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1385 Autumn Reflections



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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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Autumn Reflections

Stitch Count	
Horizontal:	800
Vertical:	556

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:	145	57.05	101	39.69	127	49.92	89	34.73	113	44.375	79	30.875
Including Margins:	161	64	117	46	143	56	105	41	129	51	95	37
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	203	79.87	141	55.56	169	66.55	117	46.3	84	33.27	58	23.15
Including Margins:	219	86	157	62	185	73	133	53	100	40	74	30
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	81	31.94	56	22.22	78	30.71	54	21.37	75	29.58	52	20.58
Including Margins:	97	38	72	29	94	37	70	28	91	36	68	27
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	72	28.52	50	19.84	67	26.62	47	18.52	63	24.95	44	17.36
Including Margins:	88	35	66	26	83	33	63	25	79	31	60	24

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
⬤	356	Terra Cotta-MD
■	371	Mustard
◐	407	Desert Sand-DK
?	415	Pearl Gray
▲	420	Hazelnut Brown-DK
■	436	Tan
—	437	Tan-LT
▽	452	Shell Gray-MD
■	500	Blue Green-VY DK
◐	518	Wedgewood-LT
◐	522	Fern Green
∴	524	Fern Green-VY LT
▨	535	Ash Gray-VY LT
⬤	543	Beige Brown-UL VY LT
◐	611	Drab Brown
⊞	612	Drab Brown-LT
◊	613	Drab Brown-VY LT
+	632	Desert Sand-UL VY DK
◐	645	Beaver Gray-VY DK
◊	646	Beaver Gray-DK
⊞	647	Beaver Gray-MD
≡	648	Beaver Gray-LT
◊	676	Old Gold-LT
◐	677	Old Gold-VY LT
⊞	680	Old Gold-DK
∞	712	Cream
⊞	730	Olive Green-VY DK
⊞	734	Olive Green-LT
◐	738	Tan-VY LT
◊	739	Tan-UL VY LT
1	746	Off White
▷	762	Pearl Gray-VY LT
♡	775	Baby Blue-VY LT
◐	780	Topaz-UL VY DK
⊞	807	Peacock Blue
⊞	813	Blue-LT
n	819	Baby Pink-LT
e	827	Blue-VY LT
⊞	828	Blue-UL VY LT
▲	831	Golden Olive-MD
◐	832	Golden Olive

田	833	Golden Olive-LT
7	834	Golden Olive-VY LT
♥	838	Beige Brown-VY DK
◐	869	Hazelnut Brown-VY DK
//	926	Gray Green-MD
∞	927	Gray Green-LT
⑧	935	Avocado Green-DK
†	975	Golden Brown-DK
*	3012	Khaki Green-MD
↑	3013	Khaki Green-LT
◆	3021	Brown Gray-VY DK
●	3031	Mocha Brown-VY DK
▲	3045	Yellow Beige-DK
5	3046	Yellow Beige-MD
⊞	3052	Green Gray-MD
L	3072	Beaver Gray-VY LT
✕	3346	Hunter Green
◐	3362	Pine Green-DK
✕	3363	Pine Green-MD
⊞	3726	Antique Mauve-DK
3	3752	Antique Blue-VY LT
⊞	3755	Baby Blue
m	3766	Peacock Blue-LT
⊞	3768	Gray Green-DK
o	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
⊞	3799	Pewter Gray-VY DK
⋮	3802	Antique Mauve-VY DK
5	3820	Straw-DK
^	3823	Yellow-UL Pale
⊞	3828	Hazelnut Brown
✕	3829	Old Gold-VY DK
*	3860	Cocoa
Z	3861	Cocoa-LT
♦	3862	Mocha Beige-DK
u	3865	Winter White
)	3866	Mocha Brown-UL VY LT
ι	Ecru	Ecru

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
\$	647	Beaver Gray-MD	3861	Cocoa-LT
⊞	927	Gray Green-LT	928	Gray Green-VY LT
◐	3021	Brown Gray-VY DK	3787	Brown Gray-DK
◊	356	Terra Cotta-MD	3721	Shell Pink-DK
◐	356	Terra Cotta-MD	632	Desert Sand-UL VY DK

☞	838	Beige Brown-VY DK	3021	Brown Gray-VY DK
✱	839	Beige Brown-DK	3787	Brown Gray-DK
☼	632	Desert Sand-UL VY DK	3802	Antique Mauve-VY DK
☼	3021	Brown Gray-VY DK	3802	Antique Mauve-VY DK
☼	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
☼	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
☼	500	Blue Green-VY DK	3031	Mocha Brown-VY DK
☼	420	Hazelnut Brown-DK	975	Golden Brown-DK
☼	712	Cream	3072	Beaver Gray-VY LT
☼	369	Pistachio Green-VY LT	648	Beaver Gray-LT
☼	712	Cream	3866	Mocha Brown-UL VY LT
☼	646	Beaver Gray-DK	522	Fern Green
☼	500	Blue Green-VY DK	3799	Pewter Gray-VY DK
☼	839	Beige Brown-DK	3021	Brown Gray-VY DK
✱	838	Beige Brown-VY DK	839	Beige Brown-DK
☼	356	Terra Cotta-MD	3828	Hazelnut Brown
☼	221	Shell Pink-VY DK	632	Desert Sand-UL VY DK
☼	3021	Brown Gray-VY DK	3362	Pine Green-DK
✱	782	Topaz-DK	833	Golden Olive-LT
☼	613	Drab Brown-VY LT	524	Fern Green-VY LT
☼	318	Steel Gray-LT	928	Gray Green-VY LT
☼	632	Desert Sand-UL VY DK	3860	Cocoa
☼	415	Pearl Gray	932	Antique Blue-LT
☼	927	Gray Green-LT	3849	Teal Green-LT
☼	3363	Pine Green-MD	645	Beaver Gray-VY DK
☼	833	Golden Olive-LT	3820	Straw-DK
☼	3828	Hazelnut Brown	3830	Terra Cotta-MD
☼	800	Delft Blue-Pale	828	Blue-UL VY LT
☼	827	Blue-VY LT	3752	Antique Blue-VY LT
☼	747	Sky Blue-VY LT	3756	Baby Blue-UL VY LT
☼	747	Sky Blue-VY LT	762	Pearl Gray-VY LT
☼	712	Cream	747	Sky Blue-VY LT
☼	712	Cream	746	Off White
☼	746	Off White	747	Sky Blue-VY LT
☼	3072	Beaver Gray-VY LT	775	Baby Blue-VY LT
☼	747	Sky Blue-VY LT	775	Baby Blue-VY LT
☼	747	Sky Blue-VY LT	3865	Winter White
☼	3766	Peacock Blue-LT	827	Blue-VY LT
☼	828	Blue-UL VY LT	3752	Antique Blue-VY LT
☼	3072	Beaver Gray-VY LT	3752	Antique Blue-VY LT
☼	415	Pearl Gray	3072	Beaver Gray-VY LT
☼	415	Pearl Gray	3752	Antique Blue-VY LT
☼	415	Pearl Gray	3766	Peacock Blue-LT
☼	813	Blue-LT	3766	Peacock Blue-LT
☼	415	Pearl Gray	928	Gray Green-VY LT
☼	813	Blue-LT	932	Antique Blue-LT
☼	712	Cream	775	Baby Blue-VY LT
☼	371	Mustard	3772	Desert Sand-VY DK
☼	407	Desert Sand-DK	3782	Mocha Brown-LT
☼	839	Beige Brown-DK	632	Desert Sand-UL VY DK
☼	3721	Shell Pink-DK	632	Desert Sand-UL VY DK
☼	356	Terra Cotta-MD	780	Topaz-UL VY DK
☼	3012	Khaki Green-MD	3787	Brown Gray-DK
☼	838	Beige Brown-VY DK	975	Golden Brown-DK
☼	975	Golden Brown-DK	3772	Desert Sand-VY DK
☼	646	Beaver Gray-DK	3787	Brown Gray-DK
☼	730	Olive Green-VY DK	3052	Green Gray-MD
☼	371	Mustard	3052	Green Gray-MD
☼	831	Golden Olive-MD	869	Hazelnut Brown-VY DK

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*	839	Beige Brown-DK	3052	Green Gray-MD
▲	839	Beige Brown-DK	371	Mustard
∩	3052	Green Gray-MD	3782	Mocha Brown-LT
○	676	Old Gold-LT	680	Old Gold-DK
◀	831	Golden Olive-MD	3045	Yellow Beige-DK
▲	831	Golden Olive-MD	838	Beige Brown-VY DK
⚡	730	Olive Green-VY DK	371	Mustard
○	730	Olive Green-VY DK	831	Golden Olive-MD
↖	3045	Yellow Beige-DK	3347	Yellow Green-MD
↗	734	Olive Green-LT	831	Golden Olive-MD
■	838	Beige Brown-VY DK	730	Olive Green-VY DK
■	3052	Green Gray-MD	838	Beige Brown-VY DK
✕	832	Golden Olive	734	Olive Green-LT
⊞	831	Golden Olive-MD	832	Golden Olive
⊗	3849	Teal Green-LT	926	Gray Green-MD
#	3813	Blue Green-LT	647	Beaver Gray-MD
➔	3768	Gray Green-DK	3799	Pewter Gray-VY DK
=	926	Gray Green-MD	3768	Gray Green-DK
	733	Olive Green-MD	734	Olive Green-LT
⊕	356	Terra Cotta-MD	975	Golden Brown-DK
◻	3013	Khaki Green-LT	647	Beaver Gray-MD
⦿	415	Pearl Gray	369	Pistachio Green-VY LT
⦿	3012	Khaki Green-MD	3347	Yellow Green-MD
▼	3787	Brown Gray-DK	3802	Antique Mauve-VY DK
⬇	3021	Brown Gray-VY DK	535	Ash Gray-VY LT
⬇	535	Ash Gray-VY LT	3802	Antique Mauve-VY DK
⚡	680	Old Gold-DK	833	Golden Olive-LT
⚡	680	Old Gold-DK	3820	Straw-DK
	648	Beaver Gray-LT	3813	Blue Green-LT
×	932	Antique Blue-LT	993	Aquamarine-LT
•	415	Pearl Gray	993	Aquamarine-LT
⦿	927	Gray Green-LT	932	Antique Blue-LT
⦿	369	Pistachio Green-VY LT	928	Gray Green-VY LT
⦿	928	Gray Green-VY LT	993	Aquamarine-LT
∨	369	Pistachio Green-VY LT	3072	Beaver Gray-VY LT
:	543	Beige Brown-UL VY LT	3072	Beaver Gray-VY LT
=	369	Pistachio Green-VY LT	543	Beige Brown-UL VY LT
•	648	Beaver Gray-LT	928	Gray Green-VY LT
△	543	Beige Brown-UL VY LT	613	Drab Brown-VY LT
⌂	535	Ash Gray-VY LT	3799	Pewter Gray-VY DK
∨	927	Gray Green-LT	3813	Blue Green-LT
L	732	Olive Green	3012	Khaki Green-MD
⬆	730	Olive Green-VY DK	3347	Yellow Green-MD
⦿	3347	Yellow Green-MD	3363	Pine Green-MD
⬆	3362	Pine Green-DK	3346	Hunter Green
■	356	Terra Cotta-MD	221	Shell Pink-VY DK
▲	3362	Pine Green-DK	3363	Pine Green-MD
⦿	3860	Cocoa	3802	Antique Mauve-VY DK
⦿	3726	Antique Mauve-DK	3802	Antique Mauve-VY DK
α	415	Pearl Gray	543	Beige Brown-UL VY LT
/	928	Gray Green-VY LT	3072	Beaver Gray-VY LT
○	993	Aquamarine-LT	3072	Beaver Gray-VY LT
••	932	Antique Blue-LT	3766	Peacock Blue-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	
221	Shell Pink-VY DK	93	36	89	35	80	31
318	Steel Gray-LT	98	38	93	36	84	33
356	Terra Cotta-MD	309	121	294	115	265	104
369	Pistachio Green-VY LT	702	276	669	263	602	237
371	Mustard	2101	827	2001	787	1800	708
407	Desert Sand-DK	157	61	149	58	134	52
415	Pearl Gray	4176	1644	3977	1565	3580	1409
420	Hazelnut Brown-DK	692	272	659	259	593	233
436	Tan	125	49	119	46	107	42
437	Tan-LT	185	72	177	69	159	62
452	Shell Gray-MD	134	52	128	50	115	45
500	Blue Green-VY DK	7261	2858	6915	2722	6223	2450
518	Wedgewood-LT	215	84	205	80	185	72
522	Fern Green	328	129	313	123	281	110
524	Fern Green-VY LT	478	188	455	179	410	161
535	Ash Gray-VY LT	2797	1101	2664	1048	2398	944
543	Beige Brown-UL VY LT	560	220	533	209	480	188
611	Drab Brown	1398	550	1331	524	1198	471
612	Drab Brown-LT	675	265	643	253	579	227
613	Drab Brown-VY LT	687	270	654	257	589	231
632	Desert Sand-UL VY DK	1827	719	1740	685	1566	616
645	Beaver Gray-VY DK	599	235	571	224	513	201
646	Beaver Gray-DK	1034	407	985	387	886	348
647	Beaver Gray-MD	701	275	667	262	601	236
648	Beaver Gray-LT	546	214	520	204	468	184
676	Old Gold-LT	176	69	167	65	151	59
677	Old Gold-VY LT	94	37	90	35	81	31
680	Old Gold-DK	293	115	279	109	251	98
712	Cream	4590	1807	4372	1721	3934	1548
730	Olive Green-VY DK	1780	700	1695	667	1525	600
732	Olive Green	140	55	133	52	120	47
733	Olive Green-MD	71	27	68	26	61	24
734	Olive Green-LT	508	200	484	190	436	171
738	Tan-VY LT	307	120	293	115	263	103
739	Tan-UL VY LT	165	64	158	62	142	55
746	Off White	2510	988	2391	941	2151	846
747	Sky Blue-VY LT	1421	559	1353	532	1218	479
762	Pearl Gray-VY LT	360	141	343	135	308	121
775	Baby Blue-VY LT	4629	1822	4408	1735	3968	1562
780	Topaz-UL VY DK	57	22	55	21	49	19
782	Topaz-DK	34	13	32	12	29	11
800	Delft Blue-Pale	582	229	554	218	499	196
807	Peacock Blue	104	40	99	38	89	35
813	Blue-LT	984	387	937	368	843	331
819	Baby Pink-LT	81	31	77	30	69	27
827	Blue-VY LT	1188	467	1132	445	1019	401
828	Blue-UL VY LT	4723	1859	4498	1770	4048	1593
831	Golden Olive-MD	1708	672	1627	640	1464	576
832	Golden Olive	385	151	367	144	330	129
833	Golden Olive-LT	260	102	248	97	223	87
834	Golden Olive-VY LT	216	85	206	81	185	72
838	Beige Brown-VY DK	3545	1395	3376	1329	3039	1196
839	Beige Brown-DK	2937	1156	2798	1101	2518	991

869	Hazelnut Brown-VY DK	600	236	572	225	514	202
926	Gray Green-MD	246	96	234	92	211	83
927	Gray Green-LT	325	127	310	122	279	109
928	Gray Green-VY LT	1767	695	1682	662	1514	596
932	Antique Blue-LT	1074	422	1022	402	920	362
935	Avocado Green-DK	307	120	292	114	263	103
975	Golden Brown-DK	624	245	594	233	535	210
993	Aquamarine-LT	968	381	922	362	830	326
3012	Khaki Green-MD	1162	457	1106	435	996	392
3013	Khaki Green-LT	781	307	744	292	670	263
3021	Brown Gray-VY DK	6968	2743	6636	2612	5972	2351
3031	Mocha Brown-VY DK	2938	1156	2798	1101	2518	991
3045	Yellow Beige-DK	973	383	927	364	834	328
3046	Yellow Beige-MD	185	72	176	69	158	62
3052	Green Gray-MD	2993	1178	2851	1122	2566	1010
3072	Beaver Gray-VY LT	8014	3155	7633	3005	6869	2704
3346	Hunter Green	393	154	374	147	337	132
3347	Yellow Green-MD	506	199	482	189	434	170
3362	Pine Green-DK	1238	487	1179	464	1061	417
3363	Pine Green-MD	674	265	642	252	578	227
3721	Shell Pink-DK	119	46	113	44	102	40
3726	Antique Mauve-DK	119	46	114	44	102	40
3752	Antique Blue-VY LT	3015	1187	2871	1130	2584	1017
3755	Baby Blue	68	26	65	25	58	22
3756	Baby Blue-UL VY LT	116	45	111	43	100	39
3766	Peacock Blue-LT	2184	859	2080	818	1872	737
3768	Gray Green-DK	300	118	285	112	257	101
3770	Tawny-VY LT	192	75	183	72	164	64
3772	Desert Sand-VY DK	949	373	904	355	814	320
3774	Desert Sand-VY LT	85	33	81	31	73	28
3781	Mocha Brown-DK	938	369	893	351	804	316
3782	Mocha Brown-LT	834	328	794	312	715	281
3787	Brown Gray-DK	3013	1186	2870	1129	2583	1016
3799	Pewter Gray-VY DK	11423	4497	10879	4283	9791	3854
3802	Antique Mauve-VY DK	2095	824	1995	785	1796	707
3813	Blue Green-LT	242	95	230	90	207	81
3820	Straw-DK	114	44	108	42	97	38
3823	Yellow-UL Pale	205	80	195	76	176	69
3828	Hazelnut Brown	573	225	545	214	491	193
3829	Old Gold-VY DK	110	43	104	40	94	37
3830	Terra Cotta-MD	74	29	70	27	63	24
3849	Teal Green-LT	68	26	65	25	58	22
3860	Cocoa	978	385	932	366	838	329
3861	Cocoa-LT	345	135	328	129	295	116
3862	Mocha Beige-DK	1127	443	1073	422	966	380
3865	Winter White	558	219	532	209	479	188
3866	Mocha Brown-UL VY LT	812	319	773	304	696	274
Ecru	Ecru	363	142	345	135	311	122

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	
221	Shell Pink-VY DK	93	36	89	35	80	31
318	Steel Gray-LT	98	38	93	36	84	33
356	Terra Cotta-MD	309	121	294	115	265	104
369	Pistachio Green-VY LT	702	276	669	263	602	237

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371	Mustard	2101	827	2001	787	1800	708
407	Desert Sand-DK	157	61	149	58	134	52
415	Pearl Gray	4176	1644	3977	1565	3580	1409
420	Hazelnut Brown-DK	692	272	659	259	593	233
436	Tan	125	49	119	46	107	42
437	Tan-LT	185	72	177	69	159	62
452	Shell Gray-MD	134	52	128	50	115	45
500	Blue Green-VY DK	7261	2858	6915	2722	6223	2450
518	Wedgewood-LT	215	84	205	80	185	72
522	Fern Green	328	129	313	123	281	110
524	Fern Green-VY LT	478	188	455	179	410	161
535	Ash Gray-VY LT	2797	1101	2664	1048	2398	944
543	Beige Brown-UL VY LT	560	220	533	209	480	188
611	Drab Brown	1398	550	1331	524	1198	471
612	Drab Brown-LT	675	265	643	253	579	227
613	Drab Brown-VY LT	687	270	654	257	589	231
632	Desert Sand-UL VY DK	1827	719	1740	685	1566	616
645	Beaver Gray-VY DK	599	235	571	224	513	201
646	Beaver Gray-DK	1034	407	985	387	886	348
647	Beaver Gray-MD	701	275	667	262	601	236
648	Beaver Gray-LT	546	214	520	204	468	184
676	Old Gold-LT	176	69	167	65	151	59
677	Old Gold-VY LT	94	37	90	35	81	31
680	Old Gold-DK	293	115	279	109	251	98
712	Cream	4590	1807	4372	1721	3934	1548
730	Olive Green-VY DK	1780	700	1695	667	1525	600
732	Olive Green	140	55	133	52	120	47
733	Olive Green-MD	71	27	68	26	61	24
734	Olive Green-LT	508	200	484	190	436	171
738	Tan-VY LT	307	120	293	115	263	103
739	Tan-UL VY LT	165	64	158	62	142	55
746	Off White	2510	988	2391	941	2151	846
747	Sky Blue-VY LT	1421	559	1353	532	1218	479
762	Pearl Gray-VY LT	360	141	343	135	308	121
775	Baby Blue-VY LT	4629	1822	4408	1735	3968	1562
780	Topaz-UL VY DK	57	22	55	21	49	19
782	Topaz-DK	34	13	32	12	29	11
800	Delft Blue-Pale	582	229	554	218	499	196
807	Peacock Blue	104	40	99	38	89	35
813	Blue-LT	984	387	937	368	843	331
819	Baby Pink-LT	81	31	77	30	69	27
827	Blue-VY LT	1188	467	1132	445	1019	401
828	Blue-UL VY LT	4723	1859	4498	1770	4048	1593
831	Golden Olive-MD	1708	672	1627	640	1464	576
832	Golden Olive	385	151	367	144	330	129
833	Golden Olive-LT	260	102	248	97	223	87
834	Golden Olive-VY LT	216	85	206	81	185	72
838	Beige Brown-VY DK	3545	1395	3376	1329	3039	1196
839	Beige Brown-DK	2937	1156	2798	1101	2518	991
869	Hazelnut Brown-VY DK	600	236	572	225	514	202
926	Gray Green-MD	246	96	234	92	211	83
927	Gray Green-LT	325	127	310	122	279	109
928	Gray Green-VY LT	1767	695	1682	662	1514	596
932	Antique Blue-LT	1074	422	1022	402	920	362
935	Avocado Green-DK	307	120	292	114	263	103
975	Golden Brown-DK	624	245	594	233	535	210
993	Aquamarine-LT	968	381	922	362	830	326
3012	Khaki Green-MD	1162	457	1106	435	996	392
3013	Khaki Green-LT	781	307	744	292	670	263

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3021	Brown Gray-VY DK	6968	2743	6636	2612	5972	2351
3031	Mocha Brown-VY DK	2938	1156	2798	1101	2518	991
3045	Yellow Beige-DK	973	383	927	364	834	328
3046	Yellow Beige-MD	185	72	176	69	158	62
3052	Green Gray-MD	2993	1178	2851	1122	2566	1010
3072	Beaver Gray-VY LT	8014	3155	7633	3005	6869	2704
3346	Hunter Green	393	154	374	147	337	132
3347	Yellow Green-MD	506	199	482	189	434	170
3362	Pine Green-DK	1238	487	1179	464	1061	417
3363	Pine Green-MD	674	265	642	252	578	227
3721	Shell Pink-DK	119	46	113	44	102	40
3726	Antique Mauve-DK	119	46	114	44	102	40
3752	Antique Blue-VY LT	3015	1187	2871	1130	2584	1017
3755	Baby Blue	68	26	65	25	58	22
3756	Baby Blue-UL VY LT	116	45	111	43	100	39
3766	Peacock Blue-LT	2184	859	2080	818	1872	737
3768	Gray Green-DK	300	118	285	112	257	101
3770	Tawny-VY LT	192	75	183	72	164	64
3772	Desert Sand-VY DK	949	373	904	355	814	320
3774	Desert Sand-VY LT	85	33	81	31	73	28
3781	Mocha Brown-DK	938	369	893	351	804	316
3782	Mocha Brown-LT	834	328	794	312	715	281
3787	Brown Gray-DK	3013	1186	2870	1129	2583	1016
3799	Pewter Gray-VY DK	11423	4497	10879	4283	9791	3854
3802	Antique Mauve-VY DK	2095	824	1995	785	1796	707
3813	Blue Green-LT	242	95	230	90	207	81
3820	Straw-DK	114	44	108	42	97	38
3823	Yellow-UL Pale	205	80	195	76	176	69
3828	Hazelnut Brown	573	225	545	214	491	193
3829	Old Gold-VY DK	110	43	104	40	94	37
3830	Terra Cotta-MD	74	29	70	27	63	24
3849	Teal Green-LT	68	26	65	25	58	22
3860	Cocoa	978	385	932	366	838	329
3861	Cocoa-LT	345	135	328	129	295	116
3862	Mocha Beige-DK	1127	443	1073	422	966	380
3865	Winter White	558	219	532	209	479	188
3866	Mocha Brown-UL VY LT	812	319	773	304	696	274
Ecru	Ecru	363	142	345	135	311	122

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	58	22	55	21	53	21
318	Steel Gray-LT	60	24	58	23	56	22
356	Terra Cotta-MD	191	75	183	72	177	69
369	Pistachio Green-VY LT	433	171	417	164	401	158
371	Mustard	1296	510	1246	490	1200	472
407	Desert Sand-DK	96	37	93	36	89	35
415	Pearl Gray	2578	1014	2478	975	2387	939
420	Hazelnut Brown-DK	427	168	411	161	395	155
436	Tan	77	30	74	29	71	28
437	Tan-LT	114	45	110	43	106	41
452	Shell Gray-MD	83	32	80	31	77	30
500	Blue Green-VY DK	4481	1764	4308	1696	4149	1633
518	Wedgewood-LT	133	52	128	50	123	48
522	Fern Green	202	79	195	76	187	73

524	Fern Green-VY LT	295	116	284	111	273	107
535	Ash Gray-VY LT	1727	680	1660	654	1599	629
543	Beige Brown-UL VY LT	346	135	332	130	320	125
611	Drab Brown	863	339	829	326	799	314
612	Drab Brown-LT	417	163	401	157	386	151
613	Drab Brown-VY LT	424	166	408	160	393	154
632	Desert Sand-UL VY DK	1128	444	1084	426	1044	411
645	Beaver Gray-VY DK	369	145	355	139	342	134
646	Beaver Gray-DK	638	251	613	241	591	232
647	Beaver Gray-MD	433	170	416	163	401	157
648	Beaver Gray-LT	337	132	324	127	312	123
676	Old Gold-LT	109	42	105	41	101	39
677	Old Gold-VY LT	58	22	56	21	54	21
680	Old Gold-DK	181	71	174	68	167	65
712	Cream	2832	1115	2724	1072	2623	1032
730	Olive Green-VY DK	1098	432	1056	415	1017	400
732	Olive Green	86	34	83	33	80	31
733	Olive Green-MD	44	17	42	17	41	16
734	Olive Green-LT	314	123	302	118	291	114
738	Tan-VY LT	189	74	182	71	175	69
739	Tan-UL VY LT	102	40	98	38	95	37
746	Off White	1549	609	1489	586	1434	564
747	Sky Blue-VY LT	877	345	843	332	812	319
762	Pearl Gray-VY LT	222	87	213	84	205	81
775	Baby Blue-VY LT	2857	1125	2747	1081	2645	1041
780	Topaz-UL VY DK	35	14	34	13	33	13
782	Topaz-DK	21	8	20	8	19	7
800	Delft Blue-Pale	359	141	345	136	333	131
807	Peacock Blue	64	25	62	24	59	23
813	Blue-LT	607	238	584	229	562	221
819	Baby Pink-LT	50	19	48	19	46	18
827	Blue-VY LT	734	289	705	278	679	267
828	Blue-UL VY LT	2915	1147	2802	1103	2699	1062
831	Golden Olive-MD	1054	415	1014	399	976	384
832	Golden Olive	238	93	228	89	220	86
833	Golden Olive-LT	161	63	154	60	149	58
834	Golden Olive-VY LT	133	52	128	50	123	48
838	Beige Brown-VY DK	2188	861	2104	828	2026	797
839	Beige Brown-DK	1813	714	1743	686	1679	661
869	Hazelnut Brown-VY DK	370	145	356	140	343	135
926	Gray Green-MD	152	60	146	57	141	55
927	Gray Green-LT	201	78	193	75	186	73
928	Gray Green-VY LT	1090	429	1048	413	1009	397
932	Antique Blue-LT	662	261	637	251	613	241
935	Avocado Green-DK	189	74	182	71	175	69
975	Golden Brown-DK	385	151	370	145	357	140
993	Aquamarine-LT	598	235	575	226	553	217
3012	Khaki Green-MD	717	282	690	271	664	261
3013	Khaki Green-LT	482	189	464	182	447	175
3021	Brown Gray-VY DK	4300	1693	4134	1628	3981	1567
3031	Mocha Brown-VY DK	1813	714	1743	686	1679	661
3045	Yellow Beige-DK	600	236	577	227	556	219
3046	Yellow Beige-MD	114	45	109	43	105	41
3052	Green Gray-MD	1848	727	1776	699	1711	673
3072	Beaver Gray-VY LT	4946	1947	4755	1872	4579	1803
3346	Hunter Green	243	95	233	91	225	88
3347	Yellow Green-MD	312	122	300	118	289	113
3362	Pine Green-DK	764	300	735	289	707	278
3363	Pine Green-MD	416	163	400	157	385	151

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3721	Shell Pink-DK	73	29	71	28	68	27
3726	Antique Mauve-DK	73	29	71	28	68	27
3752	Antique Blue-VY LT	1860	732	1789	704	1723	678
3755	Baby Blue	42	16	40	15	39	15
3756	Baby Blue-UL VY LT	72	28	69	27	67	26
3766	Peacock Blue-LT	1348	531	1296	510	1248	491
3768	Gray Green-DK	185	73	178	70	171	67
3770	Tawny-VY LT	118	46	114	44	109	43
3772	Desert Sand-VY DK	586	230	564	222	543	213
3774	Desert Sand-VY LT	53	20	51	19	49	19
3781	Mocha Brown-DK	579	228	557	219	536	211
3782	Mocha Brown-LT	515	202	495	195	477	187
3787	Brown Gray-DK	1860	732	1788	703	1722	677
3799	Pewter Gray-VY DK	7050	2775	6778	2668	6527	2569
3802	Antique Mauve-VY DK	1293	509	1243	489	1197	471
3813	Blue Green-LT	149	58	143	56	138	54
3820	Straw-DK	70	27	67	26	65	25
3823	Yellow-UL Pale	127	50	122	48	117	46
3828	Hazelnut Brown	354	139	340	134	327	129
3829	Old Gold-VY DK	68	27	65	26	63	25
3830	Terra Cotta-MD	45	17	44	17	42	16
3849	Teal Green-LT	42	16	40	15	39	15
3860	Cocoa	603	237	580	228	559	219
3861	Cocoa-LT	212	84	204	80	197	77
3862	Mocha Beige-DK	696	274	669	263	644	253
3865	Winter White	345	135	332	130	319	125
3866	Mocha Brown-UL VY LT	501	197	482	190	464	183
Ecru	Ecru	224	88	215	84	207	81

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	51	20	48	19	45	17
318	Steel Gray-LT	54	21	50	20	47	19
356	Terra Cotta-MD	170	67	159	62	149	59
369	Pistachio Green-VY LT	387	152	361	142	339	133
371	Mustard	1157	455	1080	425	1013	398
407	Desert Sand-DK	86	33	80	31	75	29
415	Pearl Gray	2301	906	2148	845	2014	793
420	Hazelnut Brown-DK	381	150	356	140	334	131
436	Tan	69	27	64	25	60	24
437	Tan-LT	102	40	95	37	89	35
452	Shell Gray-MD	74	29	69	27	65	25
500	Blue Green-VY DK	4001	1575	3734	1470	3500	1378
518	Wedgewood-LT	119	46	111	43	104	41
522	Fern Green	181	71	169	66	158	62
524	Fern Green-VY LT	264	104	246	97	231	91
535	Ash Gray-VY LT	1542	607	1439	566	1349	531
543	Beige Brown-UL VY LT	309	121	288	113	270	106
611	Drab Brown	770	303	719	283	674	265
612	Drab Brown-LT	372	146	347	136	326	128
613	Drab Brown-VY LT	379	149	353	139	331	130
632	Desert Sand-UL VY DK	1007	396	940	370	881	347
645	Beaver Gray-VY DK	330	129	308	121	289	113
646	Beaver Gray-DK	570	224	532	209	498	196
647	Beaver Gray-MD	386	152	361	142	338	133

648	Beaver Gray-LT	301	118	281	110	263	104
676	Old Gold-LT	97	38	91	35	85	33
677	Old Gold-VY LT	52	20	49	19	46	17
680	Old Gold-DK	161	63	151	59	141	55
712	Cream	2529	995	2360	929	2213	871
730	Olive Green-VY DK	980	386	915	360	858	338
732	Olive Green	77	30	72	28	68	26
733	Olive Green-MD	39	15	37	14	34	14
734	Olive Green-LT	280	110	262	103	245	96
738	Tan-VY LT	169	66	158	62	148	58
739	Tan-UL VY LT	91	35	85	33	80	31
746	Off White	1383	544	1291	508	1210	476
747	Sky Blue-VY LT	783	308	731	287	685	269
762	Pearl Gray-VY LT	198	78	185	73	173	68
775	Baby Blue-VY LT	2551	1004	2381	937	2232	879
780	Topaz-UL VY DK	32	12	29	11	28	11
782	Topaz-DK	19	7	17	7	16	6
800	Delft Blue-Pale	321	126	299	118	281	110
807	Peacock Blue	57	23	53	21	50	20
813	Blue-LT	542	213	506	199	474	186
819	Baby Pink-LT	44	17	41	16	39	15
827	Blue-VY LT	655	258	611	241	573	226
828	Blue-UL VY LT	2602	1024	2429	956	2277	896
831	Golden Olive-MD	941	370	878	346	824	324
832	Golden Olive	212	83	198	77	186	73
833	Golden Olive-LT	143	56	134	52	125	49
834	Golden Olive-VY LT	119	46	111	43	104	41
838	Beige Brown-VY DK	1954	769	1823	718	1709	673
839	Beige Brown-DK	1619	637	1511	595	1416	557
869	Hazelnut Brown-VY DK	330	130	308	121	289	114
926	Gray Green-MD	136	53	127	50	119	47
927	Gray Green-LT	179	70	167	65	157	61
928	Gray Green-VY LT	973	383	908	358	852	335
932	Antique Blue-LT	591	233	552	217	518	204
935	Avocado Green-DK	169	66	158	62	148	58
975	Golden Brown-DK	344	135	321	126	301	118
993	Aquamarine-LT	534	210	498	196	467	183
3012	Khaki Green-MD	640	252	598	235	560	221
3013	Khaki Green-LT	431	169	402	158	377	148
3021	Brown Gray-VY DK	3839	1511	3583	1411	3359	1322
3031	Mocha Brown-VY DK	1619	637	1511	595	1416	557
3045	Yellow Beige-DK	536	211	500	197	469	185
3046	Yellow Beige-MD	102	40	95	37	89	35
3052	Green Gray-MD	1650	649	1540	606	1443	568
3072	Beaver Gray-VY LT	4416	1738	4121	1622	3864	1521
3346	Hunter Green	217	85	202	79	190	74
3347	Yellow Green-MD	279	109	260	102	244	96
3362	Pine Green-DK	682	268	637	250	597	235
3363	Pine Green-MD	372	146	347	136	325	128
3721	Shell Pink-DK	66	26	61	24	57	23
3726	Antique Mauve-DK	66	26	61	24	57	23
3752	Antique Blue-VY LT	1661	654	1550	610	1454	572
3755	Baby Blue	37	14	35	13	33	12
3756	Baby Blue-UL VY LT	64	25	60	23	56	22
3766	Peacock Blue-LT	1203	474	1123	442	1053	415
3768	Gray Green-DK	165	65	154	61	145	57
3770	Tawny-VY LT	105	41	98	38	92	36
3772	Desert Sand-VY DK	523	206	488	192	458	180
3774	Desert Sand-VY LT	47	18	44	17	41	16

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3781	Mocha Brown-DK	517	203	482	190	452	178
3782	Mocha Brown-LT	460	181	429	169	402	158
3787	Brown Gray-DK	1661	653	1550	610	1453	572
3799	Pewter Gray-VY DK	6294	2478	5875	2312	5507	2168
3802	Antique Mauve-VY DK	1155	455	1078	424	1010	398
3813	Blue Green-LT	133	52	124	49	116	46
3820	Straw-DK	62	24	58	23	55	21
3823	Yellow-UL Pale	113	44	106	41	99	39
3828	Hazelnut Brown	316	124	295	116	276	109
3829	Old Gold-VY DK	60	24	56	22	53	21
3830	Terra Cotta-MD	41	15	38	14	35	14
3849	Teal Green-LT	37	14	35	13	33	12
3860	Cocoa	539	212	503	197	471	185
3861	Cocoa-LT	190	75	177	70	166	65
3862	Mocha Beige-DK	621	244	580	228	543	214
3865	Winter White	308	121	287	113	269	106
3866	Mocha Brown-UL VY LT	447	176	418	164	392	154
Ecu	Ecu	200	78	187	73	175	69

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$$(20) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (21)$$

$$(21) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (22)$$

(23)

(24)

$$(24) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (25)$$

[illegible]

$$(26) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (27)$$

$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

	490	500	510	520	530	540
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20	+	+	+	+	+	+
30	+	+	+	+	+	+
40	+	+	+	+	+	+
50	+	+	+	+	+	+
60	+	+	+	+	+	+
70	+	+	+	+	+	+
80	+	+	+	+	+	+
90	+	+	+	+	+	+
100	+	+	+	+	+	+
110	+	+	+	+	+	+
120	+	+	+	+	+	+
130	+	+	+	+	+	+
140	+	+	+	+	+	+
150	+	+	+	+	+	+
160	+	+	+	+	+	+
170	+	+	+	+	+	+
180	+	+	+	+	+	+
190	+	+	+	+	+	+
200	+	+	+	+	+	+
210	+	+	+	+	+	+
220	+	+	+	+	+	+
230	+	+	+	+	+	+
240	+	+	+	+	+	+
250	+	+	+	+	+	+
260	+	+	+	+	+	+
270	+	+	+	+	+	+
280	+	+	+	+	+	+
290	+	+	+	+	+	+
300	+	+	+	+	+	+
310	+	+	+	+	+	+
320	+	+	+	+	+	+
330	+	+	+	+	+	+
340	+	+	+	+	+	+
350	+	+	+	+	+	+
360	+	+	+	+	+	+
370	+	+	+	+	+	+
380	+	+	+	+	+	+
390	+	+	+	+	+	+
400	+	+	+	+	+	+
410	+	+	+	+	+	+
420	+	+	+	+	+	+
430	+	+	+	+	+	+
440	+	+	+	+	+	+
450	+	+	+	+	+	+
460	+	+	+	+	+	+
470	+	+	+	+	+	+
480	+	+	+	+	+	+
490	+	+	+	+	+	+
500	+	+	+	+	+	+
510	+	+	+	+	+	+
520	+	+	+	+	+	+
530	+	+	+	+	+	+
540	+	+	+	+	+	+

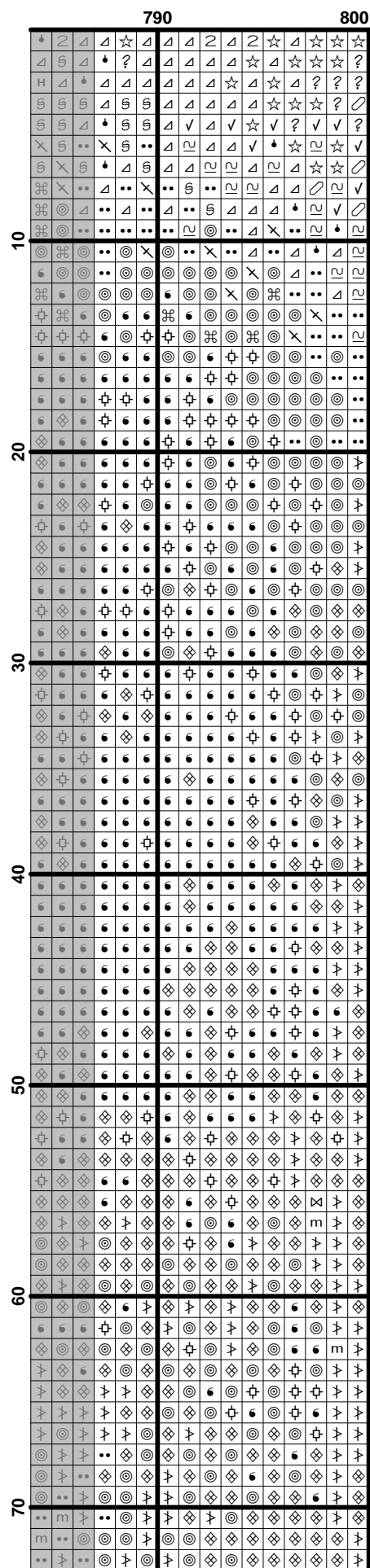
	540	550	560	570	580	590
10	4	4	4	4	4	4
20	4	4	4	4	4	4
30	4	4	4	4	4	4
40	4	4	4	4	4	4
50	4	4	4	4	4	4
60	4	4	4	4	4	4
70	4	4	4	4	4	4

[illegible]

[illegible]

[illegible]

[illegible]



$$(35) \quad \mathcal{L}(\mathcal{A}) \subseteq \mathcal{L}(\mathcal{B}) \iff \mathcal{A} \subseteq \mathcal{B} \quad (36)$$

	50	60	70	80	90	100
70						
80						
90						
100						
110						
120						
130						
140						

	100	110	120	130	140	150
70	100	110	120	130	140	150
80	80	80	80	80	80	80
90	90	90	90	90	90	90
100	100	100	100	100	100	100
110	110	110	110	110	110	110
120	120	120	120	120	120	120
130	130	130	130	130	130	130
140	140	140	140	140	140	140
150	150	150	150	150	150	150

(39)

	200	210	220	230	240
70					
80					
90					
100					
110					
120					
130					
140					

	250	260	270	280	290
70					
80					
90					
100					
110					
120					
130					
140					

[illegible]

	350	360	370	380	390
70	+	+	+	+	+
80	+	+	+	+	+
90	+	+	+	+	+
100	+	+	+	+	+
110	+	+	+	+	+
120	+	+	+	+	+
130	+	+	+	+	+
140	+	+	+	+	+

[illegible]

[illegible]

$$(45) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

[illegible]

$$(47) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

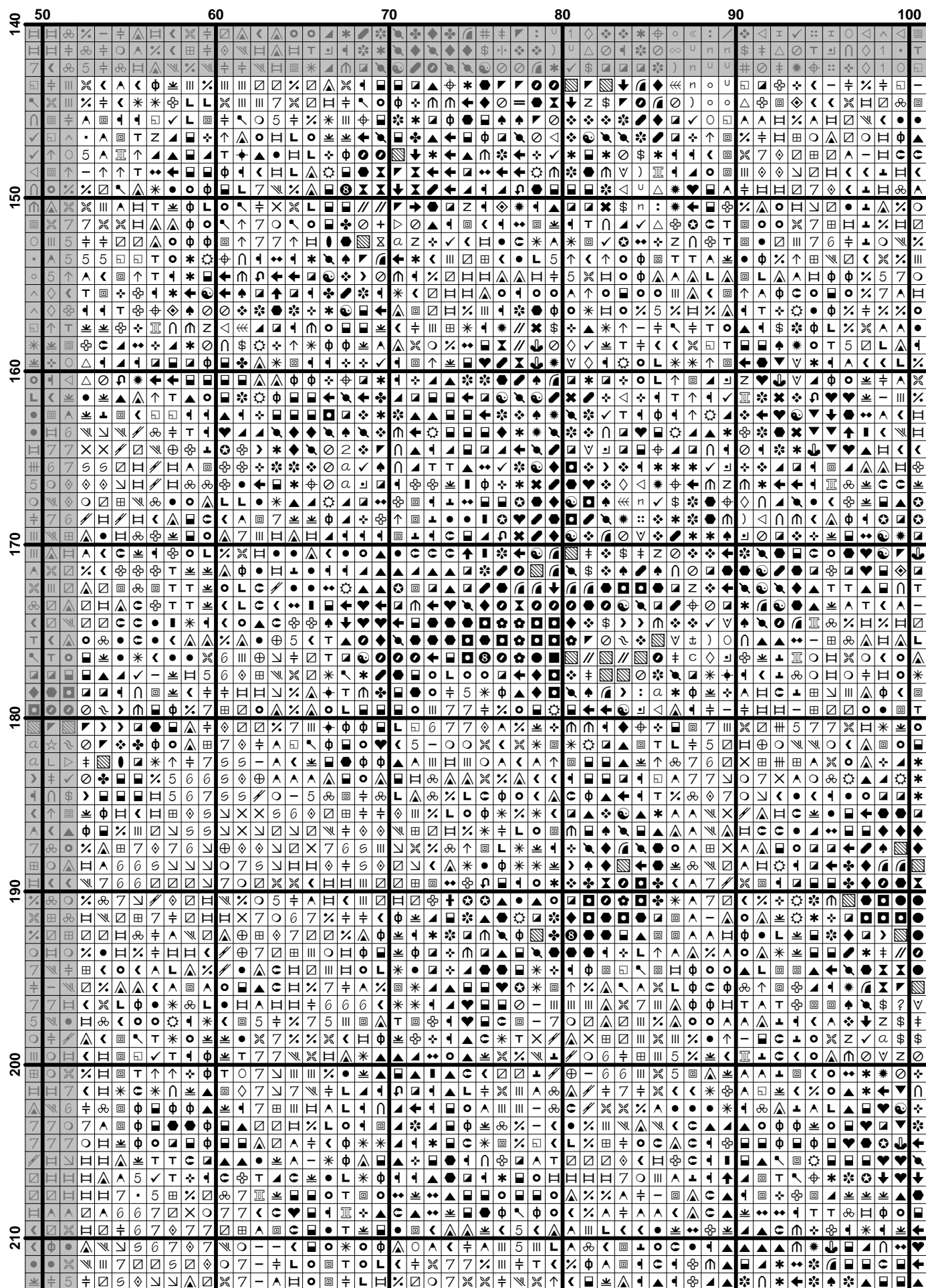
$$(48) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

[illegible]

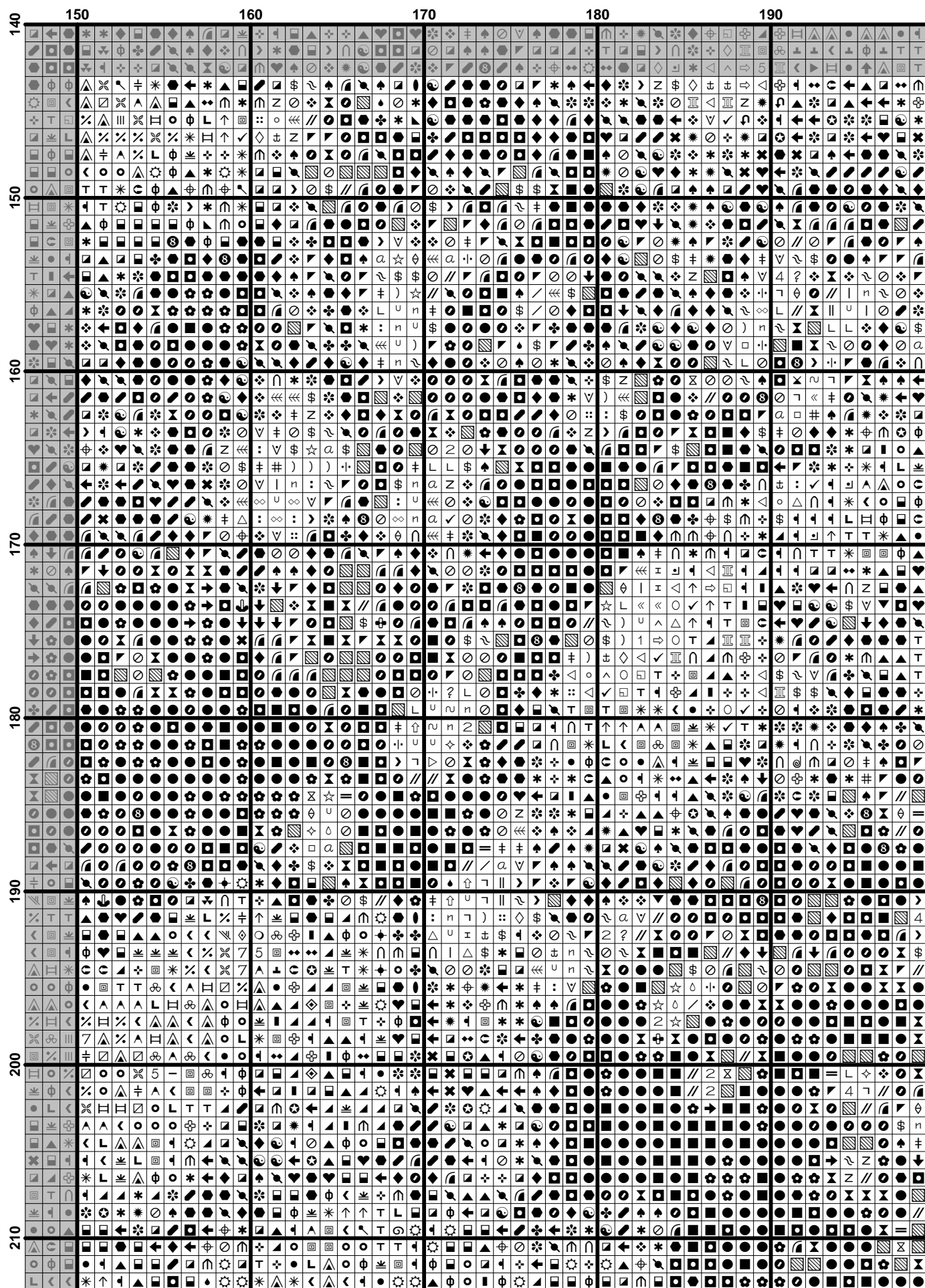
	740	750	760	770	780
70
80
90
100
110
120
130
140

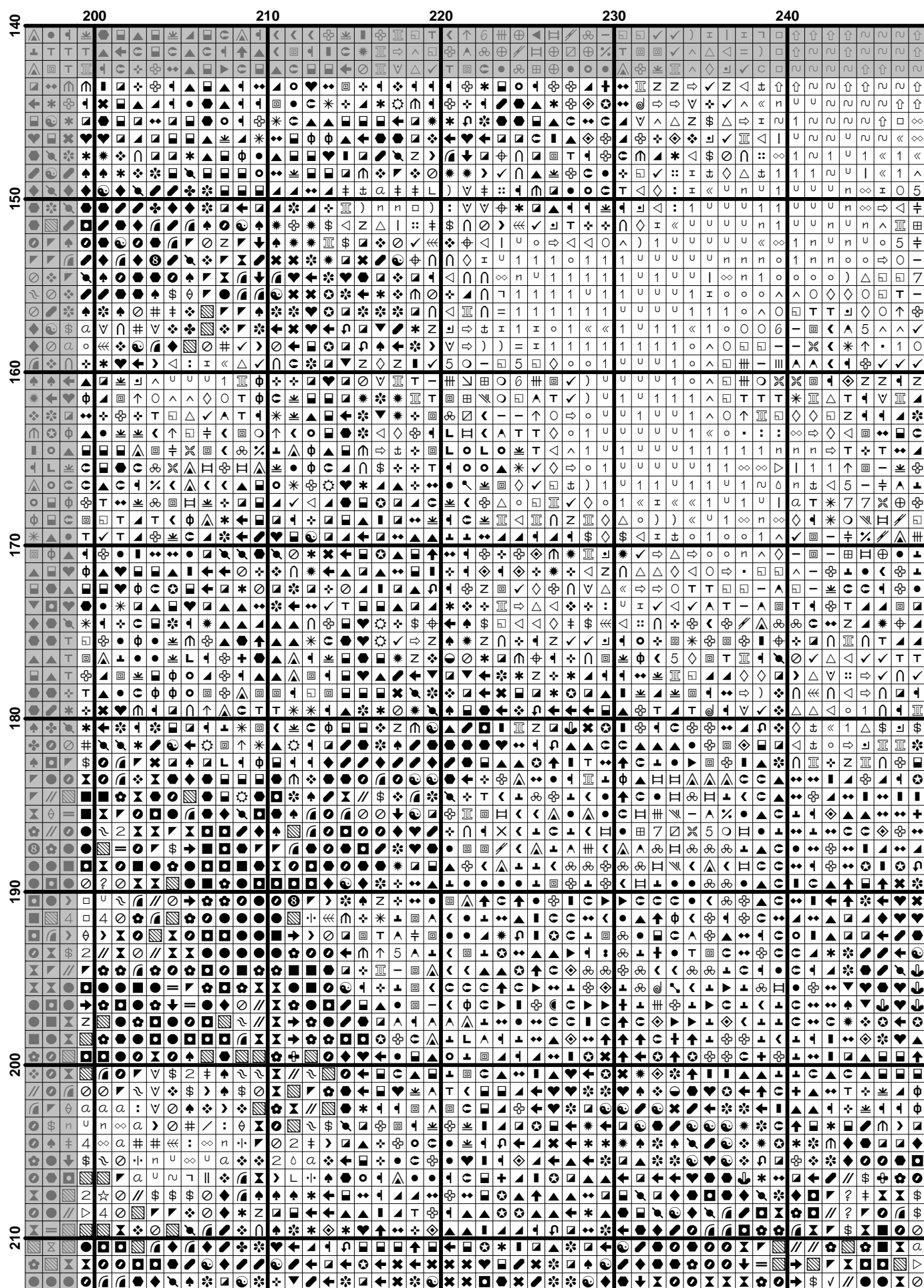
(51)

$$(52) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$



	100	110	120	130	140	150
140						
150						
160						
170						
180						
190						
200						
210						





[illegible]

(59)

$$(59) \quad \begin{aligned} & \left(\frac{\partial}{\partial t} + \nabla_{\vec{v}} \right) \left(\frac{\partial}{\partial t} + \nabla_{\vec{v}} \right) f \\ &= \left(\frac{\partial}{\partial t} + \nabla_{\vec{v}} \right) \left(\frac{\partial}{\partial t} + \nabla_{\vec{v}} \right) f \end{aligned} \tag{60}$$



[illegible]

[illegible]

[illegible]

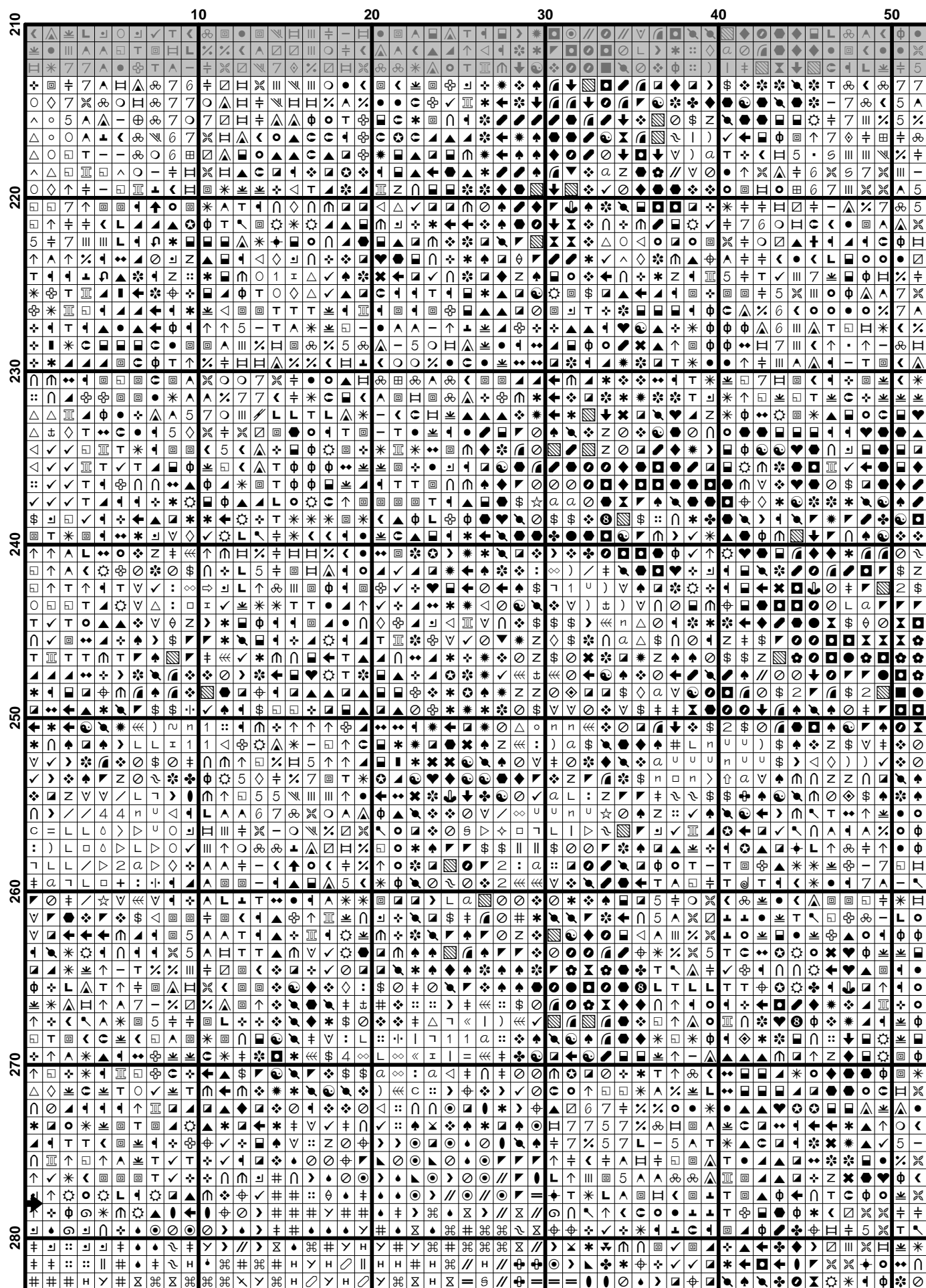
[illegible]

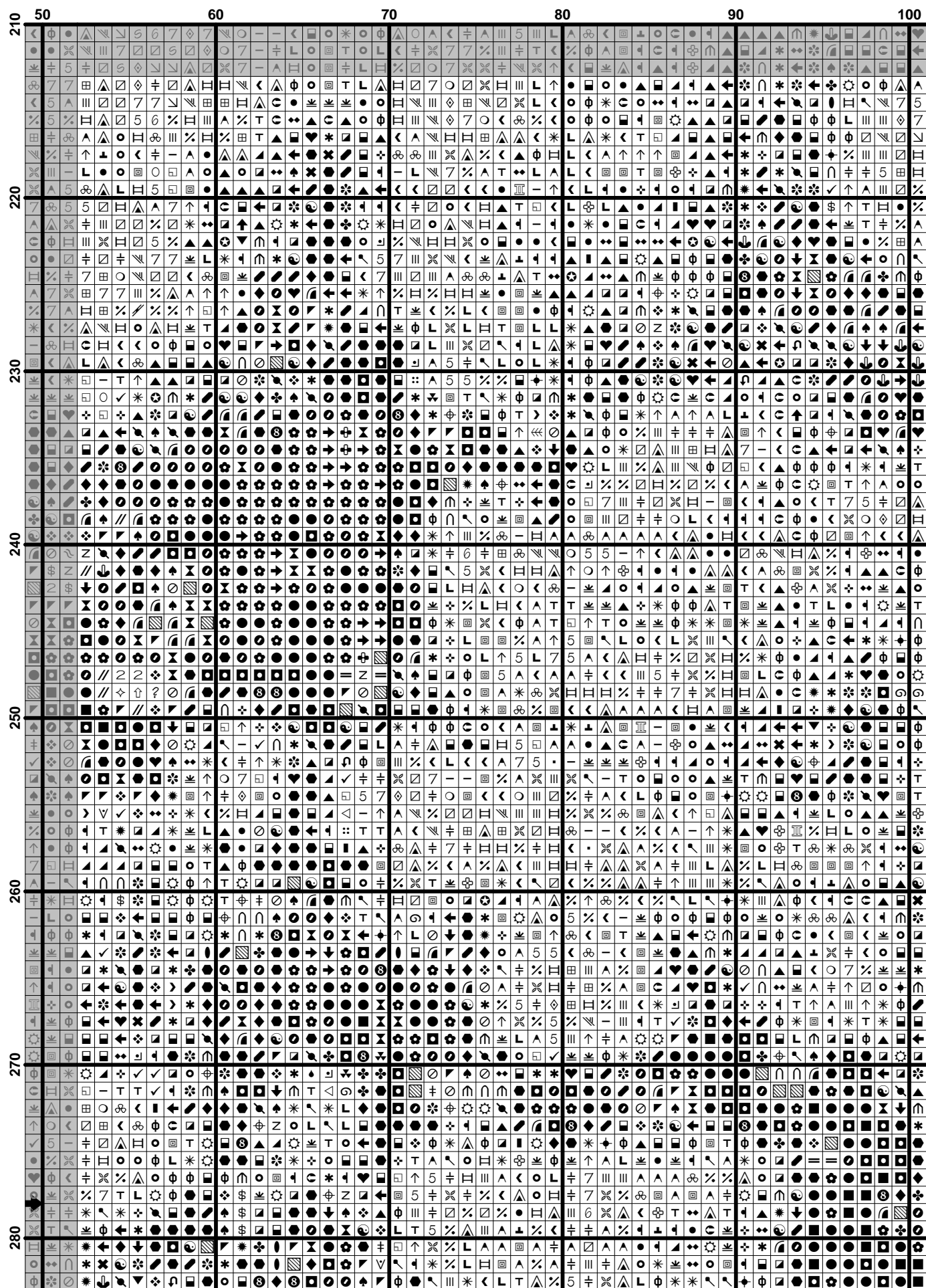
	640	650	660	670	680
140					
150					
160					
170					
180					
190					
200					
210					

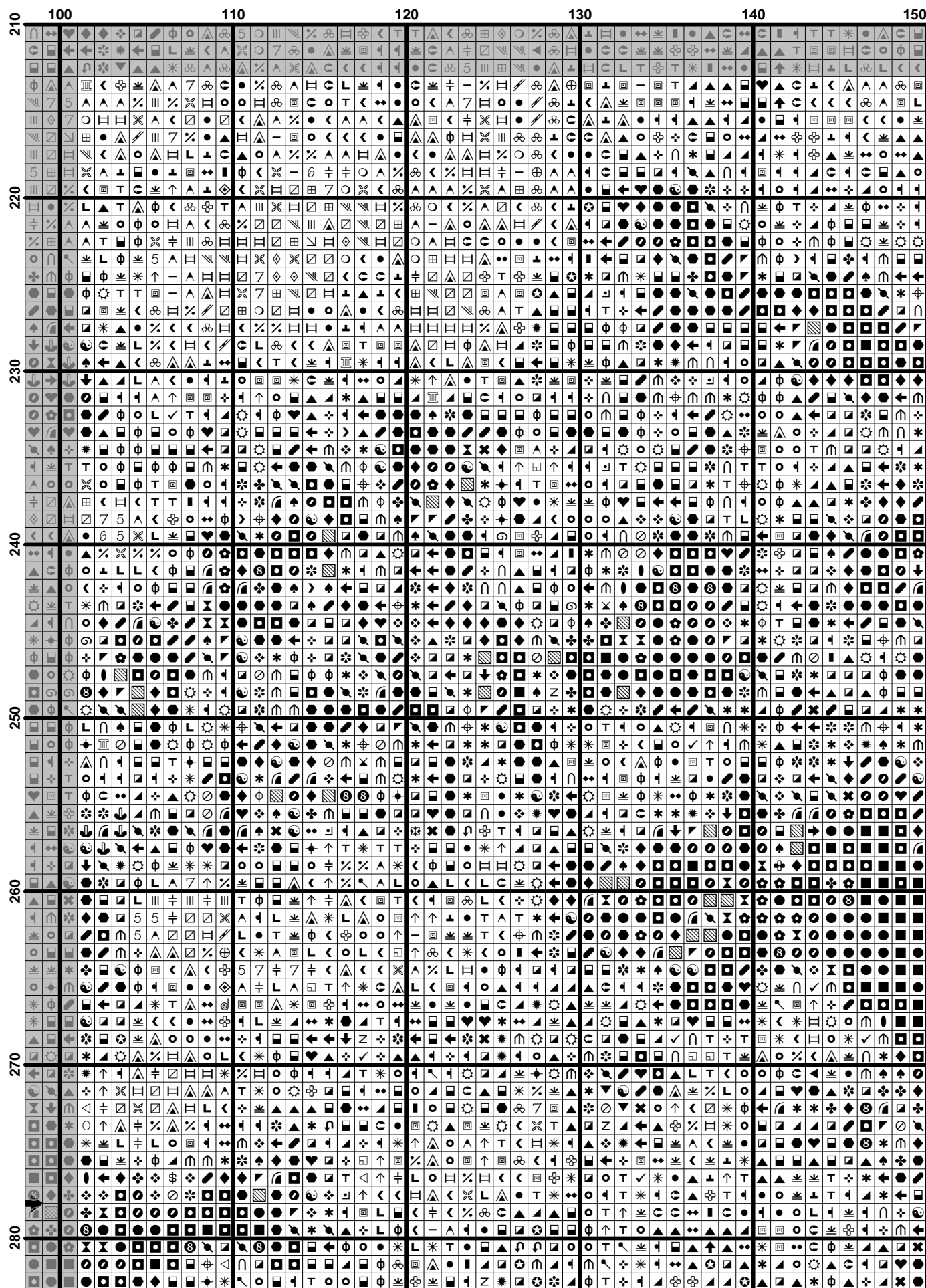
	690	700	710	720	730
140	+	+	+	+	+
150	+	+	+	+	+
160	+	+	+	+	+
170	+	+	+	+	+
180	+	+	+	+	+
190	+	+	+	+	+
200	+	+	+	+	+
210	+	+	+	+	+

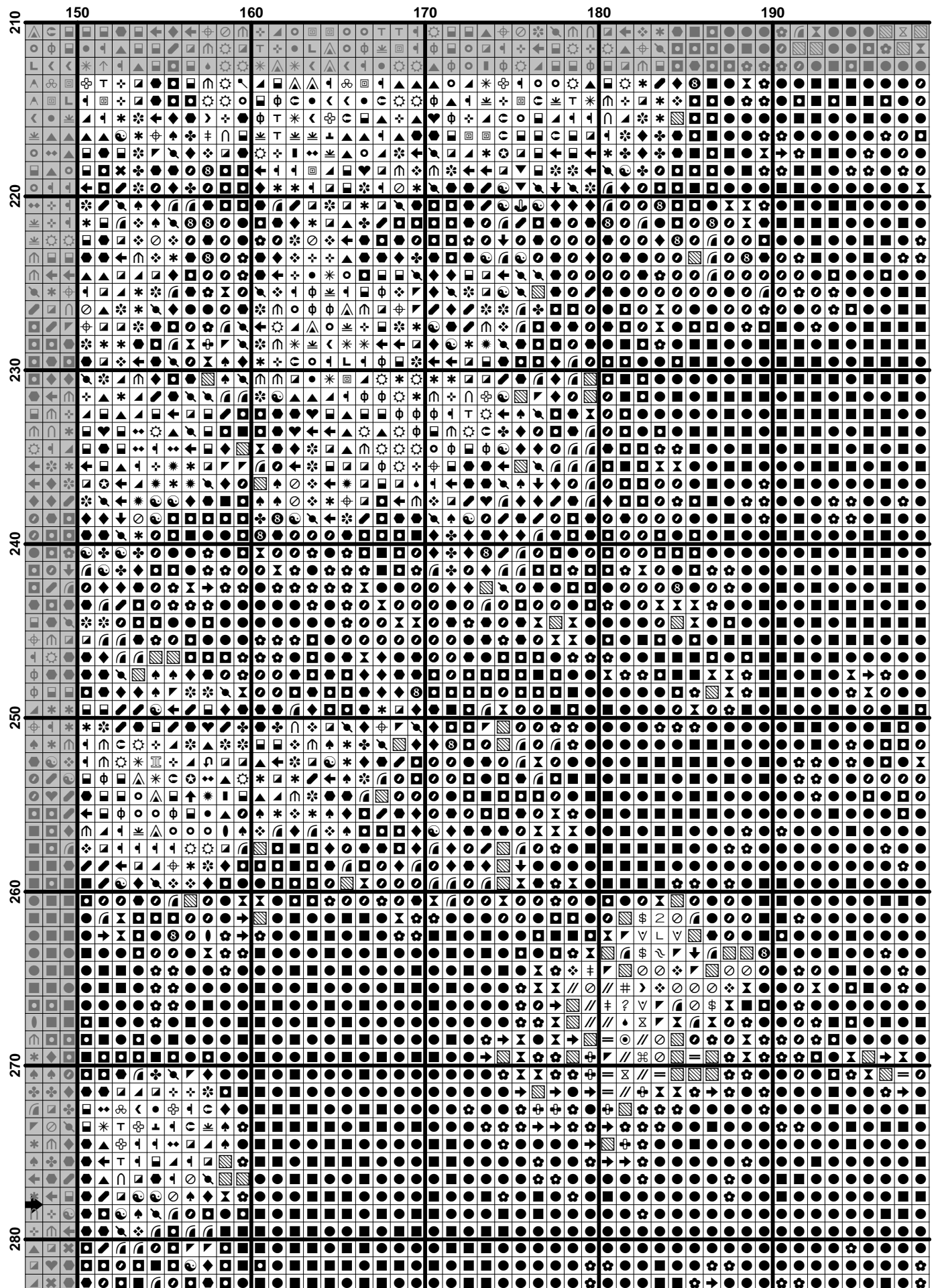
[illegible]

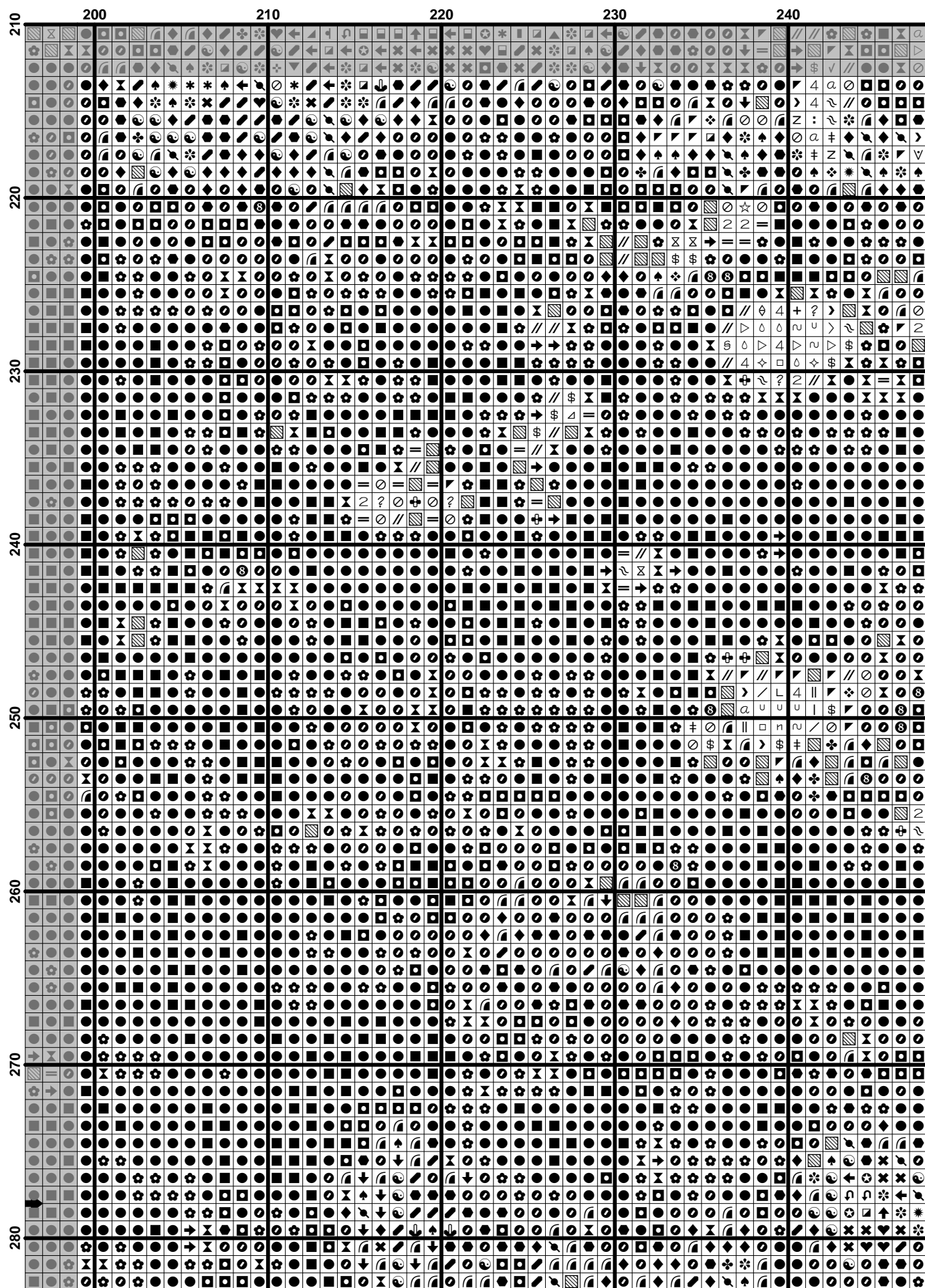
(68)

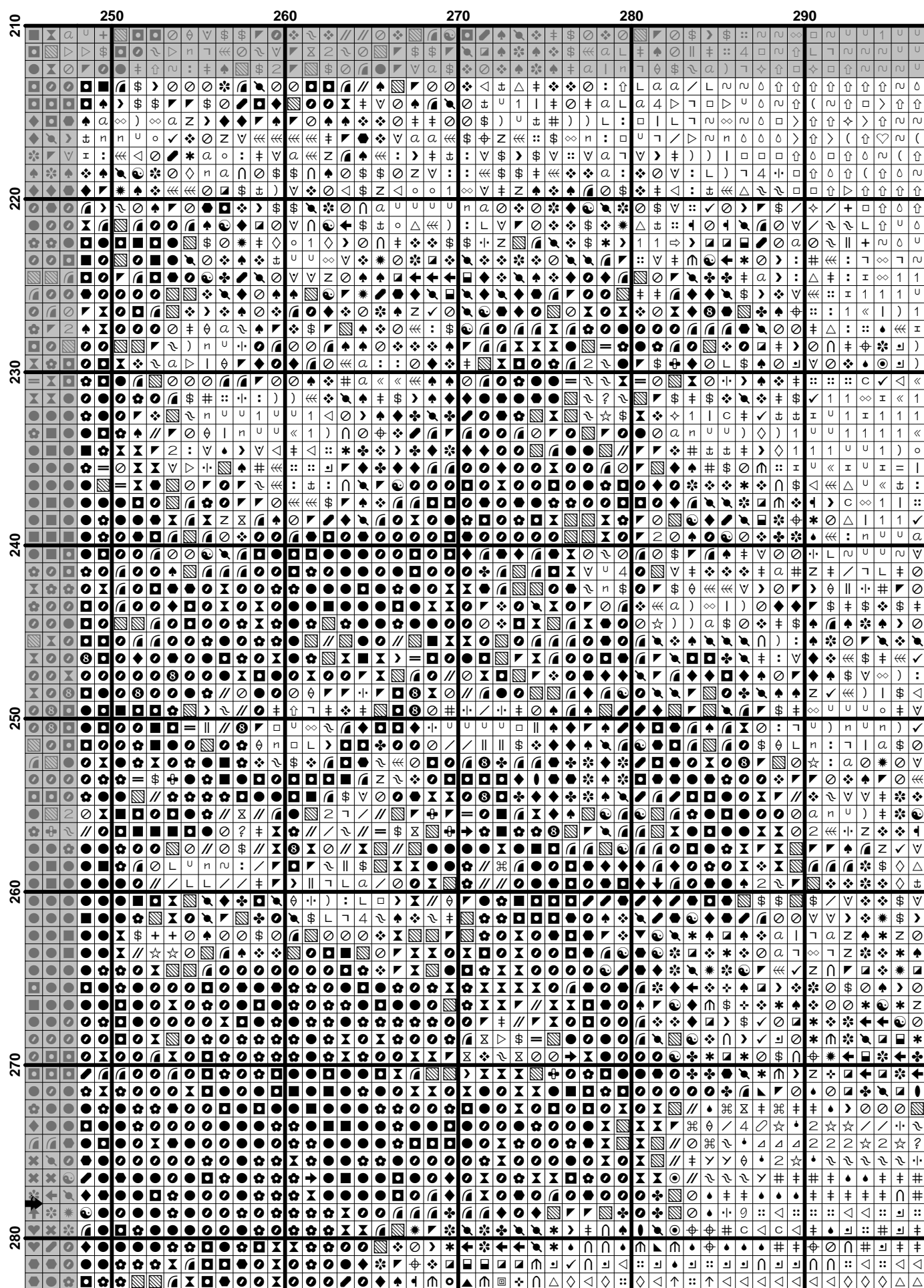


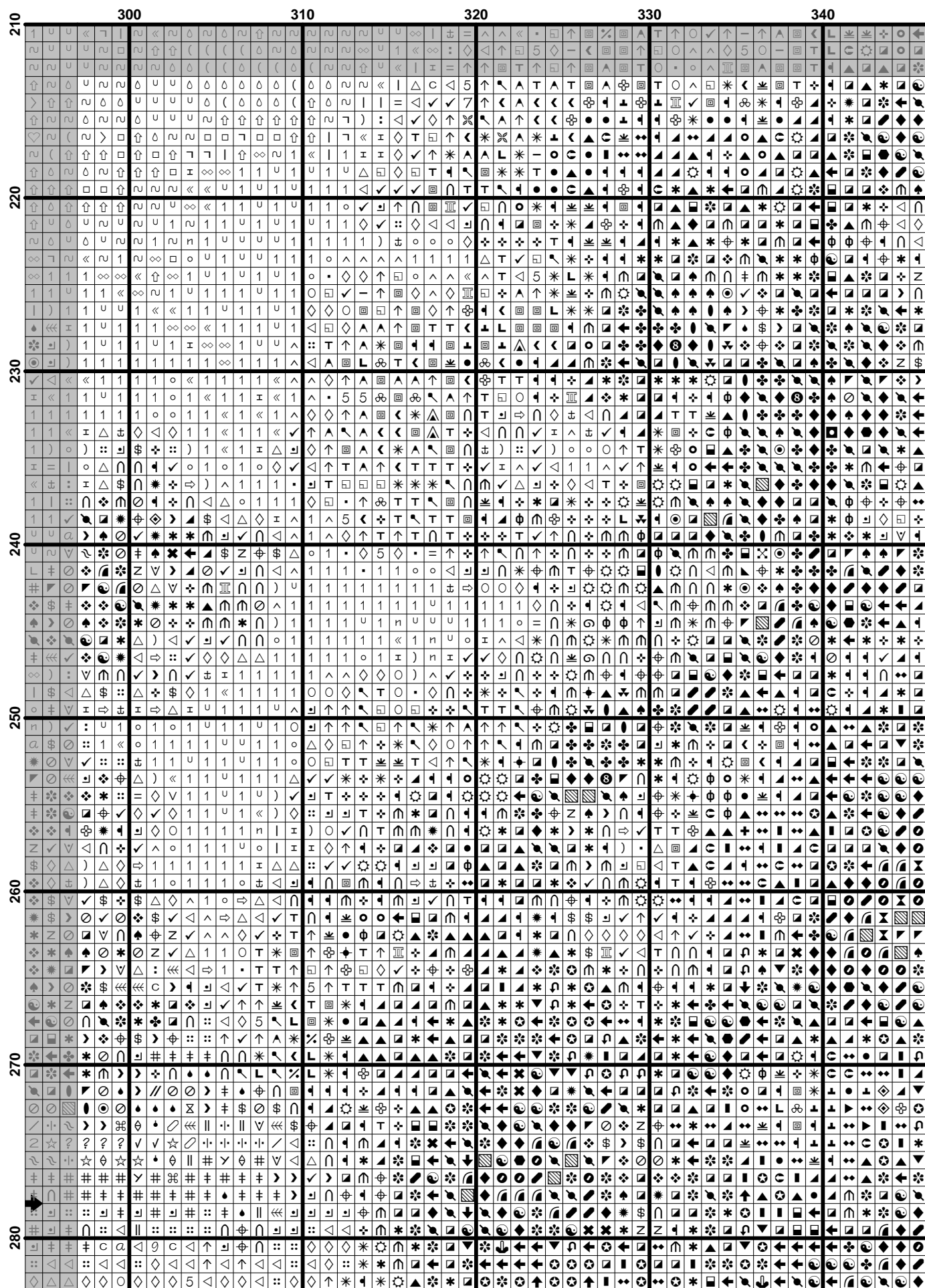


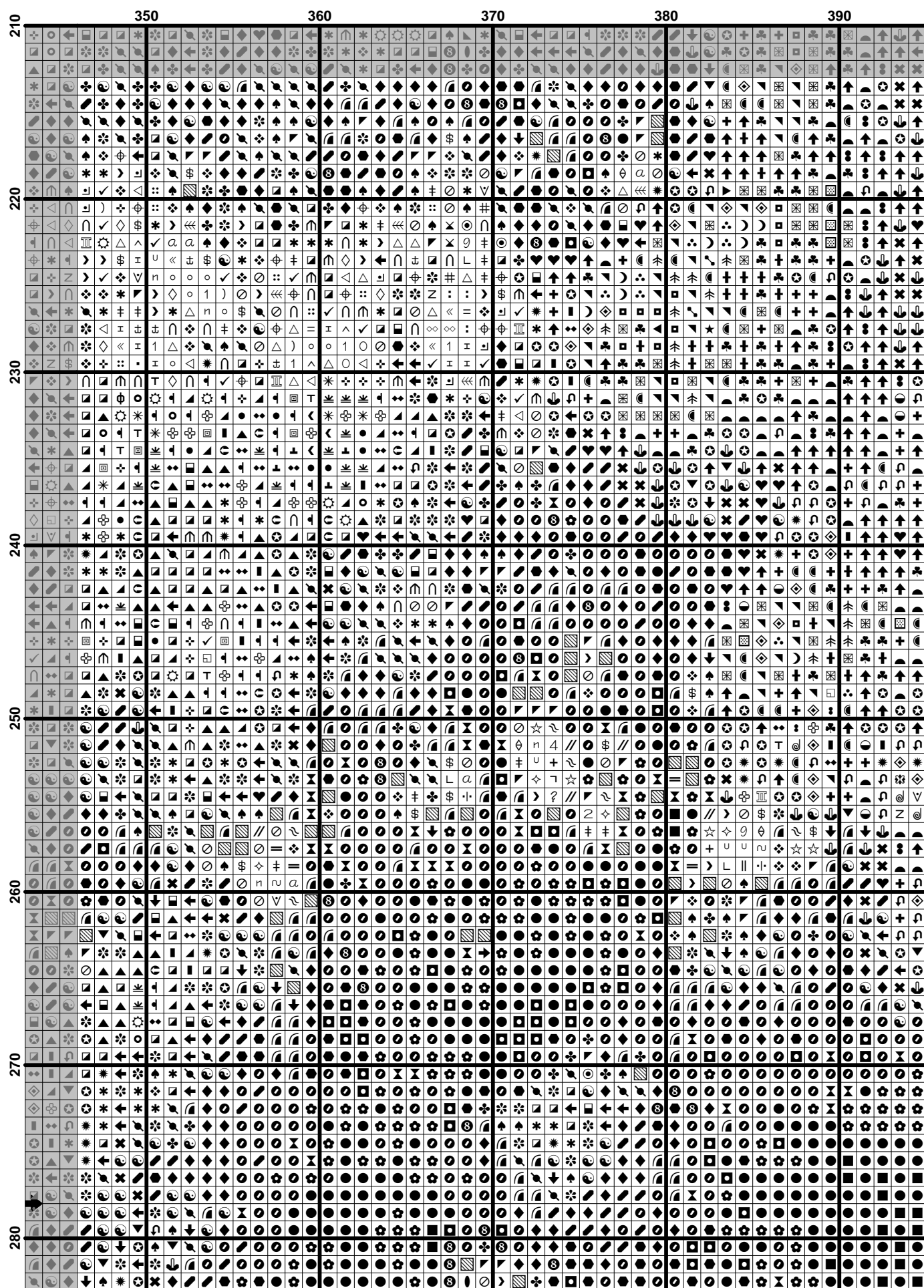




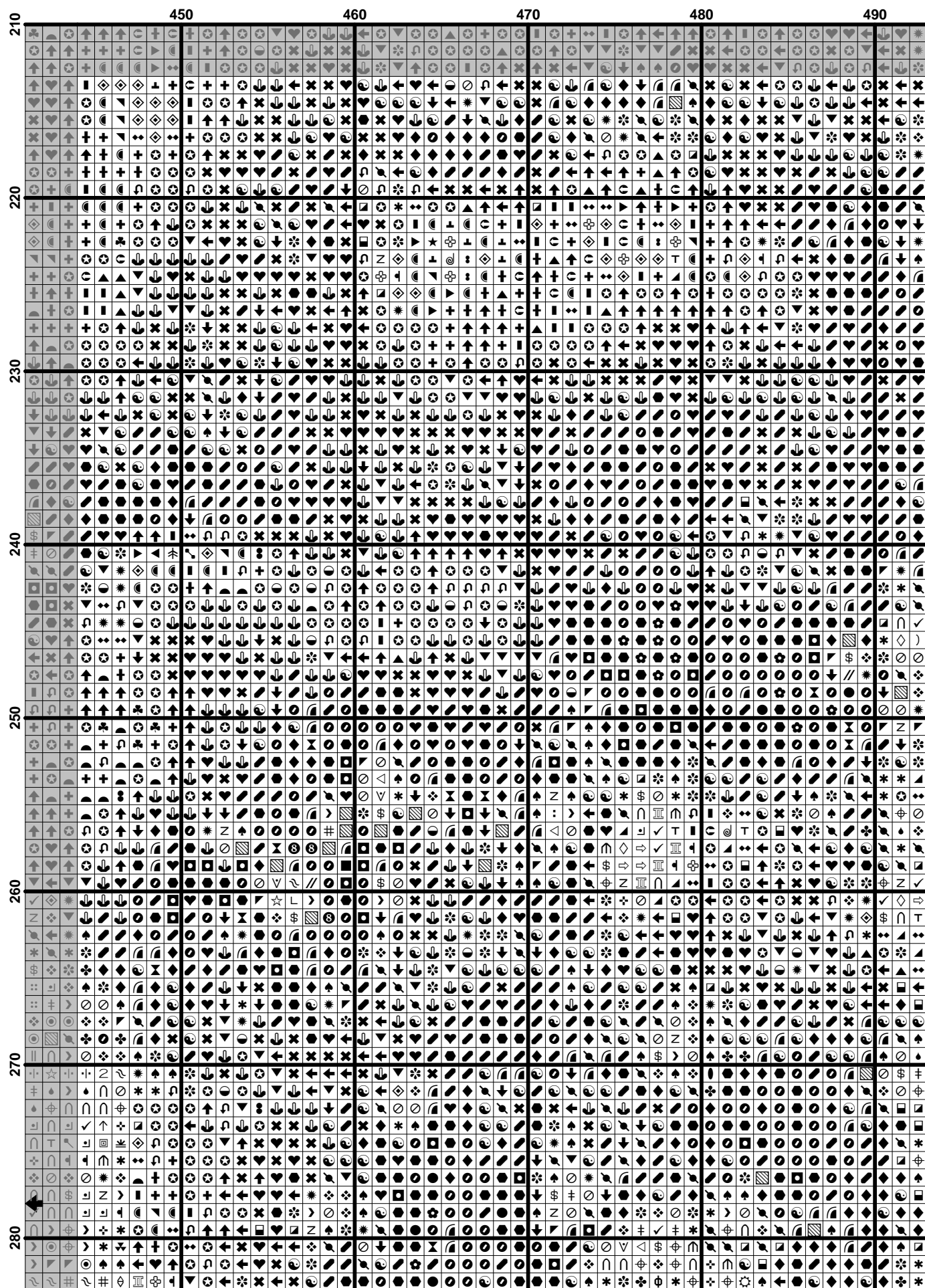


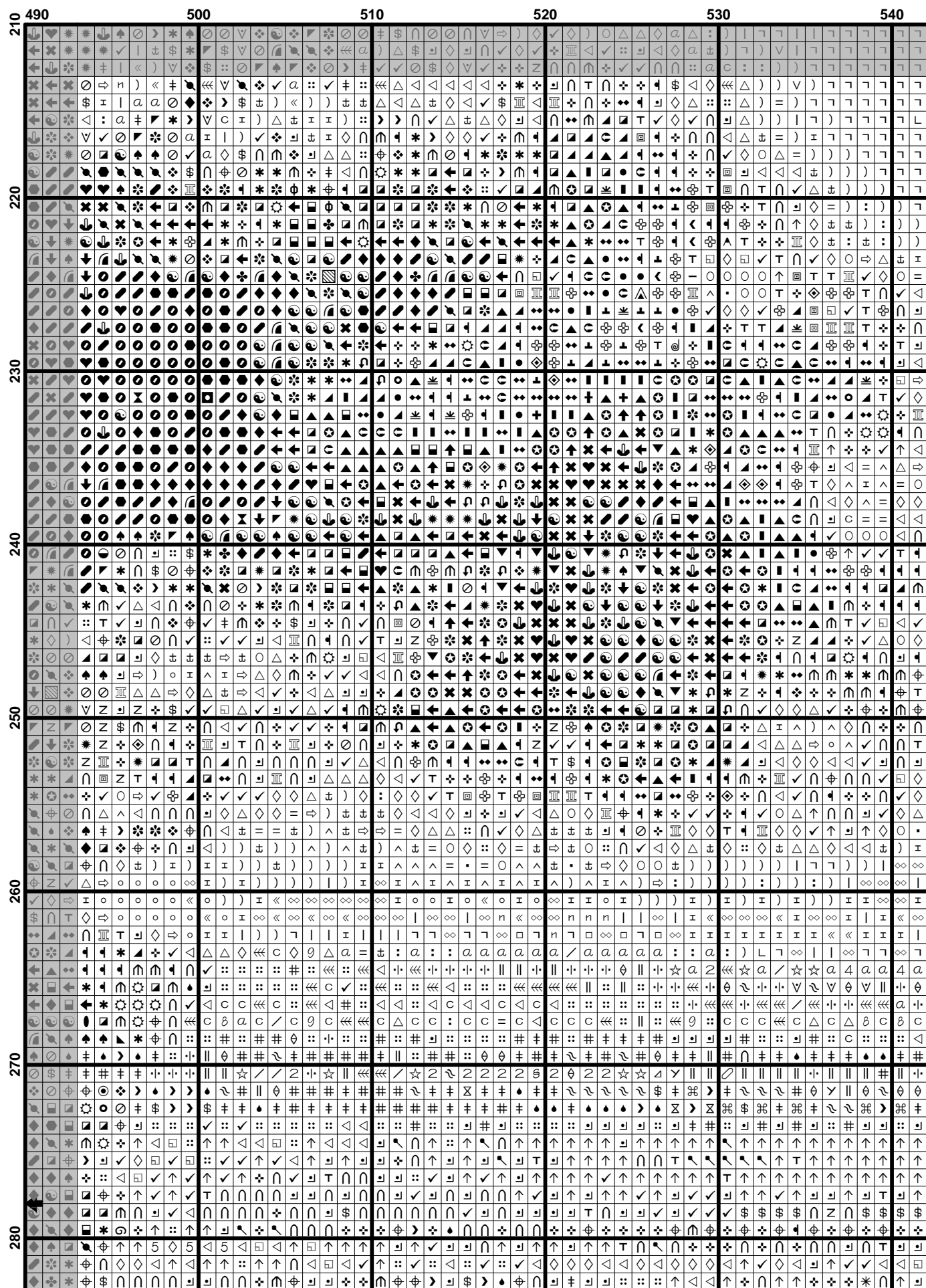








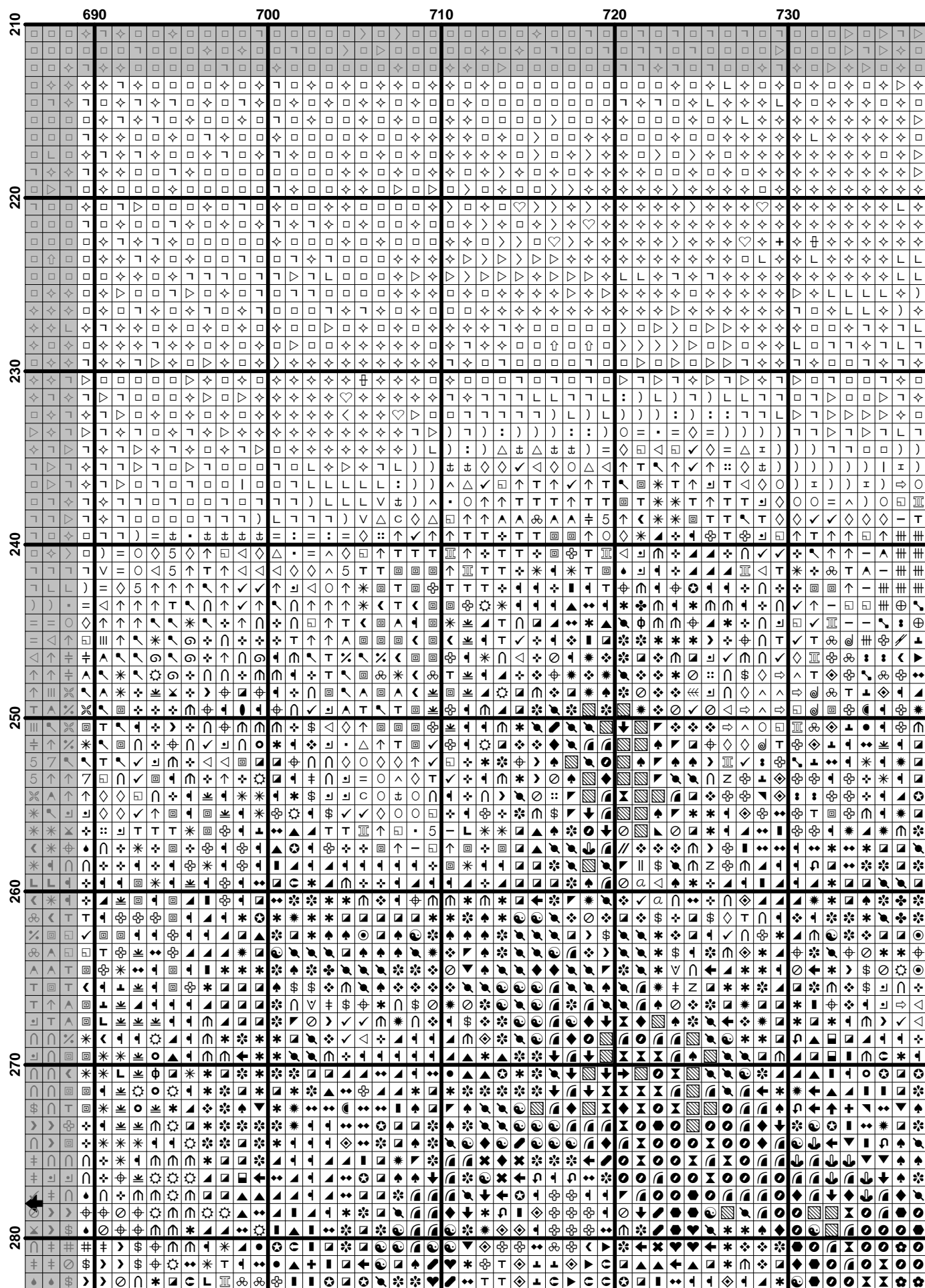




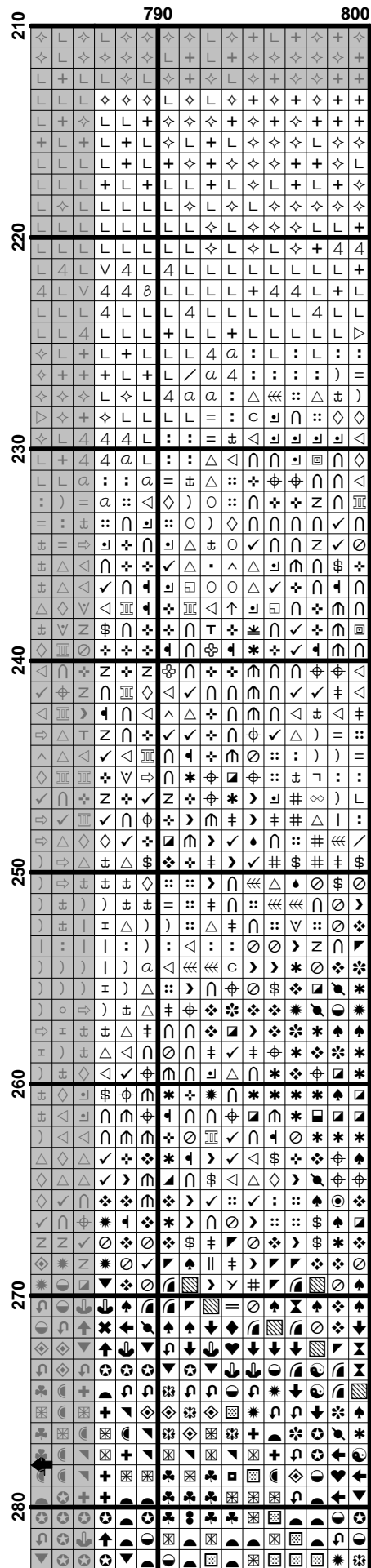
	540	550	560	570	580	590
210
220
230
240
250
260
270
280

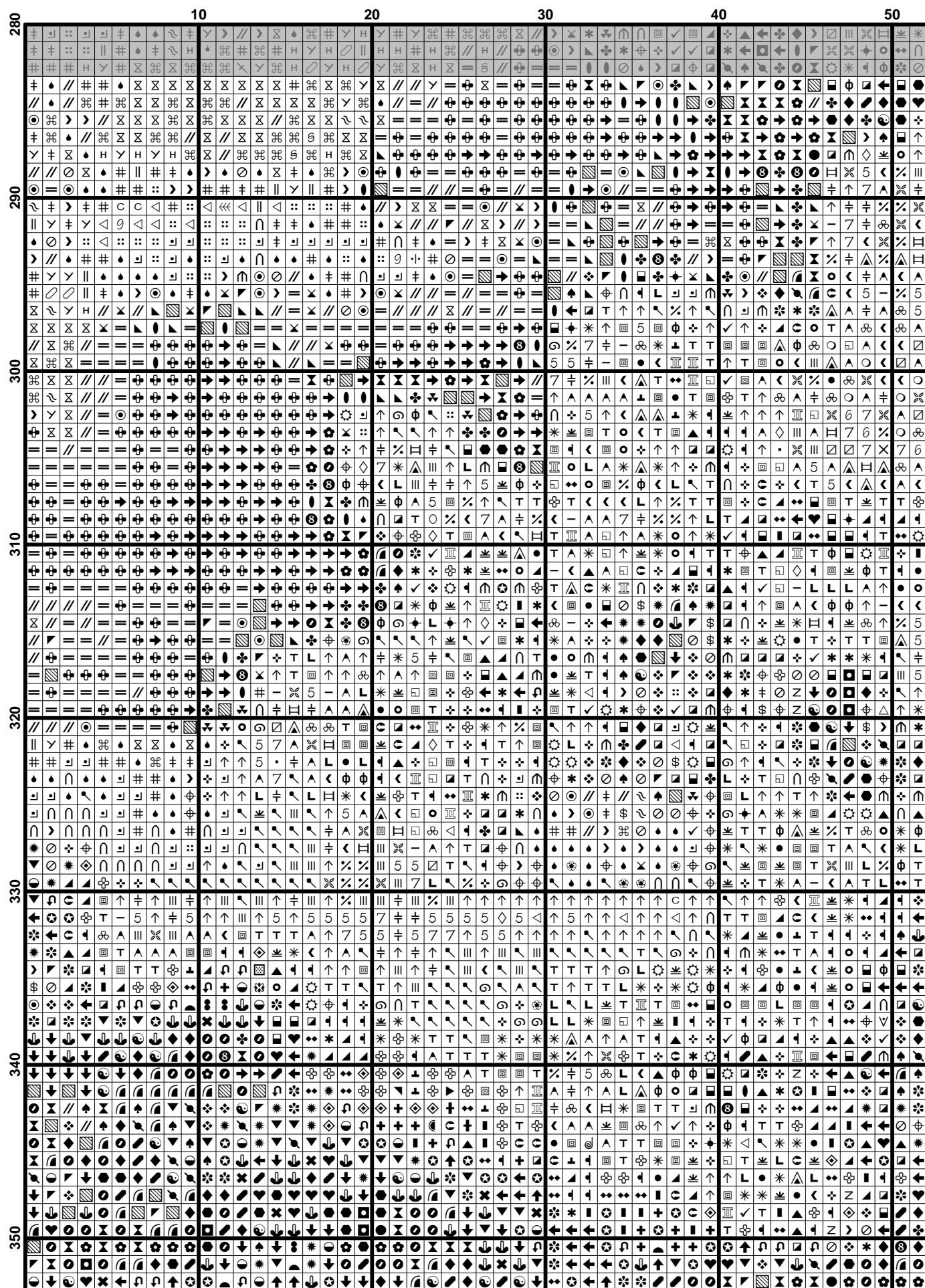
[illegible]

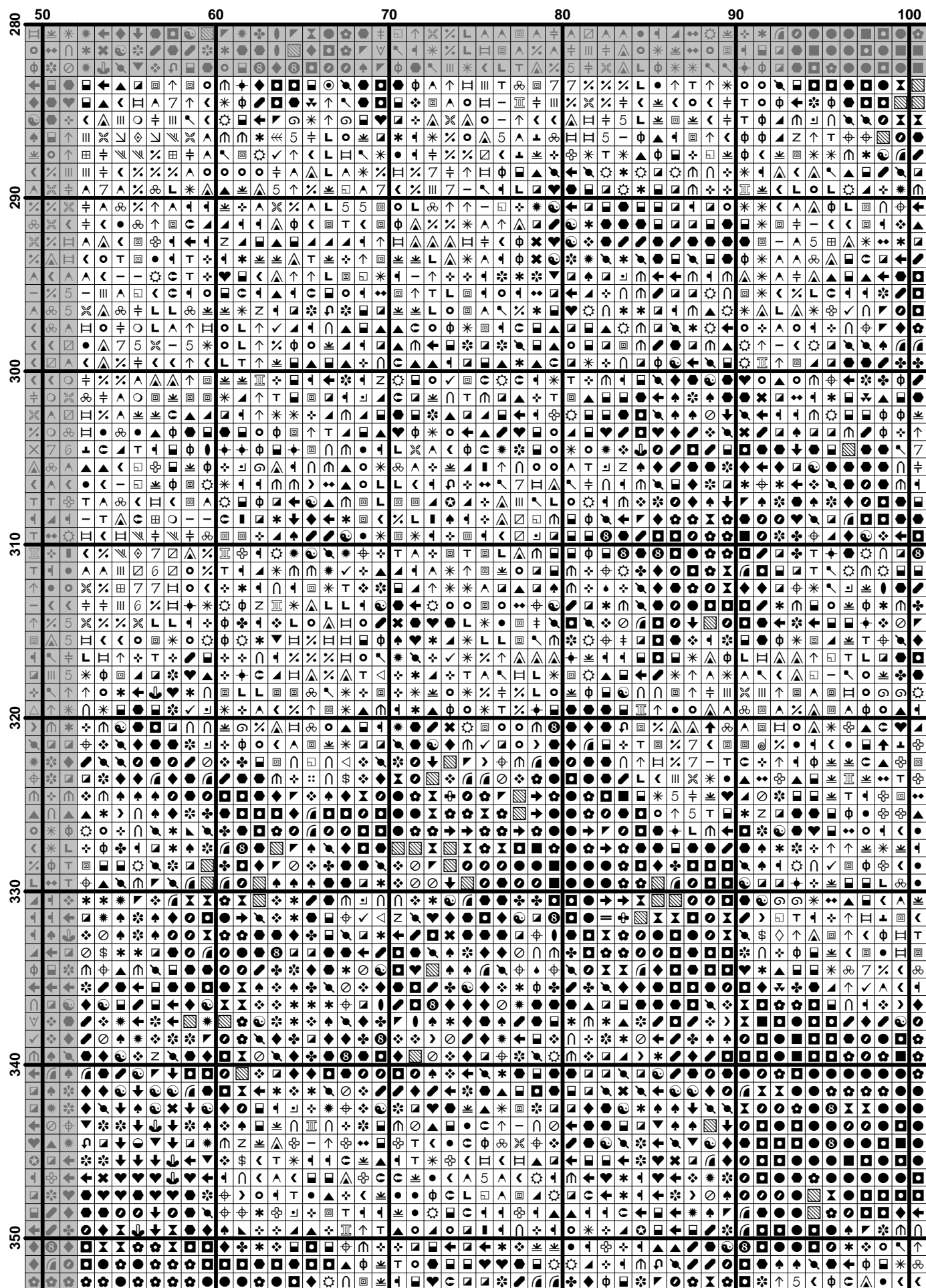
$$(82) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (83)$$

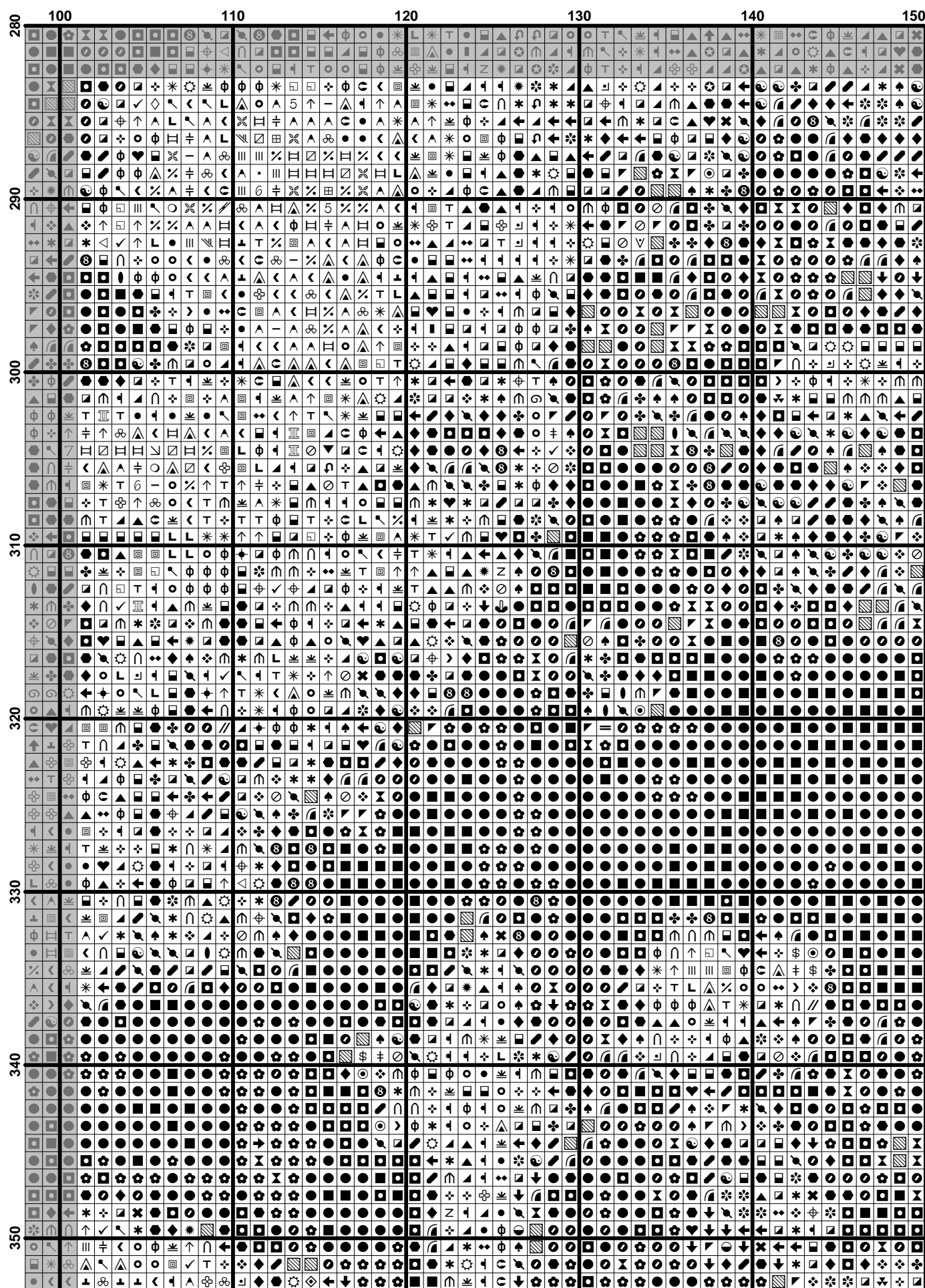


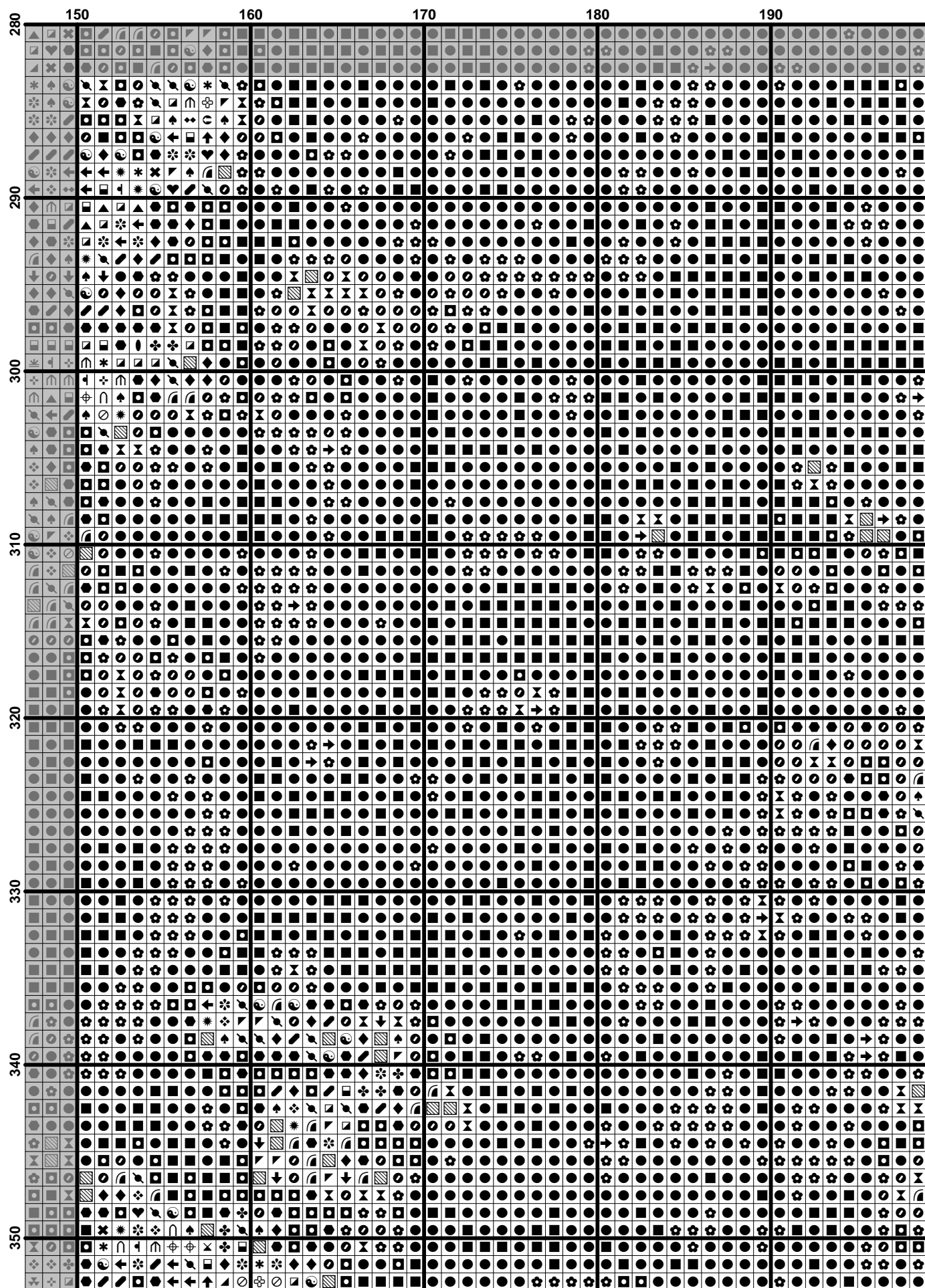
	740	750	760	770	780
210					
220					
230					
240					
250					
260					
270					
280					

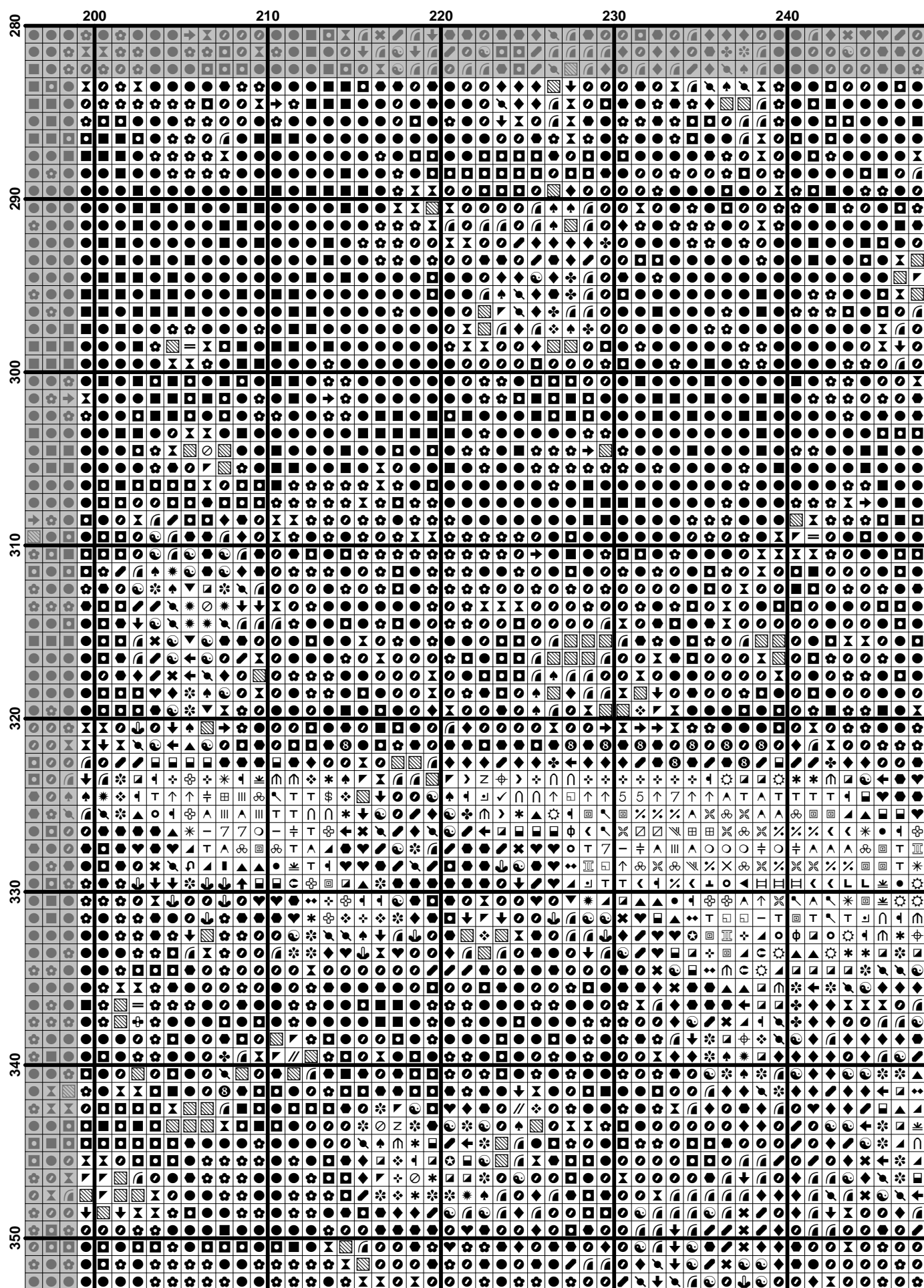


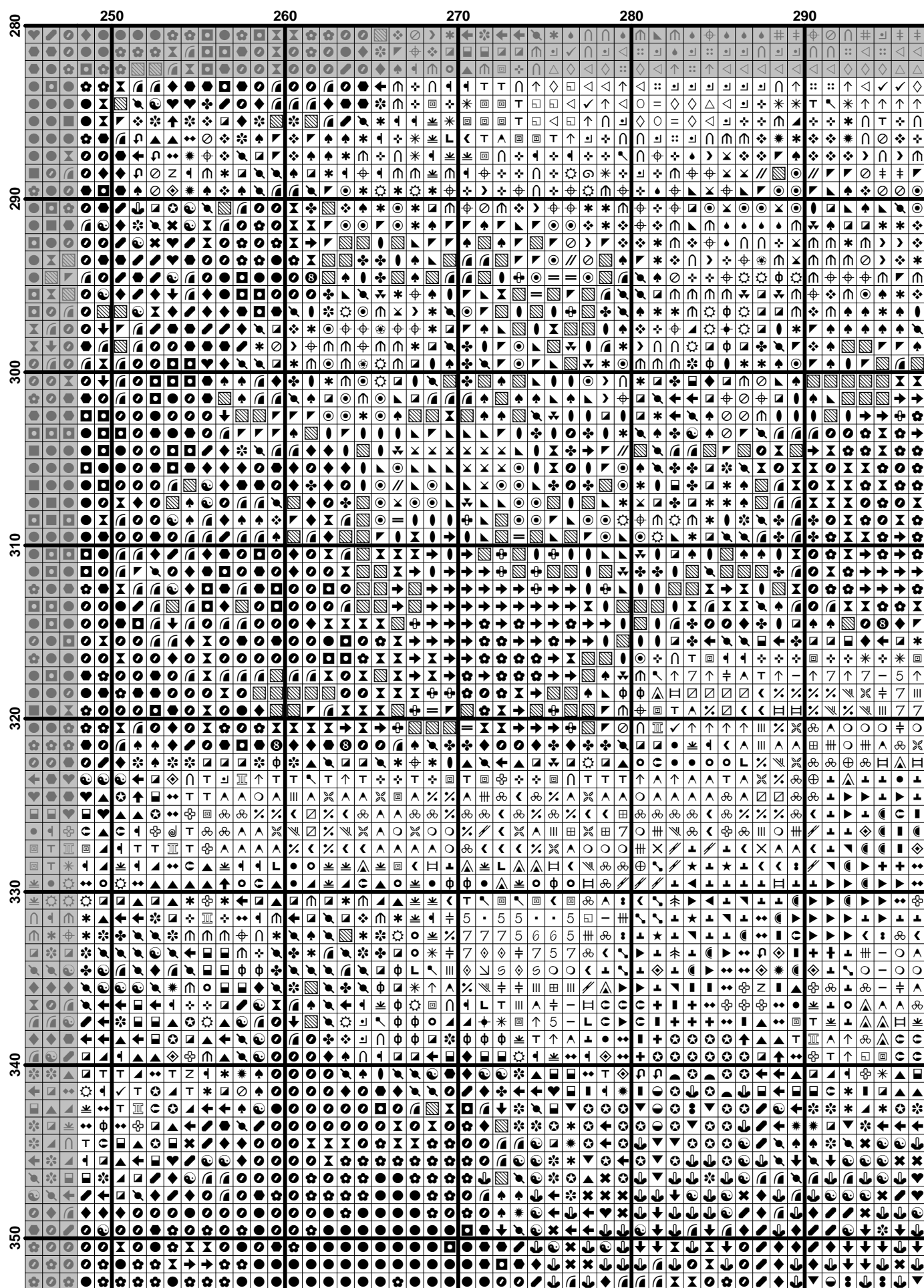


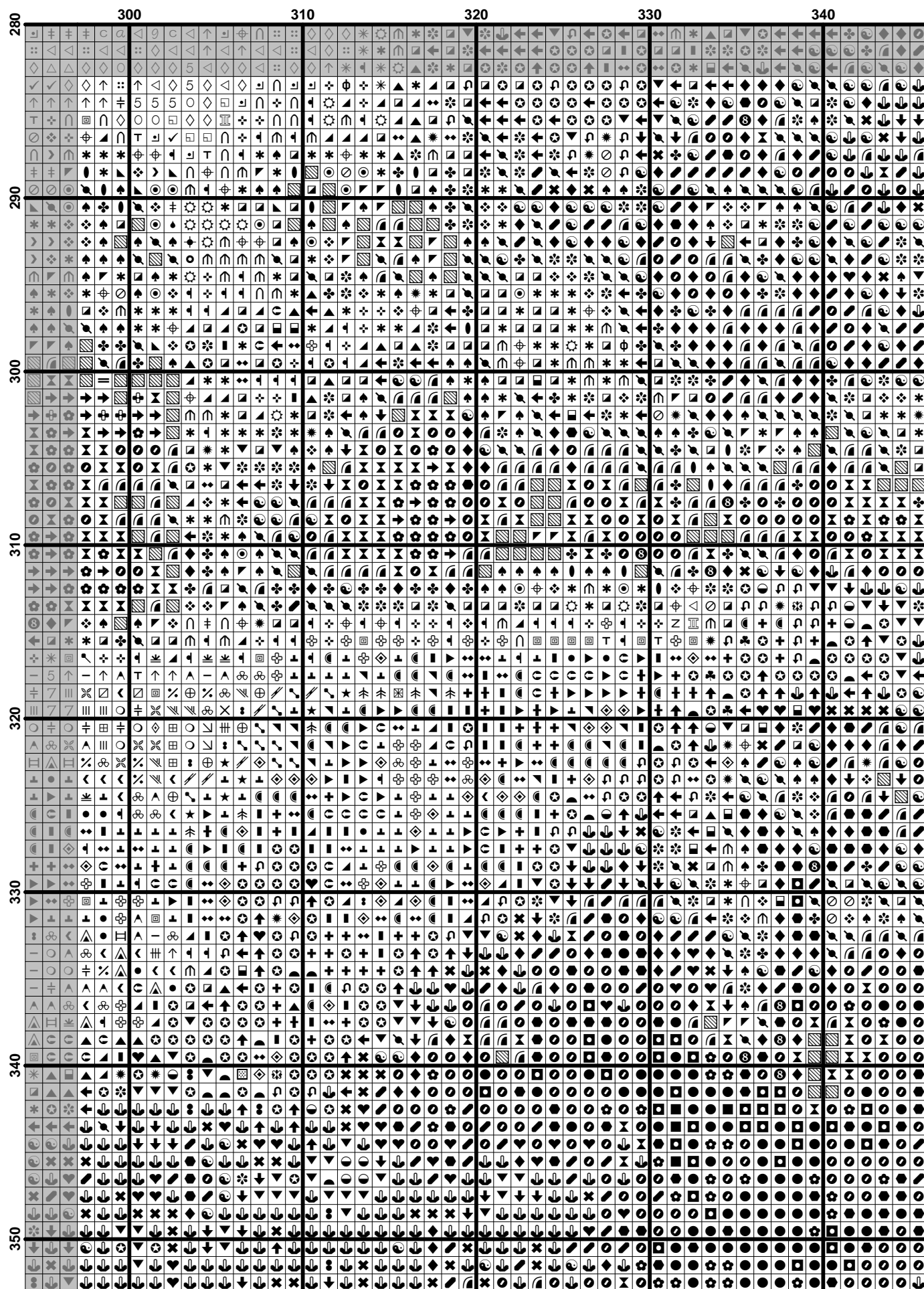


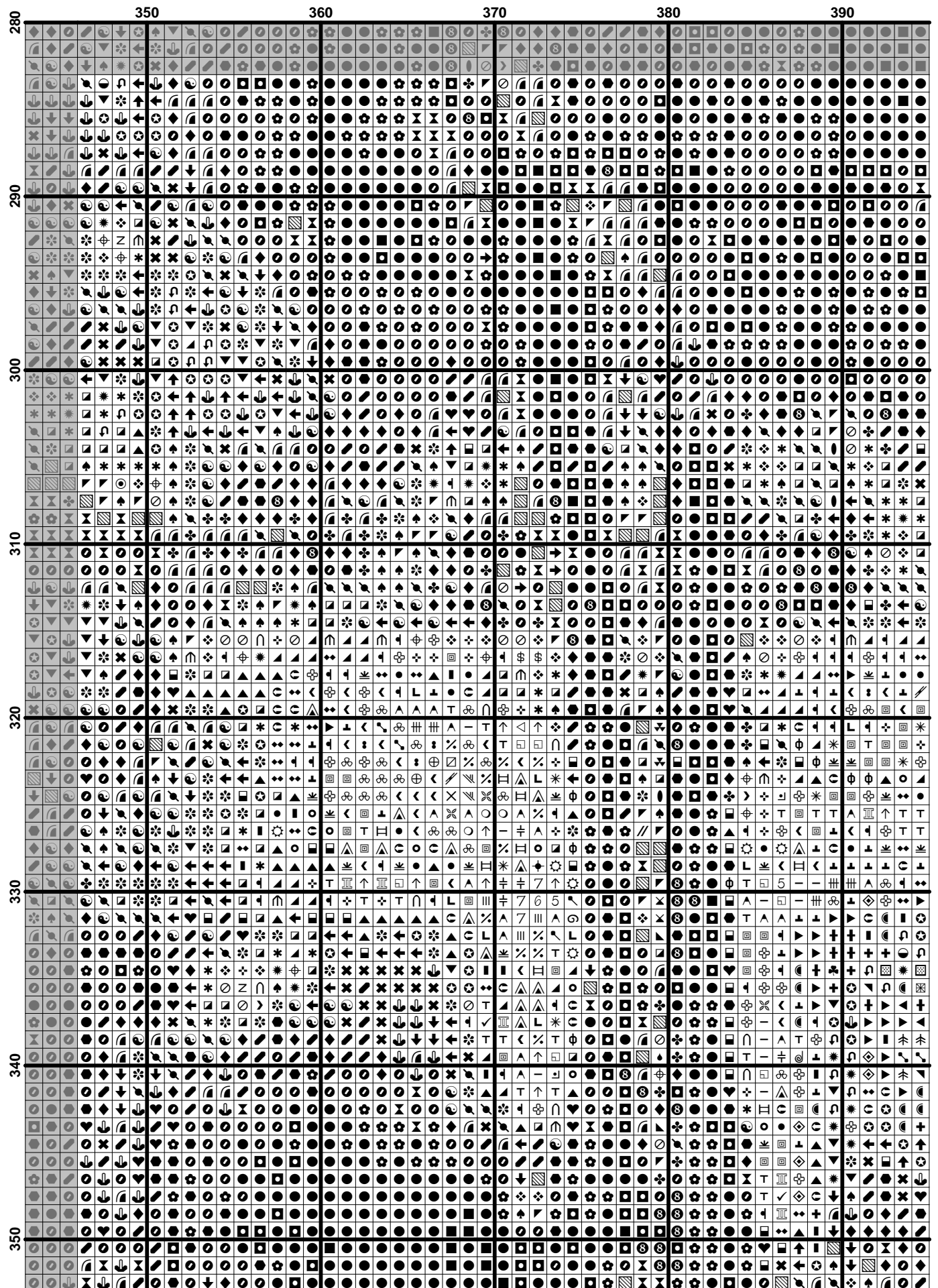


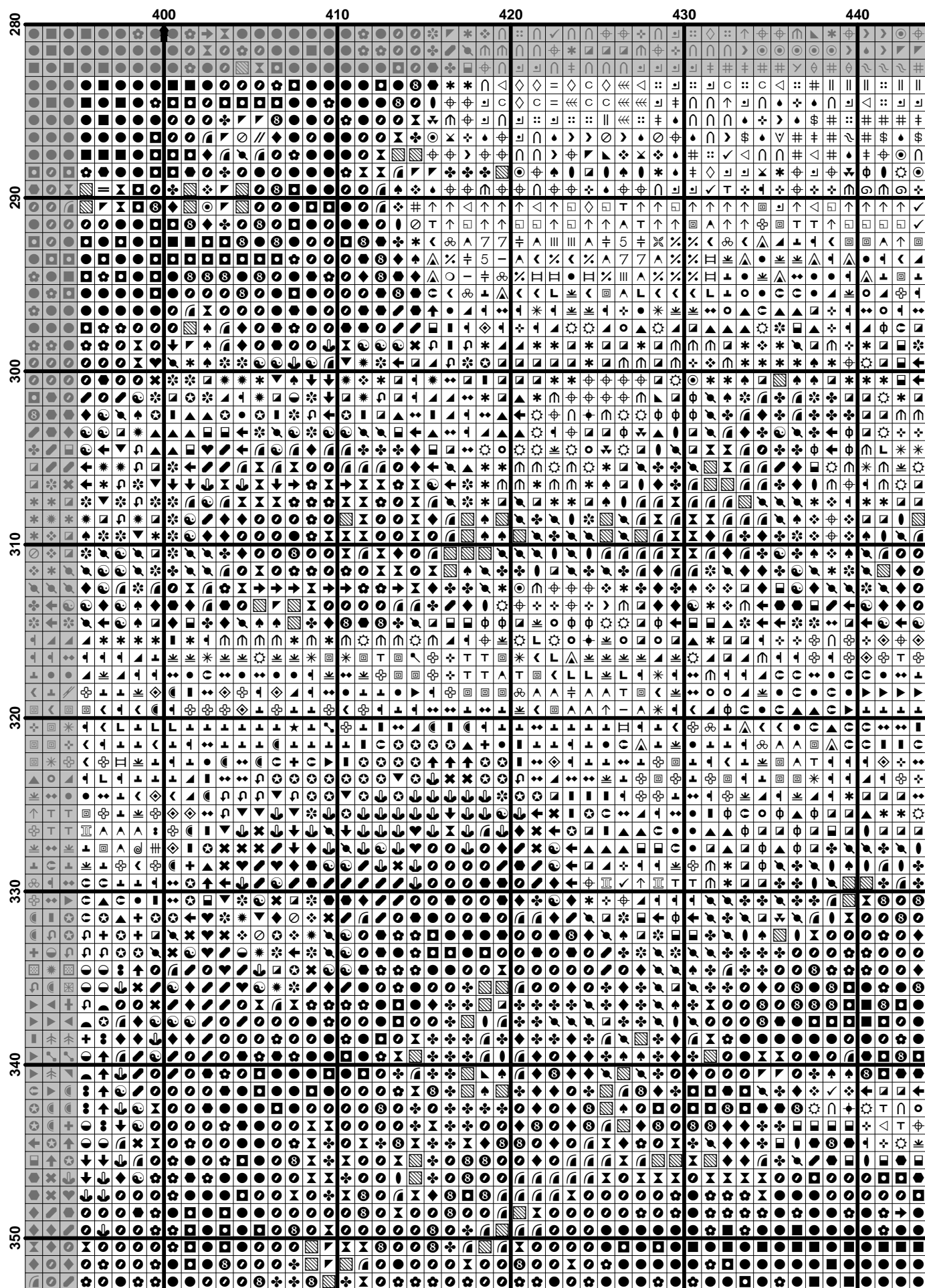


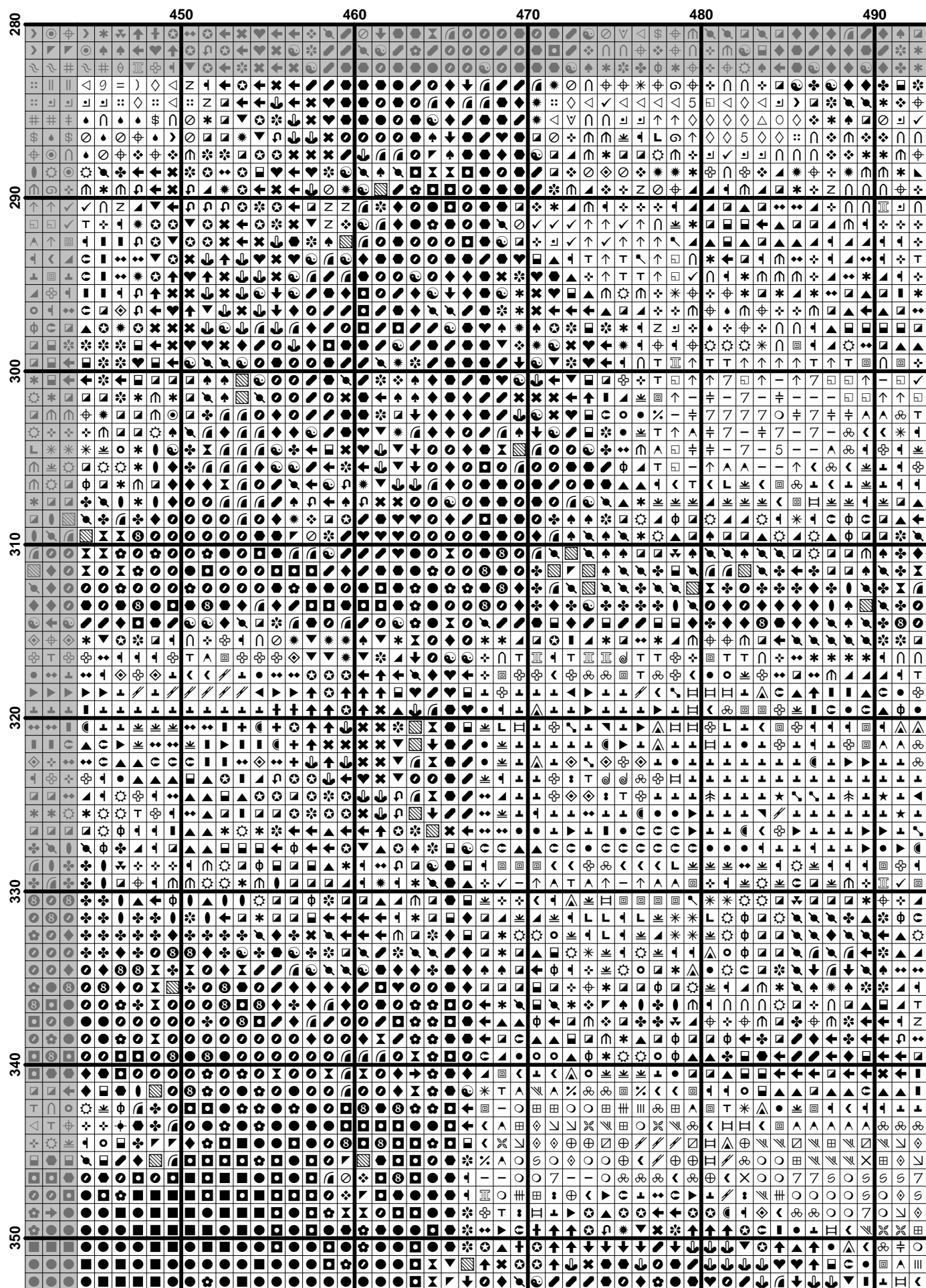


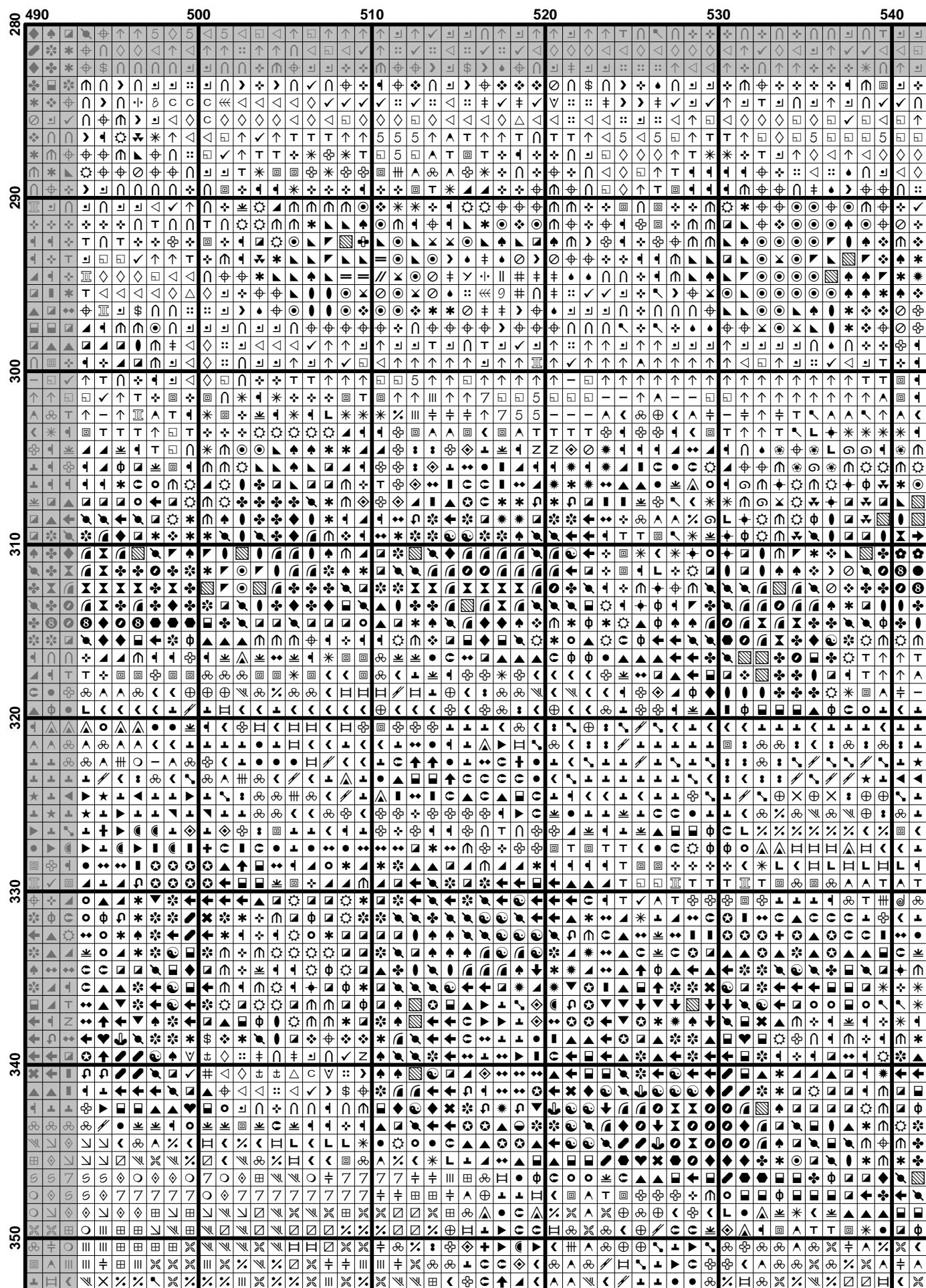


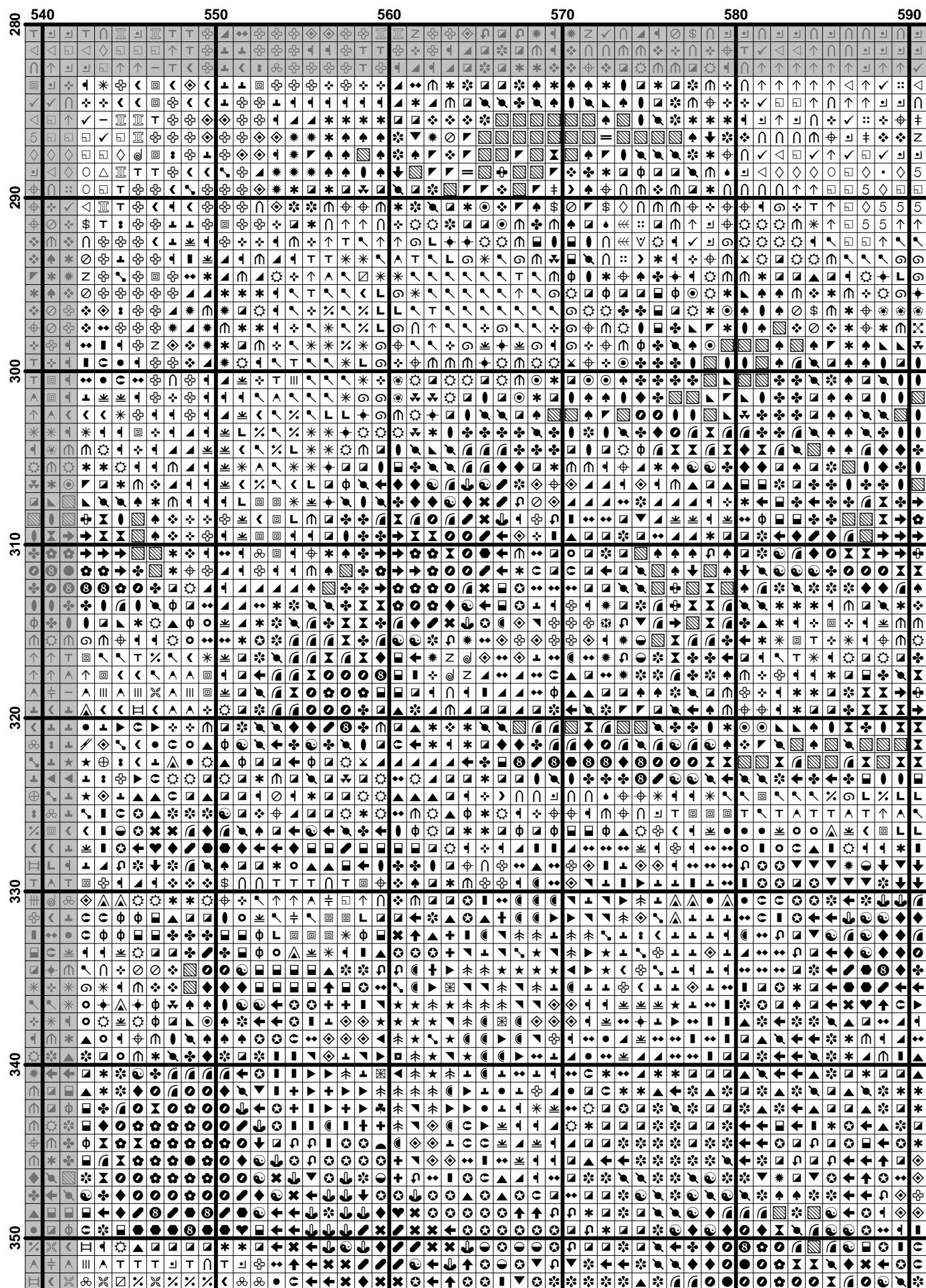


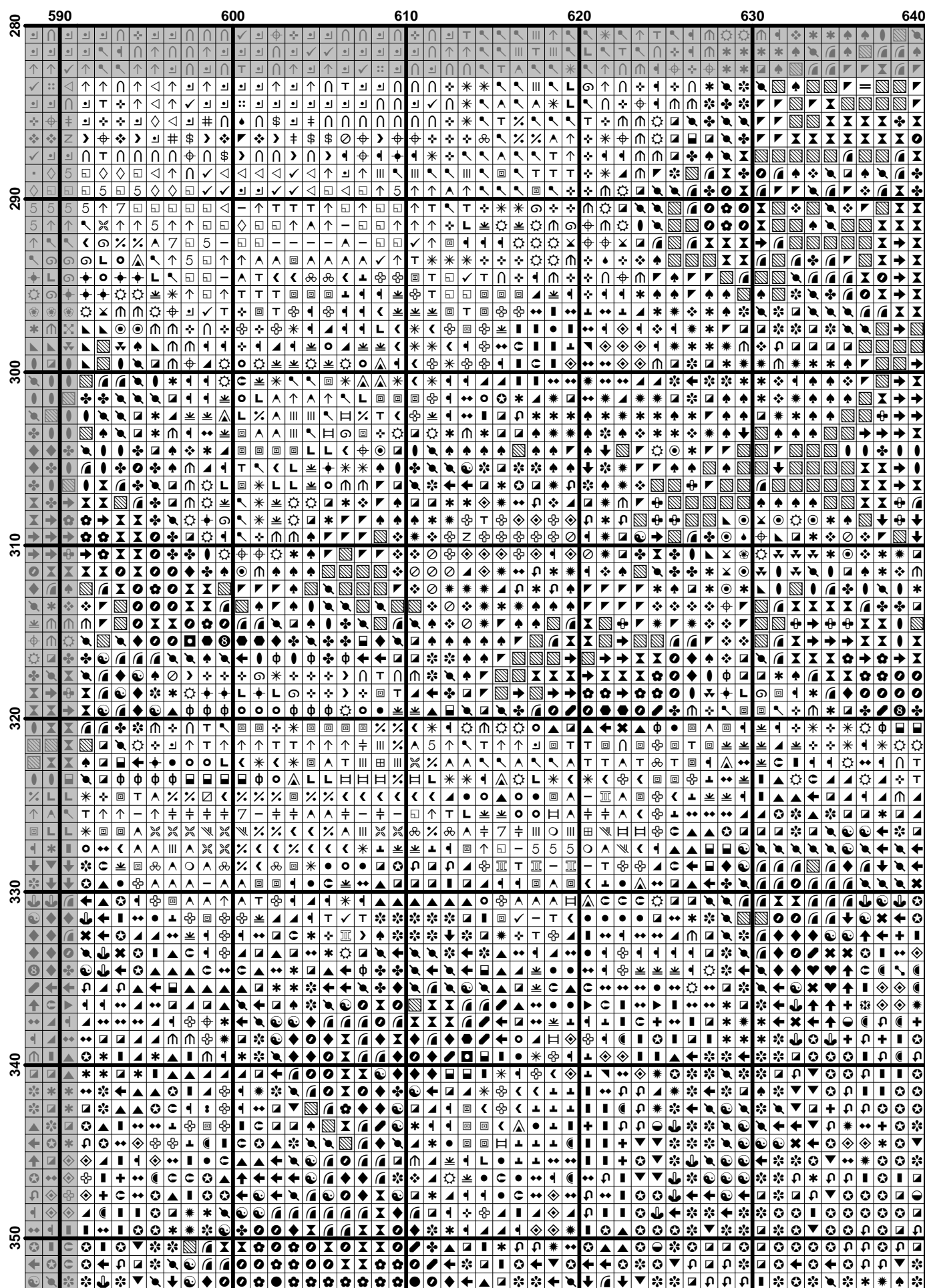


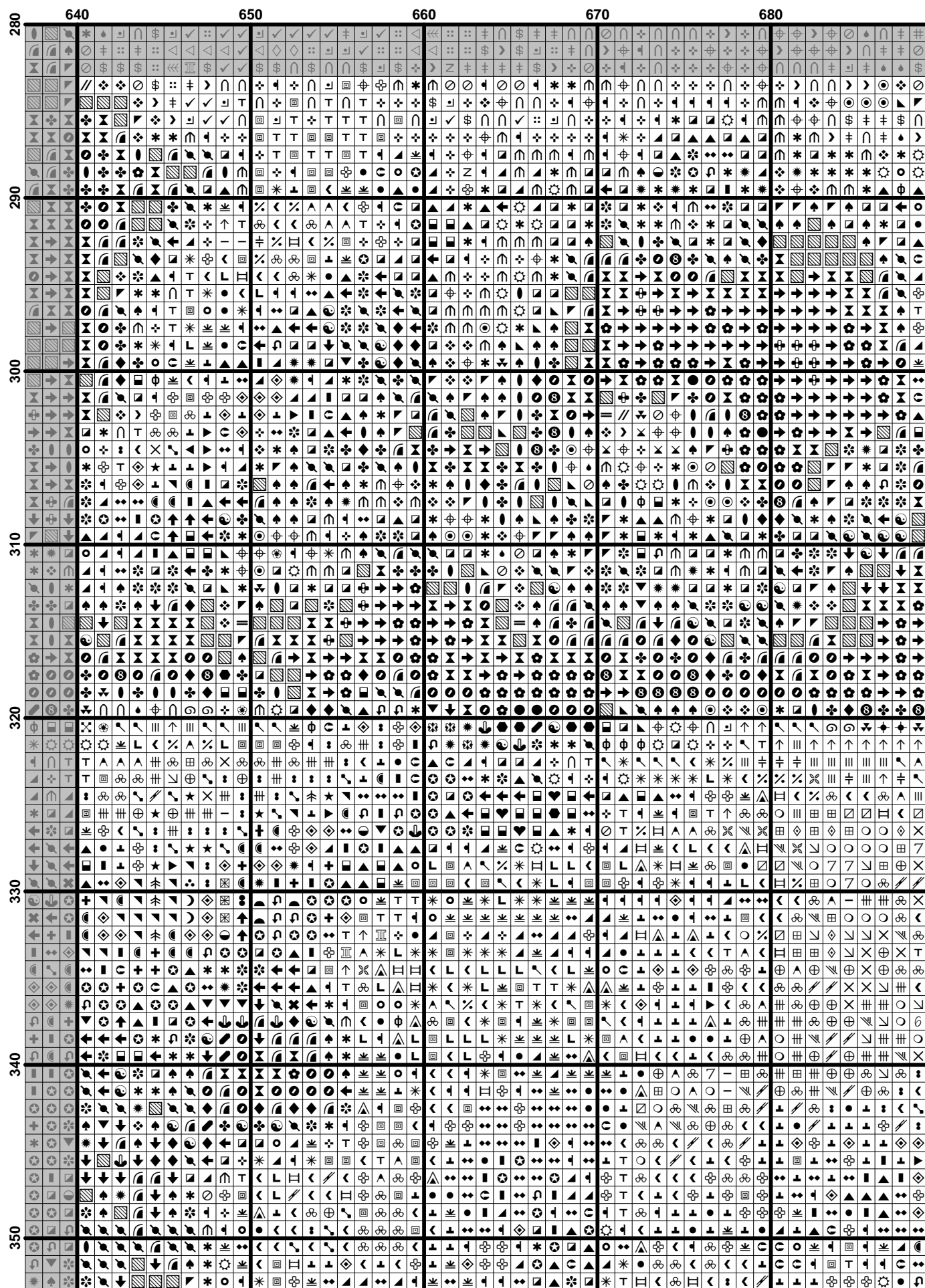


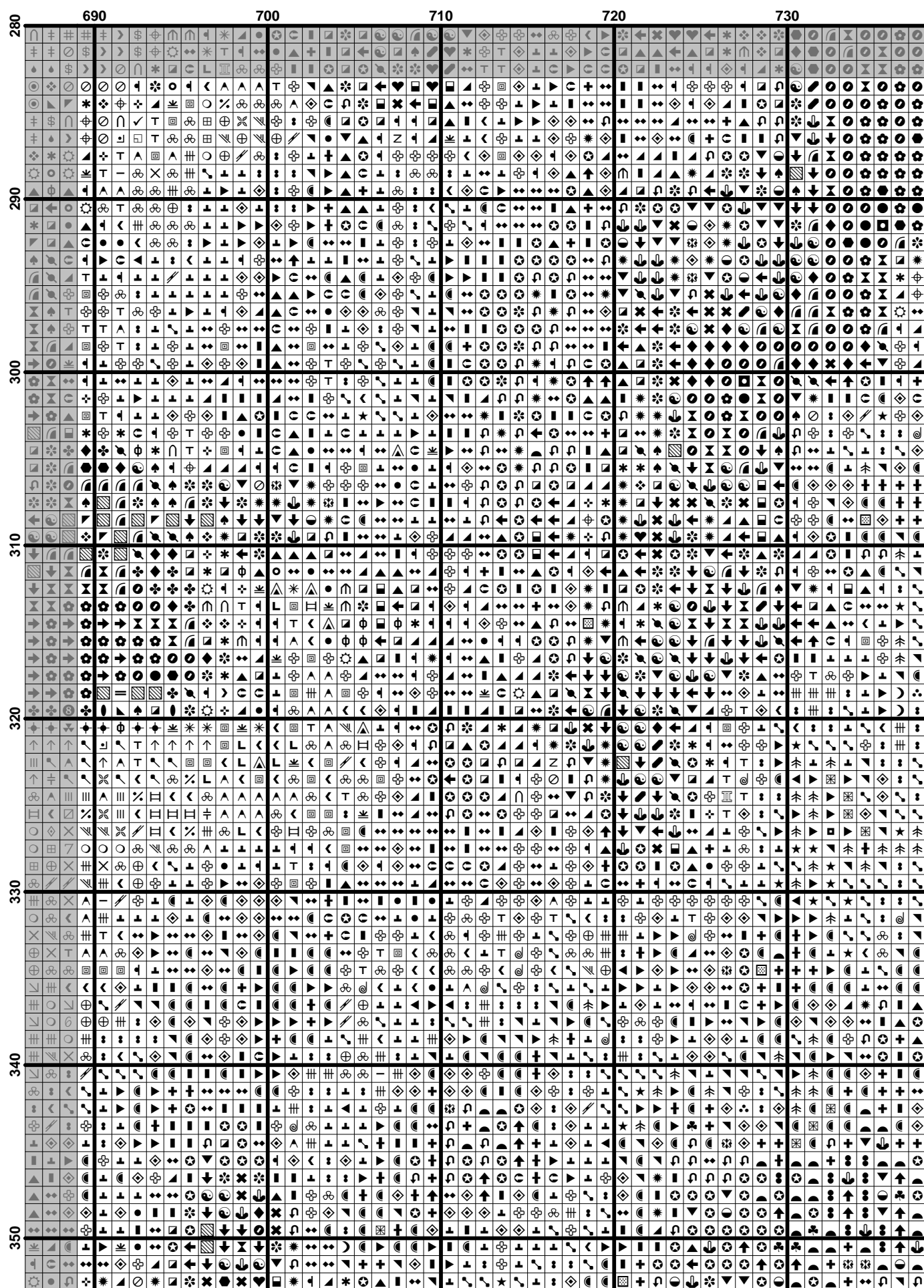


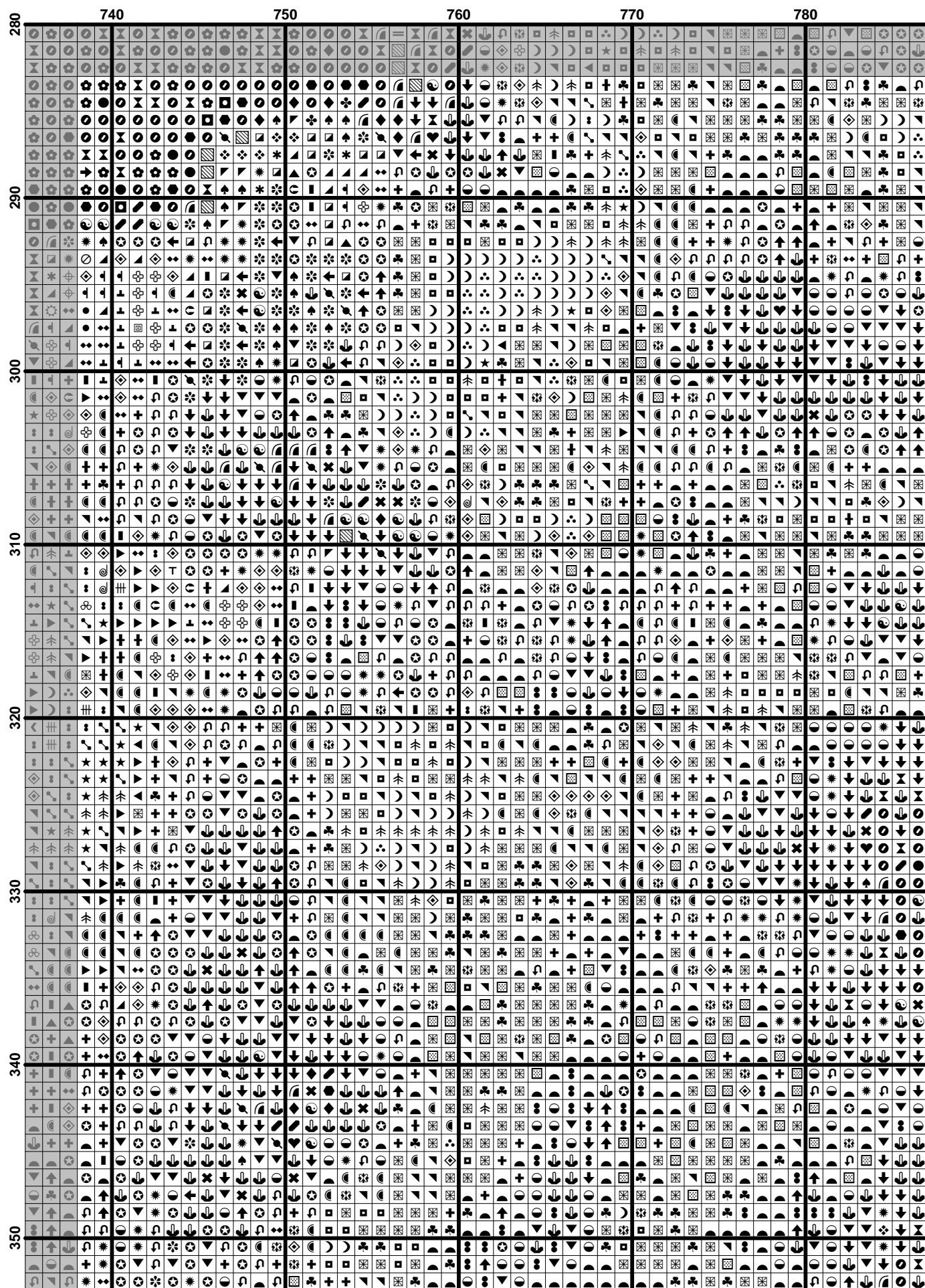


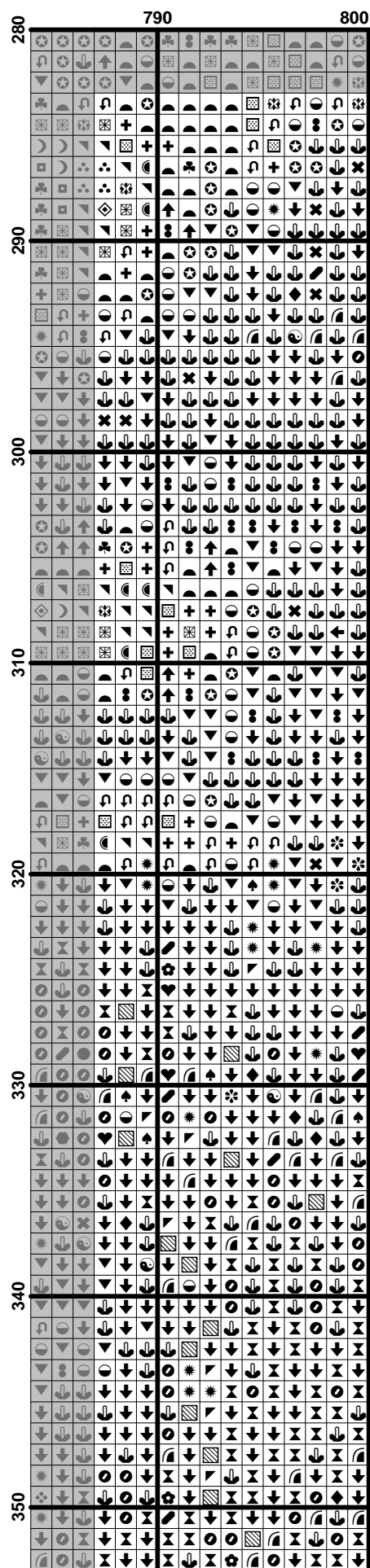


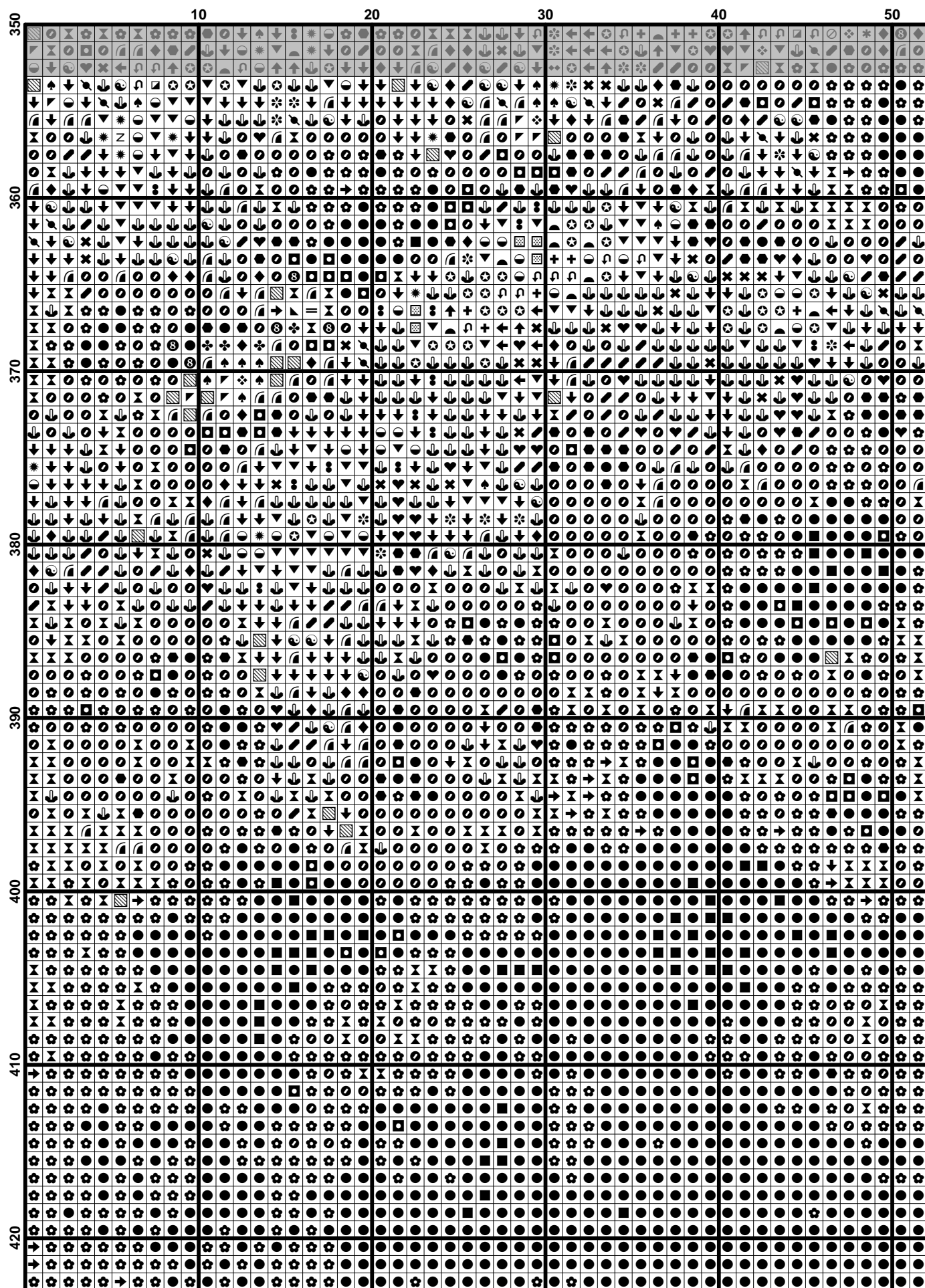


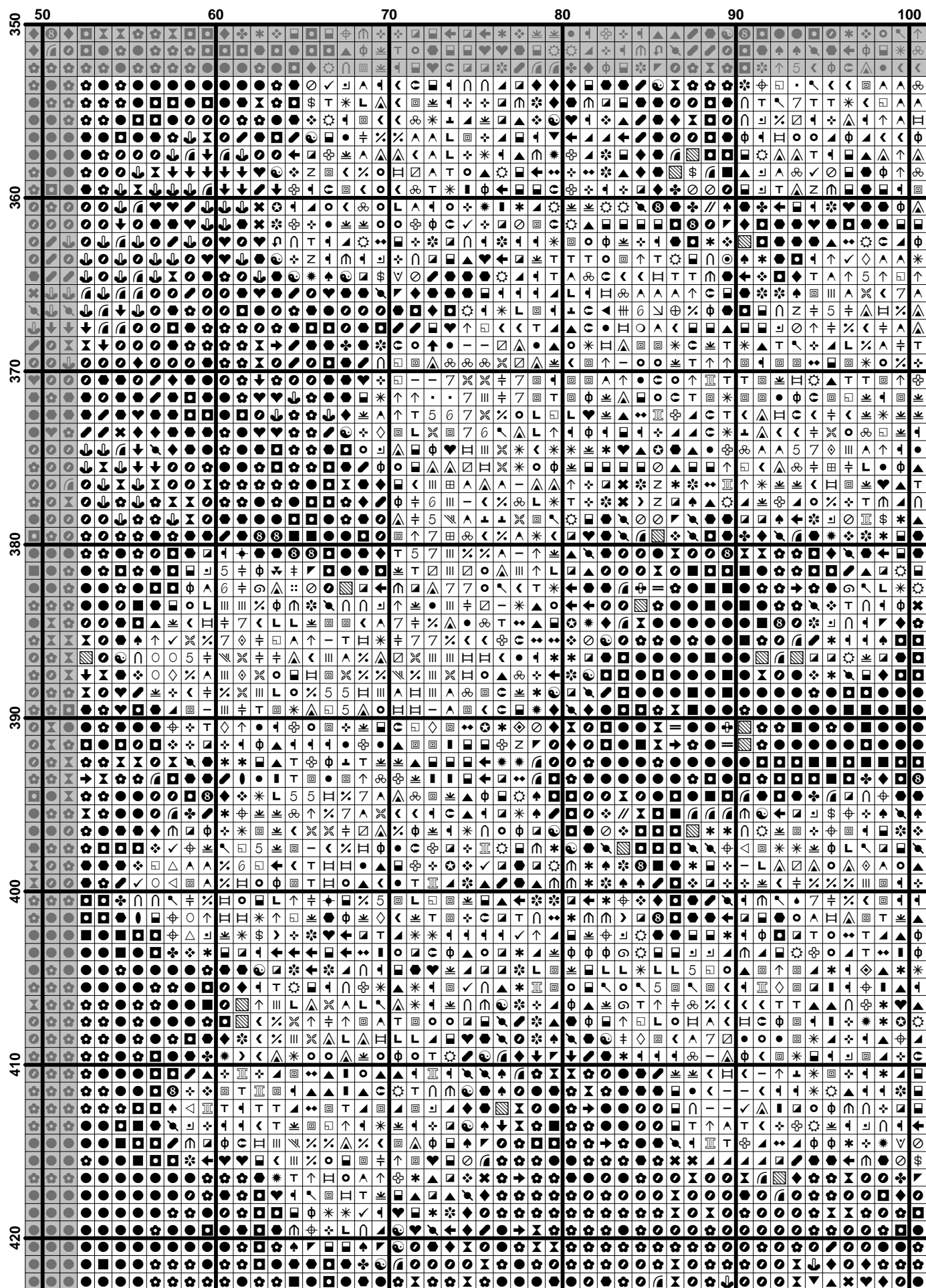


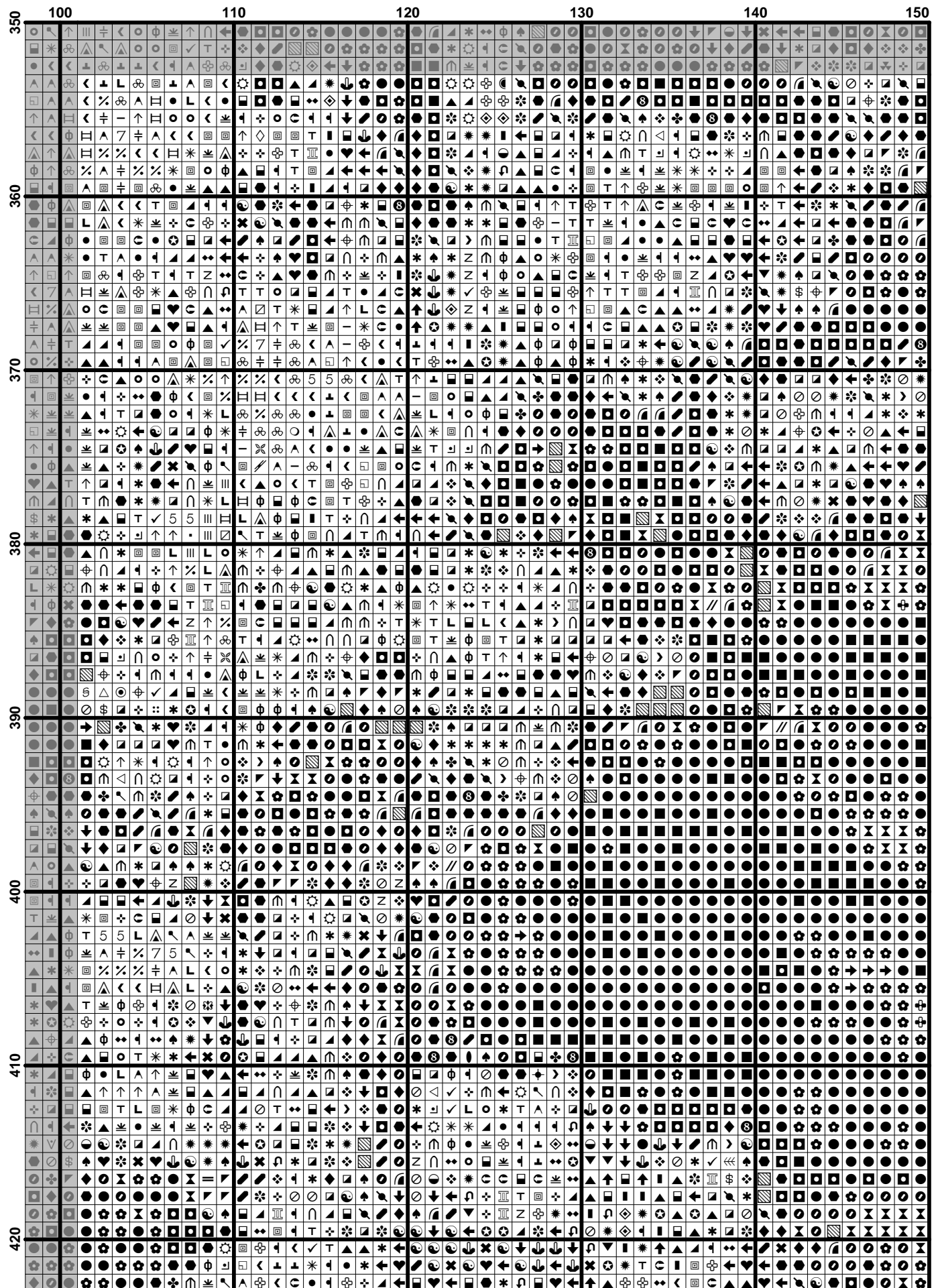


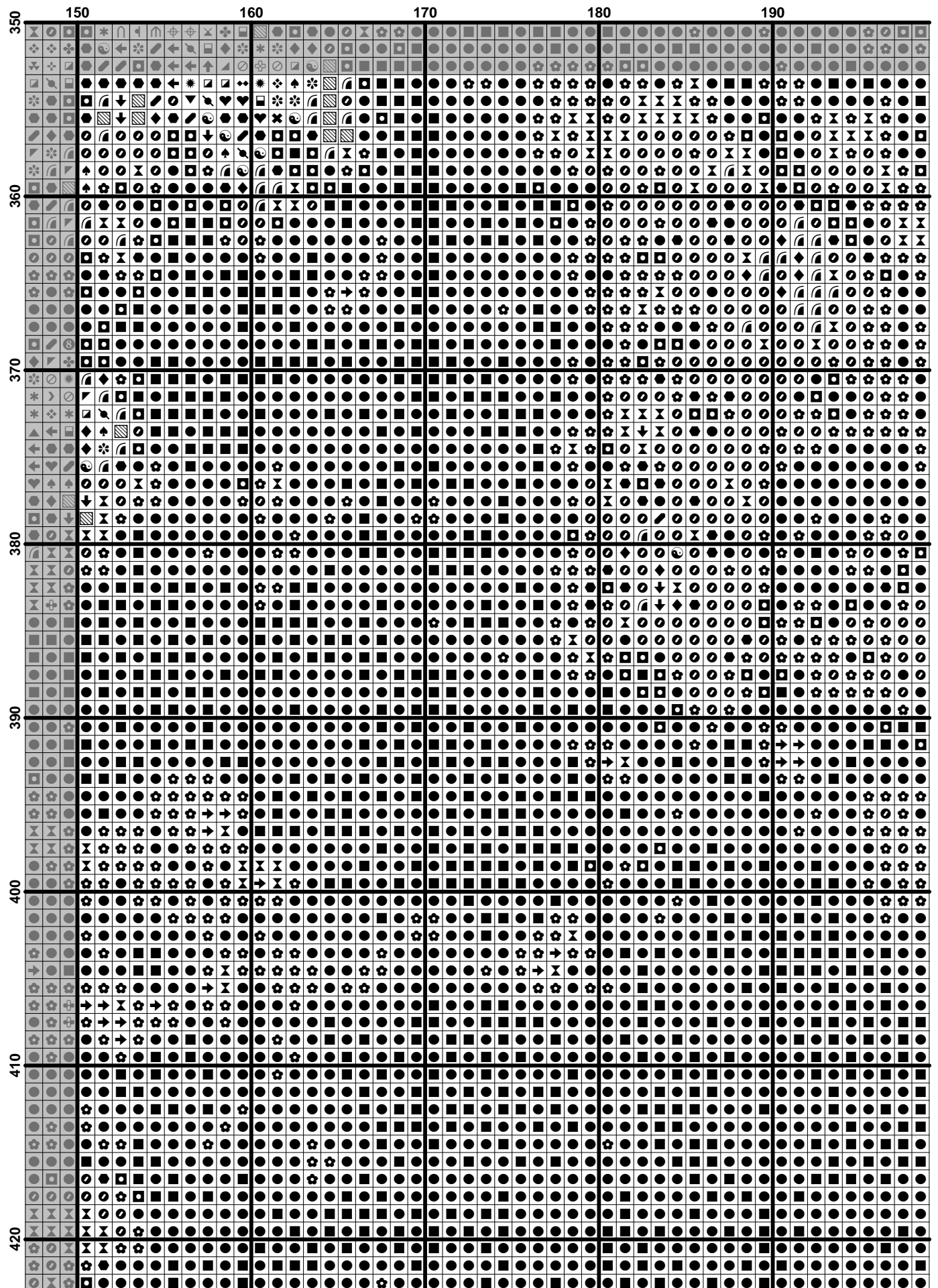


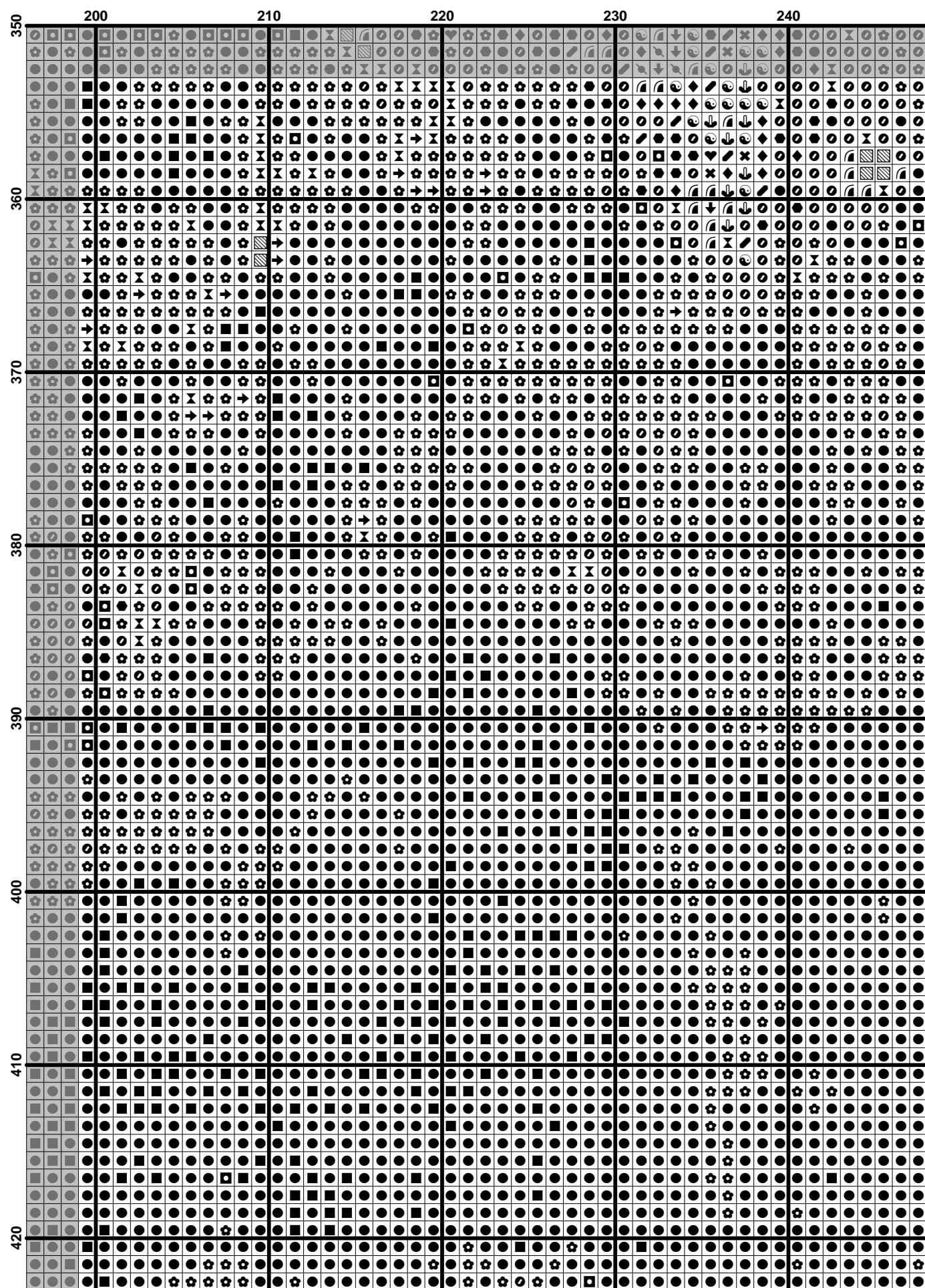


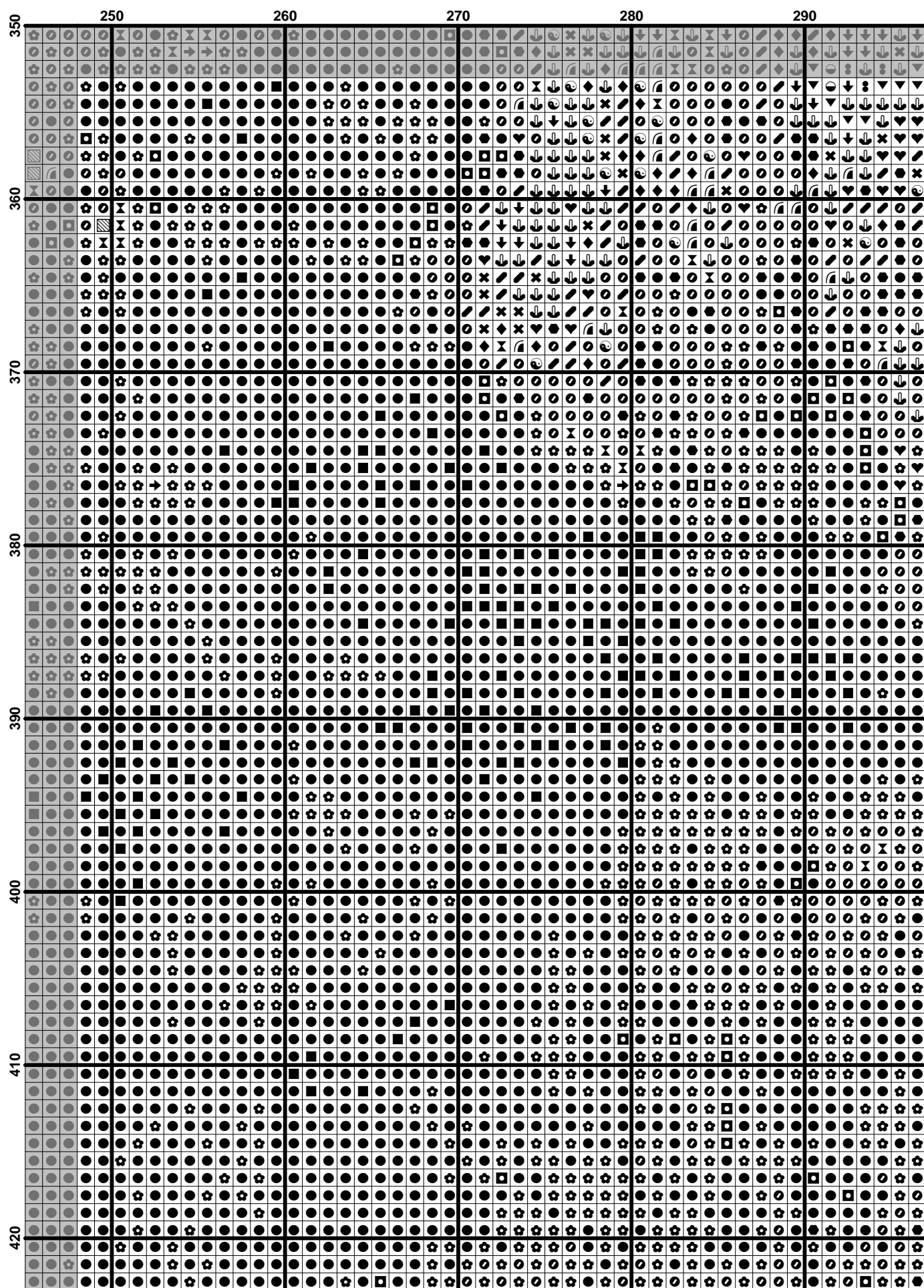


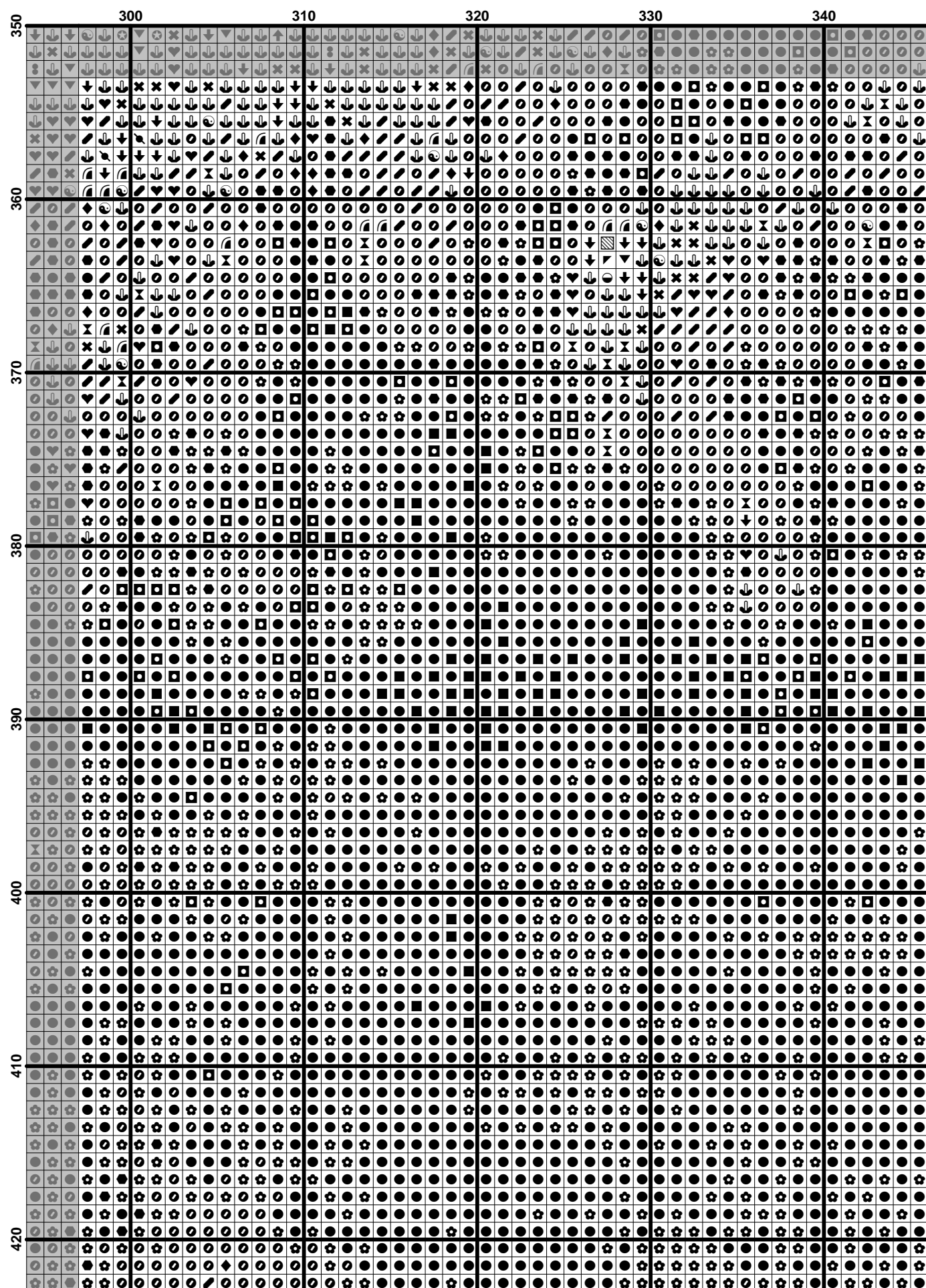


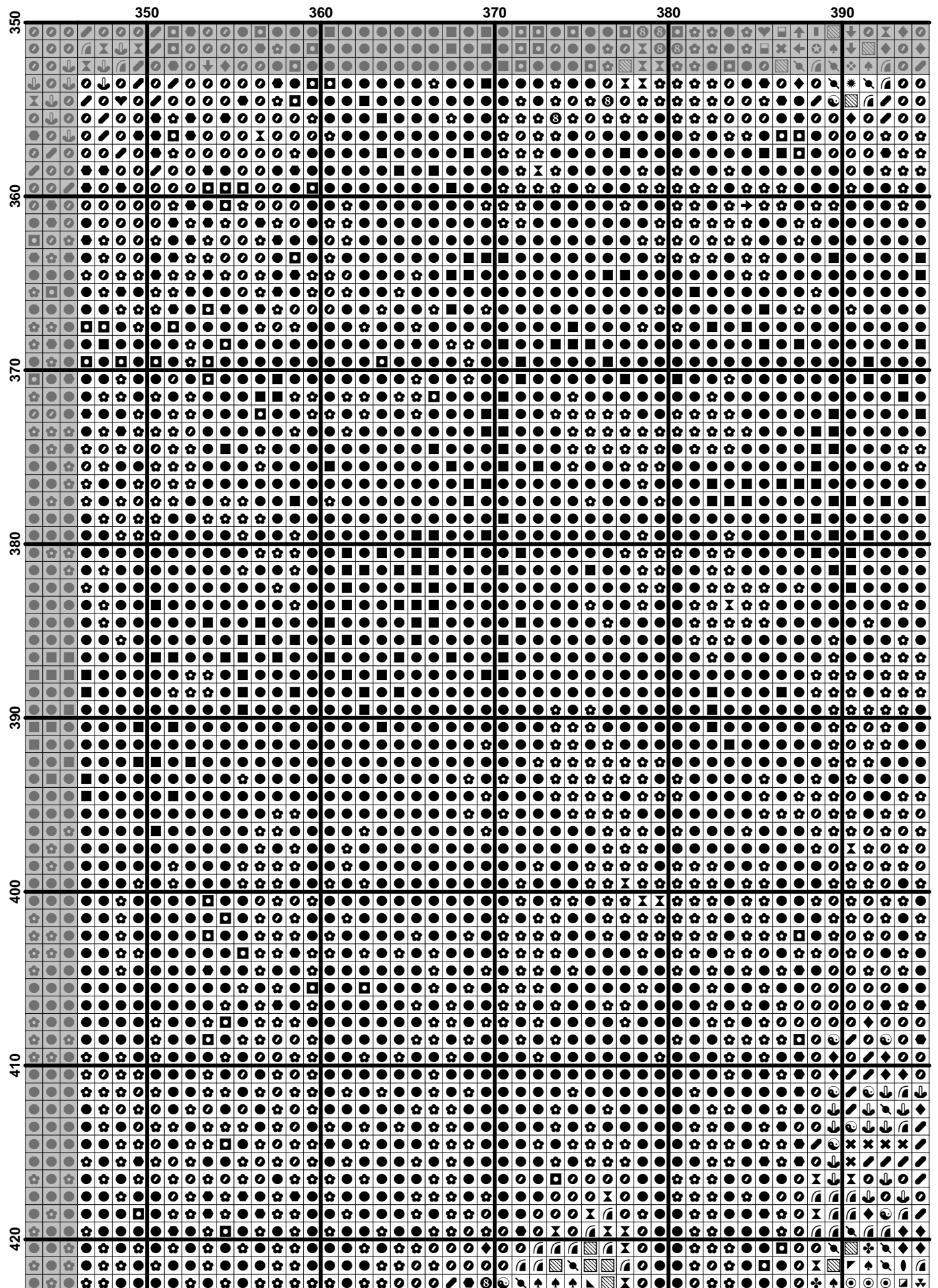


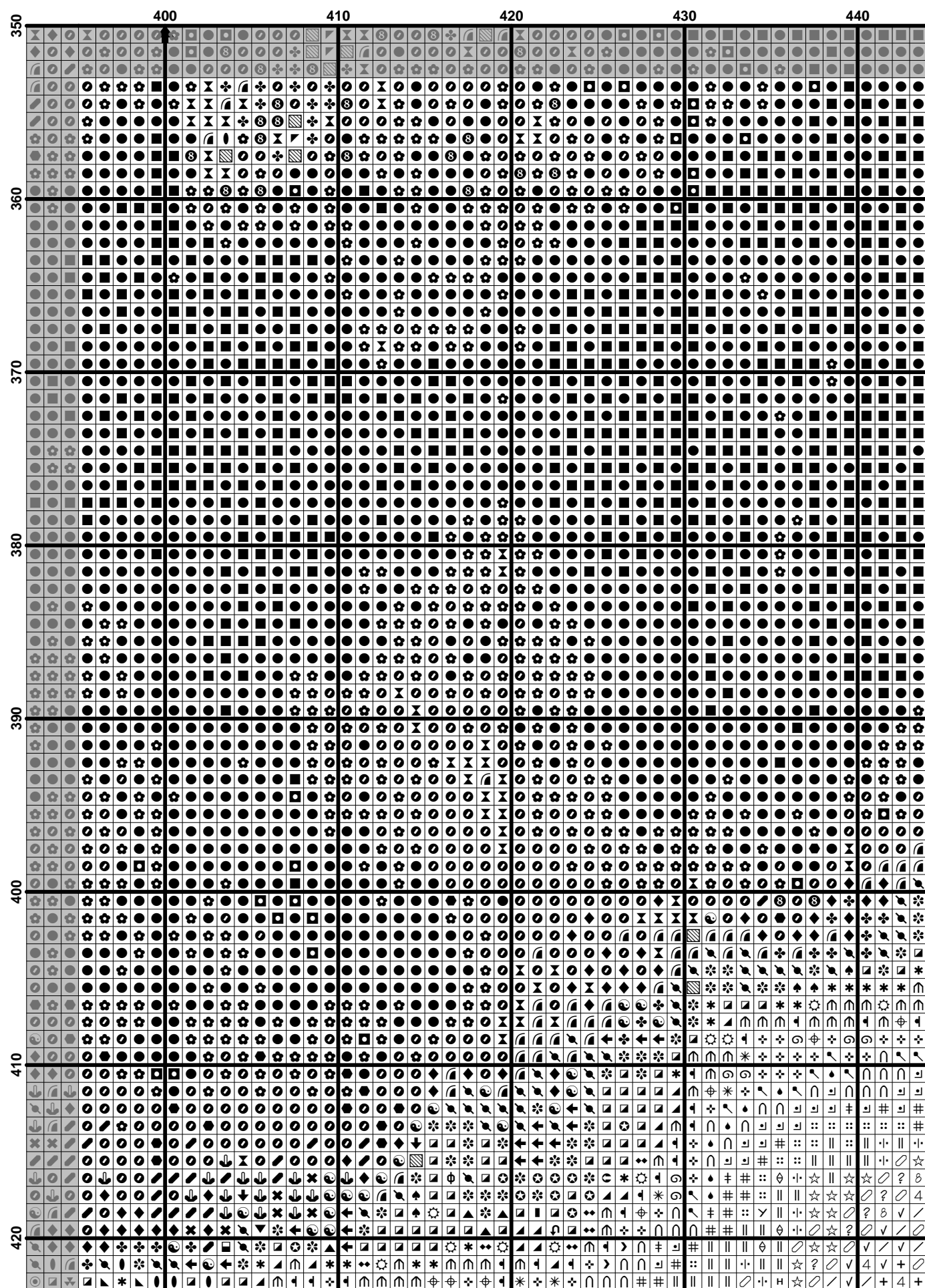






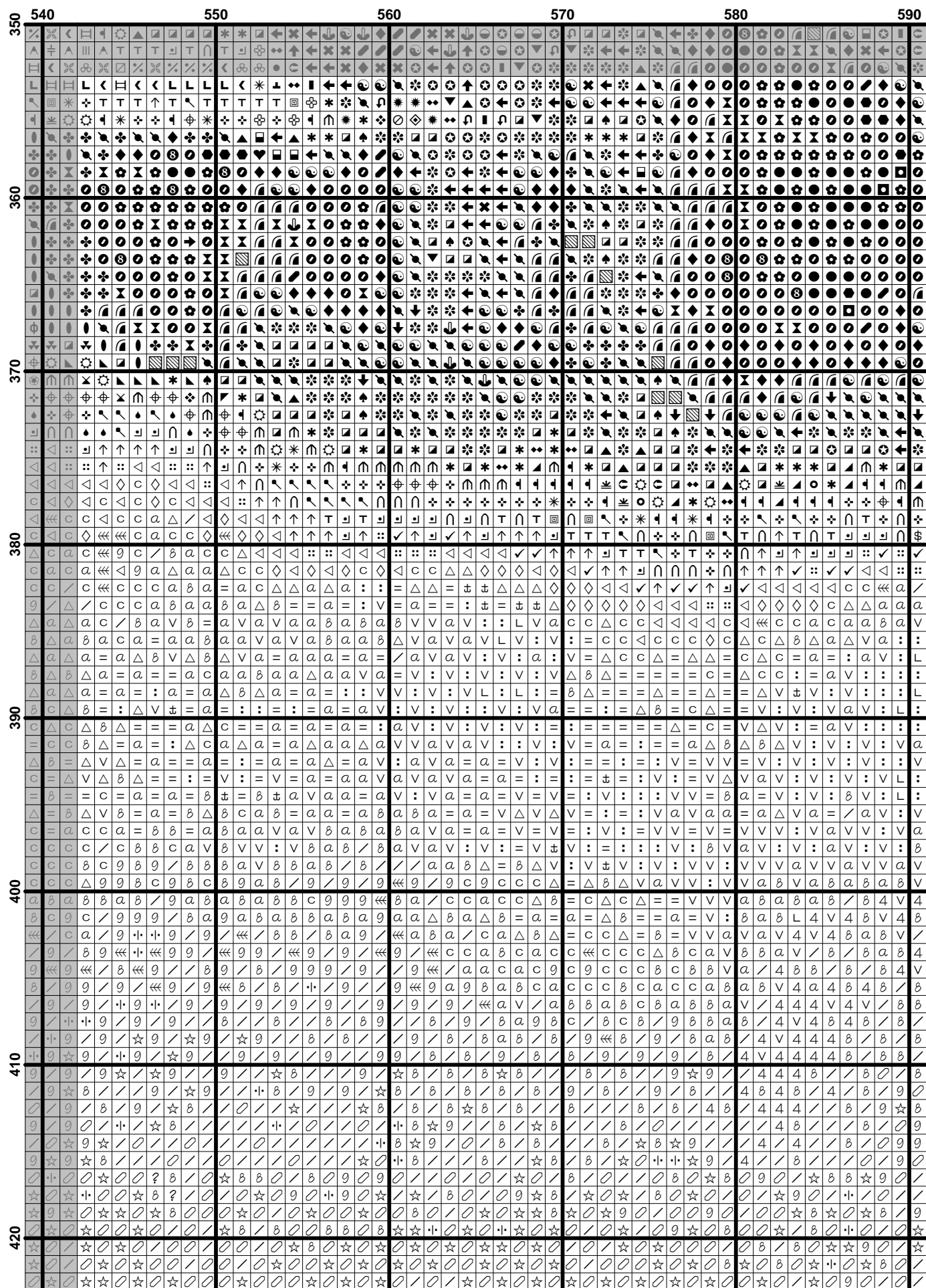






	450	460	470	480	490
350					
360					
370					
380					
390					
400					
410					
420					

350	490	500	510	520	530	540
360	370	380	390	400	410	420



	590	600	610	620	630	640
350						
360						
370						
380						
390						
400						
410						
420						

	640	650	660	670	680
350					
360					
370					
380					
390					
400					
410					
420					

