

Dispersion Report

Workspace: 72438-1RiempFSRU-5R

Study: Riempimento FSRU-ME4

Equipment Item: 5R Linee mandata pompe LNG Feed e collettore GNL durante riempimento

72438-1RiempFSRU-5R\Riempimento FSRU-ME4\5R Linee mandata pompe LNG Feed e collettore GNL durante riempimento

| | | |
|----------|---------------------|---|
| Material | GAS NATURALE | |
| East | 0 | m |
| North | 0 | m |

Scenario (Leak) : 70mm

72438-1RiempFSRU-5R\Riempimento FSRU-ME4\5R Linee mandata pompe LNG Feed e collettore GNL durante riempimento\70mm

| | |
|-------------------|---------------------|
| Material to track | GAS NATURALE |
|-------------------|---------------------|

Weather: Category 2/F

| | |
|--------------------------------|--|
| Wind speed [m/s] | 2 |
| Pasquill stability | F stable - night with moderate clouds and light/moderate wind |
| Atmospheric temperature [degC] | 25 |
| Relative humidity [fraction] | 0,75 |
| Solar radiation flux [kW/m2] | 0,5 |
| Mixing layer height [m] | 100 |

Observer Release Data and Observer Mass Data

| Observer number | Release type | Start time [s] | Start downwind distance [m] | Unit | Masses or mass rates | | | |
|-----------------|--------------|----------------|-----------------------------|------|----------------------|---------|---------------------|-------|
| | | | | | Released | Rainout | Pool vapour pick-up | Final |

| | | | | | | | |
|----|----------------|-------------|-----------|------|--------|---------|---------------|
| 1 | Continuou s | 0 | 0 | kg/s | 68,255 | 68,2008 | 0,054219 6 |
| 2 | Continuou s | 0,22 | -0,372439 | kg/s | 68,255 | 68,2008 | 20,9172 |
| 3 | Continuou s | 48,367 4 | -13,8221 | kg/s | 68,255 | 68,2008 | 53,881 |
| 4 | Continuou s | 83,669 8 | -16,3067 | kg/s | 68,255 | 68,2008 | 56,0555 |
| 5 | Continuou s | 117,96 4 | -18,081 | kg/s | 68,255 | 68,2008 | 57,641 |
| 6 | Continuou s | 151,27 2 | -19,457 | kg/s | 68,255 | 68,2008 | 58,7236 |
| 7 | Continuou s | 183,88 | -20,5773 | kg/s | 68,255 | 68,2008 | 56,9572 |
| 8 | Continuou s | 208,75 8 | -21,3305 | kg/s | 68,255 | 68,2008 | 47,3967 |
| 9 | Continuou s | 208,75 9 | -21,3305 | kg/s | 0 | 0 | 47,342 4 |
| 10 | Continuou s | 216,02 6 | -21,5408 | kg/s | 0 | 0 | 43,7545 |
| 11 | Continuou s | 222,08 7 | -21,7162 | kg/s | 0 | 0 | 40,6049 |
| 12 | Continuou s | 247,79 9 | -22,3722 | kg/s | 0 | 0 | 27,4115 |
| 13 | Continuou s | 299,38 1 | -22,5288 | kg/s | 0 | 0 | 13,7538 |
| 14 | Continuou s | 562,10 8 | -22,5288 | kg/s | 0 | 0 | 1,10182 |

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

| Observer number | Time [s] | Down wind distance [m] | C/Li ne heig ht [m] | C/Lin e conc [ppm] | Effecti ve width [m] | Effecti ve depth [m] | C/Line vapour temperature [degC] | C/Li ne liqui d fracti | Centr oid veloci ty [m/s] | C/Lin e cloud densi ty |
|-----------------|----------|------------------------|---------------------|--------------------|----------------------|----------------------|----------------------------------|------------------------|---------------------------|------------------------|
|-----------------|----------|------------------------|---------------------|--------------------|----------------------|----------------------|----------------------------------|------------------------|---------------------------|------------------------|

| | | | | | | | | on |] | [kg/ m3] |
|---|------|--------------|---|----------------|---------------|---------------|----------|----|-------------|-------------|
| 1 | 0 | 0 | 0 | 999.20 6,39 | 0,0595 091 | 0,0285 531 | -160,196 | 0 | 15,716 7 | 2,0328 4 |
| 1 | 0,01 | 0,11350 3 | 0 | 902.92 7,81 | 0,0676 97 | 0,0583 94 | -141,656 | 0 | 8,8255 | 1,8189 2 |
| 1 | 0,02 | 0,18980 2 | 0 | 851.66 6,84 | 0,0780 125 | 0,0766 723 | -131,437 | 0 | 6,6952 8 | 1,7276 5 |
| 1 | 0,03 | 0,25057 | 0 | 816.87 4,57 | 0,0891 838 | 0,0888 243 | -124,332 | 0 | 5,5482 2 | 1,6719 6 |
| 1 | 0,04 | 0,30215 2 | 0 | 791.05 7,32 | 0,1007 61 | 0,0973 322 | -118,947 | 0 | 4,8022 6 | 1,6331 8 |
| 1 | 0,05 | 0,34750 6 | 0 | 770.84 2,03 | 0,1125 35 | 0,1035 83 | -114,645 | 0 | 4,2662 5 | 1,6039 9 |
| 1 | 0,06 | 0,38816 2 | 0 | 754.49 6,28 | 0,1244 04 | 0,1082 7 | -111,094 | 0 | 3,8594 1 | 1,5809 3 |
| 1 | 0,07 | 0,42515 6 | 0 | 740.93 1,38 | 0,1363 07 | 0,1118 78 | -108,084 | 0 | 3,5376 3 | 1,5620 2 |
| 1 | 0,08 | 0,45916 | 0 | 729.46 6,93 | 0,1482 06 | 0,1146 83 | -105,483 | 0 | 3,2761 5 | 1,5460 7 |
| 1 | 0,09 | 0,49075 4 | 0 | 719.57 8,09 | 0,1600 73 | 0,1169 72 | -103,188 | 0 | 3,0571 3 | 1,5322 7 |
| 1 | 0,1 | 0,52036 5 | 0 | 710.89 9,66 | 0,1718 93 | 0,1189 45 | -101,126 | 0 | 2,8690 7 | 1,5200 6 |
| 1 | 0,11 | 0,54826 1 | 0 | 703.20 1,12 | 0,1836 61 | 0,1206 78 | -99,2514 | 0 | 2,7055 | 1,5090 9 |
| 1 | 0,12 | 0,57463 8 | 0 | 696.31 9,82 | 0,1953 72 | 0,1221 89 | -97,5332 | 0 | 2,5623 1 | 1,4991 2 |
| 1 | 0,13 | 0,59967 | 0 | 690.12 5,10 | 0,2070 24 | 0,1235 03 | -95,945 | 0 | 2,4361 3 | 1,4899 8 |
| 1 | 0,14 | 0,62350 6 | 0 | 684.50 9,20 | 0,2186 11 | 0,1246 69 | -94,4655 | 0 | 2,3238 | 1,4815 |
| 1 | 0,15 | 0,64627 2 | 0 | 679.38 6,74 | 0,2301 33 | 0,1257 17 | -93,0779 | 0 | 2,2230 3 | 1,4735 8 |
| 1 | 0,16 | 0,66806 9 | 0 | 674.69 0,69 | 0,2415 88 | 0,1266 66 | -91,7687 | 0 | 2,1320 6 | 1,4661 3 |
| 1 | 0,17 | 0,68897 9 | 0 | 670.36 8,90 | 0,2529 74 | 0,1275 27 | -90,528 | 0 | 2,0495 7 | 1,4590 8 |



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|---|----------|---------|---|------------|----------|----------|----------|---|----------|---------|
| 1 | 0,187 | 0,70908 | 0 | 666.372,81 | 0,264291 | 0,128312 | -89,3509 | 0 | 1,97437 | 1,45242 |
| 1 | 0,195 | 0,72847 | 0 | 662.657,43 | 0,275539 | 0,129042 | -88,2321 | 0 | 1,90534 | 1,4461 |
| 1 | 0,24 | 0,74719 | 0 | 659.194,12 | 0,286717 | 0,129717 | -87,1674 | 0 | 1,84181 | 1,44012 |
| 1 | 0,2121 | 0,76886 | 0 | 655.325,75 | 0,300041 | 0,130478 | -85,9553 | 0 | 1,77174 | 1,43334 |
| 1 | 0,2264 | 0,79381 | 0 | 651.047,47 | 0,315903 | 0,13133 | -84,5857 | 0 | 1,69536 | 1,42573 |
| 1 | 0,24368 | 0,82240 | 0 | 646.356,22 | 0,334757 | 0,132274 | -83,046 | 0 | 1,61325 | 1,41723 |
| 1 | 0,264416 | 0,85493 | 0 | 641.079,64 | 0,357131 | 0,133393 | -81,2872 | 0 | 1,52603 | 1,40765 |
| 1 | 0,289299 | 0,89175 | 0 | 634.781,92 | 0,383625 | 0,134919 | -79,208 | 0 | 1,43409 | 1,39659 |
| 1 | 0,319159 | 0,93311 | 0 | 627.168,12 | 0,414925 | 0,136974 | -76,7392 | 0 | 1,33891 | 1,38387 |
| 1 | 0,354991 | 0,97928 | 0 | 618.009,86 | 0,451794 | 0,139644 | -73,8274 | 0 | 1,24237 | 1,36942 |
| 1 | 0,397989 | 1,03054 | 0 | 607.032,92 | 0,495057 | 0,143062 | -70,4137 | 0 | 1,14622 | 1,35319 |
| 1 | 0,449587 | 1,08718 | 0 | 593.905,51 | 0,545557 | 0,147363 | -66,4344 | 0 | 1,05253 | 1,33519 |
| 1 | 0,511504 | 1,14902 | 0 | 578.165,83 | 0,603847 | 0,152575 | -61,8176 | 0 | 0,964675 | 1,31552 |
| 1 | 0,585805 | 1,21738 | 0 | 559.482,71 | 0,670877 | 0,159166 | -56,508 | 0 | 0,881868 | 1,29434 |
| 1 | 0,674966 | 1,29266 | 0 | 537.612,09 | 0,746579 | 0,167246 | -50,5039 | 0 | 0,806489 | 1,2721 |
| 1 | 0,781959 | 1,37547 | 0 | 512.862,30 | 0,830255 | 0,176635 | -43,9296 | 0 | 0,740774 | 1,2496 |
| 1 | 0,910351 | 1,46692 | 0 | 485.380,53 | 0,920553 | 0,187529 | -36,9071 | 0 | 0,685382 | 1,22757 |
| 1 | 1,06442 | 1,56875 | 0 | 455.311,91 | 1,01275 | 0,200553 | -29,6098 | 0 | 0,640253 | 1,20683 |
| 1 | 1,24931 | 1,68354 | 0 | 423.039,09 | 1,09797 | 0,217223 | -22,3196 | 0 | 0,604491 | 1,1884 |



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|---|-------------|---------|---|----------------|-------------|--------------|----------|---|--------------|-------------|
| 1 | 1,471 17 | 1,81443 | 0 | 389.15 3,54 | 1,1551 4 | 0,2415 38 | -15,4027 | 0 | 0,5773 73 | 1,1733 6 |
| 1 | 1,536 54 | 1,85197 | 0 | 379.46 1,97 | 1,163 | 0,2503 13 | -13,6065 | 0 | 0,5715 14 | 1,1699 9 |
| 1 | 1,536 54 | 1,85197 | 0 | 379.46 1,97 | 1,163 | 0,2503 13 | -13,6065 | 0 | 0,5715 14 | 1,1699 9 |
| 1 | 1,737 4 | 1,96528 | 0 | 348.97 3,38 | 1,1879 5 | 0,2787 27 | -8,50757 | 0 | 0,5573 37 | 1,1619 9 |
| 1 | 2,056 88 | 2,14099 | 0 | 306.96 2,15 | 1,2279 4 | 0,3217 56 | -2,5114 | 0 | 0,5434 86 | 1,1555 3 |
| 1 | 2,440 26 | 2,34746 | 0 | 268.24 5,16 | 1,2713 1 | 0,3681 3 | 2,09896 | 0 | 0,5345 12 | 1,1533 7 |
| 1 | 2,900 31 | 2,59191 | 0 | 234.80 8,70 | 1,3141 5 | 0,4171 54 | 5,79348 | 0 | 0,5288 03 | 1,1525 9 |
| 1 | 3,452 37 | 2,88276 | 0 | 207.37 7,47 | 1,3530 2 | 0,4668 9 | 8,55506 | 0 | 0,5252 19 | 1,1529 1 |
| 1 | 4,114 84 | 3,22989 | 0 | 186.37 7,81 | 1,3853 1 | 0,5135 69 | 10,5631 | 0 | 0,523 | 1,1534 8 |
| 1 | 4,909 81 | 3,64505 | 0 | 172.37 7,42 | 1,4115 | 0,5493 84 | 11,9372 | 0 | 0,5216 37 | 1,1535 9 |
| 1 | 5,863 77 | 4,14221 | 0 | 162.97 5,54 | 1,4384 5 | 0,5734 46 | 12,9502 | 0 | 0,5207 76 | 1,1532 |
| 1 | 7,008 53 | 4,73801 | 0 | 152.79 7,88 | 1,4706 9 | 0,6013 46 | 13,974 | 0 | 0,5202 15 | 1,1530 7 |
| 1 | 8,382 23 | 5,45237 | 0 | 141.83 5,64 | 1,5092 3 | 0,6342 86 | 14,9945 | 0 | 0,5198 83 | 1,1532 8 |
| 1 | 10,03 07 | 6,3092 | 0 | 130.21 4,03 | 1,5553 1 | 0,6733 71 | 15,9915 | 0 | 0,5197 04 | 1,1538 4 |
| 1 | 12,00 88 | 7,33715 | 0 | 118.10 8,80 | 1,6103 7 | 0,7199 05 | 16,9453 | 0 | 0,5196 18 | 1,1547 9 |
| 1 | 14,38 26 | 8,57055 | 0 | 105.73 5,68 | 1,6761 7 | 0,7754 57 | 17,8379 | 0 | 0,5195 8 | 1,1561 |
| 1 | 17,23 11 | 10,0506 | 0 | 93.354, 41 | 1,7547 6 | 0,8418 02 | 18,6543 | 0 | 0,5195 66 | 1,1577 4 |
| 1 | 20,64 93 | 11,8265 | 0 | 81.222, 03 | 1,8485 8 | 0,9238 9 | 20,3599 | 0 | 0,5195 61 | 1,1562 7 |
| 1 | 24,75 12 | 13,9577 | 0 | 69.595, 33 | 1,9605 4 | 1,0215 5 | 21,7551 | 0 | 0,5195 59 | 1,1558 6 |

| | | | | | | | | | | |
|---|-------------|---------|---|---------------|-------------|-------------|---------|---|--------------|-------------|
| 1 | 29,67 34 | 16,5151 | 0 | 58.713, 66 | 2,0940 7 | 1,1377 6 | 22,8052 | 0 | 0,5195 59 | 1,1564 7 |
| 1 | 35,58 01 | 19,584 | 0 | 48.768, 44 | 2,2532 6 | 1,2763 3 | 23,5652 | 0 | 0,5195 59 | 1,1578 1 |
| 1 | 42,66 81 | 23,2666 | 0 | 44.040, 22 | 2,4429 4 | 1,4418 6 | 24,0909 | 0 | 0,5195 59 | 1,1595 9 |
| 1 | 50,25 11 | 27,6882 | 0 | 35.510, 95 | 2,6689 6 | 1,6401 2 | 24,4414 | 0 | 0,5195 59 | 1,1615 7 |
| 1 | 57,00 24 | 33,1211 | 0 | 27.987, 66 | 2,9444 1 | 1,7976 2 | 24,6715 | 0 | 0,5460 38 | 1,1636 1 |
| 1 | 60,10 79 | 35,7178 | 0 | 25.163, 92 | 3,0752 8 | 1,8704 4 | 24,74 | 0 | 0,5591 22 | 1,1644 5 |
| 1 | 65,27 39 | 40,0375 | 0 | 21.248, 58 | 3,2918 | 1,9936 6 | 24,8181 | 0 | 0,5807 48 | 1,1656 7 |
| 1 | 75,49 18 | 48,8847 | 0 | 15.558, 66 | 3,7318 8 | 2,2417 | 24,9056 | 0 | 0,6227 45 | 1,1675 5 |
| 1 | 88,17 64 | 60,3219 | 0 | 10.927, 77 | 4,2945 | 2,5628 1 | 24,9542 | 0 | 0,6743 86 | 1,1691 6 |
| 1 | 103,9 48 | 75,2702 | 0 | 7.340,5 4 | 5,0207 7 | 2,9820 9 | 24,9791 | 0 | 0,7383 29 | 1,1704 5 |
| 1 | 123,5 64 | 95,0147 | 0 | 4.711,4 3 | 5,967 | 3,5337 7 | 24,9909 | 0 | 0,8170 76 | 1,1714 3 |
| 1 | 126,6 43 | 98,2711 | 0 | 4.410,7 0 | 6,1218 1 | 3,6251 1 | 24,9919 | 0 | 0,8293 1 | 1,1715 4 |
| 1 | 147,8 84 | 121,136 | 0 | 3.111,0 0 | 7,1994 6 | 4,0760 3 | 24,9959 | 0 | 0,8893 17 | 1,1720 3 |
| 1 | 177,6 43 | 155,055 | 0 | 2.049,6 2 | 8,7743 3 | 4,6772 9 | 24,9982 | 0 | 0,9653 14 | 1,1724 3 |
| 1 | 213,8 11 | 199,328 | 0 | 1.324,8 2 | 10,794 | 5,3998 4 | 24,9992 | 0 | 1,0516 5 | 1,1727 1 |
| 1 | 256,6 76 | 257,302 | 0 | 842,58 4 | 13,389 4 | 6,2648 5 | 24,9995 | 0 | 1,1490 3 | 1,1729 |
| 1 | 308,4 99 | 333,415 | 0 | 528,06 1 | 16,729 1 | 7,3048 2 | 24,9996 | 0 | 1,2585 4 | 1,1730 2 |
| 1 | 372,2 57 | 433,597 | 0 | 326,63 1 | 21,032 1 | 8,5507 4 | 24,9998 | 0 | 1,3826 | 1,1731 |
| 1 | 450,3 89 | 565,769 | 0 | 200,18 6 | 26,582 6 | 10,036 9 | 24,9999 | 0 | 1,5206 4 | 1,1731 5 |

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|---|---------|-----------|---|------------|------------|----------|----------|---|-----------|---------|
| 1 | 545,963 | 740,308 | 0 | 121,92 | 33,7397 | 11,7993 | 24,9999 | 0 | 1,67338 | 1,17318 |
| 1 | 662,726 | 970,851 | 0 | 73,91 | 42,9584 | 13,8824 | 25 | 0 | 1,84254 | 1,17319 |
| 1 | 736,688 | 1110,46 | 0 | 57,70 | 48,4354 | 15,037 | 25 | 0 | 1,93279 | 1,17329 |
| 2 | 0,22 | -0,372439 | 0 | 1,00 | 0,00177245 | 0,925914 | 24,6396 | 0 | 0,519559 | 1,17396 |
| 2 | 0,32 | -0,355257 | 0 | 910.084,68 | 0,501439 | 0,110428 | -144,243 | 0 | 0,102496 | 1,85059 |
| 2 | 0,42 | -0,34608 | 0 | 942.386,09 | 0,783965 | 0,155899 | -150,217 | 0 | 0,0860138 | 1,91312 |
| 2 | 0,52 | -0,33768 | 0 | 954.241,14 | 1,04242 | 0,18185 | -152,373 | 0 | 0,0831483 | 1,93733 |
| 2 | 0,62 | -0,329334 | 0 | 960.385,62 | 1,28911 | 0,198479 | -153,482 | 0 | 0,0841188 | 1,95016 |
| 2 | 0,72 | -0,320798 | 0 | 963.961,51 | 1,52601 | 0,210559 | -154,093 | 0 | 0,0867445 | 1,95716 |
| 2 | 0,82 | -0,311951 | 0 | 966.143,62 | 1,7558 | 0,22005 | -154,384 | 0 | 0,0902241 | 1,96 |
| 2 | 0,92 | -0,302731 | 0 | 967.494,16 | 1,9793 | 0,228149 | -154,481 | 0 | 0,0941487 | 1,96027 |
| 2 | 1,02 | -0,293107 | 0 | 968.305,18 | 2,19958 | 0,235123 | -154,458 | 0 | 0,0983189 | 1,95898 |
| 2 | 1,12 | -0,28306 | 0 | 968.742,23 | 2,42155 | 0,240927 | -154,347 | 0 | 0,102637 | 1,95651 |
| 2 | 1,22 | -0,272575 | 0 | 968.896,10 | 2,64546 | 0,245796 | -154,166 | 0 | 0,107082 | 1,95311 |
| 2 | 1,32 | -0,26164 | 0 | 968.831,35 | 2,87088 | 0,249979 | -153,932 | 0 | 0,111626 | 1,94901 |



| | | | | | | | | | | |
|---|-------|---------|---|--------|--------|--------|----------|---|--------|--------|
| 2 | 1,42 | - | 0 | 968.60 | 3,0974 | 0,2537 | -153,654 | 0 | 0,1162 | 1,9443 |
| | | 0,25024 | | 1,26 | 6 | 77 | | | 19 | 4 |
| | | 8 | | | | | | | | |
| 2 | 1,52 | - | 0 | 968.24 | 3,3250 | 0,2573 | -153,34 | 0 | 0,1208 | 1,9392 |
| | | 0,23839 | | 3,52 | 3 | 43 | | | 33 | 1 |
| | | 6 | | | | | | | | |
| 2 | 1,62 | - | 0 | 967.78 | 3,5534 | 0,2607 | -153 | 0 | 0,1254 | 1,9337 |
| | | 0,22608 | | 2,02 | 5 | 13 | | | 57 | 5 |
| | | 1 | | | | | | | | |
| 2 | 1,72 | - | 0 | 967.23 | 3,7826 | 0,2639 | -152,638 | 0 | 0,1300 | 1,9280 |
| | | 0,21330 | | 5,95 | 1 | 34 | | | 82 | 3 |
| | | 5 | | | | | | | | |
| 2 | 1,82 | - | 0 | 966.62 | 4,0124 | 0,2670 | -152,256 | 0 | 0,1346 | 1,9220 |
| | | 0,20006 | | 1,17 | 1 | 59 | | | 95 | 8 |
| | | 6 | | | | | | | | |
| 2 | 1,92 | - | 0 | 965.94 | 4,2427 | 0,2701 | -151,858 | 0 | 0,1392 | 1,9159 |
| | | 0,18636 | | 9,15 | 9 | 07 | | | 89 | 7 |
| | | 7 | | | | | | | | |
| 2 | 2,02 | - | 0 | 965.22 | 4,4736 | 0,2730 | -151,448 | 0 | 0,1438 | 1,9097 |
| | | 0,17220 | | 9,02 | 9 | 88 | | | 6 | 6 |
| | | 9 | | | | | | | | |
| 2 | 2,12 | - | 0 | 964.46 | 4,7050 | 0,2760 | -151,028 | 0 | 0,1483 | 1,9034 |
| | | 0,15759 | | 9,24 | 9 | 27 | | | 98 | 7 |
| | | 7 | | | | | | | | |
| 2 | 2,22 | - | 0 | 963.67 | 4,9369 | 0,2789 | -150,6 | 0 | 0,1528 | 1,8971 |
| | | 0,14253 | | 8,89 | 5 | 73 | | | 88 | 1 |
| | | 4 | | | | | | | | |
| 2 | 2,34 | - | 0 | 962.69 | 5,2157 | 0,2825 | -150,077 | 0 | 0,1582 | 1,8894 |
| | | 0,12386 | | 7,22 | 8 | 17 | | | 11 | 4 |
| | | 9 | | | | | | | | |
| 2 | 2,484 | - | 0 | 961.47 | 5,5511 | 0,2867 | -149,441 | 0 | 0,1645 | 1,8802 |
| | | 0,10063 | | 9,30 | 9 | 61 | | | 03 | 4 |
| | | 3 | | | | | | | | |
| 2 | 2,656 | - | 0 | 959.97 | 5,9548 | 0,2918 | -148,67 | 0 | 0,1719 | 1,8692 |
| | 8 | 0,07156 | | 4,51 | 4 | 56 | | | 06 | 6 |
| | | 7 | | | | | | | | |
| 2 | 2,864 | - | 0 | 958.12 | 6,4408 | 0,2980 | -147,738 | 0 | 0,1805 | 1,8562 |
| | 16 | 0,03502 | | 7,92 | 4 | 25 | | | 46 | 2 |
| | | 45 | | | | | | | | |



| | | | | | | | | | | |
|---|-------------|-----------------|---|----------------|-------------|---------------|----------|---|--------------|-------------|
| 2 | 3,054 11 | 7,78058 E-15 | 0 | 956.41 0,52 | 6,8875 6 | 0,3037 28 | -146,88 | 0 | 0,1882 26 | 1,8444 5 |
| 2 | 3,054 11 | 7,78058 E-15 | 0 | 962.39 4,38 | 6,3948 1 | 0,0511 252 | -148,743 | 0 | 1,2721 26 | 1,8679 3 |
| 2 | 3,112 99 | 0,06347 31 | 0 | 945.44 8,23 | 6,4384 9 | 0,0858 572 | -145,14 | 0 | 0,9392 87 | 1,8286 7 |
| 2 | 3,411 59 | 0,27017 1 | 0 | 927.55 2,24 | 6,9103 1 | 0,2145 1 | -141,234 | 0 | 0,5614 66 | 1,7885 3 |
| 2 | 3,769 91 | 0,4481 | 0 | 927.03 9,28 | 7,6864 4 | 0,3145 42 | -140,689 | 0 | 0,4496 25 | 1,7812 |
| 2 | 4,199 89 | 0,62767 4 | 0 | 928.85 0,17 | 8,758 | 0,3911 95 | -140,329 | 0 | 0,3924 53 | 1,7743 |
| 2 | 4,715 87 | 0,82066 7 | 0 | 930.47 9,58 | 10,147 5 | 0,4470 97 | -139,584 | 0 | 0,3594 43 | 1,7622 |
| 2 | 5,335 04 | 1,03644 | 0 | 931.18 8,91 | 11,885 1 | 0,4852 33 | -138,247 | 0 | 0,3412 21 | 1,743 |
| 2 | 6,078 05 | 1,28626 | 0 | 930.45 4,13 | 14,000 7 | 0,5103 86 | -136,164 | 0 | 0,3336 92 | 1,7156 3 |
| 2 | 6,969 66 | 1,58368 | 0 | 927.71 7,39 | 16,530 7 | 0,5271 01 | -133,188 | 0 | 0,3350 21 | 1,6796 5 |
| 2 | 8,039 59 | 1,94619 | 0 | 922.22 1,28 | 19,518 6 | 0,5402 88 | -129,177 | 0 | 0,3439 41 | 1,6353 9 |
| 2 | 9,323 51 | 2,39697 | 0 | 912.95 2,46 | 23,016 2 | 0,5555 43 | -124,004 | 0 | 0,3589 45 | 1,5840 6 |
| 2 | 10,86 42 | 2,96494 | 0 | 898.60 3,87 | 27,088 5 | 0,5782 42 | -117,55 | 0 | 0,3781 38 | 1,5276 1 |
| 2 | 12,71 31 | 3,68439 | 0 | 877.57 8,71 | 31,811 9 | 0,6135 85 | -109,713 | 0 | 0,3992 65 | 1,4684 7 |
| 2 | 14,93 17 | 4,59473 | 0 | 847.76 1,93 | 37,256 | 0,6664 92 | -100,315 | 0 | 0,4204 51 | 1,4087 3 |
| 2 | 17,59 4 | 5,74215 | 0 | 805.76 3,87 | 43,443 5 | 0,7437 59 | -88,9464 | 0 | 0,4406 9 | 1,3494 9 |
| 2 | 20,78 88 | 7,18168 | 0 | 746.16 3,91 | 50,278 | 0,8588 5 | -74,8497 | 0 | 0,4597 11 | 1,2912 |
| 2 | 24,62 26 | 8,97995 | 0 | 667.14 7,19 | 57,337 6 | 1,0268 7 | -57,5931 | 0 | 0,4777 81 | 1,2347 |
| 2 | 28,32 91 | 10,784 | 0 | 567.05 9,11 | 62,058 1 | 1,2719 3 | -37,0282 | 0 | 0,4954 29 | 1,1821 6 |

| | | | | | | | | | | |
|---|-------------|---------|---|----------------|-------------|-------------|----------|---|--------------|-------------|
| 2 | 28,32 91 | 10,784 | 0 | 567.05 9,11 | 62,058 1 | 1,2719 3 | -37,0282 | 0 | 0,4954 29 | 1,1821 6 |
| 2 | 29,22 31 | 11,2296 | 0 | 532.56 2,69 | 62,343 5 | 1,3717 4 | -30,2014 | 0 | 0,5009 83 | 1,1674 2 |
| 2 | 34,74 37 | 14,3113 | 0 | 275.13 3,35 | 63,546 | 2,3451 7 | 3,71604 | 0 | 0,6357 68 | 1,1426 7 |
| 2 | 41,36 84 | 18,9568 | 0 | 181.33 5,95 | 64,279 8 | 3,0742 7 | 11,6419 | 0 | 0,7501 57 | 1,1507 8 |
| 2 | 49,31 81 | 25,101 | 0 | 162.64 3,66 | 64,616 9 | 3,3287 3 | 13,5429 | 0 | 0,7872 97 | 1,1518 |
| 2 | 58,85 77 | 32,7572 | 0 | 149.95 8,44 | 65,006 1 | 3,5449 9 | 14,9319 | 0 | 0,8178 26 | 1,1523 3 |
| 2 | 70,30 53 | 42,3293 | 0 | 135.37 3,34 | 65,486 5 | 3,8142 6 | 16,2339 | 0 | 0,8545 48 | 1,1535 7 |
| 2 | 84,04 23 | 54,373 | 0 | 119.95 7,57 | 66,082 9 | 4,1519 2 | 17,423 | 0 | 0,899 | 1,1554 8 |
| 2 | 100,5 27 | 69,6369 | 0 | 104.04 4,08 | 66,828 5 | 4,5785 3 | 18,4781 | 0 | 0,9530 41 | 1,1579 7 |
| 2 | 120,3 08 | 89,1479 | 0 | 88.453, 93 | 67,767 5 | 5,1312 3 | 20,2785 | 0 | 1,0200 8 | 1,1578 3 |
| 2 | 144,0 46 | 114,255 | 0 | 75.389, 73 | 68,957 3 | 5,7349 9 | 21,8318 | 0 | 1,0900 8 | 1,1576 2 |
| 2 | 172,5 31 | 146,235 | 0 | 65.516, 40 | 70,448 1 | 6,3180 5 | 22,8799 | 0 | 1,1546 8 | 1,1579 7 |
| 2 | 206,7 13 | 186,962 | 0 | 56.062, 01 | 72,314 3 | 7,0011 9 | 23,6315 | 0 | 1,2274 7 | 1,1590 7 |
| 2 | 246,2 27 | 239,005 | 0 | 46.562, 79 | 74,656 4 | 7,8020 2 | 24,1483 | 0 | 1,3091 7 | 1,1606 4 |
| 2 | 292,6 83 | 305,727 | 0 | 37.502, 89 | 77,602 9 | 8,7421 8 | 24,4894 | 0 | 1,4008 7 | 1,1624 4 |
| 2 | 348,7 99 | 391,538 | 0 | 29.549, 41 | 81,317 9 | 9,8478 7 | 24,7052 | 0 | 1,5034 3 | 1,1642 8 |
| 2 | 356,2 49 | 403,67 | 0 | 28.798, 66 | 81,837 4 | 9,9961 3 | 24,7251 | 0 | 1,5169 1 | 1,1645 1 |
| 2 | 416,5 43 | 502,279 | 0 | 22.836, 17 | 86,012 8 | 11,146 8 | 24,836 | 0 | 1,6183 5 | 1,1660 3 |
| 2 | 498,0 19 | 645,426 | 0 | 17.354, 00 | 91,951 2 | 12,669 7 | 24,9123 | 0 | 1,7461 | 1,1675 9 |



| | | | | | | | | | | |
|---|-------------|--------------|---|----------------|----------------|---------------|----------|---|--------------|-------------|
| 2 | 596,2 55 | 830,972 | 0 | 12.949, 00 | 99,474 1 | 14,451 1 | 24,9547 | 0 | 1,8877 2 | 1,1689 2 |
| 2 | 714,6 84 | 1071,89 | 0 | 10.528, 89 | 109,01 | 16,527 1 | 24,9775 | 0 | 2,0439 | 1,1700 1 |
| 2 | 733,0 34 | 1110,45 | 0 | 10.457, 24 | 110,51 6 | 16,839 3 | 24,9796 | 0 | 2,0666 7 | 1,1701 4 |
| 3 | 48,36 74 | - 13,8221 | 0 | 1,00 | 0,0017 7245 | 0,9259 14 | 24,6396 | 0 | 0,5195 59 | 1,1739 6 |
| 3 | 48,46 74 | - 13,7808 | 0 | 586.37 3,95 | 1,8076 2 | 0,0115 104 | -95,9054 | 0 | 0,3985 53 | 1,5666 7 |
| 3 | 48,56 74 | - 13,7409 | 0 | 608.31 0,44 | 2,5553 9 | 0,0211 863 | -99,5267 | 0 | 0,3986 15 | 1,5833 8 |
| 3 | 48,66 74 | - 13,7011 | 0 | 613.30 6,65 | 3,1434 6 | 0,0309 376 | -100,208 | 0 | 0,3991 9 | 1,5859 6 |
| 3 | 48,76 74 | - 13,6611 | 0 | 614.75 6,37 | 3,6492 7 | 0,0406 508 | -100,36 | 0 | 0,3998 13 | 1,5862 8 |
| 3 | 48,86 74 | - 13,6211 | 0 | 616.08 8,73 | 4,1034 2 | 0,0501 581 | -100,604 | 0 | 0,4001 82 | 1,5875 6 |
| 3 | 48,96 74 | - 13,5811 | 0 | 619.78 4,47 | 4,5222 5 | 0,0590 823 | -101,447 | 0 | 0,3999 45 | 1,5926 9 |
| 3 | 49,06 74 | - 13,5411 | 0 | 624.55 5,20 | 4,9142 9 | 0,0674 76 | -102,543 | 0 | 0,3995 3 | 1,5994 8 |
| 3 | 49,16 74 | - 13,5012 | 0 | 629.59 4,91 | 5,2849 7 | 0,0754 402 | -103,693 | 0 | 0,3991 2 | 1,6066 8 |
| 3 | 49,26 74 | - 13,4613 | 0 | 634.59 9,70 | 5,6387 5 | 0,0830 319 | -104,827 | 0 | 0,3987 62 | 1,6138 5 |
| 3 | 49,36 74 | - 13,4214 | 0 | 639.43 5,80 | 5,9787 7 | 0,0903 013 | -105,915 | 0 | 0,3984 69 | 1,6208 |
| 3 | 49,46 74 | - 13,3816 | 0 | 644.05 0,58 | 6,3067 8 | 0,0972 976 | -106,946 | 0 | 0,3982 39 | 1,6274 7 |
| 3 | 49,56 74 | - 13,3418 | 0 | 648.42 4,81 | 6,6245 6 | 0,1040 52 | -107,918 | 0 | 0,3980 69 | 1,6338 1 |
| 3 | 49,66 74 | -13,302 | 0 | 652.56 0,66 | 6,9334 3 | 0,1105 91 | -108,832 | 0 | 0,3979 52 | 1,6398 3 |
| 3 | 49,76 74 | - 13,2622 | 0 | 656.46 5,54 | 7,2346 2 | 0,1169 35 | -109,692 | 0 | 0,3978 83 | 1,6455 4 |
| 3 | 49,86 | - | 0 | 660.14 | 7,5291 | 0,1230 | -110,498 | 0 | 0,3978 | 1,6509 |

| | | | | | | | | | | |
|---|-------|---------|---|--------|--------|--------|----------|---|--------|--------|
| | 74 | 13,2224 | | 7,30 | 8 | 95 | | | 58 | 6 |
| 3 | 49,96 | - | 0 | 663.61 | 7,8180 | 0,1290 | -111,256 | 0 | 0,3978 | 1,6560 |
| | 74 | 13,1826 | | 7,78 | 5 | 83 | | | 73 | 8 |
| 3 | 50,06 | - | 0 | 666.88 | 8,1019 | 0,1349 | -111,967 | 0 | 0,3979 | 1,6609 |
| | 74 | 13,1428 | | 8,78 | 2 | 1 | | | 25 | 4 |
| 3 | 50,16 | -13,103 | 0 | 669.97 | 8,3810 | 0,1405 | -112,637 | 0 | 0,3980 | 1,6655 |
| | 74 | | | 4,72 | 9 | 92 | | | 1 | 5 |
| 3 | 50,26 | - | 0 | 672.88 | 8,6558 | 0,1461 | -113,268 | 0 | 0,3981 | 1,6699 |
| | 74 | 13,0632 | | 7,94 | 8 | 42 | | | 24 | 2 |
| 3 | 50,36 | - | 0 | 675.64 | 8,9267 | 0,1515 | -113,864 | 0 | 0,3982 | 1,6740 |
| | 74 | 13,0234 | | 1,83 | | 69 | | | 64 | 8 |
| 3 | 50,48 | - | 0 | 678.75 | 9,2469 | 0,1579 | -114,535 | 0 | 0,3984 | 1,6788 |
| | 74 | 12,9756 | | 0,96 | 9 | 28 | | | 62 | 1 |
| 3 | 50,63 | - | 0 | 682.22 | 9,6252 | 0,1653 | -115,284 | 0 | 0,3987 | 1,6841 |
| | 14 | 12,9182 | | 5,76 | 9 | 52 | | | 37 | 3 |
| 3 | 50,80 | - | 0 | 686.03 | 10,072 | 0,1739 | -116,107 | 0 | 0,3991 | 1,6900 |
| | 42 | 12,8492 | | 7,46 | 4 | 6 | | | 21 | 5 |
| 3 | 51,01 | - | 0 | 690.19 | 10,598 | 0,1839 | -117,004 | 0 | 0,3996 | 1,6965 |
| | 16 | 12,7664 | | 5,90 | 8 | 38 | | | 36 | 8 |
| 3 | 51,26 | - | 0 | 694.66 | 11,218 | 0,1954 | -117,964 | 0 | 0,4003 | 1,7036 |
| | 04 | 12,6669 | | 1,89 | 4 | 56 | | | 17 | 4 |
| 3 | 51,55 | - | 0 | 699.47 | 11,945 | 0,2087 | -118,92 | 0 | 0,4011 | 1,7104 |
| | 9 | 12,5472 | | 8,84 | 9 | 74 | | | 83 | 6 |
| 3 | 51,91 | - | 0 | 704.63 | 12,795 | 0,2236 | -119,827 | 0 | 0,4025 | 1,7165 |
| | 73 | 12,4032 | | 2,87 | 5 | 7 | | | 69 | 2 |
| 3 | 52,34 | - | 0 | 710.41 | 13,783 | 0,2402 | -120,681 | 0 | 0,4044 | 1,7215 |
| | 73 | 12,2297 | | 8,70 | 4 | 11 | | | 19 | |
| 3 | 52,86 | - | 0 | 716.87 | 14,934 | 0,2587 | -121,438 | 0 | 0,4065 | 1,7248 |
| | 33 | 12,0205 | | 4,54 | 8 | 8 | | | 88 | 3 |
| 3 | 53,48 | -11,768 | 0 | 723.81 | 16,284 | 0,2795 | -122,026 | 0 | 0,4091 | 1,7257 |
| | 25 | | | 3,55 | 7 | 98 | | | 07 | 9 |
| 3 | 54,22 | - | 0 | 730.96 | 17,907 | 0,3024 | -122,351 | 0 | 0,4120 | 1,7234 |
| | 55 | 11,4629 | | 7,14 | 7 | 53 | | | 6 | 6 |
| 3 | 55,11 | - | 0 | 737.81 | 19,917 | 0,3270 | -122,196 | 0 | 0,4156 | 1,7157 |
| | 71 | 11,0939 | | 2,30 | 8 | 71 | | | 08 | 1 |
| 3 | 56,18 | - | 0 | 743.62 | 22,411 | 0,3540 | -121,305 | 0 | 0,4200 | 1,7002 |
| | 7 | 10,6469 | | 5,19 | 1 | 27 | | | 07 | 8 |
| 3 | 57,47 | - | 0 | 747.60 | 25,470 | 0,3846 | -119,484 | 0 | 0,4253 | 1,6760 |



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|---|-------------|-----------------|---|----------------|-------------|--------------|----------|---|--------------|-------------|
| | 09 | 10,1042 | | 5,95 | 4 | 26 | | | 69 | 4 |
| 3 | 59,01 16 | - 9,44405 | 0 | 748.97 5,33 | 29,212 5 | 0,4202 55 | -116,583 | 0 | 0,4316 11 | 1,6427 9 |
| 3 | 60,86 05 | - 8,63965 | 0 | 747.05 6,93 | 33,779 5 | 0,4624 12 | -112,545 | 0 | 0,4385 65 | 1,6017 3 |
| 3 | 63,07 91 | - 7,65826 | 0 | 741.11 2,66 | 39,337 1 | 0,5129 22 | -107,343 | 0 | 0,4460 17 | 1,5546 9 |
| 3 | 65,74 14 | - 6,46041 | 0 | 730.16 1,69 | 46,065 | 0,5742 71 | -100,968 | 0 | 0,4537 | 1,5039 3 |
| 3 | 68,93 62 | -4,9984 | 0 | 713.24 1,14 | 54,156 7 | 0,6496 48 | -93,4477 | 0 | 0,4613 89 | 1,4518 8 |
| 3 | 72,77 | - 3,21456 | 0 | 689.31 2,08 | 63,802 2 | 0,7436 74 | -84,799 | 0 | 0,4689 16 | 1,4005 8 |
| 3 | 77,37 05 | - 1,03974 | 0 | 656.84 0,12 | 75,155 5 | 0,8638 79 | -74,9559 | 0 | 0,4761 91 | 1,3514 4 |
| 3 | 79,54 66 | 4,81959 E-13 | 0 | 640.33 3,00 | 80,408 4 | 0,9244 55 | -70,4685 | 0 | 0,4791 42 | 1,3318 2 |
| 3 | 79,54 66 | 4,81959 E-13 | 0 | 641.32 6,54 | 80,235 5 | 0,8933 28 | -70,7311 | 0 | 0,4965 57 | 1,3329 2 |
| 3 | 82,89 11 | 1,64615 | 0 | 613.52 2,48 | 88,063 4 | 1,0175 6 | -63,7505 | 0 | 0,4896 42 | 1,3054 4 |
| 3 | 89,51 58 | 4,88995 | 0 | 557.06 7,40 | 102,89 5 | 1,2529 4 | -50,8592 | 0 | 0,4911 38 | 1,2625 3 |
| 3 | 97,46 55 | 8,81625 | 0 | 488.17 1,39 | 118,82 6 | 1,5768 6 | -36,5293 | 0 | 0,4967 5 | 1,2240 2 |
| 3 | 107,0 05 | 13,7827 | 0 | 397.08 3,90 | 133,43 1 | 1,9488 | -19,3522 | 0 | 0,5560 07 | 1,1878 9 |
| 3 | 113,9 04 | 17,8907 | 0 | 297.42 2,34 | 136,83 7 | 2,469 | -3,8503 | 0 | 0,6486 57 | 1,1664 1 |
| 3 | 113,9 04 | 17,8907 | 0 | 297.42 2,34 | 136,83 7 | 2,4689 6 | -3,8503 | 0 | 0,6486 67 | 1,1664 1 |
| 3 | 118,4 53 | 21,0723 | 0 | 212.23 0,77 | 137,79 2 | 3,093 | 6,13963 | 0 | 0,7490 16 | 1,1618 1 |
| 3 | 132,1 9 | 32,8257 | 0 | 123.18 6,59 | 139,30 1 | 4,3998 4 | 14,3283 | 0 | 0,9291 21 | 1,1653 |
| 3 | 148,6 74 | 48,6689 | 0 | 105.85 9,55 | 140,09 8 | 4,8805 4 | 16,1106 | 0 | 0,9894 31 | 1,1652 9 |
| 3 | 168,4 | 68,9037 | 0 | 90.313, | 141,09 | 5,4468 | 17,5436 | 0 | 1,0566 | 1,1660 |

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|---|-------------|--------------|---|----------------|----------------|----------------|----------|---|--------------|-------------|
| | 56 | | | 94 | | 9 | | | 3 | 2 |
| 3 | 192,1 93 | 94,9567 | 0 | 74.964, 72 | 142,34 1 | 6,1735 7 | 18,7334 | 0 | 1,1387 1 | 1,1674 8 |
| 3 | 220,6 78 | 128,47 | 0 | 64.426, 44 | 143,92 | 6,8461 5 | 20,1853 | 0 | 1,2110 6 | 1,1662 4 |
| 3 | 254,8 61 | 171,208 | 0 | 55.331, 42 | 145,89 3 | 7,5961 5 | 21,7868 | 0 | 1,2884 7 | 1,1640 7 |
| 3 | 295,8 79 | 225,839 | 0 | 46.623, 68 | 148,36 5 | 8,4637 | 22,92 | 0 | 1,3741 | 1,1633 2 |
| 3 | 345,1 02 | 295,843 | 0 | 38.323, 65 | 151,46 7 | 9,4707 6 | 23,6956 | 0 | 1,4690 7 | 1,1635 2 |
| 3 | 404,1 68 | 385,77 | 0 | 31.035, 11 | 155,36 7 | 10,642 6 | 24,2077 | 0 | 1,5744 8 | 1,1643 2 |
| 3 | 468,6 97 | 490,857 | 0 | 25.223, 87 | 159,83 1 | 11,886 8 | 24,5127 | 0 | 1,6812 7 | 1,1653 4 |
| 3 | 475,0 49 | 501,568 | 0 | 24.843, 83 | 160,28 1 | 12,007 5 | 24,5342 | 0 | 1,6913 8 | 1,1654 4 |
| 3 | 560,1 05 | 651,004 | 0 | 19.540, 76 | 166,47 8 | 13,597 | 24,7351 | 0 | 1,8207 8 | 1,1666 7 |
| 3 | 662,1 72 | 844,237 | 0 | 15.153, 10 | 174,30 3 | 15,444 3 | 24,8541 | 0 | 1,9635 3 | 1,1678 7 |
| 3 | 784,6 53 | 1094,48 | 0 | 11.628, 99 | 184,19 1 | 17,584 5 | 24,9217 | 0 | 2,1203 2 | 1,1689 7 |
| 3 | 901,4 55 | 1350,27 | 0 | 9.324,0 2 | 194,06 9 | 19,554 4 | 24,9528 | 0 | 2,2577 5 | 1,1697 5 |
| 4 | 83,66 98 | - 16,3067 | 0 | 1,00 | 0,0017 7245 | 0,9259 14 | 24,6396 | 0 | 0,5195 59 | 1,1739 6 |
| 4 | 83,76 98 | - 16,2627 | 0 | 502.02 5,46 | 1,9279 7 | 0,0099 1554 | -84,1731 | 0 | 0,4302 89 | 1,5266 9 |
| 4 | 83,86 98 | - 16,2196 | 0 | 522.57 8,35 | 2,7254 9 | 0,0183 731 | -87,7647 | 0 | 0,4304 09 | 1,5420 6 |
| 4 | 83,96 98 | - 16,1766 | 0 | 527.37 8,64 | 3,3511 2 | 0,0269 162 | -88,4526 | 0 | 0,4307 68 | 1,5444 6 |
| 4 | 84,06 98 | - 16,1335 | 0 | 528.84 7,30 | 3,8879 9 | 0,0354 452 | -88,6211 | 0 | 0,4311 68 | 1,5448 5 |
| 4 | 84,16 98 | - 16,0903 | 0 | 529.15 8,92 | 4,3694 3 | 0,0439 274 | -88,6284 | 0 | 0,4315 7 | 1,5446 9 |

| | | | | | | | | | | |
|---|-------------|--------------|---|----------------|-------------|---------------|----------|---|--------------|-------------|
| 4 | 84,26 98 | - 16,0472 | 0 | 529.50 2,12 | 4,8103 9 | 0,0522 891 | -88,7088 | 0 | 0,4318 67 | 1,5451 2 |
| 4 | 84,36 98 | -16,004 | 0 | 531.57 6,57 | 5,2218 8 | 0,0602 209 | -89,2591 | 0 | 0,4318 19 | 1,5483 3 |
| 4 | 84,46 98 | - 15,9608 | 0 | 534.82 0,37 | 5,6101 1 | 0,0677 152 | -90,1098 | 0 | 0,4315 98 | 1,5533 1 |
| 4 | 84,56 98 | - 15,9177 | 0 | 538.63 9,01 | 5,9794 3 | 0,0748 27 | -91,0985 | 0 | 0,4313 33 | 1,5591 1 |
| 4 | 84,66 98 | - 15,8745 | 0 | 542.71 2,56 | 6,3335 6 | 0,0815 967 | -92,1399 | 0 | 0,4310 74 | 1,5652 7 |
| 4 | 84,76 98 | - 15,8314 | 0 | 546.84 8,24 | 6,6750 6 | 0,0880 695 | -93,1858 | 0 | 0,4308 4 | 1,5714 9 |
| 4 | 84,86 98 | - 15,7884 | 0 | 550.93 6,63 | 7,0054 6 | 0,0942 904 | -94,2102 | 0 | 0,4306 39 | 1,5776 3 |
| 4 | 84,96 98 | - 15,7453 | 0 | 554.92 2,30 | 7,3260 7 | 0,1002 9 | -95,2009 | 0 | 0,4304 71 | 1,5836 2 |
| 4 | 85,06 98 | - 15,7023 | 0 | 558.78 3,71 | 7,6381 1 | 0,1060 9 | -96,1539 | 0 | 0,4303 34 | 1,5894 3 |
| 4 | 85,16 98 | - 15,6592 | 0 | 562.50 7,62 | 7,9427 2 | 0,1117 09 | -97,067 | 0 | 0,4302 27 | 1,5950 5 |
| 4 | 85,26 98 | - 15,6162 | 0 | 566.07 7,61 | 8,2411 9 | 0,1171 53 | -97,9372 | 0 | 0,4301 51 | 1,6004 4 |
| 4 | 85,36 98 | - 15,5732 | 0 | 569.50 5,25 | 8,5337 3 | 0,1224 46 | -98,7685 | 0 | 0,4301 01 | 1,6056 3 |
| 4 | 85,46 98 | - 15,5302 | 0 | 572.78 9,22 | 8,821 | 0,1275 99 | -99,5613 | 0 | 0,4300 73 | 1,6106 2 |
| 4 | 85,56 98 | - 15,4872 | 0 | 575.93 9,24 | 9,1032 7 | 0,1326 29 | -100,319 | 0 | 0,4300 67 | 1,6154 2 |
| 4 | 85,66 98 | - 15,4442 | 0 | 578.95 7,79 | 9,3811 | 0,1375 4 | -101,042 | 0 | 0,4300 79 | 1,6200 4 |
| 4 | 85,78 98 | - 15,3926 | 0 | 582.41 3,33 | 9,7092 6 | 0,1432 87 | -101,867 | 0 | 0,4301 16 | 1,6253 5 |
| 4 | 85,93 38 | - 15,3306 | 0 | 586.34 1,45 | 10,095 9 | 0,1499 97 | -102,8 | 0 | 0,4301 89 | 1,6314 2 |
| 4 | 86,10 66 | - 15,2563 | 0 | 590.75 8,97 | 10,551 1 | 0,1577 97 | -103,846 | 0 | 0,4303 12 | 1,6382 9 |
| 4 | 86,31 39 | -15,167 | 0 | 595.67 2,98 | 11,086 2 | 0,1668 27 | -105,005 | 0 | 0,4305 04 | 1,6459 9 |



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|---|-------------|-------------------|---|----------------|-------------|--------------|----------|---|--------------|-------------|
| 4 | 86,56 28 | - 15,0599 | 0 | 601.06 2,88 | 11,715 1 | 0,1772 28 | -106,272 | 0 | 0,4307 89 | 1,6545 3 |
| 4 | 86,86 14 | - 14,9312 | 0 | 606.88 5,16 | 12,453 9 | 0,1891 5 | -107,636 | 0 | 0,4311 96 | 1,6638 7 |
| 4 | 87,21 97 | - 14,7766 | 0 | 613.06 5,08 | 13,320 2 | 0,2028 47 | -109,023 | 0 | 0,4317 6 | 1,6733 3 |
| 4 | 87,64 97 | - 14,5908 | 0 | 619.50 5,33 | 14,333 4 | 0,2187 29 | -110,293 | 0 | 0,4325 13 | 1,6815 2 |
| 4 | 88,16 56 | - 14,3674 | 0 | 626.77 5,84 | 15,518 8 | 0,2367 39 | -111,495 | 0 | 0,4333 87 | 1,6884 5 |
| 4 | 88,78 48 | - 14,0988 | 0 | 635.44 0,83 | 16,906 8 | 0,2566 27 | -112,723 | 0 | 0,4343 53 | 1,6946 4 |
| 4 | 89,52 78 | - 13,7756 | 0 | 645.22 2,72 | 18,532 | 0,2786 77 | -113,866 | 0 | 0,4355 34 | 1,6991 |
| 4 | 90,41 94 | - 13,3866 | 0 | 655.65 0,14 | 20,473 5 | 0,3028 43 | -114,752 | 0 | 0,4370 83 | 1,7002 5 |
| 4 | 91,48 94 | - 12,9178 | 0 | 665.93 8,15 | 22,876 5 | 0,3287 | -115,097 | 0 | 0,4392 48 | 1,6955 6 |
| 4 | 92,77 33 | - 12,3519 | 0 | 675.00 4,12 | 25,866 8 | 0,3570 26 | -114,527 | 0 | 0,4423 15 | 1,6818 2 |
| 4 | 94,31 4 | - 11,6674 | 0 | 681.83 3,53 | 29,521 5 | 0,3899 33 | -112,789 | 0 | 0,4463 05 | 1,6574 9 |
| 4 | 96,16 28 | - 10,8379 | 0 | 685.56 1,32 | 33,989 3 | 0,4288 97 | -109,773 | 0 | 0,4510 73 | 1,6230 5 |
| 4 | 98,38 14 | - 9,83106 | 0 | 685.22 2,45 | 39,45 | 0,4756 99 | -105,402 | 0 | 0,4564 8 | 1,5799 1 |
| 4 | 101,0 44 | - 8,60786 | 0 | 679.82 0,35 | 46,096 | 0,5327 64 | -99,6693 | 0 | 0,4623 04 | 1,5305 2 |
| 4 | 104,2 39 | - 7,12102 | 0 | 668.38 2,98 | 54,135 | 0,6031 91 | -92,6405 | 0 | 0,4683 09 | 1,4779 6 |
| 4 | 108,0 72 | - 5,31374 | 0 | 649.93 0,37 | 63,782 5 | 0,6910 87 | -84,4133 | 0 | 0,4743 16 | 1,4251 9 |
| 4 | 112,6 73 | - 3,11765 | 0 | 623.40 6,89 | 75,238 9 | 0,8026 53 | -75,0453 | 0 | 0,4802 08 | 1,3743 6 |
| 4 | 118,1 93 | - 0,45027 7 | 0 | 587.51 4,30 | 88,654 8 | 0,9480 5 | -64,5088 | 0 | 0,4859 33 | 1,3267 7 |
| 4 | 119,1 | 6,63385 | 0 | 581.16 | 90,858 | 0,9739 | -62,8056 | 0 | 0,4867 | 1,3198 |



| | | | | | | | | | | |
|---|-------------|-----------------|---|----------------|-------------|--------------|----------|---|--------------|-------------|
| | 19 | E-13 | | 3,41 | 5 | 6 | | | 85 | 9 |
| 4 | 119,1 19 | 6,63385 E-13 | 0 | 582.15 6,61 | 90,673 7 | 0,9468 63 | -63,0524 | 0 | 0,5013 11 | 1,3208 3 |
| 4 | 124,8 18 | 2,82891 | 0 | 540.30 9,58 | 103,83 2 | 1,1461 5 | -52,658 | 0 | 0,4945 08 | 1,2830 4 |
| 4 | 132,7 68 | 6,76891 | 0 | 480.08 4,47 | 121,01 | 1,4363 6 | -39,2596 | 0 | 0,4974 45 | 1,2430 6 |
| 4 | 142,3 08 | 11,5881 | 0 | 409.21 1,13 | 138,82 9 | 1,7784 5 | -24,9002 | 0 | 0,5251 6 | 1,2084 |
| 4 | 153,7 55 | 18,098 | 0 | 303.01 0,88 | 152,5 | 2,3063 5 | -6,61046 | 0 | 0,6212 46 | 1,1763 9 |
| 4 | 156,1 72 | 19,6328 | 0 | 276.27 3,83 | 153,13 9 | 2,475 | -2,64685 | 0 | 0,6505 13 | 1,1713 3 |
| 4 | 156,1 72 | 19,6328 | 0 | 276.27 3,83 | 153,13 9 | 2,475 | -2,64685 | 0 | 0,6505 12 | 1,1713 3 |
| 4 | 167,4 92 | 28,1329 | 0 | 146.79 7,48 | 154,88 3 | 3,7349 8 | 11,7621 | 0 | 0,8416 29 | 1,1658 7 |
| 4 | 183,9 77 | 43,1798 | 0 | 104.86 7,34 | 155,90 2 | 4,5983 2 | 15,4985 | 0 | 0,9545 79 | 1,1670 4 |
| 4 | 203,7 58 | 62,7129 | 0 | 87.112, 33 | 156,86 4 | 5,1405 6 | 17,1238 | 0 | 1,0207 4 | 1,1671 |
| 4 | 227,4 96 | 87,9047 | 0 | 70.235, 60 | 158,08 | 5,8434 8 | 18,4607 | 0 | 1,1020 2 | 1,1681 4 |
| 4 | 255,9 81 | 120,575 | 0 | 57.091, 03 | 159,62 6 | 6,5987 9 | 19,7886 | 0 | 1,1852 6 | 1,168 |
| 4 | 290,1 63 | 162,436 | 0 | 47.411, 40 | 161,56 6 | 7,3476 8 | 21,5623 | 0 | 1,2632 9 | 1,1651 9 |
| 4 | 331,1 82 | 216,053 | 0 | 38.908, 01 | 164,00 1 | 8,2140 8 | 22,7993 | 0 | 1,3498 5 | 1,1640 3 |
| 4 | 380,4 04 | 284,887 | 0 | 31.555, 02 | 167,06 1 | 9,2189 9 | 23,6339 | 0 | 1,4457 4 | 1,1639 9 |
| 4 | 439,4 71 | 373,463 | 0 | 25.268, 23 | 170,91 4 | 10,388 2 | 24,1781 | 0 | 1,5520 3 | 1,1646 4 |
| 4 | 497,9 39 | 467,098 | 0 | 20.717, 26 | 174,90 5 | 11,514 6 | 24,4758 | 0 | 1,6498 4 | 1,1654 8 |
| 4 | 510,3 51 | 487,727 | 0 | 20.052, 98 | 175,77 4 | 11,750 8 | 24,5206 | 0 | 1,6698 3 | 1,1656 6 |
| 4 | 595,4 | 635,378 | 0 | 15.632, | 181,91 | 13,337 | 24,7293 | 0 | 1,8001 | 1,1668 |

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|---|-------------|--------------|---|----------------|----------------|----------------|----------|---|--------------|-------------|
| | 07 | | | 38 | 1 | 6 | | | 1 | 3 |
| 4 | 697,4 75 | 826,548 | 0 | 12.058, 57 | 189,66 9 | 15,182 4 | 24,8518 | 0 | 1,9437 4 | 1,1679 8 |
| 4 | 819,9 56 | 1074,42 | 0 | 9.169,5 6 | 199,48 2 | 17,320 7 | 24,9209 | 0 | 2,1014 4 | 1,1690 5 |
| 4 | 917,4 01 | 1284,91 | 0 | 7.622,5 4 | 207,63 9 | 18,967 9 | 24,9486 | 0 | 2,2174 6 | 1,1696 9 |
| | | | | | | | | | | |
| 5 | 117,9 64 | -18,081 | 0 | 1,00 | 0,0017 7245 | 0,9259 14 | 24,6396 | 0 | 0,5195 59 | 1,1739 6 |
| 5 | 118,0 64 | - 18,0359 | 0 | 461.65 6,22 | 2,0237 8 | 0,0093 1864 | -78,6653 | 0 | 0,4428 11 | 1,5103 5 |
| 5 | 118,1 64 | - 17,9916 | 0 | 480.86 1,15 | 2,8639 3 | 0,0173 093 | -82,1478 | 0 | 0,4429 54 | 1,5249 3 |
| 5 | 118,2 64 | - 17,9473 | 0 | 485.36 4,41 | 3,5174 1 | 0,0254 296 | -82,8111 | 0 | 0,4432 37 | 1,5271 9 |
| 5 | 118,3 64 | - 17,9029 | 0 | 486.83 1,80 | 4,0782 3 | 0,0335 316 | -82,9902 | 0 | 0,4435 2 | 1,5276 2 |
| 5 | 118,4 64 | - 17,8586 | 0 | 487.20 5,23 | 4,5803 8 | 0,0415 938 | -83,0129 | 0 | 0,4438 23 | 1,5275 5 |
| 5 | 118,5 64 | - 17,8142 | 0 | 487.14 1,97 | 5,0408 7 | 0,0496 053 | -82,9859 | 0 | 0,4441 23 | 1,5273 7 |
| 5 | 118,6 64 | - 17,7698 | 0 | 487.78 8,02 | 5,4701 1 | 0,0573 986 | -83,1847 | 0 | 0,4442 69 | 1,5285 4 |
| 5 | 118,7 64 | - 17,7253 | 0 | 489.80 9,92 | 5,8749 | 0,0647 883 | -83,7671 | 0 | 0,4441 87 | 1,5319 |
| 5 | 118,8 64 | - 17,6809 | 0 | 492.78 5,15 | 6,2601 7 | 0,0717 692 | -84,6028 | 0 | 0,4439 87 | 1,5366 9 |
| 5 | 118,9 64 | - 17,6365 | 0 | 496.26 8,08 | 6,6293 1 | 0,0783 921 | -85,5637 | 0 | 0,4437 55 | 1,5422 2 |
| 5 | 119,0 64 | - 17,5922 | 0 | 499.97 5,67 | 6,9847 8 | 0,0847 099 | -86,5719 | 0 | 0,4435 32 | 1,5480 5 |
| 5 | 119,1 64 | - 17,5478 | 0 | 503.75 5,71 | 7,3283 | 0,0907 673 | -87,5881 | 0 | 0,4433 29 | 1,5539 6 |
| 5 | 119,2 64 | - 17,5035 | 0 | 507.52 3,27 | 7,6613 8 | 0,0965 966 | -88,591 | 0 | 0,4431 5 | 1,5598 4 |
| 5 | 119,3 64 | - 17,4592 | 0 | 511.22 8,47 | 7,9854 1 | 0,1022 21 | -89,5687 | 0 | 0,4429 99 | 1,5656 1 |

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|---|-------------|--------------|---|----------------|-------------|--------------|----------|---|--------------|-------------|
| 5 | 119,4 64 | - 17,4149 | 0 | 514.84 1,26 | 8,3017 5 | 0,1076 56 | -90,5141 | 0 | 0,4428 76 | 1,5712 3 |
| 5 | 119,5 64 | - 17,3706 | 0 | 518.34 9,07 | 8,611 | 0,1129 22 | -91,4258 | 0 | 0,4427 76 | 1,5766 9 |
| 5 | 119,6 64 | - 17,3263 | 0 | 521.74 2,50 | 8,9141 5 | 0,1180 32 | -92,3021 | 0 | 0,4427 | 1,5819 8 |
| 5 | 119,7 64 | - 17,2821 | 0 | 525.01 8,96 | 9,2116 1 | 0,123 | -93,1436 | 0 | 0,4426 44 | 1,5871 |
| 5 | 119,8 64 | - 17,2378 | 0 | 528.17 7,77 | 9,5039 6 | 0,1278 38 | -93,9508 | 0 | 0,4426 08 | 1,5920 4 |
| 5 | 119,9 64 | - 17,1936 | 0 | 531.22 0,48 | 9,7915 7 | 0,1325 55 | -94,7248 | 0 | 0,4425 89 | 1,5968 2 |
| 5 | 120,0 84 | - 17,1404 | 0 | 534.72 2,13 | 10,131 | 0,1380 7 | -95,6117 | 0 | 0,4425 87 | 1,6023 4 |
| 5 | 120,2 28 | - 17,0767 | 0 | 538.71 6,59 | 10,531 | 0,1444 91 | -96,6189 | 0 | 0,4426 14 | 1,6086 6 |
| 5 | 120,4 01 | - 17,0002 | 0 | 543.22 7,56 | 11,001 4 | 0,1519 43 | -97,751 | 0 | 0,4426 83 | 1,6158 5 |
| 5 | 120,6 08 | - 16,9084 | 0 | 548.26 9,50 | 11,553 5 | 0,1605 61 | -99,0105 | 0 | 0,4428 07 | 1,6239 4 |
| 5 | 120,8 57 | - 16,7982 | 0 | 553.83 6,62 | 12,200 2 | 0,1704 97 | -100,395 | 0 | 0,4430 03 | 1,6329 7 |
| 5 | 121,1 55 | - 16,6659 | 0 | 559.90 2,94 | 12,957 1 | 0,1818 99 | -101,898 | 0 | 0,4432 92 | 1,6429 3 |
| 5 | 121,5 14 | -16,507 | 0 | 566.42 0,80 | 13,843 1 | 0,1949 27 | -103,502 | 0 | 0,4436 96 | 1,6537 3 |
| 5 | 121,9 44 | - 16,3161 | 0 | 573.30 2,73 | 14,879 4 | 0,2098 71 | -105,1 | 0 | 0,4442 46 | 1,6644 1 |
| 5 | 122,4 6 | - 16,0867 | 0 | 580.50 4,14 | 16,089 8 | 0,2271 53 | -106,521 | 0 | 0,4449 65 | 1,6732 4 |
| 5 | 123,0 79 | - 15,8109 | 0 | 588.77 5,39 | 17,504 4 | 0,2465 28 | -107,882 | 0 | 0,4457 7 | 1,6807 7 |
| 5 | 123,8 22 | - 15,4793 | 0 | 598.63 3,86 | 19,159 2 | 0,2676 92 | -109,275 | 0 | 0,4466 54 | 1,6875 |
| 5 | 124,7 13 | - 15,0806 | 0 | 609.59 6,45 | 21,096 6 | 0,2910 61 | -110,517 | 0 | 0,4477 76 | 1,6918 7 |
| 5 | 125,7 83 | - 14,6007 | 0 | 620.95 3,50 | 23,444 4 | 0,3163 68 | -111,351 | 0 | 0,4493 15 | 1,6916 2 |



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|---|---------|-------------|---|------------|---------|----------|-----------|---|----------|---------|
| 5 | 127,067 | - | 0 | 631.737,71 | 26,3572 | 0,343767 | -111,4280 | 0 | 0,451505 | 1,68371 |
| 5 | 128,608 | - | 0 | 640.845,01 | 29,9589 | 0,374658 | -110,4080 | 0 | 0,454493 | 1,66556 |
| 5 | 130,457 | - | 0 | 647.144,67 | 34,3846 | 0,410984 | -108,0360 | 0 | 0,458279 | 1,63602 |
| 5 | 132,675 | - | 0 | 649.531,66 | 39,7969 | 0,454953 | -104,1830 | 0 | 0,462724 | 1,59595 |
| 5 | 135,338 | - | 0 | 646.979,18 | 46,3928 | 0,508934 | -98,85760 | 0 | 0,46761 | 1,548 |
| 5 | 138,533 | - | 0 | 638.484,53 | 54,3939 | 0,575816 | -92,13740 | 0 | 0,472733 | 1,49552 |
| 5 | 142,366 | - | 0 | 623.106,90 | 64,0344 | 0,659433 | -84,15730 | 0 | 0,477917 | 1,44195 |
| 5 | 146,967 | - | 0 | 599.949,50 | 75,5417 | 0,76533 | -75,04620 | 0 | 0,483039 | 1,39003 |
| 5 | 152,488 | - | 0 | 568.042,60 | 89,1074 | 0,902281 | -64,85850 | 0 | 0,488034 | 1,34141 |
| 5 | 156,58 | 8,74057E-13 | 0 | 542.513,57 | 98,9112 | 1,01262 | -57,76080 | 0 | 0,49115 | 1,31241 |
| 5 | 156,58 | 8,74057E-13 | 0 | 543.486,49 | 98,718 | 0,987937 | -57,99480 | 0 | 0,50394 | 1,31326 |
| 5 | 159,112 | 1,26898 | 0 | 526.354,53 | 104,612 | 1,07679 | -53,59730 | 0 | 0,499207 | 1,29703 |
| 5 | 167,062 | 5,22829 | 0 | 472.155,28 | 122,418 | 1,34929 | -40,85210 | 0 | 0,498555 | 1,25621 |
| 5 | 176,602 | 10,0113 | 0 | 408.263,60 | 141,681 | 1,69673 | -27,33940 | 0 | 0,510611 | 1,22108 |
| 5 | 188,049 | 16,2537 | 0 | 324.935,74 | 159,611 | 2,09236 | -11,83190 | 0 | 0,584348 | 1,18969 |
| 5 | 195,635 | 20,9507 | 0 | 256.993,38 | 166,179 | 2,51008 | -1,268950 | 0 | 0,656836 | 1,17445 |
| 5 | 195,635 | 20,9507 | 0 | 256.993,38 | 166,179 | 2,51008 | -1,268950 | 0 | 0,656836 | 1,17445 |
| 5 | 201,786 | 25,2519 | 0 | 189.383,34 | 167,142 | 3,07512 | 7,245190 | 0 | 0,747555 | 1,16757 |
| 5 | 218,271 | 39,268 | 0 | 109.530,42 | 168,609 | 4,34056 | 14,83420 | 0 | 0,922109 | 1,16829 |

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|---|---------|----------|---|------------|------------|------------|----------|---|----------|---------|
| 5 | 238,052 | 58,2124 | 0 | 90.007,53 | 169,546 | 4,88962 | 16,724 | 0 | 0,990689 | 1,16789 |
| 5 | 261,79 | 82,6842 | 0 | 72.327,56 | 170,733 | 5,5738 | 18,2066 | 0 | 1,07142 | 1,16856 |
| 5 | 290,275 | 114,531 | 0 | 57.990,46 | 172,245 | 6,34399 | 19,3766 | 0 | 1,15832 | 1,16931 |
| 5 | 324,457 | 155,475 | 0 | 47.882,79 | 174,149 | 7,09034 | 21,338 | 0 | 1,23681 | 1,16588 |
| 5 | 365,476 | 208,021 | 0 | 39.075,72 | 176,542 | 7,95203 | 22,6845 | 0 | 1,32407 | 1,16438 |
| 5 | 414,698 | 275,604 | 0 | 31.525,89 | 179,555 | 8,95134 | 23,5793 | 0 | 1,42065 | 1,16417 |
| 5 | 473,765 | 362,718 | 0 | 25.125,23 | 183,353 | 10,1145 | 24,1543 | 0 | 1,52761 | 1,16473 |
| 5 | 531,742 | 454,145 | 0 | 20.592,59 | 187,26 | 11,2263 | 24,4631 | 0 | 1,62519 | 1,16553 |
| 5 | 544,645 | 475,279 | 0 | 19.859,02 | 188,152 | 11,4708 | 24,5116 | 0 | 1,64612 | 1,16572 |
| 5 | 629,701 | 620,943 | 0 | 15.413,59 | 194,22 | 13,0513 | 24,7267 | 0 | 1,7771 | 1,16686 |
| 5 | 731,769 | 809,803 | 0 | 11.851,62 | 201,9 | 14,8902 | 24,8515 | 0 | 1,92149 | 1,16801 |
| 5 | 854,25 | 1055 | 0 | 8.988,56 | 211,625 | 17,0232 | 24,9215 | 0 | 2,08 | 1,16906 |
| 5 | 945,243 | 1249,29 | 0 | 7.562,70 | 219,171 | 18,5598 | 24,948 | 0 | 2,18912 | 1,16966 |
| 6 | 151,272 | -19,457 | 0 | 1,00 | 0,00177245 | 0,925914 | 24,6396 | 0 | 0,519559 | 1,17396 |
| 6 | 151,372 | -19,4112 | 0 | 432.939,92 | 2,08851 | 0,00895578 | -74,7635 | 0 | 0,450795 | 1,49948 |
| 6 | 151,472 | -19,3661 | 0 | 451.126,77 | 2,95652 | 0,0166657 | -78,1709 | 0 | 0,450938 | 1,51362 |
| 6 | 151,572 | -19,321 | 0 | 455.368,16 | 3,63386 | 0,0244762 | -78,8191 | 0 | 0,451195 | 1,51584 |
| 6 | 151,672 | -19,2759 | 0 | 456.705,98 | 4,21325 | 0,032286 | -78,9889 | 0 | 0,451464 | 1,51627 |
| 6 | 151,7 | - | 0 | 457.04 | 4,7300 | 0,0400 | -79,0116 | 0 | 0,4517 | 1,5162 |

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|---|-------|---------|---|--------|--------|--------|----------|---|--------|--------|
| | 72 | 19,2307 | | 4,67 | 5 | 794 | | | 27 | 2 |
| 6 | 151,8 | - | 0 | 456.95 | 5,2033 | 0,0478 | -78,9801 | 0 | 0,4519 | 1,5160 |
| | 72 | 19,1856 | | 9,67 | 3 | 402 | | | 82 | 3 |
| 6 | 151,9 | - | 0 | 457.08 | 5,6437 | 0,0554 | -79,041 | 0 | 0,4521 | 1,5164 |
| | 72 | 19,1403 | | 2,29 | | 916 | | | 68 | 3 |
| 6 | 152,0 | - | 0 | 458.35 | 6,0591 | 0,0628 | -79,4397 | 0 | 0,4521 | 1,5187 |
| | 72 | 19,0951 | | 1,11 | 1 | 087 | | | 7 | 2 |
| 6 | 152,1 | - | 0 | 460.62 | 6,4546 | 0,0697 | -80,1238 | 0 | 0,4520 | 1,5226 |
| | 72 | 19,0499 | | 9,08 | 6 | 363 | | | 37 | |
| 6 | 152,2 | - | 0 | 463.56 | 6,8336 | 0,0762 | -80,9848 | 0 | 0,4518 | 1,5274 |
| | 72 | 19,0047 | | 5,01 | 1 | 982 | | | 45 | 9 |
| 6 | 152,3 | - | 0 | 466.86 | 7,1983 | 0,0825 | -81,9346 | 0 | 0,4516 | 1,5328 |
| | 72 | 18,9595 | | 1,58 | 7 | 416 | | | 44 | 9 |
| 6 | 152,4 | - | 0 | 470.32 | 7,5507 | 0,0885 | -82,919 | 0 | 0,4514 | 1,5385 |
| | 72 | 18,9144 | | 7,37 | 9 | 105 | | | 56 | 1 |
| 6 | 152,5 | - | 0 | 473.84 | 7,8922 | 0,0942 | -83,9082 | 0 | 0,4512 | 1,5442 |
| | 72 | 18,8692 | | 8,90 | 8 | 455 | | | 85 | |
| 6 | 152,6 | - | 0 | 477.35 | 8,2242 | 0,0997 | -84,8839 | 0 | 0,4511 | 1,5498 |
| | 72 | 18,8241 | | 5,38 | 6 | 737 | | | 34 | 5 |
| 6 | 152,7 | -18,779 | 0 | 480.81 | 8,5478 | 0,1051 | -85,8381 | 0 | 0,4510 | 1,5554 |
| | 72 | | | 4,78 | 2 | 13 | | | 05 | 1 |
| 6 | 152,8 | - | 0 | 484.19 | 8,8642 | 0,1102 | -86,7639 | 0 | 0,4508 | 1,5608 |
| | 72 | 18,7339 | | 9,85 | 8 | 76 | | | 99 | 5 |
| 6 | 152,9 | - | 0 | 487.49 | 9,1740 | 0,1152 | -87,6602 | 0 | 0,4508 | 1,5661 |
| | 72 | 18,6888 | | 9,01 | 2 | 85 | | | 11 | 5 |
| 6 | 153,0 | - | 0 | 490.70 | 9,4781 | 0,1201 | -88,5249 | 0 | 0,4507 | 1,5713 |
| | 72 | 18,6438 | | 2,81 | 3 | 44 | | | 43 | |
| 6 | 153,1 | - | 0 | 493.80 | 9,7767 | 0,1248 | -89,3587 | 0 | 0,4506 | 1,5763 |
| | 72 | 18,5987 | | 8,75 | 4 | 74 | | | 91 | |
| 6 | 153,2 | - | 0 | 496.81 | 10,070 | 0,1294 | -90,1613 | 0 | 0,4506 | 1,5811 |
| | 72 | 18,5536 | | 4,51 | 6 | 79 | | | 56 | 5 |
| 6 | 153,3 | - | 0 | 500.29 | 10,417 | 0,1348 | -91,0851 | 0 | 0,4506 | 1,5867 |
| | 92 | 18,4995 | | 1,26 | 3 | 58 | | | 31 | 8 |
| 6 | 153,5 | - | 0 | 504.27 | 10,825 | 0,1411 | -92,1389 | 0 | 0,4506 | 1,5932 |
| | 36 | 18,4347 | | 8,86 | 6 | 17 | | | 26 | 5 |
| 6 | 153,7 | - | 0 | 508.80 | 11,305 | 0,1483 | -93,3295 | 0 | 0,4506 | 1,6006 |
| | 09 | 18,3568 | | 9,72 | 6 | 73 | | | 51 | 5 |
| 6 | 153,9 | - | 0 | 513.90 | 11,869 | 0,1567 | -94,6603 | 0 | 0,4507 | 1,6090 |



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|---|-------|---------|---|--------|--------|--------|----------|---|--------|--------|
| | 16 | 18,2633 | | 3,73 | 1 | 5 | | | 18 | 1 |
| 6 | 154,1 | - | 0 | 519.56 | 12,529 | 0,1663 | -96,1306 | 0 | 0,4508 | 1,6183 |
| | 65 | 18,1512 | | 4,69 | 7 | 81 | | | 44 | 9 |
| 6 | 154,4 | - | 0 | 525.77 | 13,303 | 0,1774 | -97,7337 | 0 | 0,4510 | 1,6287 |
| | 64 | 18,0165 | | 0,66 | | 12 | | | 49 | 8 |
| 6 | 154,8 | - | 0 | 532.47 | 14,207 | 0,1899 | -99,4585 | 0 | 0,4513 | 1,6401 |
| | 22 | 17,8548 | | 8,07 | 4 | 95 | | | 54 | 7 |
| 6 | 155,2 | - | 0 | 539.61 | 15,264 | 0,2043 | -101,253 | 0 | 0,4517 | 1,6521 |
| | 52 | 17,6607 | | 2,01 | 3 | 39 | | | 84 | 6 |
| 6 | 155,7 | - | 0 | 547.06 | 16,497 | 0,2208 | -102,944 | 0 | 0,4523 | 1,6631 |
| | 68 | 17,4274 | | 1,13 | 9 | 46 | | | 69 | 4 |
| 6 | 156,3 | - | 0 | 555.11 | 17,937 | 0,2397 | -104,45 | 0 | 0,4530 | 1,6720 |
| | 87 | 17,1471 | | 6,49 | 2 | 09 | | | 84 | 2 |
| 6 | 157,1 | - | 0 | 564.75 | 19,618 | 0,2603 | -105,982 | 0 | 0,4538 | 1,6800 |
| | 3 | 16,8102 | | 5,86 | 8 | 48 | | | 39 | 9 |
| 6 | 158,0 | - | 0 | 575.83 | 21,582 | 0,2829 | -107,447 | 0 | 0,4547 | 1,6865 |
| | 22 | 16,4051 | | 6,39 | 5 | 16 | | | 49 | |
| 6 | 159,0 | - | 0 | 587.60 | 23,916 | 0,3076 | -108,572 | 0 | 0,4559 | 1,6889 |
| | 92 | 15,9179 | | 4,57 | 8 | 67 | | | 81 | 2 |
| 6 | 160,3 | - | 0 | 599.12 | 26,803 | 0,3343 | -109,008 | 0 | 0,4577 | 1,6843 |
| | 75 | 15,3313 | | 9,09 | 8 | 47 | | | 38 | |
| 6 | 161,9 | - | 0 | 609.36 | 30,367 | 0,3642 | -108,412 | 0 | 0,4601 | 1,6699 |
| | 16 | 14,6242 | | 7,77 | | 32 | | | 75 | 1 |
| 6 | 163,7 | - | 0 | 617.24 | 34,752 | 0,3990 | -106,511 | 0 | 0,4633 | 1,6442 |
| | 65 | 13,7705 | | 0,00 | 5 | 15 | | | 31 | 1 |
| 6 | 165,9 | - | 0 | 621.56 | 40,128 | 0,4408 | -103,113 | 0 | 0,4671 | 1,6072 |
| | 84 | 12,7383 | | 3,48 | | 91 | | | 29 | 7 |
| 6 | 168,6 | - | 0 | 621.09 | 46,686 | 0,4924 | -98,1463 | 0 | 0,4713 | 1,5610 |
| | 46 | 11,4889 | | 4,72 | 6 | 87 | | | 96 | 3 |
| 6 | 171,8 | - | 0 | 614.83 | 54,66 | 0,5565 | -91,7249 | 0 | 0,4759 | 1,5092 |
| | 41 | 9,97542 | | 8,72 | | 28 | | | 21 | 3 |
| 6 | 175,6 | - | 0 | 601.80 | 64,294 | 0,6367 | -83,9793 | 0 | 0,4805 | 1,4554 |
| | 75 | 8,14181 | | 1,41 | 1 | 38 | | | 43 | 4 |
| 6 | 180,2 | - | 0 | 581.19 | 75,834 | 0,7383 | -75,0711 | 0 | 0,4851 | 1,4027 |
| | 75 | 5,92027 | | 9,89 | 8 | 15 | | | 36 | 3 |
| 6 | 185,7 | - | 0 | 552.32 | 89,505 | 0,8690 | -65,1261 | 0 | 0,4896 | 1,3531 |
| | 96 | 3,22917 | | 5,88 | 4 | 79 | | | 31 | 7 |
| 6 | 192,3 | 4,94082 | 0 | 514.41 | 105,31 | 1,0407 | -54,2316 | 0 | 0,4939 | 1,3080 |



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|---|-------------|-----------------|---|-------------------|-------------|-------------|---------------|---|--------------|-------------|
| | 6 | E-15 | | 6,60 | 8 | 7 | | | 85 | 7 |
| 6 | 192,3 6 | 4,94082 E-15 | 0 | 515.37 0,26 | 105,11 7 | 1,0177 3 | -54,4559 | 0 | 0,5056 42 | 1,3088 5 |
| 6 | 192,4 2 | 0,03036 61 | 0 | 514.98 7,46 | 105,25 8 | 1,0198 7 | -54,3547 | 0 | 0,5054 84 | 1,3084 7 |
| 6 | 200,3 7 | 4,01345 | 0 | 465.11 5,30 | 123,45 6 | 1,2852 3 | -42,0246 | 0 | 0,4998 06 | 1,2667 1 |
| 6 | 209,9 1 | 8,79428 | 0 | 405.10 7,79 | 143,58 3 | 1,6360 4 | -28,8428 | 0 | 0,5027 83 | 1,2304 2 |
| 6 | 221,3 57 | 14,8813 | 0 | 332.59 2,66 | 163,69 1 | 1,9808 4 | -14,7041 | 0 | 0,5649 43 | 1,1993 7 |
| 6 | 233,0 3 | 21,9956 | 0 | 242.94 4,98 | 176,84 | 2,5344 5 | - 0,277624 | 0 | 0,6612 87 | 1,1767 3 |
| 6 | 233,0 3 | 21,9956 | 0 | 242.94 4,98 | 176,84 | 2,5342 9 | - 0,277624 | 0 | 0,6613 28 | 1,1767 3 |
| 6 | 235,0 94 | 23,3857 | 0 | 226.33 6,02 | 177,70 4 | 2,6530 8 | 2,12419 | 0 | 0,6817 12 | 1,1737 3 |
| 6 | 251,5 79 | 36,3754 | 0 | 118.67 4,22 | 179,42 3 | 4,0101 4 | 13,8248 | 0 | 0,8792 98 | 1,1689 3 |
| 6 | 271,3 6 | 54,7529 | 0 | 92.410, 93 | 180,39 | 4,6760 6 | 16,356 | 0 | 0,9645 59 | 1,1685 6 |
| 6 | 295,0 98 | 78,5978 | 0 | 73.962, 67 | 181,55 | 5,3429 8 | 17,977 | 0 | 1,0446 4 | 1,1688 8 |
| 6 | 323,5 83 | 109,697 | 0 | 58.746, 79 | 183,03 1 | 6,1171 7 | 19,1691 | 0 | 1,1326 2 | 1,1698 |
| 6 | 357,7 65 | 149,79 | 0 | 48.230, 10 | 184,90 1 | 6,8566 9 | 21,1409 | 0 | 1,2122 9 | 1,1664 |
| 6 | 398,7 84 | 201,345 | 0 | 39.167, 61 | 187,25 5 | 7,7123 6 | 22,5892 | 0 | 1,3001 9 | 1,1646 1 |
| 6 | 448,0 06 | 267,766 | 0 | 31.456, 62 | 190,22 2 | 8,7053 7 | 23,5378 | 0 | 1,3973 1 | 1,1642 5 |
| 6 | 507,0 73 | 353,518 | 0 | 24.956, 75 | 193,97 | 9,8617 6 | 24,1392 | 0 | 1,5048 2 | 1,1647 6 |
| 6 | 565,3 14 | 444,061 | 0 | 20.391, 26 | 197,84 6 | 10,972 8 | 24,4592 | 0 | 1,6033 1 | 1,1655 5 |
| 6 | 577,9 53 | 464,484 | 0 | 19.654, 54 | 198,71 | 11,211 1 | 24,5079 | 0 | 1,6238 8 | 1,1657 3 |
| 6 | 663,0 | 608,284 | 0 | 15.207, 204,71 | | 12,784 | 24,7271 | 0 | 1,7554 | 1,1668 |

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|---|---------|----------|---|------------|------------|------------|----------|---|----------|---------|
| | 09 | | | 96 | 2 | 7 | | | 8 | 7 |
| 6 | 765,077 | 794,971 | 0 | 11.661,67 | 212,317 | 14,617 | 24,853 | 0 | 1,90053 | 1,16801 |
| 6 | 887,558 | 1037,65 | 0 | 8.818,51 | 221,958 | 16,7441 | 24,923 | 0 | 2,05975 | 1,16907 |
| 6 | 974,6 | 1221,55 | 0 | 7.472,61 | 229,115 | 18,2115 | 24,9485 | 0 | 2,16473 | 1,16965 |
| | | | | | | | | | | |
| 7 | 183,88 | -20,5773 | 0 | 1,00 | 0,00177245 | 0,925914 | 24,6396 | 0 | 0,519559 | 1,17396 |
| 7 | 183,98 | -20,531 | 0 | 410.997,04 | 2,15204 | 0,00869022 | -71,8135 | 0 | 0,456463 | 1,49174 |
| 7 | 184,08 | -20,4853 | 0 | 428.373,41 | 3,04583 | 0,0162065 | -75,1531 | 0 | 0,456586 | 1,50552 |
| 7 | 184,18 | -20,4396 | 0 | 432.441,94 | 3,74104 | 0,0238384 | -75,7882 | 0 | 0,456809 | 1,50768 |
| 7 | 184,28 | -20,3939 | 0 | 433.793,88 | 4,33452 | 0,0314784 | -75,9656 | 0 | 0,457017 | 1,50815 |
| 7 | 184,38 | -20,3482 | 0 | 434.174,27 | 4,86587 | 0,0390812 | -75,9984 | 0 | 0,457236 | 1,50814 |
| 7 | 184,48 | -20,3025 | 0 | 434.105,06 | 5,35256 | 0,0466514 | -75,9693 | 0 | 0,457465 | 1,50797 |
| 7 | 184,58 | -20,2567 | 0 | 433.922,21 | 5,80566 | 0,0541645 | -75,9448 | 0 | 0,457678 | 1,5079 |
| 7 | 184,68 | -20,211 | 0 | 434.559,23 | 6,23246 | 0,0614336 | -76,178 | 0 | 0,457756 | 1,50928 |
| 7 | 184,78 | -20,1652 | 0 | 436.299,35 | 6,63842 | 0,0683253 | -76,7379 | 0 | 0,457681 | 1,51245 |
| 7 | 184,88 | -20,1194 | 0 | 438.873,80 | 7,02697 | 0,0748338 | -77,5354 | 0 | 0,457513 | 1,51694 |
| 7 | 184,98 | -20,0737 | 0 | 441.937,14 | 7,40111 | 0,0809997 | -78,4637 | 0 | 0,457315 | 1,52218 |
| 7 | 185,08 | -20,028 | 0 | 445.186,64 | 7,76255 | 0,0868943 | -79,4314 | 0 | 0,457135 | 1,52765 |
| 7 | 185,18 | -19,9822 | 0 | 448.480,36 | 8,11247 | 0,0925645 | -80,3979 | 0 | 0,456982 | 1,53314 |
| 7 | 185,28 | -19,9366 | 0 | 451.782,80 | 8,45298 | 0,0980154 | -81,3562 | 0 | 0,456848 | 1,53861 |

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|---|---------|----------|---|------------|---------|----------|----------|---|----------|---------|
| 7 | 185,38 | -19,8909 | 0 | 455.065,14 | 8,78493 | 0,103274 | -82,3002 | 0 | 0,456732 | 1,54404 |
| 7 | 185,48 | -19,8452 | 0 | 458.292,27 | 9,10942 | 0,108356 | -83,2208 | 0 | 0,456633 | 1,54937 |
| 7 | 185,58 | -19,7995 | 0 | 461.463,14 | 9,42633 | 0,113293 | -84,1195 | 0 | 0,456548 | 1,55461 |
| 7 | 185,68 | -19,7539 | 0 | 464.551,41 | 9,73737 | 0,118078 | -84,9889 | 0 | 0,45648 | 1,55972 |
| 7 | 185,78 | -19,7082 | 0 | 467.566,39 | 10,0422 | 0,122741 | -85,8331 | 0 | 0,456423 | 1,56472 |
| 7 | 185,88 | -19,6626 | 0 | 470.492,62 | 10,3421 | 0,127277 | -86,6479 | 0 | 0,456381 | 1,56957 |
| 7 | 186 | -19,6078 | 0 | 473.899,63 | 10,6953 | 0,132581 | -87,5918 | 0 | 0,456345 | 1,57524 |
| 7 | 186,144 | -19,5421 | 0 | 477.828,68 | 11,111 | 0,138749 | -88,6739 | 0 | 0,456322 | 1,5818 |
| 7 | 186,317 | -19,4633 | 0 | 482.324,49 | 11,5994 | 0,145895 | -89,9043 | 0 | 0,456321 | 1,58933 |
| 7 | 186,524 | -19,3686 | 0 | 487.409,94 | 12,172 | 0,154143 | -91,2869 | 0 | 0,456352 | 1,59791 |
| 7 | 186,773 | -19,2551 | 0 | 493.092,07 | 12,8436 | 0,163602 | -92,8207 | 0 | 0,456434 | 1,60755 |
| 7 | 187,072 | -19,1188 | 0 | 499.353,03 | 13,6311 | 0,174393 | -94,499 | 0 | 0,456584 | 1,61827 |
| 7 | 187,43 | -18,9551 | 0 | 506.147,55 | 14,5538 | 0,186649 | -96,3096 | 0 | 0,456828 | 1,63005 |
| 7 | 187,86 | -18,7586 | 0 | 513.398,87 | 15,6325 | 0,200555 | -98,227 | 0 | 0,45719 | 1,64277 |
| 7 | 188,376 | -18,5226 | 0 | 520.987,01 | 16,8867 | 0,216572 | -100,068 | 0 | 0,457689 | 1,65479 |
| 7 | 188,995 | -18,239 | 0 | 528.999,05 | 18,3466 | 0,235003 | -101,713 | 0 | 0,458324 | 1,66481 |
| 7 | 189,738 | -17,8982 | 0 | 538.443,42 | 20,0499 | 0,255268 | -103,368 | 0 | 0,459002 | 1,67404 |
| 7 | 190,63 | -17,4886 | 0 | 549.446,95 | 22,0379 | 0,277333 | -104,996 | 0 | 0,459781 | 1,68199 |
| 7 | 191,7 | -16,9961 | 0 | 561.511,87 | 24,3682 | 0,301604 | -106,39 | 0 | 0,46079 | 1,68684 |



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|---|---------|-------------|---|------------|---------|----------|-----------|---|----------|---------|
| 7 | 192,984 | -16,4036 | 0 | 573.822,86 | 27,2116 | 0,327747 | -107,236 | 0 | 0,462198 | 1,6859 |
| 7 | 194,524 | -15,69 | 0 | 585.134,20 | 30,7663 | 0,356282 | -107,066 | 0 | 0,464255 | 1,6752 |
| 7 | 196,373 | -14,8291 | 0 | 594.079,90 | 35,1264 | 0,389816 | -105,498 | 0 | 0,467019 | 1,65218 |
| 7 | 198,592 | -13,7892 | 0 | 599.561,95 | 40,4688 | 0,430317 | -102,379 | 0 | 0,47039 | 1,61713 |
| 7 | 201,254 | -12,5318 | 0 | 600.513,48 | 46,9984 | 0,480084 | -97,6812 | 0 | 0,474219 | 1,57223 |
| 7 | 204,449 | -11,0101 | 0 | 595.920,30 | 54,9529 | 0,541864 | -91,4751 | 0 | 0,478336 | 1,52084 |
| 7 | 208,283 | -9,16791 | 0 | 584.834,63 | 64,59 | 0,619234 | -83,9034 | 0 | 0,482577 | 1,46668 |
| 7 | 212,883 | -6,93766 | 0 | 566.229,84 | 76,1557 | 0,717389 | -75,1315 | 0 | 0,486805 | 1,41316 |
| 7 | 218,404 | -4,23829 | 0 | 539.440,71 | 89,8964 | 0,843536 | -65,3334 | 0 | 0,490956 | 1,36276 |
| 7 | 225,029 | -0,971915 | 0 | 503.742,78 | 106,005 | 1,00944 | -54,5694 | 0 | 0,49502 | 1,31661 |
| 7 | 226,99 | 5,73297E-15 | 0 | 492.664,35 | 110,667 | 1,06225 | -51,5491 | 0 | 0,496093 | 1,30513 |
| 7 | 226,99 | 5,73297E-15 | 0 | 493.600,82 | 110,461 | 1,04042 | -51,7658 | 0 | 0,50694 | 1,30586 |
| 7 | 232,978 | 3,01288 | 0 | 457.913,89 | 124,288 | 1,23671 | -42,7425 | 0 | 0,501371 | 1,27485 |
| 7 | 242,518 | 7,80271 | 0 | 400.380,67 | 144,965 | 1,5712 | -29,7188 | 0 | 0,503386 | 1,23749 |
| 7 | 253,966 | 13,8067 | 0 | 332.388,43 | 166,293 | 1,91317 | -16,1025 | 0 | 0,553523 | 1,20618 |
| 7 | 267,703 | 22,0551 | 0 | 232.670,59 | 183,866 | 2,48959 | 0,0896545 | 0 | 0,655767 | 1,18 |
| 7 | 268,421 | 22,5288 | 0 | 226.855,74 | 184,458 | 2,53095 | 0,96556 | 0 | 0,662583 | 1,17877 |
| 7 | 268,421 | 22,5288 | 0 | 226.855,74 | 184,458 | 2,52995 | 0,96556 | 0 | 0,662844 | 1,17877 |
| 7 | 284,1 | 34,322 | 0 | 125.97 | 187,50 | 3,6782 | 12,9363 | 0 | 0,8353 | 1,1697 |



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|---|-------------|--------------|---|----------------|----------------|---------------|----------|---|--------------|-------------|
| | 87 | | | 8,48 | 9 | 7 | | | 22 | 8 |
| 7 | 303,9 68 | 52,0688 | 0 | 91.404, 21 | 188,52 8 | 4,4574 7 | 16,1819 | 0 | 0,9375 59 | 1,1693 8 |
| 7 | 327,7 06 | 75,2646 | 0 | 71.913, 44 | 189,65 9 | 5,1067 3 | 17,8936 | 0 | 1,0170 1 | 1,1693 8 |
| 7 | 356,1 91 | 105,583 | 0 | 55.727, 37 | 191,10 7 | 5,8888 9 | 19,1563 | 0 | 1,1072 | 1,1702 2 |
| 7 | 390,3 73 | 144,805 | 0 | 44.995, 89 | 192,94 | 6,6167 5 | 21,1458 | 0 | 1,1868 4 | 1,1667 4 |
| 7 | 431,3 92 | 195,324 | 0 | 35.898, 44 | 195,25 2 | 7,4652 2 | 22,6248 | 0 | 1,2749 4 | 1,1648 3 |
| 7 | 480,6 14 | 260,52 | 0 | 28.322, 42 | 198,17 1 | 8,4491 4 | 23,5779 | 0 | 1,3725 1 | 1,1644 4 |
| 7 | 539,6 81 | 344,831 | 0 | 22.003, 20 | 201,86 3 | 9,5950 8 | 24,1732 | 0 | 1,4807 2 | 1,1649 4 |
| 7 | 588,6 24 | 419,357 | 0 | 18.323, 40 | 205,06 5 | 10,524 9 | 24,4472 | 0 | 1,5641 2 | 1,1655 9 |
| 7 | 610,5 61 | 454,093 | 0 | 17.082, 95 | 206,54 1 | 10,936 2 | 24,5329 | 0 | 1,6001 3 | 1,1659 |
| 7 | 695,6 18 | 595,89 | 0 | 12.993, 50 | 212,47 | 12,500 7 | 24,7438 | 0 | 1,7322 5 | 1,1670 4 |
| 7 | 797,6 85 | 780,237 | 0 | 9.798,3 6 | 219,99 3 | 14,324 4 | 24,8634 | 0 | 1,8778 9 | 1,1681 7 |
| 7 | 920,1 66 | 1020,18 | 0 | 7.534,7 2 | 229,54 2 | 16,443 6 | 24,9292 | 0 | 2,0377 9 | 1,1692 |
| 7 | 984,3 91 | 1153,6 | 0 | 6.654,6 7 | 234,75 4 | 17,526 5 | 24,9478 | 0 | 2,1161 8 | 1,1696 3 |
| 8 | 208,7 58 | - 21,3305 | 0 | 1,00 | 0,0017 7245 | 0,9259 14 | 24,6396 | 0 | 0,5195 59 | 1,1739 6 |
| 8 | 208,8 58 | - 21,2839 | 0 | 397.00 5,94 | 2,1889 2 | 0,0085 384 | -69,9274 | 0 | 0,4598 88 | 1,4869 |
| 8 | 208,9 58 | - 21,2379 | 0 | 413.79 9,23 | 3,0984 9 | 0,0159 368 | -73,2211 | 0 | 0,4600 15 | 1,5004 8 |
| 8 | 209,0 58 | - 21,1918 | 0 | 417.70 2,23 | 3,8080 9 | 0,0234 303 | -73,8452 | 0 | 0,4602 37 | 1,5026 3 |
| 8 | 209,1 58 | - 21,1458 | 0 | 418.92 5,25 | 4,4151 4 | 0,0309 235 | -74,0095 | 0 | 0,4604 63 | 1,5030 7 |

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|---|-------------|--------------|---|----------------|-------------|---------------|----------|---|--------------|--------------|
| 8 | 209,2 58 | - 21,0998 | 0 | 419.23 5,65 | 4,9549 9 | 0,0384 113 | -74,035 | 0 | 0,4606 81 | 1,5030 6 |
| 8 | 209,3 58 | - 21,0537 | 0 | 419.14 1,42 | 5,4496 9 | 0,0458 599 | -74,0046 | 0 | 0,4608 93 | 1,5028 9 |
| 8 | 209,4 58 | - 21,0076 | 0 | 418.83 8,14 | 5,9097 8 | 0,0532 823 | -73,9472 | 0 | 0,4611 03 | 1,5026 6 |
| 8 | 209,5 58 | - 20,9615 | 0 | 419.21 4,84 | 6,3425 6 | 0,0605 071 | -74,1108 | 0 | 0,4612 | 1,5036 5 |
| 8 | 209,6 58 | - 20,9153 | 0 | 420.71 8,76 | 6,7536 3 | 0,0673 708 | -74,6158 | 0 | 0,4611 4 | 1,5065 1 |
| 8 | 209,7 58 | - 20,8692 | 0 | 423.00 3,15 | 7,1469 6 | 0,0738 763 | -75,3476 | 0 | 0,4609 98 | 1,5106 1 |
| 8 | 209,8 58 | - 20,8231 | 0 | 425.75 9,91 | 7,5253 3 | 0,0800 595 | -76,2081 | 0 | 0,4608 31 | 1,5154 3 |
| 8 | 209,9 58 | - 20,7771 | 0 | 428.77 8,62 | 7,8907 7 | 0,0859 621 | -77,1338 | 0 | 0,4606 63 | 1,5206 2 |
| 8 | 210,0 58 | -20,731 | 0 | 431.92 7,72 | 8,2449 4 | 0,0916 188 | -78,0862 | 0 | 0,4605 06 | 1,5259 9 |
| 8 | 210,1 58 | -20,685 | 0 | 435.12 7,77 | 8,5893 8 | 0,0970 54 | -79,0427 | 0 | 0,4603 64 | 1,5314 1 |
| 8 | 210,2 58 | - 20,6389 | 0 | 438.32 8,39 | 8,9252 8 | 0,1022 9 | -79,99 | 0 | 0,4602 4 | 1,5368 2 |
| 8 | 210,3 58 | - 20,5929 | 0 | 441.49 7,03 | 9,2536 4 | 0,1073 44 | -80,9197 | 0 | 0,4601 33 | 1,5421 5 |
| 8 | 210,4 58 | - 20,5469 | 0 | 444.61 3,07 | 9,5751 | 0,1122 36 | -81,8272 | 0 | 0,4600 | 1,5474 43 |
| 8 | 210,5 58 | - 20,5009 | 0 | 447.66 3,99 | 9,8898 7 | 0,1169 86 | -82,7101 | 0 | 0,4599 67 | 1,5525 4 |
| 8 | 210,6 58 | - 20,4549 | 0 | 450.63 7,83 | 10,198 9 | 0,1216 | -83,5654 | 0 | 0,4599 05 | 1,5575 6 |
| 8 | 210,7 58 | - 20,4089 | 0 | 453.53 4,39 | 10,502 5 | 0,1260 92 | -84,3939 | 0 | 0,4598 56 | 1,5624 5 |
| 8 | 210,8 78 | - 20,3538 | 0 | 456.90 1,57 | 10,860 6 | 0,1313 29 | -85,3517 | 0 | 0,4598 14 | 1,5681 6 |
| 8 | 211,0 22 | - 20,2875 | 0 | 460.78 0,19 | 11,282 5 | 0,1374 07 | -86,4482 | 0 | 0,4597 85 | 1,5747 4 |
| 8 | 211,1 95 | - 20,2081 | 0 | 465.21 8,36 | 11,778 2 | 0,1444 42 | -87,6952 | 0 | 0,4597 78 | 1,5823 1 |

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|---|---------|----------|---|------------|---------|----------|----------|---|----------|---------|
| 8 | 211,402 | -20,1127 | 0 | 470.251,90 | 12,3589 | 0,152561 | -89,1001 | 0 | 0,459801 | 1,59095 |
| 8 | 211,651 | -19,9983 | 0 | 475.888,39 | 13,0387 | 0,161885 | -90,6627 | 0 | 0,459868 | 1,60069 |
| 8 | 211,949 | -19,861 | 0 | 482.124,28 | 13,8333 | 0,172548 | -92,3798 | 0 | 0,459995 | 1,61157 |
| 8 | 212,308 | -19,6961 | 0 | 488.939,55 | 14,7611 | 0,184696 | -94,2443 | 0 | 0,460199 | 1,62369 |
| 8 | 212,738 | -19,4982 | 0 | 496.274,20 | 15,8445 | 0,198476 | -96,2331 | 0 | 0,460503 | 1,63668 |
| 8 | 213,254 | -19,2605 | 0 | 504.014,20 | 17,1099 | 0,214125 | -98,2476 | 0 | 0,460934 | 1,65002 |
| 8 | 213,873 | -18,9749 | 0 | 512.148,90 | 18,585 | 0,232083 | -100,07 | 0 | 0,461505 | 1,66152 |
| 8 | 214,616 | -18,6318 | 0 | 521.335,80 | 20,3055 | 0,252163 | -101,752 | 0 | 0,462155 | 1,67108 |
| 8 | 215,508 | -18,2194 | 0 | 532.243,17 | 22,3121 | 0,273893 | -103,445 | 0 | 0,462868 | 1,67962 |
| 8 | 216,577 | -17,7236 | 0 | 544.440,91 | 24,6542 | 0,297645 | -104,985 | 0 | 0,463776 | 1,68578 |
| 8 | 217,861 | -17,1274 | 0 | 557.015,56 | 27,4897 | 0,323364 | -106,012 | 0 | 0,465036 | 1,68648 |
| 8 | 219,402 | -16,4096 | 0 | 568.787,37 | 31,0157 | 0,351508 | -106,063 | 0 | 0,466874 | 1,67775 |
| 8 | 221,251 | -15,5441 | 0 | 578.488,75 | 35,3602 | 0,38412 | -104,769 | 0 | 0,46937 | 1,65703 |
| 8 | 223,47 | -14,4993 | 0 | 584.904,40 | 40,6897 | 0,423377 | -101,912 | 0 | 0,472483 | 1,62388 |
| 8 | 226,132 | -13,2365 | 0 | 586.856,30 | 47,2083 | 0,471603 | -97,4113 | 0 | 0,476108 | 1,58 |
| 8 | 229,327 | -11,709 | 0 | 583.200,31 | 55,1519 | 0,531659 | -91,3137 | 0 | 0,480052 | 1,52868 |
| 8 | 233,16 | -9,86048 | 0 | 572.765,66 | 64,7698 | 0,607297 | -83,7572 | 0 | 0,484124 | 1,47395 |
| 8 | 237,761 | -7,62353 | 0 | 554.770,58 | 76,3307 | 0,703157 | -74,9822 | 0 | 0,488197 | 1,41974 |
| 8 | 243,282 | -4,91695 | 0 | 528.622,89 | 90,0934 | 0,826211 | -65,168 | 0 | 0,492198 | 1,36856 |



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|---|---------|---------|---|------------|---------|----------|----------|---|----------|---------|
| 8 | 249,906 | -1,6429 | 0 | 493.668,80 | 106,257 | 0,987851 | -54,4052 | 0 | 0,496093 | 1,32173 |
| 8 | 253,212 | 1,42695 | 0 | 475.361,06 | 114,128 | 1,07548 | -49,385 | 0 | 0,497771 | 1,30267 |
| 8 | 253,212 | 1,42695 | 0 | 476.294,46 | 113,915 | 1,0544 | -49,5983 | 0 | 0,508144 | 1,30337 |
| 8 | 257,856 | 2,34699 | 0 | 445.844,61 | 124,626 | 1,20126 | -41,966 | 0 | 0,504566 | 1,27749 |
| 8 | 267,396 | 7,17609 | 0 | 373.907,43 | 144,87 | 1,53259 | -26,1231 | 0 | 0,508234 | 1,23357 |
| 8 | 278,843 | 13,1971 | 0 | 292.339,65 | 165,083 | 1,89563 | -10,9596 | 0 | 0,555874 | 1,20223 |
| 8 | 292,58 | 21,4591 | 0 | 201.337,37 | 182,9 | 2,44345 | 2,58804 | 0 | 0,650958 | 1,18363 |
| 8 | 294,207 | 22,5288 | 0 | 190.873,18 | 184,546 | 2,525 | 4,11777 | 0 | 0,664502 | 1,18152 |
| 8 | 294,207 | 22,5288 | 0 | 190.873,18 | 184,546 | 2,525 | 4,11777 | 0 | 0,664502 | 1,18152 |
| 8 | 309,065 | 33,307 | 0 | 122.729,44 | 190,335 | 3,29432 | 12,6645 | 0 | 0,782367 | 1,17251 |
| 8 | 328,846 | 49,9366 | 0 | 86.899,83 | 191,325 | 4,02051 | 16,1614 | 0 | 0,881766 | 1,17094 |
| 8 | 352,584 | 71,7887 | 0 | 66.673,18 | 192,393 | 4,63228 | 17,9696 | 0 | 0,959657 | 1,17045 |
| 8 | 381,069 | 100,477 | 0 | 49.778,94 | 193,767 | 5,41273 | 19,3026 | 0 | 1,05302 | 1,17116 |
| 8 | 415,251 | 137,864 | 0 | 39.179,07 | 195,521 | 6,12339 | 21,4764 | 0 | 1,13336 | 1,16695 |
| 8 | 456,27 | 186,19 | 0 | 30.482,04 | 197,74 | 6,94637 | 22,8951 | 0 | 1,22173 | 1,16515 |
| 8 | 505,492 | 248,765 | 0 | 23.454,53 | 200,552 | 7,90548 | 23,7778 | 0 | 1,31948 | 1,16488 |
| 8 | 564,559 | 329,943 | 0 | 17.849,19 | 204,12 | 9,02727 | 24,3101 | 0 | 1,4278 | 1,16547 |
| 8 | 583,006 | 356,58 | 0 | 16.578,34 | 205,274 | 9,37234 | 24,4145 | 0 | 1,45999 | 1,16572 |
| 8 | 635,439 | 435,457 | 0 | 13.548,69 | 208,653 | 10,3414 | 24,6213 | 0 | 1,54787 | 1,16647 |



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|---|---------|----------|---|------------|------------|-----------|----------|---|----------|---------|
| 8 | 720,495 | 572,843 | 0 | 10.006,95 | 214,418 | 11,8806 | 24,7977 | 0 | 1,68075 | 1,16758 |
| 8 | 822,563 | 751,982 | 0 | 7.378,58 | 221,754 | 13,68 | 24,8949 | 0 | 1,82736 | 1,16867 |
| 8 | 942,581 | 980,918 | 0 | 5.409,16 | 230,898 | 15,7349 | 24,9462 | 0 | 1,98533 | 1,16962 |
| 9 | 208,759 | -21,3305 | 0 | 1,00 | 0,00177245 | 0,925914 | 24,6396 | 0 | 0,519559 | 1,17396 |
| 9 | 208,859 | -21,2839 | 0 | 396.551,78 | 2,18892 | 0,0085384 | -69,9274 | 0 | 0,459888 | 1,4869 |
| 9 | 208,959 | -21,2379 | 0 | 413.325,86 | 3,09849 | 0,0159368 | -73,2211 | 0 | 0,460015 | 1,50048 |
| 9 | 209,059 | -21,1918 | 0 | 417.224,40 | 3,80809 | 0,0234303 | -73,8452 | 0 | 0,460237 | 1,50263 |
| 9 | 209,159 | -21,1458 | 0 | 418.446,02 | 4,41514 | 0,0309235 | -74,0095 | 0 | 0,460463 | 1,50307 |
| 9 | 209,259 | -21,0998 | 0 | 418.756,07 | 4,95499 | 0,0384113 | -74,035 | 0 | 0,460681 | 1,50306 |
| 9 | 209,359 | -21,0537 | 0 | 418.661,94 | 5,44969 | 0,0458599 | -74,0046 | 0 | 0,460893 | 1,50289 |
| 9 | 209,459 | -21,0076 | 0 | 418.359,01 | 5,90978 | 0,0532823 | -73,9472 | 0 | 0,461103 | 1,50266 |
| 9 | 209,559 | -20,9615 | 0 | 418.735,28 | 6,34256 | 0,0605071 | -74,1108 | 0 | 0,461205 | 1,50365 |
| 9 | 209,659 | -20,9153 | 0 | 420.237,48 | 6,75363 | 0,0673708 | -74,6158 | 0 | 0,46114 | 1,50651 |
| 9 | 209,759 | -20,8692 | 0 | 422.519,25 | 7,14696 | 0,0738763 | -75,3476 | 0 | 0,460998 | 1,51061 |
| 9 | 209,859 | -20,8231 | 0 | 425.272,86 | 7,52533 | 0,0800595 | -76,2081 | 0 | 0,460831 | 1,51543 |
| 9 | 209,959 | -20,7771 | 0 | 428.288,11 | 7,89077 | 0,0859621 | -77,1338 | 0 | 0,460663 | 1,52062 |
| 9 | 210,059 | -20,731 | 0 | 431.433,62 | 8,24494 | 0,0916188 | -78,0862 | 0 | 0,460506 | 1,52599 |
| 9 | 210,159 | -20,685 | 0 | 434.630,00 | 8,58938 | 0,097054 | -79,0427 | 0 | 0,460364 | 1,53141 |
| 9 | 210,2 | - | 0 | 437.82 | 8,9252 | 0,1022 | -79,99 | 0 | 0,4602 | 1,5368 |

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|---|-------------|--------------|---|----------------|-------------|--------------|----------|---|--------------|-------------|
| | 59 | 20,6389 | | 6,96 | 8 | 9 | | | 4 | 2 |
| 9 | 210,3 59 | - 20,5929 | 0 | 440.99 1,98 | 9,2536 4 | 0,1073 44 | -80,9197 | 0 | 0,4601 33 | 1,5421 5 |
| 9 | 210,4 59 | - 20,5469 | 0 | 444.10 4,46 | 9,5751 | 0,1122 36 | -81,8272 | 0 | 0,4600 43 | 1,5474 |
| 9 | 210,5 59 | - 20,5009 | 0 | 447.15 1,88 | 9,8898 7 | 0,1169 86 | -82,7101 | 0 | 0,4599 67 | 1,5525 4 |
| 9 | 210,6 59 | - 20,4549 | 0 | 450.12 2,32 | 10,198 9 | 0,1216 | -83,5654 | 0 | 0,4599 05 | 1,5575 6 |
| 9 | 210,7 59 | - 20,4089 | 0 | 453.01 5,57 | 10,502 5 | 0,1260 92 | -84,3939 | 0 | 0,4598 56 | 1,5624 5 |
| 9 | 210,8 79 | - 20,3538 | 0 | 456.37 8,90 | 10,860 6 | 0,1313 29 | -85,3517 | 0 | 0,4598 14 | 1,5681 6 |
| 9 | 211,0 23 | - 20,2875 | 0 | 460.25 3,08 | 11,282 5 | 0,1374 07 | -86,4482 | 0 | 0,4597 85 | 1,5747 4 |
| 9 | 211,1 96 | - 20,2081 | 0 | 464.68 6,17 | 11,778 2 | 0,1444 42 | -87,6952 | 0 | 0,4597 78 | 1,5823 1 |
| 9 | 211,4 03 | - 20,1127 | 0 | 469.71 3,96 | 12,358 9 | 0,1525 61 | -89,1001 | 0 | 0,4598 01 | 1,5909 5 |
| 9 | 211,6 52 | - 19,9983 | 0 | 475.34 4,00 | 13,038 7 | 0,1618 85 | -90,6627 | 0 | 0,4598 68 | 1,6006 9 |
| 9 | 211,9 5 | -19,861 | 0 | 481.57 2,75 | 13,833 3 | 0,1725 48 | -92,3798 | 0 | 0,4599 95 | 1,6115 7 |
| 9 | 212,3 09 | - 19,6961 | 0 | 488.38 0,23 | 14,761 1 | 0,1846 96 | -94,2443 | 0 | 0,4601 99 | 1,6236 |
| 9 | 212,7 39 | - 19,4982 | 0 | 495.70 6,49 | 15,844 5 | 0,1984 76 | -96,2331 | 0 | 0,4605 03 | 1,6366 8 |
| 9 | 213,2 55 | - 19,2605 | 0 | 503.43 7,63 | 17,109 9 | 0,2141 25 | -98,2476 | 0 | 0,4609 34 | 1,6500 2 |
| 9 | 213,8 74 | - 18,9749 | 0 | 511.56 3,02 | 18,585 | 0,2320 83 | -100,07 | 0 | 0,4615 05 | 1,6615 2 |
| 9 | 214,6 17 | - 18,6318 | 0 | 520.73 9,41 | 20,305 5 | 0,2521 63 | -101,752 | 0 | 0,4621 55 | 1,6710 8 |
| 9 | 215,5 09 | - 18,2194 | 0 | 531.63 4,30 | 22,312 1 | 0,2738 93 | -103,445 | 0 | 0,4628 68 | 1,6796 2 |
| 9 | 216,5 78 | - 17,7236 | 0 | 543.81 8,09 | 24,654 2 | 0,2976 45 | -104,985 | 0 | 0,4637 76 | 1,6857 8 |
| 9 | 217,8 | - | 0 | 556.37 | 27,489 | 0,3233 | -106,012 | 0 | 0,4650 | 1,6864 |

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|---|-------------|-----------------|---|----------------|-------------|--------------|----------|---|--------------|-------------|
| | 62 | 17,1274 | | 8,36 | 7 | 64 | | | 36 | 8 |
| 9 | 219,4 03 | - 16,4096 | 0 | 568.13 6,71 | 31,015 7 | 0,3515 08 | -106,063 | 0 | 0,4668 74 | 1,6777 5 |
| 9 | 221,2 52 | - 15,5441 | 0 | 577.82 6,99 | 35,360 2 | 0,3841 2 | -104,769 | 0 | 0,4693 7 | 1,6570 3 |
| 9 | 223,4 71 | - 14,4993 | 0 | 584.23 5,30 | 40,689 7 | 0,4233 77 | -101,912 | 0 | 0,4724 83 | 1,6238 8 |
| 9 | 226,1 33 | - 13,2365 | 0 | 586.18 4,96 | 47,208 3 | 0,4716 03 | -97,4113 | 0 | 0,4761 08 | 1,58 |
| 9 | 229,3 28 | -11,709 | 0 | 582.53 3,15 | 55,151 9 | 0,5316 59 | -91,3137 | 0 | 0,4800 52 | 1,5286 8 |
| 9 | 233,1 61 | - 9,86048 | 0 | 572.11 0,45 | 64,769 8 | 0,6072 97 | -83,7572 | 0 | 0,4841 24 | 1,4739 5 |
| 9 | 237,7 62 | - 7,62353 | 0 | 554.13 5,95 | 76,330 7 | 0,7031 57 | -74,9822 | 0 | 0,4881 97 | 1,4197 4 |
| 9 | 243,2 83 | - 4,91695 | 0 | 528.01 8,17 | 90,093 4 | 0,8262 11 | -65,168 | 0 | 0,4921 98 | 1,3685 6 |
| 9 | 249,9 07 | -1,6429 | 0 | 493.10 4,07 | 106,25 7 | 0,9878 51 | -54,4052 | 0 | 0,4960 93 | 1,3217 3 |
| 9 | 253,2 13 | 1,42695 E-12 | 0 | 474.81 7,27 | 114,12 8 | 1,0754 8 | -49,385 | 0 | 0,4977 71 | 1,3026 7 |
| 9 | 253,2 13 | 1,42695 E-12 | 0 | 475.74 9,60 | 113,91 5 | 1,0544 | -49,5983 | 0 | 0,5081 44 | 1,3033 7 |
| 9 | 257,8 57 | 2,34699 | 0 | 445.33 4,58 | 124,62 6 | 1,2012 6 | -41,966 | 0 | 0,5045 66 | 1,2774 9 |
| 9 | 267,3 97 | 7,17609 | 0 | 373.47 9,69 | 144,87 | 1,5325 9 | -26,1231 | 0 | 0,5082 34 | 1,2335 7 |
| 9 | 278,8 44 | 13,1971 | 0 | 292.00 5,22 | 165,08 3 | 1,8956 3 | -10,9596 | 0 | 0,5558 74 | 1,2022 3 |
| 9 | 292,5 81 | 21,4591 | 0 | 201.10 7,05 | 182,9 | 2,4434 5 | 2,58804 | 0 | 0,6509 58 | 1,1836 3 |
| 9 | 294,2 08 | 22,5288 | 0 | 190.65 4,83 | 184,54 6 | 2,525 | 4,11777 | 0 | 0,6645 02 | 1,1815 2 |
| 9 | 294,2 08 | 22,5288 | 0 | 190.65 4,83 | 184,54 6 | 2,525 | 4,11777 | 0 | 0,6645 02 | 1,1815 2 |
| 9 | 309,0 66 | 33,307 | 0 | 122.32 1,38 | 190,33 5 | 3,2943 2 | 12,6645 | 0 | 0,7823 67 | 1,1725 1 |
| 9 | 328,8 | 49,9366 | 0 | 84.417, | 191,32 | 4,0205 | 16,1614 | 0 | 0,8817 | 1,1709 |

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|----|-------------|--------------|---|----------------|----------------|----------------|----------|---|--------------|-------------|
| | 47 | | | 12 | 5 | 1 | | | 66 | 4 |
| 9 | 352,5 85 | 71,7887 | 0 | 63.087, 45 | 192,39 3 | 4,6322 8 | 17,9696 | 0 | 0,9596 57 | 1,1704 5 |
| 9 | 381,0 7 | 100,477 | 0 | 45.889, 58 | 193,76 7 | 5,4127 3 | 19,3026 | 0 | 1,0530 2 | 1,1711 6 |
| 9 | 415,2 52 | 137,864 | 0 | 35.503, 08 | 195,52 1 | 6,1233 9 | 21,4764 | 0 | 1,1333 6 | 1,1669 5 |
| 9 | 456,2 71 | 186,19 | 0 | 27.170, 66 | 197,74 | 6,9463 7 | 22,8951 | 0 | 1,2217 3 | 1,1651 5 |
| 9 | 505,4 93 | 248,765 | 0 | 20.588, 71 | 200,55 2 | 7,9054 8 | 23,7778 | 0 | 1,3194 8 | 1,1648 8 |
| 9 | 564,5 6 | 329,943 | 0 | 15.265, 25 | 204,12 | 9,0272 7 | 24,3101 | 0 | 1,4278 | 1,1654 7 |
| 9 | 583,0 07 | 356,58 | 0 | 14.653, 43 | 205,27 4 | 9,3723 4 | 24,4145 | 0 | 1,4599 9 | 1,1657 2 |
| 9 | 635,4 4 | 435,457 | 0 | 11.494, 69 | 208,65 3 | 10,341 4 | 24,6213 | 0 | 1,5478 7 | 1,1664 7 |
| 9 | 720,4 96 | 572,843 | 0 | 8.462,8 2 | 214,41 8 | 11,880 6 | 24,7977 | 0 | 1,6807 5 | 1,1675 8 |
| 9 | 822,5 64 | 751,982 | 0 | 6.137,3 8 | 221,75 4 | 13,68 | 24,8949 | 0 | 1,8273 6 | 1,1686 7 |
| 9 | 942,5 82 | 980,918 | 0 | 4.711,6 9 | 230,89 8 | 15,734 9 | 24,9462 | 0 | 1,9853 3 | 1,1696 2 |
| 10 | 216,0 26 | - 21,5408 | 0 | 1,00 | 0,0017 7245 | 0,9259 14 | 24,6396 | 0 | 0,5195 59 | 1,1739 6 |
| 10 | 216,1 26 | - 21,4941 | 0 | 393.14 3,33 | 2,2020 5 | 0,0084 9216 | -69,4155 | 0 | 0,4608 1 | 1,4856 4 |
| 10 | 216,2 26 | -21,448 | 0 | 409.67 1,85 | 3,1178 8 | 0,0158 533 | -72,6812 | 0 | 0,4609 72 | 1,4991 3 |
| 10 | 216,3 26 | - 21,4019 | 0 | 413.55 0,00 | 3,8306 6 | 0,0233 197 | -73,3034 | 0 | 0,4611 72 | 1,5012 7 |
| 10 | 216,4 26 | - 21,3558 | 0 | 414.80 6,63 | 4,4386 6 | 0,0307 984 | -73,4727 | 0 | 0,4613 75 | 1,5017 3 |
| 10 | 216,5 26 | - 21,3096 | 0 | 415.15 4,14 | 4,9814 8 | 0,0382 551 | -73,5037 | 0 | 0,4615 77 | 1,5017 3 |
| 10 | 216,6 26 | - 21,2635 | 0 | 415.08 8,59 | 5,4784 2 | 0,0456 839 | -73,4772 | 0 | 0,4617 8 | 1,5015 7 |

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|----|-------------|--------------|---|----------------|-------------|---------------|----------|---|--------------|-------------|
| 10 | 216,7 26 | - 21,2173 | 0 | 414.81 9,37 | 5,9402 6 | 0,0530 871 | -73,4261 | 0 | 0,4619 82 | 1,5013 6 |
| 10 | 216,8 26 | - 21,1711 | 0 | 415.02 3,02 | 6,3750 7 | 0,0603 292 | -73,5371 | 0 | 0,4620 98 | 1,5020 7 |
| 10 | 216,9 26 | - 21,1249 | 0 | 416.37 7,87 | 6,7884 6 | 0,0672 028 | -74,002 | 0 | 0,4620 51 | 1,5047 1 |
| 10 | 217,0 26 | - 21,0787 | 0 | 418.61 8,79 | 7,1841 1 | 0,0736 929 | -74,7279 | 0 | 0,4619 09 | 1,5087 8 |
| 10 | 217,1 26 | - 21,0325 | 0 | 421.34 9,45 | 7,5646 5 | 0,0798 563 | -75,5885 | 0 | 0,4617 42 | 1,5135 8 |
| 10 | 217,2 26 | - 20,9863 | 0 | 424.33 1,11 | 7,9321 1 | 0,0857 428 | -76,5105 | 0 | 0,4615 8 | 1,5187 5 |
| 10 | 217,3 26 | - 20,9402 | 0 | 427.43 3,69 | 8,2887 9 | 0,0913 728 | -77,456 | 0 | 0,4614 31 | 1,5240 7 |
| 10 | 217,4 26 | -20,894 | 0 | 430.58 8,65 | 8,6355 | 0,0967 841 | -78,4068 | 0 | 0,4612 95 | 1,5294 4 |
| 10 | 217,5 26 | - 20,8479 | 0 | 433.75 1,18 | 8,9730 4 | 0,1020 06 | -79,3511 | 0 | 0,4611 74 | 1,5348 2 |
| 10 | 217,6 26 | - 20,8018 | 0 | 436.88 3,32 | 9,3027 6 | 0,1070 49 | -80,2783 | 0 | 0,4610 69 | 1,5401 3 |
| 10 | 217,7 26 | - 20,7557 | 0 | 439.96 9,45 | 9,6251 7 | 0,1119 36 | -81,1852 | 0 | 0,4609 78 | 1,5453 7 |
| 10 | 217,8 26 | - 20,7096 | 0 | 442.99 7,48 | 9,9409 4 | 0,1166 79 | -82,0691 | 0 | 0,4609 01 | 1,5505 |
| 10 | 217,9 26 | - 20,6635 | 0 | 445.95 6,82 | 10,250 8 | 0,1212 89 | -82,9277 | 0 | 0,4608 38 | 1,5555 3 |
| 10 | 218,0 26 | - 20,6174 | 0 | 448.84 4,66 | 10,555 3 | 0,1257 77 | -83,7608 | 0 | 0,4607 86 | 1,5604 4 |
| 10 | 218,1 46 | - 20,5621 | 0 | 452.21 1,14 | 10,914 2 | 0,1310 12 | -84,7264 | 0 | 0,4607 4 | 1,5661 8 |
| 10 | 218,2 9 | - 20,4958 | 0 | 456.10 3,60 | 11,336 7 | 0,1370 93 | -85,8358 | 0 | 0,4607 04 | 1,5728 2 |
| 10 | 218,4 63 | - 20,4162 | 0 | 460.56 3,23 | 11,833 5 | 0,1441 2 | -87,0979 | 0 | 0,4606 89 | 1,5804 7 |
| 10 | 218,6 7 | - 20,3207 | 0 | 465.61 5,83 | 12,417 | 0,1522 05 | -88,5174 | 0 | 0,4607 05 | 1,5891 7 |
| 10 | 218,9 19 | -20,206 | 0 | 471.27 3,92 | 13,1 | 0,1614 85 | -90,0961 | 0 | 0,4607 66 | 1,5989 9 |

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|----|-------------|--------------|---|----------------|-------------|--------------|----------|---|--------------|-------------|
| 10 | 219,2 18 | - 20,0684 | 0 | 477.52 5,51 | 13,898 4 | 0,1720 95 | -91,8285 | 0 | 0,4608 88 | 1,6099 4 |
| 10 | 219,5 76 | - 19,9032 | 0 | 484.33 8,04 | 14,830 8 | 0,1841 72 | -93,7041 | 0 | 0,4610 89 | 1,6220 2 |
| 10 | 220,0 06 | - 19,7049 | 0 | 491.64 6,73 | 15,919 7 | 0,1978 56 | -95,7057 | 0 | 0,4613 9 | 1,6351 7 |
| 10 | 220,5 22 | - 19,4667 | 0 | 499.36 6,96 | 17,189 8 | 0,2134 24 | -97,7262 | 0 | 0,4618 13 | 1,6485 2 |
| 10 | 221,1 41 | - 19,1806 | 0 | 507.37 4,56 | 18,669 6 | 0,2314 05 | -99,5044 | 0 | 0,4623 85 | 1,6596 3 |
| 10 | 221,8 84 | - 18,8368 | 0 | 516.63 0,85 | 20,394 9 | 0,2512 91 | -101,252 | 0 | 0,4630 1 | 1,6697 3 |
| 10 | 222,7 76 | - 18,4237 | 0 | 527.49 6,13 | 22,405 3 | 0,2728 83 | -102,989 | 0 | 0,4637 21 | 1,6787 |
| 10 | 223,8 46 | -17,927 | 0 | 539.53 8,95 | 24,754 6 | 0,2965 65 | -104,522 | 0 | 0,4646 38 | 1,6848 7 |
| 10 | 225,1 3 | - 17,3297 | 0 | 552.04 2,56 | 27,584 | 0,3222 75 | -105,564 | 0 | 0,4659 02 | 1,6857 7 |
| 10 | 226,6 7 | - 16,6105 | 0 | 563.82 9,58 | 31,111 6 | 0,3501 23 | -105,665 | 0 | 0,4677 28 | 1,6775 7 |
| 10 | 228,5 19 | - 15,7435 | 0 | 573.52 4,79 | 35,471 3 | 0,3822 65 | -104,388 | 0 | 0,4702 46 | 1,6570 7 |
| 10 | 230,7 38 | - 14,6968 | 0 | 579.91 2,42 | 40,791 | 0,4213 38 | -101,531 | 0 | 0,4733 42 | 1,6240 2 |
| 10 | 233,4 | - 13,4318 | 0 | 581.84 7,17 | 47,299 9 | 0,4693 78 | -97,041 | 0 | 0,4768 81 | 1,5803 5 |
| 10 | 236,5 95 | -11,902 | 0 | 578.19 0,04 | 55,229 4 | 0,5292 21 | -90,9694 | 0 | 0,4807 21 | 1,5293 7 |
| 10 | 240,4 29 | - 10,0512 | 0 | 567.91 3,17 | 64,840 3 | 0,6043 8 | -83,4671 | 0 | 0,4846 96 | 1,4750 4 |
| 10 | 245,0 29 | - 7,81181 | 0 | 550.20 4,39 | 76,405 5 | 0,6995 7 | -74,7369 | 0 | 0,4886 84 | 1,421 |
| 10 | 250,5 5 | - 5,10266 | 0 | 524.37 5,20 | 90,172 1 | 0,8218 7 | -64,9625 | 0 | 0,4925 96 | 1,3699 |
| 10 | 257,1 75 | - 1,82407 | 0 | 486.81 1,64 | 106,32 4 | 0,9780 97 | -53,5951 | 0 | 0,4979 49 | 1,3209 5 |
| 10 | 265,1 24 | 2,16403 | 0 | 425.41 2,14 | 124,52 7 | 1,2001 3 | -38,5692 | 0 | 0,5048 52 | 1,2704 3 |

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|----|-------------|---------|---|----------------|-------------|-------------|----------|---|--------------|-------------|
| 10 | 274,6 64 | 7,00467 | 0 | 350.18 2,58 | 144,10 2 | 1,5425 6 | -22,8223 | 0 | 0,5095 75 | 1,2297 3 |
| 10 | 286,1 12 | 13,05 | 0 | 272.24 8,52 | 164,07 | 1,9004 | -8,96223 | 0 | 0,5575 03 | 1,2029 6 |
| 10 | 299,8 49 | 21,2922 | 0 | 190.78 8,30 | 182,94 8 | 2,4040 5 | 3,05789 | 0 | 0,6450 08 | 1,1865 4 |
| 10 | 301,7 45 | 22,5288 | 0 | 180.13 2,85 | 185,11 1 | 2,4879 5 | 4,65699 | 0 | 0,6590 06 | 1,1841 7 |
| 10 | 301,7 45 | 22,5288 | 0 | 180.13 2,85 | 185,11 1 | 2,4879 5 | 4,65699 | 0 | 0,6590 06 | 1,1841 7 |
| 10 | 316,3 33 | 32,9641 | 0 | 116.63 0,04 | 193,70 8 | 3,1817 2 | 12,7539 | 0 | 0,7663 7 | 1,1744 6 |
| 10 | 336,1 14 | 49,0924 | 0 | 83.352, 51 | 195,25 2 | 3,8112 9 | 16,0929 | 0 | 0,8541 48 | 1,1719 2 |
| 10 | 359,8 52 | 70,2818 | 0 | 62.445, 39 | 196,28 9 | 4,4054 2 | 17,973 | 0 | 0,9313 72 | 1,1710 9 |
| 10 | 388,3 37 | 98,1567 | 0 | 45.257, 05 | 197,62 6 | 5,1829 | 19,3606 | 0 | 1,0261 6 | 1,1716 5 |
| 10 | 422,5 19 | 134,709 | 0 | 34.797, 23 | 199,34 3 | 5,9 | 21,6101 | 0 | 1,1085 6 | 1,1672 1 |
| 10 | 463,5 38 | 182,018 | 0 | 26.602, 51 | 201,51 9 | 6,7110 9 | 23,0061 | 0 | 1,1970 3 | 1,1654 1 |
| 10 | 512,7 6 | 243,376 | 0 | 20.110, 26 | 204,28 | 7,6584 7 | 23,8594 | 0 | 1,2948 3 | 1,1651 7 |
| 10 | 571,8 27 | 323,103 | 0 | 15.103, 57 | 207,79 1 | 8,7690 9 | 24,3654 | 0 | 1,4031 9 | 1,1657 8 |
| 10 | 575,6 45 | 328,474 | 0 | 15.033, 01 | 208,02 4 | 8,8379 1 | 24,3875 | 0 | 1,4102 8 | 1,1658 3 |
| 10 | 642,7 07 | 426,91 | 0 | 11.241, 28 | 212,25 8 | 10,070 8 | 24,6564 | 0 | 1,5236 9 | 1,1667 7 |
| 10 | 727,7 64 | 562,253 | 0 | 8.243,7 4 | 217,94 7 | 11,598 1 | 24,8189 | 0 | 1,6569 2 | 1,1678 6 |
| 10 | 829,8 31 | 738,983 | 0 | 5.979,9 0 | 225,19 6 | 13,386 1 | 24,907 | 0 | 1,8039 9 | 1,1689 1 |
| 10 | 918,1 65 | 903,606 | 0 | 4.896,0 6 | 231,80 4 | 14,896 8 | 24,9442 | 0 | 1,9219 9 | 1,1696 1 |
| 11 | 222,0 | - | 0 | 1,00 | 0,0017 | 0,9259 | 24,6396 | 0 | 0,5195 | 1,1739 |



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|----|-------|---------|---|--------|--------|--------|----------|---|--------|--------|
| | 87 | 21,7162 | | | 7245 | 14 | | | 59 | 6 |
| 11 | 222,1 | - | 0 | 389.95 | 2,2120 | 0,0084 | -68,9886 | 0 | 0,4615 | 1,4845 |
| | 87 | 21,6694 | | 7,12 | 6 | 5883 | | | 7 | 8 |
| 11 | 222,2 | - | 0 | 406.23 | 3,1282 | 0,0158 | -72,226 | 0 | 0,4617 | 1,4979 |
| | 87 | 21,6233 | | 9,18 | 8 | 046 | | | 6 | 7 |
| 11 | 222,3 | - | 0 | 410.06 | 3,8410 | 0,0232 | -72,8437 | 0 | 0,4619 | 1,5001 |
| | 87 | 21,5771 | | 2,81 | 5 | 52 | | | 56 | |
| 11 | 222,4 | - | 0 | 411.30 | 4,4489 | 0,0307 | -73,0128 | 0 | 0,4621 | 1,5005 |
| | 87 | 21,5309 | | 5,60 | 6 | 102 | | | 53 | 6 |
| 11 | 222,5 | - | 0 | 411.65 | 4,9918 | 0,0381 | -73,0444 | 0 | 0,4623 | 1,5005 |
| | 87 | 21,4847 | | 0,26 | 9 | 437 | | | 5 | 7 |
| 11 | 222,6 | - | 0 | 411.58 | 5,4888 | 0,0455 | -73,0189 | 0 | 0,4625 | 1,5004 |
| | 87 | 21,4384 | | 7,77 | 2 | 507 | | | 48 | 2 |
| 11 | 222,7 | - | 0 | 411.31 | 5,9506 | 0,0529 | -72,9657 | 0 | 0,4627 | 1,5002 |
| | 87 | 21,3921 | | 2,42 | 7 | 336 | | | 47 | |
| 11 | 222,8 | - | 0 | 411.36 | 6,3855 | 0,0601 | -73,032 | 0 | 0,4628 | 1,5006 |
| | 87 | 21,3459 | | 6,16 | 2 | 867 | | | 83 | 7 |
| 11 | 222,9 | - | 0 | 412.70 | 6,7990 | 0,0670 | -73,4949 | 0 | 0,4628 | 1,5032 |
| | 87 | 21,2996 | | 5,03 | 5 | 435 | | | 36 | 9 |
| 11 | 223,0 | - | 0 | 414.93 | 7,1947 | 0,0735 | -74,2214 | 0 | 0,4626 | 1,5073 |
| | 87 | 21,2533 | | 0,53 | 8 | 162 | | | 94 | 5 |
| 11 | 223,1 | -21,207 | 0 | 417.60 | 7,5753 | 0,0796 | -75,0704 | 0 | 0,4625 | 1,5120 |
| | 87 | | | 2,47 | 4 | 75 | | | 35 | 9 |
| 11 | 223,2 | - | 0 | 420.53 | 7,9428 | 0,0855 | -75,9836 | 0 | 0,4623 | 1,5172 |
| | 87 | 21,1608 | | 0,45 | 8 | 566 | | | 78 | |
| 11 | 223,3 | - | 0 | 423.59 | 8,2988 | 0,0911 | -76,9272 | 0 | 0,4622 | 1,5225 |
| | 87 | 21,1146 | | 8,12 | 3 | 955 | | | 28 | |
| 11 | 223,4 | - | 0 | 426.72 | 8,6447 | 0,0966 | -77,8789 | 0 | 0,4620 | 1,5278 |
| | 87 | 21,0684 | | 7,81 | 2 | 158 | | | 9 | 8 |
| 11 | 223,5 | - | 0 | 429.86 | 8,9818 | 0,1018 | -78,8245 | 0 | 0,4619 | 1,5332 |
| | 87 | 21,0222 | | 9,17 | 7 | 36 | | | 68 | 6 |
| 11 | 223,6 | -20,976 | 0 | 432.98 | 9,3112 | 0,1068 | -79,755 | 0 | 0,4618 | 1,5385 |
| | 87 | | | 7,89 | 2 | 77 | | | 61 | 8 |
| 11 | 223,7 | - | 0 | 436.06 | 9,6334 | 0,1117 | -80,6651 | 0 | 0,4617 | 1,5438 |
| | 87 | 20,9298 | | 1,37 | 9 | 56 | | | 7 | 3 |
| 11 | 223,8 | - | 0 | 439.07 | 9,9493 | 0,1164 | -81,5514 | 0 | 0,4616 | 1,5489 |
| | 87 | 20,8836 | | 5,59 | 9 | 86 | | | 94 | 7 |
| 11 | 223,9 | - | 0 | 442.02 | 10,259 | 0,1210 | -82,4126 | 0 | 0,4616 | 1,5540 |

| | | | | | | | | | | |
|----|-------------|--------------|---|----------------|-------------|--------------|----------|---|--------------|-------------|
| | 87 | 20,8374 | | 2,06 | 3 | 83 | | | 31 | 1 |
| 11 | 224,0 87 | - 20,7913 | 0 | 444.89 4,81 | 10,563 8 | 0,1255 57 | -83,2474 | 0 | 0,4615 81 | 1,5589 2 |
| 11 | 224,2 07 | - 20,7359 | 0 | 448.24 1,40 | 10,922 7 | 0,1307 74 | -84,2145 | 0 | 0,4615 36 | 1,5646 6 |
| 11 | 224,3 51 | - 20,6694 | 0 | 452.10 9,46 | 11,345 3 | 0,1368 32 | -85,3252 | 0 | 0,4615 04 | 1,5713 |
| 11 | 224,5 23 | - 20,5897 | 0 | 456.54 0,35 | 11,841 9 | 0,1438 36 | -86,5889 | 0 | 0,4614 91 | 1,5789 5 |
| 11 | 224,7 31 | -20,494 | 0 | 461.56 3,40 | 12,424 6 | 0,1519 01 | -88,0116 | 0 | 0,4615 1 | 1,5876 6 |
| 11 | 224,9 8 | - 20,3792 | 0 | 467.19 1,55 | 13,107 | 0,1611 5 | -89,5947 | 0 | 0,4615 73 | 1,5974 9 |
| 11 | 225,2 78 | - 20,2413 | 0 | 473.41 5,28 | 13,905 2 | 0,1717 12 | -91,3334 | 0 | 0,4616 98 | 1,6084 7 |
| 11 | 225,6 37 | - 20,0758 | 0 | 480.19 8,45 | 14,838 1 | 0,1837 21 | -93,2167 | 0 | 0,4619 03 | 1,6205 9 |
| 11 | 226,0 67 | - 19,8772 | 0 | 487.47 6,05 | 15,928 | 0,1973 24 | -95,2198 | 0 | 0,4622 1 | 1,6337 3 |
| 11 | 226,5 83 | - 19,6386 | 0 | 495.15 3,29 | 17,198 9 | 0,2127 81 | -97,2632 | 0 | 0,4626 42 | 1,6472 7 |
| 11 | 227,2 02 | - 19,3519 | 0 | 503.14 4,89 | 18,678 5 | 0,2305 58 | -99,1275 | 0 | 0,4632 17 | 1,6591 7 |
| 11 | 227,9 45 | - 19,0075 | 0 | 512.16 2,23 | 20,402 2 | 0,2504 48 | -100,866 | 0 | 0,4638 69 | 1,6693 2 |
| 11 | 228,8 36 | - 18,5936 | 0 | 522.90 1,88 | 22,413 5 | 0,2719 54 | -102,604 | 0 | 0,4645 72 | 1,6783 7 |
| 11 | 229,9 06 | -18,096 | 0 | 534.95 7,34 | 24,760 3 | 0,2954 54 | -104,17 | 0 | 0,4654 58 | 1,6848 6 |
| 11 | 231,1 9 | - 17,4977 | 0 | 547.47 1,26 | 27,588 5 | 0,3209 16 | -105,256 | 0 | 0,4666 88 | 1,6861 8 |
| 11 | 232,7 31 | - 16,7773 | 0 | 559.28 1,78 | 31,102 2 | 0,3486 78 | -105,394 | 0 | 0,4684 61 | 1,6783 6 |
| 11 | 234,5 8 | - 15,9089 | 0 | 569.00 8,98 | 35,431 5 | 0,3808 37 | -104,172 | 0 | 0,4708 82 | 1,6584 1 |
| 11 | 236,7 98 | - 14,8609 | 0 | 575.54 9,53 | 40,745 2 | 0,4194 61 | -101,394 | 0 | 0,4738 96 | 1,6260 4 |
| 11 | 239,4 | - | 0 | 577.71 | 47,245 | 0,4669 | -96,9731 | 0 | 0,4773 | 1,5828 |

| | | | | | | | | | | |
|----|-------|---------|---|---------|--------|--------|----------|---|--------|--------|
| | 61 | 13,5945 | | 8,92 | 5 | 81 | | | 75 | 2 |
| 11 | 242,6 | - | 0 | 574.41 | 55,171 | 0,5261 | -90,9561 | 0 | 0,4811 | 1,5319 |
| | 55 | 12,0633 | | 2,71 | 6 | 67 | | | 59 | 9 |
| 11 | 246,4 | - | 0 | 564.45 | 64,777 | 0,6007 | -83,4741 | 0 | 0,4850 | 1,4775 |
| | 89 | 10,2108 | | 0,92 | 5 | 03 | | | 78 | |
| 11 | 251,0 | - | 0 | 547.01 | 76,334 | 0,6952 | -74,7565 | 0 | 0,4890 | 1,4232 |
| | 9 | 7,96987 | | 5,52 | 3 | 17 | | | 07 | 7 |
| 11 | 256,6 | - | 0 | 518.69 | 90,083 | 0,8128 | -64,4073 | 0 | 0,4943 | 1,3698 |
| | 1 | 5,25712 | | 2,44 | 2 | 07 | | | 83 | 3 |
| 11 | 263,2 | - | 0 | 469.01 | 105,95 | 0,9681 | -50,6979 | 0 | 0,5016 | 1,3142 |
| | 35 | 1,95555 | | 0,81 | | 69 | | | 36 | 3 |
| 11 | 271,1 | 2,05455 | 0 | 401.86 | 123,69 | 1,2070 | -35,1131 | 0 | 0,5068 | 1,2650 |
| | 85 | | | 6,74 | 2 | 9 | | | 08 | 1 |
| 11 | 280,7 | 6,90865 | 0 | 328.82 | 142,96 | 1,5506 | -20,3708 | 0 | 0,5105 | 1,2288 |
| | 24 | | | 7,19 | 3 | 2 | | | 65 | 9 |
| 11 | 292,1 | 12,9583 | 0 | 256.46 | 163,18 | 1,8926 | -7,76774 | 0 | 0,5566 | 1,2052 |
| | 72 | | | 2,43 | 3 | 5 | | | 69 | 8 |
| 11 | 305,9 | 21,1442 | 0 | 182.79 | 183,25 | 2,3531 | 3,23063 | 0 | 0,6370 | 1,1896 |
| | 09 | | | 3,85 | 3 | 7 | | | 83 | 1 |
| 11 | 308,0 | 22,5288 | 0 | 171.92 | 185,95 | 2,4384 | 4,91973 | 0 | 0,6514 | 1,1868 |
| | 58 | | | 9,82 | | 6 | | | 18 | 9 |
| 11 | 308,0 | 22,5288 | 0 | 171.92 | 185,95 | 2,4384 | 4,91973 | 0 | 0,6514 | 1,1868 |
| | 58 | | | 9,82 | | 6 | | | 18 | 9 |
| 11 | 322,3 | 32,614 | 0 | 111.69 | 196,28 | 3,0866 | 12,8186 | 0 | 0,7527 | 1,1763 |
| | 93 | | | 4,25 | 2 | 9 | | | 4 | 1 |
| 11 | 342,1 | 48,4493 | 0 | 80.511, | 199,25 | 3,6922 | 16,1874 | 0 | 0,8381 | 1,1732 |
| | 75 | | | 55 | 5 | 5 | | | 81 | 5 |
| 11 | 365,9 | 69,2532 | 0 | 61.794, | 200,27 | 4,2754 | 18,0666 | 0 | 0,9149 | 1,1721 |
| | 12 | | | 27 | 4 | 3 | | | 04 | 2 |
| 11 | 394,3 | 96,6518 | 0 | 45.877, | 201,58 | 5,0411 | 19,5303 | 0 | 1,0092 | 1,1721 |
| | 98 | | | 91 | 9 | 7 | | | 8 | 4 |
| 11 | 428,5 | 132,646 | 0 | 35.822, | 203,28 | 5,7594 | 21,7564 | 0 | 1,0927 | 1,1676 |
| | 8 | | | 52 | 1 | 9 | | | 4 | 8 |
| 11 | 469,5 | 179,308 | 0 | 27.928, | 205,43 | 6,5634 | 23,1123 | 0 | 1,1811 | 1,1658 |
| | 98 | | | 63 | | 2 | | | 8 | 8 |
| 11 | 518,8 | 239,889 | 0 | 21.551, | 208,15 | 7,5030 | 23,9312 | 0 | 1,2790 | 1,1656 |
| | 21 | | | 15 | 9 | 2 | | | 9 | 3 |
| 11 | 564,7 | 300,676 | 0 | 17.201, | 210,84 | 8,3627 | 24,3325 | 0 | 1,3643 | 1,1660 |



| | | | | | | | | | | |
|----|---------|----------|---|------------|------------|------------|----------|---|----------|---------|
| | 96 | | | 45 | 5 | 9 | | | 6 | 4 |
| 11 | 577,888 | 318,724 | 0 | 16.455,41 | 211,634 | 8,60557 | 24,4107 | 0 | 1,38776 | 1,16621 |
| 11 | 648,768 | 421,423 | 0 | 12.376,17 | 216,058 | 9,90007 | 24,684 | 0 | 1,50829 | 1,16715 |
| 11 | 733,824 | 555,466 | 0 | 9.601,01 | 221,699 | 11,4198 | 24,8348 | 0 | 1,64176 | 1,16819 |
| 11 | 835,891 | 730,664 | 0 | 7.378,02 | 228,893 | 13,2006 | 24,9159 | 0 | 1,78912 | 1,16919 |
| 11 | 888,75 | 827,142 | 0 | 6.526,11 | 232,784 | 14,1054 | 24,9386 | 0 | 1,86083 | 1,1696 |
| 12 | 247,799 | -22,3722 | 0 | 1,00 | 0,00177245 | 0,925914 | 24,6396 | 0 | 0,519559 | 1,17396 |
| 12 | 247,899 | -22,3251 | 0 | 373.483,43 | 2,2446 | 0,00830055 | -66,7658 | 0 | 0,465316 | 1,47905 |
| 12 | 247,999 | -22,2786 | 0 | 389.394,45 | 3,17829 | 0,0155101 | -70,002 | 0 | 0,465439 | 1,49242 |
| 12 | 248,099 | -22,232 | 0 | 393.121,16 | 3,90253 | 0,0228407 | -70,6175 | 0 | 0,465621 | 1,49456 |
| 12 | 248,199 | -22,1855 | 0 | 394.363,84 | 4,52129 | 0,0301722 | -70,7932 | 0 | 0,465791 | 1,49505 |
| 12 | 248,299 | -22,1389 | 0 | 394.710,82 | 5,0743 | 0,0374755 | -70,8289 | 0 | 0,465973 | 1,49509 |
| 12 | 248,399 | -22,0923 | 0 | 394.647,44 | 5,58016 | 0,0447531 | -70,8056 | 0 | 0,466163 | 1,49496 |
| 12 | 248,499 | -22,0456 | 0 | 394.373,11 | 6,05059 | 0,0520029 | -70,7543 | 0 | 0,466351 | 1,49475 |
| 12 | 248,599 | -21,999 | 0 | 394.326,89 | 6,49305 | 0,0591503 | -70,7946 | 0 | 0,466491 | 1,49508 |
| 12 | 248,699 | -21,9523 | 0 | 395.200,56 | 6,91306 | 0,0660023 | -71,1301 | 0 | 0,466503 | 1,49702 |
| 12 | 248,799 | -21,9057 | 0 | 396.962,73 | 7,31481 | 0,0724915 | -71,7401 | 0 | 0,466413 | 1,50043 |
| 12 | 248,899 | -21,8591 | 0 | 399.309,31 | 7,70112 | 0,0786456 | -72,5224 | 0 | 0,466276 | 1,50479 |
| 12 | 248,999 | -21,8124 | 0 | 401.999,61 | 8,07414 | 0,0845064 | -73,3989 | 0 | 0,466129 | 1,50967 |



| | | | | | | | | | | |
|----|-------|---------|---|--------|--------|--------|----------|---|--------|--------|
| 12 | 249,0 | - | 0 | 404.87 | 8,4355 | 0,0901 | -74,3205 | 0 | 0,4659 | 1,5148 |
| | 99 | 21,7658 | | 5,49 | 6 | 126 | | | 87 | 2 |
| 12 | 249,1 | - | 0 | 407.84 | 8,7865 | 0,0954 | -75,2597 | 0 | 0,4658 | 1,5200 |
| | 99 | 21,7192 | | 4,03 | 8 | 97 | | | 55 | 9 |
| 12 | 249,2 | - | 0 | 410.84 | 9,1284 | 0,1006 | -76,1989 | 0 | 0,4657 | 1,5253 |
| | 99 | 21,6727 | | 4,92 | 4 | 83 | | | 36 | 9 |
| 12 | 249,3 | - | 0 | 413.83 | 9,4621 | 0,1056 | -77,1273 | 0 | 0,4656 | 1,5306 |
| | 99 | 21,6261 | | 9,96 | 6 | 89 | | | 32 | 7 |
| 12 | 249,4 | - | 0 | 416.80 | 9,7888 | 0,1105 | -78,038 | 0 | 0,4655 | 1,5358 |
| | 99 | 21,5795 | | 3,36 | 1 | 28 | | | 43 | 8 |
| 12 | 249,5 | -21,533 | 0 | 419.72 | 10,108 | 0,1152 | -78,928 | 0 | 0,4654 | 1,541 |
| | 99 | | | 0,66 | 9 | 18 | | | 68 | |
| 12 | 249,6 | - | 0 | 422.58 | 10,423 | 0,1197 | -79,7945 | 0 | 0,4654 | 1,5460 |
| | 99 | 21,4864 | | 0,39 | 1 | 67 | | | 06 | 3 |
| 12 | 249,7 | - | 0 | 425.37 | 10,732 | 0,1241 | -80,6367 | 0 | 0,4653 | 1,5509 |
| | 99 | 21,4399 | | 6,22 | | 9 | | | 55 | 4 |
| 12 | 249,9 | - | 0 | 428.64 | 11,096 | 0,1293 | -81,6143 | 0 | 0,4653 | 1,5566 |
| | 19 | 21,3841 | | 1,57 | | 44 | | | 1 | 9 |
| 12 | 250,0 | - | 0 | 432.42 | 11,524 | 0,1353 | -82,741 | 0 | 0,4652 | 1,5633 |
| | 63 | 21,3171 | | 8,20 | | 31 | | | 73 | 8 |
| 12 | 250,2 | - | 0 | 436.77 | 12,026 | 0,1422 | -84,0269 | 0 | 0,4652 | 1,5711 |
| | 35 | 21,2367 | | 9,31 | 2 | 57 | | | 53 | |
| 12 | 250,4 | - | 0 | 441.72 | 12,614 | 0,1502 | -85,4794 | 0 | 0,4652 | 1,5799 |
| | 43 | 21,1402 | | 9,88 | 9 | 32 | | | 59 | 2 |
| 12 | 250,6 | - | 0 | 447.29 | 13,304 | 0,1593 | -87,0995 | 0 | 0,4653 | 1,5899 |
| | 92 | 21,0244 | | 4,54 | 6 | 59 | | | 04 | |
| 12 | 250,9 | - | 0 | 453.47 | 14,111 | 0,1697 | -88,8851 | 0 | 0,4654 | 1,6010 |
| | 9 | 20,8855 | | 2,60 | 1 | 67 | | | 05 | 9 |
| 12 | 251,3 | - | 0 | 460.23 | 15,053 | 0,1815 | -90,8258 | 0 | 0,4655 | 1,6134 |
| | 49 | 20,7187 | | 3,27 | 5 | 84 | | | 78 | 7 |
| 12 | 251,7 | - | 0 | 467.51 | 16,153 | 0,1949 | -92,9042 | 0 | 0,4658 | 1,6270 |
| | 78 | 20,5184 | | 6,23 | 8 | 5 | | | 45 | 1 |
| 12 | 252,2 | -20,278 | 0 | 475.23 | 17,436 | 0,2100 | -95,0458 | 0 | 0,4662 | 1,6411 |
| | 94 | | | 2,73 | 2 | 99 | | | 26 | 6 |
| 12 | 252,9 | - | 0 | 483.24 | 18,929 | 0,2274 | -97,0286 | 0 | 0,4667 | 1,6539 |
| | 14 | 19,9892 | | 1,94 | 4 | 96 | | | 46 | 4 |
| 12 | 253,6 | - | 0 | 492.10 | 20,668 | 0,2469 | -98,8871 | 0 | 0,4673 | 1,6651 |
| | 57 | 19,6421 | | 2,32 | 2 | 34 | | | 85 | 8 |

| | | | | | | | | | | |
|----|-------------|--------------|---|----------------|-------------|--------------|----------|---|--------------|-------------|
| 12 | 254,5 48 | - 19,2247 | 0 | 501.05 0,08 | 22,679 2 | 0,2674 18 | -100,508 | 0 | 0,4688 66 | 1,6742 6 |
| 12 | 255,6 18 | - 18,7214 | 0 | 508.21 8,61 | 25,003 7 | 0,2883 42 | -101,518 | 0 | 0,4718 79 | 1,6788 |
| 12 | 256,9 02 | - 18,1133 | 0 | 513.73 6,36 | 27,776 8 | 0,3107 09 | -101,764 | 0 | 0,4753 2 | 1,6770 3 |
| 12 | 258,4 43 | - 17,3781 | 0 | 516.97 4,09 | 31,194 6 | 0,3352 02 | -100,902 | 0 | 0,4789 47 | 1,6660 1 |
| 12 | 260,2 92 | -16,489 | 0 | 517.04 7,29 | 35,390 7 | 0,3634 74 | -98,619 | 0 | 0,4827 89 | 1,6437 7 |
| 12 | 262,5 1 | - 15,4133 | 0 | 512.78 3,07 | 40,513 9 | 0,3978 28 | -94,637 | 0 | 0,4867 94 | 1,6096 3 |
| 12 | 265,1 73 | - 14,1117 | 0 | 502.97 1,04 | 46,746 8 | 0,4407 98 | -88,8388 | 0 | 0,4908 51 | 1,5652 3 |
| 12 | 268,3 67 | - 12,5369 | 0 | 486.54 5,99 | 54,308 4 | 0,4952 55 | -81,2785 | 0 | 0,4948 41 | 1,5140 1 |
| 12 | 272,2 01 | -10,632 | 0 | 462.59 9,51 | 63,436 9 | 0,5652 29 | -72,1006 | 0 | 0,4986 58 | 1,4598 5 |
| 12 | 276,8 02 | - 8,32847 | 0 | 430.23 8,43 | 74,376 3 | 0,6571 1 | -61,497 | 0 | 0,5022 19 | 1,4062 8 |
| 12 | 282,3 22 | - 5,54667 | 0 | 391.58 2,15 | 87,378 3 | 0,7748 08 | -50,1775 | 0 | 0,5054 46 | 1,3573 7 |
| 12 | 288,9 47 | -2,1884 | 0 | 346.18 3,48 | 102,65 | 0,9325 74 | -38,1503 | 0 | 0,5083 72 | 1,3131 4 |
| 12 | 296,8 97 | 1,86373 | 0 | 295.69 4,07 | 120,36 4 | 1,1482 2 | -25,9223 | 0 | 0,5109 8 | 1,2748 7 |
| 12 | 306,4 36 | 6,74978 | 0 | 243.64 2,82 | 140,64 2 | 1,4397 9 | -14,5243 | 0 | 0,5132 61 | 1,2445 9 |
| 12 | 317,8 84 | 12,684 | 0 | 194.52 7,84 | 163,60 3 | 1,7537 6 | -4,95415 | 0 | 0,5337 2 | 1,2229 3 |
| 12 | 331,6 21 | 20,4207 | 0 | 144.79 1,76 | 188,50 4 | 2,0864 7 | 3,89289 | 0 | 0,5940 02 | 1,2048 8 |
| 12 | 335,1 19 | 22,5288 | 0 | 132.68 1,40 | 194,23 9 | 2,1858 6 | 6,20687 | 0 | 0,6114 1 | 1,1996 4 |
| 12 | 335,1 19 | 22,5288 | 0 | 132.68 1,40 | 194,23 9 | 2,1858 5 | 6,20687 | 0 | 0,6114 14 | 1,1996 4 |
| 12 | 341,2 85 | 26,443 | 0 | 110.36 7,47 | 199,34 7 | 2,3920 8 | 10,1596 | 0 | 0,6463 59 | 1,1908 2 |

| | | | | | | | | | | |
|----|---------|----------|---|------------|------------|------------|----------|---|----------|---------|
| 12 | 341,285 | 26,443 | 0 | 110.367,47 | 199,347 | 2,39208 | 10,1596 | 0 | 0,646358 | 1,19082 |
| 12 | 348,105 | 30,9919 | 0 | 90.384,66 | 207,292 | 2,6492 | 13,1231 | 0 | 0,687438 | 1,18551 |
| 12 | 367,887 | 45,6572 | 0 | 58.452,03 | 219,65 | 3,33707 | 17,138 | 0 | 0,789234 | 1,18006 |
| 12 | 391,624 | 65,3775 | 0 | 44.063,29 | 221,777 | 3,92174 | 18,854 | 0 | 0,869184 | 1,17788 |
| 12 | 420,11 | 91,4548 | 0 | 32.940,23 | 223,048 | 4,65674 | 20,7609 | 0 | 0,962582 | 1,17449 |
| 12 | 454,292 | 125,989 | 0 | 25.575,92 | 224,679 | 5,39368 | 22,5997 | 0 | 1,05085 | 1,17045 |
| 12 | 494,886 | 170,451 | 0 | 20.511,54 | 226,733 | 6,17035 | 23,6384 | 0 | 1,13853 | 1,16877 |
| 12 | 495,31 | 170,935 | 0 | 20.467,48 | 226,755 | 6,17838 | 23,6459 | 0 | 1,13942 | 1,16876 |
| 12 | 544,533 | 229,479 | 0 | 16.239,98 | 229,402 | 7,09878 | 24,2554 | 0 | 1,23762 | 1,16839 |
| 12 | 603,6 | 305,844 | 0 | 12.774,92 | 232,779 | 8,18147 | 24,6007 | 0 | 1,34669 | 1,16869 |
| 12 | 674,48 | 405,645 | 0 | 9.961,6 | 237,093 | 9,45681 | 24,7911 | 0 | 1,4678 | 1,16928 |
| 12 | 716,563 | 468,851 | 0 | 8.728,95 | 239,778 | 10,2034 | 24,8521 | 0 | 1,53557 | 1,16963 |
| 13 | 299,381 | -22,5288 | 0 | 1,00 | 0,00177245 | 0,925914 | 24,6396 | 0 | 0,519559 | 1,17396 |
| 13 | 299,481 | -22,4788 | 0 | 186.736,33 | 2,25965 | 0,00705598 | -41,2843 | 0 | 0,497925 | 1,42298 |
| 13 | 299,581 | -22,429 | 0 | 196.207,54 | 3,20233 | 0,0131496 | -44,6648 | 0 | 0,498019 | 1,43859 |
| 13 | 299,681 | -22,3792 | 0 | 198.348,91 | 3,93457 | 0,019344 | -45,3286 | 0 | 0,498113 | 1,44154 |
| 13 | 299,781 | -22,3294 | 0 | 198.984,79 | 4,55571 | 0,0255737 | -45,5305 | 0 | 0,4982 | 1,44245 |
| 13 | 299,881 | -22,2796 | 0 | 199.099,05 | 5,10928 | 0,031793 | -45,5924 | 0 | 0,498287 | 1,44278 |
| 13 | 299,9 | - | 0 | 198.97 | 5,6144 | 0,0380 | -45,5959 | 0 | 0,4983 | 1,4428 |

| | | | | | | | | | | |
|----|-------|---------|---|--------|--------|--------|----------|---|--------|--------|
| | 81 | 22,2297 | | 0,90 | | 003 | | | 75 | 8 |
| 13 | 300,0 | - | 0 | 198.71 | 6,0836 | 0,0441 | -45,5711 | 0 | 0,4984 | 1,4428 |
| | 81 | 22,1799 | | 4,98 | 3 | 852 | | | 63 | 7 |
| 13 | 300,1 | -22,13 | 0 | 198.38 | 6,5243 | 0,0503 | -45,531 | 0 | 0,4985 | 1,4428 |
| | 81 | | | 6,13 | 6 | 541 | | | 51 | 1 |
| 13 | 300,2 | - | 0 | 198.01 | 6,9414 | 0,0565 | -45,4825 | 0 | 0,4986 | 1,4427 |
| | 81 | 22,0802 | | 5,06 | 8 | 126 | | | 39 | 2 |
| 13 | 300,3 | - | 0 | 197.62 | 7,3391 | 0,0626 | -45,4331 | 0 | 0,4987 | 1,4426 |
| | 81 | 22,0303 | | 6,38 | 1 | 554 | | | 24 | 3 |
| 13 | 300,4 | - | 0 | 197.34 | 7,7202 | 0,0687 | -45,4457 | 0 | 0,4987 | 1,4428 |
| | 81 | 21,9804 | | 9,54 | 6 | 252 | | | 96 | 7 |
| 13 | 300,5 | - | 0 | 197.37 | 8,0875 | 0,0746 | -45,6138 | 0 | 0,4988 | 1,4439 |
| | 81 | 21,9305 | | 1,83 | 2 | 028 | | | 41 | 3 |
| 13 | 300,6 | - | 0 | 197.74 | 8,4430 | 0,0802 | -45,9647 | 0 | 0,4988 | 1,4459 |
| | 81 | 21,8807 | | 9,28 | 8 | 125 | | | 55 | 5 |
| 13 | 300,7 | - | 0 | 198.43 | 8,7885 | 0,0855 | -46,4719 | 0 | 0,4988 | 1,4487 |
| | 81 | 21,8308 | | 4,33 | 6 | 393 | | | 47 | 9 |
| 13 | 300,8 | - | 0 | 199.33 | 9,1249 | 0,0906 | -47,0846 | 0 | 0,4988 | 1,4522 |
| | 81 | 21,7809 | | 3,86 | 9 | 131 | | | 3 | 1 |
| 13 | 300,9 | -21,731 | 0 | 200.37 | 9,4531 | 0,0954 | -47,7635 | 0 | 0,4988 | 1,4559 |
| | 81 | | | 5,89 | 4 | 654 | | | 12 | 8 |
| 13 | 301,0 | - | 0 | 201.51 | 9,7737 | 0,1001 | -48,4818 | 0 | 0,4987 | 1,4599 |
| | 81 | 21,6811 | | 0,09 | 2 | 2 | | | 98 | 8 |
| 13 | 301,1 | - | 0 | 202.71 | 10,087 | 0,1045 | -49,2276 | 0 | 0,4987 | 1,4641 |
| | 81 | 21,6312 | | 1,17 | 2 | 98 | | | 86 | 5 |
| 13 | 301,2 | - | 0 | 203.95 | 10,394 | 0,1089 | -49,9908 | 0 | 0,4987 | 1,4684 |
| | 81 | 21,5814 | | 9,18 | 2 | 14 | | | 76 | 3 |
| 13 | 301,3 | - | 0 | 205.23 | 10,695 | 0,1130 | -50,7639 | 0 | 0,4987 | 1,4727 |
| | 81 | 21,5315 | | 8,38 | 5 | 79 | | | 68 | 9 |
| 13 | 301,5 | - | 0 | 206.79 | 11,050 | 0,1178 | -51,696 | 0 | 0,4987 | 1,4780 |
| | 01 | 21,4716 | | 6,57 | 4 | 89 | | | 62 | 8 |
| 13 | 301,6 | - | 0 | 208.67 | 11,467 | 0,1234 | -52,8111 | 0 | 0,4987 | 1,4844 |
| | 45 | 21,3998 | | 8,03 | 7 | 12 | | | 6 | 5 |
| 13 | 301,8 | - | 0 | 210.92 | 11,957 | 0,1297 | -54,1327 | 0 | 0,4987 | 1,4920 |
| | 17 | 21,3136 | | 6,30 | 5 | 18 | | | 66 | 7 |
| 13 | 302,0 | - | 0 | 213.58 | 12,531 | 0,1368 | -55,6826 | 0 | 0,4987 | 1,5011 |
| | 25 | 21,2102 | | 0,25 | 3 | 73 | | | 84 | 3 |
| 13 | 302,2 | - | 0 | 216.67 | 13,202 | 0,1449 | -57,4787 | 0 | 0,4988 | 1,5117 |

| | | | | | | | | | | |
|----|-------------|--------------|------|----------------|-------------|--------------|----------|---|--------------|-------------|
| | 74 | 21,0861 | 0,41 | 4 | 4 | | | | 22 | 7 |
| 13 | 302,5 72 | - 20,9371 | 0 | 220.21 4,41 | 13,985 9 | 0,1539 8 | -59,5332 | 0 | 0,4988 87 | 1,5241 7 |
| 13 | 302,9 3 | - 20,7583 | 0 | 224.30 1,90 | 14,898 2 | 0,1640 81 | -61,9017 | 0 | 0,4989 92 | 1,5387 6 |
| 13 | 303,3 6 | - 20,5437 | 0 | 228.79 3,47 | 15,963 5 | 0,1752 21 | -64,5099 | 0 | 0,4991 38 | 1,5552 2 |
| 13 | 303,8 76 | - 20,2862 | 0 | 233.58 0,77 | 17,207 3 | 0,1874 39 | -67,3146 | 0 | 0,4993 4 | 1,5734 3 |
| 13 | 304,4 96 | - 19,9769 | 0 | 238.62 9,33 | 18,656 5 | 0,2008 94 | -70,2715 | 0 | 0,4996 17 | 1,5931 7 |
| 13 | 305,2 39 | - 19,6055 | 0 | 243.80 9,06 | 20,339 6 | 0,2161 77 | -72,9716 | 0 | 0,4999 8 | 1,6113 5 |
| 13 | 306,1 3 | - 19,1595 | 0 | 248.91 1,26 | 22,292 4 | 0,2338 39 | -75,1772 | 0 | 0,5004 41 | 1,6259 8 |
| 13 | 307,2 | - 18,6238 | 0 | 253.99 6,60 | 24,560 4 | 0,2539 37 | -76,8951 | 0 | 0,5009 94 | 1,6368 6 |
| 13 | 308,4 84 | - 17,9802 | 0 | 259.72 0,86 | 27,218 5 | 0,2751 28 | -78,4279 | 0 | 0,5016 14 | 1,6459 3 |
| 13 | 310,0 25 | - 17,2067 | 0 | 265.72 2,19 | 30,438 6 | 0,2969 14 | -79,4815 | 0 | 0,5023 8 | 1,6508 4 |
| 13 | 311,8 74 | -16,277 | 0 | 271.03 2,28 | 34,408 | 0,3204 35 | -79,4508 | 0 | 0,5033 62 | 1,6469 4 |
| 13 | 314,0 92 | - 15,1589 | 0 | 274.63 2,71 | 39,292 | 0,3479 45 | -77,8022 | 0 | 0,5045 65 | 1,6305 |
| 13 | 316,7 55 | - 13,8137 | 0 | 275.14 1,99 | 45,273 4 | 0,3825 53 | -74,0849 | 0 | 0,5059 72 | 1,5995 |
| 13 | 319,9 49 | - 12,1947 | 0 | 271.26 4,63 | 52,573 8 | 0,4275 69 | -68,192 | 0 | 0,5075 26 | 1,5557 3 |
| 13 | 323,7 83 | - 10,2458 | 0 | 262.03 9,39 | 61,457 7 | 0,4866 68 | -60,3319 | 0 | 0,5091 41 | 1,5037 1 |
| 13 | 328,3 84 | - 7,89976 | 0 | 247.20 0,95 | 72,222 8 | 0,5644 11 | -50,9684 | 0 | 0,5107 07 | 1,4489 2 |
| 13 | 333,9 04 | - 5,07607 | 0 | 226.92 0,09 | 85,180 5 | 0,6667 8 | -40,6254 | 0 | 0,5122 27 | 1,3957 9 |
| 13 | 340,5 29 | - 1,67777 | 0 | 202.06 5,94 | 100,64 4 | 0,8020 61 | -29,8757 | 0 | 0,5136 57 | 1,3473 8 |
| 13 | 348,4 | 2,41108 | 0 | 174.03 | 118,92 | 0,9817 | -19,3758 | 0 | 0,5149 | 1,3057 |

| | | | | | | | | | | |
|----|-------------|--------------|---|----------------|----------------|----------------|----------|---|--------------|-------------|
| | 79 | | | 5,06 | 2 | 94 | | | 61 | 5 |
| 13 | 358,0 18 | 7,3296 | 0 | 144.36 5,05 | 140,35 8 | 1,2204 9 | -9,75083 | 0 | 0,5161 74 | 1,2718 8 |
| 13 | 369,4 66 | 13,2451 | 0 | 114.91 3,69 | 165,35 9 | 1,5366 2 | -1,41464 | 0 | 0,5172 65 | 1,2452 8 |
| 13 | 383,2 03 | 20,5283 | 0 | 86.284, 13 | 193,88 3 | 1,8465 | 6,12302 | 0 | 0,5536 31 | 1,2223 4 |
| 13 | 386,7 69 | 22,5288 | 0 | 79.117, 89 | 200,73 3 | 1,9281 9 | 8,1505 | 0 | 0,5683 9 | 1,2158 7 |
| 13 | 386,7 69 | 22,5288 | 0 | 79.117, 89 | 200,73 3 | 1,9282 | 8,1505 | 0 | 0,5683 89 | 1,2158 7 |
| 13 | 399,6 87 | 30,5095 | 0 | 55.192, 15 | 209,77 3 | 2,2914 4 | 14,1852 | 0 | 0,6307 62 | 1,1973 8 |
| 13 | 409,8 59 | 37,4586 | 0 | 41.860, 79 | 219,07 6 | 2,6293 2 | 16,7374 | 0 | 0,6847 33 | 1,1908 2 |
| 13 | 409,8 59 | 37,4586 | 0 | 41.860, 79 | 219,07 6 | 2,6293 2 | 16,7374 | 0 | 0,6847 33 | 1,1908 2 |
| 13 | 419,4 69 | 44,2801 | 0 | 33.169, 27 | 231,22 | 2,9558 5 | 18,1847 | 0 | 0,7342 35 | 1,1875 2 |
| 13 | 441,3 64 | 61,4376 | 0 | 22.465, 82 | 248,72 2 | 3,6223 | 19,8212 | 0 | 0,8288 58 | 1,1840 8 |
| 13 | 443,2 06 | 62,9726 | 0 | 21.903, 58 | 249,56 | 3,6729 9 | 19,9132 | 0 | 0,8357 52 | 1,1838 8 |
| 13 | 471,6 92 | 88,2055 | 0 | 16.133, 11 | 253,24 8 | 4,4208 8 | 22,3435 | 0 | 0,9333 81 | 1,1766 4 |
| 13 | 505,8 74 | 121,83 | 0 | 12.508, 02 | 254,80 8 | 5,1770 9 | 23,5495 | 0 | 1,0255 | 1,1734 5 |
| 13 | 546,8 92 | 165,735 | 0 | 9.964,5 7 | 256,84 2 | 5,9494 1 | 24,1989 | 0 | 1,1140 8 | 1,172 |
| 13 | 549,0 48 | 168,141 | 0 | 9.857,2 9 | 256,95 2 | 5,9895 6 | 24,2218 | 0 | 1,1185 5 | 1,1719 6 |
| | | | | | | | | | | |
| 14 | 562,1 08 | - 22,5288 | 0 | 1,00 | 0,0017 7245 | 0,9259 14 | 24,6396 | 0 | 0,5195 59 | 1,1739 6 |
| 14 | 562,2 08 | -22,477 | 0 | 16.401, 67 | 2,2763 6 | 0,0061 8166 | -18,2969 | 0 | 0,5180 07 | 1,3833 2 |
| 14 | 562,3 08 | - 22,4252 | 0 | 16.943, 34 | 3,2485 2 | 0,0116 214 | -21,5819 | 0 | 0,5180 26 | 1,4013 8 |

| | | | | | | | | | | |
|----|-------------|--------------|---|---------------|-------------|---------------|----------|---|--------------|-------------|
| 14 | 562,4 08 | - 22,3734 | 0 | 17.031, 82 | 3,9955 6 | 0,0171 768 | -22,2978 | 0 | 0,5180 35 | 1,4053 8 |
| 14 | 562,5 08 | - 22,3216 | 0 | 17.039, 70 | 4,6292 8 | 0,0227 568 | -22,5623 | 0 | 0,5180 42 | 1,4068 8 |
| 14 | 562,6 08 | - 22,2698 | 0 | 17.022, 58 | 5,1911 6 | 0,0283 43 | -22,6869 | 0 | 0,5180 47 | 1,4076 |
| 14 | 562,7 08 | -22,218 | 0 | 16.995, 12 | 5,7035 2 | 0,0339 212 | -22,7543 | 0 | 0,5180 53 | 1,408 |
| 14 | 562,8 08 | - 22,1662 | 0 | 16.962, 58 | 6,1782 1 | 0,0394 934 | -22,7939 | 0 | 0,5180 58 | 1,4082 4 |
| 14 | 562,9 08 | - 22,1144 | 0 | 16.927, 37 | 6,6229 3 | 0,0450 607 | -22,8183 | 0 | 0,5180 64 | 1,4084 |
| 14 | 563,0 08 | - 22,0626 | 0 | 16.890, 76 | 7,0436 5 | 0,0506 196 | -22,8336 | 0 | 0,5180 69 | 1,4085 |
| 14 | 563,1 08 | - 22,0107 | 0 | 16.853, 26 | 7,4448 1 | 0,0561 661 | -22,8433 | 0 | 0,5180 74 | 1,4085 8 |
| 14 | 563,2 08 | - 21,9589 | 0 | 16.815, 19 | 7,8295 8 | 0,0616 987 | -22,8493 | 0 | 0,5180 79 | 1,4086 3 |
| 14 | 563,3 08 | - 21,9071 | 0 | 16.776, 80 | 8,1999 8 | 0,0672 213 | -22,8527 | 0 | 0,5180 84 | 1,4086 7 |
| 14 | 563,4 08 | - 21,8553 | 0 | 16.738, 17 | 8,5580 1 | 0,0727 319 | -22,8542 | 0 | 0,5180 89 | 1,4087 |
| 14 | 563,5 08 | - 21,8035 | 0 | 16.703, 82 | 8,9046 9 | 0,0782 088 | -22,874 | 0 | 0,5180 94 | 1,4088 3 |
| 14 | 563,6 08 | - 21,7517 | 0 | 16.693, 13 | 9,2416 | 0,0835 177 | -22,9981 | 0 | 0,5180 97 | 1,4095 5 |
| 14 | 563,7 08 | - 21,6999 | 0 | 16.707, 69 | 9,5696 6 | 0,0886 201 | -23,2341 | 0 | 0,5180 99 | 1,4108 9 |
| 14 | 563,8 08 | - 21,6481 | 0 | 16.746, 28 | 9,8900 7 | 0,0934 913 | -23,5776 | 0 | 0,5180 99 | 1,4128 3 |
| 14 | 563,9 08 | - 21,5963 | 0 | 16.802, 37 | 10,203 5 | 0,0981 572 | -23,9986 | 0 | 0,5180 98 | 1,4152 1 |
| 14 | 564,0 08 | - 21,5445 | 0 | 16.874, 70 | 10,510 7 | 0,1026 07 | -24,4922 | 0 | 0,5180 97 | 1,4180 1 |
| 14 | 564,1 08 | - 21,4927 | 0 | 16.957, 10 | 10,812 3 | 0,1068 81 | -25,0298 | 0 | 0,5180 95 | 1,4210 7 |
| 14 | 564,2 28 | - 21,4305 | 0 | 17.066, 37 | 11,167 2 | 0,1117 91 | -25,7203 | 0 | 0,5180 94 | 1,4250 1 |



| | | | | | | | | | | |
|----|-------------|--------------|---|---------------|-------------|--------------|----------|---|--------------|-------------|
| 14 | 564,3 72 | - 21,3559 | 0 | 17.207, 45 | 11,584 | 0,1174 04 | -26,5922 | 0 | 0,5180 93 | 1,4300 2 |
| 14 | 564,5 45 | - 21,2664 | 0 | 17.387, 19 | 12,072 1 | 0,1237 71 | -27,6855 | 0 | 0,5180 91 | 1,4363 4 |
| 14 | 564,7 52 | - 21,1589 | 0 | 17.611, 61 | 12,642 7 | 0,1309 39 | -29,0373 | 0 | 0,5180 91 | 1,4442 3 |
| 14 | 565,0 01 | -21,03 | 0 | 17.886, 11 | 13,309 2 | 0,1389 35 | -30,683 | 0 | 0,5180 91 | 1,4539 4 |
| 14 | 565,2 99 | - 20,8753 | 0 | 18.216, 75 | 14,086 5 | 0,1477 65 | -32,6655 | 0 | 0,5180 93 | 1,4658 |
| 14 | 565,6 58 | - 20,6897 | 0 | 18.607, 82 | 14,992 3 | 0,1574 17 | -35,0209 | 0 | 0,5180 96 | 1,4801 4 |
| 14 | 566,0 88 | - 20,4669 | 0 | 19.062, 03 | 16,046 3 | 0,1678 74 | -37,7791 | 0 | 0,5181 02 | 1,4972 9 |
| 14 | 566,6 04 | - 20,1996 | 0 | 19.579, 52 | 17,273 1 | 0,1790 79 | -40,9593 | 0 | 0,5181 12 | 1,5175 5 |
| 14 | 567,2 23 | - 19,8787 | 0 | 20.157, 03 | 18,703 4 | 0,1909 53 | -44,5653 | 0 | 0,5181 25 | 1,5411 9 |
| 14 | 567,9 66 | - 19,4938 | 0 | 20.784, 51 | 20,370 3 | 0,2036 74 | -48,3765 | 0 | 0,5181 45 | 1,5669 9 |
| 14 | 568,8 57 | - 19,0318 | 0 | 21.444, 47 | 22,308 6 | 0,2178 26 | -51,9033 | 0 | 0,5181 7 | 1,5915 9 |
| 14 | 569,9 27 | - 18,4774 | 0 | 22.108, 04 | 24,558 1 | 0,2340 89 | -54,8178 | 0 | 0,5182 03 | 1,6124 5 |
| 14 | 571,2 11 | -17,812 | 0 | 22.749, 42 | 27,164 7 | 0,2530 14 | -56,9938 | 0 | 0,5182 44 | 1,6283 |
| 14 | 572,7 52 | - 17,0135 | 0 | 23.474, 87 | 30,238 | 0,2723 82 | -58,9781 | 0 | 0,5182 88 | 1,6429 4 |
| 14 | 574,6 01 | - 16,0552 | 0 | 24.255, 39 | 34,047 9 | 0,2910 95 | -60,406 | 0 | 0,5183 44 | 1,6534 8 |
| 14 | 576,8 19 | - 14,9051 | 0 | 24.929, 92 | 38,769 9 | 0,3119 19 | -60,3293 | 0 | 0,5184 21 | 1,6524 6 |
| 14 | 579,4 82 | - 13,5248 | 0 | 25.332, 78 | 44,567 6 | 0,3382 56 | -58,1349 | 0 | 0,5185 14 | 1,6353 3 |
| 14 | 582,6 77 | - 11,8681 | 0 | 25.307, 33 | 51,658 9 | 0,3735 07 | -53,5957 | 0 | 0,5186 21 | 1,6015 1 |
| 14 | 586,5 1 | - 9,87957 | 0 | 24.734, 18 | 60,329 9 | 0,4210 3 | -46,919 | 0 | 0,5187 36 | 1,5545 4 |

| | | | | | | | | | | |
|----|-------------|--------------|---|---------------|-------------|--------------|----------|---|--------------|-------------|
| 14 | 591,1 11 | - 7,49284 | 0 | 23.523, 82 | 70,914 1 | 0,4850 01 | -38,6309 | 0 | 0,5188 54 | 1,5001 8 |
| 14 | 596,6 32 | - 4,62812 | 0 | 21.689, 30 | 83,795 5 | 0,5701 15 | -29,5082 | 0 | 0,5189 7 | 1,4447 9 |
| 14 | 603,2 56 | -1,1897 | 0 | 19.331, 15 | 99,388 6 | 0,6822 94 | -20,3255 | 0 | 0,5190 83 | 1,3930 4 |
| 14 | 611,2 06 | 2,93727 | 0 | 16.649, 84 | 118,15 8 | 0,8282 04 | -11,7951 | 0 | 0,5191 88 | 1,3479 6 |
| 14 | 620,7 46 | 7,89057 | 0 | 13.890, 88 | 140,63 4 | 1,0166 | -4,28664 | 0 | 0,5192 78 | 1,3100 6 |
| 14 | 632,1 93 | 13,8355 | 0 | 11.158, 33 | 167,38 6 | 1,2608 7 | 2,18272 | 0 | 0,5193 66 | 1,2783 |
| 14 | 645,9 3 | 20,9708 | 0 | 8.372,3 8 | 198,61 1 | 1,6053 4 | 8,83149 | 0 | 0,5194 63 | 1,2462 3 |
| 14 | 648,9 22 | 22,5288 | 0 | 7.779,5 7 | 205,15 2 | 1,6793 4 | 10,3048 | 0 | 0,5243 3 | 1,2391 2 |
| 14 | 648,9 22 | 22,5288 | 0 | 7.779,5 7 | 205,15 2 | 1,6793 5 | 10,3048 | 0 | 0,5243 27 | 1,2391 2 |
| 14 | 648,9 22 | 22,529 | 0 | 7.779,4 8 | 205,15 2 | 1,6793 6 | 10,305 | 0 | 0,5243 29 | 1,2391 2 |
| 14 | 662,4 15 | 30,3736 | 0 | 5.356,8 2 | 209,48 5 | 1,9878 1 | 15,6189 | 0 | 0,5797 15 | 1,2134 6 |
| 14 | 682,1 96 | 44,0089 | 0 | 3.205,2 1 | 226,15 2 | 2,5384 5 | 18,9853 | 0 | 0,6705 8 | 1,1972 8 |
| 14 | 699,4 28 | 57,3628 | 0 | 2.163,1 2 | 244,49 2 | 3,0655 3 | 20,3599 | 0 | 0,7502 94 | 1,1908 2 |
| 14 | 699,4 28 | 57,3628 | 0 | 2.163,1 2 | 244,49 2 | 3,0653 3 | 20,3599 | 0 | 0,7503 43 | 1,1908 2 |
| 14 | 705,9 34 | 62,3456 | 0 | 1.885,1 9 | 253,62 4 | 3,2828 2 | 21,3463 | 0 | 0,7816 35 | 1,1869 5 |
| 14 | 709,0 17 | 64,779 | 0 | 1.768,5 3 | 257,40 1 | 3,3907 7 | 21,7232 | 0 | 0,7968 58 | 1,1854 9 |
| 14 | 734,4 19 | 86,6247 | 0 | 1.125,6 9 | 277,89 2 | 4,3297 2 | 23,4963 | 0 | 0,9218 67 | 1,1786 8 |
| 14 | 768,6 01 | 120,442 | 0 | 803,05 | 285,00 7 | 5,2914 5 | 24,2457 | 0 | 1,0389 2 | 1,1758 5 |
| 14 | 809,6 2 | 164,916 | 0 | 641,97 | 287,08 5 | 6,0782 5 | 24,5805 | 0 | 1,1283 8 | 1,1746 |



| | | | | | | | | | | |
|----|-------|---------|---|--------|--------|--------|---------|---|--------|--------|
| 14 | 814,9 | 170,936 | 0 | 624,95 | 287,36 | 6,1787 | 24,6089 | 0 | 1,1394 | 1,1744 |
| | 28 | | | | | 2 | | | 5 | 9 |

Weather: Category 5/D

| | |
|--------------------------------|--|
| Wind speed [m/s] | 5 |
| Pasquill stability | D neutral - little sun and high wind or overcast/windy night |
| Atmospheric temperature [degC] | 25 |
| Relative humidity [fraction] | 0,75 |
| Solar radiation flux [kW/m2] | 0,5 |
| Mixing layer height [m] | 800 |

Observer Release Data and Observer Mass Data

| Observer number | Release type | Start time [s] | Start downwind distance [m] | Unit | Masses or mass rates | | | |
|-----------------|--------------|----------------|-----------------------------|------|----------------------|---------|---------------------|-----------|
| | | | | | Release | Rainout | Pool vapour pick-up | Final |
| 1 | Continuous | 0 | 0 | kg/s | 68,255 | 68,2008 | | 0,0542196 |
| 2 | Continuous | 0,22 | -0,372445 | kg/s | 68,255 | 68,2008 | | 2,30858 |
| 3 | Continuous | 47,796 | -13,6682 | kg/s | 68,255 | 68,2008 | | 54,2942 |
| 4 | Continuous | 82,765 | -16,0407 | kg/s | 68,255 | 68,2008 | | 55,4336 |
| 5 | Continuous | 116,654 | -17,733 | kg/s | 68,255 | 68,2008 | | 57,389 |
| 6 | Continuous | 149,569 | -19,036 | kg/s | 68,255 | 68,2008 | | 58,6374 |
| 7 | Continuous | 181,785 | -20,0872 | kg/s | 68,255 | 68,2008 | | 59,5461 |
| 8 | Continuous | 213,545 | -20,9855 | kg/s | 68,255 | 68,2008 | | 60,2608 |
| 9 | Continuous | 244,453 | -21,7443 | kg/s | 68,255 | 68,2008 | | 55,1703 |
| 10 | Continuous | 244,938 | -21,7559 | kg/s | 68,255 | 68,2008 | | 54,6139 |

| | | | | | | | | |
|----|----------------|-------------|----------|------|---|---|-------------|---------|
| 11 | Continuou s | 244,93 9 | -21,7559 | kg/s | 0 | 0 | 54,559 6 | 54,5596 |
| 12 | Continuou s | 257,78 2 | -21,9685 | kg/s | 0 | 0 | | 39,617 |
| 13 | Continuou s | 290,95 4 | -21,9685 | kg/s | 0 | 0 | | 22,8964 |
| 14 | Continuou s | 511,35 6 | -21,9685 | kg/s | 0 | 0 | | 1,77219 |

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

| Observer number | Time [s] | Down wind distance [m] | C/Line height [m] | C/Line conc [ppm] | Effective width [m] | Effective depth [m] | C/Line vapour temperature [degC] | C/Line liquid fraction | Centroid velocity [m/s] | C/Line cloud density [kg/m ³] |
|-----------------|----------|------------------------|-------------------|-------------------|---------------------|---------------------|----------------------------------|------------------------|-------------------------|---|
| 1 | 0 | 0 | 0 | 999.20 6,39 | 0,05954 25 | 0,0285 371 | -160,196 | 0 | 15,716 7 | 2,0328 4 |
| 1 | 0,01 | 0,12891 | 0 | 903.26 7,47 | 0,07167 11 | 0,0454 907 | -139,183 | 0 | 10,910 2 | 1,7829 8 |
| 1 | 0,02 | 0,22664 6 | 0 | 846.98 0,62 | 0,08110 6 | 0,0584 319 | -125,835 | 0 | 8,8490 2 | 1,6631 |
| 1 | 0,03 | 0,30872 2 | 0 | 807.78 5,62 | 0,09025 3 | 0,0681 547 | -115,922 | 0 | 7,6502 9 | 1,5867 3 |
| 1 | 0,04 | 0,38103 8 | 0 | 778.27 7,13 | 0,09959 77 | 0,0754 16 | -107,981 | 0 | 6,8421 9 | 1,5313 7 |
| 1 | 0,05 | 0,44644 2 | 0 | 755.05 7,72 | 0,10895 | 0,0809 897 | -101,331 | 0 | 6,2521 2 | 1,4881 6 |
| 1 | 0,06 | 0,50658 3 | 0 | 736.18 3,99 | 0,11819 7 | 0,0853 808 | -95,577 | 0 | 5,7990 8 | 1,4527 |
| 1 | 0,07 | 0,56265 1 | 0 | 719.60 6,20 | 0,12726 3 | 0,0892 261 | -90,3199 | 0 | 5,4319 7 | 1,4219 1 |
| 1 | 0,08 | 0,61539 9 | 0 | 703.61 8,36 | 0,13610 6 | 0,0930 563 | -85,2417 | 0 | 5,1215 5 | 1,3939 1 |

| | | | | | | | | | | |
|---|----------|----------|---|------------|----------|-----------|----------|---|---------|---------|
| 1 | 0,09 | 0,665306 | 0 | 688.156,50 | 0,144702 | 0,0968586 | -80,3663 | 0 | 4,85696 | 1,36857 |
| 1 | 0,1 | 0,71277 | 0 | 673.262,47 | 0,153031 | 0,100583 | -75,7584 | 0 | 4,62998 | 1,34603 |
| 1 | 0,11 | 0,758121 | 0 | 658.889,11 | 0,161078 | 0,104243 | -71,405 | 0 | 4,43362 | 1,32593 |
| 1 | 0,12 | 0,80161 | 0 | 645.011,38 | 0,168833 | 0,107842 | -67,2885 | 0 | 4,26288 | 1,30794 |
| 1 | 0,13 | 0,843468 | 0 | 631.606,99 | 0,176285 | 0,111392 | -63,3917 | 0 | 4,11353 | 1,29176 |
| 1 | 0,14 | 0,88391 | 0 | 618.655,26 | 0,183425 | 0,114911 | -59,699 | 0 | 3,982 | 1,27716 |
| 1 | 0,15 | 0,92312 | 0 | 606.138,32 | 0,190242 | 0,118415 | -56,197 | 0 | 3,86539 | 1,26393 |
| 1 | 0,16 | 0,961259 | 0 | 594.040,10 | 0,196728 | 0,121924 | -52,8734 | 0 | 3,76137 | 1,25192 |
| 1 | 0,17 | 0,99843 | 0 | 582.346,85 | 0,202873 | 0,125443 | -49,7184 | 0 | 3,66835 | 1,24099 |
| 1 | 0,18 | 1,03473 | 0 | 571.044,98 | 0,208666 | 0,12898 | -46,7233 | 0 | 3,58494 | 1,23102 |
| 1 | 0,19 | 1,07024 | 0 | 560.121,57 | 0,214095 | 0,132545 | -43,8802 | 0 | 3,51002 | 1,22192 |
| 1 | 0,2 | 1,10501 | 0 | 549.564,24 | 0,219143 | 0,136146 | -41,1829 | 0 | 3,44273 | 1,21361 |
| 1 | 0,212 | 1,14588 | 0 | 537.362,54 | 0,224675 | 0,14054 | -38,1294 | 0 | 3,37073 | 1,20457 |
| 1 | 0,2264 | 1,19384 | 0 | 523.370,31 | 0,230496 | 0,145979 | -34,7162 | 0 | 3,295 | 1,19494 |
| 1 | 0,24368 | 1,25008 | 0 | 507.478,55 | 0,236434 | 0,152722 | -30,9601 | 0 | 3,21656 | 1,18493 |
| 1 | 0,264416 | 1,31593 | 0 | 489.568,70 | 0,243192 | 0,160456 | -26,8964 | 0 | 3,13725 | 1,17485 |
| 1 | 0,289299 | 1,39297 | 0 | 469.011,89 | 0,251753 | 0,168935 | -22,5078 | 0 | 3,0584 | 1,16482 |
| 1 | 0,319159 | 1,48312 | 0 | 445.248,59 | 0,262659 | 0,178287 | -17,8241 | 0 | 2,98098 | 1,15543 |
| 1 | 0,354991 | 1,58861 | 0 | 418.572,73 | 0,276143 | 0,188457 | -13,0374 | 0 | 2,90755 | 1,14725 |



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|---|--------------|---------|---|----------------|--------------|--------------|----------|---|-------------|-------------|
| 1 | 0,397 989 | 1,71217 | 0 | 389.12 6,53 | 0,29276 | 0,1993 83 | -8,32303 | 0 | 2,8400 2 | 1,1408 7 |
| 1 | 0,449 587 | 1,8572 | 0 | 357.21 0,70 | 0,31311 3 | 0,2110 91 | -3,84982 | 0 | 2,7799 6 | 1,1367 1 |
| 1 | 0,511 504 | 2,02772 | 0 | 323.31 9,88 | 0,33788 5 | 0,2236 01 | 0,125263 | 0 | 2,7287 | 1,1354 4 |
| 1 | 0,585 805 | 2,22879 | 0 | 288.13 8,59 | 0,36782 9 | 0,2375 68 | 3,96971 | 0 | 2,6867 5 | 1,1352 4 |
| 1 | 0,674 966 | 2,46675 | 0 | 252.46 2,00 | 0,40386 3 | 0,2533 37 | 7,38116 | 0 | 2,6537 7 | 1,1368 7 |
| 1 | 0,781 959 | 2,74923 | 0 | 217.25 2,15 | 0,44701 2 | 0,2715 83 | 10,338 | 0 | 2,6290 8 | 1,1399 7 |
| 1 | 0,910 351 | 3,08557 | 0 | 183.50 9,19 | 0,49844 3 | 0,2931 57 | 12,8465 | 0 | 2,6114 8 | 1,1441 |
| 1 | 1,064 42 | 3,48693 | 0 | 152.15 0,57 | 0,55953 5 | 0,3190 24 | 14,9298 | 0 | 2,5996 4 | 1,1488 1 |
| 1 | 1,249 31 | 3,96682 | 0 | 123.89 9,56 | 0,63188 8 | 0,3502 74 | 16,6246 | 0 | 2,5920 9 | 1,1536 9 |
| 1 | 1,333 9 | 4,18601 | 0 | 113.50 2,05 | 0,66465 2 | 0,3646 61 | 17,208 | 0 | 2,5899 6 | 1,1556 2 |
| 1 | 1,333 9 | 4,18601 | 0 | 113.50 2,05 | 0,66465 2 | 0,3646 61 | 17,208 | 0 | 2,5899 6 | 1,1556 2 |
| 1 | 1,471 17 | 4,54134 | 0 | 99.133, 58 | 0,71697 5 | 0,3886 08 | 17,9788 | 0 | 2,5875 4 | 1,1584 3 |
| 1 | 1,737 4 | 5,22985 | 0 | 77.804, 43 | 0,81479 8 | 0,4382 62 | 19,2339 | 0 | 2,5849 3 | 1,1622 3 |
| 1 | 2,056 88 | 6,05543 | 0 | 59.799, 27 | 0,92698 | 0,5047 96 | 21,1486 | 0 | 2,5835 1 | 1,1625 1 |
| 1 | 2,440 26 | 7,04572 | 0 | 45.037, 42 | 1,053 | 0,5929 26 | 22,4936 | 0 | 2,5827 8 | 1,1636 3 |
| 1 | 2,900 31 | 8,23384 | 0 | 33.290, 55 | 1,18807 | 0,7132 63 | 23,4039 | 0 | 2,5824 1 | 1,1651 4 |
| 1 | 3,452 37 | 9,65943 | 0 | 24.285, 03 | 1,33441 | 0,8723 47 | 23,9961 | 0 | 2,5822 4 | 1,1667 |
| 1 | 4,114 84 | 11,3701 | 0 | 17.633, 73 | 1,50974 | 1,0632 6 | 24,3705 | 0 | 2,5821 5 | 1,1681 |
| 1 | 4,909 81 | 13,4228 | 0 | 12.747, 85 | 1,71984 | 1,2921 6 | 24,6064 | 0 | 2,5821 1 | 1,1692 8 |

| | | | | | | | | | | |
|---|-------------|-------------------|---|----------------|----------------|---------------|----------|---|--------------|-------------|
| 1 | 5,863 77 | 15,8861 | 0 | 9.178,2 2 | 1,97108 | 1,5667 5 | 24,7546 | 0 | 2,5820 9 | 1,1702 4 |
| 1 | 7,008 53 | 18,9074 | 0 | 6.513,3 4 | 2,27798 | 1,8292 2 | 24,8495 | 0 | 2,6974 6 | 1,1710 1 |
| 1 | 8,121 14 | 21,9687 | 0 | 4.818,4 3 | 2,58765 | 2,0942 1 | 24,9016 | 0 | 2,8043 1 | 1,1715 4 |
| 1 | 8,382 23 | 22,7052 | 0 | 4.553,7 8 | 2,66194 | 2,1587 2 | 24,9104 | 0 | 2,8287 8 | 1,1716 4 |
| 1 | 10,03 07 | 27,4931 | 0 | 3.221,8 1 | 3,14331 | 2,5749 | 24,948 | 0 | 2,9755 9 | 1,1721 2 |
| 1 | 12,00 88 | 33,5417 | 0 | 2.241,8 3 | 3,74754 | 3,0992 8 | 24,9705 | 0 | 3,1382 4 | 1,1724 7 |
| 1 | 13,99 85 | 39,9382 | 0 | 1.614,1 2 | 4,38223 | 3,6530 8 | 24,982 | 0 | 3,2898 | 1,1727 |
| 1 | 14,38 26 | 41,2072 | 0 | 1.529,1 3 | 4,50765 | 3,7629 1 | 24,9836 | 0 | 3,3179 | 1,1727 3 |
| 1 | 17,23 11 | 50,9441 | 0 | 1.037,2 4 | 5,46506 | 4,6070 9 | 24,991 | 0 | 3,5164 | 1,1729 |
| 1 | 20,64 93 | 63,3416 | 0 | 691,75 | 6,67261 | 5,6810 1 | 24,9951 | 0 | 3,7342 8 | 1,1730 2 |
| 1 | 24,75 12 | 79,1559 | 0 | 448,09 | 8,19682 | 7,0495 7 | 24,9974 | 0 | 3,9729 5 | 1,1731 |
| 1 | 25,78 06 | 83,2751 | 0 | 401,23 | 8,59117 | 7,4061 1 | 24,9977 | 0 | 4,0295 9 | 1,1731 1 |
| | | | | | | | | | | |
| 2 | 0,22 | - 0,37244 5 | 0 | 1,00 | 0,00177 245 | 0,1863 1 | 24,6396 | 0 | 2,5820 8 | 1,1739 6 |
| 2 | 0,32 | - 0,28380 7 | 0 | 875.79 2,64 | 0,61794 6 | 0,0845 829 | -139,687 | 0 | 0,8232 64 | 1,8168 2 |
| 2 | 0,42 | - 0,19779 1 | 0 | 866.46 5,73 | 0,92860 7 | 0,1376 35 | -138,064 | 0 | 0,8984 76 | 1,8027 1 |
| 2 | 0,52 | - 0,10418 | 0 | 854.55 9,72 | 1,19563 | 0,1804 63 | -136,141 | 0 | 0,9729 21 | 1,7873 1 |
| 2 | 0,62 | - 0,00336 | 0 | 842.54 7,62 | 1,44079 | 0,2167 54 | -134,18 | 0 | 1,0426 5 | 1,7720 1 |



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| | | | | | | | | | | |
|---|--------------|-----------------|---|----------------|---------|--------------|----------|---|-------------|-------------|
| 2 | 0,623 225 | 3,85555 E-17 | 0 | 842.16 4,92 | 1,44838 | 0,2178 62 | -134,112 | 0 | 1,0448 1 | 1,7714 5 |
| 2 | 0,623 225 | 3,85555 E-17 | 0 | 870.09 0,89 | 1,31842 | 0,1126 51 | -138,864 | 0 | 2,3200 8 | 1,8105 4 |
| 2 | 0,72 | 0,19204 8 | 0 | 847.55 9,58 | 1,56988 | 0,2067 86 | -135,026 | 0 | 1,7796 6 | 1,7786 9 |
| 2 | 0,82 | 0,36072 2 | 0 | 831.76 4,39 | 1,78965 | 0,2749 17 | -131,808 | 0 | 1,6205 4 | 1,7507 2 |
| 2 | 0,92 | 0,51958 6 | 0 | 817.64 1,99 | 2,00866 | 0,3235 28 | -128,391 | 0 | 1,5645 5 | 1,7202 |
| 2 | 1,02 | 0,67553 3 | 0 | 803.41 2,11 | 2,23736 | 0,3576 14 | -124,582 | 0 | 1,5547 3 | 1,6867 2 |
| 2 | 1,12 | 0,83182 | 0 | 788.48 7,65 | 2,46967 | 0,3822 6 | -120,306 | 0 | 1,5711 9 | 1,6504 4 |
| 2 | 1,22 | 0,99059 2 | 0 | 772.45 3,81 | 2,70184 | 0,4004 52 | -115,498 | 0 | 1,6055 3 | 1,6116 3 |
| 2 | 1,32 | 1,15349 | 0 | 754.81 6,76 | 2,93091 | 0,4138 32 | -110,038 | 0 | 1,6542 8 | 1,5701 2 |
| 2 | 1,42 | 1,32197 | 0 | 734.68 8,41 | 3,15405 | 0,4228 57 | -103,611 | 0 | 1,7178 7 | 1,5244 9 |
| 2 | 1,52 | 1,49786 | 0 | 709.64 3,98 | 3,36735 | 0,4257 59 | -95,292 | 0 | 1,8045 7 | 1,4699 5 |
| 2 | 1,524 98 | 1,50686 | 0 | 708.15 8,87 | 3,3776 | 0,4256 33 | -94,7852 | 0 | 1,8099 4 | 1,4667 7 |
| 2 | 1,524 98 | 1,50686 | 0 | 708.15 8,87 | 3,3776 | 0,4256 33 | -94,7852 | 0 | 1,8099 4 | 1,4667 7 |
| 2 | 1,62 | 1,68432 | 0 | 676.58 0,90 | 3,56133 | 0,4218 55 | -84,0339 | 0 | 1,9224 1 | 1,4036 8 |
| 2 | 1,72 | 1,88189 | 0 | 642.96 3,23 | 3,74025 | 0,4238 55 | -73,1861 | 0 | 2,0286 7 | 1,3484 6 |
| 2 | 1,82 | 2,0894 | 0 | 609.67 8,11 | 3,9001 | 0,4311 13 | -62,9928 | 0 | 2,1211 1 | 1,3031 |
| 2 | 1,92 | 2,30554 | 0 | 577.33 0,59 | 4,04042 | 0,4428 85 | -53,5743 | 0 | 2,1996 9 | 1,2660 6 |
| 2 | 2,02 | 2,52892 | 0 | 546.38 1,23 | 4,16096 | 0,4585 73 | -45,0105 | 0 | 2,2651 4 | 1,2360 5 |
| 2 | 2,12 | 2,75824 | 0 | 517.14 | 4,26104 | 0,4777 | -37,3442 | 0 | 2,3188 | 1,2119 |



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|---|-------------|---------|---|--------------------|---------|--------------|----------|---|-------------|-------------|
| | | | | 9,48 | | 26 | | | 8 | 3 |
| 2 | 2,22 | 2,99236 | 0 | 489.82 4,48 | 4,3388 | 0,5001 26 | -30,5866 | 0 | 2,3626 6 | 1,1927 8 |
| 2 | 2,231 71 | 3,02005 | 0 | 486.75 4,68 | 4,3463 | 0,5029 63 | -29,8543 | 0 | 2,3672 2 | 1,1908 2 |
| 2 | 2,231 71 | 3,02005 | 0 | 486.75 4,68 | 4,3463 | 0,5029 63 | -29,8543 | 0 | 2,3672 2 | 1,1908 2 |
| 2 | 2,34 | 3,27846 | 0 | 459.73 2,03 | 4,39696 | 0,5314 75 | -23,6562 | 0 | 2,4045 6 | 1,1752 4 |
| 2 | 2,484 | 3,62758 | 0 | 425.16 3,98 | 4,44808 | 0,5749 61 | -16,5969 | 0 | 2,4435 7 | 1,1602 1 |
| 2 | 2,656 8 | 4,05294 | 0 | 387.07 4,96 | 4,50832 | 0,6308 05 | -9,90489 | 0 | 2,4777 8 | 1,1490 7 |
| 2 | 2,864 16 | 4,56983 | 0 | 348.39 5,51 | 4,57723 | 0,6979 98 | -4,13994 | 0 | 2,5058 1 | 1,1423 9 |
| 2 | 3,112 99 | 5,19619 | 0 | 311.22 2,04 | 4,65308 | 0,7756 45 | 0,436516 | 0 | 2,5276 7 | 1,1399 6 |
| 2 | 3,411 59 | 5,95352 | 0 | 276.75 2,00 | 4,73558 | 0,8645 46 | 4,36366 | 0 | 2,5440 7 | 1,1389 5 |
| 2 | 3,769 91 | 6,86738 | 0 | 244.56 5,56 | 4,82954 | 0,9667 88 | 7,58853 | 0 | 2,5561 3 | 1,1396 9 |
| 2 | 4,199 89 | 7,96853 | 0 | 213.62 1,73 | 4,94234 | 1,0894 2 | 10,311 | 0 | 2,5648 2 | 1,1418 1 |
| 2 | 4,715 87 | 9,2936 | 0 | 184.34 5,94 | 5,07816 | 1,2368 1 | 12,5951 | 0 | 2,5709 2 | 1,1448 9 |
| 2 | 5,335 04 | 10,8868 | 0 | 157.17 6,35 | 5,24145 | 1,4137 6 | 14,4941 | 0 | 2,5750 6 | 1,1485 6 |
| 2 | 6,078 05 | 12,8037 | 0 | 132.36 1,76 | 5,43778 | 1,6132 5 | 16,062 | 0 | 2,5991 6 | 1,1525 1 |
| 2 | 6,969 66 | 15,1607 | 0 | 109.35 0,01 | 5,6784 | 1,8168 9 | 17,3826 | 0 | 2,6893 8 | 1,1566 8 |
| 2 | 8,039 59 | 18,0943 | 0 | 88.248, 61 | 5,97673 | 2,0687 6 | 18,4863 | 0 | 2,7930 6 | 1,1609 1 |
| 2 | 9,323 51 | 21,7562 | 0 | 69.499, 88 | 6,34741 | 2,3865 6 | 19,9884 | 0 | 2,9106 1 | 1,1628 7 |
| 2 | 10,86 42 | 26,3441 | 0 | 53.391, 46 | 6,8093 | 2,7870 2 | 21,5983 | 0 | 3,0435 | 1,1635 4 |
| 2 | 12,71 | 32,1098 | 0 | 39.940, 7,38613 | 7,38613 | 3,2887 | 22,7596 | 0 | 3,1918 | 1,1648 |



| | 31 | | | 15 | | 4 | | | 3 | 1 |
|---|-------------|--------------|---|----------------|----------------|---------------|----------|---|-------------|-------------|
| 2 | 14,93 17 | 39,3767 | 0 | 29.119, 04 | 8,10794 | 3,9197 6 | 23,566 | 0 | 3,3568 7 | 1,1663 2 |
| 2 | 16,81 31 | 45,8169 | 0 | 22.776, 40 | 8,74324 | 4,4783 4 | 23,9798 | 0 | 3,4877 7 | 1,1674 3 |
| 2 | 17,59 4 | 48,5655 | 0 | 20.665, 69 | 9,01315 | 4,7185 9 | 24,1069 | 0 | 3,5404 8 | 1,1678 4 |
| 2 | 20,78 88 | 60,2058 | 0 | 14.303, 94 | 10,1495 | 5,7285 8 | 24,4574 | 0 | 3,7432 3 | 1,1692 |
| 2 | 24,62 26 | 74,9902 | 0 | 9.665,7 3 | 11,5781 | 7,0093 5 | 24,6776 | 0 | 3,9664 5 | 1,1703 3 |
| 2 | 26,68 17 | 83,2743 | 0 | 7.983,9 8 | 12,3723 | 7,7265 4 | 24,7493 | 0 | 4,0788 3 | 1,1707 7 |
| | | | | | | | | | | |
| 3 | 47,79 6 | - 13,6682 | 0 | 1,00 | 0,00177 245 | 0,1863 1 | 24,6396 | 0 | 2,5820 8 | 1,1739 6 |
| 3 | 47,89 6 | - 13,4374 | 0 | 340.81 4,10 | 3,85842 | 0,0223 853 | -73,8133 | 0 | 2,3047 7 | 1,5535 6 |
| 3 | 47,99 6 | - 13,2069 | 0 | 340.45 4,18 | 5,46591 | 0,0445 347 | -73,7305 | 0 | 2,3061 8 | 1,5531 5 |
| 3 | 48,09 6 | - 12,9762 | 0 | 339.62 5,37 | 6,70377 | 0,0666 389 | -73,6191 | 0 | 2,3076 1 | 1,5528 3 |
| 3 | 48,19 6 | - 12,7453 | 0 | 338.74 6,41 | 7,75082 | 0,0887 155 | -73,509 | 0 | 2,3089 5 | 1,5525 5 |
| 3 | 48,29 6 | - 12,5144 | 0 | 337.82 4,48 | 8,6836 | 0,1106 27 | -73,3959 | 0 | 2,3103 4 | 1,5522 7 |
| 3 | 48,39 6 | - 12,2833 | 0 | 336.87 5,21 | 9,52628 | 0,1325 38 | -73,2804 | 0 | 2,3117 6 | 1,552 |
| 3 | 48,49 6 | -12,052 | 0 | 335.93 3,12 | 10,3045 | 0,1543 7 | -73,1669 | 0 | 2,3131 2 | 1,5517 4 |
| 3 | 48,59 6 | - 11,8207 | 0 | 334.98 7,20 | 11,0332 | 0,1761 07 | -73,0534 | 0 | 2,3144 9 | 1,5514 8 |
| 3 | 48,69 6 | - 11,5891 | 0 | 334.03 2,03 | 11,7217 | 0,1977 37 | -72,939 | 0 | 2,3158 7 | 1,5512 2 |
| 3 | 48,79 6 | - 11,3575 | 0 | 333.07 2,07 | 12,3759 | 0,2192 92 | -72,8242 | 0 | 2,3172 5 | 1,5509 6 |
| 3 | 48,89 6 | - 11,1257 | 0 | 332.11 0,89 | 13,0004 | 0,2407 9 | -72,7094 | 0 | 2,3186 3 | 1,5507 |



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|---|---------|----------|---|------------|---------|----------|----------|---|---------|---------|
| 3 | 48,996 | -10,8938 | 0 | 331.149,39 | 13,5993 | 0,262228 | -72,5946 | 0 | 2,32 | 1,55044 |
| 3 | 49,096 | -10,6617 | 0 | 330.189,46 | 14,1755 | 0,283618 | -72,4801 | 0 | 2,32137 | 1,55018 |
| 3 | 49,196 | -10,4295 | 0 | 329.231,35 | 14,7322 | 0,304953 | -72,3659 | 0 | 2,32273 | 1,54993 |
| 3 | 49,296 | -10,1971 | 0 | 328.273,65 | 15,2713 | 0,326227 | -72,2518 | 0 | 2,32409 | 1,54967 |
| 3 | 49,396 | -9,96466 | 0 | 327.315,50 | 15,7956 | 0,347414 | -72,1376 | 0 | 2,32544 | 1,54942 |
| 3 | 49,496 | -9,73205 | 0 | 326.356,10 | 16,3055 | 0,368541 | -72,0234 | 0 | 2,32679 | 1,54917 |
| 3 | 49,596 | -9,4993 | 0 | 325.394,38 | 16,8032 | 0,389581 | -71,9088 | 0 | 2,32815 | 1,54891 |
| 3 | 49,696 | -9,26642 | 0 | 324.430,58 | 17,2893 | 0,410546 | -71,7941 | 0 | 2,3295 | 1,54866 |
| 3 | 49,796 | -9,0334 | 0 | 323.463,81 | 17,7655 | 0,431417 | -71,679 | 0 | 2,33086 | 1,54841 |
| 3 | 49,916 | -8,7536 | 0 | 322.300,56 | 18,3239 | 0,45637 | -71,5405 | 0 | 2,33249 | 1,54819 |
| 3 | 50,06 | -8,41759 | 0 | 320.896,65 | 18,9772 | 0,486166 | -71,3734 | 0 | 2,33445 | 1,54773 |
| 3 | 50,2328 | -8,01398 | 0 | 319.195,62 | 19,7361 | 0,521651 | -71,1818 | 0 | 2,33689 | 1,54737 |
| 3 | 50,4402 | -7,52902 | 0 | 317.146,64 | 20,6119 | 0,562928 | -71,0315 | 0 | 2,34028 | 1,54756 |
| 3 | 50,689 | -6,94623 | 0 | 315.180,72 | 21,6255 | 0,610373 | -71,0134 | 0 | 2,34394 | 1,54871 |
| 3 | 50,9876 | -6,24578 | 0 | 313.425,36 | 22,7943 | 0,665033 | -71,0035 | 0 | 2,34779 | 1,54979 |
| 3 | 51,3459 | -5,40379 | 0 | 311.825,45 | 24,138 | 0,728176 | -70,8737 | 0 | 2,35199 | 1,54984 |
| 3 | 51,7759 | -4,39146 | 0 | 310.263,67 | 25,6758 | 0,801304 | -70,5254 | 0 | 2,35679 | 1,54818 |
| 3 | 52,2919 | -3,17394 | 0 | 308.532,51 | 27,4338 | 0,886179 | -69,8287 | 0 | 2,36251 | 1,54397 |
| 3 | 52,9111 | -1,70894 | 0 | 306.302,98 | 29,5325 | 0,982537 | -68,5763 | 0 | 2,36957 | 1,53597 |



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|---|-------------|-----------------|---|----------------|---------|-------------|----------|---|-------------|-------------|
| 3 | 53,63 09 | 4,95615 E-15 | 0 | 303.01 2,26 | 32,0556 | 1,0872 1 | -66,4558 | 0 | 2,3785 4 | 1,5221 5 |
| 3 | 53,63 09 | 4,95615 E-15 | 0 | 303.85 5,31 | 31,9922 | 1,0852 2 | -66,5841 | 0 | 2,3842 8 | 1,5225 6 |
| 3 | 53,65 41 | 0,05521 89 | 0 | 303.72 8,70 | 32,0749 | 1,0885 4 | -66,5029 | 0 | 2,3845 | 1,5220 4 |
| 3 | 54,54 57 | 2,18691 | 0 | 297.50 0,25 | 35,3116 | 1,2160 6 | -62,549 | 0 | 2,3953 7 | 1,4972 1 |
| 3 | 55,61 56 | 4,75831 | 0 | 287.90 8,69 | 39,2646 | 1,3663 | -56,6974 | 0 | 2,4109 6 | 1,4623 9 |
| 3 | 56,89 95 | 7,86765 | 0 | 272.87 8,11 | 44,0312 | 1,5535 9 | -48,0611 | 0 | 2,4327 6 | 1,4148 7 |
| 3 | 58,44 02 | 11,6992 | 0 | 248.30 3,35 | 49,572 | 1,7562 | -35,0699 | 0 | 2,547 | 1,3509 9 |
| 3 | 59,54 44 | 14,5662 | 0 | 223.37 9,77 | 53,2271 | 1,9317 5 | -22,9467 | 0 | 2,6481 1 | 1,2982 2 |
| 3 | 59,54 44 | 14,5662 | 0 | 223.37 9,77 | 53,2271 | 1,9317 5 | -22,9467 | 0 | 2,6481 | 1,2982 2 |
| 3 | 60,28 91 | 16,5713 | 0 | 201.53 8,71 | 55,3431 | 2,0730 3 | -13,5245 | 0 | 2,7280 6 | 1,2614 1 |
| 3 | 62,50 77 | 22,8489 | 0 | 150.99 0,25 | 60,5709 | 2,5052 5 | 1,69353 | 0 | 2,9223 3 | 1,2123 9 |
| 3 | 65,17 | 30,8824 | 0 | 111.92 1,01 | 65,38 | 3,0378 6 | 9,66522 | 0 | 3,1067 9 | 1,1929 |
| 3 | 65,72 57 | 32,6183 | 0 | 105.75 6,49 | 66,2593 | 3,1502 9 | 10,699 | 0 | 3,1412 7 | 1,1908 2 |
| 3 | 65,72 57 | 32,6183 | 0 | 105.75 6,49 | 66,2593 | 3,1503 4 | 10,699 | 0 | 3,1412 2 | 1,1908 2 |
| 3 | 68,36 48 | 41,1175 | 0 | 82.282, 77 | 69,7253 | 3,7119 5 | 14,1788 | 0 | 3,2987 2 | 1,1848 4 |
| 3 | 72,19 86 | 54,1918 | 0 | 59.334, 50 | 73,0763 | 4,6456 3 | 16,981 | 0 | 3,5218 4 | 1,1815 8 |
| 3 | 76,79 91 | 71,0253 | 0 | 41.365, 06 | 75,1903 | 6,0357 7 | 18,8072 | 0 | 3,7983 5 | 1,1806 3 |
| 3 | 82,31 97 | 92,8626 | 0 | 28.551, 99 | 77,3279 | 7,9112 3 | 20,301 | 0 | 4,1059 | 1,1794 6 |
| 3 | 86,83 98 | 111,905 | 0 | 22.618, 35 | 79,1138 | 9,3478 5 | 21,6711 | 0 | 4,3074 7 | 1,1765 7 |



| | | | | | | | | | | |
|---|-------------|--------------|---|----------------|----------------|---------------|----------|---|-------------|-------------|
| 3 | 88,94 44 | 121,075 | 0 | 20.617, 33 | 79,9739 | 9,9722 3 | 22,102 | 0 | 4,3884 3 | 1,1757 3 |
| 3 | 96,89 41 | 157,084 | 0 | 15.123, 23 | 83,3176 | 12,324 2 | 23,1772 | 0 | 4,6636 3 | 1,1738 5 |
| 3 | 106,4 34 | 202,959 | 0 | 11.070, 39 | 87,508 | 15,143 8 | 23,8516 | 0 | 4,9478 4 | 1,1729 5 |
| 3 | 106,5 01 | 203,293 | 0 | 11.047, 97 | 87,5382 | 15,163 7 | 23,855 | 0 | 4,9497 1 | 1,1729 5 |
| 4 | 82,76 5 | - 16,0407 | 0 | 1,00 | 0,00177 245 | 0,1863 1 | 24,6396 | 0 | 2,5820 8 | 1,1739 6 |
| 4 | 82,86 5 | - 15,8023 | 0 | 267.35 6,90 | 4,2088 | 0,0208 791 | -66,1319 | 0 | 2,3819 3 | 1,5426 7 |
| 4 | 82,96 5 | - 15,5641 | 0 | 267.19 7,91 | 5,95493 | 0,0416 406 | -66,0867 | 0 | 2,3826 9 | 1,5424 3 |
| 4 | 83,06 5 | - 15,3258 | 0 | 266.66 6,98 | 7,30228 | 0,0623 359 | -66,0151 | 0 | 2,3835 1 | 1,5422 4 |
| 4 | 83,16 5 | - 15,0874 | 0 | 266.05 5,67 | 8,44432 | 0,0829 515 | -65,9389 | 0 | 2,3843 4 | 1,5420 6 |
| 4 | 83,26 5 | - 14,8489 | 0 | 265.42 5,95 | 9,45187 | 0,1035 68 | -65,8626 | 0 | 2,3851 6 | 1,5418 9 |
| 4 | 83,36 5 | - 14,6104 | 0 | 264.79 6,30 | 10,3652 | 0,1241 72 | -65,7874 | 0 | 2,3859 6 | 1,5417 3 |
| 4 | 83,46 5 | - 14,3717 | 0 | 264.16 3,75 | 11,2108 | 0,1446 88 | -65,7124 | 0 | 2,3867 5 | 1,5415 8 |
| 4 | 83,56 5 | -14,133 | 0 | 263.51 7,87 | 12,0046 | 0,1650 98 | -65,6358 | 0 | 2,3875 7 | 1,5414 2 |
| 4 | 83,66 5 | - 13,8942 | 0 | 262.85 7,54 | 12,7531 | 0,1854 54 | -65,5575 | 0 | 2,3884 6 | 1,5412 6 |
| 4 | 83,76 5 | - 13,6553 | 0 | 262.19 4,22 | 13,4607 | 0,2058 12 | -65,4791 | 0 | 2,3892 4 | 1,5411 6 |
| 4 | 83,86 5 | - 13,4164 | 0 | 261.53 2,32 | 14,1354 | 0,2261 39 | -65,4011 | 0 | 2,3900 6 | 1,5409 4 |
| 4 | 83,96 5 | - 13,1773 | 0 | 260.86 4,61 | 14,7842 | 0,2463 66 | -65,3225 | 0 | 2,3908 9 | 1,5407 8 |
| 4 | 84,06 5 | - 12,9382 | 0 | 260.19 7,00 | 15,4088 | 0,2665 49 | -65,244 | 0 | 2,3917 1 | 1,5406 2 |
| 4 | 84,16 | -12,699 | 0 | 259.52 | 16,0118 | 0,2866 | -65,1656 | 0 | 2,3925 | 1,5404 |

| | | | | | | | | | | |
|---|-------|---------|---|--------|---------|--------|----------|---|--------|--------|
| | 5 | | | 9,21 | | 91 | | | 4 | 7 |
| 4 | 84,26 | - | 0 | 258.86 | 16,5951 | 0,3068 | -65,0873 | 0 | 2,3933 | 1,5403 |
| | 5 | 12,4597 | | 2,28 | | 03 | | | 6 | 1 |
| 4 | 84,36 | - | 0 | 258.19 | 17,1605 | 0,3268 | -65,0094 | 0 | 2,3941 | 1,5401 |
| | 5 | 12,2203 | | 7,78 | | 98 | | | 7 | 6 |
| 4 | 84,46 | - | 0 | 257.53 | 17,7109 | 0,3469 | -64,9313 | 0 | 2,3949 | 1,54 |
| | 5 | 11,9808 | | 1,32 | | 28 | | | 8 | |
| 4 | 84,56 | - | 0 | 256.86 | 18,2461 | 0,3669 | -64,8537 | 0 | 2,3957 | 1,5398 |
| | 5 | 11,7413 | | 8,46 | | 54 | | | 9 | 5 |
| 4 | 84,66 | - | 0 | 256.20 | 18,7684 | 0,3869 | -64,7761 | 0 | 2,3966 | 1,5397 |
| | 5 | 11,5017 | | 5,64 | | 4 | | | | |
| 4 | 84,76 | -11,262 | 0 | 255.54 | 19,2787 | 0,4068 | -64,6986 | 0 | 2,3974 | 1,5395 |
| | 5 | | | 4,03 | | 94 | | | 1 | 4 |
| 4 | 84,88 | - | 0 | 254.75 | 19,8767 | 0,4307 | -64,6057 | 0 | 2,3983 | 1,5393 |
| | 5 | 10,9742 | | 1,09 | | 89 | | | 7 | 6 |
| 4 | 85,02 | - | 0 | 253.79 | 20,5751 | 0,4593 | -64,4942 | 0 | 2,3995 | 1,5391 |
| | 9 | 10,6288 | | 9,09 | | 92 | | | 3 | 4 |
| 4 | 85,20 | -10,214 | 0 | 252.66 | 21,3897 | 0,4935 | -64,363 | 0 | 2,4009 | 1,5388 |
| | 18 | | | 0,90 | | 45 | | | 1 | 9 |
| 4 | 85,40 | - | 0 | 251.36 | 22,3361 | 0,5341 | -64,2378 | 0 | 2,4025 | 1,5387 |
| | 92 | 9,71601 | | 1,69 | | 27 | | | 3 | 9 |
| 4 | 85,65 | - | 0 | 250.03 | 23,434 | 0,5816 | -64,1982 | 0 | 2,4043 | 1,5393 |
| | 8 | 9,11799 | | 3,90 | | 31 | | | 1 | 5 |
| 4 | 85,95 | - | 0 | 249.00 | 24,7033 | 0,6358 | -64,3864 | 0 | 2,4061 | 1,5414 |
| | 66 | 8,39983 | | 1,07 | | 71 | | | | |
| 4 | 86,31 | - | 0 | 248.42 | 26,1645 | 0,6973 | -64,7312 | 0 | 2,4078 | 1,5443 |
| | 49 | 7,53733 | | 4,29 | | 64 | | | 7 | 3 |
| 4 | 86,74 | - | 0 | 248.28 | 27,8385 | 0,7674 | -65,0318 | 0 | 2,4098 | 1,5466 |
| | 49 | 6,50143 | | 3,12 | | 27 | | | 1 | 7 |
| 4 | 87,26 | - | 0 | 248.26 | 29,7429 | 0,8488 | -65,0245 | 0 | 2,4123 | 1,5466 |
| | 09 | 5,25736 | | 0,09 | | 22 | | | 6 | 3 |
| 4 | 87,88 | -3,7628 | 0 | 248.12 | 31,9057 | 0,9436 | -64,5867 | 0 | 2,4157 | 1,5434 |
| | 01 | | | 9,42 | | 64 | | | 8 | 5 |
| 4 | 88,62 | - | 0 | 247.52 | 34,5042 | 1,0506 | -63,4979 | 0 | 2,4204 | 1,5357 |
| | 31 | 1,96619 | | 4,29 | | 6 | | | 5 | 7 |
| 4 | 89,43 | 2,44241 | 0 | 245.84 | 37,4469 | 1,1605 | -61,4809 | 0 | 2,4266 | 1,5221 |
| | 44 | E-12 | | 4,53 | | | | | 5 | 2 |
| 4 | 89,43 | 2,44241 | 0 | 246.57 | 37,3733 | 1,1588 | -61,5907 | 0 | 2,4311 | 1,5224 |



| | | | | | | | | | | |
|---|-------------|--------------|---|----------------|---------|-------------|----------|---|-------------|-------------|
| | 44 | E-12 | | 8,80 | | 7 | | | 4 | 5 |
| 4 | 89,51 47 | 0,19532 1 | 0 | 246.34 4,82 | 37,6701 | 1,1696 | -61,3477 | 0 | 2,4316 | 1,5208 4 |
| 4 | 90,58 46 | 2,8019 | 0 | 241.82 7,96 | 41,6889 | 1,3126 6 | -57,202 | 0 | 2,4398 8 | 1,4942 8 |
| 4 | 91,86 85 | 5,94235 | 0 | 233.94 8,91 | 46,5964 | 1,484 | -50,917 | 0 | 2,4524 4 | 1,4565 5 |
| 4 | 93,40 92 | 9,75707 | 0 | 220.37 7,46 | 52,4839 | 1,6752 9 | -41,4179 | 0 | 2,5182 4 | 1,4043 7 |
| 4 | 95,25 81 | 14,5314 | 0 | 196.63 3,88 | 59,2194 | 1,9240 8 | -26,997 | 0 | 2,6499 3 | 1,3344 3 |
| 4 | 96,08 83 | 16,76 | 0 | 181.75 0,27 | 62,0116 | 2,0589 6 | -18,901 | 0 | 2,7187 8 | 1,2991 9 |
| 4 | 96,08 83 | 16,76 | 0 | 181.75 0,27 | 62,0116 | 2,0588 8 | -18,901 | 0 | 2,7189 8 | 1,2991 9 |
| 4 | 97,47 67 | 20,6264 | 0 | 152.16 4,42 | 66,0314 | 2,3215 6 | -5,72855 | 0 | 2,8454 3 | 1,2479 5 |
| 4 | 100,1 39 | 28,4754 | 0 | 111.07 5,24 | 72,3583 | 2,8428 4 | 6,18333 | 0 | 3,0429 3 | 1,2101 1 |
| 4 | 103,3 34 | 38,5134 | 0 | 80.711, 57 | 78,5291 | 3,4752 9 | 12,4072 | 0 | 3,2350 3 | 1,1942 9 |
| 4 | 104,7 73 | 43,2228 | 0 | 71.087, 88 | 81,0314 | 3,7603 6 | 14,0312 | 0 | 3,3113 6 | 1,1908 2 |
| 4 | 104,7 73 | 43,2228 | 0 | 71.087, 88 | 81,0314 | 3,7603 3 | 14,0312 | 0 | 3,3113 9 | 1,1908 2 |
| 4 | 107,1 68 | 51,3 | 0 | 58.403, 77 | 84,6962 | 4,2537 2 | 15,9487 | 0 | 3,4330 9 | 1,1872 |
| 4 | 111,7 68 | 67,628 | 0 | 41.432, 17 | 89,8619 | 5,3348 5 | 18,1597 | 0 | 3,6658 4 | 1,1839 3 |
| 4 | 117,2 89 | 88,67 | 0 | 28.308, 06 | 93,2498 | 6,9851 7 | 19,5951 | 0 | 3,9617 2 | 1,1826 3 |
| 4 | 121,1 02 | 104,162 | 0 | 22.580, 45 | 94,7077 | 8,2403 4 | 20,7718 | 0 | 4,1545 2 | 1,1801 7 |
| 4 | 123,9 13 | 116,017 | 0 | 19.795, 99 | 95,8237 | 9,0580 3 | 21,5384 | 0 | 4,2689 5 | 1,1783 2 |
| 4 | 131,8 63 | 151,128 | 0 | 14.295, 00 | 99,0923 | 11,373 6 | 22,8794 | 0 | 4,5574 | 1,1753 6 |
| 4 | 139,9 | 189,234 | 0 | 10.845, | 102,586 | 13,747 | 23,6006 | 0 | 4,8123 | 1,1740 |

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|---|-------------|--------------|---|----------------|----------------|---------------|----------|---|-------------|-------------|
| | 92 | | | 26 | | 2 | | | 1 | 1 |
| 5 | 116,6 54 | -17,733 | 0 | 1,00 | 0,00177 245 | 0,1863 1 | 24,6396 | 0 | 2,5820 8 | 1,1739 6 |
| 5 | 116,7 54 | - 17,4918 | 0 | 236.54 2,96 | 4,43486 | 0,0203 487 | -62,953 | 0 | 2,4107 5 | 1,5387 3 |
| 5 | 116,8 54 | - 17,2507 | 0 | 236.40 2,26 | 6,27878 | 0,0405 608 | -62,9153 | 0 | 2,4113 9 | 1,5385 4 |
| 5 | 116,9 54 | - 17,0095 | 0 | 235.95 4,83 | 7,70035 | 0,0607 336 | -62,8555 | 0 | 2,4120 4 | 1,5383 9 |
| 5 | 117,0 54 | - 16,7683 | 0 | 235.44 9,14 | 8,90224 | 0,0808 805 | -62,793 | 0 | 2,4126 9 | 1,5382 5 |
| 5 | 117,1 54 | -16,527 | 0 | 234.92 2,97 | 9,96697 | 0,1009 67 | -62,7297 | 0 | 2,4133 3 | 1,5381 1 |
| 5 | 117,2 54 | - 16,2856 | 0 | 234.38 5,39 | 10,9324 | 0,1210 26 | -62,6657 | 0 | 2,4139 8 | 1,5379 8 |
| 5 | 117,3 54 | - 16,0442 | 0 | 233.84 4,36 | 11,8228 | 0,1410 56 | -62,6017 | 0 | 2,4146 2 | 1,5378 6 |
| 5 | 117,4 54 | - 15,8027 | 0 | 233.30 0,76 | 12,6552 | 0,1610 35 | -62,5378 | 0 | 2,4152 7 | 1,5377 3 |
| 5 | 117,5 54 | - 15,5611 | 0 | 232.75 4,97 | 13,4409 | 0,1809 59 | -62,4737 | 0 | 2,4159 1 | 1,5376 1 |
| 5 | 117,6 54 | - 15,3195 | 0 | 232.20 7,57 | 14,1868 | 0,2008 44 | -62,4095 | 0 | 2,4165 6 | 1,5374 8 |
| 5 | 117,7 54 | - 15,0778 | 0 | 231.65 8,12 | 14,8984 | 0,2206 98 | -62,3452 | 0 | 2,4172 | 1,5373 6 |
| 5 | 117,8 54 | - 14,8361 | 0 | 231.10 7,79 | 15,5805 | 0,2405 19 | -62,2808 | 0 | 2,4178 4 | 1,5372 4 |
| 5 | 117,9 54 | - 14,5942 | 0 | 230.55 7,13 | 16,2365 | 0,2603 09 | -62,2165 | 0 | 2,4184 9 | 1,5371 1 |
| 5 | 118,0 54 | - 14,3524 | 0 | 230.00 6,39 | 16,8701 | 0,2800 59 | -62,1522 | 0 | 2,4191 3 | 1,5369 9 |
| 5 | 118,1 54 | - 14,1104 | 0 | 229.45 4,99 | 17,4837 | 0,2997 66 | -62,0878 | 0 | 2,4197 7 | 1,5368 7 |
| 5 | 118,2 54 | - 13,8684 | 0 | 228.90 2,63 | 18,0796 | 0,3194 26 | -62,0233 | 0 | 2,4204 1 | 1,5367 4 |
| 5 | 118,3 54 | - 13,6263 | 0 | 228.34 9,61 | 18,6595 | 0,3390 4 | -61,9588 | 0 | 2,4210 5 | 1,5366 2 |



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|---|-------------|-----------------|---|----------------|---------|--------------|----------|---|-------------|-------------|
| 5 | 118,4 54 | - 13,3842 | 0 | 227.79 6,03 | 19,2247 | 0,3586 12 | -61,8942 | 0 | 2,4217 | 1,5365 |
| 5 | 118,5 54 | -13,142 | 0 | 227.24 1,91 | 19,7759 | 0,3781 55 | -61,8296 | 0 | 2,4223 4 | 1,5363 8 |
| 5 | 118,6 54 | - 12,8997 | 0 | 226.68 6,83 | 20,315 | 0,3976 51 | -61,7649 | 0 | 2,4229 8 | 1,5362 5 |
| 5 | 118,7 74 | - 12,6089 | 0 | 226.01 9,70 | 20,9461 | 0,4210 1 | -61,6871 | 0 | 2,4237 5 | 1,5361 1 |
| 5 | 118,9 18 | - 12,2598 | 0 | 225.21 7,95 | 21,683 | 0,4489 84 | -61,5936 | 0 | 2,4246 7 | 1,5359 3 |
| 5 | 119,0 91 | - 11,8408 | 0 | 224.25 4,72 | 22,5407 | 0,4824 68 | -61,4813 | 0 | 2,4257 8 | 1,5357 2 |
| 5 | 119,2 98 | - 11,3376 | 0 | 223.09 7,35 | 23,5363 | 0,5225 14 | -61,3465 | 0 | 2,4271 1 | 1,5354 6 |
| 5 | 119,5 47 | - 10,7335 | 0 | 221.89 2,81 | 24,6891 | 0,5696 53 | -61,2823 | 0 | 2,4285 7 | 1,5357 5 |
| 5 | 119,8 46 | - 10,0081 | 0 | 220.92 7,97 | 26,0212 | 0,6236 92 | -61,4569 | 0 | 2,4300 2 | 1,5376 3 |
| 5 | 120,2 04 | - 9,13711 | 0 | 220.36 6,21 | 27,5554 | 0,6848 55 | -61,8879 | 0 | 2,4314 4 | 1,5411 4 |
| 5 | 120,6 34 | - 8,09128 | 0 | 220.24 3,56 | 29,3154 | 0,7542 23 | -62,3793 | 0 | 2,4329 4 | 1,5448 3 |
| 5 | 121,1 5 | - 6,83544 | 0 | 220.45 5,91 | 31,3248 | 0,8334 9 | -62,7295 | 0 | 2,4347 3 | 1,5472 8 |
| 5 | 121,7 69 | - 5,32719 | 0 | 220.79 1,09 | 33,6069 | 0,9250 16 | -62,739 | 0 | 2,4371 1 | 1,5471 3 |
| 5 | 122,5 12 | - 3,51511 | 0 | 220.85 7,34 | 36,2638 | 1,0300 8 | -62,1586 | 0 | 2,4404 6 | 1,5428 2 |
| 5 | 123,4 04 | - 1,33694 | 0 | 220.12 5,09 | 39,5139 | 1,1487 1 | -60,6225 | 0 | 2,4453 4 | 1,5320 7 |
| 5 | 123,9 5 | 1,62457 E-14 | 0 | 219.15 5,10 | 41,555 | 1,2186 7 | -59,2464 | 0 | 2,4488 1 | 1,5227 7 |
| 5 | 123,9 5 | 1,62457 E-14 | 0 | 219.80 8,38 | 41,4763 | 1,2172 3 | -59,3434 | 0 | 2,4526 2 | 1,5230 6 |
| 5 | 124,4 74 | 1,28522 | 0 | 218.33 7,27 | 43,4738 | 1,2845 1 | -57,6475 | 0 | 2,4554 7 | 1,5119 3 |
| 5 | 125,7 58 | 4,44368 | 0 | 213.12 6,50 | 48,454 | 1,4484 6 | -52,5121 | 0 | 2,4643 4 | 1,4797 3 |



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|---|-------------|--------------|---|----------------|----------------|---------------|----------|---|-------------|-------------|
| 5 | 127,2 98 | 8,2605 | 0 | 203.80 4,19 | 54,4976 | 1,6347 6 | -44,6876 | 0 | 2,5073 | 1,4342 8 |
| 5 | 129,1 47 | 12,9997 | 0 | 187.30 4,75 | 61,5827 | 1,8567 5 | -32,8437 | 0 | 2,6216 4 | 1,3723 9 |
| 5 | 131,1 32 | 18,3395 | 0 | 161.09 7,94 | 68,635 | 2,1534 6 | -16,8793 | 0 | 2,7648 3 | 1,2995 5 |
| 5 | 131,1 32 | 18,3395 | 0 | 161.09 7,94 | 68,635 | 2,1534 7 | -16,8793 | 0 | 2,7648 1 | 1,2995 5 |
| 5 | 131,3 66 | 18,9901 | 0 | 156.66 0,29 | 69,353 | 2,1952 1 | -14,4351 | 0 | 2,7853 3 | 1,2892 8 |
| 5 | 134,0 28 | 26,6973 | 0 | 113.92 4,79 | 76,8032 | 2,7084 5 | 2,47483 | 0 | 2,9953 5 | 1,2266 9 |
| 5 | 137,2 23 | 36,5978 | 0 | 81.880, 85 | 83,9459 | 3,3374 9 | 10,6592 | 0 | 3,1956 1 | 1,2023 |
| 5 | 141,0 57 | 49,2404 | 0 | 58.850, 81 | 91,2835 | 4,0914 4 | 15,0162 | 0 | 3,3941 4 | 1,1916 5 |
| 5 | 141,5 75 | 51,0068 | 0 | 56.535, 47 | 92,2183 | 4,1929 3 | 15,401 | 0 | 3,4185 1 | 1,1908 2 |
| 5 | 141,5 75 | 51,0068 | 0 | 56.535, 47 | 92,2183 | 4,1928 7 | 15,401 | 0 | 3,4185 5 | 1,1908 2 |
| 5 | 145,6 57 | 65,3469 | 0 | 42.006, 31 | 98,5565 | 5,0462 2 | 17,594 | 0 | 3,6074 6 | 1,1865 5 |
| 5 | 151,1 78 | 85,9781 | 0 | 29.155, 29 | 104,441 | 6,4324 2 | 19,2371 | 0 | 3,8689 3 | 1,1841 1 |
| 5 | 155,3 44 | 102,526 | 0 | 22.664, 41 | 106,92 | 7,6938 8 | 20,133 | 0 | 4,0732 6 | 1,1827 4 |
| 5 | 157,8 03 | 112,681 | 0 | 20.108, 48 | 107,877 | 8,3984 6 | 20,9509 | 0 | 4,1772 6 | 1,1805 7 |
| 5 | 165,7 52 | 147,109 | 0 | 14.360, 46 | 111,088 | 10,685 | 22,5774 | 0 | 4,4764 2 | 1,1765 6 |
| 5 | 174,2 34 | 186,266 | 0 | 10.693, 96 | 114,682 | 13,136 9 | 23,4527 | 0 | 4,7499 9 | 1,1746 8 |
| 6 | 149,5 69 | -19,036 | 0 | 1,00 | 0,00177 245 | 0,1863 1 | 24,6396 | 0 | 2,5820 8 | 1,1739 6 |
| 6 | 149,6 69 | - 18,7929 | 0 | 216.04 4,06 | 4,60051 | 0,0200 133 | -60,8511 | 0 | 2,4289 1 | 1,5362 9 |
| 6 | 149,7 | -18,55 | 0 | 215.92 | 6,51424 | 0,0398 | -60,8196 | 0 | 2,4294 | 1,5361 |



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|---|-------------|--------------|---|----------------|---------|---------------|----------|---|-------------|-------------|
| | 69 | | | 3,80 | | 907 | | | 7 | 4 |
| 6 | 149,8 69 | -18,307 | 0 | 215.53 3,71 | 7,98935 | 0,0597 335 | -60,7679 | 0 | 2,4300 2 | 1,5360 1 |
| 6 | 149,9 69 | -18,064 | 0 | 215.08 6,23 | 9,23599 | 0,0795 593 | -60,7128 | 0 | 2,4305 7 | 1,5358 9 |
| 6 | 150,0 69 | - 17,8209 | 0 | 214.62 6,28 | 10,3392 | 0,0993 391 | -60,6577 | 0 | 2,4311 | 1,5357 8 |
| 6 | 150,1 69 | - 17,5778 | 0 | 214.15 7,18 | 11,3412 | 0,1190 74 | -60,6021 | 0 | 2,4316 5 | 1,5356 7 |
| 6 | 150,2 69 | - 17,3346 | 0 | 213.68 2,33 | 12,265 | 0,1387 87 | -60,5462 | 0 | 2,4322 | 1,5355 6 |
| 6 | 150,3 69 | - 17,0913 | 0 | 213.20 6,29 | 13,1276 | 0,1584 7 | -60,4904 | 0 | 2,4327 4 | 1,5354 5 |
| 6 | 150,4 69 | -16,848 | 0 | 212.72 8,85 | 13,9412 | 0,1781 08 | -60,4345 | 0 | 2,4332 8 | 1,5353 5 |
| 6 | 150,5 69 | - 16,6047 | 0 | 212.25 0,08 | 14,7142 | 0,1976 98 | -60,3786 | 0 | 2,4338 2 | 1,5352 4 |
| 6 | 150,6 69 | - 16,3613 | 0 | 211.77 0,52 | 15,4522 | 0,2172 53 | -60,3227 | 0 | 2,4343 6 | 1,5351 4 |
| 6 | 150,7 69 | - 16,1178 | 0 | 211.28 9,56 | 16,1597 | 0,2367 75 | -60,2667 | 0 | 2,4349 | 1,5350 3 |
| 6 | 150,8 69 | - 15,8743 | 0 | 210.80 7,75 | 16,8403 | 0,2562 7 | -60,2106 | 0 | 2,4354 5 | 1,5349 3 |
| 6 | 150,9 69 | - 15,6307 | 0 | 210.32 5,61 | 17,497 | 0,2757 37 | -60,1544 | 0 | 2,4359 9 | 1,5348 3 |
| 6 | 151,0 69 | - 15,3871 | 0 | 209.84 3,37 | 18,1327 | 0,2951 72 | -60,0983 | 0 | 2,4365 3 | 1,5347 2 |
| 6 | 151,1 69 | - 15,1434 | 0 | 209.36 0,82 | 18,7498 | 0,3145 7 | -60,0422 | 0 | 2,4370 7 | 1,5346 2 |
| 6 | 151,2 69 | - 14,8997 | 0 | 208.87 7,72 | 19,3501 | 0,3339 27 | -59,9861 | 0 | 2,4376 1 | 1,5345 1 |
| 6 | 151,3 69 | - 14,6559 | 0 | 208.39 3,84 | 19,9352 | 0,3532 46 | -59,9298 | 0 | 2,4381 5 | 1,5344 1 |
| 6 | 151,4 69 | - 14,4121 | 0 | 207.90 9,61 | 20,5066 | 0,3725 21 | -59,8736 | 0 | 2,4386 9 | 1,5343 1 |
| 6 | 151,5 69 | - 14,1682 | 0 | 207.42 4,96 | 21,0651 | 0,3917 61 | -59,8173 | 0 | 2,4392 3 | 1,5342 |
| 6 | 151,6 | - | 0 | 206.84 | 21,7192 | 0,4148 | -59,7497 | 0 | 2,4398 | 1,5340 |



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|---|---------|--------------|---|------------|---------|----------|----------|---|---------|---------|
| | 89 | 13,8754 | | 2,90 | | 13 | | | 8 | 8 |
| 6 | 151,833 | -13,524 | 0 | 206.143,17 | 22,4837 | 0,442403 | -59,6684 | 0 | 2,44065 | 1,53393 |
| 6 | 152,006 | -13,1022 | 0 | 205.302,04 | 23,3733 | 0,475444 | -59,5707 | 0 | 2,44159 | 1,53375 |
| 6 | 152,213 | -12,5958 | 0 | 204.290,99 | 24,4061 | 0,514971 | -59,4533 | 0 | 2,44271 | 1,53353 |
| 6 | 152,462 | -11,9878 | 0 | 203.188,65 | 25,6011 | 0,561773 | -59,375 | 0 | 2,44398 | 1,53366 |
| 6 | 152,761 | -11,2579 | 0 | 202.256,18 | 26,9818 | 0,615754 | -59,5021 | 0 | 2,44526 | 1,53516 |
| 6 | 153,119 | -10,3815 | 0 | 201.761,41 | 28,5739 | 0,676369 | -60,0026 | 0 | 2,44643 | 1,53909 |
| 6 | 153,549 | -9,32926 | 0 | 201.759,55 | 30,4027 | 0,744326 | -60,7266 | 0 | 2,44761 | 1,54436 |
| 6 | 154,065 | -8,06595 | 0 | 202.111,00 | 32,492 | 0,821962 | -61,2963 | 0 | 2,44902 | 1,54831 |
| 6 | 154,684 | -6,54898 | 0 | 202.622,06 | 34,8618 | 0,911632 | -61,5394 | 0 | 2,45091 | 1,54977 |
| 6 | 155,427 | -4,72693 | 0 | 203.036,68 | 37,5731 | 1,01525 | -61,2782 | 0 | 2,45354 | 1,54759 |
| 6 | 156,319 | -2,53761 | 0 | 202.909,22 | 40,8446 | 1,13251 | -60,1864 | 0 | 2,45735 | 1,53975 |
| 6 | 157,35 | 4,31382 E-12 | 0 | 201.614,92 | 44,7528 | 1,26126 | -57,8832 | 0 | 2,46279 | 1,52396 |
| 6 | 157,35 | 4,31382 E-12 | 0 | 202.214,56 | 44,6701 | 1,25994 | -57,9718 | 0 | 2,46618 | 1,52422 |
| 6 | 157,389 | 0,0948026 | 0 | 202.140,86 | 44,8182 | 1,26468 | -57,8676 | 0 | 2,46633 | 1,52352 |
| 6 | 158,672 | 3,26597 | 0 | 198.402,01 | 49,8426 | 1,42431 | -53,4558 | 0 | 2,47308 | 1,49507 |
| 6 | 160,213 | 7,09035 | 0 | 191.367,62 | 55,9719 | 1,60866 | -46,6421 | 0 | 2,50184 | 1,45406 |
| 6 | 162,062 | 11,8125 | 0 | 178.608,40 | 63,2498 | 1,81568 | -36,2359 | 0 | 2,60674 | 1,39714 |
| 6 | 164,281 | 17,7504 | 0 | 156.201,30 | 71,5214 | 2,11945 | -20,8509 | 0 | 2,74949 | 1,32301 |
| 6 | 164,9 | 19,5598 | 0 | 147.26 | 73,7761 | 2,2251 | -15,4434 | 0 | 2,7979 | 1,2993 |



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|---|-------------|--------------|---|----------------|----------------|---------------|-----------|---|-------------|-------------|
| | 33 | | | 4,46 | | 4 | | | 1 | 5 |
| 6 | 164,9 33 | 19,5598 | 0 | 147.26 4,46 | 73,7761 | 2,2251 4 | -15,4434 | 0 | 2,7979 1 | 1,2993 5 |
| 6 | 166,9 43 | 25,3488 | 0 | 116.49 5,70 | 79,7717 | 2,6031 2 | -0,979239 | 0 | 2,9561 8 | 1,2423 6 |
| 6 | 170,1 38 | 35,1372 | 0 | 83.000, 91 | 87,6703 | 3,2310 7 | 9,05738 | 0 | 3,1641 5 | 1,2096 |
| 6 | 173,9 71 | 47,6701 | 0 | 59.166, 61 | 95,6659 | 3,9844 | 14,2152 | 0 | 3,3677 4 | 1,1954 9 |
| 6 | 176,7 12 | 57,0751 | 0 | 48.074, 08 | 100,893 | 4,5182 3 | 16,1879 | 0 | 3,4938 9 | 1,1908 2 |
| 6 | 176,7 12 | 57,0751 | 0 | 48.074, 08 | 100,893 | 4,5184 3 | 16,1879 | 0 | 3,4937 3 | 1,1908 2 |
| 6 | 178,5 72 | 63,6487 | 0 | 42.218, 88 | 104,159 | 4,8895 7 | 17,1325 | 0 | 3,5746 7 | 1,1887 9 |
| 6 | 184,0 93 | 84,0499 | 0 | 29.541, 15 | 111,796 | 6,1393 6 | 18,9491 | 0 | 3,8173 7 | 1,1854 2 |
| 6 | 188,5 76 | 101,618 | 0 | 22.707, 63 | 115,924 | 7,3373 7 | 19,8023 | 0 | 4,0183 2 | 1,1841 8 |
| 6 | 190,7 17 | 110,324 | 0 | 20.440, 32 | 117,182 | 7,9067 8 | 20,4122 | 0 | 4,1055 1 | 1,1826 1 |
| 6 | 198,6 67 | 144,215 | 0 | 14.456, 59 | 120,393 | 10,165 9 | 22,3102 | 0 | 4,4128 7 | 1,1776 |
| 6 | 207,5 21 | 184,614 | 0 | 10.562, 51 | 124,102 | 12,705 1 | 23,3373 | 0 | 4,7046 4 | 1,1752 1 |
| 7 | 181,7 85 | - 20,0872 | 0 | 1,00 | 0,00177 245 | 0,1863 1 | 24,6396 | 0 | 2,5820 8 | 1,1739 6 |
| 7 | 181,8 85 | - 19,8429 | 0 | 201.13 5,35 | 4,73722 | 0,0197 567 | -59,3263 | 0 | 2,4417 | 1,5345 9 |
| 7 | 181,9 85 | - 19,5987 | 0 | 201.01 2,65 | 6,709 | 0,0393 921 | -59,2986 | 0 | 2,4421 8 | 1,5344 7 |
| 7 | 182,0 85 | - 19,3544 | 0 | 200.63 0,54 | 8,22734 | 0,0589 877 | -59,249 | 0 | 2,4426 9 | 1,5343 5 |
| 7 | 182,1 85 | - 19,1101 | 0 | 200.22 0,15 | 9,5094 | 0,0785 879 | -59,1991 | 0 | 2,4431 6 | 1,5342 4 |
| 7 | 182,2 85 | - 18,8658 | 0 | 199.81 2,30 | 10,6415 | 0,0981 907 | -59,1509 | 0 | 2,4436 2 | 1,5341 5 |



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|---|-------------|--------------|---|----------------|---------|--------------|----------|---|-------------|-------------|
| 7 | 182,3 85 | - 18,6214 | 0 | 199.39 8,77 | 11,6729 | 0,1177 09 | -59,1023 | 0 | 2,4440 8 | 1,5340 6 |
| 7 | 182,4 85 | -18,377 | 0 | 198.97 2,76 | 12,625 | 0,1371 89 | -59,0522 | 0 | 2,4445 6 | 1,5339 6 |
| 7 | 182,5 85 | - 18,1325 | 0 | 198.54 1,41 | 13,514 | 0,1566 35 | -59,0017 | 0 | 2,4450 4 | 1,5338 7 |
| 7 | 182,6 85 | -17,888 | 0 | 198.10 8,90 | 14,3512 | 0,1760 55 | -58,9512 | 0 | 2,4455 2 | 1,5337 8 |
| 7 | 182,7 85 | - 17,6434 | 0 | 197.67 4,04 | 15,1463 | 0,1954 25 | -58,9006 | 0 | 2,446 6 | 1,5336 8 |
| 7 | 182,8 85 | - 17,3988 | 0 | 197.23 5,79 | 15,9063 | 0,2147 4 | -58,8496 | 0 | 2,4464 8 | 1,5335 9 |
| 7 | 182,9 85 | - 17,1541 | 0 | 196.79 5,98 | 16,635 | 0,2340 2 | -58,7985 | 0 | 2,4469 6 | 1,5335 6 |
| 7 | 183,0 85 | - 16,9094 | 0 | 196.35 6,57 | 17,3356 | 0,2532 85 | -58,7474 | 0 | 2,4474 4 | 1,5334 4 |
| 7 | 183,1 85 | - 16,6646 | 0 | 195.91 8,08 | 18,0113 | 0,2725 37 | -58,6966 | 0 | 2,4479 2 | 1,5333 1 |
| 7 | 183,2 85 | - 16,4198 | 0 | 195.48 0,50 | 18,6649 | 0,2917 69 | -58,6458 | 0 | 2,4484 2 | 1,5332 2 |
| 7 | 183,3 85 | - 16,1749 | 0 | 195.04 3,67 | 19,2989 | 0,3109 82 | -58,5952 | 0 | 2,4488 7 | 1,5331 3 |
| 7 | 183,4 85 | -15,93 | 0 | 194.60 8,13 | 19,9151 | 0,3301 78 | -58,5448 | 0 | 2,4493 5 | 1,5330 4 |
| 7 | 183,5 85 | -15,685 | 0 | 194.17 3,57 | 20,5153 | 0,3493 5 | -58,4944 | 0 | 2,4498 2 | 1,5329 5 |
| 7 | 183,6 85 | -15,44 | 0 | 193.73 9,33 | 21,1007 | 0,3684 97 | -58,4442 | 0 | 2,4502 9 | 1,5328 5 |
| 7 | 183,7 85 | -15,195 | 0 | 193.30 5,22 | 21,6734 | 0,3875 98 | -58,3939 | 0 | 2,4507 6 | 1,5327 6 |
| 7 | 183,9 05 | - 14,9009 | 0 | 192.78 3,77 | 22,3448 | 0,4104 68 | -58,3336 | 0 | 2,4513 2 | 1,5326 6 |
| 7 | 184,0 49 | - 14,5478 | 0 | 192.15 6,47 | 23,1311 | 0,4378 06 | -58,2609 | 0 | 2,452 2 | 1,5325 3 |
| 7 | 184,2 22 | - 14,1241 | 0 | 191.40 0,45 | 24,0488 | 0,4704 85 | -58,1734 | 0 | 2,4528 2 | 1,5323 7 |
| 7 | 184,4 3 | - 13,6153 | 0 | 190.48 7,50 | 25,1168 | 0,5095 24 | -58,0675 | 0 | 2,4538 2 | 1,5321 8 |



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|---|---------|-------------|---|------------|---------|----------|----------|---|---------|---------|
| 7 | 184,678 | -13,0046 | 0 | 189.421,85 | 26,3524 | 0,556068 | -57,9615 | 0 | 2,45497 | 1,53208 |
| 7 | 184,977 | -12,2714 | 0 | 188.525,36 | 27,7734 | 0,609934 | -58,0651 | 0 | 2,45614 | 1,53338 |
| 7 | 185,335 | -11,3911 | 0 | 188.071,76 | 29,4056 | 0,670501 | -58,5612 | 0 | 2,45716 | 1,53722 |
| 7 | 185,765 | -10,3344 | 0 | 188.089,72 | 31,284 | 0,738163 | -59,335 | 0 | 2,45818 | 1,54279 |
| 7 | 186,281 | -9,06571 | 0 | 188.477,73 | 33,4319 | 0,815054 | -60,0435 | 0 | 2,45937 | 1,54777 |
| 7 | 186,9 | -7,54245 | 0 | 189.098,27 | 35,8749 | 0,90329 | -60,496 | 0 | 2,46092 | 1,55062 |
| 7 | 187,643 | -5,71319 | 0 | 189.748,84 | 38,644 | 1,00543 | -60,5163 | 0 | 2,46306 | 1,55036 |
| 7 | 188,535 | -3,51579 | 0 | 190.094,16 | 41,8857 | 1,12233 | -59,8409 | 0 | 2,46619 | 1,54521 |
| 7 | 189,605 | -0,874839 | 0 | 189.482,87 | 45,9434 | 1,25308 | -57,976 | 0 | 2,47069 | 1,53215 |
| 7 | 189,959 | 5,24362E-12 | 0 | 188.977,51 | 47,319 | 1,29538 | -57,0984 | 0 | 2,47246 | 1,52621 |
| 7 | 189,959 | 5,24362E-12 | 0 | 189.538,26 | 47,233 | 1,29415 | -57,1807 | 0 | 2,47557 | 1,52645 |
| 7 | 190,889 | 2,30438 | 0 | 187.373,00 | 50,9125 | 1,40665 | -54,2519 | 0 | 2,47966 | 1,50726 |
| 7 | 192,43 | 6,13394 | 0 | 181.850,00 | 57,1095 | 1,58963 | -48,1596 | 0 | 2,49699 | 1,46957 |
| 7 | 194,278 | 10,8429 | 0 | 171.448,80 | 64,5236 | 1,78536 | -38,7046 | 0 | 2,59643 | 1,41598 |
| 7 | 196,497 | 16,7483 | 0 | 153.116,26 | 73,07 | 2,06909 | -24,7598 | 0 | 2,72874 | 1,34579 |
| 7 | 197,871 | 20,5594 | 0 | 137.297,72 | 77,9783 | 2,28135 | -14,4531 | 0 | 2,82302 | 1,29943 |
| 7 | 197,871 | 20,5594 | 0 | 137.297,72 | 77,9783 | 2,28135 | -14,4531 | 0 | 2,82302 | 1,29943 |
| 7 | 199,159 | 24,2655 | 0 | 118.780,84 | 81,9487 | 2,51547 | -4,62106 | 0 | 2,92215 | 1,25922 |
| 7 | 202,3 | 33,9553 | 0 | 84.148, | 90,5025 | 3,1412 | 7,50511 | 0 | 3,1368 | 1,2166 |

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|---|-------------|--------------|---|----------------|----------------|---------------|----------|---|-------------|-------------|
| | 54 | | | 27 | | 1 | | | 8 | 2 |
| 7 | 206,1 88 | 46,3939 | 0 | 59.555, 88 | 99,0384 | 3,8951 2 | 13,4714 | 0 | 3,3452 9 | 1,1989 8 |
| 7 | 210,7 37 | 62,0928 | 0 | 42.454, 12 | 108,077 | 4,7797 7 | 16,7057 | 0 | 3,5511 8 | 1,1908 2 |
| 7 | 210,7 37 | 62,0928 | 0 | 42.454, 12 | 108,077 | 4,7797 7 | 16,7057 | 0 | 3,5511 8 | 1,1908 2 |
| 7 | 210,7 88 | 62,2765 | 0 | 42.306, 11 | 108,175 | 4,7897 6 | 16,7311 | 0 | 3,5533 3 | 1,1907 6 |
| 7 | 216,3 09 | 82,5508 | 0 | 29.712, 69 | 117,129 | 5,9600 5 | 18,7032 | 0 | 3,7849 2 | 1,1865 9 |
| 7 | 220,9 01 | 100,384 | 0 | 22.718, 02 | 122,495 | 7,1089 8 | 19,6516 | 0 | 3,9818 9 | 1,1849 5 |
| 7 | 222,9 34 | 108,575 | 0 | 20.555, 44 | 124,22 | 7,6070 1 | 19,9459 | 0 | 4,0601 9 | 1,1844 5 |
| 7 | 230,8 83 | 142,089 | 0 | 14.468, 64 | 128,062 | 9,8005 6 | 22,0751 | 0 | 4,3667 4 | 1,1785 4 |
| 7 | 239,7 96 | 182,373 | 0 | 10.492, 72 | 131,767 | 12,341 1 | 23,2178 | 0 | 4,6655 4 | 1,1757 2 |
| 8 | 213,5 45 | - 20,9855 | 0 | 1,00 | 0,00177 245 | 0,1863 1 | 24,6396 | 0 | 2,5820 8 | 1,1739 6 |
| 8 | 213,6 45 | - 20,7402 | 0 | 189.48 3,64 | 4,84576 | 0,0195 884 | -58,1411 | 0 | 2,4513 7 | 1,5333 3 |
| 8 | 213,7 45 | - 20,4951 | 0 | 189.37 8,33 | 6,8611 | 0,0390 601 | -58,1166 | 0 | 2,4518 1 | 1,5332 2 |
| 8 | 213,8 45 | - 20,2499 | 0 | 189.05 0,52 | 8,41293 | 0,0585 111 | -58,0738 | 0 | 2,4522 4 | 1,5331 1 |
| 8 | 213,9 45 | - 20,0046 | 0 | 188.67 8,10 | 9,72652 | 0,0779 3 | -58,0283 | 0 | 2,4526 7 | 1,5330 2 |
| 8 | 214,0 45 | - 19,7593 | 0 | 188.29 2,82 | 10,8872 | 0,0973 262 | -57,9824 | 0 | 2,4531 | 1,5329 3 |
| 8 | 214,1 45 | -19,514 | 0 | 187.90 1,21 | 11,9416 | 0,1166 75 | -57,9362 | 0 | 2,4535 4 | 1,5328 4 |
| 8 | 214,2 45 | - 19,2686 | 0 | 187.50 5,48 | 12,9148 | 0,1359 95 | -57,8899 | 0 | 2,4539 7 | 1,5327 6 |
| 8 | 214,3 45 | - 19,0232 | 0 | 187.10 7,36 | 13,823 | 0,1552 93 | -57,8434 | 0 | 2,4544 | 1,5326 7 |



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|---|-------------|--------------|---|----------------|---------|--------------|----------|---|-------------|-------------|
| 8 | 214,4 45 | - 18,7777 | 0 | 186.70 8,86 | 14,6787 | 0,1745 65 | -57,797 | 0 | 2,4548 3 | 1,5325 9 |
| 8 | 214,5 45 | - 18,5322 | 0 | 186.30 9,55 | 15,4913 | 0,1937 98 | -57,7506 | 0 | 2,4552 6 | 1,5325 |
| 8 | 214,6 45 | - 18,2867 | 0 | 185.90 9,21 | 16,2676 | 0,2129 89 | -57,7041 | 0 | 2,4556 9 | 1,5324 2 |
| 8 | 214,7 45 | - 18,0411 | 0 | 185.50 8,50 | 17,0121 | 0,2321 48 | -57,6576 | 0 | 2,4561 2 | 1,5323 4 |
| 8 | 214,8 45 | - 17,7955 | 0 | 185.10 7,00 | 17,7288 | 0,2512 73 | -57,6111 | 0 | 2,4565 5 | 1,5322 5 |
| 8 | 214,9 45 | - 17,5498 | 0 | 184.70 4,77 | 18,4201 | 0,2703 79 | -57,5645 | 0 | 2,4569 8 | 1,5321 7 |
| 8 | 215,0 45 | - 17,3041 | 0 | 184.30 2,26 | 19,0893 | 0,2894 58 | -57,5178 | 0 | 2,4574 1 | 1,5320 9 |
| 8 | 215,1 45 | - 17,0583 | 0 | 183.89 9,71 | 19,7382 | 0,3085 15 | -57,4712 | 0 | 2,4578 4 | 1,532 |
| 8 | 215,2 45 | - 16,8125 | 0 | 183.49 7,22 | 20,3692 | 0,3275 42 | -57,4247 | 0 | 2,4582 7 | 1,5319 2 |
| 8 | 215,3 45 | - 16,5667 | 0 | 183.09 4,65 | 20,984 | 0,3465 38 | -57,3781 | 0 | 2,4587 | 1,5318 4 |
| 8 | 215,4 45 | - 16,3208 | 0 | 182.69 1,80 | 21,5841 | 0,3655 | -57,3315 | 0 | 2,4591 3 | 1,5317 5 |
| 8 | 215,5 45 | - 16,0748 | 0 | 182.28 8,51 | 22,1707 | 0,3844 27 | -57,2848 | 0 | 2,4595 6 | 1,5316 7 |
| 8 | 215,6 65 | - 15,7797 | 0 | 181.80 4,06 | 22,8584 | 0,4070 92 | -57,2288 | 0 | 2,4600 7 | 1,5315 7 |
| 8 | 215,8 09 | - 15,4254 | 0 | 181.22 2,36 | 23,6622 | 0,4342 26 | -57,1616 | 0 | 2,4606 9 | 1,5314 5 |
| 8 | 215,9 82 | - 15,0001 | 0 | 180.52 3,67 | 24,5982 | 0,4667 17 | -57,0808 | 0 | 2,4614 3 | 1,5313 1 |
| 8 | 216,1 89 | - 14,4896 | 0 | 179.68 3,64 | 25,6852 | 0,5055 87 | -56,9837 | 0 | 2,4623 1 | 1,5311 4 |
| 8 | 216,4 38 | - 13,8768 | 0 | 178.73 8,46 | 26,9424 | 0,5518 05 | -56,9071 | 0 | 2,4633 4 | 1,5311 8 |
| 8 | 216,7 37 | - 13,1411 | 0 | 177.89 4,03 | 28,3936 | 0,6055 04 | -56,9977 | 0 | 2,4644 | 1,5323 4 |
| 8 | 217,0 95 | - 12,2579 | 0 | 177.42 2,00 | 30,0663 | 0,6660 73 | -57,4501 | 0 | 2,4653 5 | 1,5358 6 |



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|---|-------------|-----------------|---|----------------|---------|--------------|----------|---|-------------|-------------|
| 8 | 217,5 25 | - 11,1975 | 0 | 177.43 9,50 | 31,9896 | 0,7333 91 | -58,2955 | 0 | 2,4662 3 | 1,5419 2 |
| 8 | 218,0 41 | - 9,92473 | 0 | 177.87 2,53 | 34,1907 | 0,8092 65 | -59,1802 | 0 | 2,4672 4 | 1,5480 5 |
| 8 | 218,6 6 | - 8,39669 | 0 | 178.56 3,62 | 36,6973 | 0,8961 68 | -59,7963 | 0 | 2,4685 9 | 1,5521 |
| 8 | 219,4 03 | - 6,56183 | 0 | 179.31 4,65 | 39,5354 | 0,9967 27 | -59,9796 | 0 | 2,4704 6 | 1,5529 7 |
| 8 | 220,2 95 | - 4,35796 | 0 | 179.86 8,35 | 42,7968 | 1,1127 9 | -59,5458 | 0 | 2,4730 7 | 1,5494 6 |
| 8 | 221,3 65 | - 1,70981 | 0 | 179.68 4,27 | 46,8511 | 1,2423 7 | -58,0402 | 0 | 2,4769 7 | 1,5386 9 |
| 8 | 222,0 55 | 7,11407 E-15 | 0 | 178.94 1,08 | 49,5503 | 1,3230 7 | -56,4834 | 0 | 2,48 | 1,5280 5 |
| 8 | 222,0 55 | 7,11407 E-15 | 0 | 179.47 1,73 | 49,4615 | 1,3219 | -56,561 | 0 | 2,4829 | 1,5282 7 |
| 8 | 222,6 49 | 1,47589 | 0 | 178.31 1,86 | 51,8322 | 1,3922 | -54,8108 | 0 | 2,4851 7 | 1,5166 8 |
| 8 | 224,1 9 | 5,31107 | 0 | 173.75 7,89 | 58,0772 | 1,5748 4 | -49,2132 | 0 | 2,4941 8 | 1,4813 5 |
| 8 | 226,0 38 | 10,0114 | 0 | 165.01 0,75 | 65,5912 | 1,7622 | -40,4976 | 0 | 2,5892 4 | 1,4306 6 |
| 8 | 228,2 57 | 15,8921 | 0 | 149.50 6,01 | 74,3443 | 2,0302 4 | -27,634 | 0 | 2,7138 | 1,3636 9 |
| 8 | 230,2 43 | 21,4066 | 0 | 129.65 3,19 | 81,6277 | 2,3251 9 | -13,8661 | 0 | 2,8419 7 | 1,3003 7 |
| 8 | 230,2 43 | 21,4066 | 0 | 129.65 3,19 | 81,6277 | 2,3251 7 | -13,8661 | 0 | 2,8419 9 | 1,3003 7 |
| 8 | 230,9 19 | 23,3499 | 0 | 120.41 5,05 | 83,7558 | 2,4457 1 | -8,4017 | 0 | 2,8933 8 | 1,2772 9 |
| 8 | 234,1 14 | 32,9538 | 0 | 85.259, 27 | 92,8957 | 3,0625 6 | 5,90708 | 0 | 3,1122 5 | 1,2238 8 |
| 8 | 237,9 48 | 45,3071 | 0 | 59.962, 62 | 101,931 | 3,8169 9 | 12,7347 | 0 | 3,3252 5 | 1,2024 3 |
| 8 | 242,5 48 | 61,1058 | 0 | 42.361, 38 | 111,503 | 4,7128 3 | 16,3489 | 0 | 3,5366 2 | 1,1926 5 |
| 8 | 244,1 05 | 66,6598 | 0 | 38.184, 64 | 114,581 | 5,0124 2 | 17,097 | 0 | 3,6003 6 | 1,1908 2 |



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|---|---------|----------|---|------------|------------|-----------|----------|---|---------|---------|
| 8 | 244,105 | 66,6598 | 0 | 38.184,64 | 114,581 | 5,01241 | 17,097 | 0 | 3,60036 | 1,19082 |
| 8 | 248,069 | 81,2471 | 0 | 29.848,87 | 121,576 | 5,82036 | 18,4703 | 0 | 3,75916 | 1,18771 |
| 8 | 252,789 | 99,4459 | 0 | 22.725,80 | 128,058 | 6,93034 | 19,5108 | 0 | 3,95288 | 1,18567 |
| 8 | 254,694 | 107,057 | 0 | 20.675,52 | 130,093 | 7,3724 | 19,7953 | 0 | 4,02377 | 1,18514 |
| 8 | 262,643 | 140,235 | 0 | 14.506,80 | 135,113 | 9,4654 | 21,8403 | 0 | 4,32333 | 1,17946 |
| 8 | 271,667 | 180,673 | 0 | 10.421,72 | 138,831 | 12,0232 | 23,1074 | 0 | 4,63072 | 1,17619 |
| 9 | 244,453 | -21,7443 | 0 | 1,00 | 0,00177245 | 0,18631 | 24,6396 | 0 | 2,58208 | 1,17396 |
| 9 | 244,553 | -21,4981 | 0 | 177.828,36 | 4,93772 | 0,0194116 | -56,9556 | 0 | 2,46085 | 1,53208 |
| 9 | 244,653 | -21,252 | 0 | 177.715,37 | 6,98903 | 0,0387293 | -56,933 | 0 | 2,46125 | 1,53199 |
| 9 | 244,753 | -21,0059 | 0 | 177.412,15 | 8,57127 | 0,0580061 | -56,8939 | 0 | 2,46164 | 1,53194 |
| 9 | 244,853 | -20,7597 | 0 | 177.053,59 | 9,91158 | 0,0772396 | -56,8502 | 0 | 2,46206 | 1,53181 |
| 9 | 244,953 | -20,5135 | 0 | 176.684,17 | 11,0941 | 0,0964696 | -56,8063 | 0 | 2,46246 | 1,53173 |
| 9 | 245,053 | -20,2672 | 0 | 176.314,52 | 12,1676 | 0,115665 | -56,7629 | 0 | 2,46285 | 1,53165 |
| 9 | 245,153 | -20,0209 | 0 | 175.942,05 | 13,1597 | 0,134813 | -56,7195 | 0 | 2,46325 | 1,53157 |
| 9 | 245,253 | -19,7746 | 0 | 175.566,07 | 14,0862 | 0,153935 | -56,6757 | 0 | 2,46365 | 1,53149 |
| 9 | 245,353 | -19,5282 | 0 | 175.188,75 | 14,9585 | 0,17304 | -56,6319 | 0 | 2,46405 | 1,53141 |
| 9 | 245,453 | -19,2818 | 0 | 174.812,02 | 15,7858 | 0,192123 | -56,5882 | 0 | 2,46445 | 1,53134 |
| 9 | 245,553 | -19,0353 | 0 | 174.436,29 | 16,5754 | 0,211177 | -56,5447 | 0 | 2,46484 | 1,53126 |
| 9 | 245,6 | - | 0 | 174.06 | 17,3328 | 0,2301 | -56,5013 | 0 | 2,4652 | 1,5311 |

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|---|-------|---------|---|--------|---------|--------|----------|---|--------|--------|
| | 53 | 18,7888 | | 0,85 | | 93 | | | 3 | 8 |
| 9 | 245,7 | - | 0 | 173.68 | 18,062 | 0,2491 | -56,4579 | 0 | 2,4656 | 1,5311 |
| | 53 | 18,5422 | | 4,98 | | 75 | | | 2 | 1 |
| 9 | 245,8 | - | 0 | 173.30 | 18,7666 | 0,2681 | -56,4145 | 0 | 2,4660 | 1,5310 |
| | 53 | 18,2957 | | 9,05 | | 18 | | | 2 | 3 |
| 9 | 245,9 | -18,049 | 0 | 172.93 | 19,4486 | 0,2870 | -56,371 | 0 | 2,4664 | 1,5309 |
| | 53 | | | 2,79 | | 37 | | | 1 | 5 |
| 9 | 246,0 | - | 0 | 172.55 | 20,1105 | 0,3059 | -56,3275 | 0 | 2,4668 | 1,5308 |
| | 53 | 17,8024 | | 6,04 | | 25 | | | | 8 |
| 9 | 246,1 | - | 0 | 172.17 | 20,7535 | 0,3247 | -56,2839 | 0 | 2,4672 | 1,5308 |
| | 53 | 17,5557 | | 8,90 | | 96 | | | | |
| 9 | 246,2 | - | 0 | 171.80 | 21,3799 | 0,3436 | -56,2404 | 0 | 2,4675 | 1,5307 |
| | 53 | 17,3089 | | 1,65 | | 39 | | | 9 | 3 |
| 9 | 246,3 | - | 0 | 171.42 | 21,9907 | 0,3624 | -56,1968 | 0 | 2,4679 | 1,5306 |
| | 53 | 17,0622 | | 4,44 | | 63 | | | 8 | 5 |
| 9 | 246,4 | - | 0 | 171.04 | 22,5875 | 0,3812 | -56,1533 | 0 | 2,4683 | 1,5305 |
| | 53 | 16,8153 | | 7,25 | | 58 | | | 8 | 7 |
| 9 | 246,5 | - | 0 | 170.59 | 23,2867 | 0,4037 | -56,1011 | 0 | 2,4688 | 1,5304 |
| | 73 | 16,5191 | | 4,76 | | 76 | | | 5 | 8 |
| 9 | 246,7 | - | 0 | 170.05 | 24,1038 | 0,4307 | -56,0384 | 0 | 2,4694 | 1,5303 |
| | 17 | 16,1636 | | 1,47 | | 38 | | | 1 | 7 |
| 9 | 246,8 | - | 0 | 169.39 | 25,0558 | 0,4630 | -55,9631 | 0 | 2,4700 | 1,5302 |
| | 9 | 15,7368 | | 8,79 | | 08 | | | 9 | 4 |
| 9 | 247,0 | - | 0 | 168.61 | 26,1619 | 0,5016 | -55,8727 | 0 | 2,4709 | 1,5300 |
| | 97 | 15,2245 | | 4,84 | | 07 | | | | 8 |
| 9 | 247,3 | - | 0 | 167.68 | 27,4424 | 0,5477 | -55,7704 | 0 | 2,4718 | 1,5299 |
| | 46 | 14,6095 | | 2,80 | | 29 | | | 6 | 3 |
| 9 | 247,6 | - | 0 | 166.84 | 28,9214 | 0,6012 | -55,837 | 0 | 2,4728 | 1,5309 |
| | 44 | 13,8713 | | 9,01 | | 97 | | | 6 | 2 |
| 9 | 248,0 | - | 0 | 166.35 | 30,6242 | 0,6618 | -56,253 | 0 | 2,4737 | 1,5341 |
| | 03 | 12,9851 | | 3,19 | | 98 | | | 6 | 7 |
| 9 | 248,4 | - | 0 | 166.33 | 32,582 | 0,7291 | -57,106 | 0 | 2,4745 | 1,5402 |
| | 33 | 11,9212 | | 0,93 | | 34 | | | 8 | 6 |
| 9 | 248,9 | - | 0 | 166.74 | 34,8236 | 0,8043 | -58,1063 | 0 | 2,4754 | 1,5472 |
| | 49 | 10,6441 | | 6,38 | | 55 | | | 6 | |
| 9 | 249,5 | - | 0 | 167.44 | 37,3776 | 0,8901 | -58,8706 | 0 | 2,4766 | 1,5523 |
| | 68 | 9,11101 | | 0,74 | | 99 | | | 4 | |
| 9 | 250,3 | - | 0 | 168.22 | 40,2721 | 0,9893 | -59,2097 | 0 | 2,4782 | 1,5542 |



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|---|-------------|-----------------|---|----------------|---------|-------------|----------|---|-------------|-------------|
| | 11 | 7,27026 | | 9,87 | | 13 | | 9 | 8 | |
| 9 | 251,2 02 | - 5,05958 | 0 | 168.86 9,82 | 43,5801 | 1,1039 7 | -58,9466 | 0 | 2,4806 1 | 1,5519 6 |
| 9 | 252,2 72 | -2,4037 | 0 | 168.89 9,02 | 47,6438 | 1,2325 7 | -57,6809 | 0 | 2,4840 4 | 1,5428 |
| 9 | 253,2 39 | 2,54562 E-14 | 0 | 167.98 4,93 | 51,4424 | 1,3445 2 | -55,6055 | 0 | 2,4878 8 | 1,5285 9 |
| 9 | 253,2 39 | 2,54562 E-14 | 0 | 168.49 5,04 | 51,3492 | 1,3434 | -55,6799 | 0 | 2,4906 1 | 1,5288 |
| 9 | 253,5 56 | 0,78980 5 | 0 | 167.97 0,10 | 52,6211 | 1,3802 3 | -54,8081 | 0 | 2,4916 4 | 1,5229 9 |
| 9 | 255,0 97 | 4,63544 | 0 | 162.83 4,73 | 58,8925 | 1,5597 4 | -49,3432 | 0 | 2,5001 5 | 1,4887 4 |
| 9 | 256,9 46 | 9,33865 | 0 | 152.68 6,48 | 66,4504 | 1,7416 | -40,7834 | 0 | 2,5897 9 | 1,4395 3 |
| 9 | 259,1 64 | 15,2182 | 0 | 136.44 3,44 | 75,2917 | 1,9977 8 | -28,2261 | 0 | 2,7113 6 | 1,3741 8 |
| 9 | 261,5 88 | 21,9685 | 0 | 113.70 5,75 | 84,2634 | 2,3501 6 | -12,2088 | 0 | 2,8617 8 | 1,3000 |
| 9 | 261,5 88 | 21,9685 | 0 | 113.70 5,75 | 84,2634 | 2,3501 2 | -12,2088 | 0 | 2,8617 4 | 1,3000 8 |
| 9 | 261,8 27 | 22,6536 | 0 | 110.83 6,19 | 85,0266 | 2,3916 4 | -10,2825 | 0 | 2,879 | 1,2917 |
| 9 | 265,0 22 | 32,2066 | 0 | 78.490, 67 | 94,6042 | 2,9991 4 | 5,169 | 0 | 3,0953 7 | 1,2307 4 |
| 9 | 268,8 55 | 44,4992 | 0 | 54.872, 20 | 104,108 | 3,7531 9 | 12,4538 | 0 | 3,3100 1 | 1,2062 1 |
| 9 | 273,4 56 | 60,2304 | 0 | 38.568, 25 | 114,174 | 4,6460 6 | 16,2329 | 0 | 3,5226 3 | 1,1949 9 |
| 9 | 276,9 85 | 72,9131 | 0 | 30.635, 73 | 121,423 | 5,3202 6 | 17,7846 | 0 | 3,6633 | 1,1908 2 |
| 9 | 276,9 85 | 72,9131 | 0 | 30.635, 73 | 121,423 | 5,3202 6 | 17,7846 | 0 | 3,6633 | 1,1908 2 |
| 9 | 278,9 77 | 80,2845 | 0 | 27.198, 06 | 125,258 | 5,7090 4 | 18,4059 | 0 | 3,7385 6 | 1,1892 6 |
| 9 | 282,1 01 | 92,1528 | 0 | 22.714, 76 | 130,559 | 6,3689 5 | 19,1566 | 0 | 3,8581 7 | 1,1874 8 |
| 9 | 285,6 | 105,909 | 0 | 18.875, | 135,487 | 7,1605 | 19,7595 | 0 | 3,9903 | 1,1861 |



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|----|-------------|--------------|---|----------------|----------------|---------------|----------|---|-------------|-------------|
| | 01 | | | 61 | | | | | 3 | 5 |
| 9 | 293,5 51 | 138,759 | 0 | 13.227, 70 | 142,566 | 9,1066 7 | 21,756 | 0 | 4,2757 1 | 1,1803 6 |
| 9 | 300,0 79 | 167,431 | 0 | 10.296, 09 | 145,364 | 10,928 1 | 22,8076 | 0 | 4,5055 1 | 1,1774 4 |
| 10 | 244,9 38 | - 21,7559 | 0 | 1,00 | 0,00177 245 | 0,1863 1 | 24,6396 | 0 | 2,5820 8 | 1,1739 6 |
| 10 | 245,0 38 | - 21,5097 | 0 | 177.64 4,54 | 4,93917 | 0,0194 089 | -56,9369 | 0 | 2,4609 9 | 1,5320 7 |
| 10 | 245,1 38 | - 21,2635 | 0 | 177.53 1,70 | 6,99109 | 0,0387 239 | -56,9144 | 0 | 2,4614 | 1,5319 8 |
| 10 | 245,2 38 | - 21,0174 | 0 | 177.22 8,83 | 8,57379 | 0,0579 981 | -56,8754 | 0 | 2,4617 9 | 1,5318 8 |
| 10 | 245,3 38 | - 20,7712 | 0 | 176.87 0,69 | 9,91449 | 0,0772 29 | -56,8317 | 0 | 2,4622 | 1,5317 9 |
| 10 | 245,4 38 | - 20,5249 | 0 | 176.50 1,72 | 11,0974 | 0,0964 564 | -56,7878 | 0 | 2,4626 1 | 1,5317 1 |
| 10 | 245,5 38 | - 20,2787 | 0 | 176.13 2,52 | 12,1711 | 0,1156 5 | -56,7445 | 0 | 2,463 | 1,5316 3 |
| 10 | 245,6 38 | - 20,0323 | 0 | 175.76 0,50 | 13,1636 | 0,1347 95 | -56,7012 | 0 | 2,4633 9 | 1,5315 5 |
| 10 | 245,7 38 | -19,786 | 0 | 175.38 4,98 | 14,0903 | 0,1539 14 | -56,6574 | 0 | 2,4637 9 | 1,5314 7 |
| 10 | 245,8 38 | - 19,5396 | 0 | 175.00 8,12 | 14,9628 | 0,1730 17 | -56,6136 | 0 | 2,4641 9 | 1,5314 |
| 10 | 245,9 38 | - 19,2931 | 0 | 174.63 1,85 | 15,7904 | 0,1920 98 | -56,57 | 0 | 2,4645 9 | 1,5313 2 |
| 10 | 246,0 38 | - 19,0467 | 0 | 174.25 6,58 | 16,5802 | 0,2111 49 | -56,5266 | 0 | 2,4649 8 | 1,5312 4 |
| 10 | 246,1 38 | - 18,8002 | 0 | 173.88 1,60 | 17,3379 | 0,2301 63 | -56,4833 | 0 | 2,4653 7 | 1,5311 7 |
| 10 | 246,2 38 | - 18,5536 | 0 | 173.50 6,19 | 18,0673 | 0,2491 42 | -56,4399 | 0 | 2,4657 6 | 1,5310 9 |
| 10 | 246,3 38 | -18,307 | 0 | 173.13 0,73 | 18,7721 | 0,2680 83 | -56,3965 | 0 | 2,4661 6 | 1,5310 1 |
| 10 | 246,4 38 | - 18,0604 | 0 | 172.75 4,93 | 19,4543 | 0,287 | -56,3531 | 0 | 2,4665 5 | 1,5309 4 |

| | | | | | | | | | | |
|----|---------|-------------|---|------------|---------|----------|----------|---|---------|---------|
| 10 | 246,538 | -17,8137 | 0 | 172.378,63 | 20,1164 | 0,305885 | -56,3097 | 0 | 2,46694 | 1,53086 |
| 10 | 246,638 | -17,567 | 0 | 172.001,96 | 20,7596 | 0,324754 | -56,2661 | 0 | 2,46734 | 1,53078 |
| 10 | 246,738 | -17,3202 | 0 | 171.625,17 | 21,3861 | 0,343595 | -56,2226 | 0 | 2,46773 | 1,53071 |
| 10 | 246,838 | -17,0734 | 0 | 171.248,43 | 21,997 | 0,362416 | -56,1791 | 0 | 2,46812 | 1,53063 |
| 10 | 246,938 | -16,8266 | 0 | 170.871,71 | 22,594 | 0,381209 | -56,1357 | 0 | 2,46851 | 1,53056 |
| 10 | 247,058 | -16,5303 | 0 | 170.419,78 | 23,2935 | 0,403724 | -56,0835 | 0 | 2,46898 | 1,53047 |
| 10 | 247,202 | -16,1748 | 0 | 169.877,16 | 24,1108 | 0,430684 | -56,0209 | 0 | 2,46954 | 1,53036 |
| 10 | 247,375 | -15,748 | 0 | 169.225,29 | 25,063 | 0,462951 | -55,9457 | 0 | 2,47022 | 1,53023 |
| 10 | 247,582 | -15,2357 | 0 | 168.442,32 | 26,1694 | 0,501544 | -55,8554 | 0 | 2,47103 | 1,53007 |
| 10 | 247,831 | -14,6207 | 0 | 167.511,77 | 27,4502 | 0,54766 | -55,7534 | 0 | 2,47199 | 1,52992 |
| 10 | 248,13 | -13,8824 | 0 | 166.679,27 | 28,9297 | 0,601221 | -55,8203 | 0 | 2,47298 | 1,5309 |
| 10 | 248,488 | -12,9962 | 0 | 166.183,73 | 30,633 | 0,66182 | -56,2361 | 0 | 2,47389 | 1,53416 |
| 10 | 248,918 | -11,9322 | 0 | 166.161,24 | 32,5913 | 0,72905 | -57,09 | 0 | 2,4747 | 1,54025 |
| 10 | 249,434 | -10,6551 | 0 | 166.576,35 | 34,8336 | 0,804262 | -58,0915 | 0 | 2,47559 | 1,54719 |
| 10 | 250,053 | -9,12187 | 0 | 167.270,71 | 37,3883 | 0,890093 | -58,8576 | 0 | 2,47676 | 1,55231 |
| 10 | 250,796 | -7,28103 | 0 | 168.060,38 | 40,2836 | 0,989187 | -59,1987 | 0 | 2,47841 | 1,55431 |
| 10 | 251,688 | -5,07024 | 0 | 168.701,80 | 43,5922 | 1,10383 | -58,9382 | 0 | 2,48073 | 1,55201 |
| 10 | 252,758 | -2,41425 | 0 | 168.734,69 | 47,6556 | 1,23242 | -57,6766 | 0 | 2,48415 | 1,54287 |
| 10 | 253,729 | 2,07026E-14 | 0 | 167.786,06 | 51,4713 | 1,34474 | -55,5909 | 0 | 2,48806 | 1,52866 |



| | | | | | | | | | | |
|----|-------------|-----------------|---|----------------|---------|-------------|----------|---|-------------|-------------|
| 10 | 253,7 29 | 2,07026 E-14 | 0 | 168.29 5,93 | 51,378 | 1,3436 3 | -55,6652 | 0 | 2,4907 9 | 1,5288 2 |
| 10 | 254,0 42 | 0,77938 9 | 0 | 167.72 1,09 | 52,6323 | 1,3796 4 | -54,8118 | 0 | 2,4919 1 | 1,5231 7 |
| 10 | 255,5 83 | 4,62605 | 0 | 162.13 0,92 | 58,8948 | 1,5563 6 | -49,3915 | 0 | 2,5011 4 | 1,4894 8 |
| 10 | 257,4 31 | 9,32885 | 0 | 151.74 8,43 | 66,4505 | 1,7389 | -40,7545 | 0 | 2,5898 2 | 1,4398 9 |
| 10 | 259,6 5 | 15,2084 | 0 | 135.42 5,48 | 75,285 | 1,9958 3 | -28,1345 | 0 | 2,7114 6 | 1,3742 2 |
| 10 | 262,0 77 | 21,9685 | 0 | 112.64 4,28 | 84,258 | 2,3498 2 | -12,0056 | 0 | 2,8623 8 | 1,2995 8 |
| 10 | 262,0 77 | 21,9685 | 0 | 112.64 4,28 | 84,258 | 2,3498 2 | -12,0056 | 0 | 2,8623 9 | 1,2995 8 |
| 10 | 262,3 12 | 22,6449 | 0 | 109.83 8,84 | 85,0108 | 2,3908 7 | -10,1151 | 0 | 2,8794 1 | 1,2913 6 |
| 10 | 265,5 07 | 32,1987 | 0 | 77.819, 33 | 94,5828 | 2,9988 1 | 5,24889 | 0 | 3,0955 5 | 1,2307 1 |
| 10 | 269,3 41 | 44,4916 | 0 | 54.429, 02 | 104,088 | 3,7527 2 | 12,4953 | 0 | 3,3100 3 | 1,2062 5 |
| 10 | 273,9 41 | 60,2225 | 0 | 38.263, 40 | 114,162 | 4,6454 6 | 16,2571 | 0 | 3,5224 3 | 1,1950 4 |
| 10 | 277,5 24 | 73,103 | 0 | 30.279, 25 | 121,529 | 5,3295 3 | 17,8208 | 0 | 3,6651 7 | 1,1908 2 |
| 10 | 277,5 24 | 73,103 | 0 | 30.279, 25 | 121,529 | 5,3295 3 | 17,8208 | 0 | 3,6651 7 | 1,1908 2 |
| 10 | 279,4 62 | 80,2756 | 0 | 26.985, 25 | 125,268 | 5,7071 8 | 18,4206 | 0 | 3,7382 3 | 1,1893 |
| 10 | 282,4 15 | 91,4805 | 0 | 22.650, 29 | 130,322 | 6,3275 8 | 19,1325 | 0 | 3,8509 5 | 1,1876 |
| 10 | 286,0 87 | 105,897 | 0 | 18.727, 90 | 135,545 | 7,1537 | 19,7679 | 0 | 3,9892 8 | 1,1861 9 |
| 10 | 294,0 36 | 138,738 | 0 | 13.094, 88 | 142,668 | 9,0969 2 | 21,769 | 0 | 4,2743 7 | 1,1803 6 |
| 10 | 300,2 99 | 166,21 | 0 | 10.124, 42 | 145,352 | 10,843 7 | 22,7846 | 0 | 4,4954 9 | 1,1775 3 |
| 11 | 244,9 | - | 0 | 1,00 | 0,00177 | 0,1863 | 24,6396 | 0 | 2,5820 | 1,1739 |

| | | | | | | | | | | |
|----|-------|---------|---|--------|---------|--------|----------|---|--------|--------|
| | 39 | 21,7559 | | | 245 | 1 | | | 8 | 6 |
| 11 | 245,0 | - | 0 | 177.46 | 4,93917 | 0,0194 | -56,9369 | 0 | 2,4609 | 1,5320 |
| | 39 | 21,5097 | | 8,18 | | 089 | | | 9 | 7 |
| 11 | 245,1 | - | 0 | 177.35 | 6,99109 | 0,0387 | -56,9144 | 0 | 2,4614 | 1,5319 |
| | 39 | 21,2635 | | 5,45 | | 239 | | | | 8 |
| 11 | 245,2 | - | 0 | 177.05 | 8,57379 | 0,0579 | -56,8754 | 0 | 2,4617 | 1,5318 |
| | 39 | 21,0174 | | 2,88 | | 981 | | | 9 | 8 |
| 11 | 245,3 | - | 0 | 176.69 | 9,91449 | 0,0772 | -56,8317 | 0 | 2,4622 | 1,5317 |
| | 39 | 20,7712 | | 5,10 | | 29 | | | | 9 |
| 11 | 245,4 | - | 0 | 176.32 | 11,0974 | 0,0964 | -56,7878 | 0 | 2,4626 | 1,5317 |
| | 39 | 20,5249 | | 6,49 | | 564 | | | 1 | 1 |
| 11 | 245,5 | - | 0 | 175.95 | 12,1711 | 0,1156 | -56,7445 | 0 | 2,463 | 1,5316 |
| | 39 | 20,2787 | | 7,66 | | 5 | | | | 3 |
| 11 | 245,6 | - | 0 | 175.58 | 13,1636 | 0,1347 | -56,7012 | 0 | 2,4633 | 1,5315 |
| | 39 | 20,0323 | | 6,01 | | 95 | | | 9 | 5 |
| 11 | 245,7 | -19,786 | 0 | 175.21 | 14,0903 | 0,1539 | -56,6574 | 0 | 2,4637 | 1,5314 |
| | 39 | | | 0,86 | | 14 | | | 9 | 7 |
| 11 | 245,8 | - | 0 | 174.83 | 14,9628 | 0,1730 | -56,6136 | 0 | 2,4641 | 1,5314 |
| | 39 | 19,5396 | | 4,37 | | 17 | | | 9 | |
| 11 | 245,9 | - | 0 | 174.45 | 15,7904 | 0,1920 | -56,57 | 0 | 2,4645 | 1,5313 |
| | 39 | 19,2931 | | 8,48 | | 98 | | | 9 | 2 |
| 11 | 246,0 | - | 0 | 174.08 | 16,5802 | 0,2111 | -56,5266 | 0 | 2,4649 | 1,5312 |
| | 39 | 19,0467 | | 3,58 | | 49 | | | 8 | 4 |
| 11 | 246,1 | - | 0 | 173.70 | 17,3379 | 0,2301 | -56,4833 | 0 | 2,4653 | 1,5311 |
| | 39 | 18,8002 | | 8,98 | | 63 | | | 7 | 7 |
| 11 | 246,2 | - | 0 | 173.33 | 18,0673 | 0,2491 | -56,4399 | 0 | 2,4657 | 1,5310 |
| | 39 | 18,5536 | | 3,94 | | 42 | | | 6 | 9 |
| 11 | 246,3 | -18,307 | 0 | 172.95 | 18,7721 | 0,2680 | -56,3965 | 0 | 2,4661 | 1,5310 |
| | 39 | | | 8,85 | | 83 | | | 6 | 1 |
| 11 | 246,4 | - | 0 | 172.58 | 19,4543 | 0,287 | -56,3531 | 0 | 2,4665 | 1,5309 |
| | 39 | 18,0604 | | 3,42 | | | | | 5 | 4 |
| 11 | 246,5 | - | 0 | 172.20 | 20,1164 | 0,3058 | -56,3097 | 0 | 2,4669 | 1,5308 |
| | 39 | 17,8137 | | 7,50 | | 85 | | | 4 | 6 |
| 11 | 246,6 | -17,567 | 0 | 171.83 | 20,7596 | 0,3247 | -56,2661 | 0 | 2,4673 | 1,5307 |
| | 39 | | | 1,20 | | 54 | | | 4 | 8 |
| 11 | 246,7 | - | 0 | 171.45 | 21,3861 | 0,3435 | -56,2226 | 0 | 2,4677 | 1,5307 |
| | 39 | 17,3202 | | 4,79 | | 95 | | | 3 | 1 |
| 11 | 246,8 | - | 0 | 171.07 | 21,997 | 0,3624 | -56,1791 | 0 | 2,4681 | 1,5306 |



| | | | | | | | | | | |
|----|---------|--------------|---|------------|---------|----------|----------|---|---------|---------|
| | 39 | 17,0734 | | 8,42 | | 16 | | | 2 | 3 |
| 11 | 246,939 | -16,8266 | 0 | 170.702,07 | 22,594 | 0,381209 | -56,1357 | 0 | 2,46851 | 1,53056 |
| 11 | 247,059 | -16,5303 | 0 | 170.250,59 | 23,2935 | 0,403724 | -56,0835 | 0 | 2,46898 | 1,53047 |
| 11 | 247,203 | -16,1748 | 0 | 169.708,51 | 24,1108 | 0,430684 | -56,0209 | 0 | 2,46954 | 1,53036 |
| 11 | 247,376 | -15,748 | 0 | 169.057,29 | 25,063 | 0,462951 | -55,9457 | 0 | 2,47022 | 1,53023 |
| 11 | 247,583 | -15,2357 | 0 | 168.275,10 | 26,1694 | 0,501544 | -55,8554 | 0 | 2,47103 | 1,53007 |
| 11 | 247,832 | -14,6207 | 0 | 167.345,47 | 27,4502 | 0,54766 | -55,7534 | 0 | 2,47199 | 1,52992 |
| 11 | 248,131 | -13,8824 | 0 | 166.513,79 | 28,9297 | 0,601221 | -55,8203 | 0 | 2,47298 | 1,53098 |
| 11 | 248,489 | -12,9962 | 0 | 166.018,74 | 30,633 | 0,66182 | -56,2361 | 0 | 2,47389 | 1,53416 |
| 11 | 248,919 | -11,9322 | 0 | 165.996,28 | 32,5913 | 0,72905 | -57,09 | 0 | 2,4747 | 1,54025 |
| 11 | 249,435 | -10,6551 | 0 | 166.410,97 | 34,8336 | 0,804262 | -58,0915 | 0 | 2,47559 | 1,54719 |
| 11 | 250,054 | -9,12187 | 0 | 167.104,65 | 37,3883 | 0,890093 | -58,8576 | 0 | 2,47676 | 1,55231 |
| 11 | 250,797 | -7,28103 | 0 | 167.893,53 | 40,2836 | 0,989187 | -59,1987 | 0 | 2,47841 | 1,55431 |
| 11 | 251,689 | -5,07024 | 0 | 168.534,32 | 43,5922 | 1,10383 | -58,9382 | 0 | 2,48073 | 1,55201 |
| 11 | 252,759 | -2,41425 | 0 | 168.567,18 | 47,6556 | 1,23242 | -57,6766 | 0 | 2,48415 | 1,54287 |
| 11 | 253,73 | 2,07026 E-14 | 0 | 167.619,49 | 51,4713 | 1,34474 | -55,5909 | 0 | 2,48806 | 1,5286 |
| 11 | 253,73 | 2,07026 E-14 | 0 | 168.128,85 | 51,378 | 1,34363 | -55,6652 | 0 | 2,49079 | 1,52882 |
| 11 | 254,043 | 0,779389 | 0 | 167.554,58 | 52,6323 | 1,37964 | -54,8118 | 0 | 2,49191 | 1,52317 |
| 11 | 255,584 | 4,62605 | 0 | 161.969,96 | 58,8948 | 1,55636 | -49,3915 | 0 | 2,50114 | 1,48948 |
| 11 | 257,4 | 9,32885 | 0 | 151.59 | 66,4505 | 1,7389 | -40,7545 | 0 | 2,5898 | 1,4398 |



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|----|-------------|--------------|---|----------------|----------------|---------------|----------|---|-------------|-------------|
| | 32 | | | 7,78 | | | | | 2 | 9 |
| 11 | 259,6 51 | 15,2084 | 0 | 135.29 1,03 | 75,285 | 1,9958 3 | -28,1345 | 0 | 2,7114 6 | 1,3742 2 |
| 11 | 262,0 78 | 21,9685 | 0 | 112.53 2,45 | 84,258 | 2,3498 2 | -12,0056 | 0 | 2,8623 8 | 1,2995 8 |
| 11 | 262,0 78 | 21,9685 | 0 | 112.53 2,45 | 84,258 | 2,3498 2 | -12,0056 | 0 | 2,8623 9 | 1,2995 8 |
| 11 | 262,3 13 | 22,6449 | 0 | 109.72 0,96 | 85,0108 | 2,3908 7 | -10,1151 | 0 | 2,8794 1 | 1,2913 6 |
| 11 | 265,5 08 | 32,1987 | 0 | 77.646, 64 | 94,5828 | 2,9988 1 | 5,24889 | 0 | 3,0955 5 | 1,2307 1 |
| 11 | 269,3 42 | 44,4916 | 0 | 54.218, 65 | 104,088 | 3,7527 2 | 12,4953 | 0 | 3,3100 3 | 1,2062 5 |
| 11 | 273,9 42 | 60,2225 | 0 | 38.059, 38 | 114,162 | 4,6454 6 | 16,2571 | 0 | 3,5224 3 | 1,1950 4 |
| 11 | 277,5 25 | 73,103 | 0 | 30.127, 80 | 121,529 | 5,3295 3 | 17,8208 | 0 | 3,6651 7 | 1,1908 2 |
| 11 | 277,5 25 | 73,103 | 0 | 30.127, 80 | 121,529 | 5,3295 3 | 17,8208 | 0 | 3,6651 7 | 1,1908 2 |
| 11 | 279,4 63 | 80,2756 | 0 | 26.807, 90 | 125,268 | 5,7071 8 | 18,4206 | 0 | 3,7382 3 | 1,1893 |
| 11 | 282,4 16 | 91,4805 | 0 | 22.663, 31 | 130,322 | 6,3275 8 | 19,1325 | 0 | 3,8509 5 | 1,1876 |
| 11 | 286,0 88 | 105,897 | 0 | 18.558, 86 | 135,545 | 7,1537 | 19,7679 | 0 | 3,9892 8 | 1,1861 9 |
| 11 | 294,0 37 | 138,738 | 0 | 13.031, 45 | 142,668 | 9,0969 2 | 21,769 | 0 | 4,2743 7 | 1,1803 6 |
| 11 | 300,3 | 166,21 | 0 | 10.237, 71 | 145,352 | 10,843 7 | 22,7846 | 0 | 4,4954 9 | 1,1775 3 |
| 12 | 257,7 82 | - 21,9685 | 0 | 1,00 | 0,00177 245 | 0,1863 1 | 24,6396 | 0 | 2,5820 8 | 1,1739 6 |
| 12 | 257,8 82 | - 21,7199 | 0 | 146.60 5,06 | 4,9645 | 0,0189 608 | -53,791 | 0 | 2,4852 1 | 1,5289 3 |
| 12 | 257,9 82 | - 21,4713 | 0 | 146.32 4,60 | 7,0269 | 0,0378 261 | -53,7551 | 0 | 2,4857 | 1,5288 5 |
| 12 | 258,0 82 | - 21,2227 | 0 | 145.85 9,42 | 8,61632 | 0,0566 377 | -53,6987 | 0 | 2,4862 3 | 1,5287 3 |

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|----|-------------|--------------------|---|----------------|---------|--------------|----------|---|-------------|-------------|
| 12 | 258,1 82 | - 20,9741 | 0 | 145.36 6,43 | 9,95763 | 0,0754 52 | -53,6406 | 0 | 2,4867 4 | 1,5286 3 |
| 12 | 258,2 82 | - 20,7254 | 0 | 144.87 6,68 | 11,1406 | 0,0942 77 | -53,5836 | 0 | 2,4872 3 | 1,5285 3 |
| 12 | 258,3 82 | - 20,4766 | 0 | 144.38 3,93 | 12,2179 | 0,1130 2 | -53,5266 | 0 | 2,4877 2 | 1,5284 3 |
| 12 | 258,4 82 | - 20,2278 | 0 | 143.87 7,92 | 13,2156 | 0,1316 86 | -53,4679 | 0 | 2,4882 4 | 1,5283 3 |
| 12 | 258,5 82 | -19,979 19,7301 | 0 | 143.36 6,80 | 14,1425 | 0,1503 66 | -53,4087 | 0 | 2,4887 5 | 1,5282 3 |
| 12 | 258,6 82 | - 19,7301 | 0 | 142.85 8,43 | 15,0137 | 0,1690 44 | -53,3501 | 0 | 2,4892 5 | 1,5281 3 |
| 12 | 258,7 82 | - 19,4811 | 0 | 142.35 4,10 | 15,8396 | 0,1876 99 | -53,292 | 0 | 2,4897 5 | 1,5280 3 |
| 12 | 258,8 82 | - 19,2321 | 0 | 141.85 6,87 | 16,627 | 0,2063 4 | -53,235 | 0 | 2,4902 4 | 1,5279 4 |
| 12 | 258,9 82 | - 18,9831 | 0 | 141.36 5,41 | 17,3817 | 0,2249 53 | -53,1788 | 0 | 2,4907 1 | 1,5278 4 |
| 12 | 259,0 82 | -18,734 18,4848 | 0 | 140.87 7,69 | 18,1084 | 0,2435 24 | -53,123 | 0 | 2,4911 9 | 1,5277 5 |
| 12 | 259,1 82 | - 18,4848 | 0 | 140.39 1,54 | 18,8108 | 0,2620 46 | -53,0674 | 0 | 2,4916 6 | 1,5276 6 |
| 12 | 259,2 82 | - 18,2356 | 0 | 139.90 5,63 | 19,4913 | 0,2805 24 | -53,0118 | 0 | 2,4921 3 | 1,5275 7 |
| 12 | 259,3 82 | - 17,9864 | 0 | 139.42 0,33 | 20,1507 | 0,2989 86 | -52,9563 | 0 | 2,4926 7 | 1,5274 7 |
| 12 | 259,4 82 | - 17,7371 | 0 | 138.93 4,30 | 20,7918 | 0,3174 1 | -52,9006 | 0 | 2,4930 7 | 1,5273 8 |
| 12 | 259,5 82 | - 17,4878 | 0 | 138.44 9,20 | 21,4156 | 0,3358 12 | -52,8451 | 0 | 2,4935 5 | 1,5272 9 |
| 12 | 259,6 82 | - 17,2384 | 0 | 137.96 4,83 | 22,024 | 0,3541 86 | -52,7896 | 0 | 2,4940 2 | 1,5272 |
| 12 | 259,7 82 | -16,989 16,6896 | 0 | 137.47 8,61 | 22,6199 | 0,3724 86 | -52,734 | 0 | 2,4944 9 | 1,5271 1 |
| 12 | 259,9 02 | - 16,6896 | 0 | 136.89 8,19 | 23,3173 | 0,3944 25 | -52,6677 | 0 | 2,4950 5 | 1,527 |
| 12 | 260,0 46 | - 16,3303 | 0 | 136.20 3,81 | 24,1324 | 0,4206 76 | -52,5883 | 0 | 2,4957 2 | 1,5268 7 |



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|----|-------------|--------------|---|----------------|---------|--------------|----------|---|-------------|-------------|
| 12 | 260,2 18 | -15,899 | 0 | 135.37 9,42 | 25,0795 | 0,4521 65 | -52,4942 | 0 | 2,4965 1 | 1,5267 2 |
| 12 | 260,4 26 | - 15,3812 | 0 | 134.39 5,82 | 26,1785 | 0,4898 39 | -52,382 | 0 | 2,4974 5 | 1,5265 3 |
| 12 | 260,6 75 | - 14,7596 | 0 | 133.22 5,29 | 27,4489 | 0,5349 28 | -52,2486 | 0 | 2,4985 6 | 1,5263 2 |
| 12 | 260,9 73 | - 14,0133 | 0 | 131.99 0,26 | 28,9137 | 0,5878 67 | -52,2176 | 0 | 2,4997 9 | 1,5268 5 |
| 12 | 261,3 31 | - 13,1174 | 0 | 130.91 6,73 | 30,6015 | 0,6479 64 | -52,5054 | 0 | 2,5010 3 | 1,5295 |
| 12 | 261,7 61 | - 12,0417 | 0 | 130.11 5,61 | 32,5432 | 0,7147 04 | -53,2241 | 0 | 2,5022 9 | 1,535 |
| 12 | 262,2 77 | - 10,7502 | 0 | 129.57 0,02 | 34,769 | 0,7888 43 | -54,1737 | 0 | 2,5036 8 | 1,5420 1 |
| 12 | 262,8 97 | - 9,19943 | 0 | 129.14 5,01 | 37,3066 | 0,8729 45 | -54,9141 | 0 | 2,5053 8 | 1,5475 2 |
| 12 | 263,6 4 | - 7,33713 | 0 | 128.67 0,63 | 40,1875 | 0,9696 45 | -55,2197 | 0 | 2,5075 1 | 1,5499 8 |
| 12 | 264,5 31 | -5,1002 | 0 | 127.92 2,69 | 43,4722 | 1,0816 2 | -54,884 | 0 | 2,5102 4 | 1,5480 5 |
| 12 | 265,6 01 | - 2,41251 | 0 | 126.53 8,43 | 47,4787 | 1,2077 7 | -53,5267 | 0 | 2,5138 6 | 1,5393 |
| 12 | 266,8 85 | 0,81817 6 | 0 | 123.93 7,72 | 52,4953 | 1,3524 1 | -50,5392 | 0 | 2,5187 7 | 1,5201 5 |
| 12 | 268,4 26 | 4,70378 | 0 | 119.42 2,31 | 58,6864 | 1,5283 7 | -45,2716 | 0 | 2,5252 8 | 1,4875 5 |
| 12 | 270,2 75 | 9,43378 | 0 | 112.00 8,82 | 66,1782 | 1,7174 4 | -37,0016 | 0 | 2,6001 5 | 1,4394 7 |
| 12 | 272,4 93 | 15,3309 | 0 | 100.36 4,48 | 74,9747 | 1,9728 9 | -25,0192 | 0 | 2,7170 6 | 1,3757 8 |
| 12 | 274,8 76 | 21,9685 | 0 | 84.083, 00 | 83,8253 | 2,3136 1 | -10,2491 | 0 | 2,8586 5 | 1,3052 2 |
| 12 | 274,8 76 | 21,9685 | 0 | 84.083, 00 | 83,8253 | 2,3136 1 | -10,2491 | 0 | 2,8586 5 | 1,3052 2 |
| 12 | 275,1 56 | 22,7721 | 0 | 81.559, 41 | 84,7254 | 2,3616 3 | -8,13974 | 0 | 2,878 | 1,2956 9 |
| 12 | 278,3 5 | 32,3112 | 0 | 57.603, 13 | 94,4451 | 2,9563 3 | 6,19409 | 0 | 3,0863 3 | 1,2357 7 |

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|----|---------|----------|---|-----------|------------|-----------|----------|---|---------|---------|
| 12 | 282,184 | 44,5644 | 0 | 40.003,82 | 104,351 | 3,70327 | 13,0529 | 0 | 3,29887 | 1,21019 |
| 12 | 286,785 | 60,2406 | 0 | 27.950,84 | 114,966 | 4,58547 | 16,6138 | 0 | 3,5099 | 1,19796 |
| 12 | 289,906 | 71,3928 | 0 | 22.712,85 | 121,763 | 5,17396 | 17,9382 | 0 | 3,63511 | 1,19368 |
| 12 | 292,305 | 80,229 | 0 | 19.624,17 | 126,865 | 5,62359 | 18,6547 | 0 | 3,72272 | 1,19144 |
| 12 | 293,125 | 83,2919 | 0 | 18.717,66 | 128,594 | 5,77525 | 18,8573 | 0 | 3,75134 | 1,19082 |
| 12 | 293,125 | 83,2919 | 0 | 18.717,66 | 128,594 | 5,77526 | 18,8573 | 0 | 3,75134 | 1,19082 |
| 12 | 298,93 | 105,651 | 0 | 13.758,61 | 139,417 | 6,91292 | 19,9036 | 0 | 3,95037 | 1,18773 |
| 12 | 304,874 | 129,728 | 0 | 10.485,11 | 147,325 | 8,21532 | 21,5125 | 0 | 4,15118 | 1,18253 |
| | | | | | | | | | | |
| 13 | 290,954 | -21,9685 | 0 | 1,00 | 0,00177245 | 0,18631 | 24,6396 | 0 | 2,58208 | 1,17396 |
| 13 | 291,054 | -21,7154 | 0 | 84.152,52 | 5,00444 | 0,0181734 | -47,5105 | 0 | 2,52963 | 1,52333 |
| 13 | 291,154 | -21,4625 | 0 | 84.027,41 | 7,08498 | 0,03625 | -47,5036 | 0 | 2,52986 | 1,52333 |
| 13 | 291,254 | -21,2095 | 0 | 83.815,14 | 8,68286 | 0,0543399 | -47,4796 | 0 | 2,53008 | 1,52333 |
| 13 | 291,354 | -20,9565 | 0 | 83.585,92 | 10,0358 | 0,0723925 | -47,4531 | 0 | 2,53029 | 1,52325 |
| 13 | 291,454 | -20,7034 | 0 | 83.345,46 | 11,233 | 0,0904061 | -47,4253 | 0 | 2,53052 | 1,52321 |
| 13 | 291,554 | -20,4504 | 0 | 83.100,12 | 12,3171 | 0,108414 | -47,3971 | 0 | 2,53074 | 1,52316 |
| 13 | 291,654 | -20,1973 | 0 | 82.854,59 | 13,3152 | 0,126419 | -47,3689 | 0 | 2,53096 | 1,52312 |
| 13 | 291,754 | -19,9442 | 0 | 82.610,06 | 14,2468 | 0,144405 | -47,3409 | 0 | 2,53118 | 1,52307 |
| 13 | 291,854 | -19,691 | 0 | 82.365,86 | 15,1247 | 0,162364 | -47,3129 | 0 | 2,5314 | 1,52303 |
| 13 | 291,9 | - | 0 | 82.121, | 15,9581 | 0,1802 | -47,285 | 0 | 2,5316 | 1,5229 |

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|----|-------|---------|---|---------|---------|--------|----------|---|--------|--------|
| | 54 | 19,4379 | | 29 | | 92 | | | 2 | 9 |
| 13 | 292,0 | - | 0 | 81.876, | 16,753 | 0,1981 | -47,257 | 0 | 2,5318 | 1,5229 |
| | 54 | 19,1847 | | 22 | | 99 | | | 4 | 4 |
| 13 | 292,1 | - | 0 | 81.630, | 17,5139 | 0,2160 | -47,2289 | 0 | 2,5320 | 1,5229 |
| | 54 | 18,9315 | | 79 | | 97 | | | 5 | |
| 13 | 292,2 | - | 0 | 81.385, | 18,245 | 0,2339 | -47,2009 | 0 | 2,5322 | 1,5228 |
| | 54 | 18,6783 | | 47 | | 86 | | | 7 | 5 |
| 13 | 292,3 | - | 0 | 81.140, | 18,95 | 0,2518 | -47,1729 | 0 | 2,5324 | 1,5228 |
| | 54 | 18,4251 | | 49 | | 6 | | | 9 | 1 |
| 13 | 292,4 | - | 0 | 80.896, | 19,6318 | 0,2697 | -47,145 | 0 | 2,5327 | 1,5227 |
| | 54 | 18,1718 | | 00 | | 19 | | | 1 | 7 |
| 13 | 292,5 | - | 0 | 80.651, | 20,293 | 0,2875 | -47,1172 | 0 | 2,5329 | 1,5227 |
| | 54 | 17,9185 | | 95 | | 57 | | | 2 | 2 |
| 13 | 292,6 | - | 0 | 80.408, | 20,9358 | 0,3053 | -47,0894 | 0 | 2,5331 | 1,5226 |
| | 54 | 17,6652 | | 16 | | 71 | | | 4 | 8 |
| 13 | 292,7 | - | 0 | 80.164, | 21,5617 | 0,3231 | -47,0616 | 0 | 2,5333 | 1,5226 |
| | 54 | 17,4119 | | 46 | | 63 | | | 5 | 4 |
| 13 | 292,8 | - | 0 | 79.920, | 22,1721 | 0,3409 | -47,0338 | 0 | 2,5335 | 1,5225 |
| | 54 | 17,1585 | | 81 | | 33 | | | 7 | 9 |
| 13 | 292,9 | - | 0 | 79.677, | 22,7686 | 0,3586 | -47,0061 | 0 | 2,5337 | 1,5225 |
| | 54 | 16,9052 | | 35 | | 77 | | | 8 | 5 |
| 13 | 293,0 | - | 0 | 79.385, | 23,4669 | 0,3799 | -46,9728 | 0 | 2,5340 | 1,5225 |
| | 74 | 16,6011 | | 35 | | 49 | | | 4 | |
| 13 | 293,2 | - | 0 | 79.035, | 24,2822 | 0,4054 | -46,933 | 0 | 2,5343 | 1,5224 |
| | 18 | 16,2362 | | 76 | | 38 | | | 5 | 4 |
| 13 | 293,3 | - | 0 | 78.618, | 25,2302 | 0,4359 | -46,8854 | 0 | 2,5347 | 1,5223 |
| | 91 | 15,7982 | | 24 | | 87 | | | 2 | 6 |
| 13 | 293,5 | - | 0 | 78.119, | 26,3295 | 0,4725 | -46,8288 | 0 | 2,5351 | 1,5222 |
| | 98 | 15,2726 | | 93 | | 82 | | | 5 | 8 |
| 13 | 293,8 | - | 0 | 77.526, | 27,5995 | 0,5164 | -46,7613 | 0 | 2,5356 | 1,5221 |
| | 47 | 14,6417 | | 18 | | 15 | | | 7 | 7 |
| 13 | 294,1 | - | 0 | 76.843, | 29,0636 | 0,5685 | -46,7148 | 0 | 2,5362 | 1,5222 |
| | 46 | 13,8844 | | 55 | | 94 | | | 7 | 7 |
| 13 | 294,5 | - | 0 | 76.206, | 30,7487 | 0,6287 | -46,9018 | 0 | 2,5369 | 1,5239 |
| | 04 | 12,9756 | | 52 | | 59 | | | | |
| 13 | 294,9 | - | 0 | 75.777, | 32,6845 | 0,6954 | -47,5753 | 0 | 2,5374 | 1,5287 |
| | 34 | 11,8846 | | 25 | | 84 | | | 9 | 2 |
| 13 | 295,4 | - | 0 | 75.552, | 34,8995 | 0,7694 | -48,5516 | 0 | 2,5381 | 1,5355 |



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|----|-------------|--------------|---|---------------|----------------|--------------|----------|---|-------------|-------------|
| | 5 | 10,5751 | | 91 | | 28 | | | 1 | 1 |
| 13 | 296,0 69 | - 9,00338 | 0 | 75.455, 25 | 37,4216 | 0,8531 61 | -49,3541 | 0 | 2,5388 7 | 1,5410 9 |
| 13 | 296,8 12 | - 7,11662 | 0 | 75.364, 80 | 40,2808 | 0,9493 11 | -49,7367 | 0 | 2,5398 6 | 1,5437 9 |
| 13 | 297,7 04 | - 4,85145 | 0 | 75.143, 18 | 43,5425 | 1,0604 3 | -49,4996 | 0 | 2,5411 9 | 1,5422 8 |
| 13 | 298,7 74 | - 2,13156 | 0 | 74.567, 96 | 47,5091 | 1,1860 6 | -48,2704 | 0 | 2,5430 2 | 1,5341 8 |
| 13 | 300,0 58 | 1,13511 | 0 | 73.294, 70 | 52,4565 | 1,3304 6 | -45,4866 | 0 | 2,5456 | 1,5161 2 |
| 13 | 301,5 98 | 5,05994 | 0 | 70.853, 21 | 58,5768 | 1,5059 | -40,4792 | 0 | 2,5491 5 | 1,4848 1 |
| 13 | 303,4 47 | 9,81819 | 0 | 66.640, 37 | 66,0106 | 1,6987 6 | -32,5746 | 0 | 2,6122 9 | 1,4381 8 |
| 13 | 305,6 66 | 15,7382 | 0 | 59.761, 95 | 74,7542 | 1,9529 7 | -21,1326 | 0 | 2,7255 4 | 1,3759 7 |
| 13 | 307,9 01 | 21,9685 | 0 | 50.508, 11 | 83,064 | 2,2689 8 | -8,06946 | 0 | 2,8535 1 | 1,3111 |
| 13 | 307,9 01 | 21,9685 | 0 | 50.508, 11 | 83,064 | 2,2689 6 | -8,06946 | 0 | 2,8535 4 | 1,3111 |
| 13 | 308,3 28 | 23,1964 | 0 | 48.170, 55 | 84,4445 | 2,3412 4 | -5,15689 | 0 | 2,8815 3 | 1,2973 3 |
| 13 | 311,5 23 | 32,7317 | 0 | 33.937, 14 | 94,2717 | 2,9236 3 | 7,58089 | 0 | 3,0808 5 | 1,2402 6 |
| 13 | 315,3 57 | 44,9573 | 0 | 23.453, 82 | 104,545 | 3,6632 8 | 13,8225 | 0 | 3,2903 2 | 1,2141 |
| 13 | 315,7 13 | 46,133 | 0 | 22.741, 55 | 105,444 | 3,7313 4 | 14,1794 | 0 | 3,3079 1 | 1,2126 4 |
| 13 | 319,9 57 | 60,5973 | 0 | 16.312, 04 | 115,673 | 4,5364 4 | 17,0853 | 0 | 3,4999 | 1,2009 6 |
| 13 | 325,4 78 | 80,5162 | 0 | 11.413, 85 | 128,207 | 5,5603 5 | 18,9584 | 0 | 3,7109 8 | 1,1936 7 |
| 13 | 326,3 7 | 83,8415 | 0 | 10.838, 54 | 130,186 | 5,7235 3 | 19,1602 | 0 | 3,7419 6 | 1,1929 |
| | | | | | | | | | | |
| 14 | 511,3 56 | - 21,9685 | 0 | 1,00 | 0,00177 245 | 0,1863 05 | 24,6322 | 0 | 2,5820 8 | 1,1739 9 |

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|----|---------|----------|---|----------|---------|-----------|----------|---|---------|---------|
| 14 | 511,456 | -21,7106 | 0 | 6.801,50 | 5,0498 | 0,017078 | -42,0465 | 0 | 2,57813 | 1,53213 |
| 14 | 511,556 | -21,4528 | 0 | 6.773,23 | 7,15006 | 0,0341597 | -42,0676 | 0 | 2,57815 | 1,53229 |
| 14 | 511,656 | -21,195 | 0 | 6.751,48 | 8,76581 | 0,051226 | -42,0697 | 0 | 2,57817 | 1,53231 |
| 14 | 511,756 | -20,9372 | 0 | 6.731,28 | 10,1293 | 0,0682957 | -42,0693 | 0 | 2,57818 | 1,53232 |
| 14 | 511,856 | -20,6794 | 0 | 6.711,73 | 11,3348 | 0,0853394 | -42,0682 | 0 | 2,5782 | 1,53233 |
| 14 | 511,956 | -20,4216 | 0 | 6.692,42 | 12,4272 | 0,102373 | -42,0669 | 0 | 2,57821 | 1,53233 |
| 14 | 512,056 | -20,1637 | 0 | 6.673,27 | 13,4329 | 0,119409 | -42,0654 | 0 | 2,57823 | 1,53233 |
| 14 | 512,156 | -19,9059 | 0 | 6.654,29 | 14,3711 | 0,136434 | -42,0638 | 0 | 2,57824 | 1,53233 |
| 14 | 512,256 | -19,6481 | 0 | 6.635,35 | 15,255 | 0,153438 | -42,0623 | 0 | 2,57826 | 1,53233 |
| 14 | 512,356 | -19,3903 | 0 | 6.616,48 | 16,0937 | 0,170422 | -42,0607 | 0 | 2,57827 | 1,53233 |
| 14 | 512,456 | -19,1324 | 0 | 6.597,63 | 16,8934 | 0,187395 | -42,0591 | 0 | 2,57828 | 1,53233 |
| 14 | 512,556 | -18,8746 | 0 | 6.578,78 | 17,6585 | 0,204368 | -42,0575 | 0 | 2,5783 | 1,53233 |
| 14 | 512,656 | -18,6168 | 0 | 6.559,95 | 18,3936 | 0,221335 | -42,0558 | 0 | 2,57831 | 1,53233 |
| 14 | 512,756 | -18,3589 | 0 | 6.541,17 | 19,1022 | 0,238296 | -42,0542 | 0 | 2,57833 | 1,53233 |
| 14 | 512,856 | -18,1011 | 0 | 6.522,42 | 19,7875 | 0,255247 | -42,0526 | 0 | 2,57834 | 1,53233 |
| 14 | 512,956 | -17,8433 | 0 | 6.503,69 | 20,4519 | 0,272182 | -42,051 | 0 | 2,57836 | 1,53233 |
| 14 | 513,056 | -17,5854 | 0 | 6.484,96 | 21,0977 | 0,289102 | -42,0494 | 0 | 2,57837 | 1,53233 |
| 14 | 513,156 | -17,3276 | 0 | 6.466,24 | 21,7266 | 0,306004 | -42,0477 | 0 | 2,57839 | 1,53233 |
| 14 | 513,256 | -17,0698 | 0 | 6.447,53 | 22,3399 | 0,322889 | -42,0461 | 0 | 2,5784 | 1,53233 |

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|----|-------------|--------------|---|--------------|---------|--------------|----------|---|-------------|-------------|
| 14 | 513,3 56 | - 16,8119 | 0 | 6.428,8 4 | 22,9386 | 0,3397 66 | -42,0445 | 0 | 2,5784 2 | 1,5323 3 |
| 14 | 513,4 76 | - 16,5025 | 0 | 6.406,4 1 | 23,6393 | 0,3600 04 | -42,0426 | 0 | 2,5784 3 | 1,5323 3 |
| 14 | 513,6 2 | - 16,1312 | 0 | 6.379,5 0 | 24,4569 | 0,3842 72 | -42,0402 | 0 | 2,5784 6 | 1,5323 3 |
| 14 | 513,7 93 | - 15,6857 | 0 | 6.347,2 2 | 25,4068 | 0,4133 81 | -42,0374 | 0 | 2,5784 8 | 1,5323 3 |
| 14 | 514,0 01 | -15,151 | 0 | 6.308,5 2 | 26,5072 | 0,4482 84 | -42,0341 | 0 | 2,5785 1 | 1,5323 3 |
| 14 | 514,2 49 | - 14,5094 | 0 | 6.262,1 4 | 27,7782 | 0,4901 14 | -42,03 | 0 | 2,5785 5 | 1,5323 3 |
| 14 | 514,5 48 | - 13,7394 | 0 | 6.208,8 4 | 29,2416 | 0,5399 63 | -42,0616 | 0 | 2,5785 9 | 1,5325 7 |
| 14 | 514,9 06 | - 12,8154 | 0 | 6.157,5 6 | 30,9233 | 0,5978 12 | -42,3026 | 0 | 2,5786 3 | 1,5342 1 |
| 14 | 515,3 36 | - 11,7067 | 0 | 6.123,9 0 | 32,8536 | 0,6620 32 | -43,0459 | 0 | 2,5786 8 | 1,5391 9 |
| 14 | 515,8 52 | - 10,3761 | 0 | 6.106,4 7 | 35,0606 | 0,7335 78 | -44,062 | 0 | 2,5787 2 | 1,5460 4 |
| 14 | 516,4 71 | - 8,77941 | 0 | 6.103,5 1 | 37,5713 | 0,8139 73 | -45,0054 | 0 | 2,5787 7 | 1,5524 4 |
| 14 | 517,2 14 | - 6,86334 | 0 | 6.106,2 7 | 40,4118 | 0,9058 75 | -45,5738 | 0 | 2,5788 4 | 1,5563 2 |
| 14 | 518,1 06 | - 4,56398 | 0 | 6.102,4 9 | 43,6342 | 1,0122 2 | -45,5284 | 0 | 2,5789 3 | 1,5560 1 |
| 14 | 519,1 76 | - 1,80463 | 0 | 6.071,6 3 | 47,5561 | 1,1325 | -44,4648 | 0 | 2,5790 6 | 1,5487 9 |
| 14 | 520,4 6 | 1,5068 | 0 | 5.980,8 5 | 52,4712 | 1,2716 2 | -41,7391 | 0 | 2,5792 5 | 1,5305 7 |
| 14 | 522,0 01 | 5,48086 | 0 | 5.788,7 5 | 58,5483 | 1,4429 1 | -36,7106 | 0 | 2,5795 2 | 1,4980 5 |
| 14 | 523,8 49 | 10,2683 | 0 | 5.446,1 8 | 65,9451 | 1,6459 7 | -28,8541 | 0 | 2,6149 | 1,4498 4 |
| 14 | 526,0 68 | 16,1892 | 0 | 4.872,1 3 | 74,7046 | 1,8948 7 | -17,6603 | 0 | 2,7231 7 | 1,3858 9 |
| 14 | 528,1 48 | 21,9685 | 0 | 4.145,5 6 | 82,5206 | 2,1826 9 | -6,06859 | 0 | 2,8364 8 | 1,3242 |

| | | | | | | | | | | |
|----|-------------|---------|---|--------------|---------|-------------|----------|---|-------------|-------------|
| 14 | 528,1 48 | 21,9685 | 0 | 4.145,5 6 | 82,5206 | 2,1826 7 | -6,06859 | 0 | 2,8365 1 | 1,3242 |
| 14 | 528,1 48 | 21,9687 | 0 | 4.145,5 2 | 82,5209 | 2,1826 8 | -6,06805 | 0 | 2,8365 2 | 1,3242 |
| 14 | 528,7 3 | 23,6324 | 0 | 3.881,5 5 | 84,4202 | 2,2783 9 | -2,45528 | 0 | 2,8719 1 | 1,3056 2 |
| 14 | 531,9 25 | 33,1254 | 0 | 2.723,3 2 | 94,4247 | 2,8429 2 | 8,94654 | 0 | 3,0609 9 | 1,2483 4 |
| 14 | 534,1 12 | 39,9544 | 0 | 2.174,0 0 | 100,713 | 3,2604 9 | 12,7803 | 0 | 3,1839 8 | 1,2293 1 |
| 14 | 535,7 59 | 45,2699 | 0 | 1.863,7 4 | 105,2 | 3,5743 4 | 14,6363 | 0 | 3,2691 5 | 1,2200 7 |
| 14 | 540,3 59 | 60,8043 | 0 | 1.284,6 3 | 116,987 | 4,4381 1 | 17,6082 | 0 | 3,4787 7 | 1,2052 3 |
| 14 | 545,8 8 | 80,6108 | 0 | 891,71 | 130,275 | 5,4525 9 | 19,3049 | 0 | 3,6905 5 | 1,1967 |
| 14 | 546,7 56 | 83,8585 | 0 | 846,68 | 132,334 | 5,6114 2 | 19,4839 | 0 | 3,7210 9 | 1,1958 |

