

## 987 Roman Boat Race



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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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| Roman Boat Race  |       |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |               |  |
|--|-------|-------|--------|-------|--------------|-------|-------------|-------|-----------|-------|--|-------|--|--|--|--|--|--|--------------------------|--|---------------|--|
|  |       |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |               |  |
| <table><tr><td colspan="2">Stitch Count</td></tr><tr><td>Horizontal:</td><td>380</td></tr><tr><td>Vertical:</td><td>522</td></tr></table>  |       |       |        |       | Stitch Count |       | Horizontal: | 380   | Vertical: | 522   | <table><tr><td colspan="2">Recommended Fabric Color</td></tr><tr><td colspan="2">Antique White</td></tr></table> |       |  |  |  |  |  |  | Recommended Fabric Color |  | Antique White |  |
| Stitch Count   |       |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |               |  |
| Horizontal:  | 380   |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |               |  |
| Vertical:  | 522   |       |        |       |              |       |             |       |           |       |  |       |  |  |  |  |  |  |                          |  |               |  |
| 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:   | 69    | 27    | 95     | 37.28 | 60           | 23.62 | 83          | 32.62 | 54        | 21    | 74   | 29    |  |  |  |  |  |  |                          |  |               |  |
| Including Margins:   | 85    | 34    | 111    | 44    | 76           | 30    | 99          | 39    | 70        | 28    | 90   | 36    |  |  |  |  |  |  |                          |  |               |  |
|  | 10    |       |        |       | 12           |       |             |       | 24        |       |  |       |  |  |  |  |  |  |                          |  |               |  |
|  | Width |       | Height |       | Width        |       | Height      |       | Width     |       | Height   |       |  |  |  |  |  |  |                          |  |               |  |
|  | cm    | inch  | cm     | inch  | cm           | inch  | cm          | inch  | cm        | inch  | cm   | inch  |  |  |  |  |  |  |                          |  |               |  |
| Pattern:   | 96    | 37.8  | 133    | 52.19 | 80           | 31.5  | 110         | 43.49 | 40        | 15.75 | 55   | 21.74 |  |  |  |  |  |  |                          |  |               |  |
| Including Margins:   | 112   | 44    | 149    | 59    | 96           | 38    | 126         | 50    | 56        | 22    | 71   | 28    |  |  |  |  |  |  |                          |  |               |  |
|  | 25    |       |        |       | 26           |       |             |       | 27        |       |  |       |  |  |  |  |  |  |                          |  |               |  |
|  | Width |       | Height |       | Width        |       | Height      |       | Width     |       | Height   |       |  |  |  |  |  |  |                          |  |               |  |
|  | cm    | inch  | cm     | inch  | cm           | inch  | cm          | inch  | cm        | inch  | cm   | inch  |  |  |  |  |  |  |                          |  |               |  |
| Pattern:   | 38    | 15.12 | 53     | 20.87 | 37           | 14.53 | 51          | 20.07 | 35        | 14    | 49   | 19.33 |  |  |  |  |  |  |                          |  |               |  |
| Including Margins:   | 54    | 22    | 69     | 27    | 53           | 21    | 67          | 27    | 51        | 21    | 65   | 26    |  |  |  |  |  |  |                          |  |               |  |
|  | 28    |       |        |       | 30           |       |             |       | 32        |       |  |       |  |  |  |  |  |  |                          |  |               |  |
|  | Width |       | Height |       | Width        |       | Height      |       | Width     |       | Height   |       |  |  |  |  |  |  |                          |  |               |  |
|  | cm    | inch  | cm     | inch  | cm           | inch  | cm          | inch  | cm        | inch  | cm   | inch  |  |  |  |  |  |  |                          |  |               |  |
| Pattern:   | 34    | 13.5  | 47     | 18.64 | 32           | 12.6  | 44          | 17.39 | 30        | 11.81 | 41   | 16.31 |  |  |  |  |  |  |                          |  |               |  |
| Including Margins:   | 50    | 20    | 63     | 25    | 48           | 19    | 60          | 24    | 46        | 18    | 57   | 23    |  |  |  |  |  |  |                          |  |               |  |

| Solid Color Stitches. Use two strands of the specified color for these stitches.    |     |                      |
|---|-----|----------------------|
| Symbol  | DMC | Name                 |
|    | 300 | Mahogany-VY DK       |
|    | 370 | Mustard-MD           |
|    | 420 | Hazelnut Brown-DK    |
|    | 435 | Brown-VY LT          |
|    | 436 | Tan                  |
|    | 501 | Blue Green-DK        |
|    | 502 | Blue Green           |
|    | 503 | Blue Green-MD        |
|    | 522 | Fern Green           |
|    | 524 | Fern Green-VY LT     |
|    | 535 | Ash Gray-VY LT       |
|    | 543 | Beige Brown-UL VY LT |
|    | 564 | Jade-VY LT           |
|    | 597 | Turquoise            |
|    | 598 | Turquoise-LT         |
|    | 611 | Drab Brown           |
|    | 613 | Drab Brown-VY LT     |
|    | 632 | Desert Sand-UL VY DK |
|   | 640 | Beige Gray-VY DK     |
|  | 642 | Beige Gray-DK        |
|  | 645 | Beaver Gray-VY DK    |
|  | 647 | Beaver Gray-MD       |
|  | 648 | Beaver Gray-LT       |
|  | 676 | Old Gold-LT          |
|  | 677 | Old Gold-VY LT       |
|  | 680 | Old Gold-DK          |
|  | 712 | Cream                |
|  | 738 | Tan-VY LT            |
|  | 739 | Tan-UL VY LT         |
|  | 743 | Yellow -MD           |
|  | 744 | Yellow -Pale         |
|  | 746 | Off White            |
|  | 747 | Sky Blue-VY LT       |
|  | 762 | Pearl Gray-VY LT     |
|  | 828 | Blue-UL VY LT        |
|  | 833 | Golden Olive-LT      |

|   |      |                      |
|---|------|----------------------|
|    | 834  | Golden Olive-VY LT   |
|    | 839  | Beige Brown-DK       |
|    | 869  | Hazelnut Brown-VY DK |
|    | 926  | Gray Green-MD        |
|    | 927  | Gray Green-LT        |
|    | 932  | Antique Blue-LT      |
|    | 935  | Avocado Green-DK     |
|    | 938  | Coffee Brown-UL DK   |
|    | 955  | Nile Green-LT        |
|    | 964  | Sea Green-LT         |
|    | 975  | Golden Brown-DK      |
|    | 977  | Golden Brown-LT      |
|    | 993  | Aquamarine-LT        |
|    | 3021 | Brown Gray-VY DK     |
|    | 3024 | Brown Gray-VY LT     |
|    | 3032 | Mocha Brown-MD       |
|    | 3051 | Green Gray-DK        |
|    | 3052 | Green Gray-MD        |
|    | 3371 | Black Brown          |
|    | 3721 | Shell Pink-DK        |
|    | 3756 | Baby Blue-UL VY LT   |
|    | 3768 | Gray Green-DK        |
|   | 3770 | Tawny-VY LT          |
|  | 3782 | Mocha Brown-LT       |
|  | 3787 | Brown Gray-DK        |
|  | 3790 | Beige Gray-UL DK     |
|  | 3799 | Pewter Gray-VY DK    |
|  | 3810 | Turquoise-DK         |
|  | 3811 | Turquoise-VY LT      |
|  | 3815 | Celadon Green-DK     |
|  | 3826 | Golden Brown         |
|  | 3827 | Golden Brown-Pale    |
|  | 3828 | Hazelnut Brown       |
|  | 3829 | Old Gold-VY DK       |
|  | 3863 | Mocha Beige-MD       |
|  | 3865 | Winter White         |
|  | 3866 | Mocha Brown-UL VY LT |
|  | Ecru | Ecru                 |

| Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.         |      |                      |      |                   |
|---|------|----------------------|------|-------------------|
| Symbol  | DMC1 | Name1                | DMC2 | Name2             |
|  | 3021 | Brown Gray-VY DK     | 501  | Blue Green-DK     |
|  | 3790 | Beige Gray-UL DK     | 640  | Beige Gray-VY DK  |
|  | 3781 | Mocha Brown-DK       | 3790 | Beige Gray-UL DK  |
|  | 739  | Tan-UL VY LT         | 613  | Drab Brown-VY LT  |
|  | 632  | Desert Sand-UL VY DK | 420  | Hazelnut Brown-DK |
|  | 436  | Tan                  | 356  | Terra Cotta-MD    |
|  | 3849 | Teal Green-LT        | 926  | Gray Green-MD     |
|  | 3781 | Mocha Brown-DK       | 3051 | Green Gray-DK     |
|  | 3756 | Baby Blue-UL VY LT   | 3865 | Winter White      |
|  | 502  | Blue Green           | 645  | Beaver Gray-VY DK |

|    |      |                       |      |                       |
|----|------|-----------------------|------|-----------------------|
| ●  | 3371 | Black Brown           | 3799 | Pewter Gray -VY DK    |
| ▨  | 839  | Beige Brown-DK        | 535  | Ash Gray -VY LT       |
| ●  | 838  | Beige Brown-VY DK     | 839  | Beige Brown-DK        |
| ≡  | 712  | Cream                 | 762  | Pearl Gray -VY LT     |
| ⌘  | 414  | Steel Gray -DK        | 3849 | Teal Green-LT         |
| ●  | 927  | Gray Green-LT         | 932  | Antique Blue-LT       |
| н  | 932  | Antique Blue-LT       | 334  | Baby Blue-MD          |
| ▨  | 931  | Antique Blue-MD       | 932  | Antique Blue-LT       |
| ⊕  | 3863 | Mocha Beige-MD        | 3064 | Desert Sand           |
| ✕  | 640  | Beige Gray -VY DK     | 839  | Beige Brown-DK        |
| ➔  | 839  | Beige Brown-DK        | 3021 | Brown Gray -VY DK     |
| ▶  | 501  | Blue Green-DK         | 3815 | Celadon Green-DK      |
| ↓  | 927  | Gray Green-LT         | 647  | Beaver Gray-MD        |
| #  | 640  | Beige Gray -VY DK     | 645  | Beaver Gray -VY DK    |
| ●  | 926  | Gray Green-MD         | 317  | Pewter Gray           |
| L  | 414  | Steel Gray -DK        | 926  | Gray Green-MD         |
| II | 3815 | Celadon Green-DK      | 535  | Ash Gray -VY LT       |
| ☆  | 3768 | Gray Green-DK         | 317  | Pewter Gray           |
| ✕  | 3799 | Pewter Gray -VY DK    | 413  | Pewter Gray -DK       |
| ↔  | 738  | Tan -VY LT            | 437  | Tan-LT                |
| ◎  | 407  | Desert Sand-DK        | 738  | Tan -VY LT            |
| ✕  | 640  | Beige Gray -VY DK     | 3032 | Mocha Brown-MD        |
| ♦♦ | 503  | Blue Green-MD         | 926  | Gray Green-MD         |
| ▨  | 420  | Hazelnut Brown-DK     | 3721 | Shell Pink- DK        |
| ♥  | 3021 | Brown Gray -VY DK     | 935  | Avocado Green-DK      |
| φ  | 535  | Ash Gray -VY LT       | 645  | Beaver Gray -VY DK    |
| ⋯  | 647  | Beaver Gray-MD        | 503  | Blue Green-MD         |
| ≈  | 3787 | Brown Gray -DK        | 3790 | Beige Gray -UL DK     |
| υ  | 613  | Drab Brown-VY LT      | 648  | Beaver Gray-LT        |
| 1  | 369  | Pistachio Green-VY LT | 648  | Beaver Gray-LT        |
| ③  | 938  | Coffee Brown-UL DK    | 3021 | Brown Gray -VY DK     |
| —  | 524  | Fern Green-VY LT      | 738  | Tan -VY LT            |
| ⌘  | 3781 | Mocha Brown-DK        | 730  | Olive Green -VY DK    |
| ✓  | 613  | Drab Brown-VY LT      | 369  | Pistachio Green-VY LT |
| ⋮  | 839  | Beige Brown-DK        | 632  | Desert Sand-UL VY DK  |
| ⊕  | 3863 | Mocha Beige-MD        | 3802 | Antique Mauve-VY DK   |
| «  | 3787 | Brown Gray -DK        | 535  | Ash Gray -VY LT       |
| √  | 613  | Drab Brown-VY LT      | 677  | Old Gold-VY LT        |
| ↑  | 3021 | Brown Gray -VY DK     | 3051 | Green Gray-DK         |
| ▲  | 645  | Beaver Gray -VY DK    | 839  | Beige Brown-DK        |
| ⌘  | 420  | Hazelnut Brown-DK     | 3863 | Mocha Beige-MD        |
| Ⓢ  | 743  | Yellow -MD            | 3827 | Golden Brown-Pale     |
| ✪  | 435  | Brown-VY LT           | 3721 | Shell Pink- DK        |
| *  | 611  | Drab Brown            | 632  | Desert Sand-UL VY DK  |
| ◇  | 738  | Tan -VY LT            | 754  | Peach-LT              |
| ©  | 869  | Hazelnut Brown-VY DK  | 611  | Drab Brown            |
| ⊕  | 3790 | Beige Gray -UL DK     | 611  | Drab Brown            |
| ✱  | 640  | Beige Gray -VY DK     | 3863 | Mocha Beige-MD        |
| ❖  | 3863 | Mocha Beige-MD        | 407  | Desert Sand-DK        |
| ⌒  | 524  | Fern Green-VY LT      | 564  | Jade -VY LT           |
| Ⓢ  | 524  | Fern Green-VY LT      | 927  | Gray Green-LT         |
| Ⓢ  | 564  | Jade -VY LT           | 927  | Gray Green-LT         |
| ⌘  | 503  | Blue Green-MD         | 522  | Fern Green            |
| ♠  | 503  | Blue Green-MD         | 993  | Aquamarine-LT         |
| ◇  | 369  | Pistachio Green-VY LT | 677  | Old Gold-VY LT        |
| ⌘  | 931  | Antique Blue-MD       | 647  | Beaver Gray-MD        |
| ◇  | 932  | Antique Blue-LT       | 648  | Beaver Gray-LT        |
| ↑  | 647  | Beaver Gray-MD        | 993  | Aquamarine-LT         |
| ⌘  | 932  | Antique Blue-LT       | 564  | Jade -VY LT           |

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|    |      |                       |      |                      |
|----|------|-----------------------|------|----------------------|
| ♣  | 839  | Beige Brown-DK        | 869  | Hazelnut Brown-VY DK |
| ▼  | 3790 | Beige Gray-UL DK      | 3802 | Antique Mauve-VY DK  |
| ♣  | 3790 | Beige Gray-UL DK      | 3863 | Mocha Beige-MD       |
| ■  | 3802 | Antique Mauve-VY DK   | 3787 | Brown Gray -DK       |
| =  | 738  | Tan-VY LT             | 3032 | Mocha Brown-MD       |
| ⚙  | 3849 | Teal Green-LT         | 503  | Blue Green-MD        |
| ↖  | 931  | Antique Blue-MD       | 993  | Aquamarine-LT        |
| ⚖  | 564  | Jade-VY LT            | 3024 | Brown Gray -VY LT    |
| ⚖  | 3814 | Aquamarine            | 926  | Gray Green-MD        |
| ○  | 3814 | Aquamarine            | 317  | Pewter Gray          |
| ↑  | 598  | Turquoise-LT          | 932  | Antique Blue-LT      |
| ↘  | 955  | Nile Green-LT         | 598  | Turquoise-LT         |
| ▷  | 598  | Turquoise-LT          | 3024 | Brown Gray -VY LT    |
| 7  | 598  | Turquoise-LT          | 564  | Jade-VY LT           |
| ☒  | 317  | Pewter Gray           | 3810 | Turquoise-DK         |
| ☾  | 414  | Steel Gray -DK        | 3810 | Turquoise-DK         |
| ◎  | 503  | Blue Green-MD         | 931  | Antique Blue-MD      |
| ⚙  | 503  | Blue Green-MD         | 317  | Pewter Gray          |
| z  | 931  | Antique Blue-MD       | 597  | Turquoise            |
| ↗  | 932  | Antique Blue-LT       | 597  | Turquoise            |
| ♂  | 597  | Turquoise             | 598  | Turquoise-LT         |
| ⚙  | 935  | Avocado Green-DK      | 501  | Blue Green-DK        |
| ↖  | 992  | Aquamarine-MD         | 502  | Blue Green           |
| ⚖  | 839  | Beige Brown-DK        | 3346 | Hunter Green         |
| ⊕  | 3052 | Green Gray-MD         | 926  | Gray Green-MD        |
| ⊖  | 831  | Golden Olive-MD       | 839  | Beige Brown-DK       |
|    | 640  | Beige Gray-VY DK      | 522  | Fern Green           |
| ⋈  | 522  | Fern Green            | 3045 | Yellow Beige-DK      |
| ■  | 935  | Avocado Green-DK      | 3371 | Black Brown          |
| ⊙  | 3045 | Yellow Beige-DK       | 3862 | Mocha Beige-DK       |
| ⊗  | 640  | Beige Gray-VY DK      | 3346 | Hunter Green         |
| ◀  | 535  | Ash Gray -VY LT       | 3346 | Hunter Green         |
| ⊗  | 3032 | Mocha Brown-MD        | 3045 | Yellow Beige-DK      |
|    | 611  | Drab Brown            | 640  | Beige Gray-VY DK     |
| ☉  | 3045 | Yellow Beige-DK       | 3863 | Mocha Beige-MD       |
| ⚙  | 839  | Beige Brown-DK        | 611  | Drab Brown           |
| ☐  | 632  | Desert Sand-UL VY DK  | 3346 | Hunter Green         |
| ∅  | 3064 | Desert Sand           | 3045 | Yellow Beige-DK      |
| ▲  | 3864 | Mocha Beige-LT        | 3045 | Yellow Beige-DK      |
| ⚖  | 3782 | Mocha Brown-LT        | 642  | Beige Gray -DK       |
| T  | 642  | Beige Gray -DK        | 3032 | Mocha Brown-MD       |
| □  | 3064 | Desert Sand           | 642  | Beige Gray -DK       |
| ◇  | 747  | Sky Blue-VY LT        | 3811 | Turquoise-VY LT      |
| // | 3755 | Baby Blue             | 598  | Turquoise-LT         |
| ⚖  | 834  | Golden Olive-VY LT    | 436  | Tan                  |
| <  | 743  | Yellow -MD            | 834  | Golden Olive-VY LT   |
| ∇  | 977  | Golden Brown-LT       | 3820 | Straw -DK            |
| ◆  | 839  | Beige Brown-DK        | 300  | Mahogany -VY DK      |
| ↖  | 632  | Desert Sand-UL VY DK  | 300  | Mahogany -VY DK      |
| ⊕  | 838  | Beige Brown-VY DK     | 300  | Mahogany -VY DK      |
| ▪  | 369  | Pistachio Green-VY LT | 543  | Beige Brown-UL VY LT |
| ♂  | ecru | Ecru                  | 746  | Off White            |
| e  | 642  | Beige Gray -DK        | 414  | Steel Gray -DK       |
| ** | 926  | Gray Green-MD         | 642  | Beige Gray -DK       |
| ~  | 3024 | Brown Gray -VY LT     | 955  | Nile Green-LT        |
| ▶  | 3826 | Golden Brown          | 975  | Golden Brown-DK      |
|    | 648  | Beaver Gray-LT        | 598  | Turquoise-LT         |

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         |              |
| 300 | Mahogany-VY DK        | 255        | 100          | 243        | 95           | 218        | 85           |
| 317 | Pewter Gray           | 571        | 224          | 544        | 214          | 489        | 192          |
| 334 | Baby Blue-MD          | 125        | 49           | 119        | 46           | 107        | 42           |
| 356 | Terra Cotta-MD        | 18         | 7            | 18         | 7            | 16         | 6            |
| 369 | Pistachio Green-VY LT | 382        | 150          | 364        | 143          | 327        | 128          |
| 370 | Mustard-MD            | 64         | 25           | 61         | 24           | 54         | 21           |
| 407 | Desert Sand-DK        | 50         | 19           | 47         | 18           | 43         | 16           |
| 413 | Pewter Gray -DK       | 70         | 27           | 67         | 26           | 60         | 23           |
| 414 | Steel Gray-DK         | 542        | 213          | 516        | 203          | 464        | 182          |
| 420 | Hazelnut Brown-DK     | 157        | 61           | 149        | 58           | 134        | 52           |
| 435 | Brown-VY LT           | 84         | 33           | 80         | 31           | 72         | 28           |
| 436 | Tan                   | 109        | 42           | 104        | 40           | 93         | 36           |
| 437 | Tan-LT                | 19         | 7            | 18         | 7            | 17         | 6            |
| 501 | Blue Green-DK         | 597        | 235          | 568        | 223          | 511        | 201          |
| 502 | Blue Green            | 977        | 384          | 930        | 366          | 837        | 329          |
| 503 | Blue Green-MD         | 1421       | 559          | 1353       | 532          | 1218       | 479          |
| 522 | Fern Green            | 749        | 294          | 714        | 281          | 642        | 252          |
| 524 | Fern Green-VY LT      | 1200       | 472          | 1142       | 449          | 1028       | 404          |
| 535 | Ash Gray -VY LT       | 1808       | 711          | 1722       | 677          | 1550       | 610          |
| 543 | Beige Brown-UL VY LT  | 254        | 100          | 241        | 94           | 217        | 85           |
| 564 | Jade-VY LT            | 1010       | 397          | 962        | 378          | 866        | 340          |
| 597 | Turquoise             | 773        | 304          | 736        | 289          | 662        | 260          |
| 598 | Turquoise-LT          | 1177       | 463          | 1121       | 441          | 1009       | 397          |
| 611 | Drab Brown            | 614        | 241          | 585        | 230          | 526        | 207          |
| 613 | Drab Brown-VY LT      | 554        | 218          | 527        | 207          | 474        | 186          |
| 632 | Desert Sand-UL VY DK  | 489        | 192          | 466        | 183          | 419        | 164          |
| 640 | Beige Gray-VY DK      | 2719       | 1070         | 2590       | 1019         | 2331       | 917          |
| 642 | Beige Gray-DK         | 1129       | 444          | 1075       | 423          | 968        | 381          |
| 645 | Beaver Gray-VY DK     | 1963       | 772          | 1870       | 736          | 1683       | 662          |
| 647 | Beaver Gray-MD        | 1319       | 519          | 1256       | 494          | 1131       | 445          |
| 648 | Beaver Gray-LT        | 1064       | 418          | 1013       | 398          | 912        | 359          |
| 676 | Old Gold-LT           | 49         | 19           | 47         | 18           | 42         | 16           |
| 677 | Old Gold-VY LT        | 191        | 75           | 182        | 71           | 164        | 64           |
| 680 | Old Gold-DK           | 45         | 17           | 43         | 16           | 38         | 14           |
| 712 | Cream                 | 253        | 99           | 241        | 94           | 217        | 85           |
| 730 | Olive Green-VY DK     | 66         | 25           | 63         | 24           | 56         | 22           |
| 738 | Tan-VY LT             | 507        | 199          | 483        | 190          | 435        | 171          |
| 739 | Tan-UL VY LT          | 98         | 38           | 93         | 36           | 84         | 33           |
| 743 | Yellow -MD            | 52         | 20           | 49         | 19           | 44         | 17           |
| 744 | Yellow -Pale          | 51         | 20           | 49         | 19           | 44         | 17           |
| 746 | Off White             | 209        | 82           | 199        | 78           | 179        | 70           |
| 747 | Sky Blue-VY LT        | 148        | 58           | 141        | 55           | 127        | 50           |
| 754 | Peach-LT              | 14         | 5            | 14         | 5            | 12         | 4            |
| 762 | Pearl Gray-VY LT      | 352        | 138          | 335        | 131          | 301        | 118          |
| 828 | Blue-UL VY LT         | 146        | 57           | 139        | 54           | 125        | 49           |
| 831 | Golden Olive-MD       | 37         | 14           | 35         | 13           | 32         | 12           |
| 833 | Golden Olive-LT       | 43         | 16           | 41         | 16           | 37         | 14           |
| 834 | Golden Olive-VY LT    | 91         | 35           | 87         | 34           | 78         | 30           |
| 838 | Beige Brown-VY DK     | 239        | 94           | 227        | 89           | 204        | 80           |
| 839 | Beige Brown-DK        | 2880       | 1133         | 2743       | 1079         | 2468       | 971          |
| 869 | Hazelnut Brown-VY DK  | 179        | 70           | 170        | 66           | 153        | 60           |
| 926 | Gray Green-MD         | 1635       | 643          | 1557       | 612          | 1401       | 551          |
| 927 | Gray Green-LT         | 933        | 367          | 889        | 350          | 800        | 314          |
| 931 | Antique Blue-MD       | 1153       | 453          | 1098       | 432          | 988        | 388          |

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|      |                      |      |      |      |     |      |     |
|------|----------------------|------|------|------|-----|------|-----|
| 932  | Antique Blue-LT      | 1993 | 784  | 1898 | 747 | 1709 | 672 |
| 935  | Avocado Green-DK     | 729  | 287  | 694  | 273 | 625  | 246 |
| 938  | Coffee Brown-UL DK   | 1019 | 401  | 971  | 382 | 874  | 344 |
| 955  | Nile Green-LT        | 437  | 172  | 416  | 163 | 375  | 147 |
| 964  | Sea Green-LT         | 73   | 28   | 69   | 27  | 62   | 24  |
| 975  | Golden Brown-DK      | 128  | 50   | 122  | 48  | 110  | 43  |
| 977  | Golden Brown-LT      | 39   | 15   | 37   | 14  | 34   | 13  |
| 992  | Aquamarine-MD        | 174  | 68   | 166  | 65  | 149  | 58  |
| 993  | Aquamarine-LT        | 1026 | 403  | 977  | 384 | 880  | 346 |
| 3021 | Brown Gray -VY DK    | 2529 | 995  | 2408 | 948 | 2167 | 853 |
| 3024 | Brown Gray -VY LT    | 872  | 343  | 830  | 326 | 747  | 294 |
| 3032 | Mocha Brown-MD       | 841  | 331  | 801  | 315 | 720  | 283 |
| 3045 | Yellow Beige-DK      | 302  | 118  | 288  | 113 | 259  | 101 |
| 3051 | Green Gray-DK        | 568  | 223  | 541  | 212 | 486  | 191 |
| 3052 | Green Gray-MD        | 650  | 255  | 619  | 243 | 557  | 219 |
| 3064 | Desert Sand          | 66   | 25   | 63   | 24  | 56   | 22  |
| 3346 | Hunter Green         | 630  | 248  | 600  | 236 | 540  | 212 |
| 3371 | Black Brown          | 2574 | 1013 | 2451 | 964 | 2206 | 868 |
| 3721 | Shell Pink- DK       | 75   | 29   | 72   | 28  | 64   | 25  |
| 3755 | Baby Blue            | 37   | 14   | 36   | 14  | 32   | 12  |
| 3756 | Baby Blue-UL VY LT   | 274  | 107  | 261  | 102 | 235  | 92  |
| 3768 | Gray Green-DK        | 143  | 56   | 136  | 53  | 123  | 48  |
| 3770 | Tawny -VY LT         | 64   | 25   | 61   | 24  | 55   | 21  |
| 3781 | Mocha Brown-DK       | 596  | 234  | 567  | 223 | 511  | 201 |
| 3782 | Mocha Brown-LT       | 672  | 264  | 640  | 251 | 576  | 226 |
| 3787 | Brown Gray -DK       | 1472 | 579  | 1402 | 551 | 1262 | 496 |
| 3790 | Beige Gray-UL DK     | 1757 | 691  | 1674 | 659 | 1506 | 592 |
| 3799 | Pewter Gray -VY DK   | 750  | 295  | 715  | 281 | 643  | 253 |
| 3802 | Antique Mauve-VY DK  | 115  | 45   | 110  | 43  | 99   | 38  |
| 3810 | Turquoise-DK         | 358  | 140  | 341  | 134 | 307  | 120 |
| 3811 | Turquoise-VY LT      | 140  | 55   | 133  | 52  | 120  | 47  |
| 3814 | Aquamarine           | 228  | 89   | 217  | 85  | 195  | 76  |
| 3815 | Celadon Green-DK     | 696  | 274  | 663  | 261 | 597  | 235 |
| 3820 | Straw -DK            | 14   | 5    | 13   | 5   | 12   | 4   |
| 3826 | Golden Brown         | 47   | 18   | 45   | 17  | 41   | 16  |
| 3827 | Golden Brown-Pale    | 45   | 17   | 43   | 16  | 39   | 15  |
| 3828 | Hazelnut Brown       | 60   | 23   | 57   | 22  | 51   | 20  |
| 3829 | Old Gold-VY DK       | 37   | 14   | 35   | 13  | 32   | 12  |
| 3849 | Teal Green-LT        | 508  | 200  | 484  | 190 | 435  | 171 |
| 3862 | Mocha Beige-DK       | 40   | 15   | 38   | 14  | 34   | 13  |
| 3863 | Mocha Beige-MD       | 427  | 168  | 407  | 160 | 366  | 144 |
| 3864 | Mocha Beige-LT       | 38   | 14   | 36   | 14  | 33   | 12  |
| 3865 | Winter White         | 369  | 145  | 351  | 138 | 316  | 124 |
| 3866 | Mocha Brown-UL VY LT | 406  | 159  | 386  | 151 | 348  | 137 |
| ecru | Ecru                 | 279  | 109  | 266  | 104 | 239  | 94  |

| Extended thread usage table. |                       |            |              |            |              |            |              |
|------------------------------|-----------------------|------------|--------------|------------|--------------|------------|--------------|
| DMC                          | Name                  | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
|                              |                       | 10         |              | 12         |              | 24         |              |
| 300                          | Mahogany -VY DK       | 392        | 153          | 327        | 128          | 164        | 64           |
| 317                          | Pewter Gray           | 880        | 346          | 734        | 288          | 367        | 144          |
| 334                          | Baby Blue-MD          | 193        | 76           | 161        | 63           | 80         | 32           |
| 356                          | Terra Cotta-MD        | 29         | 11           | 24         | 9            | 12         | 5            |
| 369                          | Pistachio Green-VY LT | 589        | 230          | 491        | 192          | 245        | 96           |
| 370                          | Mustard-MD            | 97         | 38           | 81         | 32           | 41         | 16           |
| 407                          | Desert Sand-DK        | 77         | 29           | 65         | 24           | 32         | 12           |



|      |                      |      |      |      |      |      |     |
|------|----------------------|------|------|------|------|------|-----|
| 413  | Pewter Gray -DK      | 108  | 41   | 90   | 35   | 45   | 17  |
| 414  | Steel Gray-DK        | 835  | 328  | 696  | 273  | 348  | 137 |
| 420  | Hazelnut Brown-DK    | 241  | 94   | 201  | 78   | 101  | 39  |
| 435  | Brown-VY LT          | 130  | 50   | 108  | 42   | 54   | 21  |
| 436  | Tan                  | 167  | 65   | 140  | 54   | 70   | 27  |
| 437  | Tan-LT               | 31   | 11   | 26   | 9    | 13   | 5   |
| 501  | Blue Green-DK        | 920  | 362  | 767  | 302  | 383  | 151 |
| 502  | Blue Green           | 1507 | 592  | 1256 | 494  | 628  | 247 |
| 503  | Blue Green-MD        | 2192 | 862  | 1827 | 719  | 914  | 359 |
| 522  | Fern Green           | 1156 | 454  | 963  | 378  | 482  | 189 |
| 524  | Fern Green-VY LT     | 1850 | 727  | 1542 | 606  | 771  | 303 |
| 535  | Ash Gray -VY LT      | 2790 | 1098 | 2325 | 915  | 1163 | 458 |
| 543  | Beige Brown-UL VY LT | 391  | 153  | 326  | 128  | 163  | 64  |
| 564  | Jade-VY LT           | 1559 | 612  | 1299 | 510  | 650  | 255 |
| 597  | Turquoise            | 1192 | 468  | 993  | 390  | 497  | 195 |
| 598  | Turquoise-LT         | 1816 | 715  | 1514 | 596  | 757  | 298 |
| 611  | Drab Brown           | 947  | 373  | 789  | 311  | 395  | 155 |
| 613  | Drab Brown-VY LT     | 853  | 335  | 711  | 279  | 356  | 140 |
| 632  | Desert Sand-UL VY DK | 754  | 295  | 629  | 246  | 314  | 123 |
| 640  | Beige Gray-VY DK     | 4196 | 1651 | 3497 | 1376 | 1748 | 688 |
| 642  | Beige Gray-DK        | 1742 | 686  | 1452 | 572  | 726  | 286 |
| 645  | Beaver Gray-VY DK    | 3029 | 1192 | 2525 | 993  | 1262 | 497 |
| 647  | Beaver Gray-MD       | 2036 | 801  | 1697 | 668  | 848  | 334 |
| 648  | Beaver Gray-LT       | 1642 | 646  | 1368 | 539  | 684  | 269 |
| 676  | Old Gold-LT          | 76   | 29   | 63   | 24   | 32   | 12  |
| 677  | Old Gold-VY LT       | 295  | 115  | 246  | 96   | 123  | 48  |
| 680  | Old Gold-DK          | 68   | 25   | 57   | 21   | 29   | 11  |
| 712  | Cream                | 391  | 153  | 326  | 128  | 163  | 64  |
| 730  | Olive Green-VY DK    | 101  | 40   | 84   | 33   | 42   | 17  |
| 738  | Tan-VY LT            | 783  | 308  | 653  | 257  | 326  | 128 |
| 739  | Tan-UL VY LT         | 151  | 59   | 126  | 50   | 63   | 25  |
| 743  | Yellow -MD           | 79   | 31   | 66   | 26   | 33   | 13  |
| 744  | Yellow -Pale         | 79   | 31   | 66   | 26   | 33   | 13  |
| 746  | Off White            | 322  | 126  | 269  | 105  | 134  | 53  |
| 747  | Sky Blue-VY LT       | 229  | 90   | 191  | 75   | 95   | 38  |
| 754  | Peach-LT             | 22   | 7    | 18   | 6    | 9    | 3   |
| 762  | Pearl Gray-VY LT     | 542  | 212  | 452  | 177  | 226  | 89  |
| 828  | Blue-UL VY LT        | 225  | 88   | 188  | 74   | 94   | 37  |
| 831  | Golden Olive-MD      | 58   | 22   | 48   | 18   | 24   | 9   |
| 833  | Golden Olive-LT      | 67   | 25   | 56   | 21   | 28   | 11  |
| 834  | Golden Olive-VY LT   | 140  | 54   | 117  | 45   | 59   | 23  |
| 838  | Beige Brown-VY DK    | 367  | 144  | 306  | 120  | 153  | 60  |
| 839  | Beige Brown-DK       | 4442 | 1748 | 3702 | 1457 | 1851 | 728 |
| 869  | Hazelnut Brown-VY DK | 275  | 108  | 230  | 90   | 115  | 45  |
| 926  | Gray Green-MD        | 2522 | 992  | 2102 | 827  | 1051 | 413 |
| 927  | Gray Green-LT        | 1440 | 565  | 1200 | 471  | 600  | 236 |
| 931  | Antique Blue-MD      | 1778 | 698  | 1482 | 582  | 741  | 291 |
| 932  | Antique Blue-LT      | 3076 | 1210 | 2564 | 1008 | 1282 | 504 |
| 935  | Avocado Green-DK     | 1125 | 443  | 938  | 369  | 469  | 185 |
| 938  | Coffee Brown-UL DK   | 1573 | 619  | 1311 | 516  | 656  | 258 |
| 955  | Nile Green-LT        | 675  | 265  | 563  | 221  | 281  | 110 |
| 964  | Sea Green-LT         | 112  | 43   | 93   | 36   | 47   | 18  |
| 975  | Golden Brown-DK      | 198  | 77   | 165  | 65   | 83   | 32  |
| 977  | Golden Brown-LT      | 61   | 23   | 51   | 20   | 26   | 10  |
| 992  | Aquamarine-MD        | 268  | 104  | 224  | 87   | 112  | 44  |
| 993  | Aquamarine-LT        | 1584 | 623  | 1320 | 519  | 660  | 260 |
| 3021 | Brown Gray -VY DK    | 3901 | 1535 | 3251 | 1280 | 1625 | 640 |
| 3024 | Brown Gray -VY LT    | 1345 | 529  | 1121 | 441  | 560  | 221 |
| 3032 | Mocha Brown-MD       | 1296 | 509  | 1080 | 425  | 540  | 212 |

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|      |                      |      |      |      |      |      |     |
|------|----------------------|------|------|------|------|------|-----|
| 3045 | Yellow Beige-DK      | 466  | 182  | 389  | 152  | 194  | 76  |
| 3051 | Green Gray-DK        | 875  | 344  | 729  | 287  | 365  | 143 |
| 3052 | Green Gray-MD        | 1003 | 394  | 836  | 329  | 418  | 164 |
| 3064 | Desert Sand          | 101  | 40   | 84   | 33   | 42   | 17  |
| 3346 | Hunter Green         | 972  | 382  | 810  | 318  | 405  | 159 |
| 3371 | Black Brown          | 3971 | 1562 | 3309 | 1302 | 1655 | 651 |
| 3721 | Shell Pink-DK        | 115  | 45   | 96   | 38   | 48   | 19  |
| 3755 | Baby Blue            | 58   | 22   | 48   | 18   | 24   | 9   |
| 3756 | Baby Blue-UL VY LT   | 423  | 166  | 353  | 138  | 176  | 69  |
| 3768 | Gray Green-DK        | 221  | 86   | 185  | 72   | 92   | 36  |
| 3770 | Tawny -VY LT         | 99   | 38   | 83   | 32   | 41   | 16  |
| 3781 | Mocha Brown-DK       | 920  | 362  | 767  | 302  | 383  | 151 |
| 3782 | Mocha Brown-LT       | 1037 | 407  | 864  | 339  | 432  | 170 |
| 3787 | Brown Gray -DK       | 2272 | 893  | 1893 | 744  | 947  | 372 |
| 3790 | Beige Gray-UL DK     | 2711 | 1066 | 2259 | 888  | 1130 | 444 |
| 3799 | Pewter Gray -VY DK   | 1157 | 455  | 965  | 380  | 482  | 190 |
| 3802 | Antique Mauve-VY DK  | 178  | 68   | 149  | 57   | 74   | 29  |
| 3810 | Turquoise-DK         | 553  | 216  | 461  | 180  | 230  | 90  |
| 3811 | Turquoise-VY LT      | 216  | 85   | 180  | 71   | 90   | 35  |
| 3814 | Aquamarine           | 351  | 137  | 293  | 114  | 146  | 57  |
| 3815 | Celadon Green-DK     | 1075 | 423  | 896  | 353  | 448  | 176 |
| 3820 | Straw -DK            | 22   | 7    | 18   | 6    | 9    | 3   |
| 3826 | Golden Brown         | 74   | 29   | 62   | 24   | 31   | 12  |
| 3827 | Golden BrownPale     | 70   | 27   | 59   | 23   | 29   | 11  |
| 3828 | Hazelnut Brown       | 92   | 36   | 77   | 30   | 38   | 15  |
| 3829 | Old Gold-VY DK       | 58   | 22   | 48   | 18   | 24   | 9   |
| 3849 | Teal Green-LT        | 783  | 308  | 653  | 257  | 326  | 128 |
| 3862 | Mocha Beige-DK       | 61   | 23   | 51   | 20   | 26   | 10  |
| 3863 | Mocha Beige-MD       | 659  | 259  | 549  | 216  | 275  | 108 |
| 3864 | Mocha Beige-LT       | 59   | 22   | 50   | 18   | 25   | 9   |
| 3865 | Winter White         | 569  | 223  | 474  | 186  | 237  | 93  |
| 3866 | Mocha Brown-UL VY LT | 626  | 247  | 522  | 206  | 261  | 103 |
| ecru | Ecru                 | 430  | 169  | 359  | 141  | 179  | 71  |

| Extended thread usage table. |                       |            |              |            |              |            |              |
|------------------------------|-----------------------|------------|--------------|------------|--------------|------------|--------------|
| DMC                          | Name                  | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
|                              |                       | 25         |              | 26         |              | 27         |              |
| 300                          | Mahogany-VY DK        | 157        | 61           | 151        | 59           | 145        | 57           |
| 317                          | Pewter Gray           | 352        | 138          | 339        | 133          | 326        | 128          |
| 334                          | Baby Blue-MD          | 77         | 30           | 74         | 29           | 71         | 28           |
| 356                          | Terra Cotta-MD        | 12         | 4            | 11         | 4            | 11         | 4            |
| 369                          | Pistachio Green-VY LT | 235        | 92           | 226        | 89           | 218        | 85           |
| 370                          | Mustard-MD            | 39         | 15           | 37         | 15           | 36         | 14           |
| 407                          | Desert Sand-DK        | 31         | 12           | 30         | 11           | 29         | 11           |
| 413                          | Pewter Gray -DK       | 43         | 17           | 42         | 16           | 40         | 15           |
| 414                          | Steel Gray-DK         | 334        | 131          | 321        | 126          | 309        | 121          |
| 420                          | Hazelnut Brown-DK     | 96         | 37           | 93         | 36           | 89         | 35           |
| 435                          | Brown-VY LT           | 52         | 20           | 50         | 19           | 48         | 19           |
| 436                          | Tan                   | 67         | 26           | 64         | 25           | 62         | 24           |
| 437                          | Tan-LT                | 12         | 4            | 12         | 4            | 11         | 4            |
| 501                          | Blue Green-DK         | 368        | 145          | 354        | 139          | 341        | 134          |
| 502                          | Blue Green            | 603        | 237          | 579        | 228          | 558        | 219          |
| 503                          | Blue Green-MD         | 877        | 345          | 843        | 332          | 812        | 319          |
| 522                          | Fern Green            | 462        | 181          | 444        | 174          | 428        | 168          |
| 524                          | Fern Green-VY LT      | 740        | 291          | 712        | 280          | 685        | 269          |
| 535                          | Ash Gray-VY LT        | 1116       | 439          | 1073       | 422          | 1033       | 407          |

|      |                      |      |     |      |     |      |     |
|------|----------------------|------|-----|------|-----|------|-----|
| 543  | Beige Brown-UL VY LT | 156  | 61  | 150  | 59  | 145  | 57  |
| 564  | Jade-VY LT           | 624  | 245 | 600  | 235 | 577  | 227 |
| 597  | Turquoise            | 477  | 187 | 458  | 180 | 441  | 173 |
| 598  | Turquoise-LT         | 726  | 286 | 699  | 275 | 673  | 265 |
| 611  | Drab Brown           | 379  | 149 | 364  | 143 | 351  | 138 |
| 613  | Drab Brown-VY LT     | 341  | 134 | 328  | 129 | 316  | 124 |
| 632  | Desert Sand-UL VY DK | 302  | 118 | 290  | 114 | 279  | 109 |
| 640  | Beige Gray-VY DK     | 1678 | 660 | 1614 | 635 | 1554 | 611 |
| 642  | Beige Gray-DK        | 697  | 274 | 670  | 264 | 645  | 254 |
| 645  | Beaver Gray-VY DK    | 1212 | 477 | 1165 | 458 | 1122 | 441 |
| 647  | Beaver Gray-MD       | 814  | 320 | 783  | 308 | 754  | 297 |
| 648  | Beaver Gray-LT       | 657  | 258 | 631  | 249 | 608  | 239 |
| 676  | Old Gold-LT          | 30   | 12  | 29   | 11  | 28   | 11  |
| 677  | Old Gold-VY LT       | 118  | 46  | 114  | 44  | 109  | 43  |
| 680  | Old Gold-DK          | 27   | 10  | 26   | 10  | 25   | 9   |
| 712  | Cream                | 156  | 61  | 150  | 59  | 145  | 57  |
| 730  | Olive Green-VY DK    | 40   | 16  | 39   | 15  | 37   | 15  |
| 738  | Tan-VY LT            | 313  | 123 | 301  | 118 | 290  | 114 |
| 739  | Tan-UL VY LT         | 60   | 24  | 58   | 23  | 56   | 22  |
| 743  | Yellow -MD           | 32   | 12  | 30   | 12  | 29   | 11  |
| 744  | Yellow -Pale         | 32   | 12  | 30   | 12  | 29   | 11  |
| 746  | Off White            | 129  | 50  | 124  | 48  | 119  | 47  |
| 747  | Sky Blue-VY LT       | 91   | 36  | 88   | 35  | 85   | 33  |
| 754  | Peach-LT             | 9    | 3   | 8    | 3   | 8    | 3   |
| 762  | Pearl Gray-VY LT     | 217  | 85  | 208  | 82  | 201  | 79  |
| 828  | Blue-UL VY LT        | 90   | 35  | 87   | 34  | 83   | 33  |
| 831  | Golden Olive-MD      | 23   | 9   | 22   | 8   | 21   | 8   |
| 833  | Golden Olive-LT      | 27   | 10  | 26   | 10  | 25   | 9   |
| 834  | Golden Olive-VY LT   | 56   | 22  | 54   | 21  | 52   | 20  |
| 838  | Beige Brown-VY DK    | 147  | 58  | 141  | 55  | 136  | 53  |
| 839  | Beige Brown-DK       | 1777 | 699 | 1709 | 672 | 1645 | 647 |
| 869  | Hazelnut Brown-VY DK | 110  | 43  | 106  | 42  | 102  | 40  |
| 926  | Gray Green-MD        | 1009 | 397 | 970  | 381 | 934  | 367 |
| 927  | Gray Green-LT        | 576  | 226 | 554  | 217 | 533  | 209 |
| 931  | Antique Blue-MD      | 711  | 279 | 684  | 269 | 659  | 259 |
| 932  | Antique Blue-LT      | 1230 | 484 | 1183 | 465 | 1139 | 448 |
| 935  | Avocado Green-DK     | 450  | 177 | 433  | 170 | 417  | 164 |
| 938  | Coffee Brown-UL DK   | 629  | 248 | 605  | 238 | 583  | 229 |
| 955  | Nile Green-LT        | 270  | 106 | 260  | 102 | 250  | 98  |
| 964  | Sea Green-LT         | 45   | 17  | 43   | 17  | 41   | 16  |
| 975  | Golden Brown-DK      | 79   | 31  | 76   | 30  | 73   | 29  |
| 977  | Golden Brown-LT      | 24   | 9   | 24   | 9   | 23   | 9   |
| 992  | Aquamarine-MD        | 107  | 42  | 103  | 40  | 99   | 39  |
| 993  | Aquamarine-LT        | 634  | 249 | 609  | 240 | 587  | 231 |
| 3021 | Brown Gray -VY DK    | 1560 | 614 | 1500 | 591 | 1445 | 569 |
| 3024 | Brown Gray -VY LT    | 538  | 212 | 517  | 204 | 498  | 196 |
| 3032 | Mocha Brown-MD       | 518  | 204 | 498  | 196 | 480  | 189 |
| 3045 | Yellow Beige-DK      | 186  | 73  | 179  | 70  | 173  | 67  |
| 3051 | Green Gray-DK        | 350  | 138 | 336  | 132 | 324  | 127 |
| 3052 | Green Gray-MD        | 401  | 158 | 386  | 152 | 371  | 146 |
| 3064 | Desert Sand          | 40   | 16  | 39   | 15  | 37   | 15  |
| 3346 | Hunter Green         | 389  | 153 | 374  | 147 | 360  | 141 |
| 3371 | Black Brown          | 1588 | 625 | 1527 | 601 | 1471 | 579 |
| 3721 | Shell Pink- DK       | 46   | 18  | 44   | 17  | 43   | 17  |
| 3755 | Baby Blue            | 23   | 9   | 22   | 8   | 21   | 8   |
| 3756 | Baby Blue-UL VY LT   | 169  | 66  | 163  | 64  | 157  | 61  |
| 3768 | Gray Green-DK        | 89   | 35  | 85   | 33  | 82   | 32  |
| 3770 | Tawny -VY LT         | 40   | 15  | 38   | 15  | 37   | 14  |
| 3781 | Mocha Brown-DK       | 368  | 145 | 354  | 139 | 341  | 134 |

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|      |                      |      |     |      |     |      |     |
|------|----------------------|------|-----|------|-----|------|-----|
| 3782 | Mocha Brown-LT       | 415  | 163 | 399  | 156 | 384  | 151 |
| 3787 | Brown Gray -DK       | 909  | 357 | 874  | 343 | 841  | 331 |
| 3790 | Beige Gray-UL DK     | 1084 | 426 | 1043 | 410 | 1004 | 395 |
| 3799 | Pewter Gray -VY DK   | 463  | 182 | 445  | 175 | 429  | 169 |
| 3802 | Antique Mauve-VY DK  | 71   | 27  | 69   | 26  | 66   | 25  |
| 3810 | Turquoise-DK         | 221  | 86  | 213  | 83  | 205  | 80  |
| 3811 | Turquoise-VY LT      | 86   | 34  | 83   | 33  | 80   | 31  |
| 3814 | Aquamarine           | 140  | 55  | 135  | 53  | 130  | 51  |
| 3815 | Celadon Green-DK     | 430  | 169 | 413  | 163 | 398  | 157 |
| 3820 | Straw -DK            | 9    | 3   | 8    | 3   | 8    | 3   |
| 3826 | Golden Brown         | 30   | 12  | 28   | 11  | 27   | 11  |
| 3827 | Golden Brown-Pale    | 28   | 11  | 27   | 10  | 26   | 10  |
| 3828 | Hazelnut Brown       | 37   | 14  | 35   | 14  | 34   | 13  |
| 3829 | Old Gold-VY DK       | 23   | 9   | 22   | 8   | 21   | 8   |
| 3849 | Teal Green-LT        | 313  | 123 | 301  | 118 | 290  | 114 |
| 3862 | Mocha Beige-DK       | 24   | 9   | 24   | 9   | 23   | 9   |
| 3863 | Mocha Beige-MD       | 264  | 104 | 253  | 100 | 244  | 96  |
| 3864 | Mocha Beige-LT       | 24   | 9   | 23   | 8   | 22   | 8   |
| 3865 | Winter White         | 228  | 89  | 219  | 86  | 211  | 83  |
| 3866 | Mocha Brown-UL VY LT | 251  | 99  | 241  | 95  | 232  | 91  |
| ecru | Ecru                 | 172  | 68  | 165  | 65  | 159  | 63  |

| Extended thread usage table. |                       |            |              |            |              |            |              |
|------------------------------|-----------------------|------------|--------------|------------|--------------|------------|--------------|
| DMC                          | Name                  | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
|                              |                       | 28         |              | 30         |              | 32         |              |
| 300                          | Mahogany-VY DK        | 140        | 55           | 131        | 51           | 123        | 48           |
| 317                          | Pewter Gray           | 314        | 123          | 293        | 115          | 275        | 108          |
| 334                          | Baby Blue-MD          | 69         | 27           | 64         | 25           | 60         | 24           |
| 356                          | Terra Cotta-MD        | 10         | 4            | 10         | 4            | 9          | 3            |
| 369                          | Pistachio Green-VY LT | 210        | 82           | 196        | 77           | 184        | 72           |
| 370                          | Mustard-MD            | 35         | 14           | 32         | 13           | 30         | 12           |
| 407                          | Desert Sand-DK        | 28         | 10           | 26         | 10           | 24         | 9            |
| 413                          | Pewter Gray -DK       | 39         | 15           | 36         | 14           | 34         | 13           |
| 414                          | Steel Gray-DK         | 298        | 117          | 278        | 109          | 261        | 102          |
| 420                          | Hazelnut Brown-DK     | 86         | 33           | 80         | 31           | 75         | 29           |
| 435                          | Brown-VY LT           | 46         | 18           | 43         | 17           | 41         | 16           |
| 436                          | Tan                   | 60         | 23           | 56         | 22           | 52         | 20           |
| 437                          | Tan-LT                | 11         | 4            | 10         | 4            | 10         | 3            |
| 501                          | Blue Green-DK         | 329        | 129          | 307        | 121          | 287        | 113          |
| 502                          | Blue Green            | 538        | 212          | 502        | 197          | 471        | 185          |
| 503                          | Blue Green-MD         | 783        | 308          | 731        | 287          | 685        | 269          |
| 522                          | Fern Green            | 413        | 162          | 385        | 151          | 361        | 142          |
| 524                          | Fern Green-VY LT      | 661        | 260          | 617        | 242          | 578        | 227          |
| 535                          | Ash Gray -VY LT       | 996        | 392          | 930        | 366          | 872        | 343          |
| 543                          | Beige Brown-UL VY LT  | 140        | 55           | 130        | 51           | 122        | 48           |
| 564                          | Jade-VY LT            | 557        | 219          | 520        | 204          | 487        | 191          |
| 597                          | Turquoise             | 426        | 167          | 397        | 156          | 372        | 146          |
| 598                          | Turquoise-LT          | 649        | 255          | 605        | 238          | 568        | 223          |
| 611                          | Drab Brown            | 338        | 133          | 316        | 124          | 296        | 116          |
| 613                          | Drab Brown-VY LT      | 305        | 120          | 284        | 112          | 267        | 105          |
| 632                          | Desert Sand-UL VY DK  | 269        | 105          | 251        | 98           | 236        | 92           |
| 640                          | Beige Gray-VY DK      | 1499       | 590          | 1399       | 550          | 1311       | 516          |
| 642                          | Beige Gray-DK         | 622        | 245          | 581        | 229          | 545        | 214          |
| 645                          | Beaver Gray-VY DK     | 1082       | 426          | 1010       | 397          | 947        | 372          |
| 647                          | Beaver Gray-MD        | 727        | 286          | 679        | 267          | 636        | 250          |
| 648                          | Beaver Gray-LT        | 586        | 231          | 547        | 215          | 513        | 202          |
| 676                          | Old Gold-LT           | 27         | 10           | 25         | 10           | 24         | 9            |

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|      |                      |      |     |      |     |      |     |
|------|----------------------|------|-----|------|-----|------|-----|
| 677  | Old Gold-VY LT       | 105  | 41  | 98   | 38  | 92   | 36  |
| 680  | Old Gold-DK          | 24   | 9   | 23   | 8   | 21   | 8   |
| 712  | Cream                | 140  | 55  | 130  | 51  | 122  | 48  |
| 730  | Olive Green-VY DK    | 36   | 14  | 34   | 13  | 32   | 12  |
| 738  | Tan-VY LT            | 280  | 110 | 261  | 103 | 245  | 96  |
| 739  | Tan-UL VY LT         | 54   | 21  | 50   | 20  | 47   | 19  |
| 743  | Yellow -MD           | 28   | 11  | 26   | 10  | 25   | 10  |
| 744  | Yellow -Pale         | 28   | 11  | 26   | 10  | 25   | 10  |
| 746  | Off White            | 115  | 45  | 107  | 42  | 101  | 39  |
| 747  | Sky Blue-VY LT       | 82   | 32  | 76   | 30  | 71   | 28  |
| 754  | Peach-LT             | 8    | 3   | 7    | 2   | 7    | 2   |
| 762  | Pearl Gray-VY LT     | 194  | 76  | 181  | 71  | 169  | 66  |
| 828  | Blue-UL VY LT        | 80   | 32  | 75   | 29  | 70   | 28  |
| 831  | Golden Olive-MD      | 21   | 8   | 19   | 7   | 18   | 7   |
| 833  | Golden Olive-LT      | 24   | 9   | 22   | 8   | 21   | 8   |
| 834  | Golden Olive-VY LT   | 50   | 19  | 47   | 18  | 44   | 17  |
| 838  | Beige Brown-VY DK    | 131  | 51  | 122  | 48  | 115  | 45  |
| 839  | Beige Brown-DK       | 1587 | 624 | 1481 | 583 | 1388 | 546 |
| 869  | Hazelnut Brown-VY DK | 98   | 39  | 92   | 36  | 86   | 34  |
| 926  | Gray Green-MD        | 901  | 354 | 841  | 331 | 788  | 310 |
| 927  | Gray Green-LT        | 514  | 202 | 480  | 188 | 450  | 177 |
| 931  | Antique Blue-MD      | 635  | 249 | 593  | 233 | 556  | 218 |
| 932  | Antique Blue-LT      | 1099 | 432 | 1025 | 403 | 961  | 378 |
| 935  | Avocado Green-DK     | 402  | 158 | 375  | 148 | 352  | 138 |
| 938  | Coffee Brown-UL DK   | 562  | 221 | 524  | 206 | 492  | 194 |
| 955  | Nile Green-LT        | 241  | 95  | 225  | 88  | 211  | 83  |
| 964  | Sea Green-LT         | 40   | 15  | 37   | 14  | 35   | 14  |
| 975  | Golden Brown-DK      | 71   | 28  | 66   | 26  | 62   | 24  |
| 977  | Golden Brown-LT      | 22   | 8   | 20   | 8   | 19   | 7   |
| 992  | Aquamarine-MD        | 96   | 37  | 89   | 35  | 84   | 33  |
| 993  | Aquamarine-LT        | 566  | 222 | 528  | 208 | 495  | 195 |
| 3021 | Brown Gray -VY DK    | 1393 | 548 | 1300 | 512 | 1219 | 480 |
| 3024 | Brown Gray -VY LT    | 480  | 189 | 448  | 176 | 420  | 165 |
| 3032 | Mocha Brown-MD       | 463  | 182 | 432  | 170 | 405  | 159 |
| 3045 | Yellow Beige-DK      | 167  | 65  | 155  | 61  | 146  | 57  |
| 3051 | Green Gray-DK        | 312  | 123 | 292  | 115 | 273  | 107 |
| 3052 | Green Gray-MD        | 358  | 141 | 334  | 131 | 313  | 123 |
| 3064 | Desert Sand          | 36   | 14  | 34   | 13  | 32   | 12  |
| 3346 | Hunter Green         | 347  | 136 | 324  | 127 | 304  | 119 |
| 3371 | Black Brown          | 1418 | 558 | 1324 | 521 | 1241 | 488 |
| 3721 | Shell Pink- DK       | 41   | 16  | 38   | 15  | 36   | 14  |
| 3755 | Baby Blue            | 21   | 8   | 19   | 7   | 18   | 7   |
| 3756 | Baby Blue-UL VY LT   | 151  | 59  | 141  | 55  | 132  | 52  |
| 3768 | Gray Green-DK        | 79   | 31  | 74   | 29  | 69   | 27  |
| 3770 | Tawny -VY LT         | 35   | 14  | 33   | 13  | 31   | 12  |
| 3781 | Mocha Brown-DK       | 329  | 129 | 307  | 121 | 287  | 113 |
| 3782 | Mocha Brown-LT       | 370  | 145 | 346  | 136 | 324  | 127 |
| 3787 | Brown Gray -DK       | 811  | 319 | 757  | 298 | 710  | 279 |
| 3790 | Beige Gray-UL DK     | 968  | 381 | 904  | 355 | 847  | 333 |
| 3799 | Pewter Gray -VY DK   | 413  | 163 | 386  | 152 | 362  | 142 |
| 3802 | Antique Mauve-VY DK  | 64   | 24  | 59   | 23  | 56   | 21  |
| 3810 | Turquoise-DK         | 197  | 77  | 184  | 72  | 173  | 68  |
| 3811 | Turquoise-VY LT      | 77   | 30  | 72   | 28  | 68   | 26  |
| 3814 | Aquamarine           | 125  | 49  | 117  | 46  | 110  | 43  |
| 3815 | Celadon Green-DK     | 384  | 151 | 358  | 141 | 336  | 132 |
| 3820 | Straw -DK            | 8    | 3   | 7    | 2   | 7    | 2   |
| 3826 | Golden Brown         | 26   | 10  | 25   | 10  | 23   | 9   |
| 3827 | Golden Brown-Pale    | 25   | 10  | 23   | 9   | 22   | 8   |
| 3828 | Hazelnut Brown       | 33   | 13  | 31   | 12  | 29   | 11  |

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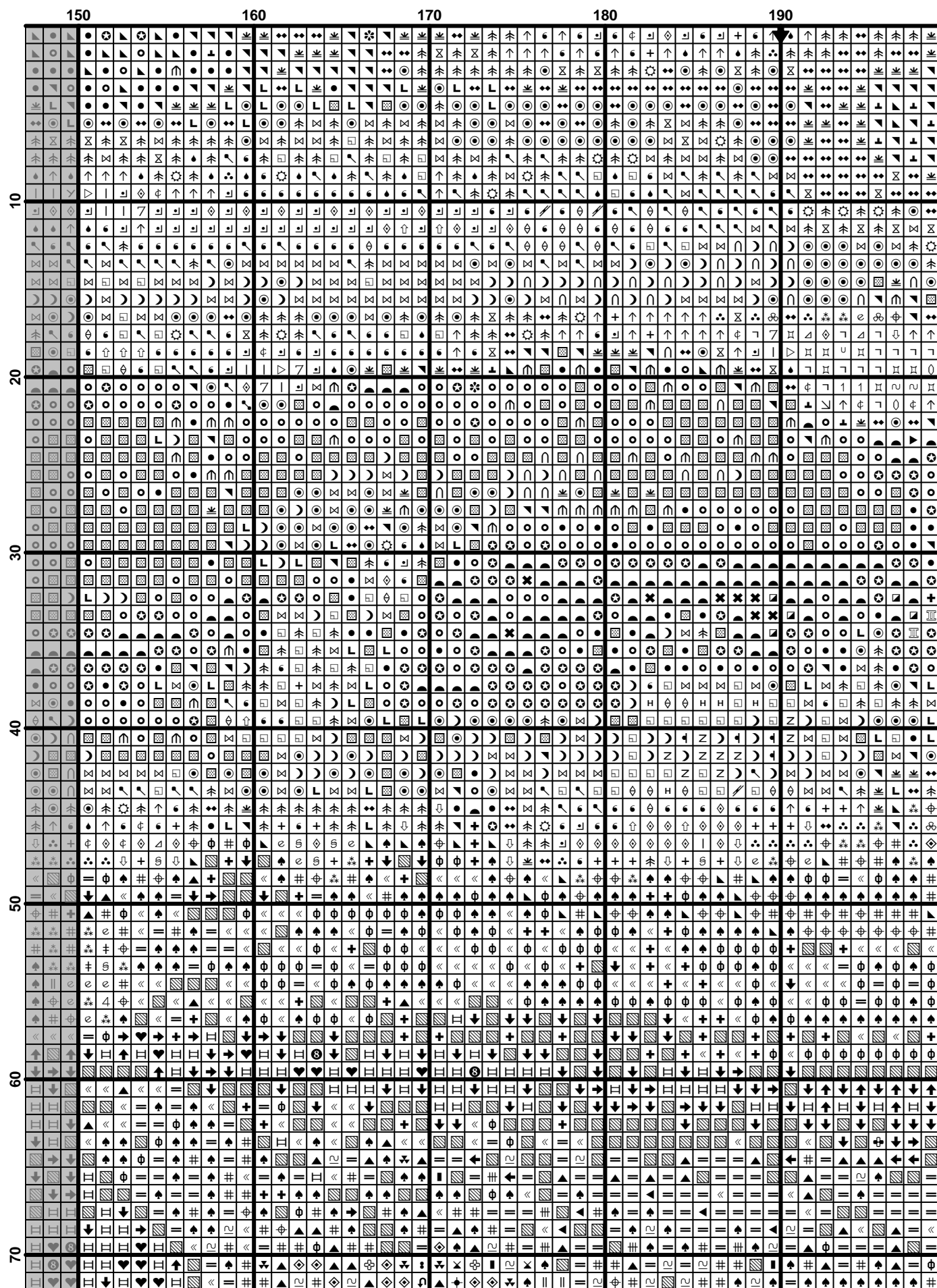
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|------|----------------------|-----|-----|-----|-----|-----|----|
| 3829 | Old Gold-VY DK       | 21  | 8   | 19  | 7   | 18  | 7  |
| 3849 | Teal Green-LT        | 280 | 110 | 261 | 103 | 245 | 96 |
| 3862 | Mocha Beige-DK       | 22  | 8   | 20  | 8   | 19  | 7  |
| 3863 | Mocha Beige-MD       | 235 | 93  | 220 | 86  | 206 | 81 |
| 3864 | Mocha Beige-LT       | 21  | 8   | 20  | 7   | 19  | 7  |
| 3865 | Winter White         | 203 | 80  | 190 | 74  | 178 | 70 |
| 3866 | Mocha Brown-UL VY LT | 224 | 88  | 209 | 82  | 196 | 77 |
| ecru | Ecru                 | 154 | 60  | 143 | 56  | 134 | 53 |



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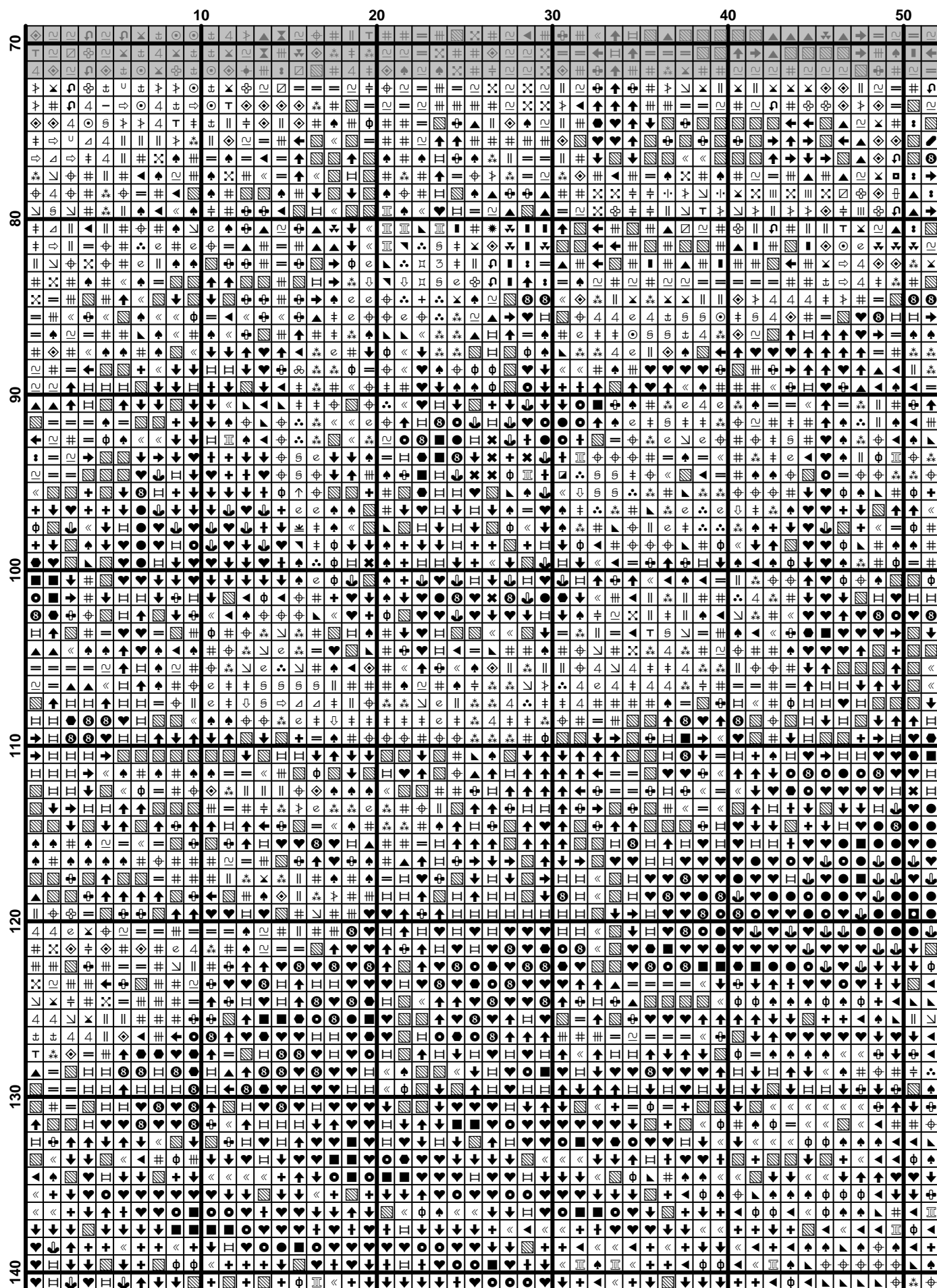
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| 80  | 12 | 12 | 12 | 12 | 12 | 12  |
| 90  | 12 | 12 | 12 | 12 | 12 | 12  |
| 100 | 12 | 12 | 12 | 12 | 12 | 12  |
| 110 | 12 | 12 | 12 | 12 | 12 | 12  |
| 120 | 12 | 12 | 12 | 12 | 12 | 12  |
| 130 | 12 | 12 | 12 | 12 | 12 | 12  |
| 140 | 12 | 12 | 12 | 12 | 12 | 12  |

|     | 100 | 110 | 120 | 130 | 140 | 150 |
|-----|-----|-----|-----|-----|-----|-----|
| 70  |     |     |     |     |     |     |
| 80  |     |     |     |     |     |     |
| 90  |     |     |     |     |     |     |
| 100 |     |     |     |     |     |     |
| 110 |     |     |     |     |     |     |
| 120 |     |     |     |     |     |     |
| 130 |     |     |     |     |     |     |
| 140 |     |     |     |     |     |     |

(21)



|     | 200 | 210 | 220 | 230 | 240 |
|-----|-----|-----|-----|-----|-----|
| 70  |     |     |     |     |     |
| 80  |     |     |     |     |     |
| 90  |     |     |     |     |     |
| 100 |     |     |     |     |     |
| 110 |     |     |     |     |     |
| 120 |     |     |     |     |     |
| 130 |     |     |     |     |     |
| 140 |     |     |     |     |     |

|     | 250 | 260 | 270 | 280 | 290 |
|-----|-----|-----|-----|-----|-----|
| 70  |     |     |     |     |     |
| 80  |     |     |     |     |     |
| 90  |     |     |     |     |     |
| 100 |     |     |     |     |     |
| 110 |     |     |     |     |     |
| 120 |     |     |     |     |     |
| 130 |     |     |     |     |     |
| 140 |     |     |     |     |     |

|     | 300 | 310 | 320 | 330 | 340 |
|-----|-----|-----|-----|-----|-----|
| 70  |     |     |     |     |     |
| 80  |     |     |     |     |     |
| 90  |     |     |     |     |     |
| 100 |     |     |     |     |     |
| 110 |     |     |     |     |     |
| 120 |     |     |     |     |     |
| 130 |     |     |     |     |     |
| 140 |     |     |     |     |     |

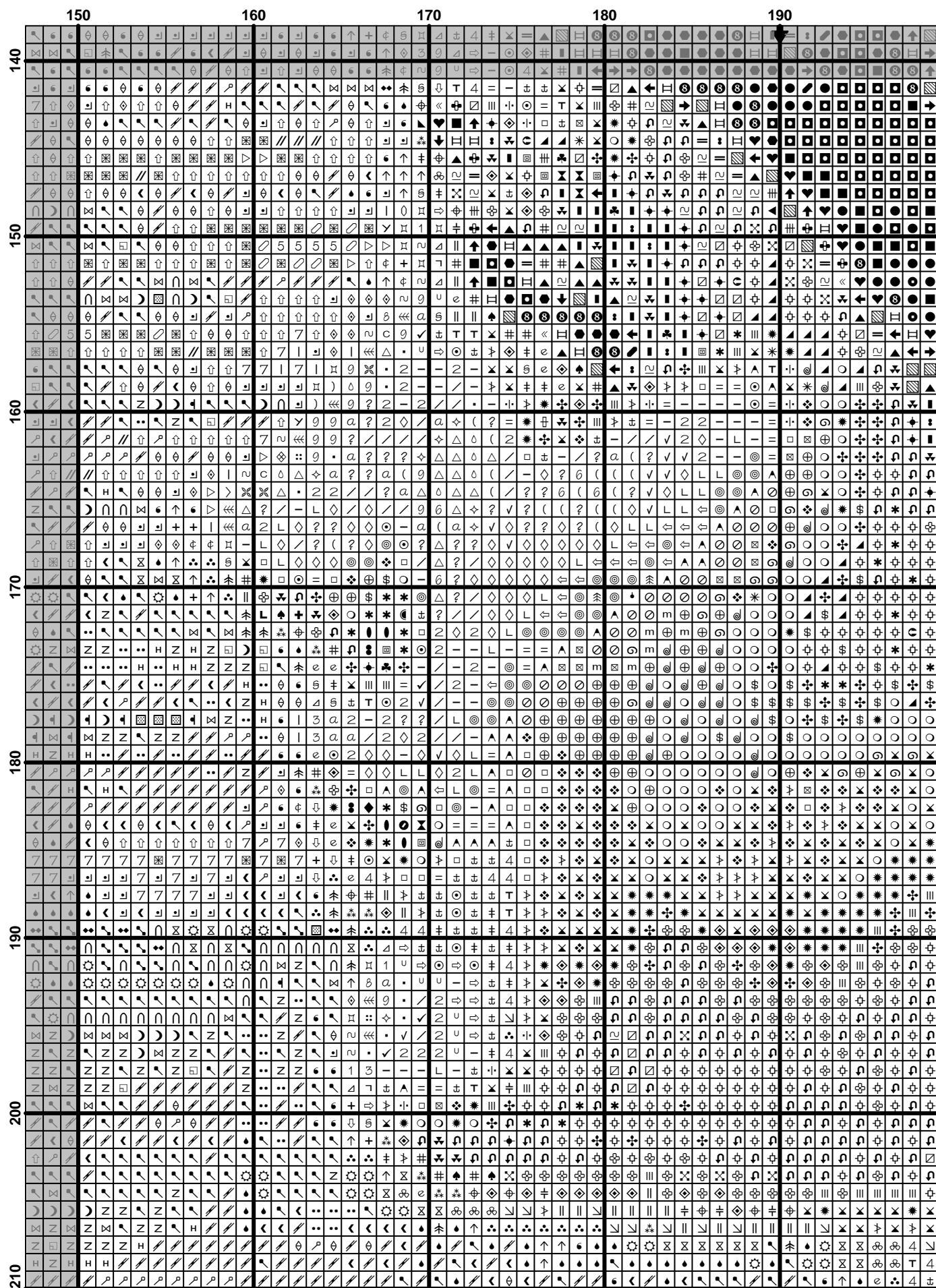
|     | 350 | 360 | 370 | 380 |
|-----|-----|-----|-----|-----|
| 70  |     |     |     |     |
| 80  |     |     |     |     |
| 90  |     |     |     |     |
| 100 |     |     |     |     |
| 110 |     |     |     |     |
| 120 |     |     |     |     |
| 130 |     |     |     |     |
| 140 |     |     |     |     |

(26)

|     | 50 | 60 | 70 | 80 | 90 | 100 |
|-----|----|----|----|----|----|-----|
| 140 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  | ⬆   |
| 150 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  | ⬆   |
| 160 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  | ⬆   |
| 170 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  | ⬆   |
| 180 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  | ⬆   |
| 190 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  | ⬆   |
| 200 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  | ⬆   |
| 210 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  | ⬆   |



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



|     | 200 | 210 | 220 | 230 | 240 |
|-----|-----|-----|-----|-----|-----|
| 140 |     |     |     |     |     |
| 150 |     |     |     |     |     |
| 160 |     |     |     |     |     |
| 170 |     |     |     |     |     |
| 180 |     |     |     |     |     |
| 190 |     |     |     |     |     |
| 200 |     |     |     |     |     |
| 210 |     |     |     |     |     |

|     | 250 | 260 | 270 | 280 | 290 |
|-----|-----|-----|-----|-----|-----|
| 140 |     |     |     |     |     |
| 150 |     |     |     |     |     |
| 160 |     |     |     |     |     |
| 170 |     |     |     |     |     |
| 180 |     |     |     |     |     |
| 190 |     |     |     |     |     |
| 200 |     |     |     |     |     |
| 210 |     |     |     |     |     |

|     | 300 | 310 | 320 | 330 | 340 |
|-----|-----|-----|-----|-----|-----|
| 140 |     |     |     |     |     |
| 150 |     |     |     |     |     |
| 160 |     |     |     |     |     |
| 170 |     |     |     |     |     |
| 180 |     |     |     |     |     |
| 190 |     |     |     |     |     |
| 200 |     |     |     |     |     |
| 210 |     |     |     |     |     |

|     | 350 |  |  |  |  |  |  |  |  |  | 360 |  |  |  |  |  |  |  |  |  | 370 |  |  |  |  |  |  |  |  |  | 380 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 140 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

$$(33) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (34)$$

(35)



|     | 100 | 110 | 120 | 130 | 140 | 150 |
|-----|-----|-----|-----|-----|-----|-----|
| 210 | ... | ... | ... | ... | ... | ... |
| 220 | ... | ... | ... | ... | ... | ... |
| 230 | ... | ... | ... | ... | ... | ... |
| 240 | ... | ... | ... | ... | ... | ... |
| 250 | ... | ... | ... | ... | ... | ... |
| 260 | ... | ... | ... | ... | ... | ... |
| 270 | ... | ... | ... | ... | ... | ... |

|     | 150       | 160 | 170 | 180 | 190 |
|-----|-----------|-----|-----|-----|-----|
| 210 | Z Z Z Z H |     |     |     |     |
| 220 |           |     |     |     |     |
| 230 |           |     |     |     |     |
| 240 |           |     |     |     |     |
| 250 |           |     |     |     |     |
| 260 |           |     |     |     |     |
| 270 |           |     |     |     |     |

$$(37) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (38)$$

(39)

$$(39) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

(40)

(42)

|     | 50  | 60  | 70  | 80  | 90  | 100 |
|-----|-----|-----|-----|-----|-----|-----|
| 280 | ... | ... | ... | ... | ... | ... |
| 290 | ... | ... | ... | ... | ... | ... |
| 300 | ... | ... | ... | ... | ... | ... |
| 310 | ... | ... | ... | ... | ... | ... |
| 320 | ... | ... | ... | ... | ... | ... |
| 330 | ... | ... | ... | ... | ... | ... |
| 340 | ... | ... | ... | ... | ... | ... |



(44)

$$(44) \quad \text{[...]} \quad (45)$$

[illegible]

|     | 250 | 260 | 270 | 280 | 290 |
|-----|-----|-----|-----|-----|-----|
| 280 | ... | ... | ... | ... | ... |
| 290 | ... | ... | ... | ... | ... |
| 300 | ... | ... | ... | ... | ... |
| 310 | ... | ... | ... | ... | ... |
| 320 | ... | ... | ... | ... | ... |
| 330 | ... | ... | ... | ... | ... |
| 340 | ... | ... | ... | ... | ... |

$$(47) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

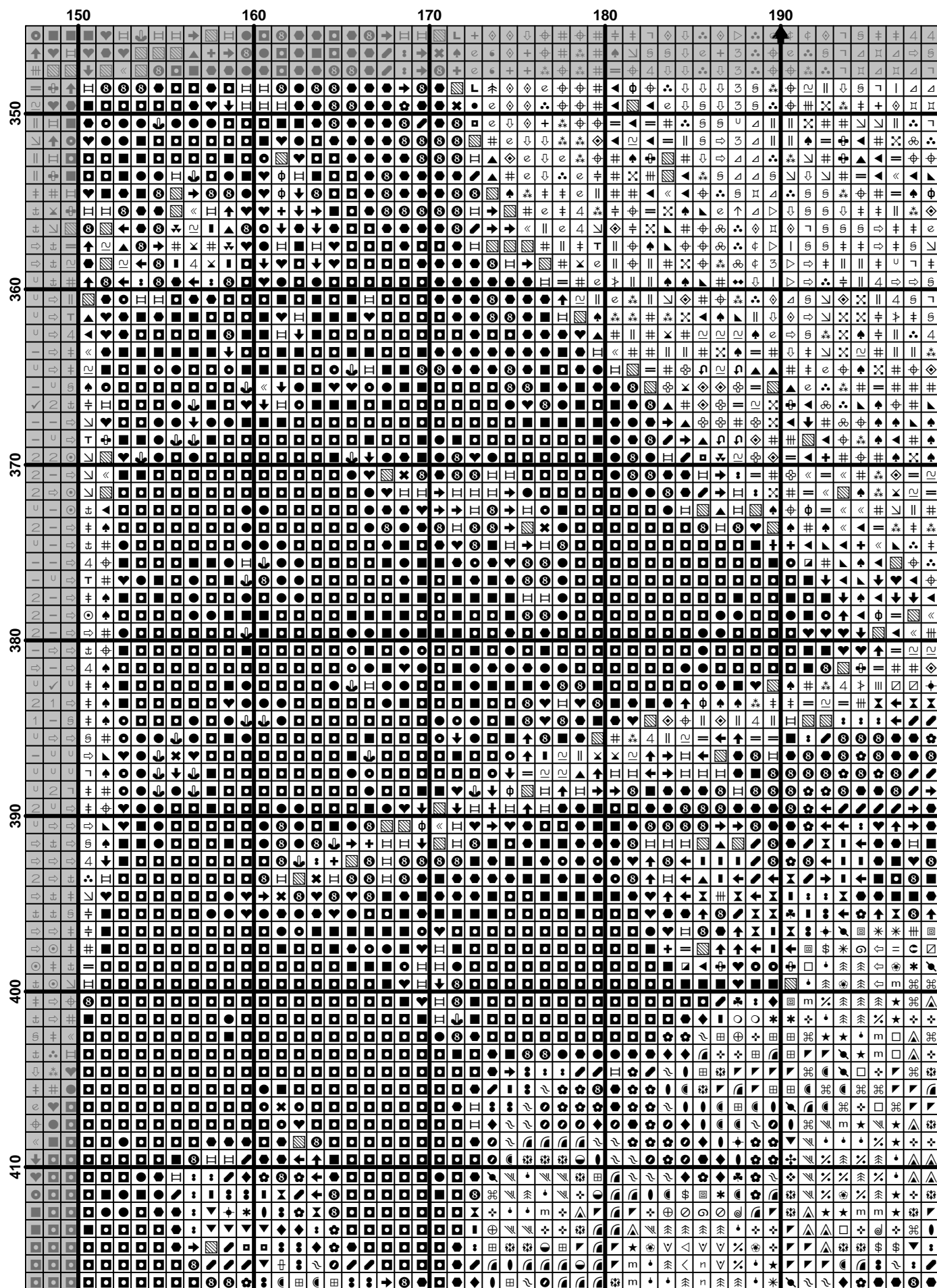
(48)

|     | 10 | 20 | 30 | 40 | 50 |
|-----|----|----|----|----|----|
| 350 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  |
| 360 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  |
| 370 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  |
| 380 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  |
| 390 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  |
| 400 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  |
| 410 | ⬆  | ⬆  | ⬆  | ⬆  | ⬆  |

|     | 50 | 60 | 70 | 80 | 90 | 100 |
|-----|----|----|----|----|----|-----|
| 350 | 12 | 12 | 12 | 12 | 12 | 12  |
| 360 | 12 | 12 | 12 | 12 | 12 | 12  |
| 370 | 12 | 12 | 12 | 12 | 12 | 12  |
| 380 | 12 | 12 | 12 | 12 | 12 | 12  |
| 390 | 12 | 12 | 12 | 12 | 12 | 12  |
| 400 | 12 | 12 | 12 | 12 | 12 | 12  |
| 410 | 12 | 12 | 12 | 12 | 12 | 12  |



(52)



[illegible]

|     | 250 | 260 | 270 | 280 | 290 |
|-----|-----|-----|-----|-----|-----|
| 350 | ... | ... | ... | ... | ... |
| 360 | ... | ... | ... | ... | ... |
| 370 | ... | ... | ... | ... | ... |
| 380 | ... | ... | ... | ... | ... |
| 390 | ... | ... | ... | ... | ... |
| 400 | ... | ... | ... | ... | ... |
| 410 | ... | ... | ... | ... | ... |

$$(55) \quad \text{[...]} \quad (56)$$

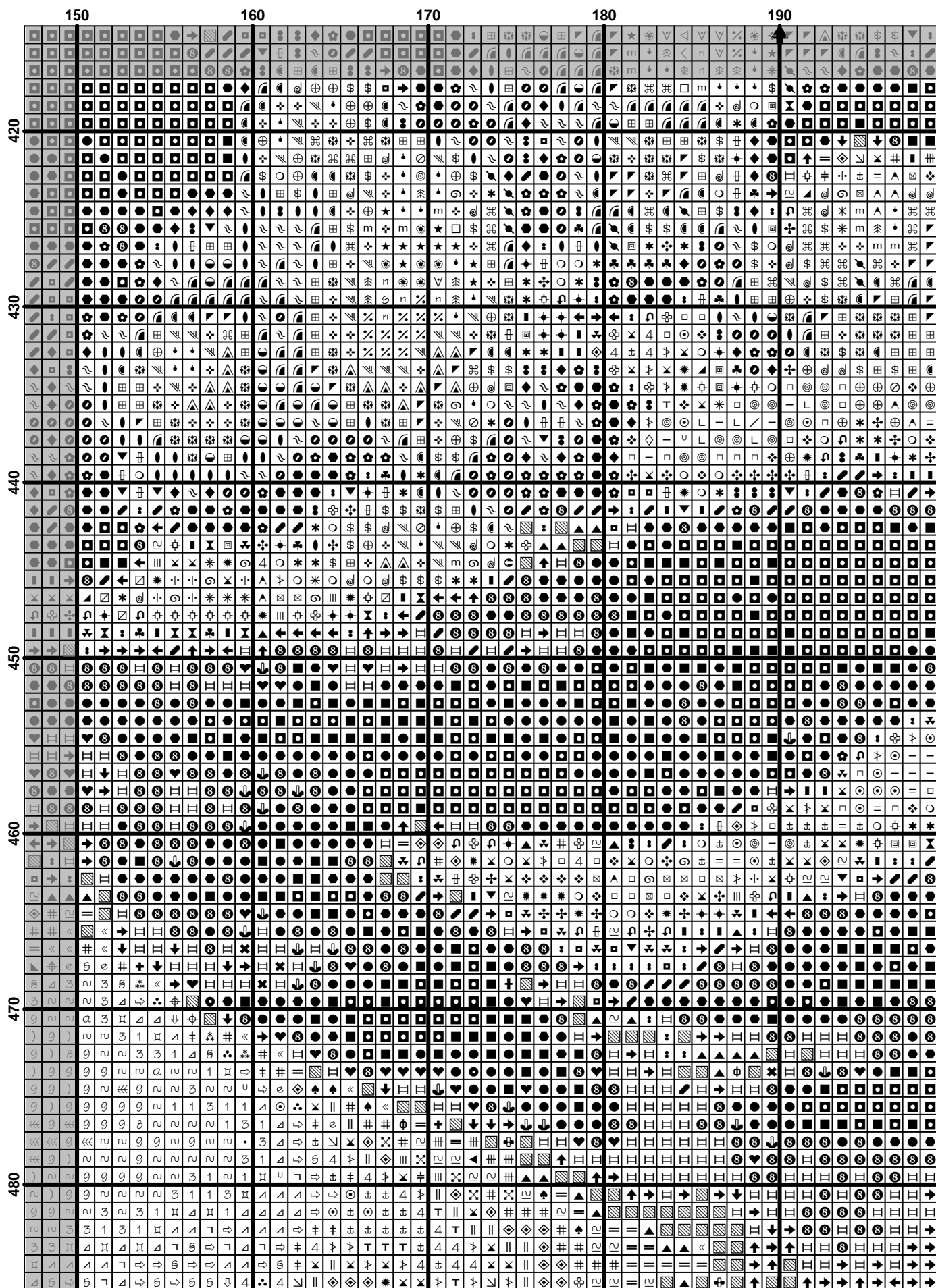
(56)

|     | 10 | 20 | 30 | 40 | 50 |
|-----|----|----|----|----|----|
| 420 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 421 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 422 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 423 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 424 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 425 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 426 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 427 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 428 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 429 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 430 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 431 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 432 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 433 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 434 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 435 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 436 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 437 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 438 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 439 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 440 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 441 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 442 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 443 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 444 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 445 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 446 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 447 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 448 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 449 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 450 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 451 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 452 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 453 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 454 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 455 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 456 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 457 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 458 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 459 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 460 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 461 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 462 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 463 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 464 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 465 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 466 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 467 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 468 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 469 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 470 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 471 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 472 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 473 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 474 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 475 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 476 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 477 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 478 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 479 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 480 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 481 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 482 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 483 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 484 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 485 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 486 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 487 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 488 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 489 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 490 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 491 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 492 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 493 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 494 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 495 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 496 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 497 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 498 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 499 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |
| 500 | ⊗  | ⊗  | ⊗  | ⊗  | ⊗  |

|     | 50  | 60  | 70  | 80  | 90  | 100 |
|-----|-----|-----|-----|-----|-----|-----|
| 420 | ... | ... | ... | ... | ... | ... |
| 430 | ... | ... | ... | ... | ... | ... |
| 440 | ... | ... | ... | ... | ... | ... |
| 450 | ... | ... | ... | ... | ... | ... |
| 460 | ... | ... | ... | ... | ... | ... |
| 470 | ... | ... | ... | ... | ... | ... |
| 480 | ... | ... | ... | ... | ... | ... |



$$(59) \quad \text{[...]} \quad (60)$$



|     | 200 | 210 | 220 | 230 | 240 |
|-----|-----|-----|-----|-----|-----|
| 420 |     |     |     |     |     |
| 430 |     |     |     |     |     |
| 440 |     |     |     |     |     |
| 450 |     |     |     |     |     |
| 460 |     |     |     |     |     |
| 470 |     |     |     |     |     |
| 480 |     |     |     |     |     |

|     | 250 | 260 | 270 | 280 | 290 |
|-----|-----|-----|-----|-----|-----|
| 420 | ... | ... | ... | ... | ... |
| 430 | ... | ... | ... | ... | ... |
| 440 | ... | ... | ... | ... | ... |
| 450 | ... | ... | ... | ... | ... |
| 460 | ... | ... | ... | ... | ... |
| 470 | ... | ... | ... | ... | ... |
| 480 | ... | ... | ... | ... | ... |

|     | 300 | 310 | 320 | 330 | 340 |
|-----|-----|-----|-----|-----|-----|
| 420 | ⬆   | ⬆   | ⬆   | ⬆   | ⬆   |
| 430 | ⬆   | ⬆   | ⬆   | ⬆   | ⬆   |
| 440 | ⬆   | ⬆   | ⬆   | ⬆   | ⬆   |
| 450 | ⬆   | ⬆   | ⬆   | ⬆   | ⬆   |
| 460 | ⬆   | ⬆   | ⬆   | ⬆   | ⬆   |
| 470 | ⬆   | ⬆   | ⬆   | ⬆   | ⬆   |
| 480 | ⬆   | ⬆   | ⬆   | ⬆   | ⬆   |

|     | 350 | 360 | 370 | 380 |
|-----|-----|-----|-----|-----|
| 420 |     |     |     |     |
| 430 |     |     |     |     |
| 440 |     |     |     |     |
| 450 |     |     |     |     |
| 460 |     |     |     |     |
| 470 |     |     |     |     |
| 480 |     |     |     |     |



|     | 50 | 60 | 70 | 80 | 90 | 100 |
|-----|----|----|----|----|----|-----|
| 490 | 5  | 1  | 1  | 1  | 1  | 1   |
| 500 | 5  | 1  | 1  | 1  | 1  | 1   |
| 510 | 5  | 1  | 1  | 1  | 1  | 1   |
| 520 | 5  | 1  | 1  | 1  | 1  | 1   |



[illegible]

[illegible]

[illegible]

|     | 250  |      |      |      |      |      |      |      |      |      | 260  |      |      |      |      |      |      |      |      |      | 270  |      |      |      |      |      |      |      |      |      | 280  |      |      |      |      |      |      |      |      |      | 290  |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 490 | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 32   | 33   | 34   | 35   | 36   | 37   | 38   | 39   | 40   | 41   | 42   | 43   | 44   | 45   | 46   | 47   | 48   | 49   | 50   |
|     | 51   | 52   | 53   | 54   | 55   | 56   | 57   | 58   | 59   | 60   | 61   | 62   | 63   | 64   | 65   | 66   | 67   | 68   | 69   | 70   | 71   | 72   | 73   | 74   | 75   | 76   | 77   | 78   | 79   | 80   | 81   | 82   | 83   | 84   | 85   | 86   | 87   | 88   | 89   | 90   | 91   | 92   | 93   | 94   | 95   | 96   | 97   | 98   | 99   | 100  |
|     | 101  | 102  | 103  | 104  | 105  | 106  | 107  | 108  | 109  | 110  | 111  | 112  | 113  | 114  | 115  | 116  | 117  | 118  | 119  | 120  | 121  | 122  | 123  | 124  | 125  | 126  | 127  | 128  | 129  | 130  | 131  | 132  | 133  | 134  | 135  | 136  | 137  | 138  | 139  | 140  | 141  | 142  | 143  | 144  | 145  | 146  | 147  | 148  | 149  | 150  |
|     | 151  | 152  | 153  | 154  | 155  | 156  | 157  | 158  | 159  | 160  | 161  | 162  | 163  | 164  | 165  | 166  | 167  | 168  | 169  | 170  | 171  | 172  | 173  | 174  | 175  | 176  | 177  | 178  | 179  | 180  | 181  | 182  | 183  | 184  | 185  | 186  | 187  | 188  | 189  | 190  | 191  | 192  | 193  | 194  | 195  | 196  | 197  | 198  | 199  | 200  |
|     | 201  | 202  | 203  | 204  | 205  | 206  | 207  | 208  | 209  | 210  | 211  | 212  | 213  | 214  | 215  | 216  | 217  | 218  | 219  | 220  | 221  | 222  | 223  | 224  | 225  | 226  | 227  | 228  | 229  | 230  | 231  | 232  | 233  | 234  | 235  | 236  | 237  | 238  | 239  | 240  | 241  | 242  | 243  | 244  | 245  | 246  | 247  | 248  | 249  | 250  |
|     | 251  | 252  | 253  | 254  | 255  | 256  | 257  | 258  | 259  | 260  | 261  | 262  | 263  | 264  | 265  | 266  | 267  | 268  | 269  | 270  | 271  | 272  | 273  | 274  | 275  | 276  | 277  | 278  | 279  | 280  | 281  | 282  | 283  | 284  | 285  | 286  | 287  | 288  | 289  | 290  | 291  | 292  | 293  | 294  | 295  | 296  | 297  | 298  | 299  | 300  |
|     | 301  | 302  | 303  | 304  | 305  | 306  | 307  | 308  | 309  | 310  | 311  | 312  | 313  | 314  | 315  | 316  | 317  | 318  | 319  | 320  | 321  | 322  | 323  | 324  | 325  | 326  | 327  | 328  | 329  | 330  | 331  | 332  | 333  | 334  | 335  | 336  | 337  | 338  | 339  | 340  | 341  | 342  | 343  | 344  | 345  | 346  | 347  | 348  | 349  | 350  |
|     | 351  | 352  | 353  | 354  | 355  | 356  | 357  | 358  | 359  | 360  | 361  | 362  | 363  | 364  | 365  | 366  | 367  | 368  | 369  | 370  | 371  | 372  | 373  | 374  | 375  | 376  | 377  | 378  | 379  | 380  | 381  | 382  | 383  | 384  | 385  | 386  | 387  | 388  | 389  | 390  | 391  | 392  | 393  | 394  | 395  | 396  | 397  | 398  | 399  | 400  |
|     | 401  | 402  | 403  | 404  | 405  | 406  | 407  | 408  | 409  | 410  | 411  | 412  | 413  | 414  | 415  | 416  | 417  | 418  | 419  | 420  | 421  | 422  | 423  | 424  | 425  | 426  | 427  | 428  | 429  | 430  | 431  | 432  | 433  | 434  | 435  | 436  | 437  | 438  | 439  | 440  | 441  | 442  | 443  | 444  | 445  | 446  | 447  | 448  | 449  | 450  |
|     | 451  | 452  | 453  | 454  | 455  | 456  | 457  | 458  | 459  | 460  | 461  | 462  | 463  | 464  | 465  | 466  | 467  | 468  | 469  | 470  | 471  | 472  | 473  | 474  | 475  | 476  | 477  | 478  | 479  | 480  | 481  | 482  | 483  | 484  | 485  | 486  | 487  | 488  | 489  | 490  | 491  | 492  | 493  | 494  | 495  | 496  | 497  | 498  | 499  | 500  |
| 500 | 501  | 502  | 503  | 504  | 505  | 506  | 507  | 508  | 509  | 510  | 511  | 512  | 513  | 514  | 515  | 516  | 517  | 518  | 519  | 520  | 521  | 522  | 523  | 524  | 525  | 526  | 527  | 528  | 529  | 530  | 531  | 532  | 533  | 534  | 535  | 536  | 537  | 538  | 539  | 540  | 541  | 542  | 543  | 544  | 545  | 546  | 547  | 548  | 549  | 550  |
|     | 551  | 552  | 553  | 554  | 555  | 556  | 557  | 558  | 559  | 560  | 561  | 562  | 563  | 564  | 565  | 566  | 567  | 568  | 569  | 570  | 571  | 572  | 573  | 574  | 575  | 576  | 577  | 578  | 579  | 580  | 581  | 582  | 583  | 584  | 585  | 586  | 587  | 588  | 589  | 590  | 591  | 592  | 593  | 594  | 595  | 596  | 597  | 598  | 599  | 600  |
|     | 601  | 602  | 603  | 604  | 605  | 606  | 607  | 608  | 609  | 610  | 611  | 612  | 613  | 614  | 615  | 616  | 617  | 618  | 619  | 620  | 621  | 622  | 623  | 624  | 625  | 626  | 627  | 628  | 629  | 630  | 631  | 632  | 633  | 634  | 635  | 636  | 637  | 638  | 639  | 640  | 641  | 642  | 643  | 644  | 645  | 646  | 647  | 648  | 649  | 650  |
|     | 651  | 652  | 653  | 654  | 655  | 656  | 657  | 658  | 659  | 660  | 661  | 662  | 663  | 664  | 665  | 666  | 667  | 668  | 669  | 670  | 671  | 672  | 673  | 674  | 675  | 676  | 677  | 678  | 679  | 680  | 681  | 682  | 683  | 684  | 685  | 686  | 687  | 688  | 689  | 690  | 691  | 692  | 693  | 694  | 695  | 696  | 697  | 698  | 699  | 700  |
|     | 701  | 702  | 703  | 704  | 705  | 706  | 707  | 708  | 709  | 710  | 711  | 712  | 713  | 714  | 715  | 716  | 717  | 718  | 719  | 720  | 721  | 722  | 723  | 724  | 725  | 726  | 727  | 728  | 729  | 730  | 731  | 732  | 733  | 734  | 735  | 736  | 737  | 738  | 739  | 740  | 741  | 742  | 743  | 744  | 745  | 746  | 747  | 748  | 749  | 750  |
|     | 751  | 752  | 753  | 754  | 755  | 756  | 757  | 758  | 759  | 760  | 761  | 762  | 763  | 764  | 765  | 766  | 767  | 768  | 769  | 770  | 771  | 772  | 773  | 774  | 775  | 776  | 777  | 778  | 779  | 780  | 781  | 782  | 783  | 784  | 785  | 786  | 787  | 788  | 789  | 790  | 791  | 792  | 793  | 794  | 795  | 796  | 797  | 798  | 799  | 800  |
|     | 801  | 802  | 803  | 804  | 805  | 806  | 807  | 808  | 809  | 810  | 811  | 812  | 813  | 814  | 815  | 816  | 817  | 818  | 819  | 820  | 821  | 822  | 823  | 824  | 825  | 826  | 827  | 828  | 829  | 830  | 831  | 832  | 833  | 834  | 835  | 836  | 837  | 838  | 839  | 840  | 841  | 842  | 843  | 844  | 845  | 846  | 847  | 848  | 849  | 850  |
|     | 851  | 852  | 853  | 854  | 855  | 856  | 857  | 858  | 859  | 860  | 861  | 862  | 863  | 864  | 865  | 866  | 867  | 868  | 869  | 870  | 871  | 872  | 873  | 874  | 875  | 876  | 877  | 878  | 879  | 880  | 881  | 882  | 883  | 884  | 885  | 886  | 887  | 888  | 889  | 890  | 891  | 892  | 893  | 894  | 895  | 896  | 897  | 898  | 899  | 900  |
|     | 901  | 902  | 903  | 904  | 905  | 906  | 907  | 908  | 909  | 910  | 911  | 912  | 913  | 914  | 915  | 916  | 917  | 918  | 919  | 920  | 921  | 922  | 923  | 924  | 925  | 926  | 927  | 928  | 929  | 930  | 931  | 932  | 933  | 934  | 935  | 936  | 937  | 938  | 939  | 940  | 941  | 942  | 943  | 944  | 945  | 946  | 947  | 948  | 949  | 950  |
|     | 951  | 952  | 953  | 954  | 955  | 956  | 957  | 958  | 959  | 960  | 961  | 962  | 963  | 964  | 965  | 966  | 967  | 968  | 969  | 970  | 971  | 972  | 973  | 974  | 975  | 976  | 977  | 978  | 979  | 980  | 981  | 982  | 983  | 984  | 985  | 986  | 987  | 988  | 989  | 990  | 991  | 992  | 993  | 994  | 995  | 996  | 997  | 998  | 999  | 1000 |
| 510 | 1001 | 1002 | 1003 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 | 1011 | 1012 | 1013 | 1014 | 1015 | 1016 | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1034 | 1035 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 | 1043 | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 |
|     | 1051 | 1052 | 1053 | 1054 | 1055 | 1056 | 1057 | 1058 | 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1066 | 1067 | 1068 | 1069 | 1070 | 1071 | 1072 | 1073 | 1074 | 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 | 1083 | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 | 1091 | 1092 | 1093 | 1094 | 1095 | 1096 | 1097 | 1098 | 1099 | 1100 |
|     | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 | 1139 | 1140 | 1141 | 1142 | 1143 | 1144 | 1145 | 1146 | 1147 | 1148 | 1149 | 1150 |
|     | 1151 | 1152 | 1153 | 1154 | 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 | 1163 | 1164 | 1165 | 1166 | 1167 | 1168 | 1169 | 1170 | 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 | 1179 | 1180 | 1181 | 1182 | 1183 | 1184 | 1185 | 1186 | 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1195 | 1196 | 1197 | 1198 | 1199 | 1200 |
|     | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 | 1208 | 1209 | 1210 | 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 | 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 | 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 | 1250 |
|     | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 | 1259 | 1260 | 1261 | 1262 | 1263 | 1264 | 1265 | 1266 | 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 | 1283 | 1284 | 1285 | 1286 | 1287 | 1288 | 1289 | 1290 | 1291 | 1292 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 | 1299 | 1300 |
|     | 1301 | 1302 | 1303 | 1304 | 1305 | 1306 | 1307 | 1308 | 1309 | 1310 | 1311 | 1312 | 1313 | 1314 | 1315 | 1316 | 1317 | 1318 | 1319 | 1320 | 1321 | 1322 | 1323 | 1324 | 1325 | 1326 | 1327 | 1328 | 1329 | 1330 | 1331 | 1332 | 1333 | 1334 | 1335 | 1336 | 1337 | 1338 | 1339 | 1340 | 1341 | 1342 | 1343 | 1344 | 1345 | 1346 | 1347 | 1348 | 1349 | 1350 |
|     | 1351 | 1352 | 1353 | 1354 | 1355 | 1356 | 1357 | 1358 | 1359 | 1360 | 1361 | 1362 | 1363 | 1364 | 1365 | 1366 | 1367 | 1368 | 1369 | 1370 | 1371 | 1372 | 1373 | 1374 | 1375 | 1376 | 1377 | 1378 | 1379 | 1380 | 1381 | 1382 | 1383 | 1384 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 | 1391 | 1392 | 1393 | 1394 | 1395 | 1396 | 1397 | 1398 | 1399 | 1400 |
|     | 1401 | 1402 | 1403 | 1404 | 1405 | 1406 | 1407 | 1408 | 1409 | 1410 | 1411 | 1412 | 1413 | 1414 | 1415 | 1416 | 1417 | 1418 | 1419 | 1420 | 1421 | 1422 | 1423 | 1424 | 1425 | 1426 | 1427 | 1428 | 1429 | 1430 | 1431 | 1432 | 1433 | 1434 | 1435 | 1436 | 1437 | 1438 | 1439 | 1440 | 1441 | 1442 | 1443 | 1444 | 1445 | 1446 | 1447 | 1448 | 1449 | 1450 |
|     | 1451 | 1452 | 1453 | 1454 | 1455 | 1456 | 1457 | 1458 | 1459 | 1460 | 1461 | 1462 | 1463 | 1464 | 1465 | 1466 | 1467 | 1468 | 1469 | 1470 | 1471 | 1472 | 1473 | 1474 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

|     | 300 |  |  |  |  |  |  |  |  |  | 310 |  |  |  |  |  |  |  |  |  | 320 |  |  |  |  |  |  |  |  |  | 330 |  |  |  |  |  |  |  |  |  | 340 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 490 |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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