

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: P934231

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934231
REPORT IS A COMBINATION OF REPORTS P933690 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

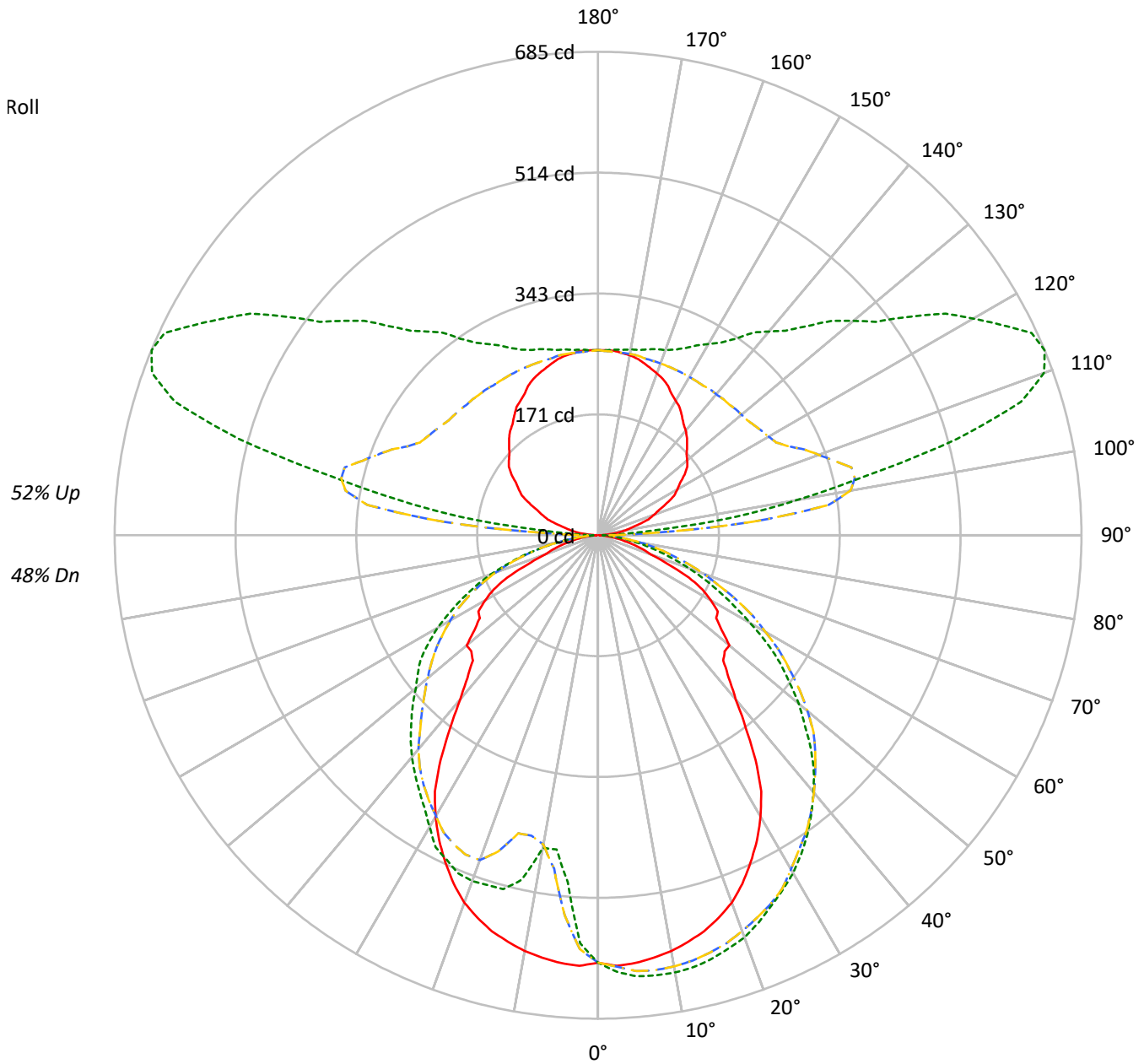
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3271.3 lumens
Efficiency: N/A
Efficacy: 115.2 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): 28.4
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: P934231
CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

Luminous Intensity Polar Plot



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



TEST NUMBER: P934231

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 54 | 54 | 54 | 48 | 48 | 48 | 48 |
| 1 | 97 | 93 | 89 | 86 | 89 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 56 | 48 | 47 | 46 | 41 | 41 | 41 | 41 |
| 2 | 89 | 81 | 75 | 70 | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 50 | 47 | 42 | 40 | 39 | 34 | 34 | 34 | 34 |
| 3 | 81 | 71 | 64 | 58 | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 46 | 43 | 40 | 38 | 35 | 33 | 29 | 29 | 29 | 29 |
| 4 | 74 | 63 | 55 | 49 | 68 | 58 | 52 | 46 | 50 | 44 | 40 | 41 | 37 | 34 | 33 | 31 | 28 | 25 | 25 | 25 | 25 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 | 21 | 21 | 21 | 21 |
| 6 | 62 | 50 | 42 | 37 | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 | 19 | 19 | 19 |
| 7 | 58 | 45 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 22 | 19 | 17 | 17 | 17 | 17 |
| 8 | 54 | 41 | 34 | 28 | 49 | 38 | 31 | 27 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 20 | 17 | 15 | 15 | 15 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 16 | 13 | 13 | 13 | 13 |
| 10 | 47 | 34 | 27 | 22 | 43 | 32 | 26 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 20 | 16 | 14 | 12 | 12 | 12 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 5619 | 5619 | 5619 | 5619 |
| 5° | 5654 | 5672 | 5654 | 4459 |
| 10° | 5611 | 5587 | 5611 | 3994 |
| 15° | 5542 | 5465 | 5542 | 4564 |
| 20° | 5420 | 5322 | 5420 | 4574 |
| 25° | 5177 | 5113 | 5177 | 4476 |
| 30° | 4864 | 4940 | 4864 | 4264 |
| 35° | 4331 | 4720 | 4331 | 4030 |
| 40° | 3602 | 4462 | 3602 | 3854 |
| 45° | 3212 | 4159 | 3212 | 3649 |
| 50° | 3405 | 3798 | 3405 | 3446 |
| 55° | 3194 | 3409 | 3194 | 3329 |
| 60° | 3282 | 2894 | 3282 | 3049 |
| 65° | 2959 | 2393 | 2959 | 2675 |
| 70° | 2036 | 1907 | 2036 | 2243 |
| 75° | 1764 | 1409 | 1764 | 1688 |
| 80° | 1395 | 933 | 1395 | 1014 |
| 85° | 754 | 493 | 754 | 420 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4932 cd/sqm



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.7 | 1.7 |
| 10°-20° | 155.2 | 4.7 |
| 20°-30° | 239.9 | 7.3 |
| 30°-40° | 286.4 | 8.8 |
| 40°-50° | 288.0 | 8.8 |
| 50°-60° | 250.6 | 7.7 |
| 60°-70° | 177.7 | 5.4 |
| 70°-80° | 94.0 | 2.9 |
| 80°-90° | 24.4 | 0.7 |
| 90°-100° | 127.8 | 3.9 |
| 100°-110° | 336.1 | 10.3 |
| 110°-120° | 348.5 | 10.7 |
| 120°-130° | 279.6 | 8.5 |
| 130°-140° | 219.4 | 6.7 |
| 140°-150° | 168.4 | 5.1 |
| 150°-160° | 121.3 | 3.7 |
| 160°-170° | 74.2 | 2.3 |
| 170°-180° | 25.1 | 0.8 |
| 0°-30° | 449.7 | 13.7 |
| 0°-40° | 736.1 | 22.5 |
| 0°-60° | 1274.8 | 39.0 |
| 0°-90° | 1570.9 | 48.0 |
| 90°-120° | 812.5 | 24.8 |
| 90°-150° | 1479.9 | 45.2 |
| 90°-180° | 1700.0 | 52.0 |
| 0°-180° | 3271.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 606 | 606 | 606 | 606 | 606 | |
| 5° | 608 | 627 | 608 | 493 | 608 | 58 |
| 15° | 581 | 622 | 581 | 519 | 581 | 163 |
| 25° | 512 | 580 | 512 | 508 | 512 | 235 |
| 35° | 389 | 517 | 389 | 442 | 389 | 241 |
| 45° | 251 | 426 | 251 | 374 | 251 | 201 |
| 55° | 204 | 314 | 204 | 307 | 204 | 188 |
| 65° | 142 | 190 | 142 | 212 | 142 | 136 |
| 75° | 54 | 90 | 54 | 108 | 54 | 57 |
| 85° | 9 | 23 | 9 | 20 | 9 | 12 |
| 90° | 2 | 7 | 2 | 7 | 2 | 2 |
| 95° | 17 | 77 | 17 | 77 | 17 | 19 |
| 105° | 61 | 526 | 61 | 526 | 61 | 64 |
| 115° | 108 | 678 | 108 | 678 | 108 | 106 |
| 125° | 150 | 540 | 150 | 540 | 150 | 133 |
| 135° | 178 | 419 | 178 | 419 | 178 | 138 |
| 145° | 207 | 340 | 207 | 340 | 207 | 130 |
| 155° | 234 | 293 | 234 | 293 | 234 | 107 |
| 165° | 252 | 273 | 252 | 273 | 252 | 71 |
| 175° | 262 | 264 | 262 | 264 | 262 | 25 |
| 180° | 262 | 262 | 262 | 262 | 262 | |



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 |
| 2.5° | 610.6 | 610.6 | 614.0 | 615.2 | 615.2 | 613.5 | 611.8 | 613.5 | 618.6 | 620.4 | 619.8 |
| 5° | 608.3 | 612.9 | 619.2 | 620.4 | 621.5 | 621.0 | 619.8 | 621.0 | 626.7 | 627.8 | 628.4 |
| 7.5° | 603.8 | 612.3 | 620.4 | 622.1 | 623.8 | 622.1 | 621.5 | 622.7 | 628.4 | 629.5 | 629.5 |
| 10° | 598.1 | 610.0 | 619.2 | 620.4 | 622.1 | 620.4 | 620.4 | 622.7 | 628.4 | 629.5 | 630.1 |
| 12.5° | 590.0 | 606.6 | 615.2 | 616.3 | 618.6 | 618.0 | 617.5 | 619.8 | 625.6 | 626.7 | 626.7 |
| 15° | 580.8 | 600.3 | 608.3 | 609.5 | 613.5 | 612.3 | 612.3 | 614.6 | 621.0 | 622.7 | 622.1 |
| 17.5° | 568.3 | 592.3 | 601.5 | 603.2 | 606.1 | 605.5 | 606.1 | 608.3 | 614.0 | 615.2 | 615.8 |
| 20° | 553.9 | 581.4 | 592.3 | 594.0 | 596.9 | 596.9 | 596.9 | 599.8 | 605.5 | 607.8 | 607.8 |
| 22.5° | 534.4 | 570.0 | 581.4 | 582.6 | 586.0 | 586.0 | 587.1 | 591.1 | 596.3 | 596.9 | 596.9 |
| 25° | 511.5 | 557.3 | 567.1 | 570.6 | 574.0 | 575.7 | 577.4 | 579.7 | 581.4 | 580.8 | 581.4 |
| 27.5° | 487.5 | 541.3 | 553.9 | 556.2 | 560.8 | 562.5 | 564.8 | 565.3 | 565.9 | 567.7 | 566.5 |
| 30° | 460.5 | 519.0 | 537.8 | 540.2 | 547.6 | 548.8 | 546.5 | 547.6 | 550.5 | 551.6 | 552.8 |
| 32.5° | 430.2 | 485.7 | 521.3 | 526.4 | 533.3 | 529.9 | 529.3 | 531.0 | 535.6 | 535.6 | 536.7 |
| 35° | 389.0 | 459.9 | 505.8 | 510.4 | 515.6 | 511.5 | 513.8 | 514.4 | 517.3 | 519.0 | 518.4 |
| 37.5° | 343.7 | 437.7 | 489.8 | 493.2 | 497.2 | 492.1 | 495.5 | 497.2 | 499.5 | 498.4 | 498.4 |
| 40° | 303.6 | 402.7 | 470.9 | 473.2 | 476.6 | 472.6 | 476.0 | 477.2 | 478.3 | 477.2 | 476.6 |
| 42.5° | 273.8 | 364.3 | 450.8 | 453.7 | 451.4 | 454.2 | 455.4 | 457.7 | 455.9 | 453.7 | 453.7 |
| 45° | 250.9 | 354.0 | 429.0 | 432.4 | 429.0 | 433.6 | 435.3 | 435.3 | 430.2 | 429.0 | 428.4 |
| 47.5° | 243.4 | 333.4 | 407.2 | 407.2 | 405.5 | 411.3 | 414.2 | 410.2 | 405.0 | 403.2 | 403.2 |
| 50° | 242.9 | 310.5 | 377.5 | 375.2 | 383.2 | 390.1 | 387.3 | 383.2 | 379.2 | 372.9 | 372.9 |
| 52.5° | 220.5 | 282.4 | 339.1 | 347.7 | 360.3 | 364.3 | 359.8 | 355.7 | 348.8 | 346.0 | 343.7 |
| 55° | 204.5 | 253.2 | 304.2 | 321.3 | 334.6 | 339.7 | 331.1 | 327.0 | 316.8 | 315.1 | 313.9 |
| 57.5° | 201.1 | 210.8 | 272.1 | 293.8 | 309.9 | 309.4 | 304.2 | 296.7 | 288.1 | 286.4 | 285.9 |
| 60° | 184.5 | 152.4 | 237.7 | 263.5 | 280.1 | 278.4 | 273.8 | 266.9 | 258.9 | 257.8 | 256.7 |
| 62.5° | 167.2 | 110.5 | 198.8 | 228.0 | 251.5 | 250.9 | 246.9 | 236.6 | 230.9 | 228.0 | 225.7 |
| 65° | 142.0 | 92.8 | 141.5 | 189.6 | 223.4 | 224.6 | 215.9 | 208.5 | 202.2 | 198.8 | 198.2 |
| 67.5° | 108.3 | 75.6 | 95.7 | 158.1 | 196.4 | 195.3 | 184.5 | 181.0 | 173.0 | 171.3 | 167.8 |
| 70° | 80.2 | 50.4 | 66.5 | 128.3 | 170.1 | 167.2 | 158.7 | 154.7 | 147.3 | 143.2 | 140.9 |
| 72.5° | 66.5 | 40.7 | 48.7 | 99.7 | 143.2 | 139.7 | 132.3 | 127.8 | 121.5 | 118.0 | 115.7 |
| 75° | 53.8 | 43.0 | 37.2 | 73.9 | 116.2 | 114.0 | 107.1 | 102.5 | 97.4 | 92.8 | 93.4 |
| 77.5° | 39.5 | 40.1 | 29.8 | 54.4 | 92.2 | 88.8 | 84.8 | 79.1 | 76.8 | 72.2 | 72.2 |
| 80° | 29.8 | 31.5 | 22.4 | 37.2 | 66.5 | 66.5 | 63.0 | 59.0 | 55.0 | 52.7 | 52.7 |
| 82.5° | 20.1 | 20.1 | 16.6 | 23.5 | 45.3 | 43.6 | 41.3 | 40.1 | 37.8 | 36.6 | 36.6 |
| 85° | 9.1 | 11.4 | 10.3 | 14.3 | 24.6 | 25.8 | 25.8 | 24.6 | 24.1 | 22.9 | 23.5 |
| 87.5° | 2.9 | 5.1 | 6.3 | 8.0 | 12.6 | 13.2 | 13.8 | 13.8 | 13.8 | 14.3 | 14.3 |
| 90° | 1.8 | 3.2 | 4.6 | 5.0 | 7.8 | 11.5 | 13.4 | 11.9 | 8.9 | 6.7 | 6.7 |
| 92.5° | 7.0 | 19.0 | 31.0 | 34.0 | 47.7 | 66.1 | 75.3 | 66.0 | 47.4 | 33.5 | 32.1 |
| 95° | 16.9 | 38.8 | 60.7 | 66.2 | 117.5 | 185.9 | 220.2 | 196.4 | 149.0 | 113.5 | 109.5 |
| 97.5° | 29.2 | 48.5 | 67.8 | 72.7 | 158.3 | 272.5 | 329.5 | 314.6 | 284.6 | 262.1 | 254.4 |
| 100° | 38.7 | 56.2 | 73.8 | 78.2 | 173.1 | 299.8 | 363.2 | 364.3 | 366.5 | 368.1 | 359.0 |
| 102.5° | 46.8 | 63.2 | 79.5 | 83.6 | 180.0 | 308.4 | 372.7 | 391.8 | 430.0 | 458.6 | 450.7 |
| 105° | 60.6 | 74.4 | 88.2 | 91.7 | 185.0 | 309.5 | 371.6 | 414.4 | 500.0 | 564.2 | 560.1 |
| 107.5° | 74.7 | 87.5 | 100.4 | 103.7 | 185.9 | 295.7 | 350.5 | 410.2 | 529.6 | 619.2 | 620.2 |
| 110° | 84.1 | 95.7 | 107.4 | 110.4 | 184.6 | 283.5 | 332.9 | 399.6 | 533.1 | 633.3 | 637.6 |



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 93.4 | 104.5 | 115.6 | 118.5 | 184.6 | 272.8 | 316.9 | 385.2 | 521.8 | 624.3 | 631.0 |
| 115° | 107.5 | 117.8 | 128.0 | 130.6 | 186.3 | 260.5 | 297.7 | 363.4 | 495.1 | 593.8 | 603.1 |
| 117.5° | 121.5 | 130.8 | 140.1 | 142.4 | 189.8 | 252.9 | 284.5 | 343.9 | 462.6 | 551.7 | 562.0 |
| 120° | 129.6 | 138.4 | 147.1 | 149.3 | 192.6 | 250.3 | 279.2 | 333.5 | 442.0 | 523.4 | 533.5 |
| 122.5° | 137.5 | 146.4 | 155.2 | 157.4 | 196.6 | 249.0 | 275.1 | 324.0 | 421.8 | 495.1 | 505.0 |
| 125° | 149.6 | 157.7 | 165.7 | 167.8 | 202.1 | 247.9 | 270.8 | 312.3 | 395.3 | 457.6 | 466.7 |
| 127.5° | 159.5 | 167.7 | 175.8 | 177.8 | 207.6 | 247.3 | 267.1 | 302.7 | 373.9 | 427.4 | 435.1 |
| 130° | 164.8 | 173.6 | 182.3 | 184.5 | 211.6 | 247.6 | 265.6 | 297.4 | 360.9 | 408.4 | 415.5 |
| 132.5° | 170.2 | 179.0 | 187.7 | 190.0 | 214.8 | 247.9 | 264.4 | 292.8 | 349.6 | 392.2 | 398.6 |
| 135° | 178.3 | 186.3 | 194.3 | 196.3 | 218.3 | 247.6 | 262.3 | 286.0 | 333.6 | 369.3 | 374.8 |
| 137.5° | 186.6 | 194.5 | 202.4 | 204.4 | 223.6 | 249.1 | 262.0 | 282.0 | 322.3 | 352.4 | 356.9 |
| 140° | 193.5 | 200.7 | 208.1 | 209.9 | 226.8 | 249.4 | 260.7 | 278.1 | 312.9 | 338.9 | 343.1 |
| 142.5° | 198.8 | 205.5 | 212.2 | 213.9 | 229.5 | 250.3 | 260.7 | 276.0 | 306.5 | 329.4 | 332.9 |
| 145° | 206.9 | 212.7 | 218.6 | 220.0 | 233.0 | 250.3 | 259.0 | 271.4 | 296.4 | 315.1 | 317.8 |
| 147.5° | 215.0 | 220.7 | 226.3 | 227.8 | 238.2 | 252.1 | 259.0 | 268.8 | 288.4 | 303.1 | 305.4 |
| 150° | 220.2 | 225.3 | 230.5 | 231.8 | 240.9 | 252.9 | 259.0 | 267.3 | 283.8 | 296.3 | 298.2 |
| 152.5° | 225.7 | 229.6 | 233.5 | 234.5 | 242.7 | 253.5 | 259.0 | 266.1 | 280.2 | 290.8 | 292.2 |
| 155° | 233.8 | 236.7 | 239.6 | 240.3 | 246.5 | 254.8 | 259.0 | 264.6 | 275.9 | 284.3 | 285.3 |
| 157.5° | 239.8 | 242.6 | 245.4 | 246.1 | 250.3 | 256.1 | 259.0 | 263.3 | 272.1 | 278.7 | 279.4 |
| 160° | 243.9 | 246.0 | 248.2 | 248.7 | 252.1 | 256.7 | 259.0 | 262.7 | 270.2 | 275.9 | 276.2 |
| 162.5° | 247.9 | 249.5 | 251.1 | 251.5 | 254.0 | 257.3 | 259.0 | 262.1 | 268.5 | 273.2 | 273.6 |
| 165° | 252.3 | 253.8 | 255.3 | 255.6 | 256.8 | 258.2 | 259.0 | 261.2 | 265.7 | 269.1 | 269.5 |
| 167.5° | 256.3 | 257.0 | 257.7 | 257.9 | 258.8 | 260.1 | 260.7 | 262.2 | 265.2 | 267.4 | 267.6 |
| 170° | 259.0 | 259.7 | 260.3 | 260.5 | 260.6 | 260.7 | 260.7 | 262.2 | 265.2 | 267.4 | 267.4 |
| 172.5° | 260.3 | 260.5 | 260.7 | 260.7 | 260.7 | 260.7 | 260.7 | 261.9 | 264.2 | 266.0 | 265.8 |
| 175° | 262.3 | 262.3 | 262.3 | 262.3 | 261.8 | 261.0 | 260.7 | 261.4 | 263.0 | 264.1 | 264.1 |
| 177.5° | 262.3 | 262.3 | 262.3 | 262.3 | 261.9 | 261.4 | 261.1 | 261.7 | 262.9 | 263.8 | 263.6 |
| 180° | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 |



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 0° | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 |
| 2.5° | 621.0 | 619.2 | 621.0 | 619.8 | 620.4 | 618.6 | 613.5 | 611.8 | 613.5 | 615.2 | 615.2 |
| 5° | 628.4 | 627.3 | 628.4 | 628.4 | 627.8 | 626.7 | 621.0 | 619.8 | 621.0 | 621.5 | 620.4 |
| 7.5° | 630.7 | 629.0 | 630.7 | 629.5 | 629.5 | 628.4 | 622.7 | 621.5 | 622.1 | 623.8 | 622.1 |
| 10° | 630.7 | 629.0 | 630.7 | 630.1 | 629.5 | 628.4 | 622.7 | 620.4 | 620.4 | 622.1 | 620.4 |
| 12.5° | 627.8 | 626.7 | 627.8 | 626.7 | 626.7 | 625.6 | 619.8 | 617.5 | 618.0 | 618.6 | 616.3 |
| 15° | 623.3 | 621.5 | 623.3 | 622.1 | 622.7 | 621.0 | 614.6 | 612.3 | 612.3 | 613.5 | 609.5 |
| 17.5° | 616.3 | 614.0 | 616.3 | 615.8 | 615.2 | 614.0 | 608.3 | 606.1 | 605.5 | 606.1 | 603.2 |
| 20° | 608.3 | 606.6 | 608.3 | 607.8 | 607.8 | 605.5 | 599.8 | 596.9 | 596.9 | 596.9 | 594.0 |
| 22.5° | 595.8 | 594.0 | 595.8 | 596.9 | 596.9 | 596.3 | 591.1 | 587.1 | 586.0 | 586.0 | 582.6 |
| 25° | 581.4 | 579.7 | 581.4 | 581.4 | 580.8 | 581.4 | 579.7 | 577.4 | 575.7 | 574.0 | 570.6 |
| 27.5° | 567.7 | 566.5 | 567.7 | 566.5 | 567.7 | 565.9 | 565.3 | 564.8 | 562.5 | 560.8 | 556.2 |
| 30° | 553.9 | 552.8 | 553.9 | 552.8 | 551.6 | 550.5 | 547.6 | 546.5 | 548.8 | 547.6 | 540.2 |
| 32.5° | 536.7 | 535.6 | 536.7 | 536.7 | 535.6 | 535.6 | 531.0 | 529.3 | 529.9 | 533.3 | 526.4 |
| 35° | 519.0 | 517.3 | 519.0 | 518.4 | 519.0 | 517.3 | 514.4 | 513.8 | 511.5 | 515.6 | 510.4 |
| 37.5° | 498.4 | 496.7 | 498.4 | 498.4 | 498.4 | 499.5 | 497.2 | 495.5 | 492.1 | 497.2 | 493.2 |
| 40° | 477.2 | 474.9 | 477.2 | 476.6 | 477.2 | 478.3 | 477.2 | 476.0 | 472.6 | 476.6 | 473.2 |
| 42.5° | 453.1 | 452.5 | 453.1 | 453.7 | 453.7 | 455.9 | 457.7 | 455.4 | 454.2 | 451.4 | 453.7 |
| 45° | 427.3 | 426.2 | 427.3 | 428.4 | 429.0 | 430.2 | 435.3 | 435.3 | 433.6 | 429.0 | 432.4 |
| 47.5° | 399.8 | 397.0 | 399.8 | 403.2 | 403.2 | 405.0 | 410.2 | 414.2 | 411.3 | 405.5 | 407.2 |
| 50° | 370.6 | 371.2 | 370.6 | 372.9 | 372.9 | 379.2 | 383.2 | 387.3 | 390.1 | 383.2 | 375.2 |
| 52.5° | 342.0 | 341.4 | 342.0 | 343.7 | 346.0 | 348.8 | 355.7 | 359.8 | 364.3 | 360.3 | 347.7 |
| 55° | 313.3 | 314.5 | 313.3 | 313.9 | 315.1 | 316.8 | 327.0 | 331.1 | 339.7 | 334.6 | 321.3 |
| 57.5° | 284.7 | 283.0 | 284.7 | 285.9 | 286.4 | 288.1 | 296.7 | 304.2 | 309.4 | 309.9 | 293.8 |
| 60° | 251.5 | 249.1 | 251.5 | 256.7 | 257.8 | 258.9 | 266.9 | 273.8 | 278.4 | 280.1 | 263.5 |
| 62.5° | 222.2 | 218.2 | 222.2 | 225.7 | 228.0 | 230.9 | 236.6 | 246.9 | 250.9 | 251.5 | 228.0 |
| 65° | 191.3 | 189.6 | 191.3 | 198.2 | 198.8 | 202.2 | 208.5 | 215.9 | 224.6 | 223.4 | 189.6 |
| 67.5° | 163.2 | 163.2 | 163.2 | 167.8 | 171.3 | 173.0 | 181.0 | 184.5 | 195.3 | 196.4 | 158.1 |
| 70° | 137.5 | 136.9 | 137.5 | 140.9 | 143.2 | 147.3 | 154.7 | 158.7 | 167.2 | 170.1 | 128.3 |
| 72.5° | 112.8 | 112.2 | 112.8 | 115.7 | 118.0 | 121.5 | 127.8 | 132.3 | 139.7 | 143.2 | 99.7 |
| 75° | 91.1 | 89.9 | 91.1 | 93.4 | 92.8 | 97.4 | 102.5 | 107.1 | 114.0 | 116.2 | 73.9 |
| 77.5° | 69.9 | 69.9 | 69.9 | 72.2 | 72.2 | 76.8 | 79.1 | 84.8 | 88.8 | 92.2 | 54.4 |
| 80° | 52.1 | 51.6 | 52.1 | 52.7 | 52.7 | 55.0 | 59.0 | 63.0 | 66.5 | 66.5 | 37.2 |
| 82.5° | 36.6 | 35.5 | 36.6 | 36.6 | 36.6 | 37.8 | 40.1 | 41.3 | 43.6 | 45.3 | 23.5 |
| 85° | 22.9 | 22.9 | 22.9 | 23.5 | 22.9 | 24.1 | 24.6 | 25.8 | 25.8 | 24.6 | 14.3 |
| 87.5° | 14.9 | 14.3 | 14.9 | 14.3 | 14.3 | 13.8 | 13.8 | 13.8 | 13.2 | 12.6 | 8.0 |
| 90° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 8.9 | 11.9 | 13.4 | 11.5 | 7.8 | 5.0 |
| 92.5° | 26.8 | 21.4 | 26.8 | 32.1 | 33.5 | 47.4 | 66.0 | 75.3 | 66.1 | 47.7 | 34.0 |
| 95° | 93.4 | 77.3 | 93.4 | 109.5 | 113.5 | 149.0 | 196.4 | 220.2 | 185.9 | 117.5 | 66.2 |
| 97.5° | 223.8 | 193.1 | 223.8 | 254.4 | 262.1 | 284.6 | 314.6 | 329.5 | 272.5 | 158.3 | 72.7 |
| 100° | 322.4 | 285.9 | 322.4 | 359.0 | 368.1 | 366.5 | 364.3 | 363.2 | 299.8 | 173.1 | 78.2 |
| 102.5° | 419.5 | 388.2 | 419.5 | 450.7 | 458.6 | 430.0 | 391.8 | 372.7 | 308.4 | 180.0 | 83.6 |
| 105° | 543.2 | 526.4 | 543.2 | 560.1 | 564.2 | 500.0 | 414.4 | 371.6 | 309.5 | 185.0 | 91.7 |
| 107.5° | 624.2 | 628.3 | 624.2 | 620.2 | 619.2 | 529.6 | 410.2 | 350.5 | 295.7 | 185.9 | 103.7 |
| 110° | 655.1 | 672.6 | 655.1 | 637.6 | 633.3 | 533.1 | 399.6 | 332.9 | 283.5 | 184.6 | 110.4 |



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 657.9 | 684.8 | 657.9 | 631.0 | 624.3 | 521.8 | 385.2 | 316.9 | 272.8 | 184.6 | 118.5 |
| 115° | 640.4 | 677.8 | 640.4 | 603.1 | 593.8 | 495.1 | 363.4 | 297.7 | 260.5 | 186.3 | 130.6 |
| 117.5° | 603.4 | 644.9 | 603.4 | 562.0 | 551.7 | 462.6 | 343.9 | 284.5 | 252.9 | 189.8 | 142.4 |
| 120° | 573.6 | 613.9 | 573.6 | 533.5 | 523.4 | 442.0 | 333.5 | 279.2 | 250.3 | 192.6 | 149.3 |
| 122.5° | 544.7 | 584.3 | 544.7 | 505.0 | 495.1 | 421.8 | 324.0 | 275.1 | 249.0 | 196.6 | 157.4 |
| 125° | 503.2 | 539.7 | 503.2 | 466.7 | 457.6 | 395.3 | 312.3 | 270.8 | 247.9 | 202.1 | 167.8 |
| 127.5° | 465.9 | 496.8 | 465.9 | 435.1 | 427.4 | 373.9 | 302.7 | 267.1 | 247.3 | 207.6 | 177.8 |
| 130° | 444.1 | 472.5 | 444.1 | 415.5 | 408.4 | 360.9 | 297.4 | 265.6 | 247.6 | 211.6 | 184.5 |
| 132.5° | 424.1 | 449.6 | 424.1 | 398.6 | 392.2 | 349.6 | 292.8 | 264.4 | 247.9 | 214.8 | 190.0 |
| 135° | 396.8 | 418.8 | 396.8 | 374.8 | 369.3 | 333.6 | 286.0 | 262.3 | 247.6 | 218.3 | 196.3 |
| 137.5° | 374.9 | 392.9 | 374.9 | 356.9 | 352.4 | 322.3 | 282.0 | 262.0 | 249.1 | 223.6 | 204.4 |
| 140° | 359.9 | 376.8 | 359.9 | 343.1 | 338.9 | 312.9 | 278.1 | 260.7 | 249.4 | 226.8 | 209.9 |
| 142.5° | 347.5 | 362.0 | 347.5 | 332.9 | 329.4 | 306.5 | 276.0 | 260.7 | 250.3 | 229.5 | 213.9 |
| 145° | 328.8 | 339.8 | 328.8 | 317.8 | 315.1 | 296.4 | 271.4 | 259.0 | 250.3 | 233.0 | 220.0 |
| 147.5° | 314.5 | 323.5 | 314.5 | 305.4 | 303.1 | 288.4 | 268.8 | 259.0 | 252.1 | 238.2 | 227.8 |
| 150° | 305.5 | 312.9 | 305.5 | 298.2 | 296.3 | 283.8 | 267.3 | 259.0 | 252.9 | 240.9 | 231.8 |
| 152.5° | 297.7 | 303.3 | 297.7 | 292.2 | 290.8 | 280.2 | 266.1 | 259.0 | 253.5 | 242.7 | 234.5 |
| 155° | 289.0 | 292.6 | 289.0 | 285.3 | 284.3 | 275.9 | 264.6 | 259.0 | 254.8 | 246.5 | 240.3 |
| 157.5° | 281.9 | 284.5 | 281.9 | 279.4 | 278.7 | 272.1 | 263.3 | 259.0 | 256.1 | 250.3 | 246.1 |
| 160° | 277.8 | 279.2 | 277.8 | 276.2 | 275.9 | 270.2 | 262.7 | 259.0 | 256.7 | 252.1 | 248.7 |
| 162.5° | 275.0 | 276.4 | 275.0 | 273.6 | 273.2 | 268.5 | 262.1 | 259.0 | 257.3 | 254.0 | 251.5 |
| 165° | 271.0 | 272.6 | 271.0 | 269.5 | 269.1 | 265.7 | 261.2 | 259.0 | 258.2 | 256.8 | 255.6 |
| 167.5° | 268.2 | 268.8 | 268.2 | 267.6 | 267.4 | 265.2 | 262.2 | 260.7 | 260.1 | 258.8 | 257.9 |
| 170° | 267.4 | 267.4 | 267.4 | 267.4 | 267.4 | 265.2 | 262.2 | 260.7 | 260.7 | 260.6 | 260.5 |
| 172.5° | 265.3 | 264.8 | 265.3 | 265.8 | 266.0 | 264.2 | 261.9 | 260.7 | 260.7 | 260.7 | 260.7 |
| 175° | 264.1 | 264.1 | 264.1 | 264.1 | 264.1 | 263.0 | 261.4 | 260.7 | 261.0 | 261.8 | 262.3 |
| 177.5° | 263.0 | 262.3 | 263.0 | 263.6 | 263.8 | 262.9 | 261.7 | 261.1 | 261.4 | 261.9 | 262.3 |
| 180° | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 |



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 |
| 2.5° | 614.0 | 610.6 | 610.6 | 604.9 | 602.6 | 600.9 | 598.1 | 589.4 | 587.1 | 584.8 | 588.3 |
| 5° | 619.2 | 612.9 | 608.3 | 598.1 | 589.4 | 586.0 | 575.1 | 554.5 | 540.7 | 530.4 | 524.7 |
| 7.5° | 620.4 | 612.3 | 603.8 | 587.7 | 567.1 | 557.9 | 524.7 | 486.9 | 476.6 | 467.5 | 461.7 |
| 10° | 619.2 | 610.0 | 598.1 | 574.0 | 525.3 | 509.2 | 476.0 | 451.4 | 445.1 | 443.4 | 445.1 |
| 12.5° | 615.2 | 606.6 | 590.0 | 549.9 | 481.7 | 470.9 | 451.4 | 437.1 | 435.9 | 438.8 | 454.2 |
| 15° | 608.3 | 600.3 | 580.8 | 517.9 | 457.7 | 449.7 | 435.9 | 430.7 | 437.1 | 457.1 | 503.5 |
| 17.5° | 601.5 | 592.3 | 568.3 | 486.3 | 439.4 | 433.6 | 423.9 | 434.2 | 469.7 | 496.7 | 512.1 |
| 20° | 592.3 | 581.4 | 553.9 | 463.4 | 426.2 | 421.0 | 416.5 | 462.9 | 489.8 | 499.5 | 508.1 |
| 22.5° | 581.4 | 570.0 | 534.4 | 447.4 | 412.5 | 408.4 | 411.3 | 478.9 | 489.8 | 496.7 | 504.1 |
| 25° | 567.1 | 557.3 | 511.5 | 434.8 | 401.5 | 397.0 | 407.8 | 477.2 | 483.4 | 485.1 | 500.1 |
| 27.5° | 553.9 | 541.3 | 487.5 | 423.3 | 388.4 | 386.7 | 410.8 | 469.7 | 474.3 | 476.0 | 492.1 |
| 30° | 537.8 | 519.0 | 460.5 | 411.3 | 374.6 | 374.0 | 411.3 | 460.5 | 459.4 | 464.0 | 480.0 |
| 32.5° | 521.3 | 485.7 | 430.2 | 396.4 | 361.5 | 360.9 | 407.2 | 446.8 | 445.7 | 451.9 | 464.0 |
| 35° | 505.8 | 459.9 | 389.0 | 379.2 | 344.8 | 345.4 | 397.5 | 430.7 | 431.3 | 437.1 | 444.5 |
| 37.5° | 489.8 | 437.7 | 343.7 | 360.3 | 328.8 | 328.8 | 384.4 | 415.9 | 414.8 | 416.5 | 426.7 |
| 40° | 470.9 | 402.7 | 303.6 | 335.7 | 313.9 | 312.2 | 368.3 | 399.8 | 395.8 | 395.3 | 409.6 |
| 42.5° | 450.8 | 364.3 | 273.8 | 303.0 | 296.7 | 294.4 | 348.8 | 380.3 | 372.9 | 374.6 | 393.0 |
| 45° | 429.0 | 354.0 | 250.9 | 256.1 | 279.0 | 277.2 | 327.6 | 358.1 | 352.8 | 357.5 | 376.3 |
| 47.5° | 407.2 | 333.4 | 243.4 | 212.5 | 260.1 | 259.5 | 304.2 | 336.3 | 333.4 | 338.0 | 358.1 |
| 50° | 377.5 | 310.5 | 242.9 | 182.2 | 238.9 | 241.1 | 276.1 | 315.1 | 315.1 | 319.1 | 340.3 |
| 52.5° | 339.1 | 282.4 | 220.5 | 164.9 | 214.2 | 221.1 | 251.5 | 296.7 | 297.8 | 301.8 | 320.8 |
| 55° | 304.2 | 253.2 | 204.5 | 151.8 | 185.0 | 200.0 | 227.4 | 277.8 | 280.1 | 284.1 | 301.3 |
| 57.5° | 272.1 | 210.8 | 201.1 | 136.3 | 158.1 | 172.4 | 206.2 | 259.5 | 260.6 | 264.1 | 280.7 |
| 60° | 237.7 | 152.4 | 184.5 | 119.7 | 134.6 | 145.5 | 186.7 | 237.7 | 241.7 | 244.0 | 258.4 |
| 62.5° | 198.8 | 110.5 | 167.2 | 108.3 | 123.2 | 125.5 | 170.7 | 217.1 | 222.2 | 224.0 | 232.6 |
| 65° | 141.5 | 92.8 | 142.0 | 98.6 | 111.1 | 111.7 | 153.5 | 195.9 | 200.5 | 203.4 | 209.7 |
| 67.5° | 95.7 | 75.6 | 108.3 | 89.3 | 102.0 | 102.5 | 136.9 | 171.3 | 177.6 | 179.9 | 183.9 |
| 70° | 66.5 | 50.4 | 80.2 | 79.6 | 91.6 | 92.8 | 119.2 | 149.0 | 154.7 | 156.4 | 158.7 |
| 72.5° | 48.7 | 40.7 | 66.5 | 71.6 | 80.8 | 81.9 | 100.8 | 123.8 | 129.5 | 131.2 | 132.3 |
| 75° | 37.2 | 43.0 | 53.8 | 62.4 | 68.8 | 69.3 | 82.5 | 100.8 | 104.8 | 106.0 | 106.5 |
| 77.5° | 29.8 | 40.1 | 39.5 | 50.4 | 56.1 | 55.0 | 64.7 | 77.9 | 81.3 | 81.3 | 81.3 |
| 80° | 22.4 | 31.5 | 29.8 | 36.1 | 41.3 | 40.1 | 46.4 | 55.6 | 56.7 | 57.8 | 57.3 |
| 82.5° | 16.6 | 20.1 | 20.1 | 22.9 | 27.5 | 26.4 | 30.9 | 36.1 | 36.1 | 36.1 | 37.2 |
| 85° | 10.3 | 11.4 | 9.1 | 12.0 | 15.5 | 14.9 | 17.2 | 19.5 | 20.1 | 20.1 | 18.9 |
| 87.5° | 6.3 | 5.1 | 2.9 | 4.6 | 6.8 | 6.8 | 8.0 | 8.6 | 8.0 | 8.0 | 8.0 |
| 90° | 4.6 | 3.2 | 1.8 | 3.2 | 4.6 | 5.0 | 7.8 | 11.5 | 13.4 | 11.9 | 8.9 |
| 92.5° | 31.0 | 19.0 | 7.0 | 19.0 | 31.0 | 34.0 | 47.7 | 66.1 | 75.3 | 66.0 | 47.4 |
| 95° | 60.7 | 38.8 | 16.9 | 38.8 | 60.7 | 66.2 | 117.5 | 185.9 | 220.2 | 196.4 | 149.0 |
| 97.5° | 67.8 | 48.5 | 29.2 | 48.5 | 67.8 | 72.7 | 158.3 | 272.5 | 329.5 | 314.6 | 284.6 |
| 100° | 73.8 | 56.2 | 38.7 | 56.2 | 73.8 | 78.2 | 173.1 | 299.8 | 363.2 | 364.3 | 366.5 |
| 102.5° | 79.5 | 63.2 | 46.8 | 63.2 | 79.5 | 83.6 | 180.0 | 308.4 | 372.7 | 391.8 | 430.0 |
| 105° | 88.2 | 74.4 | 60.6 | 74.4 | 88.2 | 91.7 | 185.0 | 309.5 | 371.6 | 414.4 | 500.0 |
| 107.5° | 100.4 | 87.5 | 74.7 | 87.5 | 100.4 | 103.7 | 185.9 | 295.7 | 350.5 | 410.2 | 529.6 |
| 110° | 107.4 | 95.7 | 84.1 | 95.7 | 107.4 | 110.4 | 184.6 | 283.5 | 332.9 | 399.6 | 533.1 |



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 115.6 | 104.5 | 93.4 | 104.5 | 115.6 | 118.5 | 184.6 | 272.8 | 316.9 | 385.2 | 521.8 |
| 115° | 128.0 | 117.8 | 107.5 | 117.8 | 128.0 | 130.6 | 186.3 | 260.5 | 297.7 | 363.4 | 495.1 |
| 117.5° | 140.1 | 130.8 | 121.5 | 130.8 | 140.1 | 142.4 | 189.8 | 252.9 | 284.5 | 343.9 | 462.6 |
| 120° | 147.1 | 138.4 | 129.6 | 138.4 | 147.1 | 149.3 | 192.6 | 250.3 | 279.2 | 333.5 | 442.0 |
| 122.5° | 155.2 | 146.4 | 137.5 | 146.4 | 155.2 | 157.4 | 196.6 | 249.0 | 275.1 | 324.0 | 421.8 |
| 125° | 165.7 | 157.7 | 149.6 | 157.7 | 165.7 | 167.8 | 202.1 | 247.9 | 270.8 | 312.3 | 395.3 |
| 127.5° | 175.8 | 167.7 | 159.5 | 167.7 | 175.8 | 177.8 | 207.6 | 247.3 | 267.1 | 302.7 | 373.9 |
| 130° | 182.3 | 173.6 | 164.8 | 173.6 | 182.3 | 184.5 | 211.6 | 247.6 | 265.6 | 297.4 | 360.9 |
| 132.5° | 187.7 | 179.0 | 170.2 | 179.0 | 187.7 | 190.0 | 214.8 | 247.9 | 264.4 | 292.8 | 349.6 |
| 135° | 194.3 | 186.3 | 178.3 | 186.3 | 194.3 | 196.3 | 218.3 | 247.6 | 262.3 | 286.0 | 333.6 |
| 137.5° | 202.4 | 194.5 | 186.6 | 194.5 | 202.4 | 204.4 | 223.6 | 249.1 | 262.0 | 282.0 | 322.3 |
| 140° | 208.1 | 200.7 | 193.5 | 200.7 | 208.1 | 209.9 | 226.8 | 249.4 | 260.7 | 278.1 | 312.9 |
| 142.5° | 212.2 | 205.5 | 198.8 | 205.5 | 212.2 | 213.9 | 229.5 | 250.3 | 260.7 | 276.0 | 306.5 |
| 145° | 218.6 | 212.7 | 206.9 | 212.7 | 218.6 | 220.0 | 233.0 | 250.3 | 259.0 | 271.4 | 296.4 |
| 147.5° | 226.3 | 220.7 | 215.0 | 220.7 | 226.3 | 227.8 | 238.2 | 252.1 | 259.0 | 268.8 | 288.4 |
| 150° | 230.5 | 225.3 | 220.2 | 225.3 | 230.5 | 231.8 | 240.9 | 252.9 | 259.0 | 267.3 | 283.8 |
| 152.5° | 233.5 | 229.6 | 225.7 | 229.6 | 233.5 | 234.5 | 242.7 | 253.5 | 259.0 | 266.1 | 280.2 |
| 155° | 239.6 | 236.7 | 233.8 | 236.7 | 239.6 | 240.3 | 246.5 | 254.8 | 259.0 | 264.6 | 275.9 |
| 157.5° | 245.4 | 242.6 | 239.8 | 242.6 | 245.4 | 246.1 | 250.3 | 256.1 | 259.0 | 263.3 | 272.1 |
| 160° | 248.2 | 246.0 | 243.9 | 246.0 | 248.2 | 248.7 | 252.1 | 256.7 | 259.0 | 262.7 | 270.2 |
| 162.5° | 251.1 | 249.5 | 247.9 | 249.5 | 251.1 | 251.5 | 254.0 | 257.3 | 259.0 | 262.1 | 268.5 |
| 165° | 255.3 | 253.8 | 252.3 | 253.8 | 255.3 | 255.6 | 256.8 | 258.2 | 259.0 | 261.2 | 265.7 |
| 167.5° | 257.7 | 257.0 | 256.3 | 257.0 | 257.7 | 257.9 | 258.8 | 260.1 | 260.7 | 262.2 | 265.2 |
| 170° | 260.3 | 259.7 | 259.0 | 259.7 | 260.3 | 260.5 | 260.6 | 260.7 | 260.7 | 262.2 | 265.2 |
| 172.5° | 260.7 | 260.5 | 260.3 | 260.5 | 260.7 | 260.7 | 260.7 | 260.7 | 260.7 | 261.9 | 264.2 |
| 175° | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 261.8 | 261.0 | 260.7 | 261.4 | 263.0 |
| 177.5° | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 261.9 | 261.4 | 261.1 | 261.7 | 262.9 |
| 180° | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 |



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 0° | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 |
| 2.5° | 584.3 | 582.6 | 584.8 | 578.6 | 584.8 | 582.6 | 584.3 | 588.3 | 584.8 | 587.1 | 589.4 |
| 5° | 512.6 | 509.8 | 500.7 | 493.2 | 500.7 | 509.8 | 512.6 | 524.7 | 530.4 | 540.7 | 554.5 |
| 7.5° | 458.2 | 455.9 | 453.7 | 449.1 | 453.7 | 455.9 | 458.2 | 461.7 | 467.5 | 476.6 | 486.9 |
| 10° | 446.2 | 446.8 | 450.2 | 449.7 | 450.2 | 446.8 | 446.2 | 445.1 | 443.4 | 445.1 | 451.4 |
| 12.5° | 477.2 | 482.3 | 501.2 | 500.1 | 501.2 | 482.3 | 477.2 | 454.2 | 438.8 | 435.9 | 437.1 |
| 15° | 512.6 | 514.4 | 518.4 | 519.0 | 518.4 | 514.4 | 512.6 | 503.5 | 457.1 | 437.1 | 430.7 |
| 17.5° | 516.1 | 516.7 | 519.6 | 519.6 | 519.6 | 516.7 | 516.1 | 512.1 | 496.7 | 469.7 | 434.2 |
| 20° | 513.2 | 514.4 | 520.2 | 521.3 | 520.2 | 514.4 | 513.2 | 508.1 | 499.5 | 489.8 | 462.9 |
| 22.5° | 512.1 | 514.4 | 519.0 | 518.4 | 519.0 | 514.4 | 512.1 | 504.1 | 496.7 | 489.8 | 478.9 |
| 25° | 506.4 | 506.4 | 506.9 | 507.5 | 506.9 | 506.4 | 506.4 | 500.1 | 485.1 | 483.4 | 477.2 |
| 27.5° | 494.4 | 495.5 | 498.9 | 498.4 | 498.9 | 495.5 | 494.4 | 492.1 | 476.0 | 474.3 | 469.7 |
| 30° | 483.4 | 482.3 | 479.4 | 477.2 | 479.4 | 482.3 | 483.4 | 480.0 | 464.0 | 459.4 | 460.5 |
| 32.5° | 465.2 | 462.3 | 459.4 | 457.7 | 459.4 | 462.3 | 465.2 | 464.0 | 451.9 | 445.7 | 446.8 |
| 35° | 443.4 | 444.0 | 443.4 | 441.7 | 443.4 | 444.0 | 443.4 | 444.5 | 437.1 | 431.3 | 430.7 |
| 37.5° | 427.9 | 429.0 | 428.4 | 426.2 | 428.4 | 429.0 | 427.9 | 426.7 | 416.5 | 414.8 | 415.9 |
| 40° | 411.9 | 412.5 | 411.9 | 410.2 | 411.9 | 412.5 | 411.9 | 409.6 | 395.3 | 395.8 | 399.8 |
| 42.5° | 396.4 | 395.8 | 394.1 | 393.0 | 394.1 | 395.8 | 396.4 | 393.0 | 374.6 | 372.9 | 380.3 |
| 45° | 378.6 | 379.2 | 375.7 | 374.0 | 375.7 | 379.2 | 378.6 | 376.3 | 357.5 | 352.8 | 358.1 |
| 47.5° | 360.9 | 360.9 | 358.1 | 356.3 | 358.1 | 360.9 | 360.9 | 358.1 | 338.0 | 333.4 | 336.3 |
| 50° | 342.0 | 341.4 | 337.4 | 336.8 | 337.4 | 341.4 | 342.0 | 340.3 | 319.1 | 315.1 | 315.1 |
| 52.5° | 320.2 | 320.2 | 320.8 | 321.9 | 320.8 | 320.2 | 320.2 | 320.8 | 301.8 | 297.8 | 296.7 |
| 55° | 301.3 | 301.8 | 305.9 | 307.1 | 305.9 | 301.8 | 301.3 | 301.3 | 284.1 | 280.1 | 277.8 |
| 57.5° | 281.9 | 281.9 | 284.7 | 284.7 | 284.7 | 281.9 | 281.9 | 280.7 | 264.1 | 260.6 | 259.5 |
| 60° | 259.5 | 260.6 | 262.9 | 262.4 | 262.9 | 260.6 | 259.5 | 258.4 | 244.0 | 241.7 | 237.7 |
| 62.5° | 236.0 | 237.2 | 237.7 | 236.6 | 237.7 | 237.2 | 236.0 | 232.6 | 224.0 | 222.2 | 217.1 |
| 65° | 211.4 | 212.5 | 213.1 | 211.9 | 213.1 | 212.5 | 211.4 | 209.7 | 203.4 | 200.5 | 195.9 |
| 67.5° | 186.2 | 185.6 | 185.0 | 187.3 | 185.0 | 185.6 | 186.2 | 183.9 | 179.9 | 177.6 | 171.3 |
| 70° | 160.4 | 160.4 | 159.8 | 161.0 | 159.8 | 160.4 | 160.4 | 158.7 | 156.4 | 154.7 | 149.0 |
| 72.5° | 132.9 | 132.3 | 134.6 | 132.9 | 134.6 | 132.3 | 132.9 | 132.3 | 131.2 | 129.5 | 123.8 |
| 75° | 106.0 | 107.1 | 106.0 | 107.7 | 106.0 | 107.1 | 106.0 | 106.5 | 106.0 | 104.8 | 100.8 |
| 77.5° | 80.8 | 81.9 | 80.8 | 80.8 | 80.8 | 81.9 | 80.8 | 81.3 | 81.3 | 81.3 | 77.9 |
| 80° | 57.3 | 56.7 | 56.7 | 56.1 | 56.7 | 56.7 | 57.3 | 57.3 | 57.8 | 56.7 | 55.6 |
| 82.5° | 36.6 | 36.1 | 36.1 | 37.2 | 36.1 | 36.1 | 36.6 | 37.2 | 36.1 | 36.1 | 36.1 |
| 85° | 20.1 | 20.6 | 19.5 | 19.5 | 19.5 | 20.6 | 20.1 | 18.9 | 20.1 | 20.1 | 19.5 |
| 87.5° | 7.4 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 7.4 | 8.0 | 8.0 | 8.0 | 8.6 |
| 90° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 8.9 | 11.9 | 13.4 | 11.5 |
| 92.5° | 33.5 | 32.1 | 26.8 | 21.4 | 26.8 | 32.1 | 33.5 | 47.4 | 66.0 | 75.3 | 66.1 |
| 95° | 113.5 | 109.5 | 93.4 | 77.3 | 93.4 | 109.5 | 113.5 | 149.0 | 196.4 | 220.2 | 185.9 |
| 97.5° | 262.1 | 254.4 | 223.8 | 193.1 | 223.8 | 254.4 | 262.1 | 284.6 | 314.6 | 329.5 | 272.5 |
| 100° | 368.1 | 359.0 | 322.4 | 285.9 | 322.4 | 359.0 | 368.1 | 366.5 | 364.3 | 363.2 | 299.8 |
| 102.5° | 458.6 | 450.7 | 419.5 | 388.2 | 419.5 | 450.7 | 458.6 | 430.0 | 391.8 | 372.7 | 308.4 |
| 105° | 564.2 | 560.1 | 543.2 | 526.4 | 543.2 | 560.1 | 564.2 | 500.0 | 414.4 | 371.6 | 309.5 |
| 107.5° | 619.2 | 620.2 | 624.2 | 628.3 | 624.2 | 620.2 | 619.2 | 529.6 | 410.2 | 350.5 | 295.7 |
| 110° | 633.3 | 637.6 | 655.1 | 672.6 | 655.1 | 637.6 | 633.3 | 533.1 | 399.6 | 332.9 | 283.5 |



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 112.5° | 624.3 | 631.0 | 657.9 | 684.8 | 657.9 | 631.0 | 624.3 | 521.8 | 385.2 | 316.9 | 272.8 |
| 115° | 593.8 | 603.1 | 640.4 | 677.8 | 640.4 | 603.1 | 593.8 | 495.1 | 363.4 | 297.7 | 260.5 |
| 117.5° | 551.7 | 562.0 | 603.4 | 644.9 | 603.4 | 562.0 | 551.7 | 462.6 | 343.9 | 284.5 | 252.9 |
| 120° | 523.4 | 533.5 | 573.6 | 613.9 | 573.6 | 533.5 | 523.4 | 442.0 | 333.5 | 279.2 | 250.3 |
| 122.5° | 495.1 | 505.0 | 544.7 | 584.3 | 544.7 | 505.0 | 495.1 | 421.8 | 324.0 | 275.1 | 249.0 |
| 125° | 457.6 | 466.7 | 503.2 | 539.7 | 503.2 | 466.7 | 457.6 | 395.3 | 312.3 | 270.8 | 247.9 |
| 127.5° | 427.4 | 435.1 | 465.9 | 496.8 | 465.9 | 435.1 | 427.4 | 373.9 | 302.7 | 267.1 | 247.3 |
| 130° | 408.4 | 415.5 | 444.1 | 472.5 | 444.1 | 415.5 | 408.4 | 360.9 | 297.4 | 265.6 | 247.6 |
| 132.5° | 392.2 | 398.6 | 424.1 | 449.6 | 424.1 | 398.6 | 392.2 | 349.6 | 292.8 | 264.4 | 247.9 |
| 135° | 369.3 | 374.8 | 396.8 | 418.8 | 396.8 | 374.8 | 369.3 | 333.6 | 286.0 | 262.3 | 247.6 |
| 137.5° | 352.4 | 356.9 | 374.9 | 392.9 | 374.9 | 356.9 | 352.4 | 322.3 | 282.0 | 262.0 | 249.1 |
| 140° | 338.9 | 343.1 | 359.9 | 376.8 | 359.9 | 343.1 | 338.9 | 312.9 | 278.1 | 260.7 | 249.4 |
| 142.5° | 329.4 | 332.9 | 347.5 | 362.0 | 347.5 | 332.9 | 329.4 | 306.5 | 276.0 | 260.7 | 250.3 |
| 145° | 315.1 | 317.8 | 328.8 | 339.8 | 328.8 | 317.8 | 315.1 | 296.4 | 271.4 | 259.0 | 250.3 |
| 147.5° | 303.1 | 305.4 | 314.5 | 323.5 | 314.5 | 305.4 | 303.1 | 288.4 | 268.8 | 259.0 | 252.1 |
| 150° | 296.3 | 298.2 | 305.5 | 312.9 | 305.5 | 298.2 | 296.3 | 283.8 | 267.3 | 259.0 | 252.9 |
| 152.5° | 290.8 | 292.2 | 297.7 | 303.3 | 297.7 | 292.2 | 290.8 | 280.2 | 266.1 | 259.0 | 253.5 |
| 155° | 284.3 | 285.3 | 289.0 | 292.6 | 289.0 | 285.3 | 284.3 | 275.9 | 264.6 | 259.0 | 254.8 |
| 157.5° | 278.7 | 279.4 | 281.9 | 284.5 | 281.9 | 279.4 | 278.7 | 272.1 | 263.3 | 259.0 | 256.1 |
| 160° | 275.9 | 276.2 | 277.8 | 279.2 | 277.8 | 276.2 | 275.9 | 270.2 | 262.7 | 259.0 | 256.7 |
| 162.5° | 273.2 | 273.6 | 275.0 | 276.4 | 275.0 | 273.6 | 273.2 | 268.5 | 262.1 | 259.0 | 257.3 |
| 165° | 269.1 | 269.5 | 271.0 | 272.6 | 271.0 | 269.5 | 269.1 | 265.7 | 261.2 | 259.0 | 258.2 |
| 167.5° | 267.4 | 267.6 | 268.2 | 268.8 | 268.2 | 267.6 | 267.4 | 265.2 | 262.2 | 260.7 | 260.1 |
| 170° | 267.4 | 267.4 | 267.4 | 267.4 | 267.4 | 267.4 | 267.4 | 265.2 | 262.2 | 260.7 | 260.7 |
| 172.5° | 266.0 | 265.8 | 265.3 | 264.8 | 265.3 | 265.8 | 266.0 | 264.2 | 261.9 | 260.7 | 260.7 |
| 175° | 264.1 | 264.1 | 264.1 | 264.1 | 264.1 | 264.1 | 264.1 | 263.0 | 261.4 | 260.7 | 261.0 |
| 177.5° | 263.8 | 263.6 | 263.0 | 262.3 | 263.0 | 263.6 | 263.8 | 262.9 | 261.7 | 261.1 | 261.4 |
| 180° | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 |



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 0° | 605.5 | 605.5 | 605.5 | 605.5 | 605.5 |
| 2.5° | 598.1 | 600.9 | 602.6 | 604.9 | 610.6 |
| 5° | 575.1 | 586.0 | 589.4 | 598.1 | 608.3 |
| 7.5° | 524.7 | 557.9 | 567.1 | 587.7 | 603.8 |
| 10° | 476.0 | 509.2 | 525.3 | 574.0 | 598.1 |
| 12.5° | 451.4 | 470.9 | 481.7 | 549.9 | 590.0 |
| 15° | 435.9 | 449.7 | 457.7 | 517.9 | 580.8 |
| 17.5° | 423.9 | 433.6 | 439.4 | 486.3 | 568.3 |
| 20° | 416.5 | 421.0 | 426.2 | 463.4 | 553.9 |
| 22.5° | 411.3 | 408.4 | 412.5 | 447.4 | 534.4 |
| 25° | 407.8 | 397.0 | 401.5 | 434.8 | 511.5 |
| 27.5° | 410.8 | 386.7 | 388.4 | 423.3 | 487.5 |
| 30° | 411.3 | 374.0 | 374.6 | 411.3 | 460.5 |
| 32.5° | 407.2 | 360.9 | 361.5 | 396.4 | 430.2 |
| 35° | 397.5 | 345.4 | 344.8 | 379.2 | 389.0 |
| 37.5° | 384.4 | 328.8 | 328.8 | 360.3 | 343.7 |
| 40° | 368.3 | 312.2 | 313.9 | 335.7 | 303.6 |
| 42.5° | 348.8 | 294.4 | 296.7 | 303.0 | 273.8 |
| 45° | 327.6 | 277.2 | 279.0 | 256.1 | 250.9 |
| 47.5° | 304.2 | 259.5 | 260.1 | 212.5 | 243.4 |
| 50° | 276.1 | 241.1 | 238.9 | 182.2 | 242.9 |
| 52.5° | 251.5 | 221.1 | 214.2 | 164.9 | 220.5 |
| 55° | 227.4 | 200.0 | 185.0 | 151.8 | 204.5 |
| 57.5° | 206.2 | 172.4 | 158.1 | 136.3 | 201.1 |
| 60° | 186.7 | 145.5 | 134.6 | 119.7 | 184.5 |
| 62.5° | 170.7 | 125.5 | 123.2 | 108.3 | 167.2 |
| 65° | 153.5 | 111.7 | 111.1 | 98.6 | 142.0 |
| 67.5° | 136.9 | 102.5 | 102.0 | 89.3 | 108.3 |
| 70° | 119.2 | 92.8 | 91.6 | 79.6 | 80.2 |
| 72.5° | 100.8 | 81.9 | 80.8 | 71.6 | 66.5 |
| 75° | 82.5 | 69.3 | 68.8 | 62.4 | 53.8 |
| 77.5° | 64.7 | 55.0 | 56.1 | 50.4 | 39.5 |
| 80° | 46.4 | 40.1 | 41.3 | 36.1 | 29.8 |
| 82.5° | 30.9 | 26.4 | 27.5 | 22.9 | 20.1 |
| 85° | 17.2 | 14.9 | 15.5 | 12.0 | 9.1 |
| 87.5° | 8.0 | 6.8 | 6.8 | 4.6 | 2.9 |
| 90° | 7.8 | 5.0 | 4.6 | 3.2 | 1.8 |
| 92.5° | 47.7 | 34.0 | 31.0 | 19.0 | 7.0 |
| 95° | 117.5 | 66.2 | 60.7 | 38.8 | 16.9 |
| 97.5° | 158.3 | 72.7 | 67.8 | 48.5 | 29.2 |
| 100° | 173.1 | 78.2 | 73.8 | 56.2 | 38.7 |
| 102.5° | 180.0 | 83.6 | 79.5 | 63.2 | 46.8 |
| 105° | 185.0 | 91.7 | 88.2 | 74.4 | 60.6 |
| 107.5° | 185.9 | 103.7 | 100.4 | 87.5 | 74.7 |
| 110° | 184.6 | 110.4 | 107.4 | 95.7 | 84.1 |



TEST NUMBER: P934231

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 184.6 | 118.5 | 115.6 | 104.5 | 93.4 |
| 115° | 186.3 | 130.6 | 128.0 | 117.8 | 107.5 |
| 117.5° | 189.8 | 142.4 | 140.1 | 130.8 | 121.5 |
| 120° | 192.6 | 149.3 | 147.1 | 138.4 | 129.6 |
| 122.5° | 196.6 | 157.4 | 155.2 | 146.4 | 137.5 |
| 125° | 202.1 | 167.8 | 165.7 | 157.7 | 149.6 |
| 127.5° | 207.6 | 177.8 | 175.8 | 167.7 | 159.5 |
| 130° | 211.6 | 184.5 | 182.3 | 173.6 | 164.8 |
| 132.5° | 214.8 | 190.0 | 187.7 | 179.0 | 170.2 |
| 135° | 218.3 | 196.3 | 194.3 | 186.3 | 178.3 |
| 137.5° | 223.6 | 204.4 | 202.4 | 194.5 | 186.6 |
| 140° | 226.8 | 209.9 | 208.1 | 200.7 | 193.5 |
| 142.5° | 229.5 | 213.9 | 212.2 | 205.5 | 198.8 |
| 145° | 233.0 | 220.0 | 218.6 | 212.7 | 206.9 |
| 147.5° | 238.2 | 227.8 | 226.3 | 220.7 | 215.0 |
| 150° | 240.9 | 231.8 | 230.5 | 225.3 | 220.2 |
| 152.5° | 242.7 | 234.5 | 233.5 | 229.6 | 225.7 |
| 155° | 246.5 | 240.3 | 239.6 | 236.7 | 233.8 |
| 157.5° | 250.3 | 246.1 | 245.4 | 242.6 | 239.8 |
| 160° | 252.1 | 248.7 | 248.2 | 246.0 | 243.9 |
| 162.5° | 254.0 | 251.5 | 251.1 | 249.5 | 247.9 |
| 165° | 256.8 | 255.6 | 255.3 | 253.8 | 252.3 |
| 167.5° | 258.8 | 257.9 | 257.7 | 257.0 | 256.3 |
| 170° | 260.6 | 260.5 | 260.3 | 259.7 | 259.0 |
| 172.5° | 260.7 | 260.7 | 260.7 | 260.5 | 260.3 |
| 175° | 261.8 | 262.3 | 262.3 | 262.3 | 262.3 |
| 177.5° | 261.9 | 262.3 | 262.3 | 262.3 | 262.3 |
| 180° | 262.3 | 262.3 | 262.3 | 262.3 | 262.3 |



TEST NUMBER: P934231
 CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-2700K

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 | 10.60 | 11.45 | 11.58 | 12.44 | 13.73 | 13.40 | 14.25 | 14.38 | 15.23 | 16.53 |
| | 3H | 11.08 | 11.84 | 12.06 | 12.83 | 14.15 | 14.74 | 15.49 | 15.72 | 16.49 | 17.81 |
| | 4H | 11.27 | 11.99 | 12.27 | 12.99 | 14.32 | 15.17 | 15.89 | 16.17 | 16.89 | 18.22 |
| | 6H | 11.39 | 12.05 | 12.40 | 13.05 | 14.39 | 15.45 | 16.11 | 16.46 | 17.11 | 18.46 |
| | 8H | 11.39 | 12.02 | 12.40 | 13.04 | 14.38 | 15.52 | 16.15 | 16.53 | 17.17 | 18.51 |
| | 12H | 11.36 | 11.96 | 12.38 | 12.97 | 14.33 | 15.55 | 16.15 | 16.57 | 17.16 | 18.53 |
| 4H | 2H | 11.63 | 12.34 | 12.63 | 13.34 | 14.67 | 13.81 | 14.53 | 14.82 | 15.53 | 16.86 |
| | 3H | 12.65 | 13.25 | 13.67 | 14.28 | 15.62 | 15.31 | 15.90 | 16.32 | 16.93 | 18.27 |
| | 4H | 12.93 | 13.47 | 13.95 | 14.49 | 15.86 | 15.83 | 16.37 | 16.85 | 17.39 | 18.76 |
| | 6H | 13.05 | 13.52 | 14.08 | 14.57 | 15.93 | 16.18 | 16.65 | 17.21 | 17.70 | 19.06 |
| | 8H | 13.06 | 13.50 | 14.09 | 14.53 | 15.91 | 16.28 | 16.72 | 17.32 | 17.76 | 19.14 |
| | 12H | 13.02 | 13.42 | 14.08 | 14.47 | 15.85 | 16.33 | 16.73 | 17.39 | 17.78 | 19.17 |
| 8H | 4H | 13.37 | 13.81 | 14.41 | 14.85 | 16.23 | 15.95 | 16.39 | 16.98 | 17.43 | 18.80 |
| | 6H | 13.64 | 14.00 | 14.69 | 15.08 | 16.45 | 16.38 | 16.74 | 17.43 | 17.82 | 19.19 |
| | 8H | 13.68 | 14.00 | 14.74 | 15.06 | 16.45 | 16.52 | 16.84 | 17.59 | 17.91 | 19.30 |
| | 12H | 13.66 | 13.94 | 14.73 | 15.00 | 16.44 | 16.62 | 16.90 | 17.68 | 17.96 | 19.39 |
| 12H | 4H | 13.38 | 13.77 | 14.43 | 14.83 | 16.21 | 15.91 | 16.31 | 16.97 | 17.36 | 18.75 |
| | 6H | 13.69 | 14.01 | 14.76 | 15.08 | 16.47 | 16.37 | 16.69 | 17.44 | 17.76 | 19.15 |
| | 8H | 13.76 | 14.04 | 14.83 | 15.10 | 16.54 | 16.53 | 16.81 | 17.60 | 17.87 | 19.31 |