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1080 The Two Friends



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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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The Two Friends

		Stitch Count				Recommended Fabric Color	
		Horizontal:	700			Antique White	
		Vertical:	518				

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:	127	49.98	94	36.96	112	43.73	83	32.34	99	38.875	74	28.75
Including Margins:	143	56	110	43	128	50	99	39	115	45	90	35
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	177	69.97	131	51.74	148	58.31	109	43.12	74	29.15	54	21.56
Including Margins:	193	76	147	58	164	65	125	50	90	36	70	28
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	71	27.98	52	20.69	68	26.91	50	19.9	65	25.91	48	19.16
Including Margins:	87	34	68	27	84	33	66	26	81	32	64	26
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	63	24.99	47	18.48	59	23.32	43	17.24	55	21.86	41	16.17
Including Margins:	79	31	63	25	75	30	59	24	71	28	57	23

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
┆	225	Shell Pink-UL VY LT
■	310	Black
●	370	Mustard-MD
↑	372	Mustard-LT
⦶	407	Desert Sand-DK
▲	413	Pewter Gray -DK
⬇	420	Hazelnut Brown-DK
::	437	Tan-LT
◀	451	Shell Gray-DK
◊	452	Shell Gray-MD
◊	453	Shell Gray-LT
◇	470	Avocado Green-LT
▽	471	Avocado Green-VY LT
◊	472	Avocado Green-UL LT
⦶	522	Fern Green
..	523	Fern Green-LT
•	524	Fern Green-VY LT
⦶	535	Ash Gray-VY LT
:	543	Beige Brown-UL VY LT
▶	580	Moss Green-DK
⦶	610	Drab Brown-DK
+	632	Desert Sand-UL VY DK
⦶	640	Beige Gray-VY DK
▲	642	Beige Gray-DK
◊	644	Beige Gray-MD
✱	645	Beaver Gray-VY DK
⦶	646	Beaver Gray-DK
⦶	647	Beaver Gray-MD
~	712	Cream
✱	732	Olive Green
□	738	Tan-VY LT
⇒	739	Tan-UL VY LT
▷	772	Yellow Green-VY LT
≡	778	Antique Mauve-VY LT
n	819	Baby Pink-LT
III	833	Golden Olive-LT
⬇	838	Beige Brown-VY DK
⬆	839	Beige Brown-DK
◊	841	Beige Brown-LT
⦶	842	Beige Brown-VY LT

⦶	844	Beaver Brown-UL DK
✱	869	Hazelnut Brown-VY DK
▽	927	Gray Green-LT
⦶	928	Gray Green-VY LT
◆	935	Avocado Green-DK
⬇	936	Avocado Green-VY DK
✱	937	Avocado Green-MD
●	938	Coffee Brown-UL DK
⇄	950	Desert Sand-LT
<	951	Tawny-LT
◊	3011	Khaki Green-DK
◊	3012	Khaki Green-MD
△	3013	Khaki Green-LT
Z	3022	Brown Gray -MD
○	3023	Brown Gray -LT
●	3031	Mocha Brown-VY DK
=	3033	Mocha Brown-VY LT
◇	3046	Yellow Beige-MD
□	3047	Yellow Beige-LT
⊕	3052	Green Gray-MD
×	3053	Green Gray
○	3072	Beaver Gray-VY LT
▲	3346	Hunter Green
×	3347	Yellow Green-MD
☆	3348	Yellow Green-LT
●	3362	Pine Green-DK
⊕	3363	Pine Green-MD
~	3364	Pine Green
■	3371	Black Brown
∞	3770	Tawny-VY LT
H	3772	Desert Sand-VY DK
⦶	3781	Mocha Brown-DK
⦶	3782	Mocha Brown-LT
⦶	3787	Brown Gray -DK
✱	3799	Pewter Gray -VY DK
⦶	3828	Hazelnut Brown
⦶	3856	Mahogany-UL VY LT
τ	3861	Cocoa-LT
⦶	3862	Mocha Beige-DK
H	3864	Mocha Beige-LT
U	3865	Winter White
•	3866	Mocha Brown-UL VY LT
~	Ecrú	Ecrú

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
←	844	Beaver Brown-UL DK	924	Gray Green-VY DK
●	934	Black Avocado Green	3799	Pewter Gray -VY DK
✱	3021	Brown Gray -VY DK	3799	Pewter Gray -VY DK
⦶	3362	Pine Green-DK	935	Avocado Green-DK
⊕	3862	Mocha Beige-DK	371	Mustard
⦶	3772	Desert Sand-VY DK	3828	Hazelnut Brown

☉	3032	Mocha Brown-MD	451	Shell Gray-DK
☾	840	Beige Brown-MD	3860	Cocoa
◦	645	Beaver Gray-VY DK	3787	Brown Gray-DK
★	3860	Cocoa	640	Beige Gray-VY DK
ⵍ	3782	Mocha Brown-LT	841	Beige Brown-LT
—	738	Tan-VY LT	3782	Mocha Brown-LT
☞	842	Beige Brown-VY LT	452	Shell Gray-MD
✓	928	Gray Green-VY LT	453	Shell Gray-LT
✚	612	Drab Brown-LT	3864	Mocha Beige-LT
▨	839	Beige Brown-DK	3787	Brown Gray-DK
♠	840	Beige Brown-MD	3032	Mocha Brown-MD
⦿	3861	Cocoa-LT	647	Beaver Gray-MD
☼	839	Beige Brown-DK	3790	Beige Gray-UL DK
❖	3862	Mocha Beige-DK	840	Beige Brown-MD
	738	Tan-VY LT	3864	Mocha Beige-LT
☍	3021	Brown Gray-VY DK	844	Beaver Brown-UL DK
➔	3799	Pewter Gray-VY DK	844	Beaver Brown-UL DK
↓	3787	Brown Gray-DK	844	Beaver Brown-UL DK
✚	839	Beige Brown-DK	844	Beaver Brown-UL DK
✚	838	Beige Brown-VY DK	839	Beige Brown-DK
↑	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
⋮	3021	Brown Gray-VY DK	936	Avocado Green-VY DK
▼	937	Avocado Green-MD	3781	Mocha Brown-DK
◊	645	Beaver Gray-VY DK	646	Beaver Gray-DK
*	645	Beaver Gray-VY DK	3860	Cocoa
♥	934	Black Avocado Green	935	Avocado Green-DK
◀	839	Beige Brown-DK	640	Beige Gray-VY DK
✓	612	Drab Brown-LT	437	Tan-LT
⚙	611	Drab Brown	3011	Khaki Green-DK
☞	612	Drab Brown-LT	3772	Desert Sand-VY DK
⋮	640	Beige Gray-VY DK	3363	Pine Green-MD
◎	3828	Hazelnut Brown	612	Drab Brown-LT
5	950	Desert Sand-LT	842	Beige Brown-VY LT
⚗	739	Tan-UL VY LT	754	Peach-LT
0	950	Desert Sand-LT	543	Beige Brown-UL VY LT
6	453	Shell Gray-LT	3033	Mocha Brown-VY LT
☼	3863	Mocha Beige-MD	840	Beige Brown-MD
7	950	Desert Sand-LT	3864	Mocha Beige-LT
/	754	Peach-LT	738	Tan-VY LT
⚖	738	Tan-VY LT	3856	Mahogany-UL VY LT
●	3346	Hunter Green	3787	Brown Gray-DK
▨	3362	Pine Green-DK	3787	Brown Gray-DK
⌞	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
田	642	Beige Gray-DK	647	Beaver Gray-MD
☞	640	Beige Gray-VY DK	451	Shell Gray-DK
☼	451	Shell Gray-DK	3860	Cocoa
☞	928	Gray Green-VY LT	950	Desert Sand-LT
♦♦	640	Beige Gray-VY DK	3787	Brown Gray-DK
♠	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
✚	3864	Mocha Beige-LT	437	Tan-LT
1	819	Baby Pink-LT	3865	Winter White
♂	819	Baby Pink-LT	3756	Baby Blue-UL VY LT
«	3756	Baby Blue-UL VY LT	3865	Winter White
)	963	Dusty Rose-UL VY LT	3866	Mocha Brown-UL VY LT
^	712	Cream	963	Dusty Rose-UL VY LT
✓	3866	Mocha Brown-UL VY LT	543	Beige Brown-UL VY LT
⚙	3772	Desert Sand-VY DK	3864	Mocha Beige-LT
▲	3862	Mocha Beige-DK	3772	Desert Sand-VY DK
4	543	Beige Brown-UL VY LT	778	Antique Mauve-VY LT

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↑	3756	Baby Blue-UL VY LT	963	Dusty Rose-UL VY LT
⌘	3772	Desert Sand-VY DK	437	Tan-LT
∇	927	Gray Green-LT	452	Shell Gray-MD
✱	3346	Hunter Green	3362	Pine Green-DK
▲	3011	Khaki Green-DK	3346	Hunter Green
⌘	611	Drab Brown	3347	Yellow Green-MD
△	369	Pistachio Green-VY LT	453	Shell Gray-LT
⌘	471	Avocado Green-VY LT	3052	Green Gray-MD
↖	3347	Yellow Green-MD	3790	Beige Gray-UL DK
g	928	Gray Green-VY LT	955	Nile Green-LT
∅	3346	Hunter Green	470	Avocado Green-LT
L	3011	Khaki Green-DK	470	Avocado Green-LT
a	369	Pistachio Green-VY LT	564	Jade-VY LT
◎	580	Moss Green-DK	470	Avocado Green-LT
+	738	Tan-VY LT	739	Tan-UL VY LT
>	3047	Yellow Beige-LT	951	Tawny-LT
(951	Tawny-LT	ecru	Ecru
⌘	3866	Mocha Brown-UL VY LT	ecru	Ecru
♡	951	Tawny-LT	822	Beige Gray-LT
L	543	Beige Brown-UL VY LT	772	Yellow Green-VY LT
o	712	Cream	3866	Mocha Brown-UL VY LT
//	3862	Mocha Beige-DK	3863	Mocha Beige-MD
*	451	Shell Gray-DK	3772	Desert Sand-VY DK
●	934	Black Avocado Green	3371	Black Brown
Ⓢ	310	Black	3799	Pewter Gray -VY DK
●	310	Black	3031	Mocha Brown-VY DK
⌘	3772	Desert Sand-VY DK	610	Drab Brown-DK
#	3782	Mocha Brown-LT	3861	Cocoa-LT
♣	647	Beaver Gray-MD	451	Shell Gray-DK
⌘	3772	Desert Sand-VY DK	420	Hazelnut Brown-DK
>	371	Mustard	420	Hazelnut Brown-DK
◇	838	Beige Brown-VY DK	3781	Mocha Brown-DK
✱	926	Gray Green-MD	645	Beaver Gray-VY DK
⌘	3021	Brown Gray -VY DK	310	Black
⌘	645	Beaver Gray-VY DK	413	Pewter Gray -DK
⌘	612	Drab Brown-LT	704	Chartreuse-BRT
☐	581	Moss Green	3012	Khaki Green-MD
⌘	370	Mustard-MD	471	Avocado Green-VY LT
⌘	704	Chartreuse-BRT	734	Olive Green-LT
■	3011	Khaki Green-DK	580	Moss Green-DK
⌘	3781	Mocha Brown-DK	580	Moss Green-DK
⌘	3348	Yellow Green-LT	3053	Green Gray
m	524	Fern Green-VY LT	564	Jade-VY LT
✱	3346	Hunter Green	3363	Pine Green-MD
✱	3363	Pine Green-MD	3787	Brown Gray -DK
⌘	3052	Green Gray-MD	3364	Pine Green
⌘	772	Yellow Green-VY LT	3046	Yellow Beige-MD
c	3046	Yellow Beige-MD	3348	Yellow Green-LT
=	3346	Hunter Green	580	Moss Green-DK
♣	838	Beige Brown-VY DK	869	Hazelnut Brown-VY DK
♣	839	Beige Brown-DK	869	Hazelnut Brown-VY DK
∩	646	Beaver Gray-DK	647	Beaver Gray-MD

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	
225	Shell Pink-UL VY LT	84	33	80	31	72	28
310	Black	3583	1410	3413	1343	3071	1209
369	Pistachio Green-VY LT	83	32	79	31	71	27
370	Mustard-MD	509	200	484	190	436	171
371	Mustard	112	44	106	41	96	37
372	Mustard-LT	84	33	80	31	72	28
407	Desert Sand-DK	140	55	134	52	120	47
413	Pewter Gray -DK	91	35	87	34	78	30
420	Hazelnut Brown-DK	100	39	95	37	86	33
437	Tan-LT	379	149	361	142	325	127
451	Shell Gray-DK	2159	850	2057	809	1851	728
452	Shell Gray-MD	914	359	870	342	783	308
453	Shell Gray-LT	730	287	695	273	626	246
470	Avocado Green-LT	941	370	897	353	807	317
471	Avocado Green-VY LT	1547	609	1473	579	1326	522
472	Avocado Green-UL LT	55	21	52	20	47	18
522	Fern Green	128	50	122	48	110	43
523	Fern Green-LT	130	51	124	48	111	43
524	Fern Green-VY LT	390	153	372	146	335	131
535	Ash Gray -VY LT	390	153	372	146	334	131
543	Beige Brown-UL VY LT	1564	615	1489	586	1340	527
564	Jade-VY LT	50	19	47	18	43	16
580	Moss Green-DK	790	311	752	296	677	266
581	Moss Green	316	124	301	118	270	106
610	Drab Brown-DK	324	127	309	121	278	109
611	Drab Brown	749	294	713	280	642	252
612	Drab Brown-LT	1342	528	1278	503	1150	452
632	Desert Sand-UL VY DK	106	41	101	39	91	35
640	Beige Gray-VY DK	3689	1452	3513	1383	3162	1244
642	Beige Gray-DK	990	389	942	370	848	333
644	Beige Gray-MD	347	136	331	130	298	117
645	Beaver Gray-VY DK	1624	639	1546	608	1392	548
646	Beaver Gray-DK	720	283	686	270	617	242
647	Beaver Gray-MD	971	382	925	364	832	327
704	Chartreuse-BRT	599	235	570	224	513	201
712	Cream	3425	1348	3262	1284	2936	1155
732	Olive Green	41	16	39	15	35	13
734	Olive Green-LT	114	44	109	42	98	38
738	Tan-VY LT	815	320	776	305	698	274
739	Tan-UL VY LT	290	114	276	108	249	98
754	Peach-LT	123	48	117	46	106	41
772	Yellow Green-VY LT	158	62	150	59	135	53
778	Antique Mauve-VY LT	110	43	105	41	95	37
819	Baby Pink-LT	1876	738	1786	703	1608	633
822	Beige Gray-LT	303	119	289	113	260	102
833	Golden Olive-LT	32	12	31	12	28	11
838	Beige Brown-VY DK	425	167	405	159	364	143
839	Beige Brown-DK	3275	1289	3119	1227	2807	1105
840	Beige Brown-MD	1673	658	1594	627	1434	564
841	Beige Brown-LT	2336	919	2224	875	2002	788
842	Beige Brown-VY LT	1327	522	1264	497	1137	447
844	Beaver Brown-UL DK	2870	1129	2734	1076	2460	968
869	Hazelnut Brown-VY DK	119	46	113	44	102	40
924	Gray Green-VY DK	61	24	58	22	52	20

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926	Gray Green-MD	64	25	61	24	55	21
927	Gray Green-LT	133	52	126	49	114	44
928	Gray Green-VY LT	323	127	307	120	277	109
934	Black Avocado Green	1416	557	1349	531	1214	477
935	Avocado Green-DK	995	391	948	373	853	335
936	Avocado Green-VY DK	323	127	308	121	277	109
937	Avocado Green-MD	330	129	314	123	283	111
938	Coffee Brown-UL DK	187	73	178	70	160	62
950	Desert Sand-LT	1287	506	1226	482	1103	434
951	Tawny -LT	662	260	630	248	567	223
955	Nile Green-LT	11	4	11	4	10	3
963	Dusty Rose-UL VY LT	405	159	386	151	347	136
3011	Khaki Green-DK	1721	677	1639	645	1475	580
3012	Khaki Green-MD	651	256	620	244	558	219
3013	Khaki Green-LT	132	51	126	49	113	44
3021	Brown Gray -VY DK	4559	1794	4341	1709	3907	1538
3022	Brown Gray -MD	410	161	391	153	352	138
3023	Brown Gray -LT	498	196	474	186	427	168
3031	Mocha Brown-VY DK	1951	768	1858	731	1672	658
3032	Mocha Brown-MD	1638	644	1560	614	1404	552
3033	Mocha Brown-VY LT	677	266	645	253	580	228
3046	Yellow Beige-MD	126	49	120	47	108	42
3047	Yellow Beige-LT	42	16	40	15	36	14
3052	Green Gray-MD	1591	626	1515	596	1363	536
3053	Green Gray	486	191	463	182	417	164
3072	Beaver Gray-VY LT	355	139	338	133	304	119
3346	Hunter Green	2254	887	2147	845	1932	760
3347	Yellow Green-MD	1553	611	1479	582	1331	524
3348	Yellow Green-LT	491	193	467	183	421	165
3362	Pine Green-DK	1160	456	1105	435	994	391
3363	Pine Green-MD	1015	399	967	380	870	342
3364	Pine Green	993	390	946	372	851	335
3371	Black Brown	1134	446	1080	425	972	382
3756	Baby Blue-UL VY LT	834	328	794	312	714	281
3770	Tawny -VY LT	458	180	437	172	393	154
3772	Desert Sand-VY DK	1315	517	1253	493	1127	443
3781	Mocha Brown-DK	778	306	741	291	667	262
3782	Mocha Brown-LT	2456	966	2339	920	2105	828
3787	Brown Gray -DK	3632	1429	3459	1361	3113	1225
3790	Beige Gray-UL DK	995	391	948	373	853	335
3799	Pewter Gray -VY DK	3588	1412	3417	1345	3076	1211
3828	Hazelnut Brown	191	75	182	71	164	64
3856	Mahogany-UL VY LT	54	21	52	20	46	18
3860	Cocoa	1240	488	1181	464	1063	418
3861	Cocoa-LT	1027	404	978	385	880	346
3862	Mocha Beige-DK	728	286	693	272	624	245
3863	Mocha Beige-MD	405	159	386	151	347	136
3864	Mocha Beige-LT	2658	1046	2531	996	2278	896
3865	Winter White	1569	617	1495	588	1345	529
3866	Mocha Brown-UL VY LT	3167	1246	3016	1187	2715	1068
ecru	Ecru	1508	593	1436	565	1292	508

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
225	Shell Pink-UL VY LT	130	50	108	42	54	21
310	Black	5528	2176	4607	1814	2303	907
369	Pistachio Green-VY LT	128	49	107	41	53	20
370	Mustard-MD	785	308	654	257	327	128
371	Mustard	173	67	144	56	72	28
372	Mustard-LT	130	50	108	42	54	21
407	Desert Sand-DK	216	85	180	71	90	35
413	Pewter Gray -DK	140	54	117	45	59	23
420	Hazelnut Brown-DK	155	59	129	50	65	25
437	Tan-LT	585	229	488	191	244	95
451	Shell Gray-DK	3332	1310	2777	1092	1388	546
452	Shell Gray-MD	1409	554	1175	462	587	231
453	Shell Gray-LT	1127	443	939	369	470	185
470	Avocado Green-LT	1453	571	1211	476	605	238
471	Avocado Green-VY LT	2387	940	1989	783	995	392
472	Avocado Green-UL LT	85	32	71	27	35	14
522	Fern Green	198	77	165	65	83	32
523	Fern Green-LT	200	77	167	65	83	32
524	Fern Green-VY LT	603	236	503	197	251	98
535	Ash Gray-VY LT	601	236	501	197	251	98
543	Beige Brown-UL VY LT	2412	949	2010	791	1005	395
564	Jade-VY LT	77	29	65	24	32	12
580	Moss Green-DK	1219	479	1016	399	508	200
581	Moss Green	486	191	405	159	203	80
610	Drab Brown-DK	500	196	417	164	209	82
611	Drab Brown	1156	454	963	378	482	189
612	Drab Brown-LT	2070	814	1725	678	863	339
632	Desert Sand-UL VY DK	164	63	137	53	68	26
640	Beige Gray-VY DK	5692	2239	4743	1866	2372	933
642	Beige Gray-DK	1526	599	1272	500	636	250
644	Beige Gray-MD	536	211	447	176	224	88
645	Beaver Gray-VY DK	2506	986	2088	822	1044	411
646	Beaver Gray-DK	1111	436	926	363	463	182
647	Beaver Gray-MD	1498	589	1248	491	624	245
704	Chartreuse-BRT	923	362	770	302	385	151
712	Cream	5285	2079	4404	1733	2202	866
732	Olive Green	63	23	53	20	26	10
734	Olive Green-LT	176	68	147	57	74	29
738	Tan-VY LT	1256	493	1047	411	524	206
739	Tan-UL VY LT	448	176	374	147	187	74
754	Peach-LT	191	74	159	62	80	31
772	Yellow Green-VY LT	243	95	203	80	101	40
778	Antique Mauve-VY LT	171	67	143	56	71	28
819	Baby Pink-LT	2894	1139	2412	950	1206	475
822	Beige Gray-LT	468	184	390	153	195	77
833	Golden Olive-LT	50	20	42	17	21	8
838	Beige Brown-VY DK	655	257	546	215	273	107
839	Beige Brown-DK	5053	1989	4211	1658	2105	829
840	Beige Brown-MD	2581	1015	2151	846	1076	423
841	Beige Brown-LT	3604	1418	3003	1182	1502	591
842	Beige Brown-VY LT	2047	805	1706	671	853	335
844	Beaver Brown-UL DK	4428	1742	3690	1452	1845	726
869	Hazelnut Brown-VY DK	184	72	153	60	77	30

924	Gray Green-VY DK	94	36	78	30	39	15
926	Gray Green-MD	99	38	83	32	41	16
927	Gray Green-LT	205	79	171	66	86	33
928	Gray Green-VY LT	499	196	416	164	208	82
934	Black Avocado Green	2185	859	1821	716	911	358
935	Avocado Green-DK	1535	603	1280	503	640	251
936	Avocado Green-VY DK	499	196	416	164	208	82
937	Avocado Green-MD	509	200	425	167	212	83
938	Coffee Brown-UL DK	288	112	240	93	120	47
950	Desert Sand-LT	1985	781	1655	651	827	326
951	Tawny-LT	1021	401	851	335	425	167
955	Nile Green-LT	18	5	15	5	8	2
963	Dusty Rose-UL VY LT	625	245	521	204	260	102
3011	Khaki Green-DK	2655	1044	2213	870	1106	435
3012	Khaki Green-MD	1004	394	837	329	419	164
3013	Khaki Green-LT	203	79	170	66	85	33
3021	Brown Gray -VY DK	7033	2768	5861	2307	2930	1154
3022	Brown Gray -MD	634	248	528	207	264	104
3023	Brown Gray -LT	769	302	641	252	320	126
3031	Mocha Brown-VY DK	3010	1184	2508	987	1254	494
3032	Mocha Brown-MD	2527	994	2106	828	1053	414
3033	Mocha Brown-VY LT	1044	410	870	342	435	171
3046	Yellow Beige-MD	194	76	162	63	81	32
3047	Yellow Beige-LT	65	25	54	21	27	11
3052	Green Gray-MD	2453	965	2045	804	1022	402
3053	Green Gray	751	295	626	246	313	123
3072	Beaver Gray-VY LT	547	214	456	179	228	89
3346	Hunter Green	3478	1368	2898	1140	1449	570
3347	Yellow Green-MD	2396	943	1997	786	998	393
3348	Yellow Green-LT	758	297	632	248	316	124
3362	Pine Green-DK	1789	704	1491	587	746	293
3363	Pine Green-MD	1566	616	1305	513	653	257
3364	Pine Green	1532	603	1277	503	638	251
3371	Black Brown	1750	688	1458	573	729	287
3756	Baby Blue-UL VY LT	1285	506	1071	422	536	211
3770	Tawny -VY LT	707	277	590	231	295	116
3772	Desert Sand-VY DK	2029	797	1691	665	845	332
3781	Mocha Brown-DK	1201	472	1001	393	500	197
3782	Mocha Brown-LT	3789	1490	3158	1242	1579	621
3787	Brown Gray -DK	5603	2205	4670	1838	2335	919
3790	Beige Gray-UL DK	1535	603	1280	503	640	251
3799	Pewter Gray -VY DK	5537	2180	4614	1817	2307	908
3828	Hazelnut Brown	295	115	246	96	123	48
3856	Mahogany-UL VY LT	83	32	69	27	35	14
3860	Cocoa	1913	752	1595	627	797	314
3861	Cocoa-LT	1584	623	1320	519	660	260
3862	Mocha Beige-DK	1123	441	936	368	468	184
3863	Mocha Beige-MD	625	245	521	204	260	102
3864	Mocha Beige-LT	4100	1613	3417	1344	1709	672
3865	Winter White	2421	952	2018	794	1009	397
3866	Mocha Brown-UL VY LT	4887	1922	4073	1602	2036	801
ecru	Ecru	2326	914	1938	762	969	381

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
225	Shell Pink-UL VY LT	52	20	50	19	48	19
310	Black	2211	870	2126	837	2047	806
369	Pistachio Green-VY LT	51	19	49	19	47	18
370	Mustard-MD	314	123	302	118	291	114
371	Mustard	69	27	66	26	64	25
372	Mustard-LT	52	20	50	19	48	19
407	Desert Sand-DK	86	34	83	33	80	31
413	Pewter Gray -DK	56	22	54	21	52	20
420	Hazelnut Brown-DK	62	24	60	23	57	22
437	Tan-LT	234	91	225	88	217	85
451	Shell Gray-DK	1333	524	1281	504	1234	485
452	Shell Gray-MD	564	222	542	213	522	205
453	Shell Gray-LT	451	177	433	170	417	164
470	Avocado Green-LT	581	228	559	219	538	211
471	Avocado Green-VY LT	955	376	918	361	884	348
472	Avocado Green-UL LT	34	13	33	12	31	12
522	Fern Green	79	31	76	30	73	29
523	Fern Green-LT	80	31	77	30	74	29
524	Fern Green-VY LT	241	94	232	91	223	87
535	Ash Gray-VY LT	240	94	231	91	223	87
543	Beige Brown-UL VY LT	965	379	928	365	893	351
564	Jade-VY LT	31	12	30	11	29	11
580	Moss Green-DK	487	192	469	184	451	177
581	Moss Green	194	76	187	73	180	71
610	Drab Brown-DK	200	78	192	75	185	73
611	Drab Brown	462	181	444	174	428	168
612	Drab Brown-LT	828	325	796	313	767	301
632	Desert Sand-UL VY DK	66	25	63	24	61	23
640	Beige Gray-VY DK	2277	896	2189	861	2108	829
642	Beige Gray-DK	611	240	587	231	565	222
644	Beige Gray-MD	215	84	206	81	199	78
645	Beaver Gray-VY DK	1002	395	964	379	928	365
646	Beaver Gray-DK	444	174	427	168	411	161
647	Beaver Gray-MD	599	235	576	226	555	218
704	Chartreuse-BRT	369	145	355	139	342	134
712	Cream	2114	832	2033	800	1957	770
732	Olive Green	25	9	24	9	23	9
734	Olive Green-LT	71	27	68	26	65	25
738	Tan-VY LT	503	197	483	190	465	183
739	Tan-UL VY LT	179	71	172	68	166	65
754	Peach-LT	76	30	73	28	71	27
772	Yellow Green-VY LT	97	38	93	37	90	35
778	Antique Mauve-VY LT	68	27	66	26	63	25
819	Baby Pink-LT	1158	456	1113	438	1072	422
822	Beige Gray-LT	187	73	180	71	173	68
833	Golden Olive-LT	20	8	19	8	19	7
838	Beige Brown-VY DK	262	103	252	99	243	95
839	Beige Brown-DK	2021	796	1943	765	1871	737
840	Beige Brown-MD	1032	406	993	390	956	376
841	Beige Brown-LT	1441	567	1386	546	1335	525
842	Beige Brown-VY LT	819	322	787	309	758	298
844	Beaver Brown-UL DK	1771	697	1703	670	1640	645
869	Hazelnut Brown-VY DK	73	29	71	28	68	27

924	Gray Green-VY DK	37	14	36	14	35	13
926	Gray Green-MD	40	15	38	15	37	14
927	Gray Green-LT	82	32	79	30	76	29
928	Gray Green-VY LT	199	78	192	75	185	73
934	Black Avocado Green	874	343	840	330	809	318
935	Avocado Green-DK	614	241	591	232	569	223
936	Avocado Green-VY DK	199	78	192	75	185	73
937	Avocado Green-MD	204	80	196	77	189	74
938	Coffee Brown-UL DK	115	45	111	43	107	41
950	Desert Sand-LT	794	312	764	300	735	289
951	Tawny-LT	408	161	393	154	378	149
955	Nile Green-LT	7	2	7	2	7	2
963	Dusty Rose-UL VY LT	250	98	240	94	231	91
3011	Khaki Green-DK	1062	418	1021	402	983	387
3012	Khaki Green-MD	402	158	386	152	372	146
3013	Khaki Green-LT	81	32	78	30	75	29
3021	Brown Gray -VY DK	2813	1107	2705	1065	2605	1025
3022	Brown Gray -MD	253	99	244	96	235	92
3023	Brown Gray -LT	307	121	296	116	285	112
3031	Mocha Brown-VY DK	1204	474	1158	456	1115	439
3032	Mocha Brown-MD	1011	397	972	382	936	368
3033	Mocha Brown-VY LT	418	164	402	158	387	152
3046	Yellow Beige-MD	78	30	75	29	72	28
3047	Yellow Beige-LT	26	10	25	10	24	9
3052	Green Gray-MD	981	386	944	371	909	357
3053	Green Gray	300	118	289	114	278	109
3072	Beaver Gray-VY LT	219	86	210	82	203	79
3346	Hunter Green	1391	547	1338	526	1288	507
3347	Yellow Green-MD	958	377	921	363	887	349
3348	Yellow Green-LT	303	119	291	114	281	110
3362	Pine Green-DK	716	282	688	271	663	261
3363	Pine Green-MD	626	246	602	237	580	228
3364	Pine Green	613	241	589	232	567	223
3371	Black Brown	700	275	673	264	648	255
3756	Baby Blue-UL VY LT	514	202	494	195	476	187
3770	Tawny -VY LT	283	111	272	107	262	103
3772	Desert Sand-VY DK	811	319	780	307	751	295
3781	Mocha Brown-DK	480	189	462	181	445	175
3782	Mocha Brown-LT	1516	596	1457	573	1403	552
3787	Brown Gray -DK	2241	882	2155	848	2075	817
3790	Beige Gray-UL DK	614	241	591	232	569	223
3799	Pewter Gray -VY DK	2215	872	2130	838	2051	807
3828	Hazelnut Brown	118	46	114	44	109	43
3856	Mahogany-UL VY LT	33	13	32	12	31	12
3860	Cocoa	765	301	736	289	709	279
3861	Cocoa-LT	634	249	609	240	587	231
3862	Mocha Beige-DK	449	176	432	170	416	163
3863	Mocha Beige-MD	250	98	240	94	231	91
3864	Mocha Beige-LT	1640	645	1577	620	1519	597
3865	Winter White	968	381	931	366	897	353
3866	Mocha Brown-UL VY LT	1955	769	1880	739	1810	712
ecru	Ecru	930	366	894	352	861	339

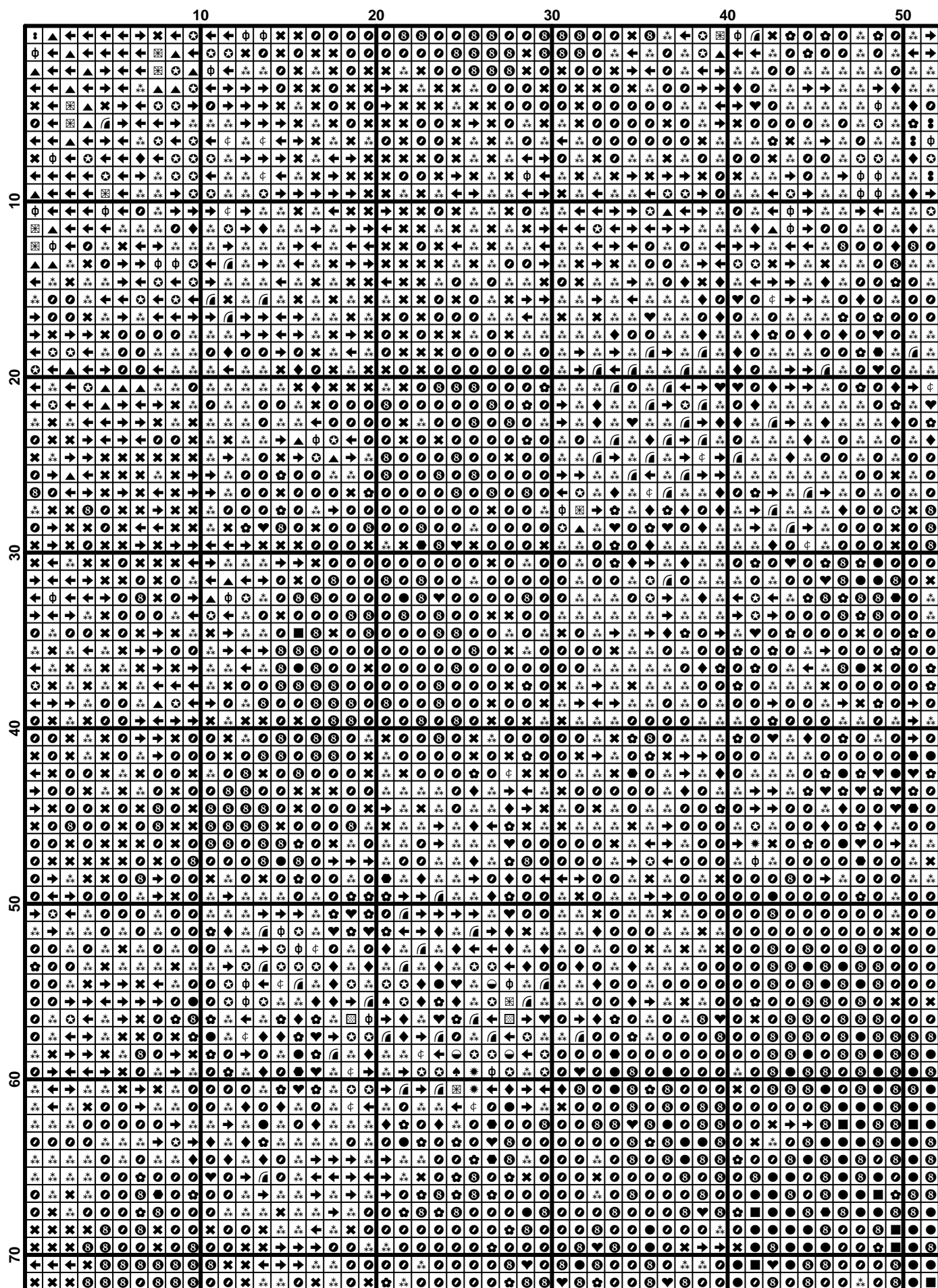
Extended thread usage table.

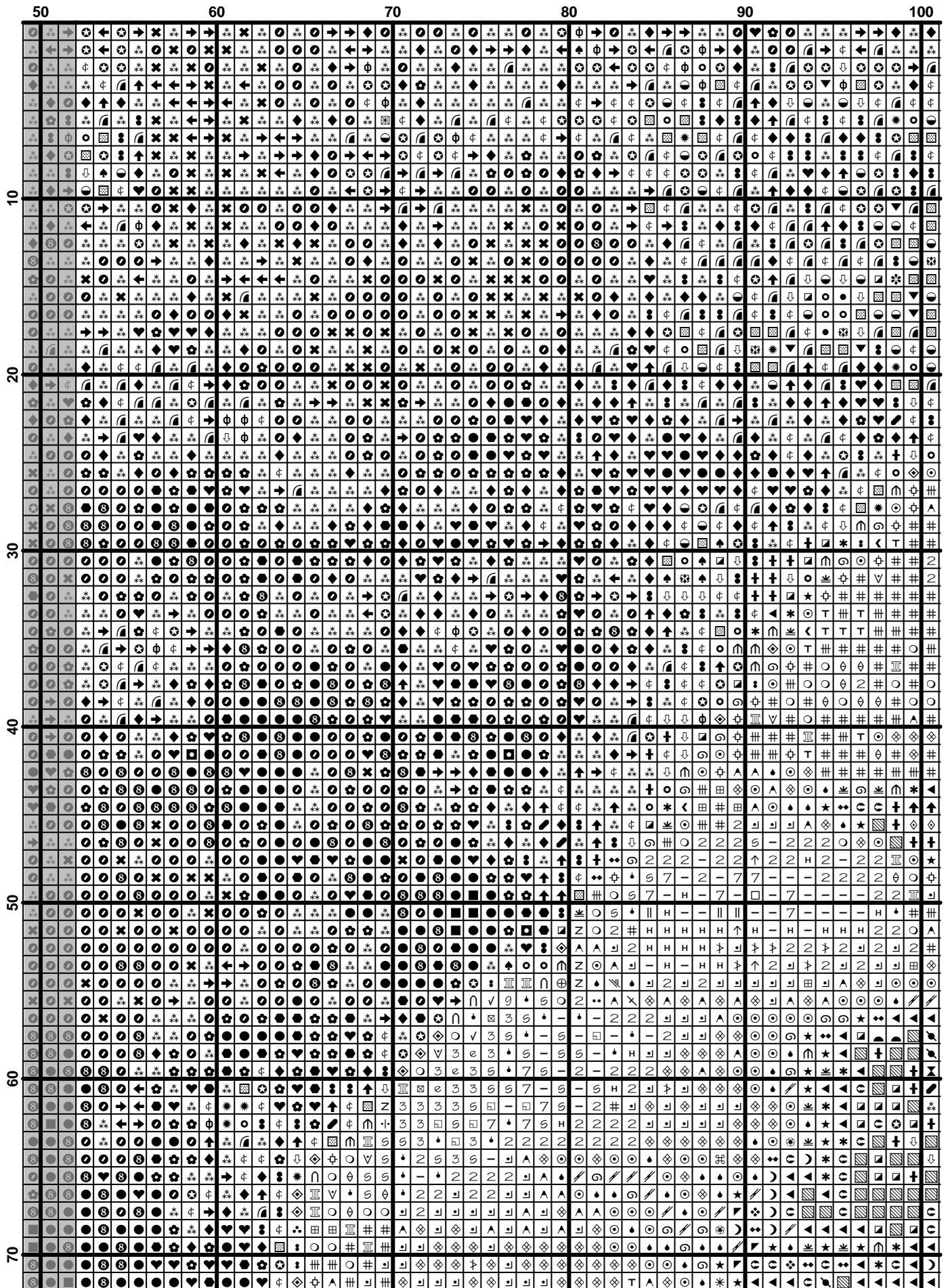
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
225	Shell Pink-UL VY LT	46	18	43	17	41	16
310	Black	1974	777	1843	725	1727	680
369	Pistachio Green-VY LT	46	17	43	16	40	15
370	Mustard-MD	280	110	262	103	245	96
371	Mustard	62	24	58	22	54	21
372	Mustard-LT	46	18	43	17	41	16
407	Desert Sand-DK	77	30	72	28	68	26
413	Pewter Gray -DK	50	19	47	18	44	17
420	Hazelnut Brown-DK	55	21	52	20	48	19
437	Tan-LT	209	82	195	76	183	71
451	Shell Gray-DK	1190	468	1111	437	1041	410
452	Shell Gray-MD	503	198	470	185	440	173
453	Shell Gray-LT	402	158	376	148	352	138
470	Avocado Green-LT	519	204	484	190	454	178
471	Avocado Green-VY LT	852	336	796	313	746	294
472	Avocado Green-UL LT	30	12	28	11	26	10
522	Fern Green	71	28	66	26	62	24
523	Fern Green-LT	71	28	67	26	62	24
524	Fern Green-VY LT	215	84	201	79	188	74
535	Ash Gray -VY LT	215	84	200	79	188	74
543	Beige Brown-UL VY LT	861	339	804	316	754	296
564	Jade-VY LT	28	10	26	10	24	9
580	Moss Green-DK	435	171	406	160	381	150
581	Moss Green	174	68	162	64	152	60
610	Drab Brown-DK	179	70	167	65	156	61
611	Drab Brown	413	162	385	151	361	142
612	Drab Brown-LT	739	291	690	271	647	254
632	Desert Sand-UL VY DK	59	23	55	21	51	20
640	Beige Gray-VY DK	2033	800	1897	746	1779	700
642	Beige Gray-DK	545	214	509	200	477	187
644	Beige Gray-MD	192	75	179	70	168	66
645	Beaver Gray-VY DK	895	352	835	329	783	308
646	Beaver Gray-DK	397	156	370	145	347	136
647	Beaver Gray-MD	535	210	499	196	468	184
704	Chartreuse-BRT	330	129	308	121	289	113
712	Cream	1887	743	1762	693	1652	650
732	Olive Green	23	8	21	8	20	7
734	Olive Green-LT	63	24	59	23	55	21
738	Tan-VY LT	449	176	419	164	393	154
739	Tan-UL VY LT	160	63	149	59	140	55
754	Peach-LT	68	26	64	25	60	23
772	Yellow Green-VY LT	87	34	81	32	76	30
778	Antique Mauve-VY LT	61	24	57	22	53	21
819	Baby Pink-LT	1034	407	965	380	905	356
822	Beige Gray-LT	167	66	156	61	146	57
833	Golden Olive-LT	18	7	17	7	16	6
838	Beige Brown-VY DK	234	92	218	86	205	80
839	Beige Brown-DK	1805	710	1684	663	1579	622
840	Beige Brown-MD	922	363	860	338	807	317
841	Beige Brown-LT	1287	507	1201	473	1126	443
842	Beige Brown-VY LT	731	287	682	268	640	251
844	Beaver Brown-UL DK	1581	622	1476	581	1384	545
869	Hazelnut Brown-VY DK	66	26	61	24	57	23
924	Gray Green-VY DK	33	13	31	12	29	11

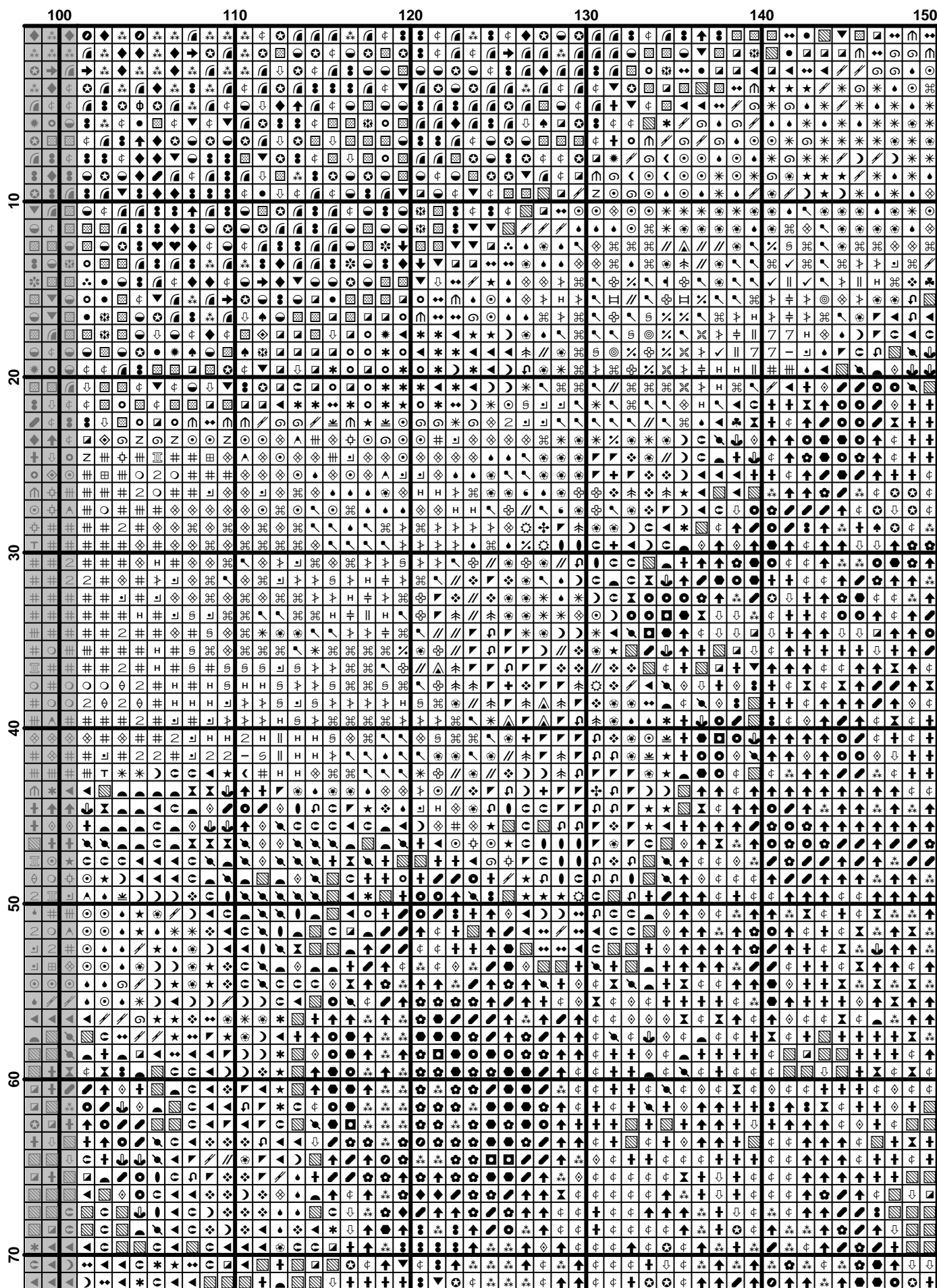
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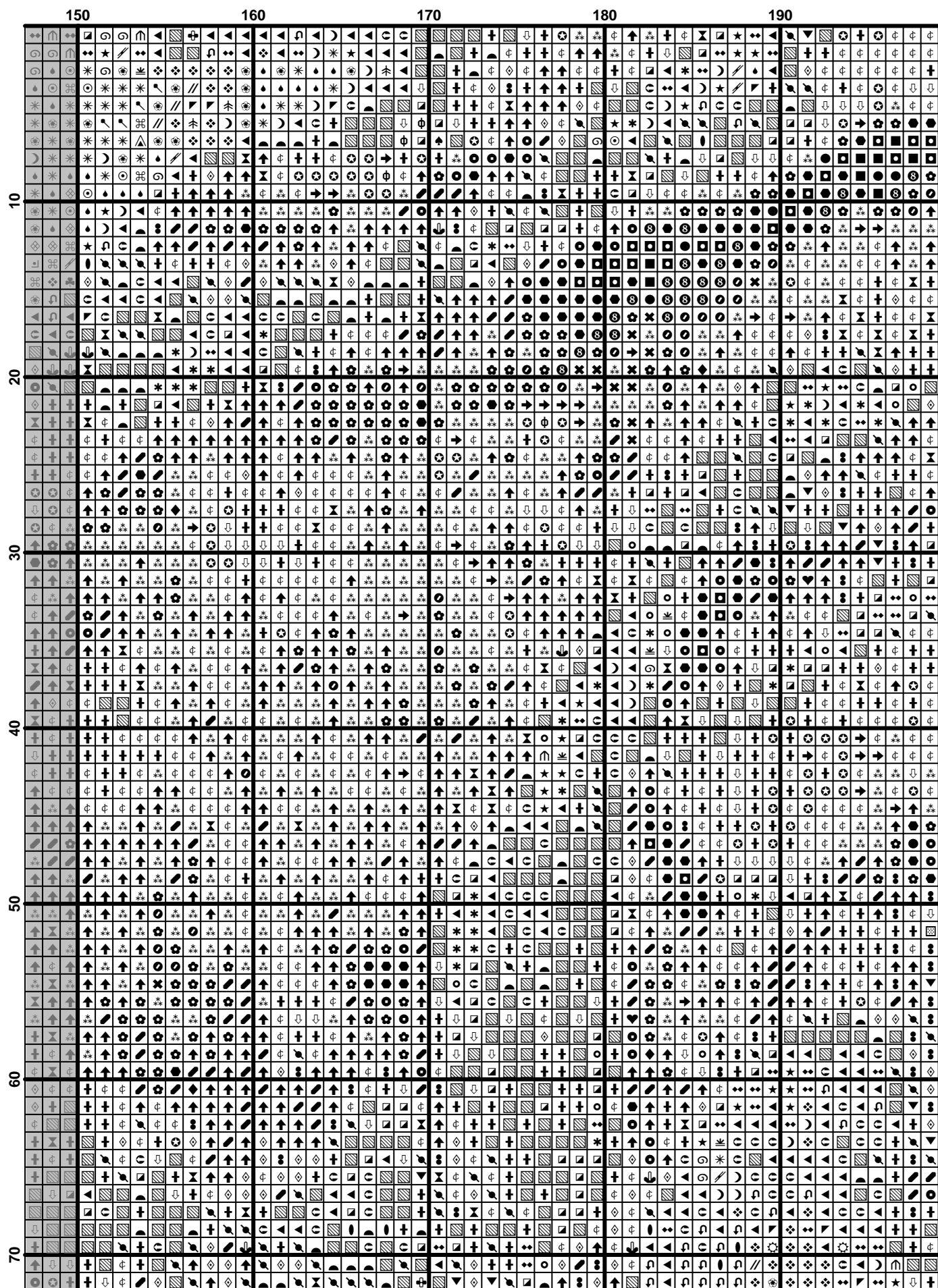
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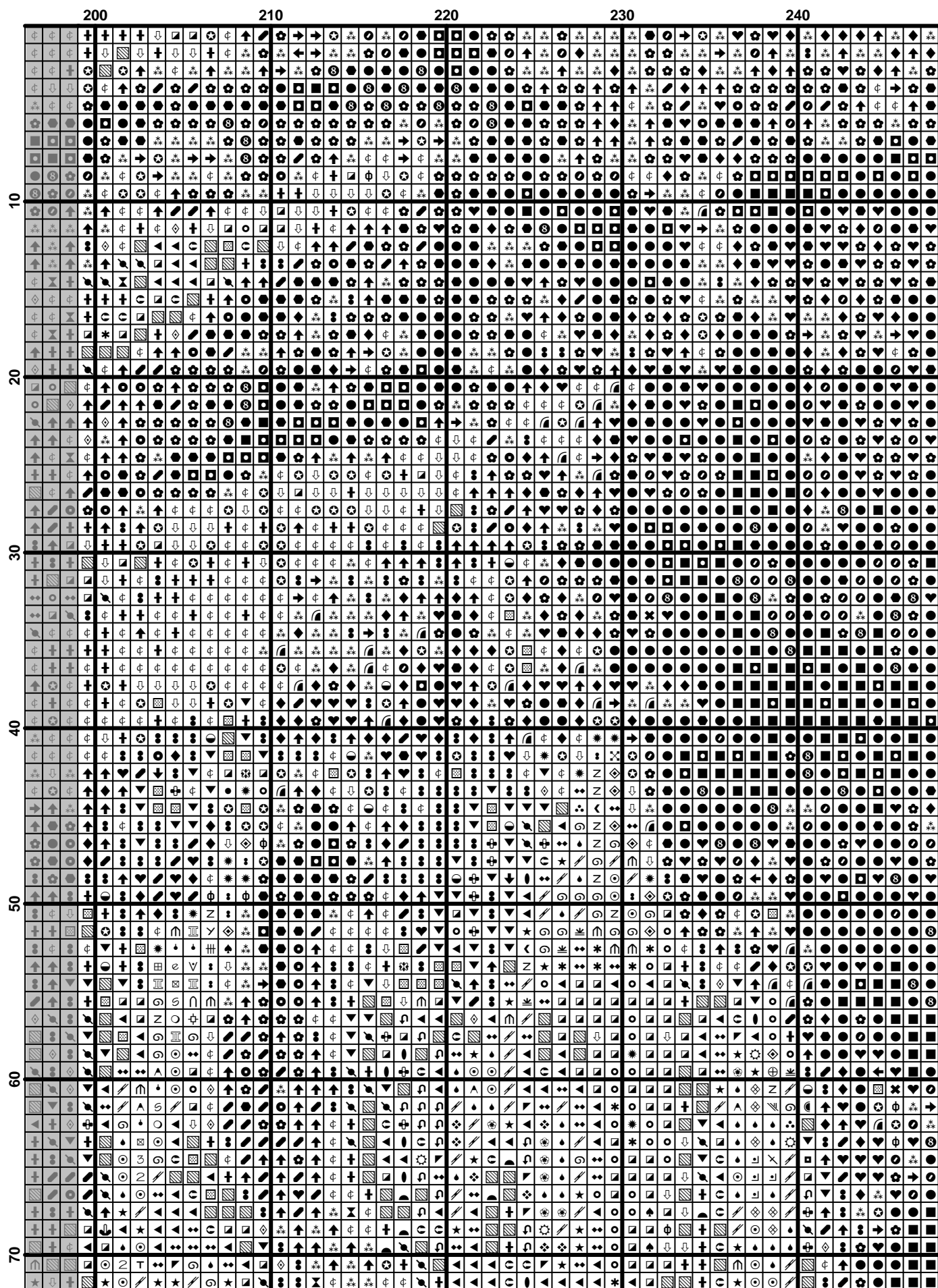
926	Gray Green-MD	35	14	33	13	31	12
927	Gray Green-LT	73	28	68	26	64	25
928	Gray Green-VY LT	178	70	166	65	156	61
934	Black Avocado Green	780	307	728	286	683	268
935	Avocado Green-DK	548	215	512	201	480	188
936	Avocado Green-VY DK	178	70	166	65	156	61
937	Avocado Green-MD	182	71	170	67	159	62
938	Coffee Brown-UL DK	103	40	96	37	90	35
950	Desert Sand-LT	709	279	662	260	620	244
951	Tawny-LT	365	143	340	134	319	125
955	Nile Green-LT	6	2	6	2	6	2
963	Dusty Rose-UL VY LT	223	87	208	82	195	77
3011	Khaki Green-DK	948	373	885	348	830	326
3012	Khaki Green-MD	359	141	335	131	314	123
3013	Khaki Green-LT	73	28	68	26	64	25
3021	Brown Gray -VY DK	2512	989	2344	923	2198	865
3022	Brown Gray -MD	226	89	211	83	198	78
3023	Brown Gray -LT	275	108	256	101	240	95
3031	Mocha Brown-VY DK	1075	423	1003	395	941	370
3032	Mocha Brown-MD	903	355	842	331	790	311
3033	Mocha Brown-VY LT	373	147	348	137	326	128
3046	Yellow Beige-MD	69	27	65	25	61	24
3047	Yellow Beige-LT	23	9	22	8	20	8
3052	Green Gray-MD	876	345	818	322	767	302
3053	Green Gray	268	105	250	98	235	92
3072	Beaver Gray-VY LT	195	77	182	71	171	67
3346	Hunter Green	1242	489	1159	456	1087	428
3347	Yellow Green-MD	856	337	799	314	749	295
3348	Yellow Green-LT	271	106	253	99	237	93
3362	Pine Green-DK	639	251	596	235	559	220
3363	Pine Green-MD	559	220	522	205	489	192
3364	Pine Green	547	215	511	201	479	188
3371	Black Brown	625	246	583	229	547	215
3756	Baby Blue-UL VY LT	459	181	428	169	402	158
3770	Tawny -VY LT	253	99	236	92	221	87
3772	Desert Sand-VY DK	725	285	676	266	634	249
3781	Mocha Brown-DK	429	168	400	157	375	147
3782	Mocha Brown-LT	1353	532	1263	497	1184	466
3787	Brown Gray -DK	2001	788	1868	735	1751	689
3790	Beige Gray-UL DK	548	215	512	201	480	188
3799	Pewter Gray -VY DK	1977	779	1846	727	1730	681
3828	Hazelnut Brown	105	41	98	38	92	36
3856	Mahogany-UL VY LT	30	12	28	11	26	10
3860	Cocoa	683	269	638	251	598	235
3861	Cocoa-LT	566	222	528	208	495	195
3862	Mocha Beige-DK	401	158	374	147	351	138
3863	Mocha Beige-MD	223	87	208	82	195	77
3864	Mocha Beige-LT	1464	576	1367	538	1281	504
3865	Winter White	865	340	807	317	757	298
3866	Mocha Brown-UL VY LT	1745	687	1629	641	1527	601
ecru	Ecru	831	327	775	305	727	286

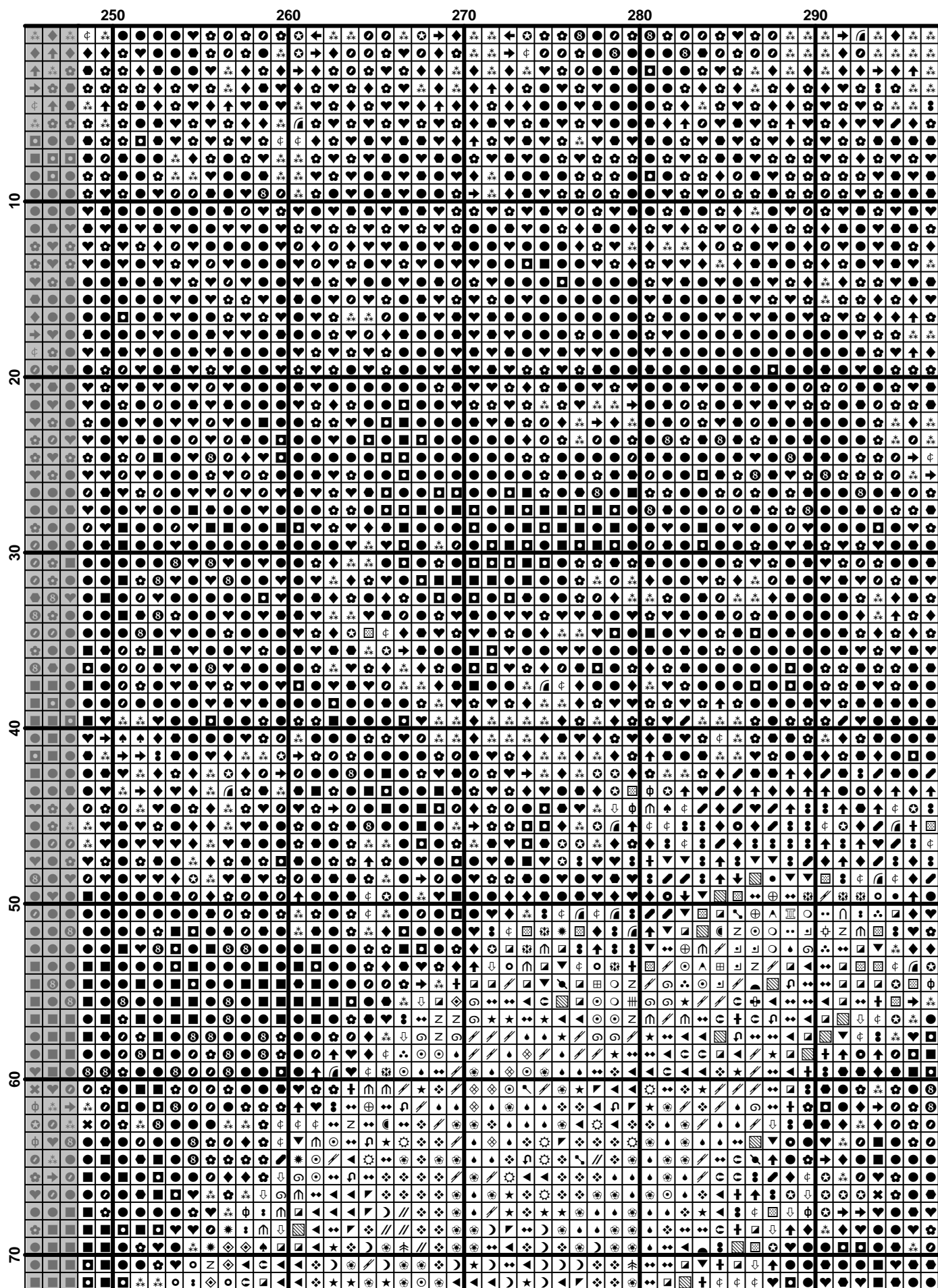


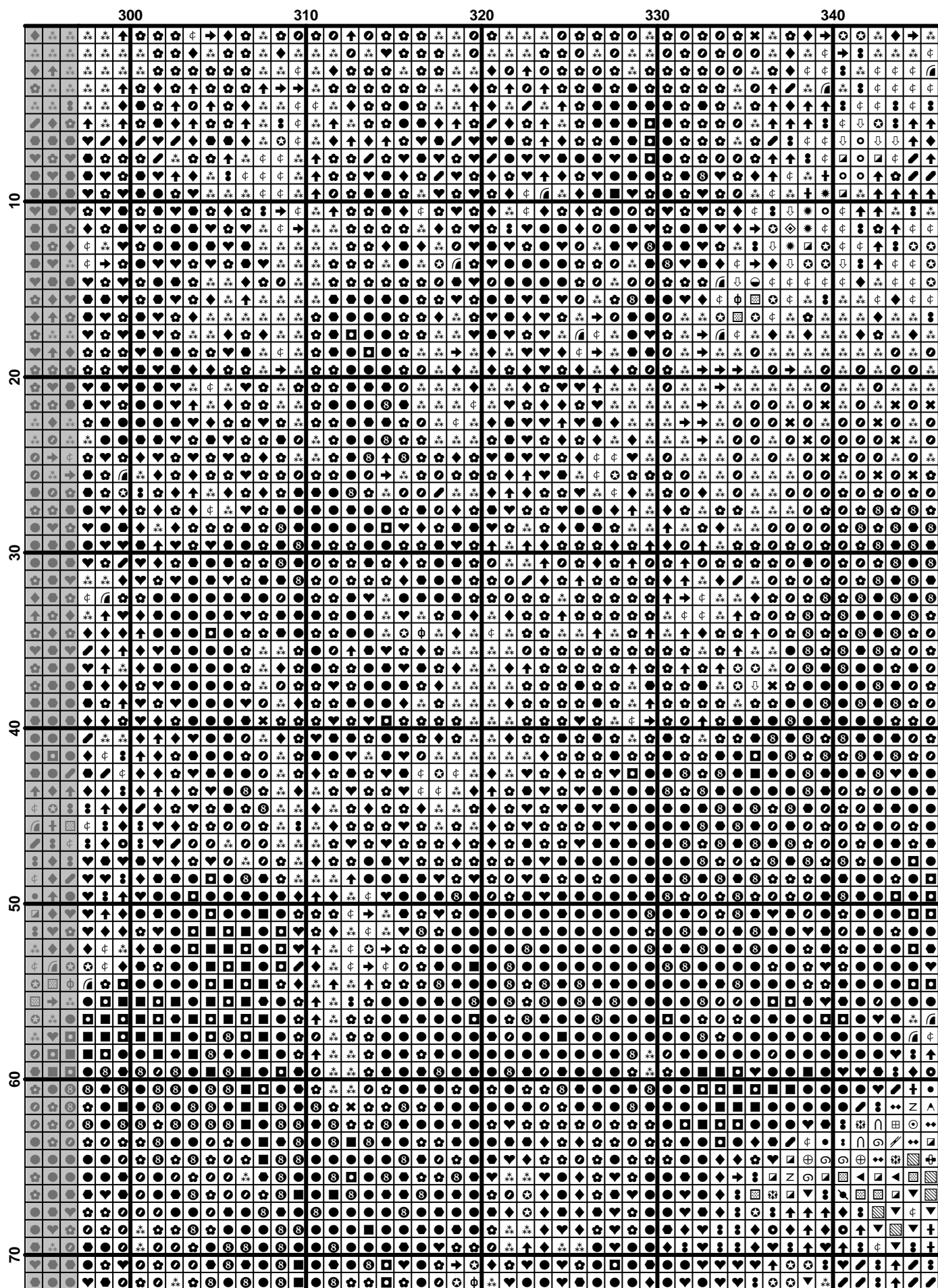


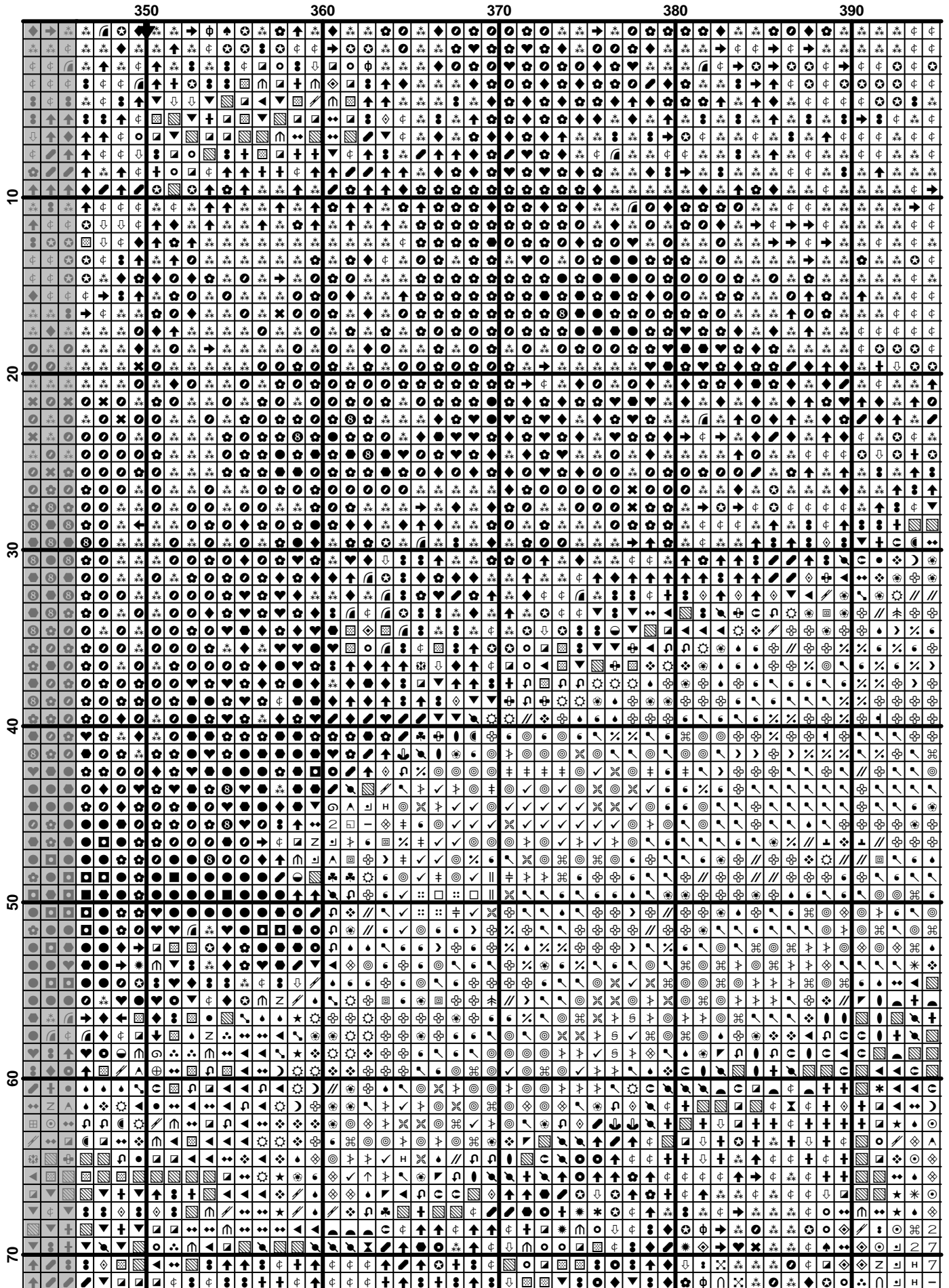


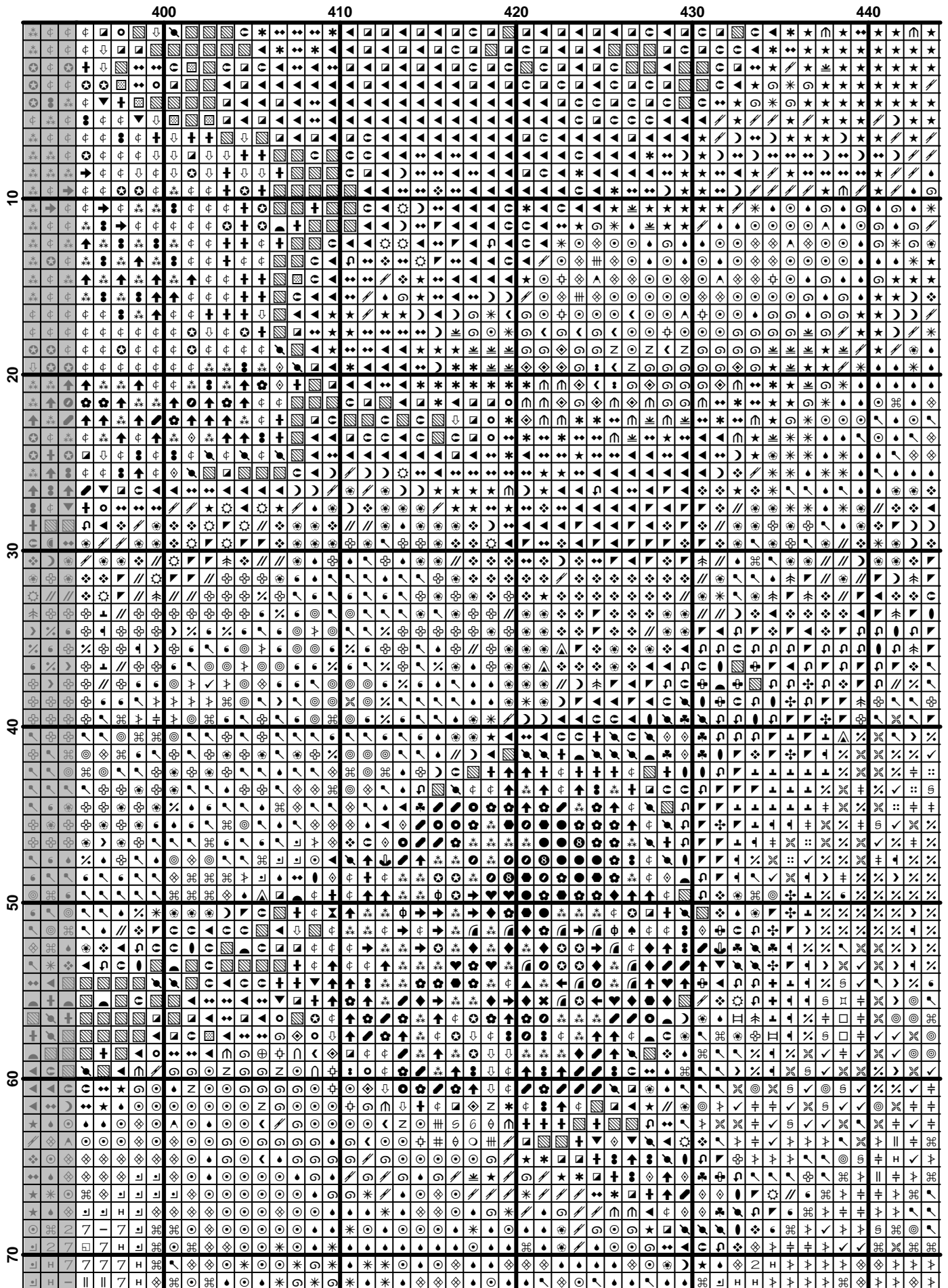


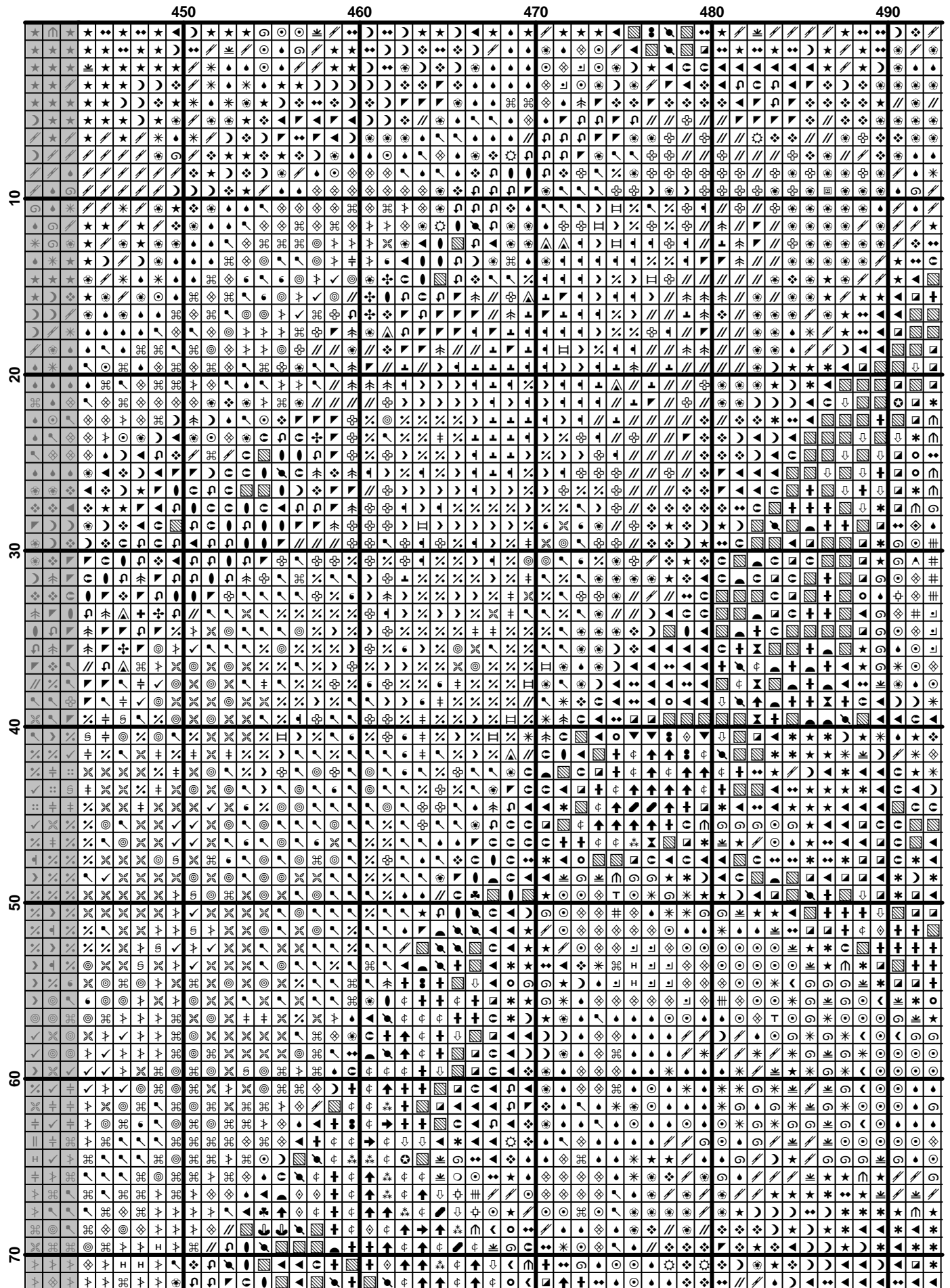










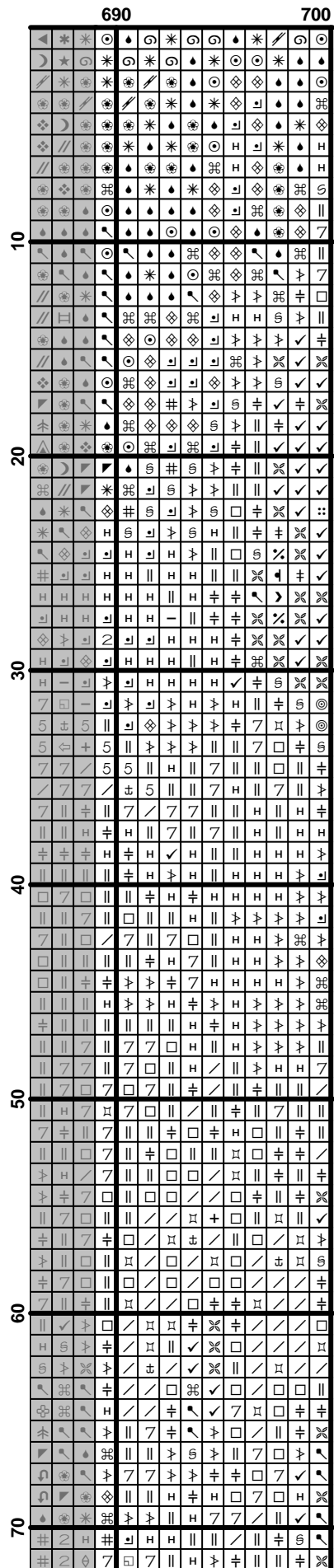


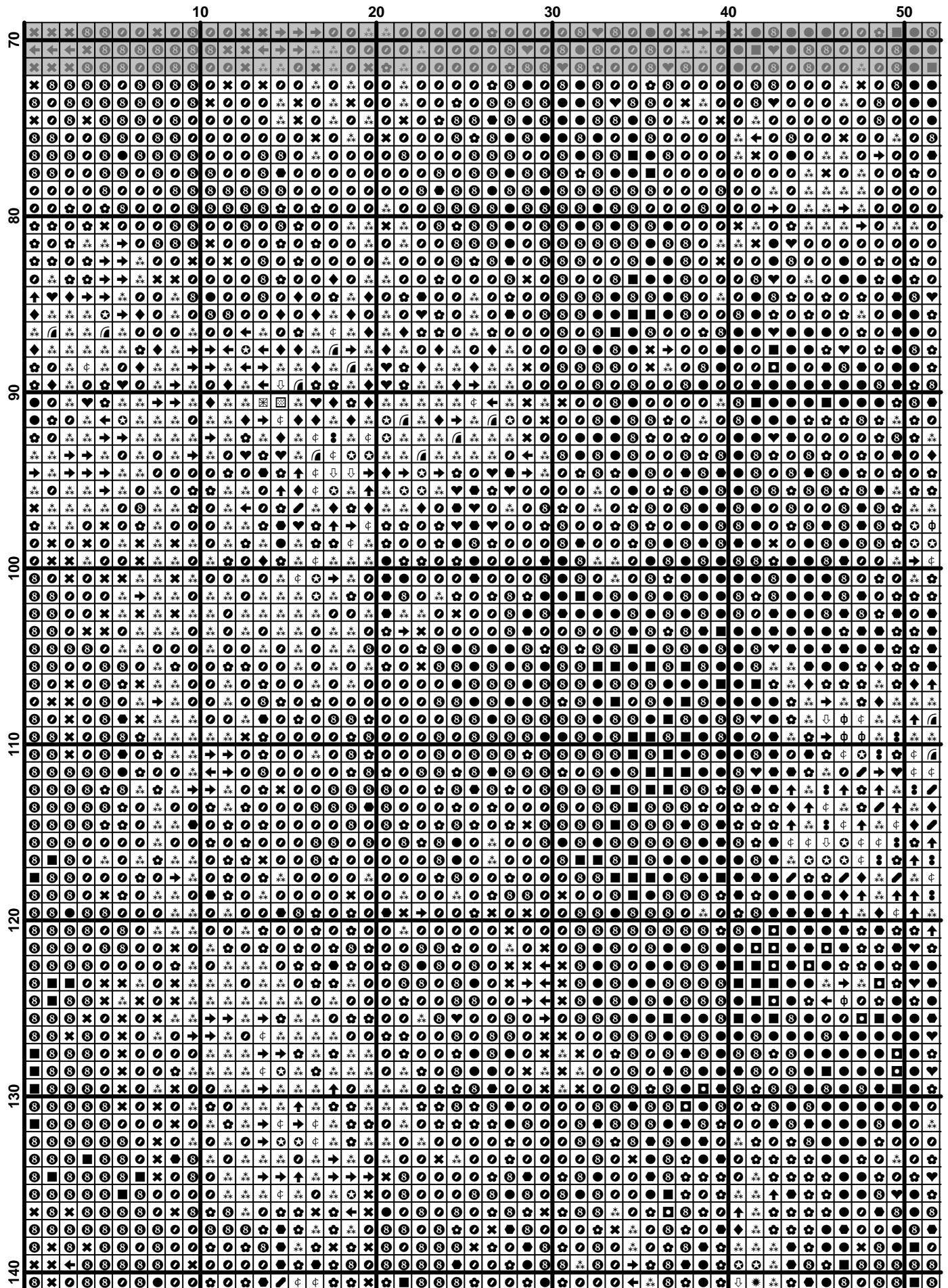
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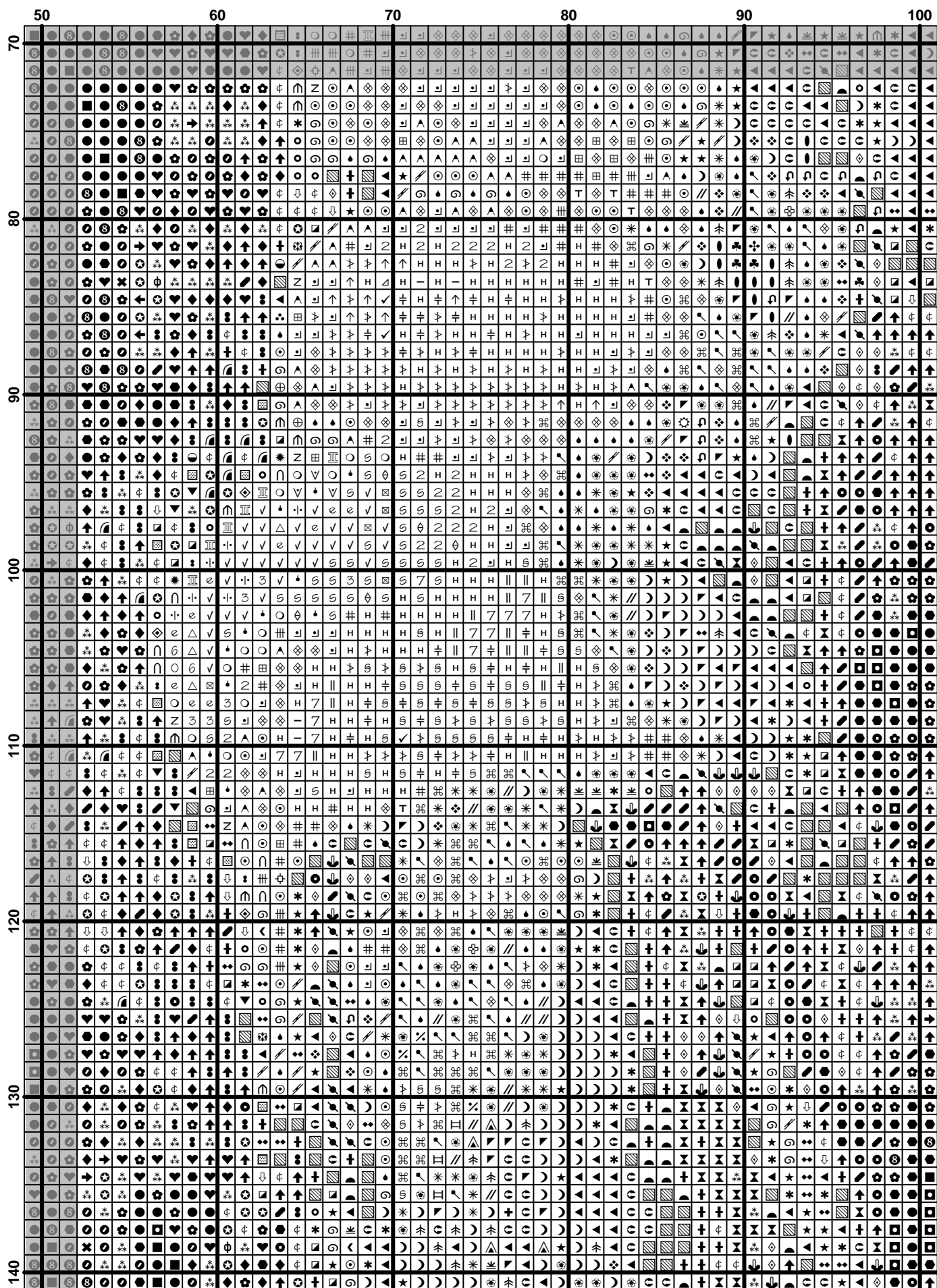
(28)

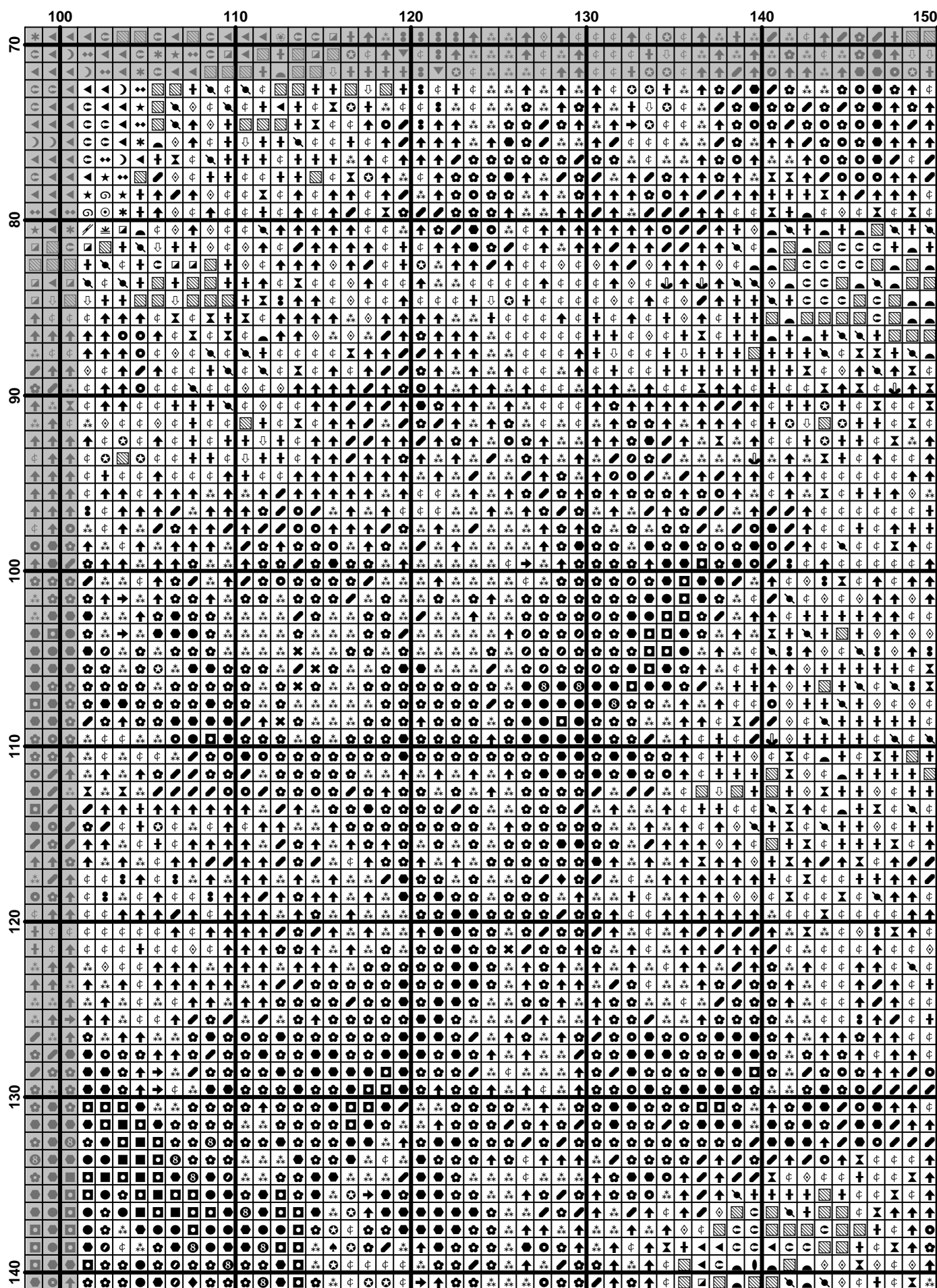
$$(28) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

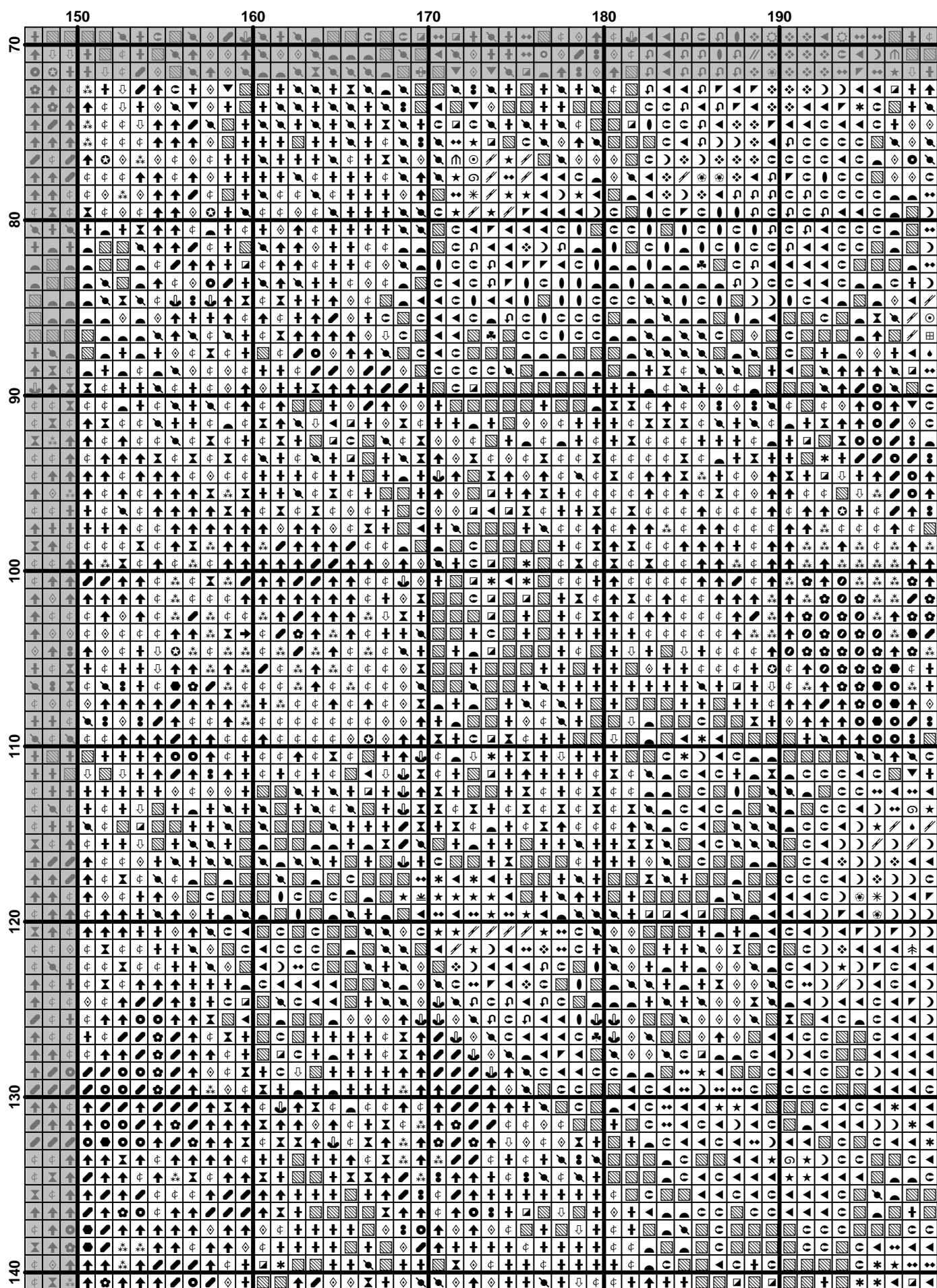
	640	650	660	670	680
10
20
30
40
50
60
70

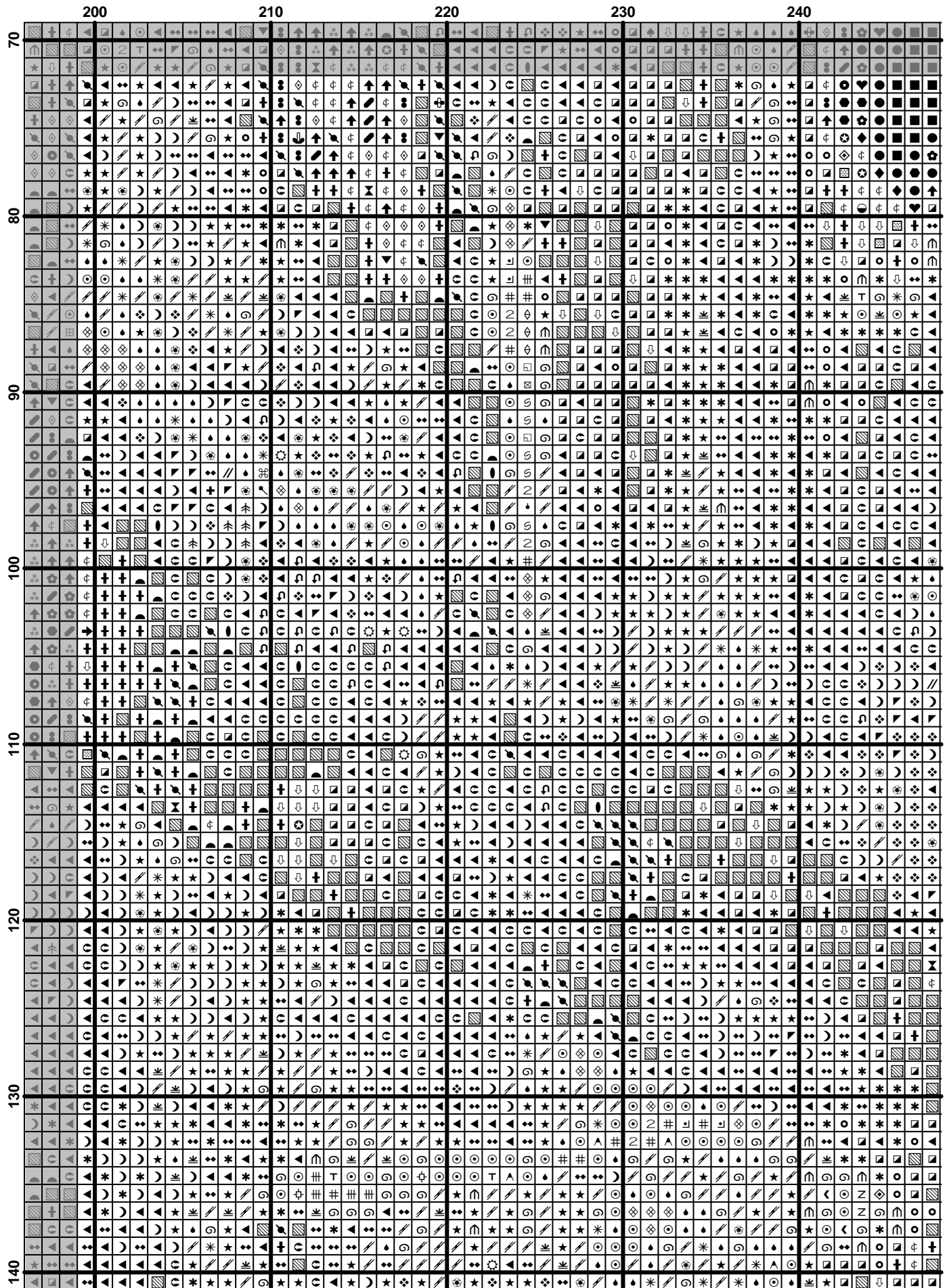




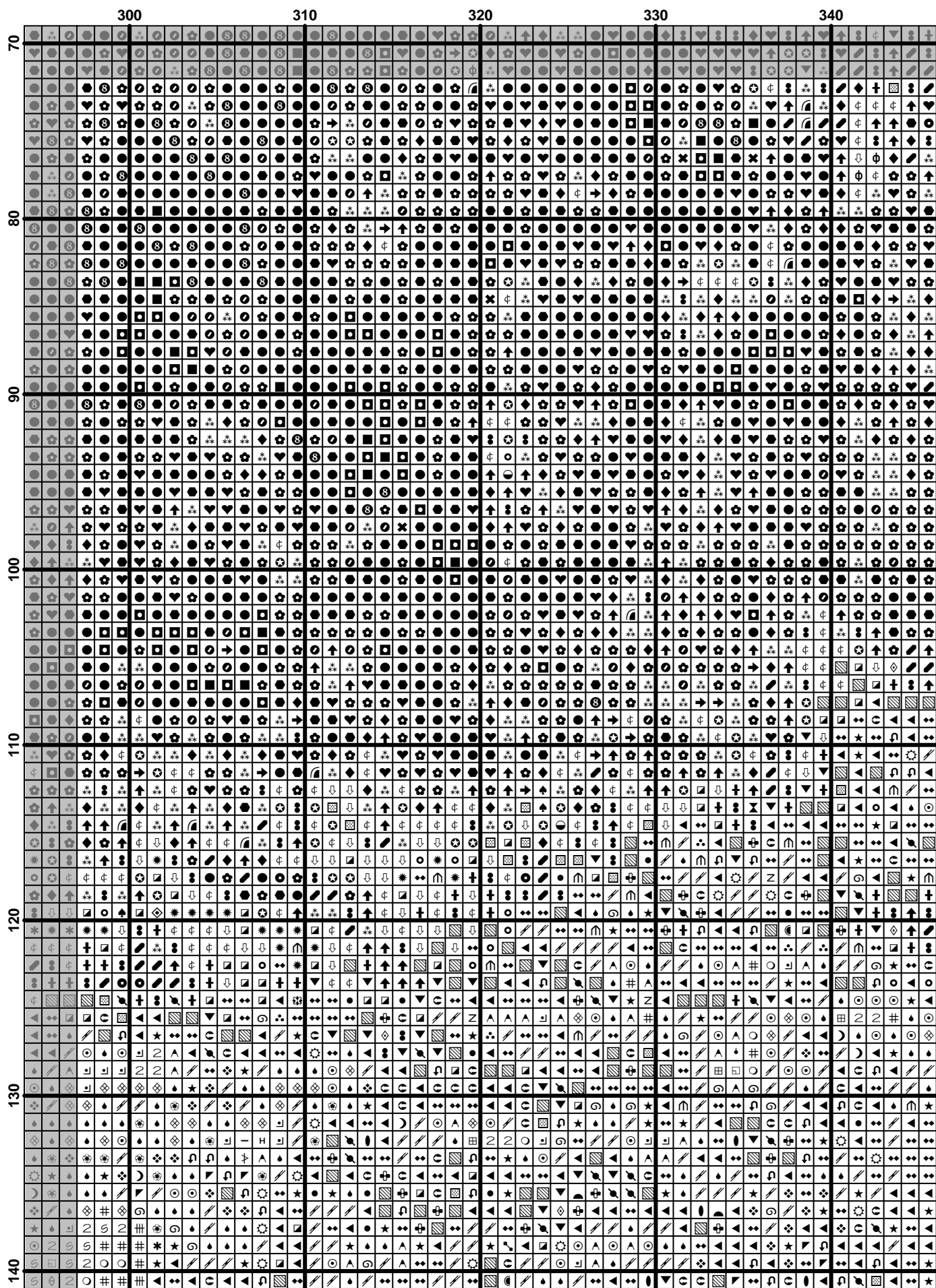


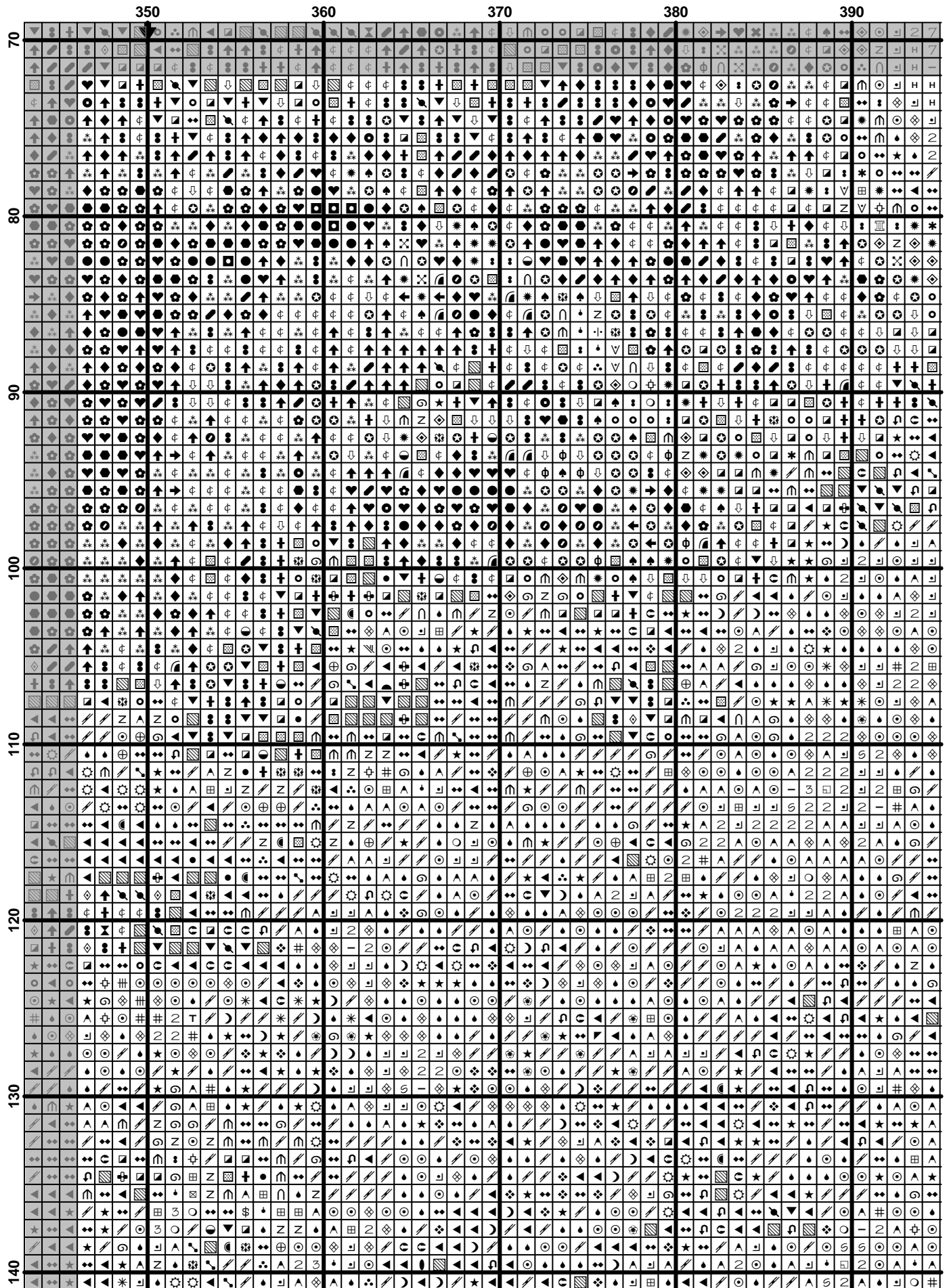


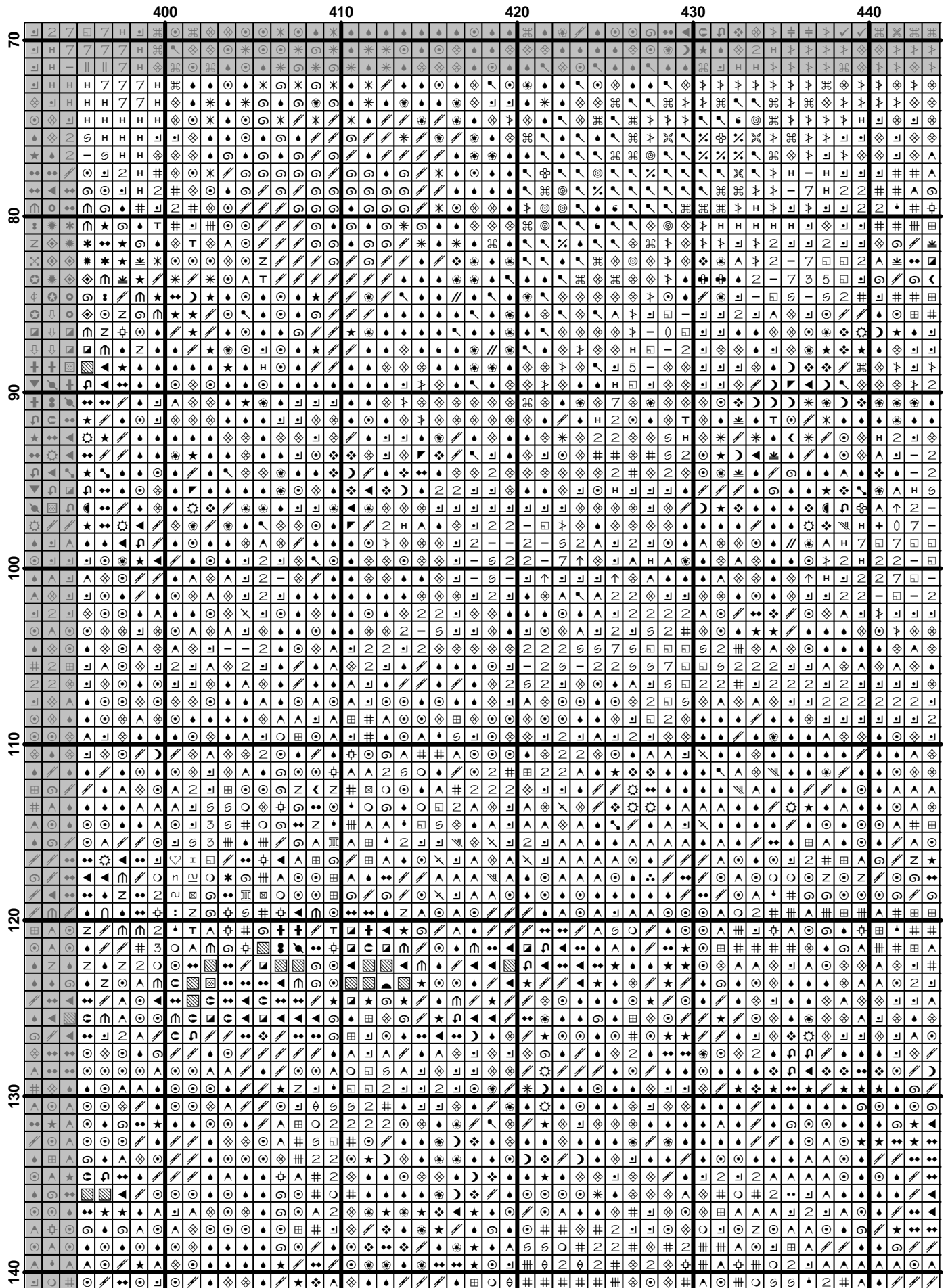






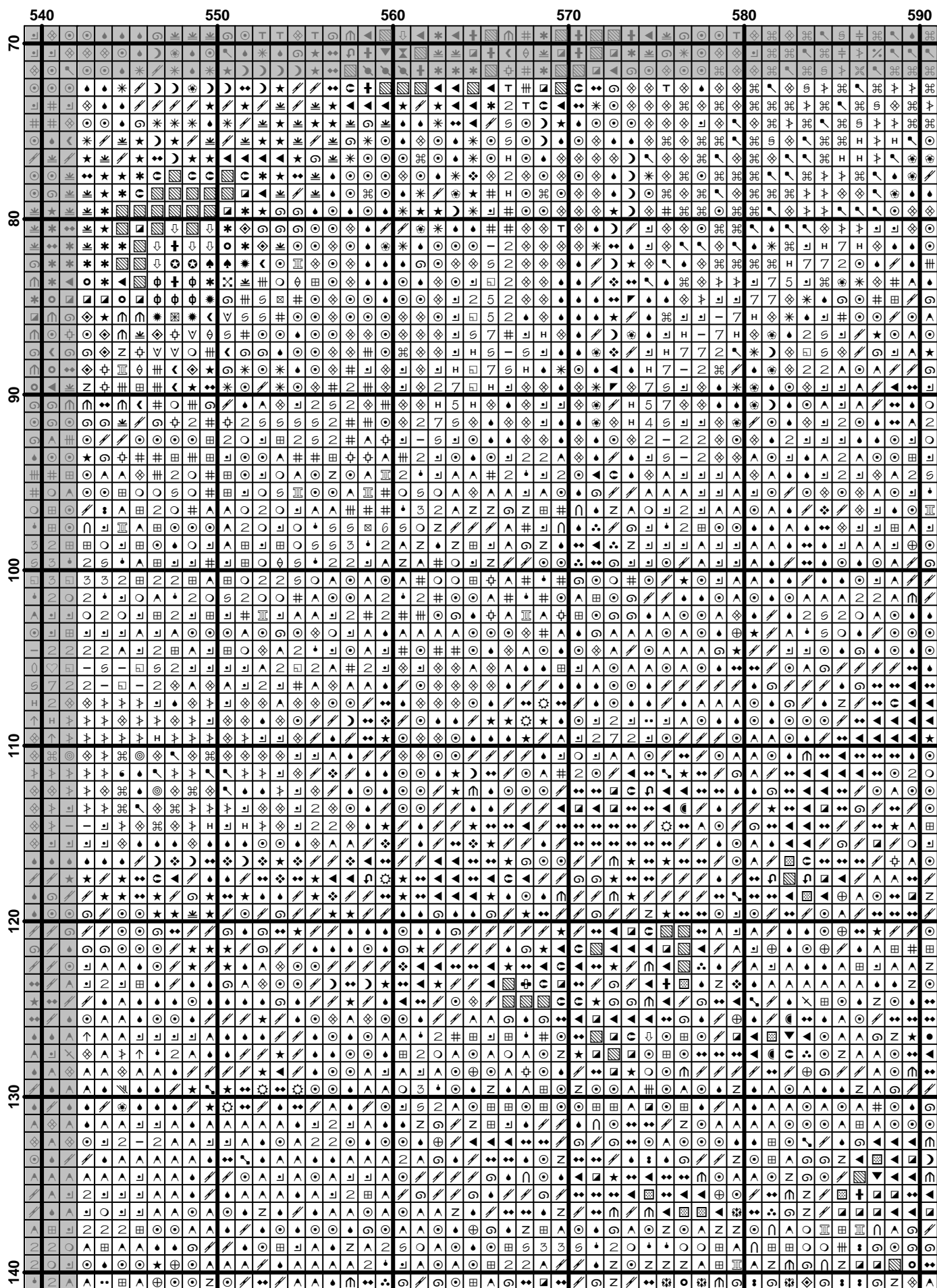






	450	460	470	480	490
70					
80					
90					
100					
110					
120					
130					
140					

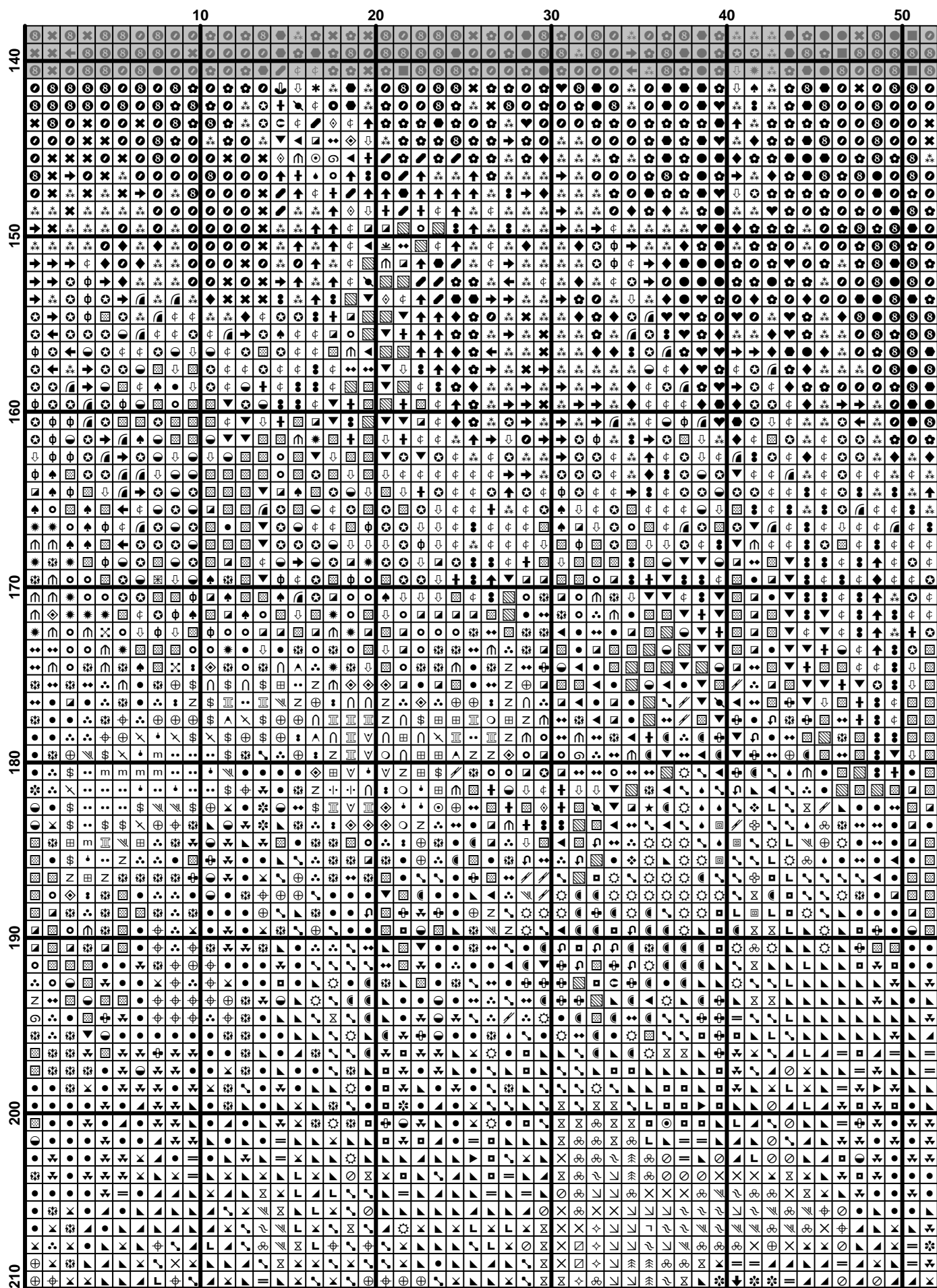
(42)

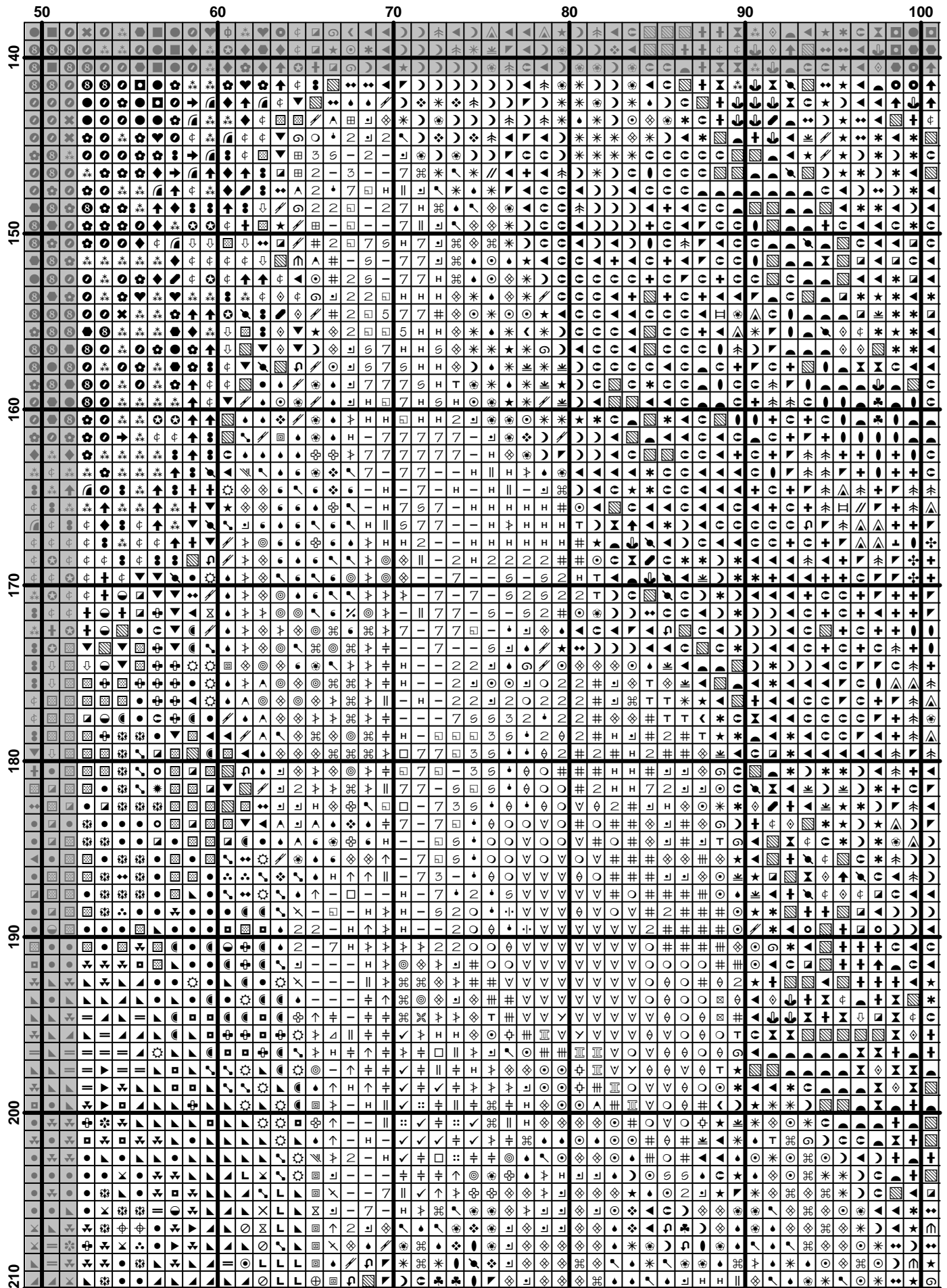


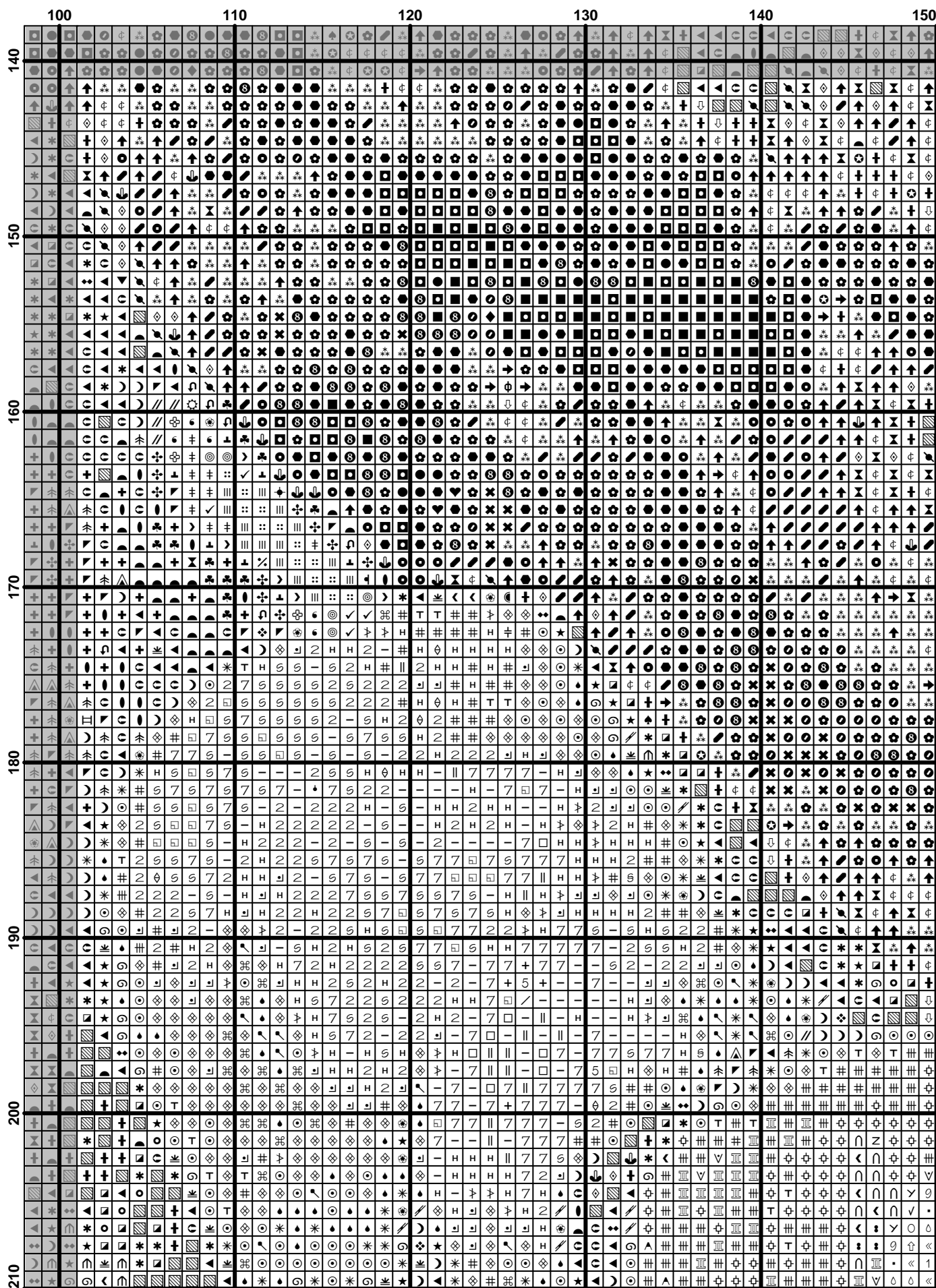
	590	600	610	620	630	640
70						
80						
90						
100						
110						
120						
130						
140						

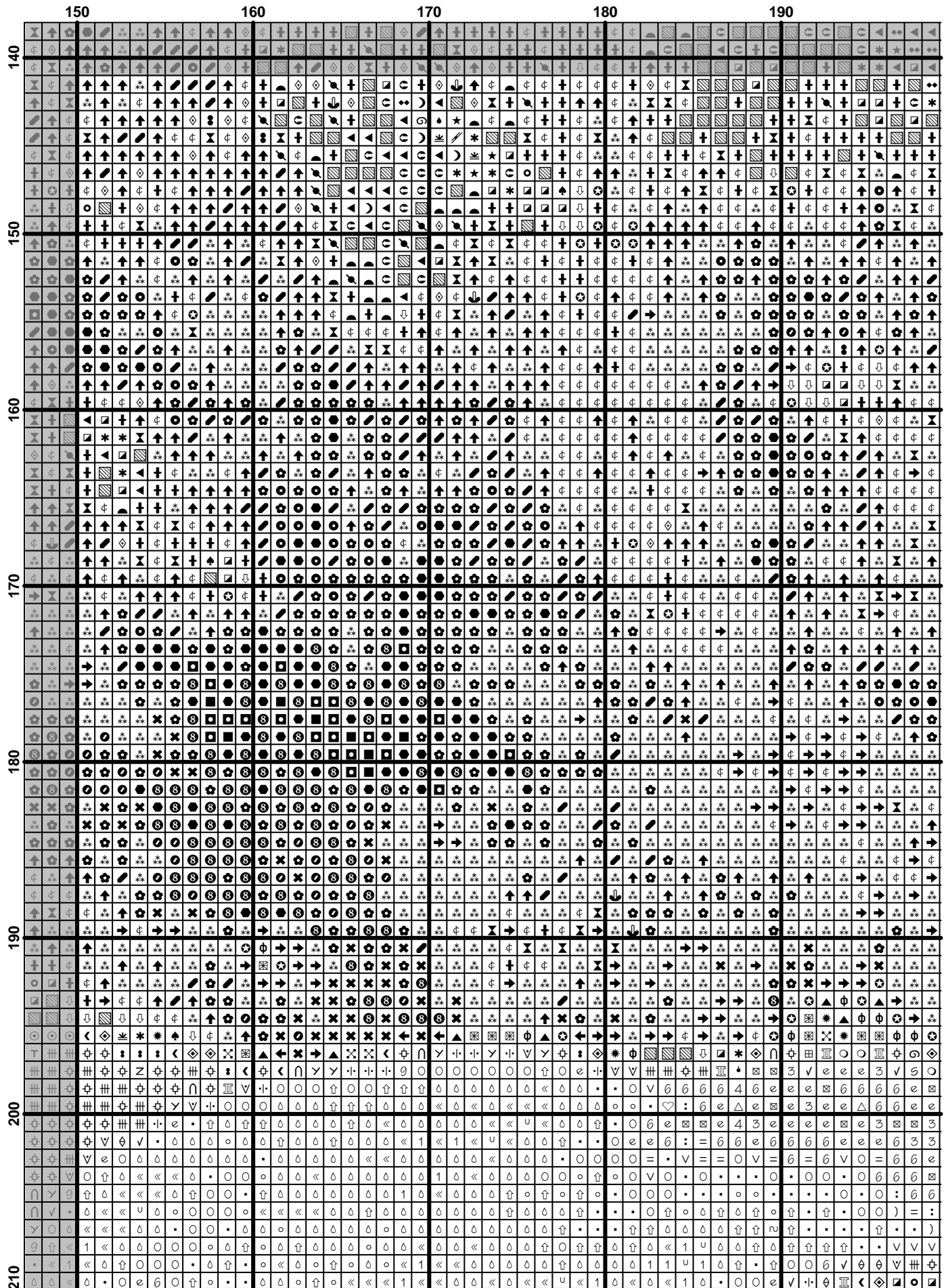
	640	650	660	670	680
70
80
90
100
110
120
130
140

[illegible]



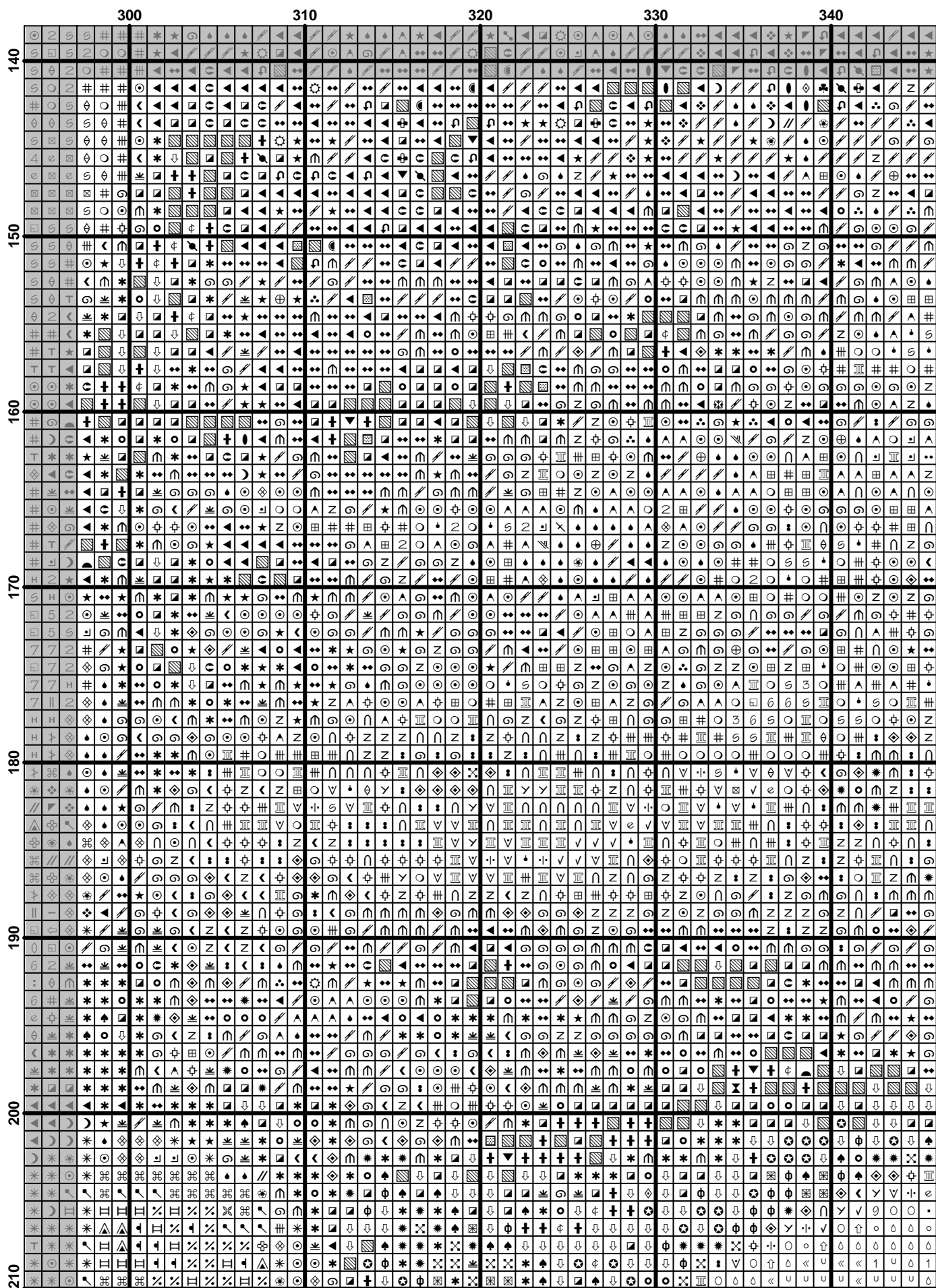


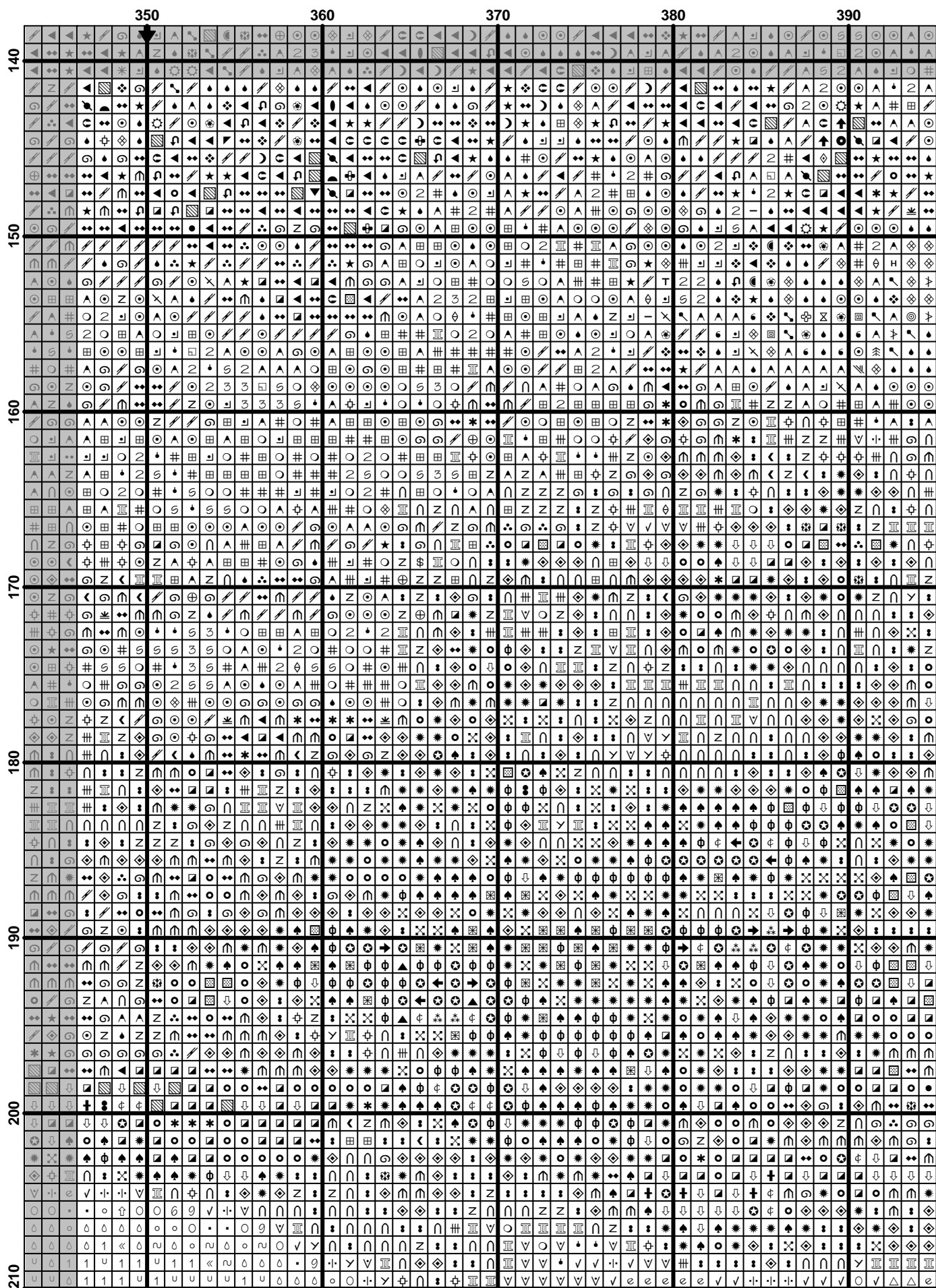


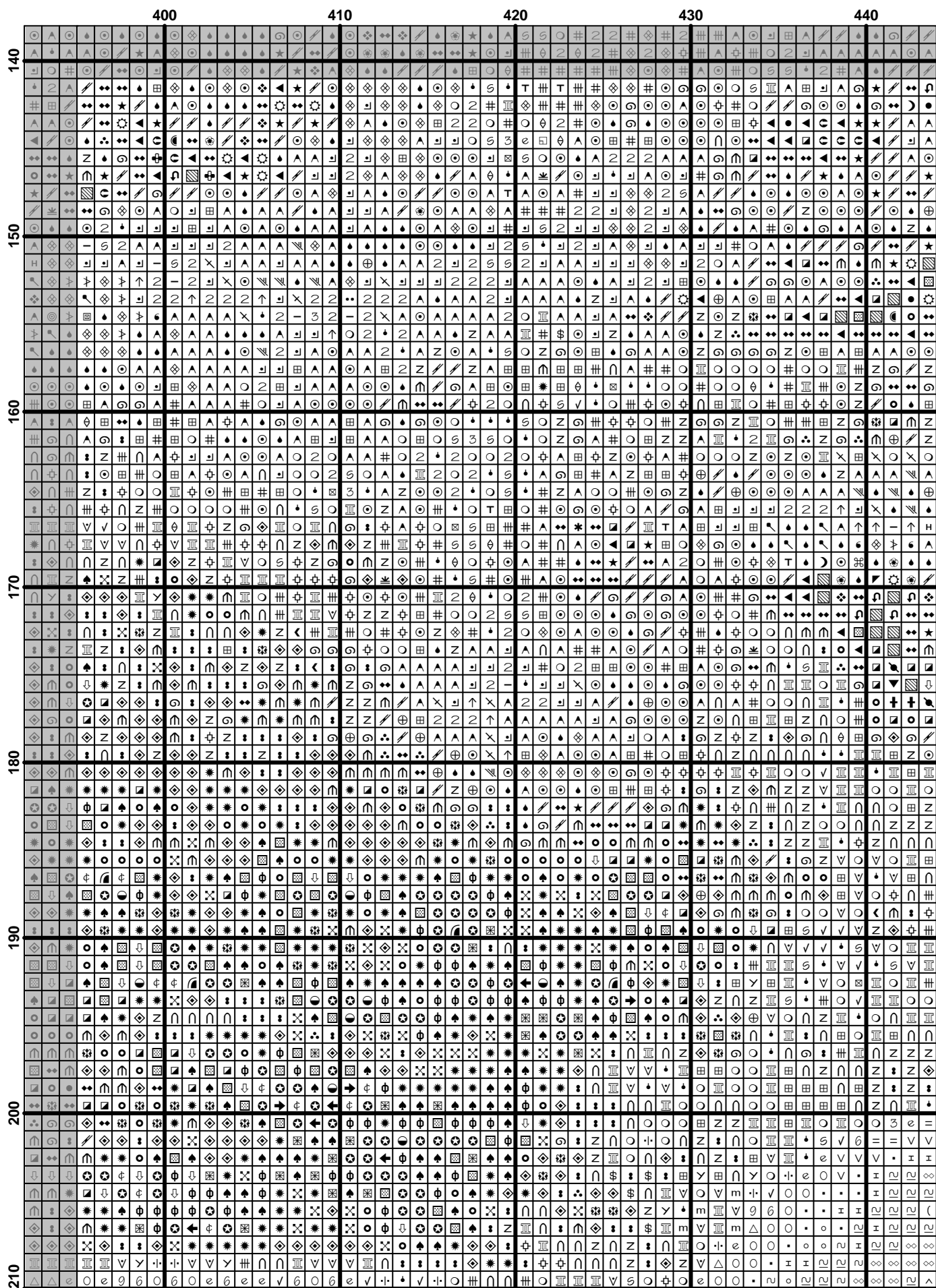


	200	210	220	230	240
140
150
160
170
180
190
200
210

	250	260	270	280	290
140
150
160
170
180
190
200
210



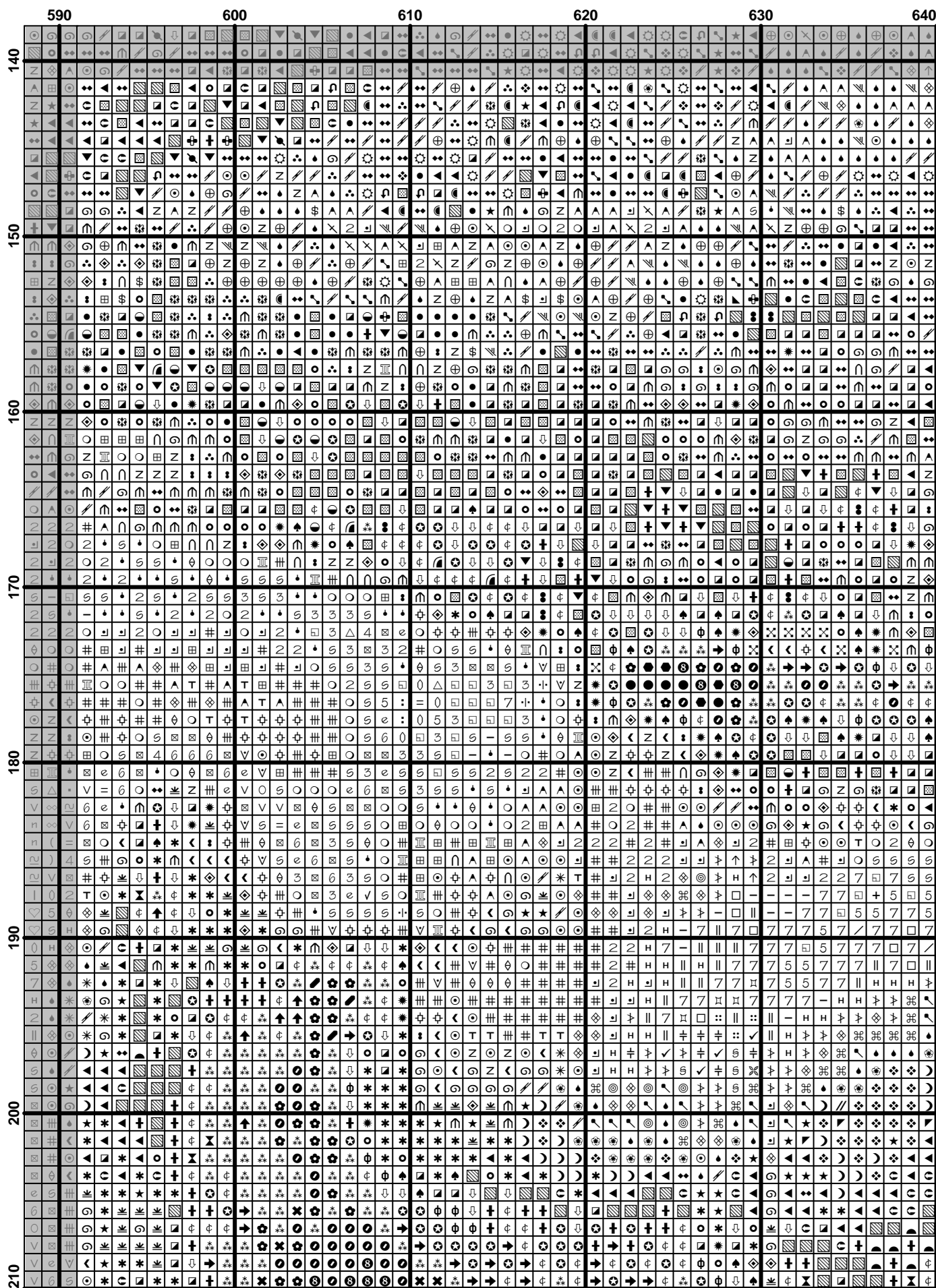




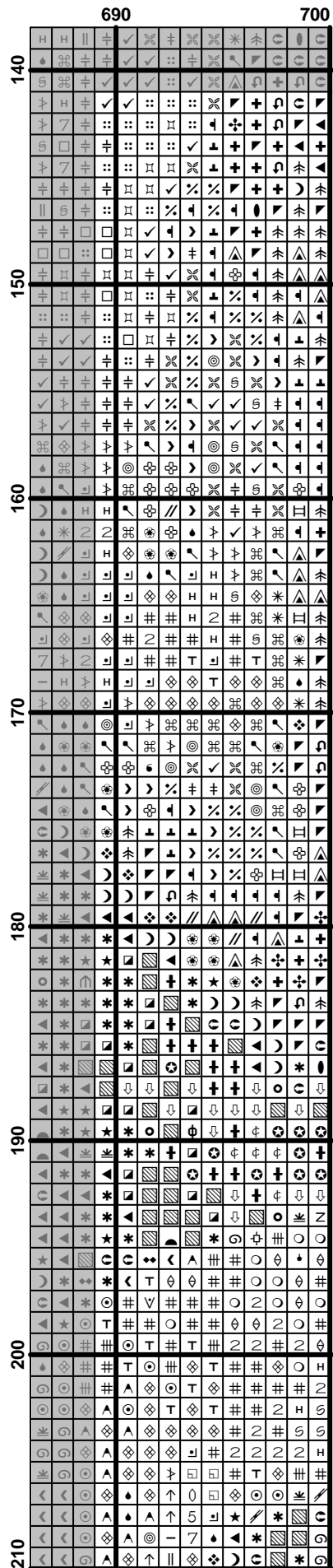
	450	460	470	480	490
140
150
160
170
180
190
200
210

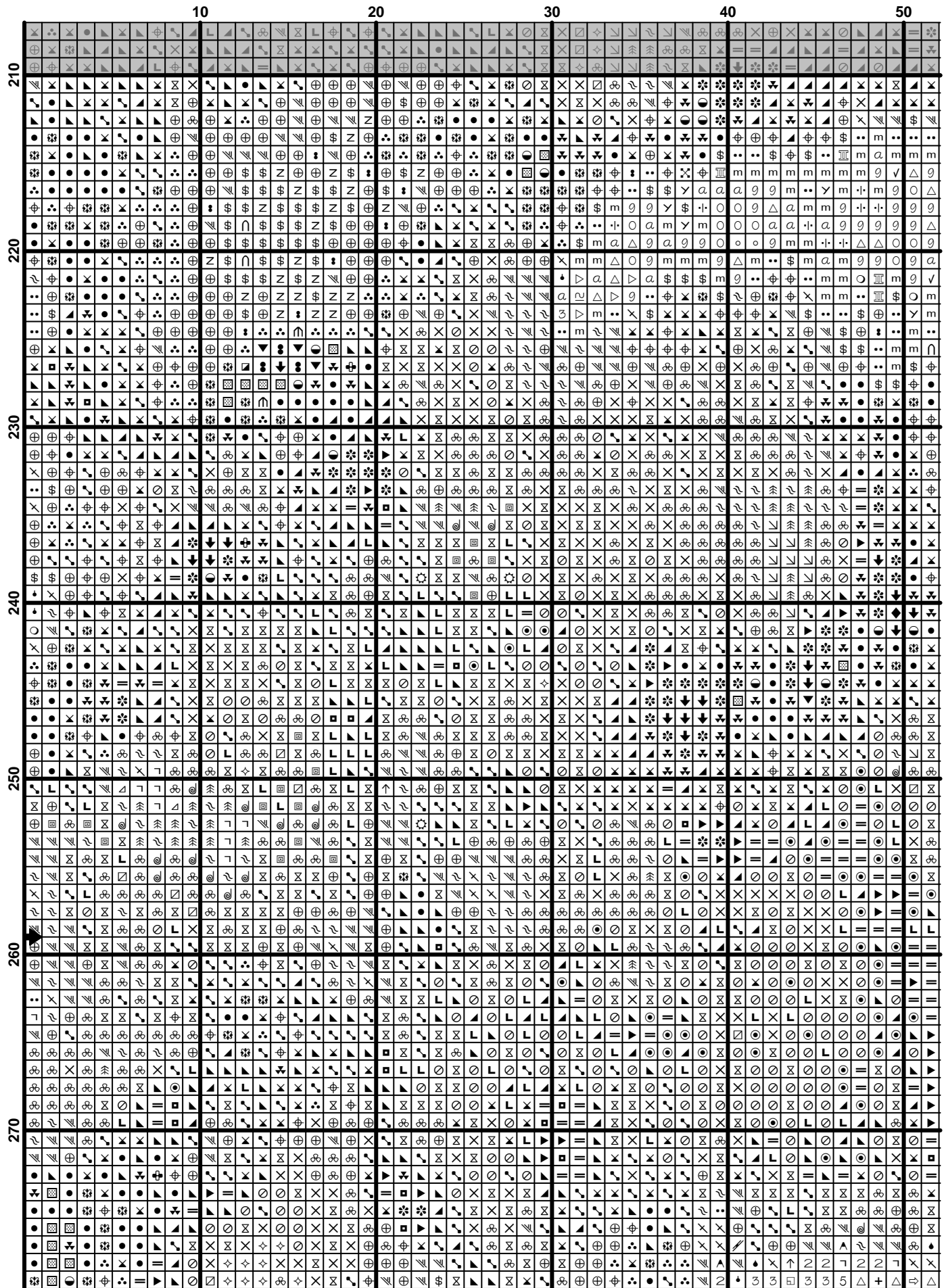
	490	500	510	520	530	540
140	⌘	⌘	⌘	⌘	⌘	⌘
150	⌘	⌘	⌘	⌘	⌘	⌘
160	⌘	⌘	⌘	⌘	⌘	⌘
170	⌘	⌘	⌘	⌘	⌘	⌘
180	⌘	⌘	⌘	⌘	⌘	⌘
190	⌘	⌘	⌘	⌘	⌘	⌘
200	⌘	⌘	⌘	⌘	⌘	⌘
210	⌘	⌘	⌘	⌘	⌘	⌘

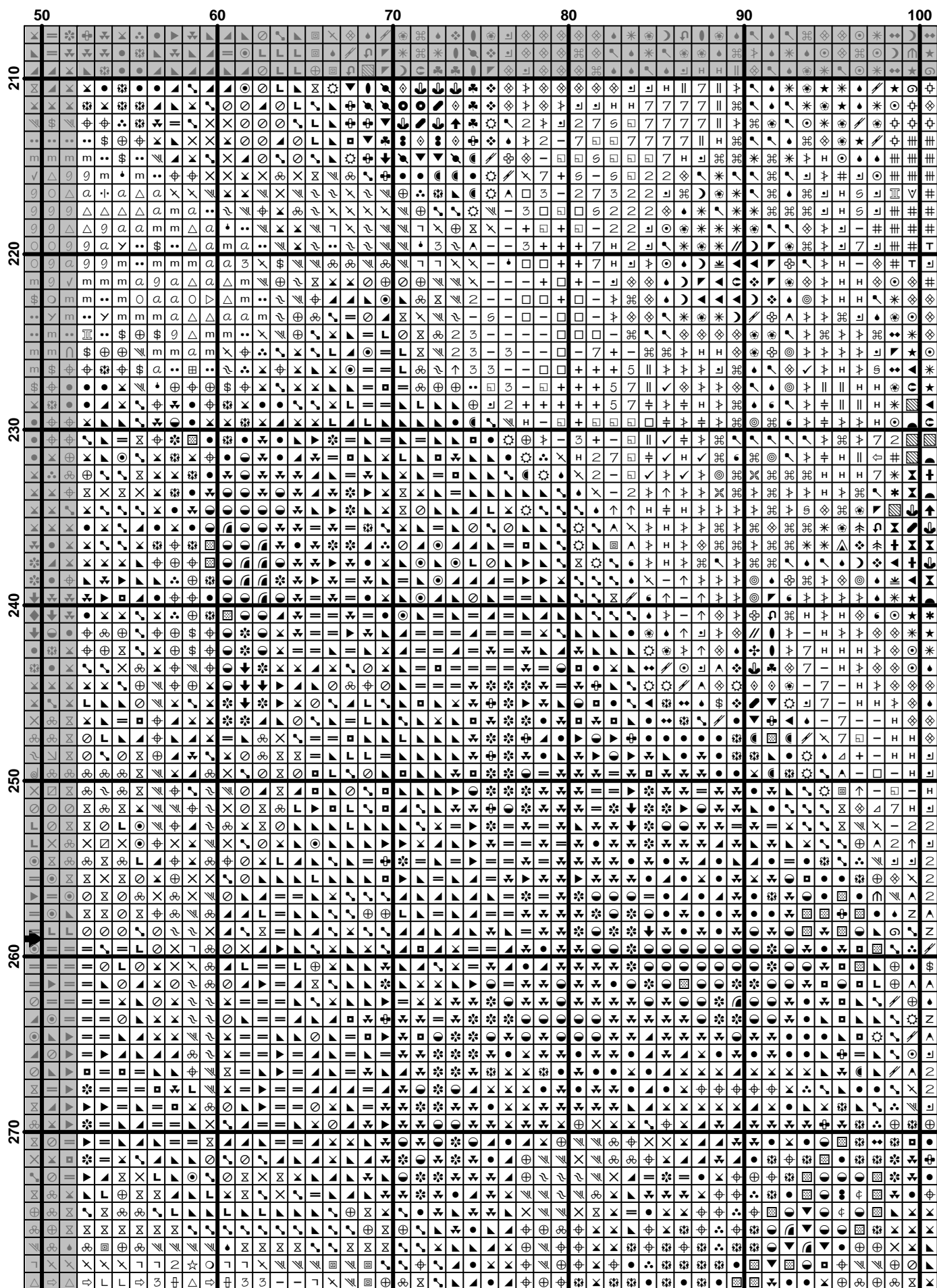
[illegible]



[illegible]







	100	110	120	130	140	150
210
220
230
240
250
260
270

$$(64) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

(66)

	250	260	270	280	290
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	+	+	+	+	+
550	+	+	+	+	+
560	+	+	+	+	+
570	+	+	+	+	+
580	+	+	+	+	+
590	+	+	+	+	+
600	+	+	+	+	+
610	+	+	+	+	+
620	+	+	+	+	+
630	+	+	+	+	+
640	+	+	+	+	+
650	+	+	+	+	+
660	+	+	+	+	+
670	+	+	+	+	+
680	+	+	+	+	+
690	+	+	+	+	+
700	+	+	+	+	+
710	+	+	+	+	+
720	+	+	+	+	+
730	+	+	+	+	+
740	+	+	+	+	+
750	+	+	+	+	+
760	+	+	+	+	+
770	+	+	+	+	+
780	+	+	+	+	+
790	+	+	+	+	+
800	+	+	+	+	+
810	+	+	+	+	+
820	+	+	+	+	+
830	+	+	+	+	+
840	+	+	+	+	+
850	+	+	+	+	+
860	+	+	+	+	+
870	+	+	+	+	+
880	+	+	+	+	+
890	+	+	+	+	+
900	+	+	+	+	+
910	+	+	+	+	+
920	+	+	+	+	+
930	+	+	+	+	+
940	+	+	+	+	+
950	+	+	+	+	+
960	+	+	+	+	+
970	+	+	+	+	+
980	+	+	+	+	+
990	+	+	+	+	+
1000	+	+	+	+	+

$$(67) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

	350	360	370	380	390
210	u	u	u	u	u
220	u	u	u	u	u
230	u	u	u	u	u
240	u	u	u	u	u
250	u	u	u	u	u
260	u	u	u	u	u
270	u	u	u	u	u
280	u	u	u	u	u
290	u	u	u	u	u
300	u	u	u	u	u
310	u	u	u	u	u
320	u	u	u	u	u
330	u	u	u	u	u
340	u	u	u	u	u
350	u	u	u	u	u
360	u	u	u	u	u
370	u	u	u	u	u
380	u	u	u	u	u
390	u	u	u	u	u
400	u	u	u	u	u
410	u	u	u	u	u
420	u	u	u	u	u
430	u	u	u	u	u
440	u	u	u	u	u
450	u	u	u	u	u
460	u	u	u	u	u
470	u	u	u	u	u
480	u	u	u	u	u
490	u	u	u	u	u
500	u	u	u	u	u
510	u	u	u	u	u
520	u	u	u	u	u
530	u	u	u	u	u
540	u	u	u	u	u
550	u	u	u	u	u
560	u	u	u	u	u
570	u	u	u	u	u
580	u	u	u	u	u
590	u	u	u	u	u
600	u	u	u	u	u
610	u	u	u	u	u
620	u	u	u	u	u
630	u	u	u	u	u
640	u	u	u	u	u
650	u	u	u	u	u
660	u	u	u	u	u
670	u	u	u	u	u
680	u	u	u	u	u
690	u	u	u	u	u
700	u	u	u	u	u
710	u	u	u	u	u
720	u	u	u	u	u
730	u	u	u	u	u
740	u	u	u	u	u
750	u	u	u	u	u
760	u	u	u	u	u
770	u	u	u	u	u
780	u	u	u	u	u
790	u	u	u	u	u
800	u	u	u	u	u
810	u	u	u	u	u
820	u	u	u	u	u
830	u	u	u	u	u
840	u	u	u	u	u
850	u	u	u	u	u
860	u	u	u	u	u
870	u	u	u	u	u
880	u	u	u	u	u
890	u	u	u	u	u
900	u	u	u	u	u
910	u	u	u	u	u
920	u	u	u	u	u
930	u	u	u	u	u
940	u	u	u	u	u
950	u	u	u	u	u
960	u	u	u	u	u
970	u	u	u	u	u
980	u	u	u	u	u
990	u	u	u	u	u
1000	u	u	u	u	u

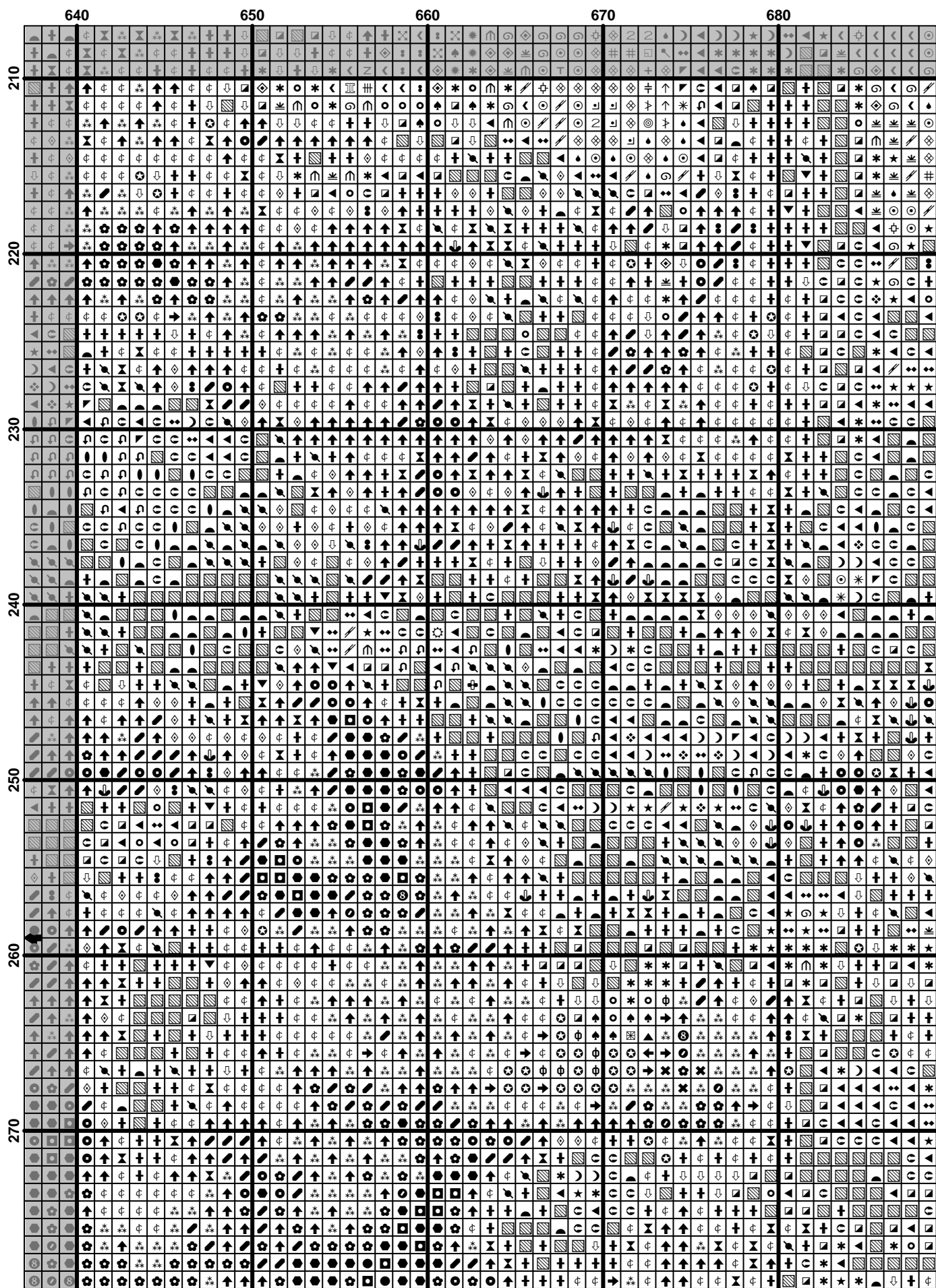
	400	410	420	430	440
210
220
230
240
250
260
270

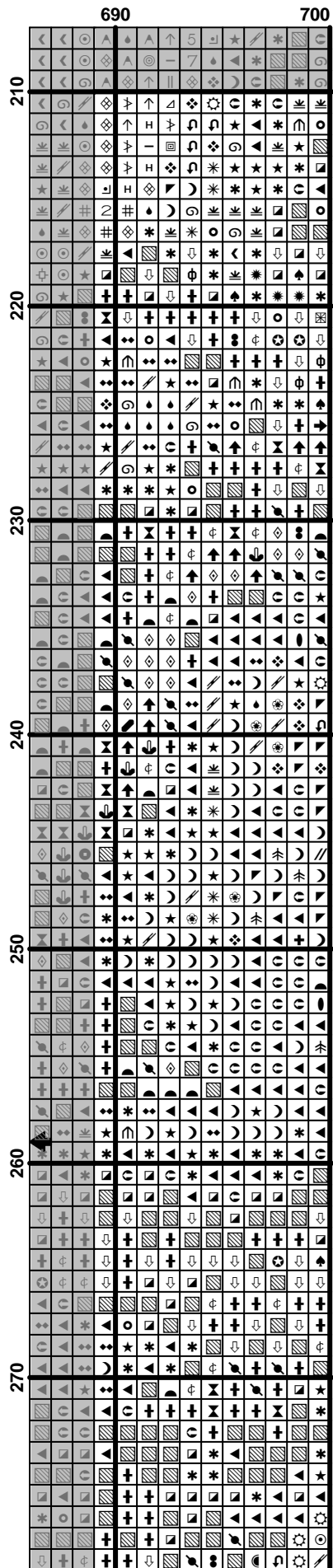
	450	460	470	480	490
210
220
230
240
250
260
270

[illegible]

[illegible]

(74)



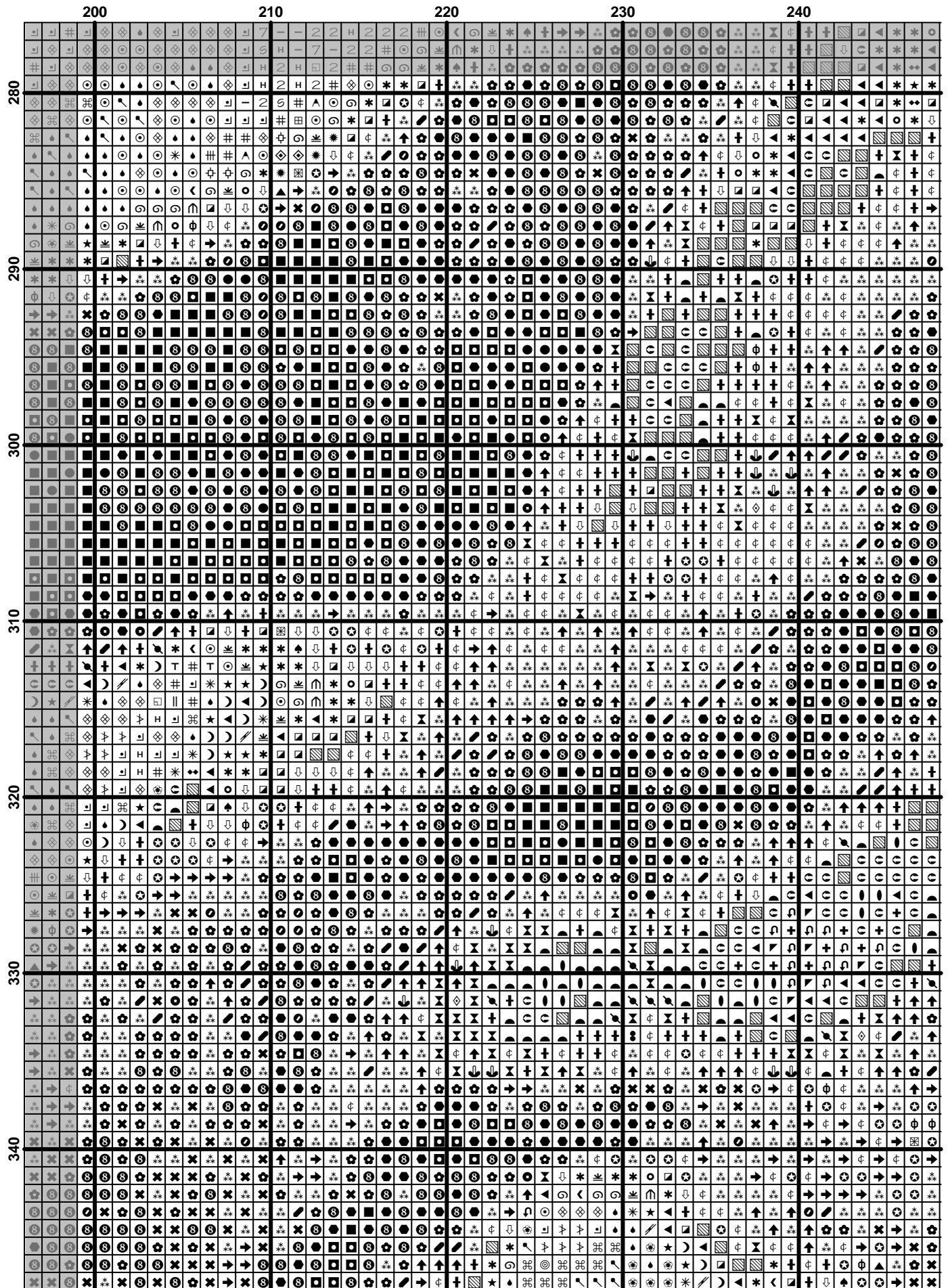


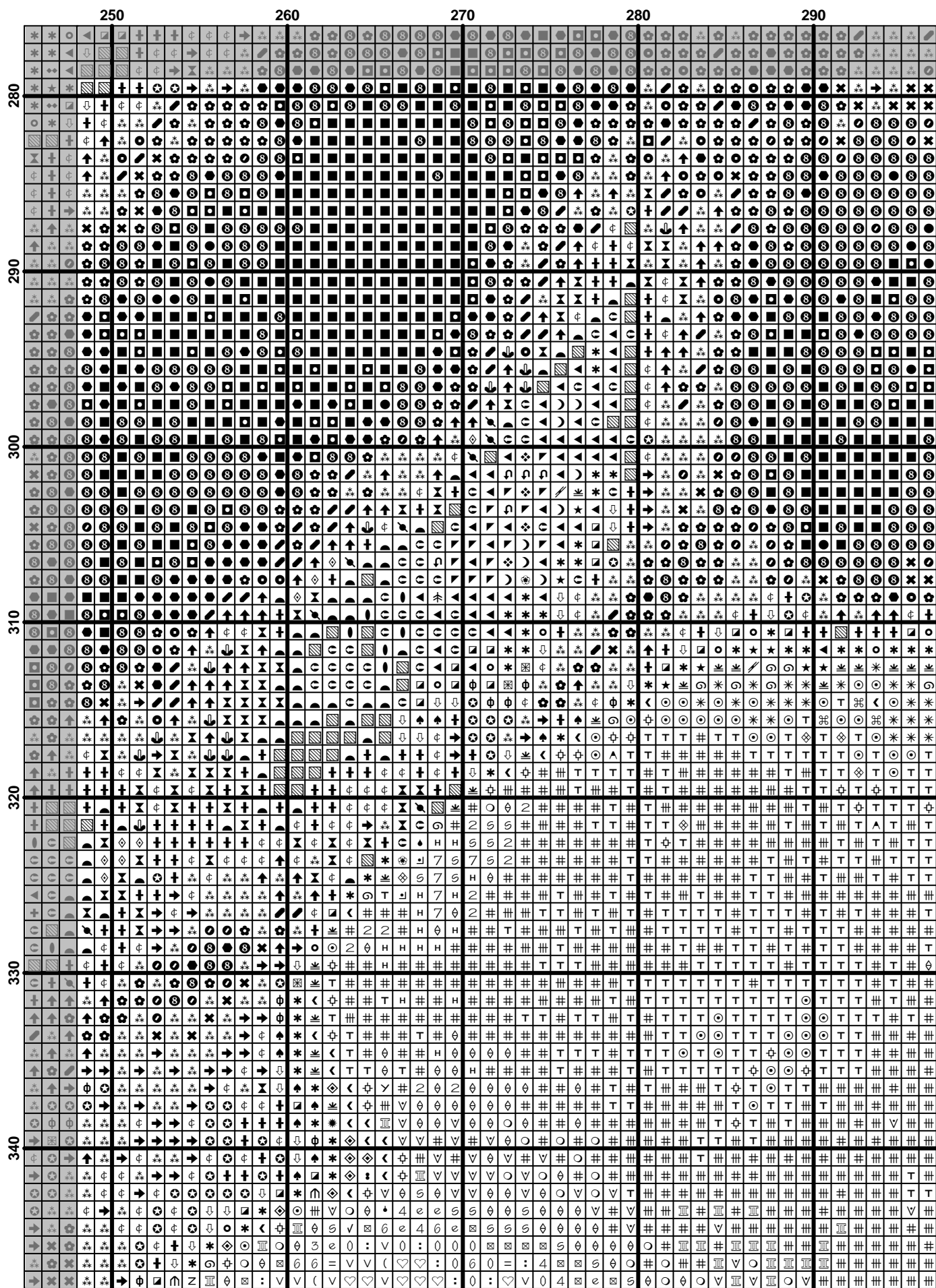
[illegible]

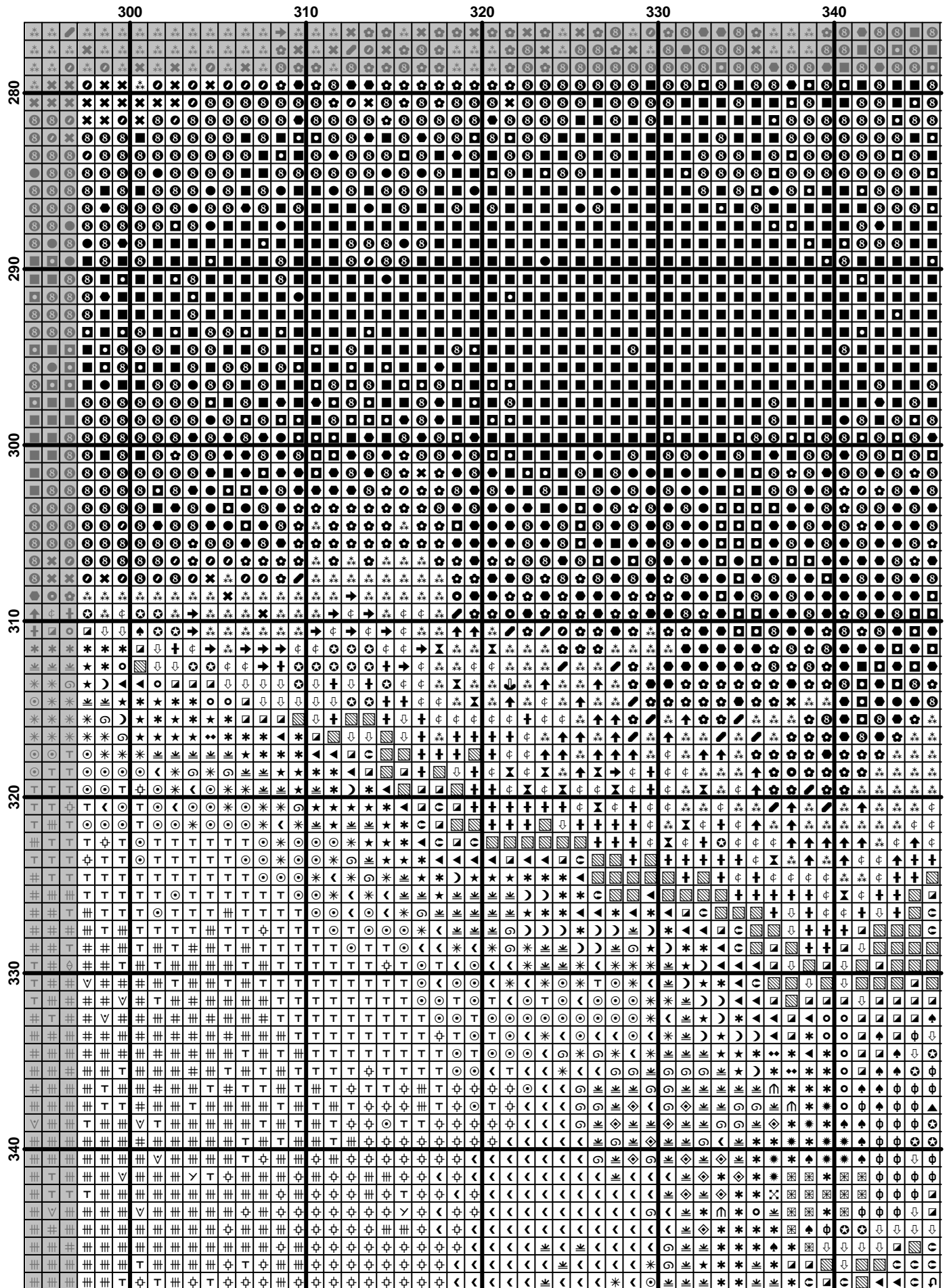
	50	60	70	80	90	100
280
290
300
310
320
330
340

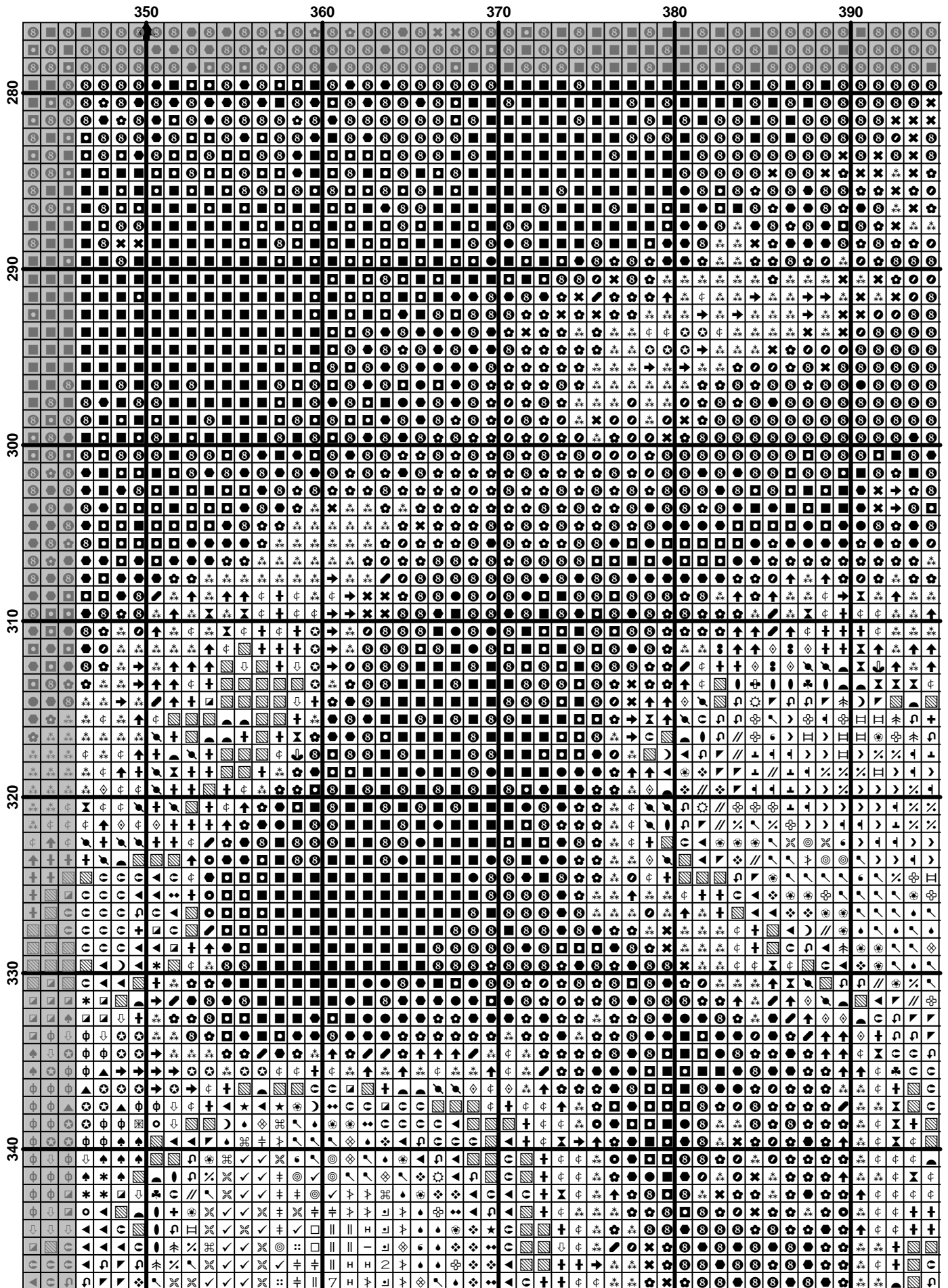
[illegible]

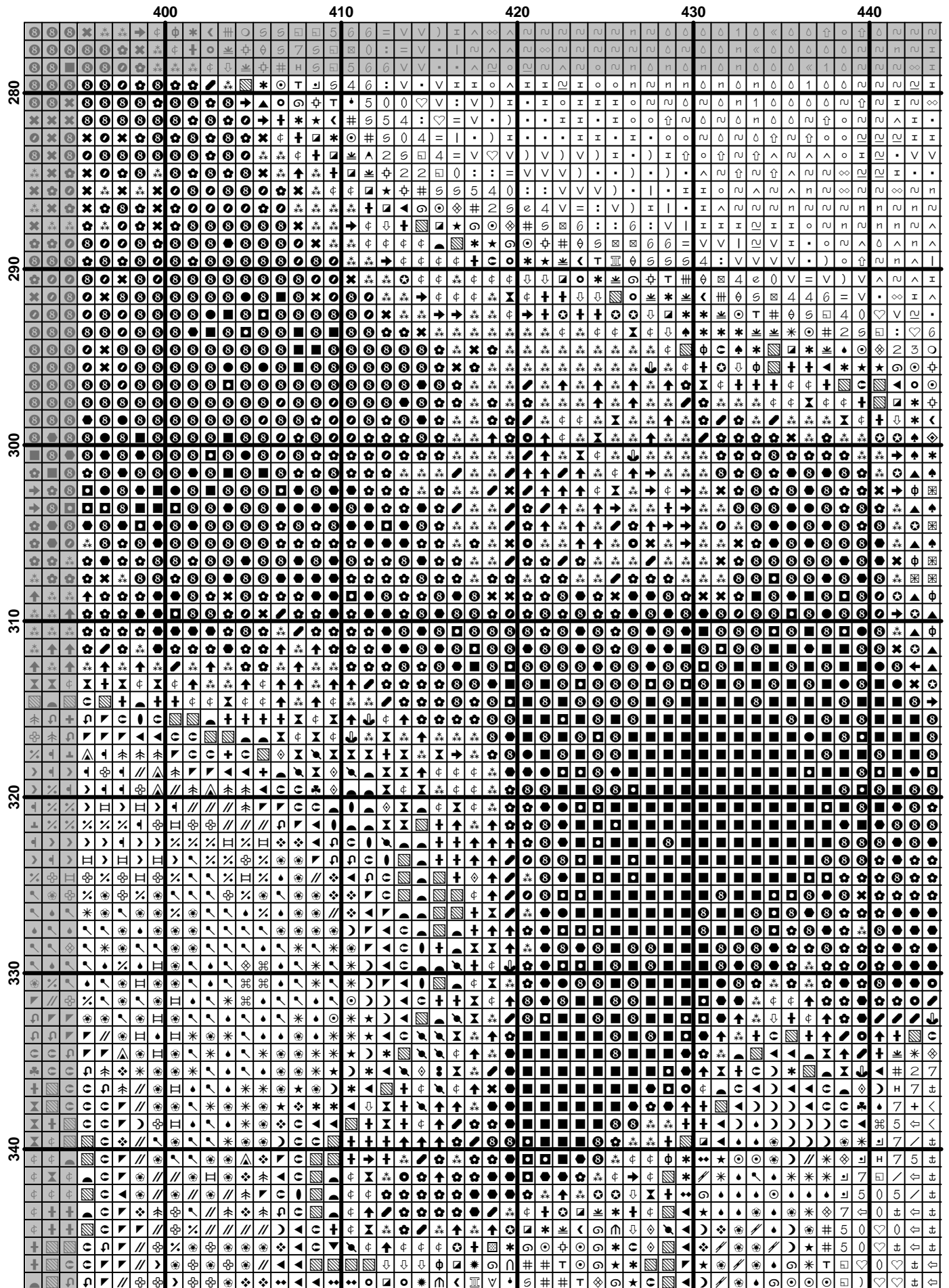
	150	160	170	180	190
280
290
300
310
320
330
340

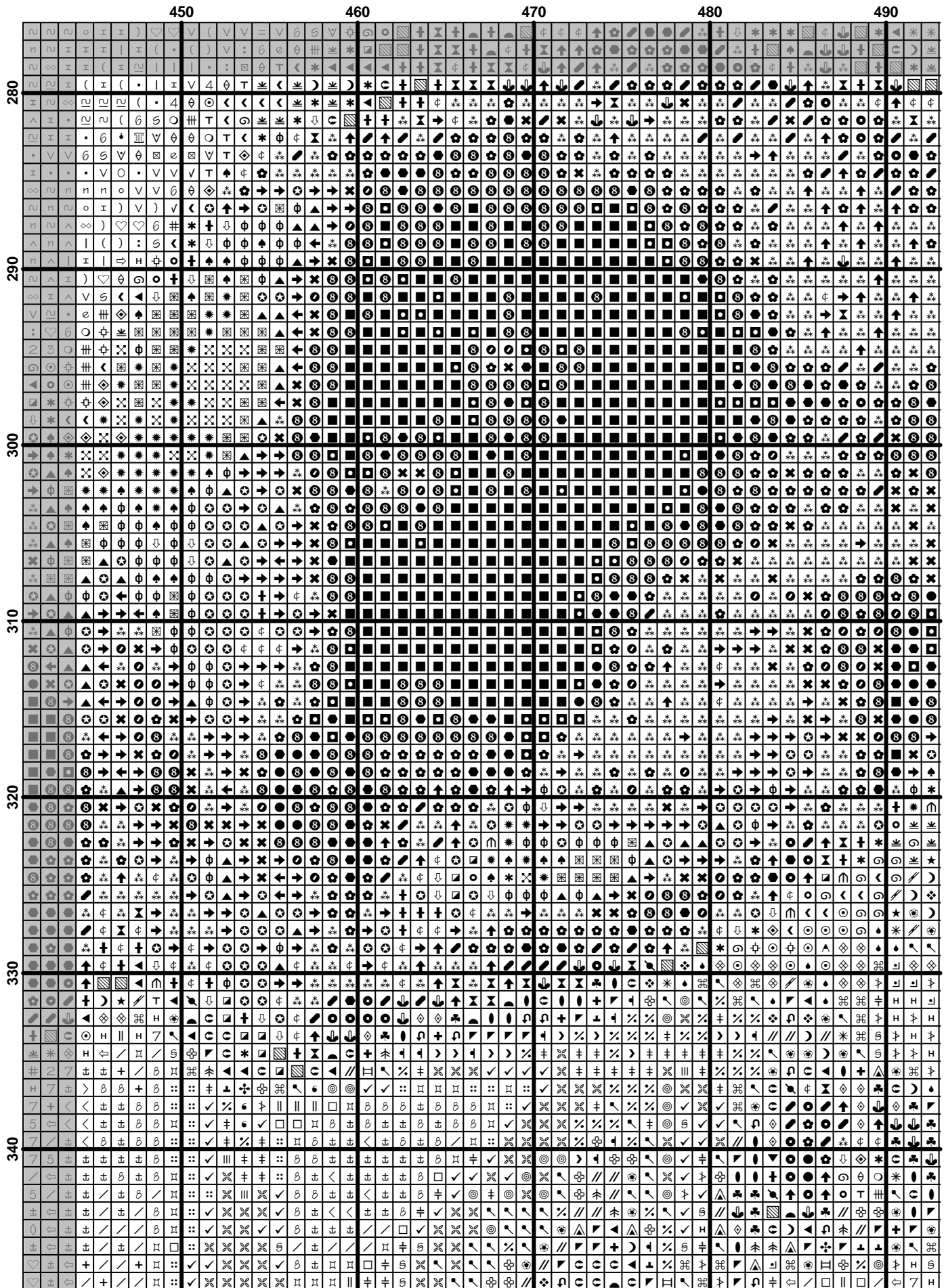






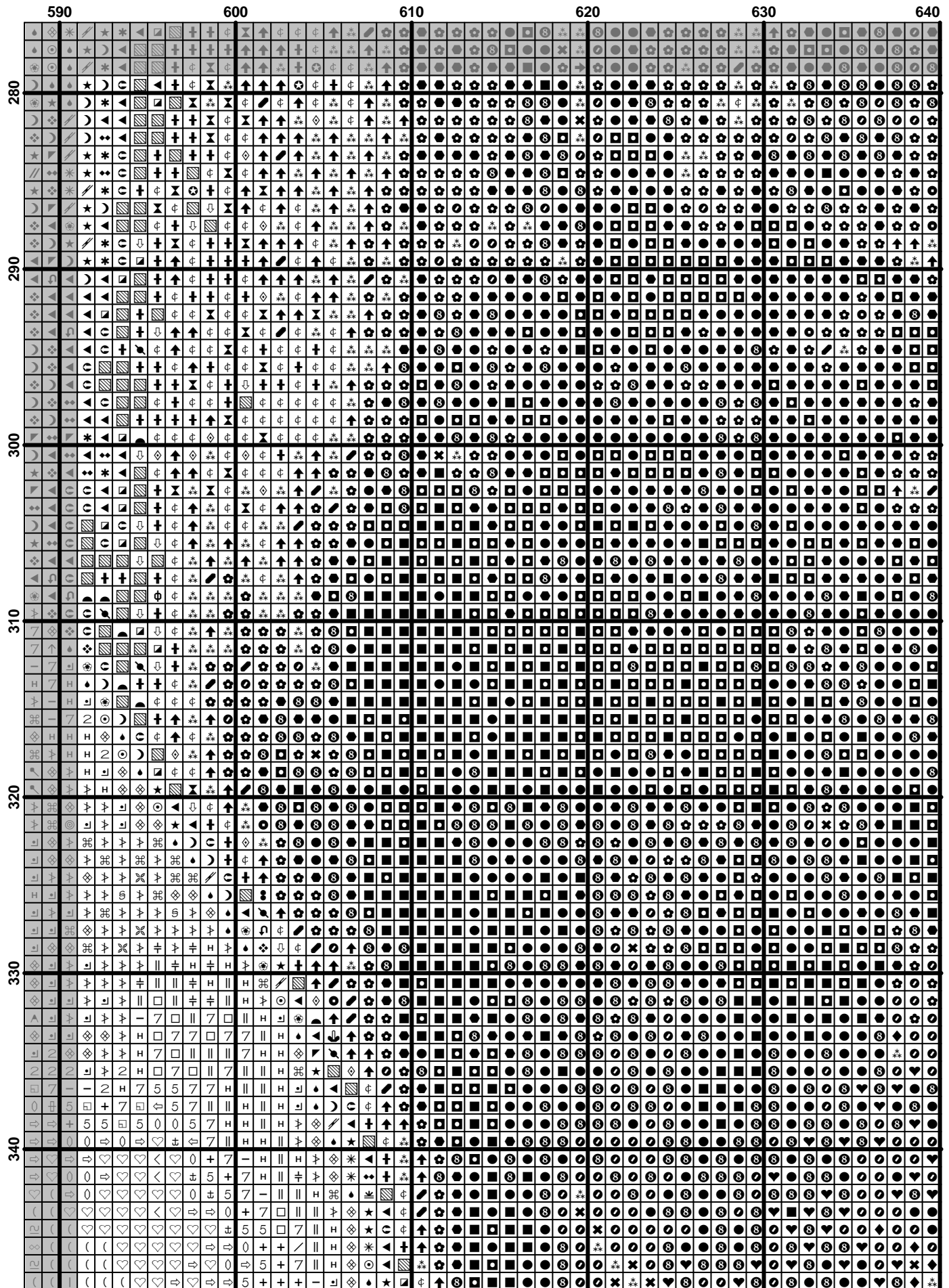


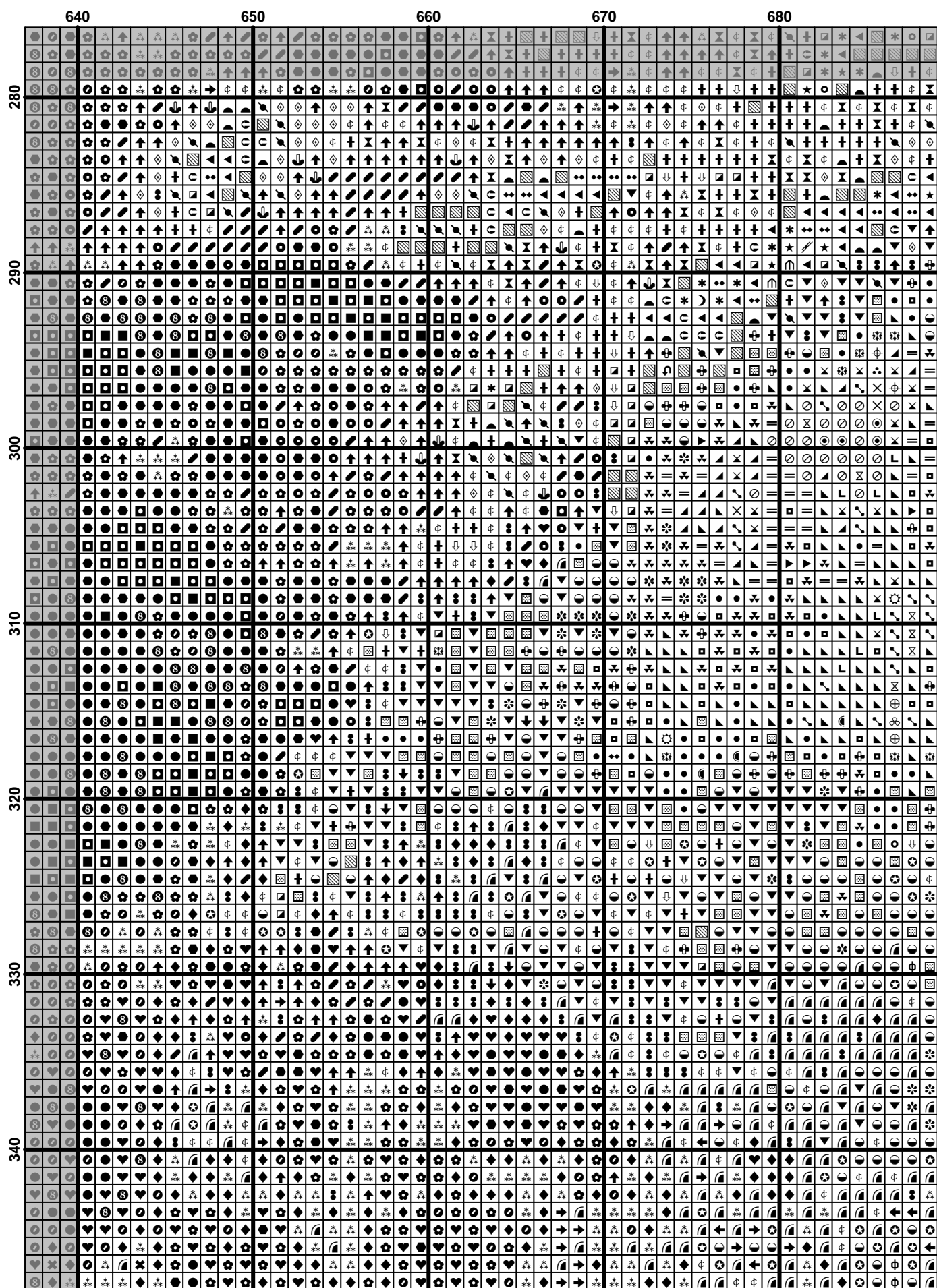


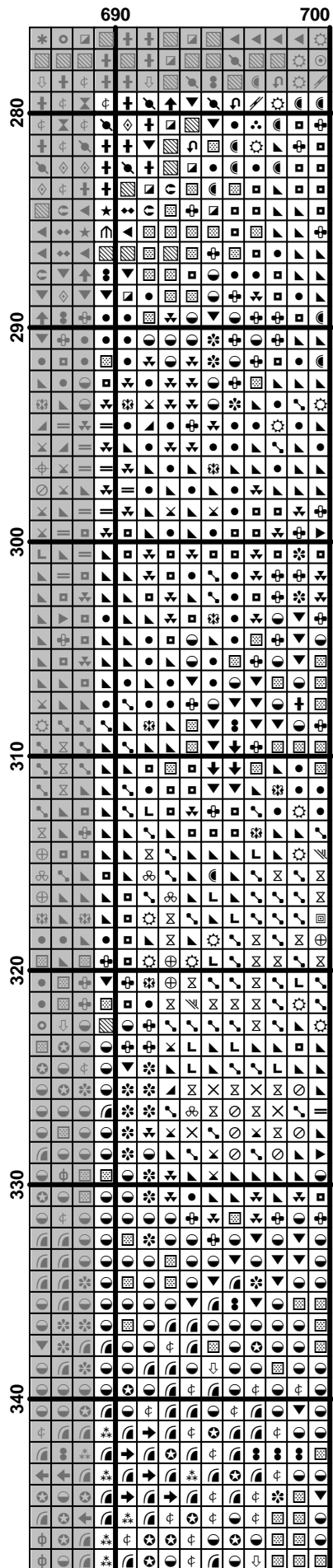


[illegible]

$$(87) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$







[illegible]

	50	60	70	80	90	100
350						
360						
370						
380						
390						
400						
410						

[illegible]

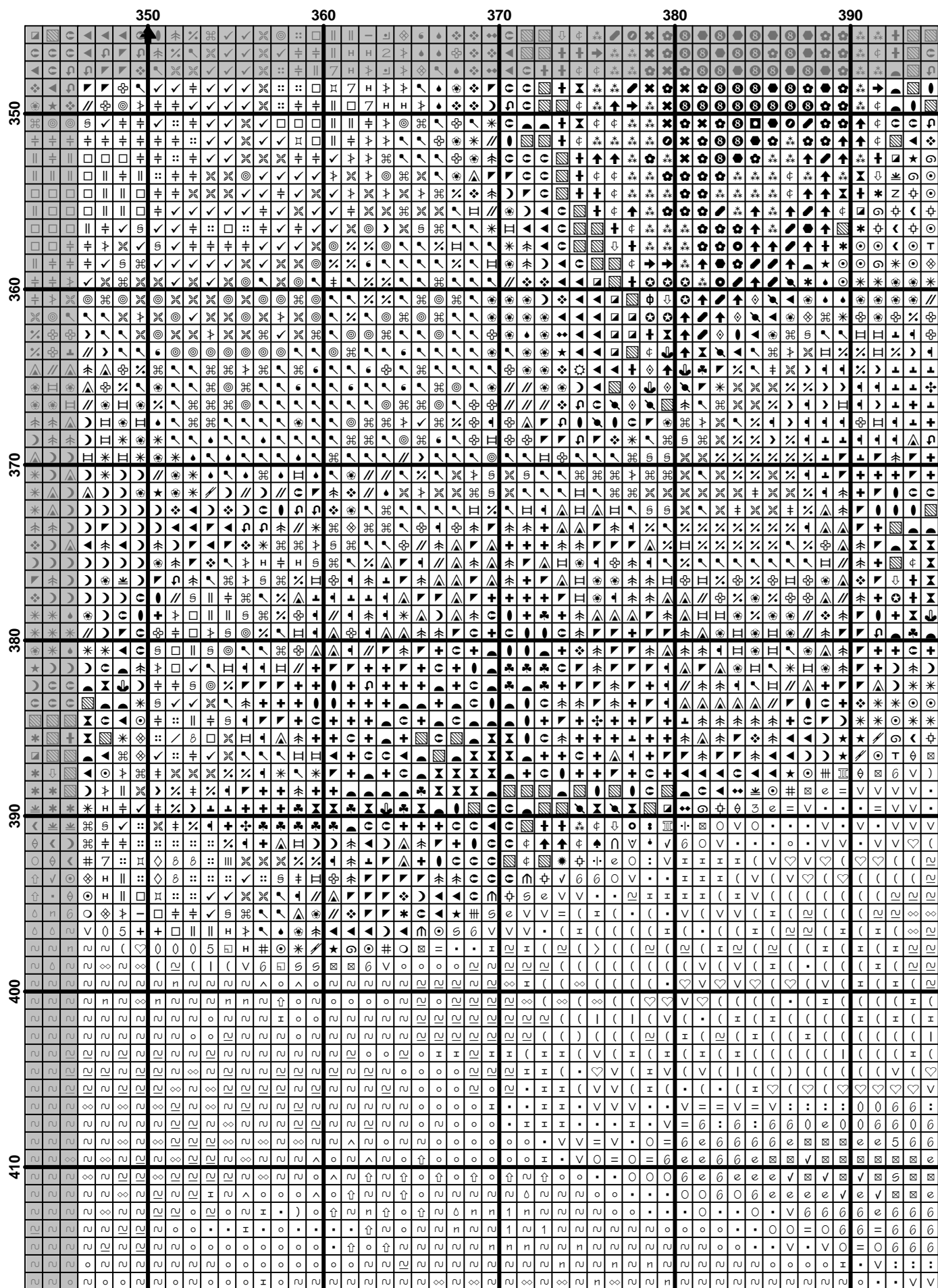
	150	160	170	180	190

350
360
370
380
390
400
410

	200	210	220	230	240
350
360
370
380
390
400
410

$$(96) \quad \text{[...]} \quad (97)$$

(98)

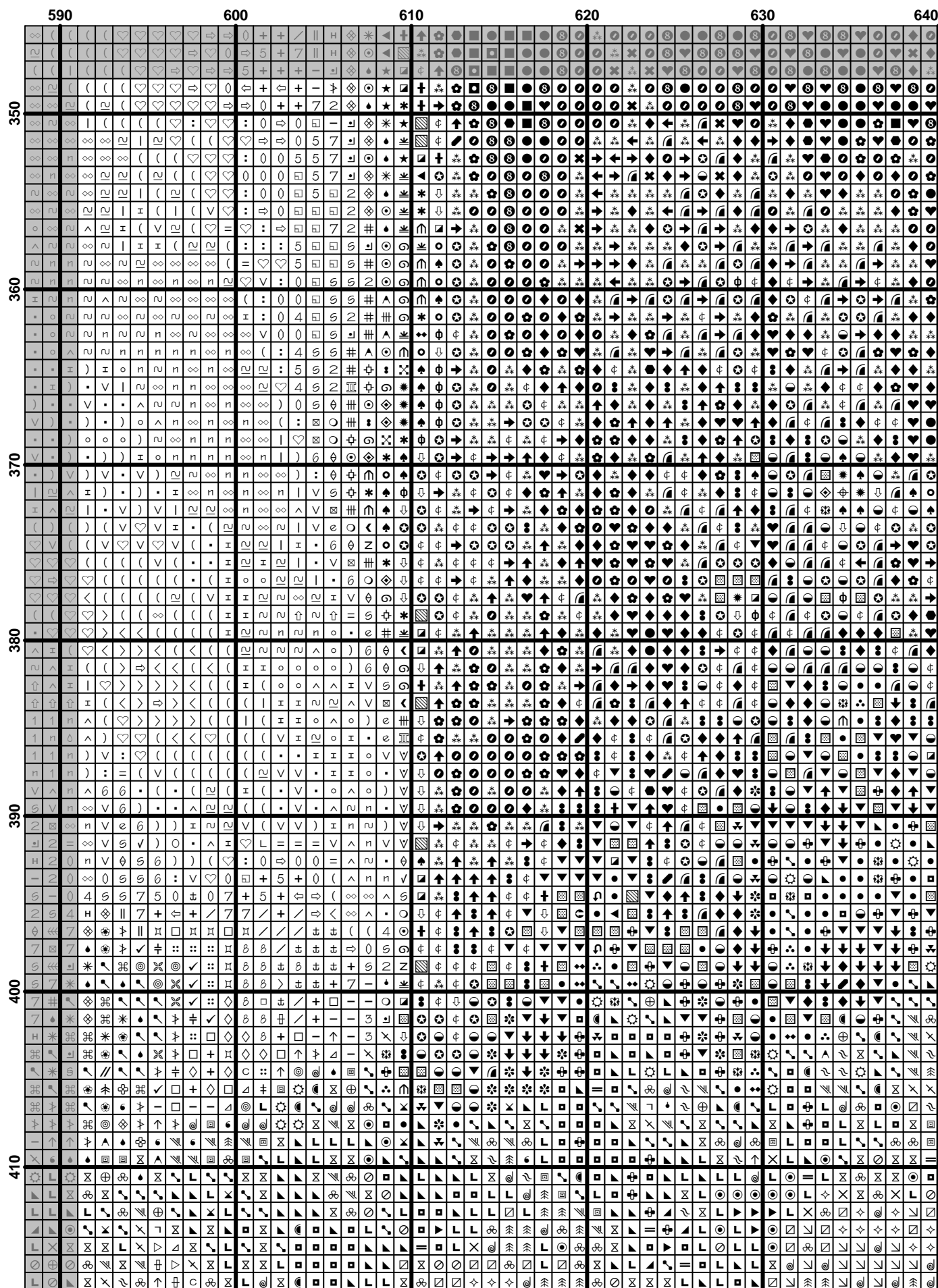


$$(99) \quad \text{[The rest of the page content is missing, but the equation number is present.]}$$

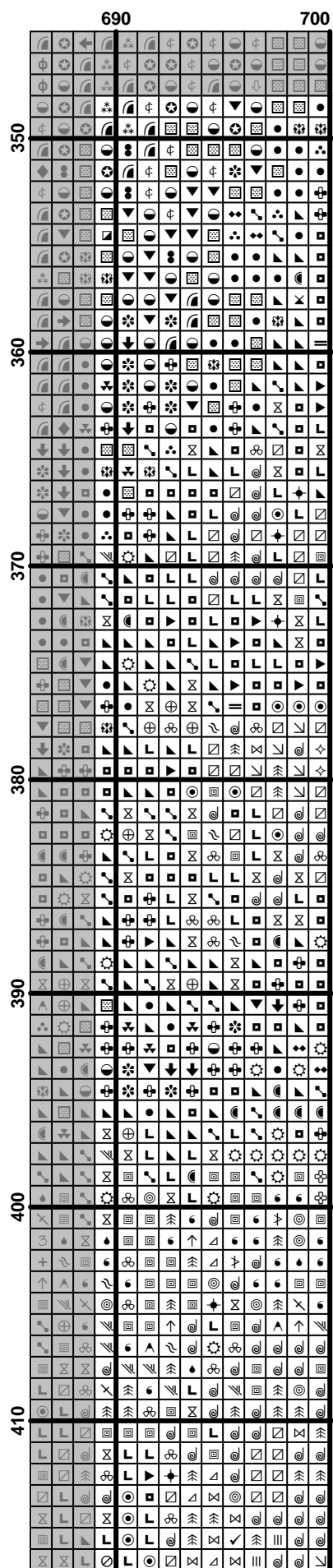
	450	460	470	480	490
350
360
370
380
390
400
410

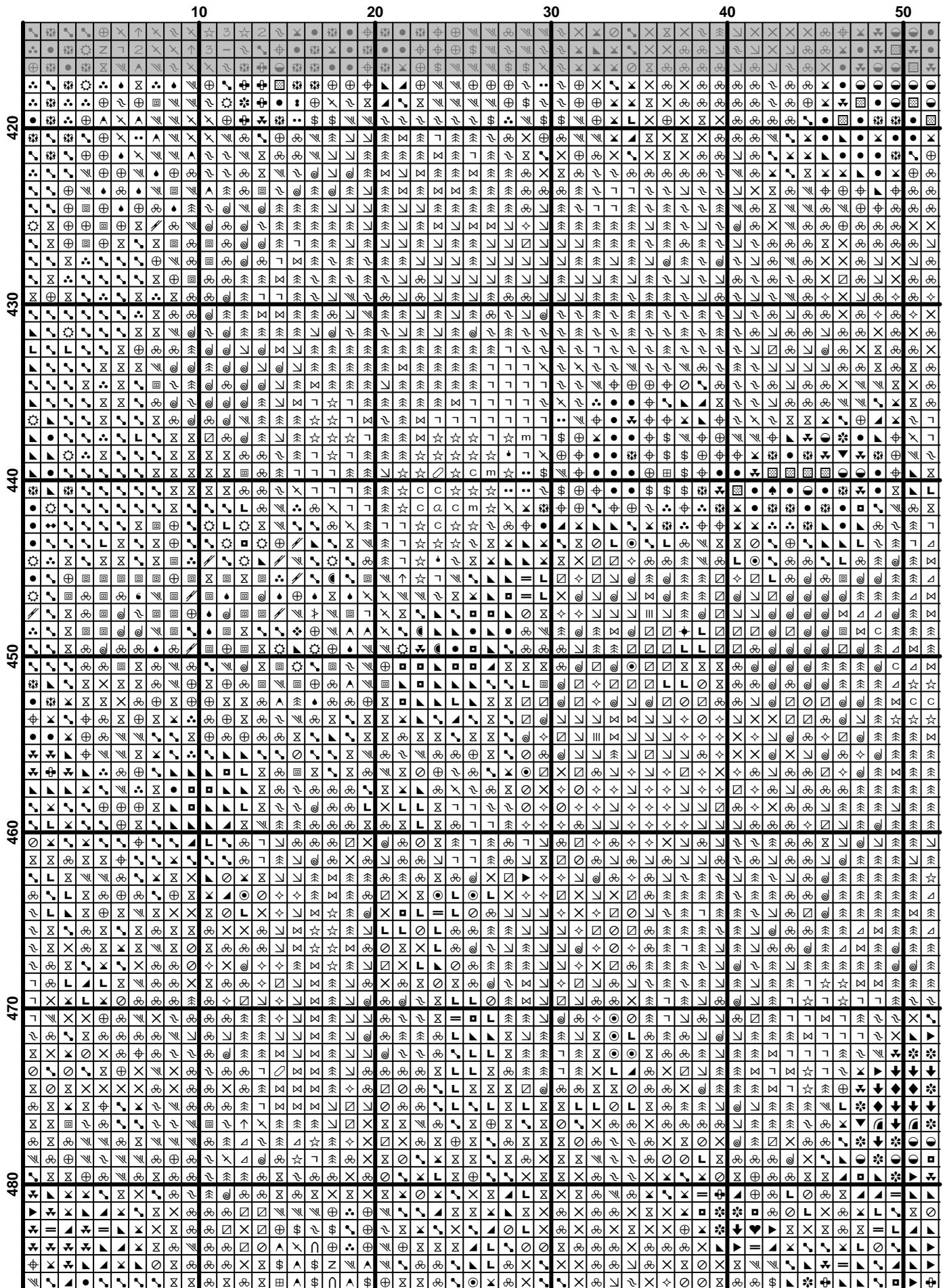
	490	500	510	520	530	540
350
360
370
380
390
400
410

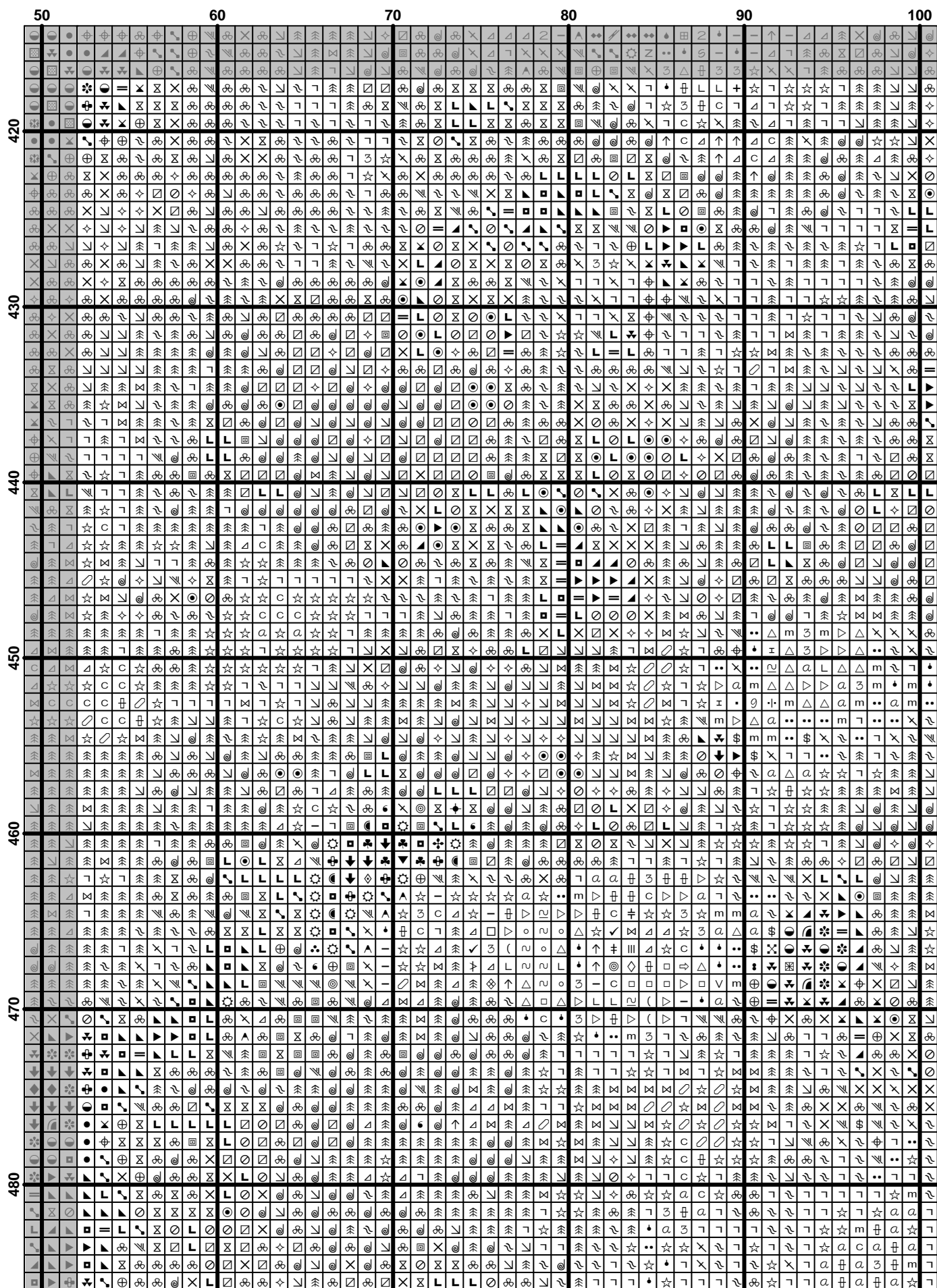
(103)

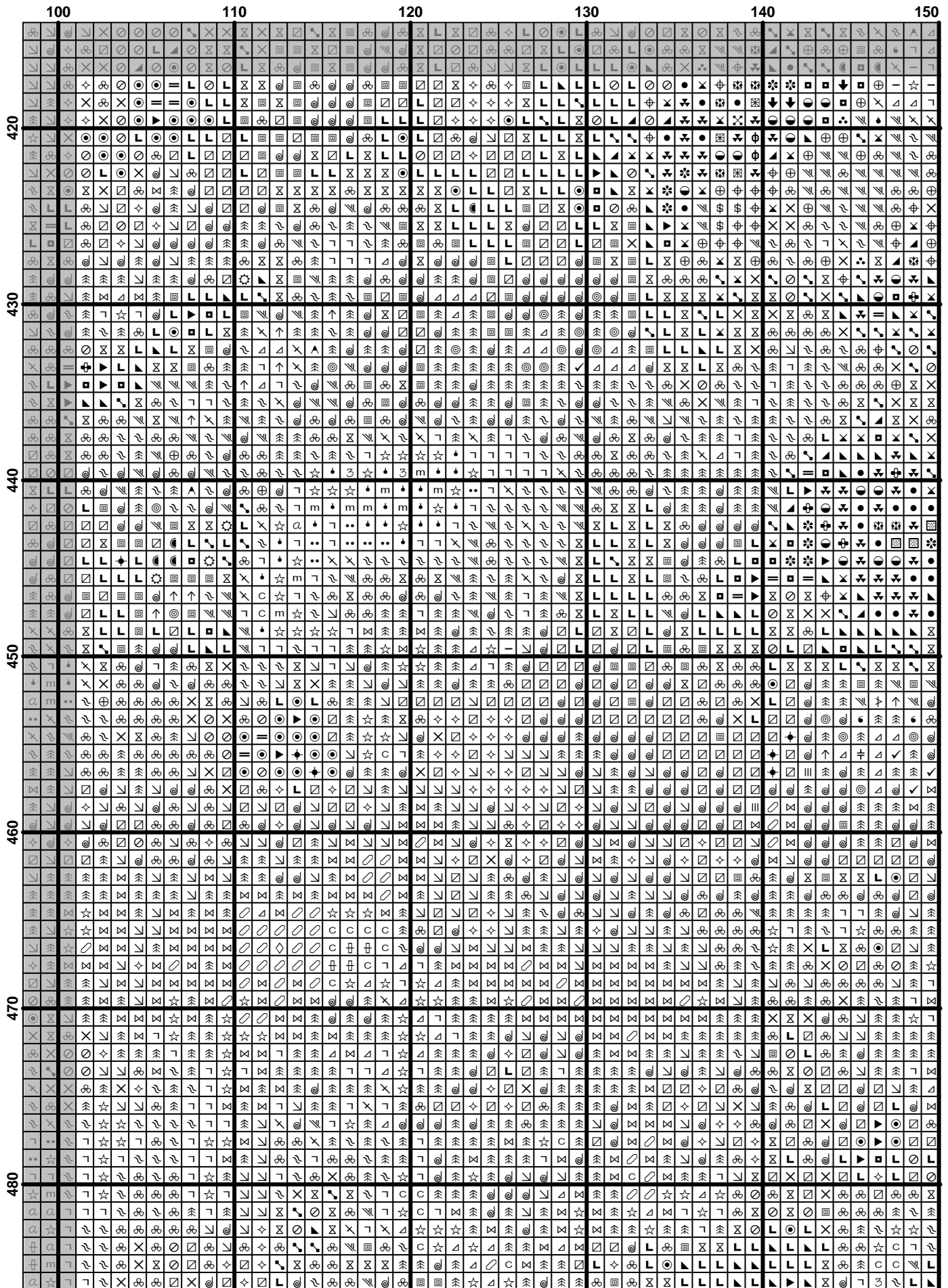


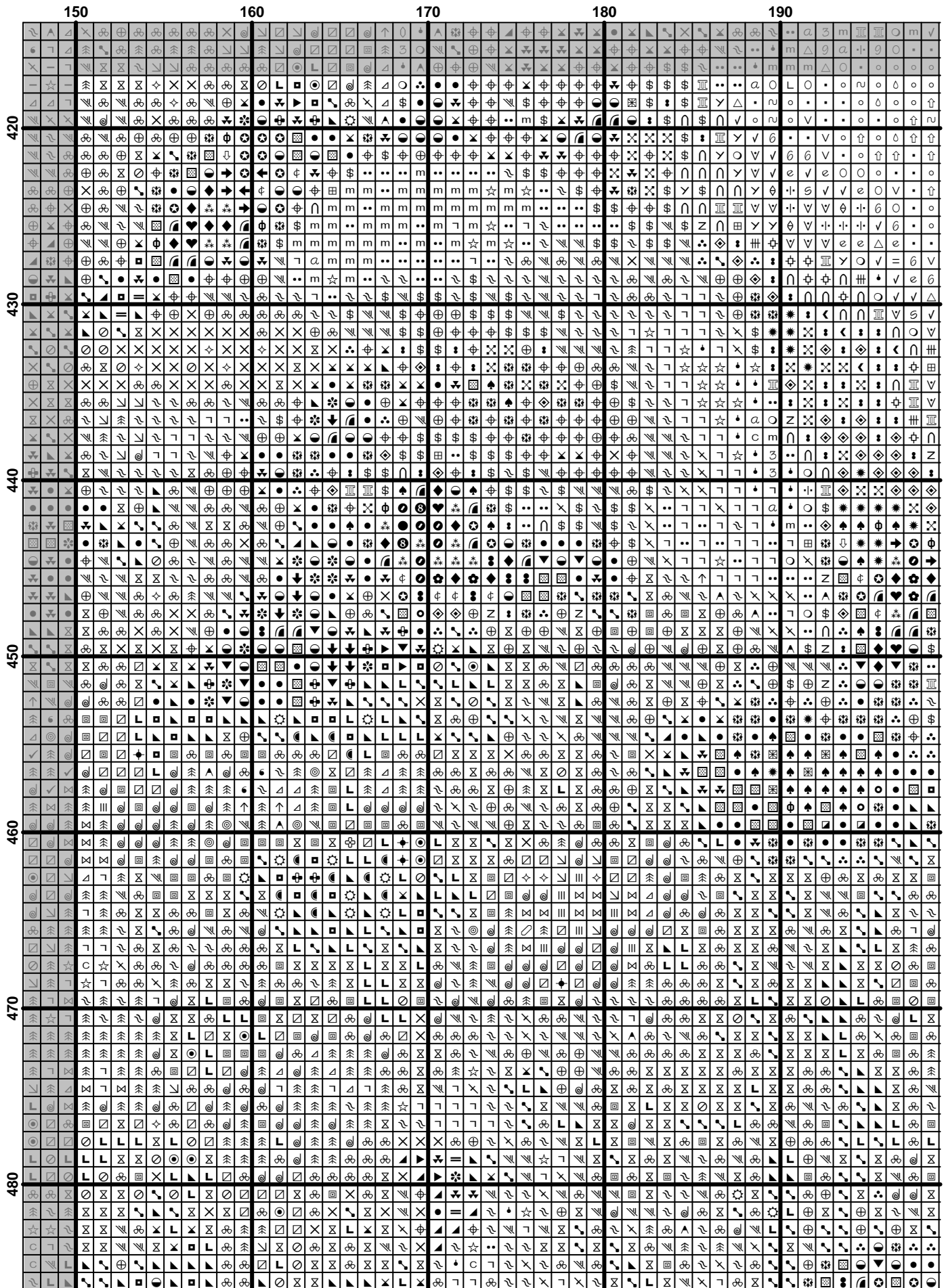








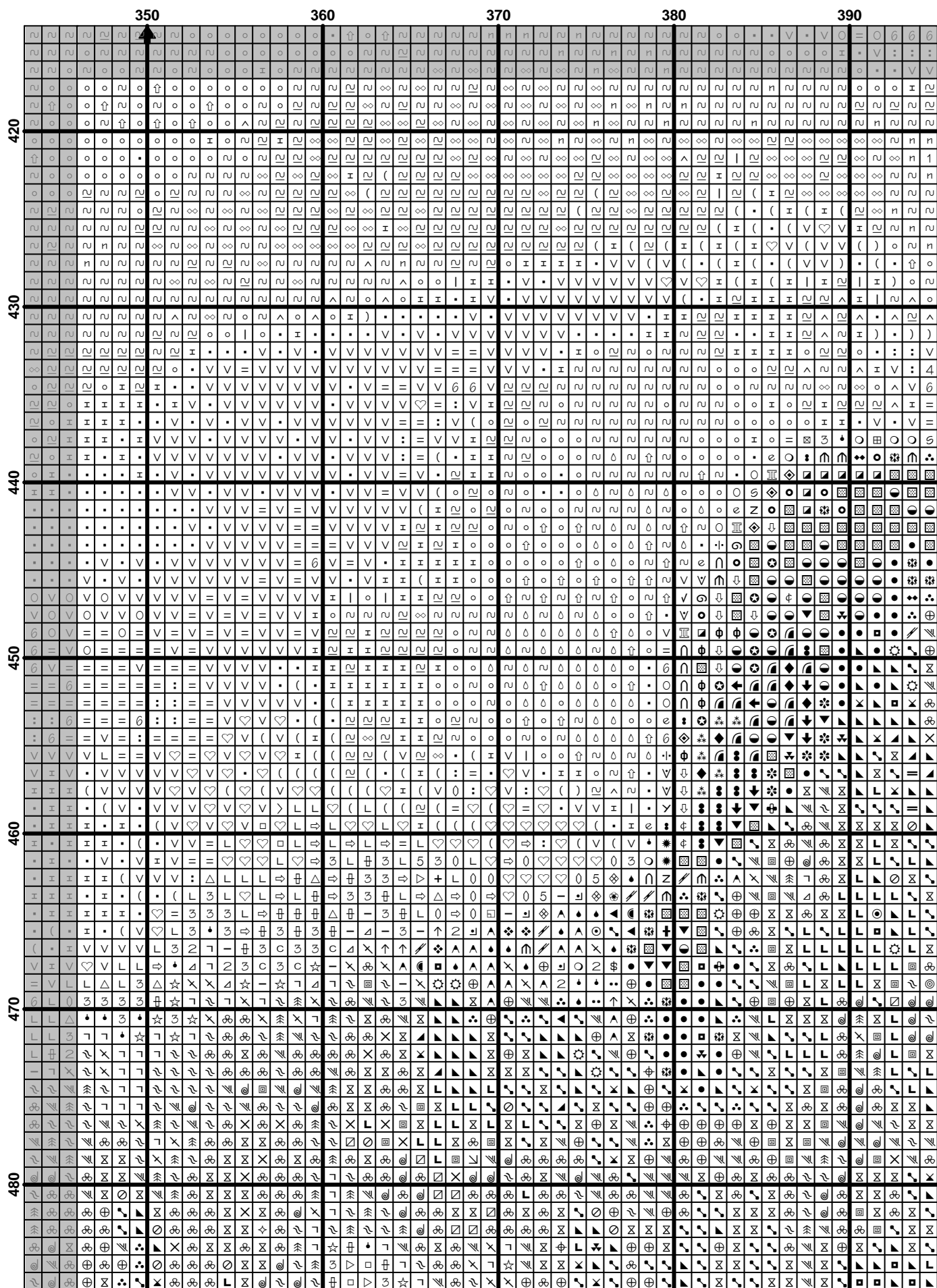




(111)

	250	260	270	280	290
420
430
440
450
460
470
480

$$(112) \quad \text{[...]} \quad (113)$$



[illegible]

