

# Heaven and Earth Designs

## Her Private Garden

Chart No: HAEJUV 108

Chart Design by Michele Sayetta

**Artwork by Julie Vallejo**



Finished Design Size 52 1/2 W by 71 1/2 H (21 W X 28-1/2 H inches on 25ct fabric)

(This Chart Contains 87 Colors)

Heaven and Earth Designs LLC

33555 Wild Daffodil Ln.

Warrenton OR. 97146

320-214-7998

[www.heavenandearthdesigns.com](http://www.heavenandearthdesigns.com)

Copyright Heaven and Earth LLC

Copyright Julie Vallejo 2013

Congratulations on buying a **Heaven and Earth Designs LLC** Cross Stitch Chart .

We know it will bring you many hours of pleasurable stitching and believe the final result will be something to love and admire forever.

Included with your chart is a clear plastic bag to protect your chart, and a coded thread list for the threads you will need to complete your project. Our charts are designed to use DMC stranded cotton threads and, where appropriate, Kreinik metallic thread.

### **Chart Instructions:**

1. This chart is made up of several numbered pages beginning at the top left corner of the first page. The pages of chart are laid out from left to right in rows e.g. 1 2 3 4, 5 6 7 8. Although each chart is marked with arrows which indicate the centre , we believe you will find it easier to begin from the top left corner of page 1 and follow the chart page by page to the bottom right corner of the last page.
2. We recommend you stitch your design on either 18 count Aida or 25 count Linen. using 2 strands of cotton over one in each case.
3. At the top of the thread list you will find our recommendation for the fabric colour. We recommend purchasing a piece of fabric that equates to the design size plus 3 inches [75mm] all around, to allow for framing and matting.
4. Because of the large number of stitches, we have found it to be easier if you stitch one 10X10 grid at a time and then continue on to the next 10 x 10 grid.
5. Stitch each page until it is completed and then move on to the next. On each page there is a number at the top left that indicates the page number. On each corner is a number in parenthesis that indicates the connecting page, unless there is not one.
6. Under International Copyright Laws, you may copy the chart for your own use. We recommend that you use a copy as your working document. You may also wish to enlarge the pages to make the symbols easier to read.

**If you have any questions regarding this chart please feel free to contact us.**

































Heaven and Earth Designs LLC











































320-214-7998














<http://www.heavenandearthdesigns.com>

**Pattern Name:** Her Private Garden-Vallejo  
**Designed By:** Michele Sayetta  
**Company:** Heaven and Earth Designs LLC  
**Copyright:** 2013 Boris Vallejo Designs ®  
**Fabric:** Linen 25, White  
 525w X 713h Stitches  
**Size:** 25 Count, 21w X 28-1/2h in

### Floss Used for Full Stitches:

| Symbol   | Strands | Type | Number | Color               |
|--|---------|------|--------|---------------------|
|    | 2       | DMC  | 152    | Shell Pink-MD LT    |
|    | 2       | DMC  | 159    | Gray Blue-LT        |
|    | 2       | DMC  | 169    | Pewter-LT           |
|    | 2       | DMC  | 223    | Shell Pink-LT       |
|    | 2       | DMC  | 225    | Shell Pink-LT VY LT |
|    | 2       | DMC  | 300    | Mahogany-VY DK      |
|    | 2       | DMC  | 301    | Mahogany-MD         |
|    | 2       | DMC  | 310    | Black               |
|   | 2       | DMC  | 315    | Antique Mauve-VY DK |
|  | 2       | DMC  | 353    | Peach               |
|  | 2       | DMC  | 356    | Terra Cotta-MD      |
|  | 2       | DMC  | 372    | Mustard-LT          |
|  | 2       | DMC  | 400    | Mahogany-DK         |
|  | 2       | DMC  | 402    | Mahogany-VY LT      |
|  | 2       | DMC  | 413    | Pewter Gray-DK      |
|  | 2       | DMC  | 414    | Steel Gray-DK       |
|  | 2       | DMC  | 433    | Brown-MD            |
|  | 2       | DMC  | 434    | Brown-LT            |
|  | 2       | DMC  | 436    | Tan                 |
|  | 2       | DMC  | 451    | Shell Gray-DK       |
|  | 2       | DMC  | 453    | Shell Gray-LT       |
|  | 2       | DMC  | 498    | Christmas Red-DK    |
|  | 2       | DMC  | 501    | Blue Green-DK       |
|  | 2       | DMC  | 524    | Fern Green-VY LT    |
|  | 2       | DMC  | 606    | Bright Orange-Red   |
|  | 2       | DMC  | 640    | Beige Gray-VY DK    |
|  | 2       | DMC  | 645    | Beaver Gray-VY DK   |
|  | 2       | DMC  | 720    | Orange Spice-DK     |
|  | 2       | DMC  | 738    | Tan-VY LT           |
|  | 2       | DMC  | 742    | Tangerine-LT        |
|  | 2       | DMC  | 745    | Yellow-LT Pale      |
|  | 2       | DMC  | 760    | Salmon              |





































| Symbol   | Strands | Type | Number   | Color               |
|--|---------|------|----------|---------------------|
|    | v       | 2    | DMC 762  | Pearl Gray-VYLT     |
|    | x       | 2    | DMC 772  | Yellow Green-VYLT   |
|    | e       | 2    | DMC 779  | Cocoa-DK            |
|    |         | 2    | DMC 780  | Topaz-ULVYDK        |
|    | v       | 2    | DMC 781  | Topaz-VYDK          |
|    | o       | 2    | DMC 782  | Topaz-DK            |
|    | III     | 2    | DMC 840  | Beige Brown-MD      |
|    | s       | 2    | DMC 844  | Beaver Brown-ULDK   |
|    | ↓       | 2    | DMC 869  | Hazelnut Brown-VYDK |
|    | x       | 2    | DMC 902  | Garnet-VYDK         |
|    | †       | 2    | DMC 918  | Red Copper-DK       |
|    | ‡       | 2    | DMC 919  | Red Copper          |
|    | ⊗       | 2    | DMC 920  | Copper-MD           |
|    | L       | 2    | DMC 922  | Copper-LT           |
|    | ·       | 2    | DMC 924  | Gray Green-VYDK     |
|    | ≈       | 2    | DMC 926  | Gray Green-MD       |
|    | 9       | 2    | DMC 927  | Gray Green-LT       |
|    | ⊗       | 2    | DMC 934  | Black Avocado Green |
|   | ∇       | 2    | DMC 938  | Coffee Brown-ULDK   |
|  | y       | 2    | DMC 977  | Golden Brown-LT     |
|  | 5       | 2    | DMC 993  | Aquamarine-LT       |
|  | m       | 2    | DMC 3031 | Mocha Brown-VYDK    |
|  | ♠       | 2    | DMC 3041 | Antique Violet-MD   |
|  | ⊗       | 2    | DMC 3042 | Antique Violet-LT   |
|  | ⌒       | 2    | DMC 3072 | Beaver Gray-VYLT    |
|  | ♣       | 2    | DMC 3364 | Pine Green          |
|  | ♣       | 2    | DMC 3371 | Black Brown         |
|  | (       | 2    | DMC 3721 | Shell Pink-DK       |
|  | ⊠       | 2    | DMC 3722 | Shell Pink-MD       |
|  | ¢       | 2    | DMC 3727 | Antique Mauve-LT    |
|  | ⊗       | 2    | DMC 3740 | Antique Violet-DK   |
|  | ↑       | 2    | DMC 3743 | Antique Violet-VYLT |
|  | 4       | 2    | DMC 3752 | Antique Blue-VYLT   |
|  | ✱       | 2    | DMC 3770 | Tawny-VYLT          |
|  | ⌒       | 2    | DMC 3772 | Desert Sand-VYDK    |
|  | ■       | 2    | DMC 3776 | Mahogany-LT         |
|  | ⌒       | 2    | DMC 3778 | Terra Cotta-LT      |
|  | ←       | 2    | DMC 3779 | Terra Cotta-ULVYLT  |
|  | △       | 2    | DMC 3787 | Brown Gray-DK       |
|  | ⌒       | 2    | DMC 3799 | Pewter Gray-VYDK    |
|  | 6       | 2    | DMC 3814 | Aquamarine          |
|  | ✱       | 2    | DMC 3817 | Celadon Green-LT    |











































| Symbol  | Strands | Type | Number | Color             |
|---|---------|------|--------|-------------------|
|   | 2       | DMC  | 3822   | Straw-LT          |
|  | 2       | DMC  | 3823   | Yellow-UL Pale    |
|   | 2       | DMC  | 3825   | Pumpkin-Pale      |
|   | 2       | DMC  | 3830   | Terra Cotta-MD    |
|   | 2       | DMC  | 3836   | Grape-LT          |
|   | 2       | DMC  | 3853   | Autumn Gold-DK    |
|   | 2       | DMC  | 3854   | Autumn Gold-MD    |
|   | 2       | DMC  | 3856   | Mahogany-UL VY LT |
|   | 2       | DMC  | 3857   | Rosewood-DK       |
|   | 2       | DMC  | 3858   | Rosewood-MD       |
|   | 2       | DMC  | 3860   | Cocoa             |
|   | 2       | DMC  | 3861   | Cocoa-LT          |
|   | 2       | DMC  | 3865   | Winter White      |










## Usage Summary

Strands Per Skein: 6

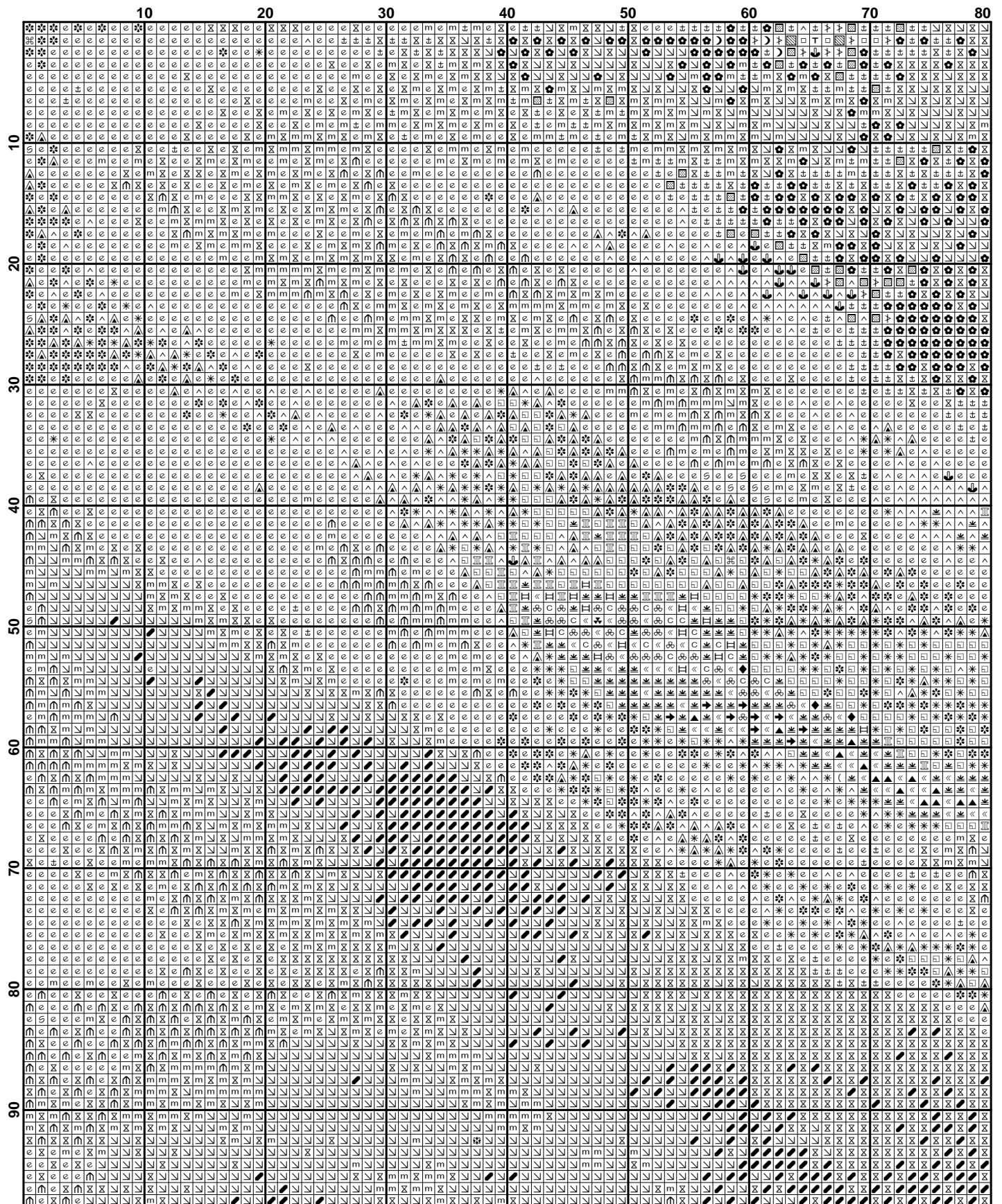
Skein Length: 313.0 in

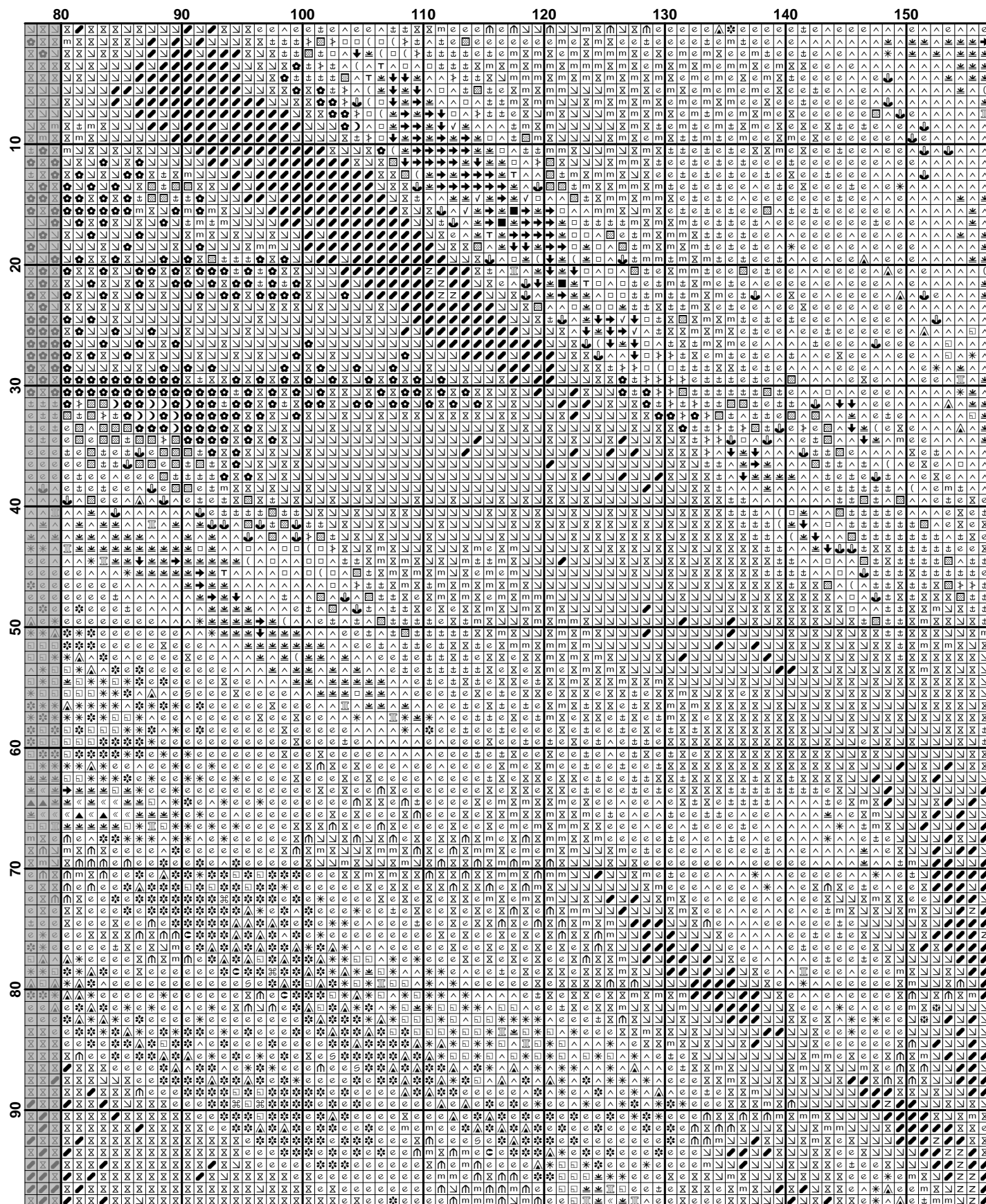
| Type   | Number | Full  | Half | Quarter | Petite | Back(in) | Str(in) | Spec(in) | French | Bead | Skein Est. |
|--|--------|-------|------|---------|--------|----------|---------|----------|--------|------|------------|
|  DMC 152   | 152    | 6234  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 159   | 159    | 963   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 169   | 169    | 2934  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 223   | 223    | 3864  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 225   | 225    | 8704  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 3.000      |
|  DMC 300   | 300    | 3978  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 301   | 301    | 629   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 310   | 310    | 17101 | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 5.000      |
|  DMC 315   | 315    | 4930  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 353   | 353    | 7610  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 3.000      |
|  DMC 356   | 356    | 5220  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 372   | 372    | 1032  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 400  | 400    | 1049  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 402 | 402    | 5125  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 413 | 413    | 956   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 414 | 414    | 704   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 433 | 433    | 525   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 434 | 434    | 865   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 436 | 436    | 1351  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 451 | 451    | 2697  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 453 | 453    | 6566  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 498 | 498    | 987   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 501 | 501    | 172   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 524 | 524    | 1491  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 606 | 606    | 530   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 640 | 640    | 899   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 645 | 645    | 1405  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 720 | 720    | 749   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 738 | 738    | 1208  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 742 | 742    | 12    | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 745 | 745    | 842   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 760 | 760    | 2193  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 762 | 762    | 5738  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 772 | 772    | 460   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 779 | 779    | 14777 | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 5.000      |
|  DMC 780 | 780    | 291   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |

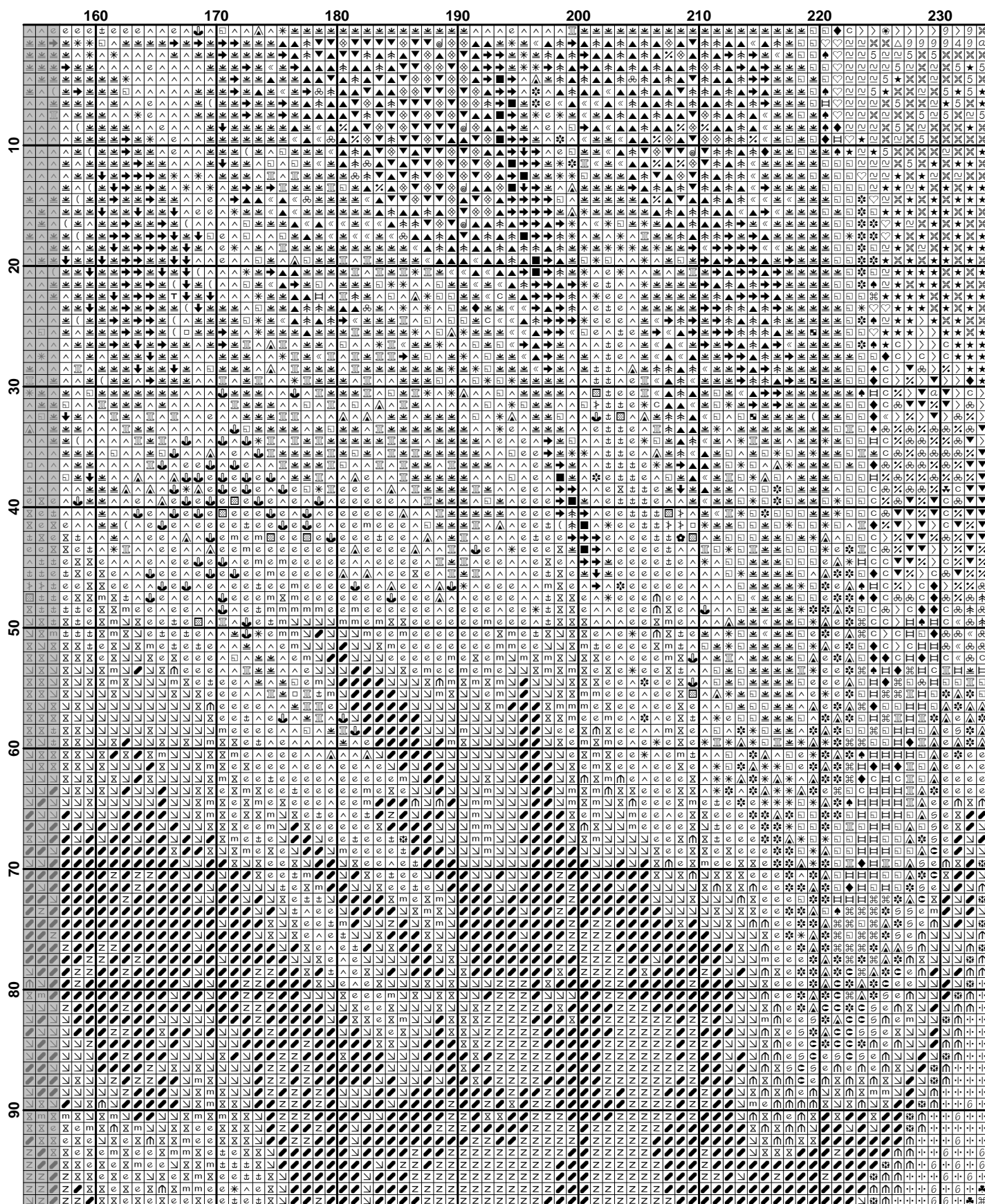
| Type  | Number | Full  | Half | Quarter | Petite | Back(in) | Str(in) | Spec(in) | French | Bead | Skein Est. |
|---|--------|-------|------|---------|--------|----------|---------|----------|--------|------|------------|
|  DMC 781    | 781    | 148   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 782    | 782    | 152   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 840    | 840    | 895   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 844    | 844    | 1097  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 869    | 869    | 485   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 902    | 902    | 21303 | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 6.000      |
|  DMC 918    | 918    | 4862  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 919    | 919    | 1058  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 920    | 920    | 871   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 922    | 922    | 3304  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 924    | 924    | 308   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 926    | 926    | 1179  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 927    | 927    | 2104  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 934    | 934    | 1458  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 938    | 938    | 13299 | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 4.000      |
|  DMC 977    | 977    | 324   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 993    | 993    | 713   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3031   | 3031   | 4208  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 3041 | 3041   | 2276  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3042 | 3042   | 3066  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3072 | 3072   | 8093  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 3.000      |
|  DMC 3364 | 3364   | 160   | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3371 | 3371   | 19788 | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 6.000      |
|  DMC 3721 | 3721   | 4053  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 3722 | 3722   | 2516  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3727 | 3727   | 4690  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 3740 | 3740   | 3406  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3743 | 3743   | 7173  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 3752 | 3752   | 2547  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3770 | 3770   | 26309 | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 8.000      |
|  DMC 3772 | 3772   | 5679  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 3776 | 3776   | 1898  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3778 | 3778   | 5390  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 3779 | 3779   | 3635  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3787 | 3787   | 2027  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3799 | 3799   | 4217  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 3814 | 3814   | 59    | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3817 | 3817   | 5068  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 3822 | 3822   | 61    | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 1.000      |
|  DMC 3823 | 3823   | 8906  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 3.000      |
|  DMC 3825 | 3825   | 6380  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |
|  DMC 3830 | 3830   | 5403  | 0    | 0       | 0      | 0.0      | 0.0     | 0.0      | 0      | 0    | 2.000      |

| Type  | Number | Full | Half | Quarter | Petite | Back(in) | Str(in) | Spec(in) | French | Bead   | Skein Est. |
|---|--------|------|------|---------|--------|----------|---------|----------|--------|--------|------------|
|  DMC 3836 | 1306   | 0    | 0    | 0       | 0.0    | 0.0      | 0.0     | 0        | 0      | 1.000  |            |
|  DMC 3853 | 81     | 0    | 0    | 0       | 0.0    | 0.0      | 0.0     | 0        | 0      | 1.000  |            |
|  DMC 3854 | 344    | 0    | 0    | 0       | 0.0    | 0.0      | 0.0     | 0        | 0      | 1.000  |            |
|  DMC 3856 | 3211   | 0    | 0    | 0       | 0.0    | 0.0      | 0.0     | 0        | 0      | 1.000  |            |
|  DMC 3857 | 7941   | 0    | 0    | 0       | 0.0    | 0.0      | 0.0     | 0        | 0      | 3.000  |            |
|  DMC 3858 | 9976   | 0    | 0    | 0       | 0.0    | 0.0      | 0.0     | 0        | 0      | 3.000  |            |
|  DMC 3860 | 4527   | 0    | 0    | 0       | 0.0    | 0.0      | 0.0     | 0        | 0      | 2.000  |            |
|  DMC 3861 | 6455   | 0    | 0    | 0       | 0.0    | 0.0      | 0.0     | 0        | 0      | 2.000  |            |
|  DMC 3865 | 35125  | 0    | 0    | 0       | 0.0    | 0.0      | 0.0     | 0        | 0      | 10.000 |            |





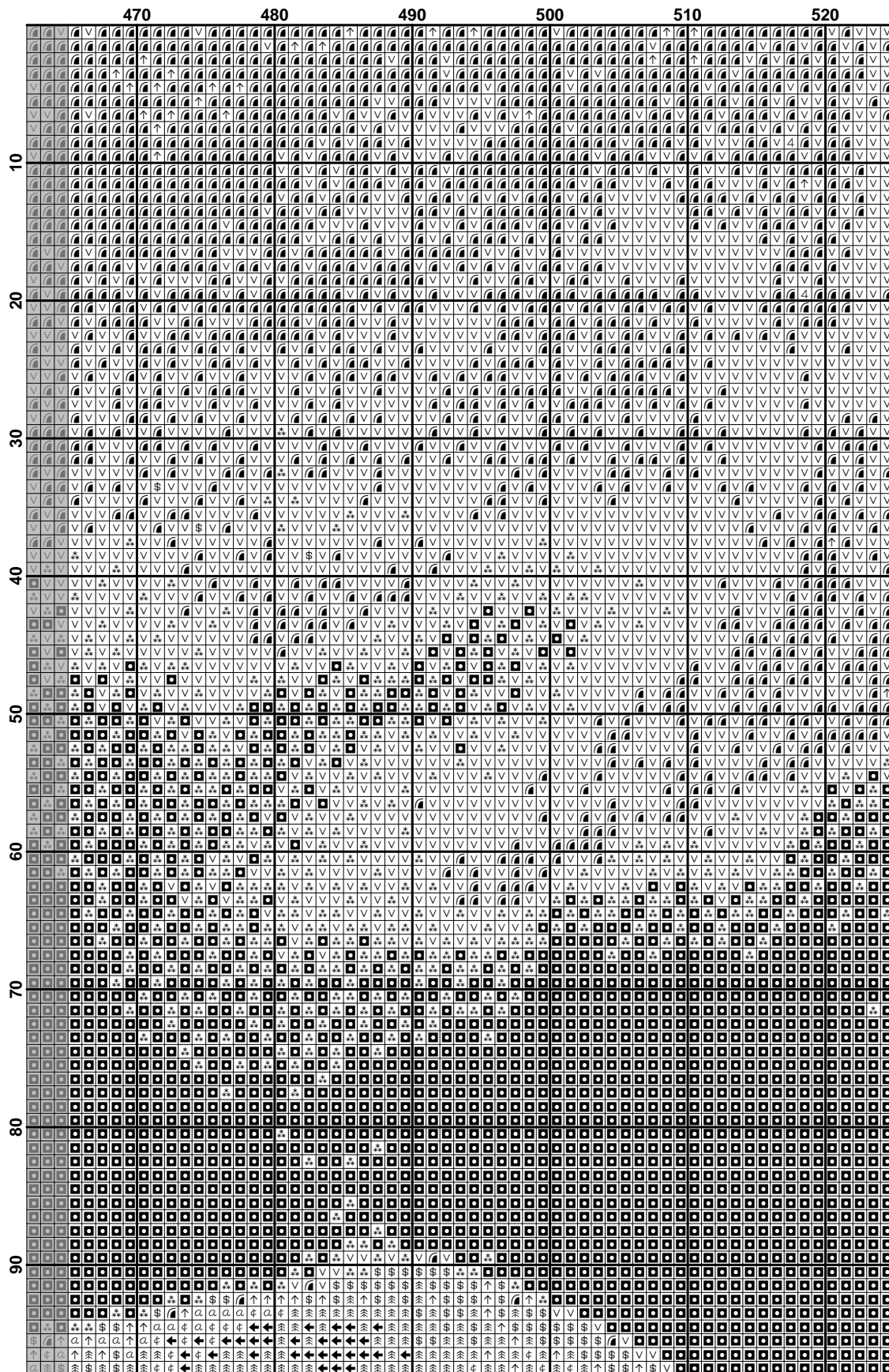


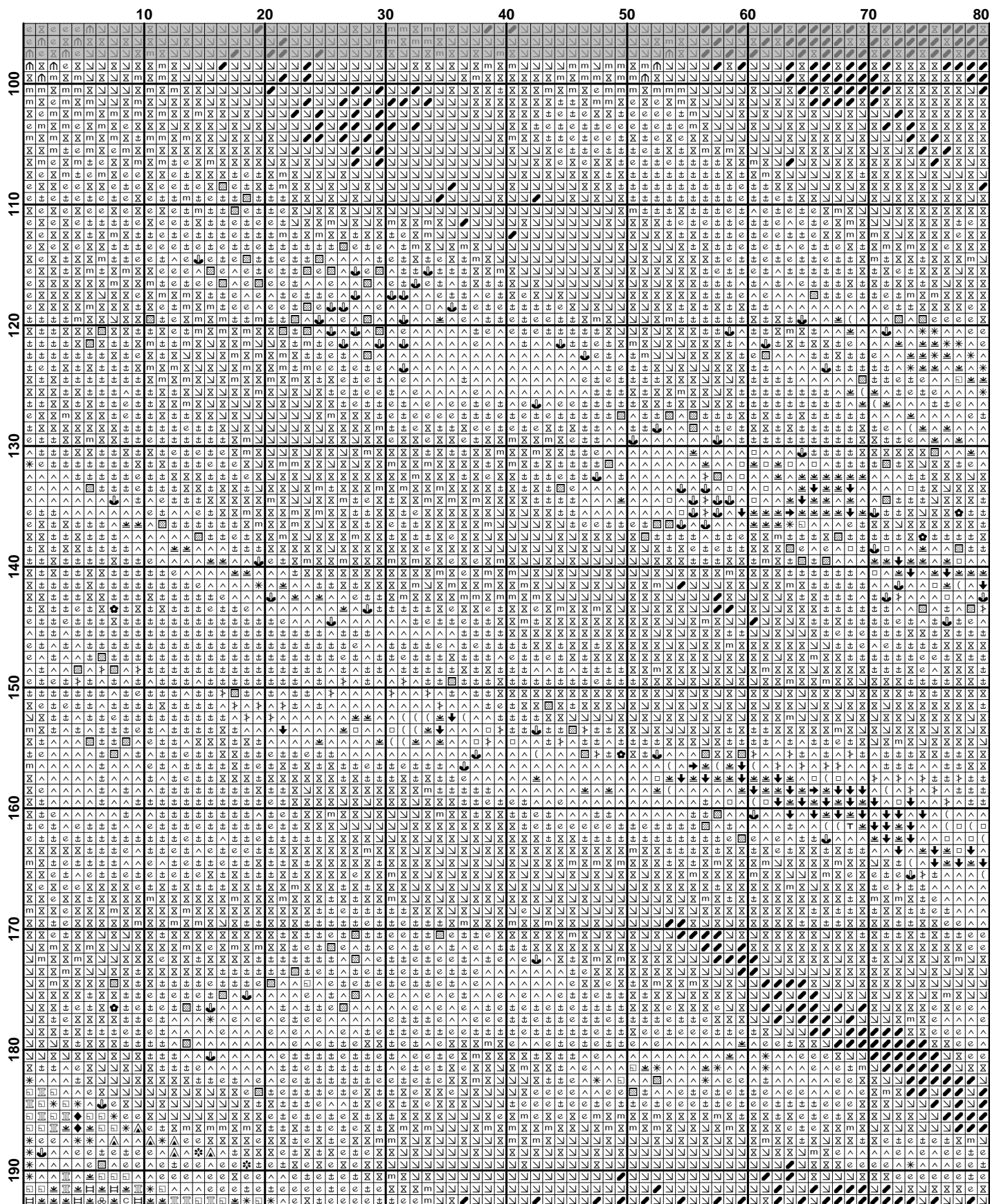


|    | 240 |  |  |  |  |  |  |  |  |  | 250 |  |  |  |  |  |  |  |  |  | 260 |  |  |  |  |  |  |  |  |  | 270 |  |  |  |  |  |  |  |  |  | 280 |  |  |  |  |  |  |  |  |  | 290 |  |  |  |  |  |  |  |  |  | 300 |  |  |  |  |  |  |  |  |  | 310 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 10 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

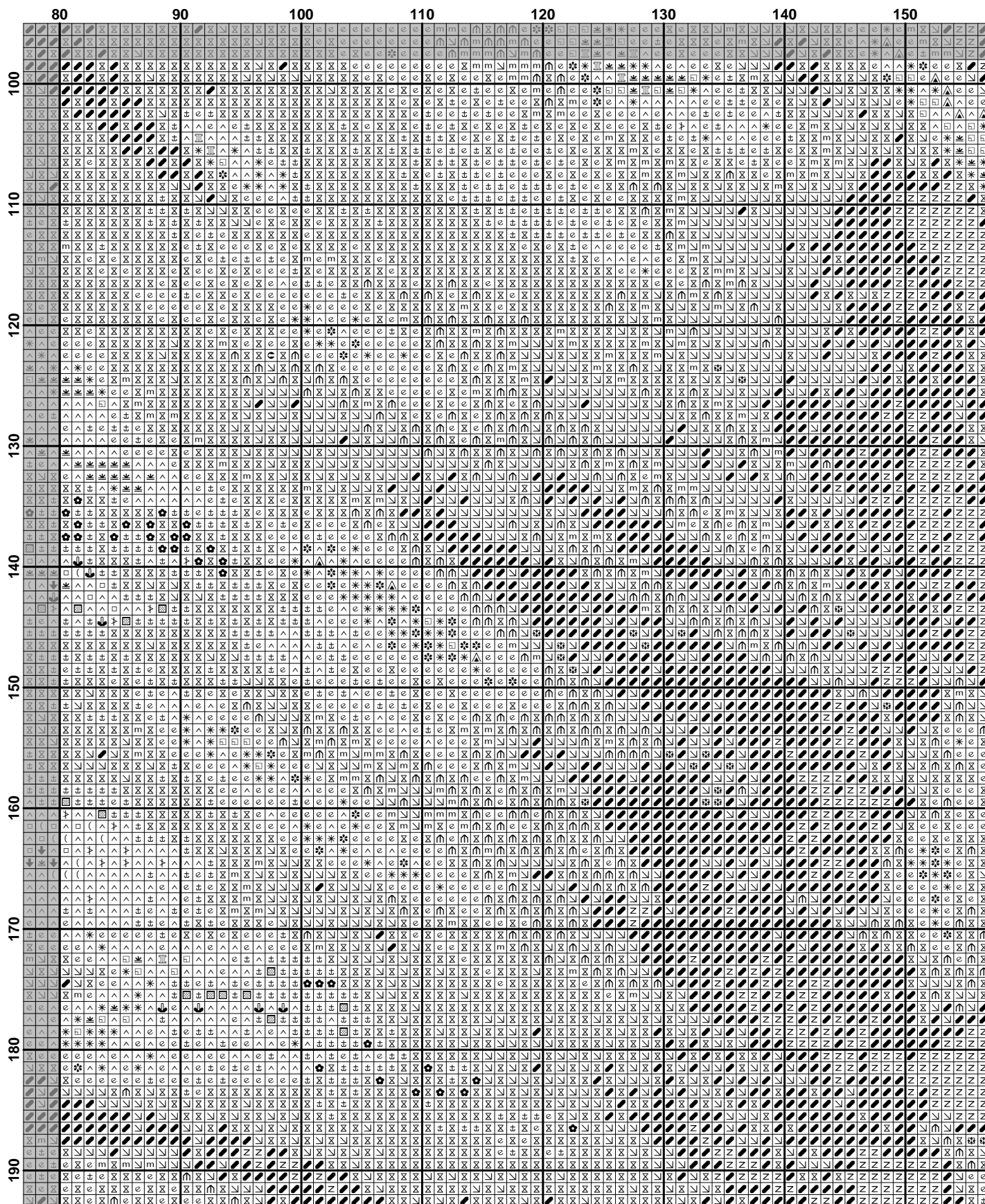
|    | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 |     |     |     |     |     |     |     |     |
| 20 |     |     |     |     |     |     |     |     |
| 30 |     |     |     |     |     |     |     |     |
| 40 |     |     |     |     |     |     |     |     |
| 50 |     |     |     |     |     |     |     |     |
| 60 |     |     |     |     |     |     |     |     |
| 70 |     |     |     |     |     |     |     |     |
| 80 |     |     |     |     |     |     |     |     |
| 90 |     |     |     |     |     |     |     |     |

$$(13) \quad \mathcal{H}^{\text{reg}}_{\text{reg}} = \mathcal{H}^{\text{reg}}_{\text{reg}} \quad (14)$$



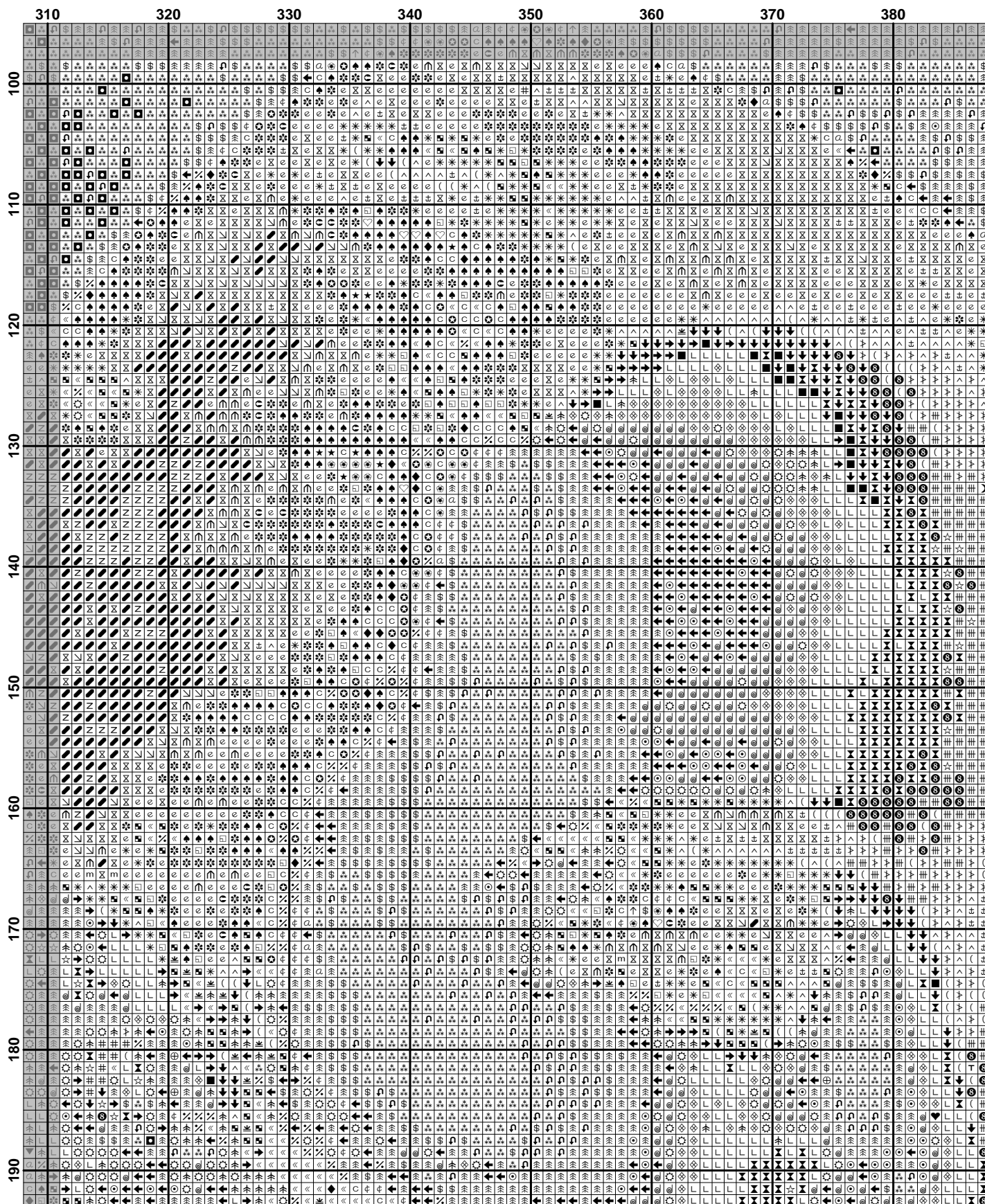




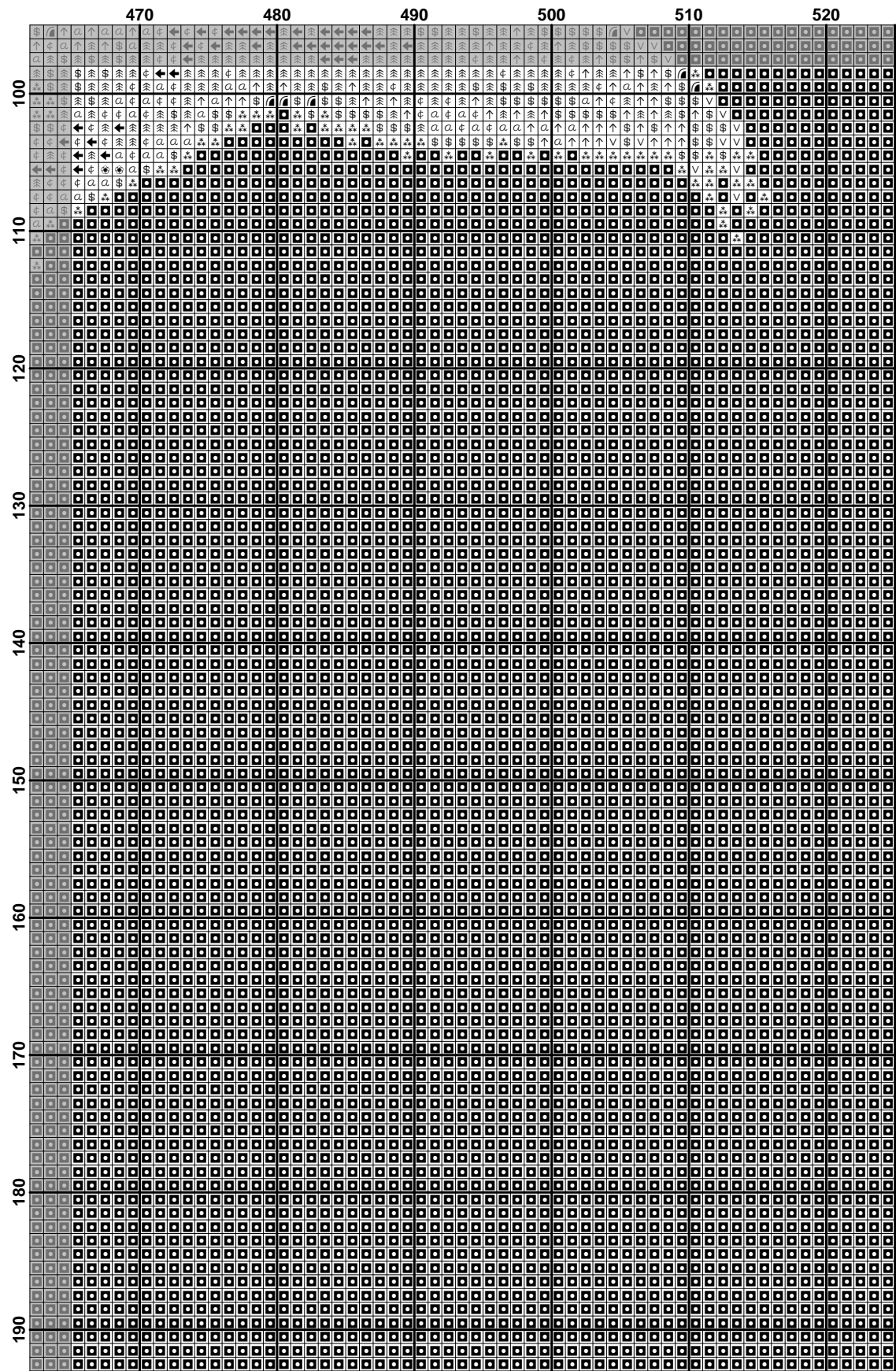


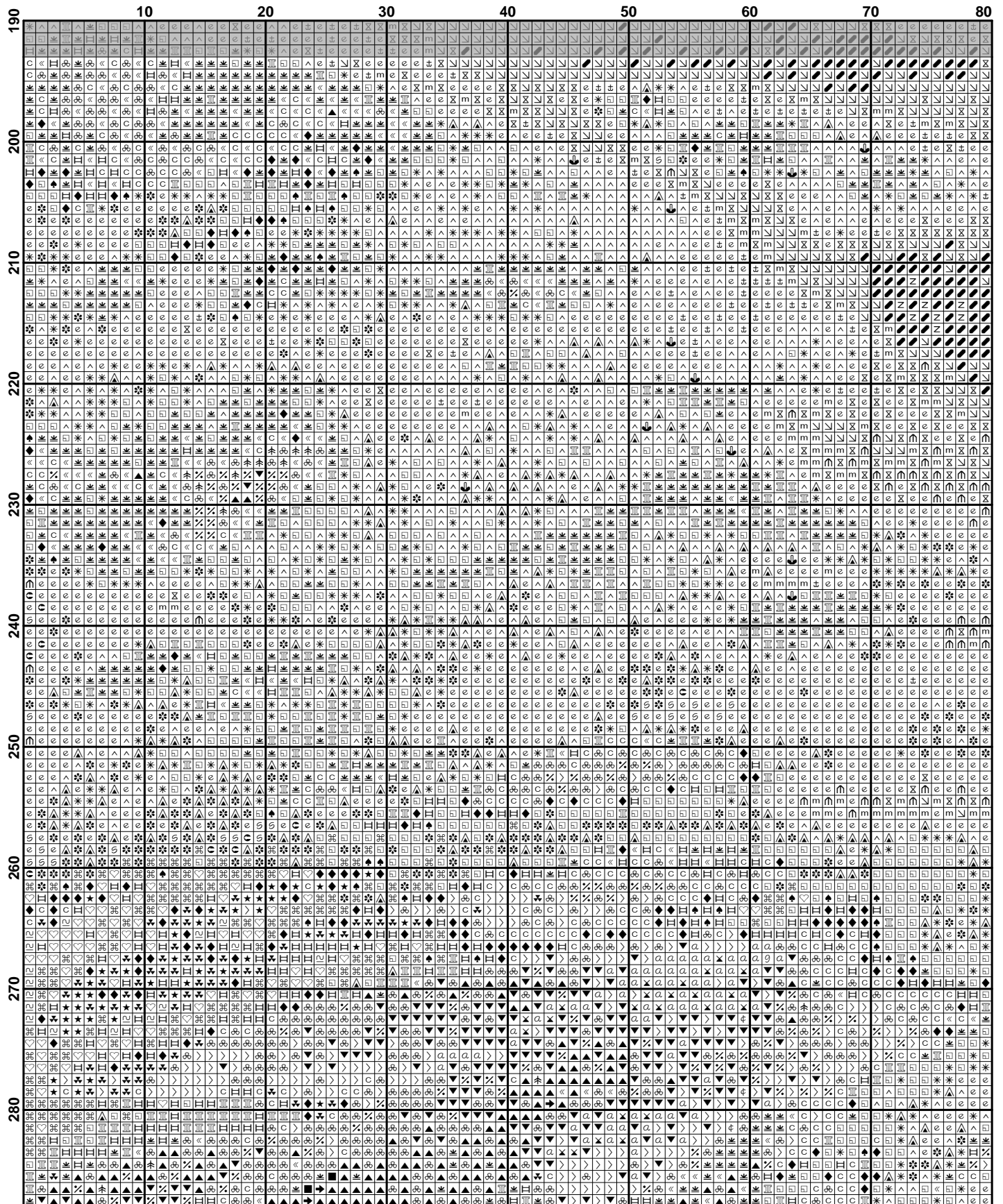
|     | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 100 | z   | z   | z   | z   | z   | z   | z   | z   |
| 110 | z   | z   | z   | z   | z   | z   | z   | z   |
| 120 | z   | z   | z   | z   | z   | z   | z   | z   |
| 130 | z   | z   | z   | z   | z   | z   | z   | z   |
| 140 | z   | z   | z   | z   | z   | z   | z   | z   |
| 150 | z   | z   | z   | z   | z   | z   | z   | z   |
| 160 | z   | z   | z   | z   | z   | z   | z   | z   |
| 170 | z   | z   | z   | z   | z   | z   | z   | z   |
| 180 | z   | z   | z   | z   | z   | z   | z   | z   |
| 190 | z   | z   | z   | z   | z   | z   | z   | z   |

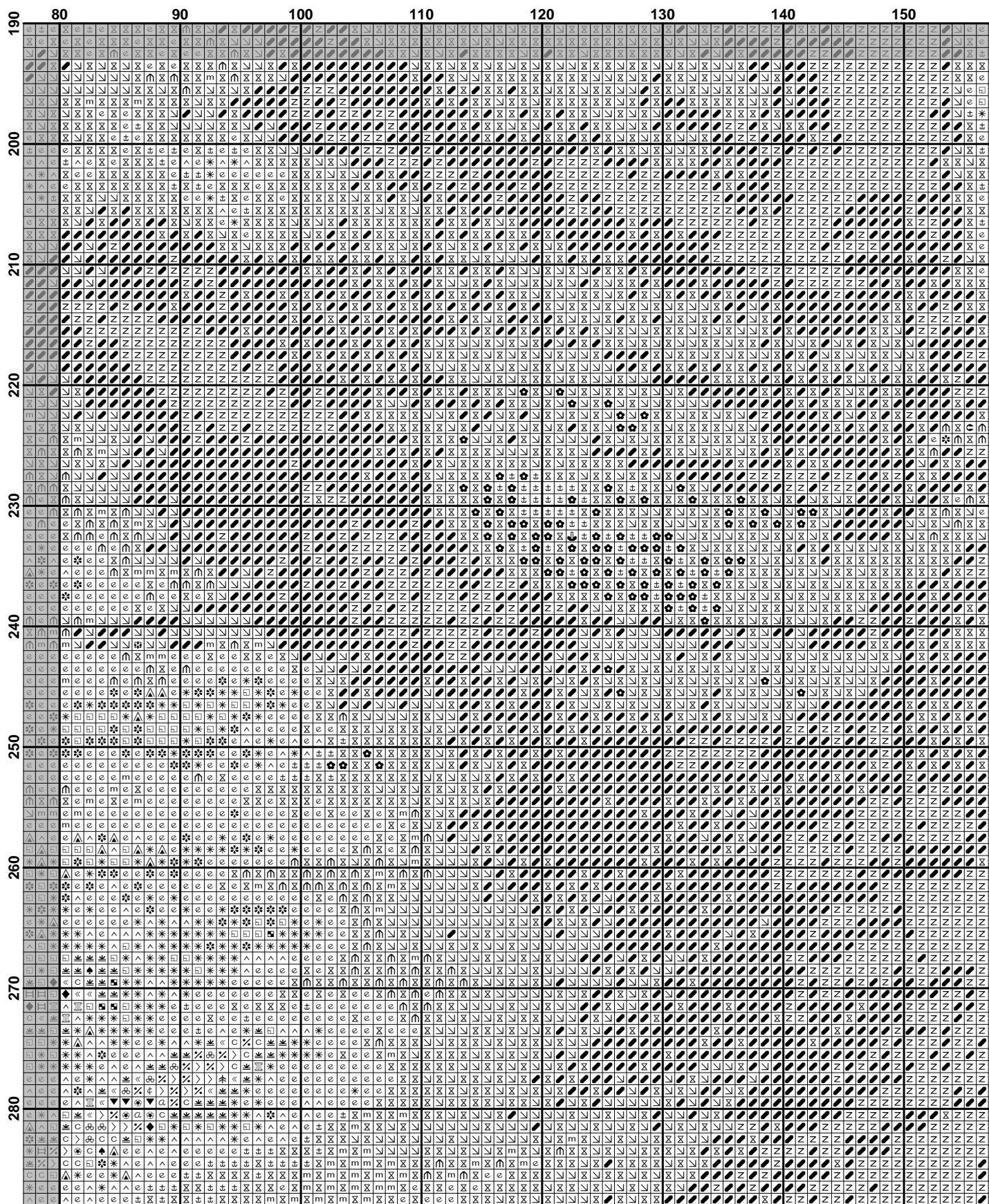
|     | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 100 | +   | +   | +   | +   | +   | +   | +   | +   |
| 110 | +   | +   | +   | +   | +   | +   | +   | +   |
| 120 | +   | +   | +   | +   | +   | +   | +   | +   |
| 130 | +   | +   | +   | +   | +   | +   | +   | +   |
| 140 | +   | +   | +   | +   | +   | +   | +   | +   |
| 150 | +   | +   | +   | +   | +   | +   | +   | +   |
| 160 | +   | +   | +   | +   | +   | +   | +   | +   |
| 170 | +   | +   | +   | +   | +   | +   | +   | +   |
| 180 | +   | +   | +   | +   | +   | +   | +   | +   |
| 190 | +   | +   | +   | +   | +   | +   | +   | +   |



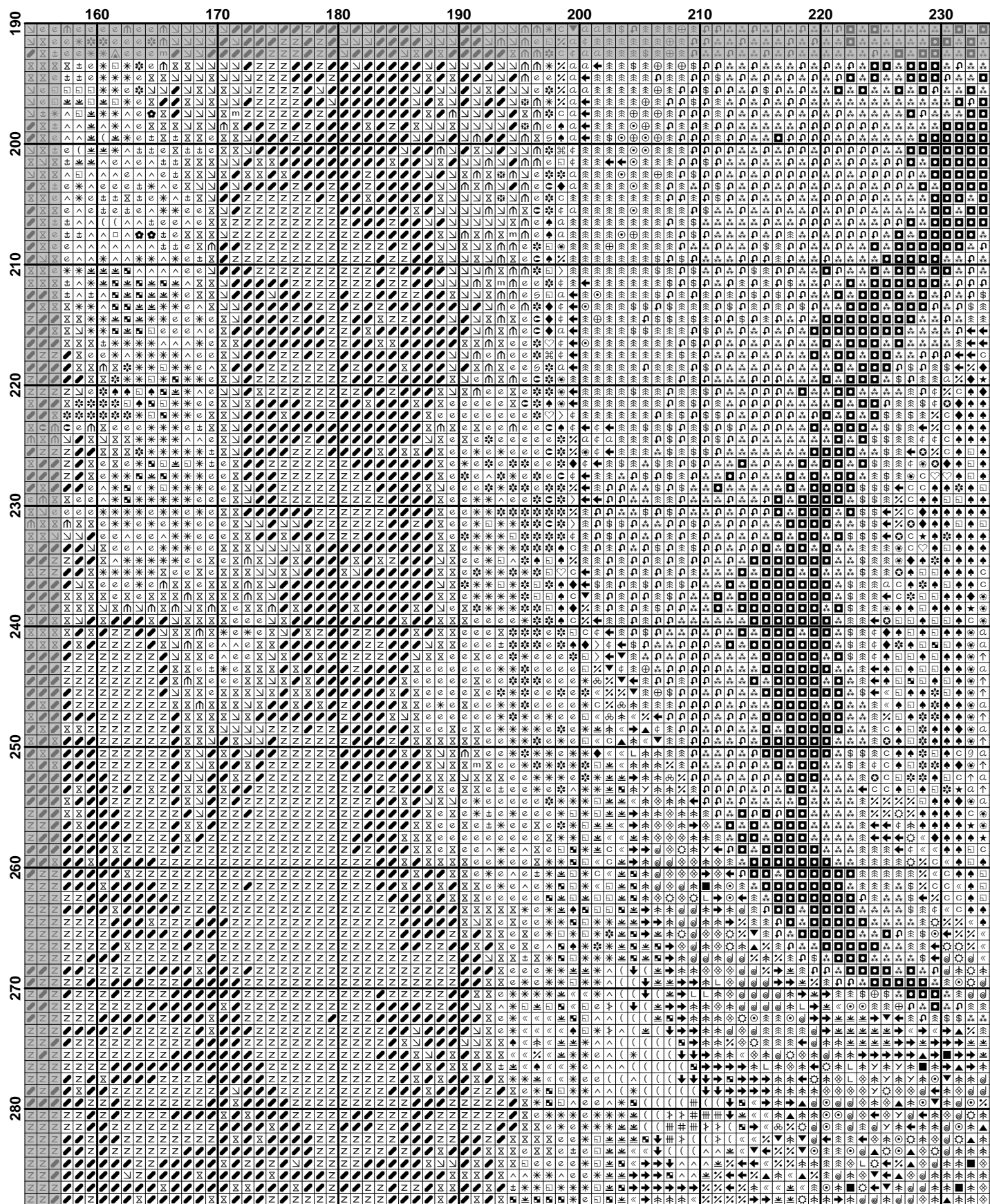
|     | 390 | 400 | 410 | 420 | 430 | 440 | 450 | 460 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 100 |     |     |     |     |     |     |     |     |
| 110 |     |     |     |     |     |     |     |     |
| 120 |     |     |     |     |     |     |     |     |
| 130 |     |     |     |     |     |     |     |     |
| 140 |     |     |     |     |     |     |     |     |
| 150 |     |     |     |     |     |     |     |     |
| 160 |     |     |     |     |     |     |     |     |
| 170 |     |     |     |     |     |     |     |     |
| 180 |     |     |     |     |     |     |     |     |
| 190 |     |     |     |     |     |     |     |     |



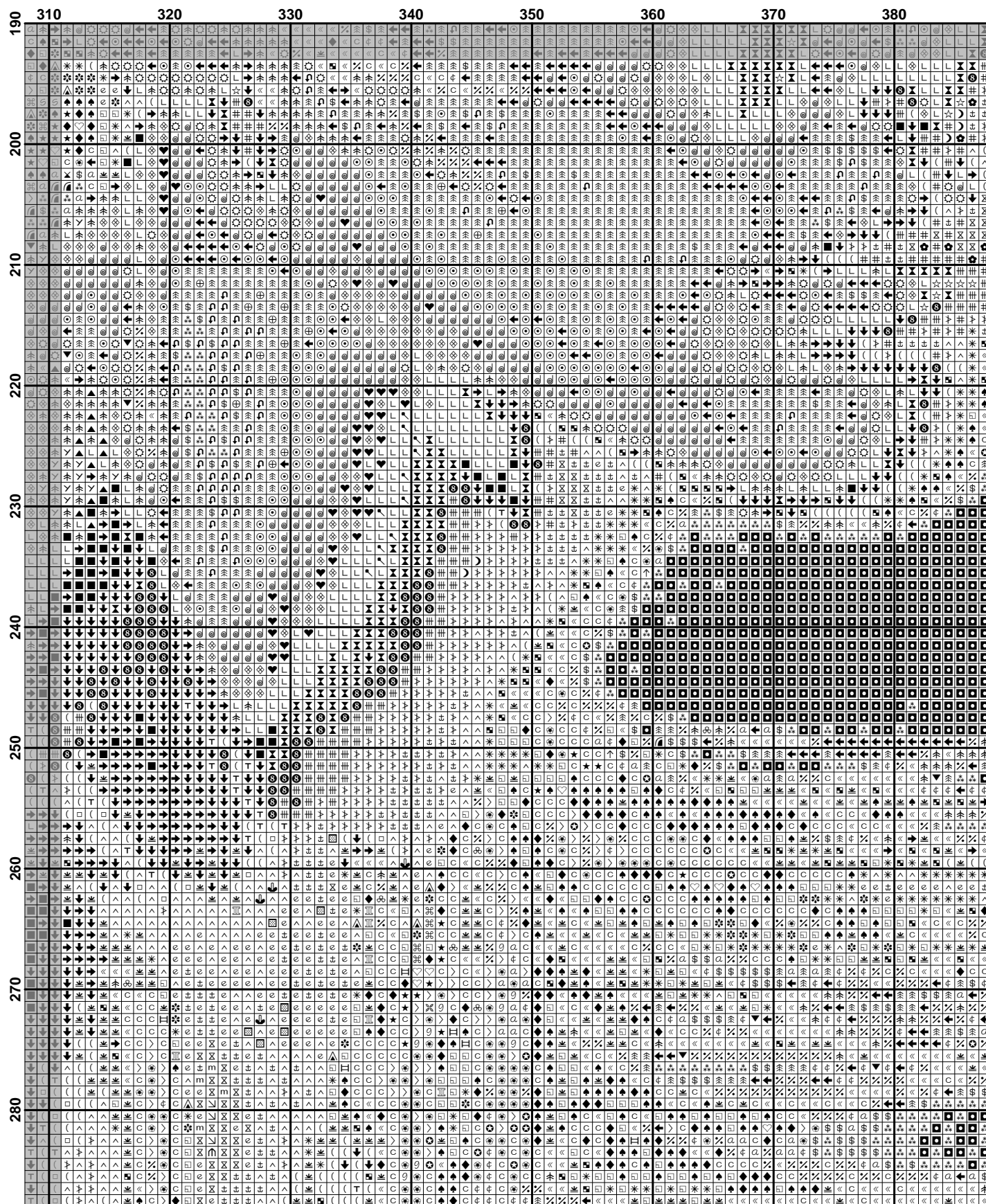




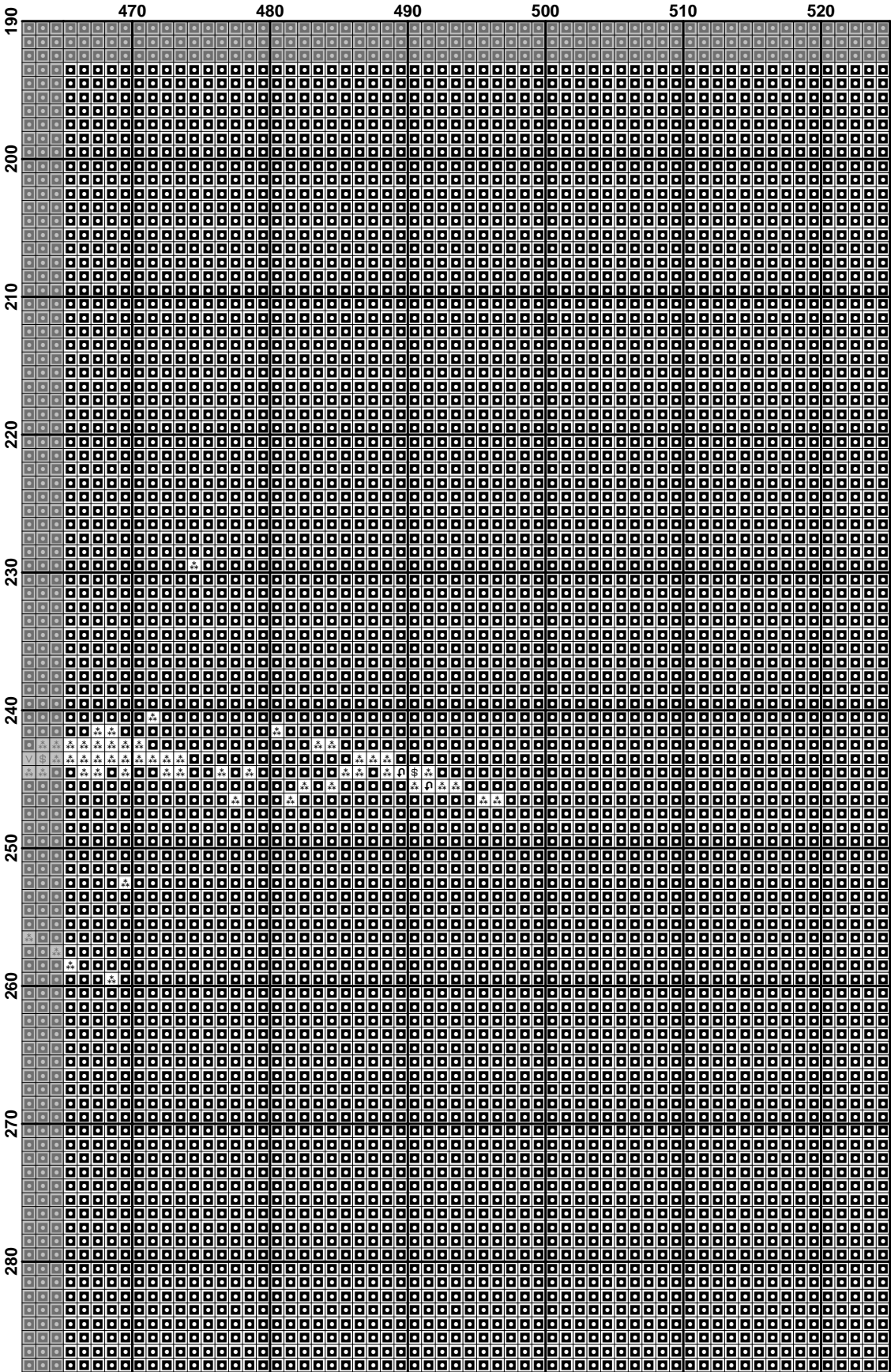


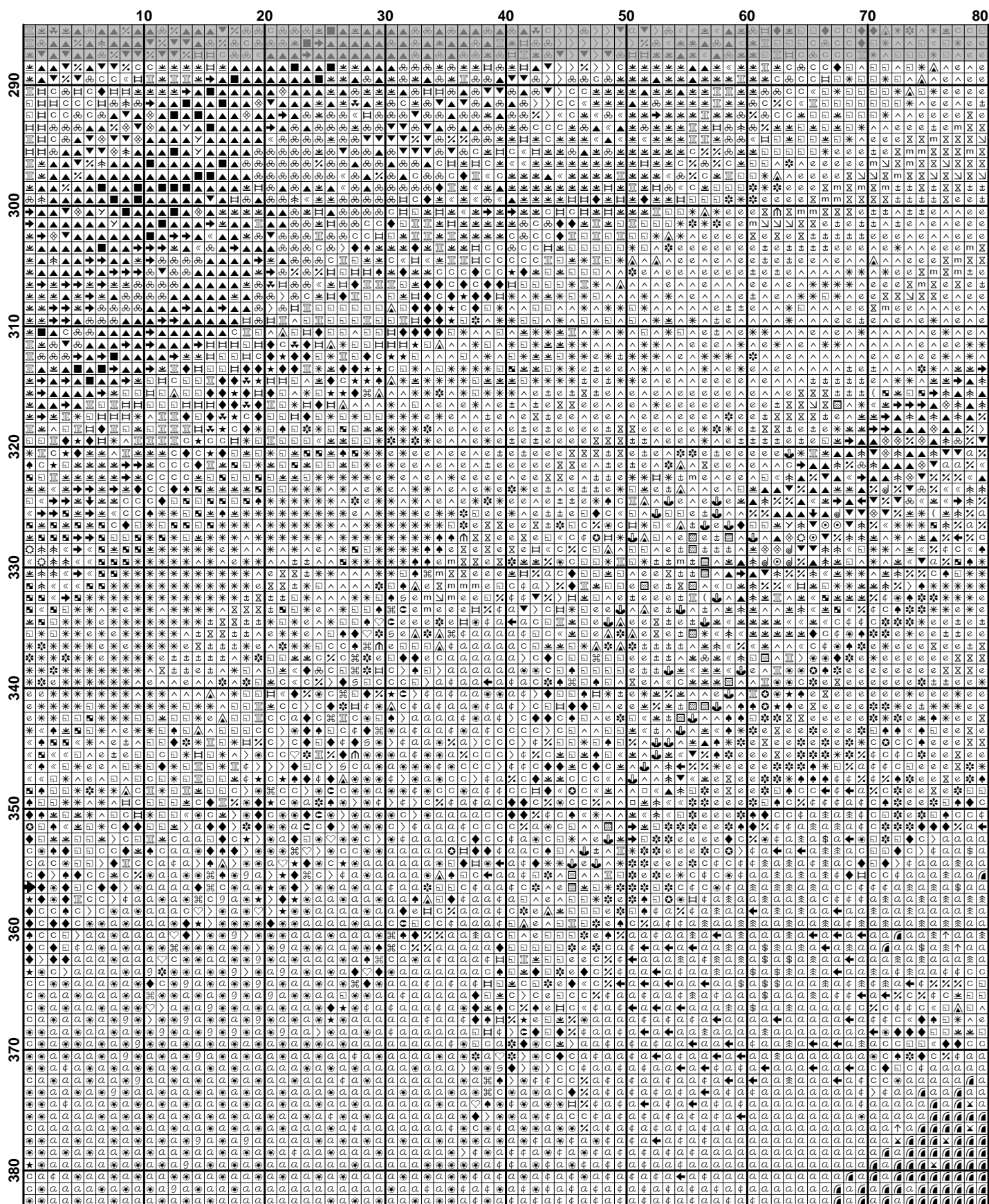


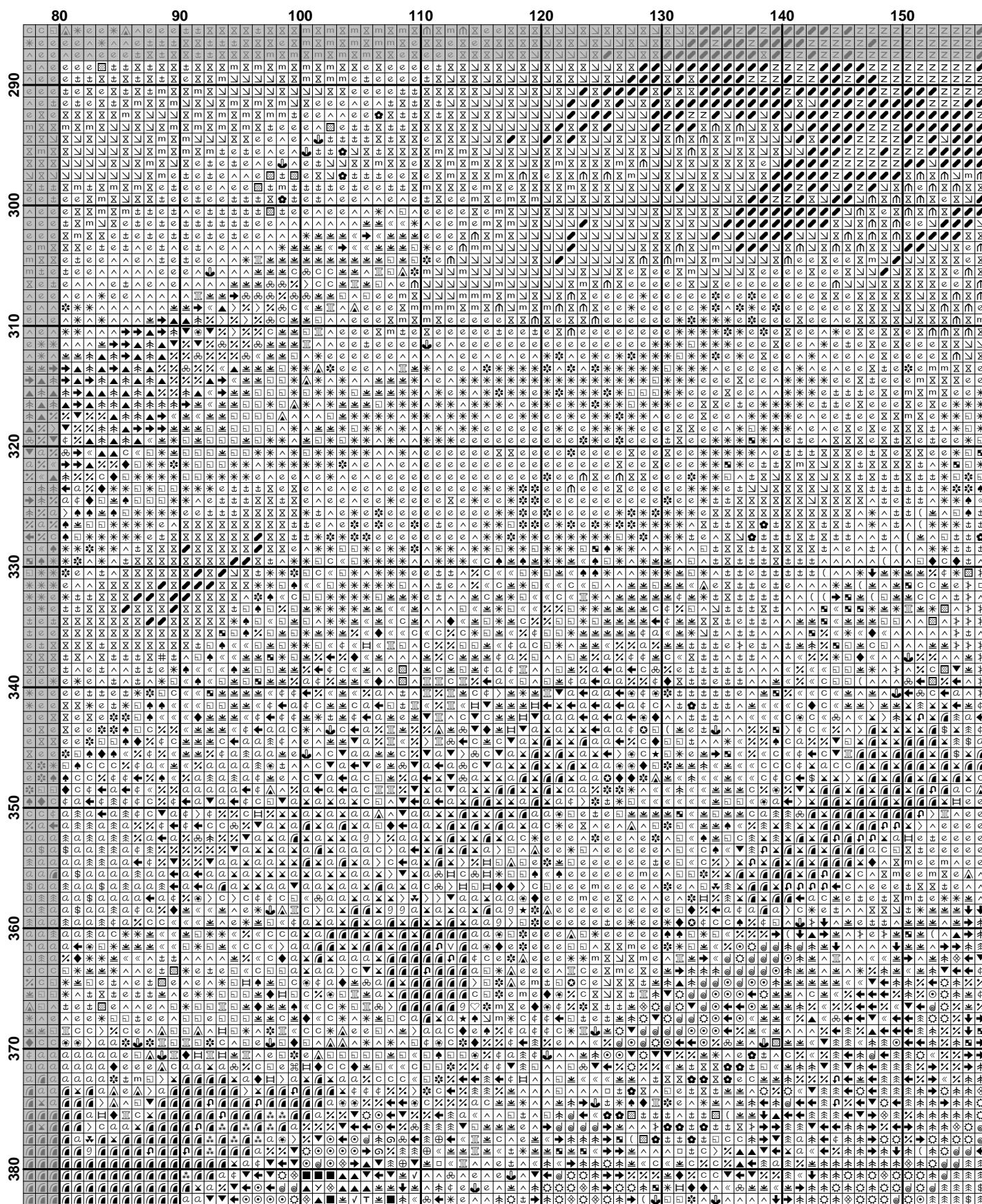
[illegible]

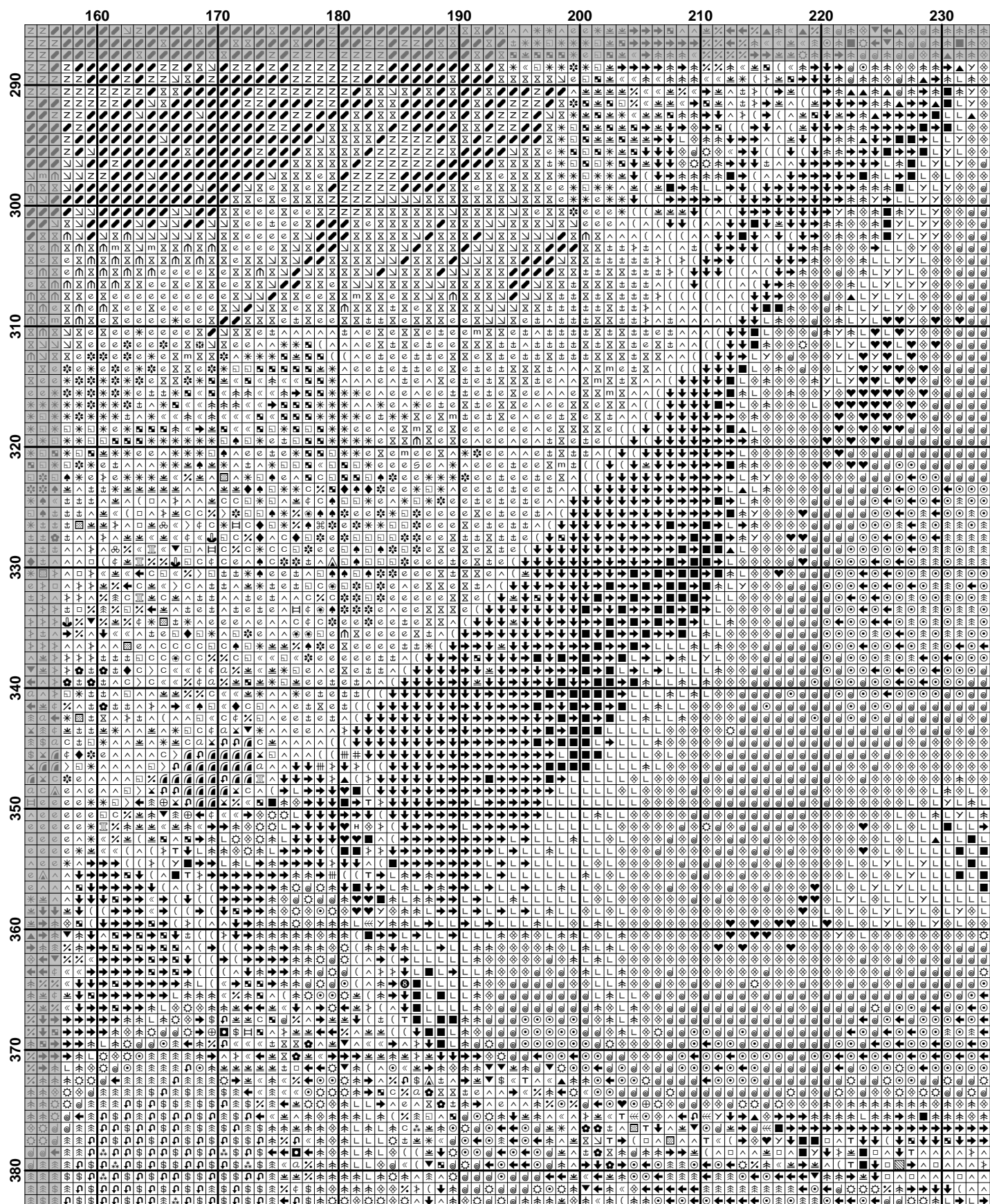


|     | 390 | 400 | 410 | 420 | 430 | 440 | 450 | 460 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 190 |     |     |     |     |     |     |     |     |
| 200 |     |     |     |     |     |     |     |     |
| 210 |     |     |     |     |     |     |     |     |
| 220 |     |     |     |     |     |     |     |     |
| 230 |     |     |     |     |     |     |     |     |
| 240 |     |     |     |     |     |     |     |     |
| 250 |     |     |     |     |     |     |     |     |
| 260 |     |     |     |     |     |     |     |     |
| 270 |     |     |     |     |     |     |     |     |
| 280 |     |     |     |     |     |     |     |     |

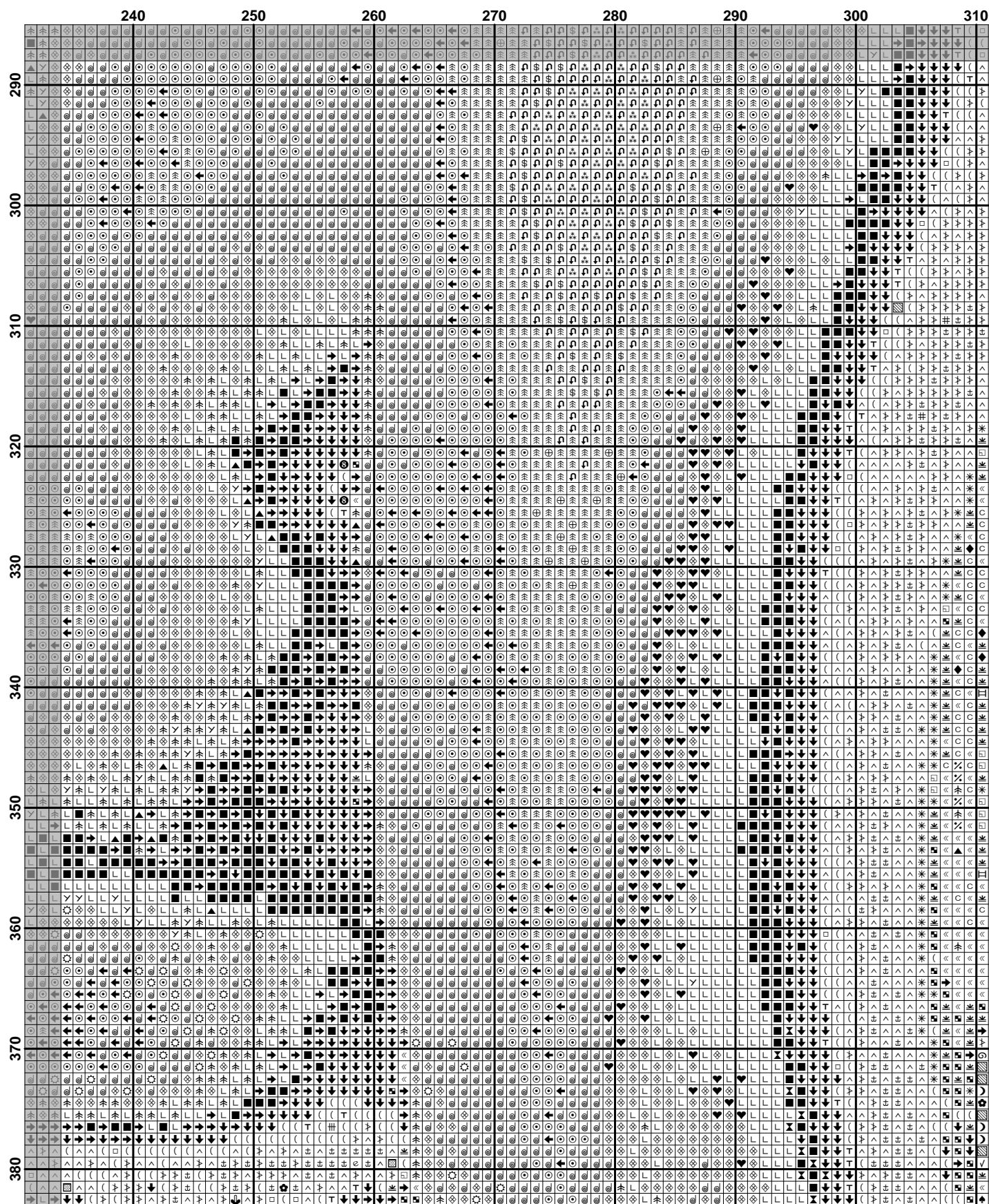


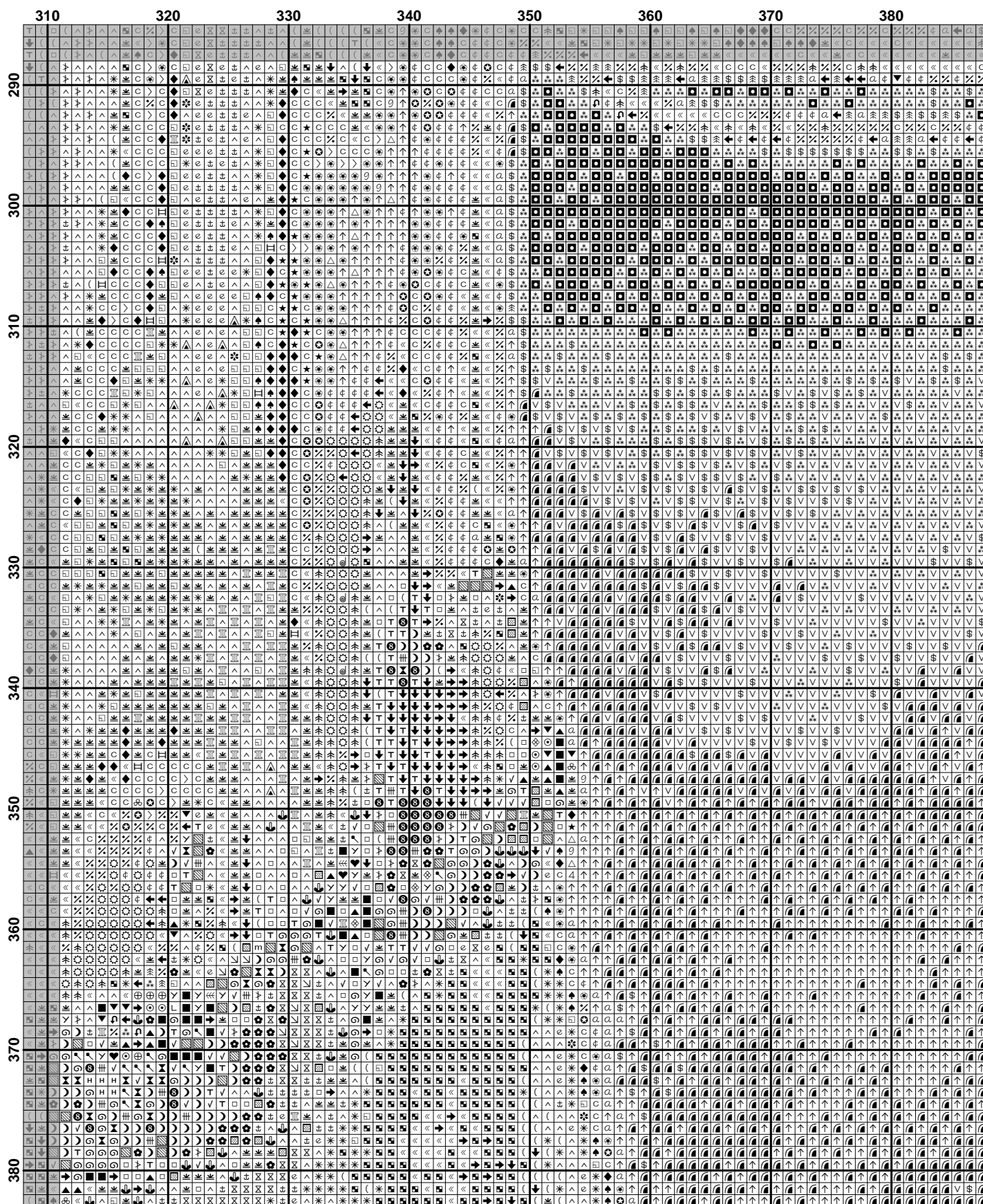


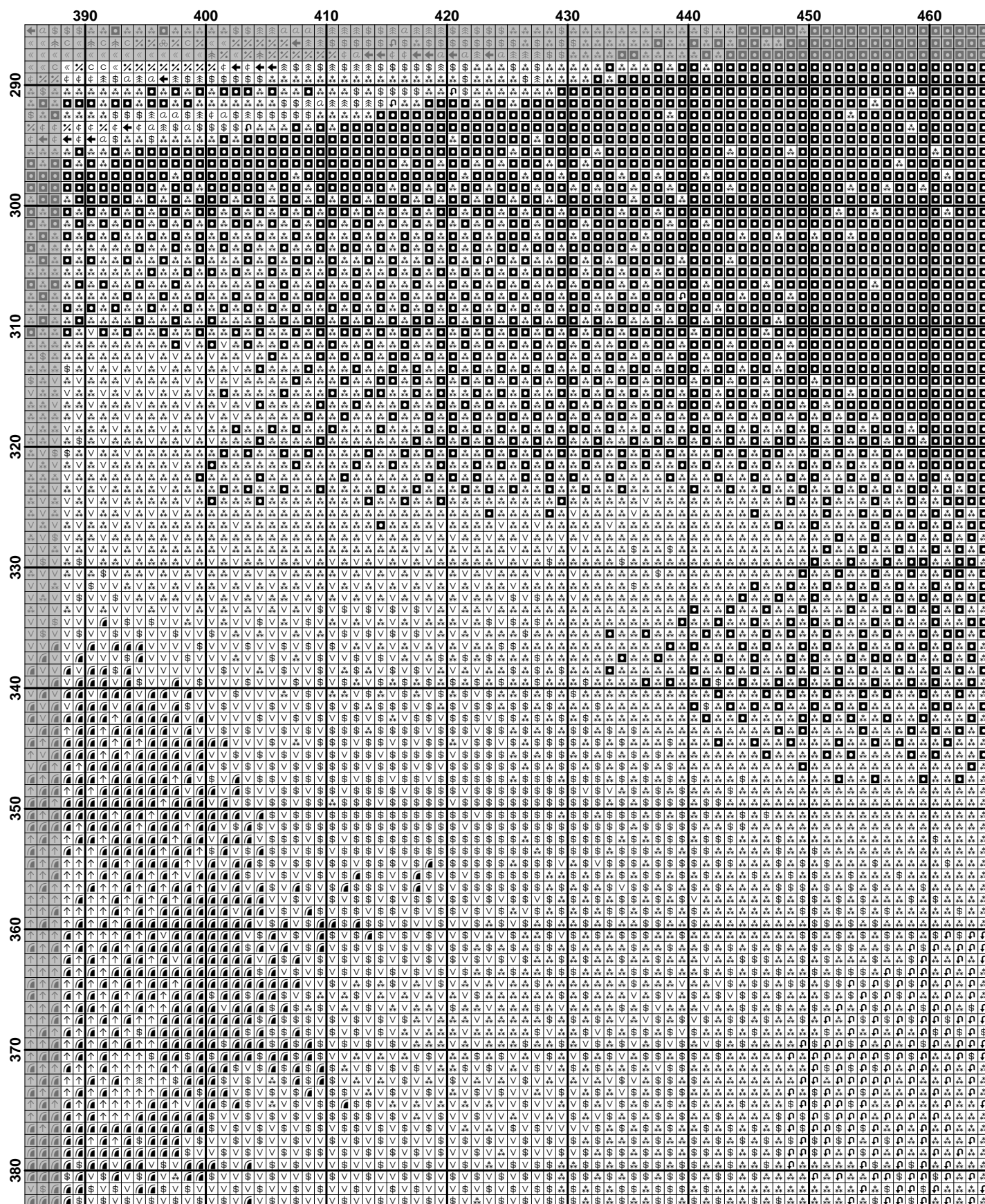


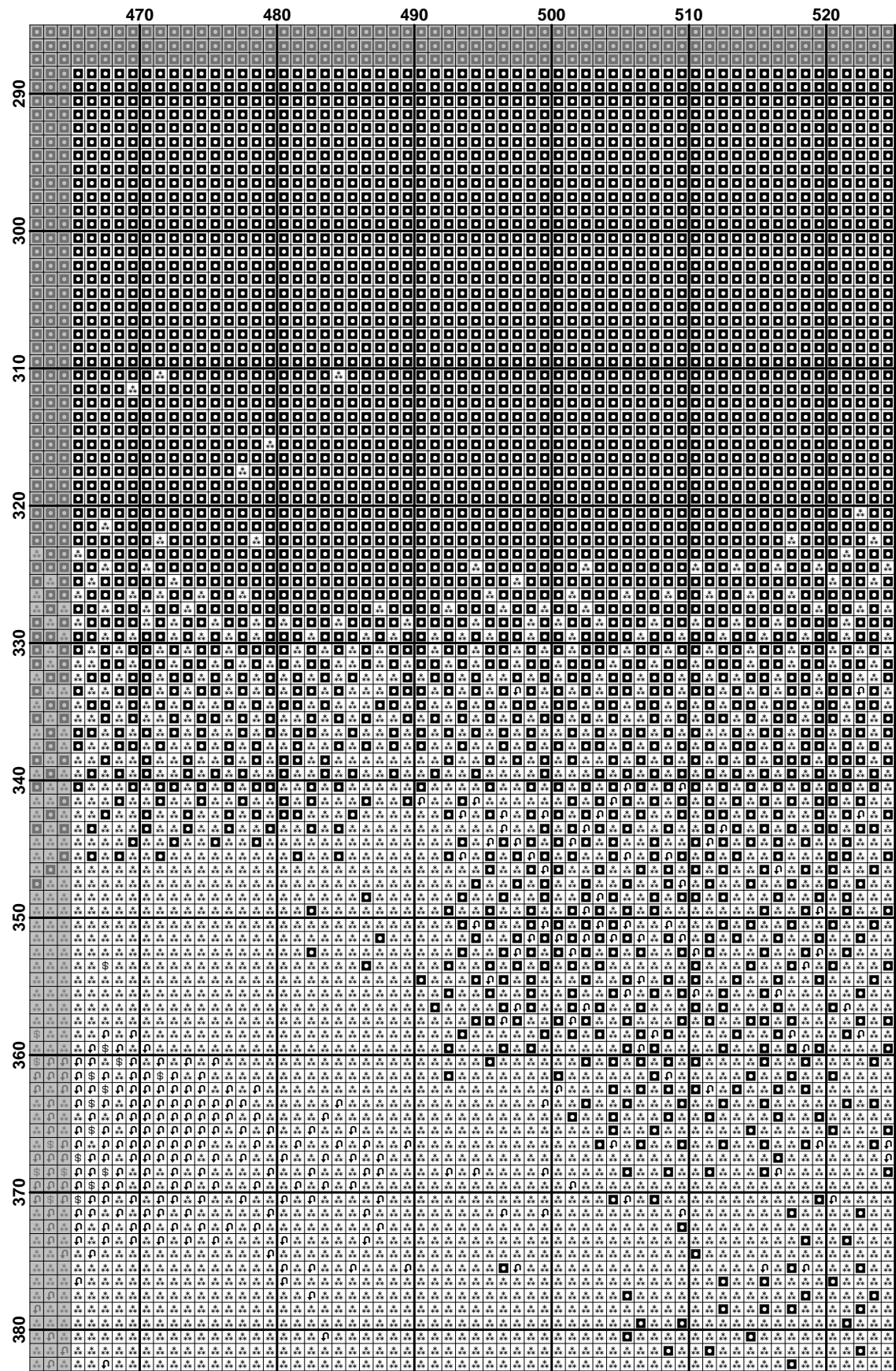


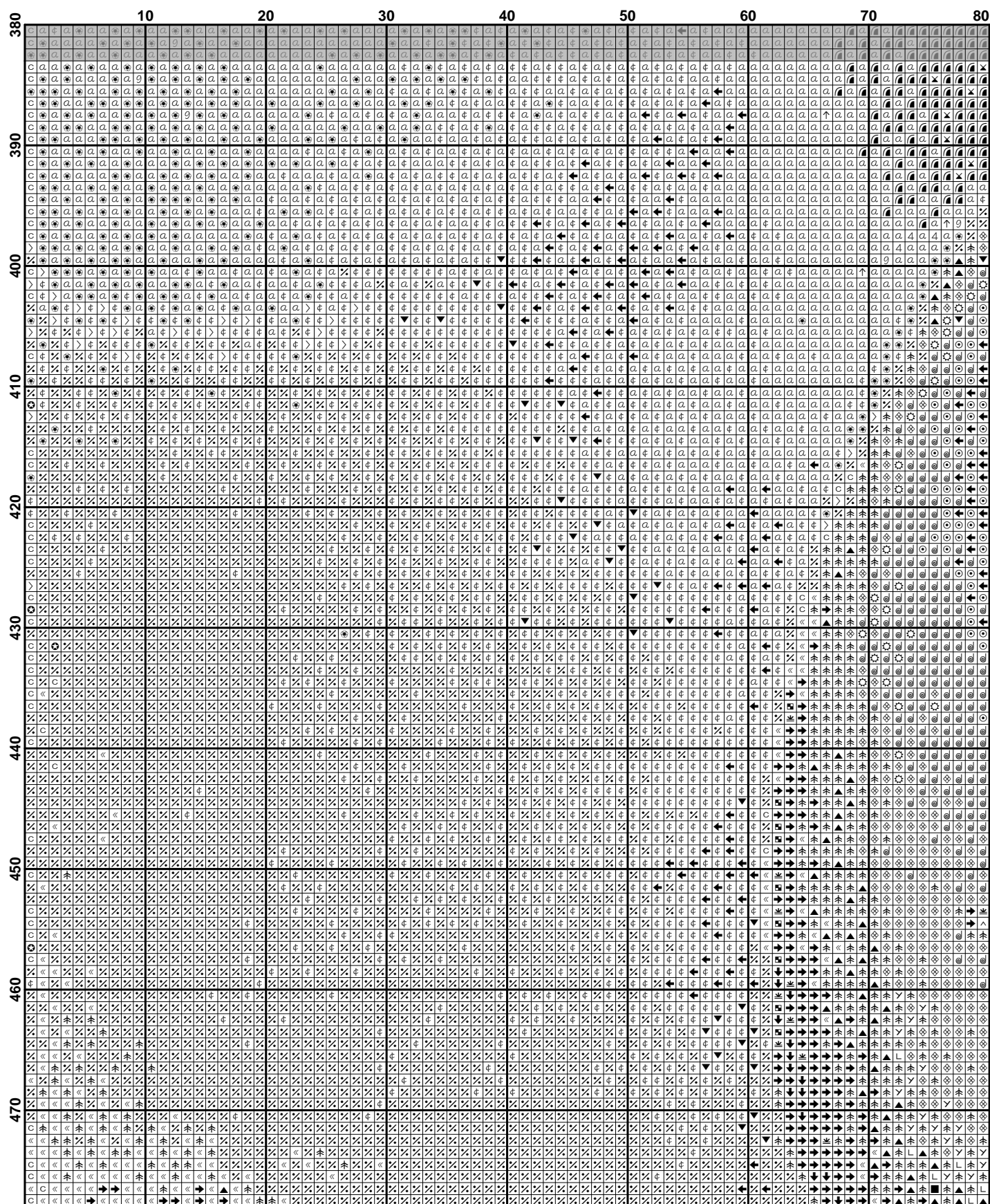


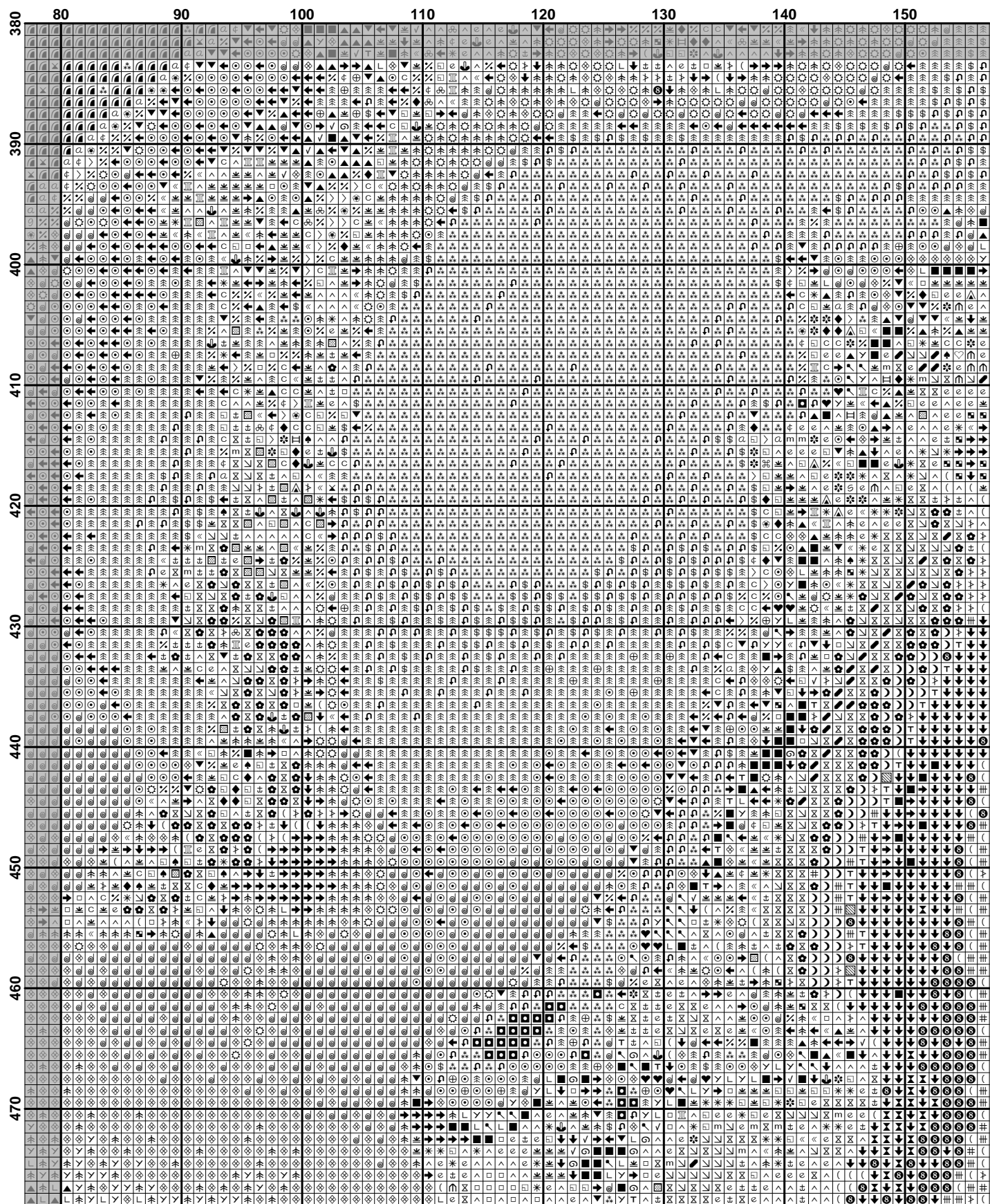


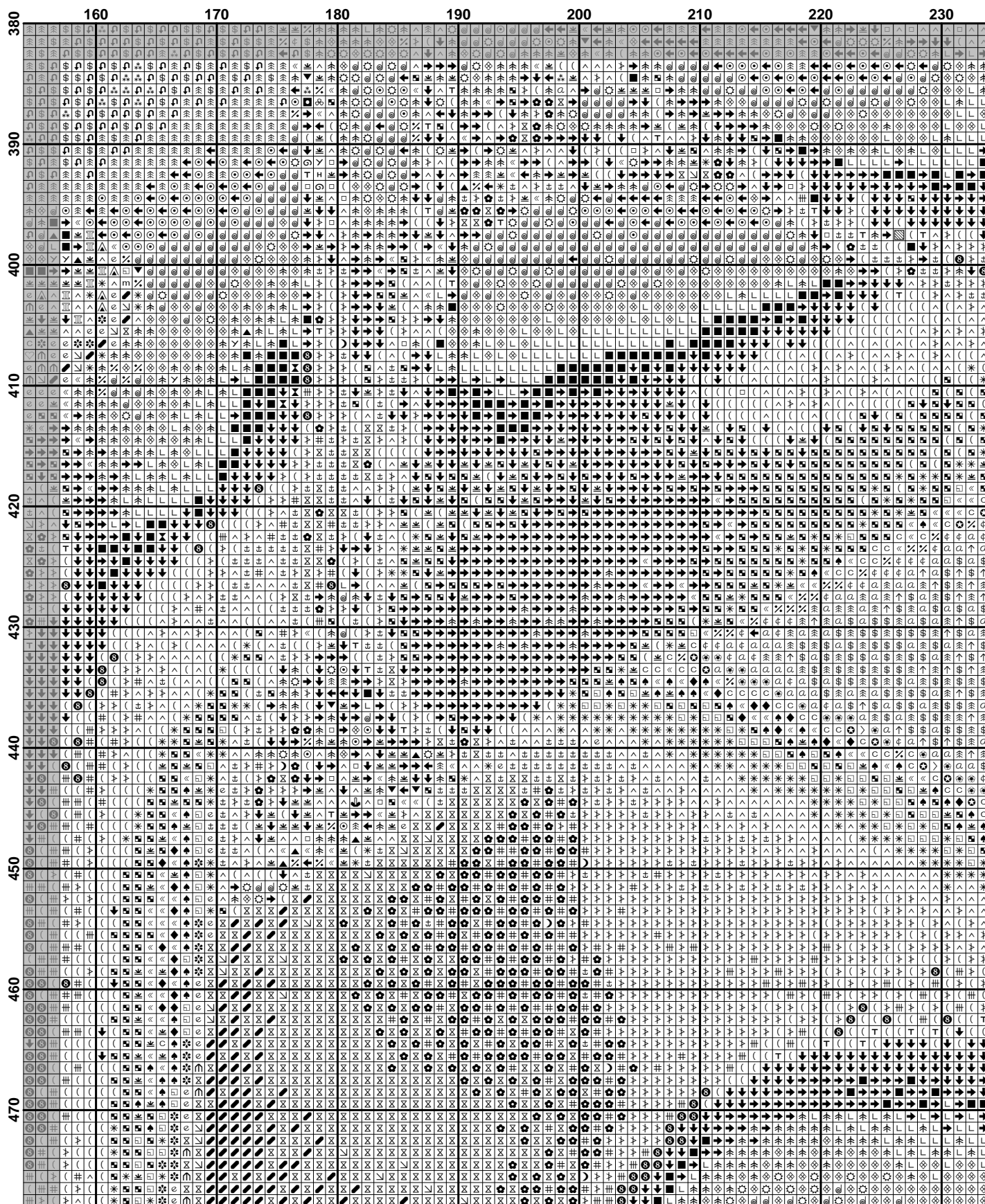








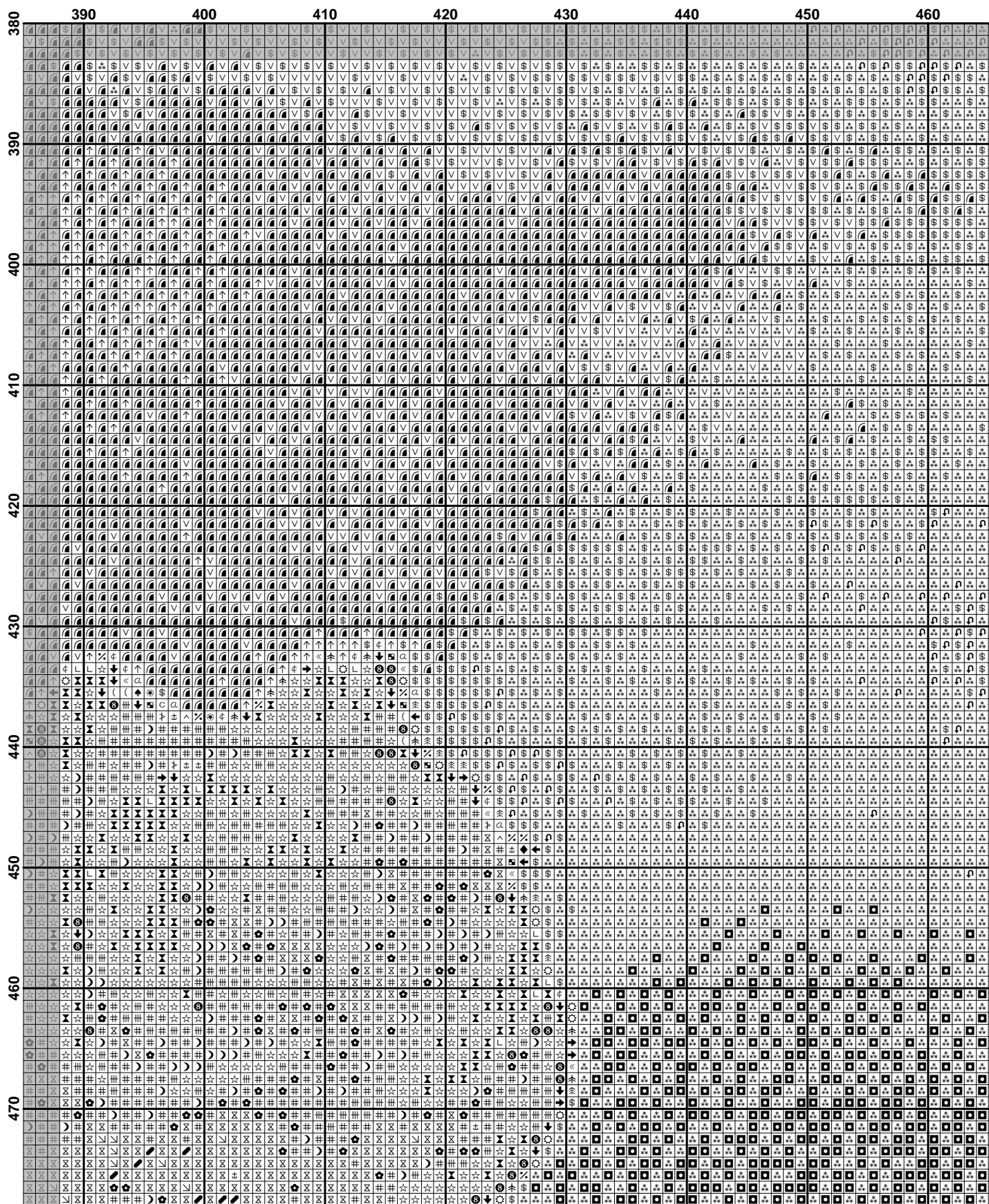




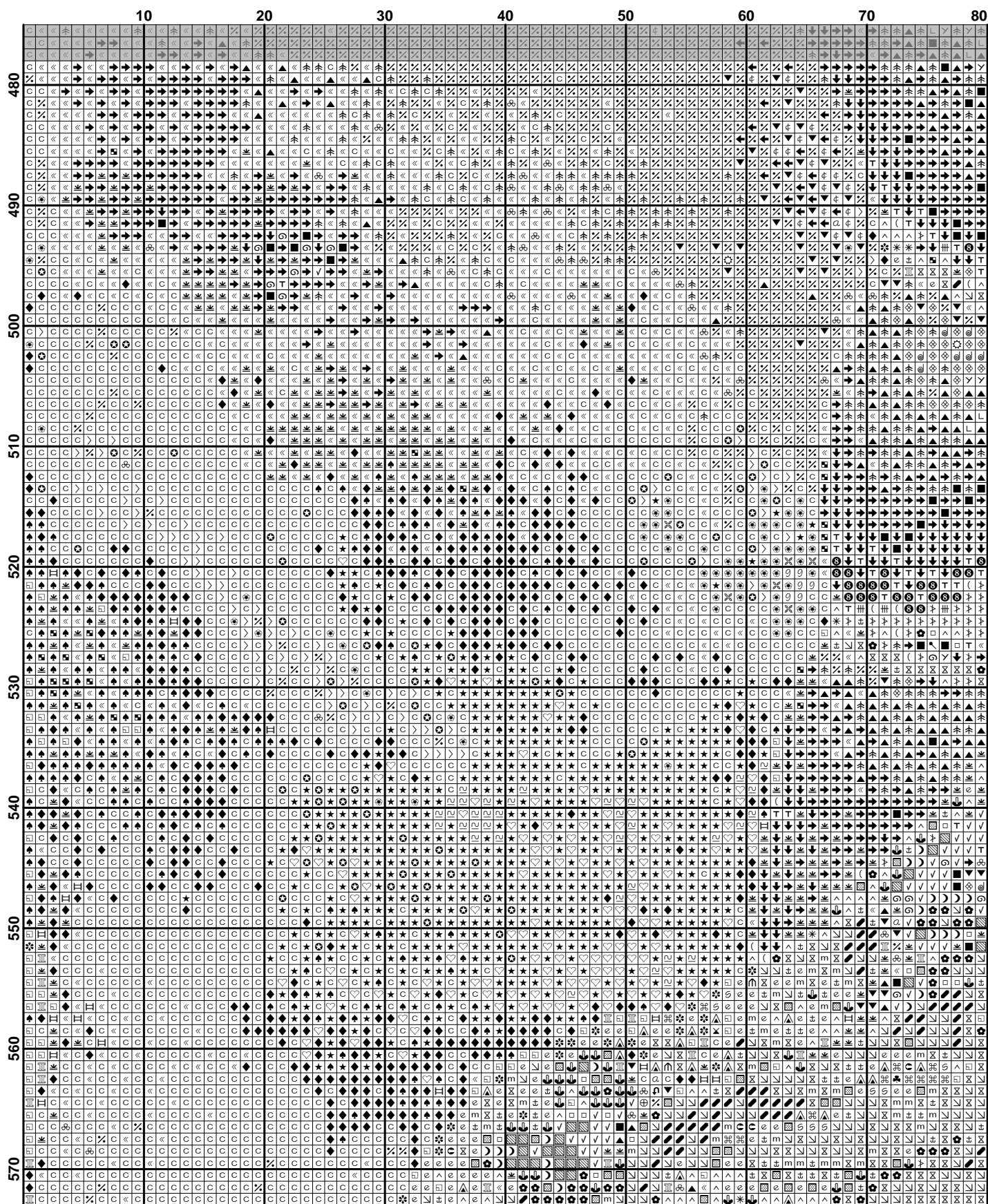
|     | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 380 | ... | ... | ... | ... | ... | ... | ... | ... |
| 390 | ... | ... | ... | ... | ... | ... | ... | ... |
| 400 | ... | ... | ... | ... | ... | ... | ... | ... |
| 410 | ... | ... | ... | ... | ... | ... | ... | ... |
| 420 | ... | ... | ... | ... | ... | ... | ... | ... |
| 430 | ... | ... | ... | ... | ... | ... | ... | ... |
| 440 | ... | ... | ... | ... | ... | ... | ... | ... |
| 450 | ... | ... | ... | ... | ... | ... | ... | ... |
| 460 | ... | ... | ... | ... | ... | ... | ... | ... |
| 470 | ... | ... | ... | ... | ... | ... | ... | ... |

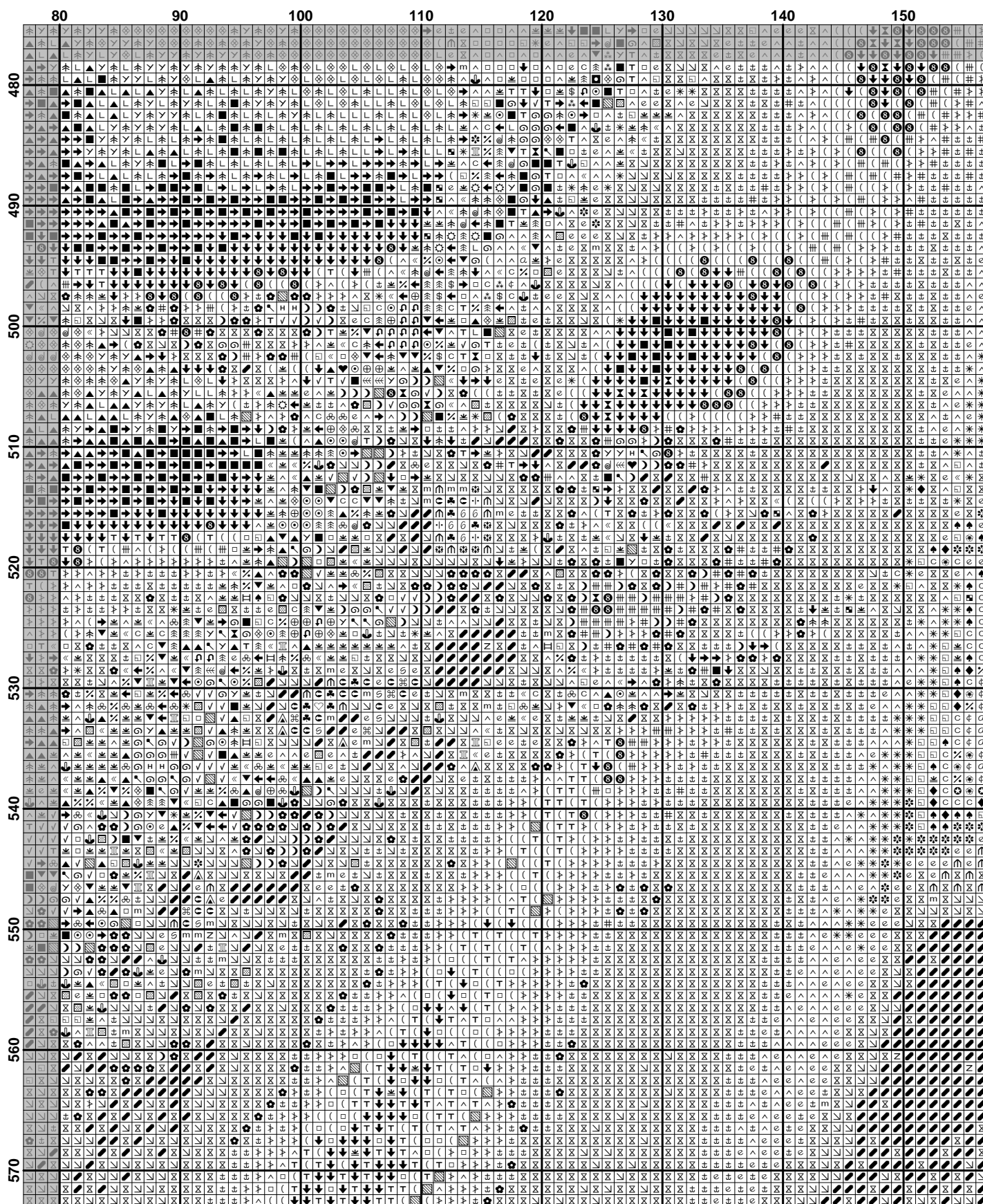


|     | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 380 | ... | ... | ... | ... | ... | ... | ... | ... |
| 390 | ... | ... | ... | ... | ... | ... | ... | ... |
| 400 | ... | ... | ... | ... | ... | ... | ... | ... |
| 410 | ... | ... | ... | ... | ... | ... | ... | ... |
| 420 | ... | ... | ... | ... | ... | ... | ... | ... |
| 430 | ... | ... | ... | ... | ... | ... | ... | ... |
| 440 | ... | ... | ... | ... | ... | ... | ... | ... |
| 450 | ... | ... | ... | ... | ... | ... | ... | ... |
| 460 | ... | ... | ... | ... | ... | ... | ... | ... |
| 470 | ... | ... | ... | ... | ... | ... | ... | ... |

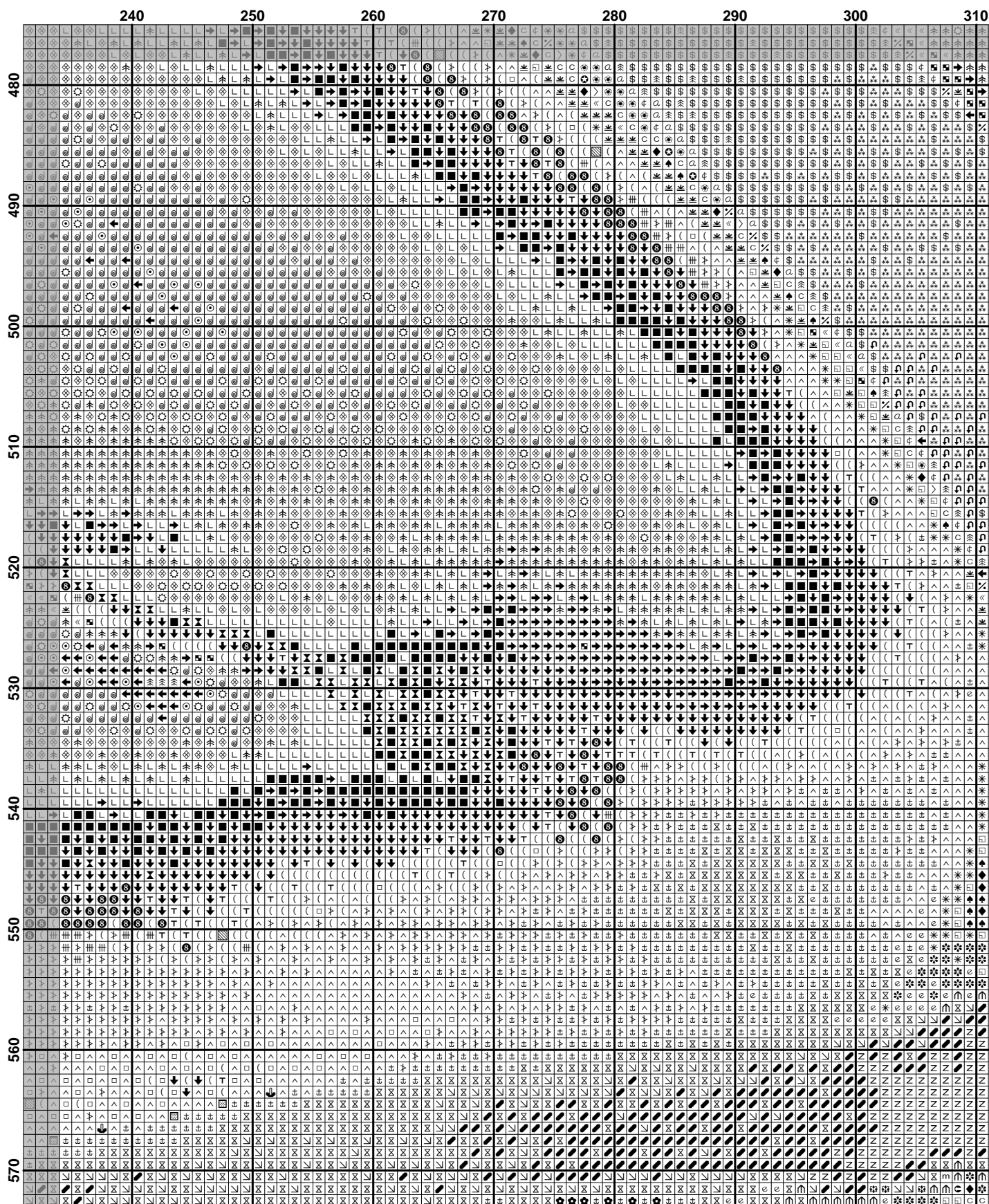


|     | 470 | 480 | 490 | 500 | 510 | 520 |
|-----|-----|-----|-----|-----|-----|-----|
| 380 |     |     |     |     |     |     |
| 390 |     |     |     |     |     |     |
| 400 |     |     |     |     |     |     |
| 410 |     |     |     |     |     |     |
| 420 |     |     |     |     |     |     |
| 430 |     |     |     |     |     |     |
| 440 |     |     |     |     |     |     |
| 450 |     |     |     |     |     |     |
| 460 |     |     |     |     |     |     |
| 470 |     |     |     |     |     |     |



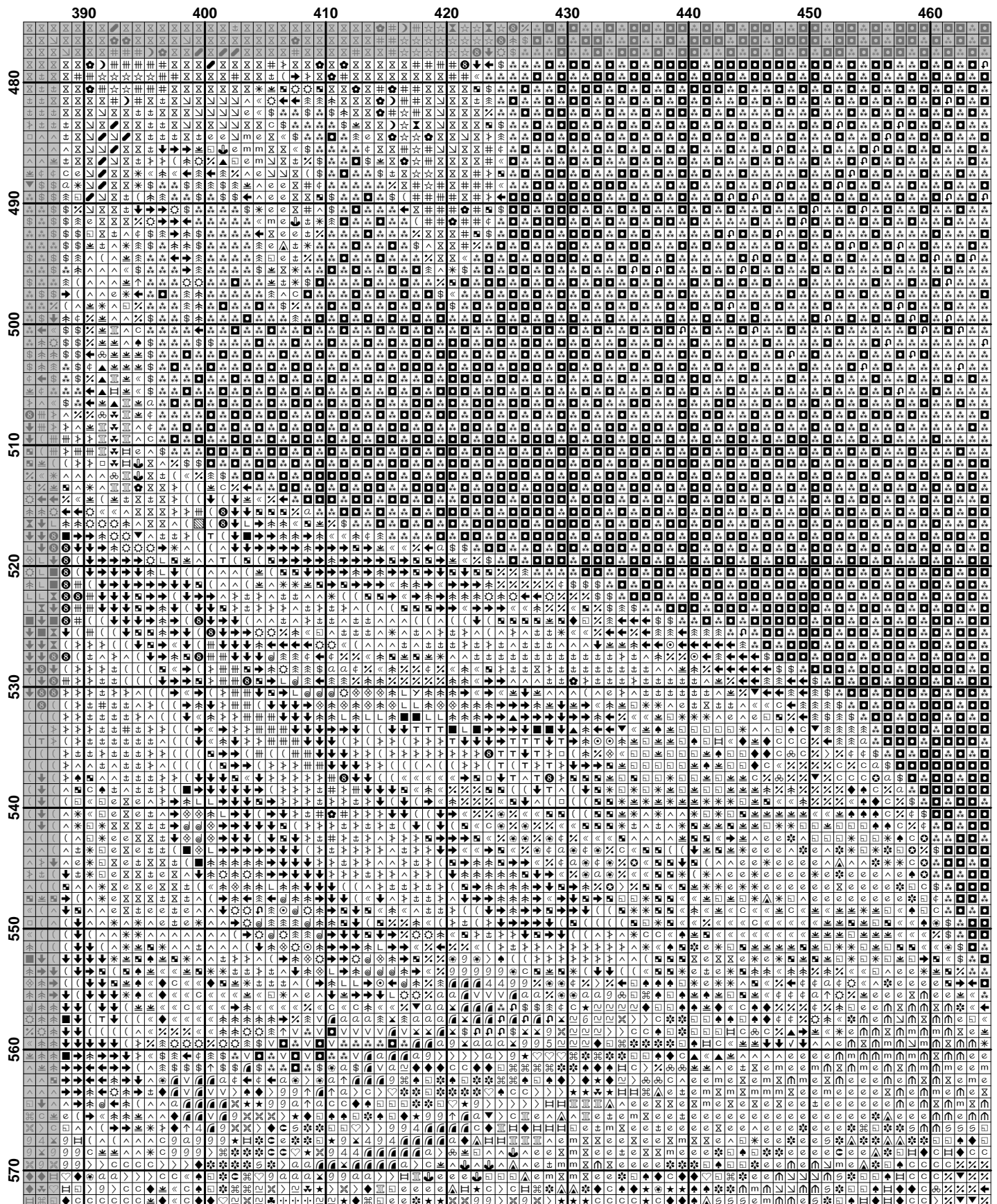


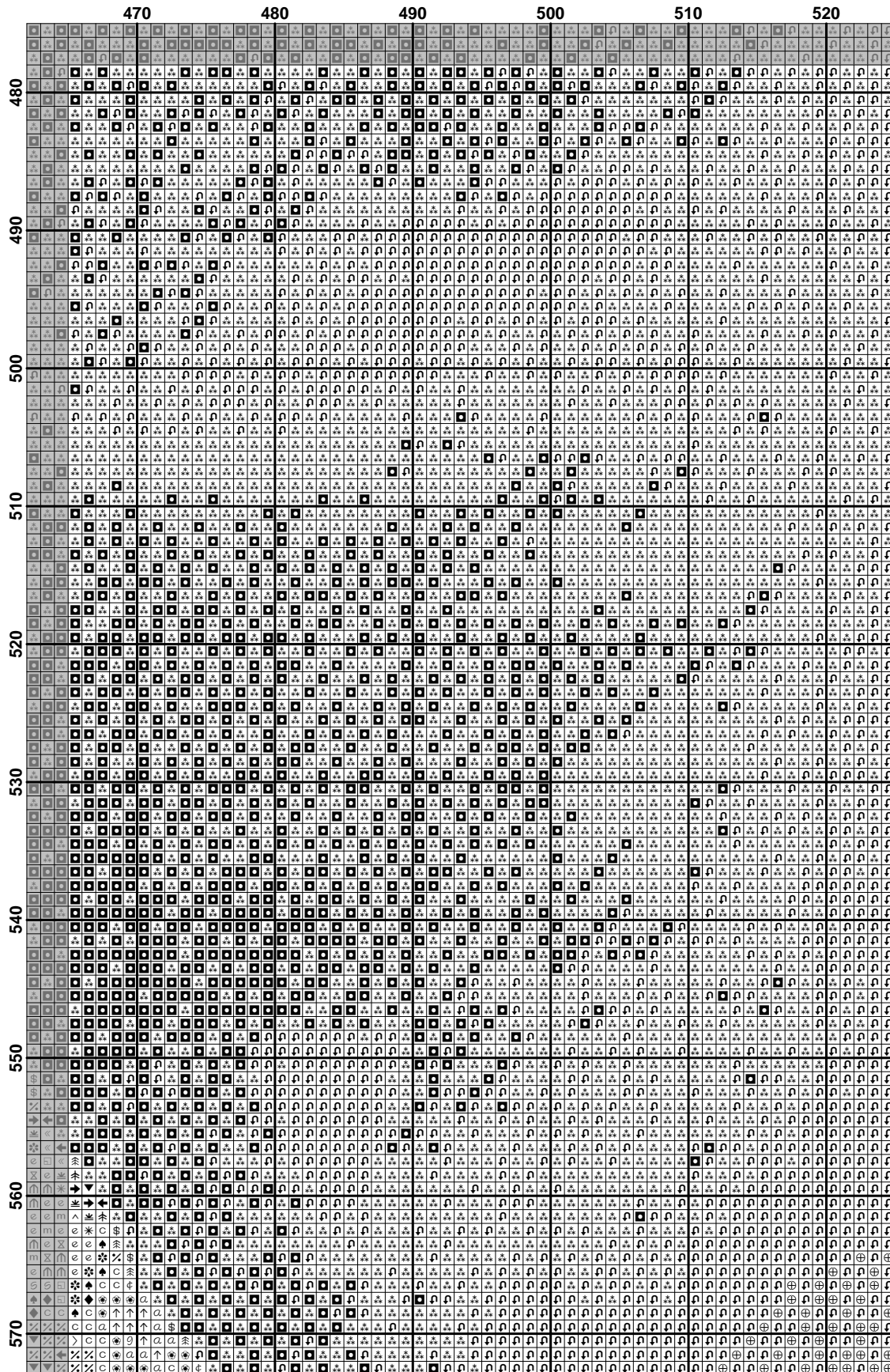


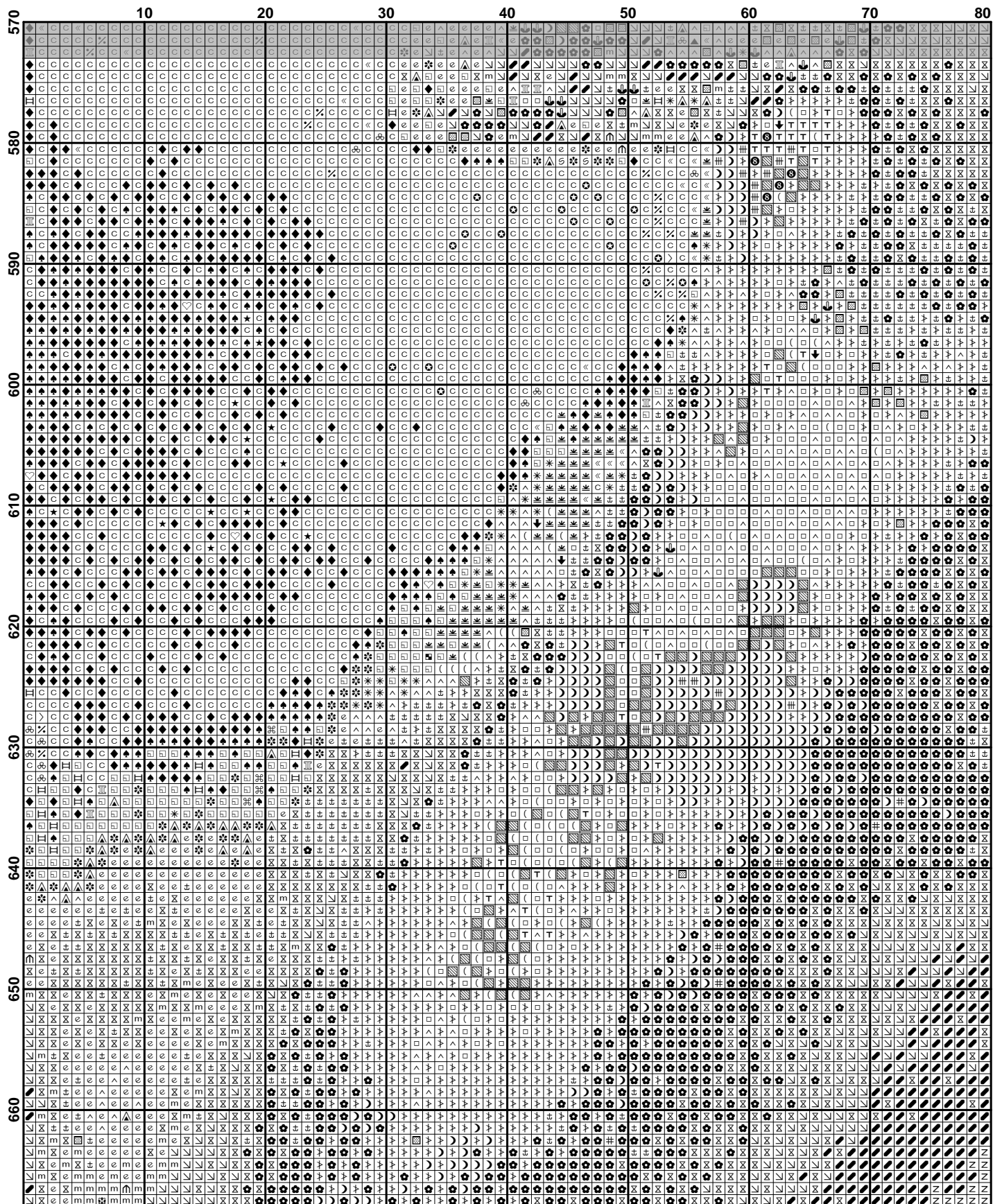


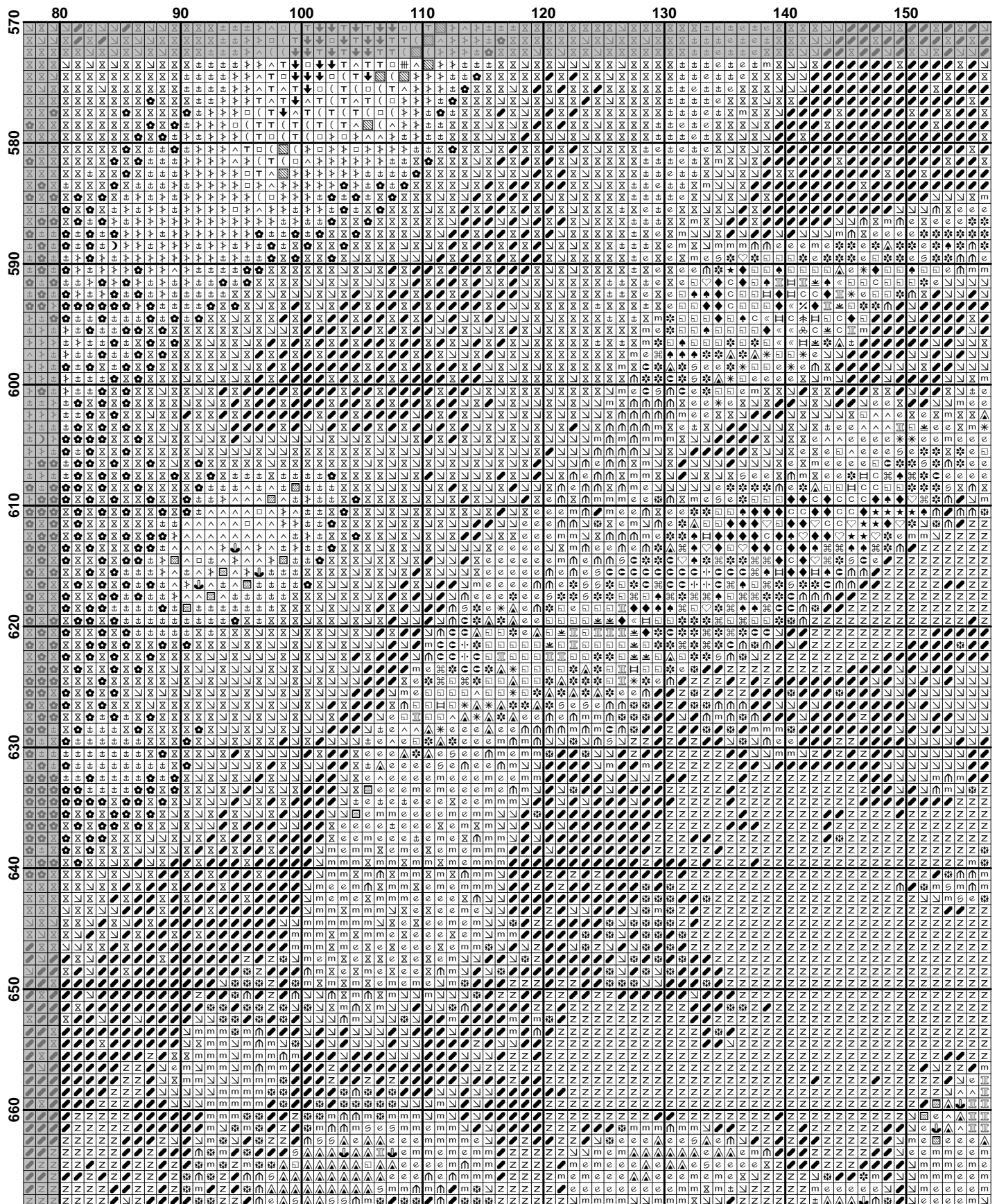
|     | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 480 | ... | ... | ... | ... | ... | ... | ... | ... |
| 490 | ... | ... | ... | ... | ... | ... | ... | ... |
| 500 | ... | ... | ... | ... | ... | ... | ... | ... |
| 510 | ... | ... | ... | ... | ... | ... | ... | ... |
| 520 | ... | ... | ... | ... | ... | ... | ... | ... |
| 530 | ... | ... | ... | ... | ... | ... | ... | ... |
| 540 | ... | ... | ... | ... | ... | ... | ... | ... |
| 550 | ... | ... | ... | ... | ... | ... | ... | ... |
| 560 | ... | ... | ... | ... | ... | ... | ... | ... |
| 570 | ... | ... | ... | ... | ... | ... | ... | ... |

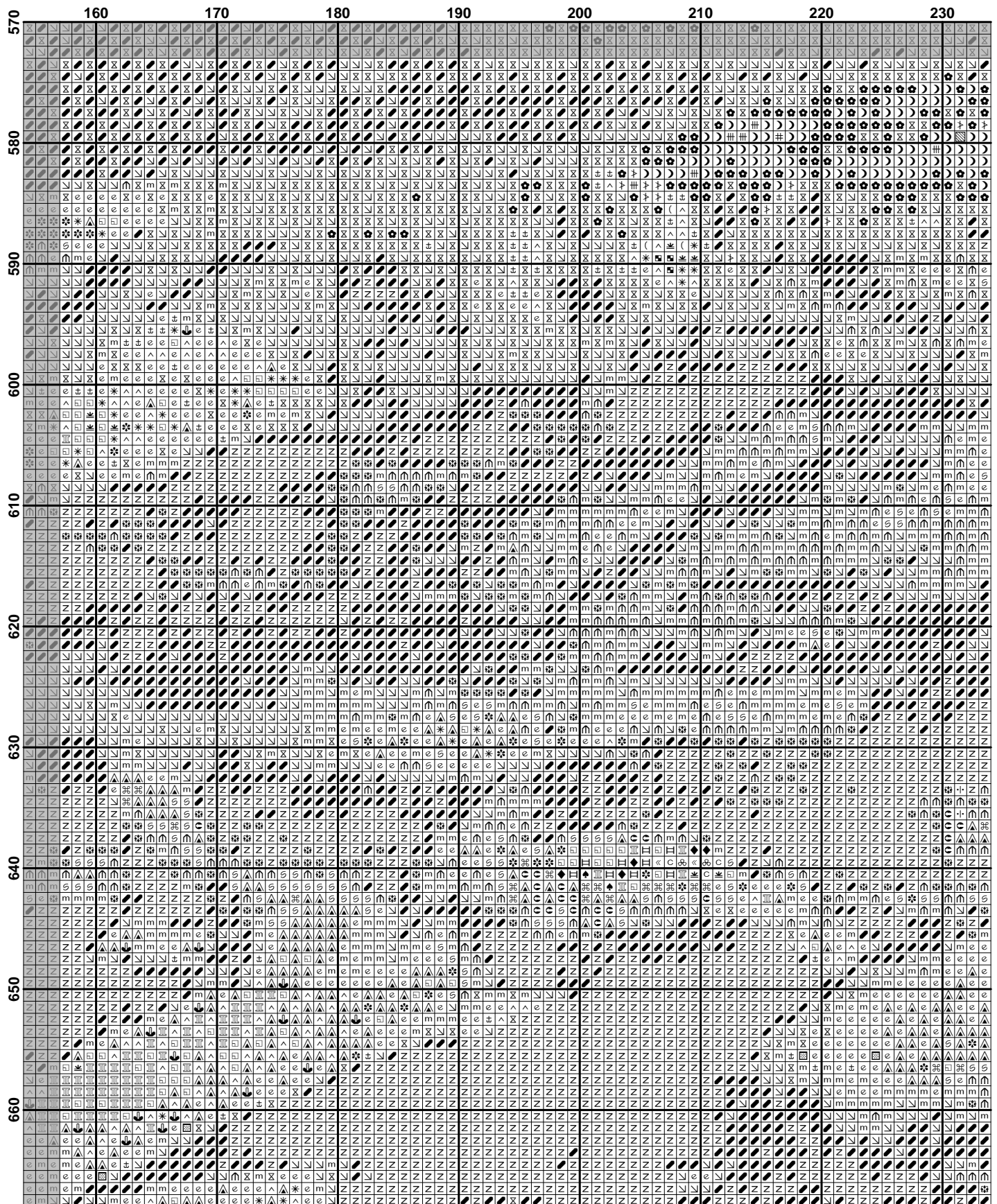


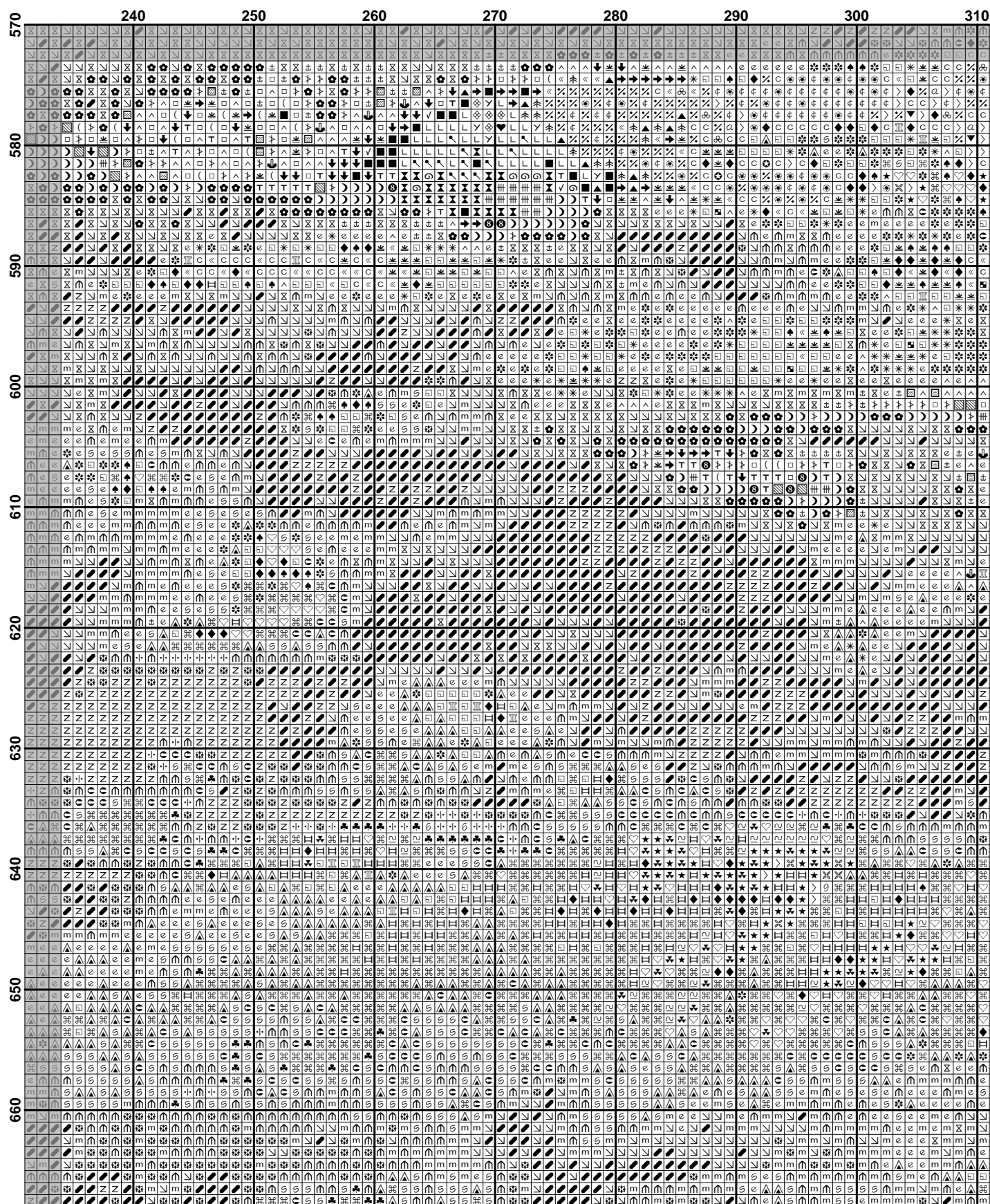


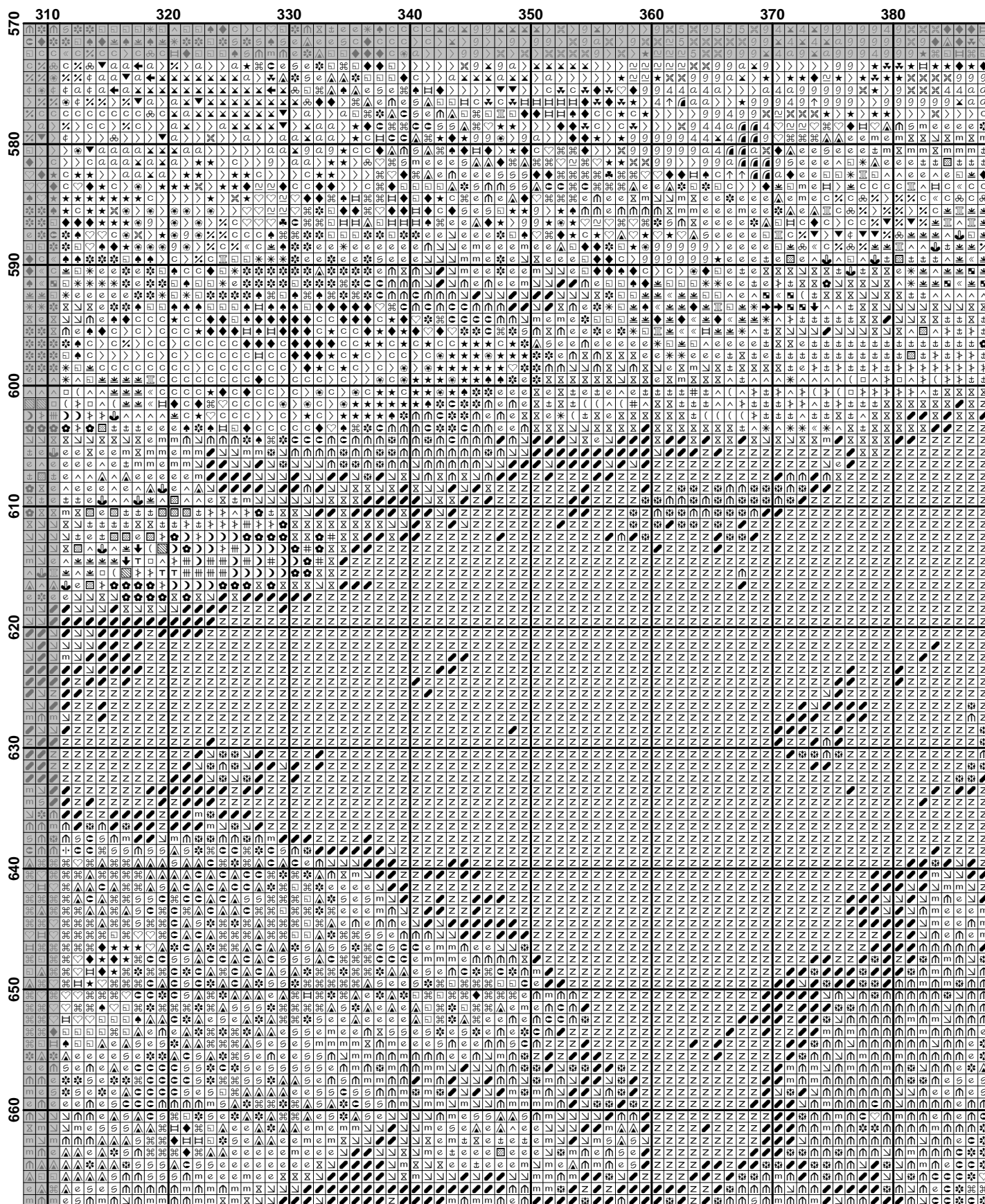


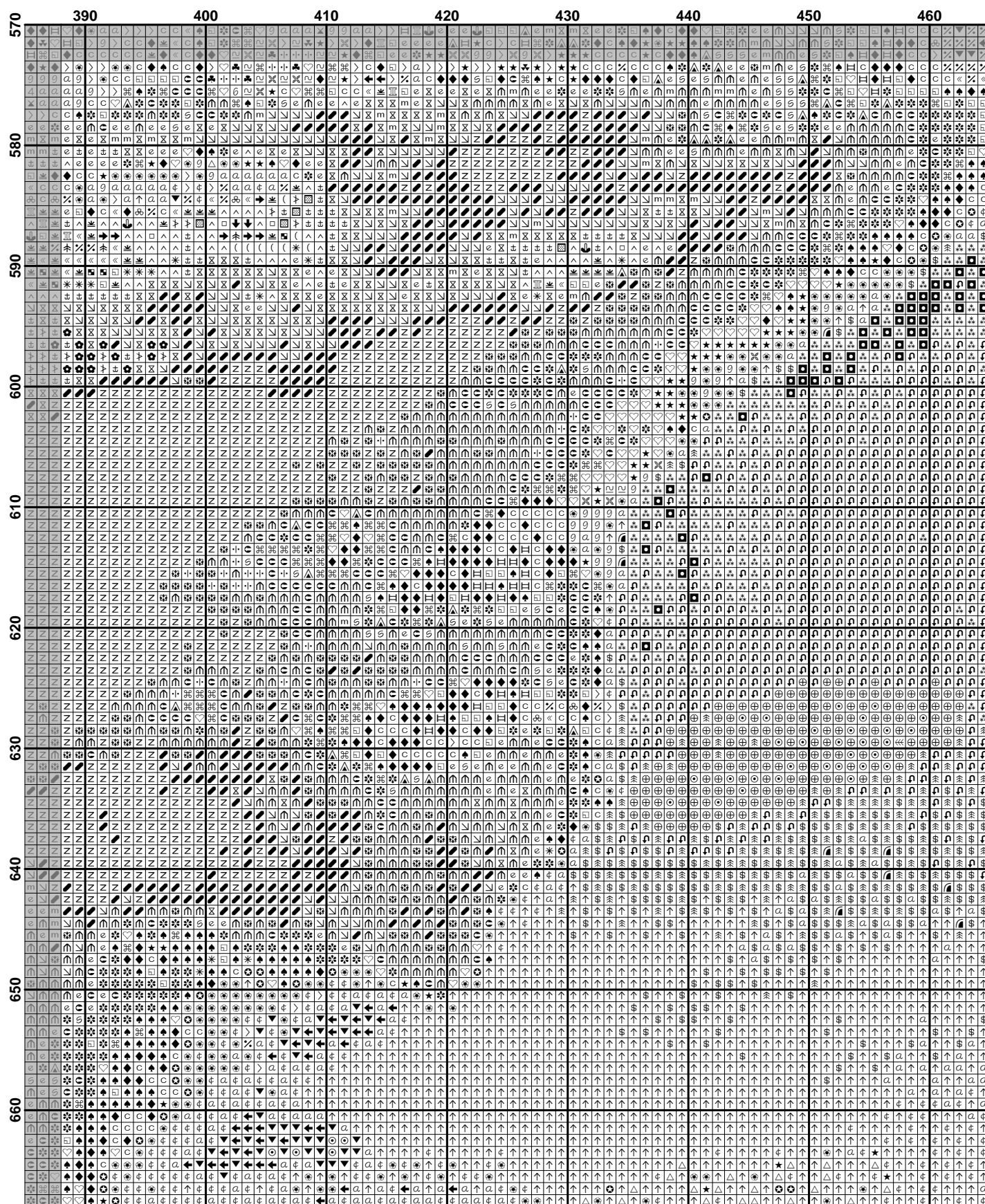








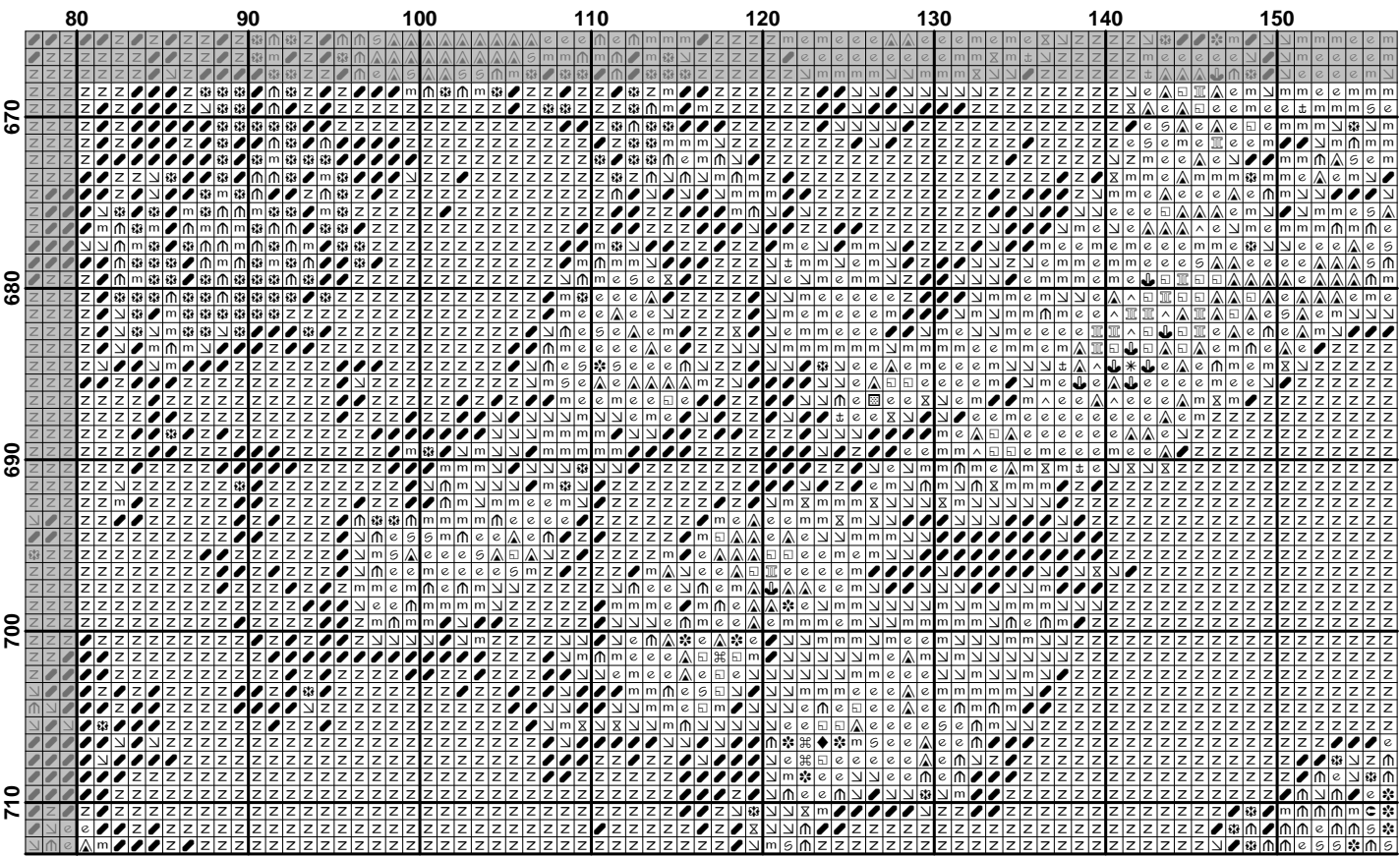






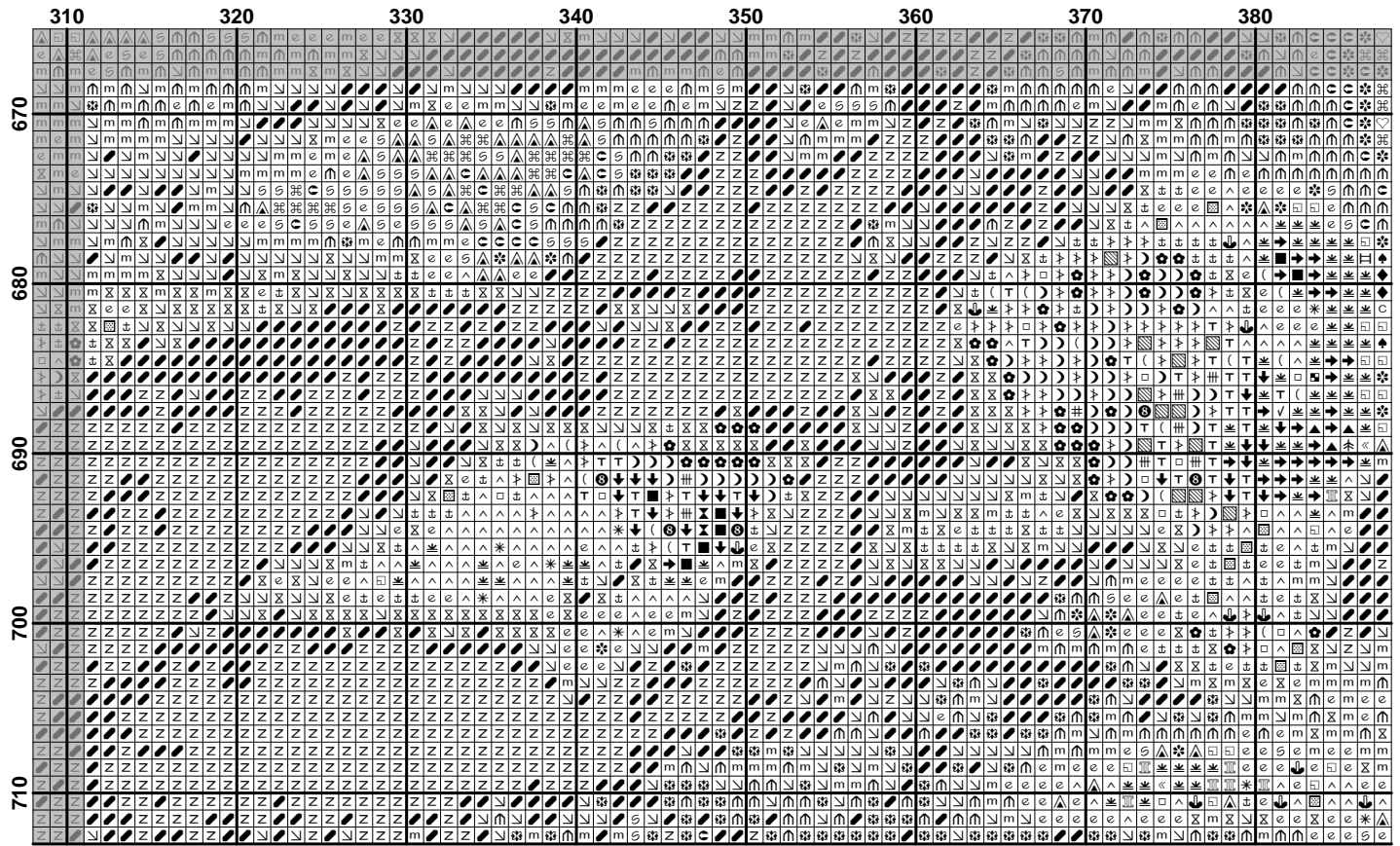
[illegible]

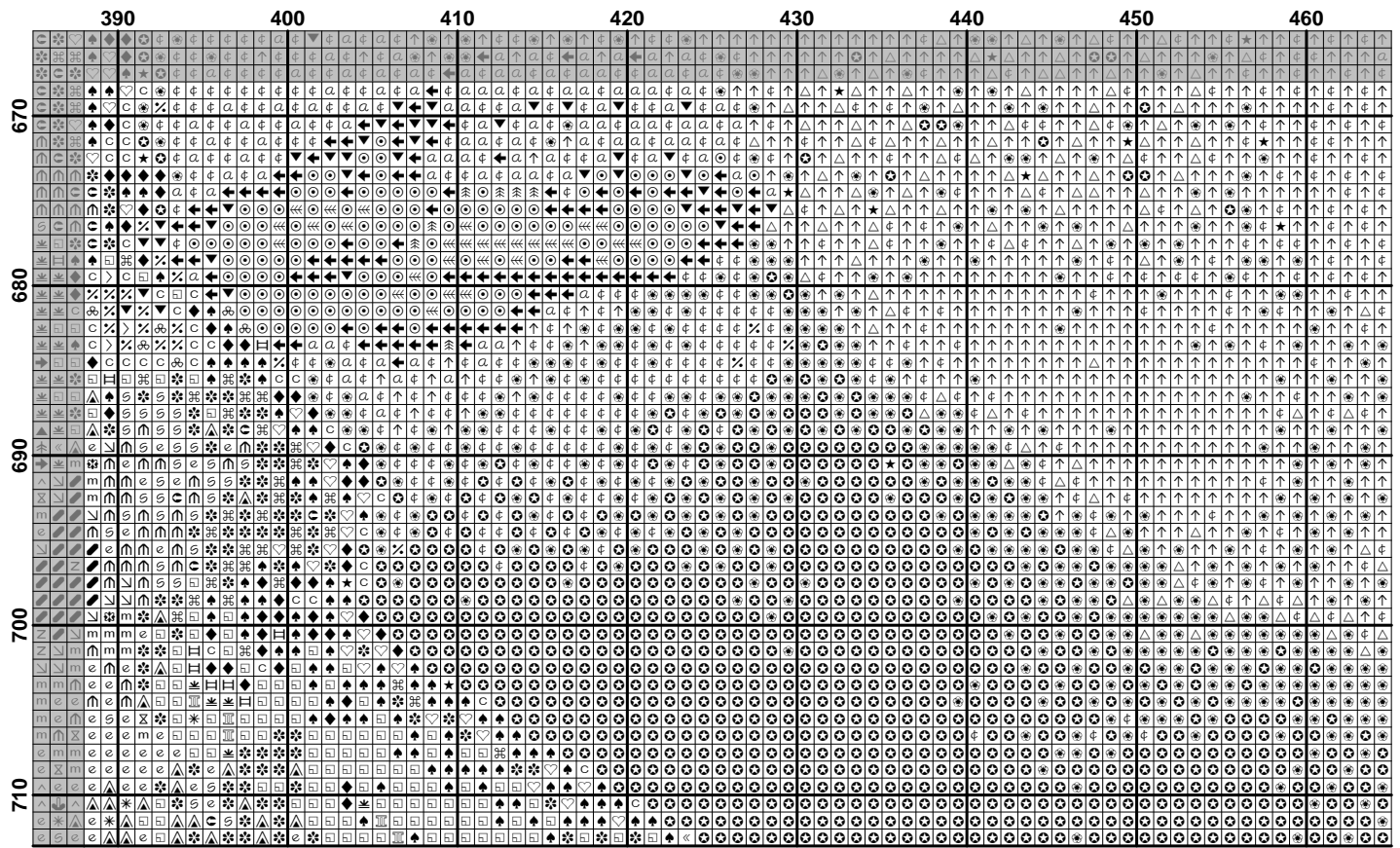
|     | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
|-----|----|----|----|----|----|----|----|----|
| 670 | U  | U  | U  | U  | U  | U  | U  | U  |
| 680 | U  | U  | U  | U  | U  | U  | U  | U  |
| 690 | U  | U  | U  | U  | U  | U  | U  | U  |
| 700 | U  | U  | U  | U  | U  | U  | U  | U  |
| 710 | U  | U  | U  | U  | U  | U  | U  | U  |



[illegible]

|     | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 670 |     |     |     |     |     |     |     |     |
| 680 |     |     |     |     |     |     |     |     |
| 690 |     |     |     |     |     |     |     |     |
| 700 |     |     |     |     |     |     |     |     |
| 710 |     |     |     |     |     |     |     |     |





[illegible]