

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: P935257

Luminaire Tested: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935257
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-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

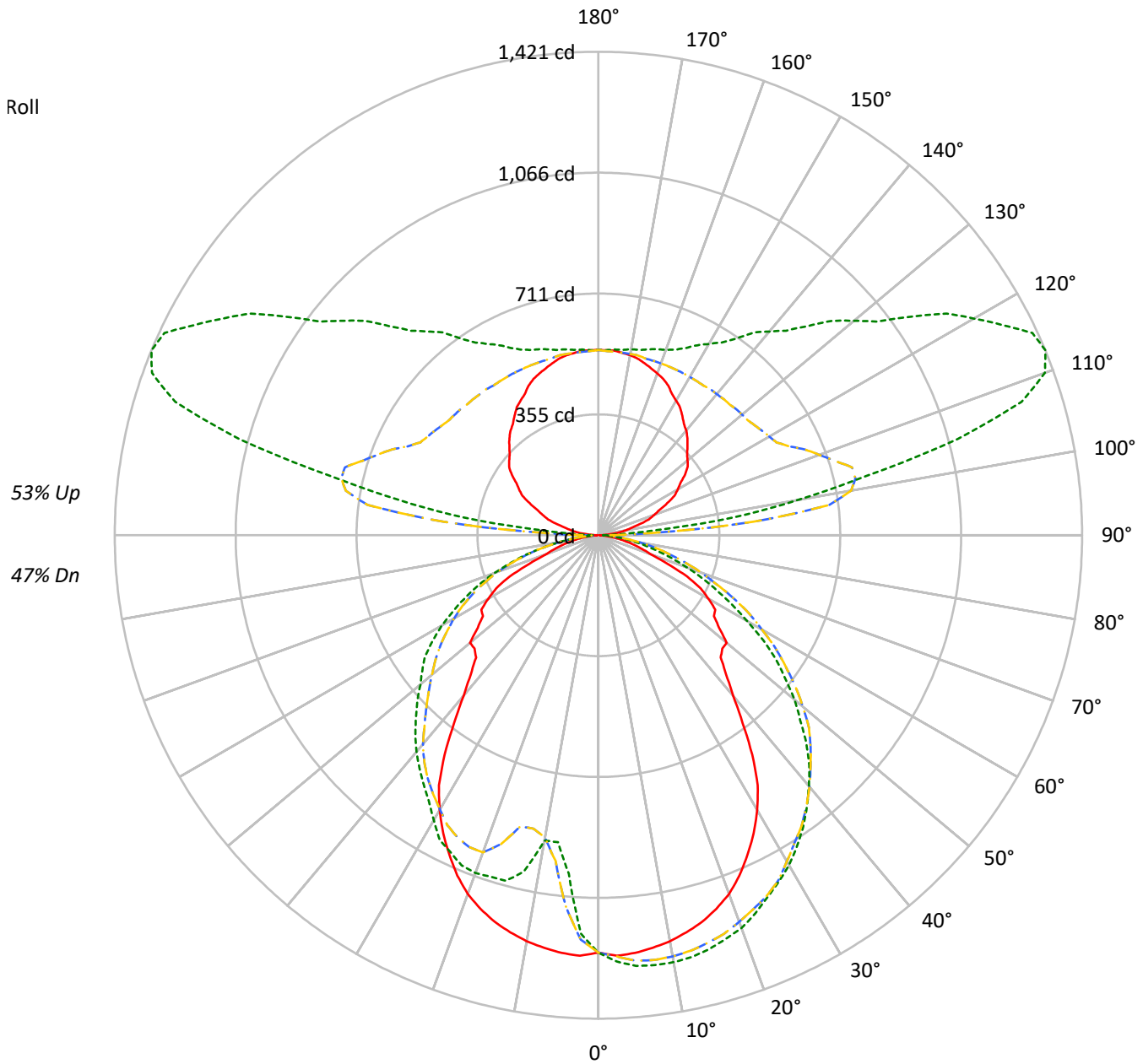
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6711.1 lumens
Efficiency: N/A
Efficacy: 115.7 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: P935257
CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 47 |
| 1 | 97 | 93 | 89 | 86 | 89 | 86 | 82 | 79 | 72 | 70 | 67 | 59 | 58 | 56 | 48 | 47 | 46 | 40 |
| 2 | 89 | 81 | 75 | 70 | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 49 | 47 | 42 | 40 | 38 | 34 |
| 3 | 81 | 71 | 64 | 58 | 74 | 66 | 60 | 54 | 56 | 51 | 47 | 46 | 43 | 40 | 37 | 35 | 33 | 28 |
| 4 | 74 | 63 | 55 | 49 | 68 | 58 | 51 | 46 | 49 | 44 | 40 | 41 | 37 | 34 | 33 | 30 | 28 | 24 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 39 | 44 | 39 | 34 | 37 | 33 | 29 | 30 | 27 | 24 | 21 |
| 6 | 62 | 50 | 42 | 36 | 57 | 47 | 39 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 21 | 19 |
| 7 | 58 | 45 | 37 | 32 | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 21 | 19 | 16 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 27 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 15 | 13 |
| 10 | 46 | 34 | 27 | 22 | 43 | 32 | 26 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 11381 | 11381 | 11381 | 11381 |
| 5° | 11454 | 11490 | 11454 | 9035 |
| 10° | 11365 | 11318 | 11365 | 8092 |
| 15° | 11229 | 11072 | 11229 | 9245 |
| 20° | 10981 | 10782 | 10981 | 9265 |
| 25° | 10488 | 10358 | 10488 | 9068 |
| 30° | 9855 | 10006 | 9855 | 8638 |
| 35° | 8772 | 9562 | 8772 | 8164 |
| 40° | 7298 | 9038 | 7298 | 7806 |
| 45° | 6508 | 8425 | 6508 | 7395 |
| 50° | 6897 | 7694 | 6897 | 6982 |
| 55° | 6471 | 6906 | 6471 | 6742 |
| 60° | 6646 | 5865 | 6646 | 6175 |
| 65° | 5998 | 4848 | 5998 | 5420 |
| 70° | 4125 | 3865 | 4125 | 4543 |
| 75° | 3578 | 2856 | 3578 | 3421 |
| 80° | 2822 | 1888 | 2822 | 2056 |
| 85° | 1532 | 1000 | 1532 | 849 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9993 cd/sqm



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.7 | 1.6 |
| 10°-20° | 314.4 | 4.7 |
| 20°-30° | 486.0 | 7.2 |
| 30°-40° | 580.1 | 8.6 |
| 40°-50° | 583.5 | 8.7 |
| 50°-60° | 507.7 | 7.6 |
| 60°-70° | 360.0 | 5.4 |
| 70°-80° | 190.5 | 2.8 |
| 80°-90° | 49.5 | 0.7 |
| 90°-100° | 265.3 | 4.0 |
| 100°-110° | 697.6 | 10.4 |
| 110°-120° | 723.3 | 10.8 |
| 120°-130° | 580.2 | 8.6 |
| 130°-140° | 455.2 | 6.8 |
| 140°-150° | 349.4 | 5.2 |
| 150°-160° | 251.6 | 3.7 |
| 160°-170° | 154.0 | 2.3 |
| 170°-180° | 52.0 | 0.8 |
| 0°-30° | 911.0 | 13.6 |
| 0°-40° | 1491.2 | 22.2 |
| 0°-60° | 2582.4 | 38.5 |
| 0°-90° | 3182.4 | 47.4 |
| 90°-120° | 1686.2 | 25.1 |
| 90°-150° | 3071.0 | 45.8 |
| 90°-180° | 3529.0 | 52.6 |
| 0°-180° | 6711.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1226 | 1226 | 1226 | 1226 | 1226 | |
| 5° | 1232 | 1271 | 1232 | 999 | 1232 | 117 |
| 15° | 1177 | 1259 | 1177 | 1051 | 1177 | 331 |
| 25° | 1036 | 1174 | 1036 | 1028 | 1036 | 476 |
| 35° | 788 | 1048 | 788 | 895 | 788 | 487 |
| 45° | 508 | 863 | 508 | 758 | 508 | 407 |
| 55° | 414 | 637 | 414 | 622 | 414 | 381 |
| 65° | 288 | 384 | 288 | 429 | 288 | 275 |
| 75° | 109 | 182 | 109 | 218 | 109 | 115 |
| 85° | 18 | 46 | 18 | 39 | 18 | 25 |
| 90° | 4 | 14 | 4 | 14 | 4 | 4 |
| 95° | 35 | 160 | 35 | 160 | 35 | 39 |
| 105° | 126 | 1092 | 126 | 1092 | 126 | 133 |
| 115° | 223 | 1406 | 223 | 1406 | 223 | 220 |
| 125° | 311 | 1120 | 311 | 1120 | 311 | 276 |
| 135° | 370 | 869 | 370 | 869 | 370 | 286 |
| 145° | 429 | 705 | 429 | 705 | 429 | 269 |
| 155° | 485 | 607 | 485 | 607 | 485 | 223 |
| 165° | 524 | 566 | 524 | 566 | 524 | 148 |
| 175° | 544 | 548 | 544 | 548 | 544 | 52 |
| 180° | 544 | 544 | 544 | 544 | 544 | |



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 |
| 2.5° | 1237.0 | 1237.0 | 1244.0 | 1246.3 | 1246.3 | 1242.8 | 1239.4 | 1242.8 | 1253.2 | 1256.8 | 1255.6 |
| 5° | 1232.4 | 1241.7 | 1254.5 | 1256.8 | 1259.0 | 1257.9 | 1255.6 | 1257.9 | 1269.5 | 1271.9 | 1273.0 |
| 7.5° | 1223.1 | 1240.5 | 1256.8 | 1260.3 | 1263.7 | 1260.3 | 1259.0 | 1261.4 | 1273.0 | 1275.3 | 1275.3 |
| 10° | 1211.5 | 1235.9 | 1254.5 | 1256.8 | 1260.3 | 1256.8 | 1256.8 | 1261.4 | 1273.0 | 1275.3 | 1276.5 |
| 12.5° | 1195.3 | 1228.9 | 1246.3 | 1248.7 | 1253.2 | 1252.1 | 1251.0 | 1255.6 | 1267.2 | 1269.5 | 1269.5 |
| 15° | 1176.7 | 1216.2 | 1232.4 | 1234.7 | 1242.8 | 1240.5 | 1240.5 | 1245.2 | 1257.9 | 1261.4 | 1260.3 |
| 17.5° | 1151.2 | 1199.9 | 1218.5 | 1222.0 | 1227.8 | 1226.5 | 1227.8 | 1232.4 | 1244.0 | 1246.3 | 1247.5 |
| 20° | 1122.1 | 1177.9 | 1199.9 | 1203.4 | 1209.2 | 1209.2 | 1209.2 | 1215.0 | 1226.5 | 1231.2 | 1231.2 |
| 22.5° | 1082.7 | 1154.6 | 1177.9 | 1180.2 | 1187.1 | 1187.1 | 1189.5 | 1197.6 | 1208.0 | 1209.2 | 1209.2 |
| 25° | 1036.3 | 1129.1 | 1148.8 | 1155.8 | 1162.8 | 1166.2 | 1169.7 | 1174.4 | 1177.9 | 1176.7 | 1177.9 |
| 27.5° | 987.6 | 1096.6 | 1122.1 | 1126.8 | 1136.1 | 1139.6 | 1144.2 | 1145.4 | 1146.5 | 1150.0 | 1147.7 |
| 30° | 933.0 | 1051.3 | 1089.6 | 1094.3 | 1109.4 | 1111.7 | 1107.1 | 1109.4 | 1115.2 | 1117.6 | 1119.8 |
| 32.5° | 871.5 | 984.0 | 1056.0 | 1066.4 | 1080.4 | 1073.4 | 1072.2 | 1075.7 | 1085.1 | 1085.1 | 1087.3 |
| 35° | 787.9 | 931.9 | 1024.7 | 1033.9 | 1044.4 | 1036.3 | 1040.9 | 1042.1 | 1047.9 | 1051.3 | 1050.2 |
| 37.5° | 696.2 | 886.6 | 992.2 | 999.2 | 1007.2 | 996.8 | 1003.8 | 1007.2 | 1011.9 | 1009.6 | 1009.6 |
| 40° | 615.1 | 815.8 | 953.9 | 958.5 | 965.5 | 957.3 | 964.3 | 966.7 | 968.9 | 966.7 | 965.5 |
| 42.5° | 554.7 | 738.0 | 913.3 | 919.1 | 914.4 | 920.2 | 922.6 | 927.2 | 923.7 | 919.1 | 919.1 |
| 45° | 508.3 | 717.1 | 869.2 | 876.1 | 869.2 | 878.5 | 881.9 | 881.9 | 871.5 | 869.2 | 868.0 |
| 47.5° | 493.2 | 675.4 | 825.1 | 825.1 | 821.6 | 833.2 | 839.0 | 830.9 | 820.4 | 817.0 | 817.0 |
| 50° | 492.0 | 629.0 | 764.7 | 760.1 | 776.3 | 790.3 | 784.5 | 776.3 | 768.2 | 755.4 | 755.4 |
| 52.5° | 446.8 | 572.1 | 687.0 | 704.4 | 730.0 | 738.0 | 728.7 | 720.6 | 706.7 | 700.9 | 696.2 |
| 55° | 414.3 | 512.9 | 616.2 | 651.0 | 677.7 | 688.1 | 670.8 | 662.6 | 641.7 | 638.3 | 635.9 |
| 57.5° | 407.4 | 427.0 | 551.2 | 595.3 | 627.8 | 626.7 | 616.2 | 601.1 | 583.7 | 580.2 | 579.1 |
| 60° | 373.6 | 308.6 | 481.6 | 533.8 | 567.5 | 564.0 | 554.7 | 540.8 | 524.5 | 522.2 | 519.9 |
| 62.5° | 338.8 | 224.0 | 402.7 | 461.9 | 509.4 | 508.3 | 500.2 | 479.3 | 467.7 | 461.9 | 457.2 |
| 65° | 287.8 | 188.0 | 286.6 | 384.1 | 452.6 | 454.9 | 437.5 | 422.4 | 409.6 | 402.7 | 401.5 |
| 67.5° | 219.3 | 153.2 | 193.8 | 320.3 | 398.0 | 395.7 | 373.6 | 366.7 | 350.4 | 346.9 | 340.0 |
| 70° | 162.5 | 102.1 | 134.6 | 260.0 | 344.6 | 338.8 | 321.5 | 313.3 | 298.3 | 290.1 | 285.4 |
| 72.5° | 134.6 | 82.4 | 98.6 | 201.9 | 290.1 | 283.2 | 268.1 | 258.7 | 246.0 | 239.1 | 234.4 |
| 75° | 109.1 | 87.0 | 75.4 | 149.7 | 235.6 | 230.9 | 217.0 | 207.7 | 197.3 | 188.0 | 189.2 |
| 77.5° | 80.1 | 81.2 | 60.3 | 110.2 | 186.8 | 179.9 | 171.7 | 160.1 | 155.5 | 146.2 | 146.2 |
| 80° | 60.3 | 63.9 | 45.2 | 75.4 | 134.6 | 134.6 | 127.6 | 119.5 | 111.4 | 106.8 | 106.8 |
| 82.5° | 40.6 | 40.6 | 33.6 | 47.6 | 91.7 | 88.2 | 83.5 | 81.2 | 76.6 | 74.3 | 74.3 |
| 85° | 18.5 | 23.2 | 20.9 | 29.0 | 49.9 | 52.3 | 52.3 | 49.9 | 48.7 | 46.4 | 47.6 |
| 87.5° | 5.8 | 10.5 | 12.7 | 16.2 | 25.6 | 26.7 | 27.8 | 27.8 | 27.8 | 29.0 | 29.0 |
| 90° | 3.7 | 6.6 | 9.5 | 10.2 | 16.1 | 23.9 | 27.8 | 24.7 | 18.5 | 13.9 | 13.9 |
| 92.5° | 14.6 | 39.4 | 64.3 | 70.5 | 99.2 | 137.3 | 156.3 | 137.0 | 98.4 | 69.4 | 66.7 |
| 95° | 35.0 | 80.5 | 126.0 | 137.4 | 243.9 | 385.9 | 457.0 | 407.8 | 309.4 | 235.6 | 227.3 |
| 97.5° | 60.6 | 100.7 | 140.9 | 150.9 | 328.6 | 565.5 | 683.8 | 652.8 | 590.6 | 543.9 | 528.0 |
| 100° | 80.4 | 116.7 | 153.1 | 162.2 | 359.4 | 622.3 | 753.7 | 756.0 | 760.4 | 763.9 | 744.9 |
| 102.5° | 97.1 | 131.1 | 165.0 | 173.6 | 373.5 | 640.1 | 773.4 | 813.0 | 892.3 | 951.6 | 935.4 |
| 105° | 125.7 | 154.4 | 183.1 | 190.3 | 384.0 | 642.1 | 771.2 | 860.0 | 1037.6 | 1170.9 | 1162.2 |
| 107.5° | 154.9 | 181.7 | 208.5 | 215.2 | 385.9 | 613.5 | 727.3 | 851.2 | 1099.0 | 1284.9 | 1287.0 |
| 110° | 174.6 | 198.8 | 223.0 | 229.1 | 382.9 | 588.2 | 690.8 | 829.3 | 1106.3 | 1314.0 | 1323.2 |



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 112.5° | 194.0 | 217.0 | 240.0 | 245.8 | 383.1 | 566.1 | 657.6 | 799.3 | 1082.8 | 1295.4 | 1309.4 |
| 115° | 223.2 | 244.4 | 265.7 | 271.0 | 386.6 | 540.8 | 617.8 | 754.4 | 1027.4 | 1232.3 | 1251.6 |
| 117.5° | 252.1 | 271.4 | 290.7 | 295.5 | 393.8 | 524.9 | 590.4 | 713.6 | 960.1 | 1145.0 | 1166.4 |
| 120° | 268.8 | 287.0 | 305.2 | 309.8 | 399.6 | 519.5 | 579.4 | 692.0 | 917.2 | 1086.1 | 1107.0 |
| 122.5° | 285.4 | 303.7 | 322.1 | 326.6 | 408.1 | 516.7 | 571.0 | 672.3 | 875.1 | 1027.3 | 1047.8 |
| 125° | 310.6 | 327.3 | 343.9 | 348.2 | 419.4 | 514.3 | 561.8 | 648.0 | 820.2 | 949.4 | 968.4 |
| 127.5° | 330.9 | 347.8 | 364.8 | 369.0 | 430.7 | 513.0 | 554.2 | 628.2 | 776.1 | 887.0 | 903.0 |
| 130° | 341.9 | 360.1 | 378.3 | 382.9 | 439.0 | 513.9 | 551.3 | 617.2 | 748.8 | 847.6 | 862.3 |
| 132.5° | 353.3 | 371.4 | 389.6 | 394.2 | 445.6 | 514.3 | 548.7 | 607.6 | 725.5 | 813.9 | 827.2 |
| 135° | 370.1 | 386.6 | 403.2 | 407.4 | 453.0 | 513.9 | 544.4 | 593.7 | 692.4 | 766.4 | 777.8 |
| 137.5° | 387.2 | 403.7 | 420.0 | 424.1 | 463.9 | 517.1 | 543.6 | 585.3 | 668.7 | 731.4 | 740.7 |
| 140° | 401.5 | 416.6 | 431.7 | 435.5 | 470.7 | 517.6 | 541.0 | 577.0 | 649.2 | 703.3 | 712.0 |
| 142.5° | 412.5 | 426.4 | 440.4 | 443.9 | 476.3 | 519.4 | 541.0 | 572.7 | 636.0 | 683.5 | 691.0 |
| 145° | 429.2 | 441.4 | 453.6 | 456.6 | 483.6 | 519.5 | 537.4 | 563.3 | 615.1 | 653.9 | 659.6 |
| 147.5° | 446.1 | 457.9 | 469.7 | 472.7 | 494.3 | 523.0 | 537.4 | 557.8 | 598.6 | 629.1 | 633.9 |
| 150° | 457.0 | 467.7 | 478.4 | 481.1 | 499.9 | 525.0 | 537.4 | 554.6 | 589.0 | 614.8 | 618.6 |
| 152.5° | 468.3 | 476.4 | 484.6 | 486.6 | 503.5 | 526.1 | 537.4 | 552.1 | 581.4 | 603.5 | 606.4 |
| 155° | 485.2 | 491.1 | 497.2 | 498.7 | 511.6 | 528.8 | 537.4 | 549.1 | 572.5 | 590.0 | 591.9 |
| 157.5° | 497.6 | 503.4 | 509.2 | 510.7 | 519.6 | 531.5 | 537.4 | 546.5 | 564.7 | 578.3 | 579.6 |
| 160° | 506.0 | 510.6 | 515.0 | 516.2 | 523.3 | 532.7 | 537.4 | 545.2 | 560.8 | 572.5 | 573.3 |
| 162.5° | 514.3 | 517.8 | 521.2 | 522.1 | 527.2 | 534.0 | 537.4 | 544.0 | 557.1 | 566.9 | 567.6 |
| 165° | 523.5 | 526.5 | 529.6 | 530.4 | 532.8 | 535.9 | 537.4 | 542.2 | 551.6 | 558.6 | 559.4 |
| 167.5° | 531.9 | 533.4 | 534.9 | 535.2 | 537.2 | 539.7 | 541.0 | 544.1 | 550.3 | 554.9 | 555.3 |
| 170° | 537.4 | 538.8 | 540.3 | 540.7 | 540.8 | 540.9 | 541.0 | 544.1 | 550.3 | 554.9 | 554.9 |
| 172.5° | 540.3 | 540.7 | 540.9 | 541.0 | 541.0 | 541.0 | 541.0 | 543.5 | 548.3 | 552.0 | 551.7 |
| 175° | 544.4 | 544.4 | 544.4 | 544.4 | 543.2 | 541.7 | 541.0 | 542.6 | 545.7 | 548.0 | 548.0 |
| 177.5° | 544.4 | 544.4 | 544.4 | 544.4 | 543.5 | 542.4 | 541.7 | 543.0 | 545.4 | 547.3 | 546.9 |
| 180° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 |



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 |
| 2.5° | 1257.9 | 1254.5 | 1257.9 | 1255.6 | 1256.8 | 1253.2 | 1242.8 | 1239.4 | 1242.8 | 1246.3 | 1246.3 |
| 5° | 1273.0 | 1270.7 | 1273.0 | 1273.0 | 1271.9 | 1269.5 | 1257.9 | 1255.6 | 1257.9 | 1259.0 | 1256.8 |
| 7.5° | 1277.7 | 1274.2 | 1277.7 | 1275.3 | 1275.3 | 1273.0 | 1261.4 | 1259.0 | 1260.3 | 1263.7 | 1260.3 |
| 10° | 1277.7 | 1274.2 | 1277.7 | 1276.5 | 1275.3 | 1273.0 | 1261.4 | 1256.8 | 1256.8 | 1260.3 | 1256.8 |
| 12.5° | 1271.9 | 1269.5 | 1271.9 | 1269.5 | 1269.5 | 1267.2 | 1255.6 | 1251.0 | 1252.1 | 1253.2 | 1248.7 |
| 15° | 1262.6 | 1259.0 | 1262.6 | 1260.3 | 1261.4 | 1257.9 | 1245.2 | 1240.5 | 1240.5 | 1242.8 | 1234.7 |
| 17.5° | 1248.7 | 1244.0 | 1248.7 | 1247.5 | 1246.3 | 1244.0 | 1232.4 | 1227.8 | 1226.5 | 1227.8 | 1222.0 |
| 20° | 1232.4 | 1228.9 | 1232.4 | 1231.2 | 1231.2 | 1226.5 | 1215.0 | 1209.2 | 1209.2 | 1209.2 | 1203.4 |
| 22.5° | 1206.9 | 1203.4 | 1206.9 | 1209.2 | 1209.2 | 1208.0 | 1197.6 | 1189.5 | 1187.1 | 1187.1 | 1180.2 |
| 25° | 1177.9 | 1174.4 | 1177.9 | 1177.9 | 1176.7 | 1177.9 | 1174.4 | 1169.7 | 1166.2 | 1162.8 | 1155.8 |
| 27.5° | 1150.0 | 1147.7 | 1150.0 | 1147.7 | 1150.0 | 1146.5 | 1145.4 | 1144.2 | 1139.6 | 1136.1 | 1126.8 |
| 30° | 1122.1 | 1119.8 | 1122.1 | 1119.8 | 1117.6 | 1115.2 | 1109.4 | 1107.1 | 1111.7 | 1109.4 | 1094.3 |
| 32.5° | 1087.3 | 1085.1 | 1087.3 | 1087.3 | 1085.1 | 1085.1 | 1075.7 | 1072.2 | 1073.4 | 1080.4 | 1066.4 |
| 35° | 1051.3 | 1047.9 | 1051.3 | 1050.2 | 1051.3 | 1047.9 | 1042.1 | 1040.9 | 1036.3 | 1044.4 | 1033.9 |
| 37.5° | 1009.6 | 1006.1 | 1009.6 | 1009.6 | 1009.6 | 1011.9 | 1007.2 | 1003.8 | 996.8 | 1007.2 | 999.2 |
| 40° | 966.7 | 962.0 | 966.7 | 965.5 | 966.7 | 968.9 | 966.7 | 964.3 | 957.3 | 965.5 | 958.5 |
| 42.5° | 917.9 | 916.8 | 917.9 | 919.1 | 919.1 | 923.7 | 927.2 | 922.6 | 920.2 | 914.4 | 919.1 |
| 45° | 865.7 | 863.4 | 865.7 | 868.0 | 869.2 | 871.5 | 881.9 | 881.9 | 878.5 | 869.2 | 876.1 |
| 47.5° | 810.0 | 804.2 | 810.0 | 817.0 | 817.0 | 820.4 | 830.9 | 839.0 | 833.2 | 821.6 | 825.1 |
| 50° | 750.8 | 752.0 | 750.8 | 755.4 | 755.4 | 768.2 | 776.3 | 784.5 | 790.3 | 776.3 | 760.1 |
| 52.5° | 692.8 | 691.7 | 692.8 | 696.2 | 700.9 | 706.7 | 720.6 | 728.7 | 738.0 | 730.0 | 704.4 |
| 55° | 634.7 | 637.1 | 634.7 | 635.9 | 638.3 | 641.7 | 662.6 | 670.8 | 688.1 | 677.7 | 651.0 |
| 57.5° | 576.8 | 573.3 | 576.8 | 579.1 | 580.2 | 583.7 | 601.1 | 616.2 | 626.7 | 627.8 | 595.3 |
| 60° | 509.4 | 504.8 | 509.4 | 519.9 | 522.2 | 524.5 | 540.8 | 554.7 | 564.0 | 567.5 | 533.8 |
| 62.5° | 450.2 | 442.1 | 450.2 | 457.2 | 461.9 | 467.7 | 479.3 | 500.2 | 508.3 | 509.4 | 461.9 |
| 65° | 387.6 | 384.1 | 387.6 | 401.5 | 402.7 | 409.6 | 422.4 | 437.5 | 454.9 | 452.6 | 384.1 |
| 67.5° | 330.8 | 330.8 | 330.8 | 340.0 | 346.9 | 350.4 | 366.7 | 373.6 | 395.7 | 398.0 | 320.3 |
| 70° | 278.5 | 277.4 | 278.5 | 285.4 | 290.1 | 298.3 | 313.3 | 321.5 | 338.8 | 344.6 | 260.0 |
| 72.5° | 228.6 | 227.5 | 228.6 | 234.4 | 239.1 | 246.0 | 258.7 | 268.1 | 283.2 | 290.1 | 201.9 |
| 75° | 184.5 | 182.2 | 184.5 | 189.2 | 188.0 | 197.3 | 207.7 | 217.0 | 230.9 | 235.6 | 149.7 |
| 77.5° | 141.6 | 141.6 | 141.6 | 146.2 | 146.2 | 155.5 | 160.1 | 171.7 | 179.9 | 186.8 | 110.2 |
| 80° | 105.6 | 104.4 | 105.6 | 106.8 | 106.8 | 111.4 | 119.5 | 127.6 | 134.6 | 134.6 | 75.4 |
| 82.5° | 74.3 | 71.9 | 74.3 | 74.3 | 74.3 | 76.6 | 81.2 | 83.5 | 88.2 | 91.7 | 47.6 |
| 85° | 46.4 | 46.4 | 46.4 | 47.6 | 46.4 | 48.7 | 49.9 | 52.3 | 52.3 | 49.9 | 29.0 |
| 87.5° | 30.2 | 29.0 | 30.2 | 29.0 | 29.0 | 27.8 | 27.8 | 27.8 | 26.7 | 25.6 | 16.2 |
| 90° | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 18.5 | 24.7 | 27.8 | 23.9 | 16.1 | 10.2 |
| 92.5° | 55.6 | 44.5 | 55.6 | 66.7 | 69.4 | 98.4 | 137.0 | 156.3 | 137.3 | 99.2 | 70.5 |
| 95° | 193.8 | 160.4 | 193.8 | 227.3 | 235.6 | 309.4 | 407.8 | 457.0 | 385.9 | 243.9 | 137.4 |
| 97.5° | 464.4 | 400.8 | 464.4 | 528.0 | 543.9 | 590.6 | 652.8 | 683.8 | 565.5 | 328.6 | 150.9 |
| 100° | 669.1 | 593.3 | 669.1 | 744.9 | 763.9 | 760.4 | 756.0 | 753.7 | 622.3 | 359.4 | 162.2 |
| 102.5° | 870.5 | 805.6 | 870.5 | 935.4 | 951.6 | 892.3 | 813.0 | 773.4 | 640.1 | 373.5 | 173.6 |
| 105° | 1127.2 | 1092.3 | 1127.2 | 1162.2 | 1170.9 | 1037.6 | 860.0 | 771.2 | 642.1 | 384.0 | 190.3 |
| 107.5° | 1295.4 | 1303.8 | 1295.4 | 1287.0 | 1284.9 | 1099.0 | 851.2 | 727.3 | 613.5 | 385.9 | 215.2 |
| 110° | 1359.5 | 1395.9 | 1359.5 | 1323.2 | 1314.0 | 1106.3 | 829.3 | 690.8 | 588.2 | 382.9 | 229.1 |



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|
| 112.5° | 1365.2 | 1421.1 | 1365.2 | 1309.4 | 1295.4 | 1082.8 | 799.3 | 657.6 | 566.1 | 383.1 | 245.8 |
| 115° | 1329.0 | 1406.5 | 1329.0 | 1251.6 | 1232.3 | 1027.4 | 754.4 | 617.8 | 540.8 | 386.6 | 271.0 |
| 117.5° | 1252.3 | 1338.2 | 1252.3 | 1166.4 | 1145.0 | 960.1 | 713.6 | 590.4 | 524.9 | 393.8 | 295.5 |
| 120° | 1190.4 | 1273.9 | 1190.4 | 1107.0 | 1086.1 | 917.2 | 692.0 | 579.4 | 519.5 | 399.6 | 309.8 |
| 122.5° | 1130.2 | 1212.5 | 1130.2 | 1047.8 | 1027.3 | 875.1 | 672.3 | 571.0 | 516.7 | 408.1 | 326.6 |
| 125° | 1044.2 | 1120.1 | 1044.2 | 968.4 | 949.4 | 820.2 | 648.0 | 561.8 | 514.3 | 419.4 | 348.2 |
| 127.5° | 967.0 | 1030.9 | 967.0 | 903.0 | 887.0 | 776.1 | 628.2 | 554.2 | 513.0 | 430.7 | 369.0 |
| 130° | 921.4 | 980.5 | 921.4 | 862.3 | 847.6 | 748.8 | 617.2 | 551.3 | 513.9 | 439.0 | 382.9 |
| 132.5° | 880.1 | 933.0 | 880.1 | 827.2 | 813.9 | 725.5 | 607.6 | 548.7 | 514.3 | 445.6 | 394.2 |
| 135° | 823.4 | 869.1 | 823.4 | 777.8 | 766.4 | 692.4 | 593.7 | 544.4 | 513.9 | 453.0 | 407.4 |
| 137.5° | 778.1 | 815.4 | 778.1 | 740.7 | 731.4 | 668.7 | 585.3 | 543.6 | 517.1 | 463.9 | 424.1 |
| 140° | 746.9 | 781.8 | 746.9 | 712.0 | 703.3 | 649.2 | 577.0 | 541.0 | 517.6 | 470.7 | 435.5 |
| 142.5° | 721.1 | 751.1 | 721.1 | 691.0 | 683.5 | 636.0 | 572.7 | 541.0 | 519.4 | 476.3 | 443.9 |
| 145° | 682.4 | 705.1 | 682.4 | 659.6 | 653.9 | 615.1 | 563.3 | 537.4 | 519.5 | 483.6 | 456.6 |
| 147.5° | 652.7 | 671.5 | 652.7 | 633.9 | 629.1 | 598.6 | 557.8 | 537.4 | 523.0 | 494.3 | 472.7 |
| 150° | 633.9 | 649.2 | 633.9 | 618.6 | 614.8 | 589.0 | 554.6 | 537.4 | 525.0 | 499.9 | 481.1 |
| 152.5° | 617.9 | 629.5 | 617.9 | 606.4 | 603.5 | 581.4 | 552.1 | 537.4 | 526.1 | 503.5 | 486.6 |
| 155° | 599.5 | 607.2 | 599.5 | 591.9 | 590.0 | 572.5 | 549.1 | 537.4 | 528.8 | 511.6 | 498.7 |
| 157.5° | 585.0 | 590.4 | 585.0 | 579.6 | 578.3 | 564.7 | 546.5 | 537.4 | 531.5 | 519.6 | 510.7 |
| 160° | 576.3 | 579.4 | 576.3 | 573.3 | 572.5 | 560.8 | 545.2 | 537.4 | 532.7 | 523.3 | 516.2 |
| 162.5° | 570.6 | 573.5 | 570.6 | 567.6 | 566.9 | 557.1 | 544.0 | 537.4 | 534.0 | 527.2 | 522.1 |
| 165° | 562.5 | 565.5 | 562.5 | 559.4 | 558.6 | 551.6 | 542.2 | 537.4 | 535.9 | 532.8 | 530.4 |
| 167.5° | 556.5 | 557.8 | 556.5 | 555.3 | 554.9 | 550.3 | 544.1 | 541.0 | 539.7 | 537.2 | 535.2 |
| 170° | 554.9 | 554.9 | 554.9 | 554.9 | 554.9 | 550.3 | 544.1 | 541.0 | 540.9 | 540.8 | 540.7 |
| 172.5° | 550.6 | 549.5 | 550.6 | 551.7 | 552.0 | 548.3 | 543.5 | 541.0 | 541.0 | 541.0 | 541.0 |
| 175° | 548.0 | 548.0 | 548.0 | 548.0 | 548.0 | 545.7 | 542.6 | 541.0 | 541.7 | 543.2 | 544.4 |
| 177.5° | 545.7 | 544.4 | 545.7 | 546.9 | 547.3 | 545.4 | 543.0 | 541.7 | 542.4 | 543.5 | 544.4 |
| 180° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 |



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 |
| 2.5° | 1244.0 | 1237.0 | 1237.0 | 1225.4 | 1220.8 | 1217.3 | 1211.5 | 1194.1 | 1189.5 | 1184.8 | 1191.8 |
| 5° | 1254.5 | 1241.7 | 1232.4 | 1211.5 | 1194.1 | 1187.1 | 1165.1 | 1123.3 | 1095.4 | 1074.6 | 1063.0 |
| 7.5° | 1256.8 | 1240.5 | 1223.1 | 1190.6 | 1148.8 | 1130.3 | 1063.0 | 986.4 | 965.5 | 946.9 | 935.3 |
| 10° | 1254.5 | 1235.9 | 1211.5 | 1162.8 | 1064.1 | 1031.7 | 964.3 | 914.4 | 901.7 | 898.2 | 901.7 |
| 12.5° | 1246.3 | 1228.9 | 1195.3 | 1114.0 | 976.0 | 953.9 | 914.4 | 885.4 | 883.1 | 888.9 | 920.2 |
| 15° | 1232.4 | 1216.2 | 1176.7 | 1049.0 | 927.2 | 911.0 | 883.1 | 872.7 | 885.4 | 926.0 | 1020.1 |
| 17.5° | 1218.5 | 1199.9 | 1151.2 | 985.2 | 890.1 | 878.5 | 858.7 | 879.6 | 951.6 | 1006.1 | 1037.4 |
| 20° | 1199.9 | 1177.9 | 1122.1 | 938.8 | 863.4 | 852.9 | 843.6 | 937.7 | 992.2 | 1011.9 | 1029.3 |
| 22.5° | 1177.9 | 1154.6 | 1082.7 | 906.3 | 835.5 | 827.4 | 833.2 | 970.2 | 992.2 | 1006.1 | 1021.2 |
| 25° | 1148.8 | 1129.1 | 1036.3 | 880.8 | 813.5 | 804.2 | 826.2 | 966.7 | 979.4 | 982.9 | 1013.0 |
| 27.5° | 1122.1 | 1096.6 | 987.6 | 857.6 | 786.8 | 783.3 | 832.0 | 951.6 | 960.9 | 964.3 | 996.8 |
| 30° | 1089.6 | 1051.3 | 933.0 | 833.2 | 758.9 | 757.8 | 833.2 | 933.0 | 930.6 | 940.0 | 972.5 |
| 32.5° | 1056.0 | 984.0 | 871.5 | 803.0 | 732.2 | 731.1 | 825.1 | 905.2 | 902.8 | 915.6 | 940.0 |
| 35° | 1024.7 | 931.9 | 787.9 | 768.2 | 698.6 | 699.7 | 805.3 | 872.7 | 873.8 | 885.4 | 900.5 |
| 37.5° | 992.2 | 886.6 | 696.2 | 730.0 | 666.1 | 666.1 | 778.6 | 842.5 | 840.2 | 843.6 | 864.5 |
| 40° | 953.9 | 815.8 | 615.1 | 680.0 | 635.9 | 632.5 | 746.2 | 810.0 | 801.9 | 800.7 | 829.7 |
| 42.5° | 913.3 | 738.0 | 554.7 | 613.8 | 601.1 | 596.5 | 706.7 | 770.5 | 755.4 | 758.9 | 796.1 |
| 45° | 869.2 | 717.1 | 508.3 | 518.7 | 565.1 | 561.7 | 663.7 | 725.3 | 714.8 | 724.2 | 762.5 |
| 47.5° | 825.1 | 675.4 | 493.2 | 430.5 | 526.8 | 525.7 | 616.2 | 681.2 | 675.4 | 684.6 | 725.3 |
| 50° | 764.7 | 629.0 | 492.0 | 369.1 | 483.9 | 488.5 | 559.3 | 638.3 | 638.3 | 646.3 | 689.3 |
| 52.5° | 687.0 | 572.1 | 446.8 | 334.2 | 434.0 | 447.9 | 509.4 | 601.1 | 603.4 | 611.6 | 649.9 |
| 55° | 616.2 | 512.9 | 414.3 | 307.5 | 374.9 | 405.0 | 460.7 | 562.8 | 567.5 | 575.6 | 610.4 |
| 57.5° | 551.2 | 427.0 | 407.4 | 276.2 | 320.3 | 349.3 | 417.7 | 525.7 | 528.0 | 535.0 | 568.6 |
| 60° | 481.6 | 308.6 | 373.6 | 242.5 | 272.7 | 294.8 | 378.3 | 481.6 | 489.7 | 494.3 | 523.4 |
| 62.5° | 402.7 | 224.0 | 338.8 | 219.3 | 249.5 | 254.2 | 345.8 | 439.8 | 450.2 | 453.7 | 471.1 |
| 65° | 286.6 | 188.0 | 287.8 | 199.6 | 225.1 | 226.3 | 311.0 | 396.9 | 406.1 | 411.9 | 424.7 |
| 67.5° | 193.8 | 153.2 | 219.3 | 181.0 | 206.6 | 207.7 | 277.4 | 346.9 | 359.8 | 364.4 | 372.5 |
| 70° | 134.6 | 102.1 | 162.5 | 161.3 | 185.7 | 188.0 | 241.4 | 301.7 | 313.3 | 316.8 | 321.5 |
| 72.5° | 98.6 | 82.4 | 134.6 | 145.1 | 163.6 | 165.9 | 204.2 | 250.7 | 262.3 | 265.8 | 268.1 |
| 75° | 75.4 | 87.0 | 109.1 | 126.5 | 139.2 | 140.4 | 167.1 | 204.2 | 212.4 | 214.7 | 215.8 |
| 77.5° | 60.3 | 81.2 | 80.1 | 102.1 | 113.7 | 111.4 | 131.1 | 157.8 | 164.8 | 164.8 | 164.8 |
| 80° | 45.2 | 63.9 | 60.3 | 73.1 | 83.5 | 81.2 | 94.0 | 112.6 | 114.9 | 117.2 | 116.0 |
| 82.5° | 33.6 | 40.6 | 40.6 | 46.4 | 55.7 | 53.4 | 62.6 | 73.1 | 73.1 | 73.1 | 75.4 |
| 85° | 20.9 | 23.2 | 18.5 | 24.3 | 31.4 | 30.2 | 34.8 | 39.4 | 40.6 | 40.6 | 38.3 |
| 87.5° | 12.7 | 10.5 | 5.8 | 9.3 | 14.0 | 14.0 | 16.2 | 17.4 | 16.2 | 16.2 | 16.2 |
| 90° | 9.5 | 6.6 | 3.7 | 6.6 | 9.5 | 10.2 | 16.1 | 23.9 | 27.8 | 24.7 | 18.5 |
| 92.5° | 64.3 | 39.4 | 14.6 | 39.4 | 64.3 | 70.5 | 99.2 | 137.3 | 156.3 | 137.0 | 98.4 |
| 95° | 126.0 | 80.5 | 35.0 | 80.5 | 126.0 | 137.4 | 243.9 | 385.9 | 457.0 | 407.8 | 309.4 |
| 97.5° | 140.9 | 100.7 | 60.6 | 100.7 | 140.9 | 150.9 | 328.6 | 565.5 | 683.8 | 652.8 | 590.6 |
| 100° | 153.1 | 116.7 | 80.4 | 116.7 | 153.1 | 162.2 | 359.4 | 622.3 | 753.7 | 756.0 | 760.4 |
| 102.5° | 165.0 | 131.1 | 97.1 | 131.1 | 165.0 | 173.6 | 373.5 | 640.1 | 773.4 | 813.0 | 892.3 |
| 105° | 183.1 | 154.4 | 125.7 | 154.4 | 183.1 | 190.3 | 384.0 | 642.1 | 771.2 | 860.0 | 1037.6 |
| 107.5° | 208.5 | 181.7 | 154.9 | 181.7 | 208.5 | 215.2 | 385.9 | 613.5 | 727.3 | 851.2 | 1099.0 |
| 110° | 223.0 | 198.8 | 174.6 | 198.8 | 223.0 | 229.1 | 382.9 | 588.2 | 690.8 | 829.3 | 1106.3 |



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|
| 112.5° | 240.0 | 217.0 | 194.0 | 217.0 | 240.0 | 245.8 | 383.1 | 566.1 | 657.6 | 799.3 | 1082.8 |
| 115° | 265.7 | 244.4 | 223.2 | 244.4 | 265.7 | 271.0 | 386.6 | 540.8 | 617.8 | 754.4 | 1027.4 |
| 117.5° | 290.7 | 271.4 | 252.1 | 271.4 | 290.7 | 295.5 | 393.8 | 524.9 | 590.4 | 713.6 | 960.1 |
| 120° | 305.2 | 287.0 | 268.8 | 287.0 | 305.2 | 309.8 | 399.6 | 519.5 | 579.4 | 692.0 | 917.2 |
| 122.5° | 322.1 | 303.7 | 285.4 | 303.7 | 322.1 | 326.6 | 408.1 | 516.7 | 571.0 | 672.3 | 875.1 |
| 125° | 343.9 | 327.3 | 310.6 | 327.3 | 343.9 | 348.2 | 419.4 | 514.3 | 561.8 | 648.0 | 820.2 |
| 127.5° | 364.8 | 347.8 | 330.9 | 347.8 | 364.8 | 369.0 | 430.7 | 513.0 | 554.2 | 628.2 | 776.1 |
| 130° | 378.3 | 360.1 | 341.9 | 360.1 | 378.3 | 382.9 | 439.0 | 513.9 | 551.3 | 617.2 | 748.8 |
| 132.5° | 389.6 | 371.4 | 353.3 | 371.4 | 389.6 | 394.2 | 445.6 | 514.3 | 548.7 | 607.6 | 725.5 |
| 135° | 403.2 | 386.6 | 370.1 | 386.6 | 403.2 | 407.4 | 453.0 | 513.9 | 544.4 | 593.7 | 692.4 |
| 137.5° | 420.0 | 403.7 | 387.2 | 403.7 | 420.0 | 424.1 | 463.9 | 517.1 | 543.6 | 585.3 | 668.7 |
| 140° | 431.7 | 416.6 | 401.5 | 416.6 | 431.7 | 435.5 | 470.7 | 517.6 | 541.0 | 577.0 | 649.2 |
| 142.5° | 440.4 | 426.4 | 412.5 | 426.4 | 440.4 | 443.9 | 476.3 | 519.4 | 541.0 | 572.7 | 636.0 |
| 145° | 453.6 | 441.4 | 429.2 | 441.4 | 453.6 | 456.6 | 483.6 | 519.5 | 537.4 | 563.3 | 615.1 |
| 147.5° | 469.7 | 457.9 | 446.1 | 457.9 | 469.7 | 472.7 | 494.3 | 523.0 | 537.4 | 557.8 | 598.6 |
| 150° | 478.4 | 467.7 | 457.0 | 467.7 | 478.4 | 481.1 | 499.9 | 525.0 | 537.4 | 554.6 | 589.0 |
| 152.5° | 484.6 | 476.4 | 468.3 | 476.4 | 484.6 | 486.6 | 503.5 | 526.1 | 537.4 | 552.1 | 581.4 |
| 155° | 497.2 | 491.1 | 485.2 | 491.1 | 497.2 | 498.7 | 511.6 | 528.8 | 537.4 | 549.1 | 572.5 |
| 157.5° | 509.2 | 503.4 | 497.6 | 503.4 | 509.2 | 510.7 | 519.6 | 531.5 | 537.4 | 546.5 | 564.7 |
| 160° | 515.0 | 510.6 | 506.0 | 510.6 | 515.0 | 516.2 | 523.3 | 532.7 | 537.4 | 545.2 | 560.8 |
| 162.5° | 521.2 | 517.8 | 514.3 | 517.8 | 521.2 | 522.1 | 527.2 | 534.0 | 537.4 | 544.0 | 557.1 |
| 165° | 529.6 | 526.5 | 523.5 | 526.5 | 529.6 | 530.4 | 532.8 | 535.9 | 537.4 | 542.2 | 551.6 |
| 167.5° | 534.9 | 533.4 | 531.9 | 533.4 | 534.9 | 535.2 | 537.2 | 539.7 | 541.0 | 544.1 | 550.3 |
| 170° | 540.3 | 538.8 | 537.4 | 538.8 | 540.3 | 540.7 | 540.8 | 540.9 | 541.0 | 544.1 | 550.3 |
| 172.5° | 540.9 | 540.7 | 540.3 | 540.7 | 540.9 | 541.0 | 541.0 | 541.0 | 541.0 | 543.5 | 548.3 |
| 175° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 543.2 | 541.7 | 541.0 | 542.6 | 545.7 |
| 177.5° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 543.5 | 542.4 | 541.7 | 543.0 | 545.4 |
| 180° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 |



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 |
| 2.5° | 1183.7 | 1180.2 | 1184.8 | 1172.0 | 1184.8 | 1180.2 | 1183.7 | 1191.8 | 1184.8 | 1189.5 | 1194.1 |
| 5° | 1038.6 | 1032.8 | 1014.3 | 999.2 | 1014.3 | 1032.8 | 1038.6 | 1063.0 | 1074.6 | 1095.4 | 1123.3 |
| 7.5° | 928.4 | 923.7 | 919.1 | 909.7 | 919.1 | 923.7 | 928.4 | 935.3 | 946.9 | 965.5 | 986.4 |
| 10° | 903.9 | 905.2 | 912.1 | 911.0 | 912.1 | 905.2 | 903.9 | 901.7 | 898.2 | 901.7 | 914.4 |
| 12.5° | 966.7 | 977.1 | 1015.4 | 1013.0 | 1015.4 | 977.1 | 966.7 | 920.2 | 888.9 | 883.1 | 885.4 |
| 15° | 1038.6 | 1042.1 | 1050.2 | 1051.3 | 1050.2 | 1042.1 | 1038.6 | 1020.1 | 926.0 | 885.4 | 872.7 |
| 17.5° | 1045.5 | 1046.8 | 1052.6 | 1052.6 | 1052.6 | 1046.8 | 1045.5 | 1037.4 | 1006.1 | 951.6 | 879.6 |
| 20° | 1039.7 | 1042.1 | 1053.7 | 1056.0 | 1053.7 | 1042.1 | 1039.7 | 1029.3 | 1011.9 | 992.2 | 937.7 |
| 22.5° | 1037.4 | 1042.1 | 1051.3 | 1050.2 | 1051.3 | 1042.1 | 1037.4 | 1021.2 | 1006.1 | 992.2 | 970.2 |
| 25° | 1025.9 | 1025.9 | 1027.0 | 1028.1 | 1027.0 | 1025.9 | 1025.9 | 1013.0 | 982.9 | 979.4 | 966.7 |
| 27.5° | 1001.4 | 1003.8 | 1010.7 | 1009.6 | 1010.7 | 1003.8 | 1001.4 | 996.8 | 964.3 | 960.9 | 951.6 |
| 30° | 979.4 | 977.1 | 971.3 | 966.7 | 971.3 | 977.1 | 979.4 | 972.5 | 940.0 | 930.6 | 933.0 |
| 32.5° | 942.2 | 936.4 | 930.6 | 927.2 | 930.6 | 936.4 | 942.2 | 940.0 | 915.6 | 902.8 | 905.2 |
| 35° | 898.2 | 899.4 | 898.2 | 894.7 | 898.2 | 899.4 | 898.2 | 900.5 | 885.4 | 873.8 | 872.7 |
| 37.5° | 866.9 | 869.2 | 868.0 | 863.4 | 868.0 | 869.2 | 866.9 | 864.5 | 843.6 | 840.2 | 842.5 |
| 40° | 834.4 | 835.5 | 834.4 | 830.9 | 834.4 | 835.5 | 834.4 | 829.7 | 800.7 | 801.9 | 810.0 |
| 42.5° | 803.0 | 801.9 | 798.4 | 796.1 | 798.4 | 801.9 | 803.0 | 796.1 | 758.9 | 755.4 | 770.5 |
| 45° | 767.0 | 768.2 | 761.2 | 757.8 | 761.2 | 768.2 | 767.0 | 762.5 | 724.2 | 714.8 | 725.3 |
| 47.5° | 731.1 | 731.1 | 725.3 | 721.8 | 725.3 | 731.1 | 731.1 | 725.3 | 684.6 | 675.4 | 681.2 |
| 50° | 692.8 | 691.7 | 683.5 | 682.4 | 683.5 | 691.7 | 692.8 | 689.3 | 646.3 | 638.3 | 638.3 |
| 52.5° | 648.7 | 648.7 | 649.9 | 652.1 | 649.9 | 648.7 | 648.7 | 649.9 | 611.6 | 603.4 | 601.1 |
| 55° | 610.4 | 611.6 | 619.6 | 622.0 | 619.6 | 611.6 | 610.4 | 610.4 | 575.6 | 567.5 | 562.8 |
| 57.5° | 570.9 | 570.9 | 576.8 | 576.8 | 576.8 | 570.9 | 570.9 | 568.6 | 535.0 | 528.0 | 525.7 |
| 60° | 525.7 | 528.0 | 532.6 | 531.5 | 532.6 | 528.0 | 525.7 | 523.4 | 494.3 | 489.7 | 481.6 |
| 62.5° | 478.1 | 480.4 | 481.6 | 479.3 | 481.6 | 480.4 | 478.1 | 471.1 | 453.7 | 450.2 | 439.8 |
| 65° | 428.2 | 430.5 | 431.7 | 429.4 | 431.7 | 430.5 | 428.2 | 424.7 | 411.9 | 406.1 | 396.9 |
| 67.5° | 377.1 | 376.0 | 374.9 | 379.4 | 374.9 | 376.0 | 377.1 | 372.5 | 364.4 | 359.8 | 346.9 |
| 70° | 324.9 | 324.9 | 323.7 | 326.1 | 323.7 | 324.9 | 324.9 | 321.5 | 316.8 | 313.3 | 301.7 |
| 72.5° | 269.2 | 268.1 | 272.7 | 269.2 | 272.7 | 268.1 | 269.2 | 268.1 | 265.8 | 262.3 | 250.7 |
| 75° | 214.7 | 217.0 | 214.7 | 218.2 | 214.7 | 217.0 | 214.7 | 215.8 | 214.7 | 212.4 | 204.2 |
| 77.5° | 163.6 | 165.9 | 163.6 | 163.6 | 163.6 | 165.9 | 163.6 | 164.8 | 164.8 | 164.8 | 157.8 |
| 80° | 116.0 | 114.9 | 114.9 | 113.7 | 114.9 | 114.9 | 116.0 | 116.0 | 117.2 | 114.9 | 112.6 |
| 82.5° | 74.3 | 73.1 | 73.1 | 75.4 | 73.1 | 73.1 | 74.3 | 75.4 | 73.1 | 73.1 | 73.1 |
| 85° | 40.6 | 41.8 | 39.4 | 39.4 | 39.4 | 41.8 | 40.6 | 38.3 | 40.6 | 40.6 | 39.4 |
| 87.5° | 15.1 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 15.1 | 16.2 | 16.2 | 16.2 | 17.4 |
| 90° | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 18.5 | 24.7 | 27.8 | 23.9 |
| 92.5° | 69.4 | 66.7 | 55.6 | 44.5 | 55.6 | 66.7 | 69.4 | 98.4 | 137.0 | 156.3 | 137.3 |
| 95° | 235.6 | 227.3 | 193.8 | 160.4 | 193.8 | 227.3 | 235.6 | 309.4 | 407.8 | 457.0 | 385.9 |
| 97.5° | 543.9 | 528.0 | 464.4 | 400.8 | 464.4 | 528.0 | 543.9 | 590.6 | 652.8 | 683.8 | 565.5 |
| 100° | 763.9 | 744.9 | 669.1 | 593.3 | 669.1 | 744.9 | 763.9 | 760.4 | 756.0 | 753.7 | 622.3 |
| 102.5° | 951.6 | 935.4 | 870.5 | 805.6 | 870.5 | 935.4 | 951.6 | 892.3 | 813.0 | 773.4 | 640.1 |
| 105° | 1170.9 | 1162.2 | 1127.2 | 1092.3 | 1127.2 | 1162.2 | 1170.9 | 1037.6 | 860.0 | 771.2 | 642.1 |
| 107.5° | 1284.9 | 1287.0 | 1295.4 | 1303.8 | 1295.4 | 1287.0 | 1284.9 | 1099.0 | 851.2 | 727.3 | 613.5 |
| 110° | 1314.0 | 1323.2 | 1359.5 | 1395.9 | 1359.5 | 1323.2 | 1314.0 | 1106.3 | 829.3 | 690.8 | 588.2 |



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 112.5° | 1295.4 | 1309.4 | 1365.2 | 1421.1 | 1365.2 | 1309.4 | 1295.4 | 1082.8 | 799.3 | 657.6 | 566.1 |
| 115° | 1232.3 | 1251.6 | 1329.0 | 1406.5 | 1329.0 | 1251.6 | 1232.3 | 1027.4 | 754.4 | 617.8 | 540.8 |
| 117.5° | 1145.0 | 1166.4 | 1252.3 | 1338.2 | 1252.3 | 1166.4 | 1145.0 | 960.1 | 713.6 | 590.4 | 524.9 |
| 120° | 1086.1 | 1107.0 | 1190.4 | 1273.9 | 1190.4 | 1107.0 | 1086.1 | 917.2 | 692.0 | 579.4 | 519.5 |
| 122.5° | 1027.3 | 1047.8 | 1130.2 | 1212.5 | 1130.2 | 1047.8 | 1027.3 | 875.1 | 672.3 | 571.0 | 516.7 |
| 125° | 949.4 | 968.4 | 1044.2 | 1120.1 | 1044.2 | 968.4 | 949.4 | 820.2 | 648.0 | 561.8 | 514.3 |
| 127.5° | 887.0 | 903.0 | 967.0 | 1030.9 | 967.0 | 903.0 | 887.0 | 776.1 | 628.2 | 554.2 | 513.0 |
| 130° | 847.6 | 862.3 | 921.4 | 980.5 | 921.4 | 862.3 | 847.6 | 748.8 | 617.2 | 551.3 | 513.9 |
| 132.5° | 813.9 | 827.2 | 880.1 | 933.0 | 880.1 | 827.2 | 813.9 | 725.5 | 607.6 | 548.7 | 514.3 |
| 135° | 766.4 | 777.8 | 823.4 | 869.1 | 823.4 | 777.8 | 766.4 | 692.4 | 593.7 | 544.4 | 513.9 |
| 137.5° | 731.4 | 740.7 | 778.1 | 815.4 | 778.1 | 740.7 | 731.4 | 668.7 | 585.3 | 543.6 | 517.1 |
| 140° | 703.3 | 712.0 | 746.9 | 781.8 | 746.9 | 712.0 | 703.3 | 649.2 | 577.0 | 541.0 | 517.6 |
| 142.5° | 683.5 | 691.0 | 721.1 | 751.1 | 721.1 | 691.0 | 683.5 | 636.0 | 572.7 | 541.0 | 519.4 |
| 145° | 653.9 | 659.6 | 682.4 | 705.1 | 682.4 | 659.6 | 653.9 | 615.1 | 563.3 | 537.4 | 519.5 |
| 147.5° | 629.1 | 633.9 | 652.7 | 671.5 | 652.7 | 633.9 | 629.1 | 598.6 | 557.8 | 537.4 | 523.0 |
| 150° | 614.8 | 618.6 | 633.9 | 649.2 | 633.9 | 618.6 | 614.8 | 589.0 | 554.6 | 537.4 | 525.0 |
| 152.5° | 603.5 | 606.4 | 617.9 | 629.5 | 617.9 | 606.4 | 603.5 | 581.4 | 552.1 | 537.4 | 526.1 |
| 155° | 590.0 | 591.9 | 599.5 | 607.2 | 599.5 | 591.9 | 590.0 | 572.5 | 549.1 | 537.4 | 528.8 |
| 157.5° | 578.3 | 579.6 | 585.0 | 590.4 | 585.0 | 579.6 | 578.3 | 564.7 | 546.5 | 537.4 | 531.5 |
| 160° | 572.5 | 573.3 | 576.3 | 579.4 | 576.3 | 573.3 | 572.5 | 560.8 | 545.2 | 537.4 | 532.7 |
| 162.5° | 566.9 | 567.6 | 570.6 | 573.5 | 570.6 | 567.6 | 566.9 | 557.1 | 544.0 | 537.4 | 534.0 |
| 165° | 558.6 | 559.4 | 562.5 | 565.5 | 562.5 | 559.4 | 558.6 | 551.6 | 542.2 | 537.4 | 535.9 |
| 167.5° | 554.9 | 555.3 | 556.5 | 557.8 | 556.5 | 555.3 | 554.9 | 550.3 | 544.1 | 541.0 | 539.7 |
| 170° | 554.9 | 554.9 | 554.9 | 554.9 | 554.9 | 554.9 | 554.9 | 550.3 | 544.1 | 541.0 | 540.9 |
| 172.5° | 552.0 | 551.7 | 550.6 | 549.5 | 550.6 | 551.7 | 552.0 | 548.3 | 543.5 | 541.0 | 541.0 |
| 175° | 548.0 | 548.0 | 548.0 | 548.0 | 548.0 | 548.0 | 548.0 | 545.7 | 542.6 | 541.0 | 541.7 |
| 177.5° | 547.3 | 546.9 | 545.7 | 544.4 | 545.7 | 546.9 | 547.3 | 545.4 | 543.0 | 541.7 | 542.4 |
| 180° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 |



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 |
| 2.5° | 1211.5 | 1217.3 | 1220.8 | 1225.4 | 1237.0 |
| 5° | 1165.1 | 1187.1 | 1194.1 | 1211.5 | 1232.4 |
| 7.5° | 1063.0 | 1130.3 | 1148.8 | 1190.6 | 1223.1 |
| 10° | 964.3 | 1031.7 | 1064.1 | 1162.8 | 1211.5 |
| 12.5° | 914.4 | 953.9 | 976.0 | 1114.0 | 1195.3 |
| 15° | 883.1 | 911.0 | 927.2 | 1049.0 | 1176.7 |
| 17.5° | 858.7 | 878.5 | 890.1 | 985.2 | 1151.2 |
| 20° | 843.6 | 852.9 | 863.4 | 938.8 | 1122.1 |
| 22.5° | 833.2 | 827.4 | 835.5 | 906.3 | 1082.7 |
| 25° | 826.2 | 804.2 | 813.5 | 880.8 | 1036.3 |
| 27.5° | 832.0 | 783.3 | 786.8 | 857.6 | 987.6 |
| 30° | 833.2 | 757.8 | 758.9 | 833.2 | 933.0 |
| 32.5° | 825.1 | 731.1 | 732.2 | 803.0 | 871.5 |
| 35° | 805.3 | 699.7 | 698.6 | 768.2 | 787.9 |
| 37.5° | 778.6 | 666.1 | 666.1 | 730.0 | 696.2 |
| 40° | 746.2 | 632.5 | 635.9 | 680.0 | 615.1 |
| 42.5° | 706.7 | 596.5 | 601.1 | 613.8 | 554.7 |
| 45° | 663.7 | 561.7 | 565.1 | 518.7 | 508.3 |
| 47.5° | 616.2 | 525.7 | 526.8 | 430.5 | 493.2 |
| 50° | 559.3 | 488.5 | 483.9 | 369.1 | 492.0 |
| 52.5° | 509.4 | 447.9 | 434.0 | 334.2 | 446.8 |
| 55° | 460.7 | 405.0 | 374.9 | 307.5 | 414.3 |
| 57.5° | 417.7 | 349.3 | 320.3 | 276.2 | 407.4 |
| 60° | 378.3 | 294.8 | 272.7 | 242.5 | 373.6 |
| 62.5° | 345.8 | 254.2 | 249.5 | 219.3 | 338.8 |
| 65° | 311.0 | 226.3 | 225.1 | 199.6 | 287.8 |
| 67.5° | 277.4 | 207.7 | 206.6 | 181.0 | 219.3 |
| 70° | 241.4 | 188.0 | 185.7 | 161.3 | 162.5 |
| 72.5° | 204.2 | 165.9 | 163.6 | 145.1 | 134.6 |
| 75° | 167.1 | 140.4 | 139.2 | 126.5 | 109.1 |
| 77.5° | 131.1 | 111.4 | 113.7 | 102.1 | 80.1 |
| 80° | 94.0 | 81.2 | 83.5 | 73.1 | 60.3 |
| 82.5° | 62.6 | 53.4 | 55.7 | 46.4 | 40.6 |
| 85° | 34.8 | 30.2 | 31.4 | 24.3 | 18.5 |
| 87.5° | 16.2 | 14.0 | 14.0 | 9.3 | 5.8 |
| 90° | 16.1 | 10.2 | 9.5 | 6.6 | 3.7 |
| 92.5° | 99.2 | 70.5 | 64.3 | 39.4 | 14.6 |
| 95° | 243.9 | 137.4 | 126.0 | 80.5 | 35.0 |
| 97.5° | 328.6 | 150.9 | 140.9 | 100.7 | 60.6 |
| 100° | 359.4 | 162.2 | 153.1 | 116.7 | 80.4 |
| 102.5° | 373.5 | 173.6 | 165.0 | 131.1 | 97.1 |
| 105° | 384.0 | 190.3 | 183.1 | 154.4 | 125.7 |
| 107.5° | 385.9 | 215.2 | 208.5 | 181.7 | 154.9 |
| 110° | 382.9 | 229.1 | 223.0 | 198.8 | 174.6 |



TEST NUMBER: P935257

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 383.1 | 245.8 | 240.0 | 217.0 | 194.0 |
| 115° | 386.6 | 271.0 | 265.7 | 244.4 | 223.2 |
| 117.5° | 393.8 | 295.5 | 290.7 | 271.4 | 252.1 |
| 120° | 399.6 | 309.8 | 305.2 | 287.0 | 268.8 |
| 122.5° | 408.1 | 326.6 | 322.1 | 303.7 | 285.4 |
| 125° | 419.4 | 348.2 | 343.9 | 327.3 | 310.6 |
| 127.5° | 430.7 | 369.0 | 364.8 | 347.8 | 330.9 |
| 130° | 439.0 | 382.9 | 378.3 | 360.1 | 341.9 |
| 132.5° | 445.6 | 394.2 | 389.6 | 371.4 | 353.3 |
| 135° | 453.0 | 407.4 | 403.2 | 386.6 | 370.1 |
| 137.5° | 463.9 | 424.1 | 420.0 | 403.7 | 387.2 |
| 140° | 470.7 | 435.5 | 431.7 | 416.6 | 401.5 |
| 142.5° | 476.3 | 443.9 | 440.4 | 426.4 | 412.5 |
| 145° | 483.6 | 456.6 | 453.6 | 441.4 | 429.2 |
| 147.5° | 494.3 | 472.7 | 469.7 | 457.9 | 446.1 |
| 150° | 499.9 | 481.1 | 478.4 | 467.7 | 457.0 |
| 152.5° | 503.5 | 486.6 | 484.6 | 476.4 | 468.3 |
| 155° | 511.6 | 498.7 | 497.2 | 491.1 | 485.2 |
| 157.5° | 519.6 | 510.7 | 509.2 | 503.4 | 497.6 |
| 160° | 523.3 | 516.2 | 515.0 | 510.6 | 506.0 |
| 162.5° | 527.2 | 522.1 | 521.2 | 517.8 | 514.3 |
| 165° | 532.8 | 530.4 | 529.6 | 526.5 | 523.5 |
| 167.5° | 537.2 | 535.2 | 534.9 | 533.4 | 531.9 |
| 170° | 540.8 | 540.7 | 540.3 | 538.8 | 537.4 |
| 172.5° | 541.0 | 541.0 | 540.9 | 540.7 | 540.3 |
| 175° | 543.2 | 544.4 | 544.4 | 544.4 | 544.4 |
| 177.5° | 543.5 | 544.4 | 544.4 | 544.4 | 544.4 |
| 180° | 544.4 | 544.4 | 544.4 | 544.4 | 544.4 |



TEST NUMBER: P935257
 CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3000K

CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 13.00 | 13.84 | 13.98 | 14.83 | 16.14 | 15.80 | 16.64 | 16.78 | 17.63 | 18.94 |
| | 3H | 13.47 | 14.23 | 14.46 | 15.23 | 16.56 | 17.13 | 17.88 | 18.12 | 18.88 | 20.21 |
| | 4H | 13.67 | 14.38 | 14.67 | 15.38 | 16.72 | 17.57 | 18.28 | 18.57 | 19.28 | 20.62 |
| | 6H | 13.78 | 14.44 | 14.80 | 15.45 | 16.80 | 17.84 | 18.50 | 18.86 | 19.51 | 20.86 |
| | 8H | 13.78 | 14.41 | 14.80 | 15.43 | 16.78 | 17.91 | 18.54 | 18.93 | 19.56 | 20.91 |
| | 12H | 13.75 | 14.35 | 14.78 | 15.37 | 16.74 | 17.95 | 18.54 | 18.97 | 19.56 | 20.93 |
| 4H | 2H | 14.02 | 14.73 | 15.03 | 15.74 | 17.07 | 16.21 | 16.92 | 17.21 | 17.92 | 19.26 |
| | 3H | 15.05 | 15.64 | 16.06 | 16.67 | 18.02 | 17.70 | 18.29 | 18.72 | 19.33 | 20.68 |
| | 4H | 15.32 | 15.86 | 16.35 | 16.89 | 18.26 | 18.22 | 18.76 | 19.25 | 19.79 | 21.16 |
| | 6H | 15.45 | 15.91 | 16.48 | 16.96 | 18.33 | 18.58 | 19.04 | 19.61 | 20.09 | 21.46 |
| | 8H | 15.45 | 15.89 | 16.49 | 16.93 | 18.31 | 18.68 | 19.11 | 19.72 | 20.15 | 21.54 |
| | 12H | 15.42 | 15.81 | 16.47 | 16.87 | 18.26 | 18.73 | 19.12 | 19.78 | 20.18 | 21.57 |
| 8H | 4H | 15.77 | 16.20 | 16.81 | 17.25 | 18.63 | 18.34 | 18.78 | 19.38 | 19.82 | 21.21 |
| | 6H | 16.03 | 16.39 | 17.09 | 17.47 | 18.85 | 18.77 | 19.13 | 19.83 | 20.21 | 21.60 |
| | 8H | 16.07 | 16.39 | 17.14 | 17.46 | 18.86 | 18.92 | 19.23 | 19.99 | 20.30 | 21.70 |
| | 12H | 16.05 | 16.33 | 17.13 | 17.40 | 18.84 | 19.01 | 19.29 | 20.08 | 20.35 | 21.79 |
| 12H | 4H | 15.77 | 16.17 | 16.83 | 17.22 | 18.61 | 18.31 | 18.70 | 19.36 | 19.76 | 21.15 |
| | 6H | 16.09 | 16.40 | 17.16 | 17.47 | 18.87 | 18.77 | 19.08 | 19.84 | 20.15 | 21.55 |
| | 8H | 16.15 | 16.43 | 17.23 | 17.49 | 18.94 | 18.92 | 19.20 | 20.00 | 20.26 | 21.71 |