

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: P933983

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P933983  
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

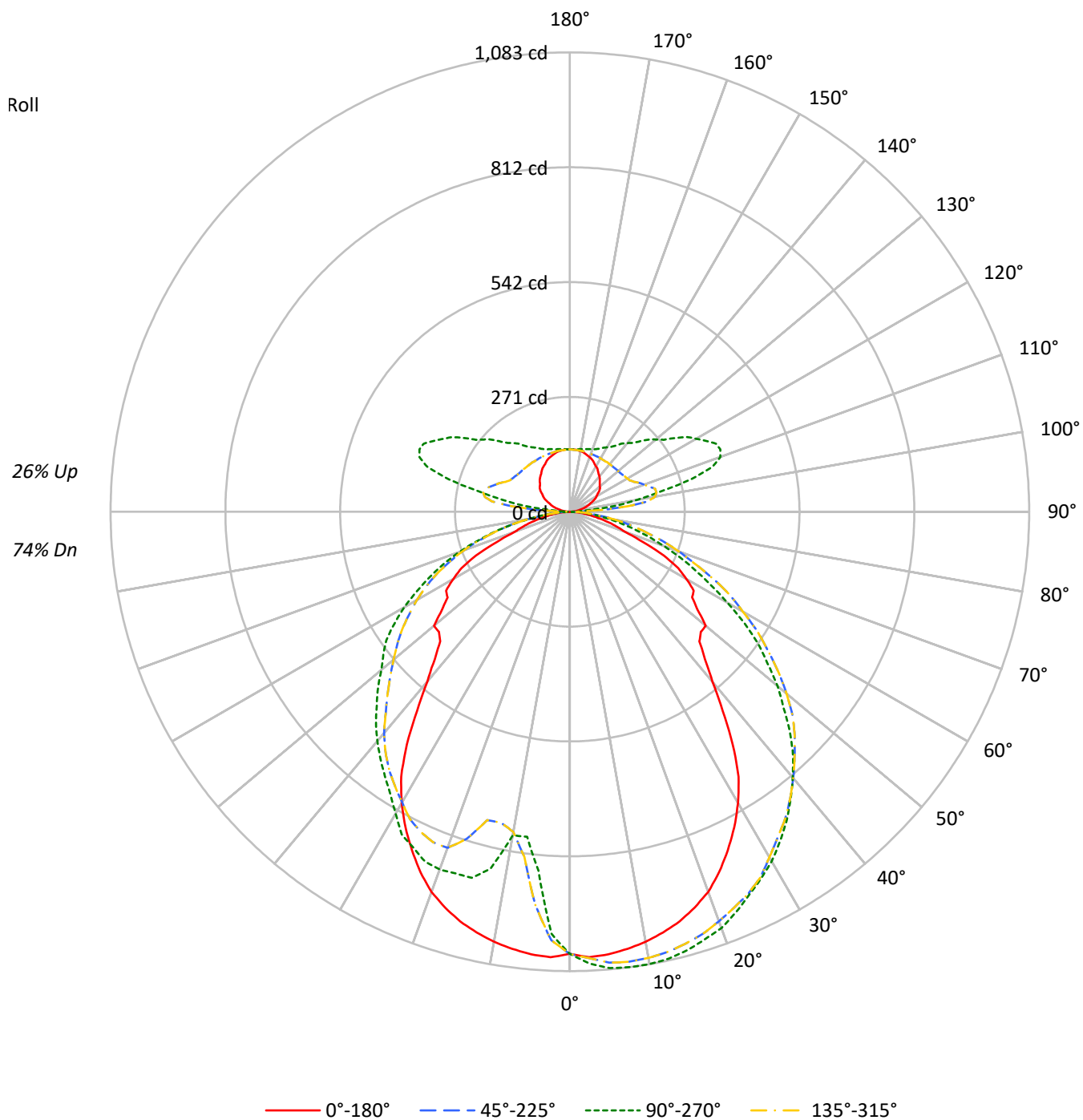
Lumens per Lamp: N/A  
Luminaire Lumens: 3657.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 30  
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: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |    | 50 |    |    |    |    | 30 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 97 | 97 | 97 | 87 | 87 | 87 | 78 | 78 | 78 | 74 |    |    |
| 1   | 103 | 99  | 95  | 91  | 98  | 94  | 90  | 87  | 85 | 82 | 80 | 77 | 75 | 73 | 69 | 68 | 66 | 62 |    |    |
| 2   | 94  | 86  | 80  | 75  | 89  | 82  | 77  | 72  | 75 | 70 | 66 | 68 | 64 | 61 | 61 | 58 | 56 | 52 |    |    |
| 3   | 86  | 76  | 68  | 62  | 81  | 72  | 66  | 60  | 66 | 60 | 56 | 60 | 55 | 52 | 54 | 51 | 48 | 44 |    |    |
| 4   | 79  | 67  | 59  | 53  | 74  | 64  | 57  | 51  | 59 | 52 | 48 | 53 | 48 | 44 | 48 | 44 | 41 | 38 |    |    |
| 5   | 72  | 60  | 52  | 45  | 68  | 57  | 50  | 44  | 52 | 46 | 41 | 48 | 43 | 38 | 43 | 39 | 36 | 33 |    |    |
| 6   | 67  | 54  | 46  | 39  | 63  | 52  | 44  | 38  | 47 | 41 | 36 | 43 | 38 | 34 | 39 | 35 | 31 | 29 |    |    |
| 7   | 62  | 49  | 41  | 35  | 58  | 47  | 39  | 34  | 43 | 36 | 32 | 39 | 34 | 30 | 36 | 31 | 28 | 26 |    |    |
| 8   | 57  | 44  | 36  | 31  | 54  | 43  | 35  | 30  | 39 | 33 | 28 | 36 | 31 | 27 | 33 | 28 | 25 | 23 |    |    |
| 9   | 53  | 41  | 33  | 28  | 51  | 39  | 32  | 27  | 36 | 30 | 25 | 33 | 28 | 24 | 30 | 26 | 23 | 21 |    |    |
| 10  | 50  | 37  | 30  | 25  | 48  | 36  | 29  | 24  | 33 | 27 | 23 | 31 | 25 | 22 | 28 | 24 | 20 | 19 |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 9672 | 9672 | 9672 | 9672 |
| 5°  | 9733 | 9764 | 9733 | 7677 |
| 10° | 9658 | 9618 | 9658 | 6876 |
| 15° | 9542 | 9410 | 9542 | 7857 |
| 20° | 9332 | 9162 | 9332 | 7873 |
| 25° | 8912 | 8802 | 8912 | 7706 |
| 30° | 8374 | 8503 | 8374 | 7340 |
| 35° | 7455 | 8126 | 7455 | 6938 |
| 40° | 6201 | 7680 | 6201 | 6634 |
| 45° | 5531 | 7159 | 5531 | 6284 |
| 50° | 5862 | 6538 | 5862 | 5933 |
| 55° | 5500 | 5869 | 5500 | 5730 |
| 60° | 5648 | 4985 | 5648 | 5248 |
| 65° | 5095 | 4120 | 5095 | 4606 |
| 70° | 3503 | 3284 | 3503 | 3860 |
| 75° | 3040 | 2427 | 3040 | 2907 |
| 80° | 2401 | 1604 | 2401 | 1747 |
| 85° | 1308 | 849  | 1308 | 722  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8492 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.1   | 2.6       |
| 10°-20°   | 267.1  | 7.3       |
| 20°-30°   | 413.0  | 11.3      |
| 30°-40°   | 493.0  | 13.5      |
| 40°-50°   | 495.9  | 13.6      |
| 50°-60°   | 431.5  | 11.8      |
| 60°-70°   | 305.9  | 8.4       |
| 70°-80°   | 161.8  | 4.4       |
| 80°-90°   | 40.9   | 1.1       |
| 90°-100°  | 71.7   | 2.0       |
| 100°-110° | 188.6  | 5.2       |
| 110°-120° | 195.5  | 5.3       |
| 120°-130° | 156.8  | 4.3       |
| 130°-140° | 123.1  | 3.4       |
| 140°-150° | 94.5   | 2.6       |
| 150°-160° | 68.0   | 1.9       |
| 160°-170° | 41.6   | 1.1       |
| 170°-180° | 14.1   | 0.4       |
| 0°-30°    | 774.2  | 21.2      |
| 0°-40°    | 1267.2 | 34.7      |
| 0°-60°    | 2194.5 | 60.0      |
| 0°-90°    | 2703.1 | 73.9      |
| 90°-120°  | 455.8  | 12.5      |
| 90°-150°  | 830.2  | 22.7      |
| 90°-180°  | 954.0  | 26.1      |
| 0°-180°   | 3657.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1042 | 1042 | 1042 | 1042 | 1042 |      |
| 5°   | 1047 | 1080 | 1047 | 849  | 1047 | 99   |
| 15°  | 1000 | 1070 | 1000 | 893  | 1000 | 281  |
| 25°  | 881  | 998  | 881  | 874  | 881  | 404  |
| 35°  | 670  | 890  | 670  | 760  | 670  | 414  |
| 45°  | 432  | 734  | 432  | 644  | 432  | 346  |
| 55°  | 352  | 541  | 352  | 529  | 352  | 324  |
| 65°  | 244  | 326  | 244  | 365  | 244  | 234  |
| 75°  | 93   | 155  | 93   | 185  | 93   | 97   |
| 85°  | 16   | 39   | 16   | 34   | 16   | 21   |
| 90°  | 1    | 4    | 1    | 4    | 1    | 1    |
| 95°  | 10   | 43   | 10   | 43   | 10   | 11   |
| 105° | 34   | 295  | 34   | 295  | 34   | 36   |
| 115° | 60   | 380  | 60   | 380  | 60   | 60   |
| 125° | 84   | 303  | 84   | 303  | 84   | 74   |
| 135° | 100  | 235  | 100  | 235  | 100  | 77   |
| 145° | 116  | 191  | 116  | 191  | 116  | 73   |
| 155° | 131  | 164  | 131  | 164  | 131  | 60   |
| 165° | 142  | 153  | 142  | 153  | 142  | 40   |
| 175° | 147  | 148  | 147  | 148  | 147  | 14   |
| 180° | 147  | 147  | 147  | 147  | 147  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 |
| 2.5°   | 1051.2 | 1051.2 | 1057.2 | 1059.2 | 1059.2 | 1056.2 | 1053.2 | 1056.2 | 1065.1 | 1068.0 | 1067.0 |
| 5°     | 1047.2 | 1055.2 | 1066.1 | 1068.0 | 1070.0 | 1069.0 | 1067.0 | 1069.0 | 1078.9 | 1080.9 | 1081.8 |
| 7.5°   | 1039.3 | 1054.2 | 1068.0 | 1071.0 | 1074.0 | 1071.0 | 1070.0 | 1072.0 | 1081.8 | 1083.8 | 1083.8 |
| 10°    | 1029.5 | 1050.2 | 1066.1 | 1068.0 | 1071.0 | 1068.0 | 1068.0 | 1072.0 | 1081.8 | 1083.8 | 1084.8 |
| 12.5°  | 1015.7 | 1044.3 | 1059.2 | 1061.1 | 1065.1 | 1064.1 | 1063.1 | 1067.0 | 1076.9 | 1078.9 | 1078.9 |
| 15°    | 999.9  | 1033.4 | 1047.2 | 1049.2 | 1056.2 | 1054.2 | 1054.2 | 1058.2 | 1069.0 | 1072.0 | 1071.0 |
| 17.5°  | 978.2  | 1019.6 | 1035.4 | 1038.4 | 1043.3 | 1042.3 | 1043.3 | 1047.2 | 1057.2 | 1059.2 | 1060.1 |
| 20°    | 953.6  | 1000.9 | 1019.6 | 1022.6 | 1027.5 | 1027.5 | 1027.5 | 1032.4 | 1042.3 | 1046.2 | 1046.2 |
| 22.5°  | 920.0  | 981.2  | 1000.9 | 1002.9 | 1008.8 | 1008.8 | 1010.7 | 1017.7 | 1026.5 | 1027.5 | 1027.5 |
| 25°    | 880.6  | 959.5  | 976.2  | 982.2  | 988.1  | 991.0  | 994.0  | 997.9  | 1000.9 | 999.9  | 1000.9 |
| 27.5°  | 839.2  | 931.9  | 953.6  | 957.5  | 965.4  | 968.4  | 972.3  | 973.3  | 974.3  | 977.2  | 975.3  |
| 30°    | 792.8  | 893.4  | 926.0  | 929.9  | 942.7  | 944.7  | 940.7  | 942.7  | 947.6  | 949.6  | 951.6  |
| 32.5°  | 740.6  | 836.2  | 897.4  | 906.2  | 918.1  | 912.1  | 911.2  | 914.1  | 922.0  | 922.0  | 924.0  |
| 35°    | 669.6  | 791.9  | 870.7  | 878.6  | 887.5  | 880.6  | 884.5  | 885.5  | 890.5  | 893.4  | 892.4  |
| 37.5°  | 591.7  | 753.4  | 843.1  | 849.0  | 855.9  | 847.1  | 853.0  | 855.9  | 859.9  | 857.9  | 857.9  |
| 40°    | 522.7  | 693.3  | 810.6  | 814.5  | 820.5  | 813.5  | 819.5  | 821.4  | 823.4  | 821.4  | 820.5  |
| 42.5°  | 471.4  | 627.2  | 776.1  | 781.0  | 777.1  | 782.0  | 784.0  | 787.9  | 785.0  | 781.0  | 781.0  |
| 45°    | 432.0  | 609.4  | 738.6  | 744.5  | 738.6  | 746.5  | 749.5  | 749.5  | 740.6  | 738.6  | 737.6  |
| 47.5°  | 419.1  | 574.0  | 701.1  | 701.1  | 698.2  | 708.0  | 713.0  | 706.1  | 697.2  | 694.2  | 694.2  |
| 50°    | 418.2  | 534.5  | 649.9  | 645.9  | 659.7  | 671.6  | 666.6  | 659.7  | 652.8  | 642.0  | 642.0  |
| 52.5°  | 379.7  | 486.2  | 583.8  | 598.6  | 620.3  | 627.2  | 619.3  | 612.4  | 600.6  | 595.6  | 591.7  |
| 55°    | 352.1  | 435.9  | 523.7  | 553.2  | 575.9  | 584.8  | 570.0  | 563.1  | 545.4  | 542.4  | 540.4  |
| 57.5°  | 346.1  | 362.9  | 468.4  | 505.9  | 533.5  | 532.5  | 523.7  | 510.8  | 496.1  | 493.1  | 492.1  |
| 60°    | 317.5  | 262.3  | 409.3  | 453.7  | 482.3  | 479.3  | 471.4  | 459.6  | 445.8  | 443.8  | 441.8  |
| 62.5°  | 287.9  | 190.3  | 342.1  | 392.5  | 433.0  | 432.0  | 425.1  | 407.3  | 397.5  | 392.5  | 388.6  |
| 65°    | 244.5  | 159.7  | 243.5  | 326.4  | 384.6  | 386.6  | 371.8  | 359.0  | 348.1  | 342.1  | 341.2  |
| 67.5°  | 186.4  | 130.2  | 164.7  | 272.1  | 338.2  | 336.2  | 317.5  | 311.6  | 297.8  | 294.8  | 288.9  |
| 70°    | 138.0  | 86.8   | 114.4  | 220.9  | 292.8  | 287.9  | 273.1  | 266.2  | 253.4  | 246.5  | 242.6  |
| 72.5°  | 114.4  | 70.0   | 83.8   | 171.6  | 246.5  | 240.6  | 227.8  | 219.9  | 209.0  | 203.1  | 199.2  |
| 75°    | 92.7   | 74.0   | 64.1   | 127.2  | 200.2  | 196.2  | 184.4  | 176.5  | 167.6  | 159.7  | 160.7  |
| 77.5°  | 68.0   | 69.0   | 51.3   | 93.7   | 158.7  | 152.8  | 145.9  | 136.1  | 132.1  | 124.2  | 124.2  |
| 80°    | 51.3   | 54.2   | 38.5   | 64.1   | 114.4  | 114.4  | 108.5  | 101.6  | 94.7   | 90.7   | 90.7   |
| 82.5°  | 34.5   | 34.5   | 28.6   | 40.4   | 77.9   | 74.9   | 71.0   | 69.0   | 65.1   | 63.1   | 63.1   |
| 85°    | 15.8   | 19.7   | 17.7   | 24.6   | 42.4   | 44.4   | 44.4   | 42.4   | 41.4   | 39.4   | 40.4   |
| 87.5°  | 4.9    | 8.9    | 10.8   | 13.8   | 21.7   | 22.7   | 23.7   | 23.7   | 23.7   | 24.6   | 24.6   |
| 90°    | 1.0    | 1.8    | 2.6    | 2.8    | 4.3    | 6.4    | 7.5    | 6.7    | 5.0    | 3.7    | 3.7    |
| 92.5°  | 3.9    | 10.6   | 17.4   | 19.0   | 26.8   | 37.2   | 42.3   | 37.1   | 26.6   | 18.7   | 17.9   |
| 95°    | 9.5    | 21.8   | 34.1   | 37.2   | 66.0   | 104.3  | 123.5  | 110.2  | 83.6   | 63.7   | 61.4   |
| 97.5°  | 16.4   | 27.2   | 38.1   | 40.8   | 88.8   | 152.8  | 184.9  | 176.5  | 159.6  | 147.0  | 142.7  |
| 100°   | 21.7   | 31.6   | 41.4   | 43.9   | 97.1   | 168.2  | 203.7  | 204.3  | 205.6  | 206.5  | 201.3  |
| 102.5° | 26.2   | 35.4   | 44.7   | 46.9   | 101.0  | 173.0  | 209.0  | 219.8  | 241.2  | 257.2  | 252.8  |
| 105°   | 34.0   | 41.8   | 49.5   | 51.5   | 103.8  | 173.5  | 208.4  | 232.5  | 280.5  | 316.5  | 314.1  |
| 107.5° | 41.9   | 49.1   | 56.4   | 58.2   | 104.3  | 165.8  | 196.6  | 230.1  | 297.1  | 347.4  | 348.0  |
| 110°   | 47.2   | 53.7   | 60.2   | 61.9   | 103.5  | 159.0  | 186.7  | 224.2  | 299.1  | 355.3  | 357.7  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 52.5  | 58.7  | 64.9  | 66.5  | 103.5 | 153.0 | 177.8 | 216.1 | 292.7 | 350.2 | 354.0 |
| 115°   | 60.3  | 66.1  | 71.8  | 73.3  | 104.5 | 146.2 | 167.0 | 203.9 | 277.8 | 333.1 | 338.3 |
| 117.5° | 68.1  | 73.4  | 78.6  | 79.9  | 106.5 | 141.9 | 159.6 | 193.0 | 259.5 | 309.5 | 315.3 |
| 120°   | 72.7  | 77.6  | 82.5  | 83.7  | 108.0 | 140.4 | 156.6 | 187.0 | 248.0 | 293.6 | 299.3 |
| 122.5° | 77.1  | 82.0  | 87.0  | 88.2  | 110.2 | 139.6 | 154.3 | 181.7 | 236.5 | 277.7 | 283.2 |
| 125°   | 83.9  | 88.4  | 93.0  | 94.2  | 113.4 | 139.0 | 151.8 | 175.1 | 221.8 | 256.7 | 261.8 |
| 127.5° | 89.4  | 94.1  | 98.6  | 99.8  | 116.4 | 138.6 | 149.8 | 169.8 | 209.8 | 239.8 | 244.1 |
| 130°   | 92.4  | 97.3  | 102.2 | 103.5 | 118.7 | 138.9 | 149.0 | 166.8 | 202.4 | 229.1 | 233.1 |
| 132.5° | 95.5  | 100.5 | 105.4 | 106.6 | 120.5 | 139.0 | 148.3 | 164.3 | 196.1 | 220.1 | 223.6 |
| 135°   | 100.1 | 104.5 | 109.1 | 110.1 | 122.5 | 138.9 | 147.1 | 160.4 | 187.1 | 207.2 | 210.2 |
| 137.5° | 104.7 | 109.2 | 113.6 | 114.7 | 125.4 | 139.7 | 146.9 | 158.2 | 180.7 | 197.7 | 200.3 |
| 140°   | 108.6 | 112.6 | 116.7 | 117.7 | 127.2 | 139.9 | 146.2 | 156.0 | 175.5 | 190.1 | 192.5 |
| 142.5° | 111.5 | 115.3 | 119.0 | 120.0 | 128.8 | 140.4 | 146.2 | 154.8 | 172.0 | 184.8 | 186.8 |
| 145°   | 116.1 | 119.3 | 122.7 | 123.4 | 130.7 | 140.4 | 145.2 | 152.2 | 166.2 | 176.8 | 178.4 |
| 147.5° | 120.6 | 123.7 | 127.0 | 127.8 | 133.6 | 141.4 | 145.2 | 150.8 | 161.8 | 170.1 | 171.4 |
| 150°   | 123.5 | 126.4 | 129.4 | 130.1 | 135.1 | 141.9 | 145.2 | 149.9 | 159.2 | 166.2 | 167.2 |
| 152.5° | 126.6 | 128.8 | 130.9 | 131.5 | 136.1 | 142.2 | 145.2 | 149.2 | 157.2 | 163.2 | 164.0 |
| 155°   | 131.1 | 132.7 | 134.4 | 134.8 | 138.2 | 142.9 | 145.2 | 148.4 | 154.8 | 159.5 | 160.0 |
| 157.5° | 134.5 | 136.1 | 137.6 | 138.0 | 140.4 | 143.7 | 145.2 | 147.7 | 152.6 | 156.3 | 156.7 |
| 160°   | 136.8 | 137.9 | 139.2 | 139.5 | 141.4 | 144.0 | 145.2 | 147.3 | 151.5 | 154.7 | 154.9 |
| 162.5° | 139.0 | 139.9 | 140.9 | 141.1 | 142.5 | 144.4 | 145.2 | 147.0 | 150.6 | 153.2 | 153.4 |
| 165°   | 141.5 | 142.3 | 143.2 | 143.4 | 144.0 | 144.8 | 145.2 | 146.5 | 149.1 | 151.0 | 151.2 |
| 167.5° | 143.8 | 144.2 | 144.5 | 144.6 | 145.1 | 145.8 | 146.2 | 147.0 | 148.7 | 150.0 | 150.1 |
| 170°   | 145.2 | 145.6 | 146.0 | 146.1 | 146.1 | 146.2 | 146.2 | 147.0 | 148.7 | 150.0 | 150.0 |
| 172.5° | 146.0 | 146.1 | 146.2 | 146.2 | 146.2 | 146.2 | 146.2 | 146.9 | 148.2 | 149.2 | 149.1 |
| 175°   | 147.1 | 147.1 | 147.1 | 147.1 | 146.8 | 146.4 | 146.2 | 146.6 | 147.5 | 148.1 | 148.1 |
| 177.5° | 147.1 | 147.1 | 147.1 | 147.1 | 146.9 | 146.6 | 146.4 | 146.7 | 147.4 | 147.9 | 147.8 |
| 180°   | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 |

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CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 |
| 2.5°   | 1069.0 | 1066.1 | 1069.0 | 1067.0 | 1068.0 | 1065.1 | 1056.2 | 1053.2 | 1056.2 | 1059.2 | 1059.2 |
| 5°     | 1081.8 | 1079.9 | 1081.8 | 1081.8 | 1080.9 | 1078.9 | 1069.0 | 1067.0 | 1069.0 | 1070.0 | 1068.0 |
| 7.5°   | 1085.8 | 1082.8 | 1085.8 | 1083.8 | 1083.8 | 1081.8 | 1072.0 | 1070.0 | 1071.0 | 1074.0 | 1071.0 |
| 10°    | 1085.8 | 1082.8 | 1085.8 | 1084.8 | 1083.8 | 1081.8 | 1072.0 | 1068.0 | 1068.0 | 1071.0 | 1068.0 |
| 12.5°  | 1080.9 | 1078.9 | 1080.9 | 1078.9 | 1078.9 | 1076.9 | 1067.0 | 1063.1 | 1064.1 | 1065.1 | 1061.1 |
| 15°    | 1073.0 | 1070.0 | 1073.0 | 1071.0 | 1072.0 | 1069.0 | 1058.2 | 1054.2 | 1054.2 | 1056.2 | 1049.2 |
| 17.5°  | 1061.1 | 1057.2 | 1061.1 | 1060.1 | 1059.2 | 1057.2 | 1047.2 | 1043.3 | 1042.3 | 1043.3 | 1038.4 |
| 20°    | 1047.2 | 1044.3 | 1047.2 | 1046.2 | 1046.2 | 1042.3 | 1032.4 | 1027.5 | 1027.5 | 1027.5 | 1022.6 |
| 22.5°  | 1025.5 | 1022.6 | 1025.5 | 1027.5 | 1027.5 | 1026.5 | 1017.7 | 1010.7 | 1008.8 | 1008.8 | 1002.9 |
| 25°    | 1000.9 | 997.9  | 1000.9 | 1000.9 | 999.9  | 1000.9 | 997.9  | 994.0  | 991.0  | 988.1  | 982.2  |
| 27.5°  | 977.2  | 975.3  | 977.2  | 975.3  | 977.2  | 974.3  | 973.3  | 972.3  | 968.4  | 965.4  | 957.5  |
| 30°    | 953.6  | 951.6  | 953.6  | 951.6  | 949.6  | 947.6  | 942.7  | 940.7  | 944.7  | 942.7  | 929.9  |
| 32.5°  | 924.0  | 922.0  | 924.0  | 924.0  | 922.0  | 922.0  | 914.1  | 911.2  | 912.1  | 918.1  | 906.2  |
| 35°    | 893.4  | 890.5  | 893.4  | 892.4  | 893.4  | 890.5  | 885.5  | 884.5  | 880.6  | 887.5  | 878.6  |
| 37.5°  | 857.9  | 855.0  | 857.9  | 857.9  | 857.9  | 859.9  | 855.9  | 853.0  | 847.1  | 855.9  | 849.0  |
| 40°    | 821.4  | 817.5  | 821.4  | 820.5  | 821.4  | 823.4  | 821.4  | 819.5  | 813.5  | 820.5  | 814.5  |
| 42.5°  | 780.0  | 779.0  | 780.0  | 781.0  | 781.0  | 785.0  | 787.9  | 784.0  | 782.0  | 777.1  | 781.0  |
| 45°    | 735.7  | 733.7  | 735.7  | 737.6  | 738.6  | 740.6  | 749.5  | 749.5  | 746.5  | 738.6  | 744.5  |
| 47.5°  | 688.3  | 683.4  | 688.3  | 694.2  | 694.2  | 697.2  | 706.1  | 713.0  | 708.0  | 698.2  | 701.1  |
| 50°    | 638.0  | 639.0  | 638.0  | 642.0  | 642.0  | 652.8  | 659.7  | 666.6  | 671.6  | 659.7  | 645.9  |
| 52.5°  | 588.7  | 587.8  | 588.7  | 591.7  | 595.6  | 600.6  | 612.4  | 619.3  | 627.2  | 620.3  | 598.6  |
| 55°    | 539.4  | 541.4  | 539.4  | 540.4  | 542.4  | 545.4  | 563.1  | 570.0  | 584.8  | 575.9  | 553.2  |
| 57.5°  | 490.1  | 487.2  | 490.1  | 492.1  | 493.1  | 496.1  | 510.8  | 523.7  | 532.5  | 533.5  | 505.9  |
| 60°    | 433.0  | 429.0  | 433.0  | 441.8  | 443.8  | 445.8  | 459.6  | 471.4  | 479.3  | 482.3  | 453.7  |
| 62.5°  | 382.7  | 375.8  | 382.7  | 388.6  | 392.5  | 397.5  | 407.3  | 425.1  | 432.0  | 433.0  | 392.5  |
| 65°    | 329.3  | 326.4  | 329.3  | 341.2  | 342.1  | 348.1  | 359.0  | 371.8  | 386.6  | 384.6  | 326.4  |
| 67.5°  | 281.0  | 281.0  | 281.0  | 288.9  | 294.8  | 297.8  | 311.6  | 317.5  | 336.2  | 338.2  | 272.1  |
| 70°    | 236.6  | 235.7  | 236.6  | 242.6  | 246.5  | 253.4  | 266.2  | 273.1  | 287.9  | 292.8  | 220.9  |
| 72.5°  | 194.2  | 193.3  | 194.2  | 199.2  | 203.1  | 209.0  | 219.9  | 227.8  | 240.6  | 246.5  | 171.6  |
| 75°    | 156.8  | 154.8  | 156.8  | 160.7  | 159.7  | 167.6  | 176.5  | 184.4  | 196.2  | 200.2  | 127.2  |
| 77.5°  | 120.3  | 120.3  | 120.3  | 124.2  | 124.2  | 132.1  | 136.1  | 145.9  | 152.8  | 158.7  | 93.7   |
| 80°    | 89.7   | 88.7   | 89.7   | 90.7   | 90.7   | 94.7   | 101.6  | 108.5  | 114.4  | 114.4  | 64.1   |
| 82.5°  | 63.1   | 61.1   | 63.1   | 63.1   | 63.1   | 65.1   | 69.0   | 71.0   | 74.9   | 77.9   | 40.4   |
| 85°    | 39.4   | 39.4   | 39.4   | 40.4   | 39.4   | 41.4   | 42.4   | 44.4   | 44.4   | 42.4   | 24.6   |
| 87.5°  | 25.6   | 24.6   | 25.6   | 24.6   | 24.6   | 23.7   | 23.7   | 23.7   | 22.7   | 21.7   | 13.8   |
| 90°    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 5.0    | 6.7    | 7.5    | 6.4    | 4.3    | 2.8    |
| 92.5°  | 15.0   | 12.0   | 15.0   | 17.9   | 18.7   | 26.6   | 37.1   | 42.3   | 37.2   | 26.8   | 19.0   |
| 95°    | 52.5   | 43.4   | 52.5   | 61.4   | 63.7   | 83.6   | 110.2  | 123.5  | 104.3  | 66.0   | 37.2   |
| 97.5°  | 125.5  | 108.4  | 125.5  | 142.7  | 147.0  | 159.6  | 176.5  | 184.9  | 152.8  | 88.8   | 40.8   |
| 100°   | 180.9  | 160.4  | 180.9  | 201.3  | 206.5  | 205.6  | 204.3  | 203.7  | 168.2  | 97.1   | 43.9   |
| 102.5° | 235.3  | 217.7  | 235.3  | 252.8  | 257.2  | 241.2  | 219.8  | 209.0  | 173.0  | 101.0  | 46.9   |
| 105°   | 304.8  | 295.3  | 304.8  | 314.1  | 316.5  | 280.5  | 232.5  | 208.4  | 173.5  | 103.8  | 51.5   |
| 107.5° | 350.2  | 352.5  | 350.2  | 348.0  | 347.4  | 297.1  | 230.1  | 196.6  | 165.8  | 104.3  | 58.2   |
| 110°   | 367.5  | 377.3  | 367.5  | 357.7  | 355.3  | 299.1  | 224.2  | 186.7  | 159.0  | 103.5  | 61.9   |

TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   | 100°  | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 369.1 | 384.1 | 369.1 | 354.0 | 350.2  | 292.7 | 216.1 | 177.8 | 153.0 | 103.5 | 66.5   |
| 115°   | 359.3 | 380.2 | 359.3 | 338.3 | 333.1  | 277.8 | 203.9 | 167.0 | 146.2 | 104.5 | 73.3   |
| 117.5° | 338.5 | 361.8 | 338.5 | 315.3 | 309.5  | 259.5 | 193.0 | 159.6 | 141.9 | 106.5 | 79.9   |
| 120°   | 321.8 | 344.3 | 321.8 | 299.3 | 293.6  | 248.0 | 187.0 | 156.6 | 140.4 | 108.0 | 83.7   |
| 122.5° | 305.5 | 327.7 | 305.5 | 283.2 | 277.7  | 236.5 | 181.7 | 154.3 | 139.6 | 110.2 | 88.2   |
| 125°   | 282.3 | 302.8 | 282.3 | 261.8 | 256.7  | 221.8 | 175.1 | 151.8 | 139.0 | 113.4 | 94.2   |
| 127.5° | 261.4 | 278.6 | 261.4 | 244.1 | 239.8  | 209.8 | 169.8 | 149.8 | 138.6 | 116.4 | 99.8   |
| 130°   | 249.1 | 265.0 | 249.1 | 233.1 | 229.1  | 202.4 | 166.8 | 149.0 | 138.9 | 118.7 | 103.5  |
| 132.5° | 237.9 | 252.2 | 237.9 | 223.6 | 220.1  | 196.1 | 164.3 | 148.3 | 139.0 | 120.5 | 106.6  |
| 135°   | 222.6 | 235.0 | 222.6 | 210.2 | 207.2  | 187.1 | 160.4 | 147.1 | 138.9 | 122.5 | 110.1  |
| 137.5° | 210.3 | 220.5 | 210.3 | 200.3 | 197.7  | 180.7 | 158.2 | 146.9 | 139.7 | 125.4 | 114.7  |
| 140°   | 201.8 | 211.3 | 201.8 | 192.5 | 190.1  | 175.5 | 156.0 | 146.2 | 139.9 | 127.2 | 117.7  |
| 142.5° | 194.9 | 203.0 | 194.9 | 186.8 | 184.8  | 172.0 | 154.8 | 146.2 | 140.4 | 128.8 | 120.0  |
| 145°   | 184.5 | 190.6 | 184.5 | 178.4 | 176.8  | 166.2 | 152.2 | 145.2 | 140.4 | 130.7 | 123.4  |
| 147.5° | 176.4 | 181.5 | 176.4 | 171.4 | 170.1  | 161.8 | 150.8 | 145.2 | 141.4 | 133.6 | 127.8  |
| 150°   | 171.4 | 175.5 | 171.4 | 167.2 | 166.2  | 159.2 | 149.9 | 145.2 | 141.9 | 135.1 | 130.1  |
| 152.5° | 167.0 | 170.2 | 167.0 | 164.0 | 163.2  | 157.2 | 149.2 | 145.2 | 142.2 | 136.1 | 131.5  |
| 155°   | 162.1 | 164.2 | 162.1 | 160.0 | 159.5  | 154.8 | 148.4 | 145.2 | 142.9 | 138.2 | 134.8  |
| 157.5° | 158.2 | 159.6 | 158.2 | 156.7 | 156.3  | 152.6 | 147.7 | 145.2 | 143.7 | 140.4 | 138.0  |
| 160°   | 155.8 | 156.6 | 155.8 | 154.9 | 154.7  | 151.5 | 147.3 | 145.2 | 144.0 | 141.4 | 139.5  |
| 162.5° | 154.2 | 155.0 | 154.2 | 153.4 | 153.2  | 150.6 | 147.0 | 145.2 | 144.4 | 142.5 | 141.1  |
| 165°   | 152.0 | 152.8 | 152.0 | 151.2 | 151.0  | 149.1 | 146.5 | 145.2 | 144.8 | 144.0 | 143.4  |
| 167.5° | 150.4 | 150.8 | 150.4 | 150.1 | 150.0  | 148.7 | 147.0 | 146.2 | 145.8 | 145.1 | 144.6  |
| 170°   | 150.0 | 150.0 | 150.0 | 150.0 | 150.0  | 148.7 | 147.0 | 146.2 | 146.2 | 146.1 | 146.1  |
| 172.5° | 148.8 | 148.5 | 148.8 | 149.1 | 149.2  | 148.2 | 146.9 | 146.2 | 146.2 | 146.2 | 146.2  |
| 175°   | 148.1 | 148.1 | 148.1 | 148.1 | 148.1  | 147.5 | 146.6 | 146.2 | 146.4 | 146.8 | 147.1  |
| 177.5° | 147.5 | 147.1 | 147.5 | 147.8 | 147.9  | 147.4 | 146.7 | 146.4 | 146.6 | 146.9 | 147.1  |
| 180°   | 147.1 | 147.1 | 147.1 | 147.1 | 147.1  | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1  |

TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°   | 170°   | 180°   | 190°   | 200°   | 202.5° | 210°   | 220°   | 225°   | 230°   | 240°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 |
| 2.5°   | 1057.2 | 1051.2 | 1051.2 | 1041.3 | 1037.4 | 1034.4 | 1029.5 | 1014.7 | 1010.7 | 1006.8 | 1012.7 |
| 5°     | 1066.1 | 1055.2 | 1047.2 | 1029.5 | 1014.7 | 1008.8 | 990.0  | 954.5  | 930.9  | 913.1  | 903.3  |
| 7.5°   | 1068.0 | 1054.2 | 1039.3 | 1011.7 | 976.2  | 960.5  | 903.3  | 838.2  | 820.5  | 804.7  | 794.8  |
| 10°    | 1066.1 | 1050.2 | 1029.5 | 988.1  | 904.3  | 876.7  | 819.5  | 777.1  | 766.2  | 763.3  | 766.2  |
| 12.5°  | 1059.2 | 1044.3 | 1015.7 | 946.7  | 829.3  | 810.6  | 777.1  | 752.4  | 750.4  | 755.4  | 782.0  |
| 15°    | 1047.2 | 1033.4 | 999.9  | 891.4  | 787.9  | 774.1  | 750.4  | 741.6  | 752.4  | 786.9  | 866.8  |
| 17.5°  | 1035.4 | 1019.6 | 978.2  | 837.2  | 756.4  | 746.5  | 729.7  | 747.5  | 808.6  | 855.0  | 881.6  |
| 20°    | 1019.6 | 1000.9 | 953.6  | 797.8  | 733.7  | 724.8  | 716.9  | 796.8  | 843.1  | 859.9  | 874.7  |
| 22.5°  | 1000.9 | 981.2  | 920.0  | 770.2  | 710.0  | 703.1  | 708.0  | 824.4  | 843.1  | 855.0  | 867.8  |
| 25°    | 976.2  | 959.5  | 880.6  | 748.5  | 691.3  | 683.4  | 702.1  | 821.4  | 832.3  | 835.2  | 860.9  |
| 27.5°  | 953.6  | 931.9  | 839.2  | 728.8  | 668.6  | 665.6  | 707.1  | 808.6  | 816.5  | 819.5  | 847.1  |
| 30°    | 926.0  | 893.4  | 792.8  | 708.0  | 644.9  | 644.0  | 708.0  | 792.8  | 790.9  | 798.8  | 826.4  |
| 32.5°  | 897.4  | 836.2  | 740.6  | 682.4  | 622.3  | 621.3  | 701.1  | 769.2  | 767.2  | 778.1  | 798.8  |
| 35°    | 870.7  | 791.9  | 669.6  | 652.8  | 593.7  | 594.7  | 684.4  | 741.6  | 742.6  | 752.4  | 765.2  |
| 37.5°  | 843.1  | 753.4  | 591.7  | 620.3  | 566.1  | 566.1  | 661.7  | 715.9  | 714.0  | 716.9  | 734.7  |
| 40°    | 810.6  | 693.3  | 522.7  | 577.9  | 540.4  | 537.5  | 634.1  | 688.3  | 681.4  | 680.4  | 705.1  |
| 42.5°  | 776.1  | 627.2  | 471.4  | 521.7  | 510.8  | 506.9  | 600.6  | 654.8  | 642.0  | 644.9  | 676.5  |
| 45°    | 738.6  | 609.4  | 432.0  | 440.8  | 480.3  | 477.3  | 564.1  | 616.3  | 607.5  | 615.4  | 647.9  |
| 47.5°  | 701.1  | 574.0  | 419.1  | 365.9  | 447.7  | 446.8  | 523.7  | 578.9  | 574.0  | 581.8  | 616.3  |
| 50°    | 649.9  | 534.5  | 418.2  | 313.5  | 411.3  | 415.2  | 475.4  | 542.4  | 542.4  | 549.3  | 585.8  |
| 52.5°  | 583.8  | 486.2  | 379.7  | 284.0  | 368.9  | 380.7  | 433.0  | 510.8  | 512.8  | 519.7  | 552.3  |
| 55°    | 523.7  | 435.9  | 352.1  | 261.3  | 318.5  | 344.1  | 391.5  | 478.3  | 482.3  | 489.2  | 518.7  |
| 57.5°  | 468.4  | 362.9  | 346.1  | 234.7  | 272.1  | 296.8  | 355.1  | 446.8  | 448.7  | 454.6  | 483.2  |
| 60°    | 409.3  | 262.3  | 317.5  | 206.1  | 231.7  | 250.4  | 321.4  | 409.3  | 416.2  | 420.1  | 444.8  |
| 62.5°  | 342.1  | 190.3  | 287.9  | 186.4  | 212.0  | 215.9  | 293.8  | 373.8  | 382.7  | 385.6  | 400.4  |
| 65°    | 243.5  | 159.7  | 244.5  | 169.6  | 191.3  | 192.3  | 264.2  | 337.2  | 345.1  | 350.0  | 361.0  |
| 67.5°  | 164.7  | 130.2  | 186.4  | 153.8  | 175.5  | 176.5  | 235.7  | 294.8  | 305.7  | 309.6  | 316.5  |
| 70°    | 114.4  | 86.8   | 138.0  | 137.1  | 157.8  | 159.7  | 205.1  | 256.4  | 266.2  | 269.2  | 273.1  |
| 72.5°  | 83.8   | 70.0   | 114.4  | 123.2  | 139.0  | 141.0  | 173.5  | 213.0  | 222.8  | 225.8  | 227.8  |
| 75°    | 64.1   | 74.0   | 92.7   | 107.5  | 118.3  | 119.3  | 142.0  | 173.5  | 180.4  | 182.4  | 183.4  |
| 77.5°  | 51.3   | 69.0   | 68.0   | 86.8   | 96.6   | 94.7   | 111.4  | 134.1  | 140.0  | 140.0  | 140.0  |
| 80°    | 38.5   | 54.2   | 51.3   | 62.1   | 71.0   | 69.0   | 79.9   | 95.6   | 97.6   | 99.6   | 98.6   |
| 82.5°  | 28.6   | 34.5   | 34.5   | 39.4   | 47.3   | 45.4   | 53.2   | 62.1   | 62.1   | 62.1   | 64.1   |
| 85°    | 17.7   | 19.7   | 15.8   | 20.7   | 26.6   | 25.6   | 29.6   | 33.5   | 34.5   | 34.5   | 32.5   |
| 87.5°  | 10.8   | 8.9    | 4.9    | 7.9    | 11.8   | 11.8   | 13.8   | 14.8   | 13.8   | 13.8   | 13.8   |
| 90°    | 2.6    | 1.8    | 1.0    | 1.8    | 2.6    | 2.8    | 4.3    | 6.4    | 7.5    | 6.7    | 5.0    |
| 92.5°  | 17.4   | 10.6   | 3.9    | 10.6   | 17.4   | 19.0   | 26.8   | 37.2   | 42.3   | 37.1   | 26.6   |
| 95°    | 34.1   | 21.8   | 9.5    | 21.8   | 34.1   | 37.2   | 66.0   | 104.3  | 123.5  | 110.2  | 83.6   |
| 97.5°  | 38.1   | 27.2   | 16.4   | 27.2   | 38.1   | 40.8   | 88.8   | 152.8  | 184.9  | 176.5  | 159.6  |
| 100°   | 41.4   | 31.6   | 21.7   | 31.6   | 41.4   | 43.9   | 97.1   | 168.2  | 203.7  | 204.3  | 205.6  |
| 102.5° | 44.7   | 35.4   | 26.2   | 35.4   | 44.7   | 46.9   | 101.0  | 173.0  | 209.0  | 219.8  | 241.2  |
| 105°   | 49.5   | 41.8   | 34.0   | 41.8   | 49.5   | 51.5   | 103.8  | 173.5  | 208.4  | 232.5  | 280.5  |
| 107.5° | 56.4   | 49.1   | 41.9   | 49.1   | 56.4   | 58.2   | 104.3  | 165.8  | 196.6  | 230.1  | 297.1  |
| 110°   | 60.2   | 53.7   | 47.2   | 53.7   | 60.2   | 61.9   | 103.5  | 159.0  | 186.7  | 224.2  | 299.1  |

TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 64.9  | 58.7  | 52.5  | 58.7  | 64.9  | 66.5   | 103.5 | 153.0 | 177.8 | 216.1 | 292.7 |
| 115°   | 71.8  | 66.1  | 60.3  | 66.1  | 71.8  | 73.3   | 104.5 | 146.2 | 167.0 | 203.9 | 277.8 |
| 117.5° | 78.6  | 73.4  | 68.1  | 73.4  | 78.6  | 79.9   | 106.5 | 141.9 | 159.6 | 193.0 | 259.5 |
| 120°   | 82.5  | 77.6  | 72.7  | 77.6  | 82.5  | 83.7   | 108.0 | 140.4 | 156.6 | 187.0 | 248.0 |
| 122.5° | 87.0  | 82.0  | 77.1  | 82.0  | 87.0  | 88.2   | 110.2 | 139.6 | 154.3 | 181.7 | 236.5 |
| 125°   | 93.0  | 88.4  | 83.9  | 88.4  | 93.0  | 94.2   | 113.4 | 139.0 | 151.8 | 175.1 | 221.8 |
| 127.5° | 98.6  | 94.1  | 89.4  | 94.1  | 98.6  | 99.8   | 116.4 | 138.6 | 149.8 | 169.8 | 209.8 |
| 130°   | 102.2 | 97.3  | 92.4  | 97.3  | 102.2 | 103.5  | 118.7 | 138.9 | 149.0 | 166.8 | 202.4 |
| 132.5° | 105.4 | 100.5 | 95.5  | 100.5 | 105.4 | 106.6  | 120.5 | 139.0 | 148.3 | 164.3 | 196.1 |
| 135°   | 109.1 | 104.5 | 100.1 | 104.5 | 109.1 | 110.1  | 122.5 | 138.9 | 147.1 | 160.4 | 187.1 |
| 137.5° | 113.6 | 109.2 | 104.7 | 109.2 | 113.6 | 114.7  | 125.4 | 139.7 | 146.9 | 158.2 | 180.7 |
| 140°   | 116.7 | 112.6 | 108.6 | 112.6 | 116.7 | 117.7  | 127.2 | 139.9 | 146.2 | 156.0 | 175.5 |
| 142.5° | 119.0 | 115.3 | 111.5 | 115.3 | 119.0 | 120.0  | 128.8 | 140.4 | 146.2 | 154.8 | 172.0 |
| 145°   | 122.7 | 119.3 | 116.1 | 119.3 | 122.7 | 123.4  | 130.7 | 140.4 | 145.2 | 152.2 | 166.2 |
| 147.5° | 127.0 | 123.7 | 120.6 | 123.7 | 127.0 | 127.8  | 133.6 | 141.4 | 145.2 | 150.8 | 161.8 |
| 150°   | 129.4 | 126.4 | 123.5 | 126.4 | 129.4 | 130.1  | 135.1 | 141.9 | 145.2 | 149.9 | 159.2 |
| 152.5° | 130.9 | 128.8 | 126.6 | 128.8 | 130.9 | 131.5  | 136.1 | 142.2 | 145.2 | 149.2 | 157.2 |
| 155°   | 134.4 | 132.7 | 131.1 | 132.7 | 134.4 | 134.8  | 138.2 | 142.9 | 145.2 | 148.4 | 154.8 |
| 157.5° | 137.6 | 136.1 | 134.5 | 136.1 | 137.6 | 138.0  | 140.4 | 143.7 | 145.2 | 147.7 | 152.6 |
| 160°   | 139.2 | 137.9 | 136.8 | 137.9 | 139.2 | 139.5  | 141.4 | 144.0 | 145.2 | 147.3 | 151.5 |
| 162.5° | 140.9 | 139.9 | 139.0 | 139.9 | 140.9 | 141.1  | 142.5 | 144.4 | 145.2 | 147.0 | 150.6 |
| 165°   | 143.2 | 142.3 | 141.5 | 142.3 | 143.2 | 143.4  | 144.0 | 144.8 | 145.2 | 146.5 | 149.1 |
| 167.5° | 144.5 | 144.2 | 143.8 | 144.2 | 144.5 | 144.6  | 145.1 | 145.8 | 146.2 | 147.0 | 148.7 |
| 170°   | 146.0 | 145.6 | 145.2 | 145.6 | 146.0 | 146.1  | 146.1 | 146.2 | 146.2 | 147.0 | 148.7 |
| 172.5° | 146.2 | 146.1 | 146.0 | 146.1 | 146.2 | 146.2  | 146.2 | 146.2 | 146.2 | 146.9 | 148.2 |
| 175°   | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1  | 146.8 | 146.4 | 146.2 | 146.6 | 147.5 |
| 177.5° | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1  | 146.9 | 146.6 | 146.4 | 146.7 | 147.4 |
| 180°   | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1  | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 |

TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 |
| 2.5°   | 1005.8 | 1002.9 | 1006.8 | 996.0  | 1006.8 | 1002.9 | 1005.8 | 1012.7 | 1006.8 | 1010.7 | 1014.7 |
| 5°     | 882.6  | 877.6  | 861.9  | 849.0  | 861.9  | 877.6  | 882.6  | 903.3  | 913.1  | 930.9  | 954.5  |
| 7.5°   | 788.9  | 785.0  | 781.0  | 773.1  | 781.0  | 785.0  | 788.9  | 794.8  | 804.7  | 820.5  | 838.2  |
| 10°    | 768.2  | 769.2  | 775.1  | 774.1  | 775.1  | 769.2  | 768.2  | 766.2  | 763.3  | 766.2  | 777.1  |
| 12.5°  | 821.4  | 830.3  | 862.8  | 860.9  | 862.8  | 830.3  | 821.4  | 782.0  | 755.4  | 750.4  | 752.4  |
| 15°    | 882.6  | 885.5  | 892.4  | 893.4  | 892.4  | 885.5  | 882.6  | 866.8  | 786.9  | 752.4  | 741.6  |
| 17.5°  | 888.5  | 889.5  | 894.4  | 894.4  | 894.4  | 889.5  | 888.5  | 881.6  | 855.0  | 808.6  | 747.5  |
| 20°    | 883.6  | 885.5  | 895.4  | 897.4  | 895.4  | 885.5  | 883.6  | 874.7  | 859.9  | 843.1  | 796.8  |
| 22.5°  | 881.6  | 885.5  | 893.4  | 892.4  | 893.4  | 885.5  | 881.6  | 867.8  | 855.0  | 843.1  | 824.4  |
| 25°    | 871.7  | 871.7  | 872.7  | 873.7  | 872.7  | 871.7  | 871.7  | 860.9  | 835.2  | 832.3  | 821.4  |
| 27.5°  | 851.0  | 853.0  | 858.9  | 857.9  | 858.9  | 853.0  | 851.0  | 847.1  | 819.5  | 816.5  | 808.6  |
| 30°    | 832.3  | 830.3  | 825.4  | 821.4  | 825.4  | 830.3  | 832.3  | 826.4  | 798.8  | 790.9  | 792.8  |
| 32.5°  | 800.7  | 795.8  | 790.9  | 787.9  | 790.9  | 795.8  | 800.7  | 798.8  | 778.1  | 767.2  | 769.2  |
| 35°    | 763.3  | 764.2  | 763.3  | 760.3  | 763.3  | 764.2  | 763.3  | 765.2  | 752.4  | 742.6  | 741.6  |
| 37.5°  | 736.6  | 738.6  | 737.6  | 733.7  | 737.6  | 738.6  | 736.6  | 734.7  | 716.9  | 714.0  | 715.9  |
| 40°    | 709.0  | 710.0  | 709.0  | 706.1  | 709.0  | 710.0  | 709.0  | 705.1  | 680.4  | 681.4  | 688.3  |
| 42.5°  | 682.4  | 681.4  | 678.5  | 676.5  | 678.5  | 681.4  | 682.4  | 676.5  | 644.9  | 642.0  | 654.8  |
| 45°    | 651.8  | 652.8  | 646.9  | 644.0  | 646.9  | 652.8  | 651.8  | 647.9  | 615.4  | 607.5  | 616.3  |
| 47.5°  | 621.3  | 621.3  | 616.3  | 613.4  | 616.3  | 621.3  | 621.3  | 616.3  | 581.8  | 574.0  | 578.9  |
| 50°    | 588.7  | 587.8  | 580.9  | 579.9  | 580.9  | 587.8  | 588.7  | 585.8  | 549.3  | 542.4  | 542.4  |
| 52.5°  | 551.3  | 551.3  | 552.3  | 554.2  | 552.3  | 551.3  | 551.3  | 552.3  | 519.7  | 512.8  | 510.8  |
| 55°    | 518.7  | 519.7  | 526.6  | 528.6  | 526.6  | 519.7  | 518.7  | 518.7  | 489.2  | 482.3  | 478.3  |
| 57.5°  | 485.2  | 485.2  | 490.1  | 490.1  | 490.1  | 485.2  | 485.2  | 483.2  | 454.6  | 448.7  | 446.8  |
| 60°    | 446.8  | 448.7  | 452.7  | 451.7  | 452.7  | 448.7  | 446.8  | 444.8  | 420.1  | 416.2  | 409.3  |
| 62.5°  | 406.3  | 408.3  | 409.3  | 407.3  | 409.3  | 408.3  | 406.3  | 400.4  | 385.6  | 382.7  | 373.8  |
| 65°    | 363.9  | 365.9  | 366.9  | 364.9  | 366.9  | 365.9  | 363.9  | 361.0  | 350.0  | 345.1  | 337.2  |
| 67.5°  | 320.4  | 319.5  | 318.5  | 322.4  | 318.5  | 319.5  | 320.4  | 316.5  | 309.6  | 305.7  | 294.8  |
| 70°    | 276.1  | 276.1  | 275.1  | 277.1  | 275.1  | 276.1  | 276.1  | 273.1  | 269.2  | 266.2  | 256.4  |
| 72.5°  | 228.8  | 227.8  | 231.7  | 228.8  | 231.7  | 227.8  | 228.8  | 227.8  | 225.8  | 222.8  | 213.0  |
| 75°    | 182.4  | 184.4  | 182.4  | 185.4  | 182.4  | 184.4  | 182.4  | 183.4  | 182.4  | 180.4  | 173.5  |
| 77.5°  | 139.0  | 141.0  | 139.0  | 139.0  | 139.0  | 141.0  | 139.0  | 140.0  | 140.0  | 140.0  | 134.1  |
| 80°    | 98.6   | 97.6   | 97.6   | 96.6   | 97.6   | 97.6   | 98.6   | 98.6   | 99.6   | 97.6   | 95.6   |
| 82.5°  | 63.1   | 62.1   | 62.1   | 64.1   | 62.1   | 62.1   | 63.1   | 64.1   | 62.1   | 62.1   | 62.1   |
| 85°    | 34.5   | 35.5   | 33.5   | 33.5   | 33.5   | 35.5   | 34.5   | 32.5   | 34.5   | 34.5   | 33.5   |
| 87.5°  | 12.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 12.8   | 13.8   | 13.8   | 13.8   | 14.8   |
| 90°    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 5.0    | 6.7    | 7.5    | 6.4    |
| 92.5°  | 18.7   | 17.9   | 15.0   | 12.0   | 15.0   | 17.9   | 18.7   | 26.6   | 37.1   | 42.3   | 37.2   |
| 95°    | 63.7   | 61.4   | 52.5   | 43.4   | 52.5   | 61.4   | 63.7   | 83.6   | 110.2  | 123.5  | 104.3  |
| 97.5°  | 147.0  | 142.7  | 125.5  | 108.4  | 125.5  | 142.7  | 147.0  | 159.6  | 176.5  | 184.9  | 152.8  |
| 100°   | 206.5  | 201.3  | 180.9  | 160.4  | 180.9  | 201.3  | 206.5  | 205.6  | 204.3  | 203.7  | 168.2  |
| 102.5° | 257.2  | 252.8  | 235.3  | 217.7  | 235.3  | 252.8  | 257.2  | 241.2  | 219.8  | 209.0  | 173.0  |
| 105°   | 316.5  | 314.1  | 304.8  | 295.3  | 304.8  | 314.1  | 316.5  | 280.5  | 232.5  | 208.4  | 173.5  |
| 107.5° | 347.4  | 348.0  | 350.2  | 352.5  | 350.2  | 348.0  | 347.4  | 297.1  | 230.1  | 196.6  | 165.8  |
| 110°   | 355.3  | 357.7  | 367.5  | 377.3  | 367.5  | 357.7  | 355.3  | 299.1  | 224.2  | 186.7  | 159.0  |

TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 260°  | 270°  | 280°  | 290°  | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 112.5° | 350.2  | 354.0 | 369.1 | 384.1 | 369.1 | 354.0 | 350.2  | 292.7 | 216.1 | 177.8 | 153.0 |
| 115°   | 333.1  | 338.3 | 359.3 | 380.2 | 359.3 | 338.3 | 333.1  | 277.8 | 203.9 | 167.0 | 146.2 |
| 117.5° | 309.5  | 315.3 | 338.5 | 361.8 | 338.5 | 315.3 | 309.5  | 259.5 | 193.0 | 159.6 | 141.9 |
| 120°   | 293.6  | 299.3 | 321.8 | 344.3 | 321.8 | 299.3 | 293.6  | 248.0 | 187.0 | 156.6 | 140.4 |
| 122.5° | 277.7  | 283.2 | 305.5 | 327.7 | 305.5 | 283.2 | 277.7  | 236.5 | 181.7 | 154.3 | 139.6 |
| 125°   | 256.7  | 261.8 | 282.3 | 302.8 | 282.3 | 261.8 | 256.7  | 221.8 | 175.1 | 151.8 | 139.0 |
| 127.5° | 239.8  | 244.1 | 261.4 | 278.6 | 261.4 | 244.1 | 239.8  | 209.8 | 169.8 | 149.8 | 138.6 |
| 130°   | 229.1  | 233.1 | 249.1 | 265.0 | 249.1 | 233.1 | 229.1  | 202.4 | 166.8 | 149.0 | 138.9 |
| 132.5° | 220.1  | 223.6 | 237.9 | 252.2 | 237.9 | 223.6 | 220.1  | 196.1 | 164.3 | 148.3 | 139.0 |
| 135°   | 207.2  | 210.2 | 222.6 | 235.0 | 222.6 | 210.2 | 207.2  | 187.1 | 160.4 | 147.1 | 138.9 |
| 137.5° | 197.7  | 200.3 | 210.3 | 220.5 | 210.3 | 200.3 | 197.7  | 180.7 | 158.2 | 146.9 | 139.7 |
| 140°   | 190.1  | 192.5 | 201.8 | 211.3 | 201.8 | 192.5 | 190.1  | 175.5 | 156.0 | 146.2 | 139.9 |
| 142.5° | 184.8  | 186.8 | 194.9 | 203.0 | 194.9 | 186.8 | 184.8  | 172.0 | 154.8 | 146.2 | 140.4 |
| 145°   | 176.8  | 178.4 | 184.5 | 190.6 | 184.5 | 178.4 | 176.8  | 166.2 | 152.2 | 145.2 | 140.4 |
| 147.5° | 170.1  | 171.4 | 176.4 | 181.5 | 176.4 | 171.4 | 170.1  | 161.8 | 150.8 | 145.2 | 141.4 |
| 150°   | 166.2  | 167.2 | 171.4 | 175.5 | 171.4 | 167.2 | 166.2  | 159.2 | 149.9 | 145.2 | 141.9 |
| 152.5° | 163.2  | 164.0 | 167.0 | 170.2 | 167.0 | 164.0 | 163.2  | 157.2 | 149.2 | 145.2 | 142.2 |
| 155°   | 159.5  | 160.0 | 162.1 | 164.2 | 162.1 | 160.0 | 159.5  | 154.8 | 148.4 | 145.2 | 142.9 |
| 157.5° | 156.3  | 156.7 | 158.2 | 159.6 | 158.2 | 156.7 | 156.3  | 152.6 | 147.7 | 145.2 | 143.7 |
| 160°   | 154.7  | 154.9 | 155.8 | 156.6 | 155.8 | 154.9 | 154.7  | 151.5 | 147.3 | 145.2 | 144.0 |
| 162.5° | 153.2  | 153.4 | 154.2 | 155.0 | 154.2 | 153.4 | 153.2  | 150.6 | 147.0 | 145.2 | 144.4 |
| 165°   | 151.0  | 151.2 | 152.0 | 152.8 | 152.0 | 151.2 | 151.0  | 149.1 | 146.5 | 145.2 | 144.8 |
| 167.5° | 150.0  | 150.1 | 150.4 | 150.8 | 150.4 | 150.1 | 150.0  | 148.7 | 147.0 | 146.2 | 145.8 |
| 170°   | 150.0  | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 | 150.0  | 148.7 | 147.0 | 146.2 | 146.2 |
| 172.5° | 149.2  | 149.1 | 148.8 | 148.5 | 148.8 | 149.1 | 149.2  | 148.2 | 146.9 | 146.2 | 146.2 |
| 175°   | 148.1  | 148.1 | 148.1 | 148.1 | 148.1 | 148.1 | 148.1  | 147.5 | 146.6 | 146.2 | 146.4 |
| 177.5° | 147.9  | 147.8 | 147.5 | 147.1 | 147.5 | 147.8 | 147.9  | 147.4 | 146.7 | 146.4 | 146.6 |
| 180°   | 147.1  | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1  | 147.1 | 147.1 | 147.1 | 147.1 |

TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 337.5° | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1042.3 | 1042.3 | 1042.3 | 1042.3 | 1042.3 |
| 2.5°   | 1029.5 | 1034.4 | 1037.4 | 1041.3 | 1051.2 |
| 5°     | 990.0  | 1008.8 | 1014.7 | 1029.5 | 1047.2 |
| 7.5°   | 903.3  | 960.5  | 976.2  | 1011.7 | 1039.3 |
| 10°    | 819.5  | 876.7  | 904.3  | 988.1  | 1029.5 |
| 12.5°  | 777.1  | 810.6  | 829.3  | 946.7  | 1015.7 |
| 15°    | 750.4  | 774.1  | 787.9  | 891.4  | 999.9  |
| 17.5°  | 729.7  | 746.5  | 756.4  | 837.2  | 978.2  |
| 20°    | 716.9  | 724.8  | 733.7  | 797.8  | 953.6  |
| 22.5°  | 708.0  | 703.1  | 710.0  | 770.2  | 920.0  |
| 25°    | 702.1  | 683.4  | 691.3  | 748.5  | 880.6  |
| 27.5°  | 707.1  | 665.6  | 668.6  | 728.8  | 839.2  |
| 30°    | 708.0  | 644.0  | 644.9  | 708.0  | 792.8  |
| 32.5°  | 701.1  | 621.3  | 622.3  | 682.4  | 740.6  |
| 35°    | 684.4  | 594.7  | 593.7  | 652.8  | 669.6  |
| 37.5°  | 661.7  | 566.1  | 566.1  | 620.3  | 591.7  |
| 40°    | 634.1  | 537.5  | 540.4  | 577.9  | 522.7  |
| 42.5°  | 600.6  | 506.9  | 510.8  | 521.7  | 471.4  |
| 45°    | 564.1  | 477.3  | 480.3  | 440.8  | 432.0  |
| 47.5°  | 523.7  | 446.8  | 447.7  | 365.9  | 419.1  |
| 50°    | 475.4  | 415.2  | 411.3  | 313.5  | 418.2  |
| 52.5°  | 433.0  | 380.7  | 368.9  | 284.0  | 379.7  |
| 55°    | 391.5  | 344.1  | 318.5  | 261.3  | 352.1  |
| 57.5°  | 355.1  | 296.8  | 272.1  | 234.7  | 346.1  |
| 60°    | 321.4  | 250.4  | 231.7  | 206.1  | 317.5  |
| 62.5°  | 293.8  | 215.9  | 212.0  | 186.4  | 287.9  |
| 65°    | 264.2  | 192.3  | 191.3  | 169.6  | 244.5  |
| 67.5°  | 235.7  | 176.5  | 175.5  | 153.8  | 186.4  |
| 70°    | 205.1  | 159.7  | 157.8  | 137.1  | 138.0  |
| 72.5°  | 173.5  | 141.0  | 139.0  | 123.2  | 114.4  |
| 75°    | 142.0  | 119.3  | 118.3  | 107.5  | 92.7   |
| 77.5°  | 111.4  | 94.7   | 96.6   | 86.8   | 68.0   |
| 80°    | 79.9   | 69.0   | 71.0   | 62.1   | 51.3   |
| 82.5°  | 53.2   | 45.4   | 47.3   | 39.4   | 34.5   |
| 85°    | 29.6   | 25.6   | 26.6   | 20.7   | 15.8   |
| 87.5°  | 13.8   | 11.8   | 11.8   | 7.9    | 4.9    |
| 90°    | 4.3    | 2.8    | 2.6    | 1.8    | 1.0    |
| 92.5°  | 26.8   | 19.0   | 17.4   | 10.6   | 3.9    |
| 95°    | 66.0   | 37.2   | 34.1   | 21.8   | 9.5    |
| 97.5°  | 88.8   | 40.8   | 38.1   | 27.2   | 16.4   |
| 100°   | 97.1   | 43.9   | 41.4   | 31.6   | 21.7   |
| 102.5° | 101.0  | 46.9   | 44.7   | 35.4   | 26.2   |
| 105°   | 103.8  | 51.5   | 49.5   | 41.8   | 34.0   |
| 107.5° | 104.3  | 58.2   | 56.4   | 49.1   | 41.9   |
| 110°   | 103.5  | 61.9   | 60.2   | 53.7   | 47.2   |



TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 103.5 | 66.5   | 64.9  | 58.7  | 52.5  |
| 115°   | 104.5 | 73.3   | 71.8  | 66.1  | 60.3  |
| 117.5° | 106.5 | 79.9   | 78.6  | 73.4  | 68.1  |
| 120°   | 108.0 | 83.7   | 82.5  | 77.6  | 72.7  |
| 122.5° | 110.2 | 88.2   | 87.0  | 82.0  | 77.1  |
| 125°   | 113.4 | 94.2   | 93.0  | 88.4  | 83.9  |
| 127.5° | 116.4 | 99.8   | 98.6  | 94.1  | 89.4  |
| 130°   | 118.7 | 103.5  | 102.2 | 97.3  | 92.4  |
| 132.5° | 120.5 | 106.6  | 105.4 | 100.5 | 95.5  |
| 135°   | 122.5 | 110.1  | 109.1 | 104.5 | 100.1 |
| 137.5° | 125.4 | 114.7  | 113.6 | 109.2 | 104.7 |
| 140°   | 127.2 | 117.7  | 116.7 | 112.6 | 108.6 |
| 142.5° | 128.8 | 120.0  | 119.0 | 115.3 | 111.5 |
| 145°   | 130.7 | 123.4  | 122.7 | 119.3 | 116.1 |
| 147.5° | 133.6 | 127.8  | 127.0 | 123.7 | 120.6 |
| 150°   | 135.1 | 130.1  | 129.4 | 126.4 | 123.5 |
| 152.5° | 136.1 | 131.5  | 130.9 | 128.8 | 126.6 |
| 155°   | 138.2 | 134.8  | 134.4 | 132.7 | 131.1 |
| 157.5° | 140.4 | 138.0  | 137.6 | 136.1 | 134.5 |
| 160°   | 141.4 | 139.5  | 139.2 | 137.9 | 136.8 |
| 162.5° | 142.5 | 141.1  | 140.9 | 139.9 | 139.0 |
| 165°   | 144.0 | 143.4  | 143.2 | 142.3 | 141.5 |
| 167.5° | 145.1 | 144.6  | 144.5 | 144.2 | 143.8 |
| 170°   | 146.1 | 146.1  | 146.0 | 145.6 | 145.2 |
| 172.5° | 146.2 | 146.2  | 146.2 | 146.1 | 146.0 |
| 175°   | 146.8 | 147.1  | 147.1 | 147.1 | 147.1 |
| 177.5° | 146.9 | 147.1  | 147.1 | 147.1 | 147.1 |
| 180°   | 147.1 | 147.1  | 147.1 | 147.1 | 147.1 |

TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-4-3000K

**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 | 14.64            | 15.77 | 15.36 | 16.51 | 17.39 | 17.44          | 18.57 | 18.16 | 19.31 | 20.19 |
|                 | 3H   | 15.14            | 16.15 | 15.87 | 16.90 | 17.82 | 18.80          | 19.81 | 19.53 | 20.56 | 21.47 |
|                 | 4H   | 15.34            | 16.30 | 16.10 | 17.06 | 17.99 | 19.25          | 20.20 | 20.00 | 20.96 | 21.89 |
|                 | 6H   | 15.48            | 16.36 | 16.24 | 17.13 | 18.07 | 19.54          | 20.42 | 20.30 | 21.19 | 22.13 |
|                 | 8H   | 15.48            | 16.32 | 16.26 | 17.11 | 18.06 | 19.61          | 20.45 | 20.39 | 21.24 | 22.19 |
|                 | 12H  | 15.46            | 16.27 | 16.25 | 17.05 | 18.02 | 19.66          | 20.46 | 20.44 | 21.24 | 22.21 |
| 4H              | 2H   | 15.70            | 16.65 | 16.46 | 17.42 | 18.34 | 17.88          | 18.84 | 18.64 | 19.60 | 20.53 |
|                 | 3H   | 16.75            | 17.55 | 17.52 | 18.34 | 19.29 | 19.40          | 20.20 | 20.17 | 21.00 | 21.94 |
|                 | 4H   | 17.04            | 17.76 | 17.82 | 18.56 | 19.53 | 19.94          | 20.66 | 20.72 | 21.46 | 22.43 |
|                 | 6H   | 17.18            | 17.80 | 17.98 | 18.63 | 19.60 | 20.31          | 20.93 | 21.11 | 21.75 | 22.73 |
|                 | 8H   | 17.19            | 17.77 | 18.00 | 18.59 | 19.58 | 20.42          | 21.00 | 21.22 | 21.82 | 22.81 |
|                 | 12H  | 17.17            | 17.70 | 18.00 | 18.53 | 19.53 | 20.48          | 21.01 | 21.31 | 21.84 | 22.84 |
| 8H              | 4H   | 17.51            | 18.09 | 18.31 | 18.91 | 19.90 | 20.08          | 20.67 | 20.89 | 21.48 | 22.48 |
|                 | 6H   | 17.78            | 18.26 | 18.61 | 19.12 | 20.12 | 20.52          | 21.01 | 21.36 | 21.86 | 22.86 |
|                 | 8H   | 17.82            | 18.26 | 18.67 | 19.11 | 20.12 | 20.67          | 21.10 | 21.52 | 21.96 | 22.97 |
|                 | 12H  | 17.82            | 18.20 | 18.67 | 19.05 | 20.11 | 20.78          | 21.15 | 21.62 | 22.00 | 23.07 |
| 12H             | 4H   | 17.53            | 18.05 | 18.35 | 18.89 | 19.89 | 20.06          | 20.59 | 20.89 | 21.42 | 22.42 |
|                 | 6H   | 17.84            | 18.27 | 18.69 | 19.13 | 20.14 | 20.52          | 20.95 | 21.37 | 21.81 | 22.82 |
|                 | 8H   | 17.92            | 18.30 | 18.77 | 19.15 | 20.21 | 20.69          | 21.07 | 21.54 | 21.92 | 22.98 |

END OF REPORT