

Table 1: Wysokość 0.0 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|------------|--------|----------|
| 0 | 0.200 | 62.428 | 112912.646 | 60050.000 | -52862.646 | -7.382 | -0.119 |
| 1 | 0.293 | 51.590 | 66225.771 | 60050.000 | -6175.771 | -0.862 | -0.017 |
| 2 | 0.386 | 44.954 | 47111.330 | 60050.000 | 12938.670 | 1.807 | 0.040 |
| 3 | 0.479 | 40.357 | 37312.010 | 60050.000 | 22737.990 | 3.175 | 0.079 |
| 4 | 0.571 | 36.933 | 31666.369 | 60050.000 | 28383.631 | 3.963 | 0.108 |
| 5 | 0.664 | 34.255 | 28160.291 | 60050.000 | 31889.709 | 4.453 | 0.130 |
| 6 | 0.757 | 32.085 | 25846.618 | 60050.000 | 34203.382 | 4.776 | 0.149 |
| 7 | 0.850 | 30.282 | 24231.346 | 60050.000 | 35818.654 | 5.002 | 0.166 |
| 8 | 0.943 | 28.752 | 23052.213 | 60050.000 | 36997.787 | 5.166 | 0.181 |
| 9 | 1.036 | 27.433 | 22177.995 | 60050.000 | 37872.005 | 5.288 | 0.194 |
| 10 | 1.129 | 26.280 | 21548.729 | 60050.000 | 38501.271 | 5.376 | 0.206 |
| 11 | 1.221 | 25.262 | 21140.861 | 60050.000 | 38909.139 | 5.433 | 0.217 |
| 12 | 1.314 | 24.353 | 20953.265 | 60050.000 | 39096.735 | 5.459 | 0.226 |
| 13 | 1.407 | 23.536 | 20990.964 | 60050.000 | 39059.036 | 5.454 | 0.234 |
| 14 | 1.500 | 22.796 | 21219.421 | 60050.000 | 38830.579 | 5.422 | 0.240 |

Table 2: Wysokość 0.5 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|------------|--------|----------|
| 0 | 0.200 | 63.961 | 115684.508 | 55797.000 | -59887.508 | -8.363 | -0.131 |
| 1 | 0.293 | 52.857 | 67851.529 | 55797.000 | -12054.529 | -1.683 | -0.032 |
| 2 | 0.386 | 46.057 | 48267.853 | 55797.000 | 7529.147 | 1.051 | 0.023 |
| 3 | 0.479 | 41.348 | 38227.972 | 55797.000 | 17569.028 | 2.453 | 0.059 |
| 4 | 0.571 | 37.840 | 32443.738 | 55797.000 | 23353.262 | 3.261 | 0.086 |
| 5 | 0.664 | 35.096 | 28851.591 | 55797.000 | 26945.409 | 3.763 | 0.107 |
| 6 | 0.757 | 32.873 | 26481.119 | 55797.000 | 29315.881 | 4.094 | 0.125 |
| 7 | 0.850 | 31.026 | 24826.195 | 55797.000 | 30970.805 | 4.325 | 0.140 |
| 8 | 0.943 | 29.458 | 23618.115 | 55797.000 | 32178.885 | 4.493 | 0.153 |
| 9 | 1.036 | 28.107 | 22722.436 | 55797.000 | 33074.564 | 4.619 | 0.165 |
| 10 | 1.129 | 26.926 | 22077.723 | 55797.000 | 33719.277 | 4.709 | 0.176 |
| 11 | 1.221 | 25.882 | 21659.843 | 55797.000 | 34137.157 | 4.767 | 0.185 |
| 12 | 1.314 | 24.951 | 21467.641 | 55797.000 | 34329.359 | 4.794 | 0.193 |
| 13 | 1.407 | 24.114 | 21506.265 | 55797.000 | 34290.735 | 4.788 | 0.200 |
| 14 | 1.500 | 23.355 | 21740.331 | 55797.000 | 34056.669 | 4.756 | 0.205 |

Table 3: Wysokość 1.0 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|------------|--------|----------|
| 0 | 0.200 | 65.553 | 118564.207 | 51687.000 | -66877.207 | -9.339 | -0.143 |
| 1 | 0.293 | 54.173 | 69540.537 | 51687.000 | -17853.537 | -2.493 | -0.046 |
| 2 | 0.386 | 47.204 | 49469.370 | 51687.000 | 2217.630 | 0.310 | 0.007 |
| 3 | 0.479 | 42.377 | 39179.570 | 51687.000 | 12507.430 | 1.747 | 0.041 |
| 4 | 0.571 | 38.782 | 33251.350 | 51687.000 | 18435.650 | 2.574 | 0.066 |
| 5 | 0.664 | 35.969 | 29569.785 | 51687.000 | 22117.215 | 3.088 | 0.086 |
| 6 | 0.757 | 33.691 | 27140.306 | 51687.000 | 24546.694 | 3.428 | 0.102 |
| 7 | 0.850 | 31.798 | 25444.186 | 51687.000 | 26242.814 | 3.665 | 0.116 |
| 8 | 0.943 | 30.192 | 24206.033 | 51687.000 | 27480.967 | 3.837 | 0.127 |
| 9 | 1.036 | 28.806 | 23288.059 | 51687.000 | 28398.941 | 3.966 | 0.138 |
| 10 | 1.129 | 27.596 | 22627.297 | 51687.000 | 29059.703 | 4.058 | 0.148 |
| 11 | 1.221 | 26.526 | 22199.015 | 51687.000 | 29487.985 | 4.118 | 0.156 |
| 12 | 1.314 | 25.572 | 22002.028 | 51687.000 | 29684.972 | 4.145 | 0.163 |
| 13 | 1.407 | 24.714 | 22041.614 | 51687.000 | 29645.386 | 4.140 | 0.168 |
| 14 | 1.500 | 23.937 | 22281.507 | 51687.000 | 29405.493 | 4.106 | 0.172 |

Table 4: Wysokość 1.5 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|------------|---------|----------|
| 0 | 0.200 | 68.016 | 123018.600 | 45927.000 | -77091.600 | -10.765 | -0.159 |
| 1 | 0.293 | 56.208 | 72153.138 | 45927.000 | -26226.138 | -3.662 | -0.065 |
| 2 | 0.386 | 48.977 | 51327.908 | 45927.000 | -5400.908 | -0.754 | -0.015 |
| 3 | 0.479 | 43.970 | 40651.525 | 45927.000 | 5275.475 | 0.737 | 0.017 |
| 4 | 0.571 | 40.239 | 34500.585 | 45927.000 | 11426.415 | 1.596 | 0.040 |
| 5 | 0.664 | 37.321 | 30680.705 | 45927.000 | 15246.295 | 2.129 | 0.057 |
| 6 | 0.757 | 34.957 | 28159.952 | 45927.000 | 17767.048 | 2.481 | 0.071 |
| 7 | 0.850 | 32.993 | 26400.110 | 45927.000 | 19526.890 | 2.727 | 0.083 |
| 8 | 0.943 | 31.326 | 25115.441 | 45927.000 | 20811.559 | 2.906 | 0.093 |
| 9 | 1.036 | 29.889 | 24162.979 | 45927.000 | 21764.021 | 3.039 | 0.102 |
| 10 | 1.129 | 28.633 | 23477.393 | 45927.000 | 22449.607 | 3.135 | 0.110 |
| 11 | 1.221 | 27.523 | 23033.020 | 45927.000 | 22893.980 | 3.197 | 0.116 |
| 12 | 1.314 | 26.533 | 22828.632 | 45927.000 | 23098.368 | 3.225 | 0.122 |
| 13 | 1.407 | 25.642 | 22869.706 | 45927.000 | 23057.294 | 3.220 | 0.126 |
| 14 | 1.500 | 24.836 | 23118.611 | 45927.000 | 22808.389 | 3.185 | 0.129 |

Table 5: Wysokość 2.0 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|------------|---------|----------|
| 0 | 0.200 | 68.889 | 124598.163 | 44042.000 | -80556.163 | -11.249 | -0.164 |
| 1 | 0.293 | 56.930 | 73079.586 | 44042.000 | -29037.586 | -4.055 | -0.071 |
| 2 | 0.386 | 49.606 | 51986.960 | 44042.000 | -7944.960 | -1.109 | -0.022 |
| 3 | 0.479 | 44.534 | 41173.492 | 44042.000 | 2868.508 | 0.401 | 0.009 |
| 4 | 0.571 | 40.755 | 34943.574 | 44042.000 | 9098.426 | 1.270 | 0.031 |
| 5 | 0.664 | 37.800 | 31074.647 | 44042.000 | 12967.353 | 1.811 | 0.048 |
| 6 | 0.757 | 35.406 | 28521.527 | 44042.000 | 15520.473 | 2.167 | 0.061 |
| 7 | 0.850 | 33.416 | 26739.088 | 44042.000 | 17302.912 | 2.416 | 0.072 |
| 8 | 0.943 | 31.728 | 25437.924 | 44042.000 | 18604.076 | 2.598 | 0.082 |
| 9 | 1.036 | 30.272 | 24473.232 | 44042.000 | 19568.768 | 2.733 | 0.090 |
| 10 | 1.129 | 29.000 | 23778.843 | 44042.000 | 20263.157 | 2.830 | 0.098 |
| 11 | 1.221 | 27.876 | 23328.764 | 44042.000 | 20713.236 | 2.892 | 0.104 |
| 12 | 1.314 | 26.873 | 23121.753 | 44042.000 | 20920.247 | 2.921 | 0.109 |
| 13 | 1.407 | 25.972 | 23163.353 | 44042.000 | 20878.647 | 2.915 | 0.112 |
| 14 | 1.500 | 25.155 | 23415.454 | 44042.000 | 20626.546 | 2.880 | 0.115 |

Table 6: Wysokość 2.5 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|------------|---------|----------|
| 0 | 0.200 | 69.096 | 124971.399 | 42056.000 | -82915.399 | -11.578 | -0.168 |
| 1 | 0.293 | 57.100 | 73298.497 | 42056.000 | -31242.497 | -4.363 | -0.076 |
| 2 | 0.386 | 49.755 | 52142.687 | 42056.000 | -10086.687 | -1.408 | -0.028 |
| 3 | 0.479 | 44.668 | 41296.828 | 42056.000 | 759.172 | 0.106 | 0.002 |
| 4 | 0.571 | 40.877 | 35048.248 | 42056.000 | 7007.752 | 0.979 | 0.024 |
| 5 | 0.664 | 37.913 | 31167.731 | 42056.000 | 10888.269 | 1.520 | 0.040 |
| 6 | 0.757 | 35.512 | 28606.964 | 42056.000 | 13449.036 | 1.878 | 0.053 |
| 7 | 0.850 | 33.516 | 26819.186 | 42056.000 | 15236.814 | 2.128 | 0.064 |
| 8 | 0.943 | 31.823 | 25514.124 | 42056.000 | 16541.876 | 2.310 | 0.073 |
| 9 | 1.036 | 30.363 | 24546.542 | 42056.000 | 17509.458 | 2.445 | 0.081 |
| 10 | 1.129 | 29.087 | 23850.073 | 42056.000 | 18205.927 | 2.542 | 0.088 |
| 11 | 1.221 | 27.960 | 23398.646 | 42056.000 | 18657.354 | 2.605 | 0.093 |
| 12 | 1.314 | 26.954 | 23191.014 | 42056.000 | 18864.986 | 2.634 | 0.098 |
| 13 | 1.407 | 26.049 | 23232.740 | 42056.000 | 18823.260 | 2.628 | 0.101 |
| 14 | 1.500 | 25.230 | 23485.596 | 42056.000 | 18570.404 | 2.593 | 0.103 |

Table 7: Wysokość 3.0 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|------------|---------|----------|
| 0 | 0.200 | 72.512 | 131149.822 | 39289.000 | -91860.822 | -12.827 | -0.178 |
| 1 | 0.293 | 59.923 | 76922.279 | 39289.000 | -37633.279 | -5.255 | -0.088 |
| 2 | 0.386 | 52.214 | 54720.554 | 39289.000 | -15431.554 | -2.155 | -0.041 |
| 3 | 0.479 | 46.876 | 43338.489 | 39289.000 | -4049.489 | -0.565 | -0.012 |
| 4 | 0.571 | 42.898 | 36780.988 | 39289.000 | 2508.012 | 0.350 | 0.008 |
| 5 | 0.664 | 39.787 | 32708.623 | 39289.000 | 6580.377 | 0.919 | 0.023 |
| 6 | 0.757 | 37.268 | 30021.255 | 39289.000 | 9267.745 | 1.294 | 0.035 |
| 7 | 0.850 | 35.173 | 28145.091 | 39289.000 | 11143.909 | 1.556 | 0.044 |
| 8 | 0.943 | 33.396 | 26775.509 | 39289.000 | 12513.491 | 1.747 | 0.052 |
| 9 | 1.036 | 31.864 | 25760.091 | 39289.000 | 13528.909 | 1.889 | 0.059 |
| 10 | 1.129 | 30.525 | 25029.190 | 39289.000 | 14259.810 | 1.991 | 0.065 |
| 11 | 1.221 | 29.342 | 24555.445 | 39289.000 | 14733.555 | 2.057 | 0.070 |
| 12 | 1.314 | 28.286 | 24337.548 | 39289.000 | 14951.452 | 2.088 | 0.074 |
| 13 | 1.407 | 27.337 | 24381.336 | 39289.000 | 14907.664 | 2.082 | 0.076 |
| 14 | 1.500 | 26.477 | 24646.693 | 39289.000 | 14642.307 | 2.045 | 0.077 |

Table 8: Wysokość 3.5 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|------------|---------|----------|
| 0 | 0.200 | 74.378 | 134525.691 | 35869.000 | -98656.691 | -13.776 | -0.186 |
| 1 | 0.293 | 61.466 | 78902.302 | 35869.000 | -43033.302 | -6.009 | -0.098 |
| 2 | 0.386 | 53.558 | 56129.092 | 35869.000 | -20260.092 | -2.829 | -0.053 |
| 3 | 0.479 | 48.082 | 44454.046 | 35869.000 | -8585.046 | -1.199 | -0.025 |
| 4 | 0.571 | 44.003 | 37727.751 | 35869.000 | -1858.751 | -0.260 | -0.006 |
| 5 | 0.664 | 40.811 | 33550.561 | 35869.000 | 2318.439 | 0.324 | 0.008 |
| 6 | 0.757 | 38.227 | 30794.018 | 35869.000 | 5074.982 | 0.709 | 0.019 |
| 7 | 0.850 | 36.079 | 28869.562 | 35869.000 | 6999.438 | 0.977 | 0.027 |
| 8 | 0.943 | 34.256 | 27464.725 | 35869.000 | 8404.275 | 1.174 | 0.034 |
| 9 | 1.036 | 32.684 | 26423.170 | 35869.000 | 9445.830 | 1.319 | 0.040 |
| 10 | 1.129 | 31.311 | 25673.455 | 35869.000 | 10195.545 | 1.424 | 0.045 |
| 11 | 1.221 | 30.097 | 25187.515 | 35869.000 | 10681.485 | 1.492 | 0.050 |
| 12 | 1.314 | 29.014 | 24964.010 | 35869.000 | 10904.990 | 1.523 | 0.053 |
| 13 | 1.407 | 28.041 | 25008.925 | 35869.000 | 10860.075 | 1.516 | 0.054 |
| 14 | 1.500 | 27.159 | 25281.113 | 35869.000 | 10587.887 | 1.478 | 0.054 |

Table 9: Wysokość 4.0 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|-------------|---------|----------|
| 0 | 0.200 | 76.350 | 138092.051 | 32545.000 | -105547.051 | -14.739 | -0.194 |
| 1 | 0.293 | 63.095 | 80994.051 | 32545.000 | -48449.051 | -6.765 | -0.107 |
| 2 | 0.386 | 54.978 | 57617.109 | 32545.000 | -25072.109 | -3.501 | -0.064 |
| 3 | 0.479 | 49.357 | 45632.550 | 32545.000 | -13087.550 | -1.828 | -0.037 |
| 4 | 0.571 | 45.169 | 38727.937 | 32545.000 | -6182.937 | -0.863 | -0.019 |
| 5 | 0.664 | 41.893 | 34440.008 | 32545.000 | -1895.008 | -0.265 | -0.006 |
| 6 | 0.757 | 39.240 | 31610.387 | 32545.000 | 934.613 | 0.131 | 0.003 |
| 7 | 0.850 | 37.035 | 29634.912 | 32545.000 | 2910.088 | 0.406 | 0.011 |
| 8 | 0.943 | 35.164 | 28192.832 | 32545.000 | 4352.168 | 0.608 | 0.017 |
| 9 | 1.036 | 33.551 | 27123.665 | 32545.000 | 5421.335 | 0.757 | 0.023 |
| 10 | 1.129 | 32.141 | 26354.074 | 32545.000 | 6190.926 | 0.864 | 0.027 |
| 11 | 1.221 | 30.895 | 25855.252 | 32545.000 | 6689.748 | 0.934 | 0.030 |
| 12 | 1.314 | 29.784 | 25625.821 | 32545.000 | 6919.179 | 0.966 | 0.032 |
| 13 | 1.407 | 28.784 | 25671.927 | 32545.000 | 6873.073 | 0.960 | 0.033 |
| 14 | 1.500 | 27.879 | 25951.331 | 32545.000 | 6593.669 | 0.921 | 0.033 |

Table 10: Wysokość 4.5 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|-------------|---------|----------|
| 0 | 0.200 | 78.844 | 142603.446 | 28714.000 | -113889.446 | -15.903 | -0.203 |
| 1 | 0.293 | 65.156 | 83640.084 | 28714.000 | -54926.084 | -7.670 | -0.118 |
| 2 | 0.386 | 56.774 | 59499.429 | 28714.000 | -30785.429 | -4.299 | -0.076 |
| 3 | 0.479 | 50.970 | 47123.342 | 28714.000 | -18409.342 | -2.571 | -0.050 |
| 4 | 0.571 | 46.645 | 39993.158 | 28714.000 | -11279.158 | -1.575 | -0.034 |
| 5 | 0.664 | 43.262 | 35565.145 | 28714.000 | -6851.145 | -0.957 | -0.022 |
| 6 | 0.757 | 40.522 | 32643.082 | 28714.000 | -3929.082 | -0.549 | -0.014 |
| 7 | 0.850 | 38.245 | 30603.069 | 28714.000 | -1889.069 | -0.264 | -0.007 |
| 8 | 0.943 | 36.313 | 29113.877 | 28714.000 | -399.877 | -0.056 | -0.002 |
| 9 | 1.036 | 34.647 | 28009.781 | 28714.000 | 704.219 | 0.098 | 0.003 |
| 10 | 1.129 | 33.191 | 27215.048 | 28714.000 | 1498.952 | 0.209 | 0.006 |
| 11 | 1.221 | 31.904 | 26699.929 | 28714.000 | 2014.071 | 0.281 | 0.009 |
| 12 | 1.314 | 30.757 | 26463.003 | 28714.000 | 2250.997 | 0.314 | 0.010 |
| 13 | 1.407 | 29.725 | 26510.616 | 28714.000 | 2203.384 | 0.308 | 0.010 |
| 14 | 1.500 | 28.790 | 26799.147 | 28714.000 | 1914.853 | 0.267 | 0.009 |

Table 11: Wysokość 5.0 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|-------------|---------|----------|
| 0 | 0.200 | 80.540 | 145670.538 | 26338.000 | -119332.538 | -16.664 | -0.208 |
| 1 | 0.293 | 66.558 | 85439.001 | 26338.000 | -59101.001 | -8.253 | -0.124 |
| 2 | 0.386 | 57.995 | 60779.133 | 26338.000 | -34441.133 | -4.809 | -0.083 |
| 3 | 0.479 | 52.066 | 48136.863 | 26338.000 | -21798.863 | -3.044 | -0.058 |
| 4 | 0.571 | 47.648 | 40853.325 | 26338.000 | -14515.325 | -2.027 | -0.043 |
| 5 | 0.664 | 44.193 | 36330.074 | 26338.000 | -9992.074 | -1.395 | -0.032 |
| 6 | 0.757 | 41.394 | 33345.164 | 26338.000 | -7007.164 | -0.978 | -0.024 |
| 7 | 0.850 | 39.068 | 31261.274 | 26338.000 | -4923.274 | -0.687 | -0.018 |
| 8 | 0.943 | 37.094 | 29740.054 | 26338.000 | -3402.054 | -0.475 | -0.013 |
| 9 | 1.036 | 35.392 | 28612.210 | 26338.000 | -2274.210 | -0.318 | -0.009 |
| 10 | 1.129 | 33.905 | 27800.385 | 26338.000 | -1462.385 | -0.204 | -0.006 |
| 11 | 1.221 | 32.591 | 27274.187 | 26338.000 | -936.187 | -0.131 | -0.004 |
| 12 | 1.314 | 31.418 | 27032.165 | 26338.000 | -694.165 | -0.097 | -0.003 |
| 13 | 1.407 | 30.364 | 27080.802 | 26338.000 | -742.802 | -0.104 | -0.003 |
| 14 | 1.500 | 29.409 | 27375.539 | 26338.000 | -1037.539 | -0.145 | -0.005 |

Table 12: Wysokość 5.5 km

| | C_z | V | N_n | N_r | ΔN | w | γ |
|----|-------|--------|------------|-----------|-------------|---------|----------|
| 0 | 0.200 | 82.763 | 149690.501 | 23469.000 | -126221.501 | -17.626 | -0.215 |
| 1 | 0.293 | 68.394 | 87796.799 | 23469.000 | -64327.799 | -8.983 | -0.132 |
| 2 | 0.386 | 59.596 | 62456.411 | 23469.000 | -38987.411 | -5.444 | -0.091 |
| 3 | 0.479 | 53.503 | 49465.261 | 23469.000 | -25996.261 | -3.630 | -0.068 |
| 4 | 0.571 | 48.963 | 41980.724 | 23469.000 | -18511.724 | -2.585 | -0.053 |
| 5 | 0.664 | 45.412 | 37332.648 | 23469.000 | -13863.648 | -1.936 | -0.043 |
| 6 | 0.757 | 42.536 | 34265.366 | 23469.000 | -10796.366 | -1.508 | -0.035 |
| 7 | 0.850 | 40.146 | 32123.969 | 23469.000 | -8654.969 | -1.209 | -0.030 |
| 8 | 0.943 | 38.118 | 30560.768 | 23469.000 | -7091.768 | -0.990 | -0.026 |
| 9 | 1.036 | 36.369 | 29401.801 | 23469.000 | -5932.801 | -0.828 | -0.023 |
| 10 | 1.129 | 34.841 | 28567.572 | 23469.000 | -5098.572 | -0.712 | -0.020 |
| 11 | 1.221 | 33.490 | 28026.853 | 23469.000 | -4557.853 | -0.636 | -0.019 |
| 12 | 1.314 | 32.285 | 27778.152 | 23469.000 | -4309.152 | -0.602 | -0.019 |
| 13 | 1.407 | 31.202 | 27828.131 | 23469.000 | -4359.131 | -0.609 | -0.020 |
| 14 | 1.500 | 30.221 | 28131.001 | 23469.000 | -4662.001 | -0.651 | -0.022 |