

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: P934275

Luminaire Tested: SQ4-FA-050U-050D-940-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

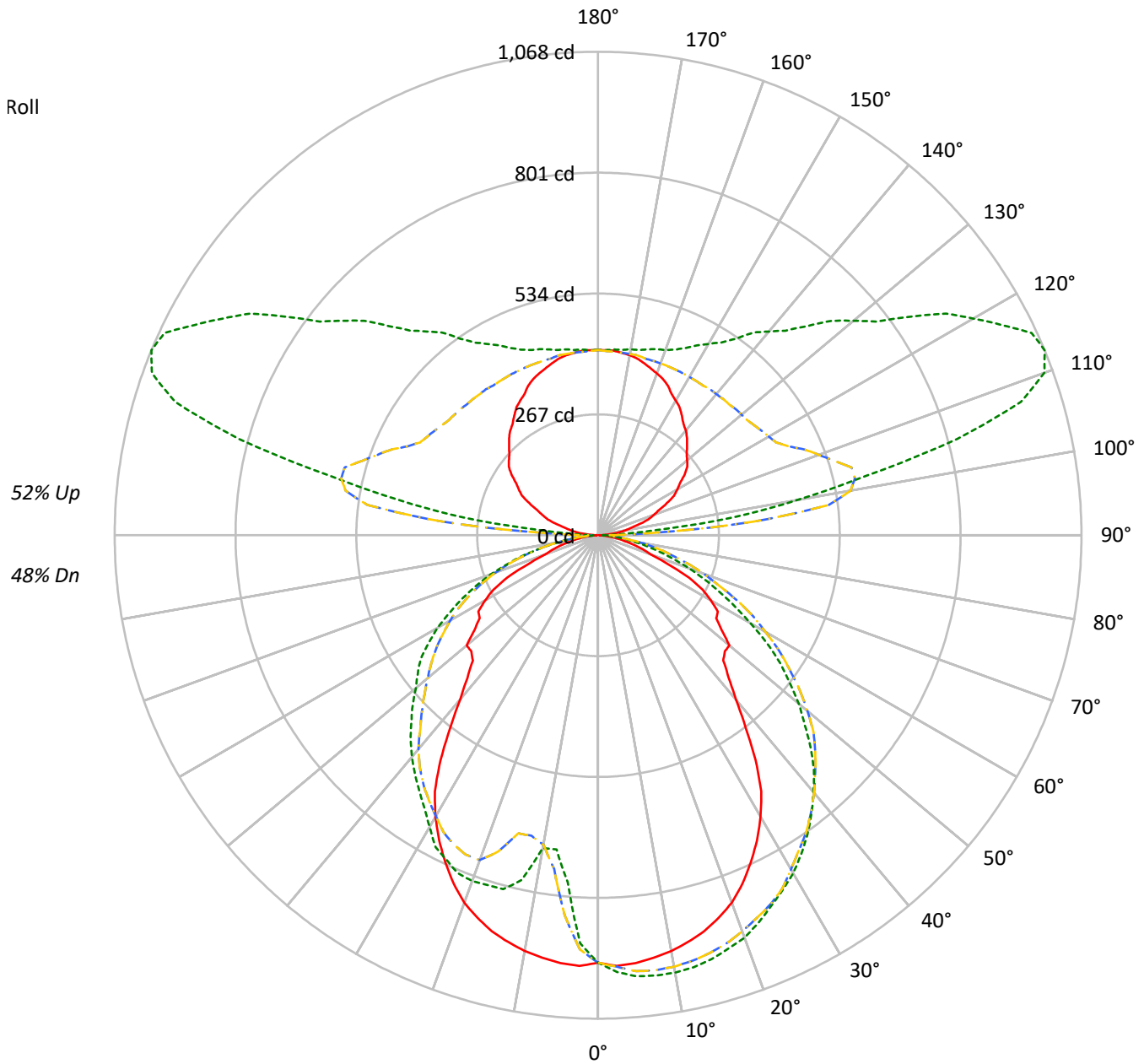
Test Method: LM-79-2019  
Report Number: P934275  
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5101.6 lumens  
Efficiency: N/A  
Efficacy: 119.8 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: General Diffuse  
  
Input Watts (W): 42.6  
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

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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 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 56 | 48 | 47 | 46 | 41 | 41 | 41 | 41 |
| 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 | 55 | 56 | 51 | 47 | 46 | 43 | 40 | 38 | 35 | 33 | 29 | 29 | 29 | 29 |
| 4   | 74  | 63  | 55  | 49  | 68 | 58 | 52 | 46 | 50 | 44 | 40 | 41 | 37 | 34 | 33 | 31 | 28 | 25 | 25 | 25 | 25 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 | 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  | 34  | 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 | 16 | 13 | 13 | 13 | 13 |
| 10  | 47  | 34  | 27  | 22  | 43 | 32 | 26 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 20 | 16 | 14 | 12 | 12 | 12 | 12 |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 5841 | 5841 | 5841 | 5841 |
| 5°  | 5883 | 5896 | 5883 | 4636 |
| 10° | 5841 | 5808 | 5841 | 4153 |
| 15° | 5775 | 5683 | 5775 | 4745 |
| 20° | 5652 | 5533 | 5652 | 4755 |
| 25° | 5403 | 5316 | 5403 | 4654 |
| 30° | 5081 | 5136 | 5081 | 4433 |
| 35° | 4528 | 4907 | 4528 | 4189 |
| 40° | 3771 | 4639 | 3771 | 4006 |
| 45° | 3367 | 4323 | 3367 | 3795 |
| 50° | 3574 | 3949 | 3574 | 3583 |
| 55° | 3359 | 3544 | 3359 | 3460 |
| 60° | 3458 | 3010 | 3458 | 3169 |
| 65° | 3132 | 2488 | 3132 | 2781 |
| 70° | 2162 | 1983 | 2162 | 2331 |
| 75° | 1890 | 1465 | 1890 | 1755 |
| 80° | 1510 | 969  | 1510 | 1056 |
| 85° | 853  | 513  | 853  | 437  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5164 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.2   | 1.7       |
| 10°-20°   | 242.0  | 4.7       |
| 20°-30°   | 374.1  | 7.3       |
| 30°-40°   | 446.6  | 8.8       |
| 40°-50°   | 449.2  | 8.8       |
| 50°-60°   | 390.9  | 7.7       |
| 60°-70°   | 277.1  | 5.4       |
| 70°-80°   | 146.6  | 2.9       |
| 80°-90°   | 38.1   | 0.7       |
| 90°-100°  | 199.4  | 3.9       |
| 100°-110° | 524.2  | 10.3      |
| 110°-120° | 543.6  | 10.7      |
| 120°-130° | 436.0  | 8.5       |
| 130°-140° | 342.1  | 6.7       |
| 140°-150° | 262.6  | 5.1       |
| 150°-160° | 189.1  | 3.7       |
| 160°-170° | 115.7  | 2.3       |
| 170°-180° | 39.1   | 0.8       |
| 0°-30°    | 701.3  | 13.7      |
| 0°-40°    | 1147.9 | 22.5      |
| 0°-60°    | 1988.0 | 39.0      |
| 0°-90°    | 2449.8 | 48.0      |
| 90°-120°  | 1267.2 | 24.8      |
| 90°-150°  | 2307.9 | 45.2      |
| 90°-180°  | 2652.0 | 52.0      |
| 0°-180°   | 5101.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90°  | 180° | 270° | 360° | Flux |
|------|-----|------|------|------|------|------|
| 0°   | 944 | 944  | 944  | 944  | 944  |      |
| 5°   | 949 | 978  | 949  | 769  | 949  | 90   |
| 15°  | 906 | 969  | 906  | 809  | 906  | 255  |
| 25°  | 798 | 904  | 798  | 792  | 798  | 366  |
| 35°  | 607 | 807  | 607  | 689  | 607  | 375  |
| 45°  | 391 | 665  | 391  | 583  | 391  | 313  |
| 55°  | 319 | 490  | 319  | 479  | 319  | 293  |
| 65°  | 222 | 296  | 222  | 330  | 222  | 212  |
| 75°  | 84  | 140  | 84   | 168  | 84   | 88   |
| 85°  | 14  | 36   | 14   | 30   | 14   | 19   |
| 90°  | 3   | 10   | 3    | 10   | 3    | 3    |
| 95°  | 26  | 120  | 26   | 120  | 26   | 29   |
| 105° | 94  | 821  | 94   | 821  | 94   | 100  |
| 115° | 168 | 1057 | 168  | 1057 | 168  | 166  |
| 125° | 233 | 842  | 233  | 842  | 233  | 207  |
| 135° | 278 | 653  | 278  | 653  | 278  | 215  |
| 145° | 323 | 530  | 323  | 530  | 323  | 202  |
| 155° | 365 | 456  | 365  | 456  | 365  | 168  |
| 165° | 393 | 425  | 393  | 425  | 393  | 111  |
| 175° | 409 | 412  | 409  | 412  | 409  | 39   |
| 180° | 409 | 409  | 409  | 409  | 409  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 |
| 2.5°   | 952.3 | 952.3 | 957.6 | 959.4 | 959.4 | 956.7 | 954.1 | 956.7 | 964.8 | 967.5 | 966.6 |
| 5°     | 948.7 | 955.8 | 965.7 | 967.5 | 969.3 | 968.4 | 966.6 | 968.4 | 977.2 | 979.1 | 980.0 |
| 7.5°   | 941.5 | 955.0 | 967.5 | 970.1 | 972.8 | 970.1 | 969.3 | 971.0 | 980.0 | 981.8 | 981.8 |
| 10°    | 932.6 | 951.4 | 965.7 | 967.5 | 970.1 | 967.5 | 967.5 | 971.0 | 980.0 | 981.8 | 982.7 |
| 12.5°  | 920.1 | 946.0 | 959.4 | 961.2 | 964.8 | 963.9 | 962.9 | 966.6 | 975.5 | 977.2 | 977.2 |
| 15°    | 905.8 | 936.2 | 948.7 | 950.5 | 956.7 | 955.0 | 955.0 | 958.5 | 968.4 | 971.0 | 970.1 |
| 17.5°  | 886.1 | 923.7 | 938.0 | 940.7 | 945.1 | 944.2 | 945.1 | 948.7 | 957.6 | 959.4 | 960.3 |
| 20°    | 863.8 | 906.7 | 923.7 | 926.4 | 930.8 | 930.8 | 930.8 | 935.3 | 944.2 | 947.8 | 947.8 |
| 22.5°  | 833.5 | 888.8 | 906.7 | 908.5 | 913.8 | 913.8 | 915.6 | 921.9 | 929.9 | 930.8 | 930.8 |
| 25°    | 797.7 | 869.2 | 884.4 | 889.8 | 895.1 | 897.8 | 900.4 | 904.1 | 906.7 | 905.8 | 906.7 |
| 27.5°  | 760.2 | 844.1 | 863.8 | 867.4 | 874.6 | 877.3 | 880.8 | 881.7 | 882.6 | 885.2 | 883.5 |
| 30°    | 718.2 | 809.3 | 838.8 | 842.4 | 854.0 | 855.8 | 852.2 | 854.0 | 858.4 | 860.3 | 862.1 |
| 32.5°  | 670.9 | 757.6 | 812.9 | 821.0 | 831.7 | 826.3 | 825.4 | 828.1 | 835.3 | 835.3 | 837.0 |
| 35°    | 606.6 | 717.3 | 788.8 | 795.9 | 804.0 | 797.7 | 801.3 | 802.2 | 806.7 | 809.3 | 808.4 |
| 37.5°  | 536.0 | 682.5 | 763.8 | 769.1 | 775.4 | 767.3 | 772.7 | 775.4 | 779.0 | 777.2 | 777.2 |
| 40°    | 473.5 | 628.0 | 734.3 | 737.8 | 743.3 | 737.0 | 742.4 | 744.1 | 745.9 | 744.1 | 743.3 |
| 42.5°  | 427.0 | 568.1 | 703.0 | 707.5 | 703.9 | 708.4 | 710.2 | 713.8 | 711.1 | 707.5 | 707.5 |
| 45°    | 391.3 | 552.1 | 669.1 | 674.4 | 669.1 | 676.2 | 678.9 | 678.9 | 670.9 | 669.1 | 668.2 |
| 47.5°  | 379.6 | 519.9 | 635.2 | 635.2 | 632.4 | 641.4 | 645.8 | 639.6 | 631.5 | 628.9 | 628.9 |
| 50°    | 378.7 | 484.1 | 588.7 | 585.1 | 597.6 | 608.4 | 603.8 | 597.6 | 591.4 | 581.6 | 581.6 |
| 52.5°  | 343.9 | 440.4 | 528.8 | 542.2 | 561.9 | 568.1 | 561.0 | 554.7 | 544.0 | 539.5 | 536.0 |
| 55°    | 318.9 | 394.8 | 474.4 | 501.2 | 521.7 | 529.7 | 516.4 | 510.1 | 494.0 | 491.3 | 489.6 |
| 57.5°  | 313.6 | 328.7 | 424.3 | 458.3 | 483.2 | 482.4 | 474.4 | 462.7 | 449.3 | 446.7 | 445.8 |
| 60°    | 287.6 | 237.6 | 370.7 | 411.0 | 436.8 | 434.1 | 427.0 | 416.3 | 403.8 | 402.0 | 400.2 |
| 62.5°  | 260.8 | 172.4 | 310.0 | 355.6 | 392.1 | 391.3 | 385.0 | 369.0 | 360.0 | 355.6 | 352.0 |
| 65°    | 221.6 | 144.7 | 220.7 | 295.7 | 348.4 | 350.1 | 336.8 | 325.2 | 315.3 | 310.0 | 309.1 |
| 67.5°  | 168.8 | 117.9 | 149.2 | 246.6 | 306.4 | 304.6 | 287.6 | 282.3 | 269.8 | 267.1 | 261.8 |
| 70°    | 125.0 | 78.6  | 103.6 | 200.1 | 265.3 | 260.8 | 247.5 | 241.2 | 229.5 | 223.3 | 219.8 |
| 72.5°  | 103.6 | 63.4  | 75.9  | 155.4 | 223.3 | 218.0 | 206.4 | 199.2 | 189.4 | 184.0 | 180.4 |
| 75°    | 84.0  | 67.0  | 58.1  | 115.3 | 181.3 | 177.8 | 167.0 | 159.9 | 151.8 | 144.7 | 145.6 |
| 77.5°  | 61.6  | 62.5  | 46.4  | 84.9  | 143.9 | 138.4 | 132.2 | 123.3 | 119.7 | 112.6 | 112.6 |
| 80°    | 46.4  | 49.1  | 34.8  | 58.1  | 103.6 | 103.6 | 98.3  | 92.0  | 85.8  | 82.2  | 82.2  |
| 82.5°  | 31.3  | 31.3  | 25.9  | 36.6  | 70.6  | 67.9  | 64.3  | 62.5  | 59.0  | 57.2  | 57.2  |
| 85°    | 14.3  | 17.8  | 16.1  | 22.3  | 38.5  | 40.2  | 40.2  | 38.5  | 37.6  | 35.7  | 36.6  |
| 87.5°  | 4.4   | 8.1   | 9.9   | 12.5  | 19.6  | 20.5  | 21.4  | 21.4  | 21.4  | 22.3  | 22.3  |
| 90°    | 2.8   | 5.0   | 7.2   | 7.7   | 12.1  | 17.9  | 20.9  | 18.6  | 13.9  | 10.4  | 10.4  |
| 92.5°  | 11.0  | 29.7  | 48.3  | 53.0  | 74.5  | 103.2 | 117.5 | 102.9 | 73.9  | 52.1  | 50.1  |
| 95°    | 26.4  | 60.5  | 94.7  | 103.2 | 183.3 | 290.1 | 343.5 | 306.5 | 232.6 | 177.1 | 170.8 |
| 97.5°  | 45.6  | 75.7  | 105.8 | 113.4 | 247.0 | 425.0 | 514.0 | 490.6 | 443.8 | 408.7 | 396.8 |
| 100°   | 60.4  | 87.7  | 115.1 | 121.9 | 270.0 | 467.6 | 566.4 | 568.1 | 571.5 | 574.1 | 559.9 |
| 102.5° | 73.0  | 98.6  | 124.1 | 130.4 | 280.7 | 481.0 | 581.2 | 610.9 | 670.5 | 715.2 | 703.0 |
| 105°   | 94.5  | 116.1 | 137.6 | 143.1 | 288.5 | 482.5 | 579.5 | 646.3 | 779.8 | 879.9 | 873.3 |
| 107.5° | 116.4 | 136.6 | 156.6 | 161.7 | 290.0 | 461.0 | 546.6 | 639.6 | 825.8 | 965.5 | 967.1 |
| 110°   | 131.2 | 149.4 | 167.6 | 172.1 | 287.8 | 442.0 | 519.1 | 623.2 | 831.4 | 987.5 | 994.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 145.8 | 163.1 | 180.4 | 184.8 | 287.9 | 425.4 | 494.2 | 600.7 | 813.8 | 973.5 | 984.0 |
| 115°   | 167.7 | 183.7 | 199.7 | 203.7 | 290.6 | 406.3 | 464.2 | 566.9 | 772.1 | 926.0 | 940.6 |
| 117.5° | 189.4 | 204.0 | 218.4 | 222.1 | 296.0 | 394.4 | 443.6 | 536.3 | 721.5 | 860.4 | 876.5 |
| 120°   | 202.0 | 215.7 | 229.4 | 232.8 | 300.3 | 390.4 | 435.4 | 520.0 | 689.3 | 816.2 | 831.9 |
| 122.5° | 214.5 | 228.2 | 242.0 | 245.4 | 306.6 | 388.2 | 429.1 | 505.3 | 657.7 | 772.0 | 787.5 |
| 125°   | 233.4 | 245.9 | 258.5 | 261.6 | 315.2 | 386.5 | 422.2 | 487.0 | 616.4 | 713.5 | 727.7 |
| 127.5° | 248.7 | 261.4 | 274.1 | 277.3 | 323.7 | 385.6 | 416.5 | 472.1 | 583.1 | 666.5 | 678.5 |
| 130°   | 257.0 | 270.7 | 284.3 | 287.7 | 329.9 | 386.1 | 414.3 | 463.7 | 562.7 | 637.0 | 648.1 |
| 132.5° | 265.5 | 279.2 | 292.9 | 296.2 | 335.0 | 386.5 | 412.4 | 456.7 | 545.2 | 611.7 | 621.6 |
| 135°   | 278.1 | 290.6 | 303.0 | 306.1 | 340.5 | 386.2 | 409.1 | 446.2 | 520.4 | 576.0 | 584.6 |
| 137.5° | 291.0 | 303.3 | 315.6 | 318.7 | 348.6 | 388.5 | 408.5 | 439.8 | 502.5 | 549.6 | 556.6 |
| 140°   | 301.7 | 313.1 | 324.4 | 327.2 | 353.7 | 388.9 | 406.6 | 433.7 | 487.9 | 528.4 | 535.0 |
| 142.5° | 309.9 | 320.4 | 330.9 | 333.5 | 357.9 | 390.4 | 406.6 | 430.4 | 477.9 | 513.6 | 519.3 |
| 145°   | 322.6 | 331.8 | 340.9 | 343.2 | 363.5 | 390.4 | 403.9 | 423.3 | 462.2 | 491.4 | 495.7 |
| 147.5° | 335.2 | 344.1 | 353.1 | 355.3 | 371.5 | 393.0 | 403.9 | 419.1 | 449.8 | 472.8 | 476.3 |
| 150°   | 343.5 | 351.6 | 359.6 | 361.6 | 375.7 | 394.4 | 403.9 | 416.8 | 442.7 | 462.0 | 464.9 |
| 152.5° | 351.9 | 358.0 | 364.2 | 365.7 | 378.4 | 395.3 | 403.9 | 414.9 | 437.0 | 453.5 | 455.6 |
| 155°   | 364.6 | 369.1 | 373.6 | 374.7 | 384.4 | 397.4 | 403.9 | 412.7 | 430.2 | 443.4 | 444.8 |
| 157.5° | 373.9 | 378.3 | 382.7 | 383.8 | 390.5 | 399.4 | 403.9 | 410.7 | 424.4 | 434.6 | 435.6 |
| 160°   | 380.2 | 383.6 | 387.0 | 387.9 | 393.2 | 400.3 | 403.9 | 409.7 | 421.4 | 430.2 | 430.8 |
| 162.5° | 386.5 | 389.1 | 391.7 | 392.3 | 396.1 | 401.3 | 403.9 | 408.8 | 418.7 | 426.1 | 426.6 |
| 165°   | 393.4 | 395.7 | 398.0 | 398.6 | 400.4 | 402.7 | 403.9 | 407.4 | 414.4 | 419.8 | 420.4 |
| 167.5° | 399.7 | 400.8 | 401.9 | 402.2 | 403.7 | 405.6 | 406.6 | 408.9 | 413.5 | 417.0 | 417.3 |
| 170°   | 403.9 | 404.9 | 406.1 | 406.3 | 406.4 | 406.5 | 406.6 | 408.9 | 413.5 | 417.0 | 417.0 |
| 172.5° | 406.1 | 406.3 | 406.5 | 406.6 | 406.6 | 406.6 | 406.6 | 408.4 | 412.0 | 414.8 | 414.6 |
| 175°   | 409.1 | 409.1 | 409.1 | 409.1 | 408.3 | 407.1 | 406.6 | 407.8 | 410.1 | 411.8 | 411.8 |
| 177.5° | 409.1 | 409.1 | 409.1 | 409.1 | 408.5 | 407.6 | 407.1 | 408.0 | 409.9 | 411.2 | 411.0 |
| 180°   | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 |



TEST NUMBER: P934275

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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|-------|--------|
| 0°     | 944.2  | 944.2  | 944.2  | 944.2 | 944.2  | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 | 944.2  |
| 2.5°   | 968.4  | 965.7  | 968.4  | 966.6 | 967.5  | 964.8 | 956.7 | 954.1 | 956.7 | 959.4 | 959.4  |
| 5°     | 980.0  | 978.1  | 980.0  | 980.0 | 979.1  | 977.2 | 968.4 | 966.6 | 968.4 | 969.3 | 967.5  |
| 7.5°   | 983.5  | 980.9  | 983.5  | 981.8 | 981.8  | 980.0 | 971.0 | 969.3 | 970.1 | 972.8 | 970.1  |
| 10°    | 983.5  | 980.9  | 983.5  | 982.7 | 981.8  | 980.0 | 971.0 | 967.5 | 967.5 | 970.1 | 967.5  |
| 12.5°  | 979.1  | 977.2  | 979.1  | 977.2 | 977.2  | 975.5 | 966.6 | 962.9 | 963.9 | 964.8 | 961.2  |
| 15°    | 971.9  | 969.3  | 971.9  | 970.1 | 971.0  | 968.4 | 958.5 | 955.0 | 955.0 | 956.7 | 950.5  |
| 17.5°  | 961.2  | 957.6  | 961.2  | 960.3 | 959.4  | 957.6 | 948.7 | 945.1 | 944.2 | 945.1 | 940.7  |
| 20°    | 948.7  | 946.0  | 948.7  | 947.8 | 947.8  | 944.2 | 935.3 | 930.8 | 930.8 | 930.8 | 926.4  |
| 22.5°  | 929.0  | 926.4  | 929.0  | 930.8 | 930.8  | 929.9 | 921.9 | 915.6 | 913.8 | 913.8 | 908.5  |
| 25°    | 906.7  | 904.1  | 906.7  | 906.7 | 905.8  | 906.7 | 904.1 | 900.4 | 897.8 | 895.1 | 889.8  |
| 27.5°  | 885.2  | 883.5  | 885.2  | 883.5 | 885.2  | 882.6 | 881.7 | 880.8 | 877.3 | 874.6 | 867.4  |
| 30°    | 863.8  | 862.1  | 863.8  | 862.1 | 860.3  | 858.4 | 854.0 | 852.2 | 855.8 | 854.0 | 842.4  |
| 32.5°  | 837.0  | 835.3  | 837.0  | 837.0 | 835.3  | 835.3 | 828.1 | 825.4 | 826.3 | 831.7 | 821.0  |
| 35°    | 809.3  | 806.7  | 809.3  | 808.4 | 809.3  | 806.7 | 802.2 | 801.3 | 797.7 | 804.0 | 795.9  |
| 37.5°  | 777.2  | 774.5  | 777.2  | 777.2 | 777.2  | 779.0 | 775.4 | 772.7 | 767.3 | 775.4 | 769.1  |
| 40°    | 744.1  | 740.6  | 744.1  | 743.3 | 744.1  | 745.9 | 744.1 | 742.4 | 737.0 | 743.3 | 737.8  |
| 42.5°  | 706.6  | 705.7  | 706.6  | 707.5 | 707.5  | 711.1 | 713.8 | 710.2 | 708.4 | 703.9 | 707.5  |
| 45°    | 666.4  | 664.6  | 666.4  | 668.2 | 669.1  | 670.9 | 678.9 | 678.9 | 676.2 | 669.1 | 674.4  |
| 47.5°  | 623.6  | 619.0  | 623.6  | 628.9 | 628.9  | 631.5 | 639.6 | 645.8 | 641.4 | 632.4 | 635.2  |
| 50°    | 578.0  | 578.9  | 578.0  | 581.6 | 581.6  | 591.4 | 597.6 | 603.8 | 608.4 | 597.6 | 585.1  |
| 52.5°  | 533.3  | 532.4  | 533.3  | 536.0 | 539.5  | 544.0 | 554.7 | 561.0 | 568.1 | 561.9 | 542.2  |
| 55°    | 488.7  | 490.4  | 488.7  | 489.6 | 491.3  | 494.0 | 510.1 | 516.4 | 529.7 | 521.7 | 501.2  |
| 57.5°  | 444.0  | 441.3  | 444.0  | 445.8 | 446.7  | 449.3 | 462.7 | 474.4 | 482.4 | 483.2 | 458.3  |
| 60°    | 392.1  | 388.6  | 392.1  | 400.2 | 402.0  | 403.8 | 416.3 | 427.0 | 434.1 | 436.8 | 411.0  |
| 62.5°  | 346.6  | 340.4  | 346.6  | 352.0 | 355.6  | 360.0 | 369.0 | 385.0 | 391.3 | 392.1 | 355.6  |
| 65°    | 298.4  | 295.7  | 298.4  | 309.1 | 310.0  | 315.3 | 325.2 | 336.8 | 350.1 | 348.4 | 295.7  |
| 67.5°  | 254.6  | 254.6  | 254.6  | 261.8 | 267.1  | 269.8 | 282.3 | 287.6 | 304.6 | 306.4 | 246.6  |
| 70°    | 214.4  | 213.5  | 214.4  | 219.8 | 223.3  | 229.5 | 241.2 | 247.5 | 260.8 | 265.3 | 200.1  |
| 72.5°  | 176.0  | 175.1  | 176.0  | 180.4 | 184.0  | 189.4 | 199.2 | 206.4 | 218.0 | 223.3 | 155.4  |
| 75°    | 142.1  | 140.2  | 142.1  | 145.6 | 144.7  | 151.8 | 159.9 | 167.0 | 177.8 | 181.3 | 115.3  |
| 77.5°  | 109.0  | 109.0  | 109.0  | 112.6 | 112.6  | 119.7 | 123.3 | 132.2 | 138.4 | 143.9 | 84.9   |
| 80°    | 81.3   | 80.4   | 81.3   | 82.2  | 82.2   | 85.8  | 92.0  | 98.3  | 103.6 | 103.6 | 58.1   |
| 82.5°  | 57.2   | 55.4   | 57.2   | 57.2  | 57.2   | 59.0  | 62.5  | 64.3  | 67.9  | 70.6  | 36.6   |
| 85°    | 35.7   | 35.7   | 35.7   | 36.6  | 35.7   | 37.6  | 38.5  | 40.2  | 40.2  | 38.5  | 22.3   |
| 87.5°  | 23.3   | 22.3   | 23.3   | 22.3  | 22.3   | 21.4  | 21.4  | 21.4  | 20.5  | 19.6  | 12.5   |
| 90°    | 10.4   | 10.4   | 10.4   | 10.4  | 10.4   | 13.9  | 18.6  | 20.9  | 17.9  | 12.1  | 7.7    |
| 92.5°  | 41.7   | 33.5   | 41.7   | 50.1  | 52.1   | 73.9  | 102.9 | 117.5 | 103.2 | 74.5  | 53.0   |
| 95°    | 145.6  | 120.5  | 145.6  | 170.8 | 177.1  | 232.6 | 306.5 | 343.5 | 290.1 | 183.3 | 103.2  |
| 97.5°  | 349.0  | 301.2  | 349.0  | 396.8 | 408.7  | 443.8 | 490.6 | 514.0 | 425.0 | 247.0 | 113.4  |
| 100°   | 502.9  | 445.9  | 502.9  | 559.9 | 574.1  | 571.5 | 568.1 | 566.4 | 467.6 | 270.0 | 121.9  |
| 102.5° | 654.2  | 605.3  | 654.2  | 703.0 | 715.2  | 670.5 | 610.9 | 581.2 | 481.0 | 280.7 | 130.4  |
| 105°   | 847.2  | 820.9  | 847.2  | 873.3 | 879.9  | 779.8 | 646.3 | 579.5 | 482.5 | 288.5 | 143.1  |
| 107.5° | 973.4  | 979.8  | 973.4  | 967.1 | 965.5  | 825.8 | 639.6 | 546.6 | 461.0 | 290.0 | 161.7  |
| 110°   | 1021.6 | 1049.0 | 1021.6 | 994.4 | 987.5  | 831.4 | 623.2 | 519.1 | 442.0 | 287.8 | 172.1  |





TEST NUMBER: P934275

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 1026.0 | 1067.9 | 1026.0 | 984.0 | 973.5  | 813.8 | 600.7 | 494.2 | 425.4 | 287.9 | 184.8  |
| 115°   | 998.7  | 1057.0 | 998.7  | 940.6 | 926.0  | 772.1 | 566.9 | 464.2 | 406.3 | 290.6 | 203.7  |
| 117.5° | 941.1  | 1005.7 | 941.1  | 876.5 | 860.4  | 721.5 | 536.3 | 443.6 | 394.4 | 296.0 | 222.1  |
| 120°   | 894.6  | 957.4  | 894.6  | 831.9 | 816.2  | 689.3 | 520.0 | 435.4 | 390.4 | 300.3 | 232.8  |
| 122.5° | 849.4  | 911.2  | 849.4  | 787.5 | 772.0  | 657.7 | 505.3 | 429.1 | 388.2 | 306.6 | 245.4  |
| 125°   | 784.7  | 841.7  | 784.7  | 727.7 | 713.5  | 616.4 | 487.0 | 422.2 | 386.5 | 315.2 | 261.6  |
| 127.5° | 726.7  | 774.8  | 726.7  | 678.5 | 666.5  | 583.1 | 472.1 | 416.5 | 385.6 | 323.7 | 277.3  |
| 130°   | 692.5  | 736.9  | 692.5  | 648.1 | 637.0  | 562.7 | 463.7 | 414.3 | 386.1 | 329.9 | 287.7  |
| 132.5° | 661.4  | 701.2  | 661.4  | 621.6 | 611.7  | 545.2 | 456.7 | 412.4 | 386.5 | 335.0 | 296.2  |
| 135°   | 618.8  | 653.1  | 618.8  | 584.6 | 576.0  | 520.4 | 446.2 | 409.1 | 386.2 | 340.5 | 306.1  |
| 137.5° | 584.7  | 612.8  | 584.7  | 556.6 | 549.6  | 502.5 | 439.8 | 408.5 | 388.5 | 348.6 | 318.7  |
| 140°   | 561.2  | 587.5  | 561.2  | 535.0 | 528.4  | 487.9 | 433.7 | 406.6 | 388.9 | 353.7 | 327.2  |
| 142.5° | 541.9  | 564.4  | 541.9  | 519.3 | 513.6  | 477.9 | 430.4 | 406.6 | 390.4 | 357.9 | 333.5  |
| 145°   | 512.8  | 529.9  | 512.8  | 495.7 | 491.4  | 462.2 | 423.3 | 403.9 | 390.4 | 363.5 | 343.2  |
| 147.5° | 490.4  | 504.6  | 490.4  | 476.3 | 472.8  | 449.8 | 419.1 | 403.9 | 393.0 | 371.5 | 355.3  |
| 150°   | 476.4  | 487.9  | 476.4  | 464.9 | 462.0  | 442.7 | 416.8 | 403.9 | 394.4 | 375.7 | 361.6  |
| 152.5° | 464.3  | 473.0  | 464.3  | 455.6 | 453.5  | 437.0 | 414.9 | 403.9 | 395.3 | 378.4 | 365.7  |
| 155°   | 450.6  | 456.3  | 450.6  | 444.8 | 443.4  | 430.2 | 412.7 | 403.9 | 397.4 | 384.4 | 374.7  |
| 157.5° | 439.6  | 443.6  | 439.6  | 435.6 | 434.6  | 424.4 | 410.7 | 403.9 | 399.4 | 390.5 | 383.8  |
| 160°   | 433.1  | 435.4  | 433.1  | 430.8 | 430.2  | 421.4 | 409.7 | 403.9 | 400.3 | 393.2 | 387.9  |
| 162.5° | 428.8  | 431.0  | 428.8  | 426.6 | 426.1  | 418.7 | 408.8 | 403.9 | 401.3 | 396.1 | 392.3  |
| 165°   | 422.7  | 425.0  | 422.7  | 420.4 | 419.8  | 414.4 | 407.4 | 403.9 | 402.7 | 400.4 | 398.6  |
| 167.5° | 418.2  | 419.2  | 418.2  | 417.3 | 417.0  | 413.5 | 408.9 | 406.6 | 405.6 | 403.7 | 402.2  |
| 170°   | 417.0  | 417.0  | 417.0  | 417.0 | 417.0  | 413.5 | 408.9 | 406.6 | 406.5 | 406.4 | 406.3  |
| 172.5° | 413.7  | 412.9  | 413.7  | 414.6 | 414.8  | 412.0 | 408.4 | 406.6 | 406.6 | 406.6 | 406.6  |
| 175°   | 411.8  | 411.8  | 411.8  | 411.8 | 411.8  | 410.1 | 407.8 | 406.6 | 407.1 | 408.3 | 409.1  |
| 177.5° | 410.1  | 409.1  | 410.1  | 411.0 | 411.2  | 409.9 | 408.0 | 407.1 | 407.6 | 408.5 | 409.1  |
| 180°   | 409.1  | 409.1  | 409.1  | 409.1 | 409.1  | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 | 409.1  |



TEST NUMBER: P934275

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°     | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 | 944.2  | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 |
| 2.5°   | 957.6 | 952.3 | 952.3 | 943.3 | 939.8 | 937.1  | 932.6 | 919.3 | 915.6 | 912.1 | 917.4 |
| 5°     | 965.7 | 955.8 | 948.7 | 932.6 | 919.3 | 913.8  | 896.9 | 864.7 | 843.2 | 827.2 | 818.3 |
| 7.5°   | 967.5 | 955.0 | 941.5 | 916.5 | 884.4 | 870.1  | 818.3 | 759.3 | 743.3 | 729.0 | 720.0 |
| 10°    | 965.7 | 951.4 | 932.6 | 895.1 | 819.2 | 794.1  | 742.4 | 703.9 | 694.1 | 691.4 | 694.1 |
| 12.5°  | 959.4 | 946.0 | 920.1 | 857.5 | 751.2 | 734.3  | 703.9 | 681.6 | 679.8 | 684.3 | 708.4 |
| 15°    | 948.7 | 936.2 | 905.8 | 807.5 | 713.8 | 701.3  | 679.8 | 671.8 | 681.6 | 712.9 | 785.3 |
| 17.5°  | 938.0 | 923.7 | 886.1 | 758.4 | 685.2 | 676.2  | 661.0 | 677.1 | 732.5 | 774.5 | 798.6 |
| 20°    | 923.7 | 906.7 | 863.8 | 722.7 | 664.6 | 656.6  | 649.4 | 721.8 | 763.8 | 779.0 | 792.4 |
| 22.5°  | 906.7 | 888.8 | 833.5 | 697.7 | 643.2 | 637.0  | 641.4 | 746.8 | 763.8 | 774.5 | 786.1 |
| 25°    | 884.4 | 869.2 | 797.7 | 678.0 | 626.2 | 619.0  | 636.1 | 744.1 | 753.9 | 756.7 | 779.8 |
| 27.5°  | 863.8 | 844.1 | 760.2 | 660.1 | 605.7 | 603.0  | 640.5 | 732.5 | 739.7 | 742.4 | 767.3 |
| 30°    | 838.8 | 809.3 | 718.2 | 641.4 | 584.2 | 583.3  | 641.4 | 718.2 | 716.4 | 723.5 | 748.6 |
| 32.5°  | 812.9 | 757.6 | 670.9 | 618.1 | 563.7 | 562.8  | 635.2 | 696.8 | 695.0 | 704.8 | 723.5 |
| 35°    | 788.8 | 717.3 | 606.6 | 591.4 | 537.8 | 538.7  | 619.9 | 671.8 | 672.7 | 681.6 | 693.2 |
| 37.5°  | 763.8 | 682.5 | 536.0 | 561.9 | 512.7 | 512.7  | 599.4 | 648.5 | 646.7 | 649.4 | 665.6 |
| 40°    | 734.3 | 628.0 | 473.5 | 523.5 | 489.6 | 486.9  | 574.4 | 623.6 | 617.2 | 616.4 | 638.7 |
| 42.5°  | 703.0 | 568.1 | 427.0 | 472.6 | 462.7 | 459.2  | 544.0 | 593.2 | 581.6 | 584.2 | 612.8 |
| 45°    | 669.1 | 552.1 | 391.3 | 399.3 | 435.0 | 432.4  | 511.0 | 558.3 | 550.3 | 557.4 | 586.9 |
| 47.5°  | 635.2 | 519.9 | 379.6 | 331.4 | 405.5 | 404.7  | 474.4 | 524.4 | 519.9 | 527.0 | 558.3 |
| 50°    | 588.7 | 484.1 | 378.7 | 284.1 | 372.5 | 376.1  | 430.6 | 491.3 | 491.3 | 497.5 | 530.7 |
| 52.5°  | 528.8 | 440.4 | 343.9 | 257.3 | 334.1 | 344.8  | 392.1 | 462.7 | 464.5 | 470.8 | 500.2 |
| 55°    | 474.4 | 394.8 | 318.9 | 236.7 | 288.5 | 311.8  | 354.7 | 433.3 | 436.8 | 443.1 | 469.8 |
| 57.5°  | 424.3 | 328.7 | 313.6 | 212.6 | 246.6 | 268.9  | 321.6 | 404.7 | 406.4 | 411.9 | 437.7 |
| 60°    | 370.7 | 237.6 | 287.6 | 186.7 | 209.9 | 226.9  | 291.2 | 370.7 | 377.0 | 380.5 | 402.9 |
| 62.5°  | 310.0 | 172.4 | 260.8 | 168.8 | 192.1 | 195.6  | 266.2 | 338.6 | 346.6 | 349.3 | 362.7 |
| 65°    | 220.7 | 144.7 | 221.6 | 153.6 | 173.3 | 174.2  | 239.4 | 305.5 | 312.7 | 317.1 | 327.0 |
| 67.5°  | 149.2 | 117.9 | 168.8 | 139.3 | 159.0 | 159.9  | 213.5 | 267.1 | 277.0 | 280.5 | 286.7 |
| 70°    | 103.6 | 78.6  | 125.0 | 124.1 | 143.0 | 144.7  | 185.8 | 232.3 | 241.2 | 243.8 | 247.5 |
| 72.5°  | 75.9  | 63.4  | 103.6 | 111.6 | 125.9 | 127.8  | 157.3 | 193.0 | 201.9 | 204.6 | 206.4 |
| 75°    | 58.1  | 67.0  | 84.0  | 97.4  | 107.2 | 108.1  | 128.7 | 157.3 | 163.5 | 165.3 | 166.1 |
| 77.5°  | 46.4  | 62.5  | 61.6  | 78.6  | 87.6  | 85.8   | 101.0 | 121.5 | 126.8 | 126.8 | 126.8 |
| 80°    | 34.8  | 49.1  | 46.4  | 56.3  | 64.3  | 62.5   | 72.4  | 86.7  | 88.4  | 90.2  | 89.3  |
| 82.5°  | 25.9  | 31.3  | 31.3  | 35.7  | 42.9  | 41.1   | 48.2  | 56.3  | 56.3  | 56.3  | 58.1  |
| 85°    | 16.1  | 17.8  | 14.3  | 18.7  | 24.2  | 23.3   | 26.8  | 30.4  | 31.3  | 31.3  | 29.5  |
| 87.5°  | 9.9   | 8.1   | 4.4   | 7.1   | 10.7  | 10.7   | 12.5  | 13.4  | 12.5  | 12.5  | 12.5  |
| 90°    | 7.2   | 5.0   | 2.8   | 5.0   | 7.2   | 7.7    | 12.1  | 17.9  | 20.9  | 18.6  | 13.9  |
| 92.5°  | 48.3  | 29.7  | 11.0  | 29.7  | 48.3  | 53.0   | 74.5  | 103.2 | 117.5 | 102.9 | 73.9  |
| 95°    | 94.7  | 60.5  | 26.4  | 60.5  | 94.7  | 103.2  | 183.3 | 290.1 | 343.5 | 306.5 | 232.6 |
| 97.5°  | 105.8 | 75.7  | 45.6  | 75.7  | 105.8 | 113.4  | 247.0 | 425.0 | 514.0 | 490.6 | 443.8 |
| 100°   | 115.1 | 87.7  | 60.4  | 87.7  | 115.1 | 121.9  | 270.0 | 467.6 | 566.4 | 568.1 | 571.5 |
| 102.5° | 124.1 | 98.6  | 73.0  | 98.6  | 124.1 | 130.4  | 280.7 | 481.0 | 581.2 | 610.9 | 670.5 |
| 105°   | 137.6 | 116.1 | 94.5  | 116.1 | 137.6 | 143.1  | 288.5 | 482.5 | 579.5 | 646.3 | 779.8 |
| 107.5° | 156.6 | 136.6 | 116.4 | 136.6 | 156.6 | 161.7  | 290.0 | 461.0 | 546.6 | 639.6 | 825.8 |
| 110°   | 167.6 | 149.4 | 131.2 | 149.4 | 167.6 | 172.1  | 287.8 | 442.0 | 519.1 | 623.2 | 831.4 |



TEST NUMBER: P934275

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 180.4 | 163.1 | 145.8 | 163.1 | 180.4 | 184.8  | 287.9 | 425.4 | 494.2 | 600.7 | 813.8 |
| 115°   | 199.7 | 183.7 | 167.7 | 183.7 | 199.7 | 203.7  | 290.6 | 406.3 | 464.2 | 566.9 | 772.1 |
| 117.5° | 218.4 | 204.0 | 189.4 | 204.0 | 218.4 | 222.1  | 296.0 | 394.4 | 443.6 | 536.3 | 721.5 |
| 120°   | 229.4 | 215.7 | 202.0 | 215.7 | 229.4 | 232.8  | 300.3 | 390.4 | 435.4 | 520.0 | 689.3 |
| 122.5° | 242.0 | 228.2 | 214.5 | 228.2 | 242.0 | 245.4  | 306.6 | 388.2 | 429.1 | 505.3 | 657.7 |
| 125°   | 258.5 | 245.9 | 233.4 | 245.9 | 258.5 | 261.6  | 315.2 | 386.5 | 422.2 | 487.0 | 616.4 |
| 127.5° | 274.1 | 261.4 | 248.7 | 261.4 | 274.1 | 277.3  | 323.7 | 385.6 | 416.5 | 472.1 | 583.1 |
| 130°   | 284.3 | 270.7 | 257.0 | 270.7 | 284.3 | 287.7  | 329.9 | 386.1 | 414.3 | 463.7 | 562.7 |
| 132.5° | 292.9 | 279.2 | 265.5 | 279.2 | 292.9 | 296.2  | 335.0 | 386.5 | 412.4 | 456.7 | 545.2 |
| 135°   | 303.0 | 290.6 | 278.1 | 290.6 | 303.0 | 306.1  | 340.5 | 386.2 | 409.1 | 446.2 | 520.4 |
| 137.5° | 315.6 | 303.3 | 291.0 | 303.3 | 315.6 | 318.7  | 348.6 | 388.5 | 408.5 | 439.8 | 502.5 |
| 140°   | 324.4 | 313.1 | 301.7 | 313.1 | 324.4 | 327.2  | 353.7 | 388.9 | 406.6 | 433.7 | 487.9 |
| 142.5° | 330.9 | 320.4 | 309.9 | 320.4 | 330.9 | 333.5  | 357.9 | 390.4 | 406.6 | 430.4 | 477.9 |
| 145°   | 340.9 | 331.8 | 322.6 | 331.8 | 340.9 | 343.2  | 363.5 | 390.4 | 403.9 | 423.3 | 462.2 |
| 147.5° | 353.1 | 344.1 | 335.2 | 344.1 | 353.1 | 355.3  | 371.5 | 393.0 | 403.9 | 419.1 | 449.8 |
| 150°   | 359.6 | 351.6 | 343.5 | 351.6 | 359.6 | 361.6  | 375.7 | 394.4 | 403.9 | 416.8 | 442.7 |
| 152.5° | 364.2 | 358.0 | 351.9 | 358.0 | 364.2 | 365.7  | 378.4 | 395.3 | 403.9 | 414.9 | 437.0 |
| 155°   | 373.6 | 369.1 | 364.6 | 369.1 | 373.6 | 374.7  | 384.4 | 397.4 | 403.9 | 412.7 | 430.2 |
| 157.5° | 382.7 | 378.3 | 373.9 | 378.3 | 382.7 | 383.8  | 390.5 | 399.4 | 403.9 | 410.7 | 424.4 |
| 160°   | 387.0 | 383.6 | 380.2 | 383.6 | 387.0 | 387.9  | 393.2 | 400.3 | 403.9 | 409.7 | 421.4 |
| 162.5° | 391.7 | 389.1 | 386.5 | 389.1 | 391.7 | 392.3  | 396.1 | 401.3 | 403.9 | 408.8 | 418.7 |
| 165°   | 398.0 | 395.7 | 393.4 | 395.7 | 398.0 | 398.6  | 400.4 | 402.7 | 403.9 | 407.4 | 414.4 |
| 167.5° | 401.9 | 400.8 | 399.7 | 400.8 | 401.9 | 402.2  | 403.7 | 405.6 | 406.6 | 408.9 | 413.5 |
| 170°   | 406.1 | 404.9 | 403.9 | 404.9 | 406.1 | 406.3  | 406.4 | 406.5 | 406.6 | 408.9 | 413.5 |
| 172.5° | 406.5 | 406.3 | 406.1 | 406.3 | 406.5 | 406.6  | 406.6 | 406.6 | 406.6 | 408.4 | 412.0 |
| 175°   | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 | 409.1  | 408.3 | 407.1 | 406.6 | 407.8 | 410.1 |
| 177.5° | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 | 409.1  | 408.5 | 407.6 | 407.1 | 408.0 | 409.9 |
| 180°   | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 | 409.1  | 409.1 | 409.1 | 409.1 | 409.1 | 409.1 |



TEST NUMBER: P934275

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 260°   | 270°   | 280°   | 290°  | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|-------|
| 0°     | 944.2  | 944.2 | 944.2  | 944.2  | 944.2  | 944.2 | 944.2  | 944.2 | 944.2 | 944.2 | 944.2 |
| 2.5°   | 911.2  | 908.5 | 912.1  | 902.2  | 912.1  | 908.5 | 911.2  | 917.4 | 912.1 | 915.6 | 919.3 |
| 5°     | 799.6  | 795.0 | 780.7  | 769.1  | 780.7  | 795.0 | 799.6  | 818.3 | 827.2 | 843.2 | 864.7 |
| 7.5°   | 714.7  | 711.1 | 707.5  | 700.4  | 707.5  | 711.1 | 714.7  | 720.0 | 729.0 | 743.3 | 759.3 |
| 10°    | 695.9  | 696.8 | 702.1  | 701.3  | 702.1  | 696.8 | 695.9  | 694.1 | 691.4 | 694.1 | 703.9 |
| 12.5°  | 744.1  | 752.1 | 781.6  | 779.8  | 781.6  | 752.1 | 744.1  | 708.4 | 684.3 | 679.8 | 681.6 |
| 15°    | 799.6  | 802.2 | 808.4  | 809.3  | 808.4  | 802.2 | 799.6  | 785.3 | 712.9 | 681.6 | 671.8 |
| 17.5°  | 804.9  | 805.8 | 810.2  | 810.2  | 810.2  | 805.8 | 804.9  | 798.6 | 774.5 | 732.5 | 677.1 |
| 20°    | 800.4  | 802.2 | 811.1  | 812.9  | 811.1  | 802.2 | 800.4  | 792.4 | 779.0 | 763.8 | 721.8 |
| 22.5°  | 798.6  | 802.2 | 809.3  | 808.4  | 809.3  | 802.2 | 798.6  | 786.1 | 774.5 | 763.8 | 746.8 |
| 25°    | 789.7  | 789.7 | 790.6  | 791.5  | 790.6  | 789.7 | 789.7  | 779.8 | 756.7 | 753.9 | 744.1 |
| 27.5°  | 771.0  | 772.7 | 778.1  | 777.2  | 778.1  | 772.7 | 771.0  | 767.3 | 742.4 | 739.7 | 732.5 |
| 30°    | 753.9  | 752.1 | 747.7  | 744.1  | 747.7  | 752.1 | 753.9  | 748.6 | 723.5 | 716.4 | 718.2 |
| 32.5°  | 725.4  | 720.9 | 716.4  | 713.8  | 716.4  | 720.9 | 725.4  | 723.5 | 704.8 | 695.0 | 696.8 |
| 35°    | 691.4  | 692.3 | 691.4  | 688.7  | 691.4  | 692.3 | 691.4  | 693.2 | 681.6 | 672.7 | 671.8 |
| 37.5°  | 667.3  | 669.1 | 668.2  | 664.6  | 668.2  | 669.1 | 667.3  | 665.6 | 649.4 | 646.7 | 648.5 |
| 40°    | 642.3  | 643.2 | 642.3  | 639.6  | 642.3  | 643.2 | 642.3  | 638.7 | 616.4 | 617.2 | 623.6 |
| 42.5°  | 618.1  | 617.2 | 614.6  | 612.8  | 614.6  | 617.2 | 618.1  | 612.8 | 584.2 | 581.6 | 593.2 |
| 45°    | 590.5  | 591.4 | 586.0  | 583.3  | 586.0  | 591.4 | 590.5  | 586.9 | 557.4 | 550.3 | 558.3 |
| 47.5°  | 562.8  | 562.8 | 558.3  | 555.6  | 558.3  | 562.8 | 562.8  | 558.3 | 527.0 | 519.9 | 524.4 |
| 50°    | 533.3  | 532.4 | 526.1  | 525.3  | 526.1  | 532.4 | 533.3  | 530.7 | 497.5 | 491.3 | 491.3 |
| 52.5°  | 499.3  | 499.3 | 500.2  | 502.1  | 500.2  | 499.3 | 499.3  | 500.2 | 470.8 | 464.5 | 462.7 |
| 55°    | 469.8  | 470.8 | 477.0  | 478.8  | 477.0  | 470.8 | 469.8  | 469.8 | 443.1 | 436.8 | 433.3 |
| 57.5°  | 439.5  | 439.5 | 444.0  | 444.0  | 444.0  | 439.5 | 439.5  | 437.7 | 411.9 | 406.4 | 404.7 |
| 60°    | 404.7  | 406.4 | 410.0  | 409.1  | 410.0  | 406.4 | 404.7  | 402.9 | 380.5 | 377.0 | 370.7 |
| 62.5°  | 368.1  | 369.9 | 370.7  | 369.0  | 370.7  | 369.9 | 368.1  | 362.7 | 349.3 | 346.6 | 338.6 |
| 65°    | 329.6  | 331.4 | 332.3  | 330.5  | 332.3  | 331.4 | 329.6  | 327.0 | 317.1 | 312.7 | 305.5 |
| 67.5°  | 290.3  | 289.4 | 288.5  | 292.2  | 288.5  | 289.4 | 290.3  | 286.7 | 280.5 | 277.0 | 267.1 |
| 70°    | 250.1  | 250.1 | 249.3  | 251.0  | 249.3  | 250.1 | 250.1  | 247.5 | 243.8 | 241.2 | 232.3 |
| 72.5°  | 207.3  | 206.4 | 209.9  | 207.3  | 209.9  | 206.4 | 207.3  | 206.4 | 204.6 | 201.9 | 193.0 |
| 75°    | 165.3  | 167.0 | 165.3  | 167.9  | 165.3  | 167.0 | 165.3  | 166.1 | 165.3 | 163.5 | 157.3 |
| 77.5°  | 125.9  | 127.8 | 125.9  | 125.9  | 125.9  | 127.8 | 125.9  | 126.8 | 126.8 | 126.8 | 121.5 |
| 80°    | 89.3   | 88.4  | 88.4   | 87.6   | 88.4   | 88.4  | 89.3   | 89.3  | 90.2  | 88.4  | 86.7  |
| 82.5°  | 57.2   | 56.3  | 56.3   | 58.1   | 56.3   | 56.3  | 57.2   | 58.1  | 56.3  | 56.3  | 56.3  |
| 85°    | 31.3   | 32.1  | 30.4   | 30.4   | 30.4   | 32.1  | 31.3   | 29.5  | 31.3  | 31.3  | 30.4  |
| 87.5°  | 11.6   | 10.7  | 10.7   | 10.7   | 10.7   | 10.7  | 11.6   | 12.5  | 12.5  | 12.5  | 13.4  |
| 90°    | 10.4   | 10.4  | 10.4   | 10.4   | 10.4   | 10.4  | 10.4   | 13.9  | 18.6  | 20.9  | 17.9  |
| 92.5°  | 52.1   | 50.1  | 41.7   | 33.5   | 41.7   | 50.1  | 52.1   | 73.9  | 102.9 | 117.5 | 103.2 |
| 95°    | 177.1  | 170.8 | 145.6  | 120.5  | 145.6  | 170.8 | 177.1  | 232.6 | 306.5 | 343.5 | 290.1 |
| 97.5°  | 408.7  | 396.8 | 349.0  | 301.2  | 349.0  | 396.8 | 408.7  | 443.8 | 490.6 | 514.0 | 425.0 |
| 100°   | 574.1  | 559.9 | 502.9  | 445.9  | 502.9  | 559.9 | 574.1  | 571.5 | 568.1 | 566.4 | 467.6 |
| 102.5° | 715.2  | 703.0 | 654.2  | 605.3  | 654.2  | 703.0 | 715.2  | 670.5 | 610.9 | 581.2 | 481.0 |
| 105°   | 879.9  | 873.3 | 847.2  | 820.9  | 847.2  | 873.3 | 879.9  | 779.8 | 646.3 | 579.5 | 482.5 |
| 107.5° | 965.5  | 967.1 | 973.4  | 979.8  | 973.4  | 967.1 | 965.5  | 825.8 | 639.6 | 546.6 | 461.0 |
| 110°   | 987.5  | 994.4 | 1021.6 | 1049.0 | 1021.6 | 994.4 | 987.5  | 831.4 | 623.2 | 519.1 | 442.0 |



TEST NUMBER: P934275

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 260°   | 270°   | 280°   | 290°  | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|-------|
| 112.5° | 973.5  | 984.0 | 1026.0 | 1067.9 | 1026.0 | 984.0 | 973.5  | 813.8 | 600.7 | 494.2 | 425.4 |
| 115°   | 926.0  | 940.6 | 998.7  | 1057.0 | 998.7  | 940.6 | 926.0  | 772.1 | 566.9 | 464.2 | 406.3 |
| 117.5° | 860.4  | 876.5 | 941.1  | 1005.7 | 941.1  | 876.5 | 860.4  | 721.5 | 536.3 | 443.6 | 394.4 |
| 120°   | 816.2  | 831.9 | 894.6  | 957.4  | 894.6  | 831.9 | 816.2  | 689.3 | 520.0 | 435.4 | 390.4 |
| 122.5° | 772.0  | 787.5 | 849.4  | 911.2  | 849.4  | 787.5 | 772.0  | 657.7 | 505.3 | 429.1 | 388.2 |
| 125°   | 713.5  | 727.7 | 784.7  | 841.7  | 784.7  | 727.7 | 713.5  | 616.4 | 487.0 | 422.2 | 386.5 |
| 127.5° | 666.5  | 678.5 | 726.7  | 774.8  | 726.7  | 678.5 | 666.5  | 583.1 | 472.1 | 416.5 | 385.6 |
| 130°   | 637.0  | 648.1 | 692.5  | 736.9  | 692.5  | 648.1 | 637.0  | 562.7 | 463.7 | 414.3 | 386.1 |
| 132.5° | 611.7  | 621.6 | 661.4  | 701.2  | 661.4  | 621.6 | 611.7  | 545.2 | 456.7 | 412.4 | 386.5 |
| 135°   | 576.0  | 584.6 | 618.8  | 653.1  | 618.8  | 584.6 | 576.0  | 520.4 | 446.2 | 409.1 | 386.2 |
| 137.5° | 549.6  | 556.6 | 584.7  | 612.8  | 584.7  | 556.6 | 549.6  | 502.5 | 439.8 | 408.5 | 388.5 |
| 140°   | 528.4  | 535.0 | 561.2  | 587.5  | 561.2  | 535.0 | 528.4  | 487.9 | 433.7 | 406.6 | 388.9 |
| 142.5° | 513.6  | 519.3 | 541.9  | 564.4  | 541.9  | 519.3 | 513.6  | 477.9 | 430.4 | 406.6 | 390.4 |
| 145°   | 491.4  | 495.7 | 512.8  | 529.9  | 512.8  | 495.7 | 491.4  | 462.2 | 423.3 | 403.9 | 390.4 |
| 147.5° | 472.8  | 476.3 | 490.4  | 504.6  | 490.4  | 476.3 | 472.8  | 449.8 | 419.1 | 403.9 | 393.0 |
| 150°   | 462.0  | 464.9 | 476.4  | 487.9  | 476.4  | 464.9 | 462.0  | 442.7 | 416.8 | 403.9 | 394.4 |
| 152.5° | 453.5  | 455.6 | 464.3  | 473.0  | 464.3  | 455.6 | 453.5  | 437.0 | 414.9 | 403.9 | 395.3 |
| 155°   | 443.4  | 444.8 | 450.6  | 456.3  | 450.6  | 444.8 | 443.4  | 430.2 | 412.7 | 403.9 | 397.4 |
| 157.5° | 434.6  | 435.6 | 439.6  | 443.6  | 439.6  | 435.6 | 434.6  | 424.4 | 410.7 | 403.9 | 399.4 |
| 160°   | 430.2  | 430.8 | 433.1  | 435.4  | 433.1  | 430.8 | 430.2  | 421.4 | 409.7 | 403.9 | 400.3 |
| 162.5° | 426.1  | 426.6 | 428.8  | 431.0  | 428.8  | 426.6 | 426.1  | 418.7 | 408.8 | 403.9 | 401.3 |
| 165°   | 419.8  | 420.4 | 422.7  | 425.0  | 422.7  | 420.4 | 419.8  | 414.4 | 407.4 | 403.9 | 402.7 |
| 167.5° | 417.0  | 417.3 | 418.2  | 419.2  | 418.2  | 417.3 | 417.0  | 413.5 | 408.9 | 406.6 | 405.6 |
| 170°   | 417.0  | 417.0 | 417.0  | 417.0  | 417.0  | 417.0 | 417.0  | 413.5 | 408.9 | 406.6 | 406.5 |
| 172.5° | 414.8  | 414.6 | 413.7  | 412.9  | 413.7  | 414.6 | 414.8  | 412.0 | 408.4 | 406.6 | 406.6 |
| 175°   | 411.8  | 411.8 | 411.8  | 411.8  | 411.8  | 411.8 | 411.8  | 410.1 | 407.8 | 406.6 | 407.1 |
| 177.5° | 411.2  | 411.0 | 410.1  | 409.1  | 410.1  | 411.0 | 411.2  | 409.9 | 408.0 | 407.1 | 407.6 |
| 180°   | 409.1  | 409.1 | 409.1  | 409.1  | 409.1  | 409.1 | 409.1  | 409.1 | 409.1 | 409.1 | 409.1 |



TEST NUMBER: P934275

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 0°     | 944.2 | 944.2  | 944.2 | 944.2 | 944.2 |
| 2.5°   | 932.6 | 937.1  | 939.8 | 943.3 | 952.3 |
| 5°     | 896.9 | 913.8  | 919.3 | 932.6 | 948.7 |
| 7.5°   | 818.3 | 870.1  | 884.4 | 916.5 | 941.5 |
| 10°    | 742.4 | 794.1  | 819.2 | 895.1 | 932.6 |
| 12.5°  | 703.9 | 734.3  | 751.2 | 857.5 | 920.1 |
| 15°    | 679.8 | 701.3  | 713.8 | 807.5 | 905.8 |
| 17.5°  | 661.0 | 676.2  | 685.2 | 758.4 | 886.1 |
| 20°    | 649.4 | 656.6  | 664.6 | 722.7 | 863.8 |
| 22.5°  | 641.4 | 637.0  | 643.2 | 697.7 | 833.5 |
| 25°    | 636.1 | 619.0  | 626.2 | 678.0 | 797.7 |
| 27.5°  | 640.5 | 603.0  | 605.7 | 660.1 | 760.2 |
| 30°    | 641.4 | 583.3  | 584.2 | 641.4 | 718.2 |
| 32.5°  | 635.2 | 562.8  | 563.7 | 618.1 | 670.9 |
| 35°    | 619.9 | 538.7  | 537.8 | 591.4 | 606.6 |
| 37.5°  | 599.4 | 512.7  | 512.7 | 561.9 | 536.0 |
| 40°    | 574.4 | 486.9  | 489.6 | 523.5 | 473.5 |
| 42.5°  | 544.0 | 459.2  | 462.7 | 472.6 | 427.0 |
| 45°    | 511.0 | 432.4  | 435.0 | 399.3 | 391.3 |
| 47.5°  | 474.4 | 404.7  | 405.5 | 331.4 | 379.6 |
| 50°    | 430.6 | 376.1  | 372.5 | 284.1 | 378.7 |
| 52.5°  | 392.1 | 344.8  | 334.1 | 257.3 | 343.9 |
| 55°    | 354.7 | 311.8  | 288.5 | 236.7 | 318.9 |
| 57.5°  | 321.6 | 268.9  | 246.6 | 212.6 | 313.6 |
| 60°    | 291.2 | 226.9  | 209.9 | 186.7 | 287.6 |
| 62.5°  | 266.2 | 195.6  | 192.1 | 168.8 | 260.8 |
| 65°    | 239.4 | 174.2  | 173.3 | 153.6 | 221.6 |
| 67.5°  | 213.5 | 159.9  | 159.0 | 139.3 | 168.8 |
| 70°    | 185.8 | 144.7  | 143.0 | 124.1 | 125.0 |
| 72.5°  | 157.3 | 127.8  | 125.9 | 111.6 | 103.6 |
| 75°    | 128.7 | 108.1  | 107.2 | 97.4  | 84.0  |
| 77.5°  | 101.0 | 85.8   | 87.6  | 78.6  | 61.6  |
| 80°    | 72.4  | 62.5   | 64.3  | 56.3  | 46.4  |
| 82.5°  | 48.2  | 41.1   | 42.9  | 35.7  | 31.3  |
| 85°    | 26.8  | 23.3   | 24.2  | 18.7  | 14.3  |
| 87.5°  | 12.5  | 10.7   | 10.7  | 7.1   | 4.4   |
| 90°    | 12.1  | 7.7    | 7.2   | 5.0   | 2.8   |
| 92.5°  | 74.5  | 53.0   | 48.3  | 29.7  | 11.0  |
| 95°    | 183.3 | 103.2  | 94.7  | 60.5  | 26.4  |
| 97.5°  | 247.0 | 113.4  | 105.8 | 75.7  | 45.6  |
| 100°   | 270.0 | 121.9  | 115.1 | 87.7  | 60.4  |
| 102.5° | 280.7 | 130.4  | 124.1 | 98.6  | 73.0  |
| 105°   | 288.5 | 143.1  | 137.6 | 116.1 | 94.5  |
| 107.5° | 290.0 | 161.7  | 156.6 | 136.6 | 116.4 |
| 110°   | 287.8 | 172.1  | 167.6 | 149.4 | 131.2 |



TEST NUMBER: P934275

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 287.9 | 184.8  | 180.4 | 163.1 | 145.8 |
| 115°   | 290.6 | 203.7  | 199.7 | 183.7 | 167.7 |
| 117.5° | 296.0 | 222.1  | 218.4 | 204.0 | 189.4 |
| 120°   | 300.3 | 232.8  | 229.4 | 215.7 | 202.0 |
| 122.5° | 306.6 | 245.4  | 242.0 | 228.2 | 214.5 |
| 125°   | 315.2 | 261.6  | 258.5 | 245.9 | 233.4 |
| 127.5° | 323.7 | 277.3  | 274.1 | 261.4 | 248.7 |
| 130°   | 329.9 | 287.7  | 284.3 | 270.7 | 257.0 |
| 132.5° | 335.0 | 296.2  | 292.9 | 279.2 | 265.5 |
| 135°   | 340.5 | 306.1  | 303.0 | 290.6 | 278.1 |
| 137.5° | 348.6 | 318.7  | 315.6 | 303.3 | 291.0 |
| 140°   | 353.7 | 327.2  | 324.4 | 313.1 | 301.7 |
| 142.5° | 357.9 | 333.5  | 330.9 | 320.4 | 309.9 |
| 145°   | 363.5 | 343.2  | 340.9 | 331.8 | 322.6 |
| 147.5° | 371.5 | 355.3  | 353.1 | 344.1 | 335.2 |
| 150°   | 375.7 | 361.6  | 359.6 | 351.6 | 343.5 |
| 152.5° | 378.4 | 365.7  | 364.2 | 358.0 | 351.9 |
| 155°   | 384.4 | 374.7  | 373.6 | 369.1 | 364.6 |
| 157.5° | 390.5 | 383.8  | 382.7 | 378.3 | 373.9 |
| 160°   | 393.2 | 387.9  | 387.0 | 383.6 | 380.2 |
| 162.5° | 396.1 | 392.3  | 391.7 | 389.1 | 386.5 |
| 165°   | 400.4 | 398.6  | 398.0 | 395.7 | 393.4 |
| 167.5° | 403.7 | 402.2  | 401.9 | 400.8 | 399.7 |
| 170°   | 406.4 | 406.3  | 406.1 | 404.9 | 403.9 |
| 172.5° | 406.6 | 406.6  | 406.5 | 406.3 | 406.1 |
| 175°   | 408.3 | 409.1  | 409.1 | 409.1 | 409.1 |
| 177.5° | 408.5 | 409.1  | 409.1 | 409.1 | 409.1 |
| 180°   | 409.1 | 409.1  | 409.1 | 409.1 | 409.1 |



TEST NUMBER: P934275  
 CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-6

**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 | 10.75            | 11.59 | 11.72 | 12.58 | 13.88 | 13.57          | 14.42 | 14.55 | 15.40 | 16.70 |
|                 | 3H   | 11.22            | 11.98 | 12.21 | 12.98 | 14.30 | 14.92          | 15.67 | 15.90 | 16.67 | 17.99 |
|                 | 4H   | 11.41            | 12.13 | 12.41 | 13.13 | 14.46 | 15.36          | 16.07 | 16.36 | 17.07 | 18.40 |
|                 | 6H   | 11.53            | 12.19 | 12.54 | 13.20 | 14.54 | 15.64          | 16.30 | 16.65 | 17.30 | 18.65 |
|                 | 8H   | 11.53            | 12.16 | 12.55 | 13.18 | 14.52 | 15.71          | 16.34 | 16.73 | 17.36 | 18.70 |
|                 | 12H  | 11.50            | 12.10 | 12.52 | 13.12 | 14.48 | 15.75          | 16.35 | 16.77 | 17.36 | 18.73 |
| 4H              | 2H   | 11.78            | 12.49 | 12.78 | 13.49 | 14.82 | 13.98          | 14.70 | 14.99 | 15.70 | 17.03 |
|                 | 3H   | 12.80            | 13.40 | 13.82 | 14.43 | 15.77 | 15.48          | 16.08 | 16.50 | 17.11 | 18.45 |
|                 | 4H   | 13.08            | 13.62 | 14.10 | 14.65 | 16.01 | 16.01          | 16.55 | 17.03 | 17.58 | 18.94 |
|                 | 6H   | 13.20            | 13.67 | 14.23 | 14.72 | 16.08 | 16.37          | 16.84 | 17.40 | 17.89 | 19.25 |
|                 | 8H   | 13.21            | 13.65 | 14.24 | 14.68 | 16.06 | 16.48          | 16.92 | 17.51 | 17.95 | 19.33 |
|                 | 12H  | 13.17            | 13.57 | 14.23 | 14.62 | 16.01 | 16.53          | 16.93 | 17.58 | 17.98 | 19.36 |
| 8H              | 4H   | 13.53            | 13.97 | 14.56 | 15.01 | 16.38 | 16.13          | 16.57 | 17.17 | 17.61 | 18.99 |
|                 | 6H   | 13.79            | 14.15 | 14.85 | 15.23 | 16.61 | 16.57          | 16.93 | 17.62 | 18.01 | 19.38 |
|                 | 8H   | 13.83            | 14.15 | 14.90 | 15.22 | 16.61 | 16.72          | 17.04 | 17.78 | 18.10 | 19.49 |
|                 | 12H  | 13.82            | 14.10 | 14.88 | 15.16 | 16.59 | 16.81          | 17.09 | 17.88 | 18.15 | 19.59 |
| 12H             | 4H   | 13.53            | 13.93 | 14.59 | 14.98 | 16.37 | 16.10          | 16.49 | 17.15 | 17.54 | 18.93 |
|                 | 6H   | 13.85            | 14.17 | 14.92 | 15.23 | 16.63 | 16.56          | 16.88 | 17.63 | 17.95 | 19.34 |
|                 | 8H   | 13.92            | 14.20 | 14.99 | 15.26 | 16.69 | 16.72          | 17.00 | 17.79 | 18.06 | 19.50 |