

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: P934757

Luminaire Tested: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

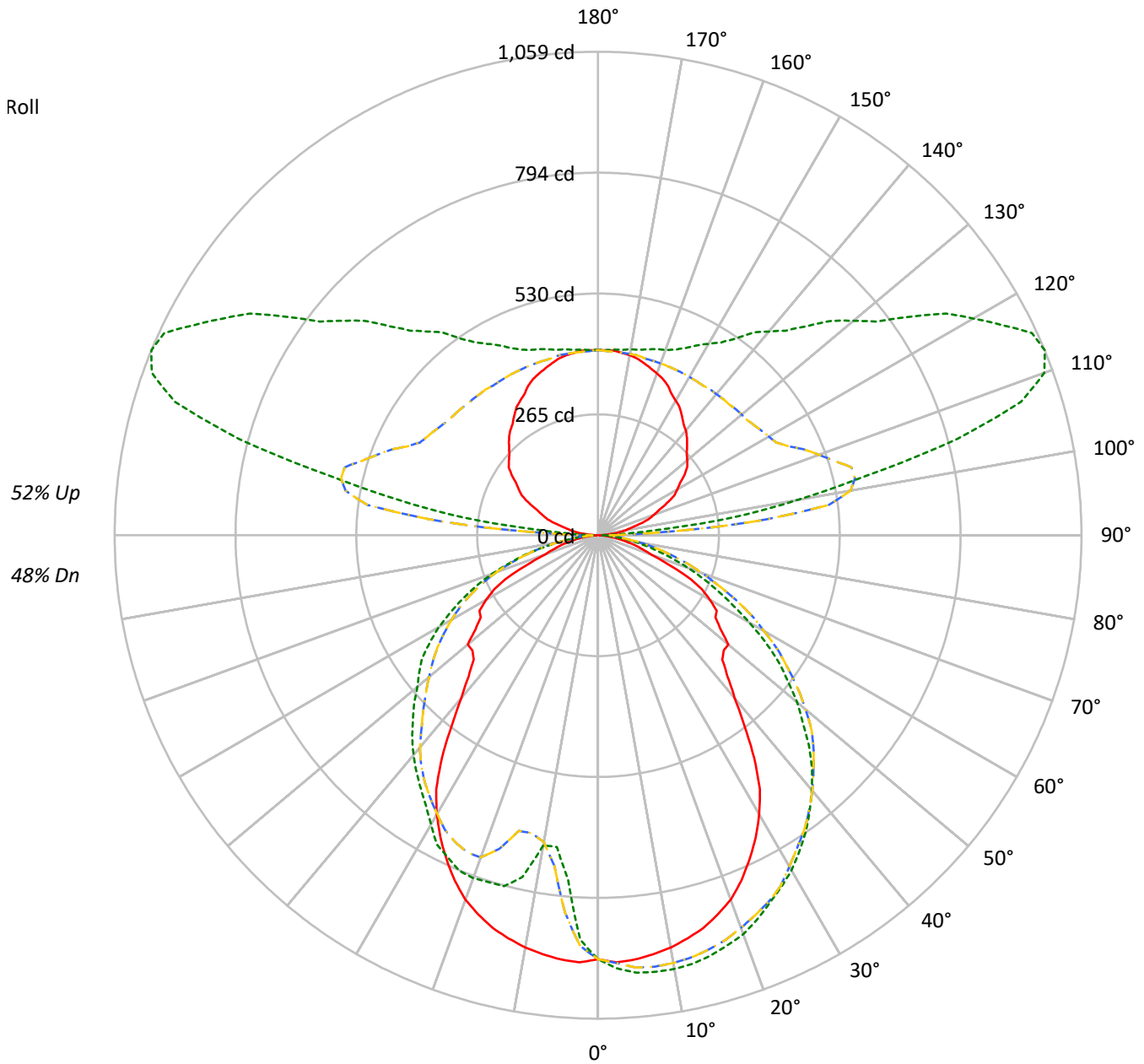
Test Method: LM-79-2019  
Report Number: P934757  
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5038.8 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 42.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 8616 | 8616 | 8616 | 8616 |
| 5°  | 8670 | 8697 | 8670 | 6838 |
| 10° | 8602 | 8568 | 8602 | 6125 |
| 15° | 8500 | 8382 | 8500 | 6998 |
| 20° | 8312 | 8161 | 8312 | 7013 |
| 25° | 7939 | 7840 | 7939 | 6865 |
| 30° | 7459 | 7574 | 7459 | 6538 |
| 35° | 6641 | 7238 | 6641 | 6180 |
| 40° | 5524 | 6841 | 5524 | 5909 |
| 45° | 4926 | 6377 | 4926 | 5597 |
| 50° | 5222 | 5824 | 5222 | 5284 |
| 55° | 4898 | 5228 | 4898 | 5104 |
| 60° | 5031 | 4440 | 5031 | 4674 |
| 65° | 4539 | 3669 | 4539 | 4104 |
| 70° | 3123 | 2924 | 3123 | 3438 |
| 75° | 2709 | 2162 | 2709 | 2588 |
| 80° | 2139 | 1428 | 2139 | 1557 |
| 85° | 1168 | 756  | 1168 | 644  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7564 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.8   | 1.7       |
| 10°-20°   | 238.0  | 4.7       |
| 20°-30°   | 367.8  | 7.3       |
| 30°-40°   | 439.1  | 8.7       |
| 40°-50°   | 441.7  | 8.8       |
| 50°-60°   | 384.4  | 7.6       |
| 60°-70°   | 272.5  | 5.4       |
| 70°-80°   | 144.2  | 2.9       |
| 80°-90°   | 37.4   | 0.7       |
| 90°-100°  | 197.8  | 3.9       |
| 100°-110° | 519.9  | 10.3      |
| 110°-120° | 539.1  | 10.7      |
| 120°-130° | 432.4  | 8.6       |
| 130°-140° | 339.3  | 6.7       |
| 140°-150° | 260.4  | 5.2       |
| 150°-160° | 187.5  | 3.7       |
| 160°-170° | 114.7  | 2.3       |
| 170°-180° | 38.8   | 0.8       |
| 0°-30°    | 689.6  | 13.7      |
| 0°-40°    | 1128.8 | 22.4      |
| 0°-60°    | 1954.8 | 38.8      |
| 0°-90°    | 2408.9 | 47.8      |
| 90°-120°  | 1256.7 | 24.9      |
| 90°-150°  | 2288.8 | 45.4      |
| 90°-180°  | 2630.0 | 52.2      |
| 0°-180°   | 5038.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90°  | 180° | 270° | 360° | Flux |
|------|-----|------|------|------|------|------|
| 0°   | 928 | 928  | 928  | 928  | 928  |      |
| 5°   | 933 | 962  | 933  | 756  | 933  | 88   |
| 15°  | 891 | 953  | 891  | 796  | 891  | 251  |
| 25°  | 784 | 889  | 784  | 778  | 784  | 360  |
| 35°  | 596 | 793  | 596  | 677  | 596  | 369  |
| 45°  | 385 | 654  | 385  | 574  | 385  | 308  |
| 55°  | 314 | 482  | 314  | 471  | 314  | 288  |
| 65°  | 218 | 291  | 218  | 325  | 218  | 208  |
| 75°  | 83  | 138  | 83   | 165  | 83   | 87   |
| 85°  | 14  | 35   | 14   | 30   | 14   | 19   |
| 90°  | 3   | 10   | 3    | 10   | 3    | 3    |
| 95°  | 26  | 120  | 26   | 120  | 26   | 29   |
| 105° | 94  | 814  | 94   | 814  | 94   | 99   |
| 115° | 166 | 1048 | 166  | 1048 | 166  | 164  |
| 125° | 231 | 835  | 231  | 835  | 231  | 205  |
| 135° | 276 | 648  | 276  | 648  | 276  | 213  |
| 145° | 320 | 526  | 320  | 526  | 320  | 200  |
| 155° | 362 | 452  | 362  | 452  | 362  | 166  |
| 165° | 390 | 422  | 390  | 422  | 390  | 110  |
| 175° | 406 | 408  | 406  | 408  | 406  | 39   |
| 180° | 406 | 406  | 406  | 406  | 406  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 |
| 2.5°   | 936.4 | 936.4 | 941.7 | 943.5 | 943.5 | 940.8 | 938.2 | 940.8 | 948.7 | 951.4 | 950.5 |
| 5°     | 932.8 | 940.0 | 949.6 | 951.4 | 953.1 | 952.3 | 950.5 | 952.3 | 961.0 | 962.8 | 963.7 |
| 7.5°   | 925.8 | 939.1 | 951.4 | 954.0 | 956.6 | 954.0 | 953.1 | 954.9 | 963.7 | 965.4 | 965.4 |
| 10°    | 917.0 | 935.5 | 949.6 | 951.4 | 954.0 | 951.4 | 951.4 | 954.9 | 963.7 | 965.4 | 966.3 |
| 12.5°  | 904.7 | 930.2 | 943.5 | 945.2 | 948.7 | 947.9 | 947.0 | 950.5 | 959.3 | 961.0 | 961.0 |
| 15°    | 890.7 | 920.5 | 932.8 | 934.6 | 940.8 | 939.1 | 939.1 | 942.6 | 952.3 | 954.9 | 954.0 |
| 17.5°  | 871.4 | 908.3 | 922.3 | 924.9 | 929.3 | 928.5 | 929.3 | 932.8 | 941.7 | 943.5 | 944.3 |
| 20°    | 849.4 | 891.6 | 908.3 | 910.9 | 915.3 | 915.3 | 915.3 | 919.7 | 928.5 | 932.0 | 932.0 |
| 22.5°  | 819.5 | 874.0 | 891.6 | 893.3 | 898.6 | 898.6 | 900.3 | 906.5 | 914.4 | 915.3 | 915.3 |
| 25°    | 784.4 | 854.7 | 869.6 | 874.9 | 880.1 | 882.8 | 885.4 | 888.9 | 891.6 | 890.7 | 891.6 |
| 27.5°  | 747.5 | 830.1 | 849.4 | 852.9 | 859.9 | 862.6 | 866.1 | 867.0 | 867.8 | 870.5 | 868.7 |
| 30°    | 706.2 | 795.8 | 824.8 | 828.3 | 839.7 | 841.5 | 838.0 | 839.7 | 844.1 | 845.9 | 847.6 |
| 32.5°  | 659.7 | 744.9 | 799.3 | 807.2 | 817.8 | 812.5 | 811.6 | 814.3 | 821.3 | 821.3 | 823.1 |
| 35°    | 596.5 | 705.4 | 775.6 | 782.7 | 790.6 | 784.4 | 787.9 | 788.8 | 793.2 | 795.8 | 795.0 |
| 37.5°  | 527.1 | 671.1 | 751.0 | 756.3 | 762.5 | 754.5 | 759.8 | 762.5 | 766.0 | 764.2 | 764.2 |
| 40°    | 465.6 | 617.5 | 722.1 | 725.6 | 730.8 | 724.7 | 730.0 | 731.7 | 733.5 | 731.7 | 730.8 |
| 42.5°  | 419.9 | 558.7 | 691.3 | 695.7 | 692.2 | 696.6 | 698.3 | 701.9 | 699.2 | 695.7 | 695.7 |
| 45°    | 384.8 | 542.9 | 657.9 | 663.2 | 657.9 | 665.0 | 667.6 | 667.6 | 659.7 | 657.9 | 657.1 |
| 47.5°  | 373.4 | 511.3 | 624.6 | 624.6 | 621.9 | 630.7 | 635.1 | 629.0 | 621.0 | 618.4 | 618.4 |
| 50°    | 372.5 | 476.1 | 578.9 | 575.4 | 587.7 | 598.2 | 593.8 | 587.7 | 581.5 | 571.9 | 571.9 |
| 52.5°  | 338.2 | 433.1 | 520.0 | 533.2 | 552.5 | 558.7 | 551.7 | 545.5 | 535.0 | 530.6 | 527.1 |
| 55°    | 313.6 | 388.3 | 466.5 | 492.8 | 513.0 | 520.9 | 507.7 | 501.6 | 485.8 | 483.2 | 481.4 |
| 57.5°  | 308.3 | 323.3 | 417.3 | 450.7 | 475.2 | 474.4 | 466.5 | 455.0 | 441.9 | 439.2 | 438.4 |
| 60°    | 282.8 | 233.6 | 364.6 | 404.1 | 429.6 | 426.9 | 419.9 | 409.4 | 397.1 | 395.3 | 393.6 |
| 62.5°  | 256.5 | 169.5 | 304.8 | 349.7 | 385.7 | 384.8 | 378.6 | 362.8 | 354.0 | 349.7 | 346.1 |
| 65°    | 217.8 | 142.3 | 216.9 | 290.7 | 342.6 | 344.4 | 331.2 | 319.8 | 310.0 | 304.8 | 303.9 |
| 67.5°  | 166.0 | 115.9 | 146.7 | 242.4 | 301.3 | 299.5 | 282.8 | 277.5 | 265.2 | 262.6 | 257.3 |
| 70°    | 123.0 | 77.3  | 101.9 | 196.7 | 260.9 | 256.5 | 243.3 | 237.1 | 225.7 | 219.6 | 216.1 |
| 72.5°  | 101.9 | 62.4  | 74.7  | 152.8 | 219.6 | 214.3 | 202.9 | 195.9 | 186.2 | 180.9 | 177.4 |
| 75°    | 82.6  | 65.9  | 57.1  | 113.3 | 178.3 | 174.8 | 164.2 | 157.2 | 149.3 | 142.3 | 143.2 |
| 77.5°  | 60.6  | 61.5  | 45.7  | 83.4  | 141.4 | 136.1 | 130.0 | 121.2 | 117.7 | 110.7 | 110.7 |
| 80°    | 45.7  | 48.3  | 34.3  | 57.1  | 101.9 | 101.9 | 96.6  | 90.5  | 84.3  | 80.8  | 80.8  |
| 82.5°  | 30.7  | 30.7  | 25.5  | 36.0  | 69.4  | 66.8  | 63.2  | 61.5  | 58.0  | 56.2  | 56.2  |
| 85°    | 14.1  | 17.6  | 15.8  | 22.0  | 37.8  | 39.5  | 39.5  | 37.8  | 36.9  | 35.1  | 36.0  |
| 87.5°  | 4.4   | 7.9   | 9.7   | 12.3  | 19.3  | 20.2  | 21.1  | 21.1  | 21.1  | 22.0  | 22.0  |
| 90°    | 2.7   | 4.9   | 7.1   | 7.6   | 12.0  | 17.8  | 20.7  | 18.4  | 13.8  | 10.4  | 10.4  |
| 92.5°  | 10.9  | 29.4  | 47.9  | 52.5  | 73.9  | 102.3 | 116.6 | 102.1 | 73.3  | 51.7  | 49.7  |
| 95°    | 26.2  | 60.1  | 94.0  | 102.4 | 181.8 | 287.6 | 340.6 | 303.9 | 230.6 | 175.6 | 169.3 |
| 97.5°  | 45.2  | 75.1  | 105.0 | 112.4 | 244.9 | 421.4 | 509.7 | 486.5 | 440.2 | 405.4 | 393.6 |
| 100°   | 59.9  | 87.0  | 114.1 | 120.9 | 267.8 | 463.7 | 561.7 | 563.3 | 566.8 | 569.3 | 555.2 |
| 102.5° | 72.5  | 97.8  | 123.0 | 129.3 | 278.3 | 477.1 | 576.4 | 605.9 | 665.0 | 709.2 | 697.1 |
| 105°   | 93.6  | 115.1 | 136.5 | 141.8 | 286.2 | 478.6 | 574.8 | 641.0 | 773.3 | 872.6 | 866.1 |
| 107.5° | 115.4 | 135.4 | 155.4 | 160.4 | 287.6 | 457.2 | 542.1 | 634.4 | 819.0 | 957.5 | 959.1 |
| 110°   | 130.2 | 148.2 | 166.3 | 170.7 | 285.4 | 438.4 | 514.9 | 618.1 | 824.5 | 979.3 | 986.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 144.6 | 161.8 | 178.9 | 183.2 | 285.5 | 421.9 | 490.1 | 595.8 | 807.0 | 965.4 | 975.9 |
| 115°   | 166.4 | 182.2 | 198.1 | 202.0 | 288.2 | 403.0 | 460.4 | 562.2 | 765.7 | 918.4 | 932.8 |
| 117.5° | 187.9 | 202.3 | 216.7 | 220.3 | 293.5 | 391.1 | 439.9 | 531.8 | 715.5 | 853.3 | 869.3 |
| 120°   | 200.4 | 214.0 | 227.5 | 230.9 | 297.8 | 387.2 | 431.8 | 515.7 | 683.6 | 809.4 | 825.0 |
| 122.5° | 212.6 | 226.3 | 240.0 | 243.4 | 304.1 | 385.0 | 425.5 | 501.1 | 652.2 | 765.6 | 781.0 |
| 125°   | 231.4 | 243.9 | 256.4 | 259.5 | 312.6 | 383.4 | 418.8 | 483.0 | 611.4 | 707.6 | 721.8 |
| 127.5° | 246.7 | 259.3 | 271.8 | 275.0 | 321.0 | 382.4 | 413.1 | 468.2 | 578.4 | 661.1 | 673.0 |
| 130°   | 254.9 | 268.4 | 281.9 | 285.4 | 327.2 | 382.9 | 410.9 | 460.0 | 558.1 | 631.7 | 642.7 |
| 132.5° | 263.3 | 276.8 | 290.4 | 293.8 | 332.2 | 383.4 | 408.9 | 452.9 | 540.8 | 606.6 | 616.5 |
| 135°   | 275.8 | 288.1 | 300.5 | 303.5 | 337.6 | 383.0 | 405.7 | 442.5 | 516.1 | 571.2 | 579.8 |
| 137.5° | 288.6 | 300.8 | 313.0 | 316.1 | 345.8 | 385.4 | 405.2 | 436.3 | 498.4 | 545.1 | 552.0 |
| 140°   | 299.2 | 310.5 | 321.7 | 324.5 | 350.8 | 385.7 | 403.2 | 430.1 | 483.8 | 524.1 | 530.6 |
| 142.5° | 307.4 | 317.8 | 328.1 | 330.8 | 354.9 | 387.2 | 403.2 | 426.9 | 474.0 | 509.4 | 515.0 |
| 145°   | 319.9 | 329.0 | 338.1 | 340.3 | 360.4 | 387.2 | 400.5 | 419.8 | 458.4 | 487.4 | 491.6 |
| 147.5° | 332.4 | 341.2 | 350.1 | 352.3 | 368.4 | 389.8 | 400.5 | 415.7 | 446.1 | 468.8 | 472.4 |
| 150°   | 340.6 | 348.6 | 356.6 | 358.6 | 372.6 | 391.2 | 400.5 | 413.3 | 439.0 | 458.2 | 461.0 |
| 152.5° | 349.0 | 355.1 | 361.2 | 362.7 | 375.3 | 392.1 | 400.5 | 411.5 | 433.4 | 449.8 | 451.9 |
| 155°   | 361.6 | 366.1 | 370.5 | 371.6 | 381.3 | 394.1 | 400.5 | 409.2 | 426.6 | 439.7 | 441.1 |
| 157.5° | 370.8 | 375.2 | 379.6 | 380.7 | 387.2 | 396.1 | 400.5 | 407.3 | 420.8 | 431.0 | 431.9 |
| 160°   | 377.1 | 380.5 | 383.8 | 384.7 | 390.0 | 397.0 | 400.5 | 406.3 | 418.0 | 426.7 | 427.2 |
| 162.5° | 383.4 | 385.9 | 388.5 | 389.1 | 392.9 | 398.0 | 400.5 | 405.4 | 415.2 | 422.6 | 423.1 |
| 165°   | 390.1 | 392.4 | 394.7 | 395.3 | 397.1 | 399.4 | 400.5 | 404.0 | 411.0 | 416.3 | 416.9 |
| 167.5° | 396.4 | 397.4 | 398.6 | 398.8 | 400.3 | 402.3 | 403.2 | 405.5 | 410.2 | 413.6 | 413.9 |
| 170°   | 400.5 | 401.6 | 402.7 | 403.0 | 403.1 | 403.1 | 403.2 | 405.5 | 410.2 | 413.6 | 413.6 |
| 172.5° | 402.7 | 403.0 | 403.1 | 403.2 | 403.2 | 403.2 | 403.2 | 405.1 | 408.7 | 411.4 | 411.2 |
| 175°   | 405.7 | 405.7 | 405.7 | 405.7 | 404.9 | 403.8 | 403.2 | 404.4 | 406.7 | 408.4 | 408.4 |
| 177.5° | 405.7 | 405.7 | 405.7 | 405.7 | 405.1 | 404.2 | 403.8 | 404.6 | 406.5 | 407.9 | 407.6 |
| 180°   | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 |



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CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|-------|--------|
| 0°     | 928.5  | 928.5  | 928.5  | 928.5 | 928.5  | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5  |
| 2.5°   | 952.3  | 949.6  | 952.3  | 950.5 | 951.4  | 948.7 | 940.8 | 938.2 | 940.8 | 943.5 | 943.5  |
| 5°     | 963.7  | 961.9  | 963.7  | 963.7 | 962.8  | 961.0 | 952.3 | 950.5 | 952.3 | 953.1 | 951.4  |
| 7.5°   | 967.2  | 964.6  | 967.2  | 965.4 | 965.4  | 963.7 | 954.9 | 953.1 | 954.0 | 956.6 | 954.0  |
| 10°    | 967.2  | 964.6  | 967.2  | 966.3 | 965.4  | 963.7 | 954.9 | 951.4 | 951.4 | 954.0 | 951.4  |
| 12.5°  | 962.8  | 961.0  | 962.8  | 961.0 | 961.0  | 959.3 | 950.5 | 947.0 | 947.9 | 948.7 | 945.2  |
| 15°    | 955.8  | 953.1  | 955.8  | 954.0 | 954.9  | 952.3 | 942.6 | 939.1 | 939.1 | 940.8 | 934.6  |
| 17.5°  | 945.2  | 941.7  | 945.2  | 944.3 | 943.5  | 941.7 | 932.8 | 929.3 | 928.5 | 929.3 | 924.9  |
| 20°    | 932.8  | 930.2  | 932.8  | 932.0 | 932.0  | 928.5 | 919.7 | 915.3 | 915.3 | 915.3 | 910.9  |
| 22.5°  | 913.5  | 910.9  | 913.5  | 915.3 | 915.3  | 914.4 | 906.5 | 900.3 | 898.6 | 898.6 | 893.3  |
| 25°    | 891.6  | 888.9  | 891.6  | 891.6 | 890.7  | 891.6 | 888.9 | 885.4 | 882.8 | 880.1 | 874.9  |
| 27.5°  | 870.5  | 868.7  | 870.5  | 868.7 | 870.5  | 867.8 | 867.0 | 866.1 | 862.6 | 859.9 | 852.9  |
| 30°    | 849.4  | 847.6  | 849.4  | 847.6 | 845.9  | 844.1 | 839.7 | 838.0 | 841.5 | 839.7 | 828.3  |
| 32.5°  | 823.1  | 821.3  | 823.1  | 823.1 | 821.3  | 821.3 | 814.3 | 811.6 | 812.5 | 817.8 | 807.2  |
| 35°    | 795.8  | 793.2  | 795.8  | 795.0 | 795.8  | 793.2 | 788.8 | 787.9 | 784.4 | 790.6 | 782.7  |
| 37.5°  | 764.2  | 761.6  | 764.2  | 764.2 | 764.2  | 766.0 | 762.5 | 759.8 | 754.5 | 762.5 | 756.3  |
| 40°    | 731.7  | 728.2  | 731.7  | 730.8 | 731.7  | 733.5 | 731.7 | 730.0 | 724.7 | 730.8 | 725.6  |
| 42.5°  | 694.8  | 693.9  | 694.8  | 695.7 | 695.7  | 699.2 | 701.9 | 698.3 | 696.6 | 692.2 | 695.7  |
| 45°    | 655.3  | 653.5  | 655.3  | 657.1 | 657.9  | 659.7 | 667.6 | 667.6 | 665.0 | 657.9 | 663.2  |
| 47.5°  | 613.1  | 608.8  | 613.1  | 618.4 | 618.4  | 621.0 | 629.0 | 635.1 | 630.7 | 621.9 | 624.6  |
| 50°    | 568.3  | 569.2  | 568.3  | 571.9 | 571.9  | 581.5 | 587.7 | 593.8 | 598.2 | 587.7 | 575.4  |
| 52.5°  | 524.4  | 523.6  | 524.4  | 527.1 | 530.6  | 535.0 | 545.5 | 551.7 | 558.7 | 552.5 | 533.2  |
| 55°    | 480.5  | 482.3  | 480.5  | 481.4 | 483.2  | 485.8 | 501.6 | 507.7 | 520.9 | 513.0 | 492.8  |
| 57.5°  | 436.6  | 434.0  | 436.6  | 438.4 | 439.2  | 441.9 | 455.0 | 466.5 | 474.4 | 475.2 | 450.7  |
| 60°    | 385.7  | 382.1  | 385.7  | 393.6 | 395.3  | 397.1 | 409.4 | 419.9 | 426.9 | 429.6 | 404.1  |
| 62.5°  | 340.9  | 334.7  | 340.9  | 346.1 | 349.7  | 354.0 | 362.8 | 378.6 | 384.8 | 385.7 | 349.7  |
| 65°    | 293.4  | 290.7  | 293.4  | 303.9 | 304.8  | 310.0 | 319.8 | 331.2 | 344.4 | 342.6 | 290.7  |
| 67.5°  | 250.3  | 250.3  | 250.3  | 257.3 | 262.6  | 265.2 | 277.5 | 282.8 | 299.5 | 301.3 | 242.4  |
| 70°    | 210.8  | 209.9  | 210.8  | 216.1 | 219.6  | 225.7 | 237.1 | 243.3 | 256.5 | 260.9 | 196.7  |
| 72.5°  | 173.0  | 172.1  | 173.0  | 177.4 | 180.9  | 186.2 | 195.9 | 202.9 | 214.3 | 219.6 | 152.8  |
| 75°    | 139.6  | 137.9  | 139.6  | 143.2 | 142.3  | 149.3 | 157.2 | 164.2 | 174.8 | 178.3 | 113.3  |
| 77.5°  | 107.2  | 107.2  | 107.2  | 110.7 | 110.7  | 117.7 | 121.2 | 130.0 | 136.1 | 141.4 | 83.4   |
| 80°    | 79.9   | 79.0   | 79.9   | 80.8  | 80.8   | 84.3  | 90.5  | 96.6  | 101.9 | 101.9 | 57.1   |
| 82.5°  | 56.2   | 54.5   | 56.2   | 56.2  | 56.2   | 58.0  | 61.5  | 63.2  | 66.8  | 69.4  | 36.0   |
| 85°    | 35.1   | 35.1   | 35.1   | 36.0  | 35.1   | 36.9  | 37.8  | 39.5  | 39.5  | 37.8  | 22.0   |
| 87.5°  | 22.8   | 22.0   | 22.8   | 22.0  | 22.0   | 21.1  | 21.1  | 21.1  | 20.2  | 19.3  | 12.3   |
| 90°    | 10.4   | 10.4   | 10.4   | 10.4  | 10.4   | 13.8  | 18.4  | 20.7  | 17.8  | 12.0  | 7.6    |
| 92.5°  | 41.5   | 33.2   | 41.5   | 49.7  | 51.7   | 73.3  | 102.1 | 116.6 | 102.3 | 73.9  | 52.5   |
| 95°    | 144.5  | 119.5  | 144.5  | 169.3 | 175.6  | 230.6 | 303.9 | 340.6 | 287.6 | 181.8 | 102.4  |
| 97.5°  | 346.1  | 298.7  | 346.1  | 393.6 | 405.4  | 440.2 | 486.5 | 509.7 | 421.4 | 244.9 | 112.4  |
| 100°   | 498.7  | 442.1  | 498.7  | 555.2 | 569.3  | 566.8 | 563.3 | 561.7 | 463.7 | 267.8 | 120.9  |
| 102.5° | 648.7  | 600.3  | 648.7  | 697.1 | 709.2  | 665.0 | 605.9 | 576.4 | 477.1 | 278.3 | 129.3  |
| 105°   | 840.1  | 814.1  | 840.1  | 866.1 | 872.6  | 773.3 | 641.0 | 574.8 | 478.6 | 286.2 | 141.8  |
| 107.5° | 965.4  | 971.8  | 965.4  | 959.1 | 957.5  | 819.0 | 634.4 | 542.1 | 457.2 | 287.6 | 160.4  |
| 110°   | 1013.2 | 1040.3 | 1013.2 | 986.1 | 979.3  | 824.5 | 618.1 | 514.9 | 438.4 | 285.4 | 170.7  |





TEST NUMBER: P934757

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 1017.5 | 1059.1 | 1017.5 | 975.9 | 965.4  | 807.0 | 595.8 | 490.1 | 421.9 | 285.5 | 183.2  |
| 115°   | 990.5  | 1048.3 | 990.5  | 932.8 | 918.4  | 765.7 | 562.2 | 460.4 | 403.0 | 288.2 | 202.0  |
| 117.5° | 933.3  | 997.3  | 933.3  | 869.3 | 853.3  | 715.5 | 531.8 | 439.9 | 391.1 | 293.5 | 220.3  |
| 120°   | 887.2  | 949.4  | 887.2  | 825.0 | 809.4  | 683.6 | 515.7 | 431.8 | 387.2 | 297.8 | 230.9  |
| 122.5° | 842.3  | 903.7  | 842.3  | 781.0 | 765.6  | 652.2 | 501.1 | 425.5 | 385.0 | 304.1 | 243.4  |
| 125°   | 778.3  | 834.7  | 778.3  | 721.8 | 707.6  | 611.4 | 483.0 | 418.8 | 383.4 | 312.6 | 259.5  |
| 127.5° | 720.6  | 768.3  | 720.6  | 673.0 | 661.1  | 578.4 | 468.2 | 413.1 | 382.4 | 321.0 | 275.0  |
| 130°   | 686.7  | 730.7  | 686.7  | 642.7 | 631.7  | 558.1 | 460.0 | 410.9 | 382.9 | 327.2 | 285.4  |
| 132.5° | 655.9  | 695.4  | 655.9  | 616.5 | 606.6  | 540.8 | 452.9 | 408.9 | 383.4 | 332.2 | 293.8  |
| 135°   | 613.8  | 647.7  | 613.8  | 579.8 | 571.2  | 516.1 | 442.5 | 405.7 | 383.0 | 337.6 | 303.5  |
| 137.5° | 579.9  | 607.7  | 579.9  | 552.0 | 545.1  | 498.4 | 436.3 | 405.2 | 385.4 | 345.8 | 316.1  |
| 140°   | 556.7  | 582.7  | 556.7  | 530.6 | 524.1  | 483.8 | 430.1 | 403.2 | 385.7 | 350.8 | 324.5  |
| 142.5° | 537.3  | 559.7  | 537.3  | 515.0 | 509.4  | 474.0 | 426.9 | 403.2 | 387.2 | 354.9 | 330.8  |
| 145°   | 508.5  | 525.5  | 508.5  | 491.6 | 487.4  | 458.4 | 419.8 | 400.5 | 387.2 | 360.4 | 340.3  |
| 147.5° | 486.4  | 500.5  | 486.4  | 472.4 | 468.8  | 446.1 | 415.7 | 400.5 | 389.8 | 368.4 | 352.3  |
| 150°   | 472.4  | 483.9  | 472.4  | 461.0 | 458.2  | 439.0 | 413.3 | 400.5 | 391.2 | 372.6 | 358.6  |
| 152.5° | 460.5  | 469.1  | 460.5  | 451.9 | 449.8  | 433.4 | 411.5 | 400.5 | 392.1 | 375.3 | 362.7  |
| 155°   | 446.8  | 452.5  | 446.8  | 441.1 | 439.7  | 426.6 | 409.2 | 400.5 | 394.1 | 381.3 | 371.6  |
| 157.5° | 436.0  | 439.9  | 436.0  | 431.9 | 431.0  | 420.8 | 407.3 | 400.5 | 396.1 | 387.2 | 380.7  |
| 160°   | 429.5  | 431.8  | 429.5  | 427.2 | 426.7  | 418.0 | 406.3 | 400.5 | 397.0 | 390.0 | 384.7  |
| 162.5° | 425.3  | 427.5  | 425.3  | 423.1 | 422.6  | 415.2 | 405.4 | 400.5 | 398.0 | 392.9 | 389.1  |
| 165°   | 419.2  | 421.5  | 419.2  | 416.9 | 416.3  | 411.0 | 404.0 | 400.5 | 399.4 | 397.1 | 395.3  |
| 167.5° | 414.8  | 415.8  | 414.8  | 413.9 | 413.6  | 410.2 | 405.5 | 403.2 | 402.3 | 400.3 | 398.8  |
| 170°   | 413.6  | 413.6  | 413.6  | 413.6 | 413.6  | 410.2 | 405.5 | 403.2 | 403.1 | 403.1 | 403.0  |
| 172.5° | 410.3  | 409.5  | 410.3  | 411.2 | 411.4  | 408.7 | 405.1 | 403.2 | 403.2 | 403.2 | 403.2  |
| 175°   | 408.4  | 408.4  | 408.4  | 408.4 | 408.4  | 406.7 | 404.4 | 403.2 | 403.8 | 404.9 | 405.7  |
| 177.5° | 406.7  | 405.7  | 406.7  | 407.6 | 407.9  | 406.5 | 404.6 | 403.8 | 404.2 | 405.1 | 405.7  |
| 180°   | 405.7  | 405.7  | 405.7  | 405.7 | 405.7  | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 | 405.7  |



TEST NUMBER: P934757

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°     | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5  | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 |
| 2.5°   | 941.7 | 936.4 | 936.4 | 927.6 | 924.1 | 921.4  | 917.0 | 903.9 | 900.3 | 896.8 | 902.1 |
| 5°     | 949.6 | 940.0 | 932.8 | 917.0 | 903.9 | 898.6  | 881.9 | 850.3 | 829.2 | 813.4 | 804.6 |
| 7.5°   | 951.4 | 939.1 | 925.8 | 901.2 | 869.6 | 855.6  | 804.6 | 746.6 | 730.8 | 716.8 | 708.0 |
| 10°    | 949.6 | 935.5 | 917.0 | 880.1 | 805.5 | 780.9  | 730.0 | 692.2 | 682.5 | 679.9 | 682.5 |
| 12.5°  | 943.5 | 930.2 | 904.7 | 843.3 | 738.7 | 722.1  | 692.2 | 670.2 | 668.5 | 672.9 | 696.6 |
| 15°    | 932.8 | 920.5 | 890.7 | 794.1 | 701.9 | 689.6  | 668.5 | 660.6 | 670.2 | 701.0 | 772.1 |
| 17.5°  | 922.3 | 908.3 | 871.4 | 745.8 | 673.7 | 665.0  | 650.0 | 665.8 | 720.3 | 761.6 | 785.3 |
| 20°    | 908.3 | 891.6 | 849.4 | 710.6 | 653.5 | 645.6  | 638.6 | 709.8 | 751.0 | 766.0 | 779.1 |
| 22.5°  | 891.6 | 874.0 | 819.5 | 686.0 | 632.5 | 626.3  | 630.7 | 734.3 | 751.0 | 761.6 | 773.0 |
| 25°    | 869.6 | 854.7 | 784.4 | 666.7 | 615.8 | 608.8  | 625.4 | 731.7 | 741.4 | 744.0 | 766.8 |
| 27.5°  | 849.4 | 830.1 | 747.5 | 649.2 | 595.6 | 592.9  | 629.8 | 720.3 | 727.3 | 730.0 | 754.5 |
| 30°    | 824.8 | 795.8 | 706.2 | 630.7 | 574.5 | 573.6  | 630.7 | 706.2 | 704.5 | 711.5 | 736.1 |
| 32.5°  | 799.3 | 744.9 | 659.7 | 607.9 | 554.3 | 553.4  | 624.6 | 685.2 | 683.4 | 693.1 | 711.5 |
| 35°    | 775.6 | 705.4 | 596.5 | 581.5 | 528.8 | 529.7  | 609.6 | 660.6 | 661.4 | 670.2 | 681.6 |
| 37.5°  | 751.0 | 671.1 | 527.1 | 552.5 | 504.2 | 504.2  | 589.4 | 637.7 | 636.0 | 638.6 | 654.4 |
| 40°    | 722.1 | 617.5 | 465.6 | 514.8 | 481.4 | 478.8  | 564.8 | 613.1 | 607.0 | 606.1 | 628.1 |
| 42.5°  | 691.3 | 558.7 | 419.9 | 464.7 | 455.0 | 451.5  | 535.0 | 583.3 | 571.9 | 574.5 | 602.6 |
| 45°    | 657.9 | 542.9 | 384.8 | 392.7 | 427.8 | 425.2  | 502.5 | 549.0 | 541.1 | 548.1 | 577.1 |
| 47.5°  | 624.6 | 511.3 | 373.4 | 325.9 | 398.8 | 398.0  | 466.5 | 515.7 | 511.3 | 518.3 | 549.0 |
| 50°    | 578.9 | 476.1 | 372.5 | 279.3 | 366.3 | 369.9  | 423.4 | 483.2 | 483.2 | 489.3 | 521.8 |
| 52.5°  | 520.0 | 433.1 | 338.2 | 253.0 | 328.6 | 339.1  | 385.7 | 455.0 | 456.8 | 463.0 | 491.9 |
| 55°    | 466.5 | 388.3 | 313.6 | 232.7 | 283.7 | 306.5  | 348.8 | 426.1 | 429.6 | 435.7 | 462.1 |
| 57.5°  | 417.3 | 323.3 | 308.3 | 209.0 | 242.4 | 264.4  | 316.3 | 398.0 | 399.7 | 405.0 | 430.5 |
| 60°    | 364.6 | 233.6 | 282.8 | 183.6 | 206.4 | 223.1  | 286.3 | 364.6 | 370.7 | 374.2 | 396.2 |
| 62.5°  | 304.8 | 169.5 | 256.5 | 166.0 | 188.8 | 192.3  | 261.7 | 333.0 | 340.9 | 343.5 | 356.7 |
| 65°    | 216.9 | 142.3 | 217.8 | 151.1 | 170.4 | 171.3  | 235.4 | 300.4 | 307.4 | 311.8 | 321.5 |
| 67.5°  | 146.7 | 115.9 | 166.0 | 137.0 | 156.3 | 157.2  | 209.9 | 262.6 | 272.3 | 275.8 | 281.9 |
| 70°    | 101.9 | 77.3  | 123.0 | 122.1 | 140.5 | 142.3  | 182.7 | 228.4 | 237.1 | 239.8 | 243.3 |
| 72.5°  | 74.7  | 62.4  | 101.9 | 109.8 | 123.8 | 125.6  | 154.6 | 189.7 | 198.5 | 201.1 | 202.9 |
| 75°    | 57.1  | 65.9  | 82.6  | 95.7  | 105.4 | 106.3  | 126.5 | 154.6 | 160.7 | 162.5 | 163.4 |
| 77.5°  | 45.7  | 61.5  | 60.6  | 77.3  | 86.1  | 84.3   | 99.2  | 119.4 | 124.7 | 124.7 | 124.7 |
| 80°    | 34.3  | 48.3  | 45.7  | 55.3  | 63.2  | 61.5   | 71.1  | 85.2  | 87.0  | 88.7  | 87.8  |
| 82.5°  | 25.5  | 30.7  | 30.7  | 35.1  | 42.2  | 40.4   | 47.4  | 55.3  | 55.3  | 55.3  | 57.1  |
| 85°    | 15.8  | 17.6  | 14.1  | 18.4  | 23.7  | 22.8   | 26.3  | 29.9  | 30.7  | 30.7  | 29.0  |
| 87.5°  | 9.7   | 7.9   | 4.4   | 7.0   | 10.5  | 10.5   | 12.3  | 13.2  | 12.3  | 12.3  | 12.3  |
| 90°    | 7.1   | 4.9   | 2.7   | 4.9   | 7.1   | 7.6    | 12.0  | 17.8  | 20.7  | 18.4  | 13.8  |
| 92.5°  | 47.9  | 29.4  | 10.9  | 29.4  | 47.9  | 52.5   | 73.9  | 102.3 | 116.6 | 102.1 | 73.3  |
| 95°    | 94.0  | 60.1  | 26.2  | 60.1  | 94.0  | 102.4  | 181.8 | 287.6 | 340.6 | 303.9 | 230.6 |
| 97.5°  | 105.0 | 75.1  | 45.2  | 75.1  | 105.0 | 112.4  | 244.9 | 421.4 | 509.7 | 486.5 | 440.2 |
| 100°   | 114.1 | 87.0  | 59.9  | 87.0  | 114.1 | 120.9  | 267.8 | 463.7 | 561.7 | 563.3 | 566.8 |
| 102.5° | 123.0 | 97.8  | 72.5  | 97.8  | 123.0 | 129.3  | 278.3 | 477.1 | 576.4 | 605.9 | 665.0 |
| 105°   | 136.5 | 115.1 | 93.6  | 115.1 | 136.5 | 141.8  | 286.2 | 478.6 | 574.8 | 641.0 | 773.3 |
| 107.5° | 155.4 | 135.4 | 115.4 | 135.4 | 155.4 | 160.4  | 287.6 | 457.2 | 542.1 | 634.4 | 819.0 |
| 110°   | 166.3 | 148.2 | 130.2 | 148.2 | 166.3 | 170.7  | 285.4 | 438.4 | 514.9 | 618.1 | 824.5 |



TEST NUMBER: P934757

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 178.9 | 161.8 | 144.6 | 161.8 | 178.9 | 183.2  | 285.5 | 421.9 | 490.1 | 595.8 | 807.0 |
| 115°   | 198.1 | 182.2 | 166.4 | 182.2 | 198.1 | 202.0  | 288.2 | 403.0 | 460.4 | 562.2 | 765.7 |
| 117.5° | 216.7 | 202.3 | 187.9 | 202.3 | 216.7 | 220.3  | 293.5 | 391.1 | 439.9 | 531.8 | 715.5 |
| 120°   | 227.5 | 214.0 | 200.4 | 214.0 | 227.5 | 230.9  | 297.8 | 387.2 | 431.8 | 515.7 | 683.6 |
| 122.5° | 240.0 | 226.3 | 212.6 | 226.3 | 240.0 | 243.4  | 304.1 | 385.0 | 425.5 | 501.1 | 652.2 |
| 125°   | 256.4 | 243.9 | 231.4 | 243.9 | 256.4 | 259.5  | 312.6 | 383.4 | 418.8 | 483.0 | 611.4 |
| 127.5° | 271.8 | 259.3 | 246.7 | 259.3 | 271.8 | 275.0  | 321.0 | 382.4 | 413.1 | 468.2 | 578.4 |
| 130°   | 281.9 | 268.4 | 254.9 | 268.4 | 281.9 | 285.4  | 327.2 | 382.9 | 410.9 | 460.0 | 558.1 |
| 132.5° | 290.4 | 276.8 | 263.3 | 276.8 | 290.4 | 293.8  | 332.2 | 383.4 | 408.9 | 452.9 | 540.8 |
| 135°   | 300.5 | 288.1 | 275.8 | 288.1 | 300.5 | 303.5  | 337.6 | 383.0 | 405.7 | 442.5 | 516.1 |
| 137.5° | 313.0 | 300.8 | 288.6 | 300.8 | 313.0 | 316.1  | 345.8 | 385.4 | 405.2 | 436.3 | 498.4 |
| 140°   | 321.7 | 310.5 | 299.2 | 310.5 | 321.7 | 324.5  | 350.8 | 385.7 | 403.2 | 430.1 | 483.8 |
| 142.5° | 328.1 | 317.8 | 307.4 | 317.8 | 328.1 | 330.8  | 354.9 | 387.2 | 403.2 | 426.9 | 474.0 |
| 145°   | 338.1 | 329.0 | 319.9 | 329.0 | 338.1 | 340.3  | 360.4 | 387.2 | 400.5 | 419.8 | 458.4 |
| 147.5° | 350.1 | 341.2 | 332.4 | 341.2 | 350.1 | 352.3  | 368.4 | 389.8 | 400.5 | 415.7 | 446.1 |
| 150°   | 356.6 | 348.6 | 340.6 | 348.6 | 356.6 | 358.6  | 372.6 | 391.2 | 400.5 | 413.3 | 439.0 |
| 152.5° | 361.2 | 355.1 | 349.0 | 355.1 | 361.2 | 362.7  | 375.3 | 392.1 | 400.5 | 411.5 | 433.4 |
| 155°   | 370.5 | 366.1 | 361.6 | 366.1 | 370.5 | 371.6  | 381.3 | 394.1 | 400.5 | 409.2 | 426.6 |
| 157.5° | 379.6 | 375.2 | 370.8 | 375.2 | 379.6 | 380.7  | 387.2 | 396.1 | 400.5 | 407.3 | 420.8 |
| 160°   | 383.8 | 380.5 | 377.1 | 380.5 | 383.8 | 384.7  | 390.0 | 397.0 | 400.5 | 406.3 | 418.0 |
| 162.5° | 388.5 | 385.9 | 383.4 | 385.9 | 388.5 | 389.1  | 392.9 | 398.0 | 400.5 | 405.4 | 415.2 |
| 165°   | 394.7 | 392.4 | 390.1 | 392.4 | 394.7 | 395.3  | 397.1 | 399.4 | 400.5 | 404.0 | 411.0 |
| 167.5° | 398.6 | 397.4 | 396.4 | 397.4 | 398.6 | 398.8  | 400.3 | 402.3 | 403.2 | 405.5 | 410.2 |
| 170°   | 402.7 | 401.6 | 400.5 | 401.6 | 402.7 | 403.0  | 403.1 | 403.1 | 403.2 | 405.5 | 410.2 |
| 172.5° | 403.1 | 403.0 | 402.7 | 403.0 | 403.1 | 403.2  | 403.2 | 403.2 | 403.2 | 405.1 | 408.7 |
| 175°   | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 | 405.7  | 404.9 | 403.8 | 403.2 | 404.4 | 406.7 |
| 177.5° | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 | 405.7  | 405.1 | 404.2 | 403.8 | 404.6 | 406.5 |
| 180°   | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 | 405.7  | 405.7 | 405.7 | 405.7 | 405.7 | 405.7 |



TEST NUMBER: P934757

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 260°   | 270°   | 280°   | 290°  | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|-------|
| 0°     | 928.5  | 928.5 | 928.5  | 928.5  | 928.5  | 928.5 | 928.5  | 928.5 | 928.5 | 928.5 | 928.5 |
| 2.5°   | 896.0  | 893.3 | 896.8  | 887.2  | 896.8  | 893.3 | 896.0  | 902.1 | 896.8 | 900.3 | 903.9 |
| 5°     | 786.2  | 781.8 | 767.7  | 756.3  | 767.7  | 781.8 | 786.2  | 804.6 | 813.4 | 829.2 | 850.3 |
| 7.5°   | 702.7  | 699.2 | 695.7  | 688.7  | 695.7  | 699.2 | 702.7  | 708.0 | 716.8 | 730.8 | 746.6 |
| 10°    | 684.3  | 685.2 | 690.4  | 689.6  | 690.4  | 685.2 | 684.3  | 682.5 | 679.9 | 682.5 | 692.2 |
| 12.5°  | 731.7  | 739.6 | 768.6  | 766.8  | 768.6  | 739.6 | 731.7  | 696.6 | 672.9 | 668.5 | 670.2 |
| 15°    | 786.2  | 788.8 | 795.0  | 795.8  | 795.0  | 788.8 | 786.2  | 772.1 | 701.0 | 670.2 | 660.6 |
| 17.5°  | 791.4  | 792.3 | 796.7  | 796.7  | 796.7  | 792.3 | 791.4  | 785.3 | 761.6 | 720.3 | 665.8 |
| 20°    | 787.0  | 788.8 | 797.6  | 799.3  | 797.6  | 788.8 | 787.0  | 779.1 | 766.0 | 751.0 | 709.8 |
| 22.5°  | 785.3  | 788.8 | 795.8  | 795.0  | 795.8  | 788.8 | 785.3  | 773.0 | 761.6 | 751.0 | 734.3 |
| 25°    | 776.5  | 776.5 | 777.4  | 778.3  | 777.4  | 776.5 | 776.5  | 766.8 | 744.0 | 741.4 | 731.7 |
| 27.5°  | 758.1  | 759.8 | 765.1  | 764.2  | 765.1  | 759.8 | 758.1  | 754.5 | 730.0 | 727.3 | 720.3 |
| 30°    | 741.4  | 739.6 | 735.2  | 731.7  | 735.2  | 739.6 | 741.4  | 736.1 | 711.5 | 704.5 | 706.2 |
| 32.5°  | 713.3  | 708.9 | 704.5  | 701.9  | 704.5  | 708.9 | 713.3  | 711.5 | 693.1 | 683.4 | 685.2 |
| 35°    | 679.9  | 680.8 | 679.9  | 677.3  | 679.9  | 680.8 | 679.9  | 681.6 | 670.2 | 661.4 | 660.6 |
| 37.5°  | 656.2  | 657.9 | 657.1  | 653.5  | 657.1  | 657.9 | 656.2  | 654.4 | 638.6 | 636.0 | 637.7 |
| 40°    | 631.6  | 632.5 | 631.6  | 629.0  | 631.6  | 632.5 | 631.6  | 628.1 | 606.1 | 607.0 | 613.1 |
| 42.5°  | 607.9  | 607.0 | 604.4  | 602.6  | 604.4  | 607.0 | 607.9  | 602.6 | 574.5 | 571.9 | 583.3 |
| 45°    | 580.6  | 581.5 | 576.3  | 573.6  | 576.3  | 581.5 | 580.6  | 577.1 | 548.1 | 541.1 | 549.0 |
| 47.5°  | 553.4  | 553.4 | 549.0  | 546.4  | 549.0  | 553.4 | 553.4  | 549.0 | 518.3 | 511.3 | 515.7 |
| 50°    | 524.4  | 523.6 | 517.4  | 516.5  | 517.4  | 523.6 | 524.4  | 521.8 | 489.3 | 483.2 | 483.2 |
| 52.5°  | 491.1  | 491.1 | 491.9  | 493.7  | 491.9  | 491.1 | 491.1  | 491.9 | 463.0 | 456.8 | 455.0 |
| 55°    | 462.1  | 463.0 | 469.1  | 470.9  | 469.1  | 463.0 | 462.1  | 462.1 | 435.7 | 429.6 | 426.1 |
| 57.5°  | 432.2  | 432.2 | 436.6  | 436.6  | 436.6  | 432.2 | 432.2  | 430.5 | 405.0 | 399.7 | 398.0 |
| 60°    | 398.0  | 399.7 | 403.2  | 402.3  | 403.2  | 399.7 | 398.0  | 396.2 | 374.2 | 370.7 | 364.6 |
| 62.5°  | 361.9  | 363.7 | 364.6  | 362.8  | 364.6  | 363.7 | 361.9  | 356.7 | 343.5 | 340.9 | 333.0 |
| 65°    | 324.2  | 325.9 | 326.8  | 325.1  | 326.8  | 325.9 | 324.2  | 321.5 | 311.8 | 307.4 | 300.4 |
| 67.5°  | 285.4  | 284.6 | 283.7  | 287.2  | 283.7  | 284.6 | 285.4  | 281.9 | 275.8 | 272.3 | 262.6 |
| 70°    | 245.9  | 245.9 | 245.0  | 246.8  | 245.0  | 245.9 | 245.9  | 243.3 | 239.8 | 237.1 | 228.4 |
| 72.5°  | 203.8  | 202.9 | 206.4  | 203.8  | 206.4  | 202.9 | 203.8  | 202.9 | 201.1 | 198.5 | 189.7 |
| 75°    | 162.5  | 164.2 | 162.5  | 165.1  | 162.5  | 164.2 | 162.5  | 163.4 | 162.5 | 160.7 | 154.6 |
| 77.5°  | 123.8  | 125.6 | 123.8  | 123.8  | 123.8  | 125.6 | 123.8  | 124.7 | 124.7 | 124.7 | 119.4 |
| 80°    | 87.8   | 87.0  | 87.0   | 86.1   | 87.0   | 87.0  | 87.8   | 87.8  | 88.7  | 87.0  | 85.2  |
| 82.5°  | 56.2   | 55.3  | 55.3   | 57.1   | 55.3   | 55.3  | 56.2   | 57.1  | 55.3  | 55.3  | 55.3  |
| 85°    | 30.7   | 31.6  | 29.9   | 29.9   | 29.9   | 31.6  | 30.7   | 29.0  | 30.7  | 30.7  | 29.9  |
| 87.5°  | 11.4   | 10.5  | 10.5   | 10.5   | 10.5   | 10.5  | 11.4   | 12.3  | 12.3  | 12.3  | 13.2  |
| 90°    | 10.4   | 10.4  | 10.4   | 10.4   | 10.4   | 10.4  | 10.4   | 13.8  | 18.4  | 20.7  | 17.8  |
| 92.5°  | 51.7   | 49.7  | 41.5   | 33.2   | 41.5   | 49.7  | 51.7   | 73.3  | 102.1 | 116.6 | 102.3 |
| 95°    | 175.6  | 169.3 | 144.5  | 119.5  | 144.5  | 169.3 | 175.6  | 230.6 | 303.9 | 340.6 | 287.6 |
| 97.5°  | 405.4  | 393.6 | 346.1  | 298.7  | 346.1  | 393.6 | 405.4  | 440.2 | 486.5 | 509.7 | 421.4 |
| 100°   | 569.3  | 555.2 | 498.7  | 442.1  | 498.7  | 555.2 | 569.3  | 566.8 | 563.3 | 561.7 | 463.7 |
| 102.5° | 709.2  | 697.1 | 648.7  | 600.3  | 648.7  | 697.1 | 709.2  | 665.0 | 605.9 | 576.4 | 477.1 |
| 105°   | 872.6  | 866.1 | 840.1  | 814.1  | 840.1  | 866.1 | 872.6  | 773.3 | 641.0 | 574.8 | 478.6 |
| 107.5° | 957.5  | 959.1 | 965.4  | 971.8  | 965.4  | 959.1 | 957.5  | 819.0 | 634.4 | 542.1 | 457.2 |
| 110°   | 979.3  | 986.1 | 1013.2 | 1040.3 | 1013.2 | 986.1 | 979.3  | 824.5 | 618.1 | 514.9 | 438.4 |



TEST NUMBER: P934757

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 260°   | 270°   | 280°   | 290°  | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|-------|
| 112.5° | 965.4  | 975.9 | 1017.5 | 1059.1 | 1017.5 | 975.9 | 965.4  | 807.0 | 595.8 | 490.1 | 421.9 |
| 115°   | 918.4  | 932.8 | 990.5  | 1048.3 | 990.5  | 932.8 | 918.4  | 765.7 | 562.2 | 460.4 | 403.0 |
| 117.5° | 853.3  | 869.3 | 933.3  | 997.3  | 933.3  | 869.3 | 853.3  | 715.5 | 531.8 | 439.9 | 391.1 |
| 120°   | 809.4  | 825.0 | 887.2  | 949.4  | 887.2  | 825.0 | 809.4  | 683.6 | 515.7 | 431.8 | 387.2 |
| 122.5° | 765.6  | 781.0 | 842.3  | 903.7  | 842.3  | 781.0 | 765.6  | 652.2 | 501.1 | 425.5 | 385.0 |
| 125°   | 707.6  | 721.8 | 778.3  | 834.7  | 778.3  | 721.8 | 707.6  | 611.4 | 483.0 | 418.8 | 383.4 |
| 127.5° | 661.1  | 673.0 | 720.6  | 768.3  | 720.6  | 673.0 | 661.1  | 578.4 | 468.2 | 413.1 | 382.4 |
| 130°   | 631.7  | 642.7 | 686.7  | 730.7  | 686.7  | 642.7 | 631.7  | 558.1 | 460.0 | 410.9 | 382.9 |
| 132.5° | 606.6  | 616.5 | 655.9  | 695.4  | 655.9  | 616.5 | 606.6  | 540.8 | 452.9 | 408.9 | 383.4 |
| 135°   | 571.2  | 579.8 | 613.8  | 647.7  | 613.8  | 579.8 | 571.2  | 516.1 | 442.5 | 405.7 | 383.0 |
| 137.5° | 545.1  | 552.0 | 579.9  | 607.7  | 579.9  | 552.0 | 545.1  | 498.4 | 436.3 | 405.2 | 385.4 |
| 140°   | 524.1  | 530.6 | 556.7  | 582.7  | 556.7  | 530.6 | 524.1  | 483.8 | 430.1 | 403.2 | 385.7 |
| 142.5° | 509.4  | 515.0 | 537.3  | 559.7  | 537.3  | 515.0 | 509.4  | 474.0 | 426.9 | 403.2 | 387.2 |
| 145°   | 487.4  | 491.6 | 508.5  | 525.5  | 508.5  | 491.6 | 487.4  | 458.4 | 419.8 | 400.5 | 387.2 |
| 147.5° | 468.8  | 472.4 | 486.4  | 500.5  | 486.4  | 472.4 | 468.8  | 446.1 | 415.7 | 400.5 | 389.8 |
| 150°   | 458.2  | 461.0 | 472.4  | 483.9  | 472.4  | 461.0 | 458.2  | 439.0 | 413.3 | 400.5 | 391.2 |
| 152.5° | 449.8  | 451.9 | 460.5  | 469.1  | 460.5  | 451.9 | 449.8  | 433.4 | 411.5 | 400.5 | 392.1 |
| 155°   | 439.7  | 441.1 | 446.8  | 452.5  | 446.8  | 441.1 | 439.7  | 426.6 | 409.2 | 400.5 | 394.1 |
| 157.5° | 431.0  | 431.9 | 436.0  | 439.9  | 436.0  | 431.9 | 431.0  | 420.8 | 407.3 | 400.5 | 396.1 |
| 160°   | 426.7  | 427.2 | 429.5  | 431.8  | 429.5  | 427.2 | 426.7  | 418.0 | 406.3 | 400.5 | 397.0 |
| 162.5° | 422.6  | 423.1 | 425.3  | 427.5  | 425.3  | 423.1 | 422.6  | 415.2 | 405.4 | 400.5 | 398.0 |
| 165°   | 416.3  | 416.9 | 419.2  | 421.5  | 419.2  | 416.9 | 416.3  | 411.0 | 404.0 | 400.5 | 399.4 |
| 167.5° | 413.6  | 413.9 | 414.8  | 415.8  | 414.8  | 413.9 | 413.6  | 410.2 | 405.5 | 403.2 | 402.3 |
| 170°   | 413.6  | 413.6 | 413.6  | 413.6  | 413.6  | 413.6 | 413.6  | 410.2 | 405.5 | 403.2 | 403.1 |
| 172.5° | 411.4  | 411.2 | 410.3  | 409.5  | 410.3  | 411.2 | 411.4  | 408.7 | 405.1 | 403.2 | 403.2 |
| 175°   | 408.4  | 408.4 | 408.4  | 408.4  | 408.4  | 408.4 | 408.4  | 406.7 | 404.4 | 403.2 | 403.8 |
| 177.5° | 407.9  | 407.6 | 406.7  | 405.7  | 406.7  | 407.6 | 407.9  | 406.5 | 404.6 | 403.8 | 404.2 |
| 180°   | 405.7  | 405.7 | 405.7  | 405.7  | 405.7  | 405.7 | 405.7  | 405.7 | 405.7 | 405.7 | 405.7 |



TEST NUMBER: P934757

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 0°     | 928.5 | 928.5  | 928.5 | 928.5 | 928.5 |
| 2.5°   | 917.0 | 921.4  | 924.1 | 927.6 | 936.4 |
| 5°     | 881.9 | 898.6  | 903.9 | 917.0 | 932.8 |
| 7.5°   | 804.6 | 855.6  | 869.6 | 901.2 | 925.8 |
| 10°    | 730.0 | 780.9  | 805.5 | 880.1 | 917.0 |
| 12.5°  | 692.2 | 722.1  | 738.7 | 843.3 | 904.7 |
| 15°    | 668.5 | 689.6  | 701.9 | 794.1 | 890.7 |
| 17.5°  | 650.0 | 665.0  | 673.7 | 745.8 | 871.4 |
| 20°    | 638.6 | 645.6  | 653.5 | 710.6 | 849.4 |
| 22.5°  | 630.7 | 626.3  | 632.5 | 686.0 | 819.5 |
| 25°    | 625.4 | 608.8  | 615.8 | 666.7 | 784.4 |
| 27.5°  | 629.8 | 592.9  | 595.6 | 649.2 | 747.5 |
| 30°    | 630.7 | 573.6  | 574.5 | 630.7 | 706.2 |
| 32.5°  | 624.6 | 553.4  | 554.3 | 607.9 | 659.7 |
| 35°    | 609.6 | 529.7  | 528.8 | 581.5 | 596.5 |
| 37.5°  | 589.4 | 504.2  | 504.2 | 552.5 | 527.1 |
| 40°    | 564.8 | 478.8  | 481.4 | 514.8 | 465.6 |
| 42.5°  | 535.0 | 451.5  | 455.0 | 464.7 | 419.9 |
| 45°    | 502.5 | 425.2  | 427.8 | 392.7 | 384.8 |
| 47.5°  | 466.5 | 398.0  | 398.8 | 325.9 | 373.4 |
| 50°    | 423.4 | 369.9  | 366.3 | 279.3 | 372.5 |
| 52.5°  | 385.7 | 339.1  | 328.6 | 253.0 | 338.2 |
| 55°    | 348.8 | 306.5  | 283.7 | 232.7 | 313.6 |
| 57.5°  | 316.3 | 264.4  | 242.4 | 209.0 | 308.3 |
| 60°    | 286.3 | 223.1  | 206.4 | 183.6 | 282.8 |
| 62.5°  | 261.7 | 192.3  | 188.8 | 166.0 | 256.5 |
| 65°    | 235.4 | 171.3  | 170.4 | 151.1 | 217.8 |
| 67.5°  | 209.9 | 157.2  | 156.3 | 137.0 | 166.0 |
| 70°    | 182.7 | 142.3  | 140.5 | 122.1 | 123.0 |
| 72.5°  | 154.6 | 125.6  | 123.8 | 109.8 | 101.9 |
| 75°    | 126.5 | 106.3  | 105.4 | 95.7  | 82.6  |
| 77.5°  | 99.2  | 84.3   | 86.1  | 77.3  | 60.6  |
| 80°    | 71.1  | 61.5   | 63.2  | 55.3  | 45.7  |
| 82.5°  | 47.4  | 40.4   | 42.2  | 35.1  | 30.7  |
| 85°    | 26.3  | 22.8   | 23.7  | 18.4  | 14.1  |
| 87.5°  | 12.3  | 10.5   | 10.5  | 7.0   | 4.4   |
| 90°    | 12.0  | 7.6    | 7.1   | 4.9   | 2.7   |
| 92.5°  | 73.9  | 52.5   | 47.9  | 29.4  | 10.9  |
| 95°    | 181.8 | 102.4  | 94.0  | 60.1  | 26.2  |
| 97.5°  | 244.9 | 112.4  | 105.0 | 75.1  | 45.2  |
| 100°   | 267.8 | 120.9  | 114.1 | 87.0  | 59.9  |
| 102.5° | 278.3 | 129.3  | 123.0 | 97.8  | 72.5  |
| 105°   | 286.2 | 141.8  | 136.5 | 115.1 | 93.6  |
| 107.5° | 287.6 | 160.4  | 155.4 | 135.4 | 115.4 |
| 110°   | 285.4 | 170.7  | 166.3 | 148.2 | 130.2 |



TEST NUMBER: P934757

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 285.5 | 183.2  | 178.9 | 161.8 | 144.6 |
| 115°   | 288.2 | 202.0  | 198.1 | 182.2 | 166.4 |
| 117.5° | 293.5 | 220.3  | 216.7 | 202.3 | 187.9 |
| 120°   | 297.8 | 230.9  | 227.5 | 214.0 | 200.4 |
| 122.5° | 304.1 | 243.4  | 240.0 | 226.3 | 212.6 |
| 125°   | 312.6 | 259.5  | 256.4 | 243.9 | 231.4 |
| 127.5° | 321.0 | 275.0  | 271.8 | 259.3 | 246.7 |
| 130°   | 327.2 | 285.4  | 281.9 | 268.4 | 254.9 |
| 132.5° | 332.2 | 293.8  | 290.4 | 276.8 | 263.3 |
| 135°   | 337.6 | 303.5  | 300.5 | 288.1 | 275.8 |
| 137.5° | 345.8 | 316.1  | 313.0 | 300.8 | 288.6 |
| 140°   | 350.8 | 324.5  | 321.7 | 310.5 | 299.2 |
| 142.5° | 354.9 | 330.8  | 328.1 | 317.8 | 307.4 |
| 145°   | 360.4 | 340.3  | 338.1 | 329.0 | 319.9 |
| 147.5° | 368.4 | 352.3  | 350.1 | 341.2 | 332.4 |
| 150°   | 372.6 | 358.6  | 356.6 | 348.6 | 340.6 |
| 152.5° | 375.3 | 362.7  | 361.2 | 355.1 | 349.0 |
| 155°   | 381.3 | 371.6  | 370.5 | 366.1 | 361.6 |
| 157.5° | 387.2 | 380.7  | 379.6 | 375.2 | 370.8 |
| 160°   | 390.0 | 384.7  | 383.8 | 380.5 | 377.1 |
| 162.5° | 392.9 | 389.1  | 388.5 | 385.9 | 383.4 |
| 165°   | 397.1 | 395.3  | 394.7 | 392.4 | 390.1 |
| 167.5° | 400.3 | 398.8  | 398.6 | 397.4 | 396.4 |
| 170°   | 403.1 | 403.0  | 402.7 | 401.6 | 400.5 |
| 172.5° | 403.2 | 403.2  | 403.1 | 403.0 | 402.7 |
| 175°   | 404.9 | 405.7  | 405.7 | 405.7 | 405.7 |
| 177.5° | 405.1 | 405.7  | 405.7 | 405.7 | 405.7 |
| 180°   | 405.7 | 405.7  | 405.7 | 405.7 | 405.7 |



TEST NUMBER: P934757  
 CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-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 | 12.07            | 12.91 | 13.05 | 13.90 | 15.20 | 14.87          | 15.71 | 15.84 | 16.70 | 18.00 |
|                 | 3H   | 12.55            | 13.30 | 13.53 | 14.30 | 15.62 | 16.20          | 16.96 | 17.19 | 17.95 | 19.28 |
|                 | 4H   | 12.74            | 13.45 | 13.74 | 14.45 | 15.78 | 16.64          | 17.35 | 17.64 | 18.35 | 19.69 |
|                 | 6H   | 12.85            | 13.51 | 13.86 | 14.52 | 15.86 | 16.91          | 17.57 | 17.92 | 18.58 | 19.92 |
|                 | 8H   | 12.85            | 13.48 | 13.87 | 14.50 | 15.84 | 16.98          | 17.61 | 18.00 | 18.63 | 19.97 |
|                 | 12H  | 12.82            | 13.42 | 13.85 | 14.44 | 15.80 | 17.02          | 17.61 | 18.04 | 18.63 | 19.99 |
| 4H              | 2H   | 13.09            | 13.81 | 14.10 | 14.81 | 16.14 | 15.28          | 15.99 | 16.28 | 16.99 | 18.32 |
|                 | 3H   | 14.12            | 14.71 | 15.13 | 15.74 | 17.09 | 16.77          | 17.36 | 17.79 | 18.40 | 19.74 |
|                 | 4H   | 14.39            | 14.94 | 15.42 | 15.96 | 17.33 | 17.29          | 17.83 | 18.31 | 18.86 | 20.23 |
|                 | 6H   | 14.52            | 14.98 | 15.55 | 16.03 | 17.40 | 17.65          | 18.11 | 18.68 | 19.16 | 20.53 |
|                 | 8H   | 14.52            | 14.96 | 15.56 | 16.00 | 17.38 | 17.75          | 18.18 | 18.78 | 19.22 | 20.60 |
|                 | 12H  | 14.49            | 14.88 | 15.54 | 15.94 | 17.32 | 17.80          | 18.19 | 18.85 | 19.25 | 20.63 |
| 8H              | 4H   | 14.84            | 15.28 | 15.87 | 16.32 | 17.70 | 17.41          | 17.85 | 18.45 | 18.89 | 20.27 |
|                 | 6H   | 15.10            | 15.46 | 16.16 | 16.54 | 17.92 | 17.84          | 18.20 | 18.90 | 19.28 | 20.66 |
|                 | 8H   | 15.14            | 15.46 | 16.21 | 16.53 | 17.92 | 17.99          | 18.31 | 19.05 | 19.37 | 20.77 |
|                 | 12H  | 15.13            | 15.40 | 16.20 | 16.47 | 17.90 | 18.08          | 18.36 | 19.15 | 19.42 | 20.86 |
| 12H             | 4H   | 14.84            | 15.24 | 15.90 | 16.29 | 17.68 | 17.38          | 17.77 | 18.43 | 18.83 | 20.21 |
|                 | 6H   | 15.16            | 15.48 | 16.23 | 16.54 | 17.94 | 17.84          | 18.16 | 18.90 | 19.22 | 20.62 |
|                 | 8H   | 15.22            | 15.50 | 16.29 | 16.56 | 18.00 | 17.99          | 18.27 | 19.06 | 19.33 | 20.77 |