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## 1045 Strawberries On A Cabbage Leaf (large)



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## Instructions

Thank you for choosing Golden Kite products!  
We hope you will have lots of fun with this cross-stitch pattern!

### Fabric

Press the fabric with an iron if needed. A good thing to prevent the fabric from fraying is to machine zigzag the edges.

On large patterns, it is easiest to start from the upper left corner of the design. Make sure you have the proper margins before starting and that the fabric piece is of the correct size. The best way to verify this is to count all stitch positions on the fabric from the upper left corner downwards and to the right to make sure there is enough space for the design.

Some prefer to start in the center of the design instead. To locate the center of the fabric, fold the fabric in half both vertically and horizontally. The center is located where these two folds meet.

### Stitches

Each length of DMC tread consists of six strands.  
Use two of these strands for all stitches.

Note that some colors may be mixes (or blends) between two different pure colors. In that case take one strand of the two colors each and thread the two strands into the needle at the same time for stitching.

All stitches are full cross-stitches. No half-stitching and no back-stitching is necessary in this pattern.

All cross-stitches will be worked into the holes in the fabric from left to right. Always use the larger holes in the fabric for the stitches. Adjacent stitches should meet in the same hole. Make sure all stitches cross in the same direction.

Please be careful when washing the finished embroidery! The cotton thread may bleed when washed. Only hand wash it in lukewarm water. Remove excess water by roll it in a towel and lay it flat to air dry. Natural fabrics may shrink slightly when washed. We do not recommend washing the embroidery if not absolutely necessary and we take no responsibility for any damage that may occur.

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| Strawberries On A Cabbage Leaf (large)   |       |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|--|-------|-------|--------|-------|--------------|-------|-------------|-------|-----------|-------|--|-------|--|--|--|--|--|--|--------------------------|--|--|--|---------------|--|--|--|
|  |       |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| <table><tr><td colspan="2">Stitch Count</td></tr><tr><td>Horizontal:</td><td>500</td></tr><tr><td>Vertical:</td><td>361</td></tr></table>  |       |       |        |       | Stitch Count |       | Horizontal: | 500   | Vertical: | 361   | <table><tr><td colspan="4">Recommended Fabric Color</td></tr><tr><td colspan="4">Antique White</td></tr></table> |       |  |  |  |  |  |  | Recommended Fabric Color |  |  |  | Antique White |  |  |  |
| Stitch Count   |       |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Horizontal:  | 500   |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Vertical:  | 361   |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Recommended Fabric Color   |       |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Antique White  |       |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  |       |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| <p>This table tells the size of the pattern (without any margins) and the size of the fabric required to stitch the pattern (including recommended margins). 3 inch margins have been added on each side in the 'Including Margins' row.</p> <p>The sizes are given for 14, 16 and 18 stitches per inch fabrics.</p> <p>Make sure to use the 'Including Margins' row when cutting the piece of fabric to be used. Also make sure that 3 inch margins are enough for your stitching technique and add more margin areas if necessary.</p> |       |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | 14    |       |        |       | 16           |       |             |       | 18        |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | Width |       | Height |       | Width        |       | Height      |       | Width     |       | Height   |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | cm    | inch  | cm     | inch  | cm           | inch  | cm          | inch  | cm        | inch  | cm   | inch  |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Pattern:   | 91    | 35.67 | 66     | 25.71 | 80           | 31.21 | 58          | 22.5  | 71        | 27.75 | 51   | 20    |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Including Margins:   | 107   | 42    | 82     | 32    | 96           | 38    | 74          | 29    | 87        | 34    | 67   | 27    |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | 10    |       |        |       | 12           |       |             |       | 24        |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | Width |       | Height |       | Width        |       | Height      |       | Width     |       | Height   |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | cm    | inch  | cm     | inch  | cm           | inch  | cm          | inch  | cm        | inch  | cm   | inch  |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Pattern:   | 127   | 49.93 | 92     | 35.99 | 106          | 41.61 | 77          | 29.99 | 53        | 20.8  | 38   | 14.99 |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Including Margins:   | 143   | 56    | 108    | 42    | 122          | 48    | 93          | 36    | 69        | 27    | 54   | 21    |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | 25    |       |        |       | 26           |       |             |       | 27        |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | Width |       | Height |       | Width        |       | Height      |       | Width     |       | Height   |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | cm    | inch  | cm     | inch  | cm           | inch  | cm          | inch  | cm        | inch  | cm   | inch  |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Pattern:   | 50    | 19.97 | 36     | 14.39 | 49           | 19.2  | 35          | 13.84 | 47        | 18.49 | 34   | 13.33 |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Including Margins:   | 66    | 26    | 52     | 21    | 65           | 26    | 51          | 20    | 63        | 25    | 50   | 20    |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | 28    |       |        |       | 30           |       |             |       | 32        |       |  |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | Width |       | Height |       | Width        |       | Height      |       | Width     |       | Height   |       |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
|  | cm    | inch  | cm     | inch  | cm           | inch  | cm          | inch  | cm        | inch  | cm   | inch  |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Pattern:   | 45    | 17.83 | 33     | 12.85 | 42           | 16.64 | 30          | 11.99 | 39        | 15.6  | 28   | 11.24 |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |
| Including Margins:   | 61    | 24    | 49     | 19    | 58           | 23    | 46          | 18    | 55        | 22    | 44   | 18    |  |  |  |  |  |  |                          |  |  |  |               |  |  |  |

Solid Color Stitches. Use two strands of the specified color for these stitches.

| Symbol | DMC | Name                  |
|--------|-----|-----------------------|
| ▼      | 221 | Shell Pink-VY DK      |
| ■      | 310 | Black                 |
| ↓      | 319 | Pistachio Green-VY DK |
| ⊗      | 326 | Rose-VY DK            |
| ⊗      | 347 | Salmon-VY DK          |
| ◇      | 350 | Coral-MD              |
| —      | 351 | Coral                 |
| ♡      | 352 | Coral-LT              |
| 田      | 356 | Terra Cotta-MD        |
| ⊕      | 371 | Mustard               |
| ⇐      | 372 | Mustard-LT            |
| ∅      | 402 | Mahogany-VY LT        |
| ▷      | 415 | Pearl Gray            |
| ⊠      | 420 | Hazelnut Brown-DK     |
| ▨      | 433 | Brown-MD              |
| ≡      | 451 | Shell Gray-DK         |
| ⌘      | 471 | Avocado Green-VY LT   |
| ⌚      | 472 | Avocado Green-UL LT   |
| ●      | 500 | Blue Green-VY DK      |
| ⊗      | 502 | Blue Green            |
| ∴      | 503 | Blue Green-MD         |
| ◐      | 520 | Fern Green-DK         |
| •      | 522 | Fern Green            |
| 9      | 523 | Fern Green-LT         |
| :      | 524 | Fern Green-VY LT      |
| ❖      | 610 | Drab Brown-DK         |
| ⌘      | 611 | Drab Brown            |
| ⌘      | 613 | Drab Brown-VY LT      |
| ≡      | 632 | Desert Sand-UL VY DK  |
| ⊗      | 640 | Beige Gray-VY DK      |
| √      | 642 | Beige Gray-DK         |
| □      | 644 | Beige Gray-MD         |
| ⌘      | 645 | Beaver Gray-VY DK     |
| ⌘      | 646 | Beaver Gray-DK        |
| ⊕      | 699 | Christmas Green       |
| 4      | 704 | Chartreuse-BRT        |
| ↑      | 721 | Orange Spice-MD       |
| u      | 772 | Yellow Green-VY LT    |
| o      | 800 | Delft Blue-Pale       |
| ⊗      | 801 | Coffee Brown-DK       |
| ☯      | 814 | Garnet-DK             |
| ←      | 815 | Garnet-MD             |
| ✱      | 816 | Garnet                |
| 1      | 822 | Beige Gray-LT         |
| +      | 829 | Golden Olive-VY DK    |
| ☾      | 830 | Golden Olive-DK       |
| e      | 833 | Golden Olive-LT       |

|    |      |                       |
|----|------|-----------------------|
| ⊗  | 838  | Beige Brown-VY DK     |
| ◇  | 839  | Beige Brown-DK        |
| ✱  | 869  | Hazelnut Brown-VY DK  |
| ↓  | 895  | Hunter Green-VY DK    |
| u  | 898  | Coffee Brown-VY DK    |
| ⊗  | 900  | Burnt Orange-DK       |
| ⌘  | 902  | Garnet-VY DK          |
| ⊠  | 919  | Red Copper            |
| ⊗  | 920  | Copper-MD             |
| ⊗  | 921  | Copper                |
| ☯  | 926  | Gray Green-MD         |
| /  | 927  | Gray Green-LT         |
| =  | 928  | Gray Green-VY LT      |
| ●  | 934  | Black Avocado Green   |
| ♥  | 938  | Coffee Brown-UL DK    |
| ∅  | 975  | Golden Brown-DK       |
| ∅  | 977  | Golden Brown-LT       |
| ⊗  | 986  | Forest Green-VY DK    |
| ⊗  | 987  | Forest Green-DK       |
| ⊗  | 3011 | Khaki Green-DK        |
| ↑  | 3012 | Khaki Green-MD        |
| +  | 3013 | Khaki Green-LT        |
| ⌘  | 3021 | Brown Gray-VY DK      |
| ✱  | 3031 | Mocha Brown-VY DK     |
| (  | 3046 | Yellow Beige-MD       |
| #  | 3052 | Green Gray-MD         |
| «  | 3072 | Beaver Gray-VY LT     |
| ☯  | 3340 | Apricot-MD            |
| ✱  | 3346 | Hunter Green          |
| .. | 3347 | Yellow Green-MD       |
| ○  | 3348 | Yellow Green-LT       |
| 3  | 3364 | Pine Green            |
| ●  | 3371 | Black Brown           |
| 7  | 3712 | Salmon-MD             |
| ♦  | 3721 | Shell Pink-DK         |
| n  | 3753 | Antique Blue-UL VY LT |
| ☯  | 3768 | Gray Green-DK         |
| ** | 3772 | Desert Sand-VY DK     |
| ⊗  | 3777 | Terra Cotta-VY DK     |
| ⊕  | 3781 | Mocha Brown-DK        |
| ⊕  | 3787 | Brown Gray-DK         |
| ☯  | 3790 | Beige Gray-UL DK      |
| ➔  | 3799 | Pewter Gray-VY DK     |
| ⊕  | 3828 | Hazelnut Brown        |
| ⊗  | 3829 | Old Gold-VY DK        |
| ⊠  | 3833 | Raspberry-LT          |
| ⊠  | 3853 | Autumn Gold-DK        |
| )  | 3854 | Autumn Gold-MD        |
| ♣  | 3857 | Rosewood-DK           |
| ✱  | 3862 | Mocha Beige-DK        |

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.

| Symbol | DMC1 | Name1              | DMC2 | Name2                |
|--------|------|--------------------|------|----------------------|
| 6      | 927  | Gray Green-LT      | 928  | Gray Green-VY LT     |
| ☐      | 3857 | Rosewood-DK        | 433  | Brown-MD             |
| ⌘      | 645  | Beaver Gray-VY DK  | 646  | Beaver Gray-DK       |
| ☐      | 520  | Fern Green-DK      | 3799 | Pewter Gray-VY DK    |
| *      | 3790 | Beige Gray-UL DK   | 839  | Beige Brown-DK       |
| ⌘      | 3787 | Brown Gray-DK      | 3790 | Beige Gray-UL DK     |
| ◀      | 3787 | Brown Gray-DK      | 839  | Beige Brown-DK       |
| ⌘      | 926  | Gray Green-MD      | 645  | Beaver Gray-VY DK    |
| 5      | 402  | Mahogany-VY LT     | 351  | Coral                |
| ✓      | 522  | Fern Green         | 646  | Beaver Gray-DK       |
| ⌘      | 523  | Fern Green-LT      | 3348 | Yellow Green-LT      |
| ☐      | 814  | Garnet-DK          | 938  | Coffee Brown-UL DK   |
| ○      | 3011 | Khaki Green-DK     | 3781 | Mocha Brown-DK       |
| ☐      | 801  | Coffee Brown-DK    | 898  | Coffee Brown-VY DK   |
| ▶      | 3781 | Mocha Brown-DK     | 830  | Golden Olive-DK      |
| ⊕      | 611  | Drab Brown         | 3862 | Mocha Beige-DK       |
| ⊕      | 611  | Drab Brown         | 3011 | Khaki Green-DK       |
| ⌘      | 3011 | Khaki Green-DK     | 3787 | Brown Gray-DK        |
| ○      | 371  | Mustard            | 3052 | Green Gray-MD        |
| ☆      | 3364 | Pine Green         | 371  | Mustard              |
| ⊕      | 3346 | Hunter Green       | 3790 | Beige Gray-UL DK     |
| ⌘      | 3790 | Beige Gray-UL DK   | 640  | Beige Gray-VY DK     |
| ⌘      | 420  | Hazelnut Brown-DK  | 3011 | Khaki Green-DK       |
| ↓      | 3011 | Khaki Green-DK     | 3012 | Khaki Green-MD       |
| ▲      | 814  | Garnet-DK          | 632  | Desert Sand-UL VY DK |
| ⊕      | 938  | Coffee Brown-UL DK | 3371 | Black Brown          |
| ⊕      | 3371 | Black Brown        | 814  | Garnet-DK            |
| ∞      | 772  | Yellow Green-VY LT | 644  | Beige Gray-MD        |
| △      | 3046 | Yellow Beige-MD    | 772  | Yellow Green-VY LT   |
| ⇒      | 772  | Yellow Green-VY LT | 3348 | Yellow Green-LT      |
| •      | 3046 | Yellow Beige-MD    | 3348 | Yellow Green-LT      |
| <      | 613  | Drab Brown-VY LT   | 524  | Fern Green-VY LT     |
| ~      | 613  | Drab Brown-VY LT   | 772  | Yellow Green-VY LT   |
| L      | 3013 | Khaki Green-LT     | 3046 | Yellow Beige-MD      |
| φ      | 433  | Brown-MD           | 975  | Golden Brown-DK      |
| ⌘      | 814  | Garnet-DK          | 815  | Garnet-MD            |
| ☐      | 919  | Red Copper         | 3777 | Terra Cotta-VY DK    |
| ☐      | 920  | Copper-MD          | 347  | Salmon-VY DK         |
| ◊      | 347  | Salmon-VY DK       | 900  | Burnt Orange-DK      |
| ☐      | 920  | Copper-MD          | 921  | Copper               |
| •      | 347  | Salmon-VY DK       | 919  | Red Copper           |
| ♠      | 326  | Rose-VY DK         | 919  | Red Copper           |
| ☐      | 921  | Copper             | 347  | Salmon-VY DK         |
| ☐      | 351  | Coral              | 900  | Burnt Orange-DK      |
| ✓      | 3853 | Autumn Gold-DK     | 900  | Burnt Orange-DK      |
| ⊕      | 347  | Salmon-VY DK       | 351  | Coral                |
| ☐      | 3340 | Apricot-MD         | 350  | Coral-MD             |
| ☐      | 350  | Coral-MD           | 3833 | Raspberry-LT         |
| ^      | 3072 | Beaver Gray-VY LT  | 928  | Gray Green-VY LT     |
| ⌘      | 502  | Blue Green         | 3052 | Green Gray-MD        |
| ⌘      | 520  | Fern Green-DK      | 3787 | Brown Gray-DK        |
| ◀      | 502  | Blue Green         | 645  | Beaver Gray-VY DK    |
| ☐      | 520  | Fern Green-DK      | 987  | Forest Green-DK      |

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|     |      |                    |      |                      |
|-----|------|--------------------|------|----------------------|
| III | 503  | Blue Green-MD      | 926  | Gray Green-MD        |
| ج   | 502  | Blue Green         | 522  | Fern Green           |
| ▲   | 3768 | Gray Green-DK      | 987  | Forest Green-DK      |
| ★   | 502  | Blue Green         | 520  | Fern Green-DK        |
| ≡   | 522  | Fern Green         | 3364 | Pine Green           |
| m   | 523  | Fern Green-LT      | 646  | Beaver Gray-DK       |
| ×   | 3011 | Khaki Green-DK     | 3347 | Yellow Green-MD      |
| //  | 420  | Hazelnut Brown-DK  | 869  | Hazelnut Brown-VY DK |
| ▣   | 611  | Drab Brown         | 3790 | Beige Gray-UL DK     |
| ◇   | 3853 | Autumn Gold-DK     | 977  | Golden Brown-LT      |
| ≡   | 3011 | Khaki Green-DK     | 3346 | Hunter Green         |
| ‡   | 3011 | Khaki Green-DK     | 3861 | Cocoa-LT             |
| ¢   | 3362 | Pine Green-DK      | 3781 | Mocha Brown-DK       |
| ▲   | 3346 | Hunter Green       | 3781 | Mocha Brown-DK       |
| ▲   | 611  | Drab Brown         | 3012 | Khaki Green-MD       |
| ☉   | 223  | Shell Pink-LT      | 632  | Desert Sand-UL VY DK |
| ↑   | 938  | Coffee Brown-UL DK | 815  | Garnet-MD            |
| ×   | 721  | Orange Spice-MD    | 350  | Coral-MD             |
| τ   | 3712 | Salmon-MD          | 347  | Salmon-VY DK         |
| ‡   | 3712 | Salmon-MD          | 921  | Copper               |
| ≥   | 3853 | Autumn Gold-DK     | 350  | Coral-MD             |
| ≡   | 900  | Burnt Orange-DK    | 977  | Golden Brown-LT      |
| ▣   | 520  | Fern Green-DK      | 3768 | Gray Green-DK        |
| ◆   | 500  | Blue Green-VY DK   | 699  | Christmas Green      |
| ‡   | 986  | Forest Green-VY DK | 987  | Forest Green-DK      |
| ‡   | 502  | Blue Green         | 3768 | Gray Green-DK        |

This table specifies how much thread of each color is required to stitch this pattern. It is good to know that one complete DMC skein contains 313 inches (795 cm) thread.

| DMC | Name                  | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
|-----|-----------------------|------------|--------------|------------|--------------|------------|--------------|
|     |                       | 14         |              | 16         |              | 18         |              |
| 221 | Shell Pink-VY DK      | 395        | 155          | 376        | 148          | 338        | 133          |
| 223 | Shell Pink-LT         | 19         | 7            | 18         | 7            | 16         | 6            |
| 310 | Black                 | 8610       | 3389         | 8200       | 3228         | 7380       | 2905         |
| 319 | Pistachio Green-VY DK | 231        | 90           | 220        | 86           | 198        | 77           |
| 326 | Rose-VY DK            | 442        | 174          | 421        | 165          | 379        | 149          |
| 347 | Salmon-VY DK          | 1388       | 546          | 1322       | 520          | 1190       | 468          |
| 350 | Coral-MD              | 789        | 310          | 751        | 295          | 676        | 266          |
| 351 | Coral                 | 216        | 85           | 206        | 81           | 185        | 72           |
| 352 | Coral-LT              | 30         | 11           | 29         | 11           | 26         | 10           |
| 356 | Terra Cotta-MD        | 33         | 12           | 31         | 12           | 28         | 11           |
| 371 | Mustard               | 628        | 247          | 598        | 235          | 539        | 212          |
| 372 | Mustard-LT            | 471        | 185          | 449        | 176          | 404        | 159          |
| 402 | Mahogany-VY LT        | 26         | 10           | 24         | 9            | 22         | 8            |
| 415 | Pearl Gray            | 109        | 42           | 104        | 40           | 94         | 37           |
| 420 | Hazelnut Brown-DK     | 631        | 248          | 601        | 236          | 541        | 212          |
| 433 | Brown-MD              | 302        | 118          | 288        | 113          | 259        | 101          |
| 451 | Shell Gray-DK         | 51         | 20           | 48         | 18           | 44         | 17           |
| 471 | Avocado Green-VY LT   | 56         | 22           | 53         | 20           | 48         | 18           |
| 472 | Avocado Green-UL LT   | 9          | 3            | 8          | 3            | 7          | 2            |
| 500 | Blue Green-VY DK      | 614        | 241          | 585        | 230          | 526        | 207          |
| 502 | Blue Green            | 401        | 157          | 382        | 150          | 344        | 135          |
| 503 | Blue Green-MD         | 366        | 144          | 349        | 137          | 314        | 123          |
| 520 | Fern Green-DK         | 671        | 264          | 639        | 251          | 575        | 226          |
| 522 | Fern Green            | 344        | 135          | 328        | 129          | 295        | 116          |
| 523 | Fern Green-LT         | 577        | 227          | 550        | 216          | 495        | 194          |
| 524 | Fern Green-VY LT      | 560        | 220          | 533        | 209          | 480        | 188          |
| 610 | Drab Brown-DK         | 295        | 116          | 281        | 110          | 253        | 99           |
| 611 | Drab Brown            | 597        | 235          | 568        | 223          | 511        | 201          |
| 613 | Drab Brown-VY LT      | 603        | 237          | 575        | 226          | 517        | 203          |
| 632 | Desert Sand-UL VY DK  | 216        | 85           | 205        | 80           | 185        | 72           |
| 640 | Beige Gray-VY DK      | 168        | 66           | 160        | 62           | 144        | 56           |
| 642 | Beige Gray-DK         | 311        | 122          | 296        | 116          | 266        | 104          |
| 644 | Beige Gray-MD         | 172        | 67           | 164        | 64           | 147        | 57           |
| 645 | Beaver Gray-VY DK     | 378        | 148          | 360        | 141          | 324        | 127          |
| 646 | Beaver Gray-DK        | 405        | 159          | 386        | 151          | 347        | 136          |
| 699 | Christmas Green       | 157        | 61           | 149        | 58           | 134        | 52           |
| 704 | Chartreuse-BRT        | 25         | 9            | 24         | 9            | 21         | 8            |
| 721 | Orange Spice-MD       | 78         | 30           | 74         | 29           | 67         | 26           |
| 772 | Yellow Green-VY LT    | 867        | 341          | 825        | 324          | 743        | 292          |
| 800 | Delft Blue-Pale       | 11         | 4            | 10         | 3            | 9          | 3            |
| 801 | Coffee Brown-DK       | 225        | 88           | 214        | 84           | 193        | 75           |
| 814 | Garnet-DK             | 1532       | 603          | 1459       | 574          | 1313       | 516          |
| 815 | Garnet-MD             | 716        | 281          | 682        | 268          | 613        | 241          |
| 816 | Garnet                | 308        | 121          | 294        | 115          | 264        | 103          |
| 822 | Beige Gray-LT         | 171        | 67           | 162        | 63           | 146        | 57           |
| 829 | Golden Olive-VY DK    | 165        | 64           | 157        | 61           | 141        | 55           |
| 830 | Golden Olive-DK       | 329        | 129          | 313        | 123          | 282        | 111          |
| 833 | Golden Olive-LT       | 45         | 17           | 43         | 16           | 39         | 15           |
| 838 | Beige Brown-VY DK     | 213        | 83           | 203        | 79           | 182        | 71           |
| 839 | Beige Brown-DK        | 280        | 110          | 267        | 105          | 240        | 94           |
| 869 | Hazelnut Brown-VY DK  | 360        | 141          | 343        | 135          | 308        | 121          |
| 895 | Hunter Green-VY DK    | 123        | 48           | 117        | 46           | 106        | 41           |
| 898 | Coffee Brown-VY DK    | 208        | 81           | 198        | 77           | 178        | 70           |
| 900 | Burnt Orange-DK       | 819        | 322          | 780        | 307          | 702        | 276          |

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|      |                       |      |      |      |      |      |      |
|------|-----------------------|------|------|------|------|------|------|
| 902  | Garnet-VY DK          | 61   | 24   | 58   | 22   | 52   | 20   |
| 919  | Red Copper            | 679  | 267  | 647  | 254  | 582  | 229  |
| 920  | Copper-MD             | 184  | 72   | 175  | 68   | 158  | 62   |
| 921  | Copper                | 213  | 83   | 203  | 79   | 183  | 72   |
| 926  | Gray Green-MD         | 236  | 92   | 225  | 88   | 202  | 79   |
| 927  | Gray Green-LT         | 482  | 189  | 459  | 180  | 413  | 162  |
| 928  | Gray Green-VY LT      | 652  | 256  | 621  | 244  | 559  | 220  |
| 934  | Black Avocado Green   | 418  | 164  | 398  | 156  | 358  | 140  |
| 938  | Coffee Brown-UL DK    | 1971 | 775  | 1877 | 738  | 1689 | 664  |
| 975  | Golden Brown-DK       | 135  | 53   | 128  | 50   | 115  | 45   |
| 977  | Golden Brown-LT       | 67   | 26   | 64   | 25   | 57   | 22   |
| 986  | Forest Green-VY DK    | 95   | 37   | 90   | 35   | 81   | 31   |
| 987  | Forest Green-DK       | 167  | 65   | 159  | 62   | 143  | 56   |
| 3011 | Khaki Green-DK        | 916  | 360  | 872  | 343  | 785  | 309  |
| 3012 | Khaki Green-MD        | 389  | 153  | 370  | 145  | 333  | 131  |
| 3013 | Khaki Green-LT        | 392  | 154  | 373  | 146  | 336  | 132  |
| 3021 | Brown Gray -VY DK     | 453  | 178  | 431  | 169  | 388  | 152  |
| 3031 | Mocha Brown-VY DK     | 485  | 190  | 462  | 181  | 416  | 163  |
| 3046 | Yellow Beige-MD       | 445  | 175  | 424  | 166  | 382  | 150  |
| 3052 | Green Gray-MD         | 509  | 200  | 485  | 190  | 436  | 171  |
| 3072 | Beaver Gray-VY LT     | 241  | 94   | 230  | 90   | 207  | 81   |
| 3340 | Apricot-MD            | 75   | 29   | 72   | 28   | 64   | 25   |
| 3346 | Hunter Green          | 230  | 90   | 219  | 86   | 197  | 77   |
| 3347 | Yellow Green-MD       | 102  | 40   | 97   | 38   | 88   | 34   |
| 3348 | Yellow Green-LT       | 443  | 174  | 422  | 166  | 379  | 149  |
| 3362 | Pine Green-DK         | 90   | 35   | 86   | 33   | 77   | 30   |
| 3364 | Pine Green            | 379  | 149  | 360  | 141  | 324  | 127  |
| 3371 | Black Brown           | 8289 | 3263 | 7894 | 3107 | 7105 | 2797 |
| 3712 | Salmon- MD            | 84   | 33   | 80   | 31   | 72   | 28   |
| 3721 | Shell Pink- DK        | 57   | 22   | 54   | 21   | 48   | 18   |
| 3753 | Antique Blue-UL VY LT | 56   | 22   | 53   | 20   | 48   | 18   |
| 3768 | Gray Green-DK         | 191  | 75   | 182  | 71   | 163  | 64   |
| 3772 | Desert Sand-VY DK     | 149  | 58   | 142  | 55   | 128  | 50   |
| 3777 | Terra Cotta-VY DK     | 691  | 272  | 658  | 259  | 592  | 233  |
| 3781 | Mocha Brown-DK        | 564  | 222  | 537  | 211  | 483  | 190  |
| 3787 | Brown Gray -DK        | 557  | 219  | 531  | 209  | 478  | 188  |
| 3790 | Beige Gray-UL DK      | 616  | 242  | 587  | 231  | 528  | 207  |
| 3799 | Pewter Gray -VY DK    | 360  | 141  | 342  | 134  | 308  | 121  |
| 3828 | Hazelnut Brown        | 83   | 32   | 79   | 31   | 71   | 27   |
| 3829 | Old Gold-VY DK        | 42   | 16   | 40   | 15   | 36   | 14   |
| 3833 | Raspberry-LT          | 35   | 13   | 33   | 12   | 30   | 11   |
| 3853 | Autumn Gold-DK        | 108  | 42   | 103  | 40   | 93   | 36   |
| 3854 | Autumn Gold-MD        | 15   | 5    | 14   | 5    | 13   | 5    |
| 3857 | Rosewood-DK           | 172  | 67   | 164  | 64   | 147  | 57   |
| 3861 | Cocoa-LT              | 65   | 25   | 62   | 24   | 55   | 21   |
| 3862 | Mocha Beige-DK        | 505  | 198  | 481  | 189  | 433  | 170  |

| Extended thread usage table. |                       |            |              |            |              |            |              |
|------------------------------|-----------------------|------------|--------------|------------|--------------|------------|--------------|
| DMC                          | Name                  | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
|                              |                       | 10         |              | 12         |              | 24         |              |
| 221                          | Shell Pink-VY DK      | 608        | 239          | 507        | 200          | 254        | 100          |
| 223                          | Shell Pink-LT         | 29         | 11           | 24         | 9            | 12         | 5            |
| 310                          | Black                 | 13284      | 5229         | 11070      | 4358         | 5535       | 2179         |
| 319                          | Pistachio Green-VY DK | 356        | 139          | 297        | 116          | 149        | 58           |
| 326                          | Rose-VY DK            | 682        | 268          | 569        | 224          | 284        | 112          |
| 347                          | Salmon-VY DK          | 2142       | 842          | 1785       | 702          | 893        | 351          |



|     |                      |      |      |      |     |      |     |
|-----|----------------------|------|------|------|-----|------|-----|
| 350 | Coral-MD             | 1217 | 479  | 1014 | 399 | 507  | 200 |
| 351 | Coral                | 333  | 130  | 278  | 108 | 139  | 54  |
| 352 | Coral-LT             | 47   | 18   | 39   | 15  | 20   | 8   |
| 356 | Terra Cotta-MD       | 50   | 20   | 42   | 17  | 21   | 8   |
| 371 | Mustard              | 970  | 382  | 809  | 318 | 404  | 159 |
| 372 | Mustard-LT           | 727  | 286  | 606  | 239 | 303  | 119 |
| 402 | Mahogany-VY LT       | 40   | 14   | 33   | 12  | 17   | 6   |
| 415 | Pearl Gray           | 169  | 67   | 141  | 56  | 71   | 28  |
| 420 | Hazelnut Brown-DK    | 974  | 382  | 812  | 318 | 406  | 159 |
| 433 | Brown-MD             | 466  | 182  | 389  | 152 | 194  | 76  |
| 451 | Shell Gray-DK        | 79   | 31   | 66   | 26  | 33   | 13  |
| 471 | Avocado Green-VY LT  | 86   | 32   | 72   | 27  | 36   | 14  |
| 472 | Avocado Green-UL LT  | 13   | 4    | 11   | 3   | 5    | 2   |
| 500 | Blue Green-VY DK     | 947  | 373  | 789  | 311 | 395  | 155 |
| 502 | Blue Green           | 619  | 243  | 516  | 203 | 258  | 101 |
| 503 | Blue Green-MD        | 565  | 221  | 471  | 185 | 236  | 92  |
| 520 | Fern Green-DK        | 1035 | 407  | 863  | 339 | 431  | 170 |
| 522 | Fern Green           | 531  | 209  | 443  | 174 | 221  | 87  |
| 523 | Fern Green-LT        | 891  | 349  | 743  | 291 | 371  | 146 |
| 524 | Fern Green-VY LT     | 864  | 338  | 720  | 282 | 360  | 141 |
| 610 | Drab Brown-DK        | 455  | 178  | 380  | 149 | 190  | 74  |
| 611 | Drab Brown           | 920  | 362  | 767  | 302 | 383  | 151 |
| 613 | Drab Brown-VY LT     | 931  | 365  | 776  | 305 | 388  | 152 |
| 632 | Desert Sand-UL VY DK | 333  | 130  | 278  | 108 | 139  | 54  |
| 640 | Beige Gray-VY DK     | 259  | 101  | 216  | 84  | 108  | 42  |
| 642 | Beige Gray-DK        | 479  | 187  | 399  | 156 | 200  | 78  |
| 644 | Beige Gray-MD        | 265  | 103  | 221  | 86  | 110  | 43  |
| 645 | Beaver Gray-VY DK    | 583  | 229  | 486  | 191 | 243  | 95  |
| 646 | Beaver Gray-DK       | 625  | 245  | 521  | 204 | 260  | 102 |
| 699 | Christmas Green      | 241  | 94   | 201  | 78  | 101  | 39  |
| 704 | Chartreuse-BRT       | 38   | 14   | 32   | 12  | 16   | 6   |
| 721 | Orange Spice-MD      | 121  | 47   | 101  | 39  | 50   | 20  |
| 772 | Yellow Green-VY LT   | 1337 | 526  | 1115 | 438 | 557  | 219 |
| 800 | Delft Blue-Pale      | 16   | 5    | 14   | 5   | 7    | 2   |
| 801 | Coffee Brown-DK      | 347  | 135  | 290  | 113 | 145  | 56  |
| 814 | Garnet-DK            | 2363 | 929  | 1970 | 774 | 985  | 387 |
| 815 | Garnet-MD            | 1103 | 434  | 920  | 362 | 460  | 181 |
| 816 | Garnet               | 475  | 185  | 396  | 155 | 198  | 77  |
| 822 | Beige Gray-LT        | 263  | 103  | 219  | 86  | 110  | 43  |
| 829 | Golden Olive-VY DK   | 254  | 99   | 212  | 83  | 106  | 41  |
| 830 | Golden Olive-DK      | 508  | 200  | 423  | 167 | 212  | 83  |
| 833 | Golden Olive-LT      | 70   | 27   | 59   | 23  | 29   | 11  |
| 838 | Beige Brown-VY DK    | 328  | 128  | 273  | 107 | 137  | 53  |
| 839 | Beige Brown-DK       | 432  | 169  | 360  | 141 | 180  | 71  |
| 869 | Hazelnut Brown-VY DK | 554  | 218  | 462  | 182 | 231  | 91  |
| 895 | Hunter Green-VY DK   | 191  | 74   | 159  | 62  | 80   | 31  |
| 898 | Coffee Brown-VY DK   | 320  | 126  | 267  | 105 | 134  | 53  |
| 900 | Burnt Orange-DK      | 1264 | 497  | 1053 | 414 | 527  | 207 |
| 902 | Garnet-VY DK         | 94   | 36   | 78   | 30  | 39   | 15  |
| 919 | Red Copper           | 1048 | 412  | 873  | 344 | 437  | 172 |
| 920 | Copper-MD            | 284  | 112  | 237  | 93  | 119  | 47  |
| 921 | Copper               | 329  | 130  | 275  | 108 | 137  | 54  |
| 926 | Gray Green-MD        | 364  | 142  | 303  | 119 | 152  | 59  |
| 927 | Gray Green-LT        | 743  | 292  | 620  | 243 | 310  | 122 |
| 928 | Gray Green-VY LT     | 1006 | 396  | 839  | 330 | 419  | 165 |
| 934 | Black Avocado Green  | 644  | 252  | 537  | 210 | 269  | 105 |
| 938 | Coffee Brown-UL DK   | 3040 | 1195 | 2534 | 996 | 1267 | 498 |
| 975 | Golden Brown-DK      | 207  | 81   | 173  | 68  | 86   | 34  |
| 977 | Golden Brown-LT      | 103  | 40   | 86   | 33  | 43   | 17  |

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|      |                       |       |      |       |      |      |      |
|------|-----------------------|-------|------|-------|------|------|------|
| 986  | Forest Green-VY DK    | 146   | 56   | 122   | 47   | 61   | 23   |
| 987  | Forest Green-DK       | 257   | 101  | 215   | 84   | 107  | 42   |
| 3011 | Khaki Green-DK        | 1413  | 556  | 1178  | 464  | 589  | 232  |
| 3012 | Khaki Green-MD        | 599   | 236  | 500   | 197  | 250  | 98   |
| 3013 | Khaki Green-LT        | 605   | 238  | 504   | 198  | 252  | 99   |
| 3021 | Brown Gray -VY DK     | 698   | 274  | 582   | 228  | 291  | 114  |
| 3031 | Mocha Brown-VY DK     | 749   | 293  | 624   | 245  | 312  | 122  |
| 3046 | Yellow Beige-MD       | 688   | 270  | 573   | 225  | 287  | 113  |
| 3052 | Green Gray-MD         | 785   | 308  | 654   | 257  | 327  | 128  |
| 3072 | Beaver Gray-VY LT     | 373   | 146  | 311   | 122  | 155  | 61   |
| 3340 | Apricot-MD            | 115   | 45   | 96    | 38   | 48   | 19   |
| 3346 | Hunter Green          | 355   | 139  | 296   | 116  | 148  | 58   |
| 3347 | Yellow Green-MD       | 158   | 61   | 132   | 51   | 66   | 26   |
| 3348 | Yellow Green-LT       | 682   | 268  | 569   | 224  | 284  | 112  |
| 3362 | Pine Green-DK         | 139   | 54   | 116   | 45   | 58   | 23   |
| 3364 | Pine Green            | 583   | 229  | 486   | 191  | 243  | 95   |
| 3371 | Black Brown           | 12789 | 5035 | 10658 | 4196 | 5329 | 2098 |
| 3712 | Salmon-MD             | 130   | 50   | 108   | 42   | 54   | 21   |
| 3721 | Shell Pink-DK         | 86    | 32   | 72    | 27   | 36   | 14   |
| 3753 | Antique Blue-UL VY LT | 86    | 32   | 72    | 27   | 36   | 14   |
| 3768 | Gray Green-DK         | 293   | 115  | 245   | 96   | 122  | 48   |
| 3772 | Desert Sand-VY DK     | 230   | 90   | 192   | 75   | 96   | 38   |
| 3777 | Terra Cotta-VY DK     | 1066  | 419  | 888   | 350  | 444  | 175  |
| 3781 | Mocha Brown-DK        | 869   | 342  | 725   | 285  | 362  | 143  |
| 3787 | Brown Gray -DK        | 860   | 338  | 717   | 282  | 359  | 141  |
| 3790 | Beige Gray-UL DK      | 950   | 373  | 792   | 311  | 396  | 155  |
| 3799 | Pewter Gray-VY DK     | 554   | 218  | 462   | 182  | 231  | 91   |
| 3828 | Hazelnut Brown        | 128   | 49   | 107   | 41   | 53   | 20   |
| 3829 | Old Gold-VY DK        | 65    | 25   | 54    | 21   | 27   | 11   |
| 3833 | Raspberry-LT          | 54    | 20   | 45    | 17   | 23   | 8    |
| 3853 | Autumn Gold-DK        | 167   | 65   | 140   | 54   | 70   | 27   |
| 3854 | Autumn Gold-MD        | 23    | 9    | 20    | 8    | 10   | 4    |
| 3857 | Rosewood-DK           | 265   | 103  | 221   | 86   | 110  | 43   |
| 3861 | Cocoa-LT              | 99    | 38   | 83    | 32   | 41   | 16   |
| 3862 | Mocha Beige-DK        | 779   | 306  | 650   | 255  | 325  | 128  |

| Extended thread usage table. |                       |            |              |            |              |            |              |
|------------------------------|-----------------------|------------|--------------|------------|--------------|------------|--------------|
| DMC                          | Name                  | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
|                              |                       | 25         |              | 26         |              | 27         |              |
| 221                          | Shell Pink-VY DK      | 243        | 96           | 234        | 92           | 225        | 89           |
| 223                          | Shell Pink-LT         | 12         | 4            | 11         | 4            | 11         | 4            |
| 310                          | Black                 | 5314       | 2092         | 5109       | 2011         | 4920       | 1937         |
| 319                          | Pistachio Green-VY DK | 143        | 55           | 137        | 53           | 132        | 51           |
| 326                          | Rose-VY DK            | 273        | 107          | 262        | 103          | 253        | 99           |
| 347                          | Salmon-VY DK          | 857        | 337          | 824        | 324          | 793        | 312          |
| 350                          | Coral-MD              | 487        | 192          | 468        | 184          | 451        | 177          |
| 351                          | Coral                 | 133        | 52           | 128        | 50           | 123        | 48           |
| 352                          | Coral-LT              | 19         | 7            | 18         | 7            | 17         | 7            |
| 356                          | Terra Cotta-MD        | 20         | 8            | 19         | 8            | 19         | 7            |
| 371                          | Mustard               | 388        | 153          | 373        | 147          | 359        | 141          |
| 372                          | Mustard-LT            | 291        | 114          | 280        | 110          | 269        | 106          |
| 402                          | Mahogany-VY LT        | 16         | 6            | 15         | 6            | 15         | 5            |
| 415                          | Pearl Gray            | 68         | 27           | 65         | 26           | 63         | 25           |
| 420                          | Hazelnut Brown-DK     | 390        | 153          | 375        | 147          | 361        | 141          |
| 433                          | Brown-MD              | 186        | 73           | 179        | 70           | 173        | 67           |
| 451                          | Shell Gray-DK         | 32         | 12           | 30         | 12           | 29         | 11           |

|      |                      |      |     |      |     |      |     |
|------|----------------------|------|-----|------|-----|------|-----|
| 471  | Avocado Green-VY LT  | 35   | 13  | 33   | 12  | 32   | 12  |
| 472  | Avocado Green-UL LT  | 5    | 1   | 5    | 1   | 5    | 1   |
| 500  | Blue Green-VY DK     | 379  | 149 | 364  | 143 | 351  | 138 |
| 502  | Blue Green           | 248  | 97  | 238  | 93  | 229  | 90  |
| 503  | Blue Green-MD        | 226  | 89  | 217  | 85  | 209  | 82  |
| 520  | Fern Green-DK        | 414  | 163 | 398  | 156 | 383  | 151 |
| 522  | Fern Green           | 212  | 84  | 204  | 80  | 197  | 77  |
| 523  | Fern Green-LT        | 356  | 140 | 343  | 134 | 330  | 129 |
| 524  | Fern Green-VY LT     | 346  | 135 | 332  | 130 | 320  | 125 |
| 610  | Drab Brown-DK        | 182  | 71  | 175  | 69  | 169  | 66  |
| 611  | Drab Brown           | 368  | 145 | 354  | 139 | 341  | 134 |
| 613  | Drab Brown-VY LT     | 372  | 146 | 358  | 141 | 345  | 135 |
| 632  | Desert Sand-UL VY DK | 133  | 52  | 128  | 50  | 123  | 48  |
| 640  | Beige Gray-VY DK     | 104  | 40  | 100  | 39  | 96   | 37  |
| 642  | Beige Gray-DK        | 192  | 75  | 184  | 72  | 177  | 69  |
| 644  | Beige Gray-MD        | 106  | 41  | 102  | 39  | 98   | 38  |
| 645  | Beaver Gray-VY DK    | 233  | 91  | 224  | 88  | 216  | 85  |
| 646  | Beaver Gray-DK       | 250  | 98  | 240  | 94  | 231  | 91  |
| 699  | Christmas Green      | 96   | 37  | 93   | 36  | 89   | 35  |
| 704  | Chartreuse-BRT       | 15   | 6   | 15   | 6   | 14   | 5   |
| 721  | Orange Spice-MD      | 48   | 19  | 46   | 18  | 45   | 17  |
| 772  | Yellow Green-VY LT   | 535  | 210 | 514  | 202 | 495  | 195 |
| 800  | Delft Blue-Pale      | 6    | 2   | 6    | 2   | 6    | 2   |
| 801  | Coffee Brown-DK      | 139  | 54  | 134  | 52  | 129  | 50  |
| 814  | Garnet-DK            | 945  | 372 | 909  | 357 | 875  | 344 |
| 815  | Garnet-MD            | 441  | 174 | 424  | 167 | 409  | 161 |
| 816  | Garnet               | 190  | 74  | 183  | 71  | 176  | 69  |
| 822  | Beige Gray-LT        | 105  | 41  | 101  | 39  | 97   | 38  |
| 829  | Golden Olive-VY DK   | 102  | 40  | 98   | 38  | 94   | 37  |
| 830  | Golden Olive-DK      | 203  | 80  | 195  | 77  | 188  | 74  |
| 833  | Golden Olive-LT      | 28   | 11  | 27   | 10  | 26   | 10  |
| 838  | Beige Brown-VY DK    | 131  | 51  | 126  | 49  | 121  | 47  |
| 839  | Beige Brown-DK       | 173  | 68  | 166  | 65  | 160  | 63  |
| 869  | Hazelnut Brown-VY DK | 222  | 87  | 213  | 84  | 205  | 81  |
| 895  | Hunter Green-VY DK   | 76   | 30  | 73   | 28  | 71   | 27  |
| 898  | Coffee Brown-VY DK   | 128  | 50  | 123  | 48  | 119  | 47  |
| 900  | Burnt Orange-DK      | 505  | 199 | 486  | 191 | 468  | 184 |
| 902  | Garnet-VY DK         | 37   | 14  | 36   | 14  | 35   | 13  |
| 919  | Red Copper           | 419  | 165 | 403  | 159 | 388  | 153 |
| 920  | Copper-MD            | 114  | 45  | 109  | 43  | 105  | 41  |
| 921  | Copper               | 132  | 52  | 127  | 50  | 122  | 48  |
| 926  | Gray Green-MD        | 145  | 57  | 140  | 55  | 135  | 53  |
| 927  | Gray Green-LT        | 297  | 117 | 286  | 112 | 275  | 108 |
| 928  | Gray Green-VY LT     | 402  | 158 | 387  | 152 | 373  | 147 |
| 934  | Black Avocado Green  | 258  | 101 | 248  | 97  | 239  | 93  |
| 938  | Coffee Brown-UL DK   | 1216 | 478 | 1169 | 460 | 1126 | 443 |
| 975  | Golden Brown-DK      | 83   | 32  | 80   | 31  | 77   | 30  |
| 977  | Golden Brown-LT      | 41   | 16  | 39   | 15  | 38   | 15  |
| 986  | Forest Green-VY DK   | 58   | 22  | 56   | 21  | 54   | 21  |
| 987  | Forest Green-DK      | 103  | 40  | 99   | 39  | 95   | 37  |
| 3011 | Khaki Green-DK       | 565  | 222 | 543  | 214 | 523  | 206 |
| 3012 | Khaki Green-MD       | 240  | 94  | 231  | 91  | 222  | 87  |
| 3013 | Khaki Green-LT       | 242  | 95  | 233  | 91  | 224  | 88  |
| 3021 | Brown Gray-VY DK     | 279  | 109 | 269  | 105 | 259  | 101 |
| 3031 | Mocha Brown-VY DK    | 300  | 117 | 288  | 113 | 277  | 109 |
| 3046 | Yellow Beige-MD      | 275  | 108 | 264  | 104 | 255  | 100 |
| 3052 | Green Gray-MD        | 314  | 123 | 302  | 118 | 291  | 114 |
| 3072 | Beaver Gray-VY LT    | 149  | 58  | 143  | 56  | 138  | 54  |
| 3340 | Apricot-MD           | 46   | 18  | 44   | 17  | 43   | 17  |

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|      |                       |      |      |      |      |      |      |
|------|-----------------------|------|------|------|------|------|------|
| 3346 | Hunter Green          | 142  | 55   | 136  | 53   | 131  | 51   |
| 3347 | Yellow Green-MD       | 63   | 24   | 61   | 24   | 59   | 23   |
| 3348 | Yellow Green-LT       | 273  | 107  | 262  | 103  | 253  | 99   |
| 3362 | Pine Green-DK         | 55   | 22   | 53   | 21   | 51   | 20   |
| 3364 | Pine Green            | 233  | 91   | 224  | 88   | 216  | 85   |
| 3371 | Black Brown           | 5116 | 2014 | 4919 | 1936 | 4737 | 1865 |
| 3712 | Salmon-MD             | 52   | 20   | 50   | 19   | 48   | 19   |
| 3721 | Shell Pink-DK         | 35   | 13   | 33   | 12   | 32   | 12   |
| 3753 | Antique Blue-UL VY LT | 35   | 13   | 33   | 12   | 32   | 12   |
| 3768 | Gray Green-DK         | 117  | 46   | 113  | 44   | 109  | 43   |
| 3772 | Desert Sand-VY DK     | 92   | 36   | 89   | 35   | 85   | 33   |
| 3777 | Terra Cotta-VY DK     | 426  | 168  | 410  | 161  | 395  | 155  |
| 3781 | Mocha Brown-DK        | 348  | 137  | 334  | 132  | 322  | 127  |
| 3787 | Brown Gray -DK        | 344  | 135  | 331  | 130  | 319  | 125  |
| 3790 | Beige Gray-UL DK      | 380  | 149  | 366  | 143  | 352  | 138  |
| 3799 | Pewter Gray-VY DK     | 222  | 87   | 213  | 84   | 205  | 81   |
| 3828 | Hazelnut Brown        | 51   | 19   | 49   | 19   | 47   | 18   |
| 3829 | Old Gold-VY DK        | 26   | 10   | 25   | 10   | 24   | 9    |
| 3833 | Raspberry-LT          | 22   | 8    | 21   | 8    | 20   | 7    |
| 3853 | Autumn Gold-DK        | 67   | 26   | 64   | 25   | 62   | 24   |
| 3854 | Autumn Gold-MD        | 9    | 4    | 9    | 3    | 9    | 3    |
| 3857 | Rosewood-DK           | 106  | 41   | 102  | 39   | 98   | 38   |
| 3861 | Cocoa-LT              | 40   | 15   | 38   | 15   | 37   | 14   |
| 3862 | Mocha Beige-DK        | 312  | 122  | 300  | 118  | 289  | 113  |

| Extended thread usage table. |                       |            |              |            |              |            |              |
|------------------------------|-----------------------|------------|--------------|------------|--------------|------------|--------------|
| DMC                          | Name                  | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
|                              |                       | 28         |              | 30         |              | 32         |              |
| 221                          | Shell Pink-VY DK      | 217        | 86           | 203        | 80           | 190        | 75           |
| 223                          | Shell Pink-LT         | 10         | 4            | 10         | 4            | 9          | 3            |
| 310                          | Black                 | 4744       | 1868         | 4428       | 1743         | 4151       | 1634         |
| 319                          | Pistachio Green-VY DK | 127        | 50           | 119        | 46           | 111        | 43           |
| 326                          | Rose-VY DK            | 244        | 96           | 227        | 89           | 213        | 84           |
| 347                          | Salmon-VY DK          | 765        | 301          | 714        | 281          | 669        | 263          |
| 350                          | Coral-MD              | 435        | 171          | 406        | 160          | 380        | 150          |
| 351                          | Coral                 | 119        | 46           | 111        | 43           | 104        | 41           |
| 352                          | Coral-LT              | 17         | 6            | 16         | 6            | 15         | 6            |
| 356                          | Terra Cotta-MD        | 18         | 7            | 17         | 7            | 16         | 6            |
| 371                          | Mustard               | 347        | 136          | 323        | 127          | 303        | 119          |
| 372                          | Mustard-LT            | 260        | 102          | 242        | 95           | 227        | 89           |
| 402                          | Mahogany-VY LT        | 14         | 5            | 13         | 5            | 12         | 5            |
| 415                          | Pearl Gray            | 60         | 24           | 56         | 22           | 53         | 21           |
| 420                          | Hazelnut Brown-DK     | 348        | 136          | 325        | 127          | 304        | 119          |
| 433                          | Brown-MD              | 167        | 65           | 155        | 61           | 146        | 57           |
| 451                          | Shell Gray-DK         | 28         | 11           | 26         | 10           | 25         | 10           |
| 471                          | Avocado Green-VY LT   | 31         | 12           | 29         | 11           | 27         | 10           |
| 472                          | Avocado Green-UL LT   | 5          | 1            | 4          | 1            | 4          | 1            |
| 500                          | Blue Green-VY DK      | 338        | 133          | 316        | 124          | 296        | 116          |
| 502                          | Blue Green            | 221        | 87           | 206        | 81           | 194        | 76           |
| 503                          | Blue Green-MD         | 202        | 79           | 188        | 74           | 177        | 69           |
| 520                          | Fern Green-DK         | 370        | 145          | 345        | 136          | 323        | 127          |
| 522                          | Fern Green            | 190        | 75           | 177        | 70           | 166        | 65           |
| 523                          | Fern Green-LT         | 318        | 125          | 297        | 116          | 278        | 109          |
| 524                          | Fern Green-VY LT      | 309        | 121          | 288        | 113          | 270        | 106          |
| 610                          | Drab Brown-DK         | 163        | 64           | 152        | 59           | 142        | 56           |
| 611                          | Drab Brown            | 329        | 129          | 307        | 121          | 287        | 113          |
| 613                          | Drab Brown-VY LT      | 332        | 131          | 310        | 122          | 291        | 114          |

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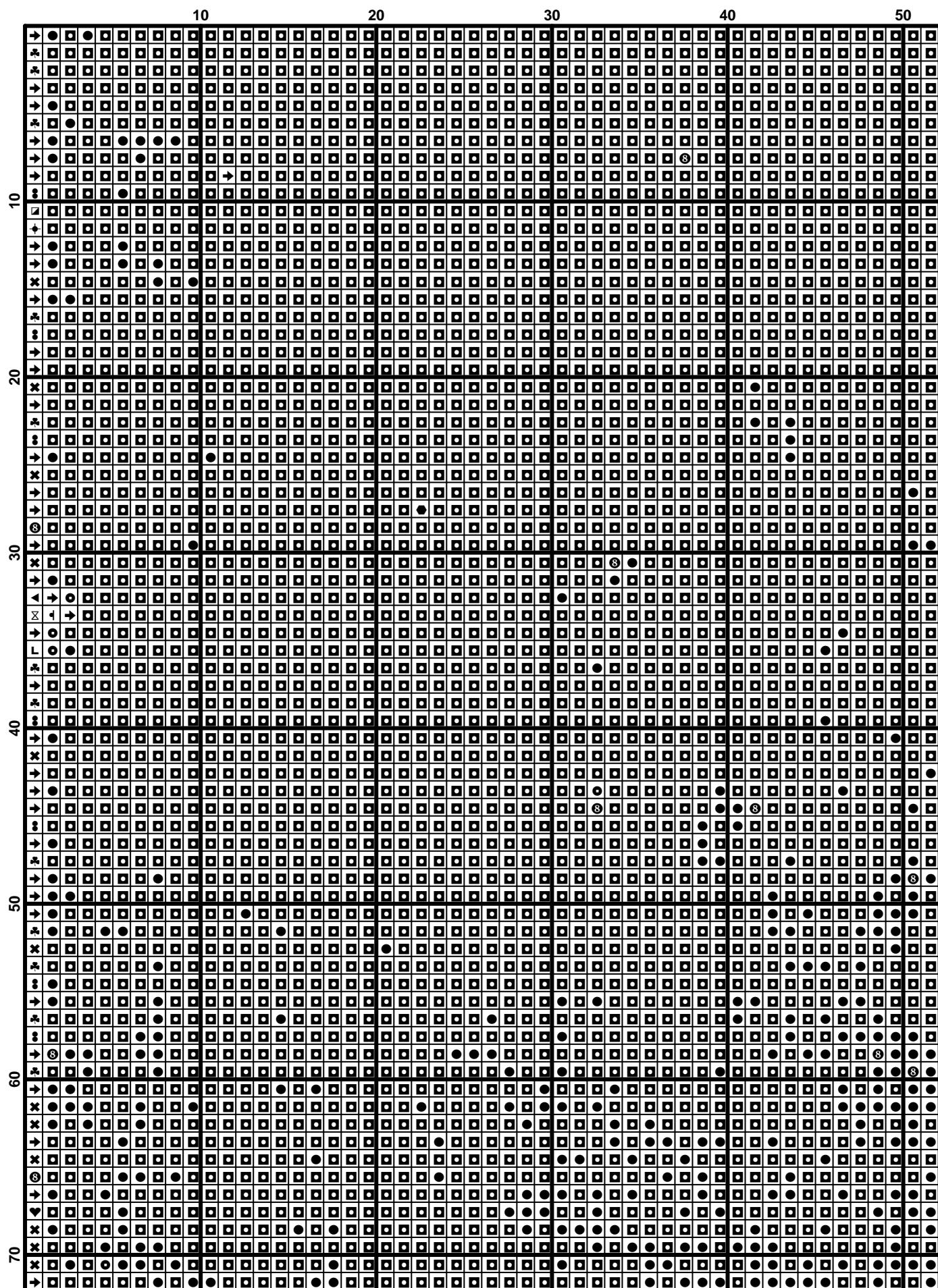
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|------|-----------------------|------|------|------|------|------|------|
| 632  | Desert Sand-UL VY DK  | 119  | 46   | 111  | 43   | 104  | 41   |
| 640  | Beige Gray-VY DK      | 93   | 36   | 86   | 34   | 81   | 32   |
| 642  | Beige Gray-DK         | 171  | 67   | 160  | 62   | 150  | 59   |
| 644  | Beige Gray-MD         | 95   | 37   | 88   | 34   | 83   | 32   |
| 645  | Beaver Gray-VY DK     | 208  | 82   | 194  | 76   | 182  | 71   |
| 646  | Beaver Gray-DK        | 223  | 87   | 208  | 82   | 195  | 77   |
| 699  | Christmas Green       | 86   | 33   | 80   | 31   | 75   | 29   |
| 704  | Chartreuse-BRT        | 14   | 5    | 13   | 5    | 12   | 5    |
| 721  | Orange Spice-MD       | 43   | 17   | 40   | 16   | 38   | 15   |
| 772  | Yellow Green-VY LT    | 478  | 188  | 446  | 175  | 418  | 164  |
| 800  | Delft Blue-Pale       | 6    | 2    | 5    | 2    | 5    | 2    |
| 801  | Coffee Brown-DK       | 124  | 48   | 116  | 45   | 109  | 42   |
| 814  | Garnet-DK             | 844  | 332  | 788  | 310  | 739  | 290  |
| 815  | Garnet-MD             | 394  | 155  | 368  | 145  | 345  | 136  |
| 816  | Garnet                | 170  | 66   | 158  | 62   | 149  | 58   |
| 822  | Beige Gray-LT         | 94   | 37   | 88   | 34   | 82   | 32   |
| 829  | Golden Olive-VY DK    | 91   | 35   | 85   | 33   | 79   | 31   |
| 830  | Golden Olive-DK       | 181  | 71   | 169  | 67   | 159  | 62   |
| 833  | Golden Olive-LT       | 25   | 10   | 23   | 9    | 22   | 8    |
| 838  | Beige Brown-VY DK     | 117  | 46   | 109  | 43   | 102  | 40   |
| 839  | Beige Brown-DK        | 154  | 60   | 144  | 56   | 135  | 53   |
| 869  | Hazelnut Brown-VY DK  | 198  | 78   | 185  | 73   | 173  | 68   |
| 895  | Hunter Green-VY DK    | 68   | 26   | 64   | 25   | 60   | 23   |
| 898  | Coffee Brown-VY DK    | 114  | 45   | 107  | 42   | 100  | 39   |
| 900  | Burnt Orange-DK       | 451  | 177  | 421  | 166  | 395  | 155  |
| 902  | Garnet-VY DK          | 33   | 13   | 31   | 12   | 29   | 11   |
| 919  | Red Copper            | 374  | 147  | 349  | 137  | 327  | 129  |
| 920  | Copper-MD             | 102  | 40   | 95   | 37   | 89   | 35   |
| 921  | Copper                | 118  | 46   | 110  | 43   | 103  | 41   |
| 926  | Gray Green-MD         | 130  | 51   | 121  | 47   | 114  | 44   |
| 927  | Gray Green-LT         | 266  | 104  | 248  | 97   | 232  | 91   |
| 928  | Gray Green-VY LT      | 359  | 141  | 335  | 132  | 314  | 124  |
| 934  | Black Avocado Green   | 230  | 90   | 215  | 84   | 201  | 79   |
| 938  | Coffee Brown-UL DK    | 1086 | 427  | 1013 | 398  | 950  | 374  |
| 975  | Golden Brown-DK       | 74   | 29   | 69   | 27   | 65   | 25   |
| 977  | Golden Brown-LT       | 37   | 14   | 34   | 13   | 32   | 12   |
| 986  | Forest Green-VY DK    | 52   | 20   | 49   | 19   | 46   | 17   |
| 987  | Forest Green-DK       | 92   | 36   | 86   | 34   | 80   | 32   |
| 3011 | Khaki Green-DK        | 505  | 199  | 471  | 185  | 442  | 174  |
| 3012 | Khaki Green-MD        | 214  | 84   | 200  | 79   | 187  | 74   |
| 3013 | Khaki Green-LT        | 216  | 85   | 202  | 79   | 189  | 74   |
| 3021 | Brown Gray-VY DK      | 249  | 98   | 233  | 91   | 218  | 86   |
| 3031 | Mocha Brown-VY DK     | 267  | 105  | 250  | 98   | 234  | 92   |
| 3046 | Yellow Beige-MD       | 246  | 96   | 229  | 90   | 215  | 84   |
| 3052 | Green Gray-MD         | 280  | 110  | 262  | 103  | 245  | 96   |
| 3072 | Beaver Gray-VY LT     | 133  | 52   | 124  | 49   | 116  | 46   |
| 3340 | Apricot-MD            | 41   | 16   | 38   | 15   | 36   | 14   |
| 3346 | Hunter Green          | 127  | 50   | 118  | 46   | 111  | 43   |
| 3347 | Yellow Green-MD       | 57   | 22   | 53   | 20   | 50   | 19   |
| 3348 | Yellow Green-LT       | 244  | 96   | 227  | 89   | 213  | 84   |
| 3362 | Pine Green-DK         | 50   | 19   | 46   | 18   | 43   | 17   |
| 3364 | Pine Green            | 208  | 82   | 194  | 76   | 182  | 71   |
| 3371 | Black Brown           | 4568 | 1798 | 4263 | 1678 | 3997 | 1573 |
| 3712 | Salmon-MD             | 46   | 18   | 43   | 17   | 41   | 16   |
| 3721 | Shell Pink-DK         | 31   | 12   | 29   | 11   | 27   | 10   |
| 3753 | Antique Blue-UL VY LT | 31   | 12   | 29   | 11   | 27   | 10   |
| 3768 | Gray Green-DK         | 105  | 41   | 98   | 38   | 92   | 36   |
| 3772 | Desert Sand-VY DK     | 82   | 32   | 77   | 30   | 72   | 28   |
| 3777 | Terra Cotta-VY DK     | 381  | 150  | 355  | 140  | 333  | 131  |

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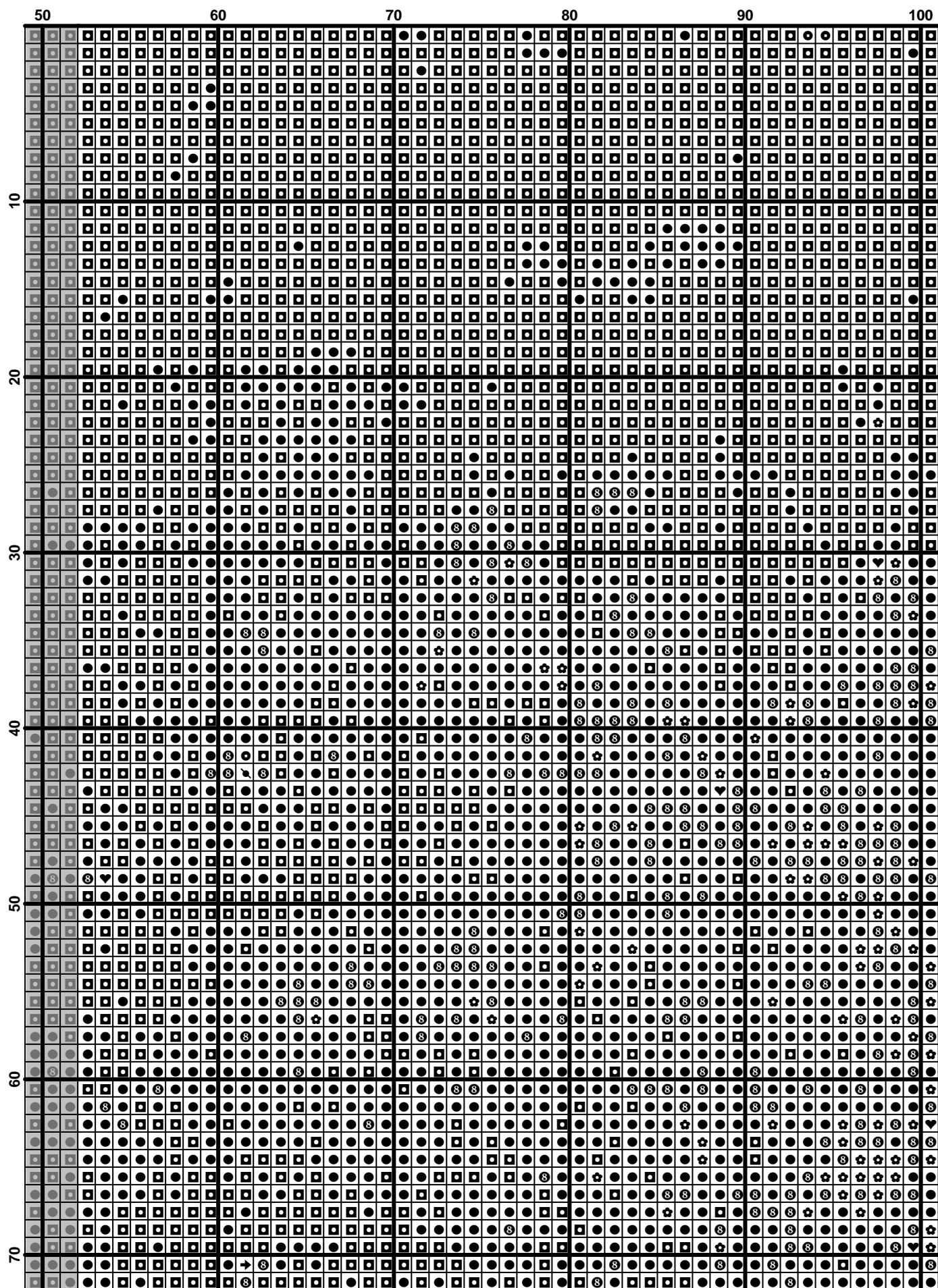
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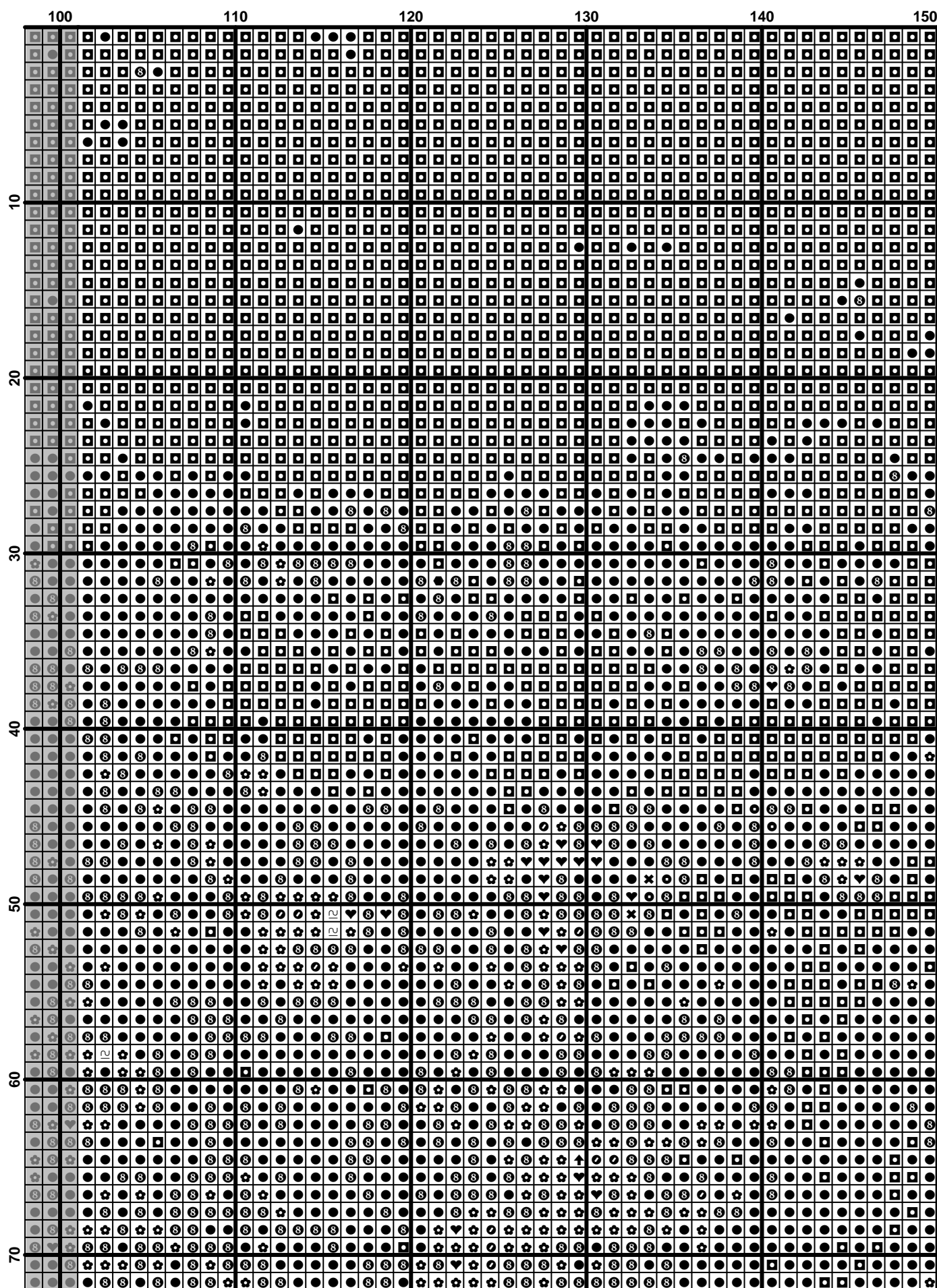
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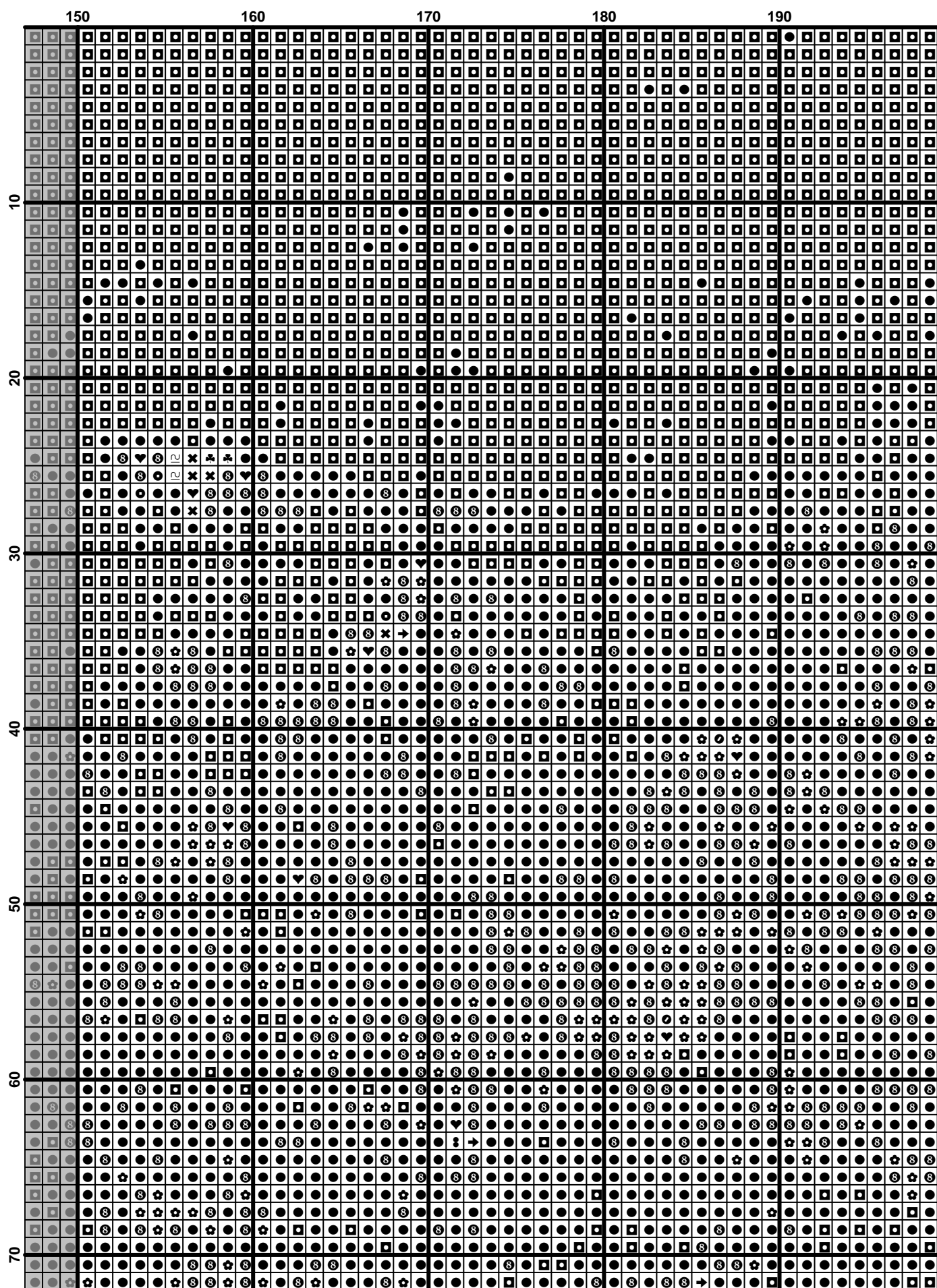
|      |                    |     |     |     |     |     |     |
|------|--------------------|-----|-----|-----|-----|-----|-----|
| 3781 | Mocha Brown-DK     | 311 | 122 | 290 | 114 | 272 | 107 |
| 3787 | Brown Gray -DK     | 307 | 121 | 287 | 113 | 269 | 106 |
| 3790 | Beige Gray-UL DK   | 339 | 133 | 317 | 124 | 297 | 116 |
| 3799 | Pewter Gray -VY DK | 198 | 78  | 185 | 73  | 173 | 68  |
| 3828 | Hazelnut Brown     | 46  | 17  | 43  | 16  | 40  | 15  |
| 3829 | Old Gold-VY DK     | 23  | 9   | 22  | 8   | 20  | 8   |
| 3833 | Raspberry-LT       | 19  | 7   | 18  | 7   | 17  | 6   |
| 3853 | Autumn Gold-DK     | 60  | 23  | 56  | 22  | 52  | 20  |
| 3854 | Autumn Gold-MD     | 8   | 3   | 8   | 3   | 7   | 3   |
| 3857 | Rosewood-DK        | 95  | 37  | 88  | 34  | 83  | 32  |
| 3861 | Cocoa-LT           | 35  | 14  | 33  | 13  | 31  | 12  |
| 3862 | Mocha Beige-DK     | 278 | 109 | 260 | 102 | 244 | 96  |

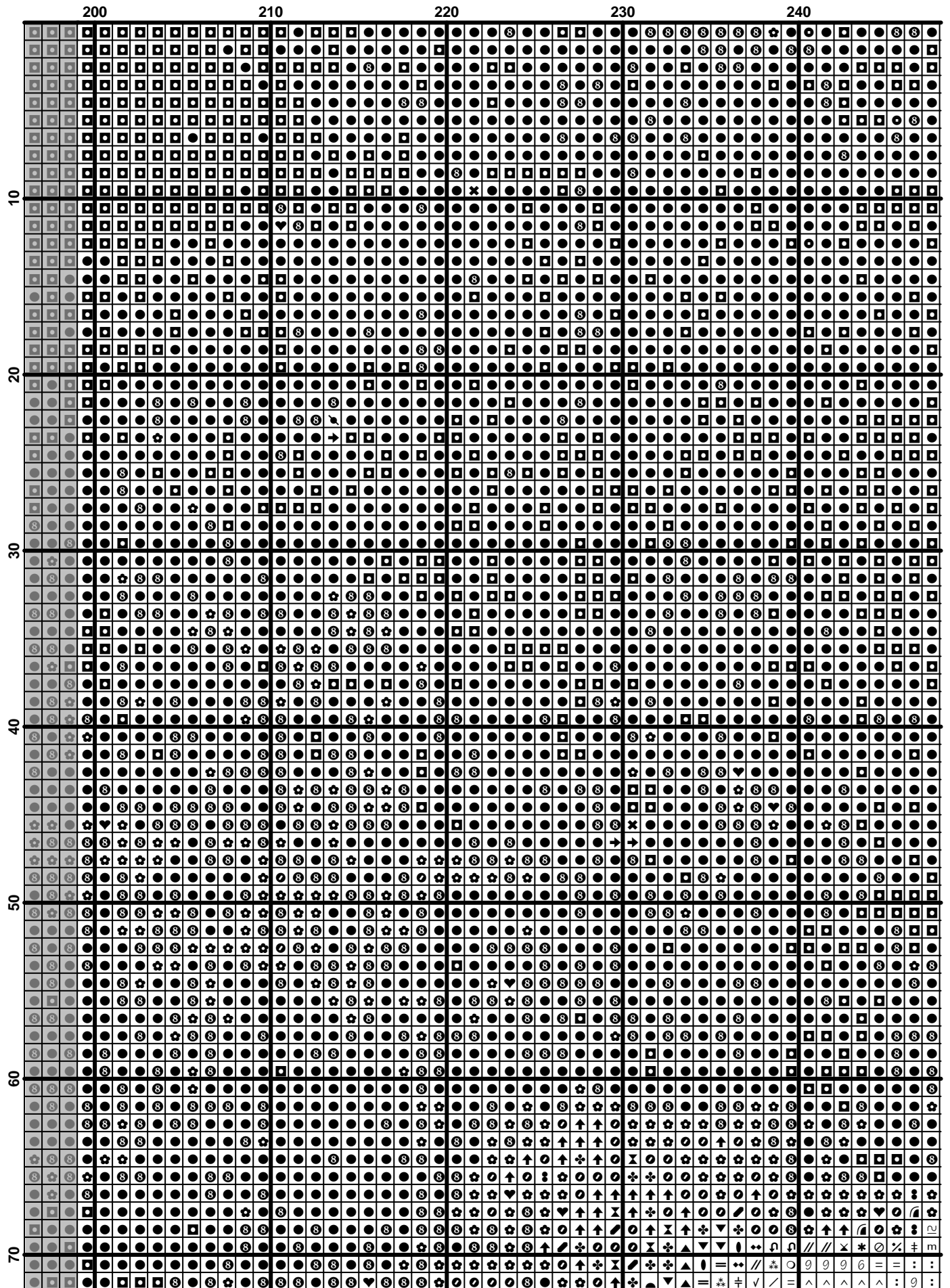


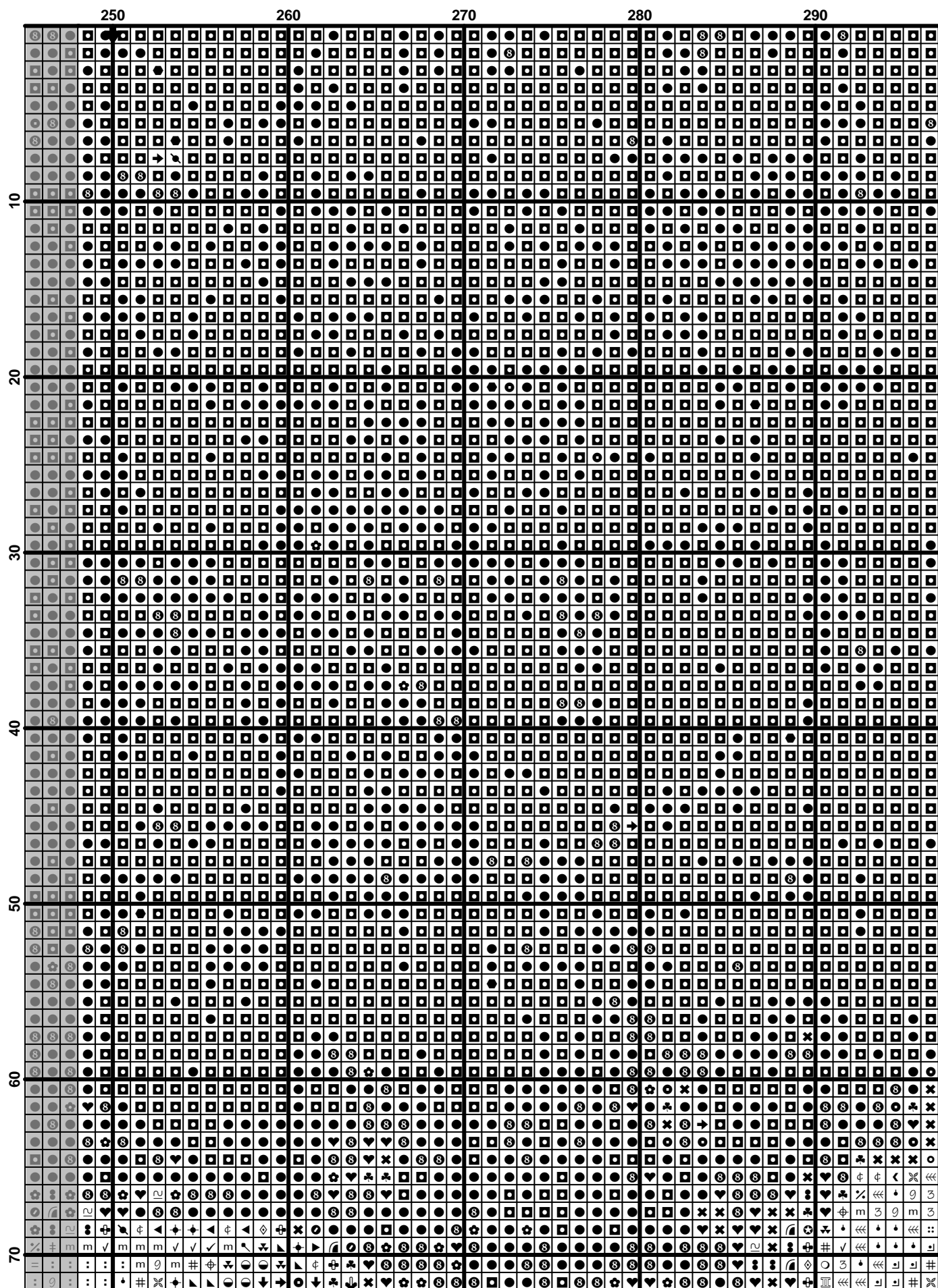


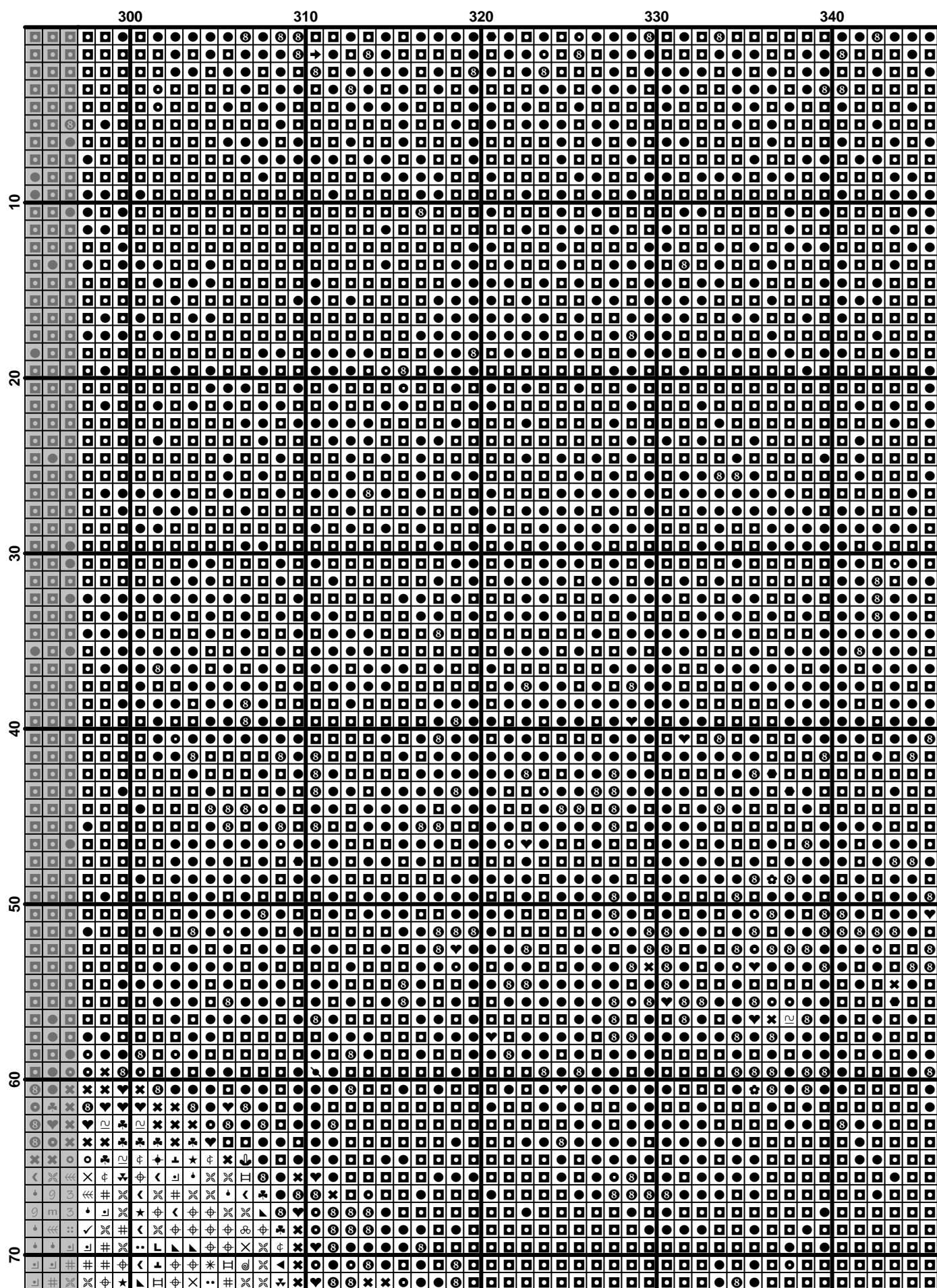


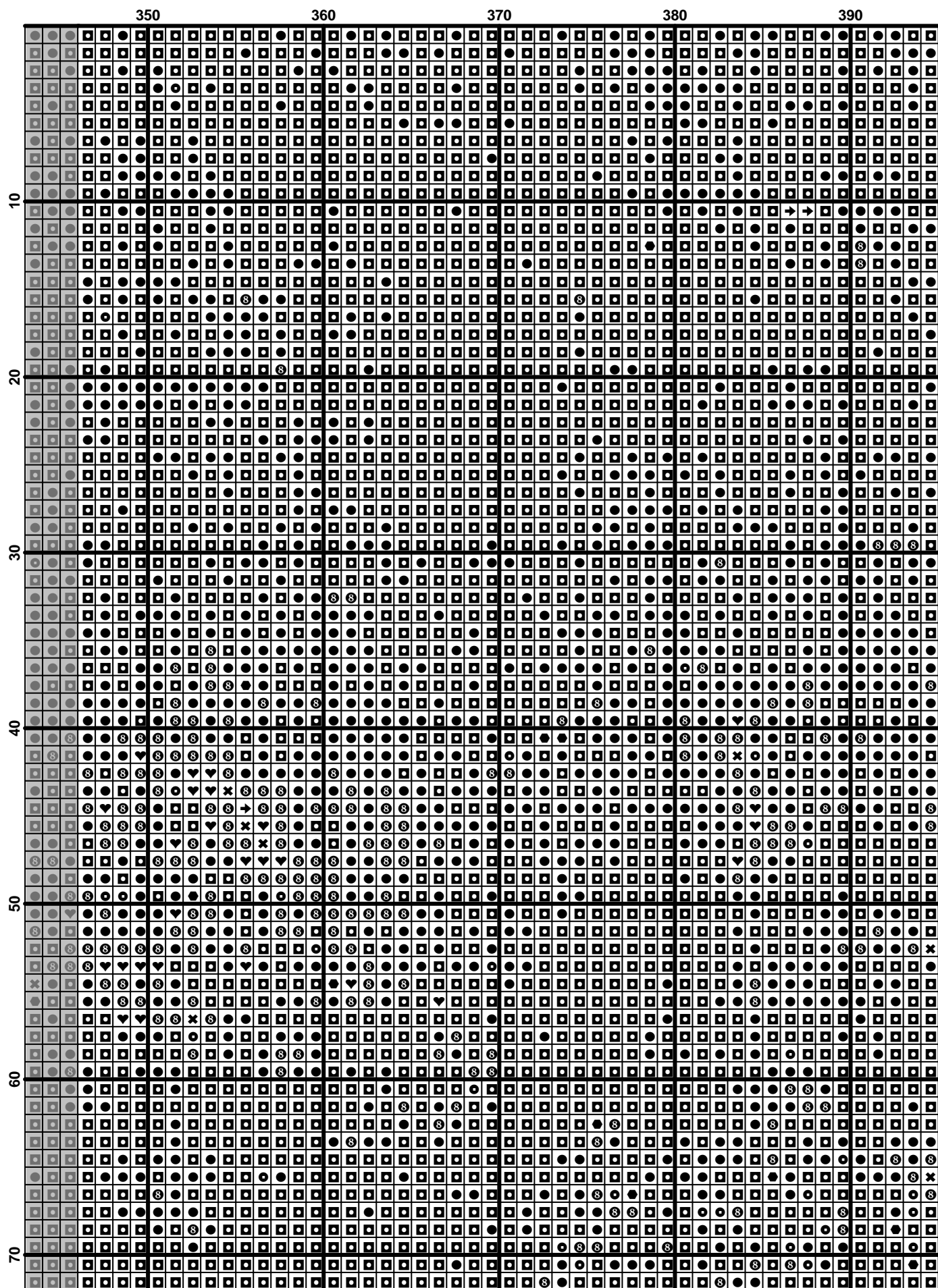




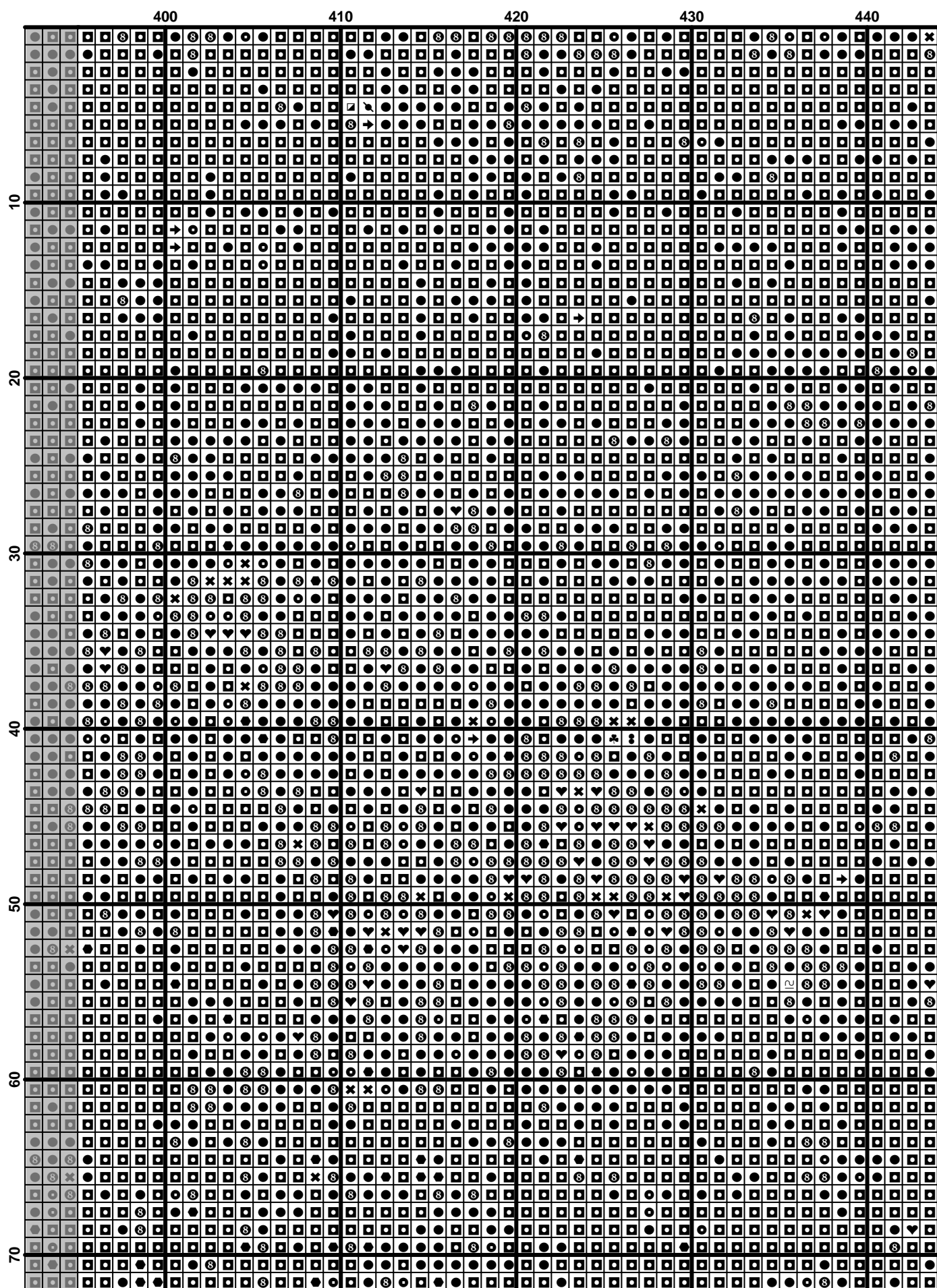


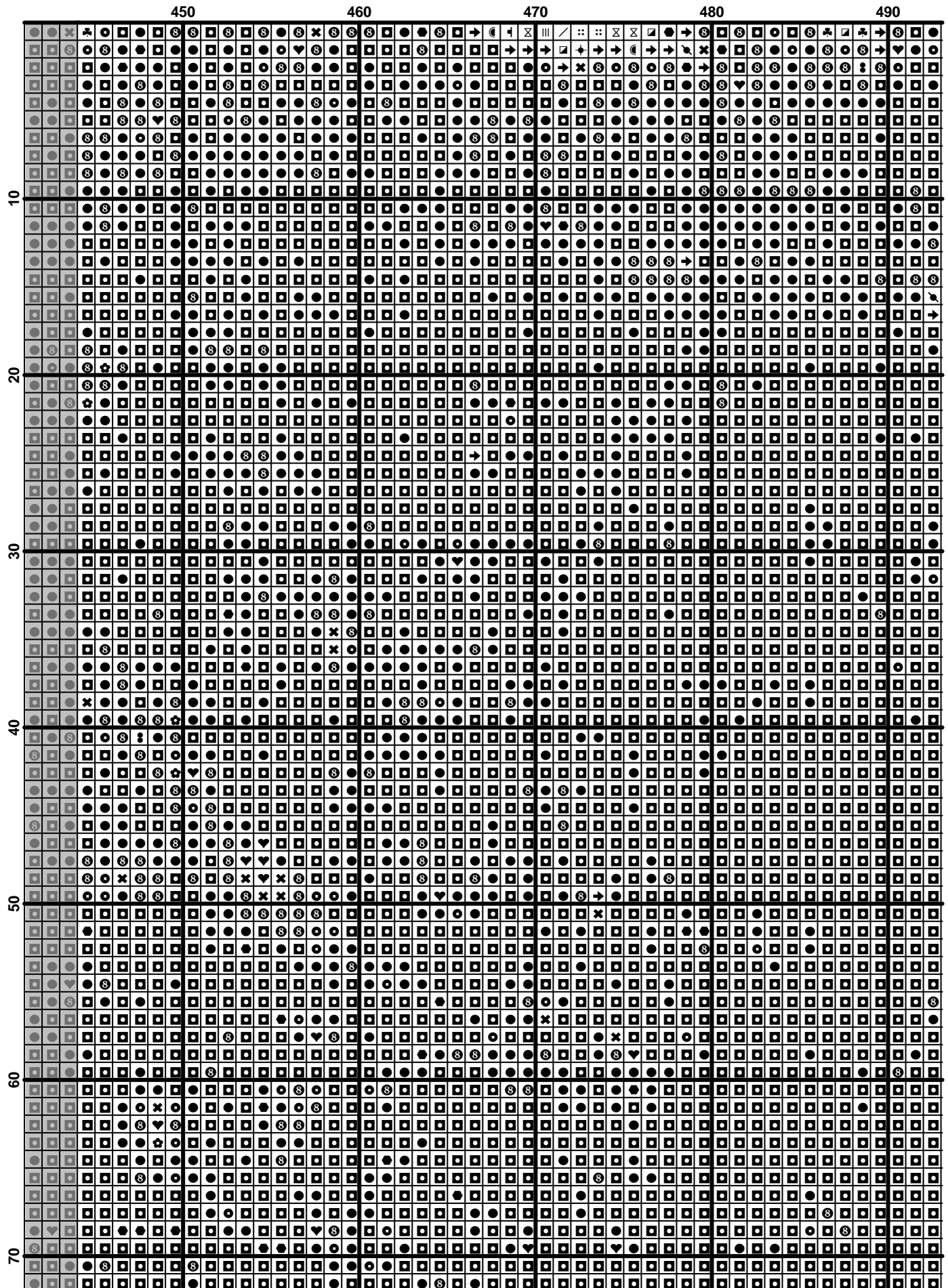


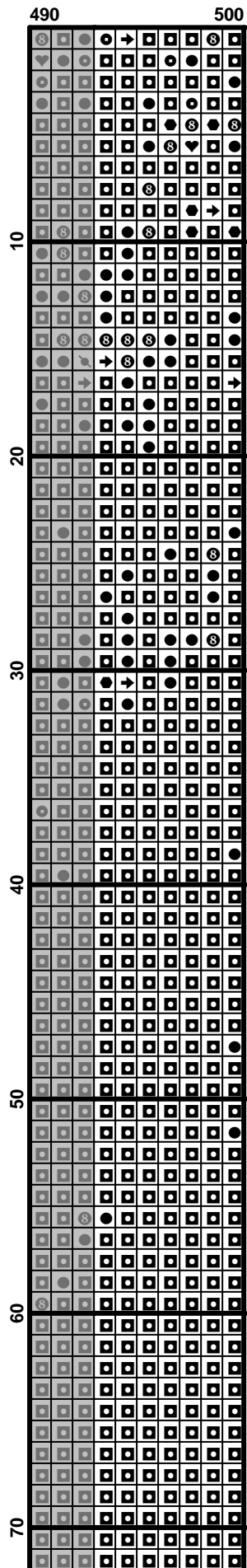


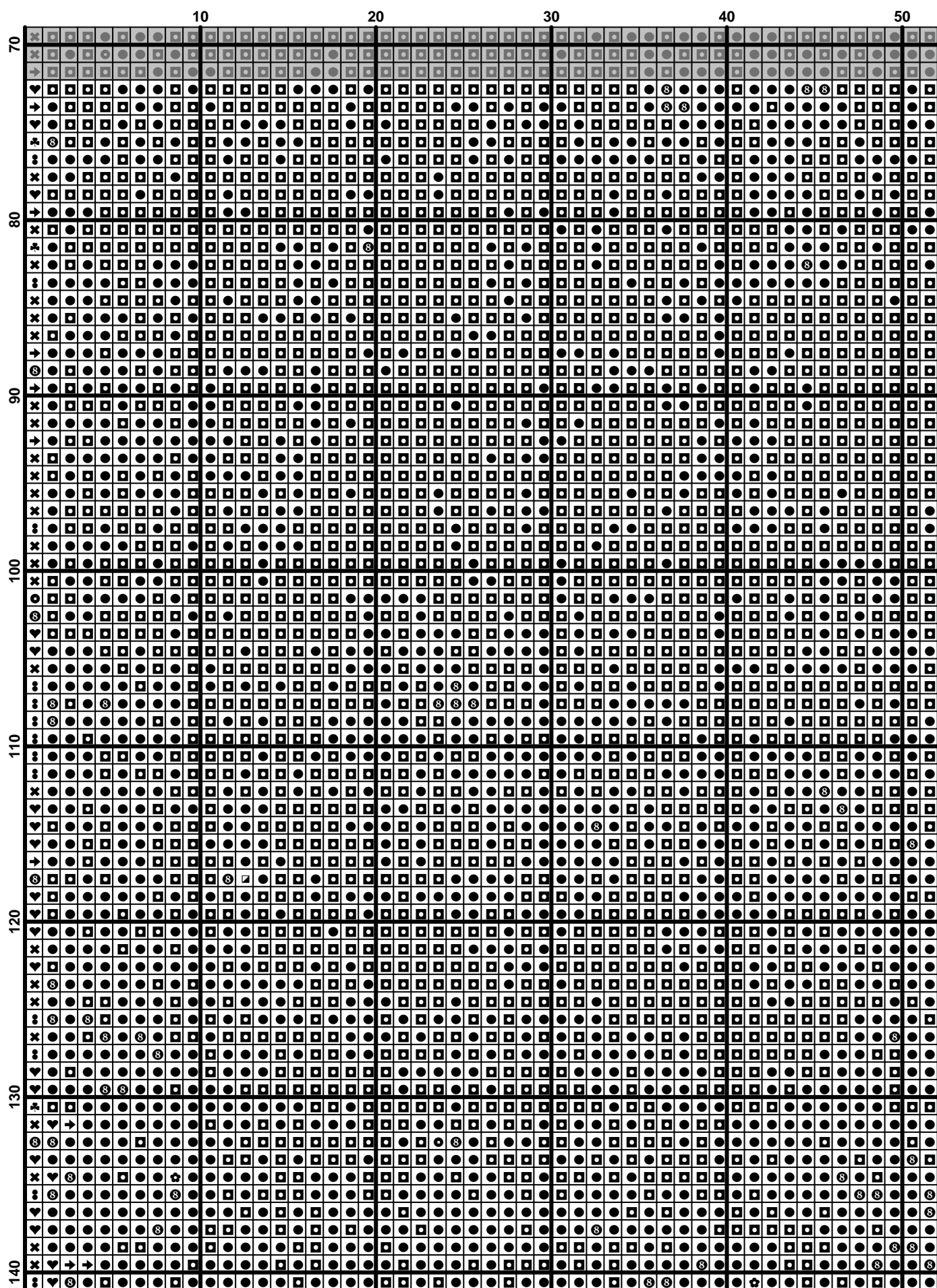


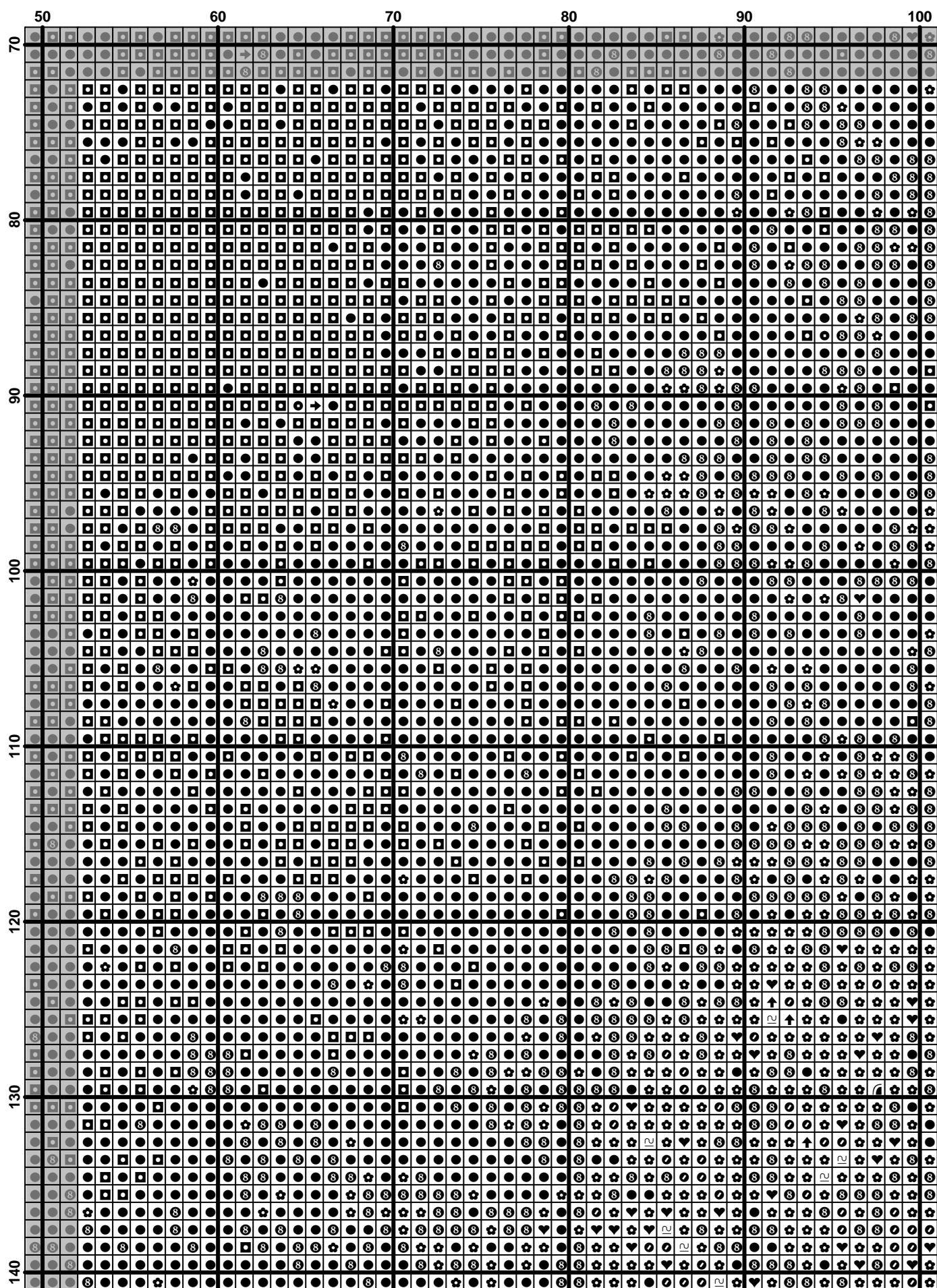


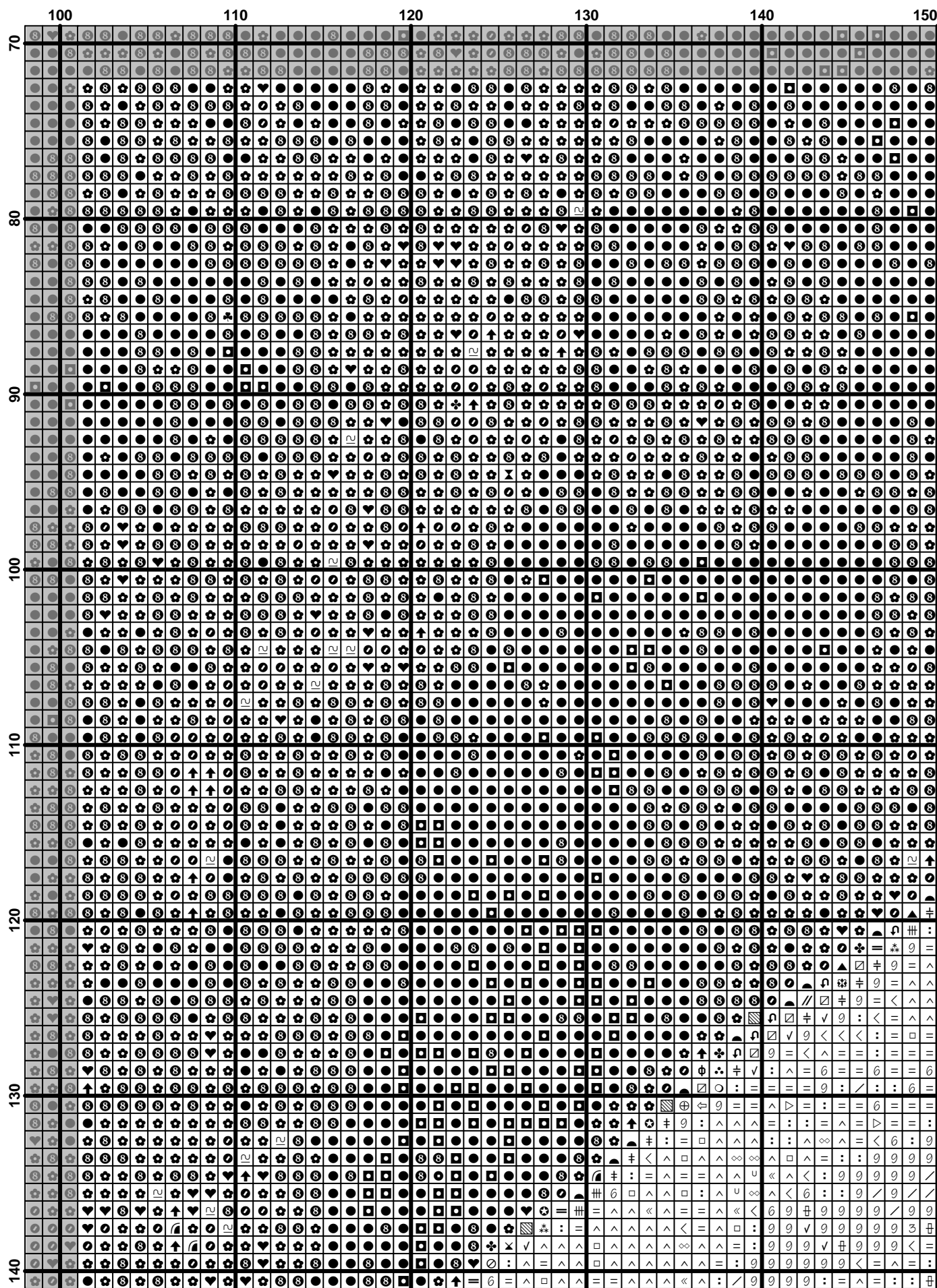


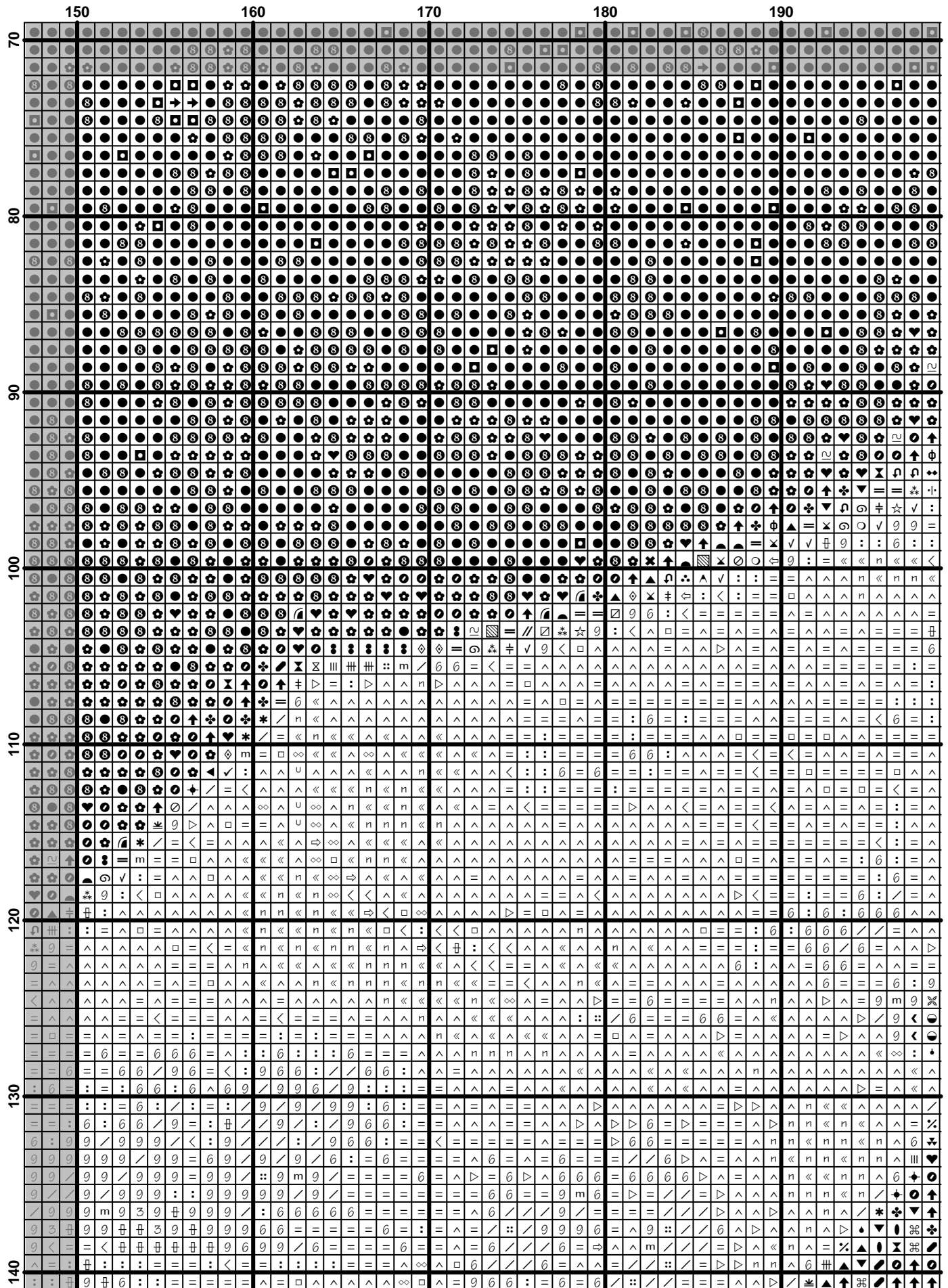




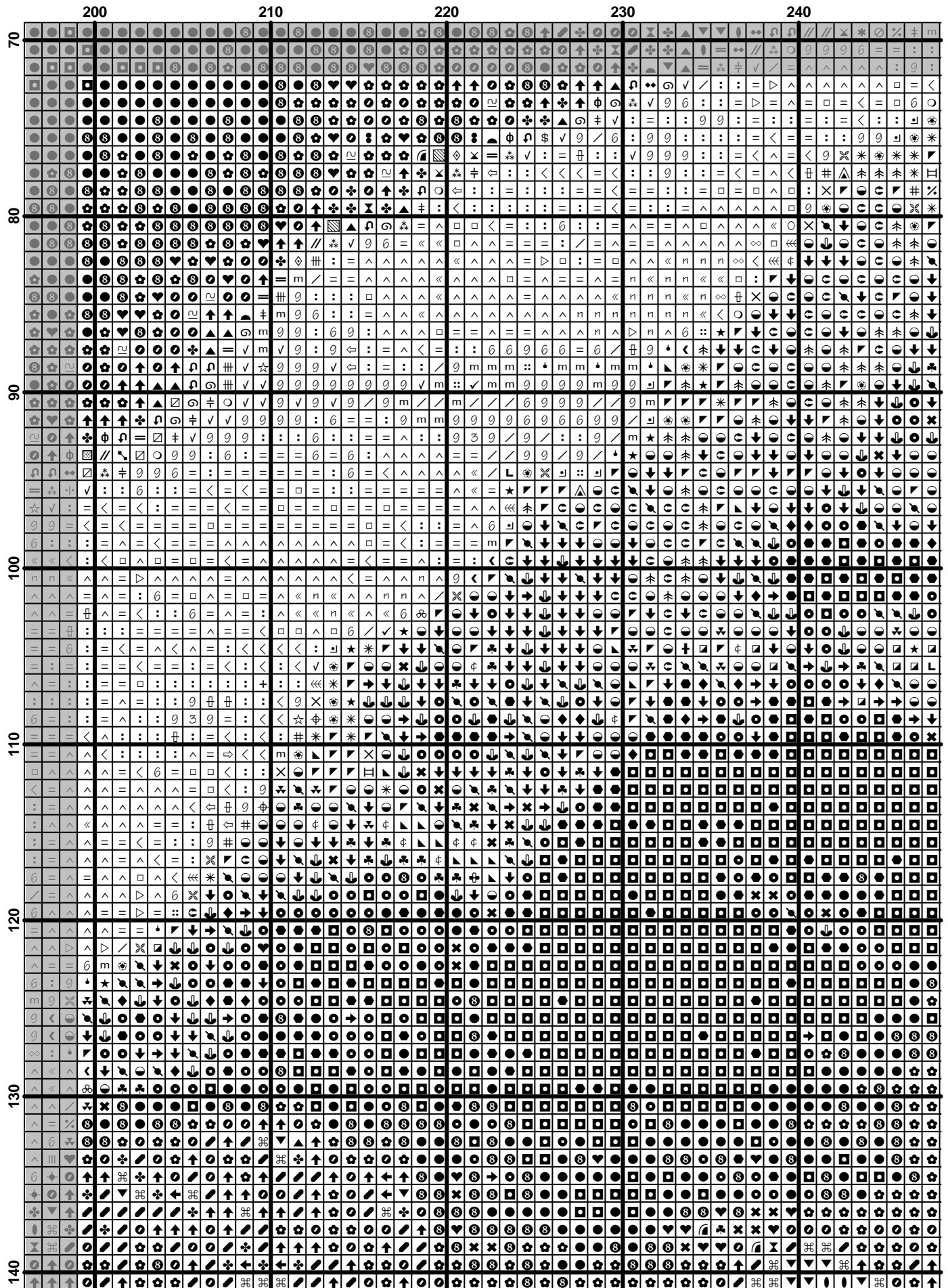


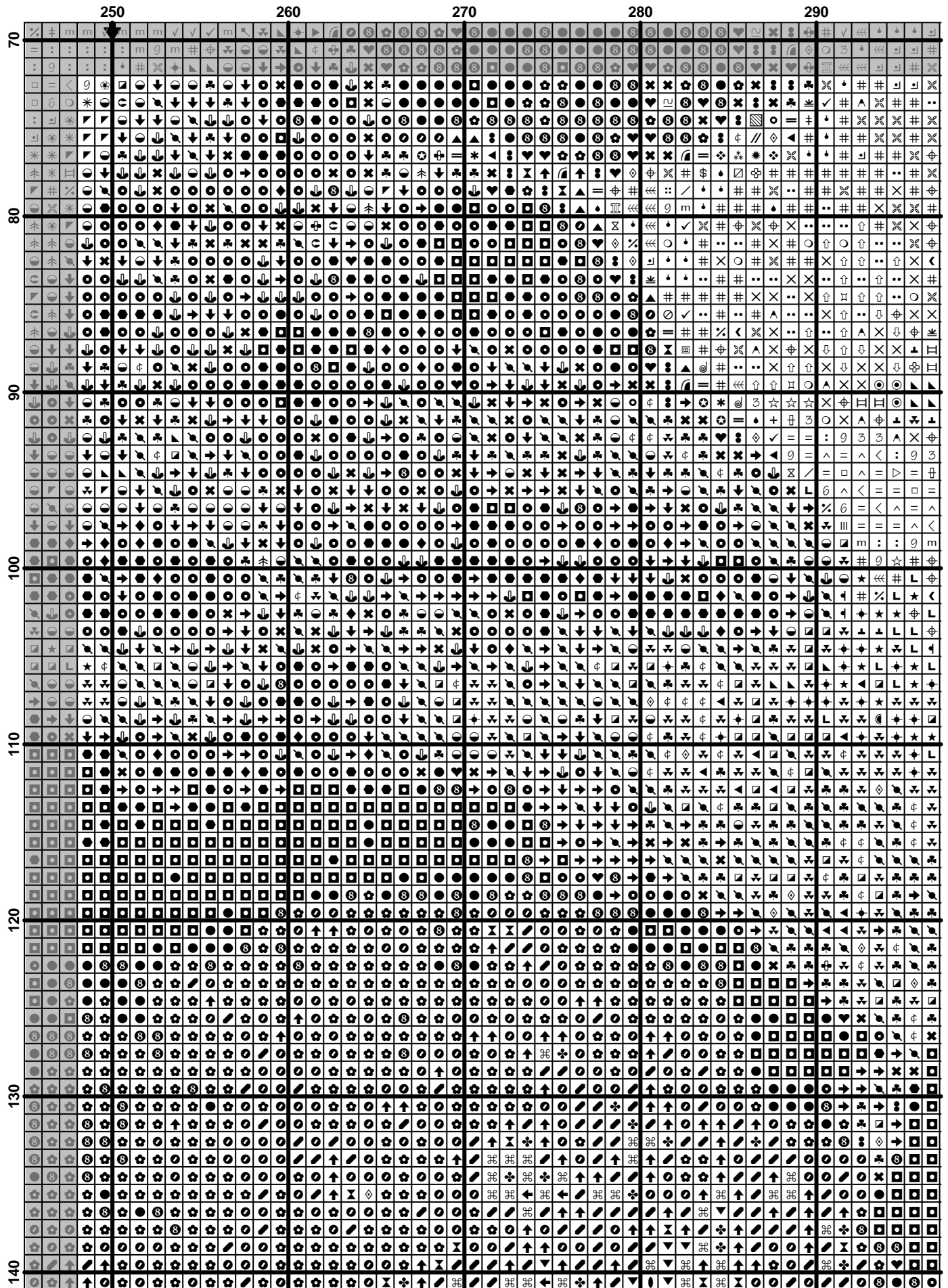


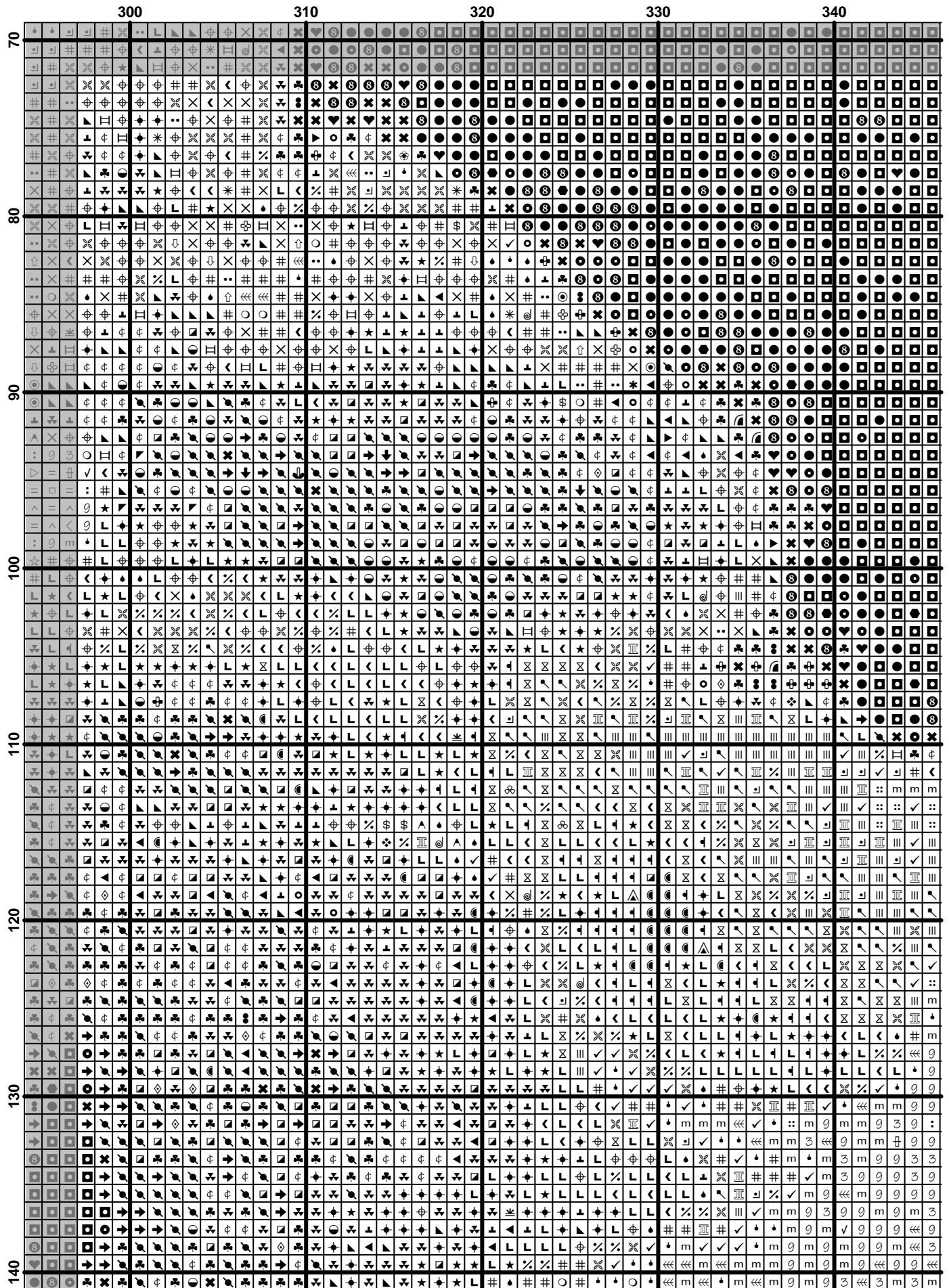


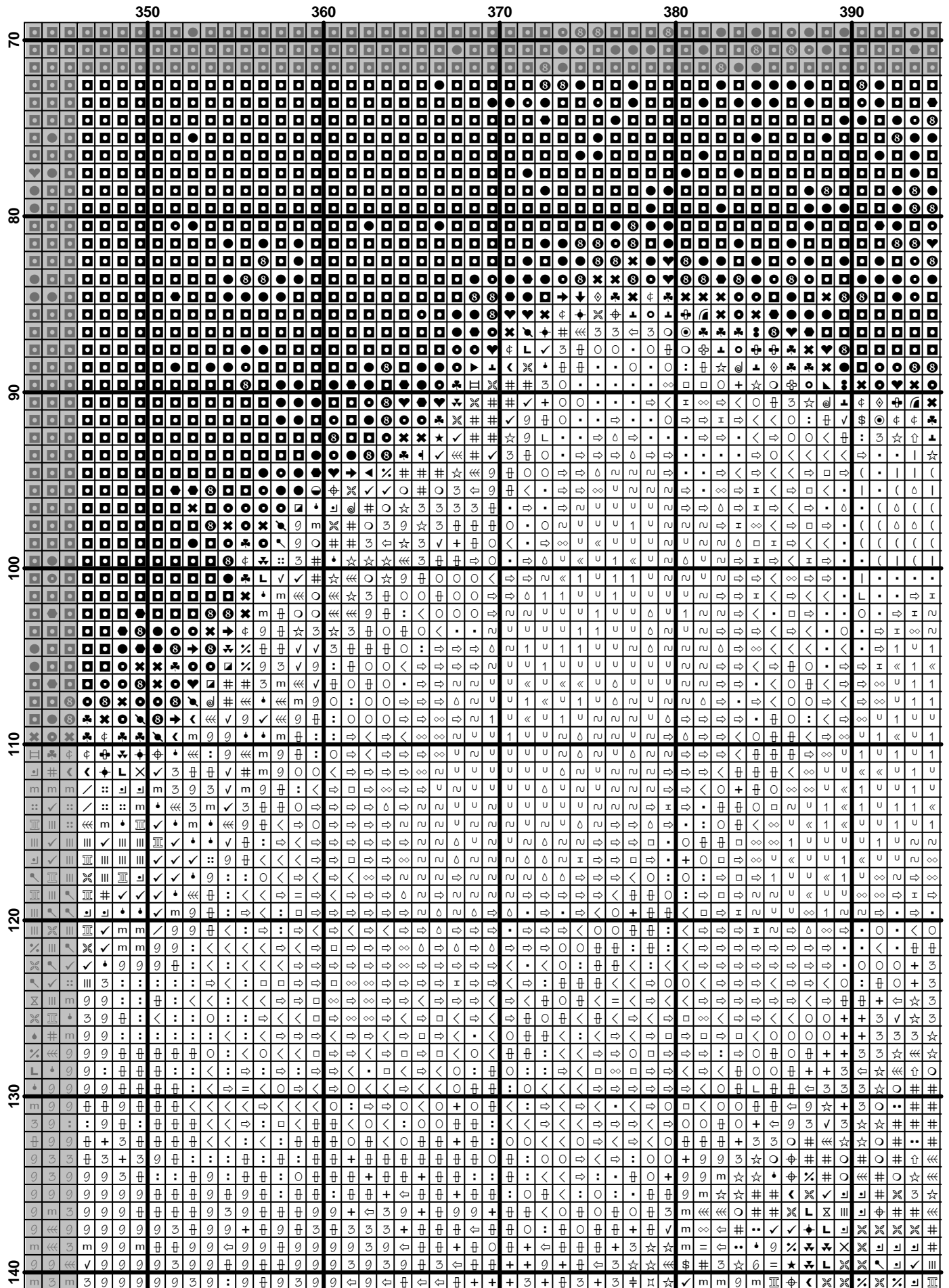


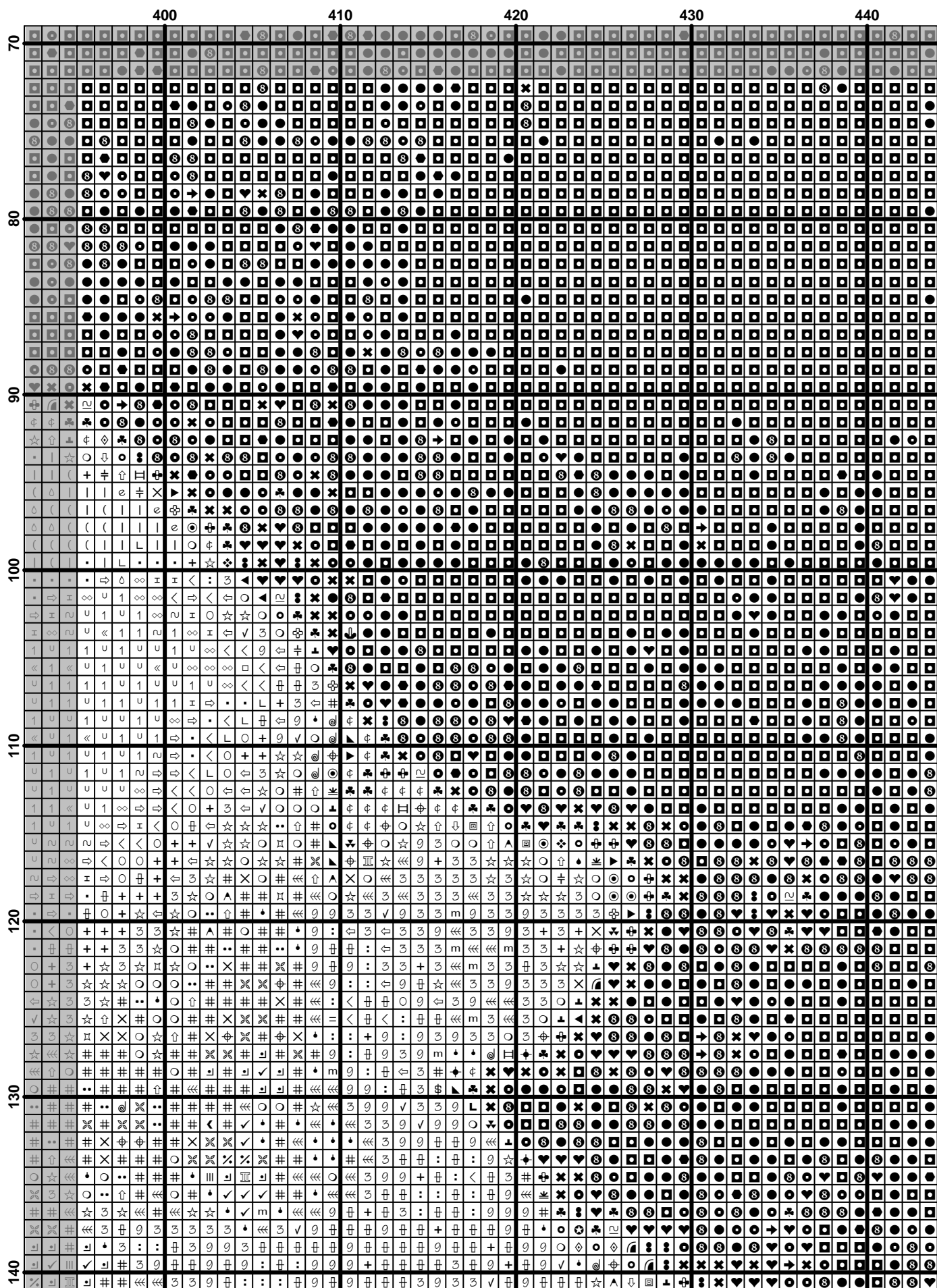


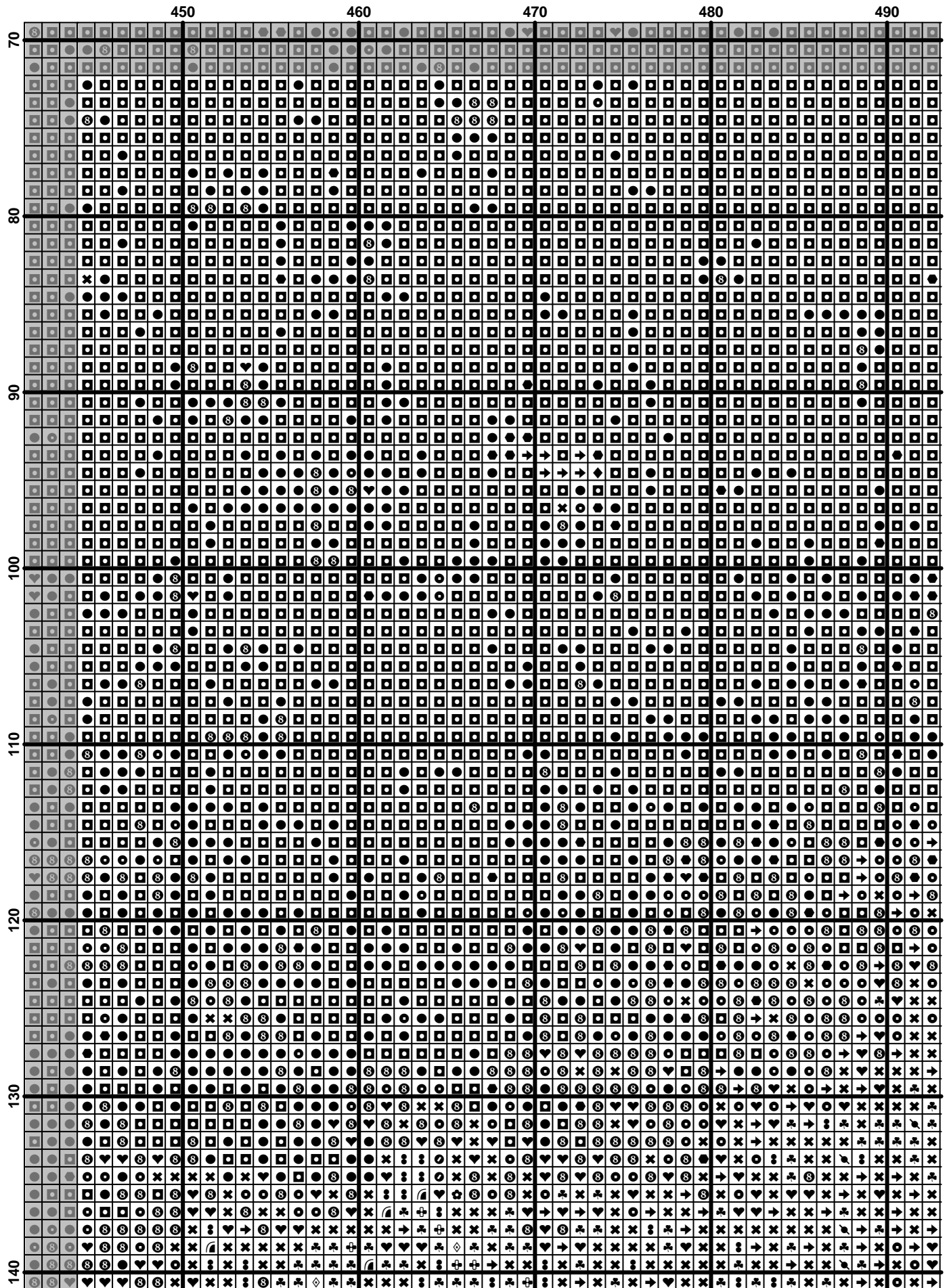


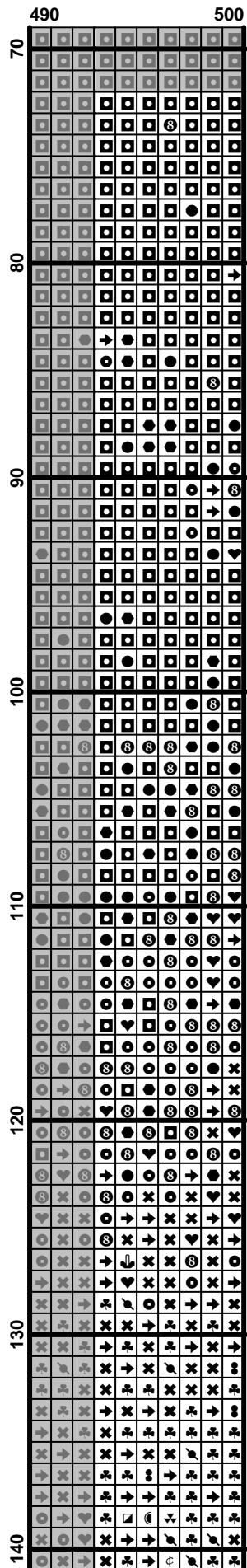




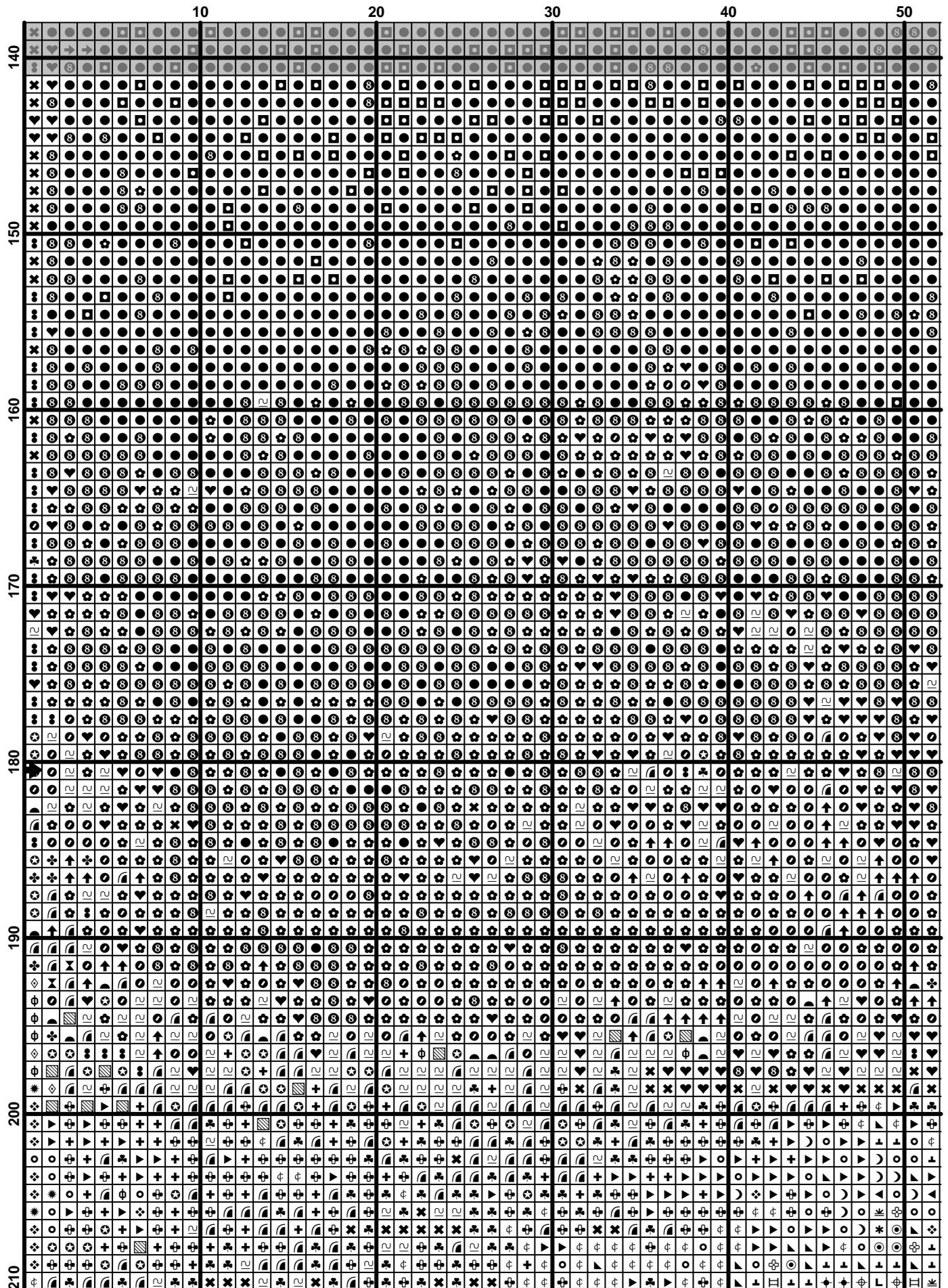


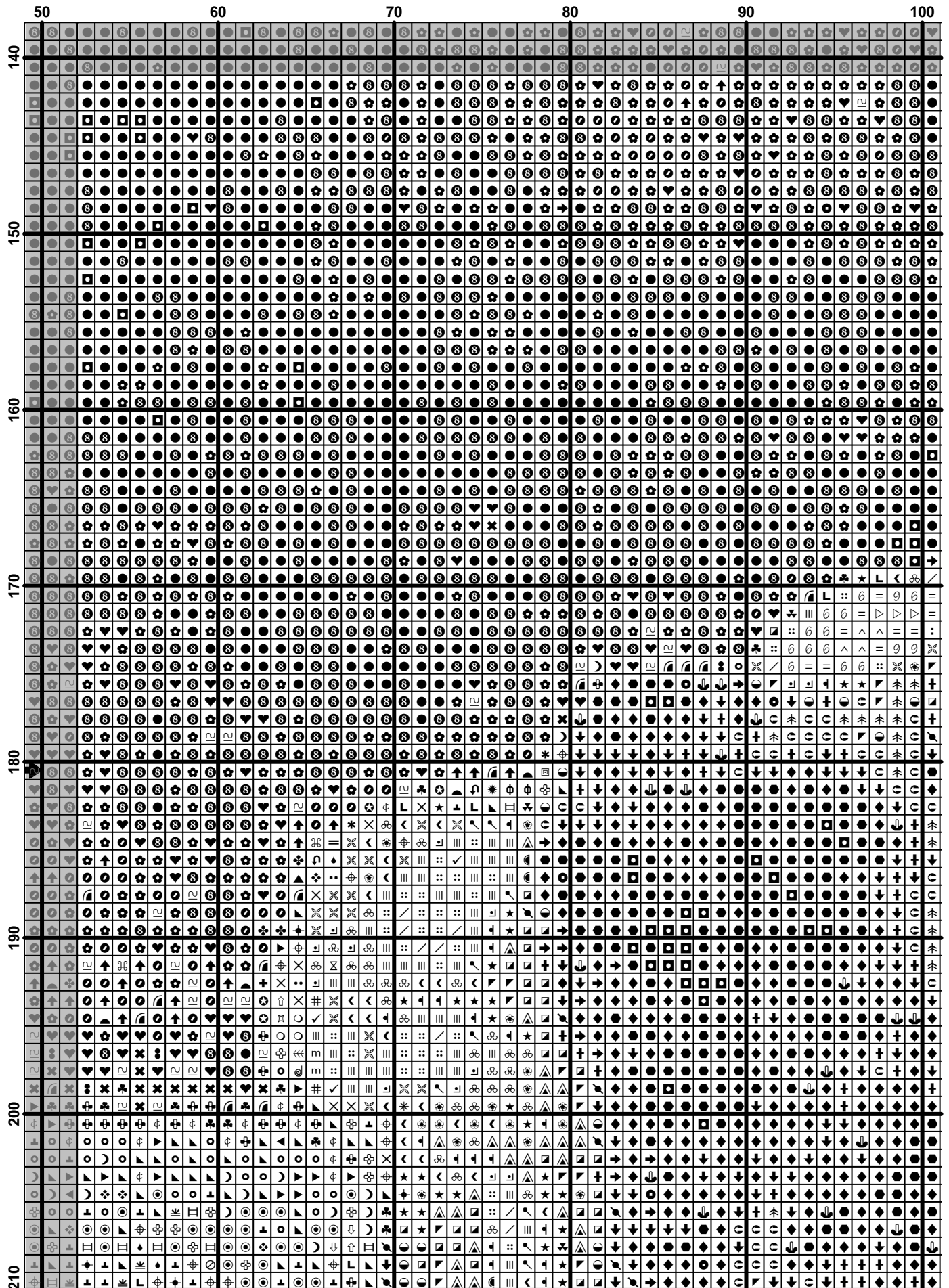


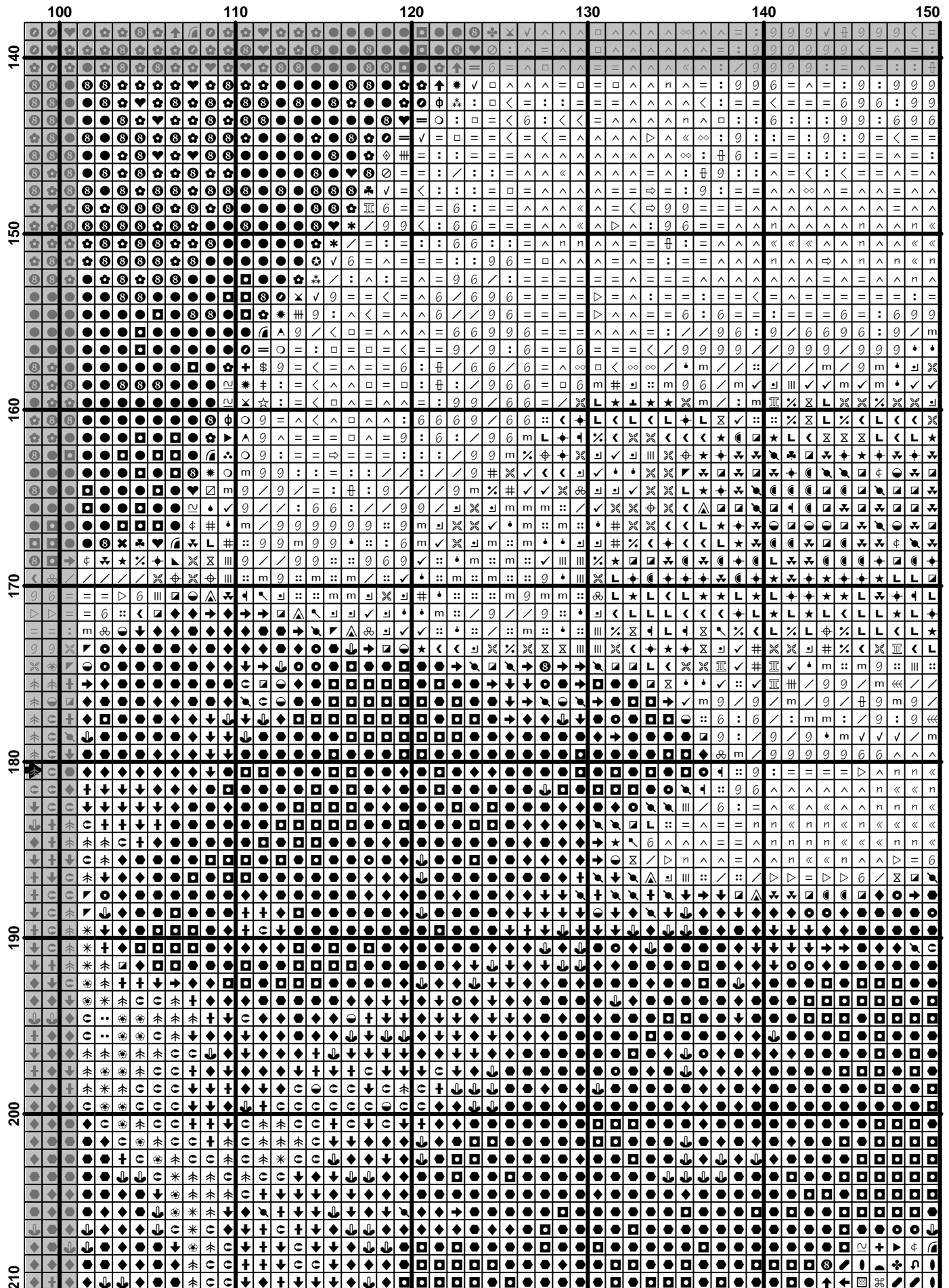




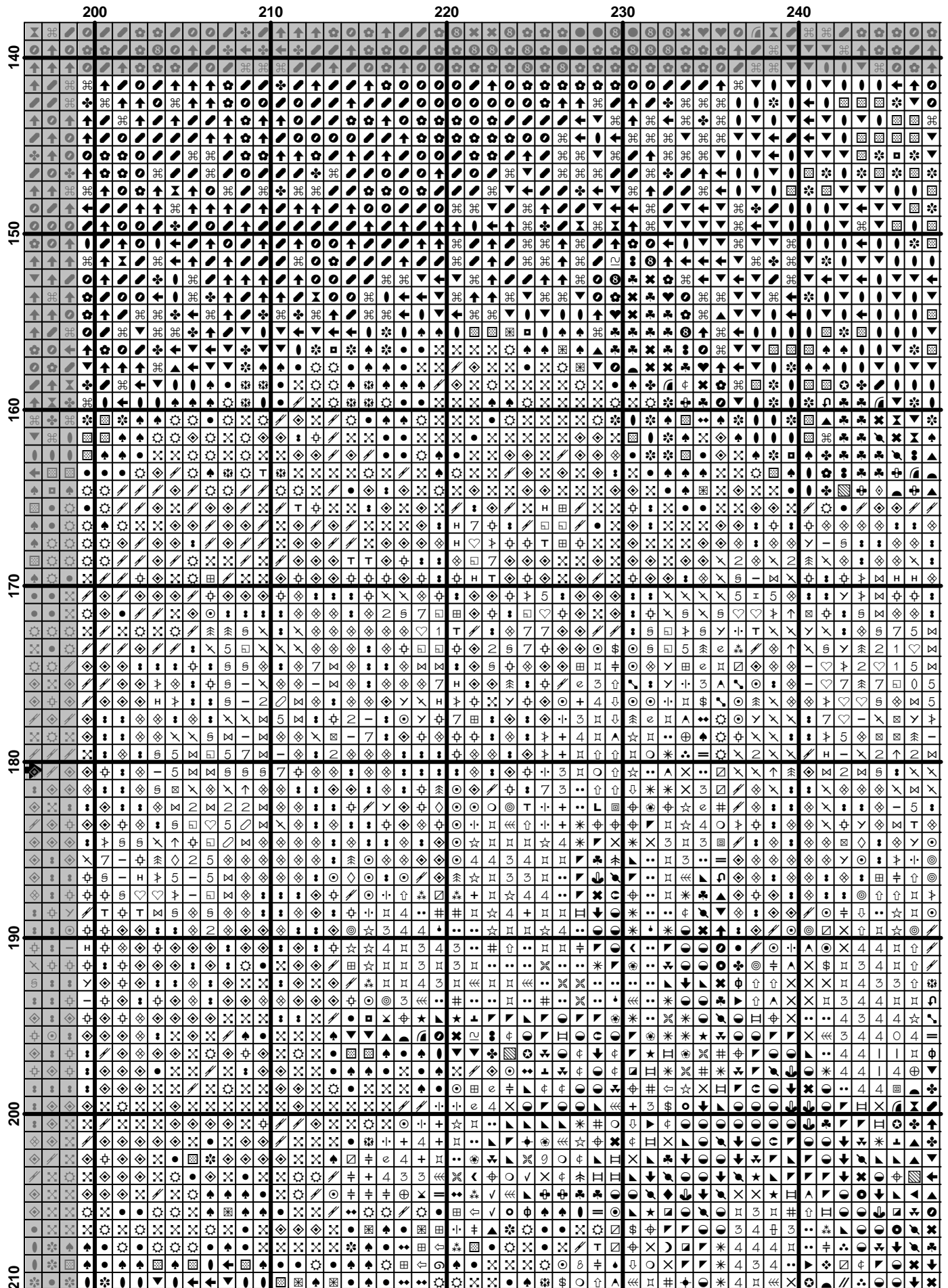


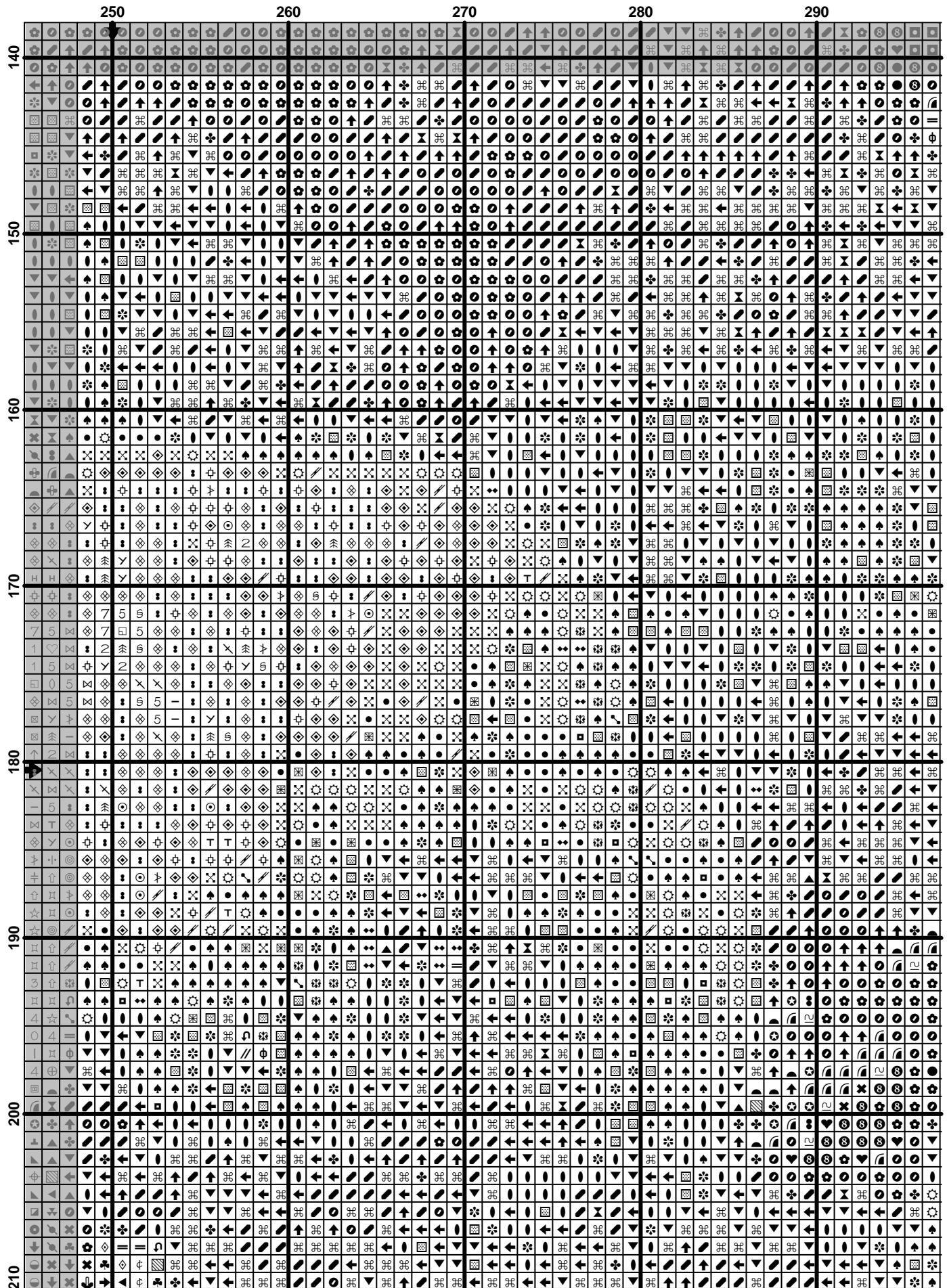


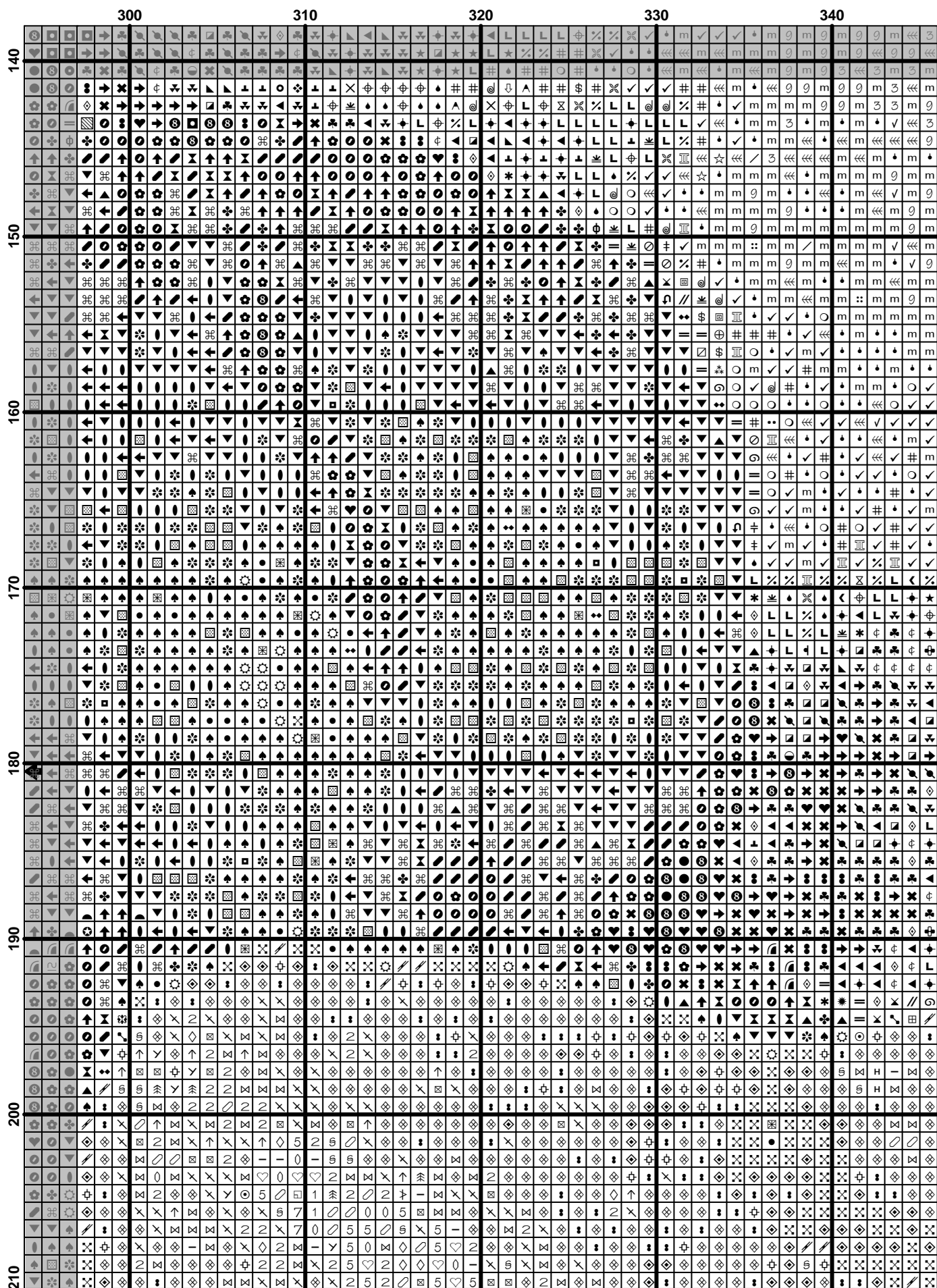


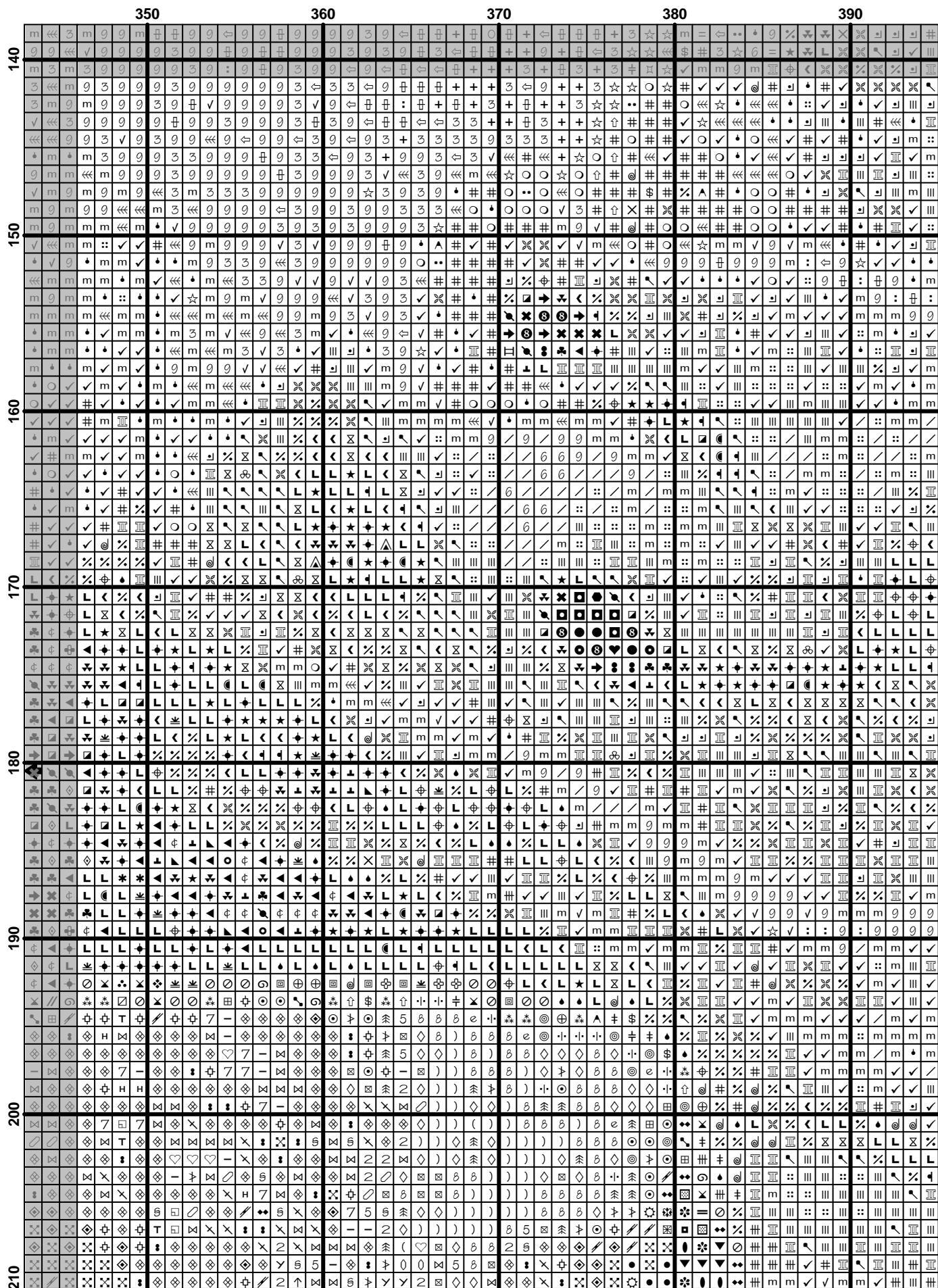


$$(37) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

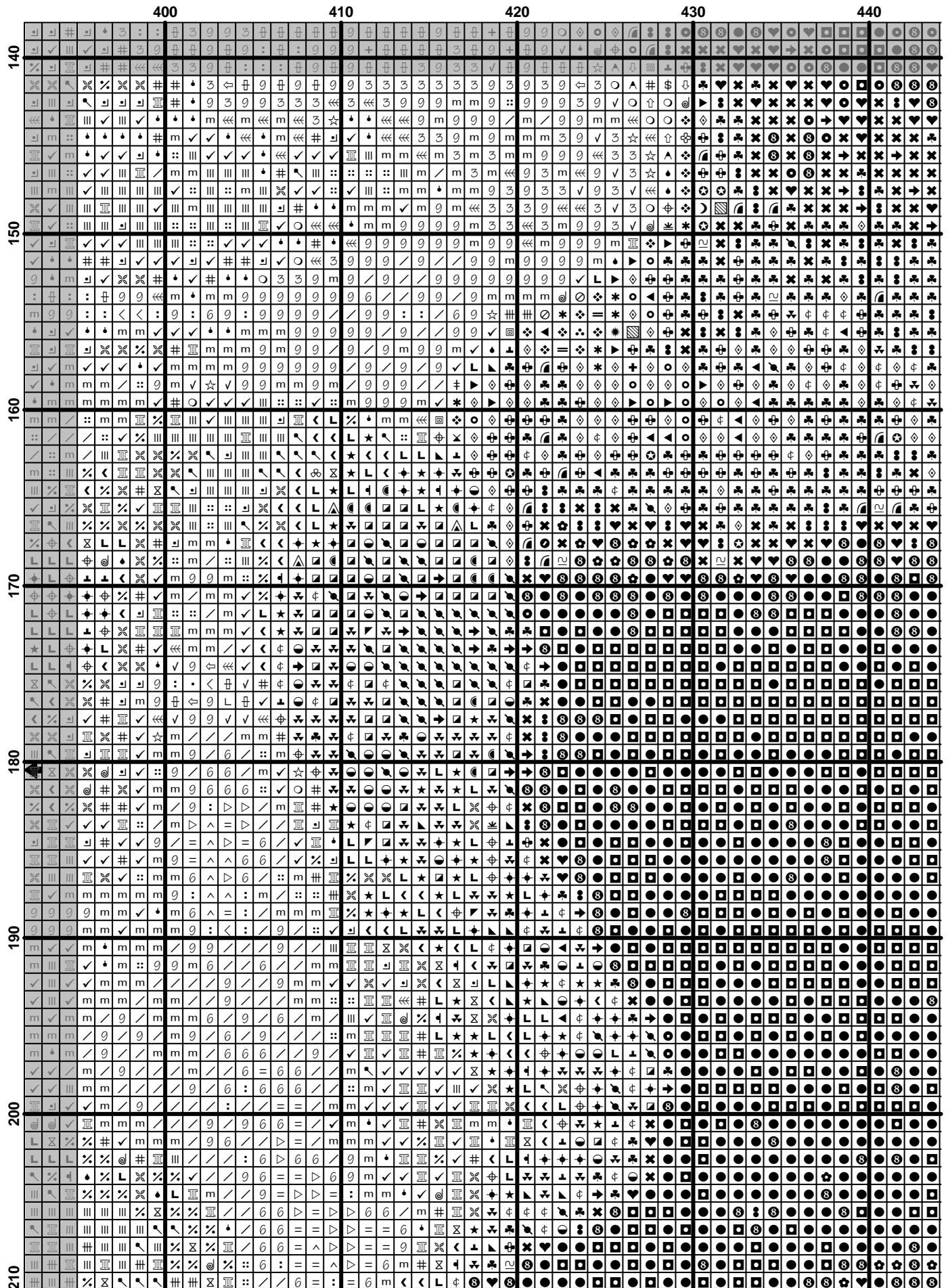


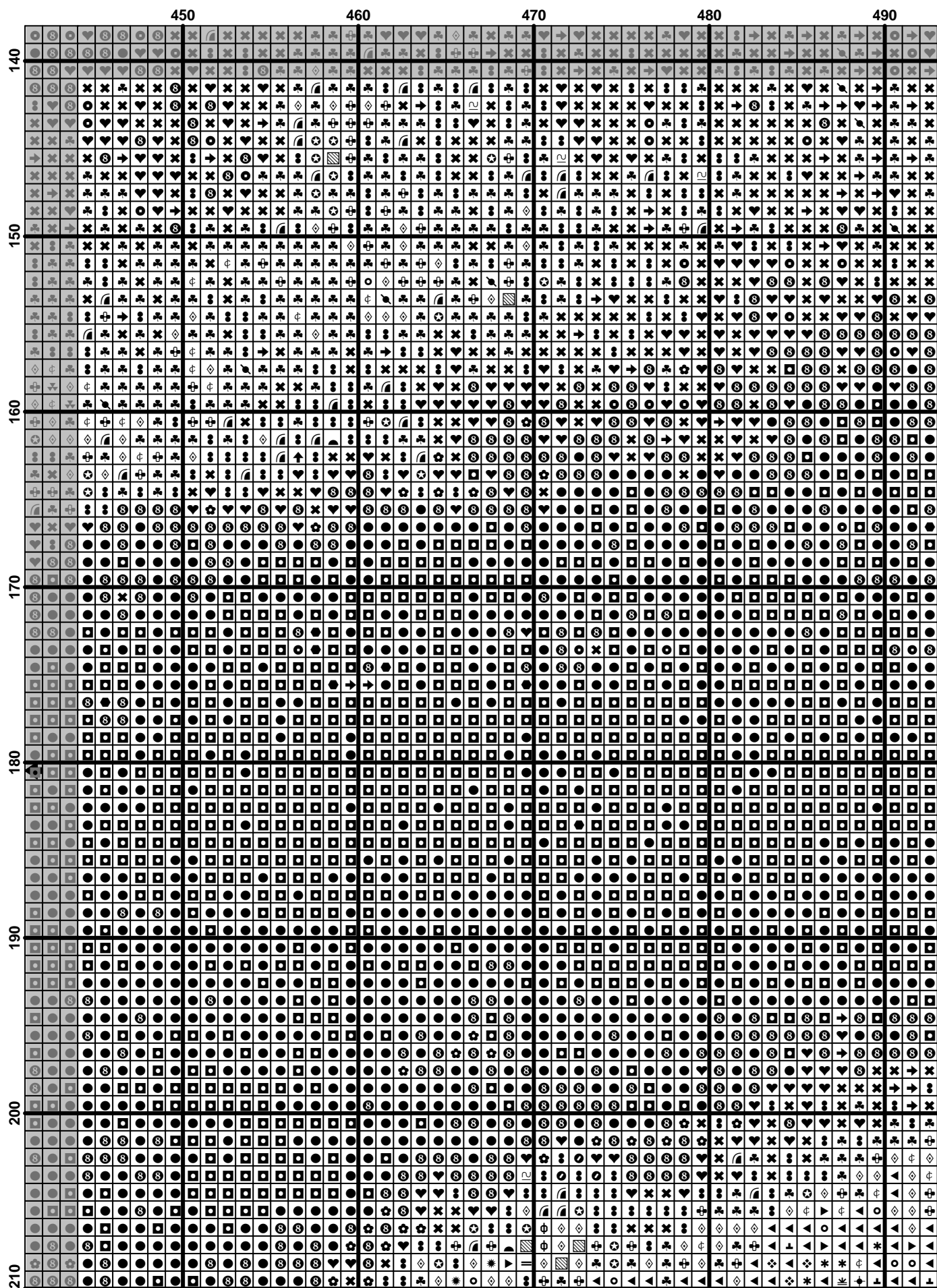


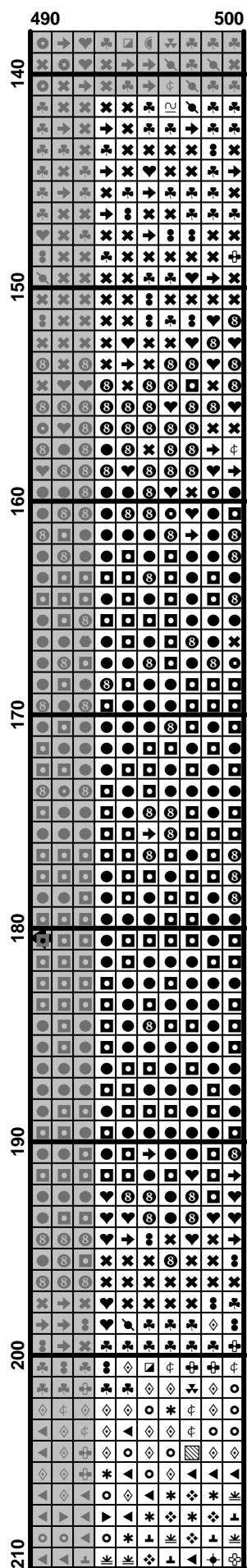


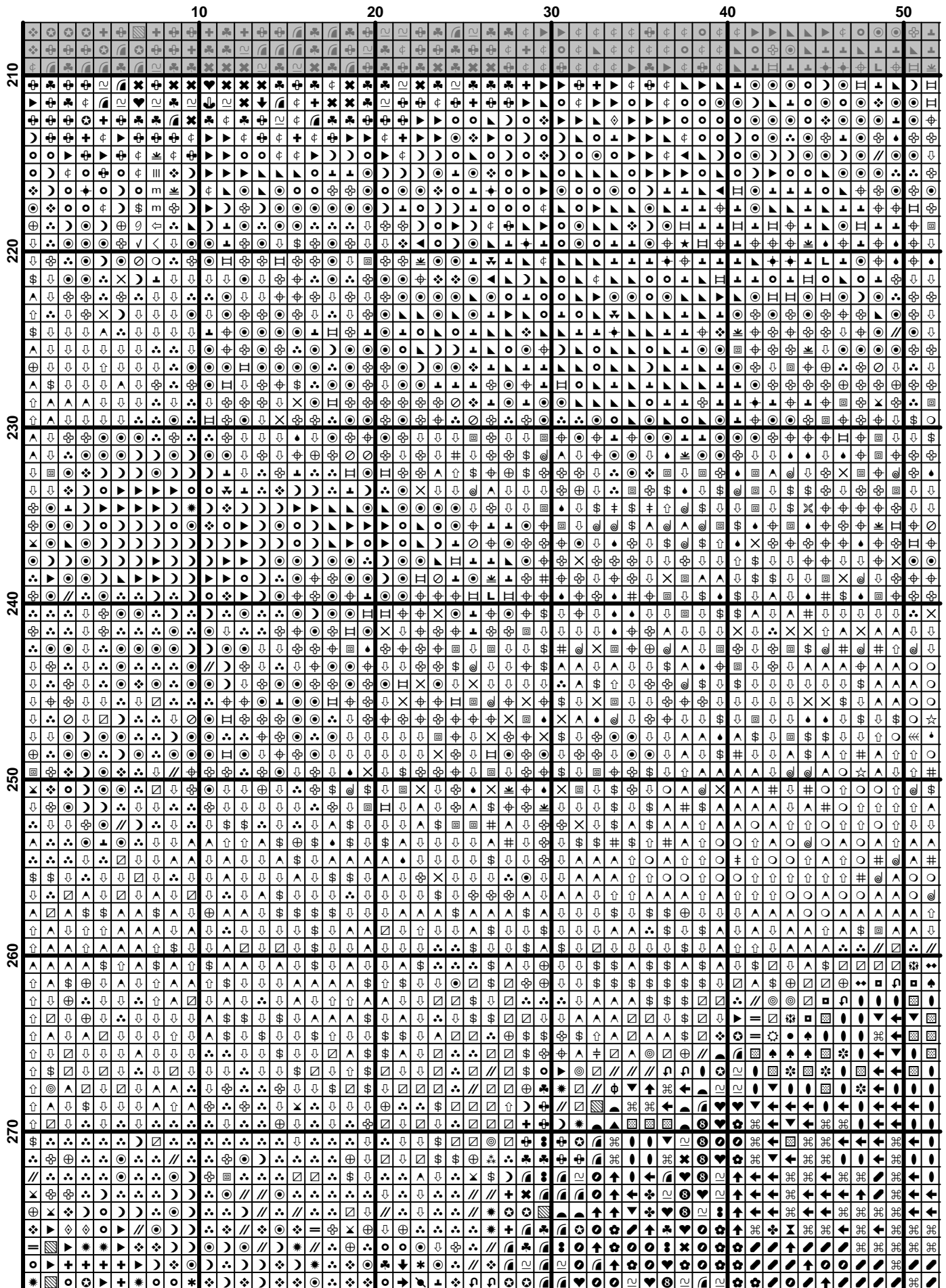


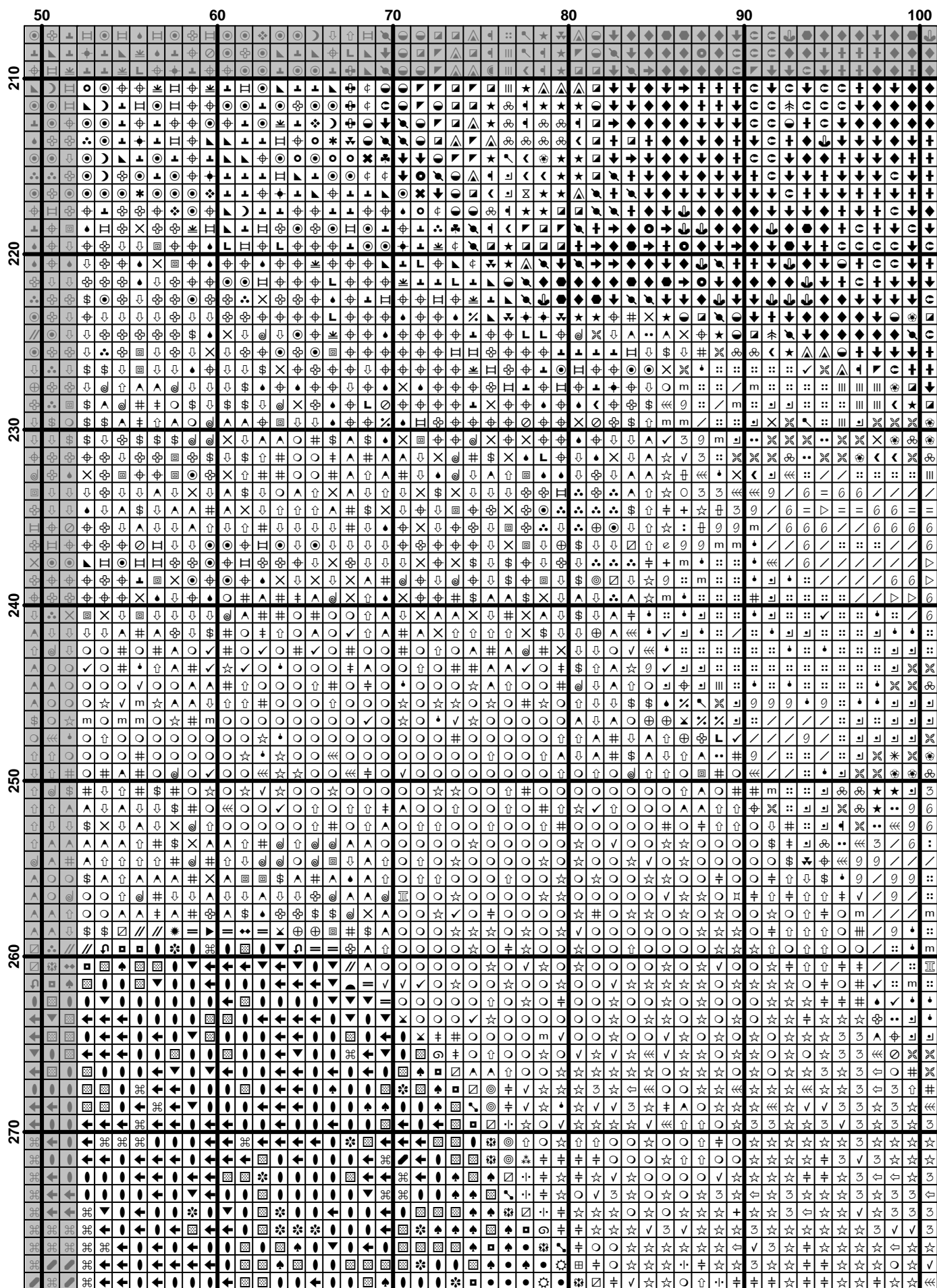


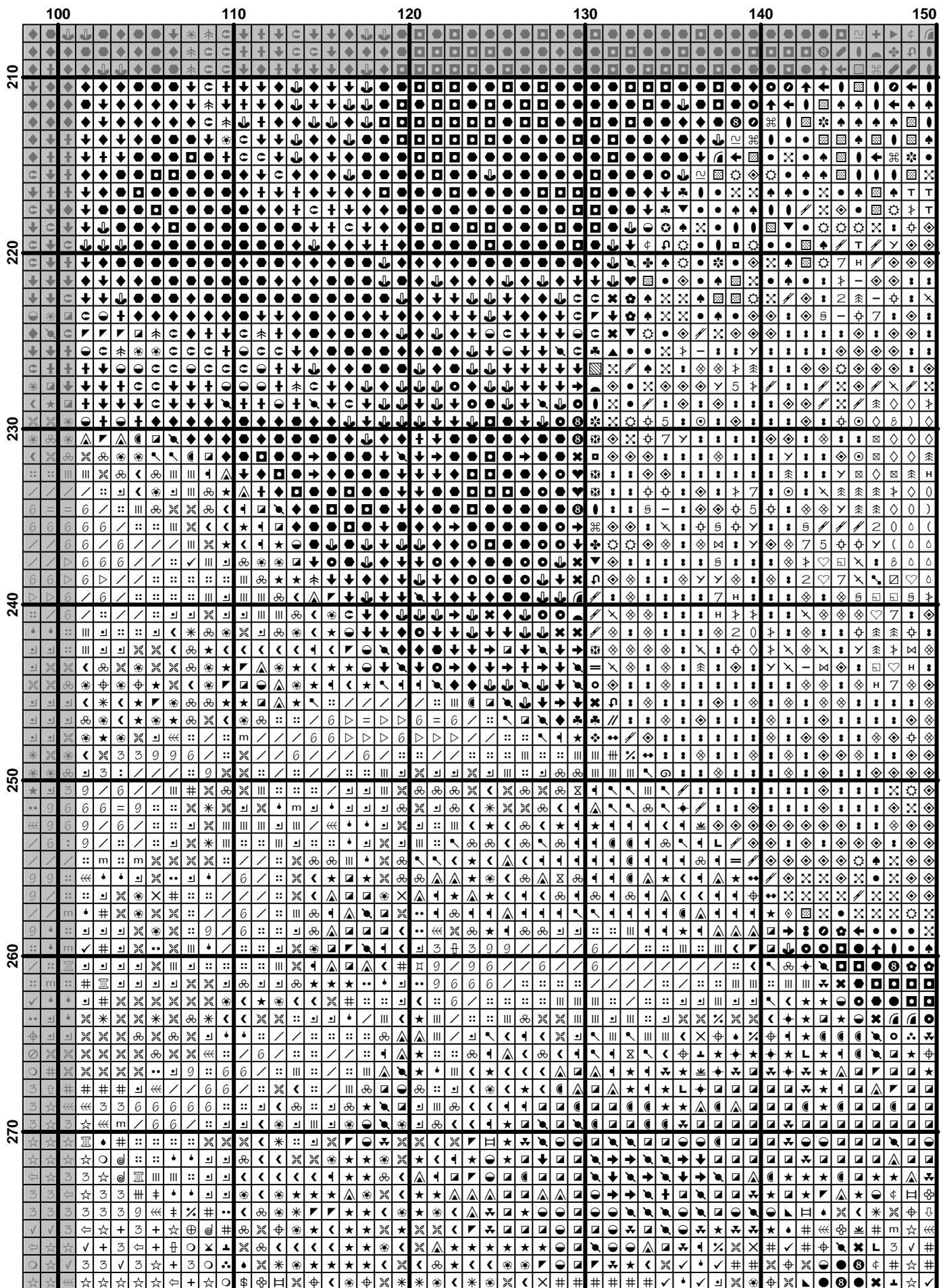


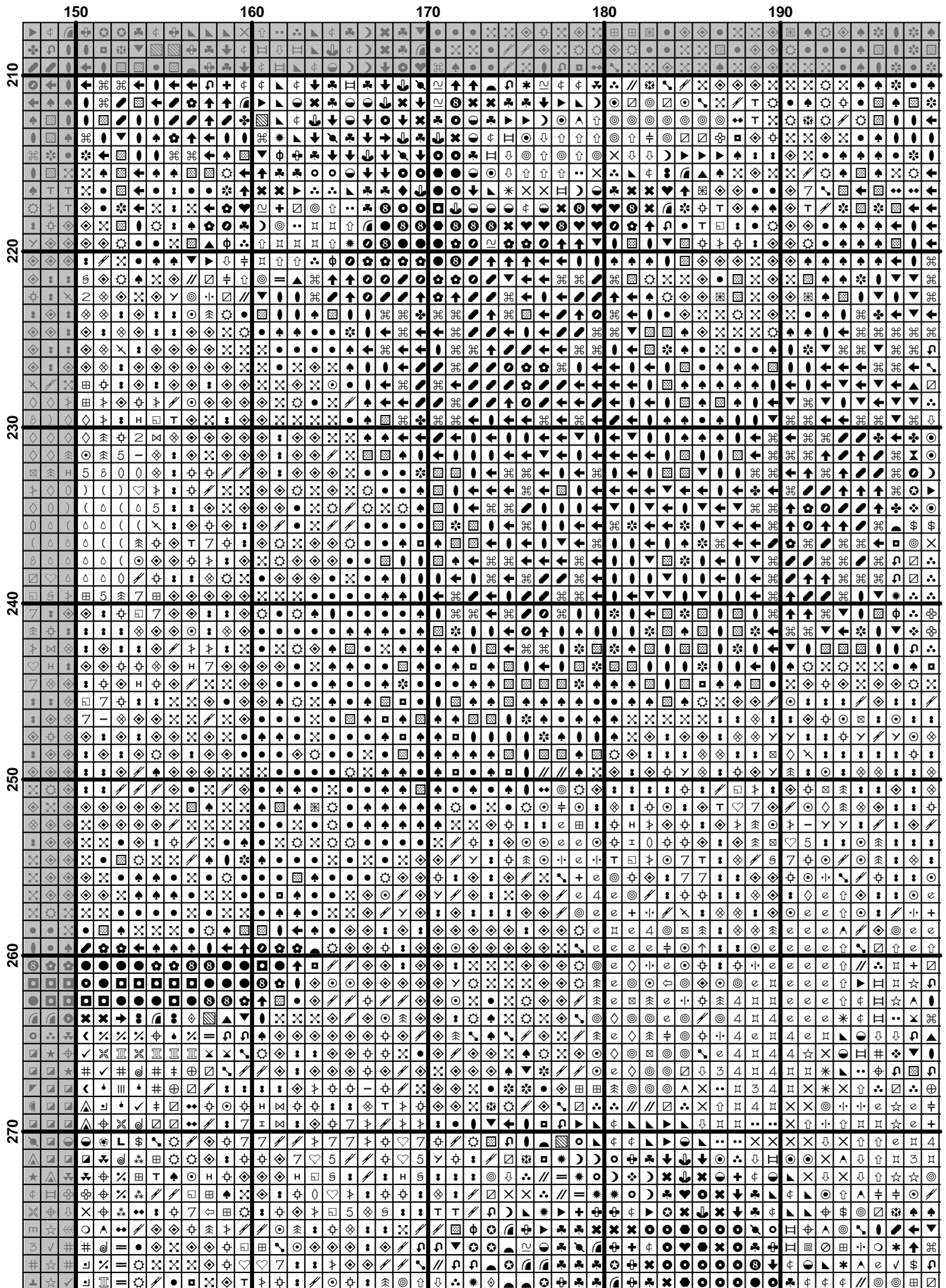


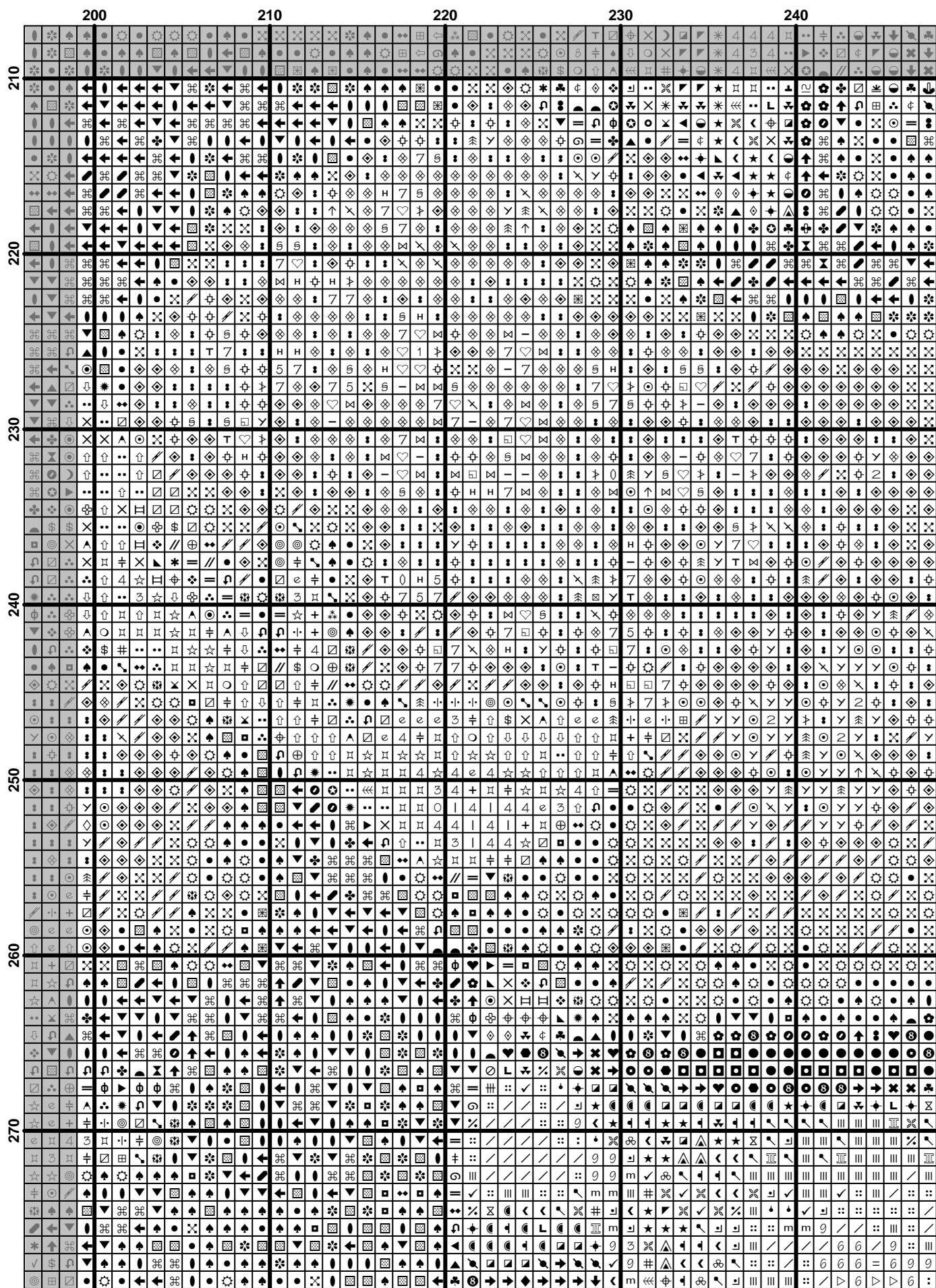




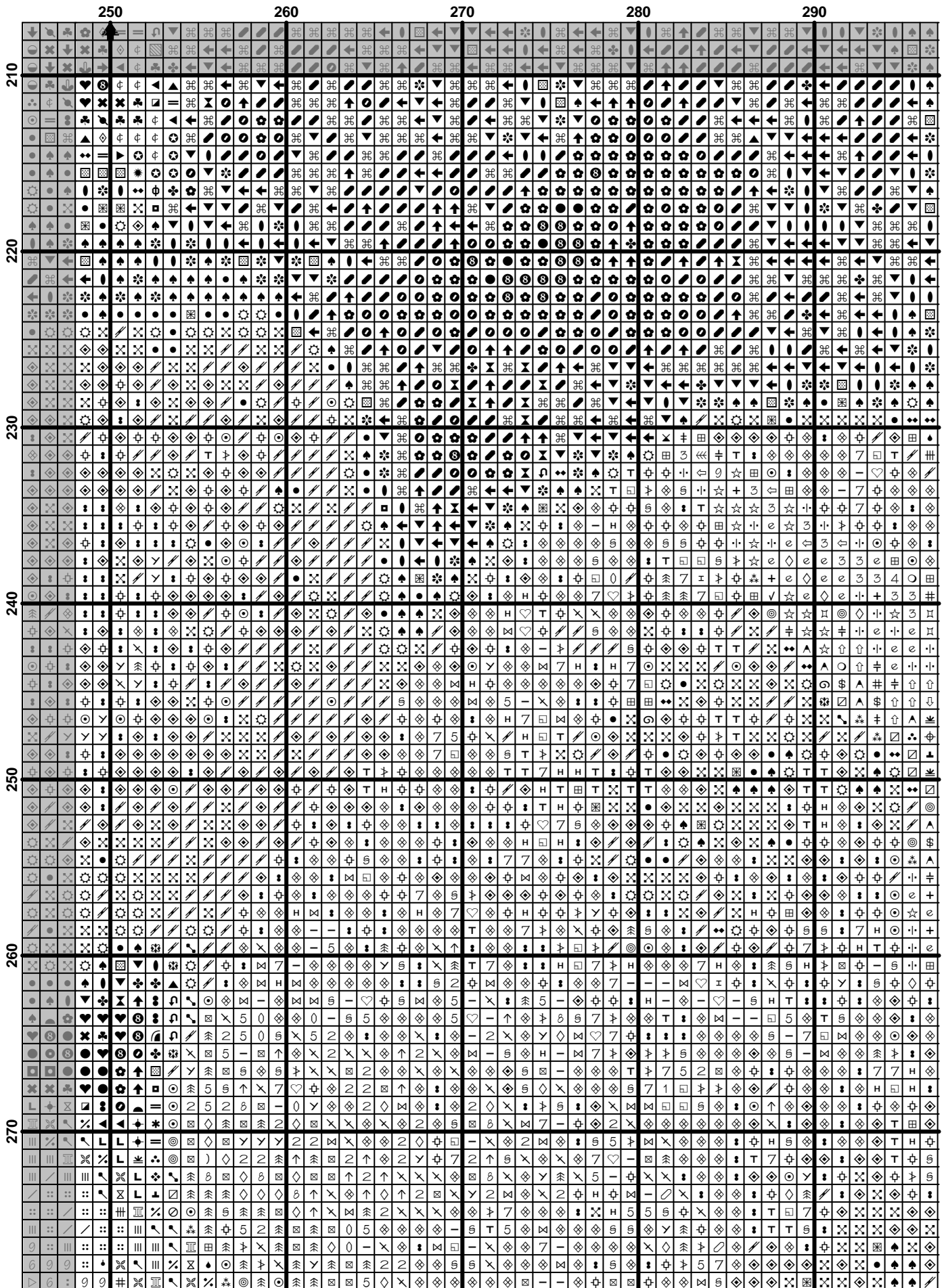


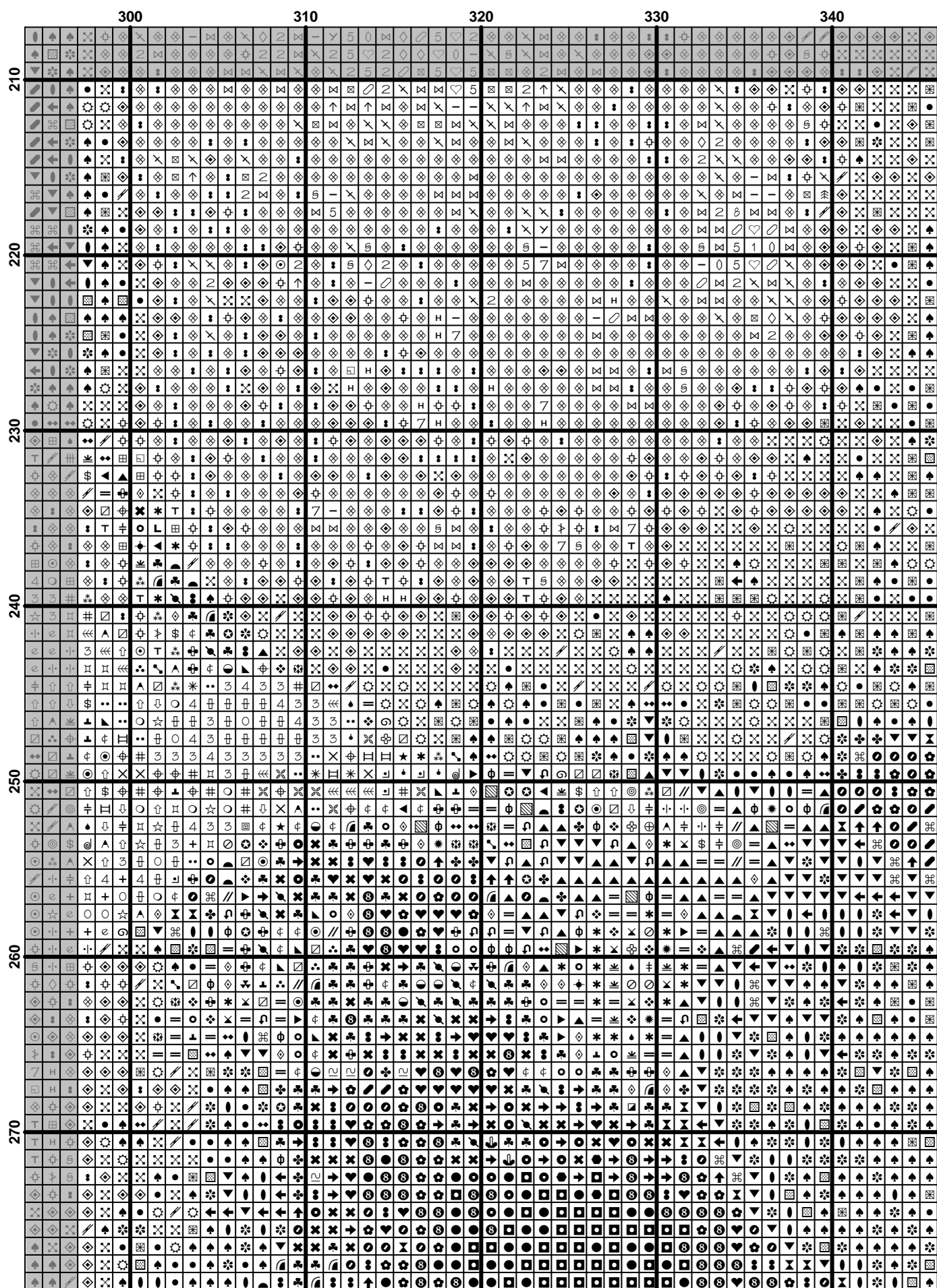


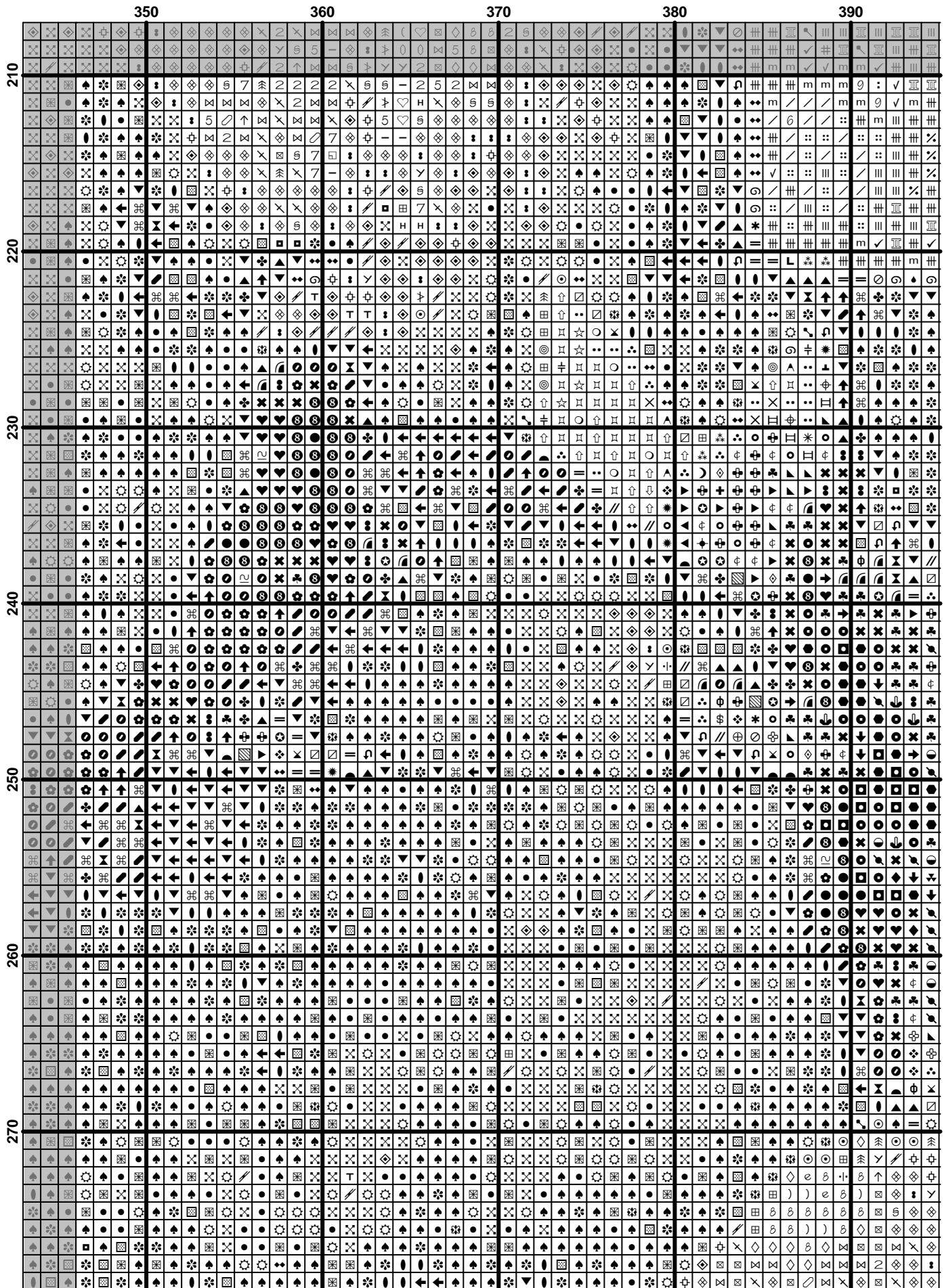


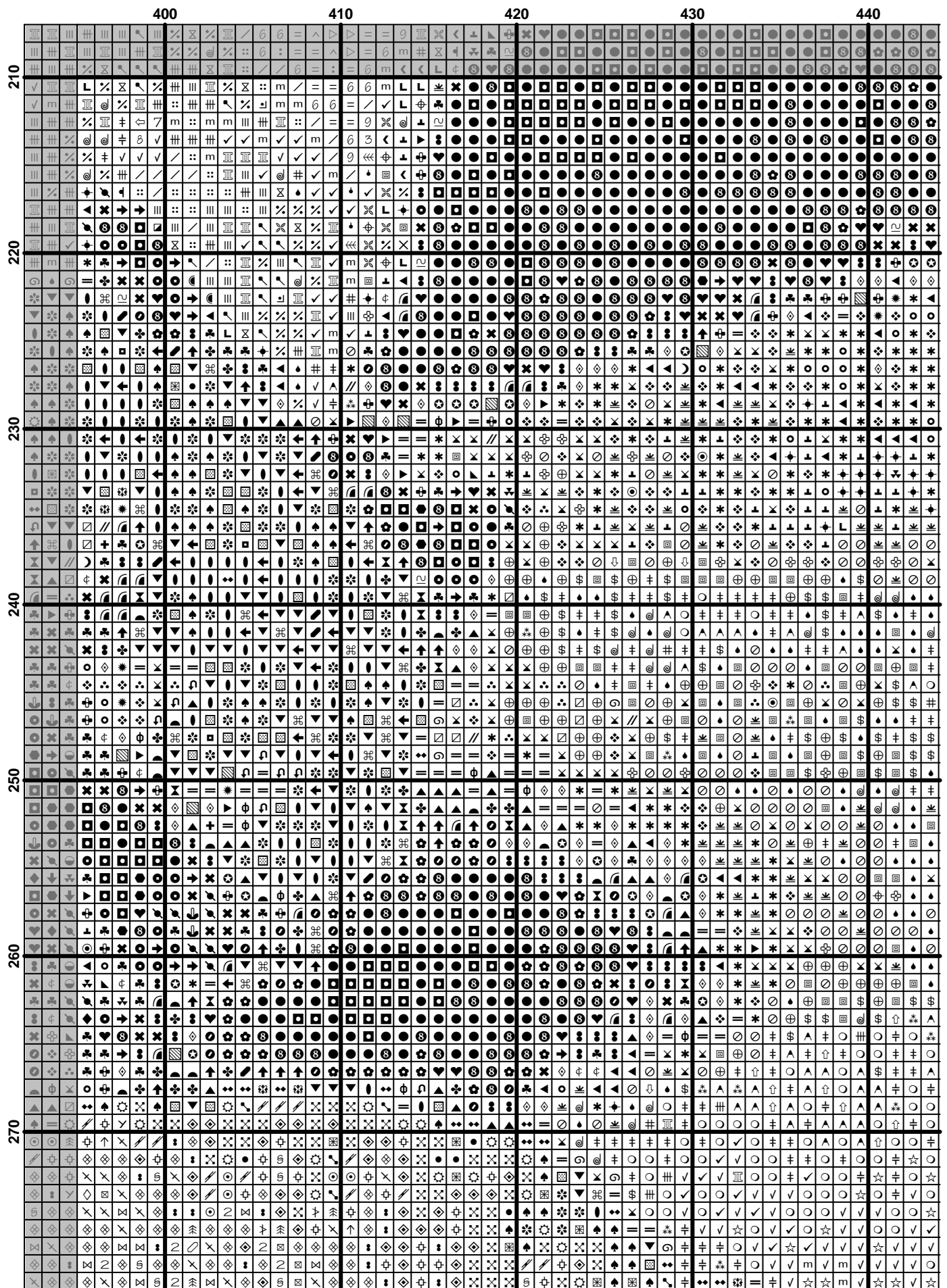


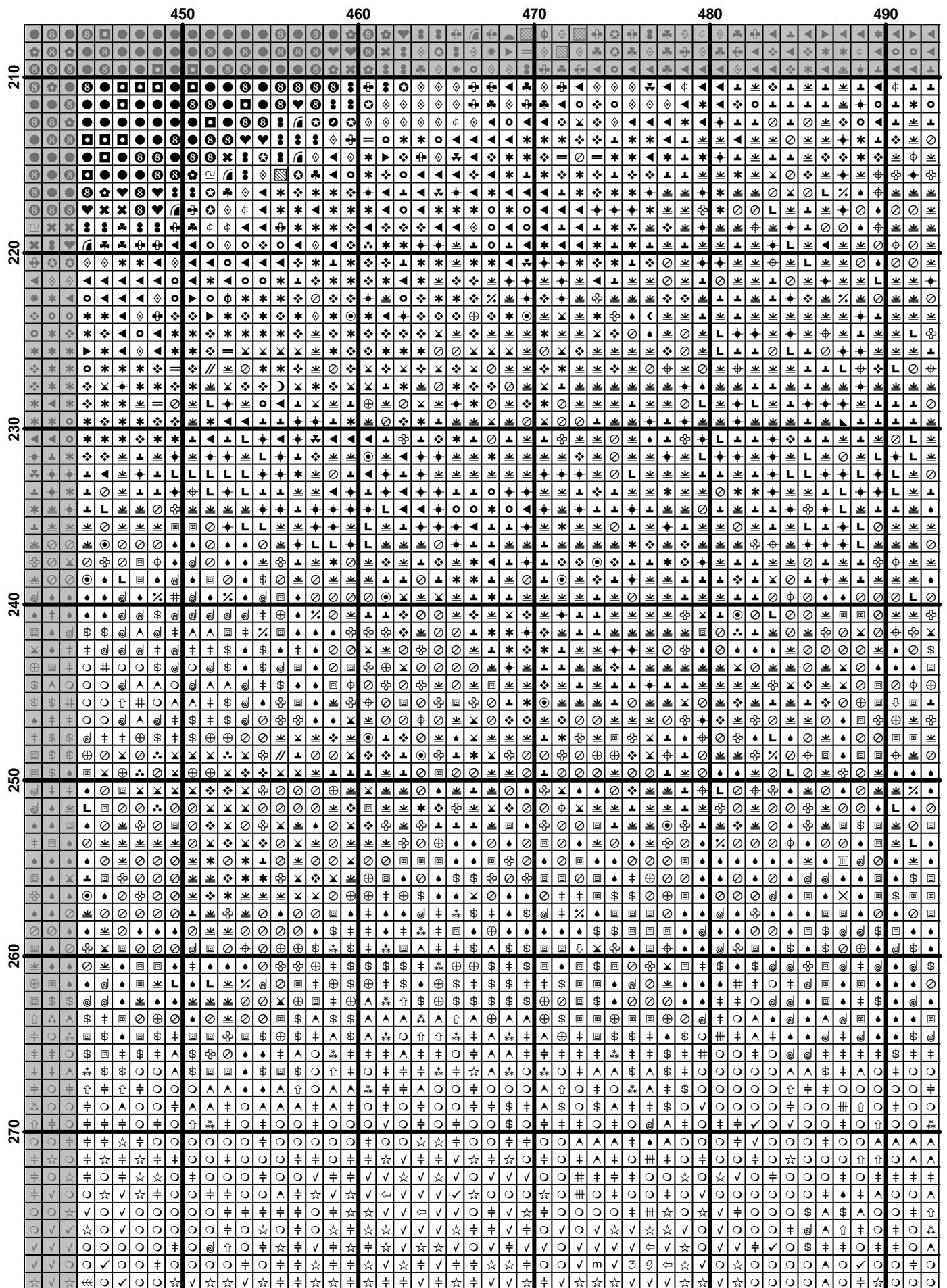


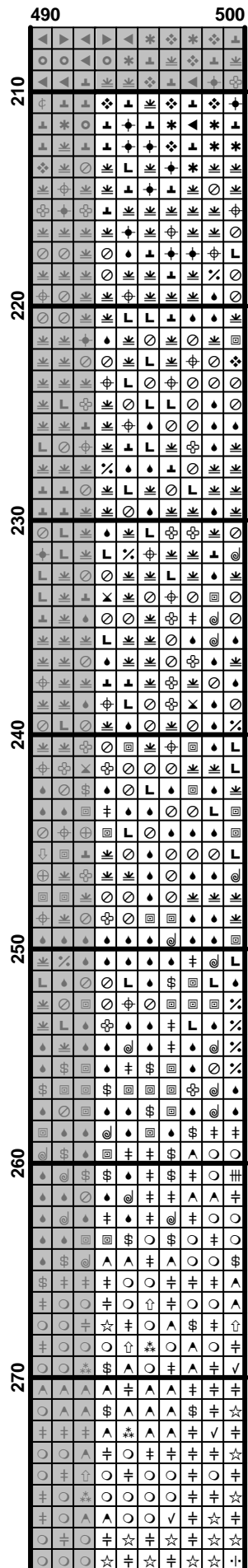


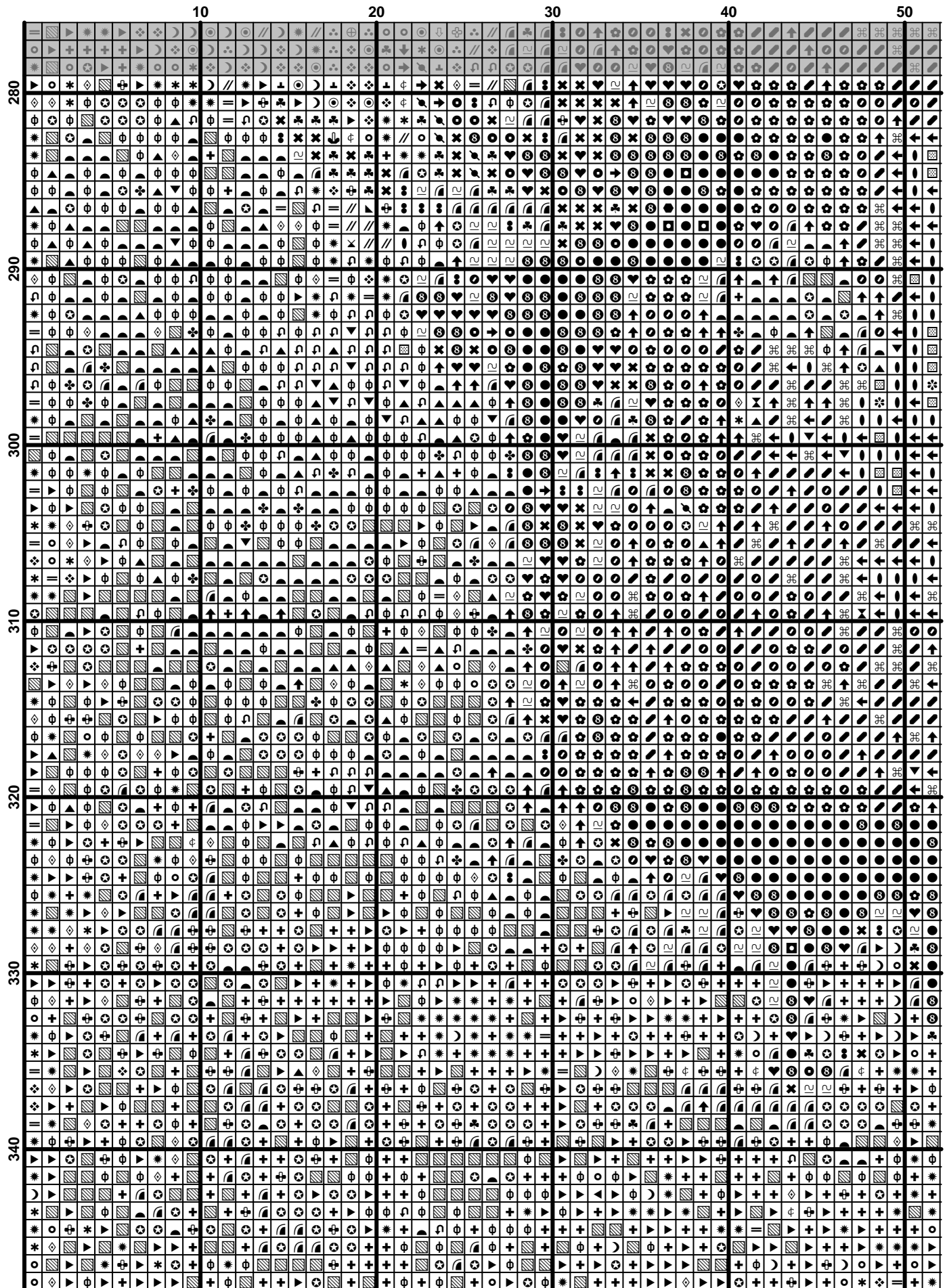








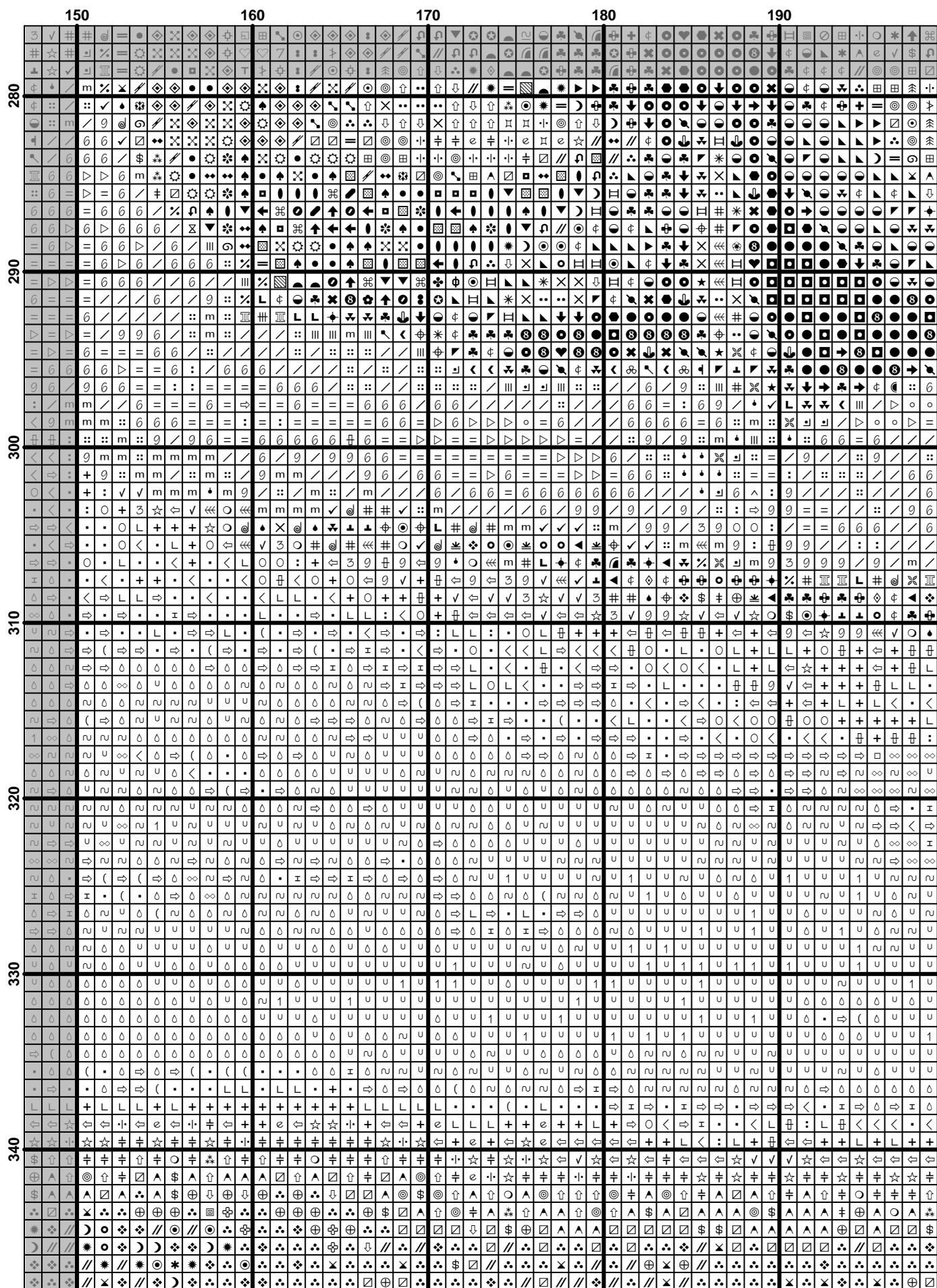


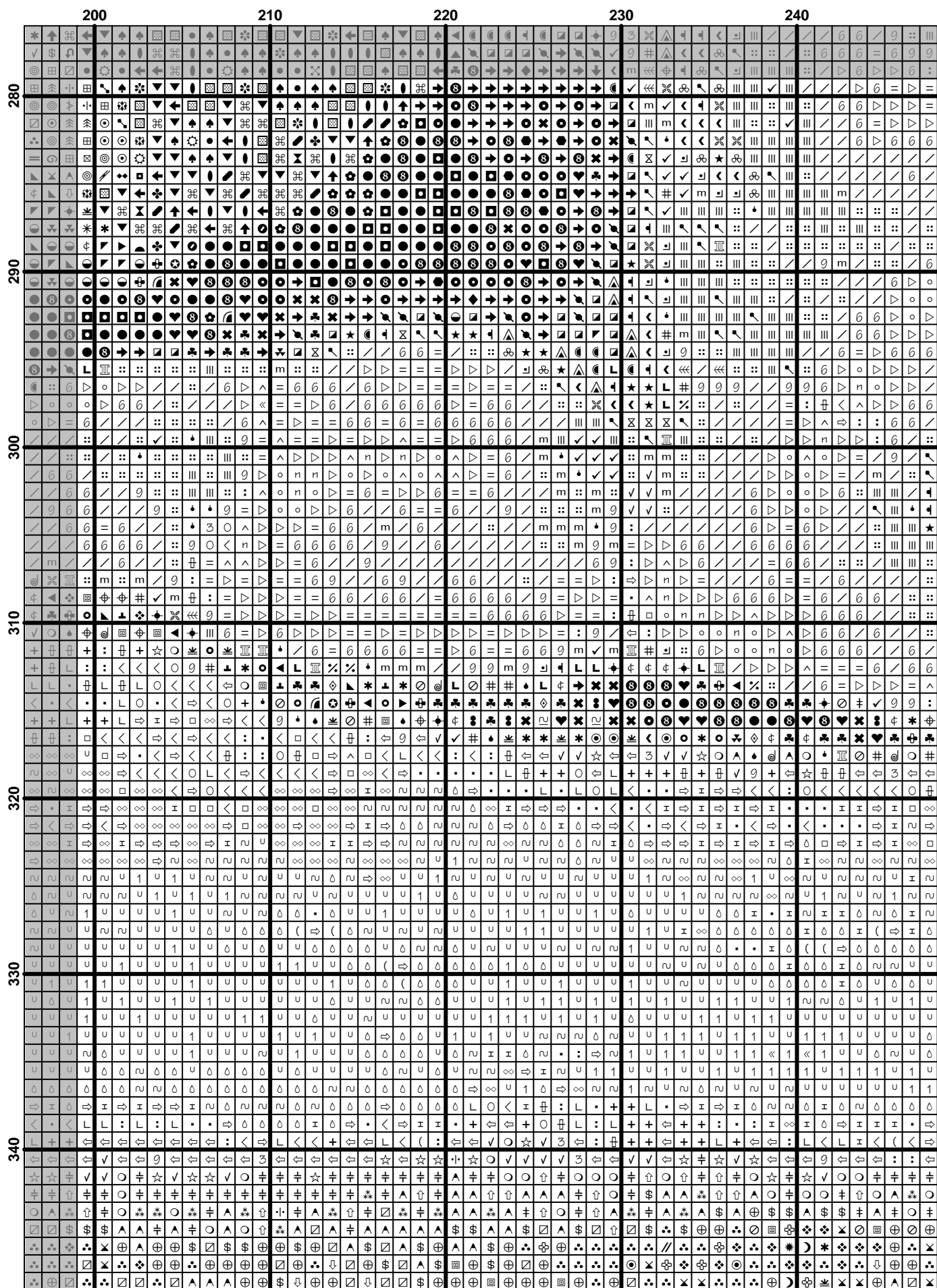


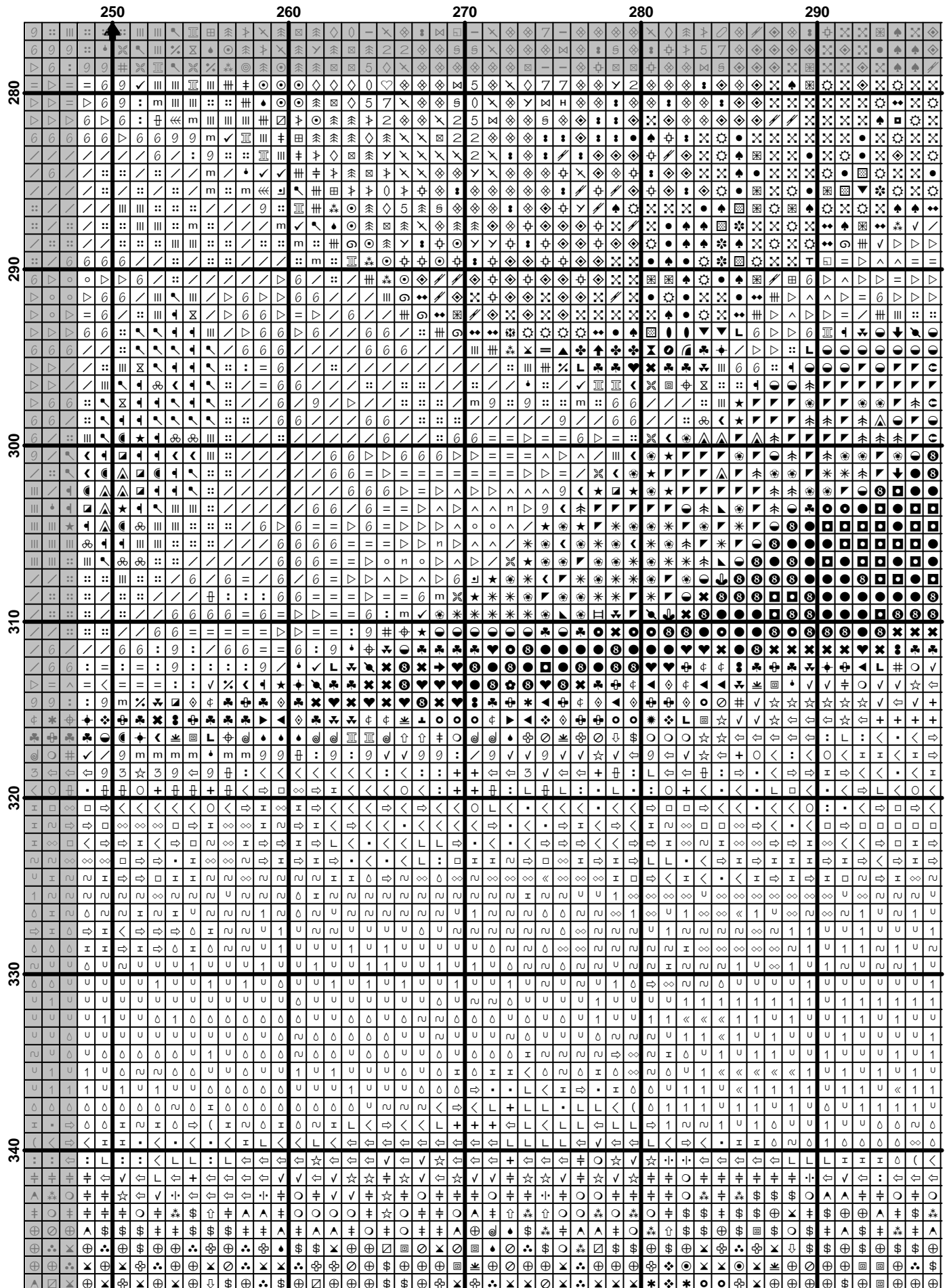


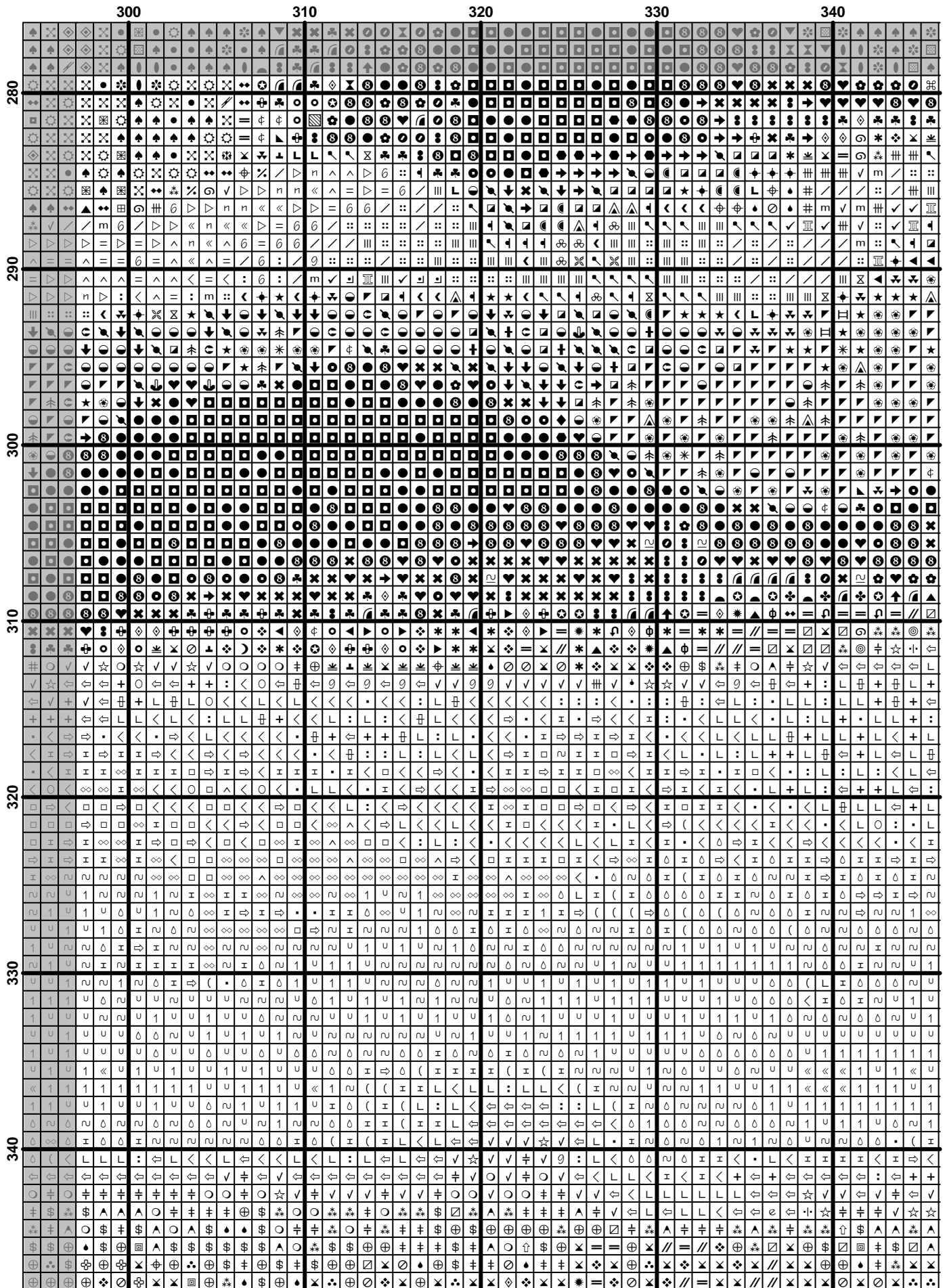


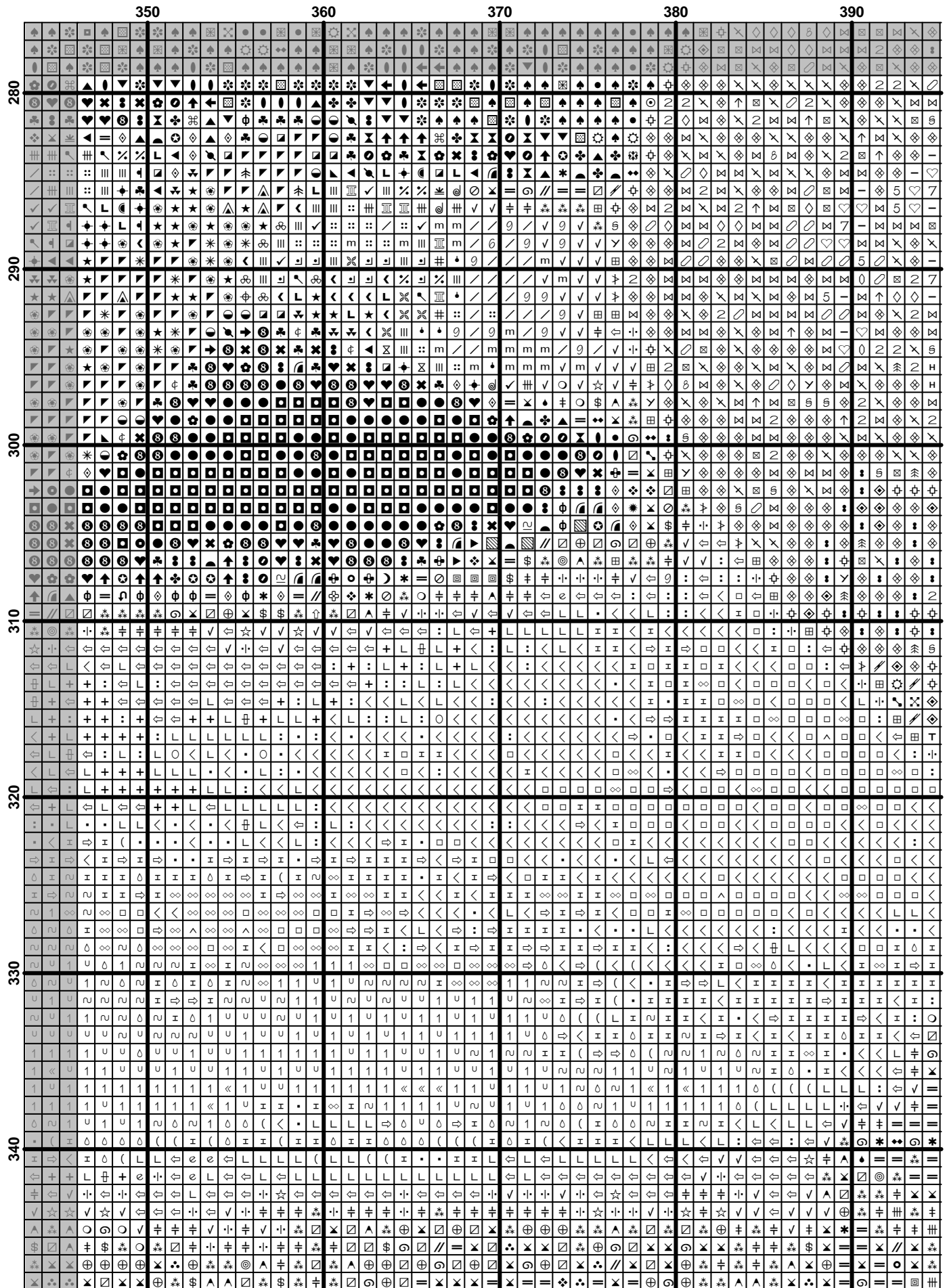
(59)











(65)

