

# 1136 Roses, Tulips, Morning Glory



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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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Roses,Tulips, Morning Glory												
<div>Stitch Count</div> <div>Horizontal: 600</div> <div>Vertical: 742</div>					<div>Recommended Fabric Color</div> <div>Antique White</div>							
<p>This table tells the size of the pattern (without any margins) and the size of the fabric required to stitch the pattern (including recommended margins). 3 inch margins have been added on each side in the 'Including Margins' row.</p> <p>The sizes are given for 14, 16 and 18 stitches per inch fabrics.</p> <p>Make sure to use the 'Including Margins' row when cutting the piece of fabric to be used. Also make sure that 3 inch margins are enough for your stitching technique and add more margin areas if necessary.</p>												
	14				16				18			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	109	42.75	135	52.87	95	37.4	118	46.26	85	33.25	105	41.125
Including Margins:	125	49	151	59	111	44	134	53	101	40	121	48
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	152	59.85	189	74.01	127	49.87	157	61.68	63	24.93	78	30.84
Including Margins:	168	66	205	81	143	56	173	68	79	31	94	37
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	61	23.94	75	29.6	58	23.01	72	28.46	56	22.16	70	27.41
Including Margins:	77	30	91	36	74	30	88	35	72	29	86	34
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	54	21.37	67	26.43	50	19.95	63	24.67	47	18.7	59	23.13
Including Margins:	70	28	83	33	66	26	79	31	63	25	75	30

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
τ	223	Shell Pink-LT
■	310	Black
▼	311	Navy Blue-MD
∩	312	Baby Blue-VY DK
#	316	Antique Mauve-MD
◇	317	Pewter Gray
♂	318	Steel Gray-LT
♥	336	Navy Blue
▲	370	Mustard-MD
◎	371	Mustard
z	414	Steel Gray-DK
∪	415	Pearl Gray
▷	420	Hazelnut Brown-DK
⊠	422	Hazelnut Brown-LT
✦	434	Brown-LT
↘	435	Brown-VY LT
√	437	Tan-LT
	452	Shell Gray-MD
+	520	Fern Green-DK
⌋	522	Fern Green
≡	524	Fern Green-VY LT
♠	611	Drab Brown
‡	612	Drab Brown-LT
4	613	Drab Brown-VY LT
✪	632	Desert Sand-UL VY DK
∇	647	Beaver Gray-MD
3	648	Beaver Gray-LT
⊥	677	Old Gold-VY LT
⊠	680	Old Gold-DK
↔	725	Topaz
)	726	Topaz-LT
⊠	729	Old Gold-MD
∩	734	Olive Green-LT
e	738	Tan-VY LT
=	754	Peach-LT
5	778	Antique Mauve-VY LT
✓	783	Topaz-MD
n	819	Baby Pink-LT
■	823	Navy Blue-DK
*	825	Blue-DK
⌘	844	Beaver Brown-UL DK

↓	902	Garnet-VY DK
H	927	Gray Green-LT
□	928	Gray Green-VY LT
C	930	Antique Blue-DK
X	931	Antique Blue-MD
ϕ	932	Antique Blue-LT
☼	938	Coffee Brown-UL DK
I	963	Dusty Rose-UL VY LT
o	975	Golden Brown-DK
↓	3021	Brown Gray-VY DK
∅	3024	Brown Gray-VY LT
⋈	3041	Antique Violet-MD
↑	3045	Yellow Beige-DK
α	3046	Yellow Beige-MD
γ	3052	Green Gray-MD
<	3072	Beaver Gray-VY LT
●	3362	Pine Green-DK
♣	3685	Mauve-DK
⊕	3689	Mauve-LT
▲	3721	Shell Pink-DK
⊕	3726	Antique Mauve-DK
☆	3727	Antique Mauve-LT
▼	3740	Antique Violet-DK
+	3743	Antique Violet-VY LT
L	3753	Antique Blue-UL VY LT
∞	3756	Baby Blue-UL VY LT
=	3768	Gray Green-DK
~	3770	Tawny-VY LT
☾	3781	Mocha Brown-DK
⊕	3802	Antique Mauve-VY DK
†	3815	Celadon Green-DK
∩	3820	Straw-DK
◇	3823	Yellow-UL Pale
◁	3828	Hazelnut Brown
H	3830	Terra Cotta-MD
▨	3834	Grape-DK
⊕	3835	Grape-MD
..	3836	Grape-LT
⌘	3854	Autumn Gold-MD
☾	3861	Cocoa-LT
L	3862	Mocha Beige-DK
-	3864	Mocha Beige-LT
u	3865	Winter White
(	3866	Mocha Brown-UL VY LT

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
⌘	793	Cornflower Blue-MD	318	Steel Gray-LT
⊗	310	Black	3799	Pewter Gray-VY DK
m	318	Steel Gray-LT	415	Pearl Gray
▲	317	Pewter Gray	327	Violet-VY DK
↑	938	Coffee Brown-UL DK	3021	Brown Gray-VY DK

▲	3021	Brown Gray-VY DK	3781	Mocha Brown-DK
←	3834	Grape-DK	3799	Pewter Gray-VY DK
●	938	Coffee Brown-UL DK	310	Black
☞	938	Coffee Brown-UL DK	3799	Pewter Gray-VY DK
➔	938	Coffee Brown-UL DK	844	Beaver Brown-UL DK
⦿	3021	Brown Gray-VY DK	3051	Green Gray-DK
✱	844	Beaver Brown-UL DK	3021	Brown Gray-VY DK
◀	3362	Pine Green-DK	844	Beaver Brown-UL DK
✱	645	Beaver Gray-VY DK	3781	Mocha Brown-DK
🏠	930	Antique Blue-DK	3799	Pewter Gray-VY DK
🏠	311	Navy Blue-MD	930	Antique Blue-DK
✕	930	Antique Blue-DK	823	Navy Blue-DK
//	931	Antique Blue-MD	312	Baby Blue-VY DK
☺	312	Baby Blue-VY DK	930	Antique Blue-DK
田	414	Steel Gray-DK	927	Gray Green-LT
卅	318	Steel Gray-LT	931	Antique Blue-MD
回	3041	Antique Violet-MD	931	Antique Blue-MD
▣	3362	Pine Green-DK	3781	Mocha Brown-DK
▲	632	Desert Sand-UL VY DK	645	Beaver Gray-VY DK
✱	3781	Mocha Brown-DK	632	Desert Sand-UL VY DK
Φ	327	Violet-VY DK	930	Antique Blue-DK
●	902	Garnet-VY DK	938	Coffee Brown-UL DK
▼	311	Navy Blue-MD	327	Violet-VY DK
✱	938	Coffee Brown-UL DK	3834	Grape-DK
♠	311	Navy Blue-MD	317	Pewter Gray
⬆	3041	Antique Violet-MD	312	Baby Blue-VY DK
✱	317	Pewter Gray	926	Gray Green-MD
٪	931	Antique Blue-MD	553	Violet
△	926	Gray Green-MD	931	Antique Blue-MD
⬆	645	Beaver Gray-VY DK	3346	Hunter Green
☼	3346	Hunter Green	3781	Mocha Brown-DK
✱	312	Baby Blue-VY DK	553	Violet
7	554	Violet-LT	415	Pearl Gray
●	310	Black	3834	Grape-DK
◎	3346	Hunter Green	3362	Pine Green-DK
❖	926	Gray Green-MD	930	Antique Blue-DK
✱	317	Pewter Gray	844	Beaver Brown-UL DK
β	415	Pearl Gray	3753	Antique Blue-UL VY LT
δ	3756	Baby Blue-UL VY LT	819	Baby Pink-LT
🏠	3346	Hunter Green	3860	Cocoa
💰	522	Fern Green	926	Gray Green-MD
↑	3756	Baby Blue-UL VY LT	762	Pearl Gray-VY LT
○	3689	Mauve-LT	3072	Beaver Gray-VY LT
∩	3864	Mocha Beige-LT	647	Beaver Gray-MD
«	3756	Baby Blue-UL VY LT	3865	Winter White
○	209	Lavender-DK	318	Steel Gray-LT
☼	311	Navy Blue-MD	3842	Wedgewood-DK
●	310	Black	895	Hunter Green-VY DK
†	909	Emerald Green-VY DK	3799	Pewter Gray-VY DK
◆	310	Black	909	Emerald Green-VY DK
☾	825	Blue-DK	312	Baby Blue-VY DK
▷	3753	Antique Blue-UL VY LT	3072	Beaver Gray-VY LT
1	3770	Tawny-VY LT	3865	Winter White
^	3770	Tawny-VY LT	3866	Mocha Brown-UL VY LT
6	726	Topaz-LT	3827	Golden Brown-Pale
5	3820	Straw-DK	977	Golden Brown-LT
◇	726	Topaz-LT	729	Old Gold-MD
::	734	Olive Green-LT	3045	Yellow Beige-DK
×	680	Old Gold-DK	3045	Yellow Beige-DK

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♠	729	Old Gold-MD	977	Golden Brown-LT
III	611	Drab Brown	734	Olive Green-LT
>	726	Topaz-LT	445	Lemon-LT
:	3024	Brown Gray-VY LT	3072	Beaver Gray-VY LT
☒	645	Beaver Gray-VY DK	3052	Green Gray-MD
III	3782	Mocha Brown-LT	611	Drab Brown
♠	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
✕	825	Blue-DK	826	Blue-MD
♣	3827	Golden Brown-Pale	445	Lemon-LT
⌘	926	Gray Green-MD	645	Beaver Gray-VY DK
⌘	520	Fern Green-DK	938	Coffee Brown-UL DK
♡	3046	Yellow Beige-MD	677	Old Gold-VY LT
♦♦	367	Pistachio Green-DK	520	Fern Green-DK
♣	611	Drab Brown	3347	Yellow Green-MD
♠	680	Old Gold-DK	435	Brown-VY LT
∅	434	Brown-LT	611	Drab Brown
∅	434	Brown-LT	435	Brown-VY LT
✓	3864	Mocha Beige-LT	223	Shell Pink-LT
9	3024	Brown Gray-VY LT	778	Antique Mauve-VY LT
♣	3835	Grape-MD	316	Antique Mauve-MD
✕	3726	Antique Mauve-DK	3803	Mauve-MD
▶	3834	Grape-DK	3740	Antique Violet-DK
☒	3803	Mauve-MD	3834	Grape-DK
△	3743	Antique Violet-VY LT	3689	Mauve-LT
☒	3685	Mauve-DK	3721	Shell Pink-DK
●	3799	Pewter Gray-VY DK	520	Fern Green-DK
✕	371	Mustard	3347	Yellow Green-MD
☒	371	Mustard	611	Drab Brown
✓	613	Drab Brown-VY LT	677	Old Gold-VY LT
/	3827	Golden Brown-Pale	3046	Yellow Beige-MD
⇒	677	Old Gold-VY LT	738	Tan-VY LT
↓	524	Fern Green-VY LT	437	Tan-LT
☒	3346	Hunter Green	3862	Mocha Beige-DK
☒	3347	Yellow Green-MD	502	Blue Green
◀	502	Blue Green	367	Pistachio Green-DK
⊕	3721	Shell Pink-DK	370	Mustard-MD
2	452	Shell Gray-MD	316	Antique Mauve-MD
•	762	Pearl Gray-VY LT	3072	Beaver Gray-VY LT
□	762	Pearl Gray-VY LT	963	Dusty Rose-UL VY LT
☒	3835	Grape-MD	3836	Grape-LT
★	502	Blue Green	520	Fern Green-DK
◦	963	Dusty Rose-UL VY LT	819	Baby Pink-LT
☒	3835	Grape-MD	3727	Antique Mauve-LT
●	902	Garnet-VY DK	3802	Antique Mauve-VY DK
⊕	554	Violet-LT	3608	Plum-VY LT
☾	3835	Grape-MD	327	Violet-VY DK
♣	3781	Mocha Brown-DK	902	Garnet-VY DK
☒	371	Mustard	420	Hazelnut Brown-DK
■	3799	Pewter Gray-VY DK	367	Pistachio Green-DK
☒	3721	Shell Pink-DK	611	Drab Brown
◎	370	Mustard-MD	420	Hazelnut Brown-DK



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

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
209	Lavender-DK	53	20	50	19	45	17
223	Shell Pink-LT	166	65	158	62	142	55
310	Black	43973	17312	41879	16487	37691	14838
311	Navy Blue-MD	593	233	565	222	508	200
312	Baby Blue-VY DK	615	242	585	230	527	207
316	Antique Mauve-MD	506	199	482	189	434	170
317	Pewter Gray	617	242	588	231	529	208
318	Steel Gray-LT	426	167	406	159	365	143
327	Violet-VY DK	329	129	314	123	282	111
336	Navy Blue	180	70	172	67	155	61
367	Pistachio Green-DK	356	140	339	133	305	120
370	Mustard-MD	641	252	610	240	549	216
371	Mustard	336	132	320	125	288	113
414	Steel Gray-DK	357	140	340	133	306	120
415	Pearl Gray	614	241	585	230	526	207
420	Hazelnut Brown-DK	634	249	604	237	543	213
422	Hazelnut Brown-LT	344	135	328	129	295	116
434	Brown-LT	766	301	730	287	657	258
435	Brown-VY LT	1274	501	1213	477	1092	429
437	Tan-LT	394	155	375	147	338	133
445	Lemon-LT	113	44	108	42	97	38
452	Shell Gray-MD	311	122	296	116	266	104
502	Blue Green	293	115	279	109	251	98
520	Fern Green-DK	2332	918	2221	874	1999	787
522	Fern Green	437	172	416	163	374	147
524	Fern Green-VY LT	395	155	376	148	338	133
553	Violet	75	29	72	28	64	25
554	Violet-LT	271	106	258	101	232	91
611	Drab Brown	959	377	913	359	822	323
612	Drab Brown-LT	249	98	237	93	213	83
613	Drab Brown-VY LT	289	113	276	108	248	97
632	Desert Sand-UL VY DK	1588	625	1512	595	1361	535
645	Beaver Gray-VY DK	843	331	803	316	723	284
647	Beaver Gray-MD	359	141	342	134	308	121
648	Beaver Gray-LT	251	98	239	94	215	84
677	Old Gold-VY LT	365	143	347	136	313	123
680	Old Gold-DK	696	274	663	261	596	234
725	Topaz	388	152	369	145	332	130
726	Topaz-LT	484	190	461	181	415	163
729	Old Gold-MD	937	368	893	351	803	316
734	Olive Green-LT	383	150	364	143	328	129
738	Tan-VY LT	316	124	301	118	271	106
754	Peach-LT	34	13	32	12	29	11
762	Pearl Gray-VY LT	601	236	573	225	515	202
778	Antique Mauve-VY LT	279	109	265	104	239	94
783	Topaz-MD	431	169	410	161	369	145
793	Cornflower Blue-MD	43	16	41	16	37	14
819	Baby Pink-LT	859	338	818	322	736	289
823	Navy Blue-DK	809	318	771	303	694	273
825	Blue-DK	170	66	162	63	146	57
826	Blue-MD	26	10	24	9	22	8
844	Beaver Brown-UL DK	5156	2029	4911	1933	4420	1740
895	Hunter Green-VY DK	471	185	449	176	404	159
902	Garnet-VY DK	1260	496	1200	472	1080	425

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909	Emerald Green-VY DK	472	185	449	176	404	159
926	Gray Green-MD	474	186	451	177	406	159
927	Gray Green-LT	454	178	432	170	389	153
928	Gray Green-VY LT	230	90	219	86	197	77
930	Antique Blue-DK	1005	395	957	376	861	338
931	Antique Blue-MD	402	158	383	150	345	135
932	Antique Blue-LT	73	28	70	27	63	24
938	Coffee Brown-UL DK	10061	3961	9582	3772	8624	3395
963	Dusty Rose-UL VY LT	542	213	516	203	464	182
975	Golden Brown-DK	220	86	210	82	189	74
977	Golden Brown-LT	607	238	578	227	521	205
3021	Brown Gray-VY DK	6541	2575	6229	2452	5606	2207
3024	Brown Gray-VY LT	591	232	563	221	507	199
3041	Antique Violet-MD	455	179	433	170	390	153
3045	Yellow Beige-DK	865	340	823	324	741	291
3046	Yellow Beige-MD	493	194	470	185	423	166
3051	Green Gray-DK	794	312	756	297	680	267
3052	Green Gray-MD	254	100	242	95	218	85
3072	Beaver Gray-VY LT	778	306	741	291	667	262
3346	Hunter Green	689	271	657	258	591	232
3347	Yellow Green-MD	211	83	201	79	181	71
3362	Pine Green-DK	1960	771	1867	735	1680	661
3608	Plum-VY LT	113	44	108	42	97	38
3685	Mauve-DK	293	115	279	109	251	98
3689	Mauve-LT	559	220	533	209	479	188
3721	Shell Pink-DK	578	227	551	216	496	195
3726	Antique Mauve-DK	291	114	277	109	249	98
3727	Antique Mauve-LT	451	177	429	168	386	151
3740	Antique Violet-DK	257	101	245	96	220	86
3743	Antique Violet-VY LT	465	183	443	174	399	157
3753	Antique Blue-UL VY LT	231	90	220	86	198	77
3756	Baby Blue-UL VY LT	800	314	762	300	686	270
3768	Gray Green-DK	131	51	124	48	112	44
3770	Tawny-VY LT	601	236	573	225	515	202
3781	Mocha Brown-DK	3940	1551	3753	1477	3377	1329
3782	Mocha Brown-LT	86	33	81	31	73	28
3799	Pewter Gray-VY DK	5058	1991	4817	1896	4336	1707
3802	Antique Mauve-VY DK	375	147	357	140	321	126
3803	Mauve-MD	134	52	128	50	115	45
3815	Celadon Green-DK	77	30	73	28	66	25
3820	Straw-DK	547	215	521	205	469	184
3823	Yellow-UL Pale	124	48	118	46	106	41
3827	Golden Brown-Pale	291	114	278	109	250	98
3828	Hazelnut Brown	511	201	486	191	438	172
3830	Terra Cotta-MD	28	11	27	10	24	9
3834	Grape-DK	1046	411	996	392	896	352
3835	Grape-MD	578	227	551	216	496	195
3836	Grape-LT	376	148	358	140	322	126
3842	Wedgewood-DK	135	53	129	50	116	45
3854	Autumn Gold-MD	84	33	80	31	72	28
3860	Cocoa	70	27	67	26	60	23
3861	Cocoa-LT	130	51	124	48	111	43
3862	Mocha Beige-DK	663	261	632	248	569	224
3864	Mocha Beige-LT	204	80	194	76	175	68
3865	Winter White	1902	748	1812	713	1630	641
3866	Mocha Brown-UL VY LT	639	251	608	239	547	215



Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
209	Lavender-DK	81	31	68	26	34	13
223	Shell Pink-LT	256	99	213	83	107	41
310	Black	67844	26708	56537	22257	28268	11129
311	Navy Blue-MD	914	360	762	300	381	150
312	Baby Blue-VY DK	949	373	791	311	395	155
316	Antique Mauve-MD	781	306	651	255	326	128
317	Pewter Gray	952	374	794	312	397	156
318	Steel Gray-LT	657	257	548	215	274	107
327	Violet-VY DK	508	200	423	167	212	83
336	Navy Blue	279	110	233	92	116	46
367	Pistachio Green-DK	549	216	458	180	229	90
370	Mustard-MD	988	389	824	324	412	162
371	Mustard	518	203	432	170	216	85
414	Steel Gray-DK	551	216	459	180	230	90
415	Pearl Gray	947	373	789	311	395	155
420	Hazelnut Brown-DK	977	383	815	320	407	160
422	Hazelnut Brown-LT	531	209	443	174	221	87
434	Brown-LT	1183	464	986	387	493	194
435	Brown-VY LT	1966	772	1638	644	819	322
437	Tan-LT	608	239	507	200	254	100
445	Lemon-LT	175	68	146	57	73	29
452	Shell Gray-MD	479	187	399	156	200	78
502	Blue Green	452	176	377	147	188	74
520	Fern Green-DK	3598	1417	2999	1181	1499	590
522	Fern Green	673	265	561	221	281	110
524	Fern Green-VY LT	608	239	507	200	254	100
553	Violet	115	45	96	38	48	19
554	Violet-LT	418	164	348	137	174	68
611	Drab Brown	1480	581	1233	485	617	242
612	Drab Brown-LT	383	149	320	125	160	62
613	Drab Brown-VY LT	446	175	372	146	186	73
632	Desert Sand-UL VY DK	2450	963	2042	803	1021	401
645	Beaver Gray-VY DK	1301	511	1085	426	542	213
647	Beaver Gray-MD	554	218	462	182	231	91
648	Beaver Gray-LT	387	151	323	126	161	63
677	Old Gold-VY LT	563	221	470	185	235	92
680	Old Gold-DK	1073	421	894	351	447	176
725	Topaz	598	234	498	195	249	98
726	Topaz-LT	747	293	623	245	311	122
729	Old Gold-MD	1445	569	1205	474	602	237
734	Olive Green-LT	590	232	492	194	246	97
738	Tan-VY LT	488	191	407	159	203	80
754	Peach-LT	52	20	44	17	22	8
762	Pearl Gray-VY LT	927	364	773	303	386	152
778	Antique Mauve-VY LT	430	169	359	141	179	71
783	Topaz-MD	664	261	554	218	277	109
793	Cornflower Blue-MD	67	25	56	21	28	11
819	Baby Pink-LT	1325	520	1104	434	552	217
823	Navy Blue-DK	1249	491	1041	410	521	205
825	Blue-DK	263	103	219	86	110	43
826	Blue-MD	40	14	33	12	17	6
844	Beaver Brown-UL DK	7956	3132	6630	2610	3315	1305
895	Hunter Green-VY DK	727	286	606	239	303	119
902	Garnet-VY DK	1944	765	1620	638	810	319

909	Emerald Green-VY DK	727	286	606	239	303	119
926	Gray Green-MD	731	286	609	239	305	119
927	Gray Green-LT	700	275	584	230	292	115
928	Gray Green-VY LT	355	139	296	116	148	58
930	Antique Blue-DK	1550	608	1292	507	646	254
931	Antique Blue-MD	621	243	518	203	259	101
932	Antique Blue-LT	113	43	95	36	47	18
938	Coffee Brown-UL DK	15523	6111	12936	5093	6468	2546
963	Dusty Rose-UL VY LT	835	328	696	273	348	137
975	Golden Brown-DK	340	133	284	111	142	56
977	Golden Brown-LT	938	369	782	308	391	154
3021	Brown Gray-VY DK	10091	3973	8409	3311	4205	1655
3024	Brown Gray-VY LT	913	358	761	299	380	149
3041	Antique Violet-MD	702	275	585	230	293	115
3045	Yellow Beige-DK	1334	524	1112	437	556	218
3046	Yellow Beige-MD	761	299	635	249	317	125
3051	Green Gray-DK	1224	481	1020	401	510	200
3052	Green Gray-MD	392	153	327	128	164	64
3072	Beaver Gray-VY LT	1201	472	1001	393	500	197
3346	Hunter Green	1064	418	887	348	443	174
3347	Yellow Green-MD	326	128	272	107	136	53
3362	Pine Green-DK	3024	1190	2520	992	1260	496
3608	Plum-VY LT	175	68	146	57	73	29
3685	Mauve-DK	452	176	377	147	188	74
3689	Mauve-LT	862	338	719	282	359	141
3721	Shell Pink-DK	893	351	744	293	372	146
3726	Antique Mauve-DK	448	176	374	147	187	74
3727	Antique Mauve-LT	695	272	579	227	290	113
3740	Antique Violet-DK	396	155	330	129	165	65
3743	Antique Violet-VY LT	718	283	599	236	299	118
3753	Antique Blue-UL VY LT	356	139	297	116	149	58
3756	Baby Blue-UL VY LT	1235	486	1029	405	515	203
3768	Gray Green-DK	202	79	168	66	84	33
3770	Tawny-VY LT	927	364	773	303	386	152
3781	Mocha Brown-DK	6079	2392	5066	1994	2533	997
3782	Mocha Brown-LT	131	50	110	42	55	21
3799	Pewter Gray-VY DK	7805	3073	6504	2561	3252	1280
3802	Antique Mauve-VY DK	578	227	482	189	241	95
3803	Mauve-MD	207	81	173	68	86	34
3815	Celadon Green-DK	119	45	99	38	50	19
3820	Straw-DK	844	331	704	276	352	138
3823	Yellow-UL Pale	191	74	159	62	80	31
3827	Golden Brown-Pale	450	176	375	147	188	74
3828	Hazelnut Brown	788	310	657	258	329	129
3830	Terra Cotta-MD	43	16	36	14	18	7
3834	Grape-DK	1613	634	1344	528	672	264
3835	Grape-MD	893	351	744	293	372	146
3836	Grape-LT	580	227	483	189	242	95
3842	Wedgewood-DK	209	81	174	68	87	34
3854	Autumn Gold-MD	130	50	108	42	54	21
3860	Cocoa	108	41	90	35	45	17
3861	Cocoa-LT	200	77	167	65	83	32
3862	Mocha Beige-DK	1024	403	854	336	427	168
3864	Mocha Beige-LT	315	122	263	102	131	51
3865	Winter White	2934	1154	2445	962	1223	481
3866	Mocha Brown-UL VY LT	985	387	821	323	410	161

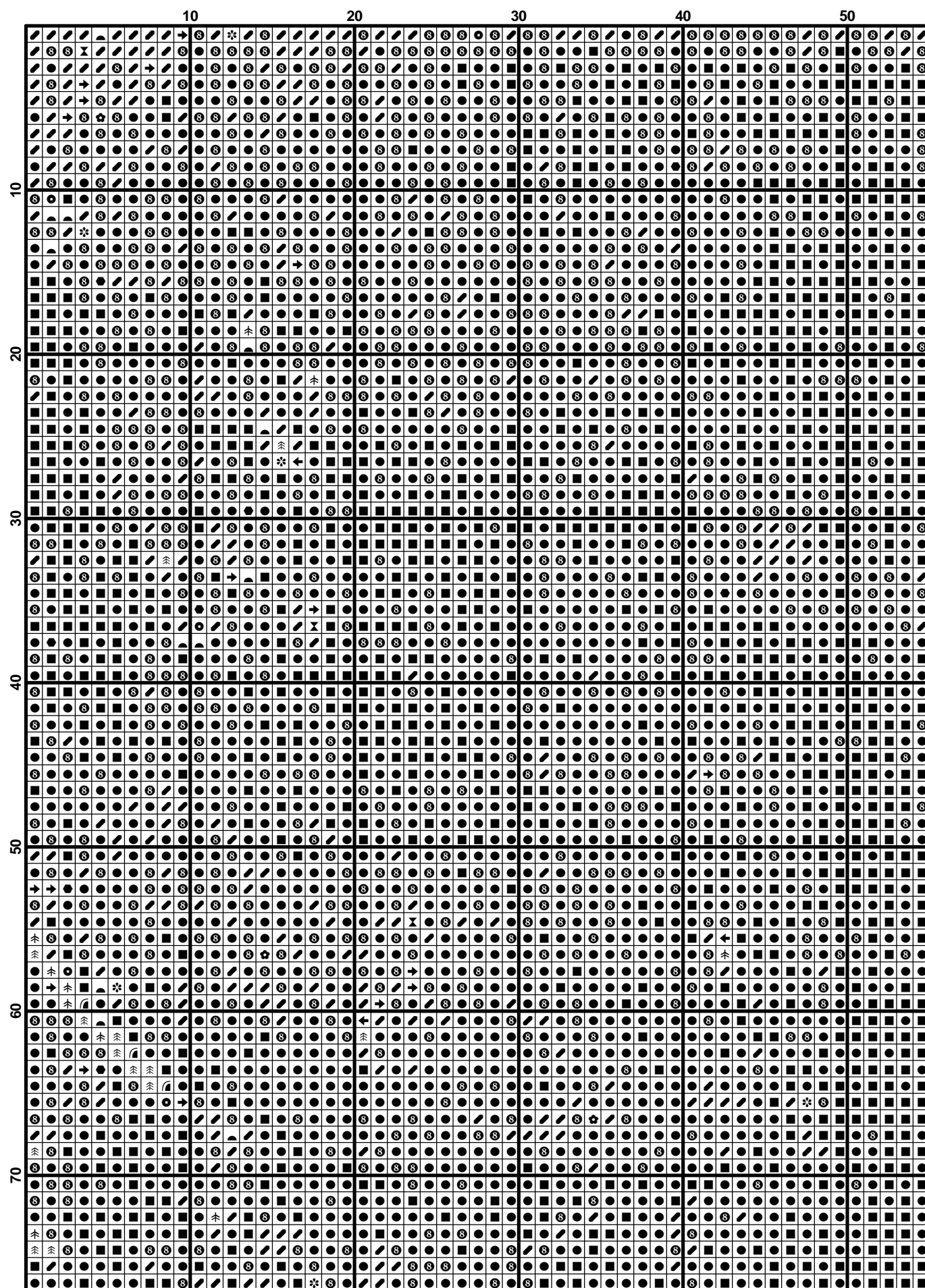
Extended thread usage table.							
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		25		26		27	
209	Lavender-DK	32	12	31	12	30	11
223	Shell Pink-LT	102	40	98	38	95	37
310	Black	27138	10683	26094	10272	25127	9892
311	Navy Blue-MD	366	144	352	138	339	133
312	Baby Blue-VY DK	379	149	365	143	351	138
316	Antique Mauve-MD	312	122	300	118	289	113
317	Pewter Gray	381	150	366	144	353	139
318	Steel Gray-LT	263	103	253	99	243	95
327	Violet-VY DK	203	80	195	77	188	74
336	Navy Blue	112	44	107	42	103	41
367	Pistachio Green-DK	220	86	211	83	203	80
370	Mustard-MD	395	156	380	150	366	144
371	Mustard	207	81	199	78	192	75
414	Steel Gray-DK	220	86	212	83	204	80
415	Pearl Gray	379	149	364	143	351	138
420	Hazelnut Brown-DK	391	153	376	147	362	142
422	Hazelnut Brown-LT	212	84	204	80	197	77
434	Brown-LT	473	186	455	179	438	172
435	Brown-VY LT	786	309	756	297	728	286
437	Tan-LT	243	96	234	92	225	89
445	Lemon-LT	70	27	67	26	65	25
452	Shell Gray-MD	192	75	184	72	177	69
502	Blue Green	181	71	174	68	167	65
520	Fern Green-DK	1439	567	1384	545	1333	525
522	Fern Green	269	106	259	102	249	98
524	Fern Green-VY LT	243	96	234	92	225	89
553	Violet	46	18	44	17	43	17
554	Violet-LT	167	66	161	63	155	61
611	Drab Brown	592	233	569	224	548	215
612	Drab Brown-LT	153	60	147	57	142	55
613	Drab Brown-VY LT	179	70	172	67	165	65
632	Desert Sand-UL VY DK	980	385	942	370	907	357
645	Beaver Gray-VY DK	521	204	501	197	482	189
647	Beaver Gray-MD	222	87	213	84	205	81
648	Beaver Gray-LT	155	60	149	58	143	56
677	Old Gold-VY LT	225	89	217	85	209	82
680	Old Gold-DK	429	168	413	162	397	156
725	Topaz	239	94	230	90	221	87
726	Topaz-LT	299	117	287	113	277	109
729	Old Gold-MD	578	228	556	219	535	211
734	Olive Green-LT	236	93	227	89	219	86
738	Tan-VY LT	195	76	188	73	181	71
754	Peach-LT	21	8	20	8	19	7
762	Pearl Gray-VY LT	371	145	357	140	343	135
778	Antique Mauve-VY LT	172	68	165	65	159	63
783	Topaz-MD	266	104	255	100	246	97
793	Cornflower Blue-MD	27	10	26	10	25	9
819	Baby Pink-LT	530	208	510	200	491	193
823	Navy Blue-DK	500	197	480	189	463	182
825	Blue-DK	105	41	101	39	97	38
826	Blue-MD	16	6	15	6	15	5
844	Beaver Brown-UL DK	3182	1253	3060	1205	2947	1160
895	Hunter Green-VY DK	291	114	280	110	269	106
902	Garnet-VY DK	778	306	748	294	720	283

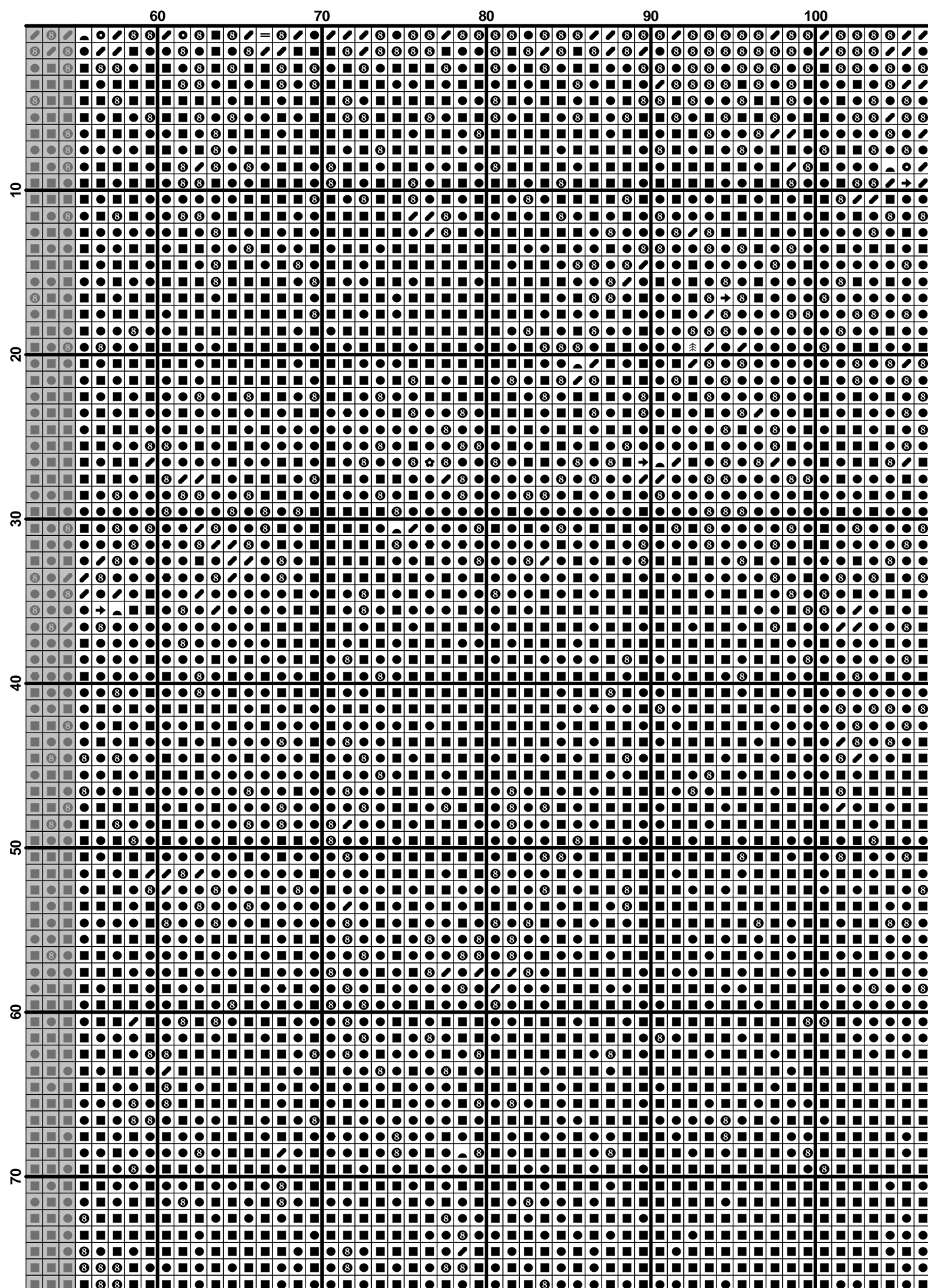
909	Emerald Green-VY DK	291	114	280	110	269	106
926	Gray Green-MD	292	114	281	110	271	106
927	Gray Green-LT	280	110	269	106	259	102
928	Gray Green-VY LT	142	55	136	53	131	51
930	Antique Blue-DK	620	243	596	234	574	225
931	Antique Blue-MD	248	97	239	93	230	90
932	Antique Blue-LT	45	17	44	17	42	16
938	Coffee Brown-UL DK	6209	2444	5970	2350	5749	2263
963	Dusty Rose-UL VY LT	334	131	321	126	309	121
975	Golden Brown-DK	136	53	131	51	126	49
977	Golden Brown-LT	375	148	361	142	347	137
3021	Brown Gray-VY DK	4036	1589	3881	1528	3737	1471
3024	Brown Gray-VY LT	365	143	351	138	338	133
3041	Antique Violet-MD	281	110	270	106	260	102
3045	Yellow Beige-DK	534	210	513	201	494	194
3046	Yellow Beige-MD	305	120	293	115	282	111
3051	Green Gray-DK	490	192	471	185	453	178
3052	Green Gray-MD	157	61	151	59	145	57
3072	Beaver Gray-VY LT	480	189	462	181	445	175
3346	Hunter Green	426	167	409	161	394	155
3347	Yellow Green-MD	130	51	125	49	121	47
3362	Pine Green-DK	1210	476	1163	458	1120	441
3608	Plum-VY LT	70	27	67	26	65	25
3685	Mauve-DK	181	71	174	68	167	65
3689	Mauve-LT	345	135	332	130	319	125
3721	Shell Pink-DK	357	140	343	135	331	130
3726	Antique Mauve-DK	179	71	172	68	166	65
3727	Antique Mauve-LT	278	109	267	105	257	101
3740	Antique Violet-DK	158	62	152	60	147	57
3743	Antique Violet-VY LT	287	113	276	109	266	105
3753	Antique Blue-UL VY LT	143	55	137	53	132	51
3756	Baby Blue-UL VY LT	494	194	475	187	457	180
3768	Gray Green-DK	81	32	78	30	75	29
3770	Tawny-VY LT	371	145	357	140	343	135
3781	Mocha Brown-DK	2431	957	2338	920	2251	886
3782	Mocha Brown-LT	53	20	51	19	49	19
3799	Pewter Gray-VY DK	3122	1229	3002	1182	2891	1138
3802	Antique Mauve-VY DK	231	91	222	87	214	84
3803	Mauve-MD	83	32	80	31	77	30
3815	Celadon Green-DK	48	18	46	17	44	17
3820	Straw-DK	338	132	325	127	313	123
3823	Yellow-UL Pale	76	30	73	28	71	27
3827	Golden Brown-Pale	180	71	173	68	167	65
3828	Hazelnut Brown	315	124	303	119	292	115
3830	Terra Cotta-MD	17	6	17	6	16	6
3834	Grape-DK	645	253	620	244	597	235
3835	Grape-MD	357	140	343	135	331	130
3836	Grape-LT	232	91	223	87	215	84
3842	Wedgewood-DK	84	32	80	31	77	30
3854	Autumn Gold-MD	52	20	50	19	48	19
3860	Cocoa	43	17	42	16	40	15
3861	Cocoa-LT	80	31	77	30	74	29
3862	Mocha Beige-DK	410	161	394	155	379	149
3864	Mocha Beige-LT	126	49	121	47	117	45
3865	Winter White	1174	462	1128	444	1087	427
3866	Mocha Brown-UL VY LT	394	155	379	149	365	143

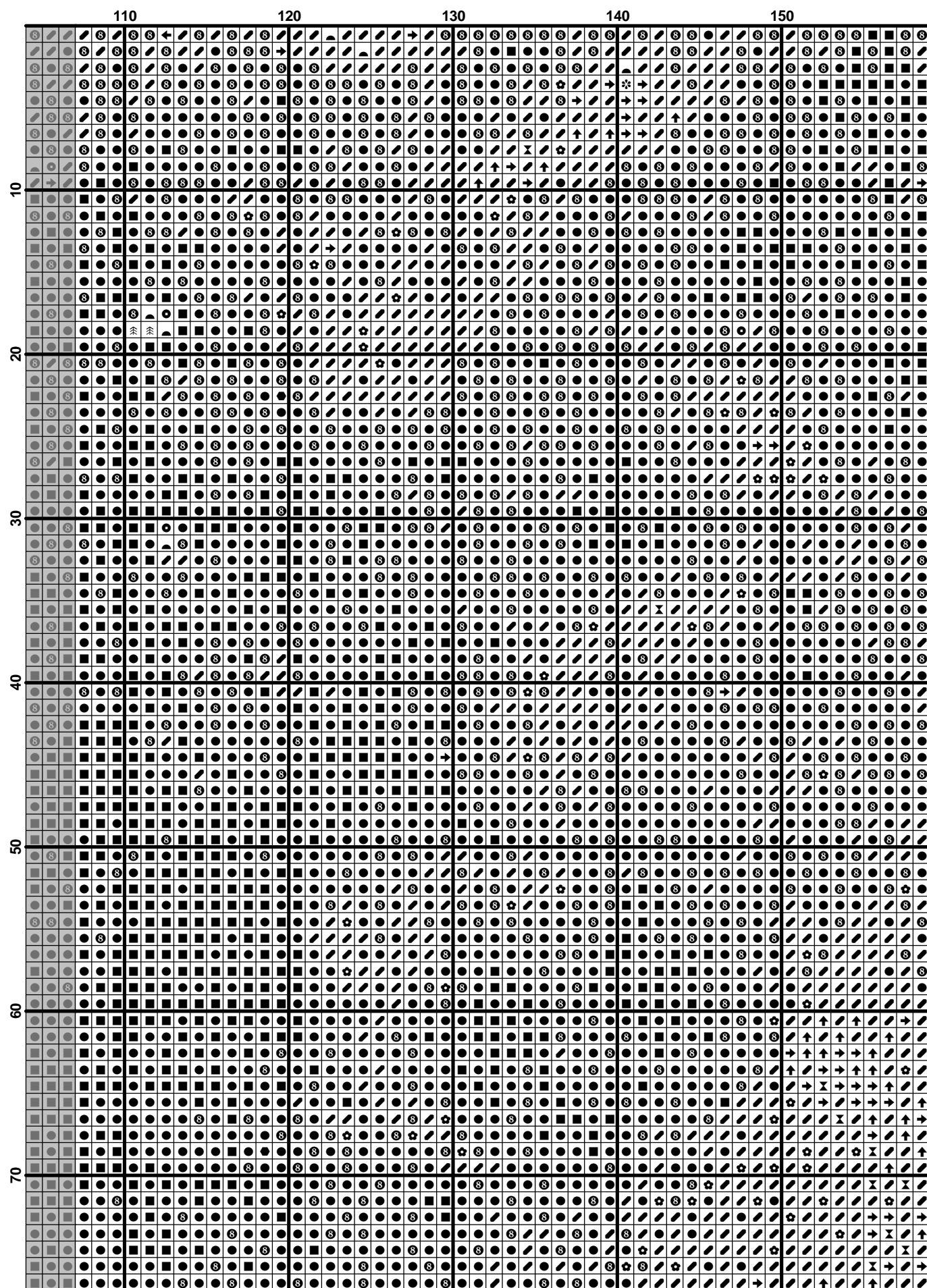
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
209	Lavender-DK	29	11	27	10	25	10
223	Shell Pink-LT	91	35	85	33	80	31
310	Black	24230	9539	22615	8903	21201	8346
311	Navy Blue-MD	327	129	305	120	286	113
312	Baby Blue-VY DK	339	133	316	124	296	116
316	Antique Mauve-MD	279	109	260	102	244	96
317	Pewter Gray	340	134	317	125	298	117
318	Steel Gray-LT	235	92	219	86	205	80
327	Violet-VY DK	181	71	169	67	159	62
336	Navy Blue	100	39	93	37	87	34
367	Pistachio Green-DK	196	77	183	72	172	68
370	Mustard-MD	353	139	329	130	309	122
371	Mustard	185	73	173	68	162	64
414	Steel Gray-DK	197	77	184	72	172	68
415	Pearl Gray	338	133	316	124	296	116
420	Hazelnut Brown-DK	349	137	326	128	305	120
422	Hazelnut Brown-LT	190	75	177	70	166	65
434	Brown-LT	422	166	394	155	370	145
435	Brown-VY LT	702	276	655	257	614	241
437	Tan-LT	217	86	203	80	190	75
445	Lemon-LT	62	24	58	23	55	21
452	Shell Gray-MD	171	67	160	62	150	59
502	Blue Green	161	63	151	59	141	55
520	Fern Green-DK	1285	506	1199	472	1124	443
522	Fern Green	240	95	224	88	210	83
524	Fern Green-VY LT	217	86	203	80	190	75
553	Violet	41	16	38	15	36	14
554	Violet-LT	149	59	139	55	131	51
611	Drab Brown	528	208	493	194	462	182
612	Drab Brown-LT	137	53	128	50	120	47
613	Drab Brown-VY LT	159	62	149	58	140	55
632	Desert Sand-UL VY DK	875	344	817	321	766	301
645	Beaver Gray-VY DK	465	183	434	170	407	160
647	Beaver Gray-MD	198	78	185	73	173	68
648	Beaver Gray-LT	138	54	129	50	121	47
677	Old Gold-VY LT	201	79	188	74	176	69
680	Old Gold-DK	383	150	358	140	335	132
725	Topaz	213	84	199	78	187	73
726	Topaz-LT	267	105	249	98	233	92
729	Old Gold-MD	516	203	482	190	452	178
734	Olive Green-LT	211	83	197	77	185	73
738	Tan-VY LT	174	68	163	64	152	60
754	Peach-LT	19	7	17	7	16	6
762	Pearl Gray-VY LT	331	130	309	121	290	114
778	Antique Mauve-VY LT	154	60	143	56	134	53
783	Topaz-MD	237	93	221	87	208	82
793	Cornflower Blue-MD	24	9	22	8	21	8
819	Baby Pink-LT	473	186	442	173	414	163
823	Navy Blue-DK	446	176	416	164	390	154
825	Blue-DK	94	37	88	34	82	32
826	Blue-MD	14	5	13	5	12	5
844	Beaver Brown-UL DK	2841	1119	2652	1044	2486	979
895	Hunter Green-VY DK	260	102	242	95	227	89
902	Garnet-VY DK	694	273	648	255	608	239

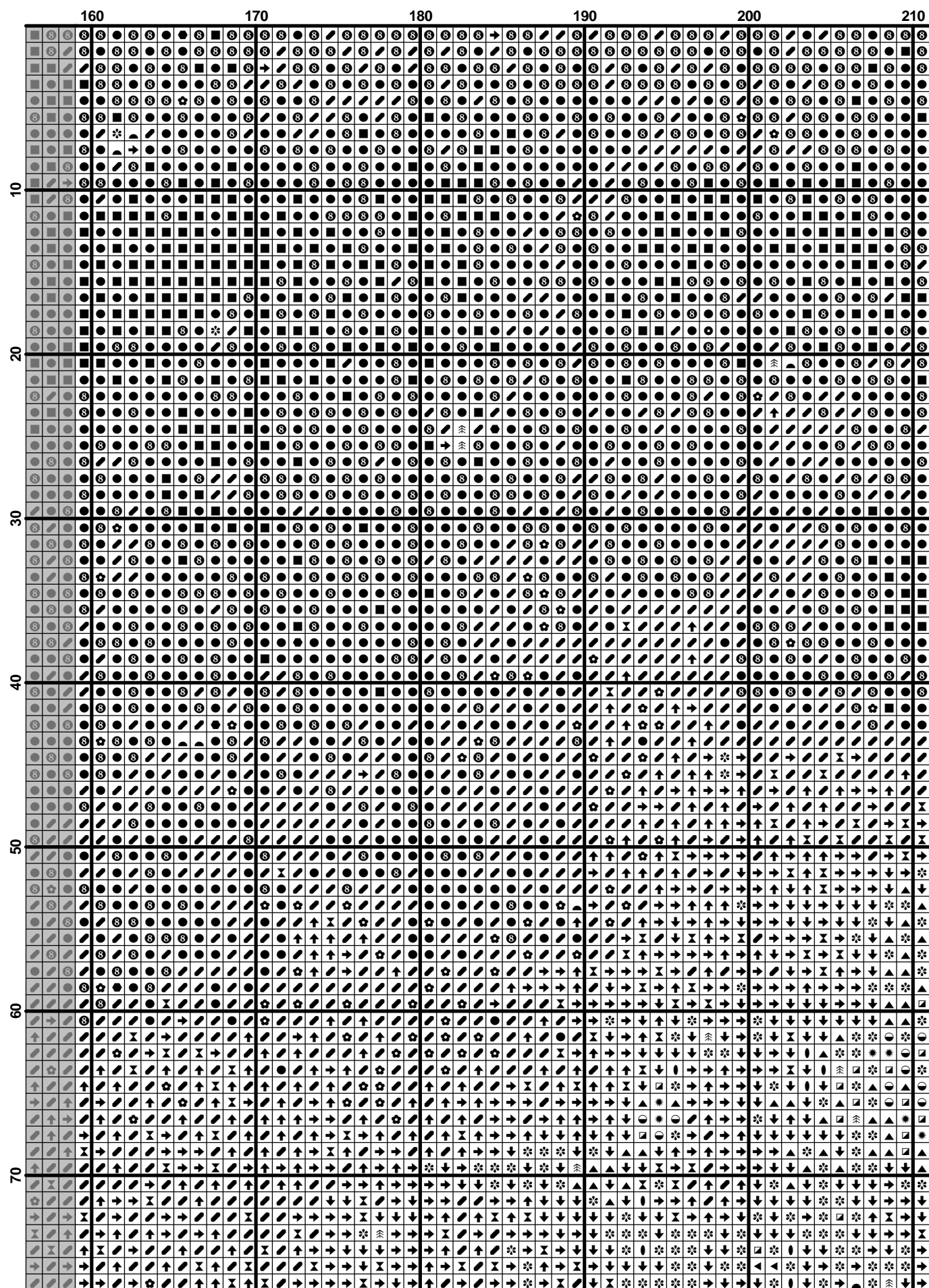
909	Emerald Green-VY DK	260	102	242	95	227	89
926	Gray Green-MD	261	102	244	95	228	89
927	Gray Green-LT	250	98	233	92	219	86
928	Gray Green-VY LT	127	50	118	46	111	43
930	Antique Blue-DK	554	217	517	203	484	190
931	Antique Blue-MD	222	87	207	81	194	76
932	Antique Blue-LT	41	15	38	14	35	14
938	Coffee Brown-UL DK	5544	2183	5174	2037	4851	1910
963	Dusty Rose-UL VY LT	298	117	278	109	261	102
975	Golden Brown-DK	122	48	113	44	106	42
977	Golden Brown-LT	335	132	313	123	293	115
3021	Brown Gray-VY DK	3604	1419	3364	1324	3153	1241
3024	Brown Gray-VY LT	326	128	304	119	285	112
3041	Antique Violet-MD	251	98	234	92	219	86
3045	Yellow Beige-DK	476	187	445	175	417	164
3046	Yellow Beige-MD	272	107	254	100	238	93
3051	Green Gray-DK	437	172	408	160	383	150
3052	Green Gray-MD	140	55	131	51	123	48
3072	Beaver Gray-VY LT	429	168	400	157	375	147
3346	Hunter Green	380	149	355	139	332	131
3347	Yellow Green-MD	116	46	109	43	102	40
3362	Pine Green-DK	1080	425	1008	397	945	372
3608	Plum-VY LT	62	24	58	23	55	21
3685	Mauve-DK	161	63	151	59	141	55
3689	Mauve-LT	308	121	287	113	269	106
3721	Shell Pink-DK	319	125	298	117	279	110
3726	Antique Mauve-DK	160	63	149	59	140	55
3727	Antique Mauve-LT	248	97	232	91	217	85
3740	Antique Violet-DK	141	55	132	52	124	48
3743	Antique Violet-VY LT	257	101	239	94	224	88
3753	Antique Blue-UL VY LT	127	50	119	46	111	43
3756	Baby Blue-UL VY LT	441	174	412	162	386	152
3768	Gray Green-DK	72	28	67	26	63	25
3770	Tawny-VY LT	331	130	309	121	290	114
3781	Mocha Brown-DK	2171	854	2026	797	1900	748
3782	Mocha Brown-LT	47	18	44	17	41	16
3799	Pewter Gray-VY DK	2787	1097	2602	1024	2439	960
3802	Antique Mauve-VY DK	206	81	193	76	181	71
3803	Mauve-MD	74	29	69	27	65	25
3815	Celadon Green-DK	42	16	40	15	37	14
3820	Straw-DK	302	118	281	110	264	104
3823	Yellow-UL Pale	68	26	64	25	60	23
3827	Golden Brown-Pale	161	63	150	59	141	55
3828	Hazelnut Brown	282	111	263	103	246	97
3830	Terra Cotta-MD	15	6	14	5	14	5
3834	Grape-DK	576	226	538	211	504	198
3835	Grape-MD	319	125	298	117	279	110
3836	Grape-LT	207	81	193	76	181	71
3842	Wedgewood-DK	75	29	70	27	65	25
3854	Autumn Gold-MD	46	18	43	17	41	16
3860	Cocoa	39	15	36	14	34	13
3861	Cocoa-LT	71	28	67	26	62	24
3862	Mocha Beige-DK	366	144	341	134	320	126
3864	Mocha Beige-LT	113	44	105	41	98	38
3865	Winter White	1048	412	978	385	917	361
3866	Mocha Brown-UL VY LT	352	138	328	129	308	121

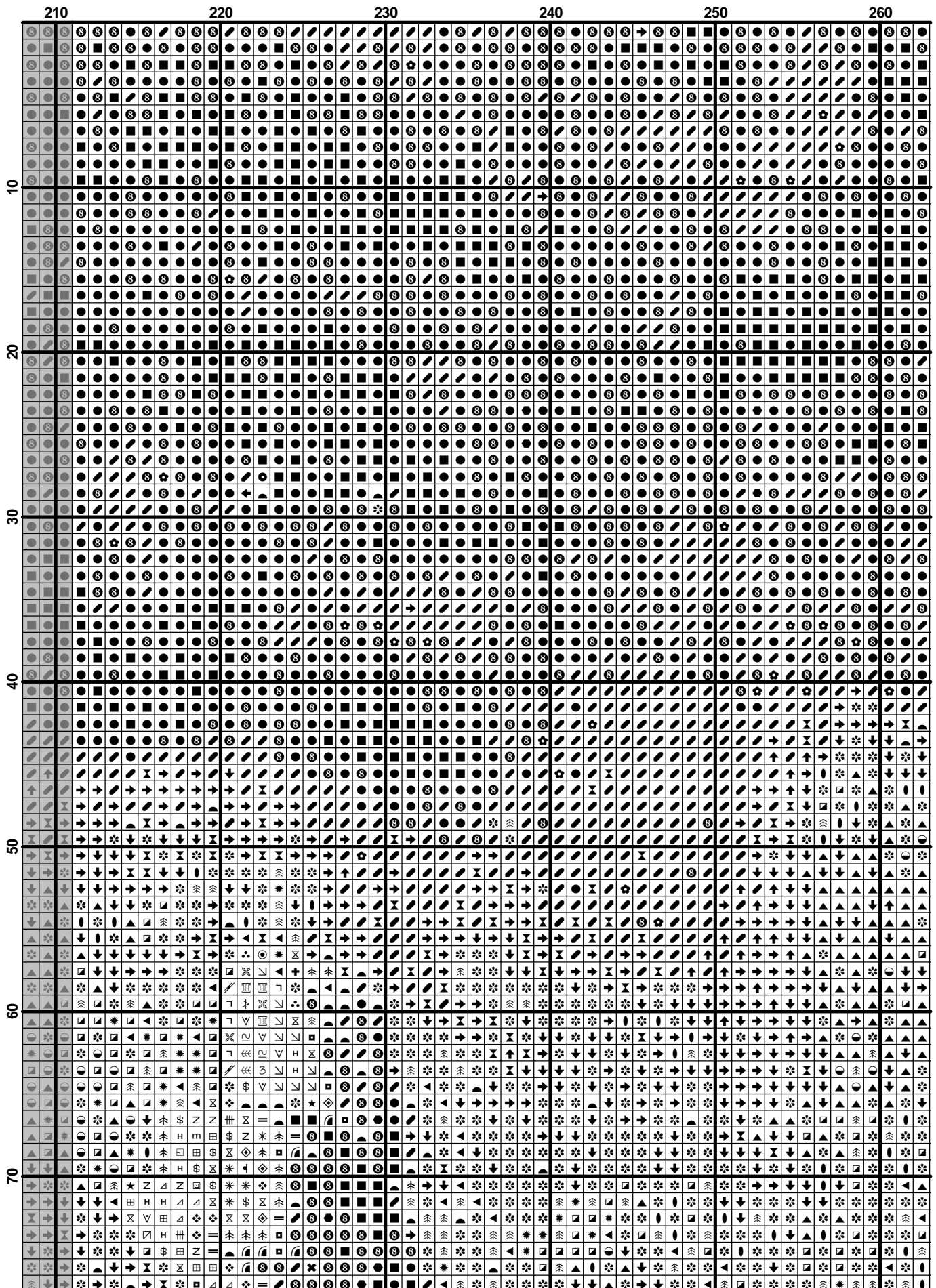


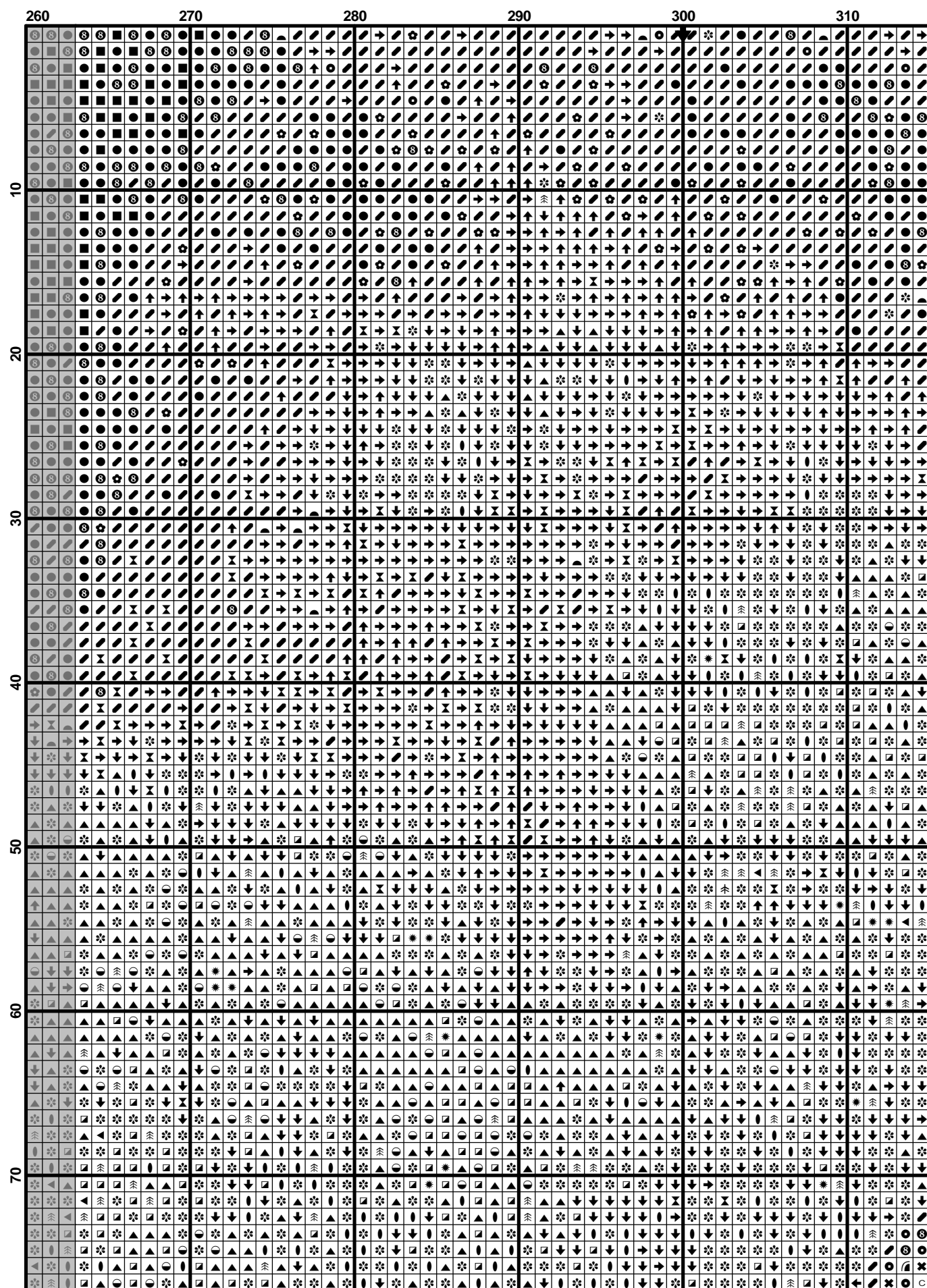




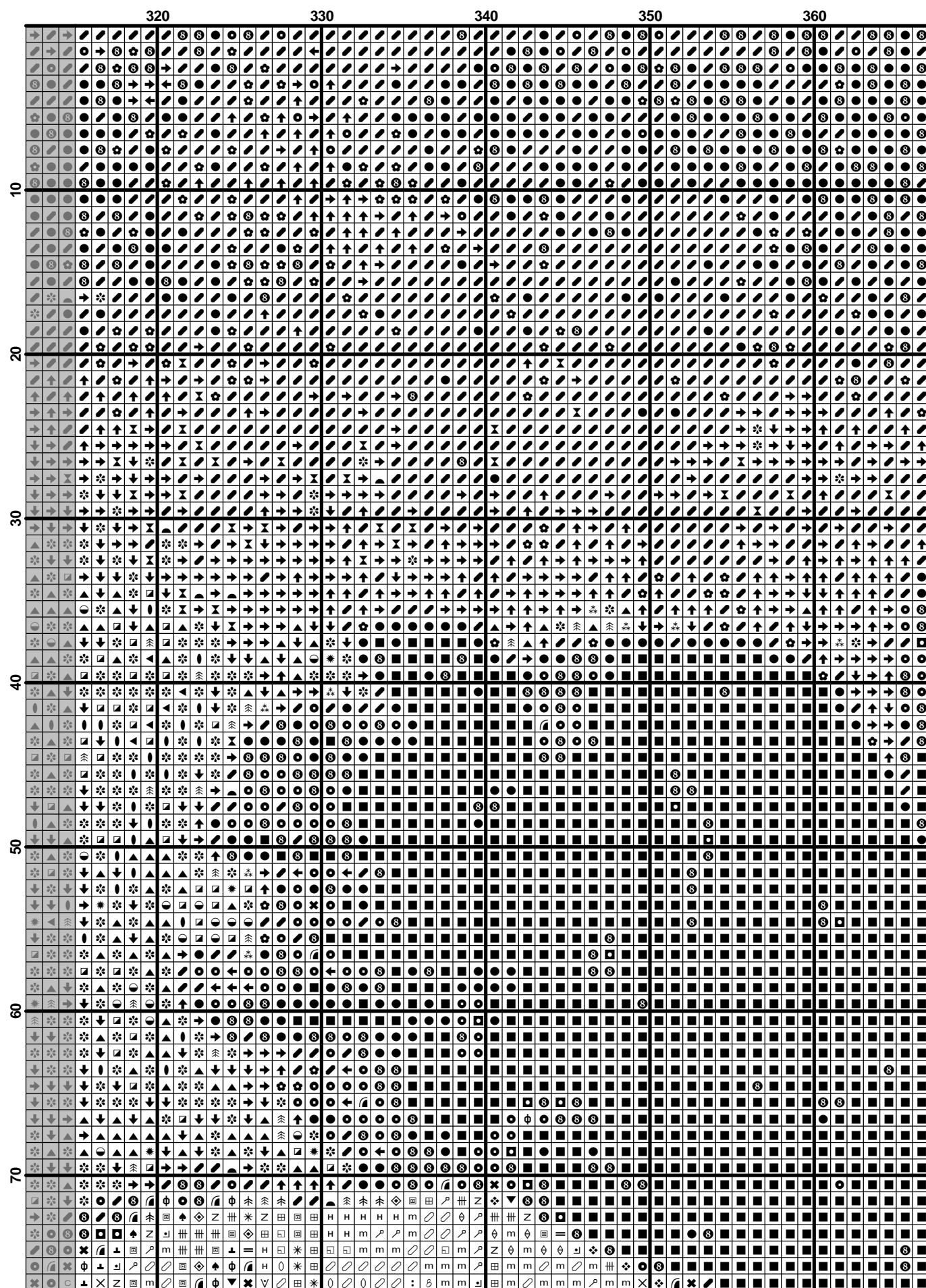


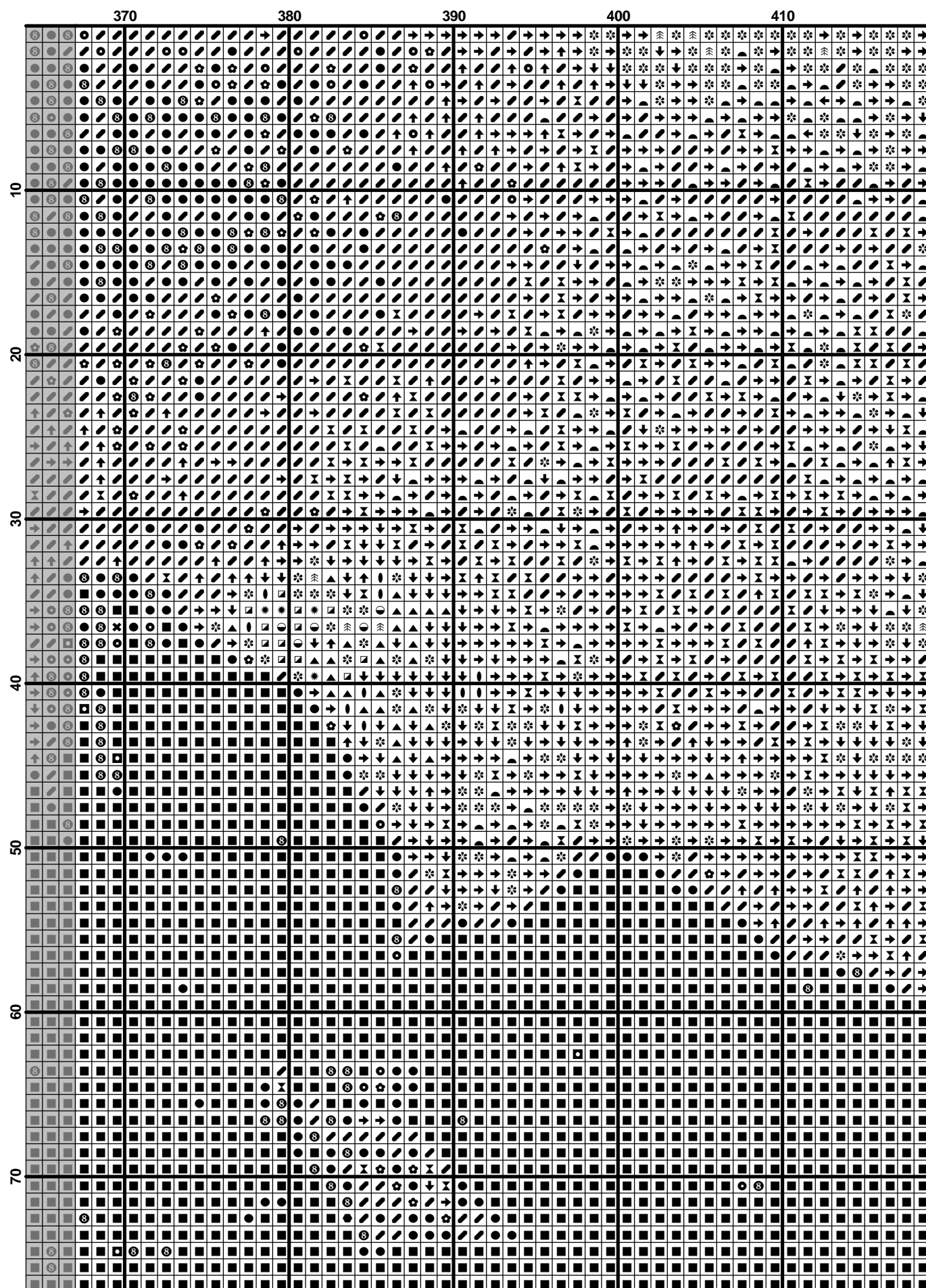


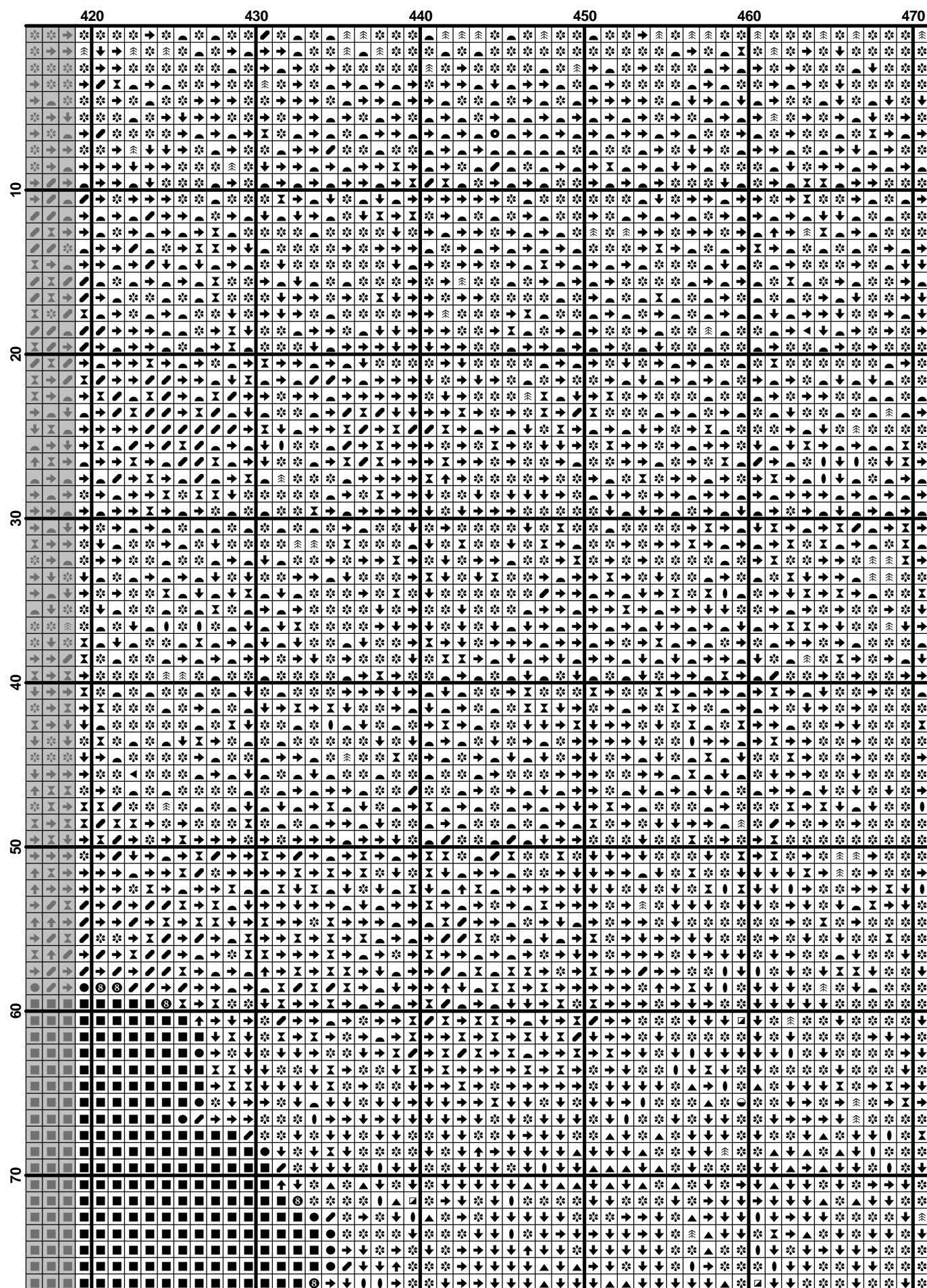


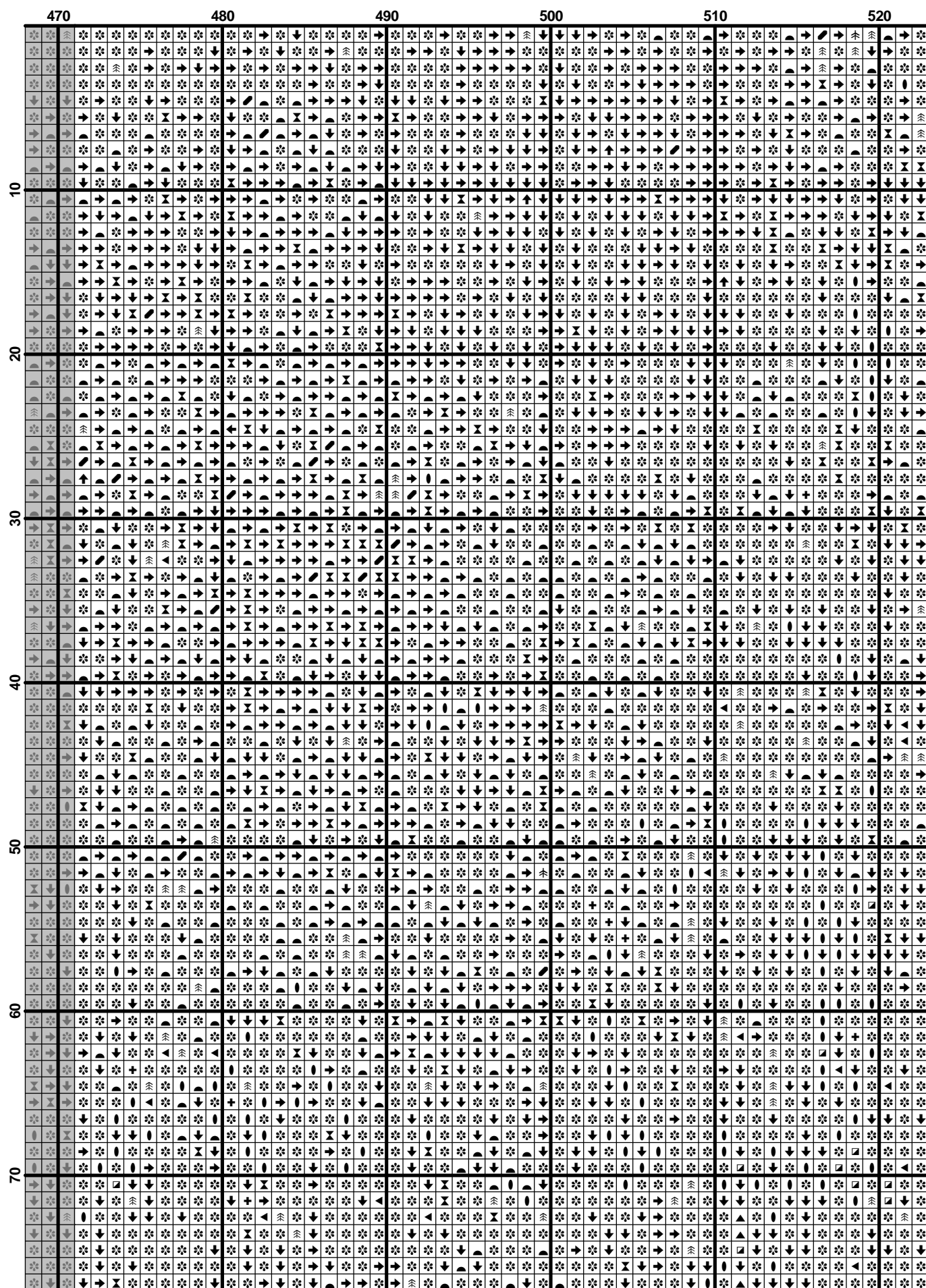


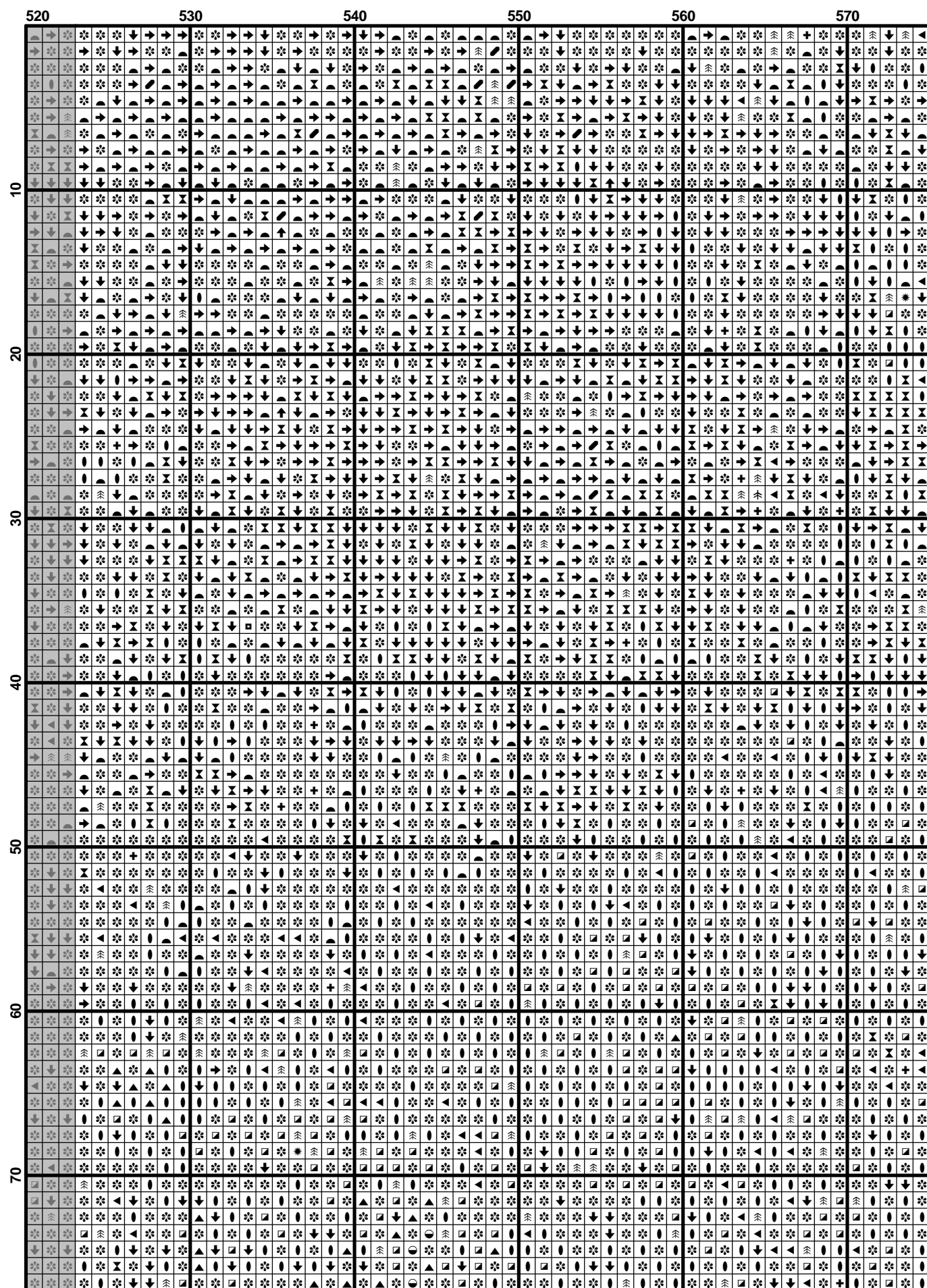


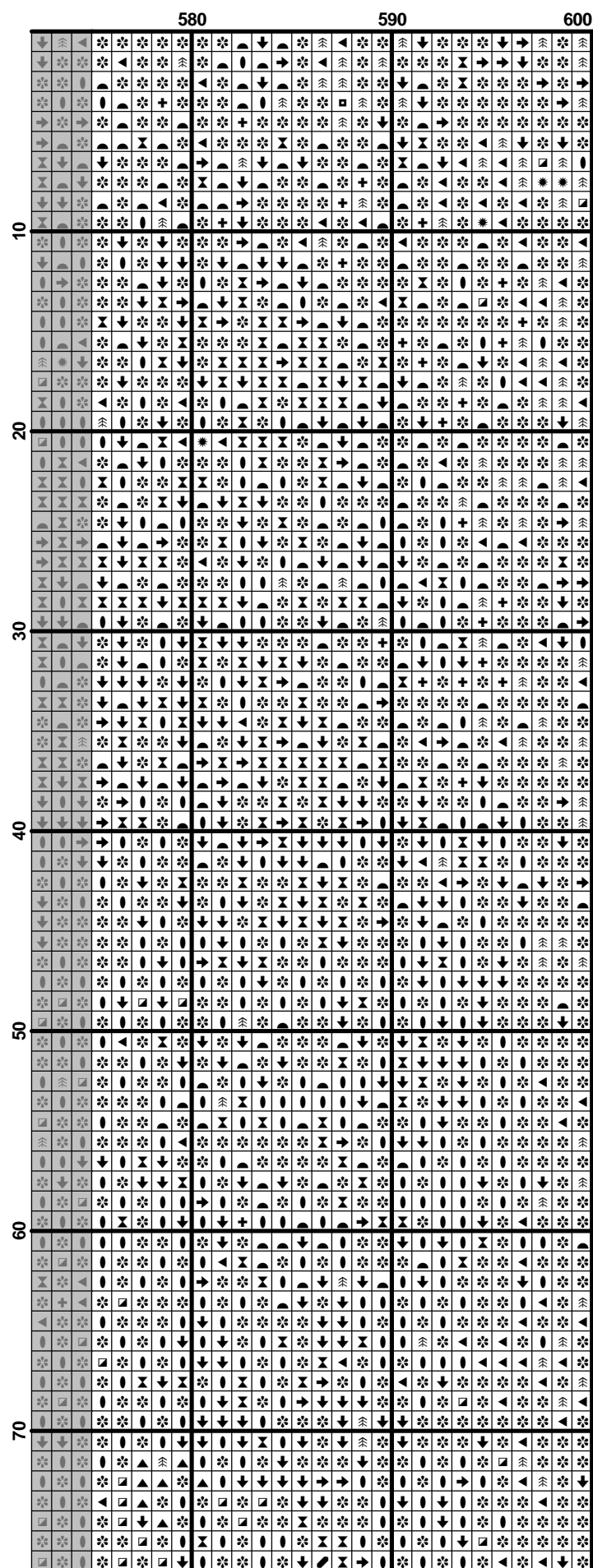




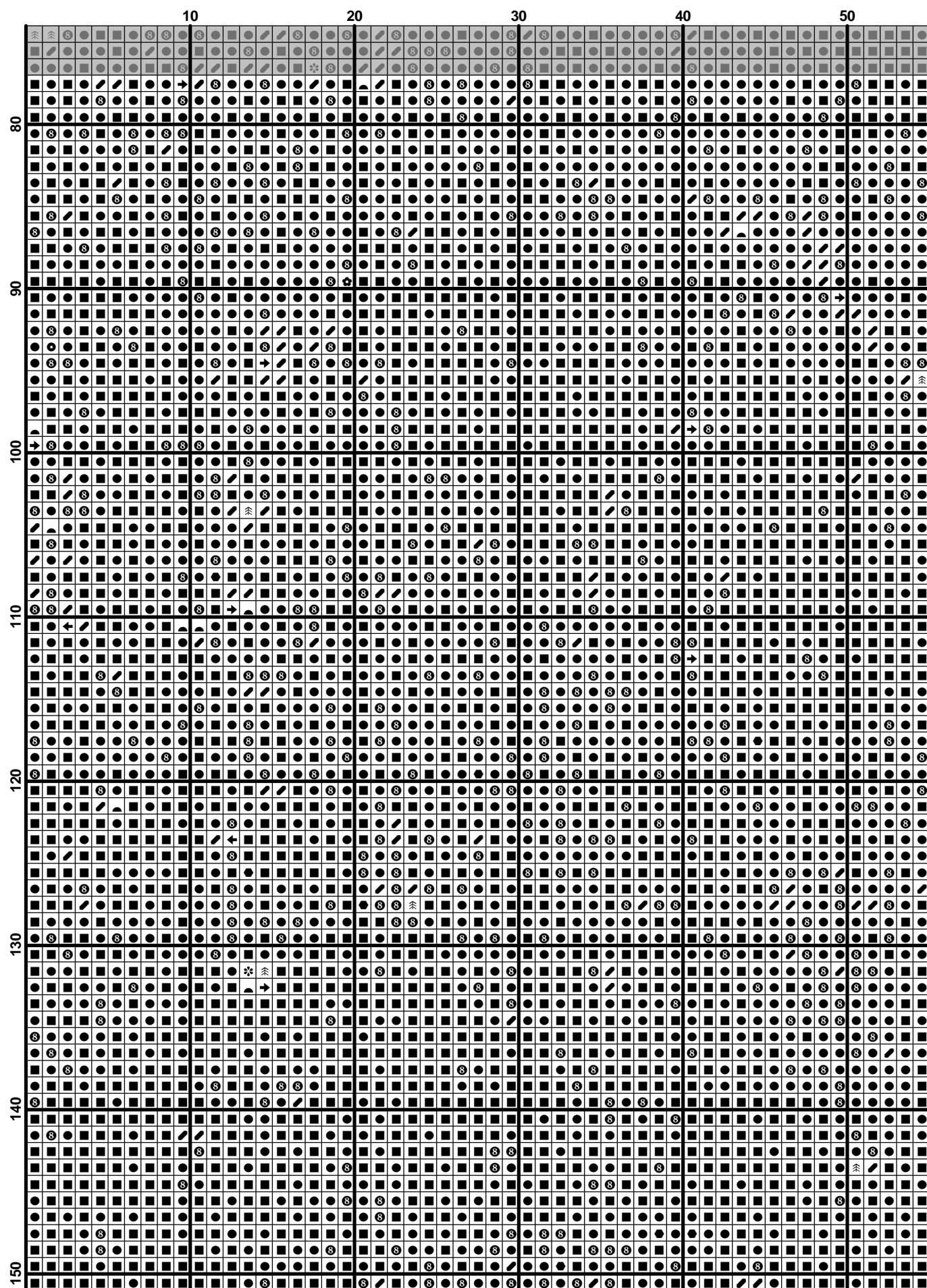


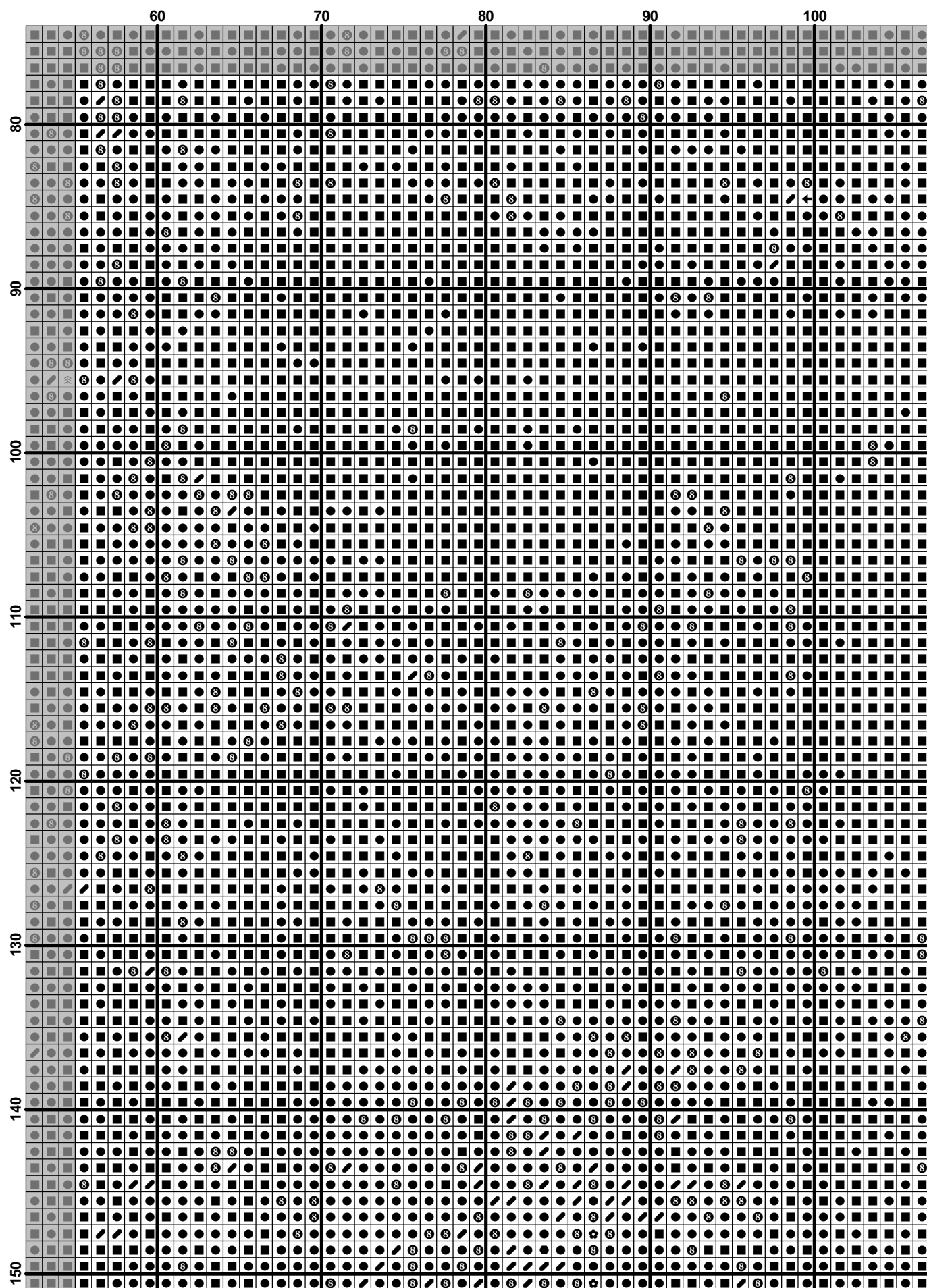


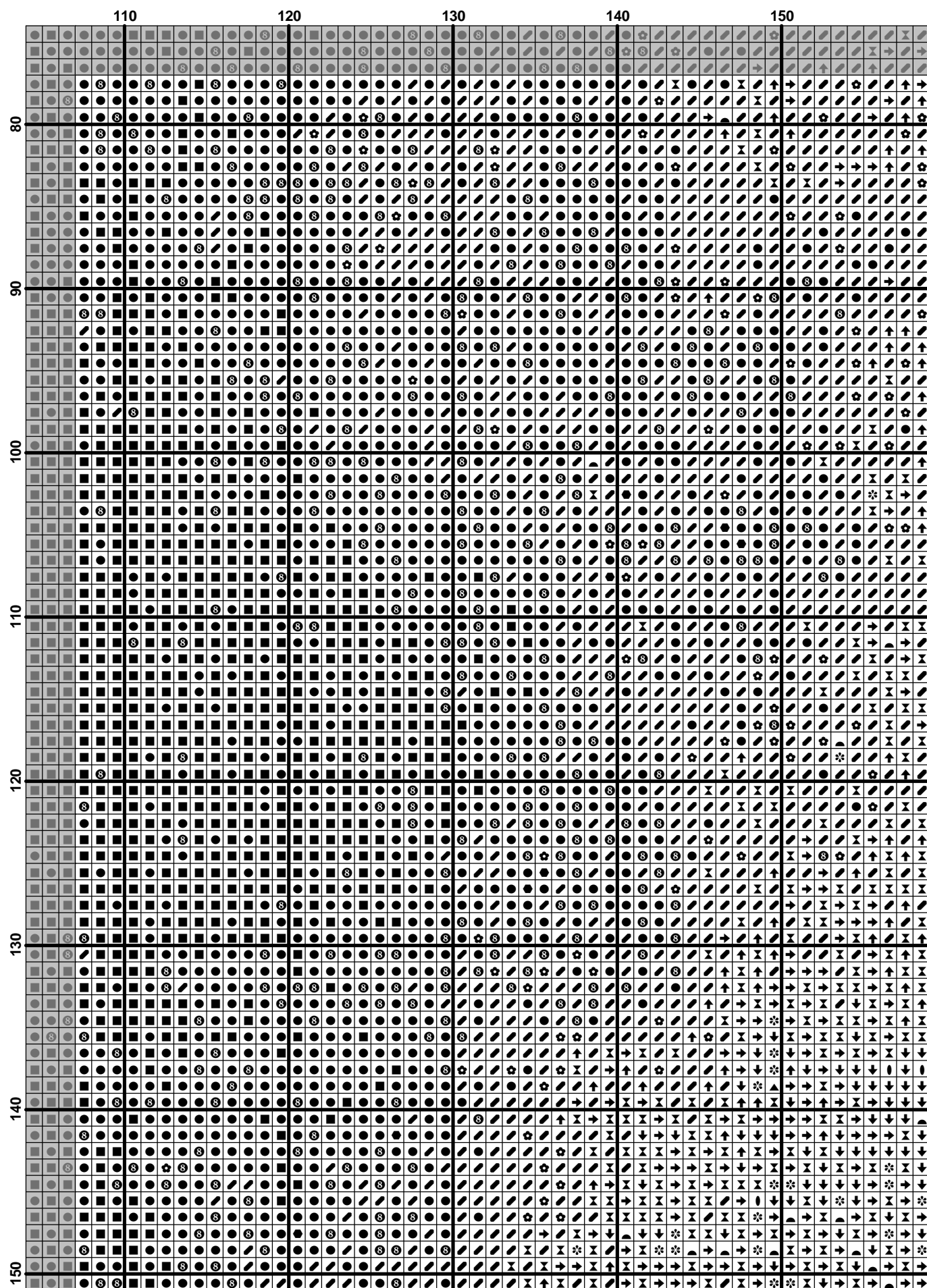


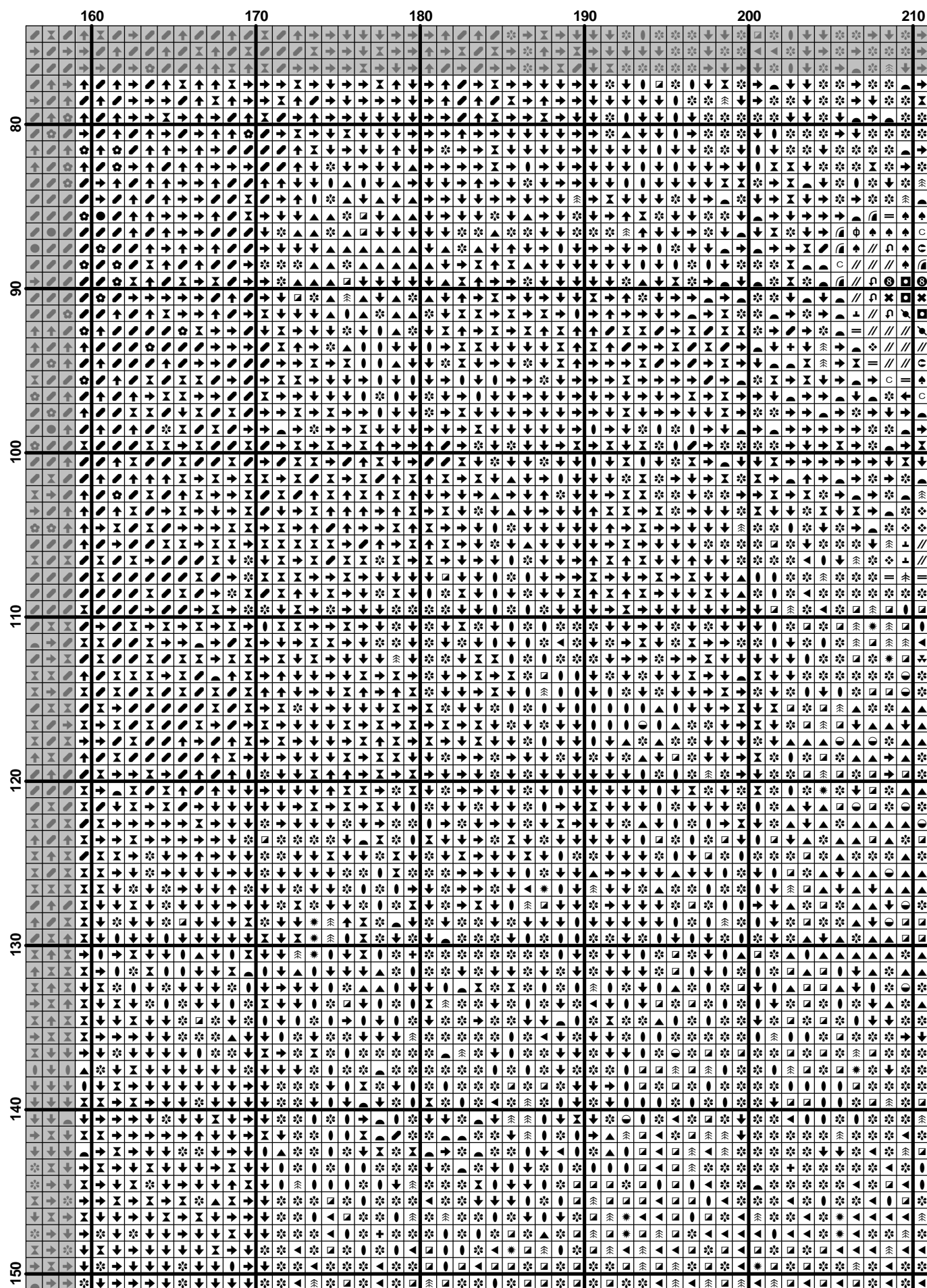


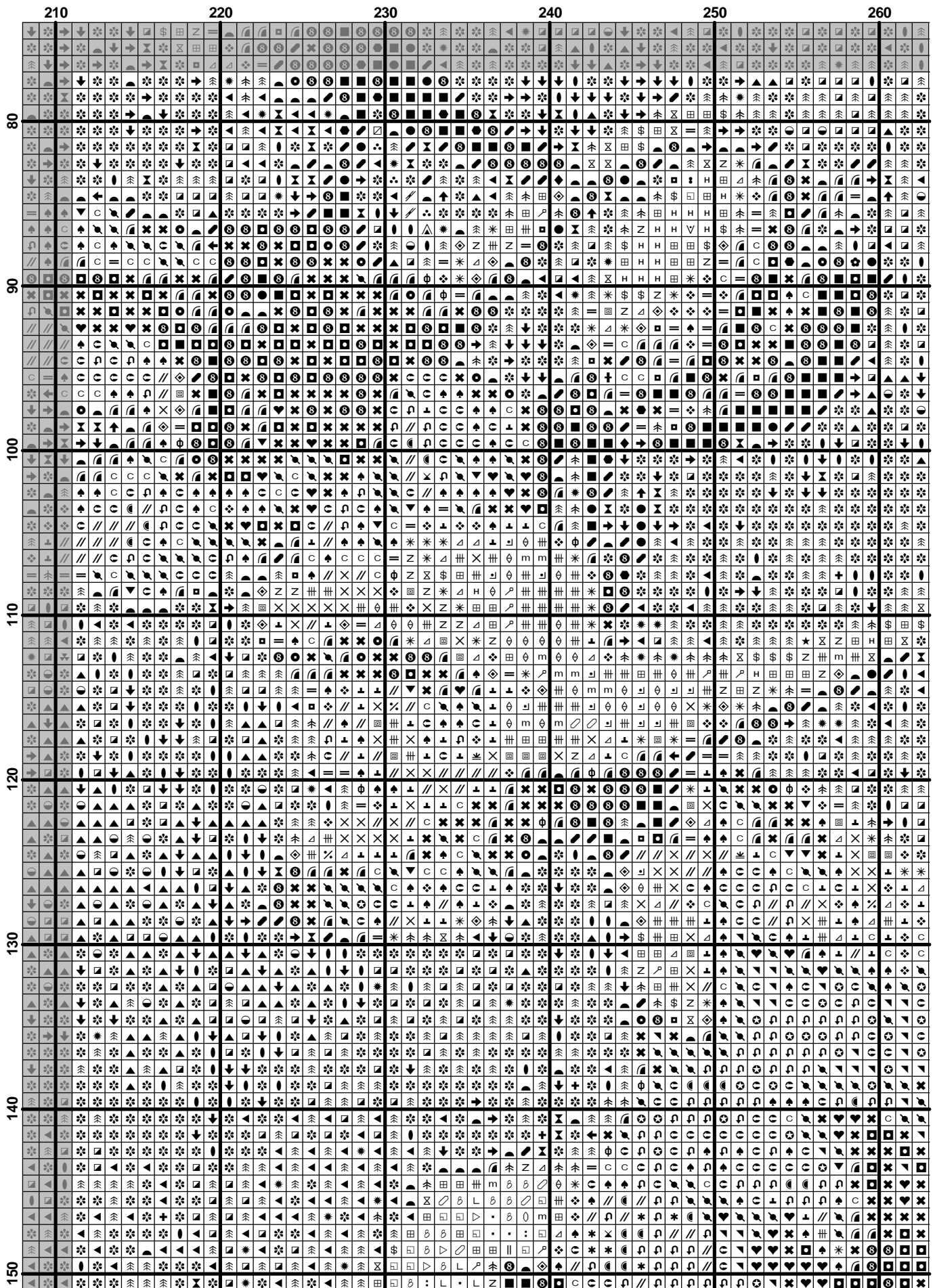


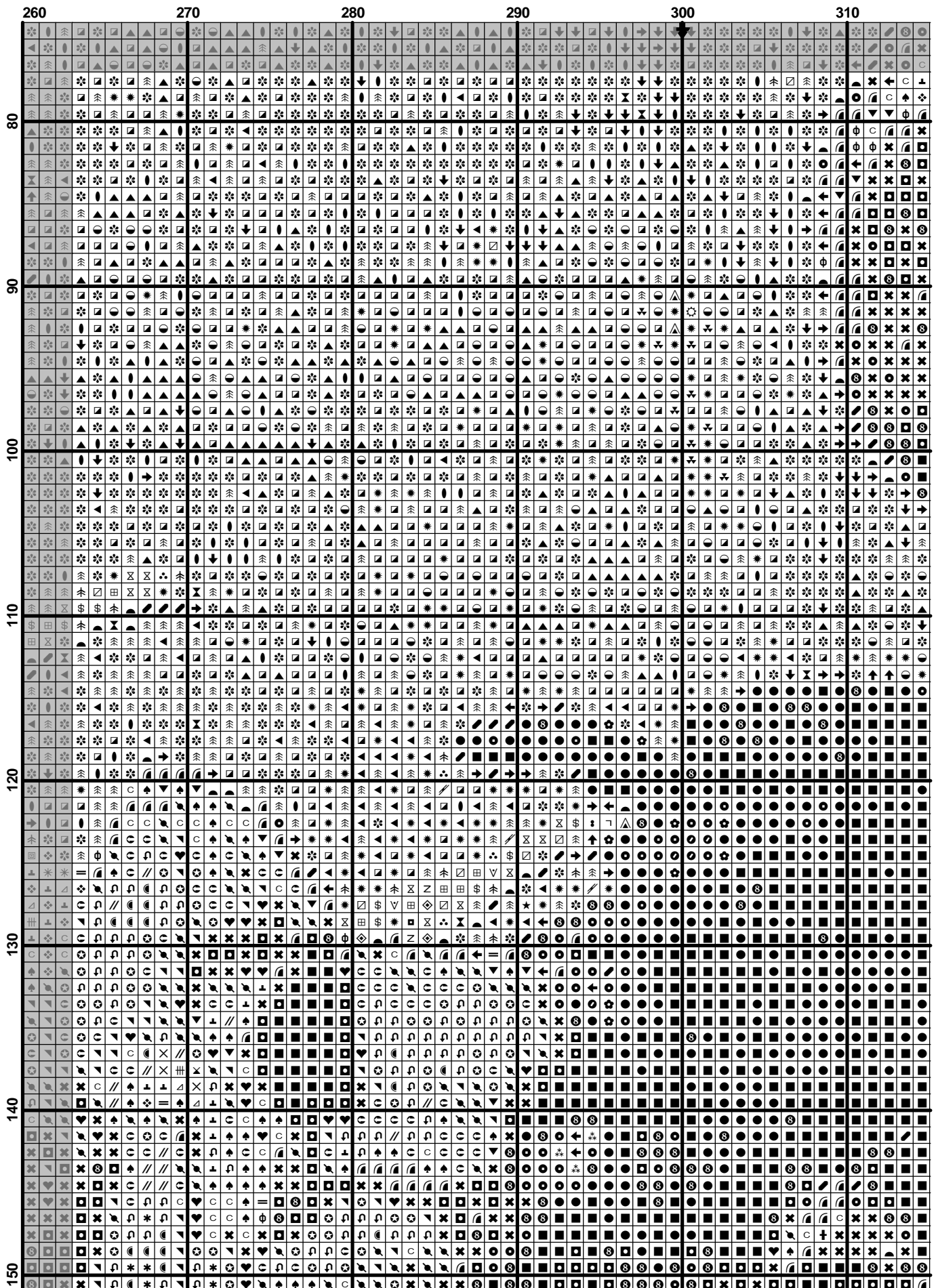




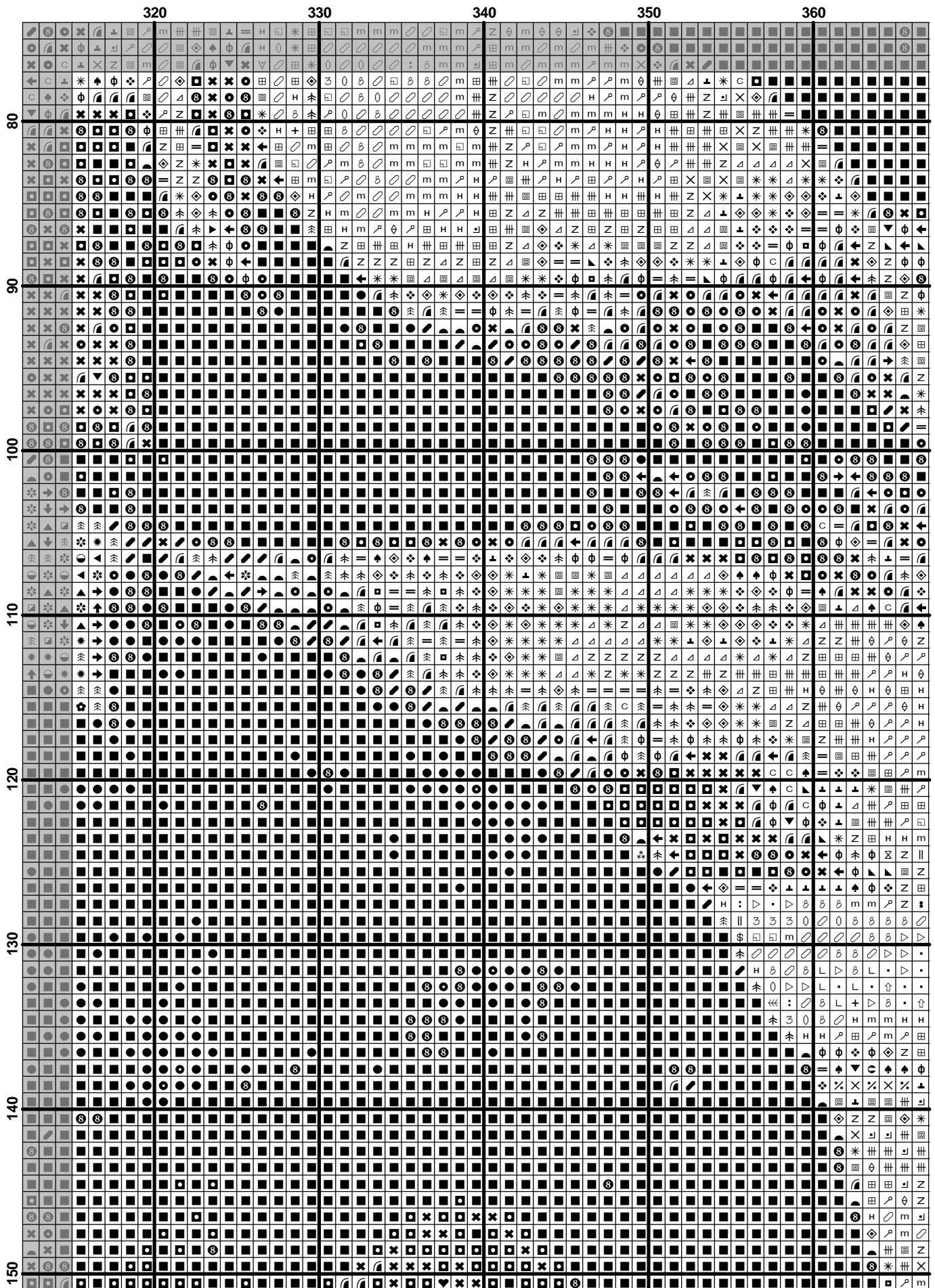


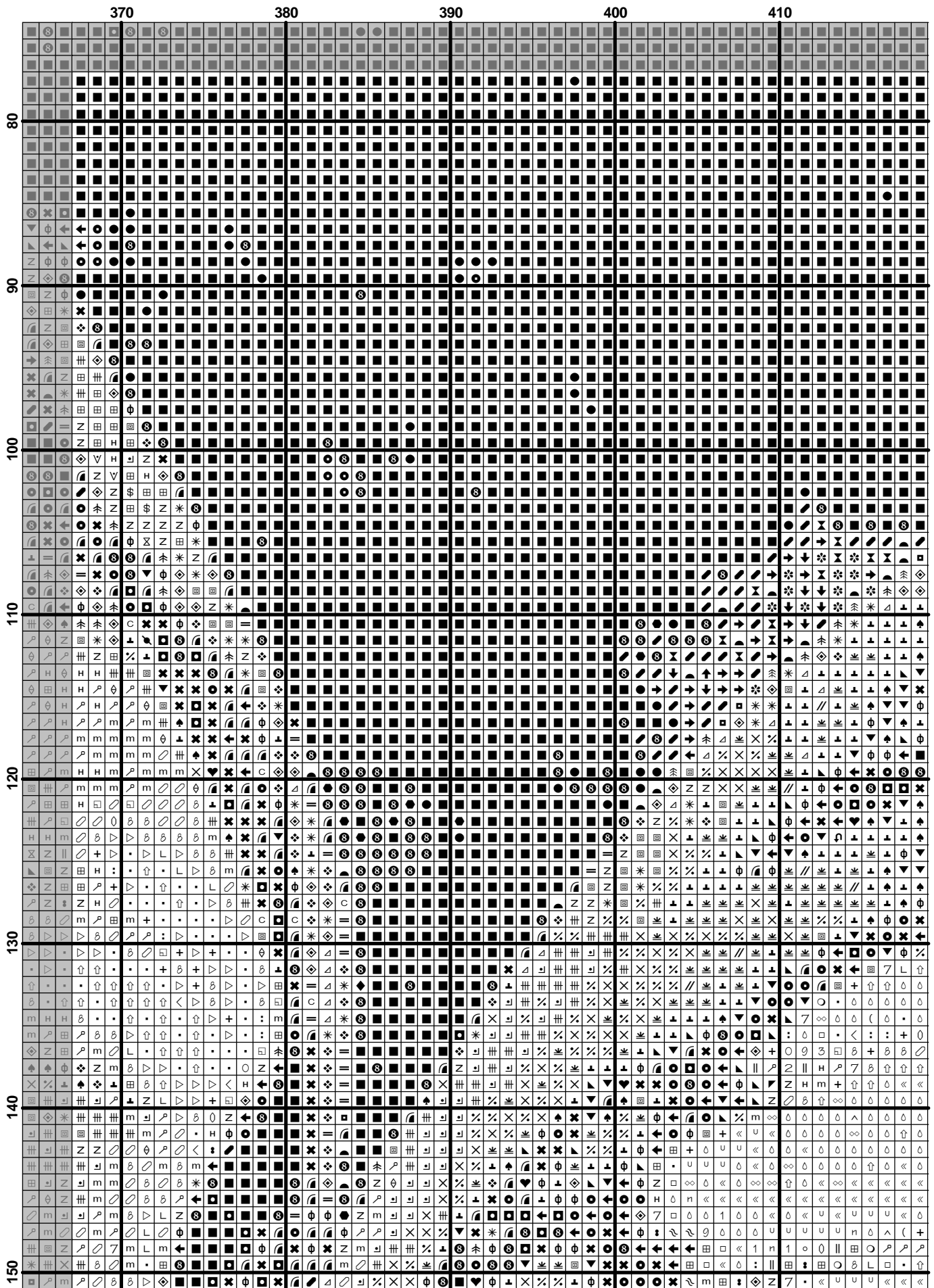


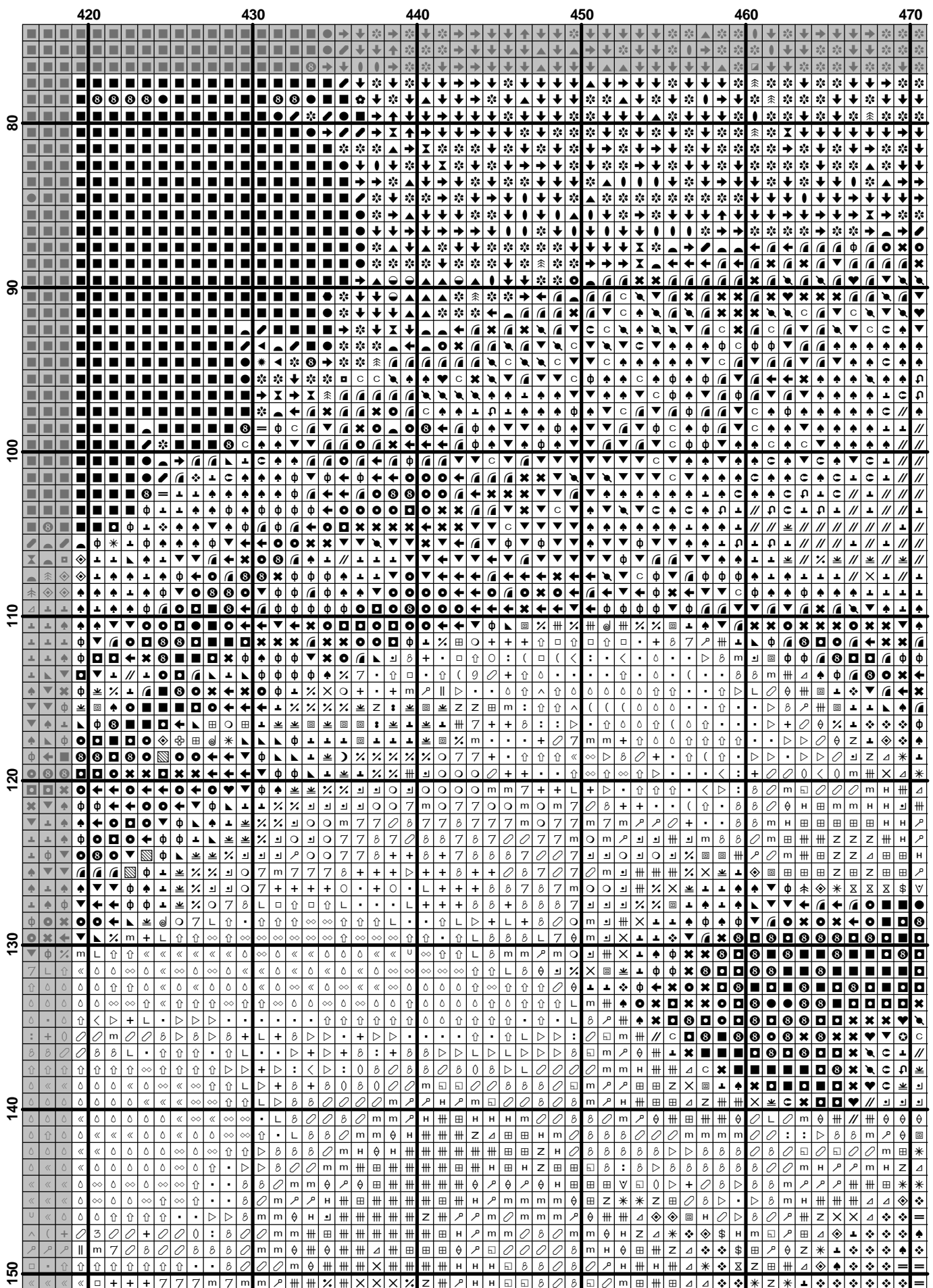


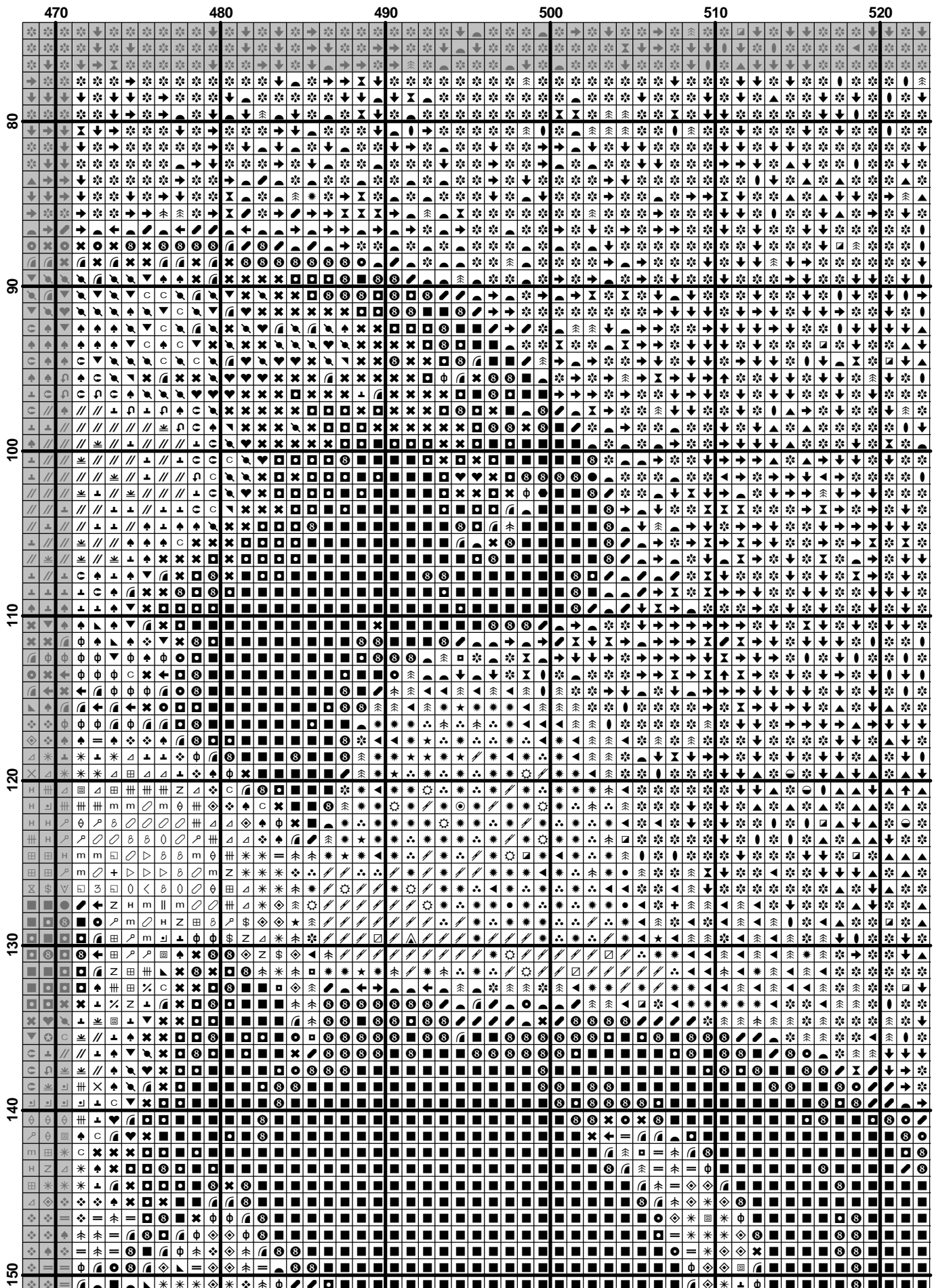


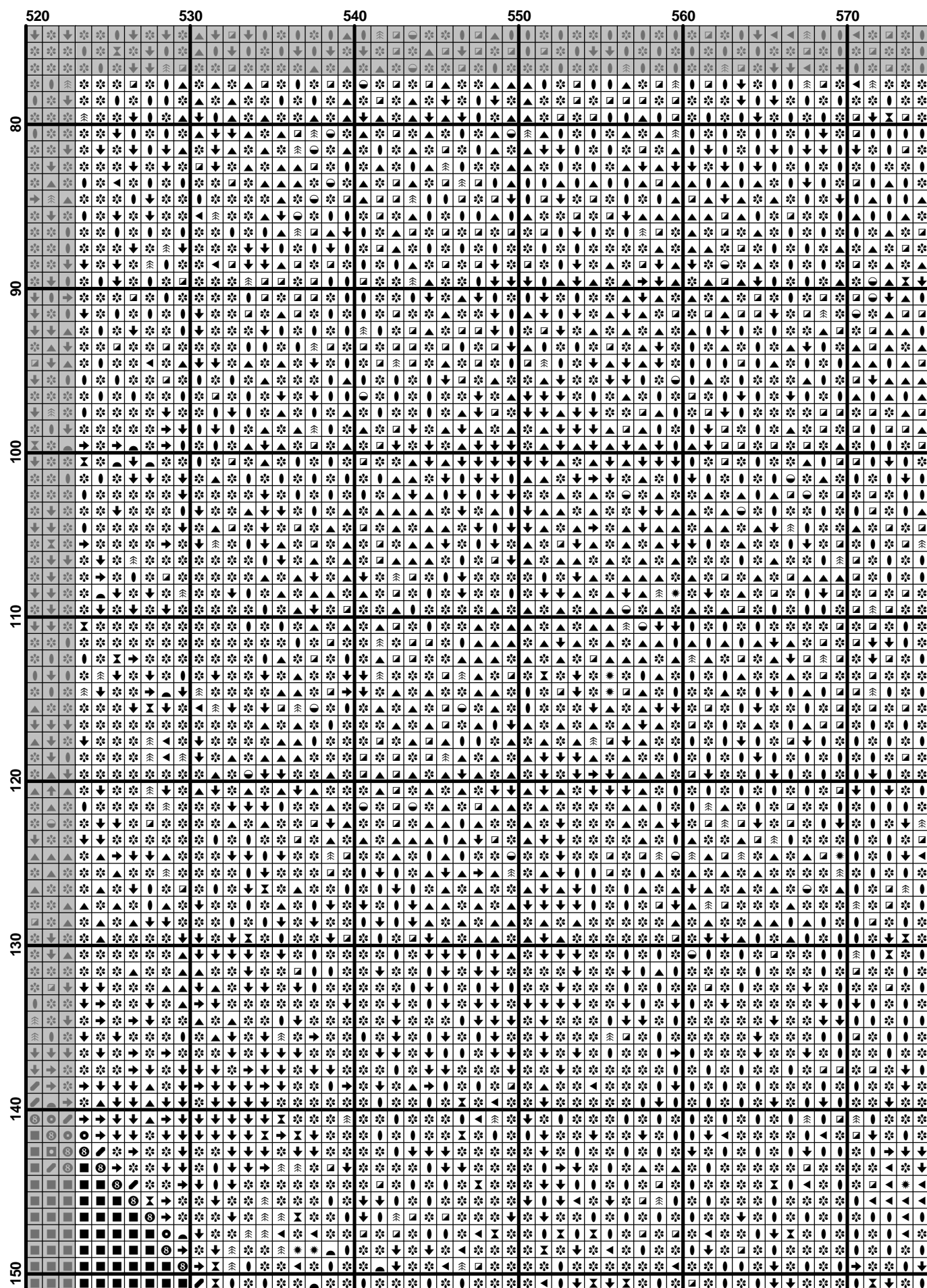


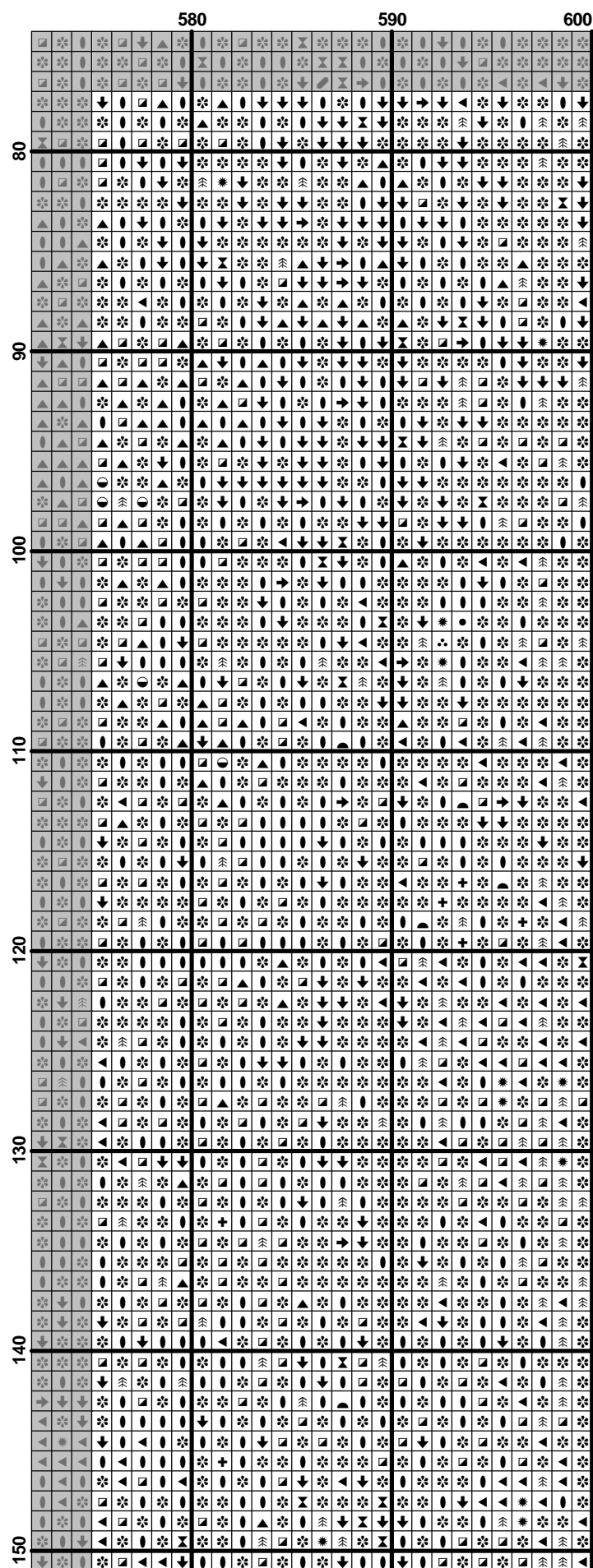


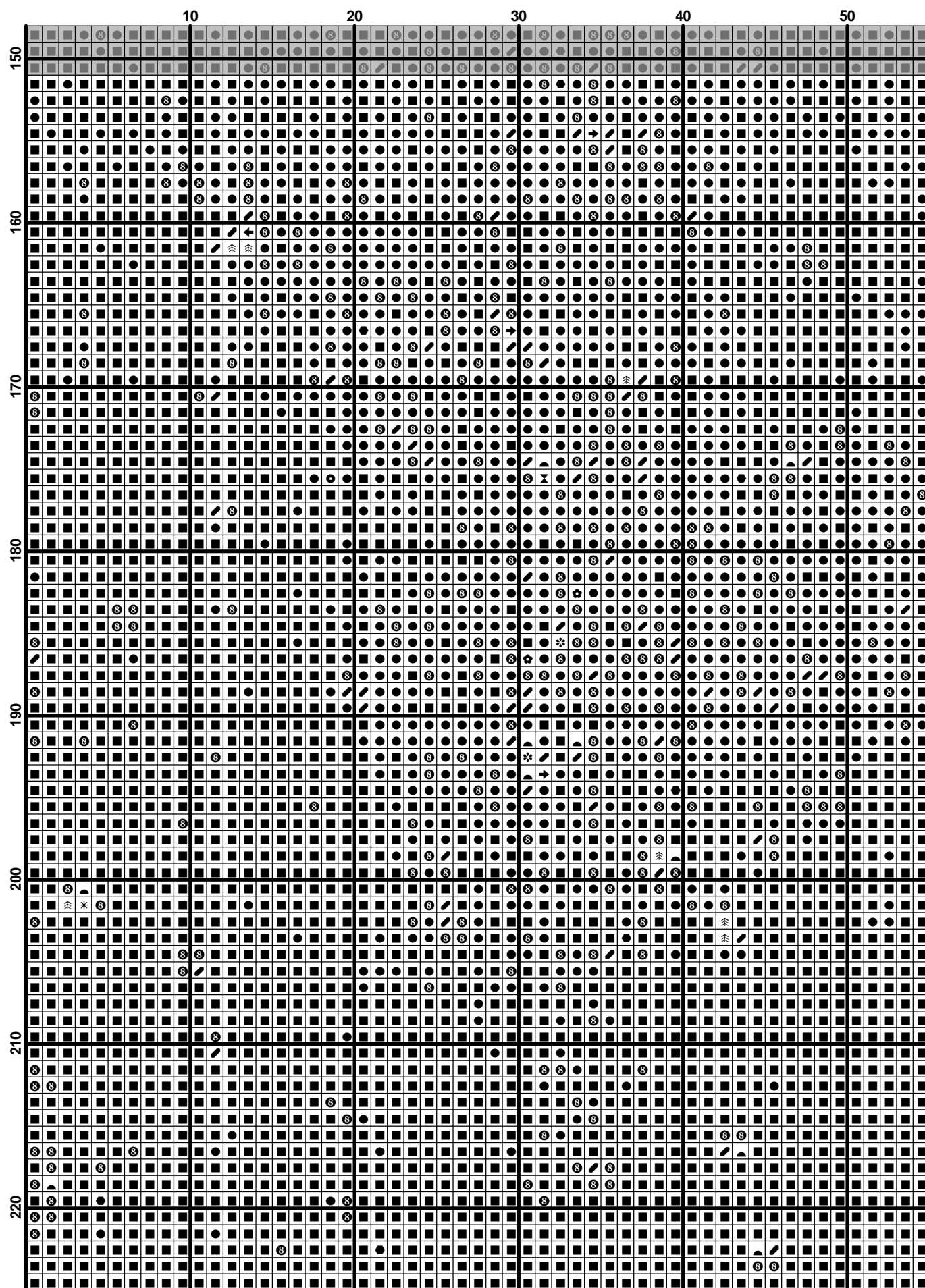


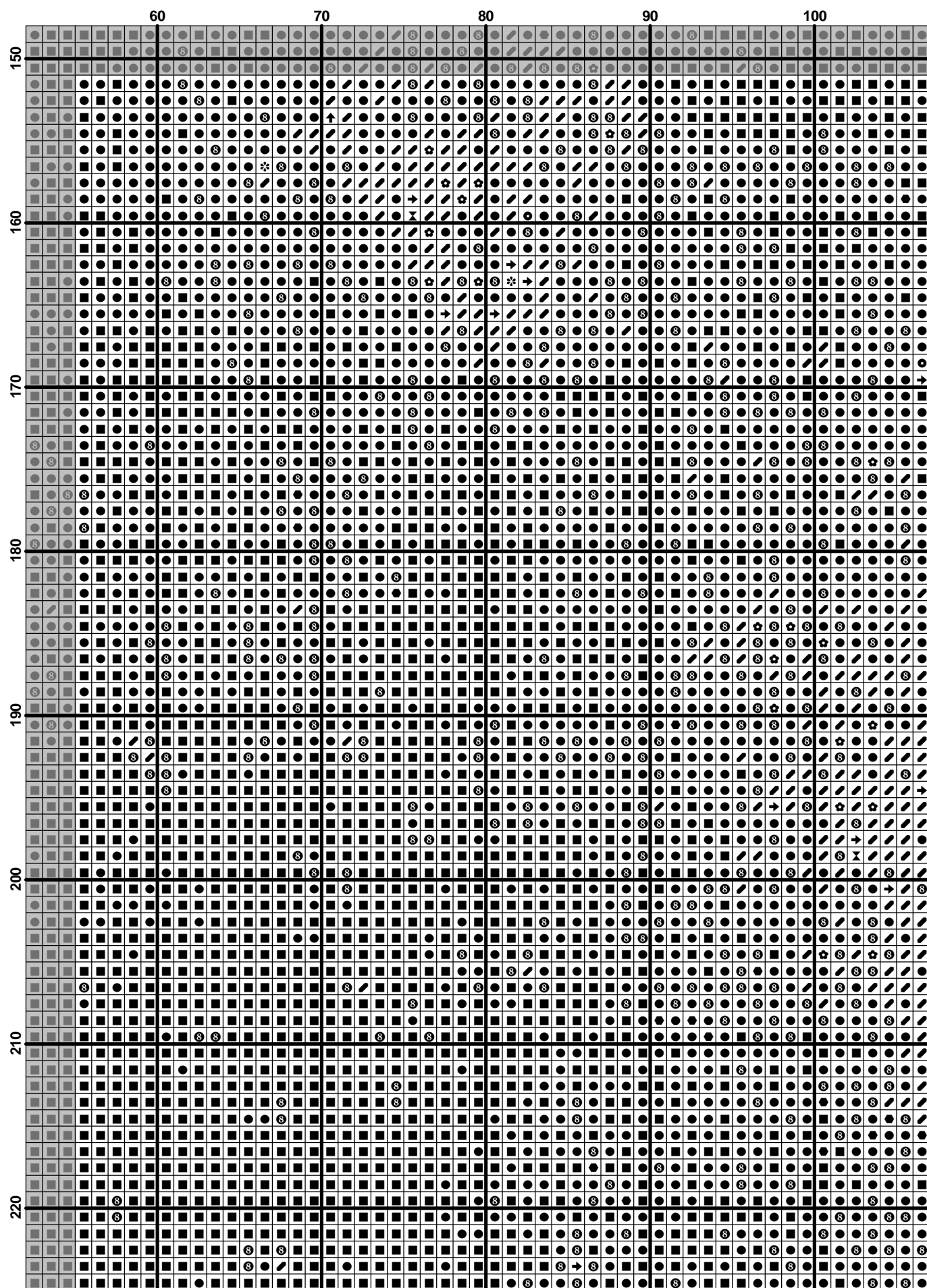




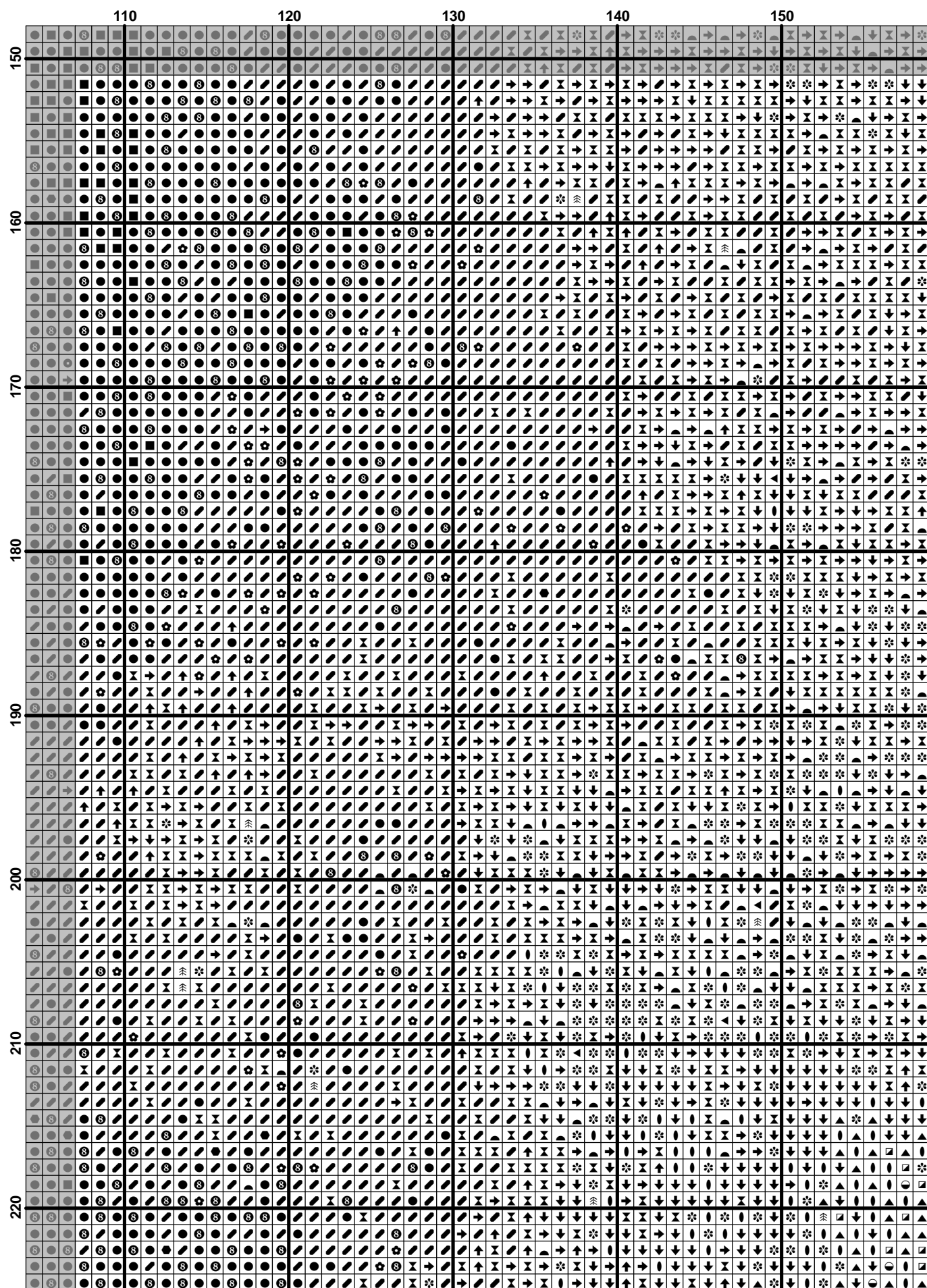


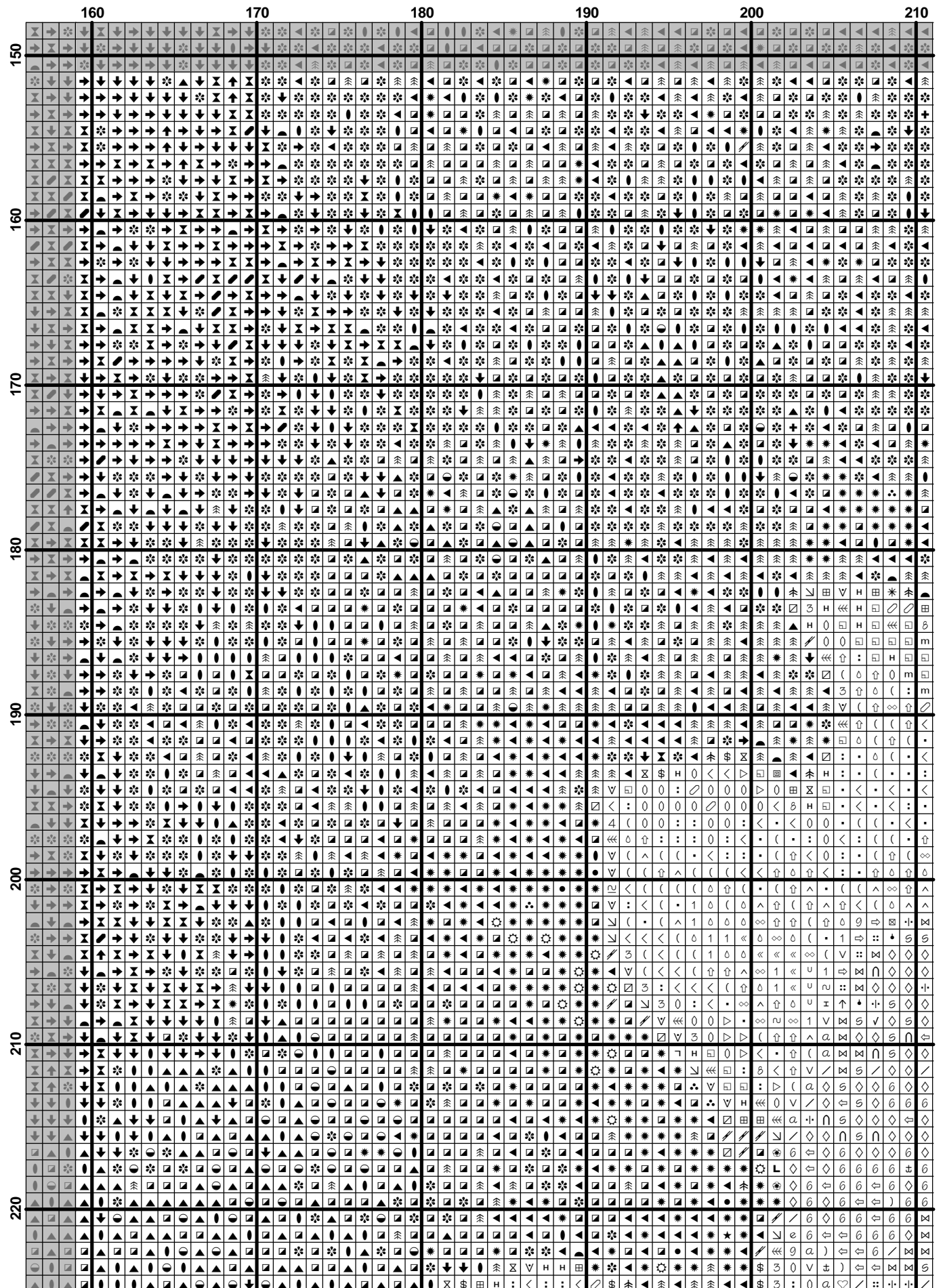




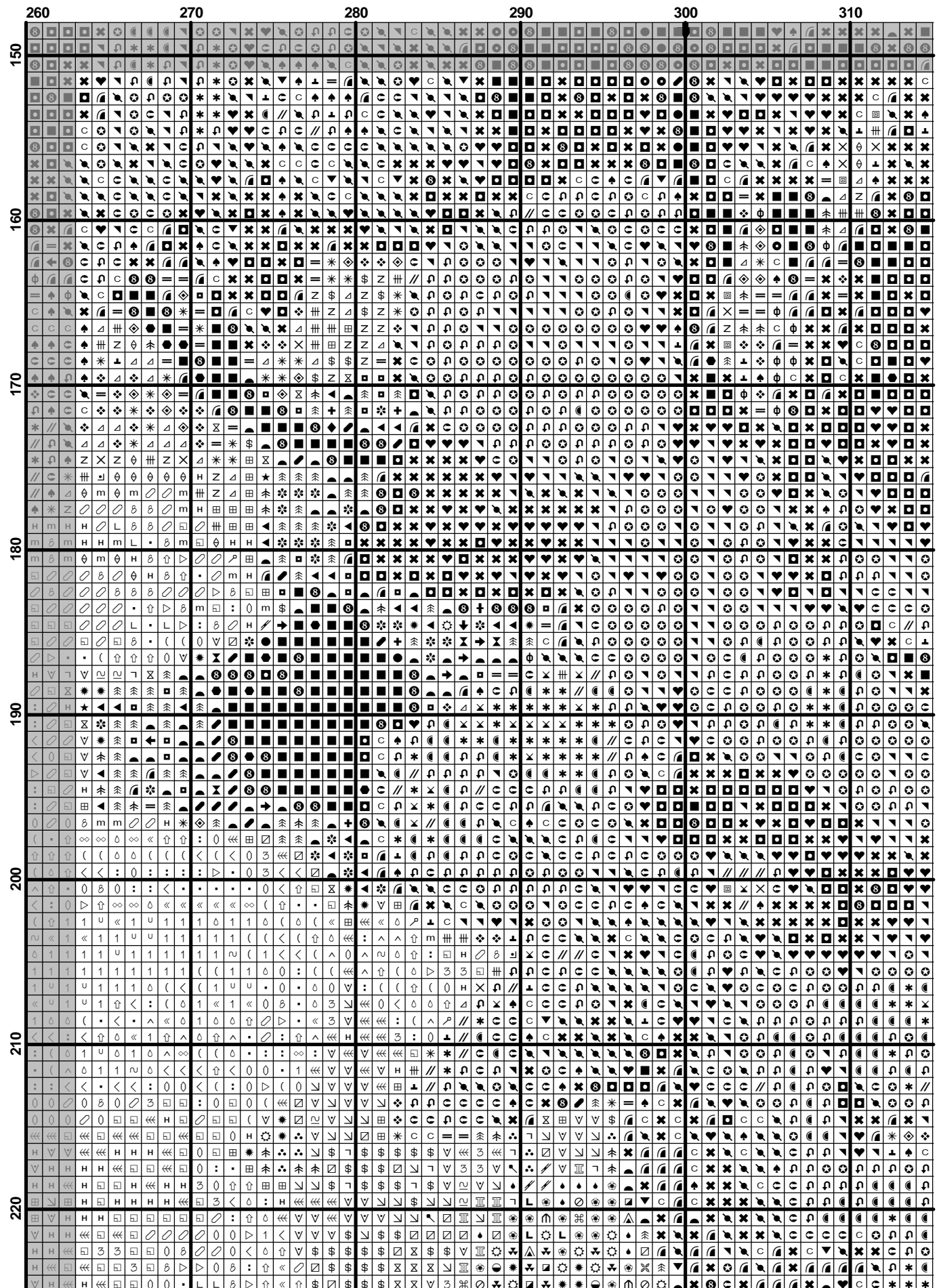


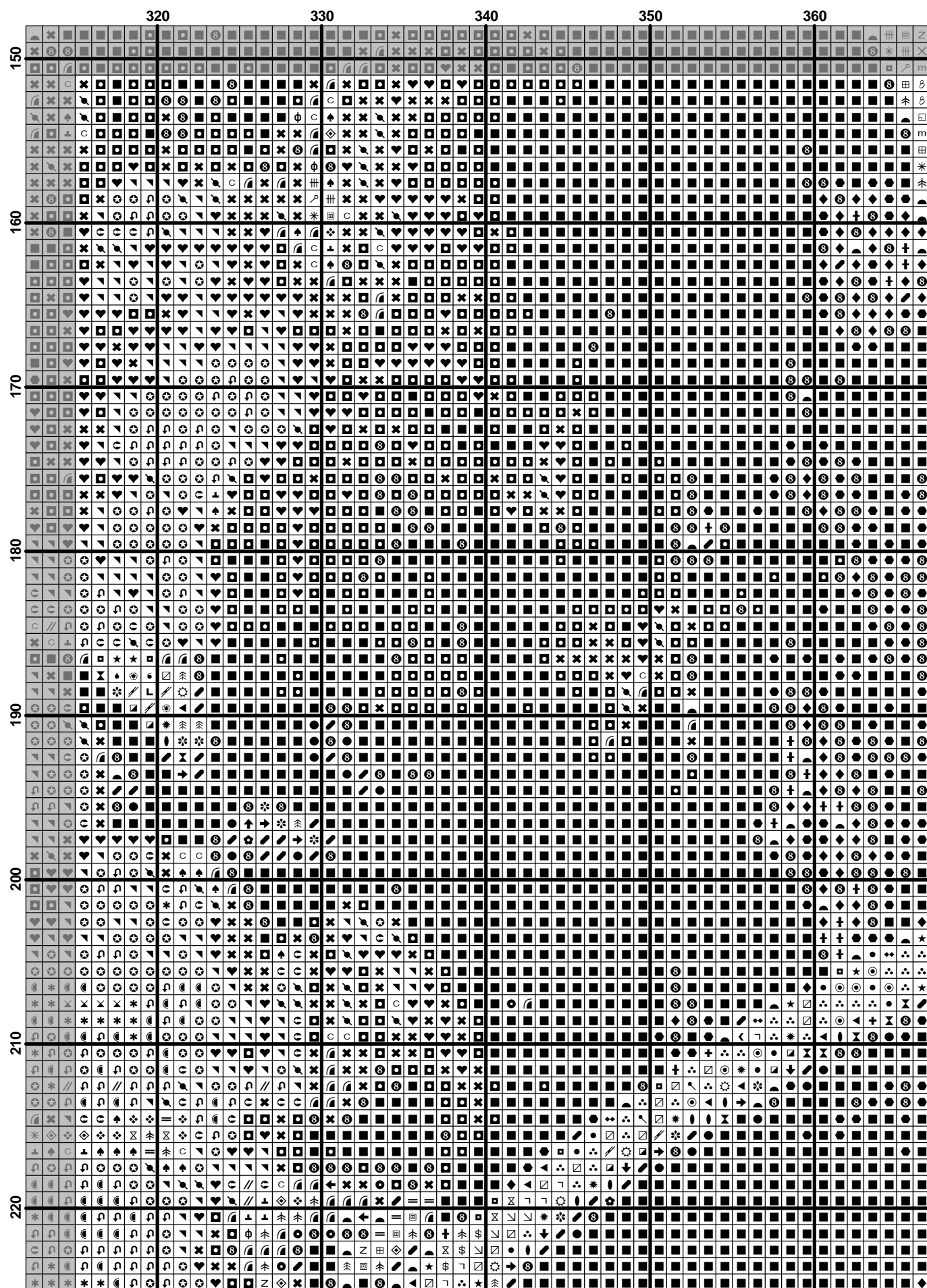




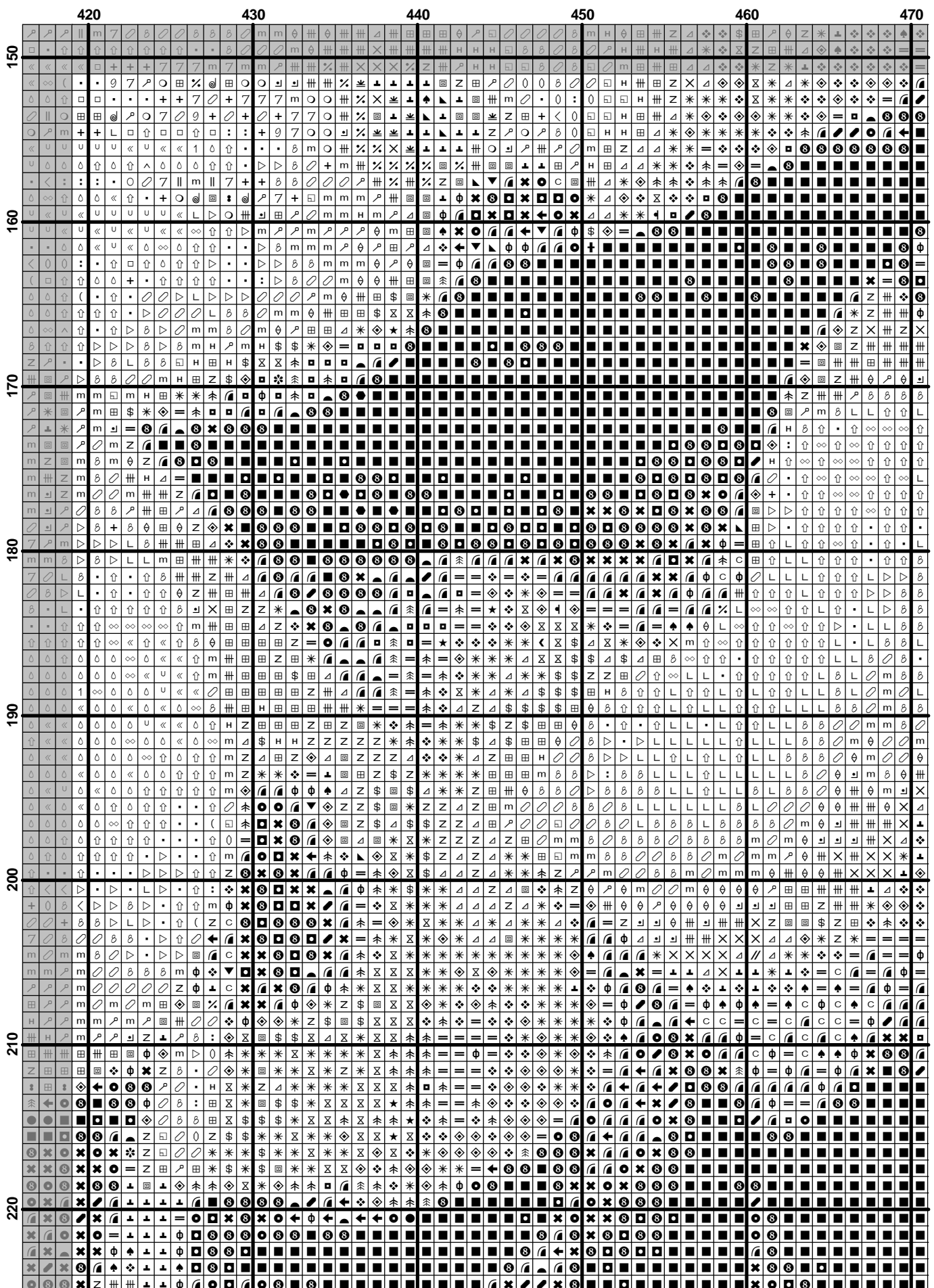


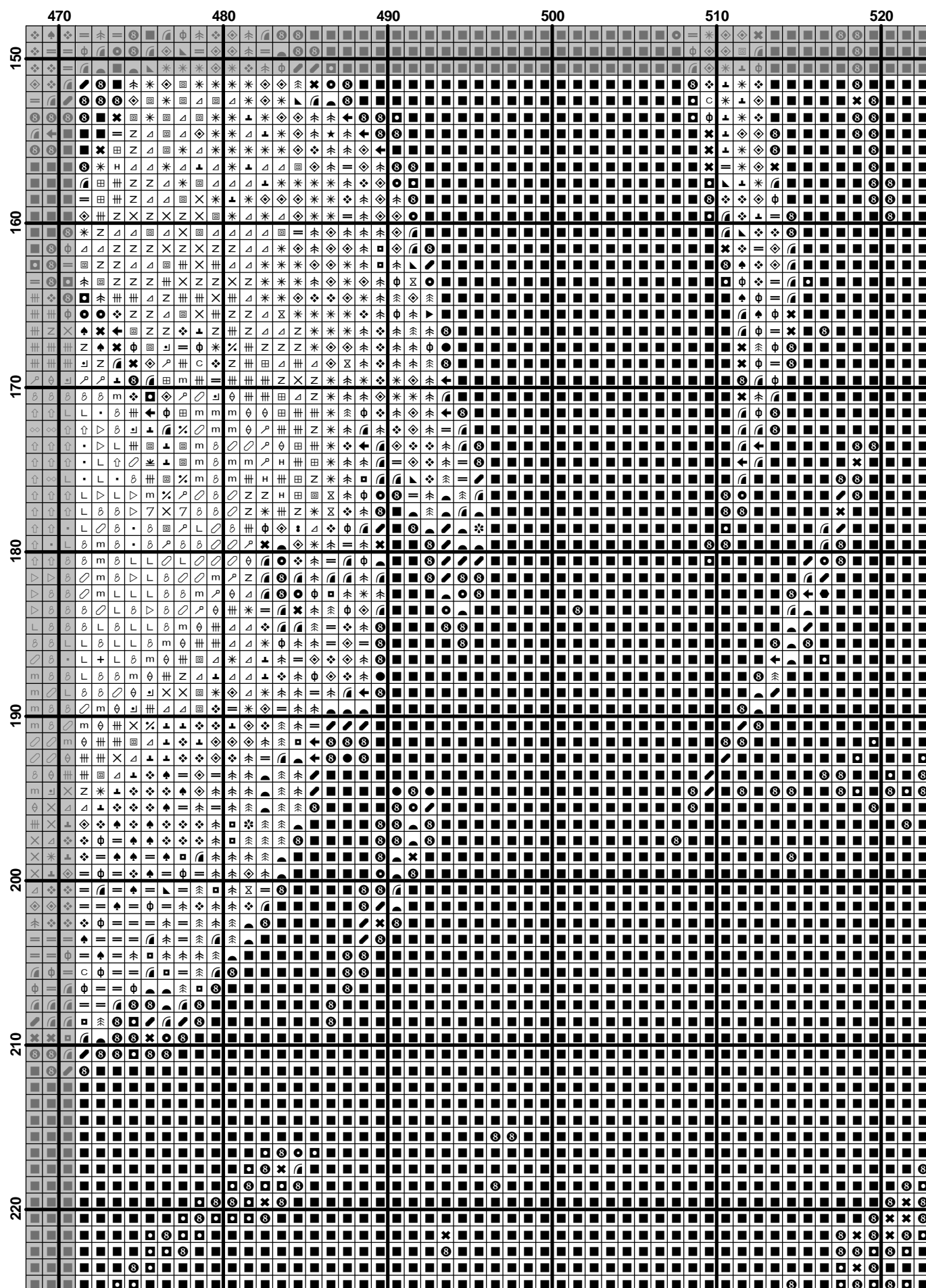
	210	220	230	240	250	260
150	...	...	...	...	...	...
160	...	...	...	...	...	...
170	...	...	...	...	...	...
180	...	...	...	...	...	...
190	...	...	...	...	...	...
200	...	...	...	...	...	...
210	...	...	...	...	...	...
220	...	...	...	...	...	...



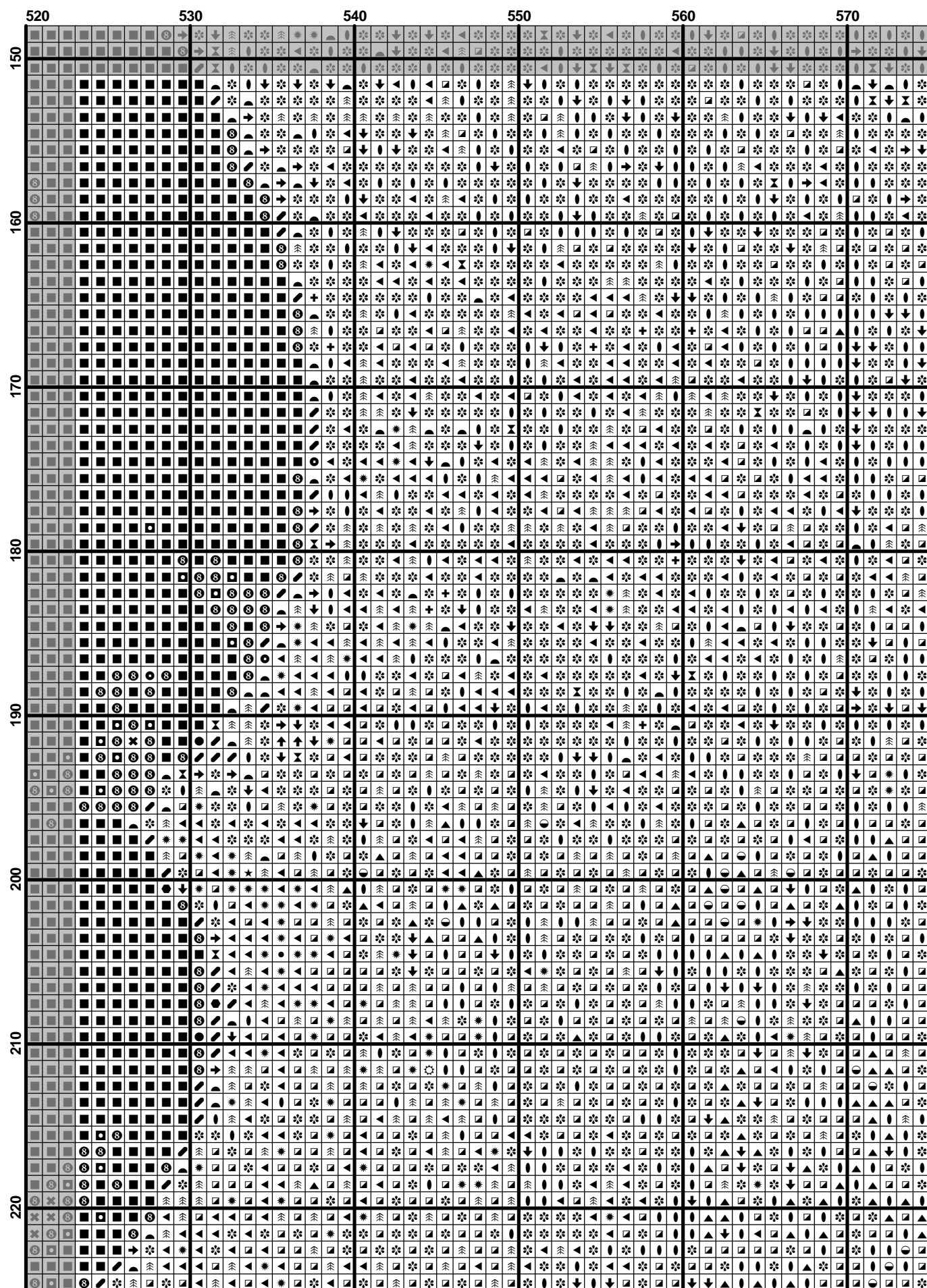


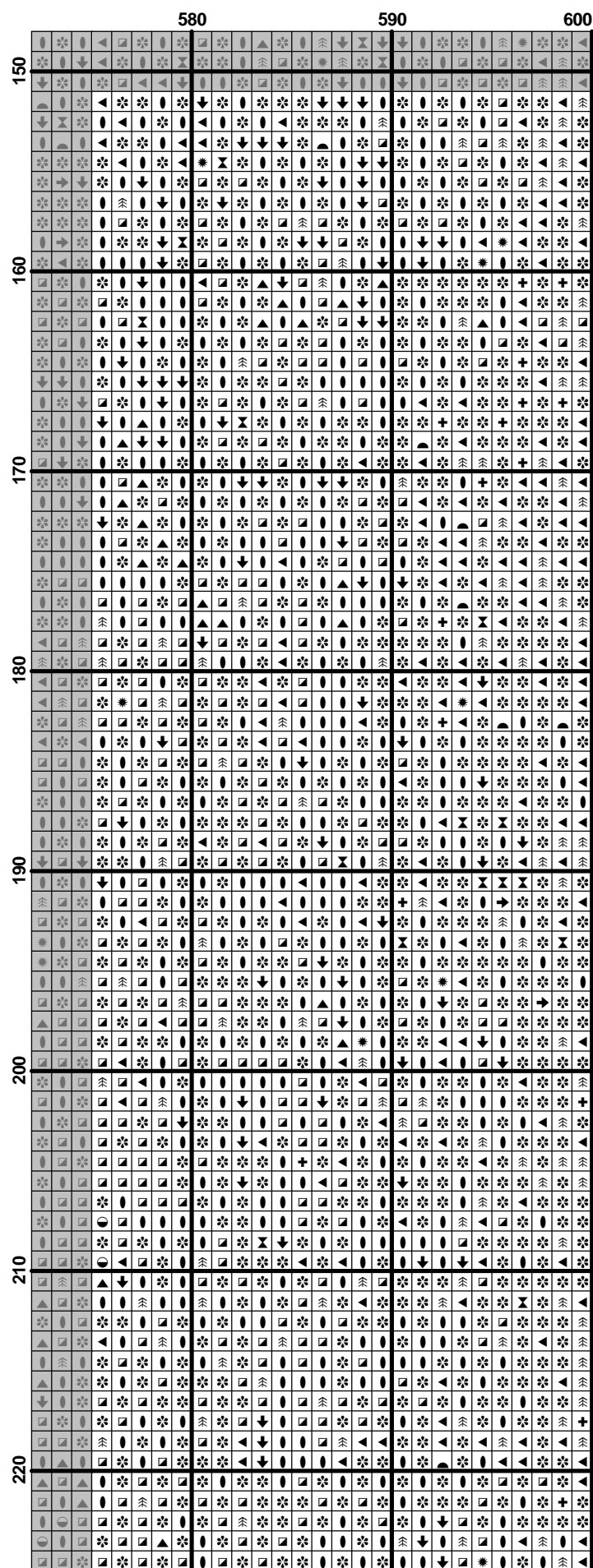
	370	380	390	400	410
150	...	...	...	...	...
160	...	...	...	...	...
170	...	...	...	...	...
180	...	...	...	...	...
190	...	...	...	...	...
200	...	...	...	...	...
210	...	...	...	...	...
220	...	...	...	...	...

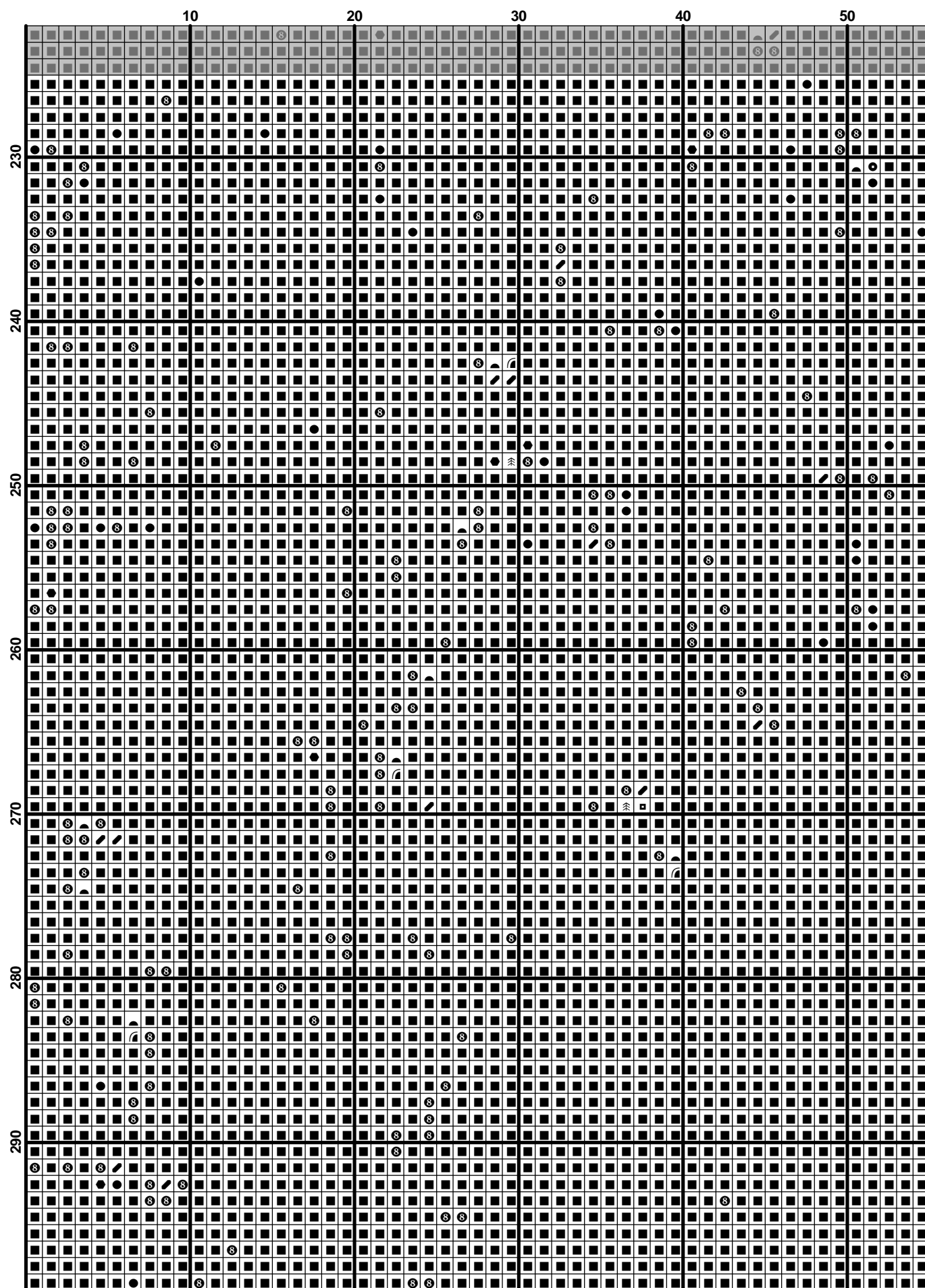


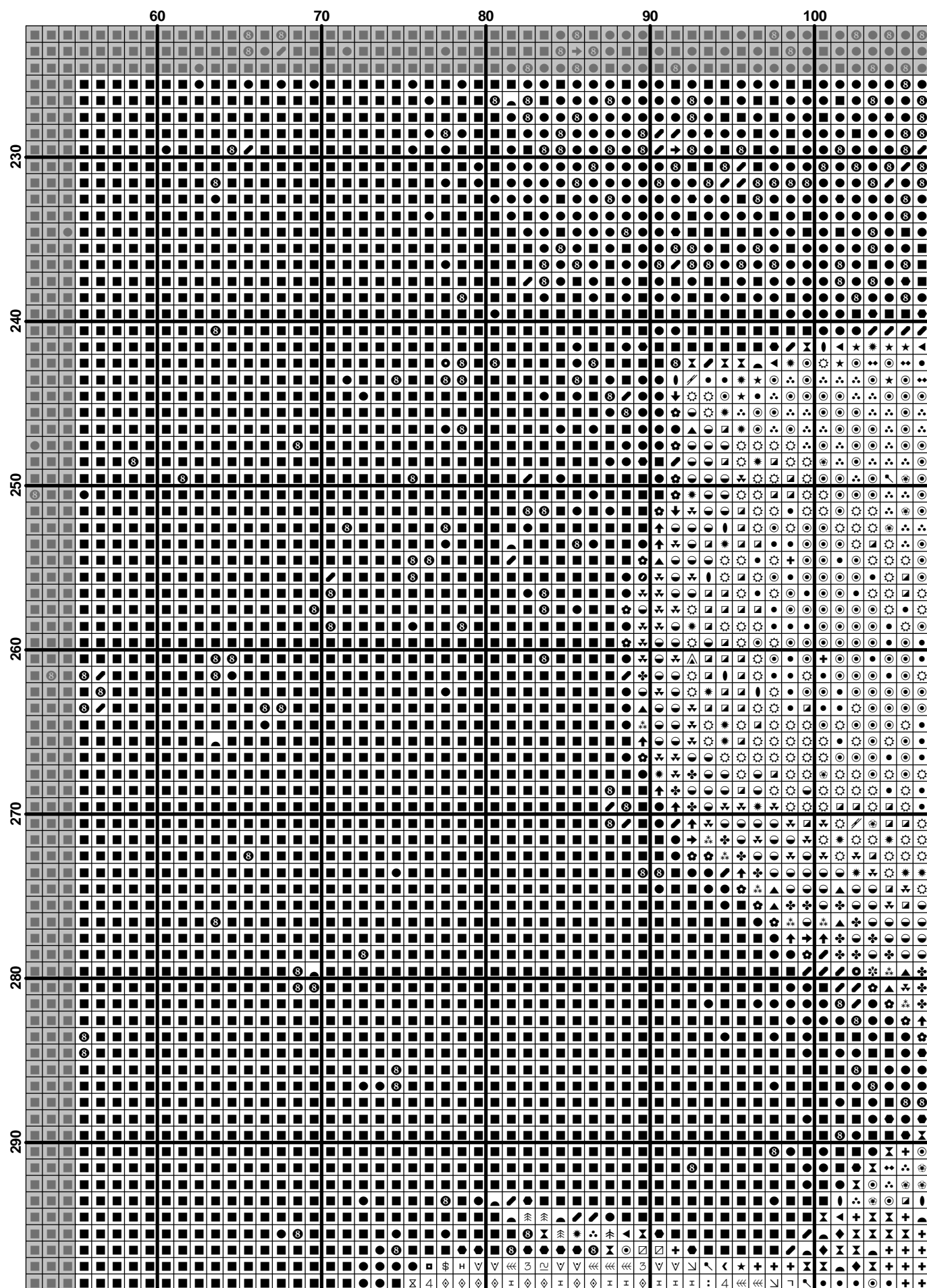


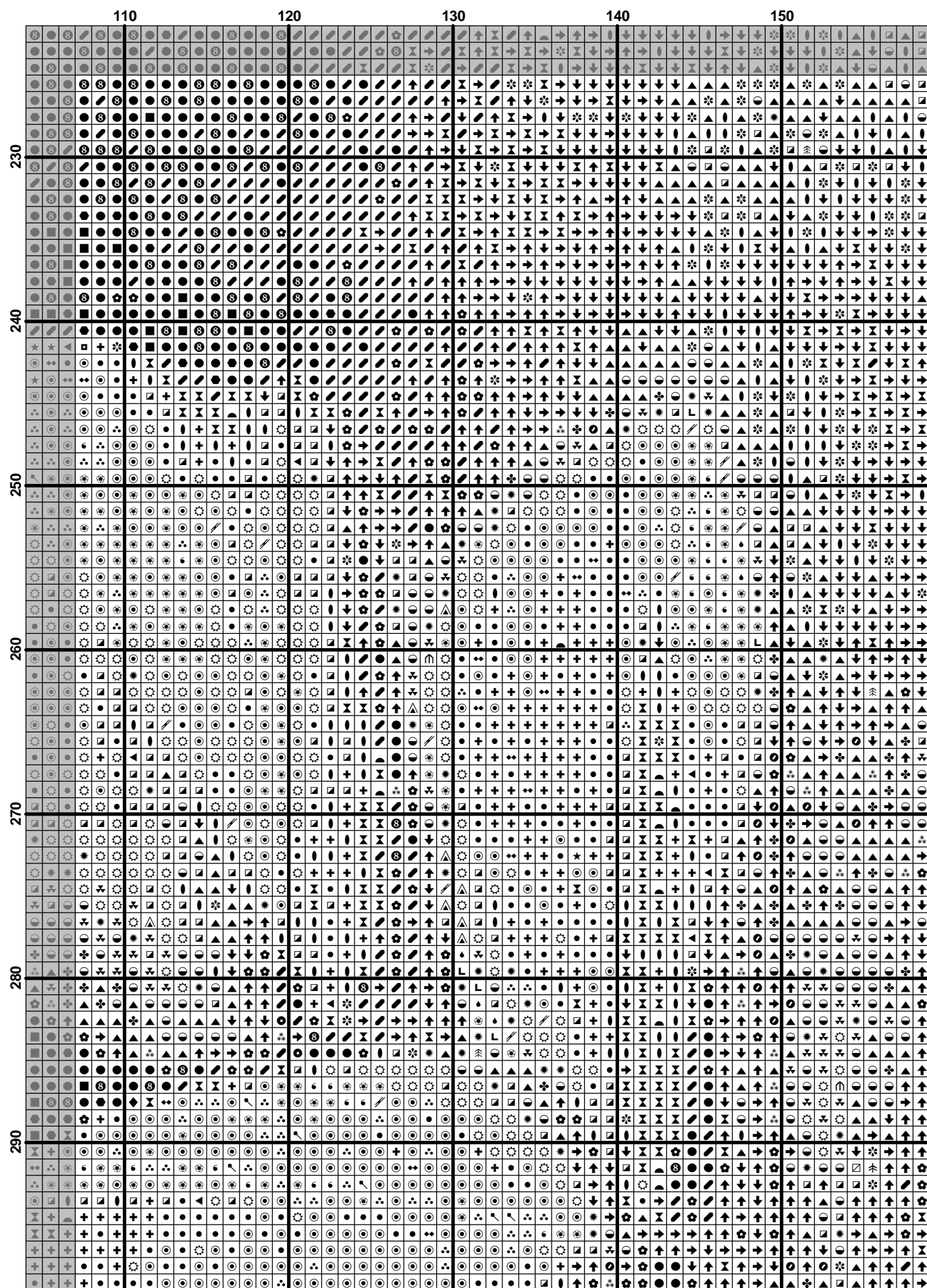


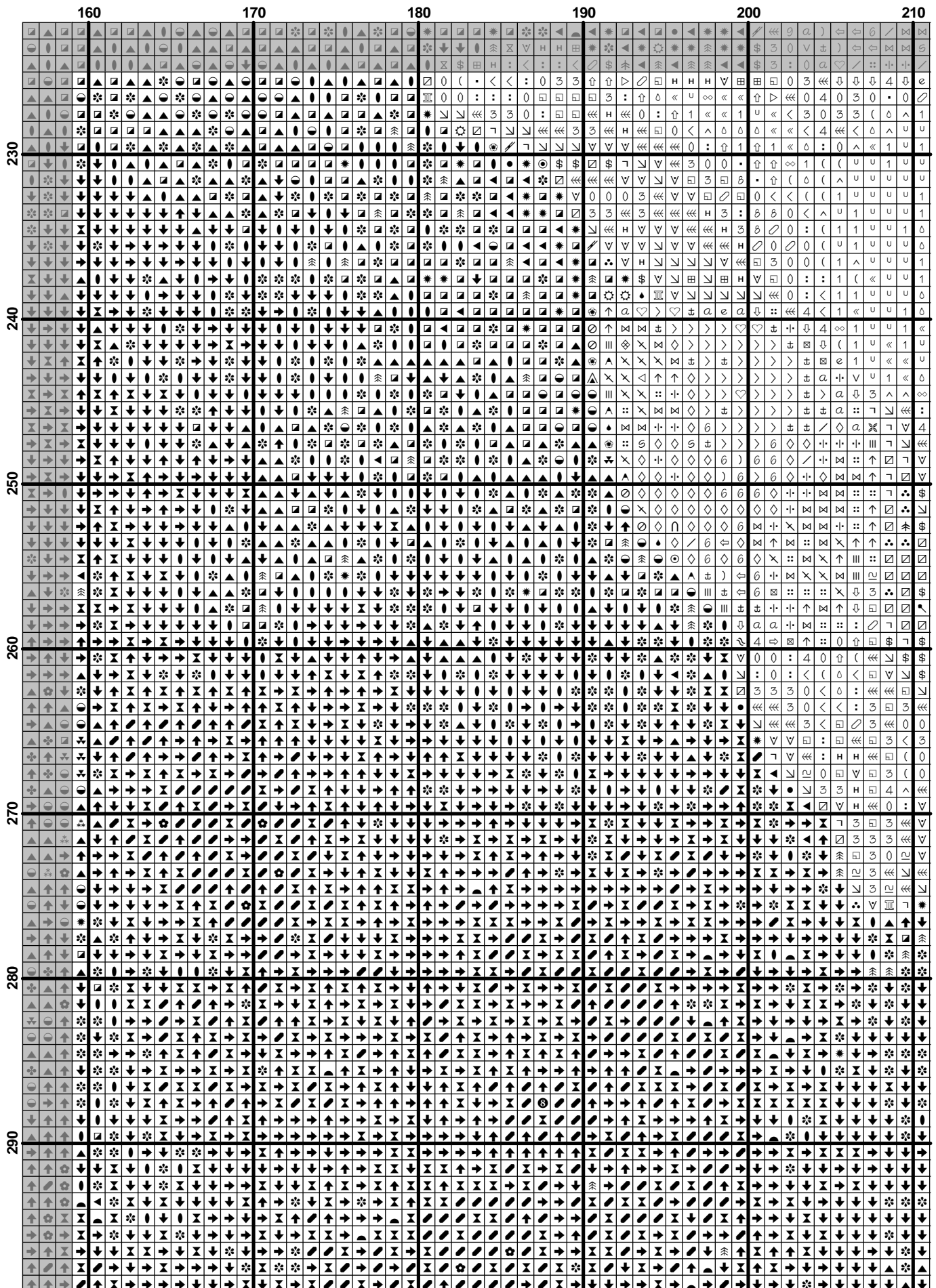


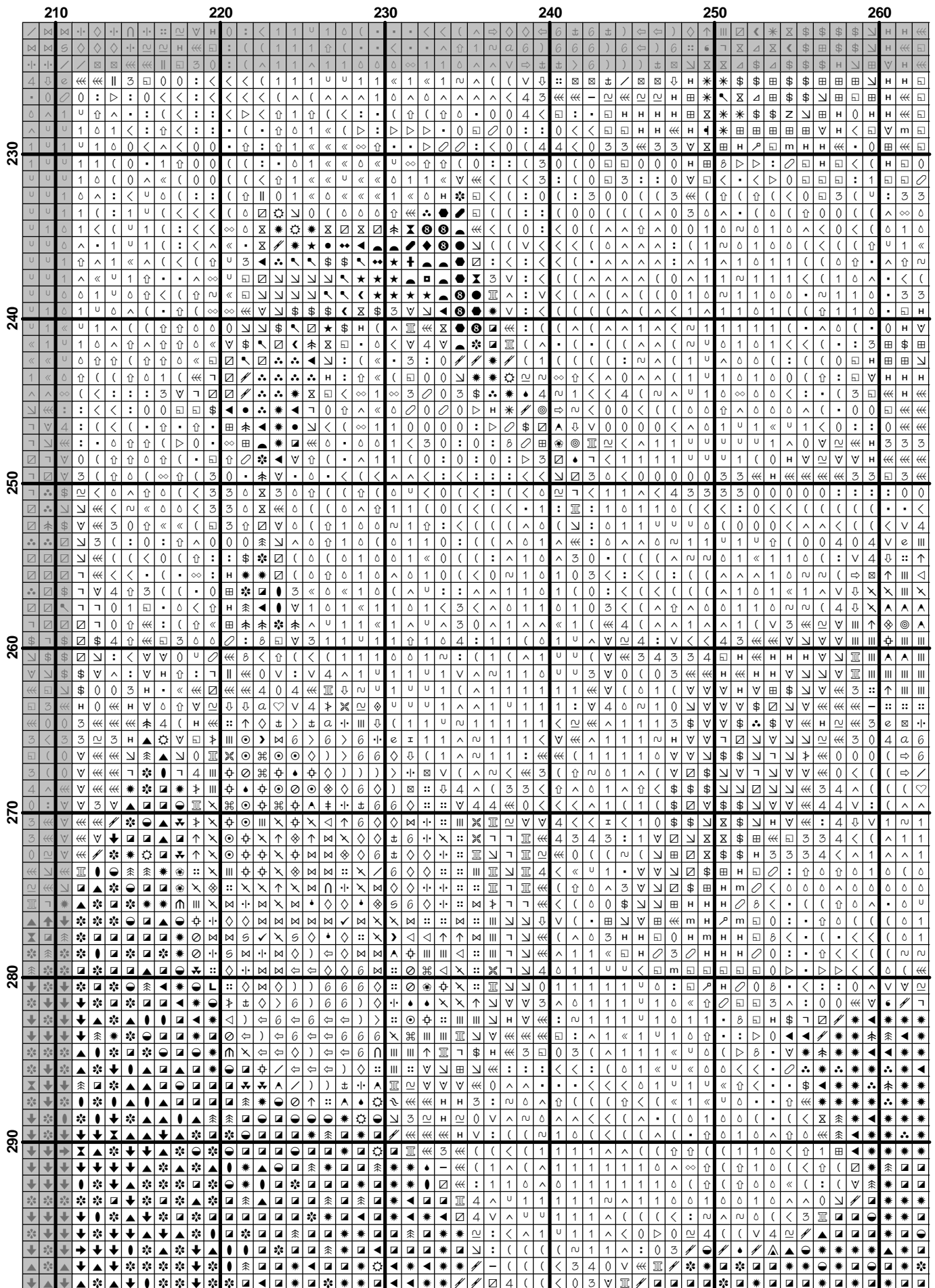


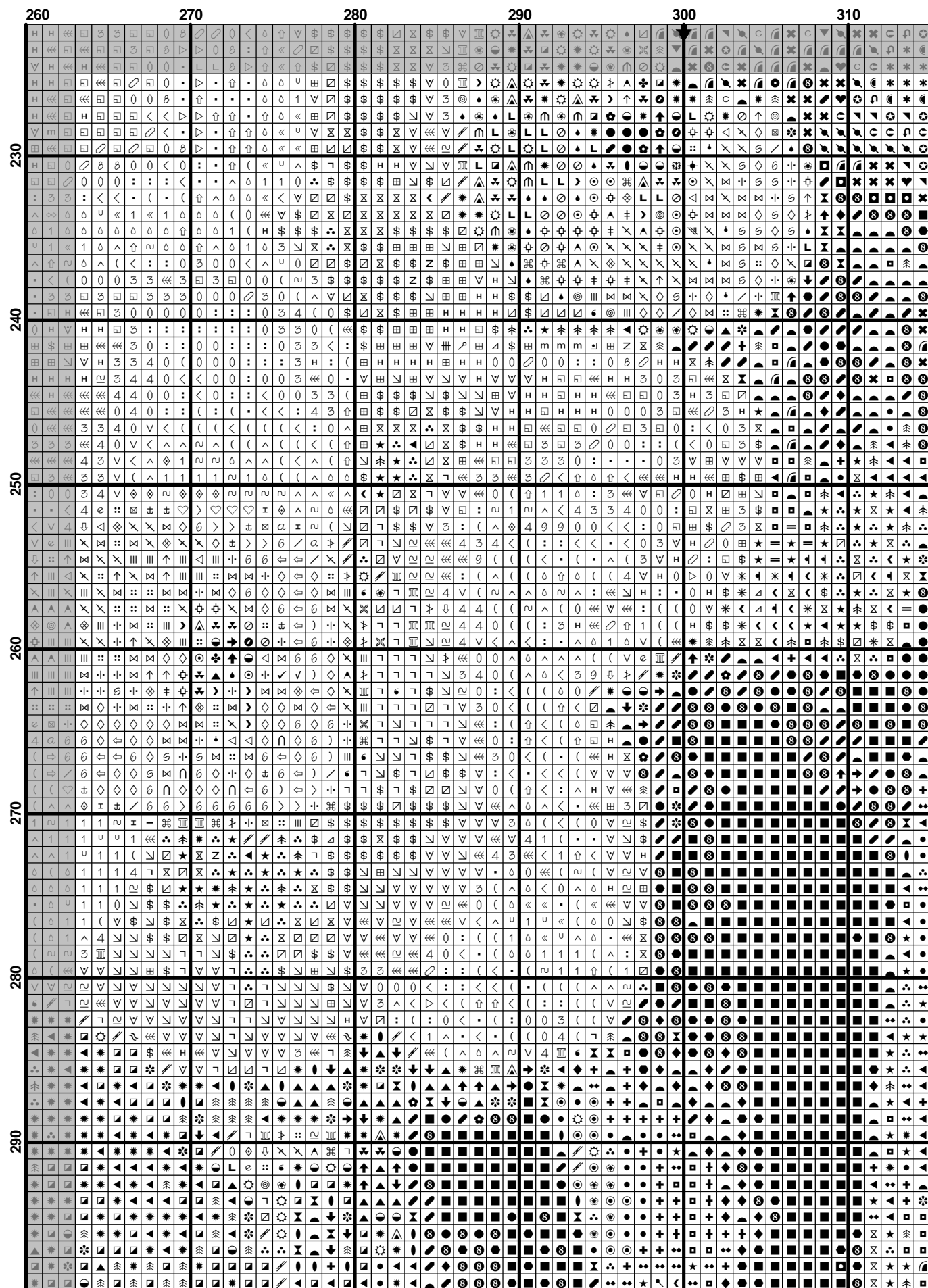




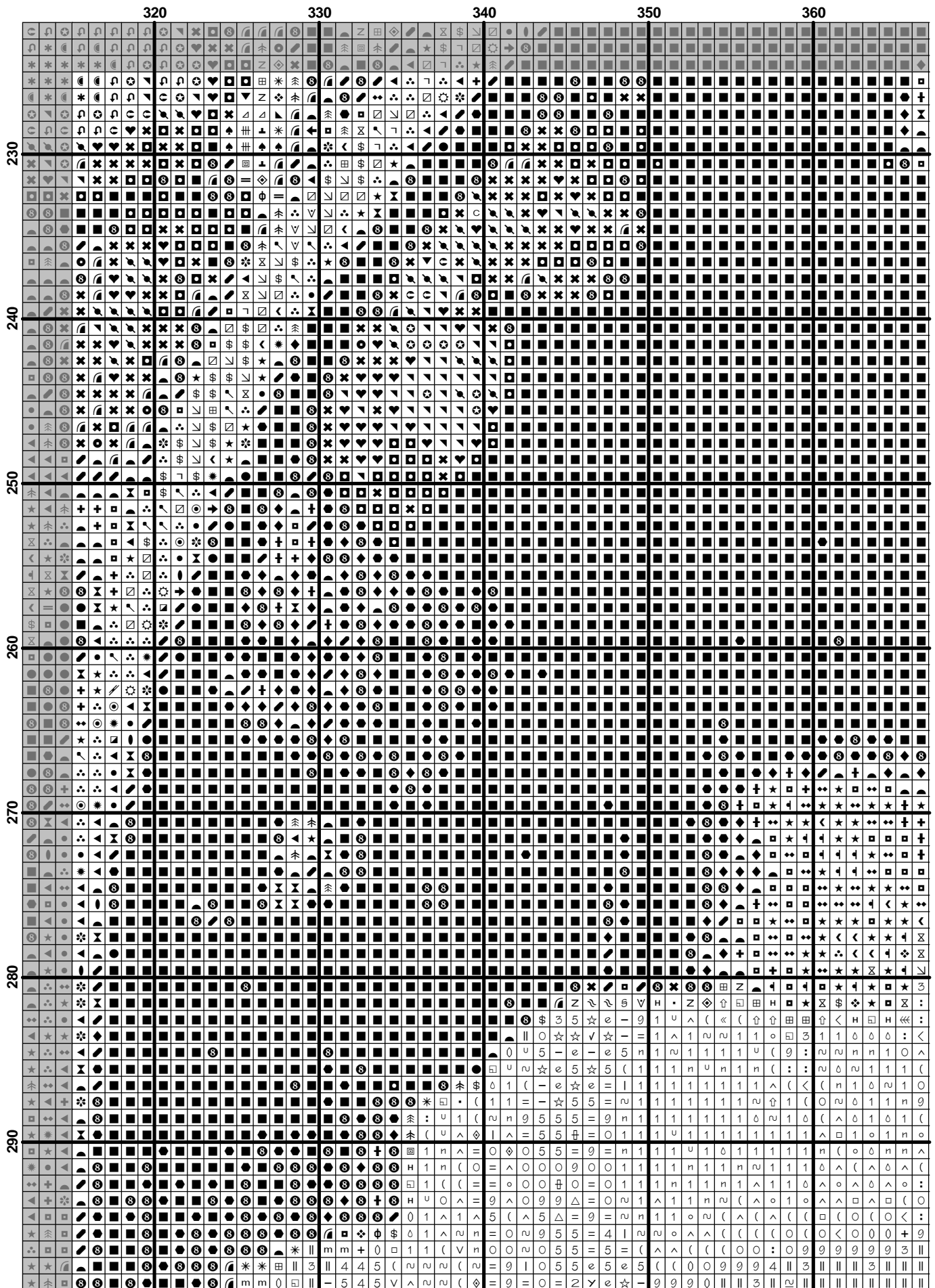


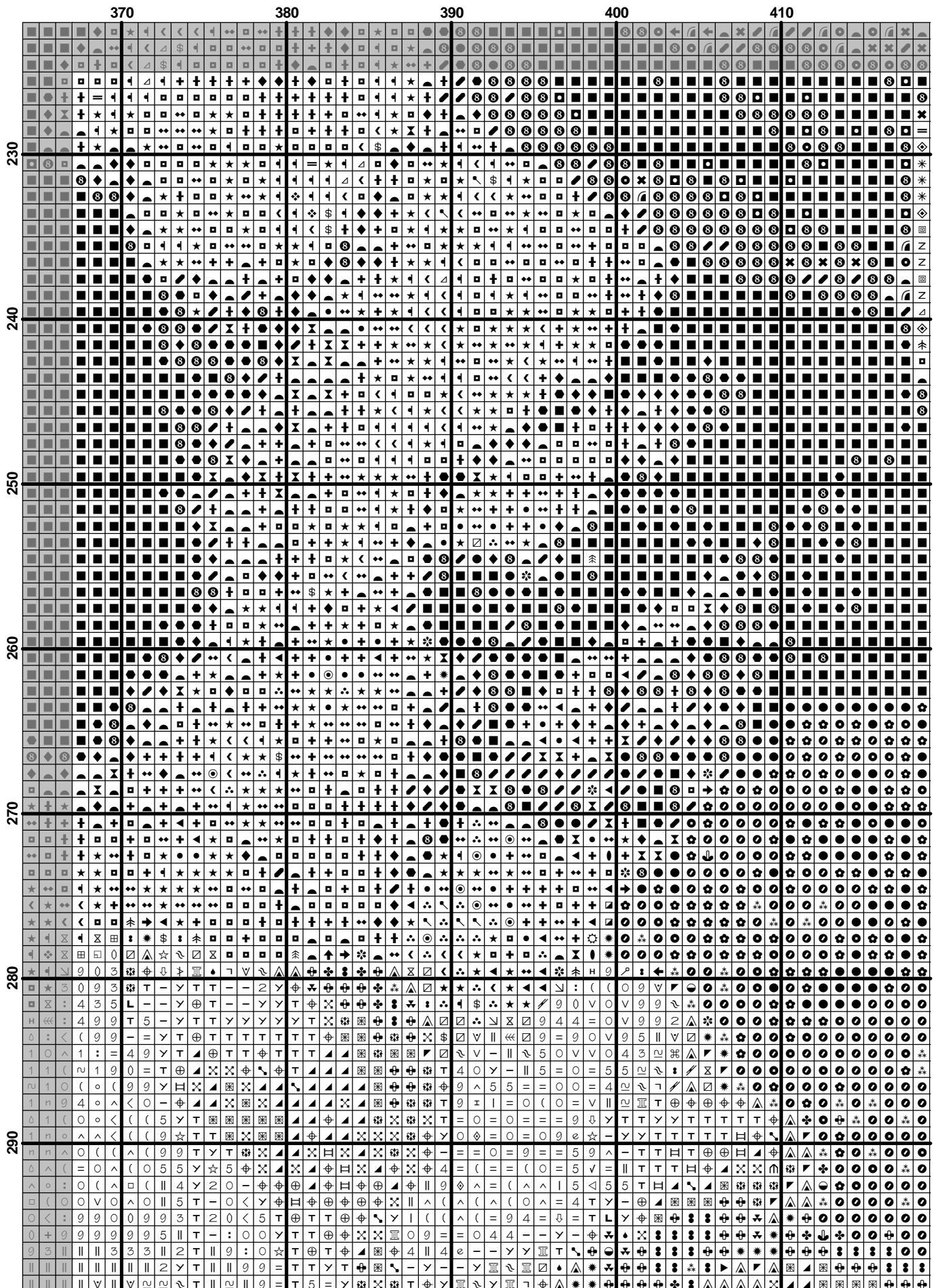


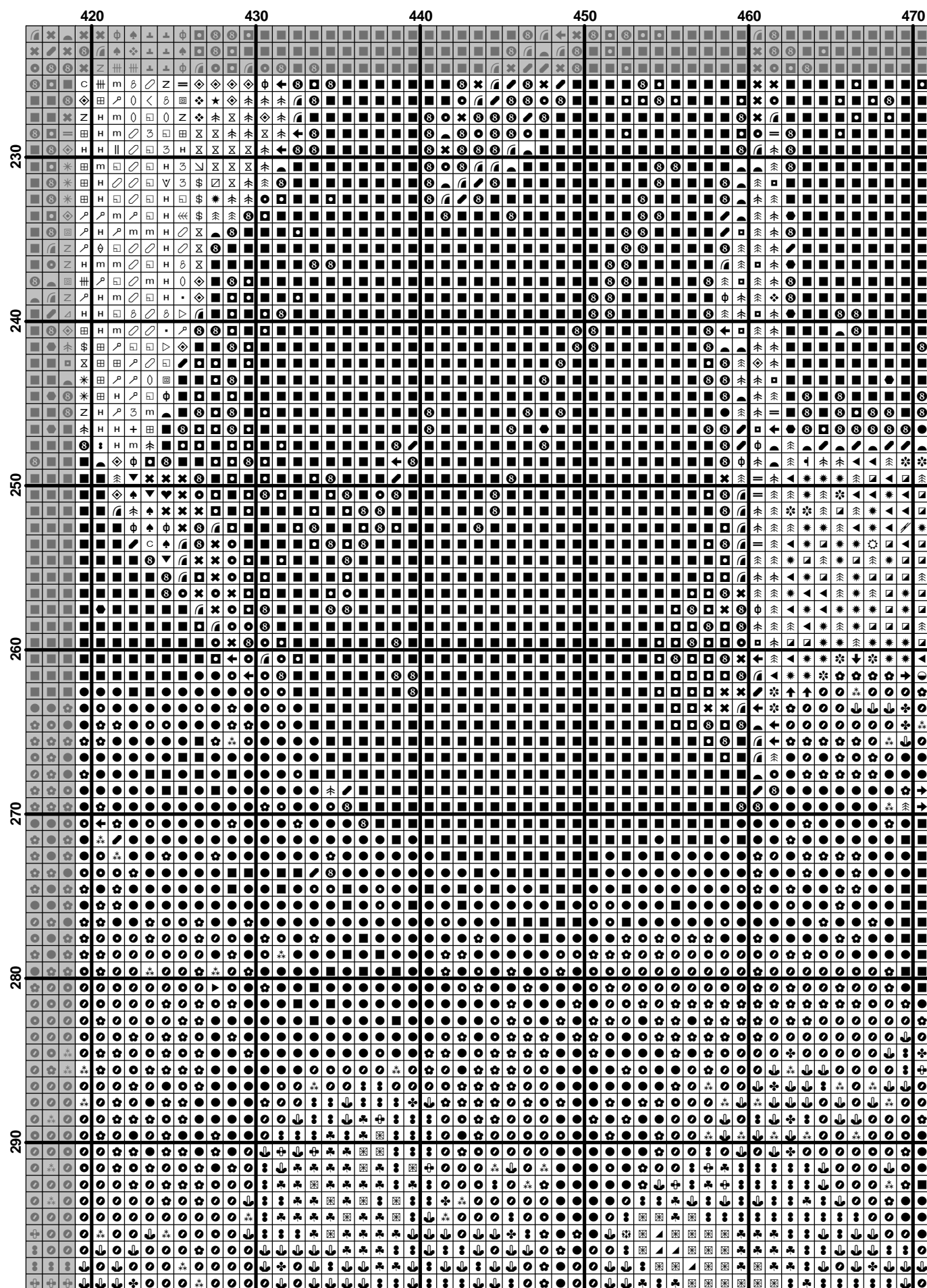


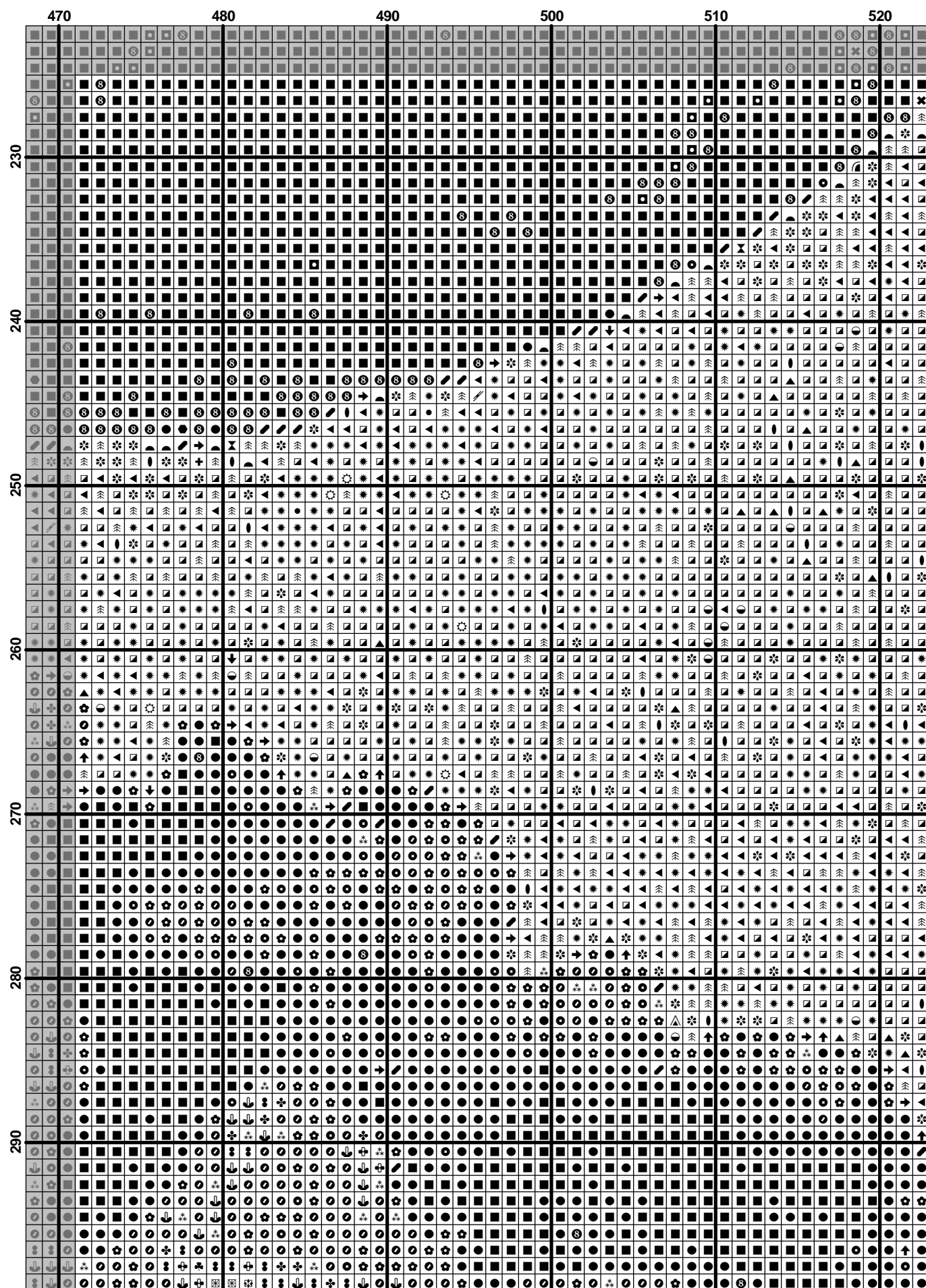


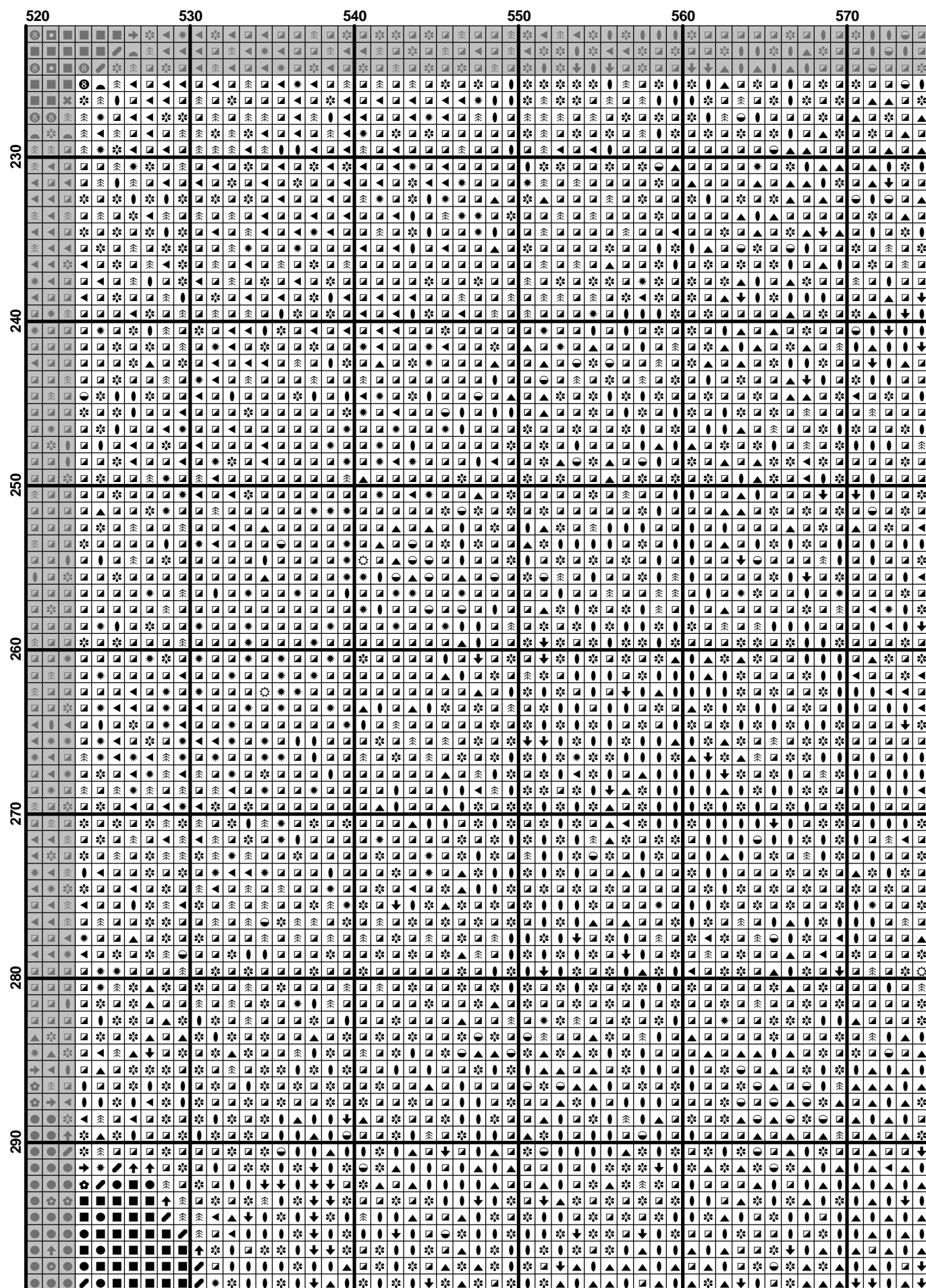


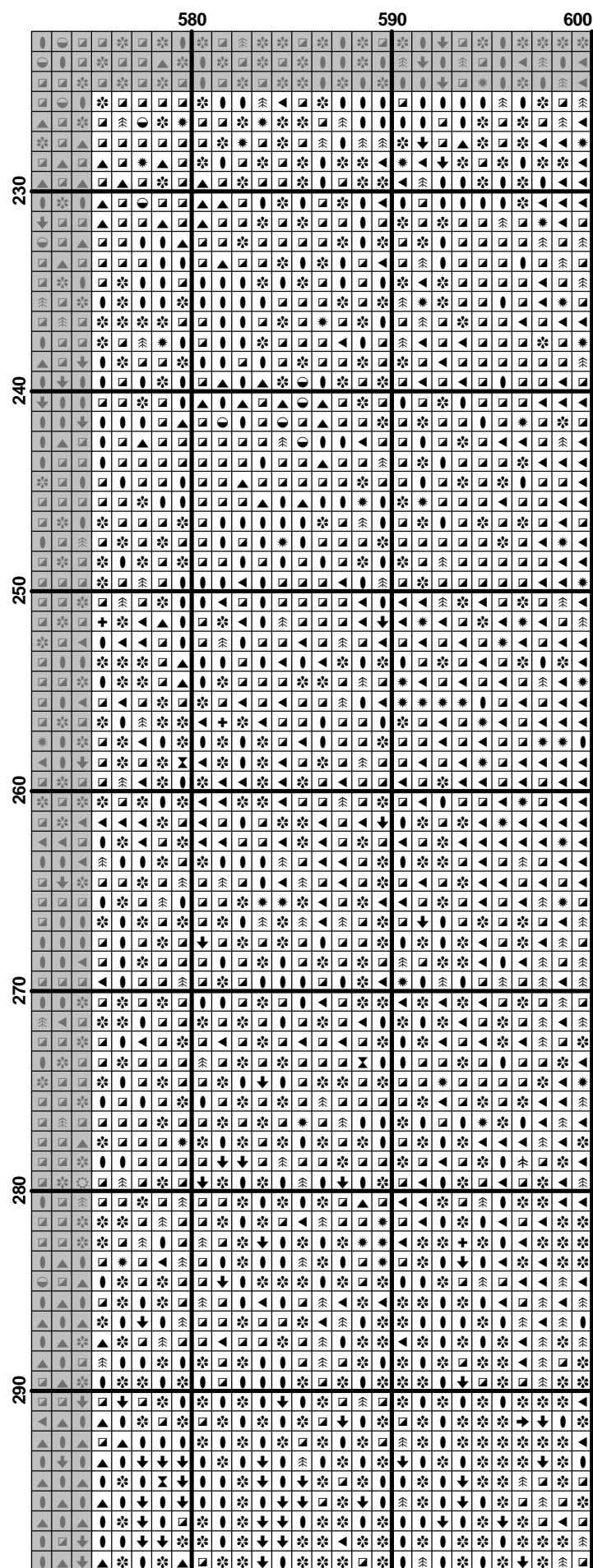


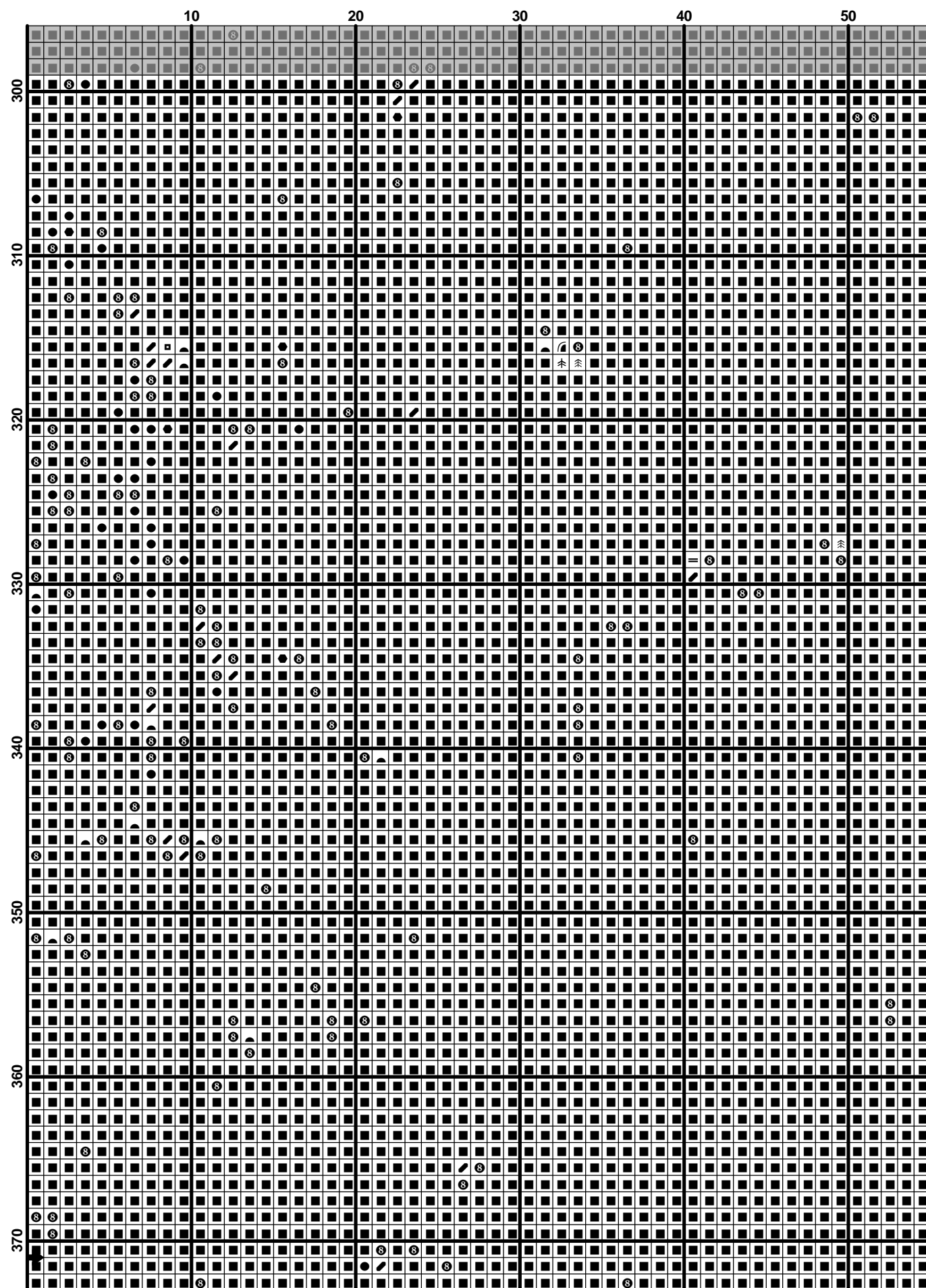


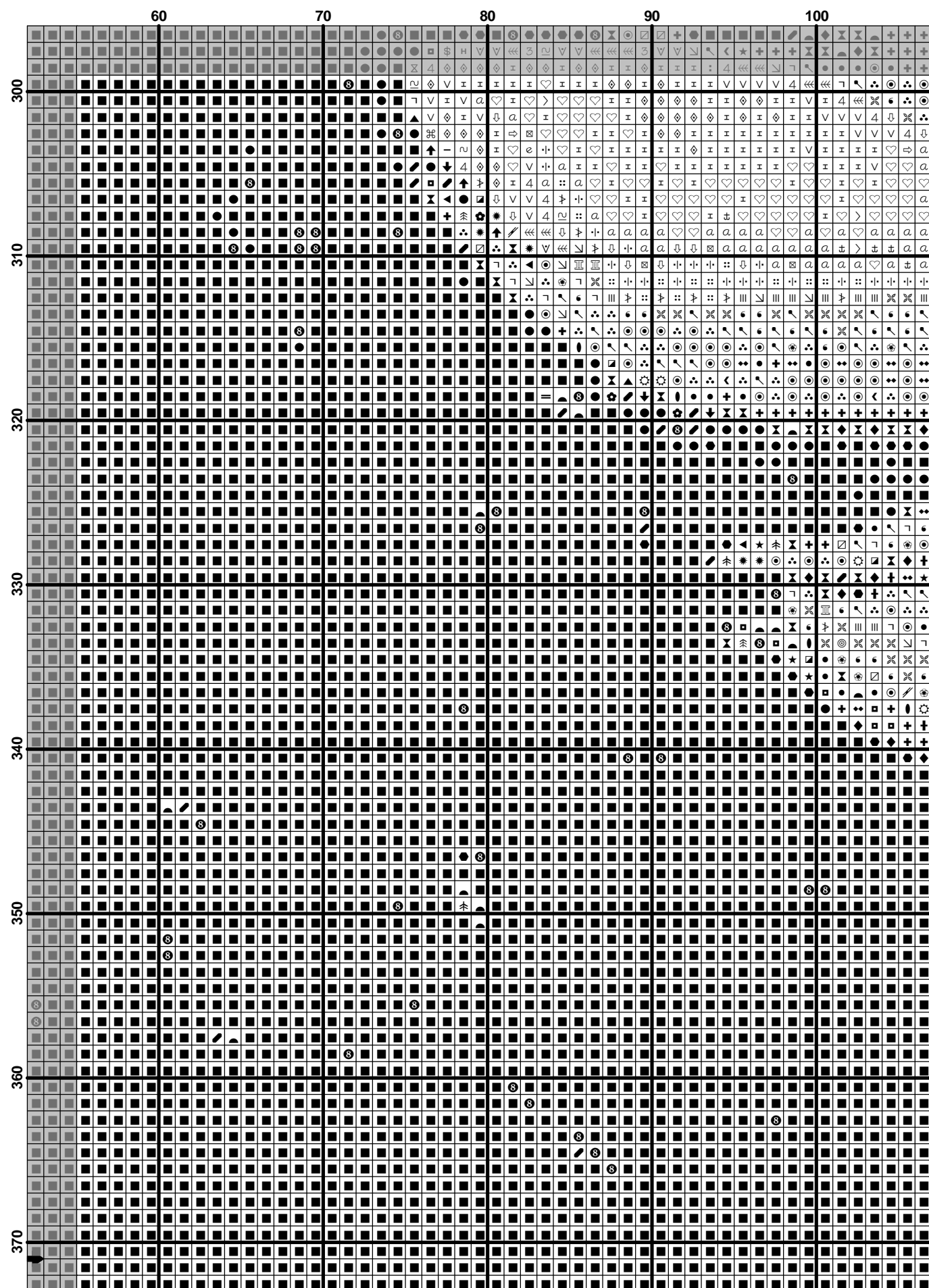




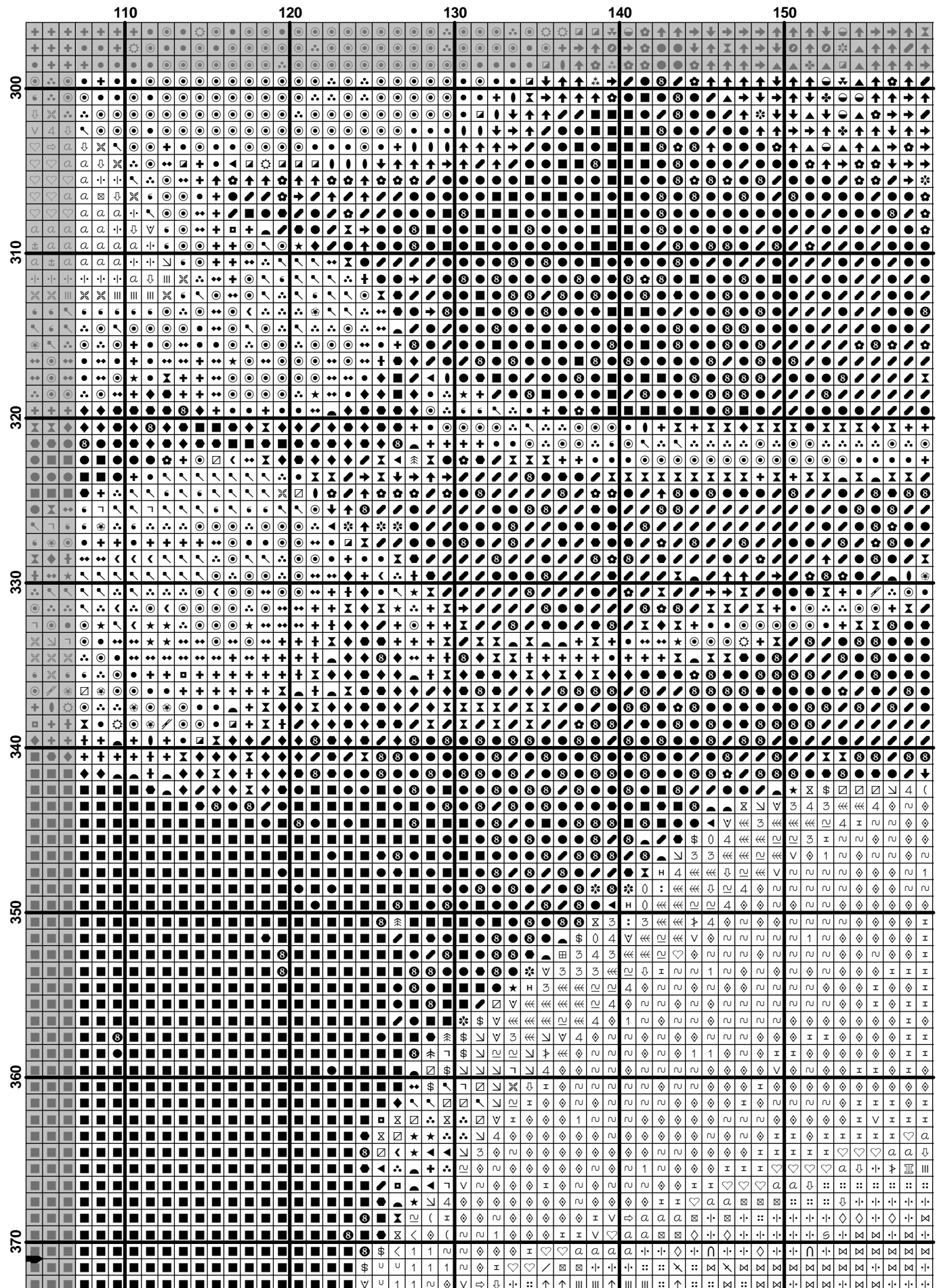


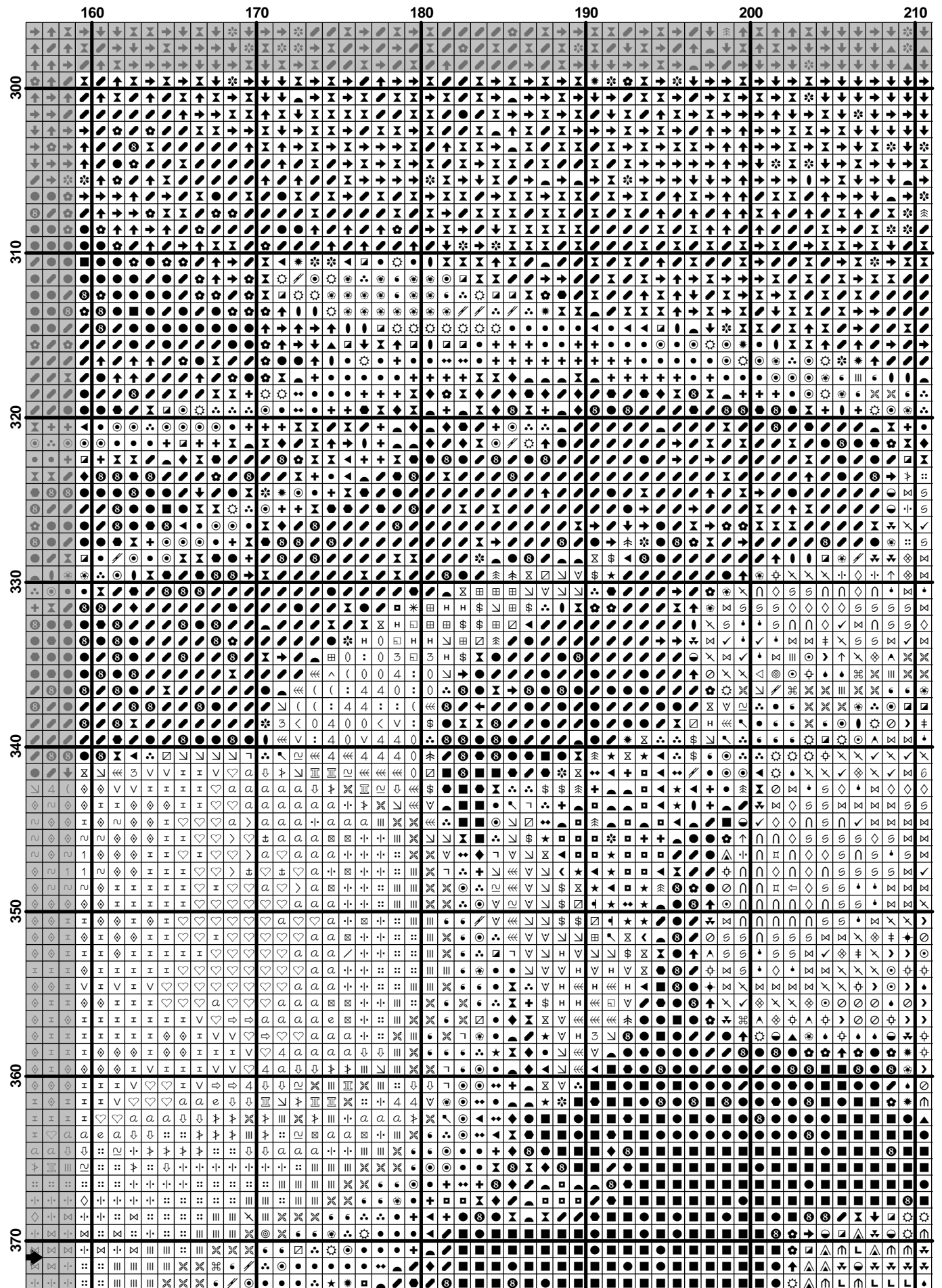


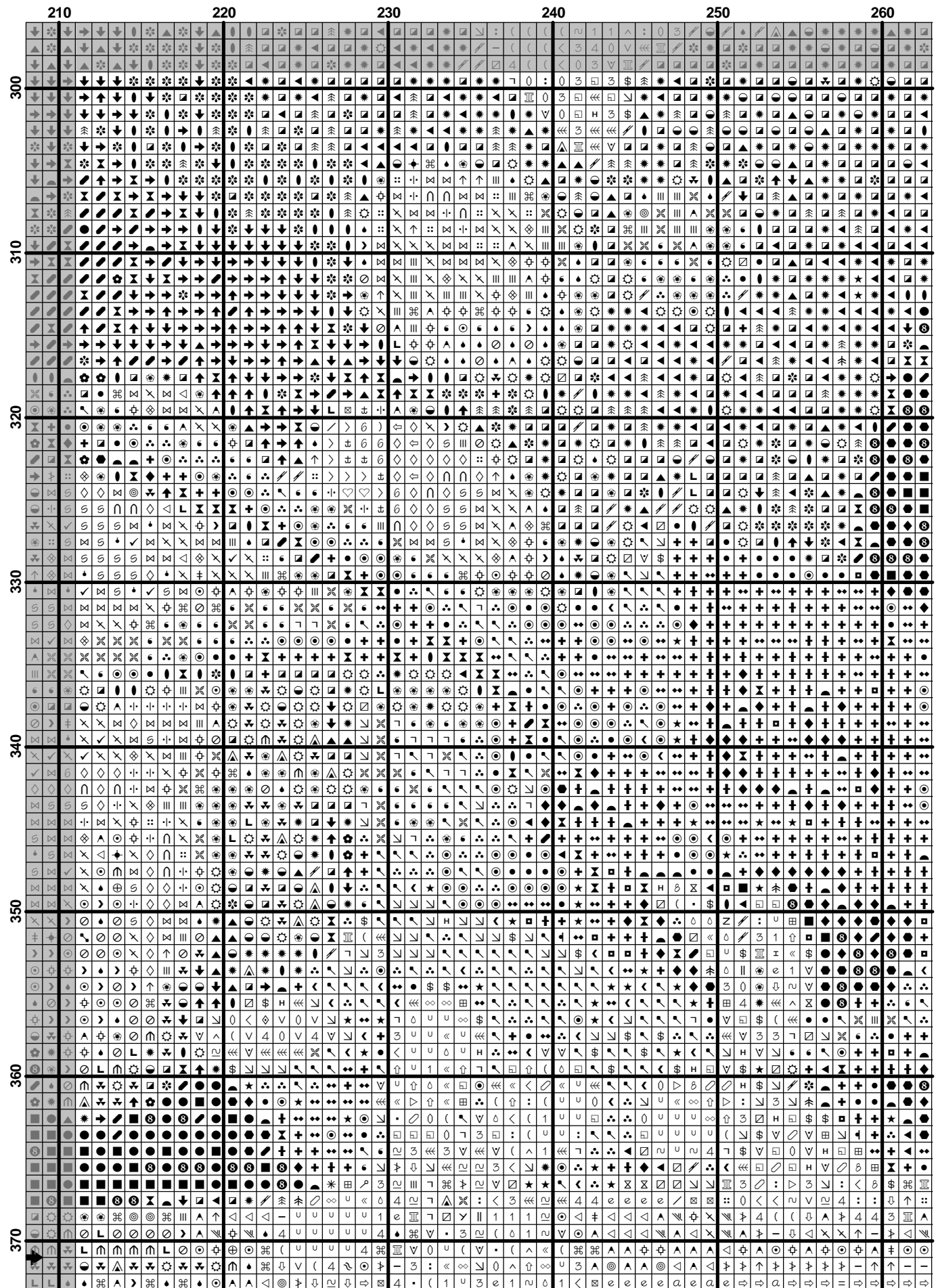






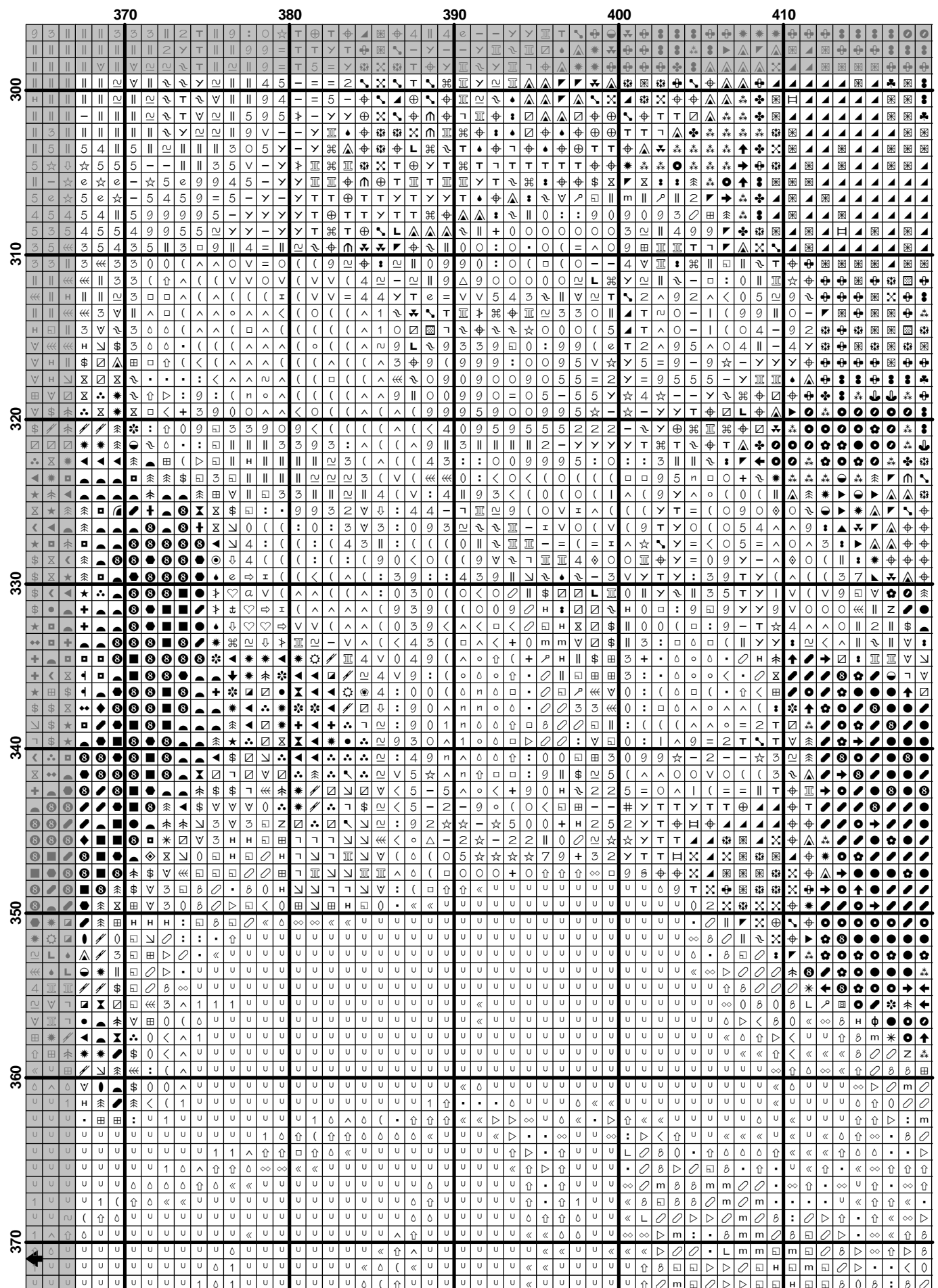


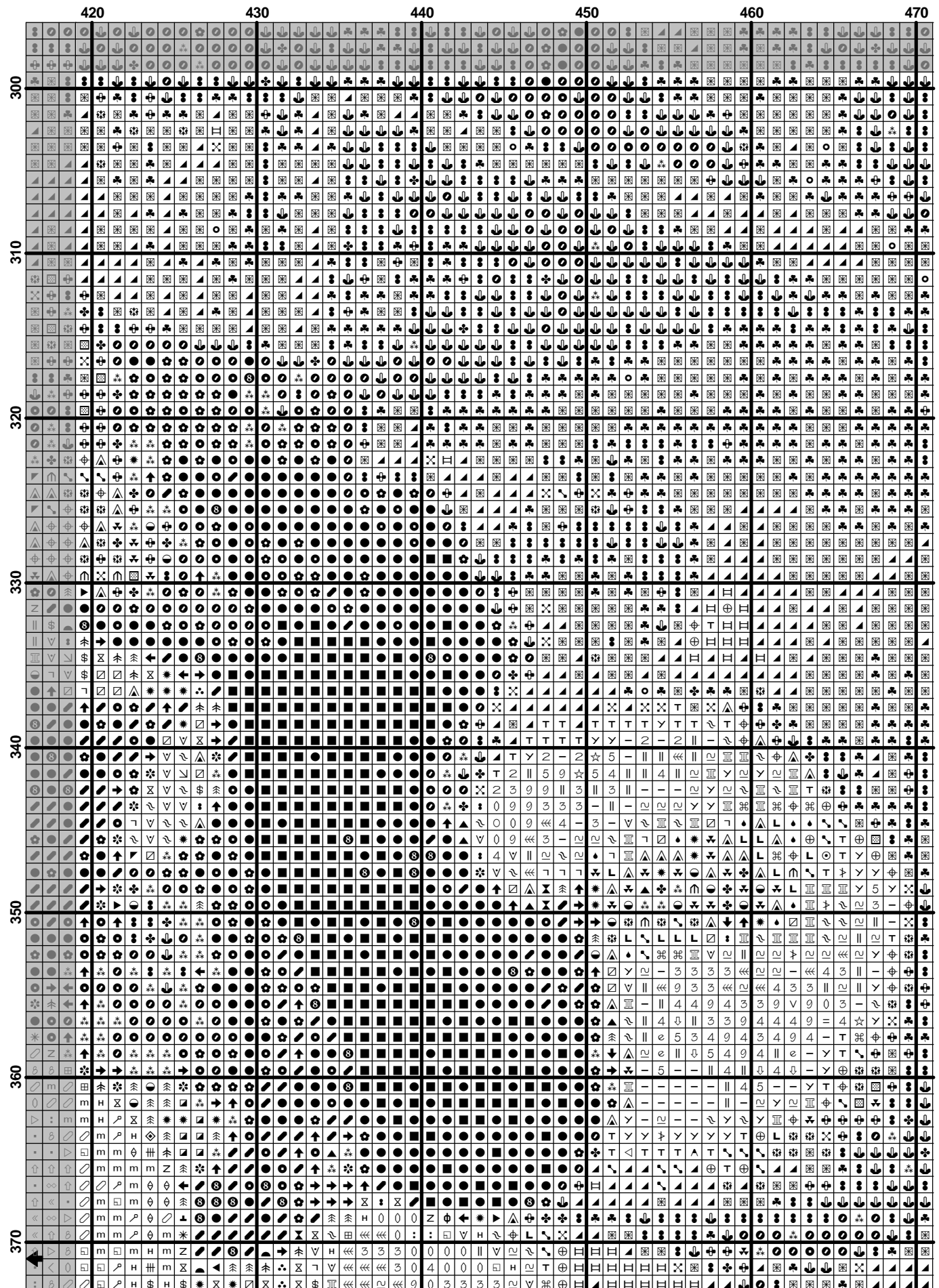


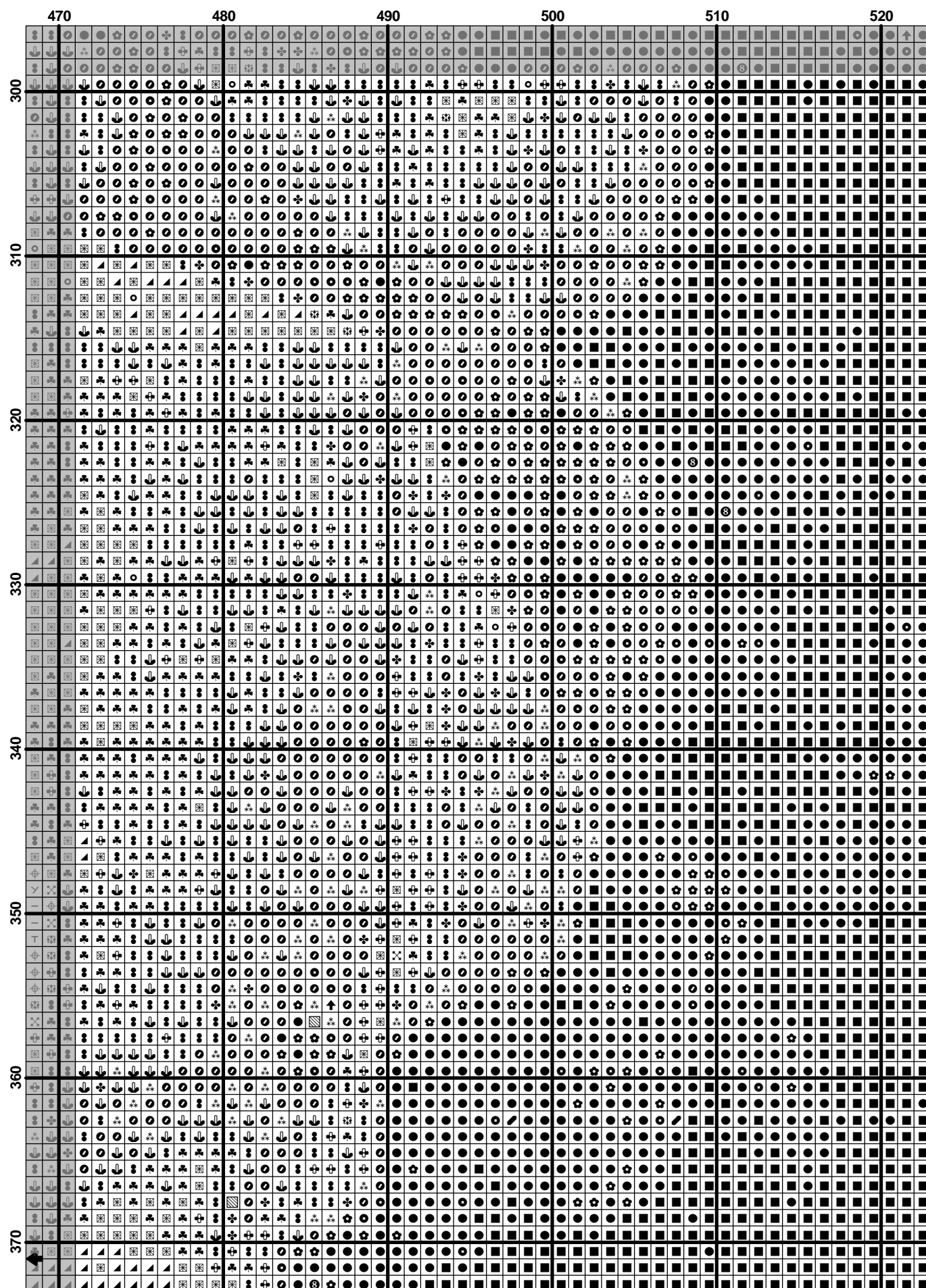


$$(66) \quad \text{[...]} \quad (67)$$

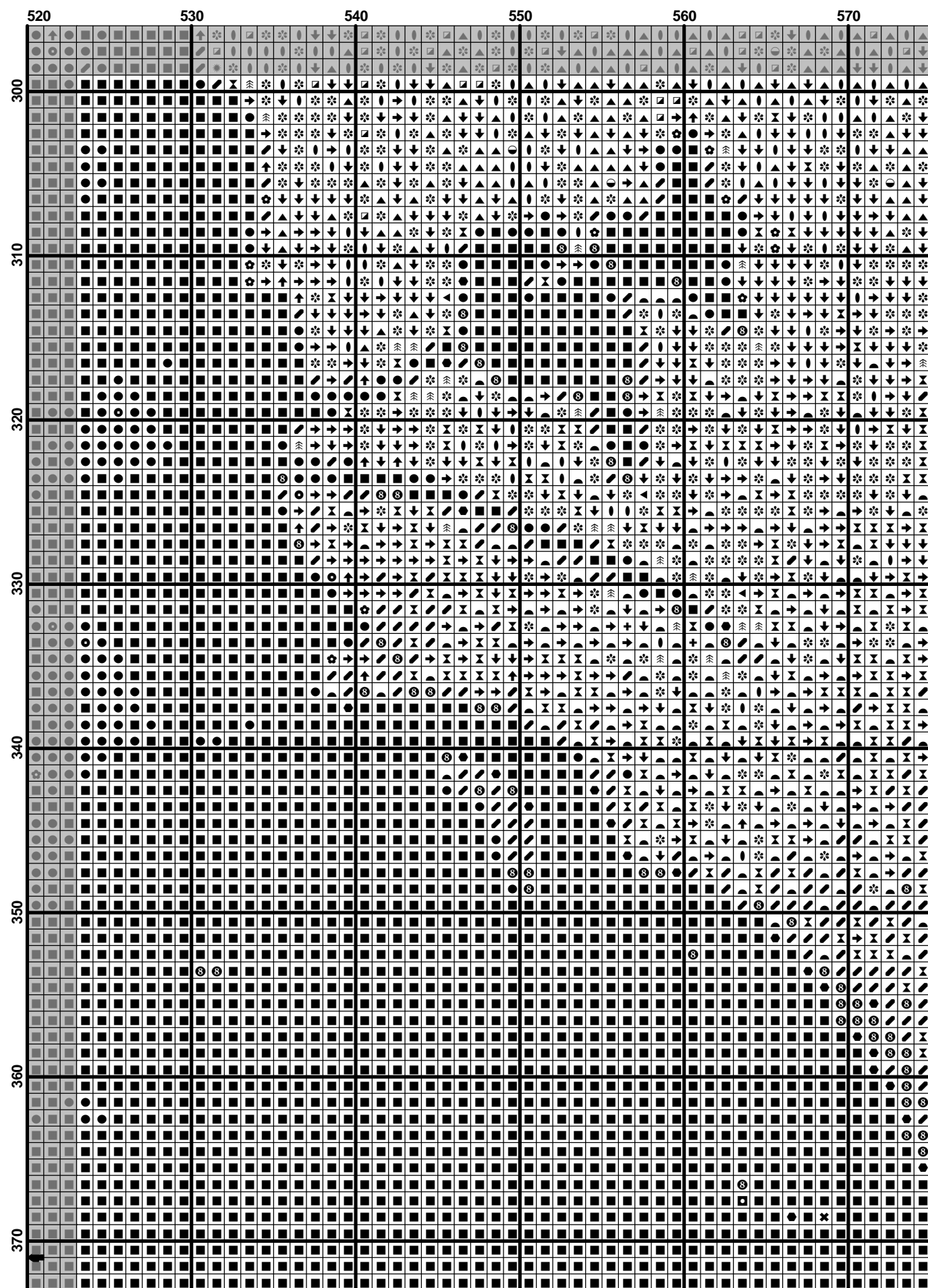
	320	330	340	350	360
300	...	...	...	...	...
310	...	...	...	...	...
320	...	...	...	...	...
330	...	...	...	...	...
340	...	...	...	...	...
350	...	...	...	...	...
360	...	...	...	...	...
370	...	...	...	...	...

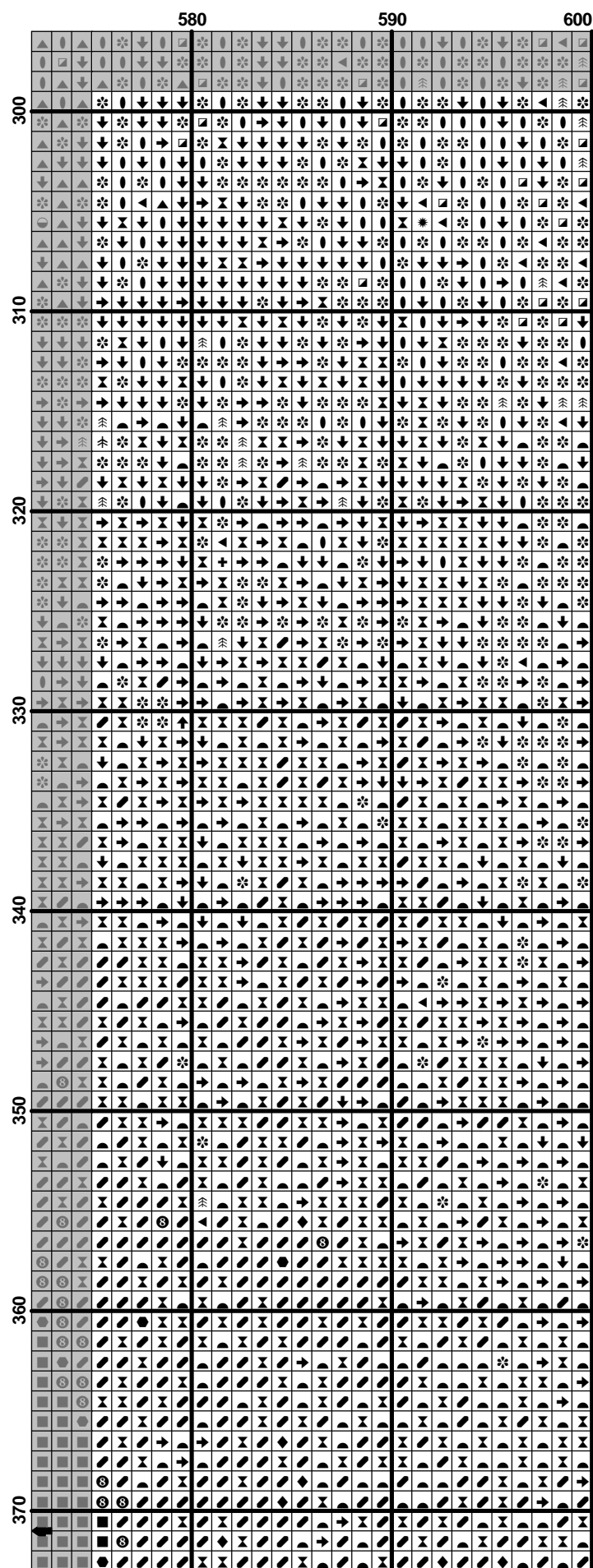


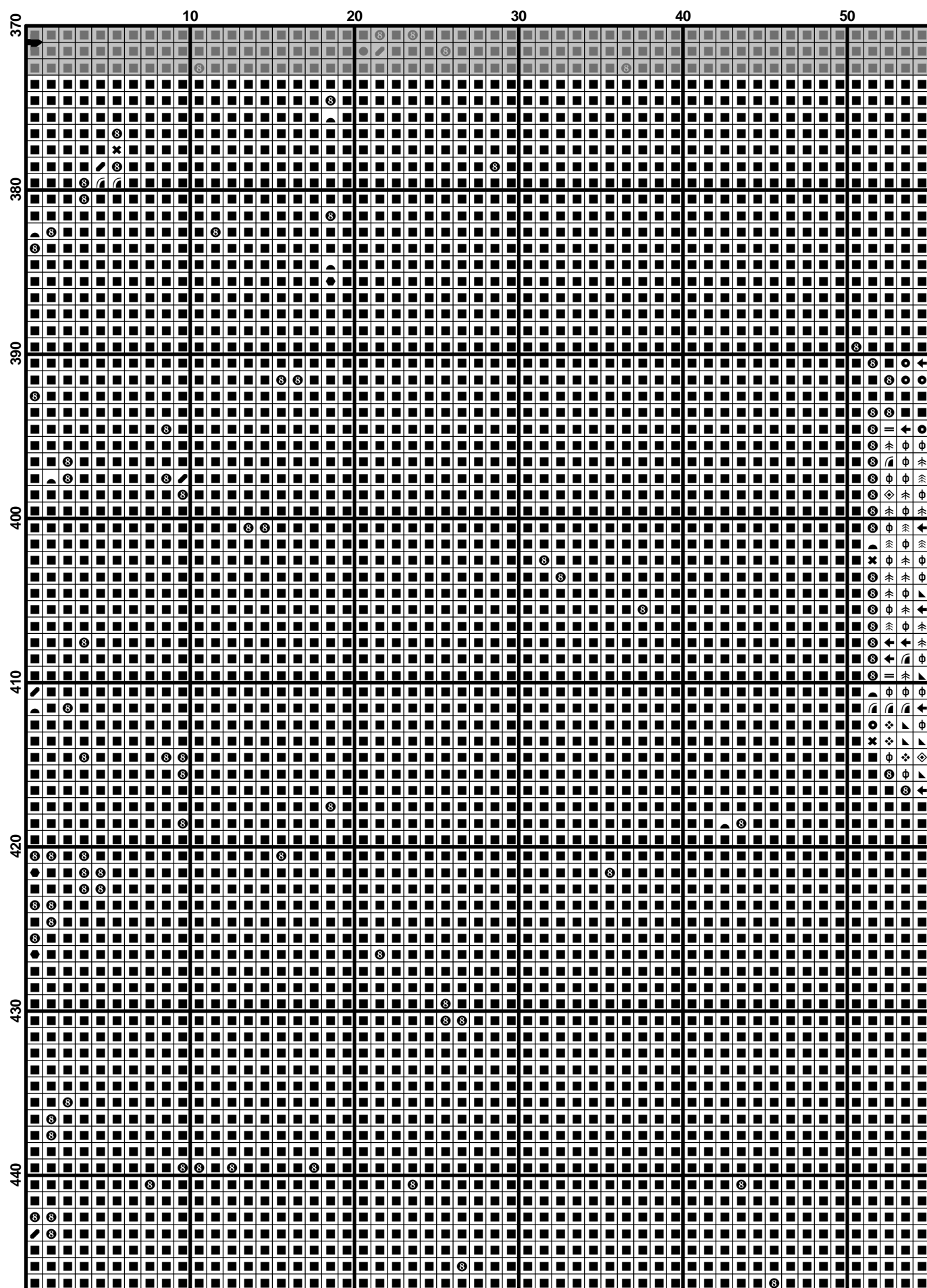


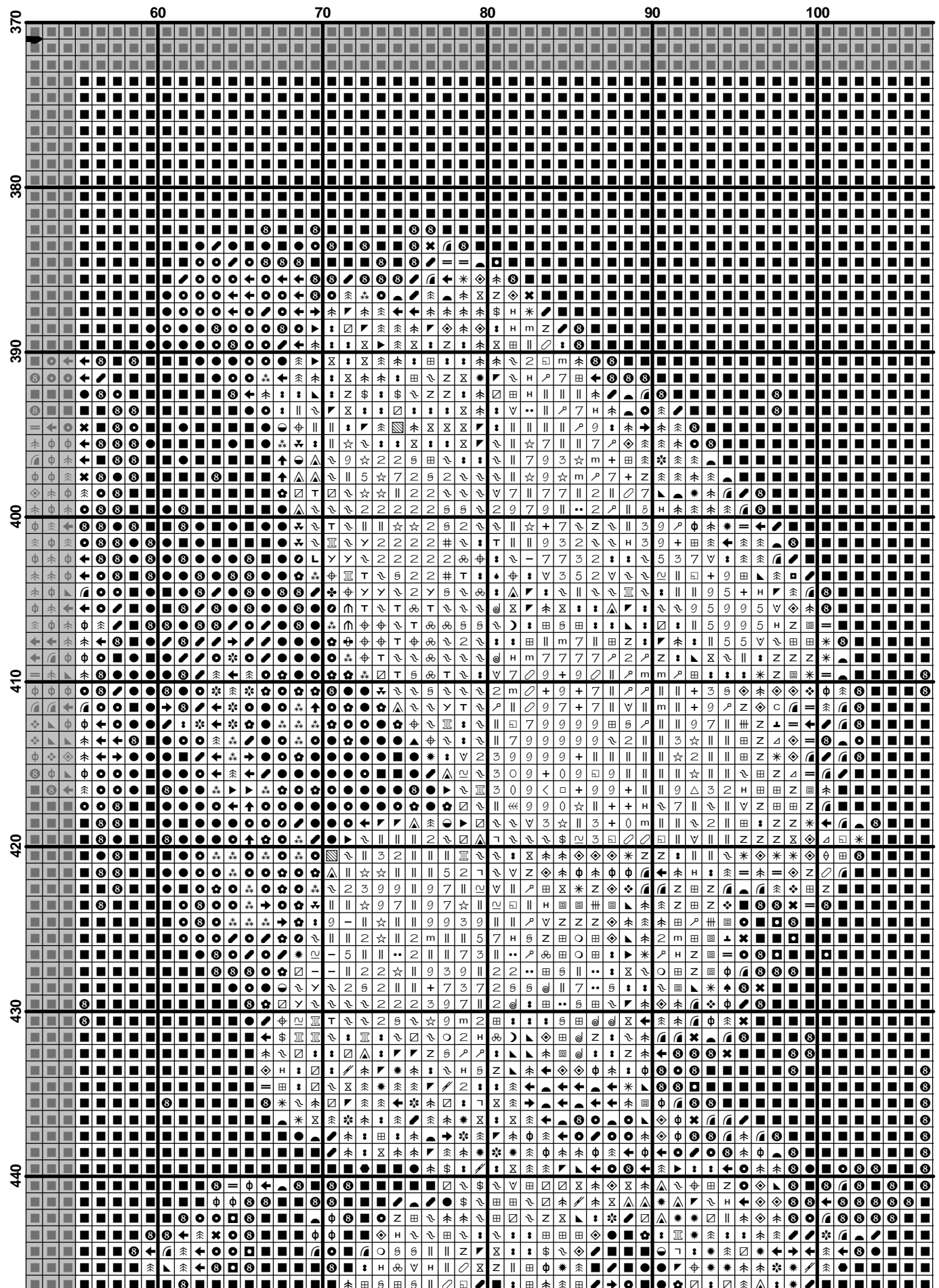




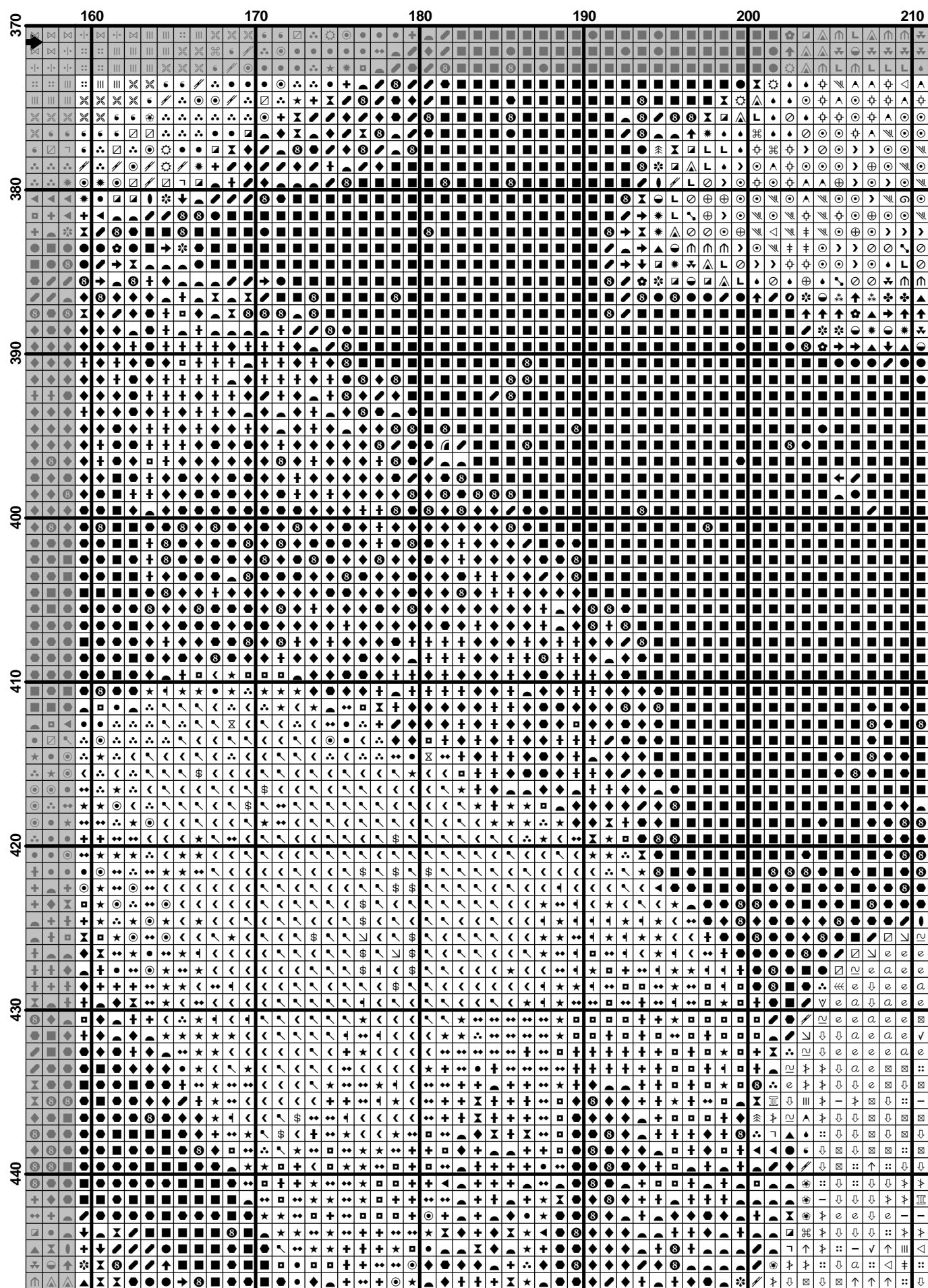




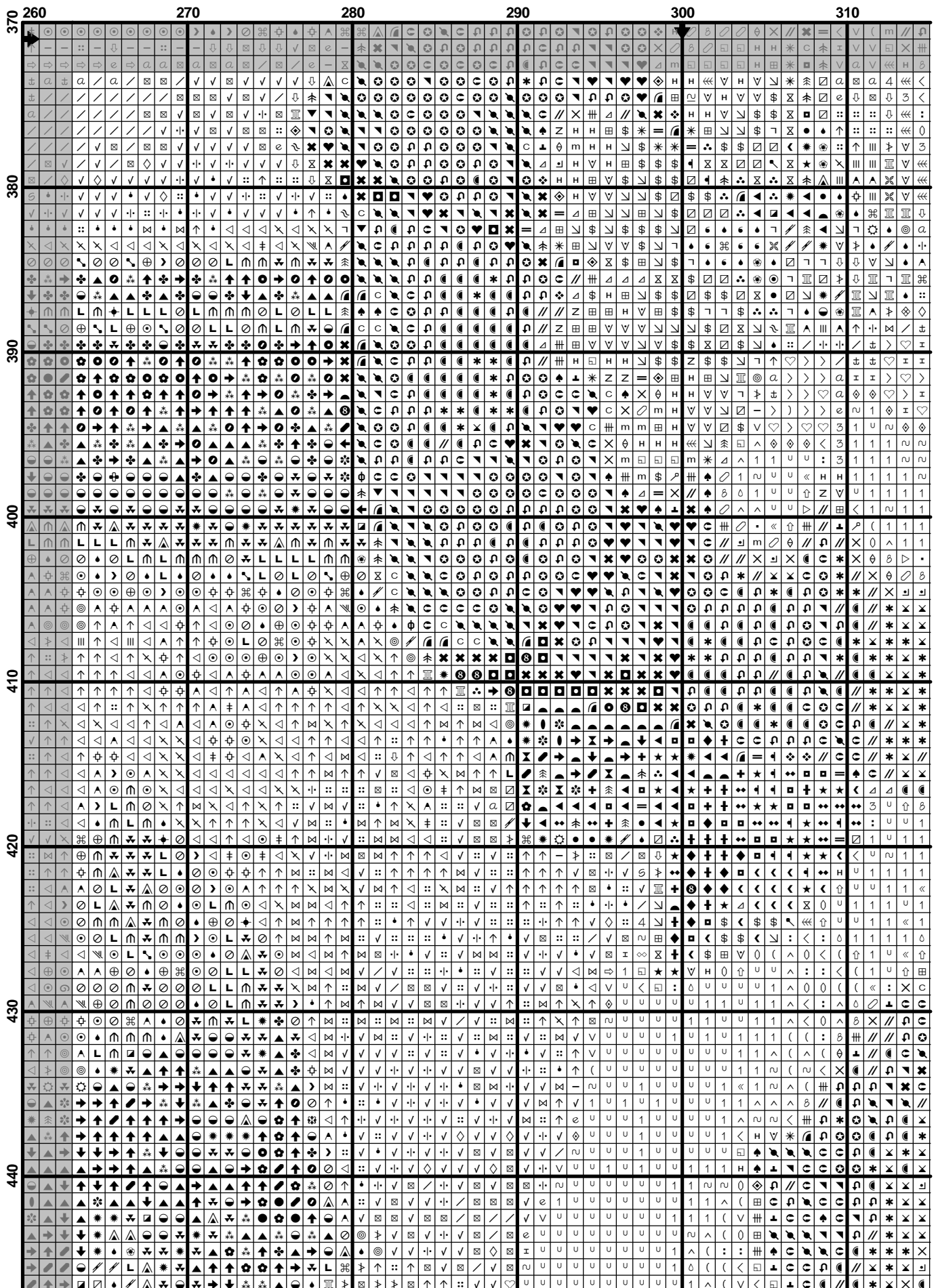








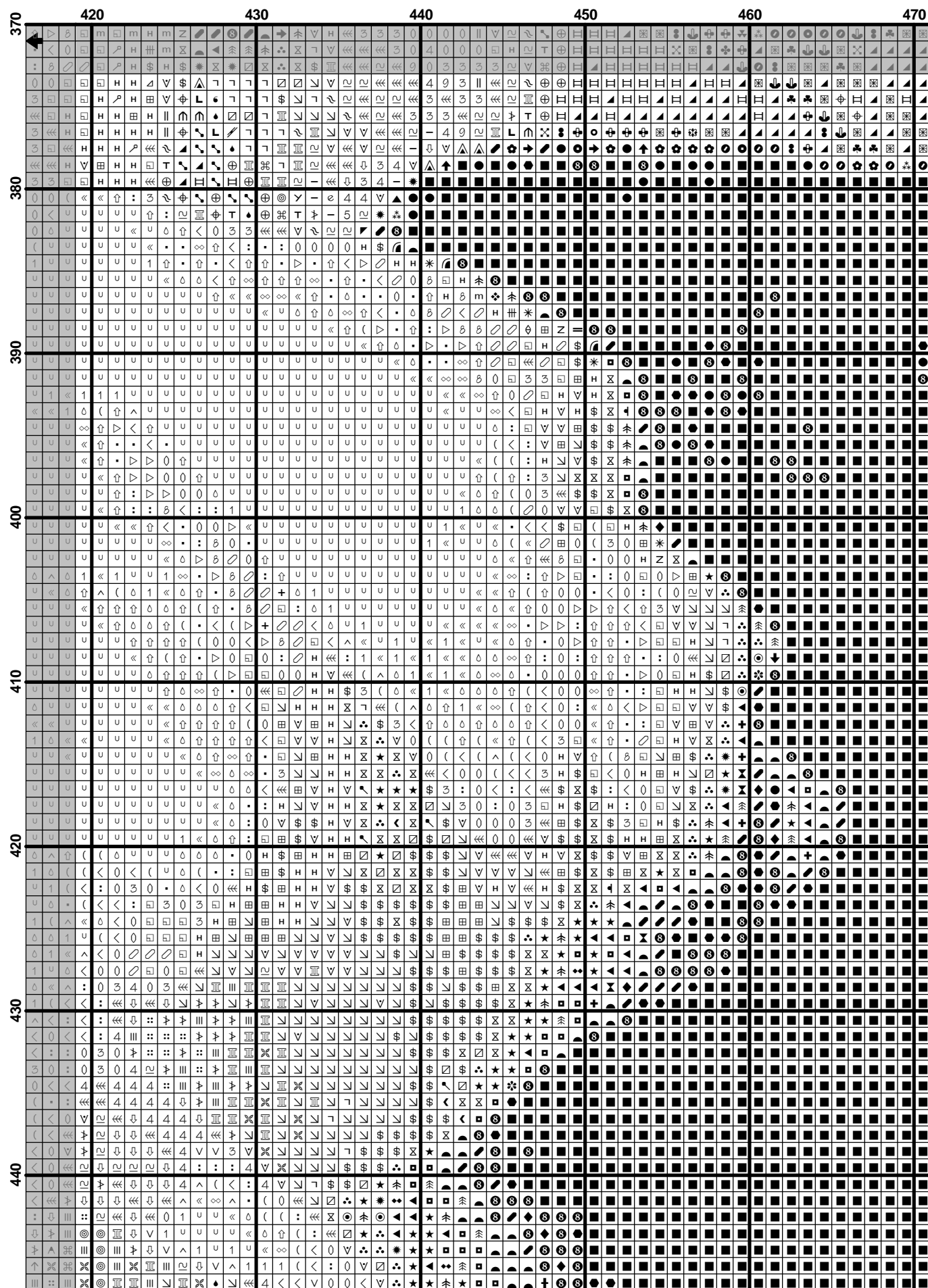
(78)

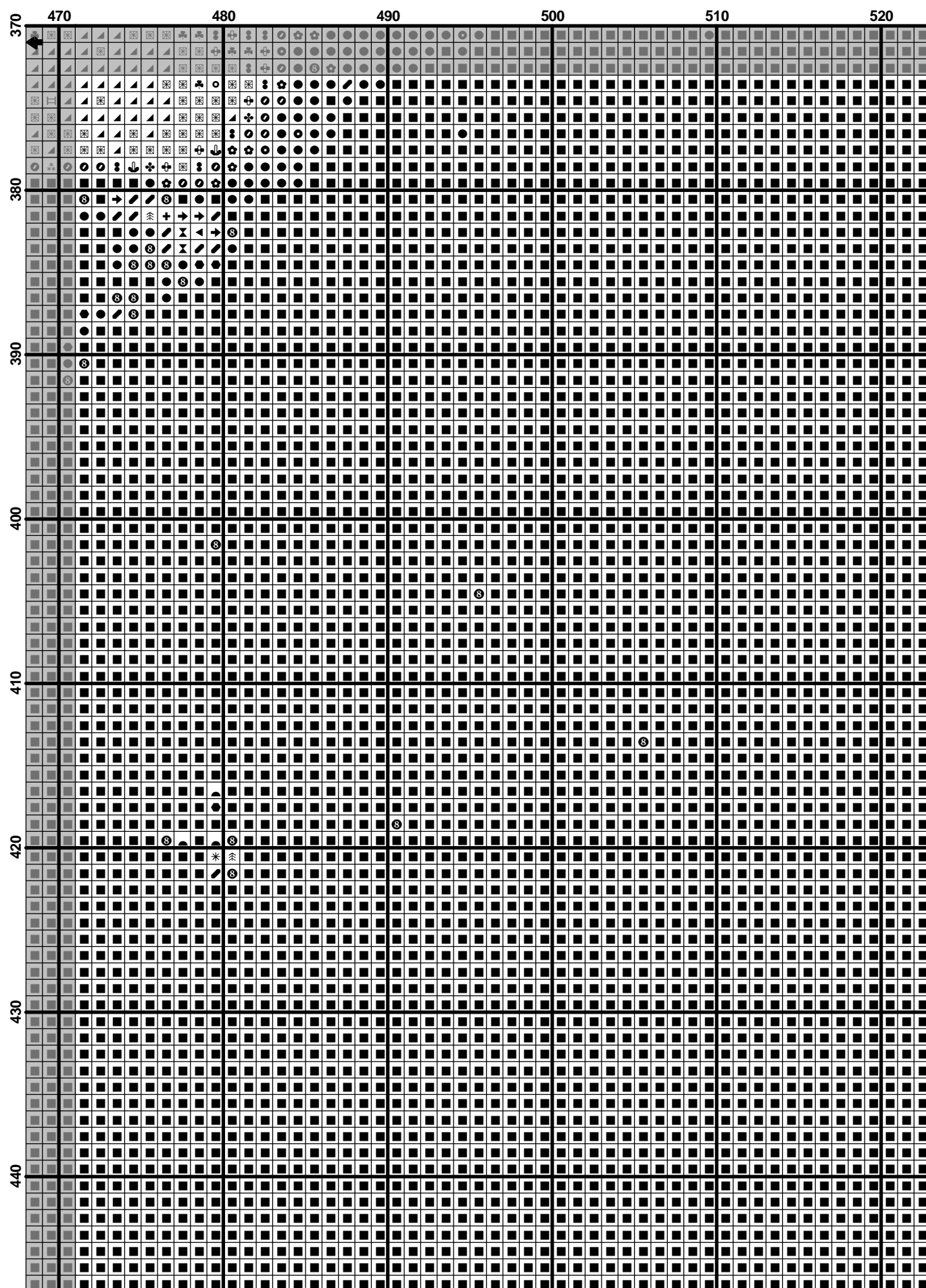


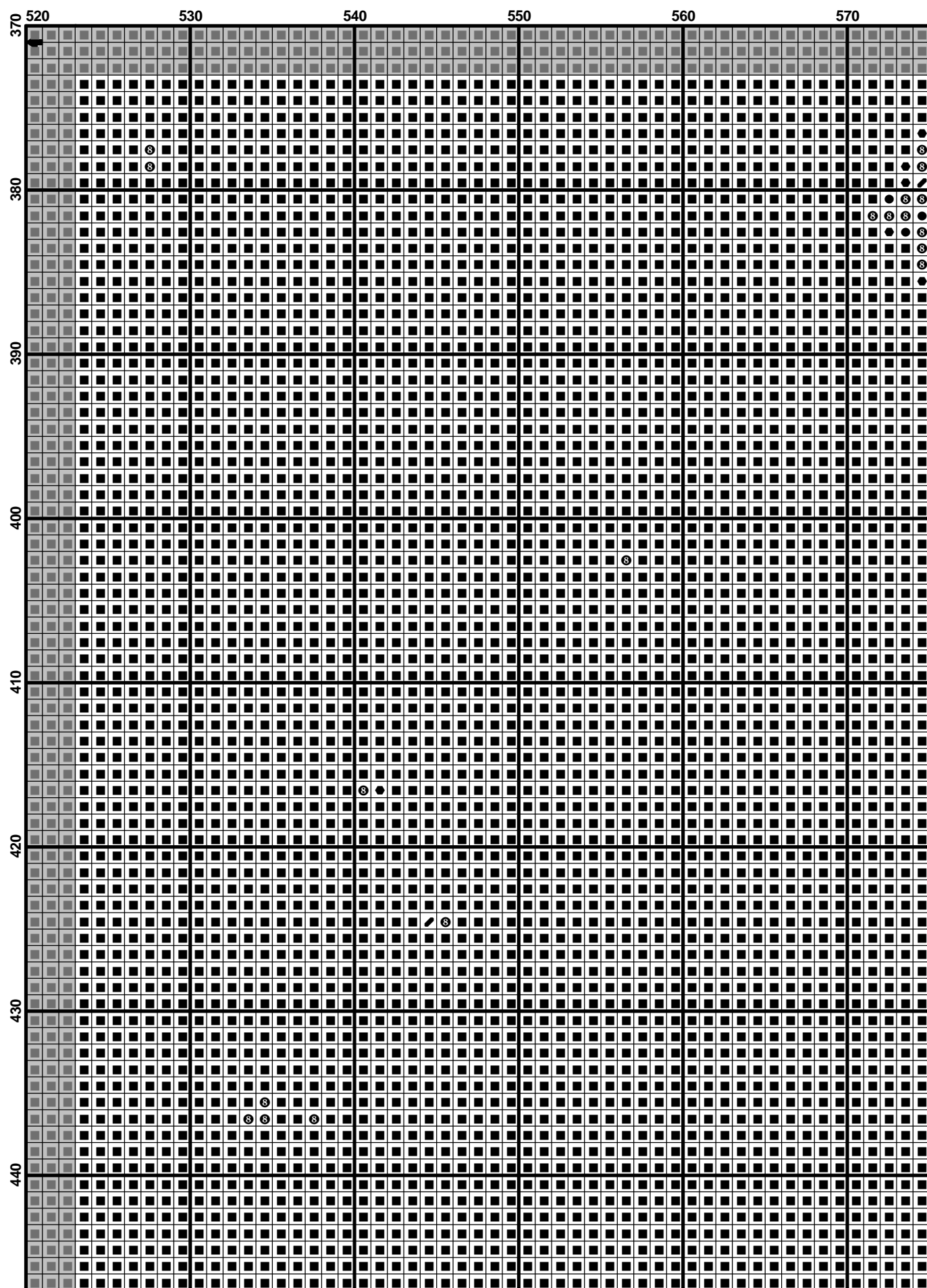


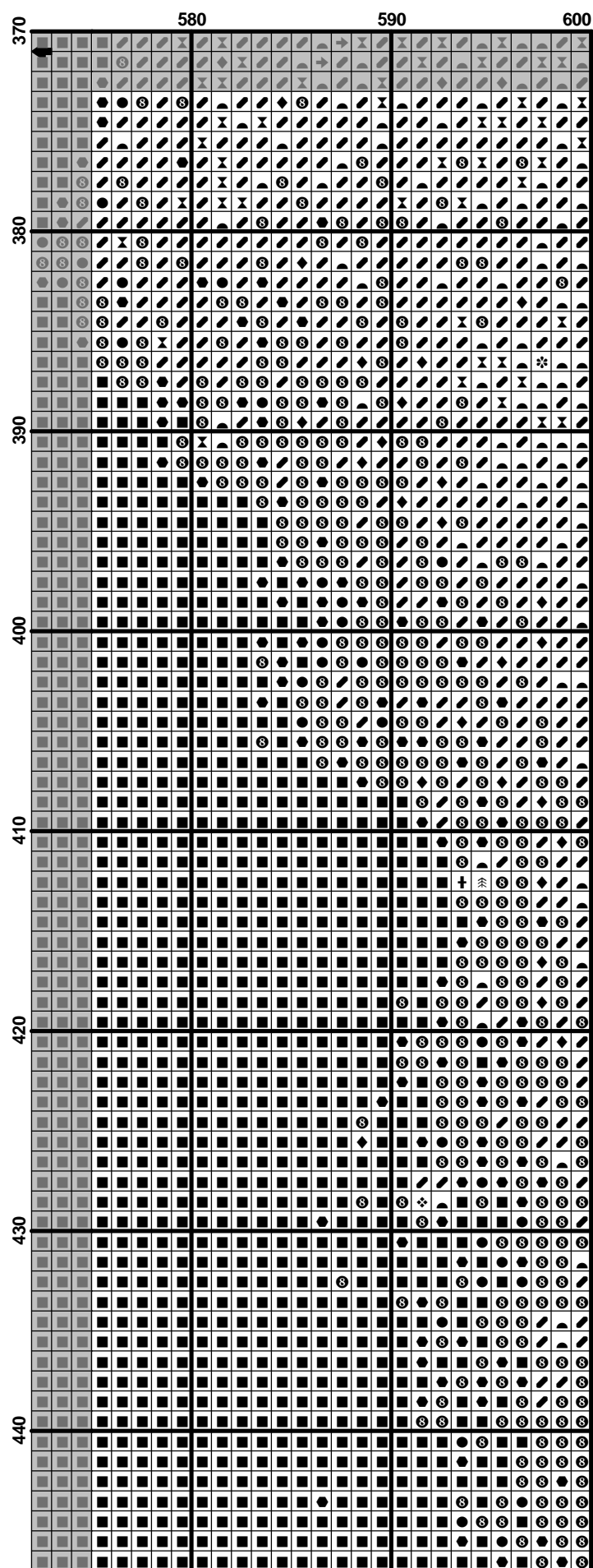
	320	330	340	350	360
370	←	↖	↗	↘	↙
380	↖	↗	↘	↙	↘
390	↗	↘	↙	↘	↙
400	↘	↙	↘	↙	↘
410	↙	↘	↙	↘	↙
420	↘	↙	↘	↙	↘
430	↙	↘	↙	↘	↙
440	↘	↙	↘	↙	↘

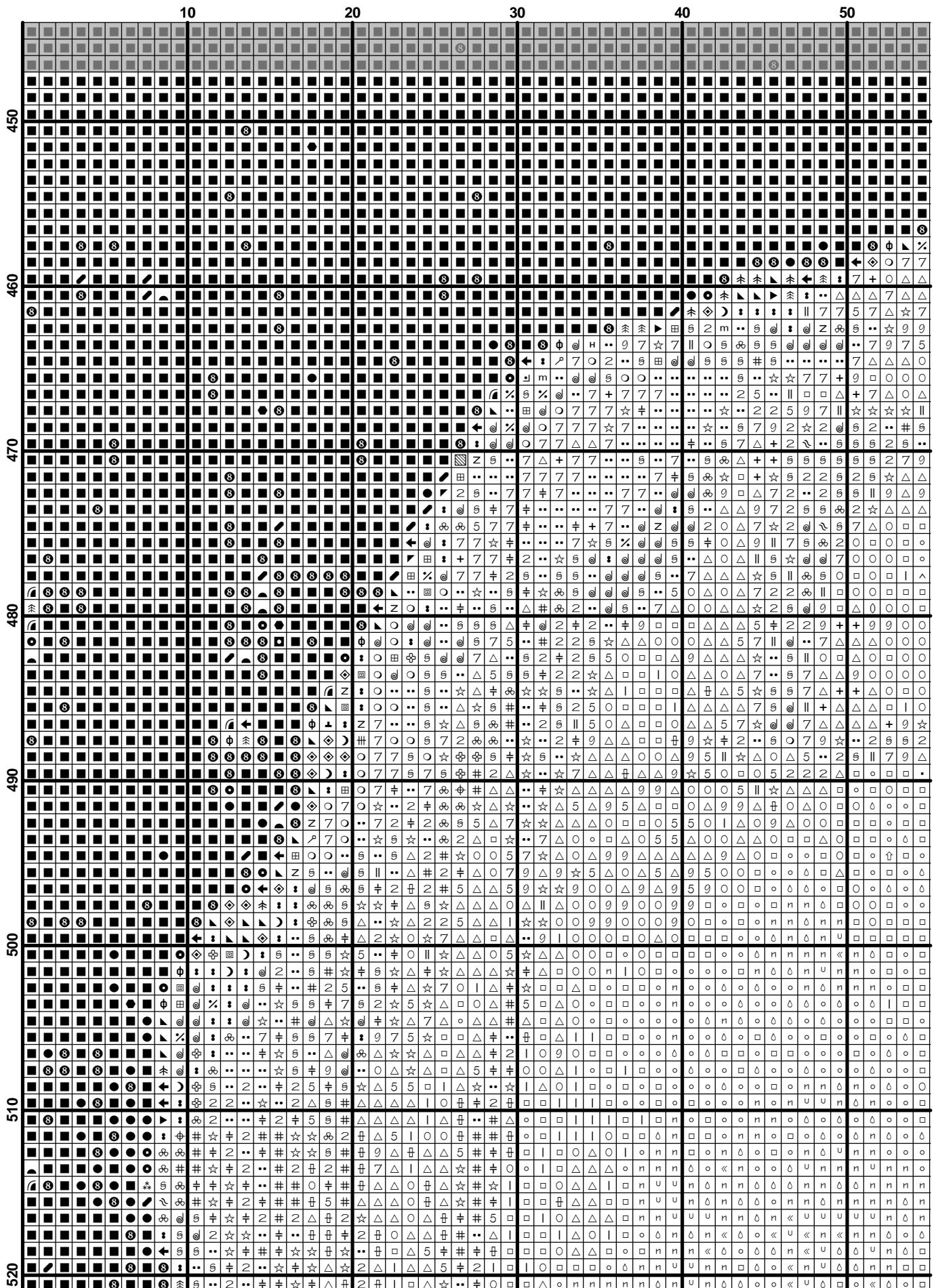
(81)







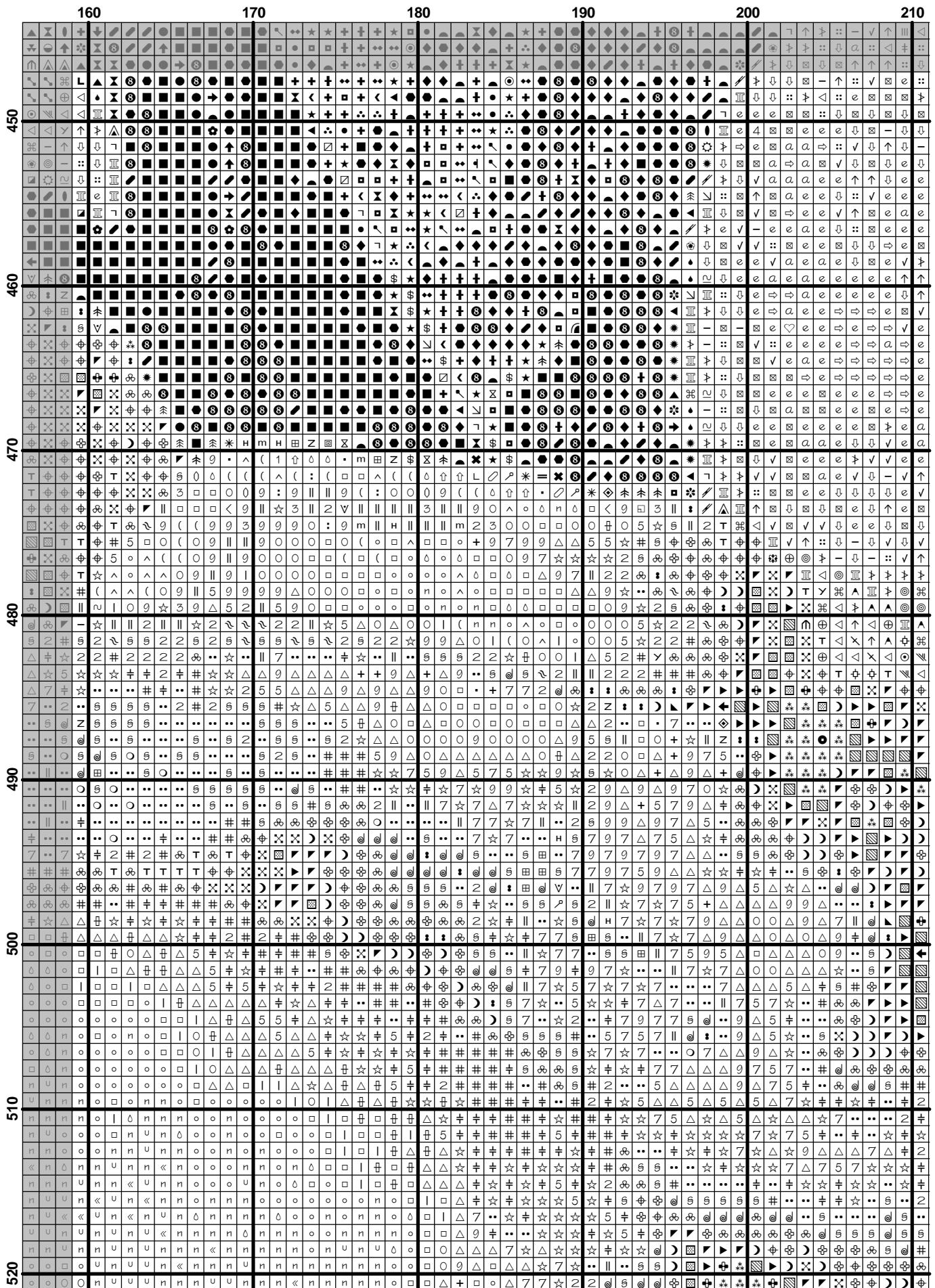


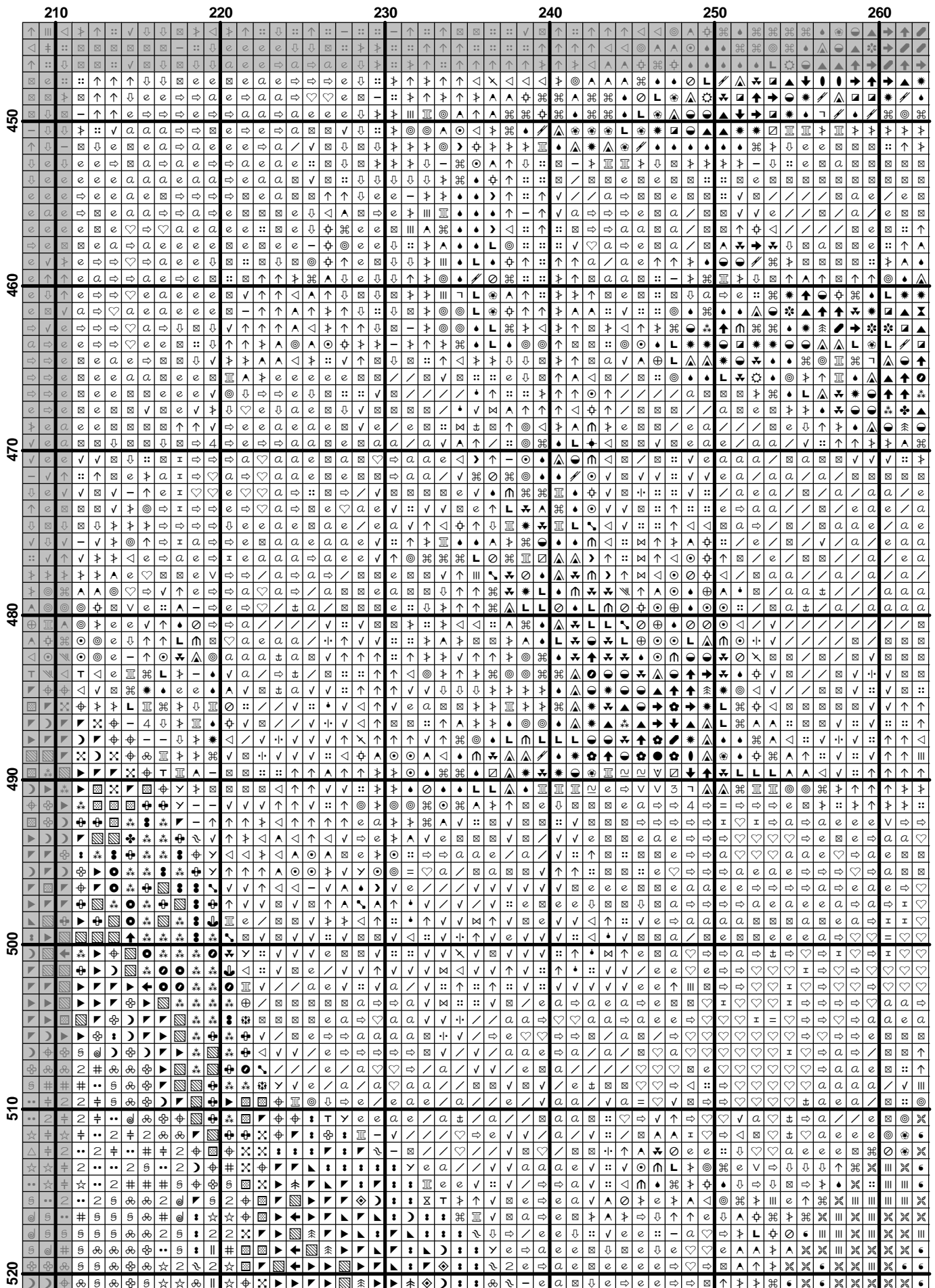


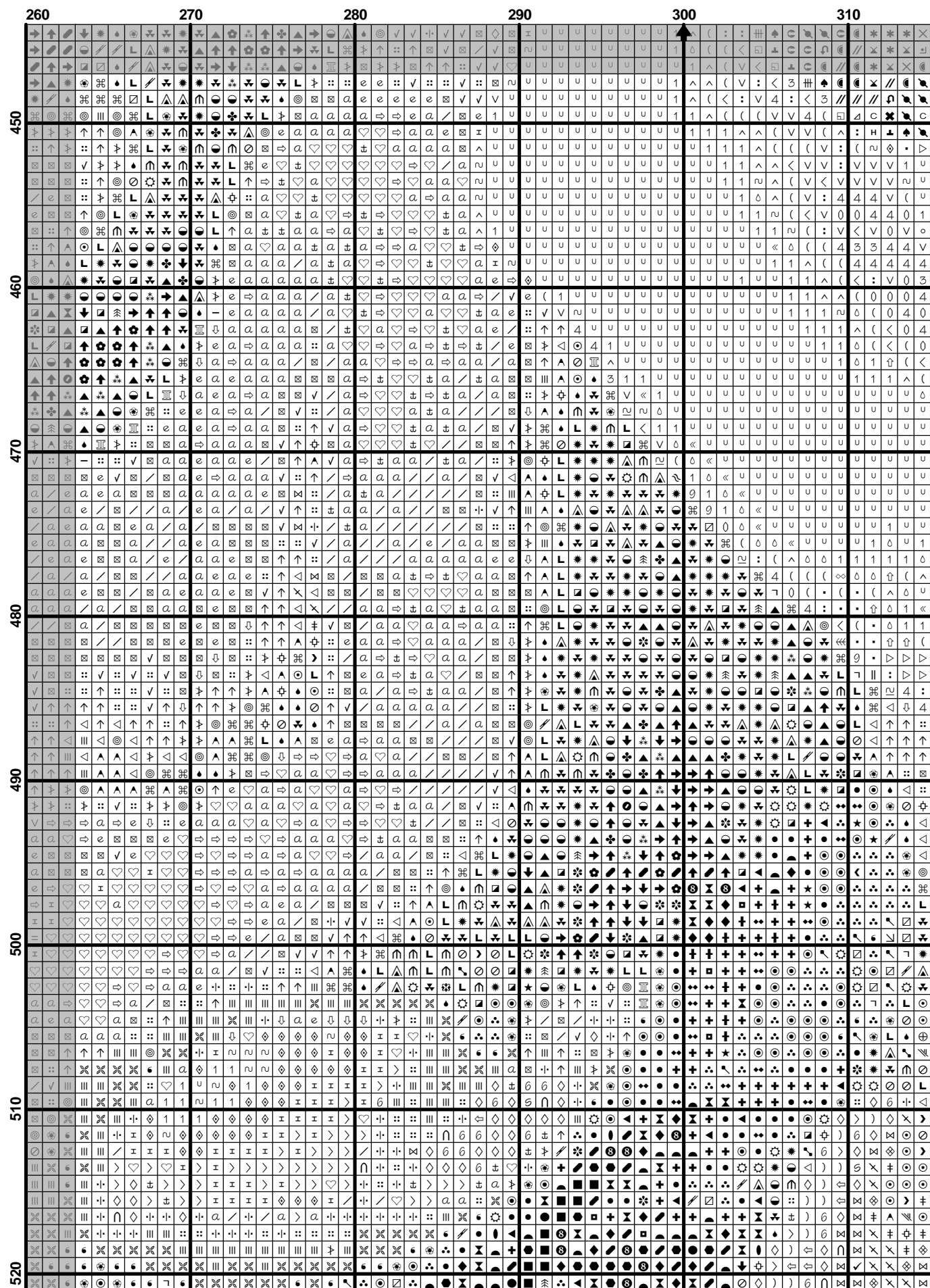
	60	70	80	90	100
450					
460					
470					
480					
490					
500					
510					
520					

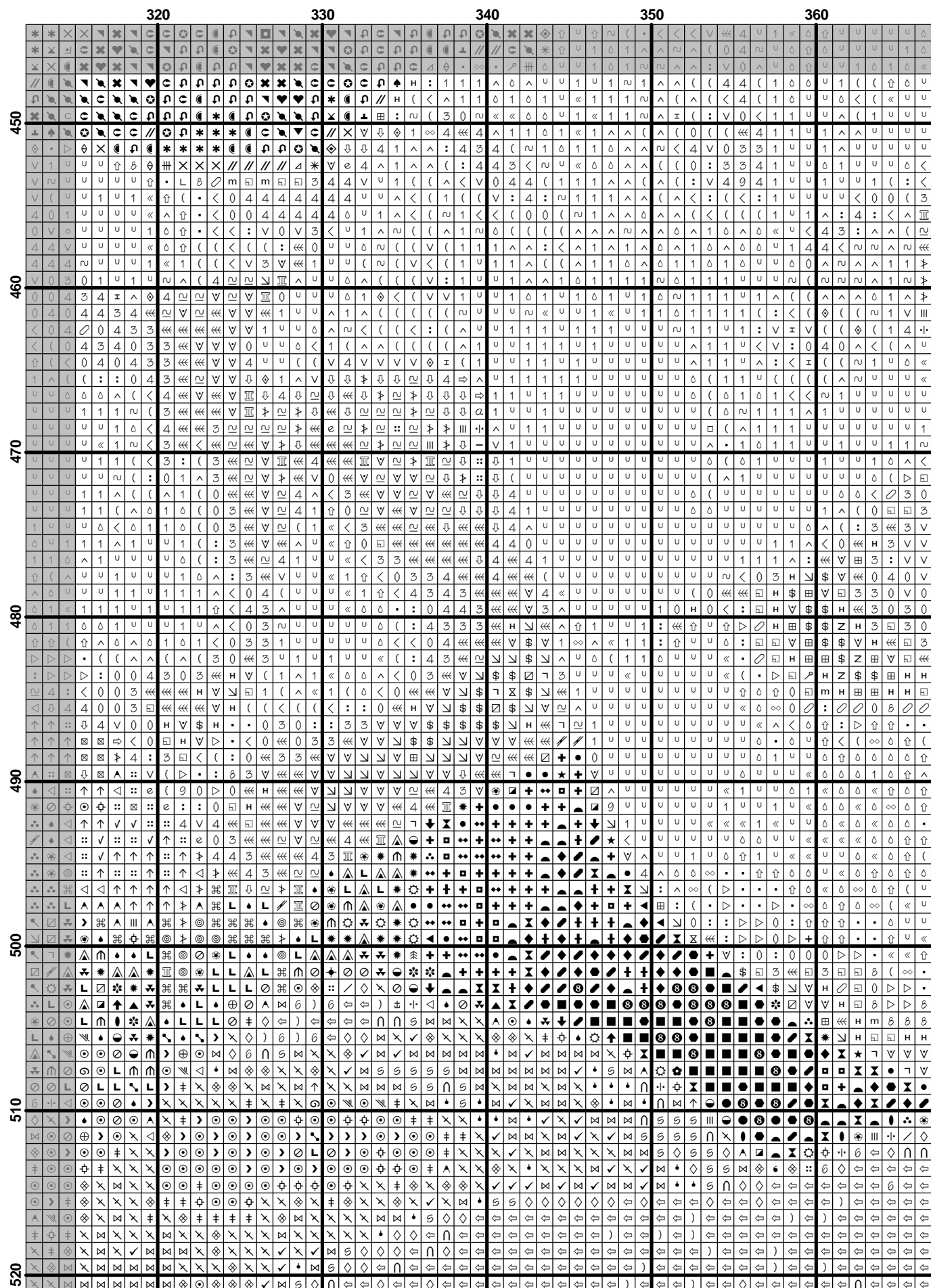


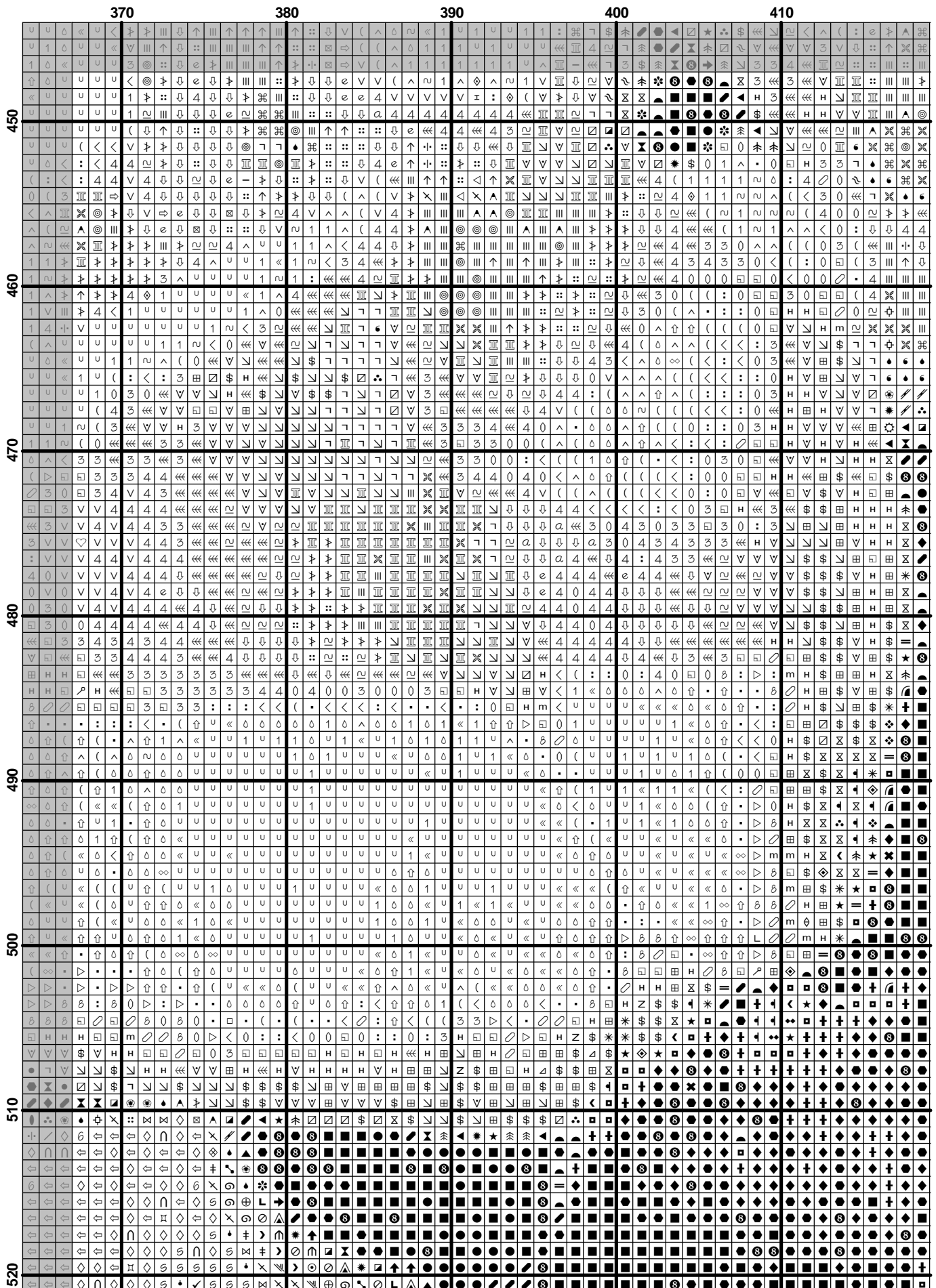
	110	120	130	140	150
450	...	...	...	...	...
460	...	...	...	...	...
470	...	...	...	...	...
480	...	...	...	...	...
490	...	...	...	...	...
500	...	...	...	...	...
510	...	...	...	...	...
520	...	...	...	...	...

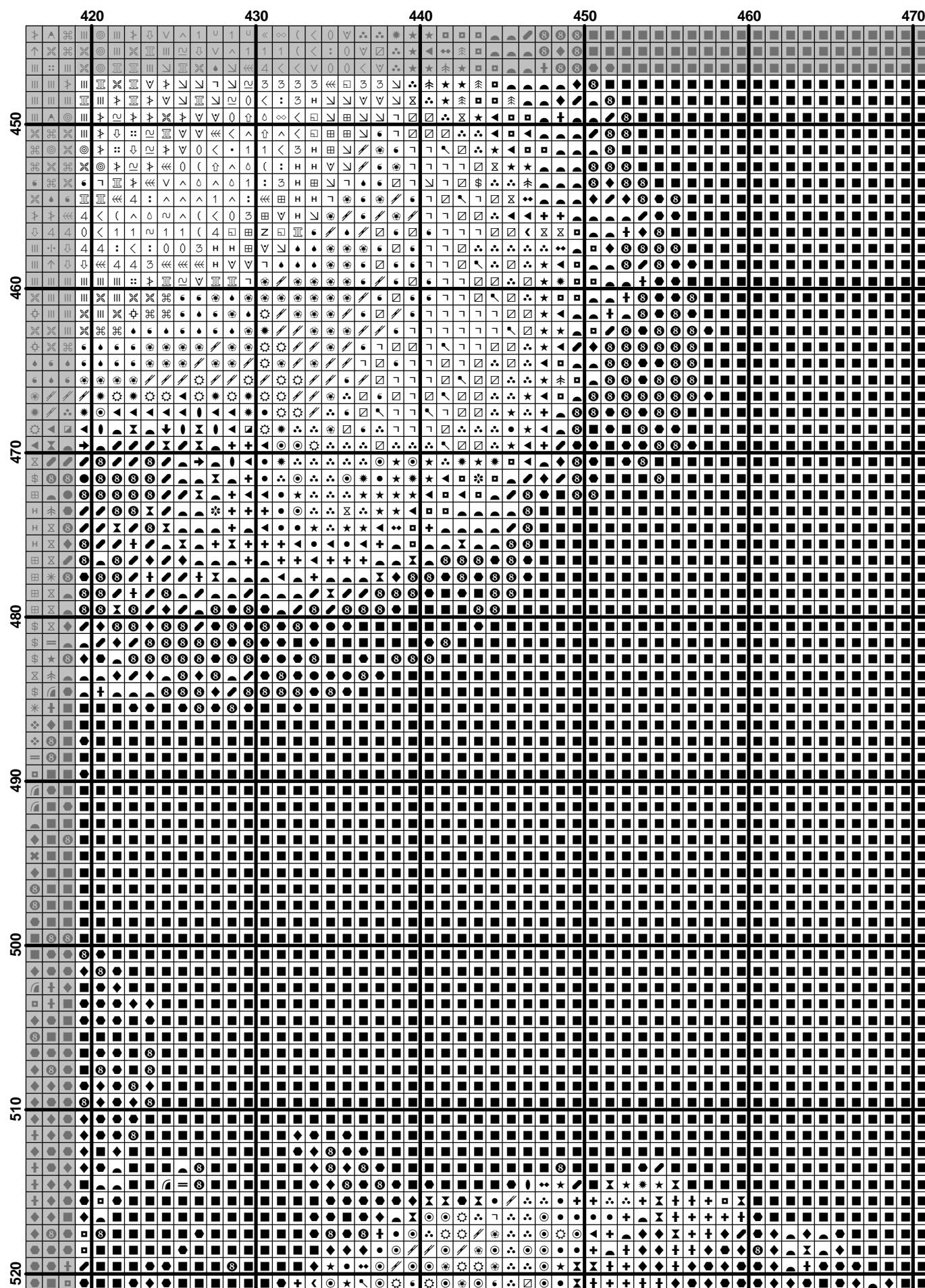


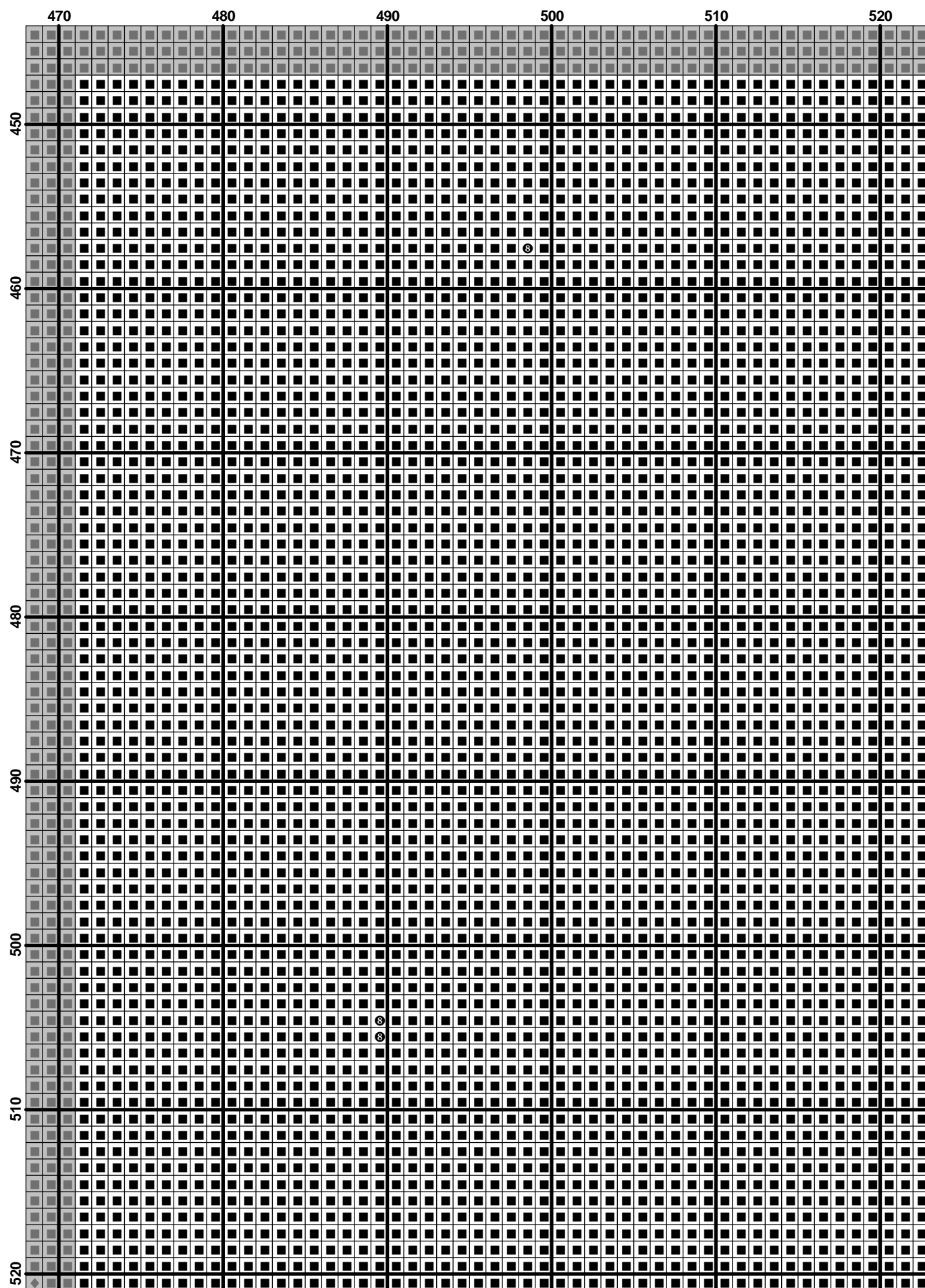




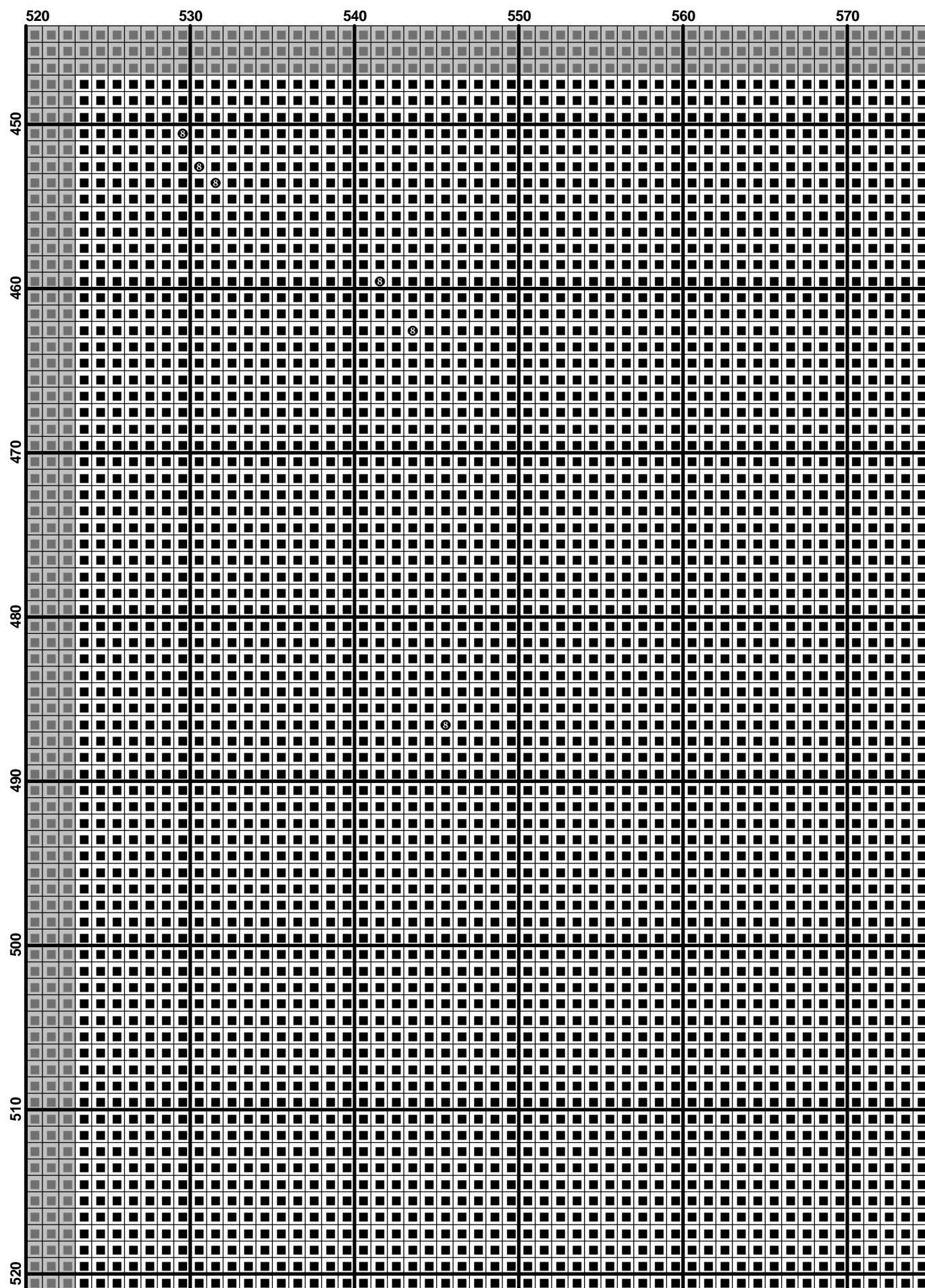


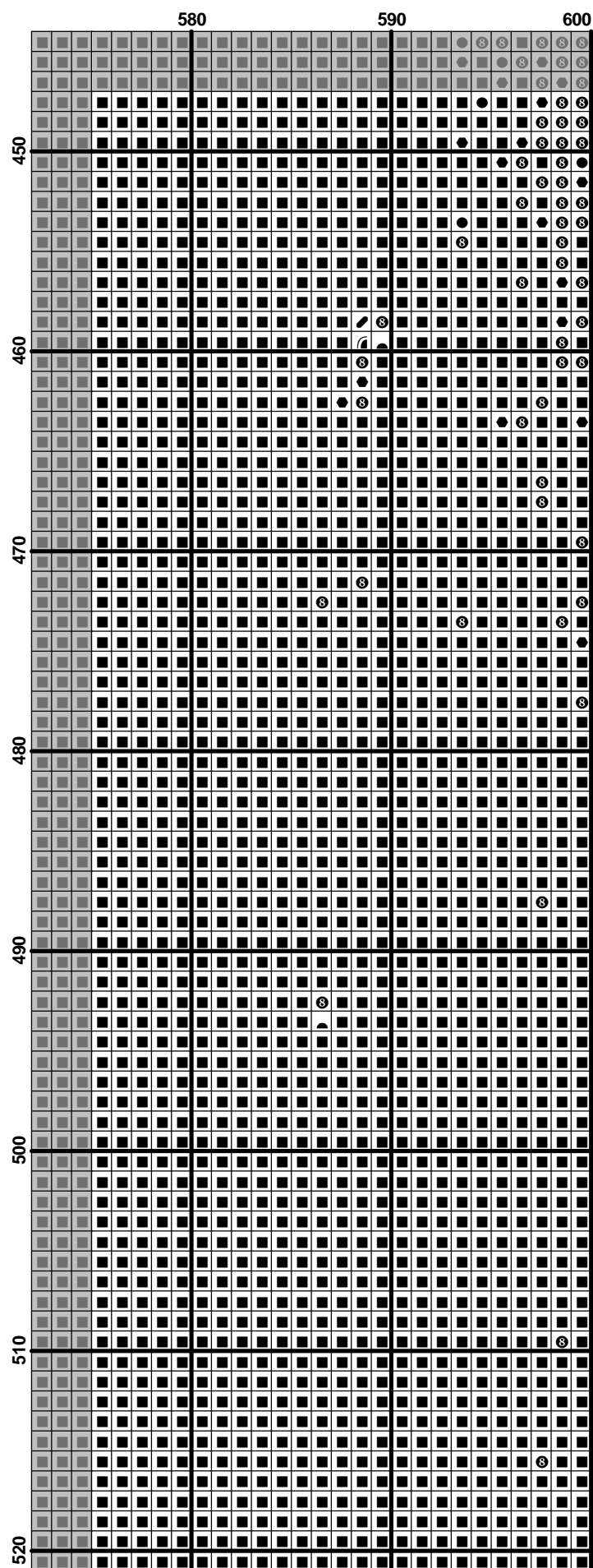


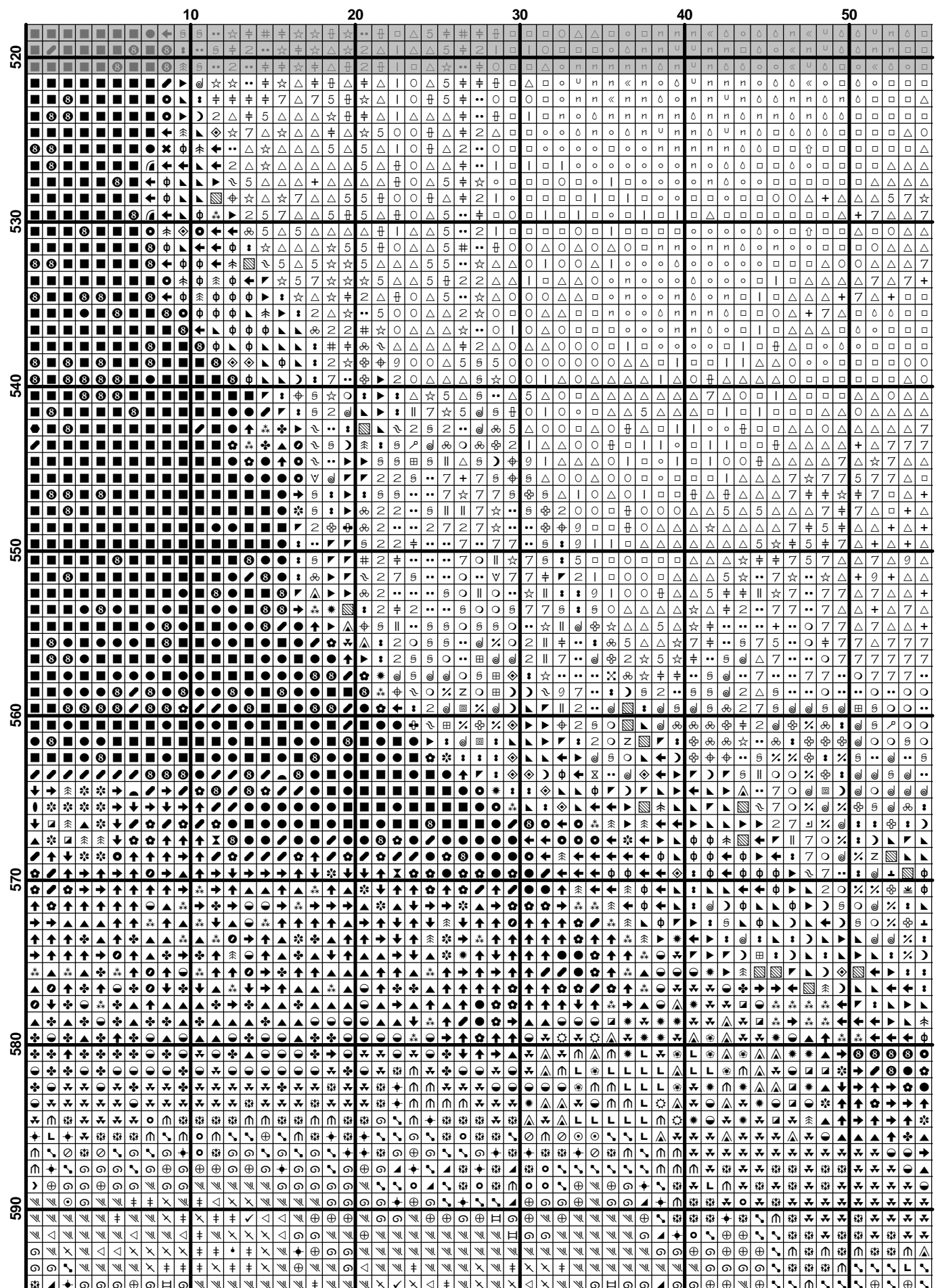






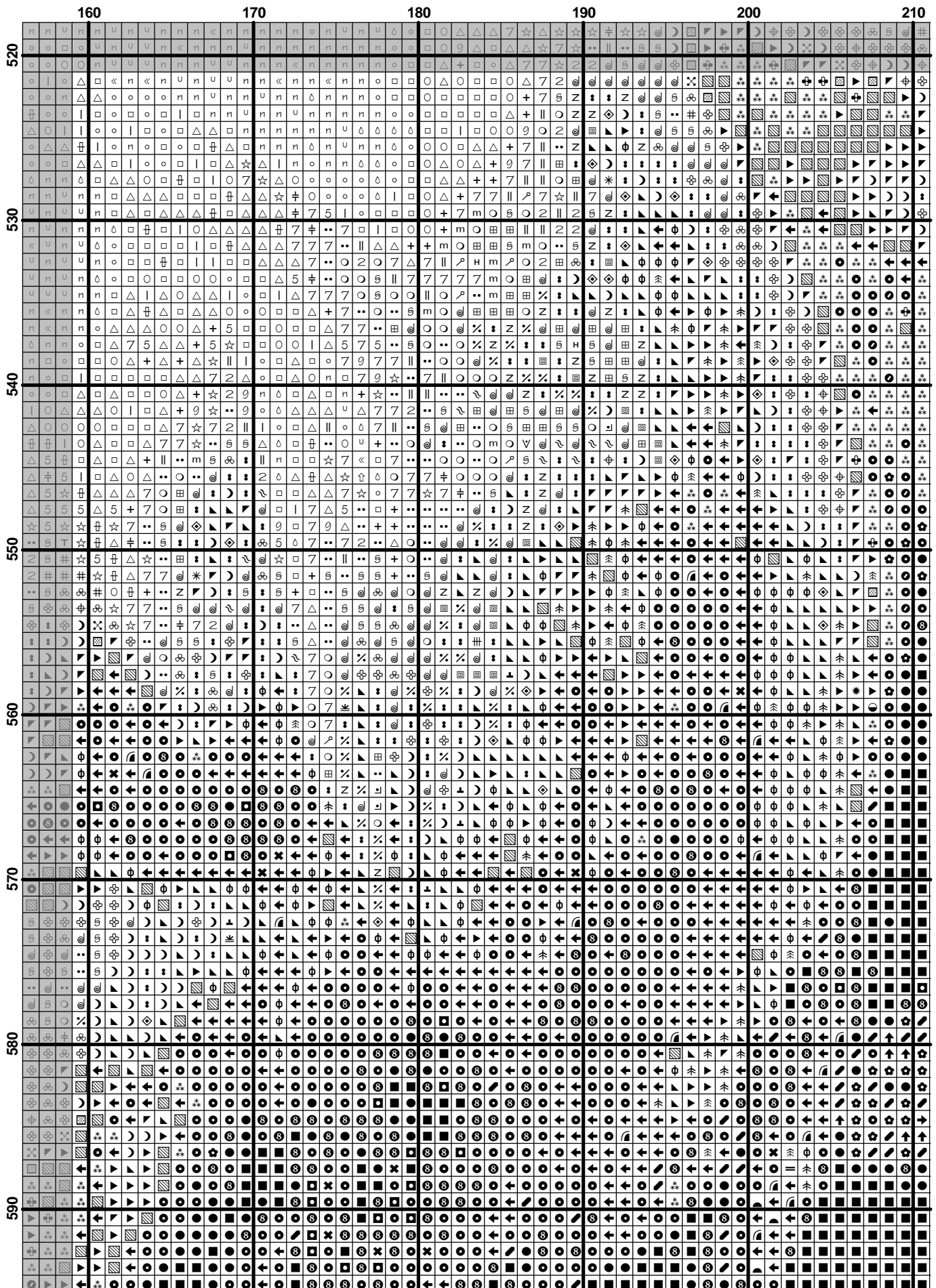


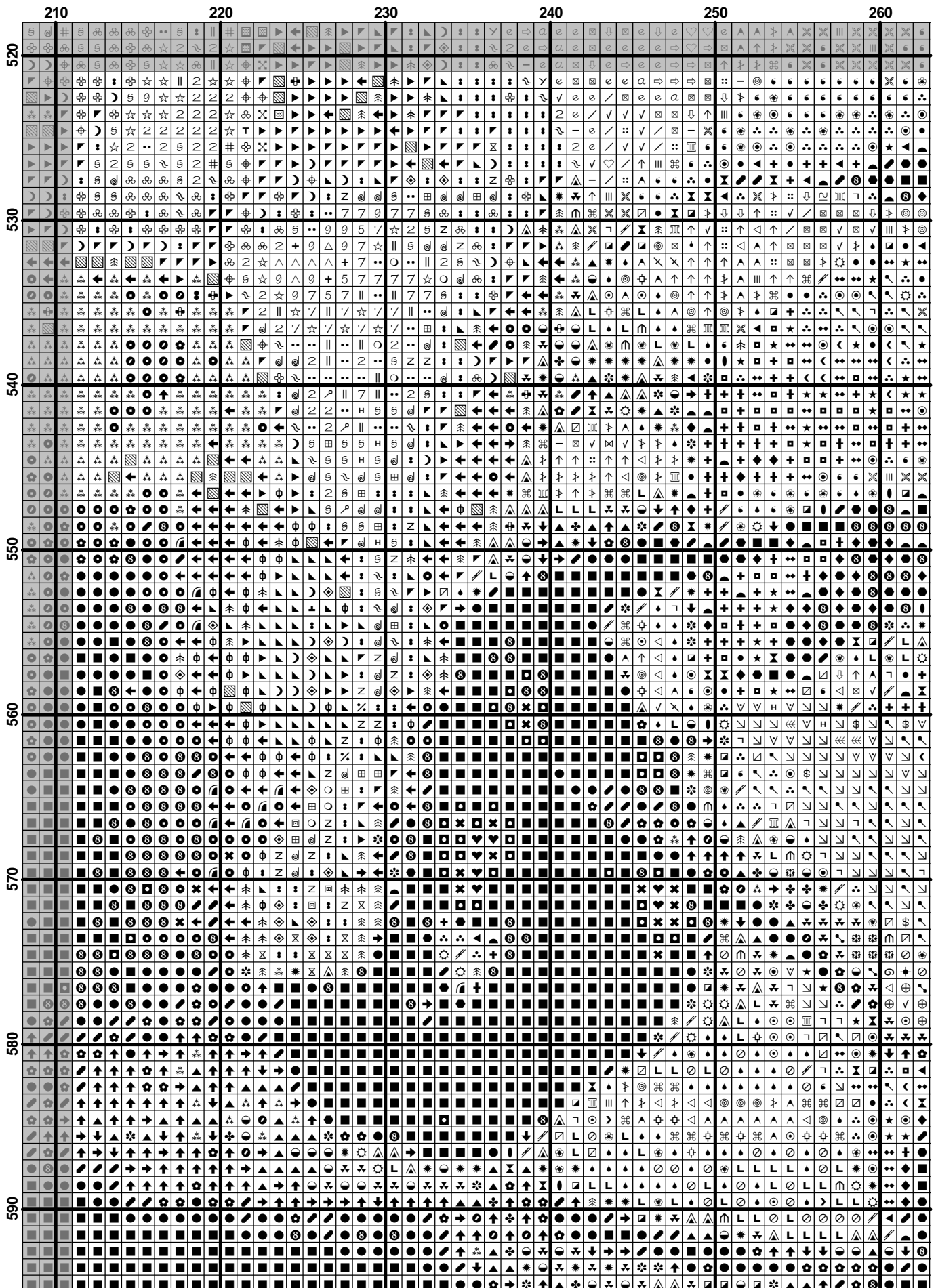


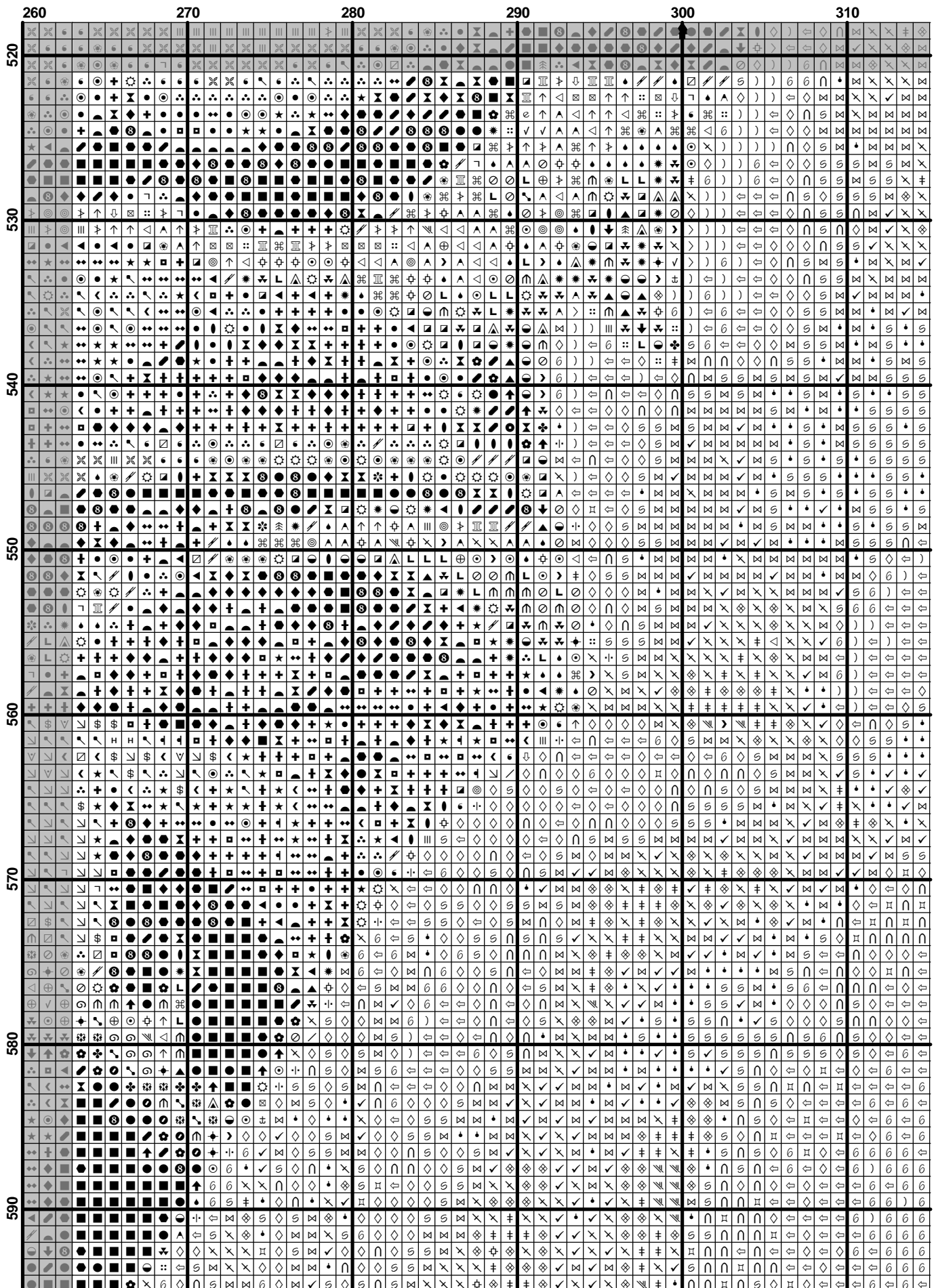


[illegible]

[illegible]









(104)

