

## 1089 One of the Family



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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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## One of the Family

Stitch Count	
Horizontal:	360
Vertical:	218

Recommended Fabric Color
Antique White

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.

The sizes are given for 14, 16 and 18 stitches per inch fabrics.

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.

	14				16				18			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	66	25.71	40	15.42	58	22.5	35	13.5	51	20	31	12
Including Margins:	82	32	56	22	74	29	51	20	67	27	47	19
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	92	35.99	56	21.58	77	29.99	46	17.99	38	14.99	23	8.99
Including Margins:	108	42	72	28	93	36	62	24	54	21	39	15
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	36	14.39	22	8.63	35	13.84	21	8.3	34	13.33	20	7.99
Including Margins:	52	21	38	15	51	20	37	15	50	20	36	14
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	33	12.85	20	7.71	30	11.99	18	7.19	28	11.24	17	6.74
Including Margins:	49	19	36	14	46	18	34	14	44	18	33	13

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
m	224	Shell Pink-VY LT
▲	301	Mahogany-MD
■	310	Black
⦿	317	Pewter Gray
#	318	Steel Gray-LT
⦿	369	Pistachio Green-VY LT
◎	407	Desert Sand-DK
Φ	413	Pewter Gray-DK
⦿	415	Pearl Gray
◎	420	Hazelnut Brown-DK
..	452	Shell Gray-MD
⦿	453	Shell Gray-LT
●	500	Blue Green-VY DK
⦿	501	Blue Green-DK
⦿	503	Blue Green-MD
⦿	523	Fern Green-LT
↑	524	Fern Green-VY LT
■	535	Ash Gray-VY LT
≡	598	Turquoise-LT
≡	610	Drab Brown-DK
↖	611	Drab Brown
≡	612	Drab Brown-LT
↗	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
◀	646	Beaver Gray-DK
⦿	647	Beaver Gray-MD
—	648	Beaver Gray-LT
♡	677	Old Gold-VY LT
⦿	712	Cream
☆	738	Tan-VY LT
△	739	Tan-UL VY LT
«	746	Off White
<	747	Sky Blue-VY LT
⦿	754	Peach-LT
::	758	Terra Cotta-VY LT
○	762	Pearl Gray-VY LT
⇒	775	Baby Blue-VY LT
⦿	801	Coffee Brown-DK
+	839	Beige Brown-DK

>	844	Beaver Brown-UL DK
➔	898	Coffee Brown-VY DK
↓	924	Gray Green-VY DK
L	926	Gray Green-MD
⦿	927	Gray Green-LT
⦿	928	Gray Green-VY LT
●	930	Antique Blue-DK
●	934	Black Avocado Green
●	935	Avocado Green-DK
↑	938	Coffee Brown-UL DK
⦿	975	Golden Brown-DK
▲	3011	Khaki Green-DK
♣	3021	Brown Gray-VY DK
♠	3022	Brown Gray-MD
↓	3023	Brown Gray-LT
⦿	3024	Brown Gray-VY LT
⦿	3031	Mocha Brown-VY DK
⦿	3032	Mocha Brown-MD
➔	3052	Green Gray-MD
▲	3064	Desert Sand
○	3072	Beaver Gray-VY LT
●	3371	Black Brown
:	3713	Salmon-VY LT
7	3752	Antique Blue-VY LT
+	3753	Antique Blue-UL VY LT
(	3756	Baby Blue-UL VY LT
♠	3768	Gray Green-DK
⦿	3778	Terra Cotta-LT
⦿	3779	Terra Cotta-UL VY LT
⦿	3781	Mocha Brown-DK
⦿	3782	Mocha Brown-LT
●	3787	Brown Gray-DK
❖	3790	Beige Gray-UL DK
←	3799	Pewter Gray-VY DK
▲	3808	Turquoise-UL VY DK
6	3811	Turquoise-VY LT
I	3823	Yellow-UL Pale
T	3828	Hazelnut Brown
⦿	3857	Rosewood-DK
⦿	3862	Mocha Beige-DK
⦿	3863	Mocha Beige-MD
1	3865	Winter White
L	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
✱	934	Black Avocado Green	3799	Pewter Gray-VY DK
▀	645	Beaver Gray-VY DK	3787	Brown Gray-DK
c	738	Tan-VY LT	3782	Mocha Brown-LT
⌘	842	Beige Brown-VY LT	452	Shell Gray-MD
☛	838	Beige Brown-VY DK	839	Beige Brown-DK
⦿	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
⬇	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
⦿	640	Beige Gray-VY DK	451	Shell Gray-DK
n	819	Baby Pink-LT	3865	Winter White
^	819	Baby Pink-LT	3756	Baby Blue-UL VY LT
◊	3756	Baby Blue-UL VY LT	3865	Winter White
)	712	Cream	963	Dusty Rose-UL VY LT
☛	647	Beaver Gray-MD	3022	Brown Gray-MD
x	927	Gray Green-LT	452	Shell Gray-MD
♫	839	Beige Brown-DK	3011	Khaki Green-DK
▷	951	Tawny-LT	ecru	Ecru
⬆	543	Beige Brown-UL VY LT	772	Yellow Green-VY LT
∅	451	Shell Gray-DK	3772	Desert Sand-VY DK
✱	934	Black Avocado Green	3371	Black Brown
◆	310	Black	3799	Pewter Gray-VY DK
◉	310	Black	3031	Mocha Brown-VY DK
z	647	Beaver Gray-MD	451	Shell Gray-DK
//	646	Beaver Gray-DK	3860	Cocoa
⌈	926	Gray Green-MD	645	Beaver Gray-VY DK
⬇	3021	Brown Gray-VY DK	310	Black
☛	610	Drab Brown-DK	632	Desert Sand-UL VY DK
◉	610	Drab Brown-DK	869	Hazelnut Brown-VY DK
✱	433	Brown-MD	3781	Mocha Brown-DK
⬆	3012	Khaki Green-MD	3862	Mocha Beige-DK
▶	645	Beaver Gray-VY DK	936	Avocado Green-VY DK
+	632	Desert Sand-UL VY DK	839	Beige Brown-DK
▲	3830	Terra Cotta-MD	420	Hazelnut Brown-DK
▼	221	Shell Pink-VY DK	433	Brown-MD
✱	3830	Terra Cotta-MD	632	Desert Sand-UL VY DK
	738	Tan-VY LT	642	Beige Gray-DK
3	3046	Yellow Beige-MD	613	Drab Brown-VY LT
●	3371	Black Brown	310	Black
⊗	934	Black Avocado Green	310	Black
☛	413	Pewter Gray-DK	829	Golden Olive-VY DK
■	535	Ash Gray-VY LT	3787	Brown Gray-DK
∞	3078	Golden Yellow-VY LT	3865	Winter White
☛	829	Golden Olive-VY DK	3787	Brown Gray-DK
z	356	Terra Cotta-MD	435	Brown-VY LT
♥	938	Coffee Brown-UL DK	3371	Black Brown
✱	3371	Black Brown	3799	Pewter Gray-VY DK
■	3371	Black Brown	939	Navy Blue-VY DK
♦♦	632	Desert Sand-UL VY DK	420	Hazelnut Brown-DK
☛	413	Pewter Gray-DK	535	Ash Gray-VY LT
✱	223	Shell Pink-LT	3772	Desert Sand-VY DK
⌈	840	Beige Brown-MD	3772	Desert Sand-VY DK
v	3824	Apricot-LT	758	Terra Cotta-VY LT
x	3778	Terra Cotta-LT	356	Terra Cotta-MD
h	3864	Mocha Beige-LT	758	Terra Cotta-VY LT

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∩	746	Off White	3823	Yellow-UL Pale
•	414	Steel Gray-DK	927	Gray Green-LT
∨	648	Beaver Gray-LT	927	Gray Green-LT
⌘	414	Steel Gray-DK	452	Shell Gray-MD
⊠	778	Antique Mauve-VY LT	3024	Brown Gray-VY LT
4	543	Beige Brown-UL VY LT	3024	Brown Gray-VY LT
∕	926	Gray Green-MD	931	Antique Blue-MD
★	926	Gray Green-MD	317	Pewter Gray
⊠	931	Antique Blue-MD	3849	Teal Green-LT
⊠	648	Beaver Gray-LT	993	Aquamarine-LT
∨	3766	Peacock Blue-LT	932	Antique Blue-LT
∩	648	Beaver Gray-LT	598	Turquoise-LT
⊠	414	Steel Gray-DK	932	Antique Blue-LT
∩	612	Drab Brown-LT	372	Mustard-LT
∥	415	Pearl Gray	928	Gray Green-VY LT
∩	3024	Brown Gray-VY LT	415	Pearl Gray
✓	927	Gray Green-LT	928	Gray Green-VY LT
α	739	Tan-UL VY LT	453	Shell Gray-LT
•	3823	Yellow-UL Pale	948	Peach-VY LT
✱	3051	Green Gray-DK	3790	Beige Gray-UL DK
⊕	435	Brown-VY LT	611	Drab Brown
∕	3743	Antique Violet-VY LT	3753	Antique Blue-UL VY LT
⊠	3752	Antique Blue-VY LT	3753	Antique Blue-UL VY LT
⊠	611	Drab Brown	370	Mustard-MD
⊠	318	Steel Gray-LT	415	Pearl Gray
⊠	407	Desert Sand-DK	841	Beige Brown-LT
⊠	3859	Rosewood-LT	356	Terra Cotta-MD
∩	3770	Tawny-VY LT	746	Off White
•	738	Tan-VY LT	524	Fern Green-VY LT
✓	738	Tan-VY LT	613	Drab Brown-VY LT
9	739	Tan-UL VY LT	613	Drab Brown-VY LT
⊠	612	Drab Brown-LT	3859	Rosewood-LT
⊠	924	Gray Green--VY DK	3781	Mocha Brown-DK
⊠	823	Navy Blue-DK	3781	Mocha Brown-DK
⊠	642	Beige Gray-DK	3023	Brown Gray-LT
⊠	356	Terra Cotta-MD	3776	Mahogany-LT
5	3811	Turquoise-VY LT	3752	Antique Blue-VY LT
⊠	317	Pewter Gray	414	Steel Gray-DK
▼	793	Cornflower Blue-MD	927	Gray Green-LT
*	930	Antique Blue-DK	931	Antique Blue-MD
✕	318	Steel Gray-LT	503	Blue Green-MD
↑	415	Pearl Gray	927	Gray Green-LT
↔	3743	Antique Violet-VY LT	775	Baby Blue-VY LT
2	932	Antique Blue-LT	3752	Antique Blue-VY LT
⊠	3768	Gray Green-DK	3041	Antique Violet-MD
=	3761	Sky Blue-LT	747	Sky Blue-VY LT
✕	317	Pewter Gray	3022	Brown Gray-MD
✱	3809	Turquoise-VY DK	3041	Antique Violet-MD
◦	747	Sky Blue-VY LT	3865	Winter White
u	3865	Winter White	1	White 1
⊠	370	Mustard-MD	3012	Khaki Green-MD
▲	501	Blue Green-DK	924	Gray Green--VY DK
∕	503	Blue Green-MD	646	Beaver Gray-DK
∩	435	Brown-VY LT	758	Terra Cotta-VY LT
☞	356	Terra Cotta-MD	436	Tan
☞	370	Mustard-MD	3862	Mocha Beige-DK
⊠	3011	Khaki Green-DK	3012	Khaki Green-MD
☞	3011	Khaki Green-DK	3862	Mocha Beige-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	
1	White 1	255	100	243	95	219	86
221	Shell Pink-VY DK	7	2	7	2	6	2
223	Shell Pink-LT	5	1	4	1	4	1
224	Shell Pink-VY LT	2	1	2	1	1	1
301	Mahogany-MD	2	1	2	1	1	1
310	Black	3684	1450	3508	1381	3157	1242
317	Pewter Gray	113	44	107	42	97	38
318	Steel Gray-LT	50	19	47	18	42	16
356	Terra Cotta-MD	6	2	6	2	5	1
369	Pistachio Green-VY LT	6	2	6	2	5	1
370	Mustard-MD	69	27	65	25	59	23
372	Mustard-LT	18	7	17	6	15	5
407	Desert Sand-DK	30	11	28	11	25	9
413	Pewter Gray-DK	256	100	244	96	219	86
414	Steel Gray-DK	85	33	81	31	73	28
415	Pearl Gray	167	65	159	62	143	56
420	Hazelnut Brown-DK	37	14	35	13	31	12
433	Brown-MD	18	7	17	6	16	6
435	Brown-VY LT	18	7	17	6	15	5
436	Tan	1	1	1	1	0	1
451	Shell Gray-DK	159	62	152	59	137	53
452	Shell Gray-MD	176	69	168	66	151	59
453	Shell Gray-LT	98	38	93	36	84	33
500	Blue Green-VY DK	36	14	35	13	31	12
501	Blue Green-DK	89	35	85	33	76	29
503	Blue Green-MD	133	52	126	49	114	44
523	Fern Green-LT	14	5	14	5	12	4
524	Fern Green-VY LT	121	47	115	45	104	40
535	Ash Gray-VY LT	228	89	217	85	196	77
543	Beige Brown-UL VY LT	55	21	52	20	47	18
598	Turquoise-LT	37	14	36	14	32	12
610	Drab Brown-DK	147	57	140	55	126	49
611	Drab Brown	108	42	103	40	93	36
612	Drab Brown-LT	81	31	77	30	70	27
613	Drab Brown-VY LT	134	52	128	50	115	45
632	Desert Sand-UL VY DK	80	31	76	29	68	26
640	Beige Gray-VY DK	515	202	491	193	442	174
642	Beige Gray-DK	187	73	178	70	160	62
645	Beaver Gray-VY DK	793	312	756	297	680	267
646	Beaver Gray-DK	381	150	363	142	326	128
647	Beaver Gray-MD	419	164	399	157	359	141
648	Beaver Gray-LT	341	134	325	127	292	114
677	Old Gold-VY LT	29	11	28	11	25	9
712	Cream	102	40	97	38	88	34
738	Tan-VY LT	95	37	91	35	82	32
739	Tan-UL VY LT	92	36	88	34	79	31
746	Off White	113	44	108	42	97	38
747	Sky Blue-VY LT	118	46	112	44	101	39
754	Peach-LT	9	3	8	3	7	2
758	Terra Cotta-VY LT	11	4	11	4	9	3
762	Pearl Gray-VY LT	231	90	220	86	198	77
772	Yellow Green-VY LT	27	10	26	10	23	9
775	Baby Blue-VY LT	92	36	88	34	79	31
778	Antique Mauve-VY LT	6	2	5	1	5	1

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793	Cornflower Blue-MD	1	1	1	1	1	1
801	Coffee Brown-DK	33	12	31	12	28	11
819	Baby Pink-LT	60	23	57	22	51	20
823	Navy Blue-DK	107	42	102	40	92	36
829	Golden Olive-VY DK	267	105	254	100	229	90
838	Beige Brown-VY DK	89	35	85	33	76	29
839	Beige Brown-DK	283	111	270	106	243	95
840	Beige Brown-MD	14	5	13	5	12	4
841	Beige Brown-LT	21	8	20	7	18	7
842	Beige Brown-VY LT	36	14	34	13	31	12
844	Beaver Brown-UL DK	267	105	254	100	229	90
869	Hazelnut Brown-VY DK	7	2	7	2	6	2
898	Coffee Brown-VY DK	73	28	70	27	63	24
924	Gray Green--VY DK	288	113	274	107	246	96
926	Gray Green-MD	150	59	142	55	128	50
927	Gray Green-LT	396	155	377	148	339	133
928	Gray Green-VY LT	209	82	199	78	179	70
930	Antique Blue-DK	21	8	20	7	18	7
931	Antique Blue-MD	16	6	15	5	13	5
932	Antique Blue-LT	8	3	7	2	7	2
934	Black Avocado Green	526	207	501	197	451	177
935	Avocado Green-DK	65	25	62	24	55	21
936	Avocado Green-VY DK	89	35	84	33	76	29
938	Coffee Brown-UL DK	135	53	129	50	116	45
939	Navy Blue-VY DK	403	158	383	150	345	135
948	Peach-VY LT	11	4	10	3	9	3
951	Tawny-LT	20	7	19	7	17	6
963	Dusty Rose-UL VY LT	3	1	2	1	2	1
975	Golden Brown-DK	4	1	4	1	3	1
993	Aquamarine-LT	10	3	10	3	9	3
3011	Khaki Green-DK	133	52	127	50	114	44
3012	Khaki Green-MD	69	27	66	25	59	23
3021	Brown Gray-VY DK	834	328	794	312	714	281
3022	Brown Gray-MD	383	150	365	143	328	129
3023	Brown Gray-LT	224	88	213	83	192	75
3024	Brown Gray-VY LT	298	117	283	111	255	100
3031	Mocha Brown-VY DK	569	224	542	213	488	192
3032	Mocha Brown-MD	180	70	171	67	154	60
3041	Antique Violet-MD	11	4	11	4	10	3
3046	Yellow Beige-MD	7	2	6	2	6	2
3051	Green Gray-DK	143	56	137	53	123	48
3052	Green Gray-MD	90	35	85	33	77	30
3064	Desert Sand	5	1	4	1	4	1
3072	Beaver Gray-VY LT	326	128	310	122	279	109
3078	Golden Yellow-VY LT	6	2	6	2	5	1
3371	Black Brown	910	358	867	341	780	307
3713	Salmon-VY LT	4	1	4	1	3	1
3743	Antique Violet-VY LT	49	19	46	18	42	16
3752	Antique Blue-VY LT	29	11	27	10	25	9
3753	Antique Blue-UL VY LT	88	34	84	33	76	29
3756	Baby Blue-UL VY LT	320	125	305	120	274	107
3761	Sky Blue-LT	1	1	1	1	1	1
3766	Peacock Blue-LT	0	1	0	1	0	1
3768	Gray Green-DK	73	28	69	27	62	24
3770	Tawny-VY LT	11	4	11	4	9	3
3772	Desert Sand-VY DK	34	13	32	12	29	11
3776	Mahogany-LT	1	1	1	1	1	1
3778	Terra Cotta-LT	7	2	7	2	6	2
3779	Terra Cotta-UL VY LT	1	1	1	1	1	1

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3781	Mocha Brown-DK	451	177	429	168	386	151
3782	Mocha Brown-LT	89	35	85	33	76	29
3787	Brown Gray-DK	646	254	616	242	554	218
3790	Beige Gray-UL DK	506	199	482	189	434	170
3799	Pewter Gray-VY DK	604	237	575	226	517	203
3808	Turquoise-UL VY DK	3	1	3	1	3	1
3809	Turquoise-VY DK	6	2	5	1	5	1
3811	Turquoise-VY LT	13	5	13	5	11	4
3823	Yellow-UL Pale	47	18	45	17	40	15
3824	Apricot-LT	0	1	0	1	0	1
3828	Hazelnut Brown	16	6	15	5	14	5
3830	Terra Cotta-MD	6	2	5	1	5	1
3849	Teal Green-LT	1	1	1	1	1	1
3857	Rosewood-DK	18	7	17	6	15	5
3859	Rosewood-LT	13	5	13	5	11	4
3860	Cocoa	39	15	37	14	33	12
3862	Mocha Beige-DK	192	75	183	72	165	64
3863	Mocha Beige-MD	75	29	72	28	65	25
3864	Mocha Beige-LT	5	1	4	1	4	1
3865	Winter White	620	244	590	232	531	209
3866	Mocha Brown-UL VY LT	156	61	149	58	134	52
ecru	Ecru	72	28	69	27	62	24

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	394	155	329	129	164	65
221	Shell Pink-VY DK	11	4	9	3	5	2
223	Shell Pink-LT	7	2	6	2	3	1
224	Shell Pink-VY LT	2	2	2	2	1	1
301	Mahogany-MD	2	2	2	2	1	1
310	Black	5683	2236	4736	1863	2368	932
317	Pewter Gray	175	68	146	57	73	29
318	Steel Gray-LT	76	29	63	24	32	12
356	Terra Cotta-MD	9	2	8	2	4	1
369	Pistachio Green-VY LT	9	2	8	2	4	1
370	Mustard-MD	106	41	89	35	44	17
372	Mustard-LT	27	9	23	8	11	4
407	Desert Sand-DK	45	16	38	14	19	7
413	Pewter Gray-DK	394	155	329	129	164	65
414	Steel Gray-DK	131	50	110	42	55	21
415	Pearl Gray	257	101	215	84	107	42
420	Hazelnut Brown-DK	56	22	47	18	23	9
433	Brown-MD	29	11	24	9	12	5
435	Brown-VY LT	27	9	23	8	11	4
436	Tan	0	2	0	2	0	1
451	Shell Gray-DK	247	95	206	80	103	40
452	Shell Gray-MD	272	106	227	89	113	44
453	Shell Gray-LT	151	59	126	50	63	25
500	Blue Green-VY DK	56	22	47	18	23	9
501	Blue Green-DK	137	52	114	44	57	22
503	Blue Green-MD	205	79	171	66	86	33
523	Fern Green-LT	22	7	18	6	9	3
524	Fern Green-VY LT	187	72	156	60	78	30
535	Ash Gray-VY LT	353	139	294	116	147	58
543	Beige Brown-UL VY LT	85	32	71	27	35	14

598	Turquoise-LT	58	22	48	18	24	9
610	Drab Brown-DK	227	88	189	74	95	37
611	Drab Brown	167	65	140	54	70	27
612	Drab Brown-LT	126	49	105	41	53	20
613	Drab Brown-VY LT	207	81	173	68	86	34
632	Desert Sand-UL VY DK	122	47	102	39	51	20
640	Beige Gray-VY DK	796	313	663	261	332	131
642	Beige Gray-DK	288	112	240	93	120	47
645	Beaver Gray-VY DK	1224	481	1020	401	510	200
646	Beaver Gray-DK	587	230	489	192	245	96
647	Beaver Gray-MD	646	254	539	212	269	106
648	Beaver Gray-LT	526	205	438	171	219	86
677	Old Gold-VY LT	45	16	38	14	19	7
712	Cream	158	61	132	51	66	26
738	Tan-VY LT	148	58	123	48	62	24
739	Tan-UL VY LT	142	56	119	47	59	23
746	Off White	175	68	146	57	73	29
747	Sky Blue-VY LT	182	70	152	59	76	29
754	Peach-LT	13	4	11	3	5	2
758	Terra Cotta-VY LT	16	5	14	5	7	2
762	Pearl Gray-VY LT	356	139	297	116	149	58
772	Yellow Green-VY LT	41	16	35	14	17	7
775	Baby Blue-VY LT	142	56	119	47	59	23
778	Antique Mauve-VY LT	9	2	8	2	4	1
793	Cornflower Blue-MD	2	2	2	2	1	1
801	Coffee Brown-DK	50	20	42	17	21	8
819	Baby Pink-LT	92	36	77	30	38	15
823	Navy Blue-DK	166	65	138	54	69	27
829	Golden Olive-VY DK	412	162	344	135	172	68
838	Beige Brown-VY DK	137	52	114	44	57	22
839	Beige Brown-DK	437	171	365	143	182	71
840	Beige Brown-MD	22	7	18	6	9	3
841	Beige Brown-LT	32	13	27	11	14	5
842	Beige Brown-VY LT	56	22	47	18	23	9
844	Beaver Brown-UL DK	412	162	344	135	172	68
869	Hazelnut Brown-VY DK	11	4	9	3	5	2
898	Coffee Brown-VY DK	113	43	95	36	47	18
924	Gray Green--VY DK	443	173	369	144	185	72
926	Gray Green-MD	230	90	192	75	96	38
927	Gray Green-LT	610	239	509	200	254	100
928	Gray Green-VY LT	322	126	269	105	134	53
930	Antique Blue-DK	32	13	27	11	14	5
931	Antique Blue-MD	23	9	20	8	10	4
932	Antique Blue-LT	13	4	11	3	5	2
934	Black Avocado Green	812	319	677	266	338	133
935	Avocado Green-DK	99	38	83	32	41	16
936	Avocado Green-VY DK	137	52	114	44	57	22
938	Coffee Brown-UL DK	209	81	174	68	87	34
939	Navy Blue-VY DK	621	243	518	203	259	101
948	Peach-VY LT	16	5	14	5	7	2
951	Tawny-LT	31	11	26	9	13	5
963	Dusty Rose-UL VY LT	4	2	3	2	2	1
975	Golden Brown-DK	5	2	5	2	2	1
993	Aquamarine-LT	16	5	14	5	7	2
3011	Khaki Green-DK	205	79	171	66	86	33
3012	Khaki Green-MD	106	41	89	35	44	17
3021	Brown Gray-VY DK	1285	506	1071	422	536	211
3022	Brown Gray-MD	590	232	492	194	246	97
3023	Brown Gray-LT	346	135	288	113	144	56

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3024	Brown Gray-VY LT	459	180	383	150	191	75
3031	Mocha Brown-VY DK	878	346	732	288	366	144
3032	Mocha Brown-MD	277	108	231	90	116	45
3041	Antique Violet-MD	18	5	15	5	8	2
3046	Yellow Beige-MD	11	4	9	3	5	2
3051	Green Gray-DK	221	86	185	72	92	36
3052	Green Gray-MD	139	54	116	45	58	23
3064	Desert Sand	7	2	6	2	3	1
3072	Beaver Gray-VY LT	502	196	419	164	209	82
3078	Golden Yellow-VY LT	9	2	8	2	4	1
3371	Black Brown	1404	553	1170	461	585	230
3713	Salmon-VY LT	5	2	5	2	2	1
3743	Antique Violet-VY LT	76	29	63	24	32	12
3752	Antique Blue-VY LT	45	16	38	14	19	7
3753	Antique Blue-UL VY LT	137	52	114	44	57	22
3756	Baby Blue-UL VY LT	493	193	411	161	206	80
3761	Sky Blue-LT	2	2	2	2	1	1
3766	Peacock Blue-LT	0	2	0	2	0	1
3768	Gray Green-DK	112	43	93	36	47	18
3770	Tawny-VY LT	16	5	14	5	7	2
3772	Desert Sand-VY DK	52	20	44	17	22	8
3776	Mahogany-LT	2	2	2	2	1	1
3778	Terra Cotta-LT	11	4	9	3	5	2
3779	Terra Cotta-UL VY LT	2	2	2	2	1	1
3781	Mocha Brown-DK	695	272	579	227	290	113
3782	Mocha Brown-LT	137	52	114	44	57	22
3787	Brown Gray-DK	997	392	831	327	416	164
3790	Beige Gray-UL DK	781	306	651	255	326	128
3799	Pewter Gray-VY DK	931	365	776	305	388	152
3808	Turquoise-UL VY DK	5	2	5	2	2	1
3809	Turquoise-VY DK	9	2	8	2	4	1
3811	Turquoise-VY LT	20	7	17	6	8	3
3823	Yellow-UL Pale	72	27	60	23	30	11
3824	Apricot-LT	0	2	0	2	0	1
3828	Hazelnut Brown	25	9	21	8	11	4
3830	Terra Cotta-MD	9	2	8	2	4	1
3849	Teal Green-LT	2	2	2	2	1	1
3857	Rosewood-DK	27	9	23	8	11	4
3859	Rosewood-LT	20	7	17	6	8	3
3860	Cocoa	59	22	50	18	25	9
3862	Mocha Beige-DK	297	115	248	96	124	48
3863	Mocha Beige-MD	117	45	98	38	49	19
3864	Mocha Beige-LT	7	2	6	2	3	1
3865	Winter White	956	376	797	314	398	157
3866	Mocha Brown-UL VY LT	241	94	201	78	101	39
ecru	Ecru	112	43	93	36	47	18

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	158	62	152	60	146	57
221	Shell Pink-VY DK	4	1	4	1	4	1
223	Shell Pink-LT	3	1	3	1	3	1
224	Shell Pink-VY LT	1	1	1	1	1	1
301	Mahogany-MD	1	1	1	1	1	1
310	Black	2273	894	2186	860	2105	828

317	Pewter Gray	70	27	67	26	65	25
318	Steel Gray-LT	30	12	29	11	28	11
356	Terra Cotta-MD	4	1	3	1	3	1
369	Pistachio Green-VY LT	4	1	3	1	3	1
370	Mustard-MD	42	17	41	16	39	15
372	Mustard-LT	11	4	10	3	10	3
407	Desert Sand-DK	18	6	17	6	17	6
413	Pewter Gray-DK	158	62	152	60	146	57
414	Steel Gray-DK	53	20	51	19	49	19
415	Pearl Gray	103	40	99	39	95	37
420	Hazelnut Brown-DK	22	9	21	8	21	8
433	Brown-MD	12	4	11	4	11	4
435	Brown-VY LT	11	4	10	3	10	3
436	Tan	0	1	0	1	0	1
451	Shell Gray-DK	99	38	95	37	91	35
452	Shell Gray-MD	109	42	105	41	101	39
453	Shell Gray-LT	60	24	58	23	56	22
500	Blue Green-VY DK	22	9	21	8	21	8
501	Blue Green-DK	55	21	53	20	51	19
503	Blue Green-MD	82	32	79	30	76	29
523	Fern Green-LT	9	3	8	3	8	3
524	Fern Green-VY LT	75	29	72	28	69	27
535	Ash Gray-VY LT	141	55	136	53	131	51
543	Beige Brown-UL VY LT	34	13	33	12	31	12
598	Turquoise-LT	23	9	22	8	21	8
610	Drab Brown-DK	91	35	87	34	84	33
611	Drab Brown	67	26	64	25	62	24
612	Drab Brown-LT	50	19	48	19	47	18
613	Drab Brown-VY LT	83	32	80	31	77	30
632	Desert Sand-UL VY DK	49	19	47	18	45	17
640	Beige Gray-VY DK	318	125	306	120	295	116
642	Beige Gray-DK	115	45	111	43	107	41
645	Beaver Gray-VY DK	490	192	471	185	453	178
646	Beaver Gray-DK	235	92	226	89	217	85
647	Beaver Gray-MD	258	102	249	98	239	94
648	Beaver Gray-LT	210	82	202	79	195	76
677	Old Gold-VY LT	18	6	17	6	17	6
712	Cream	63	24	61	24	59	23
738	Tan-VY LT	59	23	57	22	55	21
739	Tan-UL VY LT	57	22	55	21	53	21
746	Off White	70	27	67	26	65	25
747	Sky Blue-VY LT	73	28	70	27	67	26
754	Peach-LT	5	1	5	1	5	1
758	Terra Cotta-VY LT	6	2	6	2	6	2
762	Pearl Gray-VY LT	143	55	137	53	132	51
772	Yellow Green-VY LT	17	6	16	6	15	6
775	Baby Blue-VY LT	57	22	55	21	53	21
778	Antique Mauve-VY LT	4	1	3	1	3	1
793	Cornflower Blue-MD	1	1	1	1	1	1
801	Coffee Brown-DK	20	8	19	8	19	7
819	Baby Pink-LT	37	14	35	14	34	13
823	Navy Blue-DK	66	26	64	25	61	24
829	Golden Olive-VY DK	165	65	159	62	153	60
838	Beige Brown-VY DK	55	21	53	20	51	19
839	Beige Brown-DK	175	68	168	66	162	63
840	Beige Brown-MD	9	3	8	3	8	3
841	Beige Brown-LT	13	5	12	5	12	5
842	Beige Brown-VY LT	22	9	21	8	21	8
844	Beaver Brown-UL DK	165	65	159	62	153	60

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869	Hazelnut Brown-VY DK	4	1	4	1	4	1
898	Coffee Brown-VY DK	45	17	44	17	42	16
924	Gray Green--VY DK	177	69	170	66	164	64
926	Gray Green-MD	92	36	89	35	85	33
927	Gray Green-LT	244	96	235	92	226	89
928	Gray Green-VY LT	129	50	124	48	119	47
930	Antique Blue-DK	13	5	12	5	12	5
931	Antique Blue-MD	9	4	9	3	9	3
932	Antique Blue-LT	5	1	5	1	5	1
934	Black Avocado Green	325	127	312	123	301	118
935	Avocado Green-DK	40	15	38	15	37	14
936	Avocado Green-VY DK	55	21	53	20	51	19
938	Coffee Brown-UL DK	84	32	80	31	77	30
939	Navy Blue-VY DK	248	97	239	93	230	90
948	Peach-VY LT	6	2	6	2	6	2
951	Tawny-LT	12	4	12	4	11	4
963	Dusty Rose-UL VY LT	1	1	1	1	1	1
975	Golden Brown-DK	2	1	2	1	2	1
993	Aquamarine-LT	6	2	6	2	6	2
3011	Khaki Green-DK	82	32	79	30	76	29
3012	Khaki Green-MD	42	17	41	16	39	15
3021	Brown Gray-VY DK	514	202	494	195	476	187
3022	Brown Gray-MD	236	93	227	89	219	86
3023	Brown Gray-LT	138	54	133	52	128	50
3024	Brown Gray-VY LT	184	72	177	69	170	67
3031	Mocha Brown-VY DK	351	138	338	133	325	128
3032	Mocha Brown-MD	111	43	107	42	103	40
3041	Antique Violet-MD	7	2	7	2	7	2
3046	Yellow Beige-MD	4	1	4	1	4	1
3051	Green Gray-DK	89	35	85	33	82	32
3052	Green Gray-MD	55	22	53	21	51	20
3064	Desert Sand	3	1	3	1	3	1
3072	Beaver Gray-VY LT	201	78	193	75	186	73
3078	Golden Yellow-VY LT	4	1	3	1	3	1
3371	Black Brown	562	221	540	213	520	205
3713	Salmon-VY LT	2	1	2	1	2	1
3743	Antique Violet-VY LT	30	12	29	11	28	11
3752	Antique Blue-VY LT	18	6	17	6	17	6
3753	Antique Blue-UL VY LT	55	21	53	20	51	19
3756	Baby Blue-UL VY LT	197	77	190	74	183	71
3761	Sky Blue-LT	1	1	1	1	1	1
3766	Peacock Blue-LT	0	1	0	1	0	1
3768	Gray Green-DK	45	17	43	17	41	16
3770	Tawny-VY LT	6	2	6	2	6	2
3772	Desert Sand-VY DK	21	8	20	8	19	7
3776	Mahogany-LT	1	1	1	1	1	1
3778	Terra Cotta-LT	4	1	4	1	4	1
3779	Terra Cotta-UL VY LT	1	1	1	1	1	1
3781	Mocha Brown-DK	278	109	267	105	257	101
3782	Mocha Brown-LT	55	21	53	20	51	19
3787	Brown Gray-DK	399	157	384	151	369	145
3790	Beige Gray-UL DK	312	122	300	118	289	113
3799	Pewter Gray-VY DK	372	146	358	141	345	135
3808	Turquoise-UL VY DK	2	1	2	1	2	1
3809	Turquoise-VY DK	4	1	3	1	3	1
3811	Turquoise-VY LT	8	3	8	3	7	3
3823	Yellow-UL Pale	29	11	28	10	27	10
3824	Apricot-LT	0	1	0	1	0	1
3828	Hazelnut Brown	10	4	10	3	9	3

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3830	Terra Cotta-MD	4	1	3	1	3	1
3849	Teal Green-LT	1	1	1	1	1	1
3857	Rosewood-DK	11	4	10	3	10	3
3859	Rosewood-LT	8	3	8	3	7	3
3860	Cocoa	24	9	23	8	22	8
3862	Mocha Beige-DK	119	46	114	44	110	43
3863	Mocha Beige-MD	47	18	45	17	43	17
3864	Mocha Beige-LT	3	1	3	1	3	1
3865	Winter White	382	150	368	145	354	139
3866	Mocha Brown-UL VY LT	96	37	93	36	89	35
ecru	Ecru	45	17	43	17	41	16

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	141	55	131	52	123	48
221	Shell Pink-VY DK	4	1	4	1	3	1
223	Shell Pink-LT	3	1	2	1	2	1
224	Shell Pink-VY LT	1	1	1	1	1	1
301	Mahogany-MD	1	1	1	1	1	1
310	Black	2030	798	1894	745	1776	699
317	Pewter Gray	62	24	58	23	55	21
318	Steel Gray-LT	27	10	25	10	24	9
356	Terra Cotta-MD	3	1	3	1	3	1
369	Pistachio Green-VY LT	3	1	3	1	3	1
370	Mustard-MD	38	15	35	14	33	13
372	Mustard-LT	10	3	9	3	8	3
407	Desert Sand-DK	16	6	15	5	14	5
413	Pewter Gray-DK	141	55	131	52	123	48
414	Steel Gray-DK	47	18	44	17	41	16
415	Pearl Gray	92	36	86	34	80	32
420	Hazelnut Brown-DK	20	8	19	7	17	7
433	Brown-MD	10	4	10	4	9	3
435	Brown-VY LT	10	3	9	3	8	3
436	Tan	0	1	0	1	0	1
451	Shell Gray-DK	88	34	82	32	77	30
452	Shell Gray-MD	97	38	91	35	85	33
453	Shell Gray-LT	54	21	50	20	47	19
500	Blue Green-VY DK	20	8	19	7	17	7
501	Blue Green-DK	49	19	46	17	43	16
503	Blue Green-MD	73	28	68	26	64	25
523	Fern Green-LT	8	3	7	2	7	2
524	Fern Green-VY LT	67	26	62	24	59	23
535	Ash Gray-VY LT	126	50	118	46	110	43
543	Beige Brown-UL VY LT	30	12	28	11	26	10
598	Turquoise-LT	21	8	19	7	18	7
610	Drab Brown-DK	81	32	76	29	71	28
611	Drab Brown	60	23	56	22	52	20
612	Drab Brown-LT	45	17	42	16	39	15
613	Drab Brown-VY LT	74	29	69	27	65	25
632	Desert Sand-UL VY DK	44	17	41	16	38	15
640	Beige Gray-VY DK	284	112	265	104	249	98
642	Beige Gray-DK	103	40	96	37	90	35
645	Beaver Gray-VY DK	437	172	408	160	383	150
646	Beaver Gray-DK	210	82	196	77	183	72
647	Beaver Gray-MD	231	91	215	85	202	79
648	Beaver Gray-LT	188	73	175	68	164	64

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677	Old Gold-VY LT	16	6	15	5	14	5
712	Cream	57	22	53	20	50	19
738	Tan-VY LT	53	21	49	19	46	18
739	Tan-UL VY LT	51	20	47	19	44	17
746	Off White	62	24	58	23	55	21
747	Sky Blue-VY LT	65	25	61	23	57	22
754	Peach-LT	5	1	4	1	4	1
758	Terra Cotta-VY LT	6	2	5	2	5	2
762	Pearl Gray-VY LT	127	50	119	46	111	43
772	Yellow Green-VY LT	15	6	14	5	13	5
775	Baby Blue-VY LT	51	20	47	19	44	17
778	Antique Mauve-VY LT	3	1	3	1	3	1
793	Cornflower Blue-MD	1	1	1	1	1	1
801	Coffee Brown-DK	18	7	17	7	16	6
819	Baby Pink-LT	33	13	31	12	29	11
823	Navy Blue-DK	59	23	55	22	52	20
829	Golden Olive-VY DK	147	58	137	54	129	51
838	Beige Brown-VY DK	49	19	46	17	43	16
839	Beige Brown-DK	156	61	146	57	137	53
840	Beige Brown-MD	8	3	7	2	7	2
841	Beige Brown-LT	12	5	11	4	10	4
842	Beige Brown-VY LT	20	8	19	7	17	7
844	Beaver Brown-UL DK	147	58	137	54	129	51
869	Hazelnut Brown-VY DK	4	1	4	1	3	1
898	Coffee Brown-VY DK	41	15	38	14	35	14
924	Gray Green--VY DK	158	62	148	58	138	54
926	Gray Green-MD	82	32	77	30	72	28
927	Gray Green-LT	218	86	203	80	191	75
928	Gray Green-VY LT	115	45	107	42	101	39
930	Antique Blue-DK	12	5	11	4	10	4
931	Antique Blue-MD	8	3	8	3	7	3
932	Antique Blue-LT	5	1	4	1	4	1
934	Black Avocado Green	290	114	271	106	254	100
935	Avocado Green-DK	35	14	33	13	31	12
936	Avocado Green-VY DK	49	19	46	17	43	16
938	Coffee Brown-UL DK	75	29	70	27	65	25
939	Navy Blue-VY DK	222	87	207	81	194	76
948	Peach-VY LT	6	2	5	2	5	2
951	Tawny-LT	11	4	10	4	10	3
963	Dusty Rose-UL VY LT	1	1	1	1	1	1
975	Golden Brown-DK	2	1	2	1	2	1
993	Aquamarine-LT	6	2	5	2	5	2
3011	Khaki Green-DK	73	28	68	26	64	25
3012	Khaki Green-MD	38	15	35	14	33	13
3021	Brown Gray-VY DK	459	181	428	169	402	158
3022	Brown Gray-MD	211	83	197	77	185	73
3023	Brown Gray-LT	123	48	115	45	108	42
3024	Brown Gray-VY LT	164	64	153	60	143	56
3031	Mocha Brown-VY DK	314	123	293	115	275	108
3032	Mocha Brown-MD	99	39	92	36	87	34
3041	Antique Violet-MD	6	2	6	2	6	2
3046	Yellow Beige-MD	4	1	4	1	3	1
3051	Green Gray-DK	79	31	74	29	69	27
3052	Green Gray-MD	50	19	46	18	43	17
3064	Desert Sand	3	1	2	1	2	1
3072	Beaver Gray-VY LT	179	70	167	65	157	61
3078	Golden Yellow-VY LT	3	1	3	1	3	1
3371	Black Brown	501	197	468	184	439	173
3713	Salmon-VY LT	2	1	2	1	2	1

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3743	Antique Violet-VY LT	27	10	25	10	24	9
3752	Antique Blue-VY LT	16	6	15	5	14	5
3753	Antique Blue-UL VY LT	49	19	46	17	43	16
3756	Baby Blue-UL VY LT	176	69	164	64	154	60
3761	Sky Blue-LT	1	1	1	1	1	1
3766	Peacock Blue-LT	0	1	0	1	0	1
3768	Gray Green-DK	40	15	37	14	35	14
3770	Tawny-VY LT	6	2	5	2	5	2
3772	Desert Sand-VY DK	19	7	17	7	16	6
3776	Mahogany-LT	1	1	1	1	1	1
3778	Terra Cotta-LT	4	1	4	1	3	1
3779	Terra Cotta-UL VY LT	1	1	1	1	1	1
3781	Mocha Brown-DK	248	97	232	91	217	85
3782	Mocha Brown-LT	49	19	46	17	43	16
3787	Brown Gray-DK	356	140	332	131	312	123
3790	Beige Gray-UL DK	279	109	260	102	244	96
3799	Pewter Gray-VY DK	332	131	310	122	291	114
3808	Turquoise-UL VY DK	2	1	2	1	2	1
3809	Turquoise-VY DK	3	1	3	1	3	1
3811	Turquoise-VY LT	7	3	7	2	6	2
3823	Yellow-UL Pale	26	10	24	9	23	8
3824	Apricot-LT	0	1	0	1	0	1
3828	Hazelnut Brown	9	3	8	3	8	3
3830	Terra Cotta-MD	3	1	3	1	3	1
3849	Teal Green-LT	1	1	1	1	1	1
3857	Rosewood-DK	10	3	9	3	8	3
3859	Rosewood-LT	7	3	7	2	6	2
3860	Cocoa	21	8	20	7	19	7
3862	Mocha Beige-DK	106	41	99	38	93	36
3863	Mocha Beige-MD	42	16	39	15	37	14
3864	Mocha Beige-LT	3	1	2	1	2	1
3865	Winter White	341	134	319	125	299	118
3866	Mocha Brown-UL VY LT	86	33	80	31	75	29
ecru	Ecru	40	15	37	14	35	14

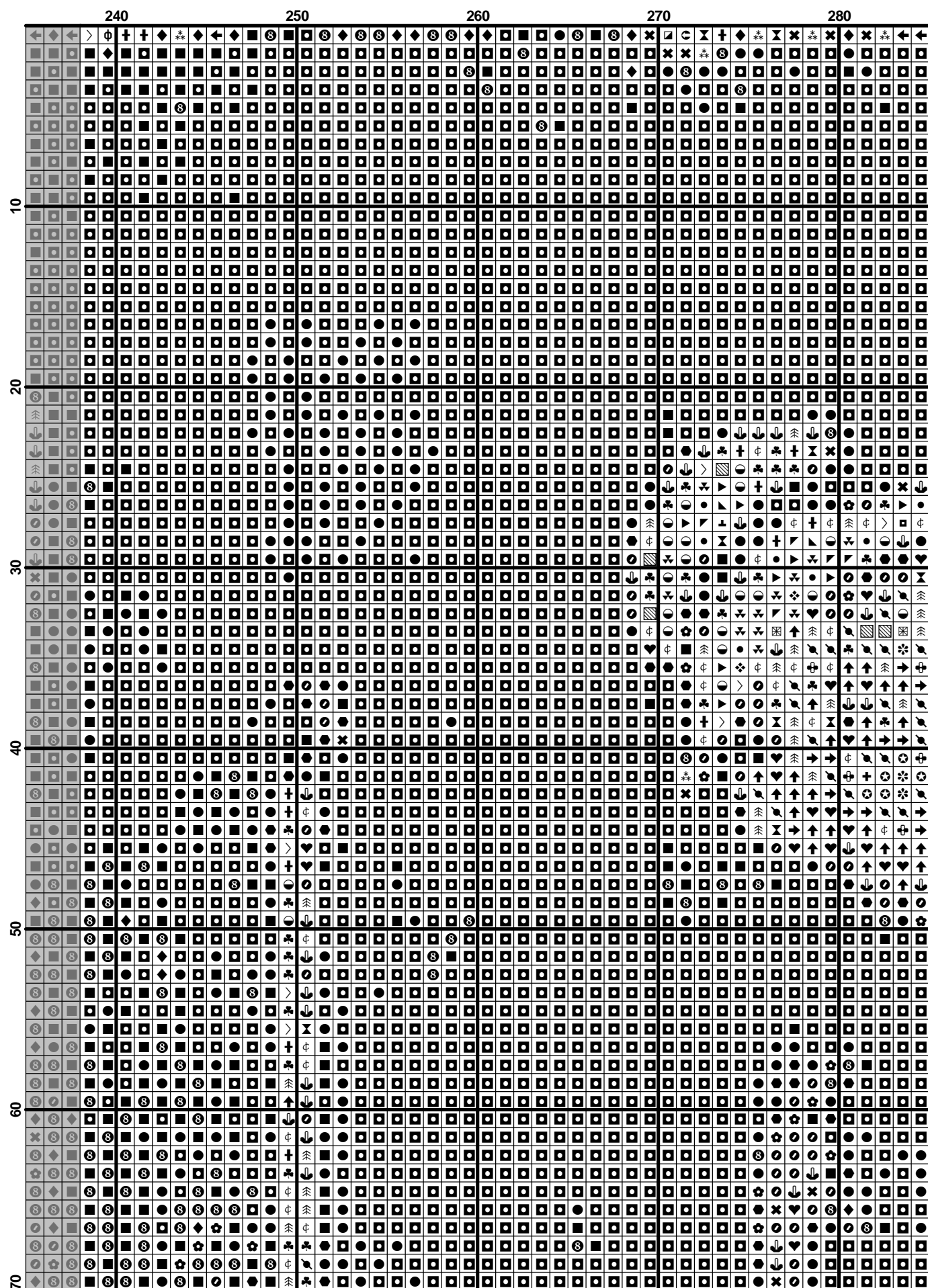
[illegible]

$$(10) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (11)$$

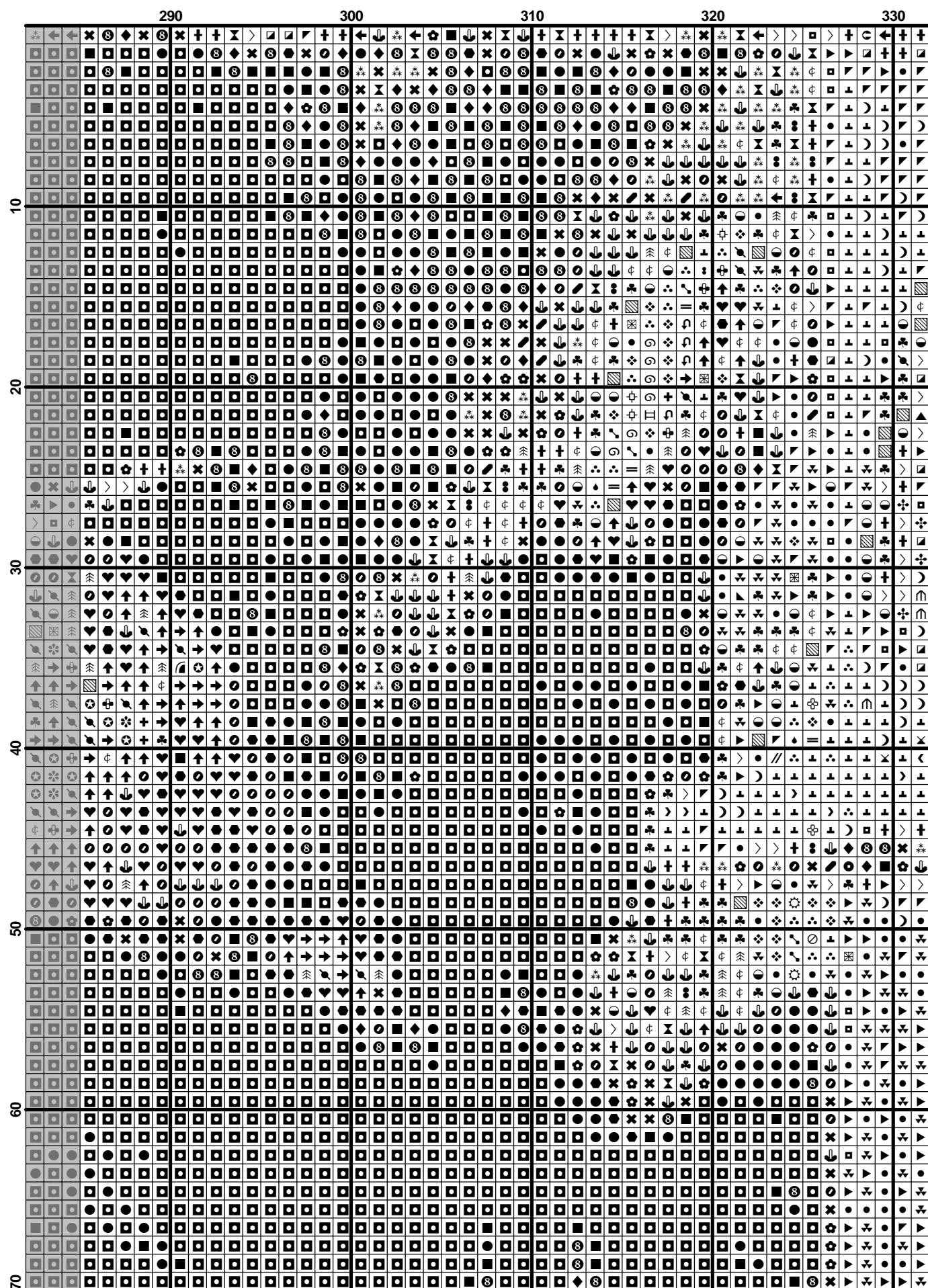
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20	...	...	...	...	...
30	...	...	...	...	...
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50	...	...	...	...	...
60	...	...	...	...	...
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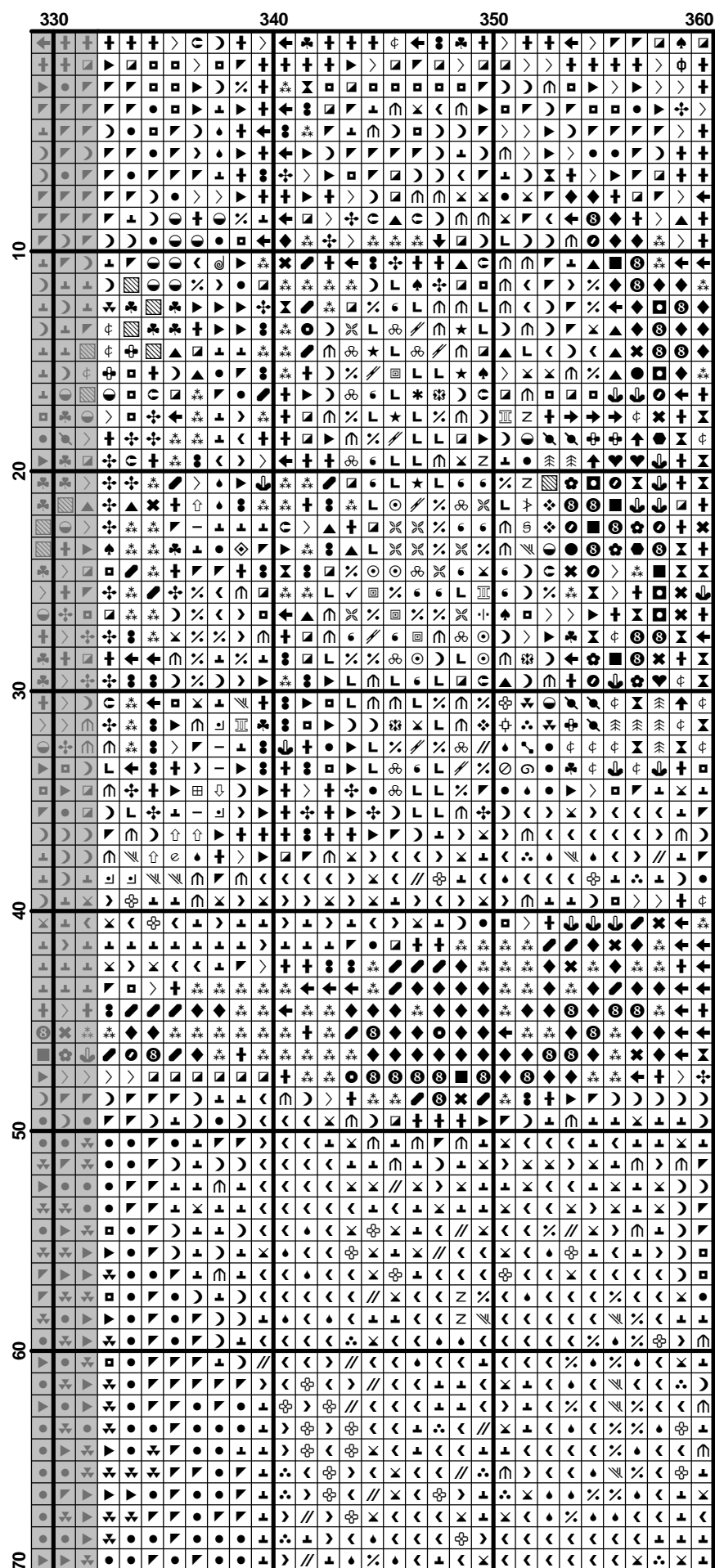
$$(12) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

$$(13) \quad \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$





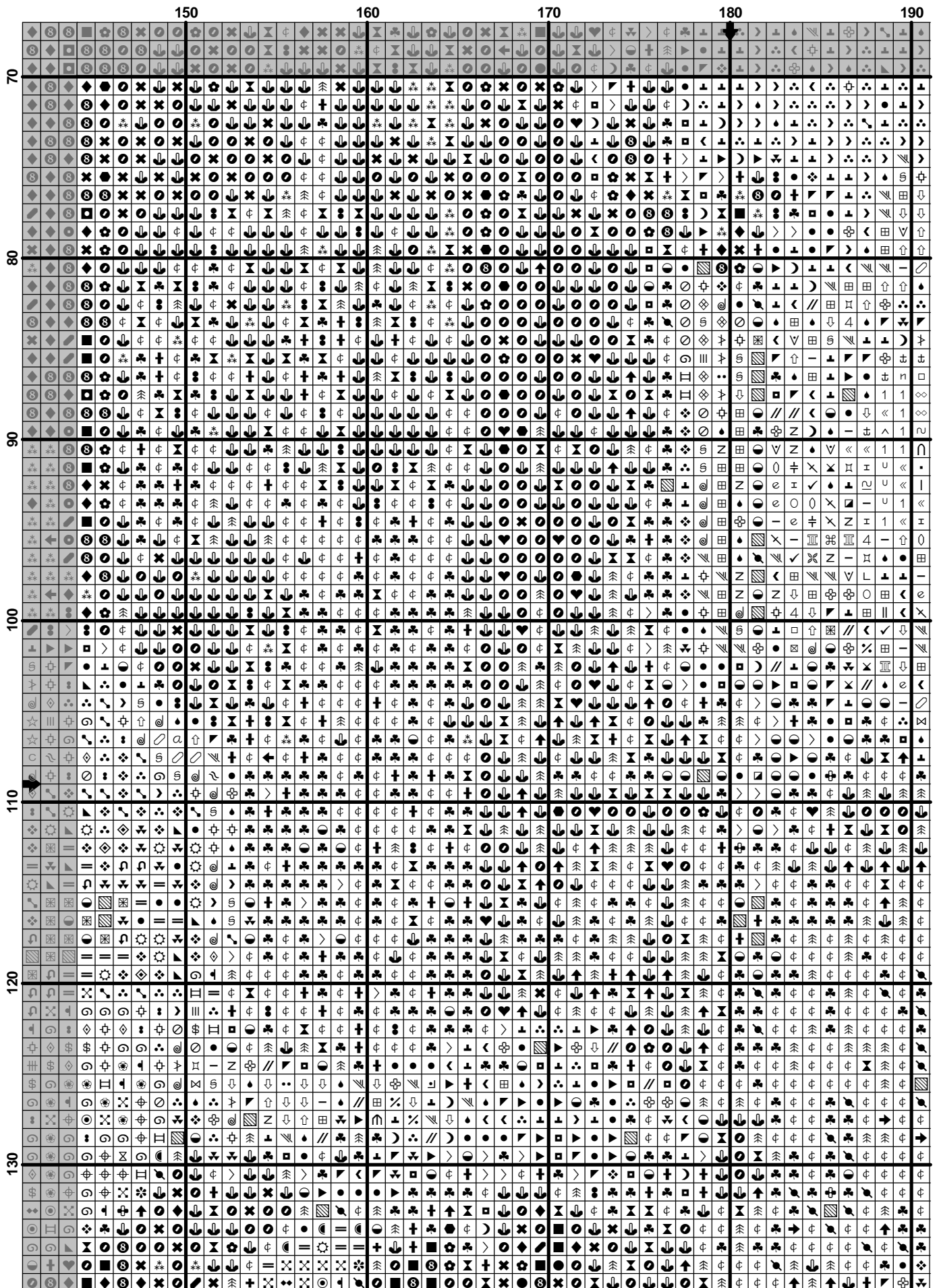




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70					
80					
90					
100					
110					
120					
130					

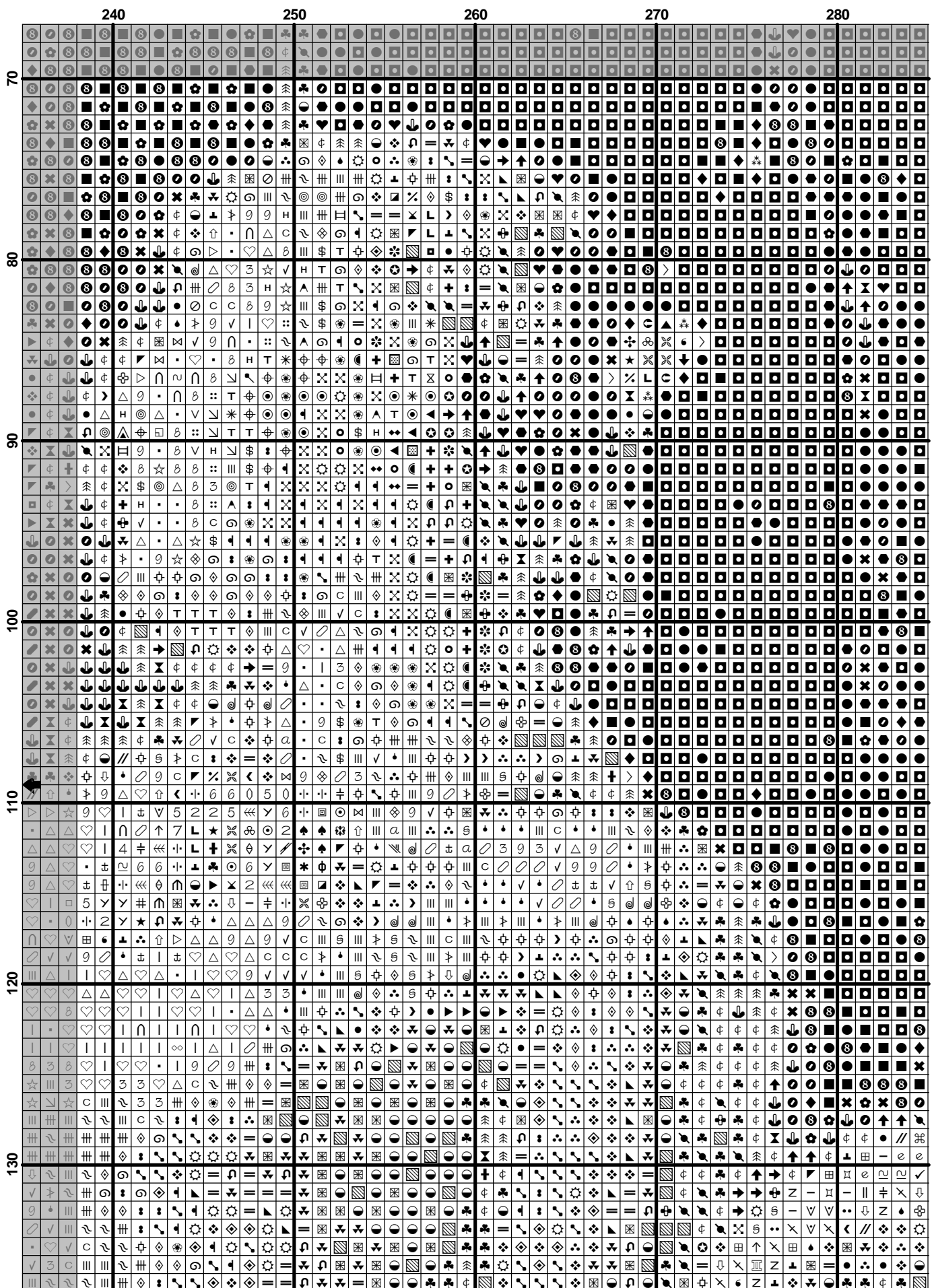
[illegible]

[illegible]

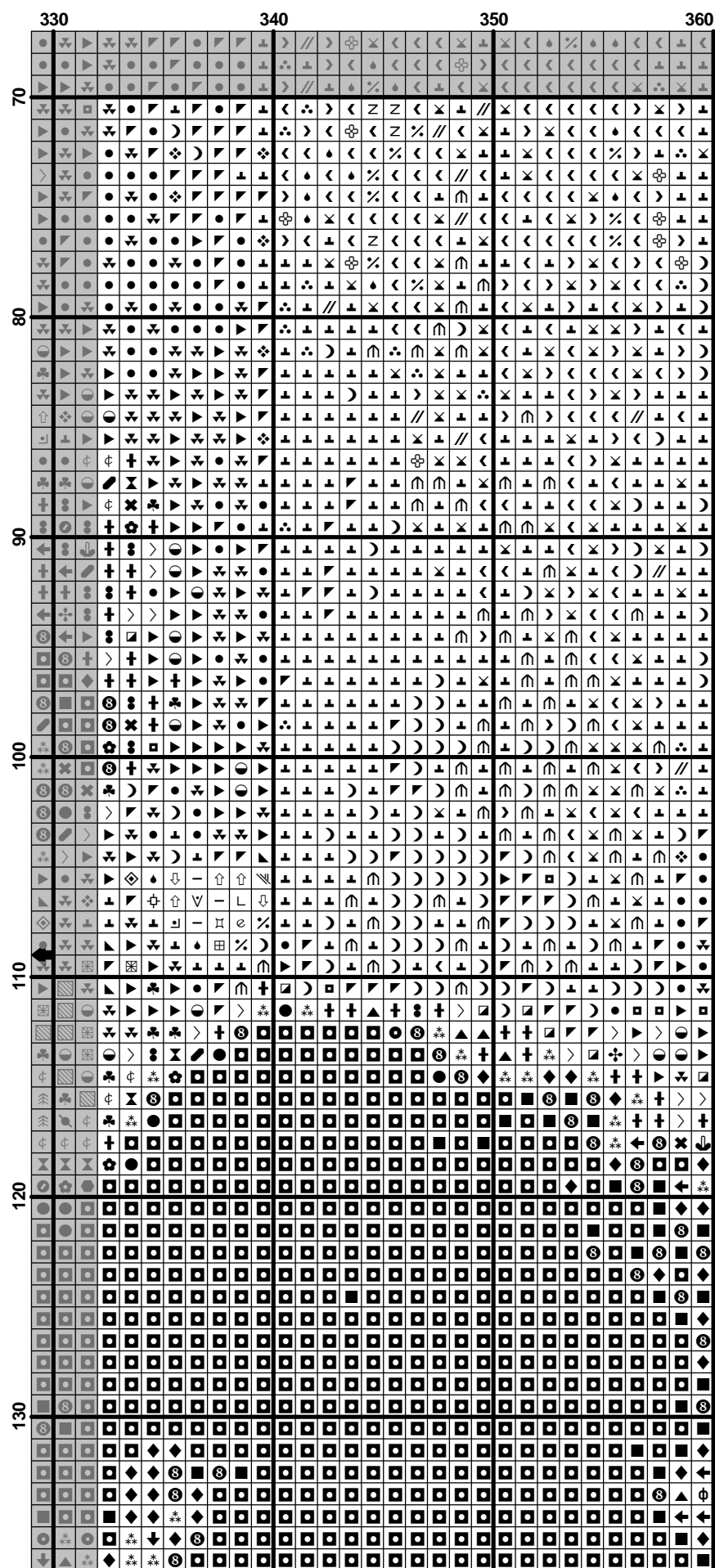


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100					
110					
120					
130					

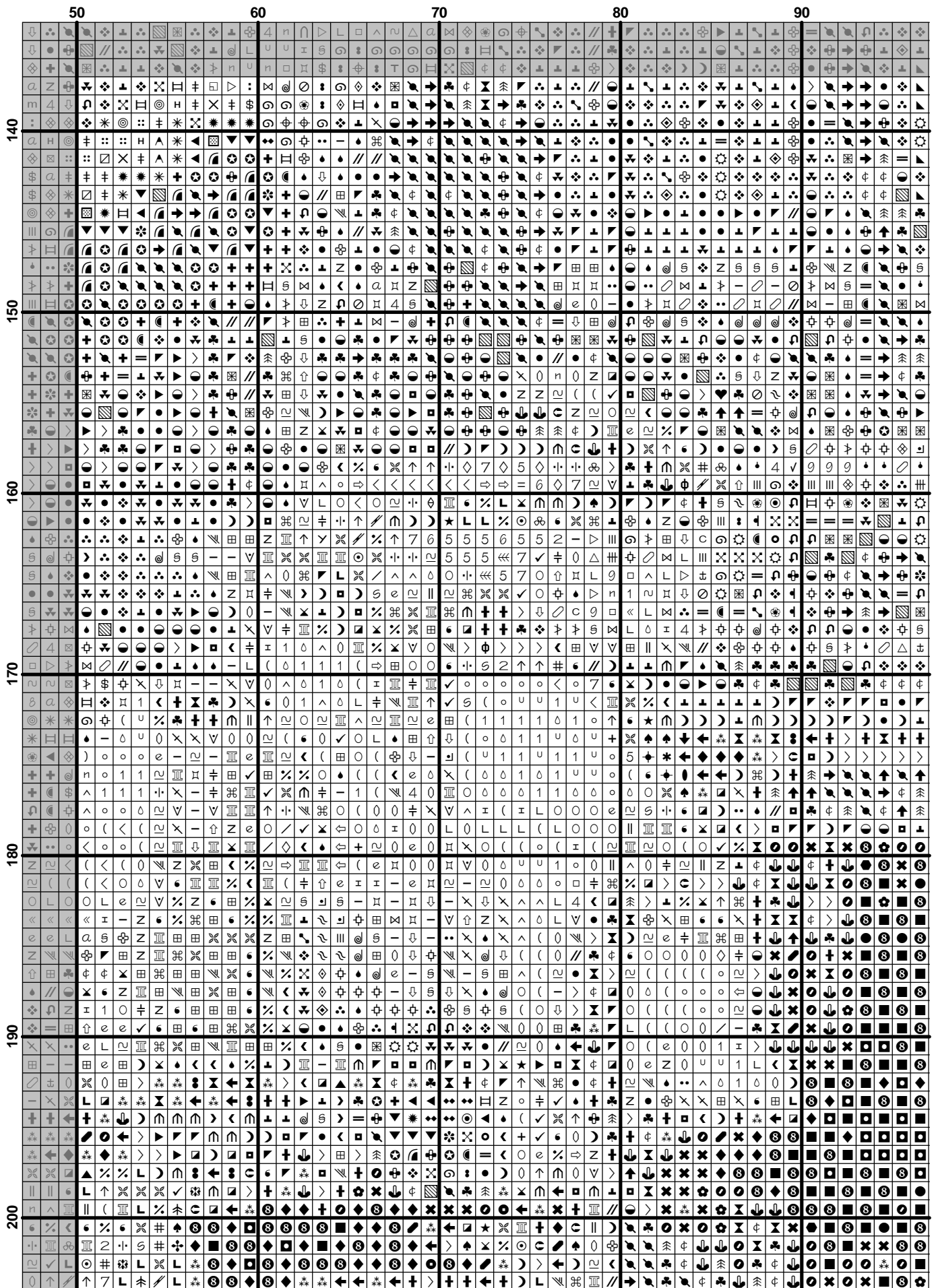








$$(25) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \cup \mathcal{L}(\mathcal{C}) \quad (26)$$

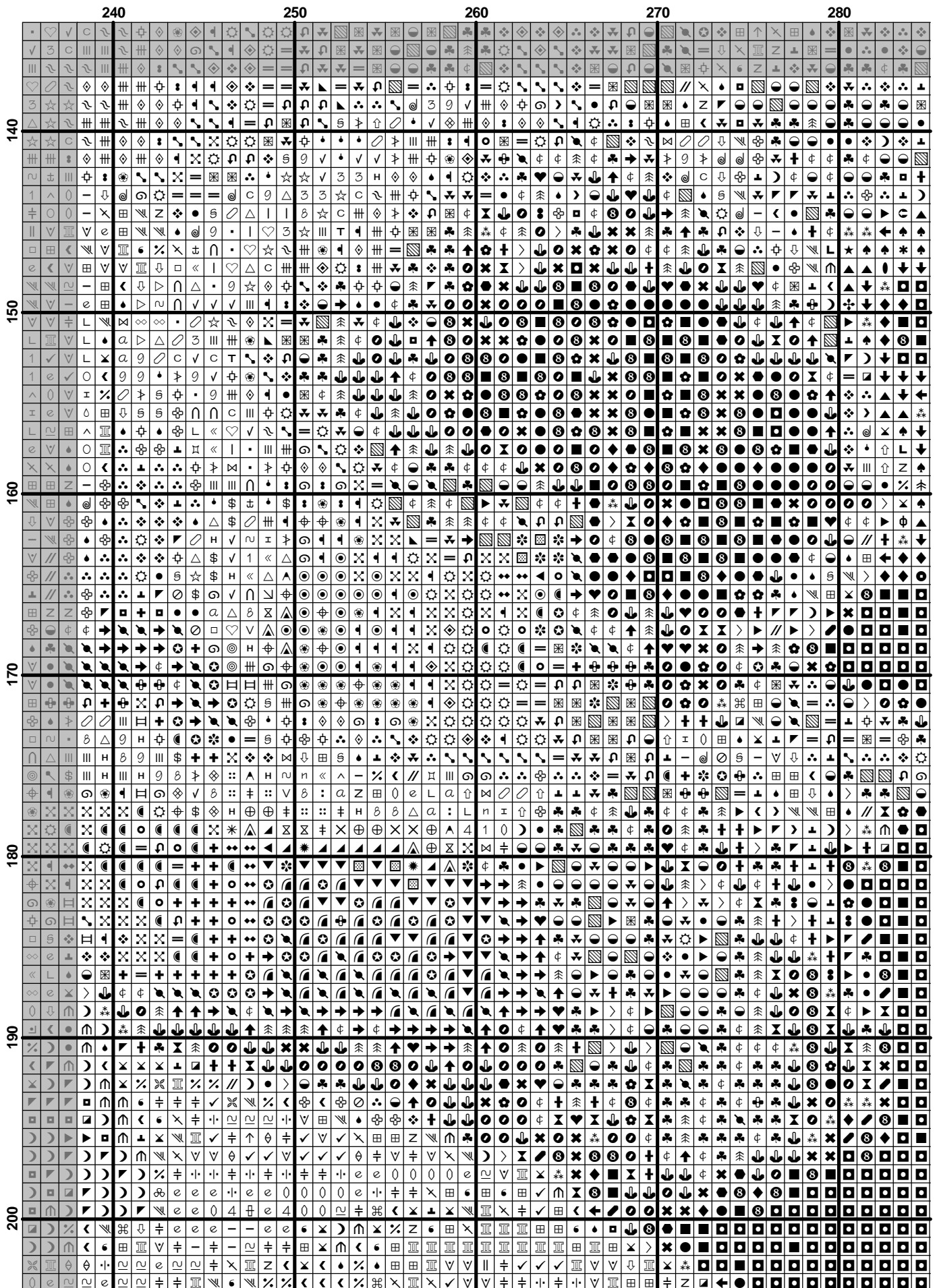


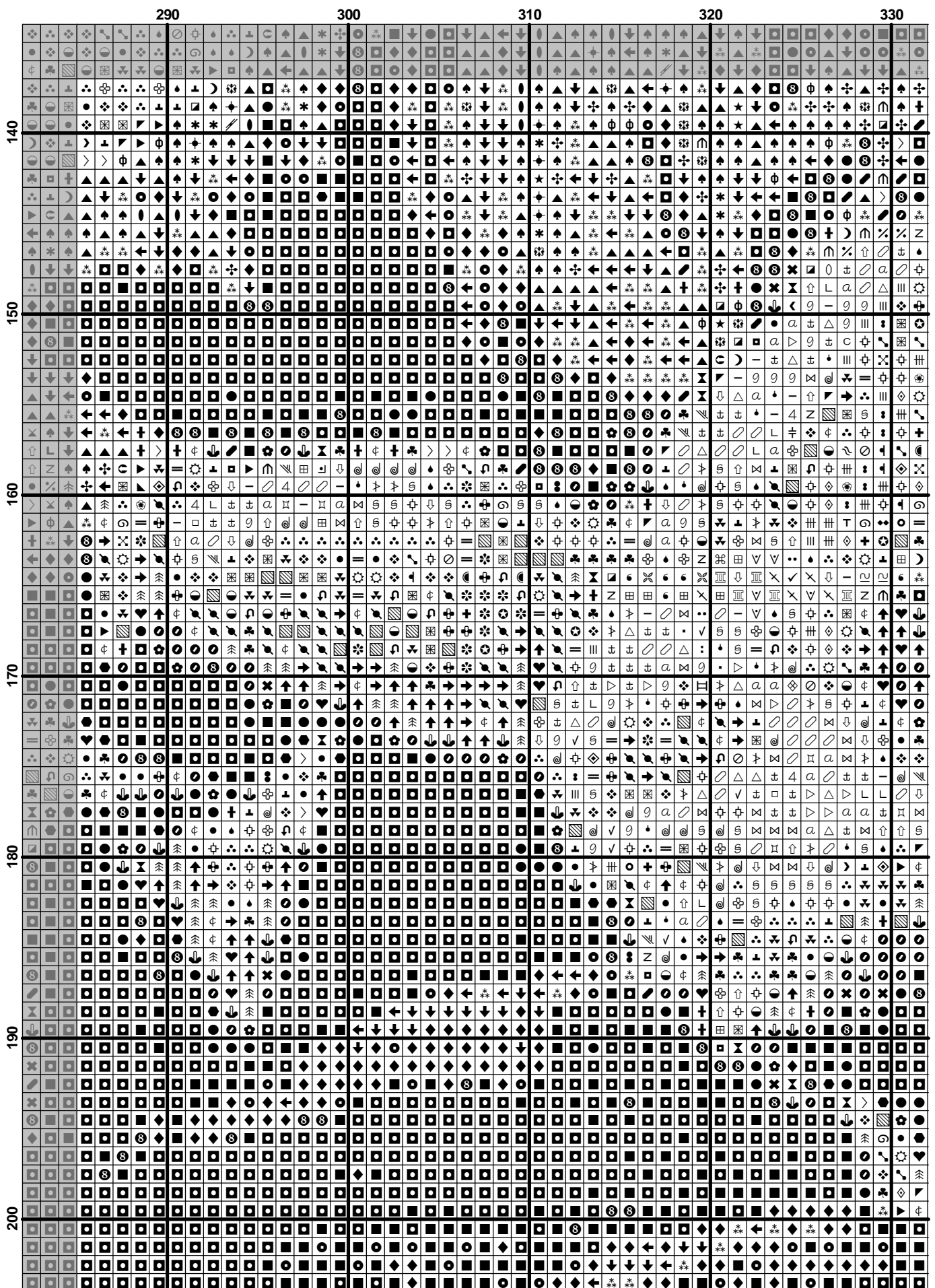
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170					
180					
190					
200					

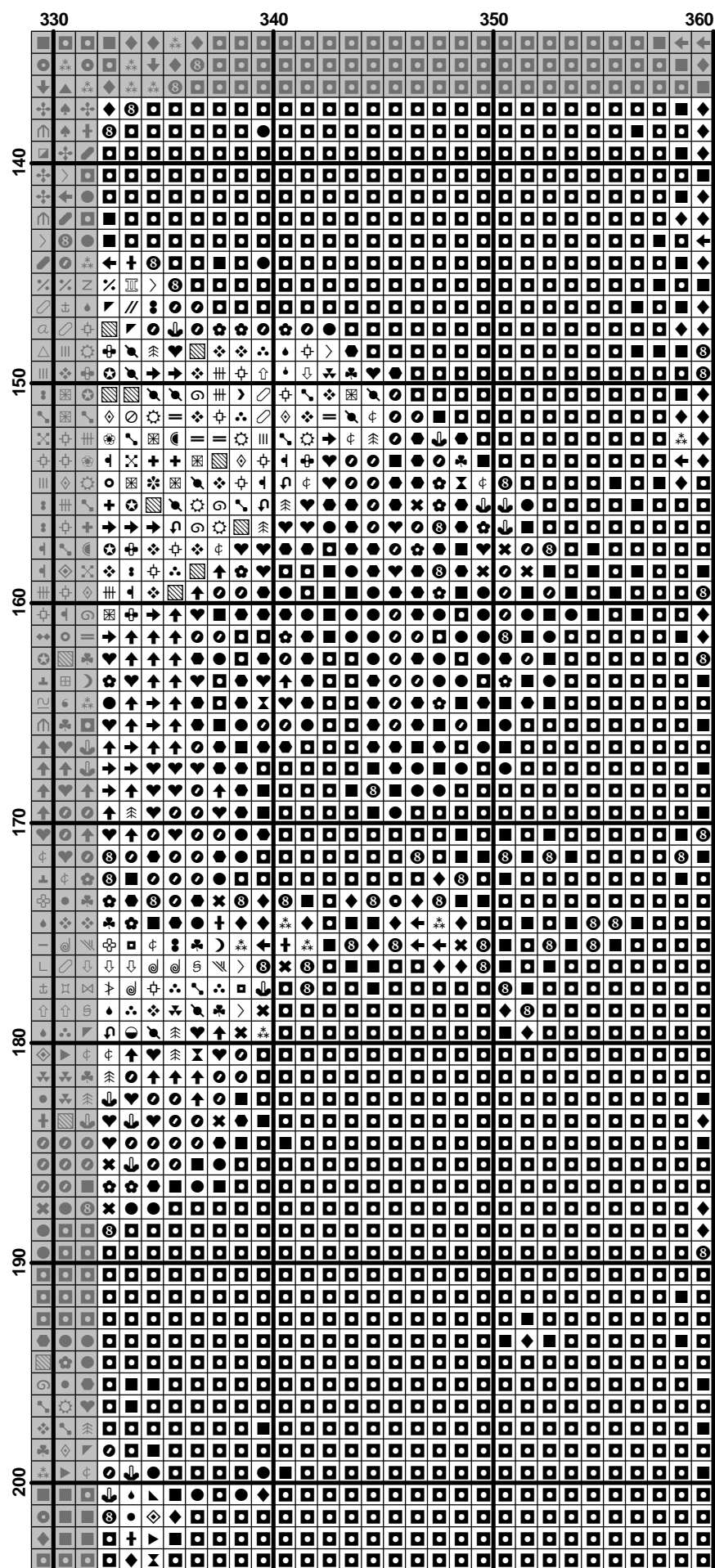
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150	...	...	...	...	...
160	...	...	...	...	...
170	...	...	...	...	...
180	...	...	...	...	...
190	...	...	...	...	...
200	...	...	...	...	...

$$(29) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (30)$$









[illegible]

