

## 486. The Arrival of Marie de` Medici



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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 Arrival of Marie de` Medici

Stitch Count	
Horizontal:	400
Vertical:	539

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	98	38.41	64	24.89	86	33.6	57	22.125	76	29.875
Including Margins:	89	35	114	45	80	31	102	40	73	29	92	36
	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	137	53.77	85	33.18	114	44.81	42	16.59	57	22.4
Including Margins:	118	46	153	60	101	40	130	51	58	23	73	29
	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	54	21.5	39	15.31	52	20.68	37	14.74	50	19.91
Including Margins:	56	22	70	28	55	22	68	27	53	21	66	26
	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	49	19.2	34	13.27	45	17.92	31	12.44	42	16.8
Including Margins:	52	21	65	26	50	20	61	24	47	19	58	23

Solid Color Stitches. Use two strands of the specified color for these stitches.

Symbol	DMC	Name
▼	221	Shell Pink-VY DK
▨	300	Mahogany-VY DK
◊	301	Mahogany-MD
■	310	Black
⬇	370	Mustard-MD
⊕	371	Mustard
Φ	400	Mahogany-DK
⦶	407	Desert Sand-DK
⦿	420	Hazelnut Brown-DK
↘	422	Hazelnut Brown-LT
⦿	433	Brown-MD
⦿	434	Brown-LT
⦿	435	Brown-VY LT
∇	436	Tan
∇	437	Tan-LT
⦿	451	Shell Gray-DK
⦿	452	Shell Gray-MD
⦿	453	Shell Gray-LT
⦿	500	Blue Green-VY DK
▶	520	Fern Green-DK
♠	535	Ash Gray-VY LT
☆	543	Beige Brown-UL VY LT
«	610	Drab Brown-DK
❖	611	Drab Brown
⦿	612	Drab Brown-LT
⦿	613	Drab Brown-VY LT
⦿	632	Desert Sand-UL VY DK
⦿	640	Beige Gray-VY DK
⦿	645	Beaver Gray-VY DK
♠	680	Old Gold-DK
♠	729	Old Gold-MD
5	738	Tan-VY LT
△	739	Tan-UL VY LT
➤	745	Yellow-LT Pale
▲	780	Topaz-UL VY DK
↖	782	Topaz-DK
●	801	Coffee Brown-DK
::	822	Beige Gray-LT
●	823	Navy Blue-DK
⦿	829	Golden Olive-VY DK
⦿	831	Golden Olive-MD
⦿	839	Beige Brown-DK

◀	841	Beige Brown-LT
➤	842	Beige Brown-VY LT
=	844	Beaver Brown-UL DK
⦿	869	Hazelnut Brown-VY DK
⦿	898	Coffee Brown-VY DK
⬆	902	Garnet-VY DK
⦿	924	Gray Green-VY DK
⬇	934	Black Avocado Green
⦿	938	Coffee Brown-UL DK
⦿	939	Navy Blue-VY DK
♡	948	Peach-VY LT
◀	975	Golden Brown-DK
..	976	Golden Brown-MD
⦿	977	Golden Brown-LT
⦿	3011	Khaki Green-DK
⦿	3012	Khaki Green-MD
⦿	3021	Brown Gray-VY DK
⦿	3022	Brown Gray-MD
7	3023	Brown Gray-LT
✕	3031	Mocha Brown-VY DK
+	3032	Mocha Brown-MD
⦿	3045	Yellow Beige-DK
⦿	3046	Yellow Beige-MD
⦿	3051	Green Gray-DK
⦿	3078	Golden Yellow-VY LT
⦿	3362	Pine Green-DK
●	3371	Black Brown
⦿	3772	Desert Sand-VY DK
⦿	3781	Mocha Brown-DK
u	3782	Mocha Brown-LT
⦿	3787	Brown Gray-DK
⦿	3790	Beige Gray-UL DK
⦿	3799	Pewter Gray-VY DK
⦿	3822	Straw-LT
★	3826	Golden Brown
▲	3828	Hazelnut Brown
⦿	3829	Old Gold-VY DK
⇒	3852	Straw-VY DK
6	3855	Autumn Gold-LT
⦿	3857	Rosewood-DK
III	3860	Cocoa
⦿	3861	Cocoa-LT
⦿	3862	Mocha Beige-DK
↘	3863	Mocha Beige-MD

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

Symbol	DMC1	Name1	DMC2	Name2
⦿	645	Beaver Gray-VY DK	3052	Green Gray-MD
⦿	646	Beaver Gray-DK	3860	Cocoa
1	3782	Mocha Brown-LT	842	Beige Brown-VY LT
✕	3862	Mocha Beige-DK	3863	Mocha Beige-MD
✱	420	Hazelnut Brown-DK	435	Brown-VY LT
⦿	844	Beaver Brown-UL DK	3021	Brown Gray-VY DK
⦿	435	Brown-VY LT	3828	Hazelnut Brown
✓	725	Topaz	977	Golden Brown-LT
⦿	610	Drab Brown-DK	839	Beige Brown-DK
⬅	300	Mahogany-VY DK	898	Coffee Brown-VY DK
∞	422	Hazelnut Brown-LT	3827	Golden Brown-Pale
⦿	610	Drab Brown-DK	3787	Brown Gray-DK
∞	738	Tan-VY LT	3855	Autumn Gold-LT
■	838	Beige Brown-VY DK	839	Beige Brown-DK
+	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
L	645	Beaver Gray-VY DK	3860	Cocoa
◆	938	Coffee Brown-UL DK	3799	Pewter Gray-VY DK
⦿	640	Beige Gray-VY DK	646	Beaver Gray-DK
m	840	Beige Brown-MD	3032	Mocha Brown-MD
Δ	407	Desert Sand-DK	437	Tan-LT
✱	3011	Khaki Green-DK	3781	Mocha Brown-DK
▷	842	Beige Brown-VY LT	407	Desert Sand-DK
⦿	647	Beaver Gray-MD	3861	Cocoa-LT
⦿	435	Brown-VY LT	436	Tan
⦿	433	Brown-MD	869	Hazelnut Brown-VY DK
∞	3032	Mocha Brown-MD	640	Beige Gray-VY DK
⦿	823	Navy Blue-DK	938	Coffee Brown-UL DK
■	3021	Brown Gray-VY DK	839	Beige Brown-DK
⦿	938	Coffee Brown-UL DK	3802	Antique Mauve-VY DK
➡	898	Coffee Brown-VY DK	902	Garnet-VY DK
▼	3787	Brown Gray-DK	3860	Cocoa
↘	640	Beige Gray-VY DK	3860	Cocoa
✕	3802	Antique Mauve-VY DK	535	Ash Gray-VY LT
∞	898	Coffee Brown-VY DK	938	Coffee Brown-UL DK
✕	3787	Brown Gray-DK	535	Ash Gray-VY LT
⦿	3861	Cocoa-LT	451	Shell Gray-DK
⦿	433	Brown-MD	975	Golden Brown-DK
⦿	938	Coffee Brown-UL DK	902	Garnet-VY DK
↑	420	Hazelnut Brown-DK	780	Topaz-UL VY DK
⬆	831	Golden Olive-MD	869	Hazelnut Brown-VY DK
☾	301	Mahogany-MD	420	Hazelnut Brown-DK
⦿	3041	Antique Violet-MD	646	Beaver Gray-DK
□	3032	Mocha Brown-MD	3863	Mocha Beige-MD
⦿	3032	Mocha Brown-MD	407	Desert Sand-DK
4	3828	Hazelnut Brown	3772	Desert Sand-VY DK
⦿	640	Beige Gray-VY DK	839	Beige Brown-DK
⦿	645	Beaver Gray-VY DK	839	Beige Brown-DK
◁	3781	Mocha Brown-DK	3787	Brown Gray-DK
⦿	3802	Antique Mauve-VY DK	3790	Beige Gray-UL DK
↗	451	Shell Gray-DK	647	Beaver Gray-MD
—	647	Beaver Gray-MD	3023	Brown Gray-LT
3	452	Shell Gray-MD	842	Beige Brown-VY LT
♣	841	Beige Brown-LT	3782	Mocha Brown-LT

//	407	Desert Sand-DK	3782	Mocha Brown-LT
♠	840	Beige Brown-MD	407	Desert Sand-DK
н	841	Beige Brown-LT	640	Beige Gray-VY DK
П	646	Beaver Gray-DK	317	Pewter Gray
✂	640	Beige Gray-VY DK	3802	Antique Mauve-VY DK
✂	420	Hazelnut Brown-DK	611	Drab Brown
●	3862	Mocha Beige-DK	839	Beige Brown-DK
▀	610	Drab Brown-DK	433	Brown-MD
⌘	3032	Mocha Brown-MD	612	Drab Brown-LT
· ·	435	Brown-VY LT	976	Golden Brown-MD
☼	823	Navy Blue-DK	3750	Antique Blue-VY DK
	451	Shell Gray-DK	3860	Cocoa
♦♦	435	Brown-VY LT	780	Topaz-UL VY DK
✱	780	Topaz-UL VY DK	831	Golden Olive-MD
♣	221	Shell Pink-VY DK	3857	Rosewood-DK
☛	433	Brown-MD	3802	Antique Mauve-VY DK
↔	780	Topaz-UL VY DK	976	Golden Brown-MD
↓	938	Coffee Brown-UL DK	3021	Brown Gray-VY DK
☼	976	Golden Brown-MD	3826	Golden Brown
▲	301	Mahogany-MD	400	Mahogany-DK
☛	3750	Antique Blue-VY DK	930	Antique Blue-DK
✱	317	Pewter Gray	930	Antique Blue-DK
♣	3750	Antique Blue-VY DK	3768	Gray Green-DK
▲	300	Mahogany-VY DK	400	Mahogany-DK
↑	435	Brown-VY LT	729	Old Gold-MD
Г	436	Tan	729	Old Gold-MD
⌘	976	Golden Brown-MD	729	Old Gold-MD
^	3827	Golden Brown-Pale	3855	Autumn Gold-LT
<	977	Golden Brown-LT	3827	Golden Brown-Pale
L	436	Tan	437	Tan-LT
a	3821	Straw	3827	Golden Brown-Pale
/	977	Golden Brown-LT	3821	Straw
2	436	Tan	3827	Golden Brown-Pale
⌘	422	Hazelnut Brown-LT	3855	Autumn Gold-LT
☛	371	Mustard	831	Golden Olive-MD
⊕	435	Brown-VY LT	831	Golden Olive-MD
δ	745	Yellow-LT Pale	3855	Autumn Gold-LT
(	738	Tan-VY LT	745	Yellow-LT Pale
c	739	Tan-UL VY LT	745	Yellow-LT Pale
?	3827	Golden Brown-Pale	676	Old Gold-LT
•	3827	Golden Brown-Pale	3046	Yellow Beige-MD
▀	780	Topaz-UL VY DK	3829	Old Gold-VY DK
☛	400	Mahogany-DK	780	Topaz-UL VY DK
☛	3051	Green Gray-DK	898	Coffee Brown-VY DK
=	783	Topaz-MD	976	Golden Brown-MD
☛	3821	Straw	3852	Straw-VY DK
♥	500	Blue Green-VY DK	3799	Pewter Gray-VY DK
□	3011	Khaki Green-DK	831	Golden Olive-MD
✂	977	Golden Brown-LT	729	Old Gold-MD
☛	829	Golden Olive-VY DK	869	Hazelnut Brown-VY DK
▲	434	Brown-LT	831	Golden Olive-MD
○	3827	Golden Brown-Pale	738	Tan-VY LT



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

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
221	Shell Pink-VY DK	101	39	96	37	87	34
300	Mahogany-VY DK	550	216	524	206	472	185
301	Mahogany-MD	165	64	158	62	142	55
310	Black	316	124	301	118	271	106
317	Pewter Gray	38	14	36	14	32	12
370	Mustard-MD	64	25	61	24	55	21
371	Mustard	134	52	128	50	115	45
400	Mahogany-DK	282	111	268	105	242	95
407	Desert Sand-DK	227	89	216	85	194	76
420	Hazelnut Brown-DK	745	293	709	279	638	251
422	Hazelnut Brown-LT	323	127	307	120	276	108
433	Brown-MD	1505	592	1433	564	1290	507
434	Brown-LT	736	289	701	275	631	248
435	Brown-VY LT	684	269	651	256	586	230
436	Tan	388	152	369	145	332	130
437	Tan-LT	143	56	136	53	122	48
451	Shell Gray-DK	812	319	773	304	696	274
452	Shell Gray-MD	108	42	103	40	93	36
453	Shell Gray-LT	49	19	46	18	42	16
500	Blue Green-VY DK	593	233	564	222	508	200
520	Fern Green-DK	67	26	64	25	58	22
535	Ash Gray-VY LT	710	279	676	266	608	239
543	Beige Brown-UL VY LT	71	27	68	26	61	24
610	Drab Brown-DK	1369	538	1303	512	1173	461
611	Drab Brown	344	135	328	129	295	116
612	Drab Brown-LT	131	51	125	49	112	44
613	Drab Brown-VY LT	93	36	89	35	80	31
632	Desert Sand-UL VY DK	229	90	218	85	196	77
640	Beige Gray-VY DK	1244	489	1184	466	1066	419
645	Beaver Gray-VY DK	1304	513	1242	488	1118	440
646	Beaver Gray-DK	462	181	440	173	396	155
647	Beaver Gray-MD	256	100	244	96	219	86
676	Old Gold-LT	80	31	76	29	68	26
680	Old Gold-DK	180	70	172	67	155	61
725	Topaz	7	2	7	2	6	2
729	Old Gold-MD	563	221	537	211	483	190
738	Tan-VY LT	222	87	212	83	190	74
739	Tan-UL VY LT	47	18	45	17	41	16
745	Yellow-LT Pale	213	83	202	79	182	71
780	Topaz-UL VY DK	722	284	687	270	618	243
782	Topaz-DK	215	84	204	80	184	72
783	Topaz-MD	45	17	43	16	39	15
801	Coffee Brown-DK	782	307	745	293	671	264
822	Beige Gray-LT	49	19	47	18	42	16
823	Navy Blue-DK	1958	770	1865	734	1678	660
829	Golden Olive-VY DK	856	337	815	320	734	288
831	Golden Olive-MD	948	373	903	355	813	320
838	Beige Brown-VY DK	394	155	376	148	338	133
839	Beige Brown-DK	2715	1068	2586	1018	2327	916
840	Beige Brown-MD	174	68	166	65	149	58
841	Beige Brown-LT	417	164	397	156	357	140
842	Beige Brown-VY LT	279	109	265	104	239	94
844	Beaver Brown-UL DK	1730	681	1647	648	1482	583
869	Hazelnut Brown-VY DK	1680	661	1600	629	1440	566

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898	Coffee Brown-VY DK	1413	556	1345	529	1211	476
902	Garnet-VY DK	1029	405	980	385	882	347
924	Gray Green-VY DK	80	31	76	29	68	26
930	Antique Blue-DK	21	8	20	7	18	7
934	Black Avocado Green	516	203	491	193	442	174
938	Coffee Brown-UL DK	6406	2522	6100	2401	5490	2161
939	Navy Blue-VY DK	532	209	507	199	456	179
948	Peach-VY LT	21	8	20	7	18	7
975	Golden Brown-DK	446	175	425	167	382	150
976	Golden Brown-MD	342	134	326	128	293	115
977	Golden Brown-LT	147	57	140	55	126	49
3011	Khaki Green-DK	621	244	591	232	532	209
3012	Khaki Green-MD	48	18	45	17	41	16
3021	Brown Gray -VY DK	2681	1055	2553	1005	2298	904
3022	Brown Gray -MD	60	23	57	22	51	20
3023	Brown Gray -LT	106	41	101	39	91	35
3031	Mocha Brown-VY DK	586	230	558	219	502	197
3032	Mocha Brown-MD	428	168	407	160	367	144
3041	Antique Violet-MD	54	21	51	20	46	18
3045	Yellow Beige-DK	95	37	91	35	82	32
3046	Yellow Beige-MD	113	44	108	42	97	38
3051	Green Gray-DK	539	212	513	201	462	181
3052	Green Gray-MD	30	11	28	11	25	9
3078	Golden Yellow-VY LT	84	33	80	31	72	28
3362	Pine Green-DK	73	28	70	27	63	24
3371	Black Brown	736	289	701	275	631	248
3750	Antique Blue-VY DK	74	29	70	27	63	24
3768	Gray Green-DK	22	8	21	8	19	7
3772	Desert Sand-VY DK	138	54	132	51	119	46
3781	Mocha Brown-DK	1324	521	1260	496	1134	446
3782	Mocha Brown-LT	429	168	408	160	367	144
3787	Brown Gray -DK	1742	685	1659	653	1493	587
3790	Beige Gray-UL DK	738	290	703	276	632	248
3799	Pewter Gray -VY DK	3439	1353	3276	1289	2948	1160
3802	Antique Mauve-VY DK	800	314	762	300	685	269
3821	Straw	69	27	66	25	59	23
3822	Straw -LT	75	29	71	27	64	25
3826	Golden Brown	95	37	91	35	82	32
3827	Golden Brown-Pale	566	222	539	212	485	190
3828	Hazelnut Brown	308	121	293	115	264	103
3829	Old Gold-VY DK	373	146	355	139	319	125
3852	Straw-VY DK	38	14	36	14	32	12
3855	Autumn Gold-LT	625	246	595	234	535	210
3857	Rosewood-DK	295	116	281	110	253	99
3860	Cocoa	1878	739	1788	703	1609	633
3861	Cocoa-LT	391	153	372	146	335	131
3862	Mocha Beige-DK	1105	435	1053	414	947	372
3863	Mocha Beige-MD	551	216	525	206	472	185

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
221	Shell Pink-VY DK	157	61	131	51	65	26
300	Mahogany-VY DK	850	333	708	278	354	139
301	Mahogany-MD	256	99	213	83	107	41
310	Black	488	191	407	159	203	80



317	Pewter Gray	58	22	48	18	24	9
370	Mustard-MD	99	38	83	32	41	16
371	Mustard	207	81	173	68	86	34
400	Mahogany-DK	436	171	363	143	182	71
407	Desert Sand-DK	349	137	291	114	146	57
420	Hazelnut Brown-DK	1148	452	957	377	479	188
422	Hazelnut Brown-LT	497	194	414	162	207	81
433	Brown-MD	2322	913	1935	761	968	380
434	Brown-LT	1136	446	947	372	473	186
435	Brown-VY LT	1055	414	879	345	440	173
436	Tan	598	234	498	195	249	98
437	Tan-LT	220	86	183	72	92	36
451	Shell Gray-DK	1253	493	1044	411	522	206
452	Shell Gray-MD	167	65	140	54	70	27
453	Shell Gray-LT	76	29	63	24	32	12
500	Blue Green-VY DK	914	360	762	300	381	150
520	Fern Green-DK	104	40	87	33	44	17
535	Ash Gray -VY LT	1094	430	912	359	456	179
543	Beige Brown-UL VY LT	110	43	92	36	46	18
610	Drab Brown-DK	2111	830	1760	692	880	346
611	Drab Brown	531	209	443	174	221	87
612	Drab Brown-LT	202	79	168	66	84	33
613	Drab Brown-VY LT	144	56	120	47	60	23
632	Desert Sand-UL VY DK	353	139	294	116	147	58
640	Beige Gray-VY DK	1919	754	1599	629	800	314
645	Beaver Gray-VY DK	2012	792	1677	660	839	330
646	Beaver Gray-DK	713	279	594	233	297	116
647	Beaver Gray-MD	394	155	329	129	164	65
676	Old Gold-LT	122	47	102	39	51	20
680	Old Gold-DK	279	110	233	92	116	46
725	Topaz	11	4	9	3	5	2
729	Old Gold-MD	869	342	725	285	362	143
738	Tan-VY LT	342	133	285	111	143	56
739	Tan-UL VY LT	74	29	62	24	31	12
745	Yellow -LT Pale	328	128	273	107	137	53
780	Topaz-UL VY DK	1112	437	927	365	464	182
782	Topaz-DK	331	130	276	108	138	54
783	Topaz-MD	70	27	59	23	29	11
801	Coffee Brown-DK	1208	475	1007	396	503	198
822	Beige Gray-LT	76	29	63	24	32	12
823	Navy Blue-DK	3020	1188	2517	990	1259	495
829	Golden Olive-VY DK	1321	518	1101	432	551	216
831	Golden Olive-MD	1463	576	1220	480	610	240
838	Beige Brown-VY DK	608	239	507	200	254	100
839	Beige Brown-DK	4189	1649	3491	1374	1745	687
840	Beige Brown-MD	268	104	224	87	112	44
841	Beige Brown-LT	643	252	536	210	268	105
842	Beige Brown-VY LT	430	169	359	141	179	71
844	Beaver Brown-UL DK	2668	1049	2223	875	1112	437
869	Hazelnut Brown-VY DK	2592	1019	2160	849	1080	425
898	Coffee Brown-VY DK	2180	857	1817	714	908	357
902	Garnet-VY DK	1588	625	1323	521	662	260
924	Gray Green-VY DK	122	47	102	39	51	20
930	Antique Blue-DK	32	13	27	11	14	5
934	Black Avocado Green	796	313	663	261	332	131
938	Coffee Brown-UL DK	9882	3890	8235	3242	4118	1621
939	Navy Blue-VY DK	821	322	684	269	342	134
948	Peach-VY LT	32	13	27	11	14	5
975	Golden Brown-DK	688	270	573	225	287	113

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976	Golden Brown-MD	527	207	440	173	220	86
977	Golden Brown-LT	227	88	189	74	95	37
3011	Khaki Green-DK	958	376	798	314	399	157
3012	Khaki Green-MD	74	29	62	24	31	12
3021	Brown Gray-VY DK	4136	1627	3447	1356	1724	678
3022	Brown Gray-MD	92	36	77	30	38	15
3023	Brown Gray-LT	164	63	137	53	68	26
3031	Mocha Brown-VY DK	904	355	753	296	377	148
3032	Mocha Brown-MD	661	259	551	216	275	108
3041	Antique Violet-MD	83	32	69	27	35	14
3045	Yellow Beige-DK	148	58	123	48	62	24
3046	Yellow Beige-MD	175	68	146	57	73	29
3051	Green Gray-DK	832	326	693	272	347	136
3052	Green Gray-MD	45	16	38	14	19	7
3078	Golden Yellow-VY LT	130	50	108	42	54	21
3362	Pine Green-DK	113	43	95	36	47	18
3371	Black Brown	1136	446	947	372	473	186
3750	Antique Blue-VY DK	113	43	95	36	47	18
3768	Gray Green-DK	34	13	29	11	14	5
3772	Desert Sand-VY DK	214	83	179	69	89	35
3781	Mocha Brown-DK	2041	803	1701	669	851	335
3782	Mocha Brown-LT	661	259	551	216	275	108
3787	Brown Gray-DK	2687	1057	2240	881	1120	440
3790	Beige Gray-UL DK	1138	446	948	372	474	186
3799	Pewter Gray-VY DK	5306	2088	4422	1740	2211	870
3802	Antique Mauve-VY DK	1233	484	1028	404	514	202
3821	Straw	106	41	89	35	44	17
3822	Straw-LT	115	45	96	38	48	19
3826	Golden Brown	148	58	123	48	62	24
3827	Golden Brown-Pale	873	342	728	285	364	143
3828	Hazelnut Brown	475	185	396	155	198	77
3829	Old Gold-VY DK	574	225	479	188	239	94
3852	Straw-VY DK	58	22	48	18	24	9
3855	Autumn Gold-LT	963	378	803	315	401	158
3857	Rosewood-DK	455	178	380	149	190	74
3860	Cocoa	2896	1139	2414	950	1207	475
3861	Cocoa-LT	603	236	503	197	251	98
3862	Mocha Beige-DK	1705	670	1421	558	710	279
3863	Mocha Beige-MD	850	333	708	278	354	139

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	63	24	60	24	58	23
300	Mahogany-VY DK	340	133	327	128	315	123
301	Mahogany-MD	102	40	98	38	95	37
310	Black	195	76	188	73	181	71
317	Pewter Gray	23	9	22	8	21	8
370	Mustard-MD	40	15	38	15	37	14
371	Mustard	83	32	80	31	77	30
400	Mahogany-DK	174	68	168	66	161	63
407	Desert Sand-DK	140	55	134	53	129	51
420	Hazelnut Brown-DK	459	181	442	174	425	167
422	Hazelnut Brown-LT	199	78	191	75	184	72
433	Brown-MD	929	365	893	351	860	338
434	Brown-LT	454	179	437	172	421	165

435	Brown-VY LT	422	166	406	159	391	153
436	Tan	239	94	230	90	221	87
437	Tan-LT	88	35	84	33	81	32
451	Shell Gray-DK	501	197	482	190	464	183
452	Shell Gray-MD	67	26	64	25	62	24
453	Shell Gray-LT	30	12	29	11	28	11
500	Blue Green-VY DK	366	144	352	138	339	133
520	Fern Green-DK	42	16	40	15	39	15
535	Ash Gray-VY LT	438	172	421	165	405	159
543	Beige Brown-UL VY LT	44	17	42	17	41	16
610	Drab Brown-DK	845	332	812	319	782	307
611	Drab Brown	212	84	204	80	197	77
612	Drab Brown-LT	81	32	78	30	75	29
613	Drab Brown-VY LT	58	22	55	21	53	21
632	Desert Sand-UL VY DK	141	55	136	53	131	51
640	Beige Gray-VY DK	768	302	738	290	711	279
645	Beaver Gray-VY DK	805	317	774	305	745	293
646	Beaver Gray-DK	285	112	274	107	264	103
647	Beaver Gray-MD	158	62	152	60	146	57
676	Old Gold-LT	49	19	47	18	45	17
680	Old Gold-DK	112	44	107	42	103	41
725	Topaz	4	1	4	1	4	1
729	Old Gold-MD	348	137	334	132	322	127
738	Tan-VY LT	137	53	132	51	127	49
739	Tan-UL VY LT	30	12	28	11	27	11
745	Yellow-LT Pale	131	51	126	49	121	47
780	Topaz-UL VY DK	445	175	428	168	412	162
782	Topaz-DK	132	52	127	50	123	48
783	Topaz-MD	28	11	27	10	26	10
801	Coffee Brown-DK	483	190	465	183	447	176
822	Beige Gray-LT	30	12	29	11	28	11
823	Navy Blue-DK	1208	475	1162	457	1119	440
829	Golden Olive-VY DK	528	207	508	199	489	192
831	Golden Olive-MD	585	230	563	222	542	213
838	Beige Brown-VY DK	243	96	234	92	225	89
839	Beige Brown-DK	1675	660	1611	634	1551	611
840	Beige Brown-MD	107	42	103	40	99	39
841	Beige Brown-LT	257	101	247	97	238	93
842	Beige Brown-VY LT	172	68	165	65	159	63
844	Beaver Brown-UL DK	1067	420	1026	404	988	389
869	Hazelnut Brown-VY DK	1037	408	997	392	960	377
898	Coffee Brown-VY DK	872	343	838	330	807	317
902	Garnet-VY DK	635	250	611	240	588	231
924	Gray Green-VY DK	49	19	47	18	45	17
930	Antique Blue-DK	13	5	12	5	12	5
934	Black Avocado Green	318	125	306	120	295	116
938	Coffee Brown-UL DK	3953	1556	3801	1496	3660	1441
939	Navy Blue-VY DK	328	129	316	124	304	119
948	Peach-VY LT	13	5	12	5	12	5
975	Golden Brown-DK	275	108	264	104	255	100
976	Golden Brown-MD	211	83	203	80	195	77
977	Golden Brown-LT	91	35	87	34	84	33
3011	Khaki Green-DK	383	150	368	145	355	139
3012	Khaki Green-MD	30	12	28	11	27	11
3021	Brown Gray-VY DK	1655	651	1591	626	1532	603
3022	Brown Gray-MD	37	14	35	14	34	13
3023	Brown Gray-LT	66	25	63	24	61	23
3031	Mocha Brown-VY DK	361	142	348	136	335	131
3032	Mocha Brown-MD	264	104	254	100	245	96

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3041	Antique Violet-MD	33	13	32	12	31	12
3045	Yellow Beige-DK	59	23	57	22	55	21
3046	Yellow Beige-MD	70	27	67	26	65	25
3051	Green Gray-DK	333	130	320	125	308	121
3052	Green Gray-MD	18	6	17	6	17	6
3078	Golden Yellow -VY LT	52	20	50	19	48	19
3362	Pine Green-DK	45	17	44	17	42	16
3371	Black Brown	454	179	437	172	421	165
3750	Antique Blue-VY DK	45	17	44	17	42	16
3768	Gray Green-DK	14	5	13	5	13	5
3772	Desert Sand-VY DK	86	33	82	32	79	31
3781	Mocha Brown-DK	816	321	785	309	756	297
3782	Mocha Brown-LT	264	104	254	100	245	96
3787	Brown Gray -DK	1075	423	1034	406	995	391
3790	Beige Gray-UL DK	455	179	438	172	421	165
3799	Pewter Gray -VY DK	2123	835	2041	803	1965	773
3802	Antique Mauve-VY DK	493	194	474	186	457	179
3821	Straw	42	17	41	16	39	15
3822	Straw -LT	46	18	44	17	43	17
3826	Golden Brown	59	23	57	22	55	21
3827	Golden Brown+Pale	349	137	336	132	323	127
3828	Hazelnut Brown	190	74	183	71	176	69
3829	Old Gold-VY DK	230	90	221	87	213	83
3852	Straw -VY DK	23	9	22	8	21	8
3855	Autumn Gold-LT	385	151	370	145	357	140
3857	Rosewood-DK	182	71	175	69	169	66
3860	Cocoa	1158	456	1114	438	1073	422
3861	Cocoa-LT	241	94	232	91	223	87
3862	Mocha Beige-DK	682	268	656	258	631	248
3863	Mocha Beige-MD	340	133	327	128	315	123

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	56	22	52	20	49	19
300	Mahogany-VY DK	303	119	283	111	266	104
301	Mahogany-MD	91	35	85	33	80	31
310	Black	174	68	163	64	152	60
317	Pewter Gray	21	8	19	7	18	7
370	Mustard-MD	35	14	33	13	31	12
371	Mustard	74	29	69	27	65	25
400	Mahogany-DK	156	61	145	57	136	53
407	Desert Sand-DK	125	49	116	46	109	43
420	Hazelnut Brown-DK	410	161	383	151	359	141
422	Hazelnut Brown-LT	177	69	166	65	155	61
433	Brown-MD	829	326	774	304	726	285
434	Brown-LT	406	159	379	149	355	140
435	Brown-VY LT	377	148	352	138	330	129
436	Tan	213	84	199	78	187	73
437	Tan-LT	78	31	73	29	69	27
451	Shell Gray-DK	447	176	418	164	392	154
452	Shell Gray-MD	60	23	56	22	52	20
453	Shell Gray-LT	27	10	25	10	24	9
500	Blue Green-VY DK	327	129	305	120	286	113
520	Fern Green-DK	37	14	35	13	33	12
535	Ash Gray -VY LT	391	154	365	143	342	134
543	Beige Brown-UL VY LT	39	15	37	14	34	14

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610	Drab Brown-DK	754	296	704	277	660	259
611	Drab Brown	190	75	177	70	166	65
612	Drab Brown-LT	72	28	67	26	63	25
613	Drab Brown-VY LT	51	20	48	19	45	17
632	Desert Sand-UL VY DK	126	50	118	46	110	43
640	Beige Gray-VY DK	685	269	640	251	600	236
645	Beaver Gray-VY DK	719	283	671	264	629	248
646	Beaver Gray-DK	255	100	238	93	223	87
647	Beaver Gray-MD	141	55	131	52	123	48
676	Old Gold-LT	44	17	41	16	38	15
680	Old Gold-DK	100	39	93	37	87	34
725	Topaz	4	1	4	1	3	1
729	Old Gold-MD	311	122	290	114	272	107
738	Tan-VY LT	122	48	114	44	107	42
739	Tan-UL VY LT	26	10	25	10	23	9
745	Yellow -LT Pale	117	46	109	43	102	40
780	Topaz-UL VY DK	397	156	371	146	348	137
782	Topaz-DK	118	46	110	43	104	41
783	Topaz-MD	25	10	23	9	22	8
801	Coffee Brown-DK	431	170	403	158	377	149
822	Beige Gray-LT	27	10	25	10	24	9
823	Navy Blue-DK	1079	424	1007	396	944	371
829	Golden Olive-VY DK	472	185	440	173	413	162
831	Golden Olive-MD	523	206	488	192	457	180
838	Beige Brown-VY DK	217	86	203	80	190	75
839	Beige Brown-DK	1496	589	1396	550	1309	515
840	Beige Brown-MD	96	37	89	35	84	33
841	Beige Brown-LT	230	90	214	84	201	79
842	Beige Brown-VY LT	154	60	143	56	134	53
844	Beaver Brown-UL DK	953	375	889	350	834	328
869	Hazelnut Brown-VY DK	926	364	864	340	810	318
898	Coffee Brown-VY DK	779	306	727	286	681	268
902	Garnet-VY DK	567	223	529	208	496	195
924	Gray Green-VY DK	44	17	41	16	38	15
930	Antique Blue-DK	12	5	11	4	10	4
934	Black Avocado Green	284	112	265	104	249	98
938	Coffee Brown-UL DK	3529	1389	3294	1297	3088	1216
939	Navy Blue-VY DK	293	115	274	107	257	101
948	Peach-VY LT	12	5	11	4	10	4
975	Golden Brown-DK	246	96	229	90	215	84
976	Golden Brown-MD	188	74	176	69	165	65
977	Golden Brown-LT	81	32	76	29	71	28
3011	Khaki Green-DK	342	134	319	125	299	118
3012	Khaki Green-MD	26	10	25	10	23	9
3021	Brown Gray-VY DK	1477	581	1379	542	1293	509
3022	Brown Gray-MD	33	13	31	12	29	11
3023	Brown Gray-LT	59	23	55	21	51	20
3031	Mocha Brown-VY DK	323	127	301	118	282	111
3032	Mocha Brown-MD	236	93	220	86	206	81
3041	Antique Violet-MD	30	12	28	11	26	10
3045	Yellow Beige-DK	53	21	49	19	46	18
3046	Yellow Beige-MD	62	24	58	23	55	21
3051	Green Gray-DK	297	116	277	109	260	102
3052	Green Gray-MD	16	6	15	5	14	5
3078	Golden Yellow-VY LT	46	18	43	17	41	16
3362	Pine Green-DK	41	15	38	14	35	14
3371	Black Brown	406	159	379	149	355	140
3750	Antique Blue-VY DK	41	15	38	14	35	14
3768	Gray Green-DK	12	5	11	4	11	4

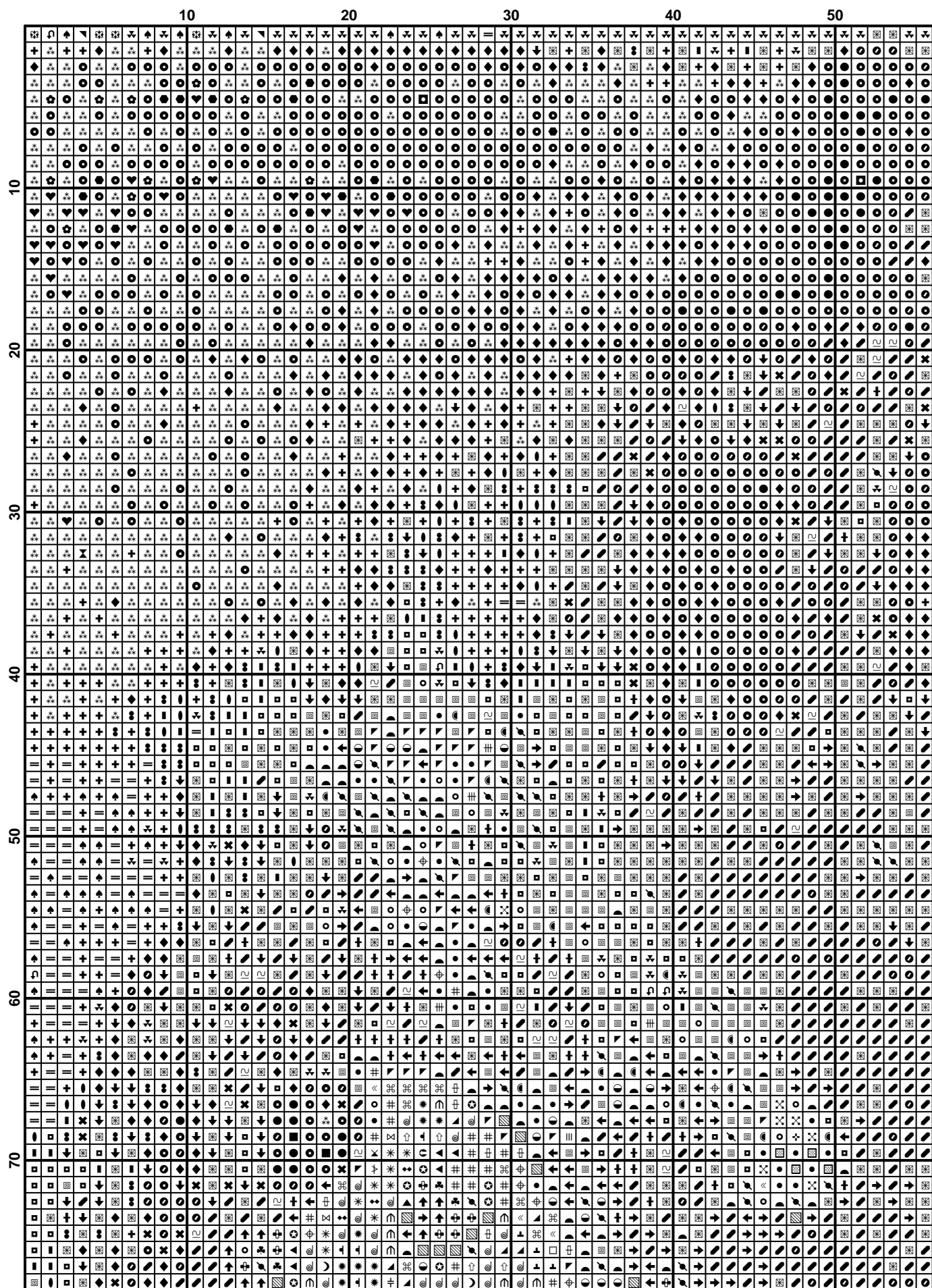
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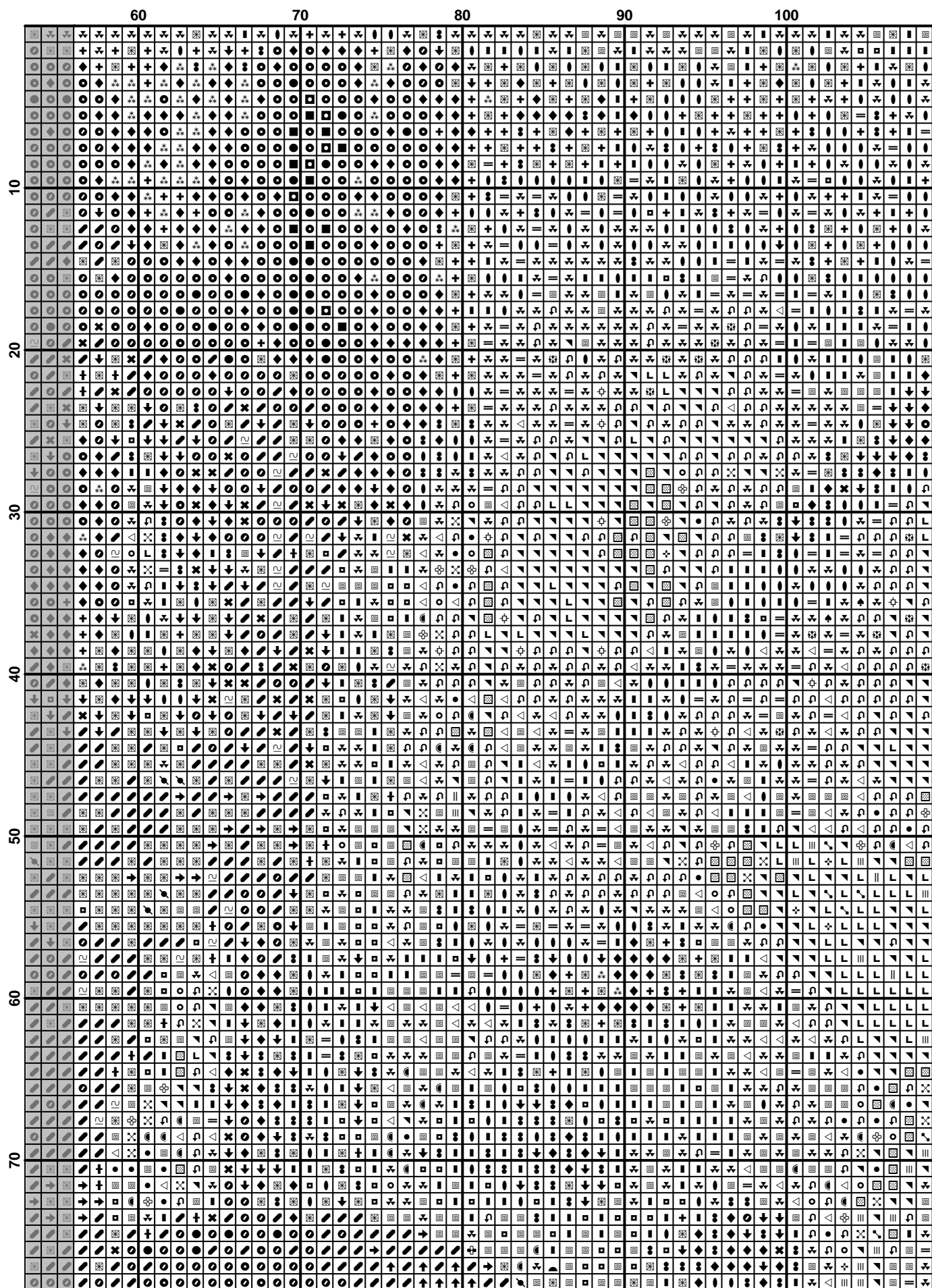
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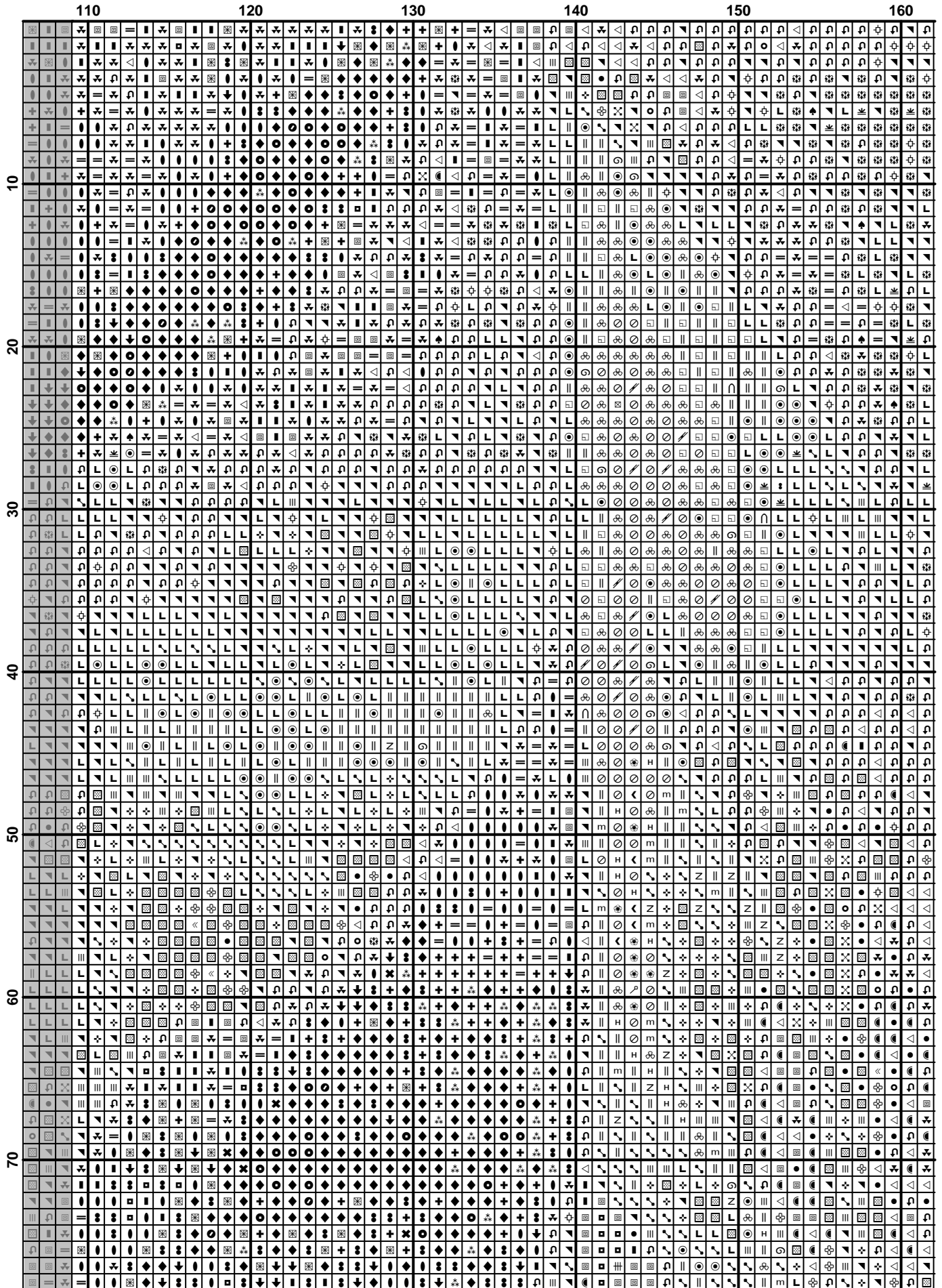
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3772	Desert Sand-VY DK	77	30	71	28	67	26
3781	Mocha Brown-DK	729	287	680	268	638	251
3782	Mocha Brown-LT	236	93	220	86	206	81
3787	Brown Gray -DK	960	377	896	352	840	330
3790	Beige Gray-UL DK	406	159	379	149	356	140
3799	Pewter Gray -VY DK	1895	746	1769	696	1658	653
3802	Antique Mauve-VY DK	440	173	411	161	385	151
3821	Straw	38	15	35	14	33	13
3822	Straw -LT	41	16	38	15	36	14
3826	Golden Brown	53	21	49	19	46	18
3827	Golden Brown-Pale	312	122	291	114	273	107
3828	Hazelnut Brown	170	66	158	62	149	58
3829	Old Gold-VY DK	205	80	191	75	179	70
3852	Straw -VY DK	21	8	19	7	18	7
3855	Autumn Gold-LT	344	135	321	126	301	118
3857	Rosewood-DK	163	64	152	59	142	56
3860	Cocoa	1034	407	965	380	905	356
3861	Cocoa-LT	215	84	201	79	188	74
3862	Mocha Beige-DK	609	239	568	223	533	209
3863	Mocha Beige-MD	303	119	283	111	266	104

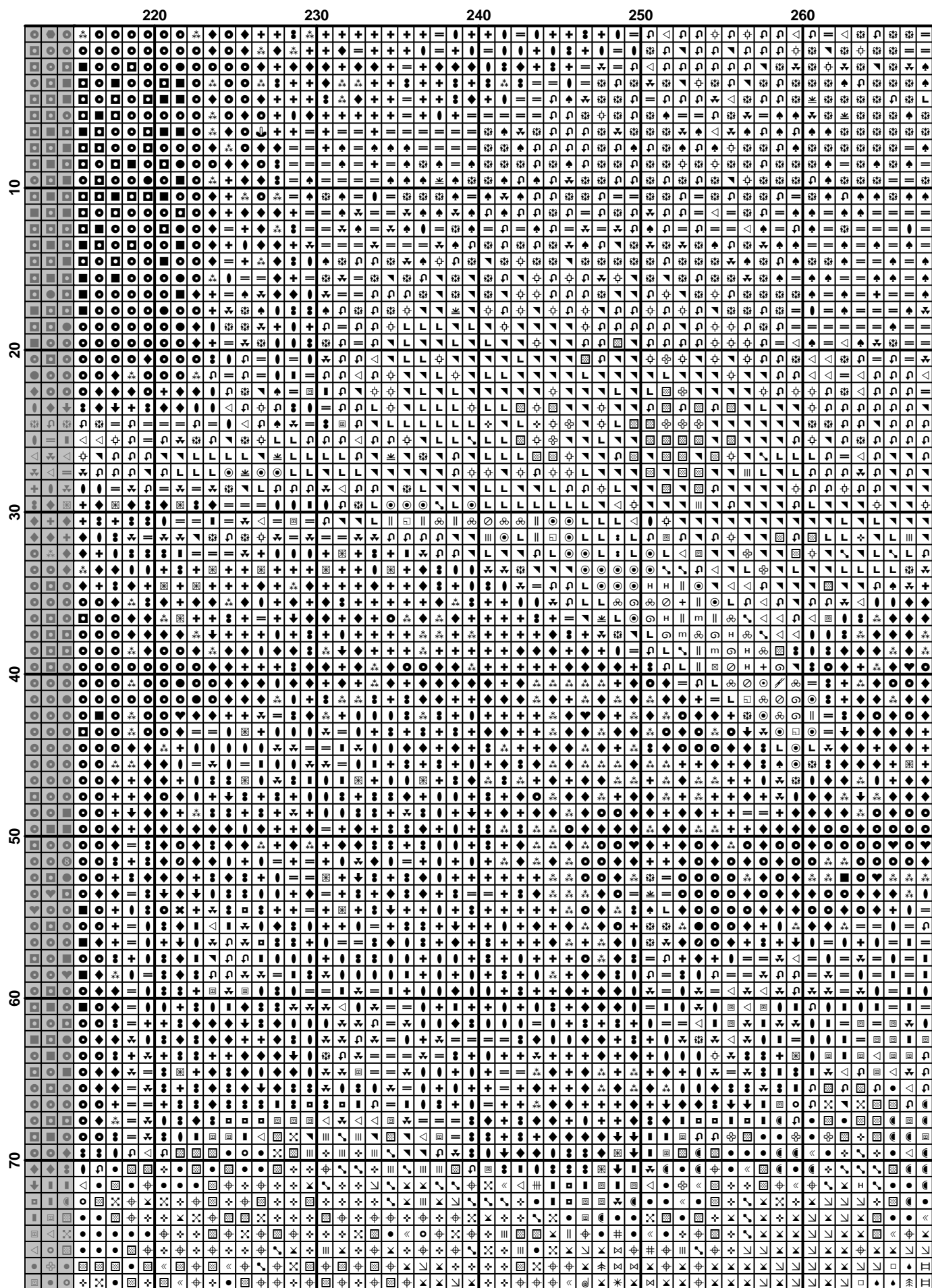






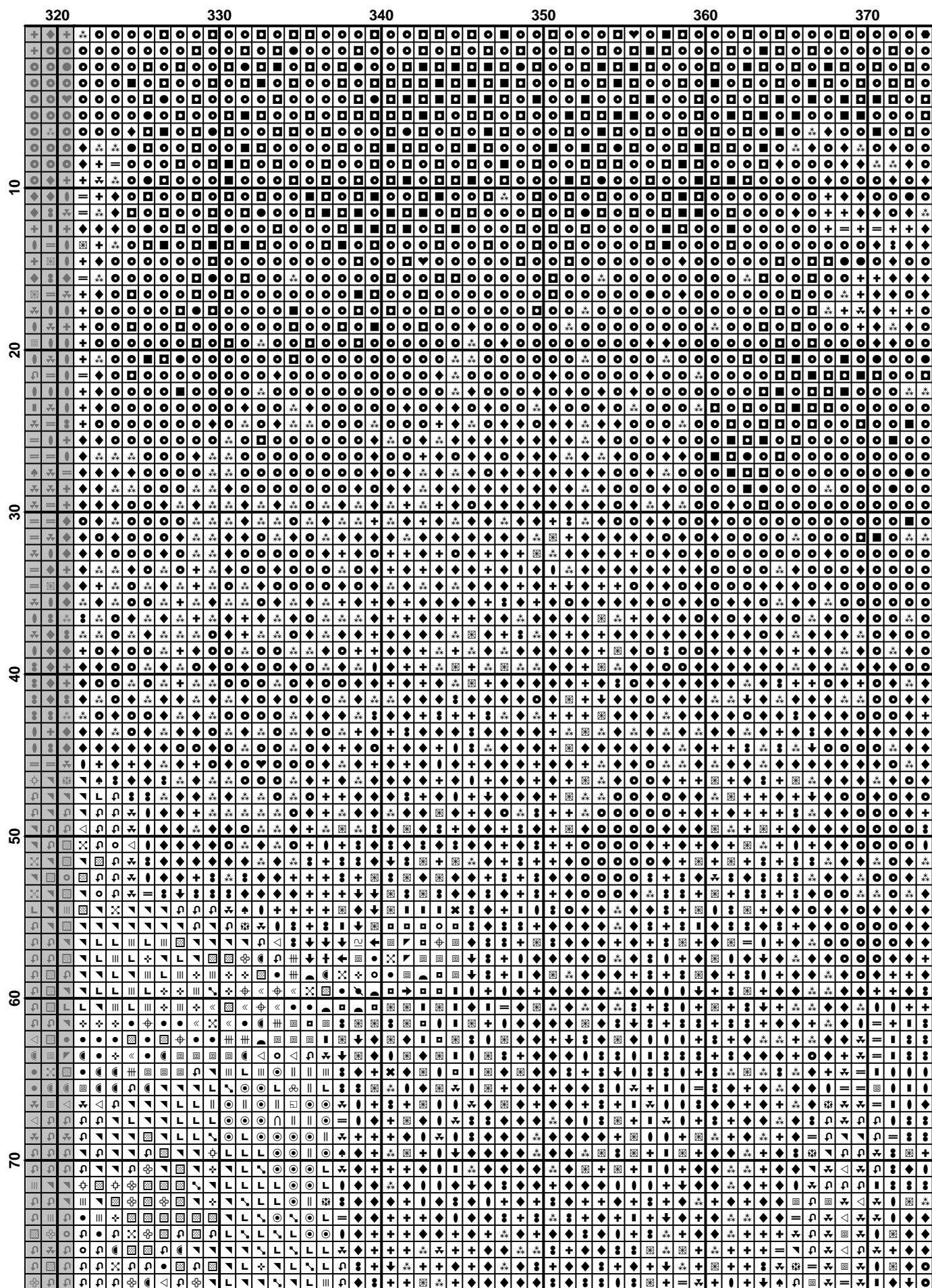


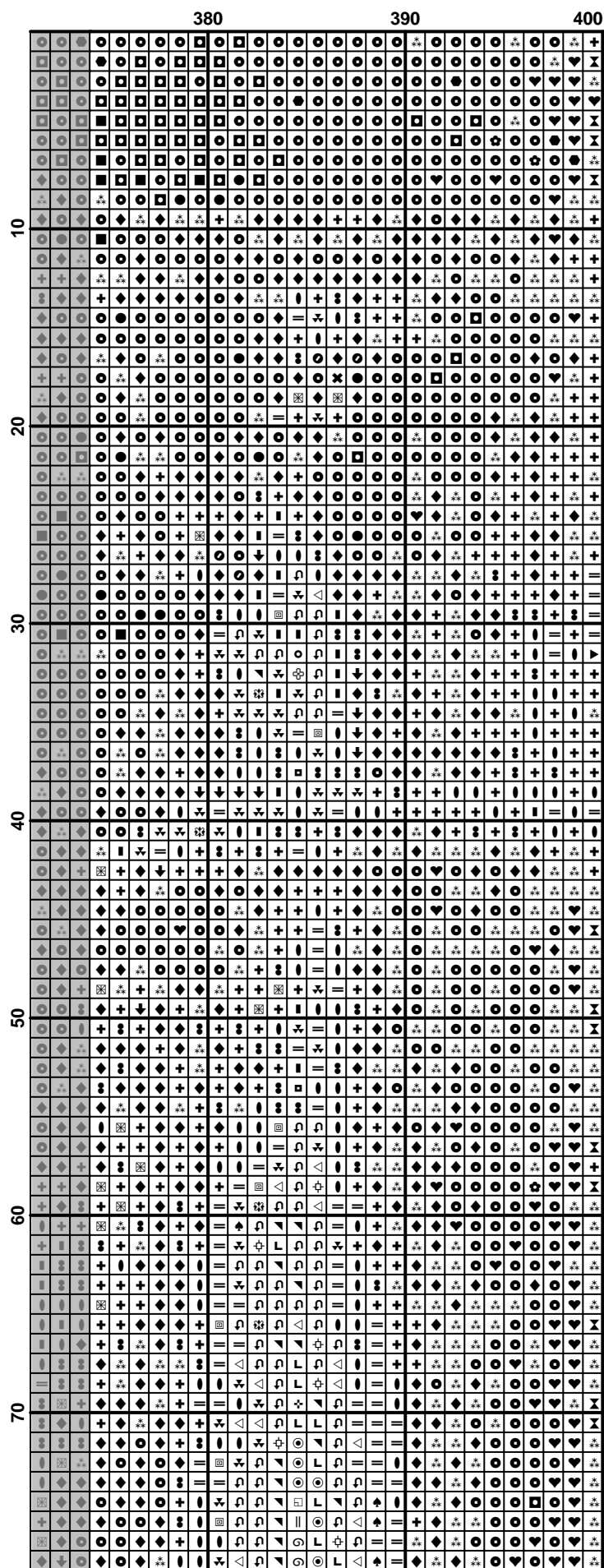


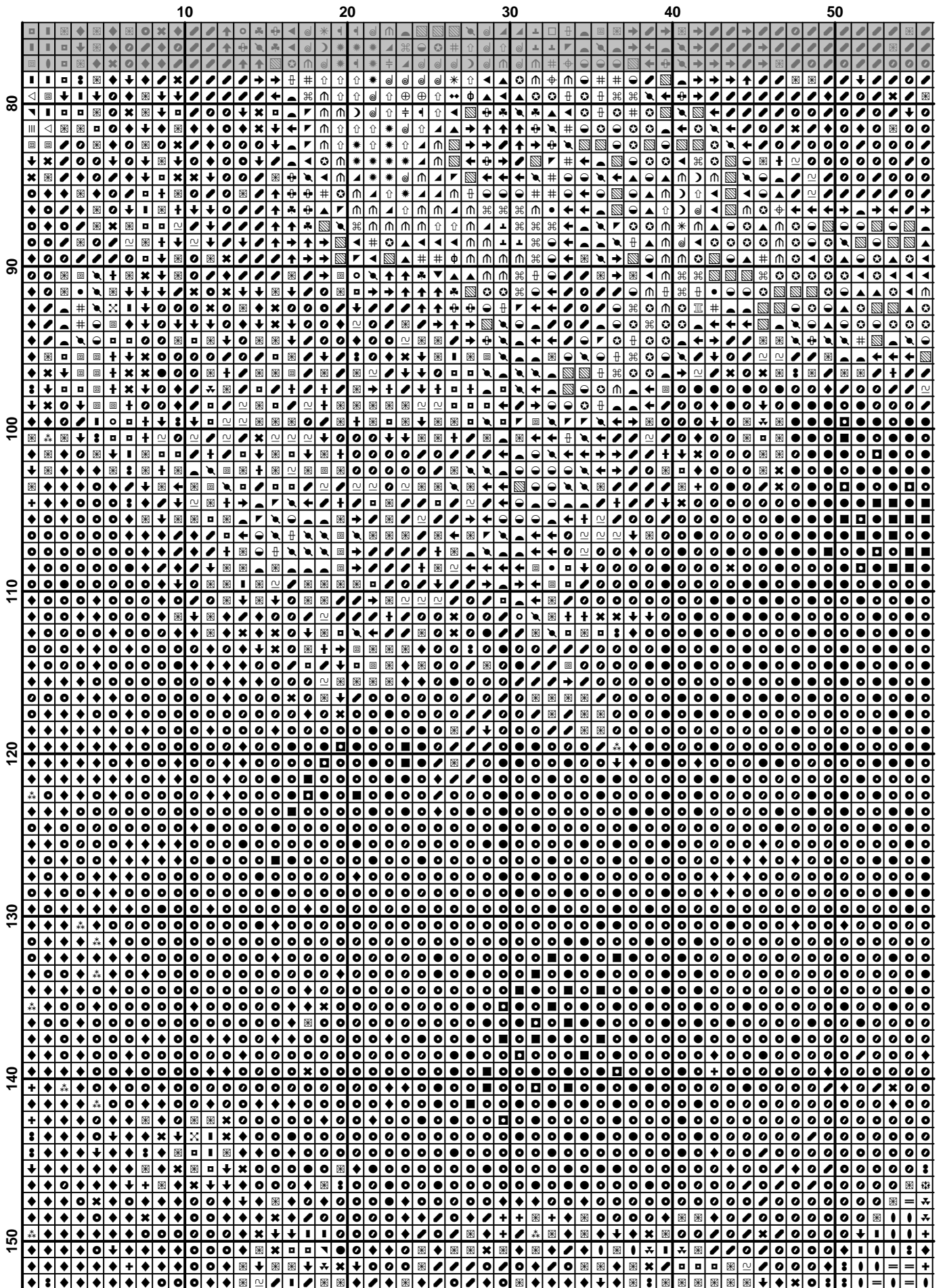


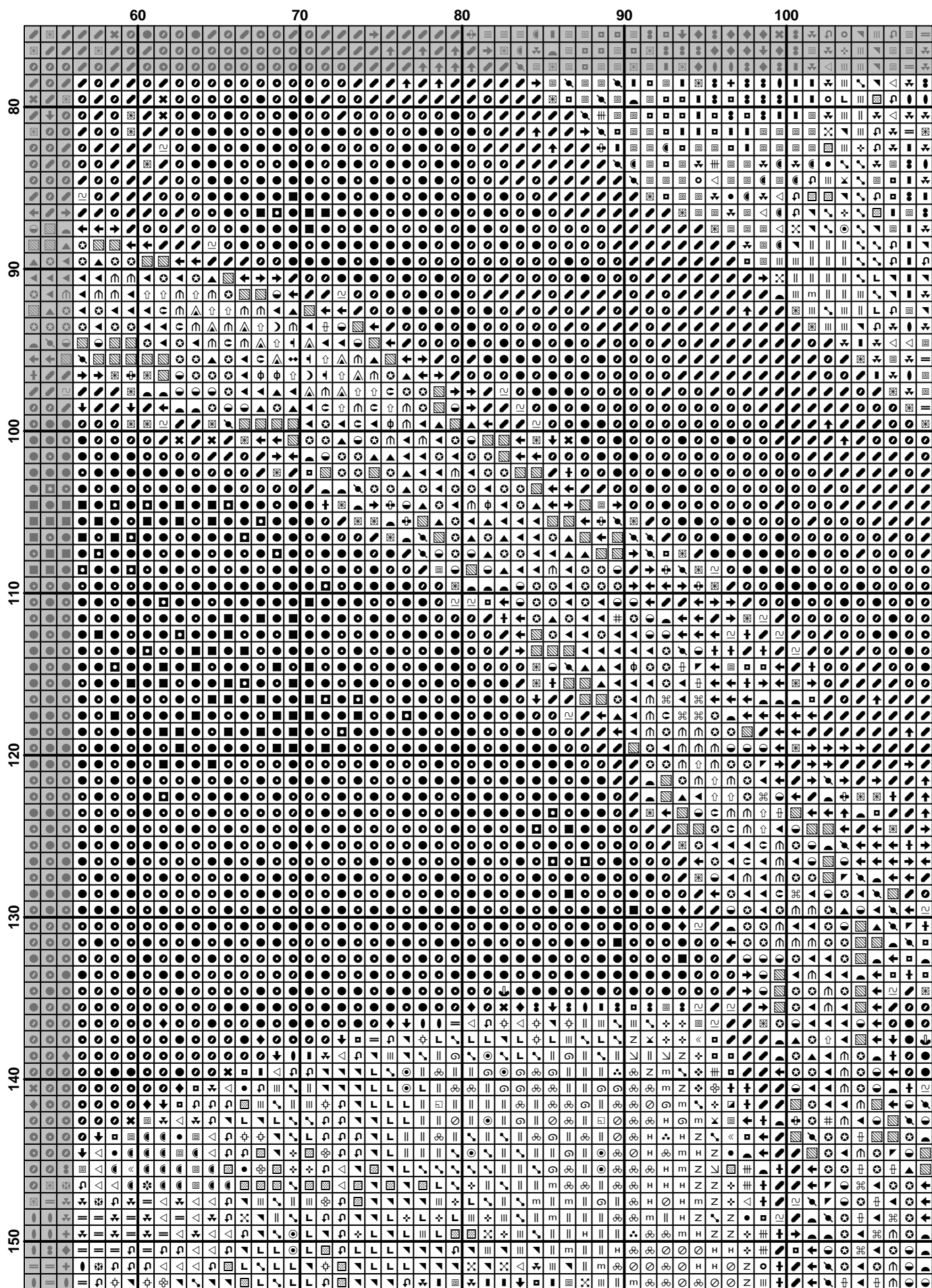
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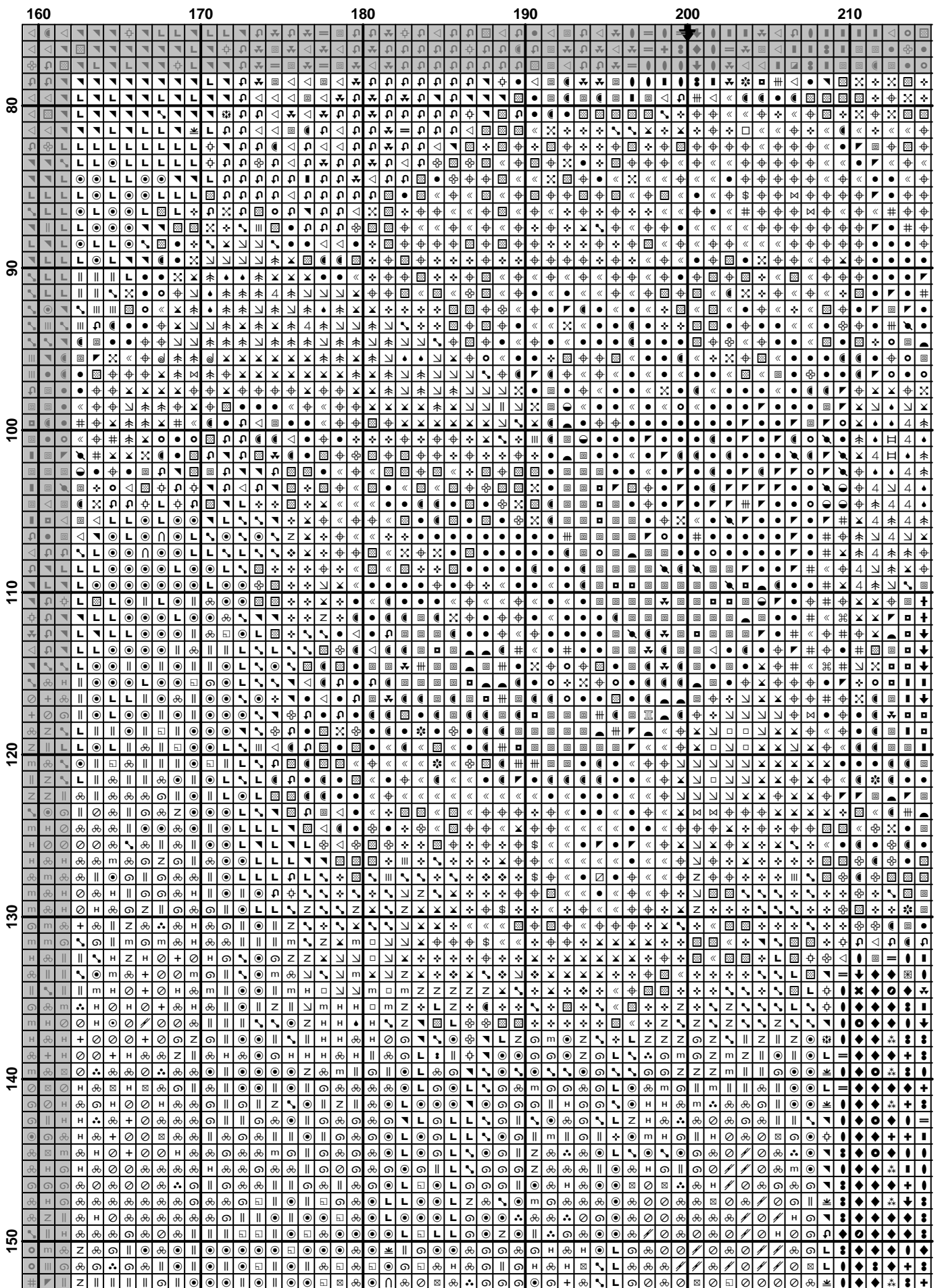




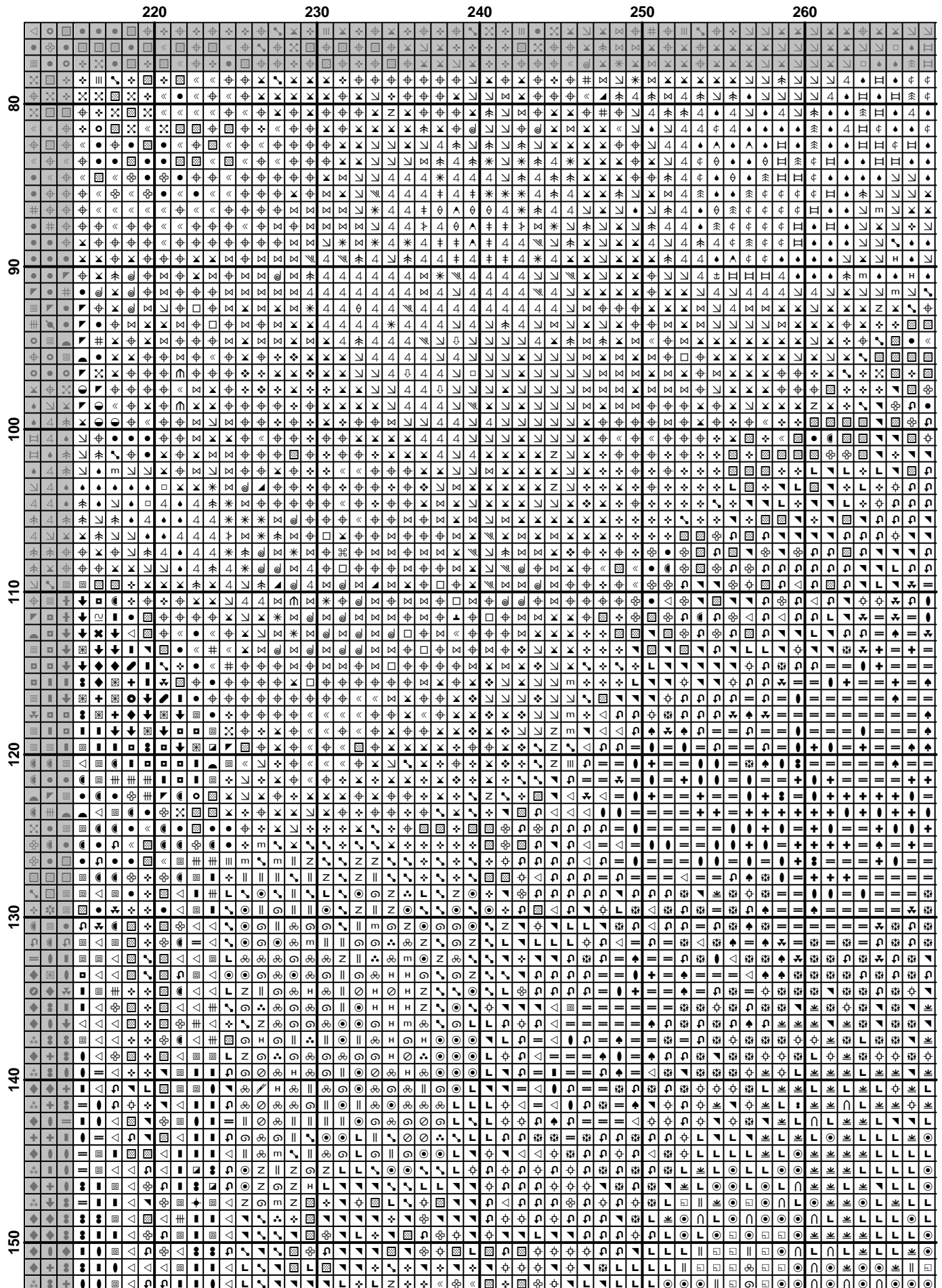


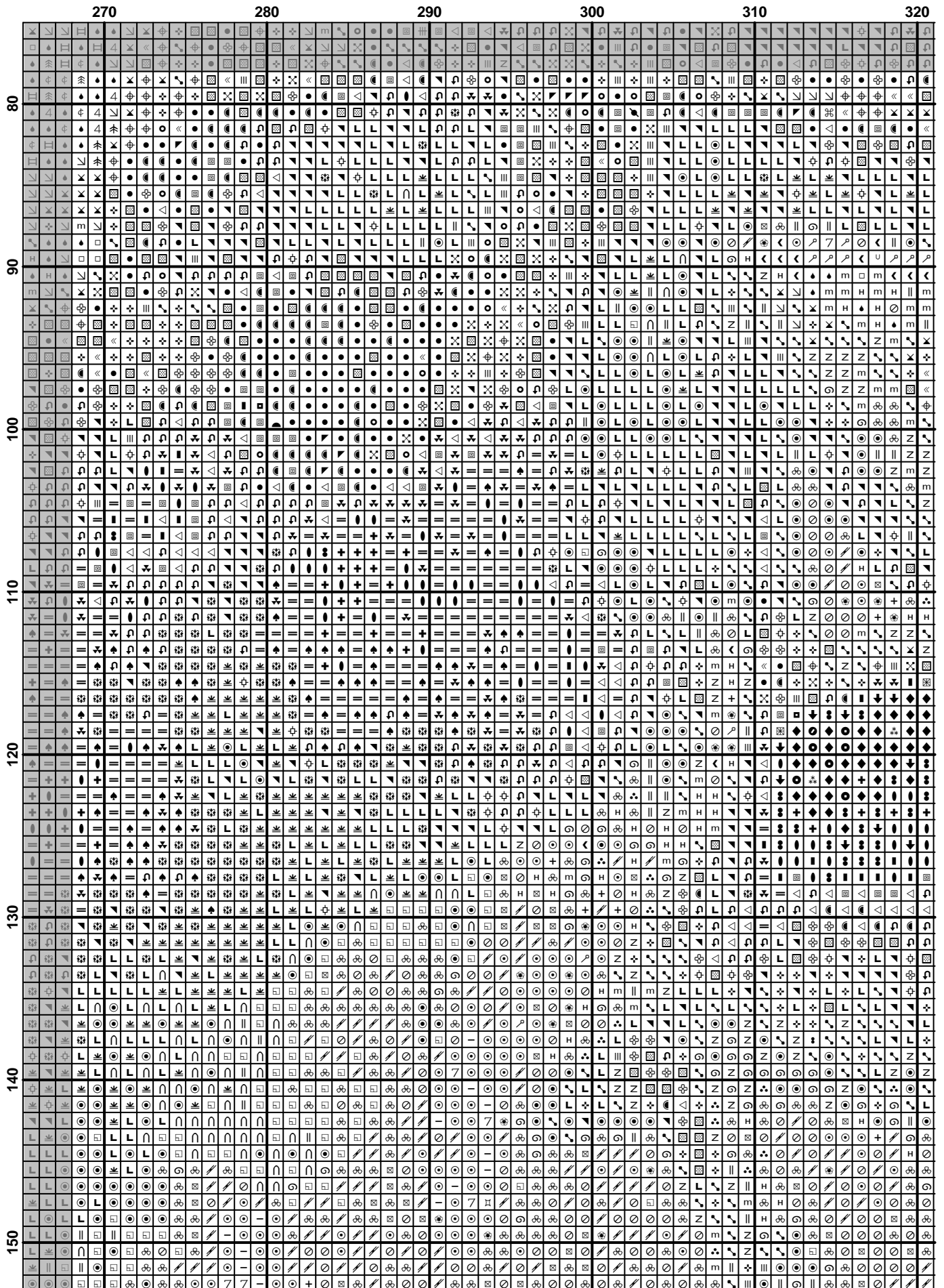


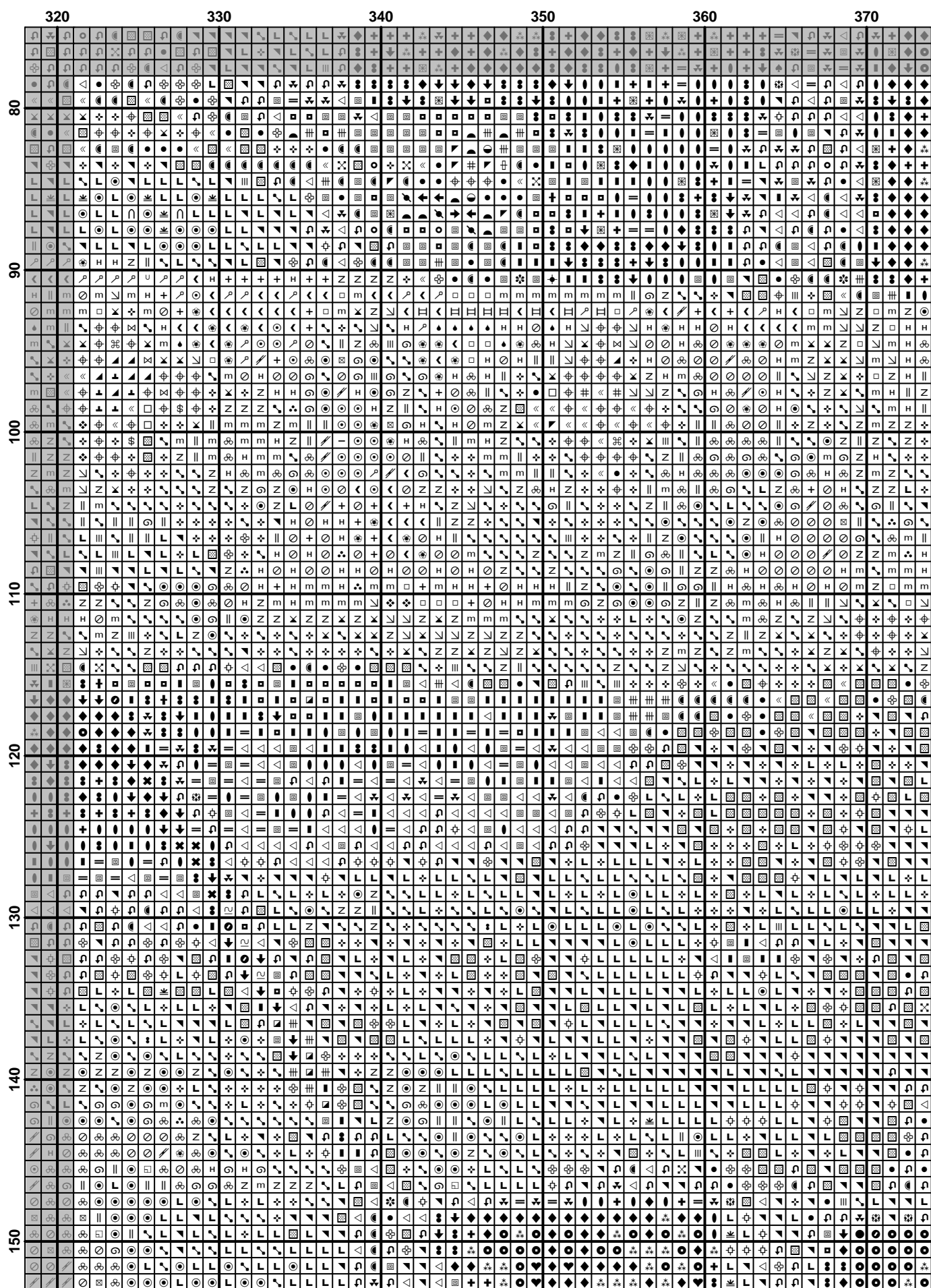
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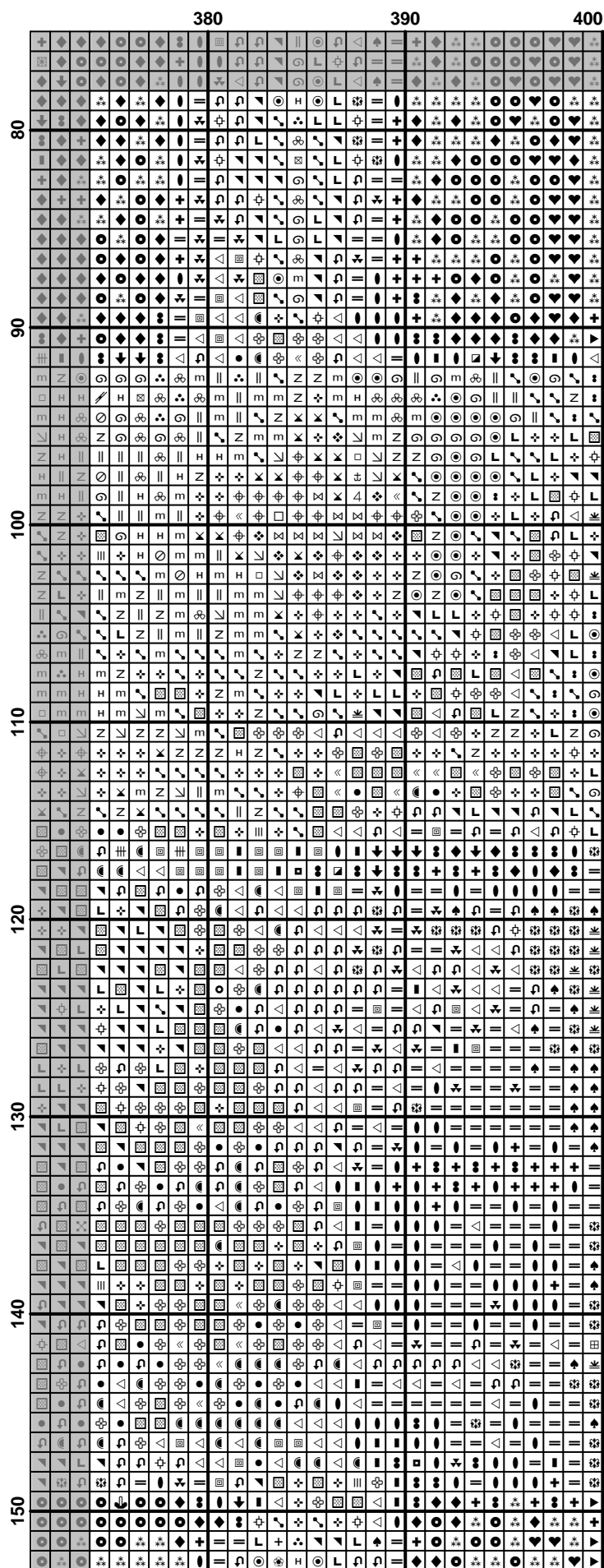


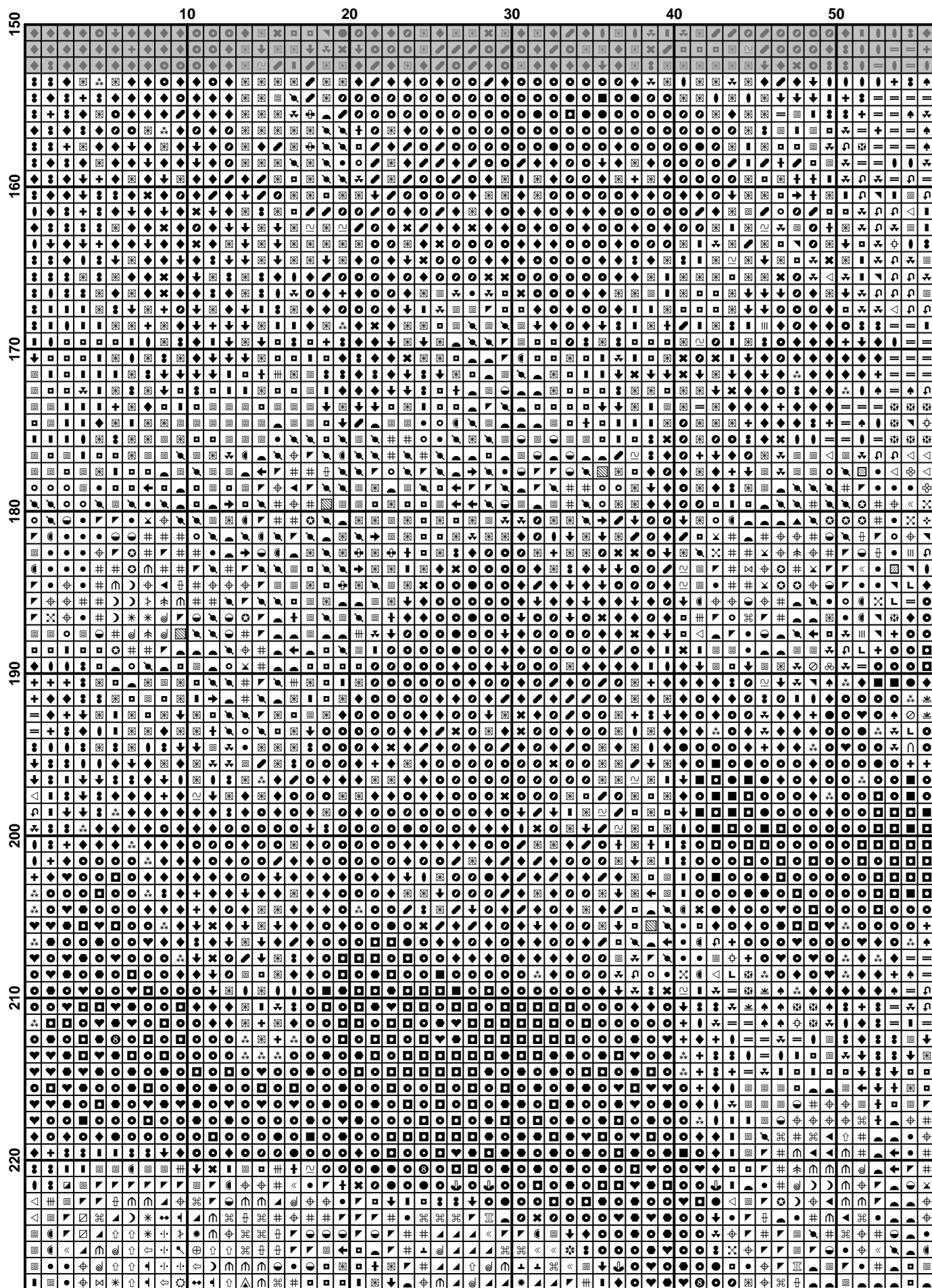


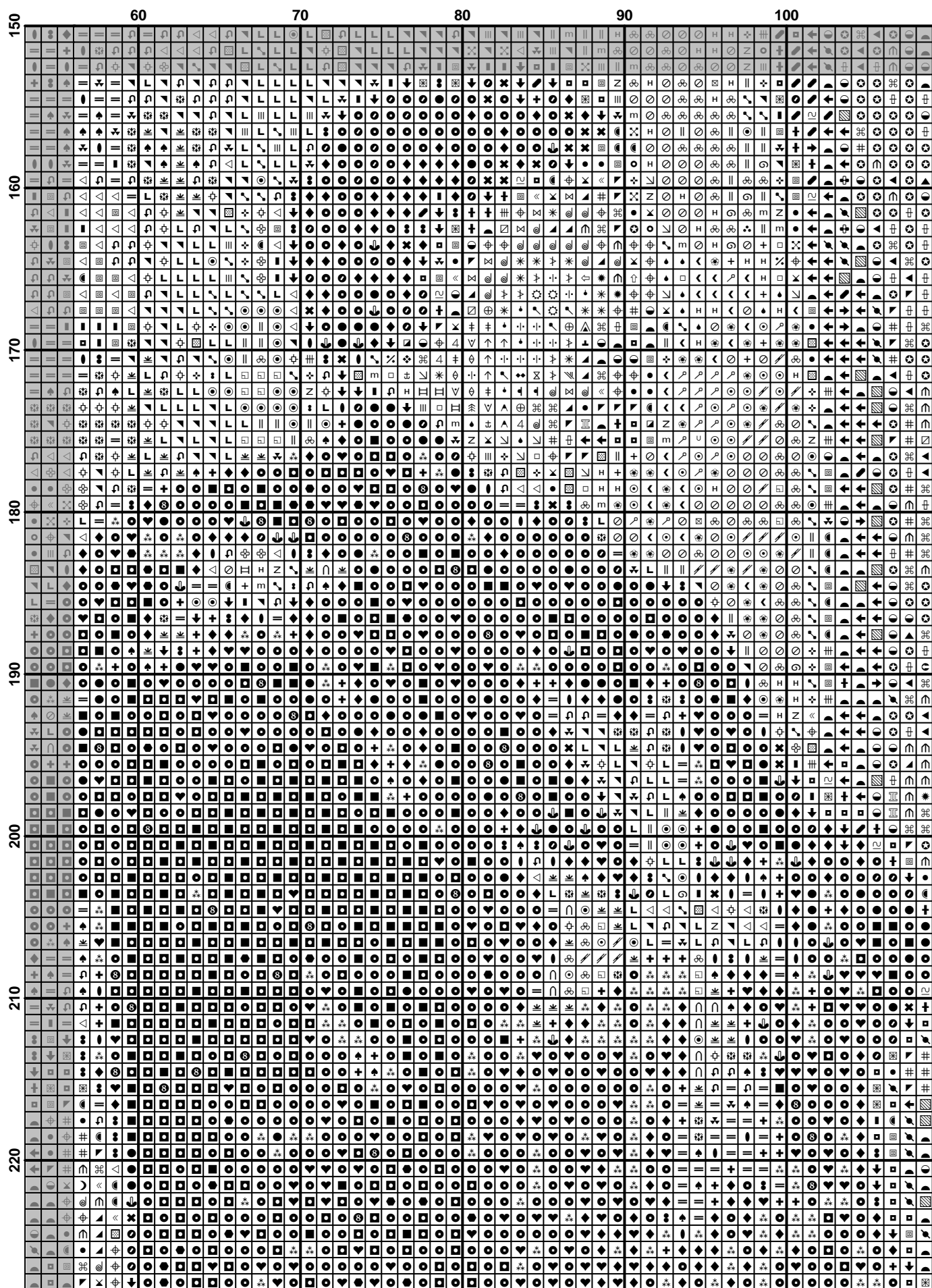




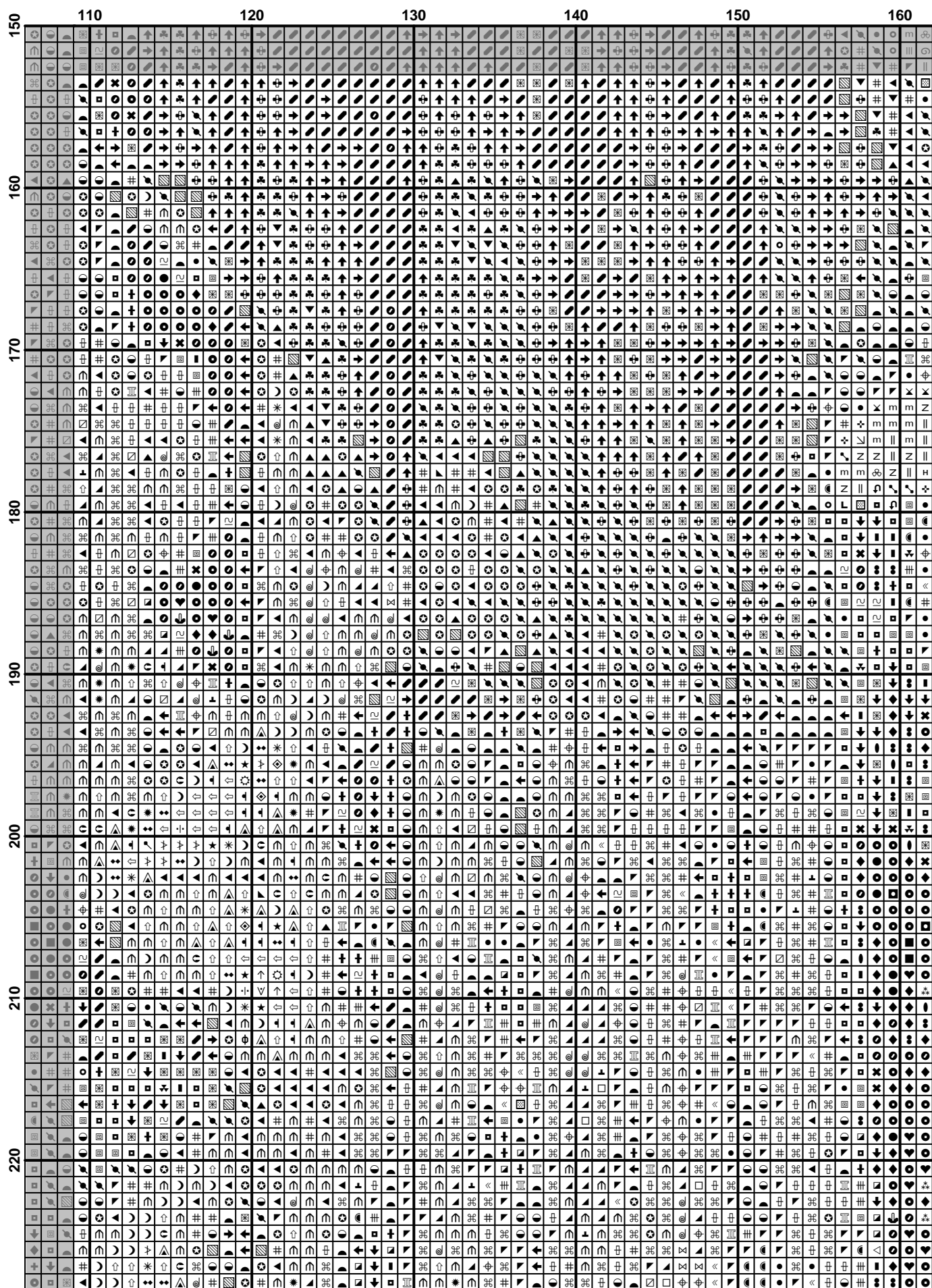


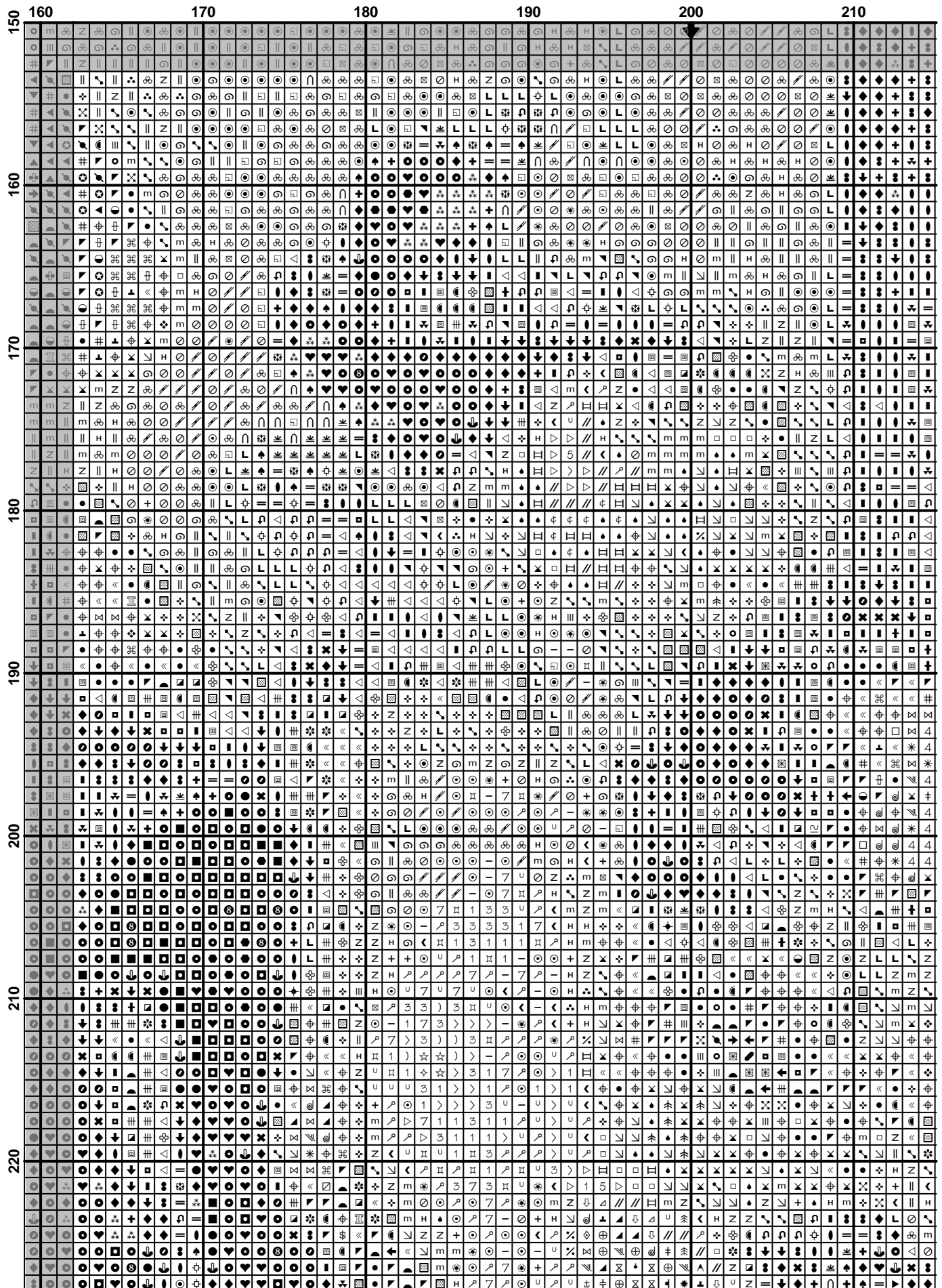






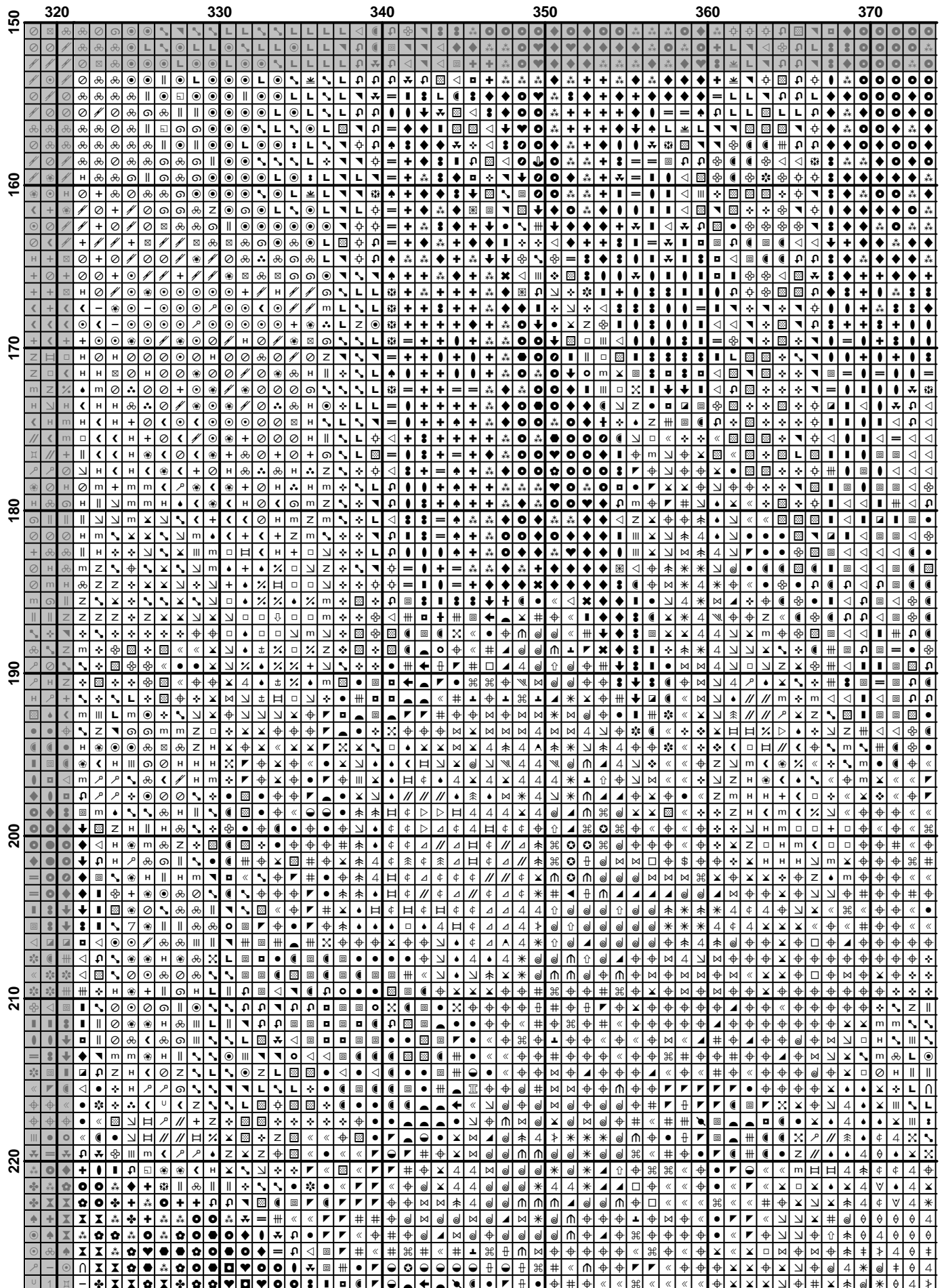


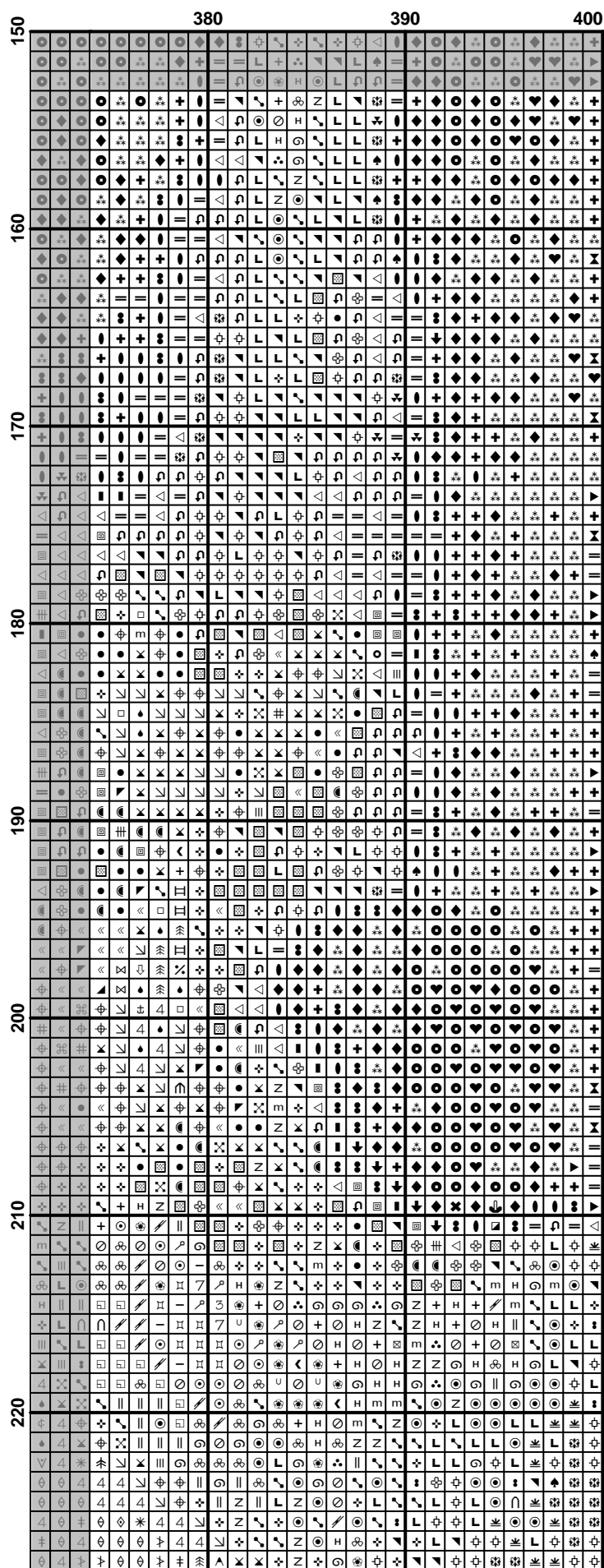


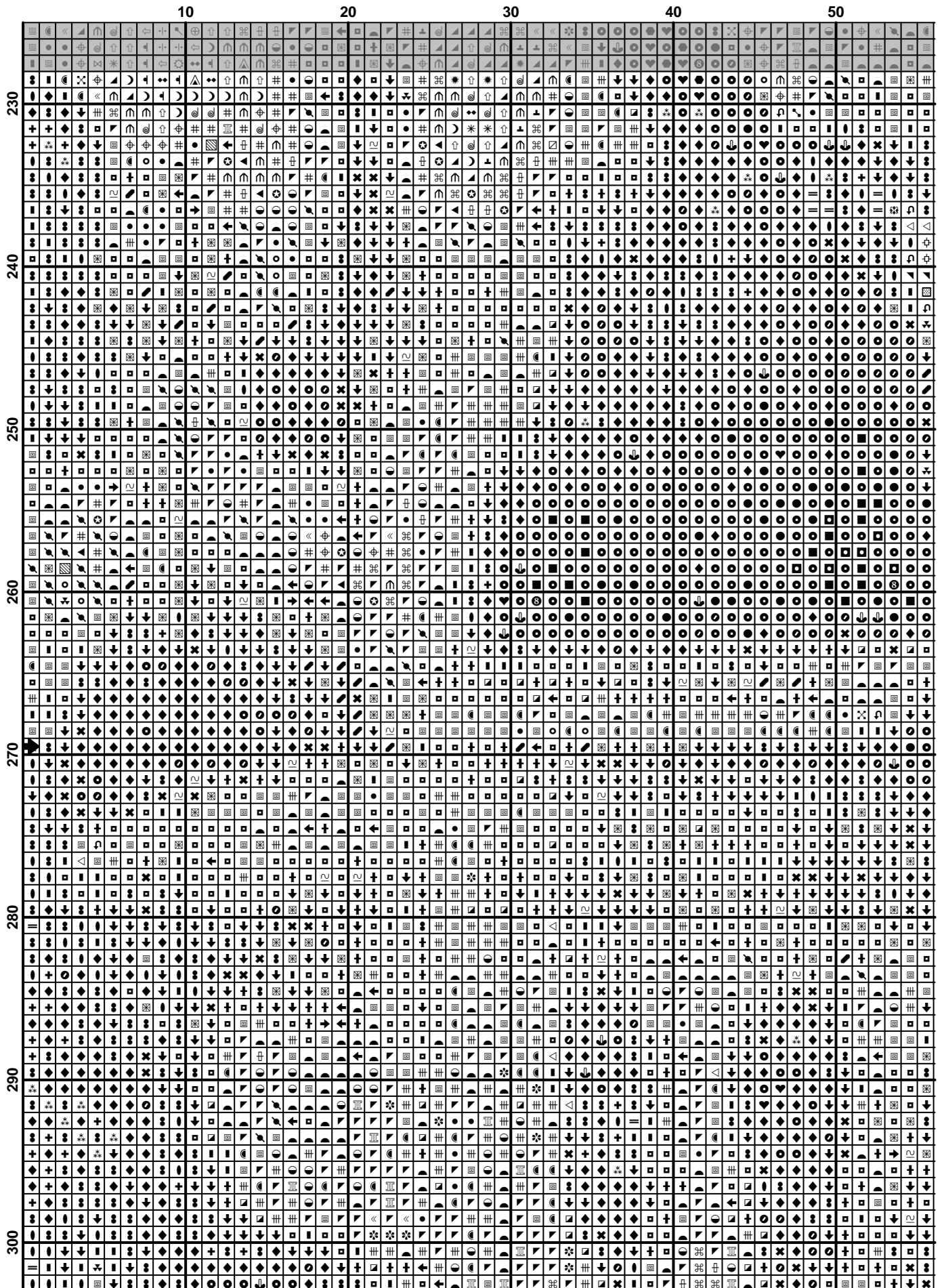


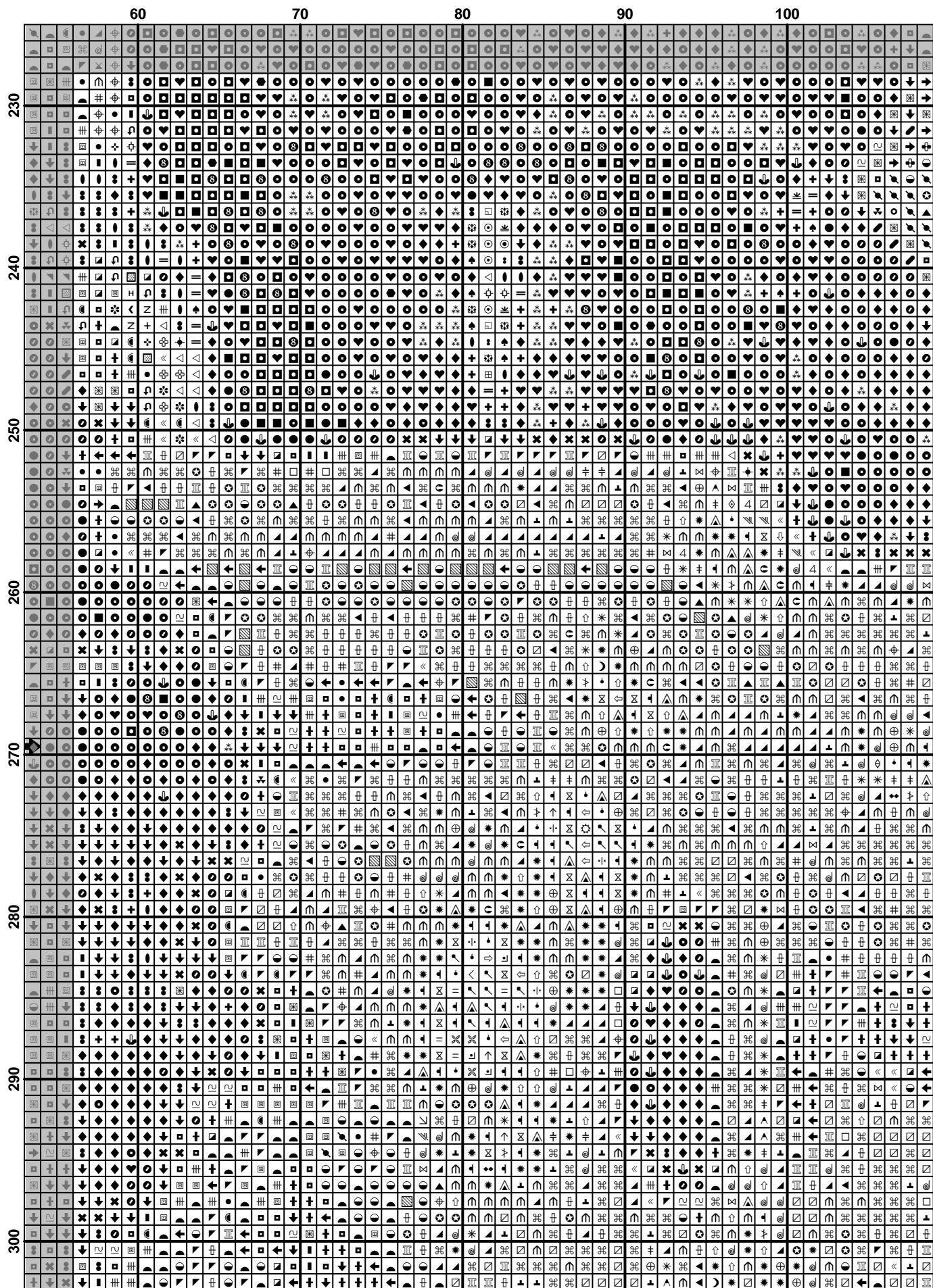
	220	230	240	250	260
150					
160					
170					
180					
190					
200					
210					
220					

	270	280	290	300	310	320
150	L	U	U	U	U	U
160	U	U	U	U	U	U
170	U	U	U	U	U	U
180	U	U	U	U	U	U
190	U	U	U	U	U	U
200	U	U	U	U	U	U
210	U	U	U	U	U	U
220	U	U	U	U	U	U

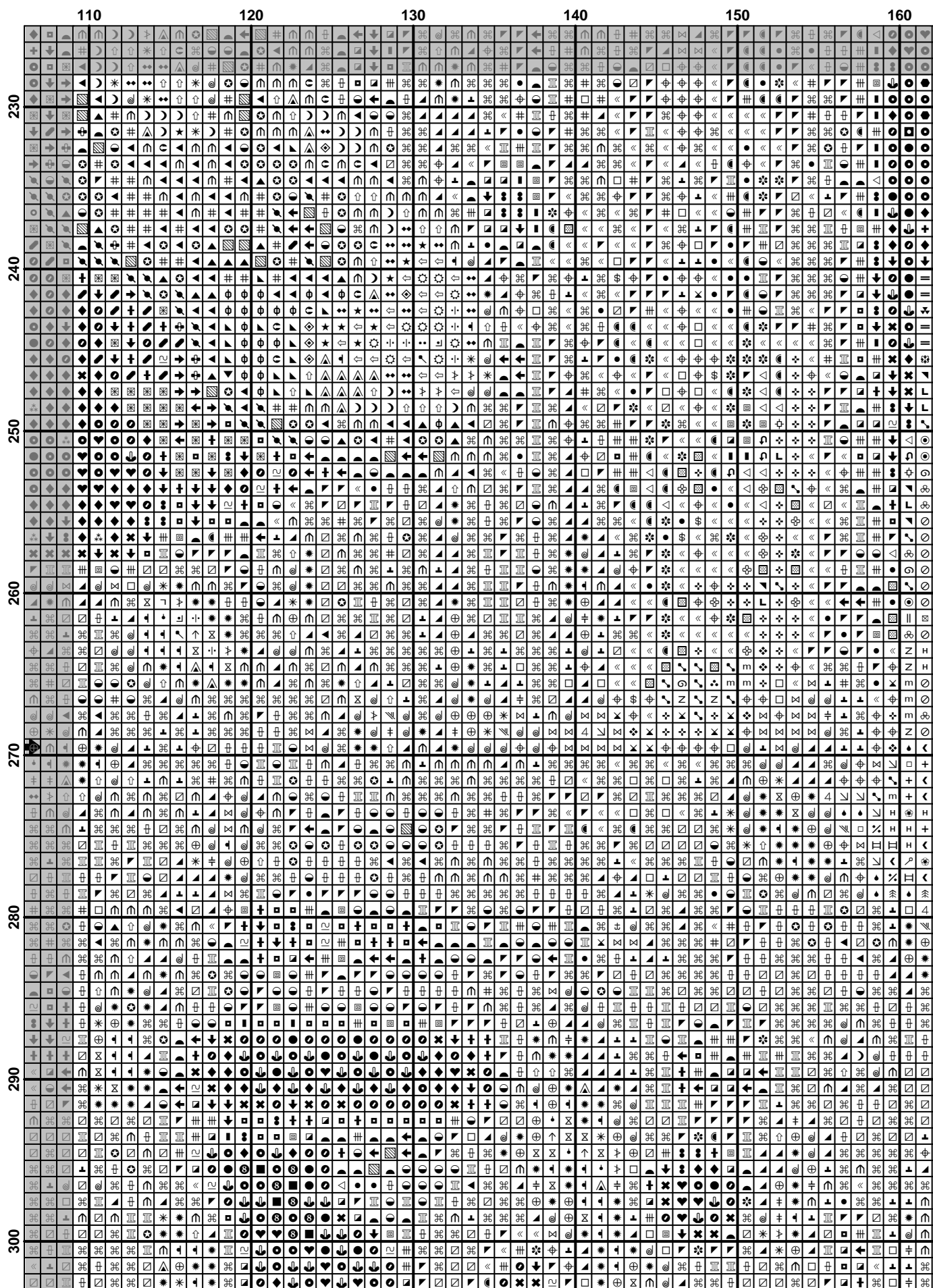






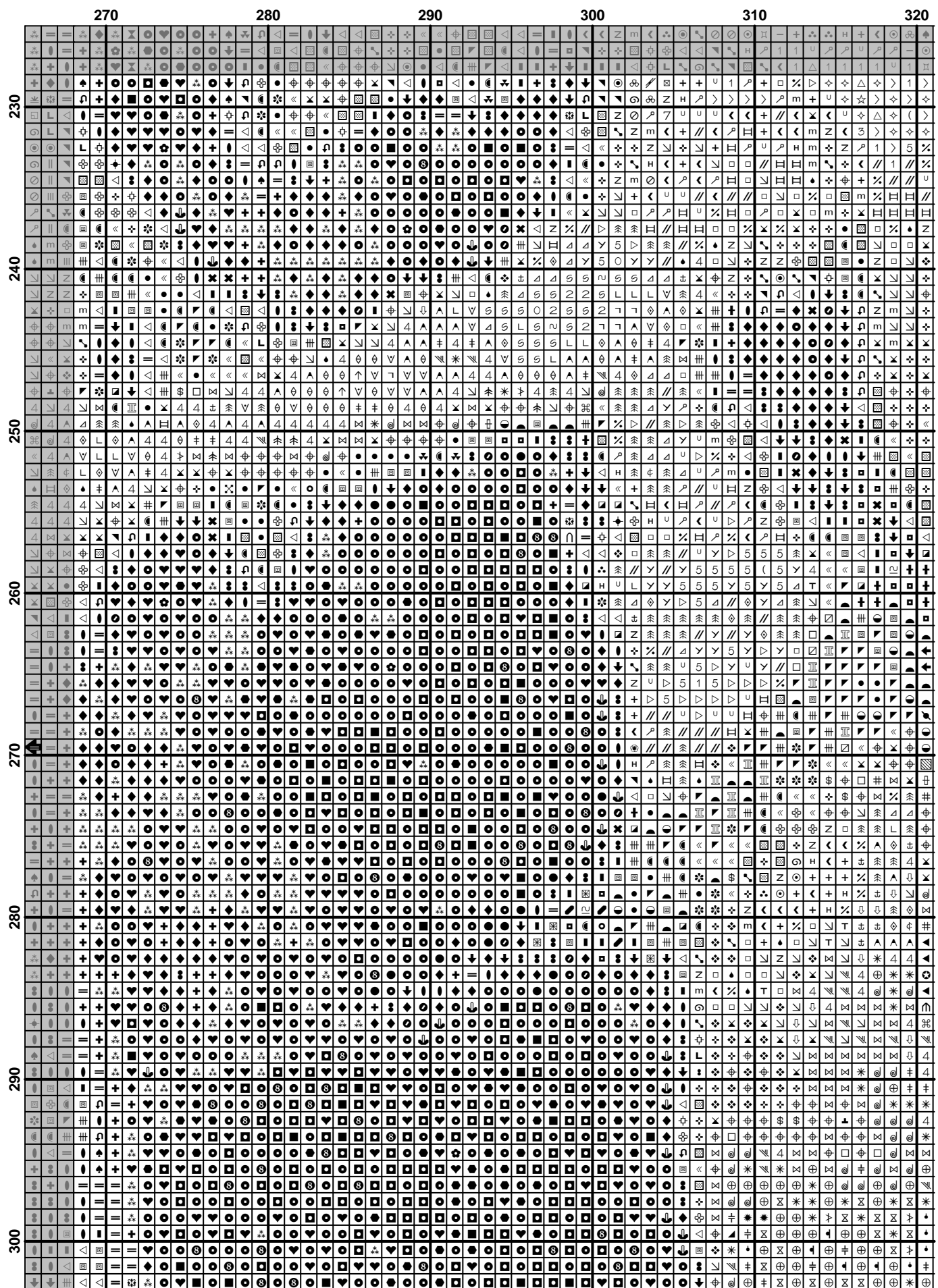


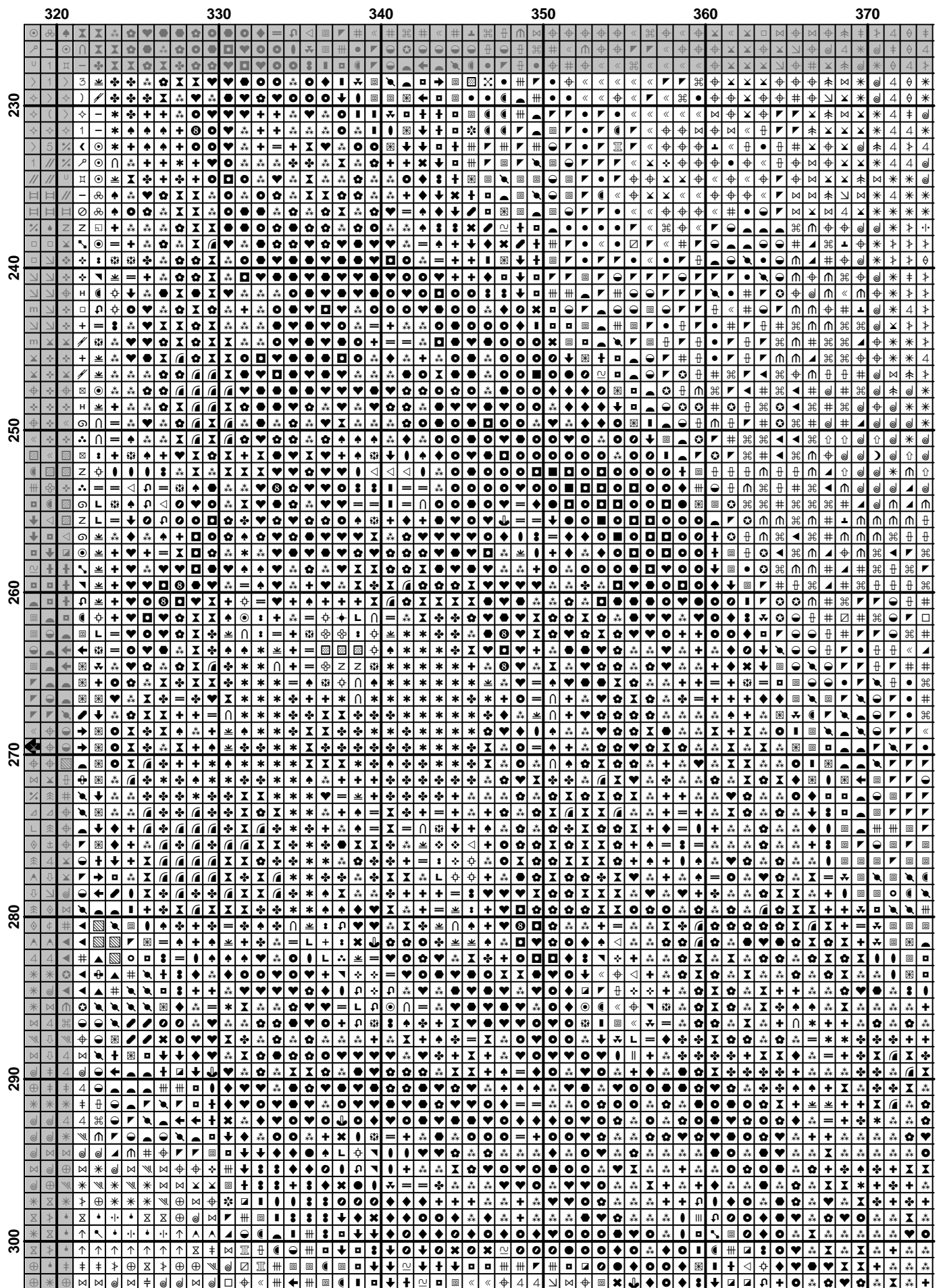


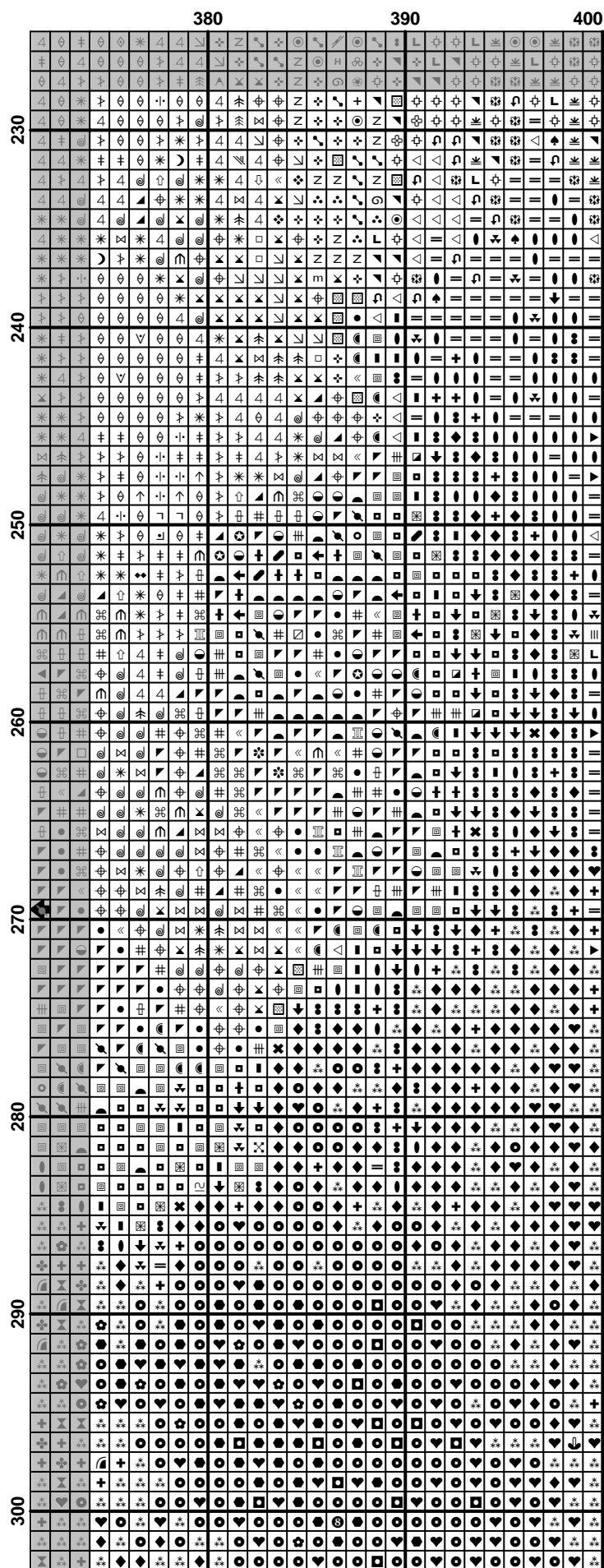


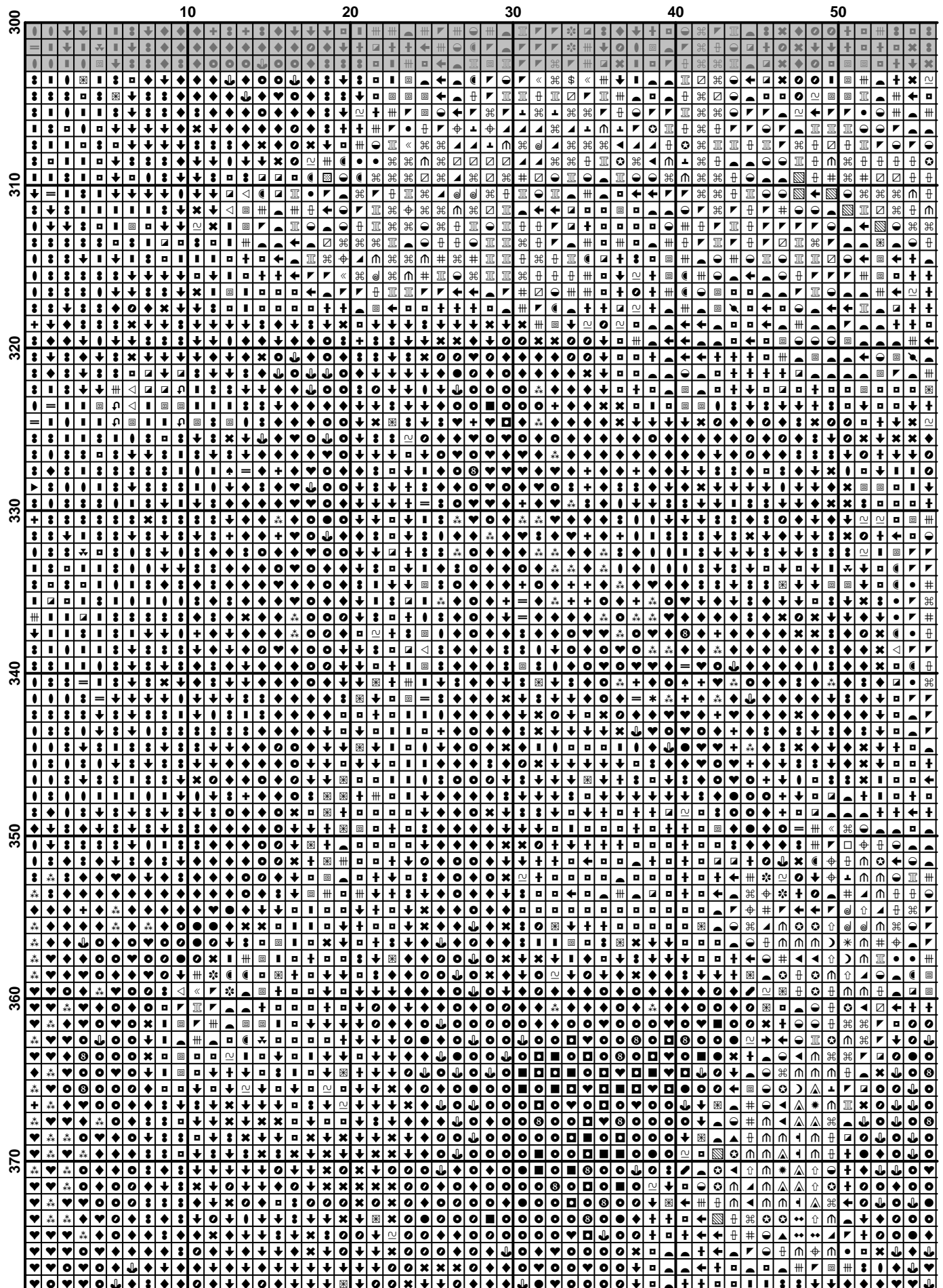
	160	170	180	190	200	210
230	♠	♠	♠	♠	♠	♠
240	♠	♠	♠	♠	♠	♠
250	♠	♠	♠	♠	♠	♠
260	♠	♠	♠	♠	♠	♠
270	♠	♠	♠	♠	♠	♠
280	♠	♠	♠	♠	♠	♠
290	♠	♠	♠	♠	♠	♠
300	♠	♠	♠	♠	♠	♠

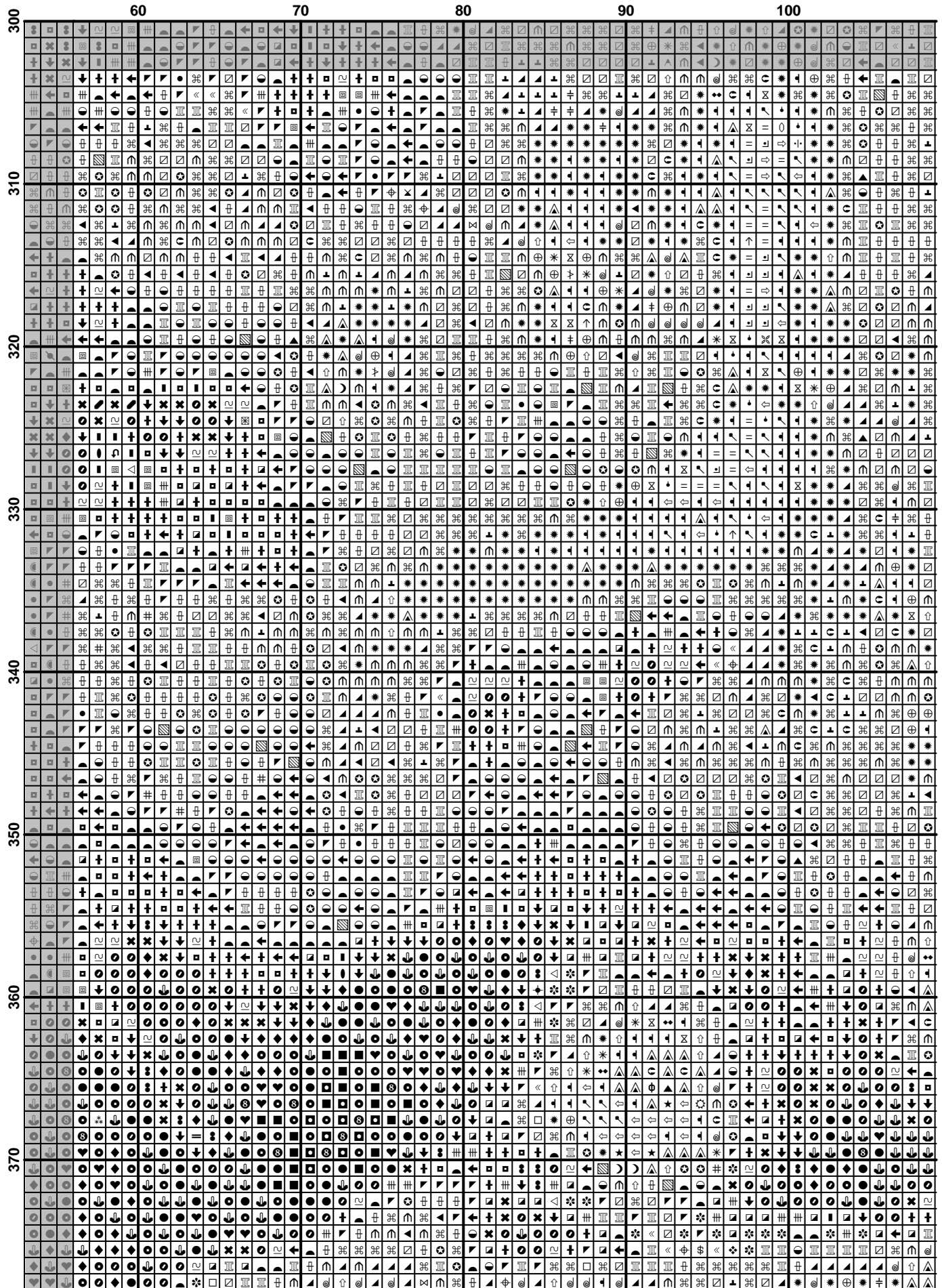
$$(37) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (38)$$







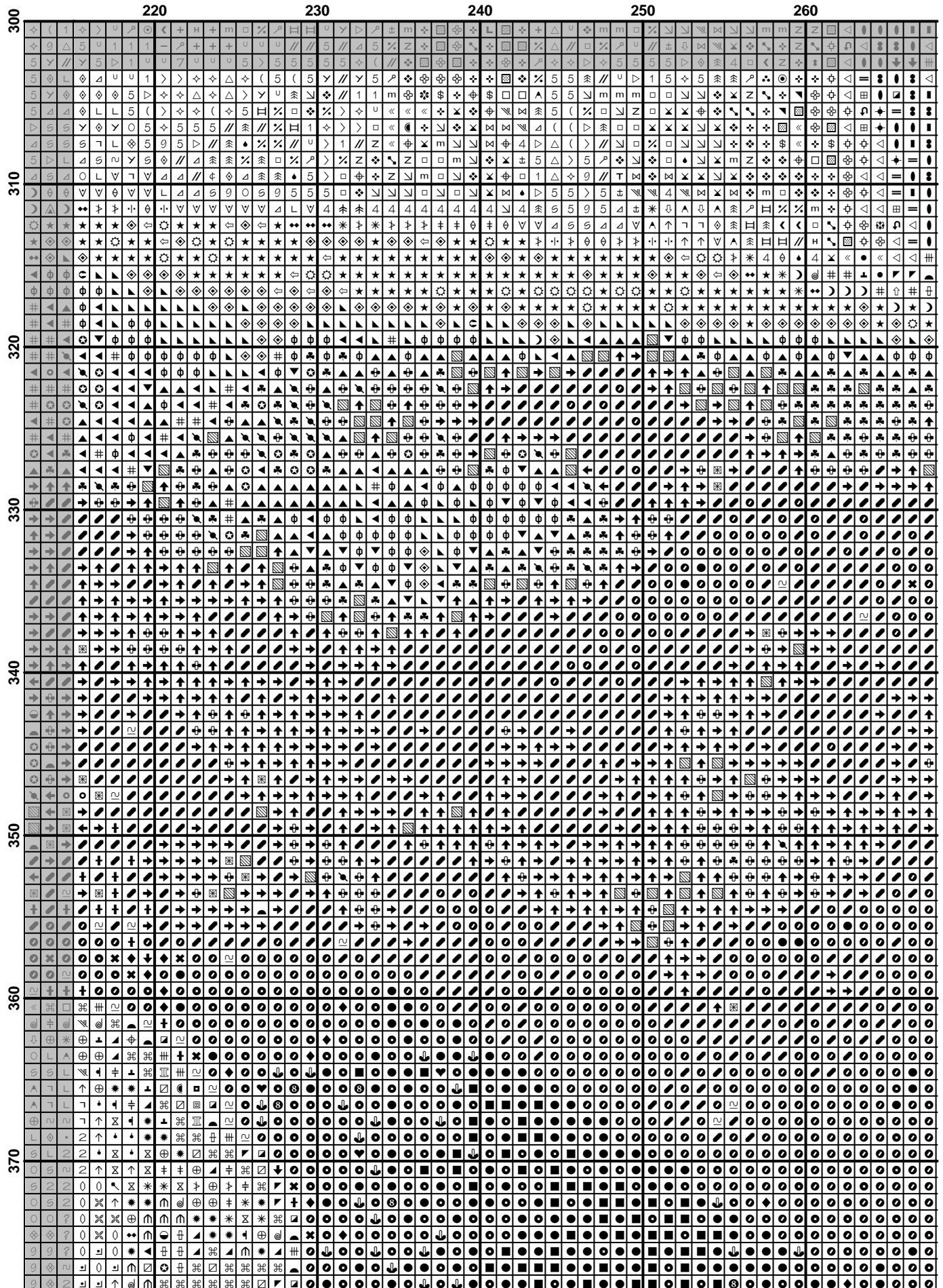


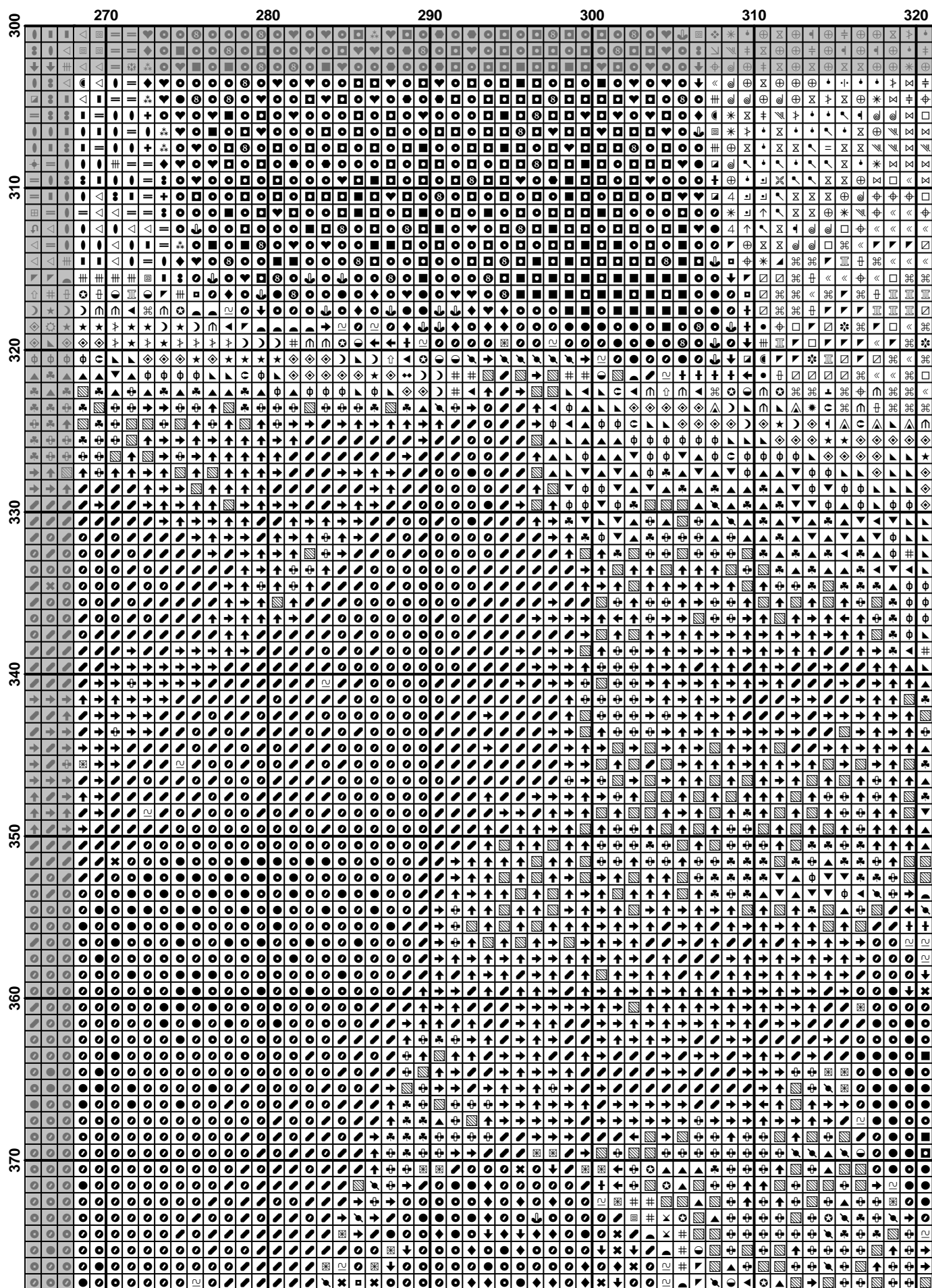


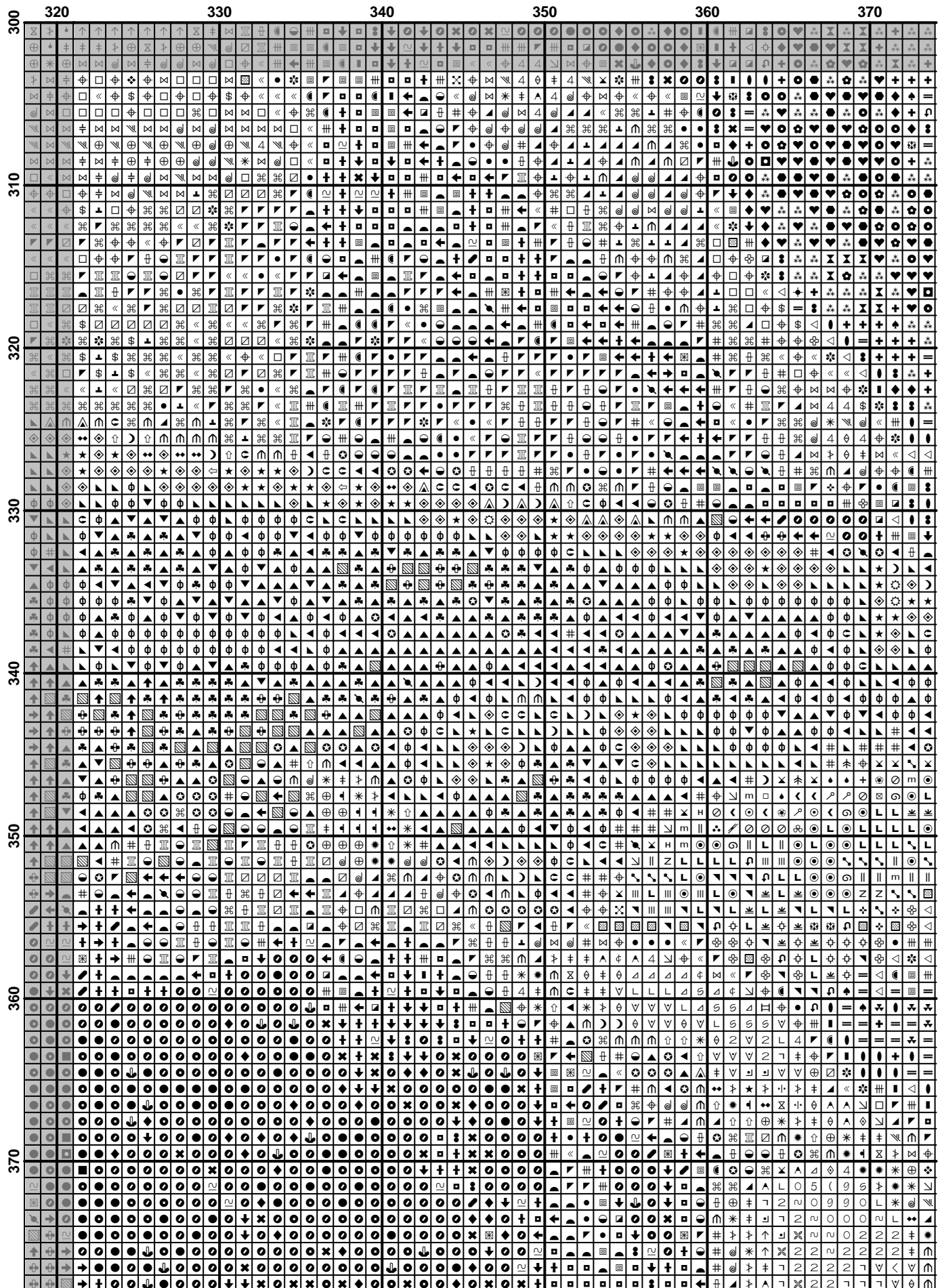


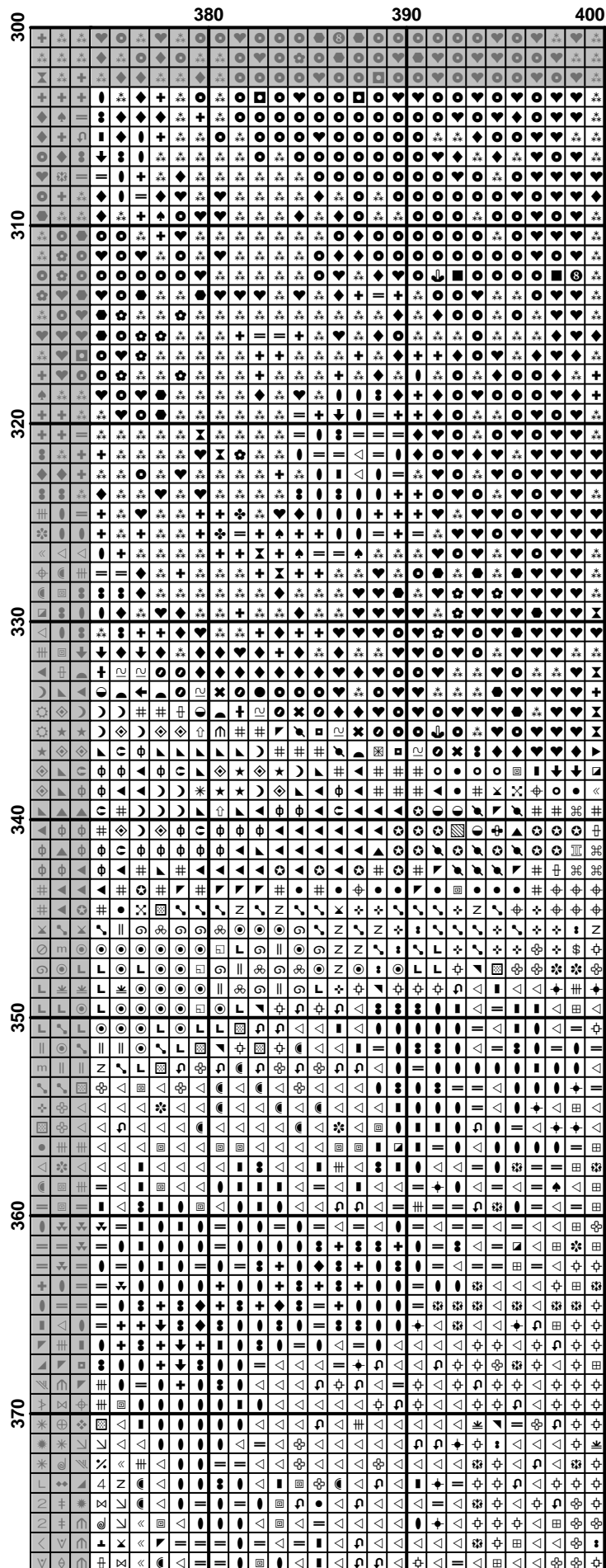


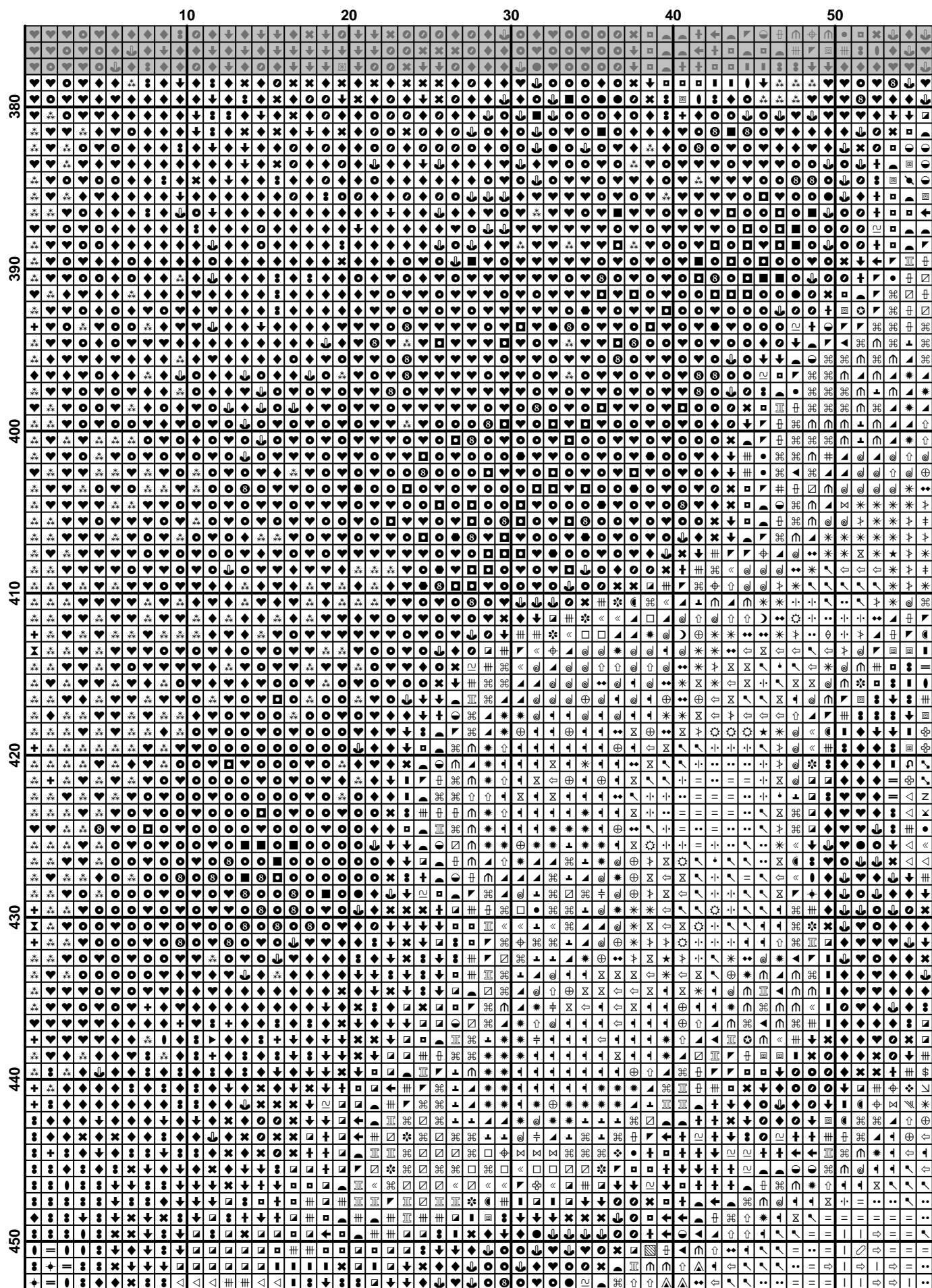
$$(44) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

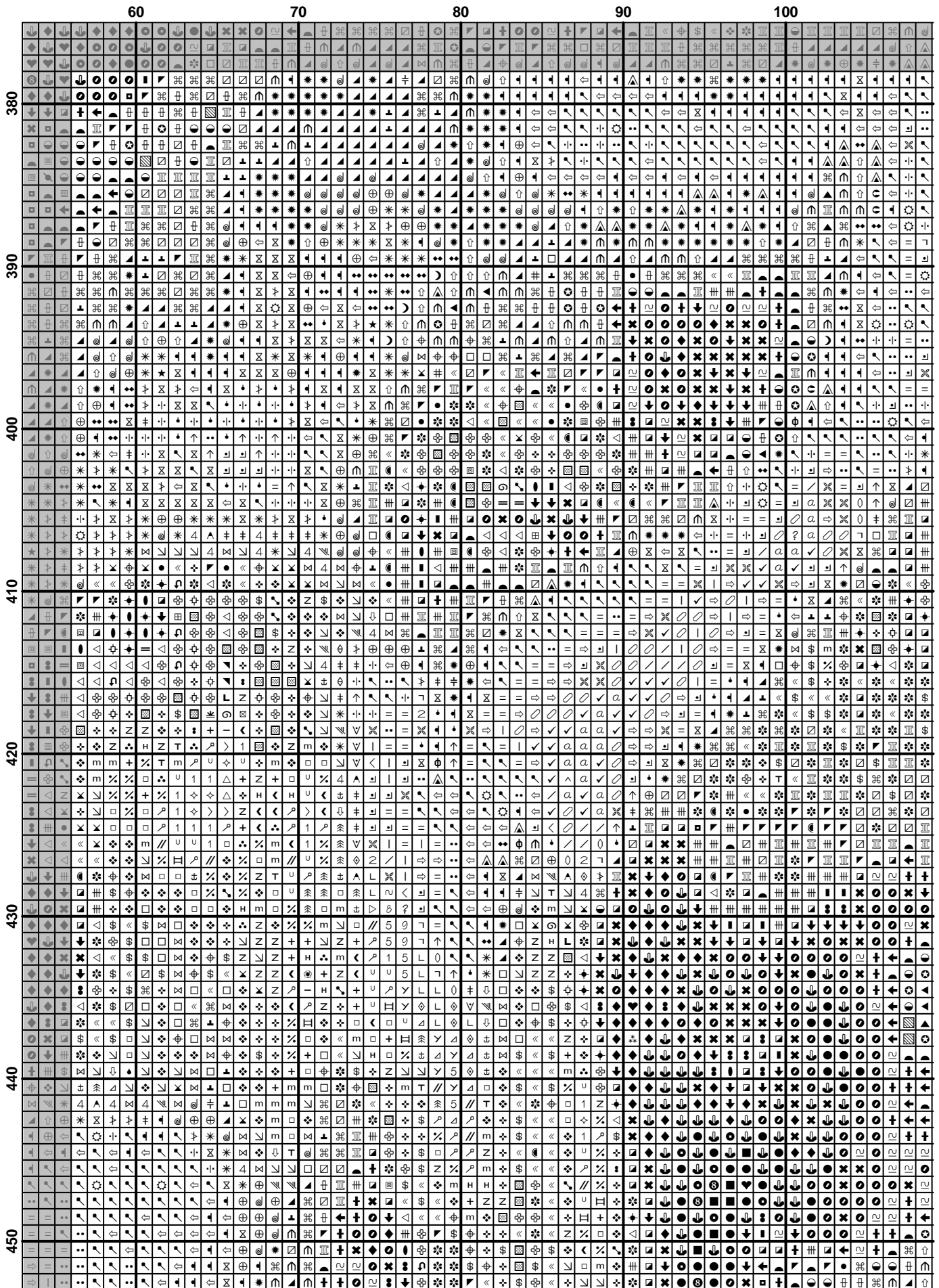




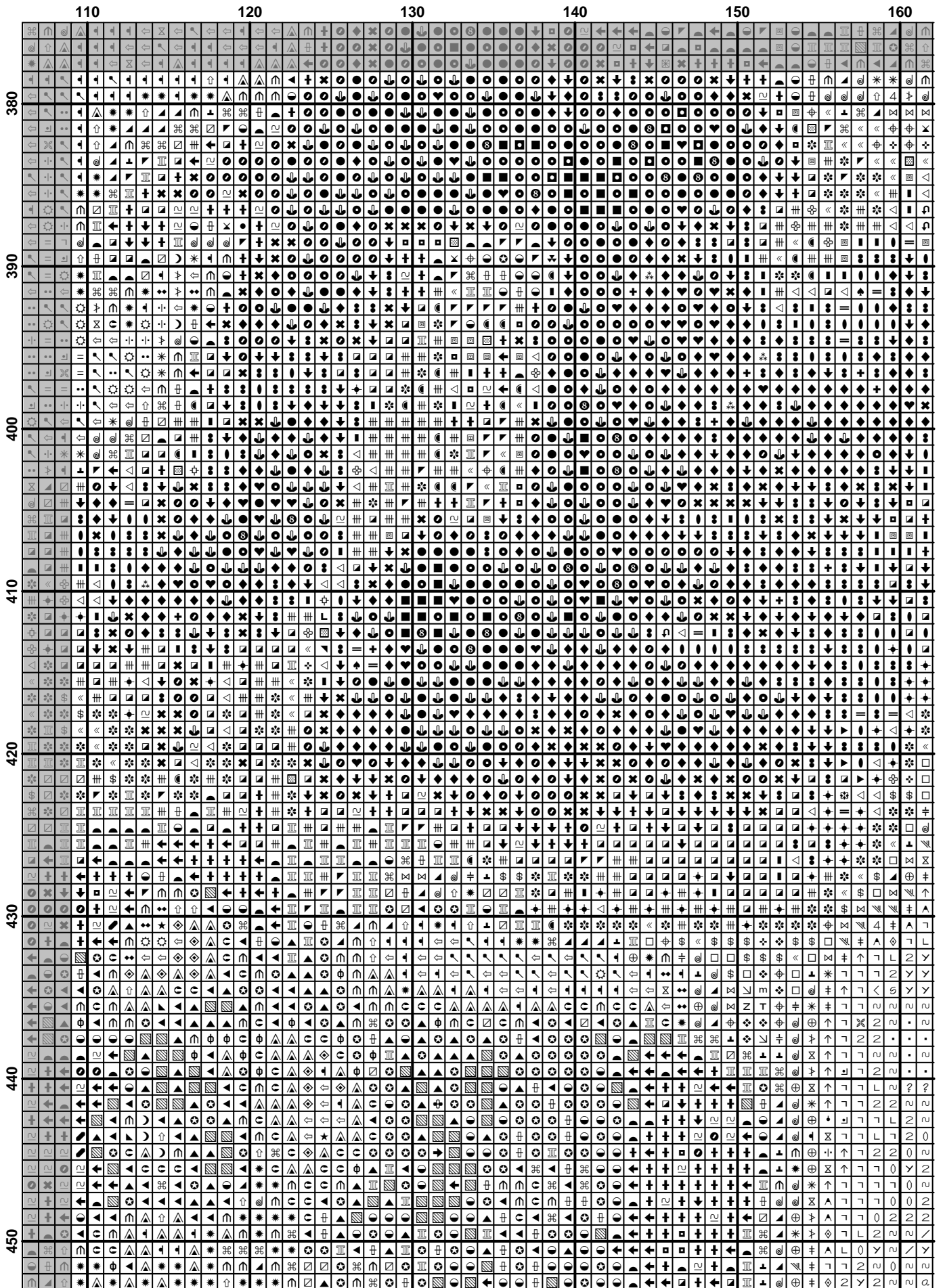








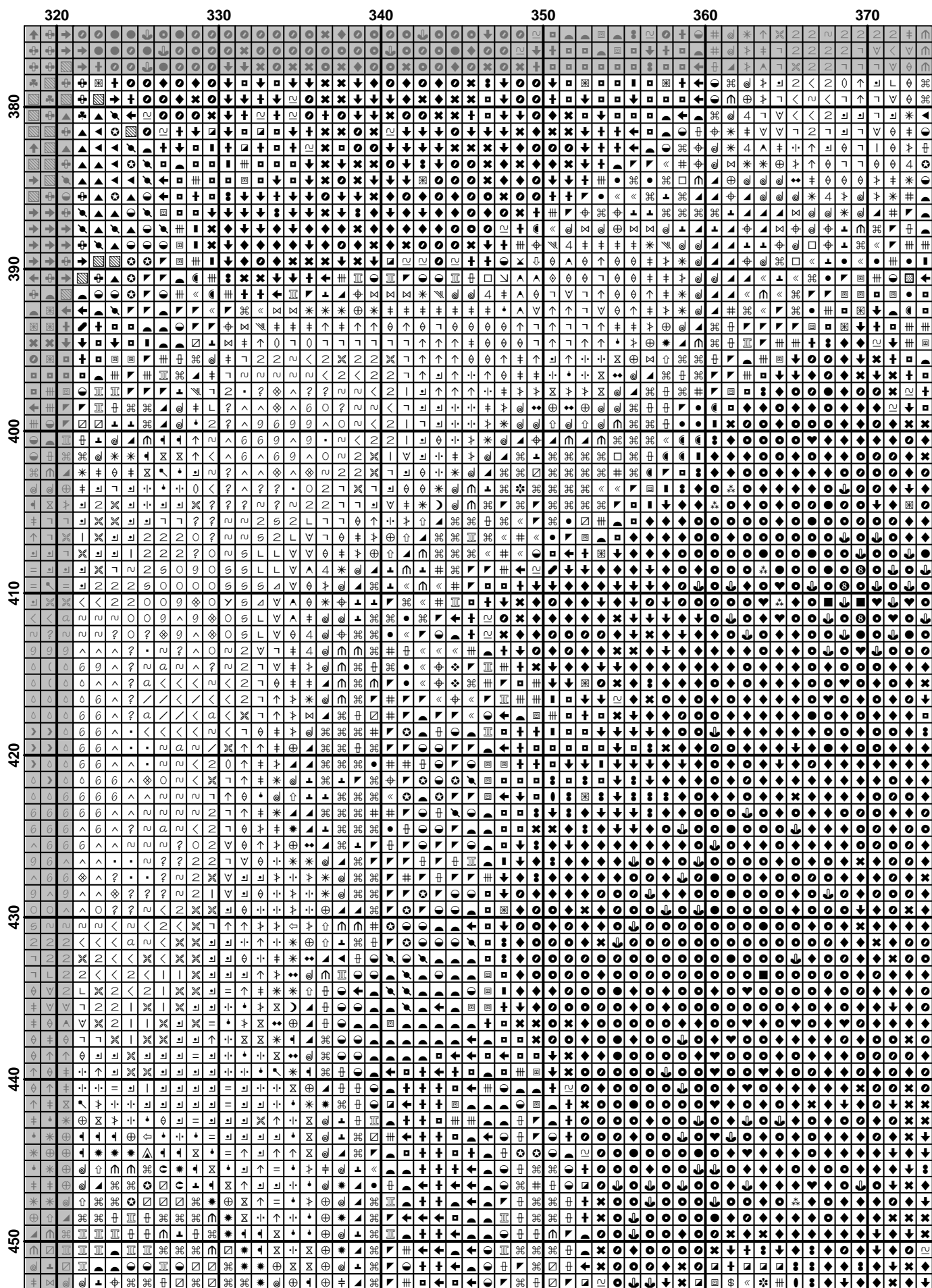


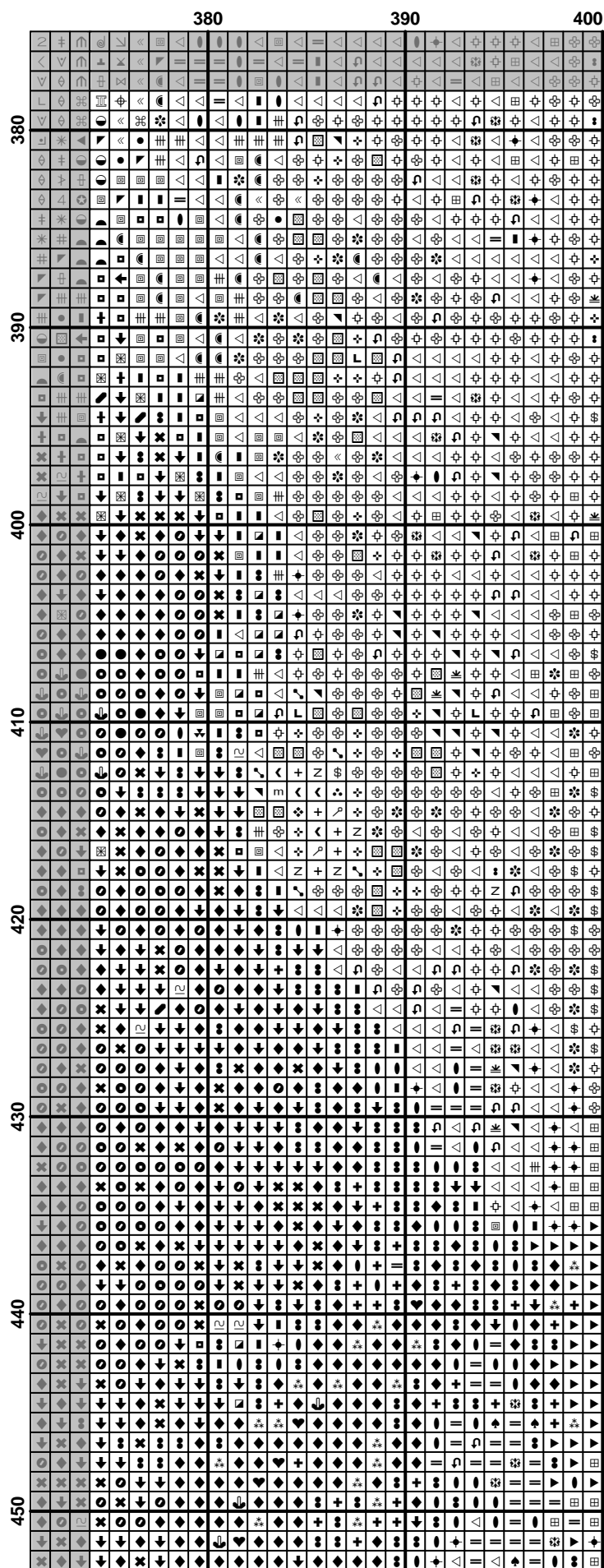


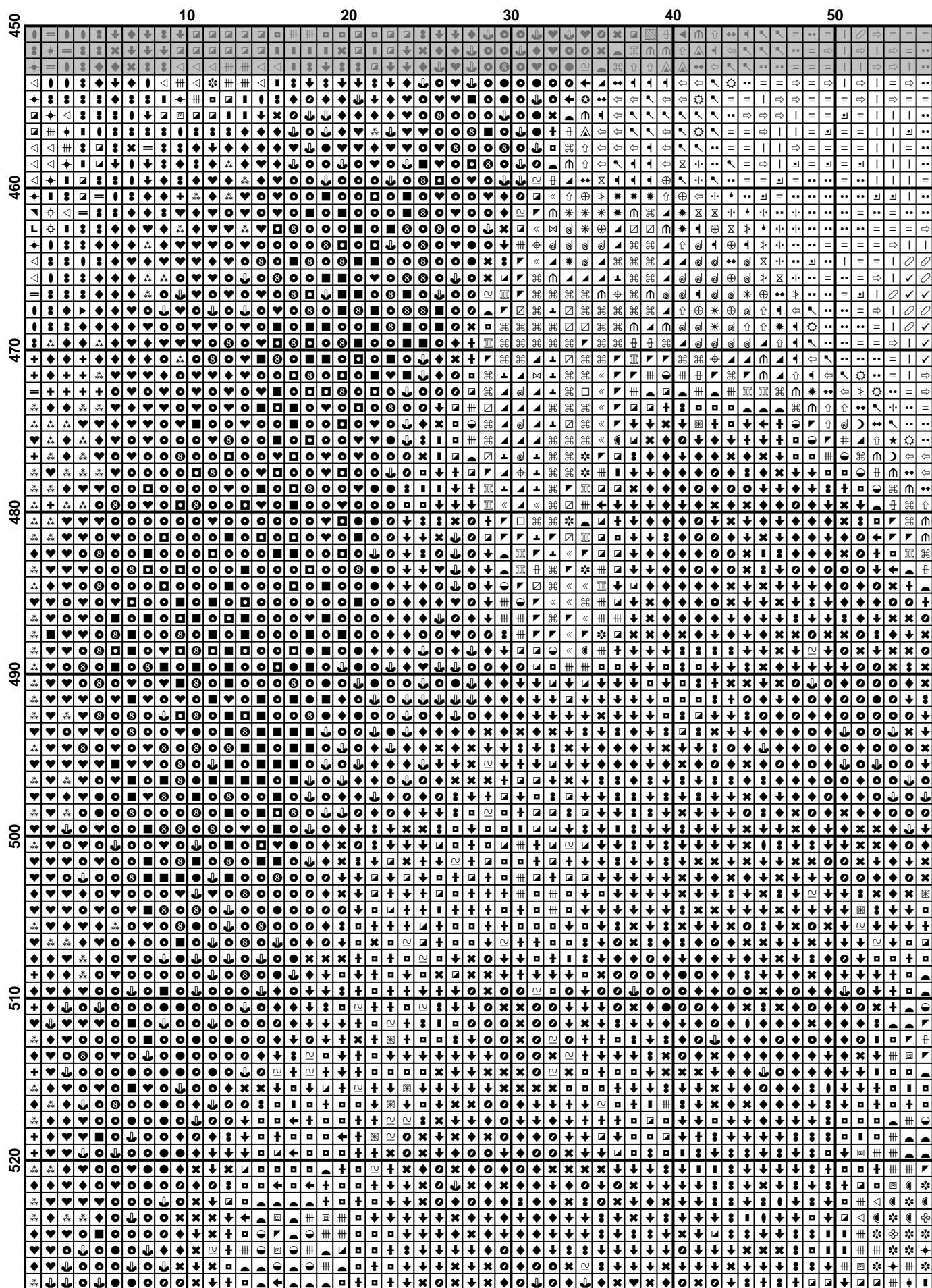
	160	170	180	190	200	210
380	...	...	...	...	...	...
390	...	...	...	...	...	...
400	...	...	...	...	...	...
410	...	...	...	...	...	...
420	...	...	...	...	...	...
430	...	...	...	...	...	...
440	...	...	...	...	...	...
450	...	...	...	...	...	...

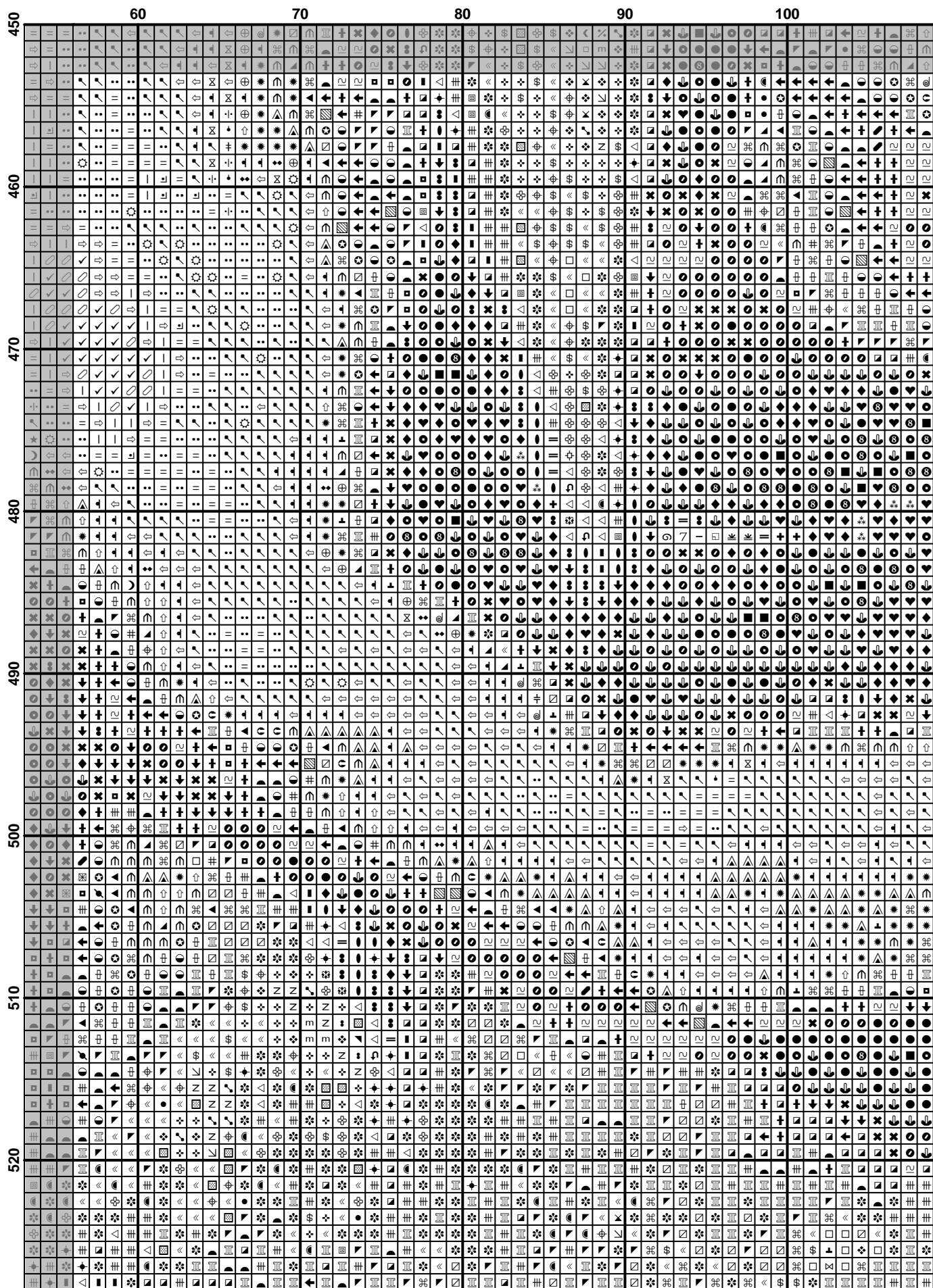
$$(53) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

$$(54) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$









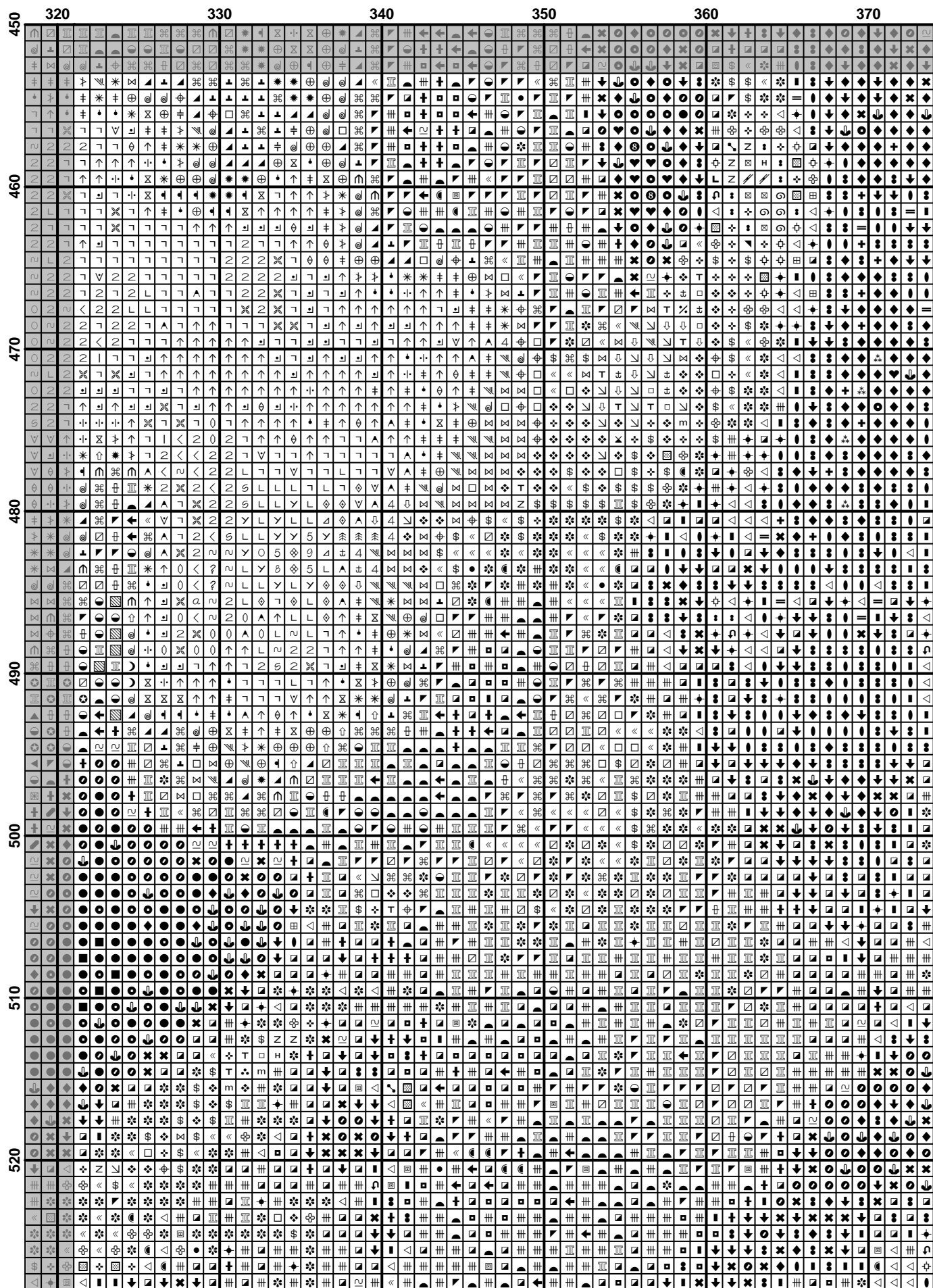


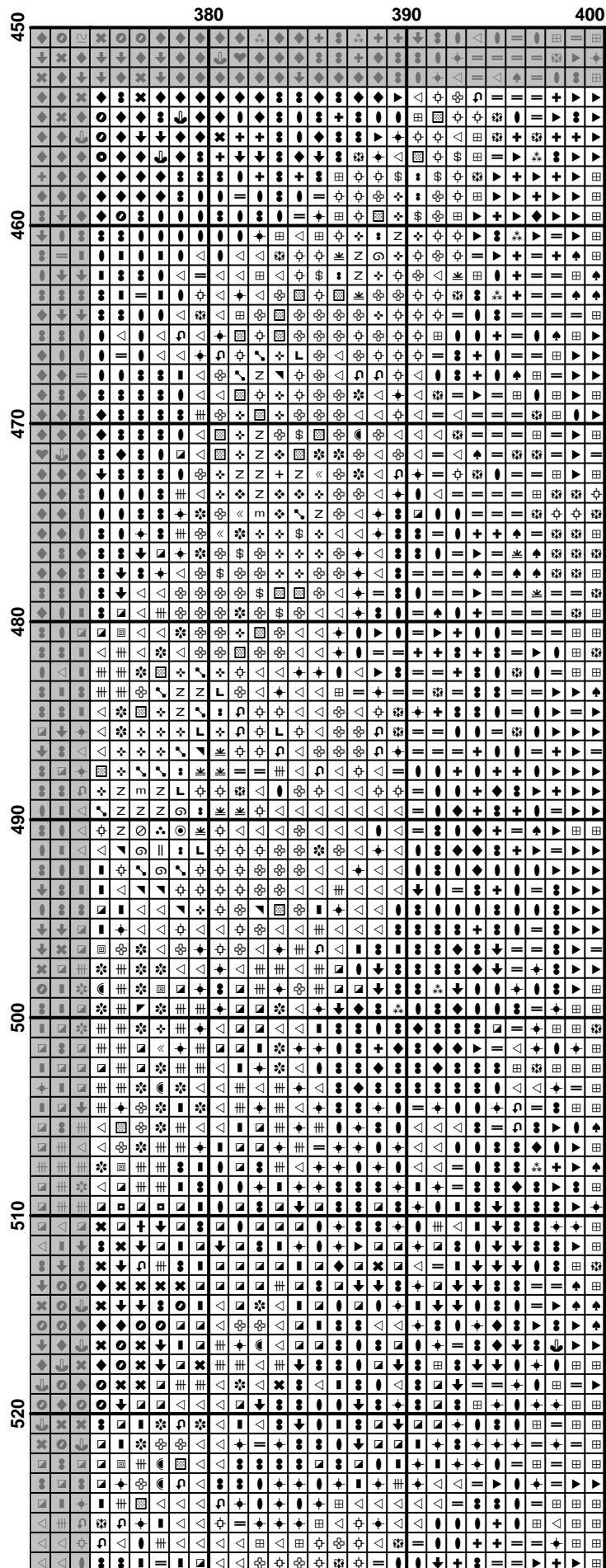
	110	120	130	140	150	160
450						
460						
470						
480						
490						
500						
510						
520						

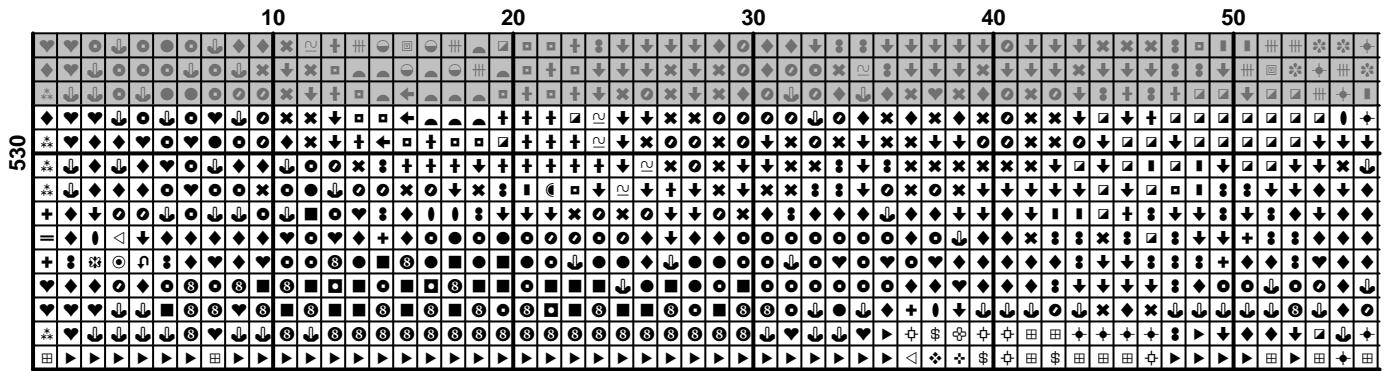
450	160	170	180	190	200	210
460	470	480	490	500	510	520

[illegible]

	270	280	290	300	310	320
450	⬆	⬆	⬆	⬆	⬆	⬆
460	⬆	⬆	⬆	⬆	⬆	⬆
470	⬆	⬆	⬆	⬆	⬆	⬆
480	⬆	⬆	⬆	⬆	⬆	⬆
490	⬆	⬆	⬆	⬆	⬆	⬆
500	⬆	⬆	⬆	⬆	⬆	⬆
510	⬆	⬆	⬆	⬆	⬆	⬆
520	⬆	⬆	⬆	⬆	⬆	⬆

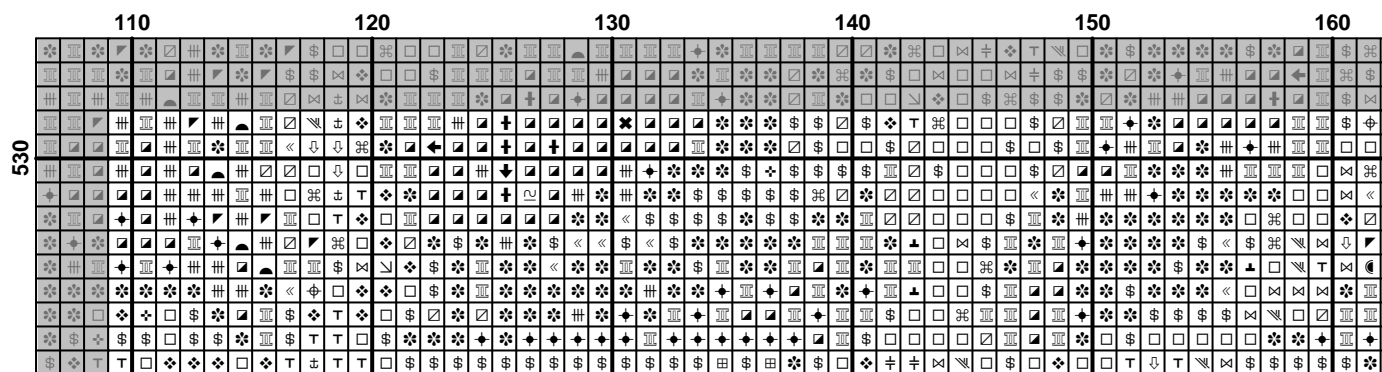


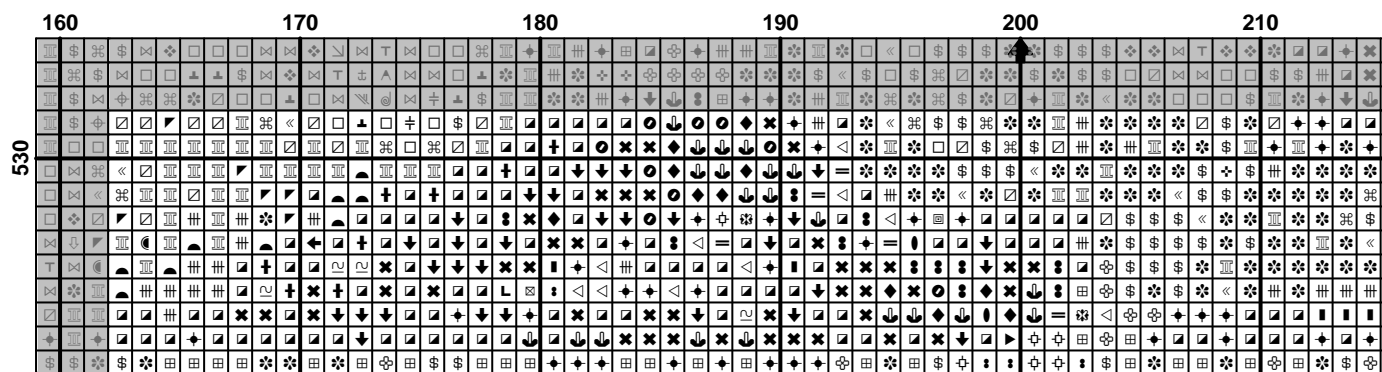




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	220										230										240										250										260																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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