

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: P935222

Luminaire Tested: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935222
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

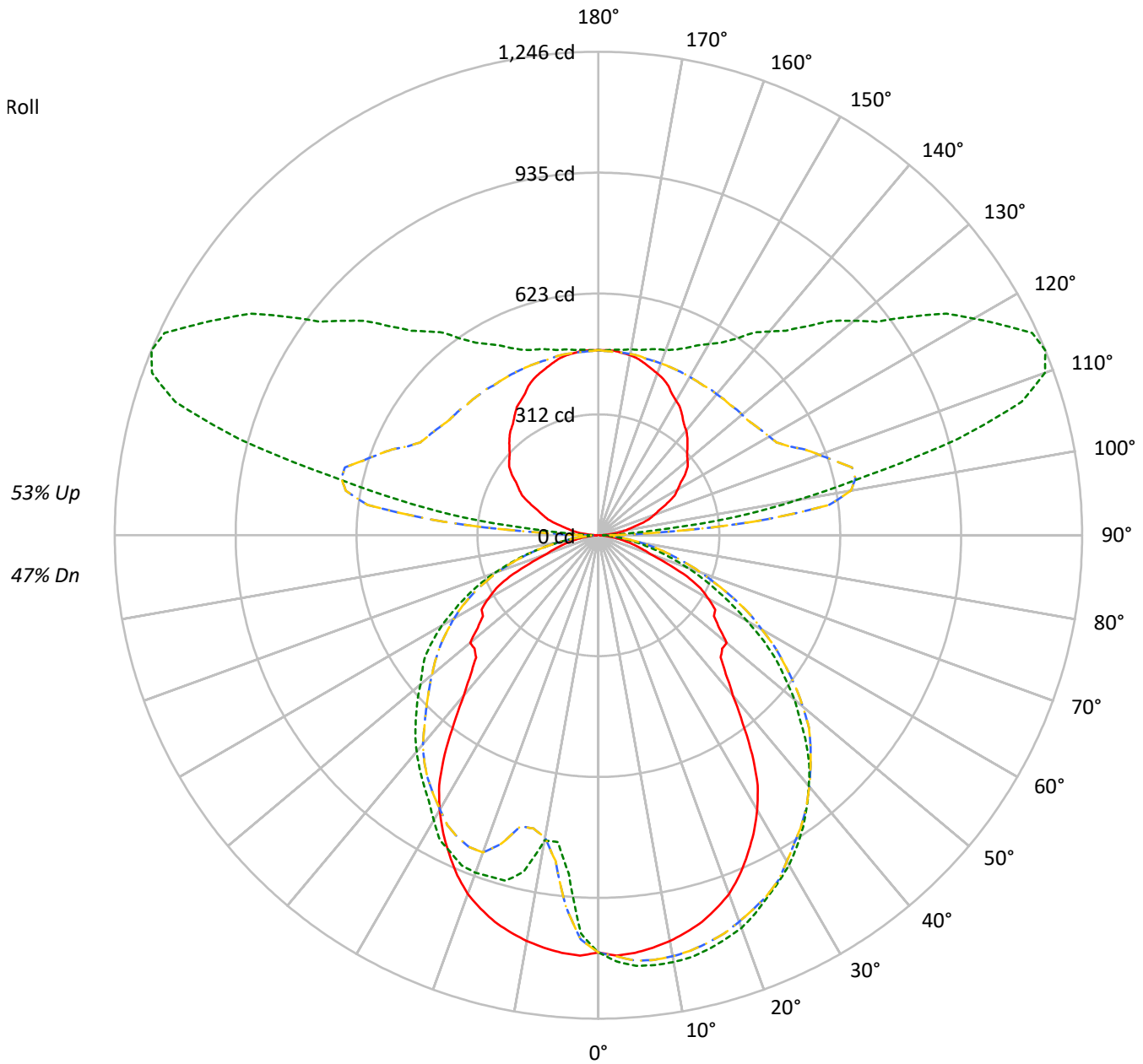
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5883.6 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 58
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: P935222
CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

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 | 67 | 67 | 67 | 54 | 54 | 54 | 47 | 47 | 47 | 47 |
| 1 | 97 | 93 | 89 | 86 | 89 | 86 | 82 | 79 | 72 | 70 | 67 | 59 | 58 | 56 | 48 | 47 | 46 | 40 | 40 | 40 | 40 |
| 2 | 89 | 81 | 75 | 70 | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 49 | 47 | 42 | 40 | 38 | 34 | 34 | 34 | 34 |
| 3 | 81 | 71 | 64 | 58 | 74 | 66 | 60 | 54 | 56 | 51 | 47 | 46 | 43 | 40 | 37 | 35 | 33 | 28 | 28 | 28 | 28 |
| 4 | 74 | 63 | 55 | 49 | 68 | 58 | 51 | 46 | 49 | 44 | 40 | 41 | 37 | 34 | 33 | 30 | 28 | 24 | 24 | 24 | 24 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 39 | 44 | 39 | 34 | 37 | 33 | 29 | 30 | 27 | 24 | 21 | 21 | 21 | 21 |
| 6 | 62 | 50 | 42 | 36 | 57 | 47 | 39 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 21 | 19 | 19 | 19 | 19 |
| 7 | 58 | 45 | 37 | 32 | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 21 | 19 | 16 | 16 | 16 | 16 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 27 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 15 | 15 | 15 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 15 | 13 | 13 | 13 | 13 |
| 10 | 46 | 34 | 27 | 22 | 43 | 32 | 26 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 | 12 | 12 | 12 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|------|
| 0° | 9978 | 9978 | 9978 | 9978 |
| 5° | 10043 | 10073 | 10043 | 7921 |
| 10° | 9964 | 9922 | 9964 | 7093 |
| 15° | 9844 | 9707 | 9844 | 8105 |
| 20° | 9627 | 9453 | 9627 | 8123 |
| 25° | 9194 | 9081 | 9194 | 7951 |
| 30° | 8640 | 8773 | 8640 | 7573 |
| 35° | 7691 | 8383 | 7691 | 7157 |
| 40° | 6397 | 7924 | 6397 | 6843 |
| 45° | 5705 | 7386 | 5705 | 6483 |
| 50° | 6047 | 6746 | 6047 | 6120 |
| 55° | 5673 | 6055 | 5673 | 5911 |
| 60° | 5827 | 5141 | 5827 | 5413 |
| 65° | 5258 | 4250 | 5258 | 4752 |
| 70° | 3618 | 3388 | 3618 | 3983 |
| 75° | 3135 | 2504 | 3135 | 2999 |
| 80° | 2476 | 1656 | 2476 | 1803 |
| 85° | 1341 | 877 | 1341 | 745 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8761 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.1 | 1.6 |
| 10°-20° | 275.6 | 4.7 |
| 20°-30° | 426.0 | 7.2 |
| 30°-40° | 508.6 | 8.6 |
| 40°-50° | 511.6 | 8.7 |
| 50°-60° | 445.1 | 7.6 |
| 60°-70° | 315.6 | 5.4 |
| 70°-80° | 167.0 | 2.8 |
| 80°-90° | 43.4 | 0.7 |
| 90°-100° | 232.6 | 4.0 |
| 100°-110° | 611.6 | 10.4 |
| 110°-120° | 634.1 | 10.8 |
| 120°-130° | 508.6 | 8.6 |
| 130°-140° | 399.1 | 6.8 |
| 140°-150° | 306.3 | 5.2 |
| 150°-160° | 220.6 | 3.7 |
| 160°-170° | 135.0 | 2.3 |
| 170°-180° | 45.6 | 0.8 |
| 0°-30° | 798.7 | 13.6 |
| 0°-40° | 1307.3 | 22.2 |
| 0°-60° | 2264.0 | 38.5 |
| 0°-90° | 2790.0 | 47.4 |
| 90°-120° | 1478.3 | 25.1 |
| 90°-150° | 2692.4 | 45.8 |
| 90°-180° | 3094.0 | 52.6 |
| 0°-180° | 5883.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1075 | 1075 | 1075 | 1075 | 1075 | |
| 5° | 1080 | 1114 | 1080 | 876 | 1080 | 102 |
| 15° | 1032 | 1104 | 1032 | 922 | 1032 | 290 |
| 25° | 908 | 1030 | 908 | 901 | 908 | 417 |
| 35° | 691 | 919 | 691 | 784 | 691 | 427 |
| 45° | 446 | 757 | 446 | 664 | 446 | 357 |
| 55° | 363 | 559 | 363 | 545 | 363 | 334 |
| 65° | 252 | 337 | 252 | 376 | 252 | 241 |
| 75° | 96 | 160 | 96 | 191 | 96 | 101 |
| 85° | 16 | 41 | 16 | 35 | 16 | 22 |
| 90° | 3 | 12 | 3 | 12 | 3 | 3 |
| 95° | 31 | 141 | 31 | 141 | 31 | 34 |
| 105° | 110 | 958 | 110 | 958 | 110 | 117 |
| 115° | 196 | 1233 | 196 | 1233 | 196 | 193 |
| 125° | 272 | 982 | 272 | 982 | 272 | 242 |
| 135° | 324 | 762 | 324 | 762 | 324 | 251 |
| 145° | 376 | 618 | 376 | 618 | 376 | 236 |
| 155° | 425 | 532 | 425 | 532 | 425 | 195 |
| 165° | 459 | 496 | 459 | 496 | 459 | 130 |
| 175° | 477 | 480 | 477 | 480 | 477 | 45 |
| 180° | 477 | 477 | 477 | 477 | 477 | |



TEST NUMBER: P935222

CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 |
| 2.5° | 1084.5 | 1084.5 | 1090.6 | 1092.6 | 1092.6 | 1089.6 | 1086.5 | 1089.6 | 1098.7 | 1101.8 | 1100.8 |
| 5° | 1080.5 | 1088.5 | 1099.8 | 1101.8 | 1103.8 | 1102.8 | 1100.8 | 1102.8 | 1113.0 | 1115.0 | 1116.0 |
| 7.5° | 1072.3 | 1087.5 | 1101.8 | 1104.9 | 1107.9 | 1104.9 | 1103.8 | 1105.9 | 1116.0 | 1118.0 | 1118.0 |
| 10° | 1062.1 | 1083.5 | 1099.8 | 1101.8 | 1104.9 | 1101.8 | 1101.8 | 1105.9 | 1116.0 | 1118.0 | 1119.1 |
| 12.5° | 1047.9 | 1077.4 | 1092.6 | 1094.7 | 1098.7 | 1097.7 | 1096.7 | 1100.8 | 1111.0 | 1113.0 | 1113.0 |
| 15° | 1031.6 | 1066.2 | 1080.5 | 1082.5 | 1089.6 | 1087.5 | 1087.5 | 1091.6 | 1102.8 | 1105.9 | 1104.9 |
| 17.5° | 1009.2 | 1052.0 | 1068.2 | 1071.3 | 1076.4 | 1075.3 | 1076.4 | 1080.5 | 1090.6 | 1092.6 | 1093.6 |
| 20° | 983.8 | 1032.6 | 1052.0 | 1055.0 | 1060.1 | 1060.1 | 1060.1 | 1065.1 | 1075.3 | 1079.4 | 1079.4 |
| 22.5° | 949.2 | 1012.2 | 1032.6 | 1034.6 | 1040.7 | 1040.7 | 1042.8 | 1049.9 | 1059.1 | 1060.1 | 1060.1 |
| 25° | 908.5 | 989.9 | 1007.2 | 1013.3 | 1019.4 | 1022.4 | 1025.5 | 1029.6 | 1032.6 | 1031.6 | 1032.6 |
| 27.5° | 865.8 | 961.4 | 983.8 | 987.8 | 996.0 | 999.1 | 1003.1 | 1004.2 | 1005.2 | 1008.2 | 1006.2 |
| 30° | 818.0 | 921.7 | 955.3 | 959.3 | 972.6 | 974.6 | 970.6 | 972.6 | 977.7 | 979.7 | 981.8 |
| 32.5° | 764.0 | 862.7 | 925.8 | 934.9 | 947.2 | 941.0 | 940.0 | 943.1 | 951.3 | 951.3 | 953.3 |
| 35° | 690.8 | 817.0 | 898.4 | 906.4 | 915.6 | 908.5 | 912.5 | 913.6 | 918.7 | 921.7 | 920.7 |
| 37.5° | 610.4 | 777.2 | 869.9 | 876.0 | 883.0 | 873.9 | 880.0 | 883.0 | 887.1 | 885.1 | 885.1 |
| 40° | 539.2 | 715.2 | 836.3 | 840.3 | 846.5 | 839.3 | 845.4 | 847.5 | 849.5 | 847.5 | 846.5 |
| 42.5° | 486.3 | 647.0 | 800.6 | 805.7 | 801.6 | 806.7 | 808.8 | 812.9 | 809.8 | 805.7 | 805.7 |
| 45° | 445.6 | 628.7 | 762.0 | 768.1 | 762.0 | 770.2 | 773.2 | 773.2 | 764.0 | 762.0 | 761.0 |
| 47.5° | 432.4 | 592.1 | 723.3 | 723.3 | 720.3 | 730.4 | 735.6 | 728.4 | 719.3 | 716.3 | 716.3 |
| 50° | 431.4 | 551.4 | 670.4 | 666.4 | 680.6 | 692.8 | 687.8 | 680.6 | 673.5 | 662.3 | 662.3 |
| 52.5° | 391.7 | 501.6 | 602.3 | 617.5 | 639.9 | 647.0 | 638.9 | 631.8 | 619.5 | 614.5 | 610.4 |
| 55° | 363.2 | 449.7 | 540.2 | 570.7 | 594.1 | 603.3 | 588.0 | 580.9 | 562.6 | 559.6 | 557.5 |
| 57.5° | 357.1 | 374.4 | 483.3 | 521.9 | 550.4 | 549.4 | 540.2 | 527.0 | 511.7 | 508.7 | 507.7 |
| 60° | 327.6 | 270.6 | 422.2 | 468.0 | 497.5 | 494.4 | 486.3 | 474.1 | 459.8 | 457.8 | 455.8 |
| 62.5° | 297.1 | 196.4 | 353.0 | 404.9 | 446.6 | 445.6 | 438.5 | 420.2 | 410.0 | 404.9 | 400.9 |
| 65° | 252.3 | 164.8 | 251.3 | 336.7 | 396.8 | 398.8 | 383.5 | 370.3 | 359.1 | 353.0 | 352.0 |
| 67.5° | 192.3 | 134.3 | 169.9 | 280.8 | 349.0 | 346.9 | 327.6 | 321.5 | 307.2 | 304.2 | 298.1 |
| 70° | 142.5 | 89.6 | 118.0 | 227.9 | 302.1 | 297.1 | 281.8 | 274.7 | 261.5 | 254.3 | 250.2 |
| 72.5° | 118.0 | 72.2 | 86.5 | 177.0 | 254.3 | 248.2 | 235.0 | 226.8 | 215.7 | 209.6 | 205.5 |
| 75° | 95.6 | 76.3 | 66.1 | 131.2 | 206.5 | 202.4 | 190.3 | 182.1 | 172.9 | 164.8 | 165.9 |
| 77.5° | 70.2 | 71.2 | 52.9 | 96.6 | 163.8 | 157.7 | 150.5 | 140.4 | 136.3 | 128.2 | 128.2 |
| 80° | 52.9 | 56.0 | 39.7 | 66.1 | 118.0 | 118.0 | 111.9 | 104.8 | 97.6 | 93.6 | 93.6 |
| 82.5° | 35.6 | 35.6 | 29.5 | 41.7 | 80.4 | 77.3 | 73.2 | 71.2 | 67.1 | 65.1 | 65.1 |
| 85° | 16.2 | 20.3 | 18.3 | 25.4 | 43.7 | 45.8 | 45.8 | 43.7 | 42.7 | 40.7 | 41.7 |
| 87.5° | 5.1 | 9.2 | 11.2 | 14.2 | 22.4 | 23.4 | 24.4 | 24.4 | 24.4 | 25.4 | 25.4 |
| 90° | 3.2 | 5.8 | 8.3 | 8.9 | 14.1 | 20.9 | 24.3 | 21.6 | 16.2 | 12.2 | 12.2 |
| 92.5° | 12.8 | 34.6 | 56.4 | 61.8 | 86.9 | 120.4 | 137.1 | 120.1 | 86.2 | 60.8 | 58.4 |
| 95° | 30.7 | 70.6 | 110.5 | 120.4 | 213.8 | 338.3 | 400.6 | 357.5 | 271.3 | 206.6 | 199.3 |
| 97.5° | 53.1 | 88.3 | 123.5 | 132.3 | 288.1 | 495.7 | 599.5 | 572.3 | 517.7 | 476.9 | 462.9 |
| 100° | 70.5 | 102.3 | 134.2 | 142.2 | 315.1 | 545.5 | 660.7 | 662.7 | 666.7 | 669.7 | 653.0 |
| 102.5° | 85.2 | 115.0 | 144.7 | 152.2 | 327.5 | 561.2 | 678.1 | 712.8 | 782.2 | 834.3 | 820.0 |
| 105° | 110.2 | 135.4 | 160.5 | 166.9 | 336.6 | 562.9 | 676.1 | 754.0 | 909.7 | 1026.5 | 1018.9 |
| 107.5° | 135.8 | 159.3 | 182.8 | 188.6 | 338.3 | 537.8 | 637.6 | 746.3 | 963.5 | 1126.4 | 1128.3 |
| 110° | 153.1 | 174.3 | 195.5 | 200.8 | 335.7 | 515.7 | 605.6 | 727.0 | 969.9 | 1152.0 | 1160.0 |



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CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 112.5° | 170.1 | 190.3 | 210.4 | 215.5 | 335.9 | 496.3 | 576.5 | 700.8 | 949.3 | 1135.7 | 1147.9 |
| 115° | 195.7 | 214.3 | 232.9 | 237.6 | 339.0 | 474.1 | 541.6 | 661.4 | 900.7 | 1080.3 | 1097.2 |
| 117.5° | 221.0 | 237.9 | 254.9 | 259.1 | 345.3 | 460.2 | 517.6 | 625.6 | 841.7 | 1003.8 | 1022.6 |
| 120° | 235.7 | 251.6 | 267.6 | 271.6 | 350.4 | 455.5 | 508.0 | 606.7 | 804.1 | 952.2 | 970.5 |
| 122.5° | 250.2 | 266.3 | 282.4 | 286.4 | 357.7 | 453.0 | 500.6 | 589.4 | 767.2 | 900.6 | 918.6 |
| 125° | 272.3 | 286.9 | 301.5 | 305.2 | 367.7 | 450.9 | 492.6 | 568.1 | 719.1 | 832.4 | 849.0 |
| 127.5° | 290.1 | 304.9 | 319.8 | 323.5 | 377.6 | 449.8 | 485.9 | 550.7 | 680.4 | 777.6 | 791.6 |
| 130° | 299.8 | 315.7 | 331.6 | 335.6 | 384.8 | 450.5 | 483.3 | 541.1 | 656.5 | 743.1 | 756.0 |
| 132.5° | 309.7 | 325.6 | 341.6 | 345.6 | 390.7 | 450.9 | 481.0 | 532.7 | 636.0 | 713.6 | 725.2 |
| 135° | 324.5 | 339.0 | 353.5 | 357.1 | 397.2 | 450.5 | 477.2 | 520.5 | 607.0 | 671.9 | 681.9 |
| 137.5° | 339.5 | 353.9 | 368.2 | 371.8 | 406.7 | 453.3 | 476.6 | 513.1 | 586.3 | 641.2 | 649.3 |
| 140° | 352.0 | 365.2 | 378.5 | 381.8 | 412.6 | 453.8 | 474.3 | 505.9 | 569.1 | 616.5 | 624.2 |
| 142.5° | 361.6 | 373.8 | 386.1 | 389.2 | 417.6 | 455.4 | 474.3 | 502.0 | 557.6 | 599.2 | 605.8 |
| 145° | 376.3 | 387.0 | 397.6 | 400.3 | 424.0 | 455.5 | 471.2 | 493.9 | 539.2 | 573.3 | 578.3 |
| 147.5° | 391.1 | 401.5 | 411.8 | 414.4 | 433.4 | 458.5 | 471.2 | 489.0 | 524.8 | 551.6 | 555.7 |
| 150° | 400.6 | 410.0 | 419.4 | 421.8 | 438.3 | 460.2 | 471.2 | 486.3 | 516.4 | 539.0 | 542.3 |
| 152.5° | 410.6 | 417.6 | 424.8 | 426.6 | 441.4 | 461.2 | 471.2 | 484.0 | 509.7 | 529.1 | 531.6 |
| 155° | 425.3 | 430.6 | 435.9 | 437.2 | 448.5 | 463.6 | 471.2 | 481.4 | 501.9 | 517.2 | 518.9 |
| 157.5° | 436.2 | 441.4 | 446.4 | 447.8 | 455.5 | 465.9 | 471.2 | 479.1 | 495.0 | 507.0 | 508.1 |
| 160° | 443.6 | 447.6 | 451.5 | 452.5 | 458.8 | 467.0 | 471.2 | 478.0 | 491.6 | 501.9 | 502.6 |
| 162.5° | 450.9 | 453.9 | 456.9 | 457.7 | 462.2 | 468.2 | 471.2 | 476.9 | 488.4 | 497.0 | 497.7 |
| 165° | 458.9 | 461.6 | 464.3 | 465.0 | 467.1 | 469.8 | 471.2 | 475.3 | 483.6 | 489.7 | 490.4 |
| 167.5° | 466.3 | 467.6 | 468.9 | 469.2 | 470.9 | 473.2 | 474.3 | 477.0 | 482.4 | 486.5 | 486.8 |
| 170° | 471.2 | 472.4 | 473.7 | 474.0 | 474.1 | 474.2 | 474.3 | 477.0 | 482.4 | 486.5 | 486.5 |
| 172.5° | 473.7 | 474.0 | 474.2 | 474.3 | 474.3 | 474.3 | 474.3 | 476.5 | 480.7 | 483.9 | 483.7 |
| 175° | 477.2 | 477.2 | 477.2 | 477.2 | 476.2 | 474.9 | 474.3 | 475.7 | 478.4 | 480.4 | 480.4 |
| 177.5° | 477.2 | 477.2 | 477.2 | 477.2 | 476.5 | 475.5 | 474.9 | 476.0 | 478.2 | 479.8 | 479.5 |
| 180° | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 |



TEST NUMBER: P935222

CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 |
| 2.5° | 1102.8 | 1099.8 | 1102.8 | 1100.8 | 1101.8 | 1098.7 | 1089.6 | 1086.5 | 1089.6 | 1092.6 | 1092.6 |
| 5° | 1116.0 | 1114.0 | 1116.0 | 1116.0 | 1115.0 | 1113.0 | 1102.8 | 1100.8 | 1102.8 | 1103.8 | 1101.8 |
| 7.5° | 1120.1 | 1117.0 | 1120.1 | 1118.0 | 1118.0 | 1116.0 | 1105.9 | 1103.8 | 1104.9 | 1107.9 | 1104.9 |
| 10° | 1120.1 | 1117.0 | 1120.1 | 1119.1 | 1118.0 | 1116.0 | 1105.9 | 1101.8 | 1101.8 | 1104.9 | 1101.8 |
| 12.5° | 1115.0 | 1113.0 | 1115.0 | 1113.0 | 1113.0 | 1111.0 | 1100.8 | 1096.7 | 1097.7 | 1098.7 | 1094.7 |
| 15° | 1106.9 | 1103.8 | 1106.9 | 1104.9 | 1105.9 | 1102.8 | 1091.6 | 1087.5 | 1087.5 | 1089.6 | 1082.5 |
| 17.5° | 1094.7 | 1090.6 | 1094.7 | 1093.6 | 1092.6 | 1090.6 | 1080.5 | 1076.4 | 1075.3 | 1076.4 | 1071.3 |
| 20° | 1080.5 | 1077.4 | 1080.5 | 1079.4 | 1079.4 | 1075.3 | 1065.1 | 1060.1 | 1060.1 | 1060.1 | 1055.0 |
| 22.5° | 1058.1 | 1055.0 | 1058.1 | 1060.1 | 1060.1 | 1059.1 | 1049.9 | 1042.8 | 1040.7 | 1040.7 | 1034.6 |
| 25° | 1032.6 | 1029.6 | 1032.6 | 1032.6 | 1031.6 | 1032.6 | 1029.6 | 1025.5 | 1022.4 | 1019.4 | 1013.3 |
| 27.5° | 1008.2 | 1006.2 | 1008.2 | 1006.2 | 1008.2 | 1005.2 | 1004.2 | 1003.1 | 999.1 | 996.0 | 987.8 |
| 30° | 983.8 | 981.8 | 983.8 | 981.8 | 979.7 | 977.7 | 972.6 | 970.6 | 974.6 | 972.6 | 959.3 |
| 32.5° | 953.3 | 951.3 | 953.3 | 953.3 | 951.3 | 951.3 | 943.1 | 940.0 | 941.0 | 947.2 | 934.9 |
| 35° | 921.7 | 918.7 | 921.7 | 920.7 | 921.7 | 918.7 | 913.6 | 912.5 | 908.5 | 915.6 | 906.4 |
| 37.5° | 885.1 | 882.0 | 885.1 | 885.1 | 885.1 | 887.1 | 883.0 | 880.0 | 873.9 | 883.0 | 876.0 |
| 40° | 847.5 | 843.4 | 847.5 | 846.5 | 847.5 | 849.5 | 847.5 | 845.4 | 839.3 | 846.5 | 840.3 |
| 42.5° | 804.7 | 803.7 | 804.7 | 805.7 | 805.7 | 809.8 | 812.9 | 808.8 | 806.7 | 801.6 | 805.7 |
| 45° | 758.9 | 756.9 | 758.9 | 761.0 | 762.0 | 764.0 | 773.2 | 773.2 | 770.2 | 762.0 | 768.1 |
| 47.5° | 710.1 | 705.0 | 710.1 | 716.3 | 716.3 | 719.3 | 728.4 | 735.6 | 730.4 | 720.3 | 723.3 |
| 50° | 658.2 | 659.3 | 658.2 | 662.3 | 662.3 | 673.5 | 680.6 | 687.8 | 692.8 | 680.6 | 666.4 |
| 52.5° | 607.4 | 606.4 | 607.4 | 610.4 | 614.5 | 619.5 | 631.8 | 638.9 | 647.0 | 639.9 | 617.5 |
| 55° | 556.5 | 558.6 | 556.5 | 557.5 | 559.6 | 562.6 | 580.9 | 588.0 | 603.3 | 594.1 | 570.7 |
| 57.5° | 505.7 | 502.6 | 505.7 | 507.7 | 508.7 | 511.7 | 527.0 | 540.2 | 549.4 | 550.4 | 521.9 |
| 60° | 446.6 | 442.5 | 446.6 | 455.8 | 457.8 | 459.8 | 474.1 | 486.3 | 494.4 | 497.5 | 468.0 |
| 62.5° | 394.7 | 387.6 | 394.7 | 400.9 | 404.9 | 410.0 | 420.2 | 438.5 | 445.6 | 446.6 | 404.9 |
| 65° | 339.8 | 336.7 | 339.8 | 352.0 | 353.0 | 359.1 | 370.3 | 383.5 | 398.8 | 396.8 | 336.7 |
| 67.5° | 290.0 | 290.0 | 290.0 | 298.1 | 304.2 | 307.2 | 321.5 | 327.6 | 346.9 | 349.0 | 280.8 |
| 70° | 244.2 | 243.2 | 244.2 | 250.2 | 254.3 | 261.5 | 274.7 | 281.8 | 297.1 | 302.1 | 227.9 |
| 72.5° | 200.4 | 199.4 | 200.4 | 205.5 | 209.6 | 215.7 | 226.8 | 235.0 | 248.2 | 254.3 | 177.0 |
| 75° | 161.8 | 159.7 | 161.8 | 165.9 | 164.8 | 172.9 | 182.1 | 190.3 | 202.4 | 206.5 | 131.2 |
| 77.5° | 124.1 | 124.1 | 124.1 | 128.2 | 128.2 | 136.3 | 140.4 | 150.5 | 157.7 | 163.8 | 96.6 |
| 80° | 92.6 | 91.6 | 92.6 | 93.6 | 93.6 | 97.6 | 104.8 | 111.9 | 118.0 | 118.0 | 66.1 |
| 82.5° | 65.1 | 63.1 | 65.1 | 65.1 | 65.1 | 67.1 | 71.2 | 73.2 | 77.3 | 80.4 | 41.7 |
| 85° | 40.7 | 40.7 | 40.7 | 41.7 | 40.7 | 42.7 | 43.7 | 45.8 | 45.8 | 43.7 | 25.4 |
| 87.5° | 26.5 | 25.4 | 26.5 | 25.4 | 25.4 | 24.4 | 24.4 | 24.4 | 23.4 | 22.4 | 14.2 |
| 90° | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 16.2 | 21.6 | 24.3 | 20.9 | 14.1 | 8.9 |
| 92.5° | 48.7 | 39.0 | 48.7 | 58.4 | 60.8 | 86.2 | 120.1 | 137.1 | 120.4 | 86.9 | 61.8 |
| 95° | 169.9 | 140.6 | 169.9 | 199.3 | 206.6 | 271.3 | 357.5 | 400.6 | 338.3 | 213.8 | 120.4 |
| 97.5° | 407.1 | 351.4 | 407.1 | 462.9 | 476.9 | 517.7 | 572.3 | 599.5 | 495.7 | 288.1 | 132.3 |
| 100° | 586.6 | 520.1 | 586.6 | 653.0 | 669.7 | 666.7 | 662.7 | 660.7 | 545.5 | 315.1 | 142.2 |
| 102.5° | 763.1 | 706.2 | 763.1 | 820.0 | 834.3 | 782.2 | 712.8 | 678.1 | 561.2 | 327.5 | 152.2 |
| 105° | 988.2 | 957.6 | 988.2 | 1018.9 | 1026.5 | 909.7 | 754.0 | 676.1 | 562.9 | 336.6 | 166.9 |
| 107.5° | 1135.7 | 1143.1 | 1135.7 | 1128.3 | 1126.4 | 963.5 | 746.3 | 637.6 | 537.8 | 338.3 | 188.6 |
| 110° | 1191.9 | 1223.8 | 1191.9 | 1160.0 | 1152.0 | 969.9 | 727.0 | 605.6 | 515.7 | 335.7 | 200.8 |



TEST NUMBER: P935222

CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 1196.9 | 1245.9 | 1196.9 | 1147.9 | 1135.7 | 949.3 | 700.8 | 576.5 | 496.3 | 335.9 | 215.5 |
| 115° | 1165.2 | 1233.1 | 1165.2 | 1097.2 | 1080.3 | 900.7 | 661.4 | 541.6 | 474.1 | 339.0 | 237.6 |
| 117.5° | 1097.9 | 1173.2 | 1097.9 | 1022.6 | 1003.8 | 841.7 | 625.6 | 517.6 | 460.2 | 345.3 | 259.1 |
| 120° | 1043.7 | 1116.8 | 1043.7 | 970.5 | 952.2 | 804.1 | 606.7 | 508.0 | 455.5 | 350.4 | 271.6 |
| 122.5° | 990.8 | 1063.0 | 990.8 | 918.6 | 900.6 | 767.2 | 589.4 | 500.6 | 453.0 | 357.7 | 286.4 |
| 125° | 915.5 | 982.0 | 915.5 | 849.0 | 832.4 | 719.1 | 568.1 | 492.6 | 450.9 | 367.7 | 305.2 |
| 127.5° | 847.8 | 903.8 | 847.8 | 791.6 | 777.6 | 680.4 | 550.7 | 485.9 | 449.8 | 377.6 | 323.5 |
| 130° | 807.8 | 859.6 | 807.8 | 756.0 | 743.1 | 656.5 | 541.1 | 483.3 | 450.5 | 384.8 | 335.6 |
| 132.5° | 771.5 | 818.0 | 771.5 | 725.2 | 713.6 | 636.0 | 532.7 | 481.0 | 450.9 | 390.7 | 345.6 |
| 135° | 721.9 | 761.9 | 721.9 | 681.9 | 671.9 | 607.0 | 520.5 | 477.2 | 450.5 | 397.2 | 357.1 |
| 137.5° | 682.1 | 714.9 | 682.1 | 649.3 | 641.2 | 586.3 | 513.1 | 476.6 | 453.3 | 406.7 | 371.8 |
| 140° | 654.8 | 685.4 | 654.8 | 624.2 | 616.5 | 569.1 | 505.9 | 474.3 | 453.8 | 412.6 | 381.8 |
| 142.5° | 632.2 | 658.5 | 632.2 | 605.8 | 599.2 | 557.6 | 502.0 | 474.3 | 455.4 | 417.6 | 389.2 |
| 145° | 598.2 | 618.2 | 598.2 | 578.3 | 573.3 | 539.2 | 493.9 | 471.2 | 455.5 | 424.0 | 400.3 |
| 147.5° | 572.2 | 588.7 | 572.2 | 555.7 | 551.6 | 524.8 | 489.0 | 471.2 | 458.5 | 433.4 | 414.4 |
| 150° | 555.7 | 569.1 | 555.7 | 542.3 | 539.0 | 516.4 | 486.3 | 471.2 | 460.2 | 438.3 | 421.8 |
| 152.5° | 541.7 | 551.9 | 541.7 | 531.6 | 529.1 | 509.7 | 484.0 | 471.2 | 461.2 | 441.4 | 426.6 |
| 155° | 525.6 | 532.3 | 525.6 | 518.9 | 517.2 | 501.9 | 481.4 | 471.2 | 463.6 | 448.5 | 437.2 |
| 157.5° | 512.9 | 517.6 | 512.9 | 508.1 | 507.0 | 495.0 | 479.1 | 471.2 | 465.9 | 455.5 | 447.8 |
| 160° | 505.3 | 508.0 | 505.3 | 502.6 | 501.9 | 491.6 | 478.0 | 471.2 | 467.0 | 458.8 | 452.5 |
| 162.5° | 500.3 | 502.8 | 500.3 | 497.7 | 497.0 | 488.4 | 476.9 | 471.2 | 468.2 | 462.2 | 457.7 |
| 165° | 493.1 | 495.8 | 493.1 | 490.4 | 489.7 | 483.6 | 475.3 | 471.2 | 469.8 | 467.1 | 465.0 |
| 167.5° | 487.9 | 489.0 | 487.9 | 486.8 | 486.5 | 482.4 | 477.0 | 474.3 | 473.2 | 470.9 | 469.2 |
| 170° | 486.5 | 486.5 | 486.5 | 486.5 | 486.5 | 482.4 | 477.0 | 474.3 | 474.2 | 474.1 | 474.0 |
| 172.5° | 482.7 | 481.7 | 482.7 | 483.7 | 483.9 | 480.7 | 476.5 | 474.3 | 474.3 | 474.3 | 474.3 |
| 175° | 480.4 | 480.4 | 480.4 | 480.4 | 480.4 | 478.4 | 475.7 | 474.3 | 474.9 | 476.2 | 477.2 |
| 177.5° | 478.4 | 477.2 | 478.4 | 479.5 | 479.8 | 478.2 | 476.0 | 474.9 | 475.5 | 476.5 | 477.2 |
| 180° | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 |



TEST NUMBER: P935222

CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 |
| 2.5° | 1090.6 | 1084.5 | 1084.5 | 1074.3 | 1070.2 | 1067.2 | 1062.1 | 1046.9 | 1042.8 | 1038.7 | 1044.8 |
| 5° | 1099.8 | 1088.5 | 1080.5 | 1062.1 | 1046.9 | 1040.7 | 1021.4 | 984.8 | 960.3 | 942.1 | 931.9 |
| 7.5° | 1101.8 | 1087.5 | 1072.3 | 1043.8 | 1007.2 | 990.9 | 931.9 | 864.8 | 846.5 | 830.1 | 820.0 |
| 10° | 1099.8 | 1083.5 | 1062.1 | 1019.4 | 932.9 | 904.4 | 845.4 | 801.6 | 790.5 | 787.4 | 790.5 |
| 12.5° | 1092.6 | 1077.4 | 1047.9 | 976.7 | 855.6 | 836.3 | 801.6 | 776.2 | 774.2 | 779.3 | 806.7 |
| 15° | 1080.5 | 1066.2 | 1031.6 | 919.7 | 812.9 | 798.6 | 774.2 | 765.1 | 776.2 | 811.8 | 894.3 |
| 17.5° | 1068.2 | 1052.0 | 1009.2 | 863.7 | 780.3 | 770.2 | 752.8 | 771.2 | 834.2 | 882.0 | 909.5 |
| 20° | 1052.0 | 1032.6 | 983.8 | 823.1 | 756.9 | 747.7 | 739.6 | 822.1 | 869.9 | 887.1 | 902.4 |
| 22.5° | 1032.6 | 1012.2 | 949.2 | 794.6 | 732.5 | 725.3 | 730.4 | 850.5 | 869.9 | 882.0 | 895.3 |
| 25° | 1007.2 | 989.9 | 908.5 | 772.2 | 713.2 | 705.0 | 724.3 | 847.5 | 858.6 | 861.7 | 888.1 |
| 27.5° | 983.8 | 961.4 | 865.8 | 751.8 | 689.8 | 686.7 | 729.4 | 834.2 | 842.4 | 845.4 | 873.9 |
| 30° | 955.3 | 921.7 | 818.0 | 730.4 | 665.4 | 664.4 | 730.4 | 818.0 | 815.9 | 824.1 | 852.5 |
| 32.5° | 925.8 | 862.7 | 764.0 | 704.0 | 641.9 | 640.9 | 723.3 | 793.6 | 791.5 | 802.7 | 824.1 |
| 35° | 898.4 | 817.0 | 690.8 | 673.5 | 612.5 | 613.5 | 706.0 | 765.1 | 766.1 | 776.2 | 789.5 |
| 37.5° | 869.9 | 777.2 | 610.4 | 639.9 | 584.0 | 584.0 | 682.6 | 738.6 | 736.6 | 739.6 | 757.9 |
| 40° | 836.3 | 715.2 | 539.2 | 596.1 | 557.5 | 554.5 | 654.2 | 710.1 | 703.0 | 702.0 | 727.4 |
| 42.5° | 800.6 | 647.0 | 486.3 | 538.2 | 527.0 | 522.9 | 619.5 | 675.5 | 662.3 | 665.4 | 697.9 |
| 45° | 762.0 | 628.7 | 445.6 | 454.8 | 495.4 | 492.4 | 581.9 | 635.9 | 626.7 | 634.9 | 668.4 |
| 47.5° | 723.3 | 592.1 | 432.4 | 377.5 | 461.8 | 460.8 | 540.2 | 597.2 | 592.1 | 600.2 | 635.9 |
| 50° | 670.4 | 551.4 | 431.4 | 323.6 | 424.3 | 428.3 | 490.3 | 559.6 | 559.6 | 566.6 | 604.3 |
| 52.5° | 602.3 | 501.6 | 391.7 | 293.0 | 380.5 | 392.7 | 446.6 | 527.0 | 529.0 | 536.2 | 569.7 |
| 55° | 540.2 | 449.7 | 363.2 | 269.6 | 328.6 | 355.0 | 403.9 | 493.4 | 497.5 | 504.6 | 535.2 |
| 57.5° | 483.3 | 374.4 | 357.1 | 242.2 | 280.8 | 306.2 | 366.2 | 460.8 | 462.9 | 469.0 | 498.5 |
| 60° | 422.2 | 270.6 | 327.6 | 212.6 | 239.1 | 258.4 | 331.6 | 422.2 | 429.4 | 433.4 | 458.8 |
| 62.5° | 353.0 | 196.4 | 297.1 | 192.3 | 218.8 | 222.8 | 303.1 | 385.5 | 394.7 | 397.8 | 413.0 |
| 65° | 251.3 | 164.8 | 252.3 | 175.0 | 197.4 | 198.4 | 272.7 | 348.0 | 356.0 | 361.1 | 372.4 |
| 67.5° | 169.9 | 134.3 | 192.3 | 158.7 | 181.1 | 182.1 | 243.2 | 304.2 | 315.4 | 319.5 | 326.6 |
| 70° | 118.0 | 89.6 | 142.5 | 141.4 | 162.8 | 164.8 | 211.6 | 264.5 | 274.7 | 277.7 | 281.8 |
| 72.5° | 86.5 | 72.2 | 118.0 | 127.2 | 143.5 | 145.5 | 179.0 | 219.8 | 229.9 | 233.0 | 235.0 |
| 75° | 66.1 | 76.3 | 95.6 | 110.9 | 122.0 | 123.1 | 146.5 | 179.0 | 186.2 | 188.2 | 189.2 |
| 77.5° | 52.9 | 71.2 | 70.2 | 89.6 | 99.7 | 97.6 | 115.0 | 138.4 | 144.5 | 144.5 | 144.5 |
| 80° | 39.7 | 56.0 | 52.9 | 64.1 | 73.2 | 71.2 | 82.4 | 98.7 | 100.7 | 102.7 | 101.7 |
| 82.5° | 29.5 | 35.6 | 35.6 | 40.7 | 48.8 | 46.8 | 54.9 | 64.1 | 64.1 | 64.1 | 66.1 |
| 85° | 18.3 | 20.3 | 16.2 | 21.3 | 27.5 | 26.5 | 30.5 | 34.6 | 35.6 | 35.6 | 33.6 |
| 87.5° | 11.2 | 9.2 | 5.1 | 8.2 | 12.2 | 12.2 | 14.2 | 15.2 | 14.2 | 14.2 | 14.2 |
| 90° | 8.3 | 5.8 | 3.2 | 5.8 | 8.3 | 8.9 | 14.1 | 20.9 | 24.3 | 21.6 | 16.2 |
| 92.5° | 56.4 | 34.6 | 12.8 | 34.6 | 56.4 | 61.8 | 86.9 | 120.4 | 137.1 | 120.1 | 86.2 |
| 95° | 110.5 | 70.6 | 30.7 | 70.6 | 110.5 | 120.4 | 213.8 | 338.3 | 400.6 | 357.5 | 271.3 |
| 97.5° | 123.5 | 88.3 | 53.1 | 88.3 | 123.5 | 132.3 | 288.1 | 495.7 | 599.5 | 572.3 | 517.7 |
| 100° | 134.2 | 102.3 | 70.5 | 102.3 | 134.2 | 142.2 | 315.1 | 545.5 | 660.7 | 662.7 | 666.7 |
| 102.5° | 144.7 | 115.0 | 85.2 | 115.0 | 144.7 | 152.2 | 327.5 | 561.2 | 678.1 | 712.8 | 782.2 |
| 105° | 160.5 | 135.4 | 110.2 | 135.4 | 160.5 | 166.9 | 336.6 | 562.9 | 676.1 | 754.0 | 909.7 |
| 107.5° | 182.8 | 159.3 | 135.8 | 159.3 | 182.8 | 188.6 | 338.3 | 537.8 | 637.6 | 746.3 | 963.5 |
| 110° | 195.5 | 174.3 | 153.1 | 174.3 | 195.5 | 200.8 | 335.7 | 515.7 | 605.6 | 727.0 | 969.9 |



TEST NUMBER: P935222

CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 210.4 | 190.3 | 170.1 | 190.3 | 210.4 | 215.5 | 335.9 | 496.3 | 576.5 | 700.8 | 949.3 |
| 115° | 232.9 | 214.3 | 195.7 | 214.3 | 232.9 | 237.6 | 339.0 | 474.1 | 541.6 | 661.4 | 900.7 |
| 117.5° | 254.9 | 237.9 | 221.0 | 237.9 | 254.9 | 259.1 | 345.3 | 460.2 | 517.6 | 625.6 | 841.7 |
| 120° | 267.6 | 251.6 | 235.7 | 251.6 | 267.6 | 271.6 | 350.4 | 455.5 | 508.0 | 606.7 | 804.1 |
| 122.5° | 282.4 | 266.3 | 250.2 | 266.3 | 282.4 | 286.4 | 357.7 | 453.0 | 500.6 | 589.4 | 767.2 |
| 125° | 301.5 | 286.9 | 272.3 | 286.9 | 301.5 | 305.2 | 367.7 | 450.9 | 492.6 | 568.1 | 719.1 |
| 127.5° | 319.8 | 304.9 | 290.1 | 304.9 | 319.8 | 323.5 | 377.6 | 449.8 | 485.9 | 550.7 | 680.4 |
| 130° | 331.6 | 315.7 | 299.8 | 315.7 | 331.6 | 335.6 | 384.8 | 450.5 | 483.3 | 541.1 | 656.5 |
| 132.5° | 341.6 | 325.6 | 309.7 | 325.6 | 341.6 | 345.6 | 390.7 | 450.9 | 481.0 | 532.7 | 636.0 |
| 135° | 353.5 | 339.0 | 324.5 | 339.0 | 353.5 | 357.1 | 397.2 | 450.5 | 477.2 | 520.5 | 607.0 |
| 137.5° | 368.2 | 353.9 | 339.5 | 353.9 | 368.2 | 371.8 | 406.7 | 453.3 | 476.6 | 513.1 | 586.3 |
| 140° | 378.5 | 365.2 | 352.0 | 365.2 | 378.5 | 381.8 | 412.6 | 453.8 | 474.3 | 505.9 | 569.1 |
| 142.5° | 386.1 | 373.8 | 361.6 | 373.8 | 386.1 | 389.2 | 417.6 | 455.4 | 474.3 | 502.0 | 557.6 |
| 145° | 397.6 | 387.0 | 376.3 | 387.0 | 397.6 | 400.3 | 424.0 | 455.5 | 471.2 | 493.9 | 539.2 |
| 147.5° | 411.8 | 401.5 | 391.1 | 401.5 | 411.8 | 414.4 | 433.4 | 458.5 | 471.2 | 489.0 | 524.8 |
| 150° | 419.4 | 410.0 | 400.6 | 410.0 | 419.4 | 421.8 | 438.3 | 460.2 | 471.2 | 486.3 | 516.4 |
| 152.5° | 424.8 | 417.6 | 410.6 | 417.6 | 424.8 | 426.6 | 441.4 | 461.2 | 471.2 | 484.0 | 509.7 |
| 155° | 435.9 | 430.6 | 425.3 | 430.6 | 435.9 | 437.2 | 448.5 | 463.6 | 471.2 | 481.4 | 501.9 |
| 157.5° | 446.4 | 441.4 | 436.2 | 441.4 | 446.4 | 447.8 | 455.5 | 465.9 | 471.2 | 479.1 | 495.0 |
| 160° | 451.5 | 447.6 | 443.6 | 447.6 | 451.5 | 452.5 | 458.8 | 467.0 | 471.2 | 478.0 | 491.6 |
| 162.5° | 456.9 | 453.9 | 450.9 | 453.9 | 456.9 | 457.7 | 462.2 | 468.2 | 471.2 | 476.9 | 488.4 |
| 165° | 464.3 | 461.6 | 458.9 | 461.6 | 464.3 | 465.0 | 467.1 | 469.8 | 471.2 | 475.3 | 483.6 |
| 167.5° | 468.9 | 467.6 | 466.3 | 467.6 | 468.9 | 469.2 | 470.9 | 473.2 | 474.3 | 477.0 | 482.4 |
| 170° | 473.7 | 472.4 | 471.2 | 472.4 | 473.7 | 474.0 | 474.1 | 474.2 | 474.3 | 477.0 | 482.4 |
| 172.5° | 474.2 | 474.0 | 473.7 | 474.0 | 474.2 | 474.3 | 474.3 | 474.3 | 474.3 | 476.5 | 480.7 |
| 175° | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 476.2 | 474.9 | 474.3 | 475.7 | 478.4 |
| 177.5° | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 476.5 | 475.5 | 474.9 | 476.0 | 478.2 |
| 180° | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 |



TEST NUMBER: P935222

CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 |
| 2.5° | 1037.7 | 1034.6 | 1038.7 | 1027.5 | 1038.7 | 1034.6 | 1037.7 | 1044.8 | 1038.7 | 1042.8 | 1046.9 |
| 5° | 910.5 | 905.4 | 889.2 | 876.0 | 889.2 | 905.4 | 910.5 | 931.9 | 942.1 | 960.3 | 984.8 |
| 7.5° | 813.9 | 809.8 | 805.7 | 797.6 | 805.7 | 809.8 | 813.9 | 820.0 | 830.1 | 846.5 | 864.8 |
| 10° | 792.5 | 793.6 | 799.6 | 798.6 | 799.6 | 793.6 | 792.5 | 790.5 | 787.4 | 790.5 | 801.6 |
| 12.5° | 847.5 | 856.6 | 890.2 | 888.1 | 890.2 | 856.6 | 847.5 | 806.7 | 779.3 | 774.2 | 776.2 |
| 15° | 910.5 | 913.6 | 920.7 | 921.7 | 920.7 | 913.6 | 910.5 | 894.3 | 811.8 | 776.2 | 765.1 |
| 17.5° | 916.6 | 917.7 | 922.8 | 922.8 | 922.8 | 917.7 | 916.6 | 909.5 | 882.0 | 834.2 | 771.2 |
| 20° | 911.5 | 913.6 | 923.8 | 925.8 | 923.8 | 913.6 | 911.5 | 902.4 | 887.1 | 869.9 | 822.1 |
| 22.5° | 909.5 | 913.6 | 921.7 | 920.7 | 921.7 | 913.6 | 909.5 | 895.3 | 882.0 | 869.9 | 850.5 |
| 25° | 899.4 | 899.4 | 900.4 | 901.4 | 900.4 | 899.4 | 899.4 | 888.1 | 861.7 | 858.6 | 847.5 |
| 27.5° | 878.0 | 880.0 | 886.1 | 885.1 | 886.1 | 880.0 | 878.0 | 873.9 | 845.4 | 842.4 | 834.2 |
| 30° | 858.6 | 856.6 | 851.5 | 847.5 | 851.5 | 856.6 | 858.6 | 852.5 | 824.1 | 815.9 | 818.0 |
| 32.5° | 826.1 | 821.0 | 815.9 | 812.9 | 815.9 | 821.0 | 826.1 | 824.1 | 802.7 | 791.5 | 793.6 |
| 35° | 787.4 | 788.5 | 787.4 | 784.4 | 787.4 | 788.5 | 787.4 | 789.5 | 776.2 | 766.1 | 765.1 |
| 37.5° | 760.0 | 762.0 | 761.0 | 756.9 | 761.0 | 762.0 | 760.0 | 757.9 | 739.6 | 736.6 | 738.6 |
| 40° | 731.5 | 732.5 | 731.5 | 728.4 | 731.5 | 732.5 | 731.5 | 727.4 | 702.0 | 703.0 | 710.1 |
| 42.5° | 704.0 | 703.0 | 699.9 | 697.9 | 699.9 | 703.0 | 704.0 | 697.9 | 665.4 | 662.3 | 675.5 |
| 45° | 672.4 | 673.5 | 667.4 | 664.4 | 667.4 | 673.5 | 672.4 | 668.4 | 634.9 | 626.7 | 635.9 |
| 47.5° | 640.9 | 640.9 | 635.9 | 632.8 | 635.9 | 640.9 | 640.9 | 635.9 | 600.2 | 592.1 | 597.2 |
| 50° | 607.4 | 606.4 | 599.2 | 598.2 | 599.2 | 606.4 | 607.4 | 604.3 | 566.6 | 559.6 | 559.6 |
| 52.5° | 568.7 | 568.7 | 569.7 | 571.7 | 569.7 | 568.7 | 568.7 | 569.7 | 536.2 | 529.0 | 527.0 |
| 55° | 535.2 | 536.2 | 543.2 | 545.3 | 543.2 | 536.2 | 535.2 | 535.2 | 504.6 | 497.5 | 493.4 |
| 57.5° | 500.5 | 500.5 | 505.7 | 505.7 | 505.7 | 500.5 | 500.5 | 498.5 | 469.0 | 462.9 | 460.8 |
| 60° | 460.8 | 462.9 | 466.9 | 465.9 | 466.9 | 462.9 | 460.8 | 458.8 | 433.4 | 429.4 | 422.2 |
| 62.5° | 419.1 | 421.2 | 422.2 | 420.2 | 422.2 | 421.2 | 419.1 | 413.0 | 397.8 | 394.7 | 385.5 |
| 65° | 375.4 | 377.5 | 378.5 | 376.5 | 378.5 | 377.5 | 375.4 | 372.4 | 361.1 | 356.0 | 348.0 |
| 67.5° | 330.6 | 329.6 | 328.6 | 332.6 | 328.6 | 329.6 | 330.6 | 326.6 | 319.5 | 315.4 | 304.2 |
| 70° | 284.8 | 284.8 | 283.8 | 285.9 | 283.8 | 284.8 | 284.8 | 281.8 | 277.7 | 274.7 | 264.5 |
| 72.5° | 236.0 | 235.0 | 239.1 | 236.0 | 239.1 | 235.0 | 236.0 | 235.0 | 233.0 | 229.9 | 219.8 |
| 75° | 188.2 | 190.3 | 188.2 | 191.3 | 188.2 | 190.3 | 188.2 | 189.2 | 188.2 | 186.2 | 179.0 |
| 77.5° | 143.5 | 145.5 | 143.5 | 143.5 | 143.5 | 145.5 | 143.5 | 144.5 | 144.5 | 144.5 | 138.4 |
| 80° | 101.7 | 100.7 | 100.7 | 99.7 | 100.7 | 100.7 | 101.7 | 101.7 | 102.7 | 100.7 | 98.7 |
| 82.5° | 65.1 | 64.1 | 64.1 | 66.1 | 64.1 | 64.1 | 65.1 | 66.1 | 64.1 | 64.1 | 64.1 |
| 85° | 35.6 | 36.7 | 34.6 | 34.6 | 34.6 | 36.7 | 35.6 | 33.6 | 35.6 | 35.6 | 34.6 |
| 87.5° | 13.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 13.2 | 14.2 | 14.2 | 14.2 | 15.2 |
| 90° | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 16.2 | 21.6 | 24.3 | 20.9 |
| 92.5° | 60.8 | 58.4 | 48.7 | 39.0 | 48.7 | 58.4 | 60.8 | 86.2 | 120.1 | 137.1 | 120.4 |
| 95° | 206.6 | 199.3 | 169.9 | 140.6 | 169.9 | 199.3 | 206.6 | 271.3 | 357.5 | 400.6 | 338.3 |
| 97.5° | 476.9 | 462.9 | 407.1 | 351.4 | 407.1 | 462.9 | 476.9 | 517.7 | 572.3 | 599.5 | 495.7 |
| 100° | 669.7 | 653.0 | 586.6 | 520.1 | 586.6 | 653.0 | 669.7 | 666.7 | 662.7 | 660.7 | 545.5 |
| 102.5° | 834.3 | 820.0 | 763.1 | 706.2 | 763.1 | 820.0 | 834.3 | 782.2 | 712.8 | 678.1 | 561.2 |
| 105° | 1026.5 | 1018.9 | 988.2 | 957.6 | 988.2 | 1018.9 | 1026.5 | 909.7 | 754.0 | 676.1 | 562.9 |
| 107.5° | 1126.4 | 1128.3 | 1135.7 | 1143.1 | 1135.7 | 1128.3 | 1126.4 | 963.5 | 746.3 | 637.6 | 537.8 |
| 110° | 1152.0 | 1160.0 | 1191.9 | 1223.8 | 1191.9 | 1160.0 | 1152.0 | 969.9 | 727.0 | 605.6 | 515.7 |



TEST NUMBER: P935222

CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 112.5° | 1135.7 | 1147.9 | 1196.9 | 1245.9 | 1196.9 | 1147.9 | 1135.7 | 949.3 | 700.8 | 576.5 | 496.3 |
| 115° | 1080.3 | 1097.2 | 1165.2 | 1233.1 | 1165.2 | 1097.2 | 1080.3 | 900.7 | 661.4 | 541.6 | 474.1 |
| 117.5° | 1003.8 | 1022.6 | 1097.9 | 1173.2 | 1097.9 | 1022.6 | 1003.8 | 841.7 | 625.6 | 517.6 | 460.2 |
| 120° | 952.2 | 970.5 | 1043.7 | 1116.8 | 1043.7 | 970.5 | 952.2 | 804.1 | 606.7 | 508.0 | 455.5 |
| 122.5° | 900.6 | 918.6 | 990.8 | 1063.0 | 990.8 | 918.6 | 900.6 | 767.2 | 589.4 | 500.6 | 453.0 |
| 125° | 832.4 | 849.0 | 915.5 | 982.0 | 915.5 | 849.0 | 832.4 | 719.1 | 568.1 | 492.6 | 450.9 |
| 127.5° | 777.6 | 791.6 | 847.8 | 903.8 | 847.8 | 791.6 | 777.6 | 680.4 | 550.7 | 485.9 | 449.8 |
| 130° | 743.1 | 756.0 | 807.8 | 859.6 | 807.8 | 756.0 | 743.1 | 656.5 | 541.1 | 483.3 | 450.5 |
| 132.5° | 713.6 | 725.2 | 771.5 | 818.0 | 771.5 | 725.2 | 713.6 | 636.0 | 532.7 | 481.0 | 450.9 |
| 135° | 671.9 | 681.9 | 721.9 | 761.9 | 721.9 | 681.9 | 671.9 | 607.0 | 520.5 | 477.2 | 450.5 |
| 137.5° | 641.2 | 649.3 | 682.1 | 714.9 | 682.1 | 649.3 | 641.2 | 586.3 | 513.1 | 476.6 | 453.3 |
| 140° | 616.5 | 624.2 | 654.8 | 685.4 | 654.8 | 624.2 | 616.5 | 569.1 | 505.9 | 474.3 | 453.8 |
| 142.5° | 599.2 | 605.8 | 632.2 | 658.5 | 632.2 | 605.8 | 599.2 | 557.6 | 502.0 | 474.3 | 455.4 |
| 145° | 573.3 | 578.3 | 598.2 | 618.2 | 598.2 | 578.3 | 573.3 | 539.2 | 493.9 | 471.2 | 455.5 |
| 147.5° | 551.6 | 555.7 | 572.2 | 588.7 | 572.2 | 555.7 | 551.6 | 524.8 | 489.0 | 471.2 | 458.5 |
| 150° | 539.0 | 542.3 | 555.7 | 569.1 | 555.7 | 542.3 | 539.0 | 516.4 | 486.3 | 471.2 | 460.2 |
| 152.5° | 529.1 | 531.6 | 541.7 | 551.9 | 541.7 | 531.6 | 529.1 | 509.7 | 484.0 | 471.2 | 461.2 |
| 155° | 517.2 | 518.9 | 525.6 | 532.3 | 525.6 | 518.9 | 517.2 | 501.9 | 481.4 | 471.2 | 463.6 |
| 157.5° | 507.0 | 508.1 | 512.9 | 517.6 | 512.9 | 508.1 | 507.0 | 495.0 | 479.1 | 471.2 | 465.9 |
| 160° | 501.9 | 502.6 | 505.3 | 508.0 | 505.3 | 502.6 | 501.9 | 491.6 | 478.0 | 471.2 | 467.0 |
| 162.5° | 497.0 | 497.7 | 500.3 | 502.8 | 500.3 | 497.7 | 497.0 | 488.4 | 476.9 | 471.2 | 468.2 |
| 165° | 489.7 | 490.4 | 493.1 | 495.8 | 493.1 | 490.4 | 489.7 | 483.6 | 475.3 | 471.2 | 469.8 |
| 167.5° | 486.5 | 486.8 | 487.9 | 489.0 | 487.9 | 486.8 | 486.5 | 482.4 | 477.0 | 474.3 | 473.2 |
| 170° | 486.5 | 486.5 | 486.5 | 486.5 | 486.5 | 486.5 | 486.5 | 482.4 | 477.0 | 474.3 | 474.2 |
| 172.5° | 483.9 | 483.7 | 482.7 | 481.7 | 482.7 | 483.7 | 483.9 | 480.7 | 476.5 | 474.3 | 474.3 |
| 175° | 480.4 | 480.4 | 480.4 | 480.4 | 480.4 | 480.4 | 480.4 | 478.4 | 475.7 | 474.3 | 474.9 |
| 177.5° | 479.8 | 479.5 | 478.4 | 477.2 | 478.4 | 479.5 | 479.8 | 478.2 | 476.0 | 474.9 | 475.5 |
| 180° | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 |



TEST NUMBER: P935222

CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 |
| 2.5° | 1062.1 | 1067.2 | 1070.2 | 1074.3 | 1084.5 |
| 5° | 1021.4 | 1040.7 | 1046.9 | 1062.1 | 1080.5 |
| 7.5° | 931.9 | 990.9 | 1007.2 | 1043.8 | 1072.3 |
| 10° | 845.4 | 904.4 | 932.9 | 1019.4 | 1062.1 |
| 12.5° | 801.6 | 836.3 | 855.6 | 976.7 | 1047.9 |
| 15° | 774.2 | 798.6 | 812.9 | 919.7 | 1031.6 |
| 17.5° | 752.8 | 770.2 | 780.3 | 863.7 | 1009.2 |
| 20° | 739.6 | 747.7 | 756.9 | 823.1 | 983.8 |
| 22.5° | 730.4 | 725.3 | 732.5 | 794.6 | 949.2 |
| 25° | 724.3 | 705.0 | 713.2 | 772.2 | 908.5 |
| 27.5° | 729.4 | 686.7 | 689.8 | 751.8 | 865.8 |
| 30° | 730.4 | 664.4 | 665.4 | 730.4 | 818.0 |
| 32.5° | 723.3 | 640.9 | 641.9 | 704.0 | 764.0 |
| 35° | 706.0 | 613.5 | 612.5 | 673.5 | 690.8 |
| 37.5° | 682.6 | 584.0 | 584.0 | 639.9 | 610.4 |
| 40° | 654.2 | 554.5 | 557.5 | 596.1 | 539.2 |
| 42.5° | 619.5 | 522.9 | 527.0 | 538.2 | 486.3 |
| 45° | 581.9 | 492.4 | 495.4 | 454.8 | 445.6 |
| 47.5° | 540.2 | 460.8 | 461.8 | 377.5 | 432.4 |
| 50° | 490.3 | 428.3 | 424.3 | 323.6 | 431.4 |
| 52.5° | 446.6 | 392.7 | 380.5 | 293.0 | 391.7 |
| 55° | 403.9 | 355.0 | 328.6 | 269.6 | 363.2 |
| 57.5° | 366.2 | 306.2 | 280.8 | 242.2 | 357.1 |
| 60° | 331.6 | 258.4 | 239.1 | 212.6 | 327.6 |
| 62.5° | 303.1 | 222.8 | 218.8 | 192.3 | 297.1 |
| 65° | 272.7 | 198.4 | 197.4 | 175.0 | 252.3 |
| 67.5° | 243.2 | 182.1 | 181.1 | 158.7 | 192.3 |
| 70° | 211.6 | 164.8 | 162.8 | 141.4 | 142.5 |
| 72.5° | 179.0 | 145.5 | 143.5 | 127.2 | 118.0 |
| 75° | 146.5 | 123.1 | 122.0 | 110.9 | 95.6 |
| 77.5° | 115.0 | 97.6 | 99.7 | 89.6 | 70.2 |
| 80° | 82.4 | 71.2 | 73.2 | 64.1 | 52.9 |
| 82.5° | 54.9 | 46.8 | 48.8 | 40.7 | 35.6 |
| 85° | 30.5 | 26.5 | 27.5 | 21.3 | 16.2 |
| 87.5° | 14.2 | 12.2 | 12.2 | 8.2 | 5.1 |
| 90° | 14.1 | 8.9 | 8.3 | 5.8 | 3.2 |
| 92.5° | 86.9 | 61.8 | 56.4 | 34.6 | 12.8 |
| 95° | 213.8 | 120.4 | 110.5 | 70.6 | 30.7 |
| 97.5° | 288.1 | 132.3 | 123.5 | 88.3 | 53.1 |
| 100° | 315.1 | 142.2 | 134.2 | 102.3 | 70.5 |
| 102.5° | 327.5 | 152.2 | 144.7 | 115.0 | 85.2 |
| 105° | 336.6 | 166.9 | 160.5 | 135.4 | 110.2 |
| 107.5° | 338.3 | 188.6 | 182.8 | 159.3 | 135.8 |
| 110° | 335.7 | 200.8 | 195.5 | 174.3 | 153.1 |



TEST NUMBER: P935222

CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 335.9 | 215.5 | 210.4 | 190.3 | 170.1 |
| 115° | 339.0 | 237.6 | 232.9 | 214.3 | 195.7 |
| 117.5° | 345.3 | 259.1 | 254.9 | 237.9 | 221.0 |
| 120° | 350.4 | 271.6 | 267.6 | 251.6 | 235.7 |
| 122.5° | 357.7 | 286.4 | 282.4 | 266.3 | 250.2 |
| 125° | 367.7 | 305.2 | 301.5 | 286.9 | 272.3 |
| 127.5° | 377.6 | 323.5 | 319.8 | 304.9 | 290.1 |
| 130° | 384.8 | 335.6 | 331.6 | 315.7 | 299.8 |
| 132.5° | 390.7 | 345.6 | 341.6 | 325.6 | 309.7 |
| 135° | 397.2 | 357.1 | 353.5 | 339.0 | 324.5 |
| 137.5° | 406.7 | 371.8 | 368.2 | 353.9 | 339.5 |
| 140° | 412.6 | 381.8 | 378.5 | 365.2 | 352.0 |
| 142.5° | 417.6 | 389.2 | 386.1 | 373.8 | 361.6 |
| 145° | 424.0 | 400.3 | 397.6 | 387.0 | 376.3 |
| 147.5° | 433.4 | 414.4 | 411.8 | 401.5 | 391.1 |
| 150° | 438.3 | 421.8 | 419.4 | 410.0 | 400.6 |
| 152.5° | 441.4 | 426.6 | 424.8 | 417.6 | 410.6 |
| 155° | 448.5 | 437.2 | 435.9 | 430.6 | 425.3 |
| 157.5° | 455.5 | 447.8 | 446.4 | 441.4 | 436.2 |
| 160° | 458.8 | 452.5 | 451.5 | 447.6 | 443.6 |
| 162.5° | 462.2 | 457.7 | 456.9 | 453.9 | 450.9 |
| 165° | 467.1 | 465.0 | 464.3 | 461.6 | 458.9 |
| 167.5° | 470.9 | 469.2 | 468.9 | 467.6 | 466.3 |
| 170° | 474.1 | 474.0 | 473.7 | 472.4 | 471.2 |
| 172.5° | 474.3 | 474.3 | 474.2 | 474.0 | 473.7 |
| 175° | 476.2 | 477.2 | 477.2 | 477.2 | 477.2 |
| 177.5° | 476.5 | 477.2 | 477.2 | 477.2 | 477.2 |
| 180° | 477.2 | 477.2 | 477.2 | 477.2 | 477.2 |



TEST NUMBER: P935222
 CATALOG NUMBER: SQ4-FA-100U-100D-927-1D-UNV-STD-W-4

CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 12.54 | 13.38 | 13.52 | 14.37 | 15.68 | 15.34 | 16.18 | 16.32 | 17.17 | 18.48 |
| | 3H | 13.02 | 13.77 | 14.01 | 14.77 | 16.10 | 16.67 | 17.43 | 17.66 | 18.43 | 19.76 |
| | 4H | 13.21 | 13.92 | 14.21 | 14.92 | 16.26 | 17.11 | 17.82 | 18.11 | 18.83 | 20.16 |
| | 6H | 13.33 | 13.98 | 14.34 | 14.99 | 16.34 | 17.39 | 18.04 | 18.40 | 19.05 | 20.40 |
| | 8H | 13.33 | 13.95 | 14.35 | 14.98 | 16.32 | 17.46 | 18.08 | 18.48 | 19.11 | 20.45 |
| | 12H | 13.30 | 13.89 | 14.32 | 14.91 | 16.28 | 17.49 | 18.08 | 18.51 | 19.10 | 20.47 |
| 4H | 2H | 13.56 | 14.28 | 14.57 | 15.28 | 16.62 | 15.75 | 16.46 | 16.76 | 17.46 | 18.80 |
| | 3H | 14.59 | 15.18 | 15.61 | 16.21 | 17.57 | 17.24 | 17.84 | 18.26 | 18.87 | 20.22 |
| | 4H | 14.86 | 15.41 | 15.89 | 16.43 | 17.81 | 17.76 | 18.30 | 18.79 | 19.33 | 20.70 |
| | 6H | 14.99 | 15.45 | 16.03 | 16.50 | 17.87 | 18.12 | 18.59 | 19.16 | 19.63 | 21.00 |
| | 8H | 14.99 | 15.43 | 16.03 | 16.47 | 17.86 | 18.22 | 18.66 | 19.26 | 19.70 | 21.08 |
| | 12H | 14.96 | 15.35 | 16.02 | 16.41 | 17.80 | 18.27 | 18.66 | 19.33 | 19.72 | 21.11 |
| 8H | 4H | 15.31 | 15.75 | 16.35 | 16.79 | 18.17 | 17.89 | 18.32 | 18.92 | 19.36 | 20.75 |
| | 6H | 15.57 | 15.93 | 16.63 | 17.02 | 18.40 | 18.31 | 18.67 | 19.38 | 19.76 | 21.14 |
| | 8H | 15.61 | 15.93 | 16.68 | 17.00 | 18.40 | 18.46 | 18.78 | 19.53 | 19.85 | 21.25 |
| | 12H | 15.60 | 15.88 | 16.67 | 16.94 | 18.38 | 18.55 | 18.83 | 19.62 | 19.89 | 21.34 |
| 12H | 4H | 15.32 | 15.71 | 16.37 | 16.77 | 18.16 | 17.85 | 18.24 | 18.91 | 19.30 | 20.69 |
| | 6H | 15.63 | 15.95 | 16.70 | 17.02 | 18.42 | 18.31 | 18.63 | 19.38 | 19.70 | 21.10 |
| | 8H | 15.70 | 15.97 | 16.77 | 17.04 | 18.48 | 18.47 | 18.74 | 19.54 | 19.81 | 21.25 |