

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: P934858

Luminaire Tested: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934858
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

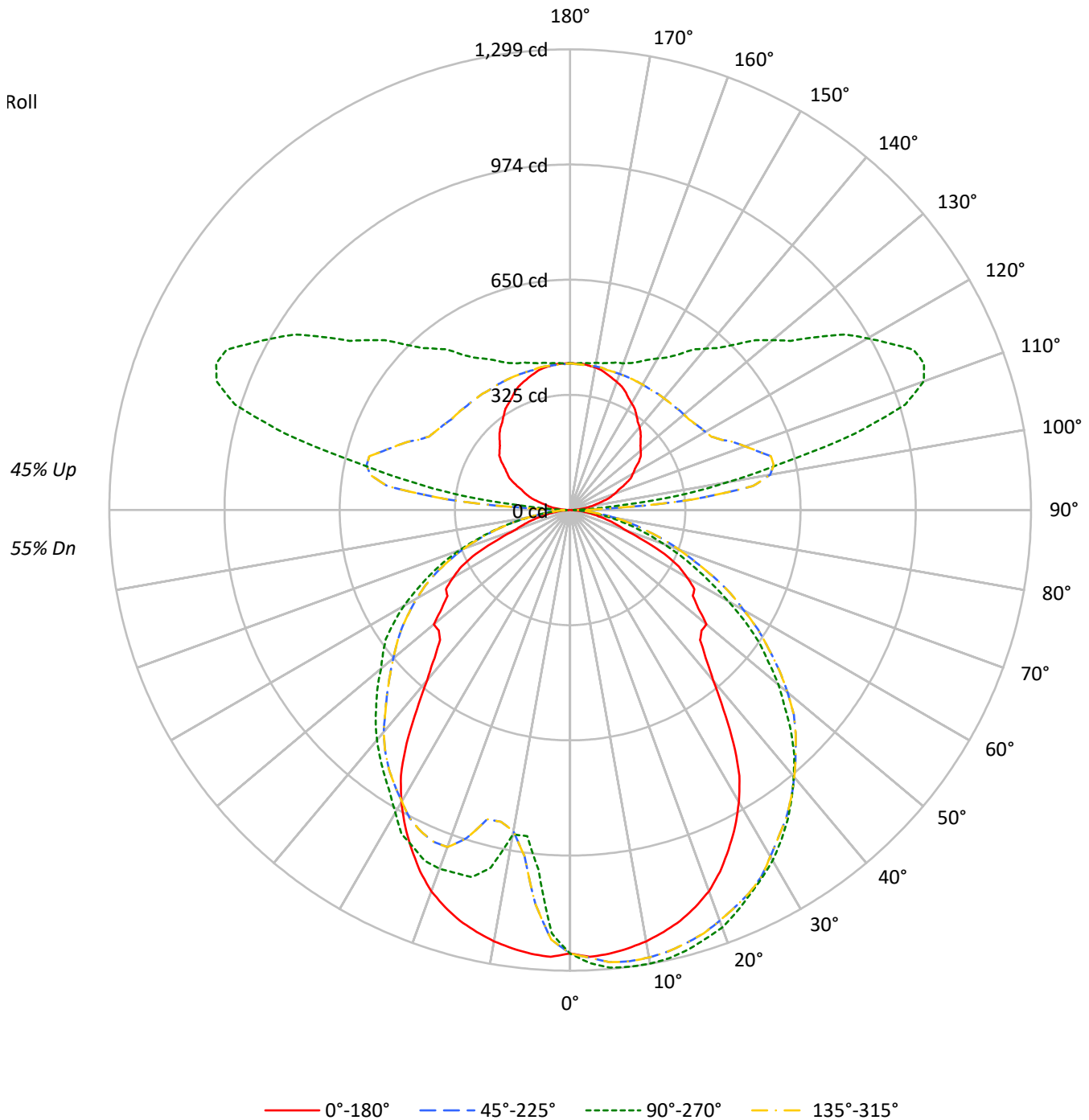
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5924.3 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): 51.2
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: P934858
CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 73 | 73 | 73 | 60 | 60 | 60 | 55 |
| 1 | 99 | 95 | 91 | 87 | 92 | 88 | 85 | 82 | 76 | 73 | 71 | 64 | 62 | 61 | 54 | 52 | 51 | 46 |
| 2 | 90 | 83 | 76 | 71 | 83 | 77 | 72 | 67 | 66 | 62 | 59 | 56 | 53 | 51 | 47 | 45 | 43 | 39 |
| 3 | 82 | 73 | 65 | 59 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 |
| 4 | 75 | 64 | 56 | 50 | 69 | 60 | 53 | 47 | 52 | 46 | 42 | 44 | 40 | 37 | 37 | 34 | 32 | 28 |
| 5 | 69 | 57 | 49 | 43 | 64 | 54 | 46 | 41 | 46 | 41 | 36 | 40 | 35 | 32 | 34 | 30 | 28 | 24 |
| 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 42 | 36 | 32 | 36 | 31 | 28 | 30 | 27 | 24 | 21 |
| 7 | 59 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 21 | 19 |
| 8 | 55 | 42 | 34 | 29 | 51 | 39 | 32 | 27 | 35 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |
| 9 | 51 | 38 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 27 | 23 | 20 | 24 | 20 | 17 | 15 |
| 10 | 47 | 35 | 28 | 23 | 44 | 33 | 26 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 22 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 11602 | 11602 | 11602 | 11602 |
| 5° | 11676 | 11712 | 11676 | 9209 |
| 10° | 11586 | 11536 | 11586 | 8248 |
| 15° | 11445 | 11286 | 11445 | 9425 |
| 20° | 11194 | 10991 | 11194 | 9444 |
| 25° | 10691 | 10559 | 10691 | 9245 |
| 30° | 10046 | 10200 | 10046 | 8805 |
| 35° | 8942 | 9747 | 8942 | 8323 |
| 40° | 7439 | 9213 | 7439 | 7957 |
| 45° | 6633 | 8588 | 6633 | 7538 |
| 50° | 7032 | 7843 | 7032 | 7117 |
| 55° | 6596 | 7040 | 6596 | 6873 |
| 60° | 6776 | 5978 | 6776 | 6295 |
| 65° | 6114 | 4942 | 6114 | 5525 |
| 70° | 4204 | 3938 | 4204 | 4631 |
| 75° | 3647 | 2911 | 3647 | 3487 |
| 80° | 2878 | 1926 | 2878 | 2095 |
| 85° | 1565 | 1019 | 1565 | 866 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10186 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.9 | 1.9 |
| 10°-20° | 320.5 | 5.4 |
| 20°-30° | 495.4 | 8.4 |
| 30°-40° | 591.4 | 10.0 |
| 40°-50° | 594.8 | 10.0 |
| 50°-60° | 517.6 | 8.7 |
| 60°-70° | 367.0 | 6.2 |
| 70°-80° | 194.1 | 3.3 |
| 80°-90° | 49.9 | 0.8 |
| 90°-100° | 201.6 | 3.4 |
| 100°-110° | 530.0 | 8.9 |
| 110°-120° | 549.5 | 9.3 |
| 120°-130° | 440.8 | 7.4 |
| 130°-140° | 345.9 | 5.8 |
| 140°-150° | 265.5 | 4.5 |
| 150°-160° | 191.2 | 3.2 |
| 160°-170° | 117.0 | 2.0 |
| 170°-180° | 39.5 | 0.7 |
| 0°-30° | 928.7 | 15.7 |
| 0°-40° | 1520.1 | 25.7 |
| 0°-60° | 2632.5 | 44.4 |
| 0°-90° | 3243.5 | 54.7 |
| 90°-120° | 1281.1 | 21.6 |
| 90°-150° | 2333.1 | 39.4 |
| 90°-180° | 2681.0 | 45.3 |
| 0°-180° | 5924.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1250 | 1250 | 1250 | 1250 | 1250 | |
| 5° | 1256 | 1295 | 1256 | 1018 | 1256 | 119 |
| 15° | 1199 | 1283 | 1199 | 1072 | 1199 | 337 |
| 25° | 1056 | 1197 | 1056 | 1048 | 1056 | 485 |
| 35° | 803 | 1068 | 803 | 912 | 803 | 497 |
| 45° | 518 | 880 | 518 | 772 | 518 | 415 |
| 55° | 422 | 650 | 422 | 634 | 422 | 388 |
| 65° | 293 | 392 | 293 | 438 | 293 | 280 |
| 75° | 111 | 186 | 111 | 222 | 111 | 117 |
| 85° | 19 | 47 | 19 | 40 | 19 | 26 |
| 90° | 3 | 11 | 3 | 11 | 3 | 3 |
| 95° | 27 | 122 | 27 | 122 | 27 | 30 |
| 105° | 95 | 830 | 95 | 830 | 95 | 101 |
| 115° | 170 | 1069 | 170 | 1069 | 170 | 168 |
| 125° | 236 | 851 | 236 | 851 | 236 | 209 |
| 135° | 281 | 660 | 281 | 660 | 281 | 218 |
| 145° | 326 | 536 | 326 | 536 | 326 | 204 |
| 155° | 369 | 461 | 369 | 461 | 369 | 169 |
| 165° | 398 | 430 | 398 | 430 | 398 | 112 |
| 175° | 414 | 416 | 414 | 416 | 414 | 39 |
| 180° | 414 | 414 | 414 | 414 | 414 | |



TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 |
| 2.5° | 1261.0 | 1261.0 | 1268.1 | 1270.4 | 1270.4 | 1266.9 | 1263.4 | 1266.9 | 1277.5 | 1281.1 | 1279.9 |
| 5° | 1256.3 | 1265.7 | 1278.8 | 1281.1 | 1283.4 | 1282.3 | 1279.9 | 1282.3 | 1294.1 | 1296.5 | 1297.7 |
| 7.5° | 1246.8 | 1264.5 | 1281.1 | 1284.7 | 1288.2 | 1284.7 | 1283.4 | 1285.8 | 1297.7 | 1300.0 | 1300.0 |
| 10° | 1235.0 | 1259.8 | 1278.8 | 1281.1 | 1284.7 | 1281.1 | 1281.1 | 1285.8 | 1297.7 | 1300.0 | 1301.2 |
| 12.5° | 1218.4 | 1252.7 | 1270.4 | 1272.9 | 1277.5 | 1276.4 | 1275.2 | 1279.9 | 1291.8 | 1294.1 | 1294.1 |
| 15° | 1199.4 | 1239.7 | 1256.3 | 1258.6 | 1266.9 | 1264.5 | 1264.5 | 1269.3 | 1282.3 | 1285.8 | 1284.7 |
| 17.5° | 1173.5 | 1223.2 | 1242.1 | 1245.6 | 1251.6 | 1250.3 | 1251.6 | 1256.3 | 1268.1 | 1270.4 | 1271.6 |
| 20° | 1143.9 | 1200.7 | 1223.2 | 1226.7 | 1232.6 | 1232.6 | 1232.6 | 1238.5 | 1250.3 | 1255.0 | 1255.0 |
| 22.5° | 1103.7 | 1177.0 | 1200.7 | 1203.0 | 1210.1 | 1210.1 | 1212.5 | 1220.8 | 1231.4 | 1232.6 | 1232.6 |
| 25° | 1056.4 | 1151.0 | 1171.1 | 1178.2 | 1185.3 | 1188.8 | 1192.4 | 1197.1 | 1200.7 | 1199.4 | 1200.7 |
| 27.5° | 1006.7 | 1117.9 | 1143.9 | 1148.6 | 1158.1 | 1161.7 | 1166.3 | 1167.6 | 1168.7 | 1172.2 | 1169.9 |
| 30° | 951.1 | 1071.7 | 1110.7 | 1115.5 | 1130.9 | 1133.2 | 1128.5 | 1130.9 | 1136.8 | 1139.2 | 1141.5 |
| 32.5° | 888.3 | 1003.1 | 1076.4 | 1087.1 | 1101.3 | 1094.2 | 1093.0 | 1096.6 | 1106.1 | 1106.1 | 1108.4 |
| 35° | 803.2 | 949.9 | 1044.6 | 1054.0 | 1064.6 | 1056.4 | 1061.0 | 1062.3 | 1068.2 | 1071.7 | 1070.5 |
| 37.5° | 709.7 | 903.7 | 1011.4 | 1018.5 | 1026.7 | 1016.1 | 1023.3 | 1026.7 | 1031.5 | 1029.2 | 1029.2 |
| 40° | 627.0 | 831.6 | 972.4 | 977.1 | 984.2 | 975.9 | 983.0 | 985.4 | 987.7 | 985.4 | 984.2 |
| 42.5° | 565.5 | 752.3 | 930.9 | 936.9 | 932.1 | 938.0 | 940.4 | 945.2 | 941.6 | 936.9 | 936.9 |
| 45° | 518.1 | 731.0 | 886.0 | 893.1 | 886.0 | 895.5 | 899.0 | 899.0 | 888.3 | 886.0 | 884.8 |
| 47.5° | 502.7 | 688.5 | 841.1 | 841.1 | 837.5 | 849.3 | 855.3 | 847.0 | 836.3 | 832.8 | 832.8 |
| 50° | 501.6 | 641.1 | 779.5 | 774.8 | 791.4 | 805.6 | 799.7 | 791.4 | 783.1 | 770.1 | 770.1 |
| 52.5° | 455.4 | 583.2 | 700.3 | 718.0 | 744.1 | 752.3 | 742.8 | 734.6 | 720.4 | 714.5 | 709.7 |
| 55° | 422.3 | 522.9 | 628.2 | 663.6 | 690.8 | 701.5 | 683.7 | 675.4 | 654.1 | 650.6 | 648.2 |
| 57.5° | 415.2 | 435.3 | 561.9 | 606.8 | 640.0 | 638.8 | 628.2 | 612.8 | 595.0 | 591.4 | 590.3 |
| 60° | 380.9 | 314.6 | 490.9 | 544.2 | 578.5 | 574.9 | 565.5 | 551.2 | 534.7 | 532.4 | 529.9 |
| 62.5° | 345.4 | 228.3 | 410.5 | 470.8 | 519.3 | 518.1 | 509.9 | 488.6 | 476.8 | 470.8 | 466.1 |
| 65° | 293.4 | 191.6 | 292.1 | 391.5 | 461.4 | 463.7 | 446.0 | 430.6 | 417.6 | 410.5 | 409.2 |
| 67.5° | 223.6 | 156.1 | 197.5 | 326.5 | 405.8 | 403.3 | 380.9 | 373.8 | 357.2 | 353.6 | 346.6 |
| 70° | 165.6 | 104.1 | 137.3 | 265.0 | 351.3 | 345.4 | 327.7 | 319.4 | 304.0 | 295.7 | 291.0 |
| 72.5° | 137.3 | 84.0 | 100.5 | 205.8 | 295.7 | 288.6 | 273.2 | 263.8 | 250.8 | 243.7 | 239.0 |
| 75° | 111.2 | 88.7 | 76.9 | 152.6 | 240.1 | 235.4 | 221.2 | 211.7 | 201.1 | 191.6 | 192.9 |
| 77.5° | 81.7 | 82.8 | 61.5 | 112.4 | 190.4 | 183.4 | 175.0 | 163.2 | 158.5 | 149.1 | 149.1 |
| 80° | 61.5 | 65.1 | 46.1 | 76.9 | 137.3 | 137.3 | 130.1 | 121.9 | 113.5 | 108.9 | 108.9 |
| 82.5° | 41.4 | 41.4 | 34.3 | 48.5 | 93.5 | 89.9 | 85.1 | 82.8 | 78.1 | 75.7 | 75.7 |
| 85° | 18.9 | 23.6 | 21.3 | 29.5 | 50.9 | 53.3 | 53.3 | 50.9 | 49.7 | 47.3 | 48.5 |
| 87.5° | 5.9 | 10.7 | 13.0 | 16.6 | 26.1 | 27.2 | 28.4 | 28.4 | 28.4 | 29.5 | 29.5 |
| 90° | 2.8 | 5.0 | 7.3 | 7.8 | 12.3 | 18.2 | 21.1 | 18.8 | 14.1 | 10.6 | 10.6 |
| 92.5° | 11.1 | 30.0 | 48.8 | 53.5 | 75.3 | 104.3 | 118.8 | 104.1 | 74.8 | 52.7 | 50.7 |
| 95° | 26.7 | 61.2 | 95.8 | 104.4 | 185.3 | 293.2 | 347.2 | 309.8 | 235.0 | 179.0 | 172.6 |
| 97.5° | 46.1 | 76.5 | 107.0 | 114.6 | 249.6 | 429.6 | 519.5 | 495.9 | 448.7 | 413.3 | 401.2 |
| 100° | 61.1 | 88.6 | 116.3 | 123.2 | 273.0 | 472.7 | 572.6 | 574.3 | 577.7 | 580.3 | 565.9 |
| 102.5° | 73.9 | 99.6 | 125.3 | 131.8 | 283.7 | 486.3 | 587.6 | 617.7 | 677.8 | 723.0 | 710.6 |
| 105° | 95.4 | 117.3 | 139.1 | 144.6 | 291.7 | 487.9 | 585.9 | 653.4 | 788.3 | 889.5 | 882.9 |
| 107.5° | 117.6 | 138.1 | 158.4 | 163.5 | 293.2 | 466.1 | 552.6 | 646.7 | 834.9 | 976.1 | 977.7 |
| 110° | 132.7 | 151.0 | 169.5 | 174.0 | 291.0 | 446.9 | 524.8 | 630.0 | 840.4 | 998.3 | 1005.2 |



TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 147.4 | 164.9 | 182.4 | 186.8 | 291.1 | 430.1 | 499.6 | 607.3 | 822.6 | 984.1 | 994.8 |
| 115° | 169.6 | 185.7 | 201.9 | 205.9 | 293.8 | 410.8 | 469.3 | 573.1 | 780.5 | 936.1 | 950.8 |
| 117.5° | 191.5 | 206.2 | 220.9 | 224.5 | 299.2 | 398.7 | 448.5 | 542.1 | 729.3 | 869.8 | 886.1 |
| 120° | 204.3 | 218.1 | 231.9 | 235.4 | 303.6 | 394.7 | 440.1 | 525.7 | 696.8 | 825.1 | 841.0 |
| 122.5° | 216.8 | 230.7 | 244.6 | 248.1 | 310.0 | 392.5 | 433.8 | 510.8 | 664.9 | 780.4 | 796.1 |
| 125° | 235.9 | 248.6 | 261.3 | 264.5 | 318.6 | 390.8 | 426.9 | 492.3 | 623.2 | 721.4 | 735.8 |
| 127.5° | 251.5 | 264.3 | 277.1 | 280.3 | 327.2 | 389.8 | 421.1 | 477.3 | 589.7 | 673.9 | 686.1 |
| 130° | 259.8 | 273.6 | 287.4 | 290.9 | 333.5 | 390.4 | 418.8 | 468.9 | 568.9 | 643.9 | 655.1 |
| 132.5° | 268.4 | 282.2 | 296.0 | 299.5 | 338.6 | 390.8 | 416.9 | 461.6 | 551.2 | 618.4 | 628.4 |
| 135° | 281.1 | 293.7 | 306.3 | 309.4 | 344.2 | 390.4 | 413.5 | 451.1 | 526.1 | 582.3 | 591.0 |
| 137.5° | 294.2 | 306.6 | 319.1 | 322.2 | 352.5 | 392.9 | 413.0 | 444.7 | 508.1 | 555.6 | 562.7 |
| 140° | 305.0 | 316.5 | 328.0 | 330.8 | 357.6 | 393.2 | 411.0 | 438.4 | 493.1 | 534.2 | 540.9 |
| 142.5° | 313.4 | 323.9 | 334.5 | 337.2 | 361.8 | 394.7 | 411.0 | 435.1 | 483.2 | 519.3 | 525.0 |
| 145° | 326.1 | 335.4 | 344.6 | 346.9 | 367.3 | 394.7 | 408.3 | 428.0 | 467.3 | 496.8 | 501.1 |
| 147.5° | 338.9 | 347.8 | 356.9 | 359.1 | 375.5 | 397.3 | 408.3 | 423.8 | 454.7 | 477.9 | 481.5 |
| 150° | 347.2 | 355.3 | 363.5 | 365.6 | 379.8 | 398.8 | 408.3 | 421.3 | 447.5 | 467.1 | 469.9 |
| 152.5° | 355.8 | 362.0 | 368.2 | 369.7 | 382.6 | 399.7 | 408.3 | 419.5 | 441.7 | 458.5 | 460.6 |
| 155° | 368.6 | 373.2 | 377.6 | 378.8 | 388.7 | 401.7 | 408.3 | 417.1 | 434.9 | 448.2 | 449.6 |
| 157.5° | 378.0 | 382.5 | 387.0 | 388.0 | 394.7 | 403.8 | 408.3 | 415.2 | 428.9 | 439.3 | 440.3 |
| 160° | 384.4 | 387.8 | 391.3 | 392.1 | 397.5 | 404.7 | 408.3 | 414.2 | 426.1 | 434.9 | 435.5 |
| 162.5° | 390.8 | 393.4 | 396.0 | 396.6 | 400.5 | 405.7 | 408.3 | 413.3 | 423.2 | 430.7 | 431.3 |
| 165° | 397.7 | 400.0 | 402.4 | 403.0 | 404.8 | 407.1 | 408.3 | 411.8 | 419.0 | 424.4 | 425.0 |
| 167.5° | 404.1 | 405.1 | 406.3 | 406.6 | 408.1 | 410.1 | 411.0 | 413.4 | 418.1 | 421.6 | 421.9 |
| 170° | 408.3 | 409.3 | 410.5 | 410.8 | 410.9 | 410.9 | 411.0 | 413.4 | 418.1 | 421.6 | 421.6 |
| 172.5° | 410.5 | 410.8 | 410.9 | 411.0 | 411.0 | 411.0 | 411.0 | 412.9 | 416.6 | 419.4 | 419.2 |
| 175° | 413.5 | 413.5 | 413.5 | 413.5 | 412.7 | 411.6 | 411.0 | 412.2 | 414.5 | 416.3 | 416.3 |
| 177.5° | 413.5 | 413.5 | 413.5 | 413.5 | 412.9 | 412.0 | 411.6 | 412.5 | 414.4 | 415.8 | 415.5 |
| 180° | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 |



TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 |
| 2.5° | 1282.3 | 1278.8 | 1282.3 | 1279.9 | 1281.1 | 1277.5 | 1266.9 | 1263.4 | 1266.9 | 1270.4 | 1270.4 |
| 5° | 1297.7 | 1295.3 | 1297.7 | 1297.7 | 1296.5 | 1294.1 | 1282.3 | 1279.9 | 1282.3 | 1283.4 | 1281.1 |
| 7.5° | 1302.4 | 1298.8 | 1302.4 | 1300.0 | 1300.0 | 1297.7 | 1285.8 | 1283.4 | 1284.7 | 1288.2 | 1284.7 |
| 10° | 1302.4 | 1298.8 | 1302.4 | 1301.2 | 1300.0 | 1297.7 | 1285.8 | 1281.1 | 1281.1 | 1284.7 | 1281.1 |
| 12.5° | 1296.5 | 1294.1 | 1296.5 | 1294.1 | 1294.1 | 1291.8 | 1279.9 | 1275.2 | 1276.4 | 1277.5 | 1272.9 |
| 15° | 1287.0 | 1283.4 | 1287.0 | 1284.7 | 1285.8 | 1282.3 | 1269.3 | 1264.5 | 1264.5 | 1266.9 | 1258.6 |
| 17.5° | 1272.9 | 1268.1 | 1272.9 | 1271.6 | 1270.4 | 1268.1 | 1256.3 | 1251.6 | 1250.3 | 1251.6 | 1245.6 |
| 20° | 1256.3 | 1252.7 | 1256.3 | 1255.0 | 1255.0 | 1250.3 | 1238.5 | 1232.6 | 1232.6 | 1232.6 | 1226.7 |
| 22.5° | 1230.2 | 1226.7 | 1230.2 | 1232.6 | 1232.6 | 1231.4 | 1220.8 | 1212.5 | 1210.1 | 1210.1 | 1203.0 |
| 25° | 1200.7 | 1197.1 | 1200.7 | 1200.7 | 1199.4 | 1200.7 | 1197.1 | 1192.4 | 1188.8 | 1185.3 | 1178.2 |
| 27.5° | 1172.2 | 1169.9 | 1172.2 | 1169.9 | 1172.2 | 1168.7 | 1167.6 | 1166.3 | 1161.7 | 1158.1 | 1148.6 |
| 30° | 1143.9 | 1141.5 | 1143.9 | 1141.5 | 1139.2 | 1136.8 | 1130.9 | 1128.5 | 1133.2 | 1130.9 | 1115.5 |
| 32.5° | 1108.4 | 1106.1 | 1108.4 | 1108.4 | 1106.1 | 1106.1 | 1096.6 | 1093.0 | 1094.2 | 1101.3 | 1087.1 |
| 35° | 1071.7 | 1068.2 | 1071.7 | 1070.5 | 1071.7 | 1068.2 | 1062.3 | 1061.0 | 1056.4 | 1064.6 | 1054.0 |
| 37.5° | 1029.2 | 1025.6 | 1029.2 | 1029.2 | 1029.2 | 1031.5 | 1026.7 | 1023.3 | 1016.1 | 1026.7 | 1018.5 |
| 40° | 985.4 | 980.6 | 985.4 | 984.2 | 985.4 | 987.7 | 985.4 | 983.0 | 975.9 | 984.2 | 977.1 |
| 42.5° | 935.7 | 934.5 | 935.7 | 936.9 | 936.9 | 941.6 | 945.2 | 940.4 | 938.0 | 932.1 | 936.9 |
| 45° | 882.4 | 880.1 | 882.4 | 884.8 | 886.0 | 888.3 | 899.0 | 899.0 | 895.5 | 886.0 | 893.1 |
| 47.5° | 825.7 | 819.7 | 825.7 | 832.8 | 832.8 | 836.3 | 847.0 | 855.3 | 849.3 | 837.5 | 841.1 |
| 50° | 765.3 | 766.6 | 765.3 | 770.1 | 770.1 | 783.1 | 791.4 | 799.7 | 805.6 | 791.4 | 774.8 |
| 52.5° | 706.2 | 705.1 | 706.2 | 709.7 | 714.5 | 720.4 | 734.6 | 742.8 | 752.3 | 744.1 | 718.0 |
| 55° | 647.0 | 649.5 | 647.0 | 648.2 | 650.6 | 654.1 | 675.4 | 683.7 | 701.5 | 690.8 | 663.6 |
| 57.5° | 588.0 | 584.4 | 588.0 | 590.3 | 591.4 | 595.0 | 612.8 | 628.2 | 638.8 | 640.0 | 606.8 |
| 60° | 519.3 | 514.5 | 519.3 | 529.9 | 532.4 | 534.7 | 551.2 | 565.5 | 574.9 | 578.5 | 544.2 |
| 62.5° | 458.9 | 450.7 | 458.9 | 466.1 | 470.8 | 476.8 | 488.6 | 509.9 | 518.1 | 519.3 | 470.8 |
| 65° | 395.1 | 391.5 | 395.1 | 409.2 | 410.5 | 417.6 | 430.6 | 446.0 | 463.7 | 461.4 | 391.5 |
| 67.5° | 337.2 | 337.2 | 337.2 | 346.6 | 353.6 | 357.2 | 373.8 | 380.9 | 403.3 | 405.8 | 326.5 |
| 70° | 283.9 | 282.7 | 283.9 | 291.0 | 295.7 | 304.0 | 319.4 | 327.7 | 345.4 | 351.3 | 265.0 |
| 72.5° | 233.0 | 231.9 | 233.0 | 239.0 | 243.7 | 250.8 | 263.8 | 273.2 | 288.6 | 295.7 | 205.8 |
| 75° | 188.1 | 185.7 | 188.1 | 192.9 | 191.6 | 201.1 | 211.7 | 221.2 | 235.4 | 240.1 | 152.6 |
| 77.5° | 144.3 | 144.3 | 144.3 | 149.1 | 149.1 | 158.5 | 163.2 | 175.0 | 183.4 | 190.4 | 112.4 |
| 80° | 107.6 | 106.5 | 107.6 | 108.9 | 108.9 | 113.5 | 121.9 | 130.1 | 137.3 | 137.3 | 76.9 |
| 82.5° | 75.7 | 73.3 | 75.7 | 75.7 | 75.7 | 78.1 | 82.8 | 85.1 | 89.9 | 93.5 | 48.5 |
| 85° | 47.3 | 47.3 | 47.3 | 48.5 | 47.3 | 49.7 | 50.9 | 53.3 | 53.3 | 50.9 | 29.5 |
| 87.5° | 30.8 | 29.5 | 30.8 | 29.5 | 29.5 | 28.4 | 28.4 | 28.4 | 27.2 | 26.1 | 16.6 |
| 90° | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 14.1 | 18.8 | 21.1 | 18.2 | 12.3 | 7.8 |
| 92.5° | 42.3 | 33.8 | 42.3 | 50.7 | 52.7 | 74.8 | 104.1 | 118.8 | 104.3 | 75.3 | 53.5 |
| 95° | 147.3 | 121.9 | 147.3 | 172.6 | 179.0 | 235.0 | 309.8 | 347.2 | 293.2 | 185.3 | 104.4 |
| 97.5° | 352.8 | 304.5 | 352.8 | 401.2 | 413.3 | 448.7 | 495.9 | 519.5 | 429.6 | 249.6 | 114.6 |
| 100° | 508.4 | 450.7 | 508.4 | 565.9 | 580.3 | 577.7 | 574.3 | 572.6 | 472.7 | 273.0 | 123.2 |
| 102.5° | 661.3 | 611.9 | 661.3 | 710.6 | 723.0 | 677.8 | 617.7 | 587.6 | 486.3 | 283.7 | 131.8 |
| 105° | 856.4 | 829.9 | 856.4 | 882.9 | 889.5 | 788.3 | 653.4 | 585.9 | 487.9 | 291.7 | 144.6 |
| 107.5° | 984.1 | 990.6 | 984.1 | 977.7 | 976.1 | 834.9 | 646.7 | 552.6 | 466.1 | 293.2 | 163.5 |
| 110° | 1032.8 | 1060.5 | 1032.8 | 1005.2 | 998.3 | 840.4 | 630.0 | 524.8 | 446.9 | 291.0 | 174.0 |



TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 1037.2 | 1079.7 | 1037.2 | 994.8 | 984.1 | 822.6 | 607.3 | 499.6 | 430.1 | 291.1 | 186.8 |
| 115° | 1009.7 | 1068.6 | 1009.7 | 950.8 | 936.1 | 780.5 | 573.1 | 469.3 | 410.8 | 293.8 | 205.9 |
| 117.5° | 951.4 | 1016.6 | 951.4 | 886.1 | 869.8 | 729.3 | 542.1 | 448.5 | 398.7 | 299.2 | 224.5 |
| 120° | 904.4 | 967.7 | 904.4 | 841.0 | 825.1 | 696.8 | 525.7 | 440.1 | 394.7 | 303.6 | 235.4 |
| 122.5° | 858.6 | 921.2 | 858.6 | 796.1 | 780.4 | 664.9 | 510.8 | 433.8 | 392.5 | 310.0 | 248.1 |
| 125° | 793.3 | 850.9 | 793.3 | 735.8 | 721.4 | 623.2 | 492.3 | 426.9 | 390.8 | 318.6 | 264.5 |
| 127.5° | 734.6 | 783.2 | 734.6 | 686.1 | 673.9 | 589.7 | 477.3 | 421.1 | 389.8 | 327.2 | 280.3 |
| 130° | 700.0 | 744.9 | 700.0 | 655.1 | 643.9 | 568.9 | 468.9 | 418.8 | 390.4 | 333.5 | 290.9 |
| 132.5° | 668.6 | 708.8 | 668.6 | 628.4 | 618.4 | 551.2 | 461.6 | 416.9 | 390.8 | 338.6 | 299.5 |
| 135° | 625.6 | 660.3 | 625.6 | 591.0 | 582.3 | 526.1 | 451.1 | 413.5 | 390.4 | 344.2 | 309.4 |
| 137.5° | 591.1 | 619.5 | 591.1 | 562.7 | 555.6 | 508.1 | 444.7 | 413.0 | 392.9 | 352.5 | 322.2 |
| 140° | 567.4 | 593.9 | 567.4 | 540.9 | 534.2 | 493.1 | 438.4 | 411.0 | 393.2 | 357.6 | 330.8 |
| 142.5° | 547.8 | 570.6 | 547.8 | 525.0 | 519.3 | 483.2 | 435.1 | 411.0 | 394.7 | 361.8 | 337.2 |
| 145° | 518.4 | 535.7 | 518.4 | 501.1 | 496.8 | 467.3 | 428.0 | 408.3 | 394.7 | 367.3 | 346.9 |
| 147.5° | 495.8 | 510.1 | 495.8 | 481.5 | 477.9 | 454.7 | 423.8 | 408.3 | 397.3 | 375.5 | 359.1 |
| 150° | 481.6 | 493.2 | 481.6 | 469.9 | 467.1 | 447.5 | 421.3 | 408.3 | 398.8 | 379.8 | 365.6 |
| 152.5° | 469.4 | 478.2 | 469.4 | 460.6 | 458.5 | 441.7 | 419.5 | 408.3 | 399.7 | 382.6 | 369.7 |
| 155° | 455.4 | 461.3 | 455.4 | 449.6 | 448.2 | 434.9 | 417.1 | 408.3 | 401.7 | 388.7 | 378.8 |
| 157.5° | 444.4 | 448.5 | 444.4 | 440.3 | 439.3 | 428.9 | 415.2 | 408.3 | 403.8 | 394.7 | 388.0 |
| 160° | 437.8 | 440.1 | 437.8 | 435.5 | 434.9 | 426.1 | 414.2 | 408.3 | 404.7 | 397.5 | 392.1 |
| 162.5° | 433.5 | 435.7 | 433.5 | 431.3 | 430.7 | 423.2 | 413.3 | 408.3 | 405.7 | 400.5 | 396.6 |
| 165° | 427.3 | 429.7 | 427.3 | 425.0 | 424.4 | 419.0 | 411.8 | 408.3 | 407.1 | 404.8 | 403.0 |
| 167.5° | 422.9 | 423.8 | 422.9 | 421.9 | 421.6 | 418.1 | 413.4 | 411.0 | 410.1 | 408.1 | 406.6 |
| 170° | 421.6 | 421.6 | 421.6 | 421.6 | 421.6 | 418.1 | 413.4 | 411.0 | 410.9 | 410.9 | 410.8 |
| 172.5° | 418.3 | 417.4 | 418.3 | 419.2 | 419.4 | 416.6 | 412.9 | 411.0 | 411.0 | 411.0 | 411.0 |
| 175° | 416.3 | 416.3 | 416.3 | 416.3 | 416.3 | 414.5 | 412.2 | 411.0 | 411.6 | 412.7 | 413.5 |
| 177.5° | 414.5 | 413.5 | 414.5 | 415.5 | 415.8 | 414.4 | 412.5 | 411.6 | 412.0 | 412.9 | 413.5 |
| 180° | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 |



TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 |
| 2.5° | 1268.1 | 1261.0 | 1261.0 | 1249.1 | 1244.4 | 1240.9 | 1235.0 | 1217.3 | 1212.5 | 1207.8 | 1214.8 |
| 5° | 1278.8 | 1265.7 | 1256.3 | 1235.0 | 1217.3 | 1210.1 | 1187.6 | 1145.1 | 1116.6 | 1095.4 | 1083.6 |
| 7.5° | 1281.1 | 1264.5 | 1246.8 | 1213.7 | 1171.1 | 1152.2 | 1083.6 | 1005.5 | 984.2 | 965.2 | 953.4 |
| 10° | 1278.8 | 1259.8 | 1235.0 | 1185.3 | 1084.8 | 1051.6 | 983.0 | 932.1 | 919.1 | 915.5 | 919.1 |
| 12.5° | 1270.4 | 1252.7 | 1218.4 | 1135.6 | 994.9 | 972.4 | 932.1 | 902.6 | 900.2 | 906.1 | 938.0 |
| 15° | 1256.3 | 1239.7 | 1199.4 | 1069.4 | 945.2 | 928.6 | 900.2 | 889.6 | 902.6 | 943.9 | 1039.8 |
| 17.5° | 1242.1 | 1223.2 | 1173.5 | 1004.3 | 907.3 | 895.5 | 875.3 | 896.7 | 970.0 | 1025.6 | 1057.5 |
| 20° | 1223.2 | 1200.7 | 1143.9 | 957.0 | 880.1 | 869.4 | 859.9 | 955.8 | 1011.4 | 1031.5 | 1049.2 |
| 22.5° | 1200.7 | 1177.0 | 1103.7 | 923.9 | 851.7 | 843.4 | 849.3 | 989.0 | 1011.4 | 1025.6 | 1041.0 |
| 25° | 1171.1 | 1151.0 | 1056.4 | 897.8 | 829.2 | 819.7 | 842.2 | 985.4 | 998.4 | 1001.9 | 1032.7 |
| 27.5° | 1143.9 | 1117.9 | 1006.7 | 874.2 | 802.0 | 798.4 | 848.1 | 970.0 | 979.5 | 983.0 | 1016.1 |
| 30° | 1110.7 | 1071.7 | 951.1 | 849.3 | 773.6 | 772.5 | 849.3 | 951.1 | 948.7 | 958.2 | 991.3 |
| 32.5° | 1076.4 | 1003.1 | 888.3 | 818.6 | 746.4 | 745.3 | 841.1 | 922.7 | 920.3 | 933.4 | 958.2 |
| 35° | 1044.6 | 949.9 | 803.2 | 783.1 | 712.1 | 713.3 | 820.9 | 889.6 | 890.7 | 902.6 | 918.0 |
| 37.5° | 1011.4 | 903.7 | 709.7 | 744.1 | 679.0 | 679.0 | 793.7 | 858.8 | 856.5 | 859.9 | 881.3 |
| 40° | 972.4 | 831.6 | 627.0 | 693.2 | 648.2 | 644.7 | 760.7 | 825.7 | 817.4 | 816.3 | 845.8 |
| 42.5° | 930.9 | 752.3 | 565.5 | 625.7 | 612.8 | 608.0 | 720.4 | 785.5 | 770.1 | 773.6 | 811.5 |
| 45° | 886.0 | 731.0 | 518.1 | 528.8 | 576.0 | 572.6 | 676.6 | 739.3 | 728.7 | 738.2 | 777.2 |
| 47.5° | 841.1 | 688.5 | 502.7 | 438.9 | 537.0 | 535.8 | 628.2 | 694.4 | 688.5 | 697.9 | 739.3 |
| 50° | 779.5 | 641.1 | 501.6 | 376.2 | 493.3 | 498.0 | 570.1 | 650.6 | 650.6 | 658.9 | 702.6 |
| 52.5° | 700.3 | 583.2 | 455.4 | 340.7 | 442.4 | 456.6 | 519.3 | 612.8 | 615.1 | 623.4 | 662.4 |
| 55° | 628.2 | 522.9 | 422.3 | 313.4 | 382.1 | 412.8 | 469.6 | 573.7 | 578.5 | 586.7 | 622.2 |
| 57.5° | 561.9 | 435.3 | 415.2 | 281.6 | 326.5 | 356.1 | 425.8 | 535.8 | 538.3 | 545.3 | 579.6 |
| 60° | 490.9 | 314.6 | 380.9 | 247.2 | 278.0 | 300.5 | 385.6 | 490.9 | 499.2 | 503.9 | 533.5 |
| 62.5° | 410.5 | 228.3 | 345.4 | 223.6 | 254.4 | 259.1 | 352.5 | 448.3 | 458.9 | 462.5 | 480.2 |
| 65° | 292.1 | 191.6 | 293.4 | 203.5 | 229.5 | 230.6 | 317.0 | 404.6 | 414.0 | 419.9 | 433.0 |
| 67.5° | 197.5 | 156.1 | 223.6 | 184.5 | 210.6 | 211.7 | 282.7 | 353.6 | 366.7 | 371.5 | 379.7 |
| 70° | 137.3 | 104.1 | 165.6 | 164.5 | 189.3 | 191.6 | 246.0 | 307.5 | 319.4 | 322.9 | 327.7 |
| 72.5° | 100.5 | 84.0 | 137.3 | 147.9 | 166.8 | 169.1 | 208.2 | 255.5 | 267.3 | 270.9 | 273.2 |
| 75° | 76.9 | 88.7 | 111.2 | 128.9 | 141.9 | 143.2 | 170.4 | 208.2 | 216.5 | 218.8 | 220.0 |
| 77.5° | 61.5 | 82.8 | 81.7 | 104.1 | 115.9 | 113.5 | 133.7 | 160.9 | 168.0 | 168.0 | 168.0 |
| 80° | 46.1 | 65.1 | 61.5 | 74.5 | 85.1 | 82.8 | 95.8 | 114.8 | 117.1 | 119.4 | 118.3 |
| 82.5° | 34.3 | 41.4 | 41.4 | 47.3 | 56.8 | 54.4 | 63.8 | 74.5 | 74.5 | 74.5 | 76.9 |
| 85° | 21.3 | 23.6 | 18.9 | 24.8 | 32.0 | 30.8 | 35.5 | 40.2 | 41.4 | 41.4 | 39.0 |
| 87.5° | 13.0 | 10.7 | 5.9 | 9.5 | 14.2 | 14.2 | 16.6 | 17.7 | 16.6 | 16.6 | 16.6 |
| 90° | 7.3 | 5.0 | 2.8 | 5.0 | 7.3 | 7.8 | 12.3 | 18.2 | 21.1 | 18.8 | 14.1 |
| 92.5° | 48.8 | 30.0 | 11.1 | 30.0 | 48.8 | 53.5 | 75.3 | 104.3 | 118.8 | 104.1 | 74.8 |
| 95° | 95.8 | 61.2 | 26.7 | 61.2 | 95.8 | 104.4 | 185.3 | 293.2 | 347.2 | 309.8 | 235.0 |
| 97.5° | 107.0 | 76.5 | 46.1 | 76.5 | 107.0 | 114.6 | 249.6 | 429.6 | 519.5 | 495.9 | 448.7 |
| 100° | 116.3 | 88.6 | 61.1 | 88.6 | 116.3 | 123.2 | 273.0 | 472.7 | 572.6 | 574.3 | 577.7 |
| 102.5° | 125.3 | 99.6 | 73.9 | 99.6 | 125.3 | 131.8 | 283.7 | 486.3 | 587.6 | 617.7 | 677.8 |
| 105° | 139.1 | 117.3 | 95.4 | 117.3 | 139.1 | 144.6 | 291.7 | 487.9 | 585.9 | 653.4 | 788.3 |
| 107.5° | 158.4 | 138.1 | 117.6 | 138.1 | 158.4 | 163.5 | 293.2 | 466.1 | 552.6 | 646.7 | 834.9 |
| 110° | 169.5 | 151.0 | 132.7 | 151.0 | 169.5 | 174.0 | 291.0 | 446.9 | 524.8 | 630.0 | 840.4 |



TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 182.4 | 164.9 | 147.4 | 164.9 | 182.4 | 186.8 | 291.1 | 430.1 | 499.6 | 607.3 | 822.6 |
| 115° | 201.9 | 185.7 | 169.6 | 185.7 | 201.9 | 205.9 | 293.8 | 410.8 | 469.3 | 573.1 | 780.5 |
| 117.5° | 220.9 | 206.2 | 191.5 | 206.2 | 220.9 | 224.5 | 299.2 | 398.7 | 448.5 | 542.1 | 729.3 |
| 120° | 231.9 | 218.1 | 204.3 | 218.1 | 231.9 | 235.4 | 303.6 | 394.7 | 440.1 | 525.7 | 696.8 |
| 122.5° | 244.6 | 230.7 | 216.8 | 230.7 | 244.6 | 248.1 | 310.0 | 392.5 | 433.8 | 510.8 | 664.9 |
| 125° | 261.3 | 248.6 | 235.9 | 248.6 | 261.3 | 264.5 | 318.6 | 390.8 | 426.9 | 492.3 | 623.2 |
| 127.5° | 277.1 | 264.3 | 251.5 | 264.3 | 277.1 | 280.3 | 327.2 | 389.8 | 421.1 | 477.3 | 589.7 |
| 130° | 287.4 | 273.6 | 259.8 | 273.6 | 287.4 | 290.9 | 333.5 | 390.4 | 418.8 | 468.9 | 568.9 |
| 132.5° | 296.0 | 282.2 | 268.4 | 282.2 | 296.0 | 299.5 | 338.6 | 390.8 | 416.9 | 461.6 | 551.2 |
| 135° | 306.3 | 293.7 | 281.1 | 293.7 | 306.3 | 309.4 | 344.2 | 390.4 | 413.5 | 451.1 | 526.1 |
| 137.5° | 319.1 | 306.6 | 294.2 | 306.6 | 319.1 | 322.2 | 352.5 | 392.9 | 413.0 | 444.7 | 508.1 |
| 140° | 328.0 | 316.5 | 305.0 | 316.5 | 328.0 | 330.8 | 357.6 | 393.2 | 411.0 | 438.4 | 493.1 |
| 142.5° | 334.5 | 323.9 | 313.4 | 323.9 | 334.5 | 337.2 | 361.8 | 394.7 | 411.0 | 435.1 | 483.2 |
| 145° | 344.6 | 335.4 | 326.1 | 335.4 | 344.6 | 346.9 | 367.3 | 394.7 | 408.3 | 428.0 | 467.3 |
| 147.5° | 356.9 | 347.8 | 338.9 | 347.8 | 356.9 | 359.1 | 375.5 | 397.3 | 408.3 | 423.8 | 454.7 |
| 150° | 363.5 | 355.3 | 347.2 | 355.3 | 363.5 | 365.6 | 379.8 | 398.8 | 408.3 | 421.3 | 447.5 |
| 152.5° | 368.2 | 362.0 | 355.8 | 362.0 | 368.2 | 369.7 | 382.6 | 399.7 | 408.3 | 419.5 | 441.7 |
| 155° | 377.6 | 373.2 | 368.6 | 373.2 | 377.6 | 378.8 | 388.7 | 401.7 | 408.3 | 417.1 | 434.9 |
| 157.5° | 387.0 | 382.5 | 378.0 | 382.5 | 387.0 | 388.0 | 394.7 | 403.8 | 408.3 | 415.2 | 428.9 |
| 160° | 391.3 | 387.8 | 384.4 | 387.8 | 391.3 | 392.1 | 397.5 | 404.7 | 408.3 | 414.2 | 426.1 |
| 162.5° | 396.0 | 393.4 | 390.8 | 393.4 | 396.0 | 396.6 | 400.5 | 405.7 | 408.3 | 413.3 | 423.2 |
| 165° | 402.4 | 400.0 | 397.7 | 400.0 | 402.4 | 403.0 | 404.8 | 407.1 | 408.3 | 411.8 | 419.0 |
| 167.5° | 406.3 | 405.1 | 404.1 | 405.1 | 406.3 | 406.6 | 408.1 | 410.1 | 411.0 | 413.4 | 418.1 |
| 170° | 410.5 | 409.3 | 408.3 | 409.3 | 410.5 | 410.8 | 410.9 | 410.9 | 411.0 | 413.4 | 418.1 |
| 172.5° | 410.9 | 410.8 | 410.5 | 410.8 | 410.9 | 411.0 | 411.0 | 411.0 | 411.0 | 412.9 | 416.6 |
| 175° | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 412.7 | 411.6 | 411.0 | 412.2 | 414.5 |
| 177.5° | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 412.9 | 412.0 | 411.6 | 412.5 | 414.4 |
| 180° | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 |



TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 |
| 2.5° | 1206.6 | 1203.0 | 1207.8 | 1194.7 | 1207.8 | 1203.0 | 1206.6 | 1214.8 | 1207.8 | 1212.5 | 1217.3 |
| 5° | 1058.7 | 1052.8 | 1033.9 | 1018.5 | 1033.9 | 1052.8 | 1058.7 | 1083.6 | 1095.4 | 1116.6 | 1145.1 |
| 7.5° | 946.3 | 941.6 | 936.9 | 927.4 | 936.9 | 941.6 | 946.3 | 953.4 | 965.2 | 984.2 | 1005.5 |
| 10° | 921.5 | 922.7 | 929.8 | 928.6 | 929.8 | 922.7 | 921.5 | 919.1 | 915.5 | 919.1 | 932.1 |
| 12.5° | 985.4 | 996.0 | 1035.1 | 1032.7 | 1035.1 | 996.0 | 985.4 | 938.0 | 906.1 | 900.2 | 902.6 |
| 15° | 1058.7 | 1062.3 | 1070.5 | 1071.7 | 1070.5 | 1062.3 | 1058.7 | 1039.8 | 943.9 | 902.6 | 889.6 |
| 17.5° | 1065.8 | 1067.0 | 1072.9 | 1072.9 | 1072.9 | 1067.0 | 1065.8 | 1057.5 | 1025.6 | 970.0 | 896.7 |
| 20° | 1059.9 | 1062.3 | 1074.1 | 1076.4 | 1074.1 | 1062.3 | 1059.9 | 1049.2 | 1031.5 | 1011.4 | 955.8 |
| 22.5° | 1057.5 | 1062.3 | 1071.7 | 1070.5 | 1071.7 | 1062.3 | 1057.5 | 1041.0 | 1025.6 | 1011.4 | 989.0 |
| 25° | 1045.7 | 1045.7 | 1046.9 | 1048.1 | 1046.9 | 1045.7 | 1045.7 | 1032.7 | 1001.9 | 998.4 | 985.4 |
| 27.5° | 1020.8 | 1023.3 | 1030.3 | 1029.2 | 1030.3 | 1023.3 | 1020.8 | 1016.1 | 983.0 | 979.5 | 970.0 |
| 30° | 998.4 | 996.0 | 990.1 | 985.4 | 990.1 | 996.0 | 998.4 | 991.3 | 958.2 | 948.7 | 951.1 |
| 32.5° | 960.5 | 954.6 | 948.7 | 945.2 | 948.7 | 954.6 | 960.5 | 958.2 | 933.4 | 920.3 | 922.7 |
| 35° | 915.5 | 916.8 | 915.5 | 912.1 | 915.5 | 916.8 | 915.5 | 918.0 | 902.6 | 890.7 | 889.6 |
| 37.5° | 883.7 | 886.0 | 884.8 | 880.1 | 884.8 | 886.0 | 883.7 | 881.3 | 859.9 | 856.5 | 858.8 |
| 40° | 850.5 | 851.7 | 850.5 | 847.0 | 850.5 | 851.7 | 850.5 | 845.8 | 816.3 | 817.4 | 825.7 |
| 42.5° | 818.6 | 817.4 | 813.8 | 811.5 | 813.8 | 817.4 | 818.6 | 811.5 | 773.6 | 770.1 | 785.5 |
| 45° | 781.9 | 783.1 | 776.0 | 772.5 | 776.0 | 783.1 | 781.9 | 777.2 | 738.2 | 728.7 | 739.3 |
| 47.5° | 745.3 | 745.3 | 739.3 | 735.8 | 739.3 | 745.3 | 745.3 | 739.3 | 697.9 | 688.5 | 694.4 |
| 50° | 706.2 | 705.1 | 696.7 | 695.6 | 696.7 | 705.1 | 706.2 | 702.6 | 658.9 | 650.6 | 650.6 |
| 52.5° | 661.3 | 661.3 | 662.4 | 664.8 | 662.4 | 661.3 | 661.3 | 662.4 | 623.4 | 615.1 | 612.8 |
| 55° | 622.2 | 623.4 | 631.6 | 634.1 | 631.6 | 623.4 | 622.2 | 622.2 | 586.7 | 578.5 | 573.7 |
| 57.5° | 582.0 | 582.0 | 588.0 | 588.0 | 588.0 | 582.0 | 582.0 | 579.6 | 545.3 | 538.3 | 535.8 |
| 60° | 535.8 | 538.3 | 542.9 | 541.8 | 542.9 | 538.3 | 535.8 | 533.5 | 503.9 | 499.2 | 490.9 |
| 62.5° | 487.3 | 489.7 | 490.9 | 488.6 | 490.9 | 489.7 | 487.3 | 480.2 | 462.5 | 458.9 | 448.3 |
| 65° | 436.5 | 438.9 | 440.0 | 437.7 | 440.0 | 438.9 | 436.5 | 433.0 | 419.9 | 414.0 | 404.6 |
| 67.5° | 384.4 | 383.3 | 382.1 | 386.8 | 382.1 | 383.3 | 384.4 | 379.7 | 371.5 | 366.7 | 353.6 |
| 70° | 331.2 | 331.2 | 330.0 | 332.4 | 330.0 | 331.2 | 331.2 | 327.7 | 322.9 | 319.4 | 307.5 |
| 72.5° | 274.4 | 273.2 | 278.0 | 274.4 | 278.0 | 273.2 | 274.4 | 273.2 | 270.9 | 267.3 | 255.5 |
| 75° | 218.8 | 221.2 | 218.8 | 222.4 | 218.8 | 221.2 | 218.8 | 220.0 | 218.8 | 216.5 | 208.2 |
| 77.5° | 166.8 | 169.1 | 166.8 | 166.8 | 166.8 | 169.1 | 166.8 | 168.0 | 168.0 | 168.0 | 160.9 |
| 80° | 118.3 | 117.1 | 117.1 | 115.9 | 117.1 | 117.1 | 118.3 | 118.3 | 119.4 | 117.1 | 114.8 |
| 82.5° | 75.7 | 74.5 | 74.5 | 76.9 | 74.5 | 74.5 | 75.7 | 76.9 | 74.5 | 74.5 | 74.5 |
| 85° | 41.4 | 42.6 | 40.2 | 40.2 | 40.2 | 42.6 | 41.4 | 39.0 | 41.4 | 41.4 | 40.2 |
| 87.5° | 15.4 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 15.4 | 16.6 | 16.6 | 16.6 | 17.7 |
| 90° | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 14.1 | 18.8 | 21.1 | 18.2 |
| 92.5° | 52.7 | 50.7 | 42.3 | 33.8 | 42.3 | 50.7 | 52.7 | 74.8 | 104.1 | 118.8 | 104.3 |
| 95° | 179.0 | 172.6 | 147.3 | 121.9 | 147.3 | 172.6 | 179.0 | 235.0 | 309.8 | 347.2 | 293.2 |
| 97.5° | 413.3 | 401.2 | 352.8 | 304.5 | 352.8 | 401.2 | 413.3 | 448.7 | 495.9 | 519.5 | 429.6 |
| 100° | 580.3 | 565.9 | 508.4 | 450.7 | 508.4 | 565.9 | 580.3 | 577.7 | 574.3 | 572.6 | 472.7 |
| 102.5° | 723.0 | 710.6 | 661.3 | 611.9 | 661.3 | 710.6 | 723.0 | 677.8 | 617.7 | 587.6 | 486.3 |
| 105° | 889.5 | 882.9 | 856.4 | 829.9 | 856.4 | 882.9 | 889.5 | 788.3 | 653.4 | 585.9 | 487.9 |
| 107.5° | 976.1 | 977.7 | 984.1 | 990.6 | 984.1 | 977.7 | 976.1 | 834.9 | 646.7 | 552.6 | 466.1 |
| 110° | 998.3 | 1005.2 | 1032.8 | 1060.5 | 1032.8 | 1005.2 | 998.3 | 840.4 | 630.0 | 524.8 | 446.9 |



TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|-------|
| 112.5° | 984.1 | 994.8 | 1037.2 | 1079.7 | 1037.2 | 994.8 | 984.1 | 822.6 | 607.3 | 499.6 | 430.1 |
| 115° | 936.1 | 950.8 | 1009.7 | 1068.6 | 1009.7 | 950.8 | 936.1 | 780.5 | 573.1 | 469.3 | 410.8 |
| 117.5° | 869.8 | 886.1 | 951.4 | 1016.6 | 951.4 | 886.1 | 869.8 | 729.3 | 542.1 | 448.5 | 398.7 |
| 120° | 825.1 | 841.0 | 904.4 | 967.7 | 904.4 | 841.0 | 825.1 | 696.8 | 525.7 | 440.1 | 394.7 |
| 122.5° | 780.4 | 796.1 | 858.6 | 921.2 | 858.6 | 796.1 | 780.4 | 664.9 | 510.8 | 433.8 | 392.5 |
| 125° | 721.4 | 735.8 | 793.3 | 850.9 | 793.3 | 735.8 | 721.4 | 623.2 | 492.3 | 426.9 | 390.8 |
| 127.5° | 673.9 | 686.1 | 734.6 | 783.2 | 734.6 | 686.1 | 673.9 | 589.7 | 477.3 | 421.1 | 389.8 |
| 130° | 643.9 | 655.1 | 700.0 | 744.9 | 700.0 | 655.1 | 643.9 | 568.9 | 468.9 | 418.8 | 390.4 |
| 132.5° | 618.4 | 628.4 | 668.6 | 708.8 | 668.6 | 628.4 | 618.4 | 551.2 | 461.6 | 416.9 | 390.8 |
| 135° | 582.3 | 591.0 | 625.6 | 660.3 | 625.6 | 591.0 | 582.3 | 526.1 | 451.1 | 413.5 | 390.4 |
| 137.5° | 555.6 | 562.7 | 591.1 | 619.5 | 591.1 | 562.7 | 555.6 | 508.1 | 444.7 | 413.0 | 392.9 |
| 140° | 534.2 | 540.9 | 567.4 | 593.9 | 567.4 | 540.9 | 534.2 | 493.1 | 438.4 | 411.0 | 393.2 |
| 142.5° | 519.3 | 525.0 | 547.8 | 570.6 | 547.8 | 525.0 | 519.3 | 483.2 | 435.1 | 411.0 | 394.7 |
| 145° | 496.8 | 501.1 | 518.4 | 535.7 | 518.4 | 501.1 | 496.8 | 467.3 | 428.0 | 408.3 | 394.7 |
| 147.5° | 477.9 | 481.5 | 495.8 | 510.1 | 495.8 | 481.5 | 477.9 | 454.7 | 423.8 | 408.3 | 397.3 |
| 150° | 467.1 | 469.9 | 481.6 | 493.2 | 481.6 | 469.9 | 467.1 | 447.5 | 421.3 | 408.3 | 398.8 |
| 152.5° | 458.5 | 460.6 | 469.4 | 478.2 | 469.4 | 460.6 | 458.5 | 441.7 | 419.5 | 408.3 | 399.7 |
| 155° | 448.2 | 449.6 | 455.4 | 461.3 | 455.4 | 449.6 | 448.2 | 434.9 | 417.1 | 408.3 | 401.7 |
| 157.5° | 439.3 | 440.3 | 444.4 | 448.5 | 444.4 | 440.3 | 439.3 | 428.9 | 415.2 | 408.3 | 403.8 |
| 160° | 434.9 | 435.5 | 437.8 | 440.1 | 437.8 | 435.5 | 434.9 | 426.1 | 414.2 | 408.3 | 404.7 |
| 162.5° | 430.7 | 431.3 | 433.5 | 435.7 | 433.5 | 431.3 | 430.7 | 423.2 | 413.3 | 408.3 | 405.7 |
| 165° | 424.4 | 425.0 | 427.3 | 429.7 | 427.3 | 425.0 | 424.4 | 419.0 | 411.8 | 408.3 | 407.1 |
| 167.5° | 421.6 | 421.9 | 422.9 | 423.8 | 422.9 | 421.9 | 421.6 | 418.1 | 413.4 | 411.0 | 410.1 |
| 170° | 421.6 | 421.6 | 421.6 | 421.6 | 421.6 | 421.6 | 421.6 | 418.1 | 413.4 | 411.0 | 410.9 |
| 172.5° | 419.4 | 419.2 | 418.3 | 417.4 | 418.3 | 419.2 | 419.4 | 416.6 | 412.9 | 411.0 | 411.0 |
| 175° | 416.3 | 416.3 | 416.3 | 416.3 | 416.3 | 416.3 | 416.3 | 414.5 | 412.2 | 411.0 | 411.6 |
| 177.5° | 415.8 | 415.5 | 414.5 | 413.5 | 414.5 | 415.5 | 415.8 | 414.4 | 412.5 | 411.6 | 412.0 |
| 180° | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 |



TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1250.3 | 1250.3 | 1250.3 | 1250.3 | 1250.3 |
| 2.5° | 1235.0 | 1240.9 | 1244.4 | 1249.1 | 1261.0 |
| 5° | 1187.6 | 1210.1 | 1217.3 | 1235.0 | 1256.3 |
| 7.5° | 1083.6 | 1152.2 | 1171.1 | 1213.7 | 1246.8 |
| 10° | 983.0 | 1051.6 | 1084.8 | 1185.3 | 1235.0 |
| 12.5° | 932.1 | 972.4 | 994.9 | 1135.6 | 1218.4 |
| 15° | 900.2 | 928.6 | 945.2 | 1069.4 | 1199.4 |
| 17.5° | 875.3 | 895.5 | 907.3 | 1004.3 | 1173.5 |
| 20° | 859.9 | 869.4 | 880.1 | 957.0 | 1143.9 |
| 22.5° | 849.3 | 843.4 | 851.7 | 923.9 | 1103.7 |
| 25° | 842.2 | 819.7 | 829.2 | 897.8 | 1056.4 |
| 27.5° | 848.1 | 798.4 | 802.0 | 874.2 | 1006.7 |
| 30° | 849.3 | 772.5 | 773.6 | 849.3 | 951.1 |
| 32.5° | 841.1 | 745.3 | 746.4 | 818.6 | 888.3 |
| 35° | 820.9 | 713.3 | 712.1 | 783.1 | 803.2 |
| 37.5° | 793.7 | 679.0 | 679.0 | 744.1 | 709.7 |
| 40° | 760.7 | 644.7 | 648.2 | 693.2 | 627.0 |
| 42.5° | 720.4 | 608.0 | 612.8 | 625.7 | 565.5 |
| 45° | 676.6 | 572.6 | 576.0 | 528.8 | 518.1 |
| 47.5° | 628.2 | 535.8 | 537.0 | 438.9 | 502.7 |
| 50° | 570.1 | 498.0 | 493.3 | 376.2 | 501.6 |
| 52.5° | 519.3 | 456.6 | 442.4 | 340.7 | 455.4 |
| 55° | 469.6 | 412.8 | 382.1 | 313.4 | 422.3 |
| 57.5° | 425.8 | 356.1 | 326.5 | 281.6 | 415.2 |
| 60° | 385.6 | 300.5 | 278.0 | 247.2 | 380.9 |
| 62.5° | 352.5 | 259.1 | 254.4 | 223.6 | 345.4 |
| 65° | 317.0 | 230.6 | 229.5 | 203.5 | 293.4 |
| 67.5° | 282.7 | 211.7 | 210.6 | 184.5 | 223.6 |
| 70° | 246.0 | 191.6 | 189.3 | 164.5 | 165.6 |
| 72.5° | 208.2 | 169.1 | 166.8 | 147.9 | 137.3 |
| 75° | 170.4 | 143.2 | 141.9 | 128.9 | 111.2 |
| 77.5° | 133.7 | 113.5 | 115.9 | 104.1 | 81.7 |
| 80° | 95.8 | 82.8 | 85.1 | 74.5 | 61.5 |
| 82.5° | 63.8 | 54.4 | 56.8 | 47.3 | 41.4 |
| 85° | 35.5 | 30.8 | 32.0 | 24.8 | 18.9 |
| 87.5° | 16.6 | 14.2 | 14.2 | 9.5 | 5.9 |
| 90° | 12.3 | 7.8 | 7.3 | 5.0 | 2.8 |
| 92.5° | 75.3 | 53.5 | 48.8 | 30.0 | 11.1 |
| 95° | 185.3 | 104.4 | 95.8 | 61.2 | 26.7 |
| 97.5° | 249.6 | 114.6 | 107.0 | 76.5 | 46.1 |
| 100° | 273.0 | 123.2 | 116.3 | 88.6 | 61.1 |
| 102.5° | 283.7 | 131.8 | 125.3 | 99.6 | 73.9 |
| 105° | 291.7 | 144.6 | 139.1 | 117.3 | 95.4 |
| 107.5° | 293.2 | 163.5 | 158.4 | 138.1 | 117.6 |
| 110° | 291.0 | 174.0 | 169.5 | 151.0 | 132.7 |



TEST NUMBER: P934858

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 291.1 | 186.8 | 182.4 | 164.9 | 147.4 |
| 115° | 293.8 | 205.9 | 201.9 | 185.7 | 169.6 |
| 117.5° | 299.2 | 224.5 | 220.9 | 206.2 | 191.5 |
| 120° | 303.6 | 235.4 | 231.9 | 218.1 | 204.3 |
| 122.5° | 310.0 | 248.1 | 244.6 | 230.7 | 216.8 |
| 125° | 318.6 | 264.5 | 261.3 | 248.6 | 235.9 |
| 127.5° | 327.2 | 280.3 | 277.1 | 264.3 | 251.5 |
| 130° | 333.5 | 290.9 | 287.4 | 273.6 | 259.8 |
| 132.5° | 338.6 | 299.5 | 296.0 | 282.2 | 268.4 |
| 135° | 344.2 | 309.4 | 306.3 | 293.7 | 281.1 |
| 137.5° | 352.5 | 322.2 | 319.1 | 306.6 | 294.2 |
| 140° | 357.6 | 330.8 | 328.0 | 316.5 | 305.0 |
| 142.5° | 361.8 | 337.2 | 334.5 | 323.9 | 313.4 |
| 145° | 367.3 | 346.9 | 344.6 | 335.4 | 326.1 |
| 147.5° | 375.5 | 359.1 | 356.9 | 347.8 | 338.9 |
| 150° | 379.8 | 365.6 | 363.5 | 355.3 | 347.2 |
| 152.5° | 382.6 | 369.7 | 368.2 | 362.0 | 355.8 |
| 155° | 388.7 | 378.8 | 377.6 | 373.2 | 368.6 |
| 157.5° | 394.7 | 388.0 | 387.0 | 382.5 | 378.0 |
| 160° | 397.5 | 392.1 | 391.3 | 387.8 | 384.4 |
| 162.5° | 400.5 | 396.6 | 396.0 | 393.4 | 390.8 |
| 165° | 404.8 | 403.0 | 402.4 | 400.0 | 397.7 |
| 167.5° | 408.1 | 406.6 | 406.3 | 405.1 | 404.1 |
| 170° | 410.9 | 410.8 | 410.5 | 409.3 | 408.3 |
| 172.5° | 411.0 | 411.0 | 410.9 | 410.8 | 410.5 |
| 175° | 412.7 | 413.5 | 413.5 | 413.5 | 413.5 |
| 177.5° | 412.9 | 413.5 | 413.5 | 413.5 | 413.5 |
| 180° | 413.5 | 413.5 | 413.5 | 413.5 | 413.5 |



TEST NUMBER: P934858
 CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3500K

CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 13.74 | 14.64 | 14.65 | 15.58 | 16.78 | 16.54 | 17.44 | 17.45 | 18.38 | 19.58 |
| | 3H | 14.22 | 15.03 | 15.15 | 15.97 | 17.20 | 17.87 | 18.69 | 18.80 | 19.63 | 20.86 |
| | 4H | 14.41 | 15.18 | 15.35 | 16.13 | 17.36 | 18.31 | 19.08 | 19.26 | 20.03 | 21.27 |
| | 6H | 14.53 | 15.24 | 15.49 | 16.19 | 17.44 | 18.59 | 19.30 | 19.55 | 20.25 | 21.50 |
| | 8H | 14.54 | 15.21 | 15.50 | 16.18 | 17.43 | 18.67 | 19.34 | 19.63 | 20.31 | 21.56 |
| | 12H | 14.51 | 15.15 | 15.47 | 16.11 | 17.39 | 18.70 | 19.34 | 19.67 | 20.31 | 21.58 |
| 4H | 2H | 14.77 | 15.54 | 15.72 | 16.48 | 17.72 | 16.95 | 17.72 | 17.90 | 18.67 | 19.90 |
| | 3H | 15.80 | 16.44 | 16.76 | 17.42 | 18.67 | 18.45 | 19.09 | 19.41 | 20.07 | 21.32 |
| | 4H | 16.08 | 16.66 | 17.04 | 17.63 | 18.91 | 18.98 | 19.56 | 19.94 | 20.53 | 21.81 |
| | 6H | 16.21 | 16.71 | 17.19 | 17.70 | 18.98 | 19.34 | 19.84 | 20.32 | 20.83 | 22.11 |
| | 8H | 16.21 | 16.68 | 17.19 | 17.67 | 18.96 | 19.44 | 19.91 | 20.42 | 20.90 | 22.18 |
| | 12H | 16.18 | 16.61 | 17.18 | 17.61 | 18.90 | 19.49 | 19.92 | 20.49 | 20.92 | 22.21 |
| 8H | 4H | 16.53 | 17.00 | 17.51 | 17.99 | 19.28 | 19.10 | 19.57 | 20.09 | 20.56 | 21.85 |
| | 6H | 16.79 | 17.18 | 17.80 | 18.21 | 19.50 | 19.53 | 19.92 | 20.54 | 20.95 | 22.24 |
| | 8H | 16.84 | 17.18 | 17.85 | 18.20 | 19.50 | 19.68 | 20.02 | 20.70 | 21.04 | 22.35 |
| | 12H | 16.82 | 17.12 | 17.84 | 18.14 | 19.49 | 19.78 | 20.08 | 20.80 | 21.09 | 22.44 |
| 12H | 4H | 16.54 | 16.96 | 17.54 | 17.97 | 19.26 | 19.07 | 19.50 | 20.07 | 20.50 | 21.79 |
| | 6H | 16.85 | 17.20 | 17.87 | 18.21 | 19.52 | 19.53 | 19.88 | 20.55 | 20.89 | 22.20 |
| | 8H | 16.92 | 17.22 | 17.94 | 18.24 | 19.58 | 19.69 | 19.99 | 20.71 | 21.00 | 22.35 |