 459.2  | 461.1  | 461.7  | 461.1  | 458.5 | 442.5 | 443.1 | 447.6 |
| 42.5°  | 443.8  | 443.1  | 441.2  | 439.9  | 441.2  | 443.1  | 443.8  | 439.9 | 419.4 | 417.5 | 425.8 |
| 45°    | 423.9  | 424.5  | 420.6  | 418.7  | 420.6  | 424.5  | 423.9  | 421.3 | 400.2 | 395.0 | 400.8 |
| 47.5°  | 404.0  | 404.0  | 400.8  | 398.8  | 400.8  | 404.0  | 404.0  | 400.8 | 378.4 | 373.2 | 376.5 |
| 50°    | 382.9  | 382.2  | 377.7  | 377.0  | 377.7  | 382.2  | 382.9  | 380.9 | 357.2 | 352.7 | 352.7 |
| 52.5°  | 358.5  | 358.5  | 359.1  | 360.4  | 359.1  | 358.5  | 358.5  | 359.1 | 337.9 | 333.4 | 332.2 |
| 55°    | 337.3  | 337.9  | 342.4  | 343.8  | 342.4  | 337.9  | 337.3  | 337.3 | 318.0 | 313.5 | 311.0 |
| 57.5°  | 315.5  | 315.5  | 318.7  | 318.7  | 318.7  | 315.5  | 315.5  | 314.2 | 295.7 | 291.7 | 290.5 |
| 60°    | 290.5  | 291.7  | 294.3  | 293.7  | 294.3  | 291.7  | 290.5  | 289.2 | 273.2 | 270.6 | 266.1 |
| 62.5°  | 264.2  | 265.5  | 266.1  | 264.9  | 266.1  | 265.5  | 264.2  | 260.4 | 250.7 | 248.8 | 243.1 |
| 65°    | 236.7  | 237.9  | 238.6  | 237.2  | 238.6  | 237.9  | 236.7  | 234.7 | 227.7 | 224.4 | 219.4 |
| 67.5°  | 208.5  | 207.8  | 207.1  | 209.7  | 207.1  | 207.8  | 208.5  | 205.9 | 201.4 | 198.8 | 191.7 |
| 70°    | 179.6  | 179.6  | 178.9  | 180.2  | 178.9  | 179.6  | 179.6  | 177.7 | 175.1 | 173.2 | 166.8 |
| 72.5°  | 148.8  | 148.1  | 150.7  | 148.8  | 150.7  | 148.1  | 148.8  | 148.1 | 146.9 | 145.0 | 138.6 |
| 75°    | 118.7  | 119.9  | 118.7  | 120.6  | 118.7  | 119.9  | 118.7  | 119.2 | 118.7 | 117.3 | 112.8 |
| 77.5°  | 90.5   | 91.7   | 90.5   | 90.5   | 90.5   | 91.7   | 90.5   | 91.0  | 91.0  | 91.0  | 87.2  |
| 80°    | 64.2   | 63.5   | 63.5   | 62.8   | 63.5   | 63.5   | 64.2   | 64.2  | 64.7  | 63.5  | 62.2  |
| 82.5°  | 41.0   | 40.4   | 40.4   | 41.7   | 40.4   | 40.4   | 41.0   | 41.7  | 40.4  | 40.4  | 40.4  |
| 85°    | 22.5   | 23.0   | 21.8   | 21.8   | 21.8   | 23.0   | 22.5   | 21.1  | 22.5  | 22.5  | 21.8  |
| 87.5°  | 8.3    | 7.6    | 7.6    | 7.6    | 7.6    | 7.6    | 8.3    | 9.0   | 9.0   | 9.0   | 9.7   |
| 90°    | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 15.0  | 20.1  | 22.6  | 19.4  |
| 92.5°  | 56.3   | 54.1   | 45.1   | 36.1   | 45.1   | 54.1   | 56.3   | 79.8  | 111.2 | 126.9 | 111.4 |
| 95°    | 191.1  | 184.4  | 157.3  | 130.1  | 157.3  | 184.4  | 191.1  | 251.0 | 330.8 | 370.8 | 313.2 |
| 97.5°  | 441.4  | 428.5  | 376.8  | 325.2  | 376.8  | 428.5  | 441.4  | 479.2 | 529.6 | 554.9 | 458.8 |
| 100°   | 619.8  | 604.4  | 542.9  | 481.3  | 542.9  | 604.4  | 619.8  | 617.0 | 613.3 | 611.5 | 504.9 |
| 102.5° | 772.1  | 758.9  | 706.2  | 653.6  | 706.2  | 758.9  | 772.1  | 723.9 | 659.7 | 627.5 | 519.4 |
| 105°   | 950.0  | 942.9  | 914.6  | 886.3  | 914.6  | 942.9  | 950.0  | 841.9 | 697.8 | 625.7 | 521.0 |
| 107.5° | 1042.4 | 1044.2 | 1051.0 | 1057.9 | 1051.0 | 1044.2 | 1042.4 | 891.6 | 690.7 | 590.2 | 497.8 |
| 110°   | 1066.2 | 1073.5 | 1103.1 | 1132.6 | 1103.1 | 1073.5 | 1066.2 | 897.6 | 672.9 | 560.5 | 477.2 |



TEST NUMBER: P934636

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 112.5° | 1051.0 | 1062.4 | 1107.7 | 1153.1 | 1107.7 | 1062.4 | 1051.0 | 878.6 | 648.6 | 533.6 | 459.4 |
| 115°   | 999.8  | 1015.5 | 1078.4 | 1141.2 | 1078.4 | 1015.5 | 999.8  | 833.6 | 612.1 | 501.2 | 438.7 |
| 117.5° | 928.9  | 946.3  | 1016.1 | 1085.8 | 1016.1 | 946.3  | 928.9  | 778.9 | 579.0 | 479.0 | 425.8 |
| 120°   | 881.2  | 898.2  | 965.9  | 1033.5 | 965.9  | 898.2  | 881.2  | 744.2 | 561.5 | 470.1 | 421.5 |
| 122.5° | 833.5  | 850.2  | 917.0  | 983.8  | 917.0  | 850.2  | 833.5  | 710.1 | 545.5 | 463.3 | 419.2 |
| 125°   | 770.4  | 785.8  | 847.3  | 908.8  | 847.3  | 785.8  | 770.4  | 665.6 | 525.8 | 455.9 | 417.4 |
| 127.5° | 719.7  | 732.7  | 784.6  | 836.5  | 784.6  | 732.7  | 719.7  | 629.7 | 509.7 | 449.7 | 416.3 |
| 130°   | 687.7  | 699.6  | 747.6  | 795.6  | 747.6  | 699.6  | 687.7  | 607.6 | 500.8 | 447.3 | 416.9 |
| 132.5° | 660.4  | 671.2  | 714.1  | 757.0  | 714.1  | 671.2  | 660.4  | 588.7 | 493.0 | 445.2 | 417.4 |
| 135°   | 621.9  | 631.2  | 668.2  | 705.2  | 668.2  | 631.2  | 621.9  | 561.9 | 481.7 | 441.7 | 417.0 |
| 137.5° | 593.4  | 601.0  | 631.3  | 661.6  | 631.3  | 601.0  | 593.4  | 542.6 | 474.9 | 441.1 | 419.6 |
| 140°   | 570.6  | 577.6  | 606.0  | 634.3  | 606.0  | 577.6  | 570.6  | 526.7 | 468.2 | 439.0 | 420.0 |
| 142.5° | 554.6  | 560.7  | 585.0  | 609.4  | 585.0  | 560.7  | 554.6  | 516.1 | 464.7 | 439.0 | 421.5 |
| 145°   | 530.6  | 535.2  | 553.6  | 572.1  | 553.6  | 535.2  | 530.6  | 499.0 | 457.1 | 436.0 | 421.5 |
| 147.5° | 510.4  | 514.2  | 529.5  | 544.8  | 529.5  | 514.2  | 510.4  | 485.7 | 452.6 | 436.0 | 424.4 |
| 150°   | 498.8  | 501.9  | 514.3  | 526.8  | 514.3  | 501.9  | 498.8  | 477.9 | 450.0 | 436.0 | 425.9 |
| 152.5° | 489.7  | 492.0  | 501.3  | 510.7  | 501.3  | 492.0  | 489.7  | 471.8 | 448.0 | 436.0 | 426.8 |
| 155°   | 478.7  | 480.2  | 486.4  | 492.6  | 486.4  | 480.2  | 478.7  | 464.4 | 445.5 | 436.0 | 429.0 |
| 157.5° | 469.2  | 470.3  | 474.7  | 479.0  | 474.7  | 470.3  | 469.2  | 458.1 | 443.4 | 436.0 | 431.2 |
| 160°   | 464.5  | 465.1  | 467.6  | 470.1  | 467.6  | 465.1  | 464.5  | 455.1 | 442.3 | 436.0 | 432.2 |
| 162.5° | 460.0  | 460.6  | 463.0  | 465.4  | 463.0  | 460.6  | 460.0  | 452.0 | 441.4 | 436.0 | 433.3 |
| 165°   | 453.2  | 453.9  | 456.4  | 458.9  | 456.4  | 453.9  | 453.2  | 447.5 | 439.8 | 436.0 | 434.8 |
| 167.5° | 450.3  | 450.6  | 451.6  | 452.7  | 451.6  | 450.6  | 450.3  | 446.5 | 441.5 | 439.0 | 437.9 |
| 170°   | 450.3  | 450.3  | 450.3  | 450.3  | 450.3  | 450.3  | 450.3  | 446.5 | 441.5 | 439.0 | 438.9 |
| 172.5° | 447.9  | 447.7  | 446.7  | 445.8  | 446.7  | 447.7  | 447.9  | 444.9 | 441.0 | 439.0 | 439.0 |
| 175°   | 444.6  | 444.6  | 444.6  | 444.6  | 444.6  | 444.6  | 444.6  | 442.7 | 440.2 | 439.0 | 439.6 |
| 177.5° | 444.1  | 443.8  | 442.7  | 441.7  | 442.7  | 443.8  | 444.1  | 442.5 | 440.5 | 439.6 | 440.0 |
| 180°   | 441.7  | 441.7  | 441.7  | 441.7  | 441.7  | 441.7  | 441.7  | 441.7 | 441.7 | 441.7 | 441.7 |



TEST NUMBER: P934636

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 0°     | 677.8 | 677.8  | 677.8 | 677.8 | 677.8 |
| 2.5°   | 669.5 | 672.7  | 674.6 | 677.2 | 683.6 |
| 5°     | 643.8 | 656.0  | 659.9 | 669.5 | 681.0 |
| 7.5°   | 587.4 | 624.6  | 634.8 | 658.0 | 675.9 |
| 10°    | 532.9 | 570.1  | 588.1 | 642.6 | 669.5 |
| 12.5°  | 505.3 | 527.1  | 539.3 | 615.6 | 660.5 |
| 15°    | 488.0 | 503.4  | 512.4 | 579.7 | 650.2 |
| 17.5°  | 474.6 | 485.5  | 491.9 | 544.5 | 636.2 |
| 20°    | 466.2 | 471.3  | 477.1 | 518.8 | 620.1 |
| 22.5°  | 460.4 | 457.3  | 461.7 | 500.9 | 598.3 |
| 25°    | 456.6 | 444.4  | 449.5 | 486.7 | 572.7 |
| 27.5°  | 459.8 | 432.9  | 434.8 | 473.9 | 545.7 |
| 30°    | 460.4 | 418.7  | 419.4 | 460.4 | 515.6 |
| 32.5°  | 455.9 | 404.0  | 404.7 | 443.8 | 481.6 |
| 35°    | 445.0 | 386.7  | 386.0 | 424.5 | 435.5 |
| 37.5°  | 430.3 | 368.1  | 368.1 | 403.3 | 384.8 |
| 40°    | 412.3 | 349.5  | 351.4 | 375.8 | 339.8 |
| 42.5°  | 390.5 | 329.6  | 332.2 | 339.3 | 306.6 |
| 45°    | 366.8 | 310.4  | 312.3 | 286.7 | 280.8 |
| 47.5°  | 340.5 | 290.5  | 291.2 | 237.9 | 272.5 |
| 50°    | 309.1 | 269.9  | 267.4 | 204.0 | 271.9 |
| 52.5°  | 281.5 | 247.6  | 239.8 | 184.6 | 246.9 |
| 55°    | 254.5 | 223.8  | 207.1 | 169.9 | 228.9 |
| 57.5°  | 230.8 | 193.1  | 177.0 | 152.6 | 225.1 |
| 60°    | 209.0 | 162.8  | 150.7 | 134.1 | 206.5 |
| 62.5°  | 191.1 | 140.5  | 137.9 | 121.2 | 187.2 |
| 65°    | 171.8 | 125.1  | 124.4 | 110.3 | 159.0 |
| 67.5°  | 153.3 | 114.7  | 114.2 | 100.0 | 121.2 |
| 70°    | 133.4 | 103.8  | 102.6 | 89.1  | 89.8  |
| 72.5°  | 112.8 | 91.7   | 90.5  | 80.1  | 74.4  |
| 75°    | 92.4  | 77.5   | 77.0  | 69.9  | 60.2  |
| 77.5°  | 72.5  | 61.6   | 62.8  | 56.4  | 44.3  |
| 80°    | 51.9  | 44.8   | 46.2  | 40.4  | 33.4  |
| 82.5°  | 34.6  | 29.5   | 30.8  | 25.6  | 22.5  |
| 85°    | 19.2  | 16.6   | 17.3  | 13.5  | 10.2  |
| 87.5°  | 9.0   | 7.6    | 7.6   | 5.2   | 3.3   |
| 90°    | 13.1  | 8.3    | 7.7   | 5.4   | 3.0   |
| 92.5°  | 80.4  | 57.2   | 52.1  | 32.0  | 11.9  |
| 95°    | 197.9 | 111.5  | 102.3 | 65.4  | 28.5  |
| 97.5°  | 266.6 | 122.4  | 114.3 | 81.8  | 49.2  |
| 100°   | 291.5 | 131.6  | 124.2 | 94.7  | 65.2  |
| 102.5° | 303.0 | 140.8  | 133.9 | 106.4 | 78.9  |
| 105°   | 311.5 | 154.4  | 148.6 | 125.3 | 101.9 |
| 107.5° | 313.2 | 174.6  | 169.2 | 147.4 | 125.6 |
| 110°   | 310.8 | 185.9  | 181.0 | 161.3 | 141.7 |



TEST NUMBER: P934636

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 310.9 | 199.5  | 194.8 | 176.1 | 157.4 |
| 115°   | 313.7 | 219.9  | 215.6 | 198.3 | 181.1 |
| 117.5° | 319.6 | 239.8  | 235.9 | 220.2 | 204.5 |
| 120°   | 324.2 | 251.4  | 247.7 | 232.9 | 218.2 |
| 122.5° | 331.0 | 265.0  | 261.2 | 246.4 | 231.5 |
| 125°   | 340.3 | 282.5  | 279.1 | 265.5 | 252.0 |
| 127.5° | 349.5 | 299.4  | 295.9 | 282.3 | 268.6 |
| 130°   | 356.2 | 310.7  | 306.9 | 292.2 | 277.5 |
| 132.5° | 361.6 | 319.8  | 316.1 | 301.4 | 286.7 |
| 135°   | 367.6 | 330.5  | 327.1 | 313.6 | 300.2 |
| 137.5° | 376.5 | 344.1  | 340.8 | 327.5 | 314.2 |
| 140°   | 381.9 | 353.3  | 350.3 | 338.0 | 325.8 |
| 142.5° | 386.4 | 360.1  | 357.2 | 346.0 | 334.7 |
| 145°   | 392.3 | 370.5  | 368.0 | 358.2 | 348.2 |
| 147.5° | 401.0 | 383.5  | 381.1 | 371.5 | 361.9 |
| 150°   | 405.6 | 390.4  | 388.2 | 379.5 | 370.8 |
| 152.5° | 408.6 | 394.8  | 393.2 | 386.6 | 380.0 |
| 155°   | 415.1 | 404.6  | 403.3 | 398.5 | 393.7 |
| 157.5° | 421.6 | 414.4  | 413.3 | 408.5 | 403.7 |
| 160°   | 424.5 | 418.8  | 417.9 | 414.2 | 410.5 |
| 162.5° | 427.7 | 423.6  | 422.9 | 420.2 | 417.4 |
| 165°   | 432.3 | 430.4  | 429.7 | 427.2 | 424.7 |
| 167.5° | 435.8 | 434.2  | 433.9 | 432.7 | 431.5 |
| 170°   | 438.8 | 438.7  | 438.4 | 437.2 | 436.0 |
| 172.5° | 439.0 | 439.0  | 438.9 | 438.7 | 438.4 |
| 175°   | 440.8 | 441.7  | 441.7 | 441.7 | 441.7 |
| 177.5° | 441.0 | 441.7  | 441.7 | 441.7 | 441.7 |
| 180°   | 441.7 | 441.7  | 441.7 | 441.7 | 441.7 |



TEST NUMBER: P934636  
 CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-6500K

**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 | 9.97             | 10.73 | 11.02 | 11.79 | 13.22 | 12.76          | 13.53 | 13.82 | 14.58 | 16.02 |
|                 | 3H   | 10.44            | 11.12 | 11.50 | 12.19 | 13.64 | 14.09          | 14.77 | 15.15 | 15.84 | 17.29 |
|                 | 4H   | 10.62            | 11.27 | 11.70 | 12.34 | 13.80 | 14.52          | 15.17 | 15.60 | 16.24 | 17.70 |
|                 | 6H   | 10.74            | 11.33 | 11.82 | 12.40 | 13.87 | 14.80          | 15.39 | 15.88 | 16.46 | 17.93 |
|                 | 8H   | 10.73            | 11.30 | 11.82 | 12.39 | 13.85 | 14.86          | 15.43 | 15.95 | 16.52 | 17.98 |
|                 | 12H  | 10.70            | 11.24 | 11.80 | 12.32 | 13.81 | 14.89          | 15.43 | 15.99 | 16.51 | 18.00 |
| 4H              | 2H   | 10.98            | 11.63 | 12.06 | 12.69 | 14.15 | 13.16          | 13.81 | 14.24 | 14.88 | 16.34 |
|                 | 3H   | 12.00            | 12.54 | 13.08 | 13.63 | 15.10 | 14.65          | 15.19 | 15.74 | 16.28 | 17.75 |
|                 | 4H   | 12.27            | 12.76 | 13.36 | 13.85 | 15.34 | 15.17          | 15.66 | 16.26 | 16.75 | 18.24 |
|                 | 6H   | 12.39            | 12.81 | 13.49 | 13.92 | 15.41 | 15.52          | 15.94 | 16.62 | 17.05 | 18.54 |
|                 | 8H   | 12.39            | 12.79 | 13.49 | 13.89 | 15.39 | 15.62          | 16.01 | 16.72 | 17.11 | 18.62 |
|                 | 12H  | 12.35            | 12.71 | 13.47 | 13.83 | 15.33 | 15.66          | 16.02 | 16.78 | 17.14 | 18.64 |
| 8H              | 4H   | 12.71            | 13.11 | 13.81 | 14.21 | 15.71 | 15.28          | 15.68 | 16.39 | 16.78 | 18.28 |
|                 | 6H   | 12.97            | 13.29 | 14.09 | 14.44 | 15.93 | 15.71          | 16.03 | 16.83 | 17.18 | 18.68 |
|                 | 8H   | 13.01            | 13.29 | 14.14 | 14.42 | 15.94 | 15.85          | 16.14 | 16.98 | 17.26 | 18.78 |
|                 | 12H  | 12.99            | 13.24 | 14.12 | 14.36 | 15.91 | 15.94          | 16.19 | 17.08 | 17.31 | 18.87 |
| 12H             | 4H   | 12.71            | 13.07 | 13.83 | 14.18 | 15.69 | 15.24          | 15.60 | 16.36 | 16.72 | 18.22 |
|                 | 6H   | 13.02            | 13.31 | 14.15 | 14.44 | 15.95 | 15.70          | 15.99 | 16.83 | 17.12 | 18.63 |
|                 | 8H   | 13.09            | 13.34 | 14.22 | 14.46 | 16.01 | 15.86          | 16.11 | 16.99 | 17.23 | 18.78 |