

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: P935250

Luminaire Tested: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935250
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

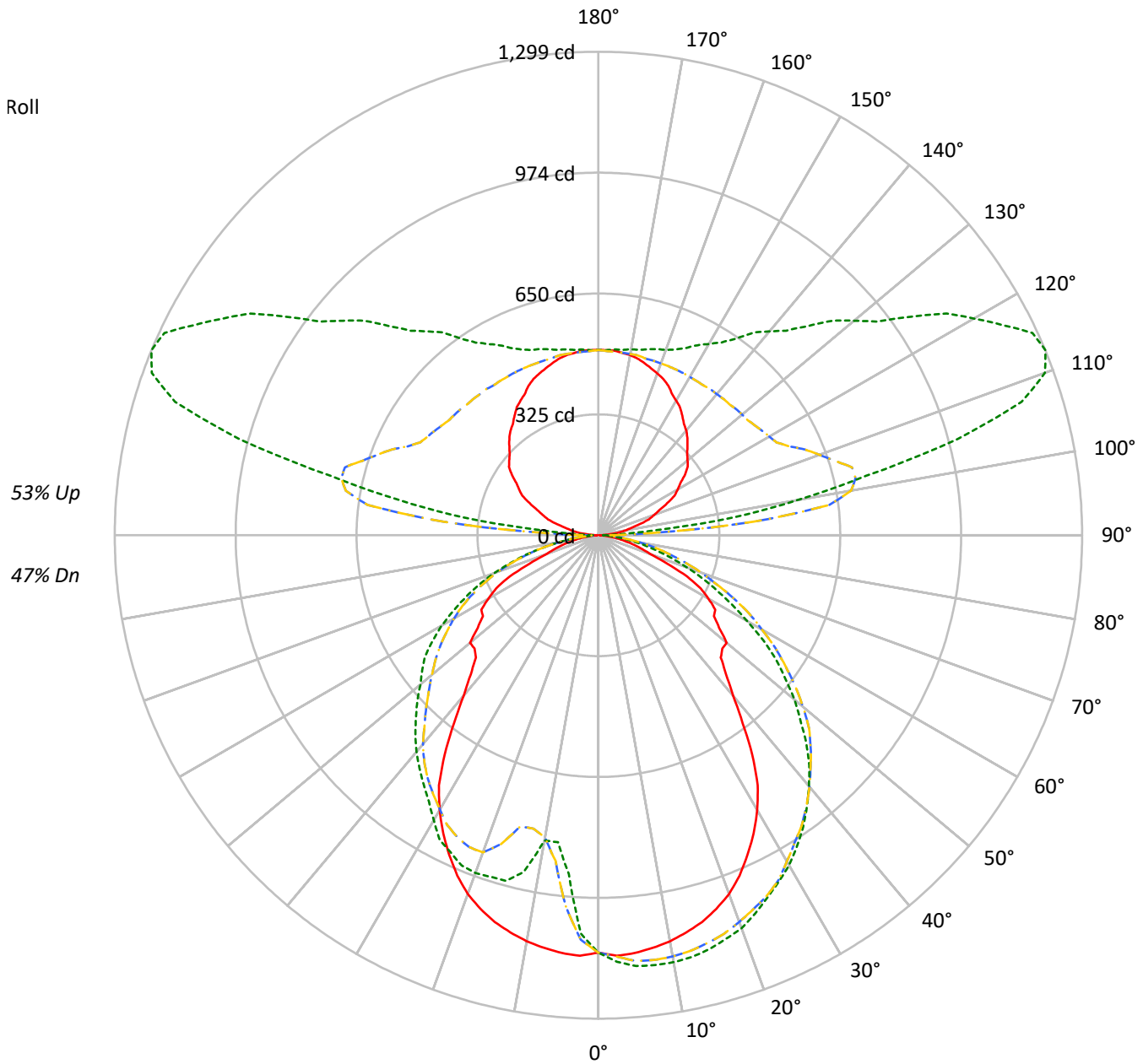
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6135.7 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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: P935250
CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-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° | 10406 | 10406 | 10406 | 10406 |
| 5° | 10473 | 10505 | 10473 | 8260 |
| 10° | 10391 | 10347 | 10391 | 7398 |
| 15° | 10266 | 10123 | 10266 | 8453 |
| 20° | 10039 | 9858 | 10039 | 8470 |
| 25° | 9589 | 9470 | 9589 | 8291 |
| 30° | 9010 | 9148 | 9010 | 7897 |
| 35° | 8020 | 8742 | 8020 | 7464 |
| 40° | 6671 | 8263 | 6671 | 7136 |
| 45° | 5949 | 7702 | 5949 | 6760 |
| 50° | 6305 | 7034 | 6305 | 6383 |
| 55° | 5917 | 6314 | 5917 | 6165 |
| 60° | 6076 | 5362 | 6076 | 5646 |
| 65° | 5483 | 4433 | 5483 | 4956 |
| 70° | 3772 | 3533 | 3772 | 4154 |
| 75° | 3269 | 2610 | 3269 | 3128 |
| 80° | 2583 | 1727 | 2583 | 1880 |
| 85° | 1399 | 914 | 1399 | 778 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9135 cd/sqm



TEST NUMBER: P935250

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.2 | 1.6 |
| 10°-20° | 287.4 | 4.7 |
| 20°-30° | 444.3 | 7.2 |
| 30°-40° | 530.4 | 8.6 |
| 40°-50° | 533.5 | 8.7 |
| 50°-60° | 464.2 | 7.6 |
| 60°-70° | 329.1 | 5.4 |
| 70°-80° | 174.1 | 2.8 |
| 80°-90° | 45.3 | 0.7 |
| 90°-100° | 242.6 | 4.0 |
| 100°-110° | 637.8 | 10.4 |
| 110°-120° | 661.3 | 10.8 |
| 120°-130° | 530.4 | 8.6 |
| 130°-140° | 416.2 | 6.8 |
| 140°-150° | 319.5 | 5.2 |
| 150°-160° | 230.1 | 3.7 |
| 160°-170° | 140.8 | 2.3 |
| 170°-180° | 47.6 | 0.8 |
| 0°-30° | 832.9 | 13.6 |
| 0°-40° | 1363.3 | 22.2 |
| 0°-60° | 2361.0 | 38.5 |
| 0°-90° | 2909.6 | 47.4 |
| 90°-120° | 1541.7 | 25.1 |
| 90°-150° | 2807.8 | 45.8 |
| 90°-180° | 3226.0 | 52.6 |
| 0°-180° | 6135.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1121 | 1121 | 1121 | 1121 | 1121 | |
| 5° | 1127 | 1162 | 1127 | 914 | 1127 | 107 |
| 15° | 1076 | 1151 | 1076 | 961 | 1076 | 303 |
| 25° | 948 | 1074 | 948 | 940 | 948 | 435 |
| 35° | 720 | 958 | 720 | 818 | 720 | 446 |
| 45° | 465 | 789 | 465 | 693 | 465 | 372 |
| 55° | 379 | 582 | 379 | 569 | 379 | 348 |
| 65° | 263 | 351 | 263 | 393 | 263 | 251 |
| 75° | 100 | 166 | 100 | 200 | 100 | 105 |
| 85° | 17 | 42 | 17 | 36 | 17 | 23 |
| 90° | 3 | 13 | 3 | 13 | 3 | 3 |
| 95° | 32 | 147 | 32 | 147 | 32 | 36 |
| 105° | 115 | 999 | 115 | 999 | 115 | 122 |
| 115° | 204 | 1286 | 204 | 1286 | 204 | 202 |
| 125° | 284 | 1024 | 284 | 1024 | 284 | 252 |
| 135° | 338 | 795 | 338 | 795 | 338 | 262 |
| 145° | 392 | 645 | 392 | 645 | 392 | 246 |
| 155° | 444 | 555 | 444 | 555 | 444 | 204 |
| 165° | 479 | 517 | 479 | 517 | 479 | 135 |
| 175° | 498 | 501 | 498 | 501 | 498 | 47 |
| 180° | 498 | 498 | 498 | 498 | 498 | |



TEST NUMBER: P935250
 CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 |
| 2.5° | 1130.9 | 1130.9 | 1137.4 | 1139.5 | 1139.5 | 1136.2 | 1133.1 | 1136.2 | 1145.8 | 1149.0 | 1148.0 |
| 5° | 1126.8 | 1135.2 | 1146.9 | 1149.0 | 1151.1 | 1150.1 | 1148.0 | 1150.1 | 1160.7 | 1162.8 | 1163.9 |
| 7.5° | 1118.3 | 1134.2 | 1149.0 | 1152.2 | 1155.4 | 1152.2 | 1151.1 | 1153.3 | 1163.9 | 1166.0 | 1166.0 |
| 10° | 1107.7 | 1129.9 | 1146.9 | 1149.0 | 1152.2 | 1149.0 | 1149.0 | 1153.3 | 1163.9 | 1166.0 | 1167.1 |
| 12.5° | 1092.8 | 1123.6 | 1139.5 | 1141.6 | 1145.8 | 1144.8 | 1143.7 | 1148.0 | 1158.6 | 1160.7 | 1160.7 |
| 15° | 1075.8 | 1111.9 | 1126.8 | 1128.9 | 1136.2 | 1134.2 | 1134.2 | 1138.4 | 1150.1 | 1153.3 | 1152.2 |
| 17.5° | 1052.5 | 1097.1 | 1114.0 | 1117.2 | 1122.5 | 1121.4 | 1122.5 | 1126.8 | 1137.4 | 1139.5 | 1140.5 |
| 20° | 1025.9 | 1076.9 | 1097.1 | 1100.2 | 1105.5 | 1105.5 | 1105.5 | 1110.8 | 1121.4 | 1125.6 | 1125.6 |
| 22.5° | 989.9 | 1055.6 | 1076.9 | 1079.0 | 1085.3 | 1085.3 | 1087.5 | 1094.9 | 1104.4 | 1105.5 | 1105.5 |
| 25° | 947.5 | 1032.3 | 1050.3 | 1056.7 | 1063.1 | 1066.2 | 1069.4 | 1073.7 | 1076.9 | 1075.8 | 1076.9 |
| 27.5° | 902.9 | 1002.6 | 1025.9 | 1030.2 | 1038.7 | 1041.9 | 1046.1 | 1047.2 | 1048.2 | 1051.4 | 1049.3 |
| 30° | 853.0 | 961.2 | 996.2 | 1000.5 | 1014.3 | 1016.4 | 1012.2 | 1014.3 | 1019.6 | 1021.7 | 1023.8 |
| 32.5° | 796.7 | 899.7 | 965.4 | 975.0 | 987.8 | 981.3 | 980.3 | 983.5 | 992.0 | 992.0 | 994.1 |
| 35° | 720.4 | 852.0 | 936.9 | 945.3 | 954.8 | 947.5 | 951.6 | 952.8 | 958.1 | 961.2 | 960.1 |
| 37.5° | 636.5 | 810.5 | 907.1 | 913.5 | 920.9 | 911.3 | 917.7 | 920.9 | 925.1 | 923.0 | 923.0 |
| 40° | 562.3 | 745.8 | 872.1 | 876.3 | 882.7 | 875.3 | 881.6 | 883.8 | 885.9 | 883.8 | 882.7 |
| 42.5° | 507.2 | 674.8 | 835.0 | 840.3 | 836.0 | 841.3 | 843.5 | 847.7 | 844.5 | 840.3 | 840.3 |
| 45° | 464.7 | 655.6 | 794.6 | 801.0 | 794.6 | 803.2 | 806.3 | 806.3 | 796.7 | 794.6 | 793.6 |
| 47.5° | 450.9 | 617.5 | 754.3 | 754.3 | 751.1 | 761.7 | 767.1 | 759.6 | 750.1 | 747.0 | 747.0 |
| 50° | 449.8 | 575.0 | 699.2 | 694.9 | 709.8 | 722.5 | 717.2 | 709.8 | 702.4 | 690.7 | 690.7 |
| 52.5° | 408.5 | 523.1 | 628.1 | 644.0 | 667.4 | 674.8 | 666.2 | 658.9 | 646.1 | 640.8 | 636.5 |
| 55° | 378.8 | 469.0 | 563.4 | 595.2 | 619.6 | 629.2 | 613.3 | 605.8 | 586.7 | 583.5 | 581.4 |
| 57.5° | 372.4 | 390.4 | 504.0 | 544.3 | 574.0 | 572.9 | 563.4 | 549.6 | 533.7 | 530.5 | 529.4 |
| 60° | 341.6 | 282.2 | 440.3 | 488.1 | 518.8 | 515.6 | 507.2 | 494.4 | 479.6 | 477.5 | 475.3 |
| 62.5° | 309.8 | 204.8 | 368.2 | 422.3 | 465.7 | 464.7 | 457.3 | 438.2 | 427.6 | 422.3 | 418.0 |
| 65° | 263.1 | 171.8 | 262.0 | 351.2 | 413.8 | 415.9 | 400.0 | 386.2 | 374.5 | 368.2 | 367.1 |
| 67.5° | 200.5 | 140.0 | 177.1 | 292.9 | 363.9 | 361.8 | 341.6 | 335.3 | 320.4 | 317.2 | 310.8 |
| 70° | 148.6 | 93.4 | 123.1 | 237.7 | 315.1 | 309.8 | 293.9 | 286.4 | 272.7 | 265.2 | 261.0 |
| 72.5° | 123.1 | 75.3 | 90.2 | 184.6 | 265.2 | 258.9 | 245.1 | 236.6 | 224.9 | 218.6 | 214.3 |
| 75° | 99.7 | 79.6 | 69.0 | 136.8 | 215.4 | 211.1 | 198.4 | 189.9 | 180.4 | 171.8 | 173.0 |
| 77.5° | 73.2 | 74.3 | 55.2 | 100.8 | 170.8 | 164.5 | 157.0 | 146.4 | 142.1 | 133.7 | 133.7 |
| 80° | 55.2 | 58.4 | 41.4 | 69.0 | 123.1 | 123.1 | 116.7 | 109.3 | 101.8 | 97.6 | 97.6 |
| 82.5° | 37.1 | 37.1 | 30.8 | 43.5 | 83.8 | 80.6 | 76.4 | 74.3 | 70.0 | 67.9 | 67.9 |
| 85° | 16.9 | 21.2 | 19.1 | 26.5 | 45.6 | 47.8 | 47.8 | 45.6 | 44.6 | 42.4 | 43.5 |
| 87.5° | 5.3 | 9.6 | 11.6 | 14.9 | 23.4 | 24.4 | 25.5 | 25.5 | 25.5 | 26.5 | 26.5 |
| 90° | 3.4 | 6.0 | 8.7 | 9.3 | 14.7 | 21.8 | 25.4 | 22.6 | 16.9 | 12.7 | 12.7 |
| 92.5° | 13.3 | 36.1 | 58.8 | 64.5 | 90.7 | 125.5 | 142.9 | 125.3 | 89.9 | 63.4 | 60.9 |
| 95° | 32.0 | 73.6 | 115.2 | 125.6 | 223.0 | 352.8 | 417.8 | 372.8 | 282.9 | 215.4 | 207.8 |
| 97.5° | 55.4 | 92.1 | 128.8 | 138.0 | 300.4 | 517.0 | 625.2 | 596.8 | 539.9 | 497.3 | 482.8 |
| 100° | 73.5 | 106.7 | 140.0 | 148.3 | 328.6 | 568.9 | 689.1 | 691.1 | 695.2 | 698.4 | 681.0 |
| 102.5° | 88.8 | 119.9 | 150.9 | 158.7 | 341.5 | 585.2 | 707.1 | 743.3 | 815.8 | 870.1 | 855.2 |
| 105° | 114.9 | 141.2 | 167.4 | 174.0 | 351.1 | 587.1 | 705.1 | 786.3 | 948.7 | 1070.5 | 1062.5 |
| 107.5° | 141.6 | 166.1 | 190.6 | 196.7 | 352.8 | 560.9 | 665.0 | 778.3 | 1004.8 | 1174.7 | 1176.6 |
| 110° | 159.6 | 181.8 | 203.9 | 209.4 | 350.1 | 537.8 | 631.6 | 758.2 | 1011.5 | 1201.4 | 1209.7 |



TEST NUMBER: P935250

CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 112.5° | 177.4 | 198.4 | 219.5 | 224.8 | 350.3 | 517.5 | 601.2 | 730.8 | 989.9 | 1184.3 | 1197.1 |
| 115° | 204.0 | 223.5 | 242.9 | 247.8 | 353.5 | 494.4 | 564.8 | 689.7 | 939.3 | 1126.6 | 1144.3 |
| 117.5° | 230.5 | 248.1 | 265.8 | 270.2 | 360.1 | 479.9 | 539.8 | 652.4 | 877.8 | 1046.8 | 1066.4 |
| 120° | 245.8 | 262.4 | 279.0 | 283.2 | 365.4 | 475.0 | 529.7 | 632.7 | 838.6 | 993.0 | 1012.1 |
| 122.5° | 260.9 | 277.7 | 294.5 | 298.6 | 373.1 | 472.4 | 522.0 | 614.7 | 800.1 | 939.2 | 958.0 |
| 125° | 283.9 | 299.2 | 314.5 | 318.3 | 383.4 | 470.2 | 513.7 | 592.5 | 749.9 | 868.0 | 885.4 |
| 127.5° | 302.6 | 318.0 | 333.5 | 337.3 | 393.8 | 469.0 | 506.7 | 574.3 | 709.5 | 810.9 | 825.6 |
| 130° | 312.6 | 329.2 | 345.9 | 350.0 | 401.3 | 469.8 | 504.0 | 564.3 | 684.6 | 774.9 | 788.4 |
| 132.5° | 323.0 | 339.6 | 356.2 | 360.4 | 407.4 | 470.2 | 501.6 | 555.5 | 663.3 | 744.1 | 756.3 |
| 135° | 338.4 | 353.5 | 368.7 | 372.4 | 414.2 | 469.8 | 497.7 | 542.8 | 633.0 | 700.7 | 711.1 |
| 137.5° | 354.0 | 369.1 | 384.0 | 387.8 | 424.1 | 472.7 | 497.0 | 535.1 | 611.4 | 668.7 | 677.2 |
| 140° | 367.1 | 380.9 | 394.7 | 398.1 | 430.3 | 473.2 | 494.6 | 527.6 | 593.5 | 643.0 | 650.9 |
| 142.5° | 377.1 | 389.9 | 402.6 | 405.8 | 435.5 | 474.9 | 494.6 | 523.6 | 581.5 | 624.9 | 631.8 |
| 145° | 392.4 | 403.6 | 414.7 | 417.5 | 442.1 | 475.0 | 491.4 | 515.0 | 562.3 | 597.8 | 603.1 |
| 147.5° | 407.8 | 418.7 | 429.4 | 432.2 | 451.9 | 478.2 | 491.4 | 510.0 | 547.2 | 575.2 | 579.5 |
| 150° | 417.8 | 427.6 | 437.4 | 439.9 | 457.1 | 480.0 | 491.4 | 507.1 | 538.5 | 562.1 | 565.6 |
| 152.5° | 428.2 | 435.5 | 443.0 | 444.9 | 460.4 | 481.0 | 491.4 | 504.8 | 531.6 | 551.7 | 554.4 |
| 155° | 443.6 | 449.0 | 454.6 | 455.9 | 467.7 | 483.5 | 491.4 | 502.0 | 523.4 | 539.4 | 541.1 |
| 157.5° | 454.9 | 460.3 | 465.6 | 466.9 | 475.1 | 485.9 | 491.4 | 499.6 | 516.2 | 528.7 | 529.9 |
| 160° | 462.6 | 466.8 | 470.9 | 471.9 | 478.4 | 487.0 | 491.4 | 498.5 | 512.7 | 523.4 | 524.1 |
| 162.5° | 470.2 | 473.4 | 476.5 | 477.3 | 482.0 | 488.2 | 491.4 | 497.4 | 509.3 | 518.3 | 519.0 |
| 165° | 478.6 | 481.4 | 484.2 | 484.9 | 487.1 | 489.9 | 491.4 | 495.7 | 504.3 | 510.7 | 511.4 |
| 167.5° | 486.3 | 487.7 | 489.0 | 489.3 | 491.1 | 493.4 | 494.6 | 497.5 | 503.1 | 507.3 | 507.7 |
| 170° | 491.4 | 492.6 | 494.0 | 494.3 | 494.4 | 494.6 | 494.6 | 497.5 | 503.1 | 507.3 | 507.3 |
| 172.5° | 494.0 | 494.3 | 494.6 | 494.6 | 494.6 | 494.6 | 494.6 | 496.9 | 501.3 | 504.7 | 504.4 |
| 175° | 497.7 | 497.7 | 497.7 | 497.7 | 496.7 | 495.3 | 494.6 | 496.1 | 498.9 | 501.0 | 501.0 |
| 177.5° | 497.7 | 497.7 | 497.7 | 497.7 | 496.9 | 495.9 | 495.3 | 496.4 | 498.7 | 500.3 | 500.0 |
| 180° | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 |



TEST NUMBER: P935250
 CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 |
| 2.5° | 1150.1 | 1146.9 | 1150.1 | 1148.0 | 1149.0 | 1145.8 | 1136.2 | 1133.1 | 1136.2 | 1139.5 | 1139.5 |
| 5° | 1163.9 | 1161.8 | 1163.9 | 1163.9 | 1162.8 | 1160.7 | 1150.1 | 1148.0 | 1150.1 | 1151.1 | 1149.0 |
| 7.5° | 1168.1 | 1164.9 | 1168.1 | 1166.0 | 1166.0 | 1163.9 | 1153.3 | 1151.1 | 1152.2 | 1155.4 | 1152.2 |
| 10° | 1168.1 | 1164.9 | 1168.1 | 1167.1 | 1166.0 | 1163.9 | 1153.3 | 1149.0 | 1149.0 | 1152.2 | 1149.0 |
| 12.5° | 1162.8 | 1160.7 | 1162.8 | 1160.7 | 1160.7 | 1158.6 | 1148.0 | 1143.7 | 1144.8 | 1145.8 | 1141.6 |
| 15° | 1154.3 | 1151.1 | 1154.3 | 1152.2 | 1153.3 | 1150.1 | 1138.4 | 1134.2 | 1134.2 | 1136.2 | 1128.9 |
| 17.5° | 1141.6 | 1137.4 | 1141.6 | 1140.5 | 1139.5 | 1137.4 | 1126.8 | 1122.5 | 1121.4 | 1122.5 | 1117.2 |
| 20° | 1126.8 | 1123.6 | 1126.8 | 1125.6 | 1125.6 | 1121.4 | 1110.8 | 1105.5 | 1105.5 | 1105.5 | 1100.2 |
| 22.5° | 1103.4 | 1100.2 | 1103.4 | 1105.5 | 1105.5 | 1104.4 | 1094.9 | 1087.5 | 1085.3 | 1085.3 | 1079.0 |
| 25° | 1076.9 | 1073.7 | 1076.9 | 1076.9 | 1075.8 | 1076.9 | 1073.7 | 1069.4 | 1066.2 | 1063.1 | 1056.7 |
| 27.5° | 1051.4 | 1049.3 | 1051.4 | 1049.3 | 1051.4 | 1048.2 | 1047.2 | 1046.1 | 1041.9 | 1038.7 | 1030.2 |
| 30° | 1025.9 | 1023.8 | 1025.9 | 1023.8 | 1021.7 | 1019.6 | 1014.3 | 1012.2 | 1016.4 | 1014.3 | 1000.5 |
| 32.5° | 994.1 | 992.0 | 994.1 | 994.1 | 992.0 | 992.0 | 983.5 | 980.3 | 981.3 | 987.8 | 975.0 |
| 35° | 961.2 | 958.1 | 961.2 | 960.1 | 961.2 | 958.1 | 952.8 | 951.6 | 947.5 | 954.8 | 945.3 |
| 37.5° | 923.0 | 919.8 | 923.0 | 923.0 | 923.0 | 925.1 | 920.9 | 917.7 | 911.3 | 920.9 | 913.5 |
| 40° | 883.8 | 879.5 | 883.8 | 882.7 | 883.8 | 885.9 | 883.8 | 881.6 | 875.3 | 882.7 | 876.3 |
| 42.5° | 839.2 | 838.2 | 839.2 | 840.3 | 840.3 | 844.5 | 847.7 | 843.5 | 841.3 | 836.0 | 840.3 |
| 45° | 791.4 | 789.3 | 791.4 | 793.6 | 794.6 | 796.7 | 806.3 | 806.3 | 803.2 | 794.6 | 801.0 |
| 47.5° | 740.5 | 735.2 | 740.5 | 747.0 | 747.0 | 750.1 | 759.6 | 767.1 | 761.7 | 751.1 | 754.3 |
| 50° | 686.4 | 687.5 | 686.4 | 690.7 | 690.7 | 702.4 | 709.8 | 717.2 | 722.5 | 709.8 | 694.9 |
| 52.5° | 633.4 | 632.4 | 633.4 | 636.5 | 640.8 | 646.1 | 658.9 | 666.2 | 674.8 | 667.4 | 644.0 |
| 55° | 580.3 | 582.5 | 580.3 | 581.4 | 583.5 | 586.7 | 605.8 | 613.3 | 629.2 | 619.6 | 595.2 |
| 57.5° | 527.3 | 524.1 | 527.3 | 529.4 | 530.5 | 533.7 | 549.6 | 563.4 | 572.9 | 574.0 | 544.3 |
| 60° | 465.7 | 461.5 | 465.7 | 475.3 | 477.5 | 479.6 | 494.4 | 507.2 | 515.6 | 518.8 | 488.1 |
| 62.5° | 411.6 | 404.2 | 411.6 | 418.0 | 422.3 | 427.6 | 438.2 | 457.3 | 464.7 | 465.7 | 422.3 |
| 65° | 354.4 | 351.2 | 354.4 | 367.1 | 368.2 | 374.5 | 386.2 | 400.0 | 415.9 | 413.8 | 351.2 |
| 67.5° | 302.4 | 302.4 | 302.4 | 310.8 | 317.2 | 320.4 | 335.3 | 341.6 | 361.8 | 363.9 | 292.9 |
| 70° | 254.6 | 253.6 | 254.6 | 261.0 | 265.2 | 272.7 | 286.4 | 293.9 | 309.8 | 315.1 | 237.7 |
| 72.5° | 209.0 | 208.0 | 209.0 | 214.3 | 218.6 | 224.9 | 236.6 | 245.1 | 258.9 | 265.2 | 184.6 |
| 75° | 168.7 | 166.5 | 168.7 | 173.0 | 171.8 | 180.4 | 189.9 | 198.4 | 211.1 | 215.4 | 136.8 |
| 77.5° | 129.4 | 129.4 | 129.4 | 133.7 | 133.7 | 142.1 | 146.4 | 157.0 | 164.5 | 170.8 | 100.8 |
| 80° | 96.5 | 95.5 | 96.5 | 97.6 | 97.6 | 101.8 | 109.3 | 116.7 | 123.1 | 123.1 | 69.0 |
| 82.5° | 67.9 | 65.8 | 67.9 | 67.9 | 67.9 | 70.0 | 74.3 | 76.4 | 80.6 | 83.8 | 43.5 |
| 85° | 42.4 | 42.4 | 42.4 | 43.5 | 42.4 | 44.6 | 45.6 | 47.8 | 47.8 | 45.6 | 26.5 |
| 87.5° | 27.6 | 26.5 | 27.6 | 26.5 | 26.5 | 25.5 | 25.5 | 25.5 | 24.4 | 23.4 | 14.9 |
| 90° | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 16.9 | 22.6 | 25.4 | 21.8 | 14.7 | 9.3 |
| 92.5° | 50.8 | 40.7 | 50.8 | 60.9 | 63.4 | 89.9 | 125.3 | 142.9 | 125.5 | 90.7 | 64.5 |
| 95° | 177.2 | 146.6 | 177.2 | 207.8 | 215.4 | 282.9 | 372.8 | 417.8 | 352.8 | 223.0 | 125.6 |
| 97.5° | 424.5 | 366.4 | 424.5 | 482.8 | 497.3 | 539.9 | 596.8 | 625.2 | 517.0 | 300.4 | 138.0 |
| 100° | 611.7 | 542.4 | 611.7 | 681.0 | 698.4 | 695.2 | 691.1 | 689.1 | 568.9 | 328.6 | 148.3 |
| 102.5° | 795.9 | 736.5 | 795.9 | 855.2 | 870.1 | 815.8 | 743.3 | 707.1 | 585.2 | 341.5 | 158.7 |
| 105° | 1030.6 | 998.7 | 1030.6 | 1062.5 | 1070.5 | 948.7 | 786.3 | 705.1 | 587.1 | 351.1 | 174.0 |
| 107.5° | 1184.3 | 1192.1 | 1184.3 | 1176.6 | 1174.7 | 1004.8 | 778.3 | 665.0 | 560.9 | 352.8 | 196.7 |
| 110° | 1243.0 | 1276.2 | 1243.0 | 1209.7 | 1201.4 | 1011.5 | 758.2 | 631.6 | 537.8 | 350.1 | 209.4 |



TEST NUMBER: P935250

CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 1248.2 | 1299.3 | 1248.2 | 1197.1 | 1184.3 | 989.9 | 730.8 | 601.2 | 517.5 | 350.3 | 224.8 |
| 115° | 1215.1 | 1285.9 | 1215.1 | 1144.3 | 1126.6 | 939.3 | 689.7 | 564.8 | 494.4 | 353.5 | 247.8 |
| 117.5° | 1144.9 | 1223.5 | 1144.9 | 1066.4 | 1046.8 | 877.8 | 652.4 | 539.8 | 479.9 | 360.1 | 270.2 |
| 120° | 1088.4 | 1164.7 | 1088.4 | 1012.1 | 993.0 | 838.6 | 632.7 | 529.7 | 475.0 | 365.4 | 283.2 |
| 122.5° | 1033.3 | 1108.5 | 1033.3 | 958.0 | 939.2 | 800.1 | 614.7 | 522.0 | 472.4 | 373.1 | 298.6 |
| 125° | 954.7 | 1024.1 | 954.7 | 885.4 | 868.0 | 749.9 | 592.5 | 513.7 | 470.2 | 383.4 | 318.3 |
| 127.5° | 884.1 | 942.6 | 884.1 | 825.6 | 810.9 | 709.5 | 574.3 | 506.7 | 469.0 | 393.8 | 337.3 |
| 130° | 842.4 | 896.5 | 842.4 | 788.4 | 774.9 | 684.6 | 564.3 | 504.0 | 469.8 | 401.3 | 350.0 |
| 132.5° | 804.6 | 853.0 | 804.6 | 756.3 | 744.1 | 663.3 | 555.5 | 501.6 | 470.2 | 407.4 | 360.4 |
| 135° | 752.8 | 794.6 | 752.8 | 711.1 | 700.7 | 633.0 | 542.8 | 497.7 | 469.8 | 414.2 | 372.4 |
| 137.5° | 711.4 | 745.5 | 711.4 | 677.2 | 668.7 | 611.4 | 535.1 | 497.0 | 472.7 | 424.1 | 387.8 |
| 140° | 682.9 | 714.8 | 682.9 | 650.9 | 643.0 | 593.5 | 527.6 | 494.6 | 473.2 | 430.3 | 398.1 |
| 142.5° | 659.3 | 686.7 | 659.3 | 631.8 | 624.9 | 581.5 | 523.6 | 494.6 | 474.9 | 435.5 | 405.8 |
| 145° | 623.9 | 644.6 | 623.9 | 603.1 | 597.8 | 562.3 | 515.0 | 491.4 | 475.0 | 442.1 | 417.5 |
| 147.5° | 596.7 | 613.9 | 596.7 | 579.5 | 575.2 | 547.2 | 510.0 | 491.4 | 478.2 | 451.9 | 432.2 |
| 150° | 579.5 | 593.5 | 579.5 | 565.6 | 562.1 | 538.5 | 507.1 | 491.4 | 480.0 | 457.1 | 439.9 |
| 152.5° | 564.9 | 575.5 | 564.9 | 554.4 | 551.7 | 531.6 | 504.8 | 491.4 | 481.0 | 460.4 | 444.9 |
| 155° | 548.1 | 555.1 | 548.1 | 541.1 | 539.4 | 523.4 | 502.0 | 491.4 | 483.5 | 467.7 | 455.9 |
| 157.5° | 534.9 | 539.8 | 534.9 | 529.9 | 528.7 | 516.2 | 499.6 | 491.4 | 485.9 | 475.1 | 466.9 |
| 160° | 526.9 | 529.7 | 526.9 | 524.1 | 523.4 | 512.7 | 498.5 | 491.4 | 487.0 | 478.4 | 471.9 |
| 162.5° | 521.7 | 524.4 | 521.7 | 519.0 | 518.3 | 509.3 | 497.4 | 491.4 | 488.2 | 482.0 | 477.3 |
| 165° | 514.2 | 517.1 | 514.2 | 511.4 | 510.7 | 504.3 | 495.7 | 491.4 | 489.9 | 487.1 | 484.9 |
| 167.5° | 508.8 | 510.0 | 508.8 | 507.7 | 507.3 | 503.1 | 497.5 | 494.6 | 493.4 | 491.1 | 489.3 |
| 170° | 507.3 | 507.3 | 507.3 | 507.3 | 507.3 | 503.1 | 497.5 | 494.6 | 494.6 | 494.4 | 494.3 |
| 172.5° | 503.4 | 502.4 | 503.4 | 504.4 | 504.7 | 501.3 | 496.9 | 494.6 | 494.6 | 494.6 | 494.6 |
| 175° | 501.0 | 501.0 | 501.0 | 501.0 | 501.0 | 498.9 | 496.1 | 494.6 | 495.3 | 496.7 | 497.7 |
| 177.5° | 498.9 | 497.7 | 498.9 | 500.0 | 500.3 | 498.7 | 496.4 | 495.3 | 495.9 | 496.9 | 497.7 |
| 180° | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 |



TEST NUMBER: P935250
 CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 |
| 2.5° | 1137.4 | 1130.9 | 1130.9 | 1120.3 | 1116.1 | 1113.0 | 1107.7 | 1091.8 | 1087.5 | 1083.2 | 1089.6 |
| 5° | 1146.9 | 1135.2 | 1126.8 | 1107.7 | 1091.8 | 1085.3 | 1065.2 | 1027.0 | 1001.5 | 982.5 | 971.9 |
| 7.5° | 1149.0 | 1134.2 | 1118.3 | 1088.5 | 1050.3 | 1033.4 | 971.9 | 901.8 | 882.7 | 865.7 | 855.1 |
| 10° | 1146.9 | 1129.9 | 1107.7 | 1063.1 | 972.9 | 943.2 | 881.6 | 836.0 | 824.4 | 821.1 | 824.4 |
| 12.5° | 1139.5 | 1123.6 | 1092.8 | 1018.5 | 892.3 | 872.1 | 836.0 | 809.5 | 807.4 | 812.7 | 841.3 |
| 15° | 1126.8 | 1111.9 | 1075.8 | 959.1 | 847.7 | 832.9 | 807.4 | 797.9 | 809.5 | 846.6 | 932.6 |
| 17.5° | 1114.0 | 1097.1 | 1052.5 | 900.7 | 813.8 | 803.2 | 785.1 | 804.2 | 870.0 | 919.8 | 948.5 |
| 20° | 1097.1 | 1076.9 | 1025.9 | 858.3 | 789.3 | 779.8 | 771.3 | 857.3 | 907.1 | 925.1 | 941.0 |
| 22.5° | 1076.9 | 1055.6 | 989.9 | 828.6 | 763.9 | 756.4 | 761.7 | 887.0 | 907.1 | 919.8 | 933.6 |
| 25° | 1050.3 | 1032.3 | 947.5 | 805.2 | 743.7 | 735.2 | 755.4 | 883.8 | 895.4 | 898.6 | 926.2 |
| 27.5° | 1025.9 | 1002.6 | 902.9 | 784.0 | 719.3 | 716.1 | 760.7 | 870.0 | 878.5 | 881.6 | 911.3 |
| 30° | 996.2 | 961.2 | 853.0 | 761.7 | 693.9 | 692.8 | 761.7 | 853.0 | 850.9 | 859.4 | 889.1 |
| 32.5° | 965.4 | 899.7 | 796.7 | 734.2 | 669.5 | 668.4 | 754.3 | 827.6 | 825.4 | 837.1 | 859.4 |
| 35° | 936.9 | 852.0 | 720.4 | 702.4 | 638.7 | 639.8 | 736.3 | 797.9 | 798.9 | 809.5 | 823.3 |
| 37.5° | 907.1 | 810.5 | 636.5 | 667.4 | 609.0 | 609.0 | 711.9 | 770.2 | 768.1 | 771.3 | 790.4 |
| 40° | 872.1 | 745.8 | 562.3 | 621.7 | 581.4 | 578.2 | 682.2 | 740.5 | 733.1 | 732.1 | 758.6 |
| 42.5° | 835.0 | 674.8 | 507.2 | 561.2 | 549.6 | 545.3 | 646.1 | 704.5 | 690.7 | 693.9 | 727.8 |
| 45° | 794.6 | 655.6 | 464.7 | 474.3 | 516.7 | 513.5 | 606.8 | 663.1 | 653.6 | 662.1 | 697.1 |
| 47.5° | 754.3 | 617.5 | 450.9 | 393.6 | 481.6 | 480.6 | 563.4 | 622.8 | 617.5 | 625.9 | 663.1 |
| 50° | 699.2 | 575.0 | 449.8 | 337.4 | 442.5 | 446.6 | 511.4 | 583.5 | 583.5 | 590.9 | 630.2 |
| 52.5° | 628.1 | 523.1 | 408.5 | 305.5 | 396.8 | 409.5 | 465.7 | 549.6 | 551.7 | 559.1 | 594.1 |
| 55° | 563.4 | 469.0 | 378.8 | 281.1 | 342.7 | 370.3 | 421.2 | 514.6 | 518.8 | 526.2 | 558.1 |
| 57.5° | 504.0 | 390.4 | 372.4 | 252.5 | 292.9 | 319.4 | 381.9 | 480.6 | 482.8 | 489.1 | 519.9 |
| 60° | 440.3 | 282.2 | 341.6 | 221.7 | 249.3 | 269.5 | 345.9 | 440.3 | 447.8 | 451.9 | 478.5 |
| 62.5° | 368.2 | 204.8 | 309.8 | 200.5 | 228.1 | 232.4 | 316.1 | 402.1 | 411.6 | 414.8 | 430.7 |
| 65° | 262.0 | 171.8 | 263.1 | 182.5 | 205.8 | 206.9 | 284.3 | 362.9 | 371.3 | 376.6 | 388.3 |
| 67.5° | 177.1 | 140.0 | 200.5 | 165.5 | 188.9 | 189.9 | 253.6 | 317.2 | 328.9 | 333.2 | 340.6 |
| 70° | 123.1 | 93.4 | 148.6 | 147.5 | 169.8 | 171.8 | 220.7 | 275.8 | 286.4 | 289.6 | 293.9 |
| 72.5° | 90.2 | 75.3 | 123.1 | 132.7 | 149.6 | 151.7 | 186.7 | 229.2 | 239.8 | 243.0 | 245.1 |
| 75° | 69.0 | 79.6 | 99.7 | 115.6 | 127.3 | 128.4 | 152.8 | 186.7 | 194.2 | 196.3 | 197.3 |
| 77.5° | 55.2 | 74.3 | 73.2 | 93.4 | 104.0 | 101.8 | 119.9 | 144.3 | 150.6 | 150.6 | 150.6 |
| 80° | 41.4 | 58.4 | 55.2 | 66.8 | 76.4 | 74.3 | 85.9 | 102.9 | 105.0 | 107.1 | 106.1 |
| 82.5° | 30.8 | 37.1 | 37.1 | 42.4 | 50.9 | 48.8 | 57.3 | 66.8 | 66.8 | 66.8 | 69.0 |
| 85° | 19.1 | 21.2 | 16.9 | 22.2 | 28.7 | 27.6 | 31.8 | 36.1 | 37.1 | 37.1 | 35.0 |
| 87.5° | 11.6 | 9.6 | 5.3 | 8.5 | 12.8 | 12.8 | 14.9 | 15.9 | 14.9 | 14.9 | 14.9 |
| 90° | 8.7 | 6.0 | 3.4 | 6.0 | 8.7 | 9.3 | 14.7 | 21.8 | 25.4 | 22.6 | 16.9 |
| 92.5° | 58.8 | 36.1 | 13.3 | 36.1 | 58.8 | 64.5 | 90.7 | 125.5 | 142.9 | 125.3 | 89.9 |
| 95° | 115.2 | 73.6 | 32.0 | 73.6 | 115.2 | 125.6 | 223.0 | 352.8 | 417.8 | 372.8 | 282.9 |
| 97.5° | 128.8 | 92.1 | 55.4 | 92.1 | 128.8 | 138.0 | 300.4 | 517.0 | 625.2 | 596.8 | 539.9 |
| 100° | 140.0 | 106.7 | 73.5 | 106.7 | 140.0 | 148.3 | 328.6 | 568.9 | 689.1 | 691.1 | 695.2 |
| 102.5° | 150.9 | 119.9 | 88.8 | 119.9 | 150.9 | 158.7 | 341.5 | 585.2 | 707.1 | 743.3 | 815.8 |
| 105° | 167.4 | 141.2 | 114.9 | 141.2 | 167.4 | 174.0 | 351.1 | 587.1 | 705.1 | 786.3 | 948.7 |
| 107.5° | 190.6 | 166.1 | 141.6 | 166.1 | 190.6 | 196.7 | 352.8 | 560.9 | 665.0 | 778.3 | 1004.8 |
| 110° | 203.9 | 181.8 | 159.6 | 181.8 | 203.9 | 209.4 | 350.1 | 537.8 | 631.6 | 758.2 | 1011.5 |



TEST NUMBER: P935250

CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 219.5 | 198.4 | 177.4 | 198.4 | 219.5 | 224.8 | 350.3 | 517.5 | 601.2 | 730.8 | 989.9 |
| 115° | 242.9 | 223.5 | 204.0 | 223.5 | 242.9 | 247.8 | 353.5 | 494.4 | 564.8 | 689.7 | 939.3 |
| 117.5° | 265.8 | 248.1 | 230.5 | 248.1 | 265.8 | 270.2 | 360.1 | 479.9 | 539.8 | 652.4 | 877.8 |
| 120° | 279.0 | 262.4 | 245.8 | 262.4 | 279.0 | 283.2 | 365.4 | 475.0 | 529.7 | 632.7 | 838.6 |
| 122.5° | 294.5 | 277.7 | 260.9 | 277.7 | 294.5 | 298.6 | 373.1 | 472.4 | 522.0 | 614.7 | 800.1 |
| 125° | 314.5 | 299.2 | 283.9 | 299.2 | 314.5 | 318.3 | 383.4 | 470.2 | 513.7 | 592.5 | 749.9 |
| 127.5° | 333.5 | 318.0 | 302.6 | 318.0 | 333.5 | 337.3 | 393.8 | 469.0 | 506.7 | 574.3 | 709.5 |
| 130° | 345.9 | 329.2 | 312.6 | 329.2 | 345.9 | 350.0 | 401.3 | 469.8 | 504.0 | 564.3 | 684.6 |
| 132.5° | 356.2 | 339.6 | 323.0 | 339.6 | 356.2 | 360.4 | 407.4 | 470.2 | 501.6 | 555.5 | 663.3 |
| 135° | 368.7 | 353.5 | 338.4 | 353.5 | 368.7 | 372.4 | 414.2 | 469.8 | 497.7 | 542.8 | 633.0 |
| 137.5° | 384.0 | 369.1 | 354.0 | 369.1 | 384.0 | 387.8 | 424.1 | 472.7 | 497.0 | 535.1 | 611.4 |
| 140° | 394.7 | 380.9 | 367.1 | 380.9 | 394.7 | 398.1 | 430.3 | 473.2 | 494.6 | 527.6 | 593.5 |
| 142.5° | 402.6 | 389.9 | 377.1 | 389.9 | 402.6 | 405.8 | 435.5 | 474.9 | 494.6 | 523.6 | 581.5 |
| 145° | 414.7 | 403.6 | 392.4 | 403.6 | 414.7 | 417.5 | 442.1 | 475.0 | 491.4 | 515.0 | 562.3 |
| 147.5° | 429.4 | 418.7 | 407.8 | 418.7 | 429.4 | 432.2 | 451.9 | 478.2 | 491.4 | 510.0 | 547.2 |
| 150° | 437.4 | 427.6 | 417.8 | 427.6 | 437.4 | 439.9 | 457.1 | 480.0 | 491.4 | 507.1 | 538.5 |
| 152.5° | 443.0 | 435.5 | 428.2 | 435.5 | 443.0 | 444.9 | 460.4 | 481.0 | 491.4 | 504.8 | 531.6 |
| 155° | 454.6 | 449.0 | 443.6 | 449.0 | 454.6 | 455.9 | 467.7 | 483.5 | 491.4 | 502.0 | 523.4 |
| 157.5° | 465.6 | 460.3 | 454.9 | 460.3 | 465.6 | 466.9 | 475.1 | 485.9 | 491.4 | 499.6 | 516.2 |
| 160° | 470.9 | 466.8 | 462.6 | 466.8 | 470.9 | 471.9 | 478.4 | 487.0 | 491.4 | 498.5 | 512.7 |
| 162.5° | 476.5 | 473.4 | 470.2 | 473.4 | 476.5 | 477.3 | 482.0 | 488.2 | 491.4 | 497.4 | 509.3 |
| 165° | 484.2 | 481.4 | 478.6 | 481.4 | 484.2 | 484.9 | 487.1 | 489.9 | 491.4 | 495.7 | 504.3 |
| 167.5° | 489.0 | 487.7 | 486.3 | 487.7 | 489.0 | 489.3 | 491.1 | 493.4 | 494.6 | 497.5 | 503.1 |
| 170° | 494.0 | 492.6 | 491.4 | 492.6 | 494.0 | 494.3 | 494.4 | 494.6 | 494.6 | 497.5 | 503.1 |
| 172.5° | 494.6 | 494.3 | 494.0 | 494.3 | 494.6 | 494.6 | 494.6 | 494.6 | 494.6 | 496.9 | 501.3 |
| 175° | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 496.7 | 495.3 | 494.6 | 496.1 | 498.9 |
| 177.5° | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 496.9 | 495.9 | 495.3 | 496.4 | 498.7 |
| 180° | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 |



TEST NUMBER: P935250

CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 |
| 2.5° | 1082.2 | 1079.0 | 1083.2 | 1071.5 | 1083.2 | 1079.0 | 1082.2 | 1089.6 | 1083.2 | 1087.5 | 1091.8 |
| 5° | 949.5 | 944.2 | 927.3 | 913.5 | 927.3 | 944.2 | 949.5 | 971.9 | 982.5 | 1001.5 | 1027.0 |
| 7.5° | 848.8 | 844.5 | 840.3 | 831.7 | 840.3 | 844.5 | 848.8 | 855.1 | 865.7 | 882.7 | 901.8 |
| 10° | 826.4 | 827.6 | 833.9 | 832.9 | 833.9 | 827.6 | 826.4 | 824.4 | 821.1 | 824.4 | 836.0 |
| 12.5° | 883.8 | 893.3 | 928.3 | 926.2 | 928.3 | 893.3 | 883.8 | 841.3 | 812.7 | 807.4 | 809.5 |
| 15° | 949.5 | 952.8 | 960.1 | 961.2 | 960.1 | 952.8 | 949.5 | 932.6 | 846.6 | 809.5 | 797.9 |
| 17.5° | 955.9 | 957.0 | 962.3 | 962.3 | 962.3 | 957.0 | 955.9 | 948.5 | 919.8 | 870.0 | 804.2 |
| 20° | 950.6 | 952.8 | 963.4 | 965.4 | 963.4 | 952.8 | 950.6 | 941.0 | 925.1 | 907.1 | 857.3 |
| 22.5° | 948.5 | 952.8 | 961.2 | 960.1 | 961.2 | 952.8 | 948.5 | 933.6 | 919.8 | 907.1 | 887.0 |
| 25° | 937.9 | 937.9 | 938.9 | 940.0 | 938.9 | 937.9 | 937.9 | 926.2 | 898.6 | 895.4 | 883.8 |
| 27.5° | 915.6 | 917.7 | 924.1 | 923.0 | 924.1 | 917.7 | 915.6 | 911.3 | 881.6 | 878.5 | 870.0 |
| 30° | 895.4 | 893.3 | 888.0 | 883.8 | 888.0 | 893.3 | 895.4 | 889.1 | 859.4 | 850.9 | 853.0 |
| 32.5° | 861.5 | 856.2 | 850.9 | 847.7 | 850.9 | 856.2 | 861.5 | 859.4 | 837.1 | 825.4 | 827.6 |
| 35° | 821.1 | 822.3 | 821.1 | 818.0 | 821.1 | 822.3 | 821.1 | 823.3 | 809.5 | 798.9 | 797.9 |
| 37.5° | 792.6 | 794.6 | 793.6 | 789.3 | 793.6 | 794.6 | 792.6 | 790.4 | 771.3 | 768.1 | 770.2 |
| 40° | 762.8 | 763.9 | 762.8 | 759.6 | 762.8 | 763.9 | 762.8 | 758.6 | 732.1 | 733.1 | 740.5 |
| 42.5° | 734.2 | 733.1 | 729.9 | 727.8 | 729.9 | 733.1 | 734.2 | 727.8 | 693.9 | 690.7 | 704.5 |
| 45° | 701.3 | 702.4 | 696.0 | 692.8 | 696.0 | 702.4 | 701.3 | 697.1 | 662.1 | 653.6 | 663.1 |
| 47.5° | 668.4 | 668.4 | 663.1 | 659.9 | 663.1 | 668.4 | 668.4 | 663.1 | 625.9 | 617.5 | 622.8 |
| 50° | 633.4 | 632.4 | 624.9 | 623.9 | 624.9 | 632.4 | 633.4 | 630.2 | 590.9 | 583.5 | 583.5 |
| 52.5° | 593.1 | 593.1 | 594.1 | 596.2 | 594.1 | 593.1 | 593.1 | 594.1 | 559.1 | 551.7 | 549.6 |
| 55° | 558.1 | 559.1 | 566.5 | 568.7 | 566.5 | 559.1 | 558.1 | 558.1 | 526.2 | 518.8 | 514.6 |
| 57.5° | 522.0 | 522.0 | 527.3 | 527.3 | 527.3 | 522.0 | 522.0 | 519.9 | 489.1 | 482.8 | 480.6 |
| 60° | 480.6 | 482.8 | 486.9 | 485.9 | 486.9 | 482.8 | 480.6 | 478.5 | 451.9 | 447.8 | 440.3 |
| 62.5° | 437.1 | 439.2 | 440.3 | 438.2 | 440.3 | 439.2 | 437.1 | 430.7 | 414.8 | 411.6 | 402.1 |
| 65° | 391.5 | 393.6 | 394.7 | 392.6 | 394.7 | 393.6 | 391.5 | 388.3 | 376.6 | 371.3 | 362.9 |
| 67.5° | 344.8 | 343.8 | 342.7 | 346.9 | 342.7 | 343.8 | 344.8 | 340.6 | 333.2 | 328.9 | 317.2 |
| 70° | 297.0 | 297.0 | 296.0 | 298.2 | 296.0 | 297.0 | 297.0 | 293.9 | 289.6 | 286.4 | 275.8 |
| 72.5° | 246.1 | 245.1 | 249.3 | 246.1 | 249.3 | 245.1 | 246.1 | 245.1 | 243.0 | 239.8 | 229.2 |
| 75° | 196.3 | 198.4 | 196.3 | 199.5 | 196.3 | 198.4 | 196.3 | 197.3 | 196.3 | 194.2 | 186.7 |
| 77.5° | 149.6 | 151.7 | 149.6 | 149.6 | 149.6 | 151.7 | 149.6 | 150.6 | 150.6 | 150.6 | 144.3 |
| 80° | 106.1 | 105.0 | 105.0 | 104.0 | 105.0 | 105.0 | 106.1 | 106.1 | 107.1 | 105.0 | 102.9 |
| 82.5° | 67.9 | 66.8 | 66.8 | 69.0 | 66.8 | 66.8 | 67.9 | 69.0 | 66.8 | 66.8 | 66.8 |
| 85° | 37.1 | 38.2 | 36.1 | 36.1 | 36.1 | 38.2 | 37.1 | 35.0 | 37.1 | 37.1 | 36.1 |
| 87.5° | 13.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 13.8 | 14.9 | 14.9 | 14.9 | 15.9 |
| 90° | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 16.9 | 22.6 | 25.4 | 21.8 |
| 92.5° | 63.4 | 60.9 | 50.8 | 40.7 | 50.8 | 60.9 | 63.4 | 89.9 | 125.3 | 142.9 | 125.5 |
| 95° | 215.4 | 207.8 | 177.2 | 146.6 | 177.2 | 207.8 | 215.4 | 282.9 | 372.8 | 417.8 | 352.8 |
| 97.5° | 497.3 | 482.8 | 424.5 | 366.4 | 424.5 | 482.8 | 497.3 | 539.9 | 596.8 | 625.2 | 517.0 |
| 100° | 698.4 | 681.0 | 611.7 | 542.4 | 611.7 | 681.0 | 698.4 | 695.2 | 691.1 | 689.1 | 568.9 |
| 102.5° | 870.1 | 855.2 | 795.9 | 736.5 | 795.9 | 855.2 | 870.1 | 815.8 | 743.3 | 707.1 | 585.2 |
| 105° | 1070.5 | 1062.5 | 1030.6 | 998.7 | 1030.6 | 1062.5 | 1070.5 | 948.7 | 786.3 | 705.1 | 587.1 |
| 107.5° | 1174.7 | 1176.6 | 1184.3 | 1192.1 | 1184.3 | 1176.6 | 1174.7 | 1004.8 | 778.3 | 665.0 | 560.9 |
| 110° | 1201.4 | 1209.7 | 1243.0 | 1276.2 | 1243.0 | 1209.7 | 1201.4 | 1011.5 | 758.2 | 631.6 | 537.8 |



TEST NUMBER: P935250

CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 112.5° | 1184.3 | 1197.1 | 1248.2 | 1299.3 | 1248.2 | 1197.1 | 1184.3 | 989.9 | 730.8 | 601.2 | 517.5 |
| 115° | 1126.6 | 1144.3 | 1215.1 | 1285.9 | 1215.1 | 1144.3 | 1126.6 | 939.3 | 689.7 | 564.8 | 494.4 |
| 117.5° | 1046.8 | 1066.4 | 1144.9 | 1223.5 | 1144.9 | 1066.4 | 1046.8 | 877.8 | 652.4 | 539.8 | 479.9 |
| 120° | 993.0 | 1012.1 | 1088.4 | 1164.7 | 1088.4 | 1012.1 | 993.0 | 838.6 | 632.7 | 529.7 | 475.0 |
| 122.5° | 939.2 | 958.0 | 1033.3 | 1108.5 | 1033.3 | 958.0 | 939.2 | 800.1 | 614.7 | 522.0 | 472.4 |
| 125° | 868.0 | 885.4 | 954.7 | 1024.1 | 954.7 | 885.4 | 868.0 | 749.9 | 592.5 | 513.7 | 470.2 |
| 127.5° | 810.9 | 825.6 | 884.1 | 942.6 | 884.1 | 825.6 | 810.9 | 709.5 | 574.3 | 506.7 | 469.0 |
| 130° | 774.9 | 788.4 | 842.4 | 896.5 | 842.4 | 788.4 | 774.9 | 684.6 | 564.3 | 504.0 | 469.8 |
| 132.5° | 744.1 | 756.3 | 804.6 | 853.0 | 804.6 | 756.3 | 744.1 | 663.3 | 555.5 | 501.6 | 470.2 |
| 135° | 700.7 | 711.1 | 752.8 | 794.6 | 752.8 | 711.1 | 700.7 | 633.0 | 542.8 | 497.7 | 469.8 |
| 137.5° | 668.7 | 677.2 | 711.4 | 745.5 | 711.4 | 677.2 | 668.7 | 611.4 | 535.1 | 497.0 | 472.7 |
| 140° | 643.0 | 650.9 | 682.9 | 714.8 | 682.9 | 650.9 | 643.0 | 593.5 | 527.6 | 494.6 | 473.2 |
| 142.5° | 624.9 | 631.8 | 659.3 | 686.7 | 659.3 | 631.8 | 624.9 | 581.5 | 523.6 | 494.6 | 474.9 |
| 145° | 597.8 | 603.1 | 623.9 | 644.6 | 623.9 | 603.1 | 597.8 | 562.3 | 515.0 | 491.4 | 475.0 |
| 147.5° | 575.2 | 579.5 | 596.7 | 613.9 | 596.7 | 579.5 | 575.2 | 547.2 | 510.0 | 491.4 | 478.2 |
| 150° | 562.1 | 565.6 | 579.5 | 593.5 | 579.5 | 565.6 | 562.1 | 538.5 | 507.1 | 491.4 | 480.0 |
| 152.5° | 551.7 | 554.4 | 564.9 | 575.5 | 564.9 | 554.4 | 551.7 | 531.6 | 504.8 | 491.4 | 481.0 |
| 155° | 539.4 | 541.1 | 548.1 | 555.1 | 548.1 | 541.1 | 539.4 | 523.4 | 502.0 | 491.4 | 483.5 |
| 157.5° | 528.7 | 529.9 | 534.9 | 539.8 | 534.9 | 529.9 | 528.7 | 516.2 | 499.6 | 491.4 | 485.9 |
| 160° | 523.4 | 524.1 | 526.9 | 529.7 | 526.9 | 524.1 | 523.4 | 512.7 | 498.5 | 491.4 | 487.0 |
| 162.5° | 518.3 | 519.0 | 521.7 | 524.4 | 521.7 | 519.0 | 518.3 | 509.3 | 497.4 | 491.4 | 488.2 |
| 165° | 510.7 | 511.4 | 514.2 | 517.1 | 514.2 | 511.4 | 510.7 | 504.3 | 495.7 | 491.4 | 489.9 |
| 167.5° | 507.3 | 507.7 | 508.8 | 510.0 | 508.8 | 507.7 | 507.3 | 503.1 | 497.5 | 494.6 | 493.4 |
| 170° | 507.3 | 507.3 | 507.3 | 507.3 | 507.3 | 507.3 | 507.3 | 503.1 | 497.5 | 494.6 | 494.6 |
| 172.5° | 504.7 | 504.4 | 503.4 | 502.4 | 503.4 | 504.4 | 504.7 | 501.3 | 496.9 | 494.6 | 494.6 |
| 175° | 501.0 | 501.0 | 501.0 | 501.0 | 501.0 | 501.0 | 501.0 | 498.9 | 496.1 | 494.6 | 495.3 |
| 177.5° | 500.3 | 500.0 | 498.9 | 497.7 | 498.9 | 500.0 | 500.3 | 498.7 | 496.4 | 495.3 | 495.9 |
| 180° | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 |



TEST NUMBER: P935250
 CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1121.4 | 1121.4 | 1121.4 | 1121.4 | 1121.4 |
| 2.5° | 1107.7 | 1113.0 | 1116.1 | 1120.3 | 1130.9 |
| 5° | 1065.2 | 1085.3 | 1091.8 | 1107.7 | 1126.8 |
| 7.5° | 971.9 | 1033.4 | 1050.3 | 1088.5 | 1118.3 |
| 10° | 881.6 | 943.2 | 972.9 | 1063.1 | 1107.7 |
| 12.5° | 836.0 | 872.1 | 892.3 | 1018.5 | 1092.8 |
| 15° | 807.4 | 832.9 | 847.7 | 959.1 | 1075.8 |
| 17.5° | 785.1 | 803.2 | 813.8 | 900.7 | 1052.5 |
| 20° | 771.3 | 779.8 | 789.3 | 858.3 | 1025.9 |
| 22.5° | 761.7 | 756.4 | 763.9 | 828.6 | 989.9 |
| 25° | 755.4 | 735.2 | 743.7 | 805.2 | 947.5 |
| 27.5° | 760.7 | 716.1 | 719.3 | 784.0 | 902.9 |
| 30° | 761.7 | 692.8 | 693.9 | 761.7 | 853.0 |
| 32.5° | 754.3 | 668.4 | 669.5 | 734.2 | 796.7 |
| 35° | 736.3 | 639.8 | 638.7 | 702.4 | 720.4 |
| 37.5° | 711.9 | 609.0 | 609.0 | 667.4 | 636.5 |
| 40° | 682.2 | 578.2 | 581.4 | 621.7 | 562.3 |
| 42.5° | 646.1 | 545.3 | 549.6 | 561.2 | 507.2 |
| 45° | 606.8 | 513.5 | 516.7 | 474.3 | 464.7 |
| 47.5° | 563.4 | 480.6 | 481.6 | 393.6 | 450.9 |
| 50° | 511.4 | 446.6 | 442.5 | 337.4 | 449.8 |
| 52.5° | 465.7 | 409.5 | 396.8 | 305.5 | 408.5 |
| 55° | 421.2 | 370.3 | 342.7 | 281.1 | 378.8 |
| 57.5° | 381.9 | 319.4 | 292.9 | 252.5 | 372.4 |
| 60° | 345.9 | 269.5 | 249.3 | 221.7 | 341.6 |
| 62.5° | 316.1 | 232.4 | 228.1 | 200.5 | 309.8 |
| 65° | 284.3 | 206.9 | 205.8 | 182.5 | 263.1 |
| 67.5° | 253.6 | 189.9 | 188.9 | 165.5 | 200.5 |
| 70° | 220.7 | 171.8 | 169.8 | 147.5 | 148.6 |
| 72.5° | 186.7 | 151.7 | 149.6 | 132.7 | 123.1 |
| 75° | 152.8 | 128.4 | 127.3 | 115.6 | 99.7 |
| 77.5° | 119.9 | 101.8 | 104.0 | 93.4 | 73.2 |
| 80° | 85.9 | 74.3 | 76.4 | 66.8 | 55.2 |
| 82.5° | 57.3 | 48.8 | 50.9 | 42.4 | 37.1 |
| 85° | 31.8 | 27.6 | 28.7 | 22.2 | 16.9 |
| 87.5° | 14.9 | 12.8 | 12.8 | 8.5 | 5.3 |
| 90° | 14.7 | 9.3 | 8.7 | 6.0 | 3.4 |
| 92.5° | 90.7 | 64.5 | 58.8 | 36.1 | 13.3 |
| 95° | 223.0 | 125.6 | 115.2 | 73.6 | 32.0 |
| 97.5° | 300.4 | 138.0 | 128.8 | 92.1 | 55.4 |
| 100° | 328.6 | 148.3 | 140.0 | 106.7 | 73.5 |
| 102.5° | 341.5 | 158.7 | 150.9 | 119.9 | 88.8 |
| 105° | 351.1 | 174.0 | 167.4 | 141.2 | 114.9 |
| 107.5° | 352.8 | 196.7 | 190.6 | 166.1 | 141.6 |
| 110° | 350.1 | 209.4 | 203.9 | 181.8 | 159.6 |



TEST NUMBER: P935250

CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 350.3 | 224.8 | 219.5 | 198.4 | 177.4 |
| 115° | 353.5 | 247.8 | 242.9 | 223.5 | 204.0 |
| 117.5° | 360.1 | 270.2 | 265.8 | 248.1 | 230.5 |
| 120° | 365.4 | 283.2 | 279.0 | 262.4 | 245.8 |
| 122.5° | 373.1 | 298.6 | 294.5 | 277.7 | 260.9 |
| 125° | 383.4 | 318.3 | 314.5 | 299.2 | 283.9 |
| 127.5° | 393.8 | 337.3 | 333.5 | 318.0 | 302.6 |
| 130° | 401.3 | 350.0 | 345.9 | 329.2 | 312.6 |
| 132.5° | 407.4 | 360.4 | 356.2 | 339.6 | 323.0 |
| 135° | 414.2 | 372.4 | 368.7 | 353.5 | 338.4 |
| 137.5° | 424.1 | 387.8 | 384.0 | 369.1 | 354.0 |
| 140° | 430.3 | 398.1 | 394.7 | 380.9 | 367.1 |
| 142.5° | 435.5 | 405.8 | 402.6 | 389.9 | 377.1 |
| 145° | 442.1 | 417.5 | 414.7 | 403.6 | 392.4 |
| 147.5° | 451.9 | 432.2 | 429.4 | 418.7 | 407.8 |
| 150° | 457.1 | 439.9 | 437.4 | 427.6 | 417.8 |
| 152.5° | 460.4 | 444.9 | 443.0 | 435.5 | 428.2 |
| 155° | 467.7 | 455.9 | 454.6 | 449.0 | 443.6 |
| 157.5° | 475.1 | 466.9 | 465.6 | 460.3 | 454.9 |
| 160° | 478.4 | 471.9 | 470.9 | 466.8 | 462.6 |
| 162.5° | 482.0 | 477.3 | 476.5 | 473.4 | 470.2 |
| 165° | 487.1 | 484.9 | 484.2 | 481.4 | 478.6 |
| 167.5° | 491.1 | 489.3 | 489.0 | 487.7 | 486.3 |
| 170° | 494.4 | 494.3 | 494.0 | 492.6 | 491.4 |
| 172.5° | 494.6 | 494.6 | 494.6 | 494.3 | 494.0 |
| 175° | 496.7 | 497.7 | 497.7 | 497.7 | 497.7 |
| 177.5° | 496.9 | 497.7 | 497.7 | 497.7 | 497.7 |
| 180° | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 |



TEST NUMBER: P935250
 CATALOG NUMBER: SQ4-FA-100U-100D-930-1D-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 | 12.69 | 13.53 | 13.67 | 14.52 | 15.83 | 15.49 | 16.32 | 16.46 | 17.32 | 18.62 |
| | 3H | 13.16 | 13.92 | 14.15 | 14.92 | 16.25 | 16.82 | 17.57 | 17.81 | 18.57 | 19.90 |
| | 4H | 13.35 | 14.07 | 14.36 | 15.07 | 16.41 | 17.26 | 17.97 | 18.26 | 18.97 | 20.31 |
| | 6H | 13.47 | 14.13 | 14.49 | 15.14 | 16.49 | 17.53 | 18.19 | 18.55 | 19.20 | 20.55 |
| | 8H | 13.47 | 14.10 | 14.49 | 15.12 | 16.47 | 17.60 | 18.22 | 18.62 | 19.25 | 20.60 |
| | 12H | 13.44 | 14.04 | 14.47 | 15.06 | 16.43 | 17.63 | 18.23 | 18.66 | 19.25 | 20.62 |
| 4H | 2H | 13.71 | 14.42 | 14.72 | 15.43 | 16.76 | 15.89 | 16.60 | 16.90 | 17.61 | 18.95 |
| | 3H | 14.73 | 15.33 | 15.75 | 16.36 | 17.71 | 17.39 | 17.98 | 18.41 | 19.01 | 20.36 |
| | 4H | 15.01 | 15.55 | 16.04 | 16.58 | 17.95 | 17.91 | 18.45 | 18.93 | 19.48 | 20.85 |
| | 6H | 15.13 | 15.60 | 16.17 | 16.65 | 18.02 | 18.26 | 18.73 | 19.30 | 19.78 | 21.15 |
| | 8H | 15.14 | 15.58 | 16.18 | 16.62 | 18.00 | 18.37 | 18.80 | 19.40 | 19.84 | 21.23 |
| | 12H | 15.11 | 15.50 | 16.16 | 16.56 | 17.95 | 18.42 | 18.81 | 19.47 | 19.87 | 21.26 |
| 8H | 4H | 15.46 | 15.89 | 16.49 | 16.93 | 18.32 | 18.03 | 18.47 | 19.07 | 19.51 | 20.89 |
| | 6H | 15.72 | 16.08 | 16.78 | 17.16 | 18.54 | 18.46 | 18.82 | 19.52 | 19.90 | 21.28 |
| | 8H | 15.76 | 16.08 | 16.83 | 17.14 | 18.55 | 18.61 | 18.92 | 19.67 | 19.99 | 21.39 |
| | 12H | 15.74 | 16.02 | 16.82 | 17.08 | 18.53 | 18.70 | 18.98 | 19.77 | 20.04 | 21.48 |
| 12H | 4H | 15.46 | 15.85 | 16.52 | 16.91 | 18.30 | 18.00 | 18.39 | 19.05 | 19.45 | 20.84 |
| | 6H | 15.78 | 16.09 | 16.85 | 17.16 | 18.56 | 18.46 | 18.77 | 19.52 | 19.84 | 21.24 |
| | 8H | 15.84 | 16.12 | 16.92 | 17.18 | 18.63 | 18.61 | 18.89 | 19.68 | 19.95 | 21.40 |