

1112 Ariadne



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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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Ariadne

Stitch Count	
Horizontal:	533
Vertical:	321

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:	97	37.92	58	22.82	85	33.18	51	19.96	75	29.5	46	17.75
Including Margins:	113	44	74	29	101	40	67	26	91	36	62	24
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	135	53.08	81	31.94	113	44.24	67	26.62	56	22.12	33	13.31
Including Margins:	151	60	97	38	129	51	83	33	72	29	49	20
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	54	21.23	32	12.77	52	20.41	31	12.28	50	19.66	30	11.83
Including Margins:	70	28	48	19	68	27	47	19	66	26	46	18
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	48	18.96	29	11.41	45	17.69	27	10.64	42	16.59	25	9.98
Including Margins:	64	25	45	18	61	24	43	17	58	23	41	16

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
☒	210	Lavender-MD
⊕	211	Lavender-LT
☐	223	Shell Pink-LT
9	224	Shell Pink-VY LT
➔	300	Mahogany-VY DK
■	310	Black
Φ	315	Antique Mauve-VY DK
Н	318	Steel Gray-LT
●	355	Terra Cotta-DK
●	370	Mustard-MD
✕	371	Mustard
↑	407	Desert Sand-DK
⌈	420	Hazelnut Brown-DK
▲	433	Brown-MD
■	434	Brown-LT
◀	435	Brown-VY LT
☐	437	Tan-LT
☉	451	Shell Gray-DK
☆	452	Shell Gray-MD
⊗	500	Blue Green-VY DK
—	554	Violet-LT
↖	611	Drab Brown
✓	612	Drab Brown-LT
⊕	613	Drab Brown-VY LT
♠	632	Desert Sand-UL VY DK
u	712	Cream
⊕	729	Old Gold-MD
≡	734	Olive Green-LT
↔	738	Tan-VY LT
⌈	758	Terra Cotta-VY LT
↑	762	Pearl Gray-VY LT
(772	Yellow Green-VY LT
⊥	775	Baby Blue-VY LT
4	778	Antique Mauve-VY LT
›	782	Topaz-DK
↓	801	Coffee Brown-DK
✱	829	Golden Olive-VY DK
▲	831	Golden Olive-MD
⊕	833	Golden Olive-LT
/	834	Golden Olive-VY LT
**	838	Beige Brown-VY DK
☆	839	Beige Brown-DK

↖	841	Beige Brown-LT
6	842	Beige Brown-VY LT
▲	844	Beaver Brown-UL DK
✕	898	Coffee Brown-VY DK
↓	902	Garnet-VY DK
●	938	Coffee Brown-UL DK
■	939	Navy Blue-VY DK
~	948	Peach-VY LT
◇	975	Golden Brown-DK
←	3021	Brown Gray-VY DK
◎	3041	Antique Violet-MD
⌘	3042	Antique Violet-LT
≥	3045	Yellow Beige-DK
0	3046	Yellow Beige-MD
∞	3047	Yellow Beige-LT
..	3064	Desert Sand
⊕	3328	Salmon-DK
●	3371	Black Brown
■	3685	Mauve-DK
#	3712	Salmon-MD
⌈	3721	Shell Pink-DK
▲	3722	Shell Pink-MD
▲	3726	Antique Mauve-DK
☒	3740	Antique Violet-DK
=	3743	Antique Violet-VY LT
1	3756	Baby Blue-UL VY LT
⌈	3772	Desert Sand-VY DK
	3778	Terra Cotta-LT
⊕	3781	Mocha Brown-DK
☉	3790	Beige Gray-UL DK
▼	3799	Pewter Gray-VY DK
↖	3802	Antique Mauve-VY DK
↓	3826	Golden Brown
⊕	3828	Hazelnut Brown
≥	3829	Old Gold-VY DK
⌘	3830	Terra Cotta-MD
♣	3834	Grape-DK
○	3836	Grape-LT
*	3860	Cocoa
≡	3861	Cocoa-LT
⌘	3862	Mocha Beige-DK
⊕	3863	Mocha Beige-MD
7	3864	Mocha Beige-LT
↖	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
☒	610	Drab Brown-DK	839	Beige Brown-DK
↖	738	Tan-VY LT	3864	Mocha Beige-LT
✱	3772	Desert Sand-VY DK	3860	Cocoa
)	772	Yellow Green-VY LT	3046	Yellow Beige-MD

►	610	Drab Brown-DK	632	Desert Sand-UL VY DK
★	611	Drab Brown	3862	Mocha Beige-DK
///	420	Hazelnut Brown-DK	435	Brown-VY LT
△	3046	Yellow Beige-MD	613	Drab Brown-VY LT
//	356	Terra Cotta-MD	3830	Terra Cotta-MD
◆	3834	Grape-DK	823	Navy Blue-DK
♥	823	Navy Blue-DK	838	Beige Brown-VY DK
▨	315	Antique Mauve-VY DK	839	Beige Brown-DK
m	407	Desert Sand-DK	758	Terra Cotta-VY LT
♦♦	3721	Shell Pink-DK	3772	Desert Sand-VY DK
e	224	Shell Pink-VY LT	758	Terra Cotta-VY LT
∩	3864	Mocha Beige-LT	758	Terra Cotta-VY LT
∨	407	Desert Sand-DK	3778	Terra Cotta-LT
⚡	3328	Salmon-DK	3830	Terra Cotta-MD
⌘	3778	Terra Cotta-LT	3328	Salmon-DK
✦	356	Terra Cotta-MD	3721	Shell Pink-DK
◦	3860	Cocoa	3787	Brown Gray-DK
◐	3721	Shell Pink-DK	3685	Mauve-DK
◑	315	Antique Mauve-VY DK	3726	Antique Mauve-DK
◒	3726	Antique Mauve-DK	451	Shell Gray-DK
✦	434	Brown-LT	975	Golden Brown-DK
✧	3829	Old Gold-VY DK	420	Hazelnut Brown-DK
◊	3828	Hazelnut Brown	3829	Old Gold-VY DK
α	738	Tan-VY LT	758	Terra Cotta-VY LT
τ	223	Shell Pink-LT	841	Beige Brown-LT
✕	435	Brown-VY LT	3721	Shell Pink-DK
+	422	Hazelnut Brown-LT	3046	Yellow Beige-MD
☛	838	Beige Brown-VY DK	938	Coffee Brown-UL DK
⇒	754	Peach-LT	613	Drab Brown-VY LT
=	3721	Shell Pink-DK	420	Hazelnut Brown-DK
●	823	Navy Blue-DK	902	Garnet-VY DK
✱	414	Steel Gray-DK	451	Shell Gray-DK
✧	3863	Mocha Beige-MD	841	Beige Brown-LT
◇	554	Violet-LT	3743	Antique Violet-VY LT
☾	451	Shell Gray-DK	3740	Antique Violet-DK
∠	3743	Antique Violet-VY LT	3866	Mocha Brown-UL VY LT
田	729	Old Gold-MD	435	Brown-VY LT
✱	420	Hazelnut Brown-DK	434	Brown-LT
✦	3721	Shell Pink-DK	355	Terra Cotta-DK
♣	437	Tan-LT	3778	Terra Cotta-LT
♠	842	Beige Brown-VY LT	224	Shell Pink-VY LT
♣	3712	Salmon-MD	3778	Terra Cotta-LT
♣	355	Terra Cotta-DK	420	Hazelnut Brown-DK
♣	3721	Shell Pink-DK	3826	Golden Brown
♣	3712	Salmon-MD	3328	Salmon-DK
♣	3861	Cocoa-LT	451	Shell Gray-DK
◦	3866	Mocha Brown-UL VY LT	762	Pearl Gray-VY LT
Z	414	Steel Gray-DK	3861	Cocoa-LT
⊕	370	Mustard-MD	3772	Desert Sand-VY DK
♣	553	Violet	3861	Cocoa-LT
♣	318	Steel Gray-LT	341	Blue Violet-LT
↑	902	Garnet-VY DK	838	Beige Brown-VY DK
≈	3864	Mocha Beige-LT	224	Shell Pink-VY LT
✧	223	Shell Pink-LT	3064	Desert Sand
♣	223	Shell Pink-LT	356	Terra Cotta-MD
♣	553	Violet	3042	Antique Violet-LT
♣	839	Beige Brown-DK	902	Garnet-VY DK
▼	3834	Grape-DK	315	Antique Mauve-VY DK
♣	838	Beige Brown-VY DK	3834	Grape-DK

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●	420	Hazelnut Brown-DK	3858	Rosewood-MD
☞	3834	Grape-DK	3860	Cocoa
▣	610	Drab Brown-DK	315	Antique Mauve-VY DK
⊕	315	Antique Mauve-VY DK	844	Beaver Brown-UL DK
☾	610	Drab Brown-DK	3860	Cocoa
∨	3042	Antique Violet-LT	3861	Cocoa-LT
<	3743	Antique Violet-VY LT	772	Yellow Green-VY LT
□	772	Yellow Green-VY LT	353	Peach
⌘	553	Violet	318	Steel Gray-LT
⌘	554	Violet-LT	318	Steel Gray-LT
▲	414	Steel Gray-DK	3042	Antique Violet-LT
:	3743	Antique Violet-VY LT	761	Salmon-LT
· ·	224	Shell Pink-VY LT	647	Beaver Gray-MD
∨	445	Lemon-LT	3046	Yellow Beige-MD
l	772	Yellow Green-VY LT	445	Lemon-LT
3	422	Hazelnut Brown-LT	734	Olive Green-LT
♡	613	Drab Brown-VY LT	445	Lemon-LT
▀	3829	Old Gold-VY DK	355	Terra Cotta-DK
×	3778	Terra Cotta-LT	3826	Golden Brown
†	729	Old Gold-MD	922	Copper-LT
⌘	437	Tan-LT	3826	Golden Brown
∨	3778	Terra Cotta-LT	922	Copper-LT
⊙	435	Brown-VY LT	922	Copper-LT
δ	772	Yellow Green-VY LT	ecru	Ecru
n	712	Cream	772	Yellow Green-VY LT
L	3743	Antique Violet-VY LT	353	Peach
O	353	Peach	613	Drab Brown-VY LT
↓	3328	Salmon-DK	922	Copper-LT
▷	613	Drab Brown-VY LT	772	Yellow Green-VY LT
5	613	Drab Brown-VY LT	3864	Mocha Beige-LT
•	ecru	Ecru	613	Drab Brown-VY LT
^	772	Yellow Green-VY LT	3047	Yellow Beige-LT
L	831	Golden Olive-MD	3829	Old Gold-VY DK
::	734	Olive Green-LT	407	Desert Sand-DK
√	734	Olive Green-LT	437	Tan-LT
▣	3836	Grape-LT	3726	Antique Mauve-DK
●	3042	Antique Violet-LT	3726	Antique Mauve-DK
□	437	Tan-LT	3712	Salmon-MD
<	407	Desert Sand-DK	3712	Salmon-MD
↖	356	Terra Cotta-MD	922	Copper-LT
	758	Terra Cotta-VY LT	3712	Salmon-MD
٪	3722	Shell Pink-MD	3836	Grape-LT
⊙	435	Brown-VY LT	3772	Desert Sand-VY DK
⊙	922	Copper-LT	3712	Salmon-MD
∅	922	Copper-LT	3830	Terra Cotta-MD
⌘	3685	Mauve-DK	902	Garnet-VY DK
×	224	Shell Pink-VY LT	3722	Shell Pink-MD
⊕	838	Beige Brown-VY DK	939	Navy Blue-VY DK
●	823	Navy Blue-DK	939	Navy Blue-VY DK
∴	414	Steel Gray-DK	553	Violet

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	
210	Lavender-MD	25	9	23	9	21	8
211	Lavender-LT	23	9	22	8	20	7
223	Shell Pink-LT	654	257	623	245	561	220
224	Shell Pink-VY LT	243	95	231	90	208	81
300	Mahogany-VY DK	77	30	73	28	66	25
310	Black	655	257	624	245	561	220
315	Antique Mauve-VY DK	1912	752	1821	716	1639	645
318	Steel Gray-LT	204	80	195	76	175	68
341	Blue Violet-LT	23	9	22	8	19	7
353	Peach	26	10	25	9	22	8
355	Terra Cotta-DK	154	60	146	57	132	51
356	Terra Cotta-MD	304	119	289	113	260	102
370	Mustard-MD	484	190	461	181	415	163
371	Mustard	103	40	98	38	89	35
407	Desert Sand-DK	364	143	346	136	312	122
414	Steel Gray-DK	67	26	64	25	57	22
420	Hazelnut Brown-DK	1070	421	1019	401	917	361
422	Hazelnut Brown-LT	55	21	52	20	47	18
433	Brown-MD	446	175	425	167	382	150
434	Brown-LT	283	111	269	105	242	95
435	Brown-VY LT	525	206	500	196	450	177
437	Tan-LT	213	83	203	79	183	72
445	Lemon-LT	101	39	96	37	86	33
451	Shell Gray-DK	536	211	510	200	459	180
452	Shell Gray-MD	68	26	65	25	58	22
500	Blue Green-VY DK	128	50	122	48	110	43
553	Violet	62	24	59	23	53	20
554	Violet-LT	125	49	119	46	107	42
610	Drab Brown-DK	1120	440	1067	420	960	377
611	Drab Brown	426	167	406	159	365	143
612	Drab Brown-LT	305	120	290	114	261	102
613	Drab Brown-VY LT	150	59	143	56	129	50
632	Desert Sand-UL VY DK	1203	473	1145	450	1031	405
647	Beaver Gray-MD	49	19	47	18	42	16
712	Cream	40	15	38	14	34	13
729	Old Gold-MD	81	31	77	30	70	27
734	Olive Green-LT	115	45	110	43	99	38
738	Tan-VY LT	86	33	82	32	74	29
754	Peach-LT	18	7	17	6	16	6
758	Terra Cotta-VY LT	115	45	109	42	98	38
761	Salmon-LT	16	6	15	5	13	5
762	Pearl Gray-VY LT	110	43	105	41	94	37
772	Yellow Green-VY LT	228	89	217	85	195	76
775	Baby Blue-VY LT	12	4	12	4	10	3
778	Antique Mauve-VY LT	45	17	43	16	38	14
782	Topaz-DK	5	1	4	1	4	1
801	Coffee Brown-DK	218	85	208	81	187	73
823	Navy Blue-DK	2527	994	2407	947	2166	852
829	Golden Olive-VY DK	64	25	61	24	55	21
831	Golden Olive-MD	22	8	20	7	18	7
833	Golden Olive-LT	22	8	21	8	19	7
834	Golden Olive-VY LT	25	9	23	9	21	8
838	Beige Brown-VY DK	5035	1982	4795	1887	4316	1699
839	Beige Brown-DK	2466	970	2348	924	2113	831

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841	Beige Brown-LT	977	384	931	366	838	329
842	Beige Brown-VY LT	69	27	66	25	59	23
844	Beaver Brown-UL DK	277	109	264	103	238	93
898	Coffee Brown-VY DK	39	15	37	14	34	13
902	Garnet-VY DK	2863	1127	2727	1073	2454	966
922	Copper-LT	374	147	356	140	320	125
938	Coffee Brown-UL DK	267	105	254	100	229	90
939	Navy Blue-VY DK	2808	1105	2675	1053	2407	947
948	Peach-VY LT	13	5	12	4	11	4
975	Golden Brown-DK	310	122	295	116	266	104
3021	Brown Gray-VY DK	250	98	238	93	214	84
3041	Antique Violet-MD	69	27	66	25	59	23
3042	Antique Violet-LT	250	98	238	93	214	84
3045	Yellow Beige-DK	80	31	77	30	69	27
3046	Yellow Beige-MD	201	79	192	75	173	68
3047	Yellow Beige-LT	63	24	60	23	54	21
3064	Desert Sand	258	101	246	96	221	87
3328	Salmon-DK	1678	660	1598	629	1438	566
3371	Black Brown	191	75	182	71	164	64
3685	Mauve-DK	454	178	432	170	389	153
3712	Salmon-MD	468	184	445	175	401	157
3721	Shell Pink-DK	1416	557	1348	530	1213	477
3722	Shell Pink-MD	355	139	338	133	304	119
3726	Antique Mauve-DK	569	224	542	213	487	191
3740	Antique Violet-DK	189	74	180	70	162	63
3743	Antique Violet-VY LT	240	94	228	89	205	80
3756	Baby Blue-UL VY LT	47	18	45	17	41	16
3772	Desert Sand-VY DK	1394	548	1328	522	1195	470
3778	Terra Cotta-LT	376	148	358	140	322	126
3781	Mocha Brown-DK	108	42	103	40	93	36
3787	Brown Gray-DK	39	15	37	14	33	12
3790	Beige Gray-UL DK	72	28	68	26	61	24
3799	Pewter Gray-VY DK	65	25	62	24	56	22
3802	Antique Mauve-VY DK	742	292	707	278	636	250
3826	Golden Brown	106	41	101	39	91	35
3828	Hazelnut Brown	260	102	248	97	223	87
3829	Old Gold-VY DK	142	55	135	53	122	48
3830	Terra Cotta-MD	1154	454	1099	432	989	389
3834	Grape-DK	1447	569	1378	542	1240	488
3836	Grape-LT	100	39	95	37	86	33
3858	Rosewood-MD	227	89	216	85	194	76
3860	Cocoa	851	335	811	319	729	287
3861	Cocoa-LT	309	121	294	115	265	104
3862	Mocha Beige-DK	955	375	909	357	818	322
3863	Mocha Beige-MD	1215	478	1157	455	1042	410
3864	Mocha Beige-LT	262	103	249	98	224	88
3866	Mocha Brown-UL VY LT	143	56	136	53	123	48
ecru	Ecru	60	23	57	22	51	20

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
210	Lavender-MD	38	14	32	12	16	6
211	Lavender-LT	36	13	30	11	15	5
223	Shell Pink-LT	1010	396	842	330	421	165
224	Shell Pink-VY LT	374	146	312	122	156	61

300	Mahogany-VY DK	119	45	99	38	50	19
310	Black	1010	396	842	330	421	165
315	Antique Mauve-VY DK	2950	1161	2459	968	1229	484
318	Steel Gray-LT	315	122	263	102	131	51
341	Blue Violet-LT	34	13	29	11	14	5
353	Peach	40	14	33	12	17	6
355	Terra Cotta-DK	238	92	198	77	99	38
356	Terra Cotta-MD	468	184	390	153	195	77
370	Mustard-MD	747	293	623	245	311	122
371	Mustard	160	63	134	53	67	26
407	Desert Sand-DK	562	220	468	183	234	92
414	Steel Gray-DK	103	40	86	33	43	17
420	Hazelnut Brown-DK	1651	650	1376	542	688	271
422	Hazelnut Brown-LT	85	32	71	27	35	14
433	Brown-MD	688	270	573	225	287	113
434	Brown-LT	436	171	363	143	182	71
435	Brown-VY LT	810	319	675	266	338	133
437	Tan-LT	329	130	275	108	137	54
445	Lemon-LT	155	59	129	50	65	25
451	Shell Gray-DK	826	324	689	270	344	135
452	Shell Gray-MD	104	40	87	33	44	17
500	Blue Green-VY DK	198	77	165	65	83	32
553	Violet	95	36	80	30	40	15
554	Violet-LT	193	76	161	63	80	32
610	Drab Brown-DK	1728	679	1440	566	720	283
611	Drab Brown	657	257	548	215	274	107
612	Drab Brown-LT	470	184	392	153	196	77
613	Drab Brown-VY LT	232	90	194	75	97	38
632	Desert Sand-UL VY DK	1856	729	1547	608	773	304
647	Beaver Gray-MD	76	29	63	24	32	12
712	Cream	61	23	51	20	26	10
729	Old Gold-MD	126	49	105	41	53	20
734	Olive Green-LT	178	68	149	57	74	29
738	Tan-VY LT	133	52	111	44	56	22
754	Peach-LT	29	11	24	9	12	5
758	Terra Cotta-VY LT	176	68	147	57	74	29
761	Salmon-LT	23	9	20	8	10	4
762	Pearl Gray-VY LT	169	67	141	56	71	28
772	Yellow Green-VY LT	351	137	293	114	146	57
775	Baby Blue-VY LT	18	5	15	5	8	2
778	Antique Mauve-VY LT	68	25	57	21	29	11
782	Topaz-DK	7	2	6	2	3	1
801	Coffee Brown-DK	337	131	281	110	140	55
823	Navy Blue-DK	3899	1534	3249	1278	1625	639
829	Golden Olive-VY DK	99	38	83	32	41	16
831	Golden Olive-MD	32	13	27	11	14	5
833	Golden Olive-LT	34	13	29	11	14	5
834	Golden Olive-VY LT	38	14	32	12	16	6
838	Beige Brown-VY DK	7769	3058	6474	2549	3237	1274
839	Beige Brown-DK	3803	1496	3170	1247	1585	623
841	Beige Brown-LT	1508	592	1257	494	629	247
842	Beige Brown-VY LT	106	41	89	35	44	17
844	Beaver Brown-UL DK	428	167	357	140	179	70
898	Coffee Brown-VY DK	61	23	51	20	26	10
902	Garnet-VY DK	4417	1739	3681	1449	1841	725
922	Copper-LT	576	225	480	188	240	94
938	Coffee Brown-UL DK	412	162	344	135	172	68
939	Navy Blue-VY DK	4333	1705	3611	1421	1805	710
948	Peach-VY LT	20	7	17	6	8	3

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975	Golden Brown-DK	479	187	399	156	200	78
3021	Brown Gray-VY DK	385	151	321	126	161	63
3041	Antique Violet-MD	106	41	89	35	44	17
3042	Antique Violet-LT	385	151	321	126	161	63
3045	Yellow Beige-DK	124	49	104	41	52	20
3046	Yellow Beige-MD	311	122	260	102	130	51
3047	Yellow Beige-LT	97	38	81	32	41	16
3064	Desert Sand	398	157	332	131	166	65
3328	Salmon-DK	2588	1019	2157	849	1079	425
3371	Black Brown	295	115	246	96	123	48
3685	Mauve-DK	700	275	584	230	292	115
3712	Salmon-MD	722	283	602	236	301	118
3721	Shell Pink-DK	2183	859	1820	716	910	358
3722	Shell Pink-MD	547	214	456	179	228	89
3726	Antique Mauve-DK	877	344	731	287	365	143
3740	Antique Violet-DK	292	113	243	95	122	47
3743	Antique Violet-VY LT	369	144	308	120	154	60
3756	Baby Blue-UL VY LT	74	29	62	24	31	12
3772	Desert Sand-VY DK	2151	846	1793	705	896	353
3778	Terra Cotta-LT	580	227	483	189	242	95
3781	Mocha Brown-DK	167	65	140	54	70	27
3787	Brown Gray-DK	59	22	50	18	25	9
3790	Beige Gray-UL DK	110	43	92	36	46	18
3799	Pewter Gray-VY DK	101	40	84	33	42	17
3802	Antique Mauve-VY DK	1145	450	954	375	477	188
3826	Golden Brown	164	63	137	53	68	26
3828	Hazelnut Brown	401	157	335	131	167	65
3829	Old Gold-VY DK	220	86	183	72	92	36
3830	Terra Cotta-MD	1780	700	1484	584	742	292
3834	Grape-DK	2232	878	1860	732	930	366
3836	Grape-LT	155	59	129	50	65	25
3858	Rosewood-MD	349	137	291	114	146	57
3860	Cocoa	1312	517	1094	431	547	215
3861	Cocoa-LT	477	187	398	156	199	78
3862	Mocha Beige-DK	1472	580	1227	483	614	242
3863	Mocha Beige-MD	1876	738	1563	615	782	308
3864	Mocha Beige-LT	403	158	336	132	168	66
3866	Mocha Brown-UL VY LT	221	86	185	72	92	36
ecru	Ecru	92	36	77	30	38	15

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
210	Lavender-MD	15	6	15	6	14	5
211	Lavender-LT	14	5	14	5	13	5
223	Shell Pink-LT	404	158	388	152	374	147
224	Shell Pink-VY LT	150	58	144	56	139	54
300	Mahogany-VY DK	48	18	46	17	44	17
310	Black	404	158	388	152	374	147
315	Antique Mauve-VY DK	1180	464	1135	447	1093	430
318	Steel Gray-LT	126	49	121	47	117	45
341	Blue Violet-LT	14	5	13	5	13	5
353	Peach	16	6	15	6	15	5
355	Terra Cotta-DK	95	37	91	35	88	34
356	Terra Cotta-MD	187	73	180	71	173	68
370	Mustard-MD	299	117	287	113	277	109

371	Mustard	64	25	62	24	59	23
407	Desert Sand-DK	225	88	216	84	208	81
414	Steel Gray-DK	41	16	39	15	38	15
420	Hazelnut Brown-DK	660	260	635	250	611	241
422	Hazelnut Brown-LT	34	13	33	12	31	12
433	Brown-MD	275	108	264	104	255	100
434	Brown-LT	174	68	168	66	161	63
435	Brown-VY LT	324	127	312	123	300	118
437	Tan-LT	132	52	127	50	122	48
445	Lemon-LT	62	24	60	23	57	22
451	Shell Gray-DK	330	130	318	125	306	120
452	Shell Gray-MD	42	16	40	15	39	15
500	Blue Green-VY DK	79	31	76	30	73	29
553	Violet	38	14	37	14	35	13
554	Violet-LT	77	30	74	29	71	28
610	Drab Brown-DK	691	271	665	261	640	251
611	Drab Brown	263	103	253	99	243	95
612	Drab Brown-LT	188	73	181	71	174	68
613	Drab Brown-VY LT	93	36	89	35	86	33
632	Desert Sand-UL VY DK	742	292	714	280	687	270
647	Beaver Gray-MD	30	12	29	11	28	11
712	Cream	24	9	24	9	23	9
729	Old Gold-MD	50	19	48	19	47	18
734	Olive Green-LT	71	27	69	26	66	25
738	Tan-VY LT	53	21	51	20	49	19
754	Peach-LT	12	4	11	4	11	4
758	Terra Cotta-VY LT	71	27	68	26	65	25
761	Salmon-LT	9	4	9	3	9	3
762	Pearl Gray-VY LT	68	27	65	26	63	25
772	Yellow Green-VY LT	140	55	135	53	130	51
775	Baby Blue-VY LT	7	2	7	2	7	2
778	Antique Mauve-VY LT	27	10	26	10	25	9
782	Topaz-DK	3	1	3	1	3	1
801	Coffee Brown-DK	135	53	129	51	125	49
823	Navy Blue-DK	1560	613	1500	590	1444	568
829	Golden Olive-VY DK	40	15	38	15	37	14
831	Golden Olive-MD	13	5	12	5	12	5
833	Golden Olive-LT	14	5	13	5	13	5
834	Golden Olive-VY LT	15	6	15	6	14	5
838	Beige Brown-VY DK	3108	1223	2988	1176	2877	1133
839	Beige Brown-DK	1521	598	1463	575	1409	554
841	Beige Brown-LT	603	237	580	228	559	219
842	Beige Brown-VY LT	42	17	41	16	39	15
844	Beaver Brown-UL DK	171	67	165	64	159	62
898	Coffee Brown-VY DK	24	9	24	9	23	9
902	Garnet-VY DK	1767	696	1699	669	1636	644
922	Copper-LT	230	90	222	87	213	83
938	Coffee Brown-UL DK	165	65	159	62	153	60
939	Navy Blue-VY DK	1733	682	1666	656	1605	631
948	Peach-VY LT	8	3	8	3	7	3
975	Golden Brown-DK	192	75	184	72	177	69
3021	Brown Gray-VY DK	154	60	148	58	143	56
3041	Antique Violet-MD	42	17	41	16	39	15
3042	Antique Violet-LT	154	60	148	58	143	56
3045	Yellow Beige-DK	50	19	48	19	46	18
3046	Yellow Beige-MD	125	49	120	47	115	45
3047	Yellow Beige-LT	39	15	37	15	36	14
3064	Desert Sand	159	63	153	60	147	58
3328	Salmon-DK	1035	408	996	392	959	377

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3371	Black Brown	118	46	114	44	109	43
3685	Mauve-DK	280	110	269	106	259	102
3712	Salmon-MD	289	113	278	109	267	105
3721	Shell Pink-DK	873	343	840	330	809	318
3722	Shell Pink-MD	219	86	210	82	203	79
3726	Antique Mauve-DK	351	138	337	132	325	127
3740	Antique Violet-DK	117	45	112	44	108	42
3743	Antique Violet-VY LT	148	58	142	55	137	53
3756	Baby Blue-UL VY LT	30	12	28	11	27	11
3772	Desert Sand-VY DK	860	338	827	325	797	313
3778	Terra Cotta-LT	232	91	223	87	215	84
3781	Mocha Brown-DK	67	26	64	25	62	24
3787	Brown Gray-DK	24	9	23	8	22	8
3790	Beige Gray-UL DK	44	17	42	17	41	16
3799	Pewter Gray-VY DK	40	16	39	15	37	15
3802	Antique Mauve-VY DK	458	180	440	173	424	167
3826	Golden Brown	66	25	63	24	61	23
3828	Hazelnut Brown	161	63	154	60	149	58
3829	Old Gold-VY DK	88	35	84	33	81	32
3830	Terra Cotta-MD	712	280	685	269	659	259
3834	Grape-DK	893	351	858	338	827	325
3836	Grape-LT	62	24	60	23	57	22
3858	Rosewood-MD	140	55	134	53	129	51
3860	Cocoa	525	207	505	199	486	191
3861	Cocoa-LT	191	75	183	72	177	69
3862	Mocha Beige-DK	589	232	566	223	545	215
3863	Mocha Beige-MD	750	295	721	284	695	273
3864	Mocha Beige-LT	161	63	155	61	149	59
3866	Mocha Brown-UL VY LT	89	35	85	33	82	32
ecru	Ecru	37	14	35	14	34	13

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
210	Lavender-MD	14	5	13	5	12	5
211	Lavender-LT	13	5	12	4	11	4
223	Shell Pink-LT	361	141	337	132	316	124
224	Shell Pink-VY LT	134	52	125	49	117	46
300	Mahogany-VY DK	42	16	40	15	37	14
310	Black	361	141	337	132	316	124
315	Antique Mauve-VY DK	1054	415	983	387	922	363
318	Steel Gray-LT	113	44	105	41	98	38
341	Blue Violet-LT	12	5	11	4	11	4
353	Peach	14	5	13	5	12	5
355	Terra Cotta-DK	85	33	79	31	74	29
356	Terra Cotta-MD	167	66	156	61	146	57
370	Mustard-MD	267	105	249	98	233	92
371	Mustard	57	23	53	21	50	20
407	Desert Sand-DK	201	78	187	73	176	69
414	Steel Gray-DK	37	14	34	13	32	12
420	Hazelnut Brown-DK	590	232	550	217	516	203
422	Hazelnut Brown-LT	30	12	28	11	26	10
433	Brown-MD	246	96	229	90	215	84
434	Brown-LT	156	61	145	57	136	53
435	Brown-VY LT	289	114	270	106	253	100
437	Tan-LT	118	46	110	43	103	41
445	Lemon-LT	55	21	52	20	48	19

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451	Shell Gray-DK	295	116	275	108	258	101
452	Shell Gray-MD	37	14	35	13	33	12
500	Blue Green-VY DK	71	28	66	26	62	24
553	Violet	34	13	32	12	30	11
554	Violet-LT	69	27	64	25	60	24
610	Drab Brown-DK	617	242	576	226	540	212
611	Drab Brown	235	92	219	86	205	80
612	Drab Brown-LT	168	66	157	61	147	57
613	Drab Brown-VY LT	83	32	77	30	73	28
632	Desert Sand-UL VY DK	663	260	619	243	580	228
647	Beaver Gray-MD	27	10	25	10	24	9
712	Cream	22	8	20	8	19	7
729	Old Gold-MD	45	17	42	16	39	15
734	Olive Green-LT	64	24	59	23	56	21
738	Tan-VY LT	48	19	44	17	42	16
754	Peach-LT	10	4	10	4	9	3
758	Terra Cotta-VY LT	63	24	59	23	55	21
761	Salmon-LT	8	3	8	3	7	3
762	Pearl Gray-VY LT	60	24	56	22	53	21
772	Yellow Green-VY LT	125	49	117	46	110	43
775	Baby Blue-VY LT	6	2	6	2	6	2
778	Antique Mauve-VY LT	24	9	23	8	21	8
782	Topaz-DK	3	1	2	1	2	1
801	Coffee Brown-DK	120	47	112	44	105	41
823	Navy Blue-DK	1392	548	1300	511	1218	479
829	Golden Olive-VY DK	35	14	33	13	31	12
831	Golden Olive-MD	12	5	11	4	10	4
833	Golden Olive-LT	12	5	11	4	11	4
834	Golden Olive-VY LT	14	5	13	5	12	5
838	Beige Brown-VY DK	2775	1092	2590	1019	2428	956
839	Beige Brown-DK	1358	534	1268	499	1189	467
841	Beige Brown-LT	539	212	503	197	471	185
842	Beige Brown-VY LT	38	15	35	14	33	13
844	Beaver Brown-UL DK	153	60	143	56	134	52
898	Coffee Brown-VY DK	22	8	20	8	19	7
902	Garnet-VY DK	1578	621	1472	580	1380	543
922	Copper-LT	206	80	192	75	180	70
938	Coffee Brown-UL DK	147	58	137	54	129	51
939	Navy Blue-VY DK	1547	609	1444	568	1354	533
948	Peach-VY LT	7	3	7	2	6	2
975	Golden Brown-DK	171	67	160	62	150	59
3021	Brown Gray-VY DK	138	54	128	50	120	47
3041	Antique Violet-MD	38	15	35	14	33	13
3042	Antique Violet-LT	138	54	128	50	120	47
3045	Yellow Beige-DK	44	17	41	16	39	15
3046	Yellow Beige-MD	111	44	104	41	97	38
3047	Yellow Beige-LT	35	14	32	13	30	12
3064	Desert Sand	142	56	133	52	124	49
3328	Salmon-DK	924	364	863	340	809	318
3371	Black Brown	105	41	98	38	92	36
3685	Mauve-DK	250	98	233	92	219	86
3712	Salmon-MD	258	101	241	94	226	88
3721	Shell Pink-DK	780	307	728	286	682	268
3722	Shell Pink-MD	195	77	182	71	171	67
3726	Antique Mauve-DK	313	123	292	115	274	107
3740	Antique Violet-DK	104	41	97	38	91	35
3743	Antique Violet-VY LT	132	51	123	48	115	45
3756	Baby Blue-UL VY LT	26	10	25	10	23	9
3772	Desert Sand-VY DK	768	302	717	282	672	264

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3778	Terra Cotta-LT	207	81	193	76	181	71
3781	Mocha Brown-DK	60	23	56	22	52	20
3787	Brown Gray-DK	21	8	20	7	19	7
3790	Beige Gray-UL DK	39	15	37	14	34	14
3799	Pewter Gray-VY DK	36	14	34	13	32	12
3802	Antique Mauve-VY DK	409	161	382	150	358	141
3826	Golden Brown	59	23	55	21	51	20
3828	Hazelnut Brown	143	56	134	52	125	49
3829	Old Gold-VY DK	78	31	73	29	69	27
3830	Terra Cotta-MD	636	250	593	233	556	219
3834	Grape-DK	797	314	744	293	698	275
3836	Grape-LT	55	21	52	20	48	19
3858	Rosewood-MD	125	49	116	46	109	43
3860	Cocoa	469	185	437	172	410	161
3861	Cocoa-LT	170	67	159	62	149	59
3862	Mocha Beige-DK	526	207	491	193	460	181
3863	Mocha Beige-MD	670	264	625	246	586	231
3864	Mocha Beige-LT	144	57	134	53	126	50
3866	Mocha Brown-UL VY LT	79	31	74	29	69	27
ecru	Ecru	33	13	31	12	29	11

(13)

(14)

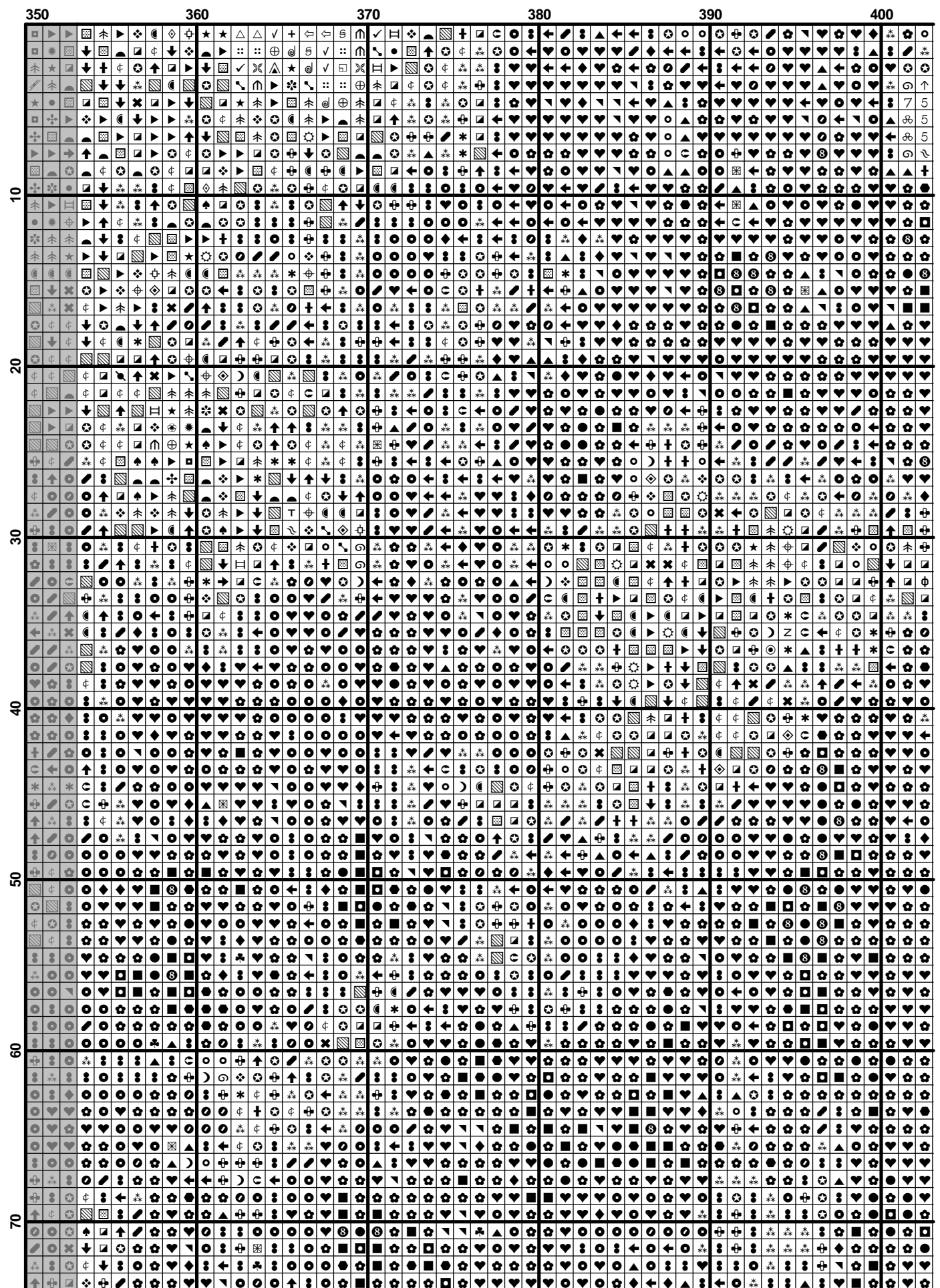
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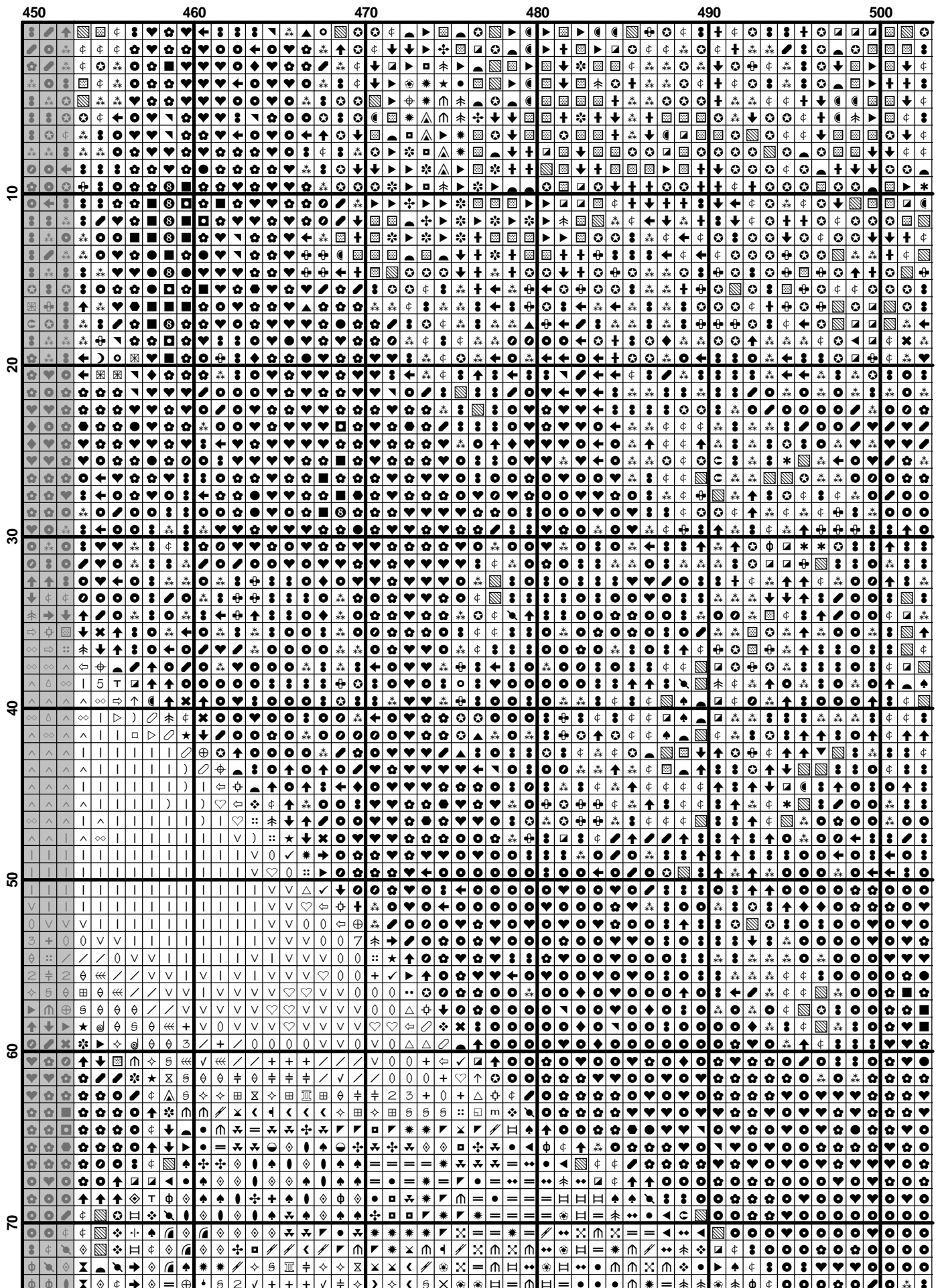
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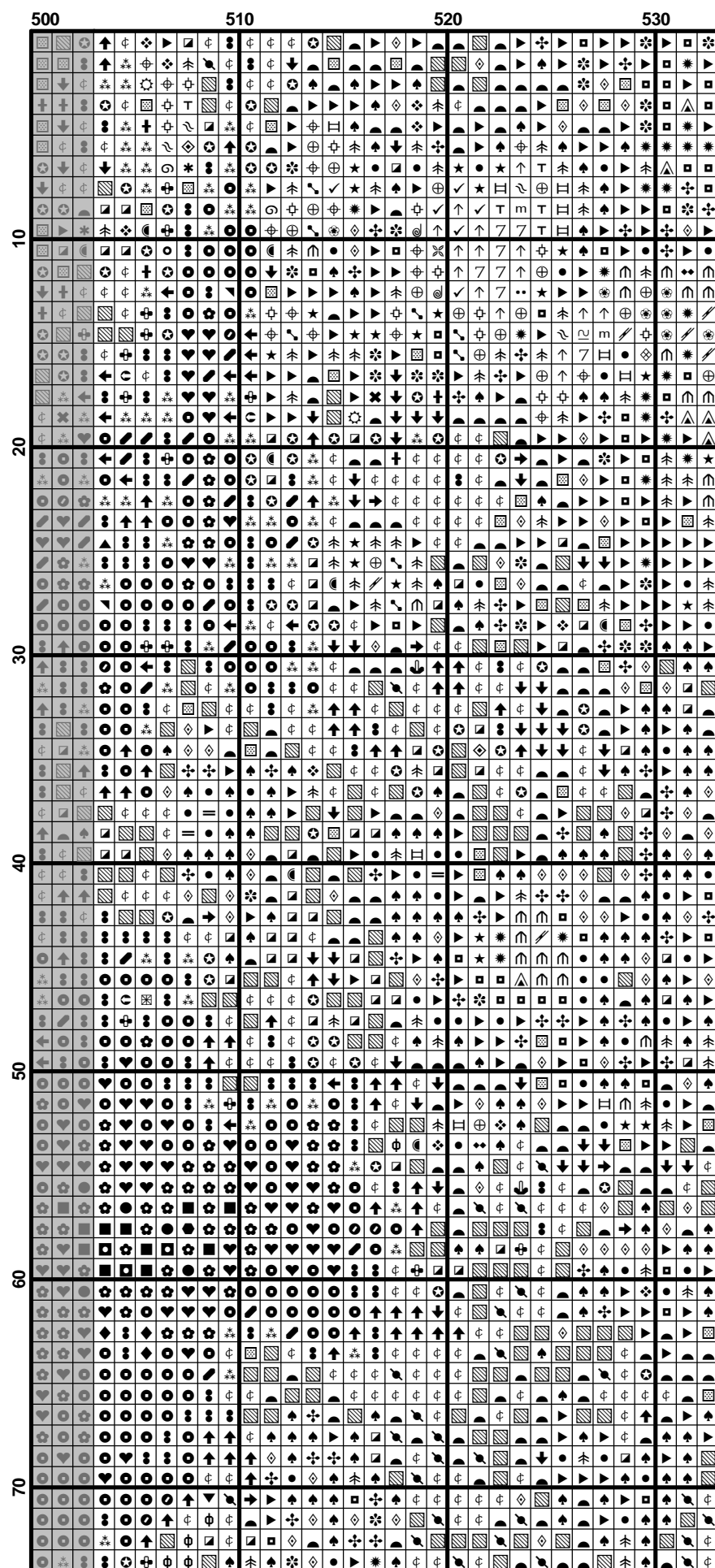
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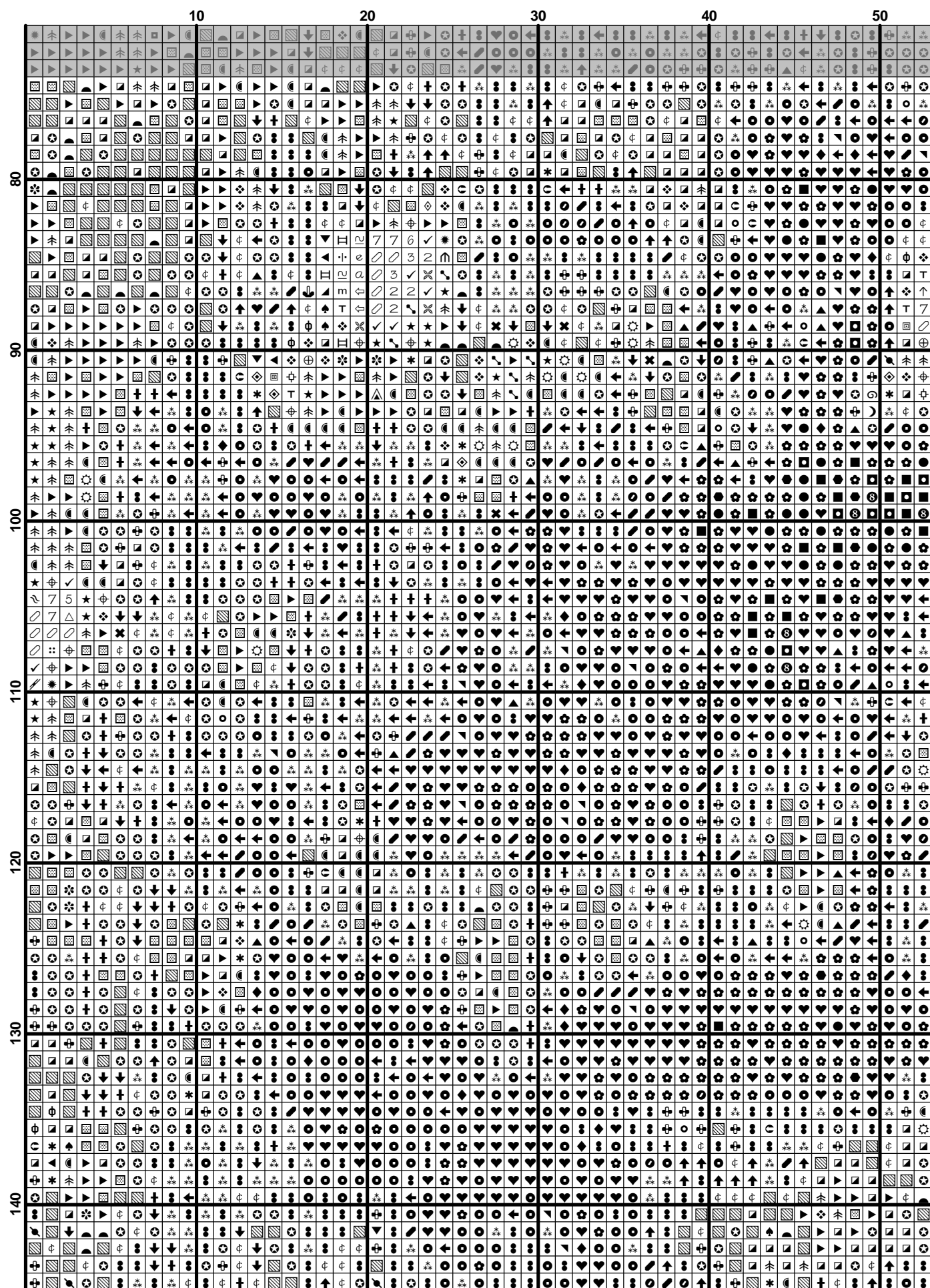
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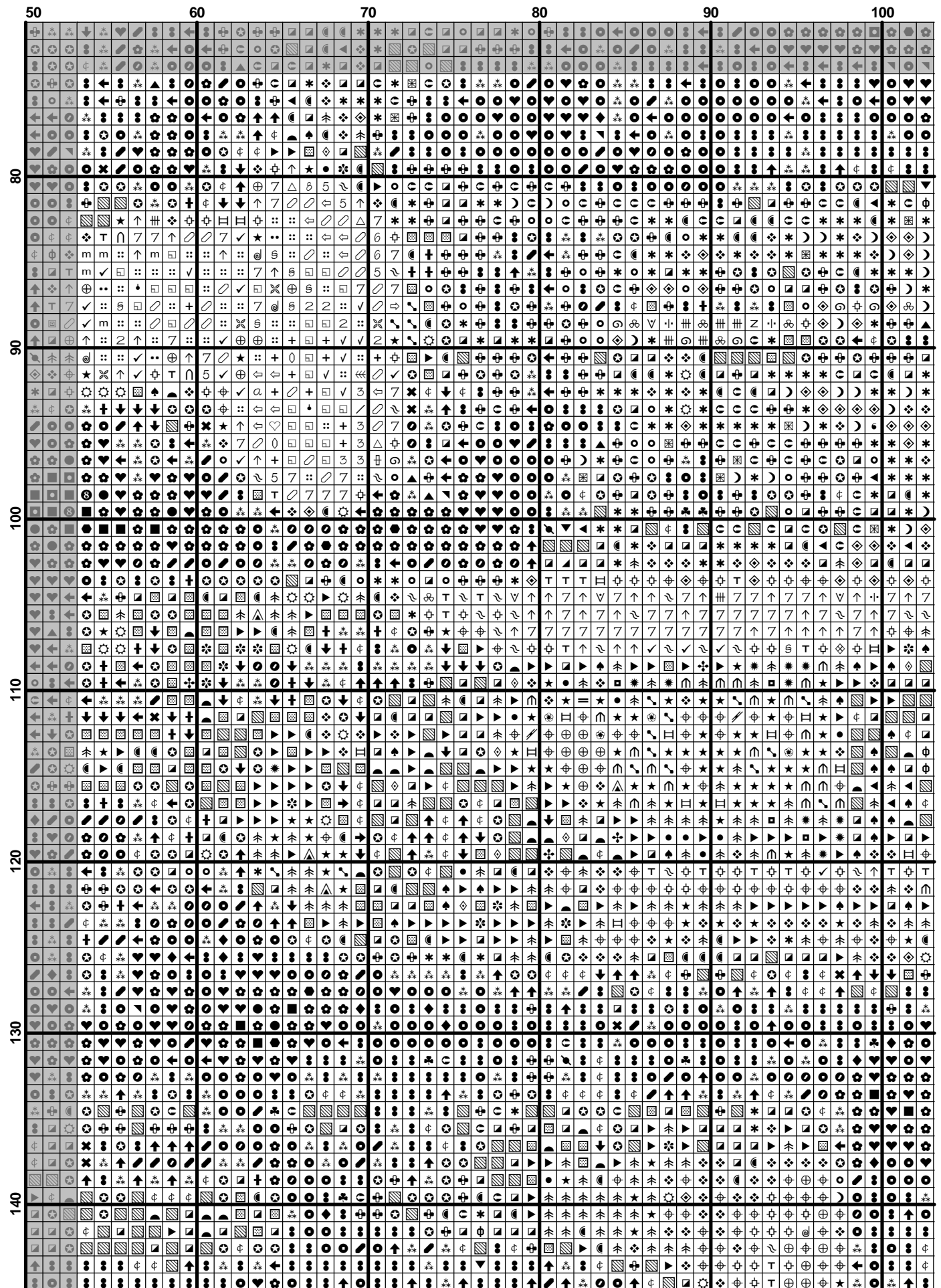


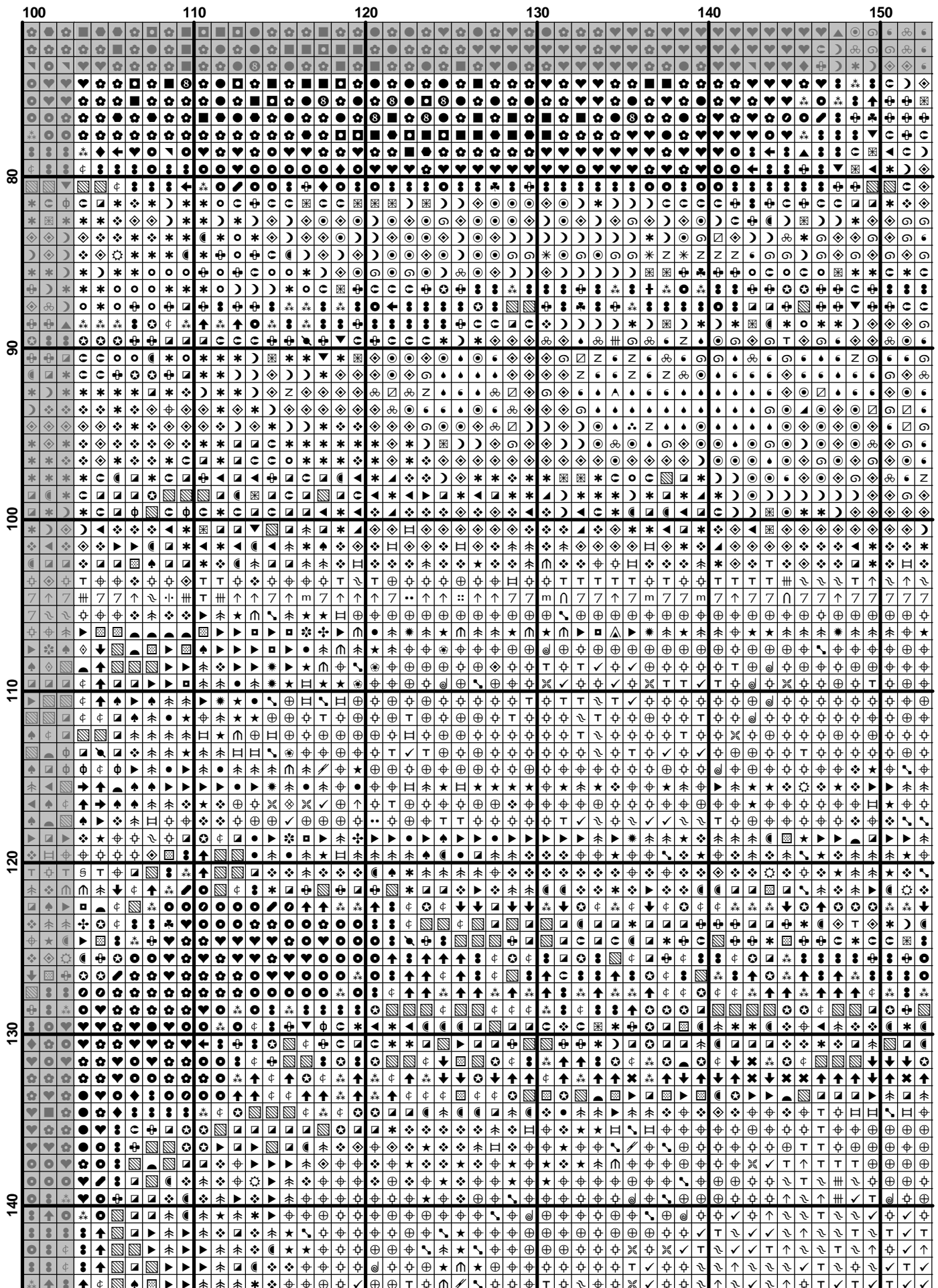
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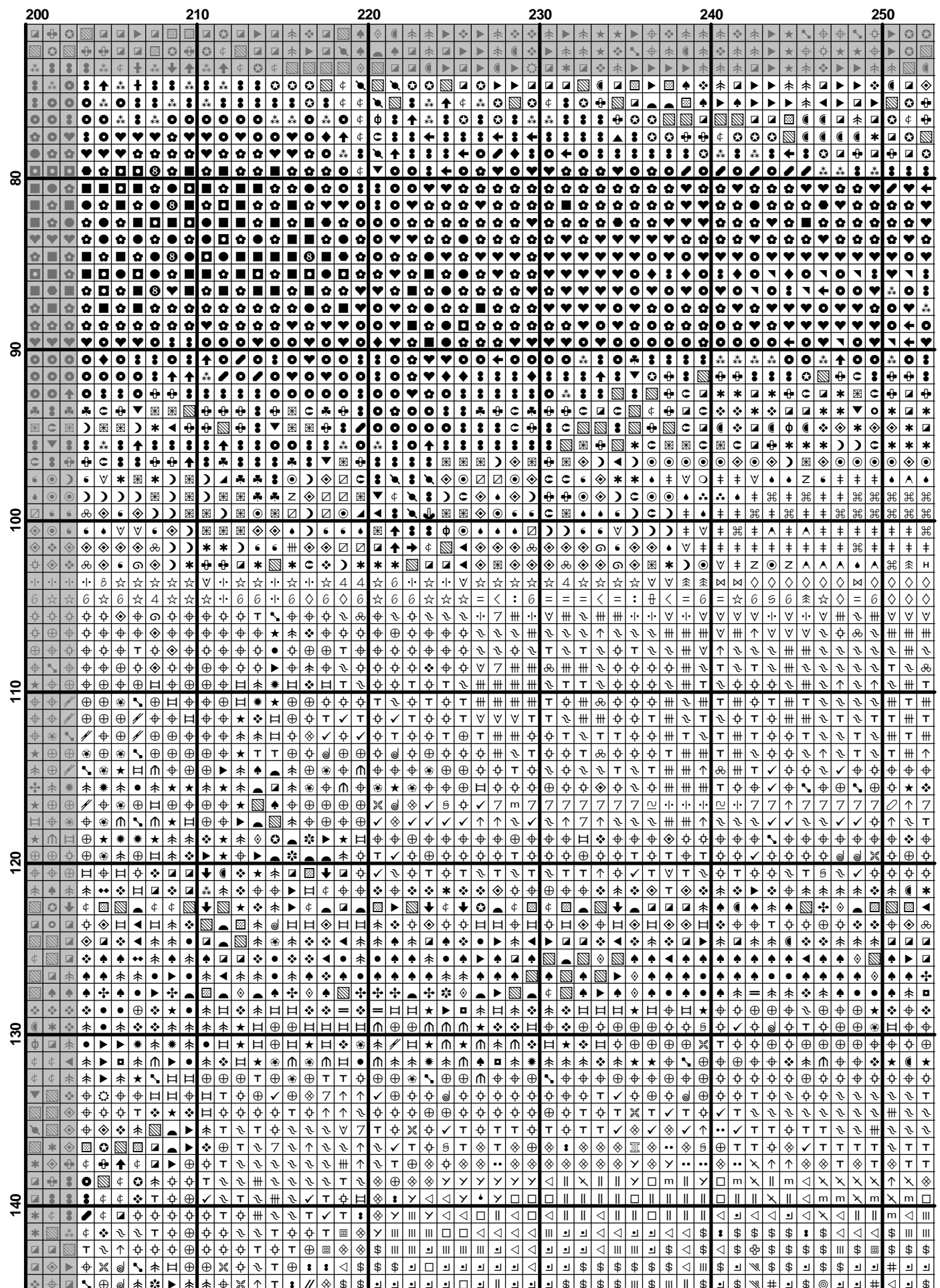




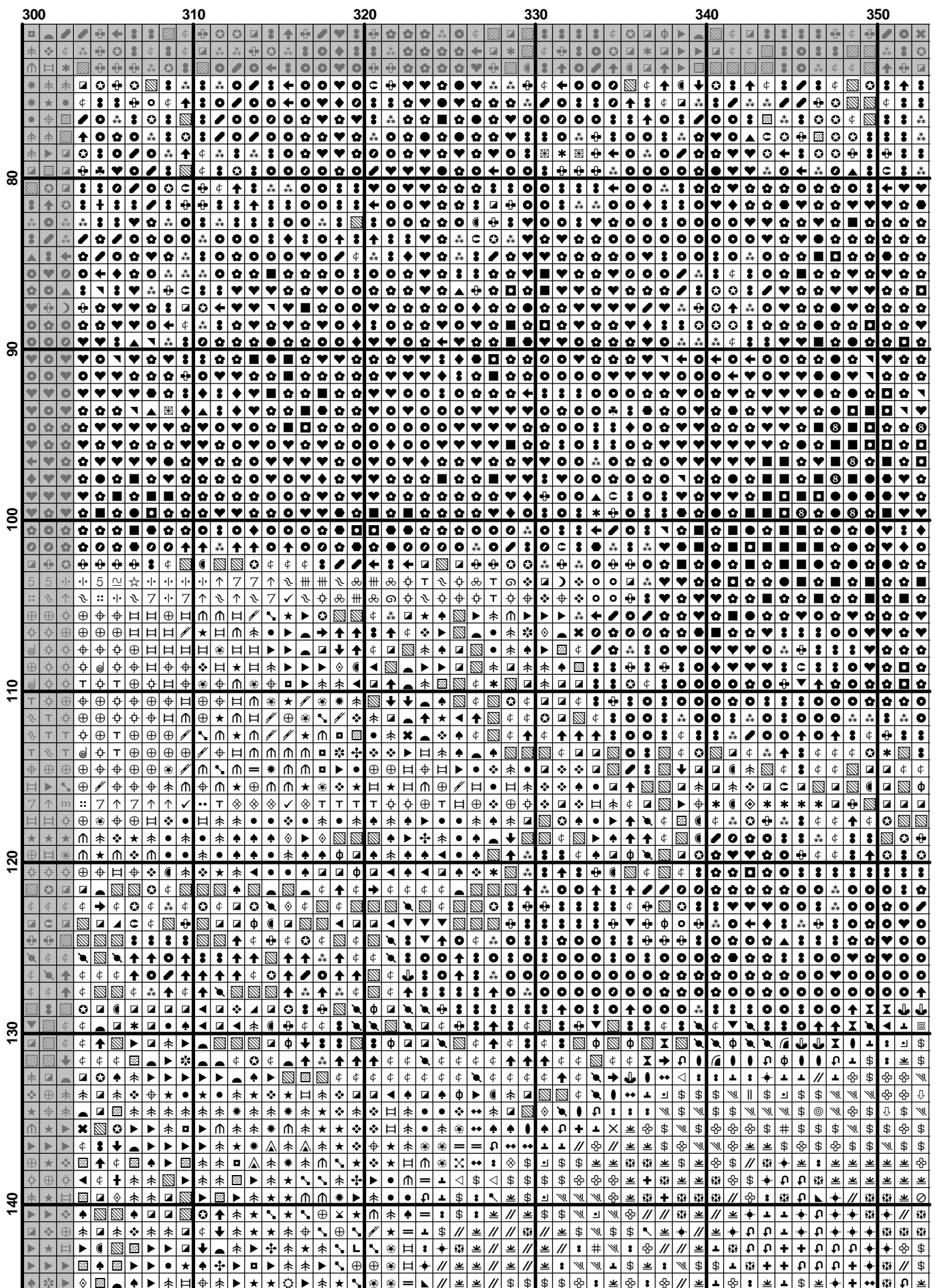


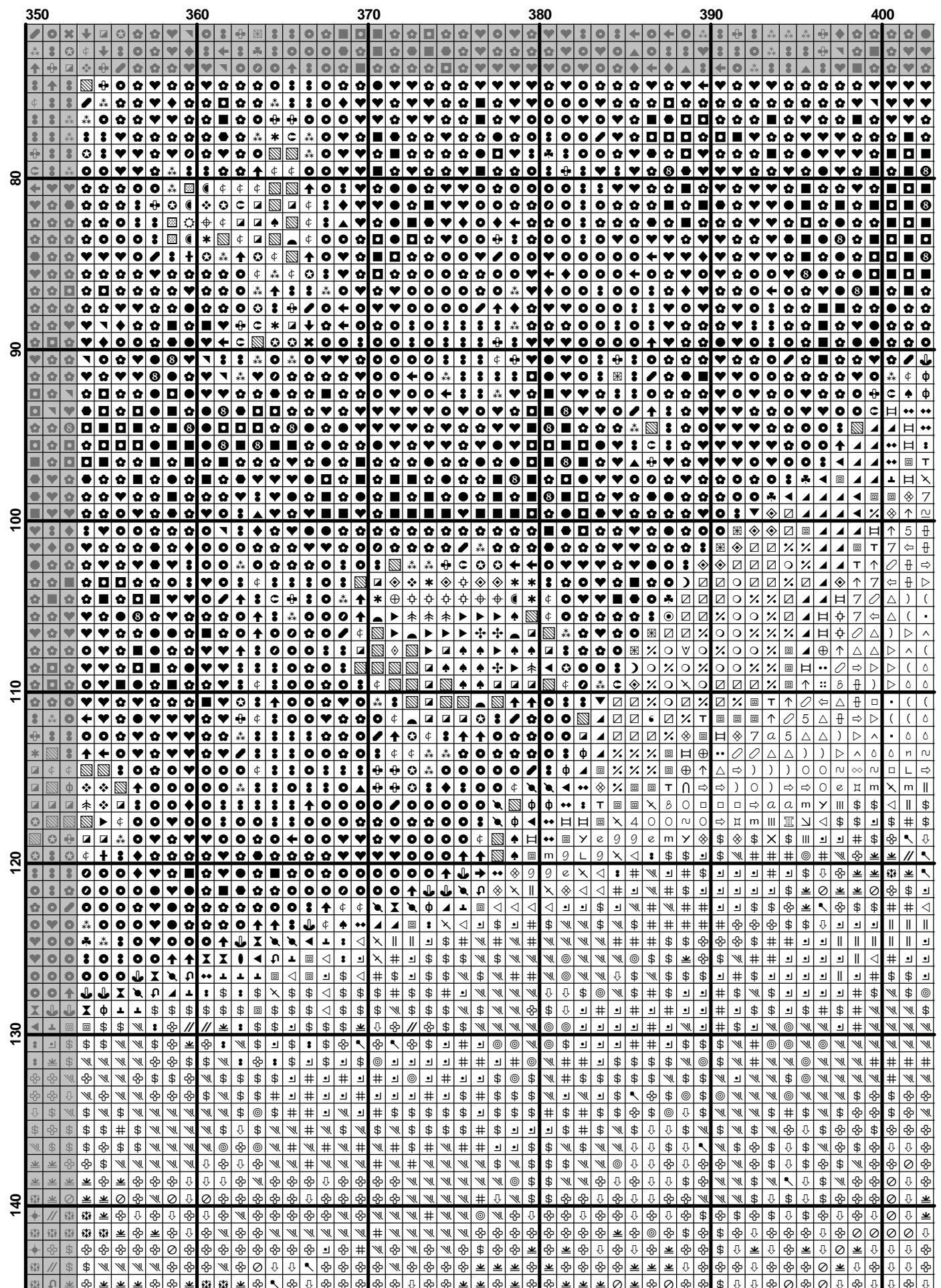


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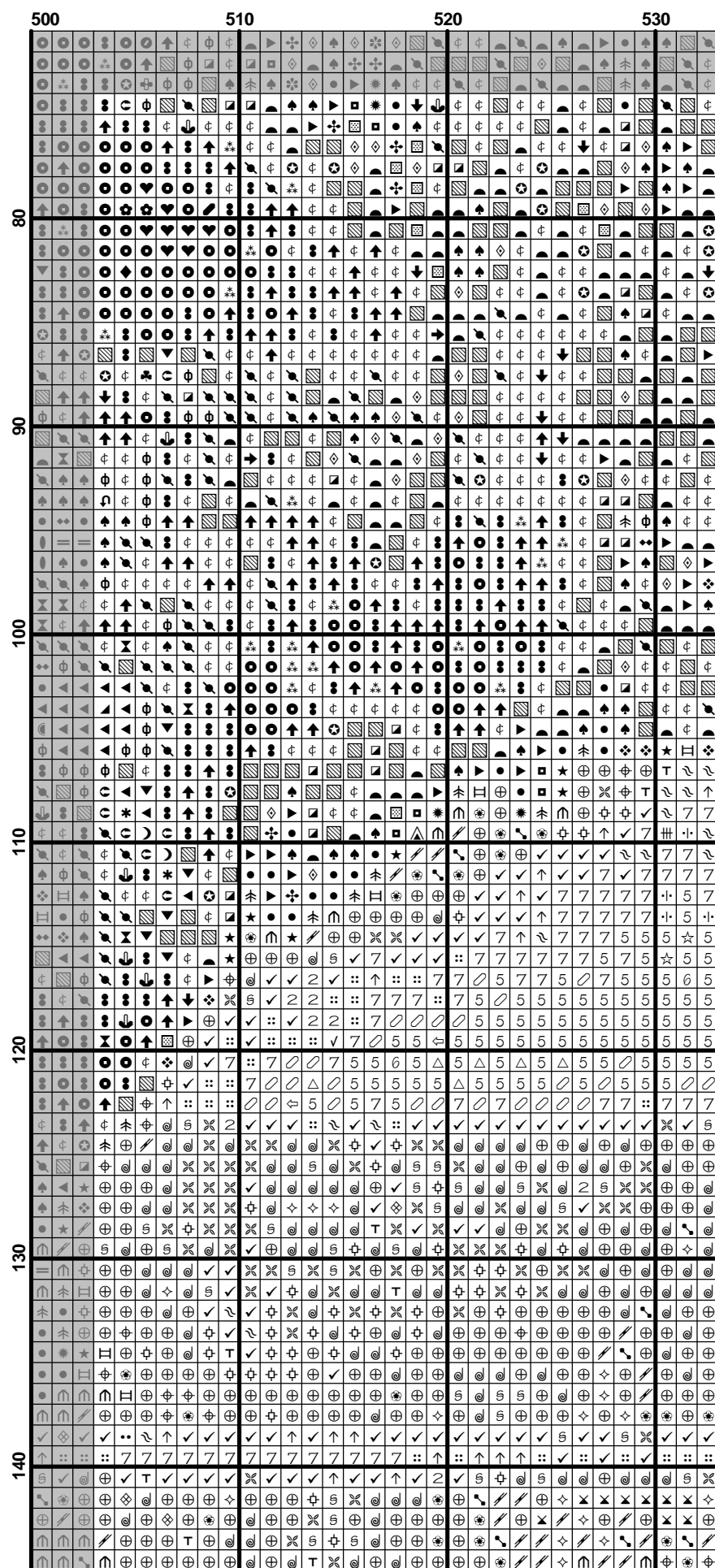
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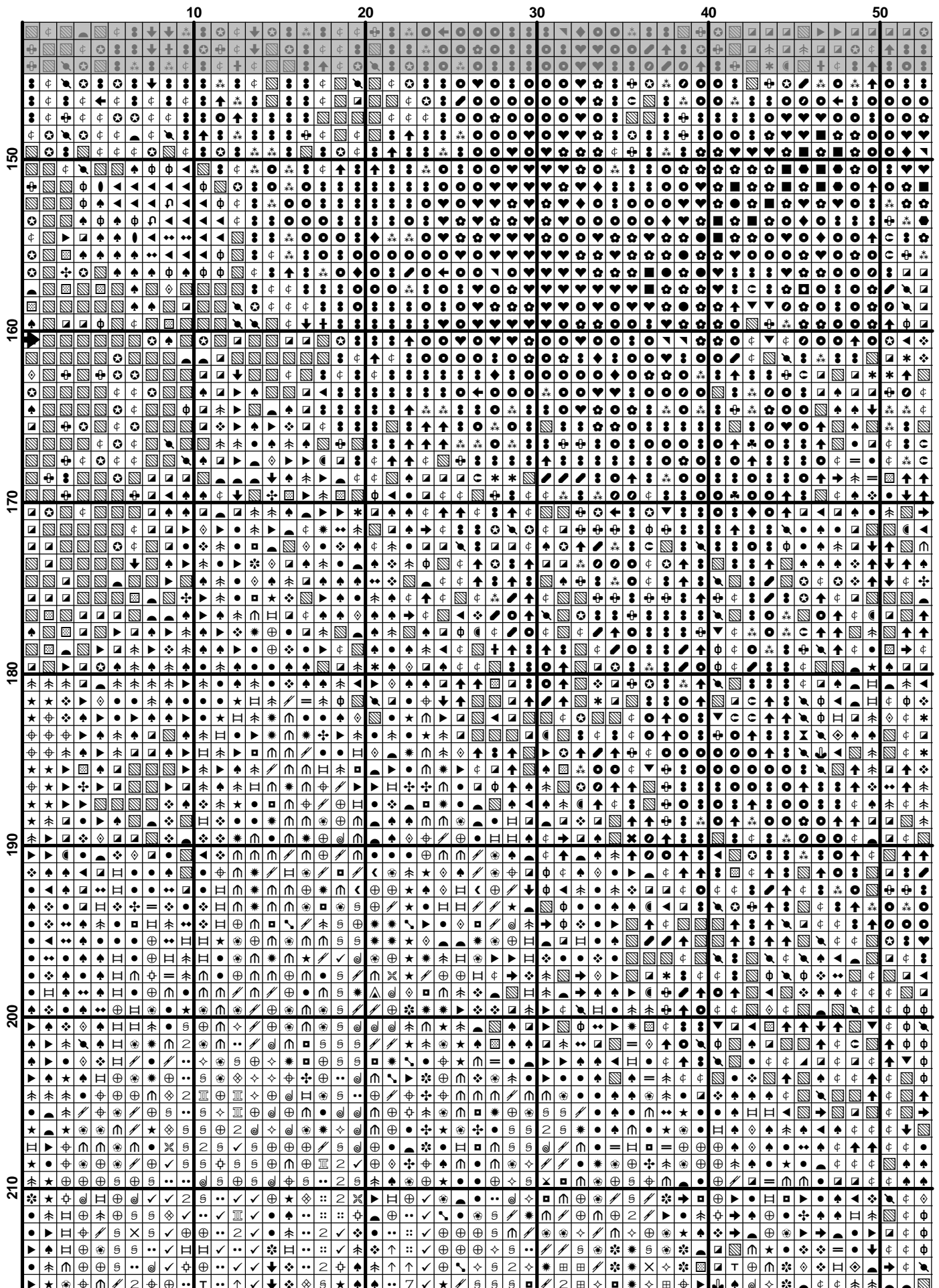


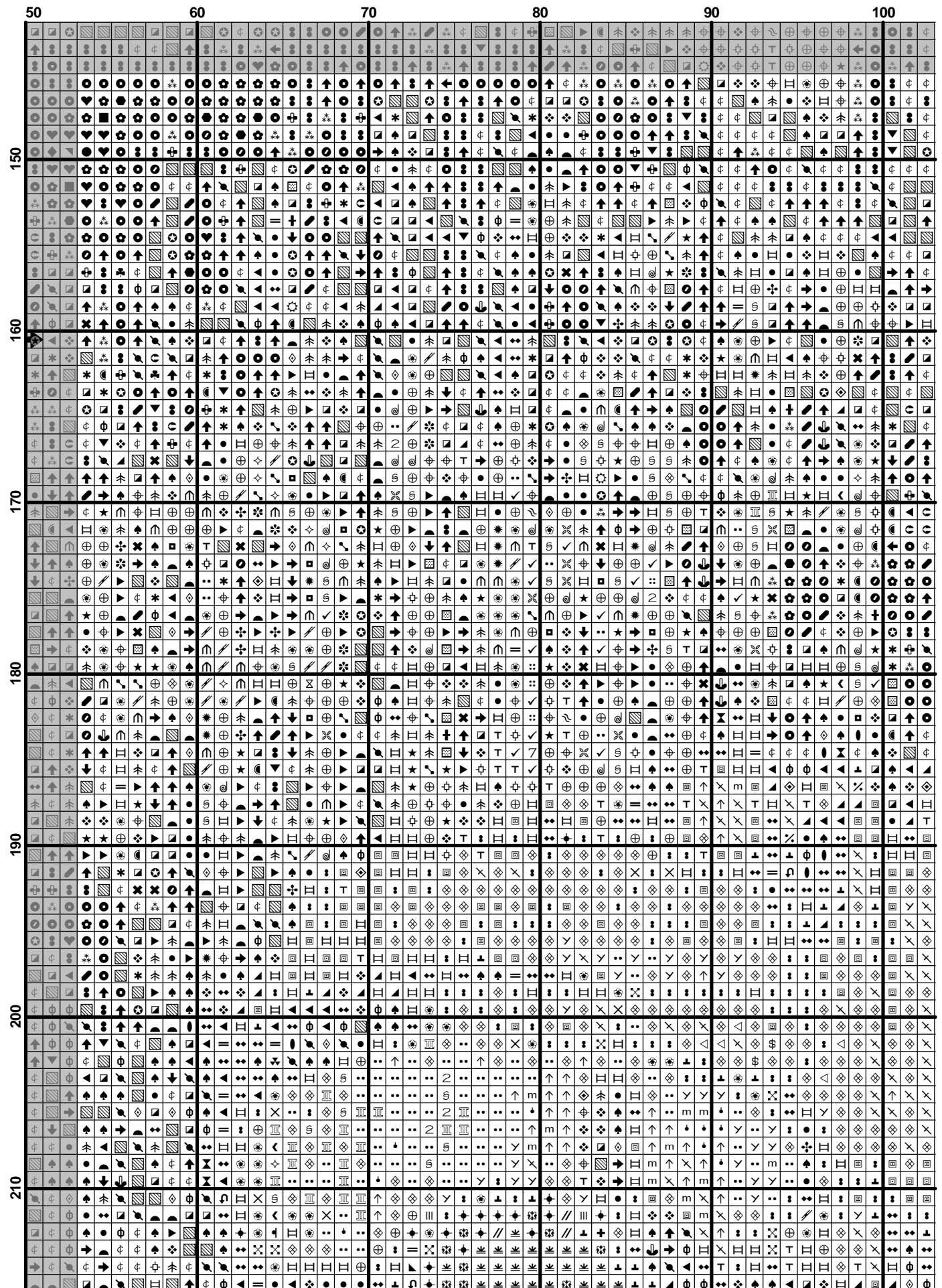


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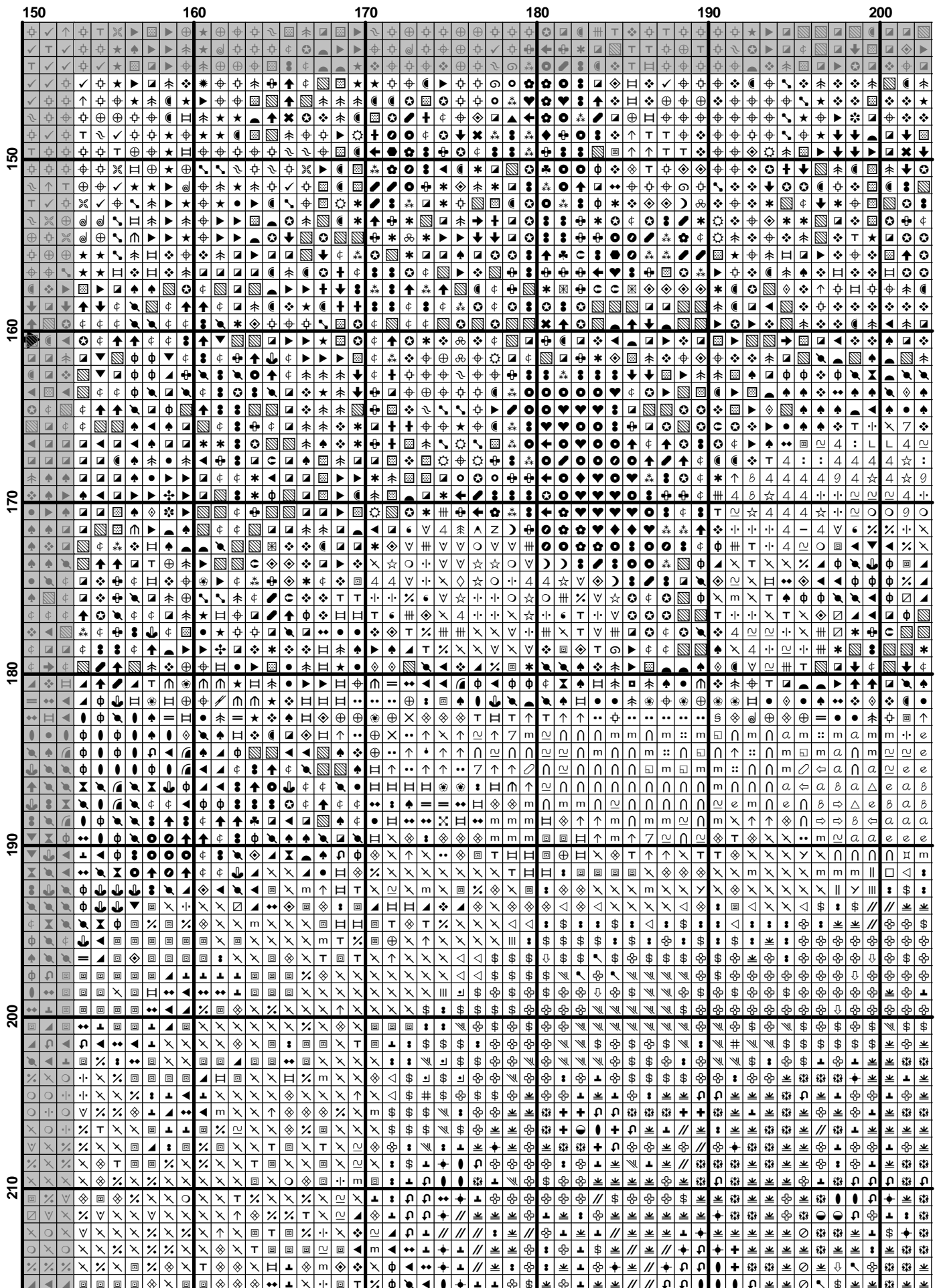
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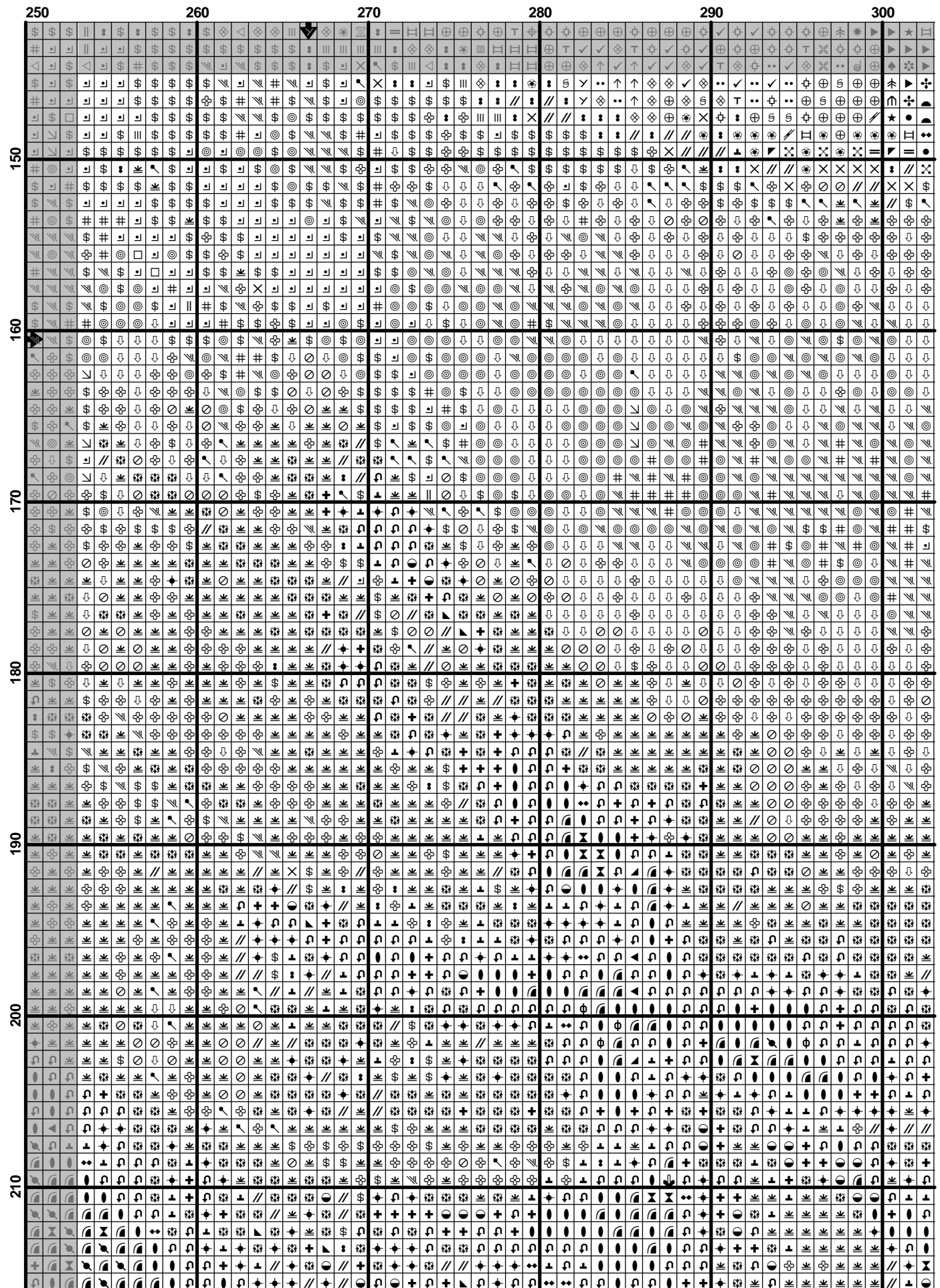


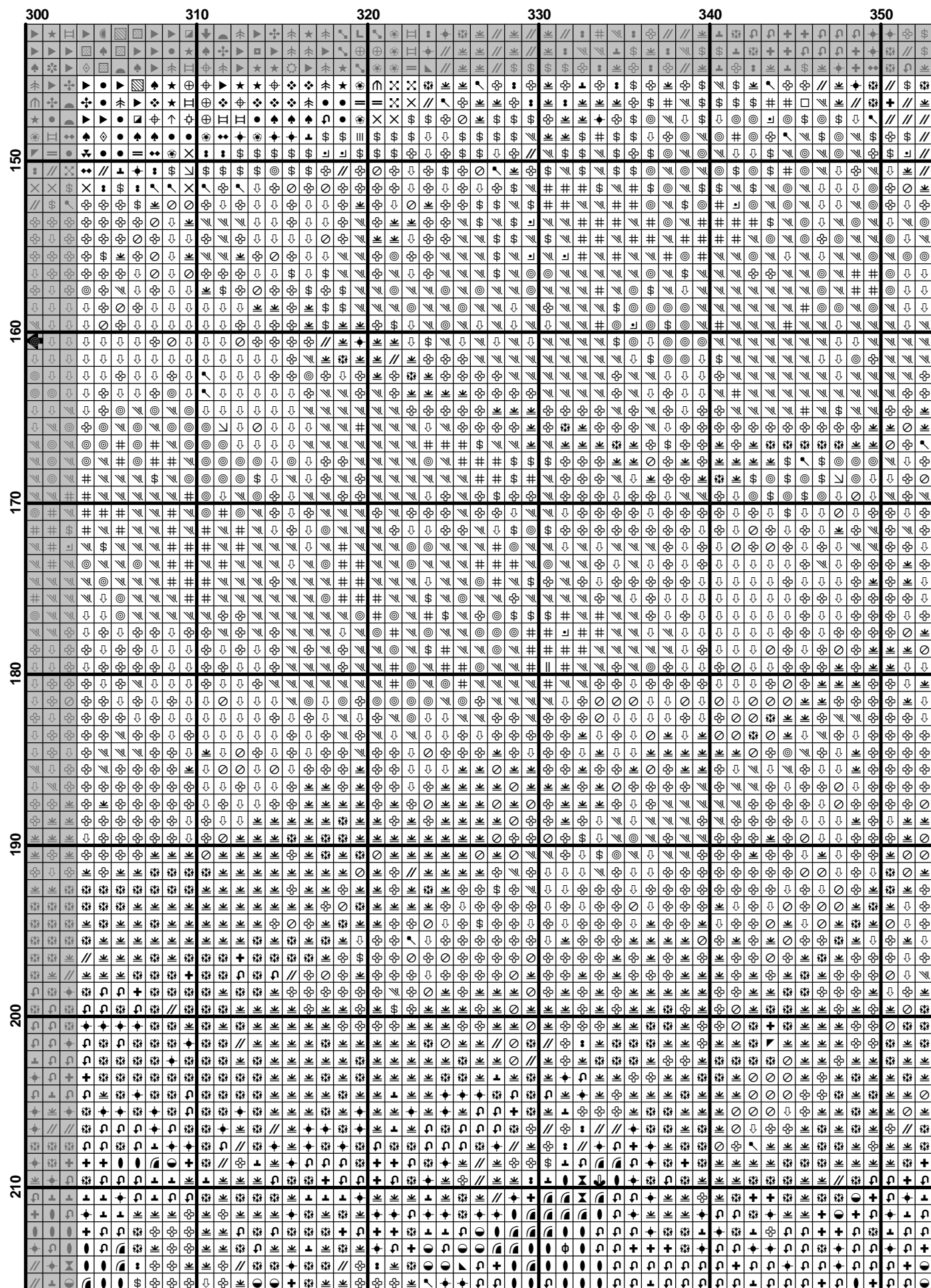


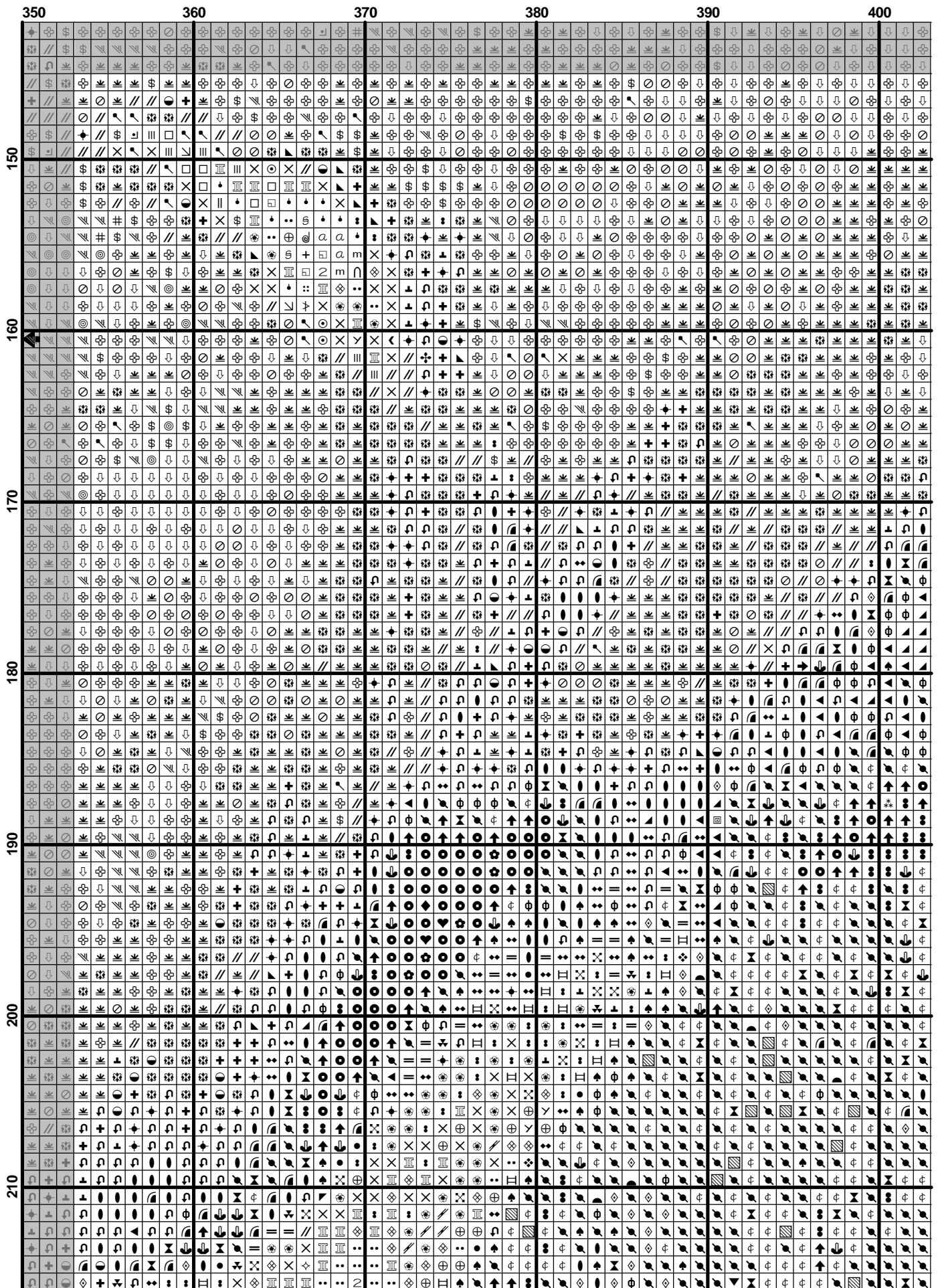
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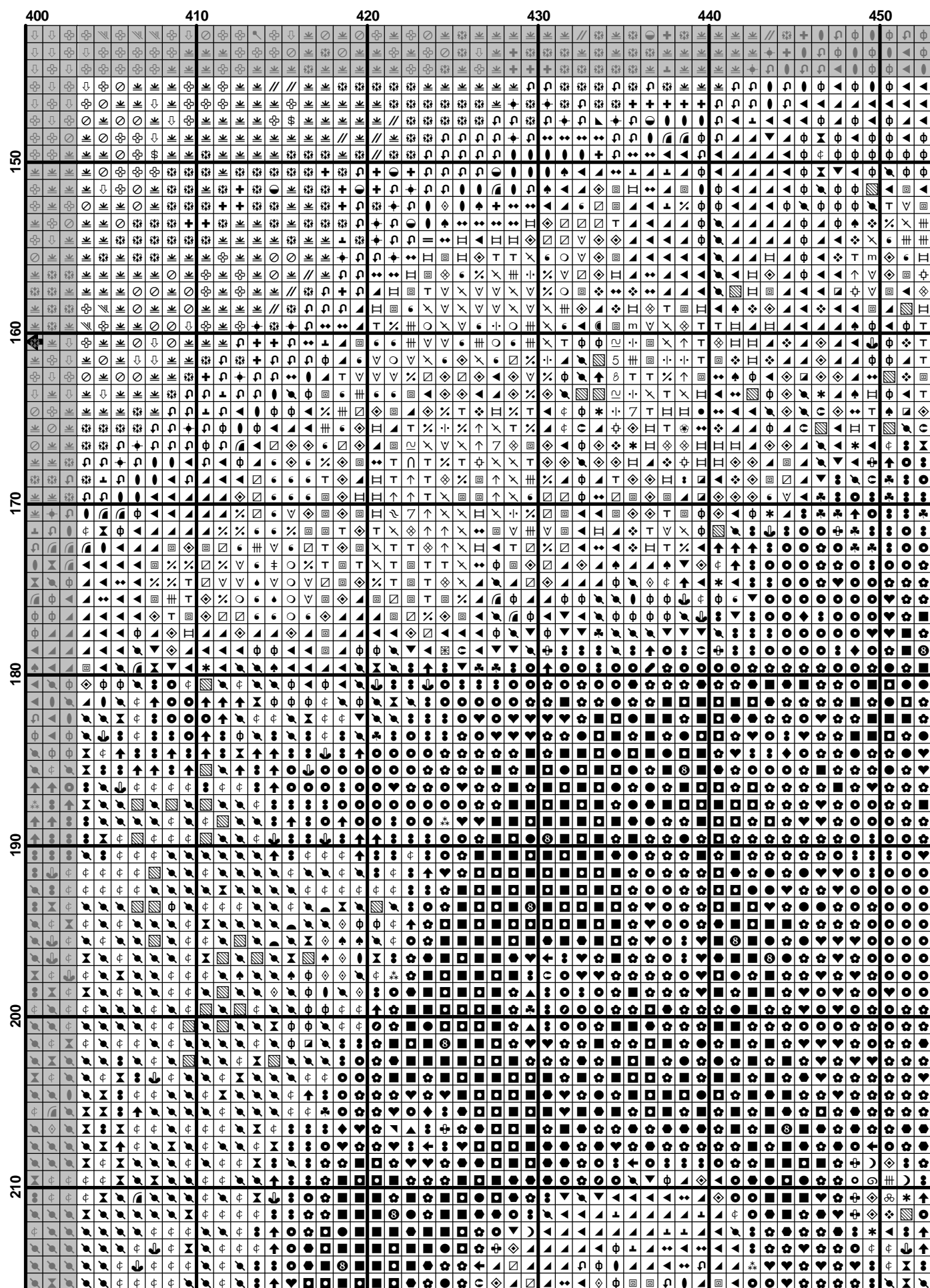


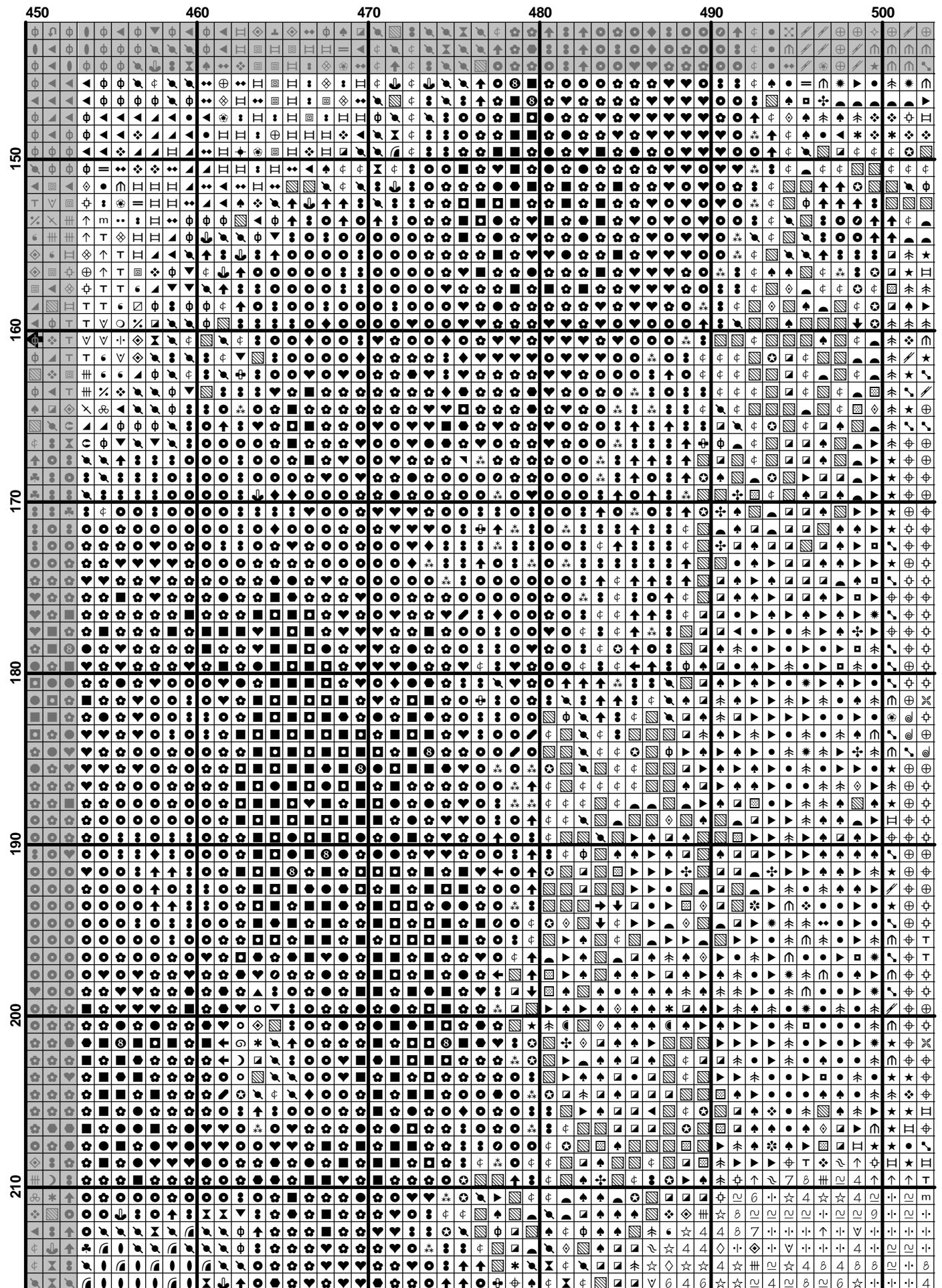
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150						
160						
170						
180						
190						
200						
210						



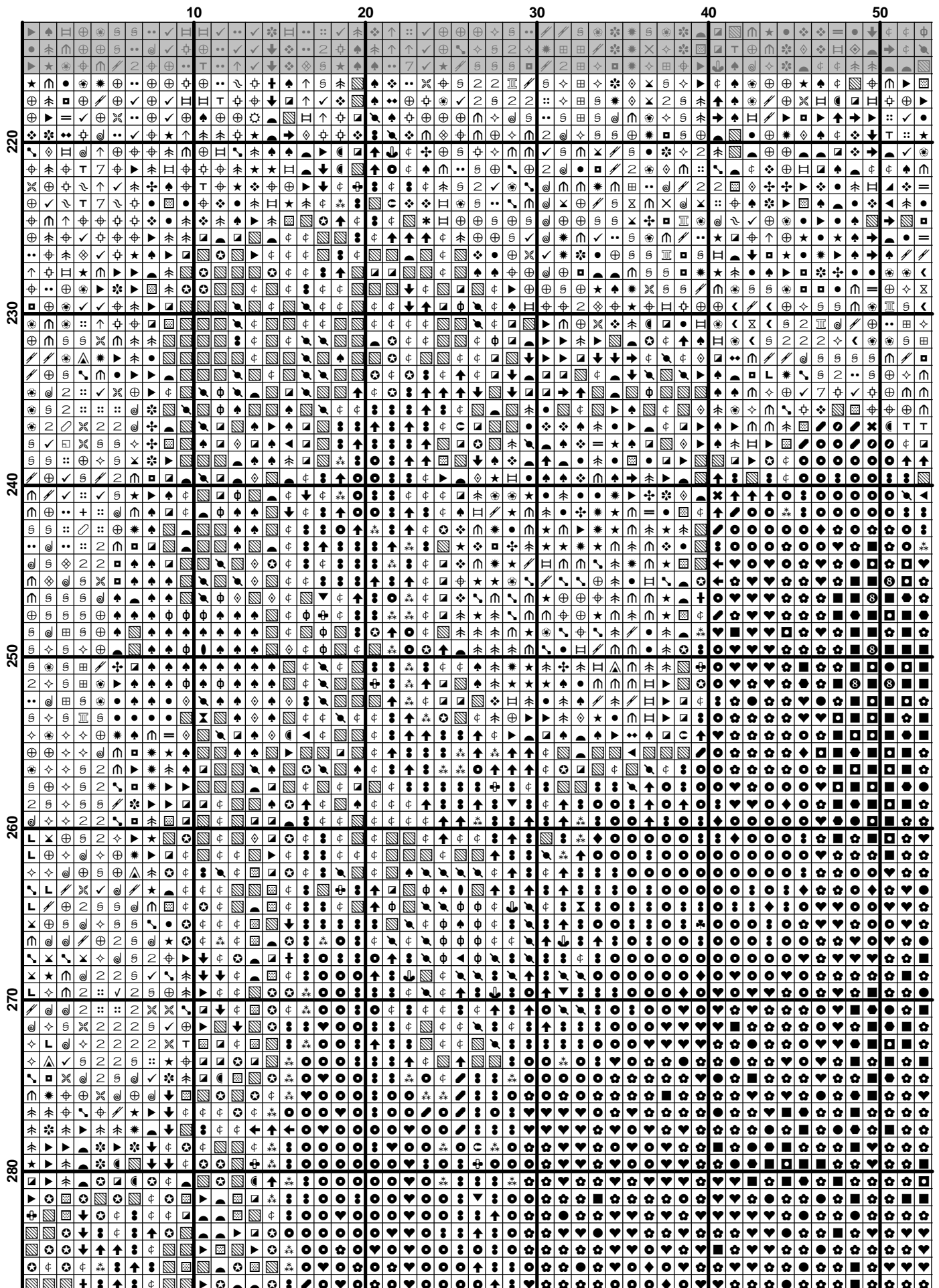


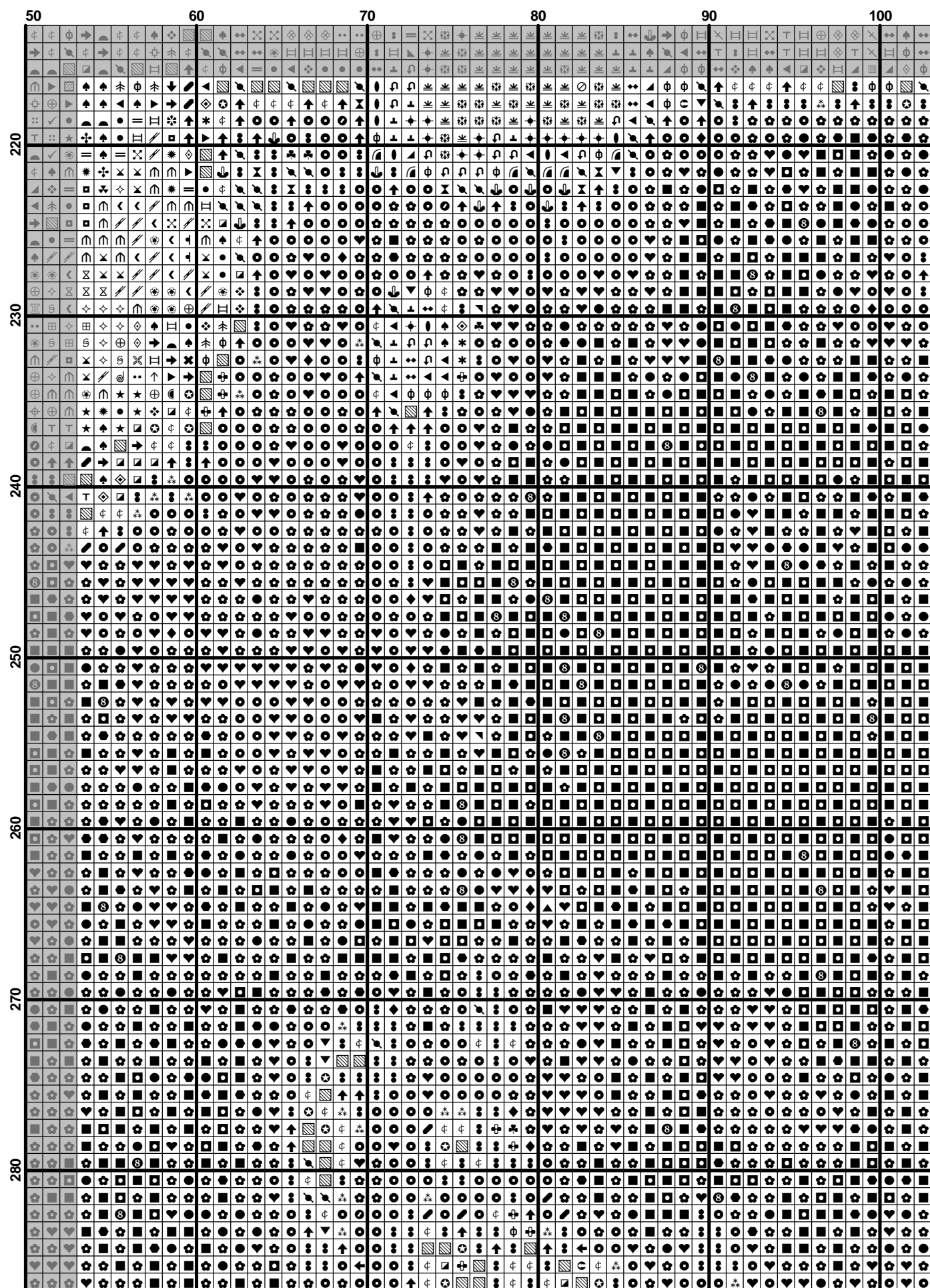


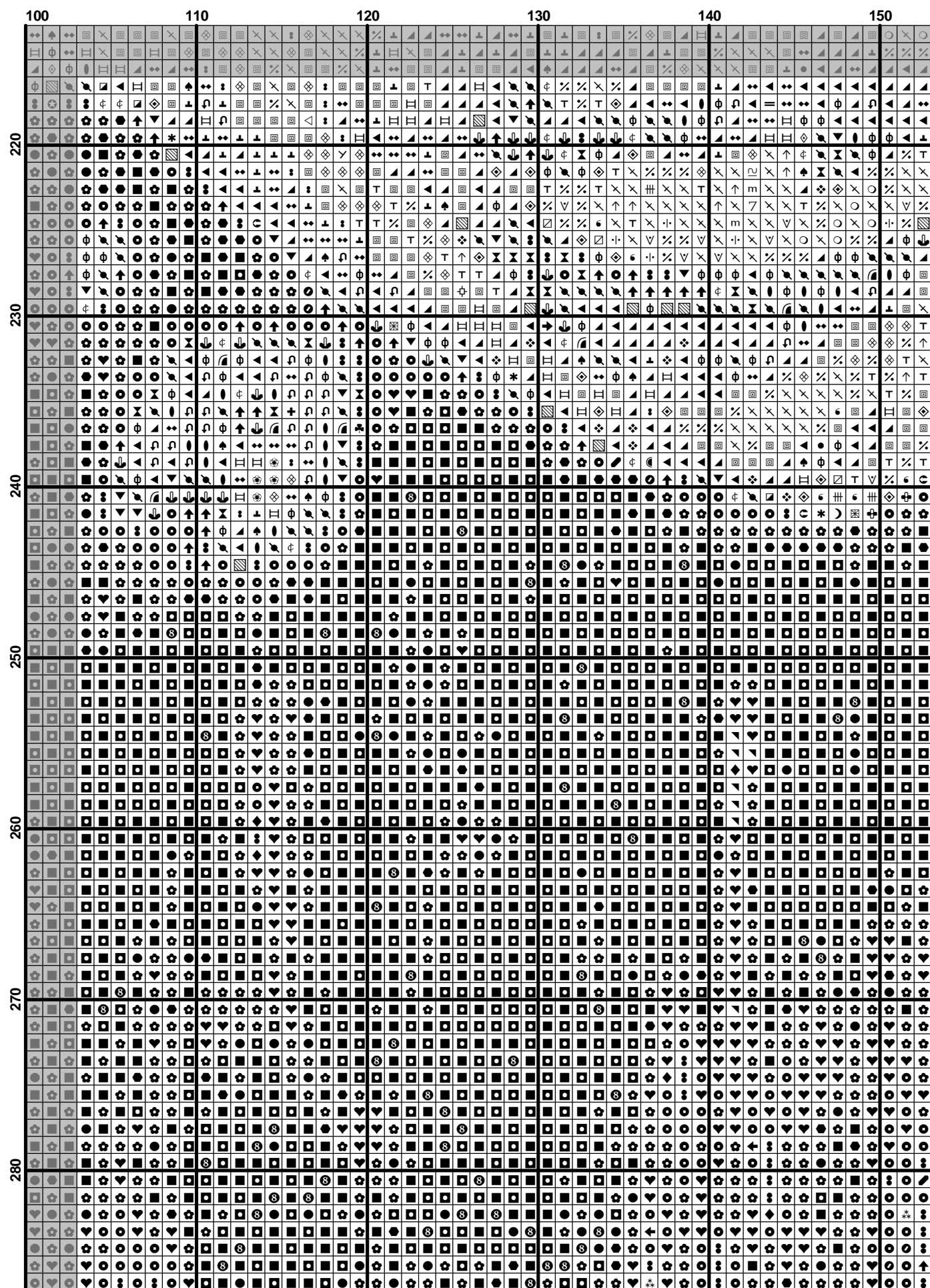


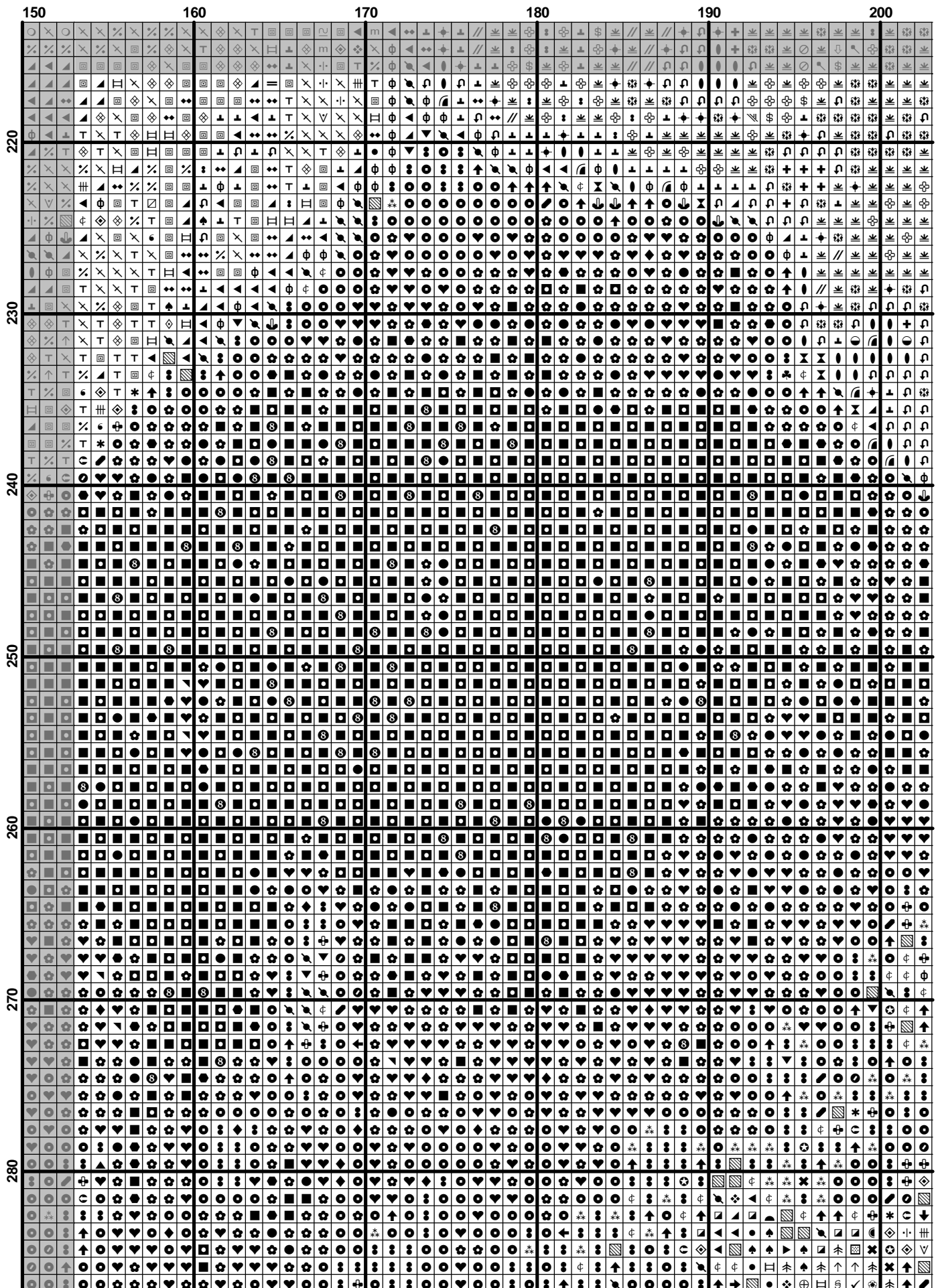


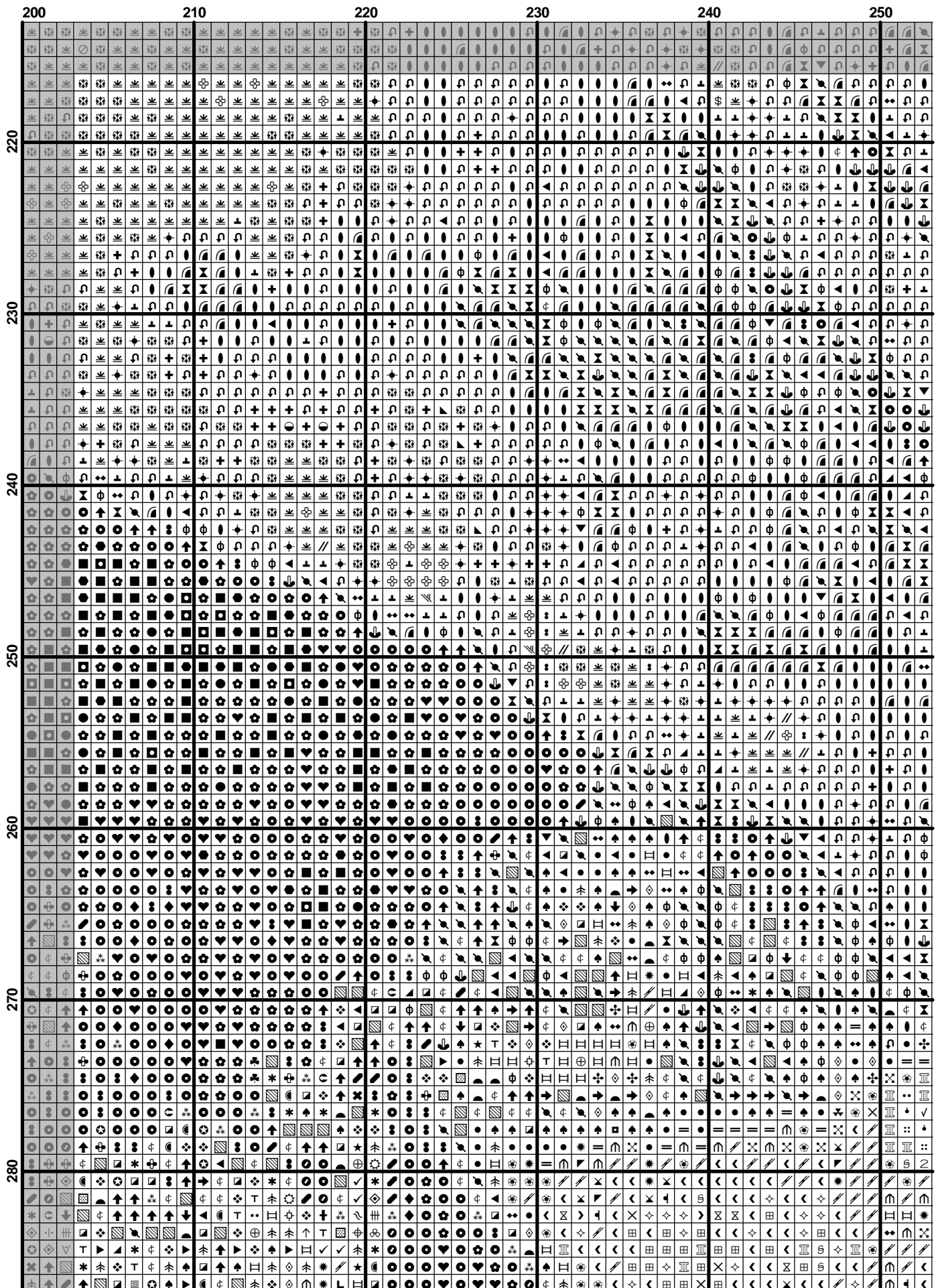
(44)



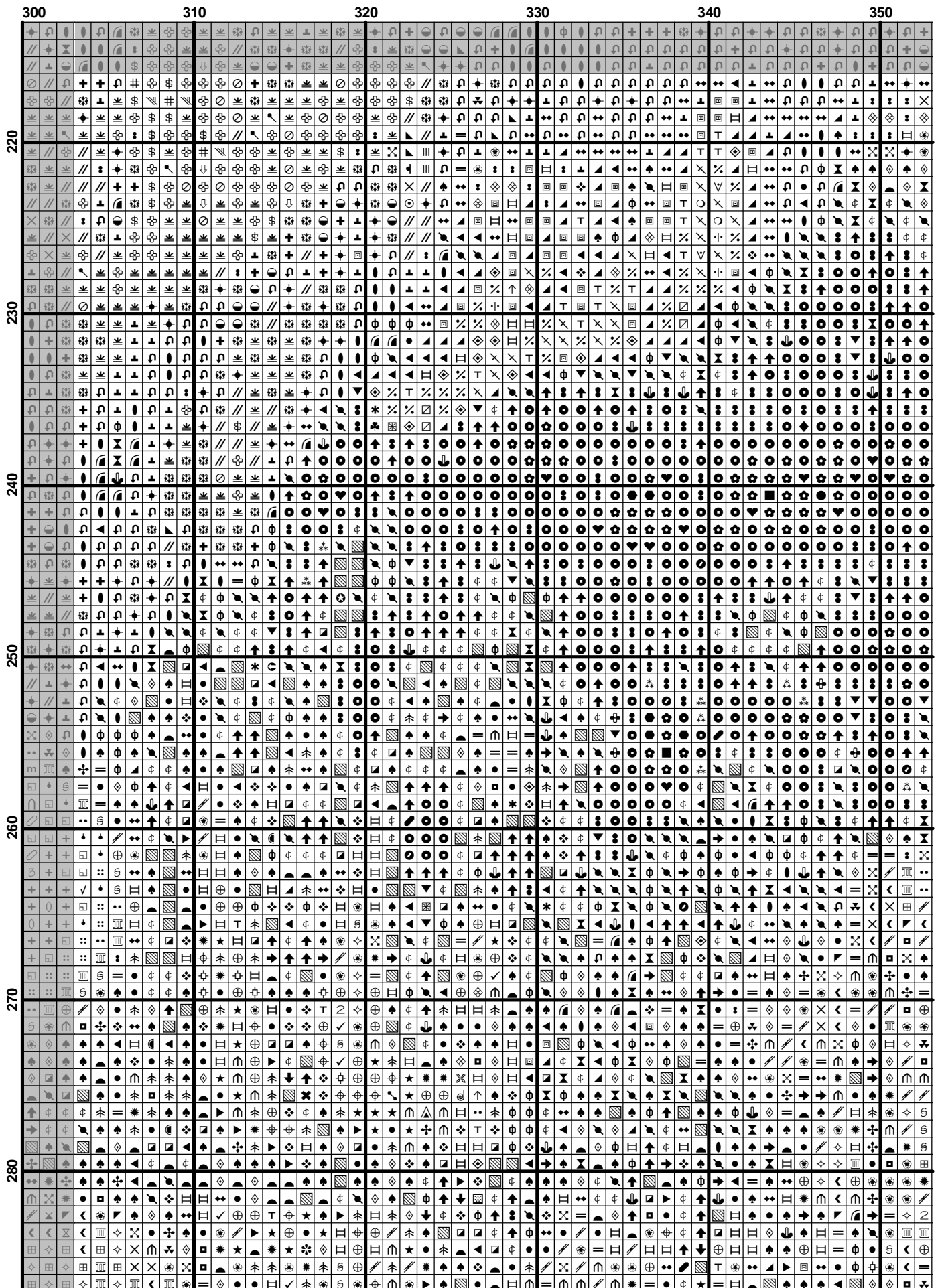


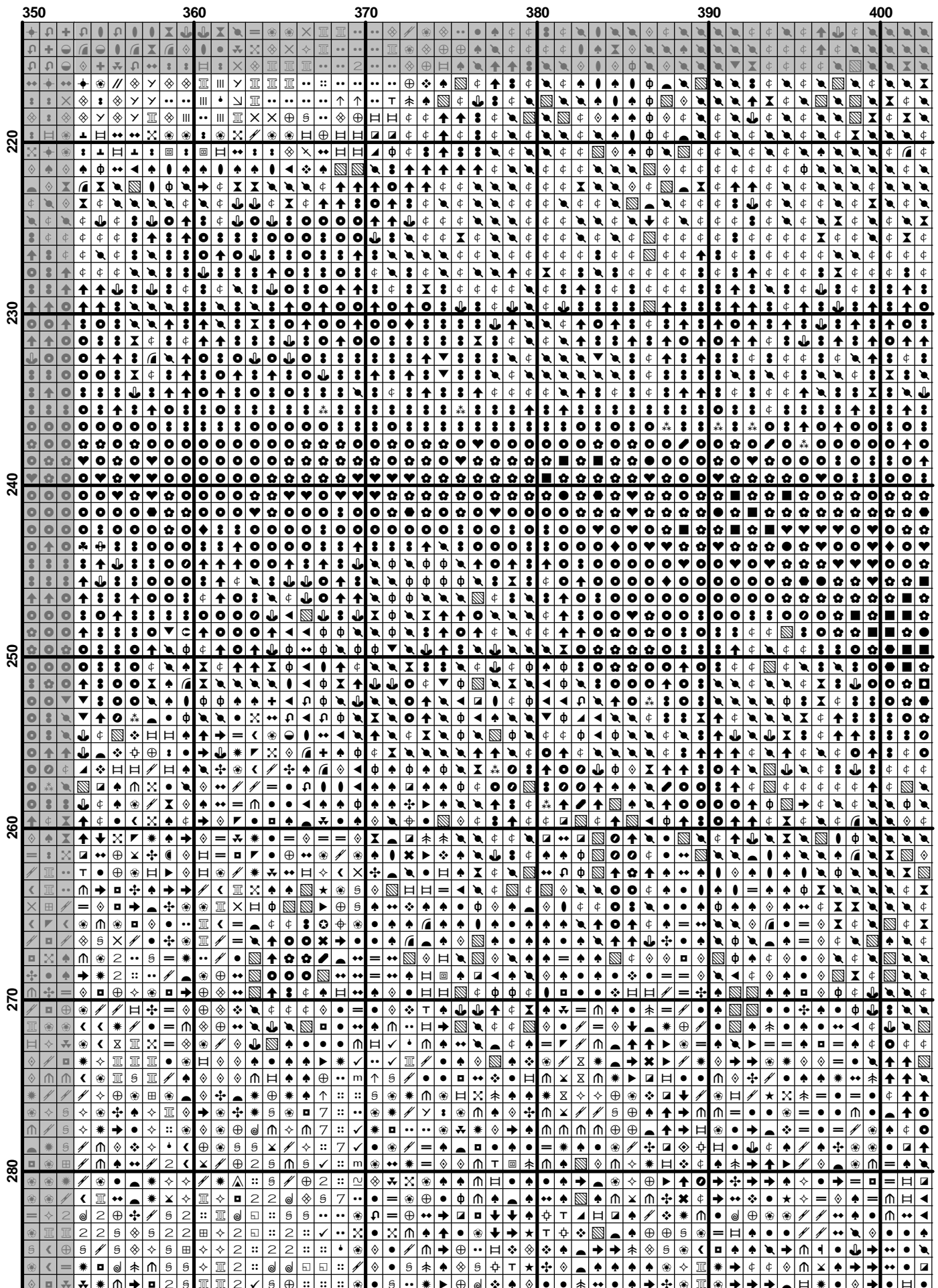


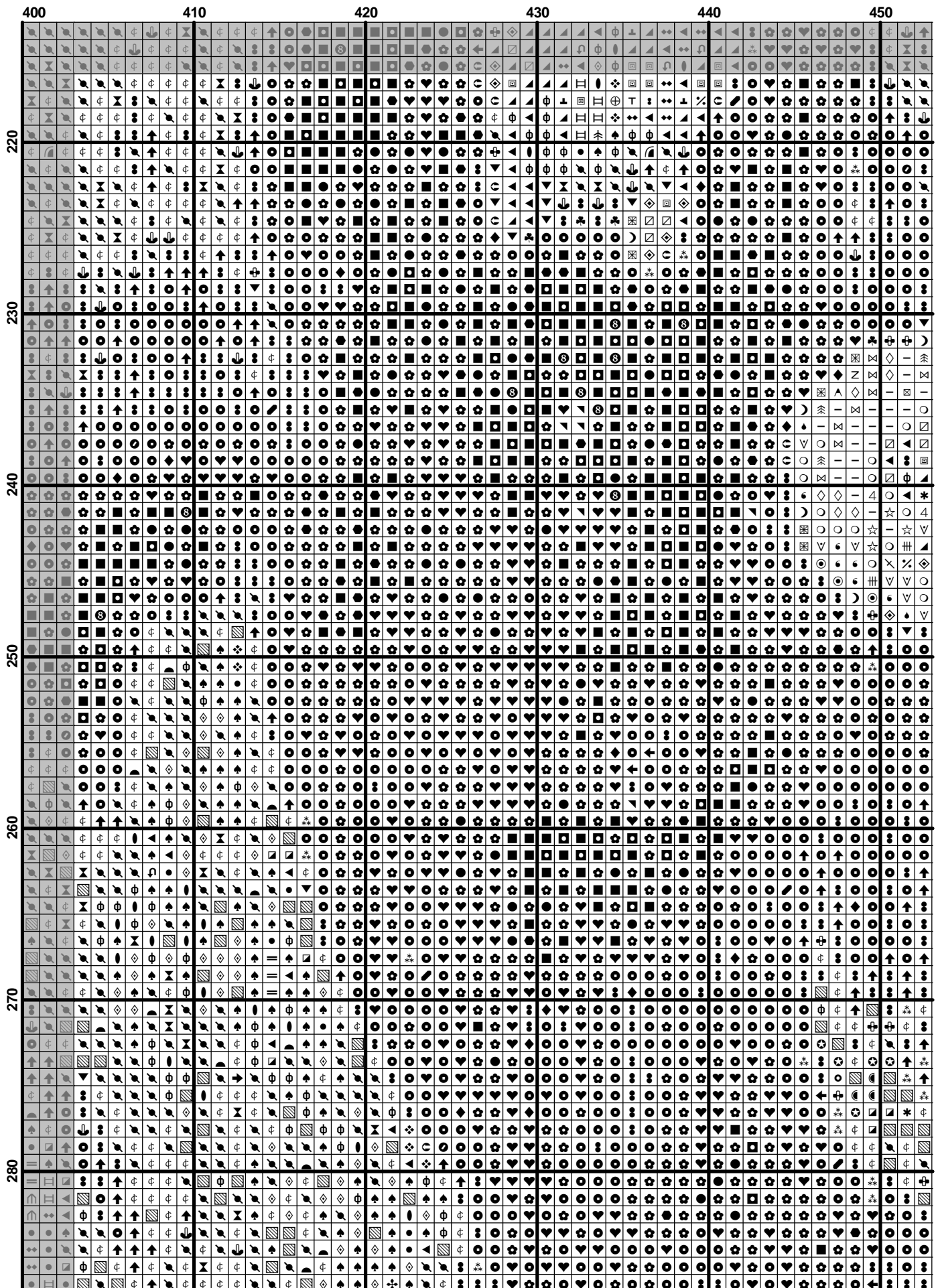


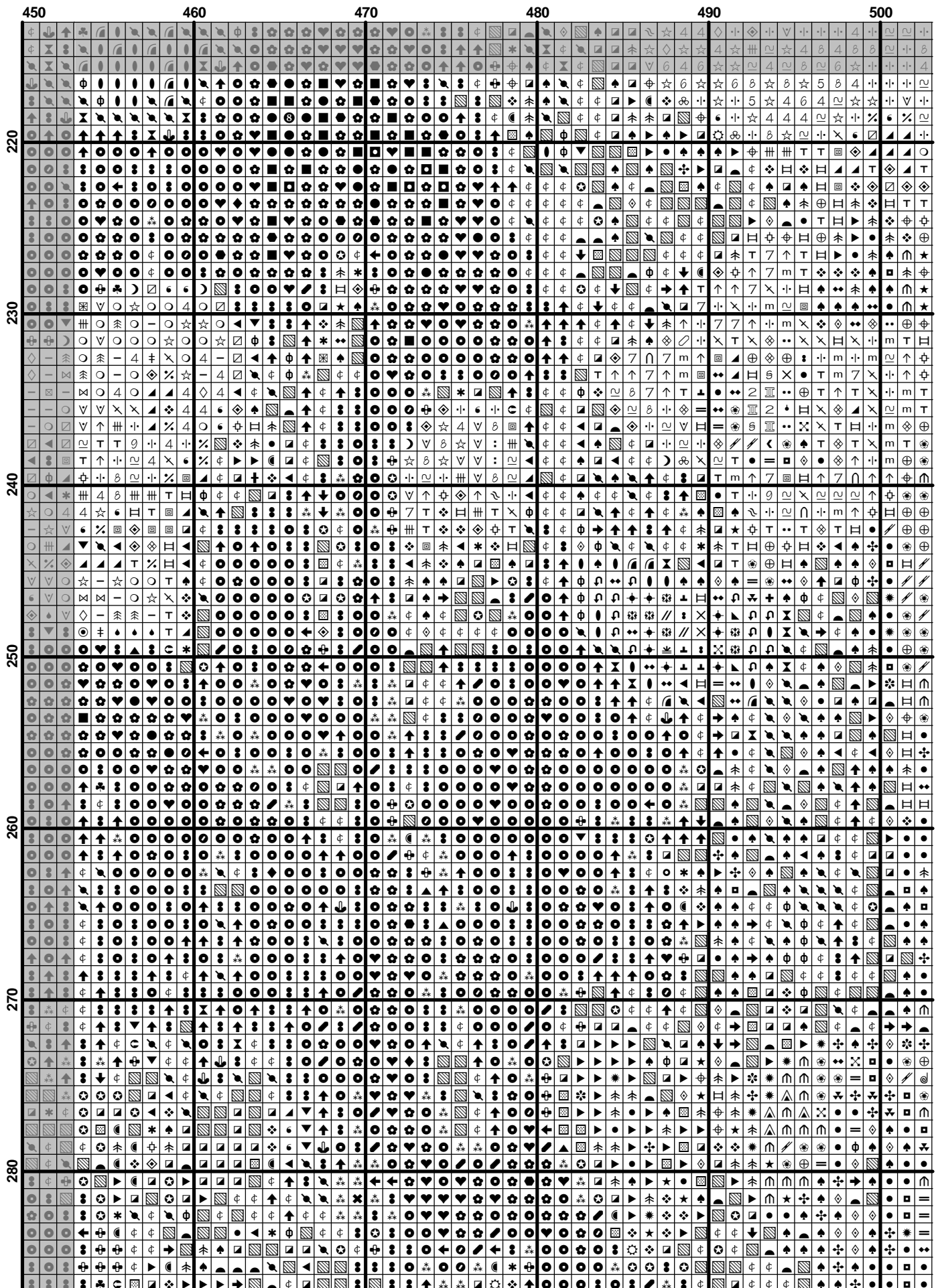


$$(50) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$









(55)

