

# 1150 Calling on Farmyard Friends



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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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## Calling on Farmyard Friends

Stitch Count	
Horizontal:	500
Vertical:	404

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:	91	35.67	74	28.76	80	31.21	64	25.17	71	27.75	57	22.375
Including Margins:	107	42	90	35	96	38	80	32	87	34	73	29
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	127	49.93	103	40.26	106	41.61	86	33.55	53	20.8	43	16.77
Including Margins:	143	56	119	47	122	48	102	40	69	27	59	23
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	50	19.97	41	16.1	49	19.2	39	15.48	47	18.49	38	14.91
Including Margins:	66	26	57	23	65	26	55	22	63	25	54	21
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	45	17.83	37	14.38	42	16.64	34	13.42	39	15.6	32	12.58
Including Margins:	61	24	53	21	58	23	50	20	55	22	48	19

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
⌵	300	Mahogany-VY DK
■	310	Black
5	352	Coral-LT
□	353	Peach
>	369	Pistachio Green-VY LT
⌘	370	Mustard-MD
◎	371	Mustard
—	372	Mustard-LT
≡	402	Mahogany-VY LT
‡	407	Desert Sand-DK
▼	413	Pewter Gray-DK
◇	415	Pearl Gray
⌌	420	Hazelnut Brown-DK
⊕	433	Brown-MD
*	434	Brown-LT
◇	437	Tan-LT
●	500	Blue Green-VY DK
∇	522	Fern Green
√	524	Fern Green-VY LT
▣	535	Ash Gray-VY LT
∨	543	Beige Brown-UL VY 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
β	644	Beige Gray-MD
❖	645	Beaver Gray-VY DK
↖	646	Beaver Gray-DK
↑	647	Beaver Gray-MD
^	677	Old Gold-VY LT
‡	680	Old Gold-DK
«	712	Cream
⬢	720	Orange Spice-DK
‡	729	Old Gold-MD
α	738	Tan-VY LT
▷	739	Tan-UL VY LT
1	746	Off White
⌘	747	Sky Blue-VY LT
=	754	Peach-LT
∪	758	Terra Cotta-VY LT
⊥	762	Pearl Gray-VY LT
⌞	780	Topaz-UL VY DK

☑	801	Coffee Brown-DK
	822	Beige Gray-LT
●	829	Golden Olive-VY DK
○	830	Golden Olive-DK
❖	844	Beaver Brown-UL DK
▶	869	Hazelnut Brown-VY DK
◆	898	Coffee Brown-VY DK
*	921	Copper
⌘	926	Gray Green-MD
<	927	Gray Green-LT
3	928	Gray Green-VY LT
●	934	Black Avocado Green
✕	935	Avocado Green-DK
⊕	938	Coffee Brown-UL DK
○	948	Peach-VY LT
φ	975	Golden Brown-DK
▲	3011	Khaki Green-DK
⌘	3012	Khaki Green-MD
☆	3013	Khaki Green-LT
←	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
2	3045	Yellow Beige-DK
◌	3052	Green Gray-MD
⊕	3053	Green Gray
)	3072	Beaver Gray-VY LT
✓	3364	Pine Green
■	3371	Black Brown
○	3753	Antique Blue-UL VY LT
△	3756	Baby Blue-UL VY LT
n	3770	Tawny-VY LT
▼	3781	Mocha Brown-DK
m	3782	Mocha Brown-LT
=	3787	Brown Gray-DK
↓	3799	Pewter Gray-VY DK
⊕	3824	Apricot-LT
g	3827	Golden Brown-Pale
#	3828	Hazelnut Brown
⌘	3829	Old Gold-VY DK
△	3856	Mahogany-UL VY LT
▲	3862	Mocha Beige-DK
▲	3863	Mocha Beige-MD
⊕	3864	Mocha Beige-LT
u	3865	Winter White
~		Ecru

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

Symbol	DMC1	Name1	DMC2	Name2
⊗	934	Black Avocado Green	938	Coffee Brown-UL DK
↑	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
★	420	Hazelnut Brown-DK	780	Topaz-UL VY DK
⧵	3862	Mocha Beige-DK	3863	Mocha Beige-MD
●	934	Black Avocado Green	935	Avocado Green-DK
**	936	Avocado Green-VY DK	3031	Mocha Brown-VY DK
◇	3863	Mocha Beige-MD	612	Drab Brown-LT
♂	3863	Mocha Beige-MD	435	Brown-VY LT
○	3011	Khaki Green-DK	3012	Khaki Green-MD
☯	3362	Pine Green-DK	844	Beaver Brown-UL DK
↘	520	Fern Green-DK	3021	Brown Gray-VY DK
L	613	Drab Brown-VY LT	677	Old Gold-VY LT
⊕	435	Brown-VY LT	3830	Terra Cotta-MD
×	371	Mustard	420	Hazelnut Brown-DK
⚓	3827	Golden Brown-Pale	3855	Autumn Gold-LT
⋈	520	Fern Green-DK	3799	Pewter Gray-VY DK
⊞	610	Drab Brown-DK	839	Beige Brown-DK
⊞	839	Beige Brown-DK	3362	Pine Green-DK
✚	610	Drab Brown-DK	632	Desert Sand-UL VY DK
⋈	3052	Green Gray-MD	3787	Brown Gray-DK
♠	839	Beige Brown-DK	3011	Khaki Green-DK
⬆	535	Ash Gray-VY LT	3799	Pewter Gray-VY DK
T	371	Mustard	435	Brown-VY LT
➤	420	Hazelnut Brown-DK	435	Brown-VY LT
☯	935	Avocado Green-DK	3031	Mocha Brown-VY DK
⊕	830	Golden Olive-DK	839	Beige Brown-DK
⬆	645	Beaver Gray-VY DK	3787	Brown Gray-DK
⬆	839	Beige Brown-DK	3787	Brown Gray-DK
⬆	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
⬆	3781	Mocha Brown-DK	838	Beige Brown-VY DK
⬆	720	Orange Spice-DK	780	Topaz-UL VY DK
⬆	645	Beaver Gray-VY DK	646	Beaver Gray-DK
⬆	3012	Khaki Green-MD	3862	Mocha Beige-DK
⬆	611	Drab Brown	839	Beige Brown-DK
↑	ecru	Ecru	3072	Beaver Gray-VY LT
⬆	926	Gray Green-MD	503	Blue Green-MD
:	613	Drab Brown-VY LT	739	Tan-UL VY LT
⊞	3864	Mocha Beige-LT	738	Tan-VY LT
↓	3863	Mocha Beige-MD	371	Mustard
⇒	353	Peach	3824	Apricot-LT
6	738	Tan-VY LT	754	Peach-LT
∞	948	Peach-VY LT	3770	Tawny-VY LT
⬆	420	Hazelnut Brown-DK	3862	Mocha Beige-DK
♣	839	Beige Brown-DK	3021	Brown Gray-VY DK
•	677	Old Gold-VY LT	3824	Apricot-LT
4	3024	Brown Gray-VY LT	928	Gray Green-VY LT
▲	3022	Brown Gray-MD	642	Beige Gray-DK
7	524	Fern Green-VY LT	3023	Brown Gray-LT
⊞	3012	Khaki Green-MD	3364	Pine Green
⊞	613	Drab Brown-VY LT	3782	Mocha Brown-LT
⊞	647	Beaver Gray-MD	3782	Mocha Brown-LT
⊞	3045	Yellow Beige-DK	3013	Khaki Green-LT
••	3053	Green Gray	642	Beige Gray-DK

🌀	3012	Khaki Green-MD	3053	Green Gray
≡	3863	Mocha Beige-MD	3053	Green Gray
🌀	371	Mustard	3052	Green Gray-MD
	437	Tan-LT	3045	Yellow Beige-DK
/	3827	Golden Brown-Pale	738	Tan-VY LT
⌒	402	Mahogany-VY LT	437	Tan-LT
↓	801	Coffee Brown-DK	936	Avocado Green-VY DK
●	610	Drab Brown-DK	830	Golden Olive-DK
☐	830	Golden Olive-DK	433	Brown-MD
▲	839	Beige Brown-DK	433	Brown-MD
◀	869	Hazelnut Brown-VY DK	434	Brown-LT
⌒	420	Hazelnut Brown-DK	831	Golden Olive-MD
☾	831	Golden Olive-MD	869	Hazelnut Brown-VY DK
✦	420	Hazelnut Brown-DK	434	Brown-LT
◎	610	Drab Brown-DK	640	Beige Gray-VY DK
∇	729	Old Gold-MD	3828	Hazelnut Brown
?	801	Coffee Brown-DK	898	Coffee Brown-VY DK
➡	936	Avocado Green-VY DK	898	Coffee Brown-VY DK
⦿	898	Coffee Brown-VY DK	3031	Mocha Brown-VY DK
✕	611	Drab Brown	3362	Pine Green-DK
⋈	420	Hazelnut Brown-DK	3012	Khaki Green-MD
<	739	Tan-UL VY LT	353	Peach
(	677	Old Gold-VY LT	353	Peach
e	738	Tan-VY LT	224	Shell Pink-VY LT
↔	3856	Mahogany-UL VY LT	738	Tan-VY LT
∨	3778	Terra Cotta-LT	3045	Yellow Beige-DK
⌒	3828	Hazelnut Brown	3778	Terra Cotta-LT
○	722	Orange Spice-LT	922	Copper-LT
н	402	Mahogany-VY LT	3828	Hazelnut Brown
⊕	632	Desert Sand-UL VY DK	433	Brown-MD
⌒	780	Topaz-UL VY DK	921	Copper
z	435	Brown-VY LT	356	Terra Cotta-MD
//	420	Hazelnut Brown-DK	3830	Terra Cotta-MD
\$	435	Brown-VY LT	922	Copper-LT
•	437	Tan-LT	3778	Terra Cotta-LT
II	921	Copper	402	Mahogany-VY LT
+	433	Brown-MD	434	Brown-LT
⊗	3830	Terra Cotta-MD	3863	Mocha Beige-MD
☐	437	Tan-LT	352	Coral-LT
⚙	434	Brown-LT	3830	Terra Cotta-MD
🌀	420	Hazelnut Brown-DK	921	Copper
☐	420	Hazelnut Brown-DK	680	Old Gold-DK
🌀	680	Old Gold-DK	3829	Old Gold-VY DK
c	729	Old Gold-MD	680	Old Gold-DK
♡	3856	Mahogany-UL VY LT	677	Old Gold-VY LT
▮	844	Beaver Brown-UL DK	926	Gray Green-MD
◆	611	Drab Brown	3011	Khaki Green-DK
■	3362	Pine Green-DK	3011	Khaki Green-DK
☐	646	Beaver Gray-DK	926	Gray Green-MD
⋈	612	Drab Brown-LT	738	Tan-VY LT
◎	720	Orange Spice-DK	922	Copper-LT
⬆	300	Mahogany-VY DK	975	Golden Brown-DK
☐	3830	Terra Cotta-MD	975	Golden Brown-DK
⊗	921	Copper	975	Golden Brown-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	
224	Shell Pink-VY LT	22	8	21	8	19	7
300	Mahogany-VY DK	145	57	138	54	125	49
310	Black	300	118	286	112	257	101
352	Coral-LT	38	14	36	14	32	12
353	Peach	58	22	55	21	49	19
356	Terra Cotta-MD	21	8	20	7	18	7
369	Pistachio Green-VY LT	26	10	25	9	22	8
370	Mustard-MD	112	44	106	41	96	37
371	Mustard	1051	413	1001	394	901	354
372	Mustard-LT	508	200	484	190	435	171
402	Mahogany-VY LT	49	19	47	18	42	16
407	Desert Sand-DK	29	11	28	11	25	9
413	Pewter Gray-DK	35	13	34	13	30	11
415	Pearl Gray	9	3	8	3	7	2
420	Hazelnut Brown-DK	671	264	639	251	575	226
433	Brown-MD	367	144	349	137	314	123
434	Brown-LT	308	121	293	115	264	103
435	Brown-VY LT	221	87	211	83	190	74
437	Tan-LT	220	86	209	82	188	74
500	Blue Green-VY DK	195	76	185	72	167	65
503	Blue Green-MD	10	3	10	3	9	3
520	Fern Green-DK	457	179	435	171	392	154
522	Fern Green	104	40	99	38	89	35
524	Fern Green-VY LT	387	152	368	144	332	130
535	Ash Gray-VY LT	264	103	251	98	226	88
543	Beige Brown-UL VY LT	104	40	99	38	89	35
610	Drab Brown-DK	1134	446	1080	425	972	382
611	Drab Brown	1618	637	1541	606	1386	545
612	Drab Brown-LT	852	335	811	319	730	287
613	Drab Brown-VY LT	867	341	826	325	743	292
632	Desert Sand-UL VY DK	186	73	177	69	159	62
640	Beige Gray-VY DK	2004	788	1909	751	1718	676
642	Beige Gray-DK	901	354	858	337	772	303
644	Beige Gray-MD	251	98	239	94	215	84
645	Beaver Gray-VY DK	677	266	645	253	580	228
646	Beaver Gray-DK	385	151	366	144	330	129
647	Beaver Gray-MD	374	147	356	140	320	125
677	Old Gold-VY LT	278	109	265	104	238	93
680	Old Gold-DK	109	42	104	40	93	36
712	Cream	93	36	88	34	80	31
720	Orange Spice-DK	48	18	46	18	41	16
722	Orange Spice-LT	3	1	3	1	2	1
729	Old Gold-MD	71	27	67	26	61	24
738	Tan-VY LT	487	191	464	182	418	164
739	Tan-UL VY LT	233	91	222	87	200	78
746	Off White	62	24	59	23	53	20
747	Sky Blue-VY LT	97	38	92	36	83	32
754	Peach-LT	67	26	64	25	57	22
758	Terra Cotta-VY LT	22	8	21	8	19	7
762	Pearl Gray-VY LT	43	16	41	16	37	14
780	Topaz-UL VY DK	106	41	101	39	91	35
801	Coffee Brown-DK	1146	451	1091	429	982	386
822	Beige Gray-LT	105	41	100	39	90	35
829	Golden Olive-VY DK	147	57	140	55	126	49

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830	Golden Olive-DK	564	222	537	211	483	190
831	Golden Olive-MD	75	29	71	27	64	25
838	Beige Brown-VY DK	248	97	236	92	212	83
839	Beige Brown-DK	1607	632	1530	602	1377	542
844	Beaver Brown-UL DK	434	170	413	162	372	146
869	Hazelnut Brown-VY DK	195	76	185	72	167	65
898	Coffee Brown-VY DK	3265	1285	3109	1224	2798	1101
921	Copper	122	48	116	45	104	40
922	Copper-LT	22	8	21	8	19	7
926	Gray Green-MD	97	38	92	36	83	32
927	Gray Green-LT	40	15	38	14	34	13
928	Gray Green-VY LT	144	56	137	53	123	48
934	Black Avocado Green	2090	822	1991	783	1792	705
935	Avocado Green-DK	1792	705	1706	671	1536	604
936	Avocado Green-VY DK	2198	865	2094	824	1884	741
938	Coffee Brown-UL DK	2189	861	2084	820	1876	738
948	Peach-VY LT	126	49	120	47	108	42
975	Golden Brown-DK	279	109	265	104	239	94
3011	Khaki Green-DK	1076	423	1025	403	922	362
3012	Khaki Green-MD	789	310	751	295	676	266
3013	Khaki Green-LT	387	152	369	145	332	130
3021	Brown Gray-VY DK	1770	696	1686	663	1517	597
3022	Brown Gray-MD	725	285	691	272	622	244
3023	Brown Gray-LT	197	77	187	73	168	66
3024	Brown Gray-VY LT	153	60	145	57	131	51
3031	Mocha Brown-VY DK	5008	1971	4770	1877	4293	1690
3032	Mocha Brown-MD	399	157	380	149	342	134
3045	Yellow Beige-DK	344	135	328	129	295	116
3052	Green Gray-MD	2158	849	2056	809	1850	728
3053	Green Gray	1357	534	1293	509	1163	457
3072	Beaver Gray-VY LT	152	59	145	57	130	51
3362	Pine Green-DK	1502	591	1431	563	1287	506
3364	Pine Green	89	35	85	33	76	29
3371	Black Brown	215	84	205	80	184	72
3753	Antique Blue-UL VY LT	25	9	23	9	21	8
3756	Baby Blue-UL VY LT	96	37	91	35	82	32
3770	Tawny-VY LT	64	25	61	24	55	21
3778	Terra Cotta-LT	66	25	63	24	56	22
3781	Mocha Brown-DK	1026	403	977	384	879	346
3782	Mocha Brown-LT	922	362	878	345	790	311
3787	Brown Gray-DK	1805	710	1719	676	1547	609
3799	Pewter Gray-VY DK	437	172	416	163	374	147
3824	Apricot-LT	43	16	41	16	37	14
3827	Golden Brown-Pale	66	25	62	24	56	22
3828	Hazelnut Brown	235	92	224	88	201	79
3829	Old Gold-VY DK	44	17	42	16	38	14
3830	Terra Cotta-MD	91	35	87	34	78	30
3855	Autumn Gold-LT	11	4	10	3	9	3
3856	Mahogany-UL VY LT	90	35	85	33	77	30
3862	Mocha Beige-DK	650	255	619	243	557	219
3863	Mocha Beige-MD	1085	427	1033	406	930	366
3864	Mocha Beige-LT	166	65	158	62	142	55
3865	Winter White	37	14	35	13	31	12
ecru	Ecru	116	45	110	43	99	38



Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
224	Shell Pink-VY LT	34	13	29	11	14	5
300	Mahogany-VY DK	225	88	188	74	94	37
310	Black	463	182	386	152	193	76
352	Coral-LT	58	22	48	18	24	9
353	Peach	88	34	74	29	37	14
356	Terra Cotta-MD	32	13	27	11	14	5
369	Pistachio Green-VY LT	40	14	33	12	17	6
370	Mustard-MD	173	67	144	56	72	28
371	Mustard	1622	637	1352	531	676	266
372	Mustard-LT	783	308	653	257	326	128
402	Mahogany-VY LT	76	29	63	24	32	12
407	Desert Sand-DK	45	16	38	14	19	7
413	Pewter Gray-DK	54	20	45	17	23	8
415	Pearl Gray	13	4	11	3	5	2
420	Hazelnut Brown-DK	1035	407	863	339	431	170
433	Brown-MD	565	221	471	185	236	92
434	Brown-LT	475	185	396	155	198	77
435	Brown-VY LT	342	133	285	111	143	56
437	Tan-LT	338	133	282	111	141	56
500	Blue Green-VY DK	301	117	251	98	125	49
503	Blue Green-MD	16	5	14	5	7	2
520	Fern Green-DK	706	277	588	231	294	116
522	Fern Green	160	63	134	53	67	26
524	Fern Green-VY LT	598	234	498	195	249	98
535	Ash Gray-VY LT	407	158	339	132	170	66
543	Beige Brown-UL VY LT	160	63	134	53	67	26
610	Drab Brown-DK	1750	688	1458	573	729	287
611	Drab Brown	2495	981	2079	818	1040	409
612	Drab Brown-LT	1314	517	1095	431	548	215
613	Drab Brown-VY LT	1337	526	1115	438	557	219
632	Desert Sand-UL VY DK	286	112	239	93	119	47
640	Beige Gray-VY DK	3092	1217	2577	1014	1289	507
642	Beige Gray-DK	1390	545	1158	455	579	227
644	Beige Gray-MD	387	151	323	126	161	63
645	Beaver Gray-VY DK	1044	410	870	342	435	171
646	Beaver Gray-DK	594	232	495	194	248	97
647	Beaver Gray-MD	576	225	480	188	240	94
677	Old Gold-VY LT	428	167	357	140	179	70
680	Old Gold-DK	167	65	140	54	70	27
712	Cream	144	56	120	47	60	23
720	Orange Spice-DK	74	29	62	24	31	12
722	Orange Spice-LT	4	2	3	2	2	1
729	Old Gold-MD	110	43	92	36	46	18
738	Tan-VY LT	752	295	627	246	314	123
739	Tan-UL VY LT	360	140	300	117	150	59
746	Off White	95	36	80	30	40	15
747	Sky Blue-VY LT	149	58	125	48	62	24
754	Peach-LT	103	40	86	33	43	17
758	Terra Cotta-VY LT	34	13	29	11	14	5
762	Pearl Gray-VY LT	67	25	56	21	28	11
780	Topaz-UL VY DK	164	63	137	53	68	26
801	Coffee Brown-DK	1768	695	1473	579	737	290
822	Beige Gray-LT	162	63	135	53	68	26

829	Golden Olive-VY DK	227	88	189	74	95	37
830	Golden Olive-DK	869	342	725	285	362	143
831	Golden Olive-MD	115	45	96	38	48	19
838	Beige Brown-VY DK	382	149	318	125	159	62
839	Beige Brown-DK	2479	976	2066	813	1033	407
844	Beaver Brown-UL DK	670	263	558	219	279	110
869	Hazelnut Brown-VY DK	301	117	251	98	125	49
898	Coffee Brown-VY DK	5036	1982	4197	1652	2099	826
921	Copper	187	72	156	60	78	30
922	Copper-LT	34	13	29	11	14	5
926	Gray Green-MD	149	58	125	48	62	24
927	Gray Green-LT	61	23	51	20	26	10
928	Gray Green-VY LT	221	86	185	72	92	36
934	Black Avocado Green	3226	1269	2688	1058	1344	529
935	Avocado Green-DK	2765	1087	2304	906	1152	453
936	Avocado Green-VY DK	3391	1334	2826	1112	1413	556
938	Coffee Brown-UL DK	3377	1328	2814	1107	1407	554
948	Peach-VY LT	194	76	162	63	81	32
975	Golden Brown-DK	430	169	359	141	179	71
3011	Khaki Green-DK	1660	652	1383	543	692	272
3012	Khaki Green-MD	1217	479	1014	399	507	200
3013	Khaki Green-LT	598	234	498	195	249	98
3021	Brown Gray-VY DK	2731	1075	2276	896	1138	448
3022	Brown Gray-MD	1120	439	933	366	467	183
3023	Brown Gray-LT	302	119	252	99	126	50
3024	Brown Gray-VY LT	236	92	197	77	98	38
3031	Mocha Brown-VY DK	7727	3042	6440	2535	3220	1268
3032	Mocha Brown-MD	616	241	513	201	257	101
3045	Yellow Beige-DK	531	209	443	174	221	87
3052	Green Gray-MD	3330	1310	2775	1092	1388	546
3053	Green Gray	2093	823	1745	686	872	343
3072	Beaver Gray-VY LT	234	92	195	77	98	38
3362	Pine Green-DK	2317	911	1931	759	965	380
3364	Pine Green	137	52	114	44	57	22
3371	Black Brown	331	130	276	108	138	54
3753	Antique Blue-UL VY LT	38	14	32	12	16	6
3756	Baby Blue-UL VY LT	148	58	123	48	62	24
3770	Tawny-VY LT	99	38	83	32	41	16
3778	Terra Cotta-LT	101	40	84	33	42	17
3781	Mocha Brown-DK	1582	623	1319	519	659	260
3782	Mocha Brown-LT	1422	560	1185	467	593	233
3787	Brown Gray-DK	2785	1096	2321	914	1160	457
3799	Pewter Gray-VY DK	673	265	561	221	281	110
3824	Apricot-LT	67	25	56	21	28	11
3827	Golden Brown-Pale	101	40	84	33	42	17
3828	Hazelnut Brown	362	142	302	119	151	59
3829	Old Gold-VY DK	68	25	57	21	29	11
3830	Terra Cotta-MD	140	54	117	45	59	23
3855	Autumn Gold-LT	16	5	14	5	7	2
3856	Mahogany-UL VY LT	139	54	116	45	58	23
3862	Mocha Beige-DK	1003	394	836	329	418	164
3863	Mocha Beige-MD	1674	659	1395	549	698	275
3864	Mocha Beige-LT	256	99	213	83	107	41
3865	Winter White	56	22	47	18	23	9
ecru	Ecru	178	68	149	57	74	29

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
224	Shell Pink-VY LT	14	5	13	5	13	5
300	Mahogany-VY DK	90	35	87	34	83	33
310	Black	185	73	178	70	171	67
352	Coral-LT	23	9	22	8	21	8
353	Peach	35	14	34	13	33	13
356	Terra Cotta-MD	13	5	12	5	12	5
369	Pistachio Green-VY LT	16	6	15	6	15	5
370	Mustard-MD	69	27	66	26	64	25
371	Mustard	649	255	624	245	601	236
372	Mustard-LT	313	123	301	118	290	114
402	Mahogany-VY LT	30	12	29	11	28	11
407	Desert Sand-DK	18	6	17	6	17	6
413	Pewter Gray-DK	22	8	21	8	20	7
415	Pearl Gray	5	1	5	1	5	1
420	Hazelnut Brown-DK	414	163	398	156	383	151
433	Brown-MD	226	89	217	85	209	82
434	Brown-LT	190	74	183	71	176	69
435	Brown-VY LT	137	53	132	51	127	49
437	Tan-LT	135	53	130	51	125	49
500	Blue Green-VY DK	120	47	116	45	111	43
503	Blue Green-MD	6	2	6	2	6	2
520	Fern Green-DK	282	111	271	107	261	103
522	Fern Green	64	25	62	24	59	23
524	Fern Green-VY LT	239	94	230	90	221	87
535	Ash Gray-VY LT	163	63	156	61	151	59
543	Beige Brown-UL VY LT	64	25	62	24	59	23
610	Drab Brown-DK	700	275	673	264	648	255
611	Drab Brown	998	392	960	377	924	363
612	Drab Brown-LT	526	207	505	199	487	191
613	Drab Brown-VY LT	535	210	514	202	495	195
632	Desert Sand-UL VY DK	114	45	110	43	106	41
640	Beige Gray-VY DK	1237	487	1189	468	1145	451
642	Beige Gray-DK	556	218	534	210	515	202
644	Beige Gray-MD	155	60	149	58	143	56
645	Beaver Gray-VY DK	418	164	402	158	387	152
646	Beaver Gray-DK	238	93	228	89	220	86
647	Beaver Gray-MD	230	90	222	87	213	83
677	Old Gold-VY LT	171	67	165	64	159	62
680	Old Gold-DK	67	26	64	25	62	24
712	Cream	58	22	55	21	53	21
720	Orange Spice-DK	30	12	28	11	27	11
722	Orange Spice-LT	1	1	1	1	1	1
729	Old Gold-MD	44	17	42	17	41	16
738	Tan-VY LT	301	118	289	114	279	109
739	Tan-UL VY LT	144	56	138	54	133	52
746	Off White	38	14	37	14	35	13
747	Sky Blue-VY LT	60	23	57	22	55	21
754	Peach-LT	41	16	39	15	38	15
758	Terra Cotta-VY LT	14	5	13	5	13	5
762	Pearl Gray-VY LT	27	10	26	10	25	9
780	Topaz-UL VY DK	66	25	63	24	61	23
801	Coffee Brown-DK	707	278	680	267	655	257
822	Beige Gray-LT	65	25	62	24	60	23

829	Golden Olive-VY DK	91	35	87	34	84	33
830	Golden Olive-DK	348	137	334	132	322	127
831	Golden Olive-MD	46	18	44	17	43	17
838	Beige Brown-VY DK	153	60	147	57	141	55
839	Beige Brown-DK	991	390	953	375	918	361
844	Beaver Brown-UL DK	268	105	258	101	248	97
869	Hazelnut Brown-VY DK	120	47	116	45	111	43
898	Coffee Brown-VY DK	2015	793	1937	762	1865	734
921	Copper	75	29	72	28	69	27
922	Copper-LT	14	5	13	5	13	5
926	Gray Green-MD	60	23	57	22	55	21
927	Gray Green-LT	24	9	24	9	23	9
928	Gray Green-VY LT	89	35	85	33	82	32
934	Black Avocado Green	1290	508	1241	488	1195	470
935	Avocado Green-DK	1106	435	1063	418	1024	403
936	Avocado Green-VY DK	1356	534	1304	513	1256	494
938	Coffee Brown-UL DK	1351	531	1299	511	1251	492
948	Peach-VY LT	78	30	75	29	72	28
975	Golden Brown-DK	172	68	165	65	159	63
3011	Khaki Green-DK	664	261	638	251	615	241
3012	Khaki Green-MD	487	192	468	184	451	177
3013	Khaki Green-LT	239	94	230	90	221	87
3021	Brown Gray-VY DK	1092	430	1050	413	1011	398
3022	Brown Gray-MD	448	176	431	169	415	163
3023	Brown Gray-LT	121	48	116	46	112	44
3024	Brown Gray-VY LT	94	37	91	35	87	34
3031	Mocha Brown-VY DK	3091	1217	2972	1170	2862	1127
3032	Mocha Brown-MD	246	96	237	93	228	89
3045	Yellow Beige-DK	212	84	204	80	197	77
3052	Green Gray-MD	1332	524	1281	504	1233	485
3053	Green Gray	837	329	805	316	775	305
3072	Beaver Gray-VY LT	94	37	90	35	87	34
3362	Pine Green-DK	927	364	891	350	858	337
3364	Pine Green	55	21	53	20	51	19
3371	Black Brown	132	52	127	50	123	48
3753	Antique Blue-UL VY LT	15	6	15	6	14	5
3756	Baby Blue-UL VY LT	59	23	57	22	55	21
3770	Tawny-VY LT	40	15	38	15	37	14
3778	Terra Cotta-LT	40	16	39	15	37	15
3781	Mocha Brown-DK	633	249	609	240	586	231
3782	Mocha Brown-LT	569	224	547	215	527	207
3787	Brown Gray-DK	1114	438	1071	422	1031	406
3799	Pewter Gray-VY DK	269	106	259	102	249	98
3824	Apricot-LT	27	10	26	10	25	9
3827	Golden Brown-Pale	40	16	39	15	37	15
3828	Hazelnut Brown	145	57	139	55	134	53
3829	Old Gold-VY DK	27	10	26	10	25	9
3830	Terra Cotta-MD	56	22	54	21	52	20
3855	Autumn Gold-LT	6	2	6	2	6	2
3856	Mahogany-UL VY LT	55	22	53	21	51	20
3862	Mocha Beige-DK	401	158	386	152	371	146
3863	Mocha Beige-MD	670	264	644	253	620	244
3864	Mocha Beige-LT	102	40	98	38	95	37
3865	Winter White	22	9	21	8	21	8
ecru	Ecru	71	27	69	26	66	25

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
224	Shell Pink-VY LT	12	5	11	4	11	4
300	Mahogany-VY DK	80	32	75	29	70	28
310	Black	165	65	154	61	145	57
352	Coral-LT	21	8	19	7	18	7
353	Peach	32	12	29	11	28	11
356	Terra Cotta-MD	12	5	11	4	10	4
369	Pistachio Green-VY LT	14	5	13	5	12	5
370	Mustard-MD	62	24	58	22	54	21
371	Mustard	579	228	541	212	507	199
372	Mustard-LT	280	110	261	103	245	96
402	Mahogany-VY LT	27	10	25	10	24	9
407	Desert Sand-DK	16	6	15	5	14	5
413	Pewter Gray-DK	19	7	18	7	17	6
415	Pearl Gray	5	1	4	1	4	1
420	Hazelnut Brown-DK	370	145	345	136	323	127
433	Brown-MD	202	79	188	74	177	69
434	Brown-LT	170	66	158	62	149	58
435	Brown-VY LT	122	48	114	44	107	42
437	Tan-LT	121	48	113	44	106	42
500	Blue Green-VY DK	107	42	100	39	94	37
503	Blue Green-MD	6	2	5	2	5	2
520	Fern Green-DK	252	99	235	92	221	87
522	Fern Green	57	23	53	21	50	20
524	Fern Green-VY LT	213	84	199	78	187	73
535	Ash Gray-VY LT	145	57	136	53	127	50
543	Beige Brown-UL VY LT	57	23	53	21	50	20
610	Drab Brown-DK	625	246	583	229	547	215
611	Drab Brown	891	350	832	327	780	307
612	Drab Brown-LT	469	185	438	172	411	161
613	Drab Brown-VY LT	478	188	446	175	418	164
632	Desert Sand-UL VY DK	102	40	95	37	89	35
640	Beige Gray-VY DK	1104	435	1031	406	966	380
642	Beige Gray-DK	496	195	463	182	434	170
644	Beige Gray-MD	138	54	129	50	121	47
645	Beaver Gray-VY DK	373	147	348	137	326	128
646	Beaver Gray-DK	212	83	198	77	186	73
647	Beaver Gray-MD	206	80	192	75	180	70
677	Old Gold-VY LT	153	60	143	56	134	52
680	Old Gold-DK	60	23	56	22	52	20
712	Cream	51	20	48	19	45	17
720	Orange Spice-DK	26	10	25	10	23	9
722	Orange Spice-LT	1	1	1	1	1	1
729	Old Gold-MD	39	15	37	14	34	14
738	Tan-VY LT	269	105	251	98	235	92
739	Tan-UL VY LT	129	50	120	47	113	44
746	Off White	34	13	32	12	30	11
747	Sky Blue-VY LT	53	21	50	19	47	18
754	Peach-LT	37	14	34	13	32	12
758	Terra Cotta-VY LT	12	5	11	4	11	4
762	Pearl Gray-VY LT	24	9	22	8	21	8
780	Topaz-UL VY DK	59	23	55	21	51	20
801	Coffee Brown-DK	631	248	589	232	552	217
822	Beige Gray-LT	58	23	54	21	51	20
829	Golden Olive-VY DK	81	32	76	29	71	28

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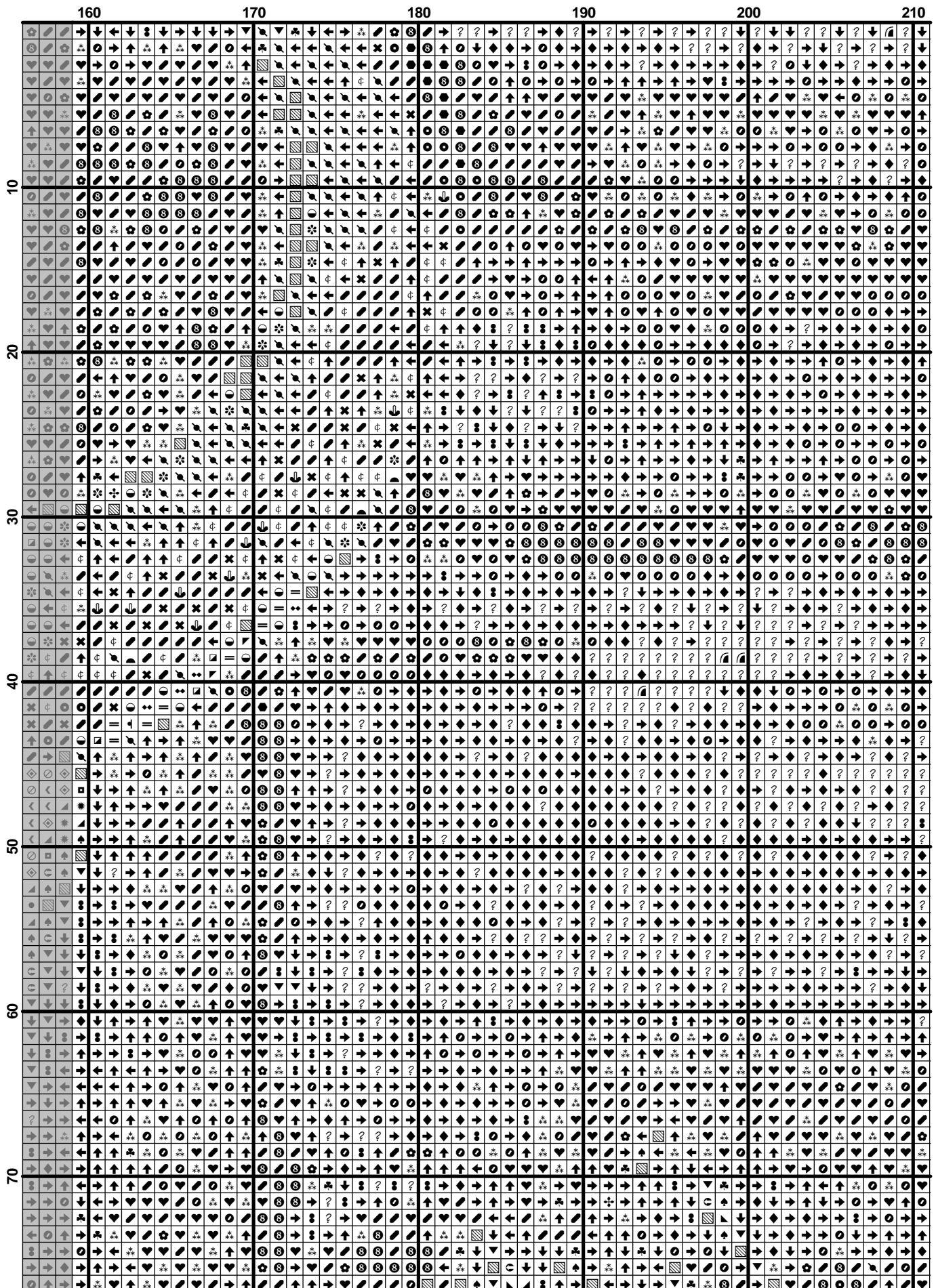
830	Golden Olive-DK	311	122	290	114	272	107
831	Golden Olive-MD	41	16	38	15	36	14
838	Beige Brown-VY DK	136	53	127	50	119	47
839	Beige Brown-DK	885	348	826	325	775	305
844	Beaver Brown-UL DK	239	94	223	88	209	82
869	Hazelnut Brown-VY DK	107	42	100	39	94	37
898	Coffee Brown-VY DK	1799	708	1679	661	1574	619
921	Copper	67	26	62	24	59	23
922	Copper-LT	12	5	11	4	11	4
926	Gray Green-MD	53	21	50	19	47	18
927	Gray Green-LT	22	8	20	8	19	7
928	Gray Green-VY LT	79	31	74	29	69	27
934	Black Avocado Green	1152	453	1075	423	1008	397
935	Avocado Green-DK	987	388	922	362	864	340
936	Avocado Green-VY DK	1211	476	1130	445	1060	417
938	Coffee Brown-UL DK	1206	474	1126	443	1055	415
948	Peach-VY LT	69	27	65	25	61	24
975	Golden Brown-DK	154	60	143	56	134	53
3011	Khaki Green-DK	593	233	553	217	519	204
3012	Khaki Green-MD	435	171	406	160	380	150
3013	Khaki Green-LT	213	84	199	78	187	73
3021	Brown Gray-VY DK	975	384	910	358	853	336
3022	Brown Gray-MD	400	157	373	146	350	137
3023	Brown Gray-LT	108	42	101	40	95	37
3024	Brown Gray-VY LT	84	33	79	31	74	29
3031	Mocha Brown-VY DK	2760	1086	2576	1014	2415	951
3032	Mocha Brown-MD	220	86	205	80	192	75
3045	Yellow Beige-DK	190	75	177	70	166	65
3052	Green Gray-MD	1189	468	1110	437	1041	410
3053	Green Gray	748	294	698	274	654	257
3072	Beaver Gray-VY LT	84	33	78	31	73	29
3362	Pine Green-DK	827	325	772	304	724	285
3364	Pine Green	49	19	46	17	43	16
3371	Black Brown	118	46	110	43	104	41
3753	Antique Blue-UL VY LT	14	5	13	5	12	5
3756	Baby Blue-UL VY LT	53	21	49	19	46	18
3770	Tawny-VY LT	35	14	33	13	31	12
3778	Terra Cotta-LT	36	14	34	13	32	12
3781	Mocha Brown-DK	565	222	527	208	494	195
3782	Mocha Brown-LT	508	200	474	187	444	175
3787	Brown Gray-DK	995	392	928	365	870	343
3799	Pewter Gray-VY DK	240	95	224	88	210	83
3824	Apricot-LT	24	9	22	8	21	8
3827	Golden Brown-Pale	36	14	34	13	32	12
3828	Hazelnut Brown	129	51	121	47	113	44
3829	Old Gold-VY DK	24	9	23	8	21	8
3830	Terra Cotta-MD	50	19	47	18	44	17
3855	Autumn Gold-LT	6	2	5	2	5	2
3856	Mahogany-UL VY LT	50	19	46	18	43	17
3862	Mocha Beige-DK	358	141	334	131	313	123
3863	Mocha Beige-MD	598	235	558	220	523	206
3864	Mocha Beige-LT	91	35	85	33	80	31
3865	Winter White	20	8	19	7	17	7
ecru	Ecru	64	24	59	23	56	21

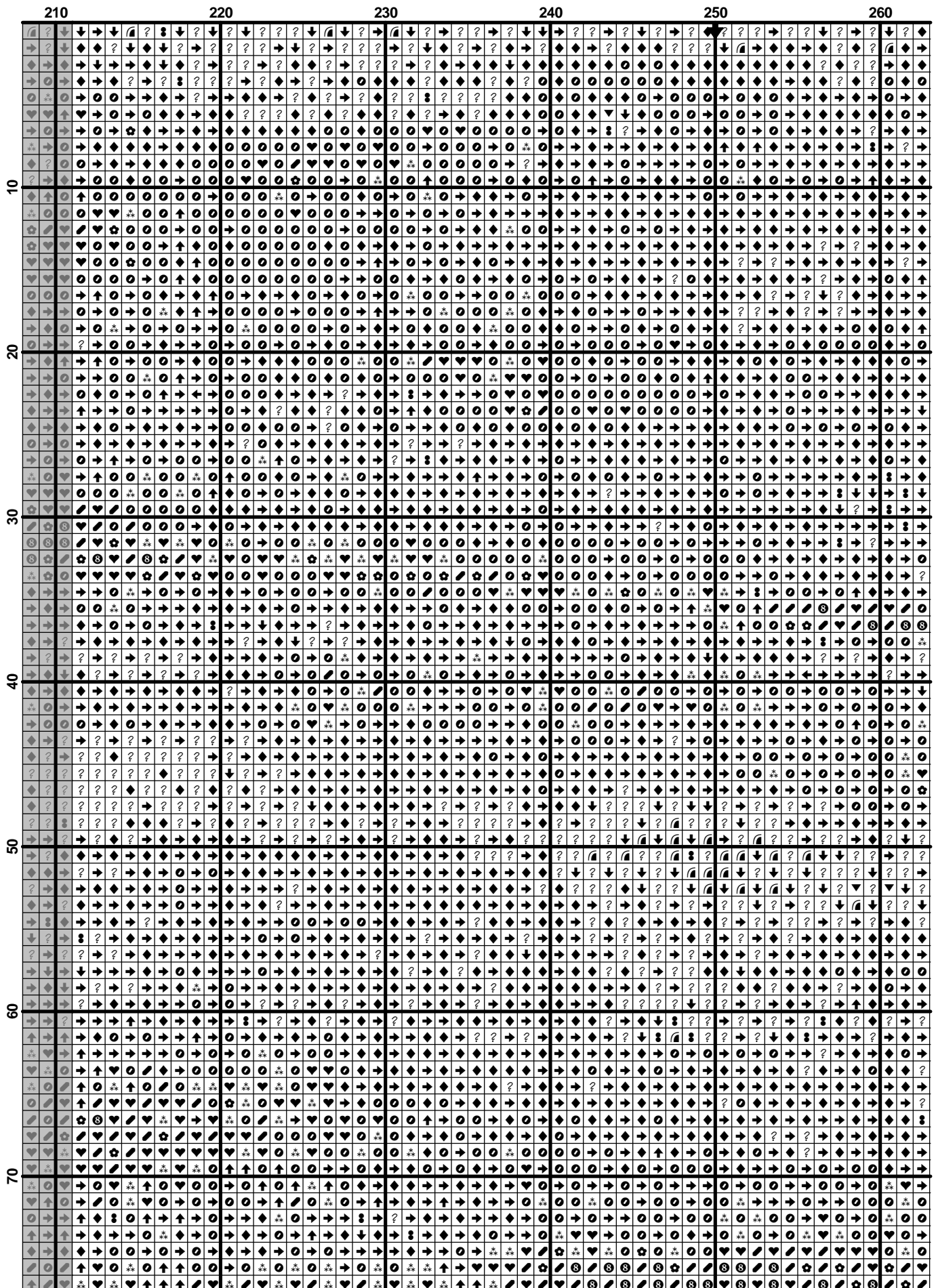


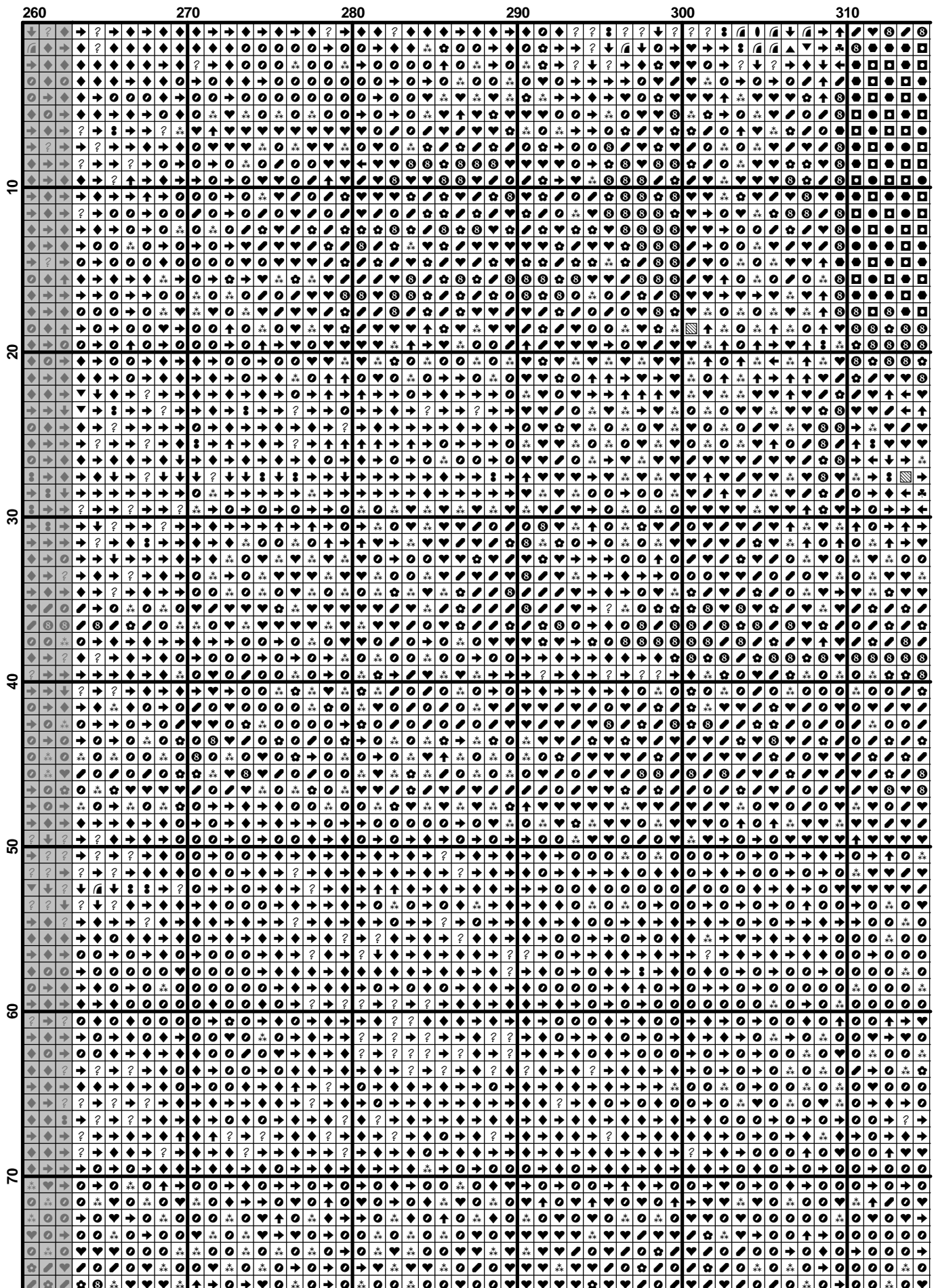
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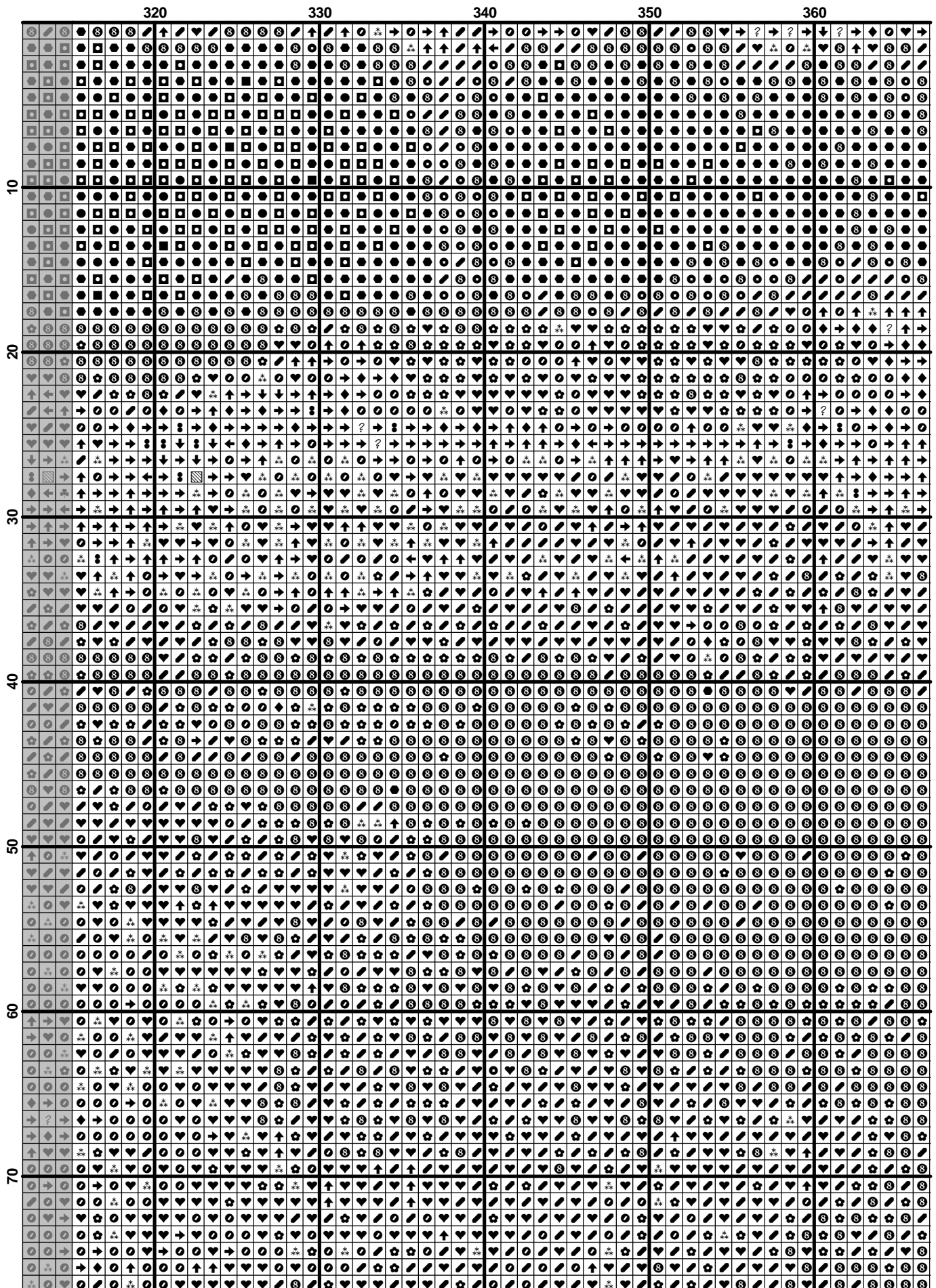
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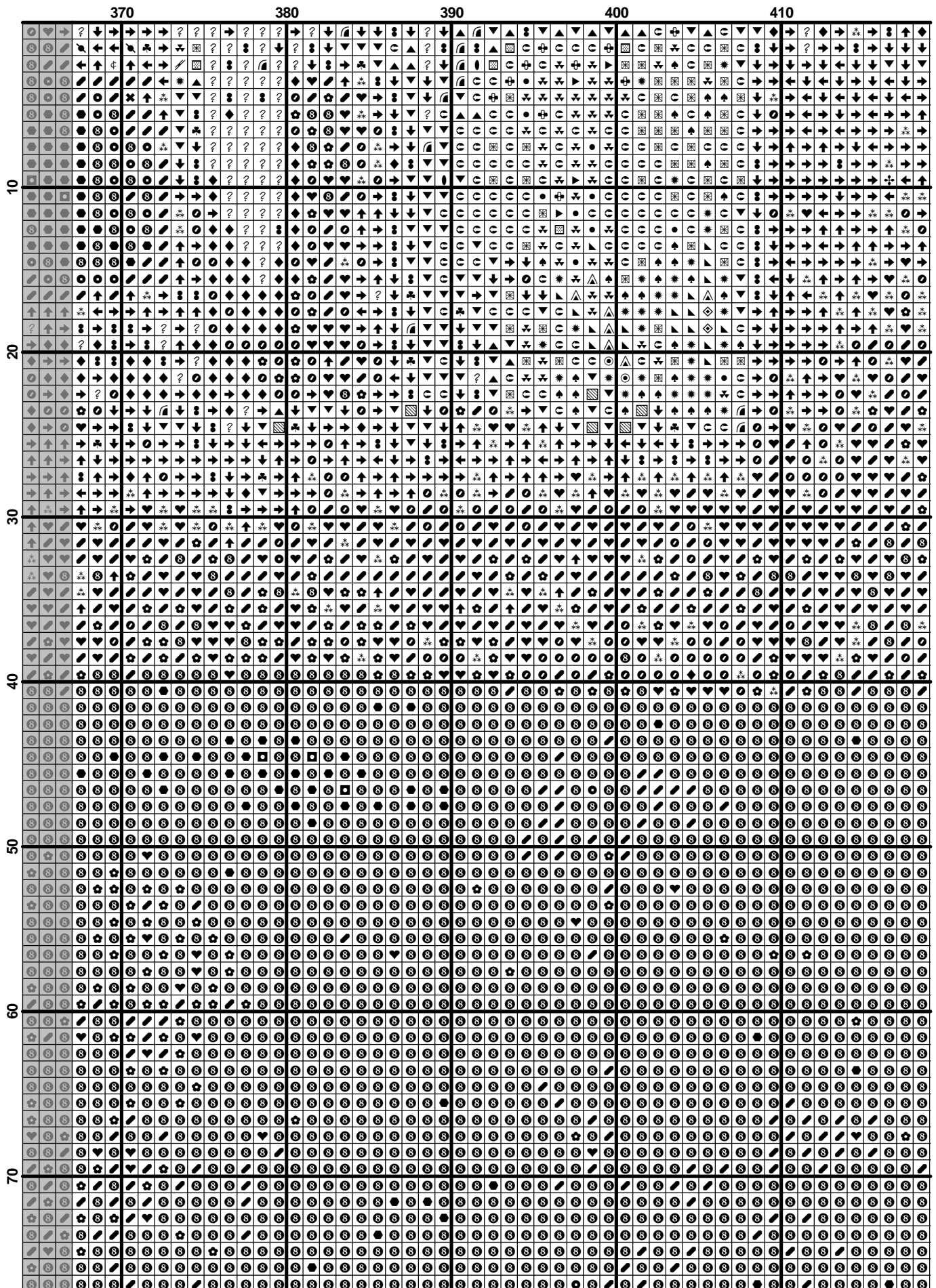


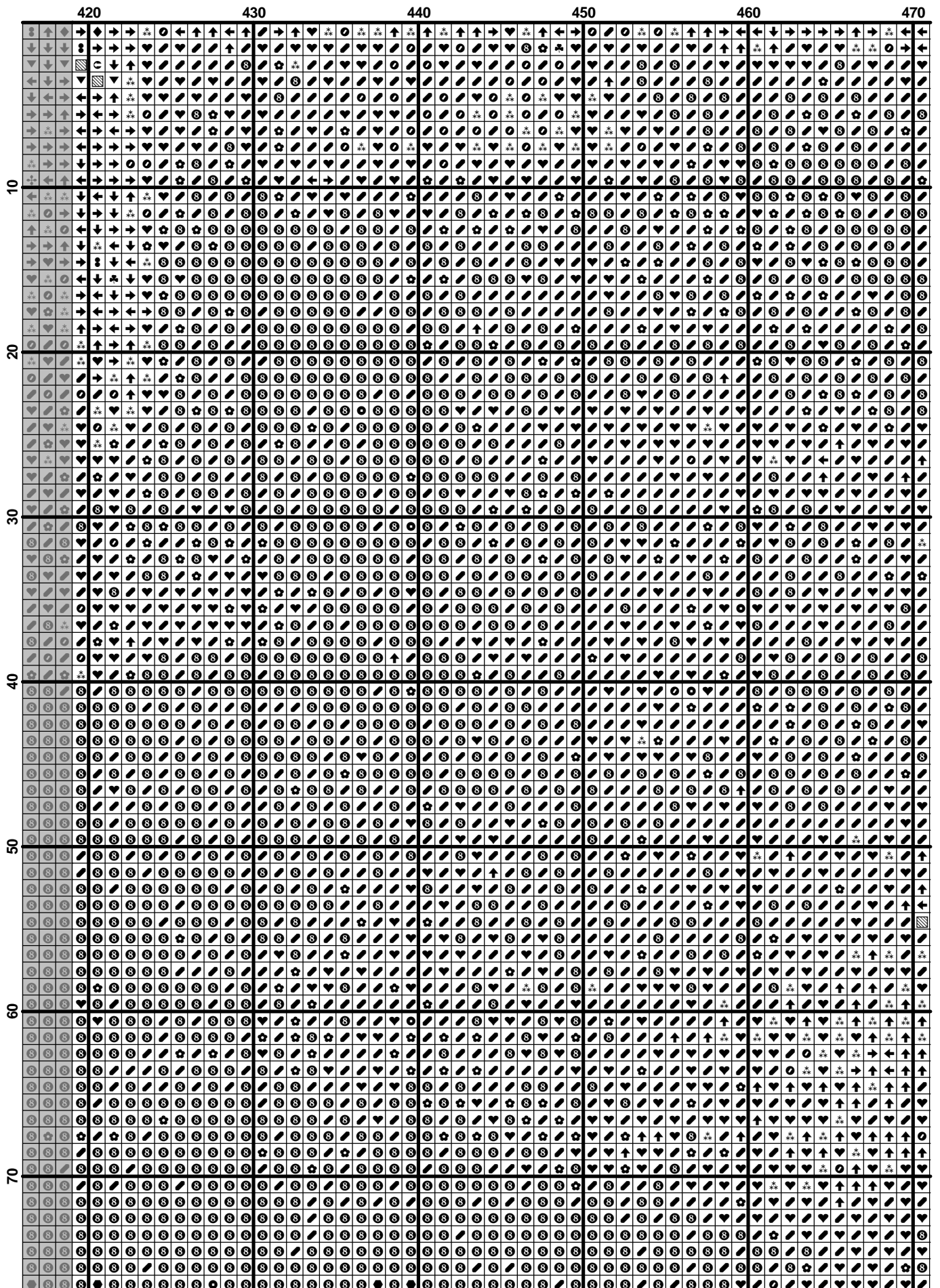


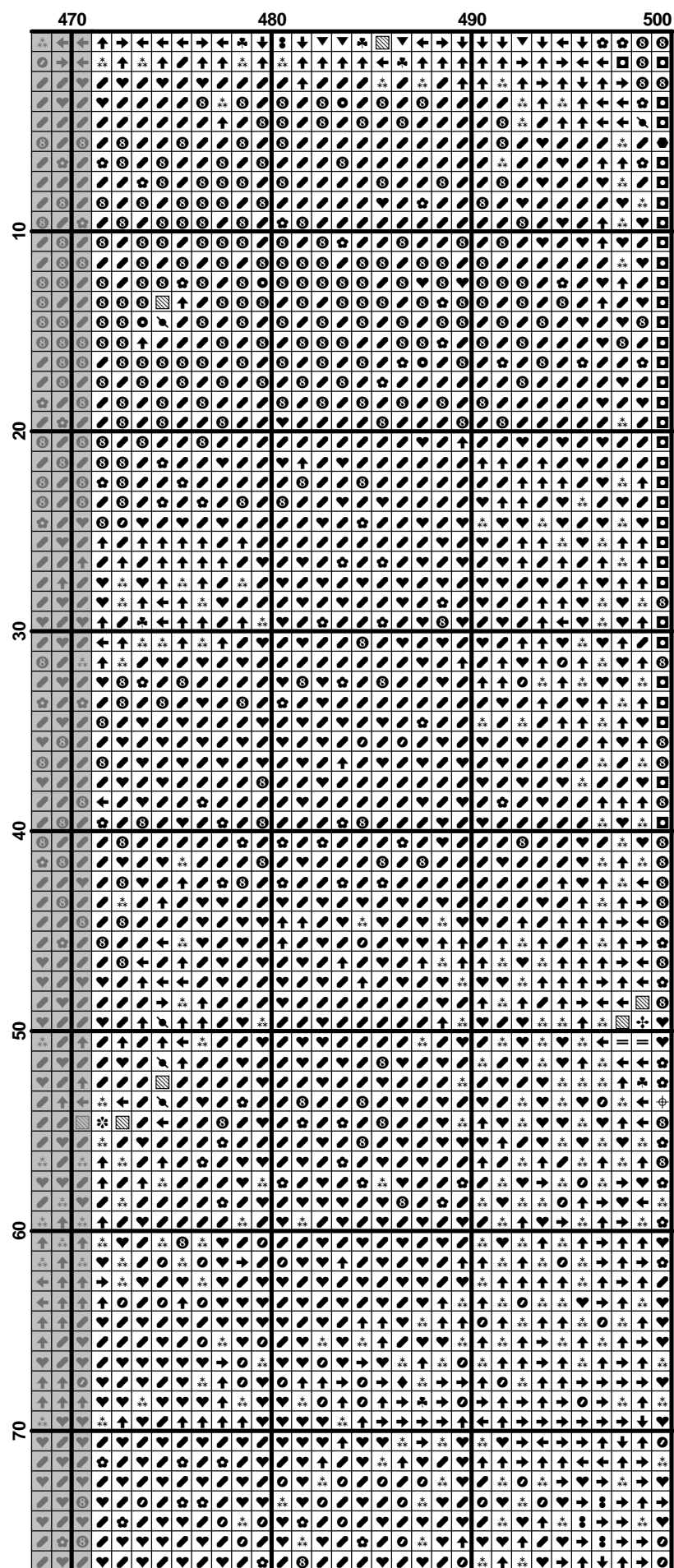










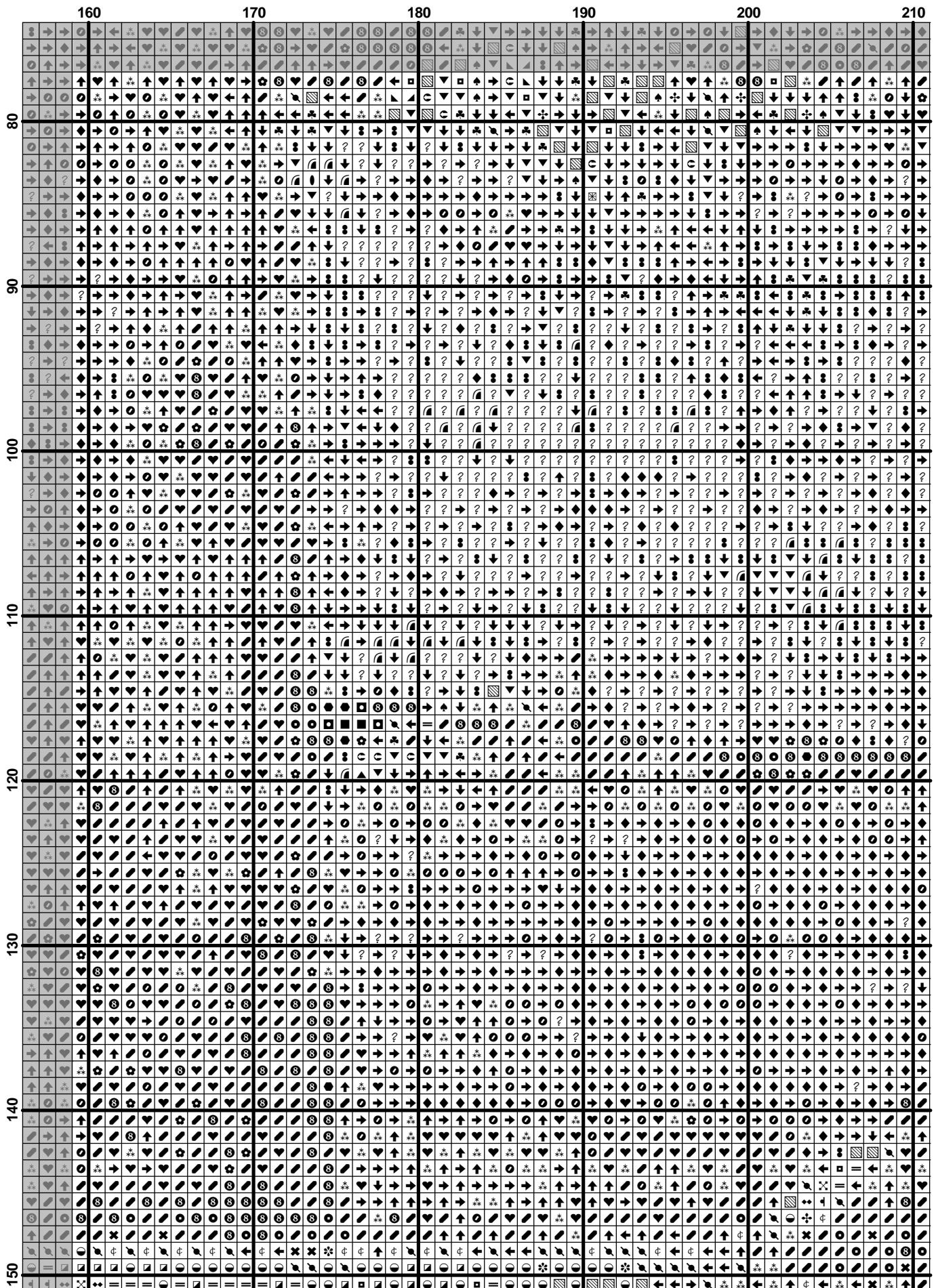


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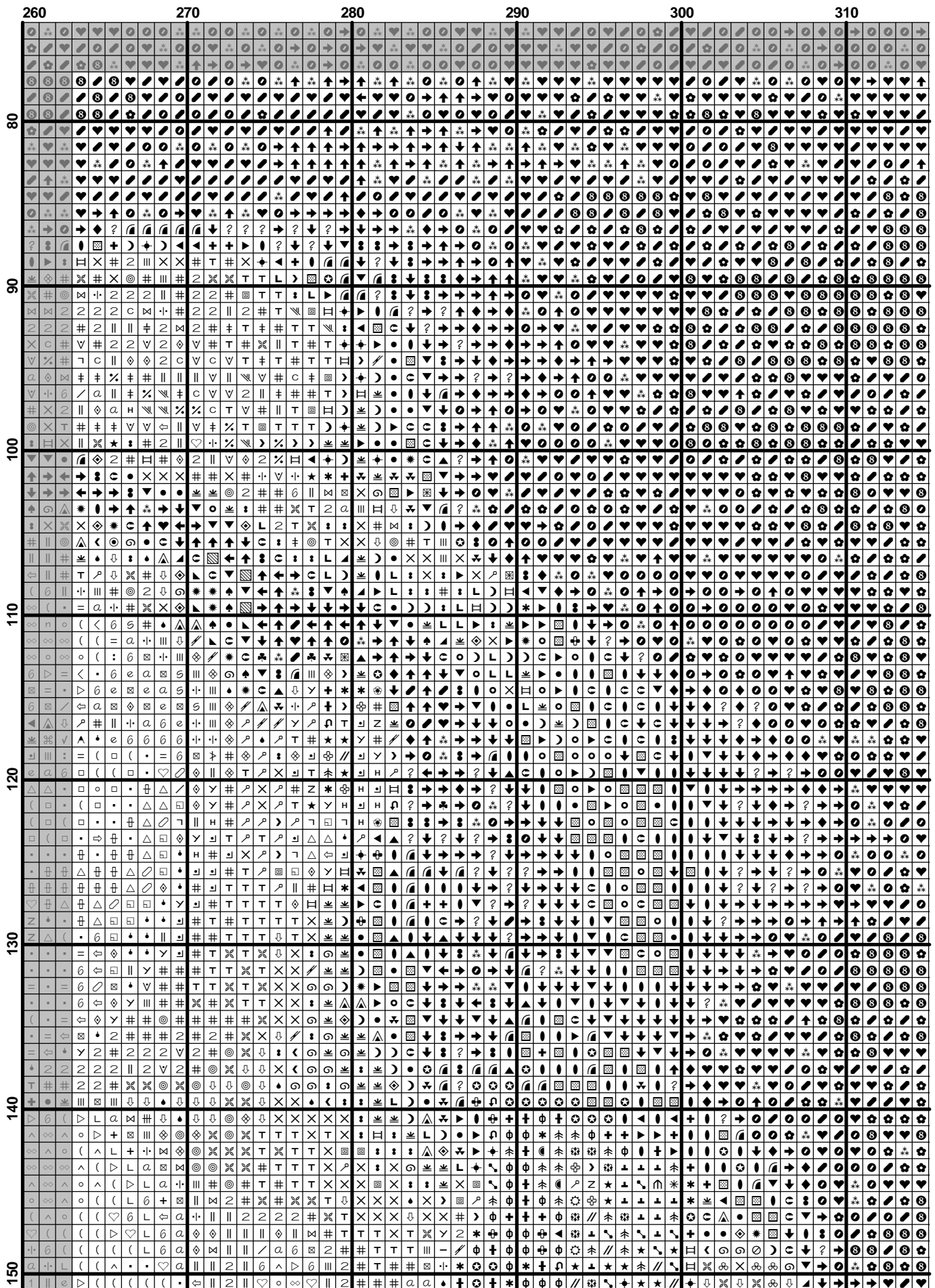
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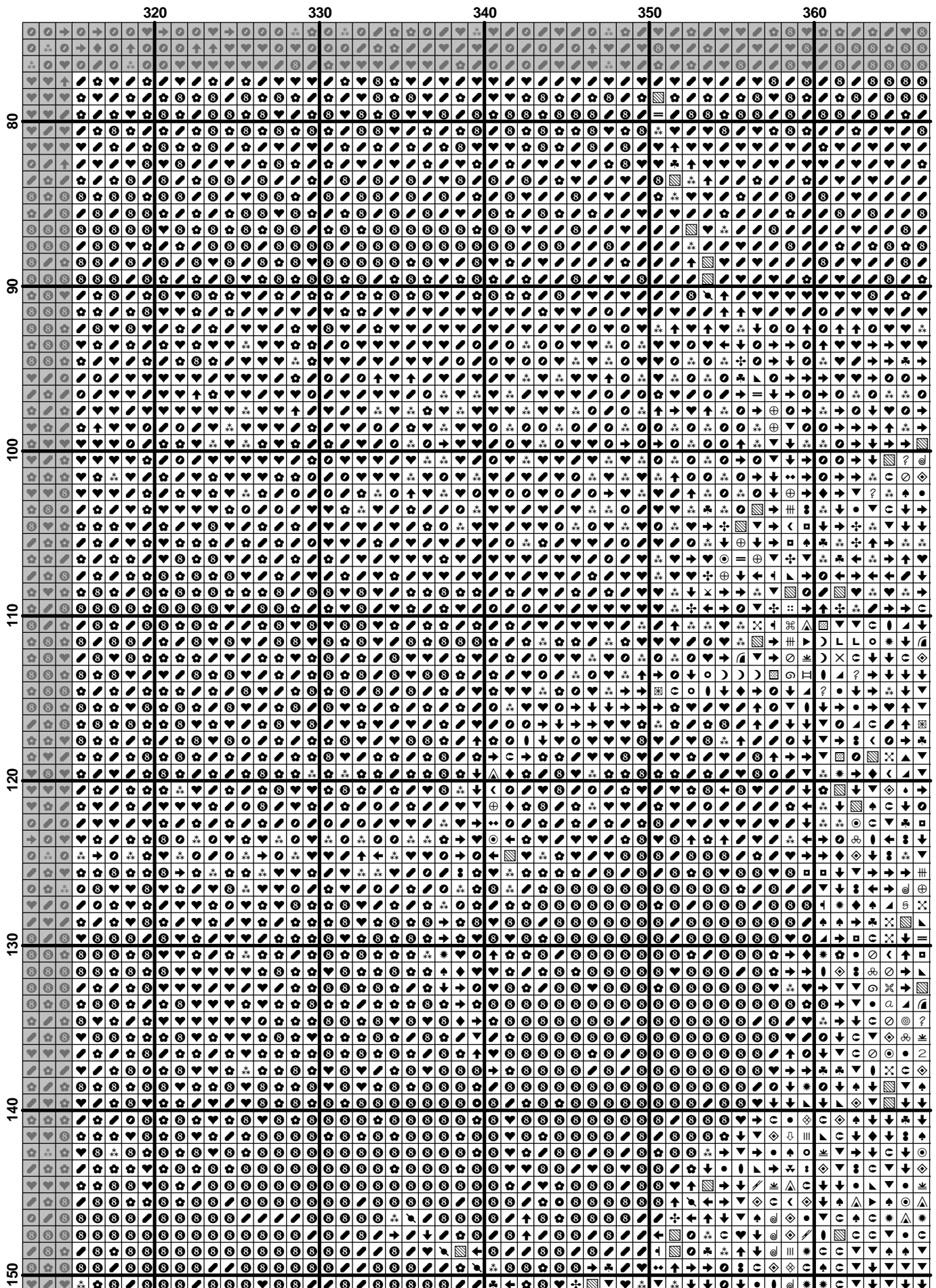


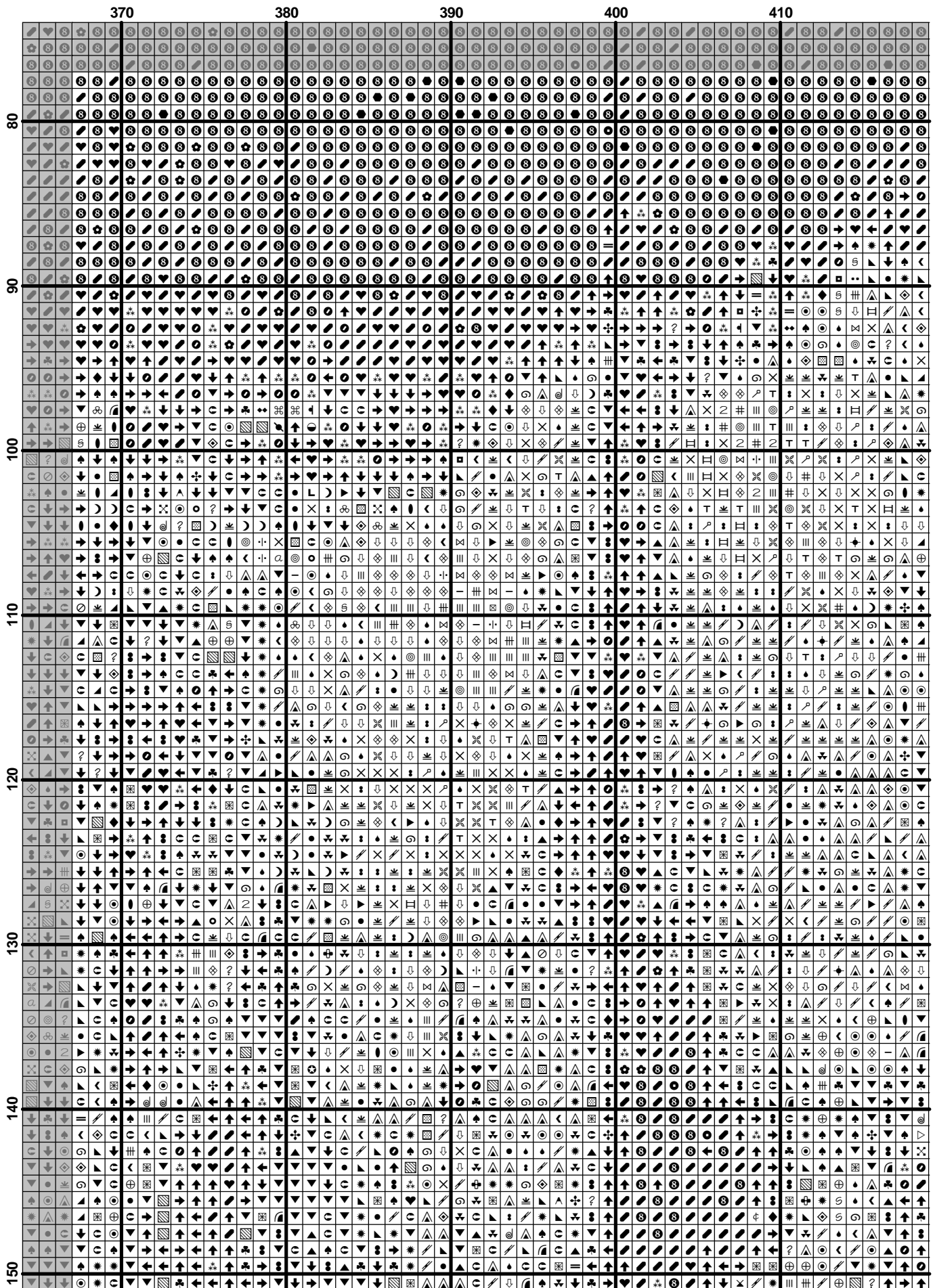
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140	...	...	...	...	...
150	...	...	...	...	...



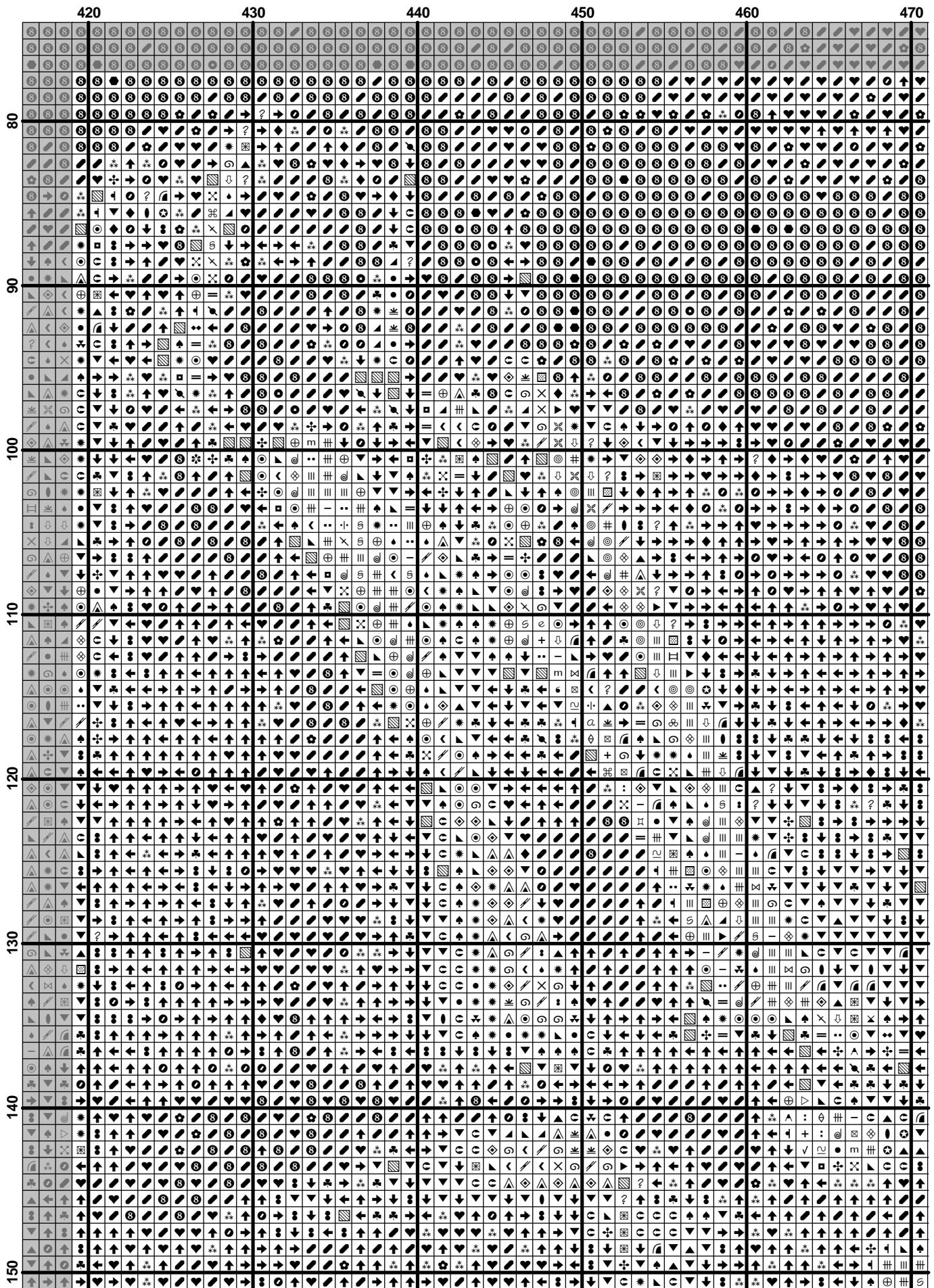
$$(25) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \cup \mathcal{L}(\mathcal{C}) \quad (26)$$









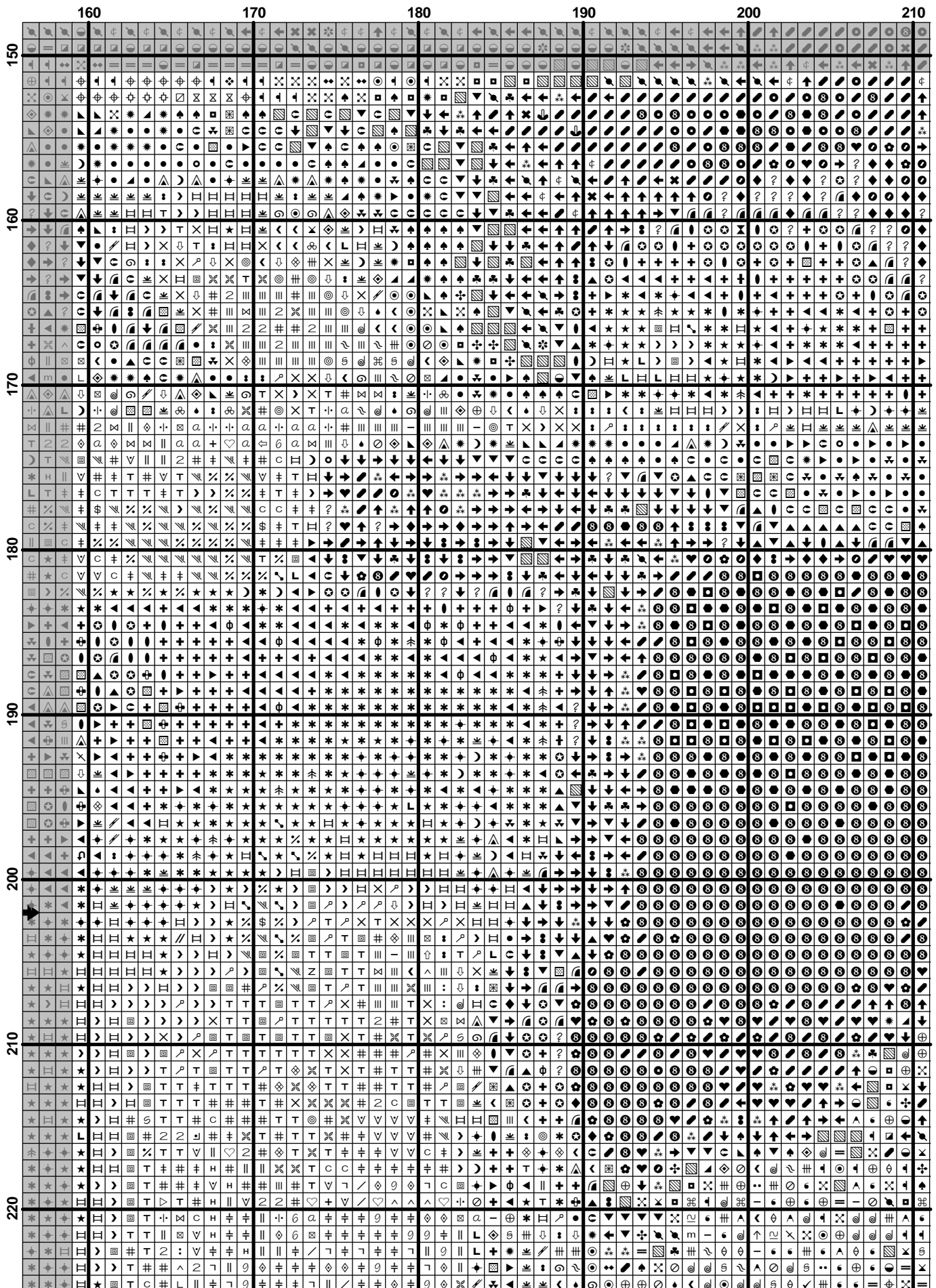




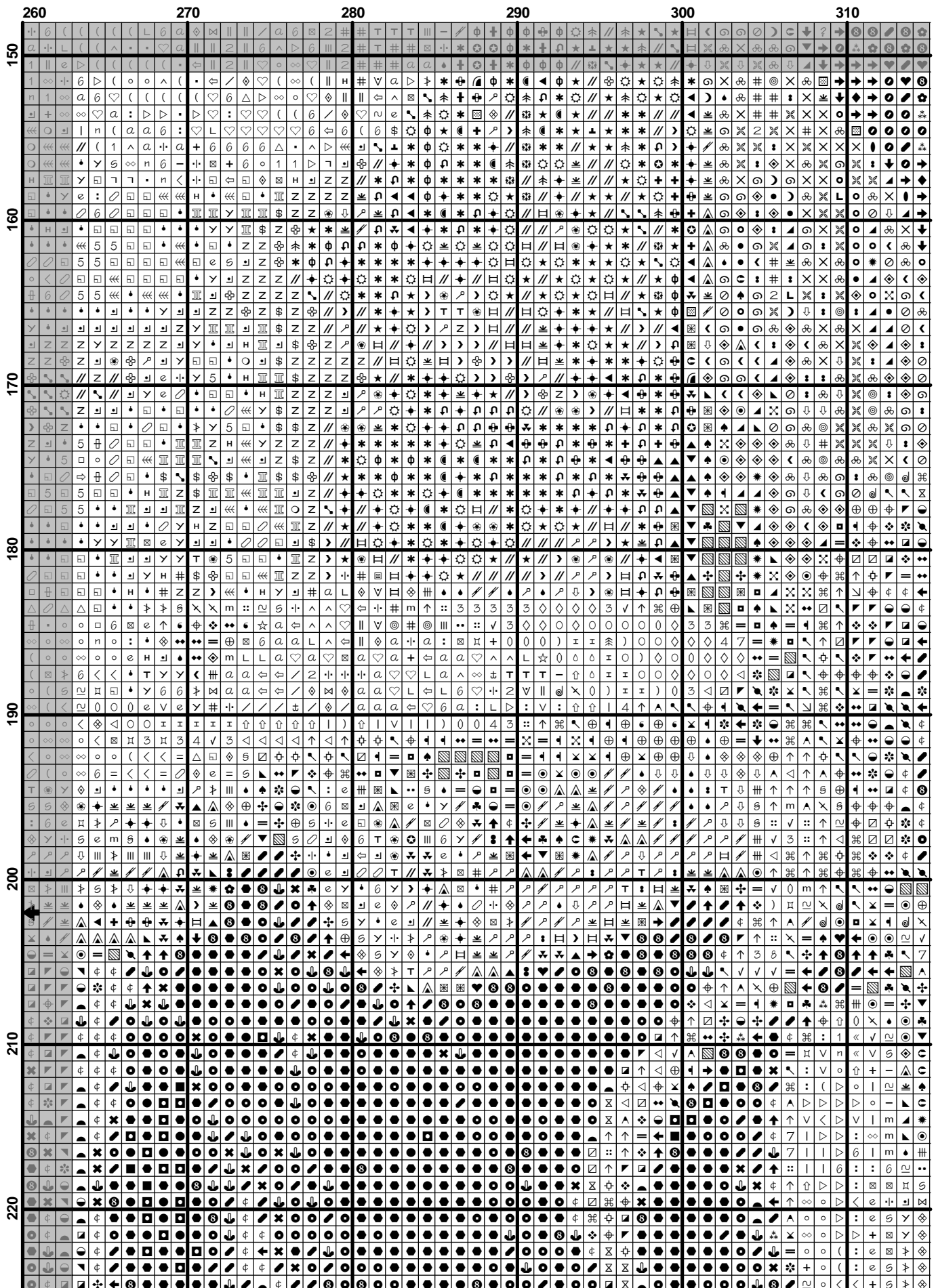
[illegible]

(33)

[illegible]

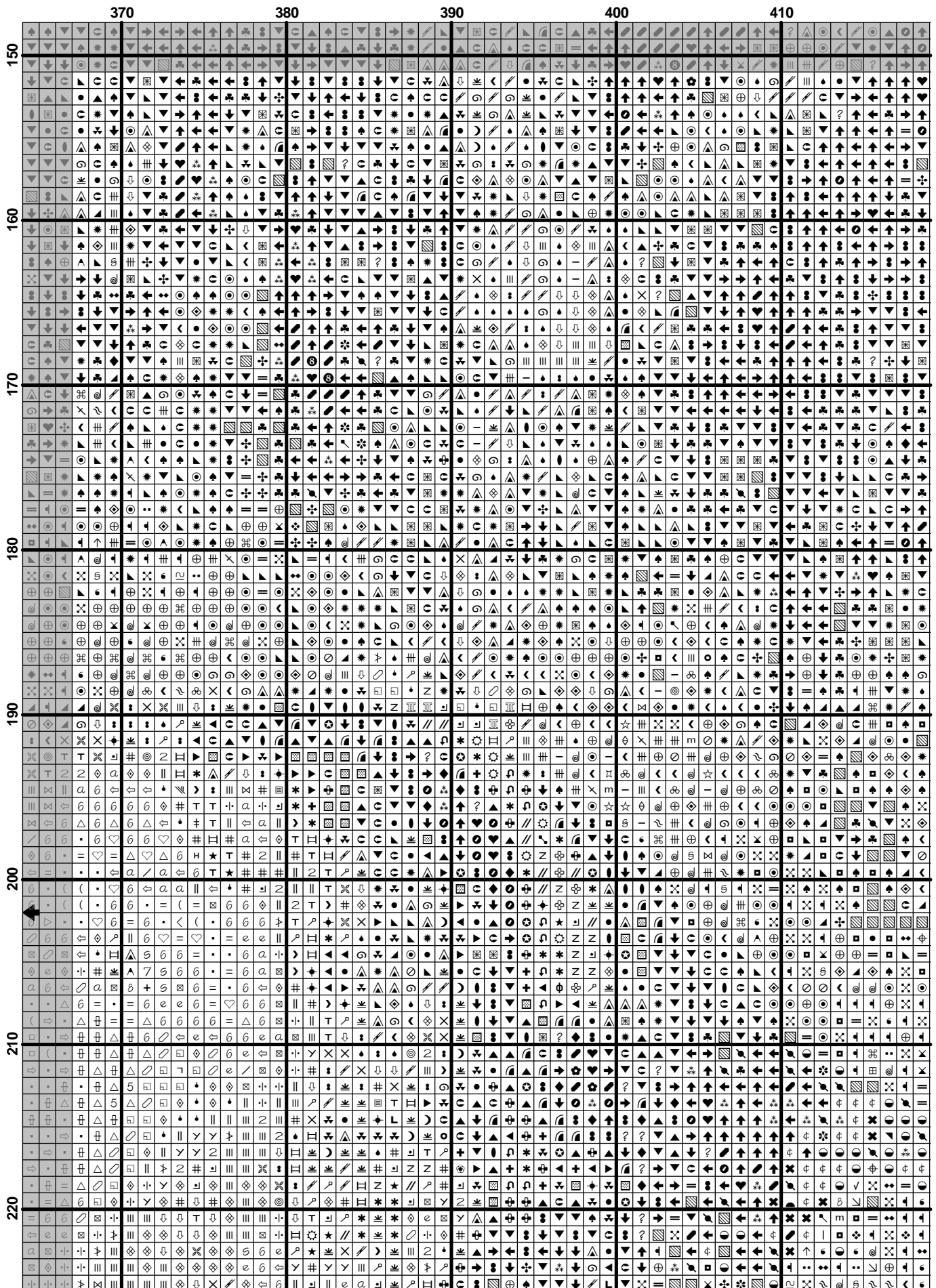


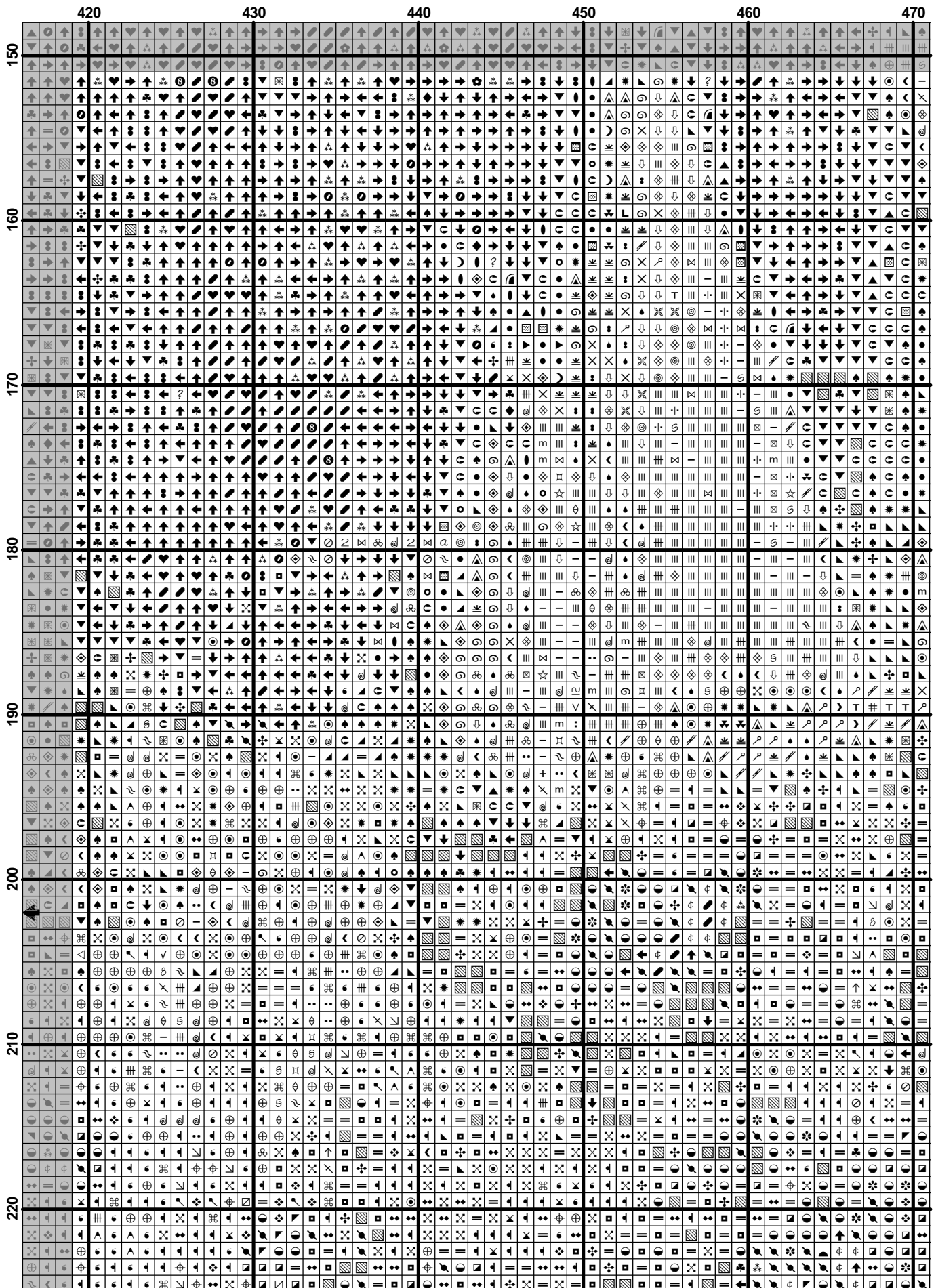
$$(35) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

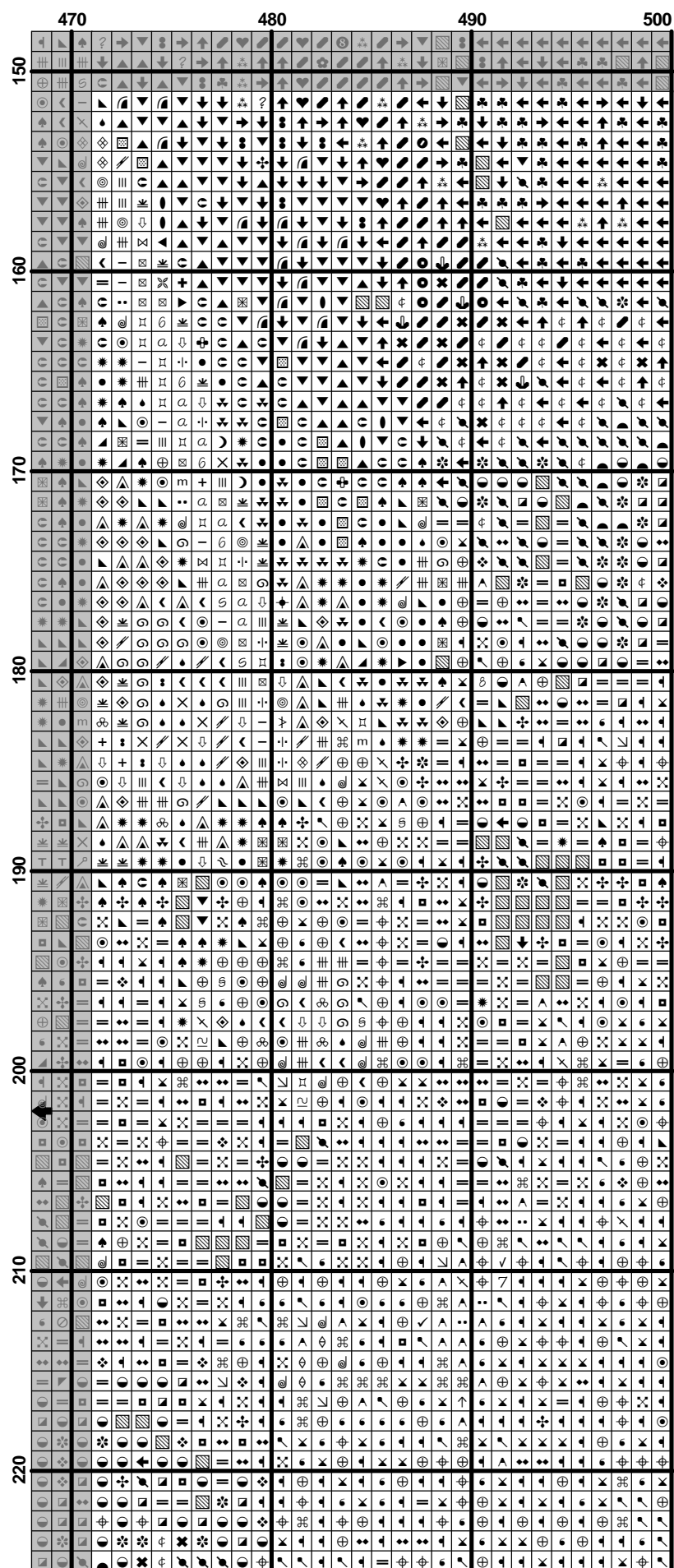


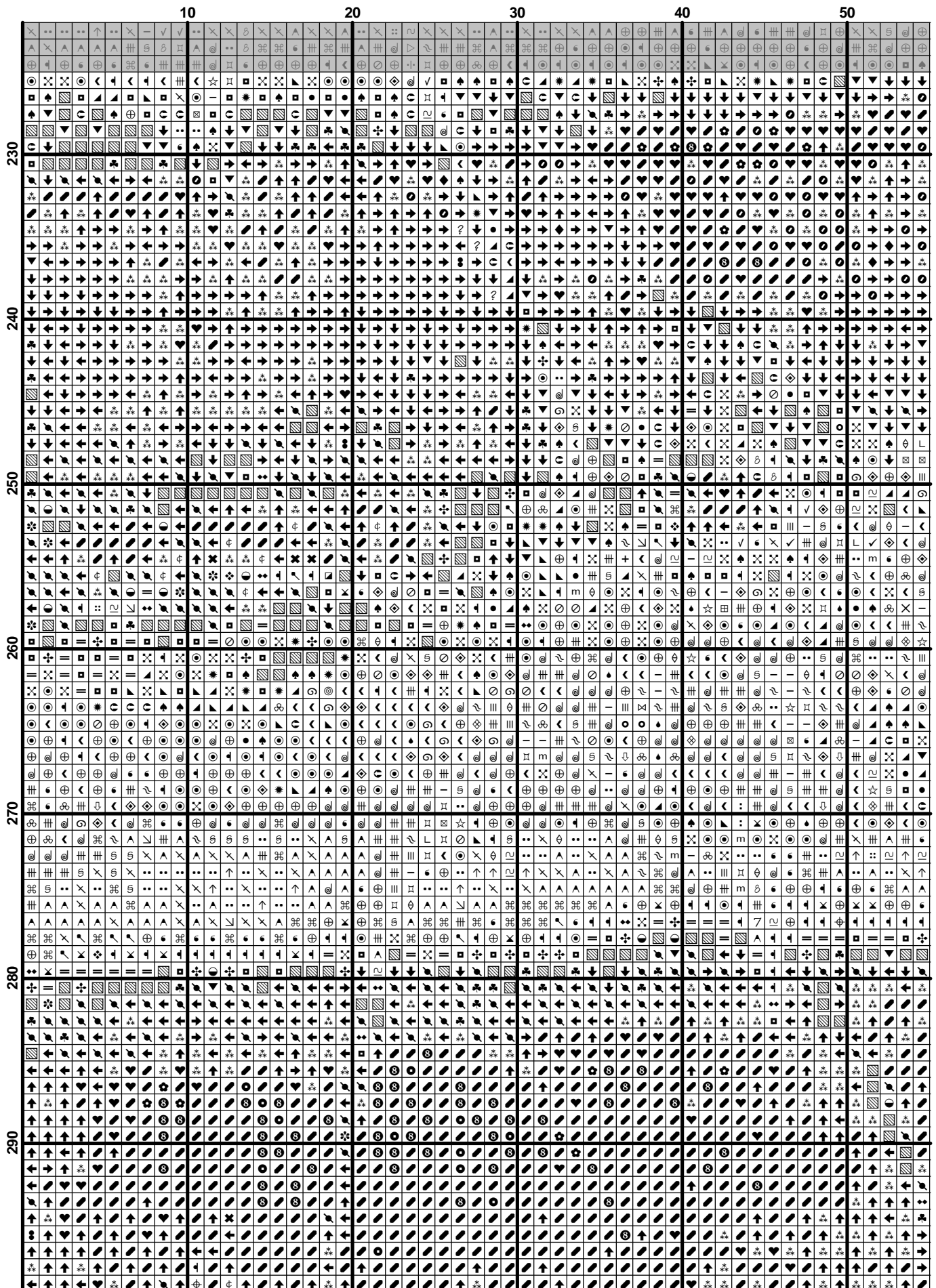


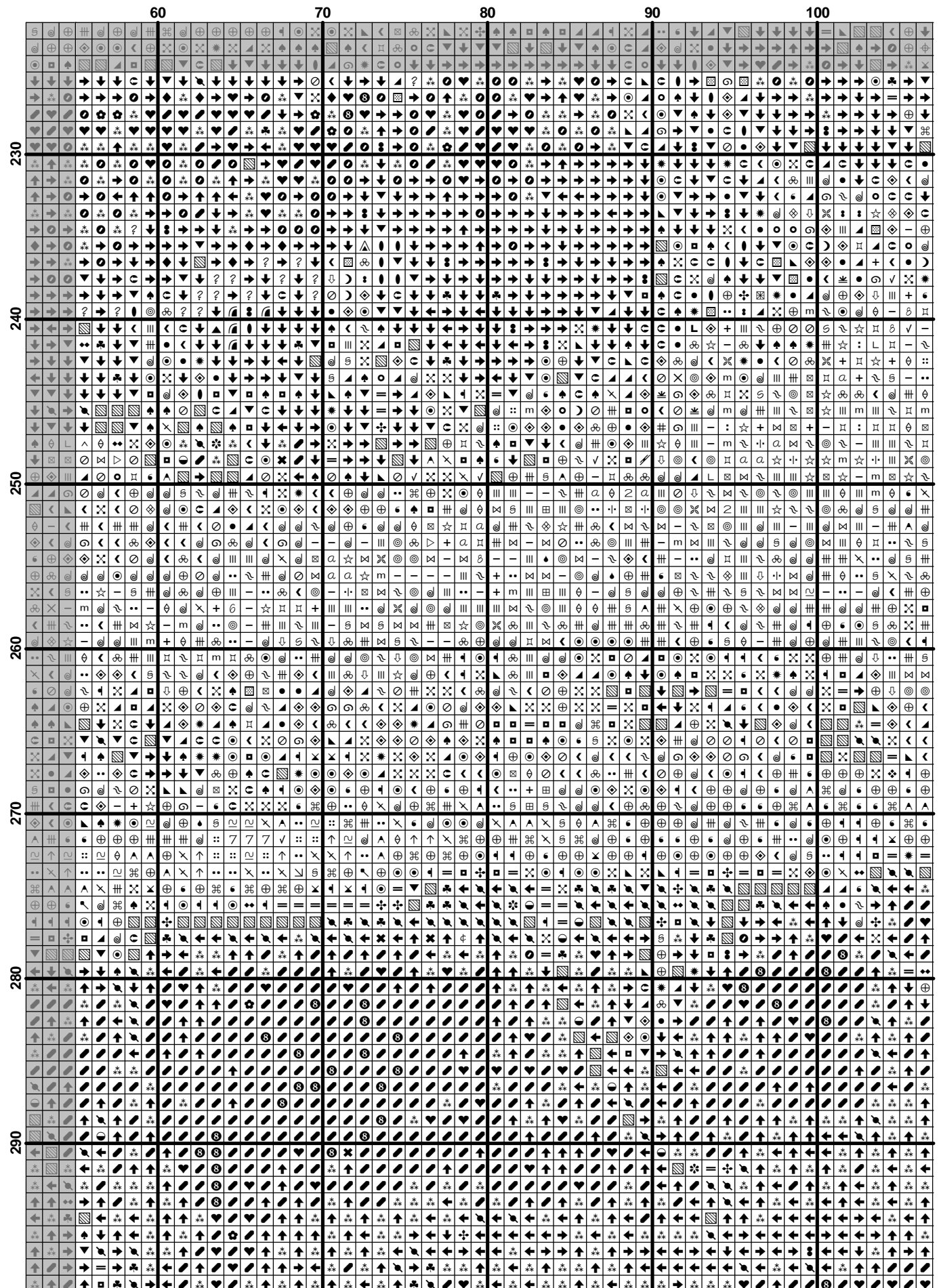
	320	330	340	350	360
150					
160					
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210					
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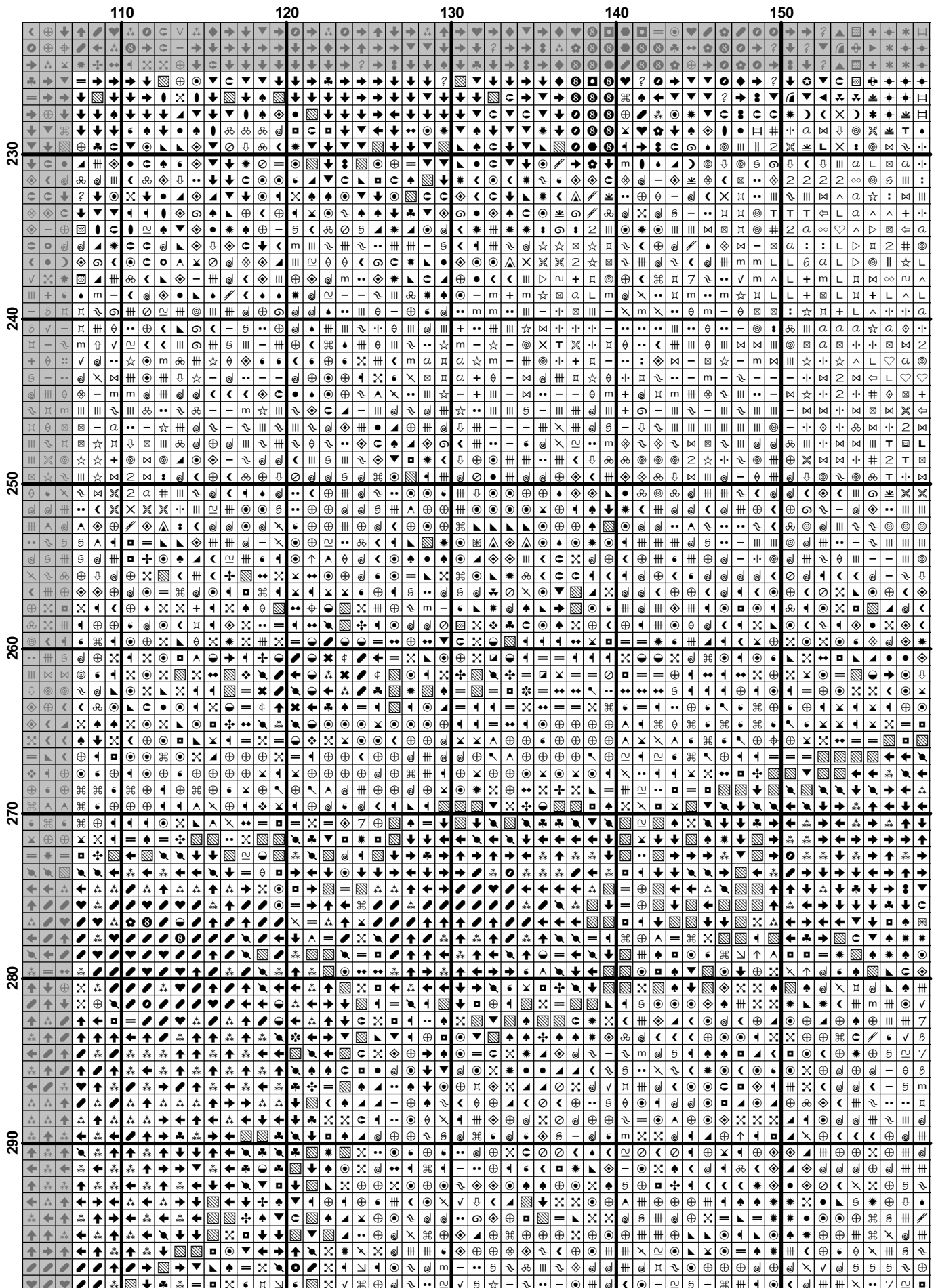








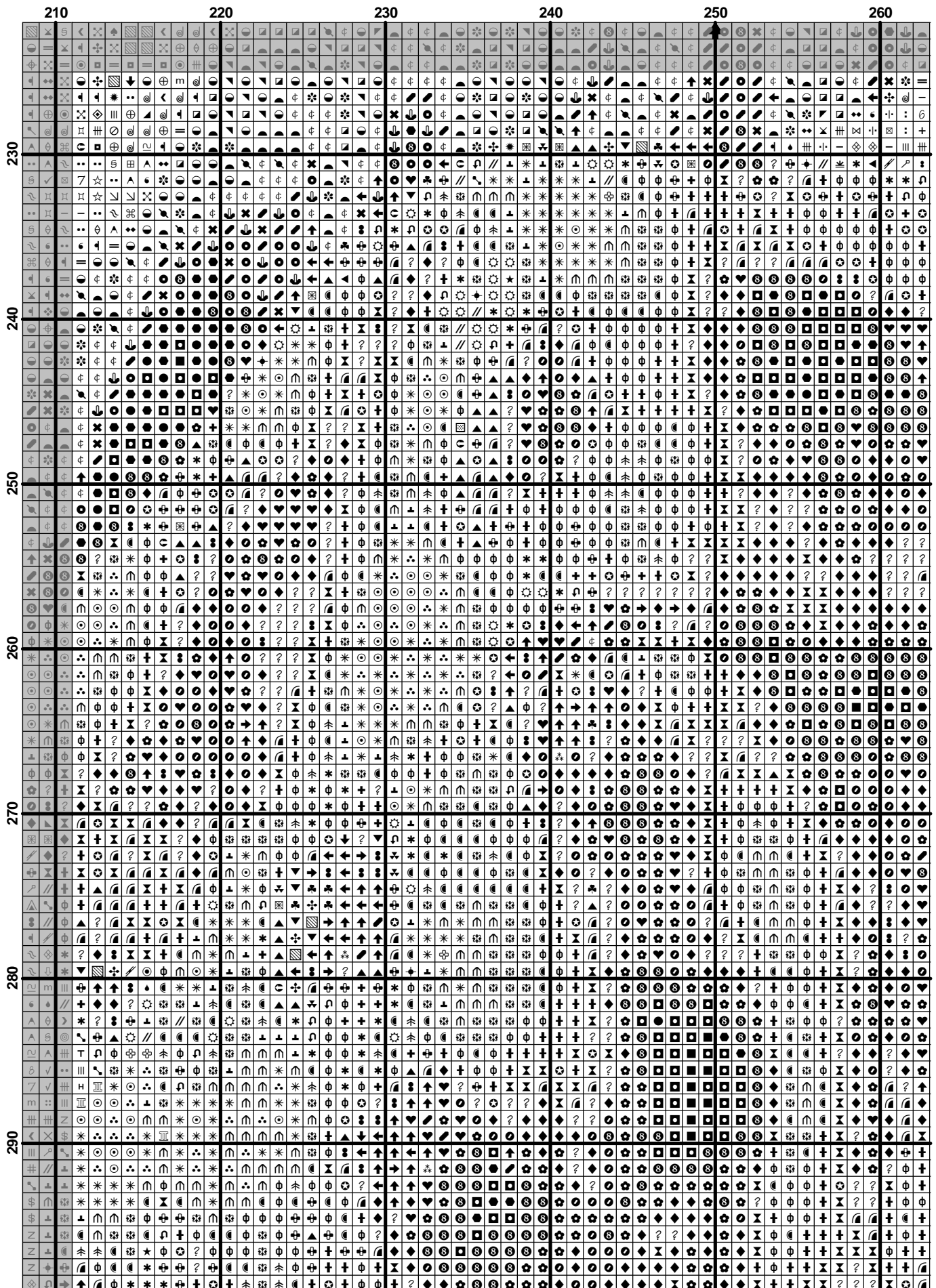


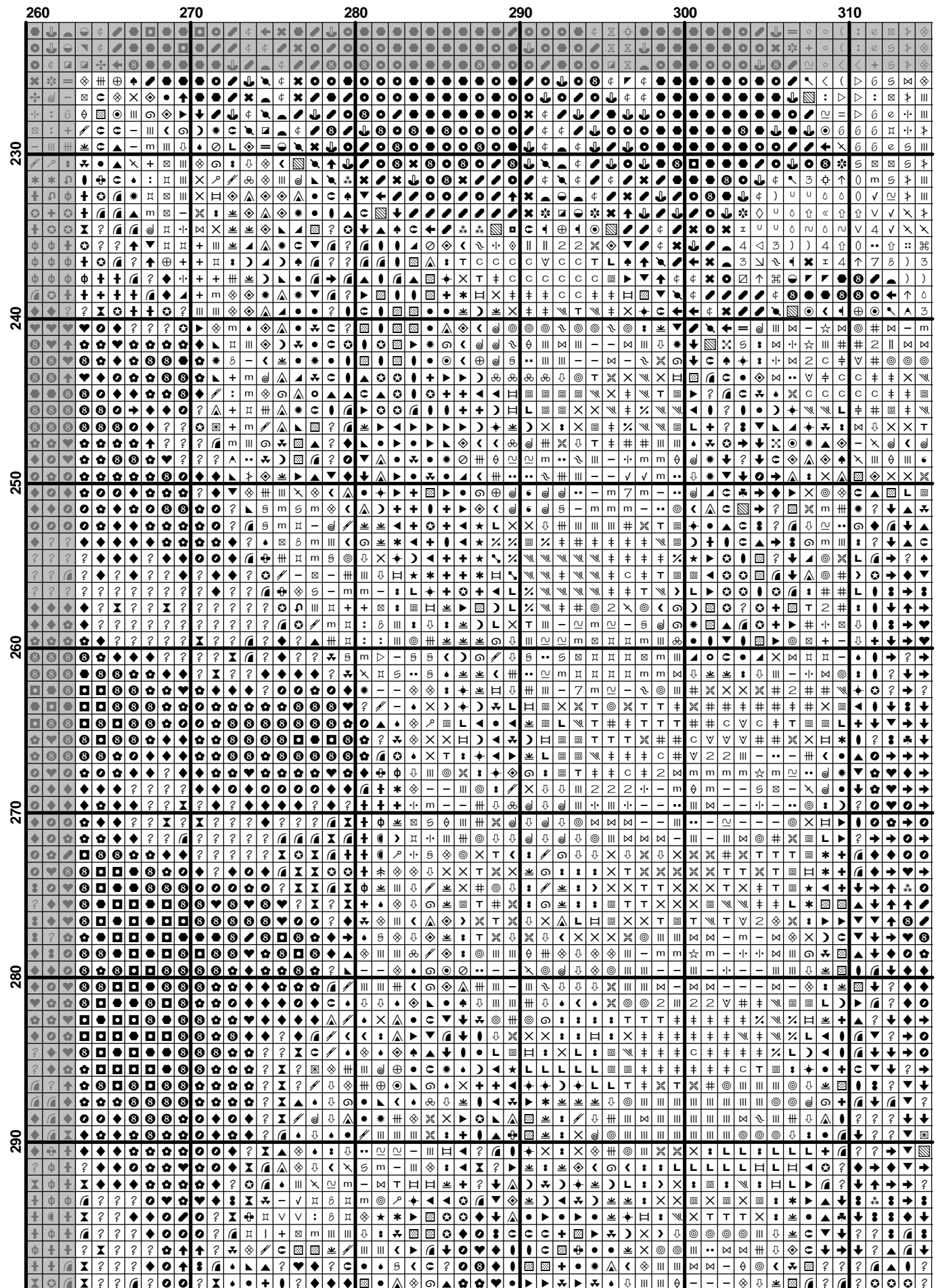




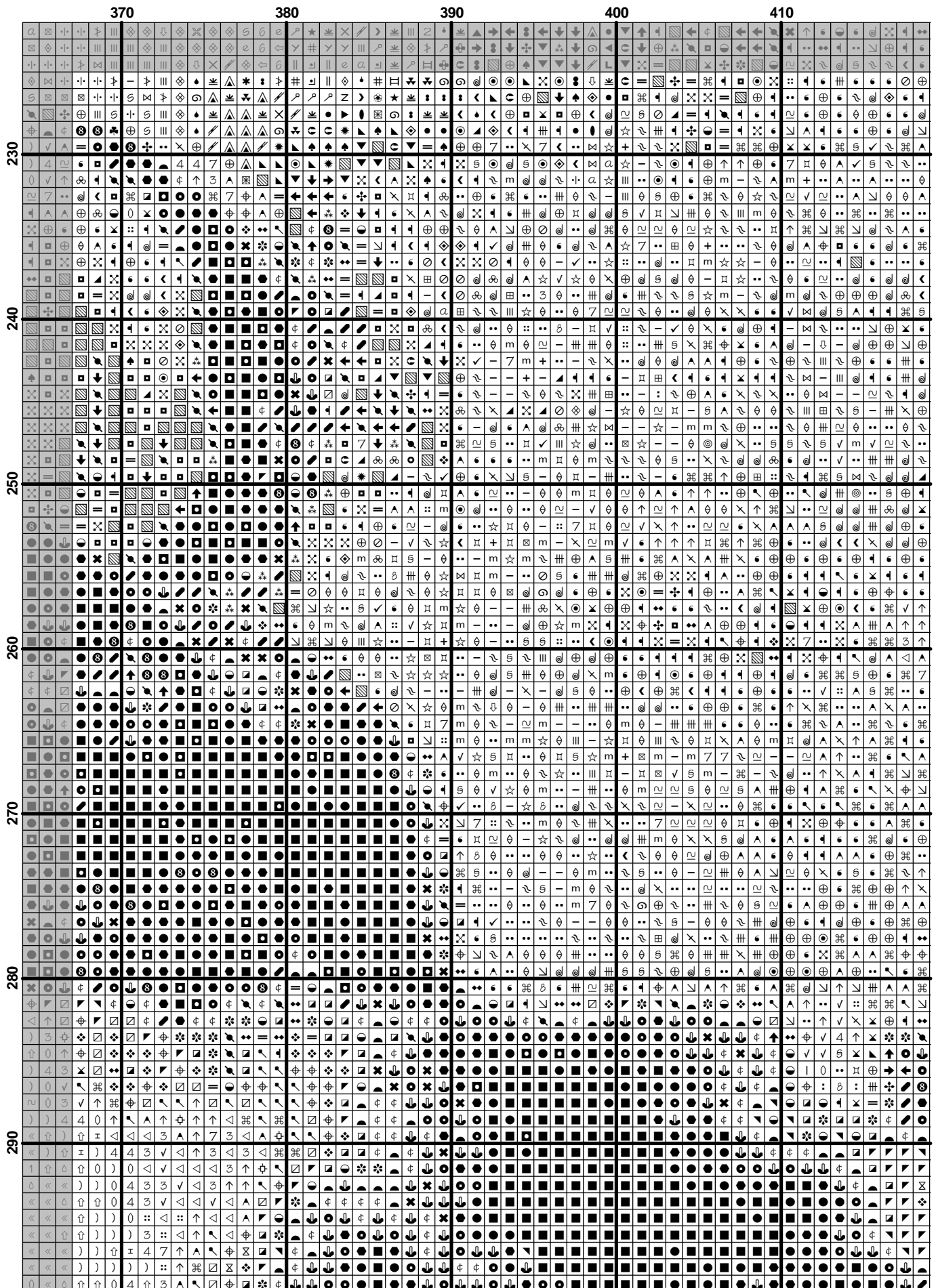
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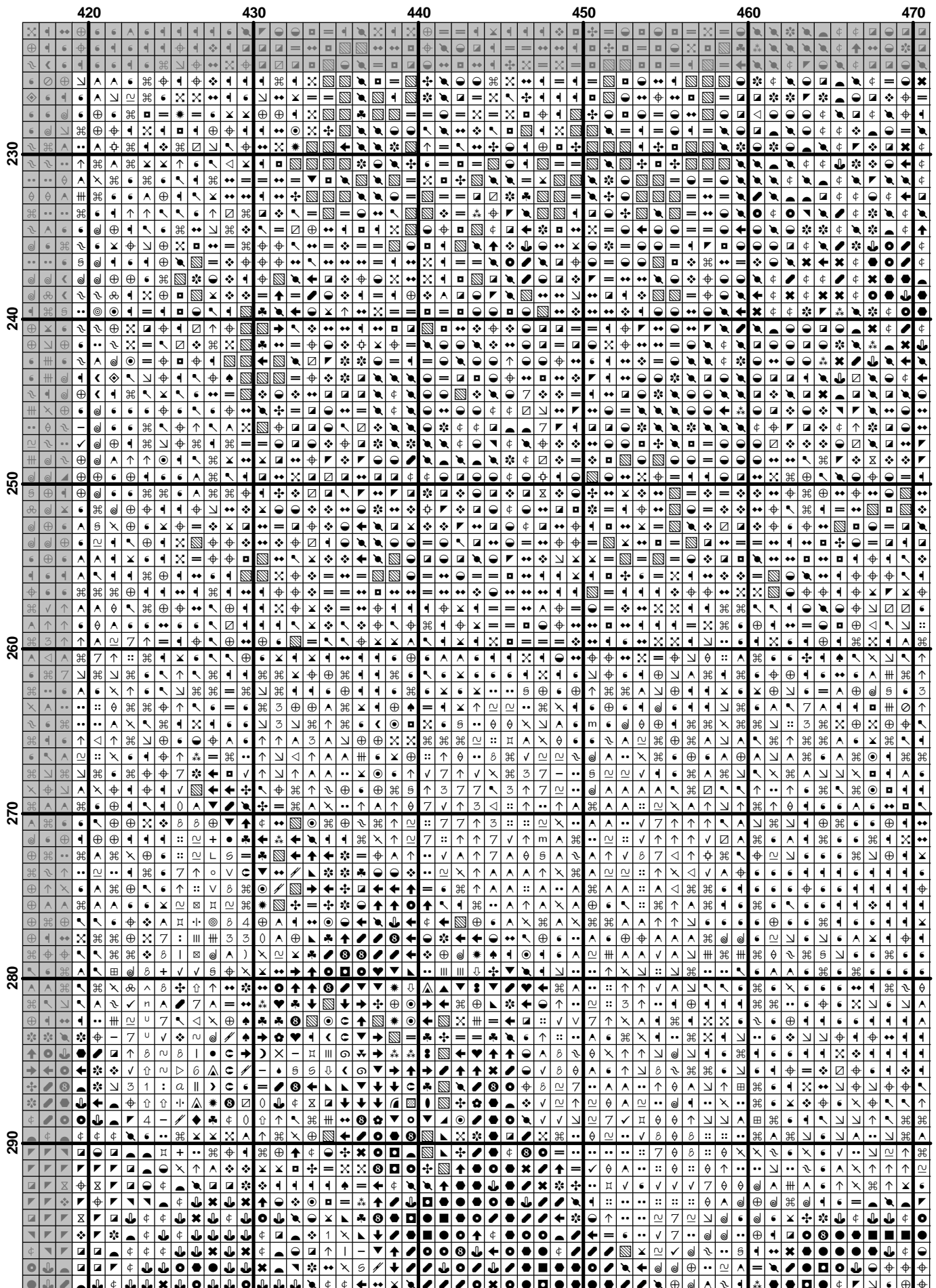


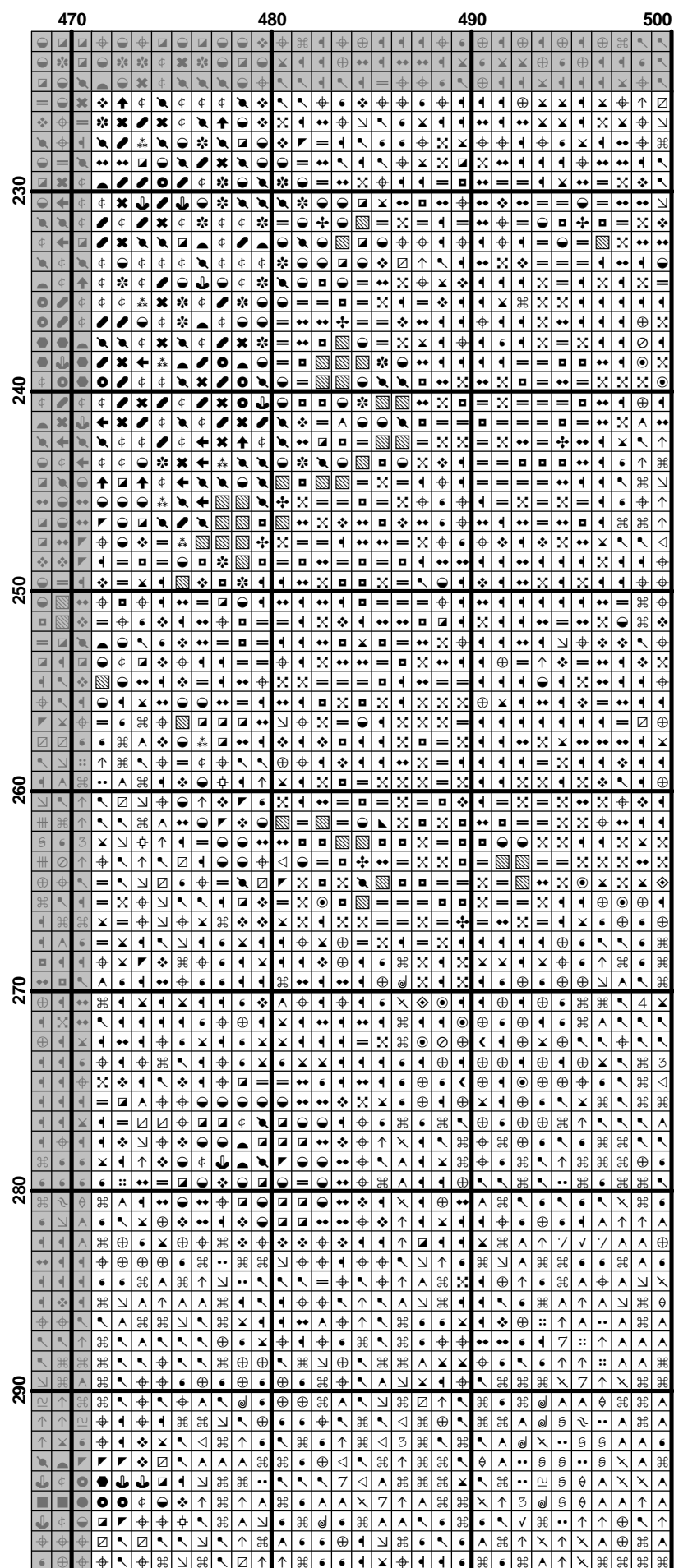


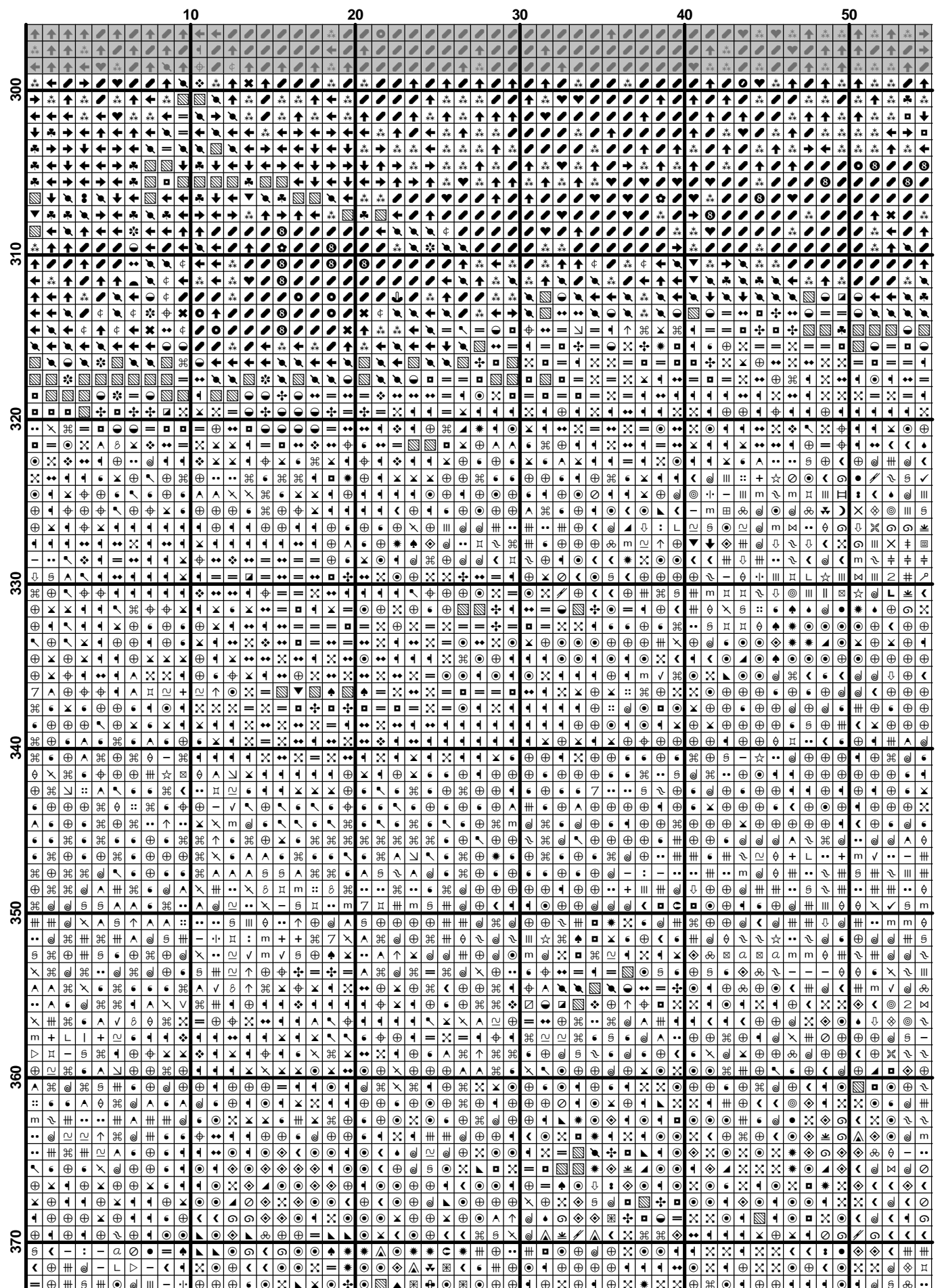


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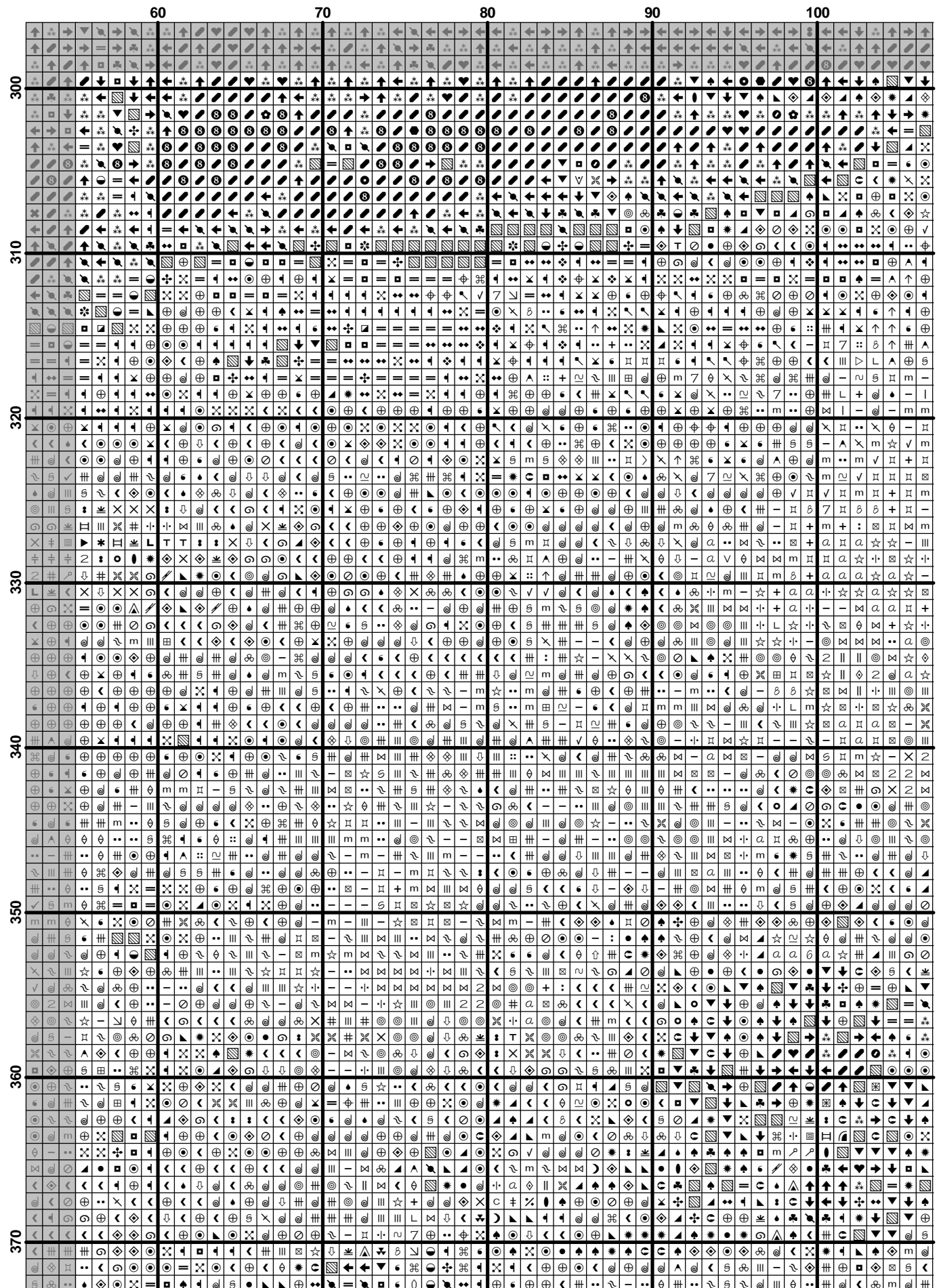




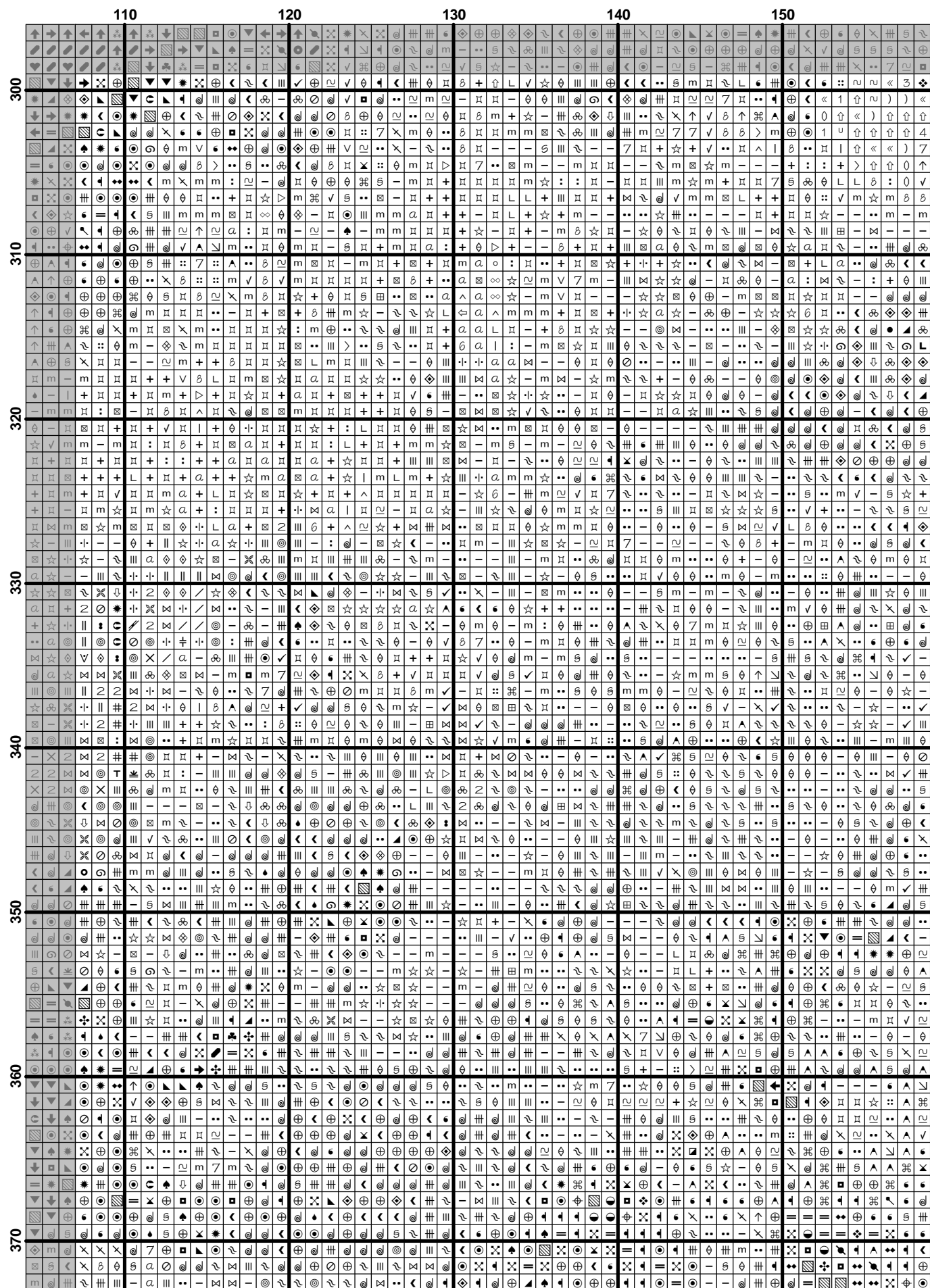












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370						

