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989 Her Best Friend



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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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Her Best Friend																										
<table><tr><td colspan="2">Stitch Count</td></tr><tr><td>Horizontal:</td><td>400</td></tr><tr><td>Vertical:</td><td>524</td></tr></table>					Stitch Count		Horizontal:	400	Vertical:	524	<table><tr><td colspan="4">Recommended Fabric Color</td></tr><tr><td colspan="4">Antique White</td></tr></table>								Recommended Fabric Color				Antique White			
Stitch Count																										
Horizontal:	400																									
Vertical:	524																									
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:	73	28.44	95	37.28	64	24.89	83	32.62	57	22.125	74	29														
Including Margins:	89	35	111	44	80	31	99	39	73	29	90	36														
	10				12				24																	
	Width		Height		Width		Height		Width		Height															
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch														
Pattern:	102	39.81	133	52.19	85	33.18	110	43.49	42	16.59	55	21.74														
Including Margins:	118	46	149	59	101	40	126	50	58	23	71	28														
	25				26				27																	
	Width		Height		Width		Height		Width		Height															
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch														
Pattern:	40	15.92	53	20.87	39	15.31	51	20.07	37	14.74	49	19.33														
Including Margins:	56	22	69	27	55	22	67	27	53	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:	36	14.22	47	18.64	34	13.27	44	17.39	31	12.44	41	16.31														
Including Margins:	52	21	63	25	50	20	60	24	47	19	57	23														

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

Symbol	DMC	Name
	223	Shell Pink-LT
■	310	Black
+	315	Antique Mauve-VY DK
m	316	Antique Mauve-MD
▀	317	Pewter Gray
◀	318	Steel Gray-LT
⊕	407	Desert Sand-DK
▣	413	Pewter Gray -DK
⊕	414	Steel Gray-DK
<	415	Pearl Gray
+	451	Shell Gray-DK
v	452	Shell Gray-MD
a	453	Shell Gray-LT
«	535	Ash Gray-VY LT
☆	543	Beige Brown-UL VY LT
▣	645	Beaver Gray-VY DK
▷	648	Beaver Gray-LT
1	738	Tan-VY LT
6	822	Beige Gray-LT
**	838	Beige Brown-VY DK
⌂	839	Beige Brown-DK
⌂	840	Beige Brown-MD
⌂	841	Beige Brown-LT
~	842	Beige Brown-VY LT
▣	844	Beaver Brown-UL DK
▲	926	Gray Green-MD
=	927	Gray Green-LT

I	928	Gray Green-VY LT
L	931	Antique Blue-MD
Λ	932	Antique Blue-LT
●	938	Coffee Brown-UL DK
+	3021	Brown Gray -VY DK
@	3023	Brown Gray -LT
◇	3024	Brown Gray -VY LT
⊕	3031	Mocha Brown-VY DK
△	3033	Mocha Brown-VY LT
⊕	3041	Antique Violet-MD
..	3064	Desert Sand
::	3072	Beaver Gray-VY LT
●	3371	Black Brown
⊕	3722	Shell Pink-MD
*	3726	Antique Mauve-DK
⌂	3740	Antique Violet-DK
δ	3743	Antique Violet-VY LT
⌂	3772	Desert Sand-VY DK
=	3787	Brown Gray -DK
c	3790	Beige Gray-UL DK
●	3799	Pewter Gray -VY DK
⌂	3817	Celadon Green-LT
▲	3858	Rosewood-MD
⌂	3859	Rosewood-LT
▣	3860	Cocoa
T	3861	Cocoa-LT
⌂	3862	Mocha Beige-DK
⌂	3863	Mocha Beige-MD
⌂	3864	Mocha Beige-LT
◁	3866	Mocha Brown-UL VY LT

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

Symbol	DMC1	Name1	DMC2	Name2
◆	3021	Brown Gray -VY DK	3799	Pewter Gray -VY DK
↓	844	Beaver Brown-UL DK	3799	Pewter Gray -VY DK
4	612	Drab Brown-LT	3859	Rosewood-LT
∩	356	Terra Cotta-MD	370	Mustard-MD
⌂	645	Beaver Gray-VY DK	646	Beaver Gray-DK
u	452	Shell Gray-MD	453	Shell Gray-LT
↓	503	Blue Green-MD	927	Gray Green-LT
3	928	Gray Green-VY LT	453	Shell Gray-LT
e	3021	Brown Gray -VY DK	844	Beaver Brown-UL DK
⌂	3371	Black Brown	3021	Brown Gray -VY DK
▣	839	Beige Brown-DK	844	Beaver Brown-UL DK
▣	844	Beaver Brown-UL DK	3860	Cocoa
∪	945	Tawny	3864	Mocha Beige-LT
×	3859	Rosewood-LT	640	Beige Gray-VY DK
⌂	3859	Rosewood-LT	632	Desert Sand-UL VY DK
➔	838	Beige Brown-VY DK	839	Beige Brown-DK
⊙	407	Desert Sand-DK	3864	Mocha Beige-LT
▲	640	Beige Gray-VY DK	840	Beige Brown-MD
7	3779	Terra Cotta-UL VY LT	3864	Mocha Beige-LT
↑	838	Beige Brown-VY DK	844	Beaver Brown-UL DK

♣	839	Beige Brown-DK	315	Antique Mauve-VY DK
■	315	Antique Mauve-VY DK	844	Beaver Brown-UL DK
☾	3721	Shell Pink-DK	3722	Shell Pink-MD
☼	356	Terra Cotta-MD	371	Mustard
♥	3072	Beaver Gray-VY LT	225	Shell Pink-UL VY LT
✶	3722	Shell Pink-MD	315	Antique Mauve-VY DK
▲	840	Beige Brown-MD	3726	Antique Mauve-DK
/	415	Pearl Gray	453	Shell Gray-LT
☿	648	Beaver Gray-LT	451	Shell Gray-DK
✧	451	Shell Gray-DK	414	Steel Gray-DK
✠	414	Steel Gray-DK	3861	Cocoa-LT
□	414	Steel Gray-DK	452	Shell Gray-MD
⚡	927	Gray Green-LT	3042	Antique Violet-LT
♠	3860	Cocoa	451	Shell Gray-DK
♦♦	3722	Shell Pink-MD	3859	Rosewood-LT
⌒	318	Steel Gray-LT	928	Gray Green-VY LT
◇	414	Steel Gray-DK	931	Antique Blue-MD
‡	927	Gray Green-LT	334	Baby Blue-MD
⇐	415	Pearl Gray	318	Steel Gray-LT
—	415	Pearl Gray	932	Antique Blue-LT
✪	317	Pewter Gray	931	Antique Blue-MD
○	317	Pewter Gray	3849	Teal Green-LT
)	3743	Antique Violet-VY LT	3753	Antique Blue-UL VY LT
☼	3752	Antique Blue-VY LT	931	Antique Blue-MD
↘	453	Shell Gray-LT	648	Beaver Gray-LT
ㄣ	950	Desert Sand-LT	452	Shell Gray-MD
⚓	640	Beige Gray-VY DK	451	Shell Gray-DK
★	3861	Cocoa-LT	3863	Mocha Beige-MD
♠	407	Desert Sand-DK	758	Terra Cotta-VY LT
✦	640	Beige Gray-VY DK	839	Beige Brown-DK
○	415	Pearl Gray	3743	Antique Violet-VY LT
↑	3861	Cocoa-LT	3864	Mocha Beige-LT
c	3743	Antique Violet-VY LT	712	Cream
‡	407	Desert Sand-DK	223	Shell Pink-LT
≡	762	Pearl Gray-VY LT	3743	Antique Violet-VY LT
φ	645	Beaver Gray-VY DK	535	Ash Gray-VY LT
☼	317	Pewter Gray	3768	Gray Green-DK
‡	839	Beige Brown-DK	645	Beaver Gray-VY DK
●	3021	Brown Gray-VY DK	3860	Cocoa
III	3740	Antique Violet-DK	645	Beaver Gray-VY DK
⌒	318	Steel Gray-LT	452	Shell Gray-MD
○	317	Pewter Gray	3041	Antique Violet-MD
*	223	Shell Pink-LT	3861	Cocoa-LT
+	758	Terra Cotta-VY LT	223	Shell Pink-LT
↖	927	Gray Green-LT	414	Steel Gray-DK
ㄣ	950	Desert Sand-LT	3864	Mocha Beige-LT
△	452	Shell Gray-MD	648	Beaver Gray-LT
L	613	Drab Brown-VY LT	3864	Mocha Beige-LT
☼	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
♠	3023	Brown Gray-LT	3861	Cocoa-LT
∞	225	Shell Pink-UL VY LT	3866	Mocha Brown-UL VY LT
⊕	451	Shell Gray-DK	3032	Mocha Brown-MD
▶	413	Pewter Gray-DK	317	Pewter Gray
#	317	Pewter Gray	414	Steel Gray-DK
//	318	Steel Gray-LT	648	Beaver Gray-LT
✪	414	Steel Gray-DK	503	Blue Green-MD
♠	223	Shell Pink-LT	612	Drab Brown-LT
☼	451	Shell Gray-DK	3726	Antique Mauve-DK
⚡	640	Beige Gray-VY DK	3726	Antique Mauve-DK

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•	842	Beige Brown-VY LT	945	Tawny
♠	3861	Cocoa-LT	407	Desert Sand-DK
☼	758	Terra Cotta-VY LT	452	Shell Gray-MD
×	3031	Mocha Brown-VY DK	315	Antique Mauve-VY DK
▼	315	Antique Mauve-VY DK	535	Ash Gray-VY LT
◀	315	Antique Mauve-VY DK	3772	Desert Sand-VY DK
⚙	318	Steel Gray-LT	414	Steel Gray-DK
Ⓢ	3799	Pewter Gray-VY DK	3371	Black Brown
⊙	3861	Cocoa-LT	612	Drab Brown-LT
♠	3864	Mocha Beige-LT	223	Shell Pink-LT
♠	451	Shell Gray-DK	3861	Cocoa-LT
♠	3860	Cocoa	3726	Antique Mauve-DK
♠	407	Desert Sand-DK	3859	Rosewood-LT
9	543	Beige Brown-UL VY LT	950	Desert Sand-LT
5	950	Desert Sand-LT	778	Antique Mauve-VY LT
0	3864	Mocha Beige-LT	758	Terra Cotta-VY LT
⊙	3772	Desert Sand-VY DK	3861	Cocoa-LT
⊗	927	Gray Green-LT	931	Antique Blue-MD
■	310	Black	939	Navy Blue-VY DK
●	310	Black	3799	Pewter Gray-VY DK
×	838	Beige Brown-VY DK	3021	Brown Gray-VY DK
♠	503	Blue Green-MD	3041	Antique Violet-MD
+	3021	Brown Gray-VY DK	315	Antique Mauve-VY DK
←	3799	Pewter Gray-VY DK	315	Antique Mauve-VY DK
Ⓢ	640	Beige Gray-VY DK	315	Antique Mauve-VY DK
♠	451	Shell Gray-DK	3721	Shell Pink-DK
□	3861	Cocoa-LT	3726	Antique Mauve-DK
●	844	Beaver Brown-UL DK	3861	Cocoa-LT
⇒	613	Drab Brown-VY LT	3861	Cocoa-LT
♠	844	Beaver Brown-UL DK	640	Beige Gray-VY DK
♠	838	Beige Brown-VY DK	3860	Cocoa
☼	315	Antique Mauve-VY DK	610	Drab Brown-DK
■	844	Beaver Brown-UL DK	610	Drab Brown-DK
Ⓢ	3859	Rosewood-LT	840	Beige Brown-MD
☼	3863	Mocha Beige-MD	407	Desert Sand-DK
♠	712	Cream	3024	Brown Gray-VY LT
(3033	Mocha Brown-VY LT	3024	Brown Gray-VY LT
♠	632	Desert Sand-UL VY DK	315	Antique Mauve-VY DK
>	613	Drab Brown-VY LT	453	Shell Gray-LT
☾	3726	Antique Mauve-DK	316	Antique Mauve-MD
↑	3861	Cocoa-LT	453	Shell Gray-LT
⊗	3033	Mocha Brown-VY LT	453	Shell Gray-LT
✓	452	Shell Gray-MD	543	Beige Brown-UL VY LT
⊙	452	Shell Gray-MD	3864	Mocha Beige-LT
?	778	Antique Mauve-VY LT	543	Beige Brown-UL VY LT
➤	451	Shell Gray-DK	453	Shell Gray-LT
н	451	Shell Gray-DK	3023	Brown Gray-LT
♠	316	Antique Mauve-MD	3733	Dusty Rose
III	3731	Dusty Rose-VY DK	3722	Shell Pink-MD
^	3743	Antique Violet-VY LT	3072	Beaver Gray-VY LT
♥	3031	Mocha Brown-VY DK	3799	Pewter Gray-VY DK
☼	407	Desert Sand-DK	3731	Dusty Rose-VY DK
☼	318	Steel Gray-LT	931	Antique Blue-MD
▼	3041	Antique Violet-MD	931	Antique Blue-MD
❖	334	Baby Blue-MD	793	Cornflower Blue-MD
☼	793	Cornflower Blue-MD	931	Antique Blue-MD
Ⓢ	927	Gray Green-LT	793	Cornflower Blue-MD
z	3041	Antique Violet-MD	318	Steel Gray-LT
Ⓢ	3042	Antique Violet-LT	3072	Beaver Gray-VY LT

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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	
223	Shell Pink-LT	392	154	374	147	336	132
225	Shell Pink-UL VY LT	37	14	36	14	32	12
310	Black	4039	1590	3846	1514	3462	1362
315	Antique Mauve-VY DK	1288	507	1226	482	1104	434
316	Antique Mauve-MD	31	12	29	11	26	10
317	Pewter Gray	424	166	404	159	363	142
318	Steel Gray-LT	830	326	790	311	711	279
334	Baby Blue-MD	33	12	31	12	28	11
356	Terra Cotta-MD	9	3	9	3	8	3
370	Mustard-MD	5	1	4	1	4	1
371	Mustard	4	1	4	1	3	1
407	Desert Sand-DK	574	225	547	215	492	193
413	Pewter Gray -DK	281	110	268	105	241	94
414	Steel Gray-DK	764	300	727	286	654	257
415	Pearl Gray	1133	446	1079	424	971	382
451	Shell Gray-DK	842	331	802	315	722	284
452	Shell Gray-MD	1242	488	1183	465	1065	419
453	Shell Gray-LT	2049	806	1952	768	1756	691
503	Blue Green-MD	33	12	31	12	28	11
535	Ash Gray -VY LT	412	162	393	154	353	138
543	Beige Brown-UL VY LT	263	103	250	98	225	88
610	Drab Brown-DK	128	50	122	48	109	42
612	Drab Brown-LT	130	51	124	48	111	43
613	Drab Brown-VY LT	124	48	118	46	106	41
632	Desert Sand-UL VY DK	41	16	39	15	35	13
640	Beige Gray-VY DK	670	263	638	251	574	225
645	Beaver Gray-VY DK	451	177	430	169	387	152
646	Beaver Gray-DK	33	12	32	12	29	11
648	Beaver Gray-LT	708	278	674	265	607	238
712	Cream	272	107	259	101	233	91
738	Tan-VY LT	7	2	6	2	6	2
758	Terra Cotta-VY LT	309	121	294	115	264	103
762	Pearl Gray-VY LT	20	7	19	7	17	6
778	Antique Mauve-VY LT	97	38	93	36	83	32
793	Cornflower Blue-MD	268	105	256	100	230	90
822	Beige Gray-LT	165	64	157	61	141	55
838	Beige Brown-VY DK	876	344	834	328	750	295
839	Beige Brown-DK	675	265	642	252	578	227
840	Beige Brown-MD	394	155	376	148	338	133
841	Beige Brown-LT	67	26	63	24	57	22
842	Beige Brown-VY LT	148	58	141	55	127	50
844	Beaver Brown-UL DK	2553	1005	2431	957	2188	861
926	Gray Green-MD	14	5	14	5	12	4
927	Gray Green-LT	348	137	331	130	298	117
928	Gray Green-VY LT	623	245	594	233	534	210
931	Antique Blue-MD	1006	396	958	377	862	339
932	Antique Blue-LT	48	18	45	17	41	16
938	Coffee Brown-UL DK	101	39	96	37	86	33
939	Navy Blue-VY DK	583	229	555	218	499	196
945	Tawny	94	37	89	35	80	31
950	Desert Sand-LT	227	89	216	85	194	76
3021	Brown Gray -VY DK	1812	713	1725	679	1553	611
3023	Brown Gray -LT	132	51	126	49	113	44
3024	Brown Gray -VY LT	1301	512	1239	487	1115	438

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3031	Mocha Brown-VY DK	1788	703	1703	670	1533	603
3032	Mocha Brown-MD	19	7	18	7	16	6
3033	Mocha Brown-VY LT	498	196	474	186	427	168
3041	Antique Violet-MD	315	124	300	118	270	106
3042	Antique Violet-LT	486	191	463	182	416	163
3064	Desert Sand	9	3	9	3	8	3
3072	Beaver Gray-VY LT	1299	511	1238	487	1114	438
3371	Black Brown	7776	3061	7405	2915	6665	2624
3721	Shell Pink-DK	25	9	24	9	22	8
3722	Shell Pink-MD	118	46	112	44	101	39
3726	Antique Mauve-DK	426	167	406	159	365	143
3731	Dusty Rose-VY DK	25	9	24	9	22	8
3733	Dusty Rose	5	1	5	1	5	1
3740	Antique Violet-DK	161	63	154	60	138	54
3743	Antique Violet-VY LT	963	379	917	361	825	324
3752	Antique Blue-VY LT	10	3	10	3	9	3
3753	Antique Blue-UL VY LT	7	2	6	2	6	2
3768	Gray Green-DK	10	3	9	3	8	3
3772	Desert Sand-VY DK	281	110	268	105	241	94
3779	Terra Cotta-UL VY LT	45	17	42	16	38	14
3787	Brown Gray -DK	59	23	56	22	50	19
3790	Beige Gray-UL DK	107	42	102	40	91	35
3799	Pewter Gray-VY DK	11421	4496	10877	4282	9790	3854
3817	Celadon Green-LT	7	2	6	2	6	2
3849	Teal Green-LT	2	1	2	1	2	1
3858	Rosewood-MD	8	3	7	2	7	2
3859	Rosewood-LT	335	131	319	125	287	112
3860	Cocoa	913	359	869	342	782	307
3861	Cocoa-LT	1358	534	1293	509	1164	458
3862	Mocha Beige-DK	95	37	90	35	81	31
3863	Mocha Beige-MD	264	103	251	98	226	88
3864	Mocha Beige-LT	1099	432	1046	411	942	370
3866	Mocha Brown-UL VY LT	70	27	66	25	60	23

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
223	Shell Pink-LT	605	238	504	198	252	99
225	Shell Pink-UL VY LT	58	22	48	18	24	9
310	Black	6232	2452	5193	2043	2597	1022
315	Antique Mauve-VY DK	1987	781	1656	651	828	326
316	Antique Mauve-MD	47	18	39	15	20	8
317	Pewter Gray	653	256	545	213	272	107
318	Steel Gray-LT	1280	502	1067	419	533	209
334	Baby Blue-MD	50	20	42	17	21	8
356	Terra Cotta-MD	14	5	12	5	6	2
370	Mustard-MD	7	2	6	2	3	1
371	Mustard	5	2	5	2	2	1
407	Desert Sand-DK	886	347	738	290	369	145
413	Pewter Gray -DK	434	169	362	141	181	71
414	Steel Gray-DK	1177	463	981	386	491	193
415	Pearl Gray	1748	688	1457	573	728	287
451	Shell Gray-DK	1300	511	1083	426	542	213
452	Shell Gray-MD	1917	754	1598	629	799	314
453	Shell Gray-LT	3161	1244	2634	1037	1317	518
503	Blue Green-MD	50	20	42	17	21	8

535	Ash Gray-VY LT	635	248	530	207	265	104
543	Beige Brown-UL VY LT	405	158	338	132	169	66
610	Drab Brown-DK	196	76	164	63	82	32
612	Drab Brown-LT	200	77	167	65	83	32
613	Drab Brown-VY LT	191	74	159	62	80	31
632	Desert Sand-UL VY DK	63	23	53	20	26	10
640	Beige Gray-VY DK	1033	405	861	338	431	169
645	Beaver Gray-VY DK	697	274	581	228	290	114
646	Beaver Gray-DK	52	20	44	17	22	8
648	Beaver Gray-LT	1093	428	911	357	455	179
712	Cream	419	164	350	137	175	68
738	Tan-VY LT	11	4	9	3	5	2
758	Terra Cotta-VY LT	475	185	396	155	198	77
762	Pearl Gray-VY LT	31	11	26	9	13	5
778	Antique Mauve-VY LT	149	58	125	48	62	24
793	Cornflower Blue-MD	414	162	345	135	173	68
822	Beige Gray-LT	254	99	212	83	106	41
838	Beige Brown-VY DK	1350	531	1125	443	563	221
839	Beige Brown-DK	1040	409	867	341	434	170
840	Beige Brown-MD	608	239	507	200	254	100
841	Beige Brown-LT	103	40	86	33	43	17
842	Beige Brown-VY LT	229	90	191	75	95	38
844	Beaver Brown-UL DK	3938	1550	3282	1292	1641	646
926	Gray Green-MD	22	7	18	6	9	3
927	Gray Green-LT	536	211	447	176	224	88
928	Gray Green-VY LT	961	378	801	315	401	158
931	Antique Blue-MD	1552	610	1293	509	647	254
932	Antique Blue-LT	74	29	62	24	31	12
938	Coffee Brown-UL DK	155	59	129	50	65	25
939	Navy Blue-VY DK	898	353	749	294	374	147
945	Tawny	144	56	120	47	60	23
950	Desert Sand-LT	349	137	291	114	146	57
3021	Brown Gray-VY DK	2795	1100	2330	917	1165	458
3023	Brown Gray-LT	203	79	170	66	85	33
3024	Brown Gray-VY LT	2007	788	1673	657	836	329
3031	Mocha Brown-VY DK	2759	1085	2300	905	1150	452
3032	Mocha Brown-MD	29	11	24	9	12	5
3033	Mocha Brown-VY LT	769	302	641	252	320	126
3041	Antique Violet-MD	486	191	405	159	203	80
3042	Antique Violet-LT	749	293	624	245	312	122
3064	Desert Sand	14	5	12	5	6	2
3072	Beaver Gray-VY LT	2005	788	1671	657	836	329
3371	Black Brown	11997	4723	9998	3936	4999	1968
3721	Shell Pink-DK	40	14	33	12	17	6
3722	Shell Pink-MD	182	70	152	59	76	29
3726	Antique Mauve-DK	657	257	548	215	274	107
3731	Dusty Rose-VY DK	40	14	33	12	17	6
3733	Dusty Rose	9	2	8	2	4	1
3740	Antique Violet-DK	248	97	207	81	104	41
3743	Antique Violet-VY LT	1485	583	1238	486	619	243
3752	Antique Blue-VY LT	16	5	14	5	7	2
3753	Antique Blue-UL VY LT	11	4	9	3	5	2
3768	Gray Green-DK	14	5	12	5	6	2
3772	Desert Sand-VY DK	434	169	362	141	181	71
3779	Terra Cotta-UL VY LT	68	25	57	21	29	11
3787	Brown Gray-DK	90	34	75	29	38	14
3790	Beige Gray-UL DK	164	63	137	53	68	26
3799	Pewter Gray-VY DK	17622	6937	14685	5781	7343	2891
3817	Celadon Green-LT	11	4	9	3	5	2

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3849	Teal Green-LT	4	2	3	2	2	1
3858	Rosewood-MD	13	4	11	3	5	2
3859	Rosewood-LT	517	202	431	168	215	84
3860	Cocoa	1408	553	1173	461	587	230
3861	Cocoa-LT	2095	824	1746	687	873	344
3862	Mocha Beige-DK	146	56	122	47	61	23
3863	Mocha Beige-MD	407	158	339	132	170	66
3864	Mocha Beige-LT	1696	666	1413	555	707	278
3866	Mocha Brown-UL VY LT	108	41	90	35	45	17

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
223	Shell Pink-LT	242	95	233	91	224	88
225	Shell Pink-UL VY LT	23	9	22	8	21	8
310	Black	2493	981	2397	943	2308	908
315	Antique Mauve-VY DK	795	312	764	300	736	289
316	Antique Mauve-MD	19	7	18	7	17	7
317	Pewter Gray	261	102	251	98	242	95
318	Steel Gray-LT	512	201	492	193	474	186
334	Baby Blue-MD	20	8	19	8	19	7
356	Terra Cotta-MD	6	2	6	2	5	2
370	Mustard-MD	3	1	3	1	3	1
371	Mustard	2	1	2	1	2	1
407	Desert Sand-DK	354	139	341	134	328	129
413	Pewter Gray -DK	174	68	167	65	161	63
414	Steel Gray-DK	471	185	453	178	436	171
415	Pearl Gray	699	275	672	264	647	255
451	Shell Gray-DK	520	204	500	197	481	189
452	Shell Gray-MD	767	302	737	290	710	279
453	Shell Gray-LT	1264	498	1216	478	1171	461
503	Blue Green-MD	20	8	19	8	19	7
535	Ash Gray-VY LT	254	99	244	96	235	92
543	Beige Brown-UL VY LT	162	63	156	61	150	59
610	Drab Brown-DK	78	30	75	29	73	28
612	Drab Brown-LT	80	31	77	30	74	29
613	Drab Brown-VY LT	76	30	73	28	71	27
632	Desert Sand-UL VY DK	25	9	24	9	23	9
640	Beige Gray-VY DK	413	162	397	156	383	150
645	Beaver Gray-VY DK	279	109	268	105	258	101
646	Beaver Gray-DK	21	8	20	8	19	7
648	Beaver Gray-LT	437	171	420	165	405	159
712	Cream	168	66	161	63	155	61
738	Tan-VY LT	4	1	4	1	4	1
758	Terra Cotta-VY LT	190	74	183	71	176	69
762	Pearl Gray-VY LT	12	4	12	4	11	4
778	Antique Mauve-VY LT	60	23	57	22	55	21
793	Cornflower Blue-MD	166	65	159	62	153	60
822	Beige Gray-LT	102	40	98	38	94	37
838	Beige Brown-VY DK	540	212	519	204	500	197
839	Beige Brown-DK	416	163	400	157	385	151
840	Beige Brown-MD	243	96	234	92	225	89
841	Beige Brown-LT	41	16	39	15	38	15
842	Beige Brown-VY LT	91	36	88	35	85	33
844	Beaver Brown-UL DK	1575	620	1515	596	1459	574
926	Gray Green-MD	9	3	8	3	8	3

927	Gray Green-LT	215	84	206	81	199	78
928	Gray Green-VY LT	384	151	370	145	356	140
931	Antique Blue-MD	621	244	597	235	575	226
932	Antique Blue-LT	30	12	28	11	27	11
938	Coffee Brown-UL DK	62	24	60	23	57	22
939	Navy Blue-VY DK	359	141	345	136	333	131
945	Tawny	58	22	55	21	53	21
950	Desert Sand-LT	140	55	134	53	129	51
3021	Brown Gray -VY DK	1118	440	1075	423	1035	407
3023	Brown Gray -LT	81	32	78	30	75	29
3024	Brown Gray -VY LT	803	315	772	303	743	292
3031	Mocha Brown-VY DK	1104	434	1061	417	1022	402
3032	Mocha Brown-MD	12	4	11	4	11	4
3033	Mocha Brown-VY LT	307	121	296	116	285	112
3041	Antique Violet-MD	194	76	187	73	180	71
3042	Antique Violet-LT	300	117	288	113	277	109
3064	Desert Sand	6	2	6	2	5	2
3072	Beaver Gray-VY LT	802	315	771	303	743	292
3371	Black Brown	4799	1889	4614	1817	4443	1749
3721	Shell Pink- DK	16	6	15	6	15	5
3722	Shell Pink- MD	73	28	70	27	67	26
3726	Antique Mauve-DK	263	103	253	99	243	95
3731	Dusty Rose-VY DK	16	6	15	6	15	5
3733	Dusty Rose	4	1	3	1	3	1
3740	Antique Violet-DK	99	39	96	37	92	36
3743	Antique Violet-VY LT	594	233	571	224	550	216
3752	Antique Blue-VY LT	6	2	6	2	6	2
3753	Antique Blue-UL VY LT	4	1	4	1	4	1
3768	Gray Green-DK	6	2	6	2	5	2
3772	Desert Sand-VY DK	174	68	167	65	161	63
3779	Terra Cotta-UL VY LT	27	10	26	10	25	9
3787	Brown Gray -DK	36	14	35	13	33	13
3790	Beige Gray-UL DK	66	25	63	24	61	23
3799	Pewter Gray -VY DK	7049	2775	6778	2668	6527	2569
3817	Celadon Green-LT	4	1	4	1	4	1
3849	Teal Green-LT	1	1	1	1	1	1
3858	Rosewood-MD	5	1	5	1	5	1
3859	Rosewood-LT	207	81	199	78	191	75
3860	Cocoa	563	221	541	213	521	205
3861	Cocoa-LT	838	330	806	317	776	305
3862	Mocha Beige-DK	58	22	56	21	54	21
3863	Mocha Beige-MD	163	63	156	61	151	59
3864	Mocha Beige-LT	678	266	652	256	628	247
3866	Mocha Brown-UL VY LT	43	17	42	16	40	15

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
223	Shell Pink-LT	216	85	202	79	189	74
225	Shell Pink- UL VY LT	21	8	19	7	18	7
310	Black	2226	876	2077	817	1947	766
315	Antique Mauve-VY DK	710	279	662	260	621	244
316	Antique Mauve-MD	17	6	16	6	15	6
317	Pewter Gray	233	91	218	85	204	80
318	Steel Gray-LT	457	179	427	167	400	157
334	Baby Blue-MD	18	7	17	7	16	6
356	Terra Cotta-MD	5	2	5	2	5	2
370	Mustard-MD	3	1	2	1	2	1

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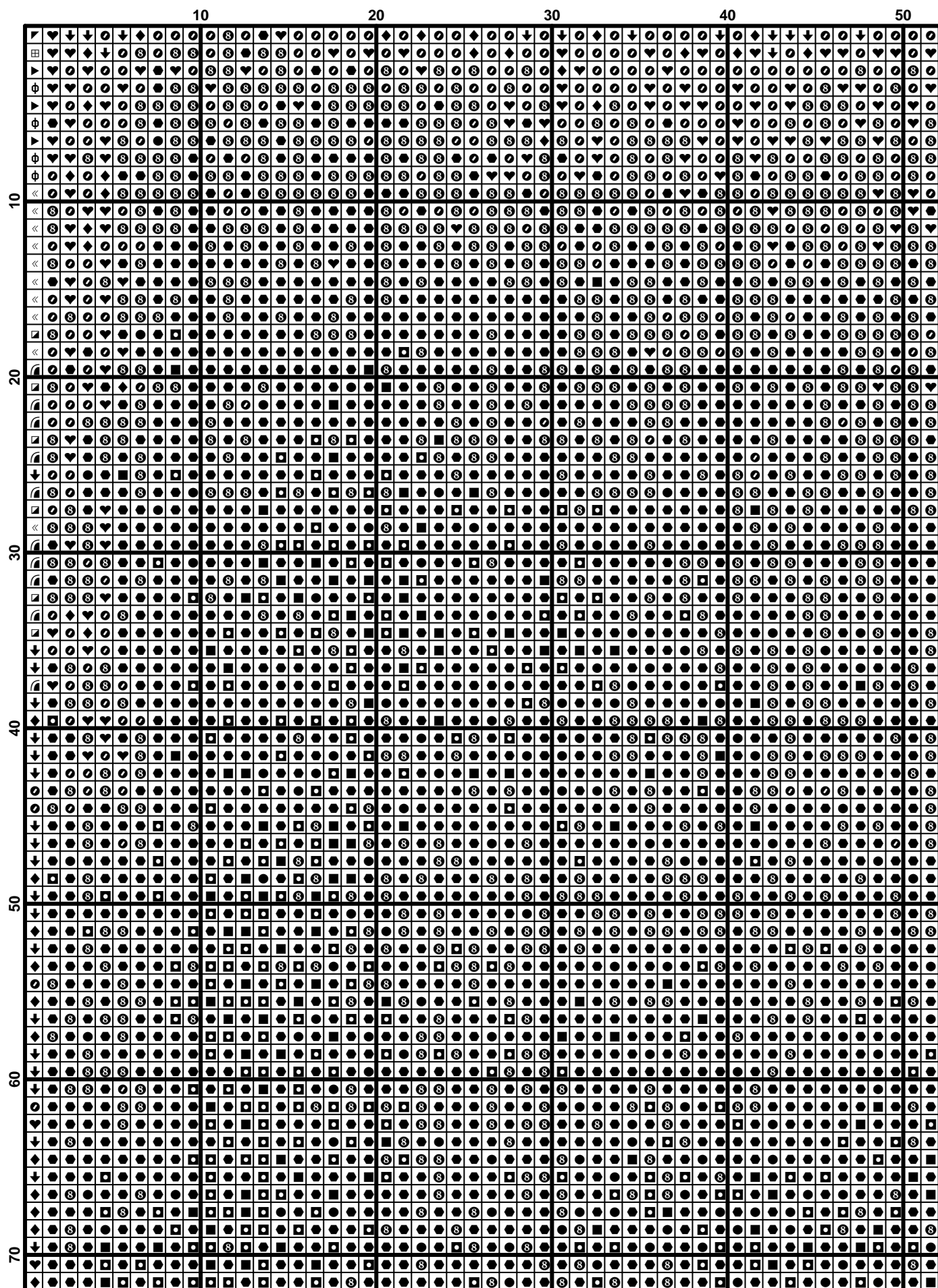
371	Mustard	2	1	2	1	2	1
407	Desert Sand-DK	316	124	295	116	277	109
413	Pewter Gray -DK	155	60	145	56	136	53
414	Steel Gray -DK	420	165	392	154	368	145
415	Pearl Gray	624	246	583	229	546	215
451	Shell Gray-DK	464	183	433	170	406	160
452	Shell Gray-MD	685	269	639	251	599	236
453	Shell Gray-LT	1129	444	1054	415	988	389
503	Blue Green-MD	18	7	17	7	16	6
535	Ash Gray-VY LT	227	89	212	83	199	78
543	Beige Brown-UL VY LT	145	57	135	53	127	50
610	Drab Brown-DK	70	27	65	25	61	24
612	Drab Brown-LT	71	28	67	26	62	24
613	Drab Brown-VY LT	68	26	64	25	60	23
632	Desert Sand-UL VY DK	23	8	21	8	20	7
640	Beige Gray-VY DK	369	145	344	135	323	127
645	Beaver Gray-VY DK	249	98	232	91	218	86
646	Beaver Gray-DK	19	7	17	7	16	6
648	Beaver Gray-LT	390	153	364	143	341	134
712	Cream	150	59	140	55	131	51
738	Tan-VY LT	4	1	4	1	3	1
758	Terra Cotta-VY LT	170	66	158	62	149	58
762	Pearl Gray-VY LT	11	4	10	4	10	3
778	Antique Mauve-VY LT	53	21	50	19	47	18
793	Cornflower Blue-MD	148	58	138	54	129	51
822	Beige Gray-LT	91	35	85	33	79	31
838	Beige Brown-VY DK	482	190	450	177	422	166
839	Beige Brown-DK	372	146	347	136	325	128
840	Beige Brown-MD	217	86	203	80	190	75
841	Beige Brown-LT	37	14	34	13	32	12
842	Beige Brown-VY LT	82	32	76	30	71	28
844	Beaver Brown-UL DK	1407	554	1313	517	1231	484
926	Gray Green-MD	8	3	7	2	7	2
927	Gray Green-LT	192	75	179	70	168	66
928	Gray Green-VY LT	343	135	320	126	300	118
931	Antique Blue-MD	554	218	517	203	485	191
932	Antique Blue-LT	26	10	25	10	23	9
938	Coffee Brown-UL DK	55	21	52	20	48	19
939	Navy Blue-VY DK	321	126	299	118	281	110
945	Tawny	51	20	48	19	45	17
950	Desert Sand-LT	125	49	116	46	109	43
3021	Brown Gray -VY DK	998	393	932	367	874	344
3023	Brown Gray -LT	73	28	68	26	64	25
3024	Brown Gray -VY LT	717	282	669	263	627	246
3031	Mocha Brown-VY DK	986	388	920	362	862	339
3032	Mocha Brown-MD	10	4	10	4	9	3
3033	Mocha Brown-VY LT	275	108	256	101	240	95
3041	Antique Violet-MD	174	68	162	64	152	60
3042	Antique Violet-LT	267	105	250	98	234	92
3064	Desert Sand	5	2	5	2	5	2
3072	Beaver Gray-VY LT	716	282	668	263	627	246
3371	Black Brown	4285	1687	3999	1574	3749	1476
3721	Shell Pink- DK	14	5	13	5	12	5
3722	Shell Pink- MD	65	25	61	23	57	22
3726	Antique Mauve-DK	235	92	219	86	205	80
3731	Dusty Rose-VY DK	14	5	13	5	12	5
3733	Dusty Rose	3	1	3	1	3	1
3740	Antique Violet-DK	89	35	83	32	78	30
3743	Antique Violet-VY LT	530	208	495	194	464	182

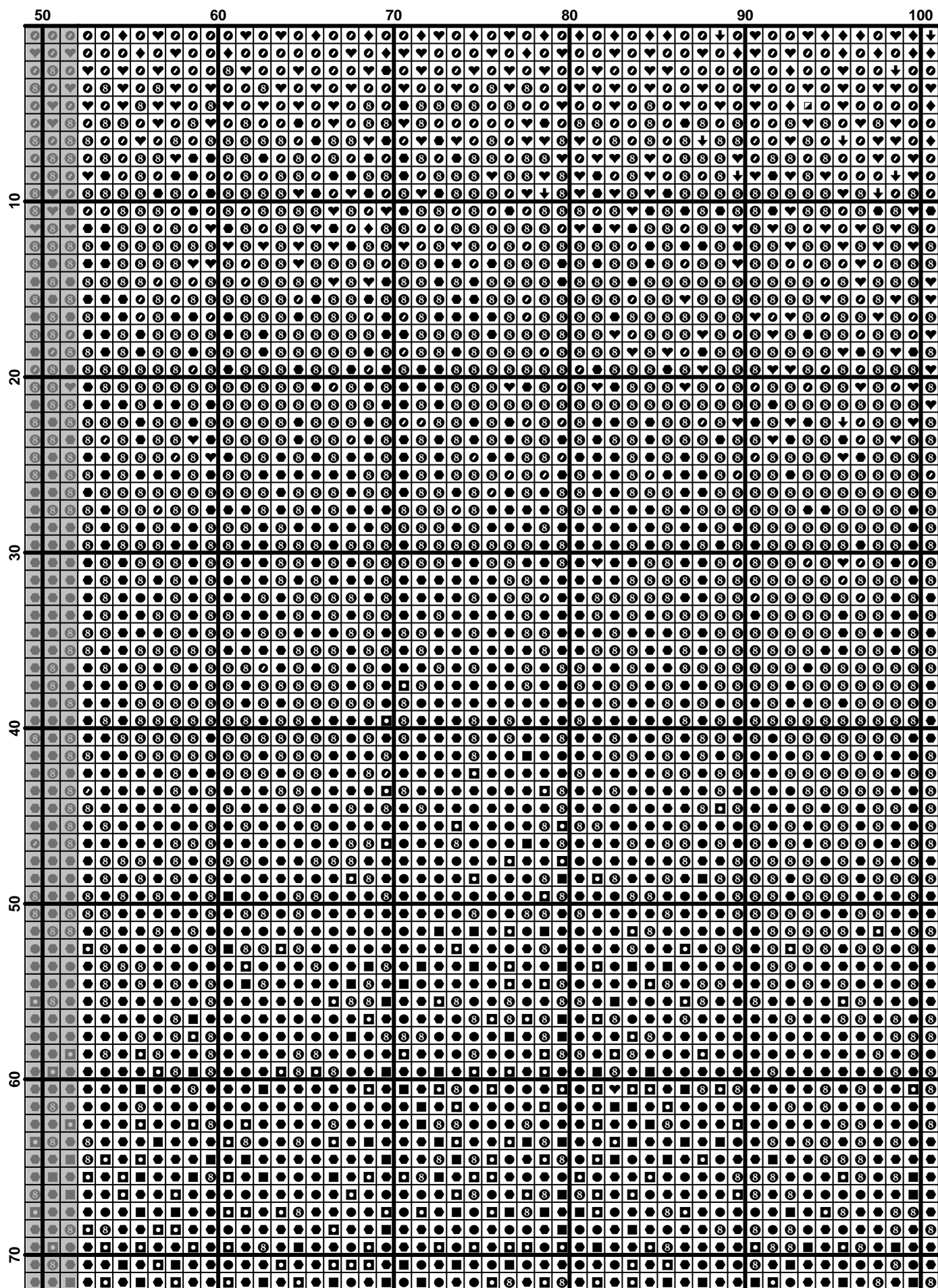
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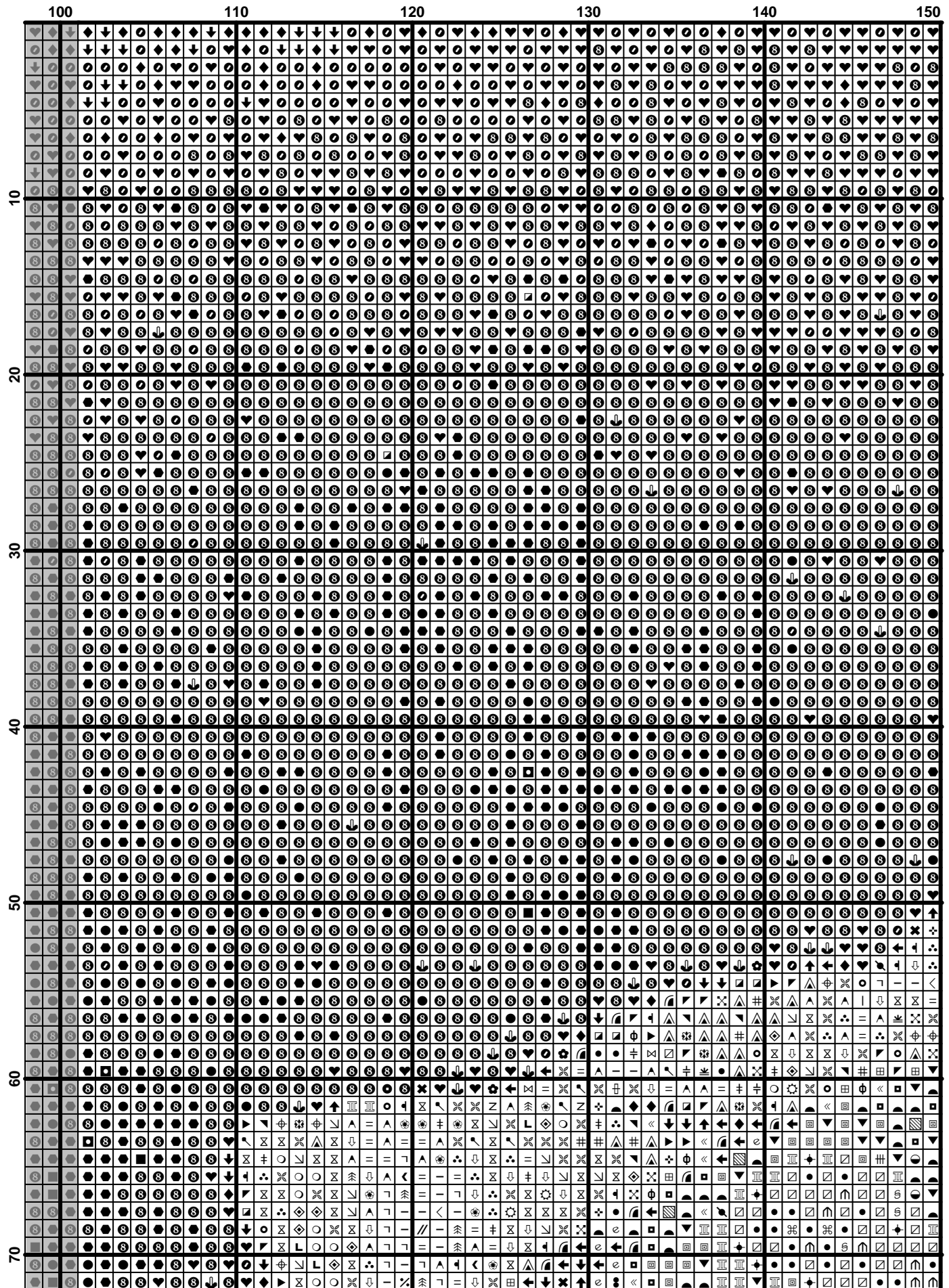
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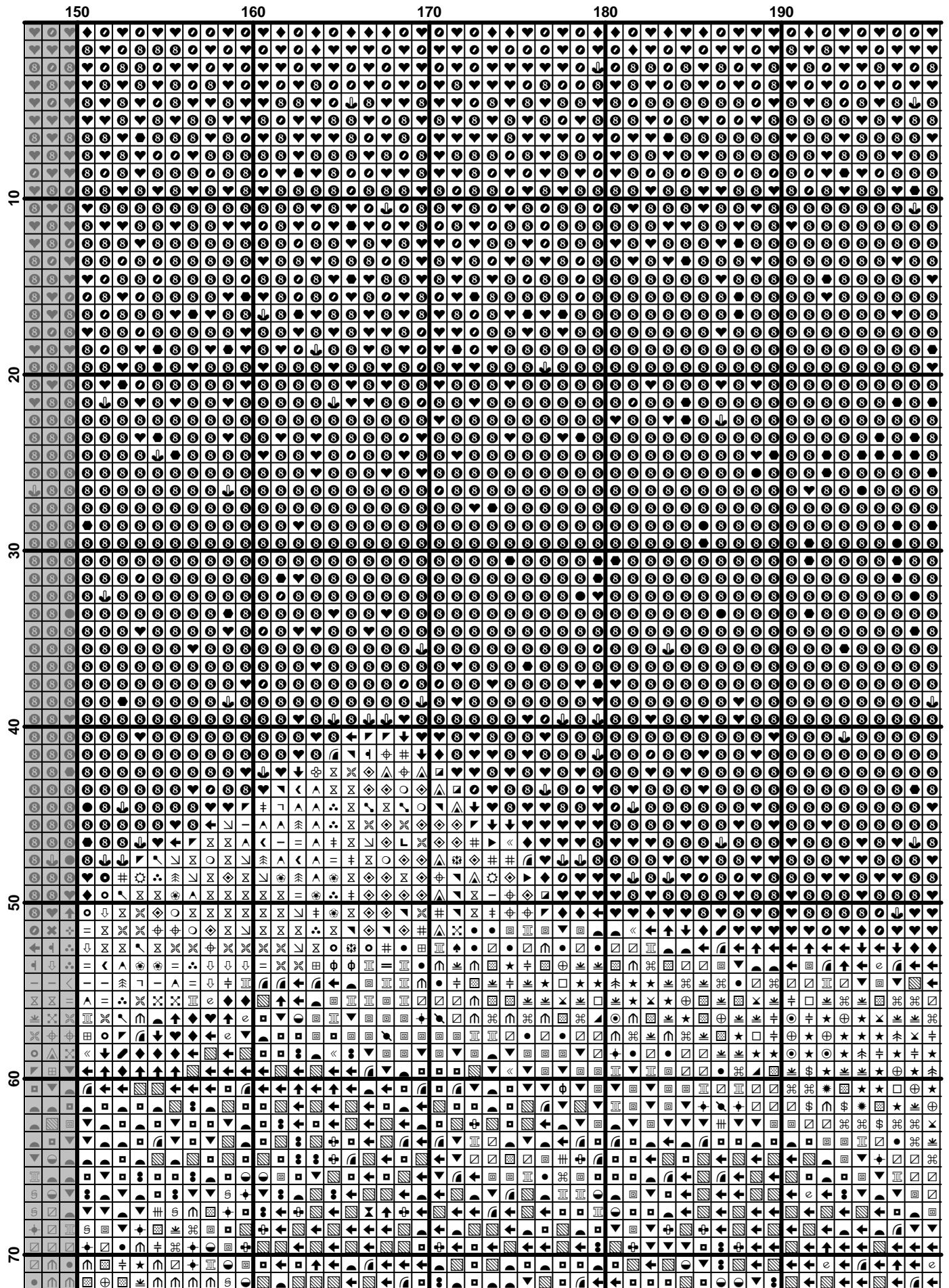
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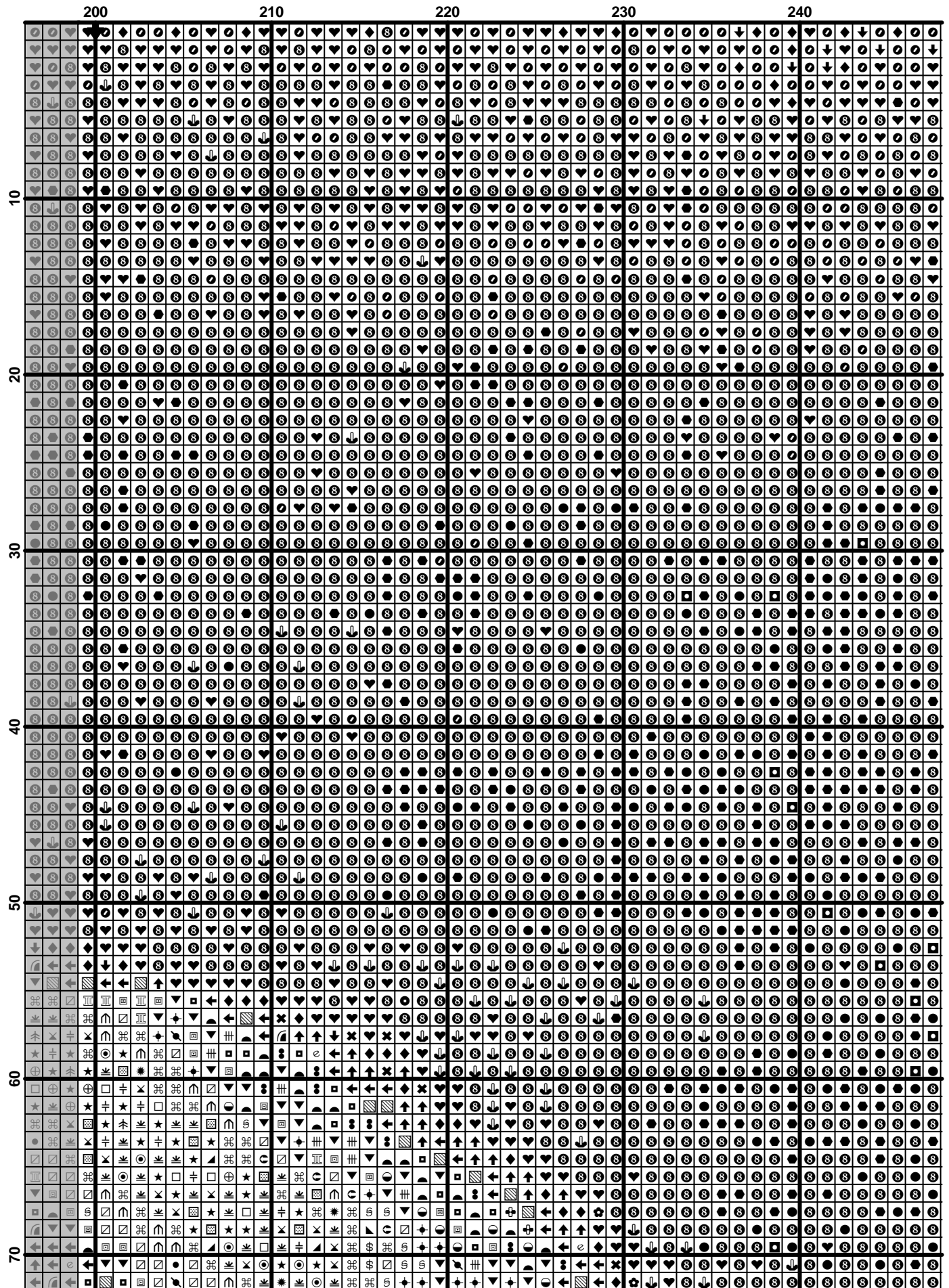
3752	Antique Blue-VY LT	6	2	5	2	5	2
3753	Antique Blue-UL VY LT	4	1	4	1	3	1
3768	Gray Green-DK	5	2	5	2	5	2
3772	Desert Sand-VY DK	155	60	145	56	136	53
3779	Terra Cotta-UL VY LT	24	9	23	8	21	8
3787	Brown Gray -DK	32	12	30	11	28	11
3790	Beige Gray-UL DK	59	23	55	21	51	20
3799	Pewter Gray -VY DK	6294	2478	5874	2312	5507	2168
3817	Celadon Green-LT	4	1	4	1	3	1
3849	Teal Green-LT	1	1	1	1	1	1
3858	Rosewood-MD	5	1	4	1	4	1
3859	Rosewood-LT	185	72	172	67	161	63
3860	Cocoa	503	197	469	184	440	173
3861	Cocoa-LT	748	294	698	275	655	258
3862	Mocha Beige-DK	52	20	49	19	46	17
3863	Mocha Beige-MD	145	57	136	53	127	50
3864	Mocha Beige-LT	606	238	565	222	530	208
3866	Mocha Brown-UL VY LT	39	15	36	14	34	13

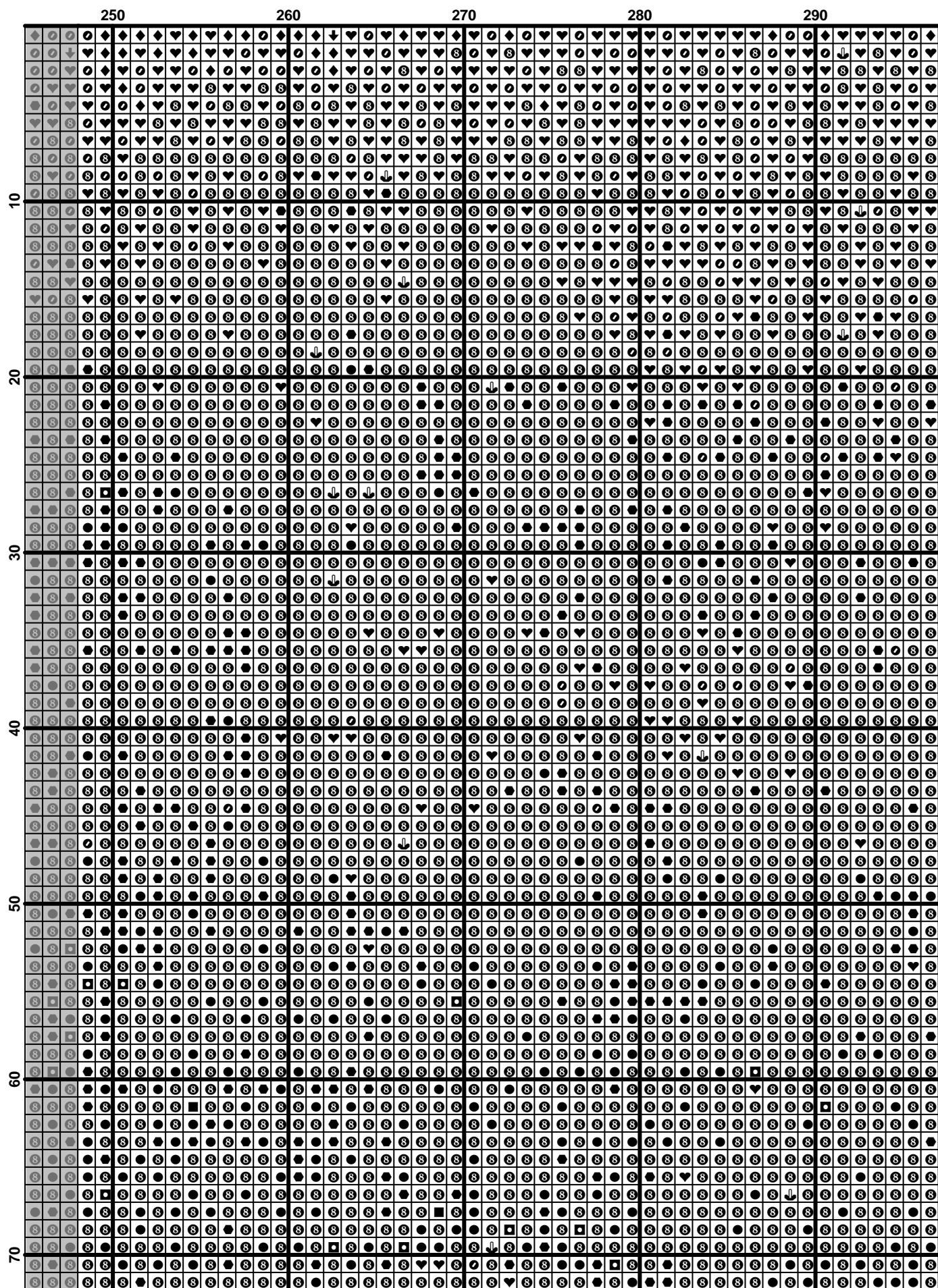


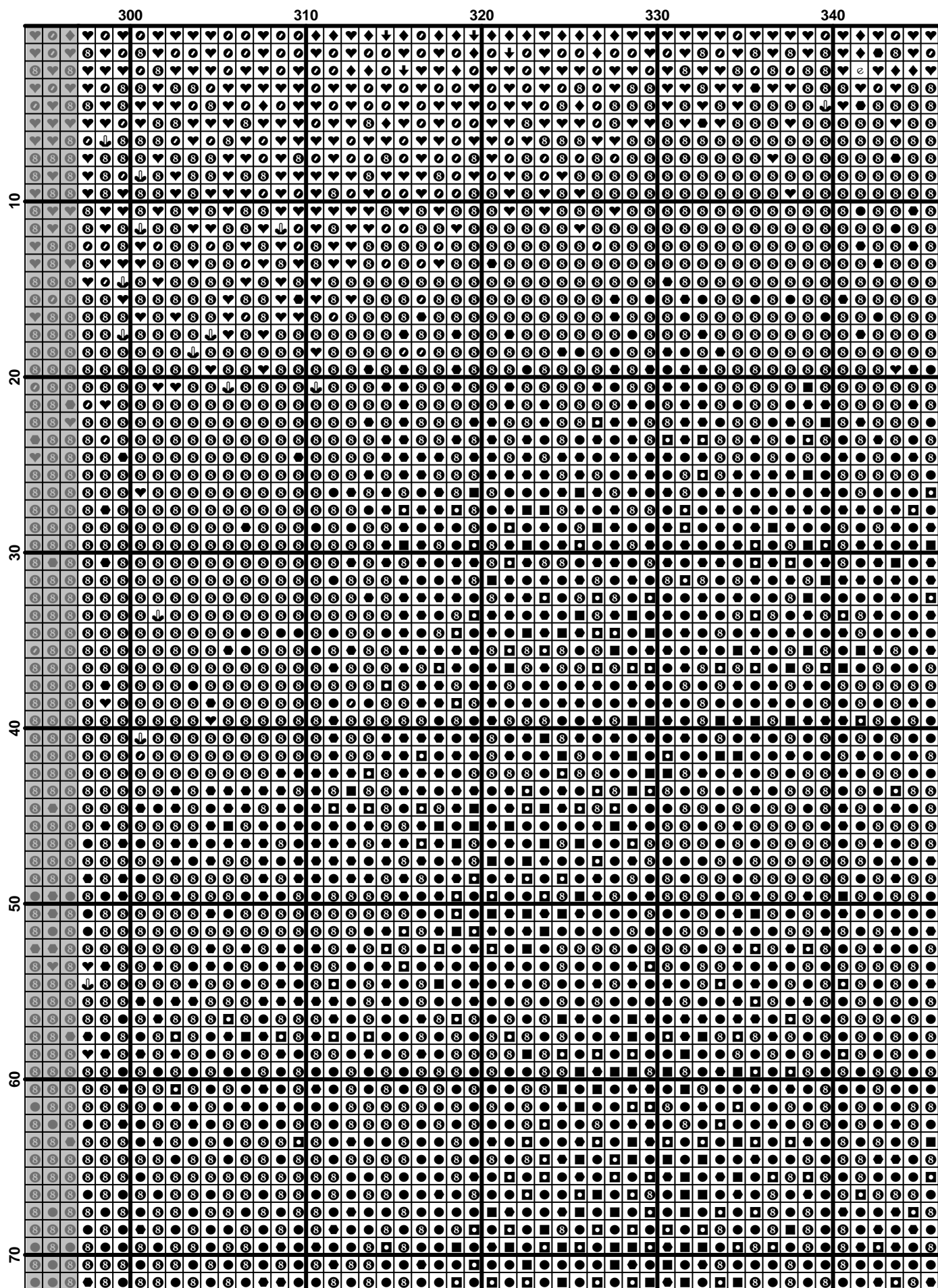


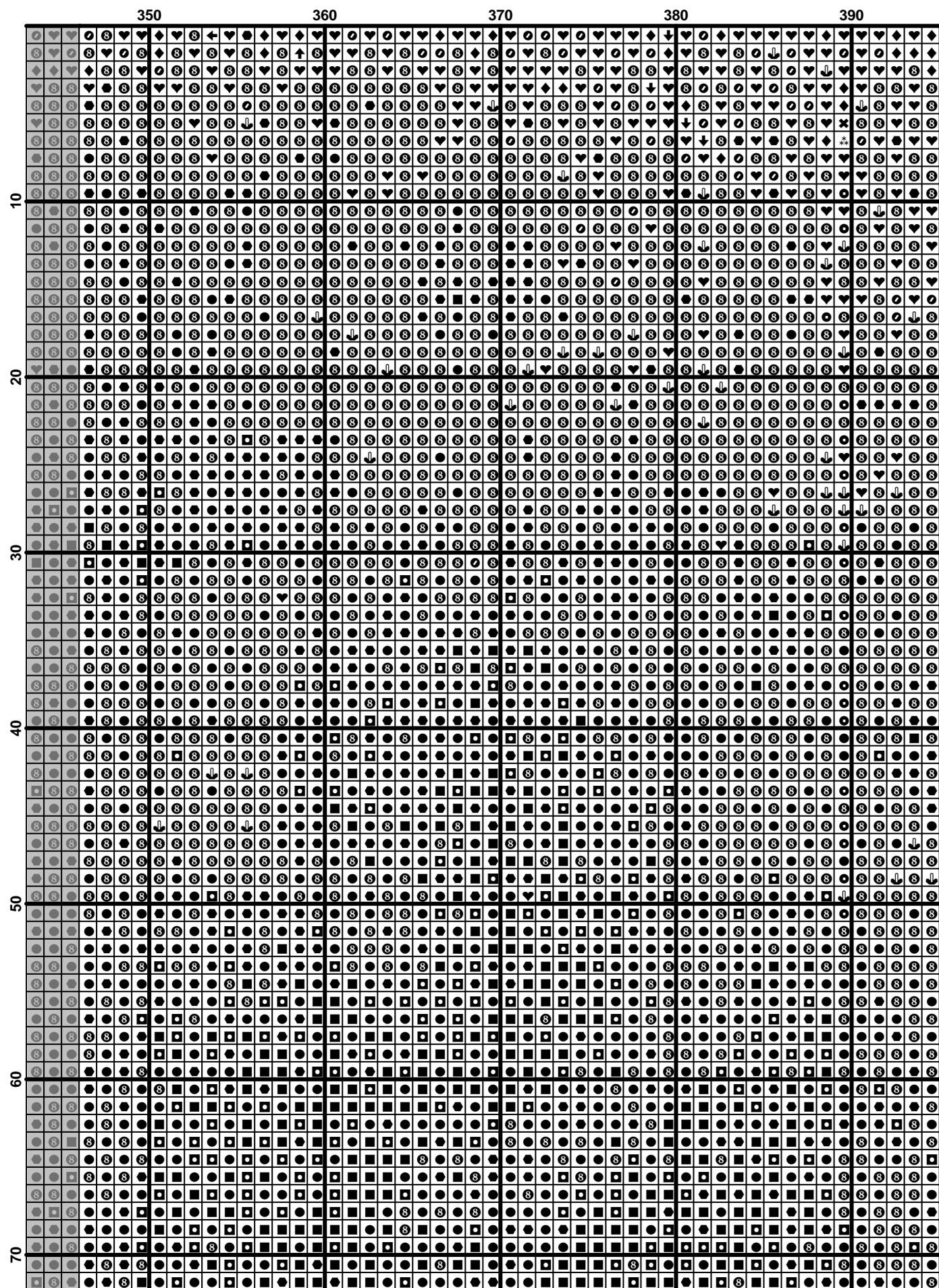


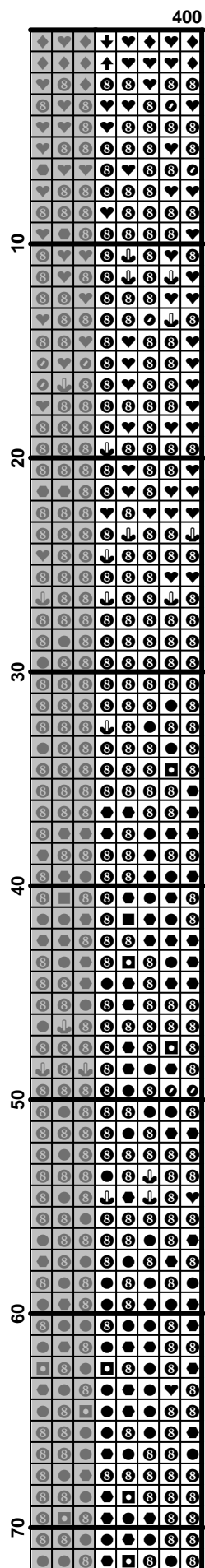


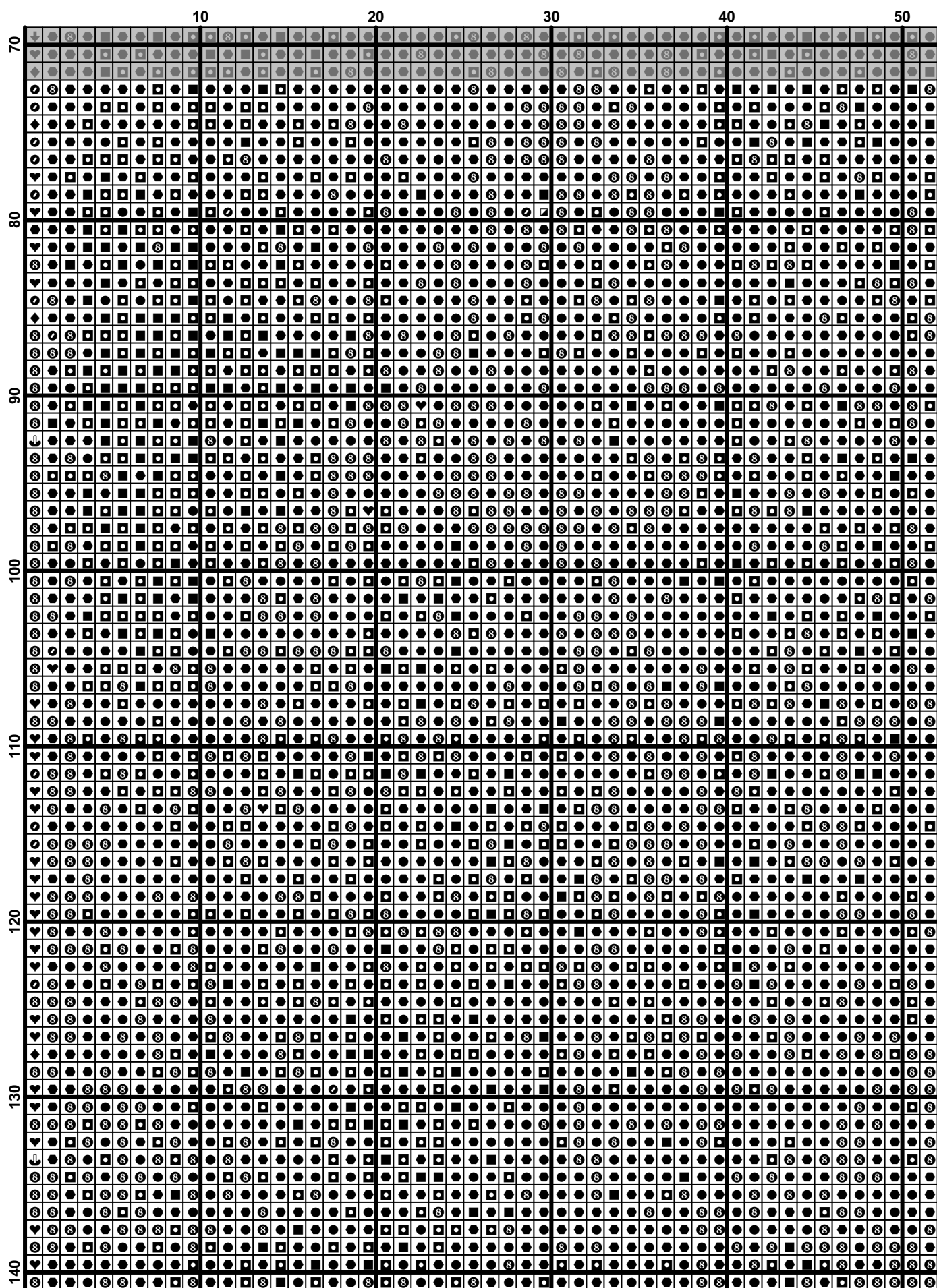


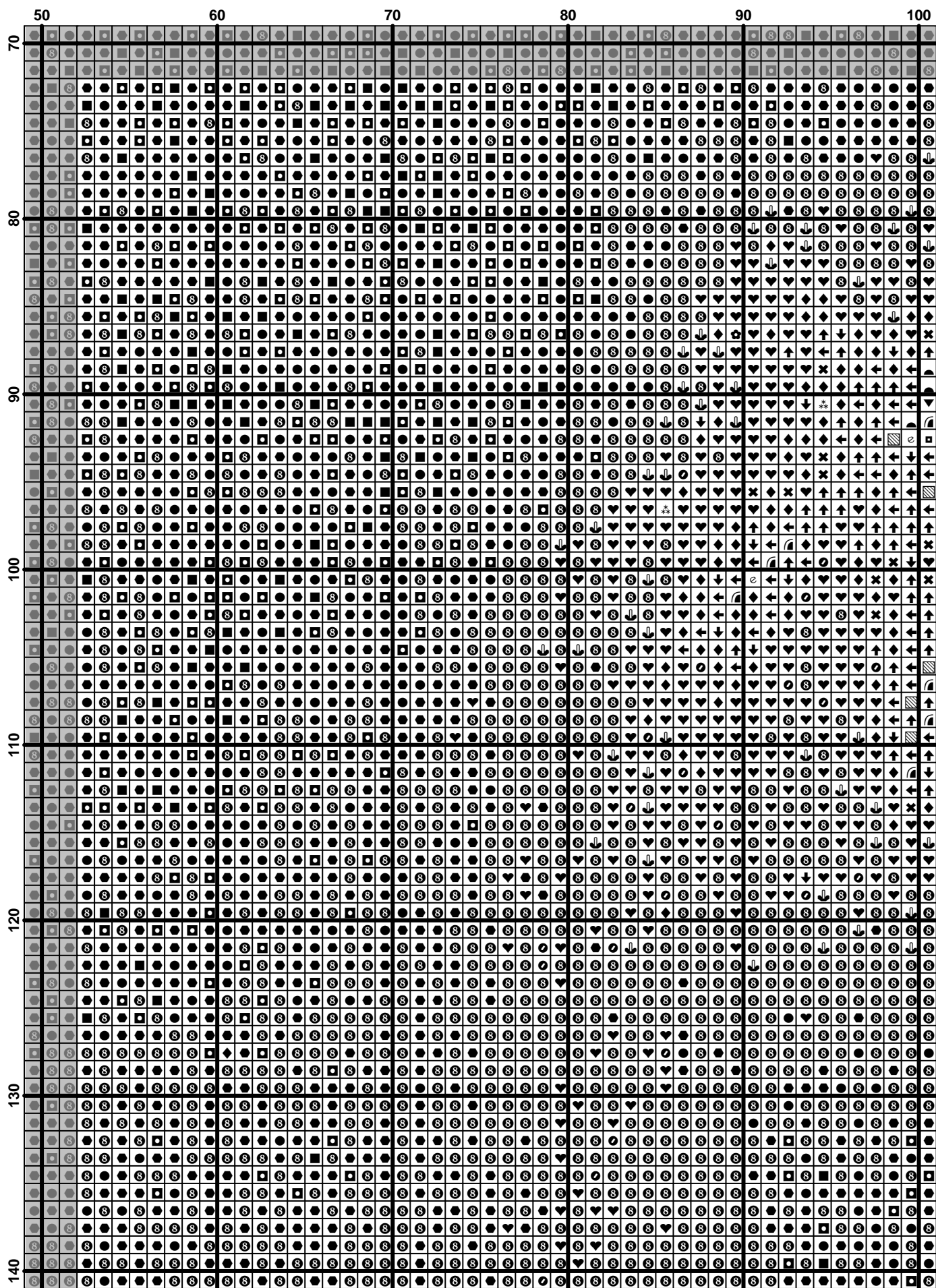


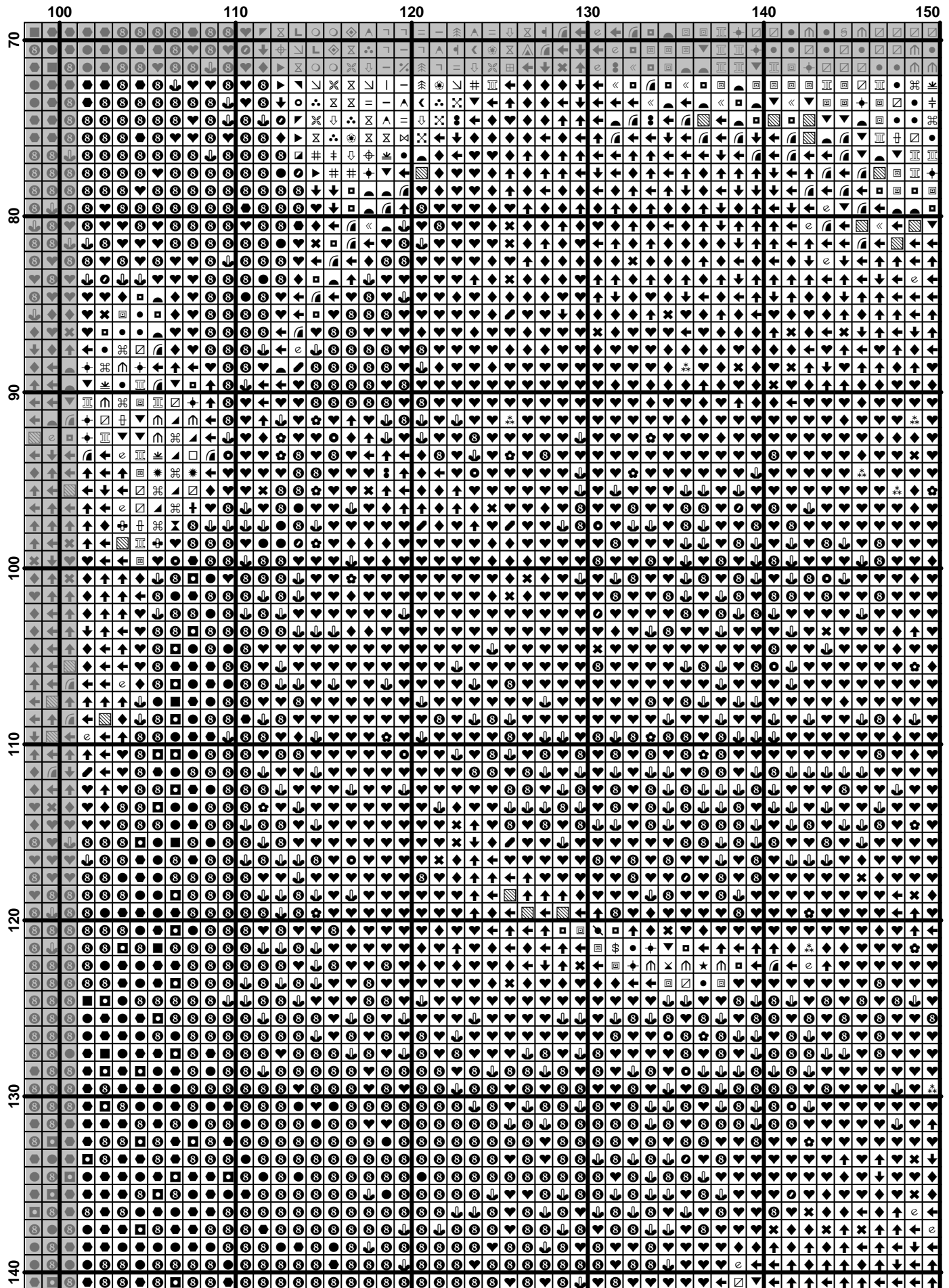


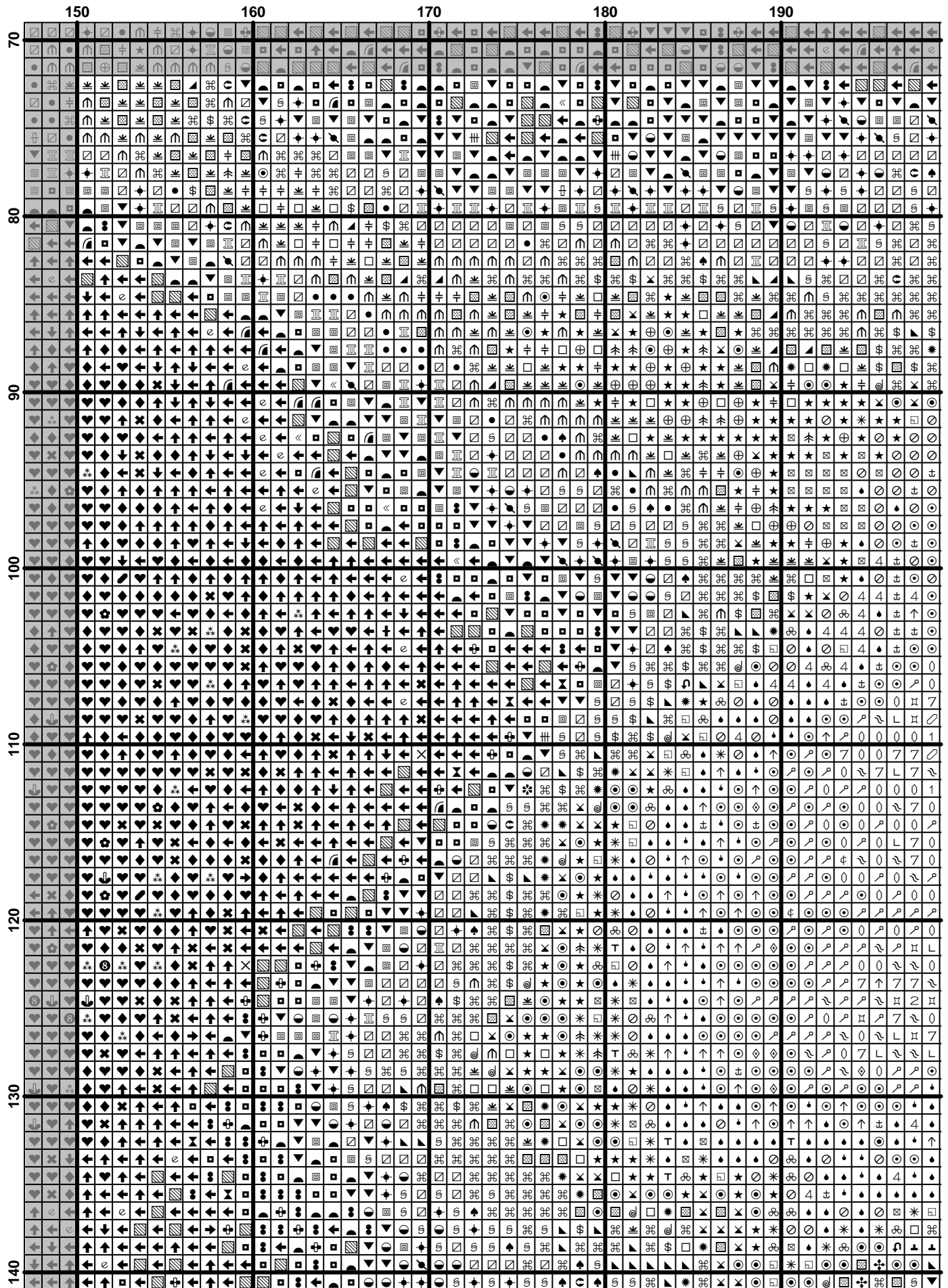




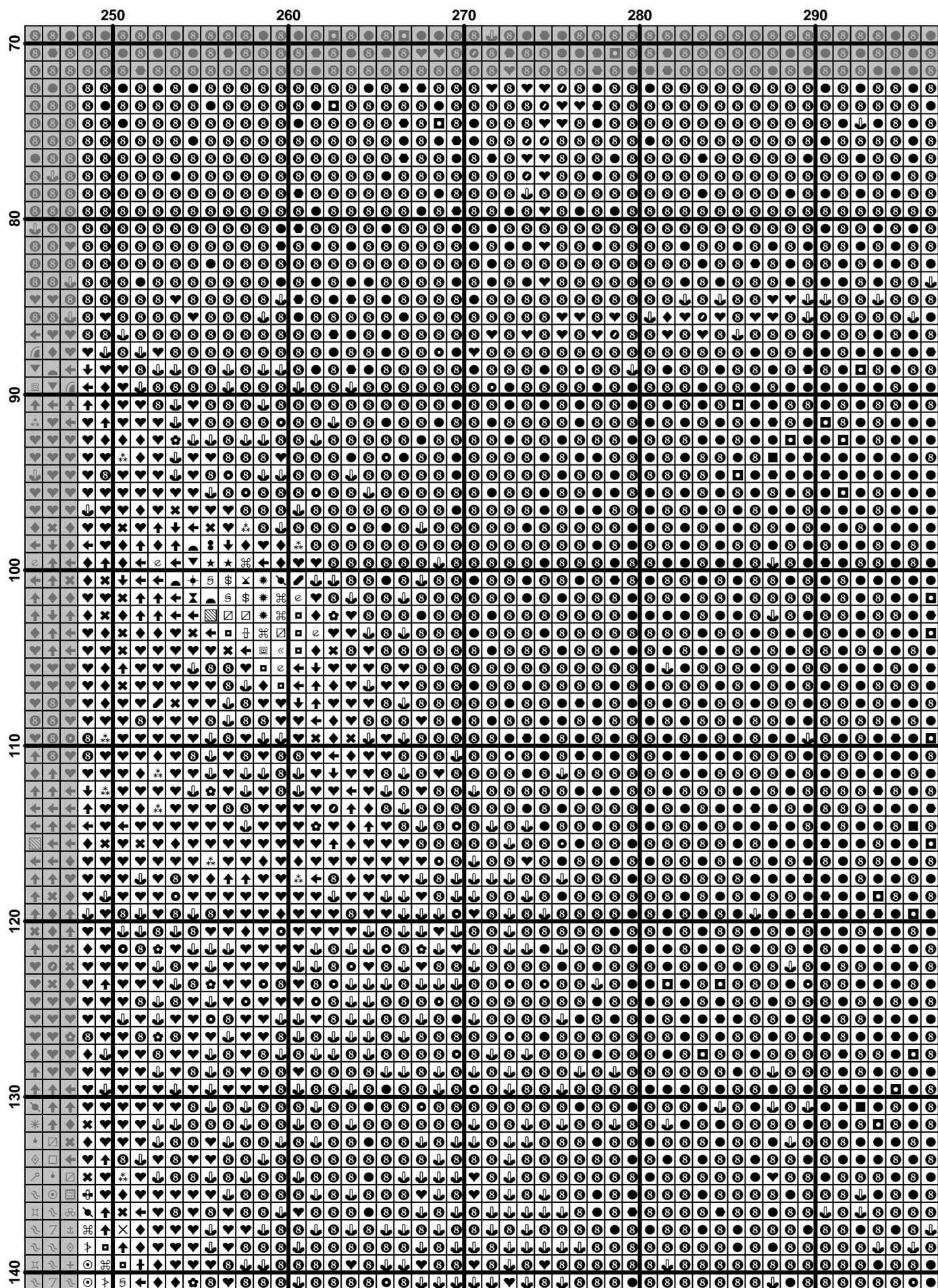


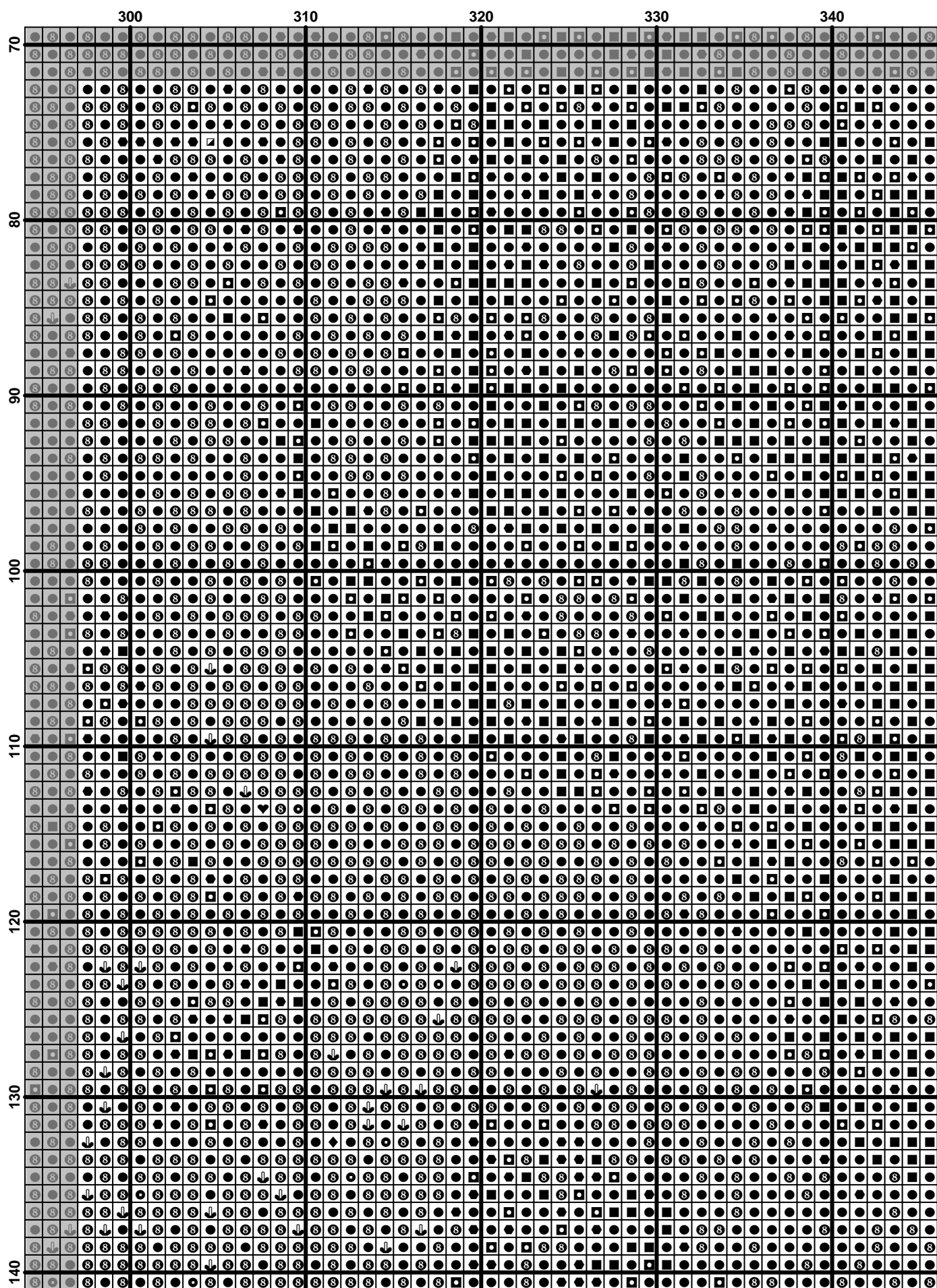


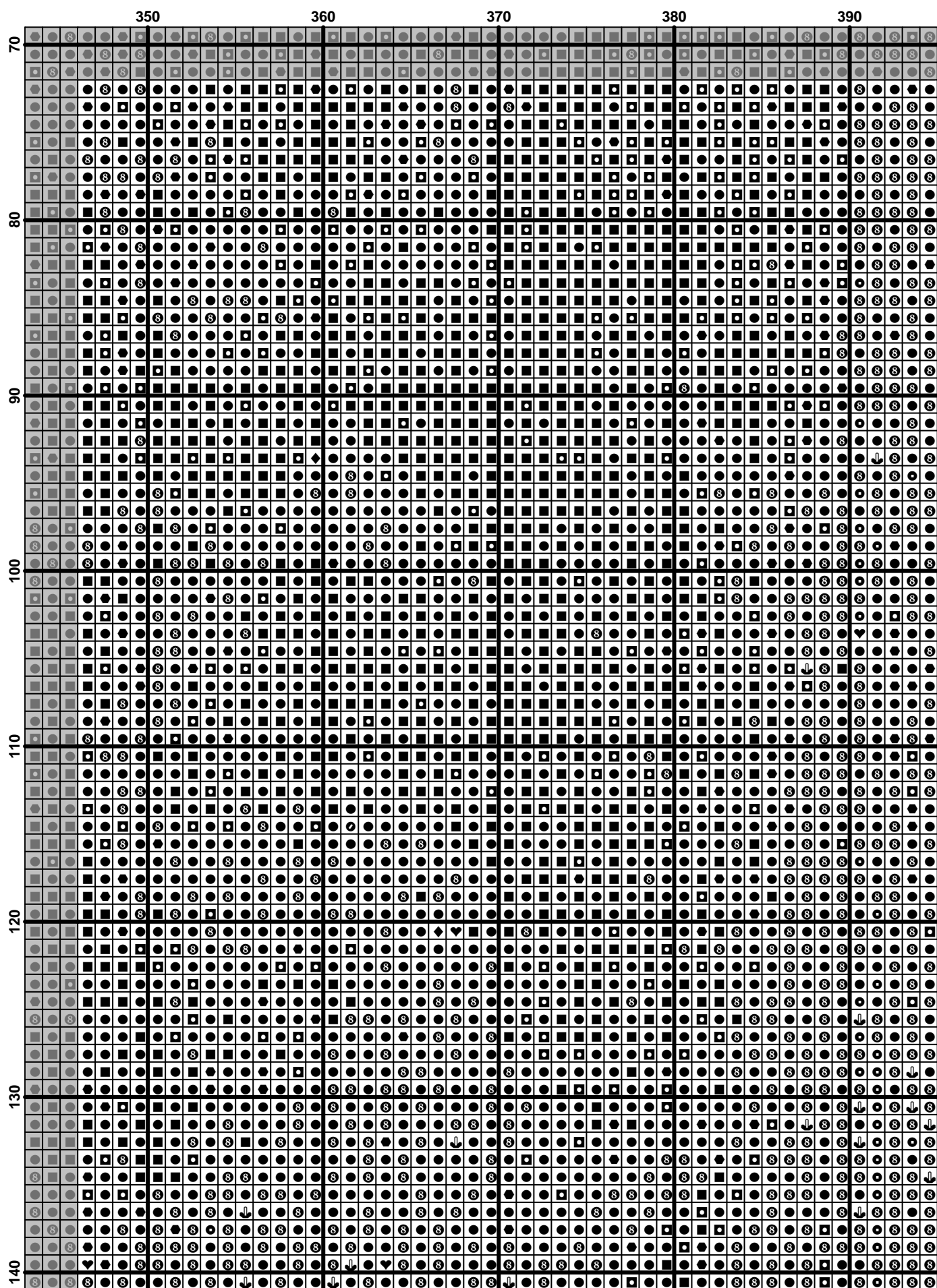


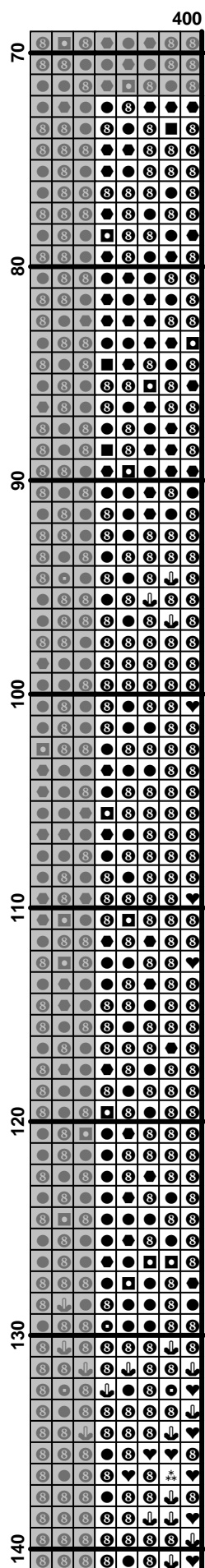


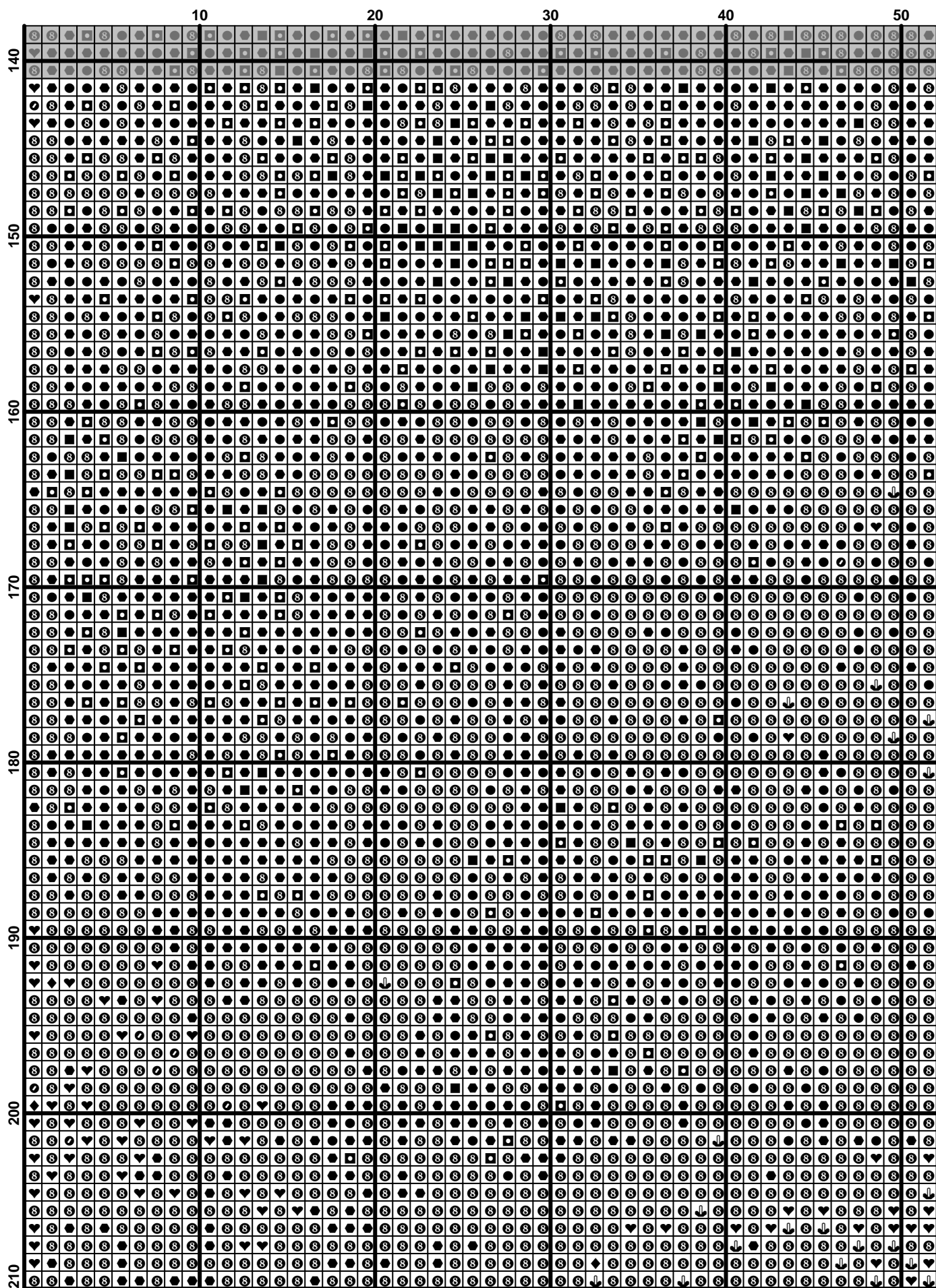
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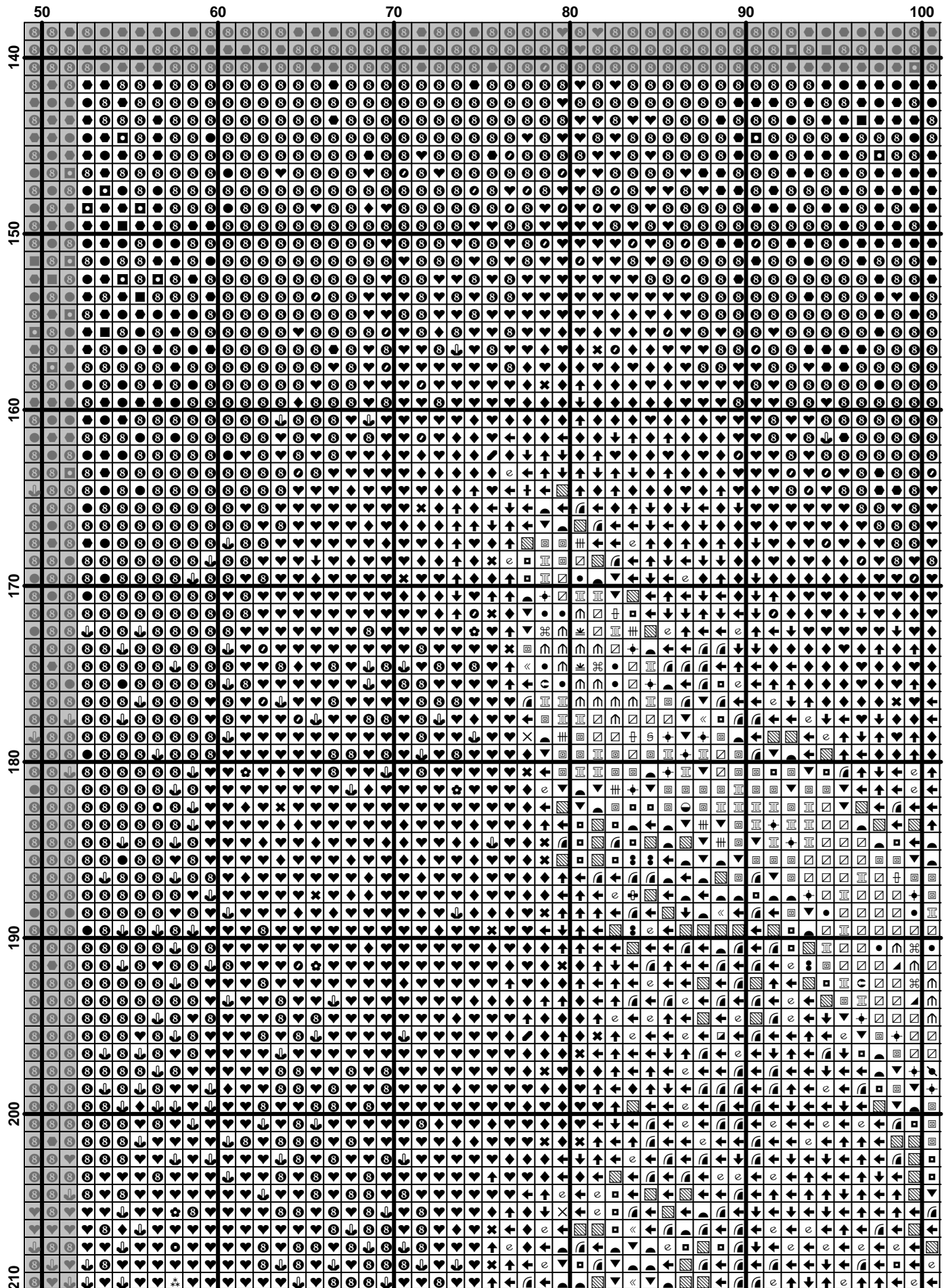


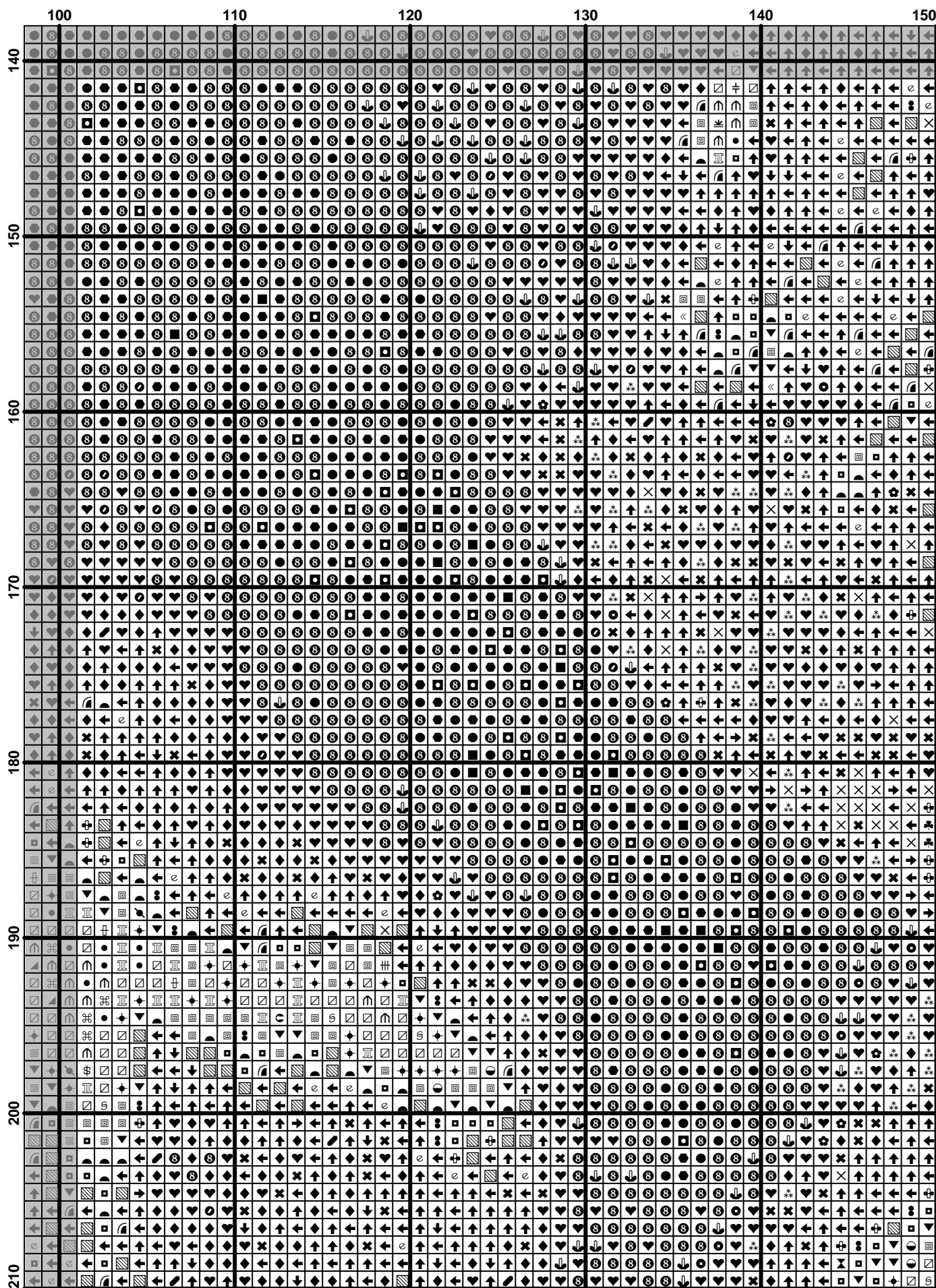


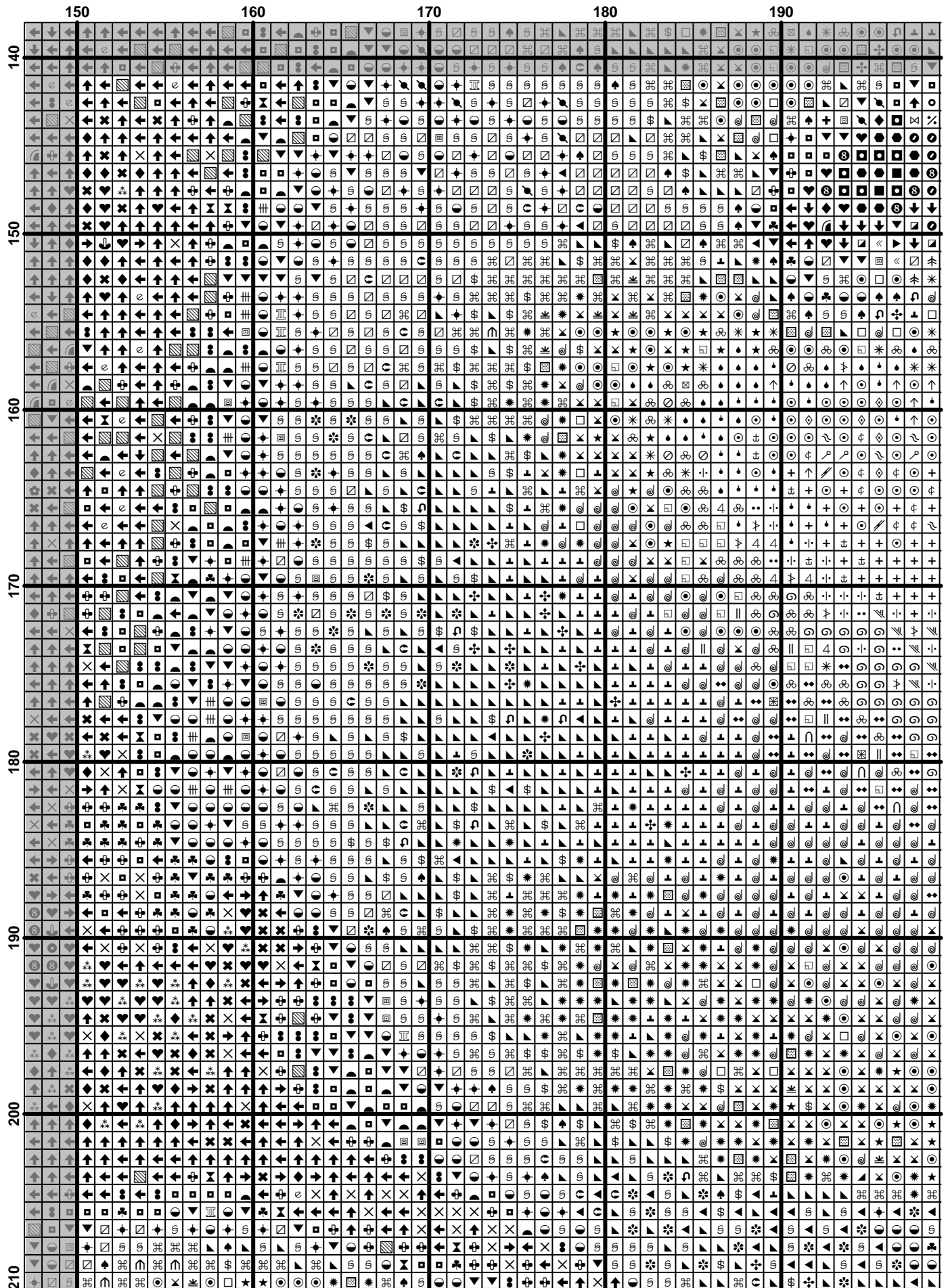


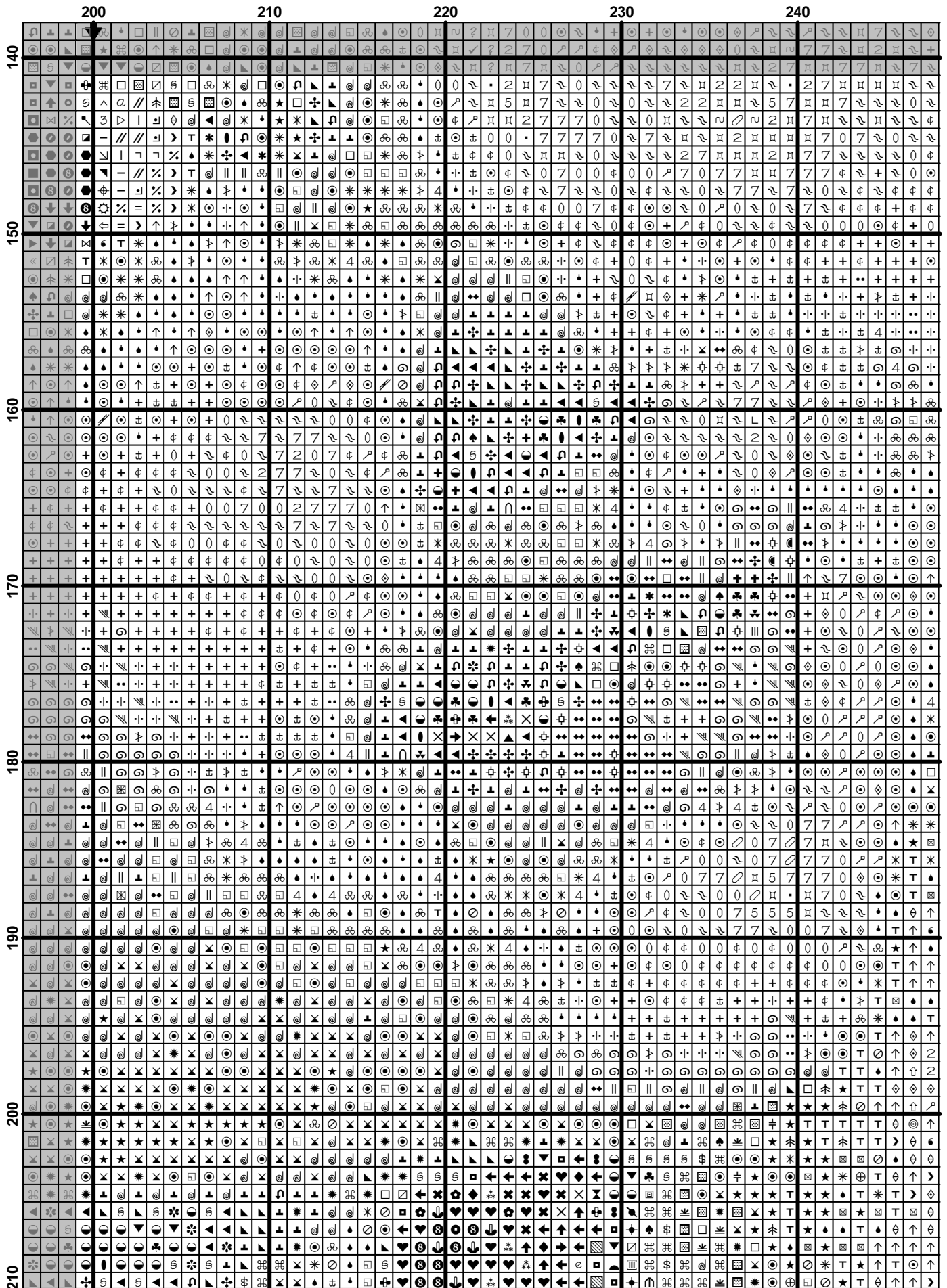




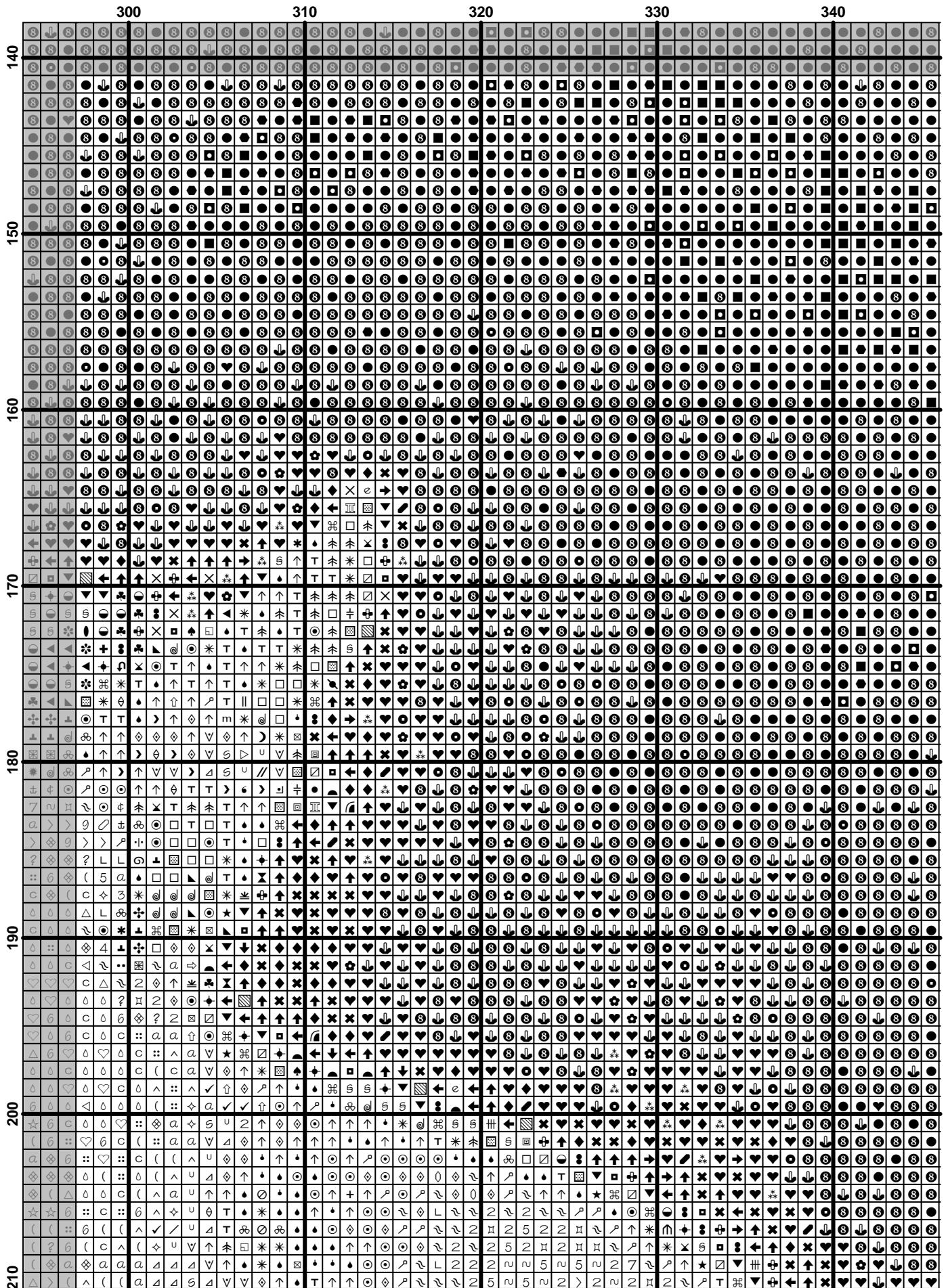


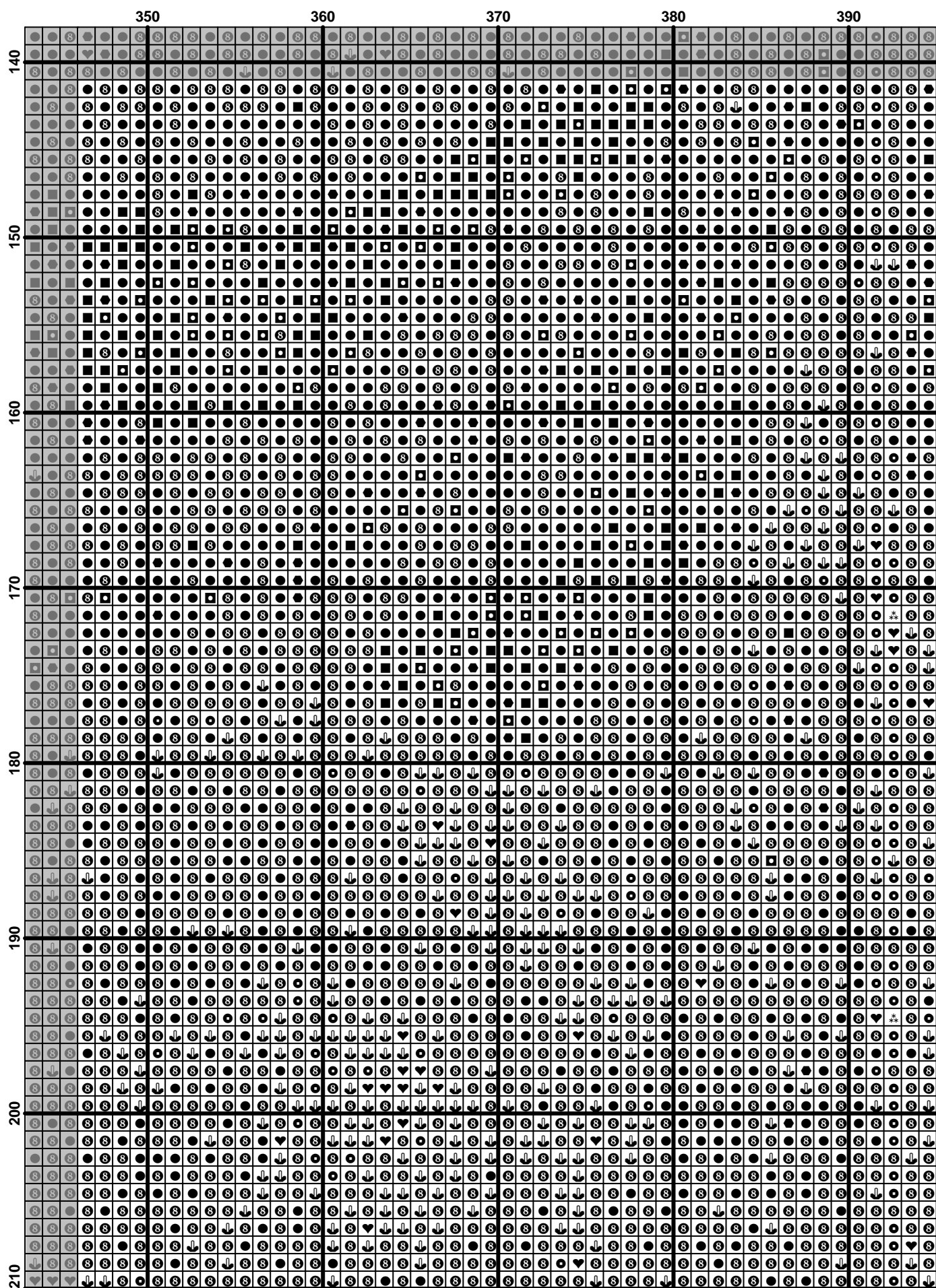


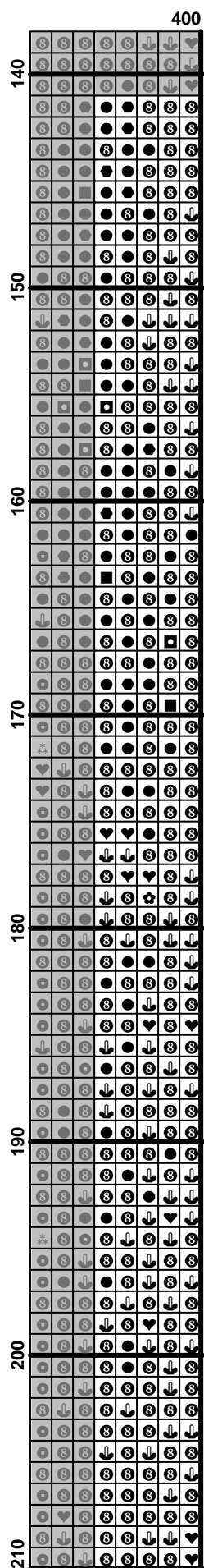


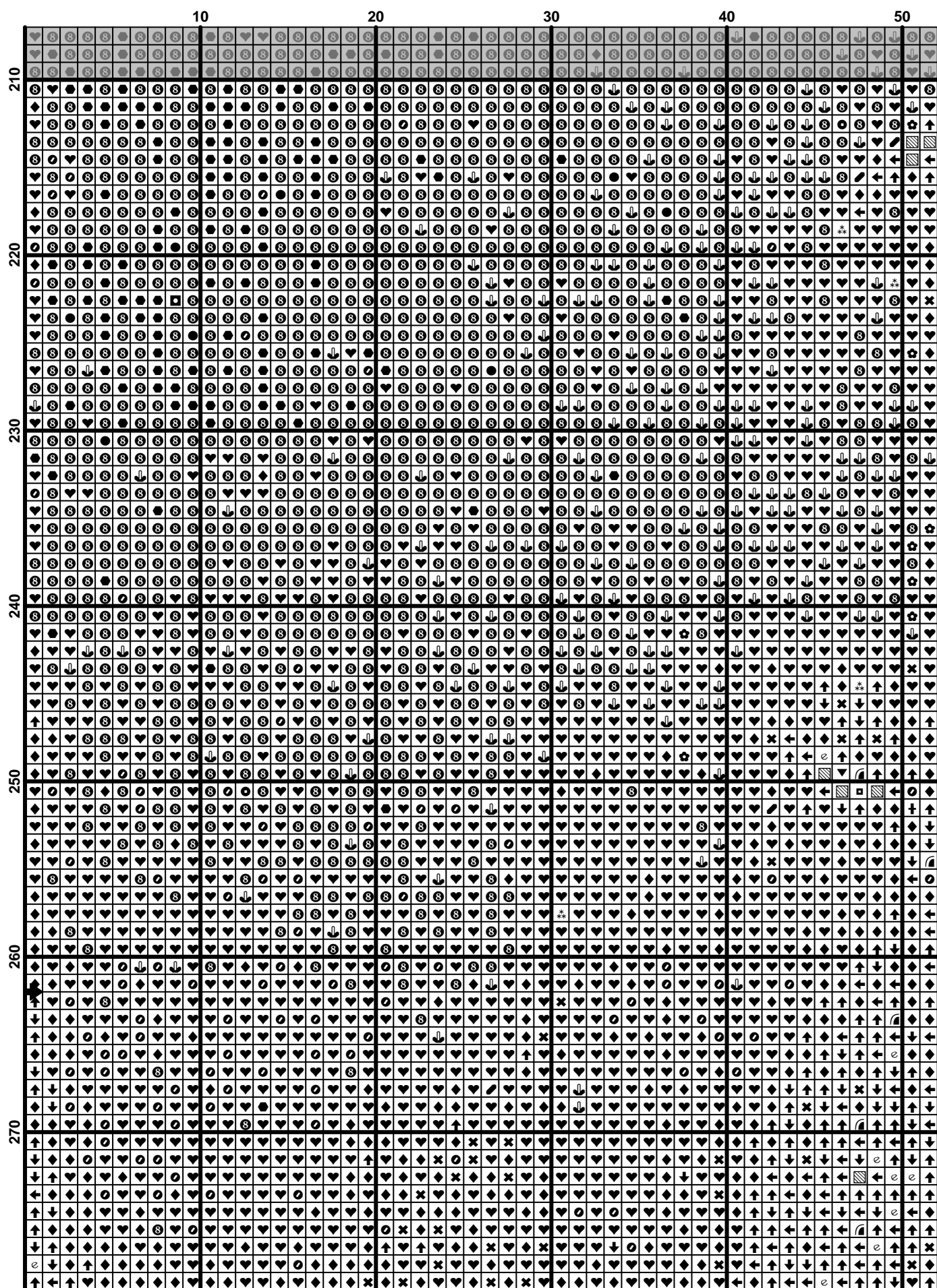


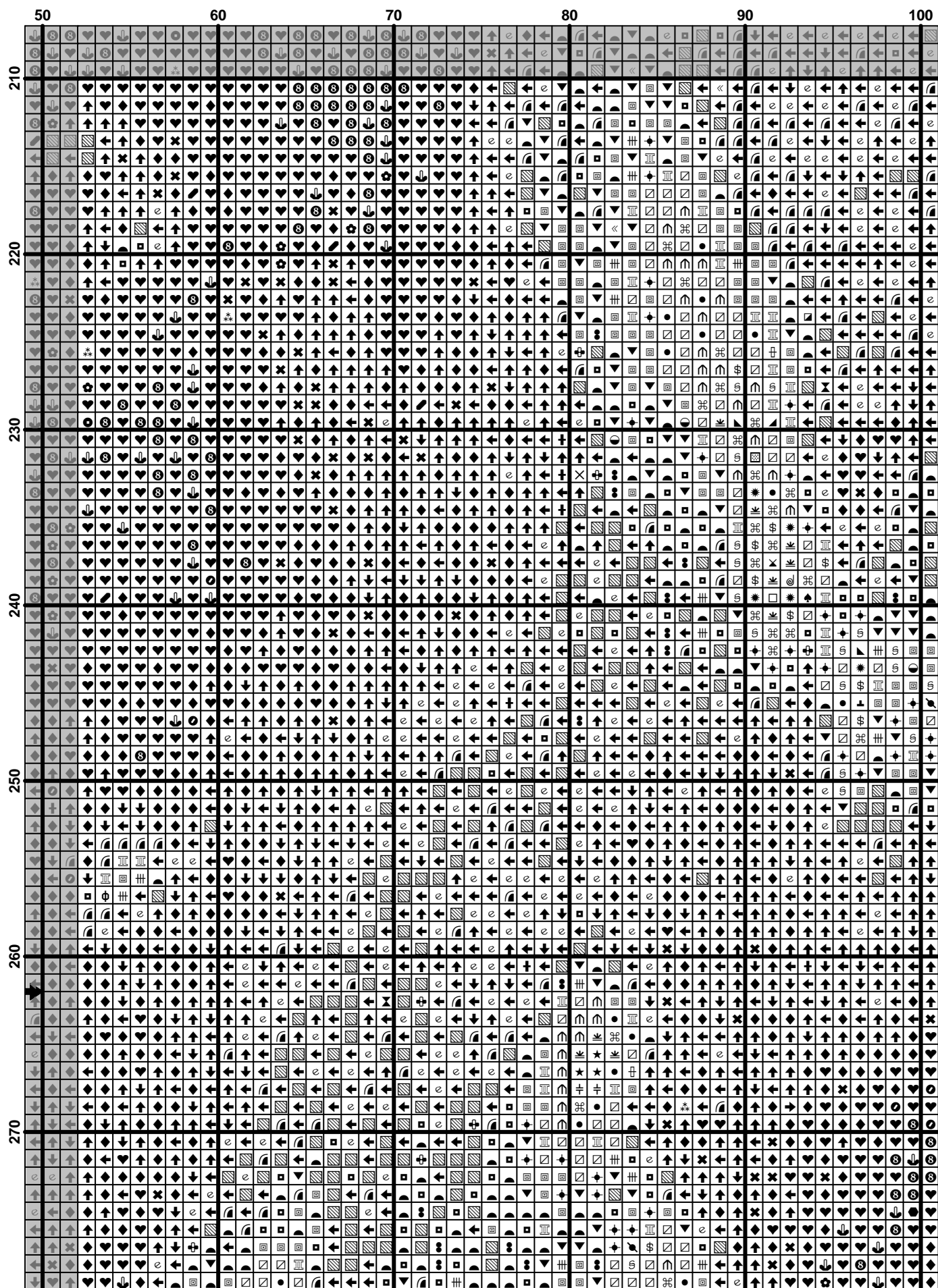
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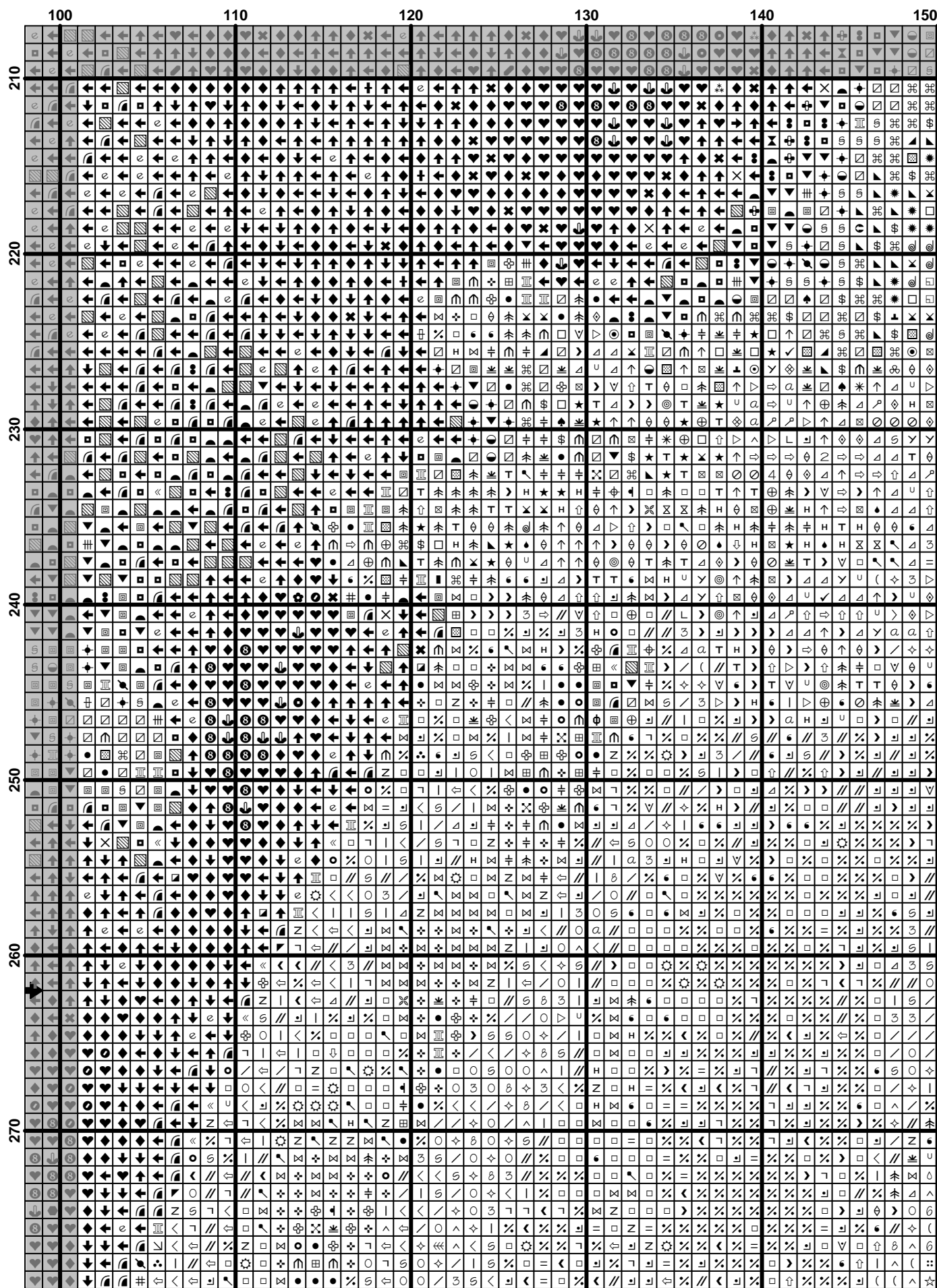










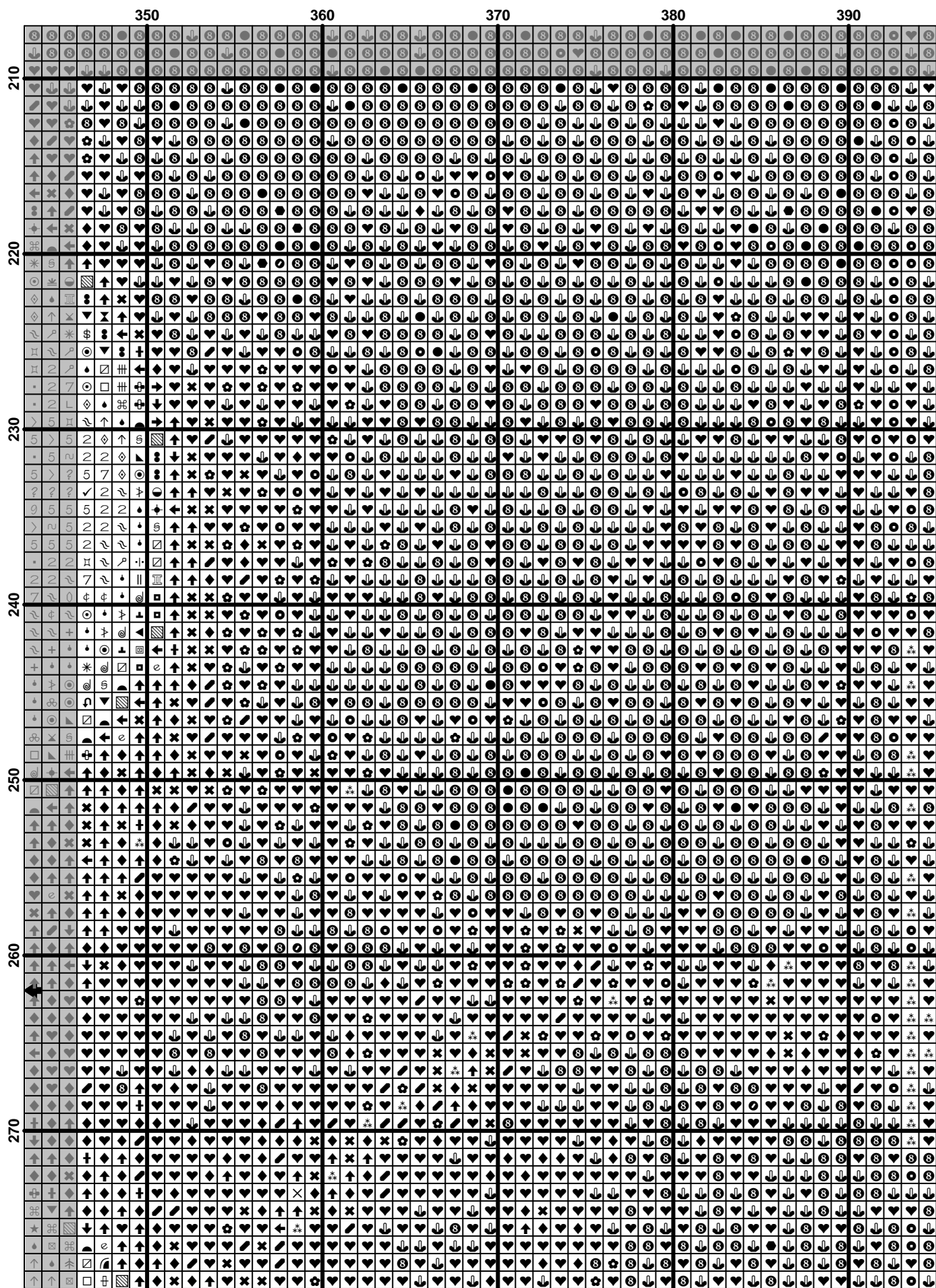


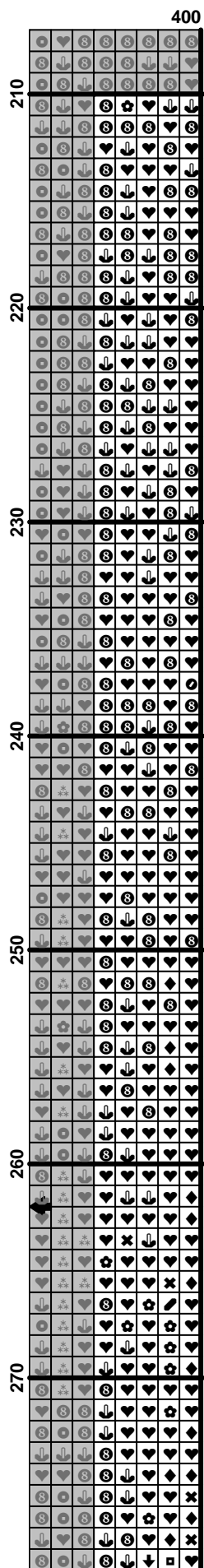
$$(40) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

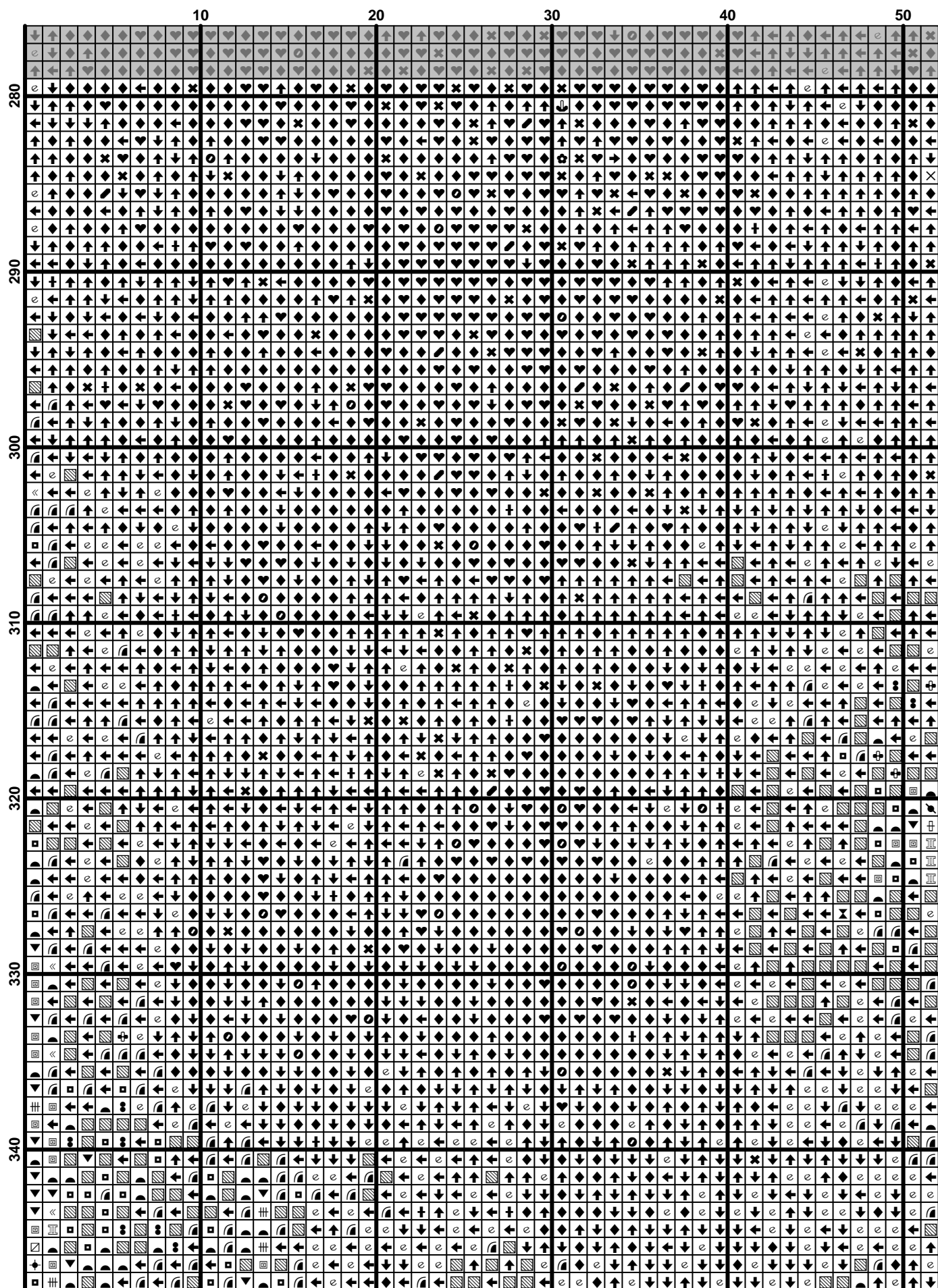
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210					
220					
230					
240					
250					
260					
270					

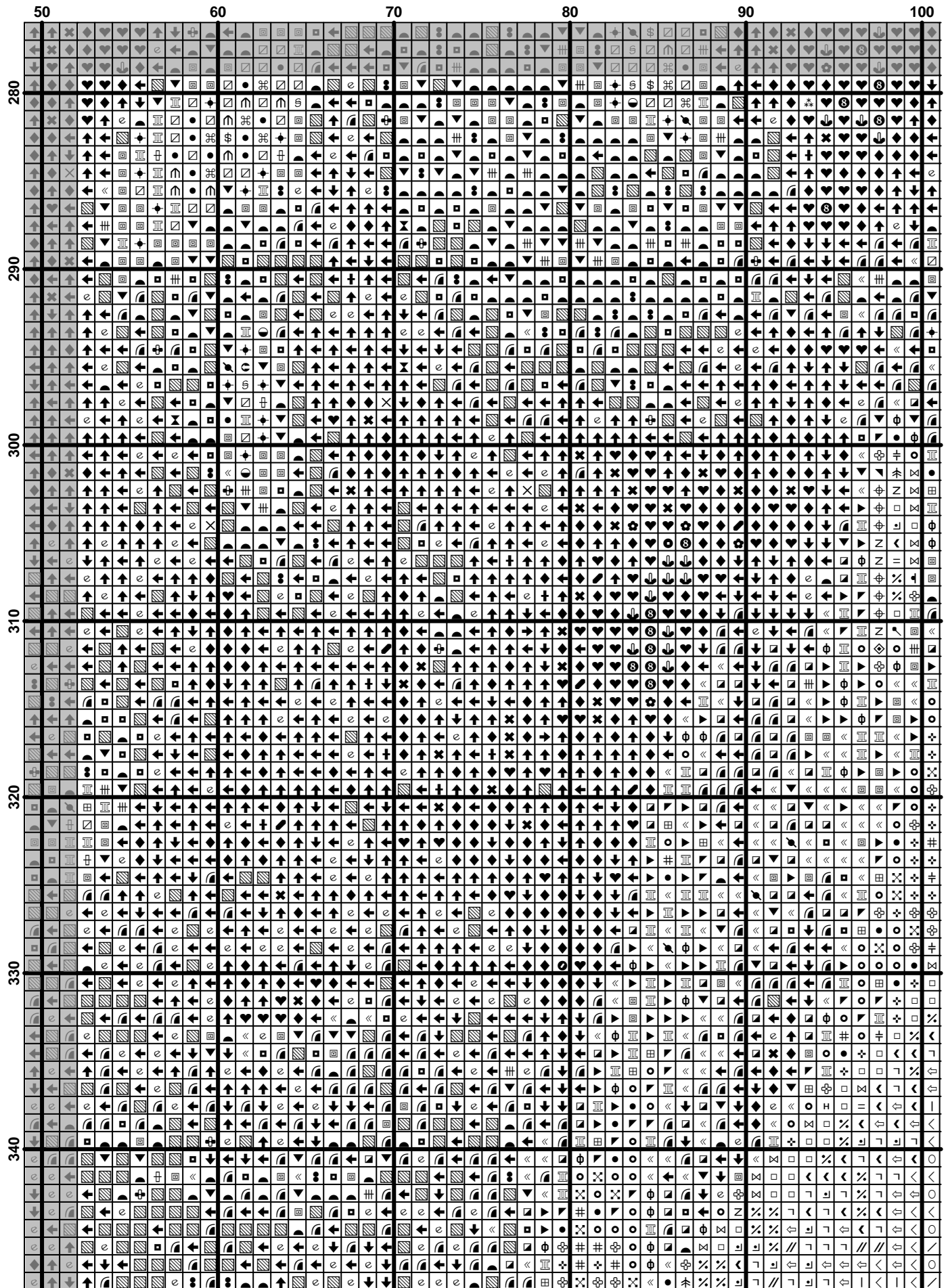
$$(42) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

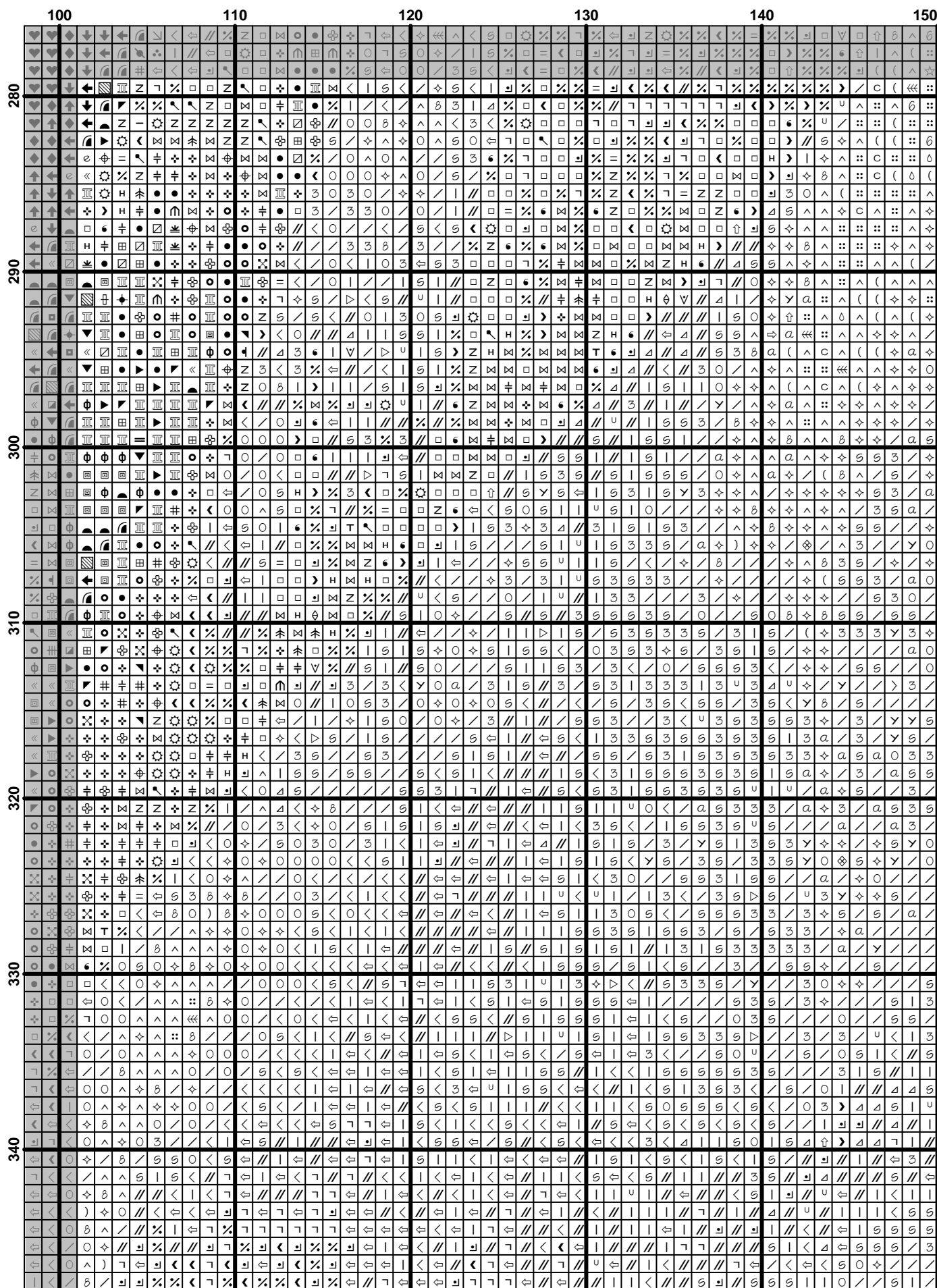
[illegible]







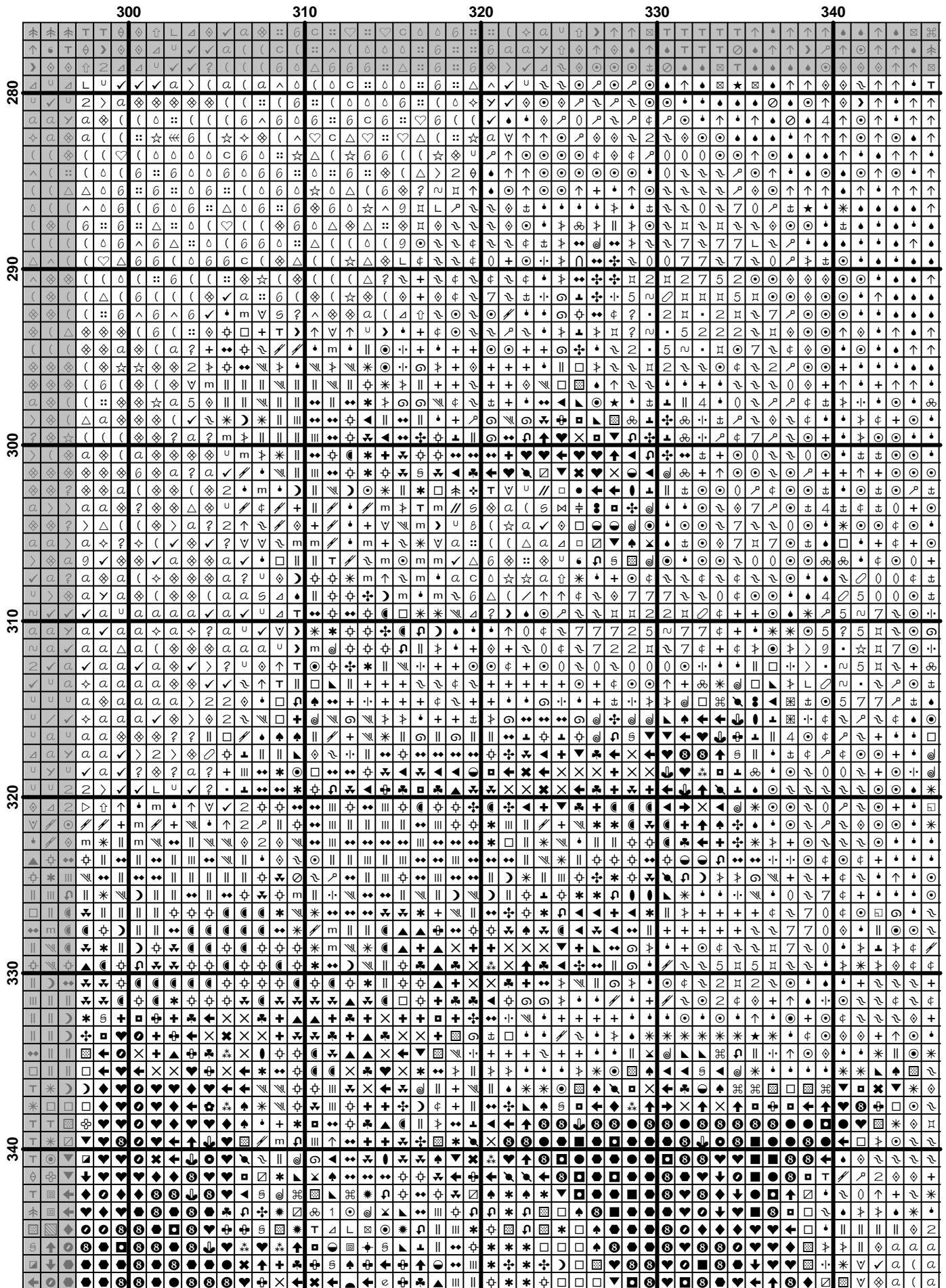


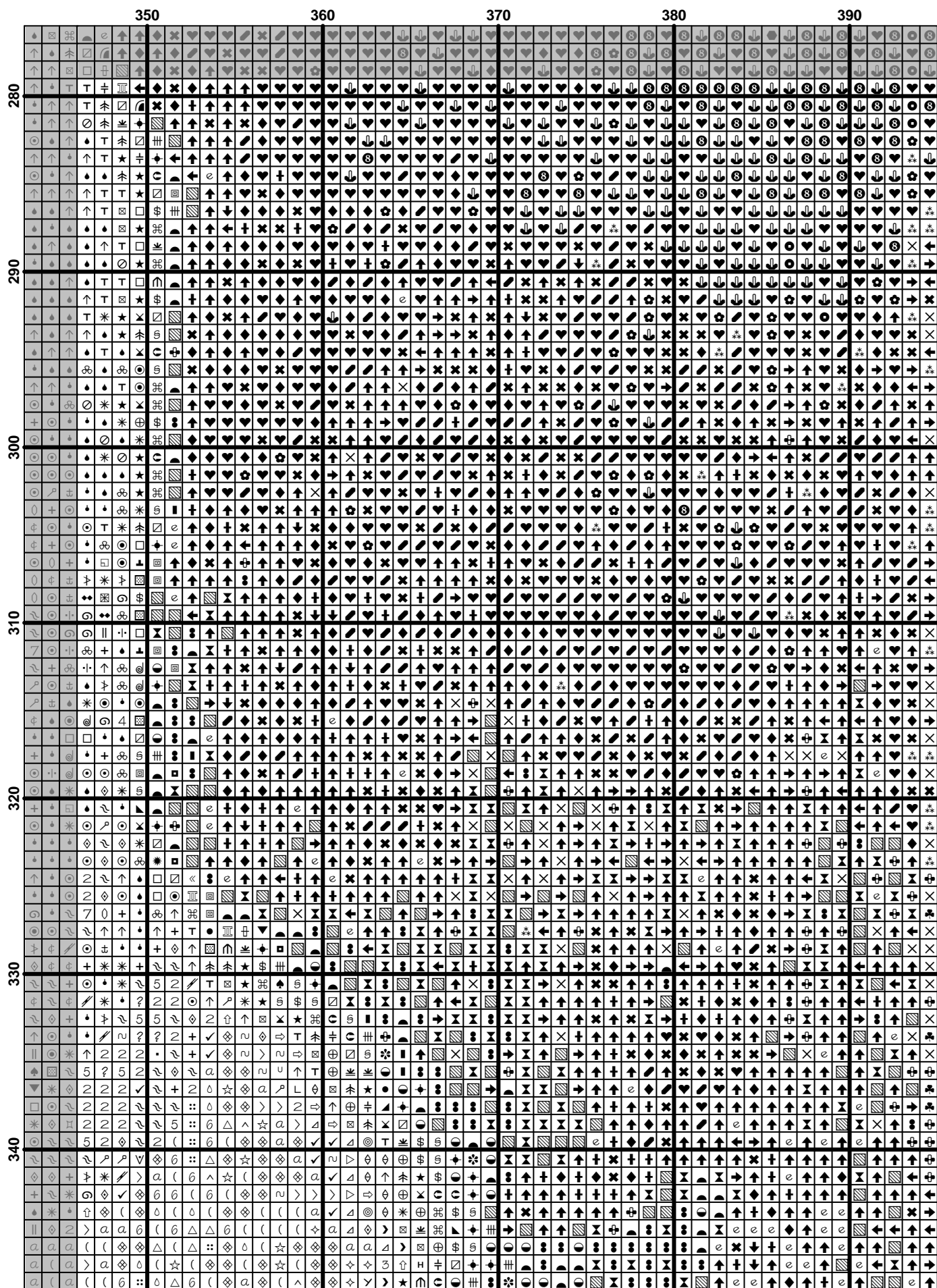


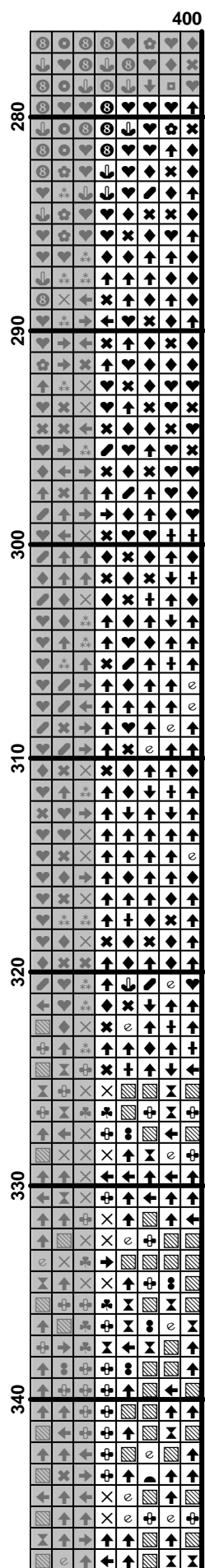
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283	8 8 6	8 8 6	8 8 6	8 8 6	8 8 6
284	8 8 6	8 8 6	8 8 6	8 8 6	8 8 6
285	8 8 6	8 8 6	8 8 6	8 8 6	8 8 6
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292	8 8 6	8 8 6	8 8 6	8 8 6	8 8 6
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295	8 8 6	8 8 6	8 8 6	8 8 6	8 8 6
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299	8 8 6	8 8 6	8 8 6	8 8 6	8 8 6
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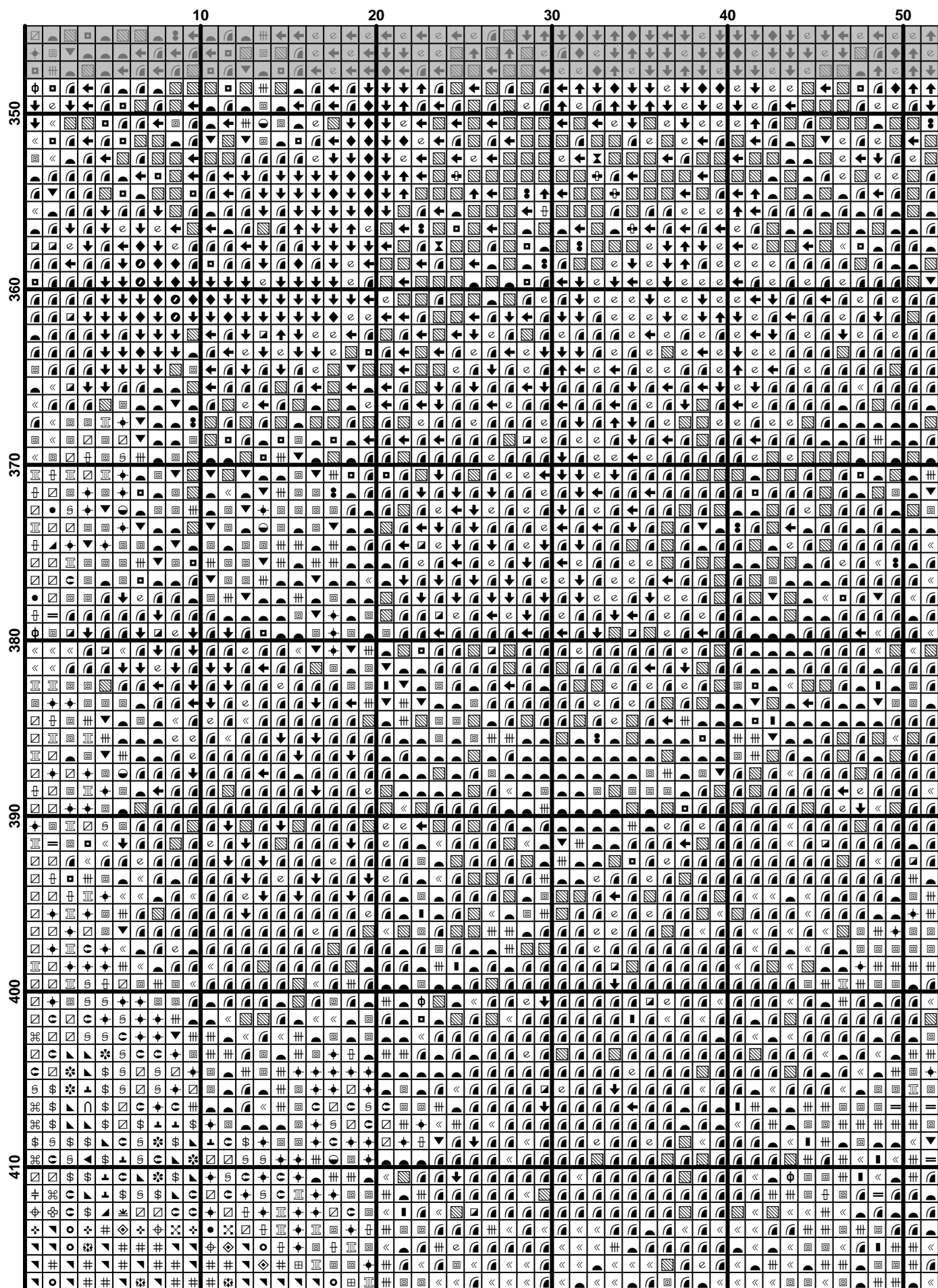
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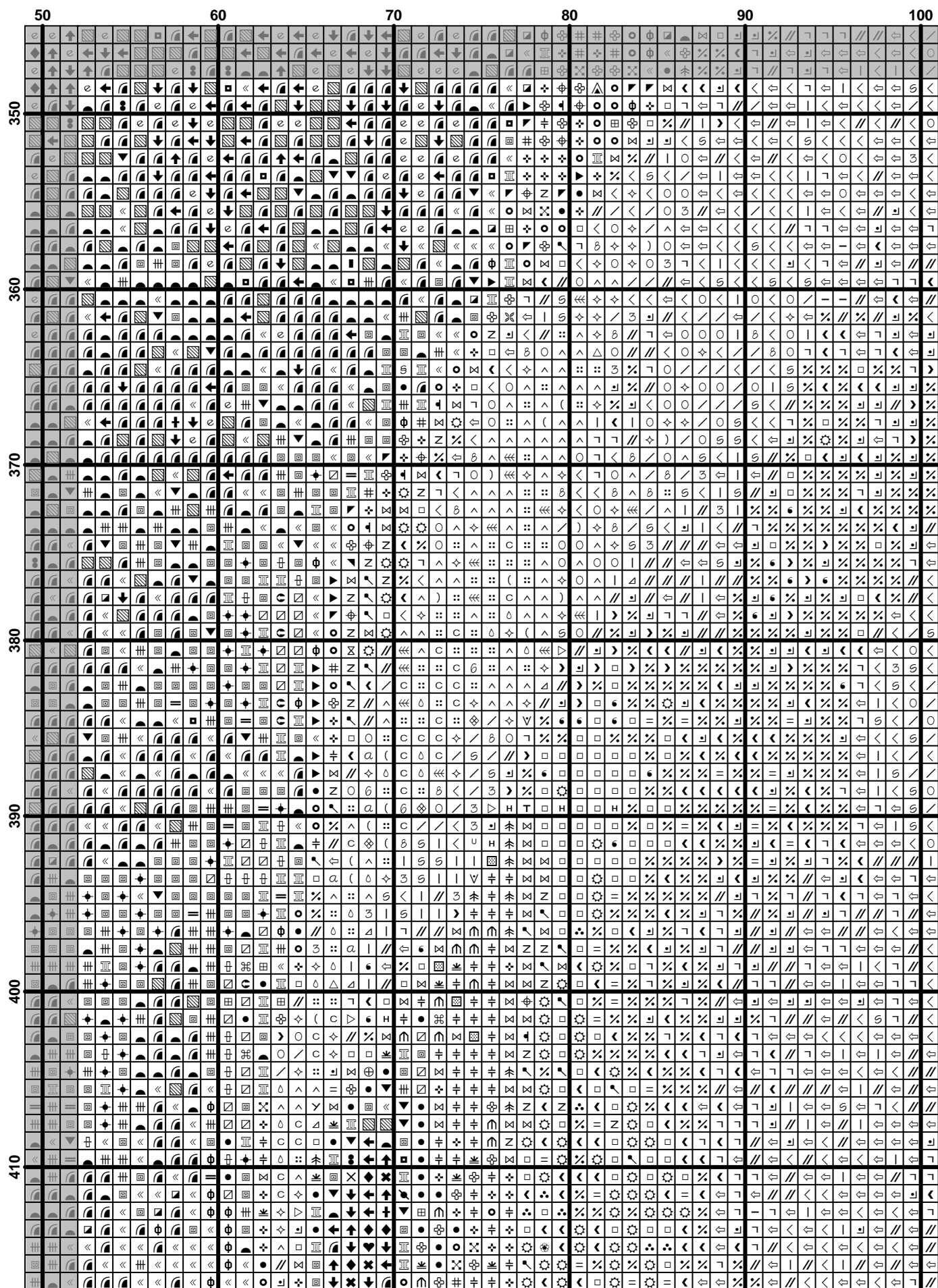
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280
290
300
310
320
330
340





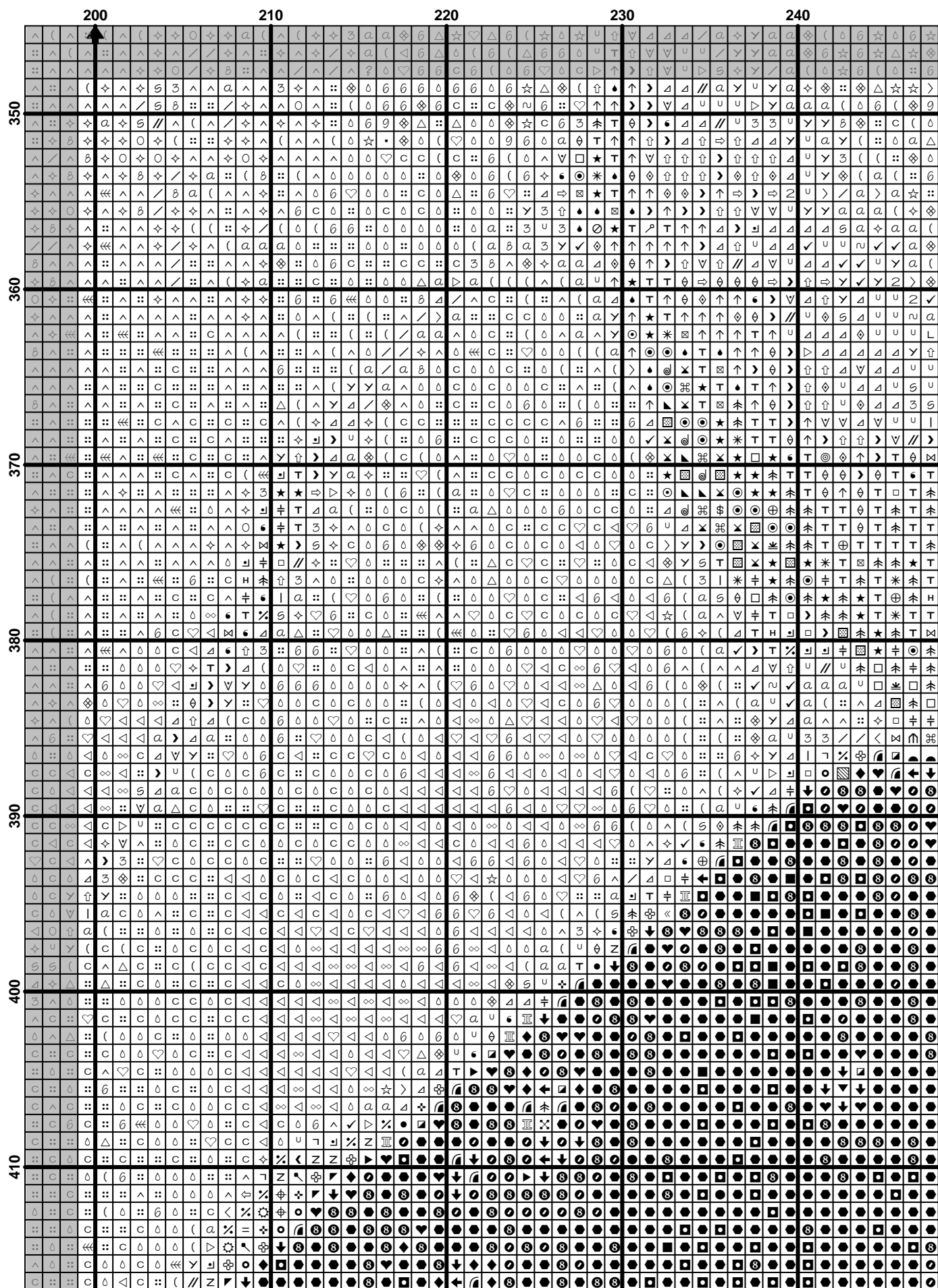




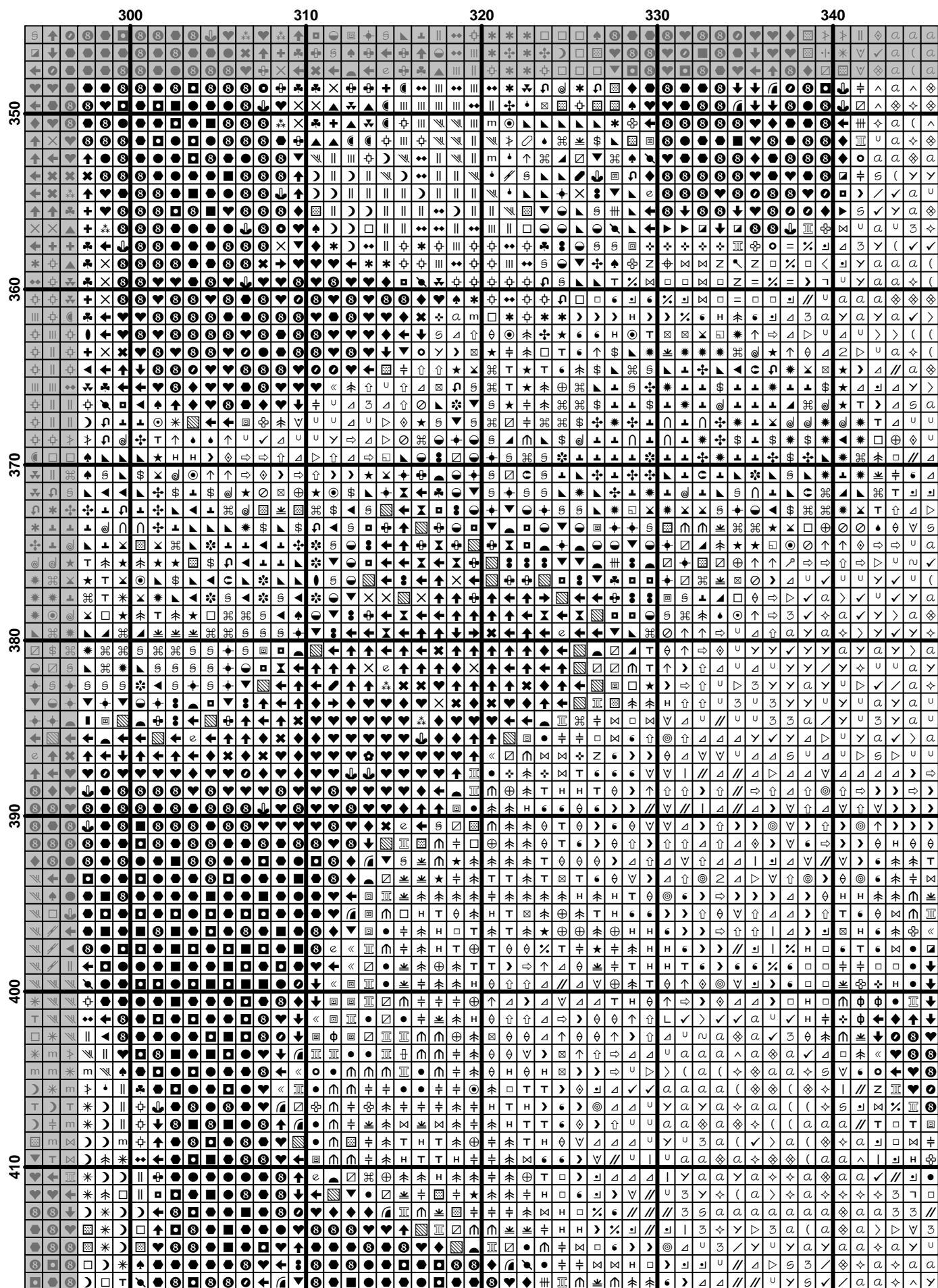


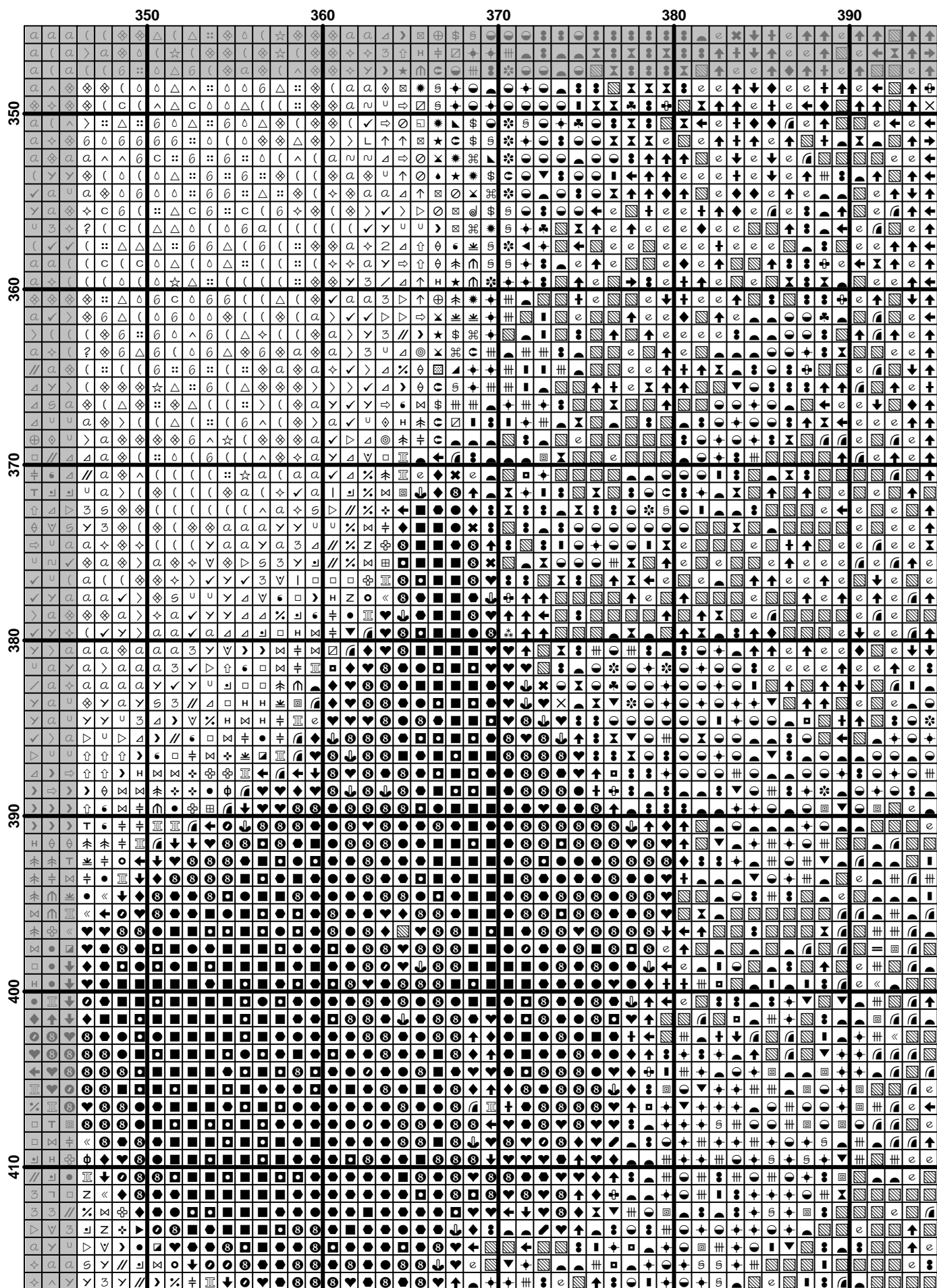
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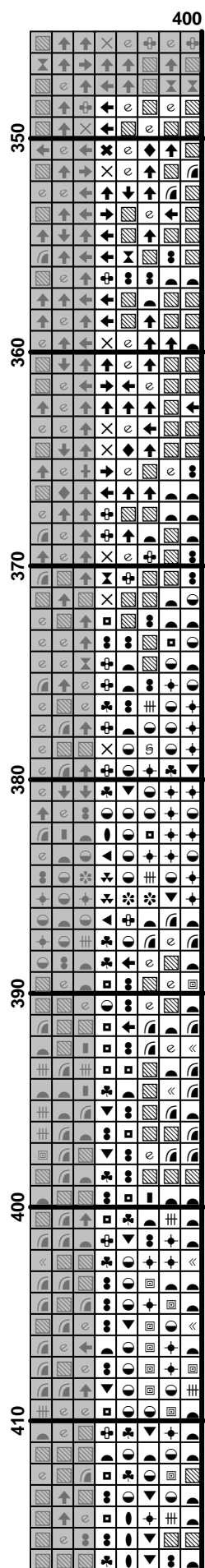
$$(58) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

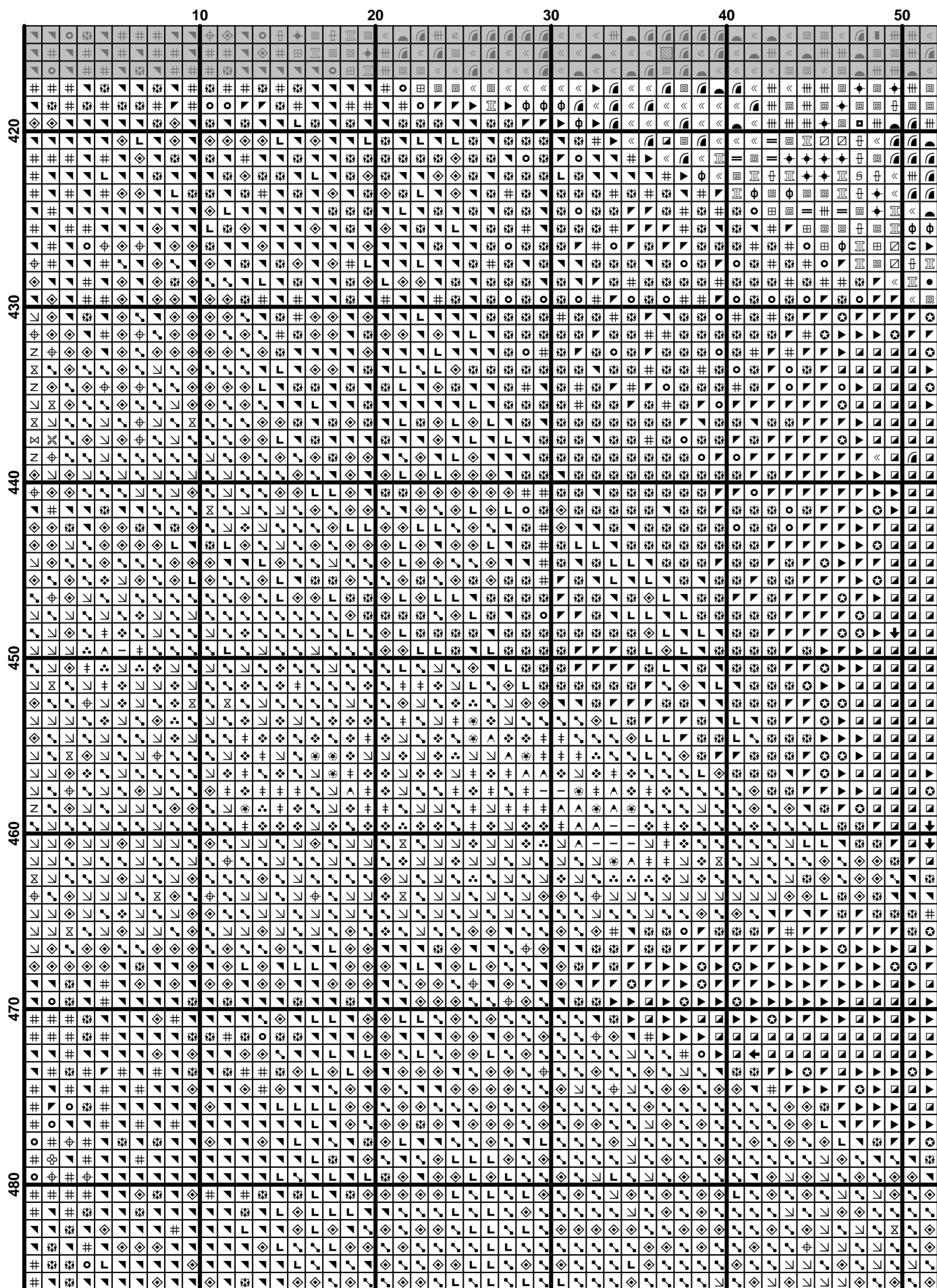


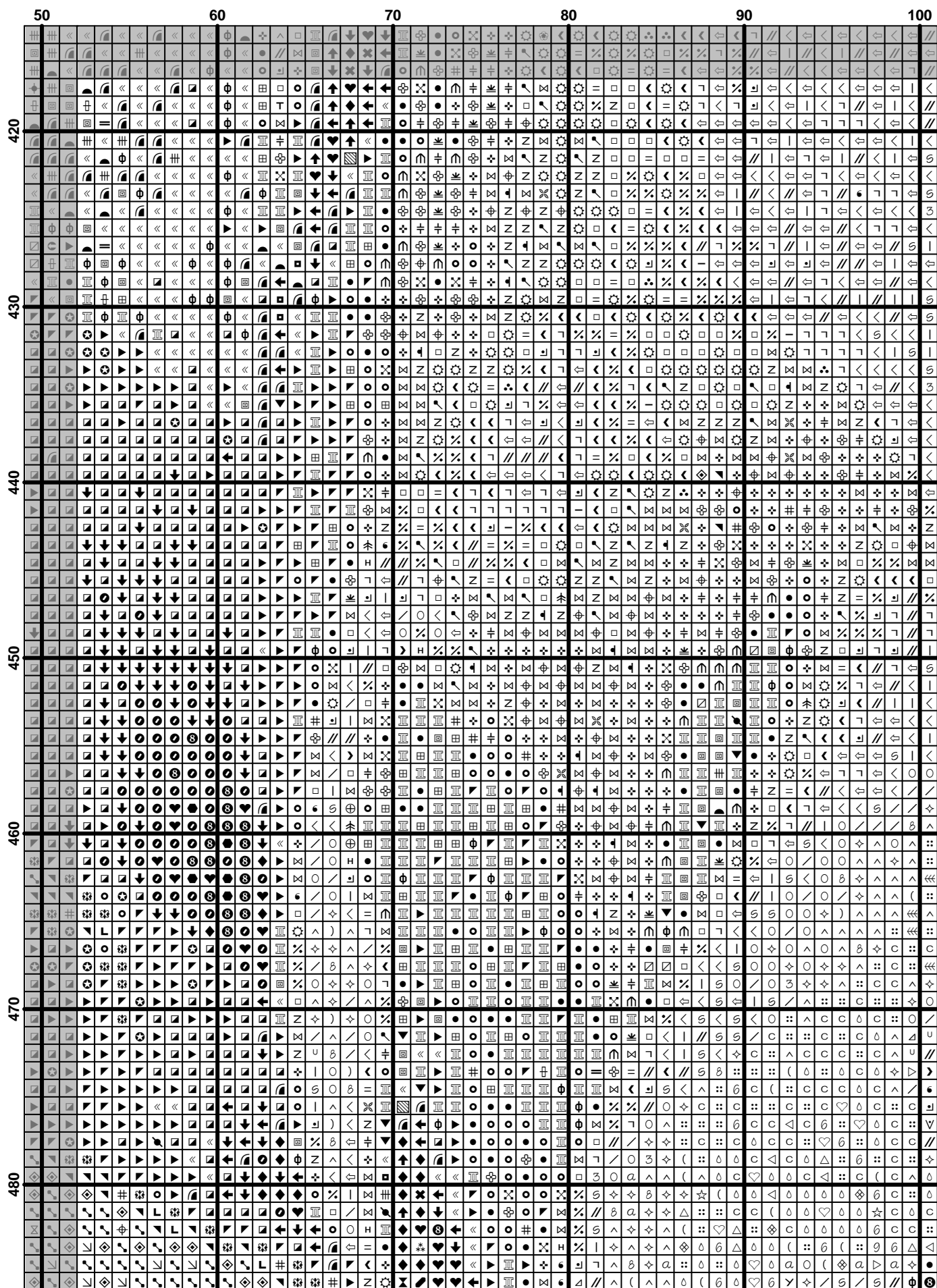
	250										260										270										280										290									
350																																																		
360																																																		
370																																																		
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390																																																		
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[illegible]

