

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: P934639

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

**Test Information**

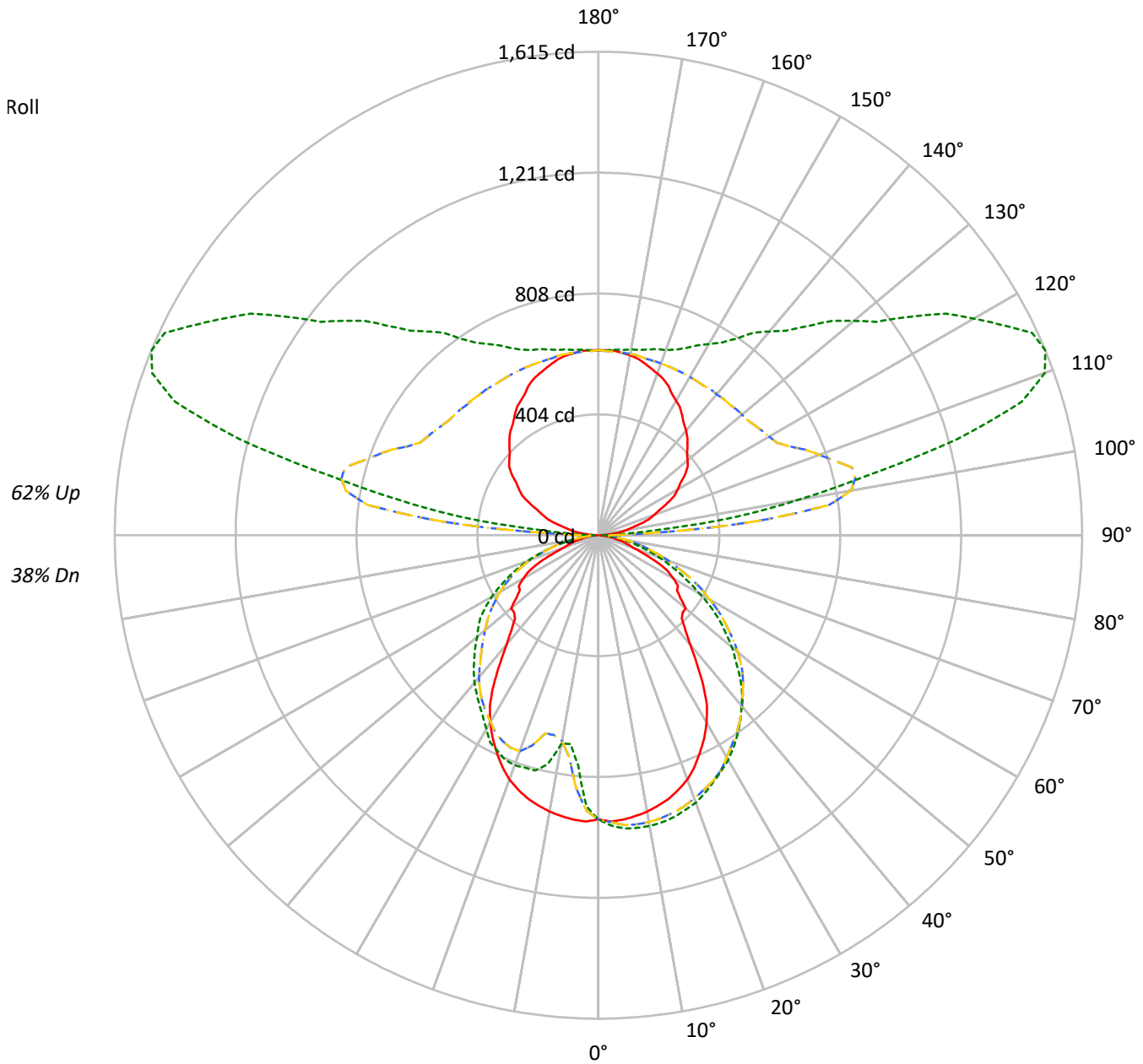
Test Method: LM-79-2019  
Report Number: P934639  
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6472.4 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 51.6  
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: P934639  
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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   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 60 | 60 | 60 | 45 | 45 | 45 | 38 |    |    |    | 38 |
| 1   | 95  | 91  | 87  | 84  | 86 | 83 | 79 | 77 | 67 | 65 | 63 | 53 | 52 | 50 | 40 | 39 | 38 | 32 |    |    |    | 32 |
| 2   | 87  | 79  | 73  | 68  | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 47 | 44 | 42 | 35 | 34 | 32 | 27 |    |    |    | 27 |
| 3   | 79  | 70  | 63  | 57  | 71 | 64 | 57 | 52 | 52 | 47 | 44 | 41 | 38 | 35 | 31 | 29 | 27 | 23 |    |    |    | 23 |
| 4   | 72  | 62  | 54  | 48  | 65 | 56 | 50 | 44 | 46 | 41 | 37 | 37 | 33 | 30 | 28 | 25 | 24 | 20 |    |    |    | 20 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 22 | 20 | 17 |    |    |    | 17 |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 20 | 18 | 15 |    |    |    | 15 |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 34 | 29 | 33 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 | 13 |    |    |    | 13 |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 22 | 24 | 21 | 18 | 19 | 16 | 14 | 12 |    |    |    | 12 |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 11 |    |    |    | 11 |
| 10  | 45  | 33  | 26  | 22  | 41 | 31 | 24 | 20 | 26 | 21 | 17 | 21 | 17 | 14 | 16 | 14 | 12 | 10 |    |    |    | 10 |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 5871 | 5871 | 5871 | 5871 |
| 5°  | 5913 | 5927 | 5913 | 4660 |
| 10° | 5871 | 5839 | 5871 | 4174 |
| 15° | 5806 | 5712 | 5806 | 4769 |
| 20° | 5682 | 5562 | 5682 | 4779 |
| 25° | 5431 | 5344 | 5431 | 4678 |
| 30° | 5108 | 5162 | 5108 | 4456 |
| 35° | 4551 | 4933 | 4551 | 4211 |
| 40° | 3790 | 4662 | 3790 | 4027 |
| 45° | 3384 | 4346 | 3384 | 3815 |
| 50° | 3592 | 3969 | 3592 | 3601 |
| 55° | 3376 | 3563 | 3376 | 3478 |
| 60° | 3476 | 3026 | 3476 | 3185 |
| 65° | 3147 | 2501 | 3147 | 2795 |
| 70° | 2174 | 1993 | 2174 | 2343 |
| 75° | 1899 | 1473 | 1899 | 1764 |
| 80° | 1520 | 974  | 1520 | 1061 |
| 85° | 859  | 516  | 859  | 438  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5191 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.7   | 1.3       |
| 10°-20°   | 243.3  | 3.8       |
| 20°-30°   | 376.0  | 5.8       |
| 30°-40°   | 448.9  | 6.9       |
| 40°-50°   | 451.5  | 7.0       |
| 50°-60°   | 392.9  | 6.1       |
| 60°-70°   | 278.6  | 4.3       |
| 70°-80°   | 147.4  | 2.3       |
| 80°-90°   | 39.1   | 0.6       |
| 90°-100°  | 301.4  | 4.7       |
| 100°-110° | 792.6  | 12.2      |
| 110°-120° | 821.8  | 12.7      |
| 120°-130° | 659.2  | 10.2      |
| 130°-140° | 517.2  | 8.0       |
| 140°-150° | 397.0  | 6.1       |
| 150°-160° | 285.9  | 4.4       |
| 160°-170° | 174.9  | 2.7       |
| 170°-180° | 59.1   | 0.9       |
| 0°-30°    | 705.0  | 10.9      |
| 0°-40°    | 1153.9 | 17.8      |
| 0°-60°    | 1998.3 | 30.9      |
| 0°-90°    | 2463.3 | 38.1      |
| 90°-120°  | 1915.8 | 29.6      |
| 90°-150°  | 3489.2 | 53.9      |
| 90°-180°  | 4009.0 | 61.9      |
| 0°-180°   | 6472.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90°  | 180° | 270° | 360° | Flux |
|------|-----|------|------|------|------|------|
| 0°   | 949 | 949  | 949  | 949  | 949  |      |
| 5°   | 954 | 983  | 954  | 773  | 954  | 90   |
| 15°  | 911 | 974  | 911  | 814  | 911  | 256  |
| 25°  | 802 | 909  | 802  | 796  | 802  | 368  |
| 35°  | 610 | 811  | 610  | 692  | 610  | 377  |
| 45°  | 393 | 668  | 393  | 586  | 393  | 315  |
| 55°  | 320 | 493  | 320  | 481  | 320  | 295  |
| 65°  | 223 | 297  | 223  | 332  | 223  | 213  |
| 75°  | 84  | 141  | 84   | 169  | 84   | 89   |
| 85°  | 14  | 36   | 14   | 30   | 14   | 19   |
| 90°  | 4   | 16   | 4    | 16   | 4    | 4    |
| 95°  | 40  | 182  | 40   | 182  | 40   | 44   |
| 105° | 143 | 1241 | 143  | 1241 | 143  | 151  |
| 115° | 254 | 1598 | 254  | 1598 | 254  | 250  |
| 125° | 353 | 1273 | 353  | 1273 | 353  | 313  |
| 135° | 420 | 987  | 420  | 987  | 420  | 325  |
| 145° | 488 | 801  | 488  | 801  | 488  | 306  |
| 155° | 551 | 690  | 551  | 690  | 551  | 253  |
| 165° | 595 | 642  | 595  | 642  | 595  | 168  |
| 175° | 618 | 623  | 618  | 623  | 618  | 59   |
| 180° | 618 | 618  | 618  | 618  | 618  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0°     | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1  | 949.1  | 949.1  |
| 2.5°   | 957.2 | 957.2 | 962.6 | 964.4 | 964.4 | 961.7 | 959.0 | 961.7 | 969.8  | 972.5  | 971.6  |
| 5°     | 953.6 | 960.8 | 970.7 | 972.5 | 974.3 | 973.4 | 971.6 | 973.4 | 982.3  | 984.2  | 985.1  |
| 7.5°   | 946.4 | 959.9 | 972.5 | 975.2 | 977.9 | 975.2 | 974.3 | 976.1 | 985.1  | 986.9  | 986.9  |
| 10°    | 937.4 | 956.4 | 970.7 | 972.5 | 975.2 | 972.5 | 972.5 | 976.1 | 985.1  | 986.9  | 987.8  |
| 12.5°  | 924.9 | 950.9 | 964.4 | 966.2 | 969.8 | 968.9 | 968.0 | 971.6 | 980.5  | 982.3  | 982.3  |
| 15°    | 910.6 | 941.1 | 953.6 | 955.5 | 961.7 | 959.9 | 959.9 | 963.5 | 973.4  | 976.1  | 975.2  |
| 17.5°  | 890.7 | 928.5 | 942.9 | 945.6 | 950.0 | 949.1 | 950.0 | 953.6 | 962.6  | 964.4  | 965.3  |
| 20°    | 868.3 | 911.5 | 928.5 | 931.2 | 935.6 | 935.6 | 935.6 | 940.2 | 949.1  | 952.7  | 952.7  |
| 22.5°  | 837.8 | 893.4 | 911.5 | 913.2 | 918.6 | 918.6 | 920.4 | 926.7 | 934.8  | 935.6  | 935.6  |
| 25°    | 801.8 | 873.7 | 889.0 | 894.4 | 899.8 | 902.4 | 905.1 | 908.8 | 911.5  | 910.6  | 911.5  |
| 27.5°  | 764.2 | 848.5 | 868.3 | 871.9 | 879.1 | 881.8 | 885.4 | 886.3 | 887.2  | 889.9  | 888.1  |
| 30°    | 722.0 | 813.5 | 843.2 | 846.7 | 858.4 | 860.2 | 856.6 | 858.4 | 862.9  | 864.8  | 866.6  |
| 32.5°  | 674.4 | 761.5 | 817.1 | 825.2 | 836.0 | 830.6 | 829.7 | 832.4 | 839.6  | 839.6  | 841.4  |
| 35°    | 609.7 | 721.1 | 792.9 | 800.1 | 808.2 | 801.8 | 805.5 | 806.4 | 810.9  | 813.5  | 812.6  |
| 37.5°  | 538.8 | 686.1 | 767.7 | 773.1 | 779.4 | 771.3 | 776.8 | 779.4 | 783.0  | 781.2  | 781.2  |
| 40°    | 475.9 | 631.3 | 738.1 | 741.7 | 747.1 | 740.8 | 746.2 | 748.0 | 749.8  | 748.0  | 747.1  |
| 42.5°  | 429.3 | 571.1 | 706.7 | 711.2 | 707.6 | 712.0 | 713.9 | 717.5 | 714.8  | 711.2  | 711.2  |
| 45°    | 393.3 | 554.9 | 672.6 | 677.9 | 672.6 | 679.7 | 682.4 | 682.4 | 674.4  | 672.6  | 671.7  |
| 47.5°  | 381.6 | 522.6 | 638.5 | 638.5 | 635.7 | 644.7 | 649.2 | 643.0 | 634.8  | 632.2  | 632.2  |
| 50°    | 380.7 | 486.7 | 591.7 | 588.1 | 600.7 | 611.5 | 607.0 | 600.7 | 594.5  | 584.6  | 584.6  |
| 52.5°  | 345.7 | 442.7 | 531.6 | 545.0 | 564.8 | 571.1 | 564.0 | 557.6 | 546.8  | 542.4  | 538.8  |
| 55°    | 320.5 | 396.9 | 476.8 | 503.8 | 524.4 | 532.4 | 519.1 | 512.7 | 496.6  | 493.9  | 492.1  |
| 57.5°  | 315.2 | 330.4 | 426.5 | 460.7 | 485.8 | 484.9 | 476.8 | 465.1 | 451.7  | 449.0  | 448.1  |
| 60°    | 289.1 | 238.9 | 372.7 | 413.1 | 439.1 | 436.4 | 429.3 | 418.5 | 405.9  | 404.1  | 402.3  |
| 62.5°  | 262.2 | 173.3 | 311.6 | 357.4 | 394.2 | 393.3 | 387.0 | 370.9 | 361.9  | 357.4  | 353.8  |
| 65°    | 222.7 | 145.5 | 221.8 | 297.2 | 350.2 | 352.0 | 338.6 | 326.9 | 317.0  | 311.6  | 310.7  |
| 67.5°  | 169.7 | 118.5 | 150.0 | 247.9 | 308.0 | 306.2 | 289.1 | 283.8 | 271.2  | 268.5  | 263.1  |
| 70°    | 125.7 | 79.0  | 104.2 | 201.1 | 266.7 | 262.2 | 248.8 | 242.4 | 230.7  | 224.5  | 220.9  |
| 72.5°  | 104.2 | 63.7  | 76.3  | 156.2 | 224.5 | 219.1 | 207.4 | 200.2 | 190.4  | 185.0  | 181.4  |
| 75°    | 84.4  | 67.3  | 58.4  | 115.9 | 182.3 | 178.7 | 167.9 | 160.8 | 152.6  | 145.5  | 146.4  |
| 77.5°  | 61.9  | 62.8  | 46.7  | 85.3  | 144.6 | 139.2 | 132.9 | 123.9 | 120.3  | 113.2  | 113.2  |
| 80°    | 46.7  | 49.4  | 35.0  | 58.4  | 104.2 | 104.2 | 98.8  | 92.5  | 86.2   | 82.7   | 82.7   |
| 82.5°  | 31.4  | 31.4  | 26.1  | 36.8  | 71.0  | 68.3  | 64.6  | 62.8  | 59.3   | 57.5   | 57.5   |
| 85°    | 14.4  | 17.9  | 16.2  | 22.4  | 38.7  | 40.4  | 40.4  | 38.7  | 37.8   | 35.9   | 36.8   |
| 87.5°  | 4.5   | 8.1   | 9.9   | 12.6  | 19.7  | 20.6  | 21.5  | 21.5  | 21.5   | 22.4   | 22.4   |
| 90°    | 4.1   | 7.4   | 10.8  | 11.6  | 18.2  | 27.0  | 31.5  | 28.0  | 21.1   | 15.8   | 15.8   |
| 92.5°  | 16.6  | 44.8  | 73.0  | 80.1  | 112.6 | 155.9 | 177.6 | 155.7 | 111.8  | 78.8   | 75.7   |
| 95°    | 39.8  | 91.5  | 143.1 | 156.0 | 277.1 | 438.5 | 519.2 | 463.4 | 351.5  | 267.7  | 258.2  |
| 97.5°  | 68.9  | 114.4 | 160.0 | 171.4 | 373.3 | 642.4 | 777.0 | 741.7 | 671.1  | 618.1  | 599.9  |
| 100°   | 91.3  | 132.6 | 174.0 | 184.3 | 408.3 | 707.0 | 856.3 | 858.9 | 864.1  | 867.9  | 846.4  |
| 102.5° | 110.4 | 149.0 | 187.5 | 197.2 | 424.4 | 727.2 | 878.7 | 923.7 | 1013.7 | 1081.2 | 1062.8 |
| 105°   | 142.8 | 175.5 | 208.2 | 216.3 | 436.2 | 729.5 | 876.2 | 977.1 | 1178.9 | 1330.3 | 1320.4 |
| 107.5° | 176.0 | 206.5 | 236.9 | 244.5 | 438.5 | 697.0 | 826.4 | 967.2 | 1248.7 | 1459.8 | 1462.2 |
| 110°   | 198.4 | 225.9 | 253.3 | 260.2 | 435.1 | 668.3 | 784.9 | 942.2 | 1257.0 | 1493.0 | 1503.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 112.5° | 220.4 | 246.5 | 272.8 | 279.3 | 435.2 | 643.1 | 747.1 | 908.2 | 1230.2 | 1471.8 | 1487.6 |
| 115°   | 253.6 | 277.8 | 301.9 | 308.0 | 439.3 | 614.3 | 701.9 | 857.0 | 1167.3 | 1400.0 | 1421.9 |
| 117.5° | 286.4 | 308.3 | 330.3 | 335.8 | 447.5 | 596.3 | 670.7 | 810.8 | 1090.8 | 1300.8 | 1325.2 |
| 120°   | 305.5 | 326.2 | 346.8 | 352.0 | 454.1 | 590.2 | 658.3 | 786.2 | 1042.0 | 1234.0 | 1257.7 |
| 122.5° | 324.2 | 345.0 | 365.9 | 371.1 | 463.6 | 587.1 | 648.8 | 763.9 | 994.3  | 1167.1 | 1190.5 |
| 125°   | 352.8 | 371.8 | 390.8 | 395.5 | 476.5 | 584.4 | 638.4 | 736.2 | 932.0  | 1078.7 | 1100.2 |
| 127.5° | 376.1 | 395.3 | 414.4 | 419.2 | 489.3 | 582.9 | 629.7 | 713.6 | 881.7  | 1007.8 | 1026.0 |
| 130°   | 388.5 | 409.2 | 429.8 | 435.0 | 498.8 | 583.9 | 626.4 | 701.2 | 850.8  | 963.0  | 979.7  |
| 132.5° | 401.3 | 422.0 | 442.7 | 447.8 | 506.4 | 584.4 | 623.4 | 690.4 | 824.3  | 924.8  | 939.8  |
| 135°   | 420.4 | 439.3 | 458.1 | 462.8 | 514.7 | 583.9 | 618.4 | 674.5 | 786.7  | 870.8  | 883.7  |
| 137.5° | 440.0 | 458.5 | 477.2 | 481.8 | 527.1 | 587.4 | 617.6 | 665.0 | 759.8  | 830.9  | 841.6  |
| 140°   | 456.1 | 473.3 | 490.5 | 494.8 | 534.8 | 588.1 | 614.7 | 655.6 | 737.6  | 799.0  | 808.9  |
| 142.5° | 468.6 | 484.5 | 500.4 | 504.3 | 541.1 | 590.1 | 614.7 | 650.6 | 722.6  | 776.6  | 785.1  |
| 145°   | 487.7 | 501.6 | 515.3 | 518.8 | 549.4 | 590.2 | 610.6 | 640.0 | 698.8  | 742.9  | 749.4  |
| 147.5° | 506.7 | 520.2 | 533.7 | 537.1 | 561.5 | 594.2 | 610.6 | 633.7 | 680.0  | 714.7  | 720.1  |
| 150°   | 519.2 | 531.4 | 543.6 | 546.6 | 568.0 | 596.4 | 610.6 | 630.1 | 669.2  | 698.6  | 702.9  |
| 152.5° | 532.1 | 541.4 | 550.6 | 552.9 | 572.1 | 597.7 | 610.6 | 627.2 | 660.6  | 685.7  | 689.0  |
| 155°   | 551.2 | 558.0 | 564.8 | 566.5 | 581.2 | 600.7 | 610.6 | 623.9 | 650.5  | 670.4  | 672.5  |
| 157.5° | 565.3 | 572.0 | 578.6 | 580.3 | 590.4 | 603.9 | 610.6 | 620.9 | 641.5  | 657.1  | 658.6  |
| 160°   | 574.8 | 580.0 | 585.2 | 586.5 | 594.5 | 605.2 | 610.6 | 619.4 | 637.1  | 650.4  | 651.3  |
| 162.5° | 584.4 | 588.3 | 592.2 | 593.1 | 598.9 | 606.7 | 610.6 | 618.1 | 633.0  | 644.2  | 645.0  |
| 165°   | 594.8 | 598.3 | 601.8 | 602.7 | 605.3 | 608.8 | 610.6 | 615.9 | 626.6  | 634.7  | 635.5  |
| 167.5° | 604.3 | 606.0 | 607.6 | 608.1 | 610.3 | 613.2 | 614.7 | 618.1 | 625.2  | 630.5  | 630.8  |
| 170°   | 610.6 | 612.2 | 613.9 | 614.3 | 614.4 | 614.6 | 614.7 | 618.1 | 625.2  | 630.5  | 630.5  |
| 172.5° | 613.9 | 614.2 | 614.6 | 614.7 | 614.7 | 614.7 | 614.7 | 617.4 | 623.0  | 627.2  | 626.8  |
| 175°   | 618.4 | 618.4 | 618.4 | 618.4 | 617.2 | 615.5 | 614.7 | 616.4 | 619.9  | 622.6  | 622.6  |
| 177.5° | 618.4 | 618.4 | 618.4 | 618.4 | 617.4 | 616.2 | 615.6 | 617.0 | 619.7  | 621.8  | 621.4  |
| 180°   | 618.4 | 618.4 | 618.4 | 618.4 | 618.4 | 618.4 | 618.4 | 618.4 | 618.4  | 618.4  | 618.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|
| 0°     | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1 | 949.1 | 949.1 | 949.1 | 949.1  |
| 2.5°   | 973.4  | 970.7  | 973.4  | 971.6  | 972.5  | 969.8  | 961.7 | 959.0 | 961.7 | 964.4 | 964.4  |
| 5°     | 985.1  | 983.2  | 985.1  | 985.1  | 984.2  | 982.3  | 973.4 | 971.6 | 973.4 | 974.3 | 972.5  |
| 7.5°   | 988.7  | 986.0  | 988.7  | 986.9  | 986.9  | 985.1  | 976.1 | 974.3 | 975.2 | 977.9 | 975.2  |
| 10°    | 988.7  | 986.0  | 988.7  | 987.8  | 986.9  | 985.1  | 976.1 | 972.5 | 972.5 | 975.2 | 972.5  |
| 12.5°  | 984.2  | 982.3  | 984.2  | 982.3  | 982.3  | 980.5  | 971.6 | 968.0 | 968.9 | 969.8 | 966.2  |
| 15°    | 977.0  | 974.3  | 977.0  | 975.2  | 976.1  | 973.4  | 963.5 | 959.9 | 959.9 | 961.7 | 955.5  |
| 17.5°  | 966.2  | 962.6  | 966.2  | 965.3  | 964.4  | 962.6  | 953.6 | 950.0 | 949.1 | 950.0 | 945.6  |
| 20°    | 953.6  | 950.9  | 953.6  | 952.7  | 952.7  | 949.1  | 940.2 | 935.6 | 935.6 | 935.6 | 931.2  |
| 22.5°  | 933.9  | 931.2  | 933.9  | 935.6  | 935.6  | 934.8  | 926.7 | 920.4 | 918.6 | 918.6 | 913.2  |
| 25°    | 911.5  | 908.8  | 911.5  | 911.5  | 910.6  | 911.5  | 908.8 | 905.1 | 902.4 | 899.8 | 894.4  |
| 27.5°  | 889.9  | 888.1  | 889.9  | 888.1  | 889.9  | 887.2  | 886.3 | 885.4 | 881.8 | 879.1 | 871.9  |
| 30°    | 868.3  | 866.6  | 868.3  | 866.6  | 864.8  | 862.9  | 858.4 | 856.6 | 860.2 | 858.4 | 846.7  |
| 32.5°  | 841.4  | 839.6  | 841.4  | 841.4  | 839.6  | 839.6  | 832.4 | 829.7 | 830.6 | 836.0 | 825.2  |
| 35°    | 813.5  | 810.9  | 813.5  | 812.6  | 813.5  | 810.9  | 806.4 | 805.5 | 801.8 | 808.2 | 800.1  |
| 37.5°  | 781.2  | 778.5  | 781.2  | 781.2  | 781.2  | 783.0  | 779.4 | 776.8 | 771.3 | 779.4 | 773.1  |
| 40°    | 748.0  | 744.4  | 748.0  | 747.1  | 748.0  | 749.8  | 748.0 | 746.2 | 740.8 | 747.1 | 741.7  |
| 42.5°  | 710.3  | 709.4  | 710.3  | 711.2  | 711.2  | 714.8  | 717.5 | 713.9 | 712.0 | 707.6 | 711.2  |
| 45°    | 669.9  | 668.0  | 669.9  | 671.7  | 672.6  | 674.4  | 682.4 | 682.4 | 679.7 | 672.6 | 677.9  |
| 47.5°  | 626.8  | 622.2  | 626.8  | 632.2  | 632.2  | 634.8  | 643.0 | 649.2 | 644.7 | 635.7 | 638.5  |
| 50°    | 581.0  | 581.9  | 581.0  | 584.6  | 584.6  | 594.5  | 600.7 | 607.0 | 611.5 | 600.7 | 588.1  |
| 52.5°  | 536.1  | 535.2  | 536.1  | 538.8  | 542.4  | 546.8  | 557.6 | 564.0 | 571.1 | 564.8 | 545.0  |
| 55°    | 491.2  | 493.0  | 491.2  | 492.1  | 493.9  | 496.6  | 512.7 | 519.1 | 532.4 | 524.4 | 503.8  |
| 57.5°  | 446.3  | 443.6  | 446.3  | 448.1  | 449.0  | 451.7  | 465.1 | 476.8 | 484.9 | 485.8 | 460.7  |
| 60°    | 394.2  | 390.6  | 394.2  | 402.3  | 404.1  | 405.9  | 418.5 | 429.3 | 436.4 | 439.1 | 413.1  |
| 62.5°  | 348.4  | 342.1  | 348.4  | 353.8  | 357.4  | 361.9  | 370.9 | 387.0 | 393.3 | 394.2 | 357.4  |
| 65°    | 299.9  | 297.2  | 299.9  | 310.7  | 311.6  | 317.0  | 326.9 | 338.6 | 352.0 | 350.2 | 297.2  |
| 67.5°  | 255.9  | 255.9  | 255.9  | 263.1  | 268.5  | 271.2  | 283.8 | 289.1 | 306.2 | 308.0 | 247.9  |
| 70°    | 215.5  | 214.6  | 215.5  | 220.9  | 224.5  | 230.7  | 242.4 | 248.8 | 262.2 | 266.7 | 201.1  |
| 72.5°  | 176.9  | 176.0  | 176.9  | 181.4  | 185.0  | 190.4  | 200.2 | 207.4 | 219.1 | 224.5 | 156.2  |
| 75°    | 142.8  | 140.9  | 142.8  | 146.4  | 145.5  | 152.6  | 160.8 | 167.9 | 178.7 | 182.3 | 115.9  |
| 77.5°  | 109.5  | 109.5  | 109.5  | 113.2  | 113.2  | 120.3  | 123.9 | 132.9 | 139.2 | 144.6 | 85.3   |
| 80°    | 81.7   | 80.8   | 81.7   | 82.7   | 82.7   | 86.2   | 92.5  | 98.8  | 104.2 | 104.2 | 58.4   |
| 82.5°  | 57.5   | 55.7   | 57.5   | 57.5   | 57.5   | 59.3   | 62.8  | 64.6  | 68.3  | 71.0  | 36.8   |
| 85°    | 35.9   | 35.9   | 35.9   | 36.8   | 35.9   | 37.8   | 38.7  | 40.4  | 40.4  | 38.7  | 22.4   |
| 87.5°  | 23.4   | 22.4   | 23.4   | 22.4   | 22.4   | 21.5   | 21.5  | 21.5  | 20.6  | 19.7  | 12.6   |
| 90°    | 15.8   | 15.8   | 15.8   | 15.8   | 15.8   | 21.1   | 28.0  | 31.5  | 27.0  | 18.2  | 11.6   |
| 92.5°  | 63.1   | 50.6   | 63.1   | 75.7   | 78.8   | 111.8  | 155.7 | 177.6 | 155.9 | 112.6 | 80.1   |
| 95°    | 220.2  | 182.2  | 220.2  | 258.2  | 267.7  | 351.5  | 463.4 | 519.2 | 438.5 | 277.1 | 156.0  |
| 97.5°  | 527.6  | 455.3  | 527.6  | 599.9  | 618.1  | 671.1  | 741.7 | 777.0 | 642.4 | 373.3 | 171.4  |
| 100°   | 760.2  | 674.0  | 760.2  | 846.4  | 867.9  | 864.1  | 858.9 | 856.3 | 707.0 | 408.3 | 184.3  |
| 102.5° | 989.0  | 915.2  | 989.0  | 1062.8 | 1081.2 | 1013.7 | 923.7 | 878.7 | 727.2 | 424.4 | 197.2  |
| 105°   | 1280.6 | 1241.0 | 1280.6 | 1320.4 | 1330.3 | 1178.9 | 977.1 | 876.2 | 729.5 | 436.2 | 216.3  |
| 107.5° | 1471.8 | 1481.3 | 1471.8 | 1462.2 | 1459.8 | 1248.7 | 967.2 | 826.4 | 697.0 | 438.5 | 244.5  |
| 110°   | 1544.6 | 1585.9 | 1544.6 | 1503.4 | 1493.0 | 1257.0 | 942.2 | 784.9 | 668.3 | 435.1 | 260.2  |





TEST NUMBER: P934639

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|
| 112.5° | 1551.1 | 1614.6 | 1551.1 | 1487.6 | 1471.8 | 1230.2 | 908.2 | 747.1 | 643.1 | 435.2 | 279.3  |
| 115°   | 1510.0 | 1598.0 | 1510.0 | 1421.9 | 1400.0 | 1167.3 | 857.0 | 701.9 | 614.3 | 439.3 | 308.0  |
| 117.5° | 1422.7 | 1520.3 | 1422.7 | 1325.2 | 1300.8 | 1090.8 | 810.8 | 670.7 | 596.3 | 447.5 | 335.8  |
| 120°   | 1352.5 | 1447.3 | 1352.5 | 1257.7 | 1234.0 | 1042.0 | 786.2 | 658.3 | 590.2 | 454.1 | 352.0  |
| 122.5° | 1284.0 | 1377.6 | 1284.0 | 1190.5 | 1167.1 | 994.3  | 763.9 | 648.8 | 587.1 | 463.6 | 371.1  |
| 125°   | 1186.5 | 1272.6 | 1186.5 | 1100.2 | 1078.7 | 932.0  | 736.2 | 638.4 | 584.4 | 476.5 | 395.5  |
| 127.5° | 1098.6 | 1171.3 | 1098.6 | 1026.0 | 1007.8 | 881.7  | 713.6 | 629.7 | 582.9 | 489.3 | 419.2  |
| 130°   | 1046.9 | 1114.0 | 1046.9 | 979.7  | 963.0  | 850.8  | 701.2 | 626.4 | 583.9 | 498.8 | 435.0  |
| 132.5° | 999.9  | 1060.1 | 999.9  | 939.8  | 924.8  | 824.3  | 690.4 | 623.4 | 584.4 | 506.4 | 447.8  |
| 135°   | 935.6  | 987.4  | 935.6  | 883.7  | 870.8  | 786.7  | 674.5 | 618.4 | 583.9 | 514.7 | 462.8  |
| 137.5° | 884.0  | 926.5  | 884.0  | 841.6  | 830.9  | 759.8  | 665.0 | 617.6 | 587.4 | 527.1 | 481.8  |
| 140°   | 848.6  | 888.2  | 848.6  | 808.9  | 799.0  | 737.6  | 655.6 | 614.7 | 588.1 | 534.8 | 494.8  |
| 142.5° | 819.2  | 853.3  | 819.2  | 785.1  | 776.6  | 722.6  | 650.6 | 614.7 | 590.1 | 541.1 | 504.3  |
| 145°   | 775.2  | 801.0  | 775.2  | 749.4  | 742.9  | 698.8  | 640.0 | 610.6 | 590.2 | 549.4 | 518.8  |
| 147.5° | 741.4  | 762.8  | 741.4  | 720.1  | 714.7  | 680.0  | 633.7 | 610.6 | 594.2 | 561.5 | 537.1  |
| 150°   | 720.3  | 737.6  | 720.3  | 702.9  | 698.6  | 669.2  | 630.1 | 610.6 | 596.4 | 568.0 | 546.6  |
| 152.5° | 702.0  | 715.2  | 702.0  | 689.0  | 685.7  | 660.6  | 627.2 | 610.6 | 597.7 | 572.1 | 552.9  |
| 155°   | 681.2  | 689.8  | 681.2  | 672.5  | 670.4  | 650.5  | 623.9 | 610.6 | 600.7 | 581.2 | 566.5  |
| 157.5° | 664.6  | 670.7  | 664.6  | 658.6  | 657.1  | 641.5  | 620.9 | 610.6 | 603.9 | 590.4 | 580.3  |
| 160°   | 654.7  | 658.3  | 654.7  | 651.3  | 650.4  | 637.1  | 619.4 | 610.6 | 605.2 | 594.5 | 586.5  |
| 162.5° | 648.3  | 651.6  | 648.3  | 645.0  | 644.2  | 633.0  | 618.1 | 610.6 | 606.7 | 598.9 | 593.1  |
| 165°   | 639.0  | 642.5  | 639.0  | 635.5  | 634.7  | 626.6  | 615.9 | 610.6 | 608.8 | 605.3 | 602.7  |
| 167.5° | 632.3  | 633.8  | 632.3  | 630.8  | 630.5  | 625.2  | 618.1 | 614.7 | 613.2 | 610.3 | 608.1  |
| 170°   | 630.5  | 630.5  | 630.5  | 630.5  | 630.5  | 625.2  | 618.1 | 614.7 | 614.6 | 614.4 | 614.3  |
| 172.5° | 625.5  | 624.2  | 625.5  | 626.8  | 627.2  | 623.0  | 617.4 | 614.7 | 614.7 | 614.7 | 614.7  |
| 175°   | 622.6  | 622.6  | 622.6  | 622.6  | 622.6  | 619.9  | 616.4 | 614.7 | 615.5 | 617.2 | 618.4  |
| 177.5° | 619.9  | 618.4  | 619.9  | 621.4  | 621.8  | 619.7  | 617.0 | 615.6 | 616.2 | 617.4 | 618.4  |
| 180°   | 618.4  | 618.4  | 618.4  | 618.4  | 618.4  | 618.4  | 618.4 | 618.4 | 618.4 | 618.4 | 618.4  |



TEST NUMBER: P934639

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°   |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|
| 0°     | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1  | 949.1 | 949.1 | 949.1 | 949.1 | 949.1  |
| 2.5°   | 962.6 | 957.2 | 957.2 | 948.2 | 944.7 | 942.0  | 937.4 | 924.0 | 920.4 | 916.8 | 922.2  |
| 5°     | 970.7 | 960.8 | 953.6 | 937.4 | 924.0 | 918.6  | 901.5 | 869.2 | 847.6 | 831.5 | 822.5  |
| 7.5°   | 972.5 | 959.9 | 946.4 | 921.3 | 889.0 | 874.6  | 822.5 | 763.3 | 747.1 | 732.8 | 723.7  |
| 10°    | 970.7 | 956.4 | 937.4 | 899.8 | 823.4 | 798.3  | 746.2 | 707.6 | 697.7 | 695.0 | 697.7  |
| 12.5°  | 964.4 | 950.9 | 924.9 | 862.0 | 755.2 | 738.1  | 707.6 | 685.2 | 683.3 | 687.9 | 712.0  |
| 15°    | 953.6 | 941.1 | 910.6 | 811.7 | 717.5 | 704.9  | 683.3 | 675.3 | 685.2 | 716.6 | 789.3  |
| 17.5°  | 942.9 | 928.5 | 890.7 | 762.4 | 688.7 | 679.7  | 664.5 | 680.6 | 736.3 | 778.5 | 802.7  |
| 20°    | 928.5 | 911.5 | 868.3 | 726.4 | 668.0 | 660.0  | 652.8 | 725.5 | 767.7 | 783.0 | 796.5  |
| 22.5°  | 911.5 | 893.4 | 837.8 | 701.3 | 646.5 | 640.3  | 644.7 | 750.7 | 767.7 | 778.5 | 790.2  |
| 25°    | 889.0 | 873.7 | 801.8 | 681.5 | 629.5 | 622.2  | 639.4 | 748.0 | 757.8 | 760.6 | 783.9  |
| 27.5°  | 868.3 | 848.5 | 764.2 | 663.6 | 608.9 | 606.1  | 643.8 | 736.3 | 743.6 | 746.2 | 771.3  |
| 30°    | 843.2 | 813.5 | 722.0 | 644.7 | 587.3 | 586.4  | 644.7 | 722.0 | 720.2 | 727.3 | 752.5  |
| 32.5°  | 817.1 | 761.5 | 674.4 | 621.4 | 566.6 | 565.7  | 638.5 | 700.4 | 698.7 | 708.5 | 727.3  |
| 35°    | 792.9 | 721.1 | 609.7 | 594.5 | 540.6 | 541.5  | 623.1 | 675.3 | 676.2 | 685.2 | 696.8  |
| 37.5°  | 767.7 | 686.1 | 538.8 | 564.8 | 515.4 | 515.4  | 602.5 | 651.9 | 650.1 | 652.8 | 669.0  |
| 40°    | 738.1 | 631.3 | 475.9 | 526.2 | 492.1 | 489.4  | 577.3 | 626.8 | 620.5 | 619.6 | 642.1  |
| 42.5°  | 706.7 | 571.1 | 429.3 | 475.1 | 465.1 | 461.6  | 546.8 | 596.3 | 584.6 | 587.3 | 616.0  |
| 45°    | 672.6 | 554.9 | 393.3 | 401.4 | 437.3 | 434.6  | 513.6 | 561.2 | 553.2 | 560.3 | 589.9  |
| 47.5°  | 638.5 | 522.6 | 381.6 | 333.1 | 407.7 | 406.8  | 476.8 | 527.1 | 522.6 | 529.8 | 561.2  |
| 50°    | 591.7 | 486.7 | 380.7 | 285.5 | 374.5 | 378.0  | 432.8 | 493.9 | 493.9 | 500.1 | 533.4  |
| 52.5°  | 531.6 | 442.7 | 345.7 | 258.6 | 335.8 | 346.6  | 394.2 | 465.1 | 466.9 | 473.3 | 502.8  |
| 55°    | 476.8 | 396.9 | 320.5 | 238.0 | 290.0 | 313.4  | 356.5 | 435.5 | 439.1 | 445.4 | 472.3  |
| 57.5°  | 426.5 | 330.4 | 315.2 | 213.7 | 247.9 | 270.3  | 323.3 | 406.8 | 408.6 | 414.0 | 440.0  |
| 60°    | 372.7 | 238.9 | 289.1 | 187.6 | 211.0 | 228.1  | 292.7 | 372.7 | 378.9 | 382.5 | 405.0  |
| 62.5°  | 311.6 | 173.3 | 262.2 | 169.7 | 193.1 | 196.6  | 267.6 | 340.4 | 348.4 | 351.1 | 364.5  |
| 65°    | 221.8 | 145.5 | 222.7 | 154.4 | 174.2 | 175.1  | 240.7 | 307.1 | 314.3 | 318.8 | 328.7  |
| 67.5°  | 150.0 | 118.5 | 169.7 | 140.1 | 159.9 | 160.8  | 214.6 | 268.5 | 278.4 | 282.0 | 288.2  |
| 70°    | 104.2 | 79.0  | 125.7 | 124.8 | 143.7 | 145.5  | 186.7 | 233.5 | 242.4 | 245.1 | 248.8  |
| 72.5°  | 76.3  | 63.7  | 104.2 | 112.2 | 126.6 | 128.4  | 158.1 | 194.0 | 203.0 | 205.7 | 207.4  |
| 75°    | 58.4  | 67.3  | 84.4  | 97.9  | 107.7 | 108.6  | 129.3 | 158.1 | 164.3 | 166.1 | 167.0  |
| 77.5°  | 46.7  | 62.8  | 61.9  | 79.0  | 88.0  | 86.2   | 101.5 | 122.1 | 127.5 | 127.5 | 127.5  |
| 80°    | 35.0  | 49.4  | 46.7  | 56.6  | 64.6  | 62.8   | 72.7  | 87.1  | 88.9  | 90.7  | 89.8   |
| 82.5°  | 26.1  | 31.4  | 31.4  | 35.9  | 43.1  | 41.3   | 48.5  | 56.6  | 56.6  | 56.6  | 58.4   |
| 85°    | 16.2  | 17.9  | 14.4  | 18.8  | 24.3  | 23.4   | 27.0  | 30.5  | 31.4  | 31.4  | 29.6   |
| 87.5°  | 9.9   | 8.1   | 4.5   | 7.1   | 10.8  | 10.8   | 12.6  | 13.5  | 12.6  | 12.6  | 12.6   |
| 90°    | 10.8  | 7.4   | 4.1   | 7.4   | 10.8  | 11.6   | 18.2  | 27.0  | 31.5  | 28.0  | 21.1   |
| 92.5°  | 73.0  | 44.8  | 16.6  | 44.8  | 73.0  | 80.1   | 112.6 | 155.9 | 177.6 | 155.7 | 111.8  |
| 95°    | 143.1 | 91.5  | 39.8  | 91.5  | 143.1 | 156.0  | 277.1 | 438.5 | 519.2 | 463.4 | 351.5  |
| 97.5°  | 160.0 | 114.4 | 68.9  | 114.4 | 160.0 | 171.4  | 373.3 | 642.4 | 777.0 | 741.7 | 671.1  |
| 100°   | 174.0 | 132.6 | 91.3  | 132.6 | 174.0 | 184.3  | 408.3 | 707.0 | 856.3 | 858.9 | 864.1  |
| 102.5° | 187.5 | 149.0 | 110.4 | 149.0 | 187.5 | 197.2  | 424.4 | 727.2 | 878.7 | 923.7 | 1013.7 |
| 105°   | 208.2 | 175.5 | 142.8 | 175.5 | 208.2 | 216.3  | 436.2 | 729.5 | 876.2 | 977.1 | 1178.9 |
| 107.5° | 236.9 | 206.5 | 176.0 | 206.5 | 236.9 | 244.5  | 438.5 | 697.0 | 826.4 | 967.2 | 1248.7 |
| 110°   | 253.3 | 225.9 | 198.4 | 225.9 | 253.3 | 260.2  | 435.1 | 668.3 | 784.9 | 942.2 | 1257.0 |



TEST NUMBER: P934639

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°   |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|
| 112.5° | 272.8 | 246.5 | 220.4 | 246.5 | 272.8 | 279.3  | 435.2 | 643.1 | 747.1 | 908.2 | 1230.2 |
| 115°   | 301.9 | 277.8 | 253.6 | 277.8 | 301.9 | 308.0  | 439.3 | 614.3 | 701.9 | 857.0 | 1167.3 |
| 117.5° | 330.3 | 308.3 | 286.4 | 308.3 | 330.3 | 335.8  | 447.5 | 596.3 | 670.7 | 810.8 | 1090.8 |
| 120°   | 346.8 | 326.2 | 305.5 | 326.2 | 346.8 | 352.0  | 454.1 | 590.2 | 658.3 | 786.2 | 1042.0 |
| 122.5° | 365.9 | 345.0 | 324.2 | 345.0 | 365.9 | 371.1  | 463.6 | 587.1 | 648.8 | 763.9 | 994.3  |
| 125°   | 390.8 | 371.8 | 352.8 | 371.8 | 390.8 | 395.5  | 476.5 | 584.4 | 638.4 | 736.2 | 932.0  |
| 127.5° | 414.4 | 395.3 | 376.1 | 395.3 | 414.4 | 419.2  | 489.3 | 582.9 | 629.7 | 713.6 | 881.7  |
| 130°   | 429.8 | 409.2 | 388.5 | 409.2 | 429.8 | 435.0  | 498.8 | 583.9 | 626.4 | 701.2 | 850.8  |
| 132.5° | 442.7 | 422.0 | 401.3 | 422.0 | 442.7 | 447.8  | 506.4 | 584.4 | 623.4 | 690.4 | 824.3  |
| 135°   | 458.1 | 439.3 | 420.4 | 439.3 | 458.1 | 462.8  | 514.7 | 583.9 | 618.4 | 674.5 | 786.7  |
| 137.5° | 477.2 | 458.5 | 440.0 | 458.5 | 477.2 | 481.8  | 527.1 | 587.4 | 617.6 | 665.0 | 759.8  |
| 140°   | 490.5 | 473.3 | 456.1 | 473.3 | 490.5 | 494.8  | 534.8 | 588.1 | 614.7 | 655.6 | 737.6  |
| 142.5° | 500.4 | 484.5 | 468.6 | 484.5 | 500.4 | 504.3  | 541.1 | 590.1 | 614.7 | 650.6 | 722.6  |
| 145°   | 515.3 | 501.6 | 487.7 | 501.6 | 515.3 | 518.8  | 549.4 | 590.2 | 610.6 | 640.0 | 698.8  |
| 147.5° | 533.7 | 520.2 | 506.7 | 520.2 | 533.7 | 537.1  | 561.5 | 594.2 | 610.6 | 633.7 | 680.0  |
| 150°   | 543.6 | 531.4 | 519.2 | 531.4 | 543.6 | 546.6  | 568.0 | 596.4 | 610.6 | 630.1 | 669.2  |
| 152.5° | 550.6 | 541.4 | 532.1 | 541.4 | 550.6 | 552.9  | 572.1 | 597.7 | 610.6 | 627.2 | 660.6  |
| 155°   | 564.8 | 558.0 | 551.2 | 558.0 | 564.8 | 566.5  | 581.2 | 600.7 | 610.6 | 623.9 | 650.5  |
| 157.5° | 578.6 | 572.0 | 565.3 | 572.0 | 578.6 | 580.3  | 590.4 | 603.9 | 610.6 | 620.9 | 641.5  |
| 160°   | 585.2 | 580.0 | 574.8 | 580.0 | 585.2 | 586.5  | 594.5 | 605.2 | 610.6 | 619.4 | 637.1  |
| 162.5° | 592.2 | 588.3 | 584.4 | 588.3 | 592.2 | 593.1  | 598.9 | 606.7 | 610.6 | 618.1 | 633.0  |
| 165°   | 601.8 | 598.3 | 594.8 | 598.3 | 601.8 | 602.7  | 605.3 | 608.8 | 610.6 | 615.9 | 626.6  |
| 167.5° | 607.6 | 606.0 | 604.3 | 606.0 | 607.6 | 608.1  | 610.3 | 613.2 | 614.7 | 618.1 | 625.2  |
| 170°   | 613.9 | 612.2 | 610.6 | 612.2 | 613.9 | 614.3  | 614.4 | 614.6 | 614.7 | 618.1 | 625.2  |
| 172.5° | 614.6 | 614.2 | 613.9 | 614.2 | 614.6 | 614.7  | 614.7 | 614.7 | 614.7 | 617.4 | 623.0  |
| 175°   | 618.4 | 618.4 | 618.4 | 618.4 | 618.4 | 618.4  | 617.2 | 615.5 | 614.7 | 616.4 | 619.9  |
| 177.5° | 618.4 | 618.4 | 618.4 | 618.4 | 618.4 | 618.4  | 617.4 | 616.2 | 615.6 | 617.0 | 619.7  |
| 180°   | 618.4 | 618.4 | 618.4 | 618.4 | 618.4 | 618.4  | 618.4 | 618.4 | 618.4 | 618.4 | 618.4  |



TEST NUMBER: P934639

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°  | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°     | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1 | 949.1 | 949.1 |
| 2.5°   | 915.9  | 913.2  | 916.8  | 906.9  | 916.8  | 913.2  | 915.9  | 922.2  | 916.8 | 920.4 | 924.0 |
| 5°     | 803.7  | 799.2  | 784.8  | 773.1  | 784.8  | 799.2  | 803.7  | 822.5  | 831.5 | 847.6 | 869.2 |
| 7.5°   | 718.4  | 714.8  | 711.2  | 704.0  | 711.2  | 714.8  | 718.4  | 723.7  | 732.8 | 747.1 | 763.3 |
| 10°    | 699.5  | 700.4  | 705.8  | 704.9  | 705.8  | 700.4  | 699.5  | 697.7  | 695.0 | 697.7 | 707.6 |
| 12.5°  | 748.0  | 756.0  | 785.7  | 783.9  | 785.7  | 756.0  | 748.0  | 712.0  | 687.9 | 683.3 | 685.2 |
| 15°    | 803.7  | 806.4  | 812.6  | 813.5  | 812.6  | 806.4  | 803.7  | 789.3  | 716.6 | 685.2 | 675.3 |
| 17.5°  | 809.1  | 810.0  | 814.4  | 814.4  | 814.4  | 810.0  | 809.1  | 802.7  | 778.5 | 736.3 | 680.6 |
| 20°    | 804.6  | 806.4  | 815.3  | 817.1  | 815.3  | 806.4  | 804.6  | 796.5  | 783.0 | 767.7 | 725.5 |
| 22.5°  | 802.7  | 806.4  | 813.5  | 812.6  | 813.5  | 806.4  | 802.7  | 790.2  | 778.5 | 767.7 | 750.7 |
| 25°    | 793.8  | 793.8  | 794.7  | 795.6  | 794.7  | 793.8  | 793.8  | 783.9  | 760.6 | 757.8 | 748.0 |
| 27.5°  | 775.0  | 776.8  | 782.1  | 781.2  | 782.1  | 776.8  | 775.0  | 771.3  | 746.2 | 743.6 | 736.3 |
| 30°    | 757.8  | 756.0  | 751.6  | 748.0  | 751.6  | 756.0  | 757.8  | 752.5  | 727.3 | 720.2 | 722.0 |
| 32.5°  | 729.2  | 724.6  | 720.2  | 717.5  | 720.2  | 724.6  | 729.2  | 727.3  | 708.5 | 698.7 | 700.4 |
| 35°    | 695.0  | 695.9  | 695.0  | 692.3  | 695.0  | 695.9  | 695.0  | 696.8  | 685.2 | 676.2 | 675.3 |
| 37.5°  | 670.8  | 672.6  | 671.7  | 668.0  | 671.7  | 672.6  | 670.8  | 669.0  | 652.8 | 650.1 | 651.9 |
| 40°    | 645.6  | 646.5  | 645.6  | 643.0  | 645.6  | 646.5  | 645.6  | 642.1  | 619.6 | 620.5 | 626.8 |
| 42.5°  | 621.4  | 620.5  | 617.8  | 616.0  | 617.8  | 620.5  | 621.4  | 616.0  | 587.3 | 584.6 | 596.3 |
| 45°    | 593.6  | 594.5  | 589.0  | 586.4  | 589.0  | 594.5  | 593.6  | 589.9  | 560.3 | 553.2 | 561.2 |
| 47.5°  | 565.7  | 565.7  | 561.2  | 558.5  | 561.2  | 565.7  | 565.7  | 561.2  | 529.8 | 522.6 | 527.1 |
| 50°    | 536.1  | 535.2  | 528.9  | 528.0  | 528.9  | 535.2  | 536.1  | 533.4  | 500.1 | 493.9 | 493.9 |
| 52.5°  | 501.9  | 501.9  | 502.8  | 504.7  | 502.8  | 501.9  | 501.9  | 502.8  | 473.3 | 466.9 | 465.1 |
| 55°    | 472.3  | 473.3  | 479.5  | 481.3  | 479.5  | 473.3  | 472.3  | 472.3  | 445.4 | 439.1 | 435.5 |
| 57.5°  | 441.8  | 441.8  | 446.3  | 446.3  | 446.3  | 441.8  | 441.8  | 440.0  | 414.0 | 408.6 | 406.8 |
| 60°    | 406.8  | 408.6  | 412.1  | 411.2  | 412.1  | 408.6  | 406.8  | 405.0  | 382.5 | 378.9 | 372.7 |
| 62.5°  | 370.0  | 371.8  | 372.7  | 370.9  | 372.7  | 371.8  | 370.0  | 364.5  | 351.1 | 348.4 | 340.4 |
| 65°    | 331.3  | 333.1  | 334.0  | 332.2  | 334.0  | 333.1  | 331.3  | 328.7  | 318.8 | 314.3 | 307.1 |
| 67.5°  | 291.8  | 290.9  | 290.0  | 293.7  | 290.0  | 290.9  | 291.8  | 288.2  | 282.0 | 278.4 | 268.5 |
| 70°    | 251.5  | 251.5  | 250.6  | 252.3  | 250.6  | 251.5  | 251.5  | 248.8  | 245.1 | 242.4 | 233.5 |
| 72.5°  | 208.3  | 207.4  | 211.0  | 208.3  | 211.0  | 207.4  | 208.3  | 207.4  | 205.7 | 203.0 | 194.0 |
| 75°    | 166.1  | 167.9  | 166.1  | 168.8  | 166.1  | 167.9  | 166.1  | 167.0  | 166.1 | 164.3 | 158.1 |
| 77.5°  | 126.6  | 128.4  | 126.6  | 126.6  | 126.6  | 128.4  | 126.6  | 127.5  | 127.5 | 127.5 | 122.1 |
| 80°    | 89.8   | 88.9   | 88.9   | 88.0   | 88.9   | 88.9   | 89.8   | 89.8   | 90.7  | 88.9  | 87.1  |
| 82.5°  | 57.5   | 56.6   | 56.6   | 58.4   | 56.6   | 56.6   | 57.5   | 58.4   | 56.6  | 56.6  | 56.6  |
| 85°    | 31.4   | 32.3   | 30.5   | 30.5   | 30.5   | 32.3   | 31.4   | 29.6   | 31.4  | 31.4  | 30.5  |
| 87.5°  | 11.7   | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 11.7   | 12.6   | 12.6  | 12.6  | 13.5  |
| 90°    | 15.8   | 15.8   | 15.8   | 15.8   | 15.8   | 15.8   | 15.8   | 21.1   | 28.0  | 31.5  | 27.0  |
| 92.5°  | 78.8   | 75.7   | 63.1   | 50.6   | 63.1   | 75.7   | 78.8   | 111.8  | 155.7 | 177.6 | 155.9 |
| 95°    | 267.7  | 258.2  | 220.2  | 182.2  | 220.2  | 258.2  | 267.7  | 351.5  | 463.4 | 519.2 | 438.5 |
| 97.5°  | 618.1  | 599.9  | 527.6  | 455.3  | 527.6  | 599.9  | 618.1  | 671.1  | 741.7 | 777.0 | 642.4 |
| 100°   | 867.9  | 846.4  | 760.2  | 674.0  | 760.2  | 846.4  | 867.9  | 864.1  | 858.9 | 856.3 | 707.0 |
| 102.5° | 1081.2 | 1062.8 | 989.0  | 915.2  | 989.0  | 1062.8 | 1081.2 | 1013.7 | 923.7 | 878.7 | 727.2 |
| 105°   | 1330.3 | 1320.4 | 1280.6 | 1241.0 | 1280.6 | 1320.4 | 1330.3 | 1178.9 | 977.1 | 876.2 | 729.5 |
| 107.5° | 1459.8 | 1462.2 | 1471.8 | 1481.3 | 1471.8 | 1462.2 | 1459.8 | 1248.7 | 967.2 | 826.4 | 697.0 |
| 110°   | 1493.0 | 1503.4 | 1544.6 | 1585.9 | 1544.6 | 1503.4 | 1493.0 | 1257.0 | 942.2 | 784.9 | 668.3 |



TEST NUMBER: P934639

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°  | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 112.5° | 1471.8 | 1487.6 | 1551.1 | 1614.6 | 1551.1 | 1487.6 | 1471.8 | 1230.2 | 908.2 | 747.1 | 643.1 |
| 115°   | 1400.0 | 1421.9 | 1510.0 | 1598.0 | 1510.0 | 1421.9 | 1400.0 | 1167.3 | 857.0 | 701.9 | 614.3 |
| 117.5° | 1300.8 | 1325.2 | 1422.7 | 1520.3 | 1422.7 | 1325.2 | 1300.8 | 1090.8 | 810.8 | 670.7 | 596.3 |
| 120°   | 1234.0 | 1257.7 | 1352.5 | 1447.3 | 1352.5 | 1257.7 | 1234.0 | 1042.0 | 786.2 | 658.3 | 590.2 |
| 122.5° | 1167.1 | 1190.5 | 1284.0 | 1377.6 | 1284.0 | 1190.5 | 1167.1 | 994.3  | 763.9 | 648.8 | 587.1 |
| 125°   | 1078.7 | 1100.2 | 1186.5 | 1272.6 | 1186.5 | 1100.2 | 1078.7 | 932.0  | 736.2 | 638.4 | 584.4 |
| 127.5° | 1007.8 | 1026.0 | 1098.6 | 1171.3 | 1098.6 | 1026.0 | 1007.8 | 881.7  | 713.6 | 629.7 | 582.9 |
| 130°   | 963.0  | 979.7  | 1046.9 | 1114.0 | 1046.9 | 979.7  | 963.0  | 850.8  | 701.2 | 626.4 | 583.9 |
| 132.5° | 924.8  | 939.8  | 999.9  | 1060.1 | 999.9  | 939.8  | 924.8  | 824.3  | 690.4 | 623.4 | 584.4 |
| 135°   | 870.8  | 883.7  | 935.6  | 987.4  | 935.6  | 883.7  | 870.8  | 786.7  | 674.5 | 618.4 | 583.9 |
| 137.5° | 830.9  | 841.6  | 884.0  | 926.5  | 884.0  | 841.6  | 830.9  | 759.8  | 665.0 | 617.6 | 587.4 |
| 140°   | 799.0  | 808.9  | 848.6  | 888.2  | 848.6  | 808.9  | 799.0  | 737.6  | 655.6 | 614.7 | 588.1 |
| 142.5° | 776.6  | 785.1  | 819.2  | 853.3  | 819.2  | 785.1  | 776.6  | 722.6  | 650.6 | 614.7 | 590.1 |
| 145°   | 742.9  | 749.4  | 775.2  | 801.0  | 775.2  | 749.4  | 742.9  | 698.8  | 640.0 | 610.6 | 590.2 |
| 147.5° | 714.7  | 720.1  | 741.4  | 762.8  | 741.4  | 720.1  | 714.7  | 680.0  | 633.7 | 610.6 | 594.2 |
| 150°   | 698.6  | 702.9  | 720.3  | 737.6  | 720.3  | 702.9  | 698.6  | 669.2  | 630.1 | 610.6 | 596.4 |
| 152.5° | 685.7  | 689.0  | 702.0  | 715.2  | 702.0  | 689.0  | 685.7  | 660.6  | 627.2 | 610.6 | 597.7 |
| 155°   | 670.4  | 672.5  | 681.2  | 689.8  | 681.2  | 672.5  | 670.4  | 650.5  | 623.9 | 610.6 | 600.7 |
| 157.5° | 657.1  | 658.6  | 664.6  | 670.7  | 664.6  | 658.6  | 657.1  | 641.5  | 620.9 | 610.6 | 603.9 |
| 160°   | 650.4  | 651.3  | 654.7  | 658.3  | 654.7  | 651.3  | 650.4  | 637.1  | 619.4 | 610.6 | 605.2 |
| 162.5° | 644.2  | 645.0  | 648.3  | 651.6  | 648.3  | 645.0  | 644.2  | 633.0  | 618.1 | 610.6 | 606.7 |
| 165°   | 634.7  | 635.5  | 639.0  | 642.5  | 639.0  | 635.5  | 634.7  | 626.6  | 615.9 | 610.6 | 608.8 |
| 167.5° | 630.5  | 630.8  | 632.3  | 633.8  | 632.3  | 630.8  | 630.5  | 625.2  | 618.1 | 614.7 | 613.2 |
| 170°   | 630.5  | 630.5  | 630.5  | 630.5  | 630.5  | 630.5  | 630.5  | 625.2  | 618.1 | 614.7 | 614.6 |
| 172.5° | 627.2  | 626.8  | 625.5  | 624.2  | 625.5  | 626.8  | 627.2  | 623.0  | 617.4 | 614.7 | 614.7 |
| 175°   | 622.6  | 622.6  | 622.6  | 622.6  | 622.6  | 622.6  | 622.6  | 619.9  | 616.4 | 614.7 | 615.5 |
| 177.5° | 621.8  | 621.4  | 619.9  | 618.4  | 619.9  | 621.4  | 621.8  | 619.7  | 617.0 | 615.6 | 616.2 |
| 180°   | 618.4  | 618.4  | 618.4  | 618.4  | 618.4  | 618.4  | 618.4  | 618.4  | 618.4 | 618.4 | 618.4 |



TEST NUMBER: P934639

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 0°     | 949.1 | 949.1  | 949.1 | 949.1 | 949.1 |
| 2.5°   | 937.4 | 942.0  | 944.7 | 948.2 | 957.2 |
| 5°     | 901.5 | 918.6  | 924.0 | 937.4 | 953.6 |
| 7.5°   | 822.5 | 874.6  | 889.0 | 921.3 | 946.4 |
| 10°    | 746.2 | 798.3  | 823.4 | 899.8 | 937.4 |
| 12.5°  | 707.6 | 738.1  | 755.2 | 862.0 | 924.9 |
| 15°    | 683.3 | 704.9  | 717.5 | 811.7 | 910.6 |
| 17.5°  | 664.5 | 679.7  | 688.7 | 762.4 | 890.7 |
| 20°    | 652.8 | 660.0  | 668.0 | 726.4 | 868.3 |
| 22.5°  | 644.7 | 640.3  | 646.5 | 701.3 | 837.8 |
| 25°    | 639.4 | 622.2  | 629.5 | 681.5 | 801.8 |
| 27.5°  | 643.8 | 606.1  | 608.9 | 663.6 | 764.2 |
| 30°    | 644.7 | 586.4  | 587.3 | 644.7 | 722.0 |
| 32.5°  | 638.5 | 565.7  | 566.6 | 621.4 | 674.4 |
| 35°    | 623.1 | 541.5  | 540.6 | 594.5 | 609.7 |
| 37.5°  | 602.5 | 515.4  | 515.4 | 564.8 | 538.8 |
| 40°    | 577.3 | 489.4  | 492.1 | 526.2 | 475.9 |
| 42.5°  | 546.8 | 461.6  | 465.1 | 475.1 | 429.3 |
| 45°    | 513.6 | 434.6  | 437.3 | 401.4 | 393.3 |
| 47.5°  | 476.8 | 406.8  | 407.7 | 333.1 | 381.6 |
| 50°    | 432.8 | 378.0  | 374.5 | 285.5 | 380.7 |
| 52.5°  | 394.2 | 346.6  | 335.8 | 258.6 | 345.7 |
| 55°    | 356.5 | 313.4  | 290.0 | 238.0 | 320.5 |
| 57.5°  | 323.3 | 270.3  | 247.9 | 213.7 | 315.2 |
| 60°    | 292.7 | 228.1  | 211.0 | 187.6 | 289.1 |
| 62.5°  | 267.6 | 196.6  | 193.1 | 169.7 | 262.2 |
| 65°    | 240.7 | 175.1  | 174.2 | 154.4 | 222.7 |
| 67.5°  | 214.6 | 160.8  | 159.9 | 140.1 | 169.7 |
| 70°    | 186.7 | 145.5  | 143.7 | 124.8 | 125.7 |
| 72.5°  | 158.1 | 128.4  | 126.6 | 112.2 | 104.2 |
| 75°    | 129.3 | 108.6  | 107.7 | 97.9  | 84.4  |
| 77.5°  | 101.5 | 86.2   | 88.0  | 79.0  | 61.9  |
| 80°    | 72.7  | 62.8   | 64.6  | 56.6  | 46.7  |
| 82.5°  | 48.5  | 41.3   | 43.1  | 35.9  | 31.4  |
| 85°    | 27.0  | 23.4   | 24.3  | 18.8  | 14.4  |
| 87.5°  | 12.6  | 10.8   | 10.8  | 7.1   | 4.5   |
| 90°    | 18.2  | 11.6   | 10.8  | 7.4   | 4.1   |
| 92.5°  | 112.6 | 80.1   | 73.0  | 44.8  | 16.6  |
| 95°    | 277.1 | 156.0  | 143.1 | 91.5  | 39.8  |
| 97.5°  | 373.3 | 171.4  | 160.0 | 114.4 | 68.9  |
| 100°   | 408.3 | 184.3  | 174.0 | 132.6 | 91.3  |
| 102.5° | 424.4 | 197.2  | 187.5 | 149.0 | 110.4 |
| 105°   | 436.2 | 216.3  | 208.2 | 175.5 | 142.8 |
| 107.5° | 438.5 | 244.5  | 236.9 | 206.5 | 176.0 |
| 110°   | 435.1 | 260.2  | 253.3 | 225.9 | 198.4 |



TEST NUMBER: P934639

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 435.2 | 279.3  | 272.8 | 246.5 | 220.4 |
| 115°   | 439.3 | 308.0  | 301.9 | 277.8 | 253.6 |
| 117.5° | 447.5 | 335.8  | 330.3 | 308.3 | 286.4 |
| 120°   | 454.1 | 352.0  | 346.8 | 326.2 | 305.5 |
| 122.5° | 463.6 | 371.1  | 365.9 | 345.0 | 324.2 |
| 125°   | 476.5 | 395.5  | 390.8 | 371.8 | 352.8 |
| 127.5° | 489.3 | 419.2  | 414.4 | 395.3 | 376.1 |
| 130°   | 498.8 | 435.0  | 429.8 | 409.2 | 388.5 |
| 132.5° | 506.4 | 447.8  | 442.7 | 422.0 | 401.3 |
| 135°   | 514.7 | 462.8  | 458.1 | 439.3 | 420.4 |
| 137.5° | 527.1 | 481.8  | 477.2 | 458.5 | 440.0 |
| 140°   | 534.8 | 494.8  | 490.5 | 473.3 | 456.1 |
| 142.5° | 541.1 | 504.3  | 500.4 | 484.5 | 468.6 |
| 145°   | 549.4 | 518.8  | 515.3 | 501.6 | 487.7 |
| 147.5° | 561.5 | 537.1  | 533.7 | 520.2 | 506.7 |
| 150°   | 568.0 | 546.6  | 543.6 | 531.4 | 519.2 |
| 152.5° | 572.1 | 552.9  | 550.6 | 541.4 | 532.1 |
| 155°   | 581.2 | 566.5  | 564.8 | 558.0 | 551.2 |
| 157.5° | 590.4 | 580.3  | 578.6 | 572.0 | 565.3 |
| 160°   | 594.5 | 586.5  | 585.2 | 580.0 | 574.8 |
| 162.5° | 598.9 | 593.1  | 592.2 | 588.3 | 584.4 |
| 165°   | 605.3 | 602.7  | 601.8 | 598.3 | 594.8 |
| 167.5° | 610.3 | 608.1  | 607.6 | 606.0 | 604.3 |
| 170°   | 614.4 | 614.3  | 613.9 | 612.2 | 610.6 |
| 172.5° | 614.7 | 614.7  | 614.6 | 614.2 | 613.9 |
| 175°   | 617.2 | 618.4  | 618.4 | 618.4 | 618.4 |
| 177.5° | 617.4 | 618.4  | 618.4 | 618.4 | 618.4 |
| 180°   | 618.4 | 618.4  | 618.4 | 618.4 | 618.4 |



TEST NUMBER: P934639  
 CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3500K

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 9.74             | 10.50 | 10.79 | 11.56 | 12.99 | 12.56          | 13.32 | 13.61 | 14.38 | 15.81 |
|                 | 3H   | 10.21            | 10.89 | 11.27 | 11.96 | 13.41 | 13.90          | 14.58 | 14.96 | 15.65 | 17.10 |
|                 | 4H   | 10.39            | 11.04 | 11.47 | 12.11 | 13.57 | 14.34          | 14.98 | 15.41 | 16.05 | 17.51 |
|                 | 6H   | 10.51            | 11.10 | 11.59 | 12.17 | 13.64 | 14.61          | 15.21 | 15.70 | 16.28 | 17.75 |
|                 | 8H   | 10.50            | 11.07 | 11.59 | 12.16 | 13.62 | 14.68          | 15.25 | 15.77 | 16.34 | 17.80 |
|                 | 12H  | 10.47            | 11.01 | 11.56 | 12.09 | 13.58 | 14.72          | 15.26 | 15.81 | 16.34 | 17.83 |
| 4H              | 2H   | 10.76            | 11.40 | 11.84 | 12.47 | 13.93 | 12.96          | 13.61 | 14.04 | 14.67 | 16.13 |
|                 | 3H   | 11.77            | 12.31 | 12.86 | 13.41 | 14.88 | 14.45          | 14.99 | 15.54 | 16.09 | 17.56 |
|                 | 4H   | 12.05            | 12.54 | 13.14 | 13.63 | 15.12 | 14.98          | 15.47 | 16.07 | 16.56 | 18.05 |
|                 | 6H   | 12.16            | 12.59 | 13.27 | 13.70 | 15.18 | 15.33          | 15.76 | 16.44 | 16.87 | 18.35 |
|                 | 8H   | 12.17            | 12.56 | 13.27 | 13.67 | 15.17 | 15.44          | 15.83 | 16.54 | 16.93 | 18.44 |
|                 | 12H  | 12.13            | 12.49 | 13.25 | 13.60 | 15.11 | 15.49          | 15.85 | 16.61 | 16.96 | 18.47 |
| 8H              | 4H   | 12.49            | 12.89 | 13.59 | 13.99 | 15.49 | 15.09          | 15.49 | 16.19 | 16.59 | 18.09 |
|                 | 6H   | 12.75            | 13.08 | 13.87 | 14.22 | 15.72 | 15.52          | 15.85 | 16.65 | 16.99 | 18.49 |
|                 | 8H   | 12.79            | 13.08 | 13.92 | 14.20 | 15.72 | 15.67          | 15.96 | 16.80 | 17.08 | 18.60 |
|                 | 12H  | 12.77            | 13.02 | 13.90 | 14.14 | 15.70 | 15.77          | 16.02 | 16.90 | 17.14 | 18.69 |
| 12H             | 4H   | 12.49            | 12.85 | 13.61 | 13.96 | 15.47 | 15.05          | 15.41 | 16.17 | 16.53 | 18.03 |
|                 | 6H   | 12.81            | 13.09 | 13.94 | 14.22 | 15.74 | 15.52          | 15.81 | 16.65 | 16.93 | 18.45 |
|                 | 8H   | 12.87            | 13.12 | 14.00 | 14.24 | 15.80 | 15.68          | 15.93 | 16.81 | 17.05 | 18.60 |