

| Sample | <i>Hosta x tardiana</i> 'El Niño' | <i>Caladium bicolor</i> | <i>Hemigraphis</i> <i>alternata</i> | <i>Pilea</i> <i>peperomioides</i> |
|--------|--------------------------------------|-------------------------|--|--------------------------------------|
| | [-] | [-] | [-] | [-] |
| 1 | 1.35 | 0.94 | 1.22 | 1.00 |
| 2 | 1.13 | 0.89 | 1.24 | 1.10 |
| 3 | 1.03 | 0.98 | 1.22 | 1.08 |
| 4 | 1.13 | 0.99 | 1.24 | 0.97 |
| 5 | 1.19 | 0.91 | 1.40 | 1.08 |
| 6 | 1.29 | 0.94 | 1.15 | 1.12 |
| 7 | 1.34 | 0.92 | 1.44 | 1.02 |
| 8 | 1.43 | 1.04 | 1.23 | 1.05 |
| 9 | 1.16 | 0.90 | 1.12 | 1.04 |
| 10 | 1.19 | 0.89 | 1.14 | 1.07 |
| 11 | 1.14 | 0.90 | 1.23 | 1.06 |
| 12 | 0.93 | 1.00 | 1.15 | 1.05 |
| 13 | 1.13 | 0.90 | 1.21 | 1.01 |
| 14 | 1.10 | 1.03 | 1.25 | 1.11 |
| 15 | 1.09 | 0.88 | 1.18 | 0.97 |
| 16 | 1.09 | 1.03 | 1.30 | 1.06 |
| 17 | 1.23 | 1.12 | 1.12 | 1.09 |
| 18 | 1.10 | 1.11 | 1.12 | 1.00 |
| 19 | 1.20 | 0.91 | 1.31 | 1.04 |
| 20 | 1.13 | 0.96 | 1.20 | 1.11 |
| 21 | 1.04 | 0.97 | 1.17 | 1.00 |
| 22 | 1.06 | 0.99 | 1.24 | 1.11 |
| 23 | 1.27 | 0.95 | 1.25 | 1.00 |
| 24 | 1.36 | 0.94 | 1.16 | 0.97 |
| 25 | 1.11 | 1.05 | 1.17 | 0.97 |

| Sample | <i>Hosta x tardiana</i> 'El Niño' | <i>Caladium bicolor</i> | <i>Hemigraphis</i> <i>alternata</i> | <i>Pilea</i> <i>peperomioides</i> |
|--------|--------------------------------------|-------------------------|--|--------------------------------------|
| | [-] | [-] | [-] | [-] |
| 1 | 1.58 | 0.79 | 1.30 | 1.49 |
| 2 | 1.53 | 0.76 | 2.27 | 0.95 |
| 3 | 1.08 | 0.82 | 0.98 | 1.81 |
| 4 | 1.88 | 0.84 | 1.09 | 0.91 |
| 5 | 1.46 | 0.91 | 2.66 | 1.18 |
| 6 | 1.44 | 1.11 | 1.42 | 0.85 |
| 7 | 1.00 | 0.87 | 1.06 | 1.42 |
| 8 | 1.54 | 0.84 | 1.18 | 0.94 |
| 9 | 1.94 | 1.18 | 1.20 | 1.25 |
| 10 | 1.89 | 0.90 | 2.09 | 1.64 |
| 11 | 2.35 | 1.04 | 1.22 | 1.31 |
| 12 | 1.43 | 0.96 | 0.99 | 1.84 |
| 13 | 0.93 | 1.06 | 1.69 | 0.93 |
| 14 | 1.47 | 0.72 | 1.76 | 1.22 |
| 15 | 1.89 | 0.88 | 1.59 | 1.61 |
| 16 | 1.62 | 0.99 | 0.84 | 0.83 |
| 17 | 1.78 | 1.10 | 1.12 | 1.73 |
| 18 | 1.17 | 0.99 | 1.41 | 1.01 |
| 19 | 1.08 | 0.93 | 2.19 | 0.83 |
| 20 | 1.34 | 0.91 | 2.35 | 1.08 |
| 21 | 1.91 | 0.83 | 1.36 | 1.50 |
| 22 | 1.44 | 0.91 | 1.47 | 1.14 |
| 23 | 1.39 | 0.75 | 1.51 | 1.34 |
| 24 | 1.64 | 1.39 | 1.27 | 1.02 |
| 25 | 1.38 | 0.85 | 0.91 | 1.10 |

| <i>I/J</i> _{transition} of 6 transition zone samples | | | | |
|---|--------------------------------------|-------------------------|--|--------------------------------------|
| Sample | <i>Hosta x tardiana</i> 'El Niño' | <i>Caladium bicolor</i> | <i>Hemigraphis</i> <i>alternata</i> | <i>Pilea</i> <i>peperomioides</i> |
| | [-] | [-] | [-] | [-] |
| 1 | 0.54 | 0.54 | 0.34 | 0.42 |
| 2 | 0.47 | 0.65 | 0.10 | 0.33 |
| 3 | 0.44 | 0.49 | 0.39 | 0.56 |
| 4 | 0.36 | 0.55 | 0.16 | 0.43 |
| 5 | 0.53 | 0.74 | 0.46 | 0.41 |
| 6 (detailed serial section) | 0.23 | 0.68 | 0.59 | 0.52 |

| <i>I/J</i> _{petiole} of 25 petiole samples | | | | |
|---|--------------------------------------|-------------------------|--|--------------------------------------|
| Sample | <i>Hosta x tardiana</i> 'El Niño' | <i>Caladium bicolor</i> | <i>Hemigraphis</i> <i>alternata</i> | <i>Pilea</i> <i>peperomioides</i> |
| | [-] | [-] | [-] | [-] |
| 1 | 0.27 | 0.56 | 0.36 | 0.50 |
| 2 | 0.32 | 0.56 | 0.39 | 0.45 |
| 3 | 0.37 | 0.51 | 0.39 | 0.45 |
| 4 | 0.34 | 0.50 | 0.42 | 0.52 |
| 5 | 0.31 | 0.54 | 0.33 | 0.45 |
| 6 | 0.28 | 0.52 | 0.42 | 0.47 |
| 7 | 0.30 | 0.54 | 0.33 | 0.50 |
| 8 | 0.27 | 0.49 | 0.40 | 0.47 |
| 9 | 0.33 | 0.56 | 0.42 | 0.47 |
| 10 | 0.31 | 0.55 | 0.43 | 0.45 |
| 11 | 0.34 | 0.58 | 0.38 | 0.47 |
| 12 | 0.42 | 0.48 | 0.43 | 0.48 |
| 13 | 0.34 | 0.58 | 0.40 | 0.50 |
| 14 | 0.38 | 0.51 | 0.40 | 0.44 |
| 15 | 0.35 | 0.56 | 0.40 | 0.51 |
| 16 | 0.36 | 0.49 | 0.38 | 0.47 |
| 17 | 0.31 | 0.44 | 0.41 | 0.47 |
| 18 | 0.35 | 0.51 | 0.41 | 0.49 |
| 19 | 0.29 | 0.55 | 0.34 | 0.48 |
| 20 | 0.32 | 0.52 | 0.40 | 0.45 |
| 21 | 0.38 | 0.51 | 0.42 | 0.50 |
| 22 | 0.33 | 0.53 | 0.37 | 0.45 |
| 23 | 0.28 | 0.54 | 0.40 | 0.50 |
| 24 | 0.29 | 0.54 | 0.41 | 0.52 |
| 25 | 0.35 | 0.47 | 0.42 | 0.51 |

| a_A of the apical petiole parts of 6 transition zone samples | | | | |
|--|--------------------------------------|-------------------------|--|--------------------------------------|
| Sample | <i>Hosta x tardiana</i> 'El Niño' | <i>Caladium bicolor</i> | <i>Hemigraphis</i> <i>alternata</i> | <i>Pilea</i> <i>peperomioides</i> |
| | [mm ² /mm] | [mm ² /mm] | [mm ² /mm] | [mm ² /mm] |
| 1 | 0.07 | 2.45 | -0.09 | 0.28 |
| 2 | -0.01 | 0.83 | -0.09 | 0.12 |
| 3 | 1.59 | 0.28 | 0.01 | 0.42 |
| 4 | 1.37 | 0.93 | -0.04 | -0.07 |
| 5 | -0.06 | 0.48 | 0.12 | 0.13 |
| 6 (detailed serial section) | 0.14 | 0.35 | 0.13 | -0.18 |

| a_I of the apical petiole parts of 6 transition zone samples | | | | |
|--|--------------------------------------|-------------------------|--|--------------------------------------|
| Sample | <i>Hosta x tardiana</i> 'El Niño' | <i>Caladium bicolor</i> | <i>Hemigraphis</i> <i>alternata</i> | <i>Pilea</i> <i>peperomioides</i> |
| | [mm ⁴ /mm] | [mm ⁴ /mm] | [mm ⁴ /mm] | [mm ⁴ /mm] |
| 1 | 0.62 | 6.60 | -0.04 | 0.39 |
| 2 | 1.47 | 1.81 | -0.08 | 0.08 |
| 3 | 14.93 | 0.28 | 0.00 | 0.61 |
| 4 | 6.98 | 1.90 | -0.01 | 0.03 |
| 5 | 1.72 | 0.91 | 0.16 | 0.08 |
| 6 (detailed serial section) | 1.13 | 0.31 | 0.05 | -1.58 |

| a_J of the apical petiole parts of 6 transition zone samples | | | | |
|--|--------------------------------------|-------------------------|--|--------------------------------------|
| Sample | <i>Hosta x tardiana</i> 'El Niño' | <i>Caladium bicolor</i> | <i>Hemigraphis</i> <i>alternata</i> | <i>Pilea</i> <i>peperomioides</i> |
| | [mm ⁴ /mm] | [mm ⁴ /mm] | [mm ⁴ /mm] | [mm ⁴ /mm] |
| 1 | 1.42 | 12.57 | -0.06 | 0.56 |
| 2 | 4.76 | 3.07 | -0.06 | 0.12 |
| 3 | 36.73 | 1.12 | 0.01 | 0.90 |
| 4 | 22.83 | 3.43 | -0.03 | -0.16 |
| 5 | 3.13 | 1.30 | 0.52 | 0.32 |
| 6 (detailed serial section) | 3.89 | 0.93 | 0.16 | -1.14 |

Explanations:

A = cross-sectional area

I = axial second moment of area

J = polar second moment of area

| b_A of the transition zone parts of 6 transition zone samples | | | | |
|---|--------------------------------------|-------------------------|--|--------------------------------------|
| Sample | <i>Hosta x tardiana</i> 'El Niño' | <i>Caladium bicolor</i> | <i>Hemigraphis</i> <i>alternata</i> | <i>Pilea</i> <i>peperomioides</i> |
| | [mm ⁻¹] | [mm ⁻¹] | [mm ⁻¹] | [mm ⁻¹] |
| 1 | 0.08 | 0.49 | 6.48 | 2.14 |
| 2 | 0.29 | 0.45 | 3.32 | 1.74 |
| 3 | 0.12 | 0.54 | 2.16 | 2.67 |
| 4 | 0.22 | 0.37 | 3.31 | 1.74 |
| 5 | 0.12 | 0.71 | 1.75 | 3.33 |
| 6 (detailed serial section) | 0.06 | 0.56 | 0.87 | 0.58 |

| b_I of the transition zone parts of 6 transition zone samples | | | | |
|---|--------------------------------------|-------------------------|--|--------------------------------------|
| Sample | <i>Hosta x tardiana</i> 'El Niño' | <i>Caladium bicolor</i> | <i>Hemigraphis</i> <i>alternata</i> | <i>Pilea</i> <i>peperomioides</i> |
| | [mm ⁻¹] | [mm ⁻¹] | [mm ⁻¹] | [mm ⁻¹] |
| 1 | 0.29 | 1.31 | 19.61 | 3.83 |
| 2 | 1.26 | 1.32 | 9.06 | 3.59 |
| 3 | 0.45 | 1.37 | 7.24 | 5.13 |
| 4 | 0.95 | 1.14 | 7.28 | 3.90 |
| 5 | 0.48 | 1.56 | 6.25 | 6.45 |
| 6 (detailed serial section) | 0.33 | 1.55 | 3.68 | 1.30 |

| b_J of the transition zone parts of 6 transition zone samples | | | | |
|---|--------------------------------------|-------------------------|--|--------------------------------------|
| Sample | <i>Hosta x tardiana</i> 'El Niño' | <i>Caladium bicolor</i> | <i>Hemigraphis</i> <i>alternata</i> | <i>Pilea</i> <i>peperomioides</i> |
| | [mm ⁻¹] | [mm ⁻¹] | [mm ⁻¹] | [mm ⁻¹] |
| 1 | 0.32 | 1.32 | 22.73 | 4.42 |
| 2 | 1.02 | 1.24 | 12.38 | 3.74 |
| 3 | 0.49 | 1.39 | 8.92 | 5.45 |
| 4 | 0.80 | 1.17 | 13.40 | 3.94 |
| 5 | 0.45 | 1.67 | 6.20 | 8.29 |
| 6 (detailed serial section) | 0.31 | 1.43 | 3.12 | 1.27 |

Explanations:

A = cross-sectional area

I = axial second moment of area

J = polar second moment of area

| Sample 1 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 8.23 | 8.05 | 19.44 |
| 0.2 | 9.41 | 11.02 | 23.42 |
| 0.4 | 9.16 | 9.88 | 22.70 |
| 0.6 | 9.45 | 11.13 | 23.58 |
| 0.8 | 8.93 | 9.01 | 22.45 |
| 1.0 | 8.93 | 9.20 | 22.26 |
| 1.2 | 8.95 | 9.96 | 21.54 |
| 1.4 | 8.80 | 8.50 | 22.18 |
| 1.6 | 8.77 | 8.85 | 22.07 |
| 1.8 | 9.10 | 9.71 | 23.52 |
| 2.0 | 8.99 | 9.51 | 23.34 |
| 2.2 | 9.07 | 10.28 | 23.71 |
| 2.4 | 9.19 | 10.63 | 23.30 |
| 2.6 | 9.19 | 10.14 | 24.54 |
| 2.8 | 9.20 | 10.18 | 24.20 |
| 3.0 | 9.09 | 10.33 | 23.93 |
| 3.2 | 9.23 | 10.93 | 24.35 |
| 3.4 | 9.13 | 10.01 | 24.94 |
| 3.6 | 9.17 | 10.35 | 24.87 |
| 3.8 | 9.14 | 10.14 | 25.29 |
| 4.0 | 9.48 | 11.96 | 25.98 |
| 4.2 | 9.18 | 10.67 | 25.74 |
| 4.4 | 8.94 | 10.44 | 24.77 |
| 4.6 | 9.01 | 10.54 | 25.89 |
| 4.8 | 9.29 | 11.74 | 27.23 |
| 5.0 | 9.41 | 11.75 | 28.95 |
| 5.2 | 9.28 | 10.37 | 27.47 |
| 5.4 | 9.55 | 13.31 | 30.23 |
| 5.6 | 9.05 | 10.45 | 25.70 |
| 5.8 | 9.38 | 11.95 | 28.95 |
| 6.0 | 9.49 | 13.50 | 30.73 |
| 6.2 | 9.19 | 10.94 | 28.53 |
| 6.4 | 9.62 | 14.32 | 32.10 |
| 6.6 | 9.29 | 12.48 | 29.16 |
| 6.8 | 9.56 | 15.71 | 33.58 |
| 7.0 | 9.37 | 14.49 | 30.99 |
| 7.2 | 9.65 | 14.86 | 31.82 |
| 7.4 | 11.42 | 27.82 | 55.53 |
| 7.6 | 10.43 | 21.08 | 37.74 |
| 7.8 | 10.69 | 24.84 | 43.06 |
| 8.0 | 10.75 | 24.81 | 42.60 |
| 8.2 | 10.98 | 27.53 | 50.44 |
| 8.4 | 9.50 | 16.59 | 34.02 |
| 8.6 | 11.62 | 28.75 | 67.49 |

| Sample 1 (continued) | | | |
|----------------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 8.8 | 11.49 | 31.08 | 58.21 |
| 9.0 | 10.64 | 33.03 | 49.60 |
| 9.2 | 12.62 | 38.49 | 78.19 |
| 9.4 | 12.50 | 40.03 | 60.33 |
| 9.6 | 11.00 | 33.64 | 57.72 |
| 9.8 | 13.54 | 41.51 | 130.41 |

| Sample 2 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 15.16 | 19.57 | 60.00 |
| 0.2 | 15.00 | 18.92 | 58.46 |
| 0.4 | 15.41 | 18.90 | 62.99 |
| 0.6 | 15.38 | 21.01 | 63.93 |
| 0.8 | 15.28 | 22.05 | 67.24 |
| 1.0 | 15.41 | 22.14 | 66.10 |
| 1.2 | 15.25 | 21.15 | 65.17 |
| 1.4 | 14.99 | 20.04 | 61.32 |
| 1.6 | 15.37 | 23.63 | 70.88 |
| 1.8 | 15.17 | 22.95 | 70.37 |
| 2.0 | 15.31 | 22.33 | 73.05 |
| 2.2 | 15.24 | 22.63 | 71.31 |
| 2.4 | 14.84 | 21.05 | 65.60 |
| 2.6 | 14.98 | 20.89 | 68.55 |
| 2.8 | 14.61 | 21.20 | 67.26 |
| 3.0 | 15.06 | 22.49 | 71.48 |
| 3.2 | 15.51 | 22.94 | 78.67 |
| 3.4 | 15.27 | 24.20 | 75.33 |
| 3.6 | 14.65 | 20.81 | 67.09 |
| 3.8 | 15.22 | 26.00 | 77.35 |
| 4.0 | 15.95 | 31.64 | 93.52 |
| 4.2 | 16.15 | 33.39 | 99.87 |
| 4.4 | 17.33 | 63.55 | 144.35 |
| 4.6 | 17.75 | 80.35 | 155.51 |
| 4.8 | 18.71 | 81.54 | 173.17 |
| 5.0 | 18.76 | 93.12 | 187.26 |
| 5.2 | 22.82 | 155.68 | 395.24 |
| 5.4 | 22.53 | 183.42 | 321.16 |

| Sample 3 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 17.47 | 31.41 | 72.58 |
| 0.2 | 15.22 | 20.41 | 50.87 |
| 0.4 | 14.06 | 14.90 | 42.92 |
| 0.6 | 18.87 | 37.04 | 124.53 |
| 0.8 | 17.94 | 30.58 | 91.19 |
| 1.0 | 17.91 | 32.95 | 94.79 |
| 1.2 | 16.13 | 22.97 | 65.64 |
| 1.4 | 15.54 | 19.92 | 58.19 |
| 1.6 | 19.51 | 53.90 | 139.79 |
| 1.8 | 19.14 | 59.17 | 130.71 |
| 2.0 | 19.28 | 43.10 | 124.86 |
| 2.2 | 21.39 | 79.02 | 189.14 |
| 2.4 | 19.61 | 51.81 | 144.09 |
| 2.6 | 18.83 | 46.13 | 124.35 |
| 2.8 | 17.44 | 44.95 | 106.67 |
| 3.0 | 21.24 | 102.93 | 234.23 |
| 3.2 | 21.70 | 108.27 | 246.64 |
| 3.4 | 22.14 | 125.44 | 240.71 |
| 3.6 | 19.81 | 100.10 | 185.04 |
| 3.8 | 23.68 | 113.46 | 386.81 |
| 4.0 | 22.52 | 122.55 | 279.94 |
| 4.2 | 23.89 | 142.55 | 377.05 |
| 4.4 | 23.73 | 137.65 | 377.38 |
| 4.6 | 22.68 | 158.84 | 304.02 |

| Sample 4 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 11.20 | 11.87 | 38.93 |
| 0.2 | 9.74 | 11.29 | 27.48 |
| 0.4 | 9.42 | 9.09 | 24.02 |
| 0.6 | 7.99 | 6.24 | 18.87 |
| 0.8 | 9.12 | 8.67 | 26.06 |
| 1.0 | 9.56 | 8.00 | 26.48 |
| 1.2 | 9.22 | 8.81 | 28.96 |
| 1.4 | 9.70 | 11.27 | 31.95 |
| 1.6 | 11.95 | 18.91 | 58.74 |
| 1.8 | 11.69 | 19.81 | 58.54 |
| 2.0 | 12.96 | 21.56 | 75.18 |
| 2.2 | 11.05 | 18.86 | 54.04 |
| 2.4 | 13.24 | 28.83 | 89.58 |

| Sample 4 (continued) | | | |
|----------------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 2.6 | 12.48 | 25.89 | 82.42 |
| 2.8 | 15.13 | 62.56 | 154.54 |
| 3.0 | 14.68 | 45.36 | 142.80 |
| 3.2 | 16.12 | 70.44 | 196.92 |
| 3.4 | 15.08 | 47.01 | 166.44 |
| 3.6 | 16.72 | 90.26 | 238.17 |
| 3.8 | 17.50 | 117.07 | 263.27 |

| Sample 5 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 15.63 | 20.80 | 54.71 |
| 0.2 | 15.01 | 20.13 | 53.65 |
| 0.4 | 14.80 | 21.37 | 51.52 |
| 0.6 | 14.28 | 17.71 | 46.12 |
| 0.8 | 14.92 | 21.89 | 53.95 |
| 1.0 | 15.21 | 24.23 | 58.02 |
| 1.2 | 14.90 | 22.42 | 60.89 |
| 1.4 | 13.48 | 17.22 | 44.46 |
| 1.6 | 14.41 | 19.68 | 52.90 |
| 1.8 | 12.78 | 15.97 | 42.29 |
| 2.0 | 14.13 | 18.76 | 53.67 |
| 2.2 | 14.32 | 21.13 | 53.47 |
| 2.4 | 14.18 | 20.83 | 49.38 |
| 2.6 | 12.93 | 23.51 | 43.02 |
| 2.8 | 14.45 | 23.65 | 71.97 |
| 3.0 | 12.90 | 20.71 | 39.84 |
| 3.2 | 14.06 | 20.15 | 47.48 |
| 3.4 | 12.15 | 13.87 | 43.14 |
| 3.6 | 14.38 | 23.24 | 58.73 |
| 3.8 | 12.41 | 21.97 | 50.29 |
| 4.0 | 11.56 | 18.37 | 48.69 |
| 4.2 | 14.34 | 22.63 | 57.98 |
| 4.4 | 14.59 | 22.85 | 82.60 |
| 4.6 | 15.43 | 27.86 | 70.02 |
| 4.8 | 14.87 | 19.46 | 58.32 |
| 5.0 | 15.18 | 29.42 | 63.95 |
| 5.2 | 13.95 | 26.54 | 65.56 |
| 5.4 | 16.82 | 43.87 | 95.52 |
| 5.6 | 13.55 | 25.04 | 55.91 |
| 5.8 | 12.52 | 23.16 | 45.64 |

| Sample 5 (continued) | | | |
|----------------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 6.0 | 15.40 | 36.82 | 80.04 |
| 6.2 | 13.84 | 39.10 | 64.74 |
| 6.4 | 17.03 | 56.76 | 106.77 |
| 6.6 | 16.76 | 54.93 | 106.45 |
| 6.8 | 16.95 | 56.76 | 111.10 |
| 7.0 | 16.35 | 59.40 | 112.99 |
| 7.2 | 17.75 | 72.40 | 124.88 |
| 7.4 | 17.87 | 76.25 | 138.76 |
| 7.6 | 18.63 | 85.58 | 145.97 |
| 7.8 | 17.24 | 81.08 | 155.69 |
| 8.0 | 18.59 | 87.79 | 168.31 |
| 8.2 | 19.01 | 94.54 | 177.99 |
| 8.4 | 17.00 | 69.85 | 138.12 |
| 8.6 | 20.16 | 129.27 | 201.25 |
| 8.8 | 21.03 | 149.44 | 237.95 |
| 9.0 | 21.09 | 150.62 | 278.02 |
| 9.2 | 22.96 | 196.42 | 383.24 |
| 9.4 | 24.00 | 296.87 | 426.39 |

| Sample 6 (detailed serial section) | | | | | |
|------------------------------------|--------------------------|---------------------------------|---------------------------------|----------------------------|--|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J | Number of vascular bundles | Area fraction of the vascular bundles AF_v |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] | [-] | [%] |
| 0.0 | 6.70 | 4.81 | 16.50 | 18 | 8.30 |
| 0.4 | 5.81 | 3.06 | 10.93 | 14 | 8.75 |
| 0.5 | 6.14 | 3.86 | 12.64 | 15 | 7.88 |
| 0.6 | 6.48 | 4.06 | 14.11 | 16 | 7.79 |
| 1.0 | 6.11 | 3.61 | 14.36 | 18 | 8.16 |
| 1.1 | 6.53 | 4.67 | 17.97 | 17 | 7.87 |
| 1.2 | 5.88 | 3.61 | 11.81 | 14 | 7.08 |
| 1.3 | 6.04 | 3.96 | 14.05 | 17 | 8.07 |
| 1.4 | 6.06 | 3.58 | 14.55 | 16 | 7.95 |
| 1.5 | 6.31 | 4.59 | 17.57 | 20 | 8.23 |
| 1.6 | 6.32 | 4.41 | 17.82 | 21 | 7.88 |
| 1.7 | 5.90 | 3.73 | 13.50 | 17 | 7.98 |
| 1.8 | 6.30 | 4.89 | 18.57 | 19 | 8.77 |
| 1.9 | 6.36 | 5.34 | 18.81 | 19 | 8.45 |
| 2.2 | 6.16 | 4.92 | 16.26 | 20 | 8.31 |
| 2.3 | 6.38 | 5.47 | 19.72 | 20 | 8.20 |
| 2.4 | 6.06 | 4.68 | 16.34 | 19 | 8.16 |
| 2.5 | 6.11 | 4.87 | 16.76 | 17 | 8.52 |
| 2.6 | 6.38 | 5.75 | 20.22 | 17 | 7.67 |

| Sample 6 (detailed serial section) (continued) | | | | | |
|--|--------------------------|---------------------------------|---------------------------------|----------------------------|--|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J | Number of vascular bundles | Area fraction of the vascular bundles AF_v |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] | [-] | [%] |
| 2.8 | 6.47 | 6.07 | 21.50 | 17 | 7.14 |
| 2.9 | 6.24 | 5.07 | 18.44 | 16 | 6.89 |
| 3.1 | 6.26 | 5.45 | 19.00 | 16 | 7.40 |
| 3.2 | 6.24 | 4.74 | 19.16 | 16 | 7.47 |
| 3.4 | 6.60 | 6.01 | 24.46 | 20 | 8.01 |
| 3.5 | 6.59 | 7.11 | 25.17 | 19 | 9.00 |
| 3.7 | 6.63 | 6.84 | 25.65 | 20 | 7.74 |
| 3.8 | 6.52 | 8.24 | 21.83 | 17 | 8.43 |
| 3.9 | 6.77 | 6.85 | 28.26 | 18 | 7.34 |
| 4.0 | 6.55 | 7.88 | 24.28 | 17 | 7.31 |
| 4.1 | 6.85 | 5.87 | 31.90 | 17 | 7.48 |
| 4.2 | 6.79 | 8.68 | 28.66 | 18 | 6.88 |
| 4.4 | 6.68 | 9.23 | 25.30 | 18 | 7.08 |
| 4.5 | 7.02 | 9.34 | 33.86 | 19 | 6.87 |
| 4.6 | 6.93 | 7.62 | 33.32 | 19 | 7.77 |
| 4.9 | 7.12 | 10.09 | 37.55 | 20 | 7.12 |
| 5.0 | 7.23 | 12.38 | 39.20 | 21 | 7.61 |
| 5.1 | 7.23 | 13.28 | 39.22 | 20 | 6.73 |
| 5.2 | 7.37 | 7.85 | 44.64 | 18 | 6.45 |
| 5.4 | 7.50 | 10.56 | 45.45 | 17 | 6.47 |
| 5.5 | 7.57 | 13.77 | 46.09 | 18 | 6.72 |
| 5.7 | 7.53 | 11.59 | 49.38 | 19 | 6.72 |
| 5.8 | 7.69 | 13.94 | 51.59 | 20 | 6.91 |
| 5.9 | 7.68 | 13.48 | 52.43 | 21 | 7.47 |
| 6.0 | 7.71 | 11.65 | 56.35 | 20 | 7.26 |
| 6.4 | 7.95 | 11.93 | 65.12 | 20 | 6.38 |
| 6.5 | 8.14 | 13.39 | 67.39 | 20 | 5.67 |
| 6.7 | 7.92 | 27.45 | 54.47 | 21 | 6.25 |
| 6.9 | 8.35 | 8.89 | 82.39 | 24 | 6.58 |
| 7.0 | 8.17 | 13.57 | 77.40 | 21 | 8.28 |
| 7.1 | 8.23 | 15.41 | 81.06 | 20 | 6.67 |
| 7.2 | 8.27 | 27.47 | 72.47 | 20 | 5.94 |
| 7.3 | 8.25 | 12.39 | 84.86 | 20 | 6.05 |
| 7.4 | 8.35 | 19.82 | 87.09 | 20 | 6.31 |
| 7.5 | 8.47 | 23.77 | 88.55 | 22 | 6.67 |
| 8.0 | 8.75 | 35.17 | 98.32 | 22 | 6.50 |
| 8.1 | 8.68 | 42.01 | 89.78 | 23 | 6.61 |

Explanations:

basal end of the sample => section height: 0.0 mm

| Sample 1 | | | |
|----------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 11.37 | 9.39 | 20.75 |
| 0.2 | 10.73 | 8.46 | 18.43 |
| 0.4 | 10.72 | 8.48 | 18.41 |
| 0.6 | 10.73 | 8.63 | 18.43 |
| 0.8 | 10.98 | 8.98 | 19.30 |
| 1.0 | 10.99 | 8.96 | 19.34 |
| 1.2 | 11.03 | 9.16 | 19.50 |
| 1.4 | 11.20 | 9.57 | 20.04 |
| 1.6 | 11.47 | 10.03 | 21.04 |
| 1.8 | 11.46 | 10.00 | 21.01 |
| 2.0 | 11.74 | 10.42 | 22.06 |
| 2.2 | 11.85 | 10.76 | 22.47 |
| 2.4 | 12.26 | 11.42 | 24.06 |
| 2.6 | 12.86 | 12.54 | 26.55 |
| 2.8 | 13.30 | 14.04 | 28.36 |
| 3.0 | 14.73 | 16.90 | 35.30 |
| 3.2 | 15.71 | 19.67 | 40.25 |
| 3.4 | 17.06 | 23.40 | 47.48 |
| 3.6 | 18.30 | 27.25 | 54.85 |
| 3.8 | 19.63 | 31.33 | 63.60 |
| 4.0 | 21.12 | 38.03 | 74.63 |
| 4.2 | 21.65 | 42.00 | 79.64 |
| 4.4 | 23.33 | 49.67 | 94.21 |
| 4.6 | 26.92 | 71.24 | 132.11 |
| 4.8 | 27.82 | 78.65 | 144.80 |
| 5.0 | 31.54 | 106.36 | 197.36 |
| 5.2 | 34.77 | 139.55 | 256.18 |
| 5.4 | 41.21 | 216.32 | 398.27 |
| 5.6 | 45.08 | 268.63 | 503.56 |
| 5.8 | 48.48 | 328.53 | 632.52 |
| 6.0 | 47.69 | 360.04 | 687.50 |

| Sample 2 | | | |
|----------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 8.80 | 5.60 | 12.50 |
| 0.2 | 9.65 | 7.93 | 14.91 |
| 0.4 | 8.49 | 5.17 | 11.57 |
| 0.6 | 8.26 | 5.16 | 10.91 |
| 0.8 | 8.38 | 5.23 | 11.25 |
| 1.0 | 8.32 | 5.19 | 11.10 |

| Sample 2 (continued) | | | |
|----------------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 1.2 | 8.29 | 5.10 | 11.00 |
| 1.4 | 8.28 | 5.08 | 10.97 |
| 1.6 | 8.50 | 5.29 | 11.58 |
| 1.8 | 8.13 | 5.26 | 10.59 |
| 2.0 | 8.38 | 5.15 | 11.30 |
| 2.2 | 8.69 | 5.73 | 12.11 |
| 2.4 | 8.79 | 6.10 | 12.41 |
| 2.6 | 8.87 | 6.20 | 12.64 |
| 2.8 | 9.37 | 6.75 | 14.11 |
| 3.0 | 10.60 | 9.60 | 18.68 |
| 3.2 | 12.35 | 13.48 | 25.70 |
| 3.4 | 13.02 | 15.83 | 28.88 |
| 3.6 | 13.28 | 14.68 | 29.73 |
| 3.8 | 14.97 | 22.22 | 38.59 |
| 4.0 | 17.46 | 32.47 | 53.46 |
| 4.2 | 19.09 | 40.66 | 66.08 |
| 4.4 | 19.50 | 46.52 | 71.92 |
| 4.6 | 23.60 | 74.07 | 110.60 |
| 4.8 | 26.92 | 100.50 | 147.94 |
| 5.0 | 29.57 | 125.39 | 185.35 |
| 5.2 | 32.10 | 158.18 | 237.79 |
| 5.4 | 32.13 | 194.58 | 290.19 |
| 5.6 | 32.89 | 233.64 | 359.69 |
| 5.8 | 33.69 | 265.36 | 425.51 |

| Sample 3 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 9.92 | 8.92 | 16.61 |
| 0.2 | 10.17 | 7.98 | 16.51 |
| 0.4 | 10.42 | 8.64 | 17.39 |
| 0.6 | 9.91 | 7.35 | 15.68 |
| 0.8 | 10.01 | 7.61 | 16.04 |
| 1.0 | 9.78 | 7.27 | 15.27 |
| 1.2 | 9.60 | 7.07 | 14.70 |
| 1.4 | 9.63 | 6.91 | 14.83 |
| 1.6 | 9.21 | 6.53 | 13.56 |
| 1.8 | 9.36 | 6.57 | 14.03 |
| 2.0 | 9.56 | 6.80 | 14.68 |
| 2.2 | 9.47 | 6.62 | 14.36 |
| 2.4 | 9.49 | 6.76 | 14.40 |

| Sample 3 (continued) | | | |
|----------------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 2.6 | 9.28 | 6.59 | 13.79 |
| 2.8 | 9.19 | 6.28 | 13.53 |
| 3.0 | 9.22 | 6.18 | 13.65 |
| 3.2 | 8.89 | 5.73 | 12.70 |
| 3.4 | 8.88 | 5.55 | 12.72 |
| 3.6 | 9.30 | 6.27 | 13.90 |
| 3.8 | 9.34 | 6.26 | 14.03 |
| 4.0 | 9.24 | 6.13 | 13.78 |
| 4.2 | 9.59 | 6.57 | 14.87 |
| 4.4 | 9.93 | 7.25 | 15.87 |
| 4.6 | 10.15 | 7.24 | 16.69 |
| 4.8 | 10.67 | 8.05 | 18.49 |
| 5.0 | 11.42 | 9.06 | 21.34 |
| 5.2 | 12.83 | 11.75 | 27.04 |
| 5.4 | 13.91 | 13.77 | 31.96 |
| 5.6 | 13.90 | 13.79 | 31.93 |
| 5.8 | 19.40 | 32.10 | 65.08 |
| 6.0 | 20.67 | 36.68 | 74.72 |
| 6.2 | 23.98 | 52.73 | 105.27 |
| 6.4 | 25.80 | 66.13 | 128.32 |
| 6.6 | 28.43 | 81.64 | 164.07 |
| 6.8 | 32.71 | 117.10 | 229.03 |
| 7.0 | 36.65 | 150.01 | 303.54 |
| 7.2 | 43.31 | 218.75 | 458.07 |
| 7.4 | 43.25 | 227.63 | 527.47 |
| 7.6 | 47.30 | 302.12 | 650.47 |
| 7.8 | 47.80 | 351.08 | 762.28 |

| Sample 4 | | | |
|----------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 8.80 | 5.97 | 12.38 |
| 0.2 | 9.25 | 6.01 | 13.88 |
| 0.4 | 9.42 | 6.57 | 14.27 |
| 0.6 | 9.61 | 6.83 | 14.85 |
| 0.8 | 9.06 | 6.46 | 13.13 |
| 1.0 | 8.68 | 5.55 | 12.14 |
| 1.2 | 8.95 | 6.28 | 12.85 |
| 1.4 | 8.72 | 6.06 | 12.18 |
| 1.6 | 8.98 | 6.43 | 12.93 |
| 1.8 | 8.85 | 6.06 | 12.54 |

| Sample 4 (continued) | | | |
|----------------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 2.0 | 8.70 | 5.87 | 12.13 |
| 2.2 | 8.41 | 5.43 | 11.38 |
| 2.4 | 8.84 | 5.92 | 12.54 |
| 2.6 | 9.08 | 6.46 | 13.21 |
| 2.8 | 9.07 | 6.43 | 13.18 |
| 3.0 | 9.94 | 7.86 | 15.87 |
| 3.2 | 10.19 | 8.19 | 16.80 |
| 3.4 | 10.42 | 8.46 | 17.57 |
| 3.6 | 12.05 | 11.36 | 23.94 |
| 3.8 | 12.63 | 12.71 | 26.28 |
| 4.0 | 13.40 | 15.26 | 29.53 |
| 4.2 | 14.13 | 18.05 | 32.94 |
| 4.4 | 14.74 | 19.57 | 35.98 |
| 4.6 | 15.89 | 23.53 | 42.38 |
| 4.8 | 17.75 | 30.17 | 54.60 |
| 5.0 | 19.24 | 37.05 | 65.46 |
| 5.2 | 21.12 | 46.28 | 81.79 |
| 5.4 | 24.69 | 67.67 | 119.54 |
| 5.6 | 26.57 | 80.41 | 141.58 |
| 5.8 | 30.68 | 110.08 | 198.24 |
| 6.0 | 32.01 | 138.37 | 252.41 |
| 6.2 | 32.49 | 165.70 | 308.18 |
| 6.4 | 33.55 | 207.90 | 398.78 |
| 6.6 | 34.20 | 233.21 | 442.33 |
| 6.8 | 36.01 | 290.02 | 567.27 |
| 7.0 | 36.55 | 320.49 | 648.70 |

| Sample 5 | | | |
|----------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 6.13 | 3.01 | 6.00 |
| 0.2 | 6.62 | 3.56 | 6.99 |
| 0.4 | 6.15 | 3.04 | 6.02 |
| 0.6 | 6.05 | 2.99 | 5.83 |
| 0.8 | 5.94 | 2.77 | 5.62 |
| 1.0 | 5.85 | 2.70 | 5.45 |
| 1.2 | 5.63 | 2.44 | 5.06 |
| 1.4 | 5.76 | 2.58 | 5.29 |
| 1.6 | 5.55 | 2.38 | 4.90 |
| 1.8 | 5.69 | 2.54 | 5.16 |
| 2.0 | 5.69 | 2.51 | 5.16 |

| Sample 5 (continued) | | | |
|----------------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 2.2 | 5.75 | 2.62 | 5.28 |
| 2.4 | 5.83 | 2.69 | 5.42 |
| 2.6 | 5.86 | 2.70 | 5.47 |
| 2.8 | 5.90 | 2.73 | 5.56 |
| 3.0 | 6.08 | 2.96 | 5.90 |
| 3.2 | 6.30 | 3.19 | 6.35 |
| 3.4 | 6.49 | 3.48 | 6.75 |
| 3.6 | 7.15 | 4.47 | 8.24 |
| 3.8 | 8.48 | 6.86 | 11.89 |
| 4.0 | 10.17 | 11.90 | 18.10 |
| 4.2 | 11.04 | 16.51 | 23.11 |
| 4.4 | 14.04 | 32.06 | 41.45 |
| 4.6 | 17.61 | 58.36 | 72.39 |
| 4.8 | 18.74 | 63.03 | 79.70 |
| 5.0 | 24.53 | 111.74 | 143.59 |
| 5.2 | 28.22 | 134.60 | 182.40 |
| 5.4 | 31.12 | 149.92 | 211.85 |
| 5.6 | 29.13 | 160.79 | 250.54 |
| 5.8 | 36.68 | 274.21 | 424.19 |

| Sample 6 (detailed serial section) | | | | | |
|------------------------------------|--------------------------|---------------------------------|---------------------------------|----------------------------|--|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J | Number of vascular bundles | Area fraction of the vascular bundles AF_v |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] | [-] | [%] |
| 0.0 | 6.74 | 3.20 | 7.31 | 75.00 | 5.38 |
| 0.1 | 6.89 | 3.39 | 7.64 | 74.00 | 3.96 |
| 0.2 | 6.87 | 3.34 | 7.61 | 72.00 | 3.27 |
| 0.3 | 6.89 | 3.36 | 7.64 | 74.00 | 3.58 |
| 0.4 | 6.95 | 3.46 | 7.79 | 74.00 | 3.37 |
| 0.5 | 6.90 | 3.39 | 7.66 | 75.00 | 3.79 |
| 0.6 | 6.94 | 3.42 | 7.76 | 77.00 | 3.76 |
| 0.7 | 6.78 | 3.23 | 7.42 | 75.00 | 4.36 |
| 0.8 | 6.97 | 3.48 | 7.82 | 74.00 | 4.29 |
| 0.9 | 6.81 | 3.29 | 7.47 | 76.00 | 4.32 |
| 1.0 | 6.87 | 3.34 | 7.61 | 79.00 | 4.59 |
| 1.1 | 6.84 | 3.33 | 7.52 | 73.00 | 4.66 |
| 1.2 | 6.86 | 3.30 | 7.59 | 80.00 | 4.06 |
| 1.3 | 6.83 | 3.33 | 7.52 | 77.00 | 4.72 |
| 1.4 | 6.92 | 3.40 | 7.72 | 78.00 | 5.28 |
| 1.5 | 6.90 | 3.36 | 7.67 | 73.00 | 5.22 |
| 1.6 | 6.71 | 3.10 | 7.28 | 76.00 | 5.22 |
| 1.7 | 6.94 | 3.37 | 7.77 | 73.00 | 4.75 |

| Sample 6 (detailed serial section) (continued) | | | | | |
|--|--------------------------|---------------------------------|---------------------------------|----------------------------|--|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J | Number of vascular bundles | Area fraction of the vascular bundles AF_v |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] | [-] | [%] |
| 1.8 | 6.64 | 2.89 | 7.20 | 77.00 | 4.49 |
| 1.9 | 7.05 | 3.01 | 8.26 | 71.00 | 4.88 |
| 2.0 | 6.87 | 2.96 | 7.79 | 78.00 | 4.99 |
| 2.2 | 6.95 | 3.03 | 7.97 | 76.00 | 5.41 |
| 2.3 | 6.89 | 2.97 | 7.84 | 71.00 | 5.89 |
| 2.4 | 6.80 | 2.91 | 7.62 | 75.00 | 5.83 |
| 2.5 | 6.97 | 3.02 | 8.03 | 75.00 | 5.52 |
| 2.6 | 7.07 | 3.10 | 8.29 | 72.00 | 5.24 |
| 2.7 | 7.03 | 3.04 | 8.19 | 72.00 | 5.45 |
| 2.8 | 7.08 | 3.15 | 8.26 | 71.00 | 6.02 |
| 2.9 | 7.10 | 3.13 | 8.32 | 72.00 | 5.93 |
| 3.0 | 7.04 | 3.12 | 8.16 | 73.00 | 5.71 |
| 3.1 | 7.04 | 3.08 | 8.19 | 70.00 | 5.60 |
| 3.2 | 7.14 | 3.06 | 8.50 | 69.00 | 6.00 |
| 3.4 | 7.16 | 3.16 | 8.49 | 69.00 | 6.00 |
| 3.5 | 7.18 | 3.26 | 8.48 | 69.00 | 5.78 |
| 3.6 | 7.12 | 3.18 | 8.39 | 67.00 | 5.69 |
| 3.7 | 7.16 | 3.20 | 8.46 | 68.00 | 5.53 |
| 3.8 | 7.19 | 3.25 | 8.50 | 66.00 | 5.60 |
| 3.9 | 7.31 | 3.38 | 8.81 | 66.00 | 4.89 |
| 4.0 | 7.41 | 3.47 | 9.06 | 68.00 | 5.02 |
| 4.1 | 7.56 | 3.60 | 9.43 | 68.00 | 4.95 |
| 4.2 | 7.68 | 3.74 | 9.73 | 71.00 | 4.99 |
| 4.3 | 7.72 | 3.82 | 9.85 | 67.00 | 4.58 |
| 4.4 | 7.85 | 3.94 | 10.19 | 69.00 | 4.77 |
| 4.5 | 8.13 | 4.24 | 10.94 | 69.00 | 4.50 |
| 4.6 | 8.39 | 4.55 | 11.65 | 71.00 | 4.38 |
| 4.7 | 8.43 | 4.74 | 11.72 | 69.00 | 3.99 |
| 4.8 | 8.59 | 5.11 | 12.11 | 68.00 | 4.07 |
| 4.9 | 9.05 | 5.77 | 13.41 | 68.00 | 4.34 |
| 5.0 | 9.37 | 6.35 | 14.33 | 69.00 | 3.79 |
| 5.1 | 9.58 | 6.78 | 15.06 | 70.00 | 3.74 |
| 5.3 | 10.60 | 8.76 | 18.50 | 73.00 | 3.05 |
| 5.6 | 16.23 | 31.84 | 48.89 | 86.00 | 2.85 |
| 5.7 | 17.31 | 37.50 | 56.60 | 89.00 | 2.63 |
| 5.8 | 18.11 | 42.08 | 63.13 | 90.00 | 2.68 |
| 5.9 | 19.50 | 50.83 | 74.80 | 97.00 | 2.82 |
| 6.0 | 20.55 | 56.89 | 84.02 | 99.00 | 2.79 |
| 6.2 | 22.90 | 74.18 | 107.92 | 97.00 | 2.76 |
| 6.3 | 24.68 | 85.85 | 125.38 | 99.00 | 3.92 |
| 6.4 | 25.18 | 93.69 | 135.33 | 108.00 | 2.87 |
| 6.5 | 27.03 | 114.91 | 163.94 | 118.00 | 2.82 |
| 6.6 | 27.66 | 117.68 | 174.27 | 121.00 | 2.77 |
| 6.7 | 28.07 | 136.44 | 199.60 | 132.00 | 3.12 |

| Sample 6 (detailed serial section) (continued) | | | | | |
|--|--------------------------|---------------------------------|---------------------------------|----------------------------|--|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J | Number of vascular bundles | Area fraction of the vascular bundles AF_v |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] | [-] | [%] |
| 6.8 | 28.77 | 146.73 | 219.34 | 125.00 | 3.72 |
| 6.9 | 28.88 | 165.65 | 245.66 | 125.00 | 3.09 |

Explanations:

basal end of the sample => section height: 0.0 mm

| Sample 1 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 1.50 | 0.13 | 0.40 |
| 0.2 | 2.91 | 0.52 | 1.42 |
| 0.4 | 3.07 | 0.59 | 1.58 |
| 0.6 | 3.04 | 0.54 | 1.58 |
| 0.8 | 3.11 | 0.68 | 1.57 |
| 1.0 | 2.65 | 0.44 | 1.18 |
| 1.2 | 1.75 | 0.17 | 0.54 |
| 1.4 | 1.93 | 0.22 | 0.63 |
| 1.6 | 2.83 | 0.42 | 1.41 |
| 1.8 | 2.51 | 0.37 | 1.08 |
| 2.0 | 1.80 | 0.18 | 0.56 |
| 2.2 | 1.92 | 0.20 | 0.65 |
| 2.4 | 1.87 | 0.19 | 0.60 |
| 2.6 | 2.03 | 0.22 | 0.72 |
| 2.8 | 2.19 | 0.27 | 0.84 |
| 3.0 | 1.79 | 0.18 | 0.55 |
| 3.2 | 2.20 | 0.25 | 0.87 |
| 3.4 | 2.65 | 0.36 | 1.35 |
| 3.6 | 3.02 | 0.57 | 1.61 |
| 3.8 | 3.52 | 0.91 | 2.04 |
| 4.0 | 12.87 | 45.78 | 191.85 |

| Sample 2 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 3.03 | 0.69 | 1.50 |
| 0.2 | 3.22 | 0.78 | 1.67 |
| 0.4 | 3.07 | 0.67 | 1.52 |
| 0.6 | 3.06 | 0.67 | 1.51 |
| 0.8 | 2.45 | 0.40 | 0.99 |
| 1.0 | 2.85 | 0.53 | 1.34 |
| 1.2 | 2.13 | 0.26 | 0.79 |
| 1.4 | 2.38 | 0.34 | 0.96 |
| 1.6 | 2.76 | 0.49 | 1.26 |
| 1.8 | 2.56 | 0.40 | 1.10 |
| 2.0 | 2.57 | 0.37 | 1.15 |
| 2.2 | 2.85 | 0.52 | 1.35 |
| 2.4 | 2.84 | 0.51 | 1.32 |
| 2.6 | 2.94 | 0.55 | 1.43 |
| 2.8 | 2.78 | 0.47 | 1.36 |
| 3.0 | 3.06 | 0.59 | 1.55 |

| Sample 2 (continued) | | | |
|----------------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 3.2 | 6.42 | 4.58 | 65.56 |
| 3.4 | 11.56 | 22.11 | 218.84 |

| Sample 3 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 1.96 | 0.24 | 0.65 |
| 0.2 | 1.75 | 0.20 | 0.51 |
| 0.4 | 1.65 | 0.17 | 0.46 |
| 0.6 | 1.98 | 0.30 | 0.67 |
| 0.8 | 2.14 | 0.32 | 0.75 |
| 1.0 | 1.50 | 0.15 | 0.38 |
| 1.2 | 1.09 | 0.07 | 0.21 |
| 1.4 | 2.13 | 0.32 | 0.79 |
| 1.6 | 1.53 | 0.17 | 0.40 |
| 1.8 | 1.82 | 0.17 | 0.60 |
| 2.0 | 1.31 | 0.10 | 0.29 |
| 2.2 | 2.31 | 0.38 | 0.88 |
| 2.4 | 2.01 | 0.24 | 0.69 |
| 2.6 | 2.16 | 0.33 | 0.76 |
| 2.8 | 1.95 | 0.28 | 0.64 |
| 3.0 | 2.14 | 0.29 | 0.83 |
| 3.2 | 1.99 | 0.26 | 0.66 |
| 3.4 | 1.74 | 0.20 | 0.50 |
| 3.6 | 1.20 | 0.07 | 0.26 |
| 3.8 | 1.47 | 0.13 | 0.39 |
| 4.0 | 1.86 | 0.18 | 0.62 |
| 4.2 | 2.08 | 0.29 | 0.71 |
| 4.4 | 1.88 | 0.22 | 0.60 |
| 4.6 | 2.09 | 0.29 | 0.73 |
| 4.8 | 4.97 | 19.42 | 46.46 |
| 5.0 | 5.37 | 28.05 | 74.51 |
| 5.2 | 8.58 | 32.16 | 236.93 |

| Sample 4 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 2.10 | 0.27 | 0.73 |

| Sample 4 (continued) | | | |
|----------------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.2 | 2.45 | 0.42 | 0.97 |
| 0.4 | 2.40 | 0.40 | 0.93 |
| 0.6 | 2.34 | 0.37 | 0.89 |
| 0.8 | 2.36 | 0.39 | 0.91 |
| 1.0 | 2.28 | 0.34 | 0.85 |
| 1.2 | 2.19 | 0.34 | 0.78 |
| 1.4 | 2.08 | 0.32 | 0.70 |
| 1.6 | 2.35 | 0.37 | 0.90 |
| 1.8 | 2.13 | 0.28 | 0.76 |
| 2.0 | 2.31 | 0.37 | 0.87 |
| 2.2 | 2.24 | 0.33 | 0.82 |
| 2.4 | 1.96 | 0.25 | 0.63 |
| 2.6 | 2.38 | 0.40 | 0.92 |
| 2.8 | 2.14 | 0.32 | 0.75 |
| 3.0 | 2.13 | 0.28 | 0.78 |
| 3.2 | 2.44 | 0.47 | 0.97 |
| 3.4 | 2.04 | 0.27 | 0.69 |
| 3.6 | 2.05 | 0.27 | 0.68 |
| 3.8 | 2.26 | 0.35 | 0.84 |
| 4.0 | 2.11 | 0.31 | 0.73 |
| 4.2 | 5.48 | 8.03 | 51.41 |
| 4.4 | 7.93 | 5.69 | 155.70 |

| Sample 5 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 5.17 | 1.63 | 4.44 |
| 0.2 | 5.14 | 1.61 | 4.42 |
| 0.4 | 5.30 | 1.77 | 4.65 |
| 0.6 | 5.26 | 1.91 | 4.60 |
| 0.8 | 5.35 | 1.82 | 4.72 |
| 1.0 | 5.32 | 1.97 | 4.64 |
| 1.2 | 5.41 | 1.93 | 4.94 |
| 1.4 | 5.03 | 1.63 | 4.23 |
| 1.6 | 5.83 | 2.13 | 5.83 |
| 1.8 | 5.17 | 1.61 | 4.55 |
| 2.0 | 5.05 | 1.73 | 4.20 |
| 2.2 | 5.49 | 1.91 | 5.14 |
| 2.4 | 5.35 | 1.79 | 4.87 |
| 2.6 | 5.33 | 1.93 | 4.79 |
| 2.8 | 5.73 | 2.14 | 5.87 |

| Sample 5 (continued) | | | |
|----------------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 3.0 | 5.37 | 1.95 | 5.17 |
| 3.2 | 5.82 | 2.79 | 7.97 |
| 3.4 | 6.14 | 3.28 | 7.83 |
| 3.6 | 9.24 | 21.44 | 35.52 |
| 3.8 | 13.15 | 61.87 | 141.91 |
| 4.0 | 17.47 | 148.50 | 307.17 |

| Sample 6 (detailed serial section) | | | | | |
|------------------------------------|--------------------------|---------------------------------|---------------------------------|----------------------------|--|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J | Number of vascular bundles | Area fraction of the vascular bundles AF_v |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] | [-] | [%] |
| 0.0 | 2.35 | 0.38 | 0.90 | 26.00 | 1.41 |
| 0.1 | 2.35 | 0.37 | 0.90 | 26.00 | 1.41 |
| 0.4 | 2.35 | 0.37 | 0.90 | 28.00 | 1.54 |
| 0.5 | 2.38 | 0.38 | 0.92 | 28.00 | 1.50 |
| 0.6 | 2.33 | 0.34 | 0.89 | 27.00 | 1.48 |
| 0.7 | 2.31 | 0.35 | 0.88 | 27.00 | 1.51 |
| 0.8 | 2.36 | 0.37 | 0.91 | 26.00 | 1.63 |
| 0.9 | 2.31 | 0.35 | 0.87 | 29.00 | 1.62 |
| 1.0 | 2.38 | 0.38 | 0.92 | 29.00 | 1.56 |
| 1.1 | 2.39 | 0.38 | 0.93 | 31.00 | 1.48 |
| 1.2 | 2.38 | 0.37 | 0.93 | 28.00 | 1.62 |
| 1.3 | 2.28 | 0.36 | 0.85 | 29.00 | 1.56 |
| 1.6 | 1.94 | 0.26 | 0.61 | 28.00 | 1.71 |
| 1.8 | 2.31 | 0.34 | 0.87 | 29.00 | 1.58 |
| 1.9 | 2.45 | 0.40 | 0.98 | 28.00 | 1.48 |
| 2.0 | 2.37 | 0.37 | 0.92 | 31.00 | 1.53 |
| 2.1 | 2.38 | 0.37 | 0.93 | 30.00 | 1.57 |
| 2.2 | 2.44 | 0.40 | 0.98 | 33.00 | 1.72 |
| 2.3 | 2.39 | 0.39 | 0.93 | 34.00 | 1.62 |
| 2.4 | 2.43 | 0.38 | 0.97 | 34.00 | 1.49 |
| 2.5 | 2.43 | 0.40 | 0.97 | 35.00 | 1.35 |
| 2.6 | 2.52 | 0.41 | 1.05 | 36.00 | 1.57 |
| 2.7 | 2.44 | 0.39 | 0.98 | 34.00 | 1.71 |
| 2.8 | 2.43 | 0.40 | 0.97 | 35.00 | 1.50 |
| 3.0 | 2.52 | 0.42 | 1.04 | 36.00 | 1.66 |
| 3.1 | 2.47 | 0.40 | 1.00 | 36.00 | 1.40 |
| 3.2 | 2.41 | 0.38 | 0.96 | 36.00 | 1.70 |
| 3.3 | 2.49 | 0.41 | 1.02 | 39.00 | 1.62 |
| 3.4 | 2.51 | 0.42 | 1.05 | 40.00 | 1.73 |
| 3.5 | 2.53 | 0.42 | 1.07 | 40.00 | 1.66 |
| 3.6 | 2.53 | 0.41 | 1.07 | 39.00 | 1.69 |

| Sample 6 (detailed serial section) (continued) | | | | | |
|--|--------------------------|---------------------------------|---------------------------------|----------------------------|--|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J | Number of vascular bundles | Area fraction of the vascular bundles AF_v |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] | [-] | [%] |
| 3.7 | 2.52 | 0.40 | 1.07 | 38.00 | 1.58 |
| 3.8 | 2.53 | 0.42 | 1.08 | 37.00 | 1.66 |
| 3.9 | 2.60 | 0.44 | 1.15 | 41.00 | 1.55 |
| 4.0 | 2.61 | 0.44 | 1.16 | 38.00 | 1.62 |
| 4.1 | 2.65 | 0.45 | 1.20 | 41.00 | 1.57 |
| 4.2 | 2.62 | 0.43 | 1.18 | 42.00 | 1.62 |
| 4.3 | 2.63 | 0.45 | 1.21 | 45.00 | 1.52 |
| 4.4 | 2.71 | 0.48 | 1.29 | 43.00 | 1.66 |
| 4.5 | 2.72 | 0.47 | 1.32 | 43.00 | 1.57 |
| 4.6 | 2.82 | 0.52 | 1.44 | 42.00 | 1.54 |
| 4.7 | 2.86 | 0.54 | 1.51 | 43.00 | 1.43 |
| 4.9 | 2.92 | 0.59 | 1.62 | 40.00 | 1.43 |
| 5.0 | 3.01 | 0.65 | 1.80 | 41.00 | 1.41 |
| 5.1 | 3.15 | 0.74 | 1.99 | 41.00 | 1.41 |
| 5.2 | 3.24 | 0.83 | 2.22 | 40.00 | 1.31 |
| 5.3 | 3.54 | 1.12 | 2.72 | 42.00 | 1.19 |
| 5.4 | 3.69 | 1.38 | 3.20 | 43.00 | 1.32 |
| 5.5 | 3.93 | 1.78 | 4.05 | 44.00 | 1.26 |
| 5.6 | 4.72 | 4.49 | 7.82 | 43.00 | 1.91 |
| 5.7 | 5.23 | 7.17 | 11.09 | 45.00 | 1.29 |
| 5.8 | 5.64 | 8.99 | 15.30 | 44.00 | 1.11 |
| 5.9 | 5.81 | 9.55 | 16.19 | 43.00 | 1.60 |
| 6.0 | 6.26 | 14.67 | 22.64 | 43.00 | 1.65 |
| 6.1 | 6.95 | 17.22 | 28.50 | 49.00 | 1.10 |

Explanations:

basal end of the sample => section height: 0.0 mm

| Sample 1 | | | |
|----------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 5.04 | 2.00 | 4.05 |
| 0.2 | 5.12 | 2.09 | 4.18 |
| 0.4 | 5.30 | 2.23 | 4.47 |
| 0.6 | 5.28 | 2.20 | 4.45 |
| 0.8 | 5.44 | 2.36 | 4.72 |
| 1.0 | 5.46 | 2.36 | 4.77 |
| 1.2 | 5.45 | 2.37 | 4.75 |
| 1.4 | 5.45 | 2.35 | 4.75 |
| 1.6 | 5.17 | 2.07 | 4.43 |
| 1.8 | 5.51 | 2.37 | 4.85 |
| 2.0 | 5.58 | 2.48 | 5.01 |
| 2.2 | 5.58 | 2.52 | 5.02 |
| 2.4 | 5.70 | 2.59 | 5.26 |
| 2.6 | 5.57 | 2.52 | 5.16 |
| 2.8 | 5.89 | 2.92 | 5.62 |
| 3.0 | 5.77 | 2.66 | 5.35 |
| 3.2 | 5.18 | 2.09 | 4.34 |
| 3.4 | 6.04 | 3.31 | 5.95 |
| 3.6 | 5.57 | 2.84 | 5.05 |
| 3.8 | 5.88 | 3.20 | 5.59 |
| 4.0 | 5.67 | 2.84 | 5.23 |
| 4.2 | 6.22 | 3.53 | 6.34 |
| 4.4 | 6.72 | 4.20 | 7.29 |
| 4.6 | 7.38 | 4.79 | 8.74 |
| 4.8 | 7.80 | 5.05 | 9.75 |
| 5.0 | 10.59 | 8.22 | 18.16 |
| 5.2 | 15.19 | 15.24 | 39.80 |
| 5.4 | 28.83 | 52.91 | 142.54 |

| Sample 2 | | | |
|----------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 4.18 | 1.16 | 2.83 |
| 0.2 | 4.36 | 1.23 | 3.12 |
| 0.4 | 4.45 | 1.15 | 4.41 |
| 0.6 | 4.42 | 1.40 | 3.14 |
| 0.8 | 4.21 | 1.25 | 2.85 |
| 1.0 | 3.52 | 0.92 | 2.09 |
| 1.2 | 4.33 | 1.30 | 3.04 |
| 1.4 | 4.29 | 1.42 | 2.99 |
| 1.6 | 4.45 | 1.46 | 3.21 |

| Sample 2 (continued) | | | |
|----------------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 1.8 | 4.39 | 1.35 | 3.14 |
| 2.0 | 4.35 | 1.32 | 3.05 |
| 2.2 | 4.34 | 1.37 | 3.02 |
| 2.4 | 4.36 | 1.34 | 3.05 |
| 2.6 | 4.45 | 1.47 | 3.19 |
| 2.8 | 4.37 | 1.37 | 3.08 |
| 3.0 | 4.39 | 1.43 | 3.10 |
| 3.2 | 4.39 | 1.39 | 3.10 |
| 3.4 | 4.29 | 1.38 | 2.94 |
| 3.6 | 4.24 | 1.35 | 2.88 |
| 3.8 | 4.26 | 1.34 | 2.92 |
| 4.0 | 4.49 | 1.46 | 3.23 |
| 4.2 | 4.52 | 1.50 | 3.27 |
| 4.4 | 4.65 | 1.52 | 3.47 |
| 4.6 | 5.05 | 1.66 | 4.18 |
| 4.8 | 5.29 | 1.78 | 4.60 |
| 5.0 | 6.22 | 2.24 | 6.54 |
| 5.2 | 6.64 | 2.55 | 7.68 |
| 5.4 | 10.26 | 6.44 | 21.99 |
| 5.6 | 17.12 | 18.08 | 55.62 |

| Sample 3 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 5.67 | 2.25 | 5.18 |
| 0.2 | 5.77 | 2.33 | 5.36 |
| 0.4 | 6.25 | 2.51 | 6.43 |
| 0.6 | 6.02 | 2.54 | 5.84 |
| 0.8 | 5.81 | 2.37 | 5.44 |
| 1.0 | 5.57 | 2.10 | 5.03 |
| 1.2 | 5.57 | 2.18 | 5.00 |
| 1.4 | 6.00 | 2.43 | 5.84 |
| 1.6 | 5.86 | 2.38 | 5.53 |
| 1.8 | 6.23 | 2.63 | 6.30 |
| 2.0 | 5.97 | 2.36 | 5.80 |
| 2.2 | 6.13 | 2.39 | 6.16 |
| 2.4 | 6.37 | 2.68 | 6.59 |
| 2.6 | 6.85 | 3.19 | 7.60 |
| 2.8 | 6.57 | 2.89 | 6.99 |
| 3.0 | 6.77 | 3.10 | 7.40 |
| 3.2 | 6.88 | 3.20 | 7.65 |

| Sample 3 (continued) | | | |
|----------------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 3.4 | 6.86 | 3.23 | 7.60 |
| 3.6 | 6.93 | 3.41 | 7.73 |
| 3.8 | 7.03 | 3.55 | 7.92 |
| 4.0 | 6.93 | 3.61 | 7.67 |
| 4.2 | 7.35 | 4.18 | 8.63 |
| 4.4 | 7.61 | 4.53 | 9.25 |
| 4.6 | 7.83 | 5.38 | 10.08 |
| 4.8 | 7.69 | 5.14 | 9.48 |
| 5.0 | 7.35 | 5.09 | 8.73 |
| 5.2 | 7.40 | 4.63 | 8.87 |
| 5.4 | 8.06 | 6.04 | 10.50 |
| 5.6 | 8.45 | 6.49 | 11.50 |
| 5.8 | 12.70 | 15.35 | 27.06 |
| 6.0 | 21.75 | 42.01 | 76.70 |
| 6.2 | 42.00 | 141.75 | 308.43 |

| Sample 4 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 6.25 | 2.53 | 6.37 |
| 0.2 | 6.88 | 2.94 | 7.78 |
| 0.4 | 7.41 | 3.38 | 9.09 |
| 0.6 | 6.04 | 2.58 | 5.85 |
| 0.8 | 5.63 | 2.36 | 5.06 |
| 1.0 | 5.39 | 1.87 | 4.86 |
| 1.2 | 6.05 | 2.66 | 5.85 |
| 1.4 | 5.66 | 2.37 | 5.12 |
| 1.6 | 5.75 | 2.38 | 5.29 |
| 1.8 | 5.74 | 2.47 | 5.26 |
| 2.0 | 5.60 | 2.35 | 5.00 |
| 2.2 | 5.71 | 2.32 | 5.23 |
| 2.4 | 5.57 | 2.31 | 4.95 |
| 2.6 | 5.57 | 2.31 | 4.96 |
| 2.8 | 5.53 | 2.32 | 4.88 |
| 3.0 | 5.50 | 2.22 | 4.86 |
| 3.2 | 5.60 | 2.35 | 5.02 |
| 3.4 | 5.53 | 2.35 | 4.89 |
| 3.6 | 5.54 | 2.37 | 4.89 |
| 3.8 | 5.64 | 2.38 | 5.10 |
| 4.0 | 5.61 | 2.46 | 5.03 |
| 4.2 | 5.48 | 2.46 | 4.79 |

| Sample 4 (continued) | | | |
|----------------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 4.4 | 5.97 | 2.77 | 5.69 |
| 4.6 | 5.73 | 2.59 | 5.26 |
| 4.8 | 5.45 | 2.25 | 4.78 |
| 5.0 | 5.81 | 2.75 | 5.40 |
| 5.2 | 6.06 | 3.01 | 5.87 |
| 5.4 | 5.91 | 2.88 | 5.59 |
| 5.6 | 5.81 | 2.71 | 5.40 |
| 5.8 | 6.16 | 2.93 | 6.05 |
| 6.0 | 5.97 | 2.83 | 5.70 |
| 6.2 | 6.22 | 2.75 | 6.27 |
| 6.4 | 6.67 | 2.95 | 7.30 |
| 6.6 | 12.49 | 13.09 | 30.38 |

| Sample 5 | | | |
|----------------|-------------------------------|--------------------------------------|--------------------------------------|
| Section height | Cross-sectional area <i>A</i> | Axial second moment of area <i>I</i> | Polar second moment of area <i>J</i> |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 0.0 | 5.05 | 1.80 | 4.12 |
| 0.2 | 5.28 | 1.89 | 4.51 |
| 0.4 | 5.13 | 1.74 | 4.28 |
| 0.6 | 5.12 | 1.80 | 4.23 |
| 0.8 | 5.07 | 1.82 | 4.14 |
| 1.0 | 5.25 | 1.88 | 4.46 |
| 1.2 | 5.32 | 1.90 | 4.58 |
| 1.4 | 5.33 | 1.97 | 4.58 |
| 1.6 | 5.30 | 1.88 | 4.55 |
| 1.8 | 5.27 | 1.98 | 4.48 |
| 2.0 | 4.56 | 1.25 | 3.53 |
| 2.2 | 5.29 | 1.97 | 4.50 |
| 2.4 | 5.43 | 2.06 | 4.84 |
| 2.6 | 5.67 | 2.14 | 5.23 |
| 2.8 | 5.38 | 2.10 | 4.64 |
| 3.0 | 5.67 | 2.27 | 5.20 |
| 3.2 | 6.21 | 2.96 | 6.45 |
| 3.4 | 4.38 | 0.99 | 3.94 |
| 3.6 | 5.58 | 2.19 | 5.05 |
| 3.8 | 6.58 | 2.87 | 7.39 |
| 4.0 | 6.36 | 2.79 | 6.63 |
| 4.2 | 5.62 | 2.42 | 5.21 |
| 4.4 | 4.57 | 0.96 | 4.12 |
| 4.6 | 5.45 | 1.71 | 5.20 |
| 4.8 | 5.94 | 2.41 | 5.76 |

| Sample 5 (continued) | | | |
|----------------------|--------------------------|---------------------------------|---------------------------------|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] |
| 5.0 | 5.64 | 2.10 | 5.45 |
| 5.2 | 6.48 | 2.82 | 6.88 |
| 5.4 | 12.92 | 31.17 | 43.76 |
| 5.6 | 24.55 | 37.21 | 189.23 |

| Sample 6 (detailed serial section) | | | | | |
|------------------------------------|--------------------------|---------------------------------|---------------------------------|----------------------------|--|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J | Number of vascular bundles | Area fraction of the vascular bundles AF_v |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] | [-] | [%] |
| 0.0 | 7.84 | 6.94 | 10.45 | 5.00 | 7.20 |
| 0.1 | 10.69 | 13.38 | 19.69 | 6.00 | 6.07 |
| 0.3 | 11.66 | 16.55 | 23.77 | 6.00 | 6.87 |
| 0.4 | 11.33 | 15.10 | 22.09 | 8.00 | 5.15 |
| 0.5 | 12.12 | 17.56 | 25.65 | 9.00 | 4.98 |
| 0.6 | 7.59 | 6.49 | 9.76 | 8.00 | 5.62 |
| 0.7 | 11.47 | 14.98 | 22.50 | 8.00 | 4.63 |
| 0.8 | 11.26 | 14.74 | 21.78 | 8.00 | 5.27 |
| 0.9 | 7.47 | 6.38 | 9.49 | 7.00 | 5.54 |
| 1.0 | 10.36 | 11.94 | 18.06 | 8.00 | 5.85 |
| 1.1 | 7.22 | 5.69 | 8.75 | 6.00 | 6.17 |
| 1.2 | 10.05 | 11.39 | 17.13 | 7.00 | 5.54 |
| 1.3 | 10.57 | 11.96 | 18.62 | 7.00 | 5.43 |
| 1.4 | 10.64 | 12.43 | 19.12 | 7.00 | 5.63 |
| 1.5 | 9.91 | 10.73 | 16.48 | 7.00 | 5.42 |
| 1.6 | 9.63 | 9.74 | 15.43 | 6.00 | 5.90 |
| 1.7 | 10.71 | 12.32 | 19.26 | 6.00 | 6.20 |
| 1.8 | 8.32 | 7.14 | 11.42 | 6.00 | 6.35 |
| 1.9 | 9.72 | 9.59 | 15.53 | 7.00 | 5.72 |
| 2.0 | 9.68 | 9.49 | 15.38 | 7.00 | 6.36 |
| 2.1 | 10.32 | 10.91 | 17.54 | 7.00 | 6.92 |
| 2.2 | 8.30 | 6.87 | 11.25 | 8.00 | 6.08 |
| 2.3 | 8.54 | 6.63 | 11.80 | 9.00 | 7.66 |
| 2.4 | 8.73 | 7.55 | 12.45 | 7.00 | 7.49 |
| 2.5 | 6.66 | 4.23 | 7.22 | 8.00 | 6.61 |
| 2.6 | 9.42 | 8.12 | 14.31 | 10.00 | 5.56 |
| 2.7 | 10.86 | 10.87 | 19.10 | 9.00 | 5.44 |
| 2.8 | 11.25 | 11.38 | 20.44 | 10.00 | 4.76 |
| 2.9 | 11.80 | 11.96 | 22.44 | 10.00 | 4.31 |
| 3.0 | 12.00 | 12.47 | 23.06 | 10.00 | 4.35 |
| 3.1 | 12.13 | 12.44 | 23.62 | 10.00 | 3.48 |
| 3.2 | 13.34 | 15.07 | 28.51 | 10.00 | 4.03 |
| 3.3 | 13.16 | 14.47 | 27.75 | 9.00 | 3.24 |

| Sample 6 (detailed serial section) (continued) | | | | | |
|--|--------------------------|---------------------------------|---------------------------------|----------------------------|--|
| Section height | Cross-sectional area A | Axial second moment of area I | Polar second moment of area J | Number of vascular bundles | Area fraction of the vascular bundles AF_v |
| [mm] | [mm ²] | [mm ⁴] | [mm ⁴] | [-] | [%] |
| 3.4 | 13.26 | 14.57 | 28.23 | 9.00 | 3.38 |
| 3.5 | 13.94 | 15.58 | 31.17 | 9.00 | 2.97 |
| 3.6 | 15.27 | 18.71 | 37.55 | 9.00 | 2.53 |
| 3.7 | 16.13 | 20.41 | 42.21 | 9.00 | 2.84 |
| 3.8 | 17.00 | 22.58 | 46.94 | 8.00 | 2.25 |
| 3.9 | 18.51 | 26.82 | 55.58 | 8.00 | 2.30 |
| 4.0 | 20.34 | 31.15 | 67.77 | 8.00 | 2.11 |
| 4.1 | 20.57 | 32.58 | 74.12 | 8.00 | 1.94 |
| 4.2 | 25.49 | 53.36 | 105.94 | 8.00 | 1.64 |
| 4.4 | 25.45 | 62.31 | 117.32 | 8.00 | 1.68 |
| 4.5 | 30.09 | 93.62 | 175.69 | 8.00 | 1.51 |
| 4.6 | 26.29 | 67.19 | 120.48 | 8.00 | 1.54 |
| 4.7 | 28.92 | 106.33 | 171.65 | 8.00 | 2.04 |

Explanations:

basal end of the sample => section height: 0.0 mm