

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: P935935

Luminaire Tested: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935935
REPORT IS A COMBINATION OF REPORTS P933774 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

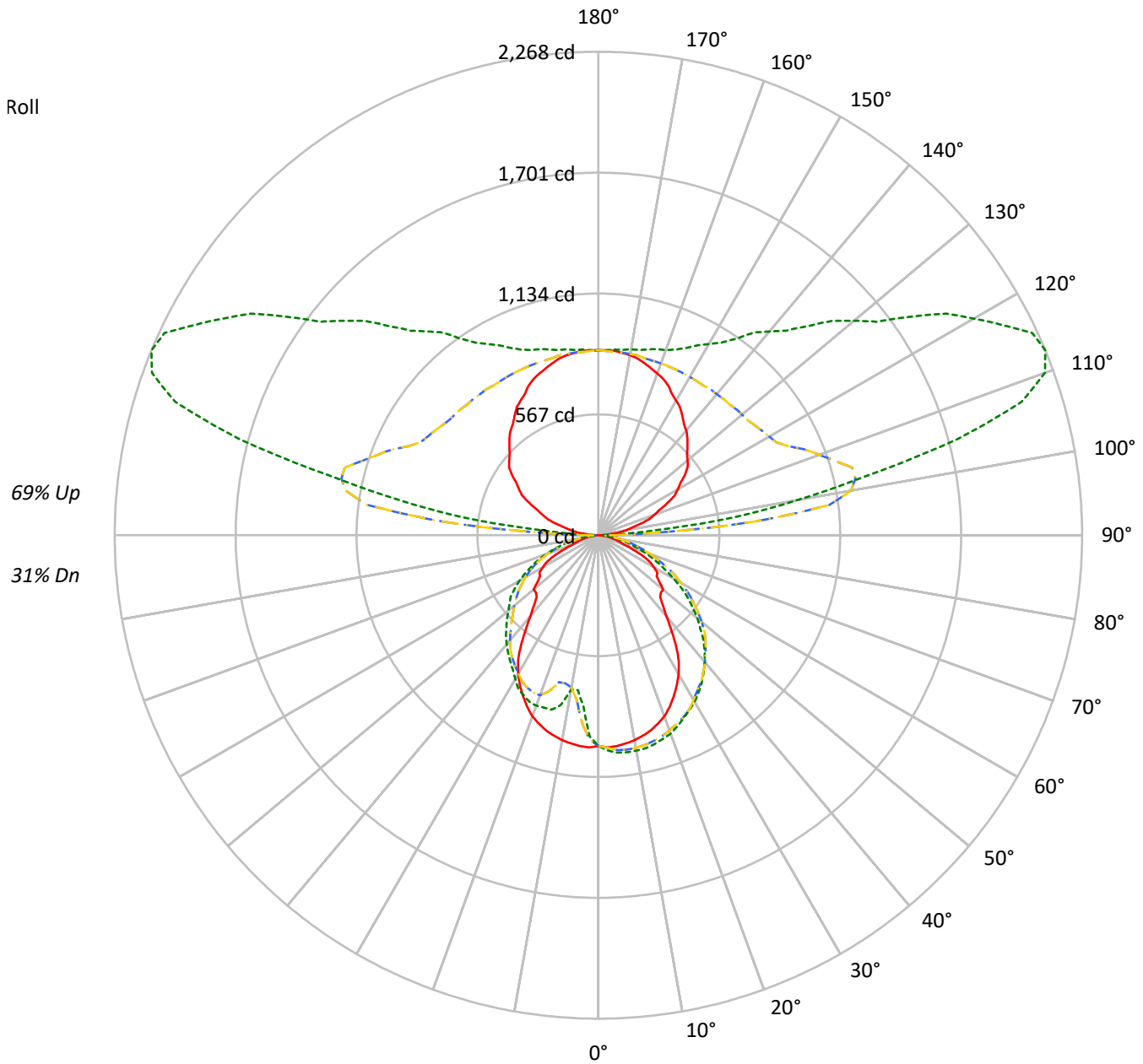
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8196.4 lumens
Efficiency: N/A
Efficacy: 128.9 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: Semi-Indirect

Input Watts (W): 63.6
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: P935935
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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 | 34 | 34 | 33 | 26 |
| 2 | 85 | 78 | 72 | 67 | 76 | 70 | 65 | 61 | 56 | 52 | 49 | 43 | 40 | 38 | 30 | 29 | 28 | 22 |
| 3 | 78 | 69 | 61 | 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 | 33 | 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 | 23 | 21 | 19 | 17 | 15 | 12 |
| 7 | 55 | 43 | 36 | 30 | 49 | 39 | 33 | 28 | 32 | 27 | 23 | 24 | 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 | 14 | 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° | 9169 | 9169 | 9169 | 9169 |
| 5° | 9227 | 9256 | 9227 | 7278 |
| 10° | 9155 | 9118 | 9155 | 6518 |
| 15° | 9045 | 8920 | 9045 | 7448 |
| 20° | 8846 | 8685 | 8846 | 7464 |
| 25° | 8449 | 8344 | 8449 | 7305 |
| 30° | 7939 | 8061 | 7939 | 6958 |
| 35° | 7067 | 7702 | 7067 | 6577 |
| 40° | 5879 | 7281 | 5879 | 6288 |
| 45° | 5243 | 6787 | 5243 | 5957 |
| 50° | 5557 | 6198 | 5557 | 5624 |
| 55° | 5214 | 5563 | 5214 | 5432 |
| 60° | 5354 | 4725 | 5354 | 4975 |
| 65° | 4831 | 3905 | 4831 | 4366 |
| 70° | 3323 | 3112 | 3323 | 3660 |
| 75° | 2882 | 2300 | 2882 | 2754 |
| 80° | 2275 | 1521 | 2275 | 1656 |
| 85° | 1242 | 806 | 1242 | 685 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8050 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.2 | 1.1 |
| 10°-20° | 253.2 | 3.1 |
| 20°-30° | 391.5 | 4.8 |
| 30°-40° | 467.3 | 5.7 |
| 40°-50° | 470.1 | 5.7 |
| 50°-60° | 409.0 | 5.0 |
| 60°-70° | 290.0 | 3.5 |
| 70°-80° | 153.4 | 1.9 |
| 80°-90° | 41.5 | 0.5 |
| 90°-100° | 423.4 | 5.2 |
| 100°-110° | 1113.2 | 13.6 |
| 110°-120° | 1154.3 | 14.1 |
| 120°-130° | 925.9 | 11.3 |
| 130°-140° | 726.5 | 8.9 |
| 140°-150° | 557.6 | 6.8 |
| 150°-160° | 401.6 | 4.9 |
| 160°-170° | 245.7 | 3.0 |
| 170°-180° | 83.0 | 1.0 |
| 0°-30° | 733.9 | 9.0 |
| 0°-40° | 1201.2 | 14.7 |
| 0°-60° | 2080.4 | 25.4 |
| 0°-90° | 2565.3 | 31.3 |
| 90°-120° | 2690.9 | 32.8 |
| 90°-150° | 4900.8 | 59.8 |
| 90°-180° | 5631.0 | 68.7 |
| 0°-180° | 8196.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|------|------|------|------|------|
| 0° | 988 | 988 | 988 | 988 | 988 | |
| 5° | 993 | 1024 | 993 | 805 | 993 | 94 |
| 15° | 948 | 1014 | 948 | 847 | 948 | 267 |
| 25° | 835 | 946 | 835 | 828 | 835 | 383 |
| 35° | 635 | 844 | 635 | 721 | 635 | 393 |
| 45° | 410 | 696 | 410 | 610 | 410 | 328 |
| 55° | 334 | 513 | 334 | 501 | 334 | 307 |
| 65° | 232 | 309 | 232 | 346 | 232 | 222 |
| 75° | 88 | 147 | 88 | 176 | 88 | 92 |
| 85° | 15 | 37 | 15 | 32 | 15 | 20 |
| 90° | 6 | 22 | 6 | 22 | 6 | 5 |
| 95° | 56 | 256 | 56 | 256 | 56 | 62 |
| 105° | 201 | 1743 | 201 | 1743 | 201 | 213 |
| 115° | 356 | 2244 | 356 | 2244 | 356 | 352 |
| 125° | 496 | 1787 | 496 | 1787 | 496 | 440 |
| 135° | 590 | 1387 | 590 | 1387 | 590 | 457 |
| 145° | 685 | 1125 | 685 | 1125 | 685 | 429 |
| 155° | 774 | 969 | 774 | 969 | 774 | 356 |
| 165° | 835 | 902 | 835 | 902 | 835 | 236 |
| 175° | 869 | 874 | 869 | 874 | 869 | 82 |
| 180° | 869 | 869 | 869 | 869 | 869 | |



TEST NUMBER: P935935

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 |
| 2.5° | 996.5 | 996.5 | 1002.2 | 1004.1 | 1004.1 | 1001.3 | 998.5 | 1001.3 | 1009.7 | 1012.5 | 1011.5 |
| 5° | 992.8 | 1000.3 | 1010.6 | 1012.5 | 1014.3 | 1013.4 | 1011.5 | 1013.4 | 1022.8 | 1024.6 | 1025.6 |
| 7.5° | 985.3 | 999.4 | 1012.5 | 1015.3 | 1018.1 | 1015.3 | 1014.3 | 1016.2 | 1025.6 | 1027.4 | 1027.4 |
| 10° | 975.9 | 995.6 | 1010.6 | 1012.5 | 1015.3 | 1012.5 | 1012.5 | 1016.2 | 1025.6 | 1027.4 | 1028.4 |
| 12.5° | 962.8 | 989.9 | 1004.1 | 1005.9 | 1009.7 | 1008.7 | 1007.8 | 1011.5 | 1020.9 | 1022.8 | 1022.8 |
| 15° | 947.9 | 979.7 | 992.8 | 994.6 | 1001.3 | 999.4 | 999.4 | 1003.1 | 1013.4 | 1016.2 | 1015.3 |
| 17.5° | 927.3 | 966.6 | 981.5 | 984.3 | 989.0 | 988.1 | 989.0 | 992.8 | 1002.2 | 1004.1 | 1005.0 |
| 20° | 904.0 | 948.8 | 966.6 | 969.4 | 974.1 | 974.1 | 974.1 | 978.7 | 988.1 | 991.8 | 991.8 |
| 22.5° | 872.2 | 930.1 | 948.8 | 950.7 | 956.3 | 956.3 | 958.2 | 964.7 | 973.1 | 974.1 | 974.1 |
| 25° | 834.8 | 909.6 | 925.5 | 931.1 | 936.7 | 939.5 | 942.3 | 946.0 | 948.8 | 947.9 | 948.8 |
| 27.5° | 795.5 | 883.4 | 904.0 | 907.7 | 915.2 | 918.0 | 921.7 | 922.6 | 923.6 | 926.4 | 924.5 |
| 30° | 751.6 | 846.9 | 877.8 | 881.5 | 893.7 | 895.5 | 891.8 | 893.7 | 898.3 | 900.2 | 902.1 |
| 32.5° | 702.1 | 792.7 | 850.7 | 859.1 | 870.3 | 864.7 | 863.8 | 866.6 | 874.0 | 874.0 | 875.9 |
| 35° | 634.8 | 750.7 | 825.4 | 832.9 | 841.3 | 834.8 | 838.5 | 839.5 | 844.1 | 846.9 | 846.0 |
| 37.5° | 560.9 | 714.2 | 799.3 | 804.9 | 811.4 | 803.0 | 808.6 | 811.4 | 815.2 | 813.3 | 813.3 |
| 40° | 495.5 | 657.2 | 768.4 | 772.2 | 777.8 | 771.2 | 776.8 | 778.7 | 780.6 | 778.7 | 777.8 |
| 42.5° | 446.9 | 594.6 | 735.7 | 740.4 | 736.6 | 741.3 | 743.2 | 746.9 | 744.1 | 740.4 | 740.4 |
| 45° | 409.5 | 577.7 | 700.2 | 705.8 | 700.2 | 707.7 | 710.5 | 710.5 | 702.1 | 700.2 | 699.3 |
| 47.5° | 397.3 | 544.1 | 664.7 | 664.7 | 661.9 | 671.2 | 675.9 | 669.3 | 660.9 | 658.1 | 658.1 |
| 50° | 396.4 | 506.7 | 616.1 | 612.3 | 625.4 | 636.6 | 632.0 | 625.4 | 618.9 | 608.6 | 608.6 |
| 52.5° | 360.0 | 460.9 | 553.4 | 567.5 | 588.0 | 594.6 | 587.1 | 580.5 | 569.3 | 564.7 | 560.9 |
| 55° | 333.8 | 413.2 | 496.4 | 524.5 | 546.0 | 554.4 | 540.4 | 533.8 | 517.0 | 514.2 | 512.3 |
| 57.5° | 328.1 | 344.1 | 444.1 | 479.6 | 505.8 | 504.8 | 496.4 | 484.3 | 470.3 | 467.4 | 466.5 |
| 60° | 301.0 | 248.6 | 388.0 | 430.1 | 457.2 | 454.4 | 446.9 | 435.7 | 422.6 | 420.7 | 418.8 |
| 62.5° | 272.9 | 180.4 | 324.3 | 372.1 | 410.4 | 409.5 | 403.0 | 386.1 | 376.8 | 372.1 | 368.4 |
| 65° | 231.8 | 151.4 | 230.9 | 309.4 | 364.6 | 366.5 | 352.5 | 340.3 | 330.0 | 324.3 | 323.4 |
| 67.5° | 176.7 | 123.4 | 156.1 | 258.0 | 320.6 | 318.7 | 301.0 | 295.4 | 282.3 | 279.5 | 273.9 |
| 70° | 130.9 | 82.3 | 108.4 | 209.4 | 277.6 | 272.9 | 258.9 | 252.4 | 240.2 | 233.7 | 229.9 |
| 72.5° | 108.4 | 66.4 | 79.5 | 162.6 | 233.7 | 228.1 | 215.9 | 208.4 | 198.2 | 192.5 | 188.8 |
| 75° | 87.9 | 70.1 | 60.8 | 120.6 | 189.7 | 186.0 | 174.8 | 167.3 | 158.9 | 151.4 | 152.4 |
| 77.5° | 64.5 | 65.4 | 48.6 | 88.8 | 150.5 | 144.9 | 138.3 | 129.0 | 125.3 | 117.8 | 117.8 |
| 80° | 48.6 | 51.4 | 36.5 | 60.8 | 108.4 | 108.4 | 102.8 | 96.3 | 89.7 | 86.0 | 86.0 |
| 82.5° | 32.7 | 32.7 | 27.1 | 38.3 | 73.8 | 71.0 | 67.3 | 65.4 | 61.7 | 59.8 | 59.8 |
| 85° | 15.0 | 18.7 | 16.8 | 23.4 | 40.2 | 42.1 | 42.1 | 40.2 | 39.3 | 37.4 | 38.3 |
| 87.5° | 4.7 | 8.4 | 10.3 | 13.1 | 20.6 | 21.5 | 22.4 | 22.4 | 22.4 | 23.4 | 23.4 |
| 90° | 5.8 | 10.5 | 15.1 | 16.4 | 25.7 | 38.1 | 44.3 | 39.4 | 29.5 | 22.2 | 22.2 |
| 92.5° | 23.3 | 62.9 | 102.6 | 112.5 | 158.2 | 219.0 | 249.5 | 218.6 | 157.0 | 110.8 | 106.4 |
| 95° | 56.0 | 128.5 | 201.1 | 219.2 | 389.2 | 616.0 | 729.4 | 650.8 | 493.8 | 376.0 | 362.7 |
| 97.5° | 96.7 | 160.8 | 224.8 | 240.8 | 524.3 | 902.4 | 1091.4 | 1041.7 | 942.5 | 868.1 | 842.6 |
| 100° | 128.2 | 186.3 | 244.3 | 258.8 | 573.4 | 992.9 | 1202.7 | 1206.3 | 1213.6 | 1219.0 | 1188.8 |
| 102.5° | 155.1 | 209.3 | 263.4 | 277.0 | 596.1 | 1021.4 | 1234.2 | 1297.4 | 1423.8 | 1518.7 | 1492.8 |
| 105° | 200.6 | 246.5 | 292.3 | 303.8 | 612.7 | 1024.6 | 1230.6 | 1372.3 | 1655.8 | 1868.5 | 1854.6 |
| 107.5° | 247.2 | 289.9 | 332.8 | 343.4 | 615.9 | 979.1 | 1160.7 | 1358.4 | 1753.8 | 2050.4 | 2053.7 |
| 110° | 278.6 | 317.2 | 355.9 | 365.6 | 611.2 | 938.6 | 1102.4 | 1323.5 | 1765.5 | 2097.0 | 2111.5 |



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CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 309.6 | 346.4 | 383.2 | 392.4 | 611.4 | 903.4 | 1049.4 | 1275.6 | 1728.0 | 2067.3 | 2089.5 |
| 115° | 356.2 | 390.1 | 424.1 | 432.6 | 617.0 | 862.9 | 985.8 | 1203.7 | 1639.6 | 1966.4 | 1997.4 |
| 117.5° | 402.3 | 433.1 | 464.0 | 471.7 | 628.5 | 837.6 | 942.1 | 1138.8 | 1532.1 | 1827.1 | 1861.4 |
| 120° | 429.0 | 458.1 | 487.1 | 494.4 | 637.7 | 829.0 | 924.6 | 1104.3 | 1463.7 | 1733.2 | 1766.5 |
| 122.5° | 455.3 | 484.6 | 513.9 | 521.2 | 651.2 | 824.6 | 911.2 | 1073.0 | 1396.6 | 1639.4 | 1672.2 |
| 125° | 495.6 | 522.2 | 549.0 | 555.6 | 669.2 | 820.9 | 896.7 | 1034.1 | 1309.0 | 1515.2 | 1545.4 |
| 127.5° | 528.2 | 555.1 | 582.0 | 588.8 | 687.3 | 818.7 | 884.4 | 1002.5 | 1238.5 | 1415.5 | 1441.0 |
| 130° | 545.7 | 574.7 | 603.6 | 610.9 | 700.6 | 820.0 | 879.7 | 984.8 | 1194.9 | 1352.5 | 1376.1 |
| 132.5° | 563.7 | 592.8 | 621.8 | 629.1 | 711.2 | 820.9 | 875.6 | 969.7 | 1157.8 | 1298.9 | 1320.0 |
| 135° | 590.5 | 617.0 | 643.4 | 650.0 | 722.9 | 820.0 | 868.6 | 947.4 | 1104.9 | 1223.1 | 1241.3 |
| 137.5° | 617.9 | 644.1 | 670.3 | 676.8 | 740.4 | 825.2 | 867.5 | 934.1 | 1067.2 | 1167.2 | 1182.0 |
| 140° | 640.7 | 664.9 | 689.0 | 695.0 | 751.1 | 826.0 | 863.4 | 920.9 | 1035.9 | 1122.2 | 1136.1 |
| 142.5° | 658.2 | 680.5 | 702.7 | 708.3 | 760.0 | 828.9 | 863.4 | 914.0 | 1015.0 | 1090.8 | 1102.8 |
| 145° | 685.0 | 704.5 | 723.8 | 728.7 | 771.7 | 829.0 | 857.6 | 898.9 | 981.5 | 1043.5 | 1052.6 |
| 147.5° | 711.8 | 730.8 | 749.6 | 754.4 | 788.8 | 834.7 | 857.6 | 890.1 | 955.1 | 1003.9 | 1011.4 |
| 150° | 729.4 | 746.5 | 763.5 | 767.8 | 797.7 | 837.6 | 857.6 | 885.1 | 939.9 | 981.2 | 987.2 |
| 152.5° | 747.4 | 760.4 | 773.3 | 776.6 | 803.6 | 839.6 | 857.6 | 881.1 | 928.0 | 963.1 | 967.7 |
| 155° | 774.2 | 783.8 | 793.4 | 795.8 | 816.4 | 843.9 | 857.6 | 876.3 | 913.6 | 941.5 | 944.6 |
| 157.5° | 794.0 | 803.4 | 812.6 | 815.0 | 829.2 | 848.2 | 857.6 | 872.1 | 901.1 | 922.8 | 925.0 |
| 160° | 807.4 | 814.7 | 822.0 | 823.8 | 835.1 | 850.1 | 857.6 | 870.0 | 894.9 | 913.5 | 914.7 |
| 162.5° | 820.9 | 826.3 | 831.7 | 833.1 | 841.2 | 852.2 | 857.6 | 868.1 | 889.1 | 904.8 | 905.9 |
| 165° | 835.4 | 840.3 | 845.3 | 846.5 | 850.2 | 855.2 | 857.6 | 865.1 | 880.1 | 891.3 | 892.6 |
| 167.5° | 848.8 | 851.1 | 853.5 | 854.0 | 857.1 | 861.3 | 863.4 | 868.3 | 878.2 | 885.5 | 886.1 |
| 170° | 857.6 | 859.9 | 862.3 | 862.8 | 863.0 | 863.3 | 863.4 | 868.3 | 878.2 | 885.5 | 885.5 |
| 172.5° | 862.3 | 862.7 | 863.3 | 863.4 | 863.4 | 863.4 | 863.4 | 867.3 | 875.1 | 880.9 | 880.4 |
| 175° | 868.6 | 868.6 | 868.6 | 868.6 | 866.8 | 864.5 | 863.4 | 865.8 | 870.8 | 874.5 | 874.5 |
| 177.5° | 868.6 | 868.6 | 868.6 | 868.6 | 867.3 | 865.5 | 864.6 | 866.6 | 870.4 | 873.3 | 872.7 |
| 180° | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 |



TEST NUMBER: P935935

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 |
| 2.5° | 1013.4 | 1010.6 | 1013.4 | 1011.5 | 1012.5 | 1009.7 | 1001.3 | 998.5 | 1001.3 | 1004.1 | 1004.1 |
| 5° | 1025.6 | 1023.7 | 1025.6 | 1025.6 | 1024.6 | 1022.8 | 1013.4 | 1011.5 | 1013.4 | 1014.3 | 1012.5 |
| 7.5° | 1029.3 | 1026.5 | 1029.3 | 1027.4 | 1027.4 | 1025.6 | 1016.2 | 1014.3 | 1015.3 | 1018.1 | 1015.3 |
| 10° | 1029.3 | 1026.5 | 1029.3 | 1028.4 | 1027.4 | 1025.6 | 1016.2 | 1012.5 | 1012.5 | 1015.3 | 1012.5 |
| 12.5° | 1024.6 | 1022.8 | 1024.6 | 1022.8 | 1022.8 | 1020.9 | 1011.5 | 1007.8 | 1008.7 | 1009.7 | 1005.9 |
| 15° | 1017.1 | 1014.3 | 1017.1 | 1015.3 | 1016.2 | 1013.4 | 1003.1 | 999.4 | 999.4 | 1001.3 | 994.6 |
| 17.5° | 1005.9 | 1002.2 | 1005.9 | 1005.0 | 1004.1 | 1002.2 | 992.8 | 989.0 | 988.1 | 989.0 | 984.3 |
| 20° | 992.8 | 989.9 | 992.8 | 991.8 | 991.8 | 988.1 | 978.7 | 974.1 | 974.1 | 974.1 | 969.4 |
| 22.5° | 972.2 | 969.4 | 972.2 | 974.1 | 974.1 | 973.1 | 964.7 | 958.2 | 956.3 | 956.3 | 950.7 |
| 25° | 948.8 | 946.0 | 948.8 | 948.8 | 947.9 | 948.8 | 946.0 | 942.3 | 939.5 | 936.7 | 931.1 |
| 27.5° | 926.4 | 924.5 | 926.4 | 924.5 | 926.4 | 923.6 | 922.6 | 921.7 | 918.0 | 915.2 | 907.7 |
| 30° | 904.0 | 902.1 | 904.0 | 902.1 | 900.2 | 898.3 | 893.7 | 891.8 | 895.5 | 893.7 | 881.5 |
| 32.5° | 875.9 | 874.0 | 875.9 | 875.9 | 874.0 | 874.0 | 866.6 | 863.8 | 864.7 | 870.3 | 859.1 |
| 35° | 846.9 | 844.1 | 846.9 | 846.0 | 846.9 | 844.1 | 839.5 | 838.5 | 834.8 | 841.3 | 832.9 |
| 37.5° | 813.3 | 810.5 | 813.3 | 813.3 | 813.3 | 815.2 | 811.4 | 808.6 | 803.0 | 811.4 | 804.9 |
| 40° | 778.7 | 775.0 | 778.7 | 777.8 | 778.7 | 780.6 | 778.7 | 776.8 | 771.2 | 777.8 | 772.2 |
| 42.5° | 739.4 | 738.5 | 739.4 | 740.4 | 740.4 | 744.1 | 746.9 | 743.2 | 741.3 | 736.6 | 740.4 |
| 45° | 697.4 | 695.5 | 697.4 | 699.3 | 700.2 | 702.1 | 710.5 | 710.5 | 707.7 | 700.2 | 705.8 |
| 47.5° | 652.5 | 647.8 | 652.5 | 658.1 | 658.1 | 660.9 | 669.3 | 675.9 | 671.2 | 661.9 | 664.7 |
| 50° | 604.8 | 605.8 | 604.8 | 608.6 | 608.6 | 618.9 | 625.4 | 632.0 | 636.6 | 625.4 | 612.3 |
| 52.5° | 558.1 | 557.2 | 558.1 | 560.9 | 564.7 | 569.3 | 580.5 | 587.1 | 594.6 | 588.0 | 567.5 |
| 55° | 511.4 | 513.2 | 511.4 | 512.3 | 514.2 | 517.0 | 533.8 | 540.4 | 554.4 | 546.0 | 524.5 |
| 57.5° | 464.6 | 461.8 | 464.6 | 466.5 | 467.4 | 470.3 | 484.3 | 496.4 | 504.8 | 505.8 | 479.6 |
| 60° | 410.4 | 406.7 | 410.4 | 418.8 | 420.7 | 422.6 | 435.7 | 446.9 | 454.4 | 457.2 | 430.1 |
| 62.5° | 362.8 | 356.2 | 362.8 | 368.4 | 372.1 | 376.8 | 386.1 | 403.0 | 409.5 | 410.4 | 372.1 |
| 65° | 312.2 | 309.4 | 312.2 | 323.4 | 324.3 | 330.0 | 340.3 | 352.5 | 366.5 | 364.6 | 309.4 |
| 67.5° | 266.4 | 266.4 | 266.4 | 273.9 | 279.5 | 282.3 | 295.4 | 301.0 | 318.7 | 320.6 | 258.0 |
| 70° | 224.3 | 223.4 | 224.3 | 229.9 | 233.7 | 240.2 | 252.4 | 258.9 | 272.9 | 277.6 | 209.4 |
| 72.5° | 184.1 | 183.2 | 184.1 | 188.8 | 192.5 | 198.2 | 208.4 | 215.9 | 228.1 | 233.7 | 162.6 |
| 75° | 148.6 | 146.7 | 148.6 | 152.4 | 151.4 | 158.9 | 167.3 | 174.8 | 186.0 | 189.7 | 120.6 |
| 77.5° | 114.0 | 114.0 | 114.0 | 117.8 | 117.8 | 125.3 | 129.0 | 138.3 | 144.9 | 150.5 | 88.8 |
| 80° | 85.1 | 84.1 | 85.1 | 86.0 | 86.0 | 89.7 | 96.3 | 102.8 | 108.4 | 108.4 | 60.8 |
| 82.5° | 59.8 | 58.0 | 59.8 | 59.8 | 59.8 | 61.7 | 65.4 | 67.3 | 71.0 | 73.8 | 38.3 |
| 85° | 37.4 | 37.4 | 37.4 | 38.3 | 37.4 | 39.3 | 40.2 | 42.1 | 42.1 | 40.2 | 23.4 |
| 87.5° | 24.3 | 23.4 | 24.3 | 23.4 | 23.4 | 22.4 | 22.4 | 22.4 | 21.5 | 20.6 | 13.1 |
| 90° | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 29.5 | 39.4 | 44.3 | 38.1 | 25.7 | 16.4 |
| 92.5° | 88.7 | 71.1 | 88.7 | 106.4 | 110.8 | 157.0 | 218.6 | 249.5 | 219.0 | 158.2 | 112.5 |
| 95° | 309.3 | 255.9 | 309.3 | 362.7 | 376.0 | 493.8 | 650.8 | 729.4 | 616.0 | 389.2 | 219.2 |
| 97.5° | 741.1 | 639.5 | 741.1 | 842.6 | 868.1 | 942.5 | 1041.7 | 1091.4 | 902.4 | 524.3 | 240.8 |
| 100° | 1067.8 | 946.8 | 1067.8 | 1188.8 | 1219.0 | 1213.6 | 1206.3 | 1202.7 | 992.9 | 573.4 | 258.8 |
| 102.5° | 1389.2 | 1285.5 | 1389.2 | 1492.8 | 1518.7 | 1423.8 | 1297.4 | 1234.2 | 1021.4 | 596.1 | 277.0 |
| 105° | 1798.8 | 1743.1 | 1798.8 | 1854.6 | 1868.5 | 1655.8 | 1372.3 | 1230.6 | 1024.6 | 612.7 | 303.8 |
| 107.5° | 2067.2 | 2080.7 | 2067.2 | 2053.7 | 2050.4 | 1753.8 | 1358.4 | 1160.7 | 979.1 | 615.9 | 343.4 |
| 110° | 2169.5 | 2227.6 | 2169.5 | 2111.5 | 2097.0 | 1765.5 | 1323.5 | 1102.4 | 938.6 | 611.2 | 365.6 |



TEST NUMBER: P935935

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 112.5° | 2178.7 | 2267.8 | 2178.7 | 2089.5 | 2067.3 | 1728.0 | 1275.6 | 1049.4 | 903.4 | 611.4 | 392.4 |
| 115° | 2120.9 | 2244.5 | 2120.9 | 1997.4 | 1966.4 | 1639.6 | 1203.7 | 985.8 | 862.9 | 617.0 | 432.6 |
| 117.5° | 1998.4 | 2135.4 | 1998.4 | 1861.4 | 1827.1 | 1532.1 | 1138.8 | 942.1 | 837.6 | 628.5 | 471.7 |
| 120° | 1899.7 | 2032.9 | 1899.7 | 1766.5 | 1733.2 | 1463.7 | 1104.3 | 924.6 | 829.0 | 637.7 | 494.4 |
| 122.5° | 1803.6 | 1934.9 | 1803.6 | 1672.2 | 1639.4 | 1396.6 | 1073.0 | 911.2 | 824.6 | 651.2 | 521.2 |
| 125° | 1666.4 | 1787.4 | 1666.4 | 1545.4 | 1515.2 | 1309.0 | 1034.1 | 896.7 | 820.9 | 669.2 | 555.6 |
| 127.5° | 1543.1 | 1645.2 | 1543.1 | 1441.0 | 1415.5 | 1238.5 | 1002.5 | 884.4 | 818.7 | 687.3 | 588.8 |
| 130° | 1470.4 | 1564.7 | 1470.4 | 1376.1 | 1352.5 | 1194.9 | 984.8 | 879.7 | 820.0 | 700.6 | 610.9 |
| 132.5° | 1404.4 | 1488.9 | 1404.4 | 1320.0 | 1298.9 | 1157.8 | 969.7 | 875.6 | 820.9 | 711.2 | 629.1 |
| 135° | 1314.1 | 1386.9 | 1314.1 | 1241.3 | 1223.1 | 1104.9 | 947.4 | 868.6 | 820.0 | 722.9 | 650.0 |
| 137.5° | 1241.7 | 1301.2 | 1241.7 | 1182.0 | 1167.2 | 1067.2 | 934.1 | 867.5 | 825.2 | 740.4 | 676.8 |
| 140° | 1191.8 | 1247.6 | 1191.8 | 1136.1 | 1122.2 | 1035.9 | 920.9 | 863.4 | 826.0 | 751.1 | 695.0 |
| 142.5° | 1150.7 | 1198.6 | 1150.7 | 1102.8 | 1090.8 | 1015.0 | 914.0 | 863.4 | 828.9 | 760.0 | 708.3 |
| 145° | 1088.9 | 1125.2 | 1088.9 | 1052.6 | 1043.5 | 981.5 | 898.9 | 857.6 | 829.0 | 771.7 | 728.7 |
| 147.5° | 1041.4 | 1071.5 | 1041.4 | 1011.4 | 1003.9 | 955.1 | 890.1 | 857.6 | 834.7 | 788.8 | 754.4 |
| 150° | 1011.6 | 1035.9 | 1011.6 | 987.2 | 981.2 | 939.9 | 885.1 | 857.6 | 837.6 | 797.7 | 767.8 |
| 152.5° | 986.1 | 1004.4 | 986.1 | 967.7 | 963.1 | 928.0 | 881.1 | 857.6 | 839.6 | 803.6 | 776.6 |
| 155° | 956.8 | 968.9 | 956.8 | 944.6 | 941.5 | 913.6 | 876.3 | 857.6 | 843.9 | 816.4 | 795.8 |
| 157.5° | 933.5 | 942.1 | 933.5 | 925.0 | 922.8 | 901.1 | 872.1 | 857.6 | 848.2 | 829.2 | 815.0 |
| 160° | 919.7 | 924.6 | 919.7 | 914.7 | 913.5 | 894.9 | 870.0 | 857.6 | 850.1 | 835.1 | 823.8 |
| 162.5° | 910.6 | 915.3 | 910.6 | 905.9 | 904.8 | 889.1 | 868.1 | 857.6 | 852.2 | 841.2 | 833.1 |
| 165° | 897.5 | 902.5 | 897.5 | 892.6 | 891.3 | 880.1 | 865.1 | 857.6 | 855.2 | 850.2 | 846.5 |
| 167.5° | 888.2 | 890.2 | 888.2 | 886.1 | 885.5 | 878.2 | 868.3 | 863.4 | 861.3 | 857.1 | 854.0 |
| 170° | 885.5 | 885.5 | 885.5 | 885.5 | 885.5 | 878.2 | 868.3 | 863.4 | 863.3 | 863.0 | 862.8 |
| 172.5° | 878.6 | 876.8 | 878.6 | 880.4 | 880.9 | 875.1 | 867.3 | 863.4 | 863.4 | 863.4 | 863.4 |
| 175° | 874.5 | 874.5 | 874.5 | 874.5 | 874.5 | 870.8 | 865.8 | 863.4 | 864.5 | 866.8 | 868.6 |
| 177.5° | 870.7 | 868.6 | 870.7 | 872.7 | 873.3 | 870.4 | 866.6 | 864.6 | 865.5 | 867.3 | 868.6 |
| 180° | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 |



TEST NUMBER: P935935

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|--------|--------|-------|-------|-------|--------|-------|--------|--------|--------|--------|
| 0° | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 |
| 2.5° | 1002.2 | 996.5 | 996.5 | 987.1 | 983.4 | 980.6 | 975.9 | 961.9 | 958.2 | 954.4 | 960.0 |
| 5° | 1010.6 | 1000.3 | 992.8 | 975.9 | 961.9 | 956.3 | 938.5 | 904.9 | 882.5 | 865.6 | 856.3 |
| 7.5° | 1012.5 | 999.4 | 985.3 | 959.1 | 925.5 | 910.5 | 856.3 | 794.6 | 777.8 | 762.8 | 753.5 |
| 10° | 1010.6 | 995.6 | 975.9 | 936.7 | 857.2 | 831.0 | 776.8 | 736.6 | 726.4 | 723.6 | 726.4 |
| 12.5° | 1004.1 | 989.9 | 962.8 | 897.4 | 786.2 | 768.4 | 736.6 | 713.3 | 711.4 | 716.1 | 741.3 |
| 15° | 992.8 | 979.7 | 947.9 | 845.1 | 746.9 | 733.8 | 711.4 | 703.0 | 713.3 | 746.0 | 821.7 |
| 17.5° | 981.5 | 966.6 | 927.3 | 793.7 | 717.0 | 707.7 | 691.8 | 708.6 | 766.6 | 810.5 | 835.7 |
| 20° | 966.6 | 948.8 | 904.0 | 756.3 | 695.5 | 687.1 | 679.6 | 755.3 | 799.3 | 815.2 | 829.2 |
| 22.5° | 948.8 | 930.1 | 872.2 | 730.1 | 673.1 | 666.5 | 671.2 | 781.5 | 799.3 | 810.5 | 822.6 |
| 25° | 925.5 | 909.6 | 834.8 | 709.5 | 655.3 | 647.8 | 665.6 | 778.7 | 789.0 | 791.8 | 816.1 |
| 27.5° | 904.0 | 883.4 | 795.5 | 690.8 | 633.8 | 631.0 | 670.3 | 766.6 | 774.0 | 776.8 | 803.0 |
| 30° | 877.8 | 846.9 | 751.6 | 671.2 | 611.4 | 610.5 | 671.2 | 751.6 | 749.7 | 757.2 | 783.4 |
| 32.5° | 850.7 | 792.7 | 702.1 | 646.9 | 589.9 | 589.0 | 664.7 | 729.2 | 727.3 | 737.6 | 757.2 |
| 35° | 825.4 | 750.7 | 634.8 | 618.9 | 562.8 | 563.7 | 648.8 | 703.0 | 703.9 | 713.3 | 725.4 |
| 37.5° | 799.3 | 714.2 | 560.9 | 588.0 | 536.6 | 536.6 | 627.3 | 678.7 | 676.8 | 679.6 | 696.4 |
| 40° | 768.4 | 657.2 | 495.5 | 547.8 | 512.3 | 509.5 | 601.1 | 652.5 | 646.0 | 645.0 | 668.4 |
| 42.5° | 735.7 | 594.6 | 446.9 | 494.6 | 484.3 | 480.5 | 569.3 | 620.7 | 608.6 | 611.4 | 641.3 |
| 45° | 700.2 | 577.7 | 409.5 | 417.9 | 455.3 | 452.5 | 534.7 | 584.3 | 575.9 | 583.4 | 614.2 |
| 47.5° | 664.7 | 544.1 | 397.3 | 346.9 | 424.4 | 423.5 | 496.4 | 548.8 | 544.1 | 551.6 | 584.3 |
| 50° | 616.1 | 506.7 | 396.4 | 297.2 | 389.9 | 393.6 | 450.6 | 514.2 | 514.2 | 520.7 | 555.3 |
| 52.5° | 553.4 | 460.9 | 360.0 | 269.2 | 349.7 | 360.9 | 410.4 | 484.3 | 486.1 | 492.7 | 523.5 |
| 55° | 496.4 | 413.2 | 333.8 | 247.7 | 301.9 | 326.2 | 371.2 | 453.4 | 457.2 | 463.7 | 491.7 |
| 57.5° | 444.1 | 344.1 | 328.1 | 222.5 | 258.0 | 281.3 | 336.6 | 423.5 | 425.4 | 431.0 | 458.1 |
| 60° | 388.0 | 248.6 | 301.0 | 195.4 | 219.7 | 237.4 | 304.7 | 388.0 | 394.5 | 398.3 | 421.6 |
| 62.5° | 324.3 | 180.4 | 272.9 | 176.7 | 201.0 | 204.7 | 278.5 | 354.3 | 362.8 | 365.6 | 379.6 |
| 65° | 230.9 | 151.4 | 231.8 | 160.8 | 181.3 | 182.3 | 250.5 | 319.7 | 327.1 | 331.8 | 342.2 |
| 67.5° | 156.1 | 123.4 | 176.7 | 145.8 | 166.4 | 167.3 | 223.4 | 279.5 | 289.8 | 293.5 | 300.0 |
| 70° | 108.4 | 82.3 | 130.9 | 129.9 | 149.6 | 151.4 | 194.4 | 243.0 | 252.4 | 255.2 | 258.9 |
| 72.5° | 79.5 | 66.4 | 108.4 | 116.8 | 131.8 | 133.7 | 164.5 | 201.9 | 211.2 | 214.0 | 215.9 |
| 75° | 60.8 | 70.1 | 87.9 | 101.9 | 112.2 | 113.1 | 134.6 | 164.5 | 171.1 | 172.9 | 173.9 |
| 77.5° | 48.6 | 65.4 | 64.5 | 82.3 | 91.6 | 89.7 | 105.6 | 127.1 | 132.7 | 132.7 | 132.7 |
| 80° | 36.5 | 51.4 | 48.6 | 58.9 | 67.3 | 65.4 | 75.7 | 90.7 | 92.5 | 94.4 | 93.5 |
| 82.5° | 27.1 | 32.7 | 32.7 | 37.4 | 44.9 | 43.0 | 50.5 | 58.9 | 58.9 | 58.9 | 60.8 |
| 85° | 16.8 | 18.7 | 15.0 | 19.6 | 25.2 | 24.3 | 28.0 | 31.8 | 32.7 | 32.7 | 30.8 |
| 87.5° | 10.3 | 8.4 | 4.7 | 7.5 | 11.2 | 11.2 | 13.1 | 14.0 | 13.1 | 13.1 | 13.1 |
| 90° | 15.1 | 10.5 | 5.8 | 10.5 | 15.1 | 16.4 | 25.7 | 38.1 | 44.3 | 39.4 | 29.5 |
| 92.5° | 102.6 | 62.9 | 23.3 | 62.9 | 102.6 | 112.5 | 158.2 | 219.0 | 249.5 | 218.6 | 157.0 |
| 95° | 201.1 | 128.5 | 56.0 | 128.5 | 201.1 | 219.2 | 389.2 | 616.0 | 729.4 | 650.8 | 493.8 |
| 97.5° | 224.8 | 160.8 | 96.7 | 160.8 | 224.8 | 240.8 | 524.3 | 902.4 | 1091.4 | 1041.7 | 942.5 |
| 100° | 244.3 | 186.3 | 128.2 | 186.3 | 244.3 | 258.8 | 573.4 | 992.9 | 1202.7 | 1206.3 | 1213.6 |
| 102.5° | 263.4 | 209.3 | 155.1 | 209.3 | 263.4 | 277.0 | 596.1 | 1021.4 | 1234.2 | 1297.4 | 1423.8 |
| 105° | 292.3 | 246.5 | 200.6 | 246.5 | 292.3 | 303.8 | 612.7 | 1024.6 | 1230.6 | 1372.3 | 1655.8 |
| 107.5° | 332.8 | 289.9 | 247.2 | 289.9 | 332.8 | 343.4 | 615.9 | 979.1 | 1160.7 | 1358.4 | 1753.8 |
| 110° | 355.9 | 317.2 | 278.6 | 317.2 | 355.9 | 365.6 | 611.2 | 938.6 | 1102.4 | 1323.5 | 1765.5 |



TEST NUMBER: P935935

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|
| 112.5° | 383.2 | 346.4 | 309.6 | 346.4 | 383.2 | 392.4 | 611.4 | 903.4 | 1049.4 | 1275.6 | 1728.0 |
| 115° | 424.1 | 390.1 | 356.2 | 390.1 | 424.1 | 432.6 | 617.0 | 862.9 | 985.8 | 1203.7 | 1639.6 |
| 117.5° | 464.0 | 433.1 | 402.3 | 433.1 | 464.0 | 471.7 | 628.5 | 837.6 | 942.1 | 1138.8 | 1532.1 |
| 120° | 487.1 | 458.1 | 429.0 | 458.1 | 487.1 | 494.4 | 637.7 | 829.0 | 924.6 | 1104.3 | 1463.7 |
| 122.5° | 513.9 | 484.6 | 455.3 | 484.6 | 513.9 | 521.2 | 651.2 | 824.6 | 911.2 | 1073.0 | 1396.6 |
| 125° | 549.0 | 522.2 | 495.6 | 522.2 | 549.0 | 555.6 | 669.2 | 820.9 | 896.7 | 1034.1 | 1309.0 |
| 127.5° | 582.0 | 555.1 | 528.2 | 555.1 | 582.0 | 588.8 | 687.3 | 818.7 | 884.4 | 1002.5 | 1238.5 |
| 130° | 603.6 | 574.7 | 545.7 | 574.7 | 603.6 | 610.9 | 700.6 | 820.0 | 879.7 | 984.8 | 1194.9 |
| 132.5° | 621.8 | 592.8 | 563.7 | 592.8 | 621.8 | 629.1 | 711.2 | 820.9 | 875.6 | 969.7 | 1157.8 |
| 135° | 643.4 | 617.0 | 590.5 | 617.0 | 643.4 | 650.0 | 722.9 | 820.0 | 868.6 | 947.4 | 1104.9 |
| 137.5° | 670.3 | 644.1 | 617.9 | 644.1 | 670.3 | 676.8 | 740.4 | 825.2 | 867.5 | 934.1 | 1067.2 |
| 140° | 689.0 | 664.9 | 640.7 | 664.9 | 689.0 | 695.0 | 751.1 | 826.0 | 863.4 | 920.9 | 1035.9 |
| 142.5° | 702.7 | 680.5 | 658.2 | 680.5 | 702.7 | 708.3 | 760.0 | 828.9 | 863.4 | 914.0 | 1015.0 |
| 145° | 723.8 | 704.5 | 685.0 | 704.5 | 723.8 | 728.7 | 771.7 | 829.0 | 857.6 | 898.9 | 981.5 |
| 147.5° | 749.6 | 730.8 | 711.8 | 730.8 | 749.6 | 754.4 | 788.8 | 834.7 | 857.6 | 890.1 | 955.1 |
| 150° | 763.5 | 746.5 | 729.4 | 746.5 | 763.5 | 767.8 | 797.7 | 837.6 | 857.6 | 885.1 | 939.9 |
| 152.5° | 773.3 | 760.4 | 747.4 | 760.4 | 773.3 | 776.6 | 803.6 | 839.6 | 857.6 | 881.1 | 928.0 |
| 155° | 793.4 | 783.8 | 774.2 | 783.8 | 793.4 | 795.8 | 816.4 | 843.9 | 857.6 | 876.3 | 913.6 |
| 157.5° | 812.6 | 803.4 | 794.0 | 803.4 | 812.6 | 815.0 | 829.2 | 848.2 | 857.6 | 872.1 | 901.1 |
| 160° | 822.0 | 814.7 | 807.4 | 814.7 | 822.0 | 823.8 | 835.1 | 850.1 | 857.6 | 870.0 | 894.9 |
| 162.5° | 831.7 | 826.3 | 820.9 | 826.3 | 831.7 | 833.1 | 841.2 | 852.2 | 857.6 | 868.1 | 889.1 |
| 165° | 845.3 | 840.3 | 835.4 | 840.3 | 845.3 | 846.5 | 850.2 | 855.2 | 857.6 | 865.1 | 880.1 |
| 167.5° | 853.5 | 851.1 | 848.8 | 851.1 | 853.5 | 854.0 | 857.1 | 861.3 | 863.4 | 868.3 | 878.2 |
| 170° | 862.3 | 859.9 | 857.6 | 859.9 | 862.3 | 862.8 | 863.0 | 863.3 | 863.4 | 868.3 | 878.2 |
| 172.5° | 863.3 | 862.7 | 862.3 | 862.7 | 863.3 | 863.4 | 863.4 | 863.4 | 863.4 | 867.3 | 875.1 |
| 175° | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 866.8 | 864.5 | 863.4 | 865.8 | 870.8 |
| 177.5° | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 867.3 | 865.5 | 864.6 | 866.6 | 870.4 |
| 180° | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 |



TEST NUMBER: P935935

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 |
| 2.5° | 953.5 | 950.7 | 954.4 | 944.1 | 954.4 | 950.7 | 953.5 | 960.0 | 954.4 | 958.2 | 961.9 |
| 5° | 836.7 | 832.0 | 817.0 | 804.9 | 817.0 | 832.0 | 836.7 | 856.3 | 865.6 | 882.5 | 904.9 |
| 7.5° | 747.9 | 744.1 | 740.4 | 732.9 | 740.4 | 744.1 | 747.9 | 753.5 | 762.8 | 777.8 | 794.6 |
| 10° | 728.2 | 729.2 | 734.8 | 733.8 | 734.8 | 729.2 | 728.2 | 726.4 | 723.6 | 726.4 | 736.6 |
| 12.5° | 778.7 | 787.1 | 818.0 | 816.1 | 818.0 | 787.1 | 778.7 | 741.3 | 716.1 | 711.4 | 713.3 |
| 15° | 836.7 | 839.5 | 846.0 | 846.9 | 846.0 | 839.5 | 836.7 | 821.7 | 746.0 | 713.3 | 703.0 |
| 17.5° | 842.3 | 843.2 | 847.9 | 847.9 | 847.9 | 843.2 | 842.3 | 835.7 | 810.5 | 766.6 | 708.6 |
| 20° | 837.6 | 839.5 | 848.8 | 850.7 | 848.8 | 839.5 | 837.6 | 829.2 | 815.2 | 799.3 | 755.3 |
| 22.5° | 835.7 | 839.5 | 846.9 | 846.0 | 846.9 | 839.5 | 835.7 | 822.6 | 810.5 | 799.3 | 781.5 |
| 25° | 826.4 | 826.4 | 827.3 | 828.2 | 827.3 | 826.4 | 826.4 | 816.1 | 791.8 | 789.0 | 778.7 |
| 27.5° | 806.7 | 808.6 | 814.2 | 813.3 | 814.2 | 808.6 | 806.7 | 803.0 | 776.8 | 774.0 | 766.6 |
| 30° | 789.0 | 787.1 | 782.4 | 778.7 | 782.4 | 787.1 | 789.0 | 783.4 | 757.2 | 749.7 | 751.6 |
| 32.5° | 759.1 | 754.4 | 749.7 | 746.9 | 749.7 | 754.4 | 759.1 | 757.2 | 737.6 | 727.3 | 729.2 |
| 35° | 723.6 | 724.5 | 723.6 | 720.8 | 723.6 | 724.5 | 723.6 | 725.4 | 713.3 | 703.9 | 703.0 |
| 37.5° | 698.3 | 700.2 | 699.3 | 695.5 | 699.3 | 700.2 | 698.3 | 696.4 | 679.6 | 676.8 | 678.7 |
| 40° | 672.1 | 673.1 | 672.1 | 669.3 | 672.1 | 673.1 | 672.1 | 668.4 | 645.0 | 646.0 | 652.5 |
| 42.5° | 646.9 | 646.0 | 643.2 | 641.3 | 643.2 | 646.0 | 646.9 | 641.3 | 611.4 | 608.6 | 620.7 |
| 45° | 617.9 | 618.9 | 613.3 | 610.5 | 613.3 | 618.9 | 617.9 | 614.2 | 583.4 | 575.9 | 584.3 |
| 47.5° | 589.0 | 589.0 | 584.3 | 581.5 | 584.3 | 589.0 | 589.0 | 584.3 | 551.6 | 544.1 | 548.8 |
| 50° | 558.1 | 557.2 | 550.6 | 549.7 | 550.6 | 557.2 | 558.1 | 555.3 | 520.7 | 514.2 | 514.2 |
| 52.5° | 522.6 | 522.6 | 523.5 | 525.4 | 523.5 | 522.6 | 522.6 | 523.5 | 492.7 | 486.1 | 484.3 |
| 55° | 491.7 | 492.7 | 499.2 | 501.1 | 499.2 | 492.7 | 491.7 | 491.7 | 463.7 | 457.2 | 453.4 |
| 57.5° | 460.0 | 460.0 | 464.6 | 464.6 | 464.6 | 460.0 | 460.0 | 458.1 | 431.0 | 425.4 | 423.5 |
| 60° | 423.5 | 425.4 | 429.1 | 428.2 | 429.1 | 425.4 | 423.5 | 421.6 | 398.3 | 394.5 | 388.0 |
| 62.5° | 385.2 | 387.1 | 388.0 | 386.1 | 388.0 | 387.1 | 385.2 | 379.6 | 365.6 | 362.8 | 354.3 |
| 65° | 345.0 | 346.9 | 347.8 | 345.9 | 347.8 | 346.9 | 345.0 | 342.2 | 331.8 | 327.1 | 319.7 |
| 67.5° | 303.8 | 302.8 | 301.9 | 305.6 | 301.9 | 302.8 | 303.8 | 300.0 | 293.5 | 289.8 | 279.5 |
| 70° | 261.7 | 261.7 | 260.8 | 262.7 | 260.8 | 261.7 | 261.7 | 258.9 | 255.2 | 252.4 | 243.0 |
| 72.5° | 216.9 | 215.9 | 219.7 | 216.9 | 219.7 | 215.9 | 216.9 | 215.9 | 214.0 | 211.2 | 201.9 |
| 75° | 172.9 | 174.8 | 172.9 | 175.7 | 172.9 | 174.8 | 172.9 | 173.9 | 172.9 | 171.1 | 164.5 |
| 77.5° | 131.8 | 133.7 | 131.8 | 131.8 | 131.8 | 133.7 | 131.8 | 132.7 | 132.7 | 132.7 | 127.1 |
| 80° | 93.5 | 92.5 | 92.5 | 91.6 | 92.5 | 92.5 | 93.5 | 93.5 | 94.4 | 92.5 | 90.7 |
| 82.5° | 59.8 | 58.9 | 58.9 | 60.8 | 58.9 | 58.9 | 59.8 | 60.8 | 58.9 | 58.9 | 58.9 |
| 85° | 32.7 | 33.6 | 31.8 | 31.8 | 31.8 | 33.6 | 32.7 | 30.8 | 32.7 | 32.7 | 31.8 |
| 87.5° | 12.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 12.2 | 13.1 | 13.1 | 13.1 | 14.0 |
| 90° | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 29.5 | 39.4 | 44.3 | 38.1 |
| 92.5° | 110.8 | 106.4 | 88.7 | 71.1 | 88.7 | 106.4 | 110.8 | 157.0 | 218.6 | 249.5 | 219.0 |
| 95° | 376.0 | 362.7 | 309.3 | 255.9 | 309.3 | 362.7 | 376.0 | 493.8 | 650.8 | 729.4 | 616.0 |
| 97.5° | 868.1 | 842.6 | 741.1 | 639.5 | 741.1 | 842.6 | 868.1 | 942.5 | 1041.7 | 1091.4 | 902.4 |
| 100° | 1219.0 | 1188.8 | 1067.8 | 946.8 | 1067.8 | 1188.8 | 1219.0 | 1213.6 | 1206.3 | 1202.7 | 992.9 |
| 102.5° | 1518.7 | 1492.8 | 1389.2 | 1285.5 | 1389.2 | 1492.8 | 1518.7 | 1423.8 | 1297.4 | 1234.2 | 1021.4 |
| 105° | 1868.5 | 1854.6 | 1798.8 | 1743.1 | 1798.8 | 1854.6 | 1868.5 | 1655.8 | 1372.3 | 1230.6 | 1024.6 |
| 107.5° | 2050.4 | 2053.7 | 2067.2 | 2080.7 | 2067.2 | 2053.7 | 2050.4 | 1753.8 | 1358.4 | 1160.7 | 979.1 |
| 110° | 2097.0 | 2111.5 | 2169.5 | 2227.6 | 2169.5 | 2111.5 | 2097.0 | 1765.5 | 1323.5 | 1102.4 | 938.6 |



TEST NUMBER: P935935

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 112.5° | 2067.3 | 2089.5 | 2178.7 | 2267.8 | 2178.7 | 2089.5 | 2067.3 | 1728.0 | 1275.6 | 1049.4 | 903.4 |
| 115° | 1966.4 | 1997.4 | 2120.9 | 2244.5 | 2120.9 | 1997.4 | 1966.4 | 1639.6 | 1203.7 | 985.8 | 862.9 |
| 117.5° | 1827.1 | 1861.4 | 1998.4 | 2135.4 | 1998.4 | 1861.4 | 1827.1 | 1532.1 | 1138.8 | 942.1 | 837.6 |
| 120° | 1733.2 | 1766.5 | 1899.7 | 2032.9 | 1899.7 | 1766.5 | 1733.2 | 1463.7 | 1104.3 | 924.6 | 829.0 |
| 122.5° | 1639.4 | 1672.2 | 1803.6 | 1934.9 | 1803.6 | 1672.2 | 1639.4 | 1396.6 | 1073.0 | 911.2 | 824.6 |
| 125° | 1515.2 | 1545.4 | 1666.4 | 1787.4 | 1666.4 | 1545.4 | 1515.2 | 1309.0 | 1034.1 | 896.7 | 820.9 |
| 127.5° | 1415.5 | 1441.0 | 1543.1 | 1645.2 | 1543.1 | 1441.0 | 1415.5 | 1238.5 | 1002.5 | 884.4 | 818.7 |
| 130° | 1352.5 | 1376.1 | 1470.4 | 1564.7 | 1470.4 | 1376.1 | 1352.5 | 1194.9 | 984.8 | 879.7 | 820.0 |
| 132.5° | 1298.9 | 1320.0 | 1404.4 | 1488.9 | 1404.4 | 1320.0 | 1298.9 | 1157.8 | 969.7 | 875.6 | 820.9 |
| 135° | 1223.1 | 1241.3 | 1314.1 | 1386.9 | 1314.1 | 1241.3 | 1223.1 | 1104.9 | 947.4 | 868.6 | 820.0 |
| 137.5° | 1167.2 | 1182.0 | 1241.7 | 1301.2 | 1241.7 | 1182.0 | 1167.2 | 1067.2 | 934.1 | 867.5 | 825.2 |
| 140° | 1122.2 | 1136.1 | 1191.8 | 1247.6 | 1191.8 | 1136.1 | 1122.2 | 1035.9 | 920.9 | 863.4 | 826.0 |
| 142.5° | 1090.8 | 1102.8 | 1150.7 | 1198.6 | 1150.7 | 1102.8 | 1090.8 | 1015.0 | 914.0 | 863.4 | 828.9 |
| 145° | 1043.5 | 1052.6 | 1088.9 | 1125.2 | 1088.9 | 1052.6 | 1043.5 | 981.5 | 898.9 | 857.6 | 829.0 |
| 147.5° | 1003.9 | 1011.4 | 1041.4 | 1071.5 | 1041.4 | 1011.4 | 1003.9 | 955.1 | 890.1 | 857.6 | 834.7 |
| 150° | 981.2 | 987.2 | 1011.6 | 1035.9 | 1011.6 | 987.2 | 981.2 | 939.9 | 885.1 | 857.6 | 837.6 |
| 152.5° | 963.1 | 967.7 | 986.1 | 1004.4 | 986.1 | 967.7 | 963.1 | 928.0 | 881.1 | 857.6 | 839.6 |
| 155° | 941.5 | 944.6 | 956.8 | 968.9 | 956.8 | 944.6 | 941.5 | 913.6 | 876.3 | 857.6 | 843.9 |
| 157.5° | 922.8 | 925.0 | 933.5 | 942.1 | 933.5 | 925.0 | 922.8 | 901.1 | 872.1 | 857.6 | 848.2 |
| 160° | 913.5 | 914.7 | 919.7 | 924.6 | 919.7 | 914.7 | 913.5 | 894.9 | 870.0 | 857.6 | 850.1 |
| 162.5° | 904.8 | 905.9 | 910.6 | 915.3 | 910.6 | 905.9 | 904.8 | 889.1 | 868.1 | 857.6 | 852.2 |
| 165° | 891.3 | 892.6 | 897.5 | 902.5 | 897.5 | 892.6 | 891.3 | 880.1 | 865.1 | 857.6 | 855.2 |
| 167.5° | 885.5 | 886.1 | 888.2 | 890.2 | 888.2 | 886.1 | 885.5 | 878.2 | 868.3 | 863.4 | 861.3 |
| 170° | 885.5 | 885.5 | 885.5 | 885.5 | 885.5 | 885.5 | 885.5 | 878.2 | 868.3 | 863.4 | 863.3 |
| 172.5° | 880.9 | 880.4 | 878.6 | 876.8 | 878.6 | 880.4 | 880.9 | 875.1 | 867.3 | 863.4 | 863.4 |
| 175° | 874.5 | 874.5 | 874.5 | 874.5 | 874.5 | 874.5 | 874.5 | 870.8 | 865.8 | 863.4 | 864.5 |
| 177.5° | 873.3 | 872.7 | 870.7 | 868.6 | 870.7 | 872.7 | 873.3 | 870.4 | 866.6 | 864.6 | 865.5 |
| 180° | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 |



TEST NUMBER: P935935

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 0° | 988.1 | 988.1 | 988.1 | 988.1 | 988.1 |
| 2.5° | 975.9 | 980.6 | 983.4 | 987.1 | 996.5 |
| 5° | 938.5 | 956.3 | 961.9 | 975.9 | 992.8 |
| 7.5° | 856.3 | 910.5 | 925.5 | 959.1 | 985.3 |
| 10° | 776.8 | 831.0 | 857.2 | 936.7 | 975.9 |
| 12.5° | 736.6 | 768.4 | 786.2 | 897.4 | 962.8 |
| 15° | 711.4 | 733.8 | 746.9 | 845.1 | 947.9 |
| 17.5° | 691.8 | 707.7 | 717.0 | 793.7 | 927.3 |
| 20° | 679.6 | 687.1 | 695.5 | 756.3 | 904.0 |
| 22.5° | 671.2 | 666.5 | 673.1 | 730.1 | 872.2 |
| 25° | 665.6 | 647.8 | 655.3 | 709.5 | 834.8 |
| 27.5° | 670.3 | 631.0 | 633.8 | 690.8 | 795.5 |
| 30° | 671.2 | 610.5 | 611.4 | 671.2 | 751.6 |
| 32.5° | 664.7 | 589.0 | 589.9 | 646.9 | 702.1 |
| 35° | 648.8 | 563.7 | 562.8 | 618.9 | 634.8 |
| 37.5° | 627.3 | 536.6 | 536.6 | 588.0 | 560.9 |
| 40° | 601.1 | 509.5 | 512.3 | 547.8 | 495.5 |
| 42.5° | 569.3 | 480.5 | 484.3 | 494.6 | 446.9 |
| 45° | 534.7 | 452.5 | 455.3 | 417.9 | 409.5 |
| 47.5° | 496.4 | 423.5 | 424.4 | 346.9 | 397.3 |
| 50° | 450.6 | 393.6 | 389.9 | 297.2 | 396.4 |
| 52.5° | 410.4 | 360.9 | 349.7 | 269.2 | 360.0 |
| 55° | 371.2 | 326.2 | 301.9 | 247.7 | 333.8 |
| 57.5° | 336.6 | 281.3 | 258.0 | 222.5 | 328.1 |
| 60° | 304.7 | 237.4 | 219.7 | 195.4 | 301.0 |
| 62.5° | 278.5 | 204.7 | 201.0 | 176.7 | 272.9 |
| 65° | 250.5 | 182.3 | 181.3 | 160.8 | 231.8 |
| 67.5° | 223.4 | 167.3 | 166.4 | 145.8 | 176.7 |
| 70° | 194.4 | 151.4 | 149.6 | 129.9 | 130.9 |
| 72.5° | 164.5 | 133.7 | 131.8 | 116.8 | 108.4 |
| 75° | 134.6 | 113.1 | 112.2 | 101.9 | 87.9 |
| 77.5° | 105.6 | 89.7 | 91.6 | 82.3 | 64.5 |
| 80° | 75.7 | 65.4 | 67.3 | 58.9 | 48.6 |
| 82.5° | 50.5 | 43.0 | 44.9 | 37.4 | 32.7 |
| 85° | 28.0 | 24.3 | 25.2 | 19.6 | 15.0 |
| 87.5° | 13.1 | 11.2 | 11.2 | 7.5 | 4.7 |
| 90° | 25.7 | 16.4 | 15.1 | 10.5 | 5.8 |
| 92.5° | 158.2 | 112.5 | 102.6 | 62.9 | 23.3 |
| 95° | 389.2 | 219.2 | 201.1 | 128.5 | 56.0 |
| 97.5° | 524.3 | 240.8 | 224.8 | 160.8 | 96.7 |
| 100° | 573.4 | 258.8 | 244.3 | 186.3 | 128.2 |
| 102.5° | 596.1 | 277.0 | 263.4 | 209.3 | 155.1 |
| 105° | 612.7 | 303.8 | 292.3 | 246.5 | 200.6 |
| 107.5° | 615.9 | 343.4 | 332.8 | 289.9 | 247.2 |
| 110° | 611.2 | 365.6 | 355.9 | 317.2 | 278.6 |



TEST NUMBER: P935935

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 611.4 | 392.4 | 383.2 | 346.4 | 309.6 |
| 115° | 617.0 | 432.6 | 424.1 | 390.1 | 356.2 |
| 117.5° | 628.5 | 471.7 | 464.0 | 433.1 | 402.3 |
| 120° | 637.7 | 494.4 | 487.1 | 458.1 | 429.0 |
| 122.5° | 651.2 | 521.2 | 513.9 | 484.6 | 455.3 |
| 125° | 669.2 | 555.6 | 549.0 | 522.2 | 495.6 |
| 127.5° | 687.3 | 588.8 | 582.0 | 555.1 | 528.2 |
| 130° | 700.6 | 610.9 | 603.6 | 574.7 | 545.7 |
| 132.5° | 711.2 | 629.1 | 621.8 | 592.8 | 563.7 |
| 135° | 722.9 | 650.0 | 643.4 | 617.0 | 590.5 |
| 137.5° | 740.4 | 676.8 | 670.3 | 644.1 | 617.9 |
| 140° | 751.1 | 695.0 | 689.0 | 664.9 | 640.7 |
| 142.5° | 760.0 | 708.3 | 702.7 | 680.5 | 658.2 |
| 145° | 771.7 | 728.7 | 723.8 | 704.5 | 685.0 |
| 147.5° | 788.8 | 754.4 | 749.6 | 730.8 | 711.8 |
| 150° | 797.7 | 767.8 | 763.5 | 746.5 | 729.4 |
| 152.5° | 803.6 | 776.6 | 773.3 | 760.4 | 747.4 |
| 155° | 816.4 | 795.8 | 793.4 | 783.8 | 774.2 |
| 157.5° | 829.2 | 815.0 | 812.6 | 803.4 | 794.0 |
| 160° | 835.1 | 823.8 | 822.0 | 814.7 | 807.4 |
| 162.5° | 841.2 | 833.1 | 831.7 | 826.3 | 820.9 |
| 165° | 850.2 | 846.5 | 845.3 | 840.3 | 835.4 |
| 167.5° | 857.1 | 854.0 | 853.5 | 851.1 | 848.8 |
| 170° | 863.0 | 862.8 | 862.3 | 859.9 | 857.6 |
| 172.5° | 863.4 | 863.4 | 863.3 | 862.7 | 862.3 |
| 175° | 866.8 | 868.6 | 868.6 | 868.6 | 868.6 |
| 177.5° | 867.3 | 868.6 | 868.6 | 868.6 | 868.6 |
| 180° | 868.6 | 868.6 | 868.6 | 868.6 | 868.6 |



TEST NUMBER: P935935
 CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-5000K

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 | 10.45 | 11.17 | 11.56 | 12.27 | 13.78 | 13.25 | 13.97 | 14.35 | 15.06 | 16.58 |
| | 3H | 10.92 | 11.56 | 12.03 | 12.67 | 14.20 | 14.57 | 15.21 | 15.69 | 16.32 | 17.85 |
| | 4H | 11.10 | 11.71 | 12.22 | 12.82 | 14.36 | 15.00 | 15.61 | 16.13 | 16.72 | 18.26 |
| | 6H | 11.21 | 11.77 | 12.34 | 12.88 | 14.43 | 15.27 | 15.83 | 16.40 | 16.94 | 18.49 |
| | 8H | 11.21 | 11.74 | 12.34 | 12.87 | 14.41 | 15.34 | 15.87 | 16.47 | 17.00 | 18.54 |
| | 12H | 11.18 | 11.68 | 12.32 | 12.80 | 14.37 | 15.37 | 15.87 | 16.51 | 16.99 | 18.56 |
| 4H | 2H | 11.46 | 12.07 | 12.59 | 13.18 | 14.71 | 13.64 | 14.25 | 14.77 | 15.36 | 16.90 |
| | 3H | 12.47 | 12.98 | 13.61 | 14.11 | 15.66 | 15.12 | 15.63 | 16.26 | 16.77 | 18.32 |
| | 4H | 12.74 | 13.21 | 13.88 | 14.33 | 15.90 | 15.64 | 16.10 | 16.78 | 17.23 | 18.80 |
| | 6H | 12.86 | 13.26 | 14.00 | 14.40 | 15.97 | 15.99 | 16.39 | 17.13 | 17.53 | 19.10 |
| | 8H | 12.86 | 13.23 | 14.01 | 14.37 | 15.95 | 16.09 | 16.46 | 17.23 | 17.60 | 19.18 |
| | 12H | 12.82 | 13.16 | 13.98 | 14.31 | 15.89 | 16.13 | 16.47 | 17.29 | 17.62 | 19.20 |
| 8H | 4H | 13.18 | 13.55 | 14.32 | 14.69 | 16.27 | 15.75 | 16.13 | 16.90 | 17.26 | 18.84 |
| | 6H | 13.43 | 13.74 | 14.60 | 14.92 | 16.50 | 16.17 | 16.48 | 17.34 | 17.66 | 19.24 |
| | 8H | 13.47 | 13.74 | 14.65 | 14.90 | 16.50 | 16.32 | 16.59 | 17.49 | 17.75 | 19.34 |
| | 12H | 13.45 | 13.69 | 14.63 | 14.84 | 16.47 | 16.41 | 16.64 | 17.58 | 17.80 | 19.43 |
| 12H | 4H | 13.18 | 13.51 | 14.34 | 14.66 | 16.25 | 15.71 | 16.05 | 16.87 | 17.20 | 18.78 |
| | 6H | 13.49 | 13.76 | 14.66 | 14.92 | 16.52 | 16.17 | 16.44 | 17.34 | 17.60 | 19.19 |
| | 8H | 13.55 | 13.79 | 14.73 | 14.94 | 16.57 | 16.32 | 16.56 | 17.49 | 17.71 | 19.34 |