

## Electronic supplementary material

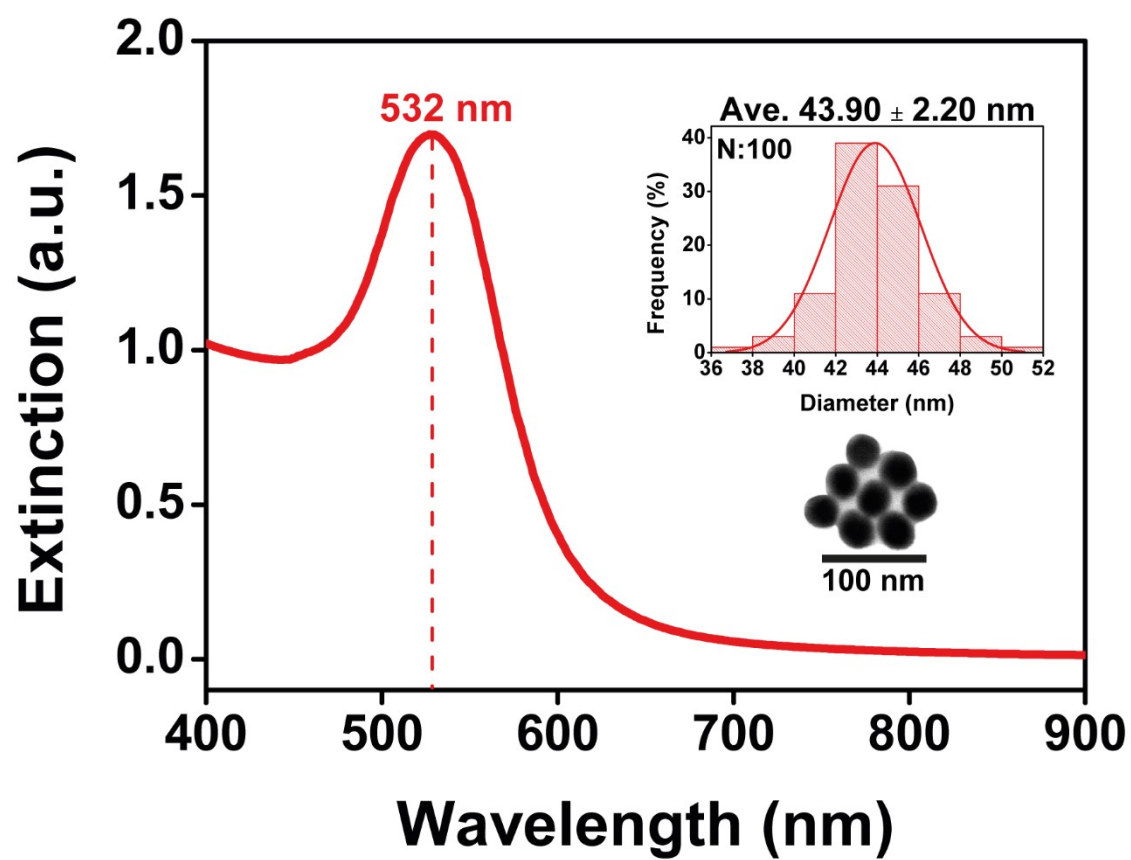
### **3D-printed ultrasensitive SERS substrates via photocrosslinked Pluronic F127 micellar hydrogel with citrate-reduced metallic nanoparticles**

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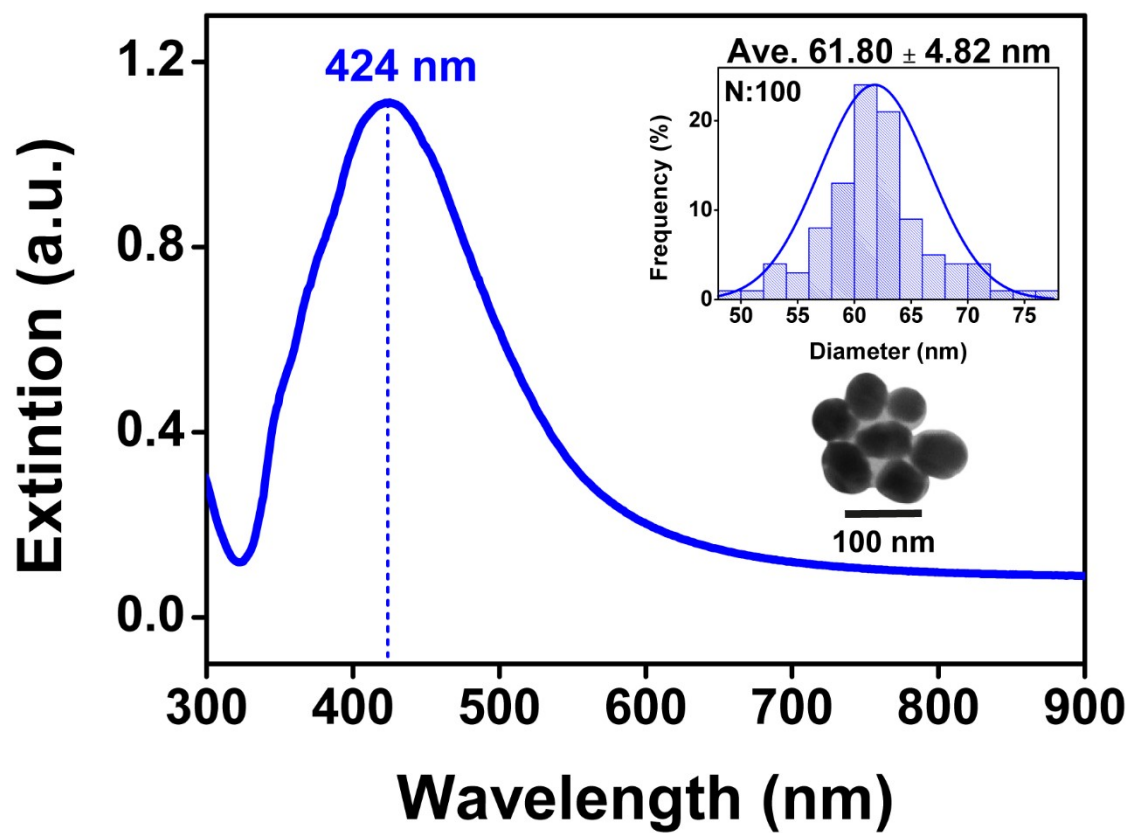
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**Fig. S1** Characterization of AuNPs by UV-vis spectroscopy and STEM (20.0 kV).



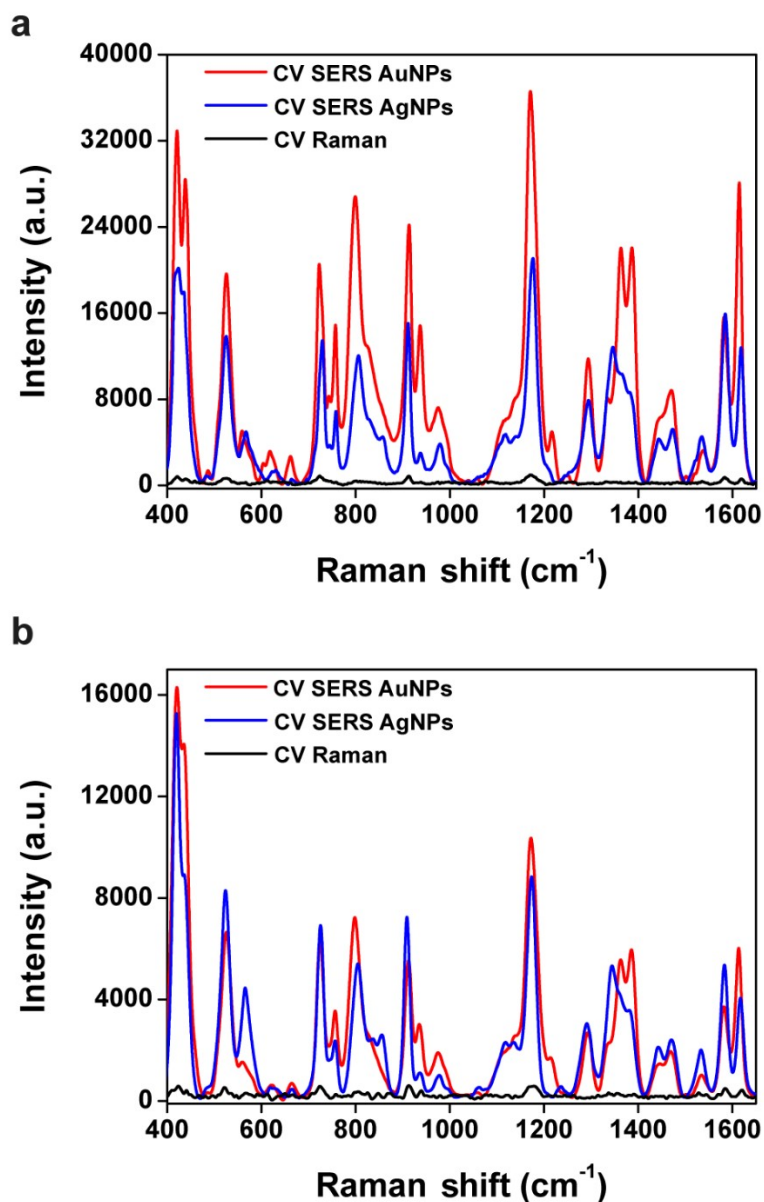
**Fig. S2** Characterization of AgNPs by UV-vis spectroscopy and STEM (20.0 kV).



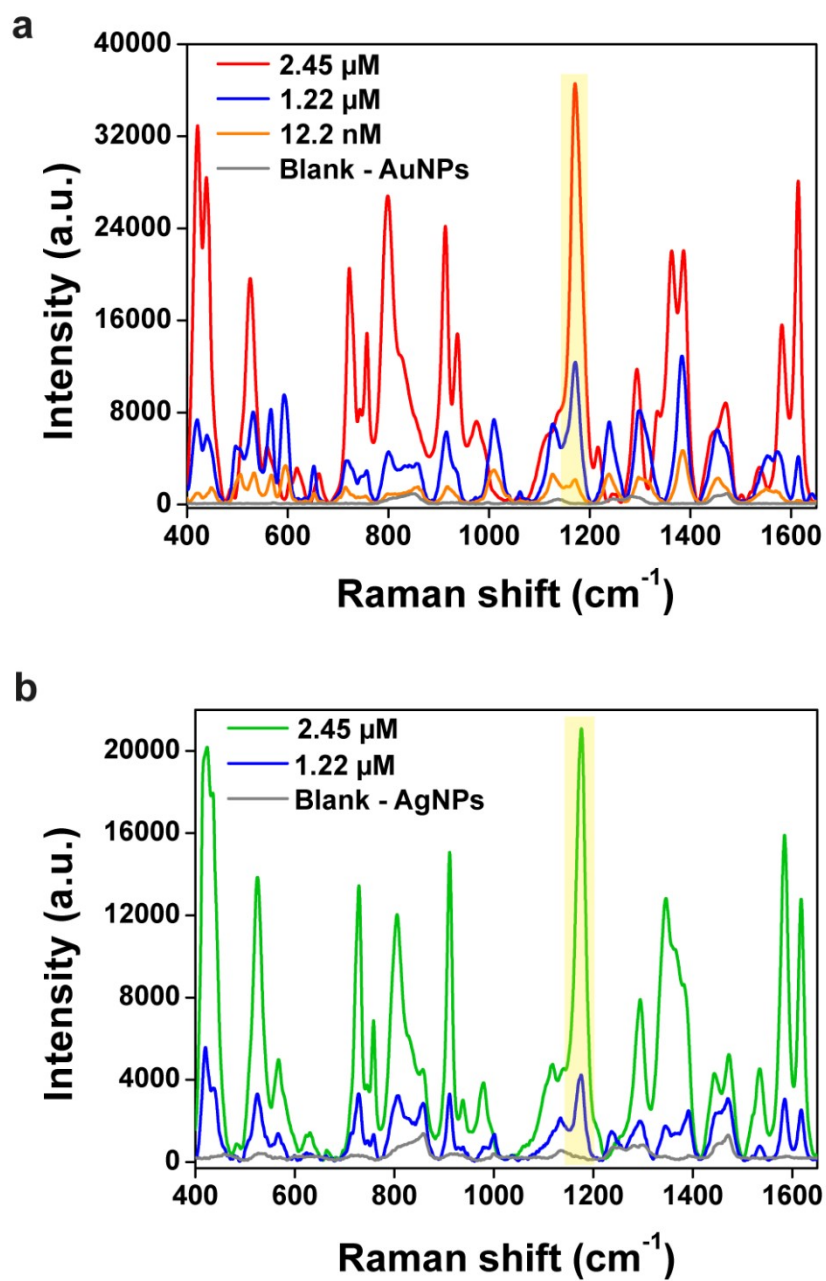
**Fig. S3** 3D-printed hydrogels substrates based on (a) AuNPs and (b) AgNPs.



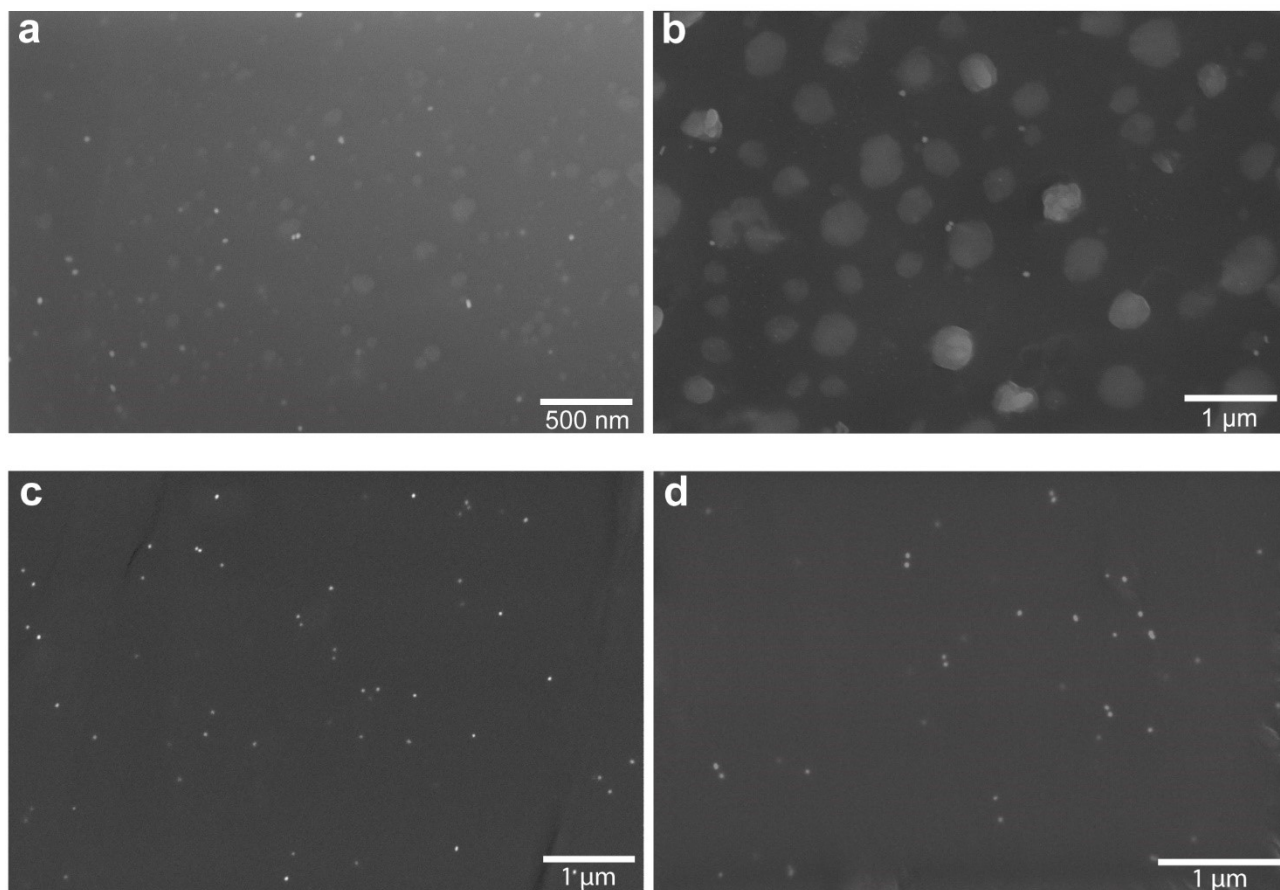
**Fig. S4** SERS spectra for 2.45 mM crystal violet (CV) obtained from AuNPs (red) and AgNPs (blue) substrates, along with a conventional Raman spectrum (black) for 39.21 mM crystal violet, were recorded using (a) a portable Raman spectrometer model BWS465-785S iRaman Plus (B&W Tek) and (b) a Horiba XploRA Raman spectrometer. For the Horiba XploRA Raman spectrometer, a 10× objective was used at 10% power with a 20-second exposure time.



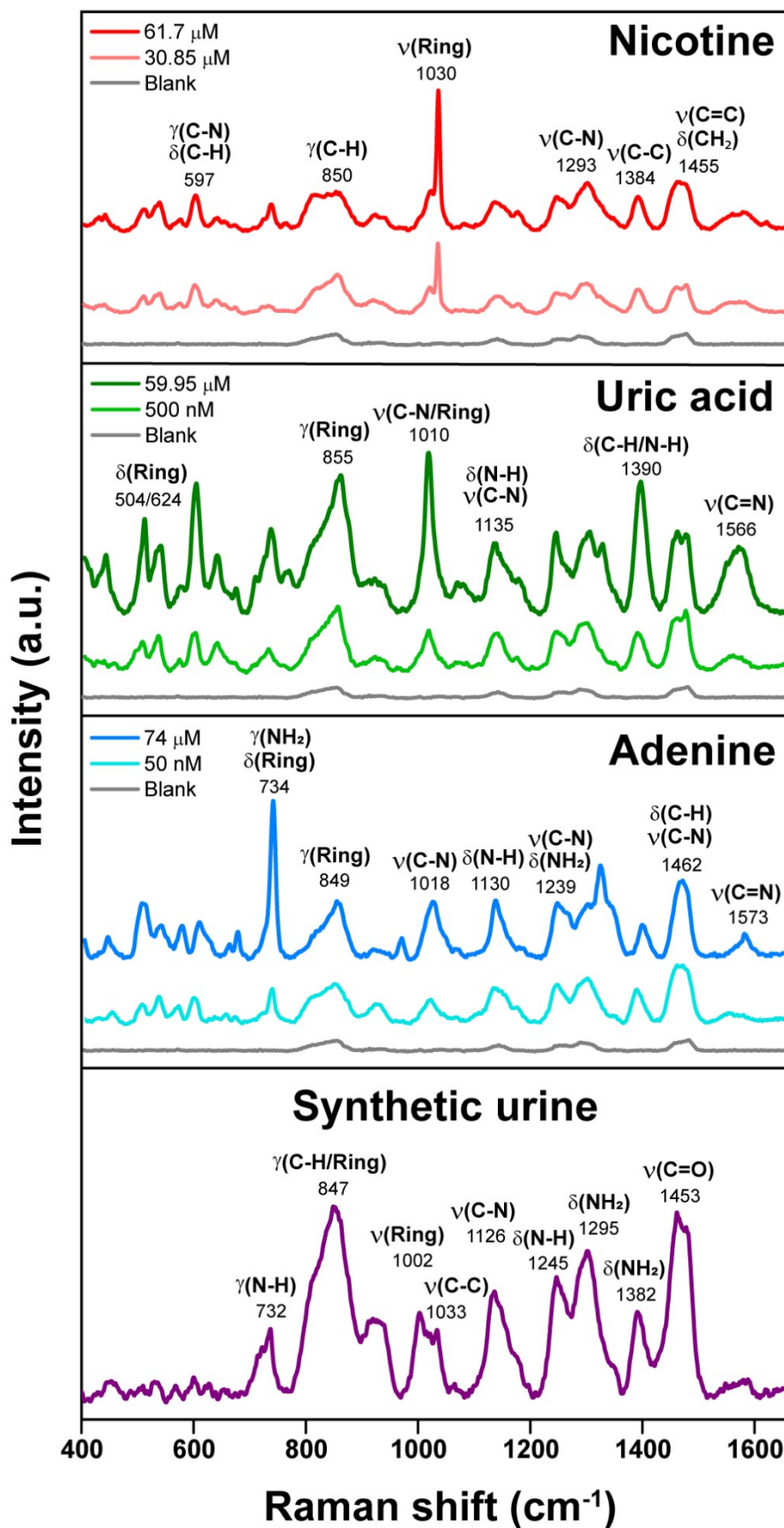
**Fig. S5** SERS spectra of crystal violet recorded at different concentrations using the (a) AuNPs and (b) AgNPs 3D-printed substrates.



**Fig. S6** SEM micrographs in environmental mode (20 kV, 200 Pa) of hydrated (a) AuNPs and (b) AgNPs substrates in environmental mode (20 kV, 200 Pa) and anhydrous (c) AuNPs and (d) AgNPs substrates under high vacuum mode (5 kV).

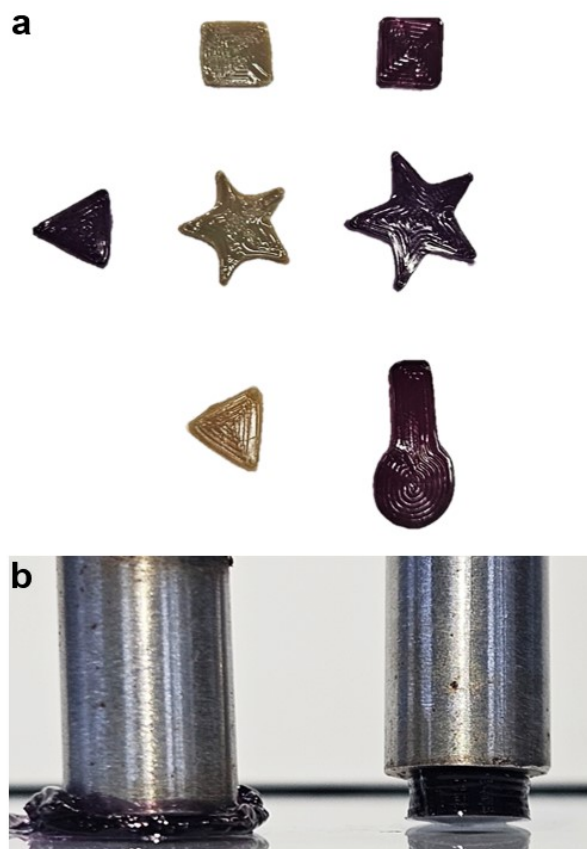


**Fig. S7** Detection of bioanalytes and analysis of synthetic urine using the proposed 3D-printed SERS substrates based on AuNPs.





**Fig. S8** (a) 3D-printed SERS hydrogel substrates of different sizes and shapes. (b) Resistance test of the material using a weight of 5 g with (right) and without (left) UV-induced photocrosslinking step.



**Table S1.** Comparison of hydrogel-based SERS substrates.

| Hydrogel              | Manufacturing approach | Metal     | Surface passivator                              | Raman spectrometer | Plasmonic ink | EF                    | Analytes                         | Reference |
|-----------------------|------------------------|-----------|-------------------------------------------------|--------------------|---------------|-----------------------|----------------------------------|-----------|
| Agar-Agar             | Manual deposition      | Ag        | No passivation                                  | Not portable       | No            | Not reported          | Textile dyes                     | 1         |
| PVA                   | Manual deposition      | Ag        | EtOH                                            | Not portable       | No            | Not reported          | NBA, Sudan red III               | 2         |
| Polyacrylamide/starch | Manual deposition      | Ag        | MBA                                             | Not portable       | No            | Not reported          | Phenol                           | 3         |
| Agar                  | Manual deposition      | Ag        | L-AA                                            | Not portable       | No            | $1.15 \times 10^{15}$ | R6G, melamine                    | 4         |
| Polyacrylamide/PAA    | Manual deposition      | Ag        | Sulfonated cellulose nanofiber-MBA              | Not portable       | No            | Not reported          | Urea, uric acid                  | 5         |
| Gelatin methacryloyl  | 3D printing            | Au        | 4-MBA, CTAB, LSB, Triton X-100, PEG-SH          | Not portable       | Yes           | $10^1$ - $10^2$       | MDA-MB-231 cells                 | 6         |
| PAA                   | Manual deposition      | Au        | 2-NAT, SiO <sub>2</sub>                         | Not portable       | No            | Not reported          | Parquat                          | 7         |
| PAH                   | Manual deposition      | Au        | N, N, N', N'-Tetramethylethylene diamine, 4-MBA | Portable           | No            | Not reported          | R6G, tiram                       | 8         |
| Gelatin/PVA           | Manual deposition      | Ag        | CTAB                                            | No report          | No            | Not reported          | Creatinine, uric acid, bilirubin | 9         |
| Pluronic F127-DM      | 3D printing            | Au and Ag | No passivation                                  | Portable           | Yes           | $3 \times 10^6$       | CV, adenine, uric acid, nicotine | This work |

## Experimental data

### a) Data from Fig. 3c (mass loss and SERS signal) for Au-based hydrogel

| Time (h) | Mass (g) | Standard deviation (g) | Intensity (a.u.) | Standard deviation (a.u.) |
|----------|----------|------------------------|------------------|---------------------------|
| 0        | 0.1876   | 0.0008                 | 8532.1153        | 1361.9894                 |
| 1        | 0.1644   | 0.0011                 | 22468.4046       | 1009.7667                 |
| 2        | 0.1419   | 0.0012                 | 23925.2746       | 1678.1284                 |
| 3        | 0.1220   | 0.0021                 | 29452.0905       | 1366.8900                 |
| 4        | 0.1022   | 0.0017                 | 33588.4094       | 918.8548                  |
| 5        | 0.0834   | 0.0028                 | 40051.2154       | 4910.5494                 |
| 6        | 0.0625   | 0.0008                 | 37688.5081       | 5009.5659                 |
| 7        | 0.0495   | 0.0014                 | 38425.1998       | 3052.2731                 |
| 8        | 0.0461   | 0.0031                 | 39486.3714       | 4561.3982                 |
| 22       | 0.0361   | 0.0031                 | 36594.1336       | 2324.0884                 |

### b) Data from Fig. 3d (mass loss and SERS signal) for Ag-based hydrogel

| Time (h) | Mass (g) | Standard deviation (g) | Intensity (a.u.) | Standard deviation (a.u.) |
|----------|----------|------------------------|------------------|---------------------------|
| 0        | 0.1835   | 0.0020                 | 7478.9391        | 551.4945                  |
| 1        | 0.1620   | 0.0023                 | 11785.7726       | 1583.8461                 |
| 2        | 0.1375   | 0.0021                 | 13379.3325       | 1518.0245                 |
| 3        | 0.1085   | 0.0016                 | 14975.8347       | 1466.8419                 |
| 4        | 0.0860   | 0.0016                 | 24099.8255       | 2492.8289                 |
| 5        | 0.0646   | 0.0009                 | 28440.4034       | 3603.4174                 |
| 6        | 0.0534   | 0.0006                 | 28812.8633       | 3481.6407                 |
| 7        | 0.0465   | 0.0012                 | 28272.5290       | 4216.1571                 |
| 8        | 0.0426   | 0.0011                 | 28078.4083       | 3159.4320                 |
| 22       | 0.0381   | 0.0004                 | 21172.1215       | 1297.7702                 |

c) Fig.3(a)(b) SERS spectra

| Raman Shift (cm-1) | CV 2.45 uM anhydrous-AuNPs | St.dev.    | CV 2.45 uM hydrated-AuNPs | St.dev.    | Blank-AuNPs | St.dev.  | CV 2.45 uM anhydrous-AgNPs | St.dev.    | CV 2.45 uM hydrated-AgNPs | St.dev.    | Blank-AgNPs | St.dev.   |
|--------------------|----------------------------|------------|---------------------------|------------|-------------|----------|----------------------------|------------|---------------------------|------------|-------------|-----------|
| 400.19             | 1804.40698                 | 1305.79384 | 540.43133                 | 403.46007  | 90.28241    | 11.3476  | 1579.2119                  | 229.31379  | 519.86592                 | 33.91448   | 330.3353    | 34.14824  |
| 402.48             | 3375.03601                 | 1509.39787 | 743.81482                 | 386.34563  | 90.39014    | 55.56315 | 2330.79942                 | 399.11834  | 738.52686                 | 227.99924  | 304.7065    | 120.64072 |
| 404.76             | 5551.32017                 | 1966.29862 | 1251.51631                | 529.61302  | 110.49626   | 9.08847  | 3547.3974                  | 451.26388  | 1074.18511                | 299.33248  | 299.01668   | 145.87087 |
| 407.05             | 8597.58128                 | 2468.56867 | 1948.17338                | 651.42747  | 107.93611   | 28.5495  | 6020.76436                 | 1252.13632 | 1656.5112                 | 380.49684  | 292.94432   | 130.77227 |
| 409.33             | 12689.14113                | 2923.95316 | 3065.75657                | 825.59899  | 69.70325    | 51.08844 | 8141.14783                 | 865.60674  | 2631.509                  | 440.01669  | 388.83953   | 17.0565   |
| 411.61             | 17627.9882                 | 3291.11914 | 4156.56975                | 1085.1729  | 74.78374    | 10.23401 | 11174.53835                | 3280.90817 | 3902.84904                | 794.71442  | 345.72437   | 49.91815  |
| 413.9              | 23005.11095                | 3650.49773 | 5520.58345                | 1236.18457 | 108.50373   | 33.46826 | 18238.93686                | 1559.63708 | 5517.86851                | 937.09895  | 306.62218   | 175.3243  |
| 416.18             | 28042.49787                | 3825.08804 | 6772.76822                | 1478.59165 | 102.86064   | 38.82667 | 19599.01099                | 1420.50354 | 7349.23793                | 1168.11445 | 438.226     | 101.22362 |
| 418.46             | 31794.80408                | 3885.19243 | 7735.42791                | 1710.84783 | 45.84975    | 14.74075 | 19714.42833                | 1463.72691 | 8755.29451                | 1053.20159 | 283.23359   | 170.58839 |
| 420.74             | 33438.68473                | 3309.26364 | 8189.53308                | 1730.5958  | 80.46444    | 37.41421 | 19942.18984                | 1358.43005 | 9431.0421                 | 1150.82743 | 395.67524   | 84.43906  |
| 423.01             | 32034.79496                | 2861.79136 | 7742.38758                | 1622.5296  | 78.38094    | 51.19502 | 20158.29646                | 1278.81787 | 8881.48457                | 940.99125  | 403.25357   | 80.32131  |
| 425.29             | 28380.78989                | 2435.33552 | 6667.62863                | 1486.27706 | 89.94451    | 11.62294 | 20274.74914                | 1337.21037 | 7414.29245                | 796.79389  | 479.00551   | 126.33357 |
| 427.57             | 24371.658                  | 2175.72092 | 5418.89342                | 1290.99736 | 60.83761    | 49.49001 | 18927.88214                | 1508.89533 | 5796.80292                | 670.2571   | 429.63534   | 145.61158 |
| 429.84             | 21934.7211                 | 2098.78498 | 4641.48583                | 1063.7658  | 94.07452    | 10.71499 | 17820.02976                | 1892.98965 | 4569.35319                | 649.77323  | 393.84488   | 65.2684   |
| 432.12             | 22574.96766                | 2186.71286 | 4596.04307                | 1045.46357 | 72.34649    | 47.19969 | 17804.8596                 | 2075.42126 | 4413.28045                | 830.8787   | 534.66884   | 35.68772  |
| 434.39             | 25066.05281                | 2208.34767 | 5332.20232                | 1142.21126 | 126.00835   | 19.49961 | 17838.70594                | 1871.95893 | 4767.92189                | 959.74474  | 527.14298   | 100.84349 |
| 436.66             | 28091.96503                | 1865.01052 | 6414.93414                | 1436.23136 | 100.42062   | 21.68825 | 18213.56973                | 1682.96796 | 5656.28138                | 1099.93678 | 587.63208   | 151.33821 |
| 438.93             | 28790.02611                | 1201.85149 | 7114.87573                | 1448.21678 | 100.26388   | 10.7181  | 14491.11857                | 3972.09169 | 6197.02944                | 1013.26414 | 607.16372   | 68.94072  |
| 441.2              | 26809.59535                | 2690.72506 | 6790.33095                | 1445.66754 | 83.21312    | 9.21238  | 13294.02008                | 2688.89918 | 6047.16993                | 1012.90192 | 667.09303   | 80.19608  |
| 443.47             | 24690.95332                | 646.45363  | 5595.27035                | 1109.34439 | 100.27111   | 29.95226 | 11060.9878                 | 1671.23107 | 5170.37339                | 736.99985  | 555.7716    | 35.72544  |
| 445.74             | 18546.44625                | 845.5146   | 4241.66445                | 756.8139   | 92.44183    | 7.26783  | 9105.17446                 | 352.03153  | 4130.97701                | 614.12632  | 565.21159   | 131.1028  |
| 448.01             | 13468.73277                | 503.22465  | 3041.15047                | 465.56087  | 86.72397    | 15.63828 | 6893.78645                 | 374.09289  | 3221.31798                | 487.49848  | 582.08663   | 93.34566  |
| 450.27             | 10482.80485                | 618.10952  | 2340.69894                | 361.57371  | 100.11376   | 21.30281 | 5302.82804                 | 359.27457  | 2538.7335                 | 531.32867  | 693.39808   | 123.50998 |
| 452.54             | 8318.98779                 | 456.10672  | 1709.94707                | 174.66101  | 112.60726   | 21.34529 | 4137.63688                 | 401.19583  | 2016.22743                | 387.15869  | 704.80772   | 114.09676 |
| 454.8              | 6729.27356                 | 291.09401  | 1332.19872                | 224.34261  | 74.52838    | 46.32018 | 3136.21724                 | 380.54127  | 1715.80363                | 424.01487  | 658.30565   | 198.16617 |
| 457.07             | 5772.32078                 | 383.64452  | 1092.75777                | 140.29834  | 96.19126    | 32.5564  | 2656.24009                 | 347.32121  | 1514.7993                 | 450.45108  | 647.2107    | 83.26491  |
| 459.33             | 4876.7881                  | 216.07076  | 866.59475                 | 153.89621  | 111.58173   | 57.98407 | 1947.04305                 | 272.16574  | 1311.88496                | 434.20478  | 649.50427   | 60.11851  |
| 461.59             | 3956.66748                 | 222.7525   | 675.6802                  | 181.58964  | 89.01551    | 21.60174 | 1349.63042                 | 175.7465   | 1029.73114                | 345.94794  | 596.49726   | 124.13845 |
| 463.85             | 3059.95088                 | 319.32852  | 513.98442                 | 179.29121  | 92.80746    | 8.13438  | 849.33981                  | 138.01037  | 745.67504                 | 322.81816  | 557.49449   | 94.58672  |
| 466.11             | 2066.29693                 | 132.21823  | 408.45979                 | 102.30362  | 118.93799   | 17.88938 | 805.50885                  | 199.43509  | 688.0538                  | 290.73494  | 561.79472   | 126.66397 |
| 468.37             | 1377.03095                 | 94.97414   | 312.38264                 | 121.47354  | 53.38493    | 28.88691 | 490.80576                  | 137.07073  | 612.53596                 | 233.98257  | 693.35792   | 162.73265 |
| 470.62             | 707.81155                  | 125.61997  | 219.34896                 | 117.94655  | 86.11367    | 22.59611 | 472.89636                  | 220.69358  | 468.45471                 | 236.42185  | 588.80536   | 110.2206  |
| 472.88             | 365.96404                  | 123.10561  | 115.28714                 | 117.54977  | 65.76946    | 57.31025 | 262.44394                  | 209.30624  | 420.47167                 | 213.21549  | 571.75367   | 26.37286  |
| 475.14             | 173.14071                  | 87.64302   | 108.47112                 | 177.68925  | 86.33096    | 40.48832 | 393.44466                  | 280.91222  | 382.57829                 | 109.94202  | 396.14719   | 53.21507  |
| 477.39             | 193.9956                   | 128.35195  | 146.56194                 | 94.35114   | 92.11843    | 20.16995 | 523.56723                  | 272.9265   | 379.43056                 | 142.52672  | 438.25881   | 112.4538  |
| 479.65             | 540.1926                   | 204.62441  | 250.61508                 | 121.43378  | 71.11887    | 26.49052 | 660.81711                  | 218.57952  | 417.68376                 | 113.52411  | 395.02903   | 172.37985 |
| 481.9              | 779.40454                  | 221.0505   | 301.06062                 | 105.1404   | 80.98383    | 4.91747  | 924.53498                  | 399.76209  | 459.65936                 | 111.2109   | 320.06427   | 92.91042  |
| 484.15             | 1167.96601                 | 205.16249  | 410.67839                 | 118.588    | 58.70423    | 25.44653 | 844.05889                  | 436.60538  | 483.34339                 | 202.34357  | 240.97193   | 21.27284  |
| 486.4              | 1435.874                   | 223.92697  | 428.58009                 | 43.78409   | 65.27315    | 31.91092 | 836.72363                  | 291.32726  | 521.7181                  | 186.28386  | 252.69688   | 96.69981  |
| 488.65             | 1291.45883                 | 155.86748  | 450.85721                 | 170.10551  | 83.028      | 68.68957 | 808.19571                  | 235.52109  | 337.09464                 | 69.99076   | 226.52478   | 92.08685  |
| 490.9              | 978.05082                  | 203.05902  | 413.58119                 | 127.77526  | 94.31465    | 27.39357 | 586.80562                  | 408.01359  | 232.44586                 | 110.28832  | 230.08153   | 139.45691 |
| 493.15             | 649.9803                   | 70.4888    | 438.12992                 | 197.51004  | 82.48482    | 21.83548 | 737.54726                  | 456.79465  | 252.74588                 | 74.80645   | 246.33442   | 71.33554  |
| 495.39             | 457.91078                  | 155.74402  | 514.19045                 | 330.14154  | 68.5555     | 25.8927  | 698.41477                  | 440.13141  | 105.30772                 | 95.44209   | 47.59194    | 33.6503   |
| 497.64             | 844.49903                  | 220.70854  | 609.78333                 | 505.55321  | 89.21185    | 27.09992 | 1004.73221                 | 414.97706  | 119.44916                 | 133.73081  | 79.1698     | 103.67196 |
| 499.88             | 1674.39977                 | 249.64754  | 796.27281                 | 578.41765  | 84.47947    | 32.48138 | 1669.48783                 | 601.53173  | 275.83221                 | 141.79874  | 204.73254   | 93.4045   |
| 502.13             | 2906.59822                 | 253.35128  | 1194.03487                | 649.792    | 86.71684    | 30.56097 | 2264.33339                 | 666.24524  | 486.79584                 | 42.77004   | 170.2922    | 106.73115 |
| 504.37             | 4276.74627                 | 391.47106  | 1517.77121                | 674.91985  | 110.2833    | 6.25218  | 3154.58729                 | 595.38869  | 649.34969                 | 135.24573  | 233.2031    | 101.47121 |
| 506.61             | 5663.49581                 | 513.87218  | 1837.51687                | 691.84696  | 96.53805    | 44.46351 | 4065.56796                 | 606.57304  | 1032.83237                | 164.05726  | 444.82994   | 125.92364 |
| 508.85             | 6586.16538                 | 651.13669  | 1794.64025                | 537.33289  | 80.49777    | 17.08668 | 4870.92714                 | 599.11487  | 1324.57894                | 269.05077  | 477.54518   | 41.95342  |
| 511.09             | 7428.07354                 | 681.96231  | 1793.50971                | 164.29744  | 80.50972    | 40.28633 | 5550.64991                 | 793.51013  | 1612.92445                | 502.96934  | 540.38688   | 72.72048  |
| 513.33             | 8996.20551                 | 999.54547  | 1997.49362                | 56.9941    | 82.2568     | 64.78204 | 6732.38803                 | 763.13089  | 2174.53729                | 489.28219  | 635.72403   | 81.85197  |
| 515.57             | 11175.87985                | 1067.33386 | 2489.29371                | 182.11342  | 94.75943    | 23.26611 | 8359.45991                 | 926.25946  | 2960.08583                | 557.35402  | 680.25555   | 60.80643  |
| 517.81             | 13679.74843                | 1130.3326  | 3189.27834                | 288.12377  | 90.70765    | 22.92113 | 9895.85063                 | 945.0624   | 3886.90512                | 519.29708  | 732.34028   | 104.09547 |
| 520.04             | 16257.46314                | 1571.63893 | 4050.14923                | 441.41787  | 119.12146   | 58.67414 | 11690.8786                 | 885.68775  | 4847.66353                | 722.28561  | 727.33163   | 95.98113  |
| 522.28             | 18397.00921                | 1650.89197 | 4588.27476                | 531.06238  | 100.01908   | 41.61398 | 13352.86225                | 906.24272  | 5658.69612                | 731.35816  | 846.91278   | 214.09765 |
| 524.51             | 19723.37186                | 1740.41367 | 4987.35662                | 608.08753  | 101.07947   | 17.05293 | 13959.45333                | 758.32037  | 6068.0046                 | 670.04169  | 869.42985   | 189.66033 |
| 526.75             | 19667.53629                | 1450.95543 | 4712.76322                | 509.33117  | 90.64405    | 15.85569 | 13764.97024                | 951.7045   | 5753.25734                | 571.26624  | 910.56156   | 90.01241  |
| 528.98             | 18259.48774                | 1383.40938 | 4179.52957                | 382.62378  | 79.71503    | 55.27841 | 12556.06473                | 796.93665  | 4937.45606                | 554.28209  | 843.3196    | 177.75042 |
| 531.21             | 16437.87808                | 1247.71961 | 3476.02407                | 296.58461  | 125.62625   | 11.07314 | 11199.38857                | 949.51615  | 3867.26914                | 457.19286  | 872.04884   | 22.1227   |
| 533.44             | 13940.69255                | 826.12614  | 2675.94842                | 109.3579   | 71.38455    | 9.65117  | 9403.92682                 | 734.53664  | 2837.36495                | 347.95127  | 799.42681   | 105.76812 |
| 535.67             | 11300.91634                | 627.66819  | 2023.33767                | 117.39948  | 92.98338    | 42.83027 | 7644.9979                  | 726.45307  | 2067.74522                | 311.22769  | 781.79694   | 245.34141 |

|        |            |           |            |           |           |          |            |           |            |           |           |           |
|--------|------------|-----------|------------|-----------|-----------|----------|------------|-----------|------------|-----------|-----------|-----------|
| 537.9  | 9231.5347  | 565.59396 | 1371.89353 | 170.17165 | 75.75549  | 21.76191 | 6212.58691 | 691.02783 | 1530.74498 | 301.16286 | 680.8348  | 97.43142  |
| 540.13 | 7224.53283 | 563.69987 | 888.98437  | 218.33078 | 104.03166 | 11.93848 | 5392.01224 | 499.56617 | 1131.36595 | 281.68882 | 711.21337 | 35.47629  |
| 542.36 | 5681.22929 | 440.49013 | 606.97857  | 168.58993 | 56.48022  | 35.3812  | 4423.25899 | 543.10132 | 975.94317  | 244.53342 | 659.93345 | 202.48403 |
| 544.58 | 4456.27596 | 391.27454 | 432.91113  | 171.86448 | 105.4292  | 43.51497 | 3814.64557 | 714.21877 | 827.47836  | 215.89349 | 708.65822 | 197.02385 |
| 546.81 | 3514.65807 | 272.29787 | 360.13561  | 160.55524 | 86.88528  | 10.38893 | 3317.15706 | 643.89843 | 659.63986  | 86.26229  | 544.04666 | 50.44121  |
| 549.03 | 3159.69417 | 401.91766 | 372.66917  | 241.18329 | 106.51662 | 22.19906 | 2844.77854 | 698.30082 | 717.42791  | 147.38435 | 530.0874  | 66.32086  |
| 551.25 | 3054.36947 | 284.59388 | 439.52412  | 263.25346 | 71.32455  | 48.86838 | 2681.82844 | 511.3867  | 801.17012  | 148.68524 | 410.09751 | 59.92083  |
| 553.47 | 3726.00253 | 414.19791 | 665.38366  | 254.98856 | 71.30271  | 27.44812 | 2593.9585  | 485.52725 | 1197.85765 | 221.34768 | 359.05622 | 101.88001 |
| 555.7  | 4485.24523 | 382.97613 | 1056.26179 | 289.67213 | 96.1175   | 37.34432 | 3078.15379 | 427.93223 | 1667.48023 | 230.80999 | 428.94318 | 149.80733 |
| 557.92 | 5061.0828  | 502.79117 | 1442.48504 | 298.61138 | 71.10801  | 23.64744 | 3402.39942 | 434.55186 | 2041.0276  | 143.09814 | 361.40717 | 147.81635 |
| 560.13 | 5084.83378 | 568.98397 | 1565.04656 | 308.84105 | 94.27648  | 47.66318 | 3859.01378 | 421.03038 | 2264.48947 | 89.74228  | 389.42995 | 104.63918 |
| 562.35 | 4575.15007 | 429.91638 | 1541.93946 | 247.74284 | 86.96456  | 32.10096 | 4230.98196 | 485.38761 | 2274.85559 | 77.27299  | 339.66236 | 44.94906  |
| 564.57 | 4167.01688 | 556.50765 | 1576.82354 | 229.70536 | 87.5114   | 5.99206  | 4765.28905 | 618.69112 | 2242.11567 | 79.37677  | 333.0898  | 56.9119   |
| 566.79 | 3839.41944 | 437.06247 | 1692.69195 | 211.2829  | 105.92399 | 5.70389  | 5045.92012 | 564.98204 | 2331.92611 | 92.0604   | 376.36765 | 123.94504 |
| 569    | 3602.67628 | 337.47396 | 1721.20447 | 163.07677 | 151.87552 | 19.44557 | 4917.1936  | 506.71347 | 2212.94332 | 126.06984 | 403.1549  | 129.12584 |
| 571.22 | 3289.77264 | 458.26501 | 1493.0209  | 262.55524 | 164.03144 | 20.42117 | 4361.09457 | 544.15156 | 1910.82367 | 134.69117 | 404.77897 | 154.21354 |
| 573.43 | 2953.02707 | 249.96185 | 1088.13439 | 200.22707 | 144.37968 | 55.62272 | 3775.6081  | 707.71175 | 1403.22358 | 157.86439 | 395.56802 | 71.34093  |
| 575.64 | 2675.75812 | 301.47216 | 748.20472  | 255.82546 | 147.23575 | 55.31805 | 3424.38594 | 487.02303 | 1078.79942 | 249.28835 | 303.85083 | 142.21532 |
| 577.85 | 2508.95101 | 236.46642 | 546.22503  | 327.01833 | 92.90701  | 24.34416 | 3259.07985 | 587.7172  | 736.54094  | 141.56352 | 203.2905  | 54.97446  |
| 580.06 | 2327.59095 | 240.88125 | 399.51416  | 280.46963 | 102.69511 | 38.16356 | 3067.67491 | 489.52366 | 505.77028  | 125.30374 | 227.22158 | 122.52209 |
| 582.27 | 2001.66317 | 284.12882 | 273.39624  | 299.65873 | 60.89968  | 7.59886  | 2732.48953 | 586.00737 | 325.13753  | 150.94042 | 208.65432 | 144.94006 |
| 584.48 | 1472.48623 | 216.39668 | 360.8638   | 251.48323 | 85.81409  | 27.8927  | 2457.84214 | 537.00003 | 218.95807  | 171.80941 | 223.27361 | 97.98007  |
| 586.69 | 944.712    | 239.63467 | 377.27709  | 172.81224 | 59.74186  | 39.78928 | 2158.7178  | 371.29088 | 86.88238   | 18.40362  | 272.77315 | 38.95796  |
| 588.9  | 565.65903  | 119.81794 | 511.00538  | 324.32189 | 81.65347  | 48.4108  | 1892.10161 | 518.47502 | 32.56712   | 46.62342  | 266.85477 | 102.7034  |
| 591.1  | 531.64553  | 108.25826 | 691.40745  | 405.39498 | 95.86337  | 29.36505 | 1794.6453  | 384.05651 | 177.01392  | 74.84632  | 295.89311 | 129.9     |
| 593.31 | 395.31676  | 46.27359  | 812.85694  | 528.43745 | 62.69189  | 32.87276 | 1455.33398 | 452.80494 | 90.90502   | 94.49443  | 355.26913 | 49.79538  |
| 595.51 | 568.97968  | 142.32933 | 923.7292   | 553.88438 | 117.78912 | 62.46597 | 1375.81938 | 253.65298 | 200.93057  | 138.57055 | 411.36894 | 66.98092  |
| 597.72 | 676.60846  | 355.0239  | 985.73577  | 576.60619 | 101.14797 | 23.25192 | 1266.08658 | 328.32968 | 256.7922   | 93.95377  | 545.91465 | 94.81652  |
| 599.92 | 1411.83768 | 272.15388 | 905.24448  | 519.98211 | 90.76055  | 17.6949  | 1018.78733 | 327.76429 | 441.53182  | 158.71896 | 530.62869 | 128.31095 |
| 602.12 | 1953.63224 | 406.61213 | 911.9452   | 343.2583  | 108.27978 | 55.38985 | 877.57337  | 212.96689 | 554.52921  | 163.2404  | 540.56188 | 115.42691 |
| 604.32 | 2088.29037 | 468.20493 | 800.18227  | 240.60236 | 74.02348  | 12.47701 | 735.42948  | 265.88639 | 659.4945   | 218.80752 | 506.42744 | 198.02082 |
| 606.52 | 1878.44363 | 492.1739  | 582.63335  | 163.00444 | 60.64077  | 44.5231  | 469.33959  | 246.71162 | 548.7977   | 161.21528 | 605.60037 | 34.03008  |
| 608.72 | 1772.39028 | 352.05056 | 419.97595  | 169.68156 | 66.45234  | 45.83099 | 506.95289  | 229.09684 | 658.4703   | 187.96957 | 709.45248 | 167.42518 |
| 610.91 | 2057.76186 | 410.08525 | 474.54453  | 185.42706 | 72.45585  | 26.89613 | 609.9195   | 280.07183 | 581.20378  | 109.78994 | 625.01631 | 68.61767  |
| 613.11 | 2402.85663 | 453.68324 | 571.98825  | 331.96557 | 124.65696 | 18.98562 | 556.5552   | 163.09662 | 625.01731  | 96.31993  | 614.98702 | 98.1284   |
| 615.31 | 2907.97282 | 526.68949 | 693.61581  | 234.26572 | 80.73358  | 46.42756 | 792.83907  | 243.47772 | 707.25666  | 198.94966 | 622.38838 | 104.73673 |
| 617.5  | 3224.74198 | 506.49172 | 674.74008  | 256.79958 | 76.35405  | 17.19621 | 885.07998  | 375.52777 | 673.59382  | 165.44677 | 569.57097 | 79.98442  |
| 619.69 | 3119.46237 | 331.23712 | 616.65309  | 259.53647 | 89.189    | 28.2894  | 1062.25028 | 334.93663 | 738.03096  | 196.36108 | 672.54554 | 81.72018  |
| 621.89 | 2752.76555 | 404.66798 | 564.29691  | 211.58241 | 72.57969  | 43.34168 | 1310.98768 | 315.12097 | 687.89826  | 73.54641  | 609.65036 | 87.97375  |
| 624.08 | 2588.61642 | 356.35677 | 490.59897  | 183.14705 | 113.19958 | 38.07248 | 1295.26321 | 368.32832 | 736.18915  | 247.82178 | 649.21852 | 35.25905  |
| 626.27 | 2355.97989 | 297.58555 | 450.14372  | 201.30885 | 105.72768 | 21.69358 | 1225.04789 | 312.40353 | 652.22548  | 272.5419  | 633.24377 | 191.09478 |
| 628.46 | 1926.48752 | 188.35298 | 495.17835  | 203.39965 | 83.50213  | 41.09133 | 1341.6461  | 328.66298 | 653.99233  | 247.07862 | 624.38097 | 163.88541 |
| 630.65 | 1625.10421 | 90.21731  | 551.95395  | 192.92659 | 59.52011  | 32.96883 | 1486.36221 | 504.83233 | 618.13693  | 125.25101 | 633.28033 | 87.97684  |
| 632.84 | 1199.79487 | 60.93347  | 500.38651  | 155.68393 | 60.78014  | 14.1532  | 1239.83392 | 346.21705 | 573.96889  | 83.12674  | 571.91947 | 49.42823  |
| 635.03 | 779.85774  | 35.38317  | 440.04431  | 69.73017  | 103.62483 | 3.16357  | 1216.03225 | 279.69633 | 524.45877  | 158.41974 | 562.26938 | 56.17164  |
| 637.21 | 513.25769  | 60.89076  | 404.47986  | 124.61017 | 88.7403   | 44.85576 | 899.26158  | 267.29808 | 544.56972  | 205.8899  | 636.29603 | 138.01517 |
| 639.4  | 161.9541   | 143.69198 | 273.22714  | 113.47186 | 95.13921  | 23.93507 | 772.1596   | 352.40802 | 431.59214  | 137.92756 | 598.62647 | 190.30186 |
| 641.58 | 167.23539  | 97.45152  | 192.81807  | 125.82396 | 111.16677 | 15.93935 | 661.69729  | 306.4006  | 460.47719  | 116.31947 | 590.54783 | 174.82654 |
| 643.76 | 61.06691   | 61.31168  | 184.46054  | 129.90498 | 106.16469 | 18.85771 | 620.17715  | 396.20615 | 377.50671  | 40.77813  | 595.67551 | 69.83084  |
| 645.95 | 176.42411  | 88.93979  | 178.71859  | 114.03038 | 110.13158 | 6.62451  | 477.56565  | 276.18011 | 418.62536  | 177.61138 | 556.62001 | 101.04032 |
| 648.13 | 388.29691  | 122.37663 | 151.85231  | 54.03186  | 54.05825  | 4.3199   | 426.82744  | 96.03007  | 300.11068  | 203.70893 | 521.6531  | 156.36448 |
| 650.31 | 795.35158  | 86.8584   | 218.48347  | 60.93689  | 83.92671  | 25.77801 | 275.59263  | 284.166   | 359.23807  | 199.6756  | 519.70782 | 113.0714  |
| 652.49 | 1249.58856 | 164.97182 | 207.9396   | 41.73777  | 95.06519  | 31.25546 | 250.82233  | 212.14693 | 246.61907  | 103.81935 | 585.04647 | 152.73571 |
| 654.67 | 1683.00439 | 263.77946 | 294.89395  | 58.93965  | 76.13654  | 23.66456 | 94.47885   | 122.64547 | 240.19885  | 74.88536  | 382.5939  | 89.67326  |
| 656.85 | 2014.92896 | 339.28252 | 338.03639  | 27.6447   | 68.13349  | 26.52789 | 59.52676   | 84.01987  | 334.59427  | 13.47511  | 451.60235 | 44.38001  |
| 659.02 | 2394.35879 | 299.55326 | 479.37244  | 80.18417  | 130.38615 | 8.39517  | 155.93935  | 26.87005  | 373.42744  | 79.65935  | 308.65889 | 115.42557 |
| 661.2  | 2747.29044 | 350.11168 | 549.22194  | 143.0625  | 88.2319   | 45.82614 | 373.70014  | 42.3141   | 461.65518  | 93.73495  | 329.68259 | 197.36791 |
| 663.37 | 2609.3871  | 202.36752 | 615.55382  | 140.9528  | 89.32917  | 19.65792 | 633.79881  | 65.35946  | 568.23398  | 167.18439 | 378.93045 | 150.11854 |
| 665.55 | 2161.31198 | 136.27333 | 579.98647  | 78.35206  | 127.6698  | 25.77873 | 524.88973  | 177.43146 | 468.11646  | 61.65531  | 308.66321 | 176.18285 |
| 667.72 | 1671.72829 | 27.12897  | 458.11884  | 64.70823  | 86.57794  | 24.38379 | 479.62571  | 67.73315  | 327.91638  | 29.05357  | 293.47662 | 185.68724 |
| 669.89 | 1196.63258 | 159.508   | 395.86607  | 61.29087  | 64.03037  | 60.86451 | 409.99017  | 53.9492   | 183.91128  | 92.51926  | 264.30439 | 67.96725  |
| 672.07 | 896.68803  | 175.65544 | 270.78913  | 32.32785  | 67.67041  | 22.81817 | 315.29823  | 124.46985 | 168.047    | 62.6638   | 152.75212 | 132.33942 |
| 674.24 | 621.55787  | 110.58618 | 155.08363  | 56.4415   | 87.15049  | 58.422   | 244.86549  | 15.72588  | 139.61033  | 36.51932  | 198.43185 | 9.78058   |
| 676.41 | 641.9026   | 51.77443  | 134.27006  | 82.84555  | 68.4638   | 24.9372  | 171.00992  | 153.73151 | 76.22966   | 96.24988  | 160.30009 | 41.64804  |
| 678.57 | 314.37612  | 140.17619 | 149.24006  | 109.82578 | 96.93671  | 19.34597 | 190.71868  | 38.27987  | 53.8762    | 22.11706  | 83.98922  | 12.16972  |

|        |             |            |            |            |           |           |             |            |            |            |            |           |
|--------|-------------|------------|------------|------------|-----------|-----------|-------------|------------|------------|------------|------------|-----------|
| 680.74 | 161.29678   | 108.54286  | 146.59807  | 35.56153   | 67.56936  | 17.694    | 206.65179   | 163.76117  | 86.53327   | 57.70616   | 160.47573  | 63.50999  |
| 682.91 | 93.32019    | 56.52597   | 147.32201  | 123.6391   | 89.35767  | 16.69367  | 248.47406   | 117.71977  | 205.86388  | 11.55582   | 269.41677  | 129.80249 |
| 685.08 | 187.11226   | 68.14787   | 185.43098  | 48.24037   | 65.63839  | 34.88869  | 172.85433   | 53.39028   | 31.69845   | 262.54274  | 219.48027  | 131.82729 |
| 687.24 | 304.35208   | 107.30089  | 208.65171  | 79.9517    | 88.41372  | 39.81423  | 139.13045   | 40.52711   | 265.58459  | 122.89854  | 226.3404   | 105.5347  |
| 689.4  | 411.06127   | 109.76582  | 299.40318  | 61.68976   | 92.0275   | 32.27672  | 189.97907   | 57.75797   | 249.00849  | 99.86196   | 115.01301  | 53.53249  |
| 691.57 | 653.59914   | 11.95091   | 282.12226  | 97.97811   | 73.82292  | 11.49706  | 225.41705   | 38.56683   | 252.17109  | 102.8837   | 182.52196  | 106.27166 |
| 693.73 | 731.99158   | 87.37185   | 301.24046  | 138.8946   | 104.14099 | 29.84436  | 317.46602   | 109.15205  | 264.76723  | 50.80048   | 265.90381  | 42.52387  |
| 695.89 | 934.2584    | 46.59231   | 358.86229  | 95.41454   | 95.66108  | 7.39626   | 561.81756   | 87.48806   | 248.49656  | 114.4625   | 332.205    | 131.26285 |
| 698.05 | 1098.41613  | 25.61702   | 422.76648  | 72.88581   | 98.059    | 21.57866  | 606.82995   | 142.17581  | 385.72962  | 75.68978   | 336.81168  | 66.51899  |
| 700.21 | 1311.81208  | 91.2339    | 436.04909  | 117.65807  | 92.00686  | 33.32462  | 488.19234   | 215.87333  | 460.50855  | 37.94797   | 400.44695  | 111.83718 |
| 702.37 | 1529.46001  | 110.90443  | 575.10787  | 112.62863  | 61.17207  | 47.62574  | 777.59019   | 248.13398  | 576.20802  | 165.38079  | 451.50402  | 44.30339  |
| 704.53 | 1913.04035  | 44.73416   | 504.31109  | 159.78928  | 79.2198   | 23.10427  | 966.70542   | 103.29089  | 583.86576  | 153.81472  | 399.37688  | 47.4268   |
| 706.68 | 2490.2335   | 91.84609   | 626.35692  | 151.3392   | 100.15861 | 52.41002  | 1394.21977  | 61.06928   | 618.18129  | 250.66206  | 469.45832  | 107.84249 |
| 708.84 | 3539.05324  | 199.56105  | 671.93207  | 163.47852  | 106.66656 | 55.20603  | 1837.14814  | 42.57918   | 825.18059  | 202.49293  | 558.80864  | 67.80308  |
| 711    | 4805.84664  | 304.73586  | 842.72134  | 207.40994  | 69.08675  | 14.50825  | 2621.50545  | 237.6969   | 999.21865  | 312.26848  | 567.48604  | 99.72086  |
| 713.15 | 7017.29413  | 527.12949  | 1097.40897 | 258.41161  | 86.09203  | 44.57306  | 3152.63996  | 84.79285   | 1358.98314 | 445.99673  | 669.87654  | 80.82309  |
| 715.3  | 9785.40945  | 860.56253  | 1507.67917 | 173.45739  | 135.02881 | 39.23961  | 3635.89991  | 77.57344   | 1843.49496 | 578.50397  | 693.02815  | 85.45098  |
| 717.46 | 13738.87305 | 1121.33645 | 2513.54951 | 173.26779  | 116.91029 | 13.96179  | 4681.96688  | 141.43547  | 3197.77501 | 853.34024  | 692.31619  | 24.61049  |
| 719.61 | 18257.03199 | 1603.45926 | 4037.7042  | 355.08016  | 56.74719  | 24.73307  | 6711.18912  | 274.48486  | 5672.51087 | 1231.18724 | 669.77764  | 77.11602  |
| 721.76 | 20919.23337 | 1611.76413 | 5733.49414 | 618.77032  | 101.87253 | 17.81941  | 9127.58156  | 267.66794  | 8198.3901  | 1219.72678 | 704.77868  | 78.87691  |
| 723.91 | 20258.49095 | 1272.6079  | 6088.60353 | 800.63363  | 87.29786  | 25.10527  | 10619.1591  | 343.55778  | 8252.10029 | 863.77353  | 619.0139   | 112.08955 |
| 726.06 | 18274.15181 | 1253.8445  | 5100.71662 | 665.52521  | 113.36198 | 19.81857  | 11963.27    | 557.17452  | 6595.66232 | 763.29922  | 653.17342  | 231.14946 |
| 728.2  | 16894.56304 | 1080.20178 | 4345.51762 | 658.21576  | 130.07002 | 47.7873   | 13586.92917 | 1070.93928 | 5503.76378 | 618.7088   | 622.94099  | 126.43485 |
| 730.35 | 15207.40507 | 931.35328  | 3772.69075 | 567.18187  | 87.08324  | 16.3491   | 13453.48487 | 974.49812  | 4434.42557 | 497.62834  | 650.32952  | 103.8959  |
| 732.5  | 12218.69163 | 716.97815  | 2673.58691 | 328.81075  | 107.05805 | 18.53547  | 10710.952   | 698.91007  | 2981.66859 | 317.75156  | 604.34623  | 192.8703  |
| 734.64 | 8951.10317  | 503.37709  | 1657.22364 | 218.95535  | 83.65054  | 14.25215  | 7009.67882  | 571.46709  | 1852.84707 | 291.72807  | 678.32712  | 105.55332 |
| 736.78 | 7226.3201   | 490.14667  | 1130.28517 | 255.36702  | 63.84197  | 16.55612  | 4567.34691  | 305.51858  | 1365.31527 | 292.18869  | 583.60286  | 37.65903  |
| 738.93 | 7090.02284  | 302.13874  | 1038.78905 | 268.91674  | 89.28127  | 18.12682  | 3642.30452  | 342.35727  | 1370.42741 | 457.03385  | 622.16491  | 90.42048  |
| 741.07 | 8052.22514  | 457.52402  | 1325.08618 | 324.94464  | 108.29308 | 22.51433  | 3500.23323  | 100.88559  | 1727.20439 | 372.59372  | 577.33342  | 139.25557 |
| 743.21 | 8399.27409  | 492.1894   | 1497.19412 | 336.67483  | 96.53412  | 46.81134  | 3668.14796  | 315.98051  | 1943.00047 | 383.67718  | 500.42266  | 100.90345 |
| 745.35 | 7936.85013  | 528.05134  | 1419.1304  | 332.5289   | 93.98628  | 13.84227  | 3810.7303   | 186.85911  | 1802.83653 | 376.59112  | 551.74098  | 125.35064 |
| 747.49 | 7613.63366  | 428.83808  | 1194.9126  | 300.88518  | 87.96198  | 44.4225   | 3489.32848  | 128.92706  | 1441.73349 | 307.0446   | 460.9267   | 127.44706 |
| 749.63 | 8186.3051   | 552.86163  | 1082.8916  | 283.68586  | 68.43731  | 20.21008  | 3389.95744  | 77.8132    | 1180.04558 | 231.70025  | 471.27965  | 109.98682 |
| 751.77 | 9515.21155  | 627.8331   | 1084.08495 | 337.38376  | 109.7211  | 17.82756  | 3508.63208  | 142.67534  | 1126.79371 | 268.52283  | 382.09795  | 110.76494 |
| 753.9  | 12282.03343 | 806.63776  | 1509.51021 | 288.53296  | 76.79598  | 14.41742  | 4678.70065  | 297.29781  | 1685.33211 | 348.82706  | 418.34421  | 65.47574  |
| 756.04 | 14914.45116 | 675.80596  | 2167.8516  | 340.39198  | 73.97155  | 17.10598  | 6236.84474  | 404.8169   | 2383.68168 | 451.7421   | 382.31595  | 61.22099  |
| 758.18 | 15152.14516 | 678.10898  | 2803.79334 | 480.04351  | 58.56121  | 29.66038  | 7268.74593  | 441.17383  | 2703.86332 | 323.9542   | 370.97737  | 45.52882  |
| 760.31 | 11295.12919 | 559.64274  | 2216.35298 | 422.06187  | 81.54996  | 45.77761  | 5908.08581  | 377.54256  | 2042.23128 | 140.11204  | 260.62754  | 110.02388 |
| 762.44 | 7710.41699  | 308.06752  | 1259.88139 | 323.47138  | 51.26724  | 37.0354   | 3644.87928  | 237.89828  | 1001.80645 | 68.75873   | 241.2342   | 117.87231 |
| 764.58 | 6187.689    | 352.47266  | 871.39615  | 274.49051  | 83.71109  | 40.67966  | 2443.80793  | 263.82475  | 696.94307  | 156.37347  | 165.10505  | 88.89381  |
| 766.71 | 5588.29229  | 411.57614  | 665.91479  | 358.5966   | 53.56028  | 9.93724   | 1945.55335  | 272.57303  | 595.66198  | 96.8662    | 159.5552   | 56.47753  |
| 768.84 | 5389.24063  | 358.37879  | 566.12145  | 371.3621   | 83.49464  | 16.38577  | 1581.13045  | 236.61045  | 447.97967  | 88.69001   | 161.57702  | 60.45083  |
| 770.97 | 5358.21443  | 264.38343  | 456.67887  | 398.00287  | 76.87382  | 24.74854  | 1599.55415  | 180.40941  | 383.90565  | 99.76907   | 296.84037  | 59.44518  |
| 773.1  | 5626.56079  | 326.0266   | 385.8911   | 427.83329  | 112.72523 | 39.45162  | 1570.83936  | 198.68789  | 312.77942  | 126.38795  | 301.02585  | 86.24641  |
| 775.22 | 6232.96013  | 394.80938  | 392.73439  | 453.32624  | 104.41338 | 62.39766  | 1688.66766  | 208.78235  | 333.60639  | 86.78371   | 374.15251  | 115.80541 |
| 777.35 | 7097.75952  | 366.04641  | 417.54488  | 507.68834  | 88.96159  | 33.36095  | 1802.3873   | 74.97079   | 371.39426  | 53.90107   | 342.57765  | 61.3832   |
| 779.48 | 8492.30607  | 484.95944  | 518.68786  | 512.91782  | 125.06113 | 29.44489  | 2128.34653  | 140.09744  | 459.48542  | 79.29011   | 321.32709  | 80.66973  |
| 781.6  | 10517.94686 | 554.55194  | 639.89039  | 570.96755  | 191.40224 | 60.23492  | 2605.22692  | 172.07502  | 586.22204  | 213.73682  | 372.42988  | 166.65187 |
| 783.73 | 13002.69564 | 671.76619  | 980.57565  | 607.4786   | 203.33685 | 54.78472  | 3243.37673  | 201.28502  | 792.27584  | 302.51796  | 453.58578  | 146.97855 |
| 785.85 | 15645.56617 | 1037.25028 | 1358.18342 | 691.55182  | 256.54515 | 47.76049  | 3952.81086  | 251.189    | 1171.31287 | 295.75105  | 515.82986  | 131.7715  |
| 787.97 | 18358.5722  | 1060.66144 | 1845.47521 | 759.64595  | 228.03639 | 66.53621  | 4859.87756  | 395.58194  | 1464.3304  | 327.81762  | 639.52911  | 91.27558  |
| 790.09 | 20909.72749 | 1292.54502 | 2381.54391 | 886.34555  | 298.48647 | 56.37357  | 5903.59175  | 651.65222  | 1933.32571 | 476.67462  | 653.38039  | 109.26306 |
| 792.21 | 23261.0458  | 1312.39802 | 2892.48245 | 1025.71209 | 338.23512 | 49.19935  | 7113.96835  | 597.82322  | 2339.29607 | 385.84232  | 724.40711  | 162.22721 |
| 794.33 | 24983.8742  | 1290.92806 | 3355.38371 | 1029.9779  | 360.9554  | 77.21767  | 8116.02225  | 614.31141  | 2786.23876 | 556.8622   | 773.95993  | 115.58454 |
| 796.45 | 26434.89313 | 1710.22896 | 3689.34061 | 1120.84466 | 343.65371 | 60.3503   | 9219.10172  | 819.10723  | 3202.48437 | 481.44331  | 862.71925  | 150.39201 |
| 798.57 | 26914.44967 | 1801.25775 | 3930.77938 | 1184.12906 | 424.0031  | 63.10614  | 9956.22166  | 712.44551  | 3570.69685 | 662.16953  | 848.69723  | 141.99452 |
| 800.69 | 26725.89091 | 1737.03088 | 4033.79293 | 1269.0128  | 458.67664 | 89.95358  | 10918.39699 | 732.99447  | 3932.2068  | 660.0913   | 961.90537  | 178.29905 |
| 802.8  | 25465.56394 | 1765.76487 | 4053.47417 | 1273.50828 | 516.34739 | 108.57973 | 11611.64261 | 867.99087  | 4164.01149 | 657.22876  | 1076.35446 | 156.2691  |
| 804.92 | 23611.4825  | 1633.87355 | 3794.58266 | 1255.88907 | 515.02174 | 122.88128 | 12104.97346 | 907.66837  | 4268.1082  | 686.60667  | 1148.0552  | 98.25342  |
| 807.03 | 21454.66037 | 1465.98526 | 3492.54464 | 1123.44366 | 531.03942 | 62.42909  | 12013.73776 | 895.7335   | 4133.16087 | 586.69422  | 1284.35161 | 98.90925  |
| 809.15 | 19056.11128 | 1336.48881 | 2940.45302 | 1131.04315 | 575.07349 | 91.8795   | 11387.95044 | 815.1216   | 3739.83344 | 569.11903  | 1242.58773 | 72.36706  |
| 811.26 | 16990.849   | 1251.76425 | 2477.73404 | 1028.19214 | 568.13034 | 113.66321 | 10336.62641 | 631.48454  | 3361.4565  | 574.41653  | 1209.4409  | 219.91918 |
| 813.37 | 15535.55395 | 1264.52071 | 2060.14726 | 1033.51371 | 572.21638 | 100.44146 | 9602.11391  | 640.53566  | 3105.694   | 601.57192  | 1337.25517 | 242.72523 |
| 815.48 | 14452.23988 | 1096.31009 | 1634.45227 | 902.22105  | 562.00465 | 100.79552 | 8637.09453  | 584.37104  | 2560.20989 | 543.50901  | 1385.37456 | 103.92614 |
| 817.59 | 13568.58721 | 1134.20498 | 1471.07529 | 919.9753   | 585.50156 | 61.44048  | 7776.91651  | 560.42453  | 2283.00142 | 469.69203  | 1378.80975 | 240.25308 |

|        |             |            |            |           |           |           |             |            |            |           |            |           |
|--------|-------------|------------|------------|-----------|-----------|-----------|-------------|------------|------------|-----------|------------|-----------|
| 819.7  | 13188.60971 | 1137.30977 | 1400.44077 | 843.25923 | 642.7135  | 133.2373  | 7100.59476  | 665.56982  | 2109.06588 | 440.77123 | 1331.23811 | 244.75961 |
| 821.81 | 12978.98778 | 964.97536  | 1307.95304 | 787.67363 | 644.9802  | 77.13892  | 6739.81087  | 553.46684  | 2053.0672  | 475.57702 | 1486.67034 | 134.41502 |
| 823.92 | 13002.40185 | 1027.71371 | 1320.32902 | 841.26071 | 675.30805 | 130.40241 | 6365.57975  | 593.53678  | 2009.33598 | 549.23799 | 1547.45046 | 198.50152 |
| 826.02 | 12812.53235 | 996.30751  | 1231.59882 | 836.87542 | 720.03677 | 128.5132  | 6107.24965  | 482.10974  | 1886.20285 | 549.18257 | 1413.92249 | 228.21437 |
| 828.13 | 12675.05968 | 1020.30591 | 1347.777   | 838.48986 | 704.17277 | 140.26514 | 6177.83547  | 537.53641  | 1910.99839 | 572.41482 | 1590.76379 | 214.12654 |
| 830.23 | 12234.99762 | 970.50271  | 1304.54034 | 839.71034 | 725.3891  | 93.29274  | 6007.0188   | 536.2055   | 2013.38654 | 684.94475 | 1613.65174 | 220.55783 |
| 832.34 | 11698.02658 | 1023.60071 | 1256.54804 | 810.48293 | 747.69216 | 73.69073  | 5851.81456  | 471.55681  | 2000.69793 | 706.83883 | 1688.26367 | 198.14236 |
| 834.44 | 11158.16031 | 924.63405  | 1191.44712 | 780.2225  | 778.75501 | 131.47122 | 5596.23765  | 337.7624   | 1753.92981 | 599.99405 | 1752.94363 | 287.38254 |
| 836.54 | 10721.41258 | 894.71222  | 1130.54118 | 707.65048 | 848.91738 | 171.10435 | 5385.303    | 483.57696  | 1920.41279 | 638.90482 | 1769.70231 | 230.94518 |
| 838.64 | 10238.13046 | 886.16051  | 1170.45967 | 653.75152 | 824.51899 | 145.91801 | 5184.02551  | 521.32758  | 1796.81081 | 661.66416 | 1889.21705 | 244.2924  |
| 840.74 | 9657.32771  | 883.46283  | 1029.15516 | 659.27829 | 838.89957 | 142.29426 | 4824.75342  | 334.67665  | 1717.45448 | 656.16584 | 1915.8319  | 171.45383 |
| 842.84 | 9253.35142  | 932.65538  | 1069.22632 | 580.3339  | 914.73219 | 141.09622 | 4654.16833  | 376.22084  | 1651.00773 | 608.79432 | 1866.22421 | 225.15114 |
| 844.94 | 8767.21535  | 886.47395  | 1002.60134 | 542.50347 | 922.02323 | 218.758   | 4474.61848  | 349.00638  | 1605.46784 | 585.4417  | 1973.07134 | 251.77863 |
| 847.04 | 8348.93325  | 801.84087  | 1083.52251 | 576.77123 | 904.44576 | 153.57982 | 4338.11877  | 383.08716  | 1616.49875 | 677.57256 | 1909.05065 | 200.84069 |
| 849.14 | 7912.18554  | 715.26561  | 1036.54678 | 487.0096  | 927.67284 | 158.52167 | 4278.68413  | 346.12253  | 1477.09773 | 582.40912 | 1883.8395  | 180.38795 |
| 851.23 | 7687.98598  | 745.92471  | 995.87707  | 457.33307 | 934.37753 | 153.10331 | 4238.32947  | 457.57789  | 1425.92871 | 583.69281 | 1754.78192 | 272.83102 |
| 853.33 | 7576.34832  | 747.60479  | 1056.69796 | 390.79556 | 925.56622 | 169.38451 | 4426.73636  | 472.00294  | 1283.65565 | 468.23217 | 1799.88859 | 243.12247 |
| 855.42 | 7278.28631  | 695.23689  | 1011.51271 | 376.80882 | 837.57865 | 124.2279  | 4407.91973  | 601.72481  | 1270.94246 | 494.60588 | 1628.83689 | 169.47122 |
| 857.51 | 6935.48038  | 577.75673  | 928.15628  | 343.4579  | 797.75453 | 127.70041 | 4559.89448  | 570.35647  | 1040.45309 | 475.52196 | 1510.97083 | 221.24507 |
| 859.61 | 6521.27762  | 638.93144  | 806.46083  | 311.54058 | 699.76694 | 111.76312 | 4384.3422   | 488.16593  | 777.1848   | 305.24203 | 1258.30111 | 127.68102 |
| 861.7  | 6420.35844  | 560.41598  | 748.25083  | 326.34056 | 604.95559 | 145.6212  | 4071.27779  | 454.3695   | 739.13417  | 223.70892 | 1286.50509 | 210.39657 |
| 863.79 | 5992.73661  | 510.02169  | 574.33113  | 266.15845 | 462.32689 | 106.53357 | 3405.71618  | 438.81257  | 607.96114  | 218.18626 | 1026.59346 | 95.24845  |
| 865.88 | 5503.42587  | 520.04117  | 569.48971  | 273.74447 | 419.55389 | 82.09338  | 2668.67227  | 300.72493  | 462.32237  | 167.36726 | 835.91025  | 107.33933 |
| 867.97 | 5332.77331  | 440.15274  | 442.17548  | 244.10971 | 411.97632 | 64.97453  | 2347.16098  | 299.40321  | 506.53627  | 235.07811 | 814.13278  | 253.53965 |
| 870.06 | 5136.12603  | 425.64902  | 365.83238  | 252.6564  | 335.26724 | 81.92178  | 2030.86389  | 487.61538  | 463.91734  | 145.24804 | 766.2712   | 201.23813 |
| 872.14 | 4831.49778  | 345.886    | 311.91253  | 180.50729 | 273.43305 | 50.74154  | 1712.46258  | 363.77713  | 332.22872  | 141.35099 | 641.33359  | 180.94485 |
| 874.23 | 4532.23564  | 346.25361  | 246.54457  | 239.77948 | 215.81347 | 13.5246   | 1461.97197  | 644.3474   | 293.08992  | 252.34236 | 621.99188  | 152.25794 |
| 876.31 | 4258.35337  | 365.05286  | 164.86426  | 230.42866 | 160.08157 | 82.84662  | 1429.40689  | 580.79898  | 177.49675  | 97.46425  | 448.24596  | 122.24519 |
| 878.4  | 4225.19806  | 250.90985  | 158.70252  | 129.15453 | 112.2436  | 26.42718  | 1233.77908  | 678.65949  | 195.6418   | 40.27874  | 424.42464  | 110.88565 |
| 880.48 | 4160.11679  | 338.20785  | 171.60897  | 89.61393  | 74.63178  | 4.24235   | 1203.09701  | 635.15818  | 231.51048  | 96.15296  | 403.52219  | 94.58884  |
| 882.56 | 4146.12333  | 239.81294  | 150.1696   | 77.88836  | 73.56846  | 40.61663  | 1070.036    | 552.20916  | 136.42863  | 39.23198  | 315.53275  | 191.28615 |
| 884.65 | 4292.89809  | 311.59522  | 184.3349   | 54.14665  | 79.38063  | 25.60024  | 1306.93772  | 622.60375  | 235.06108  | 129.86989 | 358.45107  | 71.19227  |
| 886.73 | 4460.45482  | 365.37076  | 145.42844  | 77.16033  | 85.06709  | 19.7375   | 1267.81112  | 765.23003  | 191.4156   | 70.48108  | 302.60961  | 62.11707  |
| 888.81 | 4649.14062  | 398.26751  | 170.46656  | 68.951    | 70.96269  | 26.63486  | 1330.66355  | 651.97157  | 192.17208  | 97.60912  | 309.34331  | 84.33102  |
| 890.89 | 4934.96924  | 335.71525  | 220.50725  | 46.94482  | 65.40279  | 23.25651  | 1681.83696  | 634.60005  | 234.35109  | 110.44146 | 313.65867  | 80.42649  |
| 892.97 | 5432.28777  | 441.59588  | 245.97346  | 63.77427  | 83.72898  | 22.6436   | 1834.3384   | 578.46947  | 316.98045  | 149.78199 | 356.23342  | 74.97221  |
| 895.04 | 6108.4433   | 477.70679  | 326.2998   | 64.43262  | 82.29122  | 28.59777  | 2284.50734  | 683.84787  | 475.09349  | 93.27928  | 454.7497   | 70.37216  |
| 897.12 | 6944.78291  | 538.70517  | 494.2596   | 69.51828  | 31.10716  | 24.44654  | 3034.68324  | 479.89609  | 703.3923   | 227.52361 | 462.55892  | 94.90288  |
| 899.19 | 8123.65369  | 628.99855  | 648.94516  | 41.94849  | 83.86279  | 30.98705  | 3654.87222  | 549.35105  | 930.5745   | 255.89344 | 507.01102  | 117.02951 |
| 901.27 | 9572.40273  | 870.83214  | 980.09549  | 100.60338 | 109.26619 | 18.27001  | 4740.0804   | 648.81478  | 1275.6678  | 187.70507 | 577.45415  | 146.61901 |
| 903.34 | 11784.04379 | 979.34184  | 1428.78102 | 103.41632 | 123.02653 | 45.06284  | 6498.31392  | 597.34474  | 1871.69971 | 226.80532 | 609.89954  | 197.75666 |
| 905.42 | 14725.25728 | 1209.72826 | 2270.40555 | 361.89653 | 116.84409 | 49.98241  | 9062.24556  | 571.31352  | 3028.69779 | 430.48502 | 737.35251  | 147.13465 |
| 907.49 | 18177.3903  | 1441.34443 | 3401.03951 | 551.3422  | 163.74593 | 27.91509  | 11892.54812 | 785.55052  | 4695.35621 | 564.04343 | 743.81325  | 184.24065 |
| 909.56 | 21351.78893 | 1555.45941 | 4617.42    | 660.68251 | 157.09306 | 33.73391  | 14511.56104 | 757.51106  | 6418.70253 | 561.3432  | 674.27765  | 178.09907 |
| 911.63 | 23822.1366  | 1656.13936 | 5486.61747 | 774.51263 | 131.90569 | 66.25326  | 15496.95713 | 994.34155  | 7545.43095 | 601.35549 | 733.73745  | 115.85169 |
| 913.7  | 24529.44405 | 1562.16296 | 5465.36903 | 659.00467 | 150.53333 | 42.0798   | 13673.7425  | 1179.60715 | 6627.23566 | 476.07591 | 715.18005  | 148.50553 |
| 915.77 | 22659.39272 | 1239.53794 | 4545.74511 | 633.67834 | 159.32699 | 35.97541  | 10413.92329 | 1051.17778 | 4672.81087 | 451.2865  | 749.58938  | 111.45392 |
| 917.84 | 18262.99635 | 900.94138  | 3188.1495  | 341.79546 | 141.29579 | 72.7473   | 6786.17227  | 992.04601  | 2735.18411 | 372.48726 | 609.61176  | 181.72084 |
| 919.9  | 13722.60204 | 865.47662  | 2020.98596 | 139.2016  | 152.77347 | 55.26925  | 4513.16225  | 810.73486  | 1524.38292 | 286.22623 | 673.22432  | 129.24006 |
| 921.97 | 10530.55686 | 684.83022  | 1320.9916  | 117.48266 | 147.75869 | 14.52302  | 3180.89934  | 594.06224  | 1121.1015  | 333.8779  | 678.73342  | 103.58601 |
| 924.04 | 8870.20792  | 651.47533  | 909.5702   | 123.34214 | 181.57603 | 38.92085  | 2463.05635  | 562.74212  | 783.36739  | 258.60245 | 733.44015  | 184.81195 |
| 926.1  | 8577.56895  | 716.81143  | 851.12553  | 189.3653  | 166.20675 | 41.578    | 2147.97271  | 546.56267  | 708.2081   | 166.55592 | 748.97431  | 146.44659 |
| 928.16 | 9129.98707  | 763.63116  | 871.39471  | 156.04201 | 183.62683 | 18.76822  | 2069.32123  | 632.46389  | 771.98226  | 280.51728 | 649.29563  | 93.48731  |
| 930.23 | 10428.476   | 747.31427  | 1044.78149 | 142.52713 | 135.14071 | 23.6045   | 2106.7747   | 638.43147  | 764.71112  | 262.06041 | 632.69353  | 108.47444 |
| 932.29 | 12127.04953 | 826.70534  | 1319.02299 | 187.75187 | 137.04994 | 6.48992   | 2281.33924  | 499.08329  | 974.74694  | 588.11891 | 199.61086  |           |
| 934.35 | 13924.05472 | 924.78423  | 1762.18964 | 236.02733 | 150.98143 | 12.28814  | 2675.3543   | 545.54719  | 1301.10623 | 384.72726 | 575.51577  | 90.29057  |
| 936.41 | 15022.172   | 1100.69768 | 2171.35188 | 331.28555 | 207.88043 | 42.63711  | 2995.49267  | 775.97145  | 1607.47175 | 310.91192 | 584.49063  | 72.46341  |
| 938.47 | 14681.74846 | 1136.23987 | 2490.91348 | 358.36806 | 128.68113 | 7.86111   | 3057.76047  | 640.79584  | 1899.52631 | 375.84056 | 522.64399  | 107.1645  |
| 940.53 | 13011.79785 | 1074.99754 | 2316.94487 | 328.31122 | 147.31527 | 43.43173  | 2671.8305   | 754.99669  | 1880.28603 | 292.62089 | 448.90358  | 93.53605  |
| 942.59 | 10555.0006  | 755.66512  | 1862.18316 | 322.05618 | 124.70044 | 47.69232  | 2350.0422   | 792.64382  | 1525.10035 | 185.70291 | 310.52628  | 83.45009  |
| 944.64 | 8424.03713  | 683.64275  | 1357.69879 | 288.72358 | 64.41362  | 14.77738  | 2049.4017   | 786.25203  | 1142.65207 | 165.05289 | 316.10109  | 48.089    |
| 946.7  | 6974.92119  | 509.46521  | 826.22885  | 303.18919 | 128.02584 | 40.17119  | 1625.91512  | 783.00973  | 738.9573   | 106.34382 | 264.88818  | 35.51416  |
| 948.75 | 5943.99987  | 195.93439  | 584.17712  | 292.01389 | 51.78353  | 23.51173  | 1506.58854  | 700.1806   | 519.03218  | 138.2279  | 362.15204  | 65.46351  |
| 950.81 | 5557.95359  | 341.87872  | 447.9449   | 289.8749  | 88.26276  | 11.54491  | 1453.42489  | 694.42876  | 418.22333  | 24.57458  | 325.49692  | 62.91729  |
| 952.86 | 5131.79611  | 321.68574  | 433.56825  | 303.52831 | 94.38676  | 40.67912  | 1486.75752  | 839.52396  | 456.87163  | 7.67981   | 288.86275  | 103.67549 |



|         |            |           |           |           |           |          |            |           |            |           |           |           |
|---------|------------|-----------|-----------|-----------|-----------|----------|------------|-----------|------------|-----------|-----------|-----------|
| 954.91  | 5071.20784 | 272.62054 | 389.07489 | 354.23474 | 73.07806  | 32.74142 | 1480.91719 | 813.8467  | 349.3159   | 162.71166 | 170.52674 | 161.31412 |
| 956.96  | 5071.20255 | 248.21466 | 351.82333 | 383.88287 | 87.25715  | 19.84451 | 1435.56705 | 645.44215 | 334.89147  | 82.08973  | 142.10485 | 84.79431  |
| 959.01  | 5147.46065 | 246.60073 | 443.85548 | 372.27505 | 48.84991  | 18.90444 | 1492.70244 | 591.92289 | 390.26776  | 64.94958  | 249.89007 | 121.36875 |
| 961.06  | 5474.66257 | 245.29017 | 445.24478 | 383.29561 | 69.44848  | 4.38371  | 1627.31573 | 681.10536 | 398.11553  | 18.82513  | 153.18694 | 51.65947  |
| 963.11  | 5773.82205 | 403.90061 | 528.4034  | 369.90571 | 52.99332  | 31.11677 | 1755.39682 | 664.45167 | 483.10453  | 68.83888  | 235.30707 | 92.26025  |
| 965.16  | 5877.95286 | 370.23367 | 591.08309 | 450.49773 | 61.09833  | 27.43921 | 1922.26658 | 567.4404  | 468.57     | 24.84521  | 215.23982 | 49.91597  |
| 967.21  | 6234.06875 | 322.39999 | 648.68914 | 379.06375 | 88.05737  | 12.1638  | 2164.24535 | 543.67608 | 571.17593  | 182.90344 | 215.31556 | 22.60572  |
| 969.26  | 6621.85014 | 397.08246 | 766.29638 | 474.56921 | 59.50775  | 45.63057 | 2476.98683 | 511.48132 | 706.91567  | 168.05574 | 212.20649 | 81.86687  |
| 971.3   | 6928.31079 | 341.98484 | 908.97466 | 441.9187  | 77.41939  | 45.0233  | 3008.14471 | 452.24854 | 892.44255  | 193.78753 | 314.25997 | 125.47339 |
| 973.35  | 7181.79778 | 389.8874  | 922.78768 | 470.93075 | 27.10628  | 39.04577 | 3285.03934 | 409.90256 | 1034.07232 | 127.0191  | 339.832   | 94.73961  |
| 975.39  | 7262.32486 | 441.66865 | 939.77831 | 462.72703 | 46.2193   | 23.60063 | 3602.65773 | 479.75365 | 1070.45388 | 150.59699 | 296.61628 | 11.63685  |
| 977.43  | 7059.23914 | 444.12639 | 867.30207 | 512.14105 | 78.09971  | 51.88909 | 3784.32024 | 371.91107 | 1132.90275 | 82.70897  | 267.30983 | 96.75544  |
| 979.47  | 6857.22102 | 491.06101 | 754.02868 | 506.24505 | 53.10484  | 16.55397 | 3908.34723 | 398.34697 | 1110.06781 | 205.50711 | 400.94808 | 79.5144   |
| 981.52  | 6522.28427 | 424.20372 | 636.94756 | 475.64511 | 76.5953   | 25.22581 | 3690.72571 | 452.33194 | 1045.59789 | 176.51362 | 404.57284 | 42.29433  |
| 983.56  | 6025.77596 | 323.06874 | 529.04807 | 402.86675 | 82.61166  | 16.1676  | 3322.44271 | 293.70103 | 866.80852  | 219.70861 | 450.89329 | 63.07789  |
| 985.6   | 5670.37653 | 326.52765 | 433.3304  | 362.5872  | 57.86506  | 46.71606 | 2727.48524 | 334.78229 | 734.01519  | 196.46862 | 357.28594 | 211.42519 |
| 987.64  | 5400.76639 | 364.87026 | 466.14021 | 384.66761 | 83.40144  | 46.49571 | 2267.17365 | 310.77776 | 679.533    | 211.76213 | 423.79261 | 108.2156  |
| 989.67  | 5127.62597 | 347.08679 | 506.82858 | 430.2487  | 77.27813  | 16.33353 | 2001.16164 | 183.14666 | 628.67368  | 229.35804 | 510.79106 | 142.17641 |
| 991.71  | 4748.30235 | 361.36039 | 580.74721 | 415.51019 | 131.55368 | 49.52424 | 1884.43622 | 153.52612 | 626.74425  | 267.21774 | 451.32552 | 97.97853  |
| 993.75  | 4358.80928 | 378.03003 | 637.91197 | 361.65382 | 135.62355 | 54.64196 | 1739.98441 | 150.59702 | 660.04719  | 199.45932 | 538.43649 | 191.044   |
| 995.78  | 3916.8272  | 313.14934 | 629.65691 | 315.30485 | 171.21096 | 66.17052 | 1610.79324 | 100.7141  | 578.54801  | 200.83859 | 687.49649 | 190.58712 |
| 997.82  | 3409.36985 | 336.39053 | 621.63717 | 294.50277 | 195.6995  | 30.49569 | 1412.51638 | 126.39663 | 580.87397  | 138.83911 | 798.54056 | 145.3103  |
| 999.85  | 2590.45099 | 262.77477 | 574.15072 | 288.46567 | 163.46697 | 61.55428 | 1191.14087 | 145.08147 | 594.9807   | 165.83211 | 763.26656 | 105.62702 |
| 1001.88 | 1926.75104 | 225.75105 | 503.80831 | 321.40952 | 137.55735 | 42.41308 | 770.32037  | 168.19855 | 497.81693  | 161.98569 | 636.37089 | 100.35779 |
| 1003.91 | 1508.61709 | 208.08574 | 543.52717 | 307.3223  | 83.33778  | 19.64814 | 649.70859  | 94.70633  | 415.32426  | 115.36294 | 529.54777 | 88.28981  |
| 1005.95 | 1258.39622 | 159.0276  | 599.89873 | 387.36794 | 83.83324  | 29.39071 | 387.29067  | 88.6462   | 340.43908  | 100.44328 | 516.81878 | 61.41555  |
| 1007.98 | 1161.76886 | 180.84619 | 802.52095 | 409.82508 | 90.0699   | 34.32446 | 388.04859  | 88.71988  | 377.76245  | 90.13203  | 488.86787 | 98.4666   |
| 1010.01 | 1064.41536 | 196.60576 | 879.0039  | 397.32578 | 58.74159  | 18.51773 | 406.29732  | 48.84098  | 397.56318  | 26.17738  | 511.37539 | 135.66028 |
| 1012.03 | 929.34909  | 194.17623 | 898.94727 | 412.97018 | 67.54078  | 36.54286 | 252.6854   | 54.9451   | 354.77629  | 60.09347  | 422.35216 | 84.29387  |
| 1014.06 | 830.91445  | 106.85257 | 986.27927 | 512.33724 | 66.83761  | 11.7934  | 303.19227  | 4.98395   | 307.00218  | 79.26998  | 433.47204 | 82.31986  |
| 1016.09 | 764.78505  | 161.56989 | 933.25836 | 467.39764 | 75.00976  | 3.42138  | 223.13294  | 55.792    | 325.5084   | 98.02699  | 424.40877 | 139.45195 |
| 1018.12 | 626.62935  | 140.15776 | 815.47186 | 438.64448 | 56.10934  | 19.7456  | 183.48937  | 7.29568   | 287.23168  | 46.27468  | 441.83549 | 95.15961  |
| 1020.14 | 556.77904  | 47.4127   | 670.50337 | 346.54101 | 78.85964  | 21.31174 | 103.91355  | 16.39739  | 278.44378  | 44.36089  | 391.42512 | 140.82359 |
| 1022.16 | 564.56313  | 85.8748   | 569.59121 | 312.20297 | 100.32937 | 27.31809 | 157.7292   | 36.69278  | 255.75309  | 69.71149  | 463.18298 | 82.39367  |
| 1024.19 | 476.97314  | 148.56856 | 506.96781 | 232.91785 | 116.92355 | 29.79227 | 236.60168  | 69.56545  | 227.7717   | 124.10545 | 367.11555 | 65.22584  |
| 1026.21 | 483.3283   | 41.2196   | 444.20338 | 163.4848  | 101.70846 | 37.77434 | 172.53584  | 155.24424 | 226.44965  | 70.12716  | 415.56079 | 29.68643  |
| 1028.23 | 362.94506  | 35.82081  | 341.53411 | 191.37855 | 90.07338  | 19.20388 | 270.206    | 91.64534  | 164.07609  | 87.00679  | 382.85887 | 91.98554  |
| 1030.25 | 400.47016  | 27.63367  | 318.84446 | 132.56432 | 119.06884 | 27.87338 | 151.29195  | 125.15145 | 155.27937  | 112.77275 | 439.68341 | 183.29592 |
| 1032.27 | 340.21895  | 72.20954  | 282.68389 | 72.51305  | 134.74387 | 3.87149  | 215.80826  | 141.37274 | 190.36292  | 154.55243 | 419.37622 | 90.30002  |
| 1034.29 | 332.84045  | 128.97948 | 290.26798 | 133.40159 | 131.13775 | 20.04187 | 342.77587  | 90.58908  | 234.63902  | 126.20186 | 509.61222 | 114.68792 |
| 1036.31 | 436.31984  | 36.15266  | 296.48042 | 105.63903 | 132.94175 | 24.24314 | 317.88605  | 126.64626 | 269.42727  | 78.79772  | 411.39967 | 57.77247  |
| 1038.33 | 441.31215  | 111.29472 | 302.5424  | 42.39065  | 129.5055  | 37.7828  | 341.82864  | 147.17263 | 157.38614  | 90.79163  | 428.74309 | 100.67456 |
| 1040.35 | 480.47136  | 12.5571   | 274.3442  | 47.75702  | 118.16672 | 33.45793 | 356.62626  | 93.03056  | 197.51144  | 52.47684  | 344.31407 | 15.55046  |
| 1042.36 | 392.7834   | 56.0488   | 229.4349  | 61.33931  | 140.59224 | 41.19592 | 299.29995  | 206.73763 | 136.14108  | 83.10453  | 389.45044 | 101.34739 |
| 1044.38 | 296.23146  | 44.6662   | 169.69614 | 59.82733  | 103.77199 | 20.63997 | 298.87092  | 132.38586 | 155.28667  | 115.89552 | 362.49316 | 64.30998  |
| 1046.39 | 246.79935  | 54.55461  | 159.35124 | 63.23386  | 57.68606  | 37.82515 | 356.02724  | 221.72287 | 38.63611   | 50.44067  | 294.11776 | 34.44545  |
| 1048.41 | 287.14223  | 22.50863  | 179.3221  | 66.55732  | 77.97441  | 6.61028  | 350.1239   | 126.10626 | 134.88608  | 116.96706 | 255.33546 | 146.09748 |
| 1050.42 | 351.92201  | 102.9143  | 138.56675 | 90.89442  | 98.28842  | 62.86411 | 439.8471   | 54.99008  | 158.74698  | 35.76277  | 384.49603 | 145.89144 |
| 1052.43 | 434.13901  | 30.57722  | 229.07128 | 119.43782 | 83.28281  | 17.06464 | 543.54937  | 156.4916  | 238.60553  | 151.75281 | 365.62275 | 64.99403  |
| 1054.44 | 580.46256  | 191.41261 | 299.86618 | 99.11361  | 83.61316  | 38.6054  | 539.24797  | 198.41419 | 251.85709  | 86.71945  | 399.407   | 98.40321  |
| 1056.45 | 696.22767  | 71.62612  | 332.32622 | 122.67342 | 109.26959 | 16.54663 | 693.95567  | 114.84221 | 365.23572  | 110.87628 | 317.54239 | 121.31229 |
| 1058.46 | 602.42954  | 119.44016 | 389.49251 | 93.65218  | 110.91133 | 35.71719 | 743.68066  | 212.57249 | 407.8136   | 180.0479  | 408.05668 | 40.6894   |
| 1060.47 | 569.72298  | 179.48642 | 383.40328 | 66.60267  | 131.85584 | 5.35405  | 810.76117  | 195.48264 | 455.66296  | 85.72671  | 458.31522 | 32.066    |
| 1062.48 | 405.75526  | 75.67751  | 423.4234  | 31.99345  | 86.07938  | 9.95667  | 714.86676  | 182.19365 | 437.85446  | 160.43187 | 508.68381 | 112.52129 |
| 1064.48 | 286.83428  | 92.04681  | 387.57217 | 89.05559  | 98.54348  | 32.98188 | 804.66658  | 90.83303  | 456.78842  | 34.67718  | 409.52663 | 194.72152 |
| 1066.49 | 219.93473  | 115.61077 | 328.18216 | 10.04871  | 78.87643  | 53.05803 | 885.82748  | 190.86745 | 462.1956   | 170.06713 | 418.8709  | 51.12825  |
| 1068.49 | 51.36972   | 70.36121  | 259.57758 | 21.16815  | 67.36909  | 23.37659 | 787.3479   | 301.00155 | 432.46978  | 154.96272 | 377.74427 | 104.18387 |
| 1070.5  | 136.4602   | 41.38906  | 241.05778 | 20.69018  | 83.64878  | 20.36853 | 815.22616  | 192.78146 | 358.66785  | 150.63301 | 411.50772 | 114.24148 |
| 1072.5  | 269.87536  | 37.93513  | 215.25147 | 27.58754  | 70.35044  | 49.77311 | 1039.7931  | 209.59224 | 426.51076  | 180.54639 | 463.52395 | 84.95397  |
| 1074.5  | 493.96241  | 33.65974  | 211.12402 | 9.21267   | 72.11009  | 43.14623 | 1066.37931 | 356.91869 | 490.38648  | 64.84504  | 429.82266 | 91.16861  |
| 1076.51 | 527.07435  | 13.10325  | 203.32116 | 27.33972  | 40.90357  | 38.72564 | 1047.64867 | 306.96289 | 476.34722  | 232.55592 | 478.76509 | 118.61463 |
| 1078.51 | 578.89403  | 110.13913 | 185.17061 | 8.28189   | 78.71244  | 16.57179 | 1080.93176 | 236.68058 | 455.1069   | 235.93181 | 516.71203 | 137.95667 |
| 1080.51 | 825.76644  | 81.7444   | 182.68519 | 37.47424  | 86.53643  | 26.01252 | 1233.89246 | 213.25373 | 445.04305  | 270.78235 | 473.02181 | 76.75953  |
| 1082.51 | 987.02986  | 25.19973  | 169.57016 | 79.66607  | 49.71162  | 39.55028 | 1443.52801 | 317.97803 | 484.19736  | 99.00284  | 445.71551 | 123.02755 |
| 1084.51 | 1287.68571 | 70.97955  | 234.22416 | 25.33555  | 63.24068  | 16.26947 | 1506.16896 | 375.83223 | 518.61061  | 163.41704 | 435.81213 | 94.32759  |



|         |             |            |            |            |           |           |             |            |            |           |           |           |
|---------|-------------|------------|------------|------------|-----------|-----------|-------------|------------|------------|-----------|-----------|-----------|
| 1086.5  | 1544.73482  | 177.7045   | 264.74449  | 80.0715    | 88.14093  | 22.76217  | 1700.14586  | 389.9372   | 570.6521   | 214.90372 | 582.66287 | 81.01561  |
| 1088.5  | 1902.17801  | 200.41558  | 238.90118  | 95.90639   | 70.4389   | 16.65581  | 1867.45594  | 304.05774  | 630.35244  | 237.49288 | 463.61826 | 80.26482  |
| 1090.5  | 2078.68275  | 220.34368  | 278.47043  | 97.73344   | 91.49374  | 11.69711  | 2124.76308  | 439.50959  | 613.73722  | 221.45227 | 463.68926 | 57.08906  |
| 1092.49 | 2395.91654  | 178.18856  | 267.56627  | 68.24019   | 83.00427  | 21.39867  | 2343.73119  | 356.77323  | 708.16082  | 274.8377  | 421.21836 | 123.51457 |
| 1094.49 | 2814.21352  | 279.13771  | 307.97436  | 66.33686   | 87.66722  | 12.23389  | 2564.6908   | 362.90756  | 677.30639  | 291.19213 | 401.54618 | 109.72058 |
| 1096.48 | 3233.57451  | 343.11547  | 387.47382  | 86.0367    | 108.84755 | 22.83376  | 2773.63915  | 319.68422  | 716.51875  | 232.37086 | 479.34663 | 102.06269 |
| 1098.47 | 3634.667    | 410.76073  | 350.1711   | 83.9097    | 67.57632  | 15.12125  | 3148.90679  | 278.47638  | 770.13875  | 179.52196 | 497.29432 | 105.07915 |
| 1100.46 | 4092.15847  | 499.06789  | 396.49155  | 101.13164  | 84.87608  | 54.25573  | 3334.82428  | 400.6002   | 740.50264  | 325.69038 | 471.39473 | 83.67843  |
| 1102.45 | 4473.04973  | 438.10004  | 495.84827  | 97.47144   | 77.11018  | 18.24774  | 3469.05551  | 275.89312  | 733.61056  | 301.70324 | 372.65011 | 113.87791 |
| 1104.45 | 4852.00827  | 486.81718  | 506.64131  | 124.57403  | 115.64354 | 42.14184  | 3759.26437  | 315.57477  | 708.12439  | 207.91824 | 424.3939  | 8.4839    |
| 1106.43 | 5099.03491  | 465.47993  | 604.2536   | 121.26737  | 90.51141  | 13.13643  | 3790.11474  | 317.6586   | 784.70106  | 218.50949 | 350.62814 | 81.27347  |
| 1108.42 | 5405.79714  | 583.11391  | 657.71946  | 183.25146  | 107.07517 | 40.08398  | 3940.60385  | 395.34272  | 856.32757  | 198.47988 | 341.02133 | 63.03723  |
| 1110.41 | 5597.96242  | 604.84908  | 742.38802  | 89.27458   | 117.36113 | 39.72846  | 4080.06226  | 380.71128  | 913.32127  | 305.12676 | 347.24482 | 16.635    |
| 1112.4  | 5805.19826  | 529.40551  | 821.25466  | 103.33833  | 133.05471 | 20.54744  | 4304.82051  | 381.82738  | 1047.66408 | 232.49752 | 288.97323 | 97.9759   |
| 1114.38 | 6052.8388   | 638.82471  | 954.98054  | 85.23916   | 151.17368 | 27.62509  | 4718.87585  | 464.8466   | 1274.00296 | 266.30844 | 413.88418 | 111.34774 |
| 1116.37 | 5934.88486  | 553.73244  | 1014.56004 | 40.03318   | 162.39382 | 19.33282  | 4644.55881  | 468.35364  | 1339.31803 | 294.78335 | 406.6607  | 49.61677  |
| 1118.35 | 6167.33726  | 663.42171  | 1200.65417 | 115.72693  | 203.38068 | 18.24674  | 4833.5333   | 389.56371  | 1397.58941 | 303.58046 | 481.65271 | 152.25825 |
| 1120.34 | 6173.53014  | 618.08429  | 1253.92397 | 142.71522  | 252.79018 | 37.92327  | 4522.46319  | 397.53753  | 1424.46385 | 331.2549  | 487.21066 | 30.36456  |
| 1122.32 | 6182.79766  | 707.81265  | 1218.36379 | 172.1213   | 270.27773 | 45.91142  | 4452.67905  | 487.07798  | 1301.92148 | 276.21546 | 490.34932 | 97.08734  |
| 1124.3  | 6296.47396  | 651.28418  | 1277.96799 | 239.09538  | 308.16539 | 42.67937  | 4046.84477  | 538.96909  | 1340.60907 | 349.63993 | 532.41407 | 123.2762  |
| 1126.28 | 6390.55988  | 706.65875  | 1363.3976  | 193.7892   | 317.44186 | 51.65534  | 4006.62423  | 570.84168  | 1205.84006 | 375.02949 | 649.08068 | 159.42367 |
| 1128.26 | 6616.72288  | 632.2566   | 1476.9803  | 244.56308  | 418.76251 | 60.02028  | 3946.68132  | 663.55318  | 1265.26122 | 343.01715 | 781.02035 | 143.09298 |
| 1130.24 | 6984.29712  | 666.52082  | 1429.04379 | 303.05089  | 401.44938 | 74.19347  | 3997.34661  | 668.70887  | 1357.51928 | 335.2998  | 735.56512 | 87.1204   |
| 1132.22 | 7324.95008  | 739.22923  | 1493.58244 | 182.86177  | 412.15786 | 61.04631  | 4182.28398  | 748.39866  | 1438.26096 | 333.79056 | 821.04506 | 151.31228 |
| 1134.2  | 7680.34926  | 821.81557  | 1507.92392 | 167.42133  | 442.5433  | 77.00059  | 4267.82398  | 770.22306  | 1423.79965 | 407.17957 | 821.78674 | 131.31299 |
| 1136.18 | 7883.16212  | 861.63499  | 1563.72927 | 135.61765  | 460.26109 | 55.31162  | 4412.96385  | 727.85409  | 1531.11541 | 442.49902 | 881.1153  | 239.38729 |
| 1138.15 | 8072.72283  | 780.1646   | 1500.99284 | 142.20584  | 464.29992 | 39.91745  | 4524.03413  | 688.59559  | 1505.85495 | 408.71581 | 920.02189 | 34.36726  |
| 1140.13 | 8152.36554  | 762.41806  | 1505.70899 | 72.8079    | 432.31518 | 79.61564  | 4552.69871  | 696.09639  | 1475.665   | 413.54168 | 863.497   | 91.17321  |
| 1142.1  | 8205.75772  | 728.28996  | 1531.87209 | 62.80338   | 404.29557 | 63.52579  | 4562.62149  | 556.35943  | 1416.52562 | 404.21343 | 808.86404 | 99.78952  |
| 1144.08 | 8402.23353  | 878.00864  | 1494.14315 | 27.07402   | 435.22979 | 102.41565 | 4443.13302  | 560.60051  | 1478.75019 | 284.75863 | 825.11278 | 113.7064  |
| 1146.05 | 8596.46045  | 827.66507  | 1443.84987 | 34.53183   | 405.77323 | 40.0633   | 4544.56386  | 641.04749  | 1476.65209 | 379.30869 | 731.56507 | 68.66061  |
| 1148.02 | 8917.10597  | 616.45554  | 1475.31994 | 40.68233   | 316.58124 | 69.43492  | 4741.57789  | 650.87363  | 1602.21139 | 389.18696 | 724.87548 | 56.50492  |
| 1149.99 | 9395.83757  | 815.71035  | 1578.88106 | 91.57797   | 283.64255 | 47.88856  | 5033.83901  | 669.40932  | 1621.74146 | 323.2492  | 609.69517 | 77.89576  |
| 1151.96 | 10242.32274 | 724.19242  | 1774.52757 | 91.77604   | 246.61251 | 24.33823  | 5446.34444  | 571.28112  | 1857.88903 | 328.83683 | 667.00505 | 172.41338 |
| 1153.93 | 11408.89562 | 844.88615  | 2029.58718 | 181.70141  | 228.47985 | 40.60884  | 5846.42473  | 612.84038  | 2123.30083 | 362.07572 | 582.77937 | 117.01498 |
| 1155.9  | 13200.89037 | 1001.33582 | 2341.72091 | 175.0345   | 160.56658 | 16.84903  | 6504.41045  | 605.33641  | 2441.62356 | 382.13922 | 531.32115 | 81.60968  |
| 1157.87 | 15605.64113 | 1299.13492 | 2889.58977 | 317.03285  | 172.52773 | 42.6157   | 7382.29881  | 614.8052   | 2856.17062 | 382.8888  | 516.92718 | 64.5274   |
| 1159.84 | 18789.8154  | 1443.66365 | 3501.52148 | 453.85215  | 116.34346 | 9.70119   | 8469.42037  | 678.32826  | 3448.58874 | 433.75322 | 483.55632 | 138.23194 |
| 1161.81 | 22972.74732 | 1617.59135 | 4465.51038 | 623.17532  | 79.65448  | 11.03641  | 10015.77235 | 676.07987  | 4315.52462 | 551.70065 | 540.49683 | 136.39473 |
| 1163.77 | 27574.77104 | 1873.65271 | 5639.21749 | 773.74224  | 109.75842 | 25.64321  | 11889.01865 | 998.72655  | 5102.29166 | 592.16494 | 595.03432 | 48.28034  |
| 1165.74 | 31849.88738 | 2108.69852 | 6606.97052 | 951.31409  | 94.28893  | 3.82528   | 13980.82315 | 1138.05274 | 5897.86991 | 547.09897 | 574.4504  | 66.47938  |
| 1167.7  | 34850.76383 | 2242.95716 | 7540.43049 | 1113.61141 | 99.20908  | 19.57697  | 15899.51641 | 1236.50354 | 6563.90609 | 561.14538 | 478.68749 | 63.35994  |
| 1169.66 | 36692.06786 | 2436.0787  | 8222.59175 | 1218.29942 | 80.81209  | 20.01339  | 18071.09565 | 1416.06811 | 7299.38026 | 659.6213  | 584.34937 | 39.95597  |
| 1171.63 | 36594.13363 | 2324.08846 | 8532.11533 | 1361.98948 | 107.05334 | 24.13176  | 19626.89142 | 1550.90862 | 7478.93914 | 551.4945  | 496.03737 | 129.35862 |
| 1173.59 | 35492.62863 | 2460.77346 | 8326.99559 | 1441.04693 | 78.22373  | 7.91868   | 20525.56763 | 1282.7886  | 7404.22944 | 536.06479 | 398.68137 | 45.61695  |
| 1175.55 | 33674.887   | 2349.50634 | 7959.56022 | 1385.0402  | 112.60724 | 29.0513   | 21172.12148 | 1297.77023 | 7323.89789 | 496.30155 | 497.87481 | 84.94253  |
| 1177.51 | 31457.90956 | 2145.63679 | 7479.47024 | 1393.59205 | 122.49106 | 49.13292  | 21036.21688 | 1313.41107 | 490.59922  | 425.54533 | 89.84356  |           |
| 1179.47 | 28911.69713 | 1802.18139 | 6678.38669 | 1361.69044 | 101.81969 | 22.05207  | 19367.18437 | 1176.13424 | 6431.28946 | 375.43998 | 535.28399 | 50.73511  |
| 1181.43 | 26289.25053 | 1660.48411 | 5847.63725 | 1204.63344 | 110.19863 | 38.96009  | 16754.02117 | 1015.22616 | 5658.97268 | 427.05684 | 385.68161 | 175.23614 |
| 1183.38 | 23378.9039  | 1307.2027  | 5074.88295 | 984.44164  | 57.22846  | 27.75449  | 13661.05786 | 726.88423  | 4971.62093 | 391.13964 | 284.32435 | 81.46227  |
| 1185.34 | 20779.65807 | 1117.29265 | 4377.11814 | 850.85411  | 89.16901  | 31.14025  | 11235.9583  | 685.30386  | 4312.21427 | 331.7146  | 291.79978 | 93.11206  |
| 1187.3  | 17956.84718 | 1045.21463 | 3694.33719 | 675.45819  | 75.62507  | 67.02498  | 8855.71974  | 440.35809  | 3698.06608 | 296.84256 | 316.36777 | 170.49651 |
| 1189.25 | 15598.13872 | 916.70529  | 2944.86779 | 547.73972  | 69.20032  | 39.93776  | 7143.33938  | 373.98229  | 2945.15641 | 245.82164 | 331.62682 | 78.99748  |
| 1191.21 | 13124.86684 | 739.61031  | 2256.7043  | 414.06909  | 54.83794  | 27.93407  | 5655.14779  | 196.32301  | 2183.46533 | 320.02101 | 284.17971 | 75.50948  |
| 1193.16 | 10688.36569 | 713.08454  | 1541.1744  | 256.93451  | 40.15463  | 41.58853  | 4362.47553  | 168.27709  | 1567.63955 | 180.80154 | 258.63289 | 30.1661   |
| 1195.11 | 8606.30276  | 570.91503  | 1013.93913 | 81.23904   | 52.11303  | 38.94054  | 3295.98647  | 204.04801  | 1104.99246 | 94.81904  | 199.93176 | 65.68477  |
| 1197.06 | 6988.67886  | 483.08125  | 701.6595   | 63.34803   | 59.36092  | 41.58138  | 2750.01118  | 172.50326  | 678.17078  | 89.66085  | 210.0284  | 83.98739  |
| 1199.02 | 5593.16147  | 372.04459  | 447.66322  | 25.33875   | 61.22644  | 6.8515    | 2333.88022  | 146.197    | 541.82122  | 101.56914 | 241.21739 | 86.27302  |
| 1200.97 | 4361.75142  | 352.86662  | 222.27677  | 68.85514   | 34.38185  | 21.65031  | 2002.92414  | 179.04676  | 307.91894  | 80.67537  | 229.80201 | 71.50671  |
| 1202.92 | 3778.78285  | 400.72562  | 213.47131  | 51.15508   | 75.84278  | 11.16364  | 1927.80683  | 144.56553  | 304.43276  | 37.16486  | 264.09297 | 28.50702  |
| 1204.86 | 3422.58992  | 396.28161  | 208.56262  | 27.34698   | 74.97899  | 34.64352  | 1859.85884  | 135.69768  | 210.33392  | 88.5359   | 280.07555 | 109.43589 |
| 1206.81 | 3104.50677  | 461.85586  | 155.21419  | 88.72758   | 62.49775  | 11.49417  | 1648.07741  | 200.21374  | 178.26294  | 70.8639   | 281.07481 | 81.14684  |
| 1208.76 | 3315.53422  | 521.68195  | 242.10587  | 79.5234    | 70.11085  | 12.56548  | 1578.79307  | 57.29469   | 113.53535  | 90.37953  | 177.08828 | 72.98173  |
| 1210.71 | 3685.00643  | 309.50607  | 316.62193  | 84.43507   | 82.53962  | 7.91558   | 1417.00307  | 233.10596  | 106.46722  | 49.09763  | 206.4526  | 110.15008 |
| 1212.65 | 4354.92421  | 210.56382  | 505.82594  | 165.86592  | 78.84521  | 15.67013  | 1251.03795  | 186.17316  | 98.0628    | 13.64797  | 292.18115 | 120.39271 |

|         |             |           |            |            |           |           |            |           |            |           |            |           |
|---------|-------------|-----------|------------|------------|-----------|-----------|------------|-----------|------------|-----------|------------|-----------|
| 1214.6  | 4894.95505  | 72.18684  | 673.10741  | 187.51467  | 99.42358  | 44.11931  | 1027.22827 | 20.12094  | 251.32988  | 32.27949  | 333.62953  | 107.60549 |
| 1216.54 | 5049.43309  | 47.55956  | 721.17951  | 162.87474  | 110.67365 | 24.61076  | 748.90455  | 169.20579 | 284.95597  | 62.43505  | 310.82528  | 24.95211  |
| 1218.48 | 4789.69249  | 31.76219  | 779.0685   | 212.35299  | 95.9908   | 15.34063  | 447.39692  | 11.8089   | 269.96667  | 36.72082  | 354.13285  | 37.11297  |
| 1220.43 | 4261.0674   | 118.39684 | 740.12557  | 140.001    | 112.09458 | 12.74473  | 369.03382  | 109.6647  | 300.05771  | 77.60704  | 384.92122  | 69.2569   |
| 1222.37 | 3615.55863  | 54.73233  | 777.36007  | 135.50026  | 129.03424 | 21.92745  | 223.14255  | 57.59099  | 324.26213  | 18.85554  | 382.89539  | 69.22316  |
| 1224.31 | 2713.167    | 90.45855  | 735.11095  | 50.22847   | 123.51592 | 13.32911  | 125.38431  | 90.30302  | 331.61579  | 106.09101 | 468.7618   | 161.71101 |
| 1226.25 | 1891.89333  | 155.45836 | 678.0492   | 47.07393   | 154.90043 | 11.31439  | 235.42367  | 173.91128 | 440.82294  | 55.82186  | 462.56173  | 112.56303 |
| 1228.19 | 1179.07178  | 148.09677 | 742.51231  | 63.70318   | 186.86955 | 11.7765   | 188.266    | 141.09398 | 350.25603  | 24.63109  | 632.33446  | 84.82057  |
| 1230.13 | 754.70315   | 106.88898 | 707.17025  | 221.86402  | 211.09635 | 10.22545  | 301.91954  | 267.53732 | 398.28442  | 83.34035  | 724.11744  | 125.23613 |
| 1232.06 | 369.1215    | 175.31131 | 676.35961  | 271.38045  | 256.58648 | 46.38544  | 323.73073  | 281.5275  | 284.94484  | 104.92245 | 769.27466  | 138.89199 |
| 1234    | 286.32438   | 110.86696 | 652.41576  | 315.95592  | 341.01213 | 29.00564  | 351.04611  | 328.41805 | 354.93937  | 67.82615  | 936.83275  | 121.34624 |
| 1235.94 | 278.31101   | 180.14094 | 719.6652   | 311.97467  | 378.71208 | 35.34126  | 526.5448   | 362.43755 | 301.64016  | 222.49608 | 1012.14924 | 203.28505 |
| 1237.87 | 325.7524    | 103.28949 | 673.08889  | 369.2896   | 432.02516 | 57.15344  | 591.23766  | 408.90415 | 322.7532   | 98.85295  | 1058.58148 | 172.86725 |
| 1239.81 | 532.99165   | 185.34963 | 689.99717  | 409.43829  | 461.95682 | 77.0183   | 632.7994   | 368.84842 | 439.32052  | 104.73111 | 1050.82013 | 148.04143 |
| 1241.74 | 722.37532   | 217.20492 | 713.35663  | 394.99126  | 428.17922 | 39.64843  | 827.90282  | 393.94352 | 450.71931  | 127.4447  | 1170.22252 | 189.34991 |
| 1243.67 | 919.58063   | 95.18309  | 581.78959  | 344.48567  | 492.03114 | 32.31833  | 957.21918  | 409.08368 | 447.6571   | 122.41289 | 1198.14596 | 61.65369  |
| 1245.6  | 911.94585   | 198.71985 | 576.57433  | 295.05941  | 480.51806 | 62.48325  | 842.08638  | 220.22103 | 460.17126  | 160.44687 | 1160.61441 | 204.8636  |
| 1247.54 | 892.80754   | 77.87691  | 535.98703  | 286.03868  | 490.31213 | 66.85701  | 923.17559  | 292.18573 | 434.96253  | 173.1743  | 1189.31853 | 178.10592 |
| 1249.47 | 875.49969   | 106.75465 | 564.63058  | 195.42434  | 476.75214 | 84.49106  | 993.49117  | 398.82571 | 509.06118  | 160.75766 | 1258.94897 | 180.59863 |
| 1251.4  | 905.35392   | 157.67888 | 430.10916  | 201.00863  | 448.17689 | 43.4834   | 1163.70415 | 372.76566 | 517.82807  | 205.58034 | 1165.5297  | 222.48713 |
| 1253.32 | 839.36555   | 112.89765 | 428.34913  | 173.67496  | 481.25853 | 38.21955  | 1228.81886 | 333.04758 | 543.28525  | 184.07802 | 1188.75136 | 166.27562 |
| 1255.25 | 514.19311   | 65.42839  | 372.61289  | 122.24784  | 452.33586 | 84.8495   | 1247.50629 | 319.77164 | 472.44956  | 188.83658 | 1228.30459 | 146.17035 |
| 1257.18 | 352.82515   | 44.73912  | 292.82632  | 61.47192   | 441.41436 | 22.71043  | 1263.77078 | 111.11028 | 415.66483  | 112.47675 | 1147.88005 | 120.14871 |
| 1259.11 | 250.24596   | 90.76658  | 254.23215  | 123.38324  | 407.83281 | 60.21805  | 1287.28333 | 330.58942 | 354.93737  | 135.51767 | 1085.16837 | 140.10043 |
| 1261.03 | 182.77546   | 145.9959  | 307.72833  | 71.01497   | 405.5967  | 53.32102  | 1413.04825 | 315.0345  | 327.2715   | 163.28227 | 1083.19353 | 182.67381 |
| 1262.96 | 194.74018   | 69.52447  | 211.54472  | 92.03968   | 388.37817 | 62.78373  | 1517.40323 | 308.9388  | 337.33866  | 128.12352 | 1004.31283 | 208.25071 |
| 1264.88 | 317.14274   | 99.53703  | 153.22218  | 65.34348   | 381.84934 | 7.04599   | 1596.35258 | 402.89644 | 247.14529  | 100.85188 | 933.88358  | 171.43251 |
| 1266.8  | 477.99468   | 190.2316  | 172.31672  | 38.43974   | 393.68236 | 32.80068  | 1721.90064 | 453.04772 | 208.03237  | 98.94471  | 944.92974  | 160.07101 |
| 1268.73 | 773.978     | 81.57564  | 163.08957  | 128.28807  | 436.54937 | 73.65125  | 1928.05173 | 501.58118 | 293.01253  | 50.21956  | 976.47518  | 143.16291 |
| 1270.65 | 1071.10527  | 47.24498  | 180.1662   | 76.95733   | 461.78917 | 28.05562  | 2025.14353 | 495.12636 | 341.43835  | 64.77216  | 1027.54375 | 147.36109 |
| 1272.57 | 1627.05013  | 150.06502 | 220.8733   | 229.06162  | 496.74056 | 43.90992  | 2329.84703 | 508.20258 | 344.9988   | 156.46648 | 1044.49257 | 154.40636 |
| 1274.49 | 2147.8194   | 341.47077 | 301.23201  | 234.78918  | 509.40902 | 39.26056  | 2711.16655 | 678.79511 | 517.38393  | 229.99099 | 1265.01211 | 249.15935 |
| 1276.41 | 2666.41992  | 406.13477 | 427.62498  | 226.88171  | 604.13334 | 88.11454  | 2983.43976 | 541.2637  | 571.95132  | 139.06973 | 1266.12614 | 174.03563 |
| 1278.33 | 3390.85853  | 356.84672 | 546.12117  | 258.08721  | 668.25234 | 89.46365  | 3419.671   | 544.63308 | 761.05366  | 230.51095 | 1329.85846 | 112.70241 |
| 1280.24 | 4394.47539  | 540.90638 | 728.80073  | 305.9625   | 674.43815 | 84.03555  | 3918.19793 | 624.02741 | 857.70318  | 302.26988 | 1295.23285 | 98.60537  |
| 1282.16 | 5438.94402  | 622.24624 | 1024.07721 | 280.06549  | 717.69624 | 76.13272  | 4572.69153 | 507.32729 | 1013.24277 | 255.02001 | 1356.2731  | 175.12263 |
| 1284.08 | 6774.60458  | 512.26856 | 1259.34646 | 375.87013  | 705.03208 | 128.13505 | 5289.48948 | 674.35332 | 1169.68068 | 203.46675 | 1314.00299 | 198.16381 |
| 1285.99 | 8047.4639   | 661.00574 | 1500.67078 | 490.55846  | 690.45115 | 89.93394  | 6039.92945 | 697.38928 | 1373.02516 | 261.78538 | 1351.44631 | 148.36383 |
| 1287.91 | 9500.52882  | 733.31054 | 1796.77912 | 472.72718  | 655.95891 | 91.86852  | 6584.01575 | 721.30112 | 1473.95111 | 293.47393 | 1287.62684 | 222.97374 |
| 1289.82 | 10756.80617 | 787.36597 | 1979.40045 | 463.23057  | 645.56083 | 79.43032  | 7165.75272 | 747.71082 | 1619.13345 | 267.32659 | 1323.23504 | 146.65075 |
| 1291.73 | 11518.30281 | 872.05625 | 2249.26371 | 548.49502  | 662.59572 | 86.00379  | 7571.47803 | 598.7288  | 1753.24708 | 284.35693 | 1294.62803 | 144.43822 |
| 1293.65 | 11871.69221 | 879.46026 | 2367.76454 | 486.01362  | 606.73572 | 104.46725 | 7977.196   | 751.48956 | 1788.63357 | 207.3202  | 1287.49626 | 192.87142 |
| 1295.56 | 11495.31456 | 646.62571 | 2361.96522 | 491.4781   | 600.65297 | 47.64619  | 7841.57763 | 838.36634 | 1774.63449 | 232.25841 | 1218.19684 | 156.60171 |
| 1297.47 | 10650.17669 | 651.97655 | 2159.59471 | 537.58221  | 612.68626 | 101.29166 | 7422.62726 | 860.88574 | 1539.25809 | 270.25578 | 1236.42024 | 168.19945 |
| 1299.38 | 9402.28544  | 713.942   | 1986.38196 | 534.63323  | 577.17441 | 69.60969  | 6641.01587 | 798.86384 | 1350.51262 | 229.96541 | 1180.52357 | 89.13061  |
| 1301.29 | 8048.31431  | 560.29969 | 1676.05594 | 469.63133  | 537.45621 | 80.16488  | 5870.41447 | 707.91784 | 1217.07296 | 172.12895 | 1085.53061 | 99.16483  |
| 1303.2  | 6324.60346  | 387.51403 | 1372.3456  | 475.75917  | 520.87047 | 60.95034  | 4909.16071 | 693.77489 | 977.94737  | 205.98778 | 1062.79849 | 106.59592 |
| 1305.1  | 4869.49307  | 282.79488 | 1074.9799  | 436.35598  | 444.756   | 57.08101  | 4194.9256  | 684.70407 | 689.47742  | 92.06395  | 1016.68431 | 175.43227 |
| 1307.01 | 3687.98998  | 199.39707 | 847.35444  | 410.6223   | 435.11827 | 65.07485  | 3595.71347 | 598.13971 | 607.00461  | 150.55049 | 960.5452   | 127.891   |
| 1308.92 | 2608.10102  | 197.74638 | 633.86021  | 372.62153  | 334.29607 | 38.02262  | 3029.19531 | 466.35133 | 437.1993   | 34.47361  | 787.07157  | 182.74762 |
| 1310.82 | 1902.83302  | 83.1084   | 567.20524  | 323.66524  | 274.96155 | 41.07123  | 2806.37545 | 430.79578 | 300.72731  | 50.59314  | 762.62049  | 143.45432 |
| 1312.73 | 1564.85949  | 158.38423 | 456.437    | 248.78038  | 222.12018 | 49.51821  | 2617.9249  | 500.97996 | 257.58488  | 18.52237  | 690.54704  | 172.79882 |
| 1314.63 | 1368.52059  | 58.84889  | 507.2771   | 292.80449  | 208.44409 | 35.70507  | 2579.51464 | 445.90475 | 344.77101  | 87.24859  | 672.87094  | 149.79632 |
| 1316.53 | 1329.48984  | 130.73147 | 545.45733  | 315.86505  | 164.60442 | 16.74306  | 2525.14901 | 360.87834 | 330.28923  | 96.98471  | 610.27351  | 106.47718 |
| 1318.44 | 1653.77406  | 41.47172  | 578.38673  | 377.65248  | 119.93875 | 14.4952   | 2831.16567 | 365.16343 | 507.14414  | 15.16179  | 582.09713  | 83.61173  |
| 1320.34 | 2063.04676  | 221.85817 | 665.15018  | 367.81431  | 86.7768   | 31.88715  | 3066.90228 | 421.26871 | 462.342    | 24.42336  | 544.67859  | 71.71207  |
| 1322.24 | 2608.98141  | 174.58083 | 786.51339  | 417.49515  | 111.10207 | 18.11108  | 3561.02984 | 460.22755 | 642.55182  | 48.05984  | 503.01543  | 62.80636  |
| 1324.14 | 3543.9182   | 141.74806 | 792.57659  | 540.05422  | 89.56458  | 10.39288  | 4123.21936 | 490.90395 | 840.77211  | 75.06703  | 122.67306  |           |
| 1326.04 | 4459.86395  | 259.14668 | 946.76604  | 538.22945  | 91.13807  | 6.93569   | 4757.47515 | 629.83947 | 940.66289  | 102.34265 | 491.92181  | 106.70431 |
| 1327.93 | 5607.82549  | 401.87698 | 1117.51858 | 634.10331  | 52.79511  | 30.15575  | 5685.46821 | 511.95573 | 1097.88185 | 49.66801  | 510.46569  | 138.76428 |
| 1329.83 | 6672.47631  | 396.54194 | 1332.26084 | 821.15869  | 77.17295  | 8.14529   | 6669.53622 | 685.0327  | 1434.75323 | 41.0966   | 411.04742  | 137.60715 |
| 1331.73 | 7703.82325  | 466.92306 | 1516.06878 | 909.86056  | 49.92228  | 32.23183  | 7729.35016 | 677.00328 | 1654.60126 | 18.28712  | 455.64559  | 99.05316  |
| 1333.63 | 8210.87313  | 608.01387 | 1686.00104 | 999.23659  | 34.03075  | 29.91608  | 8641.2477  | 813.53227 | 1859.41683 | 27.96096  | 466.23917  | 172.61553 |
| 1335.52 | 8036.29944  | 486.06654 | 1661.76389 | 1040.22413 | 92.83394  | 8.83118   | 9445.23317 | 925.4968  | 1962.52417 | 98.96718  | 472.61373  |           |
| 1337.41 | 7912.44236  | 609.20978 | 1628.72143 | 1095.21812 | 98.68834  | 37.61752  | 10294.3109 | 965.24093 | 2149.58084 | 48.18571  | 513.65368  | 79.6204   |

|         |             |            |            |            |           |           |             |            |            |           |            |           |
|---------|-------------|------------|------------|------------|-----------|-----------|-------------|------------|------------|-----------|------------|-----------|
| 1339.31 | 7650.97538  | 452.72375  | 1532.55126 | 1150.47943 | 125.28116 | 34.16206  | 11068.15189 | 1002.23063 | 2240.2444  | 43.44004  | 491.75623  | 96.88607  |
| 1341.2  | 7700.57199  | 572.92987  | 1573.91537 | 1125.26196 | 107.62814 | 36.42686  | 11904.0938  | 1115.42919 | 2379.83909 | 41.61371  | 508.41547  | 152.70934 |
| 1343.09 | 7963.23903  | 561.79146  | 1605.81427 | 1148.85681 | 112.73771 | 25.15865  | 12539.80762 | 1040.1123  | 2566.3558  | 27.51146  | 576.26394  | 102.27323 |
| 1344.98 | 8488.64998  | 579.36126  | 1704.91074 | 1289.03519 | 116.27991 | 32.61217  | 12810.63103 | 1134.04423 | 2767.11875 | 16.81592  | 544.26407  | 212.03289 |
| 1346.87 | 9131.14502  | 660.66776  | 1852.52823 | 1320.02051 | 124.58322 | 47.94201  | 12876.56835 | 986.8785   | 2858.78551 | 98.57651  | 469.70632  | 129.52751 |
| 1348.76 | 10085.39764 | 730.0167   | 1965.99309 | 1366.19443 | 95.96633  | 23.02956  | 12386.95724 | 938.94818  | 2978.01363 | 68.59814  | 482.54421  | 42.4917   |
| 1350.65 | 11335.41466 | 769.0997   | 2190.61928 | 1375.10181 | 114.74304 | 4.75722   | 11983.13537 | 814.24841  | 2897.12736 | 94.22092  | 469.39583  | 154.15845 |
| 1352.54 | 13077.86959 | 868.24807  | 2369.70169 | 1443.20134 | 91.55676  | 36.73215  | 11393.10707 | 874.56039  | 2940.78424 | 59.36136  | 378.54331  | 80.85353  |
| 1354.43 | 15099.76925 | 975.43325  | 2678.86689 | 1521.29549 | 124.37403 | 36.60482  | 10830.54333 | 763.60237  | 2994.97518 | 114.49273 | 388.93344  | 87.68011  |
| 1356.32 | 17330.12047 | 996.01544  | 3068.408   | 1589.88599 | 63.49263  | 21.11305  | 10549.11516 | 709.54799  | 2991.02439 | 41.46153  | 299.84799  | 59.21156  |
| 1358.2  | 19449.93008 | 1072.97743 | 3376.95147 | 1626.11401 | 44.53386  | 38.94665  | 10511.49355 | 742.63834  | 3157.25612 | 158.15489 | 317.23669  | 32.88332  |
| 1360.09 | 21181.87158 | 1252.77725 | 3640.45707 | 1652.9346  | 112.12811 | 55.37618  | 10440.68282 | 622.8065   | 3164.32792 | 100.49189 | 365.72088  | 78.66033  |
| 1361.97 | 22117.61847 | 1225.24561 | 3844.88459 | 1681.64779 | 78.58917  | 39.3707   | 10331.02065 | 640.6813   | 3099.56402 | 117.98258 | 278.59284  | 73.14272  |
| 1363.85 | 22035.84423 | 1211.63955 | 3728.1938  | 1520.13429 | 49.22401  | 34.07021  | 10351.17803 | 590.86835  | 2955.95532 | 126.47009 | 285.4804   | 50.1279   |
| 1365.74 | 21143.88904 | 1172.13401 | 3673.01115 | 1500.19335 | 52.67618  | 20.36611  | 10343.15929 | 664.34863  | 2709.82604 | 71.02454  | 248.68392  | 86.74706  |
| 1367.62 | 19668.42638 | 1044.34852 | 3388.29642 | 1374.83639 | 79.27072  | 34.44209  | 10143.96876 | 685.43157  | 2526.50041 | 79.06931  | 282.17601  | 97.08862  |
| 1369.5  | 18284.79643 | 951.76819  | 3230.67606 | 1243.86711 | 93.01281  | 31.09104  | 9852.94411  | 662.24     | 2411.96933 | 98.29944  | 302.26969  | 80.42507  |
| 1371.38 | 17237.33934 | 1015.13133 | 3198.77651 | 1117.3712  | 79.57712  | 11.43615  | 9560.75632  | 683.9759   | 2268.89036 | 84.59784  | 322.61706  | 85.67333  |
| 1373.26 | 16606.72861 | 1118.1701  | 3248.22422 | 937.57343  | 93.30496  | 23.95419  | 9182.40974  | 594.82799  | 2209.58773 | 52.43267  | 308.87508  | 108.21458 |
| 1375.14 | 16649.3044  | 1130.23152 | 3579.64564 | 848.42253  | 87.54036  | 26.89079  | 8850.90869  | 474.61684  | 2322.71899 | 83.16516  | 314.03807  | 30.10423  |
| 1377.02 | 17238.40688 | 1316.23085 | 3909.66721 | 858.87486  | 77.62457  | 5.36511   | 8728.59084  | 473.31386  | 2505.27505 | 127.35537 | 341.7716   | 76.80094  |
| 1378.9  | 18163.37621 | 1378.31065 | 4524.2487  | 692.5159   | 55.23177  | 48.63277  | 8550.46051  | 469.56947  | 2804.2468  | 127.66016 | 310.07898  | 82.42017  |
| 1380.77 | 19469.55255 | 1387.61236 | 5123.01658 | 605.89531  | 112.03957 | 28.08312  | 8662.52203  | 391.86217  | 3078.29179 | 224.44647 | 278.30006  | 109.87881 |
| 1382.65 | 20660.60939 | 1392.68104 | 5674.26395 | 588.45323  | 84.07141  | 29.58866  | 8643.77974  | 259.9311   | 3519.73427 | 131.26966 | 293.44591  | 102.55827 |
| 1384.52 | 21777.8869  | 1290.54269 | 6117.95059 | 656.50915  | 112.0079  | 11.36442  | 8398.23797  | 253.45667  | 3846.23179 | 203.8975  | 396.53347  | 65.5337   |
| 1386.4  | 22226.72525 | 1176.7346  | 6319.36961 | 478.78695  | 97.53057  | 39.68039  | 8068.23438  | 262.95687  | 4027.77524 | 305.73277 | 314.2516   | 124.78472 |
| 1388.27 | 21622.13126 | 1135.27447 | 6133.48079 | 391.103    | 82.9779   | 59.43866  | 7621.10663  | 330.70394  | 3899.02219 | 282.51446 | 342.62343  | 69.85527  |
| 1390.14 | 19831.44509 | 872.41365  | 5575.91059 | 334.67361  | 96.6864   | 30.83273  | 6931.85905  | 404.09461  | 3584.6302  | 302.39945 | 369.67644  | 175.3485  |
| 1392.02 | 17215.00691 | 740.68514  | 4787.95211 | 202.58536  | 94.99409  | 34.63299  | 6067.49598  | 446.50245  | 3022.59016 | 297.06427 | 406.10801  | 98.19355  |
| 1393.89 | 13892.82354 | 623.88058  | 3874.89846 | 139.38026  | 71.56822  | 18.15568  | 4972.68841  | 453.26035  | 2344.89297 | 328.62929 | 452.95088  | 82.71687  |
| 1395.76 | 10769.90182 | 576.23542  | 2987.37609 | 104.49143  | 104.073   | 0.61483   | 3939.10734  | 333.12079  | 1679.52952 | 213.51351 | 427.57169  | 61.55078  |
| 1397.63 | 7886.24858  | 425.75024  | 2324.34479 | 45.49169   | 88.52484  | 29.56222  | 2965.42376  | 283.29198  | 1279.49071 | 128.2692  | 418.3357   | 77.42884  |
| 1399.5  | 5939.20397  | 421.71729  | 1762.431   | 57.86857   | 101.26647 | 28.03016  | 2247.30867  | 282.31712  | 927.76744  | 89.58473  | 432.60782  | 64.83221  |
| 1401.37 | 4509.10816  | 301.21105  | 1429.26116 | 12.04141   | 84.97316  | 25.70796  | 1696.76641  | 207.11929  | 703.01726  | 106.68647 | 417.753    | 151.1474  |
| 1403.23 | 3180.96798  | 241.31509  | 1094.12838 | 16.78155   | 103.31474 | 21.38388  | 1132.46796  | 197.58092  | 547.564    | 129.06311 | 442.80229  | 76.2432   |
| 1405.1  | 2431.45693  | 116.78139  | 837.65912  | 51.50868   | 90.62827  | 26.76246  | 817.08433   | 185.26283  | 413.72758  | 71.78078  | 467.12015  | 55.25377  |
| 1406.97 | 1724.2485   | 218.74294  | 661.81316  | 144.8292   | 67.91091  | 22.83088  | 588.61985   | 213.51377  | 356.15496  | 69.6131   | 455.07004  | 88.30636  |
| 1408.83 | 1121.68286  | 84.51648   | 504.55025  | 104.73271  | 80.15809  | 37.1649   | 425.41184   | 131.95276  | 376.49146  | 119.99467 | 479.01346  | 49.35771  |
| 1410.7  | 599.43349   | 114.82612  | 414.48542  | 93.31946   | 77.03927  | 41.59755  | 385.79348   | 109.25403  | 293.38286  | 38.31597  | 432.64376  | 101.04609 |
| 1412.56 | 355.50721   | 80.18979   | 272.54757  | 84.89645   | 96.22729  | 18.99989  | 246.42847   | 123.05398  | 281.47451  | 56.17204  | 468.98518  | 140.69969 |
| 1414.42 | 277.23702   | 38.66999   | 207.32209  | 136.64414  | 69.06545  | 19.5912   | 259.97729   | 106.31863  | 318.74815  | 91.99291  | 422.0614   | 86.21207  |
| 1416.28 | 214.29147   | 122.47116  | 154.06494  | 78.38238   | 55.55976  | 7.26649   | 214.10287   | 146.33765  | 164.52243  | 53.69457  | 493.56072  | 112.61272 |
| 1418.15 | 467.34459   | 97.38241   | 189.06041  | 107.47062  | 86.38984  | 56.97796  | 271.13661   | 140.2193   | 198.45129  | 105.35503 | 415.838    | 104.11956 |
| 1420.01 | 728.07852   | 199.73762  | 207.63097  | 27.74082   | 85.24761  | 14.83606  | 393.41368   | 145.92857  | 191.53045  | 85.06951  | 353.24516  | 117.02902 |
| 1421.87 | 1354.84066  | 122.28774  | 235.79004  | 117.24965  | 73.82693  | 32.3974   | 644.93729   | 206.72864  | 316.42931  | 55.55487  | 437.46757  | 80.10519  |
| 1423.73 | 1846.64173  | 179.89959  | 276.56774  | 151.08876  | 83.82209  | 33.27508  | 849.37739   | 232.41325  | 333.82457  | 108.74303 | 446.19338  | 88.32437  |
| 1425.58 | 2207.49248  | 295.8337   | 316.33403  | 73.32068   | 110.93242 | 18.53495  | 1269.4003   | 233.10159  | 320.39503  | 47.1649   | 445.77661  | 99.46604  |
| 1427.44 | 2671.40361  | 259.6072   | 426.47165  | 66.3815    | 123.19158 | 15.34216  | 1655.33888  | 263.46062  | 389.82083  | 125.38084 | 483.57022  | 62.09921  |
| 1429.3  | 3220.71921  | 404.31012  | 461.68673  | 99.96288   | 91.62355  | 13.12925  | 1981.52602  | 249.63959  | 426.45073  | 67.08762  | 481.59269  | 112.10378 |
| 1431.15 | 3672.11665  | 435.5973   | 568.66545  | 102.95198  | 137.57681 | 30.39472  | 2358.96125  | 355.64962  | 454.29919  | 38.61497  | 477.85987  | 107.32833 |
| 1433.01 | 4134.60667  | 510.63765  | 689.41447  | 51.12814   | 160.39788 | 32.79106  | 2606.64411  | 445.02737  | 535.71151  | 154.01972 | 549.38505  | 40.27495  |
| 1434.86 | 4664.19999  | 561.22683  | 744.25538  | 52.64132   | 212.09289 | 54.27807  | 2993.90748  | 460.22897  | 696.69611  | 146.51008 | 520.51241  | 106.45412 |
| 1436.72 | 5186.57402  | 534.90858  | 936.84246  | 26.85329   | 303.99374 | 61.35351  | 3331.41756  | 563.15467  | 1002.92204 | 125.21075 | 687.91443  | 166.80795 |
| 1438.57 | 5643.73948  | 845.32299  | 1061.83003 | 41.59997   | 321.09574 | 37.83948  | 3727.50723  | 692.03331  | 1165.72088 | 265.95743 | 786.92616  | 112.17886 |
| 1440.42 | 5972.37375  | 753.61841  | 1169.53903 | 149.55443  | 441.39422 | 98.44515  | 4087.50936  | 730.99821  | 1327.75748 | 176.80339 | 928.21135  | 101.73028 |
| 1442.28 | 6038.82092  | 716.55051  | 1260.29041 | 98.62571   | 490.21784 | 82.5577   | 4338.42349  | 913.45385  | 1433.69671 | 291.71784 | 1093.09894 | 159.42835 |
| 1444.13 | 6247.75836  | 894.26094  | 1333.0718  | 139.38432  | 588.89524 | 114.68897 | 4286.5825   | 884.96037  | 1455.20344 | 300.7037  | 1192.58441 | 109.03557 |
| 1445.98 | 6300.53014  | 847.80095  | 1324.87081 | 207.88316  | 683.75508 | 134.88449 | 4211.98593  | 954.90134  | 1460.6092  | 392.02436 | 1338.66327 | 139.41385 |
| 1447.83 | 6363.48033  | 911.11564  | 1363.34175 | 268.76209  | 734.12601 | 118.06652 | 4060.29998  | 987.2145   | 1394.57886 | 422.72649 | 1382.33102 | 159.9077  |
| 1449.67 | 6370.61964  | 924.89501  | 1355.47222 | 292.96375  | 729.67003 | 141.93962 | 3846.19086  | 1029.54802 | 1401.11062 | 385.771   | 1471.24982 | 145.54804 |
| 1451.52 | 6484.95881  | 888.38758  | 1360.91652 | 352.56434  | 740.04913 | 149.1097  | 3776.65811  | 1008.21484 | 1296.20267 | 399.11546 | 1474.7485  | 195.8161  |
| 1453.37 | 6624.17523  | 885.30342  | 1382.9956  | 416.6098   | 766.25862 | 141.57157 | 3485.70128  | 1044.2861  | 1262.51989 | 415.71231 | 1521.48923 | 119.46569 |
| 1455.22 | 6741.61297  | 840.61734  | 1327.69709 | 405.70052  | 796.62716 | 129.54434 | 3411.98657  | 1027.85422 | 1220.39381 | 406.1915  | 1541.46751 | 219.84422 |
| 1457.06 | 6966.28275  | 841.01199  | 1332.0086  | 396.43404  | 780.15007 | 129.16635 | 3317.51352  | 1048.96253 | 1147.48929 | 440.59046 | 1509.01216 | 195.88667 |
| 1458.91 | 7290.52863  | 883.32347  | 1301.25109 | 378.84057  | 758.48933 | 141.05481 | 3334.615    | 1087.12072 | 1167.4712  | 354.90431 | 1536.11869 | 186.1312  |

|         |             |            |            |           |           |           |             |            |            |           |            |           |
|---------|-------------|------------|------------|-----------|-----------|-----------|-------------|------------|------------|-----------|------------|-----------|
| 1460.75 | 7671.02801  | 1011.44356 | 1308.07884 | 370.31248 | 809.30695 | 104.95131 | 3535.29056  | 1107.38163 | 1126.67104 | 475.93591 | 1585.44927 | 216.37788 |
| 1462.59 | 8041.12495  | 1024.52117 | 1345.14616 | 329.38449 | 801.59823 | 113.11819 | 3698.2064   | 1073.73436 | 1192.08697 | 463.90778 | 1597.66605 | 262.72446 |
| 1464.44 | 8334.1635   | 1033.62841 | 1435.77398 | 249.3339  | 834.69184 | 123.58895 | 4056.02873  | 1187.40893 | 1290.38362 | 400.15422 | 1675.09787 | 153.65901 |
| 1466.28 | 8484.82108  | 883.88687  | 1501.28327 | 230.40196 | 844.91643 | 138.08864 | 4282.09043  | 1240.62836 | 1335.22558 | 508.7825  | 1642.07357 | 204.33919 |
| 1468.12 | 8771.44172  | 998.52609  | 1578.99498 | 178.23946 | 882.93398 | 144.47538 | 4668.05769  | 1226.25808 | 1322.27746 | 530.48665 | 1762.92196 | 231.51814 |
| 1469.96 | 8851.70284  | 1051.69886 | 1608.23007 | 134.55908 | 927.07315 | 143.50777 | 5045.59673  | 1230.01737 | 1498.53718 | 524.14005 | 1851.30523 | 228.01441 |
| 1471.8  | 8738.28183  | 1055.90824 | 1691.30948 | 70.91634  | 969.32927 | 154.84029 | 5252.04043  | 1314.77201 | 1626.33601 | 547.4214  | 1942.21886 | 191.55484 |
| 1473.64 | 8314.1894   | 1018.72091 | 1712.55418 | 99.32997  | 964.69765 | 152.45454 | 5215.38832  | 1207.86896 | 1678.33855 | 566.96171 | 1826.99168 | 258.60943 |
| 1475.48 | 7620.76963  | 824.6366   | 1633.95179 | 44.67161  | 879.84029 | 182.70876 | 4964.63994  | 1086.30699 | 1562.20939 | 560.60222 | 1708.95254 | 175.17422 |
| 1477.31 | 6708.69991  | 746.87338  | 1410.48993 | 62.01742  | 736.08583 | 130.45139 | 4417.79484  | 982.8916   | 1379.27979 | 430.92867 | 1454.43026 | 193.43914 |
| 1479.15 | 5630.32431  | 803.32887  | 1216.48955 | 73.29547  | 616.09627 | 98.60644  | 4014.85255  | 813.00047  | 1280.54769 | 372.32507 | 1219.42034 | 123.2876  |
| 1480.99 | 4664.98687  | 605.44727  | 1054.93827 | 20.31535  | 494.86692 | 87.4947   | 3530.14595  | 671.0925   | 1184.01101 | 308.24238 | 1050.91828 | 100.03138 |
| 1482.82 | 3472.365    | 454.7207   | 870.82372  | 58.41849  | 412.39312 | 68.34377  | 2944.00791  | 561.884    | 1022.33435 | 264.18396 | 987.58624  | 69.01281  |
| 1484.66 | 2597.46942  | 322.25135  | 690.13352  | 51.27929  | 315.67017 | 64.71534  | 2476.77131  | 440.06991  | 813.51563  | 227.2309  | 745.41972  | 54.18235  |
| 1486.49 | 1621.31086  | 190.77161  | 552.85527  | 15.25173  | 237.36007 | 86.96581  | 1917.10236  | 279.84352  | 580.21945  | 107.59358 | 678.08083  | 75.48633  |
| 1488.32 | 1077.56673  | 259.10143  | 403.64312  | 78.41165  | 179.12481 | 54.11332  | 1468.00058  | 289.80141  | 557.44258  | 82.91153  | 556.22853  | 113.72056 |
| 1490.16 | 663.58107   | 63.86417   | 299.47513  | 9.77191   | 156.95473 | 36.94089  | 1017.46554  | 296.71052  | 398.84152  | 120.5481  | 578.84943  | 131.37902 |
| 1491.99 | 524.03124   | 90.75661   | 250.30116  | 26.25955  | 126.50293 | 20.26402  | 842.16342   | 201.51118  | 357.06567  | 121.74389 | 547.59144  | 158.77417 |
| 1493.82 | 344.25381   | 107.8747   | 208.72026  | 27.90806  | 104.41678 | 13.82545  | 663.42711   | 279.04272  | 358.76311  | 120.7425  | 461.76309  | 93.5153   |
| 1495.65 | 427.91393   | 112.0174   | 187.99779  | 68.16996  | 82.66276  | 43.1183   | 435.256     | 114.91195  | 291.58232  | 81.77389  | 479.66813  | 90.04943  |
| 1497.48 | 599.01281   | 85.92381   | 173.08208  | 33.63345  | 113.86683 | 22.97917  | 308.31544   | 172.46612  | 197.17208  | 86.375    | 415.94189  | 87.4014   |
| 1499.3  | 780.88414   | 65.25601   | 231.94603  | 42.98826  | 38.65651  | 15.25537  | 260.26979   | 112.21062  | 212.851    | 47.59439  | 459.55052  | 27.38757  |
| 1501.13 | 857.52343   | 88.64246   | 219.92648  | 71.35307  | 81.64995  | 24.04335  | 218.78327   | 60.70917   | 229.27806  | 12.37114  | 420.79364  | 121.97613 |
| 1502.96 | 766.58912   | 80.86137   | 232.70061  | 88.54601  | 63.48438  | 37.36087  | 272.85523   | 116.10679  | 178.78535  | 36.6921   | 345.96922  | 64.47135  |
| 1504.79 | 698.40403   | 55.09041   | 221.95743  | 101.83181 | 69.46556  | 15.06071  | 321.82194   | 24.73335   | 210.37732  | 52.46559  | 402.37515  | 67.20999  |
| 1506.61 | 475.28597   | 37.9419    | 190.39722  | 47.76163  | 78.57502  | 11.21047  | 469.02096   | 65.32422   | 222.39961  | 65.25647  | 387.31237  | 70.10317  |
| 1508.44 | 382.87997   | 15.74591   | 205.7348   | 104.31326 | 97.46772  | 18.74217  | 774.79008   | 14.94912   | 317.5377   | 30.74418  | 380.41586  | 138.41036 |
| 1510.26 | 206.49498   | 40.88074   | 220.37526  | 78.44049  | 79.46837  | 44.58057  | 957.46473   | 125.62623  | 304.81642  | 76.82526  | 431.98859  | 108.75453 |
| 1512.08 | 376.10767   | 90.65808   | 243.40857  | 145.58228 | 42.56392  | 19.00336  | 1141.71053  | 134.85695  | 382.59598  | 92.14148  | 331.00181  | 73.90672  |
| 1513.91 | 482.70317   | 31.59914   | 329.60506  | 108.97036 | 64.07753  | 36.30221  | 1398.85932  | 70.04259   | 478.23915  | 72.13168  | 356.09291  | 82.12117  |
| 1515.73 | 774.26797   | 18.51064   | 423.42365  | 125.21398 | 105.68325 | 28.93651  | 1677.24285  | 139.21571  | 635.77472  | 66.03855  | 361.90294  | 53.32352  |
| 1517.55 | 985.78575   | 70.06563   | 563.6501   | 146.23283 | 105.064   | 12.31609  | 1915.85952  | 137.46107  | 784.56025  | 79.72539  | 375.40892  | 78.32911  |
| 1519.37 | 1116.9021   | 23.18338   | 649.39919  | 125.51077 | 78.89525  | 41.87993  | 2254.70775  | 105.93487  | 859.6136   | 76.03447  | 397.92236  | 59.96442  |
| 1521.19 | 1043.9287   | 31.11342   | 723.76571  | 238.53384 | 54.17929  | 24.53561  | 2308.78593  | 53.64872   | 974.95115  | 114.71646 | 359.42821  | 92.55153  |
| 1523.01 | 1149.51041  | 37.86487   | 784.82975  | 180.55352 | 79.25476  | 5.13966   | 2341.75915  | 92.60106   | 1056.2555  | 79.63602  | 379.90485  | 36.81746  |
| 1524.83 | 1436.29154  | 60.23697   | 955.98494  | 249.53776 | 78.13983  | 11.72072  | 2729.62582  | 238.82361  | 1204.87589 | 95.50336  | 347.00481  | 104.38882 |
| 1526.64 | 1725.24964  | 166.67548  | 1151.28748 | 283.34642 | 97.8555   | 24.38412  | 3023.71766  | 228.8426   | 1390.16153 | 88.21965  | 370.7143   | 44.21141  |
| 1528.46 | 2235.36225  | 115.67815  | 1387.79312 | 292.46573 | 76.75934  | 6.2776    | 3716.69976  | 113.8985   | 1686.79499 | 113.27775 | 360.35592  | 104.44505 |
| 1530.28 | 2572.60691  | 54.16949   | 1676.55763 | 305.86186 | 96.20605  | 33.5271   | 4157.23719  | 313.49806  | 2051.1255  | 71.22305  | 385.25425  | 91.83459  |
| 1532.09 | 2842.62782  | 101.75187  | 1863.30344 | 334.57539 | 105.55415 | 37.11579  | 4383.99502  | 340.55257  | 2366.16893 | 33.46676  | 347.40302  | 61.0918   |
| 1533.91 | 3063.40254  | 131.74302  | 2061.41964 | 432.11046 | 86.16227  | 14.9108   | 4556.30499  | 233.28402  | 2584.27452 | 123.2859  | 330.79735  | 85.33178  |
| 1535.72 | 3214.24193  | 76.07652   | 2102.62865 | 433.88607 | 107.71512 | 4.11249   | 4532.83219  | 126.06949  | 2639.79148 | 140.1332  | 392.10201  | 64.50027  |
| 1537.53 | 3245.12354  | 98.88407   | 2117.31958 | 438.19061 | 95.56418  | 12.34827  | 4204.575    | 81.01333   | 2682.73571 | 178.95485 | 319.65215  | 69.01514  |
| 1539.34 | 3205.69158  | 162.09991  | 1997.21484 | 419.98304 | 90.71951  | 45.19589  | 3897.19852  | 47.58381   | 2446.45644 | 125.76161 | 342.4507   | 88.13831  |
| 1541.16 | 2966.25692  | 121.97227  | 1802.70353 | 410.76696 | 82.85412  | 36.95445  | 3339.03447  | 58.1214    | 2074.30288 | 74.45608  | 345.83805  | 42.37321  |
| 1542.97 | 2756.7971   | 96.81405   | 1592.17475 | 367.14359 | 81.30621  | 7.50407   | 2852.08127  | 40.6771    | 1734.62425 | 102.75725 | 406.82448  | 72.05109  |
| 1544.78 | 2488.95633  | 126.76074  | 1335.01758 | 327.98591 | 108.4154  | 12.61433  | 2298.33733  | 30.28623   | 1363.43645 | 115.55111 | 376.75665  | 92.21083  |
| 1546.59 | 2205.04549  | 93.51426   | 1126.28779 | 279.28169 | 88.85666  | 38.44306  | 1980.46771  | 122.0399   | 1096.42204 | 96.49673  | 364.31508  | 82.69889  |
| 1548.4  | 1968.70878  | 26.49884   | 935.37448  | 295.77731 | 76.63022  | 15.04472  | 1647.13749  | 12.04378   | 823.93024  | 65.06281  | 378.8487   | 81.19497  |
| 1550.2  | 1569.92375  | 38.37139   | 764.66672  | 278.11538 | 114.73536 | 33.73306  | 1387.01175  | 34.29019   | 615.64359  | 30.07623  | 371.70873  | 153.92331 |
| 1552.01 | 1503.33461  | 42.13749   | 657.55219  | 296.38666 | 100.50854 | 14.45343  | 1396.08888  | 111.9854   | 523.91038  | 16.58112  | 386.24809  | 80.40234  |
| 1553.82 | 1419.91889  | 87.08114   | 575.40796  | 332.2942  | 103.61054 | 43.91394  | 1258.70064  | 73.06287   | 421.07289  | 57.8507   | 396.15498  | 77.58641  |
| 1555.62 | 1407.65415  | 12.23359   | 512.25745  | 280.60585 | 83.36316  | 40.4855   | 1345.5121   | 101.19276  | 337.13515  | 60.37092  | 436.119    | 90.84838  |
| 1557.43 | 1532.51791  | 15.44048   | 436.77883  | 289.27886 | 75.75271  | 94.19268  | 1432.52164  | 90.06602   | 338.76626  | 69.48827  | 418.16402  | 127.92886 |
| 1559.23 | 1752.82106  | 203.20656  | 417.63904  | 281.51103 | 70.43356  | 28.94535  | 1558.061    | 96.66668   | 366.63657  | 35.06974  | 419.64654  | 99.73962  |
| 1561.03 | 2024.54113  | 132.79807  | 386.83289  | 294.51183 | 84.73133  | 20.85048  | 1672.79525  | 204.69863  | 333.7509   | 69.40319  | 403.58981  | 48.41553  |
| 1562.84 | 2353.32233  | 256.08711  | 393.35364  | 303.17618 | 88.97799  | 6.43546   | 1922.05611  | 176.39268  | 256.11409  | 47.2656   | 379.01701  | 183.76439 |
| 1564.64 | 2789.14221  | 311.23258  | 382.86885  | 293.09454 | 87.50613  | 23.16832  | 2247.84198  | 164.32584  | 286.73235  | 98.31777  | 402.61867  | 100.27698 |
| 1566.44 | 3449.31163  | 266.03424  | 563.71998  | 292.52011 | 96.64727  | 7.53137   | 2794.81792  | 221.73185  | 416.94982  | 29.53245  | 398.08699  | 80.47452  |
| 1568.24 | 4229.14146  | 343.53927  | 691.92441  | 325.51905 | 88.39907  | 28.99672  | 3550.649    | 294.507    | 544.44731  | 41.49623  | 430.44819  | 84.4624   |
| 1570.04 | 5276.60926  | 497.93853  | 870.81493  | 243.67817 | 70.08843  | 24.54394  | 4598.00028  | 510.44993  | 688.23694  | 135.9238  | 459.39605  | 67.67493  |
| 1571.84 | 6838.02589  | 596.07101  | 1228.03698 | 311.84805 | 78.70808  | 11.29734  | 5766.53681  | 554.25041  | 951.65891  | 115.88525 | 495.95719  | 68.70662  |
| 1573.64 | 8641.70222  | 687.4894   | 1648.902   | 338.9049  | 94.59062  | 24.2613   | 7272.59034  | 639.56631  | 1406.04879 | 117.31379 | 475.15659  | 94.52143  |
| 1575.44 | 10711.61581 | 831.14315  | 2073.05475 | 451.19235 | 63.40504  | 30.89766  | 8803.15925  | 899.75847  | 1873.40876 | 102.19677 | 490.01607  | 156.96838 |
| 1577.23 | 12934.07751 | 930.90557  | 2702.80666 | 524.04593 | 78.15035  | 17.18977  | 10672.57529 | 847.44436  | 2459.40765 | 226.55333 | 455.88846  | 69.67868  |

|         |             |            |            |            |           |          |             |            |            |           |           |           |
|---------|-------------|------------|------------|------------|-----------|----------|-------------|------------|------------|-----------|-----------|-----------|
| 1579.03 | 14837.73153 | 1076.95316 | 3275.13584 | 658.43446  | 81.16806  | 26.46596 | 12549.5035  | 1000.67704 | 3120.38096 | 245.34521 | 515.79041 | 76.63691  |
| 1580.83 | 15657.2221  | 1145.7856  | 3802.02037 | 855.8056   | 83.13627  | 15.90392 | 14372.94228 | 1137.30936 | 3660.66419 | 200.9863  | 474.73705 | 68.78559  |
| 1582.62 | 15632.1934  | 1105.96007 | 4039.43836 | 898.5871   | 74.73516  | 48.84386 | 15635.89004 | 1118.6554  | 4131.59284 | 115.1654  | 453.07297 | 102.14092 |
| 1584.41 | 14598.28965 | 1035.28698 | 3998.03456 | 981.17422  | 119.31282 | 17.90069 | 16069.6785  | 1230.14348 | 4279.50243 | 149.26445 | 492.80717 | 124.93844 |
| 1586.21 | 13283.82172 | 1000.00485 | 3684.45375 | 946.03934  | 65.5555   | 15.21142 | 15496.97272 | 1108.11977 | 4210.39511 | 218.80852 | 480.9472  | 39.76166  |
| 1588    | 11722.76715 | 831.70029  | 3176.00736 | 936.67639  | 72.80371  | 15.61263 | 14121.43777 | 843.34654  | 3778.60639 | 79.33783  | 474.83095 | 72.75707  |
| 1589.79 | 10250.43681 | 702.3697   | 2594.34014 | 789.18086  | 96.07294  | 22.30703 | 12215.40537 | 723.5005   | 3128.80511 | 159.94628 | 499.46042 | 74.48123  |
| 1591.58 | 8950.80826  | 537.46421  | 2061.09687 | 647.56028  | 105.71743 | 14.24755 | 9973.5406   | 699.07221  | 2359.99343 | 157.41283 | 468.16867 | 105.62776 |
| 1593.37 | 8061.85901  | 467.62494  | 1580.92231 | 654.64955  | 122.42094 | 33.50482 | 8062.84184  | 444.37934  | 1754.17353 | 123.0439  | 516.61877 | 53.70078  |
| 1595.16 | 7514.89996  | 442.62963  | 1242.79455 | 544.02571  | 91.19289  | 24.43701 | 6321.30749  | 409.31904  | 1280.34757 | 72.47528  | 448.13843 | 70.7133   |
| 1596.95 | 7484.24196  | 446.53044  | 1008.02503 | 602.43153  | 78.7028   | 27.64915 | 5161.93595  | 413.9143   | 995.18439  | 30.73675  | 453.38478 | 130.87124 |
| 1598.74 | 7632.19591  | 309.43273  | 856.2569   | 457.78727  | 96.61856  | 29.26331 | 4287.05895  | 283.08211  | 840.68616  | 116.40877 | 441.34711 | 76.49962  |
| 1600.53 | 8298.406    | 454.40685  | 774.12356  | 528.51781  | 92.61106  | 42.92338 | 3813.34155  | 241.7653   | 687.18831  | 99.79753  | 332.67995 | 91.57121  |
| 1602.32 | 9613.84976  | 577.71108  | 788.57963  | 513.98137  | 78.68094  | 31.41657 | 3629.44881  | 165.06946  | 708.02497  | 100.53264 | 430.37027 | 43.63945  |
| 1604.1  | 11440.83809 | 721.01231  | 903.25648  | 537.81261  | 90.49308  | 29.4646  | 3700.0458   | 252.19248  | 812.52568  | 87.51332  | 430.40863 | 119.00476 |
| 1605.89 | 14262.34851 | 1011.21812 | 1191.79082 | 575.46394  | 80.04873  | 25.34546 | 4113.79757  | 389.52246  | 921.68268  | 86.61306  | 448.78513 | 133.81688 |
| 1607.67 | 17649.69191 | 1104.55571 | 1681.81343 | 648.32881  | 111.68083 | 11.14375 | 4848.70254  | 370.91705  | 1047.48666 | 122.82796 | 362.82273 | 95.42386  |
| 1609.46 | 21636.17915 | 1339.7744  | 2445.27794 | 707.21799  | 105.05816 | 10.61219 | 6035.75908  | 438.5113   | 1438.59464 | 175.29875 | 405.84318 | 70.65991  |
| 1611.24 | 25491.1211  | 1319.18545 | 3574.80466 | 870.36015  | 77.5063   | 32.11439 | 7660.63227  | 510.06659  | 1961.33024 | 285.88918 | 414.83722 | 77.06494  |
| 1613.02 | 28163.82865 | 1340.40985 | 4903.34724 | 1083.62779 | 81.67683  | 30.07805 | 9601.98716  | 719.88848  | 2768.68379 | 345.21007 | 372.79617 | 52.09311  |
| 1614.8  | 28252.61266 | 1252.55345 | 6106.526   | 1252.49224 | 104.22483 | 25.68712 | 11468.48883 | 713.99096  | 3693.31227 | 432.98591 | 396.71151 | 60.42187  |
| 1616.58 | 25463.78401 | 1124.89968 | 6803.96123 | 1436.68863 | 65.47396  | 23.69727 | 12796.80233 | 580.06908  | 4552.53932 | 418.70764 | 381.24333 | 98.96302  |
| 1618.36 | 20398.65357 | 804.84034  | 6582.93993 | 1477.25861 | 93.40826  | 22.86732 | 12878.25939 | 502.10446  | 5127.68858 | 422.89431 | 355.05265 | 144.16128 |
| 1620.14 | 14911.86555 | 667.73231  | 5475.0824  | 1309.98352 | 77.02011  | 15.50916 | 11837.85841 | 341.96308  | 5126.0837  | 251.31001 | 366.1354  | 87.3687   |
| 1621.92 | 10175.73083 | 388.16152  | 4083.34229 | 1072.54804 | 102.96571 | 6.67144  | 10061.59778 | 249.51463  | 4626.38166 | 256.58779 | 371.49019 | 72.94208  |
| 1623.7  | 7055.22693  | 342.57168  | 2748.67324 | 744.453101 | 66.57167  | 0.72736  | 7869.14257  | 137.78831  | 3665.57278 | 149.29191 | 394.11784 | 100.16649 |
| 1625.48 | 4944.33141  | 199.65792  | 1869.36224 | 571.95076  | 72.82463  | 25.86864 | 5791.49118  | 144.64122  | 2721.64737 | 128.50046 | 349.02114 | 118.31761 |
| 1627.26 | 3511.68847  | 38.5662    | 1286.36292 | 390.61551  | 66.0525   | 11.8793  | 4132.64199  | 115.56706  | 1887.59573 | 104.97595 | 406.20395 | 106.37224 |
| 1629.03 | 2622.60898  | 80.68689   | 949.2956   | 320.709    | 67.92187  | 39.3769  | 3045.92675  | 133.63648  | 1375.40818 | 52.70534  | 415.00636 | 95.58058  |
| 1630.81 | 1952.40382  | 79.03171   | 730.78058  | 271.87712  | 102.10745 | 25.01582 | 2186.01051  | 120.7712   | 1017.07504 | 75.2763   | 393.76902 | 86.68193  |
| 1632.58 | 1515.7172   | 140.75326  | 567.1009   | 258.21313  | 103.95799 | 29.35059 | 1738.225    | 98.25393   | 805.91994  | 46.98454  | 408.49939 | 124.27849 |
| 1634.36 | 1182.85998  | 78.19872   | 487.51956  | 228.17645  | 84.81622  | 13.49738 | 1365.90195  | 147.64696  | 648.59979  | 117.48886 | 423.53936 | 102.26021 |
| 1636.13 | 858.47637   | 31.58913   | 403.96231  | 162.01335  | 88.35162  | 23.11249 | 1100.70643  | 206.00443  | 563.76924  | 100.98952 | 404.23124 | 35.29136  |
| 1637.9  | 605.87723   | 101.22021  | 341.69054  | 130.60886  | 64.90087  | 16.16465 | 813.63683   | 85.02472   | 472.40979  | 25.24262  | 416.91716 | 93.90138  |
| 1639.67 | 431.70356   | 73.00721   | 281.96973  | 156.12278  | 86.13319  | 8.56688  | 572.69154   | 135.85247  | 346.49554  | 54.43824  | 396.93988 | 106.16094 |
| 1641.44 | 302.92238   | 76.03546   | 211.7263   | 76.46698   | 70.72636  | 12.15455 | 395.20073   | 122.69127  | 243.32975  | 97.82735  | 384.97558 | 108.07244 |
| 1643.21 | 278.83311   | 128.02859  | 203.89423  | 75.03277   | 109.35823 | 27.6888  | 363.82387   | 190.20079  | 286.21654  | 71.83548  | 411.03469 | 94.30337  |
| 1644.98 | 222.40623   | 95.34203   | 189.75746  | 62.00727   | 84.37951  | 20.66454 | 301.21709   | 137.70281  | 293.13183  | 75.00454  | 433.79577 | 16.35746  |
| 1646.75 | 242.95097   | 100.06884  | 252.61815  | 20.93663   | 96.80026  | 36.0787  | 387.70077   | 174.58573  | 331.38821  | 75.24657  | 396.60434 | 85.15393  |
| 1648.52 | 319.45098   | 79.78738   | 207.80238  | 36.13568   | 81.96461  | 33.96574 | 323.92874   | 94.27356   | 321.96803  | 129.27667 | 460.13871 | 68.11342  |
| 1650.29 | 367.56349   | 71.10842   | 231.30161  | 3.7153     | 105.21275 | 9.31095  | 282.88473   | 182.57686  | 270.52174  | 68.58547  | 480.07811 | 123.61316 |
| 1652.06 | 308.94944   | 87.29549   | 222.45733  | 82.52768   | 106.88661 | 19.81373 | 272.21839   | 133.02512  | 279.36835  | 63.70936  | 411.4335  | 10.75151  |
| 1653.82 | 317.93813   | 76.06982   | 263.2849   | 31.47666   | 60.98728  | 46.42942 | 229.91358   | 105.91263  | 283.16418  | 62.02662  | 430.21332 | 73.95026  |
| 1655.59 | 381.52972   | 19.99575   | 236.47896  | 51.07812   | 64.17483  | 20.28059 | 276.28889   | 203.19283  | 286.90254  | 73.67771  | 449.75969 | 98.09383  |
| 1657.35 | 351.06143   | 56.07404   | 285.72878  | 12.09907   | 90.78615  | 16.59076 | 238.66597   | 119.16727  | 325.91356  | 124.19968 | 422.08092 | 78.31712  |
| 1659.12 | 323.53831   | 73.60303   | 260.39545  | 34.55356   | 96.50033  | 23.42235 | 254.03432   | 157.84311  | 331.864    | 121.65636 | 476.18405 | 135.65479 |
| 1660.88 | 276.96779   | 43.11737   | 246.159    | 50.93273   | 100.66136 | 47.88092 | 251.38617   | 172.15572  | 409.42233  | 65.43733  | 485.07602 | 94.94758  |
| 1662.64 | 317.36085   | 32.94153   | 255.02849  | 53.47757   | 103.60924 | 2.18829  | 340.71582   | 162.26294  | 330.92515  | 174.20347 | 441.7614  | 43.81886  |
| 1664.4  | 283.73395   | 94.40338   | 243.01429  | 38.02928   | 104.34674 | 10.3578  | 334.01981   | 176.19065  | 313.04059  | 113.61452 | 444.57538 | 104.68996 |
| 1666.17 | 293.4407    | 83.75739   | 249.45789  | 40.5759    | 67.53655  | 24.96886 | 293.29312   | 148.60724  | 397.77163  | 63.86062  | 461.18555 | 122.6212  |
| 1667.93 | 303.8399    | 17.65748   | 248.37002  | 27.92719   | 70.16757  | 30.13993 | 281.52952   | 159.97365  | 382.4568   | 86.76286  | 470.25846 | 123.10445 |
| 1669.69 | 338.62847   | 39.06119   | 232.76139  | 26.89224   | 102.23623 | 7.91287  | 325.72325   | 186.86996  | 369.43333  | 72.30091  | 479.79223 | 42.25247  |
| 1671.44 | 336.84107   | 61.80821   | 221.3098   | 50.77219   | 95.41205  | 31.43601 | 284.86949   | 120.21758  | 390.70448  | 56.50708  | 452.11621 | 83.07855  |
| 1673.2  | 306.51523   | 58.7711    | 244.36637  | 25.26732   | 106.02488 | 16.11549 | 269.96299   | 108.35079  | 396.94004  | 60.61214  | 472.22393 | 124.84222 |
| 1674.96 | 298.35816   | 37.51232   | 253.29345  | 8.25491    | 76.73446  | 11.03105 | 233.66598   | 158.97506  | 383.14213  | 47.98419  | 436.10756 | 57.98297  |
| 1676.72 | 396.41466   | 17.41462   | 251.12211  | 35.15631   | 89.8607   | 24.80339 | 305.97544   | 180.23891  | 368.64496  | 154.3394  | 400.09041 | 107.63784 |
| 1678.47 | 431.40078   | 41.1557    | 253.21516  | 9.04914    | 92.72734  | 22.72341 | 317.89131   | 195.89305  | 327.11537  | 109.69663 | 408.49509 | 100.94055 |
| 1680.23 | 443.69974   | 78.47133   | 216.9349   | 28.16071   | 66.99007  | 23.3547  | 275.41343   | 154.50723  | 369.8868   | 42.45602  | 435.97833 | 122.31049 |
| 1681.98 | 417.69383   | 94.18737   | 231.30877  | 5.83399    | 67.96872  | 47.49786 | 191.20777   | 199.99742  | 367.29433  | 63.74604  | 438.53066 | 106.31515 |
| 1683.74 | 455.76387   | 28.52678   | 246.71053  | 24.88273   | 73.99084  | 25.15151 | 249.27479   | 116.96782  | 348.33959  | 76.68713  | 400.47523 | 73.44387  |
| 1685.49 | 528.95697   | 57.77301   | 272.52121  | 44.23981   | 107.05805 | 12.98701 | 301.6197    | 117.61519  | 331.02416  | 81.10544  | 401.13438 | 102.72243 |
| 1687.24 | 506.98506   | 35.69112   | 253.78954  | 26.13979   | 91.84358  | 48.54338 | 282.24998   | 134.63995  | 411.01705  | 58.9649   | 406.16457 | 95.49015  |
| 1689    | 603.88856   | 83.60323   | 230.88866  | 24.59439   | 106.01354 | 33.49001 | 309.83987   | 114.10936  | 341.3221   | 30.97327  | 375.88969 | 50.07751  |
| 1690.75 | 565.7039    | 47.38982   | 286.85658  | 10.19109   | 75.56556  | 31.04484 | 332.73124   | 179.3475   | 344.27464  | 88.09485  | 398.96749 | 126.32487 |
| 1692.5  | 622.12674   | 50.35852   | 284.73874  | 13.55072   | 123.48991 | 27.14382 | 318.26569   | 193.0759   | 310.21102  | 79.58531  | 352.39085 | 109.11025 |

|         |           |          |           |          |          |          |           |           |           |          |           |          |
|---------|-----------|----------|-----------|----------|----------|----------|-----------|-----------|-----------|----------|-----------|----------|
| 1694.25 | 658.84673 | 79.56906 | 256.90014 | 32.67045 | 76.44789 | 27.87795 | 301.11701 | 141.02907 | 413.46857 | 30.50194 | 376.82018 | 74.74979 |
| 1696    | 689.88232 | 79.77708 | 269.02651 | 38.90799 | 97.76072 | 5.36445  | 398.62506 | 216.50974 | 439.0536  | 58.05665 | 395.91865 | 68.01217 |
| 1697.75 | 751.9123  | 49.99282 | 266.80064 | 16.83721 | 56.08689 | 20.8168  | 426.13004 | 139.83639 | 400.97054 | 79.78616 | 401.01787 | 75.53658 |

d) Fig.S5 SERS spectra

| Raman Shift (cm-1) | CV 2.45 uM anhydrous-AuNPs | CV 1.22 uM hydrated-AuNPs | CV 12.2 nM hydrated-AuNPs | Blank-AuNPs | CV 2.45 uM hydrated-AgNPs | CV 1.22 uM hydrated-AgNPs | Blank-AgNPs |
|--------------------|----------------------------|---------------------------|---------------------------|-------------|---------------------------|---------------------------|-------------|
| 400.19             | 1804.40698                 | 1316.54539                | 554.39204                 | 90.28241    | 519.86592                 | 205.35609                 | 212.948     |
| 402.48             | 3375.03601                 | 1262.00933                | 188.10784                 | 90.39014    | 738.52686                 | 147.22425                 | 188.91971   |
| 404.76             | 5551.32017                 | 1871.5339                 | 197.4919                  | 110.49626   | 1074.18511                | 505.07852                 | 174.2246    |
| 407.05             | 8597.58128                 | 2709.04377                | 272.52473                 | 107.93611   | 1656.5112                 | 822.91433                 | 172.8634    |
| 409.33             | 12689.14113                | 3672.46363                | 407.1978                  | 69.70325    | 2631.509                  | 1582.72712                | 234.83827   |
| 411.61             | 17627.9882                 | 5094.71817                | 613.48367                 | 74.78374    | 3902.84904                | 2580.51229                | 139.15292   |
| 413.9              | 23005.11095                | 5869.73207                | 695.34831                 | 108.50373   | 5517.86851                | 3295.26529                | 164.14335   |
| 416.18             | 28042.49787                | 6769.43                   | 853.75769                 | 102.86064   | 7349.23793                | 4609.98153                | 169.1485    |
| 418.46             | 31794.80408                | 7260.73667                | 993.67777                 | 45.84975    | 8755.29451                | 5442.65644                | 239.17585   |
| 420.74             | 33438.68473                | 7469.57675                | 954.07452                 | 80.46444    | 9431.0421                 | 5690.28544                | 142.56791   |
| 423.01             | 32034.79496                | 6871.87493                | 971.9139                  | 78.38094    | 8881.48457                | 5139.86397                | 232.66595   |
| 425.29             | 28380.78989                | 6153.55589                | 928.16188                 | 89.94451    | 7414.29245                | 4497.38745                | 180.14735   |
| 427.57             | 24371.658                  | 5303.54432                | 714.78442                 | 60.83761    | 5796.80292                | 4076.8513                 | 143.68857   |
| 429.84             | 21934.7211                 | 4625.7649                 | 547.74749                 | 94.07452    | 4569.35319                | 3517.25094                | 243.3006    |
| 432.12             | 22574.96766                | 4748.14232                | 573.01705                 | 72.34649    | 4413.28045                | 3423.58181                | 281.33054   |
| 434.39             | 25066.05281                | 5209.60127                | 688.55906                 | 126.00835   | 4767.92189                | 3588.83933                | 224.79074   |
| 436.66             | 28091.96503                | 5587.06641                | 684.33945                 | 100.42062   | 5656.28138                | 3597.01893                | 253.36014   |
| 438.93             | 28790.02611                | 6153.46245                | 877.32418                 | 100.26388   | 6197.02944                | 3576.11602                | 270.05038   |
| 441.2              | 26809.59535                | 5872.71407                | 986.4792                  | 83.21312    | 6047.16993                | 3307.12604                | 265.53876   |
| 443.47             | 24690.95332                | 5558.74595                | 1029.77045                | 100.27111   | 5170.37339                | 2664.04442                | 258.16796   |
| 445.74             | 18546.44625                | 5309.48277                | 1320.16388                | 92.44183    | 4130.97701                | 1969.86657                | 335.94526   |
| 448.01             | 13468.73277                | 4842.84922                | 1509.62543                | 86.72397    | 3221.31798                | 1382.58792                | 252.87603   |
| 450.27             | 10482.80485                | 4447.76999                | 1419.12106                | 100.11376   | 2538.7335                 | 1282.20391                | 336.63026   |
| 452.54             | 8318.98779                 | 3699.16976                | 1194.6167                 | 112.60726   | 2016.22743                | 948.70994                 | 267.54303   |
| 454.8              | 6729.27356                 | 2810.97321                | 1119.07831                | 74.52838    | 1715.80363                | 776.10146                 | 355.28133   |
| 457.07             | 5772.32078                 | 2274.10504                | 789.47184                 | 96.19126    | 1514.7993                 | 724.37389                 | 407.1766    |
| 459.33             | 4876.7881                  | 1764.48992                | 566.76322                 | 111.58173   | 1311.88496                | 657.52264                 | 361.22468   |
| 461.59             | 3956.66748                 | 1218.05253                | 402.91841                 | 89.01551    | 1029.73114                | 522.54315                 | 366.42062   |
| 463.85             | 3059.95088                 | 826.71757                 | 285.90335                 | 92.80746    | 745.67504                 | 242.43085                 | 344.09049   |
| 466.11             | 2066.29693                 | 622.40972                 | 269.67619                 | 118.93799   | 688.0538                  | 329.18114                 | 308.89146   |
| 468.37             | 1377.03095                 | 694.04675                 | 259.17122                 | 53.38493    | 612.53596                 | 287.76182                 | 305.47797   |
| 470.62             | 707.81155                  | 306.46847                 | 41.30498                  | 86.11367    | 468.45471                 | 91.1264                   | 320.16981   |
| 472.88             | 365.96404                  | 175.45846                 | 85.9803                   | 65.76946    | 420.47167                 | 206.19545                 | 292.28624   |
| 475.14             | 173.14071                  | 165.82999                 | 218.17355                 | 86.33096    | 382.57829                 | 87.92136                  | 261.14308   |
| 477.39             | 193.9956                   | 108.47861                 | 216.91677                 | 92.11843    | 379.43056                 | 266.24227                 | 223.05412   |
| 479.65             | 540.1926                   | 203.38597                 | 107.2446                  | 71.11887    | 471.68376                 | 331.12946                 | 265.33116   |
| 481.9              | 779.40454                  | 348.6428                  | 224.19487                 | 80.98383    | 459.65936                 | 201.5206                  | 210.95209   |
| 484.15             | 1167.96601                 | 542.41094                 | 286.85249                 | 58.70423    | 483.34339                 | 296.34003                 | 195.5594    |
| 486.4              | 1435.874                   | 875.86499                 | 284.30261                 | 65.27315    | 521.7181                  | 131.49973                 | 179.79549   |
| 488.65             | 1291.45883                 | 1789.11722                | 584.60621                 | 83.028      | 337.09464                 | 11.88124                  | 178.97002   |
| 490.9              | 978.05082                  | 2942.27732                | 900.80098                 | 94.31465    | 232.44586                 | 61.3817                   | 92.3939     |
| 493.15             | 649.9803                   | 4342.45494                | 1354.92459                | 82.48482    | 252.74588                 | 130.96188                 | 116.04596   |
| 495.39             | 457.91078                  | 5136.75977                | 1613.01475                | 68.5555     | 105.30772                 | 58.62623                  | 97.24324    |
| 497.64             | 844.49903                  | 5051.30148                | 1983.10914                | 89.21185    | 119.44916                 | 249.39508                 | 76.30669    |
| 499.88             | 1674.39977                 | 4898.18975                | 2102.24544                | 84.47947    | 275.83221                 | 622.33359                 | 94.22859    |
| 502.13             | 2906.59822                 | 4792.53423                | 2463.46135                | 86.71684    | 486.79584                 | 728.47708                 | 137.67344   |
| 504.37             | 4276.74627                 | 4911.44462                | 2594.79456                | 110.2833    | 649.34969                 | 913.86092                 | 61.64389    |
| 506.61             | 5663.49581                 | 4689.03058                | 2692.28276                | 96.53805    | 1032.83237                | 1071.52044                | 129.81223   |
| 508.85             | 6586.16538                 | 4523.40179                | 2283.96363                | 80.49777    | 1324.57894                | 1085.49099                | 186.19025   |
| 511.09             | 7428.07354                 | 4079.66792                | 1725.87486                | 80.50972    | 1612.92445                | 1210.80792                | 141.79308   |



|        |             |            |            |           |            |            |           |
|--------|-------------|------------|------------|-----------|------------|------------|-----------|
| 513.33 | 8996.20551  | 3868.93864 | 1485.05414 | 82.2568   | 2174.53729 | 1444.50658 | 245.30346 |
| 515.57 | 11175.87985 | 4182.32363 | 1363.53916 | 94.75943  | 2960.08583 | 1967.6223  | 248.40697 |
| 517.81 | 13679.74843 | 4328.93255 | 1370.36762 | 90.70765  | 3886.90512 | 2291.19044 | 311.12188 |
| 520.04 | 16257.46314 | 4970.8751  | 1237.57718 | 119.12146 | 4847.66353 | 2825.24633 | 370.13218 |
| 522.28 | 18397.00921 | 5205.26093 | 1450.20556 | 100.01908 | 5658.69612 | 3129.82534 | 347.45384 |
| 524.51 | 19723.37186 | 6251.19973 | 1802.29043 | 101.07947 | 6068.0046  | 3372.96279 | 399.1014  |
| 526.75 | 19667.53629 | 7077.80116 | 2094.86949 | 90.64405  | 5753.25734 | 3219.69404 | 443.4208  |
| 528.98 | 18259.48774 | 7792.17489 | 2333.98041 | 79.71503  | 4937.45606 | 2779.05444 | 387.75665 |
| 531.21 | 16437.87808 | 8152.43062 | 2672.6609  | 125.62625 | 3867.26914 | 2690.07932 | 405.4532  |
| 533.44 | 13940.69255 | 7868.67799 | 2813.94864 | 71.38455  | 2837.36495 | 2203.80404 | 408.85247 |
| 535.67 | 11300.91634 | 7167.0267  | 2557.88132 | 92.98338  | 2067.74522 | 1823.26393 | 393.96163 |
| 537.9  | 9231.5347   | 5806.58641 | 2078.49663 | 75.75549  | 1530.74498 | 1632.49436 | 383.78665 |
| 540.13 | 7224.53283  | 4667.4668  | 1640.83225 | 104.03166 | 1131.36595 | 1140.53065 | 435.33196 |
| 542.36 | 5681.22929  | 3712.77754 | 1175.92588 | 56.48022  | 975.94317  | 1279.40816 | 344.60062 |
| 544.58 | 4456.27596  | 3008.6283  | 1013.8152  | 105.4292  | 827.47836  | 1136.16223 | 303.92887 |
| 546.81 | 3514.65807  | 3014.12876 | 933.5379   | 86.88528  | 659.63986  | 938.82821  | 254.98388 |
| 549.03 | 3159.69417  | 2851.3886  | 741.13168  | 106.51662 | 717.42791  | 747.44145  | 276.76428 |
| 551.25 | 3054.36947  | 2750.51747 | 813.63422  | 71.32455  | 801.17012  | 795.03728  | 306.60023 |
| 553.47 | 3726.00253  | 3041.62507 | 826.0832   | 71.30271  | 1197.85765 | 774.65106  | 191.1529  |
| 555.7  | 4485.24523  | 3605.82106 | 903.51633  | 96.1175   | 1667.48023 | 882.31813  | 171.08011 |
| 557.92 | 5061.0828   | 4450.21511 | 1122.97128 | 71.10801  | 2041.0276  | 833.07384  | 165.04047 |
| 560.13 | 5084.83378  | 5709.9169  | 1429.48574 | 94.27648  | 2264.48947 | 904.95353  | 270.36085 |
| 562.35 | 4575.15007  | 7020.03611 | 1848.09741 | 86.96456  | 2274.85559 | 1145.99255 | 181.03662 |
| 564.57 | 4167.01688  | 8042.6824  | 2274.84398 | 87.5114   | 2242.11567 | 1352.22624 | 196.06109 |
| 566.79 | 3839.41944  | 8476.96546 | 2605.76312 | 105.92399 | 2331.92611 | 1425.68995 | 199.42873 |
| 569    | 3602.67628  | 7598.99494 | 2545.89254 | 151.87552 | 2212.94332 | 1255.41902 | 214.80126 |
| 571.22 | 3289.77264  | 5901.88054 | 2070.26991 | 164.03144 | 1910.82367 | 1164.44881 | 261.50747 |
| 573.43 | 2953.02707  | 3887.73191 | 1480.93293 | 144.37968 | 1403.22358 | 868.81465  | 185.2093  |
| 575.64 | 2675.75812  | 2210.65874 | 897.91929  | 147.23575 | 1078.79942 | 895.5519   | 176.89989 |
| 577.85 | 2508.95101  | 1787.7707  | 634.26668  | 92.90701  | 736.54094  | 787.69589  | 160.57341 |
| 580.06 | 2327.59095  | 1982.17746 | 679.01277  | 102.69511 | 505.77028  | 583.28197  | 162.55872 |
| 582.27 | 2001.66317  | 3171.98869 | 812.19528  | 60.89968  | 325.13753  | 534.3455   | 119.85338 |
| 584.48 | 1472.48623  | 4552.31408 | 1226.85187 | 85.81409  | 218.95807  | 283.92181  | 73.1236   |
| 586.69 | 944.712     | 6447.26329 | 1807.02024 | 59.74186  | 86.88238   | 215.04625  | 125.706   |
| 588.9  | 565.65903   | 8017.94599 | 2371.73808 | 81.65347  | 32.56712   | 139.7205   | 136.2762  |
| 591.1  | 531.64553   | 9354.47186 | 2950.04308 | 95.86337  | 177.01392  | 247.9286   | 198.17999 |
| 593.31 | 395.31676   | 9649.95058 | 3286.97292 | 62.69189  | 90.90502   | 54.66688   | 200.76621 |
| 595.51 | 568.97968   | 9198.49181 | 3438.5653  | 117.78912 | 200.93057  | 225.90232  | 252.05083 |
| 597.72 | 676.60846   | 8534.20523 | 3278.8579  | 101.14797 | 256.7922   | 261.6483   | 272.0502  |
| 599.92 | 1411.83768  | 7315.20052 | 2864.8884  | 90.76055  | 441.53182  | 355.89643  | 267.44602 |
| 602.12 | 1953.63224  | 5539.58735 | 2386.69451 | 108.27978 | 554.52921  | 198.60547  | 287.58423 |
| 604.32 | 2088.29037  | 3828.47538 | 1598.31391 | 74.02348  | 659.4945   | 59.72904   | 259.8084  |
| 606.52 | 1878.44363  | 2288.9743  | 1070.78428 | 60.64077  | 548.7977   | 85.20953   | 219.45973 |
| 608.72 | 1772.39028  | 1151.19378 | 669.14331  | 66.45234  | 658.4703   | 147.03371  | 308.54405 |
| 610.91 | 2057.76186  | 928.2435   | 452.4287   | 72.45585  | 581.20378  | 73.22256   | 242.06682 |
| 613.11 | 2402.85663  | 426.23311  | 413.67813  | 124.65696 | 625.01731  | 193.80643  | 253.36408 |
| 615.31 | 2907.97282  | 449.2714   | 413.9283   | 80.73358  | 707.25666  | 245.85468  | 325.77051 |
| 617.5  | 3224.74198  | 459.44893  | 270.21078  | 76.35405  | 673.59382  | 379.42734  | 206.28574 |
| 619.69 | 3119.46237  | 538.82888  | 175.55208  | 89.189    | 738.03096  | 342.5557   | 238.90742 |
| 621.89 | 2752.76555  | 556.44304  | 192.96073  | 72.57969  | 687.89826  | 421.26919  | 246.3     |
| 624.08 | 2588.61642  | 309.26203  | 277.46497  | 113.19958 | 736.18915  | 473.58841  | 268.46006 |
| 626.27 | 2355.97989  | 478.18963  | 215.1058   | 105.72768 | 652.22548  | 385.53369  | 254.04959 |
| 628.46 | 1926.48752  | 351.15825  | 225.90349  | 83.50213  | 653.99233  | 362.12534  | 235.39489 |
| 630.65 | 1625.10421  | 494.06156  | 267.88216  | 59.52011  | 618.13693  | 408.38224  | 291.82114 |
| 632.84 | 1199.79487  | 585.80504  | 301.06549  | 60.78014  | 573.96889  | 352.31931  | 240.98576 |
| 635.03 | 779.85774   | 520.24928  | 327.46006  | 103.62483 | 524.45877  | 358.95096  | 257.87753 |



|        |             |            |            |           |            |            |           |
|--------|-------------|------------|------------|-----------|------------|------------|-----------|
| 637.21 | 513.25769   | 457.18056  | 311.04354  | 88.7403   | 544.56972  | 310.28562  | 296.15062 |
| 639.4  | 161.9541    | 419.33049  | 257.75951  | 95.13921  | 431.59214  | 249.32717  | 212.79059 |
| 641.58 | 167.23539   | 703.4002   | 238.51991  | 111.16677 | 460.47719  | 291.05547  | 303.44752 |
| 643.76 | 61.06691    | 789.07532  | 288.22353  | 106.16469 | 377.50671  | 263.42058  | 279.77135 |
| 645.95 | 176.42411   | 1643.99023 | 372.76369  | 110.13158 | 418.62536  | 297.34043  | 267.74231 |
| 648.13 | 388.29691   | 2561.76519 | 612.00903  | 54.05825  | 300.11068  | 296.69982  | 225.67132 |
| 650.31 | 795.35158   | 3128.02048 | 869.8076   | 83.92671  | 359.23807  | 182.35351  | 270.8669  |
| 652.49 | 1249.58856  | 3526.37634 | 998.00743  | 95.06519  | 246.61907  | 78.12597   | 245.30357 |
| 654.67 | 1683.00439  | 2733.45304 | 909.45658  | 76.13654  | 240.19885  | 109.83692  | 248.95353 |
| 656.85 | 2014.92896  | 1663.87085 | 542.0031   | 68.13349  | 334.59427  | 166.3431   | 192.78755 |
| 659.02 | 2394.35879  | 914.25002  | 408.49502  | 130.38615 | 373.42744  | 306.52555  | 219.44204 |
| 661.2  | 2747.29044  | 598.21083  | 243.78037  | 88.2319   | 461.65518  | 172.26698  | 161.55409 |
| 663.37 | 2609.3871   | 561.37235  | 180.7009   | 89.32917  | 568.23398  | 363.42415  | 203.09382 |
| 665.55 | 2161.31198  | 380.27721  | 299.09076  | 127.6698  | 468.11646  | 183.85311  | 167.03331 |
| 667.72 | 1671.72829  | 308.39977  | 207.80176  | 86.57794  | 327.91638  | 135.40615  | 118.67827 |
| 669.89 | 1196.63258  | 334.21453  | 284.6574   | 64.03037  | 183.91128  | 104.93019  | 149.33616 |
| 672.07 | 896.68803   | 217.22494  | 190.48797  | 67.67041  | 168.047    | 209.28624  | 110.98488 |
| 674.24 | 621.55787   | 162.95307  | 108.10038  | 87.15049  | 139.61033  | 124.36157  | 168.27153 |
| 676.41 | 461.9026    | 119.98648  | 130.31525  | 68.4638   | 76.22966   | 189.02802  | 87.51397  |
| 678.57 | 314.37612   | 0          | 0          | 96.93671  | 53.8762    | 50.17591   | 119.03176 |
| 680.74 | 161.29678   | 151.77296  | 183.05989  | 67.56936  | 86.53327   | 35.68816   | 49.14957  |
| 682.91 | 93.32019    | 212.23727  | 134.49031  | 89.35767  | 205.86388  | 104.4959   | 90.19581  |
| 685.08 | 187.11226   | 179.41658  | 214.30334  | 65.63839  | 262.54274  | 218.58431  | 186.17227 |
| 687.24 | 304.35208   | 203.40206  | 168.54728  | 88.41372  | 265.58459  | 67.96501   | 110.75236 |
| 689.4  | 411.06127   | 267.36553  | 190.2746   | 92.0275   | 249.00849  | 161.63058  | 124.61058 |
| 691.57 | 653.59914   | 297.54988  | 190.56032  | 73.82292  | 252.17109  | 53.6147    | 138.42557 |
| 693.73 | 731.99158   | 604.24338  | 324.49328  | 104.14099 | 264.76723  | 292.95459  | 183.21281 |
| 695.89 | 934.2584    | 595.76762  | 353.17604  | 95.66108  | 248.49656  | 200.73434  | 122.65743 |
| 698.05 | 1098.41613  | 766.36702  | 433.67726  | 98.059    | 385.72962  | 392.00642  | 147.11231 |
| 700.21 | 1311.81208  | 928.20987  | 556.03576  | 92.00686  | 460.50855  | 362.81128  | 240.60065 |
| 702.37 | 1529.46001  | 1007.44341 | 675.28813  | 61.17207  | 576.20802  | 494.18828  | 199.14821 |
| 704.53 | 1913.04035  | 1283.214   | 565.47097  | 79.2198   | 583.86576  | 490.17293  | 192.44617 |
| 706.68 | 2490.2335   | 1617.66782 | 728.62084  | 100.15861 | 618.18129  | 759.80075  | 260.18611 |
| 708.84 | 3539.05324  | 2148.95106 | 937.77432  | 106.66656 | 825.18059  | 941.10722  | 244.39366 |
| 711    | 4805.84664  | 2876.20992 | 1169.968   | 69.08675  | 999.21865  | 1215.12783 | 302.75906 |
| 713.15 | 7017.29413  | 3371.59056 | 1461.23845 | 86.09203  | 1358.98314 | 1435.89809 | 352.30446 |
| 715.3  | 9785.40945  | 3841.23918 | 1542.62223 | 135.02881 | 1843.49496 | 1387.45348 | 333.05019 |
| 717.46 | 13738.87305 | 3782.30197 | 1395.15594 | 116.91029 | 3197.77501 | 1375.8295  | 266.68099 |
| 719.61 | 18257.03199 | 3853.92511 | 1198.87614 | 56.74719  | 5672.51087 | 1836.06164 | 336.2127  |
| 721.76 | 20919.23337 | 3656.25479 | 1130.81941 | 101.87253 | 8198.3901  | 2327.18539 | 321.99227 |
| 723.91 | 20258.49095 | 3457.43719 | 878.02233  | 87.29786  | 8252.10029 | 2497.23625 | 299.03059 |
| 726.06 | 18274.15181 | 3159.6185  | 874.52147  | 113.36198 | 6595.66232 | 3148.24972 | 324.00352 |
| 728.2  | 16894.56304 | 3142.94491 | 848.35341  | 130.07002 | 5503.76378 | 3373.26128 | 356.91864 |
| 730.35 | 15207.40507 | 2939.56259 | 799.55472  | 87.08324  | 4434.42557 | 3276.30643 | 268.78142 |
| 732.5  | 12218.69163 | 2512.61775 | 706.16198  | 107.05805 | 2981.66859 | 2657.42066 | 294.59497 |
| 734.64 | 8951.10317  | 2197.25656 | 581.21177  | 83.65054  | 1852.84707 | 1882.63947 | 317.69349 |
| 736.78 | 7226.3201   | 1895.6252  | 576.74067  | 63.84197  | 1365.31527 | 1270.99835 | 317.40874 |
| 738.93 | 7090.02284  | 1748.86988 | 673.78523  | 89.28127  | 1370.42741 | 1071.53279 | 264.73556 |
| 741.07 | 8052.22514  | 2184.13677 | 624.38205  | 108.29308 | 1727.20439 | 837.27828  | 261.66636 |
| 743.21 | 8399.27409  | 2339.57205 | 609.56767  | 96.53412  | 1943.00047 | 953.27033  | 286.19134 |
| 745.35 | 7936.85013  | 2439.32192 | 632.37868  | 93.98628  | 1802.83653 | 1051.54442 | 249.29913 |
| 747.49 | 7613.63366  | 2446.53256 | 600.85164  | 87.96198  | 1441.73349 | 1037.13605 | 211.97555 |
| 749.63 | 8186.3051   | 2469.35015 | 669.02311  | 68.43731  | 1180.04558 | 796.08071  | 150.53826 |
| 751.77 | 9515.21155  | 2518.92089 | 635.92968  | 109.7211  | 1126.79371 | 777.4139   | 203.30476 |
| 753.9  | 12282.03343 | 2708.39096 | 774.60789  | 76.79598  | 1685.33211 | 957.1711   | 200.59505 |
| 756.04 | 14914.45116 | 2994.90654 | 708.09432  | 73.97155  | 2383.68168 | 1189.38782 | 132.39602 |

|        |             |            |            |           |            |            |            |
|--------|-------------|------------|------------|-----------|------------|------------|------------|
| 758.18 | 15152.14516 | 2897.61382 | 616.42554  | 58.56121  | 2703.86332 | 1414.09954 | 166.36162  |
| 760.31 | 11295.12919 | 2309.65899 | 470.6381   | 81.54996  | 2042.23128 | 1192.34175 | 74.81568   |
| 762.44 | 7710.41699  | 1491.18823 | 384.76858  | 51.26724  | 1001.80645 | 666.14996  | 94.75046   |
| 764.58 | 6187.689    | 902.34773  | 307.8531   | 83.71109  | 696.94307  | 439.55966  | 144.4972   |
| 766.71 | 5588.29229  | 812.28368  | 238.91312  | 53.56028  | 595.66198  | 148.60634  | 80.39191   |
| 768.84 | 5389.24063  | 527.14075  | 222.93926  | 83.49464  | 447.97967  | 152.32537  | 106.43998  |
| 770.97 | 5358.21443  | 428.05449  | 186.91649  | 76.87382  | 383.90565  | 152.76089  | 157.98549  |
| 773.1  | 5626.56079  | 244.10331  | 103.83052  | 112.72523 | 312.77942  | 154.96434  | 194.71019  |
| 775.22 | 6232.96013  | 384.34669  | 205.68221  | 104.41338 | 333.60639  | 274.99421  | 243.9646   |
| 777.35 | 7097.75952  | 534.89884  | 195.52093  | 88.96159  | 371.39426  | 206.91525  | 226.76654  |
| 779.48 | 8492.30607  | 621.87248  | 202.40368  | 125.06113 | 459.48542  | 453.75794  | 209.46574  |
| 781.6  | 10517.94686 | 1184.32051 | 250.3992   | 191.40224 | 586.22204  | 718.53829  | 223.41122  |
| 783.73 | 13002.69564 | 1463.21787 | 320.58517  | 203.33685 | 792.27584  | 856.27222  | 250.95201  |
| 785.85 | 15645.56617 | 1812.5395  | 315.02907  | 256.54515 | 1171.31287 | 1047.97568 | 280.76987  |
| 787.97 | 18358.5722  | 2491.26033 | 511.76492  | 228.03639 | 1464.3304  | 1235.66459 | 328.21155  |
| 790.09 | 20909.72749 | 2925.3553  | 517.79424  | 298.48647 | 1933.32571 | 1663.35488 | 375.95435  |
| 792.21 | 23261.0458  | 3486.79936 | 627.11849  | 338.23512 | 2339.29607 | 1810.06249 | 371.33897  |
| 794.33 | 24983.8742  | 3762.56744 | 803.73906  | 360.9554  | 2786.23876 | 2229.80336 | 469.03784  |
| 796.45 | 26434.89313 | 4318.63448 | 885.65737  | 343.65371 | 3202.48437 | 2413.59341 | 549.38827  |
| 798.57 | 26914.44967 | 4440.97542 | 927.87479  | 424.0031  | 3570.69685 | 2668.44859 | 571.39389  |
| 800.69 | 26725.89091 | 4672.5652  | 903.39274  | 458.67664 | 3932.2068  | 2797.38482 | 544.72499  |
| 802.8  | 25465.56394 | 4380.37875 | 894.21261  | 516.34739 | 4164.01149 | 2978.41803 | 611.3852   |
| 804.92 | 23611.4825  | 4243.39101 | 878.3358   | 515.02174 | 4268.1082  | 3247.56417 | 688.71147  |
| 807.03 | 21454.66037 | 4064.57693 | 931.76371  | 531.03942 | 4133.16087 | 3189.83916 | 731.37408  |
| 809.15 | 19056.11128 | 3557.91143 | 864.49775  | 575.07349 | 3739.83344 | 3286.25894 | 776.04331  |
| 811.26 | 16990.849   | 3357.36947 | 922.5393   | 568.13034 | 3361.4565  | 2940.83944 | 737.38944  |
| 813.37 | 15535.55395 | 3157.92597 | 950.88976  | 572.21638 | 3105.694   | 2859.5966  | 763.41608  |
| 815.48 | 14452.23988 | 3069.55588 | 896.55055  | 562.00465 | 2560.20989 | 2581.54634 | 812.79353  |
| 817.59 | 13568.58721 | 2970.23413 | 839.52304  | 585.50156 | 2283.00142 | 2403.70461 | 795.85872  |
| 819.7  | 13188.60971 | 3061.93567 | 911.80866  | 642.7135  | 2109.06588 | 2166.08733 | 851.61528  |
| 821.81 | 12978.98778 | 3000.63542 | 952.40878  | 644.9802  | 2053.0672  | 2191.71044 | 850.06681  |
| 823.92 | 13002.40185 | 3034.30834 | 861.32482  | 675.30805 | 2009.33598 | 2156.58987 | 851.21694  |
| 826.02 | 12812.53235 | 3105.92935 | 961.55817  | 720.03677 | 1886.20285 | 2115.74156 | 870.06927  |
| 828.13 | 12675.05968 | 3213.4734  | 952.11023  | 704.17277 | 1910.99839 | 2142.18144 | 908.96077  |
| 830.23 | 12234.99762 | 3288.91543 | 1020.98239 | 725.3891  | 2013.38654 | 2081.92544 | 932.5617   |
| 832.34 | 11698.02658 | 3410.23037 | 1025.17607 | 747.69216 | 2000.69793 | 2016.9895  | 938.20901  |
| 834.44 | 11158.16031 | 3306.39316 | 1010.69265 | 778.75501 | 1753.92981 | 1900.38954 | 949.23966  |
| 836.54 | 10721.41258 | 3333.37874 | 1079.53354 | 848.91738 | 1920.41279 | 1825.14151 | 966.9906   |
| 838.64 | 10238.13046 | 3204.16205 | 1099.70013 | 824.51899 | 1796.81081 | 1966.26134 | 1006.1321  |
| 840.74 | 9657.32771  | 3470.71803 | 1175.19383 | 838.89957 | 1717.45448 | 1841.76496 | 1017.00112 |
| 842.84 | 9253.35142  | 3357.02161 | 1199.01603 | 914.73219 | 1651.00773 | 1780.6683  | 1044.60126 |
| 844.94 | 8767.21535  | 3392.04774 | 1143.16814 | 922.02323 | 1605.46784 | 1961.9873  | 1107.26948 |
| 847.04 | 8348.93325  | 3197.77134 | 1265.65154 | 904.44576 | 1616.49875 | 2126.73789 | 1083.67606 |
| 849.14 | 7912.18554  | 3298.16737 | 1353.46765 | 927.67284 | 1477.09773 | 2142.936   | 1135.82462 |
| 851.23 | 7687.98598  | 3259.21076 | 1441.61785 | 934.37753 | 1425.92871 | 2447.59757 | 1214.38543 |
| 853.33 | 7576.34832  | 3477.87645 | 1470.10355 | 925.56622 | 1283.65565 | 2686.73853 | 1262.02878 |
| 855.42 | 7278.28631  | 3593.13937 | 1462.92615 | 837.57865 | 1270.94246 | 2722.37482 | 1282.09161 |
| 857.51 | 6935.48038  | 3530.97447 | 1515.08704 | 797.75453 | 1040.45309 | 2893.52237 | 1398.91088 |
| 859.61 | 6521.27762  | 3577.35668 | 1576.58763 | 699.76694 | 777.1848   | 2799.1971  | 1382.4902  |
| 861.7  | 6420.35844  | 3268.26095 | 1236.42932 | 604.95559 | 739.13417  | 2622.41496 | 1263.83319 |
| 863.79 | 5992.73661  | 2832.6622  | 1287.61349 | 462.32689 | 607.96114  | 2038.19188 | 1101.94345 |
| 865.88 | 5503.42587  | 2292.53538 | 1218.14156 | 419.55389 | 462.32237  | 1507.5438  | 810.15795  |
| 867.97 | 5332.77331  | 2091.85543 | 1005.01492 | 411.97632 | 506.53627  | 1139.48663 | 696.48028  |
| 870.06 | 5136.12603  | 1537.59728 | 726.23497  | 335.26724 | 463.91734  | 806.03633  | 507.24742  |
| 872.14 | 4831.49778  | 1060.73588 | 589.80311  | 273.43305 | 363.77713  | 706.20882  | 340.79629  |
| 874.23 | 4532.23564  | 921.24616  | 457.72074  | 215.81347 | 293.08992  | 574.02004  | 334.79686  |

|        |             |            |            |           |            |            |           |
|--------|-------------|------------|------------|-----------|------------|------------|-----------|
| 876.31 | 4258.35337  | 531.10301  | 412.98925  | 160.08157 | 177.49675  | 454.48591  | 299.9164  |
| 878.4  | 4225.19806  | 347.28028  | 260.60925  | 112.2436  | 195.6418   | 253.62238  | 219.81977 |
| 880.48 | 4160.11679  | 413.69334  | 298.5761   | 74.63178  | 231.51048  | 222.44532  | 203.83557 |
| 882.56 | 4146.12333  | 245.27089  | 211.87089  | 73.56846  | 136.42863  | 155.93962  | 157.29196 |
| 884.65 | 4292.89809  | 251.92845  | 268.44656  | 79.38063  | 235.06108  | 212.06968  | 180.85068 |
| 886.73 | 4460.45482  | 434.63577  | 172.26122  | 85.06709  | 191.4156   | 185.8057   | 199.17565 |
| 888.81 | 4649.14062  | 292.41422  | 197.25567  | 70.96269  | 192.17208  | 92.10139   | 138.93194 |
| 890.89 | 4934.96924  | 432.26358  | 115.39178  | 65.40279  | 234.35109  | 199.90431  | 203.45177 |
| 892.97 | 5432.28777  | 643.21901  | 192.64241  | 83.72898  | 316.98045  | 159.19345  | 101.07026 |
| 895.04 | 6108.4433   | 955.29504  | 200.02431  | 82.29122  | 475.09349  | 322.93606  | 250.78946 |
| 897.12 | 6944.78291  | 1209.43047 | 346.56708  | 31.10716  | 703.3923   | 542.10392  | 205.94927 |
| 899.19 | 8123.65369  | 1758.5636  | 317.31024  | 83.86279  | 930.5745   | 713.65146  | 226.22132 |
| 901.27 | 9572.40273  | 2550.63273 | 455.26131  | 109.26619 | 1275.6678  | 982.53312  | 273.61072 |
| 903.34 | 11784.04379 | 3045.57616 | 484.39488  | 123.02653 | 1871.69971 | 1304.70336 | 307.45524 |
| 905.42 | 14725.25728 | 3800.33218 | 654.68467  | 116.84409 | 3028.69779 | 2010.1166  | 316.0905  |
| 907.49 | 18177.3903  | 4604.8391  | 804.10415  | 163.74593 | 4695.35621 | 2757.7273  | 339.51581 |
| 909.56 | 21351.78993 | 5336.03521 | 959.62678  | 157.09306 | 6418.70253 | 3187.48989 | 348.06132 |
| 911.63 | 23822.1366  | 5941.85881 | 1145.22606 | 131.90569 | 7545.43095 | 3427.35882 | 414.05557 |
| 913.7  | 24529.44405 | 6142.2482  | 1334.87544 | 150.53333 | 6627.23566 | 2843.28852 | 397.49132 |
| 915.77 | 22659.39272 | 6446.14167 | 1537.54841 | 159.32699 | 4672.81087 | 2229.23345 | 396.36089 |
| 917.84 | 18262.99635 | 5924.47753 | 1599.21843 | 141.29579 | 2735.18411 | 1517.14804 | 351.98907 |
| 919.9  | 13722.60204 | 5160.19407 | 1408.85898 | 152.77347 | 1524.38292 | 991.98673  | 391.03266 |
| 921.97 | 10530.55686 | 4555.22959 | 1320.44353 | 147.75869 | 1121.1015  | 727.70396  | 395.81327 |
| 924.04 | 8870.20792  | 3910.52238 | 1306.94556 | 181.57603 | 783.36739  | 576.25419  | 348.65142 |
| 926.1  | 8577.56895  | 3648.01075 | 1158.33854 | 166.20675 | 708.2081   | 706.59184  | 423.20015 |
| 928.16 | 9129.98707  | 3398.633   | 1104.59594 | 183.62683 | 771.98226  | 709.67136  | 368.77729 |
| 930.23 | 10428.476   | 3116.32741 | 1065.69123 | 135.14071 | 764.71112  | 696.44719  | 317.03351 |
| 932.29 | 12127.04953 | 3198.0323  | 870.5979   | 137.04994 | 974.74694  | 654.87378  | 355.28412 |
| 934.35 | 13924.05472 | 2912.68595 | 761.28941  | 150.98143 | 1301.10623 | 582.90556  | 307.50801 |
| 936.41 | 15022.172   | 2849.22667 | 718.73923  | 207.88043 | 1607.47175 | 687.49698  | 376.34838 |
| 938.47 | 14681.74846 | 2480.59276 | 644.92084  | 128.68113 | 1899.52631 | 775.60248  | 324.77824 |
| 940.53 | 13011.79785 | 1703.7225  | 437.80771  | 147.31527 | 1880.28603 | 546.1765   | 309.43578 |
| 942.59 | 10555.0006  | 1314.5542  | 313.37332  | 124.70044 | 1525.10035 | 500.17347  | 243.95686 |
| 944.64 | 8424.03713  | 989.02617  | 302.58927  | 64.41362  | 1142.65207 | 354.54786  | 242.97397 |
| 946.7  | 6974.92119  | 545.07668  | 235.395    | 128.02584 | 738.9573   | 487.25407  | 181.78486 |
| 948.75 | 5943.99987  | 446.6438   | 246.70057  | 51.78353  | 519.03218  | 273.24109  | 174.6859  |
| 950.81 | 5557.95359  | 355.60234  | 158.41181  | 88.26276  | 418.22333  | 186.45787  | 209.30797 |
| 952.86 | 5131.79611  | 226.80075  | 140.42577  | 94.38676  | 456.87163  | 143.81917  | 213.95004 |
| 954.91 | 5071.20784  | 101.09754  | 254.66613  | 73.07806  | 349.3159   | 197.23336  | 189.57777 |
| 956.96 | 5071.20255  | 63.41289   | 159.09036  | 87.25715  | 334.89147  | 23.61949   | 86.15662  |
| 959.01 | 5147.46065  | 189.77902  | 152.64401  | 48.84991  | 390.26776  | 144.88596  | 132.31956 |
| 961.06 | 5474.66257  | 113.35534  | 166.299    | 69.44848  | 398.11553  | 0          | 109.37136 |
| 963.11 | 5773.82205  | 328.37775  | 158.05611  | 52.99332  | 483.10453  | 113.93913  | 85.28668  |
| 965.16 | 5877.95286  | 333.18931  | 124.93961  | 61.09833  | 468.57     | 170.74919  | 71.711    |
| 967.21 | 6234.06875  | 342.15402  | 225.00047  | 88.05737  | 571.17593  | 144.49871  | 59.96167  |
| 969.26 | 6621.85014  | 397.6549   | 180.32971  | 59.50775  | 706.91567  | 325.25607  | 91.36176  |
| 971.3  | 6928.31079  | 504.09039  | 169.01824  | 77.41939  | 892.44255  | 373.10011  | 134.24058 |
| 973.35 | 7181.79778  | 688.85213  | 235.1748   | 27.10628  | 1034.07232 | 461.09348  | 65.59904  |
| 975.39 | 7262.32486  | 491.28307  | 339.93046  | 46.2193   | 1070.45388 | 504.29637  | 103.77451 |
| 977.43 | 7059.23914  | 568.66723  | 307.41215  | 78.09971  | 1132.90275 | 689.76896  | 137.77701 |
| 979.47 | 6857.22102  | 506.2448   | 326.71335  | 53.10484  | 1110.06781 | 773.57138  | 100.621   |
| 981.52 | 6522.28427  | 652.1857   | 401.89681  | 76.5953   | 1045.59789 | 644.76379  | 132.3239  |
| 983.56 | 6025.77596  | 666.61033  | 453.99123  | 82.61166  | 866.80852  | 730.40634  | 174.241   |
| 985.6  | 5670.37653  | 728.56546  | 486.01721  | 57.86506  | 734.01519  | 690.55916  | 192.73083 |
| 987.64 | 5400.76639  | 856.02887  | 477.99443  | 83.40144  | 679.533    | 687.28243  | 176.48668 |
| 989.67 | 5127.62597  | 1281.94059 | 691.94235  | 77.27813  | 628.67368  | 632.63628  | 215.86925 |

|         |            |            |            |           |           |            |           |
|---------|------------|------------|------------|-----------|-----------|------------|-----------|
| 991.71  | 4748.30235 | 1602.23678 | 897.88009  | 131.55368 | 626.74425 | 706.68086  | 161.90724 |
| 993.75  | 4358.80928 | 2248.85359 | 1158.82679 | 135.62355 | 660.04719 | 883.47633  | 212.96261 |
| 995.78  | 3916.8272  | 3212.72718 | 1543.80157 | 171.21096 | 578.54801 | 1080.08283 | 282.73262 |
| 997.82  | 3409.36985 | 3820.79371 | 1947.82358 | 195.6995  | 580.87397 | 1199.56051 | 404.24777 |
| 999.85  | 2590.45099 | 4304.98932 | 2165.91195 | 163.46697 | 594.9807  | 1326.96953 | 394.5363  |
| 1001.88 | 1926.75104 | 5017.25019 | 2536.0858  | 137.55735 | 497.81693 | 1386.37003 | 398.29242 |
| 1003.91 | 1508.61709 | 5859.51247 | 2744.36427 | 83.33778  | 415.32426 | 1060.82216 | 334.54236 |
| 1005.95 | 1258.39622 | 6597.71231 | 2841.76649 | 83.83324  | 340.43908 | 686.38607  | 286.97805 |
| 1007.98 | 1161.76886 | 7300.78587 | 2961.3116  | 90.0699   | 377.76245 | 613.12192  | 263.62317 |
| 1010.01 | 1064.41536 | 7453.66931 | 3036.01872 | 58.74159  | 397.56318 | 284.08984  | 250.16527 |
| 1012.03 | 929.34909  | 7086.29878 | 2923.90699 | 67.54078  | 354.77629 | 321.35     | 190.62307 |
| 1014.06 | 830.91445  | 6648.61044 | 2744.99554 | 66.83761  | 307.00218 | 234.92891  | 244.68047 |
| 1016.09 | 764.78505  | 6157.54046 | 2538.30351 | 75.00976  | 325.5084  | 169.83494  | 254.02216 |
| 1018.12 | 626.62935  | 5569.02497 | 2374.85002 | 56.10934  | 287.23168 | 191.05137  | 207.99812 |
| 1020.14 | 556.77904  | 5061.00015 | 2105.6542  | 78.85964  | 278.44378 | 157.56174  | 238.62317 |
| 1022.16 | 564.56313  | 4596.40215 | 2012.7352  | 100.32937 | 255.75309 | 98.34135   | 230.24554 |
| 1024.19 | 476.97314  | 4043.16713 | 1821.11214 | 116.92355 | 227.7717  | 119.37069  | 213.5458  |
| 1026.21 | 483.3283   | 3313.23124 | 1423.80415 | 101.70846 | 226.44965 | 118.65918  | 278.2037  |
| 1028.23 | 362.94506  | 2538.53063 | 1174.83037 | 90.07338  | 164.07609 | 155.23671  | 231.89882 |
| 1030.25 | 400.47016  | 1853.00148 | 968.20993  | 119.06884 | 155.27937 | 271.15394  | 215.64138 |
| 1032.27 | 340.21895  | 1302.57993 | 843.96196  | 134.74387 | 190.36292 | 186.46764  | 226.44068 |
| 1034.29 | 332.84045  | 1121.20213 | 729.1056   | 131.13775 | 234.63902 | 267.20052  | 191.97245 |
| 1036.31 | 436.31984  | 863.80426  | 738.65997  | 132.94175 | 269.42727 | 341.36886  | 249.91171 |
| 1038.33 | 441.31215  | 833.32244  | 760.64421  | 129.5055  | 157.38614 | 240.95529  | 226.9342  |
| 1040.35 | 480.47136  | 784.68952  | 570.07745  | 118.16672 | 197.51144 | 327.93317  | 212.04734 |
| 1042.36 | 392.7834   | 400.83225  | 479.97883  | 140.59224 | 136.14108 | 174.24873  | 247.25782 |
| 1044.38 | 296.23146  | 411.66211  | 417.36746  | 103.77199 | 155.28667 | 154.83332  | 210.57222 |
| 1046.39 | 246.79935  | 101.08251  | 317.26219  | 57.68606  | 38.63611  | 108.61681  | 169.3289  |
| 1048.41 | 287.14223  | 201.98443  | 169.67743  | 77.97441  | 134.88608 | 46.53533   | 212.19948 |
| 1050.42 | 351.92201  | 89.37093   | 220.5947   | 98.28842  | 158.74698 | 91.54981   | 187.85729 |
| 1052.43 | 434.13901  | 235.31669  | 129.01757  | 83.28281  | 238.60553 | 101.67087  | 202.97552 |
| 1054.44 | 580.46256  | 369.01314  | 203.95131  | 83.61316  | 251.85709 | 219.94075  | 212.22827 |
| 1056.45 | 696.22767  | 597.70998  | 214.43956  | 109.26959 | 365.23572 | 227.42929  | 267.29027 |
| 1058.46 | 602.42954  | 832.66156  | 307.53431  | 110.91133 | 407.8136  | 137.18678  | 185.83612 |
| 1060.47 | 569.72298  | 1137.04584 | 285.29169  | 131.85584 | 455.66296 | 192.24112  | 201.20477 |
| 1062.48 | 405.75526  | 1094.03464 | 353.73706  | 86.07938  | 437.85446 | 170.63355  | 188.06945 |
| 1064.48 | 286.83428  | 887.79975  | 232.87216  | 98.54348  | 456.78842 | 203.39663  | 214.77044 |
| 1066.49 | 219.93473  | 494.51296  | 343.66911  | 78.87643  | 462.1956  | 182.56285  | 208.6489  |
| 1068.49 | 51.36972   | 559.34399  | 179.09678  | 67.36909  | 432.46978 | 97.15158   | 193.04575 |
| 1070.5  | 136.4602   | 505.41757  | 287.09133  | 83.64878  | 358.66785 | 189.17737  | 205.96864 |
| 1072.5  | 269.87536  | 443.79069  | 186.6072   | 70.35044  | 426.51076 | 329.68416  | 199.75921 |
| 1074.5  | 493.96241  | 499.47123  | 207.57458  | 72.11009  | 490.38648 | 226.70841  | 214.42592 |
| 1076.51 | 527.07435  | 319.44181  | 298.93895  | 40.90357  | 476.34722 | 373.27256  | 200.31098 |
| 1078.51 | 578.89403  | 436.63815  | 194.65268  | 78.71244  | 455.1069  | 366.37697  | 213.0897  |
| 1080.51 | 825.76644  | 341.0205   | 121.63986  | 86.53643  | 445.04305 | 394.01952  | 261.4378  |
| 1082.51 | 987.02986  | 312.52673  | 194.83667  | 49.71162  | 484.19736 | 330.1948   | 240.03083 |
| 1084.51 | 1287.68571 | 285.1106   | 203.22063  | 63.24068  | 518.61061 | 451.89642  | 194.20905 |
| 1086.5  | 1544.73482 | 302.75316  | 219.78124  | 88.14093  | 570.6521  | 554.10425  | 226.6448  |
| 1088.5  | 1902.17801 | 363.47376  | 147.51664  | 70.4389   | 630.35244 | 462.79805  | 245.01106 |
| 1090.5  | 2078.68275 | 352.32296  | 269.427    | 91.49374  | 613.73722 | 505.9576   | 256.6468  |
| 1092.49 | 2395.91654 | 522.35821  | 196.54341  | 83.00427  | 708.16082 | 685.56264  | 215.55659 |
| 1094.49 | 2814.21352 | 614.6483   | 273.87931  | 87.66722  | 677.30639 | 622.5929   | 224.07647 |
| 1096.48 | 3233.57451 | 796.20662  | 224.45945  | 108.84755 | 716.51875 | 701.02813  | 170.87552 |
| 1098.47 | 3634.667   | 1020.96864 | 377.28919  | 67.57632  | 770.13875 | 679.84805  | 209.62224 |
| 1100.46 | 4092.15847 | 1111.85747 | 401.374    | 84.87608  | 740.50264 | 857.03239  | 218.98672 |
| 1102.45 | 4473.04973 | 1473.7961  | 552.70109  | 77.11018  | 733.61056 | 720.5609   | 193.97241 |

|         |             |             |            |           |            |            |           |
|---------|-------------|-------------|------------|-----------|------------|------------|-----------|
| 1104.45 | 4852.00827  | 1559.7075   | 553.24941  | 115.64354 | 708.12439  | 934.4133   | 192.24899 |
| 1106.43 | 5099.03491  | 1843.51461  | 649.9979   | 90.51141  | 784.70106  | 863.56933  | 208.82016 |
| 1108.42 | 5405.79714  | 2126.14042  | 644.92549  | 107.07517 | 856.32757  | 933.00873  | 170.02364 |
| 1110.41 | 5597.96242  | 2470.50787  | 919.01112  | 117.36113 | 913.32127  | 1048.71122 | 218.53058 |
| 1112.4  | 5805.19826  | 2895.53994  | 949.2337   | 133.05471 | 1047.66408 | 1192.65654 | 233.68044 |
| 1114.38 | 6052.8388   | 3511.15959  | 1115.57217 | 151.17368 | 1274.00296 | 1298.82443 | 266.47897 |
| 1116.37 | 5934.88486  | 4062.28977  | 1317.00545 | 162.39382 | 1339.31803 | 1289.19462 | 208.59759 |
| 1118.35 | 6167.33726  | 4928.85346  | 1633.51248 | 203.38068 | 1397.58941 | 1489.74684 | 310.03886 |
| 1120.34 | 6173.53014  | 5762.77362  | 1930.07219 | 252.79018 | 1424.46385 | 1513.46083 | 309.80539 |
| 1122.32 | 6182.79766  | 6235.97321  | 2220.6635  | 270.27773 | 1301.92148 | 1505.31632 | 332.89654 |
| 1124.3  | 6296.47396  | 6910.37519  | 2606.26534 | 308.16539 | 1340.60907 | 1555.29305 | 353.64182 |
| 1126.28 | 6390.55988  | 7025.90253  | 2664.85664 | 317.44186 | 1205.84006 | 1712.37074 | 412.70079 |
| 1128.26 | 6616.72288  | 7018.47819  | 2567.41633 | 418.76251 | 1265.26122 | 1768.52914 | 463.39776 |
| 1130.24 | 6984.29712  | 6695.02513  | 2399.92334 | 401.44938 | 1357.51928 | 2003.74798 | 533.05586 |
| 1132.22 | 7324.95008  | 6563.46633  | 2256.3566  | 412.15786 | 1438.26096 | 2042.00699 | 523.3315  |
| 1134.2  | 7680.34926  | 6293.72473  | 2102.69504 | 442.5433  | 1423.79965 | 2210.2859  | 571.21439 |
| 1136.18 | 7883.16212  | 5856.72331  | 2035.91758 | 460.26109 | 1531.11541 | 1996.56445 | 533.36093 |
| 1138.15 | 8072.72283  | 5579.38502  | 1858.00315 | 464.29992 | 1505.85495 | 1937.82238 | 560.42747 |
| 1140.13 | 8152.36554  | 5016.63284  | 1692.93069 | 432.31518 | 1475.665   | 1838.03942 | 506.07039 |
| 1142.1  | 8205.75772  | 4929.38972  | 1656.67912 | 404.29557 | 1416.52562 | 1732.19529 | 476.94603 |
| 1144.08 | 8402.23353  | 4949.57862  | 1511.22737 | 435.22979 | 1478.75019 | 1764.26974 | 496.71074 |
| 1146.05 | 8596.46045  | 4982.12252  | 1476.55437 | 405.77323 | 1476.65209 | 1614.2425  | 451.02079 |
| 1148.02 | 8917.10597  | 5315.94438  | 1451.63906 | 316.58124 | 1602.21139 | 1588.09331 | 422.53236 |
| 1149.99 | 9395.83757  | 5347.96715  | 1459.46034 | 283.64255 | 1621.74146 | 1544.80189 | 385.56755 |
| 1151.96 | 10242.32274 | 5882.1138   | 1574.99717 | 246.61251 | 1857.88903 | 1544.34798 | 410.44783 |
| 1153.93 | 11408.89562 | 6144.3073   | 1604.22846 | 228.47985 | 2123.30083 | 1545.71132 | 390.1597  |
| 1155.9  | 13200.89037 | 6310.4706   | 1516.13315 | 160.56658 | 2441.62356 | 1624.87164 | 335.02242 |
| 1157.87 | 15605.64113 | 6734.52668  | 1578.69016 | 172.52773 | 2856.17062 | 1734.80868 | 281.35401 |
| 1159.84 | 18789.8154  | 7414.39849  | 1508.87842 | 116.34346 | 3448.58874 | 1791.50216 | 276.13725 |
| 1161.81 | 22972.74732 | 8404.00899  | 1637.67686 | 79.65448  | 4315.52462 | 2115.93182 | 246.01877 |
| 1163.77 | 27574.77104 | 9448.28116  | 1759.06442 | 109.75842 | 5102.29166 | 2598.0774  | 324.64263 |
| 1165.74 | 31849.88738 | 10732.13796 | 1957.02001 | 94.28893  | 5897.86991 | 2950.91862 | 279.6514  |
| 1167.7  | 34850.76383 | 11829.50234 | 2084.52257 | 99.20908  | 6563.90609 | 3383.43524 | 276.35077 |
| 1169.66 | 36692.06786 | 12244.29727 | 2131.55103 | 80.81209  | 7299.38026 | 3805.60696 | 251.0441  |
| 1171.63 | 36594.13363 | 12457.44572 | 2207.08431 | 107.05334 | 7478.93914 | 4041.41355 | 228.69889 |
| 1173.59 | 35492.62863 | 12018.87065 | 2007.10135 | 78.22373  | 7404.22944 | 4070.83471 | 186.94771 |
| 1175.55 | 33674.887   | 10923.49502 | 1713.58107 | 112.60724 | 7323.89789 | 4328.8502  | 216.42231 |
| 1177.51 | 31457.90956 | 9510.24179  | 1487.50241 | 122.49106 | 7017.59121 | 4069.43974 | 209.42206 |
| 1179.47 | 28911.69713 | 8224.03393  | 1285.84428 | 101.81969 | 6431.28946 | 3519.58307 | 244.9127  |
| 1181.43 | 26289.25053 | 6753.7944   | 1047.58563 | 110.19863 | 5658.97268 | 2920.25992 | 201.1933  |
| 1183.38 | 23378.9039  | 5442.44617  | 853.70537  | 57.22846  | 4971.62093 | 2231.45002 | 211.22819 |
| 1185.34 | 20779.65807 | 4348.91219  | 754.18245  | 89.16901  | 4312.21427 | 1611.13312 | 144.31537 |
| 1187.3  | 17956.84718 | 3543.11544  | 663.99578  | 75.62507  | 3698.06608 | 1407.28894 | 138.41942 |
| 1189.25 | 15598.13872 | 2916.97887  | 467.1243   | 69.20032  | 2945.15641 | 1173.89722 | 90.17433  |
| 1191.21 | 13124.86684 | 2215.42545  | 324.54693  | 54.83794  | 2183.46533 | 863.93768  | 141.8837  |
| 1193.16 | 10688.36569 | 1462.37815  | 266.24209  | 40.15463  | 1567.63955 | 527.39008  | 108.18943 |
| 1195.11 | 8606.30276  | 930.75991   | 323.15428  | 52.11303  | 1104.99246 | 452.23413  | 133.73627 |
| 1197.06 | 6988.67886  | 603.49372   | 299.21157  | 59.36092  | 678.17078  | 280.44958  | 117.83981 |
| 1199.02 | 5593.16147  | 531.50169   | 244.30826  | 61.22644  | 541.82122  | 371.01609  | 115.15217 |
| 1200.97 | 4361.75142  | 108.62885   | 146.3103   | 34.38185  | 307.91894  | 172.87928  | 135.99594 |
| 1202.92 | 3778.78285  | 174.66156   | 224.07583  | 75.84278  | 304.43276  | 200.98206  | 170.36429 |
| 1204.86 | 3422.58992  | 108.49525   | 106.49445  | 74.97899  | 210.33392  | 161.26639  | 130.58682 |
| 1206.81 | 3104.50677  | 314.10789   | 97.45604   | 62.49775  | 178.26294  | 237.66208  | 144.66139 |
| 1208.76 | 3315.53422  | 154.58657   | 71.89788   | 70.11085  | 113.53353  | 189.10259  | 143.92251 |
| 1210.71 | 3685.00643  | 428.04504   | 129.80831  | 82.53962  | 106.46722  | 120.49537  | 120.04071 |
| 1212.65 | 4354.92421  | 461.68765   | 159.23694  | 78.84521  | 98.0628    | 28.74042   | 190.35592 |

|         |             |            |            |           |            |            |           |
|---------|-------------|------------|------------|-----------|------------|------------|-----------|
| 1214.6  | 4894.95505  | 766.69982  | 246.27144  | 99.42358  | 251.32988  | 184.75775  | 182.54512 |
| 1216.54 | 5049.43309  | 1014.2347  | 277.02576  | 110.67365 | 284.95597  | 104.52423  | 148.95277 |
| 1218.48 | 4789.69249  | 1012.42447 | 474.60528  | 95.9908   | 269.96667  | 61.01097   | 184.92443 |
| 1220.43 | 4261.0674   | 1348.40118 | 600.09478  | 112.09458 | 300.05771  | 152.21557  | 167.14154 |
| 1222.37 | 3615.55863  | 1949.29673 | 802.57867  | 129.03424 | 324.26213  | 376.17948  | 219.61986 |
| 1224.31 | 2713.167    | 2209.243   | 836.14136  | 123.51592 | 331.61579  | 490.95148  | 263.71029 |
| 1226.25 | 1891.89333  | 3062.37188 | 1151.86726 | 154.90043 | 440.82294  | 593.5782   | 352.76333 |
| 1228.19 | 1179.07178  | 3768.81528 | 1556.8408  | 186.86955 | 350.25603  | 826.10624  | 356.12775 |
| 1230.13 | 754.70315   | 4611.70508 | 1874.14637 | 211.09635 | 398.28442  | 1134.58223 | 477.48314 |
| 1232.06 | 369.1215    | 5433.17317 | 2201.8684  | 256.58648 | 284.94484  | 1297.05277 | 511.84049 |
| 1234    | 286.32438   | 6148.35145 | 2446.0913  | 341.01213 | 354.93937  | 1349.56449 | 619.21027 |
| 1235.94 | 278.31101   | 6764.37182 | 2553.89947 | 378.71208 | 301.64016  | 1527.164   | 670.93626 |
| 1237.87 | 325.7524    | 7213.36615 | 2680.37733 | 432.02516 | 322.7532   | 1468.89792 | 725.36225 |
| 1239.81 | 532.99165   | 7184.46635 | 2578.6093  | 461.95682 | 439.32052  | 1409.81285 | 720.16535 |
| 1241.74 | 722.37532   | 6708.80431 | 2450.67977 | 428.17922 | 450.71931  | 1374.95541 | 741.02268 |
| 1243.67 | 919.58063   | 6170.51192 | 2195.67318 | 492.03114 | 447.6571   | 1299.37223 | 725.94469 |
| 1245.6  | 911.94585   | 5405.72107 | 1975.67393 | 480.51806 | 460.17126  | 1067.10991 | 681.6085  |
| 1247.54 | 892.80754   | 4778.56366 | 1764.76642 | 490.31213 | 434.96253  | 906.21506  | 683.02456 |
| 1249.47 | 875.49969   | 4540.17158 | 1642.03509 | 476.75214 | 509.06118  | 1057.73431 | 700.86998 |
| 1251.4  | 905.35392   | 3975.67672 | 1428.56432 | 448.17689 | 517.82807  | 928.71427  | 699.82188 |
| 1253.32 | 839.36555   | 3618.21097 | 1257.43855 | 481.25853 | 543.28525  | 725.20156  | 705.89072 |
| 1255.25 | 514.19311   | 3253.90623 | 1079.74218 | 452.33586 | 472.44956  | 879.24278  | 683.08693 |
| 1257.18 | 352.82515   | 2867.89439 | 999.55962  | 441.41436 | 415.66483  | 683.88455  | 637.75431 |
| 1259.11 | 250.24596   | 2596.30734 | 862.97529  | 407.83281 | 354.93737  | 684.17349  | 649.56998 |
| 1261.03 | 182.77546   | 2132.27697 | 753.07359  | 405.5967  | 327.2715   | 583.15622  | 629.21104 |
| 1262.96 | 194.74018   | 1873.93519 | 648.93895  | 388.37817 | 337.33866  | 641.87934  | 616.68795 |
| 1264.88 | 317.14274   | 1241.41387 | 524.65577  | 381.84934 | 247.14529  | 637.38948  | 561.67782 |
| 1266.8  | 477.99468   | 865.84491  | 377.30846  | 393.68236 | 208.03237  | 731.73324  | 577.85777 |
| 1268.73 | 773.978     | 531.3602   | 253.98141  | 436.54937 | 293.01253  | 886.95725  | 610.23824 |
| 1270.65 | 1071.10527  | 229.08847  | 216.7407   | 461.78917 | 341.43835  | 966.10811  | 644.82966 |
| 1272.57 | 1627.05013  | 347.09983  | 280.64082  | 496.74056 | 344.9988   | 1083.23245 | 678.64245 |
| 1274.49 | 2147.8194   | 621.52515  | 285.73944  | 509.40902 | 517.38393  | 1220.37687 | 695.35372 |
| 1276.41 | 2666.41992  | 917.50873  | 341.07231  | 604.13334 | 571.95132  | 1274.588   | 701.97388 |
| 1278.33 | 3390.85853  | 1250.11693 | 480.65141  | 668.25234 | 761.05366  | 1300.91244 | 803.51337 |
| 1280.24 | 4394.47539  | 1812.41499 | 732.45543  | 674.43815 | 857.70318  | 1408.39682 | 800.31593 |
| 1282.16 | 5438.94402  | 2238.46816 | 754.46281  | 717.69624 | 1013.24277 | 1552.08773 | 817.72534 |
| 1284.08 | 6774.60458  | 2987.34169 | 786.65198  | 705.03208 | 1169.68068 | 1598.03182 | 789.08536 |
| 1285.99 | 8047.4639   | 3545.10083 | 1007.00136 | 690.45115 | 1373.02516 | 1707.27567 | 773.07306 |
| 1287.91 | 9500.52882  | 4525.81081 | 1367.48939 | 655.95891 | 1473.95111 | 1728.86592 | 726.69889 |
| 1289.82 | 10756.80617 | 5390.5369  | 1503.09449 | 645.56083 | 1619.13345 | 1879.84917 | 727.30661 |
| 1291.73 | 11518.30281 | 6480.34432 | 1896.79509 | 662.59572 | 1753.24708 | 1965.27204 | 704.90663 |
| 1293.65 | 11871.69221 | 7372.29834 | 2074.56962 | 606.73572 | 1788.63357 | 2011.18115 | 833.50938 |
| 1295.56 | 11495.31456 | 8112.46419 | 2332.39651 | 600.65297 | 1774.63449 | 1993.62311 | 816.79197 |
| 1297.47 | 10650.17669 | 8140.90712 | 2416.25419 | 612.68626 | 1539.25809 | 1891.64453 | 809.09814 |
| 1299.38 | 9402.28544  | 8186.69239 | 2178.12108 | 577.17441 | 1350.51262 | 1778.29203 | 842.10499 |
| 1301.29 | 8048.31431  | 8039.88523 | 2319.97562 | 537.45621 | 1217.07296 | 1667.61223 | 819.48962 |
| 1303.2  | 6324.60346  | 7820.55089 | 2214.79623 | 520.87047 | 977.94737  | 1245.65173 | 784.26245 |
| 1305.1  | 4869.49307  | 7374.75462 | 2173.56135 | 444.756   | 689.47742  | 1139.45716 | 768.10057 |
| 1307.01 | 3687.98998  | 7345.56167 | 2198.24939 | 435.11827 | 607.00461  | 1082.07513 | 703.34775 |
| 1308.92 | 2608.10102  | 6792.03728 | 2071.83879 | 334.29607 | 437.1993   | 739.55225  | 655.68107 |
| 1310.82 | 1902.83302  | 6419.24669 | 2089.30798 | 274.96155 | 300.72731  | 603.93514  | 575.77763 |
| 1312.73 | 1564.85949  | 6143.25517 | 2033.63539 | 222.12018 | 257.58488  | 463.27041  | 475.9812  |
| 1314.63 | 1368.52059  | 5847.12794 | 2013.79944 | 208.44409 | 344.77101  | 410.60468  | 477.30218 |
| 1316.53 | 1329.48984  | 5345.93027 | 2019.77857 | 164.60442 | 330.28923  | 234.98452  | 429.08423 |
| 1318.44 | 1653.77406  | 4968.72739 | 1864.5512  | 119.93875 | 507.14414  | 214.45606  | 358.67093 |
| 1320.34 | 2063.04676  | 4625.58455 | 1727.09575 | 86.7768   | 462.342    | 87.04032   | 344.40566 |

|         |             |             |            |           |            |            |           |
|---------|-------------|-------------|------------|-----------|------------|------------|-----------|
| 1322.24 | 2608.98141  | 3947.567    | 1559.39067 | 111.10207 | 642.55182  | 240.74085  | 369.96304 |
| 1324.14 | 3543.9182   | 3349.73998  | 1395.41438 | 89.56458  | 840.77211  | 286.59467  | 283.68259 |
| 1326.04 | 4459.86395  | 2900.16874  | 1123.1453  | 91.13807  | 940.66289  | 195.61171  | 248.90229 |
| 1327.93 | 5607.82549  | 2294.91853  | 953.56187  | 52.79511  | 1097.88185 | 520.76868  | 233.29145 |
| 1329.83 | 6672.47631  | 1952.0546   | 855.64251  | 77.17295  | 1434.75323 | 687.03228  | 287.18449 |
| 1331.73 | 7703.82325  | 1630.64219  | 787.36565  | 49.92228  | 1654.60126 | 761.36919  | 285.91485 |
| 1333.63 | 8210.87313  | 1426.74654  | 706.70973  | 34.03075  | 1859.41683 | 907.74611  | 225.81339 |
| 1335.52 | 8036.29944  | 1124.43291  | 537.65316  | 92.83394  | 1962.52417 | 1052.12971 | 255.87473 |
| 1337.41 | 7912.44236  | 578.76654   | 457.17438  | 98.68834  | 2149.58084 | 1172.4867  | 271.75952 |
| 1339.31 | 7650.97538  | 363.81266   | 450.2518   | 125.28116 | 2240.2444  | 1430.78376 | 234.1266  |
| 1341.2  | 7700.57199  | 443.56368   | 332.86301  | 107.62814 | 2379.83909 | 1600.98757 | 288.96656 |
| 1343.09 | 7963.23903  | 558.01876   | 409.98453  | 112.73771 | 2566.3558  | 1735.06483 | 281.60229 |
| 1344.98 | 8488.64998  | 322.15194   | 264.55874  | 116.27991 | 2767.11875 | 1763.98222 | 309.35438 |
| 1346.87 | 9131.14502  | 399.86995   | 194.52209  | 124.58322 | 2858.78551 | 1722.70644 | 256.20788 |
| 1348.76 | 10085.39764 | 327.10299   | 173.79525  | 95.96633  | 2978.01363 | 1659.20416 | 221.14455 |
| 1350.65 | 11335.41466 | 497.77354   | 158.31099  | 114.74304 | 2897.12736 | 1589.44208 | 245.14433 |
| 1352.54 | 13077.86959 | 672.82556   | 165.02253  | 91.55676  | 2940.78424 | 1517.38689 | 236.52006 |
| 1354.43 | 15099.76925 | 904.15671   | 190.90972  | 124.37403 | 2994.97518 | 1345.00527 | 189.5831  |
| 1356.32 | 17330.12047 | 1259.5982   | 304.97638  | 63.49263  | 2991.02439 | 1234.26392 | 166.97718 |
| 1358.2  | 19449.93008 | 1637.97978  | 443.23989  | 44.53386  | 3157.25612 | 1317.12952 | 173.01352 |
| 1360.09 | 21181.87158 | 2041.13121  | 511.68755  | 112.12811 | 3164.32792 | 1362.56875 | 158.33843 |
| 1361.97 | 22117.61847 | 2449.88224  | 702.3052   | 78.58917  | 3099.56402 | 1305.54832 | 145.26643 |
| 1363.85 | 22035.84423 | 2975.06262  | 929.0786   | 49.22401  | 2955.95532 | 1428.0349  | 121.11414 |
| 1365.74 | 21143.88904 | 3588.50212  | 1081.99353 | 52.67618  | 2709.82604 | 1389.99519 | 126.86755 |
| 1367.62 | 19668.42638 | 4228.03048  | 1346.03573 | 79.27072  | 2526.50041 | 1371.39587 | 140.18298 |
| 1369.5  | 18284.79643 | 5053.47746  | 1651.19097 | 93.01281  | 2411.96933 | 1391.20363 | 146.38686 |
| 1371.38 | 17237.33934 | 6183.67281  | 2034.44503 | 79.57712  | 2268.89036 | 1423.38515 | 110.47519 |
| 1373.26 | 16606.72861 | 7372.44629  | 2467.78365 | 93.30496  | 2209.58773 | 1326.90714 | 107.11324 |
| 1375.14 | 16649.3044  | 9072.62765  | 3098.1926  | 87.54036  | 2322.71899 | 1417.73628 | 188.97043 |
| 1377.02 | 17238.40688 | 10412.04665 | 3534.65766 | 77.62457  | 2505.27505 | 1520.83924 | 158.3871  |
| 1378.9  | 18163.37621 | 11687.53304 | 4068.16457 | 55.23177  | 2804.2468  | 1649.18273 | 154.03777 |
| 1380.77 | 19469.55255 | 12674.91658 | 4232.6991  | 112.03957 | 3078.29179 | 1800.73343 | 162.93246 |
| 1382.65 | 20660.60939 | 12960.02701 | 4662.24702 | 84.07141  | 3519.73427 | 1897.45803 | 177.41678 |
| 1384.52 | 21777.8869  | 12878.6941  | 4708.79409 | 112.0079  | 3846.23179 | 2003.32322 | 234.17164 |
| 1386.4  | 22226.72525 | 12100.7476  | 4631.32607 | 97.53057  | 4027.77524 | 2080.29569 | 219.87929 |
| 1388.27 | 21622.13126 | 11219.01727 | 4351.82873 | 82.9779   | 3899.02219 | 2295.34211 | 214.22103 |
| 1390.14 | 19831.44509 | 10024.33285 | 3943.28783 | 96.6864   | 3584.6302  | 2477.42919 | 328.2111  |
| 1392.02 | 17215.00691 | 8469.5241   | 3574.68913 | 94.99409  | 3022.59016 | 2549.52361 | 312.5305  |
| 1393.89 | 13892.82354 | 6841.42078  | 3015.01839 | 71.56822  | 2344.89297 | 2232.59206 | 305.1924  |
| 1395.76 | 10769.90182 | 5637.85264  | 2534.26138 | 104.073   | 1679.52952 | 1848.60123 | 264.87564 |
| 1397.63 | 7886.24858  | 4197.64944  | 2159.40387 | 88.52484  | 1279.49071 | 1383.5178  | 285.92544 |
| 1399.5  | 5939.20397  | 3293.64093  | 1753.4316  | 101.26647 | 927.76744  | 1241.30847 | 250.68712 |
| 1401.37 | 4509.10816  | 2539.65686  | 1477.33036 | 84.97316  | 703.01726  | 832.93992  | 264.83815 |
| 1403.23 | 3180.96798  | 1791.52699  | 1121.0859  | 103.31474 | 547.564    | 641.37884  | 269.72111 |
| 1405.1  | 2431.45693  | 1382.08107  | 913.68398  | 90.62827  | 413.72758  | 382.59192  | 222.67654 |
| 1406.97 | 1724.2485   | 885.14886   | 701.11037  | 67.91091  | 356.15496  | 394.54584  | 224.04286 |
| 1408.83 | 1121.68286  | 593.56011   | 515.35083  | 80.15809  | 376.49146  | 379.20568  | 228.49127 |
| 1410.7  | 599.43349   | 336.14244   | 454.39113  | 77.03927  | 293.38286  | 150.53558  | 182.35905 |
| 1412.56 | 355.50721   | 232.64769   | 390.21696  | 96.22729  | 281.47451  | 107.49777  | 230.31601 |
| 1414.42 | 277.23702   | 142.84556   | 293.81312  | 69.06545  | 318.74815  | 149.06251  | 181.69977 |
| 1416.28 | 214.29147   | 25.56507    | 248.15213  | 55.55976  | 164.52243  | 115.22527  | 197.51376 |
| 1418.15 | 467.34459   | 253.73055   | 198.17989  | 86.38984  | 198.45129  | 177.99014  | 206.76257 |
| 1420.01 | 728.07852   | 397.40867   | 94.83298   | 85.24761  | 191.53045  | 165.38333  | 213.45128 |
| 1421.87 | 1354.84066  | 612.717     | 154.05864  | 73.82693  | 316.42931  | 232.42806  | 221.58507 |
| 1423.73 | 1846.64173  | 844.76637   | 200.85619  | 83.82209  | 333.82457  | 387.14957  | 203.50232 |
| 1425.58 | 2207.49248  | 1054.5898   | 243.2533   | 110.93242 | 320.39503  | 441.54894  | 187.54093 |

|         |            |            |            |           |            |            |            |
|---------|------------|------------|------------|-----------|------------|------------|------------|
| 1427.44 | 2671.40361 | 1404.21547 | 315.28722  | 123.19158 | 389.82083  | 640.62588  | 269.03905  |
| 1429.3  | 3220.71921 | 1565.6715  | 469.98783  | 91.62355  | 426.45073  | 739.38003  | 218.33577  |
| 1431.15 | 3672.11665 | 1885.986   | 468.35245  | 137.57681 | 454.29919  | 820.81102  | 250.43461  |
| 1433.01 | 4134.60667 | 2084.1871  | 586.37794  | 160.39788 | 535.71151  | 920.91848  | 313.33888  |
| 1434.86 | 4664.19999 | 2480.30289 | 686.06067  | 212.09289 | 696.69611  | 1139.70203 | 352.38358  |
| 1436.72 | 5186.57402 | 3015.36151 | 945.397    | 303.99374 | 1002.92204 | 1524.16132 | 410.23435  |
| 1438.57 | 5643.73948 | 3525.39107 | 1127.3833  | 321.09574 | 1165.72088 | 1741.29595 | 442.55457  |
| 1440.42 | 5972.37375 | 3922.41968 | 1374.01595 | 441.39422 | 1327.75748 | 1888.10558 | 555.00681  |
| 1442.28 | 6038.82092 | 4283.47546 | 1493.29131 | 490.21784 | 1433.69671 | 2182.58981 | 715.25347  |
| 1444.13 | 6247.75836 | 4858.58653 | 1704.20574 | 588.89524 | 1455.20344 | 2250.7483  | 754.2903   |
| 1445.98 | 6300.53014 | 5512.781   | 1794.75562 | 683.75508 | 1460.6092  | 2407.58065 | 801.77971  |
| 1447.83 | 6363.48033 | 5828.08698 | 2054.93731 | 734.12601 | 1394.57886 | 2374.08651 | 855.05078  |
| 1449.67 | 6370.61964 | 6188.5326  | 2147.74718 | 729.67003 | 1401.11062 | 2389.2655  | 880.4326   |
| 1451.52 | 6484.95881 | 6470.14597 | 2233.18159 | 740.04913 | 1296.20267 | 2372.11724 | 900.25425  |
| 1453.37 | 6624.17523 | 6486.95521 | 2295.23692 | 766.25862 | 1262.51989 | 2456.64138 | 917.17813  |
| 1455.22 | 6741.61297 | 6452.98843 | 2302.90953 | 796.62716 | 1220.39381 | 2390.83754 | 914.86666  |
| 1457.06 | 6966.28275 | 6258.27374 | 2258.1958  | 780.15007 | 1147.48929 | 2355.70535 | 892.98226  |
| 1458.91 | 7290.52863 | 5862.83927 | 2092.09208 | 758.48933 | 1167.4712  | 2469.24444 | 894.85401  |
| 1460.75 | 7671.02801 | 5572.71313 | 1926.59474 | 809.30695 | 1126.67104 | 2557.45443 | 1027.14431 |
| 1462.59 | 8041.12495 | 5343.92344 | 1796.70016 | 801.59823 | 1192.08697 | 2545.33496 | 1005.51558 |
| 1464.44 | 8334.1635  | 5455.49831 | 1733.4047  | 834.69184 | 1290.38362 | 2737.88565 | 1054.63024 |
| 1466.28 | 8484.82108 | 5078.46586 | 1591.70473 | 844.91643 | 1335.22558 | 2780.10614 | 1176.81737 |
| 1468.12 | 8771.44172 | 5106.85421 | 1563.59661 | 882.93398 | 1322.27746 | 2908.99606 | 1231.73937 |
| 1469.96 | 8851.70284 | 5049.69146 | 1463.07672 | 927.07315 | 1498.53718 | 3142.55503 | 1311.72534 |
| 1471.8  | 8738.28183 | 4807.00574 | 1431.14142 | 969.32927 | 1626.33601 | 3037.78268 | 1321.43768 |
| 1473.64 | 8314.1894  | 4592.82516 | 1323.78707 | 964.69765 | 1678.33855 | 2933.67864 | 1215.87213 |
| 1475.48 | 7620.76963 | 4222.17785 | 1146.01005 | 879.84029 | 1562.20939 | 2755.24255 | 1097.35779 |
| 1477.31 | 6708.69991 | 3672.09191 | 1015.80673 | 736.08583 | 1379.27979 | 2420.47403 | 906.22373  |
| 1479.15 | 5630.32431 | 3183.59545 | 861.17347  | 616.09627 | 1280.54769 | 2088.3727  | 749.79903  |
| 1480.99 | 4664.98687 | 2622.71661 | 904.10664  | 494.86692 | 1184.01101 | 1772.93821 | 577.74611  |
| 1482.82 | 3472.365   | 2112.48349 | 592.6026   | 412.39312 | 1022.33435 | 1387.17017 | 452.39403  |
| 1484.66 | 2597.46942 | 1566.92421 | 485.65773  | 315.67017 | 813.51563  | 1230.06822 | 403.07189  |
| 1486.49 | 1621.31086 | 1122.06688 | 499.26839  | 237.36007 | 580.21945  | 948.63199  | 340.1086   |
| 1488.32 | 1077.56673 | 875.93963  | 399.43072  | 179.12481 | 557.44258  | 774.86111  | 278.16502  |
| 1490.16 | 663.58107  | 572.57055  | 252.14073  | 156.95473 | 398.84152  | 547.7552   | 239.56637  |
| 1491.99 | 524.03124  | 540.98515  | 279.38556  | 126.50293 | 357.06567  | 418.3139   | 246.96876  |
| 1493.82 | 344.25381  | 436.13764  | 220.14146  | 104.41678 | 358.76311  | 345.53683  | 227.69376  |
| 1495.65 | 427.91393  | 203.92032  | 251.36318  | 82.66276  | 291.58232  | 302.42331  | 244.72801  |
| 1497.48 | 599.01281  | 226.20332  | 163.00735  | 113.86683 | 197.17208  | 228.96478  | 164.39078  |
| 1499.3  | 780.88414  | 182.92764  | 160.01998  | 38.65651  | 212.851    | 228.1248   | 196.66654  |
| 1501.13 | 857.52343  | 344.09614  | 124.37185  | 81.64995  | 229.27806  | 78.84395   | 213.20828  |
| 1502.96 | 766.58912  | 357.79098  | 214.05969  | 63.48438  | 178.78535  | 70.04021   | 210.66956  |
| 1504.79 | 698.40403  | 255.10896  | 162.12049  | 69.46556  | 210.37732  | 51.66828   | 193.03716  |
| 1506.61 | 475.28597  | 388.15601  | 134.5955   | 78.57502  | 222.39961  | 129.72312  | 194.96452  |
| 1508.44 | 382.87997  | 274.08839  | 219.55113  | 97.46772  | 317.5377   | 83.24732   | 199.77239  |
| 1510.26 | 206.49498  | 257.05938  | 129.0899   | 79.46837  | 304.81642  | 103.2998   | 188.78216  |
| 1512.08 | 376.10767  | 153.26493  | 293.31644  | 42.56392  | 382.59598  | 154.97447  | 179.98226  |
| 1513.91 | 482.70317  | 286.95055  | 180.37372  | 64.07753  | 478.23915  | 137.39214  | 161.02867  |
| 1515.73 | 774.26797  | 349.45291  | 333.3783   | 105.68325 | 635.77472  | 183.67985  | 188.57857  |
| 1517.55 | 985.78575  | 535.14619  | 346.46452  | 105.064   | 784.56025  | 228.97791  | 189.95786  |
| 1519.37 | 1116.9021  | 525.41713  | 342.7326   | 78.89525  | 859.6136   | 306.42132  | 188.82661  |
| 1521.19 | 1043.9287  | 589.5925   | 390.25075  | 54.17929  | 974.95115  | 262.12217  | 227.17905  |
| 1523.01 | 1149.51041 | 617.94259  | 427.05425  | 79.25476  | 1056.2555  | 288.16652  | 195.34361  |
| 1524.83 | 1436.29154 | 635.66263  | 551.16609  | 78.13983  | 1204.87589 | 296.60755  | 187.64799  |
| 1526.64 | 1725.24964 | 894.86986  | 540.60632  | 97.8555   | 1390.16153 | 437.46556  | 192.0871   |
| 1528.46 | 2235.36225 | 1340.60459 | 667.39499  | 76.75934  | 1686.79499 | 541.73055  | 209.32349  |



|         |             |            |            |           |            |            |           |
|---------|-------------|------------|------------|-----------|------------|------------|-----------|
| 1530.28 | 2572.60691  | 1509.90537 | 709.5521   | 96.20605  | 2051.1255  | 692.39236  | 186.68704 |
| 1532.09 | 2842.62782  | 1793.81074 | 776.09767  | 105.55415 | 2366.16893 | 713.44084  | 192.84101 |
| 1533.91 | 3063.40254  | 1809.35925 | 899.05173  | 86.16227  | 2584.27452 | 794.86585  | 166.44958 |
| 1535.72 | 3214.24193  | 2111.58945 | 836.43429  | 107.71512 | 2639.79148 | 758.65725  | 133.17764 |
| 1537.53 | 3245.12354  | 2544.53989 | 1032.26536 | 95.56418  | 2682.73571 | 722.80489  | 186.35853 |
| 1539.34 | 3205.69158  | 2858.24911 | 1035.56496 | 90.71951  | 2446.45644 | 642.29862  | 209.99543 |
| 1541.16 | 2966.25692  | 2800.75567 | 1106.35312 | 82.85412  | 2074.30288 | 530.12829  | 171.0925  |
| 1542.97 | 2756.7971   | 3290.0981  | 1178.64984 | 81.30621  | 1734.62425 | 459.28376  | 162.32052 |
| 1544.78 | 2488.95633  | 3461.31497 | 1134.47515 | 108.4154  | 1363.43645 | 252.75487  | 162.68525 |
| 1546.59 | 2205.04549  | 3710.4448  | 1212.84906 | 88.85666  | 1096.42204 | 274.53144  | 199.86102 |
| 1548.4  | 1968.70878  | 3936.52616 | 1341.79159 | 76.63022  | 823.93024  | 117.57253  | 173.19084 |
| 1550.2  | 1569.92375  | 4023.59759 | 1334.32275 | 114.73536 | 615.64359  | 120.80295  | 213.3514  |
| 1552.01 | 1503.33461  | 4254.69764 | 1402.46257 | 100.50854 | 523.91038  | 75.16875   | 194.02093 |
| 1553.82 | 1419.91889  | 4229.86486 | 1262.23107 | 103.61054 | 421.07289  | 102.63587  | 233.54416 |
| 1555.62 | 1407.65415  | 4082.13779 | 1212.64825 | 83.36316  | 337.13515  | 138.20847  | 217.5998  |
| 1557.43 | 1532.51791  | 4260.55498 | 1234.73413 | 75.75271  | 338.76626  | 151.91789  | 204.86554 |
| 1559.23 | 1752.82106  | 3907.15498 | 1147.50874 | 70.43356  | 366.63657  | 136.80842  | 222.01877 |
| 1561.03 | 2024.54113  | 3979.97634 | 1165.99209 | 84.73133  | 333.7509   | 233.93178  | 217.07035 |
| 1562.84 | 2353.32233  | 3767.05761 | 1089.20419 | 88.97799  | 256.11409  | 274.35318  | 180.364   |
| 1564.64 | 2789.14221  | 3830.43732 | 1090.16507 | 87.50613  | 286.73235  | 207.11311  | 154.90976 |
| 1566.44 | 3449.31163  | 3978.15404 | 1059.89474 | 96.64727  | 416.94982  | 371.21781  | 196.38556 |
| 1568.24 | 4229.14146  | 4295.2463  | 1181.41322 | 88.39907  | 544.44731  | 377.65895  | 172.80493 |
| 1570.04 | 5276.60926  | 4533.75266 | 1181.74053 | 70.08843  | 688.23694  | 556.42552  | 210.18195 |
| 1571.84 | 6838.02589  | 4581.71167 | 1145.89668 | 78.70808  | 951.65891  | 781.50449  | 211.86556 |
| 1573.64 | 8641.70222  | 4620.16186 | 1014.90169 | 94.59062  | 1406.04879 | 942.88284  | 232.87133 |
| 1575.44 | 10711.61581 | 4499.1418  | 1109.77558 | 63.40504  | 1873.40876 | 1264.54753 | 244.54807 |
| 1577.23 | 12934.07751 | 4314.69002 | 989.53837  | 78.15035  | 2459.40765 | 1743.48555 | 247.57695 |
| 1579.03 | 14837.73153 | 4209.84507 | 781.21006  | 81.16806  | 3120.38096 | 2165.68386 | 211.97103 |
| 1580.83 | 15657.2221  | 3912.64551 | 708.81069  | 83.13627  | 3660.66419 | 2657.12945 | 251.40864 |
| 1582.62 | 15632.1934  | 3582.12988 | 571.36026  | 74.73516  | 4131.59284 | 2924.80928 | 269.23468 |
| 1584.41 | 14598.28965 | 3154.33672 | 564.8788   | 119.31282 | 4279.50243 | 3089.71033 | 214.79233 |
| 1586.21 | 13283.82172 | 2512.30459 | 478.38631  | 65.5555   | 4210.39511 | 3041.81956 | 304.42237 |
| 1588    | 11722.76715 | 1914.07203 | 341.90281  | 72.80371  | 3778.60639 | 2568.12397 | 271.79868 |
| 1589.79 | 10250.43681 | 1524.6776  | 317.44798  | 96.07294  | 3128.80511 | 2143.61051 | 281.25879 |
| 1591.58 | 8950.80826  | 1190.15983 | 311.00843  | 105.71743 | 2359.99343 | 1716.26616 | 257.8044  |
| 1593.37 | 8061.85901  | 931.55728  | 296.53778  | 122.42094 | 1754.17353 | 1277.07789 | 291.10109 |
| 1595.16 | 7514.89996  | 743.90849  | 208.95807  | 91.19289  | 1280.34757 | 979.03269  | 238.14586 |
| 1596.95 | 7484.24196  | 583.25118  | 287.16381  | 78.7028   | 995.18439  | 770.11752  | 240.93254 |
| 1598.74 | 7632.19591  | 457.5928   | 167.05585  | 96.61856  | 840.68616  | 661.31935  | 218.45379 |
| 1600.53 | 8298.406    | 554.867    | 278.51073  | 92.61106  | 687.18831  | 603.62516  | 218.36764 |
| 1602.32 | 9613.84976  | 692.97675  | 114.42815  | 78.68094  | 708.02497  | 597.02193  | 196.9984  |
| 1604.1  | 11440.83809 | 1025.75866 | 142.68665  | 90.49308  | 812.52568  | 611.49662  | 184.67003 |
| 1605.89 | 14262.34851 | 1550.99255 | 211.20901  | 80.04873  | 921.68268  | 700.03622  | 202.37368 |
| 1607.67 | 17649.69191 | 2227.45808 | 208.95093  | 111.68083 | 1047.48666 | 889.62768  | 214.43486 |
| 1609.46 | 21636.17915 | 2891.93494 | 239.87351  | 105.05816 | 1438.59464 | 1083.258   | 202.17935 |
| 1611.24 | 25491.1211  | 3567.20281 | 376.94423  | 77.5063   | 1961.33024 | 1522.91413 | 191.26609 |
| 1613.02 | 28163.82865 | 4134.04136 | 364.1245   | 81.67683  | 2768.68379 | 1796.58306 | 206.02098 |
| 1614.8  | 28252.61266 | 4219.23028 | 351.3573   | 104.22483 | 3693.31227 | 2263.25175 | 173.43733 |
| 1616.58 | 25463.78401 | 3854.54924 | 350.56062  | 65.47396  | 4552.53932 | 2493.90719 | 224.17526 |
| 1618.36 | 20398.65357 | 2897.77792 | 344.62194  | 93.40826  | 5127.68858 | 2579.53633 | 162.22975 |
| 1620.14 | 14911.86555 | 2036.696   | 247.39796  | 77.02011  | 5126.0837  | 2289.12617 | 209.92846 |
| 1621.92 | 10175.73083 | 1302.08317 | 270.71289  | 102.96571 | 4626.38166 | 1851.66367 | 196.60105 |
| 1623.7  | 7055.22693  | 861.7191   | 162.38191  | 66.57167  | 3665.57278 | 1430.1358  | 193.91049 |
| 1625.48 | 4944.33141  | 452.38346  | 151.202    | 72.82463  | 2721.64737 | 954.52954  | 187.52026 |
| 1627.26 | 3511.68847  | 227.8525   | 123.99518  | 66.0525   | 1887.59573 | 764.83186  | 197.42785 |
| 1629.03 | 2622.60898  | 150.87383  | 160.61293  | 67.92187  | 1375.40818 | 522.02973  | 191.2983  |

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|---------|------------|-----------|-----------|-----------|------------|-----------|-----------|
| 1630.81 | 1952.40382 | 261.25631 | 126.94715 | 102.10745 | 1017.07504 | 385.11013 | 194.13051 |
| 1632.58 | 1515.7172  | 330.90093 | 146.91545 | 103.95799 | 805.91994  | 290.06003 | 194.25746 |
| 1634.36 | 1182.85998 | 491.75652 | 126.47467 | 84.81622  | 648.59979  | 241.86496 | 196.67945 |
| 1636.13 | 858.47637  | 718.79183 | 146.61283 | 88.35162  | 563.76924  | 218.47804 | 183.73072 |
| 1637.9  | 605.87723  | 837.93165 | 255.35739 | 64.90087  | 472.40979  | 147.82491 | 233.74605 |
| 1639.67 | 431.70356  | 888.05784 | 198.7671  | 86.13319  | 346.49554  | 139.81226 | 189.39463 |
| 1641.44 | 302.92238  | 925.04671 | 205.88857 | 70.72636  | 243.32975  | 91.3558   | 186.34465 |
| 1643.21 | 278.83311  | 910.77258 | 199.77788 | 109.35823 | 286.21654  | 122.38357 | 183.59846 |
| 1644.98 | 222.40623  | 730.10879 | 191.50236 | 84.37951  | 293.13183  | 126.85531 | 195.82604 |
| 1646.75 | 242.95097  | 611.92744 | 187.13385 | 96.80026  | 331.38821  | 97.75006  | 198.69844 |
| 1648.52 | 319.45098  | 547.06364 | 278.7612  | 81.96461  | 321.96803  | 134.06432 | 174.22062 |
| 1650.29 | 367.56349  | 340.27473 | 289.48742 | 105.21275 | 270.52174  | 103.82375 | 203.06466 |
| 1652.06 | 308.94944  | 177.25417 | 215.39428 | 106.88661 | 279.36835  | 154.06863 | 190.90409 |
| 1653.82 | 317.93813  | 266.71158 | 231.53844 | 60.98728  | 283.16418  | 193.86592 | 250.07938 |
| 1655.59 | 381.52972  | 201.43812 | 226.98033 | 64.17483  | 286.90254  | 124.28919 | 215.93179 |
| 1657.35 | 351.06143  | 294.27062 | 165.77764 | 90.78615  | 325.91356  | 111.40265 | 253.13423 |
| 1659.12 | 323.53831  | 265.11775 | 261.98721 | 96.50033  | 331.864    | 147.28903 | 224.02605 |
| 1660.88 | 276.96779  | 295.92278 | 291.68951 | 100.66136 | 409.42233  | 205.05475 | 236.27812 |
| 1662.64 | 317.36085  | 313.67531 | 276.95022 | 103.60924 | 330.92515  | 245.8155  | 241.56071 |
| 1664.4  | 283.73395  | 228.39888 | 195.80914 | 104.34674 | 313.04059  | 257.67324 | 204.87637 |
| 1666.17 | 293.4407   | 288.14388 | 165.28553 | 67.53655  | 397.77163  | 254.70115 | 230.55976 |
| 1667.93 | 303.8399   | 272.02174 | 222.41022 | 70.16757  | 382.4568   | 205.94048 | 244.27909 |
| 1669.69 | 338.62847  | 288.18093 | 205.23794 | 102.23623 | 369.43333  | 167.4012  | 212.03503 |
| 1671.44 | 336.84107  | 388.81349 | 241.82431 | 95.41205  | 390.70448  | 223.07916 | 207.82678 |
| 1673.2  | 306.51523  | 379.14852 | 297.23282 | 106.02488 | 396.94004  | 168.97146 | 230.98682 |
| 1674.96 | 298.35816  | 519.41183 | 219.52012 | 76.73446  | 383.14213  | 188.05445 | 234.51432 |
| 1676.72 | 396.41466  | 399.82984 | 212.71516 | 89.8607   | 368.64496  | 148.30506 | 228.74093 |
| 1678.47 | 431.40078  | 382.57463 | 215.84896 | 92.72734  | 327.11537  | 238.69321 | 202.66392 |
| 1680.23 | 443.69974  | 416.81059 | 236.9574  | 66.99007  | 369.8868   | 174.19772 | 210.94644 |
| 1681.98 | 417.69383  | 400.70136 | 201.07991 | 67.96872  | 367.29433  | 83.77099  | 195.91858 |
| 1683.74 | 455.76387  | 294.3961  | 245.25108 | 73.99084  | 348.33959  | 137.36393 | 206.2437  |
| 1685.49 | 528.95697  | 379.03593 | 262.51495 | 107.05805 | 331.02416  | 152.96223 | 235.25238 |
| 1687.24 | 506.98506  | 430.79656 | 294.90743 | 91.84358  | 411.01705  | 220.56482 | 212.27536 |
| 1689    | 603.88856  | 407.85434 | 241.4494  | 106.01354 | 341.3221   | 144.17768 | 193.97563 |
| 1690.75 | 565.7039   | 413.36557 | 273.13478 | 75.56556  | 344.27464  | 167.78698 | 179.34941 |
| 1692.5  | 622.12674  | 476.47568 | 174.95083 | 123.48991 | 310.21102  | 143.38943 | 179.06026 |
| 1694.25 | 658.84673  | 370.31698 | 252.86571 | 76.44789  | 413.46857  | 223.98282 | 188.43962 |
| 1696    | 689.88232  | 451.98375 | 243.86753 | 97.76072  | 439.0536   | 127.57581 | 238.82023 |
| 1697.75 | 751.9123   | 546.57436 | 230.93323 | 56.08689  | 400.97054  | 162.15595 | 200.20234 |

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