

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: P935483

Luminaire Tested: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

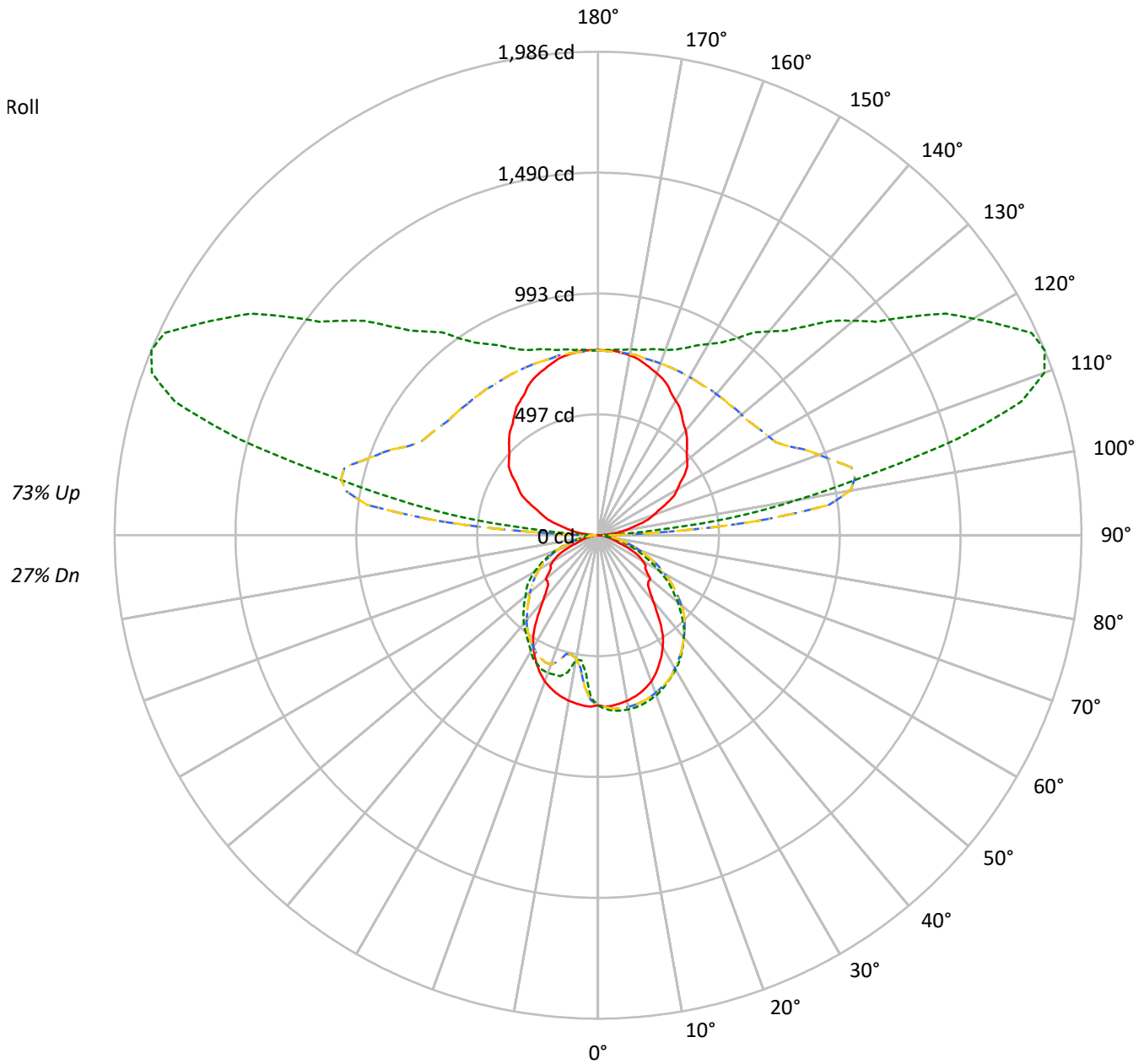
Test Method: LM-79-2019  
Report Number: P935483  
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6746.2 lumens  
Efficiency: N/A  
Efficacy: 141.7 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): 47.6  
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: P935483  
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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 |    |    |    | 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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 52 | 52 | 52 | 35 | 35 | 35 | 27 |    |    |    | 27 |
| 1   | 93  | 88  | 85  | 81  | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 46 | 44 | 43 | 31 | 30 | 29 | 23 |    |    |    | 23 |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 60 | 54 | 51 | 48 | 40 | 38 | 36 | 27 | 26 | 25 | 19 |    |    |    | 19 |
| 3   | 77  | 68  | 61  | 55  | 68 | 61 | 55 | 50 | 48 | 43 | 40 | 35 | 33 | 30 | 24 | 22 | 21 | 16 |    |    |    | 16 |
| 4   | 70  | 60  | 52  | 47  | 62 | 54 | 47 | 42 | 42 | 38 | 34 | 31 | 28 | 26 | 21 | 20 | 18 | 14 |    |    |    | 14 |
| 5   | 64  | 53  | 45  | 40  | 57 | 48 | 41 | 36 | 38 | 33 | 29 | 28 | 25 | 22 | 19 | 17 | 16 | 12 |    |    |    | 12 |
| 6   | 59  | 48  | 40  | 34  | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 25 | 22 | 19 | 17 | 15 | 14 | 10 |    |    |    | 10 |
| 7   | 55  | 43  | 35  | 30  | 49 | 38 | 32 | 27 | 30 | 26 | 22 | 23 | 20 | 17 | 16 | 14 | 12 | 9  |    |    |    | 9  |
| 8   | 50  | 39  | 31  | 26  | 45 | 35 | 28 | 24 | 28 | 23 | 19 | 21 | 18 | 15 | 15 | 12 | 11 | 8  |    |    |    | 8  |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 25 | 21 | 25 | 21 | 17 | 19 | 16 | 14 | 13 | 11 | 10 | 7  |    |    |    | 7  |
| 10  | 44  | 32  | 25  | 20  | 39 | 29 | 23 | 19 | 23 | 19 | 15 | 18 | 14 | 12 | 12 | 10 | 9  | 7  |    |    |    | 7  |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 6486 | 6486 | 6486 | 6486 |
| 5°  | 6526 | 6547 | 6526 | 5148 |
| 10° | 6477 | 6449 | 6477 | 4611 |
| 15° | 6398 | 6310 | 6398 | 5269 |
| 20° | 6257 | 6144 | 6257 | 5280 |
| 25° | 5976 | 5903 | 5976 | 5168 |
| 30° | 5616 | 5702 | 5616 | 4923 |
| 35° | 4999 | 5448 | 4999 | 4653 |
| 40° | 4157 | 5150 | 4157 | 4448 |
| 45° | 3708 | 4801 | 3708 | 4214 |
| 50° | 3931 | 4384 | 3931 | 3978 |
| 55° | 3686 | 3935 | 3686 | 3843 |
| 60° | 3789 | 3342 | 3789 | 3519 |
| 65° | 3418 | 2763 | 3418 | 3087 |
| 70° | 2351 | 2203 | 2351 | 2590 |
| 75° | 2036 | 1627 | 2036 | 1949 |
| 80° | 1610 | 1078 | 1610 | 1172 |
| 85° | 878  | 569  | 878  | 485  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5694 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.1   | 0.9       |
| 10°-20°   | 179.1  | 2.7       |
| 20°-30°   | 276.9  | 4.1       |
| 30°-40°   | 330.6  | 4.9       |
| 40°-50°   | 332.5  | 4.9       |
| 50°-60°   | 289.3  | 4.3       |
| 60°-70°   | 205.1  | 3.0       |
| 70°-80°   | 108.5  | 1.6       |
| 80°-90°   | 29.9   | 0.4       |
| 90°-100°  | 370.8  | 5.5       |
| 100°-110° | 974.8  | 14.4      |
| 110°-120° | 1010.8 | 15.0      |
| 120°-130° | 810.8  | 12.0      |
| 130°-140° | 636.2  | 9.4       |
| 140°-150° | 488.3  | 7.2       |
| 150°-160° | 351.6  | 5.2       |
| 160°-170° | 215.2  | 3.2       |
| 170°-180° | 72.7   | 1.1       |
| 0°-30°    | 519.1  | 7.7       |
| 0°-40°    | 849.7  | 12.6      |
| 0°-60°    | 1471.6 | 21.8      |
| 0°-90°    | 1815.2 | 26.9      |
| 90°-120°  | 2356.4 | 34.9      |
| 90°-150°  | 4291.6 | 63.6      |
| 90°-180°  | 4931.0 | 73.1      |
| 0°-180°   | 6746.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90°  | 180° | 270° | 360° | Flux |
|------|-----|------|------|------|------|------|
| 0°   | 699 | 699  | 699  | 699  | 699  |      |
| 5°   | 702 | 724  | 702  | 569  | 702  | 67   |
| 15°  | 670 | 718  | 670  | 599  | 670  | 189  |
| 25°  | 590 | 669  | 590  | 586  | 590  | 271  |
| 35°  | 449 | 597  | 449  | 510  | 449  | 278  |
| 45°  | 290 | 492  | 290  | 432  | 290  | 232  |
| 55°  | 236 | 363  | 236  | 354  | 236  | 217  |
| 65°  | 164 | 219  | 164  | 245  | 164  | 157  |
| 75°  | 62  | 104  | 62   | 124  | 62   | 65   |
| 85°  | 11  | 26   | 11   | 22   | 11   | 14   |
| 90°  | 5   | 19   | 5    | 19   | 5    | 5    |
| 95°  | 49  | 224  | 49   | 224  | 49   | 54   |
| 105° | 176 | 1526 | 176  | 1526 | 176  | 186  |
| 115° | 312 | 1966 | 312  | 1966 | 312  | 308  |
| 125° | 434 | 1565 | 434  | 1565 | 434  | 385  |
| 135° | 517 | 1214 | 517  | 1214 | 517  | 400  |
| 145° | 600 | 985  | 600  | 985  | 600  | 376  |
| 155° | 678 | 848  | 678  | 848  | 678  | 312  |
| 165° | 732 | 790  | 732  | 790  | 732  | 206  |
| 175° | 761 | 766  | 761  | 766  | 761  | 72   |
| 180° | 761 | 761  | 761  | 761  | 761  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0°     | 699.0 | 699.0 | 699.0 | 699.0 | 699.0 | 699.0 | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  |
| 2.5°   | 704.9 | 704.9 | 708.8 | 710.2 | 710.2 | 708.2 | 706.3  | 708.2  | 714.2  | 716.1  | 715.4  |
| 5°     | 702.2 | 707.6 | 714.8 | 716.1 | 717.5 | 716.8 | 715.4  | 716.8  | 723.4  | 724.7  | 725.4  |
| 7.5°   | 697.0 | 706.9 | 716.1 | 718.1 | 720.1 | 718.1 | 717.5  | 718.8  | 725.4  | 726.7  | 726.7  |
| 10°    | 690.4 | 704.2 | 714.8 | 716.1 | 718.1 | 716.1 | 716.1  | 718.8  | 725.4  | 726.7  | 727.4  |
| 12.5°  | 681.1 | 700.3 | 710.2 | 711.5 | 714.2 | 713.5 | 712.9  | 715.4  | 722.1  | 723.4  | 723.4  |
| 15°    | 670.5 | 693.0 | 702.2 | 703.6 | 708.2 | 706.9 | 706.9  | 709.5  | 716.8  | 718.8  | 718.1  |
| 17.5°  | 656.0 | 683.8 | 694.3 | 696.3 | 699.7 | 699.0 | 699.7  | 702.2  | 708.8  | 710.2  | 710.9  |
| 20°    | 639.4 | 671.2 | 683.8 | 685.8 | 689.0 | 689.0 | 689.0  | 692.4  | 699.0  | 701.6  | 701.6  |
| 22.5°  | 616.9 | 658.0 | 671.2 | 672.6 | 676.5 | 676.5 | 677.8  | 682.4  | 688.3  | 689.0  | 689.0  |
| 25°    | 590.5 | 643.4 | 654.6 | 658.6 | 662.6 | 664.6 | 666.5  | 669.2  | 671.2  | 670.5  | 671.2  |
| 27.5°  | 562.7 | 624.9 | 639.4 | 642.1 | 647.4 | 649.4 | 652.0  | 652.6  | 653.3  | 655.3  | 654.0  |
| 30°    | 531.7 | 599.1 | 620.9 | 623.5 | 632.1 | 633.5 | 630.8  | 632.1  | 635.5  | 636.8  | 638.1  |
| 32.5°  | 496.6 | 560.7 | 601.8 | 607.7 | 615.7 | 611.7 | 611.0  | 613.0  | 618.3  | 618.3  | 619.6  |
| 35°    | 449.0 | 531.0 | 583.9 | 589.2 | 595.1 | 590.5 | 593.2  | 593.8  | 597.1  | 599.1  | 598.4  |
| 37.5°  | 396.8 | 505.2 | 565.4 | 569.3 | 574.0 | 568.0 | 572.0  | 574.0  | 576.6  | 575.3  | 575.3  |
| 40°    | 350.4 | 464.9 | 543.6 | 546.2 | 550.2 | 545.6 | 549.5  | 550.9  | 552.2  | 550.9  | 550.2  |
| 42.5°  | 316.1 | 420.5 | 520.4 | 523.8 | 521.1 | 524.4 | 525.7  | 528.4  | 526.3  | 523.8  | 523.8  |
| 45°    | 289.6 | 408.7 | 495.3 | 499.2 | 495.3 | 500.6 | 502.6  | 502.6  | 496.6  | 495.3  | 494.6  |
| 47.5°  | 281.0 | 384.8 | 470.1 | 470.1 | 468.2 | 474.8 | 478.1  | 473.5  | 467.6  | 465.5  | 465.5  |
| 50°    | 280.4 | 358.4 | 435.8 | 433.1 | 442.4 | 450.3 | 447.1  | 442.4  | 437.8  | 430.5  | 430.5  |
| 52.5°  | 254.6 | 326.0 | 391.4 | 401.4 | 415.9 | 420.5 | 415.3  | 410.7  | 402.7  | 399.4  | 396.8  |
| 55°    | 236.0 | 292.3 | 351.1 | 370.9 | 386.2 | 392.1 | 382.2  | 377.5  | 365.7  | 363.7  | 362.4  |
| 57.5°  | 232.1 | 243.3 | 314.1 | 339.2 | 357.7 | 357.1 | 351.1  | 342.5  | 332.6  | 330.6  | 330.0  |
| 60°    | 213.0 | 175.9 | 274.4 | 304.2 | 323.3 | 321.3 | 316.1  | 308.1  | 298.9  | 297.6  | 296.3  |
| 62.5°  | 193.1 | 127.6 | 229.4 | 263.2 | 290.3 | 289.6 | 285.1  | 273.1  | 266.5  | 263.2  | 260.5  |
| 65°    | 164.0 | 107.1 | 163.4 | 218.9 | 257.9 | 259.2 | 249.3  | 240.7  | 233.4  | 229.4  | 228.8  |
| 67.5°  | 125.0 | 87.3  | 110.4 | 182.5 | 226.8 | 225.5 | 213.0  | 208.9  | 199.7  | 197.7  | 193.7  |
| 70°    | 92.6  | 58.2  | 76.7  | 148.1 | 196.4 | 193.1 | 183.2  | 178.6  | 170.0  | 165.4  | 162.7  |
| 72.5°  | 76.7  | 46.9  | 56.2  | 115.1 | 165.4 | 161.3 | 152.7  | 147.5  | 140.2  | 136.3  | 133.6  |
| 75°    | 62.1  | 49.6  | 43.0  | 85.3  | 134.2 | 131.6 | 123.6  | 118.3  | 112.4  | 107.1  | 107.8  |
| 77.5°  | 45.7  | 46.2  | 34.4  | 62.8  | 106.5 | 102.5 | 97.9   | 91.3   | 88.6   | 83.3   | 83.3   |
| 80°    | 34.4  | 36.4  | 25.8  | 43.0  | 76.7  | 76.7  | 72.8   | 68.1   | 63.5   | 60.8   | 60.8   |
| 82.5°  | 23.2  | 23.2  | 19.1  | 27.1  | 52.3  | 50.3  | 47.6   | 46.2   | 43.7   | 42.3   | 42.3   |
| 85°    | 10.6  | 13.2  | 11.9  | 16.6  | 28.4  | 29.8  | 29.8   | 28.4   | 27.8   | 26.4   | 27.1   |
| 87.5°  | 3.4   | 5.9   | 7.3   | 9.3   | 14.6  | 15.2  | 15.9   | 15.9   | 15.9   | 16.6   | 16.6   |
| 90°    | 5.1   | 9.2   | 13.3  | 14.3  | 22.5  | 33.3  | 38.7   | 34.4   | 25.8   | 19.4   | 19.4   |
| 92.5°  | 20.4  | 55.1  | 89.8  | 98.5  | 138.5 | 191.9 | 218.5  | 191.5  | 137.5  | 97.0   | 93.2   |
| 95°    | 49.0  | 112.5 | 176.1 | 192.0 | 340.9 | 539.3 | 638.6  | 569.9  | 432.5  | 329.3  | 317.6  |
| 97.5°  | 84.7  | 140.7 | 196.8 | 210.8 | 459.1 | 790.1 | 955.6  | 912.1  | 825.3  | 760.1  | 737.9  |
| 100°   | 112.3 | 163.2 | 214.0 | 226.7 | 502.2 | 869.5 | 1053.1 | 1056.3 | 1062.7 | 1067.4 | 1040.9 |
| 102.5° | 135.8 | 183.2 | 230.6 | 242.5 | 521.9 | 894.5 | 1080.8 | 1136.2 | 1246.9 | 1329.9 | 1307.2 |
| 105°   | 175.6 | 215.8 | 256.0 | 266.0 | 536.6 | 897.4 | 1077.7 | 1201.8 | 1450.0 | 1636.2 | 1623.9 |
| 107.5° | 216.4 | 253.9 | 291.4 | 300.7 | 539.3 | 857.4 | 1016.5 | 1189.6 | 1535.8 | 1795.4 | 1798.4 |
| 110°   | 244.0 | 277.9 | 311.6 | 320.1 | 535.2 | 822.0 | 965.4  | 1158.9 | 1546.0 | 1836.3 | 1849.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 271.1 | 303.3 | 335.4 | 343.5 | 535.3 | 791.1 | 919.0 | 1117.0 | 1513.2 | 1810.3 | 1829.8 |
| 115°   | 311.9 | 341.6 | 371.4 | 378.8 | 540.3 | 755.6 | 863.2 | 1054.0 | 1435.7 | 1722.0 | 1749.0 |
| 117.5° | 352.3 | 379.3 | 406.3 | 413.0 | 550.4 | 733.5 | 825.0 | 997.1  | 1341.6 | 1599.9 | 1629.9 |
| 120°   | 375.8 | 401.2 | 426.6 | 433.0 | 558.6 | 726.0 | 809.7 | 967.1  | 1281.7 | 1517.7 | 1546.9 |
| 122.5° | 398.7 | 424.4 | 450.0 | 456.4 | 570.3 | 722.0 | 798.0 | 939.7  | 1223.0 | 1435.5 | 1464.3 |
| 125°   | 433.9 | 457.3 | 480.7 | 486.5 | 586.1 | 718.8 | 785.2 | 905.5  | 1146.2 | 1326.8 | 1353.3 |
| 127.5° | 462.5 | 486.1 | 509.7 | 515.6 | 601.9 | 716.9 | 774.4 | 877.7  | 1084.5 | 1239.5 | 1261.9 |
| 130°   | 477.8 | 503.3 | 528.7 | 535.0 | 613.5 | 718.1 | 770.4 | 862.4  | 1046.3 | 1184.4 | 1205.0 |
| 132.5° | 493.7 | 519.1 | 544.6 | 550.9 | 622.9 | 718.8 | 766.8 | 849.1  | 1013.9 | 1137.4 | 1155.9 |
| 135°   | 517.2 | 540.3 | 563.4 | 569.2 | 633.0 | 718.1 | 760.7 | 829.7  | 967.7  | 1071.1 | 1087.1 |
| 137.5° | 541.1 | 564.0 | 587.0 | 592.7 | 648.3 | 722.5 | 759.6 | 817.9  | 934.5  | 1022.0 | 1035.0 |
| 140°   | 561.0 | 582.1 | 603.2 | 608.6 | 657.8 | 723.3 | 756.1 | 806.4  | 907.2  | 982.7  | 995.0  |
| 142.5° | 576.3 | 595.8 | 615.4 | 620.3 | 665.6 | 725.9 | 756.1 | 800.3  | 888.8  | 955.1  | 965.6  |
| 145°   | 599.9 | 616.8 | 633.9 | 638.1 | 675.7 | 725.9 | 750.9 | 787.1  | 859.5  | 913.8  | 921.8  |
| 147.5° | 623.3 | 639.9 | 656.5 | 660.6 | 690.7 | 730.8 | 750.9 | 779.4  | 836.4  | 879.1  | 885.7  |
| 150°   | 638.6 | 653.6 | 668.6 | 672.4 | 698.6 | 733.5 | 750.9 | 775.0  | 823.1  | 859.2  | 864.5  |
| 152.5° | 654.5 | 665.8 | 677.2 | 680.0 | 703.7 | 735.2 | 750.9 | 771.4  | 812.6  | 843.3  | 847.4  |
| 155°   | 678.0 | 686.4 | 694.7 | 696.8 | 714.8 | 738.9 | 750.9 | 767.3  | 799.9  | 824.5  | 827.2  |
| 157.5° | 695.3 | 703.5 | 711.6 | 713.7 | 726.1 | 742.7 | 750.9 | 763.7  | 789.1  | 808.1  | 810.0  |
| 160°   | 707.1 | 713.4 | 719.8 | 721.4 | 731.2 | 744.3 | 750.9 | 761.8  | 783.6  | 799.9  | 801.0  |
| 162.5° | 718.8 | 723.5 | 728.4 | 729.5 | 736.6 | 746.2 | 750.9 | 760.1  | 778.5  | 792.3  | 793.3  |
| 165°   | 731.5 | 735.9 | 740.2 | 741.3 | 744.5 | 748.8 | 750.9 | 757.5  | 770.7  | 780.5  | 781.6  |
| 167.5° | 743.3 | 745.3 | 747.4 | 747.9 | 750.6 | 754.3 | 756.1 | 760.4  | 769.0  | 775.5  | 776.0  |
| 170°   | 750.9 | 753.0 | 755.1 | 755.6 | 755.8 | 756.0 | 756.1 | 760.4  | 769.0  | 775.5  | 775.5  |
| 172.5° | 755.1 | 755.5 | 756.0 | 756.1 | 756.1 | 756.1 | 756.1 | 759.4  | 766.2  | 771.3  | 771.0  |
| 175°   | 760.7 | 760.7 | 760.7 | 760.7 | 759.1 | 757.1 | 756.1 | 758.2  | 762.5  | 765.7  | 765.7  |
| 177.5° | 760.7 | 760.7 | 760.7 | 760.7 | 759.5 | 757.8 | 757.1 | 758.7  | 762.2  | 764.7  | 764.2  |
| 180°   | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7  | 760.7  | 760.7  | 760.7  |



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CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 0°     | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  | 699.0 | 699.0 | 699.0  |
| 2.5°   | 716.8  | 714.8  | 716.8  | 715.4  | 716.1  | 714.2  | 708.2  | 706.3  | 708.2 | 710.2 | 710.2  |
| 5°     | 725.4  | 724.1  | 725.4  | 725.4  | 724.7  | 723.4  | 716.8  | 715.4  | 716.8 | 717.5 | 716.1  |
| 7.5°   | 728.1  | 726.1  | 728.1  | 726.7  | 726.7  | 725.4  | 718.8  | 717.5  | 718.1 | 720.1 | 718.1  |
| 10°    | 728.1  | 726.1  | 728.1  | 727.4  | 726.7  | 725.4  | 718.8  | 716.1  | 716.1 | 718.1 | 716.1  |
| 12.5°  | 724.7  | 723.4  | 724.7  | 723.4  | 723.4  | 722.1  | 715.4  | 712.9  | 713.5 | 714.2 | 711.5  |
| 15°    | 719.5  | 717.5  | 719.5  | 718.1  | 718.8  | 716.8  | 709.5  | 706.9  | 706.9 | 708.2 | 703.6  |
| 17.5°  | 711.5  | 708.8  | 711.5  | 710.9  | 710.2  | 708.8  | 702.2  | 699.7  | 699.0 | 699.7 | 696.3  |
| 20°    | 702.2  | 700.3  | 702.2  | 701.6  | 701.6  | 699.0  | 692.4  | 689.0  | 689.0 | 689.0 | 685.8  |
| 22.5°  | 687.7  | 685.8  | 687.7  | 689.0  | 689.0  | 688.3  | 682.4  | 677.8  | 676.5 | 676.5 | 672.6  |
| 25°    | 671.2  | 669.2  | 671.2  | 671.2  | 670.5  | 671.2  | 669.2  | 666.5  | 664.6 | 662.6 | 658.6  |
| 27.5°  | 655.3  | 654.0  | 655.3  | 654.0  | 655.3  | 653.3  | 652.6  | 652.0  | 649.4 | 647.4 | 642.1  |
| 30°    | 639.4  | 638.1  | 639.4  | 638.1  | 636.8  | 635.5  | 632.1  | 630.8  | 633.5 | 632.1 | 623.5  |
| 32.5°  | 619.6  | 618.3  | 619.6  | 619.6  | 618.3  | 618.3  | 613.0  | 611.0  | 611.7 | 615.7 | 607.7  |
| 35°    | 599.1  | 597.1  | 599.1  | 598.4  | 599.1  | 597.1  | 593.8  | 593.2  | 590.5 | 595.1 | 589.2  |
| 37.5°  | 575.3  | 573.4  | 575.3  | 575.3  | 575.3  | 576.6  | 574.0  | 572.0  | 568.0 | 574.0 | 569.3  |
| 40°    | 550.9  | 548.2  | 550.9  | 550.2  | 550.9  | 552.2  | 550.9  | 549.5  | 545.6 | 550.2 | 546.2  |
| 42.5°  | 523.1  | 522.4  | 523.1  | 523.8  | 523.8  | 526.3  | 528.4  | 525.7  | 524.4 | 521.1 | 523.8  |
| 45°    | 493.3  | 492.0  | 493.3  | 494.6  | 495.3  | 496.6  | 502.6  | 502.6  | 500.6 | 495.3 | 499.2  |
| 47.5°  | 461.5  | 458.3  | 461.5  | 465.5  | 465.5  | 467.6  | 473.5  | 478.1  | 474.8 | 468.2 | 470.1  |
| 50°    | 427.8  | 428.5  | 427.8  | 430.5  | 430.5  | 437.8  | 442.4  | 447.1  | 450.3 | 442.4 | 433.1  |
| 52.5°  | 394.8  | 394.1  | 394.8  | 396.8  | 399.4  | 402.7  | 410.7  | 415.3  | 420.5 | 415.9 | 401.4  |
| 55°    | 361.7  | 363.0  | 361.7  | 362.4  | 363.7  | 365.7  | 377.5  | 382.2  | 392.1 | 386.2 | 370.9  |
| 57.5°  | 328.6  | 326.7  | 328.6  | 330.0  | 330.6  | 332.6  | 342.5  | 351.1  | 357.1 | 357.7 | 339.2  |
| 60°    | 290.3  | 287.6  | 290.3  | 296.3  | 297.6  | 298.9  | 308.1  | 316.1  | 321.3 | 323.3 | 304.2  |
| 62.5°  | 256.6  | 251.9  | 256.6  | 260.5  | 263.2  | 266.5  | 273.1  | 285.1  | 289.6 | 290.3 | 263.2  |
| 65°    | 220.9  | 218.9  | 220.9  | 228.8  | 229.4  | 233.4  | 240.7  | 249.3  | 259.2 | 257.9 | 218.9  |
| 67.5°  | 188.4  | 188.4  | 188.4  | 193.7  | 197.7  | 199.7  | 208.9  | 213.0  | 225.5 | 226.8 | 182.5  |
| 70°    | 158.7  | 158.1  | 158.7  | 162.7  | 165.4  | 170.0  | 178.6  | 183.2  | 193.1 | 196.4 | 148.1  |
| 72.5°  | 130.3  | 129.6  | 130.3  | 133.6  | 136.3  | 140.2  | 147.5  | 152.7  | 161.3 | 165.4 | 115.1  |
| 75°    | 105.1  | 103.8  | 105.1  | 107.8  | 107.1  | 112.4  | 118.3  | 123.6  | 131.6 | 134.2 | 85.3   |
| 77.5°  | 80.7   | 80.7   | 80.7   | 83.3   | 83.3   | 88.6   | 91.3   | 97.9   | 102.5 | 106.5 | 62.8   |
| 80°    | 60.1   | 59.6   | 60.1   | 60.8   | 60.8   | 63.5   | 68.1   | 72.8   | 76.7  | 76.7  | 43.0   |
| 82.5°  | 42.3   | 41.0   | 42.3   | 42.3   | 42.3   | 43.7   | 46.2   | 47.6   | 50.3  | 52.3  | 27.1   |
| 85°    | 26.4   | 26.4   | 26.4   | 27.1   | 26.4   | 27.8   | 28.4   | 29.8   | 29.8  | 28.4  | 16.6   |
| 87.5°  | 17.2   | 16.6   | 17.2   | 16.6   | 16.6   | 15.9   | 15.9   | 15.9   | 15.2  | 14.6  | 9.3    |
| 90°    | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 25.8   | 34.4   | 38.7   | 33.3  | 22.5  | 14.3   |
| 92.5°  | 77.7   | 62.3   | 77.7   | 93.2   | 97.0   | 137.5  | 191.5  | 218.5  | 191.9 | 138.5 | 98.5   |
| 95°    | 270.9  | 224.1  | 270.9  | 317.6  | 329.3  | 432.5  | 569.9  | 638.6  | 539.3 | 340.9 | 192.0  |
| 97.5°  | 649.0  | 560.0  | 649.0  | 737.9  | 760.1  | 825.3  | 912.1  | 955.6  | 790.1 | 459.1 | 210.8  |
| 100°   | 935.0  | 829.0  | 935.0  | 1040.9 | 1067.4 | 1062.7 | 1056.3 | 1053.1 | 869.5 | 502.2 | 226.7  |
| 102.5° | 1216.4 | 1125.7 | 1216.4 | 1307.2 | 1329.9 | 1246.9 | 1136.2 | 1080.8 | 894.5 | 521.9 | 242.5  |
| 105°   | 1575.2 | 1526.4 | 1575.2 | 1623.9 | 1636.2 | 1450.0 | 1201.8 | 1077.7 | 897.4 | 536.6 | 266.0  |
| 107.5° | 1810.2 | 1822.0 | 1810.2 | 1798.4 | 1795.4 | 1535.8 | 1189.6 | 1016.5 | 857.4 | 539.3 | 300.7  |
| 110°   | 1899.8 | 1950.6 | 1899.8 | 1849.0 | 1836.3 | 1546.0 | 1158.9 | 965.4  | 822.0 | 535.2 | 320.1  |





TEST NUMBER: P935483

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| 112.5° | 1907.8 | 1985.9 | 1907.8 | 1829.8 | 1810.3 | 1513.2 | 1117.0 | 919.0 | 791.1 | 535.3 | 343.5  |
| 115°   | 1857.2 | 1965.5 | 1857.2 | 1749.0 | 1722.0 | 1435.7 | 1054.0 | 863.2 | 755.6 | 540.3 | 378.8  |
| 117.5° | 1750.0 | 1869.9 | 1750.0 | 1629.9 | 1599.9 | 1341.6 | 997.1  | 825.0 | 733.5 | 550.4 | 413.0  |
| 120°   | 1663.5 | 1780.1 | 1663.5 | 1546.9 | 1517.7 | 1281.7 | 967.1  | 809.7 | 726.0 | 558.6 | 433.0  |
| 122.5° | 1579.3 | 1694.3 | 1579.3 | 1464.3 | 1435.5 | 1223.0 | 939.7  | 798.0 | 722.0 | 570.3 | 456.4  |
| 125°   | 1459.2 | 1565.2 | 1459.2 | 1353.3 | 1326.8 | 1146.2 | 905.5  | 785.2 | 718.8 | 586.1 | 486.5  |
| 127.5° | 1351.2 | 1440.6 | 1351.2 | 1261.9 | 1239.5 | 1084.5 | 877.7  | 774.4 | 716.9 | 601.9 | 515.6  |
| 130°   | 1287.6 | 1370.2 | 1287.6 | 1205.0 | 1184.4 | 1046.3 | 862.4  | 770.4 | 718.1 | 613.5 | 535.0  |
| 132.5° | 1229.8 | 1303.8 | 1229.8 | 1155.9 | 1137.4 | 1013.9 | 849.1  | 766.8 | 718.8 | 622.9 | 550.9  |
| 135°   | 1150.8 | 1214.5 | 1150.8 | 1087.1 | 1071.1 | 967.7  | 829.7  | 760.7 | 718.1 | 633.0 | 569.2  |
| 137.5° | 1087.3 | 1139.4 | 1087.3 | 1035.0 | 1022.0 | 934.5  | 817.9  | 759.6 | 722.5 | 648.3 | 592.7  |
| 140°   | 1043.7 | 1092.5 | 1043.7 | 995.0  | 982.7  | 907.2  | 806.4  | 756.1 | 723.3 | 657.8 | 608.6  |
| 142.5° | 1007.6 | 1049.6 | 1007.6 | 965.6  | 955.1  | 888.8  | 800.3  | 756.1 | 725.9 | 665.6 | 620.3  |
| 145°   | 953.6  | 985.3  | 953.6  | 921.8  | 913.8  | 859.5  | 787.1  | 750.9 | 725.9 | 675.7 | 638.1  |
| 147.5° | 912.0  | 938.3  | 912.0  | 885.7  | 879.1  | 836.4  | 779.4  | 750.9 | 730.8 | 690.7 | 660.6  |
| 150°   | 885.9  | 907.2  | 885.9  | 864.5  | 859.2  | 823.1  | 775.0  | 750.9 | 733.5 | 698.6 | 672.4  |
| 152.5° | 863.4  | 879.6  | 863.4  | 847.4  | 843.3  | 812.6  | 771.4  | 750.9 | 735.2 | 703.7 | 680.0  |
| 155°   | 837.8  | 848.5  | 837.8  | 827.2  | 824.5  | 799.9  | 767.3  | 750.9 | 738.9 | 714.8 | 696.8  |
| 157.5° | 817.5  | 825.0  | 817.5  | 810.0  | 808.1  | 789.1  | 763.7  | 750.9 | 742.7 | 726.1 | 713.7  |
| 160°   | 805.4  | 809.7  | 805.4  | 801.0  | 799.9  | 783.6  | 761.8  | 750.9 | 744.3 | 731.2 | 721.4  |
| 162.5° | 797.5  | 801.5  | 797.5  | 793.3  | 792.3  | 778.5  | 760.1  | 750.9 | 746.2 | 736.6 | 729.5  |
| 165°   | 785.9  | 790.3  | 785.9  | 781.6  | 780.5  | 770.7  | 757.5  | 750.9 | 748.8 | 744.5 | 741.3  |
| 167.5° | 777.8  | 779.5  | 777.8  | 776.0  | 775.5  | 769.0  | 760.4  | 756.1 | 754.3 | 750.6 | 747.9  |
| 170°   | 775.5  | 775.5  | 775.5  | 775.5  | 775.5  | 769.0  | 760.4  | 756.1 | 756.0 | 755.8 | 755.6  |
| 172.5° | 769.4  | 767.8  | 769.4  | 771.0  | 771.3  | 766.2  | 759.4  | 756.1 | 756.1 | 756.1 | 756.1  |
| 175°   | 765.7  | 765.7  | 765.7  | 765.7  | 765.7  | 762.5  | 758.2  | 756.1 | 757.1 | 759.1 | 760.7  |
| 177.5° | 762.5  | 760.7  | 762.5  | 764.2  | 764.7  | 762.2  | 758.7  | 757.1 | 757.8 | 759.5 | 760.7  |
| 180°   | 760.7  | 760.7  | 760.7  | 760.7  | 760.7  | 760.7  | 760.7  | 760.7 | 760.7 | 760.7 | 760.7  |



TEST NUMBER: P935483

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°   | 230°   | 240°   |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|
| 0°     | 699.0 | 699.0 | 699.0 | 699.0 | 699.0 | 699.0  | 699.0 | 699.0 | 699.0  | 699.0  | 699.0  |
| 2.5°   | 708.8 | 704.9 | 704.9 | 698.3 | 695.6 | 693.7  | 690.4 | 680.4 | 677.8  | 675.1  | 679.2  |
| 5°     | 714.8 | 707.6 | 702.2 | 690.4 | 680.4 | 676.5  | 663.9 | 640.1 | 624.2  | 612.3  | 605.7  |
| 7.5°   | 716.1 | 706.9 | 697.0 | 678.5 | 654.6 | 644.1  | 605.7 | 562.1 | 550.2  | 539.6  | 532.9  |
| 10°    | 714.8 | 704.2 | 690.4 | 662.6 | 606.4 | 587.9  | 549.5 | 521.1 | 513.8  | 511.8  | 513.8  |
| 12.5°  | 710.2 | 700.3 | 681.1 | 634.8 | 556.1 | 543.6  | 521.1 | 504.5 | 503.3  | 506.5  | 524.4  |
| 15°    | 702.2 | 693.0 | 670.5 | 597.8 | 528.4 | 519.1  | 503.3 | 497.2 | 504.5  | 527.7  | 581.2  |
| 17.5°  | 694.3 | 683.8 | 656.0 | 561.4 | 507.2 | 500.6  | 489.4 | 501.3 | 542.2  | 573.4  | 591.2  |
| 20°    | 683.8 | 671.2 | 639.4 | 535.0 | 492.0 | 486.0  | 480.8 | 534.3 | 565.4  | 576.6  | 586.6  |
| 22.5°  | 671.2 | 658.0 | 616.9 | 516.5 | 476.1 | 471.5  | 474.8 | 552.9 | 565.4  | 573.4  | 581.9  |
| 25°    | 654.6 | 643.4 | 590.5 | 501.9 | 463.5 | 458.3  | 470.8 | 550.9 | 558.1  | 560.0  | 577.3  |
| 27.5°  | 639.4 | 624.9 | 562.7 | 488.7 | 448.3 | 446.4  | 474.2 | 542.2 | 547.5  | 549.5  | 568.0  |
| 30°    | 620.9 | 599.1 | 531.7 | 474.8 | 432.5 | 431.8  | 474.8 | 531.7 | 530.4  | 535.6  | 554.1  |
| 32.5°  | 601.8 | 560.7 | 496.6 | 457.6 | 417.3 | 416.6  | 470.1 | 515.8 | 514.5  | 521.7  | 535.6  |
| 35°    | 583.9 | 531.0 | 449.0 | 437.8 | 398.0 | 398.7  | 458.9 | 497.2 | 497.9  | 504.5  | 513.1  |
| 37.5°  | 565.4 | 505.2 | 396.8 | 415.9 | 379.6 | 379.6  | 443.7 | 480.1 | 478.8  | 480.8  | 492.6  |
| 40°    | 543.6 | 464.9 | 350.4 | 387.5 | 362.4 | 360.4  | 425.2 | 461.5 | 456.9  | 456.3  | 472.8  |
| 42.5°  | 520.4 | 420.5 | 316.1 | 349.8 | 342.5 | 339.9  | 402.7 | 439.1 | 430.5  | 432.5  | 453.7  |
| 45°    | 495.3 | 408.7 | 289.6 | 295.6 | 322.0 | 320.1  | 378.2 | 413.3 | 407.3  | 412.6  | 434.4  |
| 47.5°  | 470.1 | 384.8 | 281.0 | 245.3 | 300.2 | 299.5  | 351.1 | 388.2 | 384.8  | 390.2  | 413.3  |
| 50°    | 435.8 | 358.4 | 280.4 | 210.3 | 275.8 | 278.3  | 318.8 | 363.7 | 363.7  | 368.4  | 392.8  |
| 52.5°  | 391.4 | 326.0 | 254.6 | 190.4 | 247.3 | 255.3  | 290.3 | 342.5 | 343.8  | 348.5  | 370.3  |
| 55°    | 351.1 | 292.3 | 236.0 | 175.2 | 213.6 | 230.8  | 262.5 | 320.7 | 323.3  | 327.9  | 347.9  |
| 57.5°  | 314.1 | 243.3 | 232.1 | 157.4 | 182.5 | 199.1  | 238.0 | 299.5 | 300.8  | 304.9  | 324.0  |
| 60°    | 274.4 | 175.9 | 213.0 | 138.2 | 155.4 | 167.9  | 215.5 | 274.4 | 279.0  | 281.7  | 298.3  |
| 62.5°  | 229.4 | 127.6 | 193.1 | 125.0 | 142.2 | 144.8  | 197.1 | 250.6 | 256.6  | 258.5  | 268.5  |
| 65°    | 163.4 | 107.1 | 164.0 | 113.8 | 128.3 | 129.0  | 177.2 | 226.2 | 231.4  | 234.8  | 242.1  |
| 67.5°  | 110.4 | 87.3  | 125.0 | 103.1 | 117.7 | 118.3  | 158.1 | 197.7 | 205.0  | 207.7  | 212.3  |
| 70°    | 76.7  | 58.2  | 92.6  | 91.9  | 105.8 | 107.1  | 137.5 | 172.0 | 178.6  | 180.5  | 183.2  |
| 72.5°  | 56.2  | 46.9  | 76.7  | 82.6  | 93.3  | 94.6   | 116.3 | 142.9 | 149.5  | 151.4  | 152.7  |
| 75°    | 43.0  | 49.6  | 62.1  | 72.1  | 79.4  | 80.0   | 95.2  | 116.3 | 121.0  | 122.4  | 123.0  |
| 77.5°  | 34.4  | 46.2  | 45.7  | 58.2  | 64.8  | 63.5   | 74.7  | 89.9  | 93.9   | 93.9   | 93.9   |
| 80°    | 25.8  | 36.4  | 34.4  | 41.7  | 47.6  | 46.2   | 53.5  | 64.2  | 65.5   | 66.8   | 66.2   |
| 82.5°  | 19.1  | 23.2  | 23.2  | 26.4  | 31.7  | 30.5   | 35.7  | 41.7  | 41.7   | 41.7   | 43.0   |
| 85°    | 11.9  | 13.2  | 10.6  | 13.9  | 17.8  | 17.2   | 19.8  | 22.5  | 23.2   | 23.2   | 21.8   |
| 87.5°  | 7.3   | 5.9   | 3.4   | 5.3   | 7.9   | 7.9    | 9.3   | 10.0  | 9.3    | 9.3    | 9.3    |
| 90°    | 13.3  | 9.2   | 5.1   | 9.2   | 13.3  | 14.3   | 22.5  | 33.3  | 38.7   | 34.4   | 25.8   |
| 92.5°  | 89.8  | 55.1  | 20.4  | 55.1  | 89.8  | 98.5   | 138.5 | 191.9 | 218.5  | 191.5  | 137.5  |
| 95°    | 176.1 | 112.5 | 49.0  | 112.5 | 176.1 | 192.0  | 340.9 | 539.3 | 638.6  | 569.9  | 432.5  |
| 97.5°  | 196.8 | 140.7 | 84.7  | 140.7 | 196.8 | 210.8  | 459.1 | 790.1 | 955.6  | 912.1  | 825.3  |
| 100°   | 214.0 | 163.2 | 112.3 | 163.2 | 214.0 | 226.7  | 502.2 | 869.5 | 1053.1 | 1056.3 | 1062.7 |
| 102.5° | 230.6 | 183.2 | 135.8 | 183.2 | 230.6 | 242.5  | 521.9 | 894.5 | 1080.8 | 1136.2 | 1246.9 |
| 105°   | 256.0 | 215.8 | 175.6 | 215.8 | 256.0 | 266.0  | 536.6 | 897.4 | 1077.7 | 1201.8 | 1450.0 |
| 107.5° | 291.4 | 253.9 | 216.4 | 253.9 | 291.4 | 300.7  | 539.3 | 857.4 | 1016.5 | 1189.6 | 1535.8 |
| 110°   | 311.6 | 277.9 | 244.0 | 277.9 | 311.6 | 320.1  | 535.2 | 822.0 | 965.4  | 1158.9 | 1546.0 |



TEST NUMBER: P935483

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°   | 240°   |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|
| 112.5° | 335.4 | 303.3 | 271.1 | 303.3 | 335.4 | 343.5  | 535.3 | 791.1 | 919.0 | 1117.0 | 1513.2 |
| 115°   | 371.4 | 341.6 | 311.9 | 341.6 | 371.4 | 378.8  | 540.3 | 755.6 | 863.2 | 1054.0 | 1435.7 |
| 117.5° | 406.3 | 379.3 | 352.3 | 379.3 | 406.3 | 413.0  | 550.4 | 733.5 | 825.0 | 997.1  | 1341.6 |
| 120°   | 426.6 | 401.2 | 375.8 | 401.2 | 426.6 | 433.0  | 558.6 | 726.0 | 809.7 | 967.1  | 1281.7 |
| 122.5° | 450.0 | 424.4 | 398.7 | 424.4 | 450.0 | 456.4  | 570.3 | 722.0 | 798.0 | 939.7  | 1223.0 |
| 125°   | 480.7 | 457.3 | 433.9 | 457.3 | 480.7 | 486.5  | 586.1 | 718.8 | 785.2 | 905.5  | 1146.2 |
| 127.5° | 509.7 | 486.1 | 462.5 | 486.1 | 509.7 | 515.6  | 601.9 | 716.9 | 774.4 | 877.7  | 1084.5 |
| 130°   | 528.7 | 503.3 | 477.8 | 503.3 | 528.7 | 535.0  | 613.5 | 718.1 | 770.4 | 862.4  | 1046.3 |
| 132.5° | 544.6 | 519.1 | 493.7 | 519.1 | 544.6 | 550.9  | 622.9 | 718.8 | 766.8 | 849.1  | 1013.9 |
| 135°   | 563.4 | 540.3 | 517.2 | 540.3 | 563.4 | 569.2  | 633.0 | 718.1 | 760.7 | 829.7  | 967.7  |
| 137.5° | 587.0 | 564.0 | 541.1 | 564.0 | 587.0 | 592.7  | 648.3 | 722.5 | 759.6 | 817.9  | 934.5  |
| 140°   | 603.2 | 582.1 | 561.0 | 582.1 | 603.2 | 608.6  | 657.8 | 723.3 | 756.1 | 806.4  | 907.2  |
| 142.5° | 615.4 | 595.8 | 576.3 | 595.8 | 615.4 | 620.3  | 665.6 | 725.9 | 756.1 | 800.3  | 888.8  |
| 145°   | 633.9 | 616.8 | 599.9 | 616.8 | 633.9 | 638.1  | 675.7 | 725.9 | 750.9 | 787.1  | 859.5  |
| 147.5° | 656.5 | 639.9 | 623.3 | 639.9 | 656.5 | 660.6  | 690.7 | 730.8 | 750.9 | 779.4  | 836.4  |
| 150°   | 668.6 | 653.6 | 638.6 | 653.6 | 668.6 | 672.4  | 698.6 | 733.5 | 750.9 | 775.0  | 823.1  |
| 152.5° | 677.2 | 665.8 | 654.5 | 665.8 | 677.2 | 680.0  | 703.7 | 735.2 | 750.9 | 771.4  | 812.6  |
| 155°   | 694.7 | 686.4 | 678.0 | 686.4 | 694.7 | 696.8  | 714.8 | 738.9 | 750.9 | 767.3  | 799.9  |
| 157.5° | 711.6 | 703.5 | 695.3 | 703.5 | 711.6 | 713.7  | 726.1 | 742.7 | 750.9 | 763.7  | 789.1  |
| 160°   | 719.8 | 713.4 | 707.1 | 713.4 | 719.8 | 721.4  | 731.2 | 744.3 | 750.9 | 761.8  | 783.6  |
| 162.5° | 728.4 | 723.5 | 718.8 | 723.5 | 728.4 | 729.5  | 736.6 | 746.2 | 750.9 | 760.1  | 778.5  |
| 165°   | 740.2 | 735.9 | 731.5 | 735.9 | 740.2 | 741.3  | 744.5 | 748.8 | 750.9 | 757.5  | 770.7  |
| 167.5° | 747.4 | 745.3 | 743.3 | 745.3 | 747.4 | 747.9  | 750.6 | 754.3 | 756.1 | 760.4  | 769.0  |
| 170°   | 755.1 | 753.0 | 750.9 | 753.0 | 755.1 | 755.6  | 755.8 | 756.0 | 756.1 | 760.4  | 769.0  |
| 172.5° | 756.0 | 755.5 | 755.1 | 755.5 | 756.0 | 756.1  | 756.1 | 756.1 | 756.1 | 759.4  | 766.2  |
| 175°   | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7  | 759.1 | 757.1 | 756.1 | 758.2  | 762.5  |
| 177.5° | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7  | 759.5 | 757.8 | 757.1 | 758.7  | 762.2  |
| 180°   | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7  | 760.7 | 760.7 | 760.7 | 760.7  | 760.7  |



TEST NUMBER: P935483

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°     | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  | 699.0  | 699.0 |
| 2.5°   | 674.5  | 672.6  | 675.1  | 667.9  | 675.1  | 672.6  | 674.5  | 679.2  | 675.1  | 677.8  | 680.4 |
| 5°     | 591.8  | 588.5  | 578.0  | 569.3  | 578.0  | 588.5  | 591.8  | 605.7  | 612.3  | 624.2  | 640.1 |
| 7.5°   | 529.0  | 526.3  | 523.8  | 518.4  | 523.8  | 526.3  | 529.0  | 532.9  | 539.6  | 550.2  | 562.1 |
| 10°    | 515.1  | 515.8  | 519.7  | 519.1  | 519.7  | 515.8  | 515.1  | 513.8  | 511.8  | 513.8  | 521.1 |
| 12.5°  | 550.9  | 556.8  | 578.6  | 577.3  | 578.6  | 556.8  | 550.9  | 524.4  | 506.5  | 503.3  | 504.5 |
| 15°    | 591.8  | 593.8  | 598.4  | 599.1  | 598.4  | 593.8  | 591.8  | 581.2  | 527.7  | 504.5  | 497.2 |
| 17.5°  | 595.8  | 596.4  | 599.8  | 599.8  | 599.8  | 596.4  | 595.8  | 591.2  | 573.4  | 542.2  | 501.3 |
| 20°    | 592.5  | 593.8  | 600.5  | 601.8  | 600.5  | 593.8  | 592.5  | 586.6  | 576.6  | 565.4  | 534.3 |
| 22.5°  | 591.2  | 593.8  | 599.1  | 598.4  | 599.1  | 593.8  | 591.2  | 581.9  | 573.4  | 565.4  | 552.9 |
| 25°    | 584.6  | 584.6  | 585.2  | 585.9  | 585.2  | 584.6  | 584.6  | 577.3  | 560.0  | 558.1  | 550.9 |
| 27.5°  | 570.7  | 572.0  | 575.9  | 575.3  | 575.9  | 572.0  | 570.7  | 568.0  | 549.5  | 547.5  | 542.2 |
| 30°    | 558.1  | 556.8  | 553.4  | 550.9  | 553.4  | 556.8  | 558.1  | 554.1  | 535.6  | 530.4  | 531.7 |
| 32.5°  | 537.0  | 533.6  | 530.4  | 528.4  | 530.4  | 533.6  | 537.0  | 535.6  | 521.7  | 514.5  | 515.8 |
| 35°    | 511.8  | 512.5  | 511.8  | 509.9  | 511.8  | 512.5  | 511.8  | 513.1  | 504.5  | 497.9  | 497.2 |
| 37.5°  | 494.0  | 495.3  | 494.6  | 492.0  | 494.6  | 495.3  | 494.0  | 492.6  | 480.8  | 478.8  | 480.1 |
| 40°    | 475.4  | 476.1  | 475.4  | 473.5  | 475.4  | 476.1  | 475.4  | 472.8  | 456.3  | 456.9  | 461.5 |
| 42.5°  | 457.6  | 456.9  | 454.9  | 453.7  | 454.9  | 456.9  | 457.6  | 453.7  | 432.5  | 430.5  | 439.1 |
| 45°    | 437.1  | 437.8  | 433.7  | 431.8  | 433.7  | 437.8  | 437.1  | 434.4  | 412.6  | 407.3  | 413.3 |
| 47.5°  | 416.6  | 416.6  | 413.3  | 411.3  | 413.3  | 416.6  | 416.6  | 413.3  | 390.2  | 384.8  | 388.2 |
| 50°    | 394.8  | 394.1  | 389.5  | 388.8  | 389.5  | 394.1  | 394.8  | 392.8  | 368.4  | 363.7  | 363.7 |
| 52.5°  | 369.7  | 369.7  | 370.3  | 371.6  | 370.3  | 369.7  | 369.7  | 370.3  | 348.5  | 343.8  | 342.5 |
| 55°    | 347.9  | 348.5  | 353.1  | 354.5  | 353.1  | 348.5  | 347.9  | 347.9  | 327.9  | 323.3  | 320.7 |
| 57.5°  | 325.4  | 325.4  | 328.6  | 328.6  | 328.6  | 325.4  | 325.4  | 324.0  | 304.9  | 300.8  | 299.5 |
| 60°    | 299.5  | 300.8  | 303.5  | 302.9  | 303.5  | 300.8  | 299.5  | 298.3  | 281.7  | 279.0  | 274.4 |
| 62.5°  | 272.4  | 273.8  | 274.4  | 273.1  | 274.4  | 273.8  | 272.4  | 268.5  | 258.5  | 256.6  | 250.6 |
| 65°    | 244.0  | 245.3  | 246.0  | 244.6  | 246.0  | 245.3  | 244.0  | 242.1  | 234.8  | 231.4  | 226.2 |
| 67.5°  | 214.9  | 214.3  | 213.6  | 216.2  | 213.6  | 214.3  | 214.9  | 212.3  | 207.7  | 205.0  | 197.7 |
| 70°    | 185.2  | 185.2  | 184.5  | 185.9  | 184.5  | 185.2  | 185.2  | 183.2  | 180.5  | 178.6  | 172.0 |
| 72.5°  | 153.4  | 152.7  | 155.4  | 153.4  | 155.4  | 152.7  | 153.4  | 152.7  | 151.4  | 149.5  | 142.9 |
| 75°    | 122.4  | 123.6  | 122.4  | 124.3  | 122.4  | 123.6  | 122.4  | 123.0  | 122.4  | 121.0  | 116.3 |
| 77.5°  | 93.3   | 94.6   | 93.3   | 93.3   | 93.3   | 94.6   | 93.3   | 93.9   | 93.9   | 93.9   | 89.9  |
| 80°    | 66.2   | 65.5   | 65.5   | 64.8   | 65.5   | 65.5   | 66.2   | 66.2   | 66.8   | 65.5   | 64.2  |
| 82.5°  | 42.3   | 41.7   | 41.7   | 43.0   | 41.7   | 41.7   | 42.3   | 43.0   | 41.7   | 41.7   | 41.7  |
| 85°    | 23.2   | 23.8   | 22.5   | 22.5   | 22.5   | 23.8   | 23.2   | 21.8   | 23.2   | 23.2   | 22.5  |
| 87.5°  | 8.6    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 8.6    | 9.3    | 9.3    | 9.3    | 10.0  |
| 90°    | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 25.8   | 34.4   | 38.7   | 33.3  |
| 92.5°  | 97.0   | 93.2   | 77.7   | 62.3   | 77.7   | 93.2   | 97.0   | 137.5  | 191.5  | 218.5  | 191.9 |
| 95°    | 329.3  | 317.6  | 270.9  | 224.1  | 270.9  | 317.6  | 329.3  | 432.5  | 569.9  | 638.6  | 539.3 |
| 97.5°  | 760.1  | 737.9  | 649.0  | 560.0  | 649.0  | 737.9  | 760.1  | 825.3  | 912.1  | 955.6  | 790.1 |
| 100°   | 1067.4 | 1040.9 | 935.0  | 829.0  | 935.0  | 1040.9 | 1067.4 | 1062.7 | 1056.3 | 1053.1 | 869.5 |
| 102.5° | 1329.9 | 1307.2 | 1216.4 | 1125.7 | 1216.4 | 1307.2 | 1329.9 | 1246.9 | 1136.2 | 1080.8 | 894.5 |
| 105°   | 1636.2 | 1623.9 | 1575.2 | 1526.4 | 1575.2 | 1623.9 | 1636.2 | 1450.0 | 1201.8 | 1077.7 | 897.4 |
| 107.5° | 1795.4 | 1798.4 | 1810.2 | 1822.0 | 1810.2 | 1798.4 | 1795.4 | 1535.8 | 1189.6 | 1016.5 | 857.4 |
| 110°   | 1836.3 | 1849.0 | 1899.8 | 1950.6 | 1899.8 | 1849.0 | 1836.3 | 1546.0 | 1158.9 | 965.4  | 822.0 |



TEST NUMBER: P935483

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 112.5° | 1810.3 | 1829.8 | 1907.8 | 1985.9 | 1907.8 | 1829.8 | 1810.3 | 1513.2 | 1117.0 | 919.0 | 791.1 |
| 115°   | 1722.0 | 1749.0 | 1857.2 | 1965.5 | 1857.2 | 1749.0 | 1722.0 | 1435.7 | 1054.0 | 863.2 | 755.6 |
| 117.5° | 1599.9 | 1629.9 | 1750.0 | 1869.9 | 1750.0 | 1629.9 | 1599.9 | 1341.6 | 997.1  | 825.0 | 733.5 |
| 120°   | 1517.7 | 1546.9 | 1663.5 | 1780.1 | 1663.5 | 1546.9 | 1517.7 | 1281.7 | 967.1  | 809.7 | 726.0 |
| 122.5° | 1435.5 | 1464.3 | 1579.3 | 1694.3 | 1579.3 | 1464.3 | 1435.5 | 1223.0 | 939.7  | 798.0 | 722.0 |
| 125°   | 1326.8 | 1353.3 | 1459.2 | 1565.2 | 1459.2 | 1353.3 | 1326.8 | 1146.2 | 905.5  | 785.2 | 718.8 |
| 127.5° | 1239.5 | 1261.9 | 1351.2 | 1440.6 | 1351.2 | 1261.9 | 1239.5 | 1084.5 | 877.7  | 774.4 | 716.9 |
| 130°   | 1184.4 | 1205.0 | 1287.6 | 1370.2 | 1287.6 | 1205.0 | 1184.4 | 1046.3 | 862.4  | 770.4 | 718.1 |
| 132.5° | 1137.4 | 1155.9 | 1229.8 | 1303.8 | 1229.8 | 1155.9 | 1137.4 | 1013.9 | 849.1  | 766.8 | 718.8 |
| 135°   | 1071.1 | 1087.1 | 1150.8 | 1214.5 | 1150.8 | 1087.1 | 1071.1 | 967.7  | 829.7  | 760.7 | 718.1 |
| 137.5° | 1022.0 | 1035.0 | 1087.3 | 1139.4 | 1087.3 | 1035.0 | 1022.0 | 934.5  | 817.9  | 759.6 | 722.5 |
| 140°   | 982.7  | 995.0  | 1043.7 | 1092.5 | 1043.7 | 995.0  | 982.7  | 907.2  | 806.4  | 756.1 | 723.3 |
| 142.5° | 955.1  | 965.6  | 1007.6 | 1049.6 | 1007.6 | 965.6  | 955.1  | 888.8  | 800.3  | 756.1 | 725.9 |
| 145°   | 913.8  | 921.8  | 953.6  | 985.3  | 953.6  | 921.8  | 913.8  | 859.5  | 787.1  | 750.9 | 725.9 |
| 147.5° | 879.1  | 885.7  | 912.0  | 938.3  | 912.0  | 885.7  | 879.1  | 836.4  | 779.4  | 750.9 | 730.8 |
| 150°   | 859.2  | 864.5  | 885.9  | 907.2  | 885.9  | 864.5  | 859.2  | 823.1  | 775.0  | 750.9 | 733.5 |
| 152.5° | 843.3  | 847.4  | 863.4  | 879.6  | 863.4  | 847.4  | 843.3  | 812.6  | 771.4  | 750.9 | 735.2 |
| 155°   | 824.5  | 827.2  | 837.8  | 848.5  | 837.8  | 827.2  | 824.5  | 799.9  | 767.3  | 750.9 | 738.9 |
| 157.5° | 808.1  | 810.0  | 817.5  | 825.0  | 817.5  | 810.0  | 808.1  | 789.1  | 763.7  | 750.9 | 742.7 |
| 160°   | 799.9  | 801.0  | 805.4  | 809.7  | 805.4  | 801.0  | 799.9  | 783.6  | 761.8  | 750.9 | 744.3 |
| 162.5° | 792.3  | 793.3  | 797.5  | 801.5  | 797.5  | 793.3  | 792.3  | 778.5  | 760.1  | 750.9 | 746.2 |
| 165°   | 780.5  | 781.6  | 785.9  | 790.3  | 785.9  | 781.6  | 780.5  | 770.7  | 757.5  | 750.9 | 748.8 |
| 167.5° | 775.5  | 776.0  | 777.8  | 779.5  | 777.8  | 776.0  | 775.5  | 769.0  | 760.4  | 756.1 | 754.3 |
| 170°   | 775.5  | 775.5  | 775.5  | 775.5  | 775.5  | 775.5  | 775.5  | 769.0  | 760.4  | 756.1 | 756.0 |
| 172.5° | 771.3  | 771.0  | 769.4  | 767.8  | 769.4  | 771.0  | 771.3  | 766.2  | 759.4  | 756.1 | 756.1 |
| 175°   | 765.7  | 765.7  | 765.7  | 765.7  | 765.7  | 765.7  | 765.7  | 762.5  | 758.2  | 756.1 | 757.1 |
| 177.5° | 764.7  | 764.2  | 762.5  | 760.7  | 762.5  | 764.2  | 764.7  | 762.2  | 758.7  | 757.1 | 757.8 |
| 180°   | 760.7  | 760.7  | 760.7  | 760.7  | 760.7  | 760.7  | 760.7  | 760.7  | 760.7  | 760.7 | 760.7 |



TEST NUMBER: P935483

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 0°     | 699.0 | 699.0  | 699.0 | 699.0 | 699.0 |
| 2.5°   | 690.4 | 693.7  | 695.6 | 698.3 | 704.9 |
| 5°     | 663.9 | 676.5  | 680.4 | 690.4 | 702.2 |
| 7.5°   | 605.7 | 644.1  | 654.6 | 678.5 | 697.0 |
| 10°    | 549.5 | 587.9  | 606.4 | 662.6 | 690.4 |
| 12.5°  | 521.1 | 543.6  | 556.1 | 634.8 | 681.1 |
| 15°    | 503.3 | 519.1  | 528.4 | 597.8 | 670.5 |
| 17.5°  | 489.4 | 500.6  | 507.2 | 561.4 | 656.0 |
| 20°    | 480.8 | 486.0  | 492.0 | 535.0 | 639.4 |
| 22.5°  | 474.8 | 471.5  | 476.1 | 516.5 | 616.9 |
| 25°    | 470.8 | 458.3  | 463.5 | 501.9 | 590.5 |
| 27.5°  | 474.2 | 446.4  | 448.3 | 488.7 | 562.7 |
| 30°    | 474.8 | 431.8  | 432.5 | 474.8 | 531.7 |
| 32.5°  | 470.1 | 416.6  | 417.3 | 457.6 | 496.6 |
| 35°    | 458.9 | 398.7  | 398.0 | 437.8 | 449.0 |
| 37.5°  | 443.7 | 379.6  | 379.6 | 415.9 | 396.8 |
| 40°    | 425.2 | 360.4  | 362.4 | 387.5 | 350.4 |
| 42.5°  | 402.7 | 339.9  | 342.5 | 349.8 | 316.1 |
| 45°    | 378.2 | 320.1  | 322.0 | 295.6 | 289.6 |
| 47.5°  | 351.1 | 299.5  | 300.2 | 245.3 | 281.0 |
| 50°    | 318.8 | 278.3  | 275.8 | 210.3 | 280.4 |
| 52.5°  | 290.3 | 255.3  | 247.3 | 190.4 | 254.6 |
| 55°    | 262.5 | 230.8  | 213.6 | 175.2 | 236.0 |
| 57.5°  | 238.0 | 199.1  | 182.5 | 157.4 | 232.1 |
| 60°    | 215.5 | 167.9  | 155.4 | 138.2 | 213.0 |
| 62.5°  | 197.1 | 144.8  | 142.2 | 125.0 | 193.1 |
| 65°    | 177.2 | 129.0  | 128.3 | 113.8 | 164.0 |
| 67.5°  | 158.1 | 118.3  | 117.7 | 103.1 | 125.0 |
| 70°    | 137.5 | 107.1  | 105.8 | 91.9  | 92.6  |
| 72.5°  | 116.3 | 94.6   | 93.3  | 82.6  | 76.7  |
| 75°    | 95.2  | 80.0   | 79.4  | 72.1  | 62.1  |
| 77.5°  | 74.7  | 63.5   | 64.8  | 58.2  | 45.7  |
| 80°    | 53.5  | 46.2   | 47.6  | 41.7  | 34.4  |
| 82.5°  | 35.7  | 30.5   | 31.7  | 26.4  | 23.2  |
| 85°    | 19.8  | 17.2   | 17.8  | 13.9  | 10.6  |
| 87.5°  | 9.3   | 7.9    | 7.9   | 5.3   | 3.4   |
| 90°    | 22.5  | 14.3   | 13.3  | 9.2   | 5.1   |
| 92.5°  | 138.5 | 98.5   | 89.8  | 55.1  | 20.4  |
| 95°    | 340.9 | 192.0  | 176.1 | 112.5 | 49.0  |
| 97.5°  | 459.1 | 210.8  | 196.8 | 140.7 | 84.7  |
| 100°   | 502.2 | 226.7  | 214.0 | 163.2 | 112.3 |
| 102.5° | 521.9 | 242.5  | 230.6 | 183.2 | 135.8 |
| 105°   | 536.6 | 266.0  | 256.0 | 215.8 | 175.6 |
| 107.5° | 539.3 | 300.7  | 291.4 | 253.9 | 216.4 |
| 110°   | 535.2 | 320.1  | 311.6 | 277.9 | 244.0 |



TEST NUMBER: P935483

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 535.3 | 343.5  | 335.4 | 303.3 | 271.1 |
| 115°   | 540.3 | 378.8  | 371.4 | 341.6 | 311.9 |
| 117.5° | 550.4 | 413.0  | 406.3 | 379.3 | 352.3 |
| 120°   | 558.6 | 433.0  | 426.6 | 401.2 | 375.8 |
| 122.5° | 570.3 | 456.4  | 450.0 | 424.4 | 398.7 |
| 125°   | 586.1 | 486.5  | 480.7 | 457.3 | 433.9 |
| 127.5° | 601.9 | 515.6  | 509.7 | 486.1 | 462.5 |
| 130°   | 613.5 | 535.0  | 528.7 | 503.3 | 477.8 |
| 132.5° | 622.9 | 550.9  | 544.6 | 519.1 | 493.7 |
| 135°   | 633.0 | 569.2  | 563.4 | 540.3 | 517.2 |
| 137.5° | 648.3 | 592.7  | 587.0 | 564.0 | 541.1 |
| 140°   | 657.8 | 608.6  | 603.2 | 582.1 | 561.0 |
| 142.5° | 665.6 | 620.3  | 615.4 | 595.8 | 576.3 |
| 145°   | 675.7 | 638.1  | 633.9 | 616.8 | 599.9 |
| 147.5° | 690.7 | 660.6  | 656.5 | 639.9 | 623.3 |
| 150°   | 698.6 | 672.4  | 668.6 | 653.6 | 638.6 |
| 152.5° | 703.7 | 680.0  | 677.2 | 665.8 | 654.5 |
| 155°   | 714.8 | 696.8  | 694.7 | 686.4 | 678.0 |
| 157.5° | 726.1 | 713.7  | 711.6 | 703.5 | 695.3 |
| 160°   | 731.2 | 721.4  | 719.8 | 713.4 | 707.1 |
| 162.5° | 736.6 | 729.5  | 728.4 | 723.5 | 718.8 |
| 165°   | 744.5 | 741.3  | 740.2 | 735.9 | 731.5 |
| 167.5° | 750.6 | 747.9  | 747.4 | 745.3 | 743.3 |
| 170°   | 755.8 | 755.6  | 755.1 | 753.0 | 750.9 |
| 172.5° | 756.1 | 756.1  | 756.0 | 755.5 | 755.1 |
| 175°   | 759.1 | 760.7  | 760.7 | 760.7 | 760.7 |
| 177.5° | 759.5 | 760.7  | 760.7 | 760.7 | 760.7 |
| 180°   | 760.7 | 760.7  | 760.7 | 760.7 | 760.7 |



TEST NUMBER: P935483  
 CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-3000K

**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 | 8.63             | 9.32  | 9.77  | 10.44 | 12.01 | 11.43          | 12.12 | 12.56 | 13.24 | 14.81 |
|                 | 3H   | 9.10             | 9.71  | 10.24 | 10.84 | 12.43 | 12.75          | 13.37 | 13.89 | 14.50 | 16.08 |
|                 | 4H   | 9.28             | 9.86  | 10.43 | 11.00 | 12.58 | 13.18          | 13.77 | 14.33 | 14.90 | 16.49 |
|                 | 6H   | 9.39             | 9.93  | 10.55 | 11.06 | 12.66 | 13.45          | 13.99 | 14.61 | 15.12 | 16.72 |
|                 | 8H   | 9.39             | 9.90  | 10.55 | 11.05 | 12.64 | 13.52          | 14.03 | 14.68 | 15.18 | 16.77 |
|                 | 12H  | 9.35             | 9.84  | 10.52 | 10.98 | 12.59 | 13.54          | 14.03 | 14.71 | 15.17 | 16.79 |
| 4H              | 2H   | 9.64             | 10.22 | 10.79 | 11.35 | 12.94 | 11.82          | 12.40 | 12.98 | 13.54 | 15.12 |
|                 | 3H   | 10.65            | 11.13 | 11.81 | 12.29 | 13.89 | 13.30          | 13.79 | 14.46 | 14.94 | 16.54 |
|                 | 4H   | 10.91            | 11.36 | 12.08 | 12.51 | 14.13 | 13.81          | 14.26 | 14.98 | 15.41 | 17.03 |
|                 | 6H   | 11.03            | 11.41 | 12.20 | 12.58 | 14.19 | 14.16          | 14.54 | 15.33 | 15.71 | 17.32 |
|                 | 8H   | 11.03            | 11.39 | 12.20 | 12.55 | 14.18 | 14.26          | 14.62 | 15.43 | 15.78 | 17.40 |
|                 | 12H  | 10.99            | 11.32 | 12.18 | 12.49 | 14.12 | 14.30          | 14.63 | 15.49 | 15.80 | 17.43 |
| 8H              | 4H   | 11.35            | 11.71 | 12.52 | 12.87 | 14.49 | 13.92          | 14.28 | 15.09 | 15.44 | 17.07 |
|                 | 6H   | 11.60            | 11.90 | 12.79 | 13.10 | 14.72 | 14.35          | 14.64 | 15.53 | 15.84 | 17.47 |
|                 | 8H   | 11.64            | 11.90 | 12.84 | 13.08 | 14.73 | 14.49          | 14.75 | 15.69 | 15.93 | 17.57 |
|                 | 12H  | 11.62            | 11.85 | 12.82 | 13.03 | 14.70 | 14.57          | 14.80 | 15.77 | 15.98 | 17.65 |
| 12H             | 4H   | 11.35            | 11.67 | 12.53 | 12.84 | 14.47 | 13.88          | 14.20 | 15.07 | 15.38 | 17.01 |
|                 | 6H   | 11.66            | 11.92 | 12.86 | 13.10 | 14.74 | 14.34          | 14.60 | 15.54 | 15.78 | 17.42 |
|                 | 8H   | 11.72            | 11.95 | 12.92 | 13.12 | 14.80 | 14.49          | 14.71 | 15.69 | 15.89 | 17.57 |