

1201 Child Braiding a Crown



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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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Child Braiding a Crown

Stitch Count	
Horizontal:	400
Vertical:	635

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:	73	28.44	116	45.32	64	24.89	101	39.65	57	22.125	90	35.25
Including Margins:	89	35	132	52	80	31	117	46	73	29	106	42
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	102	39.81	162	63.44	85	33.18	135	52.87	42	16.59	67	26.43
Including Margins:	118	46	178	70	101	40	151	59	58	23	83	33
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	40	15.92	64	25.37	39	15.31	62	24.4	37	14.74	60	23.49
Including Margins:	56	22	80	32	55	22	78	31	53	21	76	30
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	36	14.22	58	22.66	34	13.27	54	21.14	31	12.44	50	19.82
Including Margins:	52	21	74	29	50	20	70	28	47	19	66	26

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
4	224	Shell Pink-VY LT
■	310	Black
◆	317	Pewter Gray
⦶	318	Steel Gray-LT
┆	369	Pistachio Green-VY LT
↪	371	Mustard
↩	372	Mustard-LT
●	413	Pewter Gray-DK
⦶	414	Steel Gray-DK
⦶	415	Pearl Gray
⦶	451	Shell Gray-DK
◁	452	Shell Gray-MD
●	500	Blue Green-VY DK
⊕	502	Blue Green
⦶	503	Blue Green-MD
⦶	522	Fern Green
⦶	523	Fern Green-LT
5	524	Fern Green-VY LT
▶	535	Ash Gray-VY LT
<	543	Beige Brown-UL VY LT
▲	610	Drab Brown-DK
↑	612	Drab Brown-LT
:	613	Drab Brown-VY LT
↗	640	Beige Gray-VY DK
∇	642	Beige Gray-DK
▲	645	Beaver Gray-VY DK
⦶	646	Beaver Gray-DK
△	647	Beaver Gray-MD
◊	648	Beaver Gray-LT
∇	712	Cream
✚	730	Olive Green-VY DK
+	738	Tan-VY LT
┐	739	Tan-UL VY LT
⊥	762	Pearl Gray-VY LT
∩	819	Baby Pink-LT
●	823	Navy Blue-DK
::	833	Golden Olive-LT
▲	839	Beige Brown-DK
⦶	840	Beige Brown-MD
┐	841	Beige Brown-LT
⦶	842	Beige Brown-VY LT
⦶	844	Beaver Brown-UL DK
◆	898	Coffee Brown-VY DK
⦶	924	Gray Green--VY DK
✚	926	Gray Green-MD
m	927	Gray Green-LT

／	928	Gray Green-VY LT
⦶	930	Antique Blue-DK
×	931	Antique Blue-MD
⦶	932	Antique Blue-LT
⦶	934	Black Avocado Green
↓	935	Avocado Green-DK
▲	936	Avocado Green-VY DK
⇒	950	Desert Sand-LT
↑	951	Tawny-LT
☾	3011	Khaki Green-DK
☒	3013	Khaki Green-LT
♣	3021	Brown Gray-VY DK
⊗	3022	Brown Gray-MD
7	3023	Brown Gray-LT
○	3024	Brown Gray-VY LT
	3032	Mocha Brown-MD
☾	3041	Antique Violet-MD
▨	3051	Green Gray-DK
⦶	3052	Green Gray-MD
⦶	3053	Green Gray
□	3072	Beaver Gray-VY LT
⦶	3362	Pine Green-DK
z	3363	Pine Green-MD
■	3371	Black Brown
△	3752	Antique Blue-VY LT
♡	3753	Antique Blue-UL VY LT
∞	3756	Baby Blue-UL VY LT
■	3768	Gray Green-DK
>	3774	Desert Sand-VY LT
▼	3781	Mocha Brown-DK
?	3782	Mocha Brown-LT
✱	3787	Brown Gray-DK
L	3790	Beige Gray-UL DK
↑	3799	Pewter Gray-VY DK
♣	3808	Turquoise-UL VY DK
♦	3809	Turquoise-VY DK
⦶	3810	Turquoise-DK
H	3814	Aquamarine
^	3816	Celadon Green-MD
⦶	3847	Teal Green-DK
⦶	3848	Teal Green-MD
..	3849	Teal Green-LT
❖	3860	Cocoa
×	3861	Cocoa-LT
//	3862	Mocha Beige-DK
∩	3863	Mocha Beige-MD
√	3864	Mocha Beige-LT
1	3865	Winter White

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

Symbol	DMC1	Name1	DMC2	Name2
⦶	932	Antique Blue-LT	3849	Teal Green-LT
=	3752	Antique Blue-VY LT	3753	Antique Blue-UL VY LT
3	415	Pearl Gray	932	Antique Blue-LT
α	415	Pearl Gray	3766	Peacock Blue-LT
≡	931	Antique Blue-MD	3849	Teal Green-LT
⊙	931	Antique Blue-MD	517	Wedgewood-DK
⊙	317	Pewter Gray	3809	Turquoise-VY DK
2	518	Wedgewood-LT	932	Antique Blue-LT
↘	413	Pewter Gray-DK	3799	Pewter Gray-VY DK
↓	3750	Antique Blue-VY DK	3847	Teal Green-DK
♠	317	Pewter Gray	992	Aquamarine-MD
⊞	3847	Teal Green-DK	3768	Gray Green-DK
+	3808	Turquoise-UL VY DK	3850	Bright Green-DK
○	927	Gray Green-LT	503	Blue Green-MD
*	930	Antique Blue-DK	3848	Teal Green-MD
↖	522	Fern Green	3860	Cocoa
⦶	413	Pewter Gray-DK	501	Blue Green-DK
•	839	Beige Brown-DK	3862	Mocha Beige-DK
⊙	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
×	3363	Pine Green-MD	3787	Brown Gray-DK
⦶	3790	Beige Gray-UL DK	3772	Desert Sand-VY DK
⌂	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
•	353	Peach	543	Beige Brown-UL VY LT
^	746	Off White	3753	Antique Blue-UL VY LT
⦶	407	Desert Sand-DK	642	Beige Gray-DK
✕	3799	Pewter Gray-VY DK	935	Avocado Green-DK
⦶	310	Black	3781	Mocha Brown-DK
)	3753	Antique Blue-UL VY LT	3072	Beaver Gray-VY LT
«	3756	Baby Blue-UL VY LT	3865	Winter White
⦶	3756	Baby Blue-UL VY LT	819	Baby Pink-LT
u	1	White 1	3865	Winter White
L	739	Tan-UL VY LT	842	Beige Brown-VY LT
e	3782	Mocha Brown-LT	842	Beige Brown-VY LT
⦶	415	Pearl Gray	453	Shell Gray-LT
T	3032	Mocha Brown-MD	3790	Beige Gray-UL DK
g	612	Drab Brown-LT	543	Beige Brown-UL VY LT
⦶	310	Black	3021	Brown Gray-VY DK
←	935	Avocado Green-DK	936	Avocado Green-VY DK
⦶	730	Olive Green-VY DK	310	Black
✧	3743	Antique Violet-VY LT	762	Pearl Gray-VY LT
⦶	414	Steel Gray-DK	932	Antique Blue-LT
X	926	Gray Green-MD	3041	Antique Violet-MD
↘	640	Beige Gray-VY DK	3860	Cocoa
H	648	Beaver Gray-LT	3817	Celadon Green-LT
✓	407	Desert Sand-DK	3861	Cocoa-LT
⦶	451	Shell Gray-DK	647	Beaver Gray-MD
↘	503	Blue Green-MD	451	Shell Gray-DK
•	451	Shell Gray-DK	840	Beige Brown-MD
✕	840	Beige Brown-MD	3032	Mocha Brown-MD
⦶	413	Pewter Gray-DK	934	Black Avocado Green
⦶	372	Mustard-LT	564	Jade-VY LT
(951	Tawny-LT	754	Peach-LT
↘	520	Fern Green-DK	3799	Pewter Gray-VY DK

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√	644	Beige Gray-MD	955	Nile Green-LT
☛	935	Avocado Green-DK	938	Coffee Brown-UL DK
6	644	Beige Gray-MD	648	Beaver Gray-LT
▼	3862	Mocha Beige-DK	3787	Brown Gray-DK
☐	612	Drab Brown-LT	842	Beige Brown-VY LT
↔	950	Desert Sand-LT	524	Fern Green-VY LT
☆	927	Gray Green-LT	3864	Mocha Beige-LT
☼	839	Beige Brown-DK	611	Drab Brown
◀	3862	Mocha Beige-DK	3052	Green Gray-MD
■	3362	Pine Green-DK	3768	Gray Green-DK
♣	730	Olive Green-VY DK	3862	Mocha Beige-DK
★	3052	Green Gray-MD	829	Golden Olive-VY DK
☉	829	Golden Olive-VY DK	632	Desert Sand-UL VY DK
♠	3809	Turquoise-VY DK	3848	Teal Green-MD
♣	317	Pewter Gray	3848	Teal Green-MD
♠	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
♠	844	Beaver Brown-UL DK	3787	Brown Gray-DK
➔	844	Beaver Brown-UL DK	934	Black Avocado Green
☒	642	Beige Gray-DK	3782	Mocha Brown-LT
↘	841	Beige Brown-LT	3032	Mocha Brown-MD
☐	3032	Mocha Brown-MD	3860	Cocoa
○	844	Beaver Brown-UL DK	3011	Khaki Green-DK
н	3861	Cocoa-LT	3864	Mocha Beige-LT
○	712	Cream	951	Tawny-LT
▷	950	Desert Sand-LT	951	Tawny-LT
☐	3363	Pine Green-MD	3862	Mocha Beige-DK
➔	3052	Green Gray-MD	3790	Beige Gray-UL DK
☒	840	Beige Brown-MD	3052	Green Gray-MD
♣	224	Shell Pink-VY LT	950	Desert Sand-LT
☒	452	Shell Gray-MD	647	Beaver Gray-MD
☐	451	Shell Gray-DK	841	Beige Brown-LT
☉	522	Fern Green	645	Beaver Gray-VY DK
☉	3362	Pine Green-DK	3363	Pine Green-MD
♣	501	Blue Green-DK	924	Gray Green--VY DK
—	407	Desert Sand-DK	372	Mustard-LT
◆	3862	Mocha Beige-DK	3790	Beige Gray-UL DK
	372	Mustard-LT	612	Drab Brown-LT
✱	839	Beige Brown-DK	844	Beaver Brown-UL DK
▲	3768	Gray Green-DK	3848	Teal Green-MD
☐	839	Beige Brown-DK	3787	Brown Gray-DK
▲	645	Beaver Gray-VY DK	3860	Cocoa
◀	839	Beige Brown-DK	3011	Khaki Green-DK
◇	738	Tan-VY LT	3864	Mocha Beige-LT
☐	517	Wedgewood-DK	930	Antique Blue-DK
☐	3809	Turquoise-VY DK	930	Antique Blue-DK
♥	823	Navy Blue-DK	924	Gray Green--VY DK
✱	3363	Pine Green-MD	3790	Beige Gray-UL DK
☒	3787	Brown Gray-DK	3790	Beige Gray-UL DK
☐	640	Beige Gray-VY DK	840	Beige Brown-MD
☐	3790	Beige Gray-UL DK	3860	Cocoa
☐	840	Beige Brown-MD	3790	Beige Gray-UL DK
☐	414	Steel Gray-DK	926	Gray Green-MD
=	535	Ash Gray-VY LT	3787	Brown Gray-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	
1	White 1	304	119	290	114	261	102
224	Shell Pink-VY LT	34	13	33	12	29	11
310	Black	7863	3095	7488	2948	6739	2653
317	Pewter Gray	552	217	526	207	473	186
318	Steel Gray-LT	28	11	26	10	24	9
353	Peach	5	1	4	1	4	1
369	Pistachio Green-VY LT	6	2	5	1	5	1
371	Mustard	302	118	288	113	259	101
372	Mustard-LT	630	248	600	236	540	212
407	Desert Sand-DK	224	88	213	83	192	75
413	Pewter Gray-DK	1293	509	1231	484	1108	436
414	Steel Gray-DK	99	38	95	37	85	33
415	Pearl Gray	184	72	175	68	157	61
451	Shell Gray-DK	1359	535	1294	509	1165	458
452	Shell Gray-MD	219	86	208	81	187	73
453	Shell Gray-LT	117	46	112	44	100	39
500	Blue Green-VY DK	3033	1194	2888	1137	2599	1023
501	Blue Green-DK	374	147	356	140	321	126
502	Blue Green	102	40	97	38	87	34
503	Blue Green-MD	294	115	280	110	252	99
517	Wedgewood-DK	13	5	12	4	11	4
518	Wedgewood-LT	2	1	2	1	2	1
520	Fern Green-DK	624	245	594	233	535	210
522	Fern Green	397	156	378	148	340	133
523	Fern Green-LT	17	6	16	6	14	5
524	Fern Green-VY LT	229	90	218	85	196	77
535	Ash Gray-VY LT	1029	405	980	385	882	347
543	Beige Brown-UL VY LT	355	139	338	133	304	119
564	Jade-VY LT	8	3	8	3	7	2
610	Drab Brown-DK	115	45	110	43	99	38
611	Drab Brown	150	59	142	55	128	50
612	Drab Brown-LT	1220	480	1162	457	1046	411
613	Drab Brown-VY LT	394	155	375	147	338	133
632	Desert Sand-UL VY DK	10	3	9	3	8	3
640	Beige Gray-VY DK	1053	414	1003	394	903	355
642	Beige Gray-DK	666	262	634	249	570	224
644	Beige Gray-MD	96	37	92	36	83	32
645	Beaver Gray-VY DK	2303	906	2194	863	1974	777
646	Beaver Gray-DK	511	201	487	191	438	172
647	Beaver Gray-MD	1401	551	1334	525	1201	472
648	Beaver Gray-LT	407	160	388	152	349	137
712	Cream	65	25	61	24	55	21
730	Olive Green-VY DK	32	12	30	11	27	10
738	Tan-VY LT	288	113	275	108	247	97
739	Tan-UL VY LT	412	162	393	154	353	138
746	Off White	197	77	188	74	169	66
754	Peach-LT	2	1	2	1	2	1
762	Pearl Gray-VY LT	97	38	92	36	83	32
819	Baby Pink-LT	75	29	71	27	64	25
823	Navy Blue-DK	296	116	281	110	253	99
829	Golden Olive-VY DK	116	45	111	43	100	39
833	Golden Olive-LT	5	1	5	1	4	1
839	Beige Brown-DK	777	305	740	291	666	262
840	Beige Brown-MD	2146	844	2043	804	1839	724

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841	Beige Brown-LT	504	198	480	188	432	170
842	Beige Brown-VY LT	686	270	653	257	588	231
844	Beaver Brown-UL DK	3148	1239	2998	1180	2698	1062
898	Coffee Brown-VY DK	25	9	24	9	21	8
924	Gray Green--VY DK	885	348	843	331	758	298
926	Gray Green-MD	328	129	312	122	281	110
927	Gray Green-LT	420	165	400	157	360	141
928	Gray Green-VY LT	272	107	259	101	233	91
930	Antique Blue-DK	326	128	311	122	280	110
931	Antique Blue-MD	254	100	242	95	218	85
932	Antique Blue-LT	76	29	73	28	65	25
934	Black Avocado Green	4256	1675	4054	1596	3648	1436
935	Avocado Green-DK	1910	751	1819	716	1637	644
936	Avocado Green-VY DK	46	18	44	17	39	15
938	Coffee Brown-UL DK	124	48	118	46	106	41
950	Desert Sand-LT	217	85	207	81	186	73
951	Tawny-LT	138	54	131	51	118	46
955	Nile Green-LT	46	18	44	17	39	15
992	Aquamarine-MD	78	30	74	29	67	26
3011	Khaki Green-DK	265	104	252	99	227	89
3013	Khaki Green-LT	65	25	62	24	56	22
3021	Brown Gray-VY DK	4052	1595	3859	1519	3473	1367
3022	Brown Gray-MD	388	152	370	145	333	131
3023	Brown Gray-LT	93	36	89	35	80	31
3024	Brown Gray-VY LT	314	123	299	117	269	105
3031	Mocha Brown-VY DK	84	33	80	31	72	28
3032	Mocha Brown-MD	2130	838	2028	798	1825	718
3041	Antique Violet-MD	123	48	117	46	105	41
3051	Green Gray-DK	235	92	224	88	202	79
3052	Green Gray-MD	645	253	614	241	552	217
3053	Green Gray	52	20	49	19	44	17
3072	Beaver Gray-VY LT	433	170	412	162	371	146
3362	Pine Green-DK	347	136	331	130	298	117
3363	Pine Green-MD	274	107	260	102	234	92
3371	Black Brown	598	235	569	224	512	201
3743	Antique Violet-VY LT	6	2	5	1	5	1
3750	Antique Blue-VY DK	39	15	38	14	34	13
3752	Antique Blue-VY LT	20	7	19	7	17	6
3753	Antique Blue-UL VY LT	269	105	256	100	231	90
3756	Baby Blue-UL VY LT	303	119	288	113	259	101
3766	Peacock Blue-LT	7	2	6	2	6	2
3768	Gray Green-DK	888	349	846	333	761	299
3772	Desert Sand-VY DK	45	17	43	16	38	14
3774	Desert Sand-VY LT	138	54	131	51	118	46
3781	Mocha Brown-DK	362	142	345	135	310	122
3782	Mocha Brown-LT	724	285	690	271	621	244
3787	Brown Gray-DK	2122	835	2021	795	1819	716
3790	Beige Gray-UL DK	2674	1052	2547	1002	2292	902
3799	Pewter Gray-VY DK	2851	1122	2715	1068	2443	961
3808	Turquoise-UL VY DK	6	2	5	1	5	1
3809	Turquoise-VY DK	134	52	128	50	115	45
3810	Turquoise-DK	50	19	48	18	43	16
3814	Aquamarine	2	1	2	1	1	1
3816	Celadon Green-MD	30	11	29	11	26	10
3817	Celadon Green-LT	154	60	147	57	132	51
3847	Teal Green-DK	240	94	229	90	206	81
3848	Teal Green-MD	516	203	491	193	442	174
3849	Teal Green-LT	98	38	93	36	84	33
3850	Bright Green-DK	1	1	1	1	1	1

3860	Cocoa	745	293	710	279	639	251
3861	Cocoa-LT	181	71	172	67	155	61
3862	Mocha Beige-DK	1182	465	1126	443	1013	398
3863	Mocha Beige-MD	368	144	351	138	315	124
3864	Mocha Beige-LT	368	144	351	138	315	124
3865	Winter White	737	290	701	275	631	248

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	470	184	392	153	196	77
224	Shell Pink-VY LT	52	20	44	17	22	8
310	Black	12130	4775	10109	3980	5054	1990
317	Pewter Gray	851	335	710	279	355	140
318	Steel Gray-LT	43	16	36	14	18	7
353	Peach	7	2	6	2	3	1
369	Pistachio Green-VY LT	9	2	8	2	4	1
371	Mustard	466	182	389	152	194	76
372	Mustard-LT	972	382	810	318	405	159
407	Desert Sand-DK	346	135	288	113	144	56
413	Pewter Gray-DK	1994	785	1662	654	831	327
414	Steel Gray-DK	153	59	128	50	64	25
415	Pearl Gray	283	110	236	92	118	46
451	Shell Gray-DK	2097	824	1748	687	874	344
452	Shell Gray-MD	337	131	281	110	140	55
453	Shell Gray-LT	180	70	150	59	75	29
500	Blue Green-VY DK	4678	1841	3899	1535	1949	767
501	Blue Green-DK	578	227	482	189	241	95
502	Blue Green	157	61	131	51	65	26
503	Blue Green-MD	454	178	378	149	189	74
517	Wedgewood-DK	20	7	17	6	8	3
518	Wedgewood-LT	4	2	3	2	2	1
520	Fern Green-DK	963	378	803	315	401	158
522	Fern Green	612	239	510	200	255	100
523	Fern Green-LT	25	9	21	8	11	4
524	Fern Green-VY LT	353	139	294	116	147	58
535	Ash Gray-VY LT	1588	625	1323	521	662	260
543	Beige Brown-UL VY LT	547	214	456	179	228	89
564	Jade-VY LT	13	4	11	3	5	2
610	Drab Brown-DK	178	68	149	57	74	29
611	Drab Brown	230	90	192	75	96	38
612	Drab Brown-LT	1883	740	1569	617	785	308
613	Drab Brown-VY LT	608	239	507	200	254	100
632	Desert Sand-UL VY DK	14	5	12	5	6	2
640	Beige Gray-VY DK	1625	639	1355	533	677	266
642	Beige Gray-DK	1026	403	855	336	428	168
644	Beige Gray-MD	149	58	125	48	62	24
645	Beaver Gray-VY DK	3553	1399	2961	1166	1481	583
646	Beaver Gray-DK	788	310	657	258	329	129
647	Beaver Gray-MD	2162	850	1802	708	901	354
648	Beaver Gray-LT	628	247	524	206	262	103
712	Cream	99	38	83	32	41	16
730	Olive Green-VY DK	49	18	41	15	20	8
738	Tan-VY LT	445	175	371	146	185	73
739	Tan-UL VY LT	635	248	530	207	265	104
746	Off White	304	119	254	99	127	50

754	Peach-LT	4	2	3	2	2	1
762	Pearl Gray-VY LT	149	58	125	48	62	24
819	Baby Pink-LT	115	45	96	38	48	19
823	Navy Blue-DK	455	178	380	149	190	74
829	Golden Olive-VY DK	180	70	150	59	75	29
833	Golden Olive-LT	7	2	6	2	3	1
839	Beige Brown-DK	1199	472	999	393	500	197
840	Beige Brown-MD	3310	1303	2759	1086	1379	543
841	Beige Brown-LT	778	306	648	255	324	128
842	Beige Brown-VY LT	1058	416	882	347	441	173
844	Beaver Brown-UL DK	4856	1912	4047	1593	2024	797
898	Coffee Brown-VY DK	38	14	32	12	16	6
924	Gray Green--VY DK	1364	536	1137	447	569	224
926	Gray Green-MD	506	198	422	165	211	83
927	Gray Green-LT	648	254	540	212	270	106
928	Gray Green-VY LT	419	164	350	137	175	68
930	Antique Blue-DK	504	198	420	165	210	83
931	Antique Blue-MD	392	153	327	128	164	64
932	Antique Blue-LT	117	45	98	38	49	19
934	Black Avocado Green	6566	2585	5472	2154	2736	1077
935	Avocado Green-DK	2947	1159	2456	966	1228	483
936	Avocado Green-VY DK	70	27	59	23	29	11
938	Coffee Brown-UL DK	191	74	159	62	80	31
950	Desert Sand-LT	335	131	279	110	140	55
951	Tawny-LT	212	83	177	69	89	35
955	Nile Green-LT	70	27	59	23	29	11
992	Aquamarine-MD	121	47	101	39	50	20
3011	Khaki Green-DK	409	160	341	134	170	67
3013	Khaki Green-LT	101	40	84	33	42	17
3021	Brown Gray-VY DK	6251	2461	5210	2051	2605	1025
3022	Brown Gray-MD	599	236	500	197	250	98
3023	Brown Gray-LT	144	56	120	47	60	23
3024	Brown Gray-VY LT	484	189	404	158	202	79
3031	Mocha Brown-VY DK	130	50	108	42	54	21
3032	Mocha Brown-MD	3285	1292	2738	1077	1369	539
3041	Antique Violet-MD	189	74	158	62	79	31
3051	Green Gray-DK	364	142	303	119	152	59
3052	Green Gray-MD	994	391	828	326	414	163
3053	Green Gray	79	31	66	26	33	13
3072	Beaver Gray-VY LT	668	263	557	219	278	110
3362	Pine Green-DK	536	211	447	176	224	88
3363	Pine Green-MD	421	166	351	138	176	69
3371	Black Brown	922	362	768	302	384	151
3743	Antique Violet-VY LT	9	2	8	2	4	1
3750	Antique Blue-VY DK	61	23	51	20	26	10
3752	Antique Blue-VY LT	31	11	26	9	13	5
3753	Antique Blue-UL VY LT	416	162	347	135	173	68
3756	Baby Blue-UL VY LT	466	182	389	152	194	76
3766	Peacock Blue-LT	11	4	9	3	5	2
3768	Gray Green-DK	1370	538	1142	449	571	224
3772	Desert Sand-VY DK	68	25	57	21	29	11
3774	Desert Sand-VY LT	212	83	177	69	89	35
3781	Mocha Brown-DK	558	220	465	183	233	92
3782	Mocha Brown-LT	1118	439	932	366	466	183
3787	Brown Gray-DK	3274	1289	2729	1074	1364	537
3790	Beige Gray-UL DK	4126	1624	3438	1353	1719	677
3799	Pewter Gray-VY DK	4397	1730	3665	1442	1832	721
3808	Turquoise-UL VY DK	9	2	8	2	4	1
3809	Turquoise-VY DK	207	81	173	68	86	34

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3810	Turquoise-DK	77	29	65	24	32	12
3814	Aquamarine	2	2	2	2	1	1
3816	Celadon Green-MD	47	18	39	15	20	8
3817	Celadon Green-LT	238	92	198	77	99	38
3847	Teal Green-DK	371	146	309	122	155	61
3848	Teal Green-MD	796	313	663	261	332	131
3849	Teal Green-LT	151	59	126	50	63	25
3850	Bright Green-DK	2	2	2	2	1	1
3860	Cocoa	1150	452	959	377	479	188
3861	Cocoa-LT	279	110	233	92	116	46
3862	Mocha Beige-DK	1823	716	1520	597	760	299
3863	Mocha Beige-MD	567	223	473	186	236	93
3864	Mocha Beige-LT	567	223	473	186	236	93
3865	Winter White	1136	446	947	372	473	186

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	188	73	181	71	174	68
224	Shell Pink-VY LT	21	8	20	8	19	7
310	Black	4852	1910	4665	1837	4493	1769
317	Pewter Gray	341	134	327	129	315	124
318	Steel Gray-LT	17	6	17	6	16	6
353	Peach	3	1	3	1	3	1
369	Pistachio Green-VY LT	4	1	3	1	3	1
371	Mustard	186	73	179	70	173	67
372	Mustard-LT	389	153	374	147	360	141
407	Desert Sand-DK	138	54	133	52	128	50
413	Pewter Gray-DK	798	314	767	302	739	291
414	Steel Gray-DK	61	24	59	23	57	22
415	Pearl Gray	113	44	109	42	105	41
451	Shell Gray-DK	839	330	807	317	777	305
452	Shell Gray-MD	135	53	129	51	125	49
453	Shell Gray-LT	72	28	69	27	67	26
500	Blue Green-VY DK	1871	737	1799	708	1733	682
501	Blue Green-DK	231	91	222	87	214	84
502	Blue Green	63	24	60	24	58	23
503	Blue Green-MD	181	71	174	69	168	66
517	Wedgewood-DK	8	3	8	3	7	3
518	Wedgewood-LT	1	1	1	1	1	1
520	Fern Green-DK	385	151	370	145	357	140
522	Fern Green	245	96	235	92	227	89
523	Fern Green-LT	10	4	10	3	9	3
524	Fern Green-VY LT	141	55	136	53	131	51
535	Ash Gray-VY LT	635	250	611	240	588	231
543	Beige Brown-UL VY LT	219	86	210	82	203	79
564	Jade-VY LT	5	1	5	1	5	1
610	Drab Brown-DK	71	27	69	26	66	25
611	Drab Brown	92	36	89	35	85	33
612	Drab Brown-LT	753	296	724	285	697	274
613	Drab Brown-VY LT	243	96	234	92	225	89
632	Desert Sand-UL VY DK	6	2	6	2	5	2
640	Beige Gray-VY DK	650	256	625	246	602	237
642	Beige Gray-DK	410	161	395	155	380	149
644	Beige Gray-MD	60	23	57	22	55	21
645	Beaver Gray-VY DK	1421	559	1367	538	1316	518

646	Beaver Gray-DK	315	124	303	119	292	115
647	Beaver Gray-MD	865	340	831	327	801	315
648	Beaver Gray-LT	251	99	242	95	233	91
712	Cream	40	15	38	15	37	14
730	Olive Green-VY DK	19	7	19	7	18	7
738	Tan-VY LT	178	70	171	67	165	65
739	Tan-UL VY LT	254	99	244	96	235	92
746	Off White	122	48	117	46	113	44
754	Peach-LT	1	1	1	1	1	1
762	Pearl Gray-VY LT	60	23	57	22	55	21
819	Baby Pink-LT	46	18	44	17	43	17
823	Navy Blue-DK	182	71	175	69	169	66
829	Golden Olive-VY DK	72	28	69	27	67	26
833	Golden Olive-LT	3	1	3	1	3	1
839	Beige Brown-DK	480	189	461	181	444	175
840	Beige Brown-MD	1324	521	1273	501	1226	483
841	Beige Brown-LT	311	122	299	118	288	113
842	Beige Brown-VY LT	423	166	407	160	392	154
844	Beaver Brown-UL DK	1943	765	1868	735	1799	708
898	Coffee Brown-VY DK	15	6	15	6	14	5
924	Gray Green--VY DK	546	215	525	206	505	199
926	Gray Green-MD	202	79	195	76	187	73
927	Gray Green-LT	259	102	249	98	240	94
928	Gray Green-VY LT	168	66	161	63	155	61
930	Antique Blue-DK	202	79	194	76	187	73
931	Antique Blue-MD	157	61	151	59	145	57
932	Antique Blue-LT	47	18	45	17	43	17
934	Black Avocado Green	2627	1034	2526	994	2432	957
935	Avocado Green-DK	1179	464	1133	446	1091	429
936	Avocado Green-VY DK	28	11	27	10	26	10
938	Coffee Brown-UL DK	76	30	73	28	71	27
950	Desert Sand-LT	134	53	129	51	124	49
951	Tawny-LT	85	33	82	32	79	31
955	Nile Green-LT	28	11	27	10	26	10
992	Aquamarine-MD	48	19	46	18	45	17
3011	Khaki Green-DK	163	64	157	62	151	59
3013	Khaki Green-LT	40	16	39	15	37	15
3021	Brown Gray-VY DK	2501	984	2404	946	2315	911
3022	Brown Gray-MD	240	94	231	91	222	87
3023	Brown Gray-LT	58	22	55	21	53	21
3024	Brown Gray-VY LT	194	76	186	73	179	70
3031	Mocha Brown-VY DK	52	20	50	19	48	19
3032	Mocha Brown-MD	1314	517	1263	497	1217	479
3041	Antique Violet-MD	76	30	73	28	70	27
3051	Green Gray-DK	145	57	140	55	135	53
3052	Green Gray-MD	397	156	382	150	368	145
3053	Green Gray	32	12	30	12	29	11
3072	Beaver Gray-VY LT	267	105	257	101	247	97
3362	Pine Green-DK	215	84	206	81	199	78
3363	Pine Green-MD	168	66	162	64	156	61
3371	Black Brown	369	145	354	139	341	134
3743	Antique Violet-VY LT	4	1	3	1	3	1
3750	Antique Blue-VY DK	24	9	24	9	23	9
3752	Antique Blue-VY LT	12	4	12	4	11	4
3753	Antique Blue-UL VY LT	166	65	160	62	154	60
3756	Baby Blue-UL VY LT	186	73	179	70	173	67
3766	Peacock Blue-LT	4	1	4	1	4	1
3768	Gray Green-DK	548	215	527	207	507	199
3772	Desert Sand-VY DK	27	10	26	10	25	9

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3774	Desert Sand-VY LT	85	33	82	32	79	31
3781	Mocha Brown-DK	223	88	215	84	207	81
3782	Mocha Brown-LT	447	176	430	169	414	163
3787	Brown Gray-DK	1310	516	1259	496	1213	477
3790	Beige Gray-UL DK	1650	649	1587	624	1528	601
3799	Pewter Gray-VY DK	1759	692	1691	665	1629	641
3808	Turquoise-UL VY DK	4	1	3	1	3	1
3809	Turquoise-VY DK	83	32	80	31	77	30
3810	Turquoise-DK	31	12	30	11	29	11
3814	Aquamarine	1	1	1	1	1	1
3816	Celadon Green-MD	19	7	18	7	17	7
3817	Celadon Green-LT	95	37	91	35	88	34
3847	Teal Green-DK	148	58	143	56	137	54
3848	Teal Green-MD	318	125	306	120	295	116
3849	Teal Green-LT	60	24	58	23	56	22
3850	Bright Green-DK	1	1	1	1	1	1
3860	Cocoa	460	181	442	174	426	167
3861	Cocoa-LT	112	44	107	42	103	41
3862	Mocha Beige-DK	729	287	701	276	675	265
3863	Mocha Beige-MD	227	89	218	86	210	83
3864	Mocha Beige-LT	227	89	218	86	210	83
3865	Winter White	454	179	437	172	421	165

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	168	66	157	61	147	57
224	Shell Pink-VY LT	19	7	17	7	16	6
310	Black	4332	1706	4043	1592	3791	1492
317	Pewter Gray	304	120	284	112	266	105
318	Steel Gray-LT	15	6	14	5	14	5
353	Peach	3	1	2	1	2	1
369	Pistachio Green-VY LT	3	1	3	1	3	1
371	Mustard	167	65	155	61	146	57
372	Mustard-LT	347	136	324	127	304	119
407	Desert Sand-DK	123	48	115	45	108	42
413	Pewter Gray-DK	712	280	665	262	623	245
414	Steel Gray-DK	55	21	51	20	48	19
415	Pearl Gray	101	39	94	37	88	34
451	Shell Gray-DK	749	294	699	275	655	258
452	Shell Gray-MD	120	47	112	44	105	41
453	Shell Gray-LT	64	25	60	23	56	22
500	Blue Green-VY DK	1671	658	1559	614	1462	575
501	Blue Green-DK	206	81	193	76	181	71
502	Blue Green	56	22	52	20	49	19
503	Blue Green-MD	162	64	151	59	142	56
517	Wedgewood-DK	7	3	7	2	6	2
518	Wedgewood-LT	1	1	1	1	1	1
520	Fern Green-DK	344	135	321	126	301	118
522	Fern Green	219	86	204	80	191	75
523	Fern Green-LT	9	3	8	3	8	3
524	Fern Green-VY LT	126	50	118	46	110	43
535	Ash Gray-VY LT	567	223	529	208	496	195
543	Beige Brown-UL VY LT	195	77	182	71	171	67
564	Jade-VY LT	5	1	4	1	4	1
610	Drab Brown-DK	64	24	59	23	56	21
611	Drab Brown	82	32	77	30	72	28

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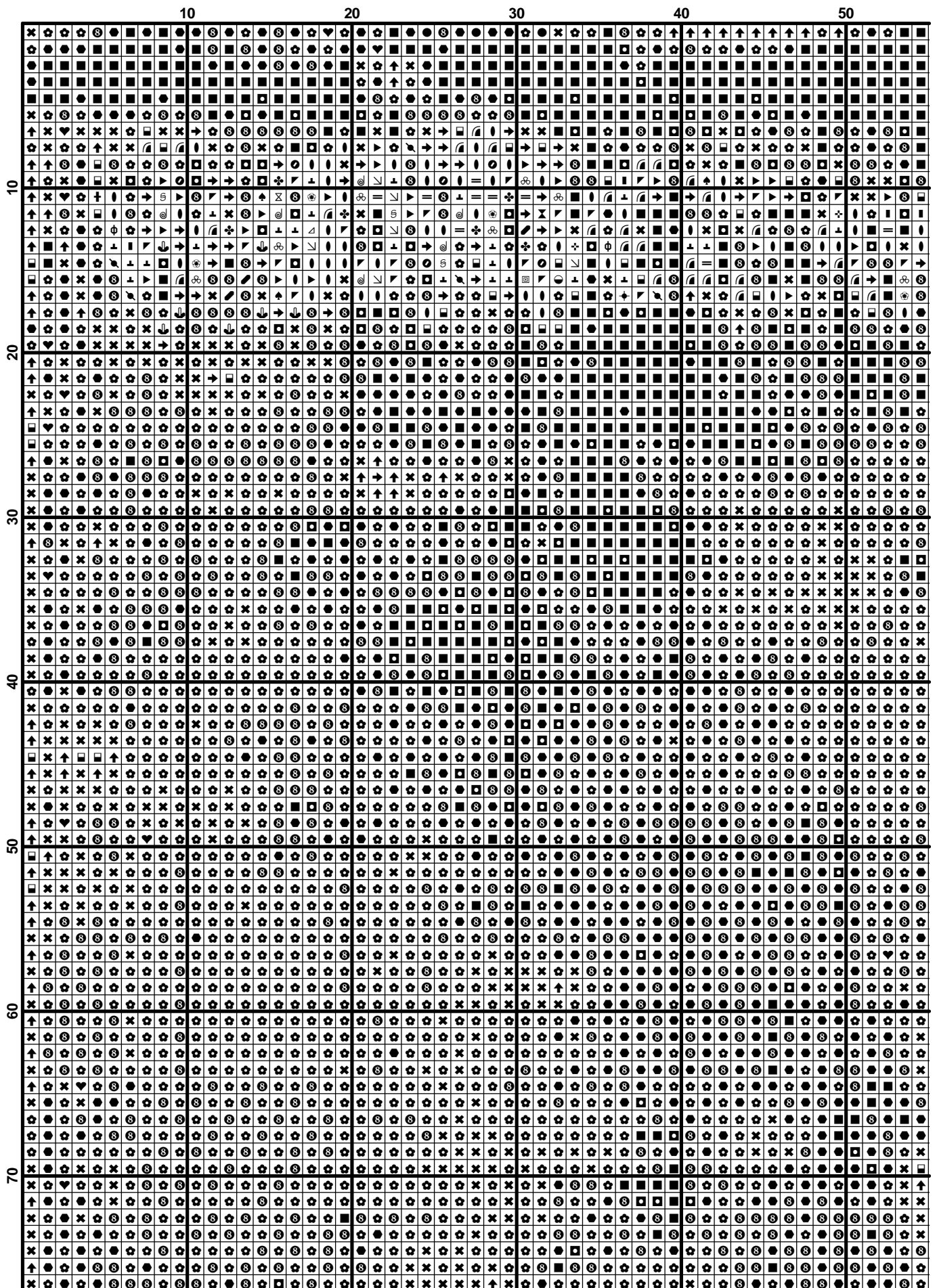
612	Drab Brown-LT	672	264	628	247	588	231
613	Drab Brown-VY LT	217	86	203	80	190	75
632	Desert Sand-UL VY DK	5	2	5	2	5	2
640	Beige Gray-VY DK	581	228	542	213	508	200
642	Beige Gray-DK	366	144	342	134	321	126
644	Beige Gray-MD	53	21	50	19	47	18
645	Beaver Gray-VY DK	1269	500	1184	466	1110	437
646	Beaver Gray-DK	282	111	263	103	246	97
647	Beaver Gray-MD	772	303	721	283	676	266
648	Beaver Gray-LT	224	88	209	82	196	77
712	Cream	35	14	33	13	31	12
730	Olive Green-VY DK	17	6	16	6	15	6
738	Tan-VY LT	159	62	148	58	139	55
739	Tan-UL VY LT	227	89	212	83	199	78
746	Off White	109	42	101	40	95	37
754	Peach-LT	1	1	1	1	1	1
762	Pearl Gray-VY LT	53	21	50	19	47	18
819	Baby Pink-LT	41	16	38	15	36	14
823	Navy Blue-DK	163	64	152	59	142	56
829	Golden Olive-VY DK	64	25	60	23	56	22
833	Golden Olive-LT	3	1	2	1	2	1
839	Beige Brown-DK	428	168	400	157	375	147
840	Beige Brown-MD	1182	465	1103	434	1034	407
841	Beige Brown-LT	278	109	259	102	243	96
842	Beige Brown-VY LT	378	149	353	139	331	130
844	Beaver Brown-UL DK	1734	683	1619	637	1518	597
898	Coffee Brown-VY DK	14	5	13	5	12	5
924	Gray Green--VY DK	487	192	455	179	426	168
926	Gray Green-MD	181	71	169	66	158	62
927	Gray Green-LT	231	91	216	85	203	79
928	Gray Green-VY LT	150	59	140	55	131	51
930	Antique Blue-DK	180	71	168	66	158	62
931	Antique Blue-MD	140	55	131	51	123	48
932	Antique Blue-LT	42	16	39	15	37	14
934	Black Avocado Green	2345	923	2189	862	2052	808
935	Avocado Green-DK	1052	414	982	386	921	362
936	Avocado Green-VY DK	25	10	23	9	22	8
938	Coffee Brown-UL DK	68	26	64	25	60	23
950	Desert Sand-LT	120	47	112	44	105	41
951	Tawny-LT	76	30	71	28	66	26
955	Nile Green-LT	25	10	23	9	22	8
992	Aquamarine-MD	43	17	40	16	38	15
3011	Khaki Green-DK	146	57	136	53	128	50
3013	Khaki Green-LT	36	14	34	13	32	12
3021	Brown Gray-VY DK	2233	879	2084	820	1954	769
3022	Brown Gray-MD	214	84	200	79	187	74
3023	Brown Gray-LT	51	20	48	19	45	17
3024	Brown Gray-VY LT	173	68	161	63	151	59
3031	Mocha Brown-VY DK	46	18	43	17	41	16
3032	Mocha Brown-MD	1173	462	1095	431	1027	404
3041	Antique Violet-MD	68	26	63	25	59	23
3051	Green Gray-DK	130	51	121	47	114	44
3052	Green Gray-MD	355	140	331	130	311	122
3053	Green Gray	28	11	26	10	25	10
3072	Beaver Gray-VY LT	239	94	223	88	209	82
3362	Pine Green-DK	192	75	179	70	168	66
3363	Pine Green-MD	150	59	140	55	132	52
3371	Black Brown	329	129	307	121	288	113
3743	Antique Violet-VY LT	3	1	3	1	3	1

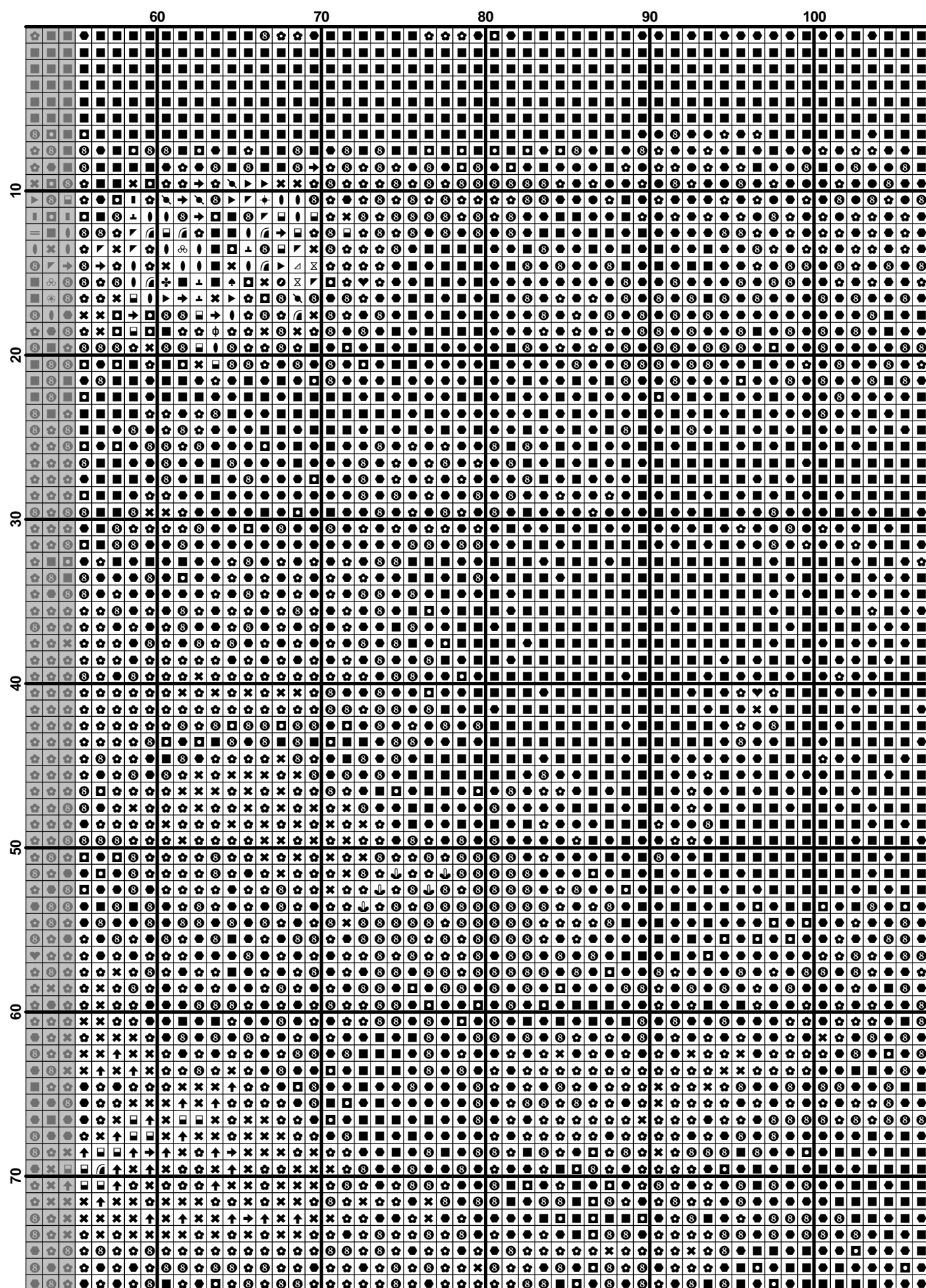
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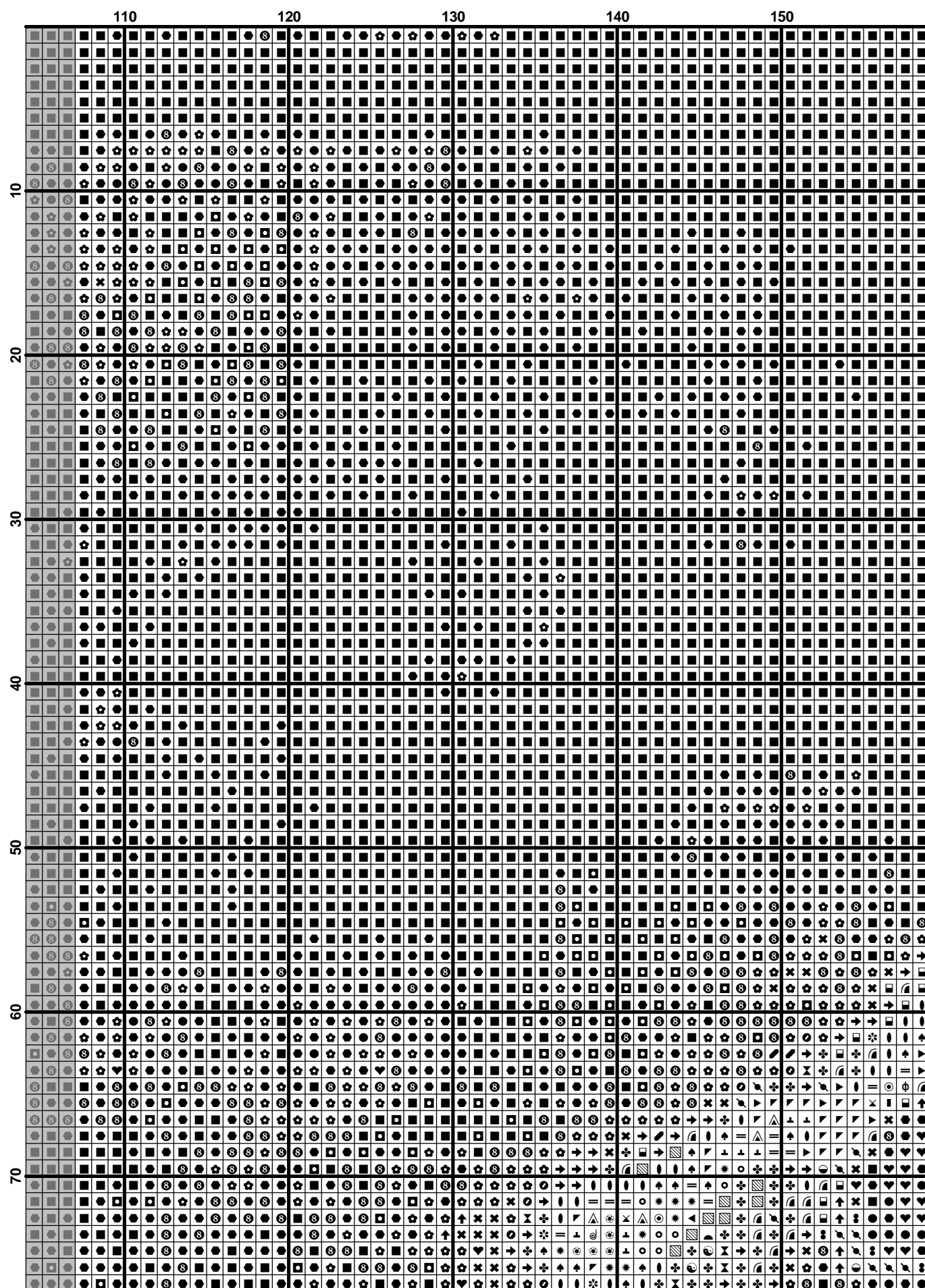
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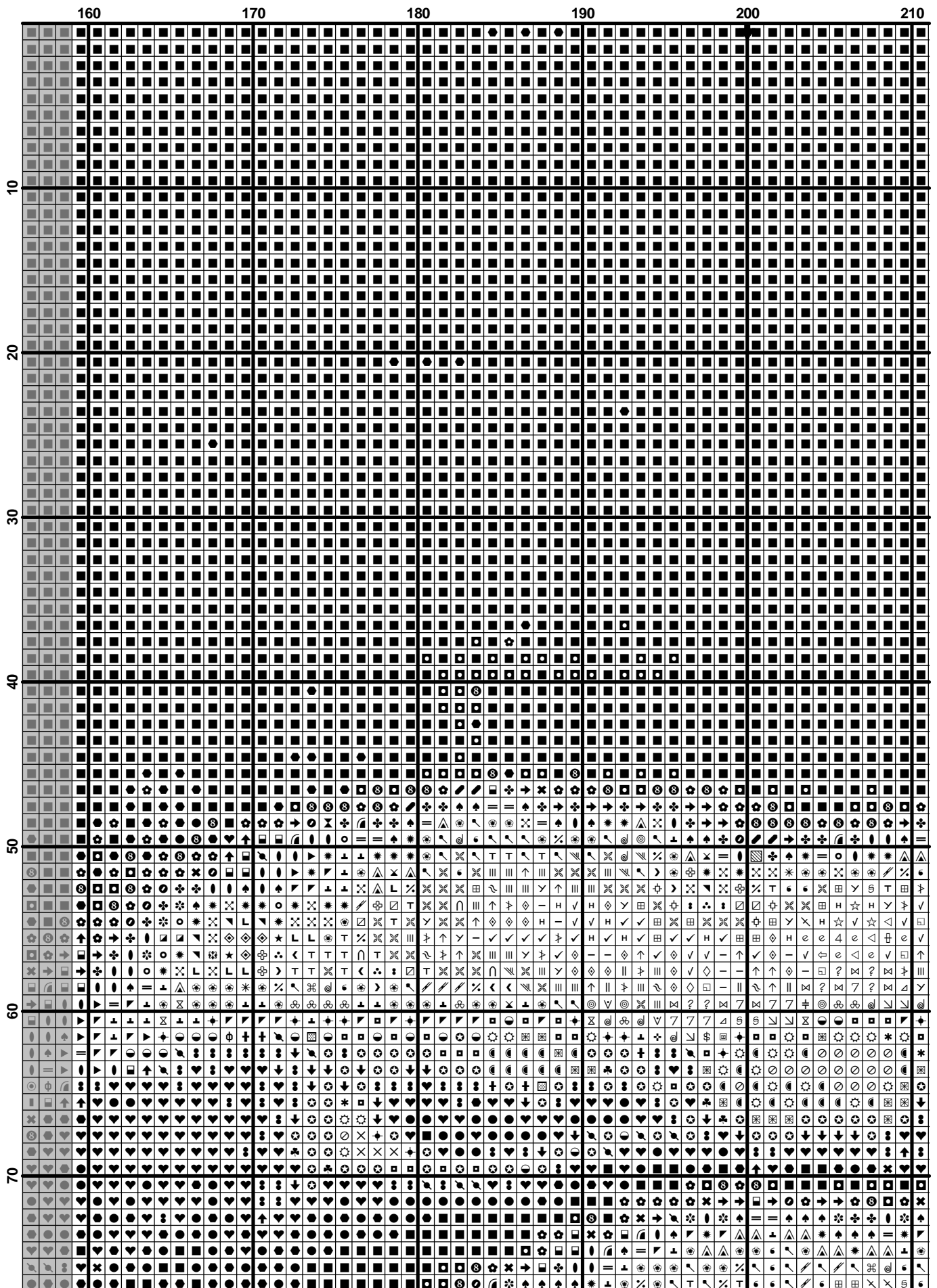
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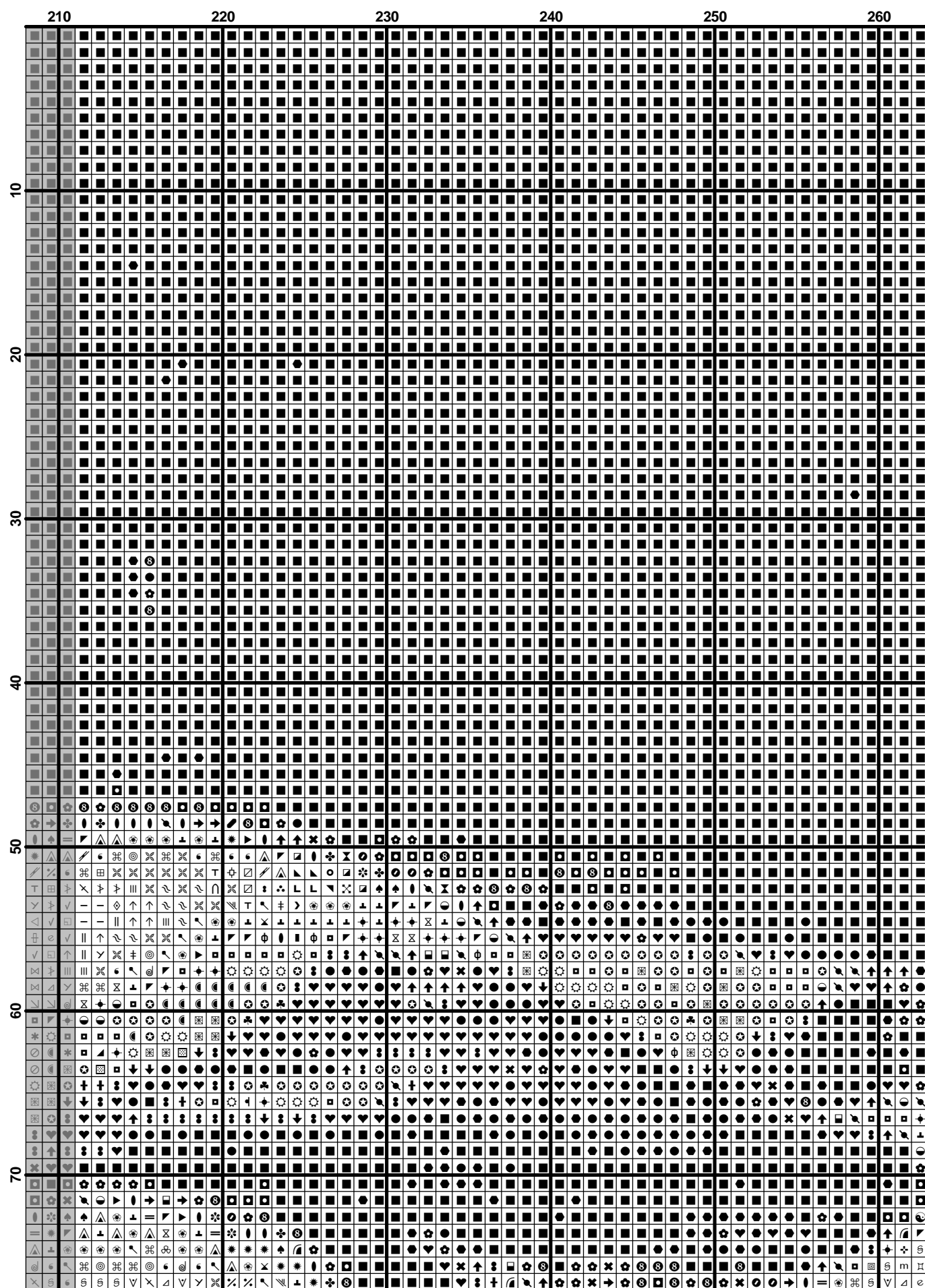
3750	Antique Blue-VY DK	22	8	20	8	19	7
3752	Antique Blue-VY LT	11	4	10	4	10	3
3753	Antique Blue-UL VY LT	149	58	139	54	130	51
3756	Baby Blue-UL VY LT	167	65	155	61	146	57
3766	Peacock Blue-LT	4	1	4	1	3	1
3768	Gray Green-DK	489	192	457	179	428	168
3772	Desert Sand-VY DK	24	9	23	8	21	8
3774	Desert Sand-VY LT	76	30	71	28	66	26
3781	Mocha Brown-DK	199	78	186	73	174	69
3782	Mocha Brown-LT	399	157	373	146	349	137
3787	Brown Gray-DK	1169	460	1091	430	1023	403
3790	Beige Gray-UL DK	1473	580	1375	541	1289	507
3799	Pewter Gray-VY DK	1571	618	1466	577	1374	541
3808	Turquoise-UL VY DK	3	1	3	1	3	1
3809	Turquoise-VY DK	74	29	69	27	65	25
3810	Turquoise-DK	28	10	26	10	24	9
3814	Aquamarine	1	1	1	1	1	1
3816	Celadon Green-MD	17	6	16	6	15	6
3817	Celadon Green-LT	85	33	79	31	74	29
3847	Teal Green-DK	132	52	124	49	116	46
3848	Teal Green-MD	284	112	265	104	249	98
3849	Teal Green-LT	54	21	50	20	47	19
3850	Bright Green-DK	1	1	1	1	1	1
3860	Cocoa	411	161	383	151	359	141
3861	Cocoa-LT	100	39	93	37	87	34
3862	Mocha Beige-DK	651	256	608	239	570	224
3863	Mocha Beige-MD	203	80	189	74	177	70
3864	Mocha Beige-LT	203	80	189	74	177	70
3865	Winter White	406	159	379	149	355	140

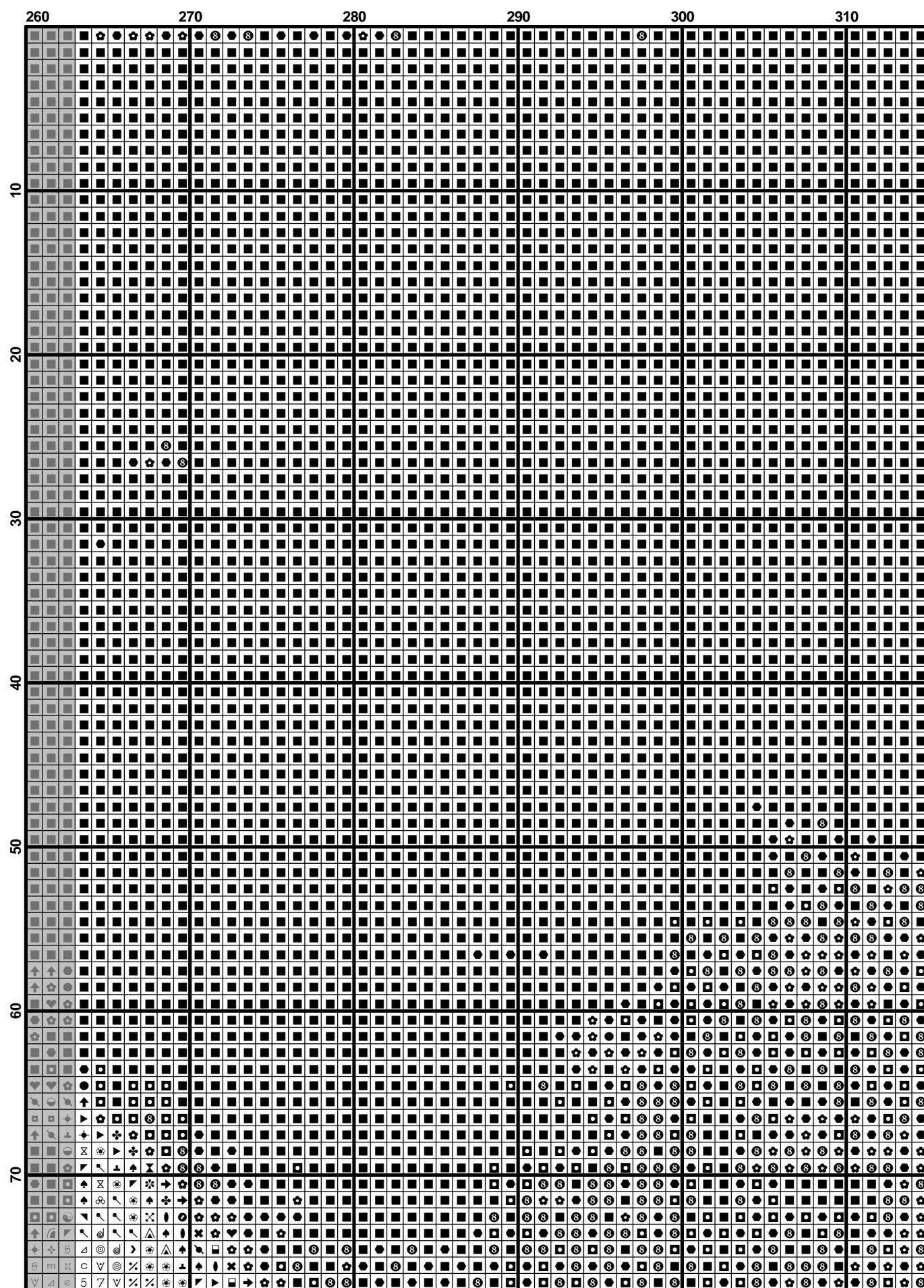


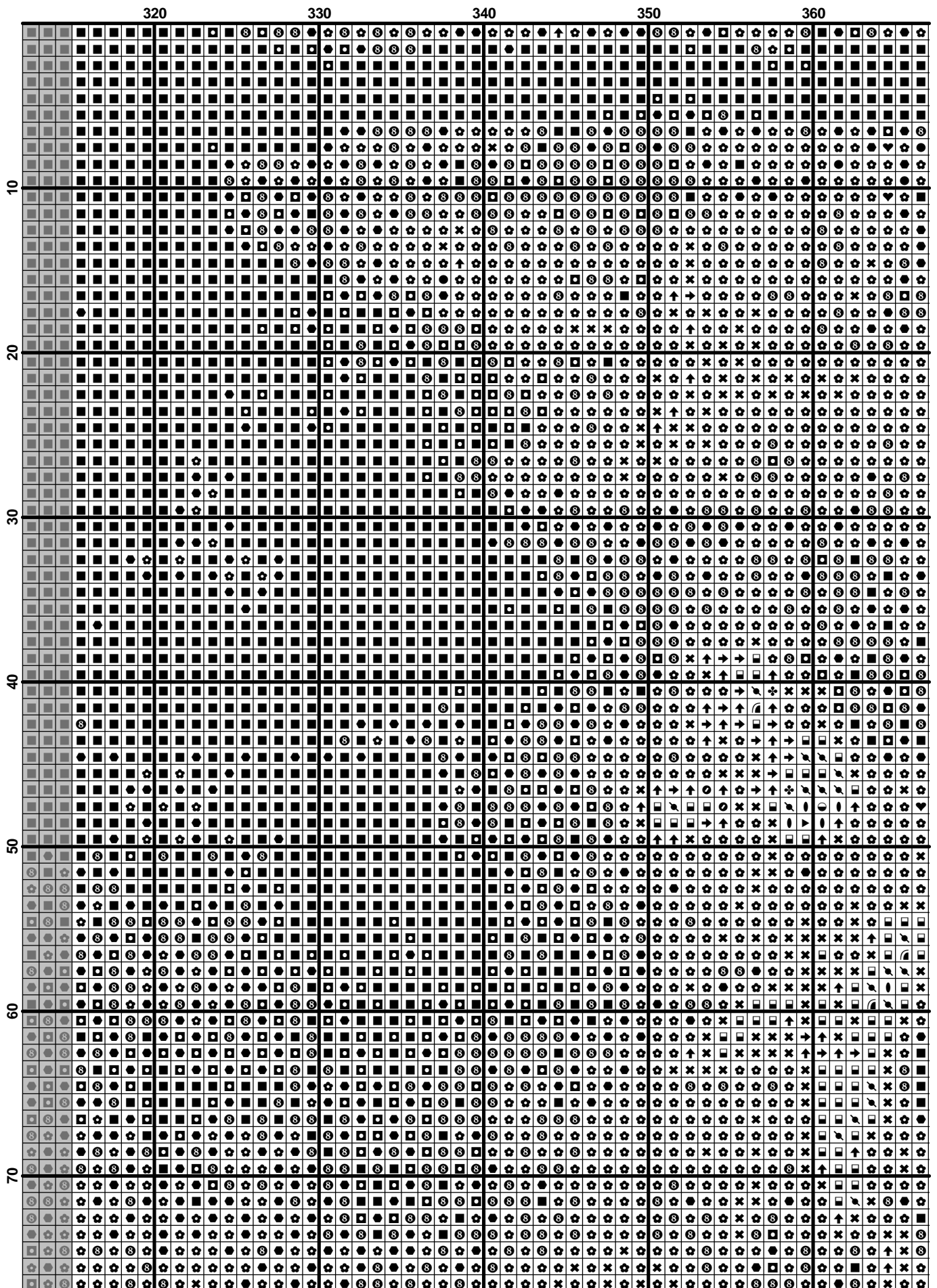


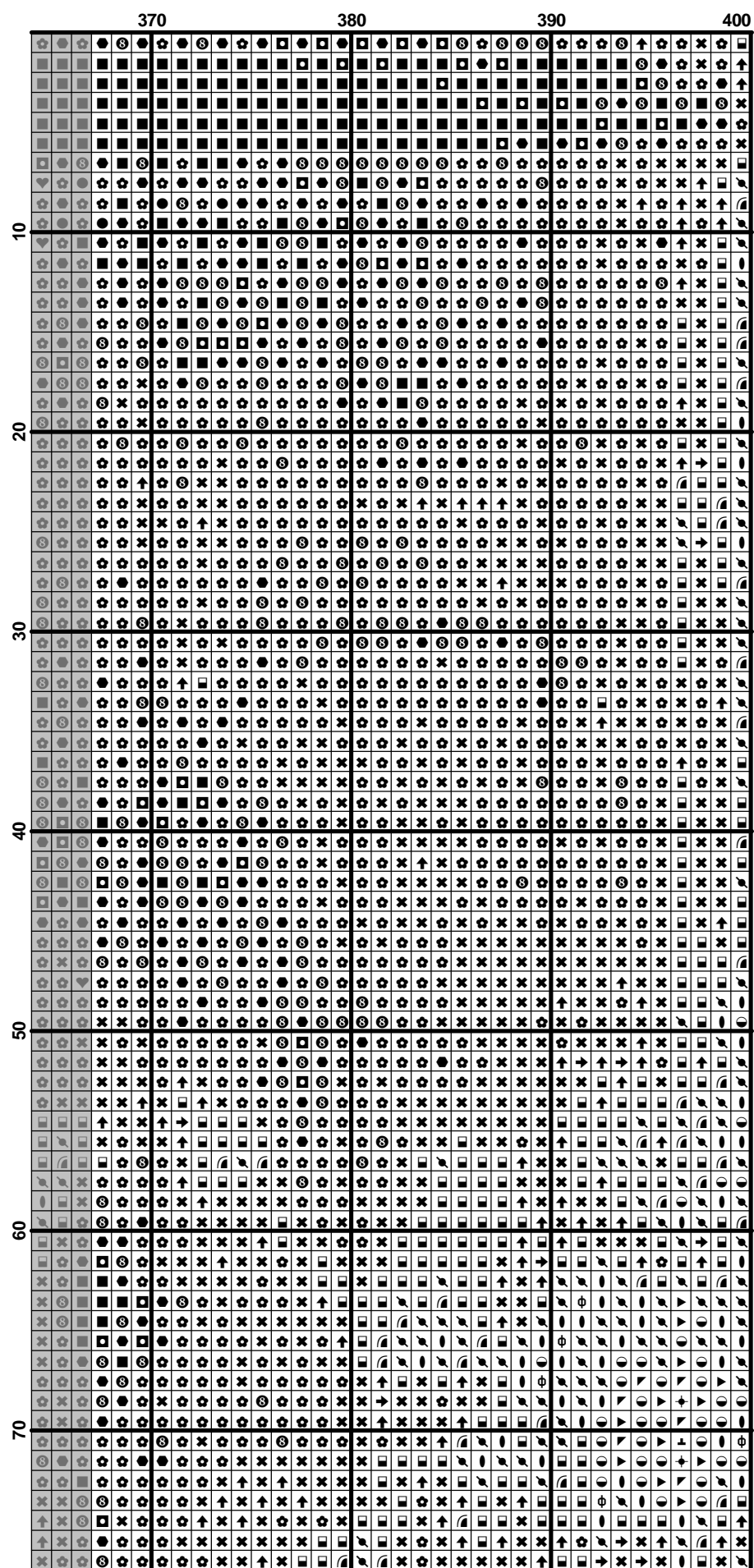


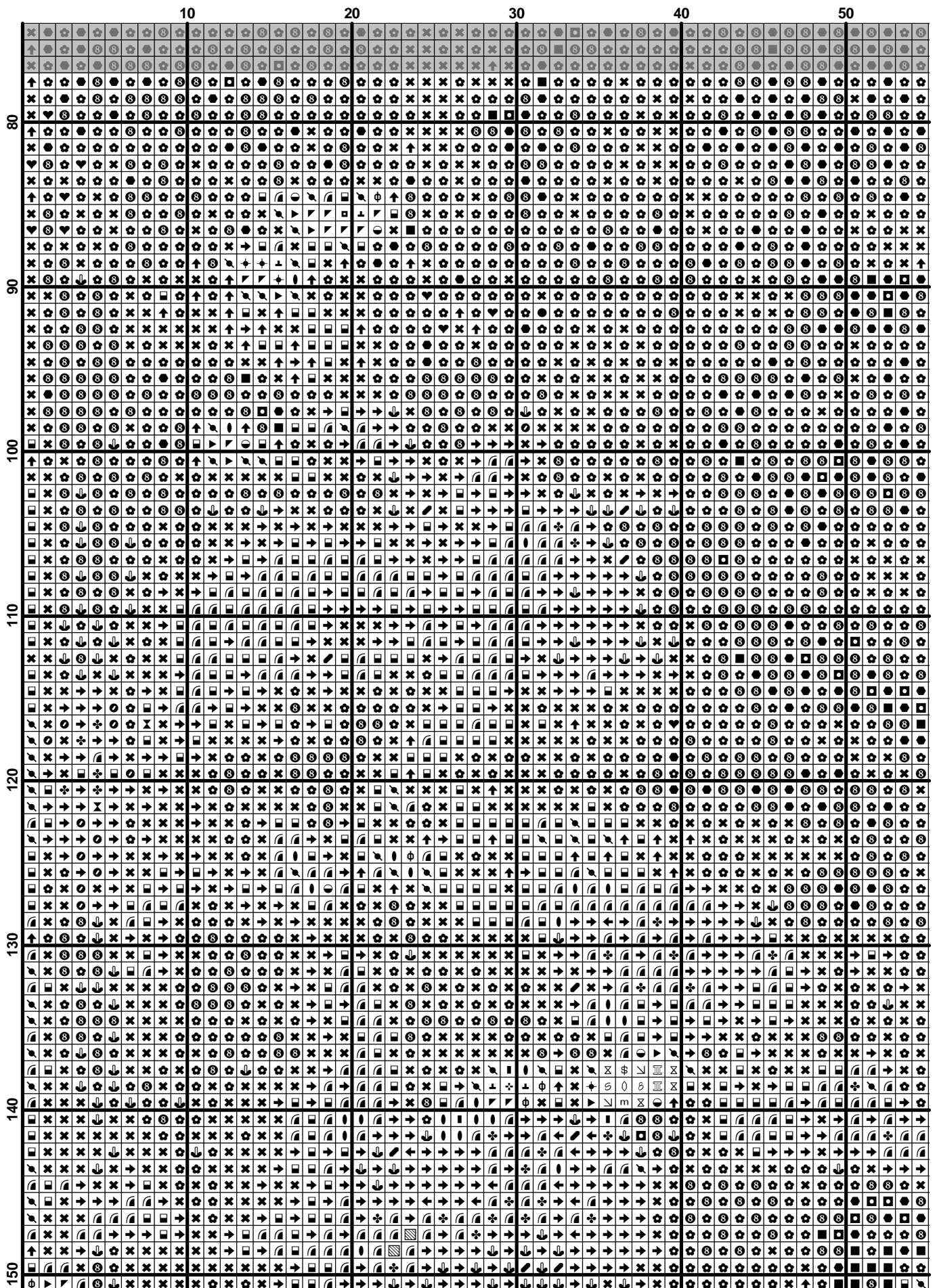


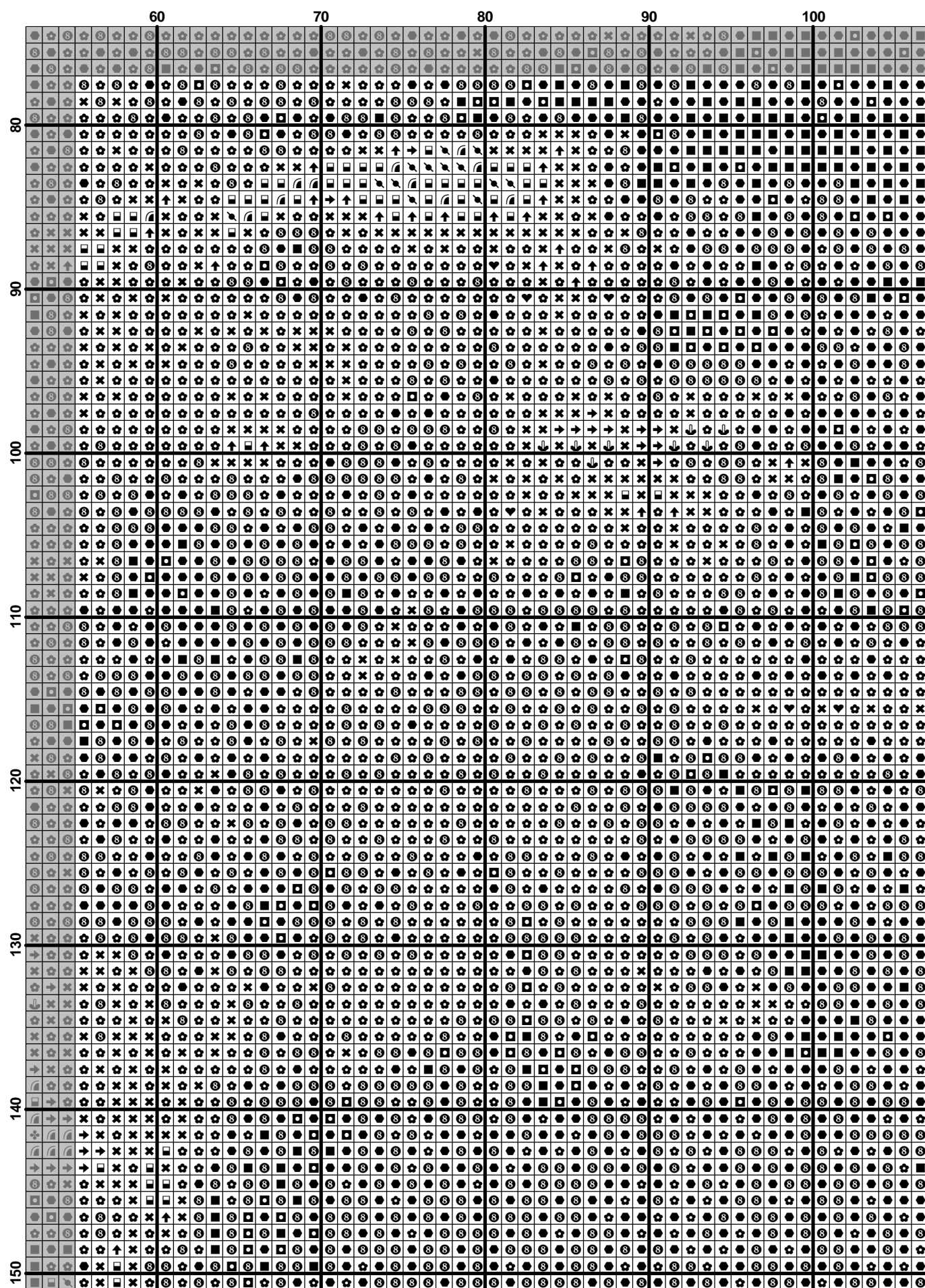


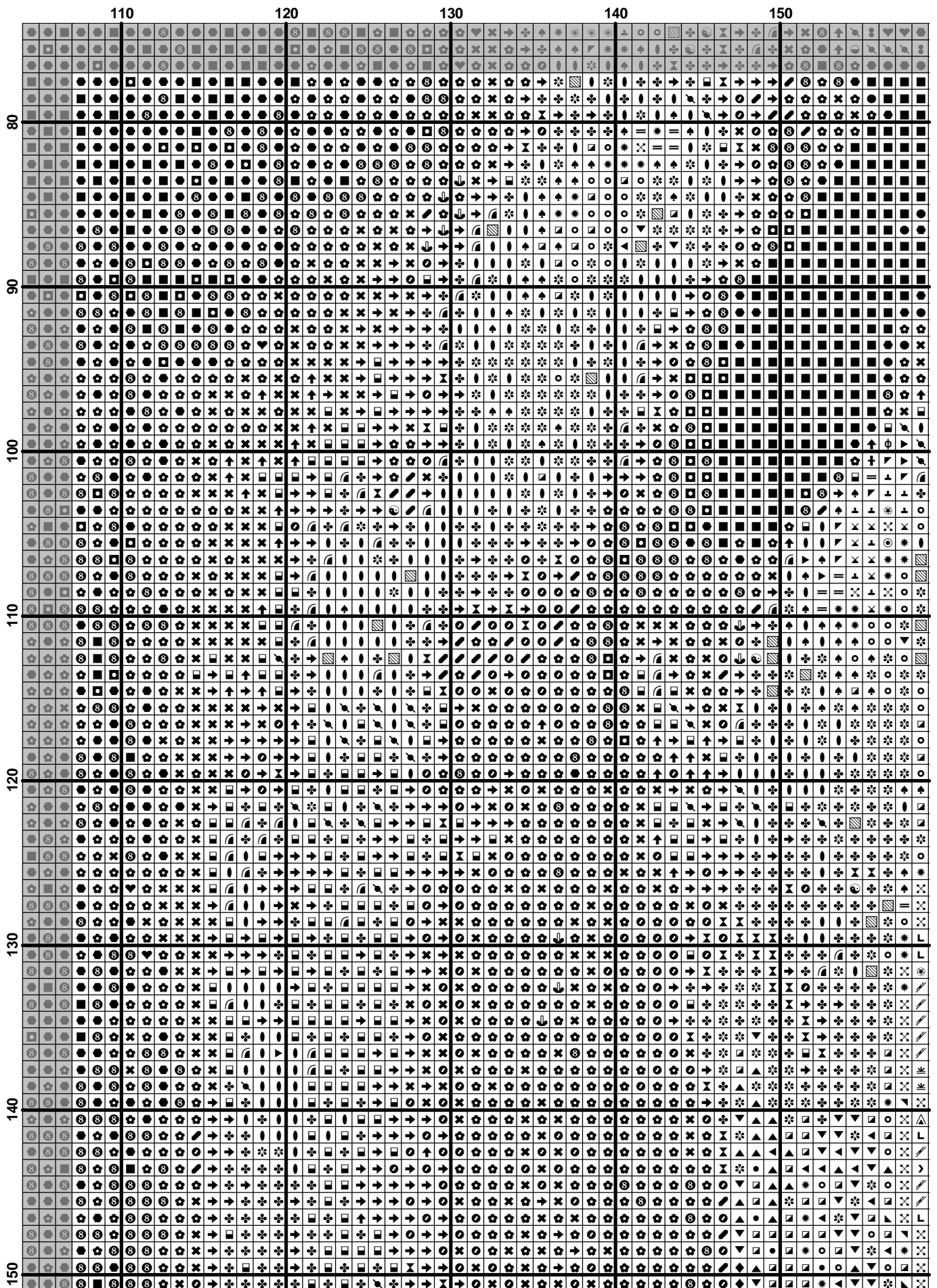


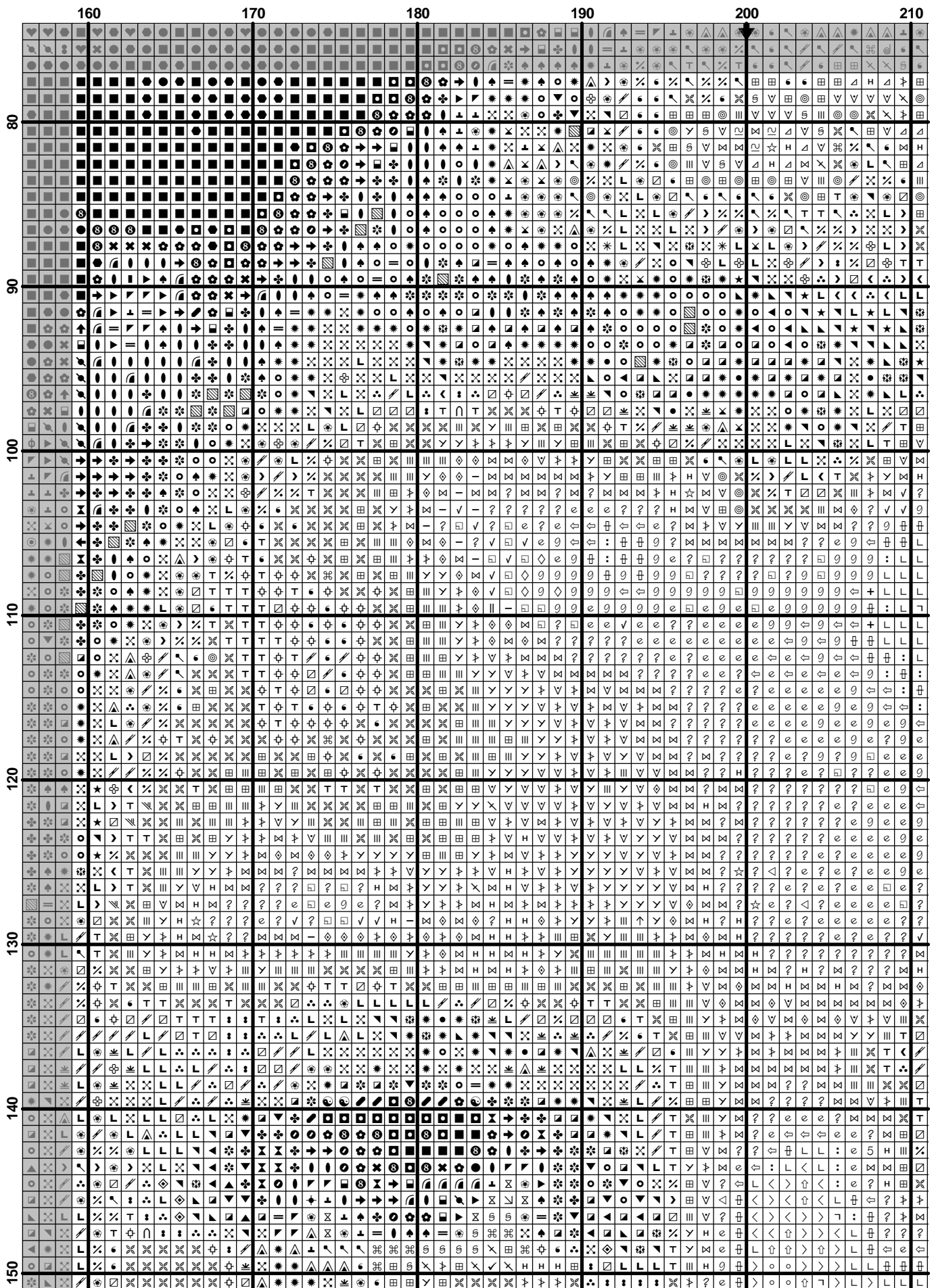


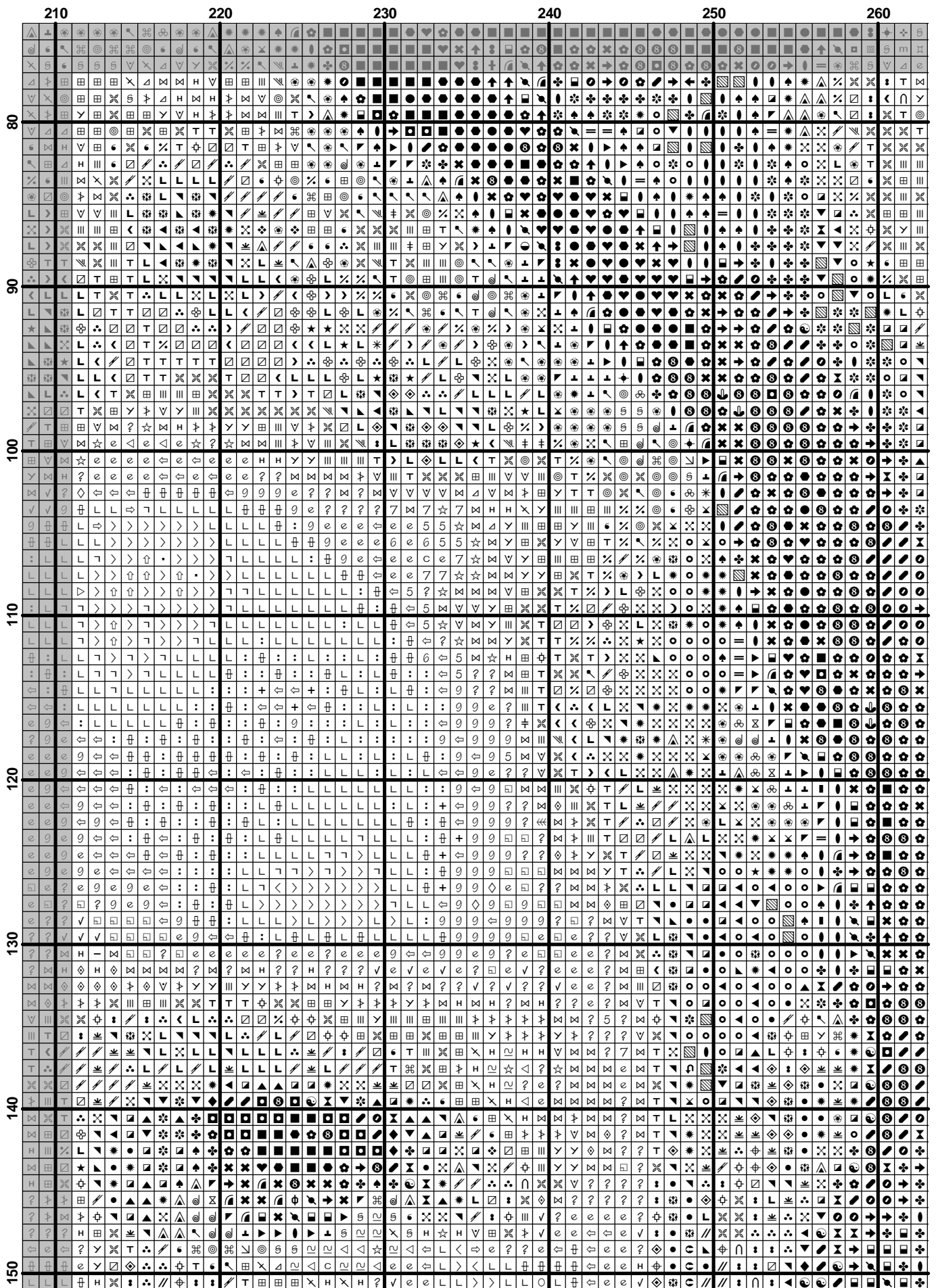


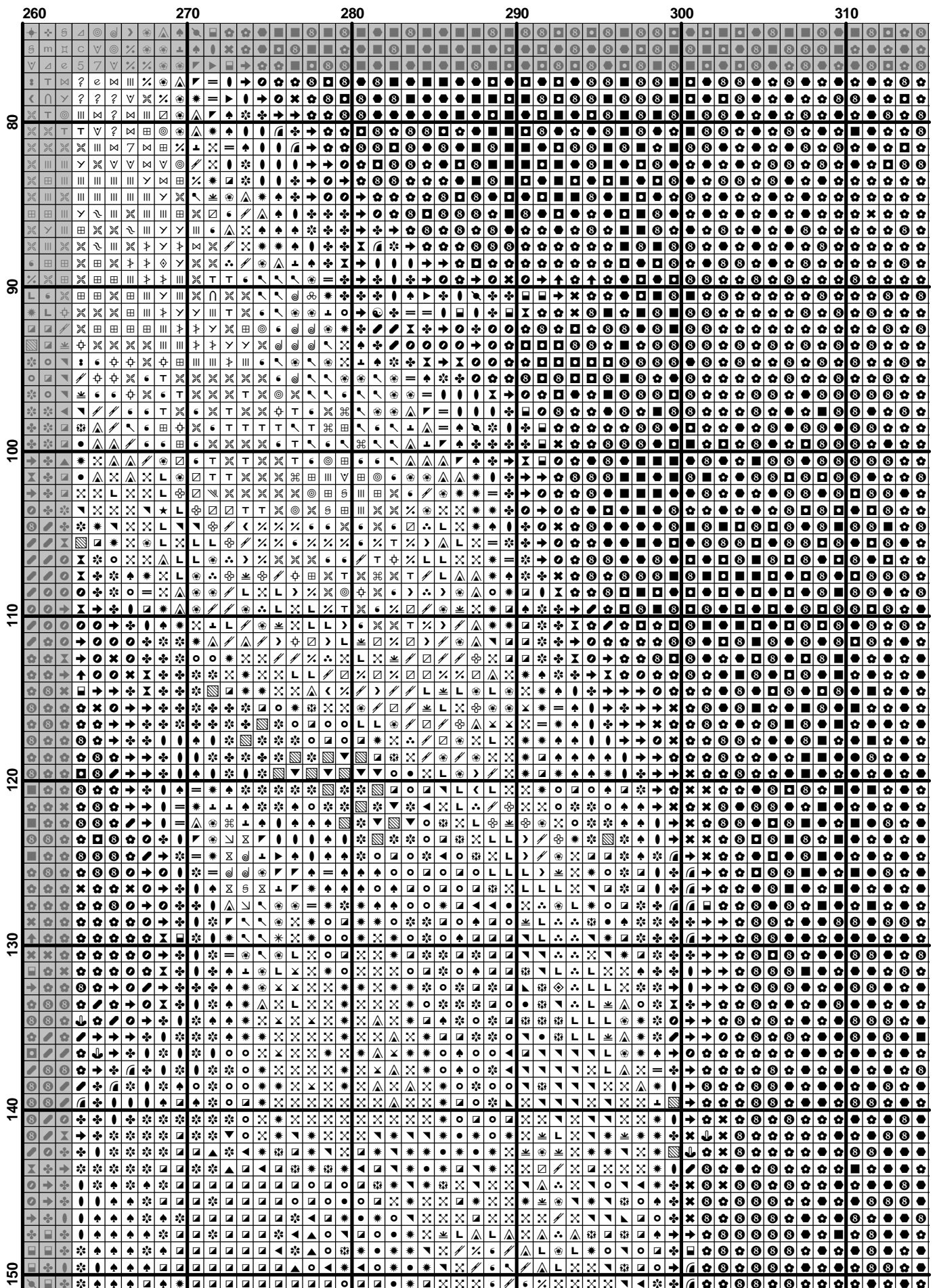


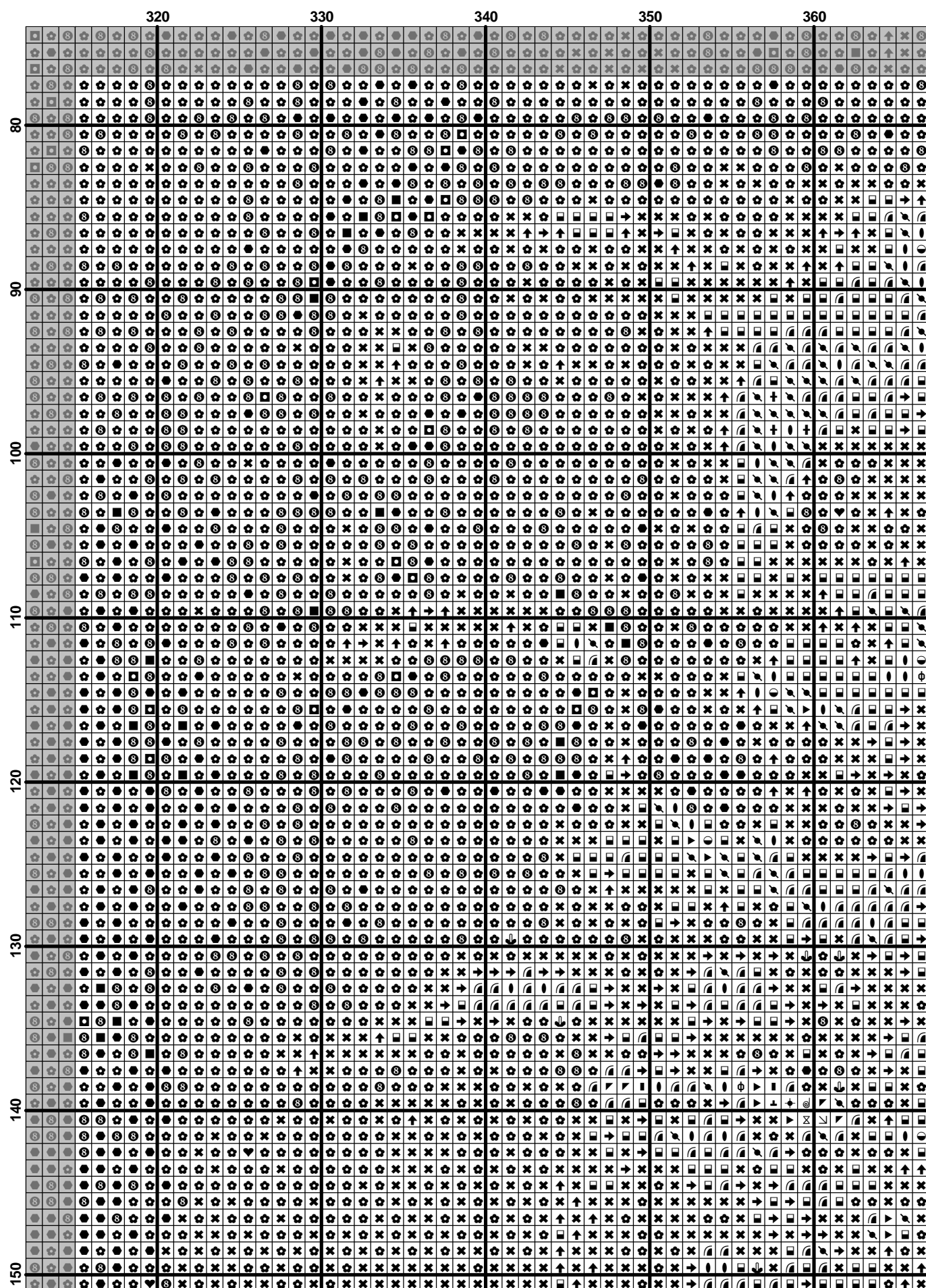


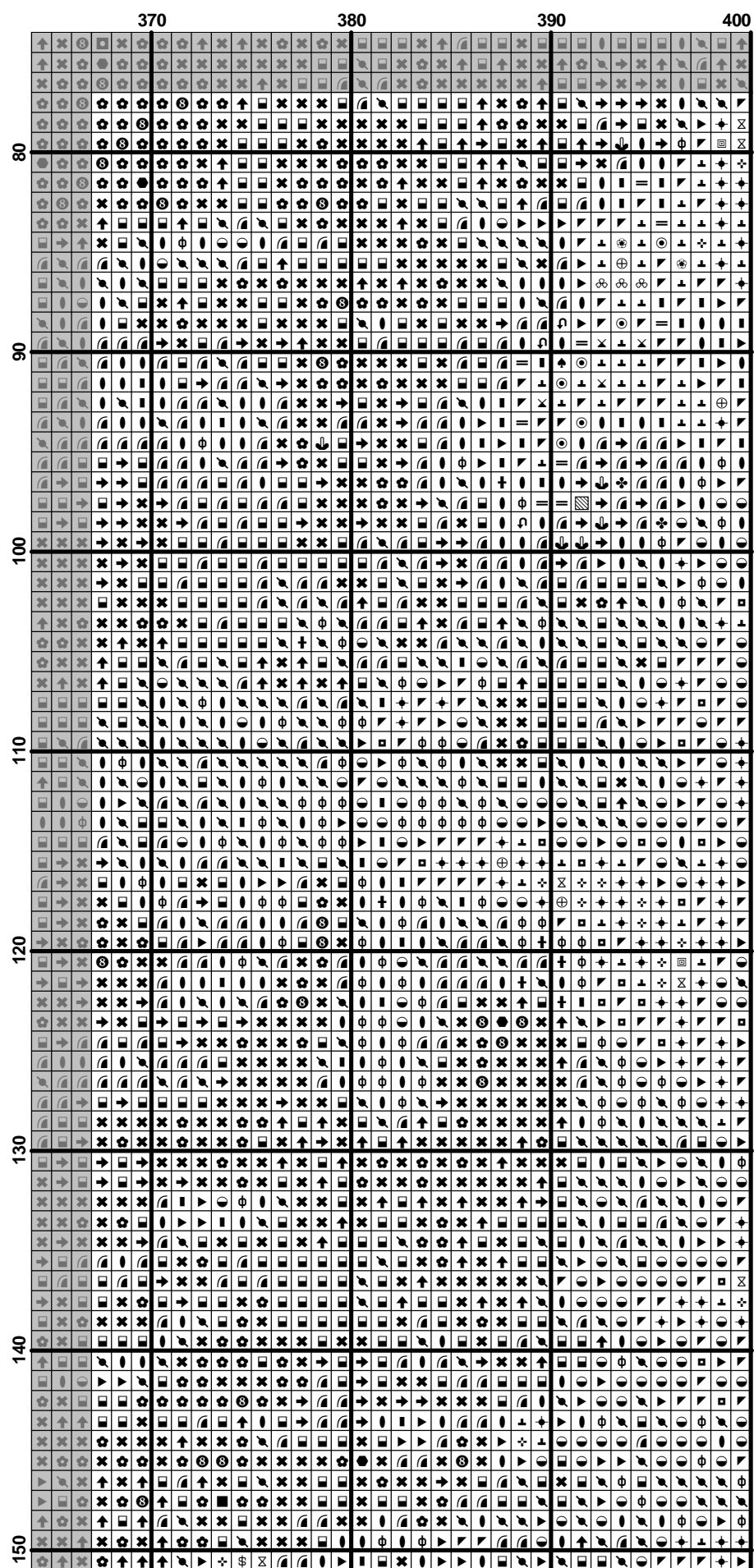


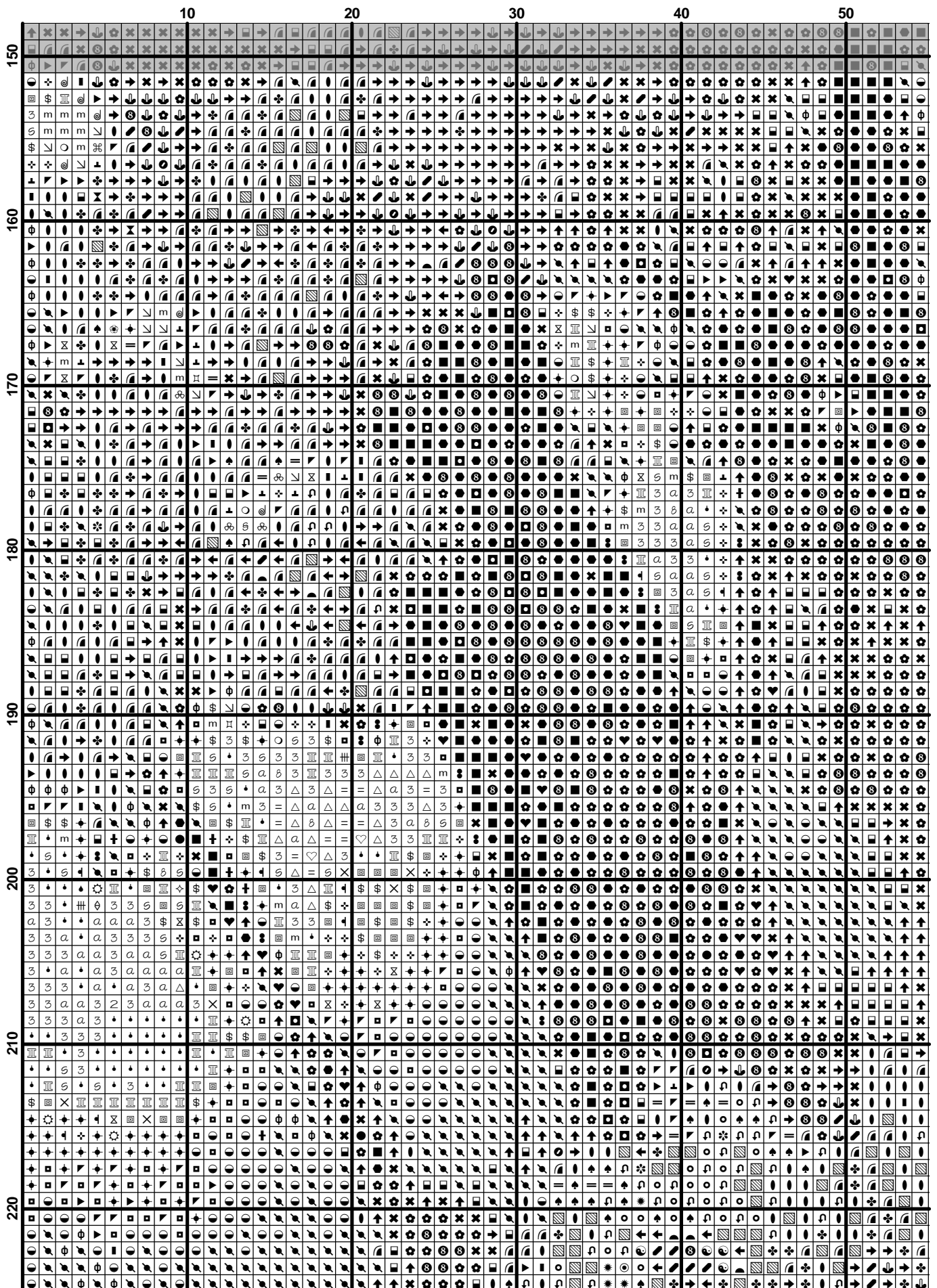


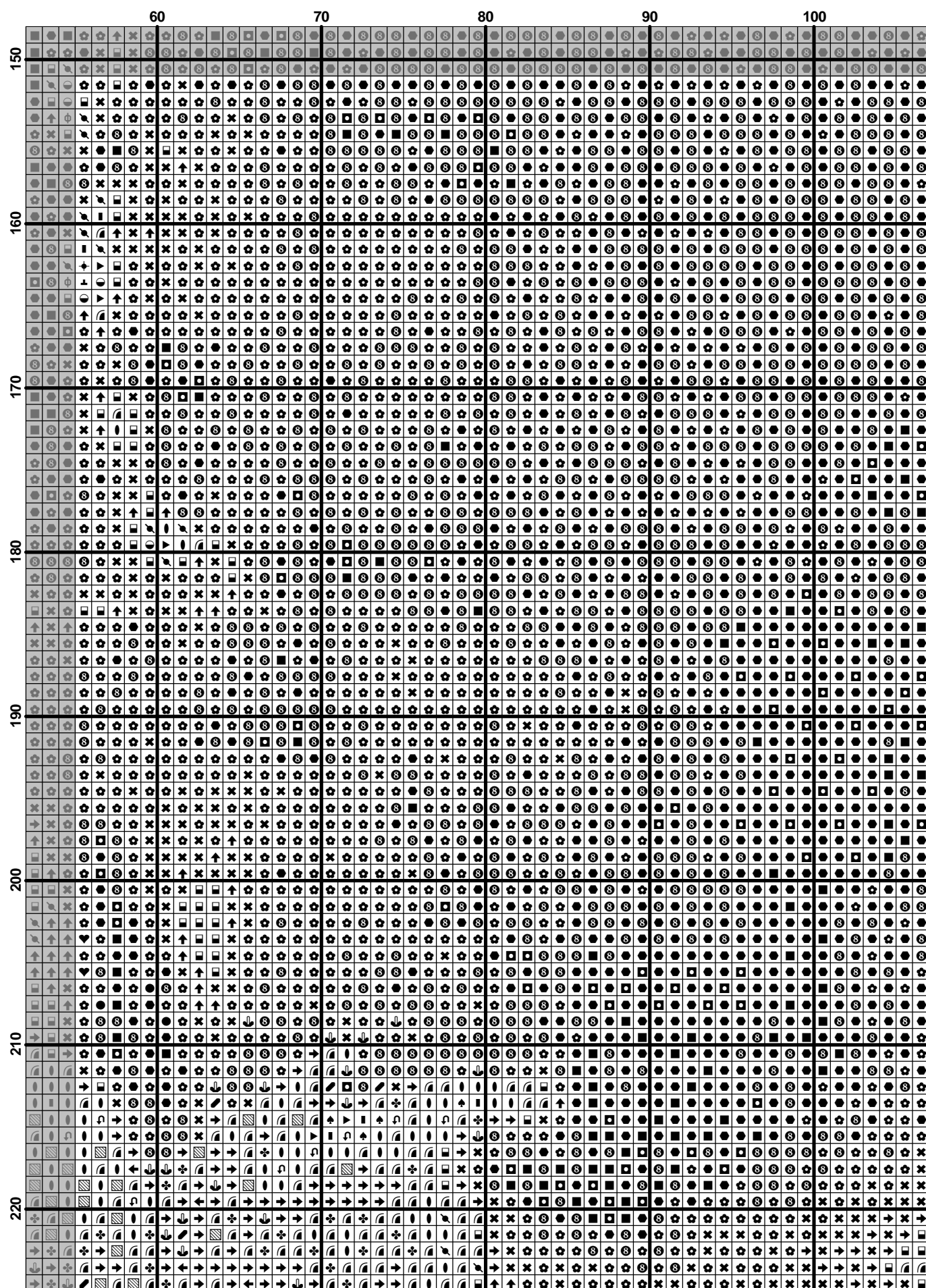


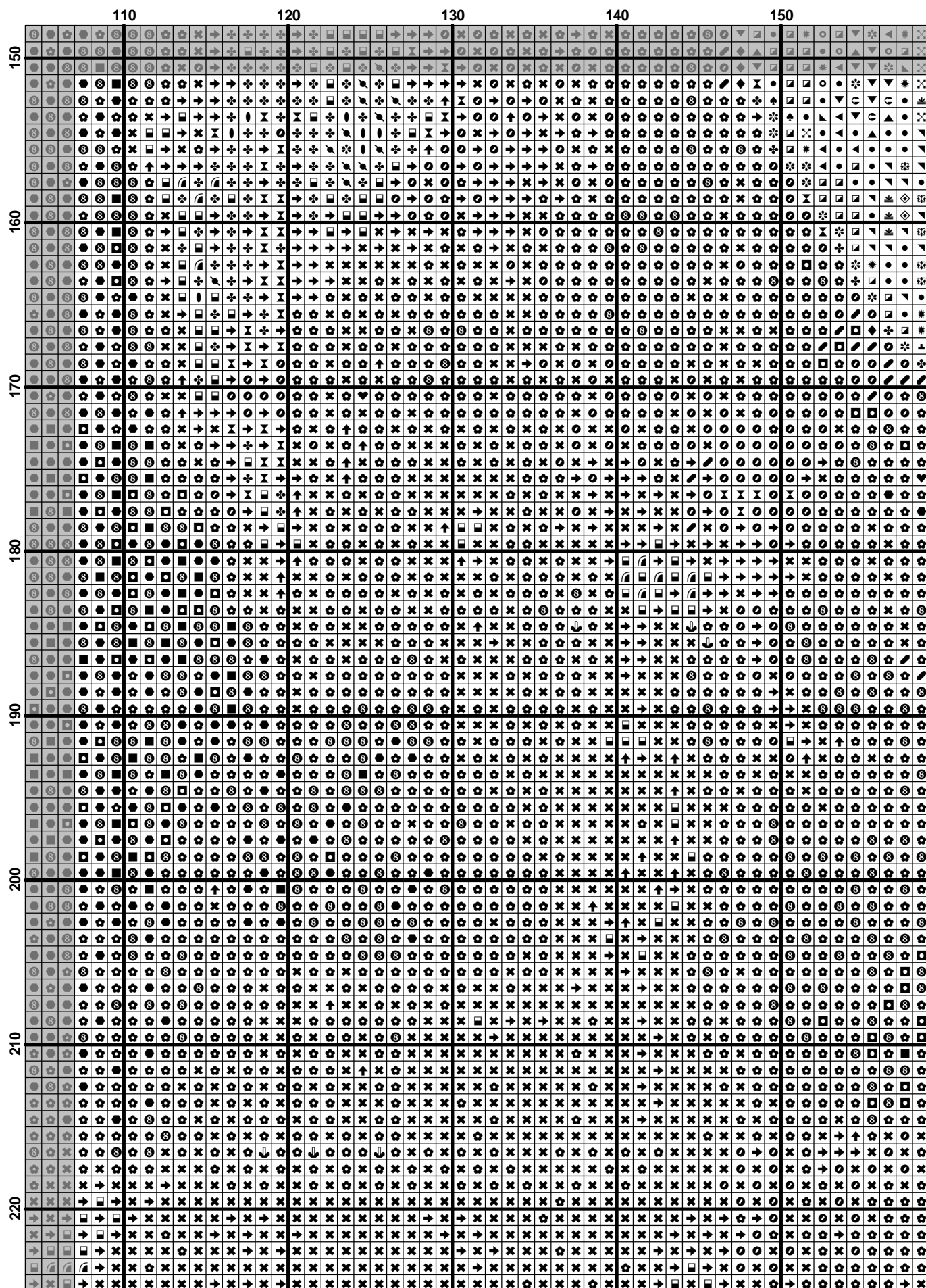


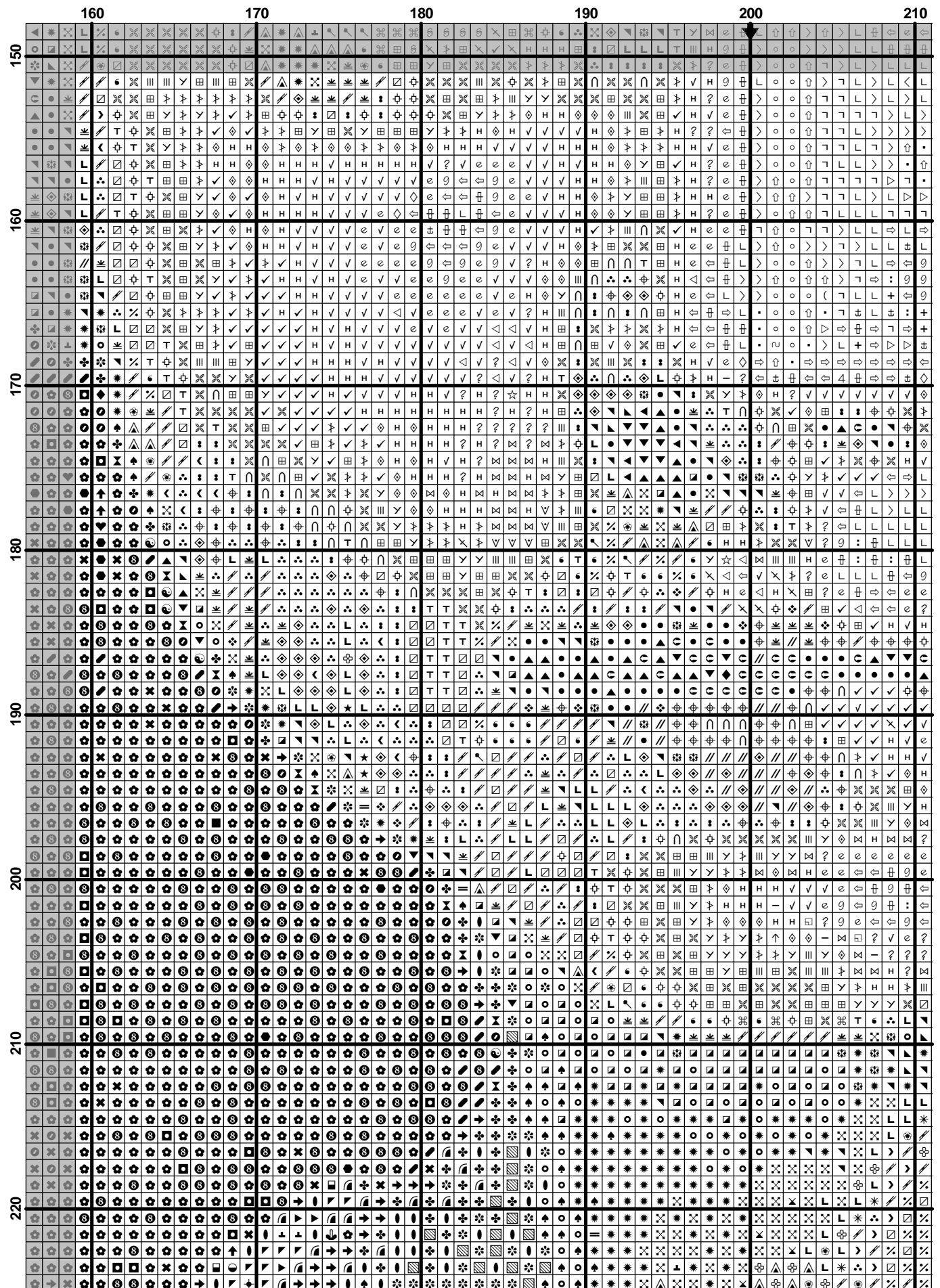




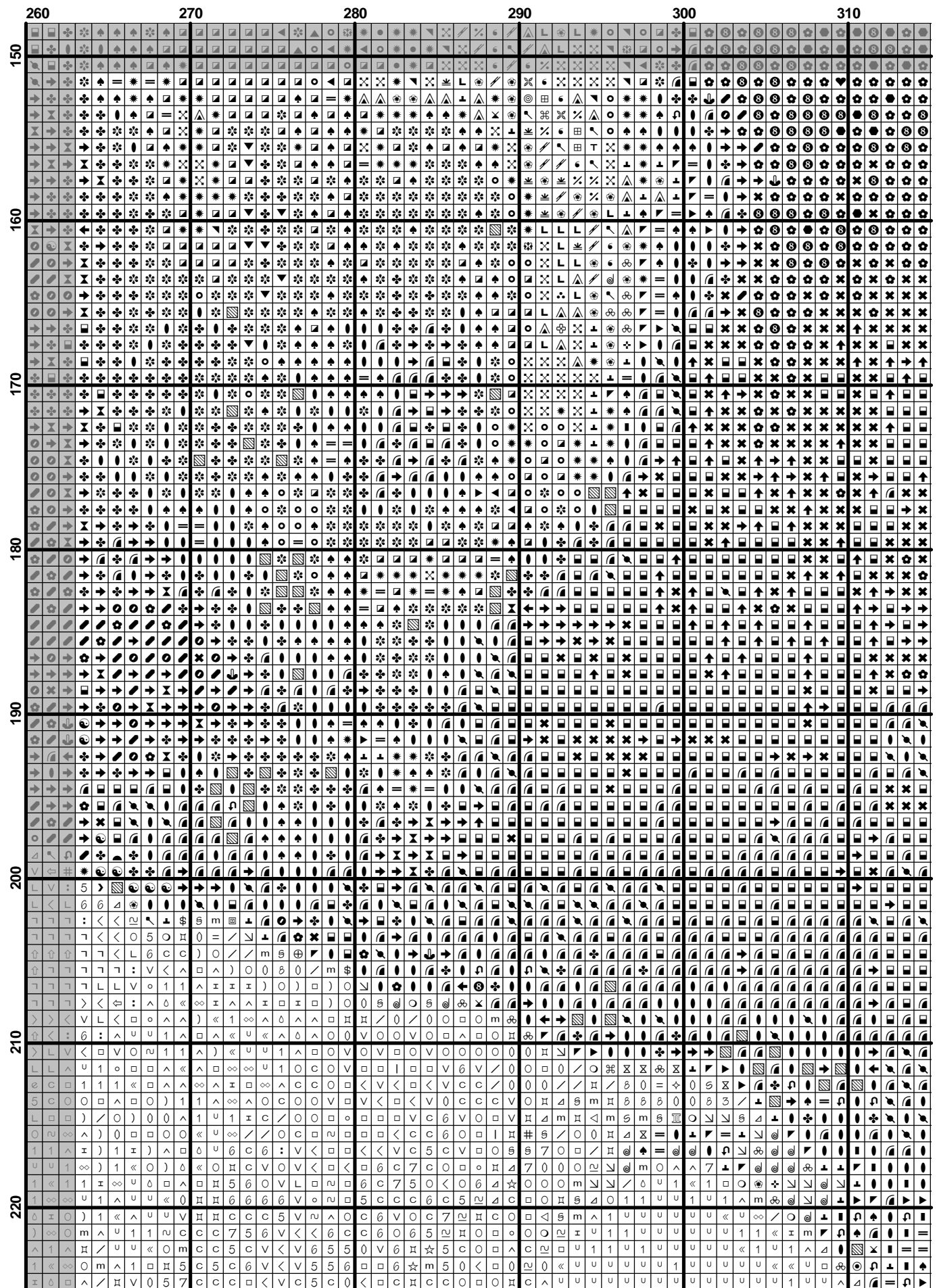


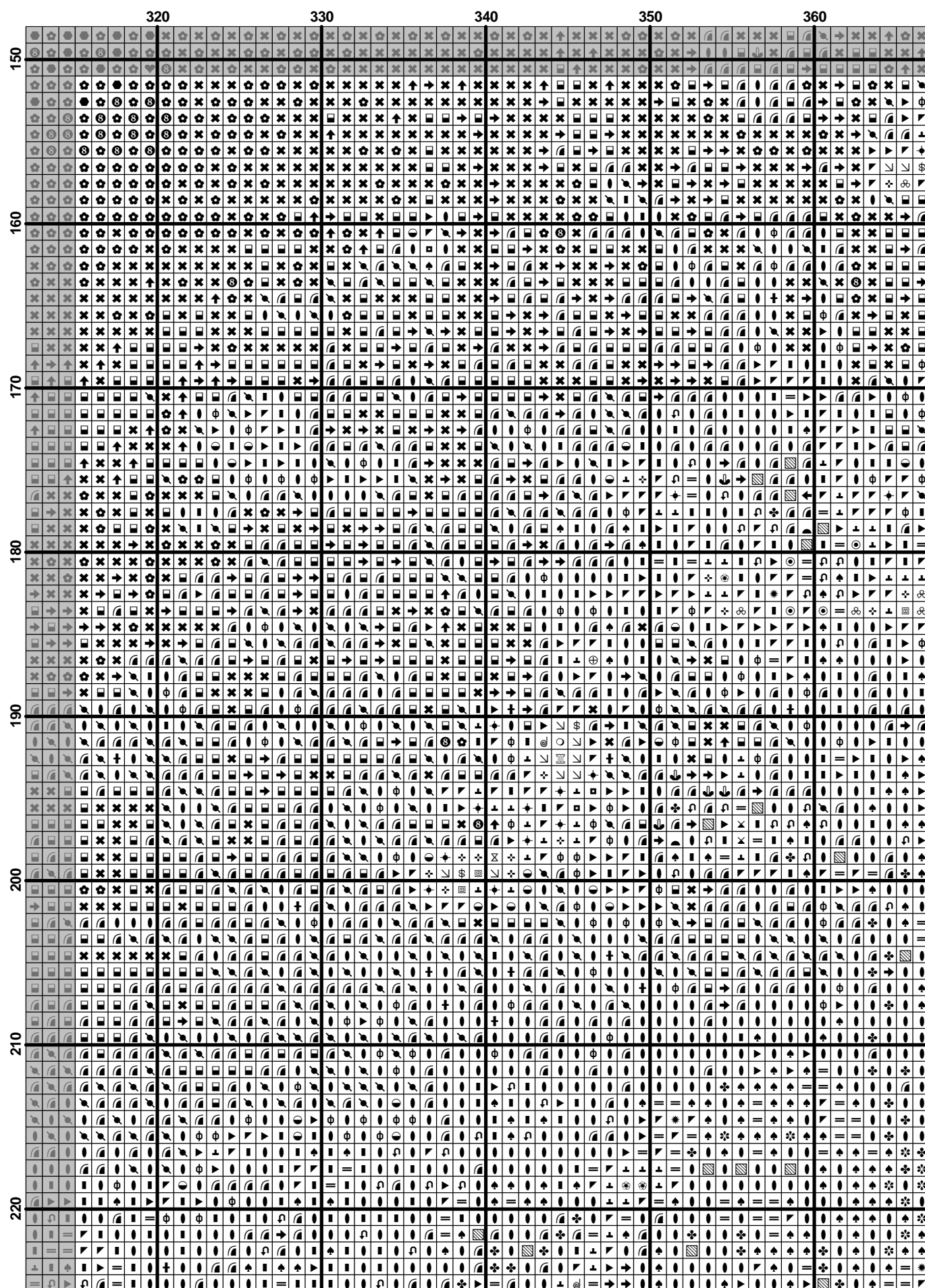


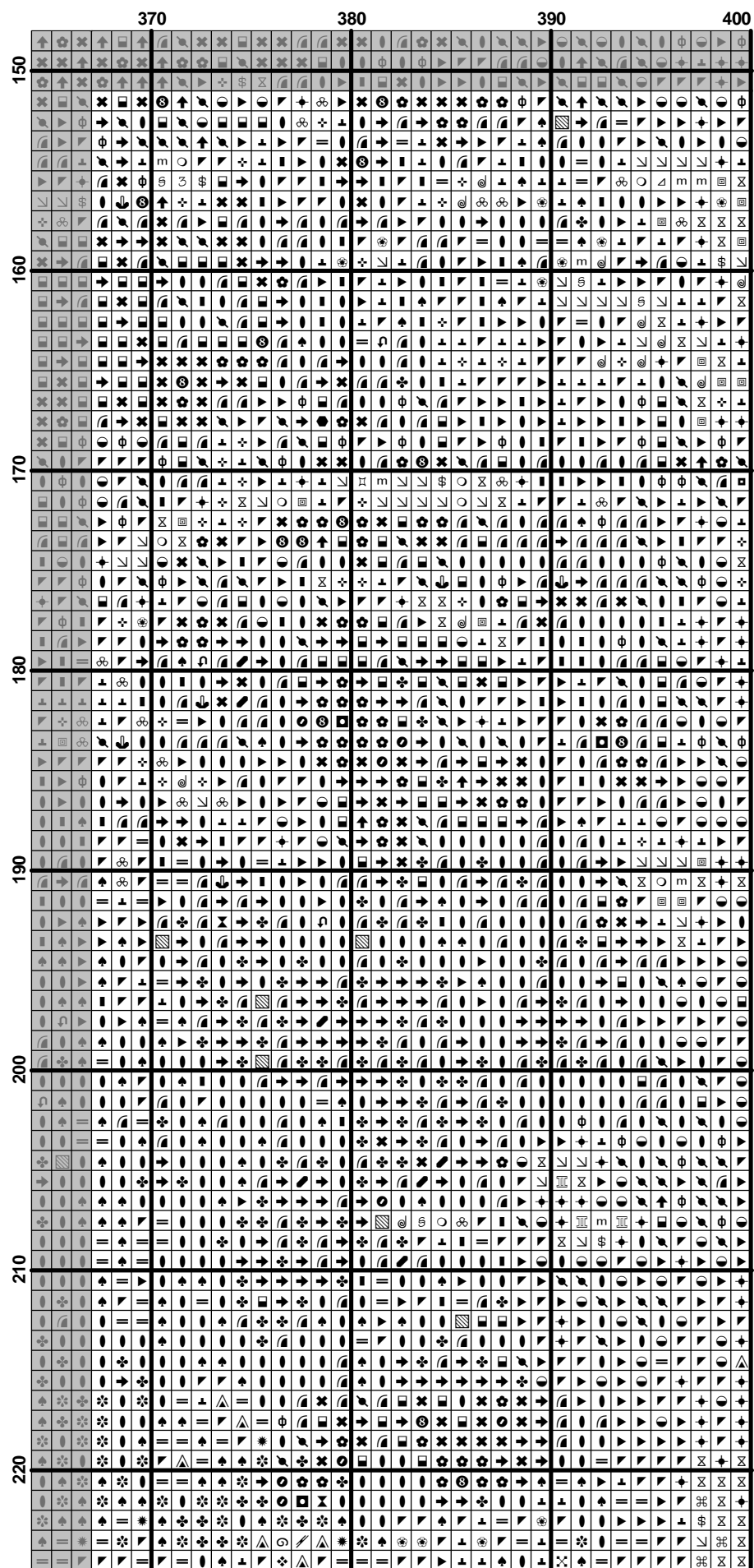


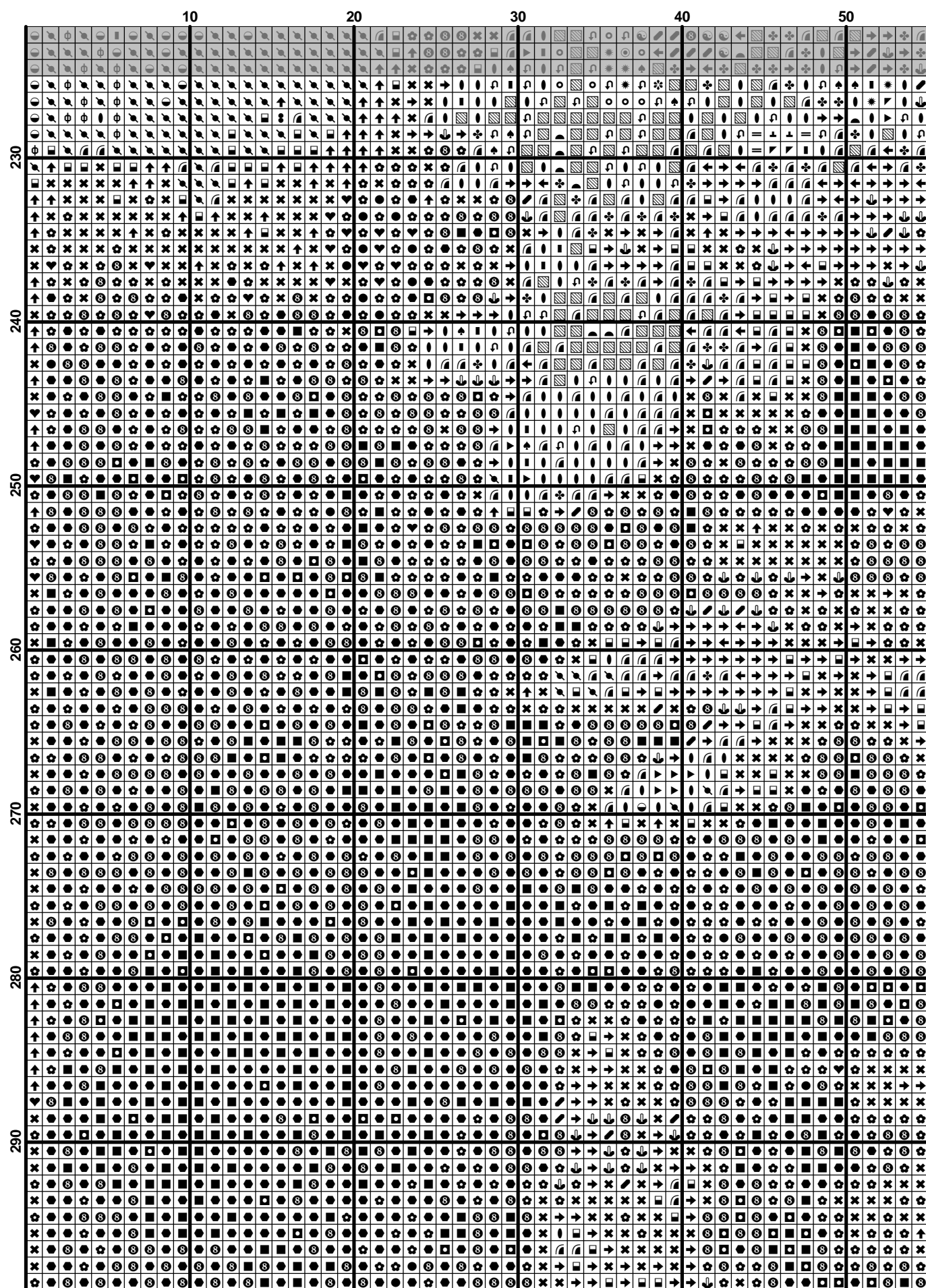


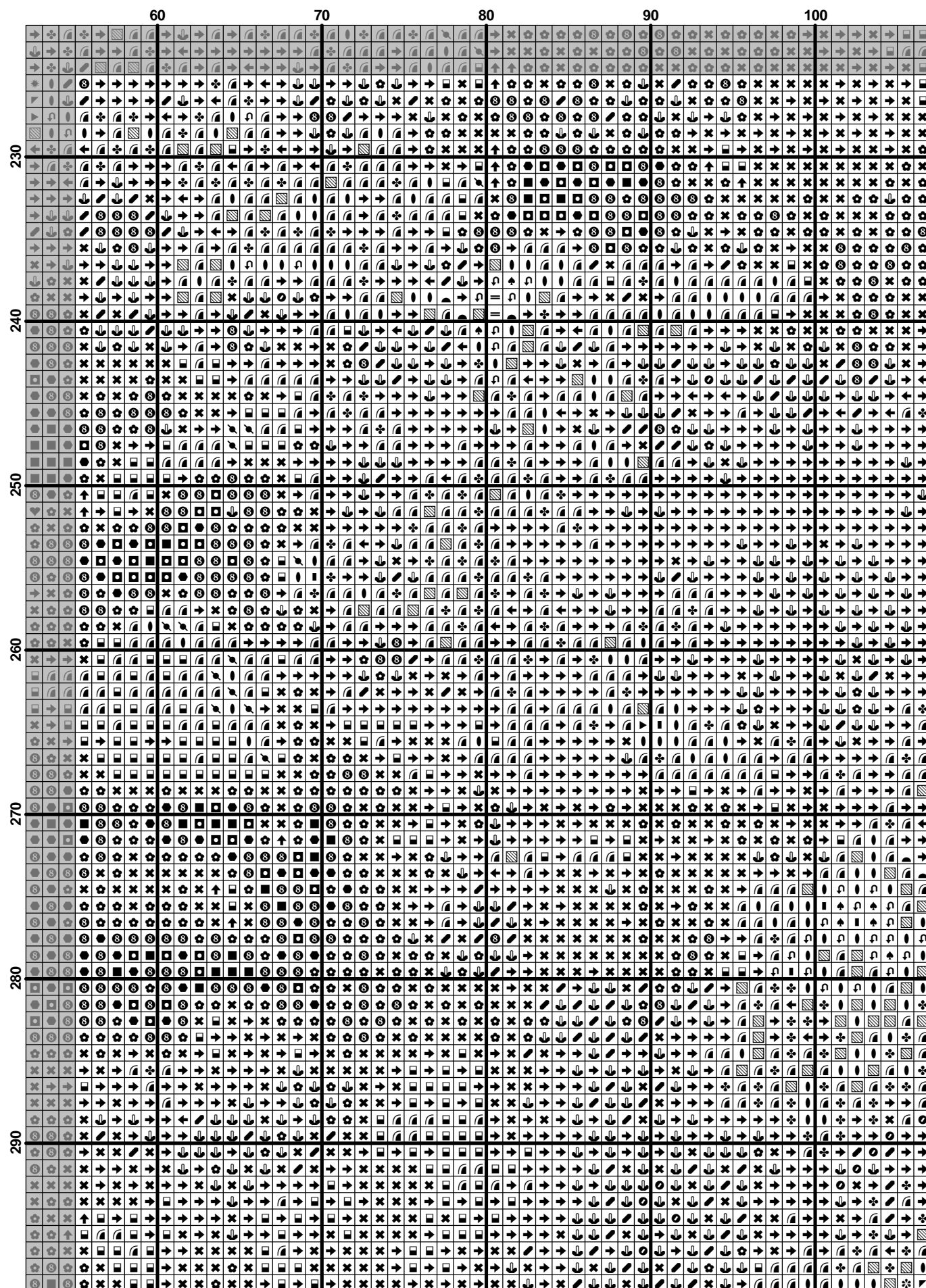
	210	220	230	240	250	260
150
160
170
180
190
200
210
220



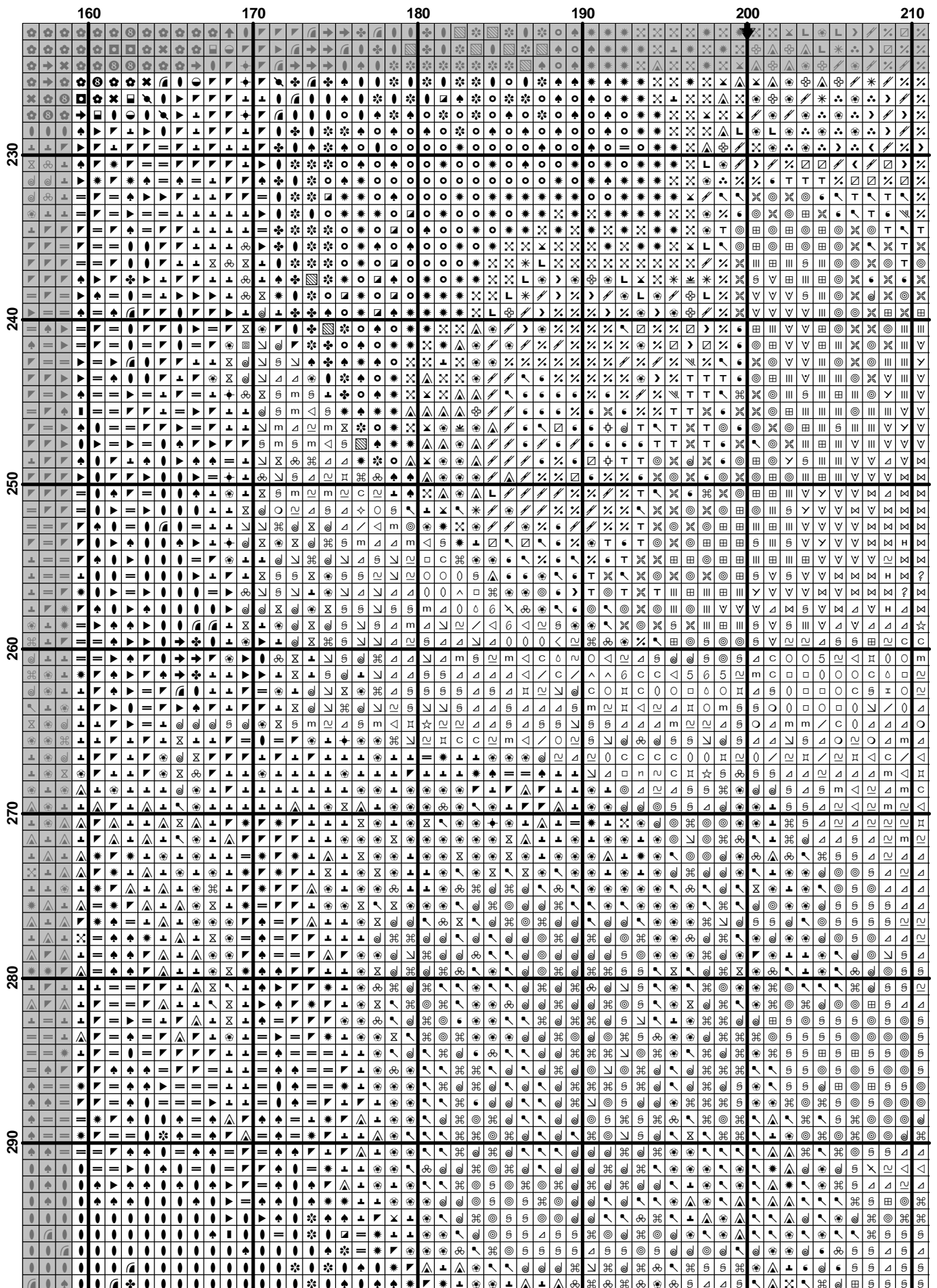








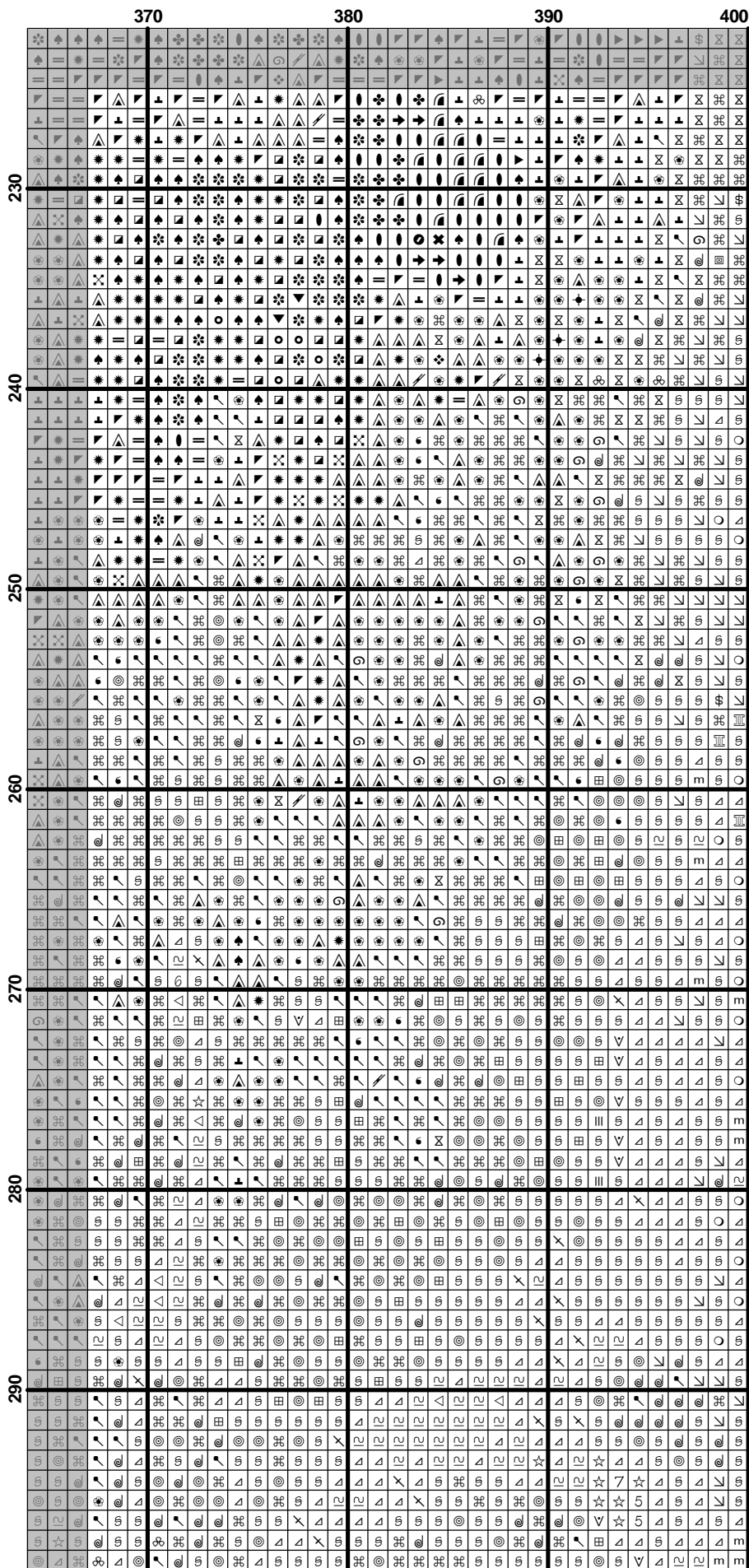
$$(35) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

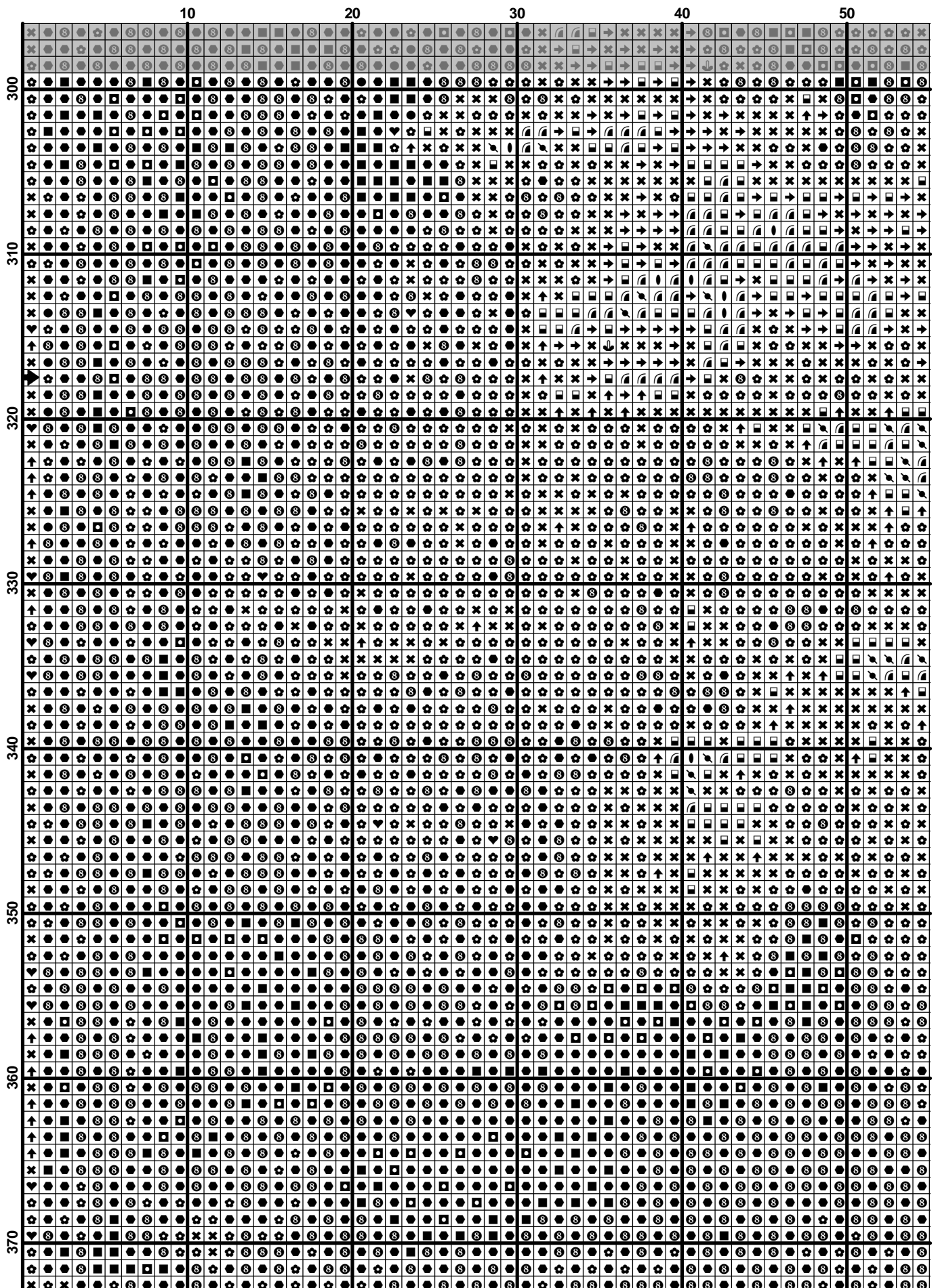


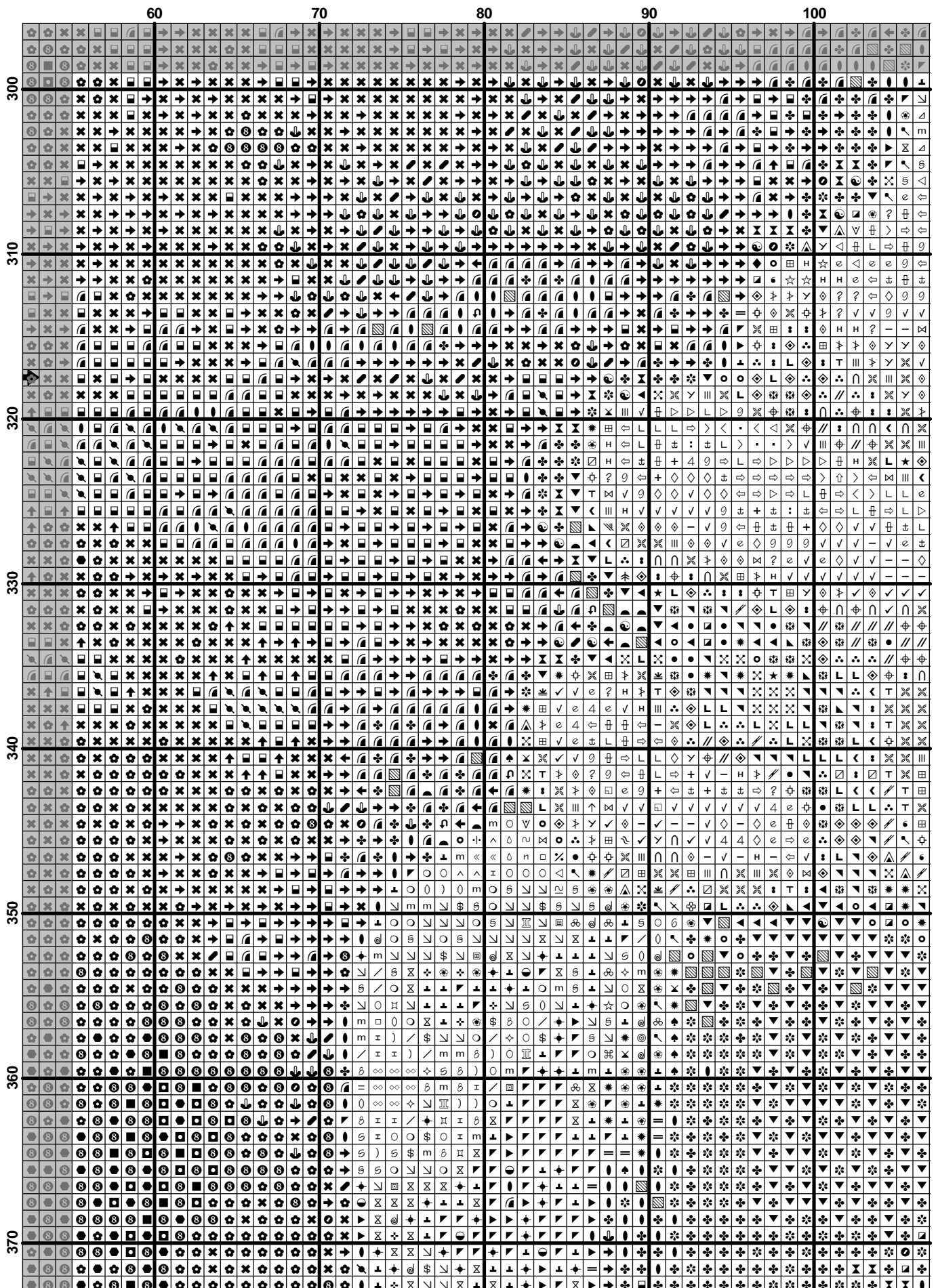
$$(37) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (38)$$

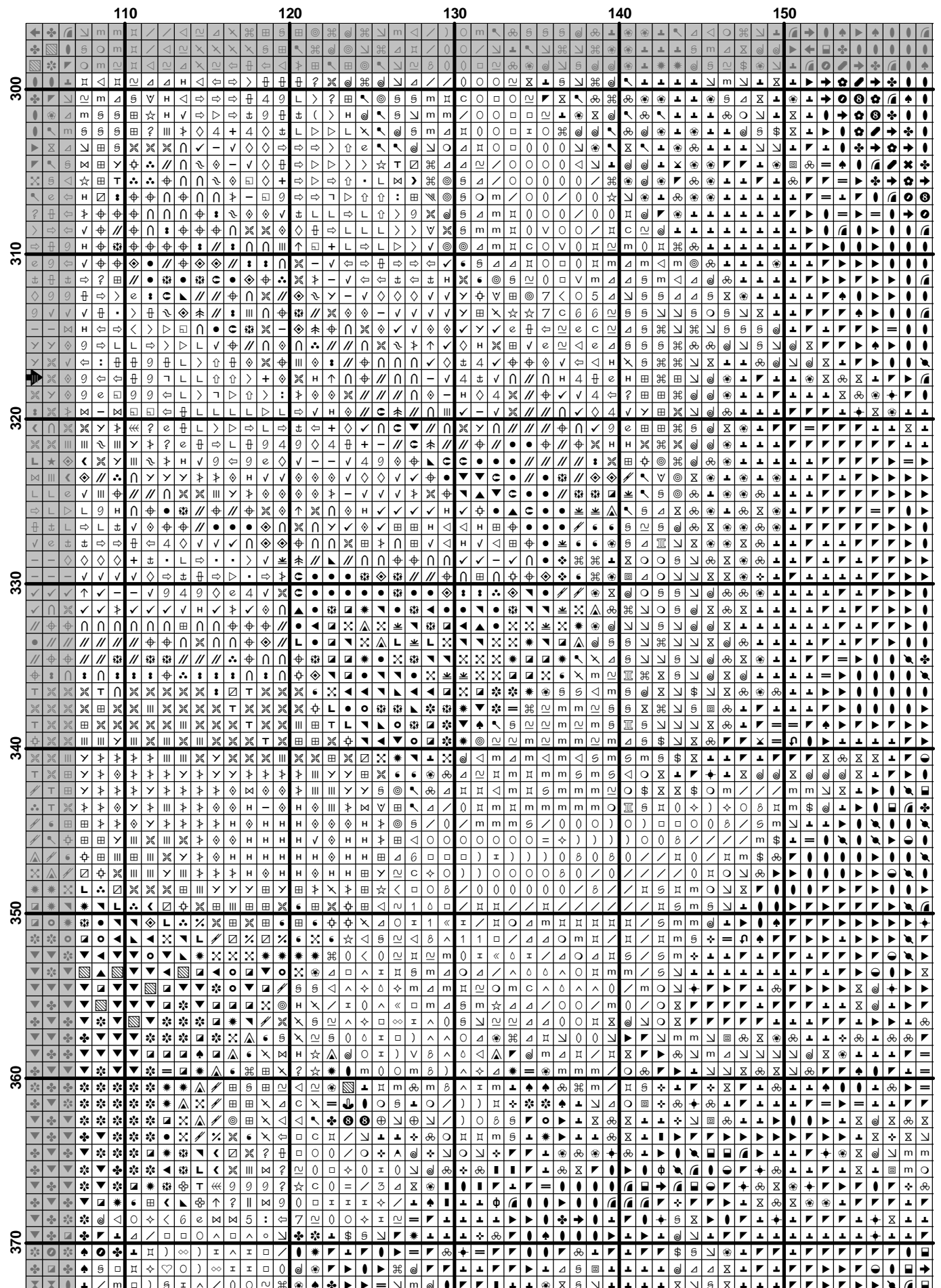
[illegible]

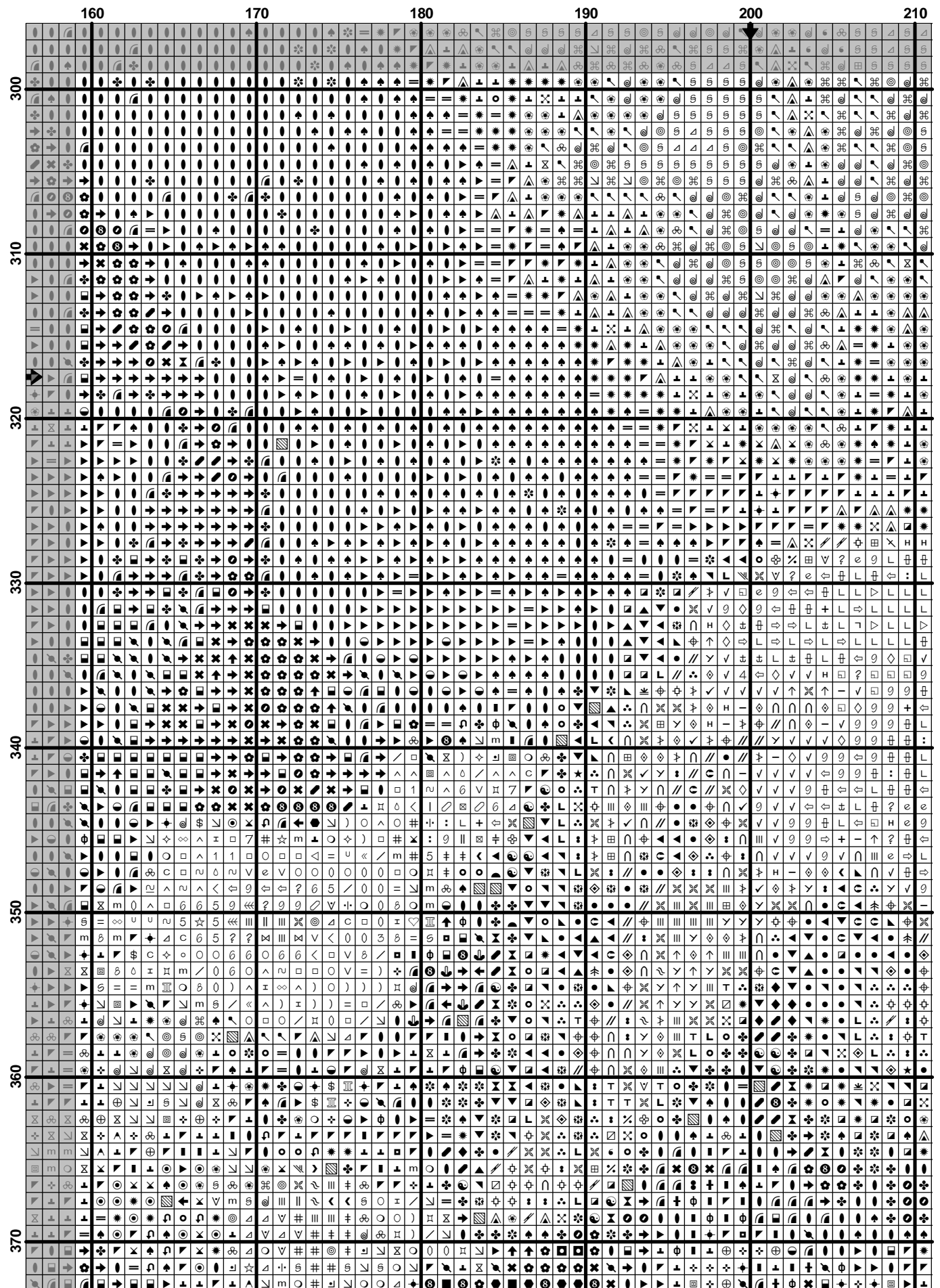
[illegible]

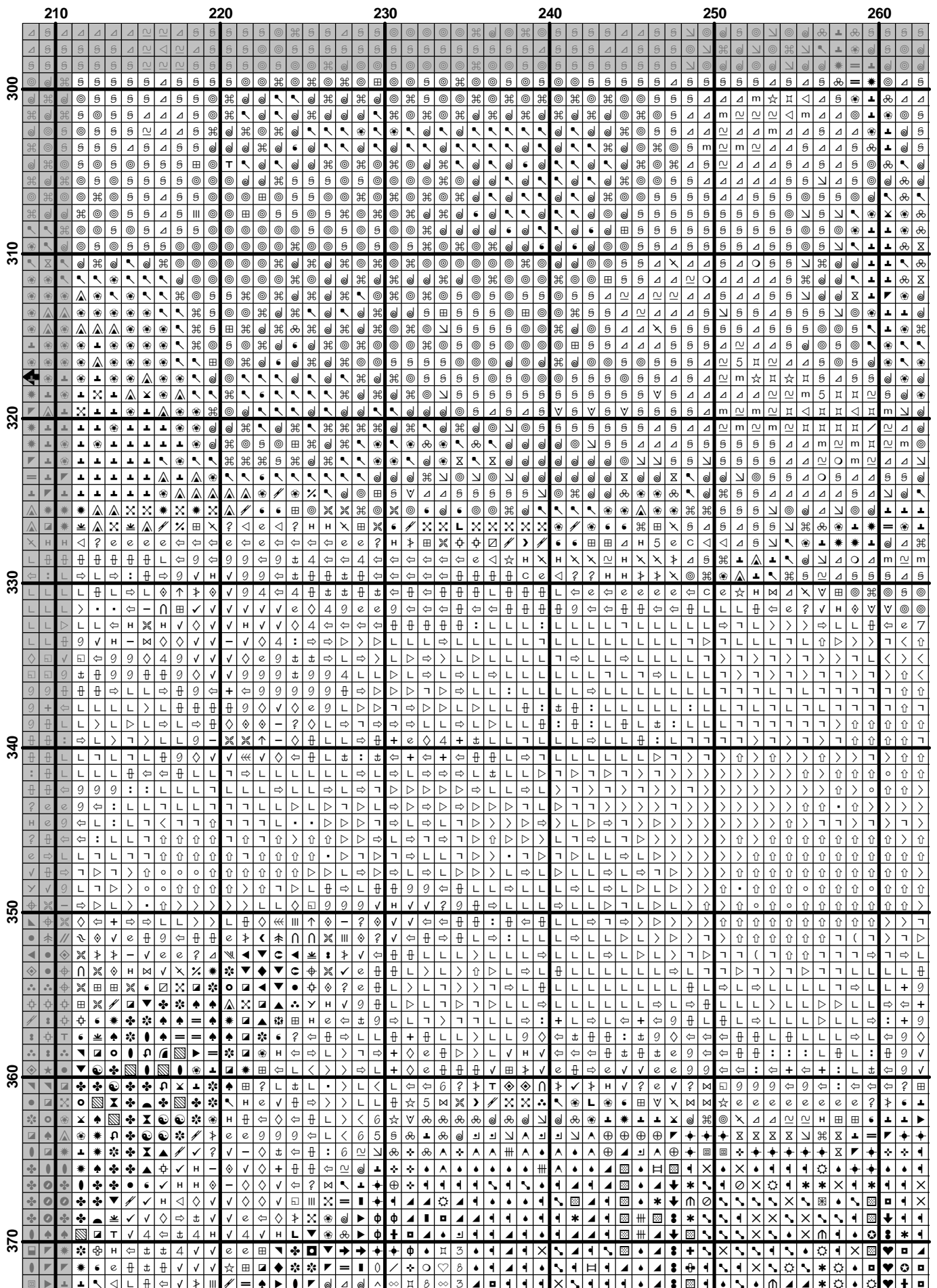








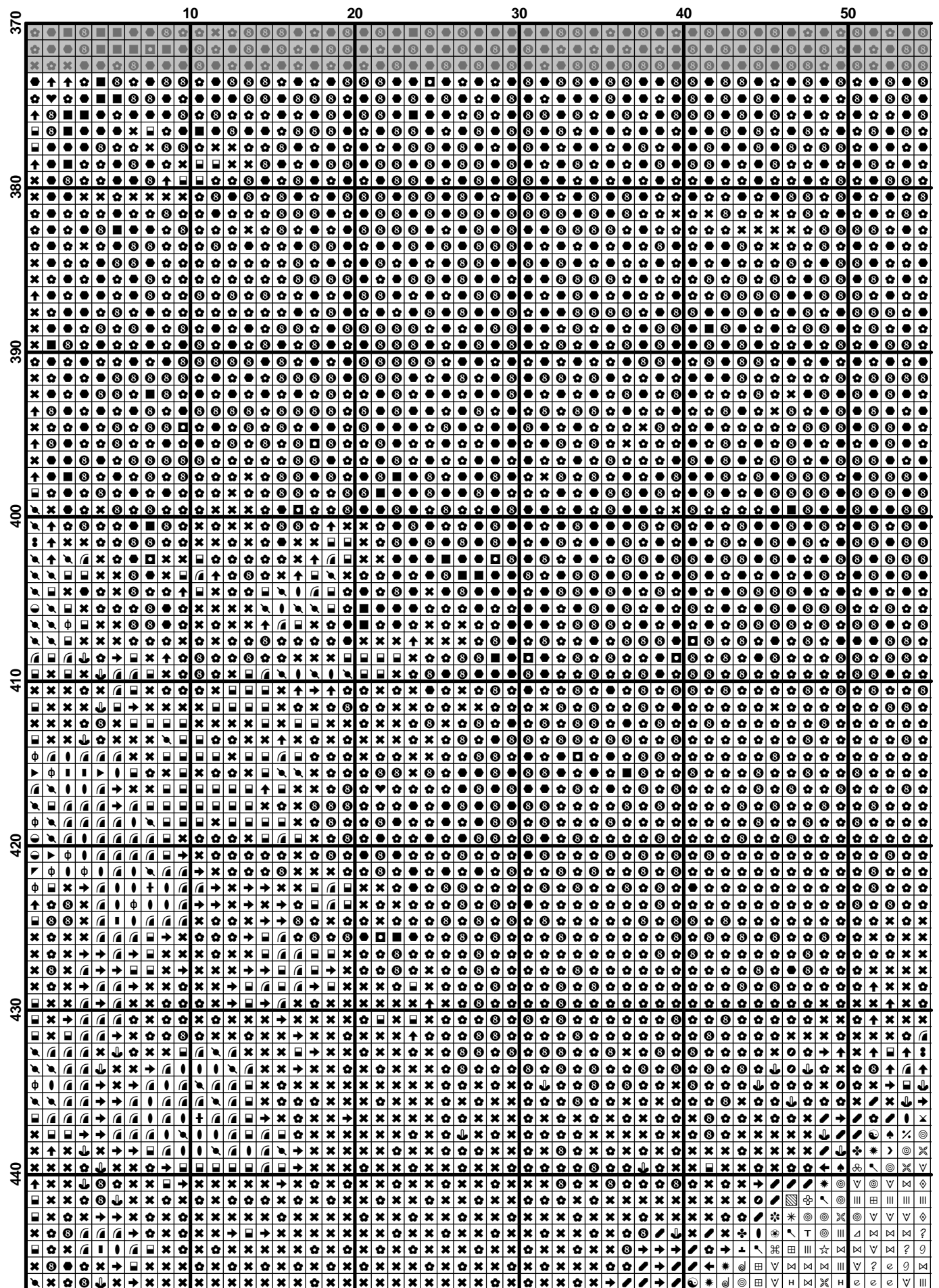




(47)

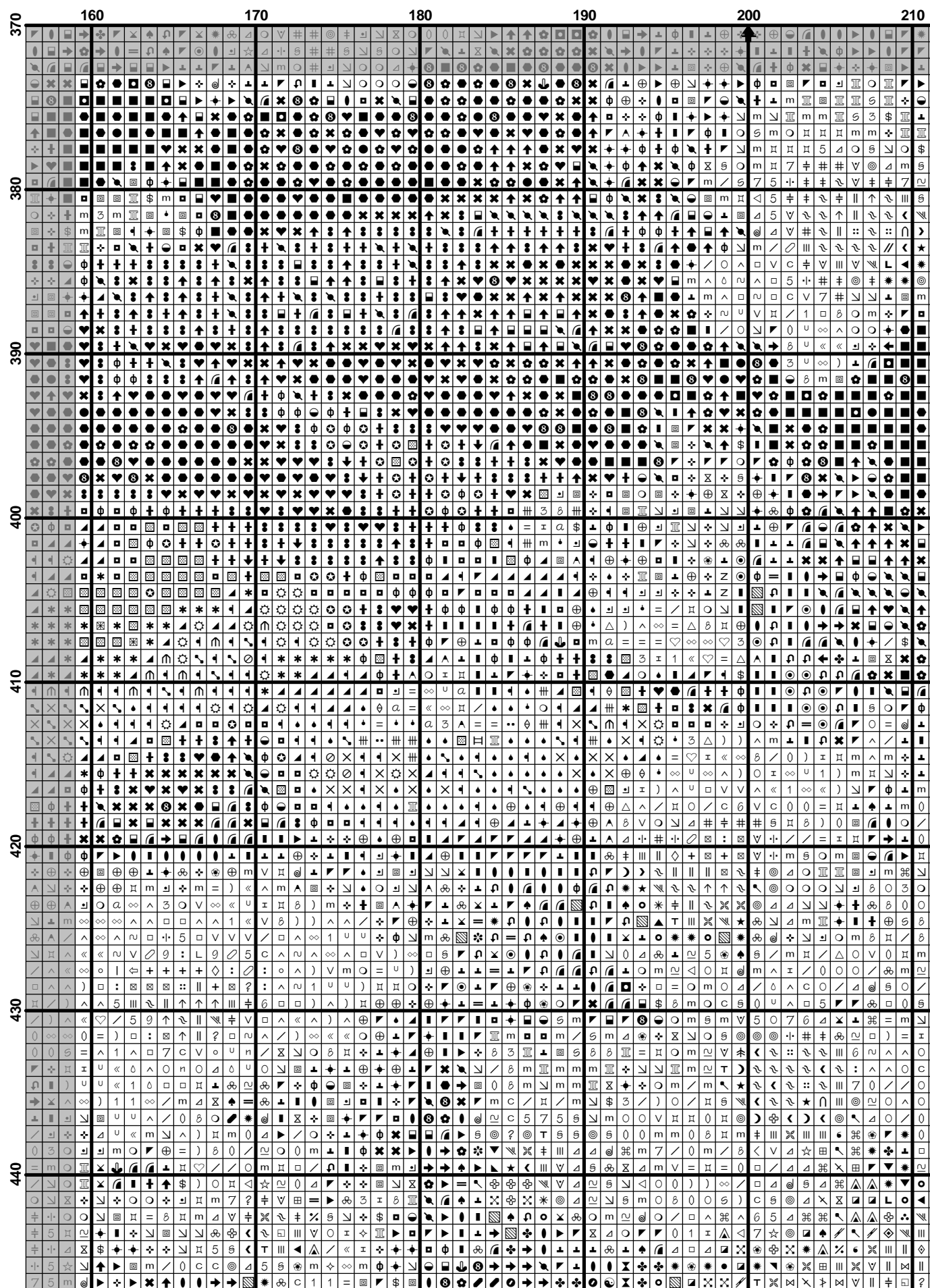
[illegible]

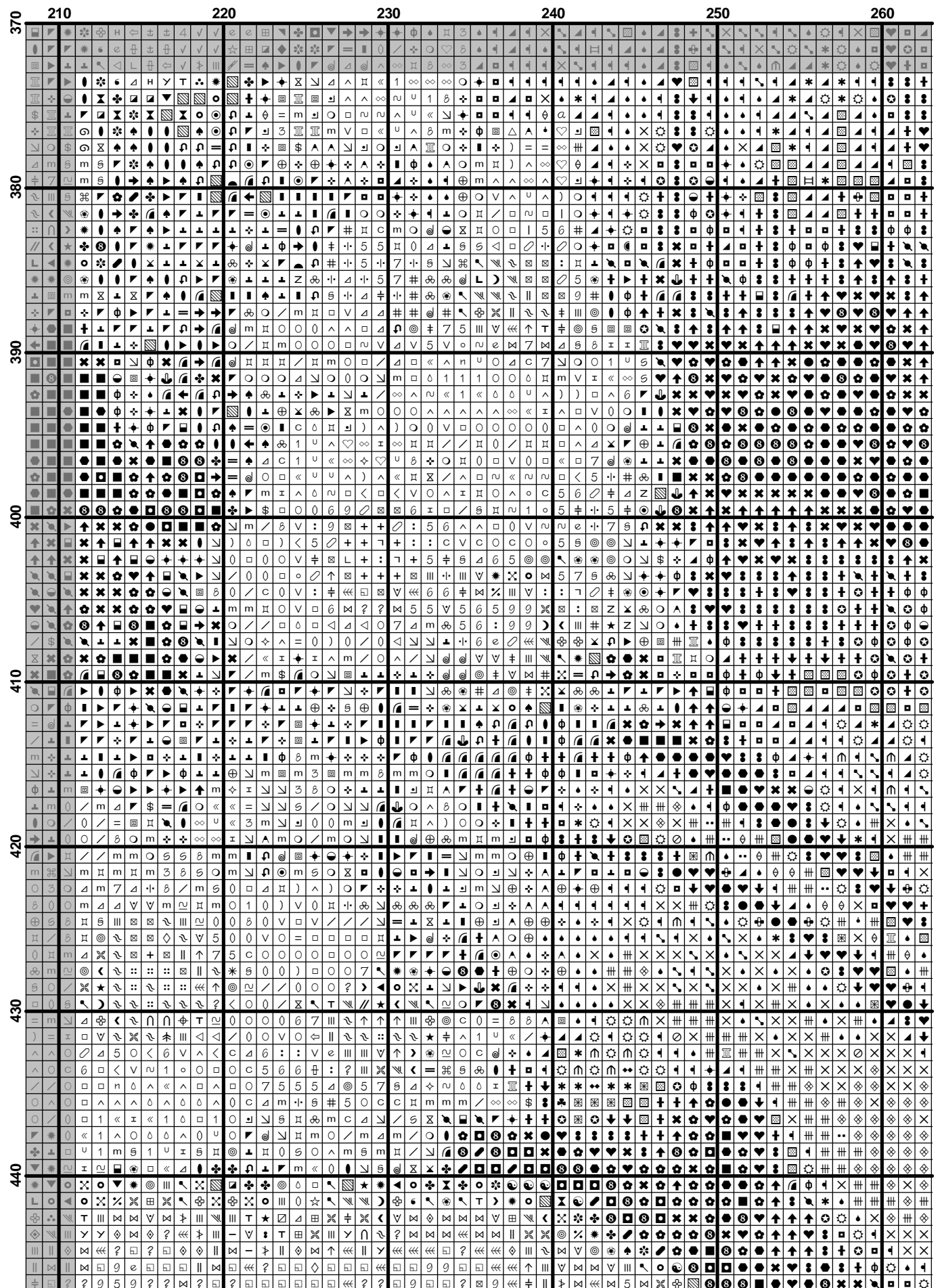
(48)

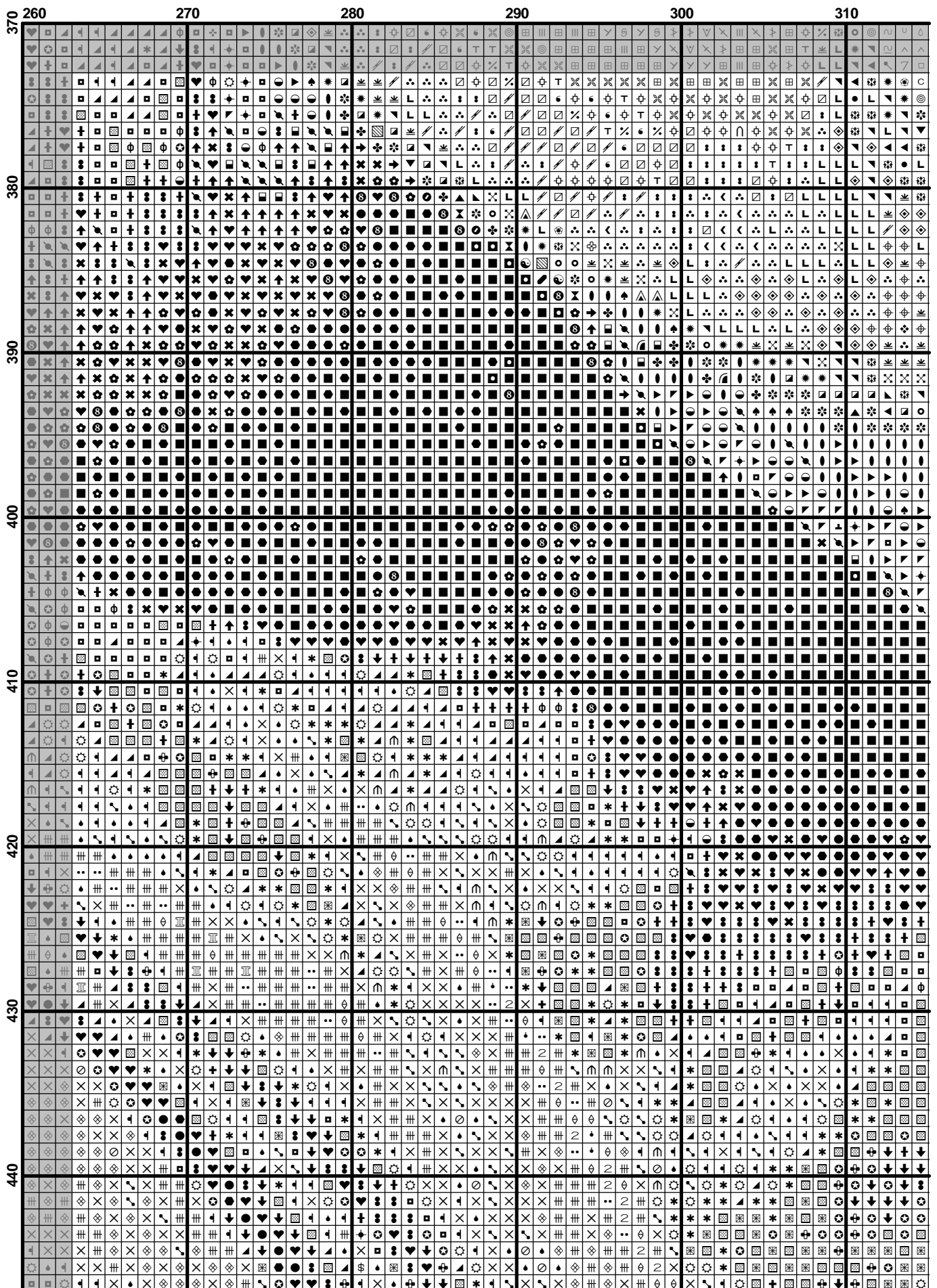


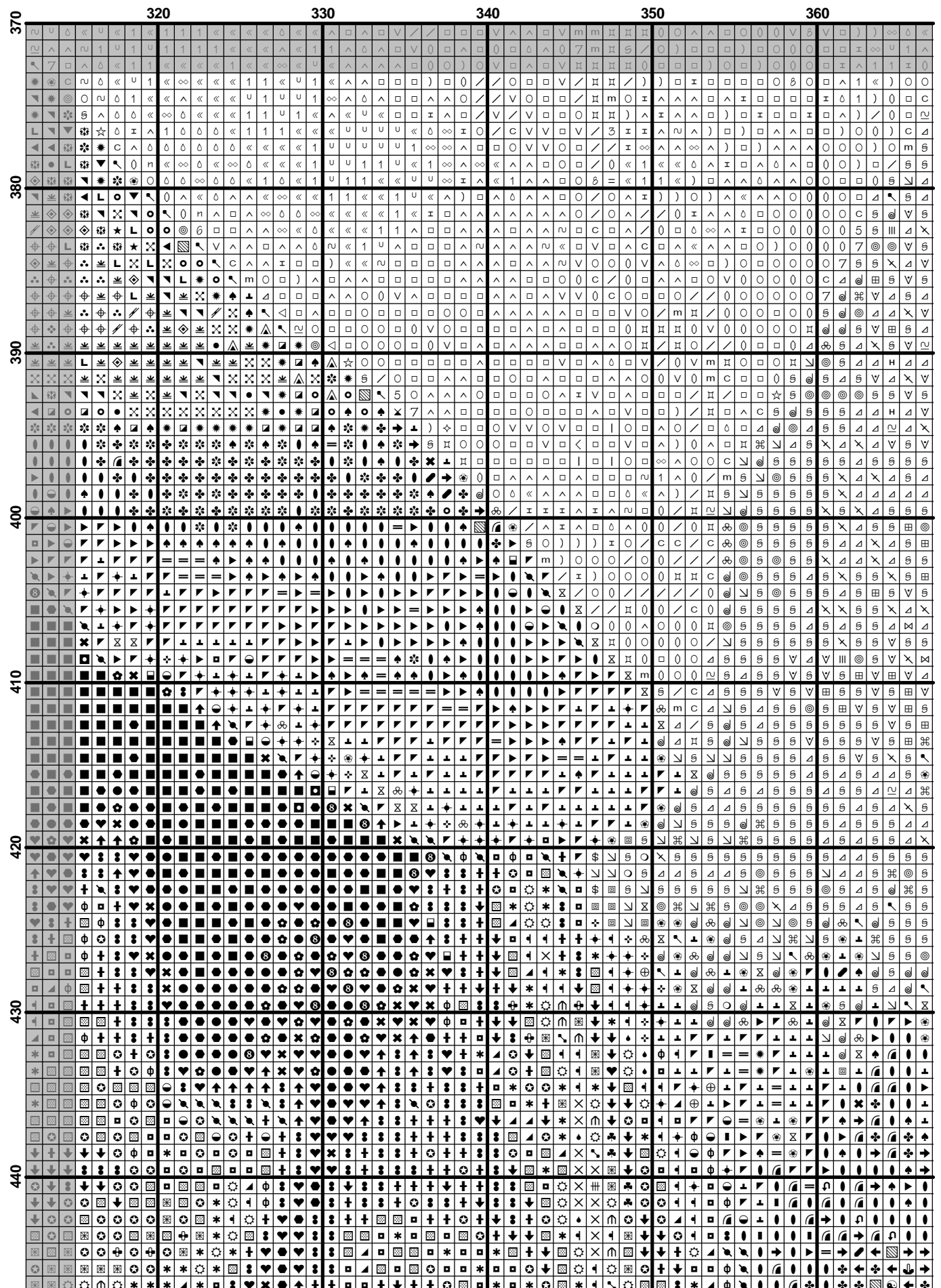
	60	70	80	90	100
370	⬆	⬆	⬆	⬆	⬆
380	⬆	⬆	⬆	⬆	⬆
390	⬆	⬆	⬆	⬆	⬆
400	⬆	⬆	⬆	⬆	⬆
410	⬆	⬆	⬆	⬆	⬆
420	⬆	⬆	⬆	⬆	⬆
430	⬆	⬆	⬆	⬆	⬆
440	⬆	⬆	⬆	⬆	⬆

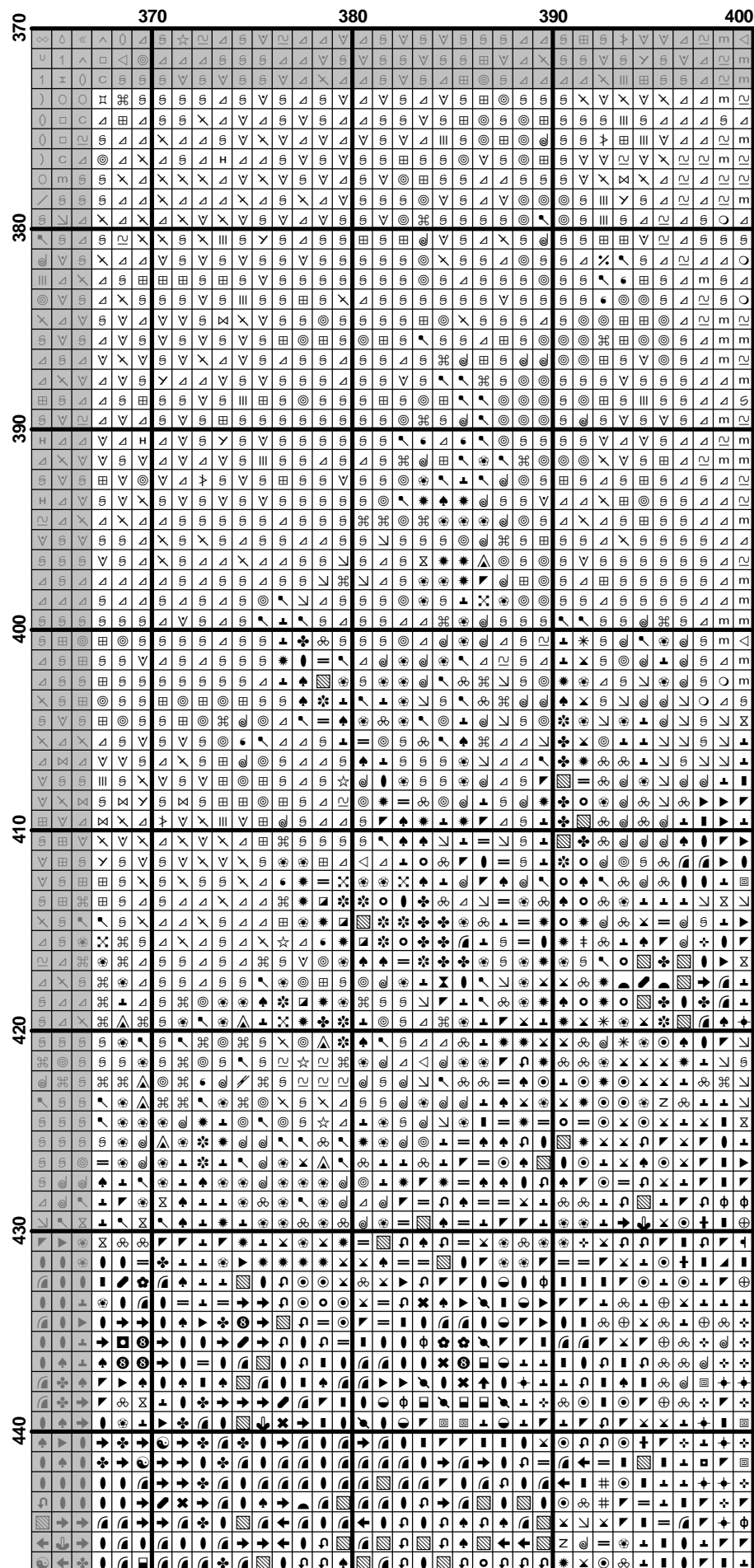
$$(51) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

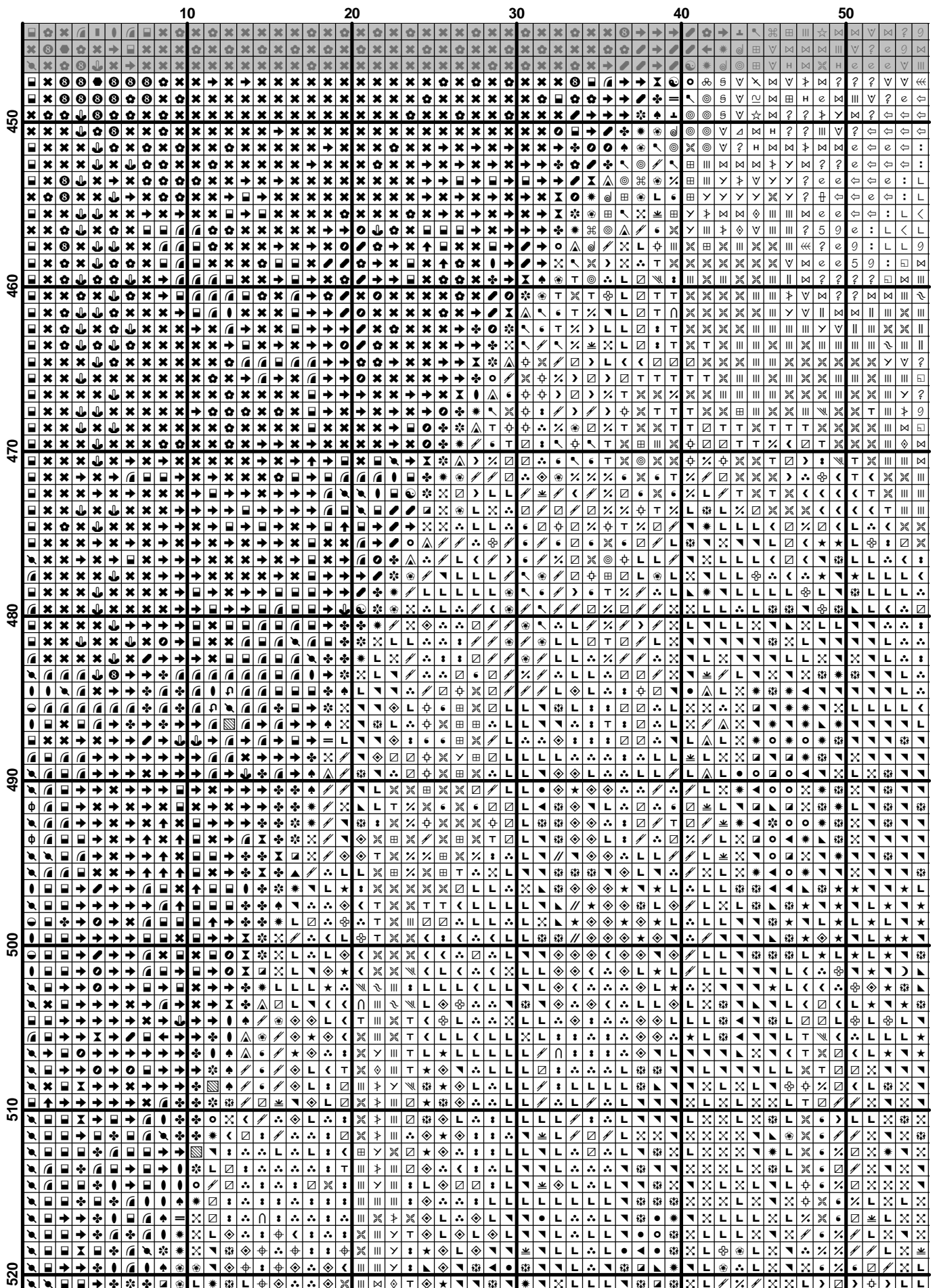










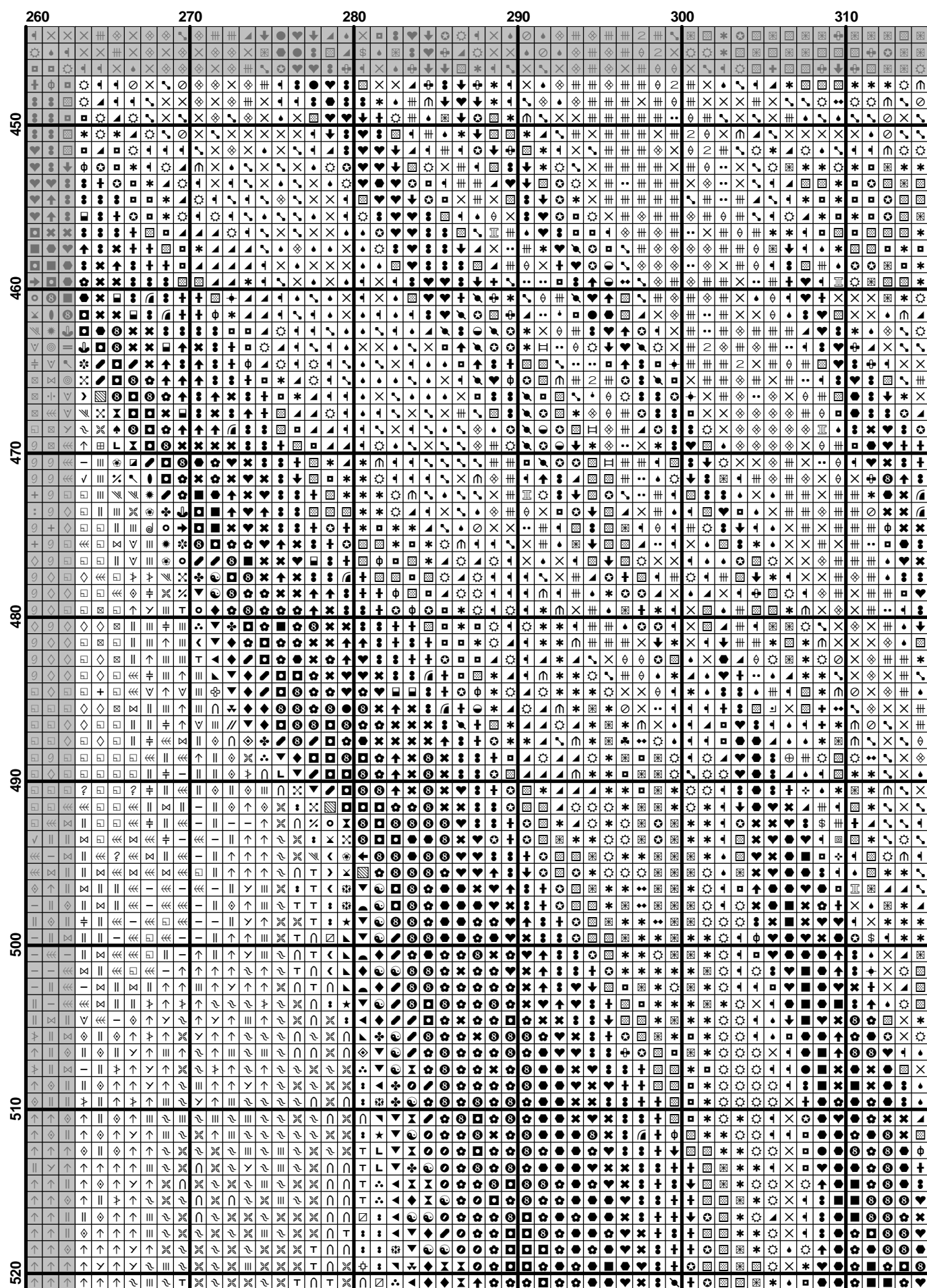


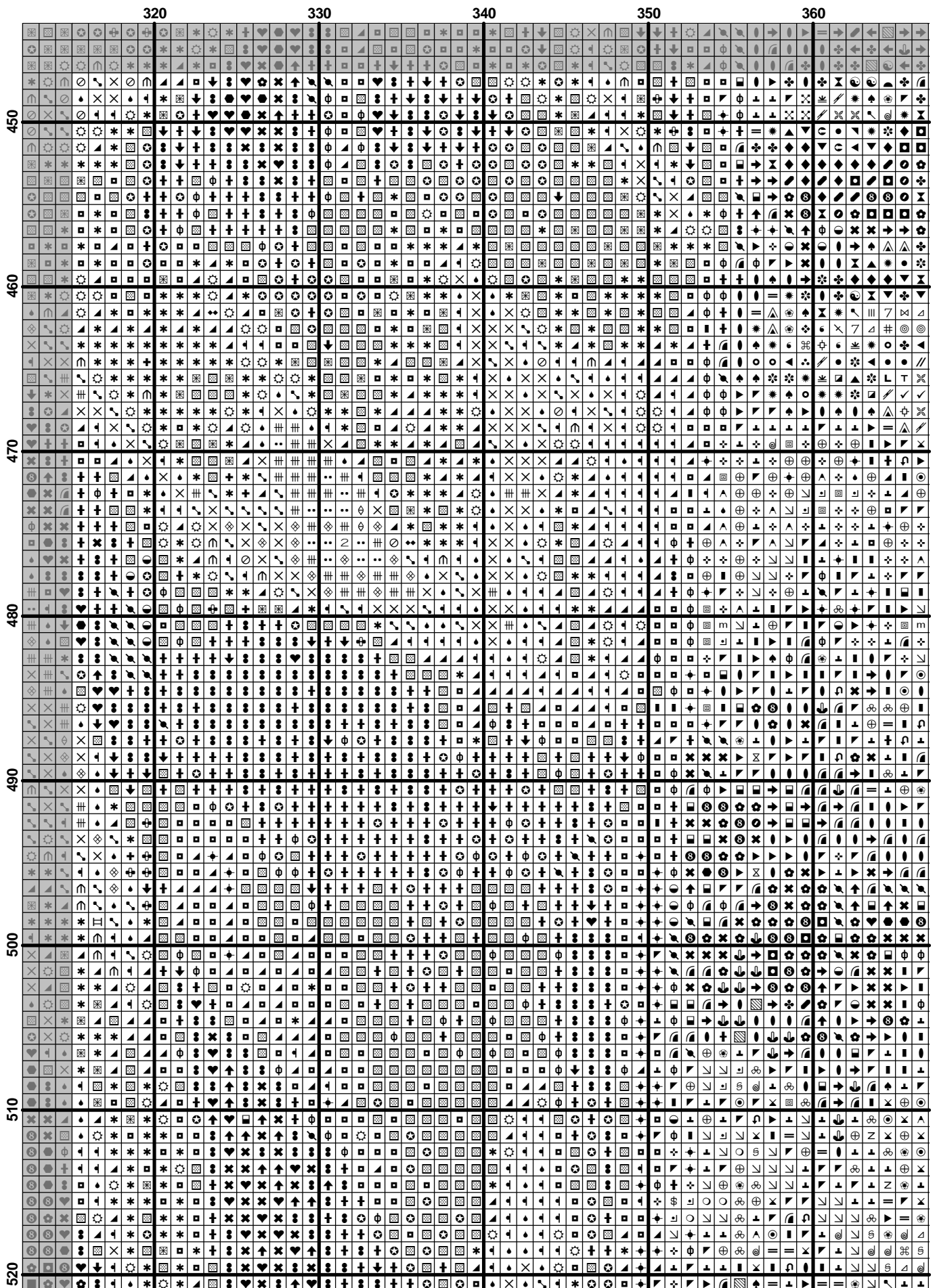
[illegible]

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

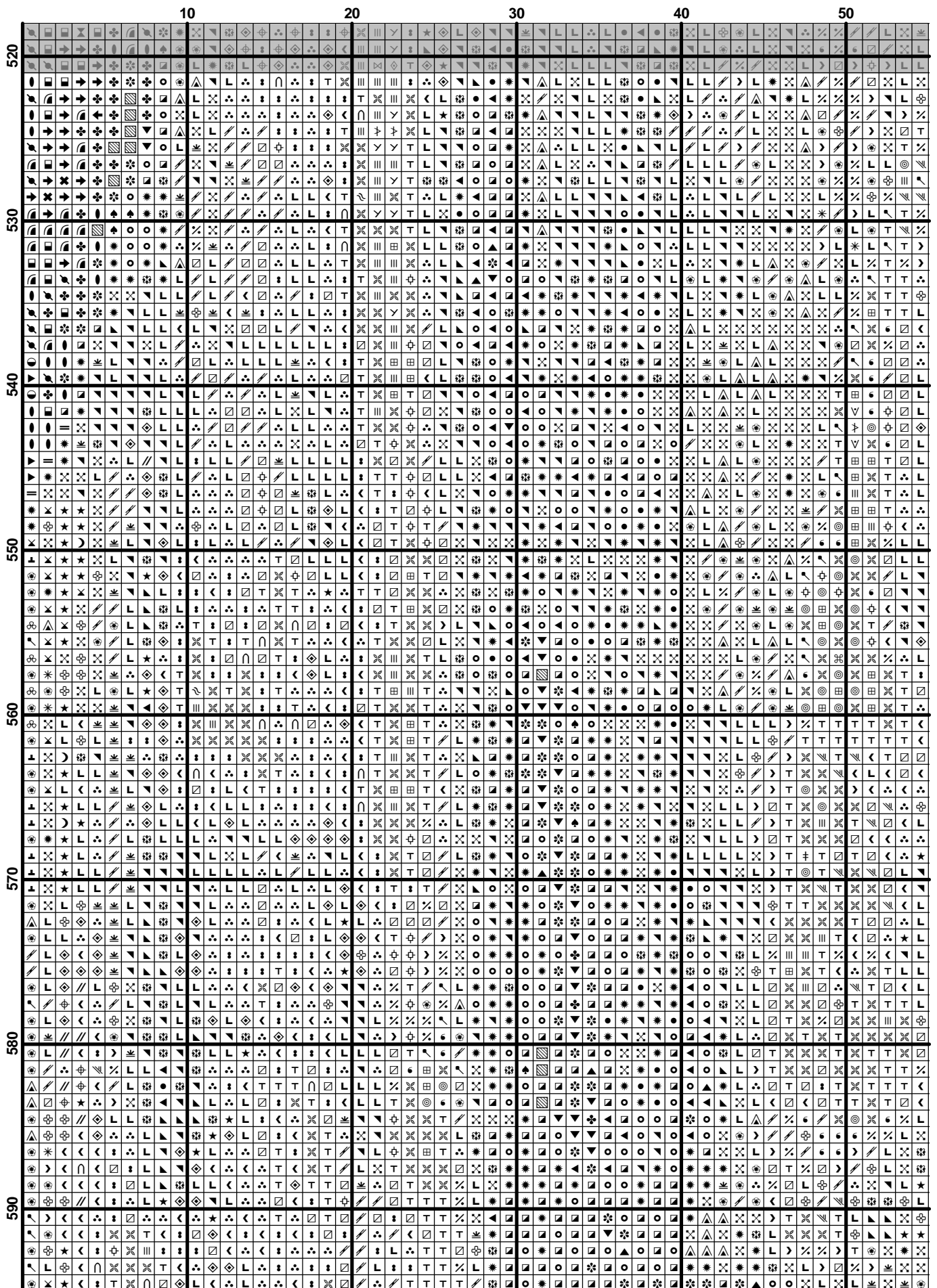
$$(60) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

	210	220	230	240	250	260
450
460
470
480
490
500
510
520

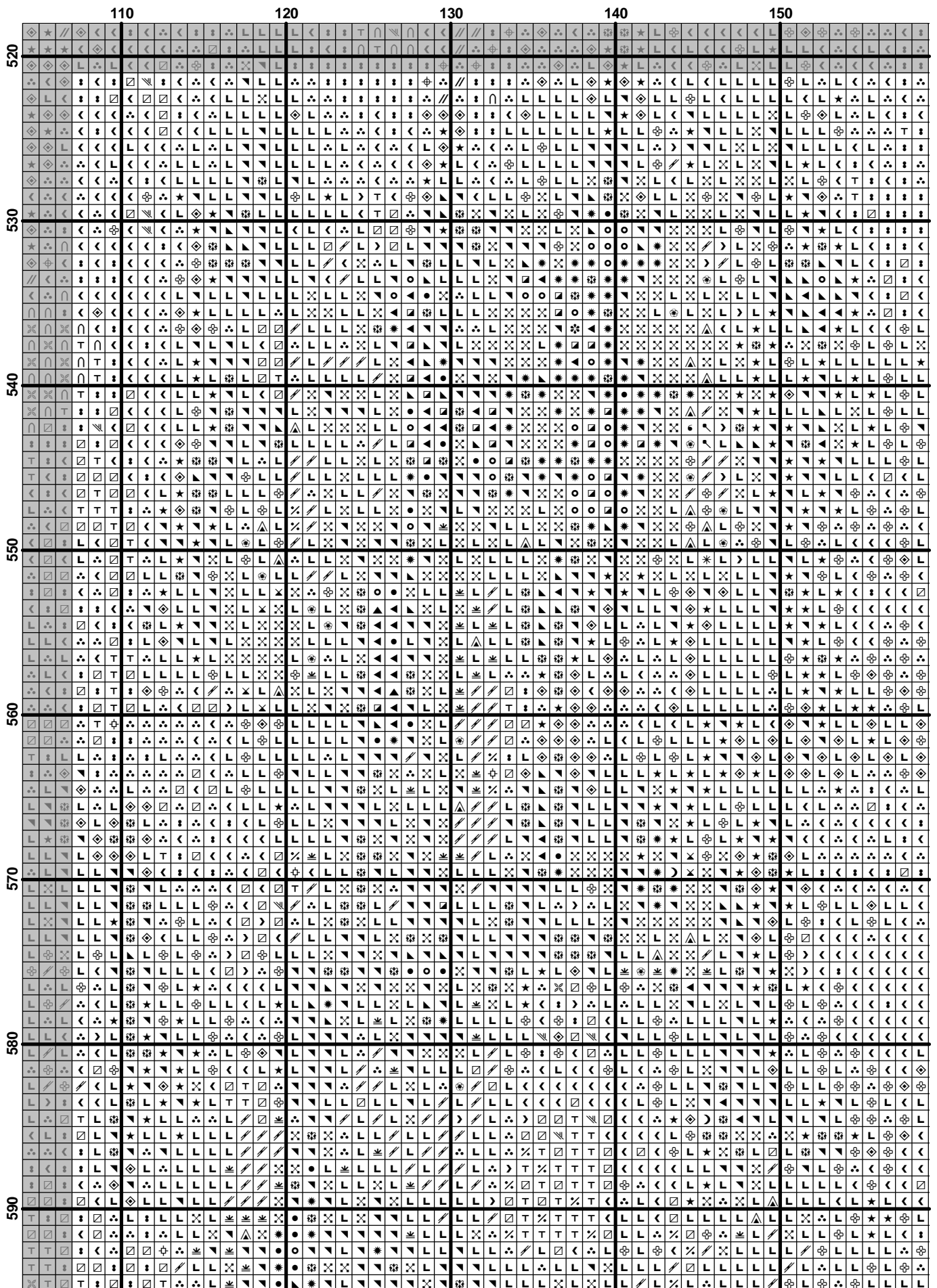


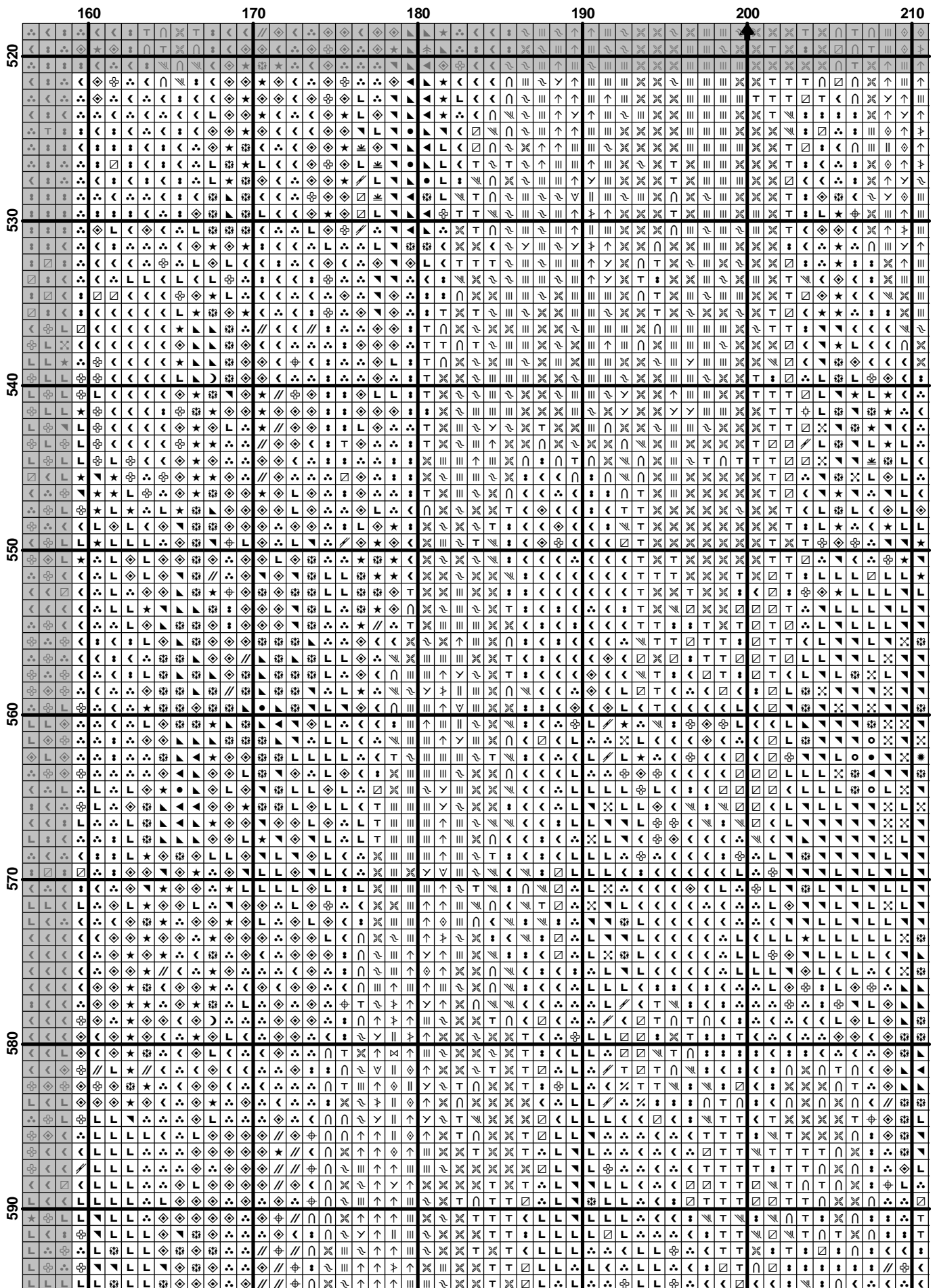


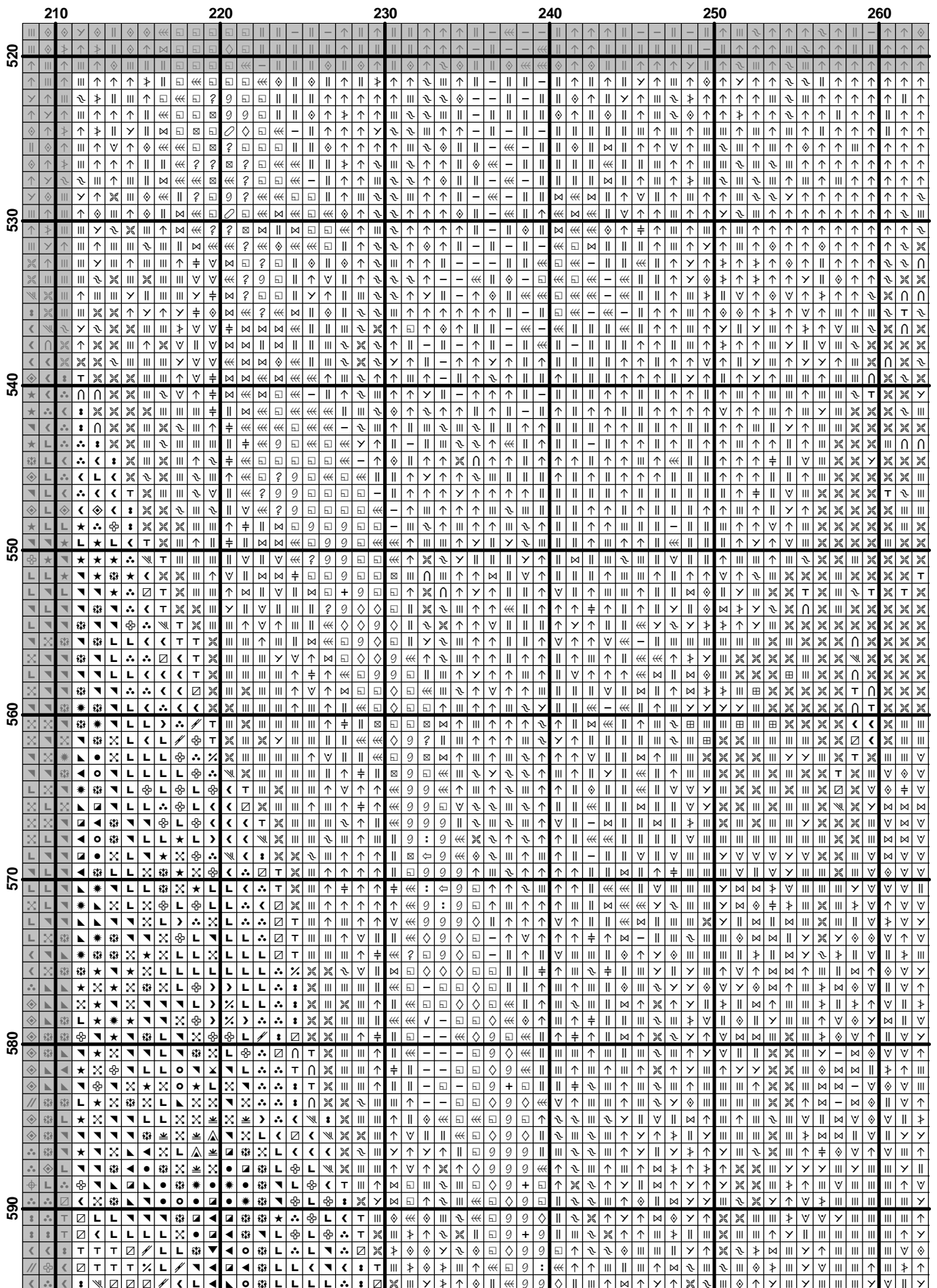
[illegible]

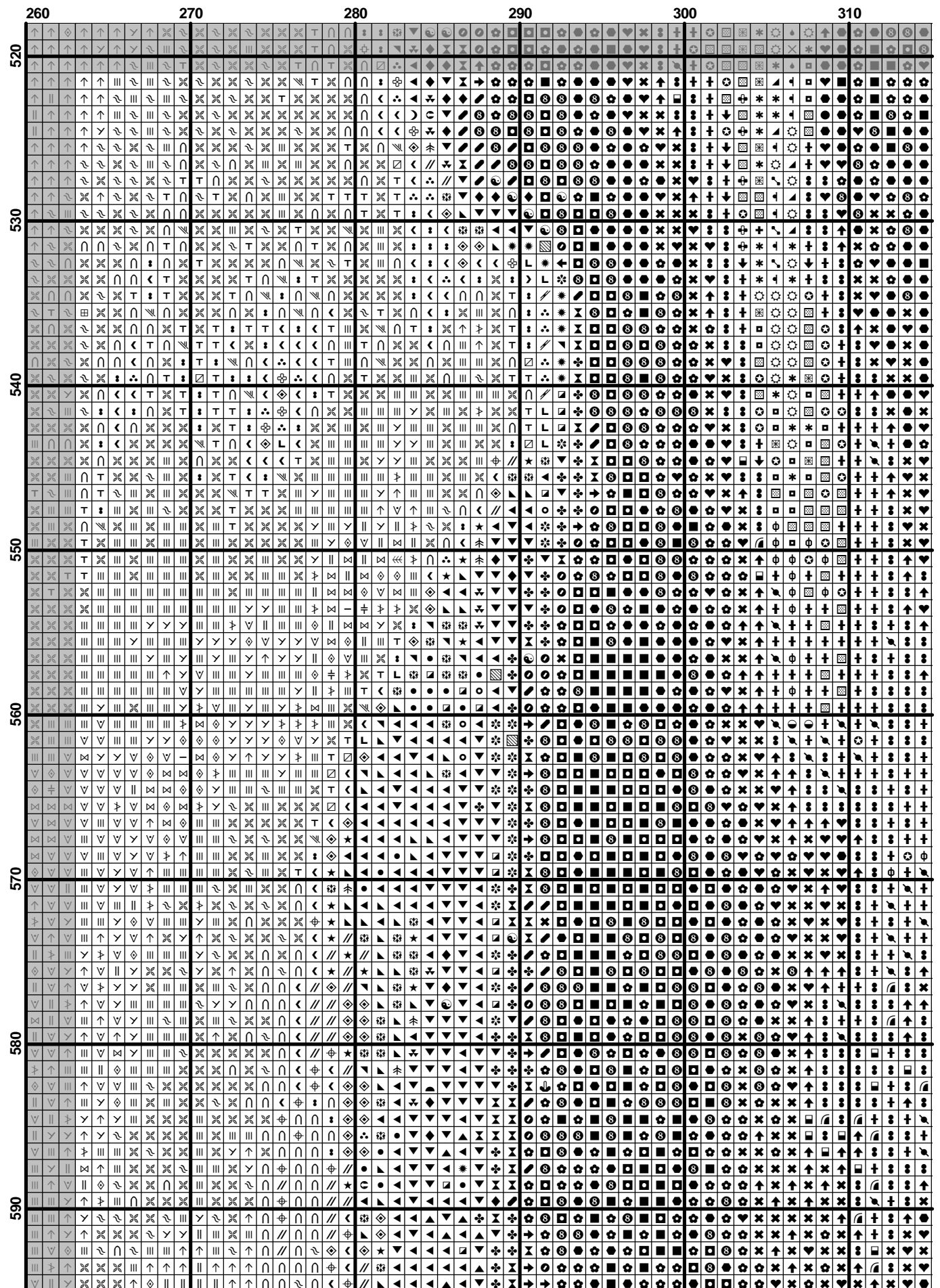


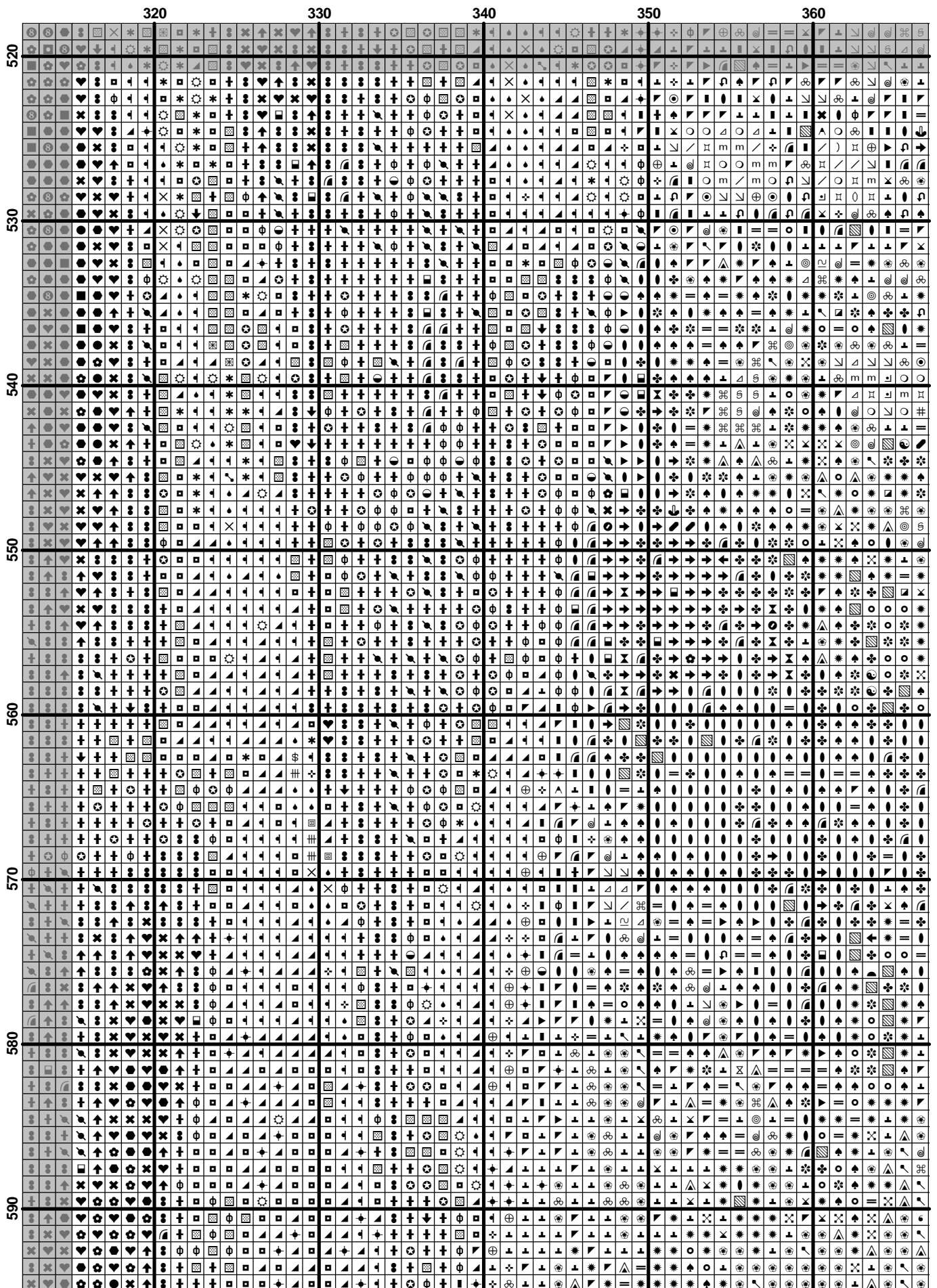
$$(66) \quad \text{[...]} \quad (67)$$



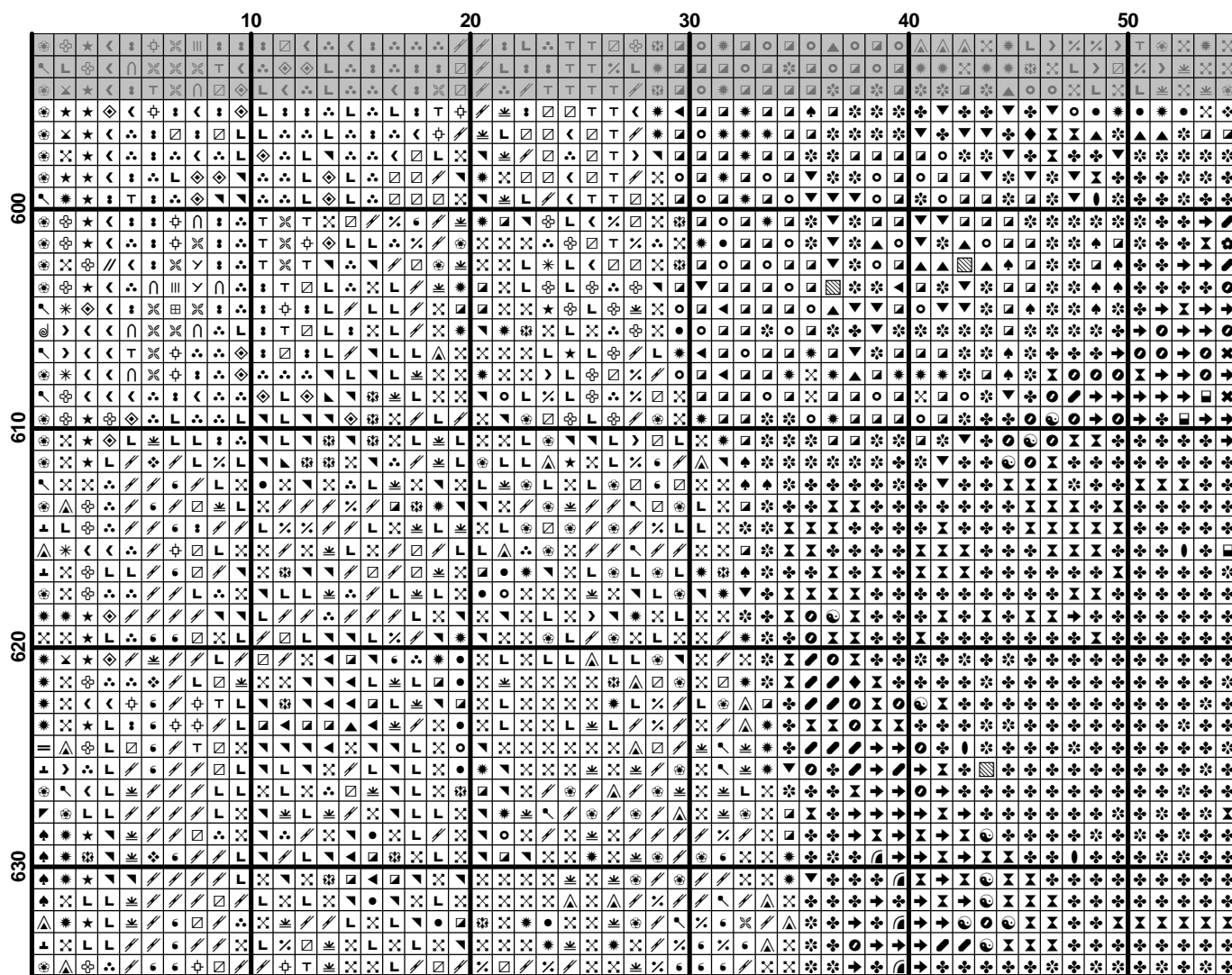


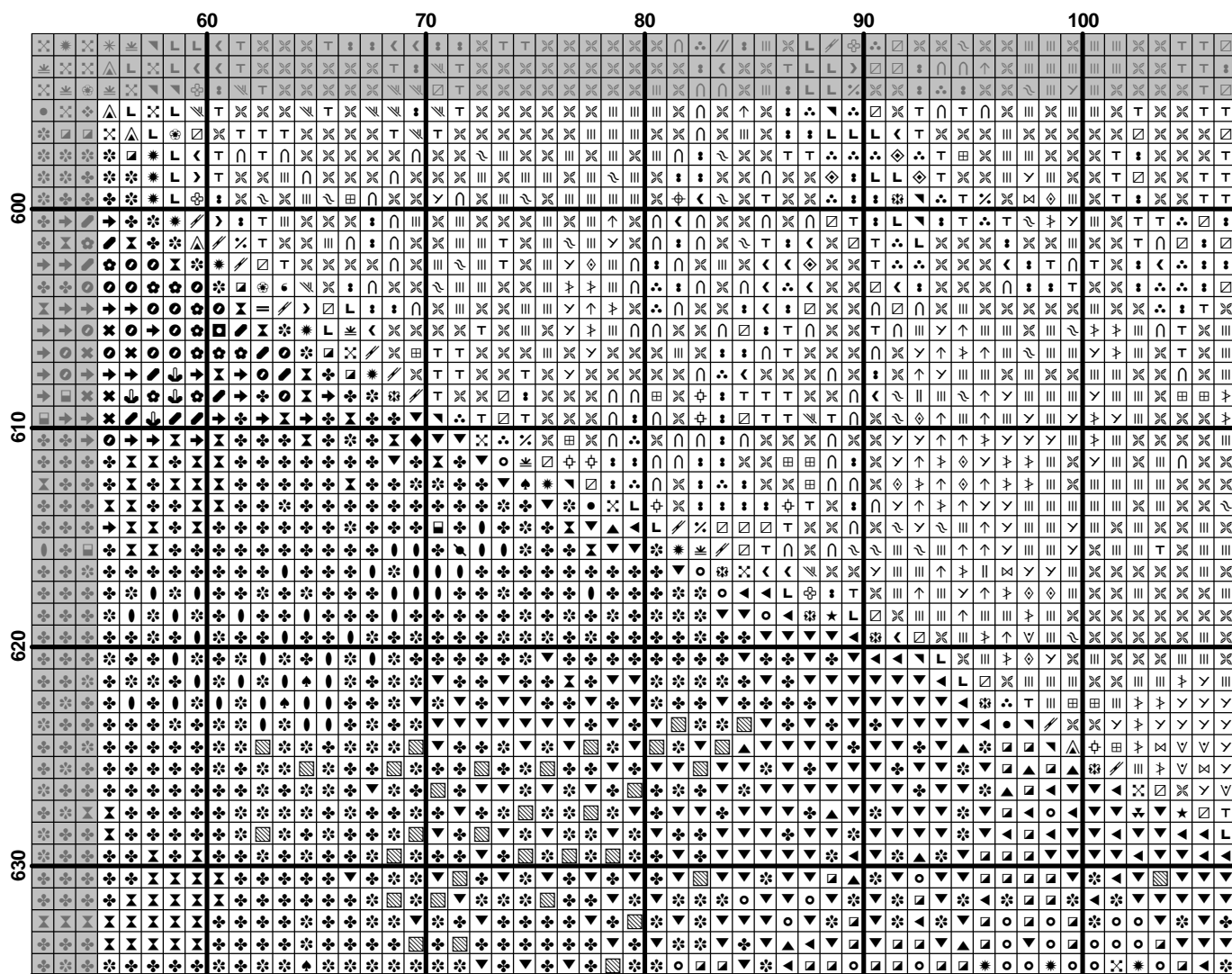












[illegible]

	160	170	180	190	200	210
600	L	L	L	L	L	L
610	L	L	L	L	L	L
620	L	L	L	L	L	L
630	L	L	L	L	L	L

[illegible]

