

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: P934834

Luminaire Tested: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934834
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-92765-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

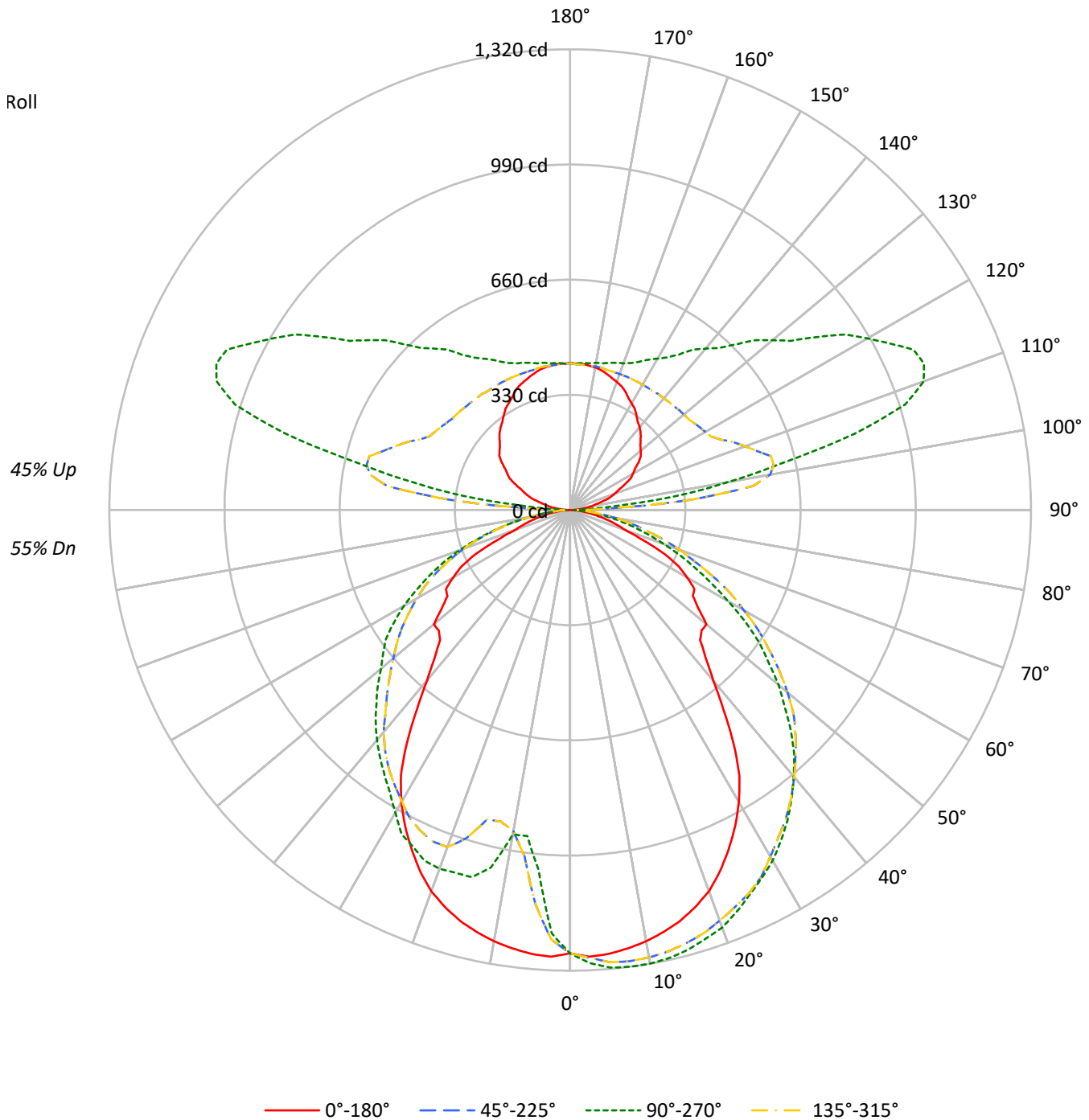
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6019.1 lumens
Efficiency: N/A
Efficacy: 117.6 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: P934834
CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P934834

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

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° | 11787 | 11787 | 11787 | 11787 |
| 5° | 11863 | 11900 | 11863 | 9357 |
| 10° | 11771 | 11721 | 11771 | 8380 |
| 15° | 11629 | 11467 | 11629 | 9575 |
| 20° | 11373 | 11167 | 11373 | 9596 |
| 25° | 10862 | 10728 | 10862 | 9392 |
| 30° | 10206 | 10364 | 10206 | 8946 |
| 35° | 9085 | 9903 | 9085 | 8455 |
| 40° | 7558 | 9360 | 7558 | 8084 |
| 45° | 6739 | 8726 | 6739 | 7658 |
| 50° | 7144 | 7968 | 7144 | 7231 |
| 55° | 6703 | 7153 | 6703 | 6983 |
| 60° | 6884 | 6074 | 6884 | 6395 |
| 65° | 6212 | 5021 | 6212 | 5613 |
| 70° | 4273 | 4003 | 4273 | 4705 |
| 75° | 3706 | 2958 | 3706 | 3543 |
| 80° | 2925 | 1956 | 2925 | 2130 |
| 85° | 1590 | 1034 | 1590 | 879 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10349 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.7 | 1.9 |
| 10°-20° | 325.6 | 5.4 |
| 20°-30° | 503.3 | 8.4 |
| 30°-40° | 600.8 | 10.0 |
| 40°-50° | 604.4 | 10.0 |
| 50°-60° | 525.9 | 8.7 |
| 60°-70° | 372.8 | 6.2 |
| 70°-80° | 197.3 | 3.3 |
| 80°-90° | 50.7 | 0.8 |
| 90°-100° | 204.8 | 3.4 |
| 100°-110° | 538.4 | 8.9 |
| 110°-120° | 558.3 | 9.3 |
| 120°-130° | 447.8 | 7.4 |
| 130°-140° | 351.4 | 5.8 |
| 140°-150° | 269.7 | 4.5 |
| 150°-160° | 194.2 | 3.2 |
| 160°-170° | 118.8 | 2.0 |
| 170°-180° | 40.2 | 0.7 |
| 0°-30° | 943.6 | 15.7 |
| 0°-40° | 1544.4 | 25.7 |
| 0°-60° | 2674.6 | 44.4 |
| 0°-90° | 3295.4 | 54.7 |
| 90°-120° | 1301.6 | 21.6 |
| 90°-150° | 2370.5 | 39.4 |
| 90°-180° | 2724.0 | 45.3 |
| 0°-180° | 6019.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1270 | 1270 | 1270 | 1270 | 1270 | |
| 5° | 1276 | 1316 | 1276 | 1035 | 1276 | 121 |
| 15° | 1219 | 1304 | 1219 | 1089 | 1219 | 343 |
| 25° | 1073 | 1216 | 1073 | 1065 | 1073 | 493 |
| 35° | 816 | 1085 | 816 | 927 | 816 | 505 |
| 45° | 526 | 894 | 526 | 785 | 526 | 422 |
| 55° | 429 | 660 | 429 | 644 | 429 | 394 |
| 65° | 298 | 398 | 298 | 445 | 298 | 285 |
| 75° | 113 | 189 | 113 | 226 | 113 | 119 |
| 85° | 19 | 48 | 19 | 41 | 19 | 26 |
| 90° | 3 | 11 | 3 | 11 | 3 | 3 |
| 95° | 27 | 124 | 27 | 124 | 27 | 30 |
| 105° | 97 | 843 | 97 | 843 | 97 | 103 |
| 115° | 172 | 1086 | 172 | 1086 | 172 | 170 |
| 125° | 240 | 864 | 240 | 864 | 240 | 213 |
| 135° | 286 | 671 | 286 | 671 | 286 | 221 |
| 145° | 331 | 544 | 331 | 544 | 331 | 208 |
| 155° | 374 | 469 | 374 | 469 | 374 | 172 |
| 165° | 404 | 436 | 404 | 436 | 404 | 114 |
| 175° | 420 | 423 | 420 | 423 | 420 | 40 |
| 180° | 420 | 420 | 420 | 420 | 420 | |



TEST NUMBER: P934834

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 |
| 2.5° | 1281.1 | 1281.1 | 1288.4 | 1290.8 | 1290.8 | 1287.1 | 1283.6 | 1287.1 | 1298.0 | 1301.6 | 1300.4 |
| 5° | 1276.4 | 1286.0 | 1299.2 | 1301.6 | 1304.0 | 1302.8 | 1300.4 | 1302.8 | 1314.8 | 1317.2 | 1318.4 |
| 7.5° | 1266.8 | 1284.8 | 1301.6 | 1305.2 | 1308.8 | 1305.2 | 1304.0 | 1306.4 | 1318.4 | 1320.8 | 1320.8 |
| 10° | 1254.8 | 1280.0 | 1299.2 | 1301.6 | 1305.2 | 1301.6 | 1301.6 | 1306.4 | 1318.4 | 1320.8 | 1322.1 |
| 12.5° | 1237.9 | 1272.8 | 1290.8 | 1293.2 | 1298.0 | 1296.8 | 1295.6 | 1300.4 | 1312.4 | 1314.8 | 1314.8 |
| 15° | 1218.6 | 1259.6 | 1276.4 | 1278.8 | 1287.1 | 1284.8 | 1284.8 | 1289.6 | 1302.8 | 1306.4 | 1305.2 |
| 17.5° | 1192.3 | 1242.7 | 1261.9 | 1265.6 | 1271.6 | 1270.3 | 1271.6 | 1276.4 | 1288.4 | 1290.8 | 1292.0 |
| 20° | 1162.2 | 1219.9 | 1242.7 | 1246.3 | 1252.3 | 1252.3 | 1252.3 | 1258.3 | 1270.3 | 1275.1 | 1275.1 |
| 22.5° | 1121.3 | 1195.8 | 1219.9 | 1222.3 | 1229.5 | 1229.5 | 1231.9 | 1240.3 | 1251.1 | 1252.3 | 1252.3 |
| 25° | 1073.3 | 1169.4 | 1189.8 | 1197.1 | 1204.3 | 1207.8 | 1211.5 | 1216.3 | 1219.9 | 1218.6 | 1219.9 |
| 27.5° | 1022.8 | 1135.8 | 1162.2 | 1167.0 | 1176.6 | 1180.3 | 1185.0 | 1186.3 | 1187.4 | 1191.0 | 1188.6 |
| 30° | 966.3 | 1088.8 | 1128.5 | 1133.3 | 1149.0 | 1151.3 | 1146.6 | 1149.0 | 1155.0 | 1157.4 | 1159.8 |
| 32.5° | 902.5 | 1019.2 | 1093.7 | 1104.5 | 1118.9 | 1111.7 | 1110.5 | 1114.1 | 1123.8 | 1123.8 | 1126.1 |
| 35° | 816.0 | 965.1 | 1061.3 | 1070.8 | 1081.6 | 1073.3 | 1078.0 | 1079.3 | 1085.3 | 1088.8 | 1087.7 |
| 37.5° | 721.1 | 918.2 | 1027.6 | 1034.8 | 1043.2 | 1032.3 | 1039.6 | 1043.2 | 1048.0 | 1045.6 | 1045.6 |
| 40° | 637.0 | 844.9 | 988.0 | 992.7 | 1000.0 | 991.5 | 998.7 | 1001.1 | 1003.5 | 1001.1 | 1000.0 |
| 42.5° | 574.5 | 764.4 | 945.8 | 951.8 | 947.0 | 953.0 | 955.5 | 960.3 | 956.7 | 951.8 | 951.8 |
| 45° | 526.4 | 742.7 | 900.2 | 907.4 | 900.2 | 909.8 | 913.4 | 913.4 | 902.5 | 900.2 | 899.0 |
| 47.5° | 510.8 | 699.5 | 854.5 | 854.5 | 850.9 | 862.9 | 869.0 | 860.5 | 849.7 | 846.1 | 846.1 |
| 50° | 509.6 | 651.4 | 792.0 | 787.2 | 804.0 | 818.5 | 812.5 | 804.0 | 795.7 | 782.4 | 782.4 |
| 52.5° | 462.7 | 592.5 | 711.5 | 729.5 | 756.0 | 764.4 | 754.7 | 746.4 | 731.9 | 725.9 | 721.1 |
| 55° | 429.1 | 531.2 | 638.2 | 674.2 | 701.9 | 712.7 | 694.7 | 686.2 | 664.6 | 661.0 | 658.6 |
| 57.5° | 421.9 | 442.3 | 570.9 | 616.6 | 650.2 | 649.0 | 638.2 | 622.6 | 604.5 | 600.9 | 599.7 |
| 60° | 387.0 | 319.6 | 498.8 | 552.9 | 587.7 | 584.1 | 574.5 | 560.1 | 543.2 | 540.9 | 538.4 |
| 62.5° | 350.9 | 232.0 | 417.1 | 478.4 | 527.6 | 526.4 | 518.0 | 496.4 | 484.4 | 478.4 | 473.6 |
| 65° | 298.1 | 194.7 | 296.8 | 397.8 | 468.7 | 471.1 | 453.1 | 437.4 | 424.3 | 417.1 | 415.8 |
| 67.5° | 227.1 | 158.6 | 200.7 | 331.7 | 412.2 | 409.8 | 387.0 | 379.8 | 362.9 | 359.3 | 352.1 |
| 70° | 168.3 | 105.8 | 139.4 | 269.3 | 356.9 | 350.9 | 332.9 | 324.5 | 308.9 | 300.5 | 295.6 |
| 72.5° | 139.4 | 85.3 | 102.2 | 209.1 | 300.5 | 293.3 | 277.6 | 268.0 | 254.8 | 247.6 | 242.8 |
| 75° | 113.0 | 90.1 | 78.1 | 155.0 | 244.0 | 239.1 | 224.8 | 215.1 | 204.3 | 194.7 | 195.9 |
| 77.5° | 83.0 | 84.1 | 62.5 | 114.2 | 193.5 | 186.3 | 177.8 | 165.8 | 161.0 | 151.5 | 151.5 |
| 80° | 62.5 | 66.1 | 46.8 | 78.1 | 139.4 | 139.4 | 132.2 | 123.8 | 115.3 | 110.6 | 110.6 |
| 82.5° | 42.0 | 42.0 | 34.8 | 49.3 | 95.0 | 91.3 | 86.5 | 84.1 | 79.3 | 77.0 | 77.0 |
| 85° | 19.2 | 24.0 | 21.6 | 30.0 | 51.7 | 54.1 | 54.1 | 51.7 | 50.5 | 48.0 | 49.3 |
| 87.5° | 6.0 | 10.8 | 13.2 | 16.8 | 26.5 | 27.7 | 28.8 | 28.8 | 28.8 | 30.0 | 30.0 |
| 90° | 2.8 | 5.1 | 7.4 | 7.9 | 12.5 | 18.5 | 21.5 | 19.1 | 14.3 | 10.7 | 10.7 |
| 92.5° | 11.3 | 30.5 | 49.6 | 54.4 | 76.5 | 106.0 | 120.7 | 105.8 | 76.0 | 53.6 | 51.5 |
| 95° | 27.1 | 62.2 | 97.3 | 106.1 | 188.3 | 297.9 | 352.8 | 314.7 | 238.8 | 181.8 | 175.4 |
| 97.5° | 46.8 | 77.8 | 108.7 | 116.4 | 253.6 | 436.4 | 527.9 | 503.8 | 455.9 | 419.9 | 407.6 |
| 100° | 62.0 | 90.1 | 118.2 | 125.2 | 277.3 | 480.3 | 581.7 | 583.4 | 587.0 | 589.6 | 575.0 |
| 102.5° | 75.0 | 101.2 | 127.3 | 133.9 | 288.3 | 494.1 | 597.0 | 627.6 | 688.7 | 734.5 | 722.0 |
| 105° | 97.0 | 119.2 | 141.4 | 146.9 | 296.4 | 495.7 | 595.3 | 663.9 | 800.9 | 903.7 | 897.0 |
| 107.5° | 119.5 | 140.3 | 160.9 | 166.1 | 297.9 | 473.6 | 561.4 | 657.0 | 848.2 | 991.7 | 993.3 |
| 110° | 134.8 | 153.5 | 172.2 | 176.8 | 295.6 | 454.0 | 533.2 | 640.1 | 853.9 | 1014.2 | 1021.2 |



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CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 149.7 | 167.6 | 185.3 | 189.8 | 295.7 | 437.0 | 507.6 | 617.0 | 835.8 | 999.9 | 1010.7 |
| 115° | 172.3 | 188.7 | 205.1 | 209.2 | 298.5 | 417.3 | 476.8 | 582.3 | 793.0 | 951.1 | 966.0 |
| 117.5° | 194.6 | 209.5 | 224.4 | 228.1 | 304.0 | 405.1 | 455.6 | 550.8 | 741.0 | 883.7 | 900.3 |
| 120° | 207.6 | 221.6 | 235.6 | 239.1 | 308.5 | 401.0 | 447.2 | 534.1 | 708.0 | 838.3 | 854.4 |
| 122.5° | 220.2 | 234.4 | 248.5 | 252.1 | 314.9 | 398.8 | 440.7 | 518.9 | 675.5 | 792.9 | 808.8 |
| 125° | 239.7 | 252.6 | 265.5 | 268.7 | 323.7 | 397.1 | 433.7 | 500.2 | 633.2 | 732.9 | 747.5 |
| 127.5° | 255.5 | 268.5 | 281.5 | 284.8 | 332.5 | 396.1 | 427.8 | 484.9 | 599.1 | 684.7 | 697.1 |
| 130° | 264.0 | 278.0 | 292.0 | 295.5 | 338.8 | 396.6 | 425.5 | 476.4 | 578.0 | 654.2 | 665.6 |
| 132.5° | 272.7 | 286.7 | 300.7 | 304.3 | 344.0 | 397.1 | 423.5 | 469.0 | 560.1 | 628.3 | 638.5 |
| 135° | 285.6 | 298.4 | 311.2 | 314.4 | 349.7 | 396.7 | 420.2 | 458.3 | 534.5 | 591.6 | 600.5 |
| 137.5° | 298.9 | 311.6 | 324.2 | 327.4 | 358.1 | 399.1 | 419.6 | 451.8 | 516.2 | 564.5 | 571.7 |
| 140° | 309.9 | 321.6 | 333.2 | 336.1 | 363.3 | 399.5 | 417.6 | 445.4 | 501.0 | 542.8 | 549.5 |
| 142.5° | 318.4 | 329.1 | 339.8 | 342.6 | 367.6 | 401.0 | 417.6 | 442.1 | 490.9 | 527.6 | 533.4 |
| 145° | 331.3 | 340.8 | 350.1 | 352.5 | 373.2 | 401.0 | 414.8 | 434.8 | 474.7 | 504.8 | 509.1 |
| 147.5° | 344.3 | 353.4 | 362.6 | 364.9 | 381.5 | 403.7 | 414.8 | 430.5 | 462.0 | 485.6 | 489.2 |
| 150° | 352.8 | 361.0 | 369.3 | 371.4 | 385.9 | 405.2 | 414.8 | 428.1 | 454.6 | 474.6 | 477.5 |
| 152.5° | 361.5 | 367.8 | 374.0 | 375.6 | 388.7 | 406.1 | 414.8 | 426.2 | 448.8 | 465.8 | 468.0 |
| 155° | 374.5 | 379.1 | 383.7 | 384.9 | 394.9 | 408.2 | 414.8 | 423.8 | 441.8 | 455.4 | 456.8 |
| 157.5° | 384.0 | 388.6 | 393.1 | 394.2 | 401.1 | 410.2 | 414.8 | 421.8 | 435.8 | 446.4 | 447.4 |
| 160° | 390.5 | 394.1 | 397.5 | 398.4 | 403.9 | 411.2 | 414.8 | 420.8 | 432.9 | 441.9 | 442.4 |
| 162.5° | 397.1 | 399.7 | 402.3 | 403.0 | 406.9 | 412.2 | 414.8 | 419.9 | 430.0 | 437.6 | 438.2 |
| 165° | 404.1 | 406.4 | 408.8 | 409.4 | 411.2 | 413.6 | 414.8 | 418.4 | 425.7 | 431.2 | 431.8 |
| 167.5° | 410.5 | 411.6 | 412.8 | 413.1 | 414.6 | 416.6 | 417.6 | 420.0 | 424.8 | 428.3 | 428.6 |
| 170° | 414.8 | 415.9 | 417.1 | 417.3 | 417.4 | 417.5 | 417.6 | 420.0 | 424.8 | 428.3 | 428.3 |
| 172.5° | 417.1 | 417.3 | 417.5 | 417.6 | 417.6 | 417.6 | 417.6 | 419.5 | 423.3 | 426.1 | 425.9 |
| 175° | 420.2 | 420.2 | 420.2 | 420.2 | 419.3 | 418.2 | 417.6 | 418.8 | 421.2 | 423.0 | 423.0 |
| 177.5° | 420.2 | 420.2 | 420.2 | 420.2 | 419.5 | 418.6 | 418.2 | 419.1 | 421.0 | 422.4 | 422.2 |
| 180° | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 |



TEST NUMBER: P934834

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 |
| 2.5° | 1302.8 | 1299.2 | 1302.8 | 1300.4 | 1301.6 | 1298.0 | 1287.1 | 1283.6 | 1287.1 | 1290.8 | 1290.8 |
| 5° | 1318.4 | 1316.1 | 1318.4 | 1318.4 | 1317.2 | 1314.8 | 1302.8 | 1300.4 | 1302.8 | 1304.0 | 1301.6 |
| 7.5° | 1323.2 | 1319.6 | 1323.2 | 1320.8 | 1320.8 | 1318.4 | 1306.4 | 1304.0 | 1305.2 | 1308.8 | 1305.2 |
| 10° | 1323.2 | 1319.6 | 1323.2 | 1322.1 | 1320.8 | 1318.4 | 1306.4 | 1301.6 | 1301.6 | 1305.2 | 1301.6 |
| 12.5° | 1317.2 | 1314.8 | 1317.2 | 1314.8 | 1314.8 | 1312.4 | 1300.4 | 1295.6 | 1296.8 | 1298.0 | 1293.2 |
| 15° | 1307.6 | 1304.0 | 1307.6 | 1305.2 | 1306.4 | 1302.8 | 1289.6 | 1284.8 | 1284.8 | 1287.1 | 1278.8 |
| 17.5° | 1293.2 | 1288.4 | 1293.2 | 1292.0 | 1290.8 | 1288.4 | 1276.4 | 1271.6 | 1270.3 | 1271.6 | 1265.6 |
| 20° | 1276.4 | 1272.8 | 1276.4 | 1275.1 | 1275.1 | 1270.3 | 1258.3 | 1252.3 | 1252.3 | 1252.3 | 1246.3 |
| 22.5° | 1249.9 | 1246.3 | 1249.9 | 1252.3 | 1252.3 | 1251.1 | 1240.3 | 1231.9 | 1229.5 | 1229.5 | 1222.3 |
| 25° | 1219.9 | 1216.3 | 1219.9 | 1219.9 | 1218.6 | 1219.9 | 1216.3 | 1211.5 | 1207.8 | 1204.3 | 1197.1 |
| 27.5° | 1191.0 | 1188.6 | 1191.0 | 1188.6 | 1191.0 | 1187.4 | 1186.3 | 1185.0 | 1180.3 | 1176.6 | 1167.0 |
| 30° | 1162.2 | 1159.8 | 1162.2 | 1159.8 | 1157.4 | 1155.0 | 1149.0 | 1146.6 | 1151.3 | 1149.0 | 1133.3 |
| 32.5° | 1126.1 | 1123.8 | 1126.1 | 1126.1 | 1123.8 | 1123.8 | 1114.1 | 1110.5 | 1111.7 | 1118.9 | 1104.5 |
| 35° | 1088.8 | 1085.3 | 1088.8 | 1087.7 | 1088.8 | 1085.3 | 1079.3 | 1078.0 | 1073.3 | 1081.6 | 1070.8 |
| 37.5° | 1045.6 | 1042.0 | 1045.6 | 1045.6 | 1045.6 | 1048.0 | 1043.2 | 1039.6 | 1032.3 | 1043.2 | 1034.8 |
| 40° | 1001.1 | 996.3 | 1001.1 | 1000.0 | 1001.1 | 1003.5 | 1001.1 | 998.7 | 991.5 | 1000.0 | 992.7 |
| 42.5° | 950.7 | 949.5 | 950.7 | 951.8 | 951.8 | 956.7 | 960.3 | 955.5 | 953.0 | 947.0 | 951.8 |
| 45° | 896.5 | 894.2 | 896.5 | 899.0 | 900.2 | 902.5 | 913.4 | 913.4 | 909.8 | 900.2 | 907.4 |
| 47.5° | 838.9 | 832.9 | 838.9 | 846.1 | 846.1 | 849.7 | 860.5 | 869.0 | 862.9 | 850.9 | 854.5 |
| 50° | 777.6 | 778.8 | 777.6 | 782.4 | 782.4 | 795.7 | 804.0 | 812.5 | 818.5 | 804.0 | 787.2 |
| 52.5° | 717.5 | 716.3 | 717.5 | 721.1 | 725.9 | 731.9 | 746.4 | 754.7 | 764.4 | 756.0 | 729.5 |
| 55° | 657.4 | 659.9 | 657.4 | 658.6 | 661.0 | 664.6 | 686.2 | 694.7 | 712.7 | 701.9 | 674.2 |
| 57.5° | 597.4 | 593.7 | 597.4 | 599.7 | 600.9 | 604.5 | 622.6 | 638.2 | 649.0 | 650.2 | 616.6 |
| 60° | 527.6 | 522.8 | 527.6 | 538.4 | 540.9 | 543.2 | 560.1 | 574.5 | 584.1 | 587.7 | 552.9 |
| 62.5° | 466.3 | 457.9 | 466.3 | 473.6 | 478.4 | 484.4 | 496.4 | 518.0 | 526.4 | 527.6 | 478.4 |
| 65° | 401.4 | 397.8 | 401.4 | 415.8 | 417.1 | 424.3 | 437.4 | 453.1 | 471.1 | 468.7 | 397.8 |
| 67.5° | 342.6 | 342.6 | 342.6 | 352.1 | 359.3 | 362.9 | 379.8 | 387.0 | 409.8 | 412.2 | 331.7 |
| 70° | 288.4 | 287.3 | 288.4 | 295.6 | 300.5 | 308.9 | 324.5 | 332.9 | 350.9 | 356.9 | 269.3 |
| 72.5° | 236.8 | 235.6 | 236.8 | 242.8 | 247.6 | 254.8 | 268.0 | 277.6 | 293.3 | 300.5 | 209.1 |
| 75° | 191.1 | 188.7 | 191.1 | 195.9 | 194.7 | 204.3 | 215.1 | 224.8 | 239.1 | 244.0 | 155.0 |
| 77.5° | 146.6 | 146.6 | 146.6 | 151.5 | 151.5 | 161.0 | 165.8 | 177.8 | 186.3 | 193.5 | 114.2 |
| 80° | 109.3 | 108.2 | 109.3 | 110.6 | 110.6 | 115.3 | 123.8 | 132.2 | 139.4 | 139.4 | 78.1 |
| 82.5° | 77.0 | 74.5 | 77.0 | 77.0 | 77.0 | 79.3 | 84.1 | 86.5 | 91.3 | 95.0 | 49.3 |
| 85° | 48.0 | 48.0 | 48.0 | 49.3 | 48.0 | 50.5 | 51.7 | 54.1 | 54.1 | 51.7 | 30.0 |
| 87.5° | 31.3 | 30.0 | 31.3 | 30.0 | 30.0 | 28.8 | 28.8 | 28.8 | 27.7 | 26.5 | 16.8 |
| 90° | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 14.3 | 19.1 | 21.5 | 18.5 | 12.5 | 7.9 |
| 92.5° | 42.9 | 34.4 | 42.9 | 51.5 | 53.6 | 76.0 | 105.8 | 120.7 | 106.0 | 76.5 | 54.4 |
| 95° | 149.6 | 123.8 | 149.6 | 175.4 | 181.8 | 238.8 | 314.7 | 352.8 | 297.9 | 188.3 | 106.1 |
| 97.5° | 358.5 | 309.4 | 358.5 | 407.6 | 419.9 | 455.9 | 503.8 | 527.9 | 436.4 | 253.6 | 116.4 |
| 100° | 516.5 | 457.9 | 516.5 | 575.0 | 589.6 | 587.0 | 583.4 | 581.7 | 480.3 | 277.3 | 125.2 |
| 102.5° | 671.9 | 621.7 | 671.9 | 722.0 | 734.5 | 688.7 | 627.6 | 597.0 | 494.1 | 288.3 | 133.9 |
| 105° | 870.1 | 843.1 | 870.1 | 897.0 | 903.7 | 800.9 | 663.9 | 595.3 | 495.7 | 296.4 | 146.9 |
| 107.5° | 999.9 | 1006.4 | 999.9 | 993.3 | 991.7 | 848.2 | 657.0 | 561.4 | 473.6 | 297.9 | 166.1 |
| 110° | 1049.4 | 1077.5 | 1049.4 | 1021.2 | 1014.2 | 853.9 | 640.1 | 533.2 | 454.0 | 295.6 | 176.8 |



TEST NUMBER: P934834

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 1053.8 | 1096.9 | 1053.8 | 1010.7 | 999.9 | 835.8 | 617.0 | 507.6 | 437.0 | 295.7 | 189.8 |
| 115° | 1025.9 | 1085.7 | 1025.9 | 966.0 | 951.1 | 793.0 | 582.3 | 476.8 | 417.3 | 298.5 | 209.2 |
| 117.5° | 966.6 | 1032.9 | 966.6 | 900.3 | 883.7 | 741.0 | 550.8 | 455.6 | 405.1 | 304.0 | 228.1 |
| 120° | 918.8 | 983.2 | 918.8 | 854.4 | 838.3 | 708.0 | 534.1 | 447.2 | 401.0 | 308.5 | 239.1 |
| 122.5° | 872.3 | 935.9 | 872.3 | 808.8 | 792.9 | 675.5 | 518.9 | 440.7 | 398.8 | 314.9 | 252.1 |
| 125° | 806.0 | 864.5 | 806.0 | 747.5 | 732.9 | 633.2 | 500.2 | 433.7 | 397.1 | 323.7 | 268.7 |
| 127.5° | 746.4 | 795.8 | 746.4 | 697.1 | 684.7 | 599.1 | 484.9 | 427.8 | 396.1 | 332.5 | 284.8 |
| 130° | 711.2 | 756.8 | 711.2 | 665.6 | 654.2 | 578.0 | 476.4 | 425.5 | 396.6 | 338.8 | 295.5 |
| 132.5° | 679.3 | 720.2 | 679.3 | 638.5 | 628.3 | 560.1 | 469.0 | 423.5 | 397.1 | 344.0 | 304.3 |
| 135° | 635.7 | 670.9 | 635.7 | 600.5 | 591.6 | 534.5 | 458.3 | 420.2 | 396.7 | 349.7 | 314.4 |
| 137.5° | 600.5 | 629.4 | 600.5 | 571.7 | 564.5 | 516.2 | 451.8 | 419.6 | 399.1 | 358.1 | 327.4 |
| 140° | 576.5 | 603.5 | 576.5 | 549.5 | 542.8 | 501.0 | 445.4 | 417.6 | 399.5 | 363.3 | 336.1 |
| 142.5° | 556.5 | 579.7 | 556.5 | 533.4 | 527.6 | 490.9 | 442.1 | 417.6 | 401.0 | 367.6 | 342.6 |
| 145° | 526.7 | 544.2 | 526.7 | 509.1 | 504.8 | 474.7 | 434.8 | 414.8 | 401.0 | 373.2 | 352.5 |
| 147.5° | 503.8 | 518.3 | 503.8 | 489.2 | 485.6 | 462.0 | 430.5 | 414.8 | 403.7 | 381.5 | 364.9 |
| 150° | 489.3 | 501.1 | 489.3 | 477.5 | 474.6 | 454.6 | 428.1 | 414.8 | 405.2 | 385.9 | 371.4 |
| 152.5° | 476.9 | 485.8 | 476.9 | 468.0 | 465.8 | 448.8 | 426.2 | 414.8 | 406.1 | 388.7 | 375.6 |
| 155° | 462.7 | 468.6 | 462.7 | 456.8 | 455.4 | 441.8 | 423.8 | 414.8 | 408.2 | 394.9 | 384.9 |
| 157.5° | 451.5 | 455.6 | 451.5 | 447.4 | 446.4 | 435.8 | 421.8 | 414.8 | 410.2 | 401.1 | 394.2 |
| 160° | 444.8 | 447.2 | 444.8 | 442.4 | 441.9 | 432.9 | 420.8 | 414.8 | 411.2 | 403.9 | 398.4 |
| 162.5° | 440.4 | 442.7 | 440.4 | 438.2 | 437.6 | 430.0 | 419.9 | 414.8 | 412.2 | 406.9 | 403.0 |
| 165° | 434.2 | 436.5 | 434.2 | 431.8 | 431.2 | 425.7 | 418.4 | 414.8 | 413.6 | 411.2 | 409.4 |
| 167.5° | 429.6 | 430.6 | 429.6 | 428.6 | 428.3 | 424.8 | 420.0 | 417.6 | 416.6 | 414.6 | 413.1 |
| 170° | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 424.8 | 420.0 | 417.6 | 417.5 | 417.4 | 417.3 |
| 172.5° | 425.0 | 424.1 | 425.0 | 425.9 | 426.1 | 423.3 | 419.5 | 417.6 | 417.6 | 417.6 | 417.6 |
| 175° | 423.0 | 423.0 | 423.0 | 423.0 | 423.0 | 421.2 | 418.8 | 417.6 | 418.2 | 419.3 | 420.2 |
| 177.5° | 421.2 | 420.2 | 421.2 | 422.2 | 422.4 | 421.0 | 419.1 | 418.2 | 418.6 | 419.5 | 420.2 |
| 180° | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 |



TEST NUMBER: P934834

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 |
| 2.5° | 1288.4 | 1281.1 | 1281.1 | 1269.1 | 1264.3 | 1260.8 | 1254.8 | 1236.7 | 1231.9 | 1227.1 | 1234.3 |
| 5° | 1299.2 | 1286.0 | 1276.4 | 1254.8 | 1236.7 | 1229.5 | 1206.6 | 1163.4 | 1134.5 | 1112.9 | 1100.9 |
| 7.5° | 1301.6 | 1284.8 | 1266.8 | 1233.1 | 1189.8 | 1170.6 | 1100.9 | 1021.6 | 1000.0 | 980.7 | 968.7 |
| 10° | 1299.2 | 1280.0 | 1254.8 | 1204.3 | 1102.1 | 1068.5 | 998.7 | 947.0 | 933.8 | 930.2 | 933.8 |
| 12.5° | 1290.8 | 1272.8 | 1237.9 | 1153.8 | 1010.8 | 988.0 | 947.0 | 917.0 | 914.6 | 920.6 | 953.0 |
| 15° | 1276.4 | 1259.6 | 1218.6 | 1086.5 | 960.3 | 943.5 | 914.6 | 903.8 | 917.0 | 959.0 | 1056.5 |
| 17.5° | 1261.9 | 1242.7 | 1192.3 | 1020.3 | 921.8 | 909.8 | 889.4 | 911.0 | 985.5 | 1042.0 | 1074.5 |
| 20° | 1242.7 | 1219.9 | 1162.2 | 972.3 | 894.2 | 883.3 | 873.7 | 971.1 | 1027.6 | 1048.0 | 1066.0 |
| 22.5° | 1219.9 | 1195.8 | 1121.3 | 938.7 | 865.3 | 856.9 | 862.9 | 1004.8 | 1027.6 | 1042.0 | 1057.6 |
| 25° | 1189.8 | 1169.4 | 1073.3 | 912.2 | 842.5 | 832.9 | 855.7 | 1001.1 | 1014.3 | 1018.0 | 1049.2 |
| 27.5° | 1162.2 | 1135.8 | 1022.8 | 888.2 | 814.9 | 811.2 | 861.7 | 985.5 | 995.1 | 998.7 | 1032.3 |
| 30° | 1128.5 | 1088.8 | 966.3 | 862.9 | 786.0 | 784.8 | 862.9 | 966.3 | 963.9 | 973.5 | 1007.2 |
| 32.5° | 1093.7 | 1019.2 | 902.5 | 831.7 | 758.4 | 757.2 | 854.5 | 937.5 | 935.0 | 948.3 | 973.5 |
| 35° | 1061.3 | 965.1 | 816.0 | 795.7 | 723.5 | 724.7 | 834.0 | 903.8 | 905.0 | 917.0 | 932.7 |
| 37.5° | 1027.6 | 918.2 | 721.1 | 756.0 | 689.9 | 689.9 | 806.4 | 872.5 | 870.2 | 873.7 | 895.4 |
| 40° | 988.0 | 844.9 | 637.0 | 704.2 | 658.6 | 655.0 | 772.8 | 838.9 | 830.5 | 829.3 | 859.3 |
| 42.5° | 945.8 | 764.4 | 574.5 | 635.7 | 622.6 | 617.7 | 731.9 | 798.0 | 782.4 | 786.0 | 824.5 |
| 45° | 900.2 | 742.7 | 526.4 | 537.2 | 585.3 | 581.7 | 687.4 | 751.2 | 740.4 | 750.0 | 789.7 |
| 47.5° | 854.5 | 699.5 | 510.8 | 445.9 | 545.6 | 544.4 | 638.2 | 705.5 | 699.5 | 709.1 | 751.2 |
| 50° | 792.0 | 651.4 | 509.6 | 382.2 | 501.2 | 505.9 | 579.3 | 661.0 | 661.0 | 669.4 | 713.9 |
| 52.5° | 711.5 | 592.5 | 462.7 | 346.1 | 449.5 | 463.9 | 527.6 | 622.6 | 624.9 | 633.4 | 673.0 |
| 55° | 638.2 | 531.2 | 429.1 | 318.5 | 388.2 | 419.4 | 477.1 | 582.9 | 587.7 | 596.1 | 632.2 |
| 57.5° | 570.9 | 442.3 | 421.9 | 286.1 | 331.7 | 361.8 | 432.6 | 544.4 | 546.9 | 554.1 | 588.9 |
| 60° | 498.8 | 319.6 | 387.0 | 251.2 | 282.4 | 305.3 | 391.8 | 498.8 | 507.2 | 511.9 | 542.1 |
| 62.5° | 417.1 | 232.0 | 350.9 | 227.1 | 258.4 | 263.2 | 358.1 | 455.5 | 466.3 | 469.9 | 487.9 |
| 65° | 296.8 | 194.7 | 298.1 | 206.8 | 233.1 | 234.3 | 322.1 | 411.1 | 420.6 | 426.6 | 439.9 |
| 67.5° | 200.7 | 158.6 | 227.1 | 187.5 | 213.9 | 215.1 | 287.3 | 359.3 | 372.6 | 377.4 | 385.8 |
| 70° | 139.4 | 105.8 | 168.3 | 167.1 | 192.3 | 194.7 | 250.0 | 312.5 | 324.5 | 328.1 | 332.9 |
| 72.5° | 102.2 | 85.3 | 139.4 | 150.3 | 169.5 | 171.8 | 211.5 | 259.6 | 271.6 | 275.3 | 277.6 |
| 75° | 78.1 | 90.1 | 113.0 | 131.0 | 144.2 | 145.5 | 173.1 | 211.5 | 220.0 | 222.3 | 223.5 |
| 77.5° | 62.5 | 84.1 | 83.0 | 105.8 | 117.8 | 115.3 | 135.8 | 163.5 | 170.6 | 170.6 | 170.6 |
| 80° | 46.8 | 66.1 | 62.5 | 75.7 | 86.5 | 84.1 | 97.3 | 116.6 | 119.0 | 121.3 | 120.2 |
| 82.5° | 34.8 | 42.0 | 42.0 | 48.0 | 57.7 | 55.3 | 64.9 | 75.7 | 75.7 | 75.7 | 78.1 |
| 85° | 21.6 | 24.0 | 19.2 | 25.2 | 32.5 | 31.3 | 36.0 | 40.8 | 42.0 | 42.0 | 39.7 |
| 87.5° | 13.2 | 10.8 | 6.0 | 9.6 | 14.5 | 14.5 | 16.8 | 18.0 | 16.8 | 16.8 | 16.8 |
| 90° | 7.4 | 5.1 | 2.8 | 5.1 | 7.4 | 7.9 | 12.5 | 18.5 | 21.5 | 19.1 | 14.3 |
| 92.5° | 49.6 | 30.5 | 11.3 | 30.5 | 49.6 | 54.4 | 76.5 | 106.0 | 120.7 | 105.8 | 76.0 |
| 95° | 97.3 | 62.2 | 27.1 | 62.2 | 97.3 | 106.1 | 188.3 | 297.9 | 352.8 | 314.7 | 238.8 |
| 97.5° | 108.7 | 77.8 | 46.8 | 77.8 | 108.7 | 116.4 | 253.6 | 436.4 | 527.9 | 503.8 | 455.9 |
| 100° | 118.2 | 90.1 | 62.0 | 90.1 | 118.2 | 125.2 | 277.3 | 480.3 | 581.7 | 583.4 | 587.0 |
| 102.5° | 127.3 | 101.2 | 75.0 | 101.2 | 127.3 | 133.9 | 288.3 | 494.1 | 597.0 | 627.6 | 688.7 |
| 105° | 141.4 | 119.2 | 97.0 | 119.2 | 141.4 | 146.9 | 296.4 | 495.7 | 595.3 | 663.9 | 800.9 |
| 107.5° | 160.9 | 140.3 | 119.5 | 140.3 | 160.9 | 166.1 | 297.9 | 473.6 | 561.4 | 657.0 | 848.2 |
| 110° | 172.2 | 153.5 | 134.8 | 153.5 | 172.2 | 176.8 | 295.6 | 454.0 | 533.2 | 640.1 | 853.9 |



TEST NUMBER: P934834

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 185.3 | 167.6 | 149.7 | 167.6 | 185.3 | 189.8 | 295.7 | 437.0 | 507.6 | 617.0 | 835.8 |
| 115° | 205.1 | 188.7 | 172.3 | 188.7 | 205.1 | 209.2 | 298.5 | 417.3 | 476.8 | 582.3 | 793.0 |
| 117.5° | 224.4 | 209.5 | 194.6 | 209.5 | 224.4 | 228.1 | 304.0 | 405.1 | 455.6 | 550.8 | 741.0 |
| 120° | 235.6 | 221.6 | 207.6 | 221.6 | 235.6 | 239.1 | 308.5 | 401.0 | 447.2 | 534.1 | 708.0 |
| 122.5° | 248.5 | 234.4 | 220.2 | 234.4 | 248.5 | 252.1 | 314.9 | 398.8 | 440.7 | 518.9 | 675.5 |
| 125° | 265.5 | 252.6 | 239.7 | 252.6 | 265.5 | 268.7 | 323.7 | 397.1 | 433.7 | 500.2 | 633.2 |
| 127.5° | 281.5 | 268.5 | 255.5 | 268.5 | 281.5 | 284.8 | 332.5 | 396.1 | 427.8 | 484.9 | 599.1 |
| 130° | 292.0 | 278.0 | 264.0 | 278.0 | 292.0 | 295.5 | 338.8 | 396.6 | 425.5 | 476.4 | 578.0 |
| 132.5° | 300.7 | 286.7 | 272.7 | 286.7 | 300.7 | 304.3 | 344.0 | 397.1 | 423.5 | 469.0 | 560.1 |
| 135° | 311.2 | 298.4 | 285.6 | 298.4 | 311.2 | 314.4 | 349.7 | 396.7 | 420.2 | 458.3 | 534.5 |
| 137.5° | 324.2 | 311.6 | 298.9 | 311.6 | 324.2 | 327.4 | 358.1 | 399.1 | 419.6 | 451.8 | 516.2 |
| 140° | 333.2 | 321.6 | 309.9 | 321.6 | 333.2 | 336.1 | 363.3 | 399.5 | 417.6 | 445.4 | 501.0 |
| 142.5° | 339.8 | 329.1 | 318.4 | 329.1 | 339.8 | 342.6 | 367.6 | 401.0 | 417.6 | 442.1 | 490.9 |
| 145° | 350.1 | 340.8 | 331.3 | 340.8 | 350.1 | 352.5 | 373.2 | 401.0 | 414.8 | 434.8 | 474.7 |
| 147.5° | 362.6 | 353.4 | 344.3 | 353.4 | 362.6 | 364.9 | 381.5 | 403.7 | 414.8 | 430.5 | 462.0 |
| 150° | 369.3 | 361.0 | 352.8 | 361.0 | 369.3 | 371.4 | 385.9 | 405.2 | 414.8 | 428.1 | 454.6 |
| 152.5° | 374.0 | 367.8 | 361.5 | 367.8 | 374.0 | 375.6 | 388.7 | 406.1 | 414.8 | 426.2 | 448.8 |
| 155° | 383.7 | 379.1 | 374.5 | 379.1 | 383.7 | 384.9 | 394.9 | 408.2 | 414.8 | 423.8 | 441.8 |
| 157.5° | 393.1 | 388.6 | 384.0 | 388.6 | 393.1 | 394.2 | 401.1 | 410.2 | 414.8 | 421.8 | 435.8 |
| 160° | 397.5 | 394.1 | 390.5 | 394.1 | 397.5 | 398.4 | 403.9 | 411.2 | 414.8 | 420.8 | 432.9 |
| 162.5° | 402.3 | 399.7 | 397.1 | 399.7 | 402.3 | 403.0 | 406.9 | 412.2 | 414.8 | 419.9 | 430.0 |
| 165° | 408.8 | 406.4 | 404.1 | 406.4 | 408.8 | 409.4 | 411.2 | 413.6 | 414.8 | 418.4 | 425.7 |
| 167.5° | 412.8 | 411.6 | 410.5 | 411.6 | 412.8 | 413.1 | 414.6 | 416.6 | 417.6 | 420.0 | 424.8 |
| 170° | 417.1 | 415.9 | 414.8 | 415.9 | 417.1 | 417.3 | 417.4 | 417.5 | 417.6 | 420.0 | 424.8 |
| 172.5° | 417.5 | 417.3 | 417.1 | 417.3 | 417.5 | 417.6 | 417.6 | 417.6 | 417.6 | 419.5 | 423.3 |
| 175° | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 419.3 | 418.2 | 417.6 | 418.8 | 421.2 |
| 177.5° | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 419.5 | 418.6 | 418.2 | 419.1 | 421.0 |
| 180° | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 |



TEST NUMBER: P934834

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 |
| 2.5° | 1225.9 | 1222.3 | 1227.1 | 1213.8 | 1227.1 | 1222.3 | 1225.9 | 1234.3 | 1227.1 | 1231.9 | 1236.7 |
| 5° | 1075.6 | 1069.6 | 1050.4 | 1034.8 | 1050.4 | 1069.6 | 1075.6 | 1100.9 | 1112.9 | 1134.5 | 1163.4 |
| 7.5° | 961.5 | 956.7 | 951.8 | 942.2 | 951.8 | 956.7 | 961.5 | 968.7 | 980.7 | 1000.0 | 1021.6 |
| 10° | 936.2 | 937.5 | 944.7 | 943.5 | 944.7 | 937.5 | 936.2 | 933.8 | 930.2 | 933.8 | 947.0 |
| 12.5° | 1001.1 | 1012.0 | 1051.6 | 1049.2 | 1051.6 | 1012.0 | 1001.1 | 953.0 | 920.6 | 914.6 | 917.0 |
| 15° | 1075.6 | 1079.3 | 1087.7 | 1088.8 | 1087.7 | 1079.3 | 1075.6 | 1056.5 | 959.0 | 917.0 | 903.8 |
| 17.5° | 1082.8 | 1084.1 | 1090.1 | 1090.1 | 1090.1 | 1084.1 | 1082.8 | 1074.5 | 1042.0 | 985.5 | 911.0 |
| 20° | 1076.8 | 1079.3 | 1091.3 | 1093.7 | 1091.3 | 1079.3 | 1076.8 | 1066.0 | 1048.0 | 1027.6 | 971.1 |
| 22.5° | 1074.5 | 1079.3 | 1088.8 | 1087.7 | 1088.8 | 1079.3 | 1074.5 | 1057.6 | 1042.0 | 1027.6 | 1004.8 |
| 25° | 1062.5 | 1062.5 | 1063.6 | 1064.8 | 1063.6 | 1062.5 | 1062.5 | 1049.2 | 1018.0 | 1014.3 | 1001.1 |
| 27.5° | 1037.2 | 1039.6 | 1046.8 | 1045.6 | 1046.8 | 1039.6 | 1037.2 | 1032.3 | 998.7 | 995.1 | 985.5 |
| 30° | 1014.3 | 1012.0 | 1006.0 | 1001.1 | 1006.0 | 1012.0 | 1014.3 | 1007.2 | 973.5 | 963.9 | 966.3 |
| 32.5° | 975.9 | 969.9 | 963.9 | 960.3 | 963.9 | 969.9 | 975.9 | 973.5 | 948.3 | 935.0 | 937.5 |
| 35° | 930.2 | 931.5 | 930.2 | 926.6 | 930.2 | 931.5 | 930.2 | 932.7 | 917.0 | 905.0 | 903.8 |
| 37.5° | 897.8 | 900.2 | 899.0 | 894.2 | 899.0 | 900.2 | 897.8 | 895.4 | 873.7 | 870.2 | 872.5 |
| 40° | 864.2 | 865.3 | 864.2 | 860.5 | 864.2 | 865.3 | 864.2 | 859.3 | 829.3 | 830.5 | 838.9 |
| 42.5° | 831.7 | 830.5 | 826.9 | 824.5 | 826.9 | 830.5 | 831.7 | 824.5 | 786.0 | 782.4 | 798.0 |
| 45° | 794.4 | 795.7 | 788.4 | 784.8 | 788.4 | 795.7 | 794.4 | 789.7 | 750.0 | 740.4 | 751.2 |
| 47.5° | 757.2 | 757.2 | 751.2 | 747.5 | 751.2 | 757.2 | 757.2 | 751.2 | 709.1 | 699.5 | 705.5 |
| 50° | 717.5 | 716.3 | 707.9 | 706.7 | 707.9 | 716.3 | 717.5 | 713.9 | 669.4 | 661.0 | 661.0 |
| 52.5° | 671.9 | 671.9 | 673.0 | 675.4 | 673.0 | 671.9 | 671.9 | 673.0 | 633.4 | 624.9 | 622.6 |
| 55° | 632.2 | 633.4 | 641.7 | 644.2 | 641.7 | 633.4 | 632.2 | 632.2 | 596.1 | 587.7 | 582.9 |
| 57.5° | 591.3 | 591.3 | 597.4 | 597.4 | 597.4 | 591.3 | 591.3 | 588.9 | 554.1 | 546.9 | 544.4 |
| 60° | 544.4 | 546.9 | 551.6 | 550.4 | 551.6 | 546.9 | 544.4 | 542.1 | 511.9 | 507.2 | 498.8 |
| 62.5° | 495.1 | 497.6 | 498.8 | 496.4 | 498.8 | 497.6 | 495.1 | 487.9 | 469.9 | 466.3 | 455.5 |
| 65° | 443.4 | 445.9 | 447.1 | 444.7 | 447.1 | 445.9 | 443.4 | 439.9 | 426.6 | 420.6 | 411.1 |
| 67.5° | 390.6 | 389.4 | 388.2 | 393.0 | 388.2 | 389.4 | 390.6 | 385.8 | 377.4 | 372.6 | 359.3 |
| 70° | 336.5 | 336.5 | 335.3 | 337.7 | 335.3 | 336.5 | 336.5 | 332.9 | 328.1 | 324.5 | 312.5 |
| 72.5° | 278.8 | 277.6 | 282.4 | 278.8 | 282.4 | 277.6 | 278.8 | 277.6 | 275.3 | 271.6 | 259.6 |
| 75° | 222.3 | 224.8 | 222.3 | 226.0 | 222.3 | 224.8 | 222.3 | 223.5 | 222.3 | 220.0 | 211.5 |
| 77.5° | 169.5 | 171.8 | 169.5 | 169.5 | 169.5 | 171.8 | 169.5 | 170.6 | 170.6 | 170.6 | 163.5 |
| 80° | 120.2 | 119.0 | 119.0 | 117.8 | 119.0 | 119.0 | 120.2 | 120.2 | 121.3 | 119.0 | 116.6 |
| 82.5° | 77.0 | 75.7 | 75.7 | 78.1 | 75.7 | 75.7 | 77.0 | 78.1 | 75.7 | 75.7 | 75.7 |
| 85° | 42.0 | 43.3 | 40.8 | 40.8 | 40.8 | 43.3 | 42.0 | 39.7 | 42.0 | 42.0 | 40.8 |
| 87.5° | 15.6 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 15.6 | 16.8 | 16.8 | 16.8 | 18.0 |
| 90° | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 14.3 | 19.1 | 21.5 | 18.5 |
| 92.5° | 53.6 | 51.5 | 42.9 | 34.4 | 42.9 | 51.5 | 53.6 | 76.0 | 105.8 | 120.7 | 106.0 |
| 95° | 181.8 | 175.4 | 149.6 | 123.8 | 149.6 | 175.4 | 181.8 | 238.8 | 314.7 | 352.8 | 297.9 |
| 97.5° | 419.9 | 407.6 | 358.5 | 309.4 | 358.5 | 407.6 | 419.9 | 455.9 | 503.8 | 527.9 | 436.4 |
| 100° | 589.6 | 575.0 | 516.5 | 457.9 | 516.5 | 575.0 | 589.6 | 587.0 | 583.4 | 581.7 | 480.3 |
| 102.5° | 734.5 | 722.0 | 671.9 | 621.7 | 671.9 | 722.0 | 734.5 | 688.7 | 627.6 | 597.0 | 494.1 |
| 105° | 903.7 | 897.0 | 870.1 | 843.1 | 870.1 | 897.0 | 903.7 | 800.9 | 663.9 | 595.3 | 495.7 |
| 107.5° | 991.7 | 993.3 | 999.9 | 1006.4 | 999.9 | 993.3 | 991.7 | 848.2 | 657.0 | 561.4 | 473.6 |
| 110° | 1014.2 | 1021.2 | 1049.4 | 1077.5 | 1049.4 | 1021.2 | 1014.2 | 853.9 | 640.1 | 533.2 | 454.0 |



TEST NUMBER: P934834

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 112.5° | 999.9 | 1010.7 | 1053.8 | 1096.9 | 1053.8 | 1010.7 | 999.9 | 835.8 | 617.0 | 507.6 | 437.0 |
| 115° | 951.1 | 966.0 | 1025.9 | 1085.7 | 1025.9 | 966.0 | 951.1 | 793.0 | 582.3 | 476.8 | 417.3 |
| 117.5° | 883.7 | 900.3 | 966.6 | 1032.9 | 966.6 | 900.3 | 883.7 | 741.0 | 550.8 | 455.6 | 405.1 |
| 120° | 838.3 | 854.4 | 918.8 | 983.2 | 918.8 | 854.4 | 838.3 | 708.0 | 534.1 | 447.2 | 401.0 |
| 122.5° | 792.9 | 808.8 | 872.3 | 935.9 | 872.3 | 808.8 | 792.9 | 675.5 | 518.9 | 440.7 | 398.8 |
| 125° | 732.9 | 747.5 | 806.0 | 864.5 | 806.0 | 747.5 | 732.9 | 633.2 | 500.2 | 433.7 | 397.1 |
| 127.5° | 684.7 | 697.1 | 746.4 | 795.8 | 746.4 | 697.1 | 684.7 | 599.1 | 484.9 | 427.8 | 396.1 |
| 130° | 654.2 | 665.6 | 711.2 | 756.8 | 711.2 | 665.6 | 654.2 | 578.0 | 476.4 | 425.5 | 396.6 |
| 132.5° | 628.3 | 638.5 | 679.3 | 720.2 | 679.3 | 638.5 | 628.3 | 560.1 | 469.0 | 423.5 | 397.1 |
| 135° | 591.6 | 600.5 | 635.7 | 670.9 | 635.7 | 600.5 | 591.6 | 534.5 | 458.3 | 420.2 | 396.7 |
| 137.5° | 564.5 | 571.7 | 600.5 | 629.4 | 600.5 | 571.7 | 564.5 | 516.2 | 451.8 | 419.6 | 399.1 |
| 140° | 542.8 | 549.5 | 576.5 | 603.5 | 576.5 | 549.5 | 542.8 | 501.0 | 445.4 | 417.6 | 399.5 |
| 142.5° | 527.6 | 533.4 | 556.5 | 579.7 | 556.5 | 533.4 | 527.6 | 490.9 | 442.1 | 417.6 | 401.0 |
| 145° | 504.8 | 509.1 | 526.7 | 544.2 | 526.7 | 509.1 | 504.8 | 474.7 | 434.8 | 414.8 | 401.0 |
| 147.5° | 485.6 | 489.2 | 503.8 | 518.3 | 503.8 | 489.2 | 485.6 | 462.0 | 430.5 | 414.8 | 403.7 |
| 150° | 474.6 | 477.5 | 489.3 | 501.1 | 489.3 | 477.5 | 474.6 | 454.6 | 428.1 | 414.8 | 405.2 |
| 152.5° | 465.8 | 468.0 | 476.9 | 485.8 | 476.9 | 468.0 | 465.8 | 448.8 | 426.2 | 414.8 | 406.1 |
| 155° | 455.4 | 456.8 | 462.7 | 468.6 | 462.7 | 456.8 | 455.4 | 441.8 | 423.8 | 414.8 | 408.2 |
| 157.5° | 446.4 | 447.4 | 451.5 | 455.6 | 451.5 | 447.4 | 446.4 | 435.8 | 421.8 | 414.8 | 410.2 |
| 160° | 441.9 | 442.4 | 444.8 | 447.2 | 444.8 | 442.4 | 441.9 | 432.9 | 420.8 | 414.8 | 411.2 |
| 162.5° | 437.6 | 438.2 | 440.4 | 442.7 | 440.4 | 438.2 | 437.6 | 430.0 | 419.9 | 414.8 | 412.2 |
| 165° | 431.2 | 431.8 | 434.2 | 436.5 | 434.2 | 431.8 | 431.2 | 425.7 | 418.4 | 414.8 | 413.6 |
| 167.5° | 428.3 | 428.6 | 429.6 | 430.6 | 429.6 | 428.6 | 428.3 | 424.8 | 420.0 | 417.6 | 416.6 |
| 170° | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 424.8 | 420.0 | 417.6 | 417.5 |
| 172.5° | 426.1 | 425.9 | 425.0 | 424.1 | 425.0 | 425.9 | 426.1 | 423.3 | 419.5 | 417.6 | 417.6 |
| 175° | 423.0 | 423.0 | 423.0 | 423.0 | 423.0 | 423.0 | 423.0 | 421.2 | 418.8 | 417.6 | 418.2 |
| 177.5° | 422.4 | 422.2 | 421.2 | 420.2 | 421.2 | 422.2 | 422.4 | 421.0 | 419.1 | 418.2 | 418.6 |
| 180° | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 |



TEST NUMBER: P934834

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 |
| 2.5° | 1254.8 | 1260.8 | 1264.3 | 1269.1 | 1281.1 |
| 5° | 1206.6 | 1229.5 | 1236.7 | 1254.8 | 1276.4 |
| 7.5° | 1100.9 | 1170.6 | 1189.8 | 1233.1 | 1266.8 |
| 10° | 998.7 | 1068.5 | 1102.1 | 1204.3 | 1254.8 |
| 12.5° | 947.0 | 988.0 | 1010.8 | 1153.8 | 1237.9 |
| 15° | 914.6 | 943.5 | 960.3 | 1086.5 | 1218.6 |
| 17.5° | 889.4 | 909.8 | 921.8 | 1020.3 | 1192.3 |
| 20° | 873.7 | 883.3 | 894.2 | 972.3 | 1162.2 |
| 22.5° | 862.9 | 856.9 | 865.3 | 938.7 | 1121.3 |
| 25° | 855.7 | 832.9 | 842.5 | 912.2 | 1073.3 |
| 27.5° | 861.7 | 811.2 | 814.9 | 888.2 | 1022.8 |
| 30° | 862.9 | 784.8 | 786.0 | 862.9 | 966.3 |
| 32.5° | 854.5 | 757.2 | 758.4 | 831.7 | 902.5 |
| 35° | 834.0 | 724.7 | 723.5 | 795.7 | 816.0 |
| 37.5° | 806.4 | 689.9 | 689.9 | 756.0 | 721.1 |
| 40° | 772.8 | 655.0 | 658.6 | 704.2 | 637.0 |
| 42.5° | 731.9 | 617.7 | 622.6 | 635.7 | 574.5 |
| 45° | 687.4 | 581.7 | 585.3 | 537.2 | 526.4 |
| 47.5° | 638.2 | 544.4 | 545.6 | 445.9 | 510.8 |
| 50° | 579.3 | 505.9 | 501.2 | 382.2 | 509.6 |
| 52.5° | 527.6 | 463.9 | 449.5 | 346.1 | 462.7 |
| 55° | 477.1 | 419.4 | 388.2 | 318.5 | 429.1 |
| 57.5° | 432.6 | 361.8 | 331.7 | 286.1 | 421.9 |
| 60° | 391.8 | 305.3 | 282.4 | 251.2 | 387.0 |
| 62.5° | 358.1 | 263.2 | 258.4 | 227.1 | 350.9 |
| 65° | 322.1 | 234.3 | 233.1 | 206.8 | 298.1 |
| 67.5° | 287.3 | 215.1 | 213.9 | 187.5 | 227.1 |
| 70° | 250.0 | 194.7 | 192.3 | 167.1 | 168.3 |
| 72.5° | 211.5 | 171.8 | 169.5 | 150.3 | 139.4 |
| 75° | 173.1 | 145.5 | 144.2 | 131.0 | 113.0 |
| 77.5° | 135.8 | 115.3 | 117.8 | 105.8 | 83.0 |
| 80° | 97.3 | 84.1 | 86.5 | 75.7 | 62.5 |
| 82.5° | 64.9 | 55.3 | 57.7 | 48.0 | 42.0 |
| 85° | 36.0 | 31.3 | 32.5 | 25.2 | 19.2 |
| 87.5° | 16.8 | 14.5 | 14.5 | 9.6 | 6.0 |
| 90° | 12.5 | 7.9 | 7.4 | 5.1 | 2.8 |
| 92.5° | 76.5 | 54.4 | 49.6 | 30.5 | 11.3 |
| 95° | 188.3 | 106.1 | 97.3 | 62.2 | 27.1 |
| 97.5° | 253.6 | 116.4 | 108.7 | 77.8 | 46.8 |
| 100° | 277.3 | 125.2 | 118.2 | 90.1 | 62.0 |
| 102.5° | 288.3 | 133.9 | 127.3 | 101.2 | 75.0 |
| 105° | 296.4 | 146.9 | 141.4 | 119.2 | 97.0 |
| 107.5° | 297.9 | 166.1 | 160.9 | 140.3 | 119.5 |
| 110° | 295.6 | 176.8 | 172.2 | 153.5 | 134.8 |



TEST NUMBER: P934834

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 295.7 | 189.8 | 185.3 | 167.6 | 149.7 |
| 115° | 298.5 | 209.2 | 205.1 | 188.7 | 172.3 |
| 117.5° | 304.0 | 228.1 | 224.4 | 209.5 | 194.6 |
| 120° | 308.5 | 239.1 | 235.6 | 221.6 | 207.6 |
| 122.5° | 314.9 | 252.1 | 248.5 | 234.4 | 220.2 |
| 125° | 323.7 | 268.7 | 265.5 | 252.6 | 239.7 |
| 127.5° | 332.5 | 284.8 | 281.5 | 268.5 | 255.5 |
| 130° | 338.8 | 295.5 | 292.0 | 278.0 | 264.0 |
| 132.5° | 344.0 | 304.3 | 300.7 | 286.7 | 272.7 |
| 135° | 349.7 | 314.4 | 311.2 | 298.4 | 285.6 |
| 137.5° | 358.1 | 327.4 | 324.2 | 311.6 | 298.9 |
| 140° | 363.3 | 336.1 | 333.2 | 321.6 | 309.9 |
| 142.5° | 367.6 | 342.6 | 339.8 | 329.1 | 318.4 |
| 145° | 373.2 | 352.5 | 350.1 | 340.8 | 331.3 |
| 147.5° | 381.5 | 364.9 | 362.6 | 353.4 | 344.3 |
| 150° | 385.9 | 371.4 | 369.3 | 361.0 | 352.8 |
| 152.5° | 388.7 | 375.6 | 374.0 | 367.8 | 361.5 |
| 155° | 394.9 | 384.9 | 383.7 | 379.1 | 374.5 |
| 157.5° | 401.1 | 394.2 | 393.1 | 388.6 | 384.0 |
| 160° | 403.9 | 398.4 | 397.5 | 394.1 | 390.5 |
| 162.5° | 406.9 | 403.0 | 402.3 | 399.7 | 397.1 |
| 165° | 411.2 | 409.4 | 408.8 | 406.4 | 404.1 |
| 167.5° | 414.6 | 413.1 | 412.8 | 411.6 | 410.5 |
| 170° | 417.4 | 417.3 | 417.1 | 415.9 | 414.8 |
| 172.5° | 417.6 | 417.6 | 417.5 | 417.3 | 417.1 |
| 175° | 419.3 | 420.2 | 420.2 | 420.2 | 420.2 |
| 177.5° | 419.5 | 420.2 | 420.2 | 420.2 | 420.2 |
| 180° | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 |



TEST NUMBER: P934834
 CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-4000K

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 | 13.79 | 14.70 | 14.71 | 15.63 | 16.83 | 16.59 | 17.50 | 17.51 | 18.43 | 19.63 |
| | 3H | 14.27 | 15.09 | 15.20 | 16.03 | 17.25 | 17.93 | 18.74 | 18.86 | 19.68 | 20.91 |
| | 4H | 14.47 | 15.23 | 15.41 | 16.18 | 17.42 | 18.37 | 19.14 | 19.31 | 20.08 | 21.32 |
| | 6H | 14.59 | 15.30 | 15.54 | 16.25 | 17.50 | 18.65 | 19.36 | 19.60 | 20.31 | 21.56 |
| | 8H | 14.59 | 15.26 | 15.55 | 16.24 | 17.48 | 18.72 | 19.39 | 19.68 | 20.36 | 21.61 |
| | 12H | 14.56 | 15.20 | 15.53 | 16.17 | 17.44 | 18.76 | 19.40 | 19.72 | 20.36 | 21.63 |
| 4H | 2H | 14.82 | 15.59 | 15.77 | 16.54 | 17.77 | 17.01 | 17.77 | 17.95 | 18.72 | 19.96 |
| | 3H | 15.85 | 16.49 | 16.81 | 17.47 | 18.72 | 18.51 | 19.15 | 19.46 | 20.13 | 21.37 |
| | 4H | 16.13 | 16.72 | 17.10 | 17.69 | 18.96 | 19.03 | 19.61 | 20.00 | 20.59 | 21.86 |
| | 6H | 16.26 | 16.76 | 17.24 | 17.76 | 19.03 | 19.39 | 19.89 | 20.37 | 20.89 | 22.16 |
| | 8H | 16.27 | 16.74 | 17.25 | 17.73 | 19.01 | 19.49 | 19.96 | 20.48 | 20.95 | 22.24 |
| | 12H | 16.24 | 16.66 | 17.24 | 17.67 | 18.96 | 19.55 | 19.97 | 20.55 | 20.98 | 22.27 |
| 8H | 4H | 16.58 | 17.05 | 17.57 | 18.04 | 19.33 | 19.16 | 19.63 | 20.14 | 20.62 | 21.91 |
| | 6H | 16.85 | 17.24 | 17.85 | 18.27 | 19.55 | 19.59 | 19.98 | 20.60 | 21.01 | 22.29 |
| | 8H | 16.89 | 17.23 | 17.91 | 18.25 | 19.56 | 19.74 | 20.08 | 20.75 | 21.10 | 22.40 |
| | 12H | 16.88 | 17.18 | 17.90 | 18.19 | 19.54 | 19.83 | 20.13 | 20.85 | 21.15 | 22.49 |
| 12H | 4H | 16.59 | 17.02 | 17.59 | 18.02 | 19.31 | 19.13 | 19.55 | 20.13 | 20.56 | 21.85 |
| | 6H | 16.91 | 17.25 | 17.92 | 18.27 | 19.57 | 19.59 | 19.93 | 20.60 | 20.95 | 22.25 |
| | 8H | 16.98 | 17.28 | 18.00 | 18.29 | 19.64 | 19.75 | 20.05 | 20.76 | 21.06 | 22.41 |