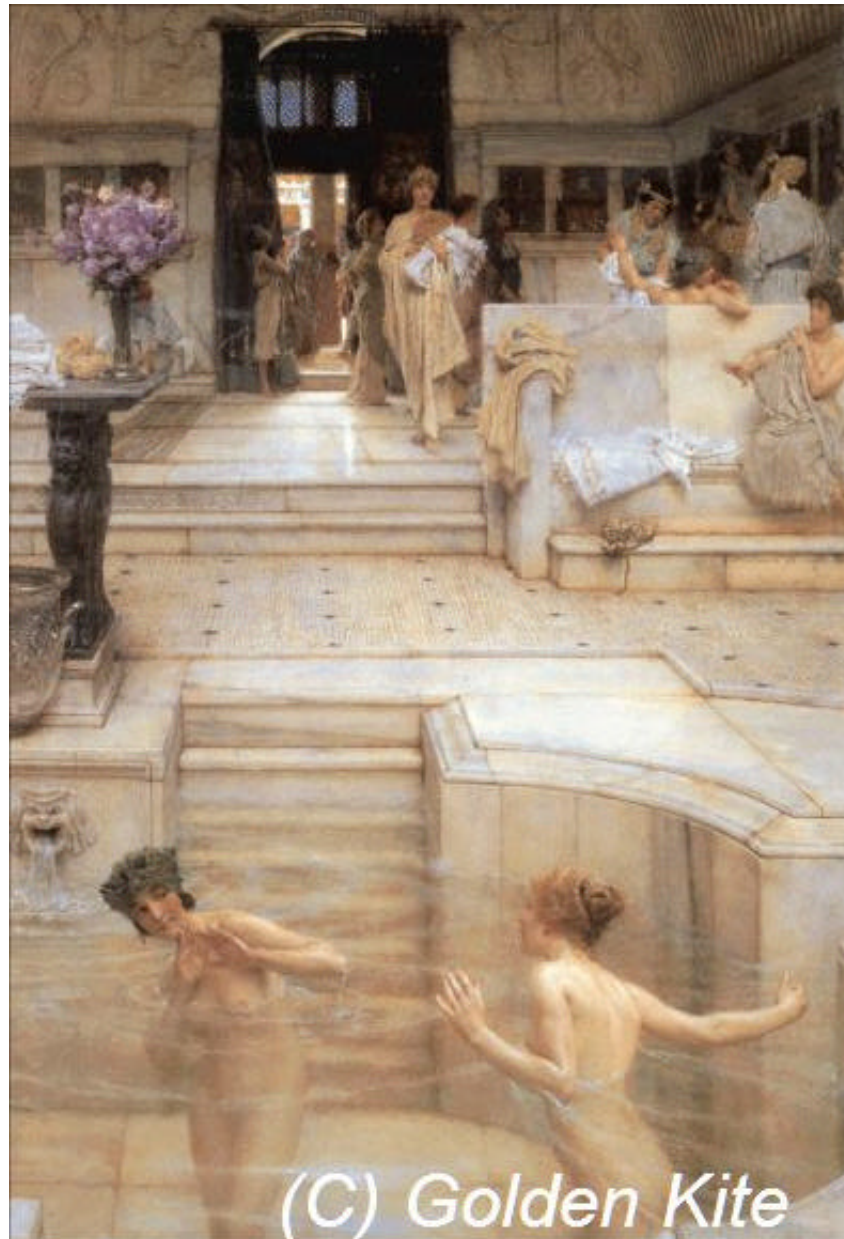


## 1119 A Favorite Custom



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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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## A Favorite Custom

Stitch Count	
Horizontal:	610
Vertical:	895

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:	111	43.55	163	63.8	97	38.1	142	55.82	87	33.875	127	49.625
Including Margins:	127	50	179	70	113	45	158	62	103	40	143	56
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	155	60.97	228	89.32	129	50.8	190	74.43	64	25.4	95	37.21
Including Margins:	171	67	244	96	145	57	206	81	80	32	111	44
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	62	24.38	91	35.72	59	23.45	87	34.35	57	22.58	84	33.08
Including Margins:	78	31	107	42	75	30	103	41	73	29	100	40
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	55	21.77	81	31.9	51	20.32	76	29.77	48	19.05	71	27.91
Including Margins:	71	28	97	38	67	27	92	36	64	26	87	34

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
m	224	Shell Pink-VY LT
■	310	Black
●	316	Antique Mauve-MD
Φ	317	Pewter Gray
⌈	318	Steel Gray-LT
▣	334	Baby Blue-MD
⌘	407	Desert Sand-DK
♣	413	Pewter Gray-DK
Ⓢ	415	Pearl Gray
Ⓣ	436	Tan
✱	437	Tan-LT
◇	451	Shell Gray-DK
∇	452	Shell Gray-MD
e	453	Shell Gray-LT
●	500	Blue Green-VY DK
↓	535	Ash Gray-VY LT
⇒	543	Beige Brown-UL VY LT
▲	610	Drab Brown-DK
◇	613	Drab Brown-VY LT
❖	640	Beige Gray-VY DK
3	644	Beige Gray-MD
Ⓒ	645	Beaver Gray-VY DK
≡	647	Beaver Gray-MD
—	648	Beaver Gray-LT
n	712	Cream
7	738	Tan-VY LT
L	739	Tan-UL VY LT
1	746	Off White
o	747	Sky Blue-VY LT
<	762	Pearl Gray-VY LT
☆	778	Antique Mauve-VY LT
✎	793	Cornflower Blue-MD
∇	813	Blue-LT
▷	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
•	928	Gray Green-VY LT

▲	931	Antique Blue-MD
▣	932	Antique Blue-LT
☼	938	Coffee Brown-UL DK
6	945	Tawny
±	948	Peach-VY LT
δ	950	Desert Sand-LT
•	951	Tawny-LT
↓	3021	Brown Gray-VY DK
Φ	3022	Brown Gray-MD
III	3023	Brown Gray-LT
⇐	3024	Brown Gray-VY LT
●	3031	Mocha Brown-VY DK
↘	3032	Mocha Brown-MD
*	3041	Antique Violet-MD
ℳ	3042	Antique Violet-LT
⌘	3064	Desert Sand
∇	3072	Beaver Gray-VY LT
■	3371	Black Brown
↘	3740	Antique Violet-DK
9	3743	Antique Violet-VY LT
/	3747	Blue Violet-VY LT
⌈	3752	Antique Blue-VY LT
:	3753	Antique Blue-UL VY LT
∞	3756	Baby Blue-UL VY LT
δ	3770	Tawny-VY LT
▲	3772	Desert Sand-VY DK
○	3774	Desert Sand-VY LT
➔	3781	Mocha Brown-DK
✓	3782	Mocha Brown-LT
⊙	3787	Brown Gray-DK
▣	3790	Beige Gray-UL DK
●	3799	Pewter Gray-VY DK
II	3825	Pumpkin-Pale
c	3834	Grape-DK
‡	3836	Grape-LT
=	3841	Baby Blue-Pale
4	3856	Mahogany-UL VY LT
□	3859	Rosewood-LT
☒	3860	Cocoa
⊙	3861	Cocoa-LT
⌘	3862	Mocha Beige-DK
⊙	3863	Mocha Beige-MD
○	3864	Mocha Beige-LT
u	3865	Winter White
□	3866	Mocha Brown-UL VY LT
∞	Ecru	Ecru

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

Symbol	DMC1	Name1	DMC2	Name2
◆	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
↗	839	Beige Brown-DK	3787	Brown Gray-DK
■	3772	Desert Sand-VY DK	3860	Cocoa
↑	838	Beige Brown-VY DK	839	Beige Brown-DK
➤	3064	Desert Sand	3863	Mocha Beige-MD
⬇	3860	Cocoa	3862	Mocha Beige-DK
△	758	Terra Cotta-VY LT	3856	Mahogany-UL VY LT
✚	640	Beige Gray-VY DK	3860	Cocoa
⊕	3859	Rosewood-LT	3064	Desert Sand
⌘	738	Tan-VY LT	3864	Mocha Beige-LT
⋈	738	Tan-VY LT	758	Terra Cotta-VY LT
▣	356	Terra Cotta-MD	3064	Desert Sand
×	356	Terra Cotta-MD	436	Tan
⦿	3041	Antique Violet-MD	3740	Antique Violet-DK
●	938	Coffee Brown-UL DK	3371	Black Brown
●	451	Shell Gray-DK	3860	Cocoa
◎	3861	Cocoa-LT	3864	Mocha Beige-LT
⬆	3772	Desert Sand-VY DK	223	Shell Pink-LT
↓	452	Shell Gray-MD	648	Beaver Gray-LT
▤	3787	Brown Gray-DK	3860	Cocoa
▼	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
▲	3023	Brown Gray-LT	3861	Cocoa-LT
⚡	451	Shell Gray-DK	647	Beaver Gray-MD
▴	3726	Antique Mauve-DK	451	Shell Gray-DK
✚	3726	Antique Mauve-DK	3861	Cocoa-LT
↑	407	Desert Sand-DK	738	Tan-VY LT
⦿	640	Beige Gray-VY DK	3790	Beige Gray-UL DK
⬅	3032	Mocha Brown-MD	223	Shell Pink-LT
✚	407	Desert Sand-DK	3864	Mocha Beige-LT
⋈	407	Desert Sand-DK	758	Terra Cotta-VY LT
✱	3863	Mocha Beige-MD	841	Beige Brown-LT
♡	951	Tawny-LT	754	Peach-LT
⬆	3772	Desert Sand-VY DK	3859	Rosewood-LT
⦿	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
⬇	948	Peach-VY LT	3823	Yellow-UL Pale
⦿	3032	Mocha Brown-MD	3863	Mocha Beige-MD
⦿	840	Beige Brown-MD	3860	Cocoa
⦿	640	Beige Gray-VY DK	840	Beige Brown-MD
⦿	3032	Mocha Brown-MD	451	Shell Gray-DK
⋈	3032	Mocha Brown-MD	640	Beige Gray-VY DK
★	640	Beige Gray-VY DK	3863	Mocha Beige-MD
⦿	3032	Mocha Brown-MD	3772	Desert Sand-VY DK
✚	3772	Desert Sand-VY DK	640	Beige Gray-VY DK
⦿	3032	Mocha Brown-MD	841	Beige Brown-LT
⦿	3772	Desert Sand-VY DK	841	Beige Brown-LT
▶	451	Shell Gray-DK	3787	Brown Gray-DK
⦿	3371	Black Brown	3031	Mocha Brown-VY DK
♥	3031	Mocha Brown-VY DK	3799	Pewter Gray-VY DK
✱	3041	Antique Violet-MD	926	Gray Green-MD
⦿	3755	Baby Blue	793	Cornflower Blue-MD
⦿	3721	Shell Pink-DK	3862	Mocha Beige-DK
⦿	451	Shell Gray-DK	646	Beaver Gray-DK
⦿	3787	Brown Gray-DK	646	Beaver Gray-DK

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⦿	839	Beige Brown-DK	3863	Mocha Beige-MD
⦿	420	Hazelnut Brown-DK	3863	Mocha Beige-MD
●	839	Beige Brown-DK	3862	Mocha Beige-DK
♠	3721	Shell Pink-DK	3863	Mocha Beige-MD
≡	3862	Mocha Beige-DK	3863	Mocha Beige-MD
♠	451	Shell Gray-DK	640	Beige Gray-VY DK
✱	839	Beige Brown-DK	640	Beige Gray-VY DK
✕	844	Beaver Brown-UL DK	3031	Mocha Brown-VY DK
⌵	3031	Mocha Brown-VY DK	3787	Brown Gray-DK
∩	928	Gray Green-VY LT	3042	Antique Violet-LT
z	3032	Mocha Brown-MD	3861	Cocoa-LT
▼	3768	Gray Green-DK	645	Beaver Gray-VY DK
†	839	Beige Brown-DK	3726	Antique Mauve-DK
⌘	3064	Desert Sand	841	Beige Brown-LT
⤵	3864	Mocha Beige-LT	3023	Brown Gray-LT
⋮	436	Tan	3772	Desert Sand-VY DK
⌘	553	Violet	3861	Cocoa-LT
♠	553	Violet	3042	Antique Violet-LT
♣	3834	Grape-DK	3860	Cocoa
✕	316	Antique Mauve-MD	3041	Antique Violet-MD
⌵	647	Beaver Gray-MD	927	Gray Green-LT
⌵	553	Violet	647	Beaver Gray-MD
⦿	842	Beige Brown-VY LT	3864	Mocha Beige-LT
∅	739	Tan-UL VY LT	453	Shell Gray-LT
⦿	3743	Antique Violet-VY LT	3072	Beaver Gray-VY LT
∩	778	Antique Mauve-VY LT	928	Gray Green-VY LT
(	747	Sky Blue-VY LT	762	Pearl Gray-VY LT
⌵	453	Shell Gray-LT	928	Gray Green-VY LT
△	3743	Antique Violet-VY LT	3753	Antique Blue-UL VY LT
∩	3064	Desert Sand	758	Terra Cotta-VY LT
⦿	739	Tan-UL VY LT	950	Desert Sand-LT
+	3740	Antique Violet-DK	926	Gray Green-MD
⦿	3756	Baby Blue-UL VY LT	762	Pearl Gray-VY LT
^	712	Cream	762	Pearl Gray-VY LT
«	3865	Winter White	3756	Baby Blue-UL VY LT
▲	3722	Shell Pink-MD	3772	Desert Sand-VY DK
⦿	3064	Desert Sand	3856	Mahogany-UL VY LT
⌘	3825	Pumpkin-Pale	3856	Mahogany-UL VY LT
α	754	Peach-LT	842	Beige Brown-VY LT
⦿	3064	Desert Sand	3772	Desert Sand-VY DK
+	3072	Beaver Gray-VY LT	3752	Antique Blue-VY LT
⌘	3023	Brown Gray-LT	841	Beige Brown-LT
5	738	Tan-VY LT	945	Tawny
)	762	Pearl Gray-VY LT	3841	Baby Blue-Pale
⌘	3743	Antique Violet-VY LT	3752	Antique Blue-VY LT
τ	841	Beige Brown-LT	407	Desert Sand-DK
⦿	407	Desert Sand-DK	3064	Desert Sand
〉	754	Peach-LT	3823	Yellow-UL Pale
∅	3024	Brown Gray-VY LT	415	Pearl Gray
⦿	451	Shell Gray-DK	3834	Grape-DK
⦿	3740	Antique Violet-DK	316	Antique Mauve-MD
⦿	553	Violet	927	Gray Green-LT
⦿	3041	Antique Violet-MD	451	Shell Gray-DK
//	841	Beige Brown-LT	3862	Mocha Beige-DK
⦿	647	Beaver Gray-MD	3861	Cocoa-LT
l	3774	Desert Sand-VY LT	3823	Yellow-UL Pale
√	738	Tan-VY LT	842	Beige Brown-VY LT
h	407	Desert Sand-DK	3856	Mahogany-UL VY LT



This table specifies how much thread of each color is required to stitch this pattern. It is good to know that one complete DMC skein contains 313 inches (795 cm) thread.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
223	Shell Pink-LT	724	285	689	271	620	244
224	Shell Pink-VY LT	215	84	204	80	184	72
310	Black	1922	756	1831	720	1648	648
316	Antique Mauve-MD	78	30	75	29	67	26
317	Pewter Gray	64	25	61	24	55	21
318	Steel Gray-LT	21	8	20	7	18	7
334	Baby Blue-MD	6	2	5	1	5	1
356	Terra Cotta-MD	32	12	31	12	28	11
407	Desert Sand-DK	6010	2366	5724	2253	5151	2027
413	Pewter Gray-DK	61	24	58	22	52	20
415	Pearl Gray	663	261	631	248	568	223
420	Hazelnut Brown-DK	20	7	19	7	17	6
436	Tan	211	83	201	79	181	71
437	Tan-LT	38	14	36	14	33	12
451	Shell Gray-DK	3223	1268	3070	1208	2763	1087
452	Shell Gray-MD	3310	1303	3152	1240	2837	1116
453	Shell Gray-LT	6017	2368	5731	2256	5157	2030
500	Blue Green-VY DK	272	107	259	101	233	91
535	Ash Gray-VY LT	693	272	660	259	594	233
543	Beige Brown-UL VY LT	1717	675	1636	644	1472	579
553	Violet	133	52	127	50	114	44
610	Drab Brown-DK	38	14	36	14	32	12
613	Drab Brown-VY LT	414	162	394	155	355	139
640	Beige Gray-VY DK	3894	1533	3709	1460	3338	1314
644	Beige Gray-MD	1253	493	1193	469	1074	422
645	Beaver Gray-VY DK	794	312	757	298	681	268
646	Beaver Gray-DK	188	74	179	70	161	63
647	Beaver Gray-MD	903	355	860	338	774	304
648	Beaver Gray-LT	2500	984	2381	937	2143	843
712	Cream	1413	556	1345	529	1211	476
738	Tan-VY LT	4892	1925	4659	1834	4193	1650
739	Tan-UL VY LT	1485	584	1415	557	1273	501
746	Off White	66	25	63	24	57	22
747	Sky Blue-VY LT	217	85	207	81	186	73
754	Peach-LT	752	296	717	282	645	253
758	Terra Cotta-VY LT	775	305	739	290	665	261
762	Pearl Gray-VY LT	2552	1004	2430	956	2187	861
778	Antique Mauve-VY LT	1109	436	1057	416	951	374
793	Cornflower Blue-MD	35	13	34	13	30	11
813	Blue-LT	6	2	5	1	5	1
822	Beige Gray-LT	1436	565	1368	538	1231	484
838	Beige Brown-VY DK	338	133	322	126	289	113
839	Beige Brown-DK	2828	1113	2694	1060	2424	954
840	Beige Brown-MD	1254	493	1194	470	1075	423
841	Beige Brown-LT	9088	3577	8656	3407	7790	3066
842	Beige Brown-VY LT	12067	4750	11492	4524	10343	4072
844	Beaver Brown-UL DK	2189	861	2084	820	1876	738
926	Gray Green-MD	139	54	132	51	119	46
927	Gray Green-LT	263	103	250	98	225	88
928	Gray Green-VY LT	2256	888	2148	845	1933	761
931	Antique Blue-MD	52	20	49	19	44	17
932	Antique Blue-LT	10	3	9	3	8	3
938	Coffee Brown-UL DK	542	213	516	203	465	183
945	Tawny	697	274	664	261	597	235

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948	Peach-VY LT	160	62	153	60	137	53
950	Desert Sand-LT	389	153	371	146	333	131
951	Tawny-LT	148	58	141	55	127	50
3021	Brown Gray-VY DK	708	278	674	265	607	238
3022	Brown Gray-MD	75	29	72	28	65	25
3023	Brown Gray-LT	3225	1269	3072	1209	2764	1088
3024	Brown Gray-VY LT	2363	930	2250	885	2025	797
3031	Mocha Brown-VY DK	3489	1373	3323	1308	2990	1177
3032	Mocha Brown-MD	4086	1608	3891	1531	3502	1378
3041	Antique Violet-MD	247	97	235	92	212	83
3042	Antique Violet-LT	346	136	329	129	296	116
3064	Desert Sand	2960	1165	2819	1109	2537	998
3072	Beaver Gray-VY LT	2977	1172	2835	1116	2552	1004
3371	Black Brown	2300	905	2191	862	1972	776
3721	Shell Pink-DK	42	16	40	15	36	14
3722	Shell Pink-MD	7	2	7	2	6	2
3726	Antique Mauve-DK	272	107	259	101	233	91
3740	Antique Violet-DK	180	70	171	67	154	60
3743	Antique Violet-VY LT	1551	610	1477	581	1329	523
3747	Blue Violet-VY LT	22	8	20	7	18	7
3752	Antique Blue-VY LT	233	91	222	87	200	78
3753	Antique Blue-UL VY LT	369	145	351	138	316	124
3755	Baby Blue	7	2	6	2	6	2
3756	Baby Blue-UL VY LT	1977	778	1883	741	1695	667
3768	Gray Green-DK	50	19	48	18	43	16
3770	Tawny-VY LT	66	25	63	24	56	22
3772	Desert Sand-VY DK	2006	789	1910	751	1719	676
3774	Desert Sand-VY LT	424	166	403	158	363	142
3781	Mocha Brown-DK	110	43	105	41	94	37
3782	Mocha Brown-LT	1519	598	1446	569	1302	512
3787	Brown Gray-DK	4853	1910	4622	1819	4160	1637
3790	Beige Gray-UL DK	1111	437	1058	416	952	374
3799	Pewter Gray-VY DK	1429	562	1361	535	1225	482
3823	Yellow-UL Pale	138	54	132	51	118	46
3825	Pumpkin-Pale	10	3	10	3	9	3
3834	Grape-DK	93	36	88	34	80	31
3836	Grape-LT	34	13	33	12	29	11
3841	Baby Blue-Pale	182	71	173	68	156	61
3856	Mahogany-UL VY LT	344	135	327	128	295	116
3859	Rosewood-LT	226	88	216	85	194	76
3860	Cocoa	3114	1225	2966	1167	2669	1050
3861	Cocoa-LT	4145	1631	3948	1554	3553	1398
3862	Mocha Beige-DK	1367	538	1302	512	1172	461
3863	Mocha Beige-MD	2349	924	2237	880	2013	792
3864	Mocha Beige-LT	17634	6942	16795	6612	15115	5950
3865	Winter White	809	318	770	303	693	272
3866	Mocha Brown-UL VY LT	1828	719	1741	685	1567	616
Ecru	Ecru	178	70	170	66	153	60

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	1116	439	930	366	465	183
224	Shell Pink-VY LT	331	130	276	108	138	54
310	Black	2966	1166	2472	972	1236	486
316	Antique Mauve-MD	121	47	101	39	50	20



317	Pewter Gray	99	38	83	32	41	16
318	Steel Gray-LT	32	13	27	11	14	5
334	Baby Blue-MD	9	2	8	2	4	1
356	Terra Cotta-MD	50	20	42	17	21	8
407	Desert Sand-DK	9272	3649	7727	3041	3863	1520
413	Pewter Gray-DK	94	36	78	30	39	15
415	Pearl Gray	1022	401	852	335	426	167
420	Hazelnut Brown-DK	31	11	26	9	13	5
436	Tan	326	128	272	107	136	53
437	Tan-LT	59	22	50	18	25	9
451	Shell Gray-DK	4973	1957	4145	1631	2072	815
452	Shell Gray-MD	5107	2009	4256	1674	2128	837
453	Shell Gray-LT	9283	3654	7736	3045	3868	1523
500	Blue Green-VY DK	419	164	350	137	175	68
535	Ash Gray-VY LT	1069	419	891	350	446	175
543	Beige Brown-UL VY LT	2650	1042	2208	869	1104	434
553	Violet	205	79	171	66	86	33
610	Drab Brown-DK	58	22	48	18	24	9
613	Drab Brown-VY LT	639	250	533	209	266	104
640	Beige Gray-VY DK	6008	2365	5007	1971	2504	986
644	Beige Gray-MD	1933	760	1611	633	806	317
645	Beaver Gray-VY DK	1226	482	1022	402	511	201
646	Beaver Gray-DK	290	113	242	95	121	47
647	Beaver Gray-MD	1393	547	1161	456	581	228
648	Beaver Gray-LT	3857	1517	3215	1265	1607	632
712	Cream	2180	857	1817	714	908	357
738	Tan-VY LT	7547	2970	6290	2475	3145	1238
739	Tan-UL VY LT	2291	902	1910	752	955	376
746	Off White	103	40	86	33	43	17
747	Sky Blue-VY LT	335	131	279	110	140	55
754	Peach-LT	1161	455	968	380	484	190
758	Terra Cotta-VY LT	1197	470	998	392	499	196
762	Pearl Gray-VY LT	3937	1550	3281	1292	1640	646
778	Antique Mauve-VY LT	1712	673	1427	561	713	281
793	Cornflower Blue-MD	54	20	45	17	23	8
813	Blue-LT	9	2	8	2	4	1
822	Beige Gray-LT	2216	871	1847	726	923	363
838	Beige Brown-VY DK	520	203	434	170	217	85
839	Beige Brown-DK	4363	1717	3636	1431	1818	716
840	Beige Brown-MD	1935	761	1613	635	806	317
841	Beige Brown-LT	14022	5519	11685	4599	5843	2300
842	Beige Brown-VY LT	18617	7330	15515	6108	7757	3054
844	Beaver Brown-UL DK	3377	1328	2814	1107	1407	554
926	Gray Green-MD	214	83	179	69	89	35
927	Gray Green-LT	405	158	338	132	169	66
928	Gray Green-VY LT	3479	1370	2900	1142	1450	571
931	Antique Blue-MD	79	31	66	26	33	13
932	Antique Blue-LT	14	5	12	5	6	2
938	Coffee Brown-UL DK	837	329	698	275	349	137
945	Tawny	1075	423	896	353	448	176
948	Peach-VY LT	247	95	206	80	103	40
950	Desert Sand-LT	599	236	500	197	250	98
951	Tawny-LT	229	90	191	75	95	38
3021	Brown Gray-VY DK	1093	428	911	357	455	179
3022	Brown Gray-MD	117	45	98	38	49	19
3023	Brown Gray-LT	4975	1958	4146	1632	2073	816
3024	Brown Gray-VY LT	3645	1435	3038	1196	1519	598
3031	Mocha Brown-VY DK	5382	2119	4485	1766	2243	883
3032	Mocha Brown-MD	6304	2480	5253	2067	2627	1034

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3041	Antique Violet-MD	382	149	318	125	159	62
3042	Antique Violet-LT	533	209	444	174	222	87
3064	Desert Sand	4567	1796	3806	1497	1903	749
3072	Beaver Gray-VY LT	4594	1807	3828	1506	1914	753
3371	Black Brown	3550	1397	2958	1164	1479	582
3721	Shell Pink-DK	65	25	54	21	27	11
3722	Shell Pink-MD	11	4	9	3	5	2
3726	Antique Mauve-DK	419	164	350	137	175	68
3740	Antique Violet-DK	277	108	231	90	116	45
3743	Antique Violet-VY LT	2392	941	1994	785	997	392
3747	Blue Violet-VY LT	32	13	27	11	14	5
3752	Antique Blue-VY LT	360	140	300	117	150	59
3753	Antique Blue-UL VY LT	569	223	474	186	237	93
3755	Baby Blue	11	4	9	3	5	2
3756	Baby Blue-UL VY LT	3051	1201	2543	1001	1271	500
3768	Gray Green-DK	77	29	65	24	32	12
3770	Tawny-VY LT	101	40	84	33	42	17
3772	Desert Sand-VY DK	3094	1217	2579	1014	1289	507
3774	Desert Sand-VY LT	653	256	545	213	272	107
3781	Mocha Brown-DK	169	67	141	56	71	28
3782	Mocha Brown-LT	2344	922	1953	768	977	384
3787	Brown Gray-DK	7488	2947	6240	2456	3120	1228
3790	Beige Gray-UL DK	1714	673	1428	561	714	281
3799	Pewter Gray-VY DK	2205	868	1838	723	919	362
3823	Yellow-UL Pale	212	83	177	69	89	35
3825	Pumpkin-Pale	16	5	14	5	7	2
3834	Grape-DK	144	56	120	47	60	23
3836	Grape-LT	52	20	44	17	22	8
3841	Baby Blue-Pale	281	110	234	92	117	46
3856	Mahogany-UL VY LT	531	209	443	174	221	87
3859	Rosewood-LT	349	137	291	114	146	57
3860	Cocoa	4804	1890	4004	1575	2002	788
3861	Cocoa-LT	6395	2516	5330	2097	2665	1049
3862	Mocha Beige-DK	2110	830	1758	692	879	346
3863	Mocha Beige-MD	3623	1426	3020	1188	1510	594
3864	Mocha Beige-LT	27207	10710	22673	8925	11336	4463
3865	Winter White	1247	490	1040	408	520	204
3866	Mocha Brown-UL VY LT	2821	1109	2351	924	1175	462
Ecru	Ecru	275	108	230	90	115	45

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	446	176	429	169	413	163
224	Shell Pink-VY LT	132	52	127	50	123	48
310	Black	1187	467	1141	449	1099	432
316	Antique Mauve-MD	48	19	46	18	45	17
317	Pewter Gray	40	15	38	15	37	14
318	Steel Gray-LT	13	5	12	5	12	5
334	Baby Blue-MD	4	1	3	1	3	1
356	Terra Cotta-MD	20	8	19	8	19	7
407	Desert Sand-DK	3709	1459	3566	1403	3434	1351
413	Pewter Gray-DK	37	14	36	14	35	13
415	Pearl Gray	409	161	393	154	379	149
420	Hazelnut Brown-DK	12	4	12	4	11	4
436	Tan	130	51	125	49	121	47

437	Tan-LT	24	9	23	8	22	8
451	Shell Gray-DK	1989	783	1913	753	1842	725
452	Shell Gray-MD	2043	804	1964	773	1891	744
453	Shell Gray-LT	3713	1462	3570	1405	3438	1353
500	Blue Green-VY DK	168	66	161	63	155	61
535	Ash Gray-VY LT	428	168	411	161	396	155
543	Beige Brown-UL VY LT	1060	417	1019	401	981	386
553	Violet	82	32	79	30	76	29
610	Drab Brown-DK	23	9	22	8	21	8
613	Drab Brown-VY LT	256	100	246	96	237	93
640	Beige Gray-VY DK	2403	946	2311	910	2225	876
644	Beige Gray-MD	773	304	744	292	716	281
645	Beaver Gray-VY DK	490	193	471	186	454	179
646	Beaver Gray-DK	116	45	111	44	107	42
647	Beaver Gray-MD	557	219	536	210	516	203
648	Beaver Gray-LT	1543	607	1484	584	1429	562
712	Cream	872	343	838	330	807	317
738	Tan-VY LT	3019	1188	2903	1142	2795	1100
739	Tan-UL VY LT	917	361	881	347	849	334
746	Off White	41	16	39	15	38	15
747	Sky Blue-VY LT	134	53	129	51	124	49
754	Peach-LT	464	182	447	175	430	169
758	Terra Cotta-VY LT	479	188	460	181	443	174
762	Pearl Gray-VY LT	1575	620	1514	596	1458	574
778	Antique Mauve-VY LT	685	269	658	259	634	249
793	Cornflower Blue-MD	22	8	21	8	20	7
813	Blue-LT	4	1	3	1	3	1
822	Beige Gray-LT	886	348	852	335	821	323
838	Beige Brown-VY DK	208	81	200	78	193	75
839	Beige Brown-DK	1745	687	1678	660	1616	636
840	Beige Brown-MD	774	305	744	293	717	282
841	Beige Brown-LT	5609	2208	5393	2123	5193	2044
842	Beige Brown-VY LT	7447	2932	7161	2819	6895	2715
844	Beaver Brown-UL DK	1351	531	1299	511	1251	492
926	Gray Green-MD	86	33	82	32	79	31
927	Gray Green-LT	162	63	156	61	150	59
928	Gray Green-VY LT	1392	548	1338	527	1289	507
931	Antique Blue-MD	32	12	30	12	29	11
932	Antique Blue-LT	6	2	6	2	5	2
938	Coffee Brown-UL DK	335	132	322	127	310	122
945	Tawny	430	169	413	163	398	157
948	Peach-VY LT	99	38	95	37	91	35
950	Desert Sand-LT	240	94	231	91	222	87
951	Tawny-LT	91	36	88	35	85	33
3021	Brown Gray-VY DK	437	171	420	165	405	159
3022	Brown Gray-MD	47	18	45	17	43	17
3023	Brown Gray-LT	1990	783	1914	753	1843	725
3024	Brown Gray-VY LT	1458	574	1402	552	1350	531
3031	Mocha Brown-VY DK	2153	847	2070	815	1993	785
3032	Mocha Brown-MD	2521	992	2424	954	2335	919
3041	Antique Violet-MD	153	60	147	57	141	55
3042	Antique Violet-LT	213	84	205	80	197	77
3064	Desert Sand	1827	719	1756	691	1691	665
3072	Beaver Gray-VY LT	1837	723	1767	695	1701	669
3371	Black Brown	1420	559	1365	537	1315	517
3721	Shell Pink-DK	26	10	25	10	24	9
3722	Shell Pink-MD	4	1	4	1	4	1
3726	Antique Mauve-DK	168	66	161	63	155	61
3740	Antique Violet-DK	111	43	107	42	103	40

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3743	Antique Violet-VY LT	957	377	920	362	886	349
3747	Blue Violet-VY LT	13	5	12	5	12	5
3752	Antique Blue-VY LT	144	56	138	54	133	52
3753	Antique Blue-UL VY LT	228	89	219	86	211	83
3755	Baby Blue	4	1	4	1	4	1
3756	Baby Blue-UL VY LT	1220	480	1173	462	1130	445
3768	Gray Green-DK	31	12	30	11	29	11
3770	Tawny-VY LT	40	16	39	15	37	15
3772	Desert Sand-VY DK	1238	487	1190	468	1146	451
3774	Desert Sand-VY LT	261	102	251	98	242	95
3781	Mocha Brown-DK	68	27	65	26	63	25
3782	Mocha Brown-LT	937	369	901	354	868	341
3787	Brown Gray-DK	2995	1179	2880	1133	2773	1091
3790	Beige Gray-UL DK	685	269	659	259	635	249
3799	Pewter Gray-VY DK	882	347	848	334	817	321
3823	Yellow-UL Pale	85	33	82	32	79	31
3825	Pumpkin-Pale	6	2	6	2	6	2
3834	Grape-DK	58	22	55	21	53	21
3836	Grape-LT	21	8	20	8	19	7
3841	Baby Blue-Pale	112	44	108	42	104	41
3856	Mahogany-UL VY LT	212	84	204	80	197	77
3859	Rosewood-LT	140	55	134	53	129	51
3860	Cocoa	1922	756	1848	727	1779	700
3861	Cocoa-LT	2558	1007	2460	968	2369	932
3862	Mocha Beige-DK	844	332	811	319	781	307
3863	Mocha Beige-MD	1449	570	1394	548	1342	528
3864	Mocha Beige-LT	10883	4284	10464	4119	10077	3967
3865	Winter White	499	196	480	188	462	181
3866	Mocha Brown-UL VY LT	1128	444	1085	426	1045	411
Ecru	Ecru	110	43	106	42	102	40

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	399	157	372	146	349	137
224	Shell Pink-VY LT	118	46	110	43	104	41
310	Black	1059	417	989	389	927	365
316	Antique Mauve-MD	43	17	40	16	38	15
317	Pewter Gray	35	14	33	13	31	12
318	Steel Gray-LT	12	5	11	4	10	4
334	Baby Blue-MD	3	1	3	1	3	1
356	Terra Cotta-MD	18	7	17	7	16	6
407	Desert Sand-DK	3311	1303	3091	1216	2897	1140
413	Pewter Gray-DK	33	13	31	12	29	11
415	Pearl Gray	365	143	341	134	320	125
420	Hazelnut Brown-DK	11	4	10	4	10	3
436	Tan	116	46	109	43	102	40
437	Tan-LT	21	8	20	7	19	7
451	Shell Gray-DK	1776	699	1658	652	1554	611
452	Shell Gray-MD	1824	717	1702	670	1596	628
453	Shell Gray-LT	3315	1305	3094	1218	2901	1142
500	Blue Green-VY DK	150	59	140	55	131	51
535	Ash Gray-VY LT	382	150	356	140	334	131
543	Beige Brown-UL VY LT	946	372	883	347	828	326
553	Violet	73	28	68	26	64	25
610	Drab Brown-DK	21	8	19	7	18	7
613	Drab Brown-VY LT	228	89	213	83	200	78
640	Beige Gray-VY DK	2146	845	2003	788	1878	739

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644	Beige Gray-MD	690	271	644	253	604	237
645	Beaver Gray-VY DK	438	172	409	161	383	151
646	Beaver Gray-DK	104	41	97	38	91	35
647	Beaver Gray-MD	498	195	464	182	435	171
648	Beaver Gray-LT	1378	542	1286	506	1205	474
712	Cream	779	306	727	286	681	268
738	Tan-VY LT	2696	1061	2516	990	2359	928
739	Tan-UL VY LT	818	322	764	301	716	282
746	Off White	37	14	34	13	32	12
747	Sky Blue-VY LT	120	47	112	44	105	41
754	Peach-LT	415	163	387	152	363	142
758	Terra Cotta-VY LT	428	168	399	157	374	147
762	Pearl Gray-VY LT	1406	554	1312	517	1230	484
778	Antique Mauve-VY LT	611	240	571	224	535	210
793	Cornflower Blue-MD	19	7	18	7	17	6
813	Blue-LT	3	1	3	1	3	1
822	Beige Gray-LT	791	311	739	290	692	272
838	Beige Brown-VY DK	186	73	173	68	163	64
839	Beige Brown-DK	1558	613	1454	572	1364	537
840	Beige Brown-MD	691	272	645	254	605	238
841	Beige Brown-LT	5008	1971	4674	1840	4382	1725
842	Beige Brown-VY LT	6649	2618	6206	2443	5818	2291
844	Beaver Brown-UL DK	1206	474	1126	443	1055	415
926	Gray Green-MD	77	30	71	28	67	26
927	Gray Green-LT	145	57	135	53	127	50
928	Gray Green-VY LT	1243	489	1160	457	1087	428
931	Antique Blue-MD	28	11	26	10	25	10
932	Antique Blue-LT	5	2	5	2	5	2
938	Coffee Brown-UL DK	299	118	279	110	262	103
945	Tawny	384	151	358	141	336	132
948	Peach-VY LT	88	34	82	32	77	30
950	Desert Sand-LT	214	84	200	79	187	74
951	Tawny-LT	82	32	76	30	71	28
3021	Brown Gray-VY DK	390	153	364	143	341	134
3022	Brown Gray-MD	42	16	39	15	37	14
3023	Brown Gray-LT	1777	699	1658	653	1555	612
3024	Brown Gray-VY LT	1302	512	1215	478	1139	448
3031	Mocha Brown-VY DK	1922	757	1794	706	1682	662
3032	Mocha Brown-MD	2251	886	2101	827	1970	775
3041	Antique Violet-MD	136	53	127	50	119	47
3042	Antique Violet-LT	190	75	178	70	167	65
3064	Desert Sand	1631	642	1522	599	1427	561
3072	Beaver Gray-VY LT	1641	645	1531	602	1436	565
3371	Black Brown	1268	499	1183	466	1109	437
3721	Shell Pink-DK	23	9	22	8	20	8
3722	Shell Pink-MD	4	1	4	1	3	1
3726	Antique Mauve-DK	150	59	140	55	131	51
3740	Antique Violet-DK	99	39	92	36	87	34
3743	Antique Violet-VY LT	854	336	797	314	748	294
3747	Blue Violet-VY LT	12	5	11	4	10	4
3752	Antique Blue-VY LT	129	50	120	47	113	44
3753	Antique Blue-UL VY LT	203	80	190	74	178	70
3755	Baby Blue	4	1	4	1	3	1
3756	Baby Blue-UL VY LT	1090	429	1017	400	953	375
3768	Gray Green-DK	28	10	26	10	24	9
3770	Tawny-VY LT	36	14	34	13	32	12
3772	Desert Sand-VY DK	1105	435	1031	406	967	380
3774	Desert Sand-VY LT	233	91	218	85	204	80
3781	Mocha Brown-DK	60	24	56	22	53	21

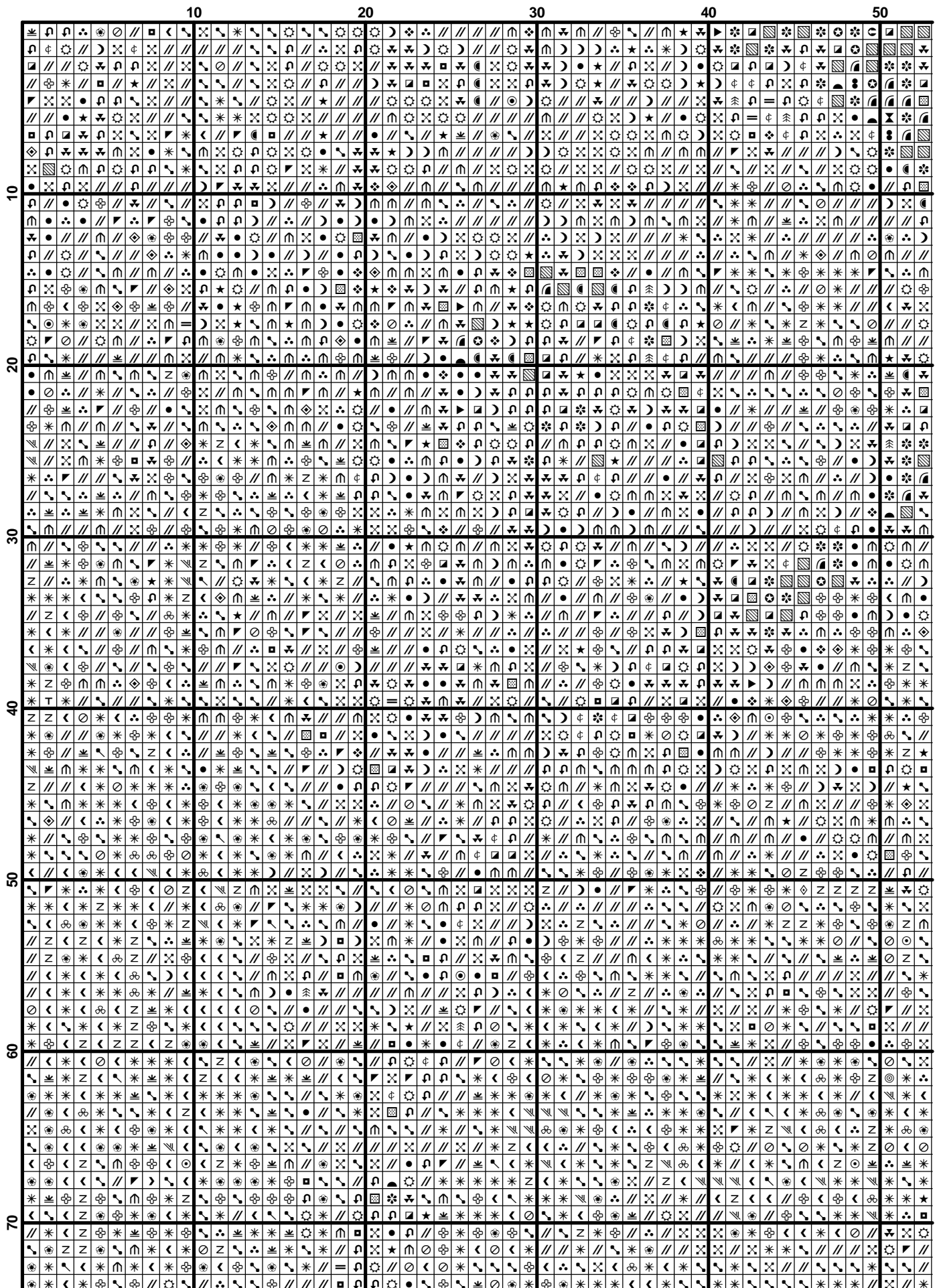
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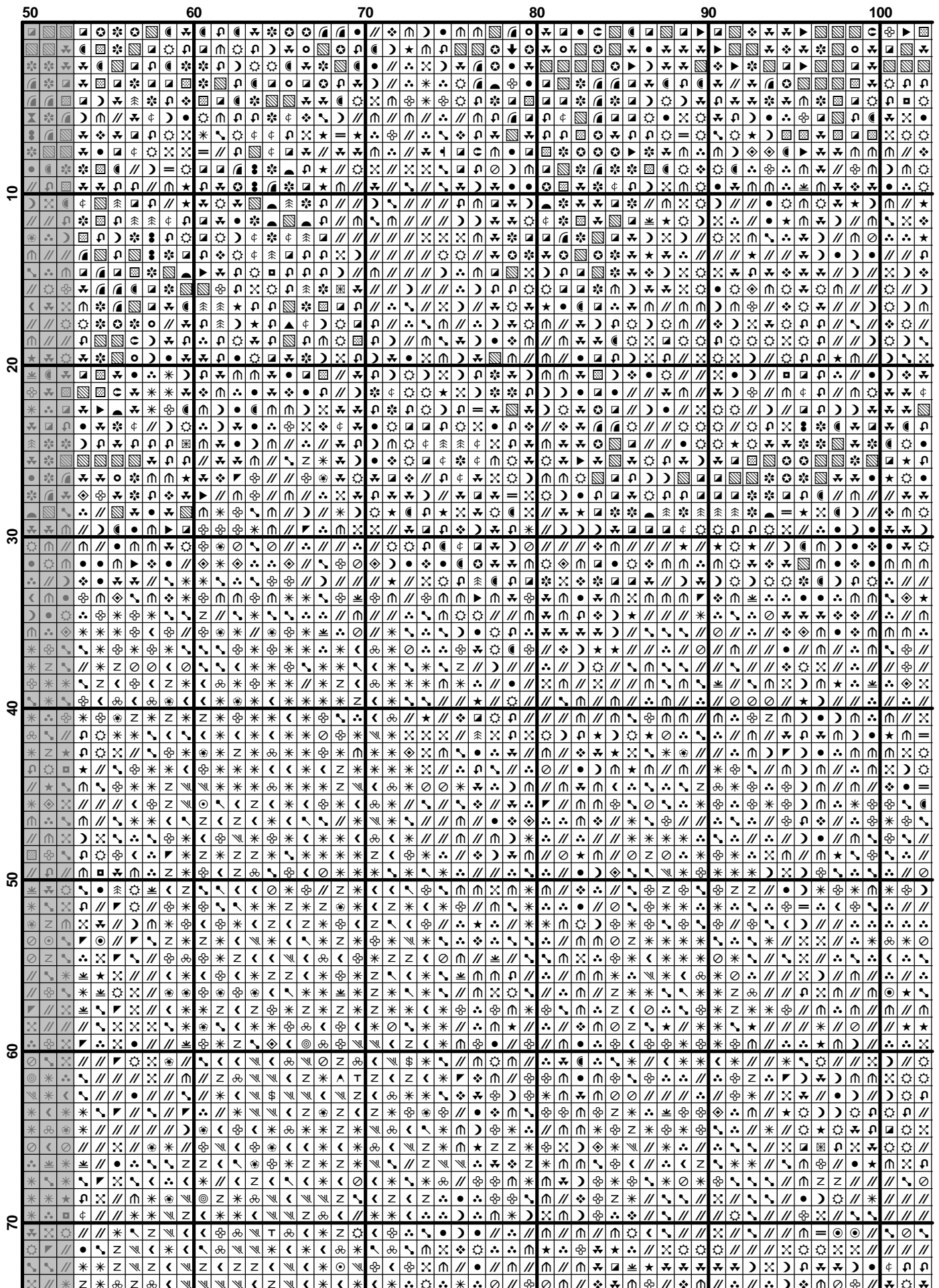
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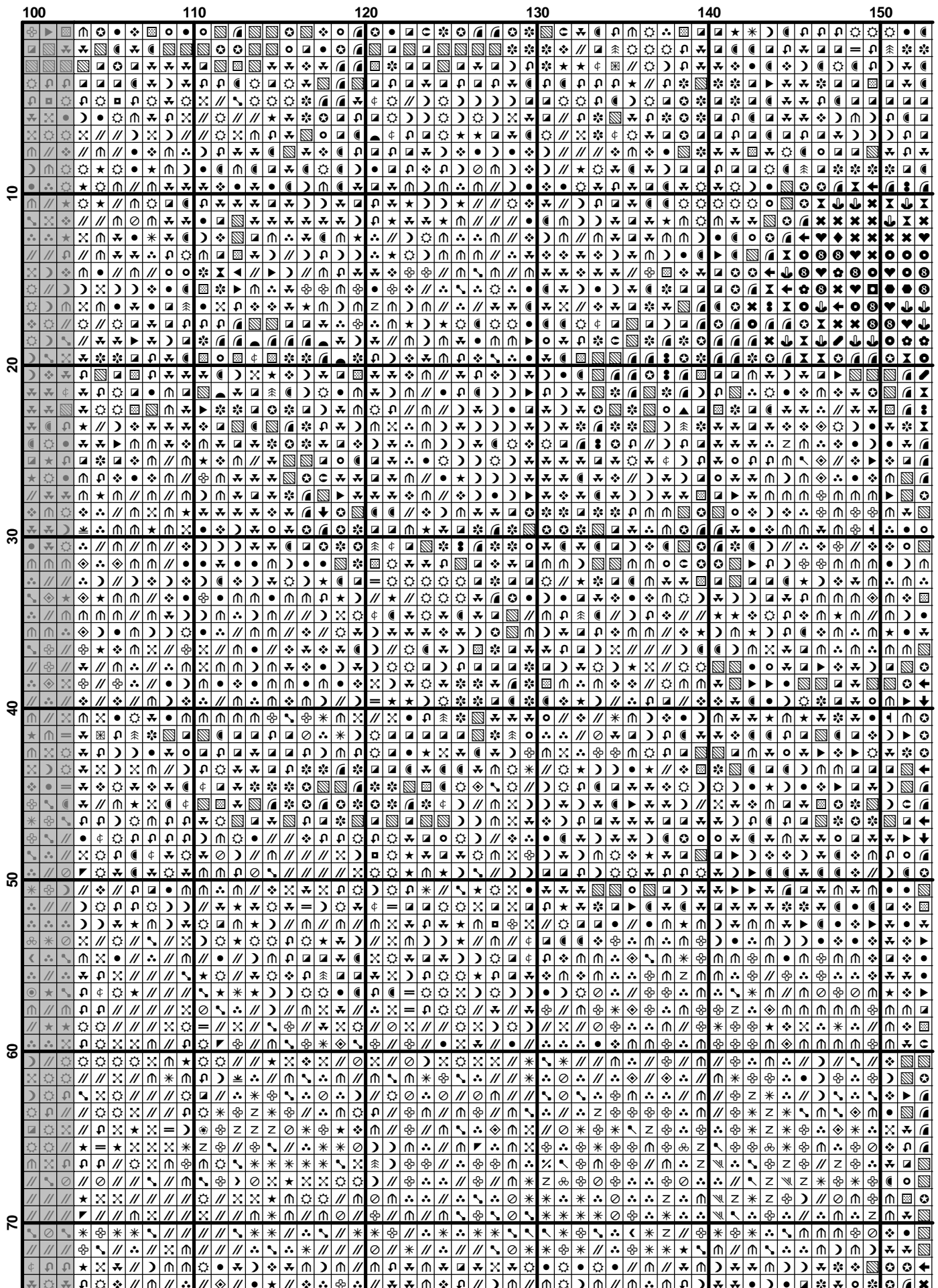
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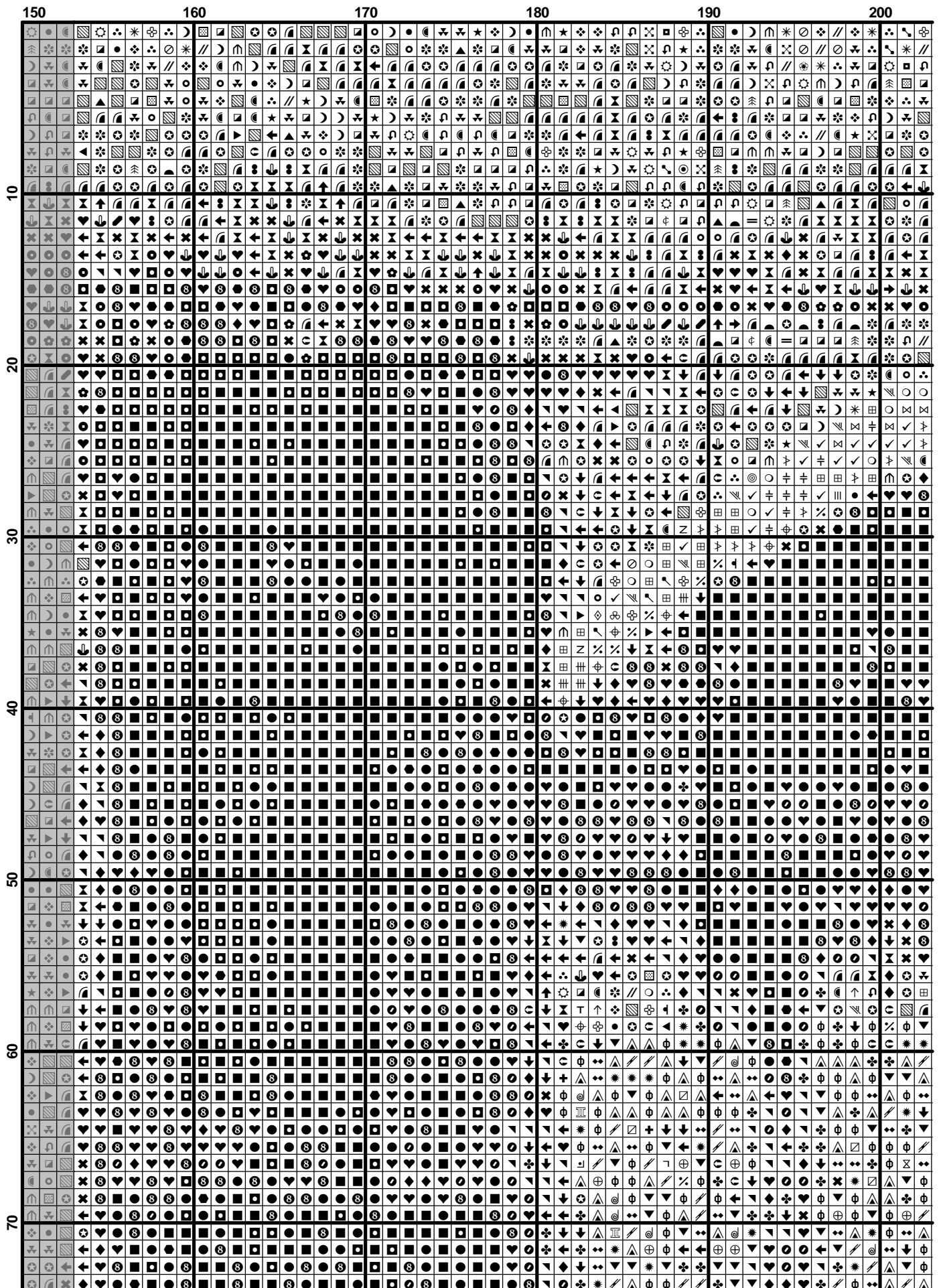
3782	Mocha Brown-LT	837	329	781	307	732	288
3787	Brown Gray-DK	2674	1052	2496	982	2340	921
3790	Beige Gray-UL DK	612	240	571	224	536	210
3799	Pewter Gray-VY DK	788	310	735	289	689	271
3823	Yellow-UL Pale	76	30	71	28	66	26
3825	Pumpkin-Pale	6	2	5	2	5	2
3834	Grape-DK	51	20	48	19	45	17
3836	Grape-LT	19	7	17	7	16	6
3841	Baby Blue-Pale	100	39	94	37	88	34
3856	Mahogany-UL VY LT	190	75	177	70	166	65
3859	Rosewood-LT	125	49	116	46	109	43
3860	Cocoa	1716	675	1601	630	1501	591
3861	Cocoa-LT	2284	899	2132	839	1999	786
3862	Mocha Beige-DK	753	296	703	277	659	259
3863	Mocha Beige-MD	1294	509	1208	475	1132	446
3864	Mocha Beige-LT	9717	3825	9069	3570	8502	3347
3865	Winter White	446	175	416	163	390	153
3866	Mocha Brown-UL VY LT	1007	396	940	370	881	347
Ecru	Ecru	98	39	92	36	86	34

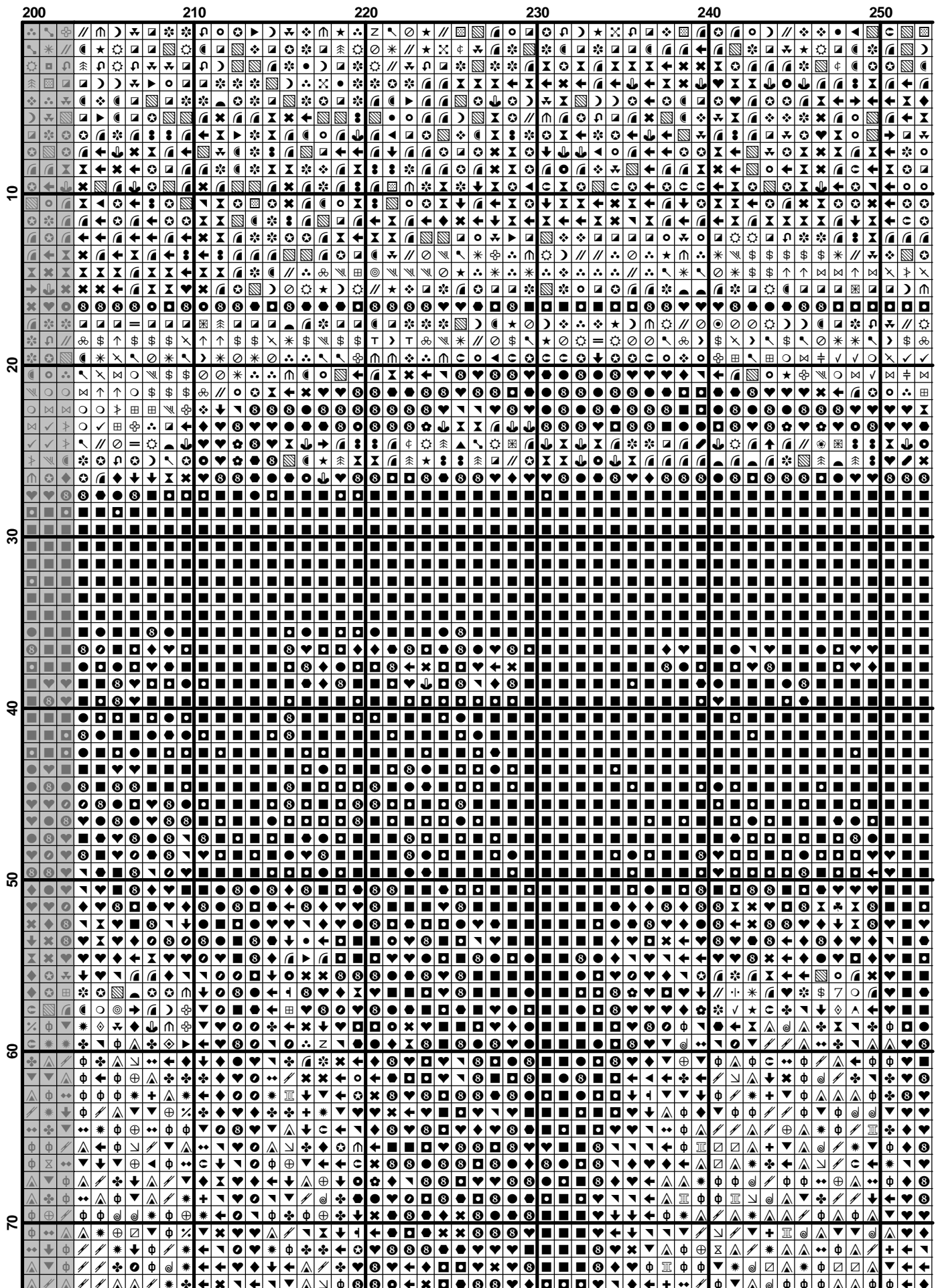


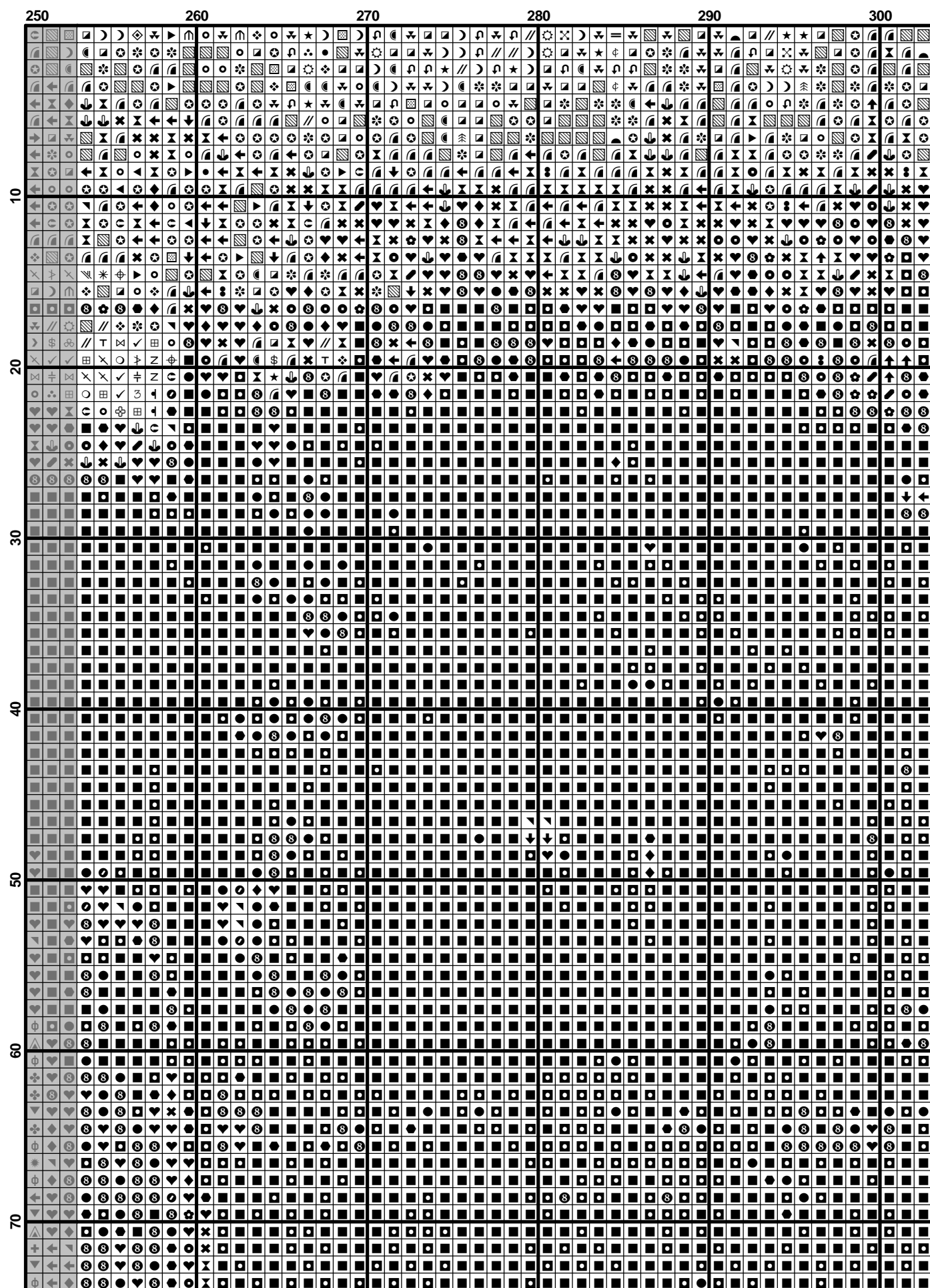




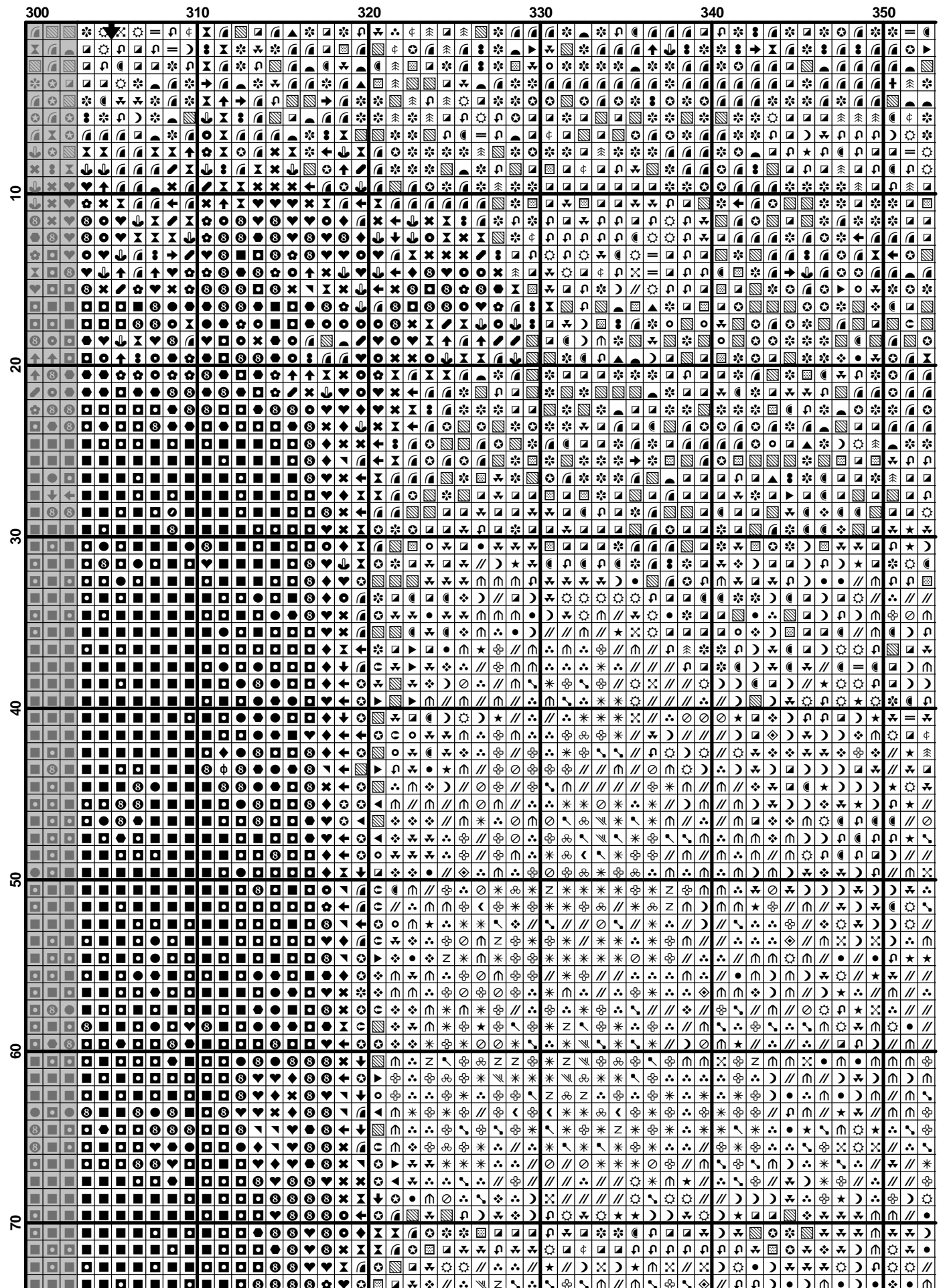


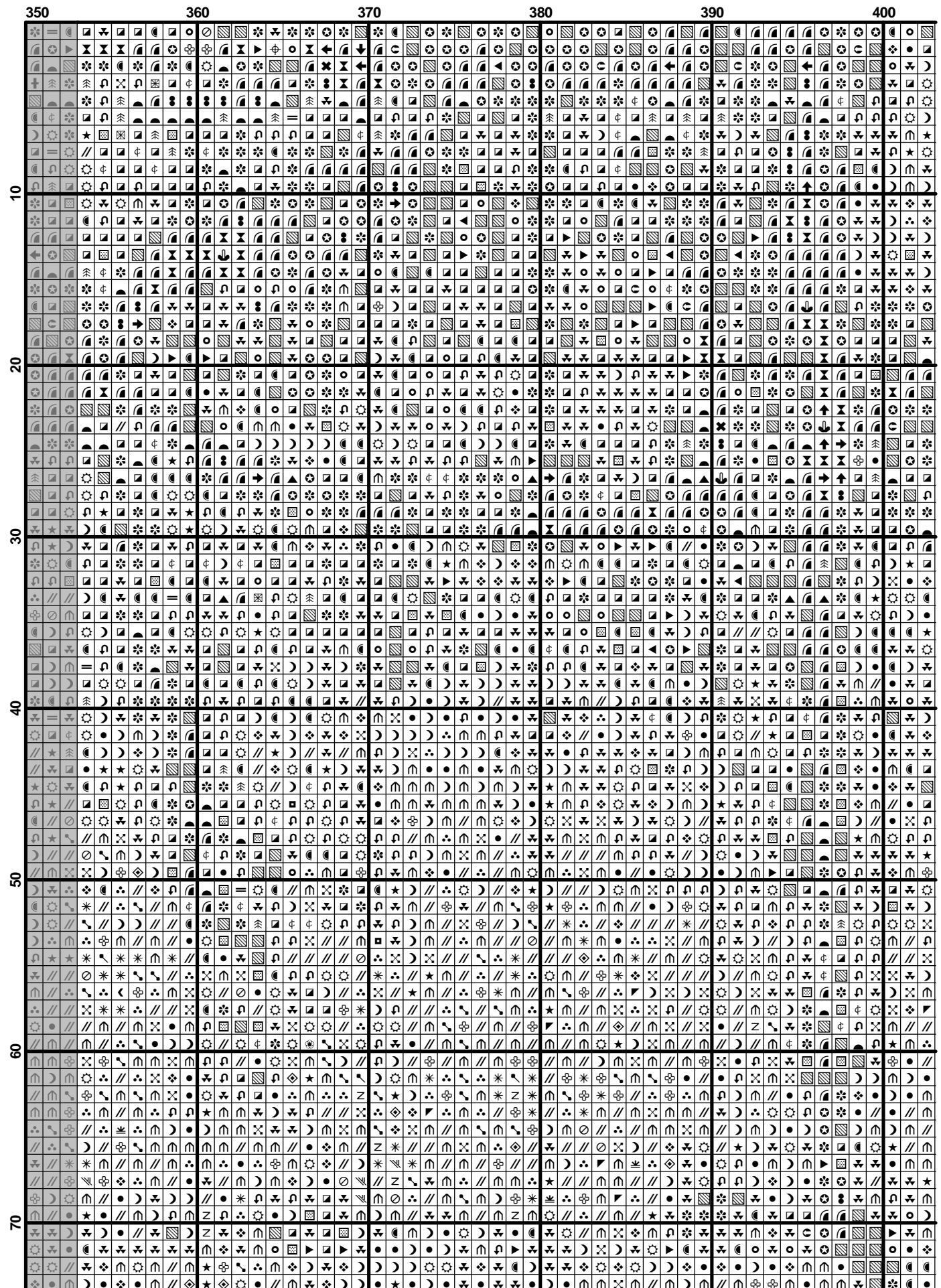


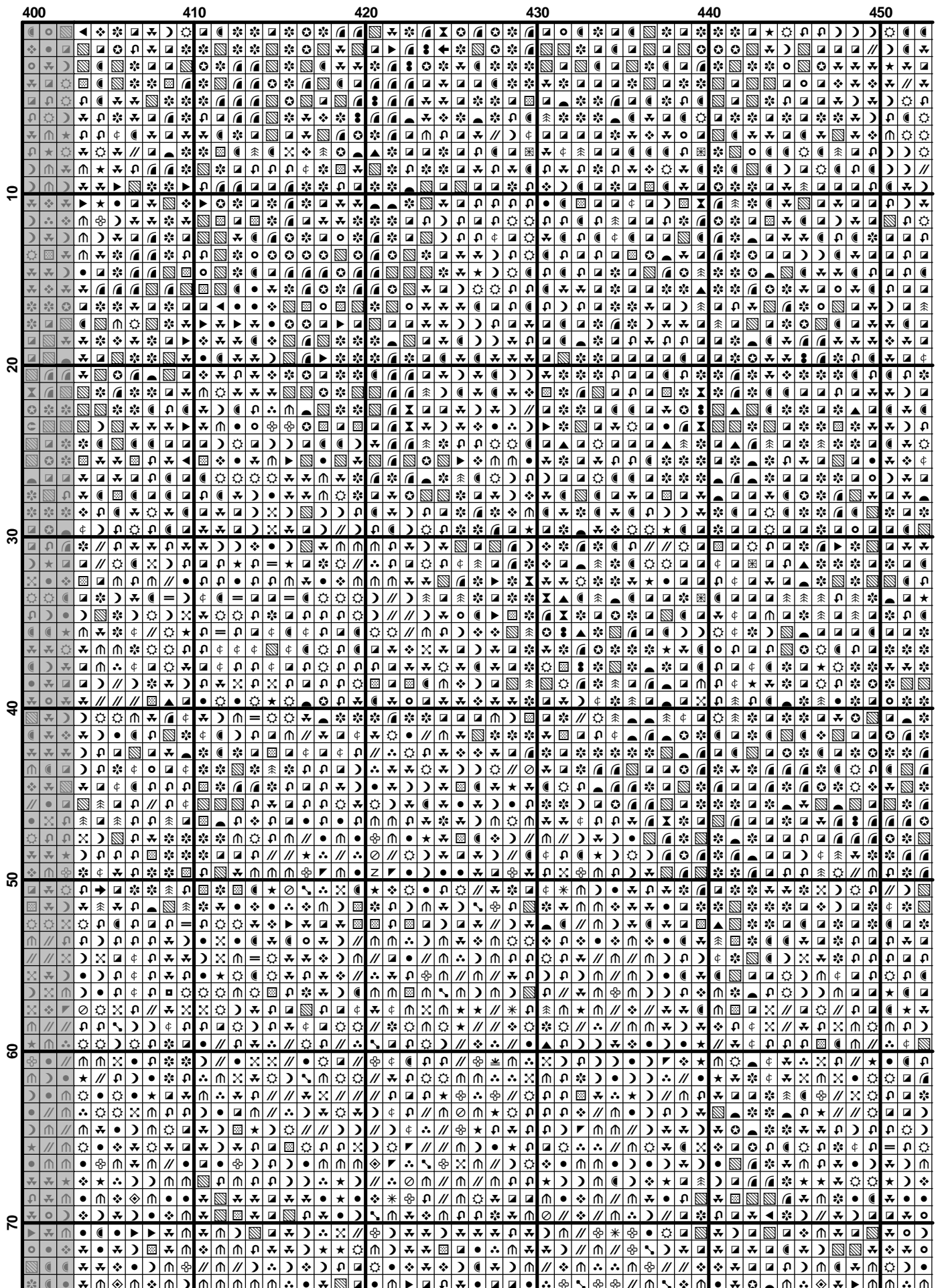


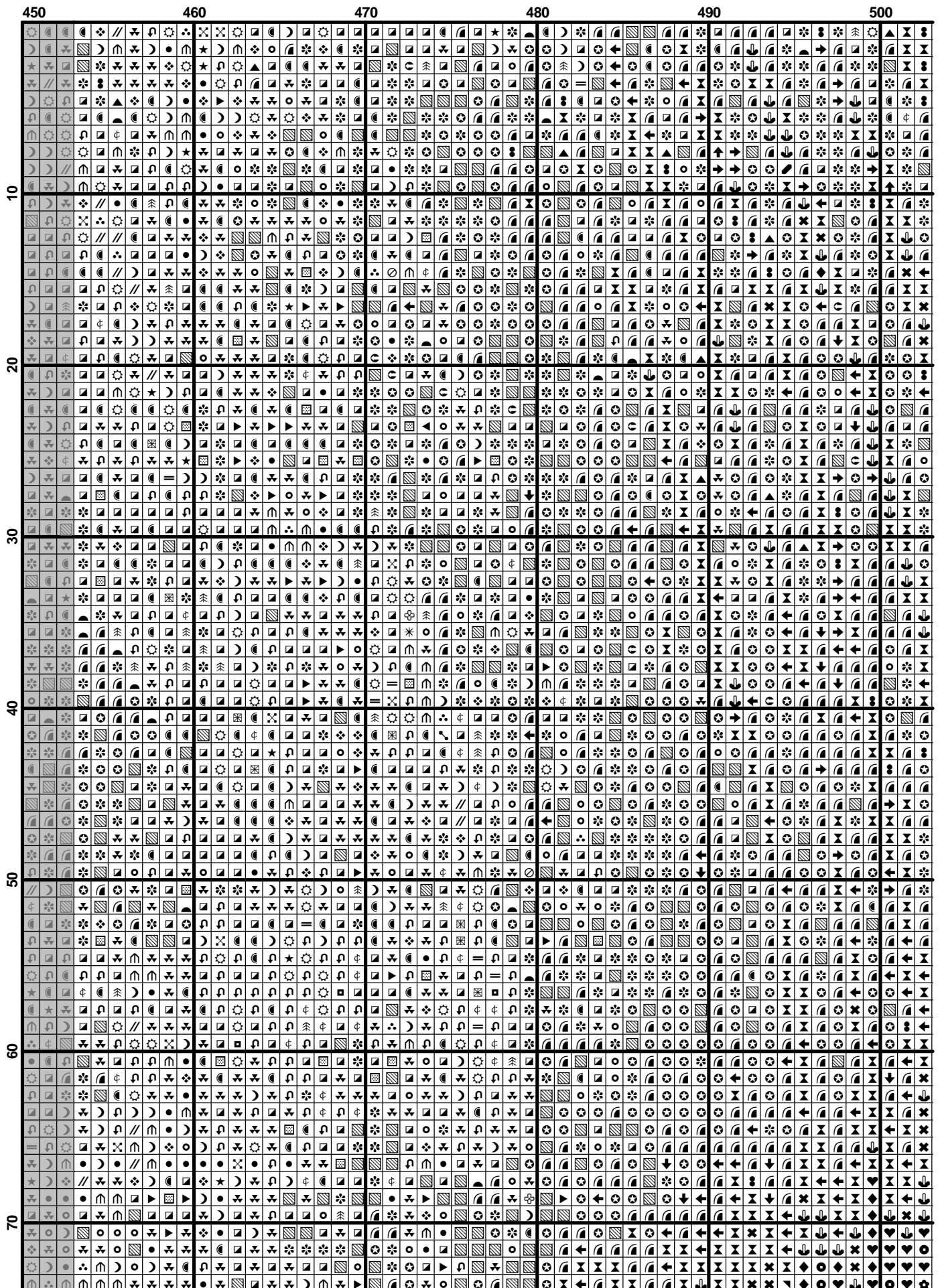


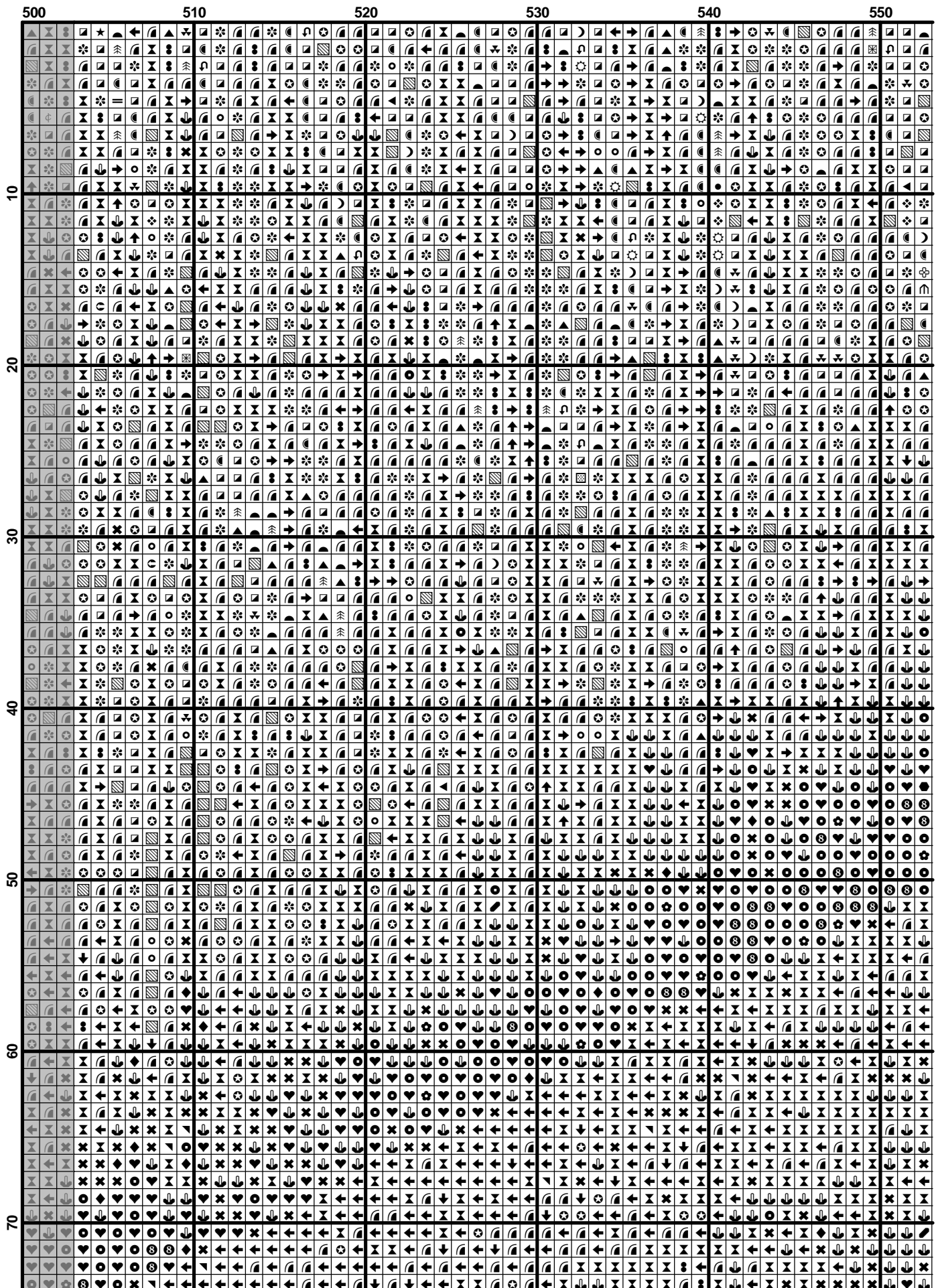


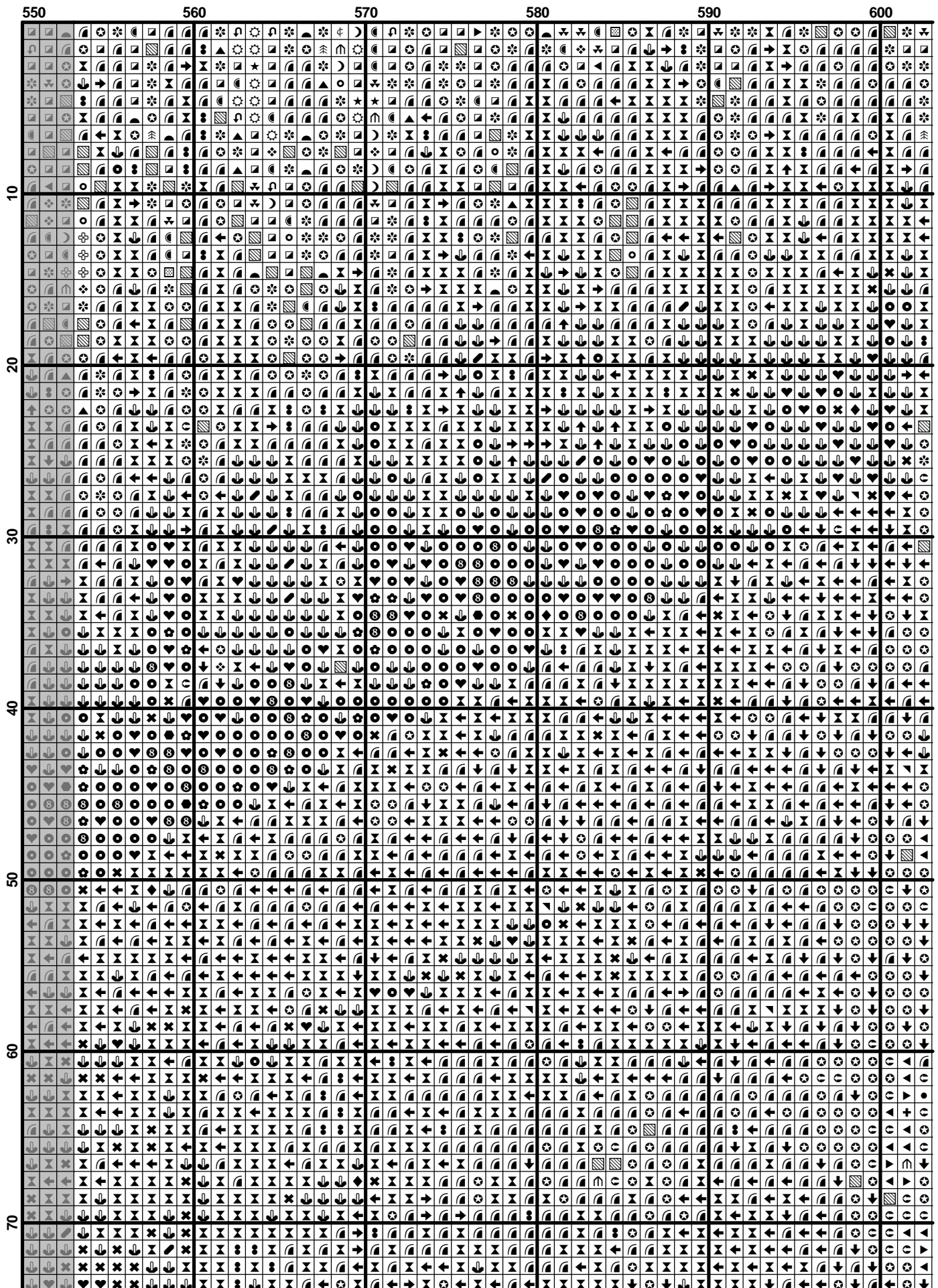




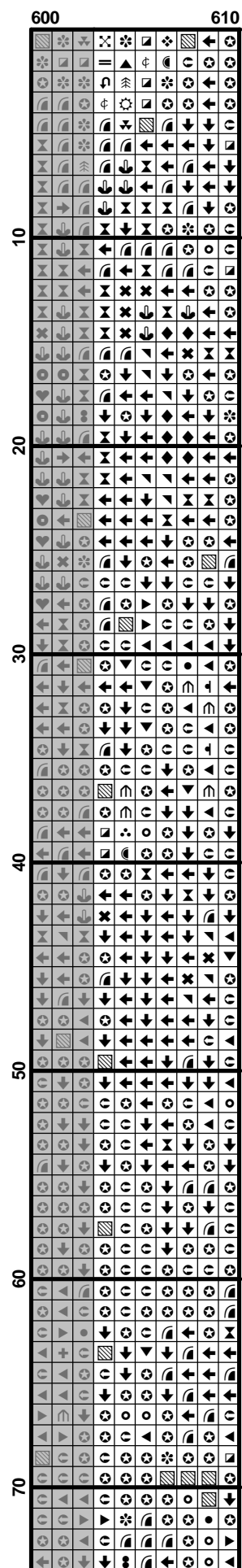


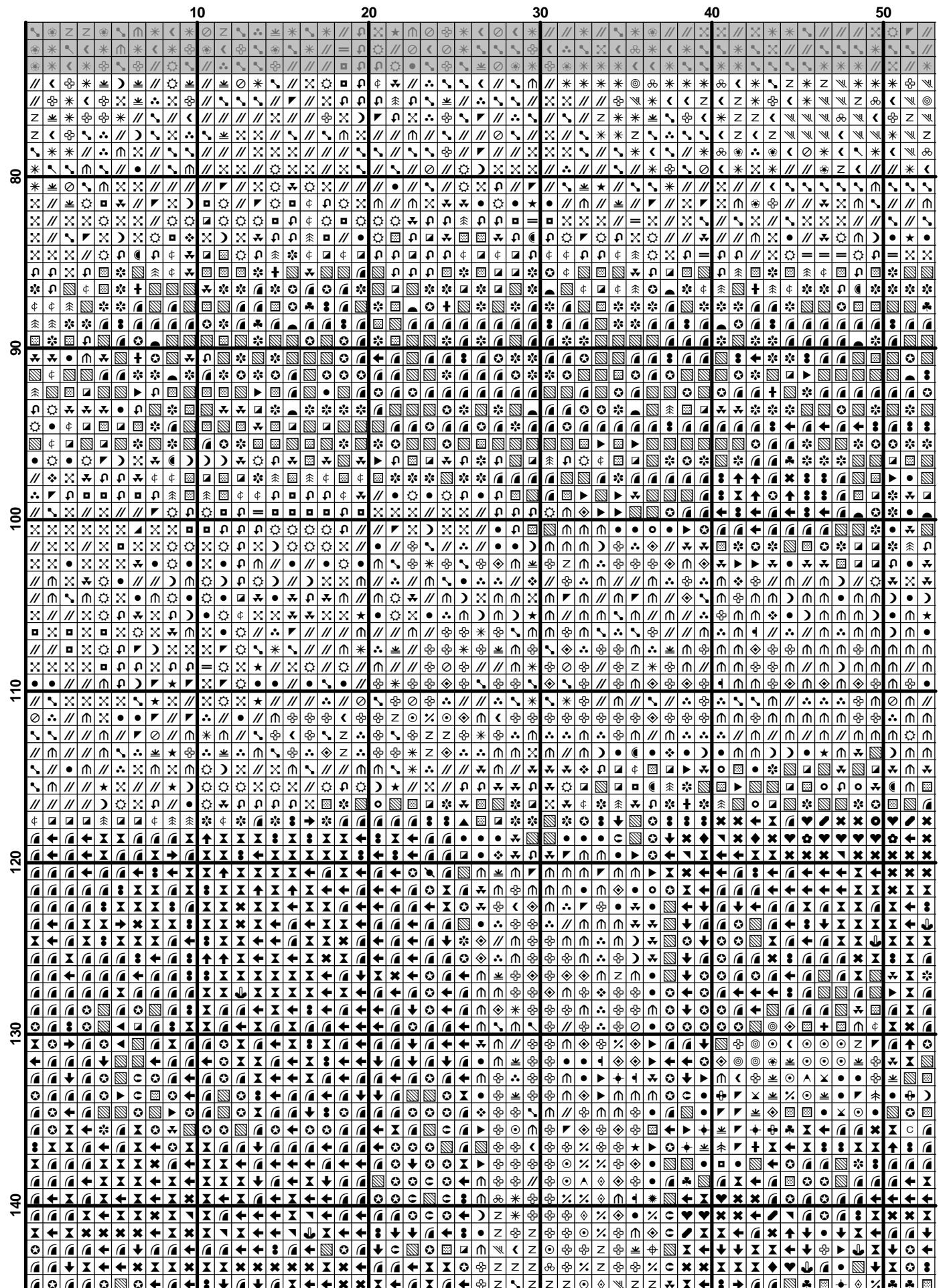


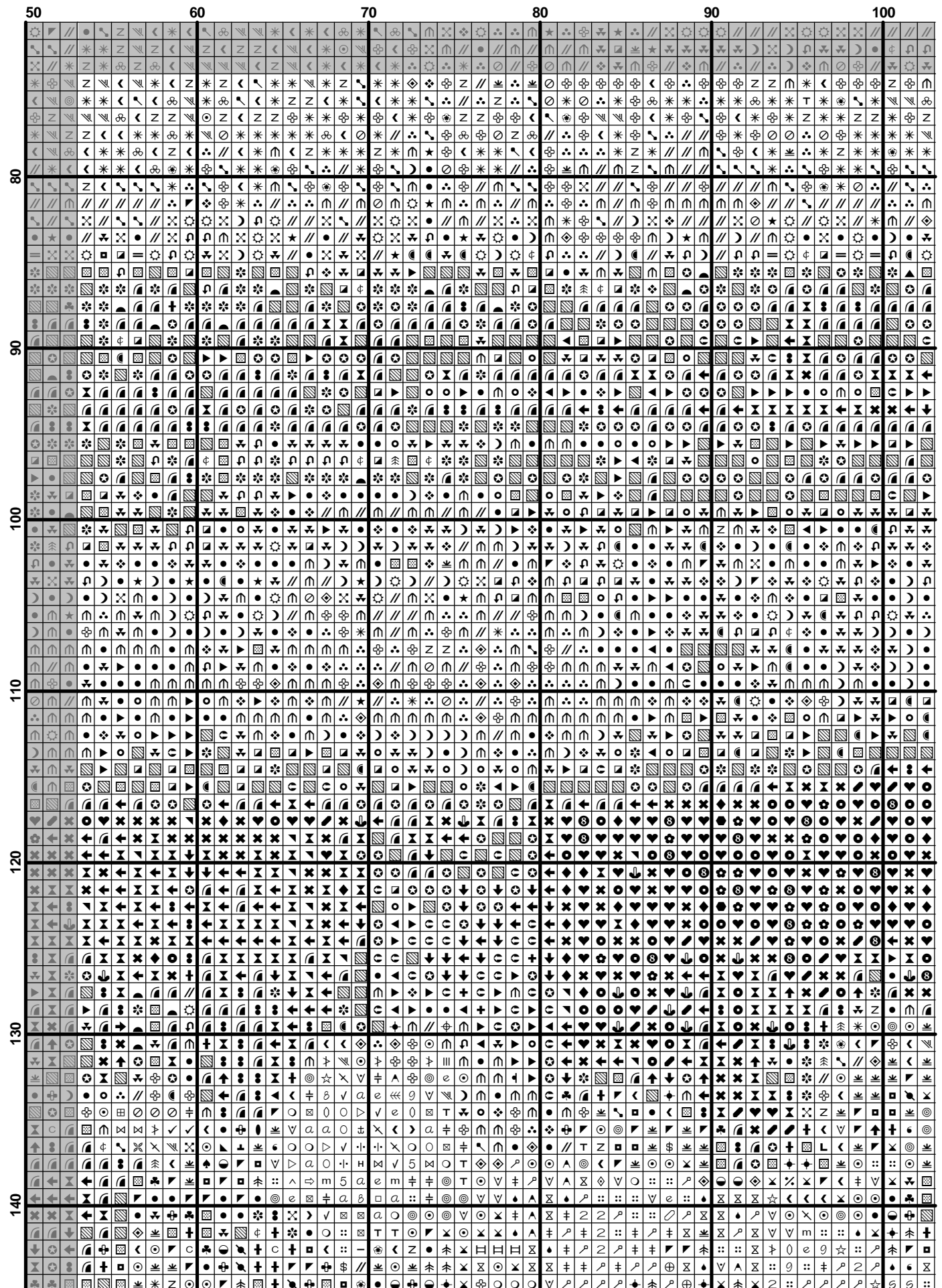


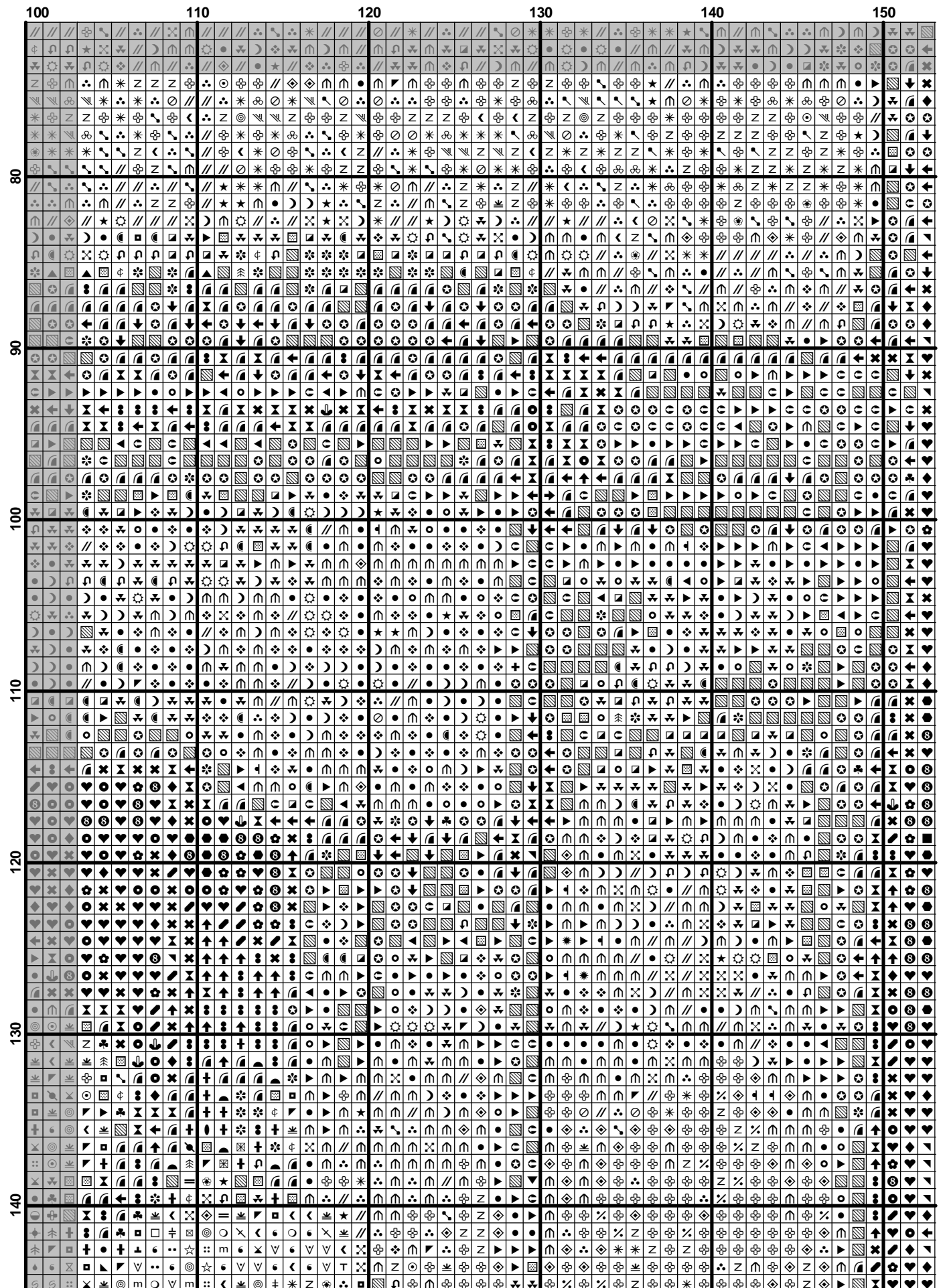




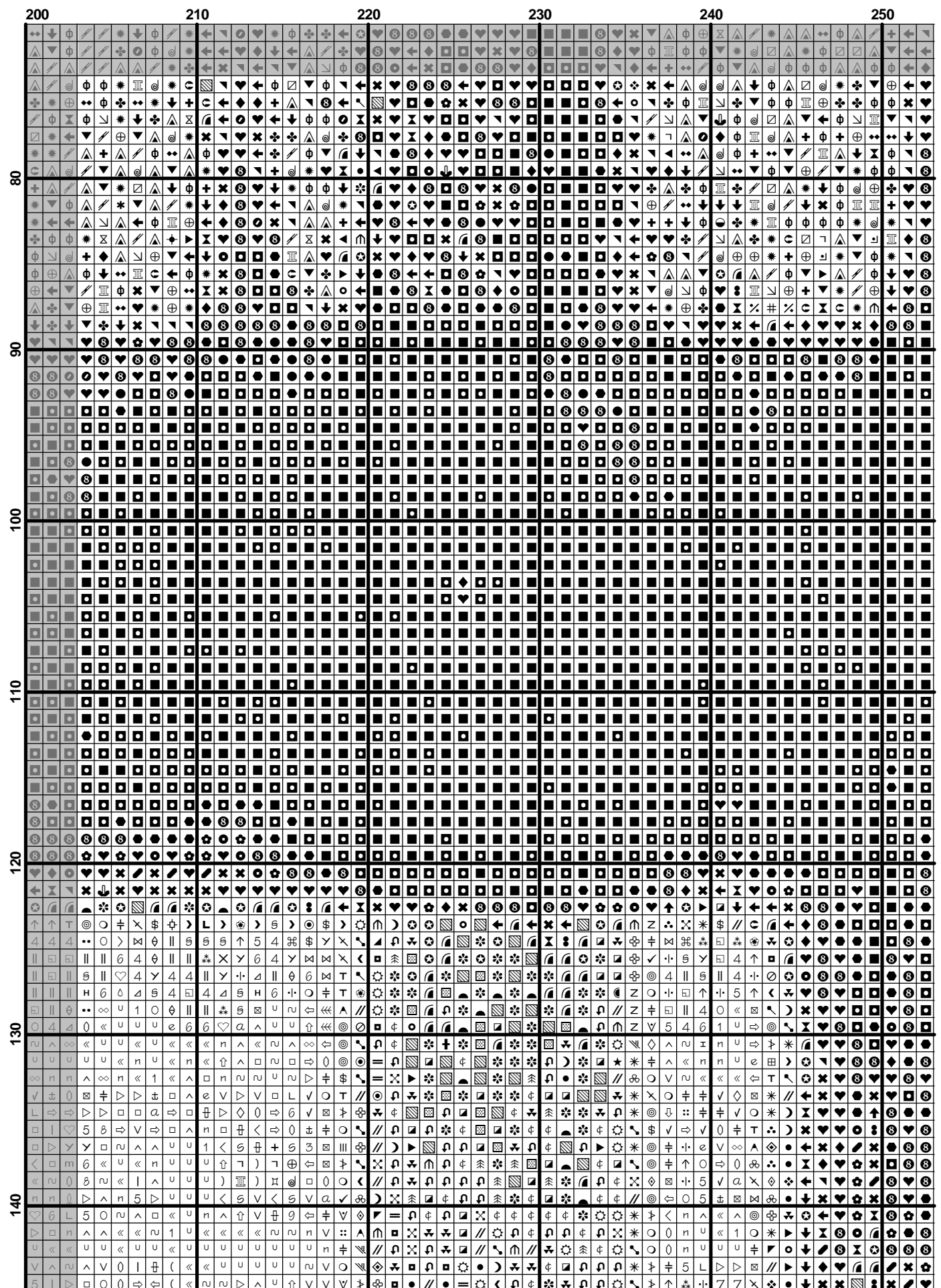




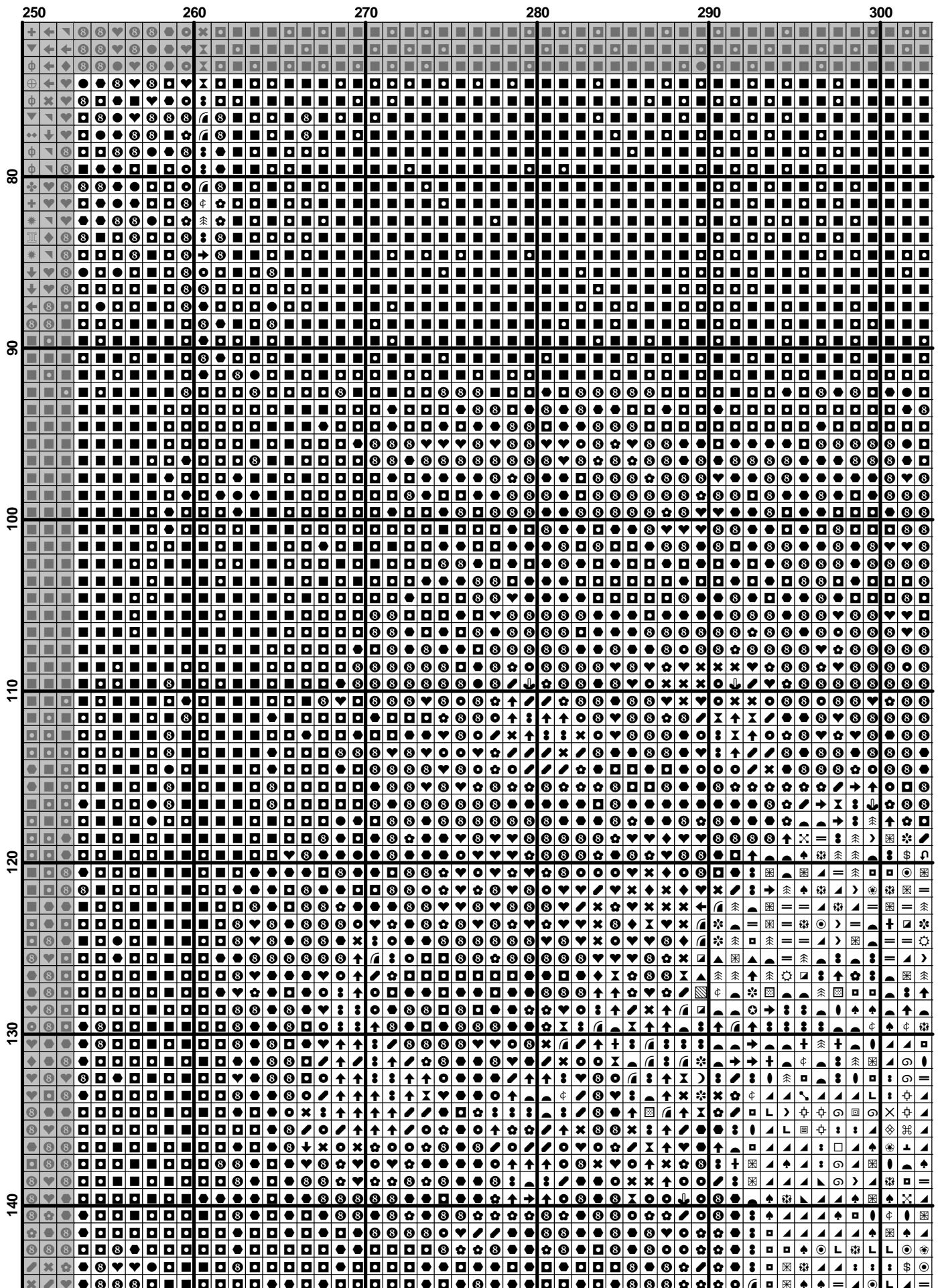


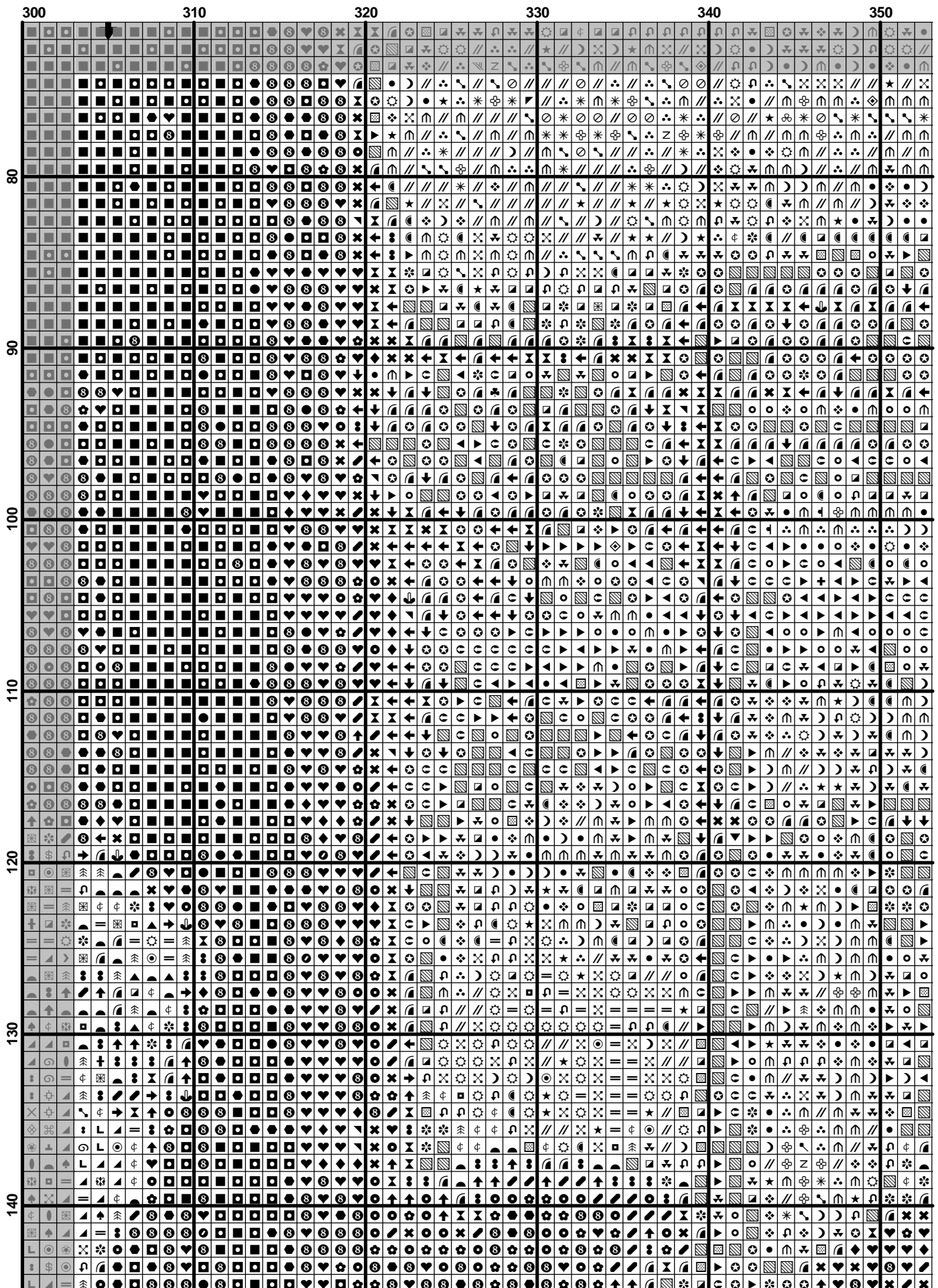


$$(30) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

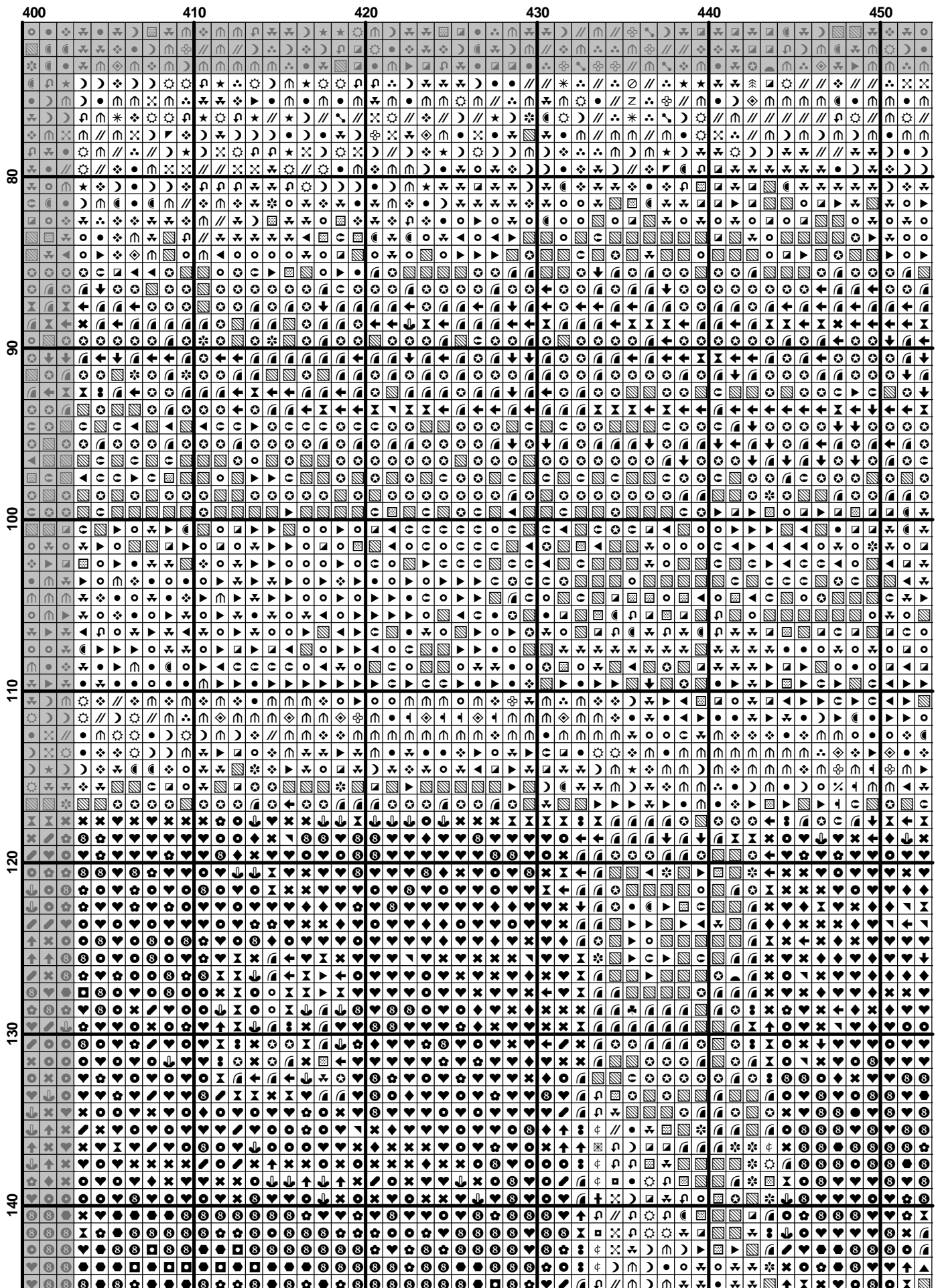


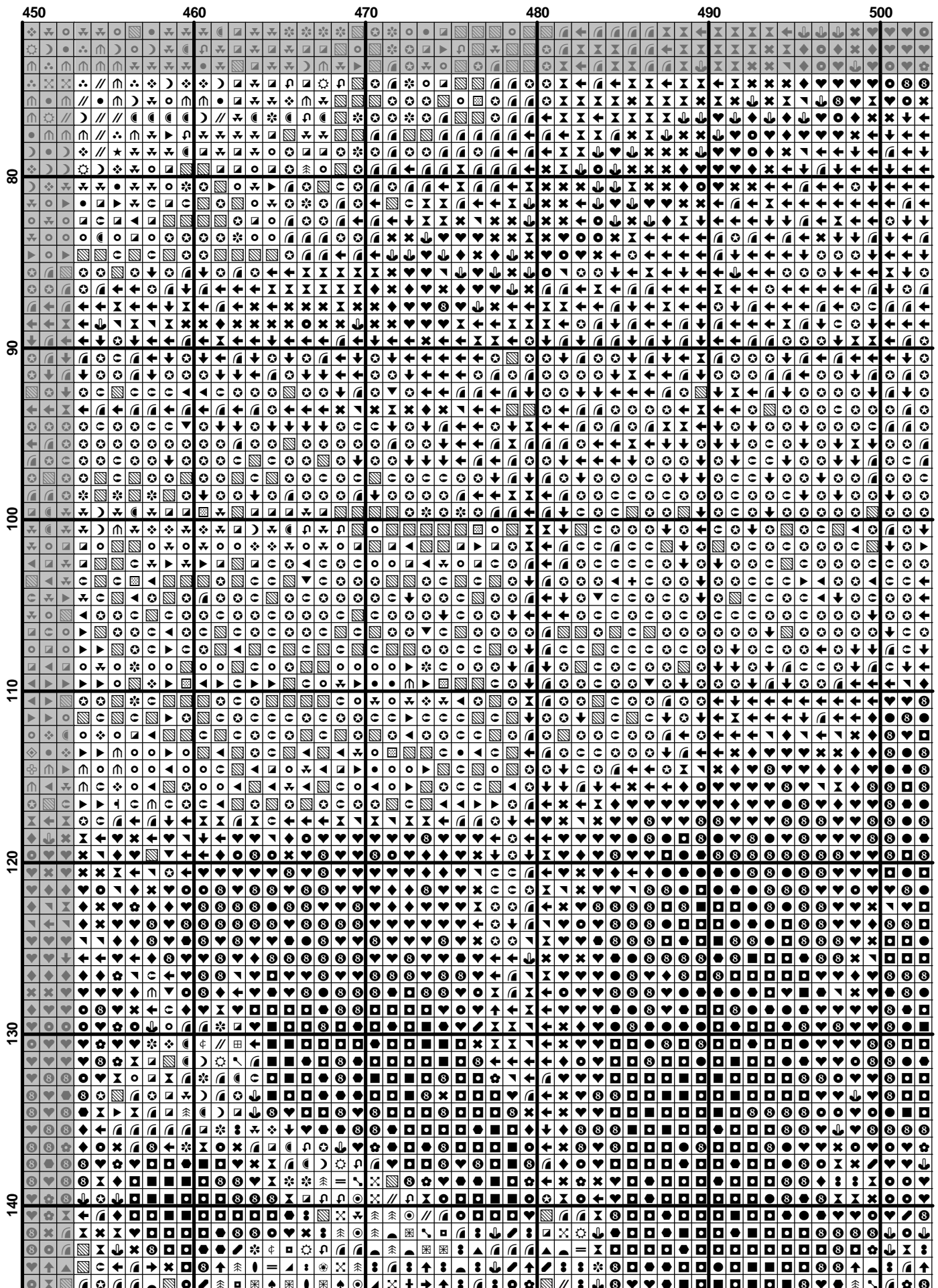


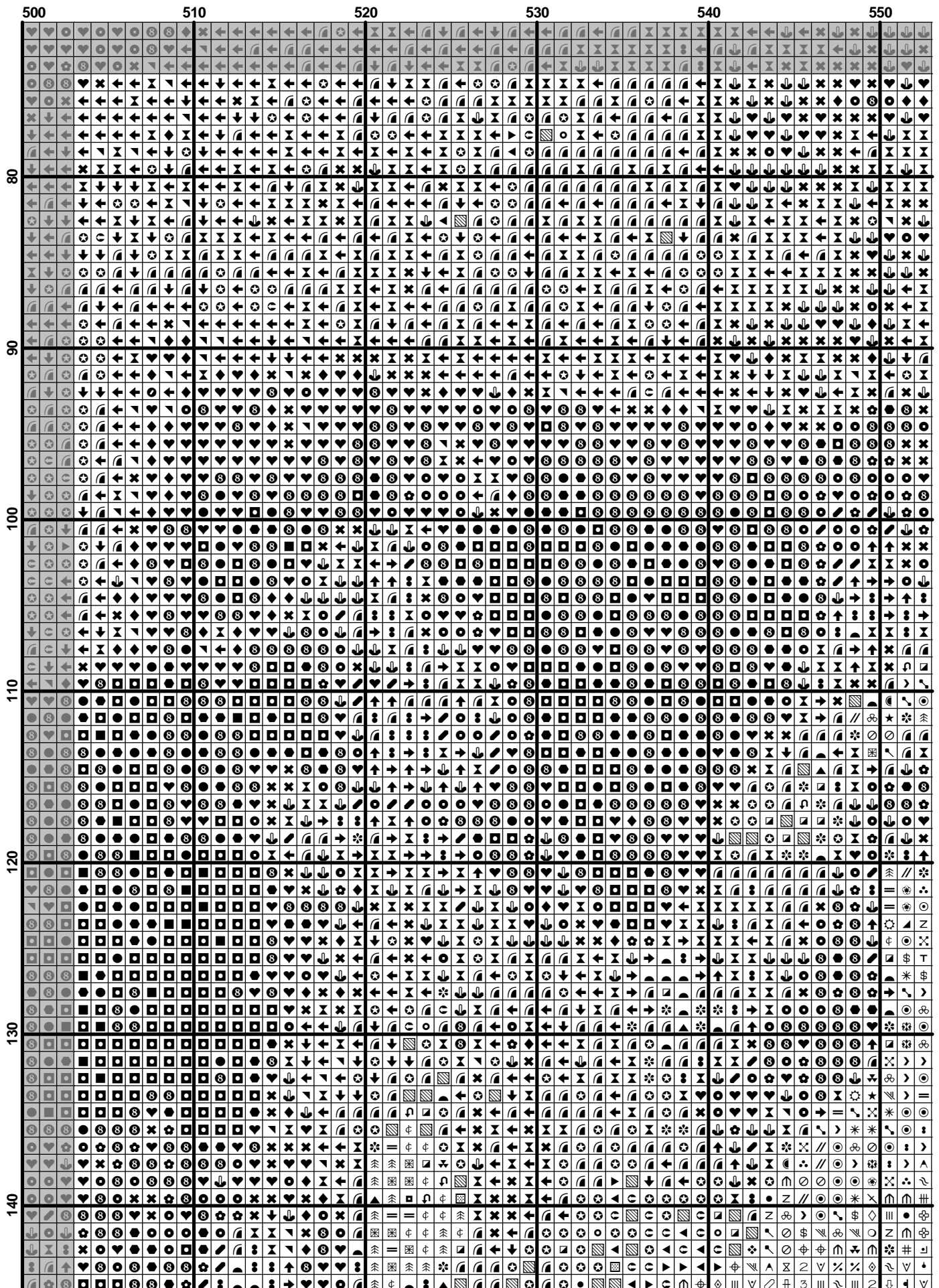


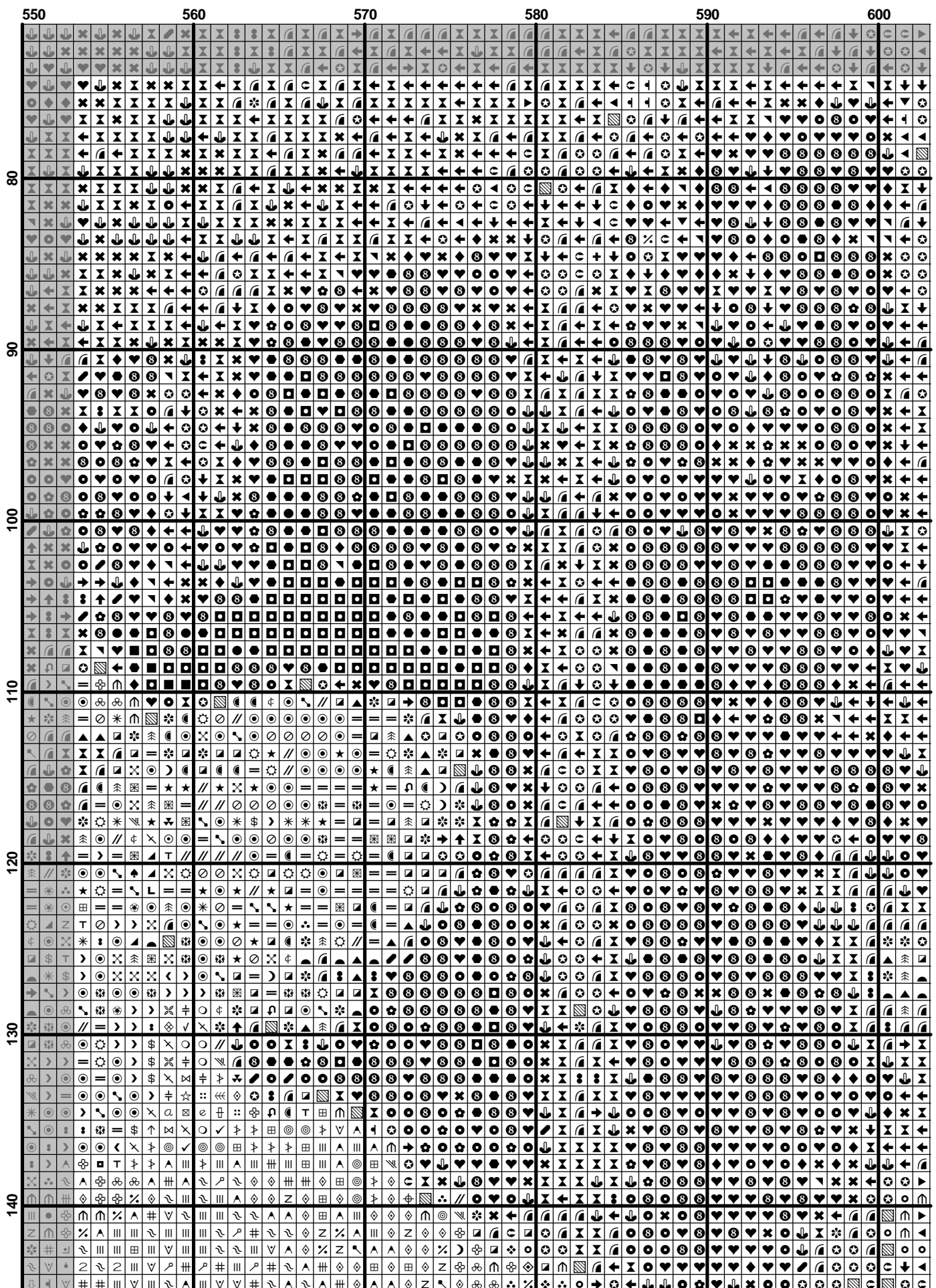




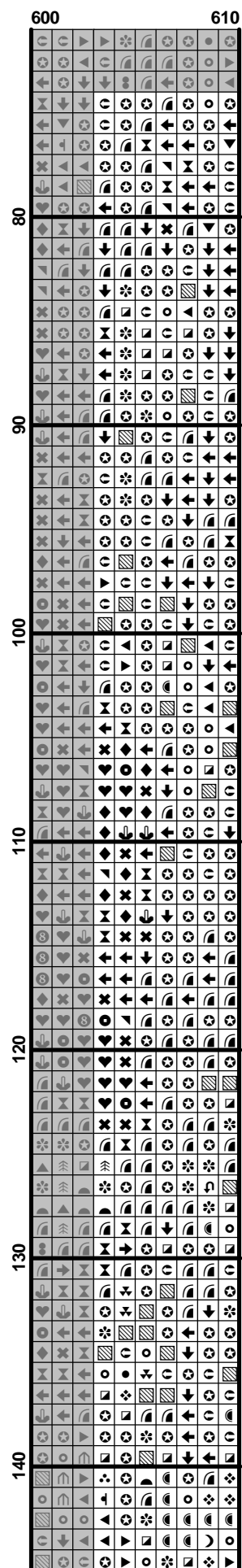


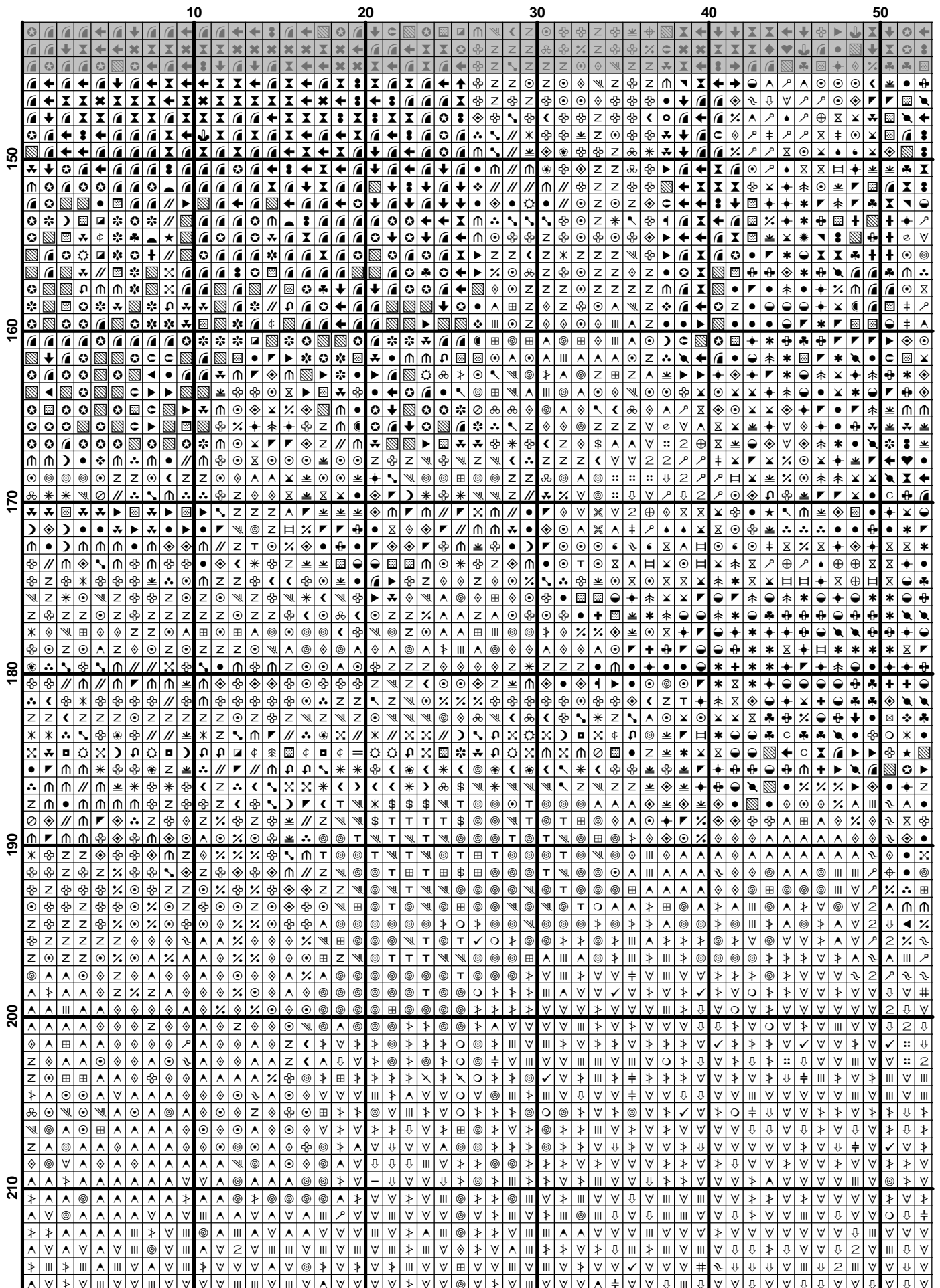


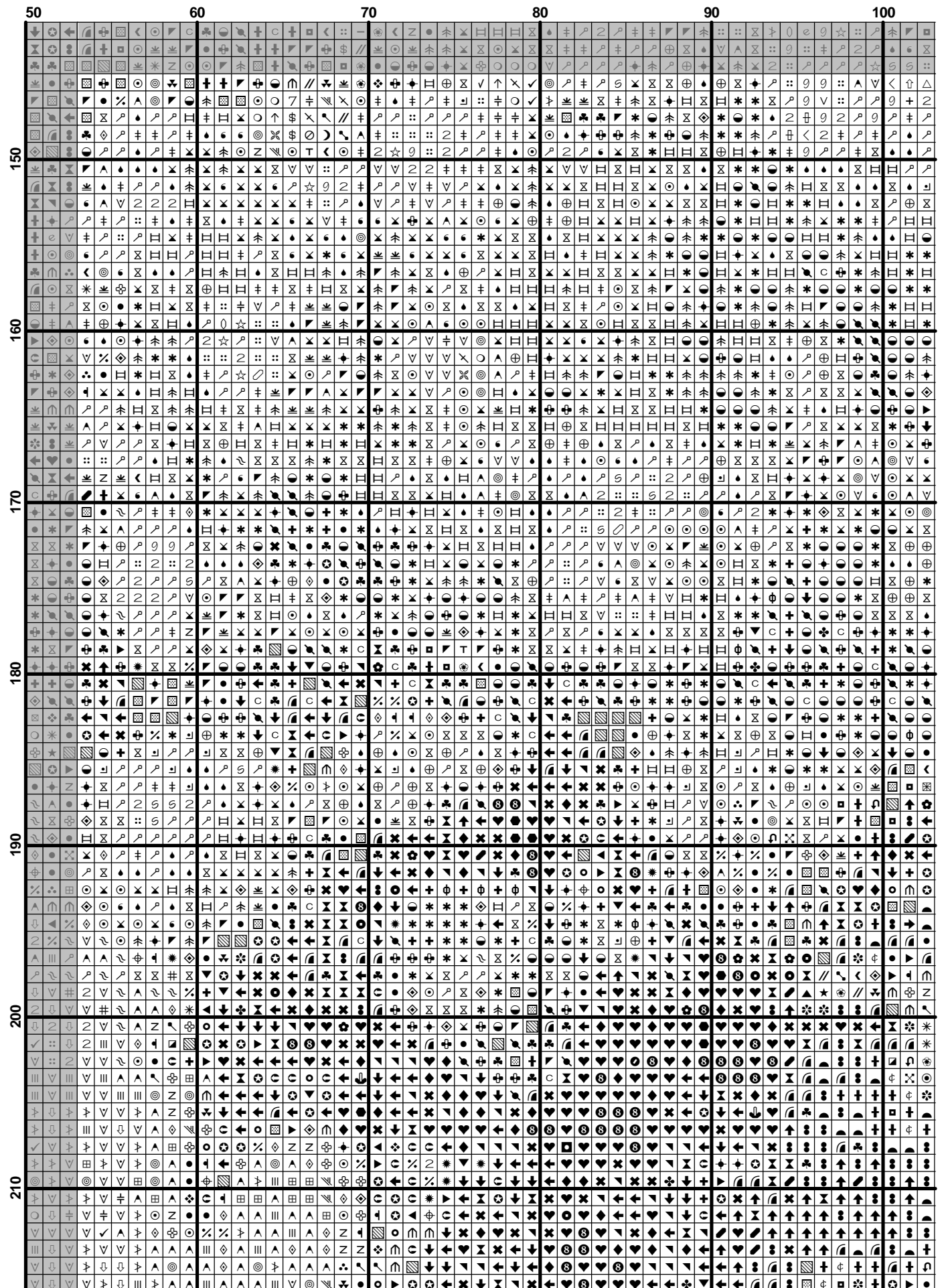


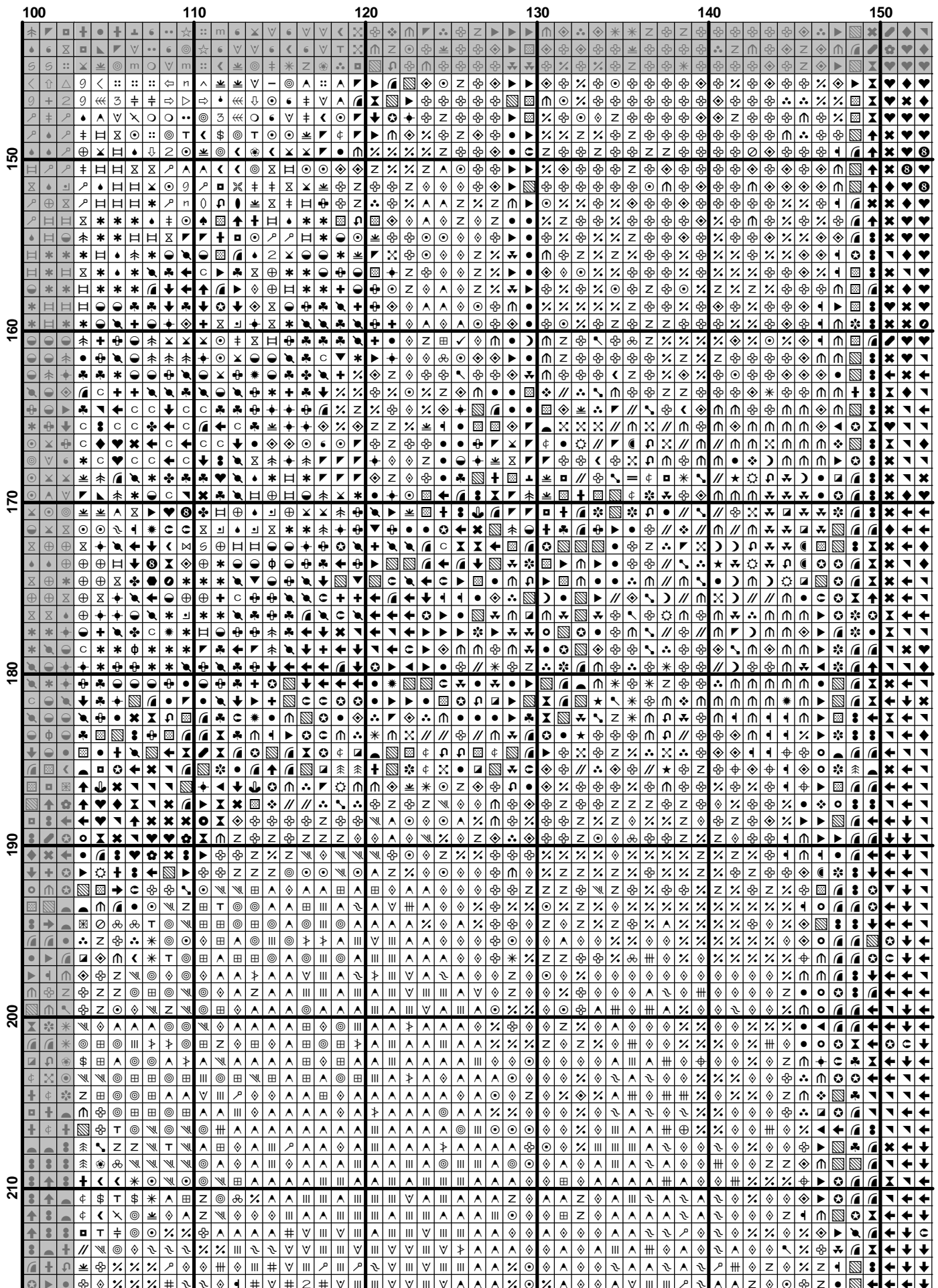


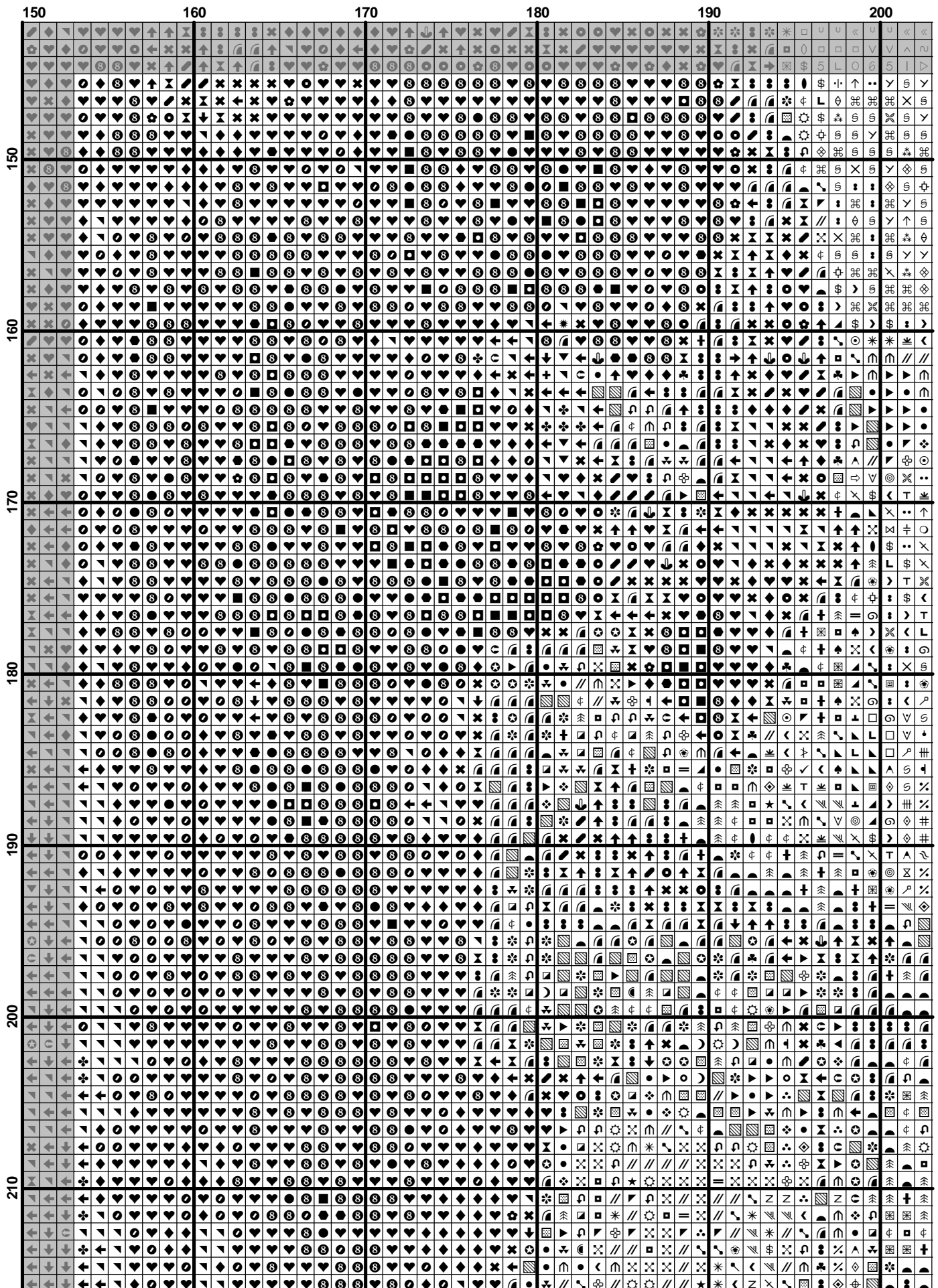


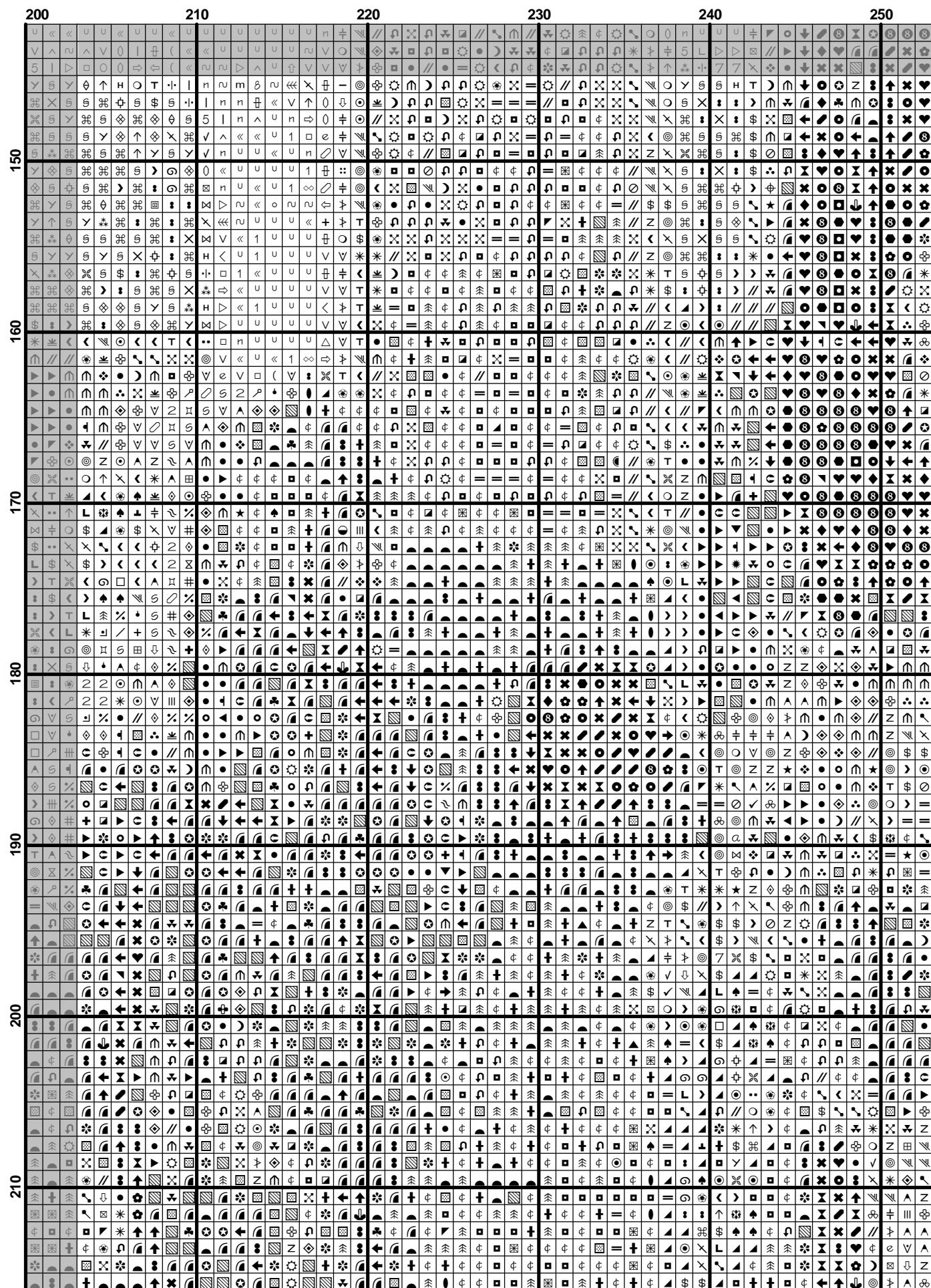


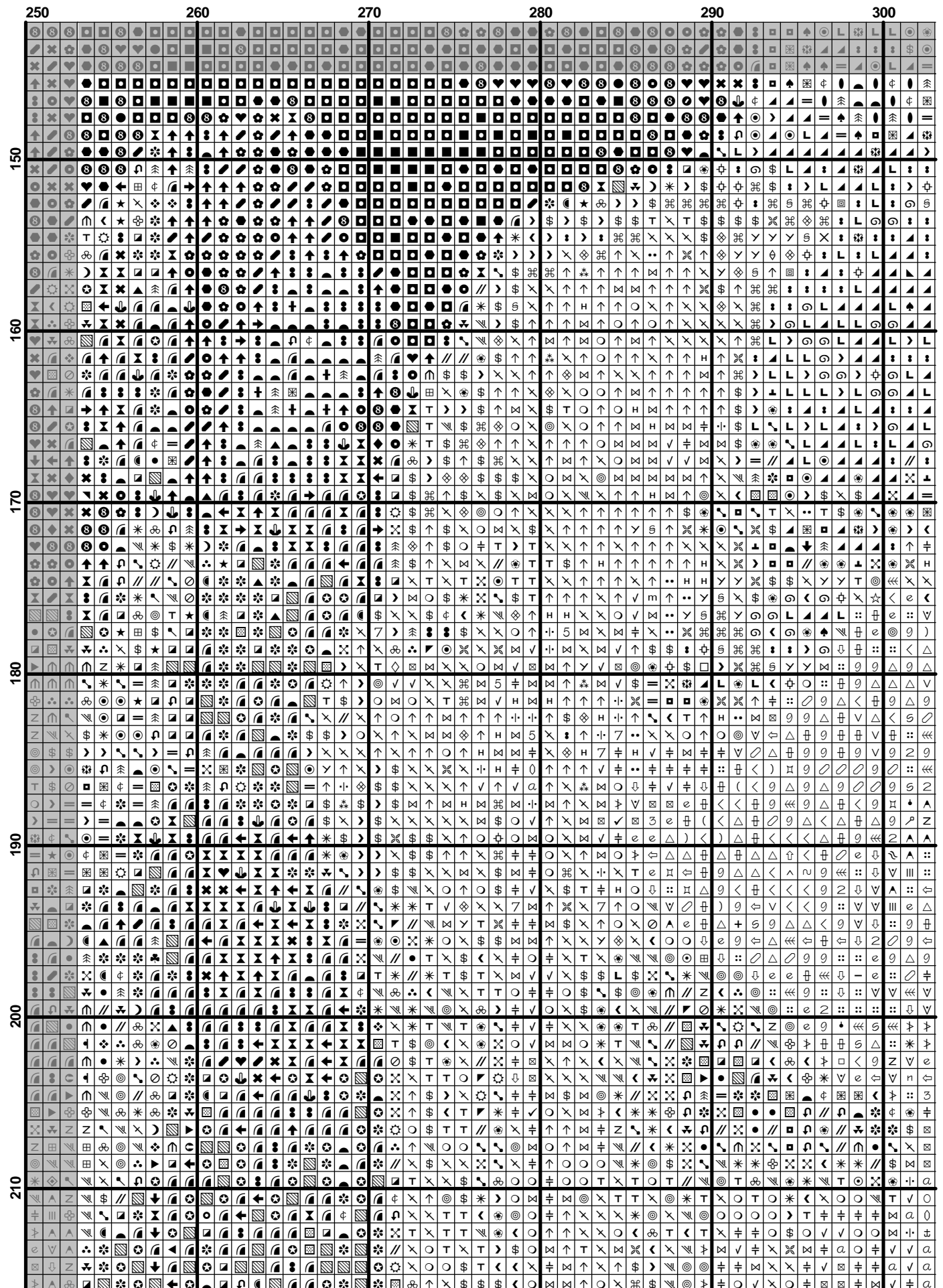




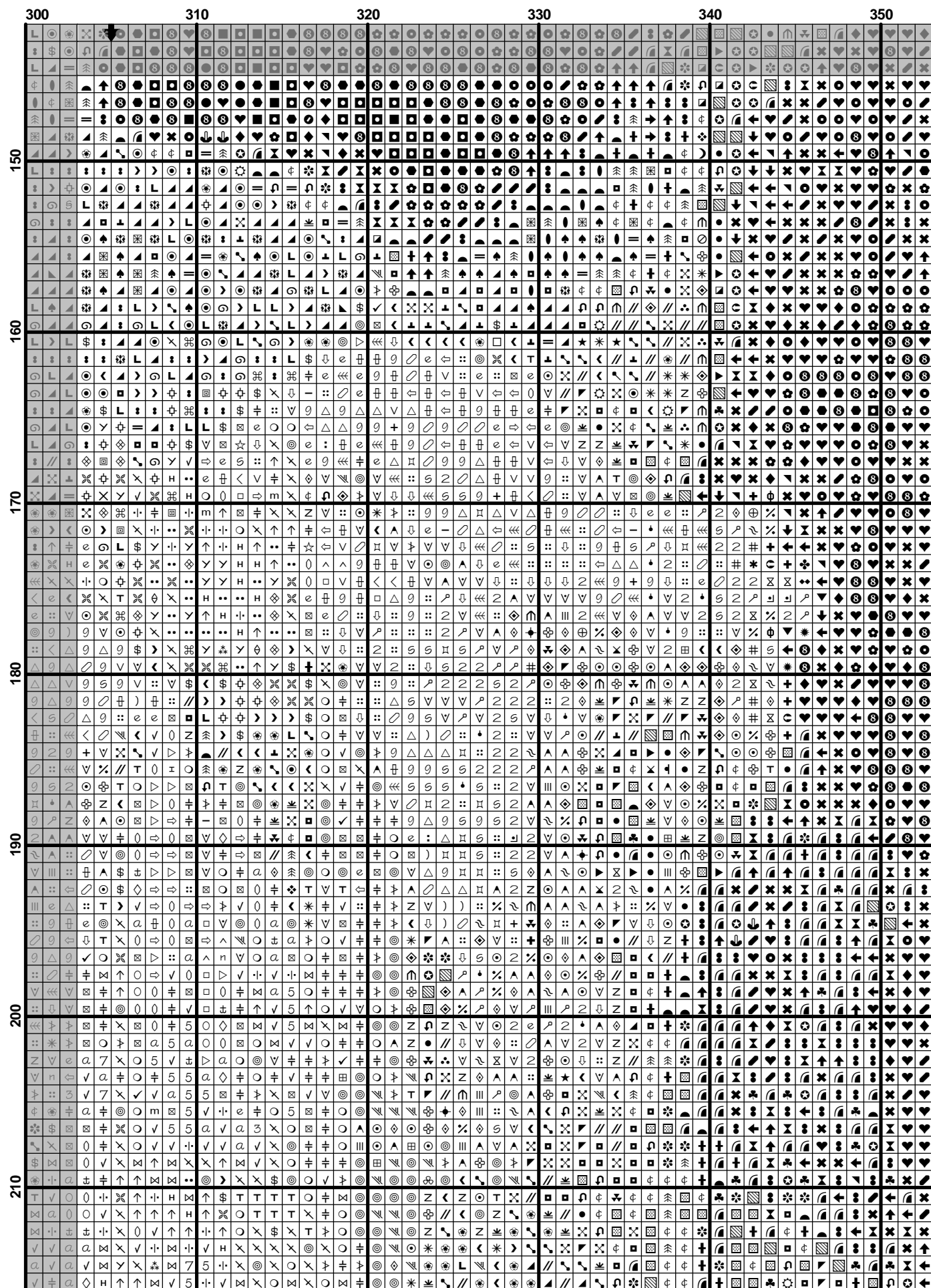






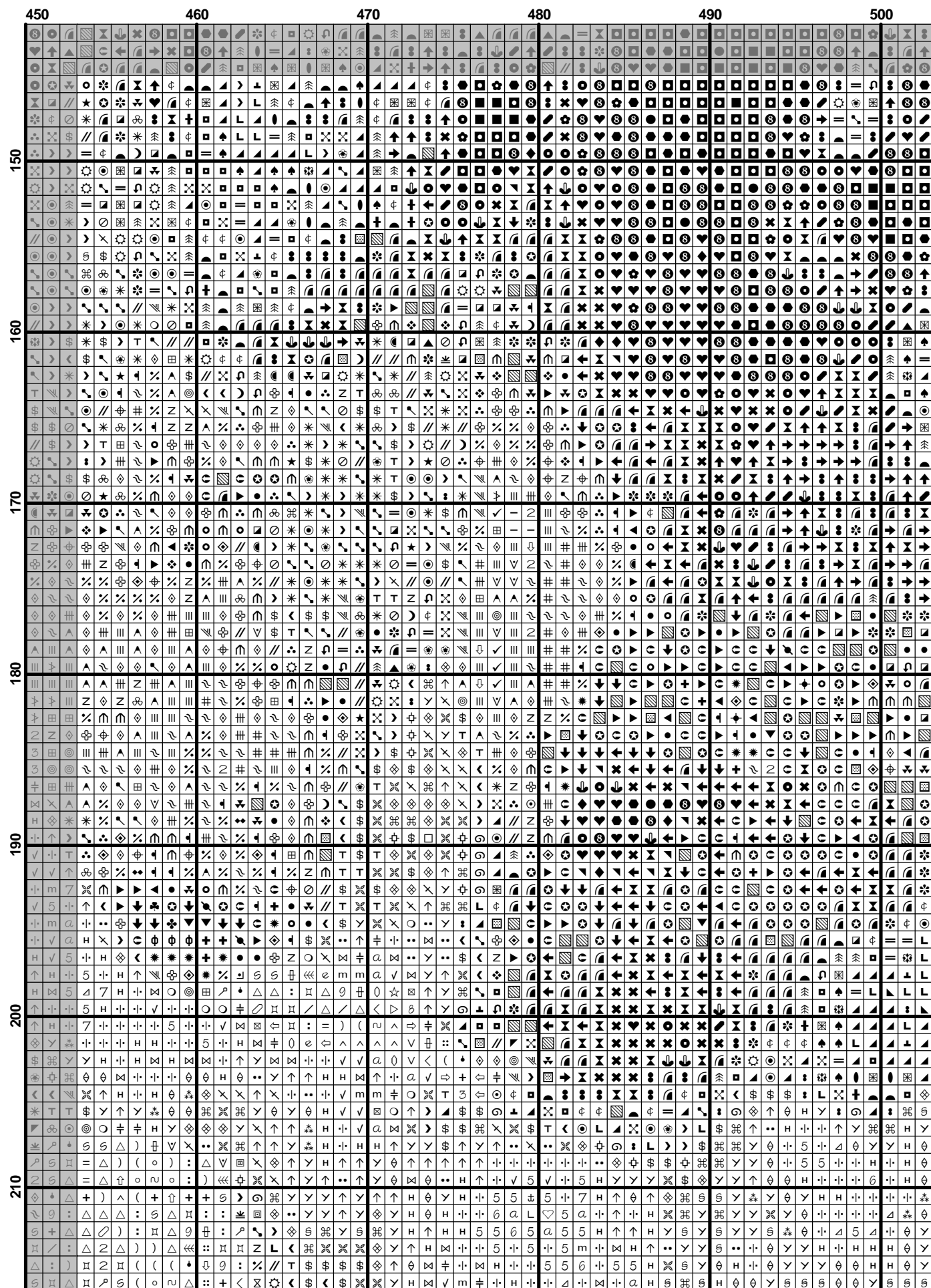


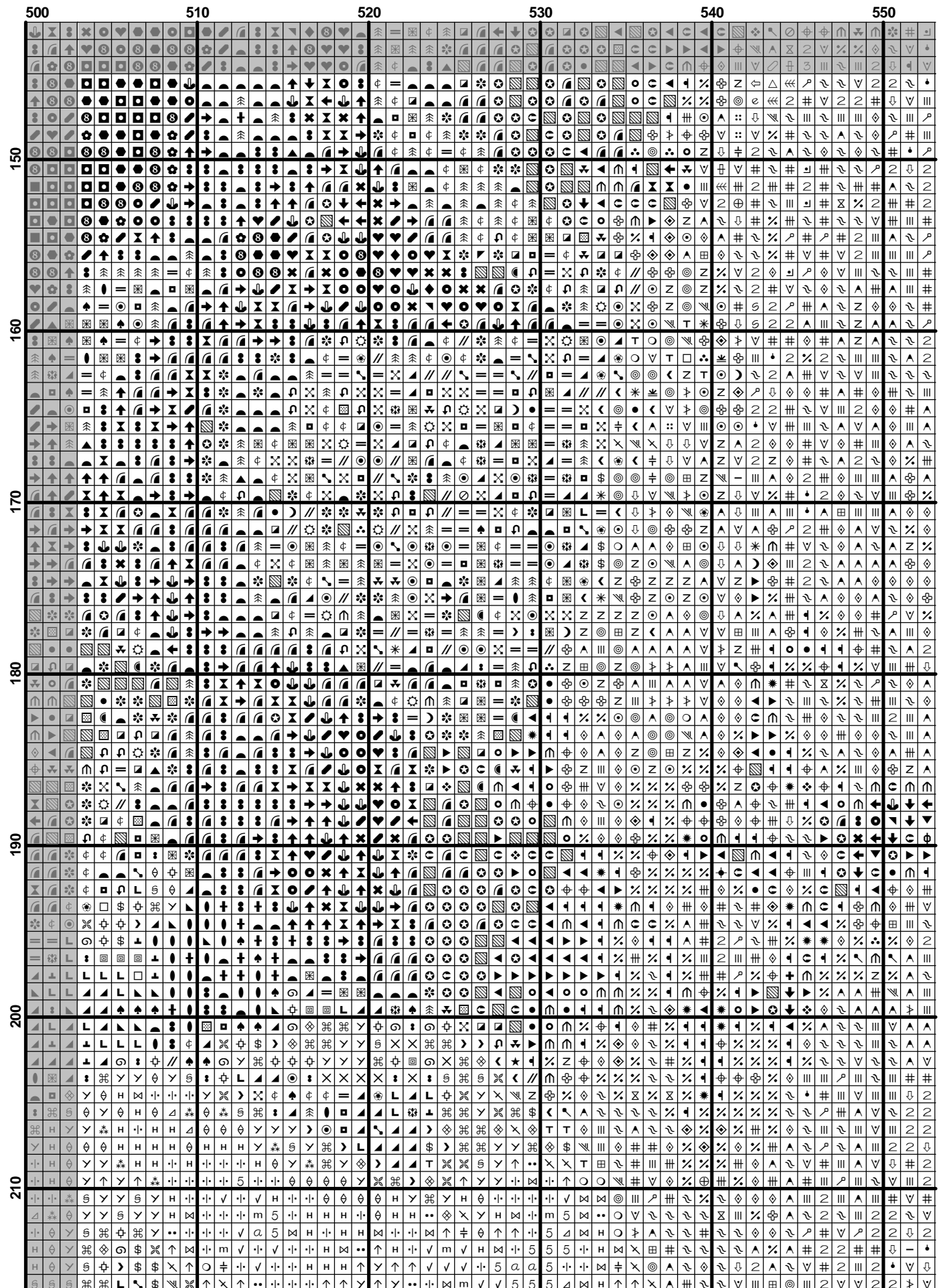




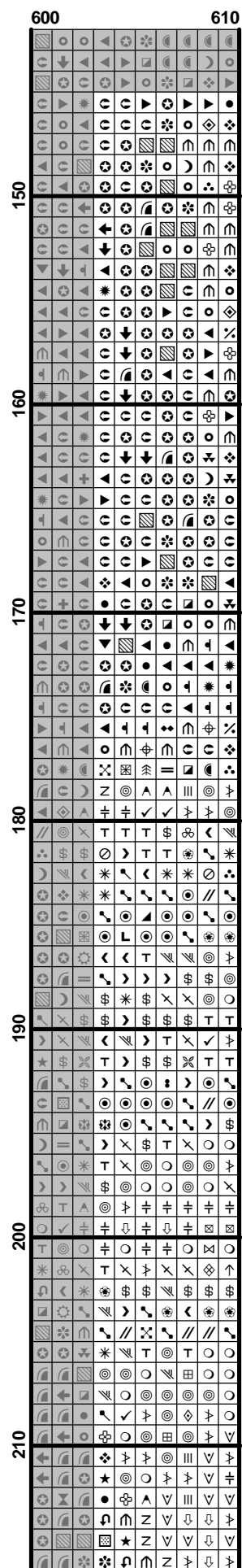
$$(47) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

[illegible]





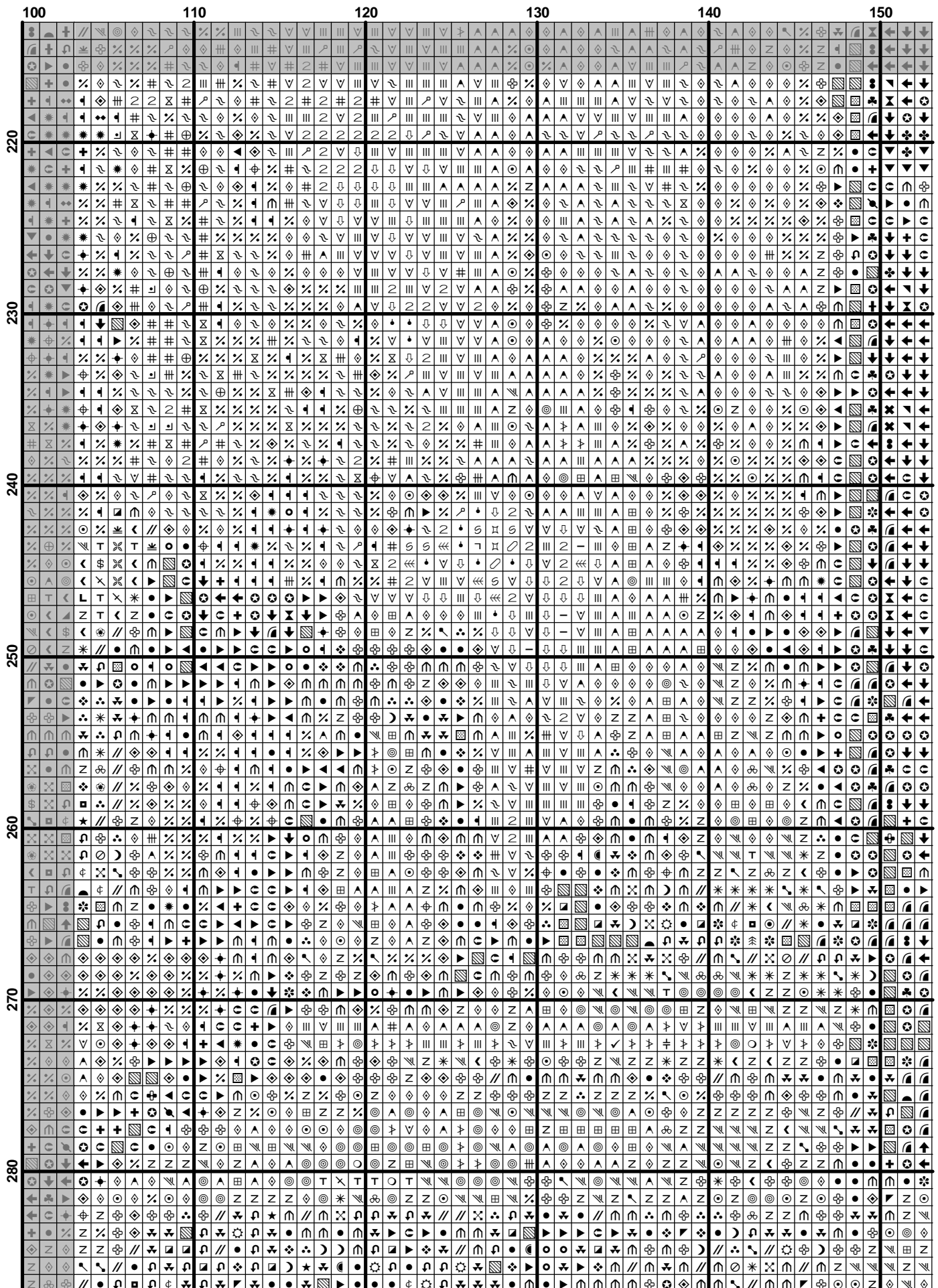
$$(51) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

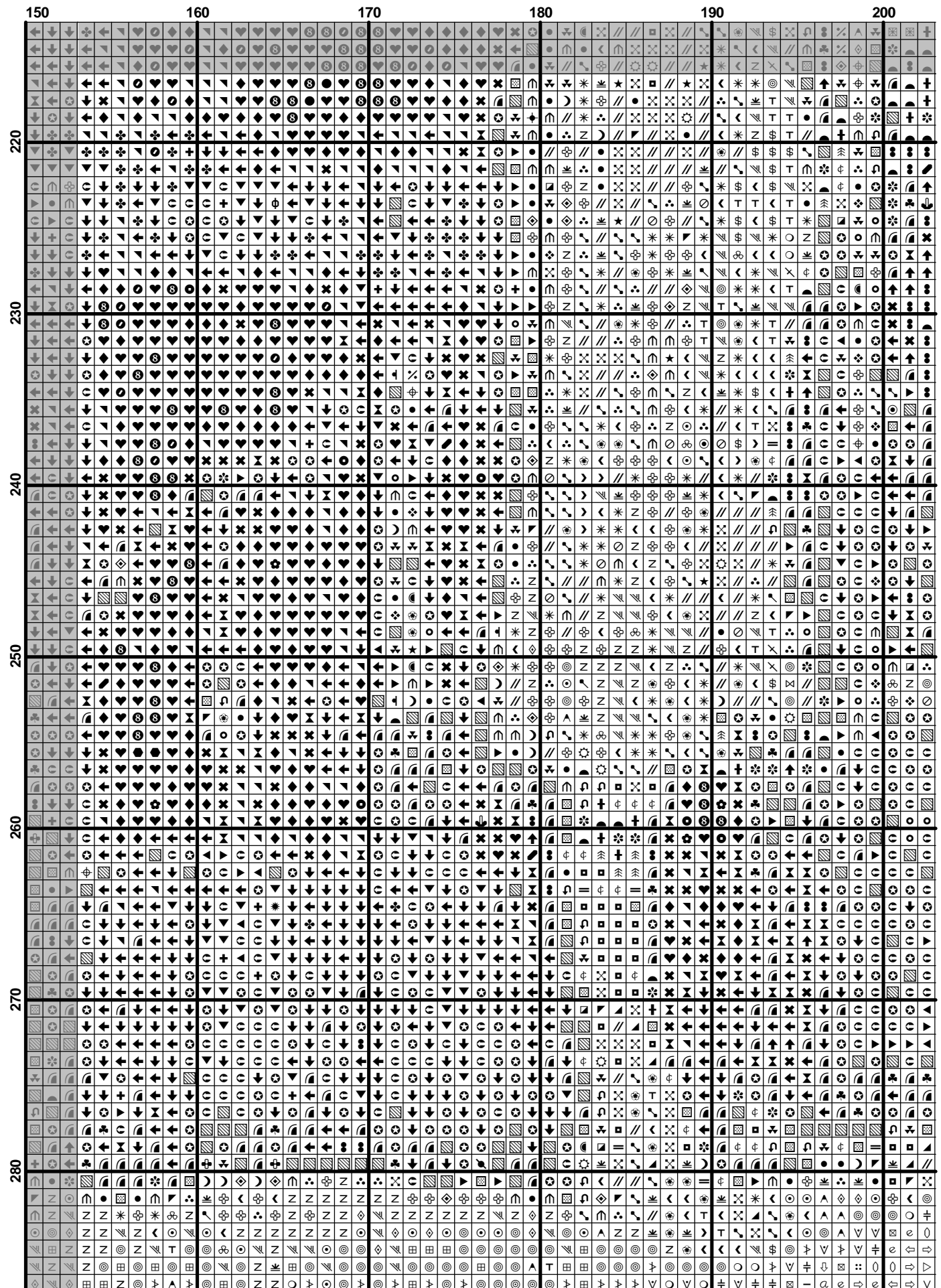


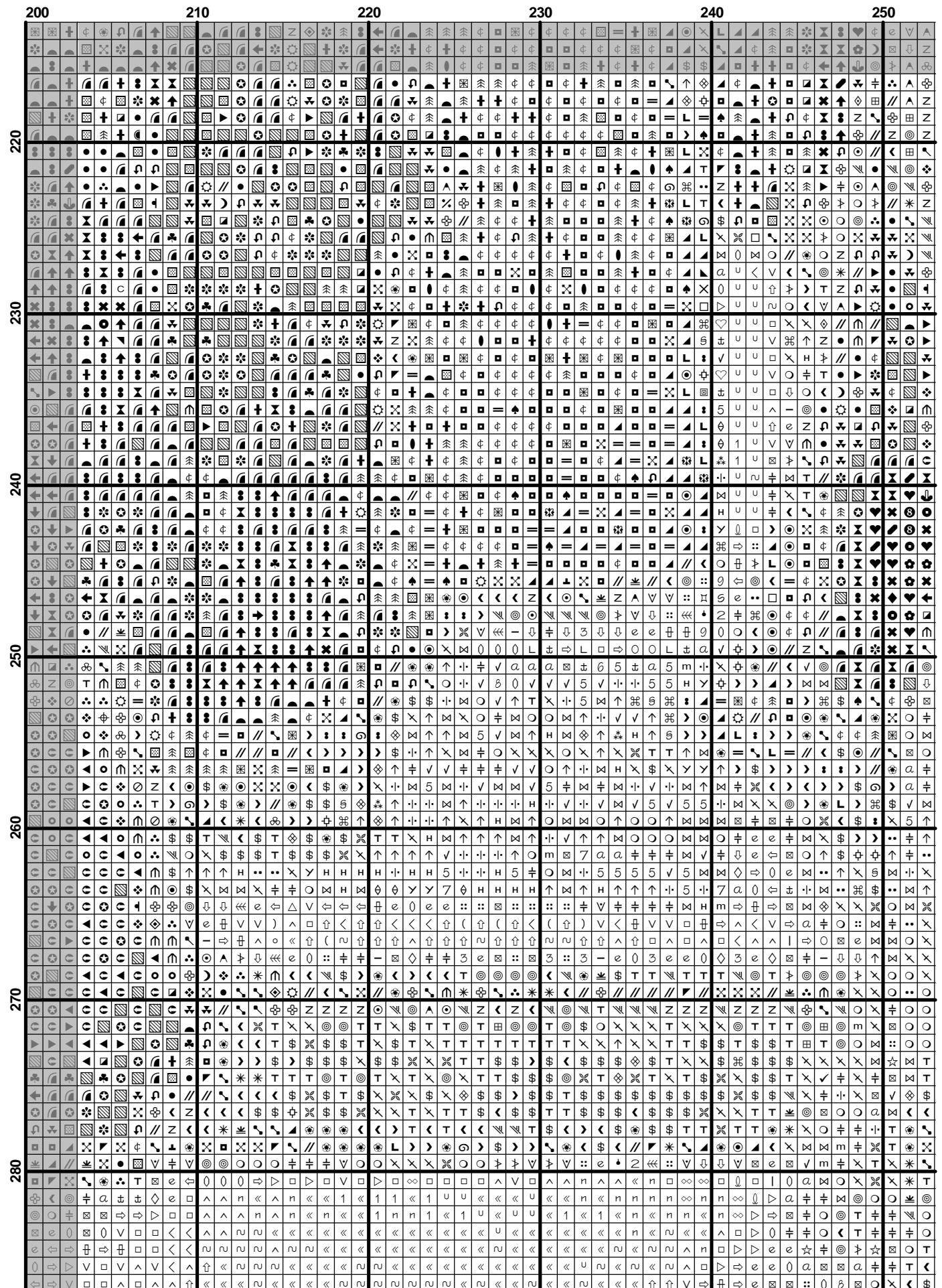


	10	20	30	40	50
220	△	▽	△	▽	△
221	△	▽	△	▽	△
222	△	▽	△	▽	△
223	△	▽	△	▽	△
224	△	▽	△	▽	△
225	△	▽	△	▽	△
226	△	▽	△	▽	△
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228	△	▽	△	▽	△
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256	△	▽	△	▽	△
257	△	▽	△	▽	△
258	△	▽	△	▽	△
259	△	▽	△	▽	△
260	△	▽	△	▽	△
261	△	▽	△	▽	△
262	△	▽	△	▽	△
263	△	▽	△	▽	△
264	△	▽	△	▽	△
265	△	▽	△	▽	△
266	△	▽	△	▽	△
267	△	▽	△	▽	△
268	△	▽	△	▽	△
269	△	▽	△	▽	△
270	△	▽	△	▽	△
271	△	▽	△	▽	△
272	△	▽	△	▽	△
273	△	▽	△	▽	△
274	△	▽	△	▽	△
275	△	▽	△	▽	△
276	△	▽	△	▽	△
277	△	▽	△	▽	△
278	△	▽	△	▽	△
279	△	▽	△	▽	△
280	△	▽	△	▽	△
281	△	▽	△	▽	△
282	△	▽	△	▽	△
283	△	▽	△	▽	△
284	△	▽	△	▽	△
285	△	▽	△	▽	△
286	△	▽	△	▽	△
287	△	▽	△	▽	△
288	△	▽	△	▽	△
289	△	▽	△	▽	△
290	△	▽	△	▽	△
291	△	▽	△	▽	△
292	△	▽	△	▽	△
293	△	▽	△	▽	△
294	△	▽	△	▽	△
295	△	▽	△	▽	△
296	△	▽	△	▽	△
297	△	▽	△	▽	△
298	△	▽	△	▽	△
299	△	▽	△	▽	△
300	△	▽	△	▽	△

	50	60	70	80	90	100
220	III	III	III	III	III	III
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222	III	III	III	III	III	III
223	III	III	III	III	III	III
224	III	III	III	III	III	III
225	III	III	III	III	III	III
226	III	III	III	III	III	III
227	III	III	III	III	III	III
228	III	III	III	III	III	III
229	III	III	III	III	III	III
230	III	III	III	III	III	III
231	III	III	III	III	III	III
232	III	III	III	III	III	III
233	III	III	III	III	III	III
234	III	III	III	III	III	III
235	III	III	III	III	III	III
236	III	III	III	III	III	III
237	III	III	III	III	III	III
238	III	III	III	III	III	III
239	III	III	III	III	III	III
240	III	III	III	III	III	III
241	III	III	III	III	III	III
242	III	III	III	III	III	III
243	III	III	III	III	III	III
244	III	III	III	III	III	III
245	III	III	III	III	III	III
246	III	III	III	III	III	III
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251	III	III	III	III	III	III
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253	III	III	III	III	III	III
254	III	III	III	III	III	III
255	III	III	III	III	III	III
256	III	III	III	III	III	III
257	III	III	III	III	III	III
258	III	III	III	III	III	III
259	III	III	III	III	III	III
260	III	III	III	III	III	III
261	III	III	III	III	III	III
262	III	III	III	III	III	III
263	III	III	III	III	III	III
264	III	III	III	III	III	III
265	III	III	III	III	III	III
266	III	III	III	III	III	III
267	III	III	III	III	III	III
268	III	III	III	III	III	III
269	III	III	III	III	III	III
270	III	III	III	III	III	III
271	III	III	III	III	III	III
272	III	III	III	III	III	III
273	III	III	III	III	III	III
274	III	III	III	III	III	III
275	III	III	III	III	III	III
276	III	III	III	III	III	III
277	III	III	III	III	III	III
278	III	III	III	III	III	III
279	III	III	III	III	III	III
280	III	III	III	III	III	III
281	III	III	III	III	III	III
282	III	III	III	III	III	III
283	III	III	III	III	III	III
284	III	III	III	III	III	III
285	III	III	III	III	III	III
286	III	III	III	III	III	III
287	III	III	III	III	III	III
288	III	III	III	III	III	III
289	III	III	III	III	III	III
290	III	III	III	III	III	III
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293	III	III	III	III	III	III
294	III	III	III	III	III	III
295	III	III	III	III	III	III
296	III	III	III	III	III	III
297	III	III	III	III	III	III
298	III	III	III	III	III	III
299	III	III	III	III	III	III
300	III	III	III	III	III	III







	250	260	270	280	290	300
220						
230						
240						
250						
260						
270						
280						

	300	310	320	330	340	350
220	...	...	...	...	...	...
230	...	...	...	...	...	...
240	...	...	...	...	...	...
250	...	...	...	...	...	...
260	...	...	...	...	...	...
270	...	...	...	...	...	...
280	...	...	...	...	...	...



(61)

	400	410	420	430	440	450
220	400	410	420	430	440	450
230	400	410	420	430	440	450
240	400	410	420	430	440	450
250	400	410	420	430	440	450
260	400	410	420	430	440	450
270	400	410	420	430	440	450
280	400	410	420	430	440	450

[illegible]

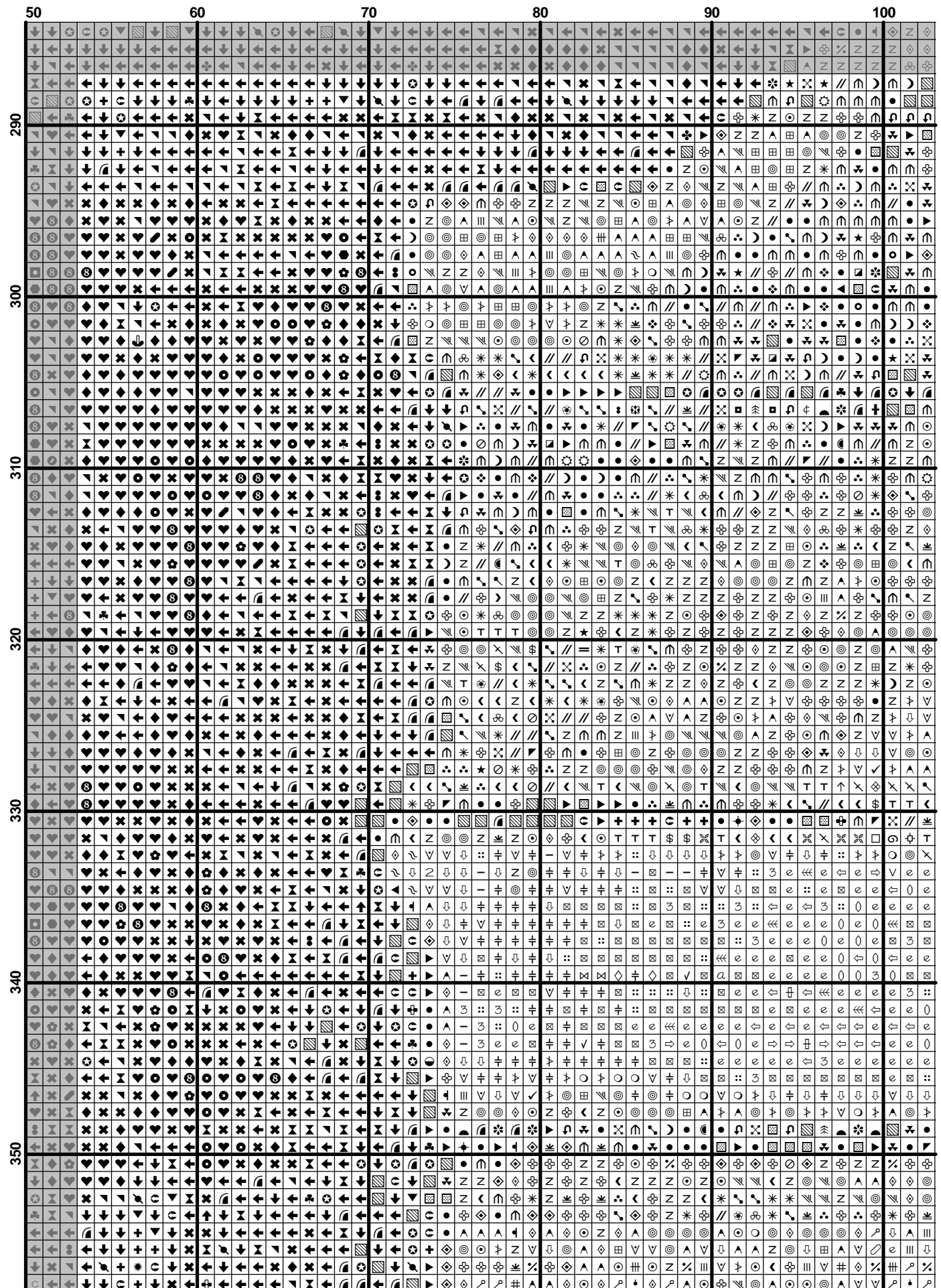
	500	510	520	530	540	550
220	H	U	Y	U	U	U
221	H	U	Y	U	U	U
222	Y	Y	Y	Y	Y	Y
223	U	U	U	U	U	U
224	U	U	U	U	U	U
225	U	U	U	U	U	U
226	U	U	U	U	U	U
227	U	U	U	U	U	U
228	U	U	U	U	U	U
229	U	U	U	U	U	U
230	U	U	U	U	U	U
231	U	U	U	U	U	U
232	U	U	U	U	U	U
233	U	U	U	U	U	U
234	U	U	U	U	U	U
235	U	U	U	U	U	U
236	U	U	U	U	U	U
237	U	U	U	U	U	U
238	U	U	U	U	U	U
239	U	U	U	U	U	U
240	U	U	U	U	U	U
241	U	U	U	U	U	U
242	U	U	U	U	U	U
243	U	U	U	U	U	U
244	U	U	U	U	U	U
245	U	U	U	U	U	U
246	U	U	U	U	U	U
247	U	U	U	U	U	U
248	U	U	U	U	U	U
249	U	U	U	U	U	U
250	U	U	U	U	U	U
251	U	U	U	U	U	U
252	U	U	U	U	U	U
253	U	U	U	U	U	U
254	U	U	U	U	U	U
255	U	U	U	U	U	U
256	U	U	U	U	U	U
257	U	U	U	U	U	U
258	U	U	U	U	U	U
259	U	U	U	U	U	U
260	U	U	U	U	U	U
261	U	U	U	U	U	U
262	U	U	U	U	U	U
263	U	U	U	U	U	U
264	U	U	U	U	U	U
265	U	U	U	U	U	U
266	U	U	U	U	U	U
267	U	U	U	U	U	U
268	U	U	U	U	U	U
269	U	U	U	U	U	U
270	U	U	U	U	U	U
271	U	U	U	U	U	U
272	U	U	U	U	U	U
273	U	U	U	U	U	U
274	U	U	U	U	U	U
275	U	U	U	U	U	U
276	U	U	U	U	U	U
277	U	U	U	U	U	U
278	U	U	U	U	U	U
279	U	U	U	U	U	U
280	U	U	U	U	U	U
281	U	U	U	U	U	U
282	U	U	U	U	U	U
283	U	U	U	U	U	U
284	U	U	U	U	U	U
285	U	U	U	U	U	U
286	U	U	U	U	U	U
287	U	U	U	U	U	U
288	U	U	U	U	U	U
289	U	U	U	U	U	U
290	U	U	U	U	U	U
291	U	U	U	U	U	U
292	U	U	U	U	U	U
293	U	U	U	U	U	U
294	U	U	U	U	U	U
295	U	U	U	U	U	U
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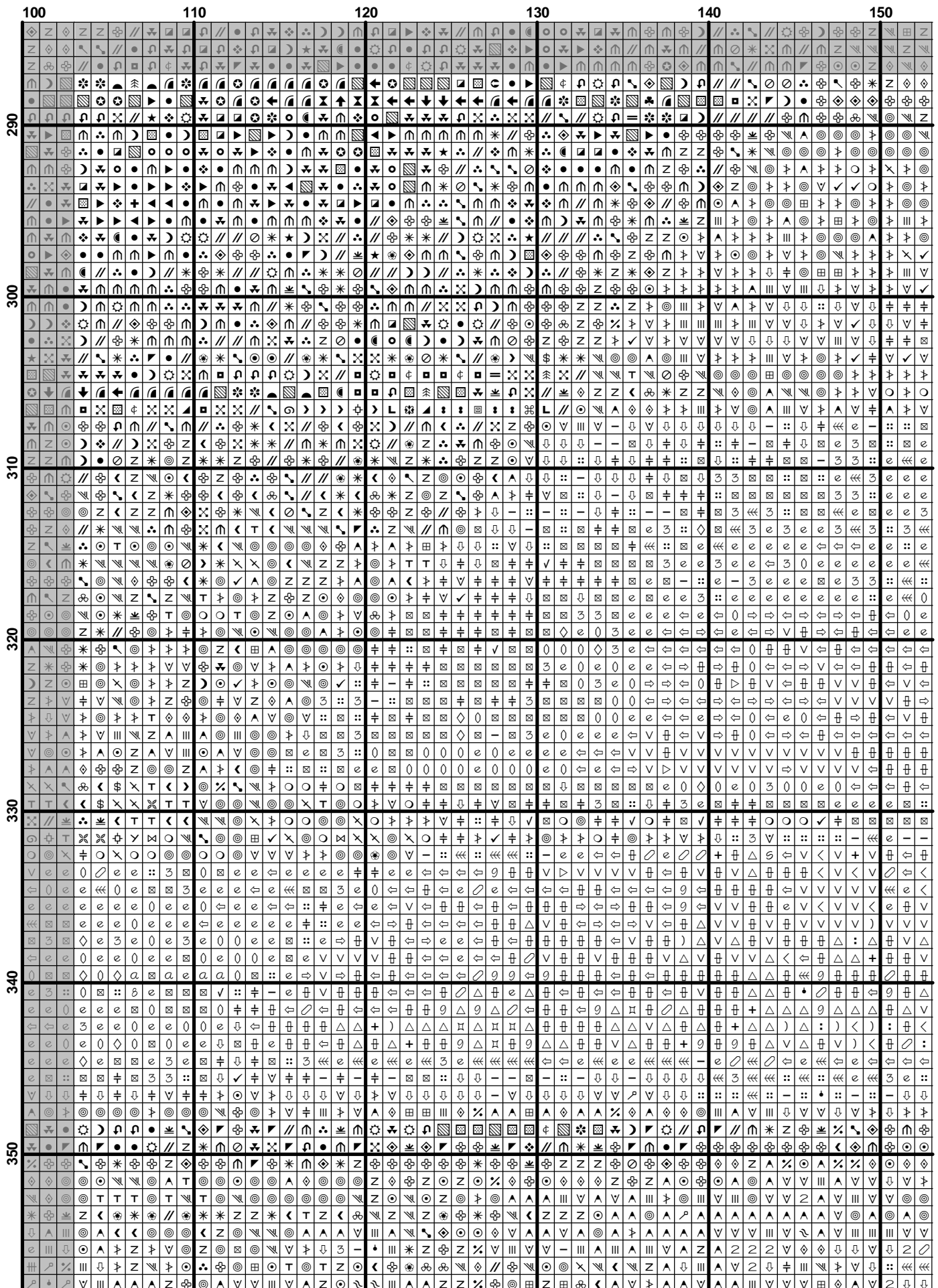
	550	560	570	580	590	600
220	...	...	...	...	...	...
230	...	...	...	...	...	...
240	...	...	...	...	...	...
250	...	...	...	...	...	...
260	...	...	...	...	...	...
270	...	...	...	...	...	...
280	...	...	...	...	...	...



$$(66) \quad \text{[...]} \quad (67)$$







150	160	170	180	190	200
290	300	310	320	330	340
350					

(71)

250	260	270	280	290	300
290	300	310	320	330	340
350					

(73)

$$(73) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

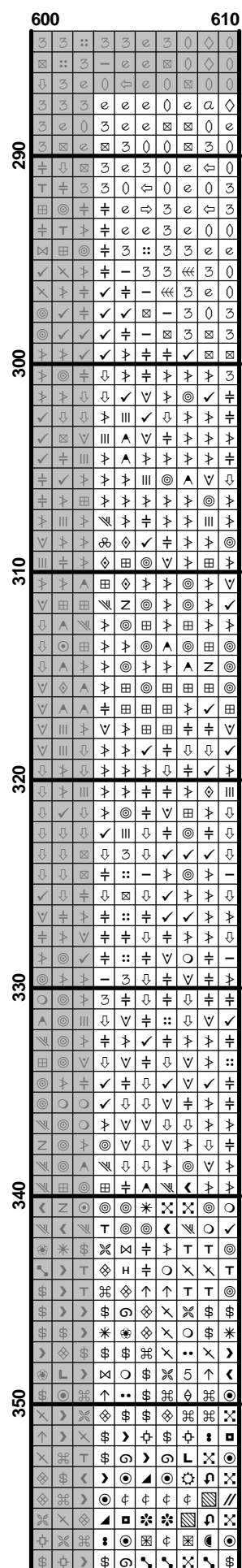


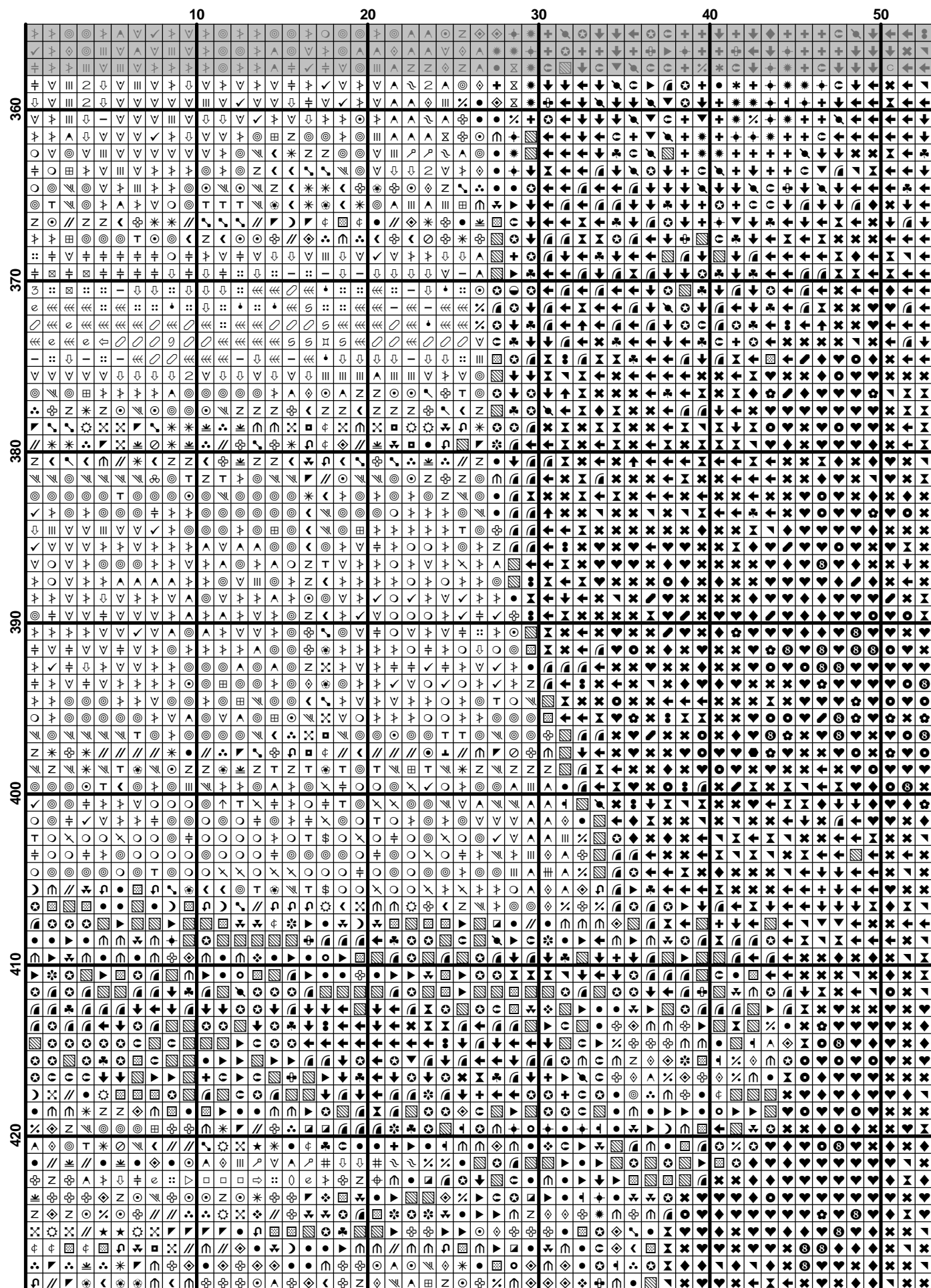
	400	410	420	430	440	450
	400	410	420	430	440	450
290						
300						
310						
320						
330						
340						
350						

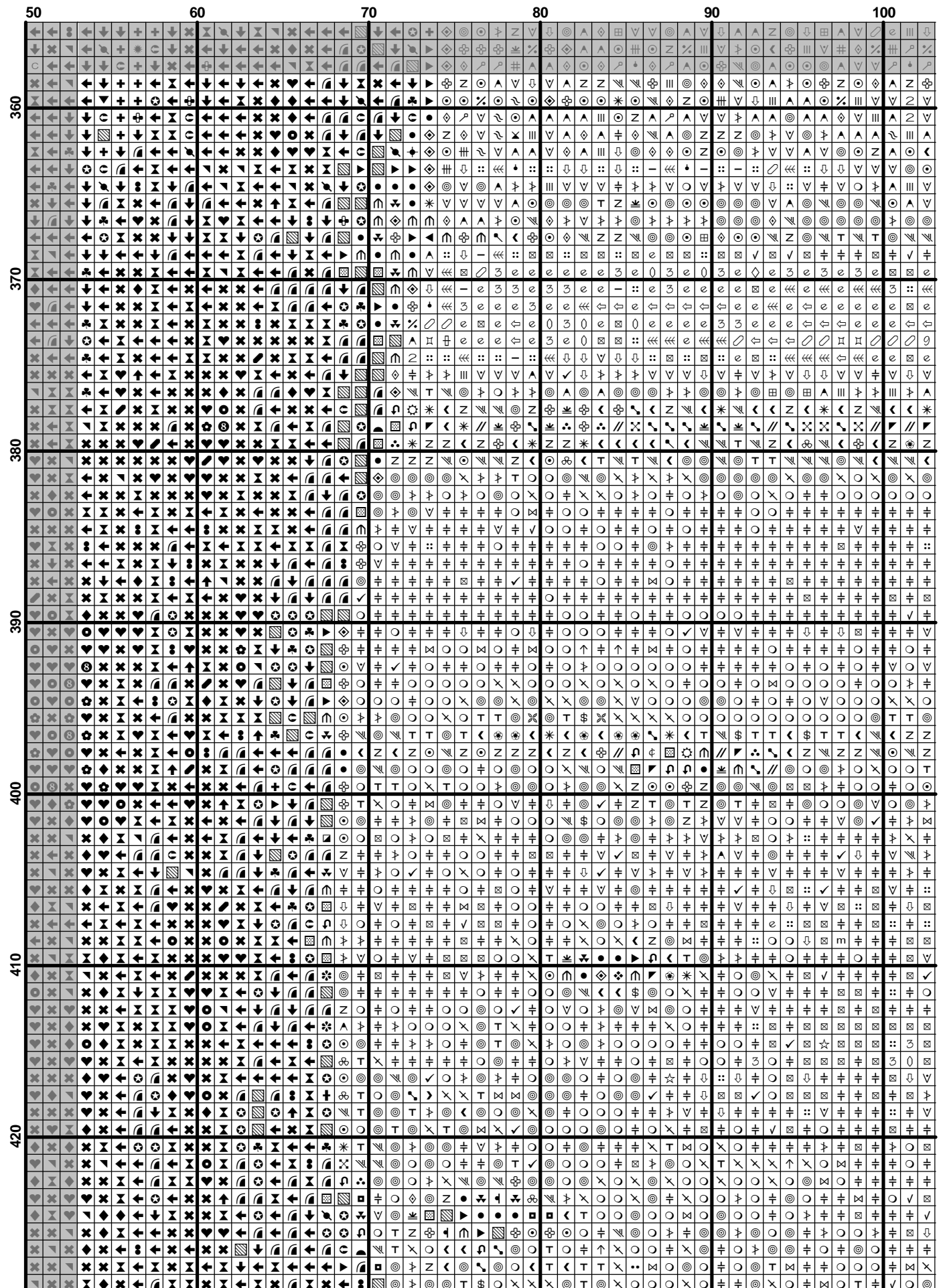
450	460	470	480	490	500
450	460	470	480	490	500
290	300	310	320	330	340
350					

500	510	520	530	540	550
500	510	520	530	540	550
290	300	310	320	330	340
350					

550	560	570	580	590	600
290	290	290	290	290	290
300	300	300	300	300	300
310	310	310	310	310	310
320	320	320	320	320	320
330	330	330	330	330	330
340	340	340	340	340	340
350	350	350	350	350	350









	360	370	380	390	400	410	420
100							
110							
120							
130							
140							
150							

$$(82) \quad \mathcal{H}^{\text{reg}}_{\text{reg}} = \mathcal{H}^{\text{reg}}_{\text{reg}} \quad (83)$$

	200	210	220	230	240	250
360	⬆	⬆	⬆	⬆	⬆	⬆
370	⬆	⬆	⬆	⬆	⬆	⬆
380	⬆	⬆	⬆	⬆	⬆	⬆
390	⬆	⬆	⬆	⬆	⬆	⬆
400	⬆	⬆	⬆	⬆	⬆	⬆
410	⬆	⬆	⬆	⬆	⬆	⬆
420	⬆	⬆	⬆	⬆	⬆	⬆

	250	260	270	280	290	300
360	+	+	+	+	+	+
370	+	+	+	+	+	+
380	+	+	+	+	+	+
390	+	+	+	+	+	+
400	+	+	+	+	+	+
410	+	+	+	+	+	+
420	+	+	+	+	+	+

	300	310	320	330	340	350
360	...	...	...	...	...	...
370	...	...	...	...	...	...
380	...	...	...	...	...	...
390	...	...	...	...	...	...
400	...	...	...	...	...	...
410	...	...	...	...	...	...
420	...	...	...	...	...	...

	350	360	370	380	390	400
360	350	360	370	380	390	400
370	360	370	380	390	400	
380	370	380	390	400		
390	380	390	400			
400	390	400				
410						
420						

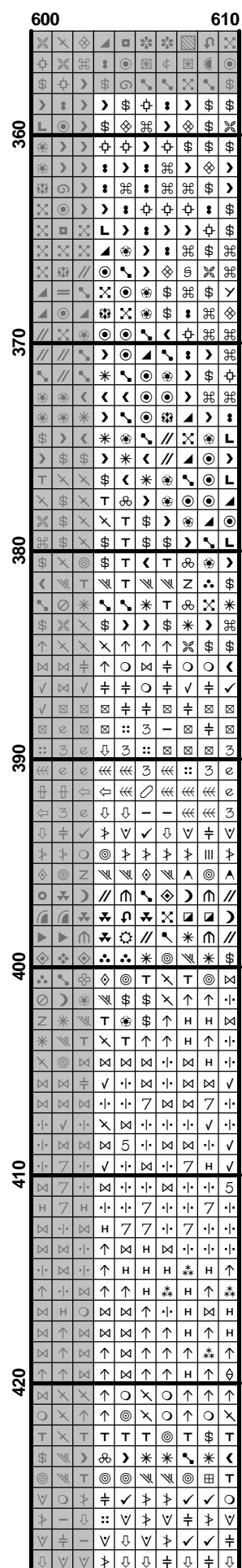
(88)

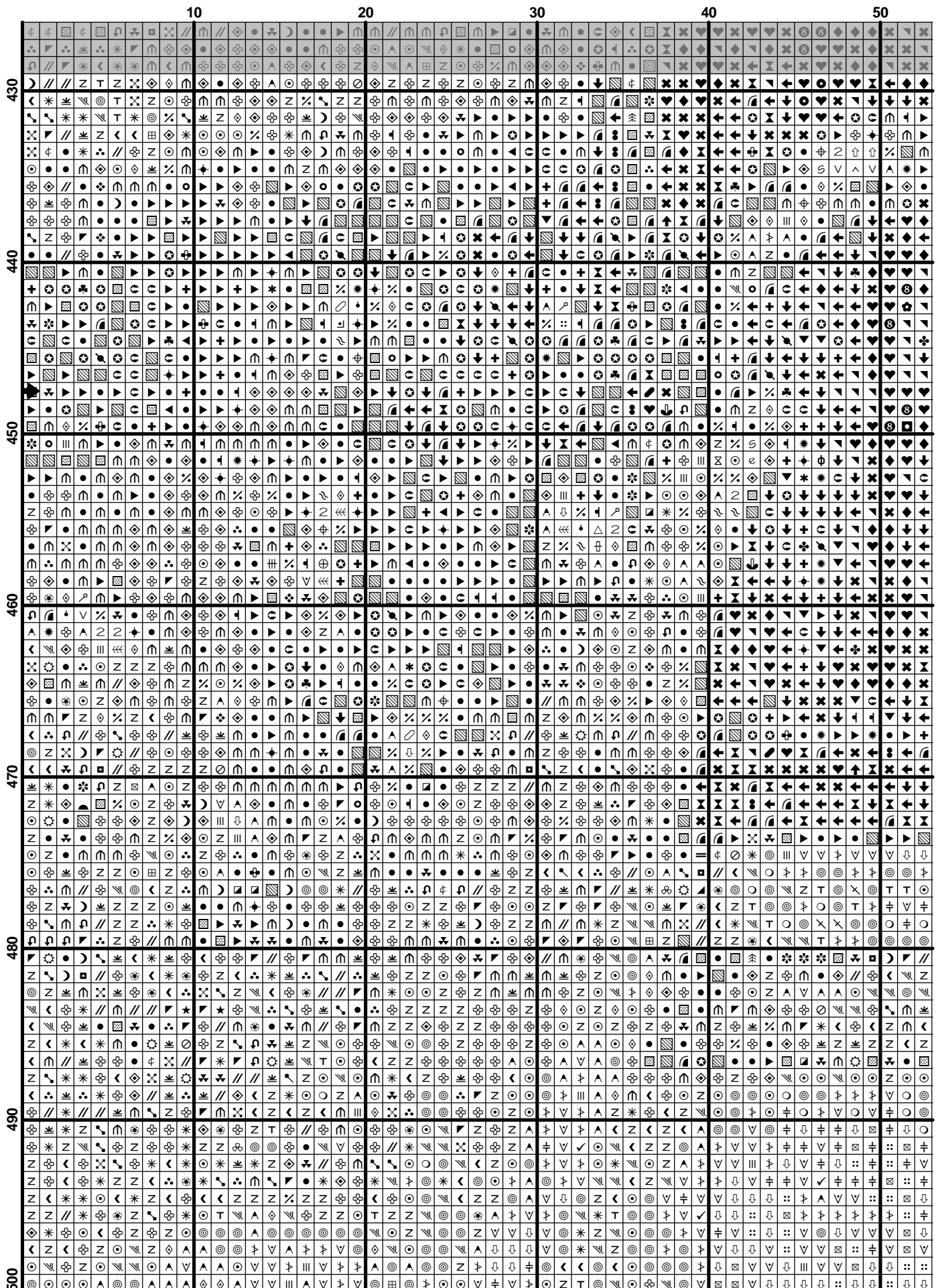
	450	460	470	480	490	500
360	450	460	470	480	490	500
370	360	370	380	390	400	410
380	380	390	400	410	420	430
390	390	400	410	420	430	440
400	400	410	420	430	440	450
410	410	420	430	440	450	460
420	420	430	440	450	460	470
430	430	440	450	460	470	480
440	440	450	460	470	480	490
450	450	460	470	480	490	500

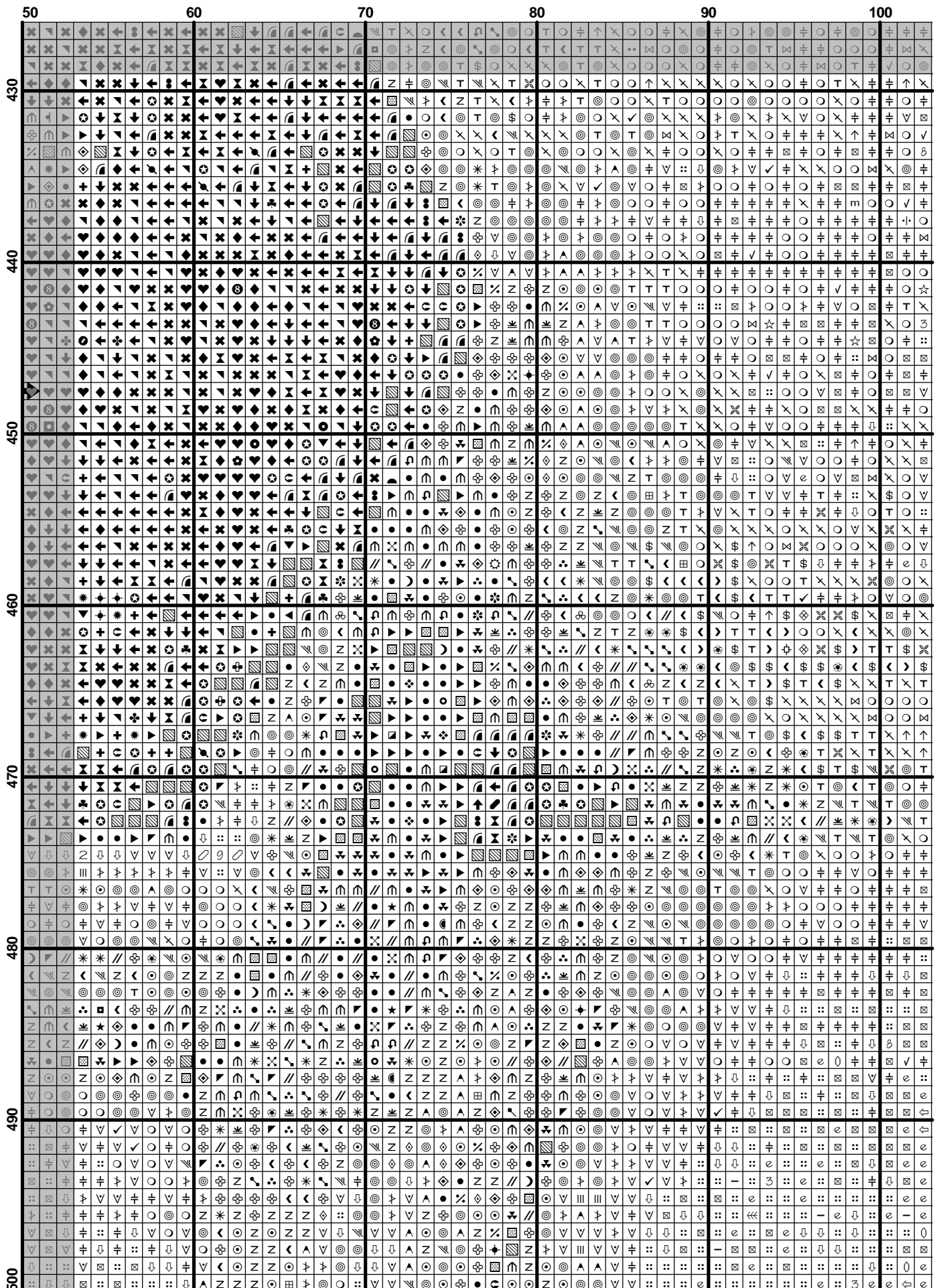


$$(89) \quad \text{[...]} \quad (90)$$

	550	560	570	580	590	600
360						
370						
380						
390						
400						
410						
420						







	100	110	120	130	140	150
430	+	+	+	+	+	+
440	+	+	+	+	+	+
450	+	+	+	+	+	+
460	+	+	+	+	+	+
470	+	+	+	+	+	+
480	+	+	+	+	+	+
490	+	+	+	+	+	+
500	+	+	+	+	+	+

	150	160	170	180	190	200
430	...	...	...	...	...	...
440	...	...	...	...	...	...
450	...	...	...	...	...	...
460	...	...	...	...	...	...
470	...	...	...	...	...	...
480	...	...	...	...	...	...
490	...	...	...	...	...	...
500	...	...	...	...	...	...

$$(96) \quad \text{[The following is a special case of (95) with } \mathbf{A} = \mathbf{I}_n \text{ and } \mathbf{B} = \mathbf{0}_n \text{]} \quad (97)$$



	250	260	270	280	290	300
430	○	○	○	○	○	○
440	○	○	○	○	○	○
450	○	○	○	○	○	○
460	○	○	○	○	○	○
470	○	○	○	○	○	○
480	○	○	○	○	○	○
490	○	○	○	○	○	○
500	○	○	○	○	○	○

	300	310	320	330	340	350
430	▽	▽	▽	▽	▽	▽
440	▽	▽	▽	▽	▽	▽
450	▽	▽	▽	▽	▽	▽
460	▽	▽	▽	▽	▽	▽
470	▽	▽	▽	▽	▽	▽
480	▽	▽	▽	▽	▽	▽
490	▽	▽	▽	▽	▽	▽
500	▽	▽	▽	▽	▽	▽

$$(99) \quad \text{[The following is a list of } n \text{ elements of } \mathcal{A} \text{, where } n \text{ is a natural number.]} \quad (100)$$

400	410	420	430	440	450
430	440	450	460	470	480
490	500				

(102)

500	510	520	530	540	550
430	440	450	460	470	480
490	500				

[illegible]

(104)



(106)

	50	60	70	80	90	100
500	⬆	⬆	⬆	⬆	⬆	⬆
510	⬆	⬆	⬆	⬆	⬆	⬆
520	⬆	⬆	⬆	⬆	⬆	⬆
530	⬆	⬆	⬆	⬆	⬆	⬆
540	⬆	⬆	⬆	⬆	⬆	⬆
550	⬆	⬆	⬆	⬆	⬆	⬆
560	⬆	⬆	⬆	⬆	⬆	⬆
570	⬆	⬆	⬆	⬆	⬆	⬆

	100	110	120	130	140	150
500	...	...	...	...	...	...
510	...	...	...	...	...	...
520	...	...	...	...	...	...
530	...	...	...	...	...	...
540	...	...	...	...	...	...
550	...	...	...	...	...	...
560	...	...	...	...	...	...
570	...	...	...	...	...	...

(109)

(110)

	250	260	270	280	290	300
500	2	2	2	2	2	2
510	2	2	2	2	2	2
520	2	2	2	2	2	2
530	2	2	2	2	2	2
540	2	2	2	2	2	2
550	2	2	2	2	2	2
560	2	2	2	2	2	2
570	2	2	2	2	2	2

(112)

(113)



(114)

(115)

500	510	520	530	540	550
500	510	520	530	540	550
510	520	530	540	550	
520	530	540	550		
530	540	550			
540	550				
550					
560					
570					

(117)

(117)

(119)

	50	60	70	80	90	100
570	+	+	+	+	+	+
580	+	+	+	+	+	+
590	+	+	+	+	+	+
600	+	+	+	+	+	+
610	+	+	+	+	+	+
620	+	+	+	+	+	+
630	+	+	+	+	+	+
640	+	+	+	+	+	+

	100	110	120	130	140	150
570						
580						
590						
600						
610						
620						
630						
640						



(122)

(123)

(124)

(125)

(126)

(127)

	450	460	470	480	490	500
570	+	+	+	+	+	+
580	+	+	+	+	+	+
590	+	+	+	+	+	+
600	+	+	+	+	+	+
610	+	+	+	+	+	+
620	+	+	+	+	+	+
630	+	+	+	+	+	+
640	+	+	+	+	+	+

(129)



(130)



	10										20										30										40										50									
640																																																		
650																																																		
660																																																		
670																																																		
680																																																		
690																																																		
700																																																		
710																																																		

	50	60	70	80	90	100
640	...	...	...	...	...	...
650	...	...	...	...	...	...
660	...	...	...	...	...	...
670	...	...	...	...	...	...
680	...	...	...	...	...	...
690	...	...	...	...	...	...
700	...	...	...	...	...	...
710	...	...	...	...	...	...

	100	110	120	130	140	150
640						
650						
660						
670						
680						
690						
700						
710						

	150	160	170	180	190	200
640	+	+	+	+	+	+
650	+	+	+	+	+	+
660	+	+	+	+	+	+
670	+	+	+	+	+	+
680	+	+	+	+	+	+
690	+	+	+	+	+	+
700	+	+	+	+	+	+
710	+	+	+	+	+	+

(136)

	250	260	270	280	290	300
640	+	+	+	+	+	+
650	+	+	+	+	+	+
660	+	+	+	+	+	+
670	+	+	+	+	+	+
680	+	+	+	+	+	+
690	+	+	+	+	+	+
700	+	+	+	+	+	+
710	+	+	+	+	+	+



	300	310	320	330	340	350
640	⬆	⬆	⬆	⬆	⬆	⬆
650	⬆	⬆	⬆	⬆	⬆	⬆
660	⬆	⬆	⬆	⬆	⬆	⬆
670	⬆	⬆	⬆	⬆	⬆	⬆
680	⬆	⬆	⬆	⬆	⬆	⬆
690	⬆	⬆	⬆	⬆	⬆	⬆
700	⬆	⬆	⬆	⬆	⬆	⬆
710	⬆	⬆	⬆	⬆	⬆	⬆

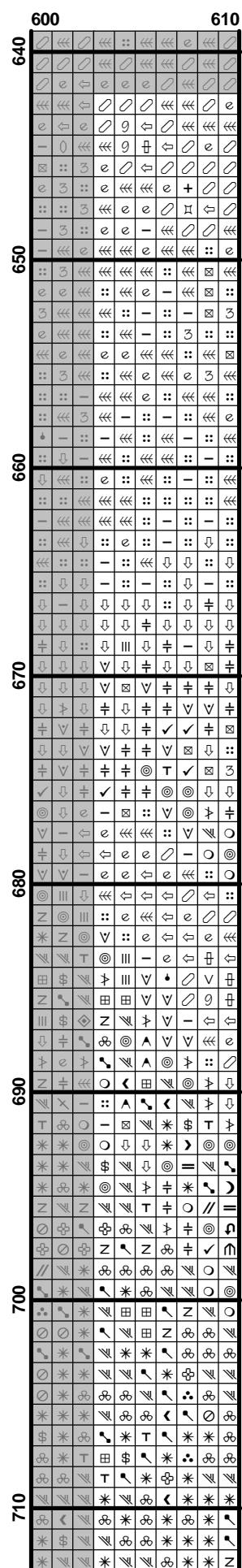
(139)

(140)

	450	460	470	480	490	500
640	○	○	○	○	○	○
650	○	○	○	○	○	○
660	○	○	○	○	○	○
670	○	○	○	○	○	○
680	○	○	○	○	○	○
690	○	○	○	○	○	○
700	○	○	○	○	○	○
710	○	○	○	○	○	○

(142)

	550	560	570	580	590	600
640	...	...	...	...	...	...
650	...	...	...	...	...	...
660	...	...	...	...	...	...
670	...	...	...	...	...	...
680	...	...	...	...	...	...
690	...	...	...	...	...	...
700	...	...	...	...	...	...
710	...	...	...	...	...	...



	10	20	30	40	50
710	○	○	○	○	○
720	○	○	○	○	○
730	○	○	○	○	○
740	○	○	○	○	○
750	○	○	○	○	○
760	○	○	○	○	○
770	○	○	○	○	○
780	○	○	○	○	○



	50	60	70	80	90	100
710						
720						
730						
740						
750						
760						
770						
780						

	100	110	120	130	140	150
710	T X T	O X X	O X X	O X X	O X X	O X X
720	X X X	X X X	X X X	X X X	X X X	X X X
730	X X X	X X X	X X X	X X X	X X X	X X X
740	X X X	X X X	X X X	X X X	X X X	X X X
750	X X X	X X X	X X X	X X X	X X X	X X X
760	X X X	X X X	X X X	X X X	X X X	X X X
770	X X X	X X X	X X X	X X X	X X X	X X X
780	X X X	X X X	X X X	X X X	X X X	X X X

710	150	160	170	180	190	200
710	150	160	170	180	190	200
720	720					
730	730					
740	740					
750	750					
760	760					
770	770					
780	780					

710	200	210	220	230	240	250
710	+	+	+	+	+	+
720	+	+	+	+	+	+
730	+	+	+	+	+	+
740	+	+	+	+	+	+
750	+	+	+	+	+	+
760	+	+	+	+	+	+
770	+	+	+	+	+	+
780	+	+	+	+	+	+

710	250	260	270	280	290	300
710	X	T	X	X	X	X
720	X	X	X	X	X	X
730	X	X	X	X	X	X
740	X	X	X	X	X	X
750	X	X	X	X	X	X
760	X	X	X	X	X	X
770	X	X	X	X	X	X
780	X	X	X	X	X	X

710	300	310	320	330	340	350
720	730	740	750	760	770	780

(152)

710	400	410	420	430	440	450
710	400	410	420	430	440	450
720						
730						
740						
750						
760						
770						
780						



710	450	460	470	480	490	500
710	450	460	470	480	490	500
720	450	460	470	480	490	500
730	450	460	470	480	490	500
740	450	460	470	480	490	500
750	450	460	470	480	490	500
760	450	460	470	480	490	500
770	450	460	470	480	490	500
780	450	460	470	480	490	500

710	500	510	520	530	540	550
710	500	510	520	530	540	550
720	500	510	520	530	540	550
730	500	510	520	530	540	550
740	500	510	520	530	540	550
750	500	510	520	530	540	550
760	500	510	520	530	540	550
770	500	510	520	530	540	550
780	500	510	520	530	540	550

710	550	560	570	580	590	600
710	550	560	570	580	590	600
720	550	560	570	580	590	600
730	550	560	570	580	590	600
740	550	560	570	580	590	600
750	550	560	570	580	590	600
760	550	560	570	580	590	600
770	550	560	570	580	590	600
780	550	560	570	580	590	600

(156)

(158)

50	60	70	80	90	100
790	800	810	820	830	840
850					

	100	110	120	130	140	150
790	田	田	田	田	田	田
800	田	田	田	田	田	田
810	田	田	田	田	田	田
820	田	田	田	田	田	田
830	田	田	田	田	田	田
840	田	田	田	田	田	田
850	田	田	田	田	田	田

(161)



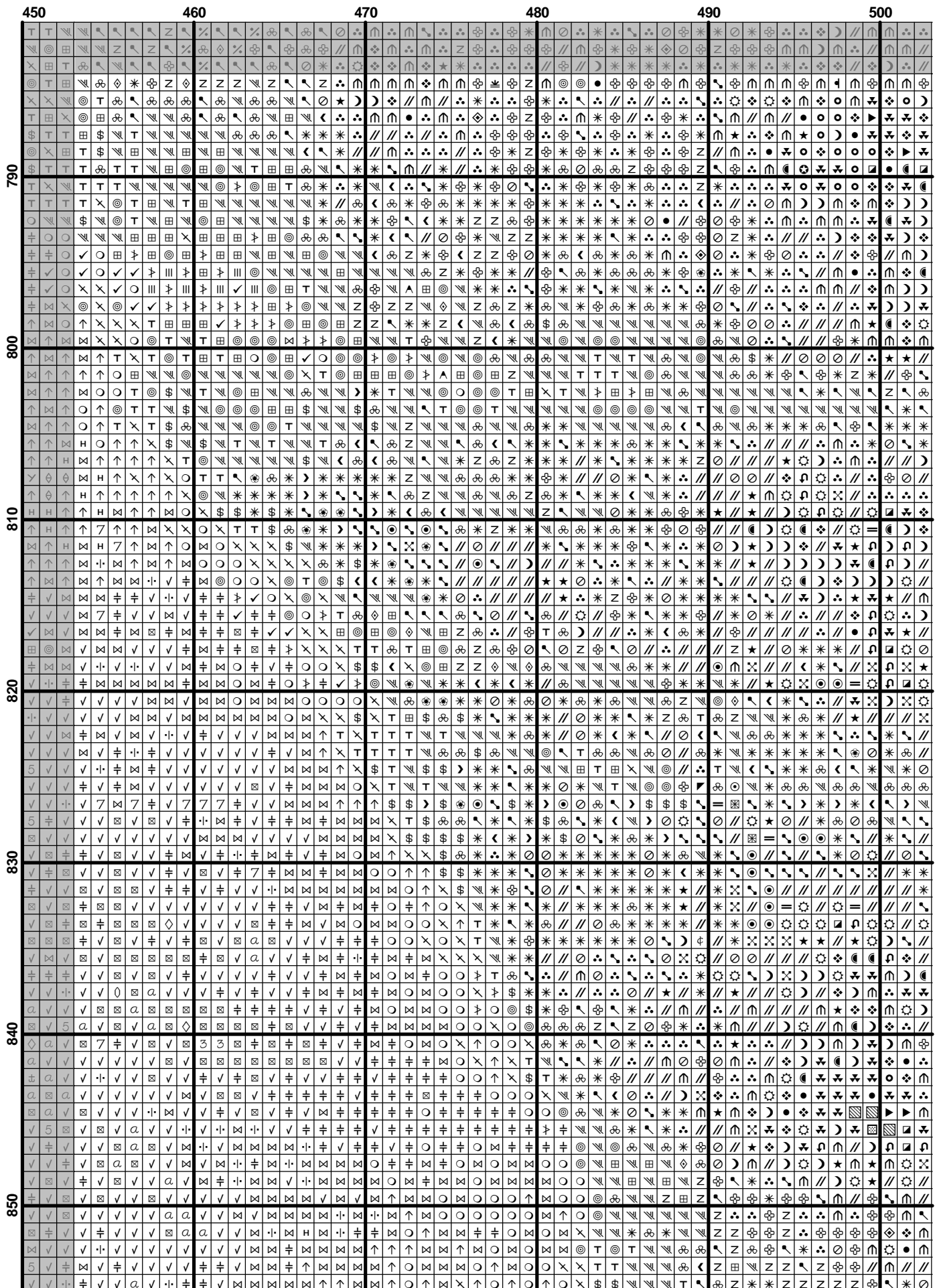
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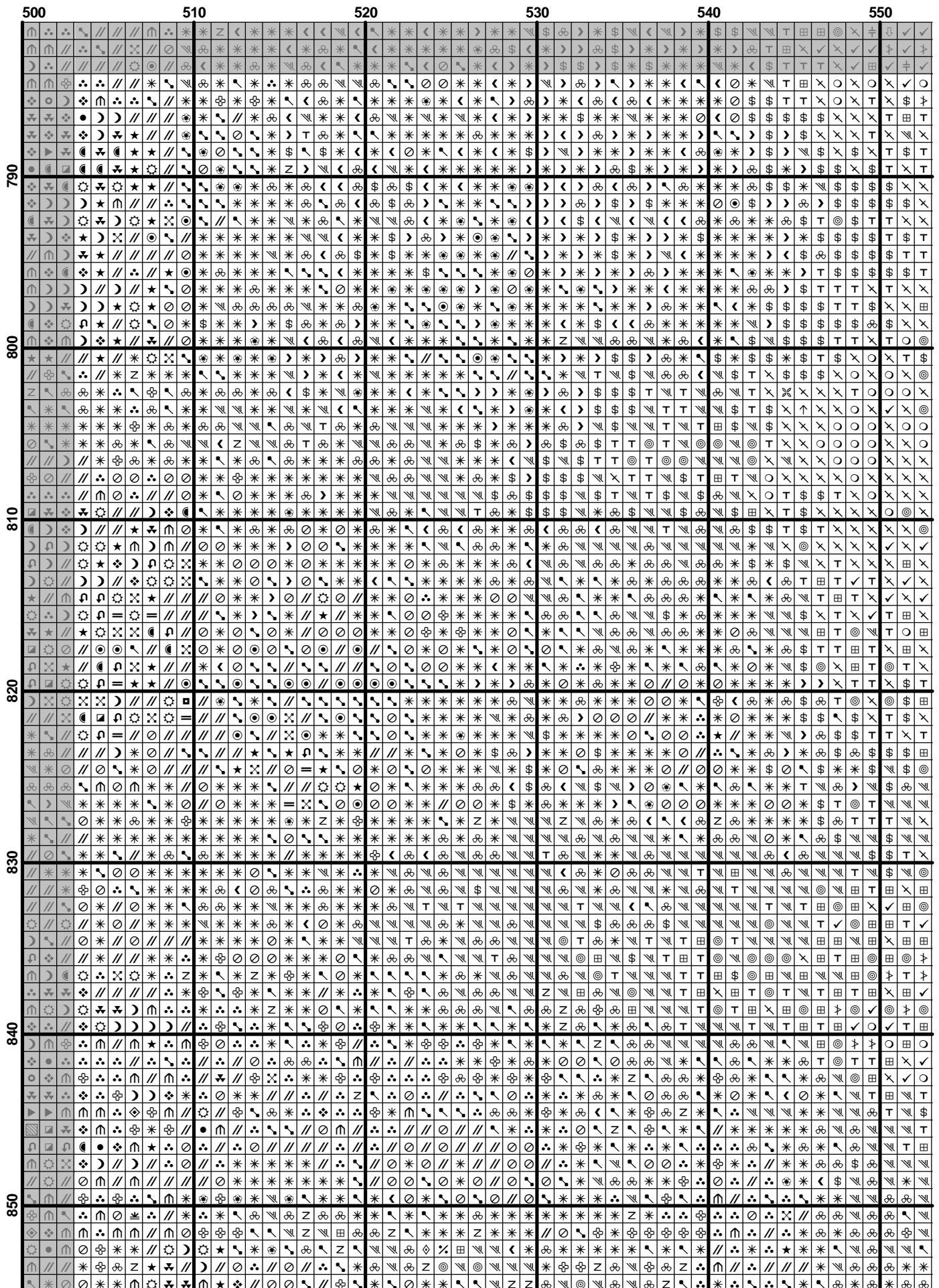
	250	260	270	280	290	300
790	X	X	X	X	X	X
800	X	X	X	X	X	X
810	X	X	X	X	X	X
820	X	X	X	X	X	X
830	X	X	X	X	X	X
840	X	X	X	X	X	X
850	X	X	X	X	X	X
860	X	X	X	X	X	X
870	X	X	X	X	X	X
880	X	X	X	X	X	X
890	X	X	X	X	X	X
900	X	X	X	X	X	X
910	X	X	X	X	X	X
920	X	X	X	X	X	X
930	X	X	X	X	X	X
940	X	X	X	X	X	X
950	X	X	X	X	X	X
960	X	X	X	X	X	X
970	X	X	X	X	X	X
980	X	X	X	X	X	X
990	X	X	X	X	X	X
1000	X	X	X	X	X	X
1010	X	X	X	X	X	X
1020	X	X	X	X	X	X
1030	X	X	X	X	X	X
1040	X	X	X	X	X	X
1050	X	X	X	X	X	X
1060	X	X	X	X	X	X
1070	X	X	X	X	X	X
1080	X	X	X	X	X	X
1090	X	X	X	X	X	X
1100	X	X	X	X	X	X
1110	X	X	X	X	X	X
1120	X	X	X	X	X	X
1130	X	X	X	X	X	X
1140	X	X	X	X	X	X
1150	X	X	X	X	X	X
1160	X	X	X	X	X	X
1170	X	X	X	X	X	X
1180	X	X	X	X	X	X
1190	X	X	X	X	X	X
1200	X	X	X	X	X	X
1210	X	X	X	X	X	X
1220	X	X	X	X	X	X
1230	X	X	X	X	X	X
1240	X	X	X	X	X	X
1250	X	X	X	X	X	X
1260	X	X	X	X	X	X
1270	X	X	X	X	X	X
1280	X	X	X	X	X	X
1290	X	X	X	X	X	X
1300	X	X	X	X	X	X
1310	X	X	X	X	X	X
1320	X	X	X	X	X	X
1330	X	X	X	X	X	X
1340	X	X	X	X	X	X
1350	X	X	X	X	X	X
1360	X	X	X	X	X	X
1370	X	X	X	X	X	X
1380	X	X	X	X	X	X
1390	X	X	X	X	X	X
1400	X	X	X	X	X	X
1410	X	X	X	X	X	X
1420	X	X	X	X	X	X
1430	X	X	X	X	X	X
1440	X	X	X	X	X	X
1450	X	X	X	X	X	X
1460	X	X	X	X	X	X
1470	X	X	X	X	X	X
1480	X	X	X	X	X	X
1490	X	X	X	X	X	X
1500	X	X	X	X	X	X

	300	310	320	330	340	350
790	300	310	320	330	340	350
800	800	800	800	800	800	800
810	810	810	810	810	810	810
820	820	820	820	820	820	820
830	830	830	830	830	830	830
840	840	840	840	840	840	840
850	850	850	850	850	850	850

(165)

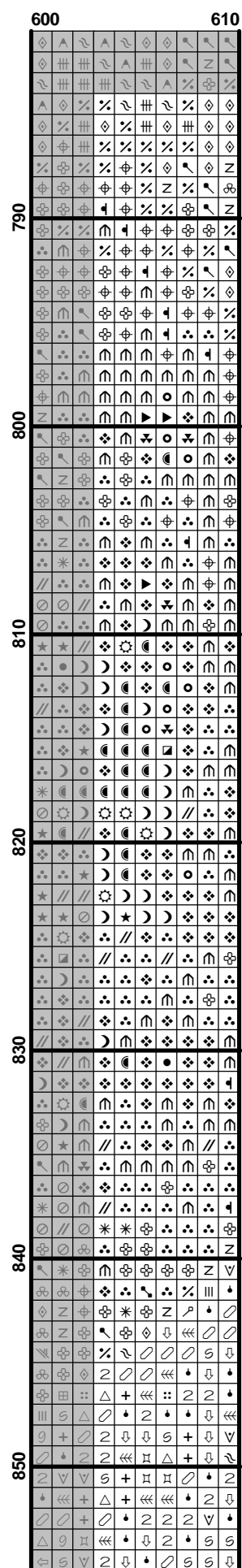
[illegible]





(168)





[illegible]

	50	60	70	80	90	100
860						
870						
880						
890						

[illegible]

[illegible]

[illegible]

	250	260	270	280	290	300
860	+	+	+	+	+	+
870	+	+	+	+	+	+
880	+	+	+	+	+	+
890	+	+	+	+	+	+

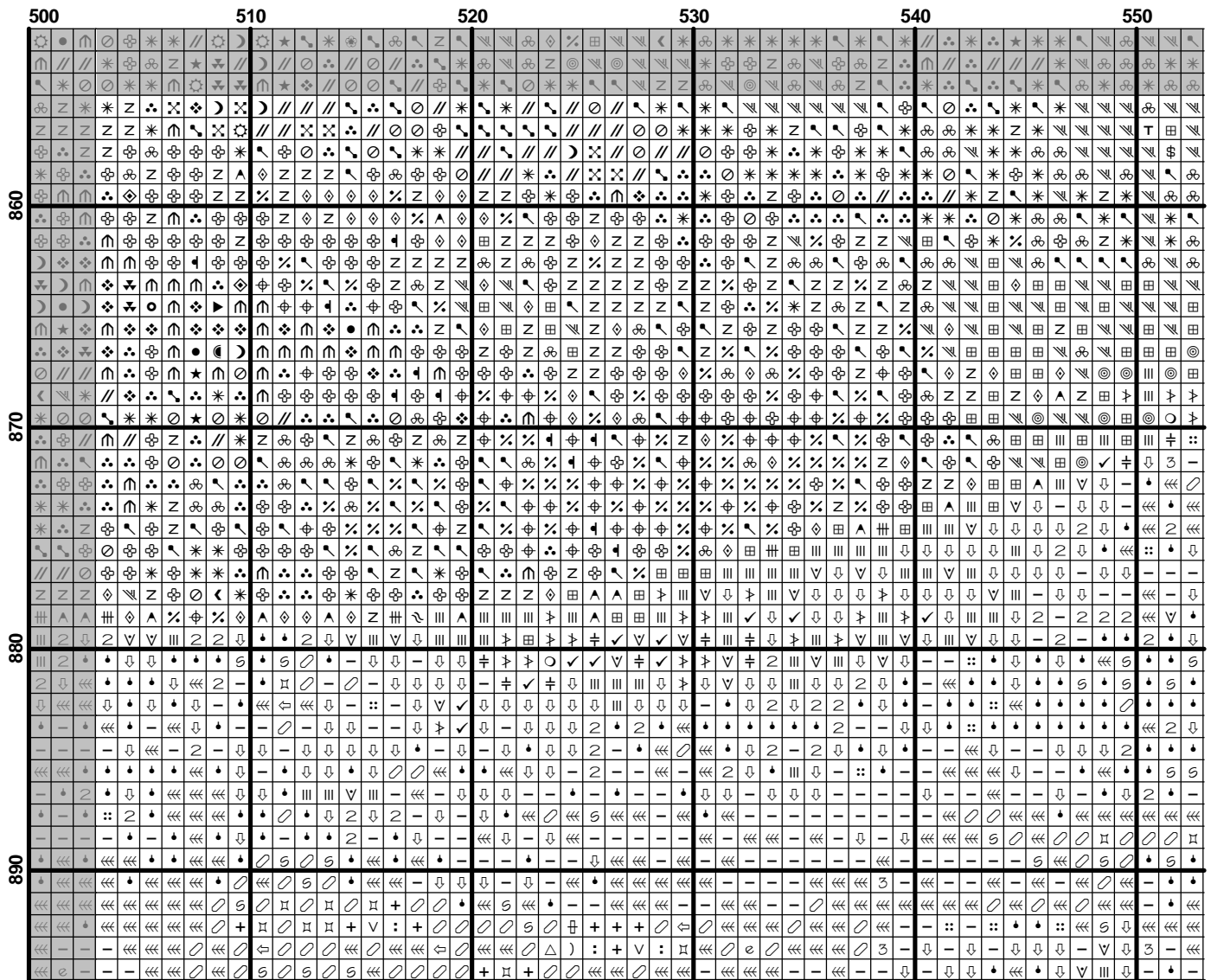
[illegible]



[illegible]

[illegible]

	450	460	470	480	490	500
860	5	5	5	5	5	5
870	5	5	5	5	5	5
880	5	5	5	5	5	5
890	5	5	5	5	5	5



	550										560										570										580										590										600																																																	
860	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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880	890