

1309 Fruit and Flowers



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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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Fruit and Flowers

Stitch Count	
Horizontal:	700
Vertical:	516

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:	127	49.98	94	36.8	112	43.73	82	32.2	99	38.875	73	28.625
Including Margins:	143	56	110	43	128	50	98	39	115	45	89	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	51.52	148	58.31	109	42.93	74	29.15	54	21.46
Including Margins:	193	76	147	58	164	65	125	49	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	20.6	68	26.91	50	19.81	65	25.91	48	19.08
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	18.4	59	23.32	43	17.17	55	21.86	41	16.1
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
♣	221	Shell Pink-VY DK
✂	300	Mahogany-VY DK
✂	317	Pewter Gray
☾	347	Salmon-VY DK
⌘	350	Coral-MD
::	351	Coral
■	355	Terra Cotta-DK
▮	356	Terra Cotta-MD
⦿	371	Mustard
+	402	Mahogany-VY LT
✂	414	Steel Gray-DK
◀	420	Hazelnut Brown-DK
◊	436	Tan
:	437	Tan-LT
△	522	Fern Green
⦿	524	Fern Green-VY LT
◉	535	Ash Gray-VY LT
⊕	611	Drab Brown
≈	612	Drab Brown-LT
⌒	613	Drab Brown-VY LT
↘	645	Beaver Gray-VY DK
✓	647	Beaver Gray-MD
⌒	648	Beaver Gray-LT
..	680	Old Gold-DK
4	722	Orange Spice-LT
	725	Topaz
≈	726	Topaz-LT
*	730	Olive Green-VY DK
7	733	Olive Green-MD
◊	734	Olive Green-LT
♡	738	Tan-VY LT
∞	743	Yellow-MD
«	744	Yellow-Pale
1	745	Yellow-LT Pale
≡	783	Topaz-MD
↓	801	Coffee Brown-DK
◇	832	Golden Olive

■	839	Beige Brown-DK
▲	869	Hazelnut Brown-VY DK
⊙	920	Copper-MD
2	922	Copper-LT
⦿	930	Antique Blue-DK
■	934	Black Avocado Green
◉	935	Avocado Green-DK
⌘	937	Avocado Green-MD
■	938	Coffee Brown-UL DK
☉	975	Golden Brown-DK
○	976	Golden Brown-MD
c	977	Golden Brown-LT
//	3011	Khaki Green-DK
⌒	3012	Khaki Green-MD
3	3045	Yellow Beige-DK
>	3046	Yellow Beige-MD
≈	3052	Green Gray-MD
▲	3328	Salmon-DK
)	3341	Apricot
✂	3362	Pine Green-DK
✂	3721	Shell Pink-DK
⦿	3768	Gray Green-DK
⊕	3772	Desert Sand-VY DK
β	3782	Mocha Brown-LT
✂	3787	Brown Gray-DK
✂	3799	Pewter Gray-VY DK
⇒	3820	Straw-DK
u	3823	Yellow-UL Pale
z	3826	Golden Brown
◇	3827	Golden Brown-Pale
≡	3829	Old Gold-VY DK
★	3831	Raspberry-DK
⌒	3853	Autumn Gold-DK
∨	3854	Autumn Gold-MD
⌒	3856	Mahogany-UL VY LT
↑	3857	Rosewood-DK
■	3858	Rosewood-MD
H	3860	Cocoa
⦿	3861	Cocoa-LT

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
▼	300	Mahogany-VY DK	975	Golden Brown-DK
•	743	Yellow-MD	3854	Autumn Gold-MD
n	743	Yellow-MD	744	Yellow-Pale
^	744	Yellow-Pale	3827	Golden Brown-Pale
○	3820	Straw-DK	3854	Autumn Gold-MD
↘	920	Copper-MD	922	Copper-LT
↘	935	Avocado Green-DK	937	Avocado Green-MD
↘	3362	Pine Green-DK	3363	Pine Green-MD
H	414	Steel Gray-DK	927	Gray Green-LT

△	744	Yellow-Pale	3856	Mahogany-UL VY LT
(743	Yellow-MD	3827	Golden Brown-Pale
☯	300	Mahogany-VY DK	3857	Rosewood-DK
🌿	839	Beige Brown-DK	3857	Rosewood-DK
♦♦	3011	Khaki Green-DK	3362	Pine Green-DK
☼	300	Mahogany-VY DK	938	Coffee Brown-UL DK
α	436	Tan	734	Olive Green-LT
☯	221	Shell Pink-VY DK	355	Terra Cotta-DK
♣	900	Burnt Orange-DK	920	Copper-MD
⋈	221	Shell Pink-VY DK	3857	Rosewood-DK
▲	3857	Rosewood-DK	3858	Rosewood-MD
田	976	Golden Brown-MD	3826	Golden Brown
<	725	Topaz	3854	Autumn Gold-MD
#	350	Coral-MD	721	Orange Spice-MD
▷	725	Topaz	3820	Straw-DK
◇	732	Olive Green	832	Golden Olive
e	733	Olive Green-MD	734	Olive Green-LT
◆	801	Coffee Brown-DK	938	Coffee Brown-UL DK
▲	732	Olive Green	975	Golden Brown-DK
☆	976	Golden Brown-MD	977	Golden Brown-LT
\$	3826	Golden Brown	3829	Old Gold-VY DK
□	3046	Yellow Beige-MD	3856	Mahogany-UL VY LT
✓	927	Gray Green-LT	3041	Antique Violet-MD
●	934	Black Avocado Green	3799	Pewter Gray-VY DK
☼	317	Pewter Gray	926	Gray Green-MD
⌘	356	Terra Cotta-MD	3831	Raspberry-DK
†	3768	Gray Green-DK	3799	Pewter Gray-VY DK
●	934	Black Avocado Green	935	Avocado Green-DK
↓	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
φ	3021	Brown Gray-VY DK	3362	Pine Green-DK
▲	935	Avocado Green-DK	3362	Pine Green-DK
▲	3021	Brown Gray-VY DK	3363	Pine Green-MD
⌘	738	Tan-VY LT	3012	Khaki Green-MD
➔	934	Black Avocado Green	3768	Gray Green-DK
☼	937	Avocado Green-MD	801	Coffee Brown-DK
◀	535	Ash Gray-VY LT	3858	Rosewood-MD
⋈	611	Drab Brown	3346	Hunter Green
	371	Mustard	471	Avocado Green-VY LT
✦	3011	Khaki Green-DK	3052	Green Gray-MD
5	471	Avocado Green-VY LT	733	Olive Green-MD
/	371	Mustard	738	Tan-VY LT
∩	732	Olive Green	3012	Khaki Green-MD
×	732	Olive Green	471	Avocado Green-VY LT
-	722	Orange Spice-LT	350	Coral-MD
9	452	Shell Gray-MD	927	Gray Green-LT
9	3041	Antique Violet-MD	522	Fern Green
▼	317	Pewter Gray	535	Ash Gray-VY LT
♣	926	Gray Green-MD	3041	Antique Violet-MD
	356	Terra Cotta-MD	976	Golden Brown-MD
↔	402	Mahogany-VY LT	977	Golden Brown-LT
♣	347	Salmon-VY DK	922	Copper-LT
?	350	Coral-MD	3854	Autumn Gold-MD
♣	420	Hazelnut Brown-DK	3858	Rosewood-MD
⋈	920	Copper-MD	3826	Golden Brown
☼	347	Salmon-VY DK	3721	Shell Pink-DK
∩	355	Terra Cotta-DK	3858	Rosewood-MD
+	801	Coffee Brown-DK	869	Hazelnut Brown-VY DK
✦	869	Hazelnut Brown-VY DK	3011	Khaki Green-DK
◎	371	Mustard	420	Hazelnut Brown-DK

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◁	722	Orange Spice-LT	976	Golden Brown-MD
⌘	922	Copper-LT	3828	Hazelnut Brown
■	937	Avocado Green-MD	938	Coffee Brown-UL DK
♥	938	Coffee Brown-UL DK	3021	Brown Gray-VY DK
▤	3012	Khaki Green-MD	3052	Green Gray-MD
Ⓢ	935	Avocado Green-DK	938	Coffee Brown-UL DK
◇	734	Olive Green-LT	783	Topaz-MD
m	3045	Yellow Beige-DK	680	Old Gold-DK
×	922	Copper-LT	3721	Shell Pink-DK
✱	349	Coral-DK	920	Copper-MD
▣	3721	Shell Pink-DK	976	Golden Brown-MD
✦	3721	Shell Pink-DK	3831	Raspberry-DK
●	3721	Shell Pink-DK	355	Terra Cotta-DK
⊠	734	Olive Green-LT	680	Old Gold-DK
‡	420	Hazelnut Brown-DK	680	Old Gold-DK
›	732	Olive Green	3826	Golden Brown
⊗	300	Mahogany-VY DK	937	Avocado Green-MD
⦿	420	Hazelnut Brown-DK	732	Olive Green
▣	420	Hazelnut Brown-DK	611	Drab Brown
←	221	Shell Pink-VY DK	300	Mahogany-VY DK
⬆	420	Hazelnut Brown-DK	730	Olive Green-VY DK
➤	937	Avocado Green-MD	3011	Khaki Green-DK
▶	801	Coffee Brown-DK	3011	Khaki Green-DK
♠	3011	Khaki Green-DK	3021	Brown Gray-VY DK
⌠	3346	Hunter Green	730	Olive Green-VY DK
=	920	Copper-MD	975	Golden Brown-DK
5	3852	Straw-VY DK	741	Tangerine-MD
L	732	Olive Green	920	Copper-MD
⊙	3801	Christmas Red-LT	3831	Raspberry-DK
▤	355	Terra Cotta-DK	3685	Mauve-DK
✱	732	Olive Green	3346	Hunter Green
▣	3782	Mocha Brown-LT	3861	Cocoa-LT
◦	744	Yellow-Pale	3341	Apricot
⦿	977	Golden Brown-LT	3827	Golden Brown-Pale
✓	351	Coral	3328	Salmon-DK
⊕	611	Drab Brown	3011	Khaki Green-DK
⊗	347	Salmon-VY DK	3801	Christmas Red-LT
T	3328	Salmon-DK	3801	Christmas Red-LT
♠	471	Avocado Green-VY LT	832	Golden Olive
✂	920	Copper-MD	976	Golden Brown-MD
↑	922	Copper-LT	976	Golden Brown-MD
⊕	721	Orange Spice-MD	920	Copper-MD
∇	721	Orange Spice-MD	976	Golden Brown-MD
△	722	Orange Spice-LT	3820	Straw-DK
=	725	Topaz	741	Tangerine-MD
⬠	732	Olive Green	869	Hazelnut Brown-VY DK
✱	3021	Brown Gray-VY DK	937	Avocado Green-MD
‡	371	Mustard	3012	Khaki Green-MD
✱	3021	Brown Gray-VY DK	935	Avocado Green-DK
↑	725	Topaz	743	Yellow-MD
⌘	356	Terra Cotta-MD	420	Hazelnut Brown-DK
6	977	Golden Brown-LT	3820	Straw-DK
⊙	921	Copper	975	Golden Brown-DK
Ⓢ	3860	Cocoa	3861	Cocoa-LT
⌠	730	Olive Green-VY DK	937	Avocado Green-MD
♣	801	Coffee Brown-DK	3021	Brown Gray-VY 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	
221	Shell Pink-VY DK	626	246	596	234	536	211
300	Mahogany-VY DK	3486	1372	3320	1307	2988	1176
317	Pewter Gray	83	32	79	31	71	27
347	Salmon-VY DK	506	199	482	189	434	170
349	Coral-DK	31	12	30	11	27	10
350	Coral-MD	121	47	116	45	104	40
351	Coral	60	23	57	22	51	20
355	Terra Cotta-DK	987	388	940	370	846	333
356	Terra Cotta-MD	346	136	329	129	296	116
371	Mustard	1588	625	1512	595	1361	535
402	Mahogany-VY LT	128	50	122	48	110	43
414	Steel Gray-DK	89	35	85	33	77	30
420	Hazelnut Brown-DK	1452	571	1383	544	1244	489
436	Tan	265	104	252	99	227	89
437	Tan-LT	147	57	140	55	126	49
452	Shell Gray-MD	39	15	37	14	34	13
471	Avocado Green-VY LT	614	241	585	230	527	207
522	Fern Green	165	64	157	61	141	55
524	Fern Green-VY LT	39	15	37	14	33	12
535	Ash Gray-VY LT	300	118	285	112	257	101
611	Drab Brown	1182	465	1126	443	1013	398
612	Drab Brown-LT	167	65	159	62	143	56
613	Drab Brown-VY LT	55	21	52	20	47	18
645	Beaver Gray-VY DK	164	64	156	61	141	55
647	Beaver Gray-MD	94	37	90	35	81	31
648	Beaver Gray-LT	48	18	46	18	41	16
680	Old Gold-DK	781	307	744	292	670	263
721	Orange Spice-MD	152	59	145	57	131	51
722	Orange Spice-LT	353	138	336	132	302	118
725	Topaz	424	166	404	159	364	143
726	Topaz-LT	34	13	33	12	29	11
730	Olive Green-VY DK	1115	438	1062	418	956	376
732	Olive Green	2118	833	2017	794	1815	714
733	Olive Green-MD	184	72	175	68	158	62
734	Olive Green-LT	405	159	386	151	347	136
738	Tan-VY LT	194	76	185	72	166	65
741	Tangerine-MD	155	61	148	58	133	52
743	Yellow-MD	610	240	581	228	523	205
744	Yellow-Pale	748	294	712	280	641	252
745	Yellow-LT Pale	160	62	153	60	137	53
783	Topaz-MD	269	105	256	100	231	90
801	Coffee Brown-DK	3710	1460	3533	1390	3180	1251
832	Golden Olive	345	135	328	129	295	116
839	Beige Brown-DK	357	140	340	133	306	120
869	Hazelnut Brown-VY DK	1049	412	999	393	899	353
900	Burnt Orange-DK	41	16	39	15	35	13
920	Copper-MD	860	338	819	322	737	290
921	Copper	92	36	88	34	79	31
922	Copper-LT	489	192	466	183	419	164
926	Gray Green-MD	55	21	52	20	47	18
927	Gray Green-LT	113	44	108	42	97	38
930	Antique Blue-DK	24	9	23	9	21	8
934	Black Avocado Green	27159	10692	25865	10183	23279	9164

935	Avocado Green-DK	5962	2347	5678	2235	5110	2011
937	Avocado Green-MD	4499	1771	4285	1687	3856	1518
938	Coffee Brown-UL DK	12228	4814	11645	4584	10481	4126
975	Golden Brown-DK	1351	531	1287	506	1158	455
976	Golden Brown-MD	706	277	673	264	605	238
977	Golden Brown-LT	506	199	481	189	433	170
3011	Khaki Green-DK	2583	1016	2460	968	2214	871
3012	Khaki Green-MD	3142	1237	2993	1178	2693	1060
3021	Brown Gray-VY DK	3481	1370	3315	1305	2984	1174
3041	Antique Violet-MD	121	47	116	45	104	40
3045	Yellow Beige-DK	346	136	330	129	297	116
3046	Yellow Beige-MD	117	46	112	44	100	39
3052	Green Gray-MD	473	186	451	177	405	159
3328	Salmon-DK	94	37	89	35	80	31
3341	Apricot	93	36	88	34	79	31
3346	Hunter Green	523	205	498	196	448	176
3362	Pine Green-DK	1299	511	1237	487	1113	438
3363	Pine Green-MD	176	69	167	65	151	59
3685	Mauve-DK	158	62	151	59	136	53
3721	Shell Pink-DK	790	311	752	296	677	266
3768	Gray Green-DK	291	114	277	109	250	98
3772	Desert Sand-VY DK	114	44	109	42	98	38
3782	Mocha Brown-LT	87	34	83	32	75	29
3787	Brown Gray-DK	248	97	236	92	213	83
3799	Pewter Gray-VY DK	2623	1032	2498	983	2248	885
3801	Christmas Red-LT	133	52	127	50	114	44
3820	Straw-DK	444	174	423	166	380	149
3823	Yellow-UL Pale	40	15	38	14	34	13
3826	Golden Brown	630	248	600	236	540	212
3827	Golden Brown-Pale	355	139	338	133	304	119
3828	Hazelnut Brown	112	44	107	42	96	37
3829	Old Gold-VY DK	285	112	272	107	245	96
3831	Raspberry-DK	439	172	418	164	376	148
3852	Straw-VY DK	39	15	37	14	33	12
3853	Autumn Gold-DK	206	81	196	77	177	69
3854	Autumn Gold-MD	570	224	543	213	489	192
3856	Mahogany-UL VY LT	97	38	93	36	83	32
3857	Rosewood-DK	823	324	784	308	705	277
3858	Rosewood-MD	652	256	621	244	559	220
3860	Cocoa	152	59	144	56	130	51
3861	Cocoa-LT	121	47	115	45	104	40

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	965	380	804	317	402	158
300	Mahogany-VY DK	5378	2117	4482	1764	2241	882
317	Pewter Gray	128	49	107	41	53	20
347	Salmon-VY DK	781	306	651	255	326	128
349	Coral-DK	49	18	41	15	20	8
350	Coral-MD	187	72	156	60	78	30
351	Coral	92	36	77	30	38	15
355	Terra Cotta-DK	1523	599	1269	500	635	250
356	Terra Cotta-MD	533	209	444	174	222	87
371	Mustard	2450	963	2042	803	1021	401
402	Mahogany-VY LT	198	77	165	65	83	32

414	Steel Gray-DK	139	54	116	45	58	23
420	Hazelnut Brown-DK	2239	880	1866	734	933	367
436	Tan	409	160	341	134	170	67
437	Tan-LT	227	88	189	74	95	37
452	Shell Gray-MD	61	23	51	20	26	10
471	Avocado Green-VY LT	949	373	791	311	395	155
522	Fern Green	254	99	212	83	106	41
524	Fern Green-VY LT	59	22	50	18	25	9
535	Ash Gray-VY LT	463	182	386	152	193	76
611	Drab Brown	1823	716	1520	597	760	299
612	Drab Brown-LT	257	101	215	84	107	42
613	Drab Brown-VY LT	85	32	71	27	35	14
645	Beaver Gray-VY DK	254	99	212	83	106	41
647	Beaver Gray-MD	146	56	122	47	61	23
648	Beaver Gray-LT	74	29	62	24	31	12
680	Old Gold-DK	1206	473	1005	395	503	197
721	Orange Spice-MD	236	92	197	77	98	38
722	Orange Spice-LT	544	212	453	177	227	89
725	Topaz	655	257	546	215	273	107
726	Topaz-LT	52	20	44	17	22	8
730	Olive Green-VY DK	1721	677	1434	564	717	282
732	Olive Green	3267	1285	2723	1071	1361	536
733	Olive Green-MD	284	112	237	93	119	47
734	Olive Green-LT	625	245	521	204	260	102
738	Tan-VY LT	299	117	249	98	125	49
741	Tangerine-MD	239	94	200	78	100	39
743	Yellow-MD	941	369	785	308	392	154
744	Yellow-Pale	1154	454	962	378	481	189
745	Yellow-LT Pale	247	95	206	80	103	40
783	Topaz-MD	416	162	347	135	173	68
801	Coffee Brown-DK	5724	2252	4770	1877	2385	938
832	Golden Olive	531	209	443	174	221	87
839	Beige Brown-DK	551	216	459	180	230	90
869	Hazelnut Brown-VY DK	1618	635	1349	530	674	265
900	Burnt Orange-DK	63	23	53	20	26	10
920	Copper-MD	1327	522	1106	435	553	218
921	Copper	142	56	119	47	59	23
922	Copper-LT	754	295	629	246	314	123
926	Gray Green-MD	85	32	71	27	35	14
927	Gray Green-LT	175	68	146	57	73	29
930	Antique Blue-DK	38	14	32	12	16	6
934	Black Avocado Green	41902	16495	34919	13746	17459	6873
935	Avocado Green-DK	9198	3620	7665	3017	3833	1508
937	Avocado Green-MD	6941	2732	5784	2277	2892	1139
938	Coffee Brown-UL DK	18866	7427	15722	6189	7861	3095
975	Golden Brown-DK	2084	819	1737	683	869	341
976	Golden Brown-MD	1089	428	908	357	454	179
977	Golden Brown-LT	779	306	650	255	325	128
3011	Khaki Green-DK	3985	1568	3321	1307	1661	653
3012	Khaki Green-MD	4847	1908	4040	1590	2020	795
3021	Brown Gray-VY DK	5371	2113	4476	1761	2238	881
3041	Antique Violet-MD	187	72	156	60	78	30
3045	Yellow Beige-DK	535	209	446	174	223	87
3046	Yellow Beige-MD	180	70	150	59	75	29
3052	Green Gray-MD	729	286	608	239	304	119
3328	Salmon-DK	144	56	120	47	60	23
3341	Apricot	142	56	119	47	59	23
3346	Hunter Green	806	317	672	264	336	132
3362	Pine Green-DK	2003	788	1670	657	835	329

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3363	Pine Green-MD	272	106	227	89	113	44
3685	Mauve-DK	245	95	204	80	102	40
3721	Shell Pink-DK	1219	479	1016	399	508	200
3768	Gray Green-DK	450	176	375	147	188	74
3772	Desert Sand-VY DK	176	68	147	57	74	29
3782	Mocha Brown-LT	135	52	113	44	56	22
3787	Brown Gray-DK	383	149	320	125	160	62
3799	Pewter Gray-VY DK	4046	1593	3372	1328	1686	664
3801	Christmas Red-LT	205	79	171	66	86	33
3820	Straw-DK	684	268	570	224	285	112
3823	Yellow-UL Pale	61	23	51	20	26	10
3826	Golden Brown	972	382	810	318	405	159
3827	Golden Brown-Pale	547	214	456	179	228	89
3828	Hazelnut Brown	173	67	144	56	72	28
3829	Old Gold-VY DK	441	173	368	144	184	72
3831	Raspberry-DK	677	266	564	222	282	111
3852	Straw-VY DK	59	22	50	18	25	9
3853	Autumn Gold-DK	319	124	266	104	133	52
3854	Autumn Gold-MD	880	346	734	288	367	144
3856	Mahogany-UL VY LT	149	58	125	48	62	24
3857	Rosewood-DK	1269	499	1058	416	529	208
3858	Rosewood-MD	1006	396	839	330	419	165
3860	Cocoa	234	92	195	77	98	38
3861	Cocoa-LT	187	72	156	60	78	30

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	386	152	371	146	357	141
300	Mahogany-VY DK	2151	847	2069	814	1992	784
317	Pewter Gray	51	19	49	19	47	18
347	Salmon-VY DK	312	122	300	118	289	113
349	Coral-DK	19	7	19	7	18	7
350	Coral-MD	75	29	72	28	69	27
351	Coral	37	14	35	14	34	13
355	Terra Cotta-DK	609	240	586	231	564	222
356	Terra Cotta-MD	213	84	205	80	197	77
371	Mustard	980	385	942	370	907	357
402	Mahogany-VY LT	79	31	76	30	73	29
414	Steel Gray-DK	55	22	53	21	51	20
420	Hazelnut Brown-DK	896	352	861	339	829	326
436	Tan	163	64	157	62	151	59
437	Tan-LT	91	35	87	34	84	33
452	Shell Gray-MD	24	9	24	9	23	9
471	Avocado Green-VY LT	379	149	365	143	351	138
522	Fern Green	102	40	98	38	94	37
524	Fern Green-VY LT	24	9	23	8	22	8
535	Ash Gray-VY LT	185	73	178	70	171	67
611	Drab Brown	729	287	701	276	675	265
612	Drab Brown-LT	103	40	99	39	95	37
613	Drab Brown-VY LT	34	13	33	12	31	12
645	Beaver Gray-VY DK	102	40	98	38	94	37
647	Beaver Gray-MD	58	22	56	21	54	21
648	Beaver Gray-LT	30	12	28	11	27	11
680	Old Gold-DK	482	189	464	182	447	175
721	Orange Spice-MD	94	37	91	35	87	34

722	Orange Spice-LT	217	85	209	82	201	79
725	Topaz	262	103	252	99	243	95
726	Topaz-LT	21	8	20	8	19	7
730	Olive Green-VY DK	688	271	662	260	637	251
732	Olive Green	1307	514	1257	494	1210	476
733	Olive Green-MD	114	45	109	43	105	41
734	Olive Green-LT	250	98	240	94	231	91
738	Tan-VY LT	120	47	115	45	111	43
741	Tangerine-MD	96	37	92	36	89	35
743	Yellow-MD	377	148	362	142	349	137
744	Yellow-Pale	462	181	444	174	427	168
745	Yellow-LT Pale	99	38	95	37	91	35
783	Topaz-MD	166	65	160	62	154	60
801	Coffee Brown-DK	2290	901	2202	866	2120	834
832	Golden Olive	212	84	204	80	197	77
839	Beige Brown-DK	220	86	212	83	204	80
869	Hazelnut Brown-VY DK	647	254	622	244	599	235
900	Burnt Orange-DK	25	9	24	9	23	9
920	Copper-MD	531	209	510	201	491	193
921	Copper	57	22	55	21	53	21
922	Copper-LT	302	118	290	114	279	109
926	Gray Green-MD	34	13	33	12	31	12
927	Gray Green-LT	70	27	67	26	65	25
930	Antique Blue-DK	15	6	15	6	14	5
934	Black Avocado Green	16761	6598	16116	6344	15519	6109
935	Avocado Green-DK	3679	1448	3538	1392	3407	1341
937	Avocado Green-MD	2776	1093	2670	1051	2571	1012
938	Coffee Brown-UL DK	7546	2971	7256	2856	6987	2751
975	Golden Brown-DK	834	328	802	315	772	303
976	Golden Brown-MD	436	171	419	165	403	159
977	Golden Brown-LT	312	122	300	118	289	113
3011	Khaki Green-DK	1594	627	1533	603	1476	581
3012	Khaki Green-MD	1939	763	1864	734	1795	707
3021	Brown Gray-VY DK	2148	845	2066	813	1989	783
3041	Antique Violet-MD	75	29	72	28	69	27
3045	Yellow Beige-DK	214	84	206	80	198	77
3046	Yellow Beige-MD	72	28	69	27	67	26
3052	Green Gray-MD	292	114	280	110	270	106
3328	Salmon-DK	58	22	55	21	53	21
3341	Apricot	57	22	55	21	53	21
3346	Hunter Green	323	127	310	122	299	117
3362	Pine Green-DK	801	315	771	303	742	292
3363	Pine Green-MD	109	42	105	41	101	39
3685	Mauve-DK	98	38	94	37	91	35
3721	Shell Pink-DK	487	192	469	184	451	177
3768	Gray Green-DK	180	71	173	68	167	65
3772	Desert Sand-VY DK	71	27	68	26	65	25
3782	Mocha Brown-LT	54	21	52	20	50	19
3787	Brown Gray-DK	153	60	147	57	142	55
3799	Pewter Gray-VY DK	1619	637	1556	613	1499	590
3801	Christmas Red-LT	82	32	79	30	76	29
3820	Straw-DK	274	107	263	103	253	99
3823	Yellow-UL Pale	24	9	24	9	23	9
3826	Golden Brown	389	153	374	147	360	141
3827	Golden Brown-Pale	219	86	210	82	203	79
3828	Hazelnut Brown	69	27	66	26	64	25
3829	Old Gold-VY DK	176	69	170	66	163	64
3831	Raspberry-DK	271	107	260	102	251	99
3852	Straw-VY DK	24	9	23	8	22	8

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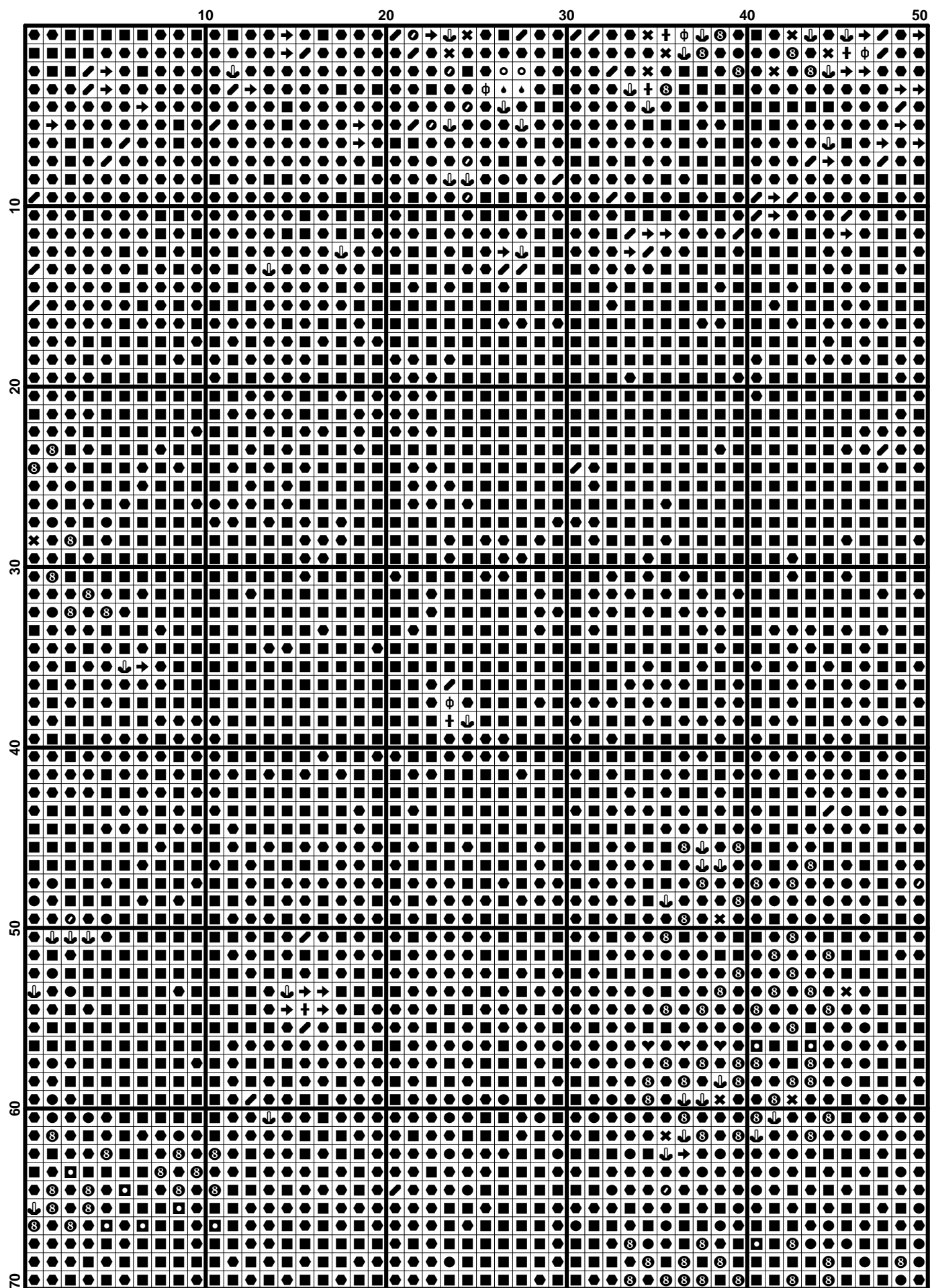
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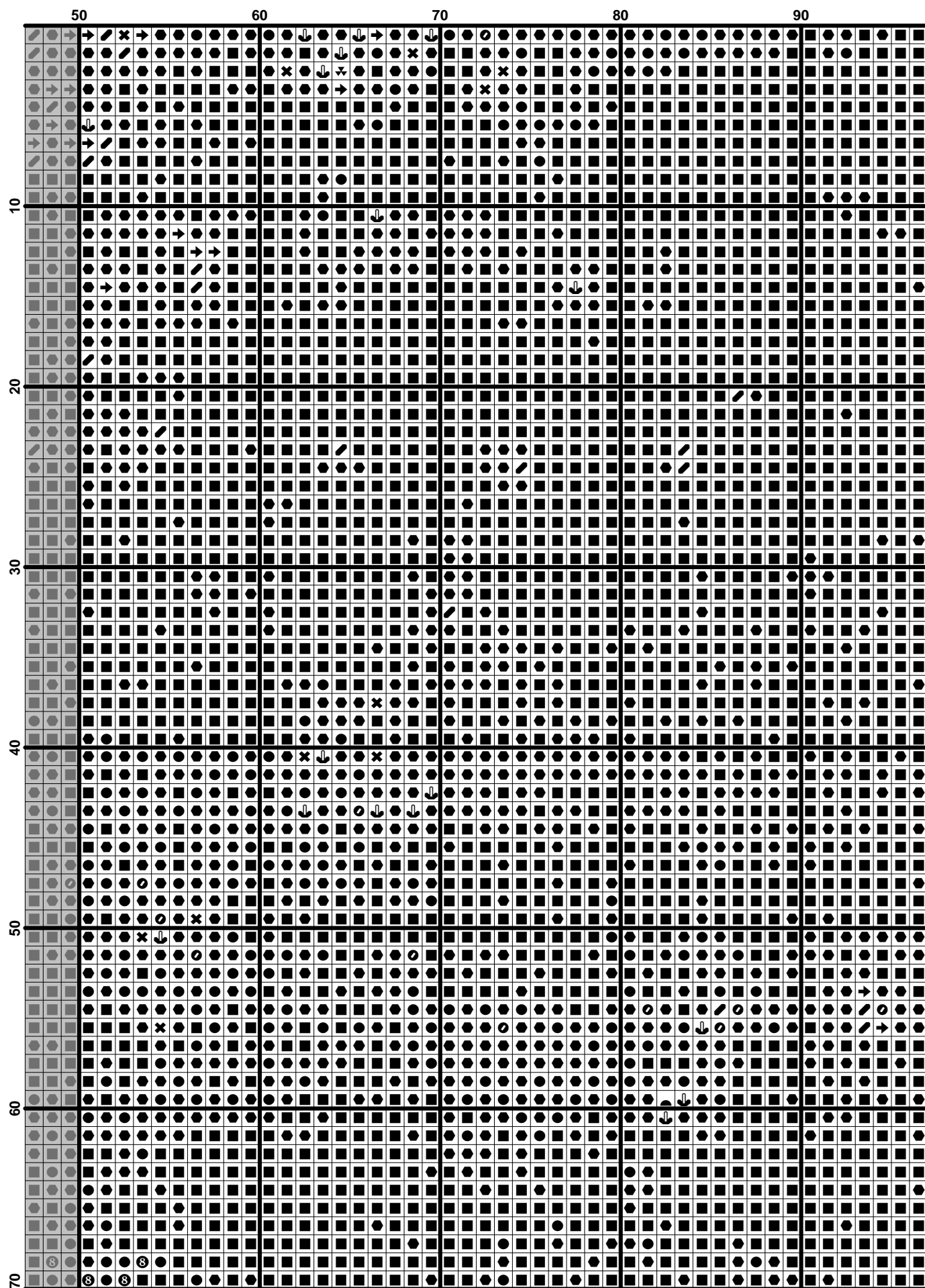
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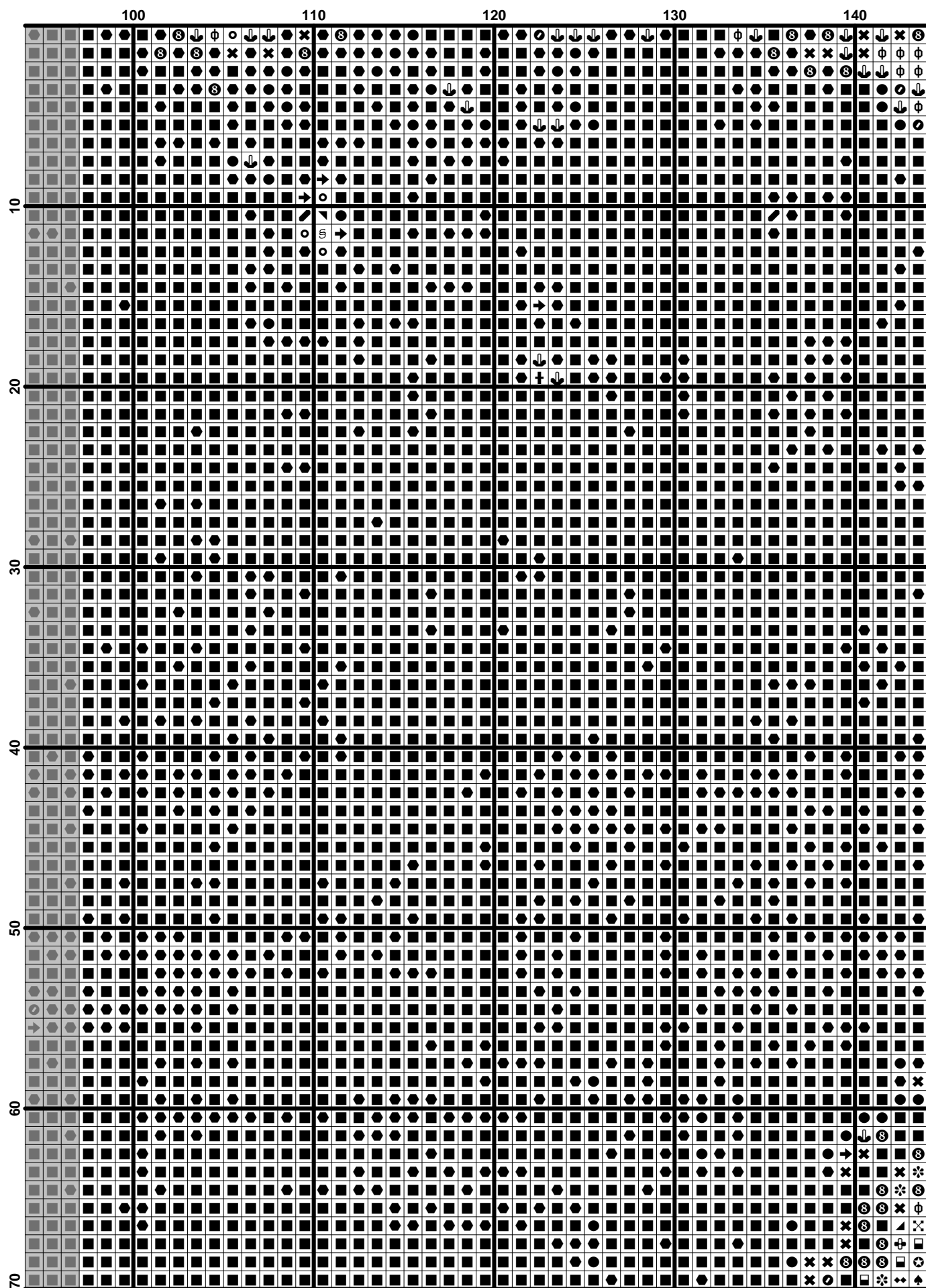
3853	Autumn Gold-DK	127	50	123	48	118	46
3854	Autumn Gold-MD	352	138	339	133	326	128
3856	Mahogany-UL VY LT	60	23	57	22	55	21
3857	Rosewood-DK	508	199	488	192	470	185
3858	Rosewood-MD	402	158	387	152	373	147
3860	Cocoa	94	37	90	35	87	34
3861	Cocoa-LT	75	29	72	28	69	27

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	345	136	322	127	302	119
300	Mahogany-VY DK	1921	756	1793	706	1681	662
317	Pewter Gray	46	17	43	16	40	15
347	Salmon-VY DK	279	109	260	102	244	96
349	Coral-DK	17	6	16	6	15	6
350	Coral-MD	67	26	62	24	59	23
351	Coral	33	13	31	12	29	11
355	Terra Cotta-DK	544	214	508	200	476	187
356	Terra Cotta-MD	190	75	178	70	167	65
371	Mustard	875	344	817	321	766	301
402	Mahogany-VY LT	71	28	66	26	62	24
414	Steel Gray-DK	50	19	46	18	43	17
420	Hazelnut Brown-DK	800	314	746	293	700	275
436	Tan	146	57	136	53	128	50
437	Tan-LT	81	32	76	29	71	28
452	Shell Gray-MD	22	8	20	8	19	7
471	Avocado Green-VY LT	339	133	316	124	296	116
522	Fern Green	91	35	85	33	79	31
524	Fern Green-VY LT	21	8	20	7	19	7
535	Ash Gray-VY LT	165	65	154	61	145	57
611	Drab Brown	651	256	608	239	570	224
612	Drab Brown-LT	92	36	86	34	80	32
613	Drab Brown-VY LT	30	12	28	11	26	10
645	Beaver Gray-VY DK	91	35	85	33	79	31
647	Beaver Gray-MD	52	20	49	19	46	17
648	Beaver Gray-LT	26	10	25	10	23	9
680	Old Gold-DK	431	169	402	158	377	148
721	Orange Spice-MD	84	33	79	31	74	29
722	Orange Spice-LT	194	76	181	71	170	66
725	Topaz	234	92	218	86	205	80
726	Topaz-LT	19	7	17	7	16	6
730	Olive Green-VY DK	615	242	574	226	538	212
732	Olive Green	1167	459	1089	428	1021	402
733	Olive Green-MD	102	40	95	37	89	35
734	Olive Green-LT	223	87	208	82	195	77
738	Tan-VY LT	107	42	100	39	93	37
741	Tangerine-MD	86	33	80	31	75	29
743	Yellow-MD	336	132	314	123	294	115
744	Yellow-Pale	412	162	385	151	361	142
745	Yellow-LT Pale	88	34	82	32	77	30
783	Topaz-MD	149	58	139	54	130	51
801	Coffee Brown-DK	2044	804	1908	751	1789	704
832	Golden Olive	190	75	177	70	166	65
839	Beige Brown-DK	197	77	184	72	172	68
869	Hazelnut Brown-VY DK	578	227	539	212	506	199

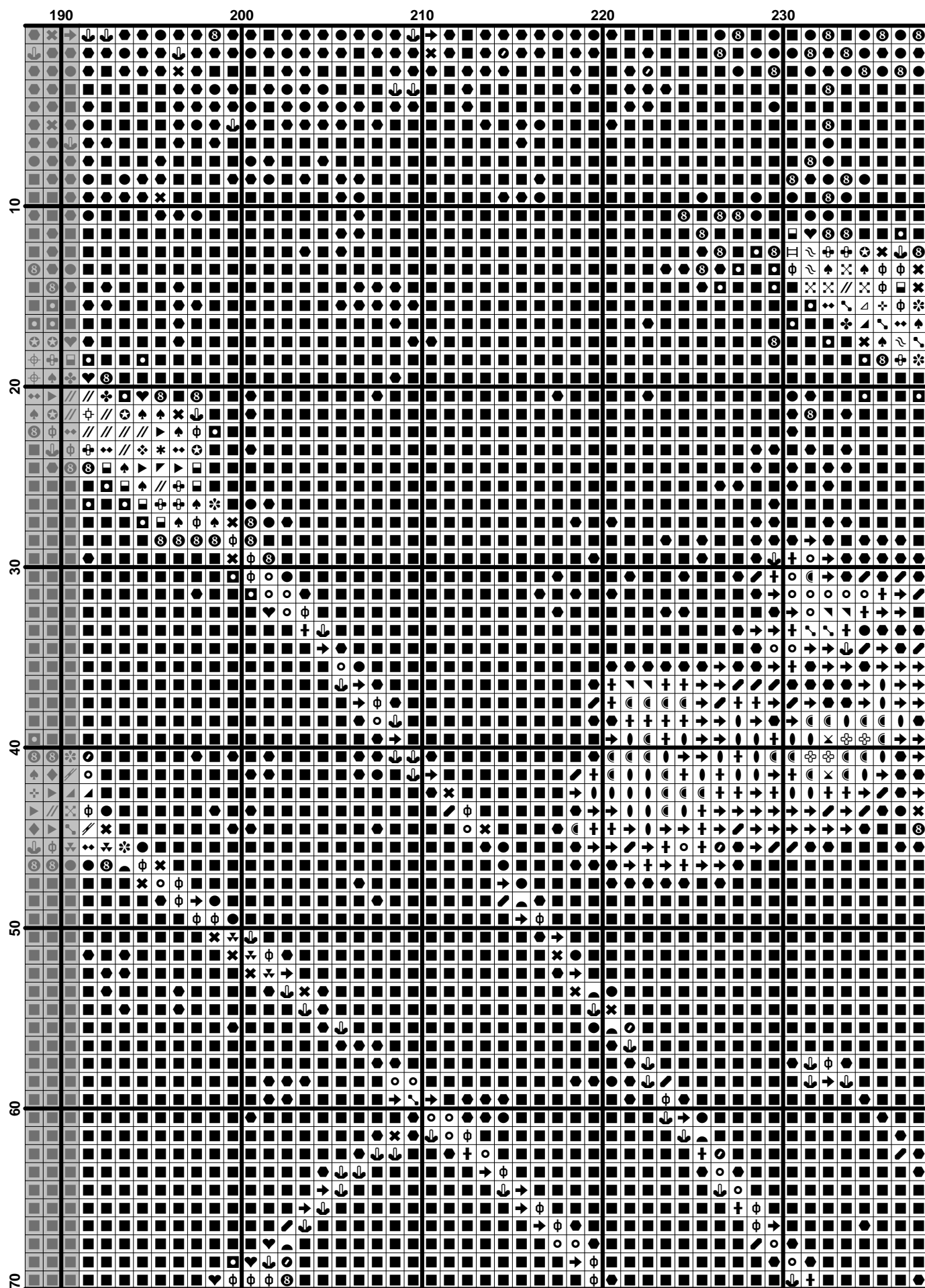
900	Burnt Orange-DK	23	8	21	8	20	7
920	Copper-MD	474	186	442	174	415	163
921	Copper	51	20	47	19	44	17
922	Copper-LT	269	105	251	98	236	92
926	Gray Green-MD	30	12	28	11	26	10
927	Gray Green-LT	62	24	58	23	55	21
930	Antique Blue-DK	14	5	13	5	12	5
934	Black Avocado Green	14965	5891	13967	5498	13094	5155
935	Avocado Green-DK	3285	1293	3066	1207	2874	1131
937	Avocado Green-MD	2479	976	2314	911	2169	854
938	Coffee Brown-UL DK	6738	2652	6289	2476	5896	2321
975	Golden Brown-DK	744	293	695	273	651	256
976	Golden Brown-MD	389	153	363	143	340	134
977	Golden Brown-LT	278	109	260	102	244	96
3011	Khaki Green-DK	1423	560	1328	523	1245	490
3012	Khaki Green-MD	1731	681	1616	636	1515	596
3021	Brown Gray-VY DK	1918	755	1790	704	1679	660
3041	Antique Violet-MD	67	26	62	24	59	23
3045	Yellow Beige-DK	191	75	178	70	167	65
3046	Yellow Beige-MD	64	25	60	23	56	22
3052	Green Gray-MD	260	102	243	95	228	89
3328	Salmon-DK	51	20	48	19	45	17
3341	Apricot	51	20	47	19	44	17
3346	Hunter Green	288	113	269	106	252	99
3362	Pine Green-DK	716	282	668	263	626	246
3363	Pine Green-MD	97	38	91	35	85	33
3685	Mauve-DK	87	34	82	32	77	30
3721	Shell Pink-DK	435	171	406	160	381	150
3768	Gray Green-DK	161	63	150	59	141	55
3772	Desert Sand-VY DK	63	24	59	23	55	21
3782	Mocha Brown-LT	48	19	45	17	42	16
3787	Brown Gray-DK	137	53	128	50	120	47
3799	Pewter Gray-VY DK	1445	569	1349	531	1265	498
3801	Christmas Red-LT	73	28	68	26	64	25
3820	Straw-DK	244	96	228	89	214	84
3823	Yellow-UL Pale	22	8	20	8	19	7
3826	Golden Brown	347	136	324	127	304	119
3827	Golden Brown-Pale	195	77	182	71	171	67
3828	Hazelnut Brown	62	24	58	22	54	21
3829	Old Gold-VY DK	158	62	147	58	138	54
3831	Raspberry-DK	242	95	226	89	212	83
3852	Straw-VY DK	21	8	20	7	19	7
3853	Autumn Gold-DK	114	44	106	41	100	39
3854	Autumn Gold-MD	314	123	293	115	275	108
3856	Mahogany-UL VY LT	53	21	50	19	47	18
3857	Rosewood-DK	453	178	423	166	397	156
3858	Rosewood-MD	359	141	335	132	314	124
3860	Cocoa	84	33	78	31	73	29
3861	Cocoa-LT	67	26	62	24	59	23

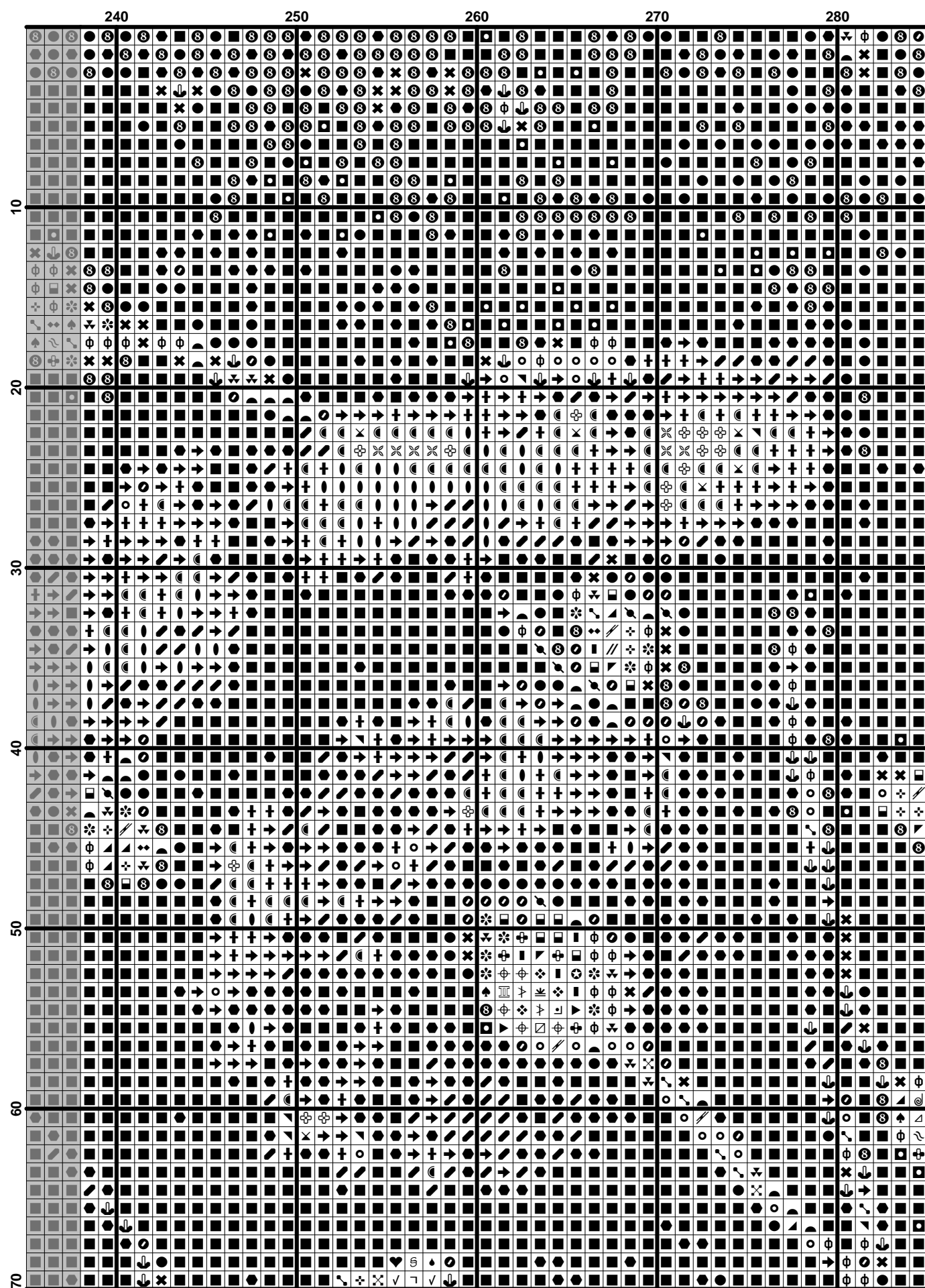


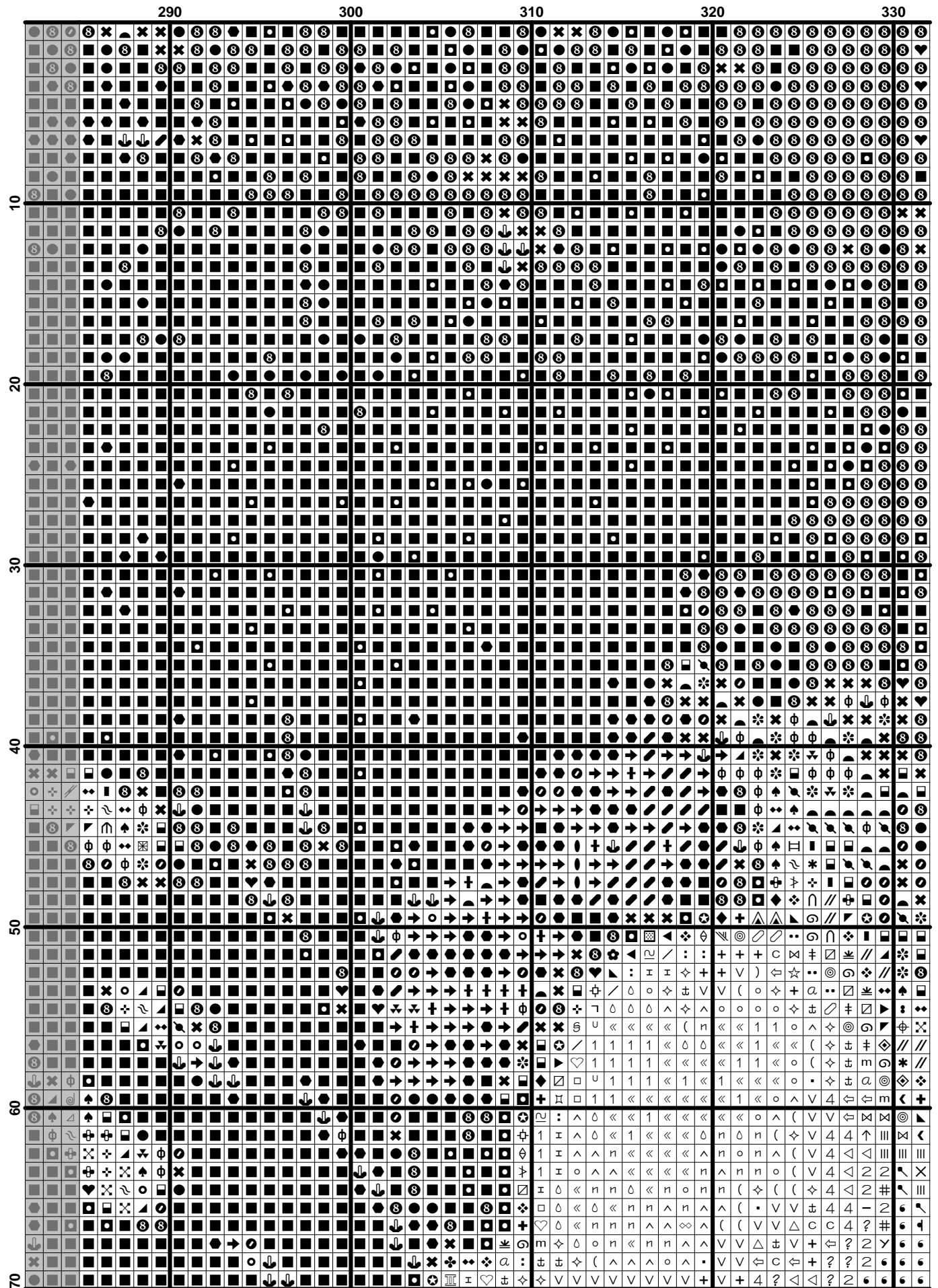


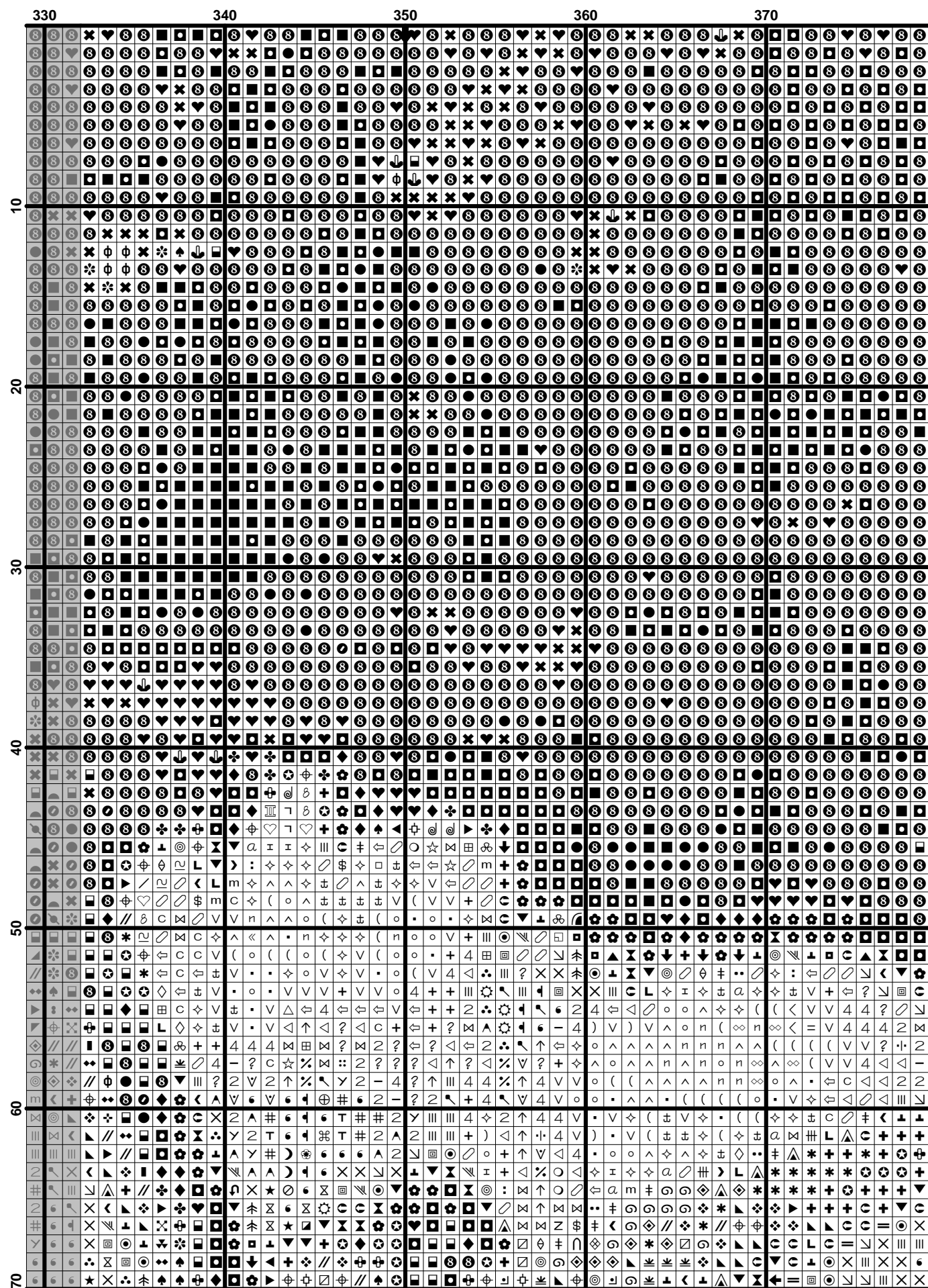




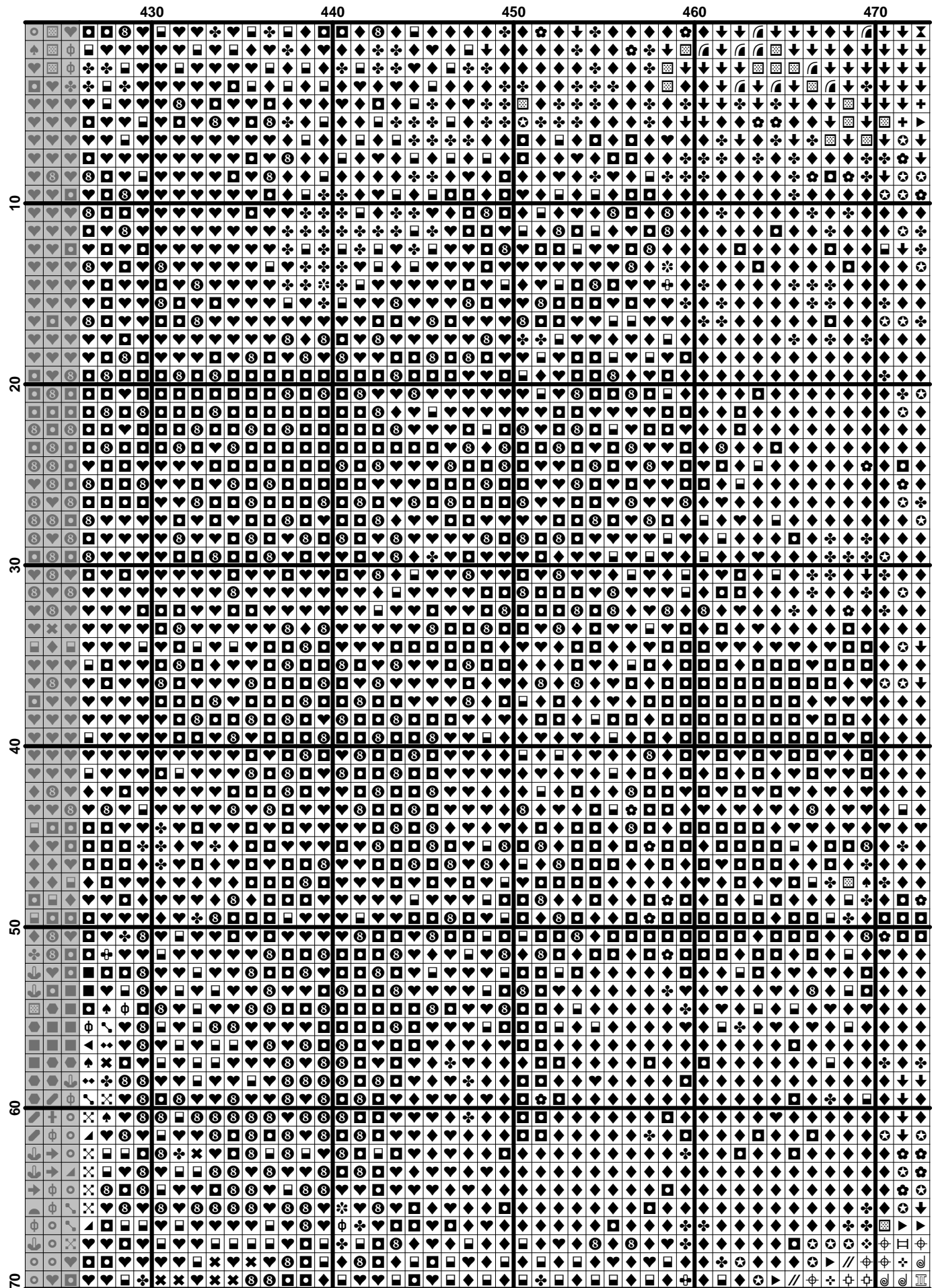


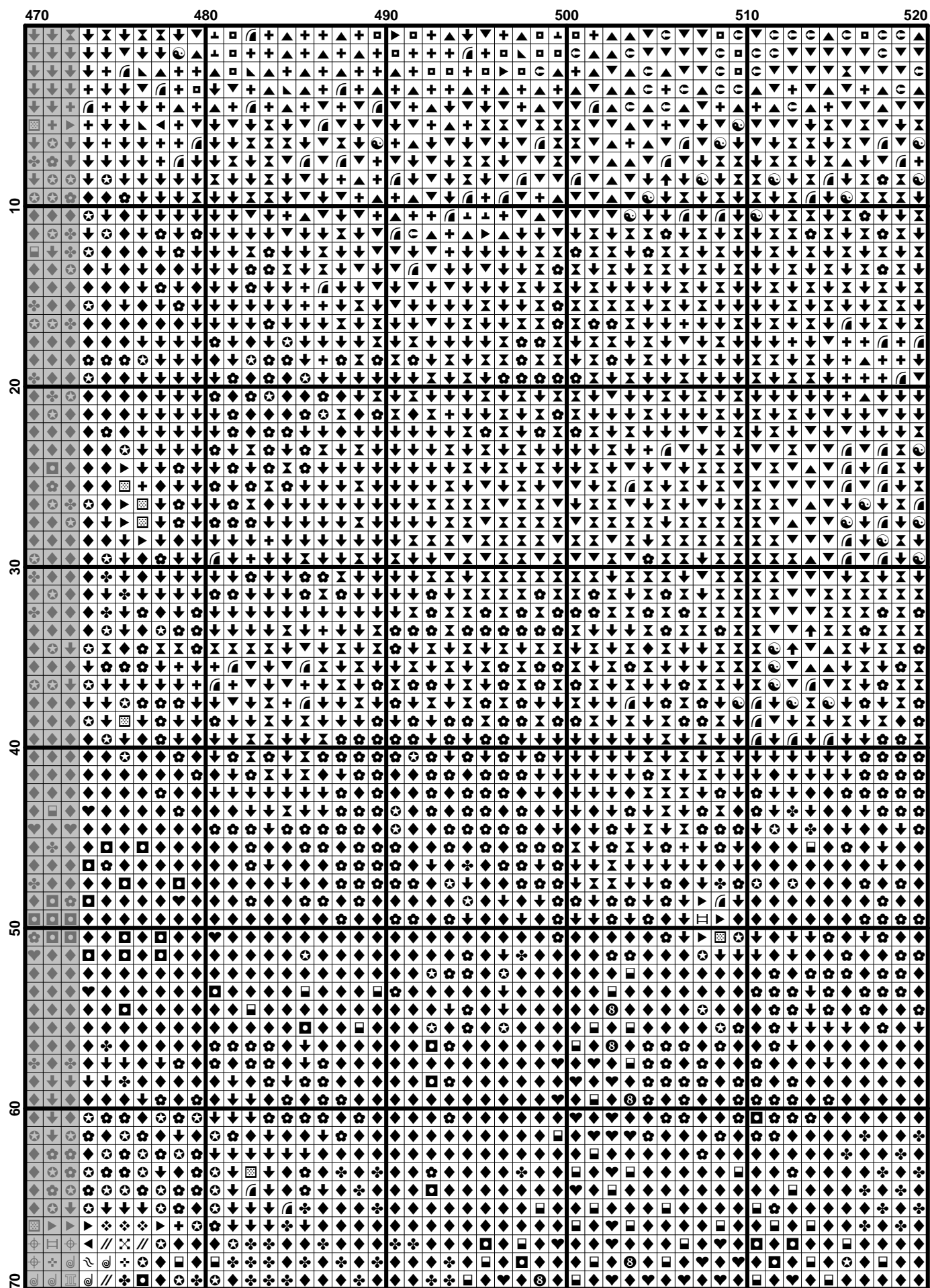


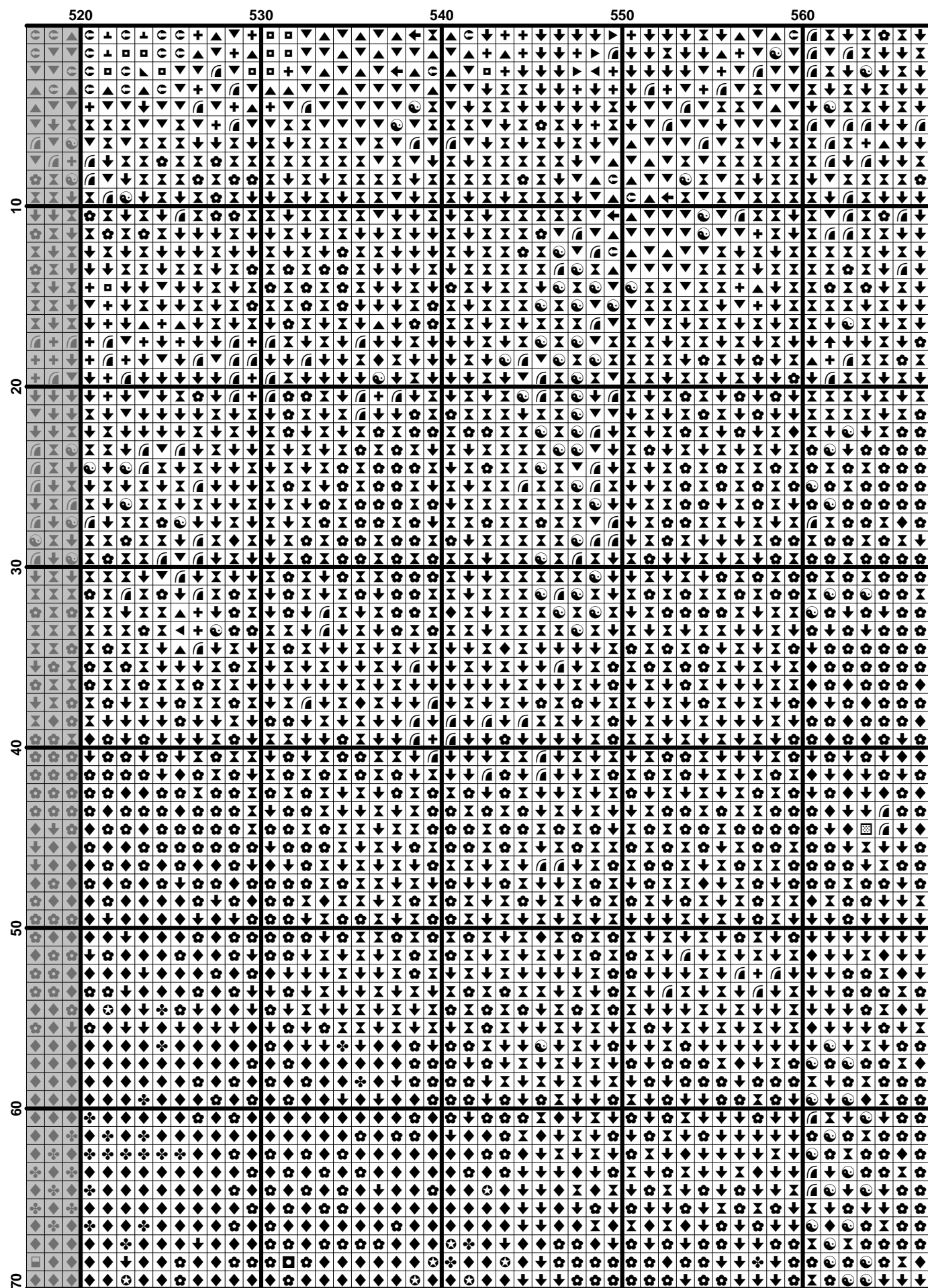


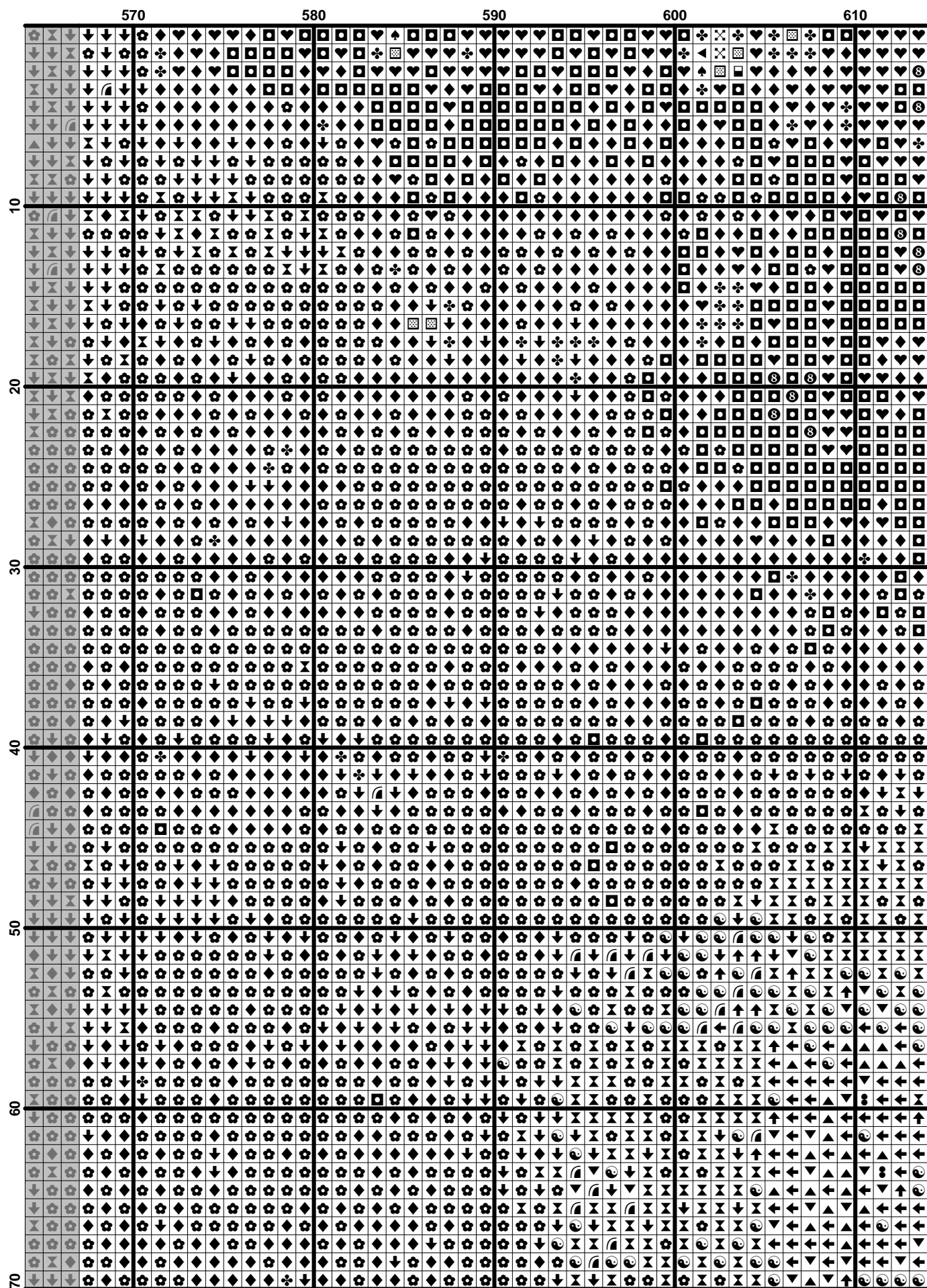


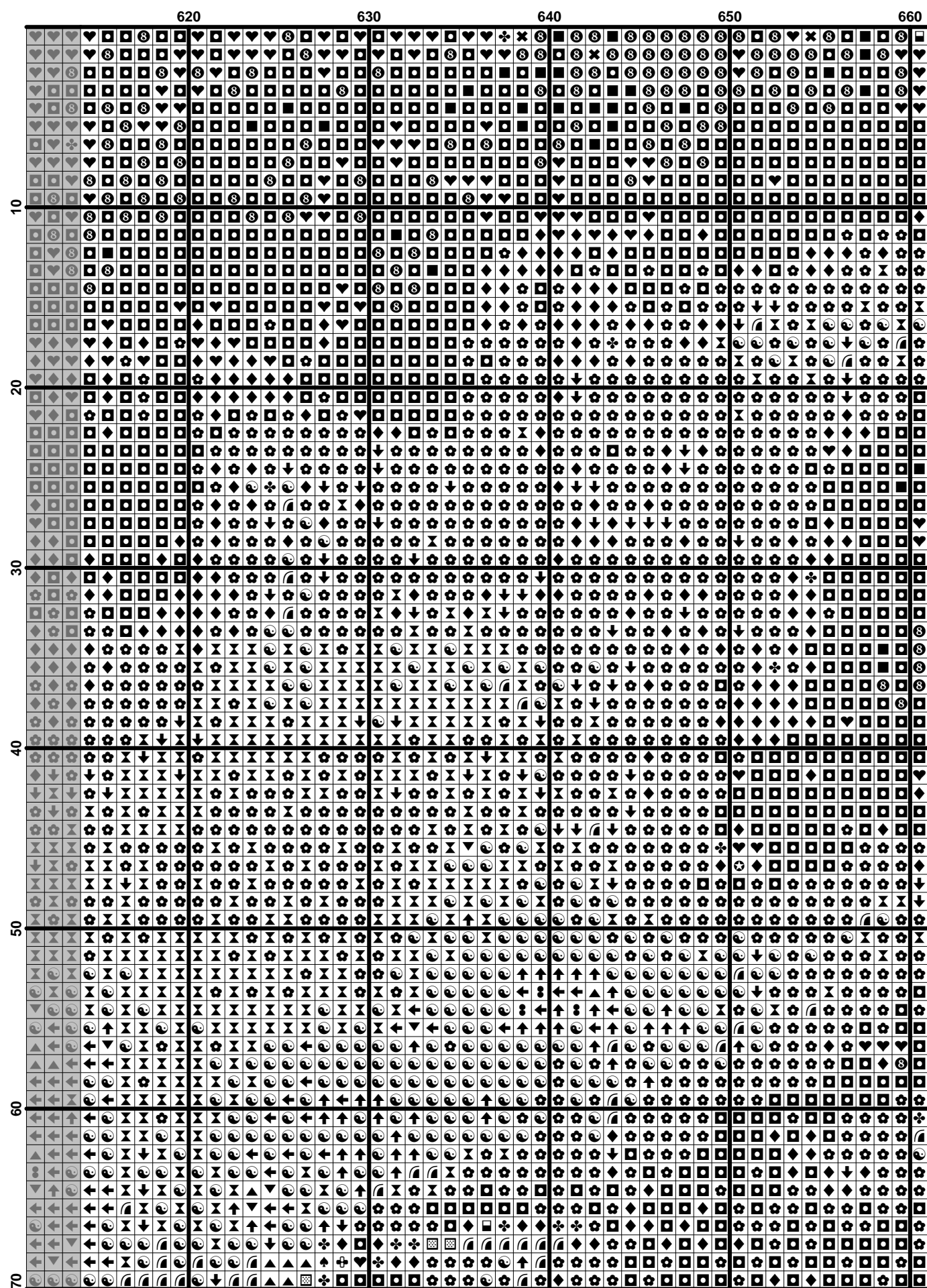


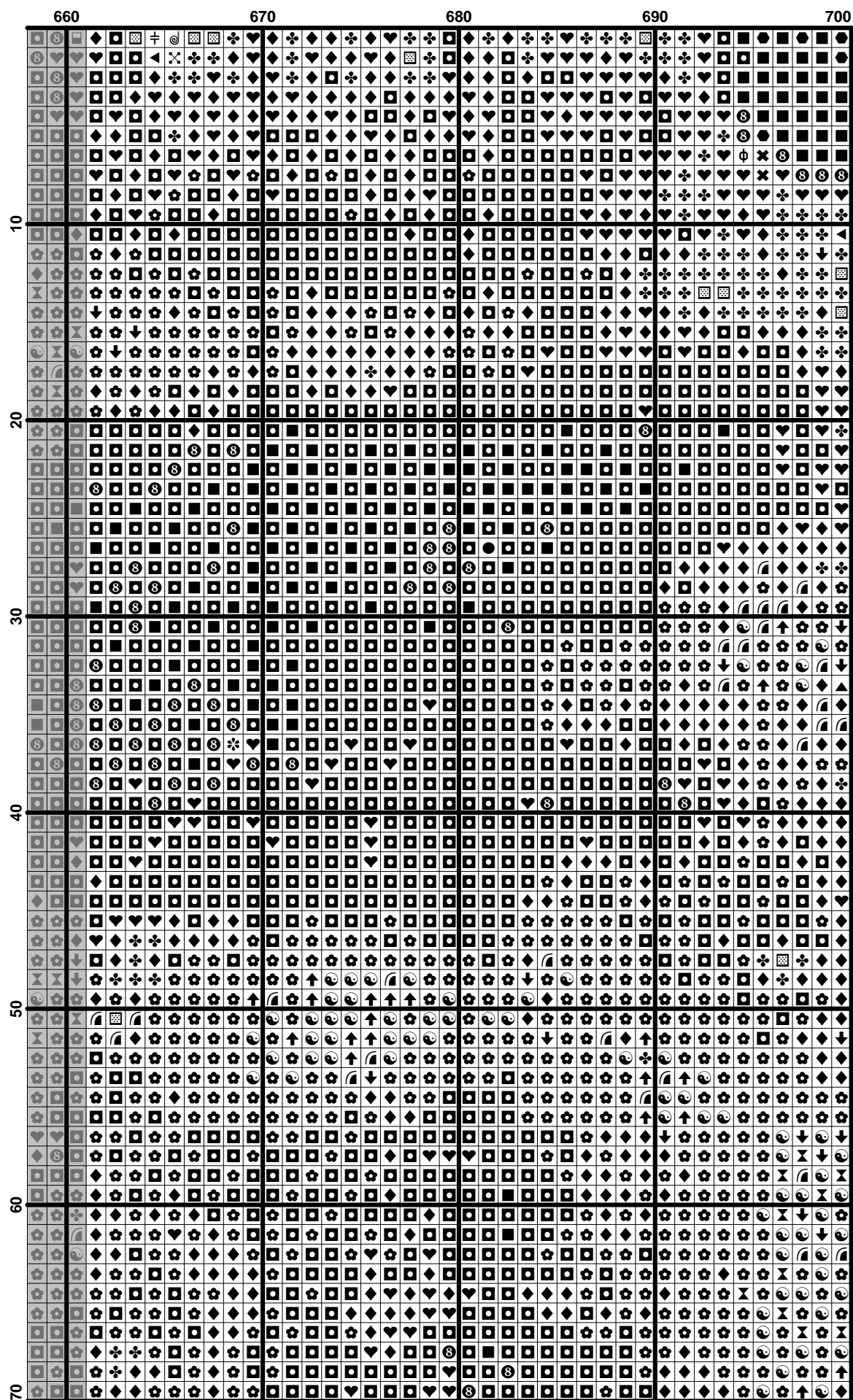


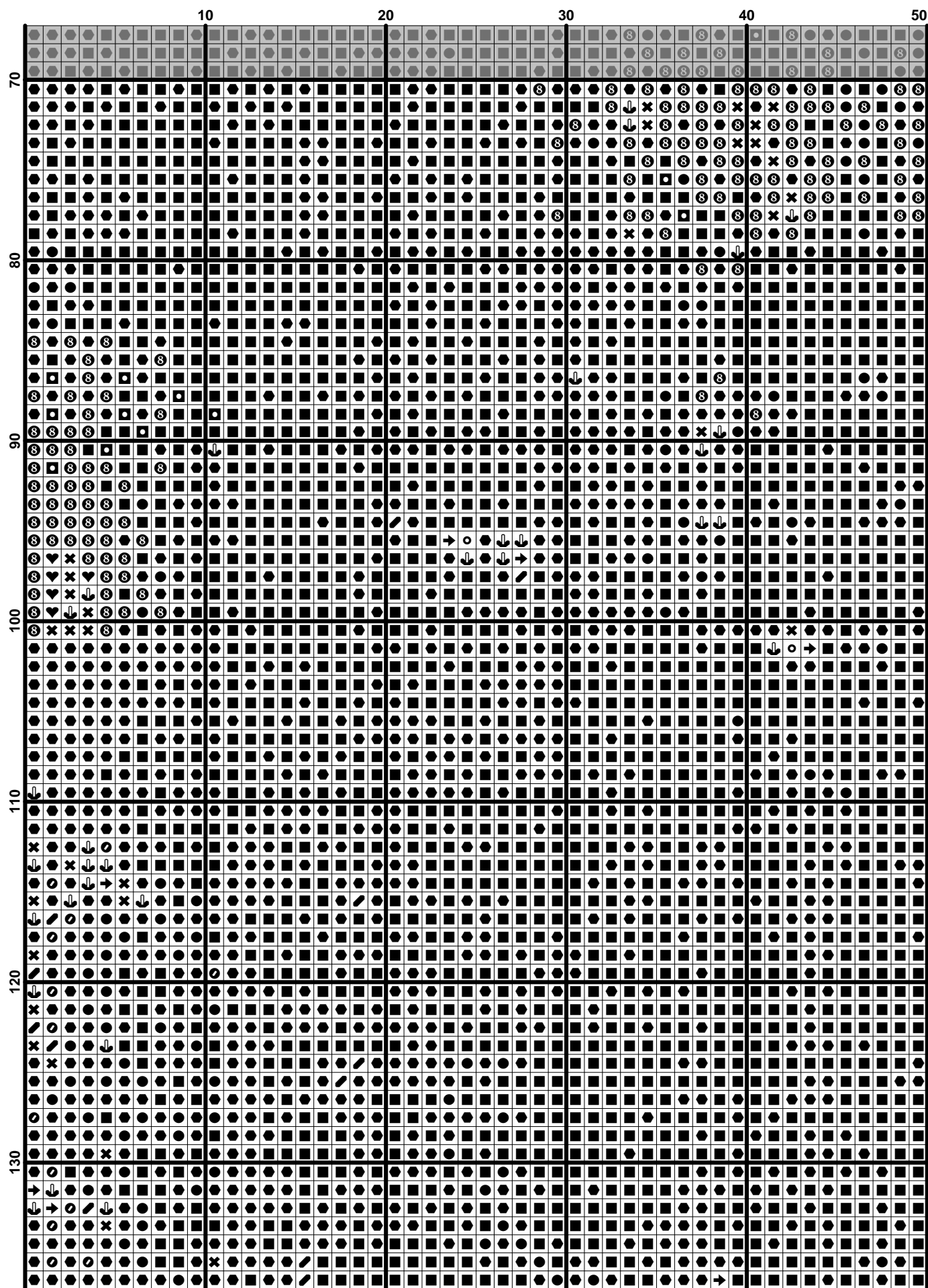


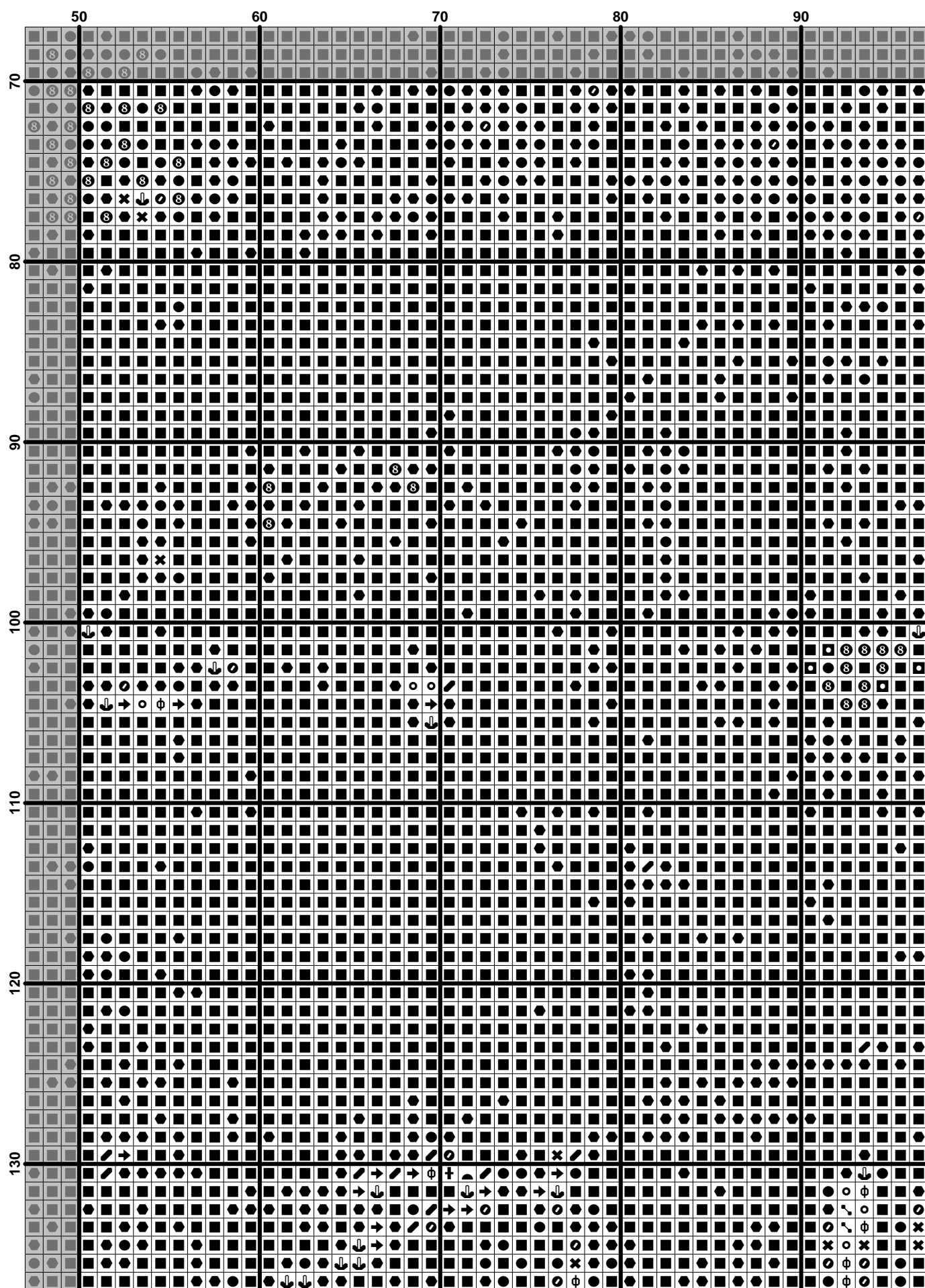


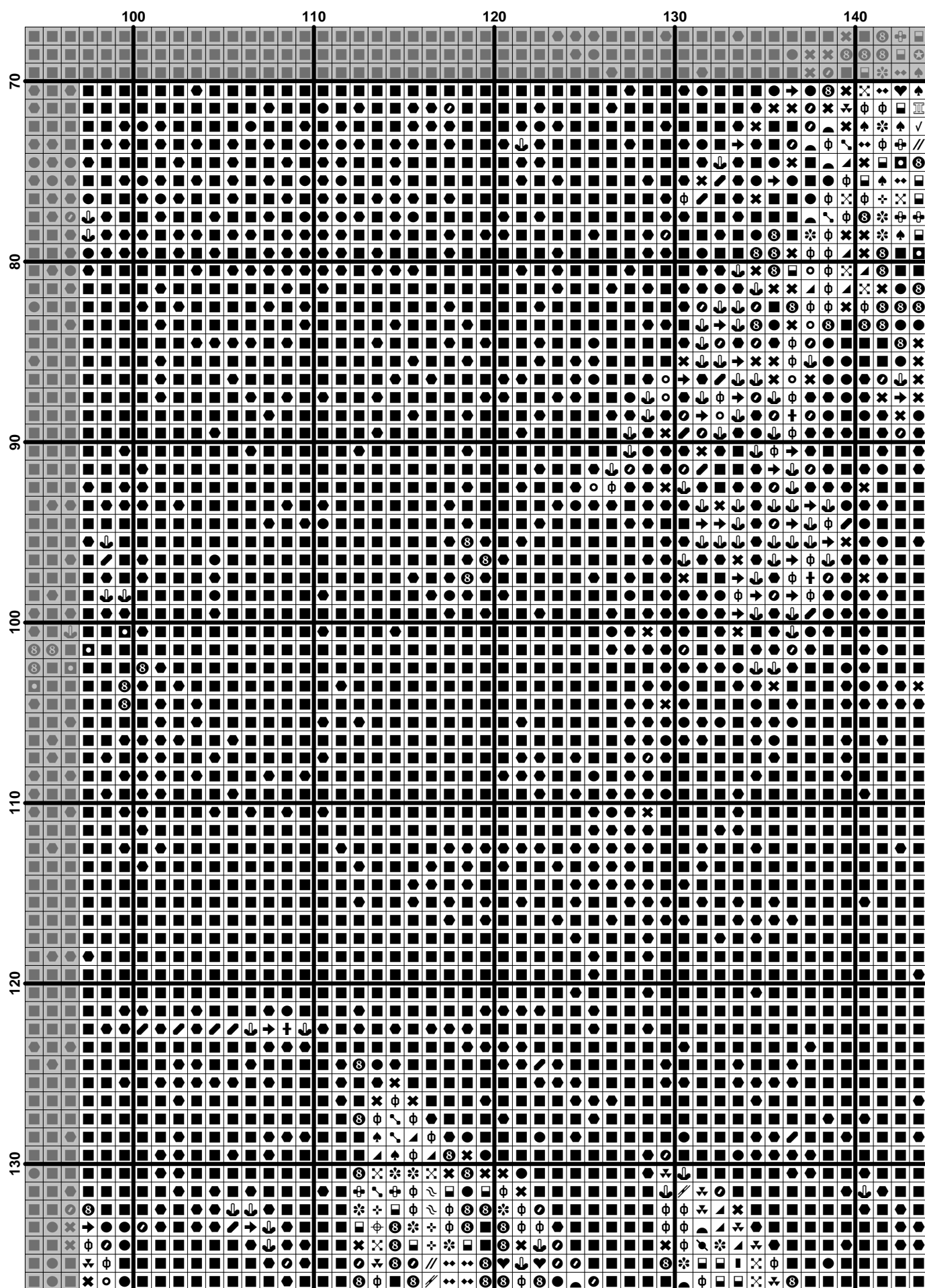


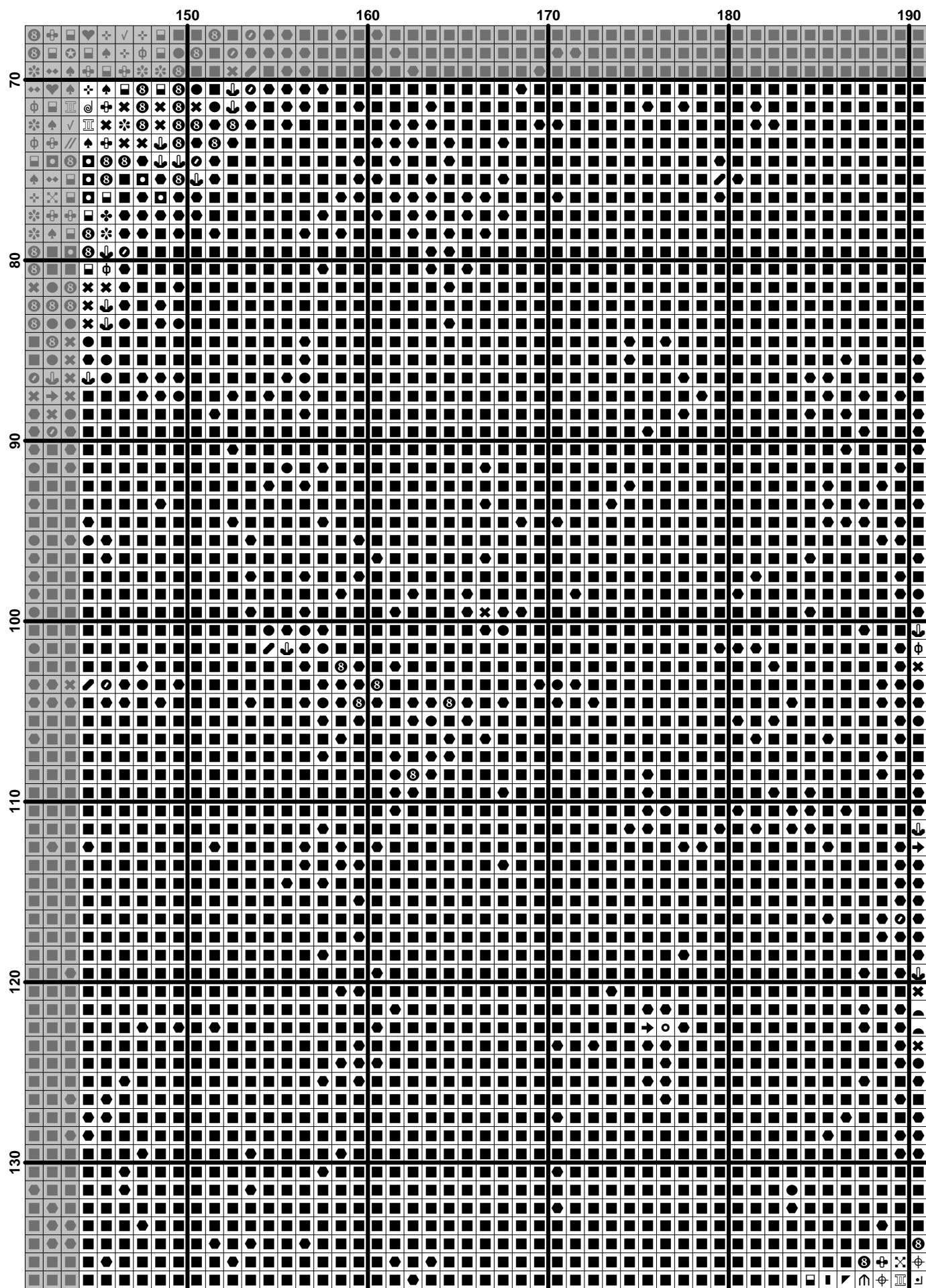


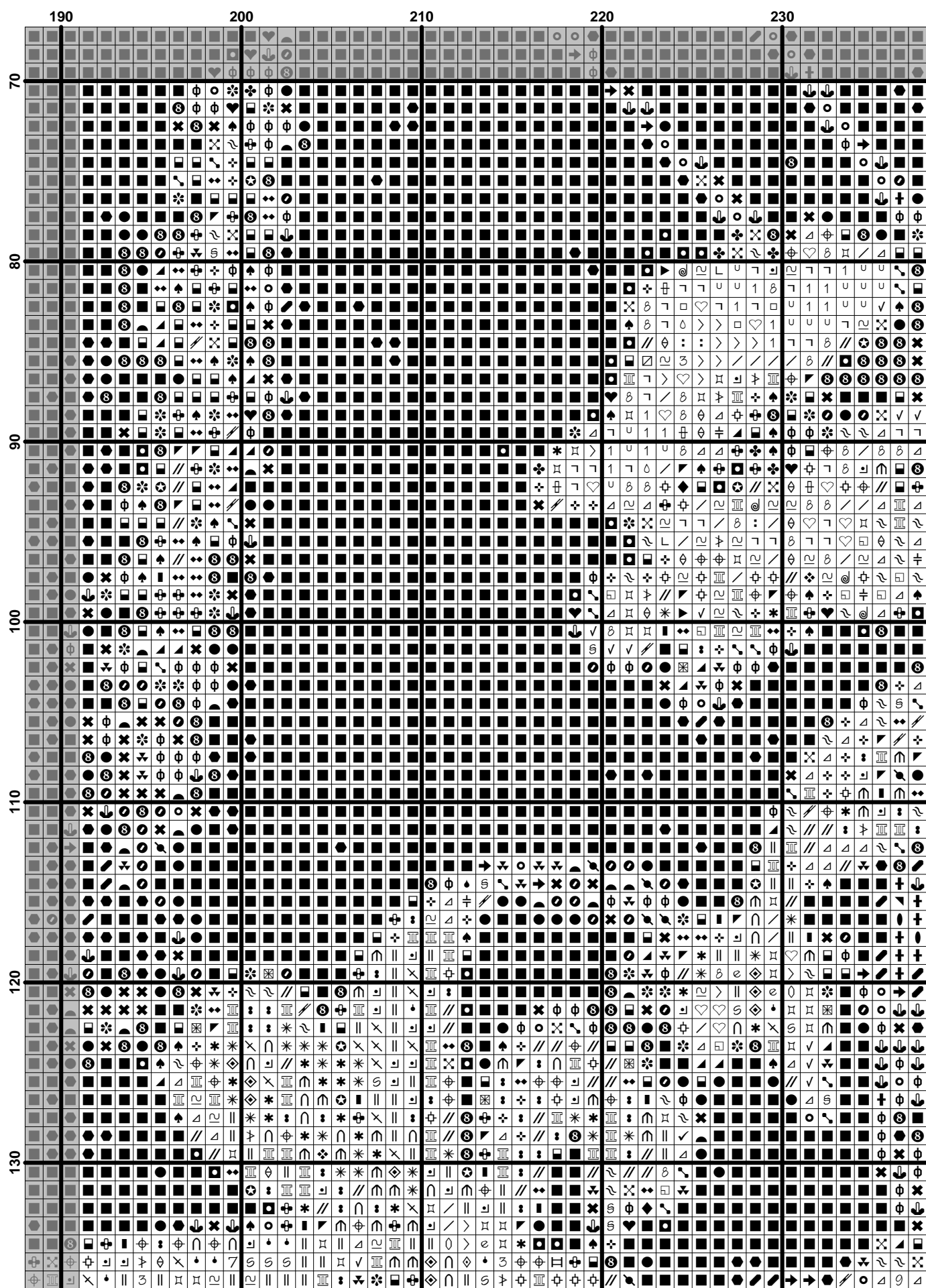


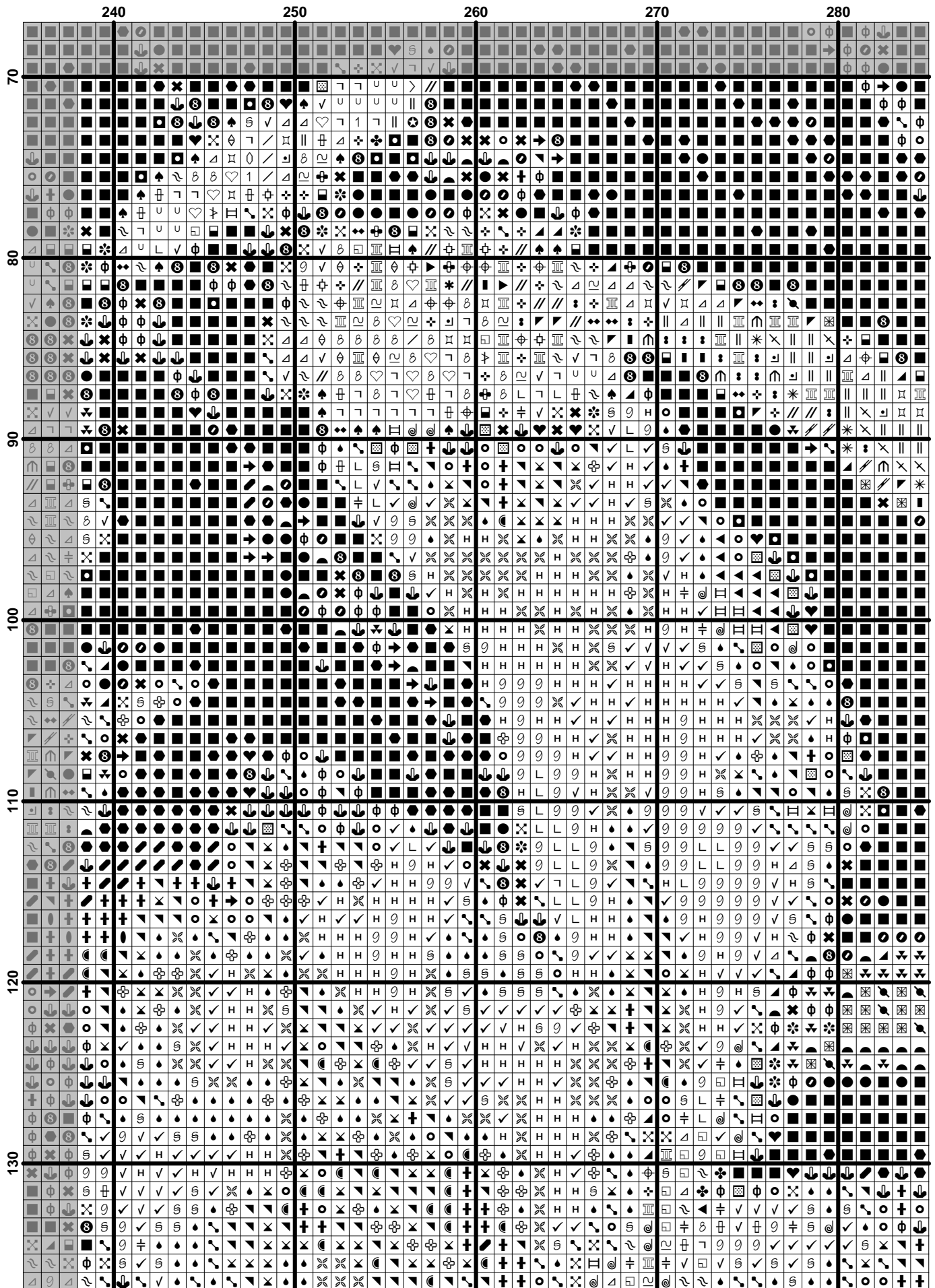




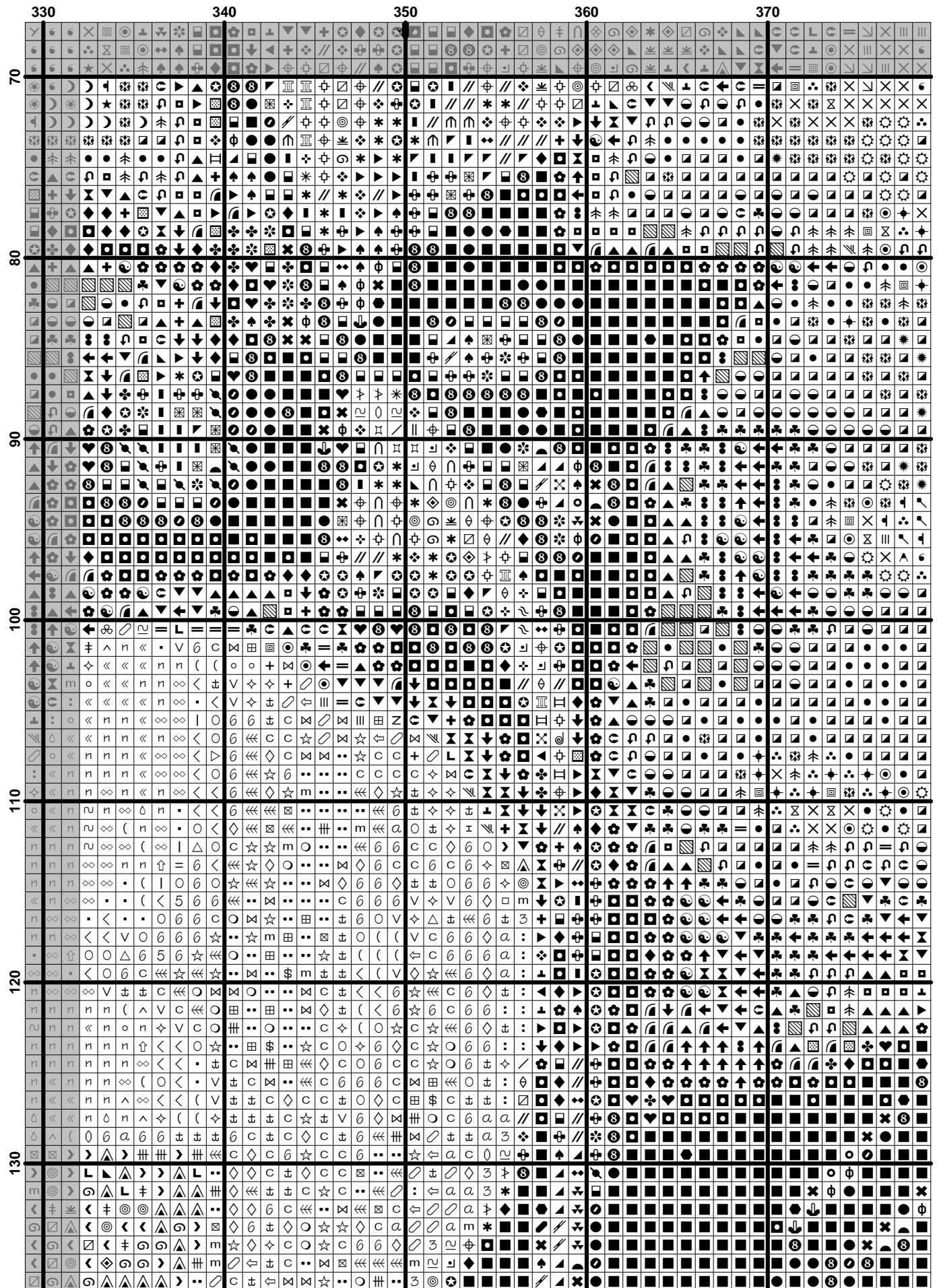




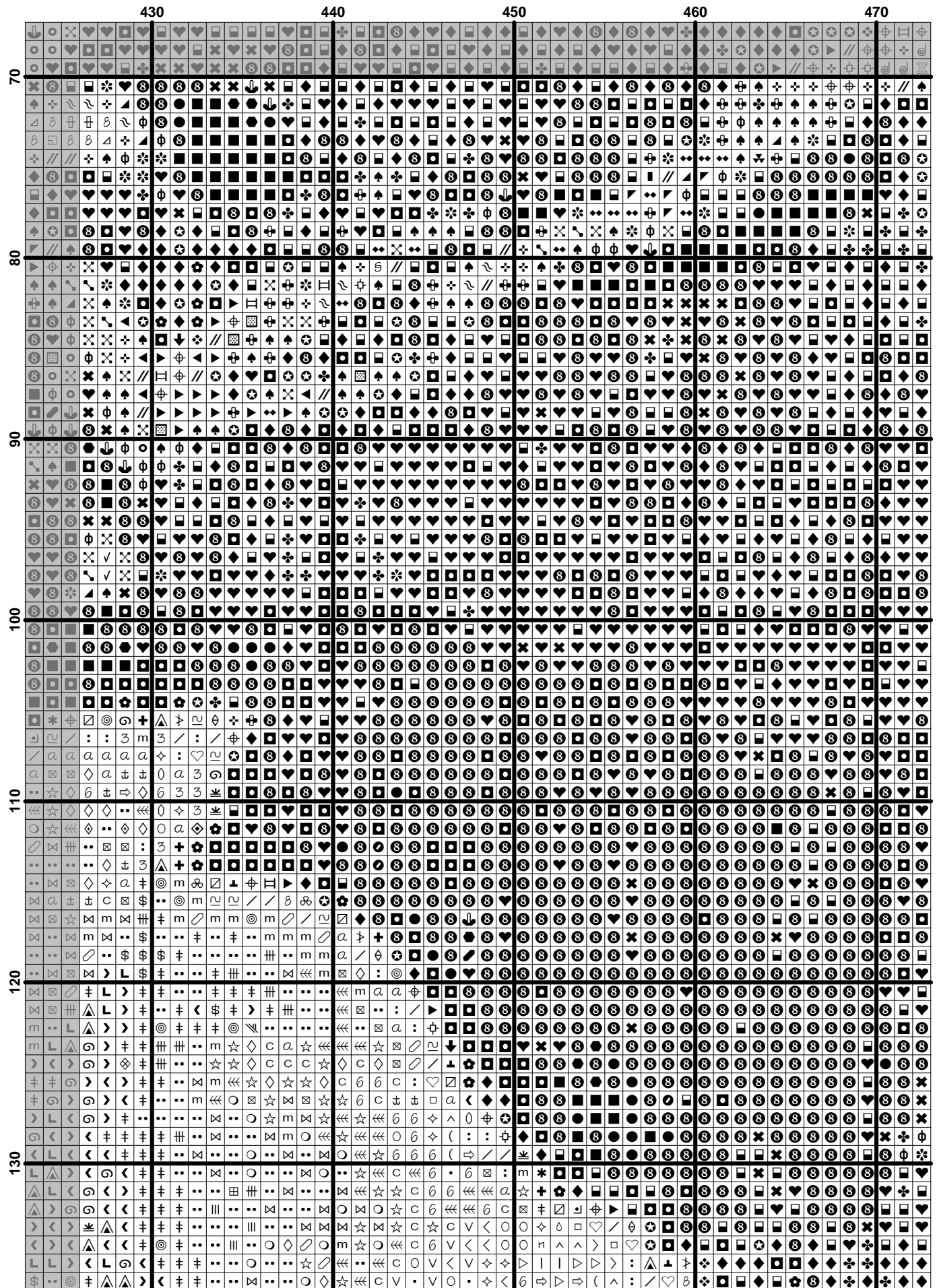


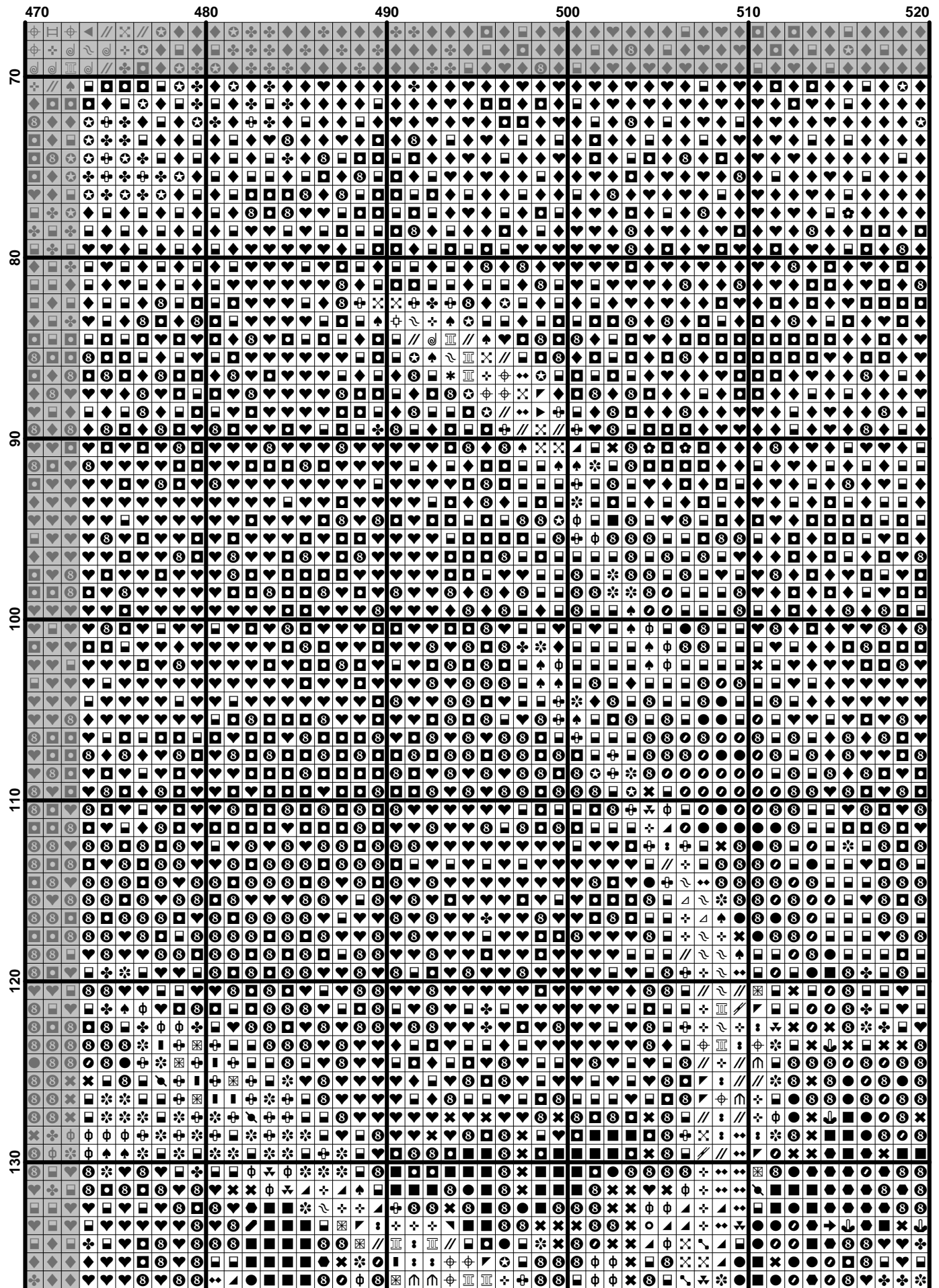


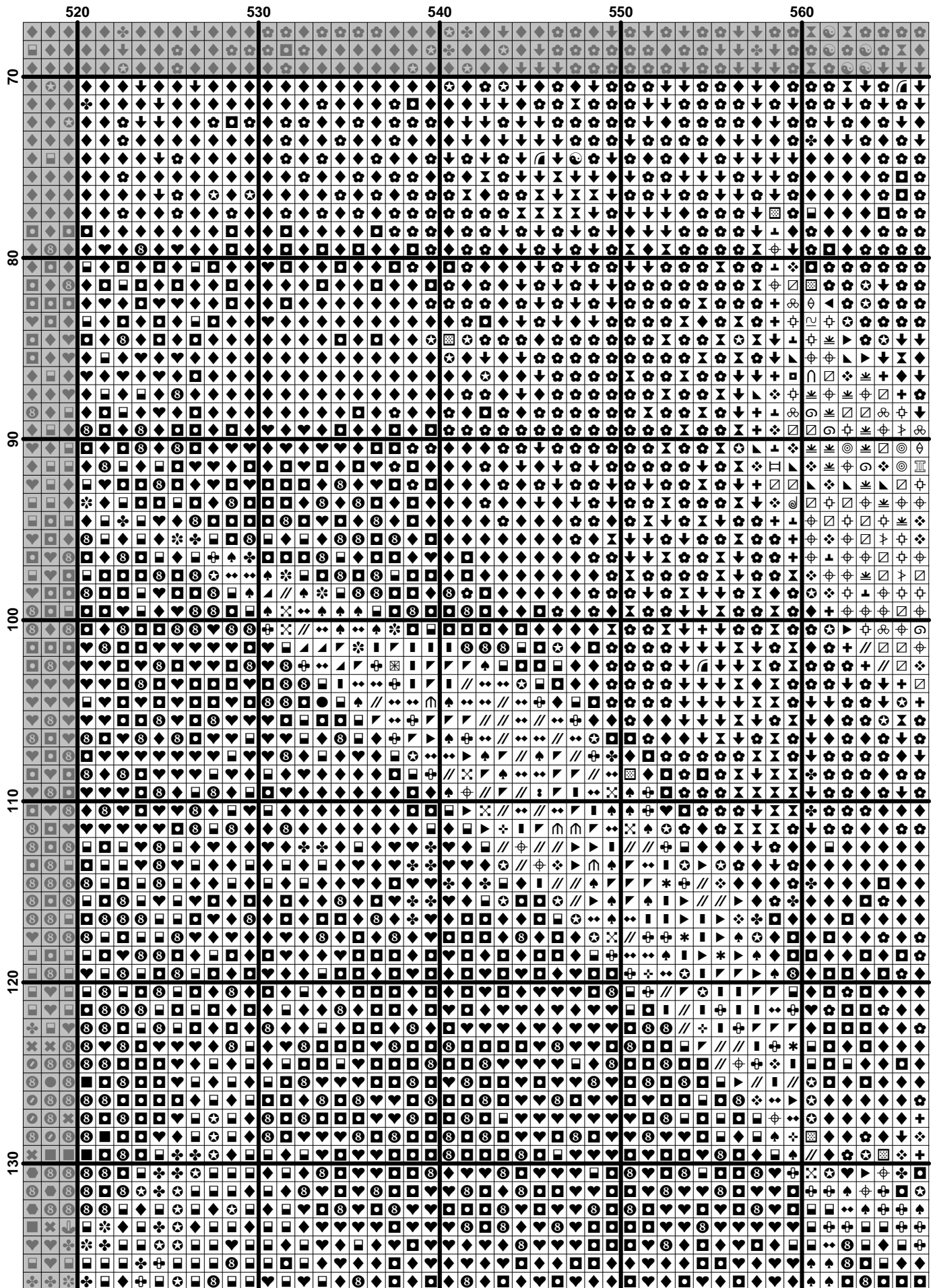
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70					
80					
90					
100					
110					
120					
130					

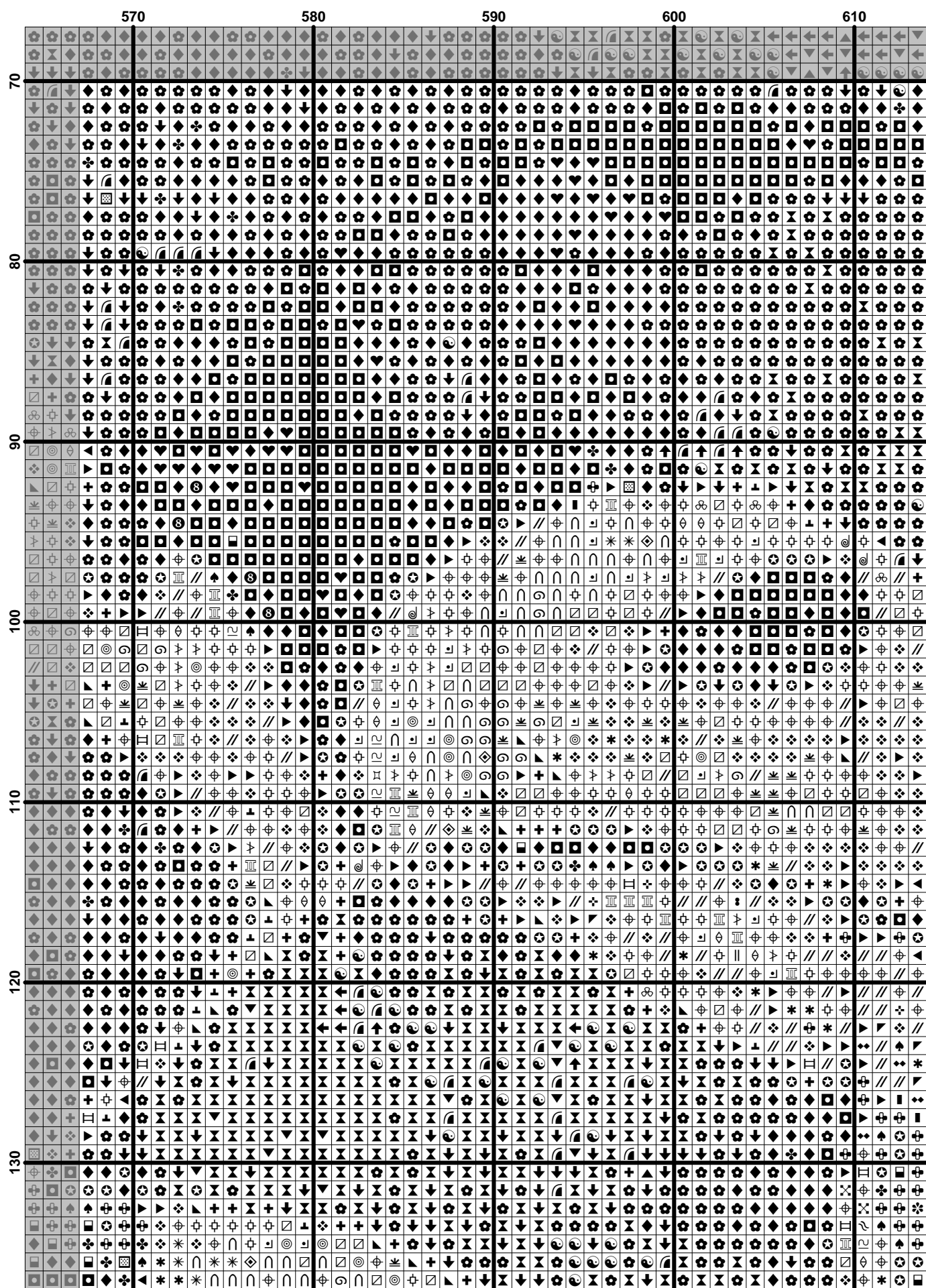


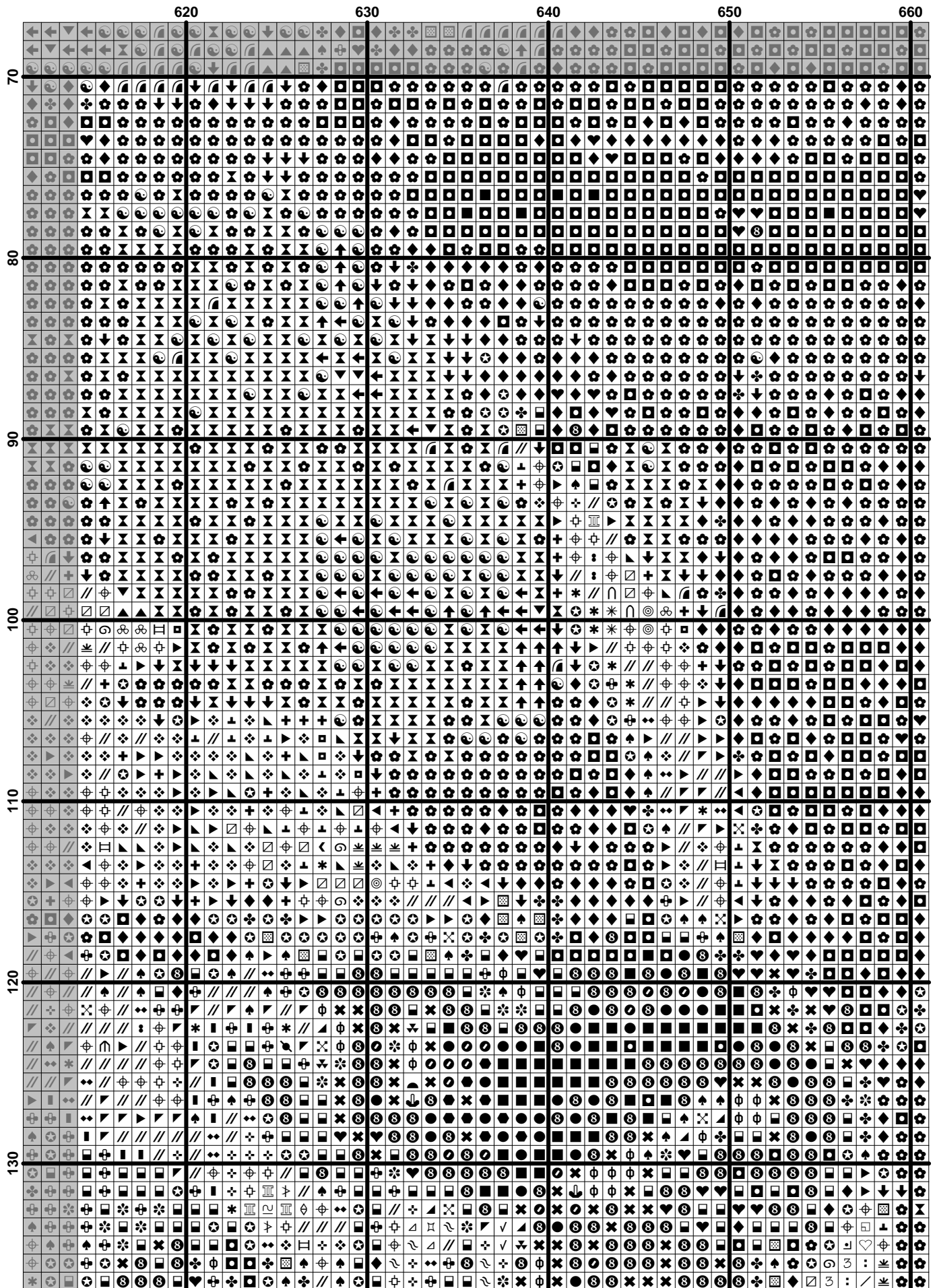
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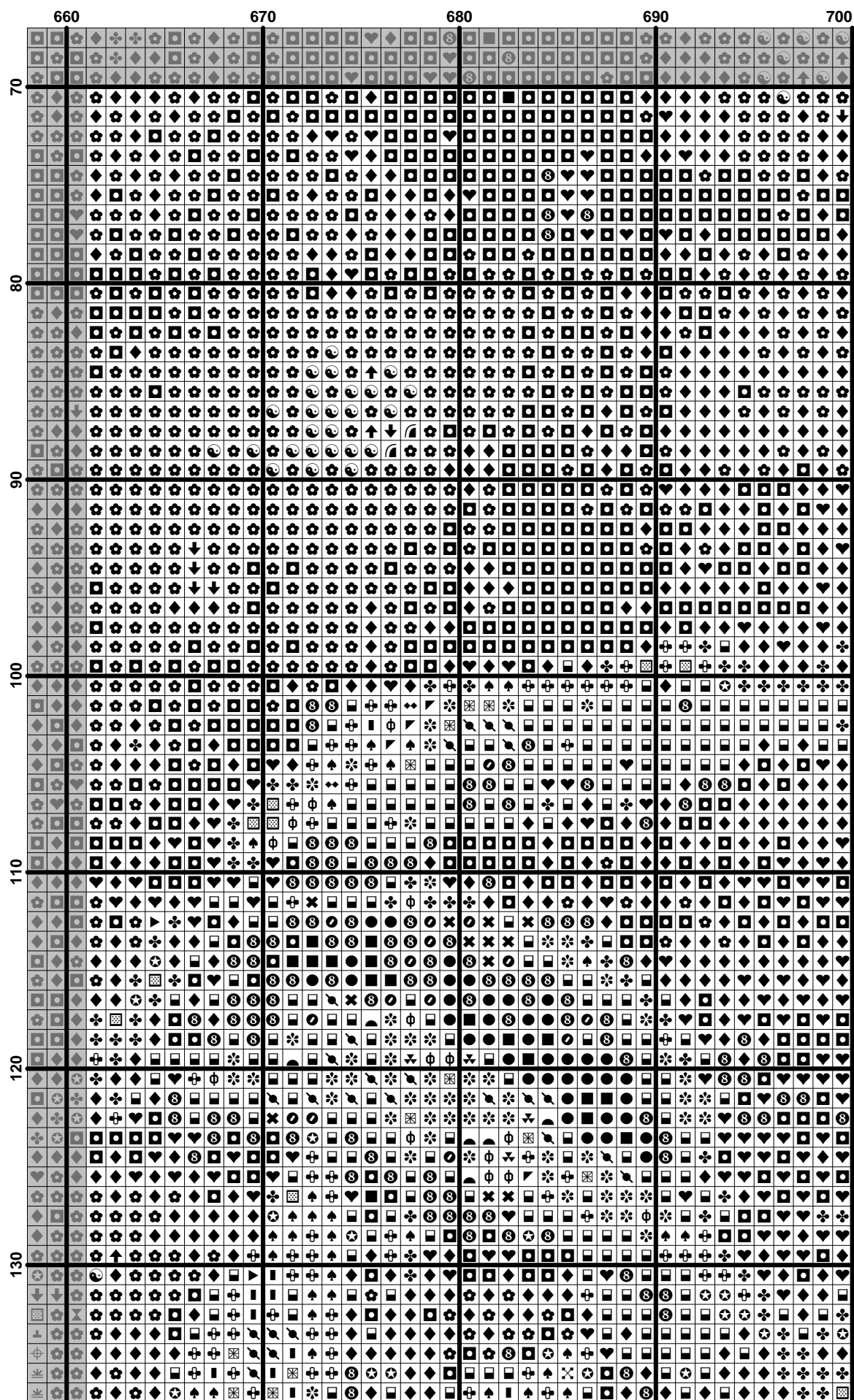


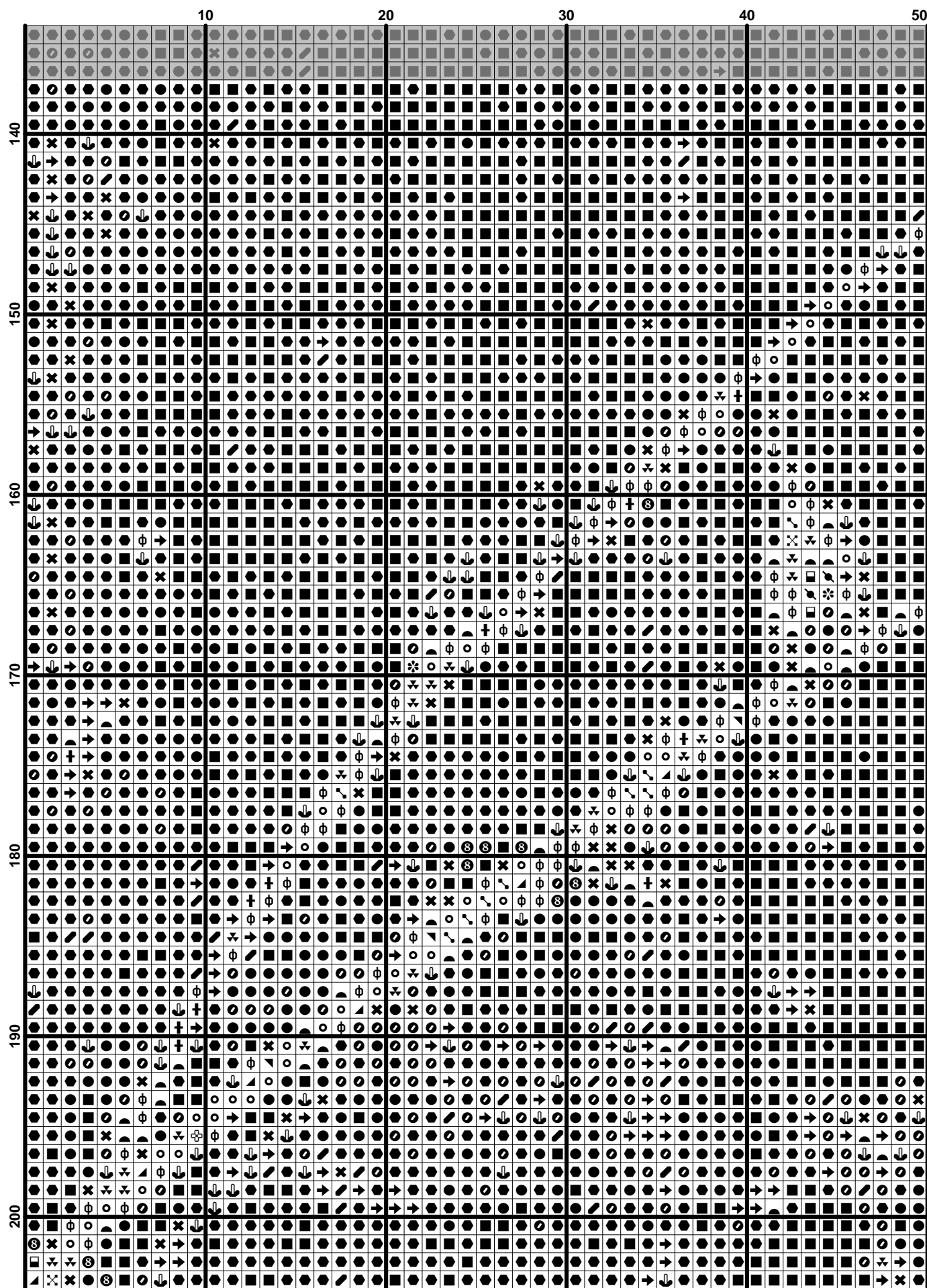


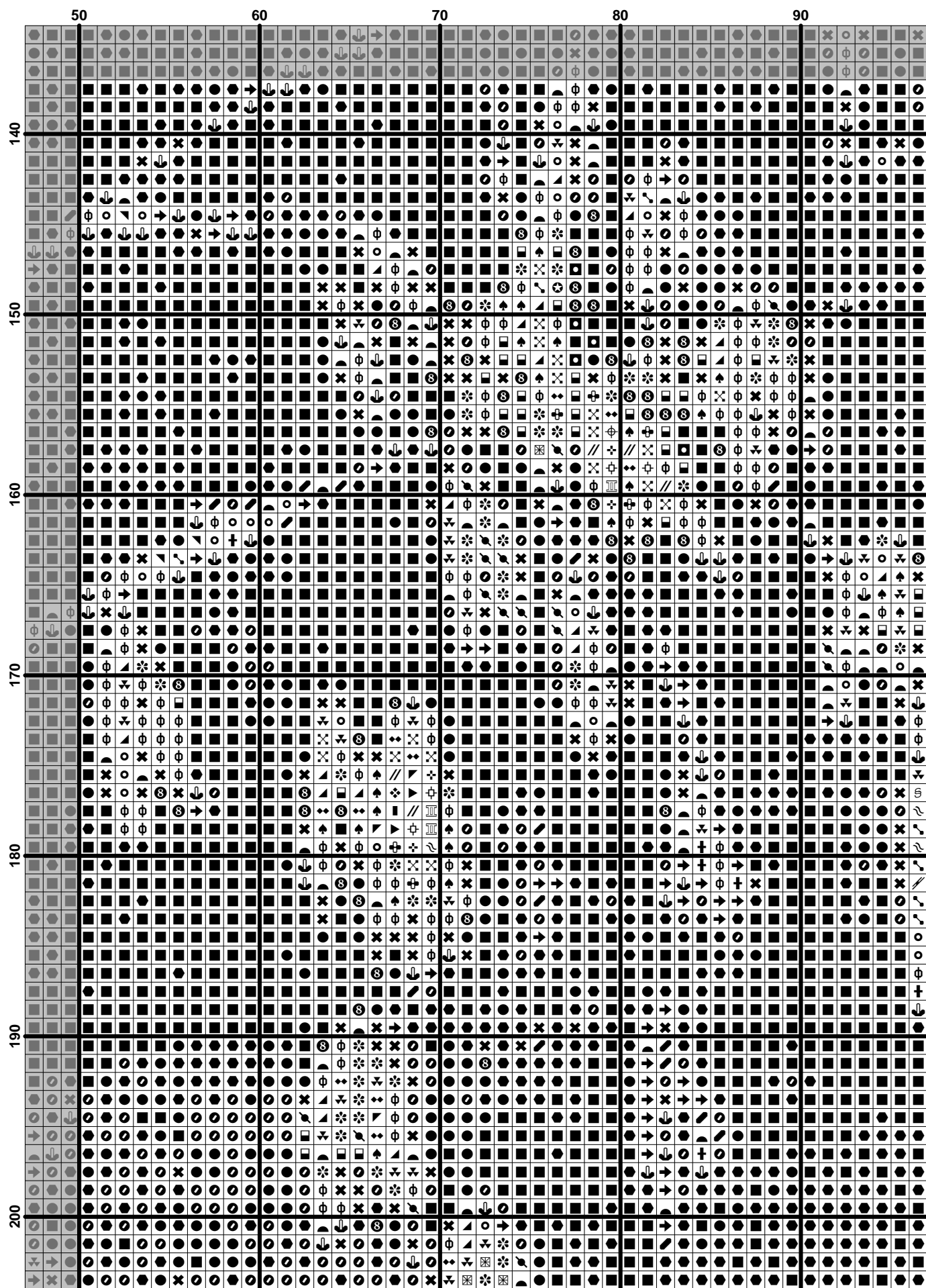




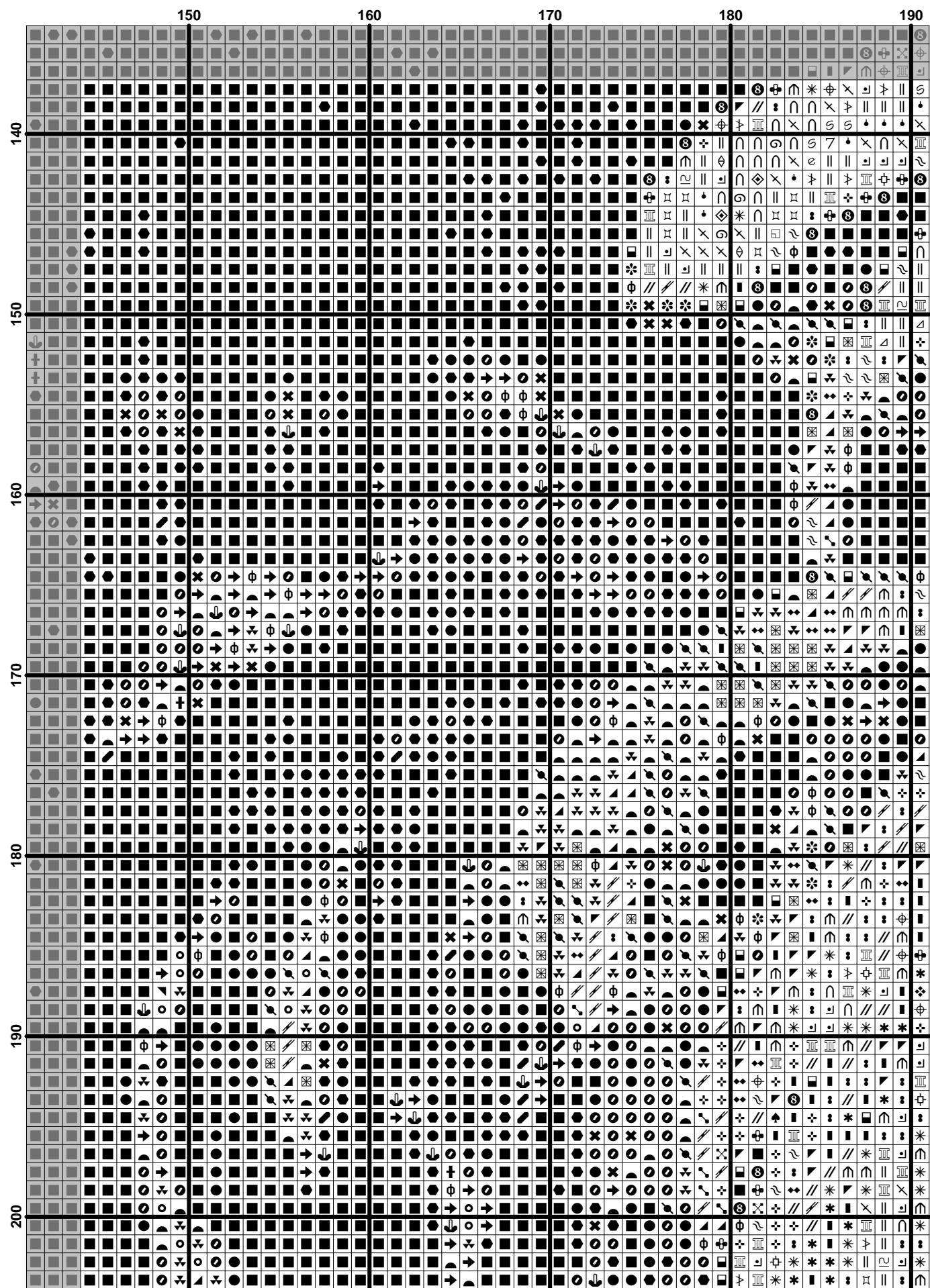


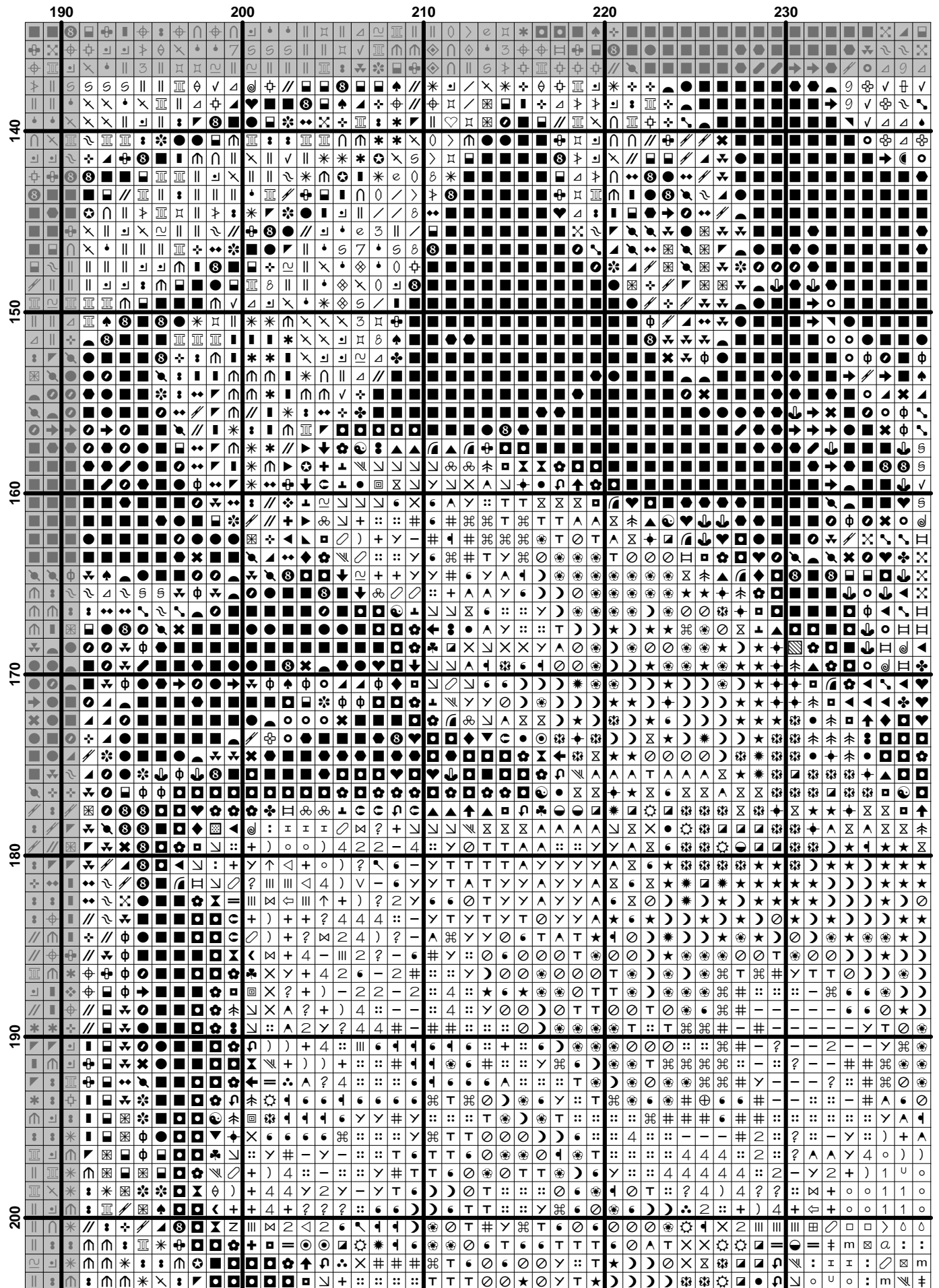






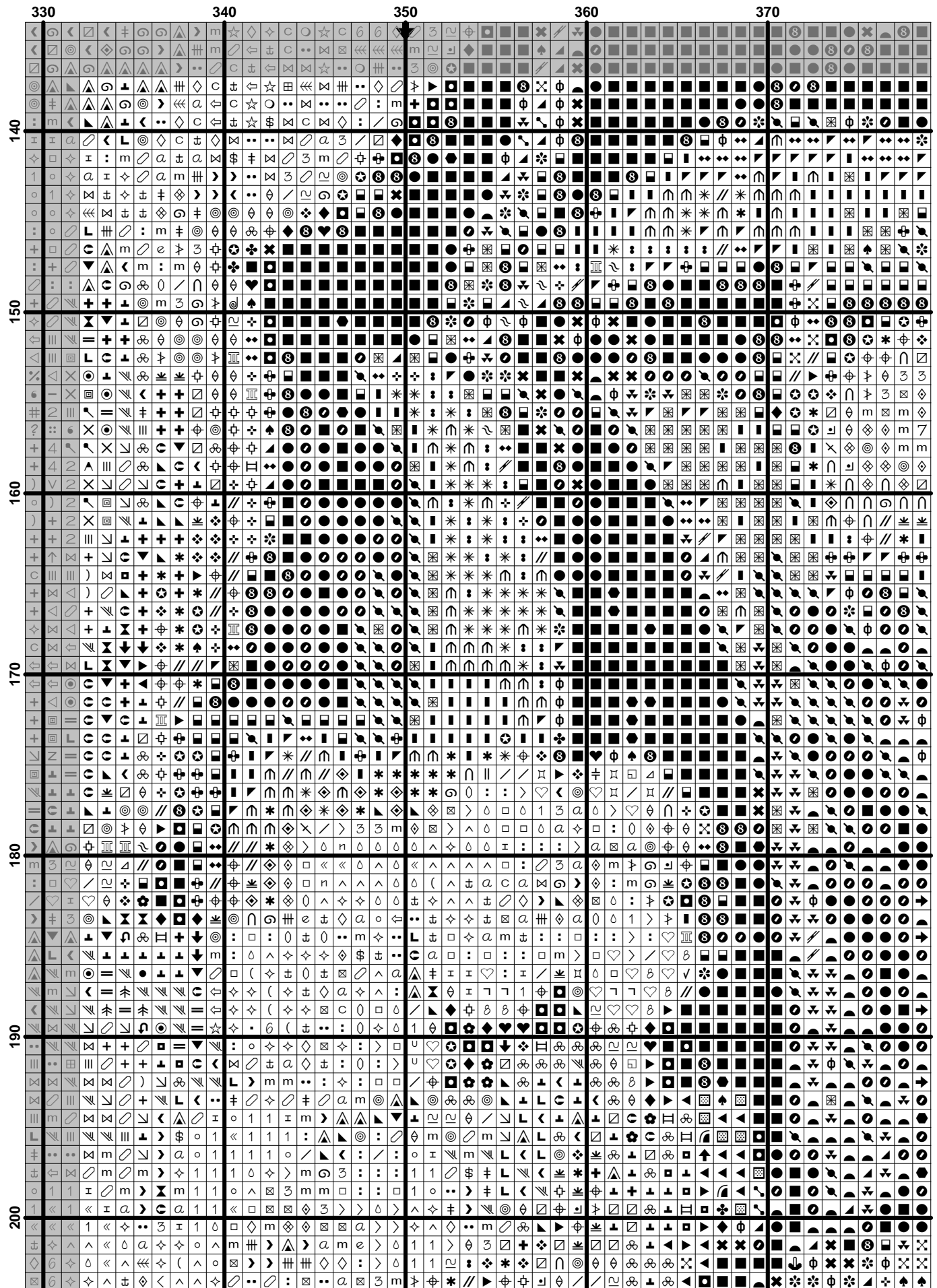


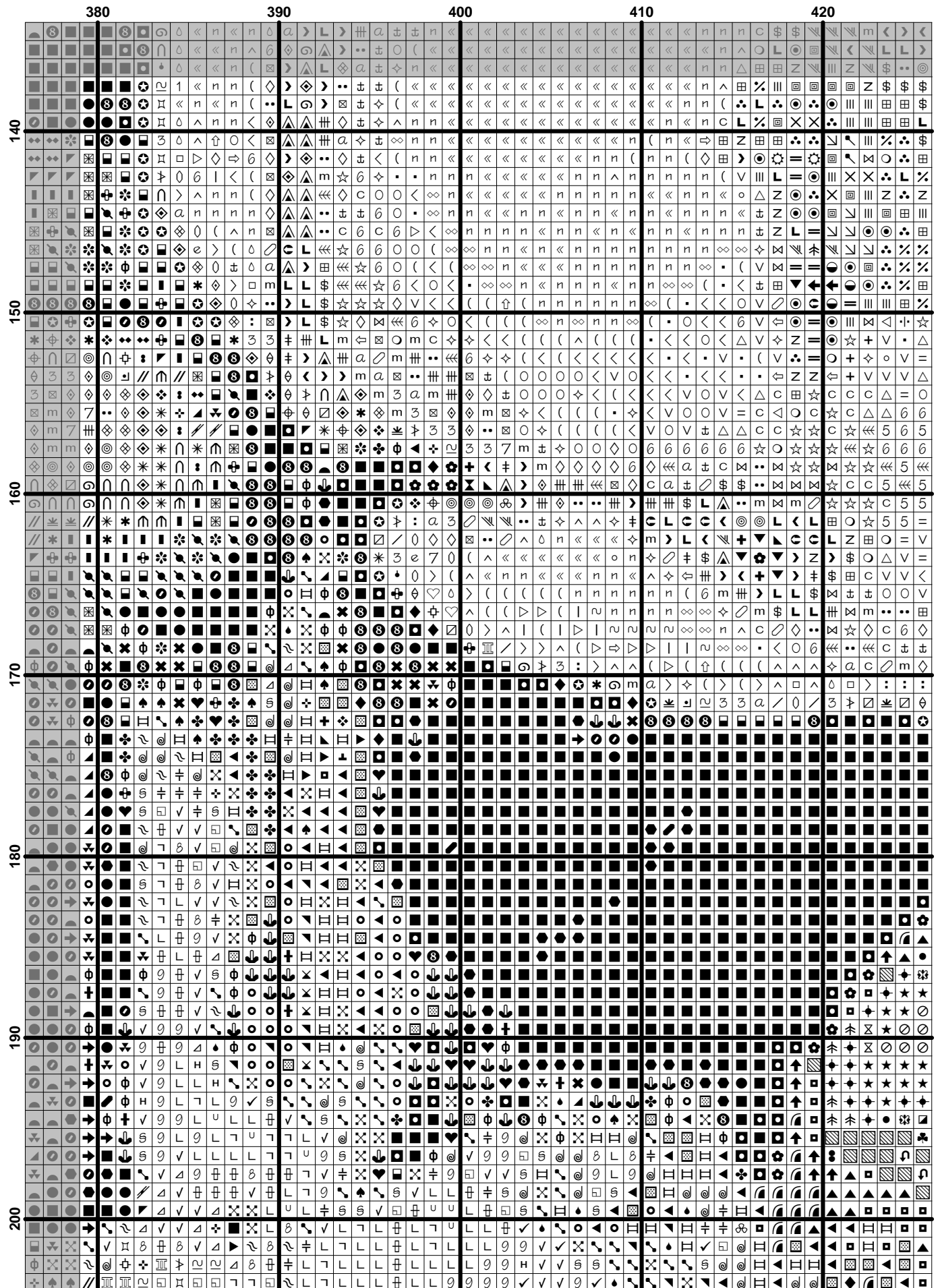


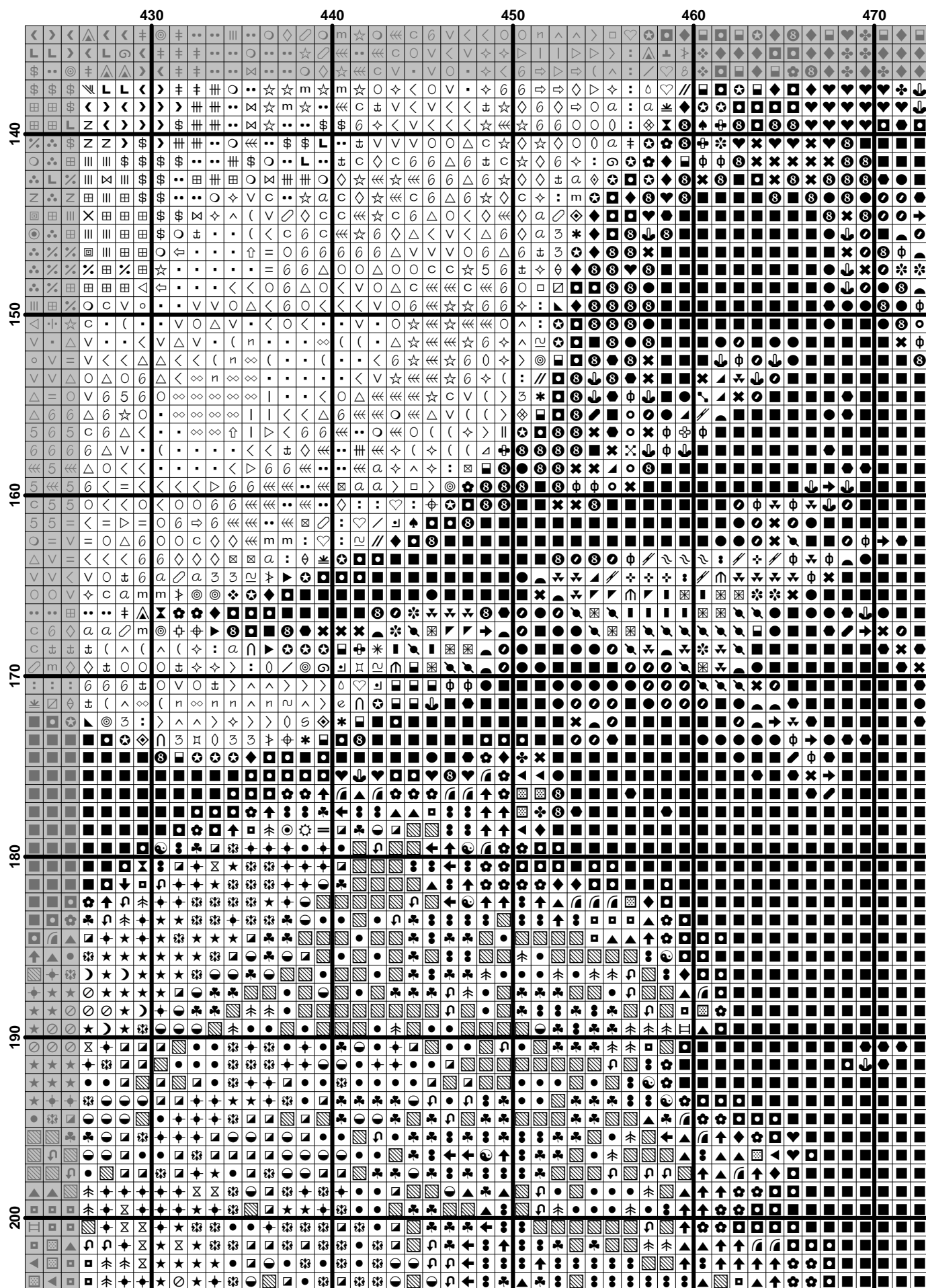


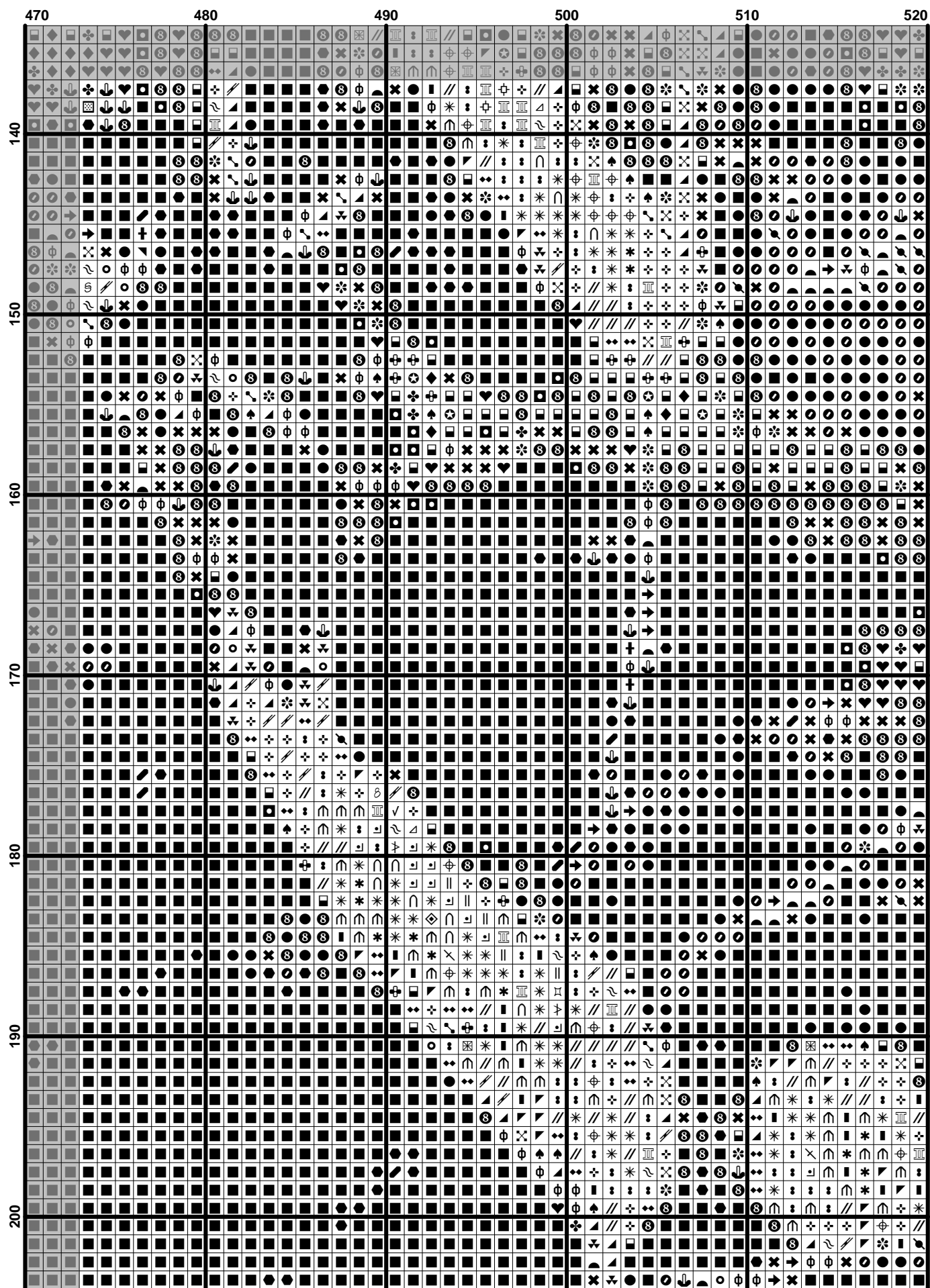
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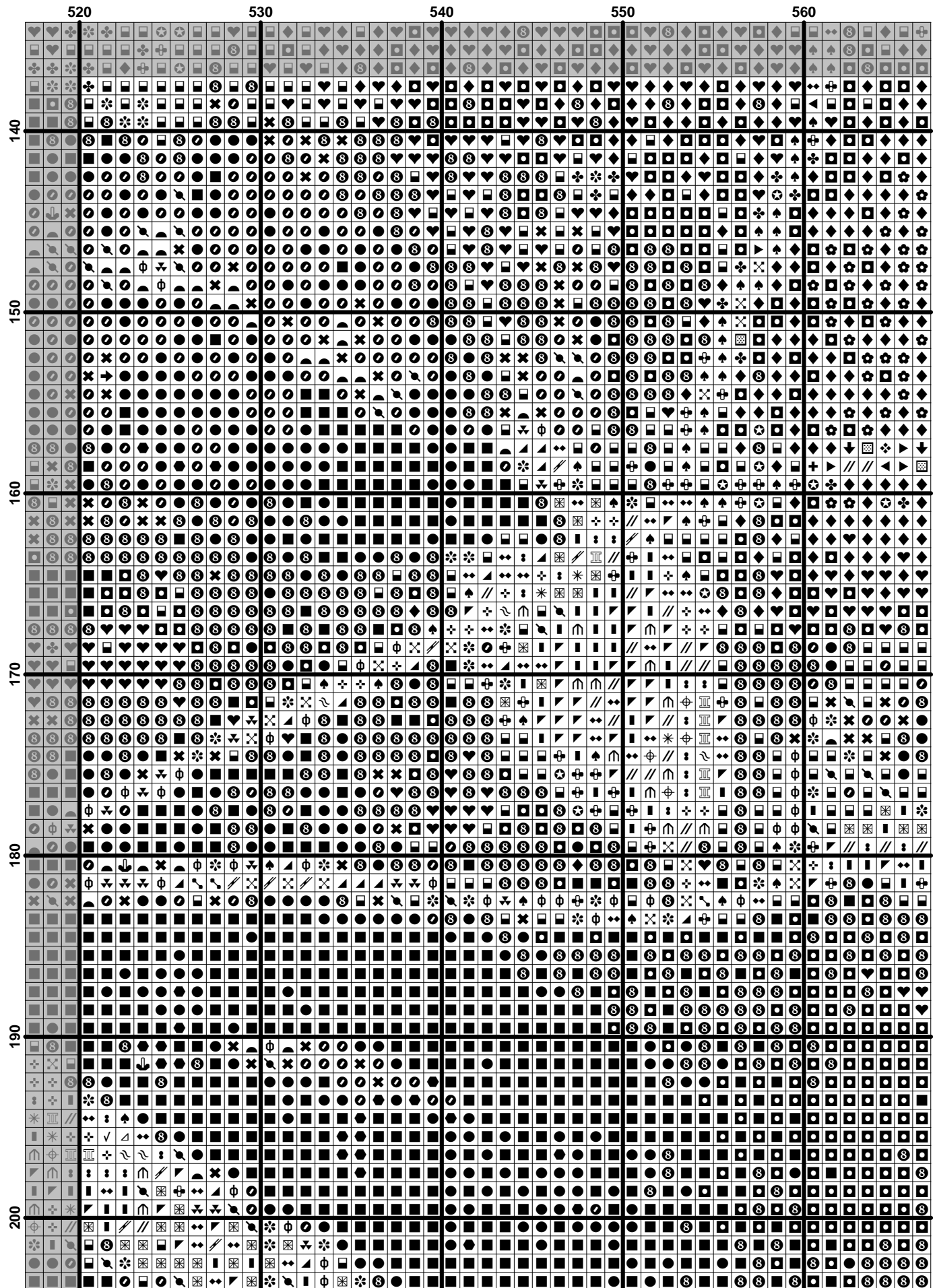
	290	300	310	320	330
140
150
160
170
180
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200

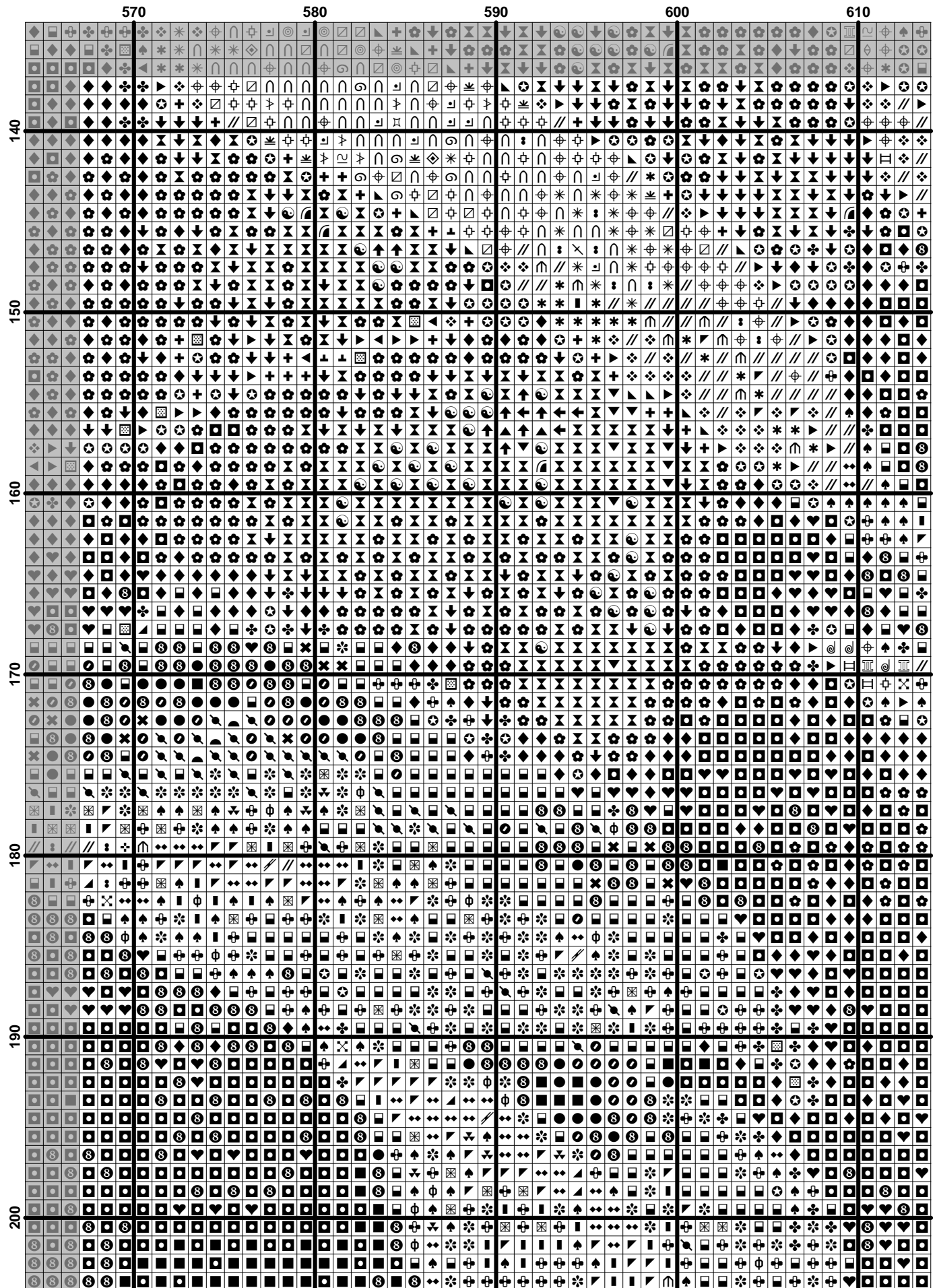


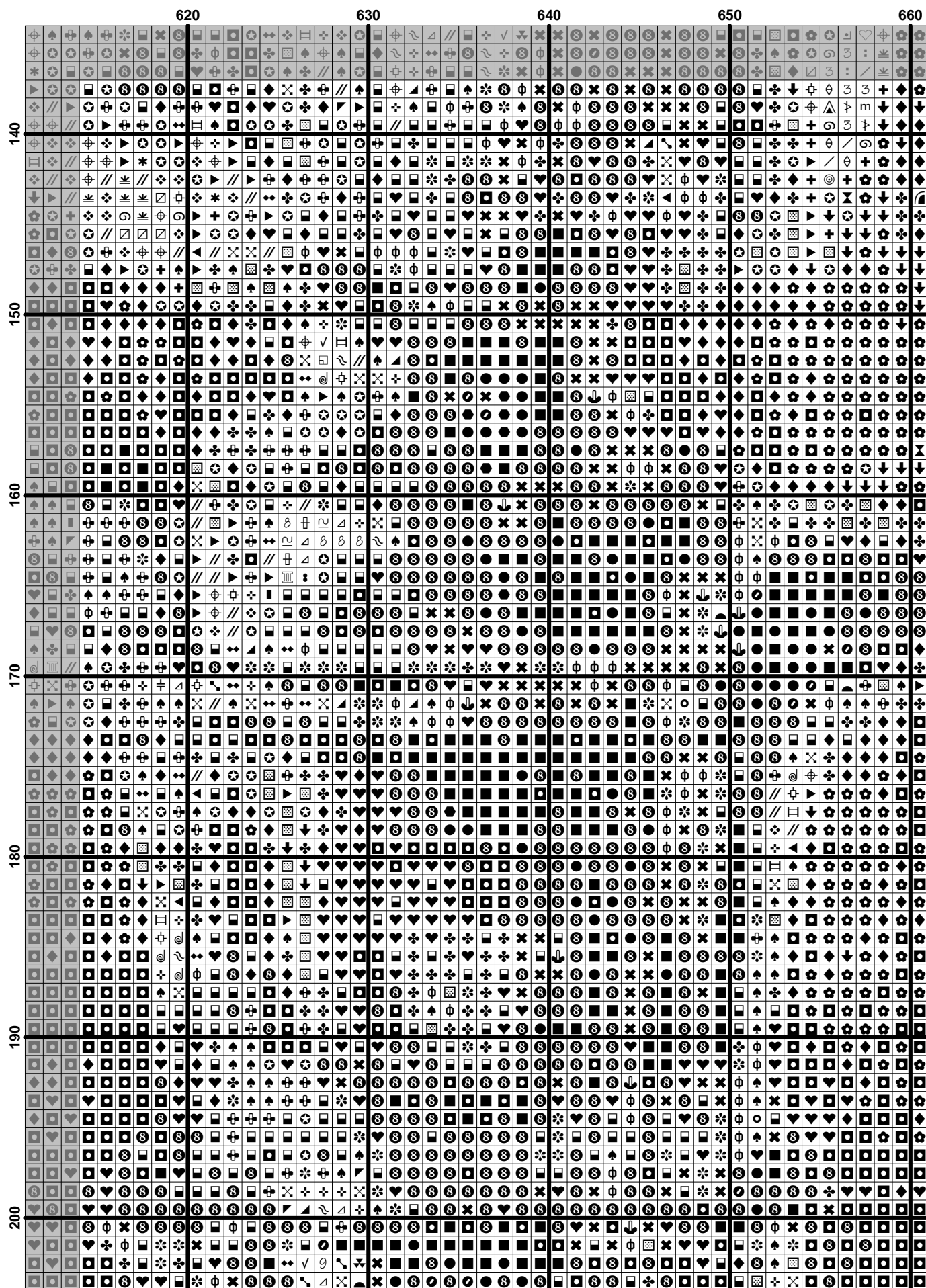


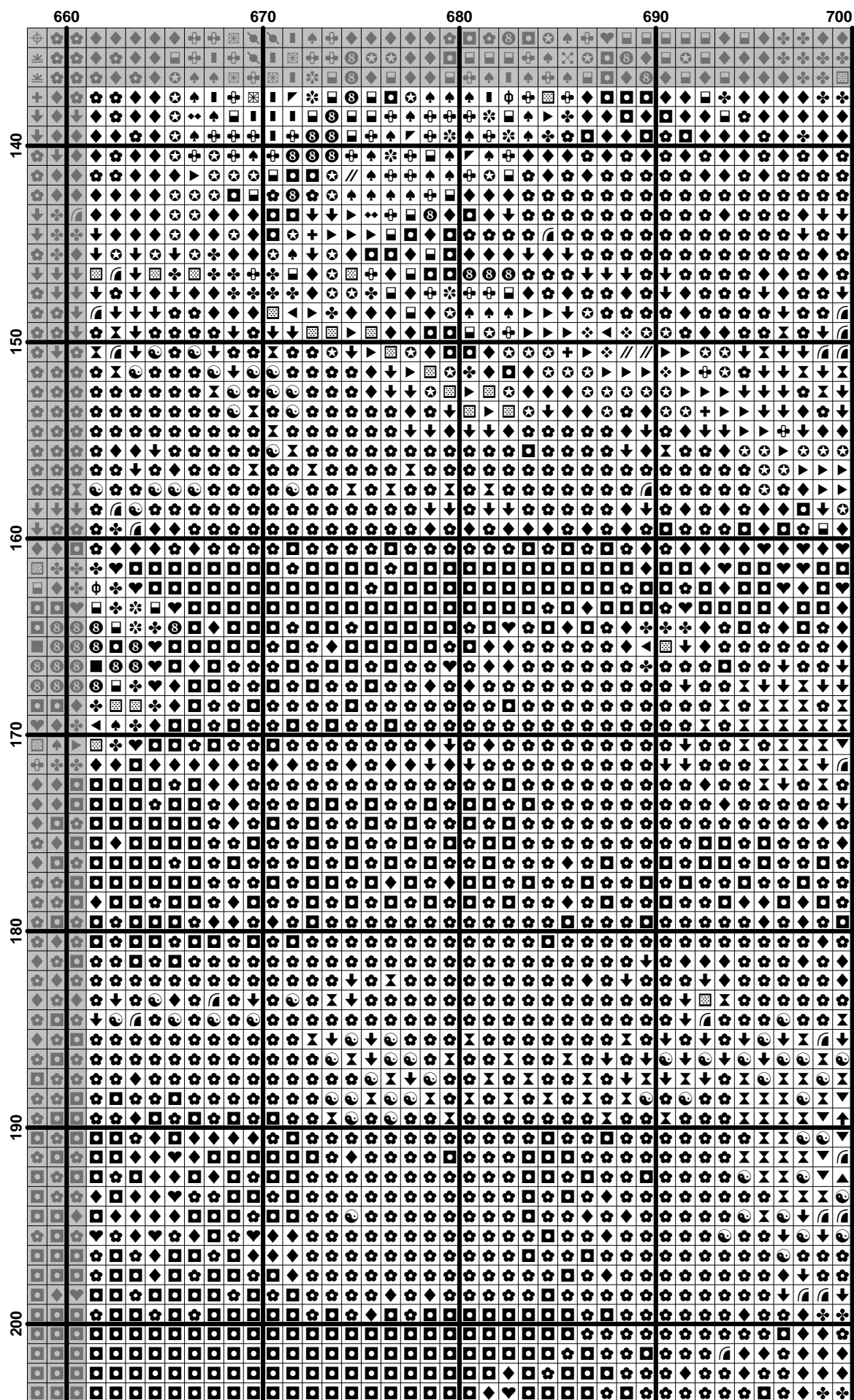


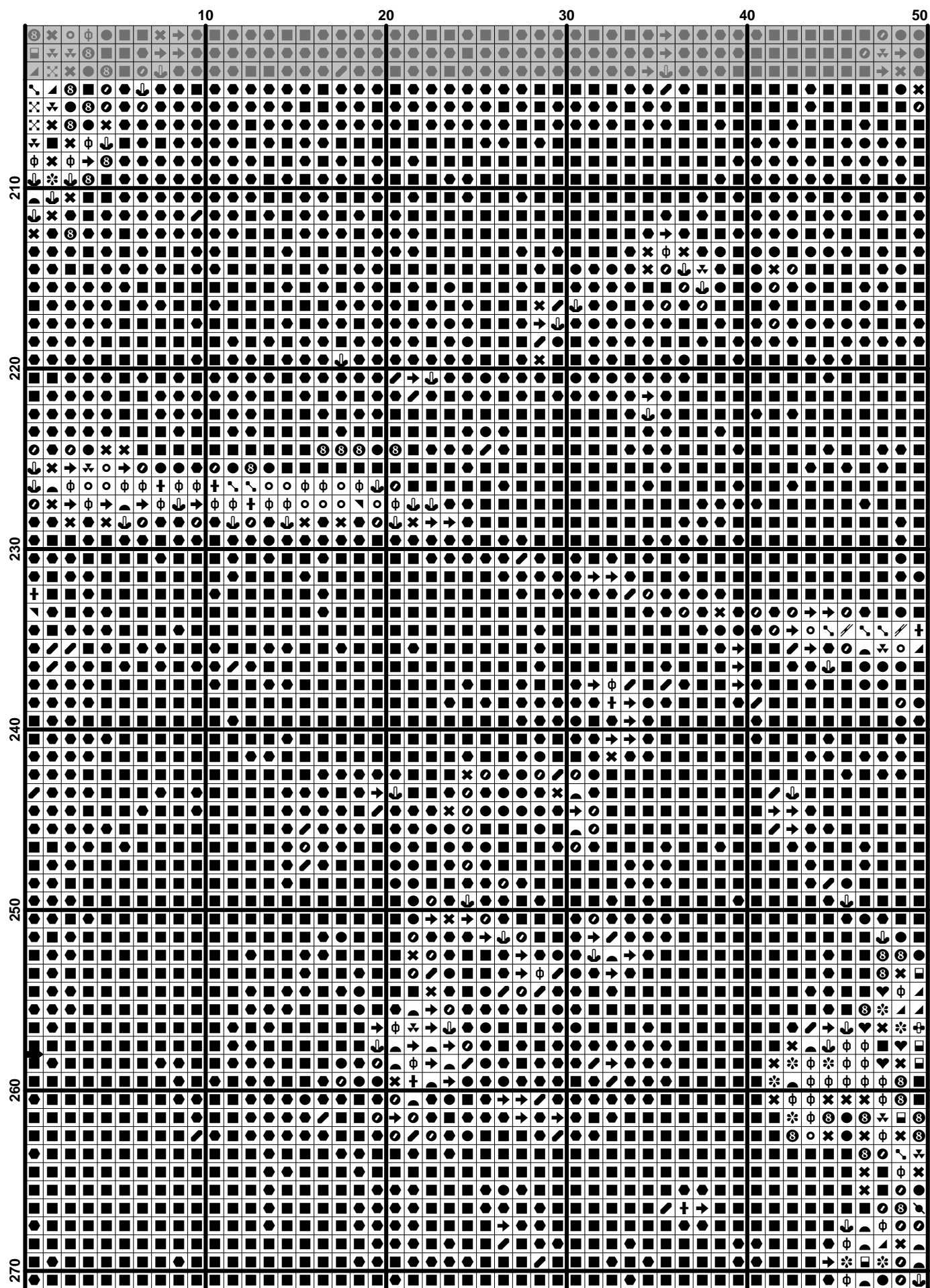


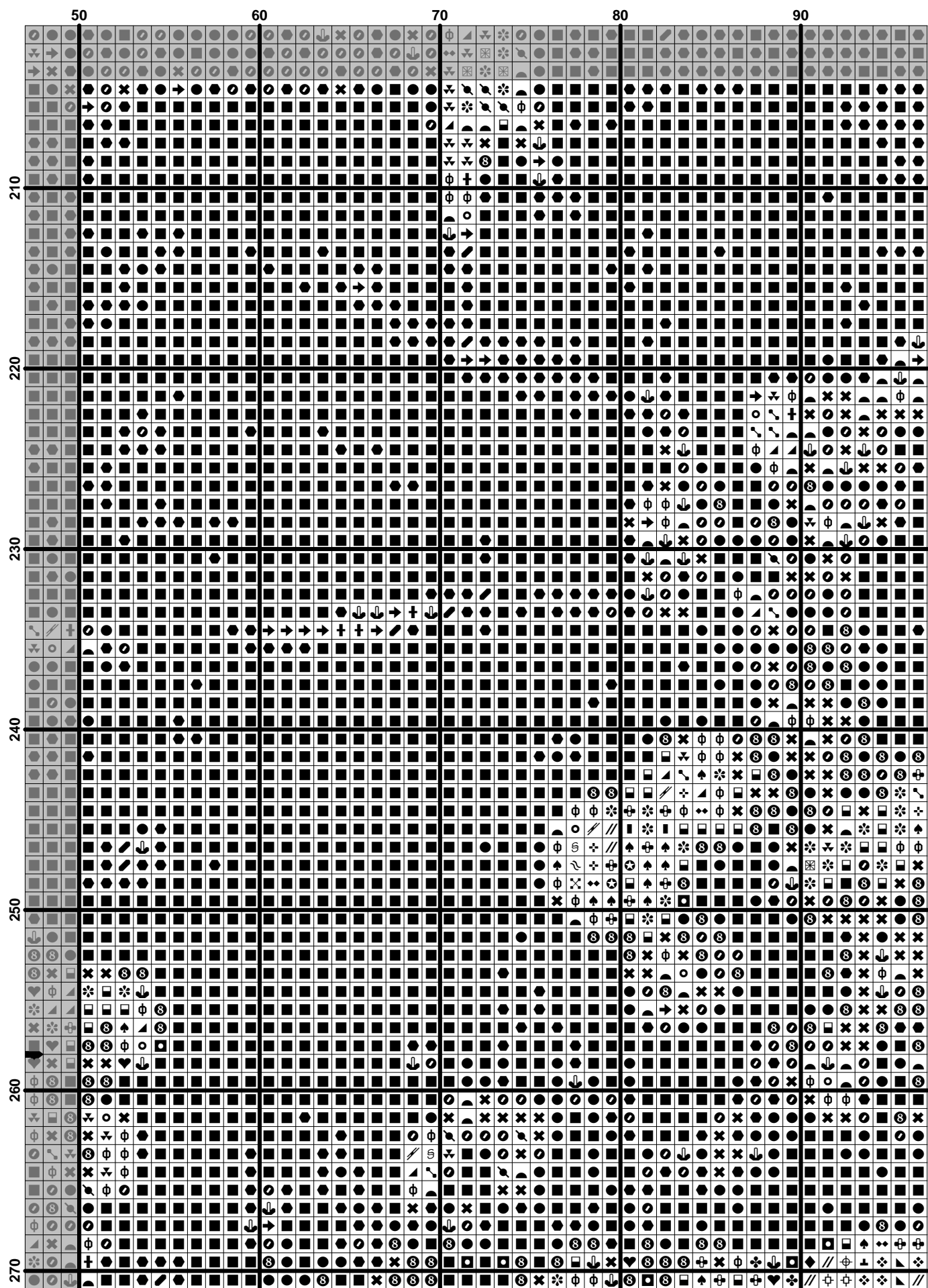


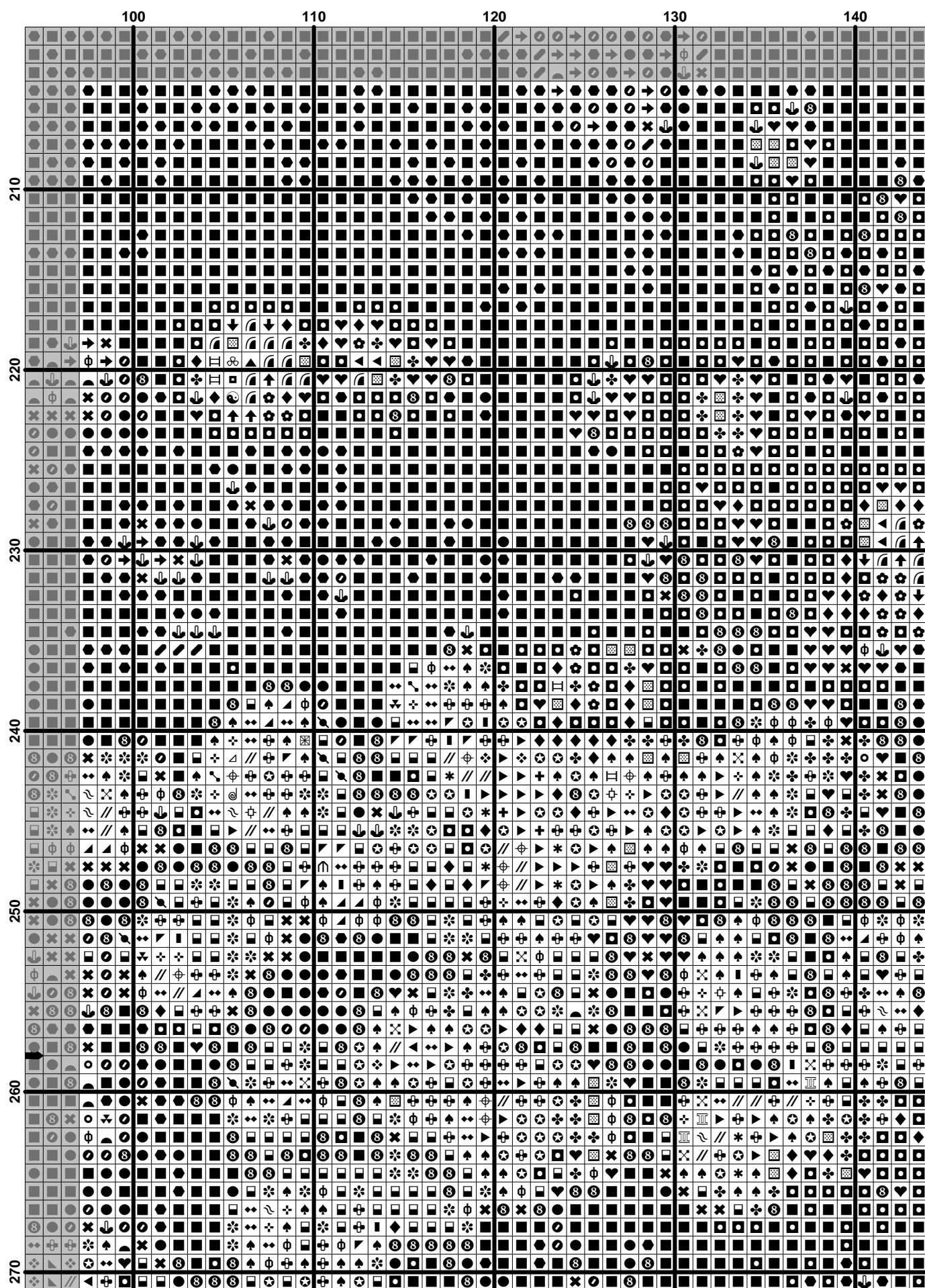


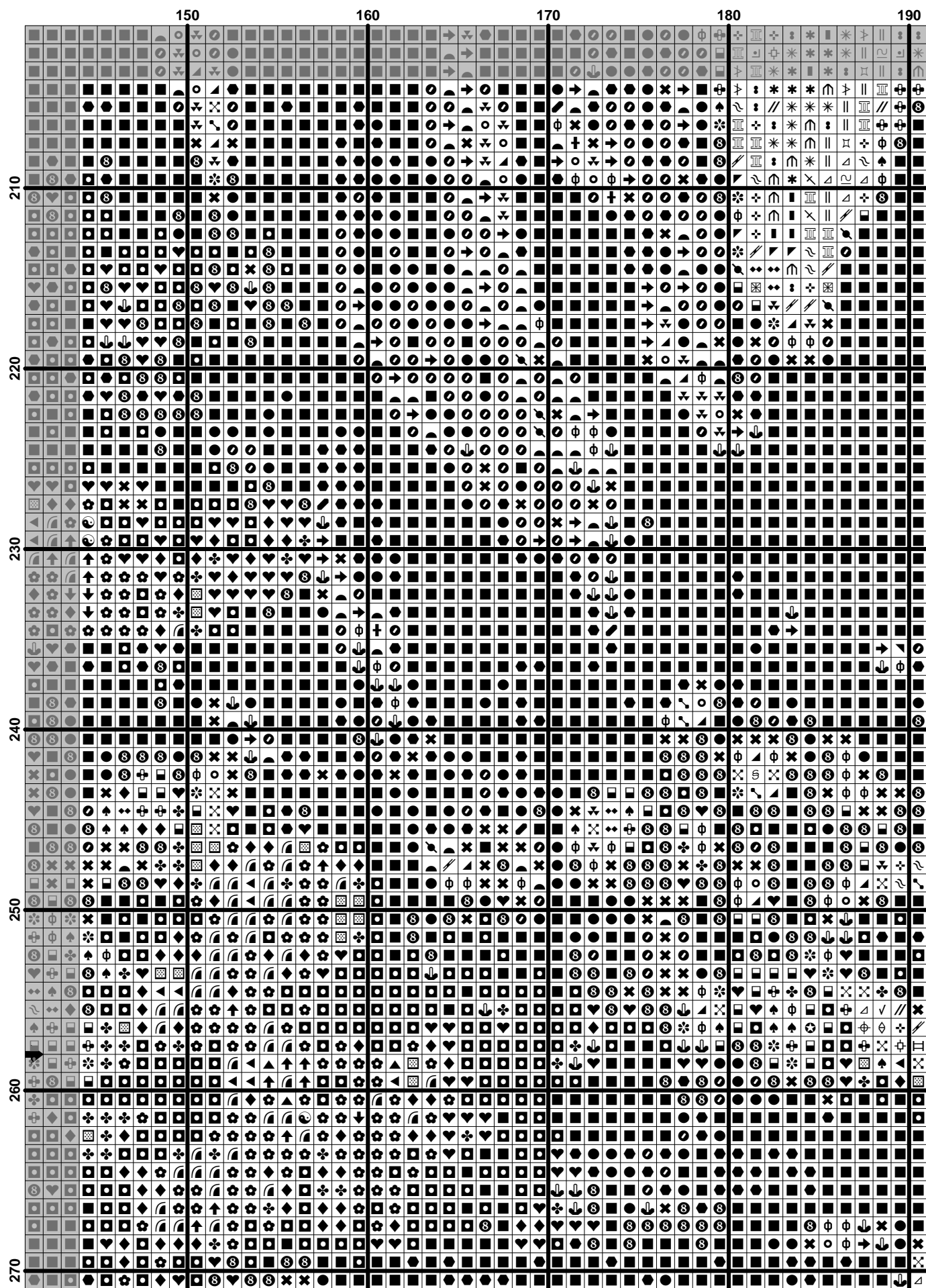


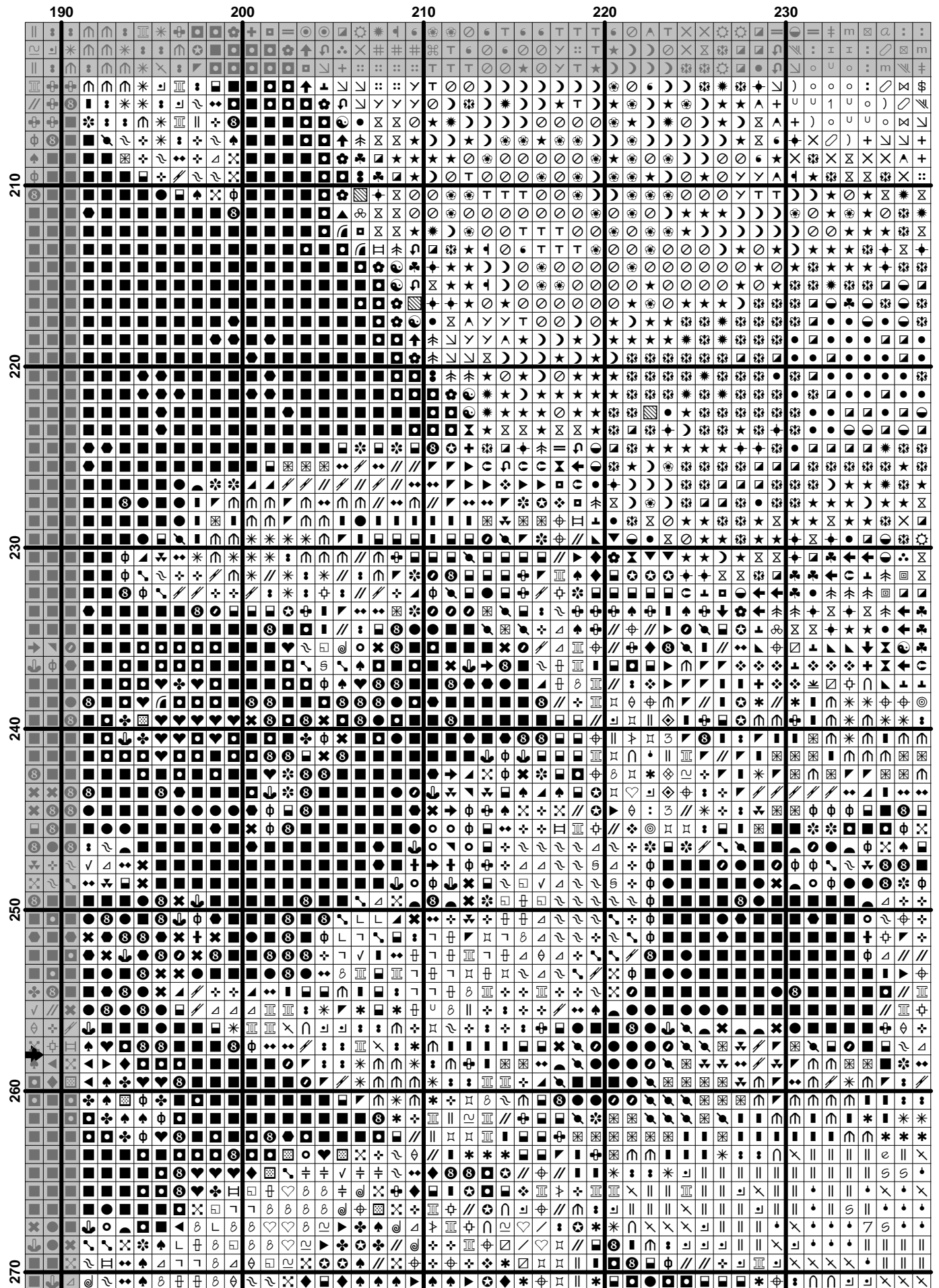








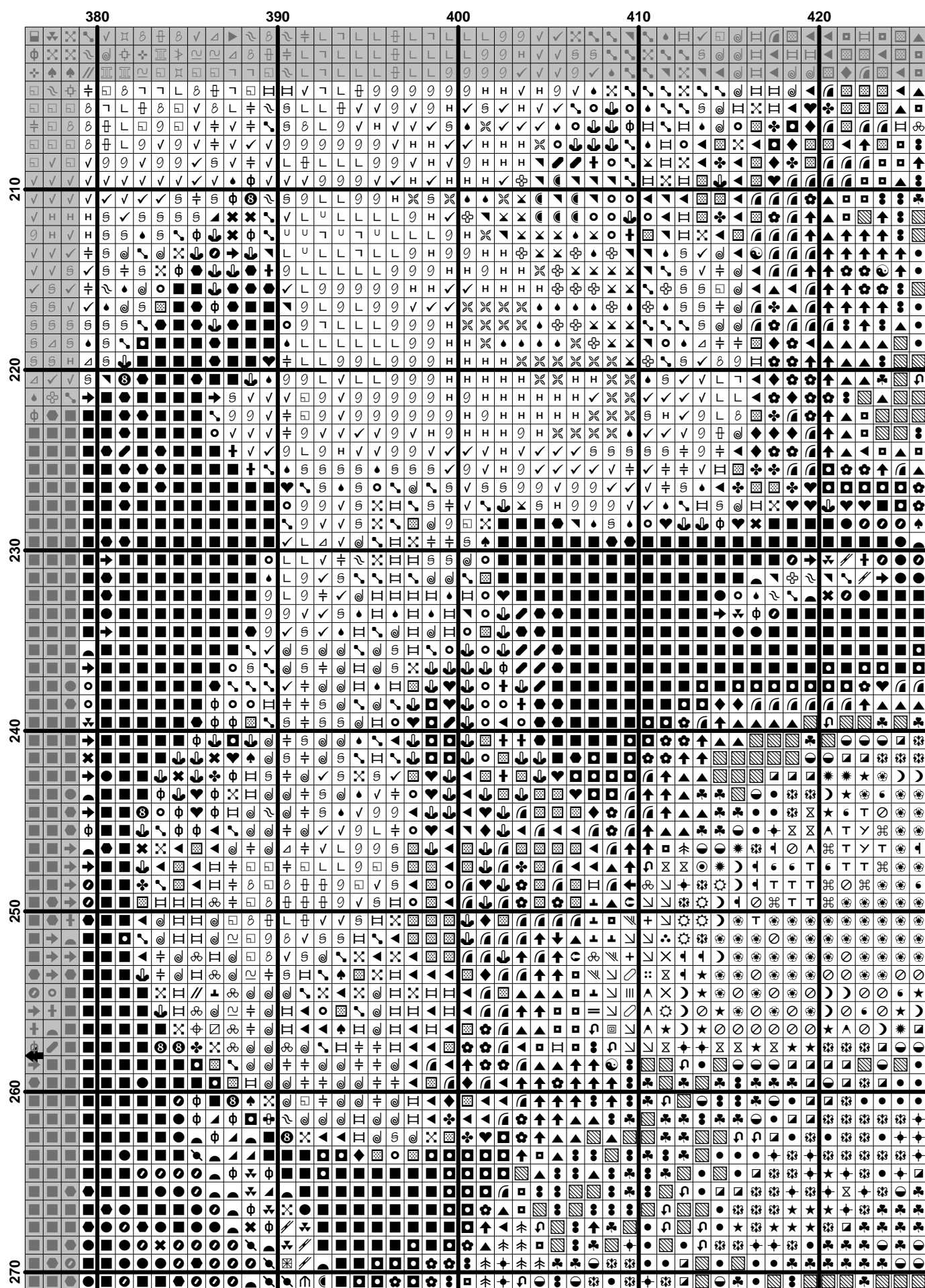


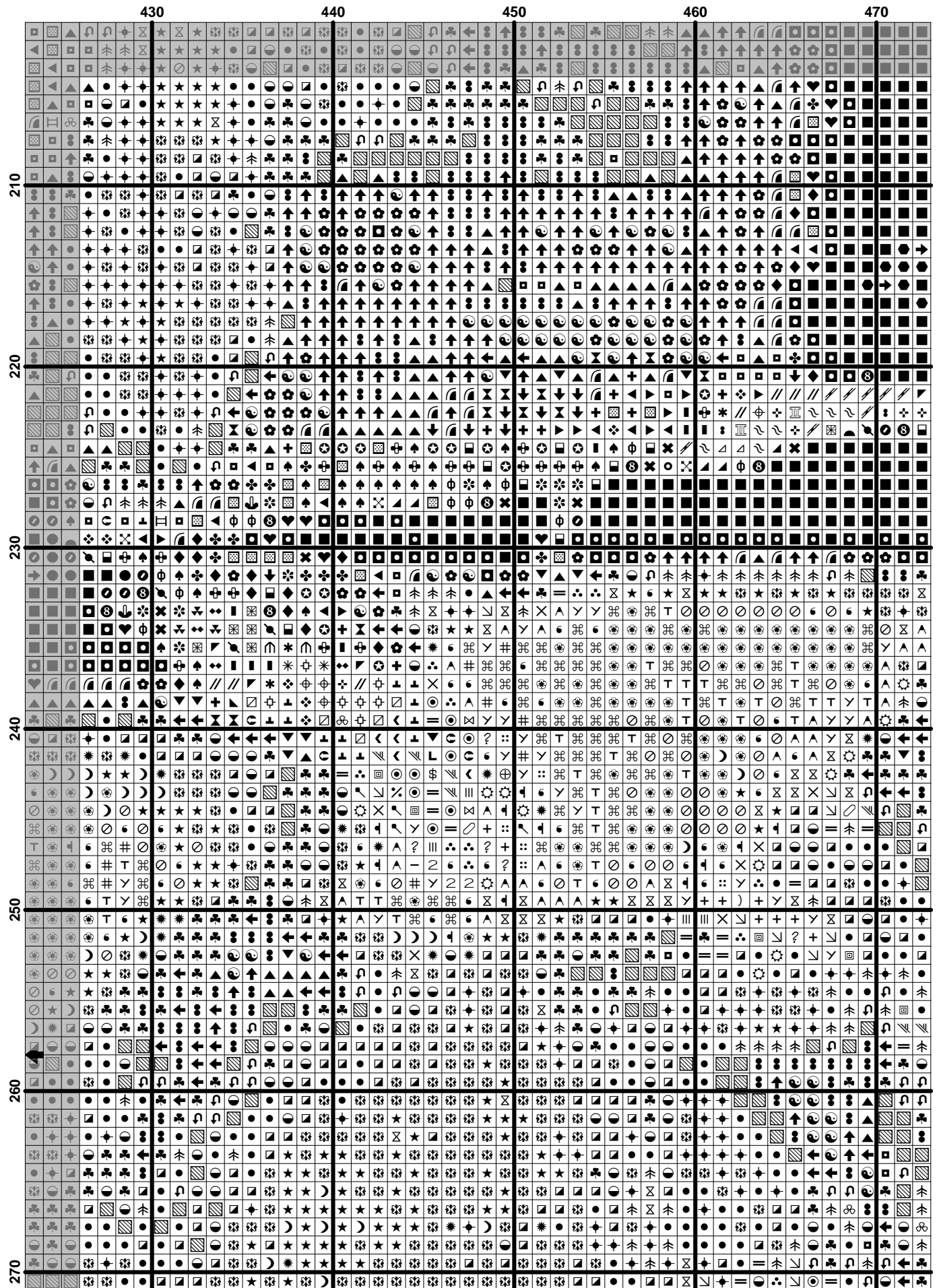


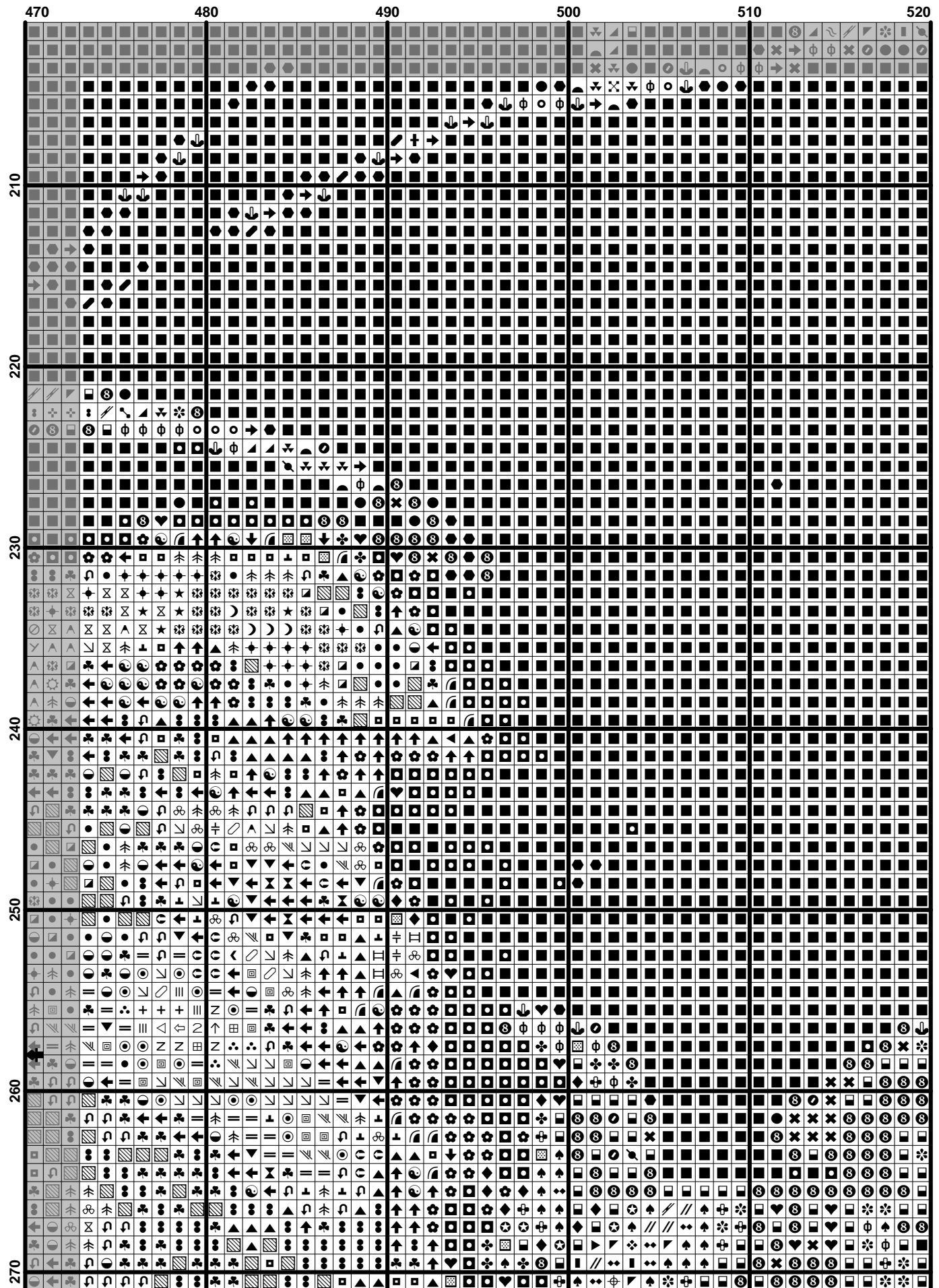
$$(66) \quad \text{[...]} \quad (67)$$

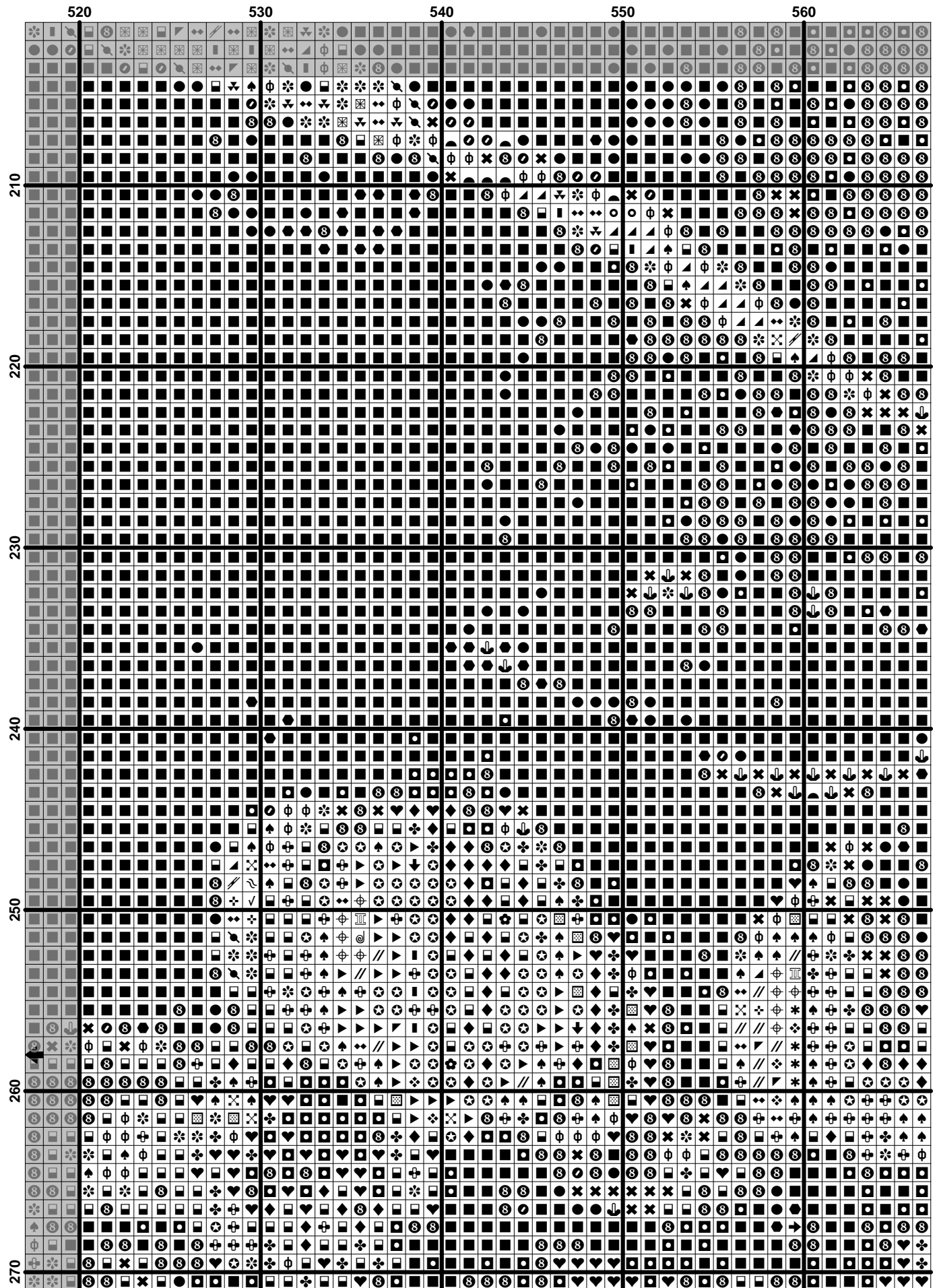
$$(67) \quad \text{[...]} \quad (68)$$

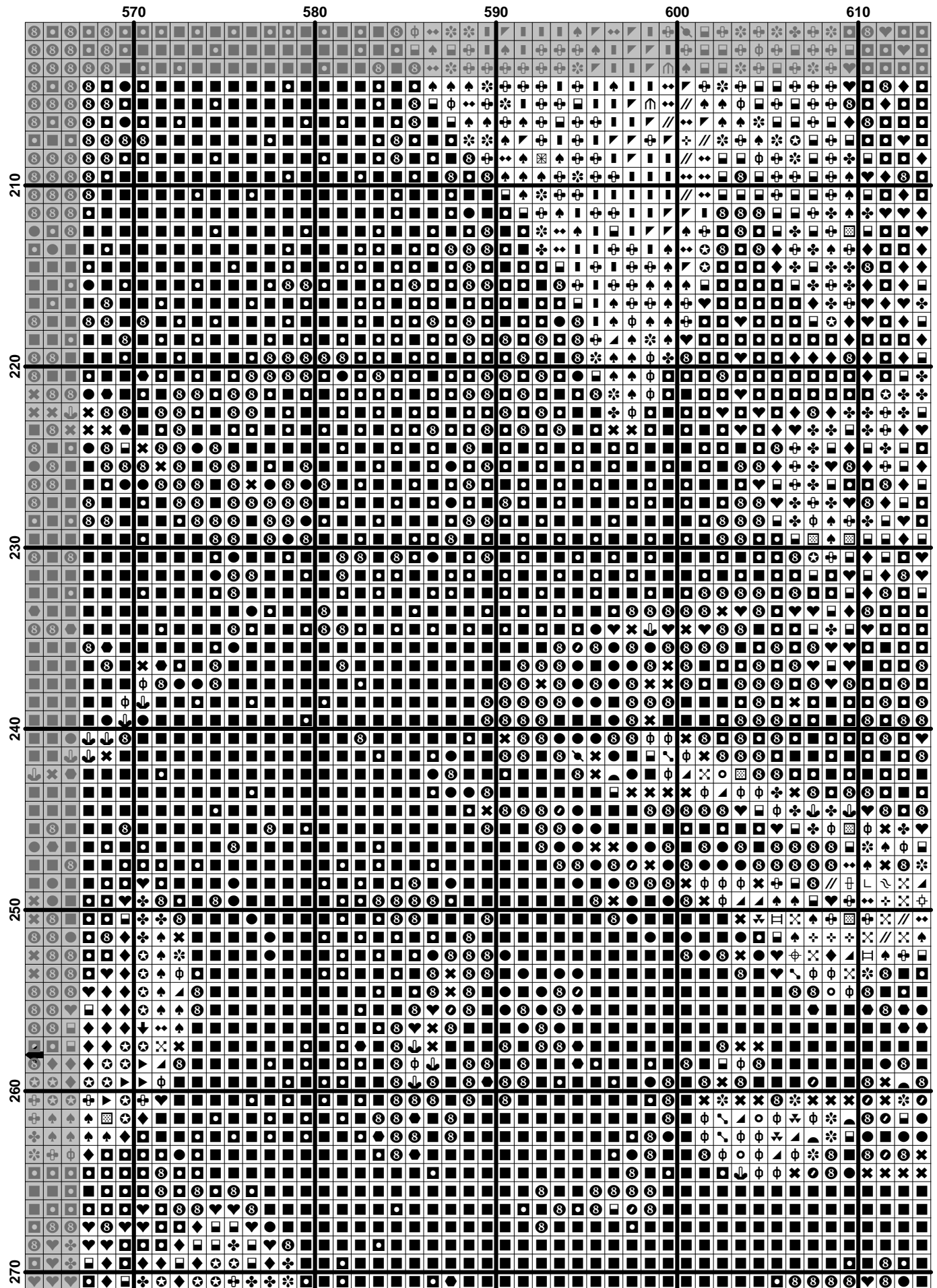
	330	340	350	360	370
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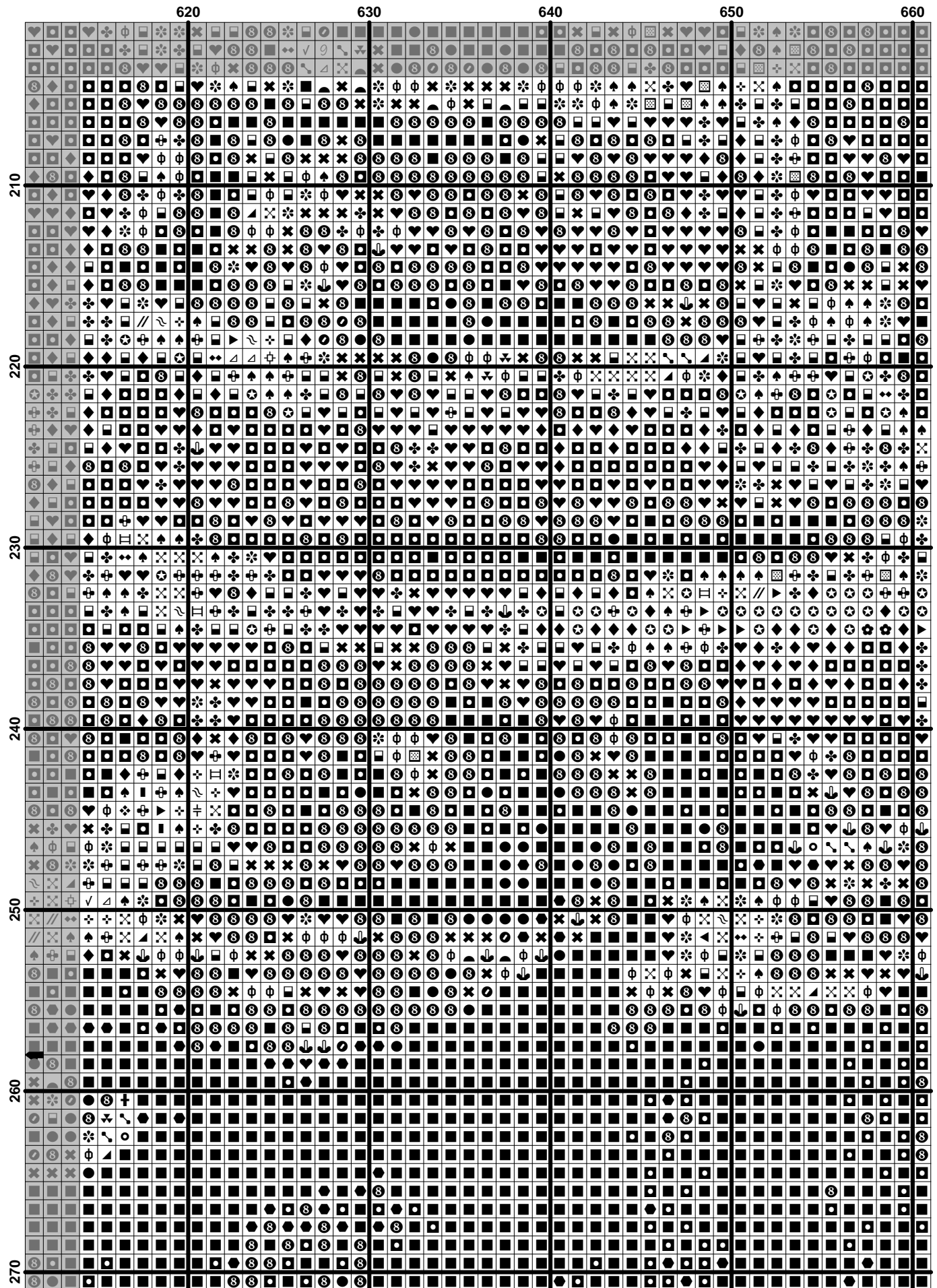


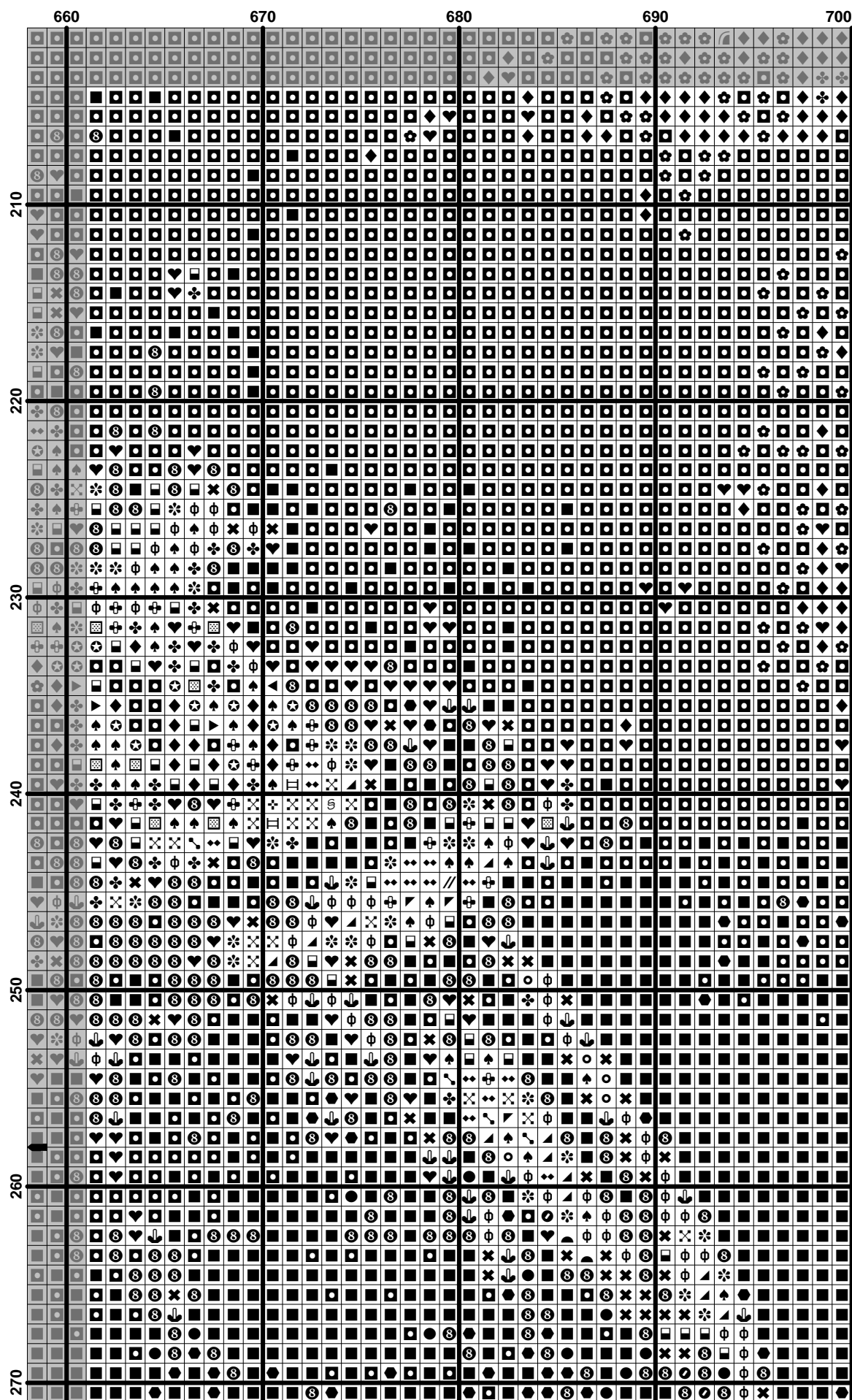


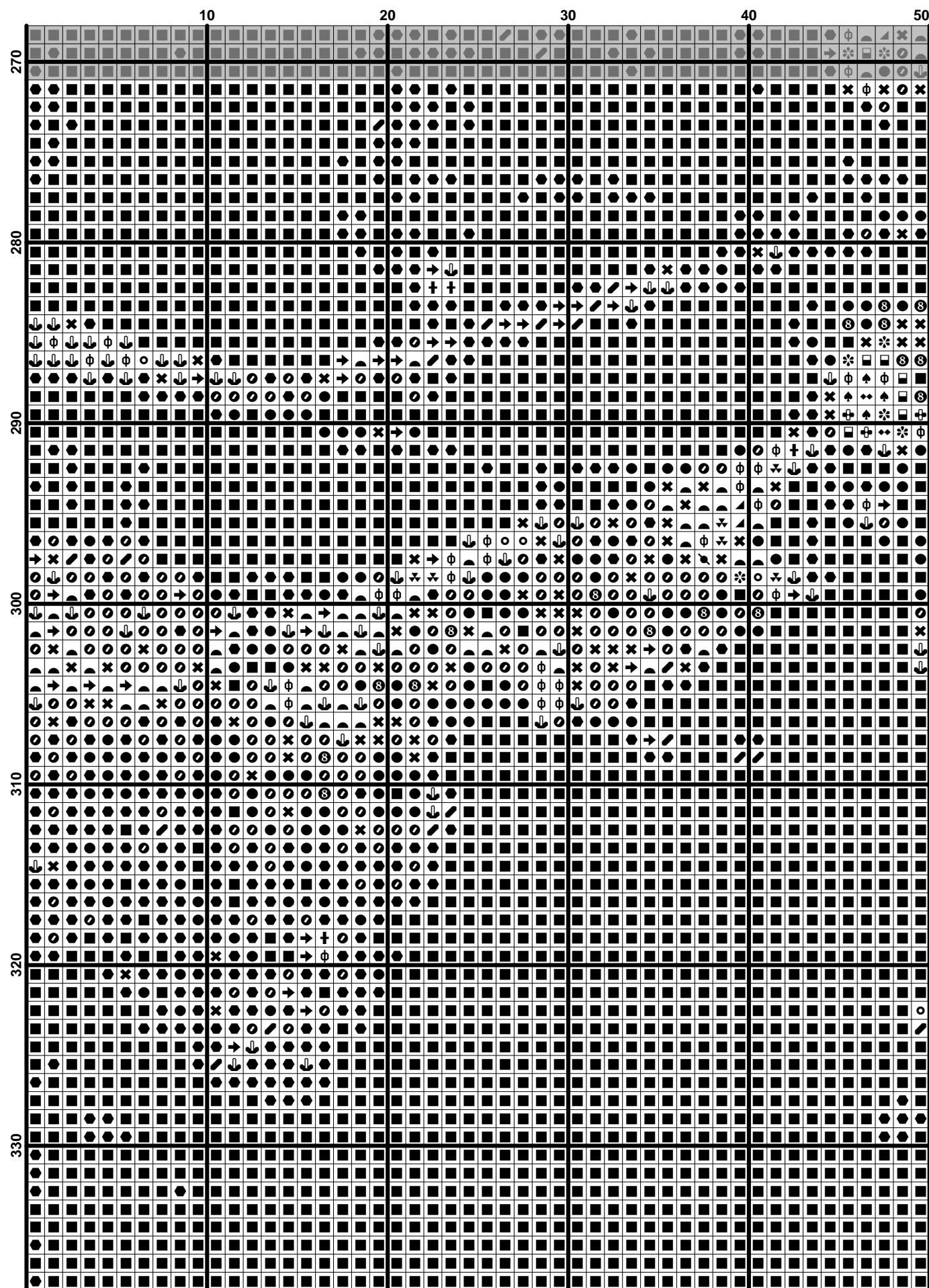


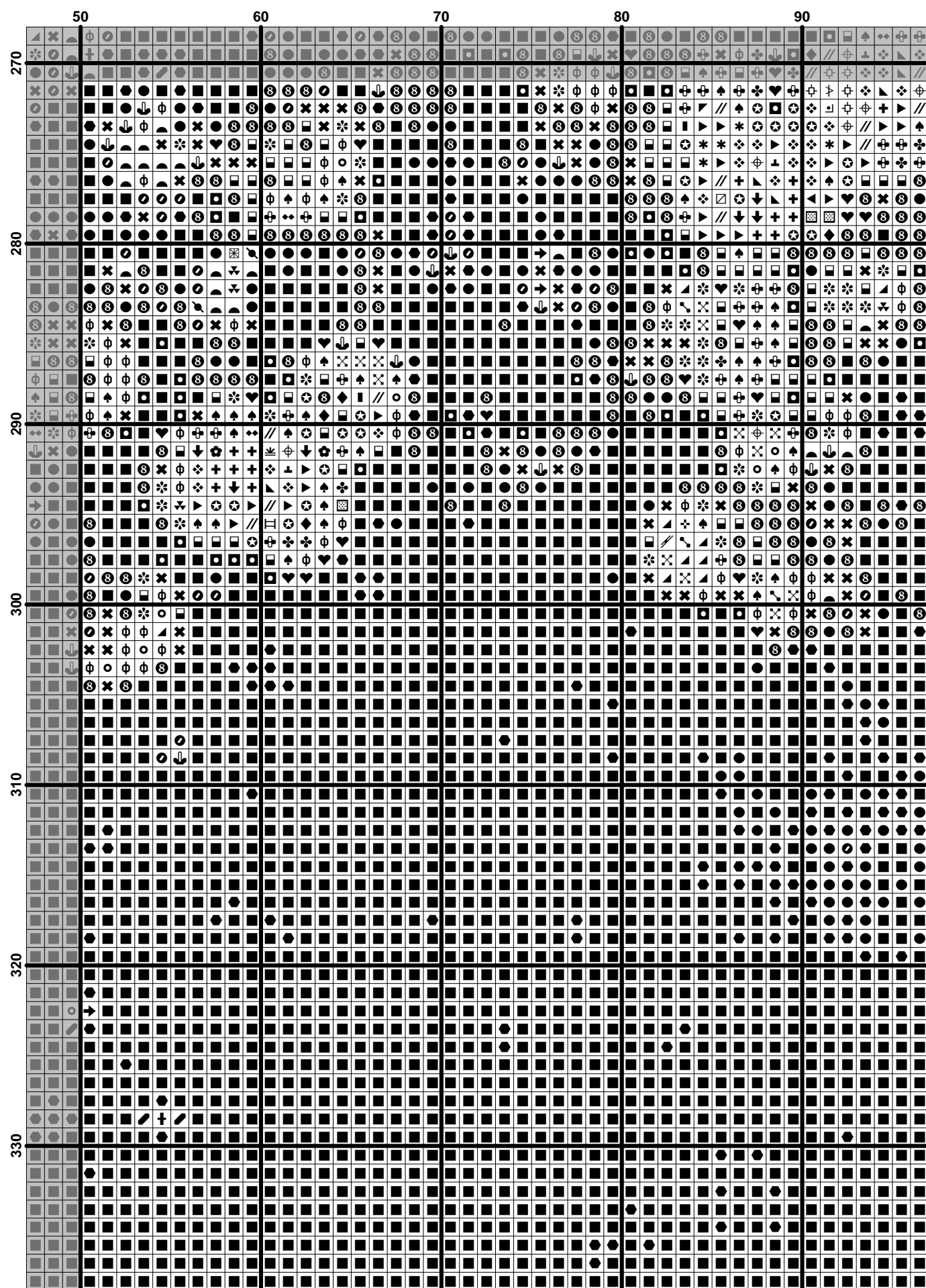


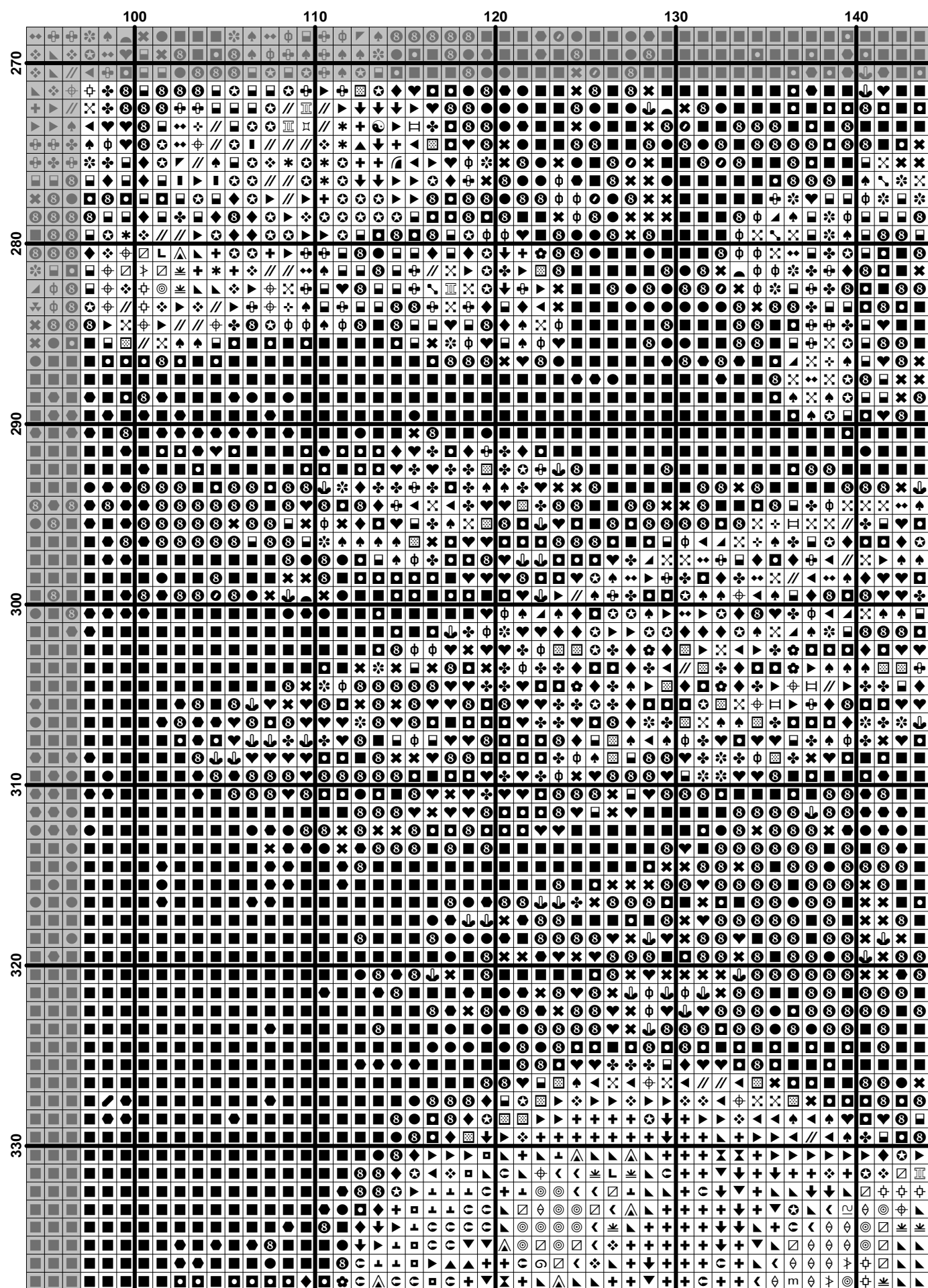


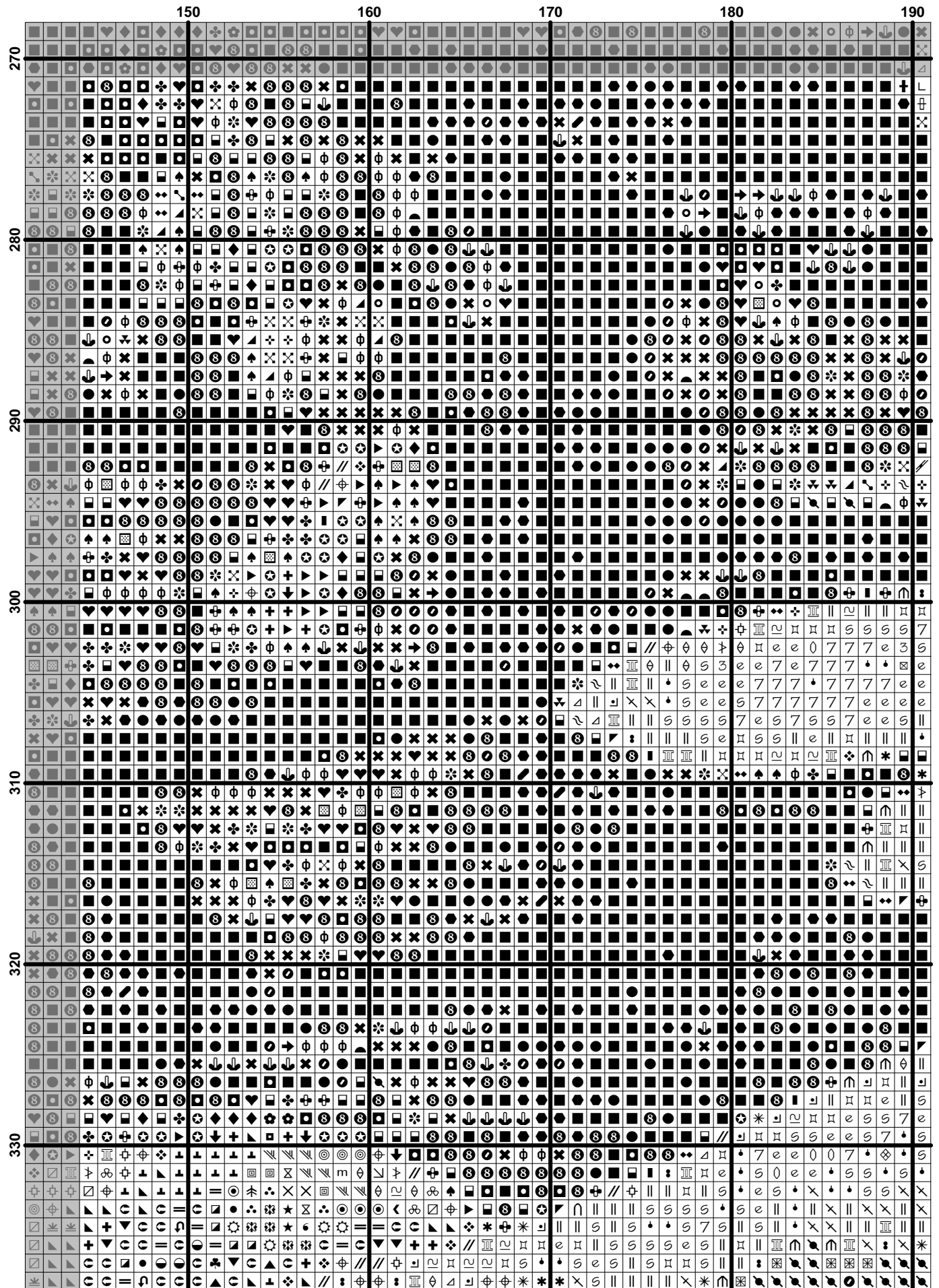


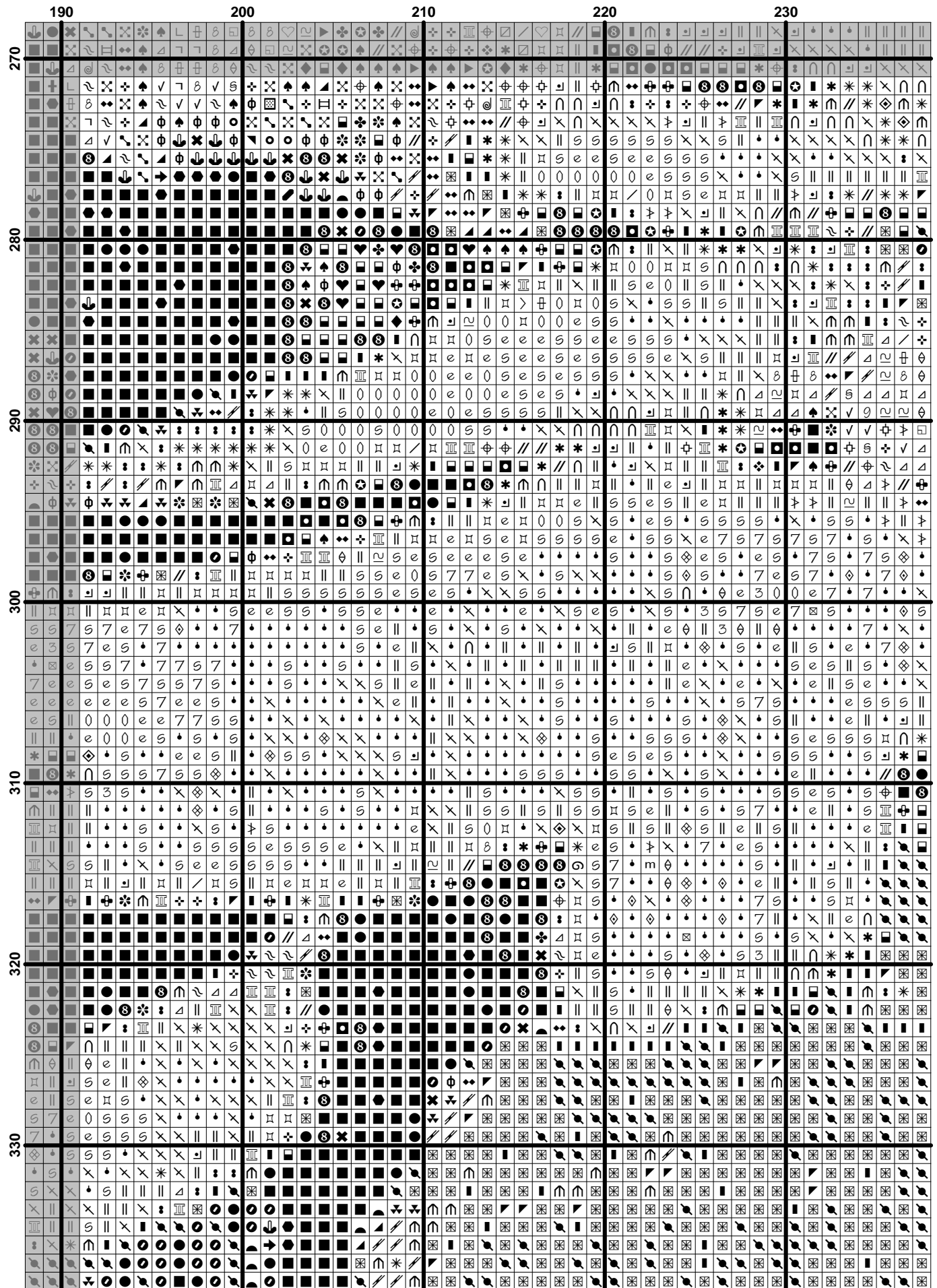


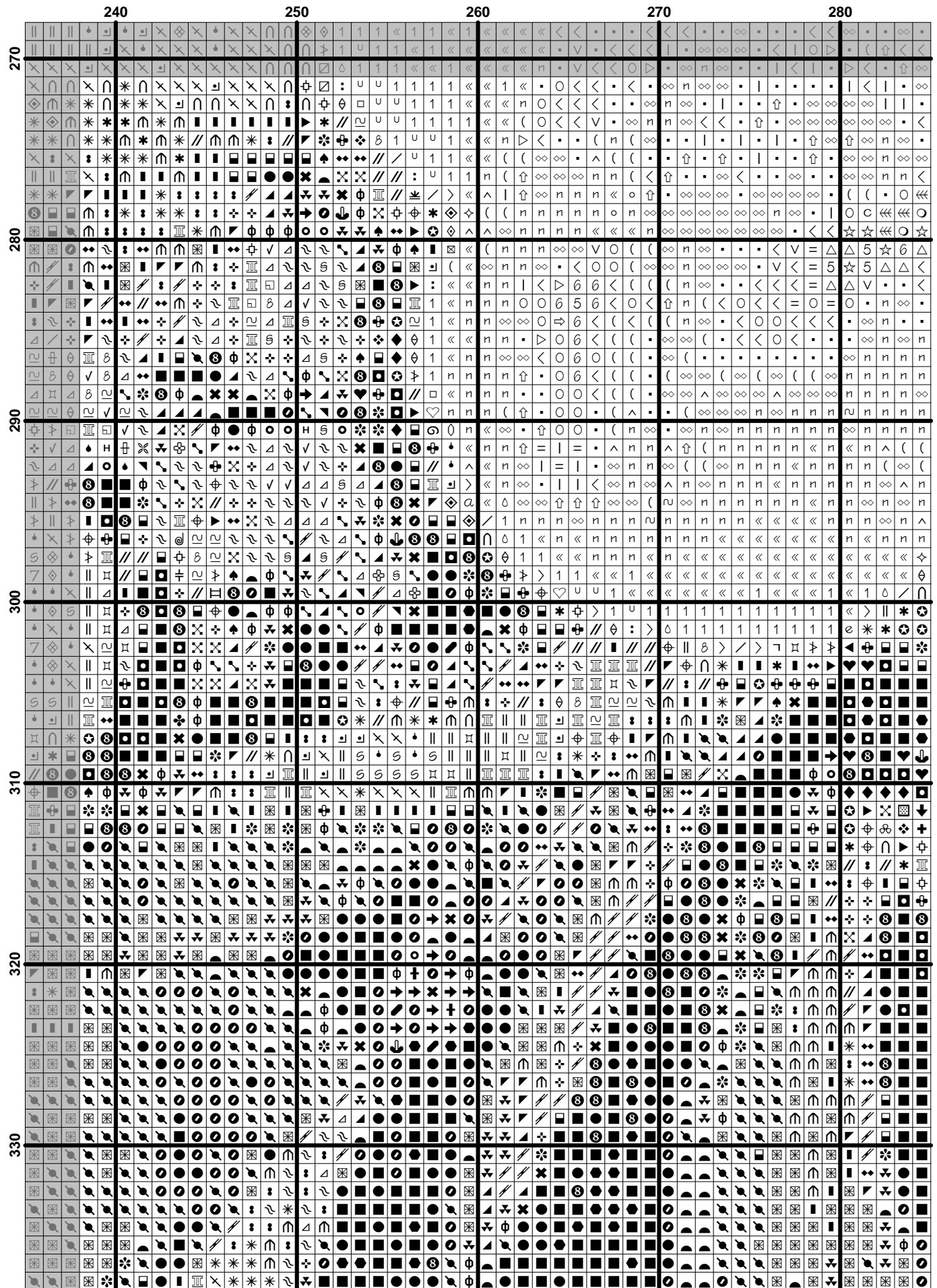




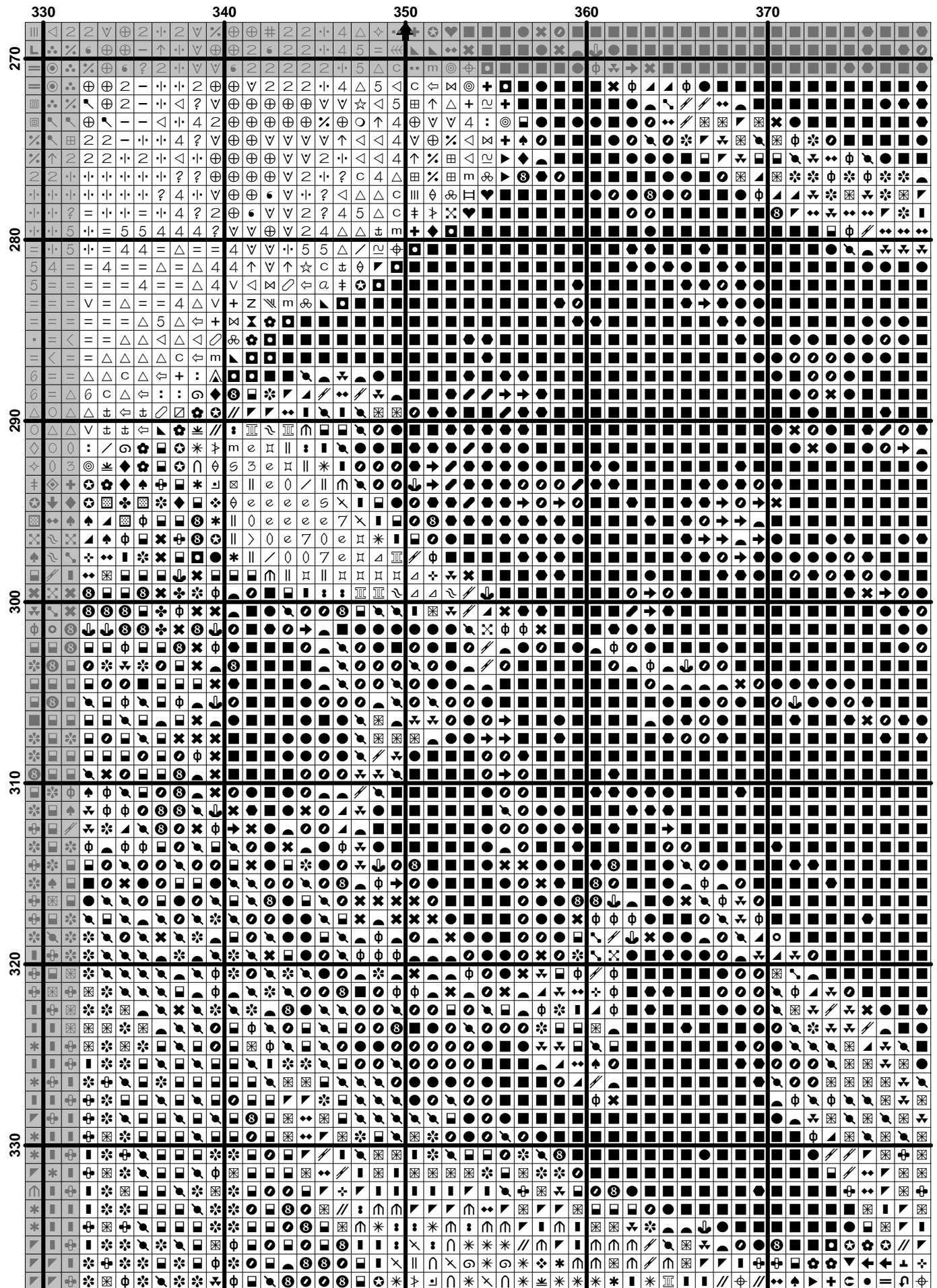


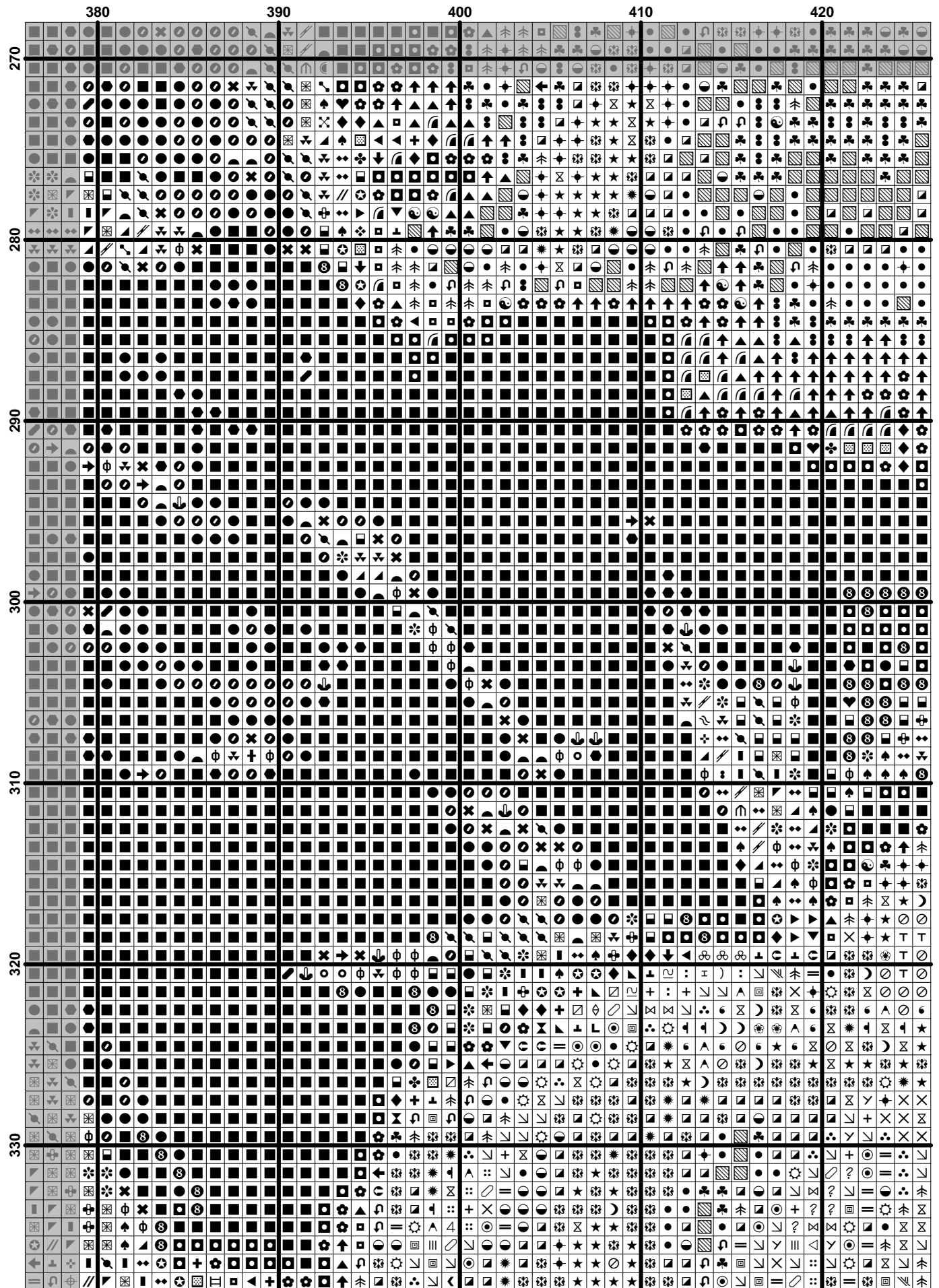


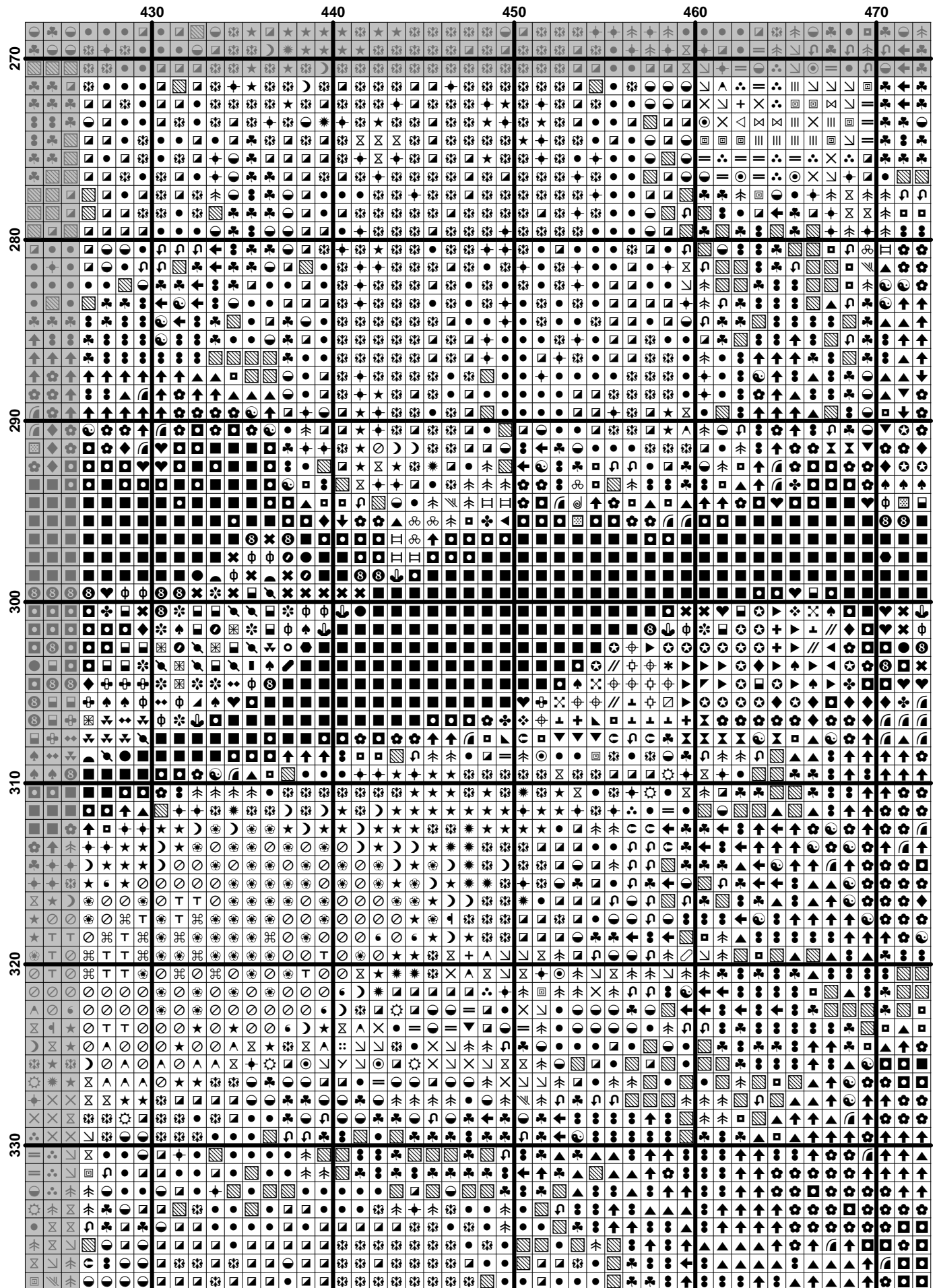


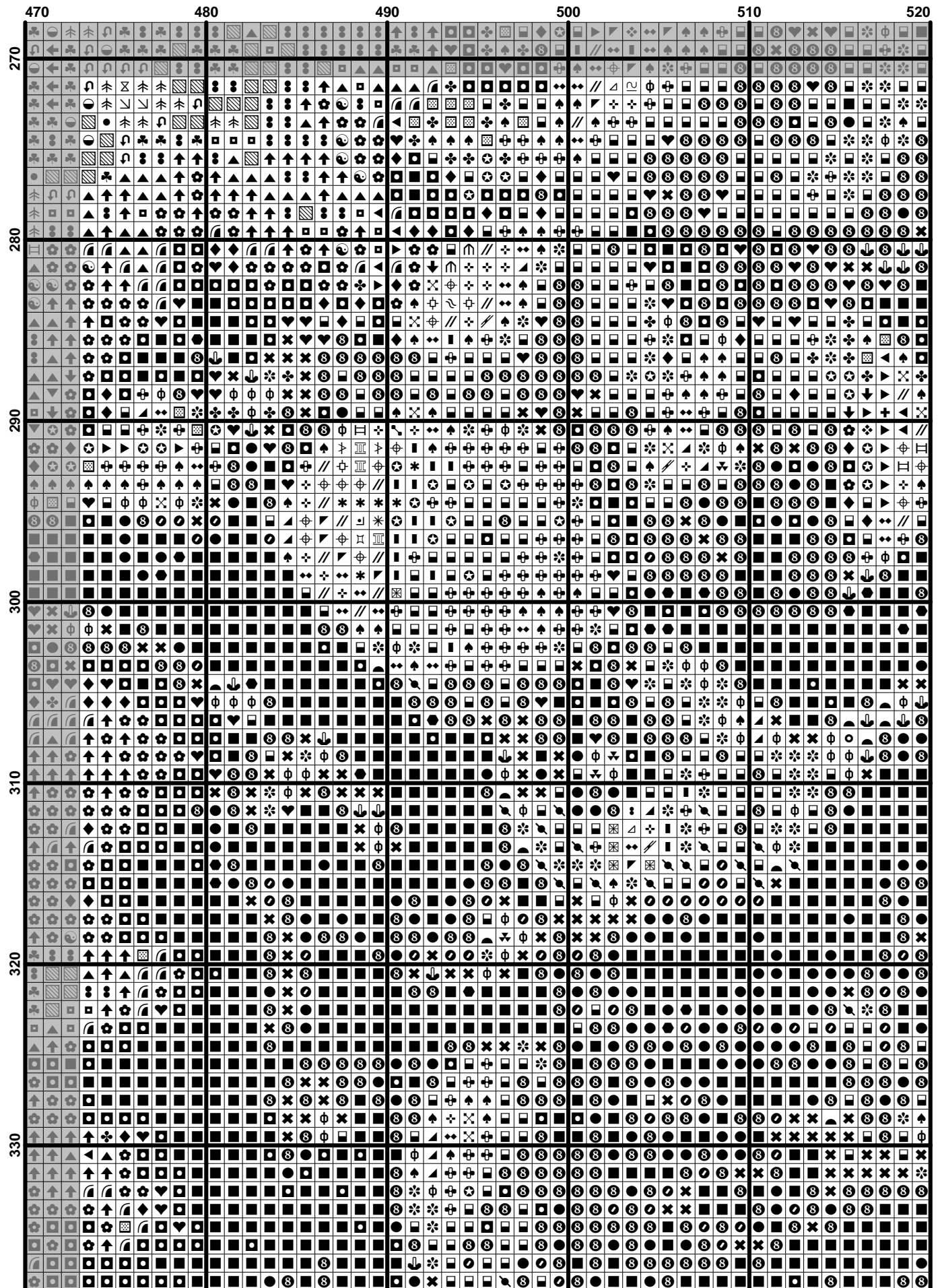


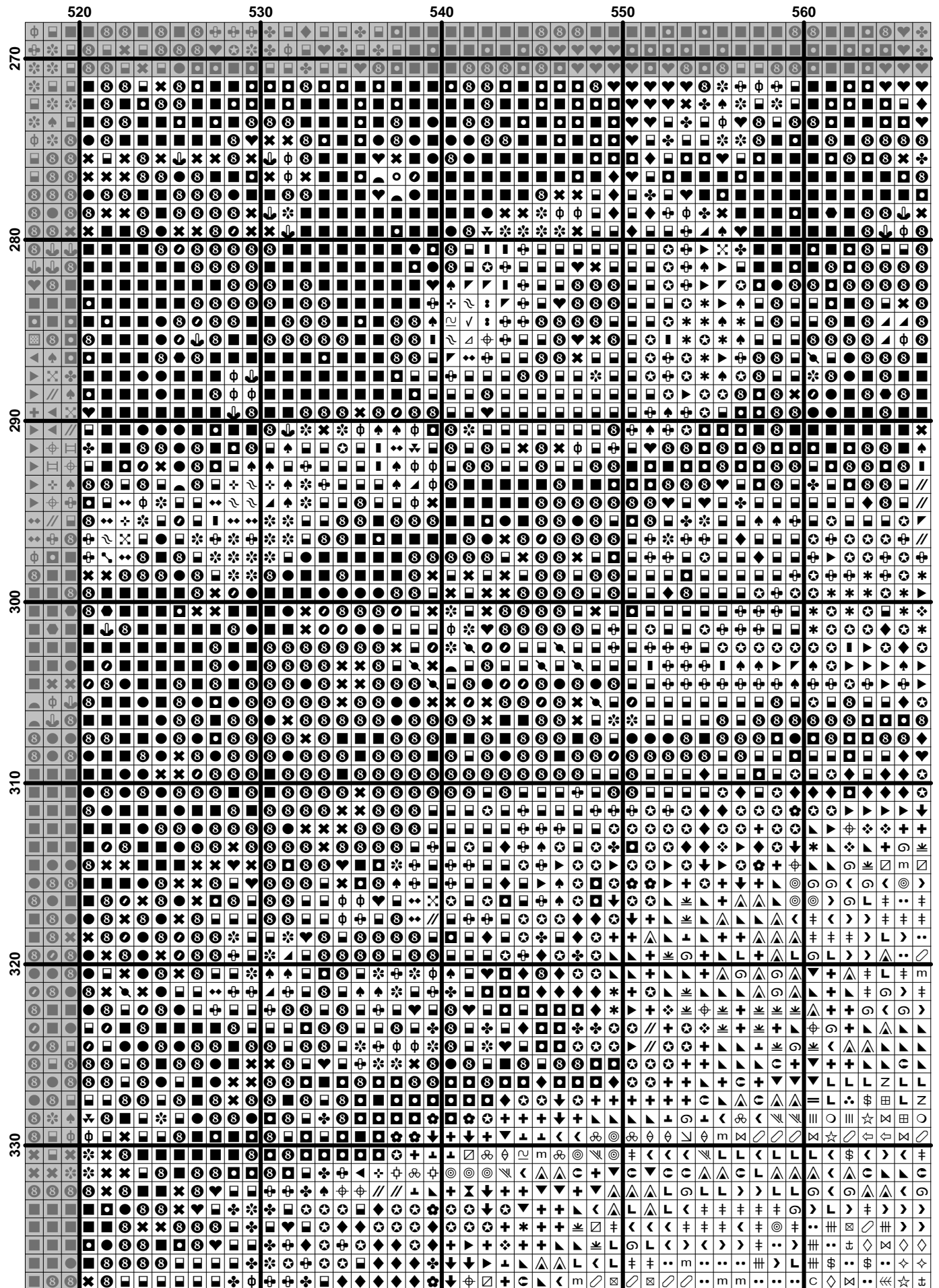
[illegible]

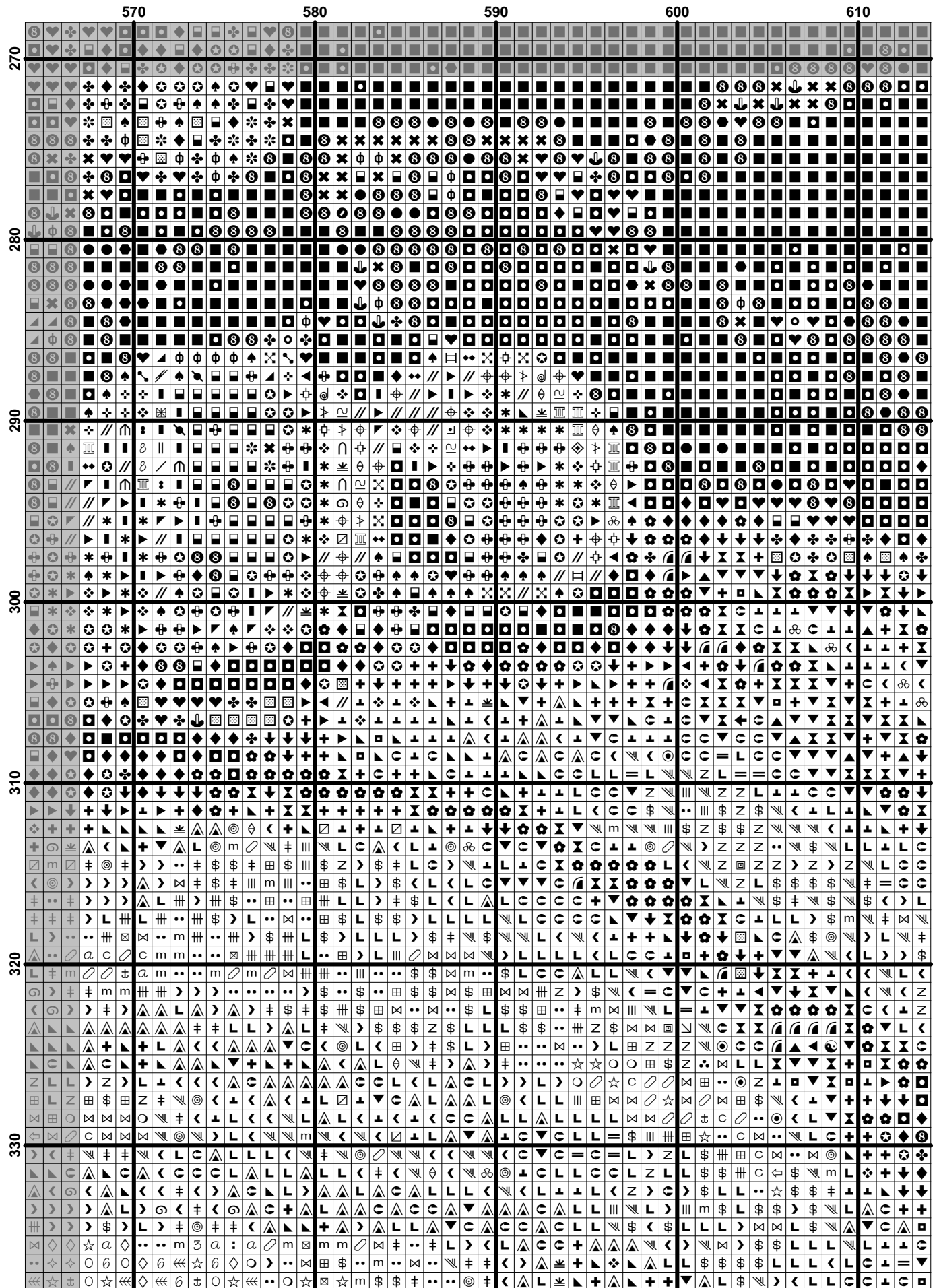


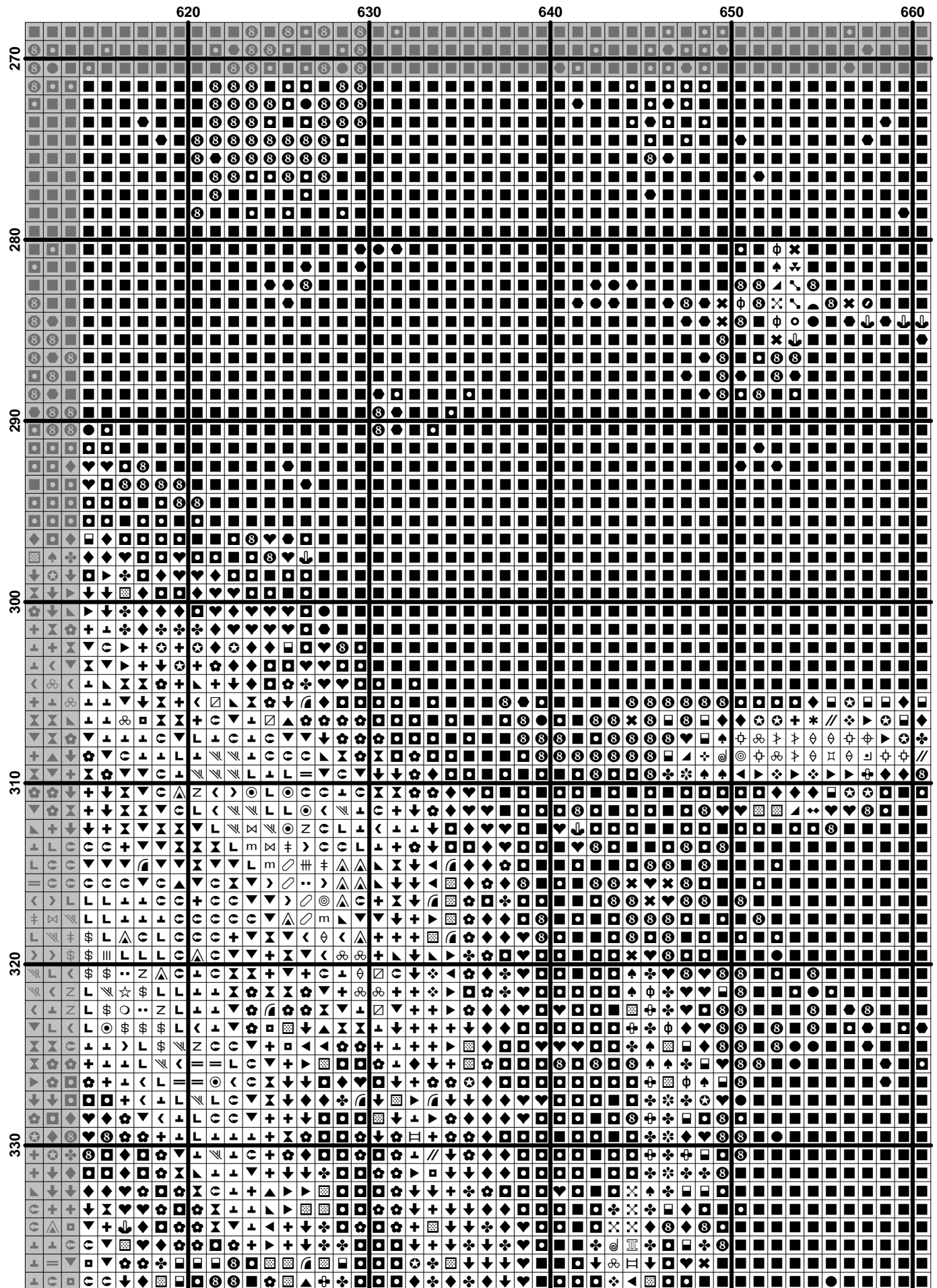


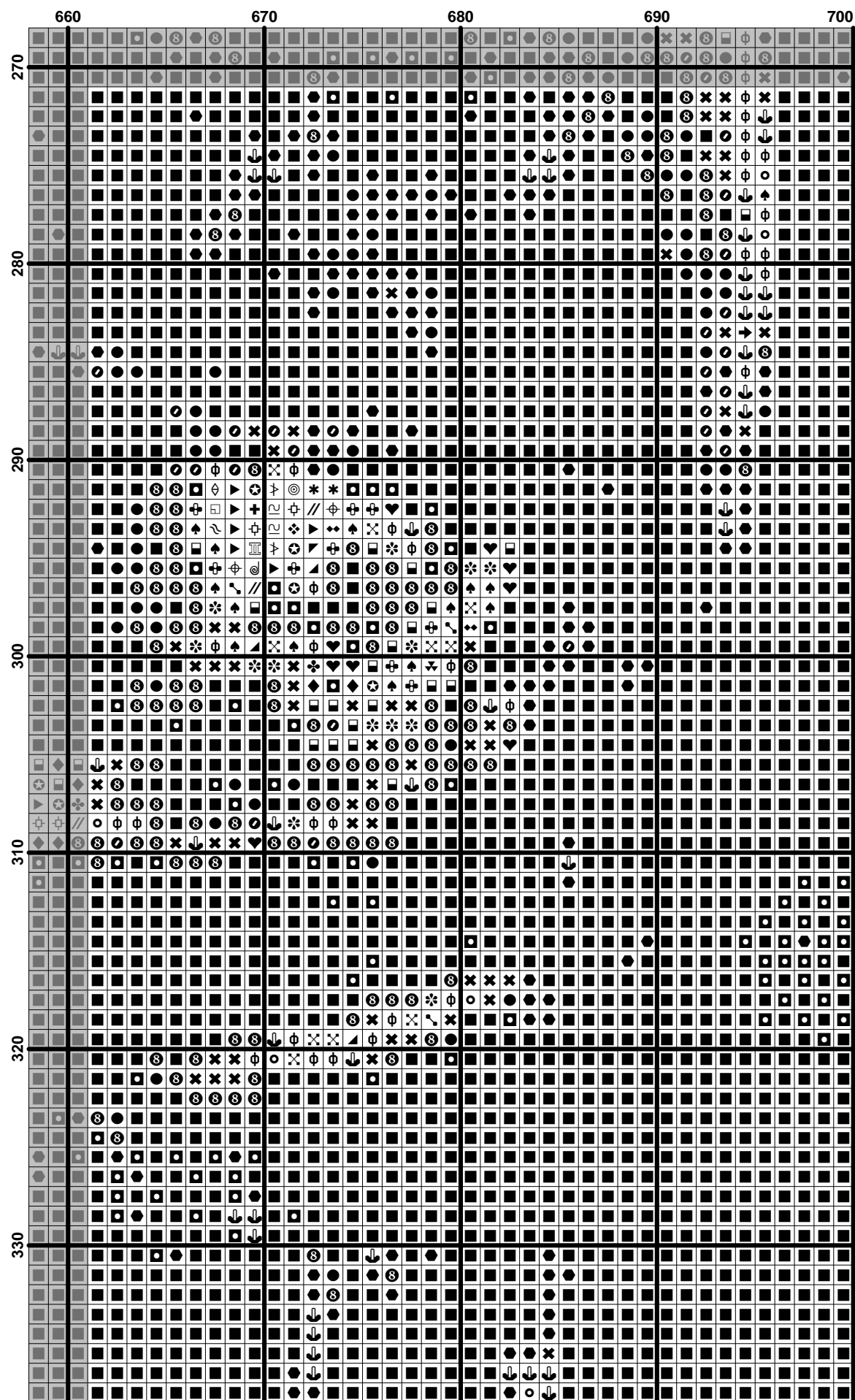


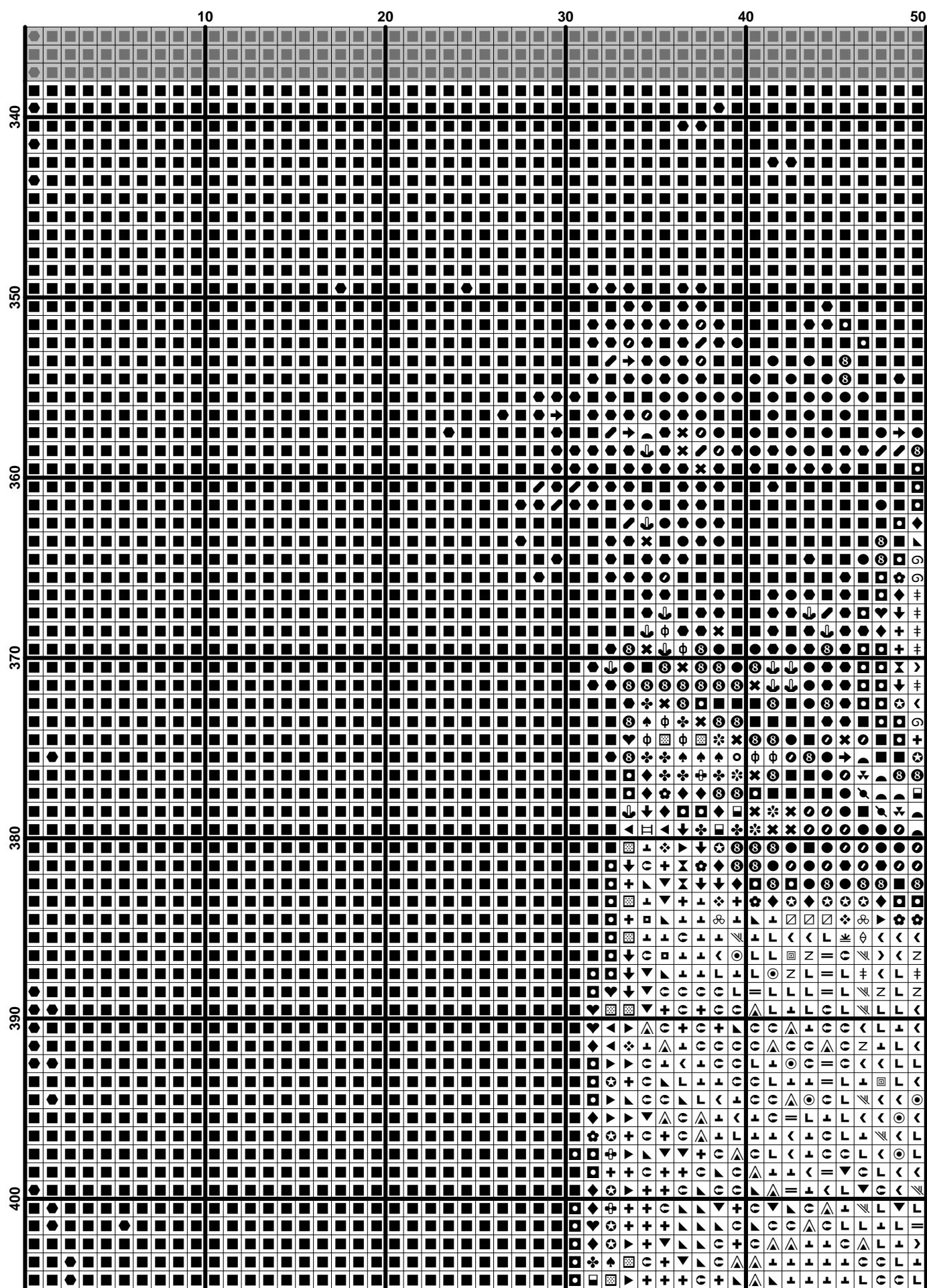






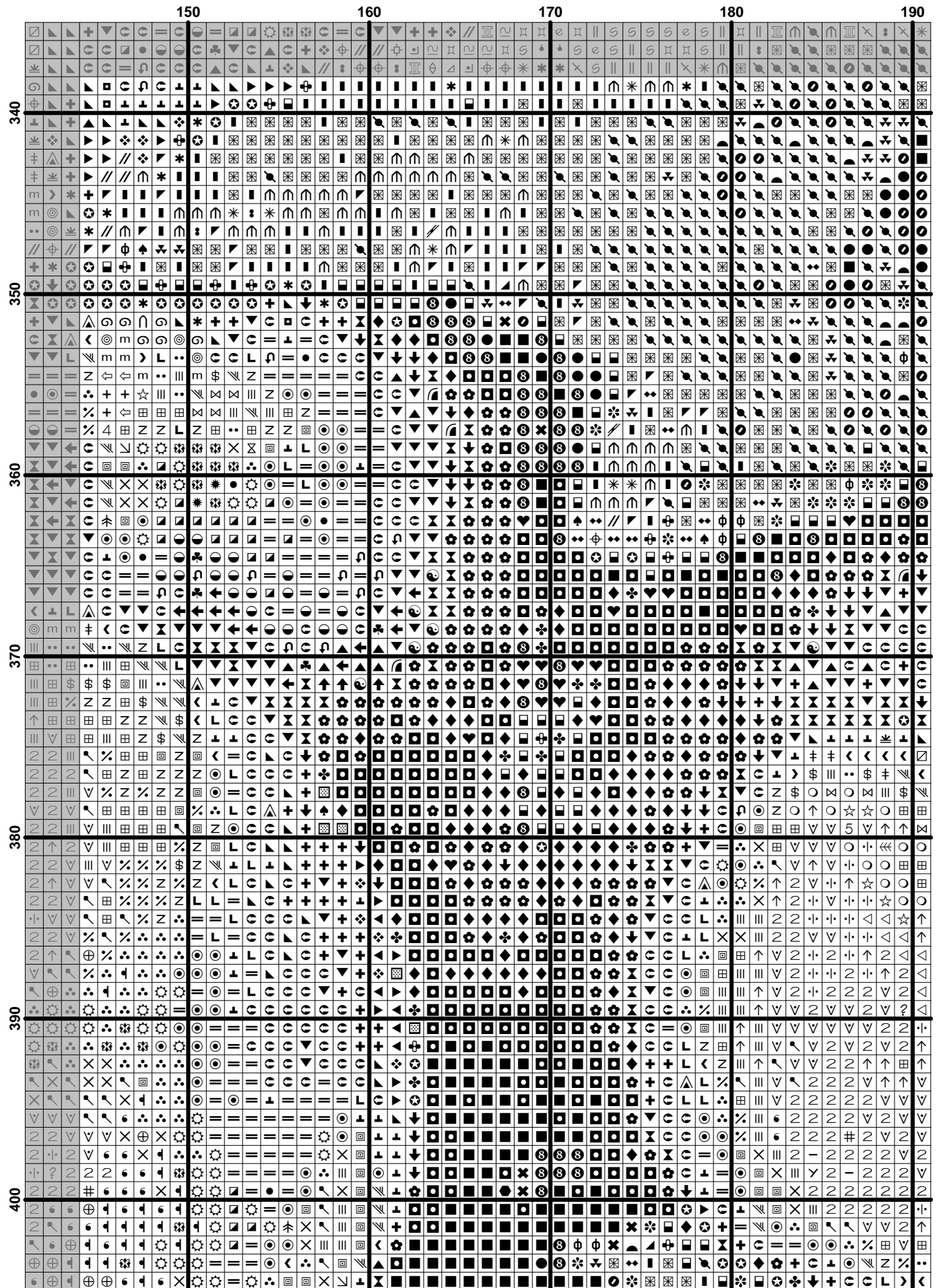


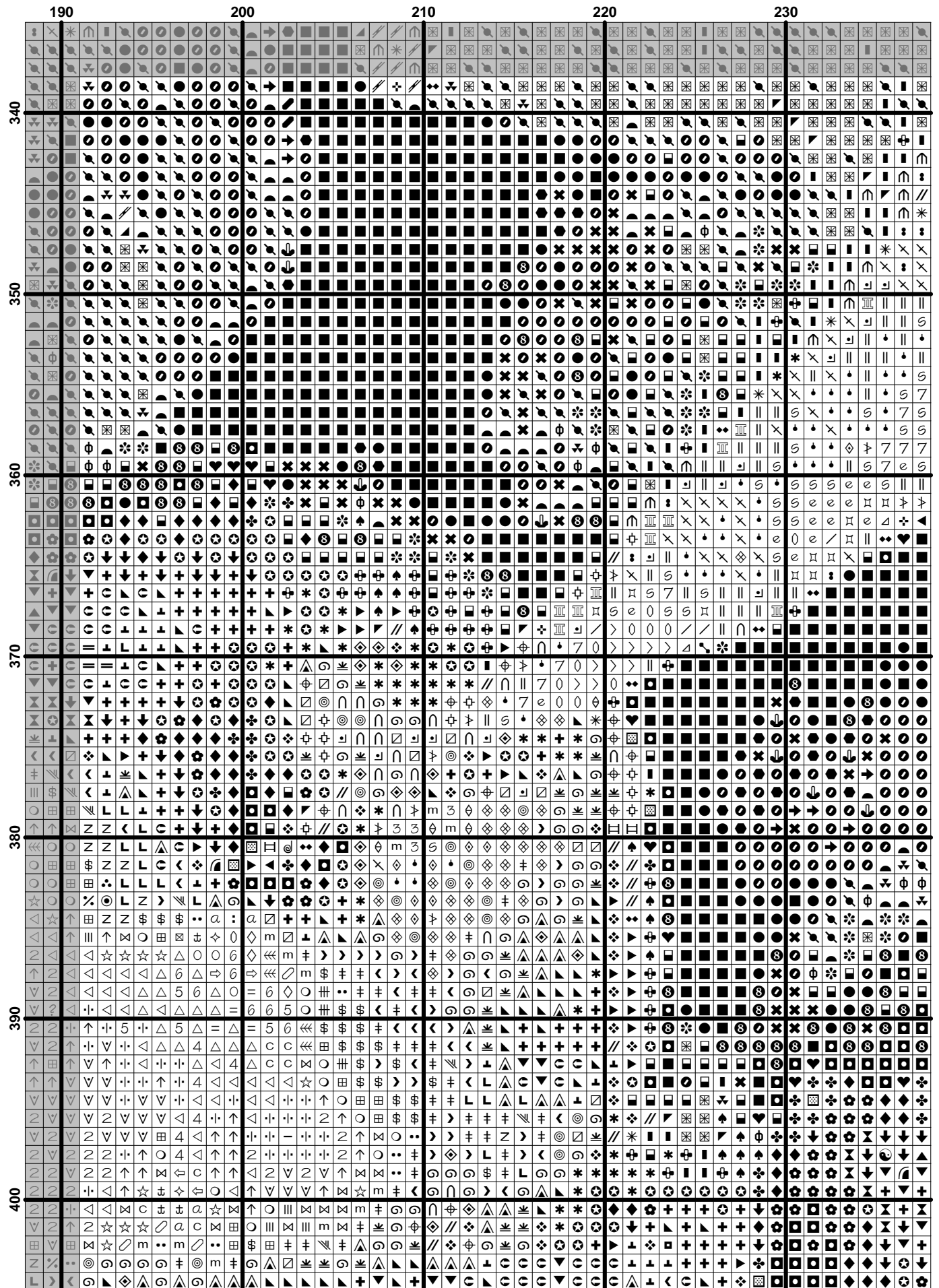


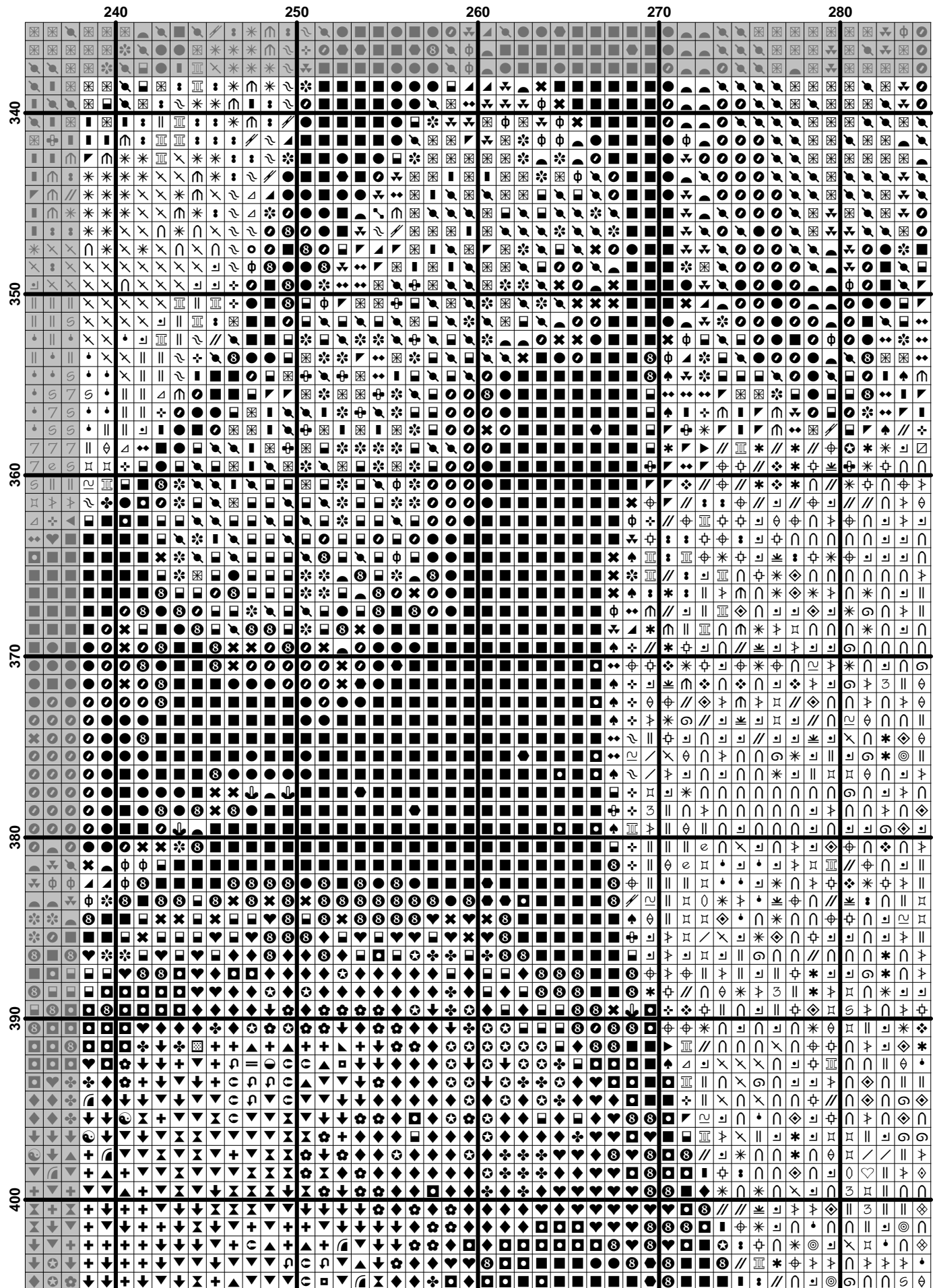


$$(92) \quad \mathcal{L}(\mathcal{A}) \subseteq \mathcal{L}(\mathcal{B}) \iff \mathcal{A} \subseteq \mathcal{B} \quad (93)$$

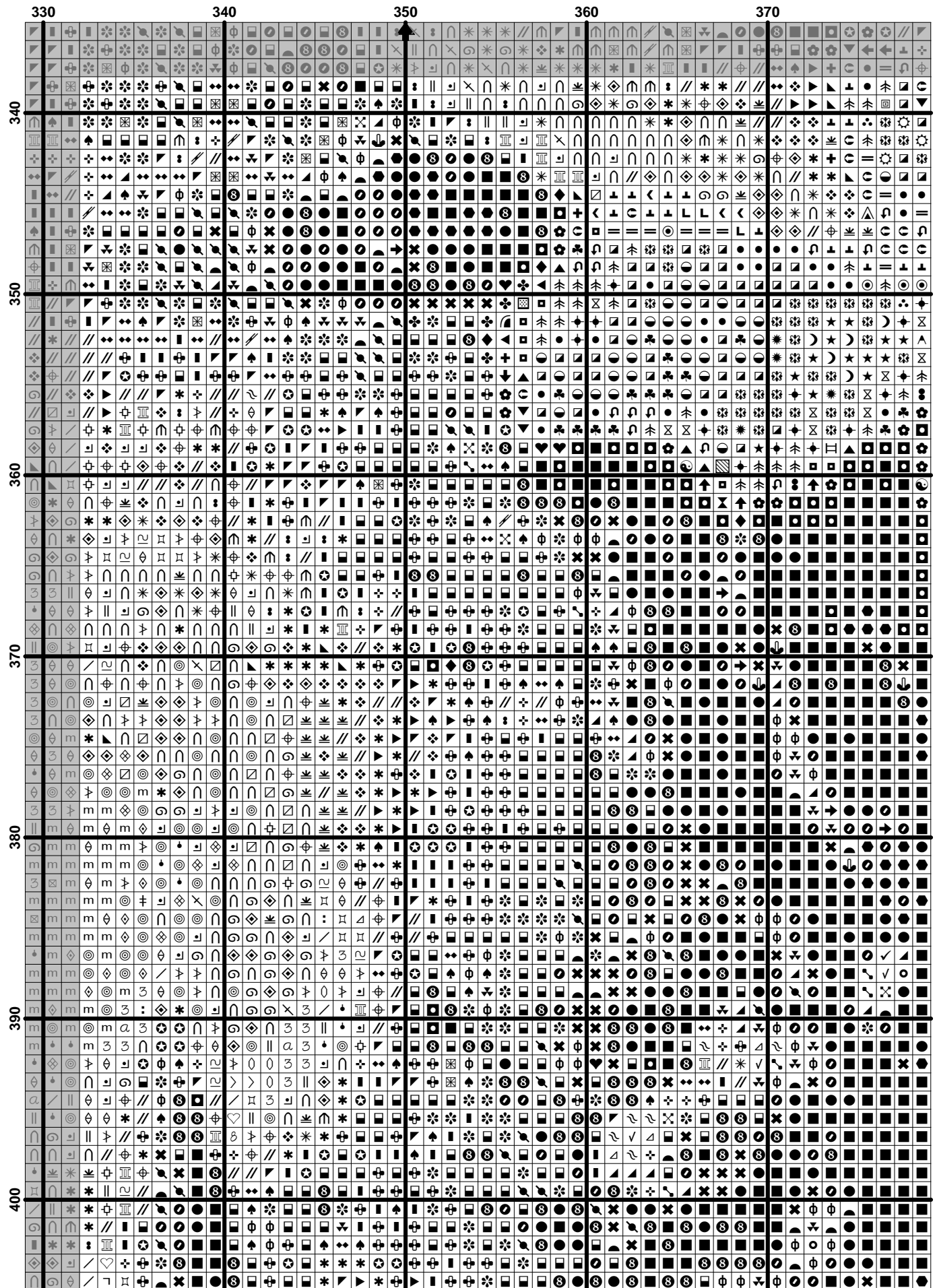
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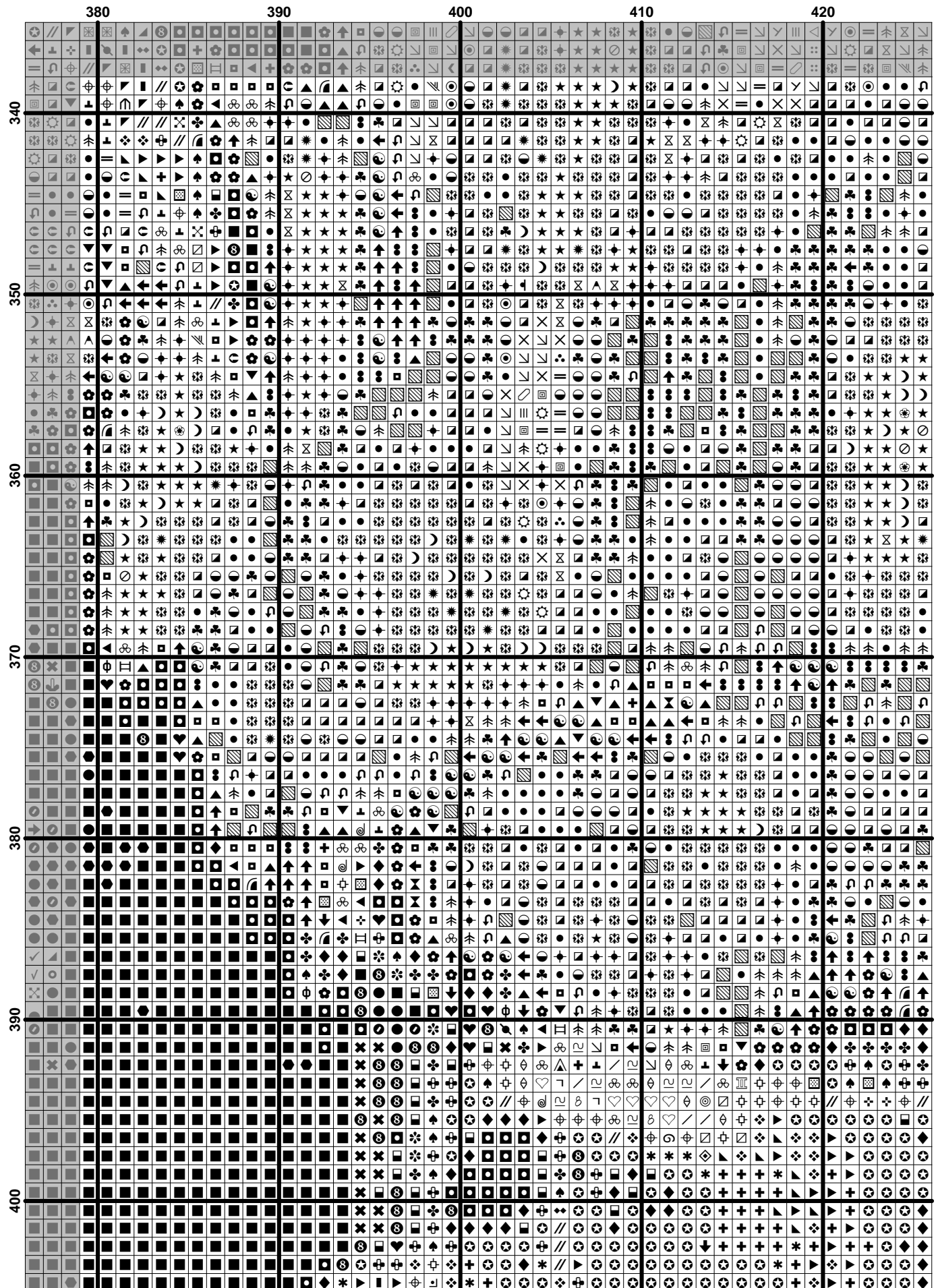


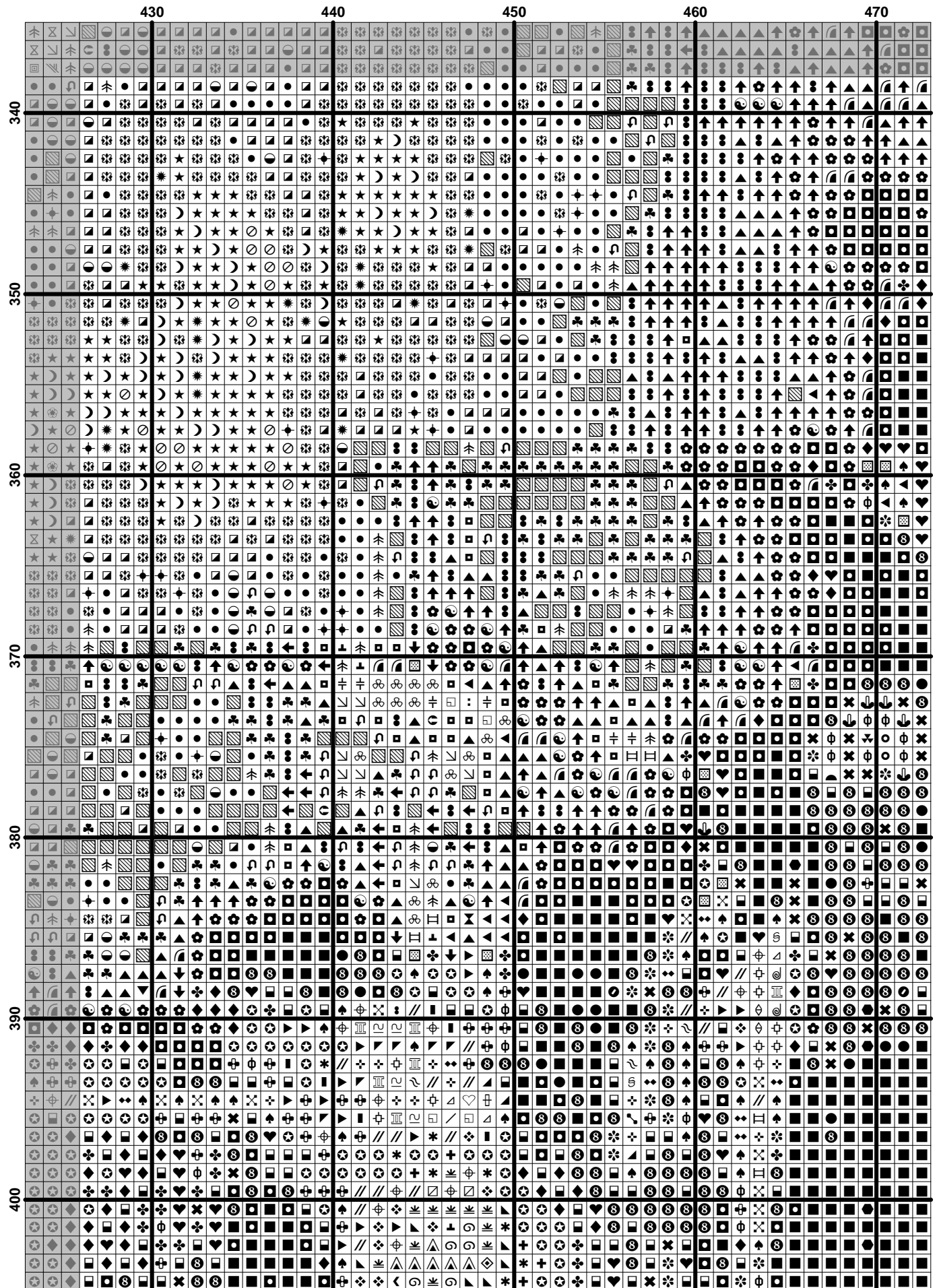


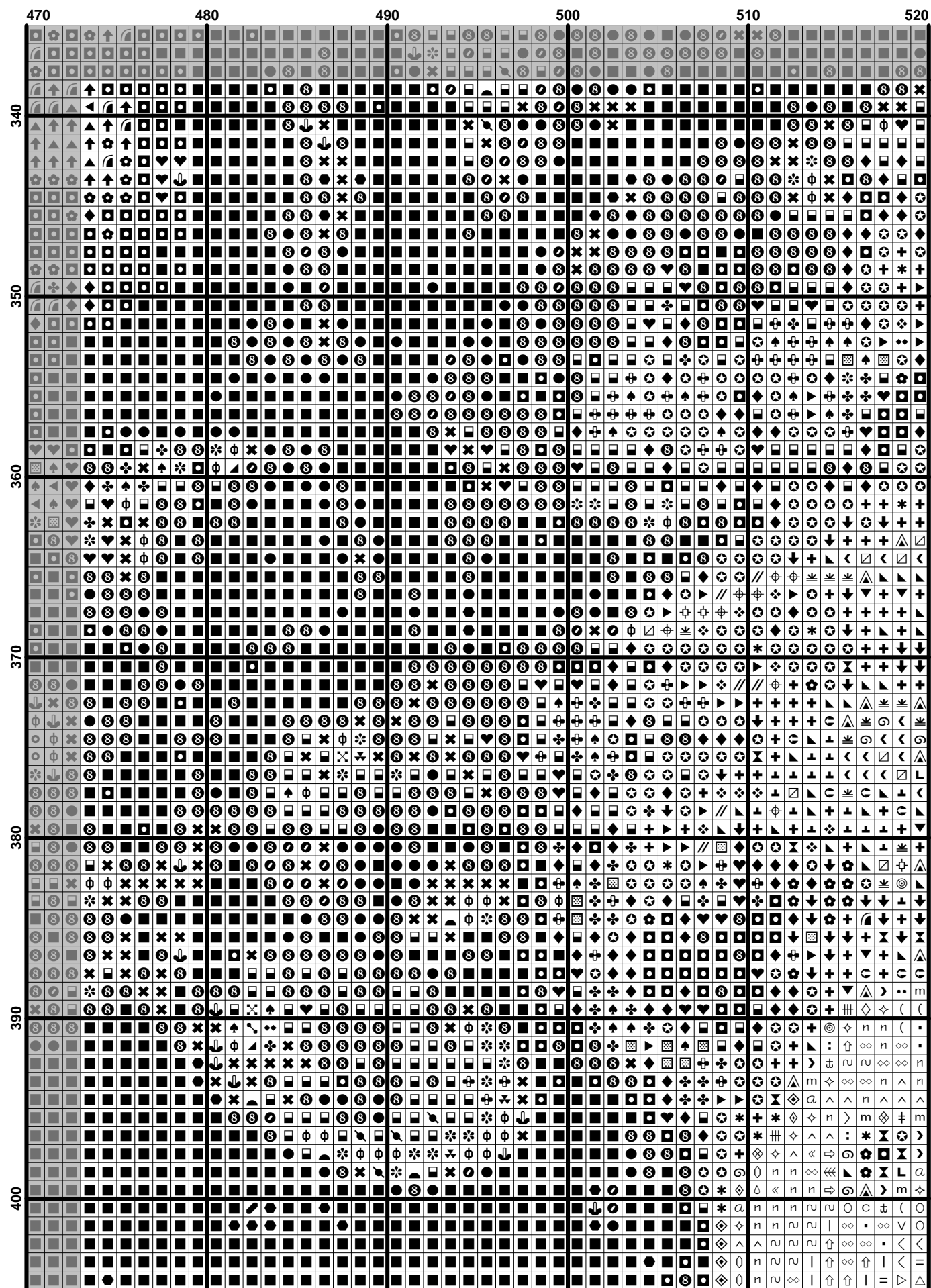


	290	300	310	320	330
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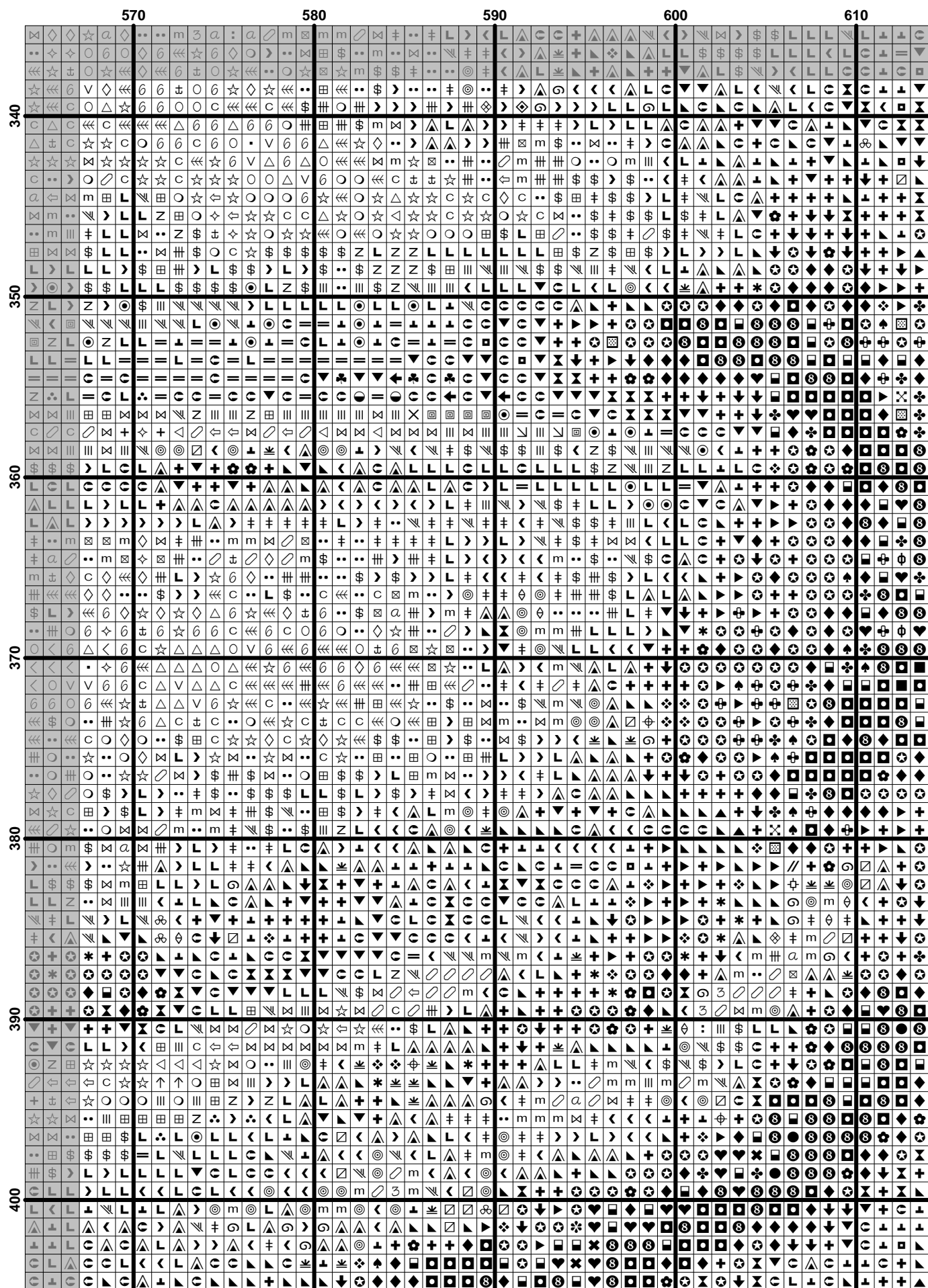


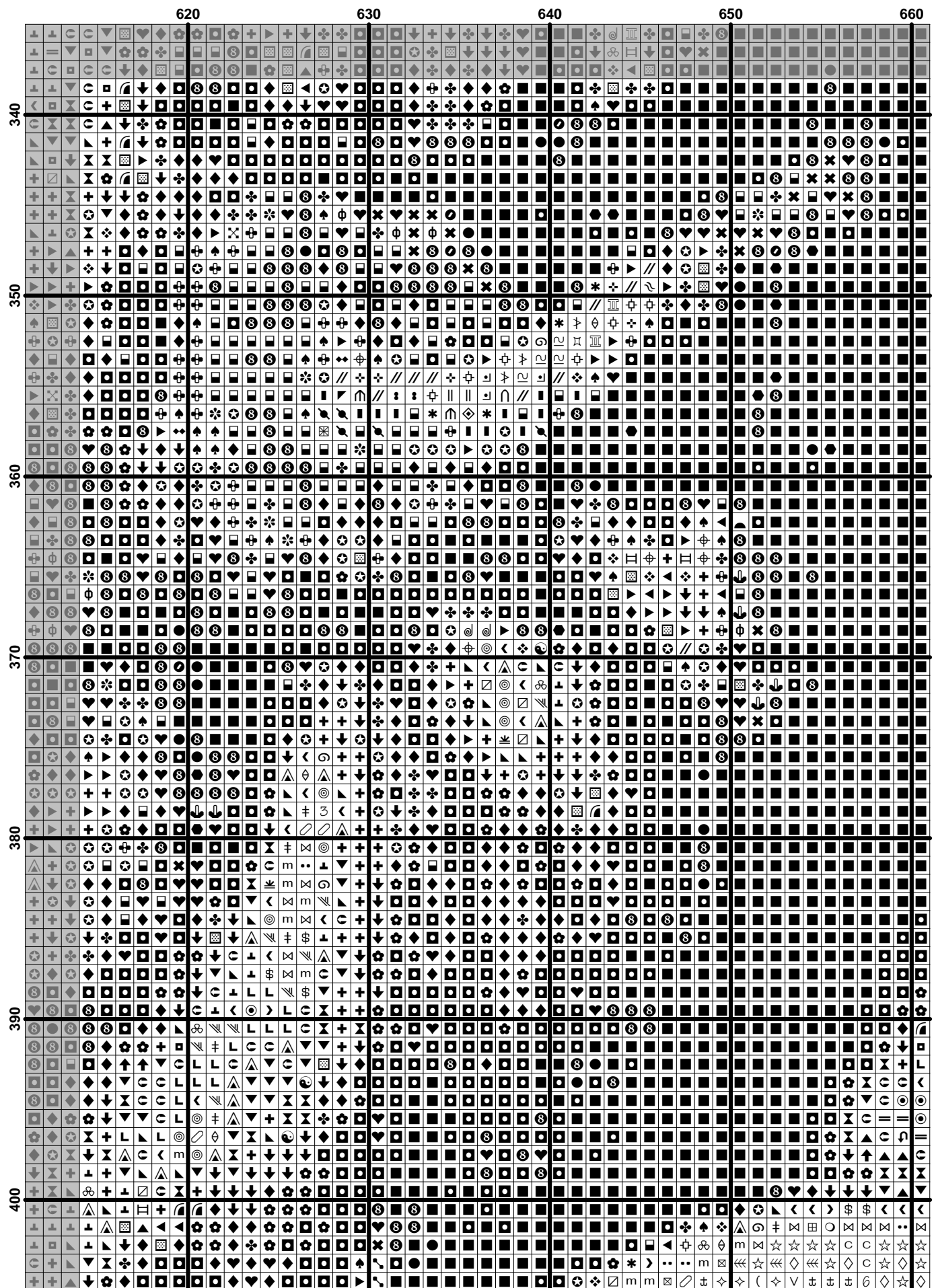


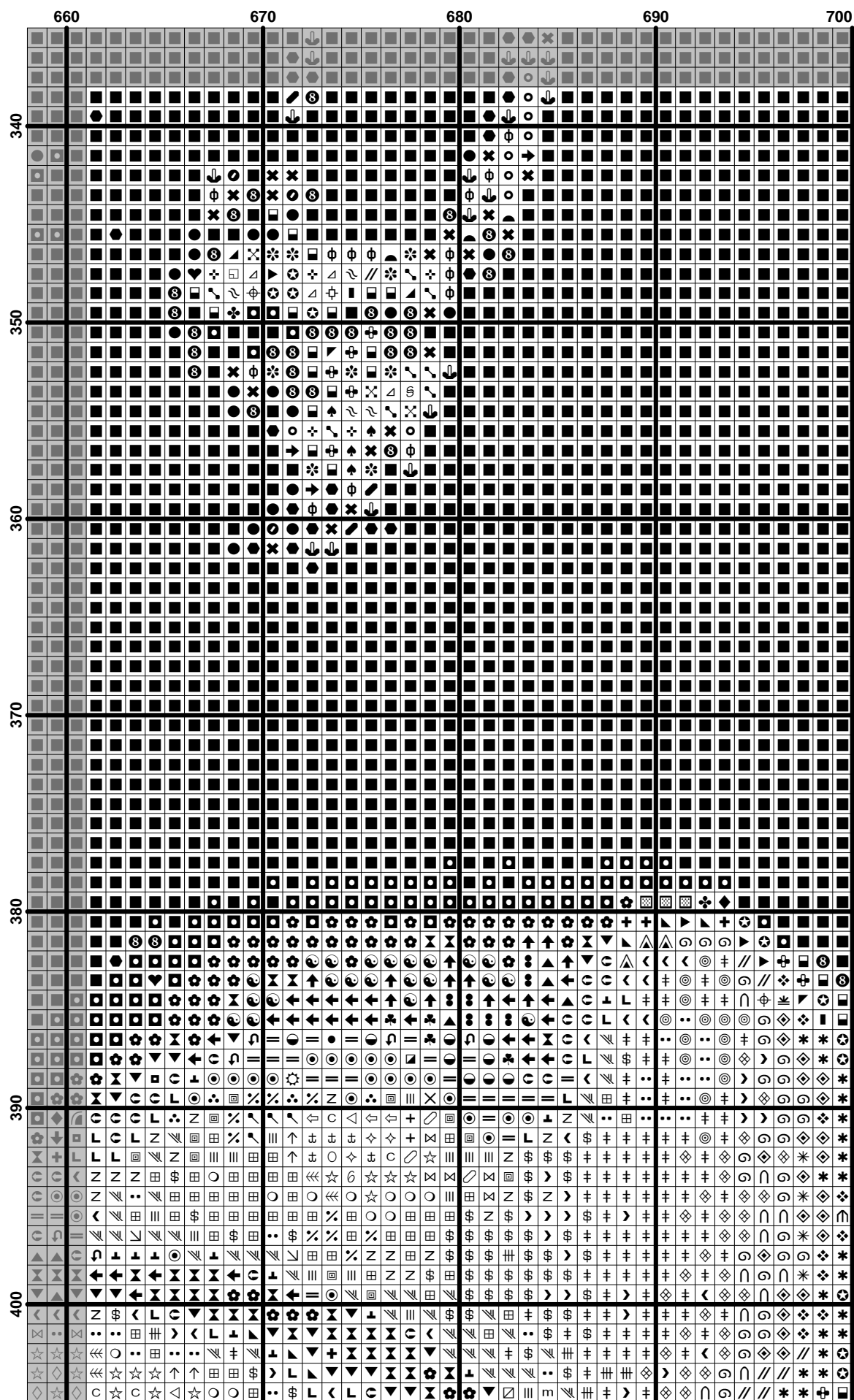


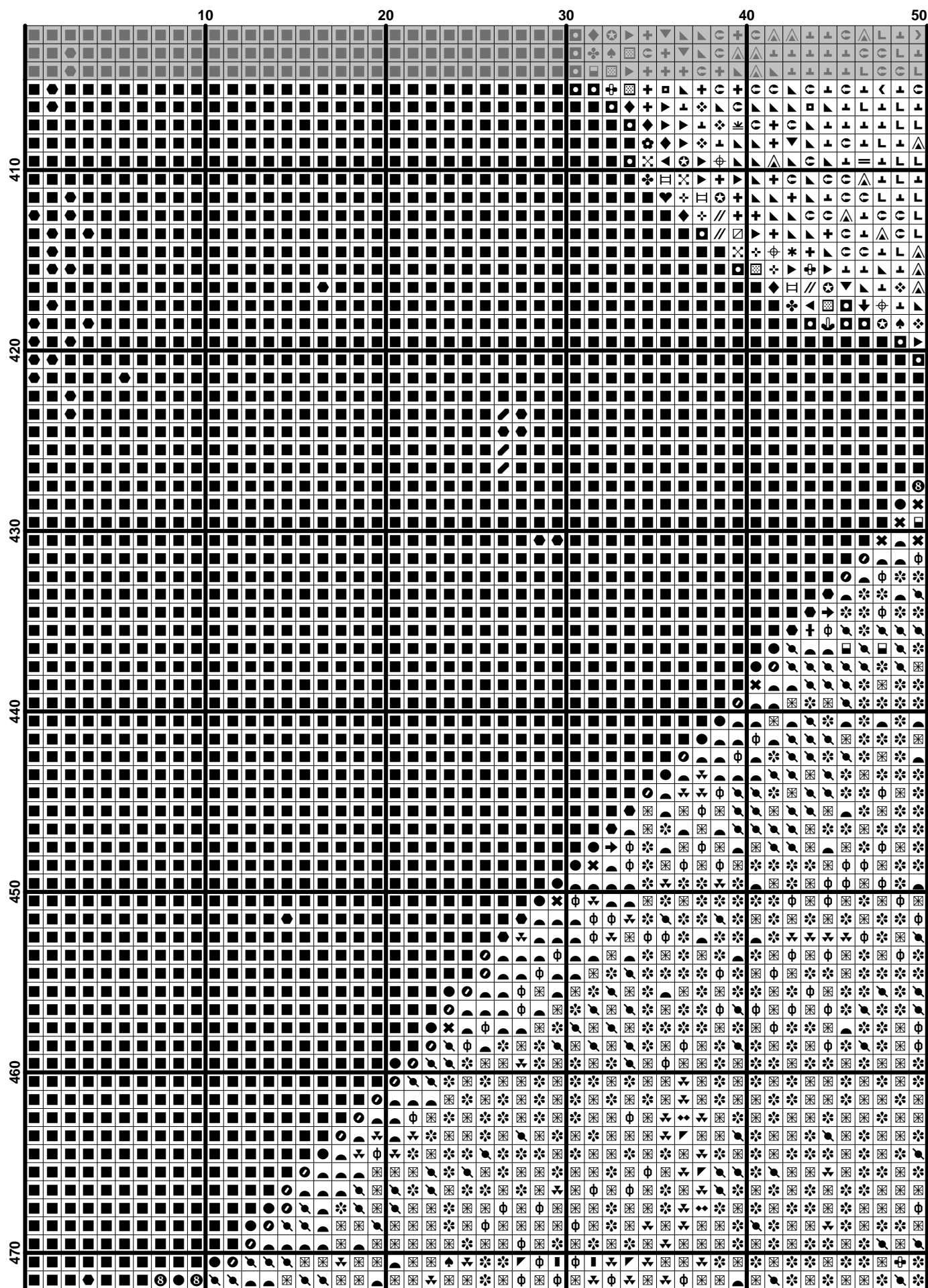


[illegible]



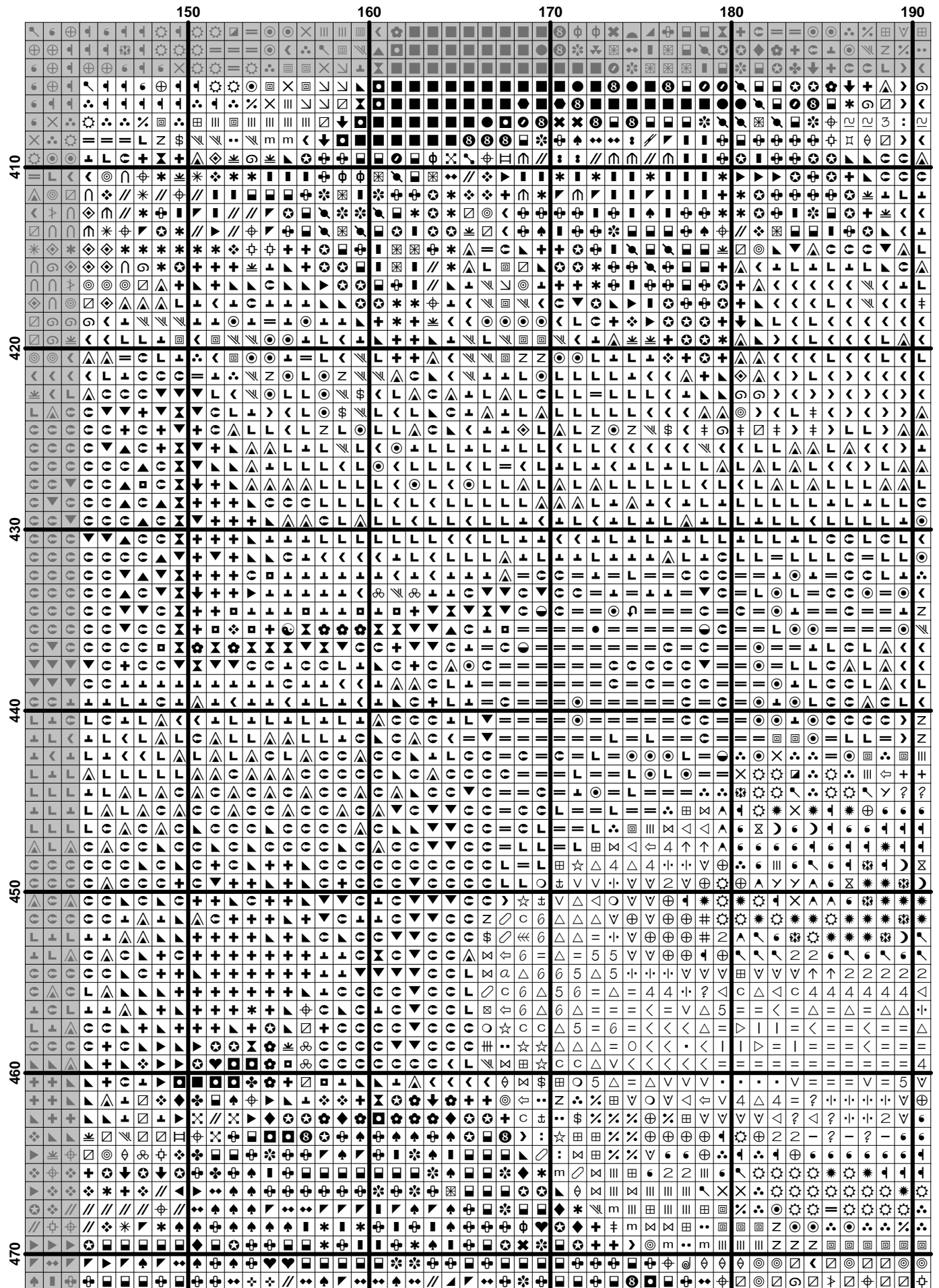


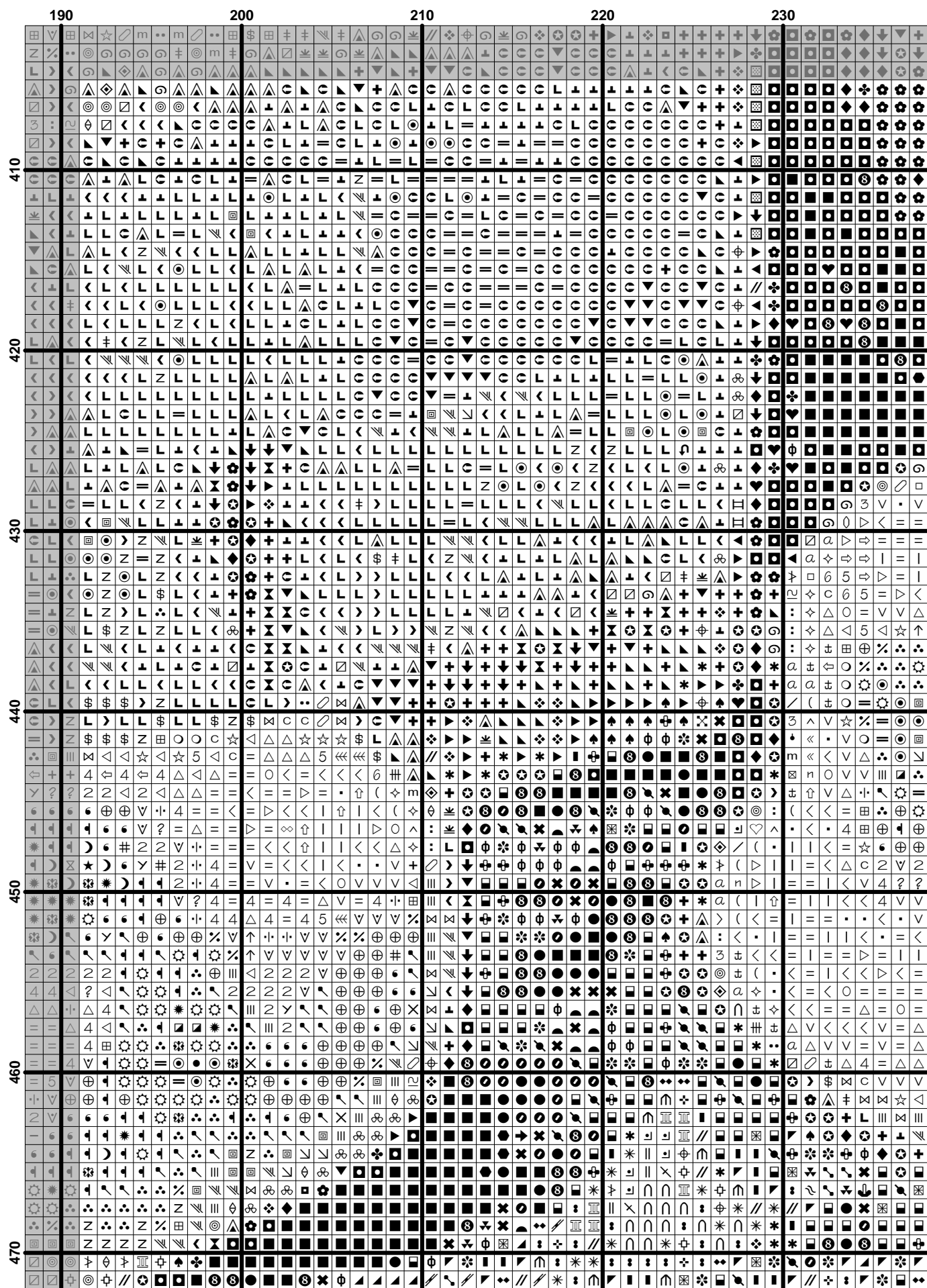


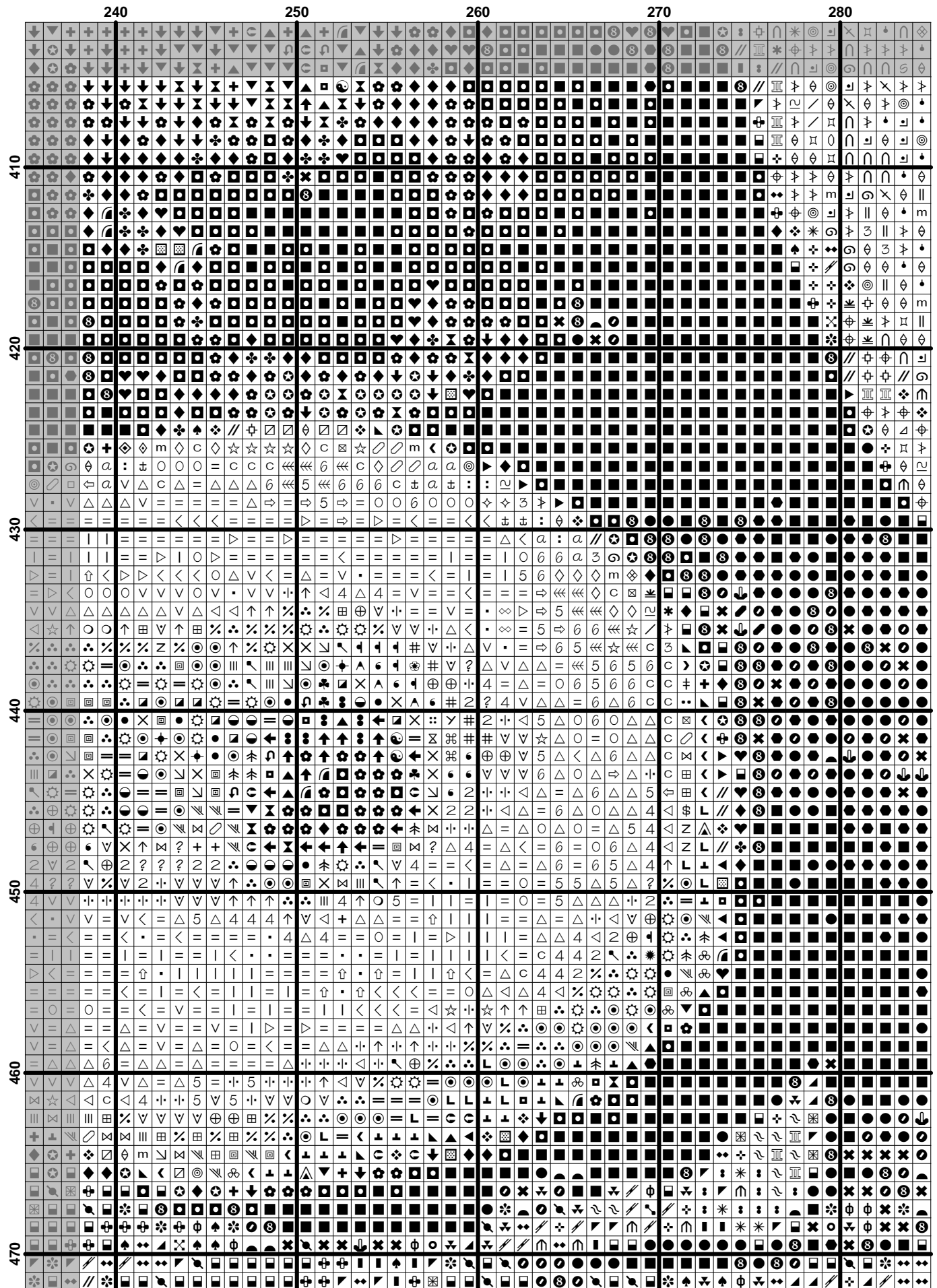


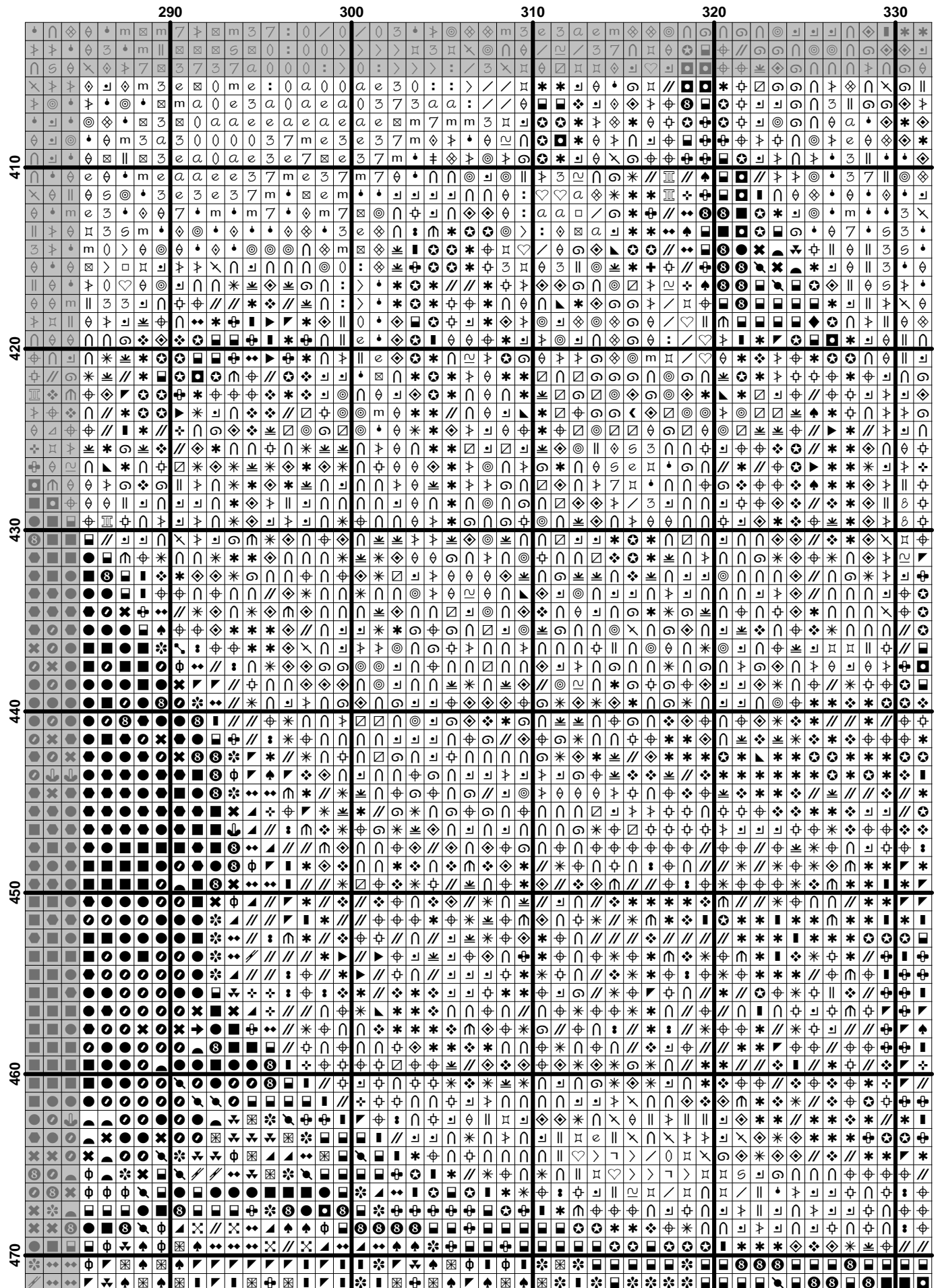
(108)

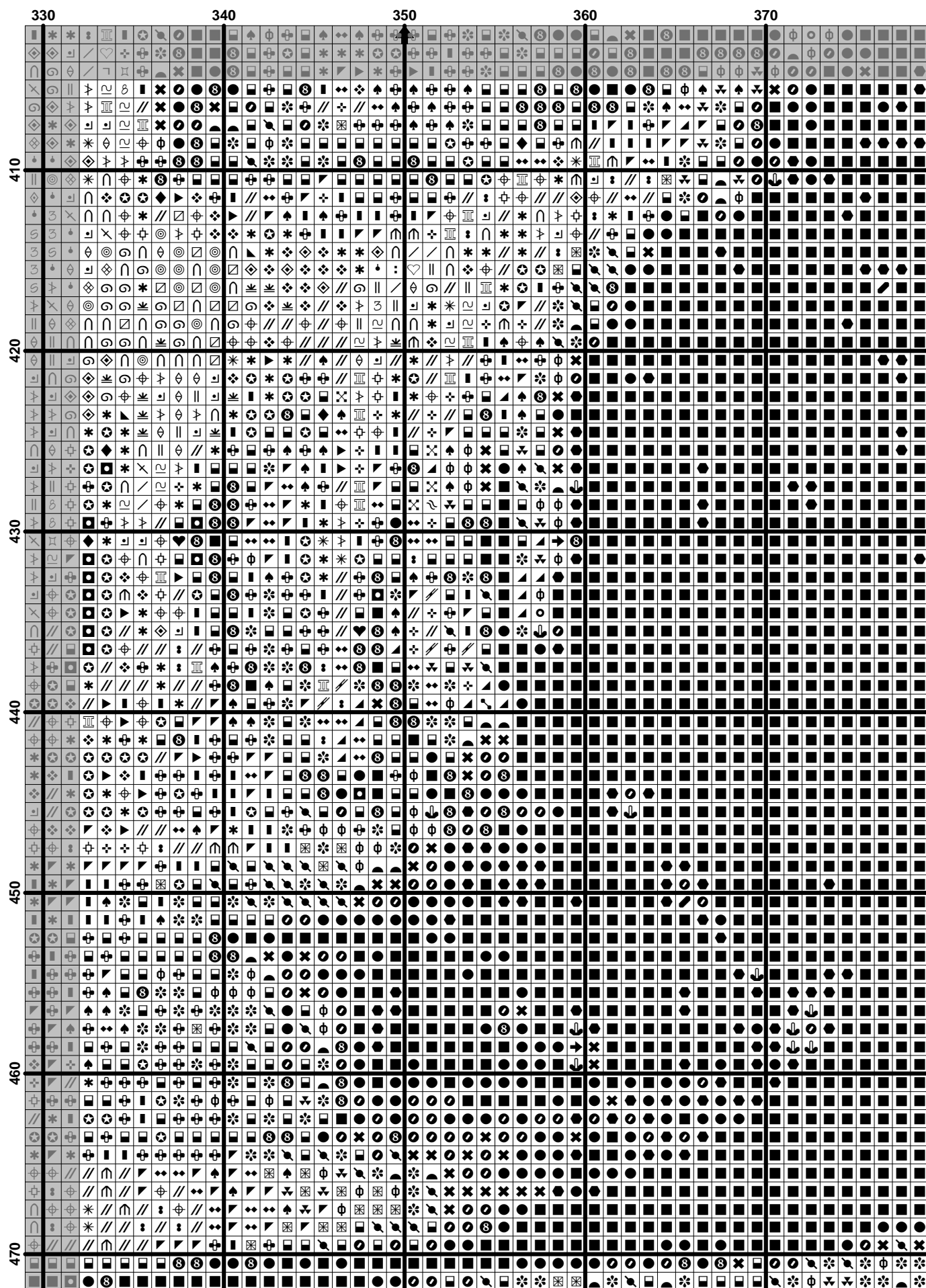
(109)

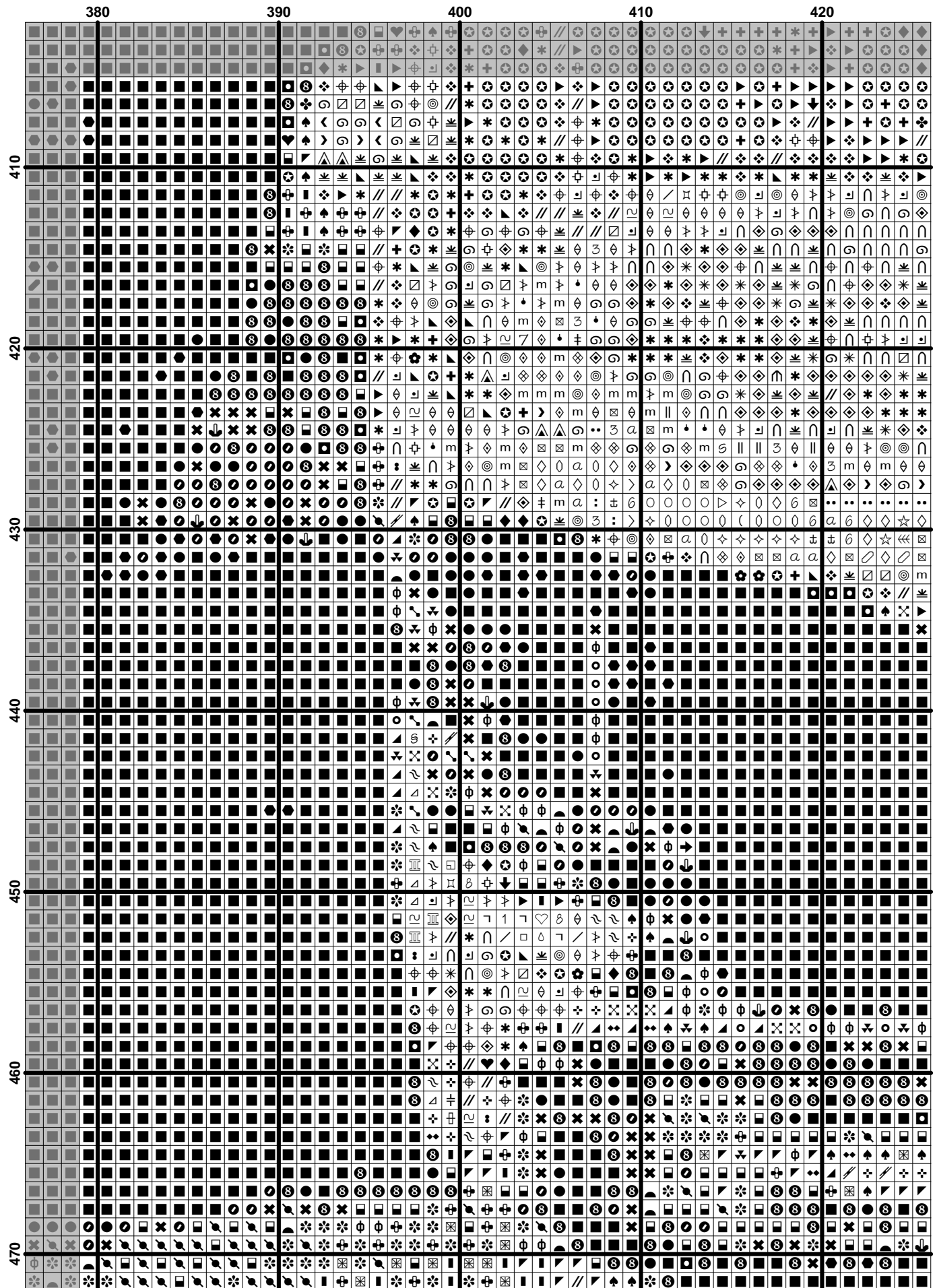


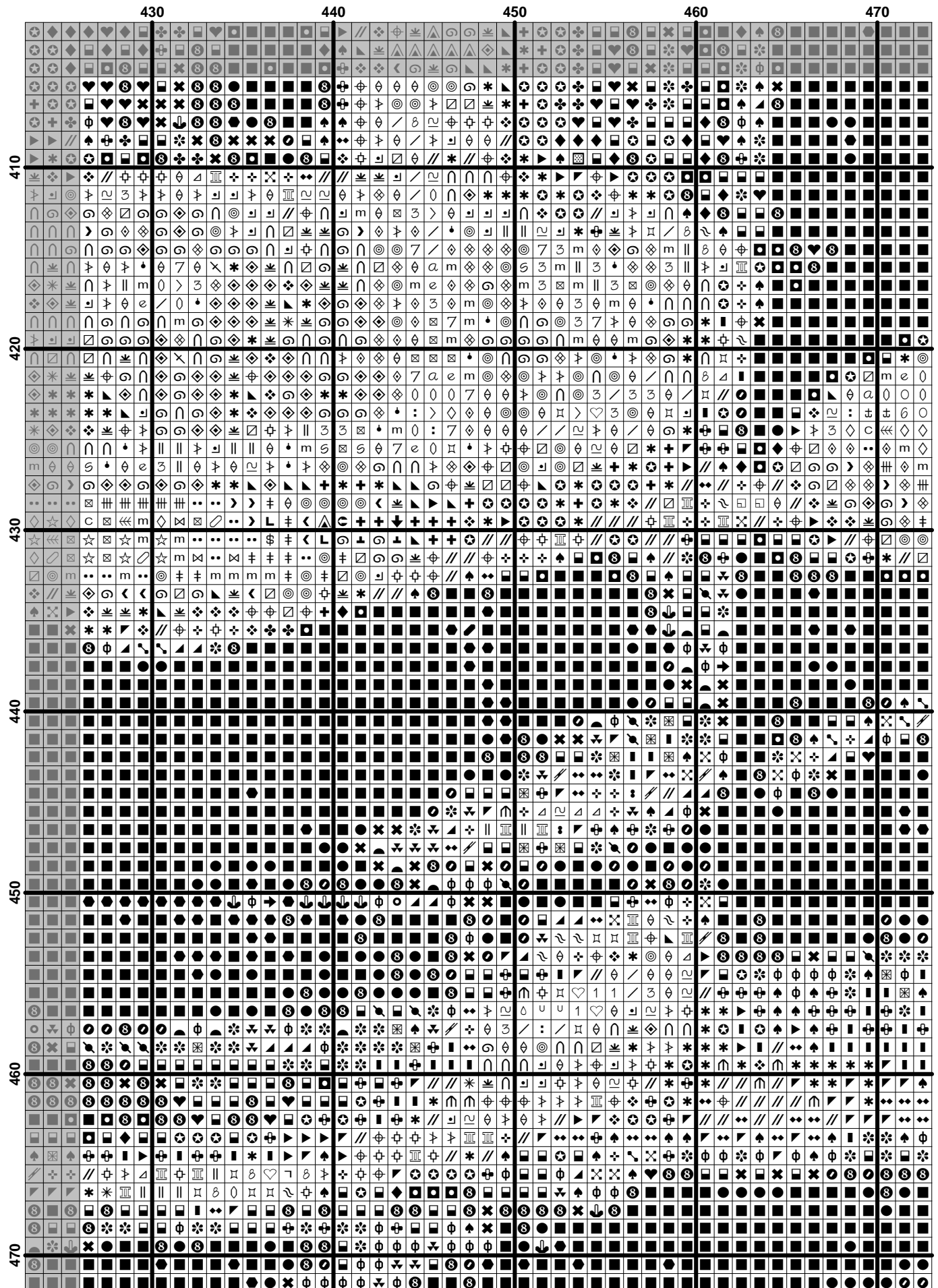


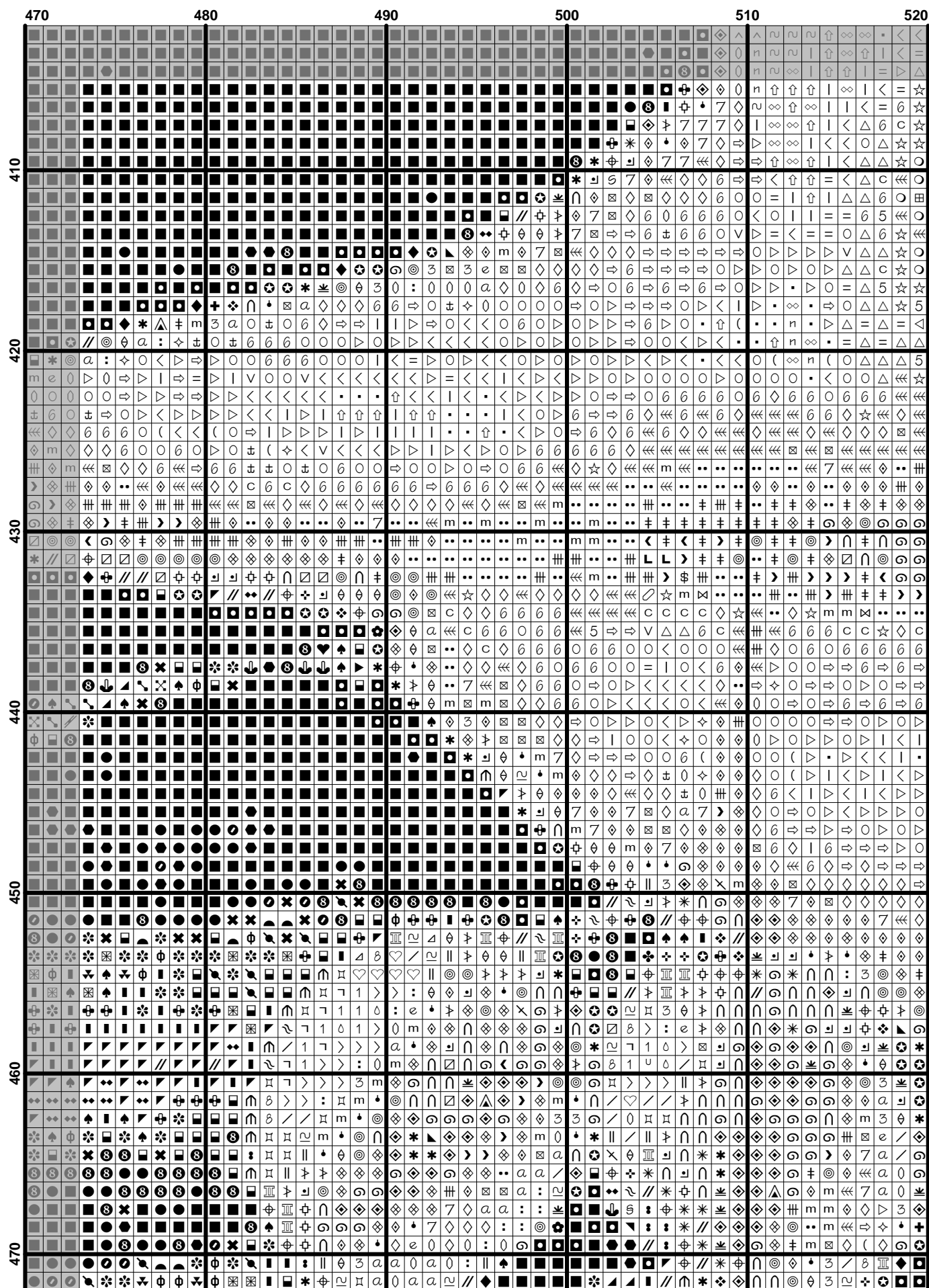












[illegible]

