



Q= Cantidad de flujo (l/s) R= Pérdida de presión (Kpa/m) V= Tasa de flujo (m/s)

PÉRDIDA DE CARGA Y CÁLCULO DE FLUJO EN DONSEN PPR® PN20 EN CIRCULACIÓN

20°C

| Q | 16 mm | | 20 mm | | 25 mm | | 32 mm | | 40 mm | | 50 mm | | 63 mm | | 75 mm | | 90 mm | | 110 mm | | 125 mm | | 160 mm | |
|------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|------|-------|-----|-------|-----|-------|-----|--------|-----|--------|-----|--------|-----|
| | R | V | R | V | R | V | R | V | R | V | R | V | R | V | R | V | R | V | R | V | R | V | R | V |
| 0.01 | 0.023 | 0.1 | 0.01 | 0.1 | | | | | | | | | | | | | | | | | | | | |
| 0.02 | 0.046 | 0.2 | 0.019 | 0.1 | 0.008 | 0.1 | 0.003 | 0.1 | | | | | | | | | | | | | | | | |
| 0.03 | 0.149 | 0.3 | 0.054 | 0.2 | 0.012 | 0.1 | 0.004 | 0.1 | 0.002 | 0.1 | | | | | | | | | | | | | | |
| 0.04 | 0.244 | 0.4 | 0.088 | 0.3 | 0.031 | 0.2 | 0.006 | 0.1 | 0.002 | 0.1 | | | | | | | | | | | | | | |
| 0.05 | 0.359 | 0.5 | 0.129 | 0.3 | 0.045 | 0.2 | 0.014 | 0.1 | 0.003 | 0.1 | 0.001 | 0.1 | | | | | | | | | | | | |
| 0.06 | 0.492 | 0.6 | 0.176 | 0.4 | 0.061 | 0.2 | 0.019 | 0.1 | 0.007 | 0.1 | 0.001 | 0.1 | | | | | | | | | | | | |
| 0.07 | 0.643 | 0.7 | 0.230 | 0.4 | 0.080 | 0.3 | 0.025 | 0.2 | 0.009 | 0.1 | 0.003 | 0.1 | 0.001 | 0.1 | | | | | | | | | | |
| 0.08 | 0.812 | 0.8 | 0.290 | 0.5 | 0.101 | 0.3 | 0.032 | 0.2 | 0.011 | 0.1 | 0.004 | 0.1 | 0.001 | 0.1 | | | | | | | | | | |
| 0.09 | 0.999 | 0.9 | 0.357 | 0.6 | 0.123 | 0.4 | 0.039 | 0.2 | 0.013 | 0.1 | 0.005 | 0.1 | 0.001 | 0.1 | | | | | | | | | | |
| 0.1 | 1.202 | 1.0 | 0.428 | 0.6 | 0.148 | 0.4 | 0.046 | 0.2 | 0.016 | 0.2 | 0.006 | 0.1 | 0.002 | 0.1 | | | | | | | | | | |
| 0.12 | 1.658 | 1.1 | 0.588 | 0.7 | 0.203 | 0.5 | 0.063 | 0.3 | 0.022 | 0.2 | 0.007 | 0.1 | 0.003 | 0.1 | | | | | | | | | | |
| 0.16 | 2.762 | 1.5 | 0.976 | 1.0 | 0.336 | 0.6 | 0.104 | 0.4 | 0.036 | 0.3 | 0.012 | 0.2 | 0.004 | 0.1 | 0.001 | 0.1 | | | | | | | | |
| 0.18 | 3.408 | 1.7 | 1.203 | 1.1 | 0.413 | 0.7 | 0.128 | 0.4 | 0.044 | 0.3 | 0.015 | 0.2 | 0.005 | 0.1 | 0.002 | 0.1 | | | | | | | | |
| 0.2 | 4.116 | 1.9 | 1.450 | 1.2 | 0.497 | 0.8 | 0.154 | 0.5 | 0.053 | 0.3 | 0.018 | 0.2 | 0.006 | 0.1 | 0.003 | 0.1 | 0.001 | 0.1 | | | | | | |
| 0.3 | 8.552 | 2.8 | 2.992 | 1.8 | 1.019 | 1.2 | 0.314 | 0.7 | 0.107 | 0.5 | 0.036 | 0.3 | 0.012 | 0.2 | 0.005 | 0.1 | 0.002 | 0.1 | | | | | | |
| 0.4 | 14.445 | 3.8 | 5.025 | 2.5 | 1.704 | 1.6 | 0.523 | 1.0 | 0.178 | 0.6 | 0.060 | 0.4 | 0.020 | 0.2 | 0.009 | 0.2 | 0.004 | 0.1 | 0.001 | 0.1 | 0.001 | 0.1 | | |
| 0.5 | | | 7.536 | 3.1 | 2.545 | 2.0 | 0.779 | 1.2 | 0.264 | 0.8 | 0.088 | 0.5 | 0.029 | 0.3 | 0.013 | 0.2 | 0.005 | 0.2 | 0.002 | 0.1 | 0.001 | 0.1 | | |
| 0.6 | | | 10.514 | 3.7 | 3.538 | 2.4 | 1.079 | 1.4 | 0.365 | 0.9 | 0.122 | 0.6 | 0.041 | 0.4 | 0.018 | 0.3 | 0.008 | 0.2 | 0.003 | 0.1 | 0.002 | 0.1 | | |
| 0.7 | | | | | 4.681 | 2.8 | 1.424 | 1.7 | 0.481 | 1.1 | 0.160 | 0.7 | 0.053 | 0.4 | 0.023 | 0.3 | 0.010 | 0.2 | 0.004 | 0.1 | 0.002 | 0.1 | 0.001 | 0.1 |
| 0.8 | | | | | 5.971 | 3.1 | 1.811 | 1.9 | 0.611 | 1.2 | 0.203 | 0.8 | 0.067 | 0.5 | 0.029 | 0.4 | 0.012 | 0.2 | 0.005 | 0.2 | 0.003 | 0.1 | 0.001 | 0.1 |
| 0.9 | | | | | 7.406 | 3.5 | 2.241 | 2.2 | 0.754 | 1.4 | 0.251 | 0.9 | 0.083 | 0.6 | 0.036 | 0.4 | 0.015 | 0.3 | 0.006 | 0.2 | 0.003 | 0.1 | 0.001 | 0.1 |
| 1.0 | | | | | 8.986 | 3.9 | 2.713 | 2.4 | 0.912 | 1.5 | 0.303 | 1.0 | 0.100 | 0.6 | 0.044 | 0.4 | 0.018 | 0.3 | 0.007 | 0.2 | 0.004 | 0.2 | 0.001 | 0.1 |
| 1.2 | | | | | 12.578 | 4.7 | 3.782 | 2.9 | 1.267 | 1.8 | 0.419 | 1.2 | 0.138 | 0.7 | 0.060 | 0.5 | 0.025 | 0.4 | 0.010 | 0.2 | 0.005 | 0.2 | 0.002 | 0.1 |
| 1.4 | | | | | 16.726 | 5.5 | 5.013 | 3.4 | 1.675 | 2.2 | 0.553 | 1.4 | 0.182 | 0.9 | 0.079 | 0.6 | 0.033 | 0.4 | 0.013 | 0.3 | 0.007 | 0.2 | 0.002 | 0.1 |
| 1.6 | | | | | | | 6.407 | 3.9 | 2.135 | 2.5 | 0.704 | 1.6 | 0.231 | 1.0 | 0.101 | 0.7 | 0.042 | 0.5 | 0.016 | 0.3 | 0.009 | 0.3 | 0.003 | 0.2 |
| 1.8 | | | | | | | 7.959 | 4.3 | 2.647 | 2.8 | 0.871 | 1.8 | 0.285 | 1.1 | 0.124 | 0.8 | 0.052 | 0.5 | 0.020 | 0.4 | 0.010 | 0.3 | 0.003 | 0.2 |
| 2.0 | | | | | | | 9.670 | 4.8 | 3.209 | 3.1 | 1.054 | 2.0 | 0.345 | 1.2 | 0.150 | 0.9 | 0.063 | 0.6 | 0.024 | 0.4 | 0.013 | 0.3 | 0.004 | 0.2 |
| 2.2 | | | | | | | 11.539 | 5.3 | 3.822 | 3.4 | 1.253 | 2.1 | 0.410 | 1.4 | 0.178 | 1.0 | 0.074 | 0.7 | 0.028 | 0.4 | 0.015 | 0.3 | 0.005 | 0.2 |
| 2.4 | | | | | | | 13.564 | 5.8 | 4.485 | 3.7 | 1.468 | 2.3 | 0.479 | 1.5 | 0.208 | 1.0 | 0.087 | 0.7 | 0.033 | 0.5 | 0.017 | 0.4 | 0.005 | 0.2 |
| 2.6 | | | | | | | 15.745 | 6.3 | 5.198 | 4.0 | 1.699 | 2.5 | 0.554 | 1.6 | 0.240 | 1.1 | 0.100 | 0.8 | 0.038 | 0.5 | 0.020 | 0.4 | 0.006 | 0.3 |
| 2.8 | | | | | | | 18.082 | 6.7 | 5.960 | 4.3 | 1.946 | 2.7 | 0.633 | 1.7 | 0.275 | 1.2 | 0.114 | 0.8 | 0.043 | 0.6 | 0.023 | 0.4 | 0.007 | 0.3 |
| 3.0 | | | | | | | | | 6.771 | 4.6 | 2.208 | 2.9 | 0.718 | 1.8 | 0.311 | 1.3 | 0.129 | 0.9 | 0.049 | 0.6 | 0.026 | 0.5 | 0.008 | 0.3 |
| 3.2 | | | | | | | | | 7.631 | 4.9 | 2.485 | 3.1 | 0.807 | 2.0 | 0.350 | 1.4 | 0.145 | 1.0 | 0.055 | 0.6 | 0.029 | 0.5 | 0.009 | 0.3 |
| 3.4 | | | | | | | | | 8.539 | 5.2 | 2.777 | 3.3 | 0.901 | 2.1 | 0.390 | 1.5 | 0.162 | 1.0 | 0.061 | 0.7 | 0.032 | 0.5 | 0.010 | 0.3 |
| 3.6 | | | | | | | | | 9.497 | 5.5 | 3.085 | 3.5 | 1.000 | 2.2 | 0.433 | 1.6 | 0.180 | 1.1 | 0.068 | 0.7 | 0.036 | 0.6 | 0.011 | 0.3 |
| 3.8 | | | | | | | | | 10.502 | 5.8 | 3.408 | 3.7 | 1.104 | 2.3 | 0.477 | 1.7 | 0.198 | 1.2 | 0.075 | 0.8 | 0.040 | 0.6 | 0.012 | 0.4 |
| 4.0 | | | | | | | | | 11.556 | 6.1 | 3.746 | 4.0 | 1.212 | 2.5 | 0.524 | 1.7 | 0.217 | 1.2 | 0.082 | 0.8 | 0.043 | 0.6 | 0.013 | 0.4 |
| 4.2 | | | | | | | | | 12.658 | 6.5 | 4.100 | 4.1 | 1.325 | 2.6 | 0.572 | 1.8 | 0.237 | 1.3 | 0.089 | 0.8 | 0.047 | 0.7 | 0.014 | 0.4 |
| 4.4 | | | | | | | | | 13.809 | 6.8 | 4.468 | 4.3 | 1.443 | 2.7 | 0.623 | 1.9 | 0.258 | 1.3 | 0.097 | 0.9 | 0.051 | 0.7 | 0.016 | 0.4 |
| 4.6 | | | | | | | | | 15.007 | 7.1 | 4.851 | 4.5 | 1.566 | 2.8 | 0.675 | 2.0 | 0.280 | 1.4 | 0.105 | 0.9 | 0.056 | 0.7 | 0.017 | 0.4 |
| 4.8 | | | | | | | | | 16.253 | 7.4 | 5.249 | 4.7 | 1.693 | 2.9 | 0.730 | 2.1 | 0.302 | 1.5 | 0.114 | 1.0 | 0.060 | 0.7 | 0.018 | 0.5 |
| 5.0 | | | | | | | | | 17.547 | 7.7 | 5.662 | 4.9 | 1.825 | 3.1 | 0.786 | 2.2 | 0.325 | 1.5 | 0.122 | 1.0 | 0.065 | 0.8 | 0.020 | 0.5 |
| 5.2 | | | | | | | | | 18.889 | 8.0 | 6.089 | 5.1 | 1.961 | 3.2 | 0.844 | 2.3 | 0.349 | 1.6 | 0.131 | 1.0 | 0.069 | 0.8 | 0.021 | 0.5 |
| 5.4 | | | | | | | | | | | 6.532 | 5.3 | 2.102 | 3.3 | 0.905 | 2.3 | 0.374 | 1.6 | 0.140 | 1.1 | 0.074 | 0.8 | 0.023 | 0.5 |
| 5.6 | | | | | | | | | | | 6.989 | 5.4 | 2.248 | 3.4 | 0.967 | 2.4 | 0.400 | 1.7 | 0.150 | 1.1 | 0.079 | 0.9 | 0.024 | 0.5 |
| 5.8 | | | | | | | | | | | 7.461 | 5.6 | 2.398 | 3.6 | 1.031 | 2.5 | 0.426 | 1.8 | 0.160 | 1.2 | 0.085 | 0.9 | 0.026 | 0.6 |
| 6.0 | | | | | | | | | | | 7.948 | 5.6 | 2.552 | 3.7 | 1.097 | 2.6 | 0.453 | 1.8 | 0.170 | 1.2 | 0.090 | 0.9 | 0.027 | 0.6 |
| 6.2 | | | | | | | | | | | 8.450 | 6.0 | 2.712 | 3.8 | 1.165 | 2.7 | 0.481 | 1.9 | 0.180 | 1.3 | 0.095 | 1.0 | 0.029 | 0.6 |
| 6.4 | | | | | | | | | | | 8.966 | 6.2 | 2.876 | 3.9 | 1.235 | 2.8 | 0.510 | 1.9 | 0.191 | 1.3 | 0.101 | 1.0 | 0.031 | 0.6 |
| 6.6 | | | | | | | | | | | 9.497 | 6.4 | 3.044 | 4.0 | 1.307 | 2.9 | 0.539 | 2.0 | 0.202 | 1.3 | 0.107 | 1.0 | 0.033 | 0.6 |
| 6.8 | | | | | | | | | | | 10.042 | 6.6 | 3.217 | 4.2 | 1.380 | 3.0 | 0.569 | 2.1 | 0.213 | 1.4 | 0.113 | 1.1 | 0.034 | 0.6 |
| 7.0 | | | | | | | | | | | 10.602 | 6.8 | 3.394 | 4.3 | 1.456 | 3.0 | 0.600 | 2.1 | 0.225 | 1.4 | 0.119 | 1.1 | 0.036 | 0.7 |
| 7.5 | | | | | | | | | | | 12.066 | 7.3 | 3.857 | 4.6 | 1.653 | 3.3 | 0.681 | 2.3 | 0.255 | 1.5 | 0.134 | 1.2 | 0.041 | 0.7 |
| 8.0 | | | | | | | | | | | 13.621 | 7.8 | 4.348 | 4.9 | 1.862 | 3.5 | 0.766 | 2.4 | 0.286 | 1.6 | 0.151 | 1.2 | 0.046 | 0.8 |
| 9.0 | | | | | | | | | | | 17.068 | 8.7 | 5.414 | 5.5 | 2.314 | 3.9 | 0.951 | 2.7 | 0.355 | 1.8 | 0.187 | 1.4 | 0.057 | 0.9 |
| 10.0 | | | | | | | | | | | 20.818 | 9.7 | 6.591 | 6.1 | 2.813 | 4.3 | 1.155 | 3.0 | 0.430 | 2.0 | 0.227 | 1.5 | 0.069 | 0.9 |
| 12.0 | | | | | | | | | | | 29.278 | 11.7 | 9.064 | 7.3 | 3.870 | 5.2 | 1.566 | 3.6 | 0.592 | 2.4 | 0.316 | 1.9 | 0.096 | 1.1 |



Q= Cantidad de flujo (l/s) R= Pérdida de presión (Kpa/m) V= Tasa de flujo (m/s)

PÉRDIDA DE CARGA Y CÁLCULO DE FLUJO EN DONSEN PPR® PN20 EN CIRCULACIÓN

60°C

| Q | 16 mm | | 20 mm | | 25 mm | | 32 mm | | 40 mm | | 50 mm | | 63 mm | | 75 mm | | 90 mm | | 110 mm | | 125 mm | | 160 mm | | |
|------|----------|------|----------|------|---------|------|---------|------|--------|------|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|--------|-----|--------|-----|-------|
| | R | V | R | V | R | V | R | V | R | V | R | V | R | V | R | V | R | V | R | V | R | V | R | V | |
| 0.01 | 0.018 | 0.1 | 0.007 | 0.1 | 0.002 | 0.1 | | | | | | | | | | | | | | | | | | | |
| 0.02 | 0.059 | 0.2 | 0.021 | 0.1 | 0.007 | 0.1 | 0.002 | 0.1 | | | | | | | | | | | | | | | | | |
| 0.03 | 0.119 | 0.3 | 0.043 | 0.2 | 0.015 | 0.1 | 0.004 | 0.1 | 0.002 | 0.1 | | | | | | | | | | | | | | | |
| 0.04 | 0.197 | 0.4 | 0.070 | 0.3 | 0.024 | 0.2 | 0.007 | 0.1 | 0.003 | 0.1 | | | | | | | | | | | | | | | |
| 0.05 | 0.291 | 0.5 | 0.104 | 0.3 | 0.036 | 0.2 | 0.011 | 0.1 | 0.004 | 0.1 | 0.001 | 0.1 | | | | | | | | | | | | | |
| 0.06 | 0.402 | 0.6 | 0.143 | 0.4 | 0.049 | 0.2 | 0.015 | 0.1 | 0.005 | 0.1 | 0.002 | 0.1 | | | | | | | | | | | | | |
| 0.07 | 0.528 | 0.7 | 0.187 | 0.4 | 0.064 | 0.3 | 0.019 | 0.2 | 0.007 | 0.1 | 0.002 | 0.1 | | | | | | | | | | | | | |
| 0.08 | 0.670 | 0.8 | 0.237 | 0.5 | 0.081 | 0.3 | 0.024 | 0.2 | 0.008 | 0.1 | 0.003 | 0.1 | 0.001 | 0.1 | | | | | | | | | | | |
| 0.09 | 0.827 | 0.9 | 0.292 | 0.6 | 0.100 | 0.4 | 0.030 | 0.2 | 0.010 | 0.1 | 0.004 | 0.1 | 0.001 | 0.1 | | | | | | | | | | | |
| 0.1 | 1.000 | 1.0 | 0.352 | 0.6 | 0.120 | 0.4 | 0.036 | 0.2 | 0.012 | 0.2 | 0.004 | 0.1 | 0.001 | 0.1 | | | | | | | | | | | |
| 0.12 | 1.388 | 1.1 | 0.487 | 0.7 | 0.166 | 0.5 | 0.049 | 0.3 | 0.017 | 0.2 | 0.006 | 0.1 | 0.002 | 0.1 | 0.001 | 0.1 | | | | | | | | | |
| 0.16 | 2.339 | 1.5 | 0.816 | 1.0 | 0.277 | 0.6 | 0.082 | 0.4 | 0.028 | 0.2 | 0.010 | 0.2 | 0.003 | 0.1 | 0.001 | 0.1 | 0.001 | 0.1 | | | | | | | |
| 0.18 | 2.899 | 1.7 | 1.010 | 1.1 | 0.343 | 0.7 | 0.101 | 0.4 | 0.035 | 0.3 | 0.012 | 0.2 | 0.004 | 0.1 | 0.002 | 0.1 | 0.001 | 0.1 | | | | | | | |
| 0.2 | 3.516 | 1.9 | 1.222 | 1.2 | 0.414 | 0.8 | 0.122 | 0.5 | 0.042 | 0.3 | 0.014 | 0.2 | 0.005 | 0.1 | 0.002 | 0.1 | 0.001 | 0.1 | | | | | | | |
| 0.3 | 7.430 | 2.8 | 2.560 | 1.8 | 0.860 | 1.2 | 0.251 | 0.7 | 0.086 | 0.5 | 0.030 | 0.3 | 0.010 | 0.2 | 0.004 | 0.1 | 0.002 | 0.1 | 0.001 | 0.1 | | | | | |
| 0.4 | 12.707 | 3.8 | 4.349 | 2.5 | 1.453 | 1.6 | 0.422 | 1.0 | 0.143 | 0.6 | 0.049 | 0.4 | 0.016 | 0.2 | 0.007 | 0.2 | 0.003 | 0.1 | 0.001 | 0.1 | 0.001 | 0.1 | | | |
| 0.5 | 19.333 | 4.7 | 6.582 | 3.1 | 2.188 | 2.0 | 0.633 | 1.2 | 0.214 | 0.8 | 0.073 | 0.5 | 0.024 | 0.3 | 0.010 | 0.2 | 0.004 | 0.2 | 0.002 | 0.1 | 0.001 | 0.1 | | | |
| 0.6 | 27.298 | 5.7 | 9.254 | 3.7 | 3.064 | 2.4 | 0.882 | 1.4 | 0.298 | 0.9 | 0.102 | 0.6 | 0.033 | 0.4 | 0.014 | 0.3 | 0.006 | 0.2 | 0.002 | 0.1 | 0.001 | 0.1 | | | |
| 0.7 | 36.598 | 6.6 | 12.362 | 4.3 | 4.078 | 2.8 | 1.170 | 1.7 | 0.394 | 1.1 | 0.134 | 0.7 | 0.043 | 0.4 | 0.019 | 0.3 | 0.008 | 0.2 | 0.003 | 0.1 | 0.002 | 0.1 | 0.001 | 0.1 | 0.001 |
| 0.8 | 47.228 | 7.6 | 15.904 | 4.9 | 5.230 | 3.1 | 1.496 | 1.9 | 0.502 | 1.2 | 0.171 | 0.8 | 0.055 | 0.5 | 0.024 | 0.3 | 0.010 | 0.2 | 0.004 | 0.2 | 0.002 | 0.1 | 0.001 | 0.1 | 0.001 |
| 0.9 | 59.188 | 8.5 | 19.878 | 5.5 | 6.519 | 3.5 | 1.859 | 2.1 | 0.623 | 1.4 | 0.212 | 0.9 | 0.068 | 0.6 | 0.030 | 0.4 | 0.012 | 0.3 | 0.005 | 0.2 | 0.003 | 0.1 | 0.001 | 0.1 | 0.001 |
| 1.0 | 72.475 | 9.5 | 24.284 | 6.1 | 7.944 | 3.9 | 2.259 | 2.4 | 0.755 | 1.5 | 0.256 | 1.0 | 0.082 | 0.6 | 0.036 | 0.4 | 0.015 | 0.3 | 0.006 | 0.2 | 0.003 | 0.2 | 0.001 | 0.1 | 0.001 |
| 1.2 | 106.026 | 11.6 | 34.386 | 7.4 | 11.200 | 4.7 | 3.170 | 2.8 | 1.056 | 1.8 | 0.357 | 1.2 | 0.114 | 0.7 | 0.050 | 0.5 | 0.020 | 0.4 | 0.008 | 0.2 | 0.004 | 0.2 | 0.001 | 0.1 | 0.001 |
| 1.4 | 138.877 | 13.3 | 46.205 | 8.6 | 14.997 | 5.5 | 4.227 | 3.3 | 1.404 | 2.1 | 0.474 | 1.4 | 0.151 | 0.9 | 0.066 | 0.6 | 0.027 | 0.4 | 0.010 | 0.3 | 0.005 | 0.2 | 0.002 | 0.1 | 0.002 |
| 1.6 | 180.022 | 15.1 | 59.740 | 9.8 | 19.332 | 6.3 | 5.430 | 3.8 | 1.798 | 2.4 | 0.605 | 1.6 | 0.192 | 1.0 | 0.083 | 0.7 | 0.034 | 0.5 | 0.013 | 0.3 | 0.007 | 0.3 | 0.002 | 0.2 | 0.002 |
| 1.8 | 226.461 | 17.0 | 74.988 | 11.1 | 24.205 | 7.1 | 6.778 | 4.3 | 2.238 | 2.7 | 0.752 | 1.8 | 0.238 | 1.1 | 0.103 | 0.8 | 0.042 | 0.5 | 0.016 | 0.4 | 0.009 | 0.3 | 0.003 | 0.2 | 0.003 |
| 2.0 | 278.191 | 18.9 | 91.948 | 12.3 | 29.613 | 7.9 | 8.269 | 4.7 | 2.725 | 3.0 | 0.913 | 1.9 | 0.289 | 1.2 | 0.125 | 0.9 | 0.051 | 0.6 | 0.020 | 0.4 | 0.011 | 0.3 | 0.003 | 0.2 | 0.003 |
| 2.2 | 335.211 | 20.8 | 110.620 | 13.5 | 35.557 | 8.7 | 9.905 | 5.2 | 3.257 | 3.3 | 1.089 | 2.1 | 0.344 | 1.3 | 0.149 | 1.0 | 0.061 | 0.7 | 0.023 | 0.4 | 0.013 | 0.3 | 0.004 | 0.2 | 0.004 |
| 2.4 | 397.521 | 22.7 | 131.001 | 14.7 | 42.036 | 9.4 | 11.684 | 5.7 | 3.834 | 3.6 | 1.280 | 2.3 | 0.404 | 1.5 | 0.174 | 1.0 | 0.071 | 0.7 | 0.027 | 0.5 | 0.015 | 0.4 | 0.004 | 0.2 | 0.004 |
| 2.6 | 465.120 | 24.6 | 153.092 | 16.0 | 49.049 | 10.2 | 13.606 | 6.2 | 4.457 | 4.0 | 1.485 | 2.5 | 0.468 | 1.6 | 0.202 | 1.1 | 0.083 | 0.8 | 0.032 | 0.5 | 0.017 | 0.4 | 0.005 | 0.3 | 0.005 |
| 2.8 | 538.007 | 26.5 | 176.893 | 17.2 | 56.597 | 11.0 | 15.672 | 6.6 | 5.125 | 4.2 | 1.705 | 2.7 | 0.536 | 1.7 | 0.231 | 1.2 | 0.094 | 0.8 | 0.036 | 0.6 | 0.019 | 0.4 | 0.006 | 0.3 | 0.006 |
| 3.0 | 616.183 | 28.4 | 202.403 | 18.4 | 64.679 | 11.8 | 17.880 | 7.1 | 5.838 | 4.5 | 1.939 | 2.9 | 0.609 | 1.8 | 0.262 | 1.3 | 0.107 | 0.9 | 0.041 | 0.6 | 0.022 | 0.5 | 0.007 | 0.3 | 0.007 |
| 3.2 | 699.646 | 30.3 | 229.622 | 19.7 | 73.295 | 12.6 | 20.231 | 7.6 | 6.596 | 4.8 | 2.188 | 3.1 | 0.686 | 1.9 | 0.295 | 1.4 | 0.120 | 1.0 | 0.046 | 0.6 | 0.025 | 0.5 | 0.007 | 0.3 | 0.007 |
| 3.4 | 788.398 | 32.2 | 258.549 | 20.9 | 82.444 | 13.4 | 22.725 | 8.0 | 7.399 | 5.2 | 2.451 | 3.3 | 0.767 | 2.1 | 0.330 | 1.5 | 0.135 | 1.0 | 0.051 | 0.7 | 0.027 | 0.5 | 0.008 | 0.3 | 0.008 |
| 3.6 | 882.436 | 34.1 | 289.185 | 22.1 | 92.127 | 14.2 | 25.361 | 8.5 | 8.247 | 5.5 | 2.729 | 3.5 | 0.853 | 2.2 | 0.367 | 1.6 | 0.149 | 1.1 | 0.057 | 0.7 | 0.030 | 0.6 | 0.009 | 0.3 | 0.009 |
| 3.8 | 981.763 | 36.0 | 321.530 | 23.3 | 102.343 | 14.9 | 28.140 | 9.0 | 9.140 | 5.8 | 3.021 | 3.7 | 0.943 | 2.3 | 0.405 | 1.6 | 0.165 | 1.1 | 0.063 | 0.8 | 0.034 | 0.6 | 0.010 | 0.4 | 0.010 |
| 4.0 | 1086.377 | 37.9 | 355.583 | 24.6 | 113.093 | 15.7 | 31.061 | 9.5 | 10.078 | 6.1 | 3.327 | 3.9 | 1.038 | 2.4 | 0.445 | 1.7 | 0.181 | 1.2 | 0.069 | 0.8 | 0.037 | 0.6 | 0.011 | 0.4 | 0.011 |
| 4.2 | 1196.278 | 39.7 | 391.344 | 25.8 | 124.375 | 16.5 | 34.124 | 9.9 | 11.060 | 6.4 | 3.647 | 4.1 | 1.137 | 2.6 | 0.488 | 1.8 | 0.198 | 1.3 | 0.075 | 0.8 | 0.040 | 0.7 | 0.012 | 0.4 | 0.012 |
| 4.4 | 1311.466 | 41.6 | 428.814 | 27.0 | 136.191 | 17.3 | 37.330 | 10.4 | 12.087 | 6.7 | 3.928 | 4.3 | 1.240 | 2.7 | 0.531 | 1.9 | 0.216 | 1.3 | 0.082 | 0.9 | 0.044 | 0.7 | 0.013 | 0.4 | 0.013 |
| 4.6 | 1431.942 | 43.5 | 467.991 | 28.3 | 148.540 | 18.1 | 40.678 | 10.9 | 13.159 | 7.0 | 4.331 | 4.5 | 1.347 | 2.8 | 0.577 | 2.0 | 0.234 | 1.4 | 0.089 | 0.9 | 0.047 | 0.7 | 0.014 | 0.4 | 0.014 |
| 4.8 | 1557.704 | 45.4 | 508.887 | 29.5 | 161.423 | 18.9 | 44.168 | 11.4 | 14.275 | 7.3 | 4.694 | 4.7 | 1.458 | 2.9 | 0.624 | 2.1 | 0.253 | 1.4 | 0.096 | 1.0 | 0.051 | 0.7 | 0.016 | 0.5 | 0.016 |
| 5.0 | | | 551.470 | 30.7 | 174.838 | 19.7 | 47.800 | 11.8 | 15.436 | 7.6 | 5.071 | 4.9 | 1.574 | 3.0 | 0.673 | 2.2 | 0.273 | 1.5 | 0.103 | 1.0 | 0.055 | 0.8 | 0.017 | 0.5 | 0.017 |
| 5.2 | | | 595.772 | 31.9 | 188.786 | 20.4 | 51.574 | 12.3 | 16.642 | 7.9 | 5.462 | 5.1 | 1.694 | 3.2 | 0.724 | 2.2 | 0.293 | 1.6 | 0.111 | 1.0 | 0.059 | 0.8 | 0.018 | 0.5 | 0.018 |
| 5.4 | | | 641.782 | 33.2 | 203.267 | 21.2 | 55.490 | 12.8 | 17.892 | 8.2 | 5.868 | 5.3 | 1.818 | 3.3 | 0.777 | 2.3 | 0.315 | 1.6 | 0.119 | 1.1 | 0.064 | 0.8 | 0.019 | 0.5 | 0.019 |
| 5.6 | | | 689.499 | 34.4 | 218.282 | 22.0 | 59.549 | 13.3 | 19.187 | 8.5 | 6.288 | 5.4 | 1.947 | 3.4 | 0.831 | 2.4 | 0.336 | 1.7 | 0.127 | 1.1 | 0.068 | 0.9 | 0.021 | 0.5 | 0.021 |
| 5.8 | | | 738.925 | 35.6 | 233.829 | 22.8 | 63.749 | 13.7 | 20.526 | 8.8 | 6.721 | 5.6 | 2.080 | 3.5 | 0.888 | 2.5 | 0.359 | 1.7 | 0.136 | 1.2 | 0.072 | 0.9 | 0.022 | 0.6 | 0.022 |
| 6.0 | | | 790.058 | 36.8 | 249.908 | 23.6 | 68.092 | 14.2 | 21.910 | 9.1 | 7.169 | 5.8 | 2.217 | 3.6 | 0.946 | 2.6 | 0.382 | 1.8 | 0.144 | 1.2 | 0.077 | 0.9 | 0.023 | 0.6 | 0.023 |
| 6.2 | | | 842.899 | 38.1 | 266.521 | 24.4 | 72.576 | 14.7 | 23.338 | 9.4 | 7.632 | 6.0 | 2.358 | 3.8 | 1.005 | 2.7 | 0.406 | 1.9 | 0.153 | 1.2 | 0.082 | 1.0 | 0.025 | 0.6 | 0.025 |
| 6.4 | | | 897.448 | 39.3 | 283.667 | 25.2 | 77.203 | 15.1 | 24.811 | 9.7 | 8.108 | 6.2 | 2.503 | 3.9 | 1.067 | 2.8 | 0.431 | 1.9 | 0.163 | 1.3 | 0.087 | 1.0 | 0.026 | 0.6 | 0.026 |
| 6.6 | | | 953.705 | 40.5 | 301.345 | 25.9 | 81.971 | 15.6 | 26.329 | 10.0 | 8.598 | 6.4 | 2.652 | 4.0 | 1.113 | 2.8 | 0.456 | 2.0 | 0.172 | 1.3 | 0.092 | 1.0 | 0.028 | 0.6 | 0.028 |
| 6.8 | | | 1011.669 | 41.8 | 319.557 | 26.7 | 86.881 | 16.1 | 27.891 | 10.3 | 9.103 | 6.6 | 2.806 | 4.1 | 1.195 | 2.9 | 0.482 | 2.0 | 0.182 | 1.4 | 0.097 | 1.1 | 0.029 | 0.6 | 0.029 |
| 7.0 | | | 1071.342 | 43.0 | 338.301 | 27.5 | 91.934 | 16.6 | 29.497 | 10.6 | 9.621 | 6.8 | 2.964 | 4.3 | 1.261 | 3.0 | 0.509 | 2.1 | 0.192 | 1.4 | 0.102 | 1.1 | 0.031 | 0.7 | 0.031 |
| 7.5 | | | 1227.994 | 46.1 | 387.492 | 29.5 | 105.185 | 17.7 | 33.707 | 11.4 | | | | | | | | | | | | | | | |