

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: P935040

Luminaire Tested: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935040
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

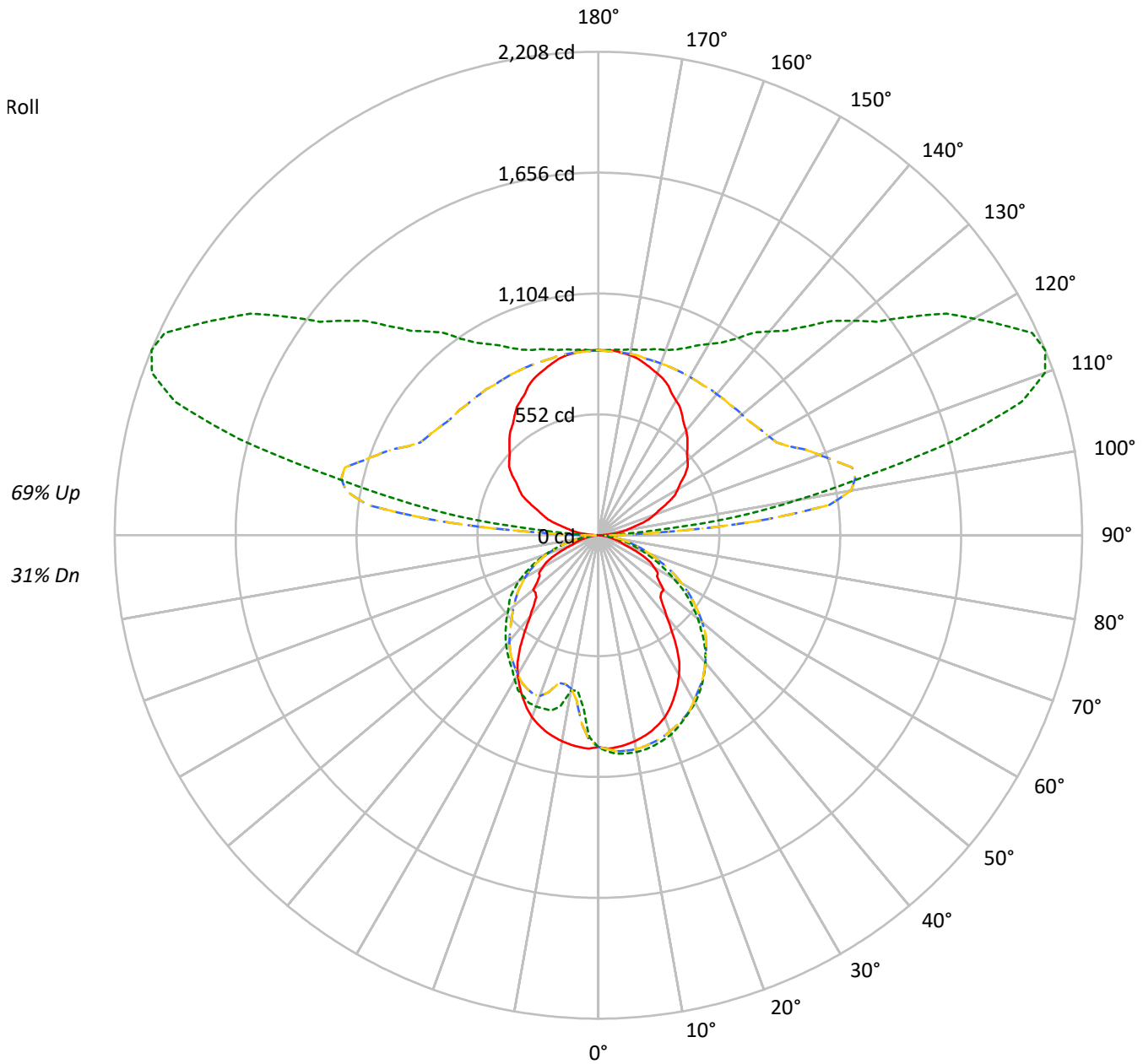
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7993.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 61.8
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: P935040
CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1 | 94 | 89 | 86 | 82 | 84 | 81 | 77 | 75 | 64 | 62 | 60 | 49 | 47 | 46 | 35 | 34 | 33 | 27 |
| 2 | 85 | 78 | 72 | 67 | 76 | 70 | 65 | 61 | 56 | 53 | 50 | 43 | 40 | 38 | 30 | 29 | 28 | 22 |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 49 | 45 | 42 | 38 | 35 | 32 | 27 | 25 | 24 | 19 |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 34 | 30 | 28 | 24 | 22 | 20 | 16 |
| 5 | 65 | 54 | 46 | 40 | 58 | 49 | 42 | 37 | 39 | 34 | 30 | 30 | 27 | 24 | 22 | 19 | 18 | 14 |
| 6 | 60 | 48 | 40 | 35 | 54 | 44 | 37 | 32 | 35 | 30 | 26 | 27 | 24 | 21 | 20 | 17 | 15 | 12 |
| 7 | 55 | 43 | 36 | 30 | 49 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 18 | 18 | 15 | 14 | 11 |
| 8 | 51 | 39 | 32 | 27 | 46 | 36 | 29 | 24 | 29 | 24 | 20 | 22 | 19 | 16 | 16 | 14 | 12 | 10 |
| 9 | 47 | 36 | 28 | 23 | 43 | 32 | 26 | 22 | 26 | 21 | 18 | 20 | 17 | 15 | 15 | 13 | 11 | 9 |
| 10 | 44 | 33 | 26 | 21 | 40 | 30 | 23 | 19 | 24 | 19 | 16 | 19 | 15 | 13 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 5983 | 5983 | 5983 | 5983 |
| 5° | 6026 | 6040 | 6026 | 4749 |
| 10° | 5983 | 5950 | 5983 | 4253 |
| 15° | 5916 | 5821 | 5916 | 4860 |
| 20° | 5790 | 5668 | 5790 | 4871 |
| 25° | 5534 | 5446 | 5534 | 4768 |
| 30° | 5205 | 5261 | 5205 | 4541 |
| 35° | 4639 | 5026 | 4639 | 4292 |
| 40° | 3863 | 4751 | 3863 | 4104 |
| 45° | 3449 | 4429 | 3449 | 3887 |
| 50° | 3661 | 4045 | 3661 | 3670 |
| 55° | 3442 | 3631 | 3442 | 3545 |
| 60° | 3543 | 3084 | 3543 | 3246 |
| 65° | 3208 | 2549 | 3208 | 2849 |
| 70° | 2216 | 2031 | 2216 | 2389 |
| 75° | 1937 | 1501 | 1937 | 1798 |
| 80° | 1549 | 992 | 1549 | 1081 |
| 85° | 870 | 526 | 870 | 447 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5290 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.3 | 1.1 |
| 10°-20° | 247.9 | 3.1 |
| 20°-30° | 383.2 | 4.8 |
| 30°-40° | 457.5 | 5.7 |
| 40°-50° | 460.1 | 5.8 |
| 50°-60° | 400.4 | 5.0 |
| 60°-70° | 283.9 | 3.6 |
| 70°-80° | 150.2 | 1.9 |
| 80°-90° | 40.6 | 0.5 |
| 90°-100° | 412.2 | 5.2 |
| 100°-110° | 1083.7 | 13.6 |
| 110°-120° | 1123.7 | 14.1 |
| 120°-130° | 901.3 | 11.3 |
| 130°-140° | 707.2 | 8.8 |
| 140°-150° | 542.8 | 6.8 |
| 150°-160° | 390.9 | 4.9 |
| 160°-170° | 239.2 | 3.0 |
| 170°-180° | 80.8 | 1.0 |
| 0°-30° | 718.4 | 9.0 |
| 0°-40° | 1175.9 | 14.7 |
| 0°-60° | 2036.4 | 25.5 |
| 0°-90° | 2511.1 | 31.4 |
| 90°-120° | 2619.6 | 32.8 |
| 90°-150° | 4771.0 | 59.7 |
| 90°-180° | 5482.0 | 68.6 |
| 0°-180° | 7993.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|------|------|------|------|------|
| 0° | 967 | 967 | 967 | 967 | 967 | |
| 5° | 972 | 1002 | 972 | 788 | 972 | 92 |
| 15° | 928 | 993 | 928 | 829 | 928 | 261 |
| 25° | 817 | 926 | 817 | 811 | 817 | 375 |
| 35° | 621 | 826 | 621 | 706 | 621 | 384 |
| 45° | 401 | 681 | 401 | 598 | 401 | 321 |
| 55° | 327 | 502 | 327 | 490 | 327 | 300 |
| 65° | 227 | 303 | 227 | 339 | 227 | 217 |
| 75° | 86 | 144 | 86 | 172 | 86 | 90 |
| 85° | 15 | 37 | 15 | 31 | 15 | 20 |
| 90° | 6 | 22 | 6 | 22 | 6 | 5 |
| 95° | 54 | 249 | 54 | 249 | 54 | 61 |
| 105° | 195 | 1697 | 195 | 1697 | 195 | 207 |
| 115° | 347 | 2185 | 347 | 2185 | 347 | 343 |
| 125° | 482 | 1740 | 482 | 1740 | 482 | 428 |
| 135° | 575 | 1350 | 575 | 1350 | 575 | 445 |
| 145° | 667 | 1095 | 667 | 1095 | 667 | 418 |
| 155° | 754 | 943 | 754 | 943 | 754 | 346 |
| 165° | 813 | 878 | 813 | 878 | 813 | 230 |
| 175° | 846 | 851 | 846 | 851 | 846 | 80 |
| 180° | 846 | 846 | 846 | 846 | 846 | |



TEST NUMBER: P935040

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 |
| 2.5° | 975.5 | 975.5 | 981.0 | 982.8 | 982.8 | 980.0 | 977.3 | 980.0 | 988.3 | 991.0 | 990.1 |
| 5° | 971.8 | 979.1 | 989.2 | 991.0 | 992.9 | 992.0 | 990.1 | 992.0 | 1001.1 | 1003.0 | 1003.9 |
| 7.5° | 964.5 | 978.2 | 991.0 | 993.8 | 996.5 | 993.8 | 992.9 | 994.7 | 1003.9 | 1005.7 | 1005.7 |
| 10° | 955.3 | 974.6 | 989.2 | 991.0 | 993.8 | 991.0 | 991.0 | 994.7 | 1003.9 | 1005.7 | 1006.6 |
| 12.5° | 942.6 | 969.0 | 982.8 | 984.6 | 988.3 | 987.4 | 986.4 | 990.1 | 999.2 | 1001.1 | 1001.1 |
| 15° | 927.9 | 959.0 | 971.8 | 973.7 | 980.0 | 978.2 | 978.2 | 981.9 | 992.0 | 994.7 | 993.8 |
| 17.5° | 907.7 | 946.2 | 960.8 | 963.6 | 968.1 | 967.2 | 968.1 | 971.8 | 981.0 | 982.8 | 983.7 |
| 20° | 884.9 | 928.8 | 946.2 | 948.9 | 953.5 | 953.5 | 953.5 | 958.1 | 967.2 | 970.9 | 970.9 |
| 22.5° | 853.8 | 910.5 | 928.8 | 930.6 | 936.1 | 936.1 | 937.9 | 944.4 | 952.6 | 953.5 | 953.5 |
| 25° | 817.1 | 890.4 | 905.9 | 911.5 | 916.9 | 919.6 | 922.4 | 926.1 | 928.8 | 927.9 | 928.8 |
| 27.5° | 778.7 | 864.7 | 884.9 | 888.5 | 895.9 | 898.6 | 902.3 | 903.2 | 904.1 | 906.8 | 905.0 |
| 30° | 735.7 | 829.0 | 859.2 | 862.9 | 874.8 | 876.6 | 873.0 | 874.8 | 879.3 | 881.3 | 883.1 |
| 32.5° | 687.2 | 776.0 | 832.7 | 841.0 | 852.0 | 846.4 | 845.5 | 848.2 | 855.6 | 855.6 | 857.4 |
| 35° | 621.4 | 734.8 | 808.0 | 815.3 | 823.6 | 817.1 | 820.9 | 821.8 | 826.3 | 829.0 | 828.1 |
| 37.5° | 549.1 | 699.1 | 782.4 | 787.8 | 794.3 | 786.0 | 791.6 | 794.3 | 797.9 | 796.1 | 796.1 |
| 40° | 485.0 | 643.3 | 752.2 | 755.8 | 761.4 | 754.9 | 760.5 | 762.3 | 764.1 | 762.3 | 761.4 |
| 42.5° | 437.4 | 582.0 | 720.2 | 724.7 | 721.1 | 725.6 | 727.5 | 731.2 | 728.4 | 724.7 | 724.7 |
| 45° | 400.8 | 565.5 | 685.4 | 690.9 | 685.4 | 692.7 | 695.4 | 695.4 | 687.2 | 685.4 | 684.5 |
| 47.5° | 388.9 | 532.6 | 650.7 | 650.7 | 647.8 | 657.0 | 661.6 | 655.2 | 646.9 | 644.2 | 644.2 |
| 50° | 388.0 | 495.9 | 603.0 | 599.4 | 612.2 | 623.2 | 618.6 | 612.2 | 605.8 | 595.7 | 595.7 |
| 52.5° | 352.3 | 451.1 | 541.7 | 555.4 | 575.6 | 582.0 | 574.7 | 568.3 | 557.2 | 552.7 | 549.1 |
| 55° | 326.7 | 404.4 | 485.9 | 513.4 | 534.4 | 542.6 | 529.0 | 522.5 | 506.0 | 503.3 | 501.5 |
| 57.5° | 321.2 | 336.7 | 434.6 | 469.5 | 495.0 | 494.1 | 485.9 | 474.0 | 460.3 | 457.5 | 456.6 |
| 60° | 294.6 | 243.4 | 379.8 | 421.0 | 447.5 | 444.7 | 437.4 | 426.4 | 413.6 | 411.8 | 410.0 |
| 62.5° | 267.2 | 176.7 | 317.6 | 364.2 | 401.7 | 400.8 | 394.4 | 378.0 | 368.8 | 364.2 | 360.6 |
| 65° | 227.0 | 148.3 | 226.0 | 302.9 | 356.9 | 358.7 | 345.0 | 333.1 | 323.0 | 317.6 | 316.6 |
| 67.5° | 172.9 | 120.8 | 152.8 | 252.6 | 313.9 | 312.0 | 294.6 | 289.2 | 276.3 | 273.6 | 268.2 |
| 70° | 128.1 | 80.5 | 106.2 | 204.9 | 271.8 | 267.2 | 253.5 | 247.1 | 235.1 | 228.8 | 225.1 |
| 72.5° | 106.2 | 64.9 | 77.8 | 159.2 | 228.8 | 223.3 | 211.4 | 204.0 | 194.0 | 188.5 | 184.8 |
| 75° | 86.1 | 68.6 | 59.5 | 118.1 | 185.7 | 182.1 | 171.1 | 163.8 | 155.5 | 148.3 | 149.2 |
| 77.5° | 63.1 | 64.0 | 47.6 | 87.0 | 147.4 | 141.8 | 135.4 | 126.3 | 122.6 | 115.3 | 115.3 |
| 80° | 47.6 | 50.3 | 35.7 | 59.5 | 106.2 | 106.2 | 100.7 | 94.2 | 87.9 | 84.2 | 84.2 |
| 82.5° | 32.0 | 32.0 | 26.6 | 37.5 | 72.3 | 69.6 | 65.9 | 64.0 | 60.4 | 58.6 | 58.6 |
| 85° | 14.6 | 18.3 | 16.5 | 22.8 | 39.4 | 41.2 | 41.2 | 39.4 | 38.5 | 36.6 | 37.5 |
| 87.5° | 4.5 | 8.3 | 10.1 | 12.8 | 20.1 | 21.0 | 21.9 | 21.9 | 21.9 | 22.8 | 22.8 |
| 90° | 5.6 | 10.2 | 14.7 | 15.9 | 25.0 | 37.1 | 43.1 | 38.3 | 28.7 | 21.6 | 21.6 |
| 92.5° | 22.7 | 61.3 | 99.9 | 109.5 | 154.0 | 213.2 | 242.9 | 212.9 | 152.8 | 107.8 | 103.5 |
| 95° | 54.5 | 125.1 | 195.8 | 213.4 | 379.0 | 599.6 | 710.0 | 633.6 | 480.7 | 366.0 | 353.0 |
| 97.5° | 94.2 | 156.5 | 218.9 | 234.4 | 510.4 | 878.4 | 1062.5 | 1014.2 | 917.6 | 845.1 | 820.3 |
| 100° | 124.9 | 181.4 | 237.9 | 252.0 | 558.2 | 966.6 | 1170.8 | 1174.3 | 1181.4 | 1186.7 | 1157.2 |
| 102.5° | 151.0 | 203.8 | 256.4 | 269.6 | 580.3 | 994.4 | 1201.4 | 1263.0 | 1386.1 | 1478.4 | 1453.2 |
| 105° | 195.2 | 239.9 | 284.5 | 295.7 | 596.5 | 997.6 | 1198.1 | 1336.1 | 1612.0 | 1818.9 | 1805.4 |
| 107.5° | 240.6 | 282.3 | 323.9 | 334.3 | 599.5 | 953.1 | 1130.0 | 1322.4 | 1707.3 | 1996.0 | 1999.3 |
| 110° | 271.3 | 308.8 | 346.5 | 355.8 | 595.0 | 913.8 | 1073.2 | 1288.3 | 1718.7 | 2041.4 | 2055.5 |



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CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 301.4 | 337.2 | 373.0 | 382.0 | 595.2 | 879.4 | 1021.5 | 1241.7 | 1682.2 | 2012.5 | 2034.1 |
| 115° | 346.8 | 379.8 | 412.8 | 421.1 | 600.6 | 840.0 | 959.7 | 1171.8 | 1596.1 | 1914.3 | 1944.4 |
| 117.5° | 391.6 | 421.6 | 451.6 | 459.1 | 611.7 | 815.3 | 917.1 | 1108.6 | 1491.4 | 1778.6 | 1812.0 |
| 120° | 417.7 | 446.0 | 474.2 | 481.3 | 620.9 | 807.0 | 900.1 | 1075.0 | 1424.9 | 1687.3 | 1719.7 |
| 122.5° | 443.3 | 471.7 | 500.3 | 507.4 | 633.9 | 802.7 | 887.1 | 1044.6 | 1359.6 | 1595.9 | 1627.9 |
| 125° | 482.4 | 508.4 | 534.4 | 540.9 | 651.6 | 799.1 | 872.9 | 1006.7 | 1274.3 | 1475.1 | 1504.5 |
| 127.5° | 514.2 | 540.4 | 566.7 | 573.3 | 669.1 | 797.0 | 861.0 | 975.9 | 1205.6 | 1378.0 | 1402.8 |
| 130° | 531.2 | 559.5 | 587.7 | 594.8 | 682.0 | 798.3 | 856.4 | 958.7 | 1163.2 | 1316.7 | 1339.6 |
| 132.5° | 548.8 | 577.1 | 605.3 | 612.4 | 692.4 | 799.1 | 852.4 | 944.0 | 1127.1 | 1264.5 | 1285.0 |
| 135° | 574.9 | 600.6 | 626.4 | 632.8 | 703.8 | 798.3 | 845.6 | 922.3 | 1075.6 | 1190.7 | 1208.5 |
| 137.5° | 601.5 | 627.0 | 652.6 | 658.9 | 720.8 | 803.3 | 844.5 | 909.4 | 1039.0 | 1136.2 | 1150.7 |
| 140° | 623.7 | 647.2 | 670.7 | 676.5 | 731.2 | 804.0 | 840.5 | 896.5 | 1008.5 | 1092.5 | 1106.0 |
| 142.5° | 640.7 | 662.5 | 684.1 | 689.6 | 739.9 | 806.9 | 840.5 | 889.7 | 988.0 | 1061.8 | 1073.5 |
| 145° | 666.9 | 685.8 | 704.7 | 709.4 | 751.3 | 807.0 | 834.9 | 875.1 | 955.6 | 1015.9 | 1024.7 |
| 147.5° | 693.0 | 711.3 | 729.7 | 734.3 | 767.8 | 812.5 | 834.9 | 866.5 | 929.8 | 977.3 | 984.6 |
| 150° | 710.0 | 726.6 | 743.3 | 747.4 | 776.6 | 815.4 | 834.9 | 861.6 | 915.0 | 955.1 | 961.0 |
| 152.5° | 727.6 | 740.3 | 752.8 | 756.0 | 782.3 | 817.3 | 834.9 | 857.7 | 903.4 | 937.6 | 942.0 |
| 155° | 753.7 | 763.0 | 772.3 | 774.6 | 794.7 | 821.5 | 834.9 | 853.1 | 889.4 | 916.6 | 919.6 |
| 157.5° | 773.0 | 782.1 | 791.1 | 793.4 | 807.2 | 825.7 | 834.9 | 849.0 | 877.3 | 898.4 | 900.5 |
| 160° | 786.0 | 793.1 | 800.2 | 801.9 | 812.9 | 827.6 | 834.9 | 847.0 | 871.2 | 889.4 | 890.5 |
| 162.5° | 799.1 | 804.4 | 809.7 | 811.0 | 818.9 | 829.6 | 834.9 | 845.1 | 865.5 | 880.8 | 881.9 |
| 165° | 813.3 | 818.0 | 822.9 | 824.0 | 827.7 | 832.5 | 834.9 | 842.1 | 856.8 | 867.8 | 869.0 |
| 167.5° | 826.3 | 828.6 | 830.9 | 831.4 | 834.4 | 838.5 | 840.5 | 845.3 | 854.9 | 862.1 | 862.6 |
| 170° | 834.9 | 837.1 | 839.4 | 840.0 | 840.1 | 840.4 | 840.5 | 845.3 | 854.9 | 862.1 | 862.1 |
| 172.5° | 839.4 | 839.9 | 840.4 | 840.5 | 840.5 | 840.5 | 840.5 | 844.3 | 851.9 | 857.5 | 857.1 |
| 175° | 845.6 | 845.6 | 845.6 | 845.6 | 843.9 | 841.6 | 840.5 | 842.9 | 847.7 | 851.3 | 851.3 |
| 177.5° | 845.6 | 845.6 | 845.6 | 845.6 | 844.3 | 842.6 | 841.7 | 843.6 | 847.3 | 850.1 | 849.6 |
| 180° | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 |



TEST NUMBER: P935040

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 0° | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 |
| 2.5° | 992.0 | 989.2 | 992.0 | 990.1 | 991.0 | 988.3 | 980.0 | 977.3 | 980.0 | 982.8 | 982.8 |
| 5° | 1003.9 | 1002.0 | 1003.9 | 1003.9 | 1003.0 | 1001.1 | 992.0 | 990.1 | 992.0 | 992.9 | 991.0 |
| 7.5° | 1007.5 | 1004.8 | 1007.5 | 1005.7 | 1005.7 | 1003.9 | 994.7 | 992.9 | 993.8 | 996.5 | 993.8 |
| 10° | 1007.5 | 1004.8 | 1007.5 | 1006.6 | 1005.7 | 1003.9 | 994.7 | 991.0 | 991.0 | 993.8 | 991.0 |
| 12.5° | 1003.0 | 1001.1 | 1003.0 | 1001.1 | 1001.1 | 999.2 | 990.1 | 986.4 | 987.4 | 988.3 | 984.6 |
| 15° | 995.6 | 992.9 | 995.6 | 993.8 | 994.7 | 992.0 | 981.9 | 978.2 | 978.2 | 980.0 | 973.7 |
| 17.5° | 984.6 | 981.0 | 984.6 | 983.7 | 982.8 | 981.0 | 971.8 | 968.1 | 967.2 | 968.1 | 963.6 |
| 20° | 971.8 | 969.0 | 971.8 | 970.9 | 970.9 | 967.2 | 958.1 | 953.5 | 953.5 | 953.5 | 948.9 |
| 22.5° | 951.7 | 948.9 | 951.7 | 953.5 | 953.5 | 952.6 | 944.4 | 937.9 | 936.1 | 936.1 | 930.6 |
| 25° | 928.8 | 926.1 | 928.8 | 928.8 | 927.9 | 928.8 | 926.1 | 922.4 | 919.6 | 916.9 | 911.5 |
| 27.5° | 906.8 | 905.0 | 906.8 | 905.0 | 906.8 | 904.1 | 903.2 | 902.3 | 898.6 | 895.9 | 888.5 |
| 30° | 884.9 | 883.1 | 884.9 | 883.1 | 881.3 | 879.3 | 874.8 | 873.0 | 876.6 | 874.8 | 862.9 |
| 32.5° | 857.4 | 855.6 | 857.4 | 857.4 | 855.6 | 855.6 | 848.2 | 845.5 | 846.4 | 852.0 | 841.0 |
| 35° | 829.0 | 826.3 | 829.0 | 828.1 | 829.0 | 826.3 | 821.8 | 820.9 | 817.1 | 823.6 | 815.3 |
| 37.5° | 796.1 | 793.4 | 796.1 | 796.1 | 796.1 | 797.9 | 794.3 | 791.6 | 786.0 | 794.3 | 787.8 |
| 40° | 762.3 | 758.6 | 762.3 | 761.4 | 762.3 | 764.1 | 762.3 | 760.5 | 754.9 | 761.4 | 755.8 |
| 42.5° | 723.8 | 722.9 | 723.8 | 724.7 | 724.7 | 728.4 | 731.2 | 727.5 | 725.6 | 721.1 | 724.7 |
| 45° | 682.7 | 680.8 | 682.7 | 684.5 | 685.4 | 687.2 | 695.4 | 695.4 | 692.7 | 685.4 | 690.9 |
| 47.5° | 638.7 | 634.1 | 638.7 | 644.2 | 644.2 | 646.9 | 655.2 | 661.6 | 657.0 | 647.8 | 650.7 |
| 50° | 592.1 | 593.0 | 592.1 | 595.7 | 595.7 | 605.8 | 612.2 | 618.6 | 623.2 | 612.2 | 599.4 |
| 52.5° | 546.3 | 545.4 | 546.3 | 549.1 | 552.7 | 557.2 | 568.3 | 574.7 | 582.0 | 575.6 | 555.4 |
| 55° | 500.6 | 502.4 | 500.6 | 501.5 | 503.3 | 506.0 | 522.5 | 529.0 | 542.6 | 534.4 | 513.4 |
| 57.5° | 454.8 | 452.1 | 454.8 | 456.6 | 457.5 | 460.3 | 474.0 | 485.9 | 494.1 | 495.0 | 469.5 |
| 60° | 401.7 | 398.1 | 401.7 | 410.0 | 411.8 | 413.6 | 426.4 | 437.4 | 444.7 | 447.5 | 421.0 |
| 62.5° | 355.0 | 348.7 | 355.0 | 360.6 | 364.2 | 368.8 | 378.0 | 394.4 | 400.8 | 401.7 | 364.2 |
| 65° | 305.6 | 302.9 | 305.6 | 316.6 | 317.6 | 323.0 | 333.1 | 345.0 | 358.7 | 356.9 | 302.9 |
| 67.5° | 260.8 | 260.8 | 260.8 | 268.2 | 273.6 | 276.3 | 289.2 | 294.6 | 312.0 | 313.9 | 252.6 |
| 70° | 219.6 | 218.7 | 219.6 | 225.1 | 228.8 | 235.1 | 247.1 | 253.5 | 267.2 | 271.8 | 204.9 |
| 72.5° | 180.3 | 179.4 | 180.3 | 184.8 | 188.5 | 194.0 | 204.0 | 211.4 | 223.3 | 228.8 | 159.2 |
| 75° | 145.5 | 143.6 | 145.5 | 149.2 | 148.3 | 155.5 | 163.8 | 171.1 | 182.1 | 185.7 | 118.1 |
| 77.5° | 111.6 | 111.6 | 111.6 | 115.3 | 115.3 | 122.6 | 126.3 | 135.4 | 141.8 | 147.4 | 87.0 |
| 80° | 83.2 | 82.3 | 83.2 | 84.2 | 84.2 | 87.9 | 94.2 | 100.7 | 106.2 | 106.2 | 59.5 |
| 82.5° | 58.6 | 56.8 | 58.6 | 58.6 | 58.6 | 60.4 | 64.0 | 65.9 | 69.6 | 72.3 | 37.5 |
| 85° | 36.6 | 36.6 | 36.6 | 37.5 | 36.6 | 38.5 | 39.4 | 41.2 | 41.2 | 39.4 | 22.8 |
| 87.5° | 23.8 | 22.8 | 23.8 | 22.8 | 22.8 | 21.9 | 21.9 | 21.9 | 21.0 | 20.1 | 12.8 |
| 90° | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 28.7 | 38.3 | 43.1 | 37.1 | 25.0 | 15.9 |
| 92.5° | 86.3 | 69.2 | 86.3 | 103.5 | 107.8 | 152.8 | 212.9 | 242.9 | 213.2 | 154.0 | 109.5 |
| 95° | 301.1 | 249.1 | 301.1 | 353.0 | 366.0 | 480.7 | 633.6 | 710.0 | 599.6 | 379.0 | 213.4 |
| 97.5° | 721.4 | 622.6 | 721.4 | 820.3 | 845.1 | 917.6 | 1014.2 | 1062.5 | 878.4 | 510.4 | 234.4 |
| 100° | 1039.4 | 921.6 | 1039.4 | 1157.2 | 1186.7 | 1181.4 | 1174.3 | 1170.8 | 966.6 | 558.2 | 252.0 |
| 102.5° | 1352.3 | 1251.4 | 1352.3 | 1453.2 | 1478.4 | 1386.1 | 1263.0 | 1201.4 | 994.4 | 580.3 | 269.6 |
| 105° | 1751.1 | 1696.9 | 1751.1 | 1805.4 | 1818.9 | 1612.0 | 1336.1 | 1198.1 | 997.6 | 596.5 | 295.7 |
| 107.5° | 2012.5 | 2025.6 | 2012.5 | 1999.3 | 1996.0 | 1707.3 | 1322.4 | 1130.0 | 953.1 | 599.5 | 334.3 |
| 110° | 2112.1 | 2168.6 | 2112.1 | 2055.5 | 2041.4 | 1718.7 | 1288.3 | 1073.2 | 913.8 | 595.0 | 355.8 |



TEST NUMBER: P935040

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 112.5° | 2120.9 | 2207.7 | 2120.9 | 2034.1 | 2012.5 | 1682.2 | 1241.7 | 1021.5 | 879.4 | 595.2 | 382.0 |
| 115° | 2064.7 | 2185.0 | 2064.7 | 1944.4 | 1914.3 | 1596.1 | 1171.8 | 959.7 | 840.0 | 600.6 | 421.1 |
| 117.5° | 1945.4 | 2078.9 | 1945.4 | 1812.0 | 1778.6 | 1491.4 | 1108.6 | 917.1 | 815.3 | 611.7 | 459.1 |
| 120° | 1849.4 | 1979.0 | 1849.4 | 1719.7 | 1687.3 | 1424.9 | 1075.0 | 900.1 | 807.0 | 620.9 | 481.3 |
| 122.5° | 1755.8 | 1883.7 | 1755.8 | 1627.9 | 1595.9 | 1359.6 | 1044.6 | 887.1 | 802.7 | 633.9 | 507.4 |
| 125° | 1622.2 | 1740.0 | 1622.2 | 1504.5 | 1475.1 | 1274.3 | 1006.7 | 872.9 | 799.1 | 651.6 | 540.9 |
| 127.5° | 1502.3 | 1601.6 | 1502.3 | 1402.8 | 1378.0 | 1205.6 | 975.9 | 861.0 | 797.0 | 669.1 | 573.3 |
| 130° | 1431.5 | 1523.3 | 1431.5 | 1339.6 | 1316.7 | 1163.2 | 958.7 | 856.4 | 798.3 | 682.0 | 594.8 |
| 132.5° | 1367.3 | 1449.5 | 1367.3 | 1285.0 | 1264.5 | 1127.1 | 944.0 | 852.4 | 799.1 | 692.4 | 612.4 |
| 135° | 1279.3 | 1350.2 | 1279.3 | 1208.5 | 1190.7 | 1075.6 | 922.3 | 845.6 | 798.3 | 703.8 | 632.8 |
| 137.5° | 1208.7 | 1266.8 | 1208.7 | 1150.7 | 1136.2 | 1039.0 | 909.4 | 844.5 | 803.3 | 720.8 | 658.9 |
| 140° | 1160.3 | 1214.5 | 1160.3 | 1106.0 | 1092.5 | 1008.5 | 896.5 | 840.5 | 804.0 | 731.2 | 676.5 |
| 142.5° | 1120.2 | 1166.9 | 1120.2 | 1073.5 | 1061.8 | 988.0 | 889.7 | 840.5 | 806.9 | 739.9 | 689.6 |
| 145° | 1060.1 | 1095.4 | 1060.1 | 1024.7 | 1015.9 | 955.6 | 875.1 | 834.9 | 807.0 | 751.3 | 709.4 |
| 147.5° | 1013.9 | 1043.2 | 1013.9 | 984.6 | 977.3 | 929.8 | 866.5 | 834.9 | 812.5 | 767.8 | 734.3 |
| 150° | 984.8 | 1008.5 | 984.8 | 961.0 | 955.1 | 915.0 | 861.6 | 834.9 | 815.4 | 776.6 | 747.4 |
| 152.5° | 959.9 | 977.9 | 959.9 | 942.0 | 937.6 | 903.4 | 857.7 | 834.9 | 817.3 | 782.3 | 756.0 |
| 155° | 931.4 | 943.2 | 931.4 | 919.6 | 916.6 | 889.4 | 853.1 | 834.9 | 821.5 | 794.7 | 774.6 |
| 157.5° | 908.8 | 917.1 | 908.8 | 900.5 | 898.4 | 877.3 | 849.0 | 834.9 | 825.7 | 807.2 | 793.4 |
| 160° | 895.4 | 900.1 | 895.4 | 890.5 | 889.4 | 871.2 | 847.0 | 834.9 | 827.6 | 812.9 | 801.9 |
| 162.5° | 886.4 | 891.0 | 886.4 | 881.9 | 880.8 | 865.5 | 845.1 | 834.9 | 829.6 | 818.9 | 811.0 |
| 165° | 873.8 | 878.5 | 873.8 | 869.0 | 867.8 | 856.8 | 842.1 | 834.9 | 832.5 | 827.7 | 824.0 |
| 167.5° | 864.6 | 866.6 | 864.6 | 862.6 | 862.1 | 854.9 | 845.3 | 840.5 | 838.5 | 834.4 | 831.4 |
| 170° | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 854.9 | 845.3 | 840.5 | 840.4 | 840.1 | 840.0 |
| 172.5° | 855.3 | 853.6 | 855.3 | 857.1 | 857.5 | 851.9 | 844.3 | 840.5 | 840.5 | 840.5 | 840.5 |
| 175° | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 847.7 | 842.9 | 840.5 | 841.6 | 843.9 | 845.6 |
| 177.5° | 847.6 | 845.6 | 847.6 | 849.6 | 850.1 | 847.3 | 843.6 | 841.7 | 842.6 | 844.3 | 845.6 |
| 180° | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 |



TEST NUMBER: P935040

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|
| 0° | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 |
| 2.5° | 981.0 | 975.5 | 975.5 | 966.3 | 962.7 | 959.9 | 955.3 | 941.7 | 937.9 | 934.3 | 939.7 |
| 5° | 989.2 | 979.1 | 971.8 | 955.3 | 941.7 | 936.1 | 918.7 | 885.8 | 863.8 | 847.3 | 838.2 |
| 7.5° | 991.0 | 978.2 | 964.5 | 938.8 | 905.9 | 891.3 | 838.2 | 777.8 | 761.4 | 746.7 | 737.5 |
| 10° | 989.2 | 974.6 | 955.3 | 916.9 | 839.1 | 813.5 | 760.5 | 721.1 | 711.0 | 708.2 | 711.0 |
| 12.5° | 982.8 | 969.0 | 942.6 | 878.4 | 769.6 | 752.2 | 721.1 | 698.2 | 696.3 | 701.0 | 725.6 |
| 15° | 971.8 | 959.0 | 927.9 | 827.2 | 731.2 | 718.3 | 696.3 | 688.1 | 698.2 | 730.3 | 804.4 |
| 17.5° | 960.8 | 946.2 | 907.7 | 776.9 | 701.9 | 692.7 | 677.1 | 693.6 | 750.4 | 793.4 | 818.0 |
| 20° | 946.2 | 928.8 | 884.9 | 740.3 | 680.8 | 672.6 | 665.2 | 739.4 | 782.4 | 797.9 | 811.7 |
| 22.5° | 928.8 | 910.5 | 853.8 | 714.7 | 658.9 | 652.5 | 657.0 | 765.0 | 782.4 | 793.4 | 805.3 |
| 25° | 905.9 | 890.4 | 817.1 | 694.5 | 641.5 | 634.1 | 651.6 | 762.3 | 772.3 | 775.1 | 798.8 |
| 27.5° | 884.9 | 864.7 | 778.7 | 676.2 | 620.5 | 617.6 | 656.1 | 750.4 | 757.7 | 760.5 | 786.0 |
| 30° | 859.2 | 829.0 | 735.7 | 657.0 | 598.5 | 597.5 | 657.0 | 735.7 | 733.9 | 741.2 | 766.8 |
| 32.5° | 832.7 | 776.0 | 687.2 | 633.2 | 577.4 | 576.5 | 650.7 | 713.8 | 712.0 | 722.0 | 741.2 |
| 35° | 808.0 | 734.8 | 621.4 | 605.8 | 550.9 | 551.8 | 635.0 | 688.1 | 689.1 | 698.2 | 710.1 |
| 37.5° | 782.4 | 699.1 | 549.1 | 575.6 | 525.2 | 525.2 | 614.0 | 664.3 | 662.5 | 665.2 | 681.8 |
| 40° | 752.2 | 643.3 | 485.0 | 536.2 | 501.5 | 498.8 | 588.4 | 638.7 | 632.3 | 631.4 | 654.3 |
| 42.5° | 720.2 | 582.0 | 437.4 | 484.1 | 474.0 | 470.4 | 557.2 | 607.6 | 595.7 | 598.5 | 627.7 |
| 45° | 685.4 | 565.5 | 400.8 | 409.1 | 445.6 | 442.9 | 523.4 | 571.9 | 563.7 | 571.0 | 601.2 |
| 47.5° | 650.7 | 532.6 | 388.9 | 339.5 | 415.4 | 414.5 | 485.9 | 537.1 | 532.6 | 539.9 | 571.9 |
| 50° | 603.0 | 495.9 | 388.0 | 291.0 | 381.6 | 385.2 | 441.1 | 503.3 | 503.3 | 509.7 | 543.6 |
| 52.5° | 541.7 | 451.1 | 352.3 | 263.5 | 342.2 | 353.2 | 401.7 | 474.0 | 475.8 | 482.3 | 512.4 |
| 55° | 485.9 | 404.4 | 326.7 | 242.5 | 295.5 | 319.4 | 363.3 | 443.8 | 447.5 | 453.9 | 481.3 |
| 57.5° | 434.6 | 336.7 | 321.2 | 217.8 | 252.6 | 275.4 | 329.5 | 414.5 | 416.3 | 421.9 | 448.4 |
| 60° | 379.8 | 243.4 | 294.6 | 191.2 | 215.0 | 232.4 | 298.3 | 379.8 | 386.1 | 389.8 | 412.7 |
| 62.5° | 317.6 | 176.7 | 267.2 | 172.9 | 196.8 | 200.4 | 272.7 | 346.8 | 355.0 | 357.8 | 371.5 |
| 65° | 226.0 | 148.3 | 227.0 | 157.4 | 177.6 | 178.5 | 245.2 | 312.9 | 320.3 | 324.8 | 334.9 |
| 67.5° | 152.8 | 120.8 | 172.9 | 142.7 | 162.9 | 163.8 | 218.7 | 273.6 | 283.7 | 287.4 | 293.7 |
| 70° | 106.2 | 80.5 | 128.1 | 127.2 | 146.5 | 148.3 | 190.3 | 238.0 | 247.1 | 249.8 | 253.5 |
| 72.5° | 77.8 | 64.9 | 106.2 | 114.3 | 129.0 | 130.9 | 161.1 | 197.7 | 206.9 | 209.6 | 211.4 |
| 75° | 59.5 | 68.6 | 86.1 | 99.8 | 109.8 | 110.7 | 131.8 | 161.1 | 167.5 | 169.3 | 170.2 |
| 77.5° | 47.6 | 64.0 | 63.1 | 80.5 | 89.7 | 87.9 | 103.4 | 124.4 | 129.9 | 129.9 | 129.9 |
| 80° | 35.7 | 50.3 | 47.6 | 57.7 | 65.9 | 64.0 | 74.1 | 88.8 | 90.6 | 92.4 | 91.5 |
| 82.5° | 26.6 | 32.0 | 32.0 | 36.6 | 43.9 | 42.1 | 49.4 | 57.7 | 57.7 | 57.7 | 59.5 |
| 85° | 16.5 | 18.3 | 14.6 | 19.2 | 24.7 | 23.8 | 27.5 | 31.1 | 32.0 | 32.0 | 30.2 |
| 87.5° | 10.1 | 8.3 | 4.5 | 7.3 | 11.0 | 11.0 | 12.8 | 13.7 | 12.8 | 12.8 | 12.8 |
| 90° | 14.7 | 10.2 | 5.6 | 10.2 | 14.7 | 15.9 | 25.0 | 37.1 | 43.1 | 38.3 | 28.7 |
| 92.5° | 99.9 | 61.3 | 22.7 | 61.3 | 99.9 | 109.5 | 154.0 | 213.2 | 242.9 | 212.9 | 152.8 |
| 95° | 195.8 | 125.1 | 54.5 | 125.1 | 195.8 | 213.4 | 379.0 | 599.6 | 710.0 | 633.6 | 480.7 |
| 97.5° | 218.9 | 156.5 | 94.2 | 156.5 | 218.9 | 234.4 | 510.4 | 878.4 | 1062.5 | 1014.2 | 917.6 |
| 100° | 237.9 | 181.4 | 124.9 | 181.4 | 237.9 | 252.0 | 558.2 | 966.6 | 1170.8 | 1174.3 | 1181.4 |
| 102.5° | 256.4 | 203.8 | 151.0 | 203.8 | 256.4 | 269.6 | 580.3 | 994.4 | 1201.4 | 1263.0 | 1386.1 |
| 105° | 284.5 | 239.9 | 195.2 | 239.9 | 284.5 | 295.7 | 596.5 | 997.6 | 1198.1 | 1336.1 | 1612.0 |
| 107.5° | 323.9 | 282.3 | 240.6 | 282.3 | 323.9 | 334.3 | 599.5 | 953.1 | 1130.0 | 1322.4 | 1707.3 |
| 110° | 346.5 | 308.8 | 271.3 | 308.8 | 346.5 | 355.8 | 595.0 | 913.8 | 1073.2 | 1288.3 | 1718.7 |



TEST NUMBER: P935040

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|
| 112.5° | 373.0 | 337.2 | 301.4 | 337.2 | 373.0 | 382.0 | 595.2 | 879.4 | 1021.5 | 1241.7 | 1682.2 |
| 115° | 412.8 | 379.8 | 346.8 | 379.8 | 412.8 | 421.1 | 600.6 | 840.0 | 959.7 | 1171.8 | 1596.1 |
| 117.5° | 451.6 | 421.6 | 391.6 | 421.6 | 451.6 | 459.1 | 611.7 | 815.3 | 917.1 | 1108.6 | 1491.4 |
| 120° | 474.2 | 446.0 | 417.7 | 446.0 | 474.2 | 481.3 | 620.9 | 807.0 | 900.1 | 1075.0 | 1424.9 |
| 122.5° | 500.3 | 471.7 | 443.3 | 471.7 | 500.3 | 507.4 | 633.9 | 802.7 | 887.1 | 1044.6 | 1359.6 |
| 125° | 534.4 | 508.4 | 482.4 | 508.4 | 534.4 | 540.9 | 651.6 | 799.1 | 872.9 | 1006.7 | 1274.3 |
| 127.5° | 566.7 | 540.4 | 514.2 | 540.4 | 566.7 | 573.3 | 669.1 | 797.0 | 861.0 | 975.9 | 1205.6 |
| 130° | 587.7 | 559.5 | 531.2 | 559.5 | 587.7 | 594.8 | 682.0 | 798.3 | 856.4 | 958.7 | 1163.2 |
| 132.5° | 605.3 | 577.1 | 548.8 | 577.1 | 605.3 | 612.4 | 692.4 | 799.1 | 852.4 | 944.0 | 1127.1 |
| 135° | 626.4 | 600.6 | 574.9 | 600.6 | 626.4 | 632.8 | 703.8 | 798.3 | 845.6 | 922.3 | 1075.6 |
| 137.5° | 652.6 | 627.0 | 601.5 | 627.0 | 652.6 | 658.9 | 720.8 | 803.3 | 844.5 | 909.4 | 1039.0 |
| 140° | 670.7 | 647.2 | 623.7 | 647.2 | 670.7 | 676.5 | 731.2 | 804.0 | 840.5 | 896.5 | 1008.5 |
| 142.5° | 684.1 | 662.5 | 640.7 | 662.5 | 684.1 | 689.6 | 739.9 | 806.9 | 840.5 | 889.7 | 988.0 |
| 145° | 704.7 | 685.8 | 666.9 | 685.8 | 704.7 | 709.4 | 751.3 | 807.0 | 834.9 | 875.1 | 955.6 |
| 147.5° | 729.7 | 711.3 | 693.0 | 711.3 | 729.7 | 734.3 | 767.8 | 812.5 | 834.9 | 866.5 | 929.8 |
| 150° | 743.3 | 726.6 | 710.0 | 726.6 | 743.3 | 747.4 | 776.6 | 815.4 | 834.9 | 861.6 | 915.0 |
| 152.5° | 752.8 | 740.3 | 727.6 | 740.3 | 752.8 | 756.0 | 782.3 | 817.3 | 834.9 | 857.7 | 903.4 |
| 155° | 772.3 | 763.0 | 753.7 | 763.0 | 772.3 | 774.6 | 794.7 | 821.5 | 834.9 | 853.1 | 889.4 |
| 157.5° | 791.1 | 782.1 | 773.0 | 782.1 | 791.1 | 793.4 | 807.2 | 825.7 | 834.9 | 849.0 | 877.3 |
| 160° | 800.2 | 793.1 | 786.0 | 793.1 | 800.2 | 801.9 | 812.9 | 827.6 | 834.9 | 847.0 | 871.2 |
| 162.5° | 809.7 | 804.4 | 799.1 | 804.4 | 809.7 | 811.0 | 818.9 | 829.6 | 834.9 | 845.1 | 865.5 |
| 165° | 822.9 | 818.0 | 813.3 | 818.0 | 822.9 | 824.0 | 827.7 | 832.5 | 834.9 | 842.1 | 856.8 |
| 167.5° | 830.9 | 828.6 | 826.3 | 828.6 | 830.9 | 831.4 | 834.4 | 838.5 | 840.5 | 845.3 | 854.9 |
| 170° | 839.4 | 837.1 | 834.9 | 837.1 | 839.4 | 840.0 | 840.1 | 840.4 | 840.5 | 845.3 | 854.9 |
| 172.5° | 840.4 | 839.9 | 839.4 | 839.9 | 840.4 | 840.5 | 840.5 | 840.5 | 840.5 | 844.3 | 851.9 |
| 175° | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 843.9 | 841.6 | 840.5 | 842.9 | 847.7 |
| 177.5° | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 844.3 | 842.6 | 841.7 | 843.6 | 847.3 |
| 180° | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 |



TEST NUMBER: P935040

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 |
| 2.5° | 933.4 | 930.6 | 934.3 | 924.2 | 934.3 | 930.6 | 933.4 | 939.7 | 934.3 | 937.9 | 941.7 |
| 5° | 819.0 | 814.4 | 799.8 | 787.8 | 799.8 | 814.4 | 819.0 | 838.2 | 847.3 | 863.8 | 885.8 |
| 7.5° | 732.1 | 728.4 | 724.7 | 717.4 | 724.7 | 728.4 | 732.1 | 737.5 | 746.7 | 761.4 | 777.8 |
| 10° | 712.9 | 713.8 | 719.2 | 718.3 | 719.2 | 713.8 | 712.9 | 711.0 | 708.2 | 711.0 | 721.1 |
| 12.5° | 762.3 | 770.5 | 800.7 | 798.8 | 800.7 | 770.5 | 762.3 | 725.6 | 701.0 | 696.3 | 698.2 |
| 15° | 819.0 | 821.8 | 828.1 | 829.0 | 828.1 | 821.8 | 819.0 | 804.4 | 730.3 | 698.2 | 688.1 |
| 17.5° | 824.5 | 825.4 | 830.0 | 830.0 | 830.0 | 825.4 | 824.5 | 818.0 | 793.4 | 750.4 | 693.6 |
| 20° | 819.9 | 821.8 | 830.9 | 832.7 | 830.9 | 821.8 | 819.9 | 811.7 | 797.9 | 782.4 | 739.4 |
| 22.5° | 818.0 | 821.8 | 829.0 | 828.1 | 829.0 | 821.8 | 818.0 | 805.3 | 793.4 | 782.4 | 765.0 |
| 25° | 808.9 | 808.9 | 809.8 | 810.8 | 809.8 | 808.9 | 808.9 | 798.8 | 775.1 | 772.3 | 762.3 |
| 27.5° | 789.7 | 791.6 | 797.0 | 796.1 | 797.0 | 791.6 | 789.7 | 786.0 | 760.5 | 757.7 | 750.4 |
| 30° | 772.3 | 770.5 | 765.9 | 762.3 | 765.9 | 770.5 | 772.3 | 766.8 | 741.2 | 733.9 | 735.7 |
| 32.5° | 743.1 | 738.4 | 733.9 | 731.2 | 733.9 | 738.4 | 743.1 | 741.2 | 722.0 | 712.0 | 713.8 |
| 35° | 708.2 | 709.2 | 708.2 | 705.5 | 708.2 | 709.2 | 708.2 | 710.1 | 698.2 | 689.1 | 688.1 |
| 37.5° | 683.6 | 685.4 | 684.5 | 680.8 | 684.5 | 685.4 | 683.6 | 681.8 | 665.2 | 662.5 | 664.3 |
| 40° | 657.9 | 658.9 | 657.9 | 655.2 | 657.9 | 658.9 | 657.9 | 654.3 | 631.4 | 632.3 | 638.7 |
| 42.5° | 633.2 | 632.3 | 629.6 | 627.7 | 629.6 | 632.3 | 633.2 | 627.7 | 598.5 | 595.7 | 607.6 |
| 45° | 604.9 | 605.8 | 600.3 | 597.5 | 600.3 | 605.8 | 604.9 | 601.2 | 571.0 | 563.7 | 571.9 |
| 47.5° | 576.5 | 576.5 | 571.9 | 569.2 | 571.9 | 576.5 | 576.5 | 571.9 | 539.9 | 532.6 | 537.1 |
| 50° | 546.3 | 545.4 | 539.0 | 538.1 | 539.0 | 545.4 | 546.3 | 543.6 | 509.7 | 503.3 | 503.3 |
| 52.5° | 511.5 | 511.5 | 512.4 | 514.3 | 512.4 | 511.5 | 511.5 | 512.4 | 482.3 | 475.8 | 474.0 |
| 55° | 481.3 | 482.3 | 488.7 | 490.5 | 488.7 | 482.3 | 481.3 | 481.3 | 453.9 | 447.5 | 443.8 |
| 57.5° | 450.2 | 450.2 | 454.8 | 454.8 | 454.8 | 450.2 | 450.2 | 448.4 | 421.9 | 416.3 | 414.5 |
| 60° | 414.5 | 416.3 | 420.0 | 419.1 | 420.0 | 416.3 | 414.5 | 412.7 | 389.8 | 386.1 | 379.8 |
| 62.5° | 377.0 | 378.9 | 379.8 | 378.0 | 379.8 | 378.9 | 377.0 | 371.5 | 357.8 | 355.0 | 346.8 |
| 65° | 337.7 | 339.5 | 340.4 | 338.6 | 340.4 | 339.5 | 337.7 | 334.9 | 324.8 | 320.3 | 312.9 |
| 67.5° | 297.4 | 296.5 | 295.5 | 299.3 | 295.5 | 296.5 | 297.4 | 293.7 | 287.4 | 283.7 | 273.6 |
| 70° | 256.2 | 256.2 | 255.3 | 257.2 | 255.3 | 256.2 | 256.2 | 253.5 | 249.8 | 247.1 | 238.0 |
| 72.5° | 212.3 | 211.4 | 215.0 | 212.3 | 215.0 | 211.4 | 212.3 | 211.4 | 209.6 | 206.9 | 197.7 |
| 75° | 169.3 | 171.1 | 169.3 | 172.0 | 169.3 | 171.1 | 169.3 | 170.2 | 169.3 | 167.5 | 161.1 |
| 77.5° | 129.0 | 130.9 | 129.0 | 129.0 | 129.0 | 130.9 | 129.0 | 129.9 | 129.9 | 129.9 | 124.4 |
| 80° | 91.5 | 90.6 | 90.6 | 89.7 | 90.6 | 90.6 | 91.5 | 91.5 | 92.4 | 90.6 | 88.8 |
| 82.5° | 58.6 | 57.7 | 57.7 | 59.5 | 57.7 | 57.7 | 58.6 | 59.5 | 57.7 | 57.7 | 57.7 |
| 85° | 32.0 | 32.9 | 31.1 | 31.1 | 31.1 | 32.9 | 32.0 | 30.2 | 32.0 | 32.0 | 31.1 |
| 87.5° | 11.9 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.9 | 12.8 | 12.8 | 12.8 | 13.7 |
| 90° | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 28.7 | 38.3 | 43.1 | 37.1 |
| 92.5° | 107.8 | 103.5 | 86.3 | 69.2 | 86.3 | 103.5 | 107.8 | 152.8 | 212.9 | 242.9 | 213.2 |
| 95° | 366.0 | 353.0 | 301.1 | 249.1 | 301.1 | 353.0 | 366.0 | 480.7 | 633.6 | 710.0 | 599.6 |
| 97.5° | 845.1 | 820.3 | 721.4 | 622.6 | 721.4 | 820.3 | 845.1 | 917.6 | 1014.2 | 1062.5 | 878.4 |
| 100° | 1186.7 | 1157.2 | 1039.4 | 921.6 | 1039.4 | 1157.2 | 1186.7 | 1181.4 | 1174.3 | 1170.8 | 966.6 |
| 102.5° | 1478.4 | 1453.2 | 1352.3 | 1251.4 | 1352.3 | 1453.2 | 1478.4 | 1386.1 | 1263.0 | 1201.4 | 994.4 |
| 105° | 1818.9 | 1805.4 | 1751.1 | 1696.9 | 1751.1 | 1805.4 | 1818.9 | 1612.0 | 1336.1 | 1198.1 | 997.6 |
| 107.5° | 1996.0 | 1999.3 | 2012.5 | 2025.6 | 2012.5 | 1999.3 | 1996.0 | 1707.3 | 1322.4 | 1130.0 | 953.1 |
| 110° | 2041.4 | 2055.5 | 2112.1 | 2168.6 | 2112.1 | 2055.5 | 2041.4 | 1718.7 | 1288.3 | 1073.2 | 913.8 |



TEST NUMBER: P935040

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 112.5° | 2012.5 | 2034.1 | 2120.9 | 2207.7 | 2120.9 | 2034.1 | 2012.5 | 1682.2 | 1241.7 | 1021.5 | 879.4 |
| 115° | 1914.3 | 1944.4 | 2064.7 | 2185.0 | 2064.7 | 1944.4 | 1914.3 | 1596.1 | 1171.8 | 959.7 | 840.0 |
| 117.5° | 1778.6 | 1812.0 | 1945.4 | 2078.9 | 1945.4 | 1812.0 | 1778.6 | 1491.4 | 1108.6 | 917.1 | 815.3 |
| 120° | 1687.3 | 1719.7 | 1849.4 | 1979.0 | 1849.4 | 1719.7 | 1687.3 | 1424.9 | 1075.0 | 900.1 | 807.0 |
| 122.5° | 1595.9 | 1627.9 | 1755.8 | 1883.7 | 1755.8 | 1627.9 | 1595.9 | 1359.6 | 1044.6 | 887.1 | 802.7 |
| 125° | 1475.1 | 1504.5 | 1622.2 | 1740.0 | 1622.2 | 1504.5 | 1475.1 | 1274.3 | 1006.7 | 872.9 | 799.1 |
| 127.5° | 1378.0 | 1402.8 | 1502.3 | 1601.6 | 1502.3 | 1402.8 | 1378.0 | 1205.6 | 975.9 | 861.0 | 797.0 |
| 130° | 1316.7 | 1339.6 | 1431.5 | 1523.3 | 1431.5 | 1339.6 | 1316.7 | 1163.2 | 958.7 | 856.4 | 798.3 |
| 132.5° | 1264.5 | 1285.0 | 1367.3 | 1449.5 | 1367.3 | 1285.0 | 1264.5 | 1127.1 | 944.0 | 852.4 | 799.1 |
| 135° | 1190.7 | 1208.5 | 1279.3 | 1350.2 | 1279.3 | 1208.5 | 1190.7 | 1075.6 | 922.3 | 845.6 | 798.3 |
| 137.5° | 1136.2 | 1150.7 | 1208.7 | 1266.8 | 1208.7 | 1150.7 | 1136.2 | 1039.0 | 909.4 | 844.5 | 803.3 |
| 140° | 1092.5 | 1106.0 | 1160.3 | 1214.5 | 1160.3 | 1106.0 | 1092.5 | 1008.5 | 896.5 | 840.5 | 804.0 |
| 142.5° | 1061.8 | 1073.5 | 1120.2 | 1166.9 | 1120.2 | 1073.5 | 1061.8 | 988.0 | 889.7 | 840.5 | 806.9 |
| 145° | 1015.9 | 1024.7 | 1060.1 | 1095.4 | 1060.1 | 1024.7 | 1015.9 | 955.6 | 875.1 | 834.9 | 807.0 |
| 147.5° | 977.3 | 984.6 | 1013.9 | 1043.2 | 1013.9 | 984.6 | 977.3 | 929.8 | 866.5 | 834.9 | 812.5 |
| 150° | 955.1 | 961.0 | 984.8 | 1008.5 | 984.8 | 961.0 | 955.1 | 915.0 | 861.6 | 834.9 | 815.4 |
| 152.5° | 937.6 | 942.0 | 959.9 | 977.9 | 959.9 | 942.0 | 937.6 | 903.4 | 857.7 | 834.9 | 817.3 |
| 155° | 916.6 | 919.6 | 931.4 | 943.2 | 931.4 | 919.6 | 916.6 | 889.4 | 853.1 | 834.9 | 821.5 |
| 157.5° | 898.4 | 900.5 | 908.8 | 917.1 | 908.8 | 900.5 | 898.4 | 877.3 | 849.0 | 834.9 | 825.7 |
| 160° | 889.4 | 890.5 | 895.4 | 900.1 | 895.4 | 890.5 | 889.4 | 871.2 | 847.0 | 834.9 | 827.6 |
| 162.5° | 880.8 | 881.9 | 886.4 | 891.0 | 886.4 | 881.9 | 880.8 | 865.5 | 845.1 | 834.9 | 829.6 |
| 165° | 867.8 | 869.0 | 873.8 | 878.5 | 873.8 | 869.0 | 867.8 | 856.8 | 842.1 | 834.9 | 832.5 |
| 167.5° | 862.1 | 862.6 | 864.6 | 866.6 | 864.6 | 862.6 | 862.1 | 854.9 | 845.3 | 840.5 | 838.5 |
| 170° | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 854.9 | 845.3 | 840.5 | 840.4 |
| 172.5° | 857.5 | 857.1 | 855.3 | 853.6 | 855.3 | 857.1 | 857.5 | 851.9 | 844.3 | 840.5 | 840.5 |
| 175° | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 847.7 | 842.9 | 840.5 | 841.6 |
| 177.5° | 850.1 | 849.6 | 847.6 | 845.6 | 847.6 | 849.6 | 850.1 | 847.3 | 843.6 | 841.7 | 842.6 |
| 180° | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 |



TEST NUMBER: P935040

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 0° | 967.2 | 967.2 | 967.2 | 967.2 | 967.2 |
| 2.5° | 955.3 | 959.9 | 962.7 | 966.3 | 975.5 |
| 5° | 918.7 | 936.1 | 941.7 | 955.3 | 971.8 |
| 7.5° | 838.2 | 891.3 | 905.9 | 938.8 | 964.5 |
| 10° | 760.5 | 813.5 | 839.1 | 916.9 | 955.3 |
| 12.5° | 721.1 | 752.2 | 769.6 | 878.4 | 942.6 |
| 15° | 696.3 | 718.3 | 731.2 | 827.2 | 927.9 |
| 17.5° | 677.1 | 692.7 | 701.9 | 776.9 | 907.7 |
| 20° | 665.2 | 672.6 | 680.8 | 740.3 | 884.9 |
| 22.5° | 657.0 | 652.5 | 658.9 | 714.7 | 853.8 |
| 25° | 651.6 | 634.1 | 641.5 | 694.5 | 817.1 |
| 27.5° | 656.1 | 617.6 | 620.5 | 676.2 | 778.7 |
| 30° | 657.0 | 597.5 | 598.5 | 657.0 | 735.7 |
| 32.5° | 650.7 | 576.5 | 577.4 | 633.2 | 687.2 |
| 35° | 635.0 | 551.8 | 550.9 | 605.8 | 621.4 |
| 37.5° | 614.0 | 525.2 | 525.2 | 575.6 | 549.1 |
| 40° | 588.4 | 498.8 | 501.5 | 536.2 | 485.0 |
| 42.5° | 557.2 | 470.4 | 474.0 | 484.1 | 437.4 |
| 45° | 523.4 | 442.9 | 445.6 | 409.1 | 400.8 |
| 47.5° | 485.9 | 414.5 | 415.4 | 339.5 | 388.9 |
| 50° | 441.1 | 385.2 | 381.6 | 291.0 | 388.0 |
| 52.5° | 401.7 | 353.2 | 342.2 | 263.5 | 352.3 |
| 55° | 363.3 | 319.4 | 295.5 | 242.5 | 326.7 |
| 57.5° | 329.5 | 275.4 | 252.6 | 217.8 | 321.2 |
| 60° | 298.3 | 232.4 | 215.0 | 191.2 | 294.6 |
| 62.5° | 272.7 | 200.4 | 196.8 | 172.9 | 267.2 |
| 65° | 245.2 | 178.5 | 177.6 | 157.4 | 227.0 |
| 67.5° | 218.7 | 163.8 | 162.9 | 142.7 | 172.9 |
| 70° | 190.3 | 148.3 | 146.5 | 127.2 | 128.1 |
| 72.5° | 161.1 | 130.9 | 129.0 | 114.3 | 106.2 |
| 75° | 131.8 | 110.7 | 109.8 | 99.8 | 86.1 |
| 77.5° | 103.4 | 87.9 | 89.7 | 80.5 | 63.1 |
| 80° | 74.1 | 64.0 | 65.9 | 57.7 | 47.6 |
| 82.5° | 49.4 | 42.1 | 43.9 | 36.6 | 32.0 |
| 85° | 27.5 | 23.8 | 24.7 | 19.2 | 14.6 |
| 87.5° | 12.8 | 11.0 | 11.0 | 7.3 | 4.5 |
| 90° | 25.0 | 15.9 | 14.7 | 10.2 | 5.6 |
| 92.5° | 154.0 | 109.5 | 99.9 | 61.3 | 22.7 |
| 95° | 379.0 | 213.4 | 195.8 | 125.1 | 54.5 |
| 97.5° | 510.4 | 234.4 | 218.9 | 156.5 | 94.2 |
| 100° | 558.2 | 252.0 | 237.9 | 181.4 | 124.9 |
| 102.5° | 580.3 | 269.6 | 256.4 | 203.8 | 151.0 |
| 105° | 596.5 | 295.7 | 284.5 | 239.9 | 195.2 |
| 107.5° | 599.5 | 334.3 | 323.9 | 282.3 | 240.6 |
| 110° | 595.0 | 355.8 | 346.5 | 308.8 | 271.3 |



TEST NUMBER: P935040

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 595.2 | 382.0 | 373.0 | 337.2 | 301.4 |
| 115° | 600.6 | 421.1 | 412.8 | 379.8 | 346.8 |
| 117.5° | 611.7 | 459.1 | 451.6 | 421.6 | 391.6 |
| 120° | 620.9 | 481.3 | 474.2 | 446.0 | 417.7 |
| 122.5° | 633.9 | 507.4 | 500.3 | 471.7 | 443.3 |
| 125° | 651.6 | 540.9 | 534.4 | 508.4 | 482.4 |
| 127.5° | 669.1 | 573.3 | 566.7 | 540.4 | 514.2 |
| 130° | 682.0 | 594.8 | 587.7 | 559.5 | 531.2 |
| 132.5° | 692.4 | 612.4 | 605.3 | 577.1 | 548.8 |
| 135° | 703.8 | 632.8 | 626.4 | 600.6 | 574.9 |
| 137.5° | 720.8 | 658.9 | 652.6 | 627.0 | 601.5 |
| 140° | 731.2 | 676.5 | 670.7 | 647.2 | 623.7 |
| 142.5° | 739.9 | 689.6 | 684.1 | 662.5 | 640.7 |
| 145° | 751.3 | 709.4 | 704.7 | 685.8 | 666.9 |
| 147.5° | 767.8 | 734.3 | 729.7 | 711.3 | 693.0 |
| 150° | 776.6 | 747.4 | 743.3 | 726.6 | 710.0 |
| 152.5° | 782.3 | 756.0 | 752.8 | 740.3 | 727.6 |
| 155° | 794.7 | 774.6 | 772.3 | 763.0 | 753.7 |
| 157.5° | 807.2 | 793.4 | 791.1 | 782.1 | 773.0 |
| 160° | 812.9 | 801.9 | 800.2 | 793.1 | 786.0 |
| 162.5° | 818.9 | 811.0 | 809.7 | 804.4 | 799.1 |
| 165° | 827.7 | 824.0 | 822.9 | 818.0 | 813.3 |
| 167.5° | 834.4 | 831.4 | 830.9 | 828.6 | 826.3 |
| 170° | 840.1 | 840.0 | 839.4 | 837.1 | 834.9 |
| 172.5° | 840.5 | 840.5 | 840.4 | 839.9 | 839.4 |
| 175° | 843.9 | 845.6 | 845.6 | 845.6 | 845.6 |
| 177.5° | 844.3 | 845.6 | 845.6 | 845.6 | 845.6 |
| 180° | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 |



TEST NUMBER: P935040
 CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-4000K

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 | 8.99 | 9.71 | 10.10 | 10.81 | 12.32 | 11.82 | 12.53 | 12.92 | 13.63 | 15.15 |
| | 3H | 9.46 | 10.10 | 10.57 | 11.21 | 12.74 | 13.15 | 13.79 | 14.26 | 14.90 | 16.43 |
| | 4H | 9.64 | 10.25 | 10.76 | 11.36 | 12.90 | 13.59 | 14.20 | 14.71 | 15.30 | 16.84 |
| | 6H | 9.76 | 10.31 | 10.88 | 11.43 | 12.97 | 13.86 | 14.42 | 14.99 | 15.53 | 17.08 |
| | 8H | 9.75 | 10.28 | 10.88 | 11.41 | 12.95 | 13.93 | 14.46 | 15.06 | 15.59 | 17.13 |
| | 12H | 9.72 | 10.22 | 10.85 | 11.34 | 12.91 | 13.96 | 14.47 | 15.10 | 15.59 | 17.15 |
| 4H | 2H | 10.01 | 10.62 | 11.14 | 11.72 | 13.26 | 12.21 | 12.82 | 13.34 | 13.93 | 15.46 |
| | 3H | 11.02 | 11.53 | 12.15 | 12.66 | 14.21 | 13.70 | 14.21 | 14.83 | 15.34 | 16.89 |
| | 4H | 11.29 | 11.76 | 12.43 | 12.88 | 14.45 | 14.22 | 14.69 | 15.36 | 15.81 | 17.38 |
| | 6H | 11.41 | 11.81 | 12.55 | 12.95 | 14.51 | 14.58 | 14.97 | 15.72 | 16.12 | 17.68 |
| | 8H | 11.41 | 11.78 | 12.55 | 12.92 | 14.50 | 14.68 | 15.05 | 15.82 | 16.19 | 17.77 |
| | 12H | 11.37 | 11.71 | 12.53 | 12.86 | 14.44 | 14.73 | 15.06 | 15.89 | 16.21 | 17.80 |
| 8H | 4H | 11.73 | 12.10 | 12.87 | 13.24 | 14.82 | 14.33 | 14.71 | 15.48 | 15.84 | 17.42 |
| | 6H | 11.99 | 12.29 | 13.15 | 13.47 | 15.05 | 14.76 | 15.07 | 15.93 | 16.25 | 17.82 |
| | 8H | 12.03 | 12.30 | 13.20 | 13.46 | 15.05 | 14.91 | 15.18 | 16.08 | 16.34 | 17.93 |
| | 12H | 12.01 | 12.24 | 13.18 | 13.40 | 15.03 | 15.00 | 15.24 | 16.18 | 16.40 | 18.02 |
| 12H | 4H | 11.73 | 12.07 | 12.89 | 13.22 | 14.80 | 14.29 | 14.63 | 15.45 | 15.78 | 17.36 |
| | 6H | 12.05 | 12.31 | 13.22 | 13.47 | 15.07 | 14.76 | 15.03 | 15.93 | 16.19 | 17.78 |
| | 8H | 12.11 | 12.34 | 13.28 | 13.50 | 15.13 | 14.91 | 15.15 | 16.09 | 16.30 | 17.93 |