

## 249 A Sculpture Gallery



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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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## A Sculpture Gallery

Stitch Count	
Horizontal:	400
Vertical:	578

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	105	41.14	64	24.89	92	36	57	22.125	82	32
Including Margins:	89	35	121	48	80	31	108	43	73	29	98	39
	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	147	57.59	85	33.18	122	47.99	42	16.59	61	23.99
Including Margins:	118	46	163	64	101	40	138	54	58	23	77	30
	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	58	23.03	39	15.31	56	22.15	37	14.74	54	21.33
Including Margins:	56	22	74	30	55	22	72	29	53	21	70	28
	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	52	20.57	34	13.27	49	19.19	31	12.44	45	17.99
Including Margins:	52	21	68	27	50	20	65	26	47	19	61	24

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
\$	223	Shell Pink-LT
0	224	Shell Pink-VY LT
+	301	Mahogany-MD
/	370	Mustard-MD
#	371	Mustard
↓	407	Desert Sand-DK
●	413	Pewter Gray-DK
≡	420	Hazelnut Brown-DK
•	422	Hazelnut Brown-LT
//	436	Tan
⌘	451	Shell Gray-DK
⊠	452	Shell Gray-MD
♣	520	Fern Green-DK
⊗	522	Fern Green
×	524	Fern Green-VY LT
/	543	Beige Brown-UL VY LT
⊗	611	Drab Brown
	612	Drab Brown-LT
↘	632	Desert Sand-UL VY DK
♦	640	Beige Gray-VY DK
τ	644	Beige Gray-MD
⊕	645	Beaver Gray-VY DK
:	712	Cream
♂	725	Topaz
e	726	Topaz-LT
⌘	733	Olive Green-MD
4	734	Olive Green-LT
2	738	Tan-VY LT
c	739	Tan-UL VY LT
>	743	Yellow-MD
^	745	Yellow-LT Pale
«	746	Off White
■	823	Navy Blue-DK

↓	829	Golden Olive-VY DK
⌘	831	Golden Olive-MD
♣	839	Beige Brown-DK
≡	869	Hazelnut Brown-VY DK
●	898	Coffee Brown-VY DK
>	928	Gray Green-VY LT
●	938	Coffee Brown-UL DK
↘	976	Golden Brown-MD
~	977	Golden Brown-LT
*	3022	Brown Gray-MD
◇	3023	Brown Gray-LT
∞	3024	Brown Gray-VY LT
Z	3045	Yellow Beige-DK
⊕	3053	Green Gray
~	3078	Golden Yellow-VY LT
⊕	3363	Pine Green-MD
⊗	3740	Antique Violet-DK
L	3756	Baby Blue-UL VY LT
⊠	3772	Desert Sand-VY DK
::	3774	Desert Sand-VY LT
♥	3799	Pewter Gray-VY DK
⊠	3802	Antique Mauve-VY DK
≡	3820	Straw-DK
1	3823	Yellow-UL Pale
L	3828	Hazelnut Brown
⊕	3829	Old Gold-VY DK
⊗	3852	Straw-VY DK
0	3854	Autumn Gold-MD
u	3855	Autumn Gold-LT
✚	3860	Cocoa
⊕	3861	Cocoa-LT
l	3862	Mocha Beige-DK
s	3864	Mocha Beige-LT
▪	3865	Winter White
(	Ecru	Ecru

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
℘	3825	Pumpkin-Pale	3855	Autumn Gold-LT
⌘	3861	Cocoa-LT	647	Beaver Gray-MD
⌘	976	Golden Brown-MD	977	Golden Brown-LT
⊕	611	Drab Brown	3862	Mocha Beige-DK
⊗	743	Yellow-MD	3854	Autumn Gold-MD
+	3855	Autumn Gold-LT	738	Tan-VY LT
√	3855	Autumn Gold-LT	3827	Golden Brown-Pale
⊕	839	Beige Brown-DK	3787	Brown Gray-DK
↑	452	Shell Gray-MD	644	Beige Gray-MD
↘	370	Mustard-MD	831	Golden Olive-MD
*	3721	Shell Pink-DK	3826	Golden Brown
♣	3721	Shell Pink-DK	3772	Desert Sand-VY DK
⊕	3021	Brown Gray-VY DK	938	Coffee Brown-UL DK

☞	3862	Mocha Beige-DK	632	Desert Sand-UL VY DK
↑	838	Beige Brown-VY DK	869	Hazelnut Brown-VY DK
◎	420	Hazelnut Brown-DK	730	Olive Green-VY DK
■	3371	Black Brown	938	Coffee Brown-UL DK
▨	3857	Rosewood-DK	838	Beige Brown-VY DK
⬆	838	Beige Brown-VY DK	730	Olive Green-VY DK
●	838	Beige Brown-VY DK	938	Coffee Brown-UL DK
☞	730	Olive Green-VY DK	938	Coffee Brown-UL DK
○	838	Beige Brown-VY DK	935	Avocado Green-DK
*	3021	Brown Gray-VY DK	3781	Mocha Brown-DK
←	3857	Rosewood-DK	730	Olive Green-VY DK
⑧	3857	Rosewood-DK	3371	Black Brown
▣	730	Olive Green-VY DK	301	Mahogany-MD
↓	838	Beige Brown-VY DK	3021	Brown Gray-VY DK
✕	838	Beige Brown-VY DK	3781	Mocha Brown-DK
⊗	730	Olive Green-VY DK	831	Golden Olive-MD
⌘	301	Mahogany-MD	830	Golden Olive-DK
⊙	301	Mahogany-MD	3829	Old Gold-VY DK
⇒	3826	Golden Brown	976	Golden Brown-MD
⇐	972	Canary-DK	3852	Straw-VY DK
⊕	976	Golden Brown-MD	3852	Straw-VY DK
↑	612	Drab Brown-LT	831	Golden Olive-MD
✕	3857	Rosewood-DK	3787	Brown Gray-DK
◆	838	Beige Brown-VY DK	413	Pewter Gray-DK
➔	632	Desert Sand-UL VY DK	3857	Rosewood-DK
5	945	Tawny	422	Hazelnut Brown-LT
‡	613	Drab Brown-VY LT	945	Tawny
∫	739	Tan-UL VY LT	422	Hazelnut Brown-LT
9	524	Fern Green-VY LT	738	Tan-VY LT
∇	977	Golden Brown-LT	733	Olive Green-MD
m	3045	Yellow Beige-DK	3046	Yellow Beige-MD
3	3046	Yellow Beige-MD	3827	Golden Brown-Pale
)	745	Yellow-LT Pale	739	Tan-UL VY LT
=	422	Hazelnut Brown-LT	745	Yellow-LT Pale
◇	3346	Hunter Green	3862	Mocha Beige-DK
✱	730	Olive Green-VY DK	830	Golden Olive-DK
⊠	3781	Mocha Brown-DK	730	Olive Green-VY DK
	437	Tan-LT	977	Golden Brown-LT
❖	301	Mahogany-MD	680	Old Gold-DK
★	3828	Hazelnut Brown	3829	Old Gold-VY DK
✕	976	Golden Brown-MD	680	Old Gold-DK
▲	632	Desert Sand-UL VY DK	3787	Brown Gray-DK
⬆	830	Golden Olive-DK	3787	Brown Gray-DK
—	644	Beige Gray-MD	712	Cream
⊕	3787	Brown Gray-DK	3802	Antique Mauve-VY DK
⬆	413	Pewter Gray-DK	3802	Antique Mauve-VY DK
⌘	3862	Mocha Beige-DK	3721	Shell Pink-DK
▲	3787	Brown Gray-DK	3721	Shell Pink-DK
⊕	3721	Shell Pink-DK	3802	Antique Mauve-VY DK
⬆	3826	Golden Brown	3862	Mocha Beige-DK
▼	830	Golden Olive-DK	869	Hazelnut Brown-VY DK
✕	3721	Shell Pink-DK	976	Golden Brown-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	
223	Shell Pink-LT	24	9	23	9	21	8
224	Shell Pink-VY LT	14	5	13	5	12	4
301	Mahogany-MD	867	341	826	325	743	292
370	Mustard-MD	594	233	566	222	509	200
371	Mustard	357	140	340	133	306	120
407	Desert Sand-DK	86	33	82	32	74	29
413	Pewter Gray-DK	1726	679	1644	647	1479	582
420	Hazelnut Brown-DK	852	335	811	319	730	287
422	Hazelnut Brown-LT	810	318	772	303	694	273
436	Tan	239	94	228	89	205	80
437	Tan-LT	307	120	292	114	263	103
451	Shell Gray-DK	77	30	73	28	66	25
452	Shell Gray-MD	93	36	89	35	80	31
520	Fern Green-DK	75	29	72	28	64	25
522	Fern Green	36	14	34	13	31	12
524	Fern Green-VY LT	225	88	215	84	193	75
543	Beige Brown-UL VY LT	178	70	169	66	152	59
611	Drab Brown	599	235	570	224	513	201
612	Drab Brown-LT	745	293	709	279	638	251
613	Drab Brown-VY LT	215	84	205	80	184	72
632	Desert Sand-UL VY DK	1382	544	1316	518	1185	466
640	Beige Gray-VY DK	543	213	517	203	465	183
644	Beige Gray-MD	609	239	580	228	522	205
645	Beaver Gray-VY DK	217	85	206	81	186	73
647	Beaver Gray-MD	61	24	58	22	52	20
680	Old Gold-DK	277	109	264	103	238	93
712	Cream	242	95	230	90	207	81
725	Topaz	83	32	79	31	71	27
726	Topaz-LT	13	5	13	5	11	4
730	Olive Green-VY DK	2530	996	2409	948	2168	853
733	Olive Green-MD	306	120	291	114	262	103
734	Olive Green-LT	193	75	184	72	165	64
738	Tan-VY LT	636	250	606	238	545	214
739	Tan-UL VY LT	615	242	586	230	527	207
743	Yellow-MD	143	56	136	53	123	48
745	Yellow-LT Pale	873	343	832	327	748	294
746	Off White	544	214	518	203	466	183
823	Navy Blue-DK	52	20	49	19	44	17
829	Golden Olive-VY DK	703	276	669	263	602	237
830	Golden Olive-DK	857	337	816	321	735	289
831	Golden Olive-MD	1199	472	1142	449	1027	404
838	Beige Brown-VY DK	4281	1685	4077	1605	3669	1444
839	Beige Brown-DK	1938	762	1846	726	1661	653
869	Hazelnut Brown-VY DK	1388	546	1322	520	1190	468
898	Coffee Brown-VY DK	1505	592	1433	564	1290	507
928	Gray Green-VY LT	21	8	20	7	18	7
935	Avocado Green-DK	431	169	411	161	370	145
938	Coffee Brown-UL DK	6327	2490	6025	2372	5423	2135
945	Tawny	269	105	257	101	231	90
972	Canary-DK	34	13	32	12	29	11
976	Golden Brown-MD	1461	575	1391	547	1252	492
977	Golden Brown-LT	826	325	786	309	708	278
3021	Brown Gray-VY DK	2021	795	1925	757	1732	681
3022	Brown Gray-MD	236	92	224	88	202	79

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3023	Brown Gray-LT	137	53	130	51	117	46
3024	Brown Gray-VY LT	158	62	151	59	136	53
3045	Yellow Beige-DK	612	240	583	229	524	206
3046	Yellow Beige-MD	566	222	539	212	485	190
3053	Green Gray	211	83	201	79	181	71
3078	Golden Yellow-VY LT	373	146	355	139	320	125
3346	Hunter Green	106	41	101	39	91	35
3363	Pine Green-MD	17	6	16	6	15	5
3371	Black Brown	2475	974	2357	927	2121	835
3721	Shell Pink-DK	1285	505	1224	481	1102	433
3740	Antique Violet-DK	176	69	167	65	150	59
3756	Baby Blue-UL VY LT	26	10	25	9	22	8
3772	Desert Sand-VY DK	686	270	653	257	588	231
3774	Desert Sand-VY LT	221	87	211	83	190	74
3781	Mocha Brown-DK	1479	582	1409	554	1268	499
3787	Brown Gray-DK	2740	1078	2610	1027	2349	924
3799	Pewter Gray-VY DK	929	365	885	348	796	313
3802	Antique Mauve-VY DK	1267	498	1207	475	1086	427
3820	Straw-DK	226	88	215	84	194	76
3823	Yellow-UL Pale	820	322	781	307	703	276
3825	Pumpkin-Pale	72	28	69	27	62	24
3826	Golden Brown	786	309	749	294	674	265
3827	Golden Brown-Pale	478	188	455	179	410	161
3828	Hazelnut Brown	799	314	761	299	685	269
3829	Old Gold-VY DK	853	335	812	319	731	287
3852	Straw-VY DK	255	100	243	95	218	85
3854	Autumn Gold-MD	348	137	332	130	299	117
3855	Autumn Gold-LT	833	327	793	312	714	281
3857	Rosewood-DK	1803	709	1718	676	1546	608
3860	Cocoa	652	256	621	244	559	220
3861	Cocoa-LT	163	64	155	61	140	55
3862	Mocha Beige-DK	1863	733	1774	698	1597	628
3864	Mocha Beige-LT	421	165	401	157	360	141
3865	Winter White	61	24	58	22	52	20
Ecru	Ecru	371	146	353	138	318	125

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
223	Shell Pink-LT	38	14	32	12	16	6
224	Shell Pink-VY LT	22	7	18	6	9	3
301	Mahogany-MD	1337	526	1115	438	557	219
370	Mustard-MD	916	360	764	300	382	150
371	Mustard	551	216	459	180	230	90
407	Desert Sand-DK	133	52	111	44	56	22
413	Pewter Gray-DK	2662	1048	2219	873	1109	437
420	Hazelnut Brown-DK	1314	517	1095	431	548	215
422	Hazelnut Brown-LT	1249	491	1041	410	521	205
436	Tan	369	144	308	120	154	60
437	Tan-LT	473	185	395	155	197	77
451	Shell Gray-DK	119	45	99	38	50	19
452	Shell Gray-MD	144	56	120	47	60	23
520	Fern Green-DK	115	45	96	38	48	19
522	Fern Green	56	22	47	18	23	9
524	Fern Green-VY LT	347	135	290	113	145	56
543	Beige Brown-UL VY LT	274	106	228	89	114	44

611	Drab Brown	923	362	770	302	385	151
612	Drab Brown-LT	1148	452	957	377	479	188
613	Drab Brown-VY LT	331	130	276	108	138	54
632	Desert Sand-UL VY DK	2133	839	1778	699	889	350
640	Beige Gray-VY DK	837	329	698	275	349	137
644	Beige Gray-MD	940	369	783	308	392	154
645	Beaver Gray-VY DK	335	131	279	110	140	55
647	Beaver Gray-MD	94	36	78	30	39	15
680	Old Gold-DK	428	167	357	140	179	70
712	Cream	373	146	311	122	155	61
725	Topaz	128	49	107	41	53	20
726	Topaz-LT	20	7	17	6	8	3
730	Olive Green-VY DK	3902	1535	3252	1280	1626	640
733	Olive Green-MD	472	185	393	155	197	77
734	Olive Green-LT	297	115	248	96	124	48
738	Tan-VY LT	981	385	818	321	409	161
739	Tan-UL VY LT	949	373	791	311	395	155
743	Yellow-MD	221	86	185	72	92	36
745	Yellow-LT Pale	1346	529	1122	441	561	221
746	Off White	839	329	699	275	350	137
823	Navy Blue-DK	79	31	66	26	33	13
829	Golden Olive-VY DK	1084	427	903	356	452	178
830	Golden Olive-DK	1323	520	1103	434	551	217
831	Golden Olive-MD	1849	727	1541	606	770	303
838	Beige Brown-VY DK	6604	2599	5504	2166	2752	1083
839	Beige Brown-DK	2990	1175	2492	980	1246	490
869	Hazelnut Brown-VY DK	2142	842	1785	702	893	351
898	Coffee Brown-VY DK	2322	913	1935	761	968	380
928	Gray Green-VY LT	32	13	27	11	14	5
935	Avocado Green-DK	666	261	555	218	278	109
938	Coffee Brown-UL DK	9761	3843	8135	3203	4067	1601
945	Tawny	416	162	347	135	173	68
972	Canary-DK	52	20	44	17	22	8
976	Golden Brown-MD	2254	886	1878	738	939	369
977	Golden Brown-LT	1274	500	1062	417	531	209
3021	Brown Gray-VY DK	3118	1226	2598	1022	1299	511
3022	Brown Gray-MD	364	142	303	119	152	59
3023	Brown Gray-LT	211	83	176	69	88	35
3024	Brown Gray-VY LT	245	95	204	80	102	40
3045	Yellow Beige-DK	943	371	786	309	393	155
3046	Yellow Beige-MD	873	342	728	285	364	143
3053	Green Gray	326	128	272	107	136	53
3078	Golden Yellow-VY LT	576	225	480	188	240	94
3346	Hunter Green	164	63	137	53	68	26
3363	Pine Green-MD	27	9	23	8	11	4
3371	Black Brown	3818	1503	3182	1253	1591	626
3721	Shell Pink-DK	1984	779	1653	650	827	325
3740	Antique Violet-DK	270	106	225	89	113	44
3756	Baby Blue-UL VY LT	40	14	33	12	17	6
3772	Desert Sand-VY DK	1058	416	882	347	441	173
3774	Desert Sand-VY LT	342	133	285	111	143	56
3781	Mocha Brown-DK	2282	898	1902	749	951	374
3787	Brown Gray-DK	4228	1663	3524	1386	1762	693
3799	Pewter Gray-VY DK	1433	563	1194	470	597	235
3802	Antique Mauve-VY DK	1955	769	1629	641	815	320
3820	Straw-DK	349	137	291	114	146	57
3823	Yellow-UL Pale	1265	497	1055	414	527	207
3825	Pumpkin-Pale	112	43	93	36	47	18
3826	Golden Brown	1213	477	1011	398	506	199

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3827	Golden Brown-Pale	738	290	615	242	308	121
3828	Hazelnut Brown	1233	484	1028	404	514	202
3829	Old Gold-VY DK	1316	517	1097	431	548	215
3852	Straw-VY DK	392	153	327	128	164	64
3854	Autumn Gold-MD	538	211	449	176	224	88
3855	Autumn Gold-LT	1285	506	1071	422	536	211
3857	Rosewood-DK	2783	1094	2319	912	1160	456
3860	Cocoa	1006	396	839	330	419	165
3861	Cocoa-LT	252	99	210	83	105	41
3862	Mocha Beige-DK	2875	1130	2396	942	1198	471
3864	Mocha Beige-LT	648	254	540	212	270	106
3865	Winter White	94	36	78	30	39	15
Ecrú	Ecrú	572	225	477	188	239	94

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
223	Shell Pink-LT	15	6	15	6	14	5
224	Shell Pink-VY LT	9	3	8	3	8	3
301	Mahogany-MD	535	210	514	202	495	195
370	Mustard-MD	366	144	352	138	339	133
371	Mustard	220	86	212	83	204	80
407	Desert Sand-DK	53	21	51	20	49	19
413	Pewter Gray-DK	1065	419	1024	403	986	388
420	Hazelnut Brown-DK	526	207	505	199	487	191
422	Hazelnut Brown-LT	500	197	480	189	463	182
436	Tan	148	58	142	55	137	53
437	Tan-LT	189	74	182	71	175	69
451	Shell Gray-DK	48	18	46	17	44	17
452	Shell Gray-MD	58	22	55	21	53	21
520	Fern Green-DK	46	18	44	17	43	17
522	Fern Green	22	9	21	8	21	8
524	Fern Green-VY LT	139	54	134	52	129	50
543	Beige Brown-UL VY LT	109	42	105	41	101	39
611	Drab Brown	369	145	355	139	342	134
612	Drab Brown-LT	459	181	442	174	425	167
613	Drab Brown-VY LT	132	52	127	50	123	48
632	Desert Sand-UL VY DK	853	336	820	323	790	311
640	Beige Gray-VY DK	335	132	322	127	310	122
644	Beige Gray-MD	376	148	361	142	348	137
645	Beaver Gray-VY DK	134	53	129	51	124	49
647	Beaver Gray-MD	37	14	36	14	35	13
680	Old Gold-DK	171	67	165	64	159	62
712	Cream	149	58	143	56	138	54
725	Topaz	51	19	49	19	47	18
726	Topaz-LT	8	3	8	3	7	3
730	Olive Green-VY DK	1561	614	1501	591	1445	569
733	Olive Green-MD	189	74	181	71	175	69
734	Olive Green-LT	119	46	114	44	110	43
738	Tan-VY LT	392	154	377	148	363	143
739	Tan-UL VY LT	379	149	365	143	351	138
743	Yellow-MD	89	35	85	33	82	32
745	Yellow-LT Pale	539	212	518	204	499	196
746	Off White	336	132	323	127	311	122
823	Navy Blue-DK	32	12	30	12	29	11
829	Golden Olive-VY DK	433	171	417	164	401	158

830	Golden Olive-DK	529	208	509	200	490	193
831	Golden Olive-MD	739	291	711	280	685	269
838	Beige Brown-VY DK	2642	1040	2540	1000	2446	963
839	Beige Brown-DK	1196	470	1150	452	1107	435
869	Hazelnut Brown-VY DK	857	337	824	324	793	312
898	Coffee Brown-VY DK	929	365	893	351	860	338
928	Gray Green-VY LT	13	5	12	5	12	5
935	Avocado Green-DK	266	104	256	100	247	97
938	Coffee Brown-UL DK	3905	1537	3754	1478	3615	1423
945	Tawny	166	65	160	62	154	60
972	Canary-DK	21	8	20	8	19	7
976	Golden Brown-MD	901	354	867	341	835	328
977	Golden Brown-LT	510	200	490	192	472	185
3021	Brown Gray-VY DK	1247	490	1199	471	1155	454
3022	Brown Gray-MD	145	57	140	55	135	53
3023	Brown Gray-LT	84	33	81	32	78	31
3024	Brown Gray-VY LT	98	38	94	37	91	35
3045	Yellow Beige-DK	377	148	363	143	349	137
3046	Yellow Beige-MD	349	137	336	132	323	127
3053	Green Gray	130	51	125	49	121	47
3078	Golden Yellow-VY LT	230	90	222	87	213	83
3346	Hunter Green	66	25	63	24	61	23
3363	Pine Green-MD	11	4	10	3	10	3
3371	Black Brown	1527	601	1468	578	1414	557
3721	Shell Pink-DK	793	312	763	300	735	289
3740	Antique Violet-DK	108	42	104	41	100	39
3756	Baby Blue-UL VY LT	16	6	15	6	15	5
3772	Desert Sand-VY DK	423	166	407	160	392	154
3774	Desert Sand-VY LT	137	53	132	51	127	49
3781	Mocha Brown-DK	913	359	878	345	845	333
3787	Brown Gray-DK	1691	665	1626	640	1566	616
3799	Pewter Gray-VY DK	573	225	551	217	531	209
3802	Antique Mauve-VY DK	782	307	752	296	724	285
3820	Straw-DK	140	55	134	53	129	51
3823	Yellow-UL Pale	506	199	487	191	469	184
3825	Pumpkin-Pale	45	17	43	17	41	16
3826	Golden Brown	485	191	467	183	449	177
3827	Golden Brown-Pale	295	116	284	111	273	107
3828	Hazelnut Brown	493	194	474	186	457	179
3829	Old Gold-VY DK	526	207	506	199	487	191
3852	Straw-VY DK	157	61	151	59	145	57
3854	Autumn Gold-MD	215	84	207	81	199	78
3855	Autumn Gold-LT	514	202	494	195	476	187
3857	Rosewood-DK	1113	438	1070	421	1031	405
3860	Cocoa	402	158	387	152	373	147
3861	Cocoa-LT	101	40	97	38	93	37
3862	Mocha Beige-DK	1150	452	1106	435	1065	419
3864	Mocha Beige-LT	259	102	249	98	240	94
3865	Winter White	37	14	36	14	35	13
Ecru	Ecru	229	90	220	87	212	83

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
223	Shell Pink-LT	14	5	13	5	12	5
224	Shell Pink-VY LT	8	3	7	2	7	2
301	Mahogany-MD	478	188	446	175	418	164

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370	Mustard-MD	327	129	305	120	286	113
371	Mustard	197	77	184	72	172	68
407	Desert Sand-DK	48	19	44	17	42	16
413	Pewter Gray-DK	951	374	887	349	832	327
420	Hazelnut Brown-DK	469	185	438	172	411	161
422	Hazelnut Brown-LT	446	176	416	164	390	154
436	Tan	132	51	123	48	115	45
437	Tan-LT	169	66	158	62	148	58
451	Shell Gray-DK	42	16	40	15	37	14
452	Shell Gray-MD	51	20	48	19	45	17
520	Fern Green-DK	41	16	38	15	36	14
522	Fern Green	20	8	19	7	17	7
524	Fern Green-VY LT	124	48	116	45	109	42
543	Beige Brown-UL VY LT	98	38	91	35	86	33
611	Drab Brown	330	129	308	121	289	113
612	Drab Brown-LT	410	161	383	151	359	141
613	Drab Brown-VY LT	118	46	110	43	104	41
632	Desert Sand-UL VY DK	762	300	711	280	667	262
640	Beige Gray-VY DK	299	118	279	110	262	103
644	Beige Gray-MD	336	132	313	123	294	115
645	Beaver Gray-VY DK	120	47	112	44	105	41
647	Beaver Gray-MD	33	13	31	12	29	11
680	Old Gold-DK	153	60	143	56	134	52
712	Cream	133	52	124	49	116	46
725	Topaz	46	17	43	16	40	15
726	Topaz-LT	7	3	7	2	6	2
730	Olive Green-VY DK	1394	548	1301	512	1220	480
733	Olive Green-MD	168	66	157	62	147	58
734	Olive Green-LT	106	41	99	38	93	36
738	Tan-VY LT	350	138	327	128	307	120
739	Tan-UL VY LT	339	133	316	124	296	116
743	Yellow-MD	79	31	74	29	69	27
745	Yellow-LT Pale	481	189	449	176	421	165
746	Off White	300	118	280	110	262	103
823	Navy Blue-DK	28	11	26	10	25	10
829	Golden Olive-VY DK	387	152	361	142	339	133
830	Golden Olive-DK	473	186	441	173	413	163
831	Golden Olive-MD	660	260	616	242	578	227
838	Beige Brown-VY DK	2359	928	2201	866	2064	812
839	Beige Brown-DK	1068	420	997	392	934	367
869	Hazelnut Brown-VY DK	765	301	714	281	669	263
898	Coffee Brown-VY DK	829	326	774	304	726	285
928	Gray Green-VY LT	12	5	11	4	10	4
935	Avocado Green-DK	238	93	222	87	208	82
938	Coffee Brown-UL DK	3486	1373	3254	1281	3050	1201
945	Tawny	149	58	139	54	130	51
972	Canary-DK	19	7	17	7	16	6
976	Golden Brown-MD	805	316	751	295	704	277
977	Golden Brown-LT	455	179	425	167	398	156
3021	Brown Gray-VY DK	1113	438	1039	409	974	383
3022	Brown Gray-MD	130	51	121	47	114	44
3023	Brown Gray-LT	75	30	70	28	66	26
3024	Brown Gray-VY LT	87	34	82	32	77	30
3045	Yellow Beige-DK	337	132	314	124	295	116
3046	Yellow Beige-MD	312	122	291	114	273	107
3053	Green Gray	116	46	109	43	102	40
3078	Golden Yellow-VY LT	206	80	192	75	180	70
3346	Hunter Green	59	23	55	21	51	20
3363	Pine Green-MD	10	3	9	3	8	3

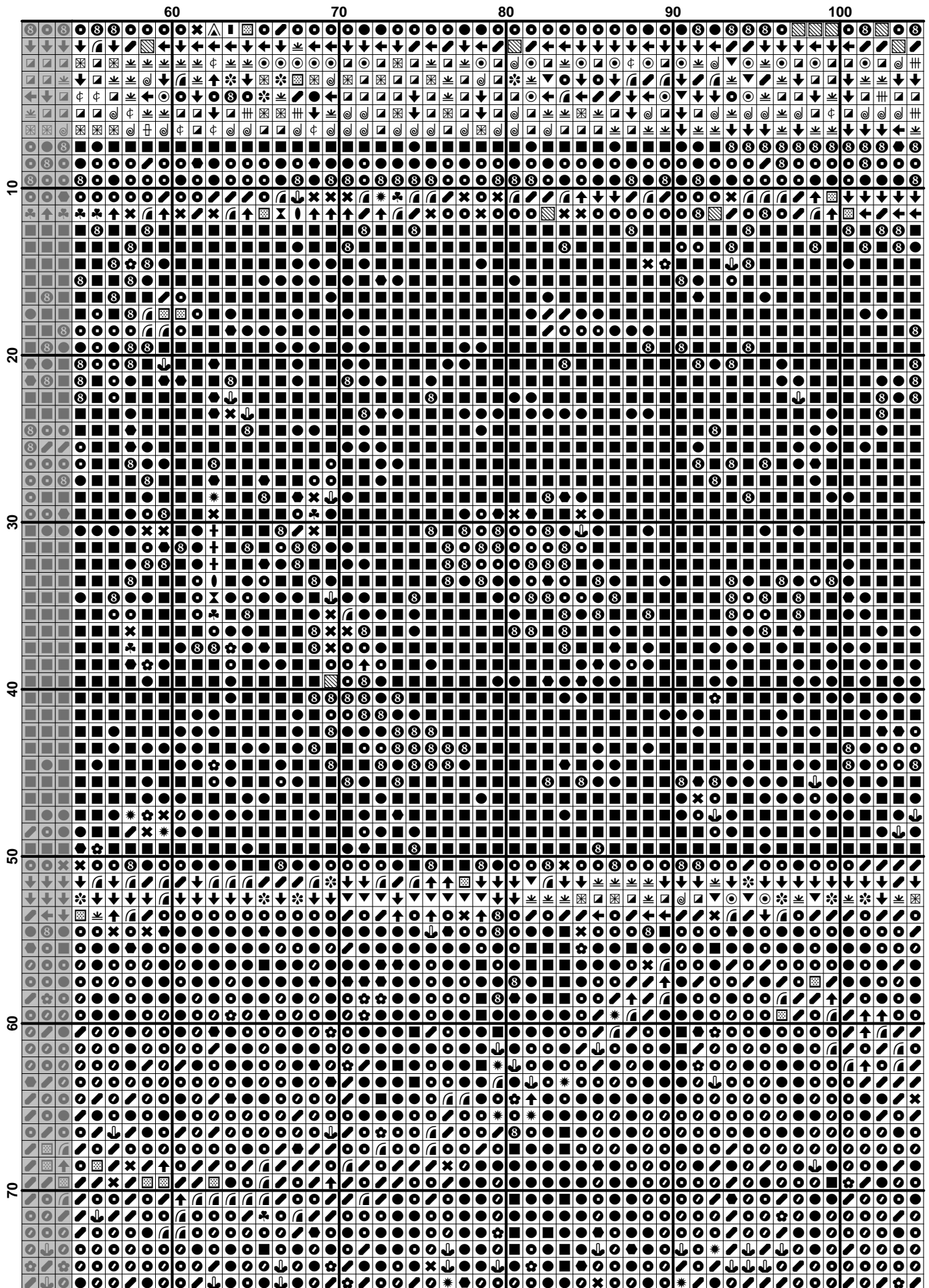
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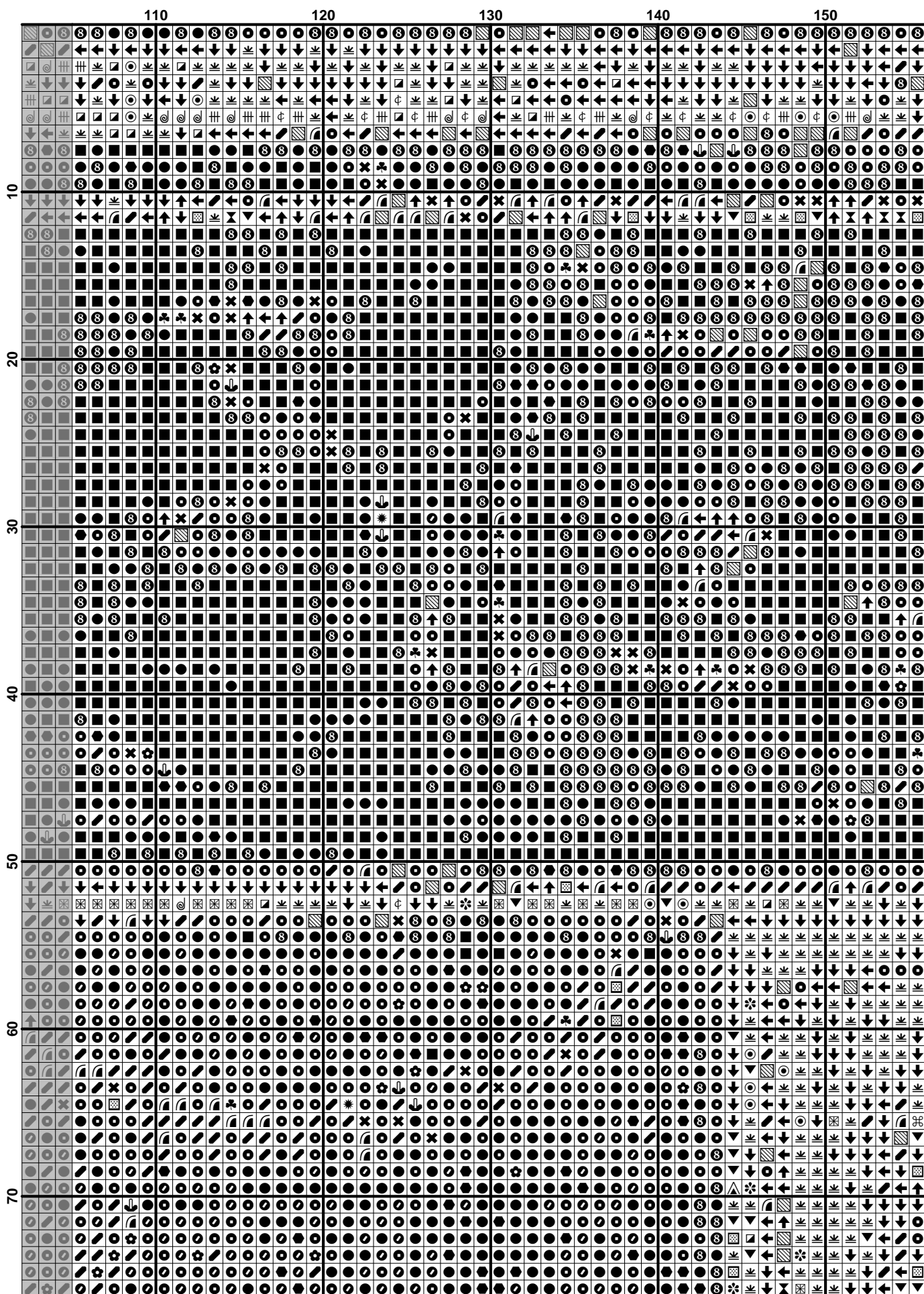
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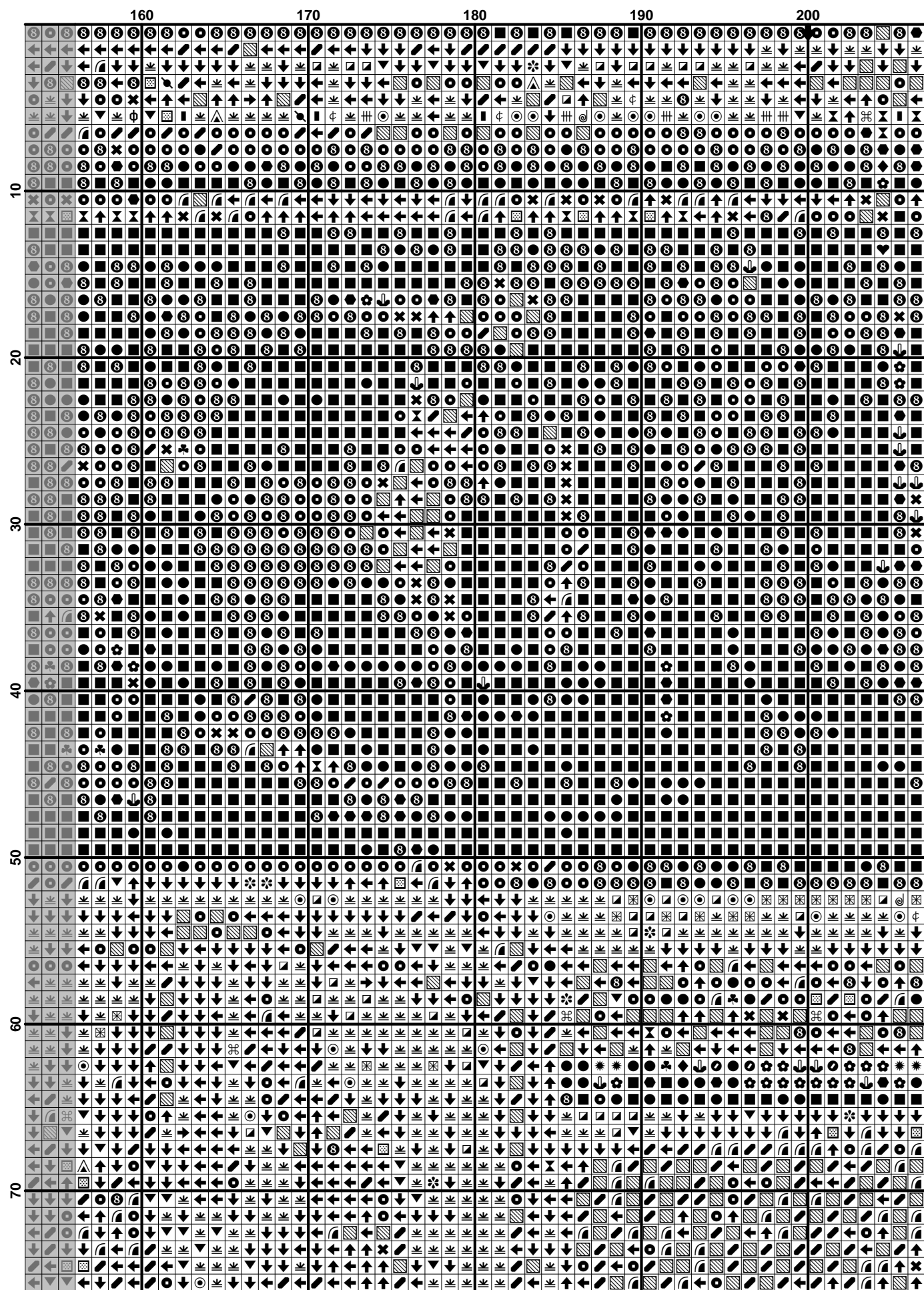
3371	Black Brown	1364	537	1273	501	1193	470
3721	Shell Pink-DK	708	278	661	260	620	244
3740	Antique Violet-DK	96	38	90	35	84	33
3756	Baby Blue-UL VY LT	14	5	13	5	12	5
3772	Desert Sand-VY DK	378	149	353	139	331	130
3774	Desert Sand-VY LT	122	48	114	44	107	42
3781	Mocha Brown-DK	815	321	761	299	713	281
3787	Brown Gray-DK	1510	594	1409	554	1321	520
3799	Pewter Gray-VY DK	512	201	478	188	448	176
3802	Antique Mauve-VY DK	698	275	652	256	611	240
3820	Straw-DK	125	49	116	46	109	43
3823	Yellow-UL Pale	452	177	422	166	395	155
3825	Pumpkin-Pale	40	15	37	14	35	14
3826	Golden Brown	433	170	404	159	379	149
3827	Golden Brown-Pale	264	104	246	97	231	91
3828	Hazelnut Brown	440	173	411	161	385	151
3829	Old Gold-VY DK	470	185	439	172	411	161
3852	Straw-VY DK	140	55	131	51	123	48
3854	Autumn Gold-MD	192	75	179	70	168	66
3855	Autumn Gold-LT	459	181	428	169	402	158
3857	Rosewood-DK	994	391	928	365	870	342
3860	Cocoa	359	141	335	132	314	124
3861	Cocoa-LT	90	35	84	33	79	31
3862	Mocha Beige-DK	1027	404	958	377	898	353
3864	Mocha Beige-LT	231	91	216	85	203	79
3865	Winter White	33	13	31	12	29	11
Ecru	Ecru	204	80	191	75	179	70

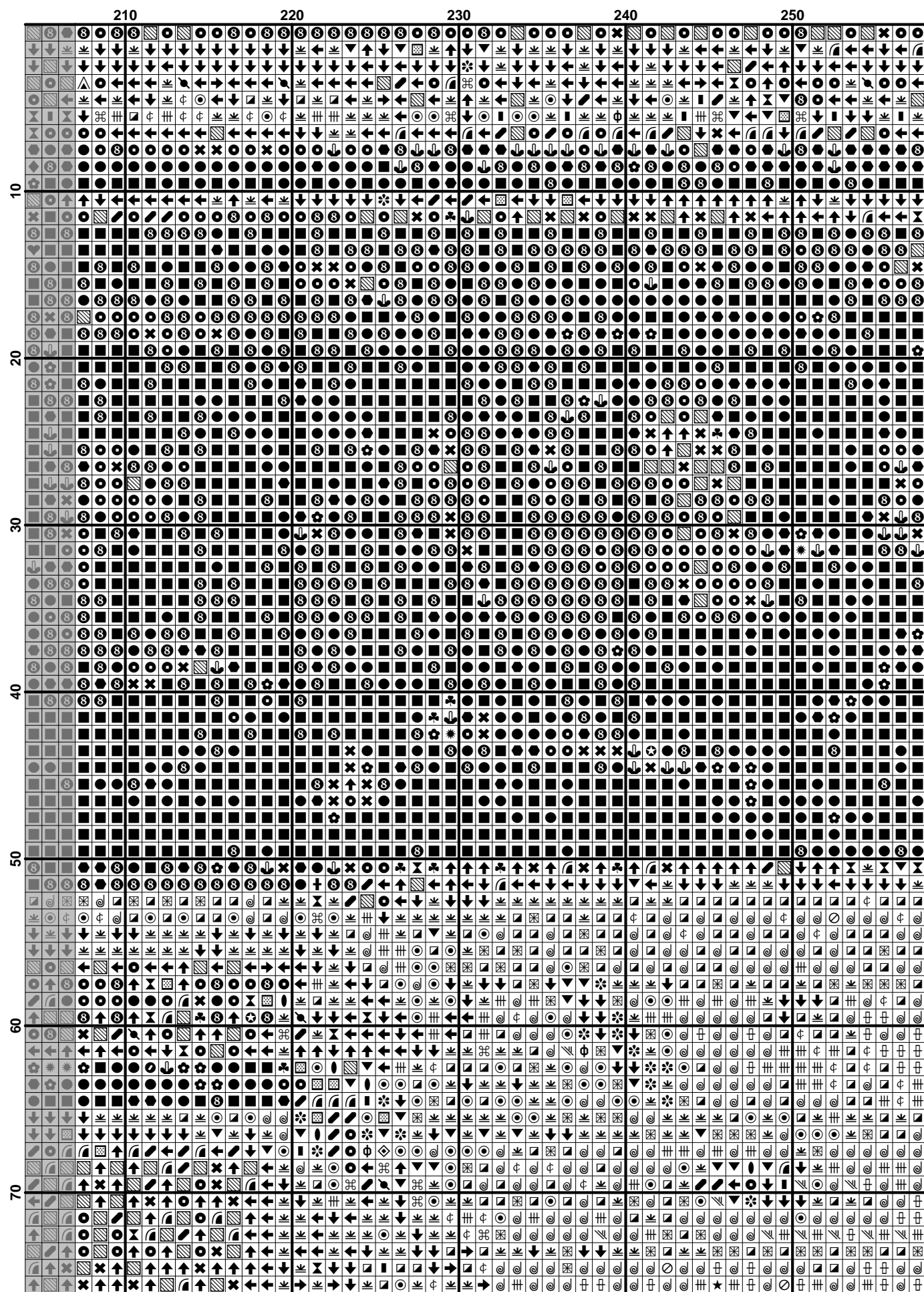


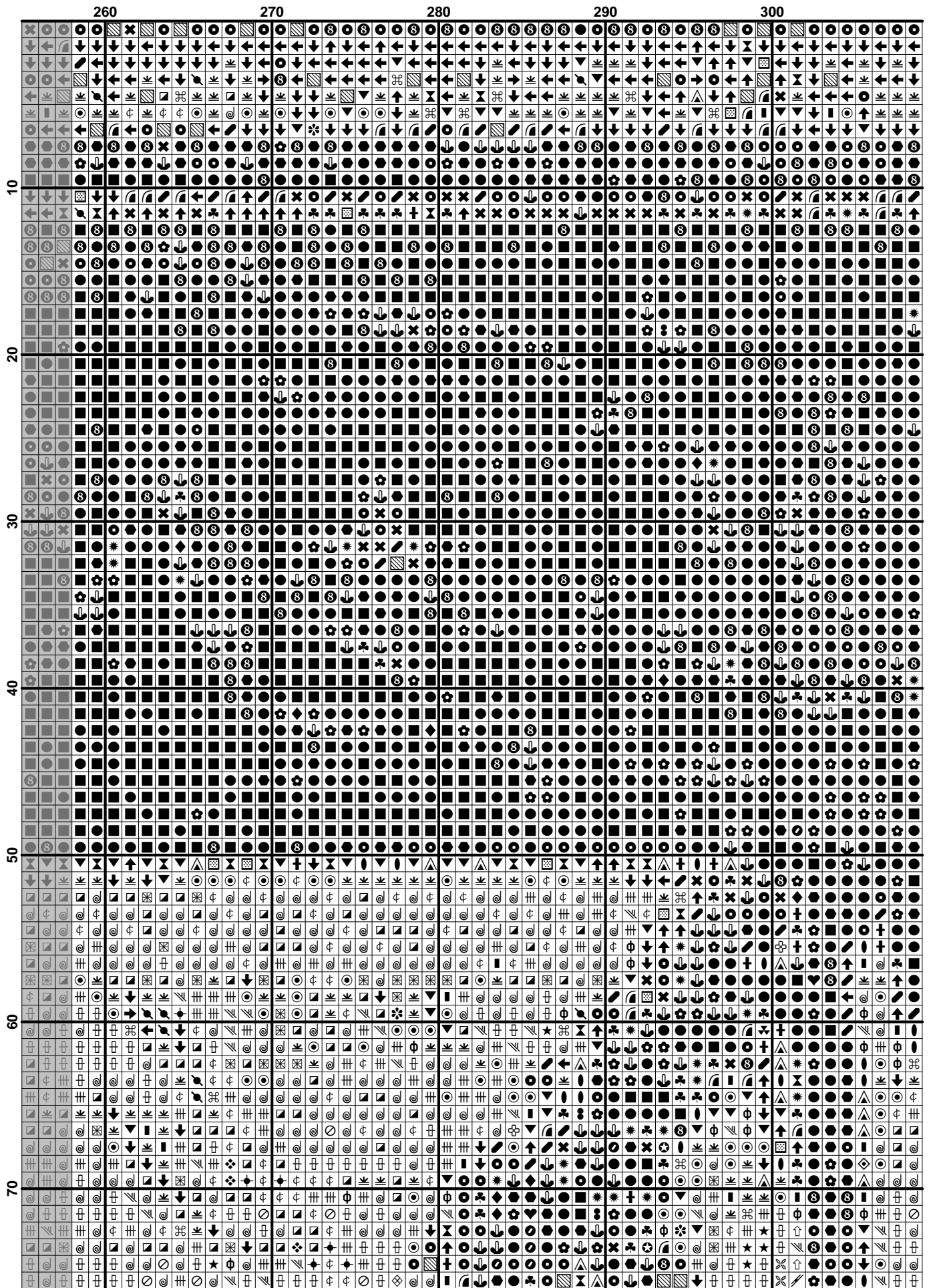


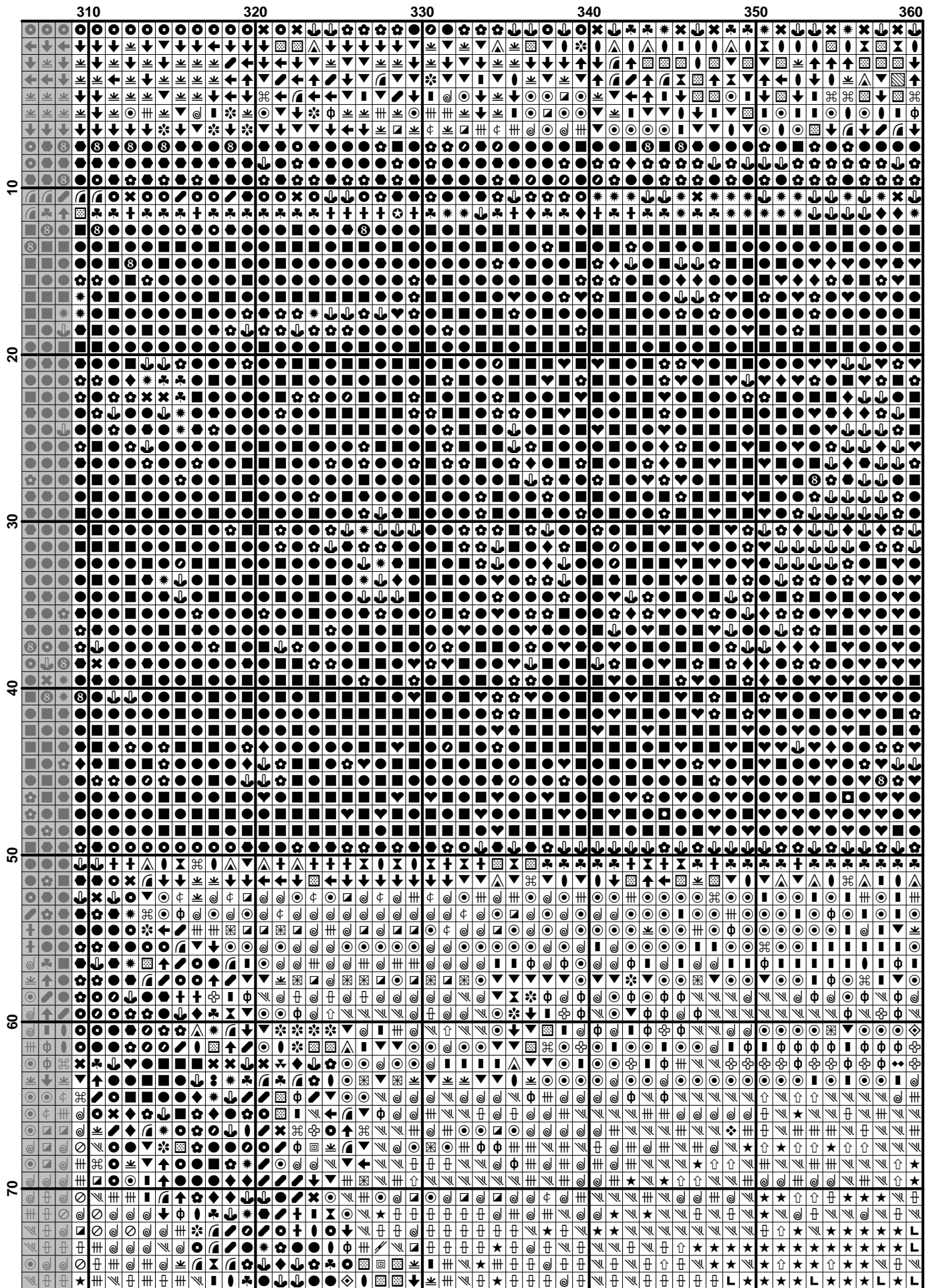


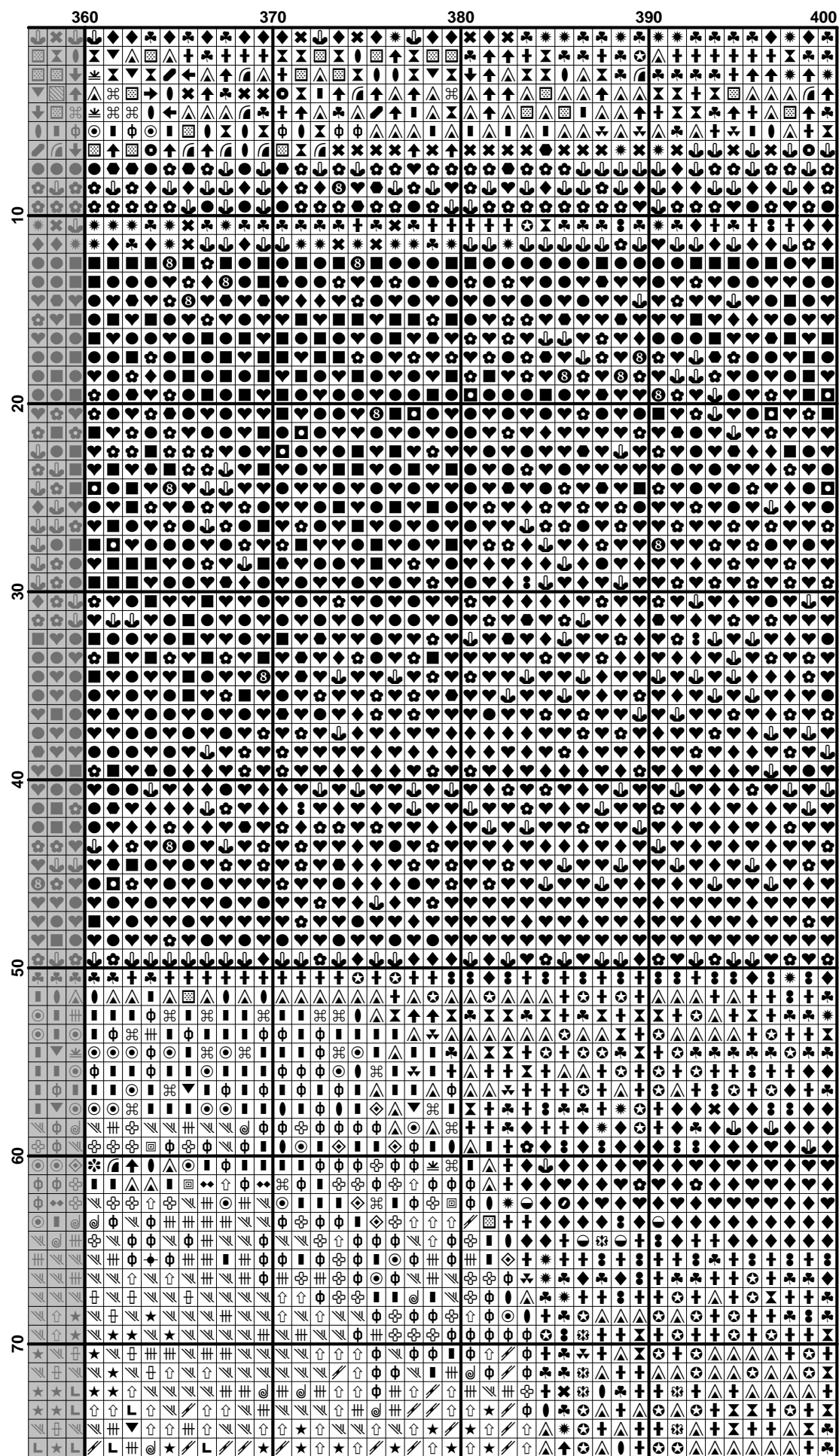




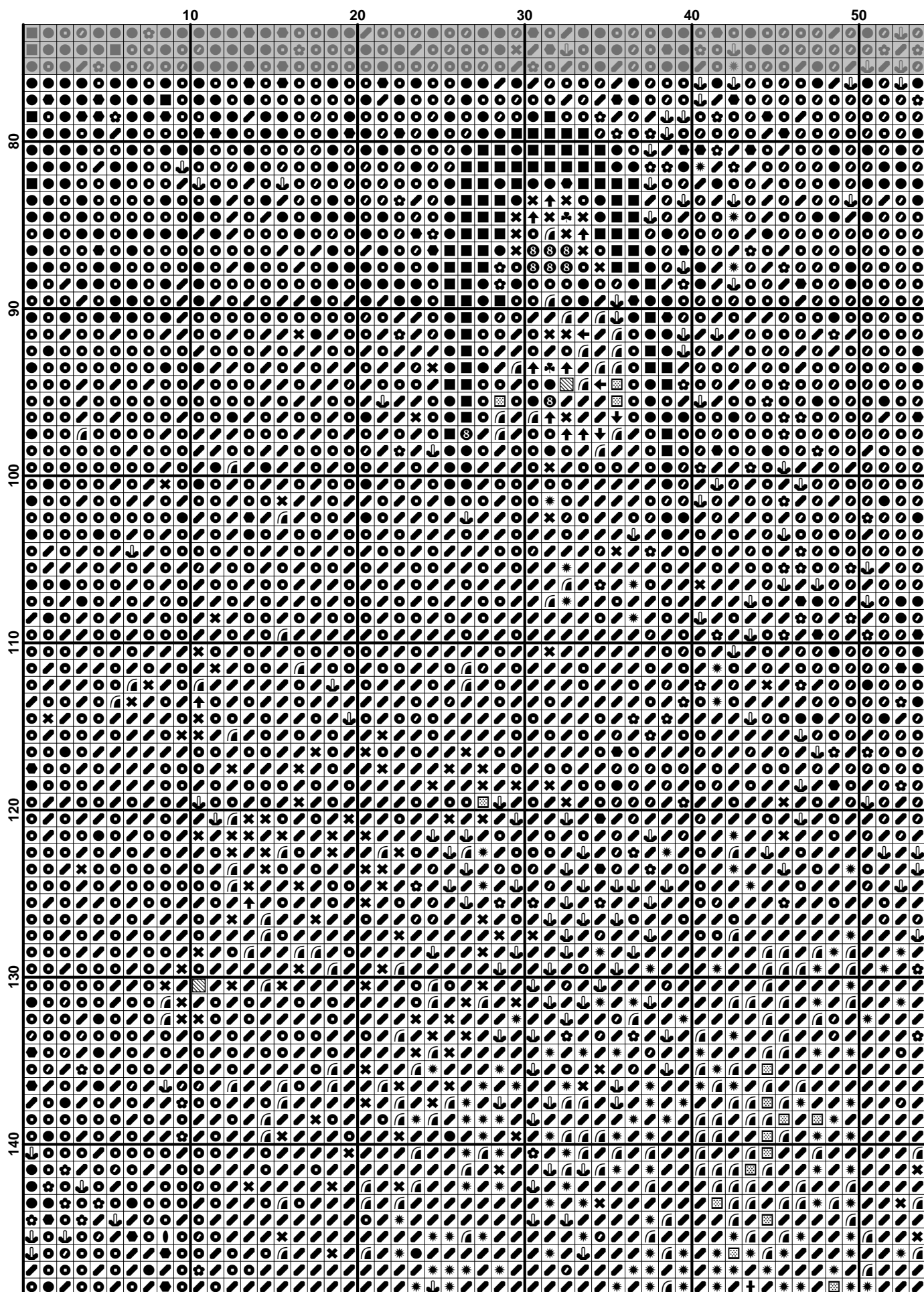


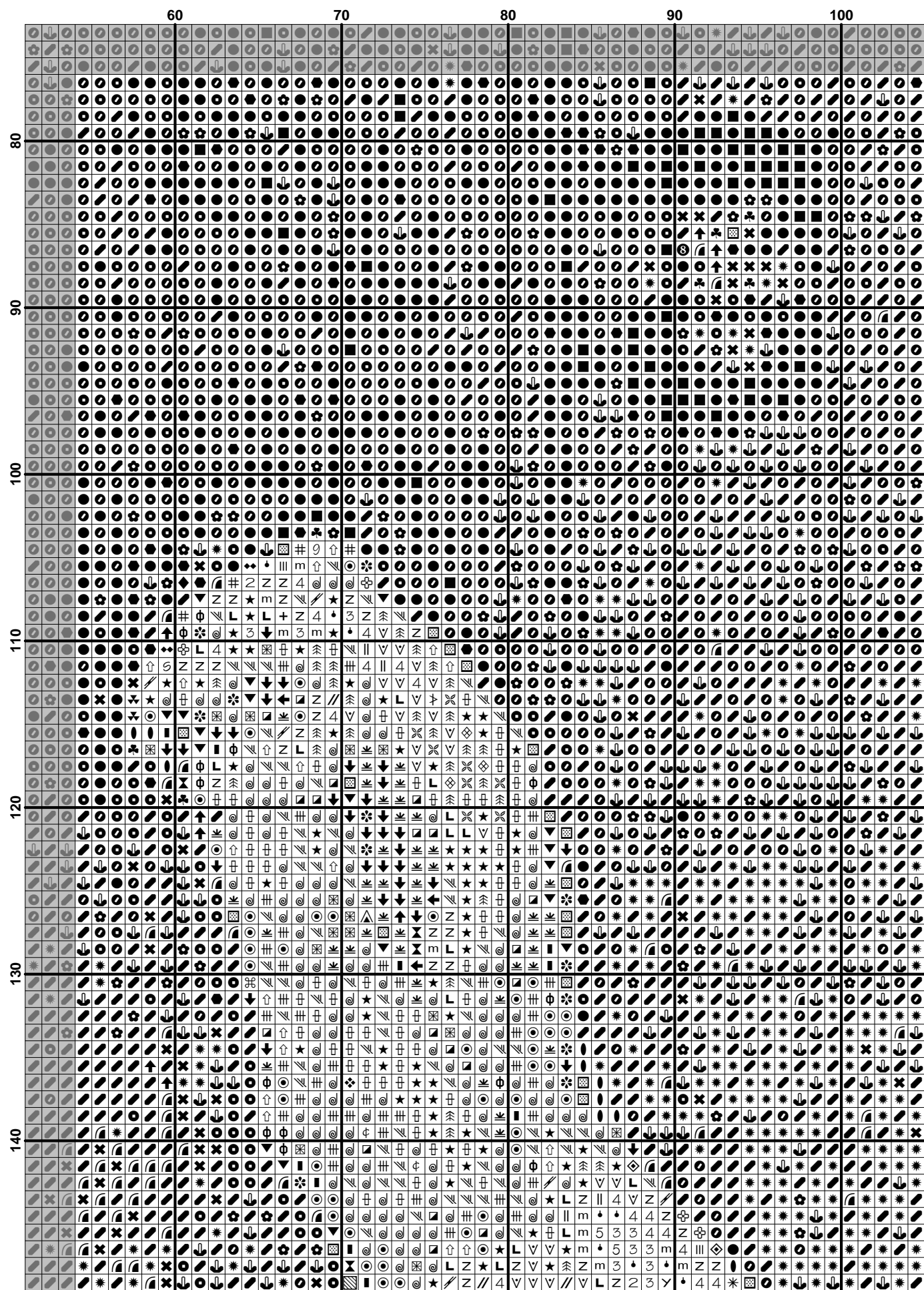


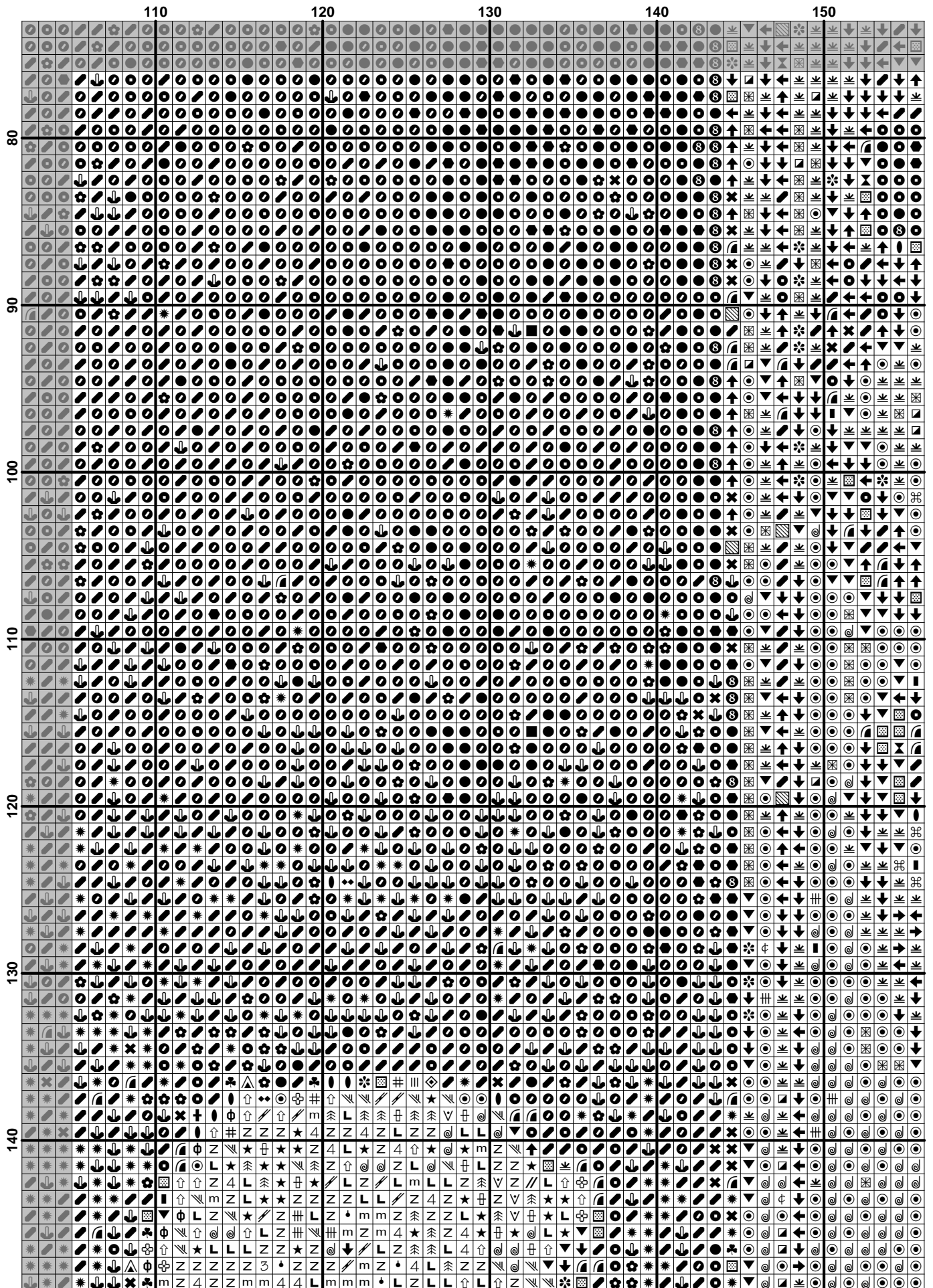


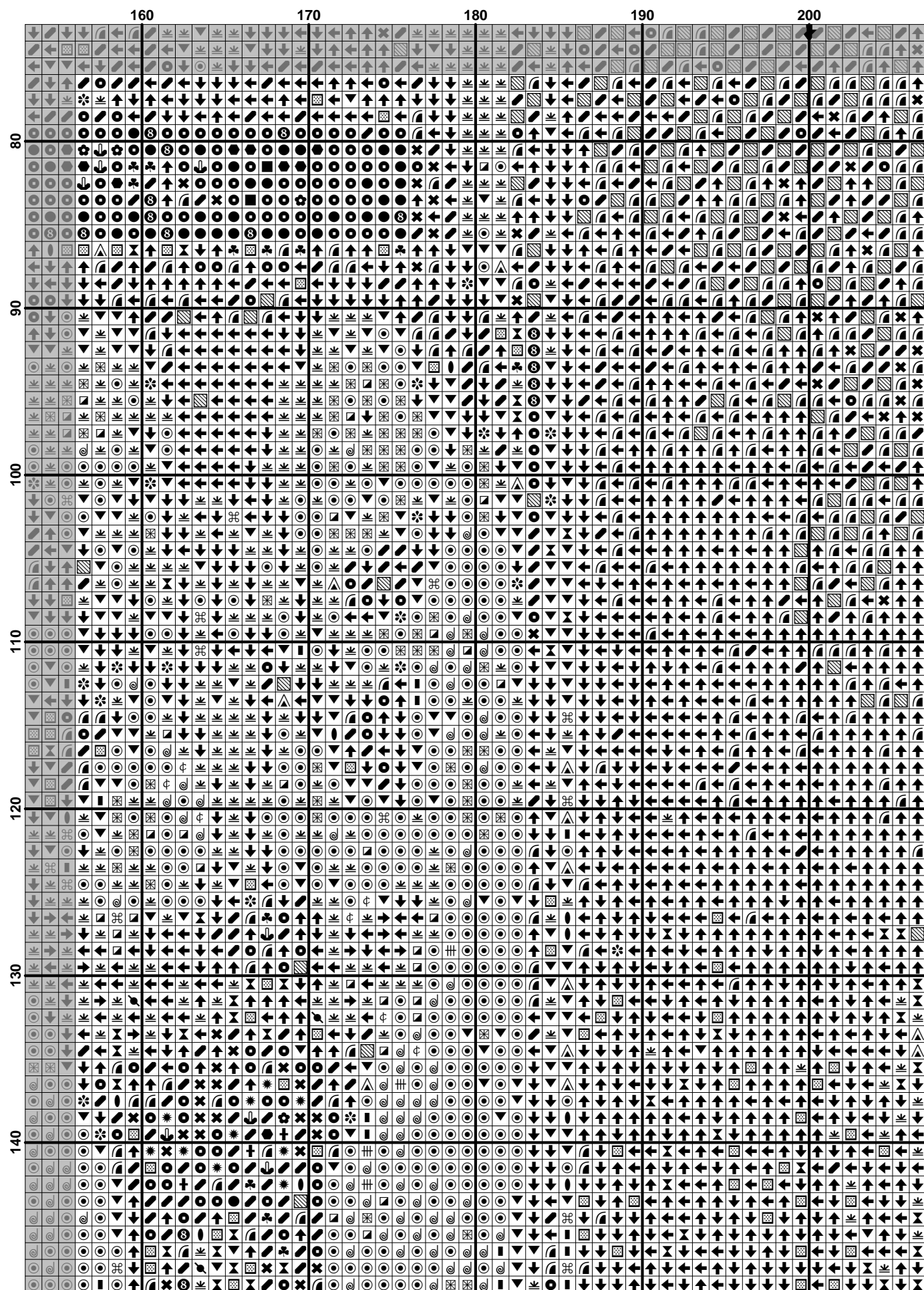


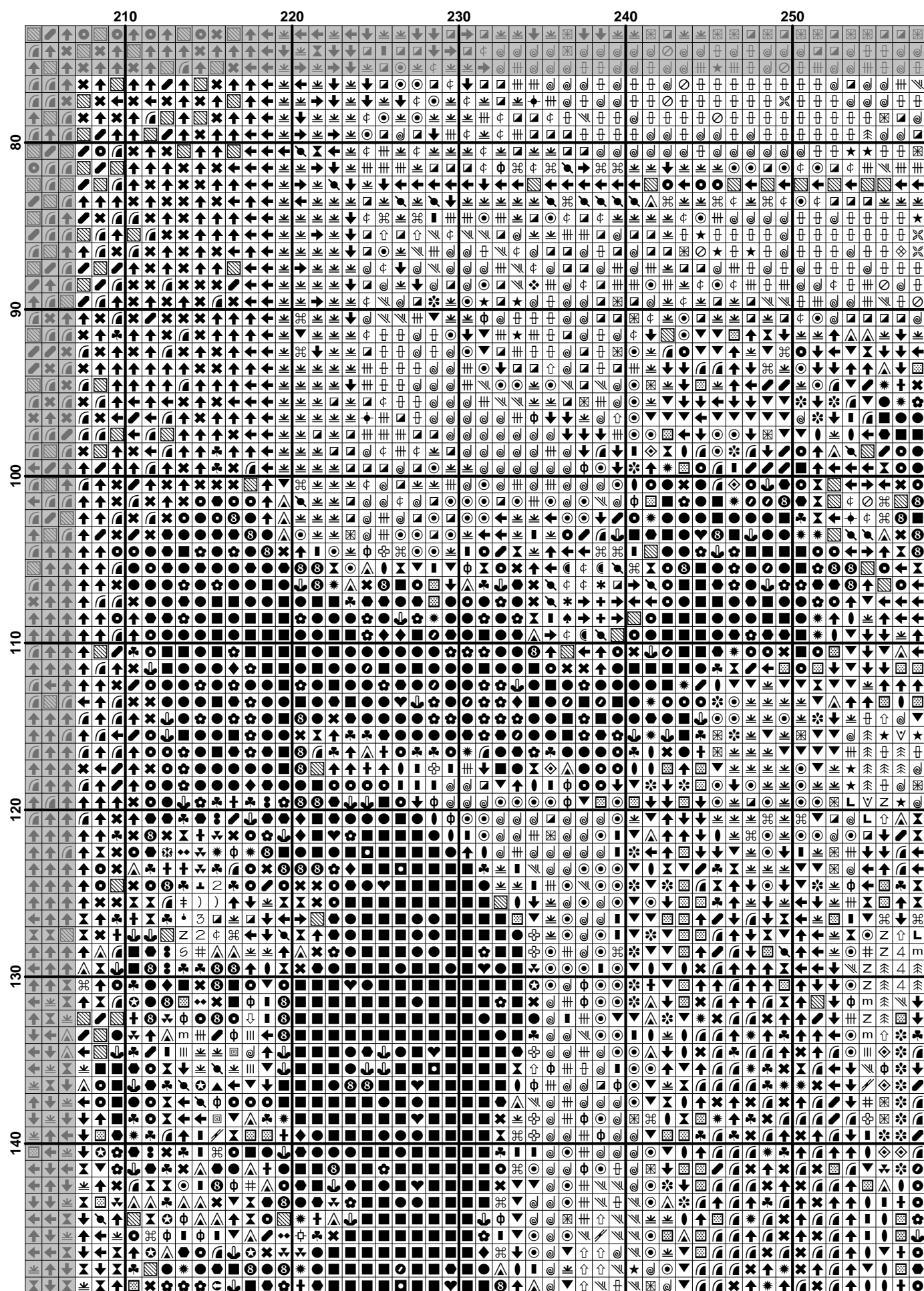


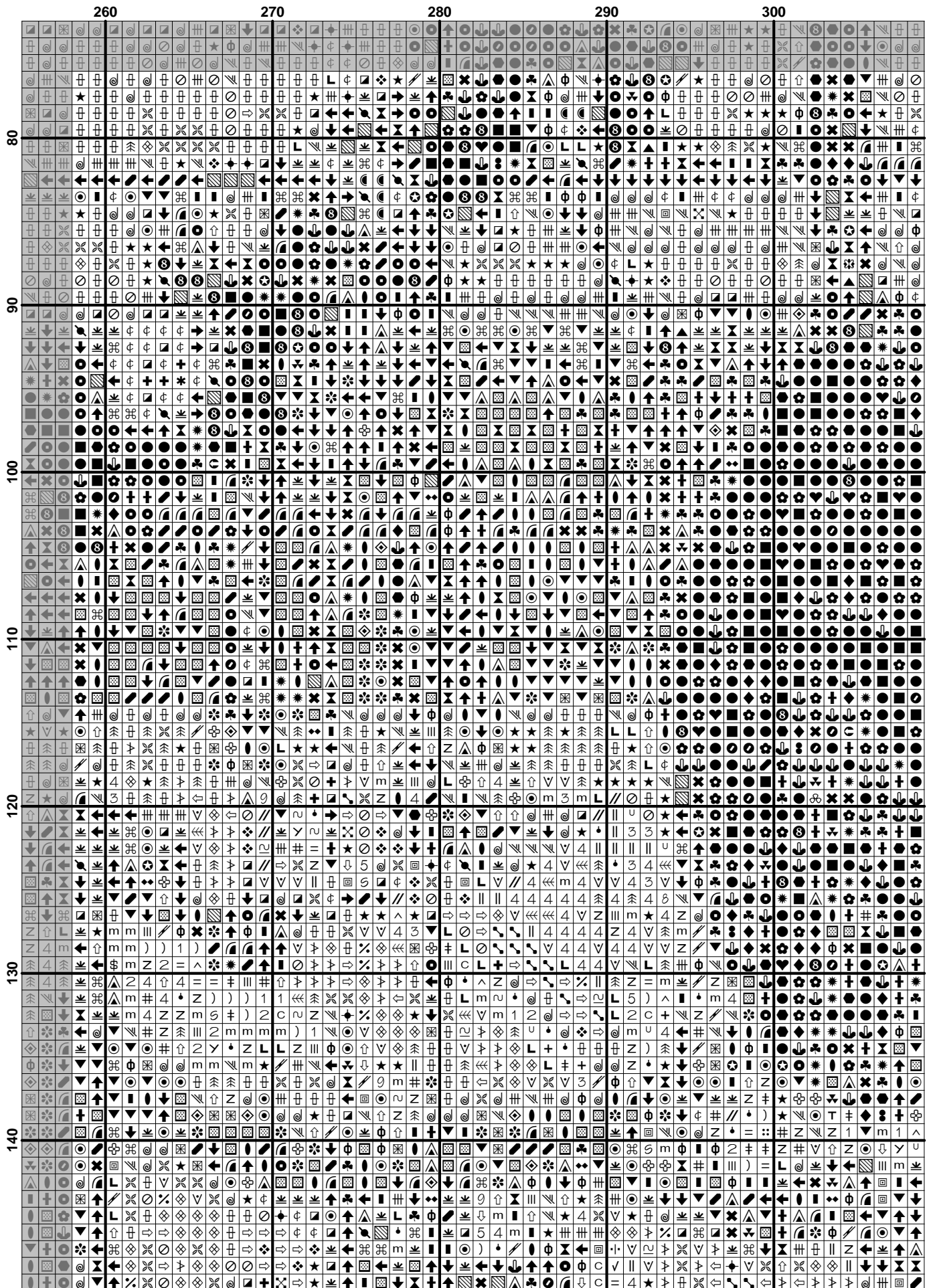




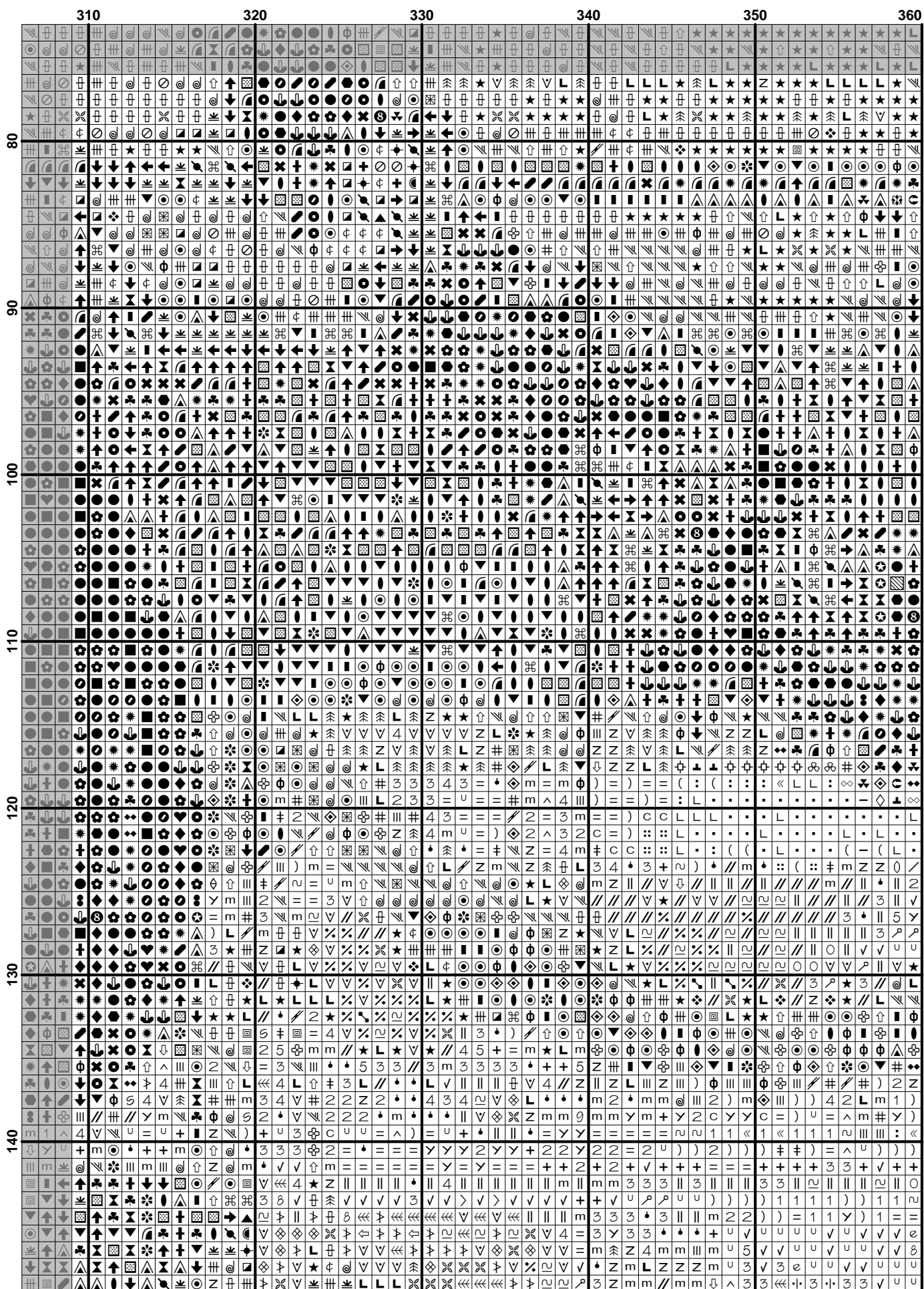


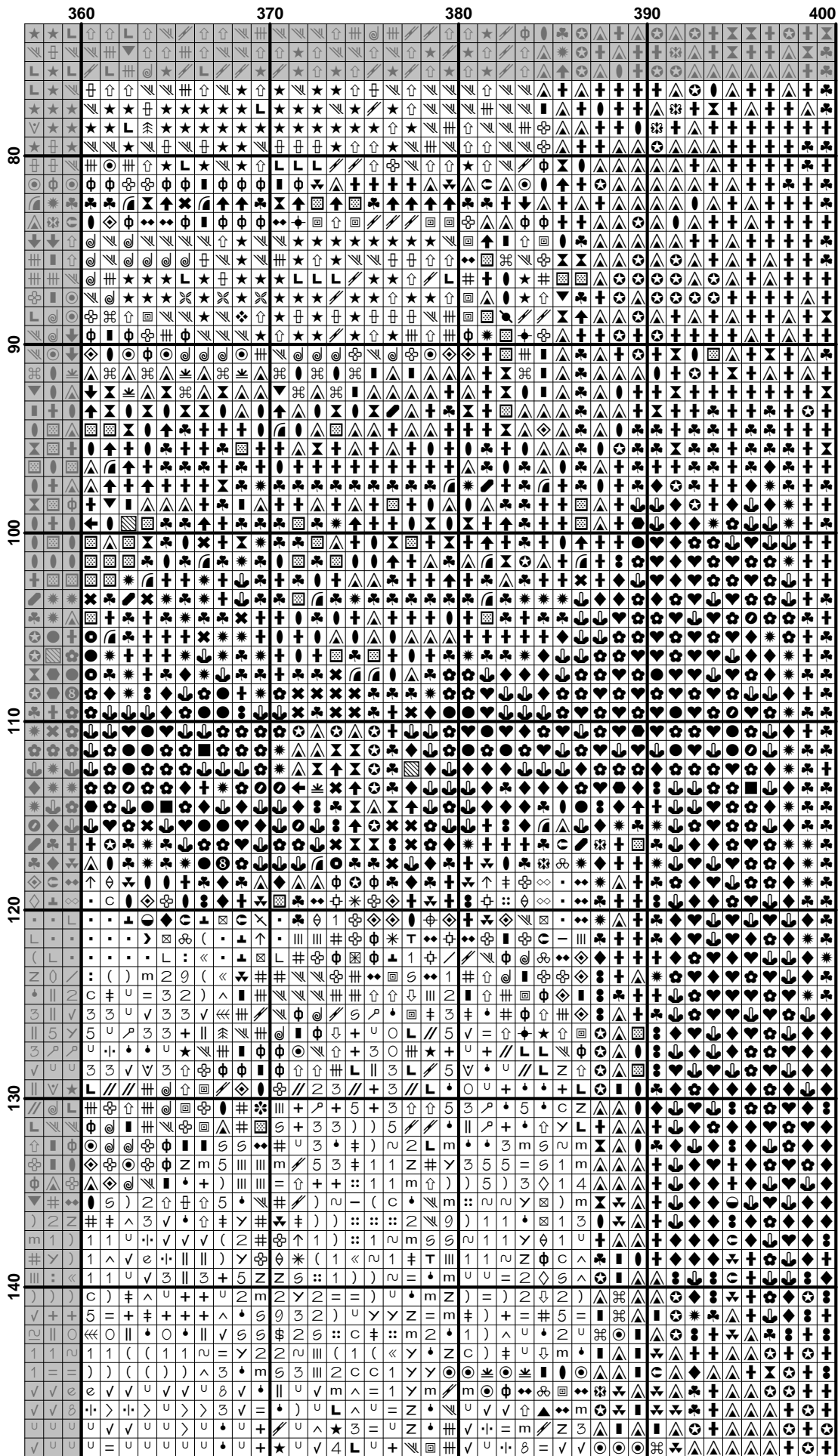


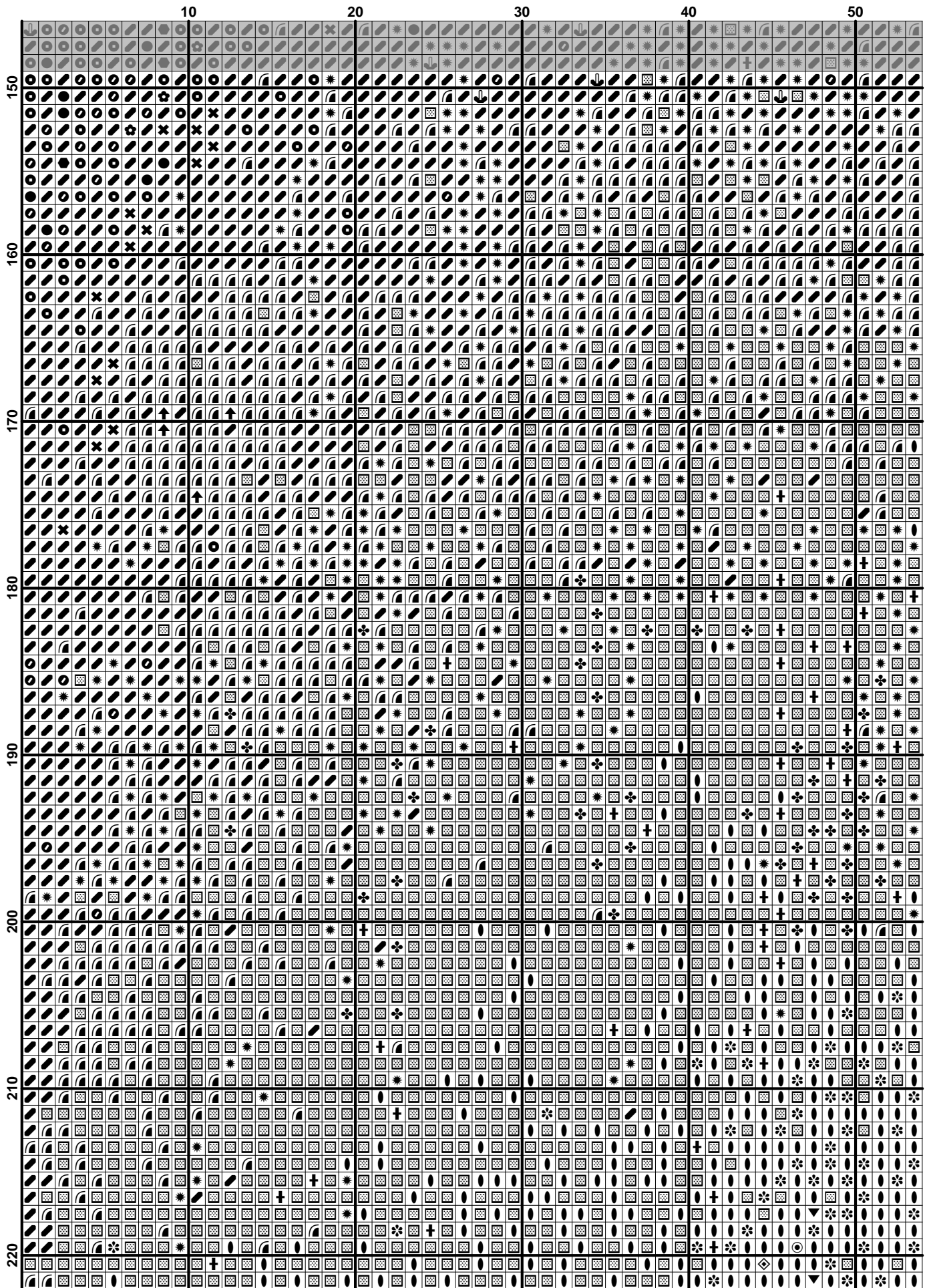


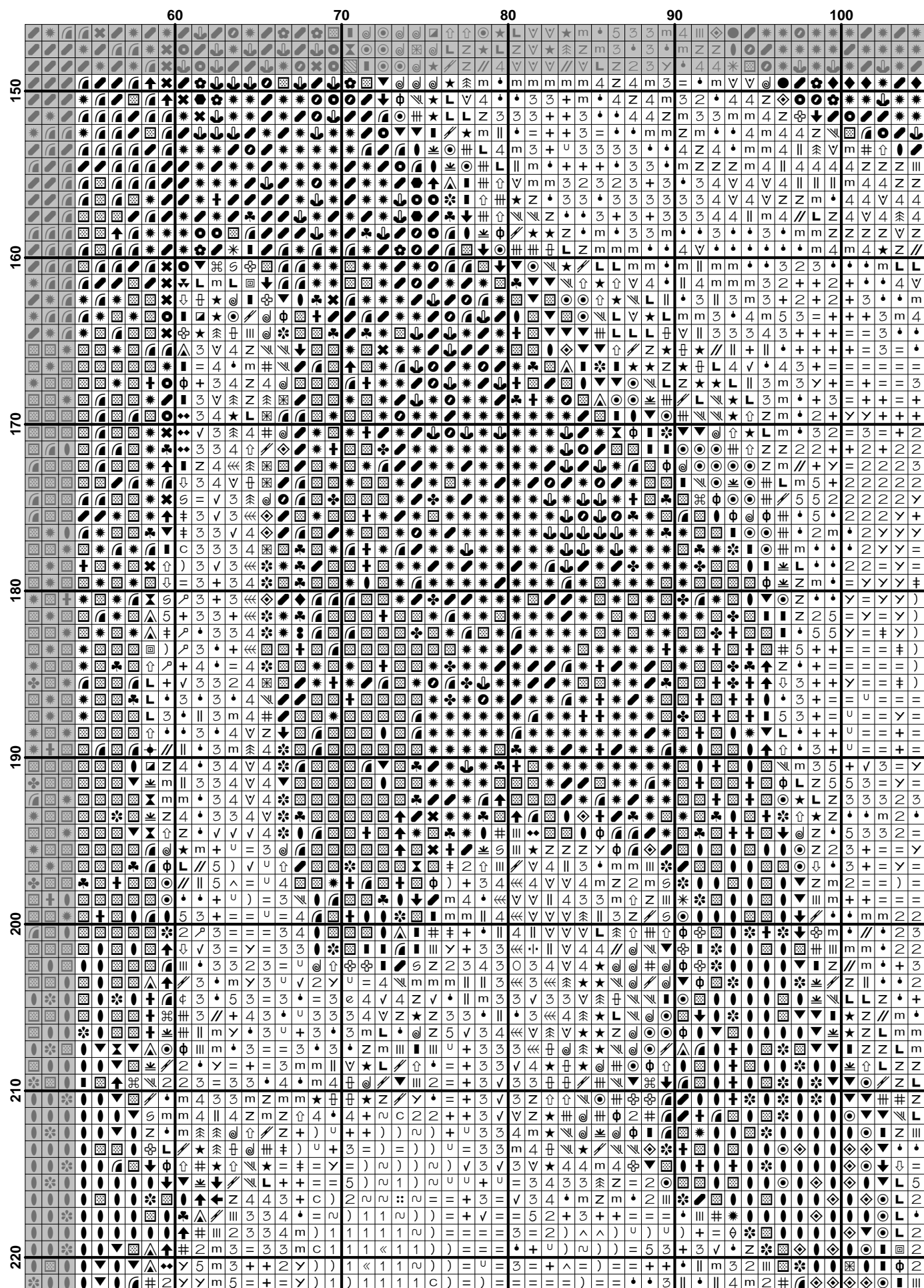




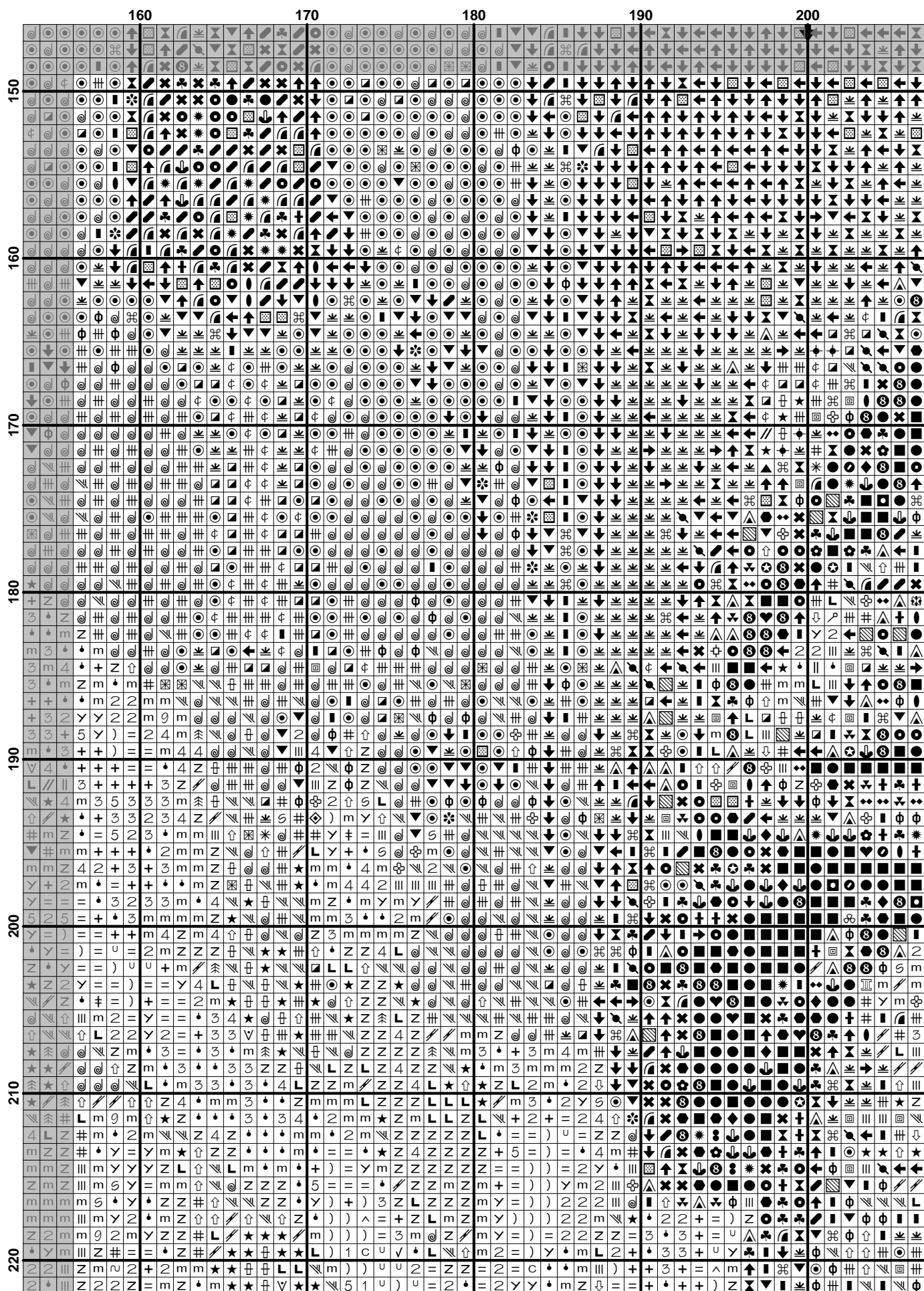




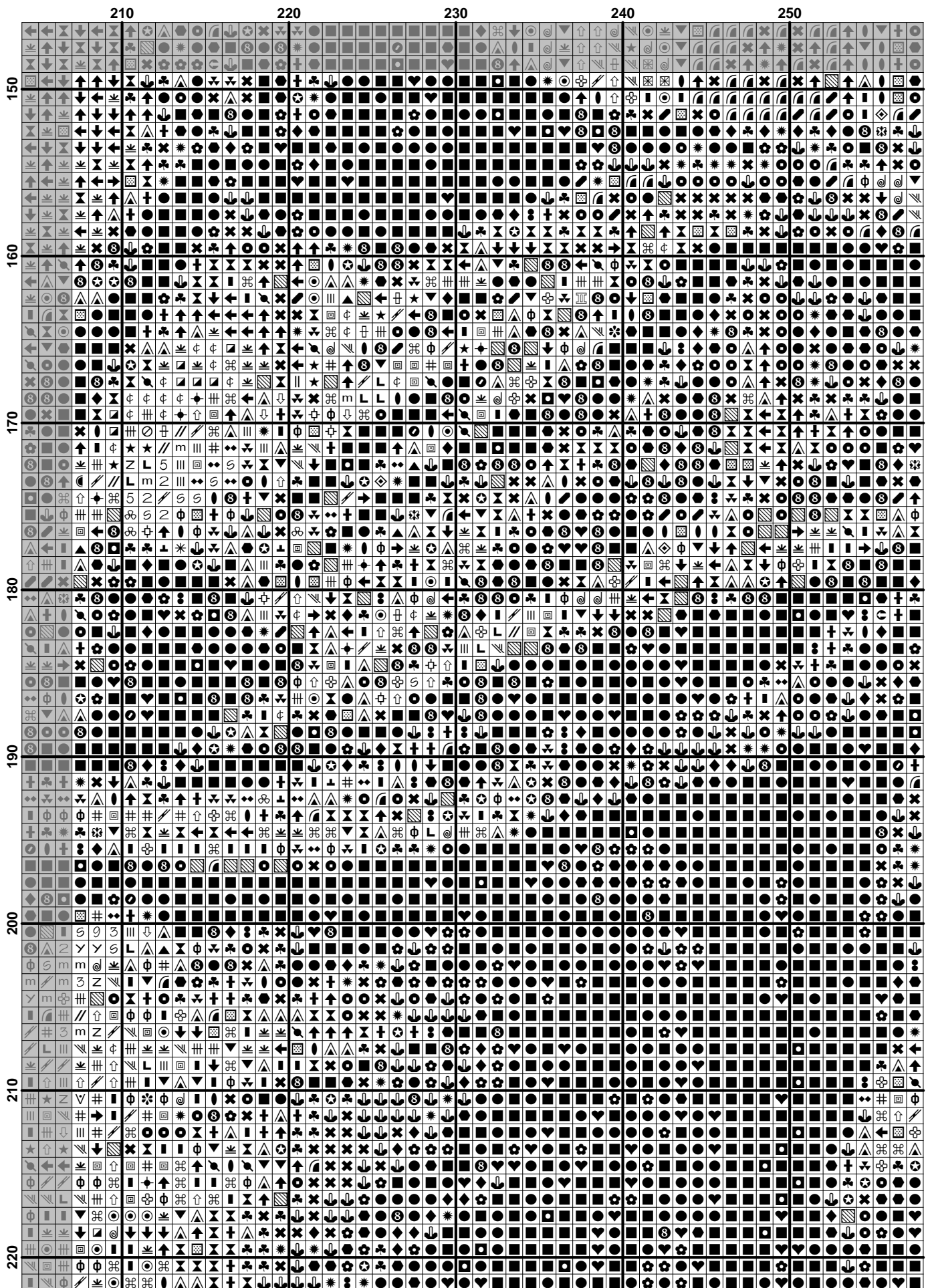


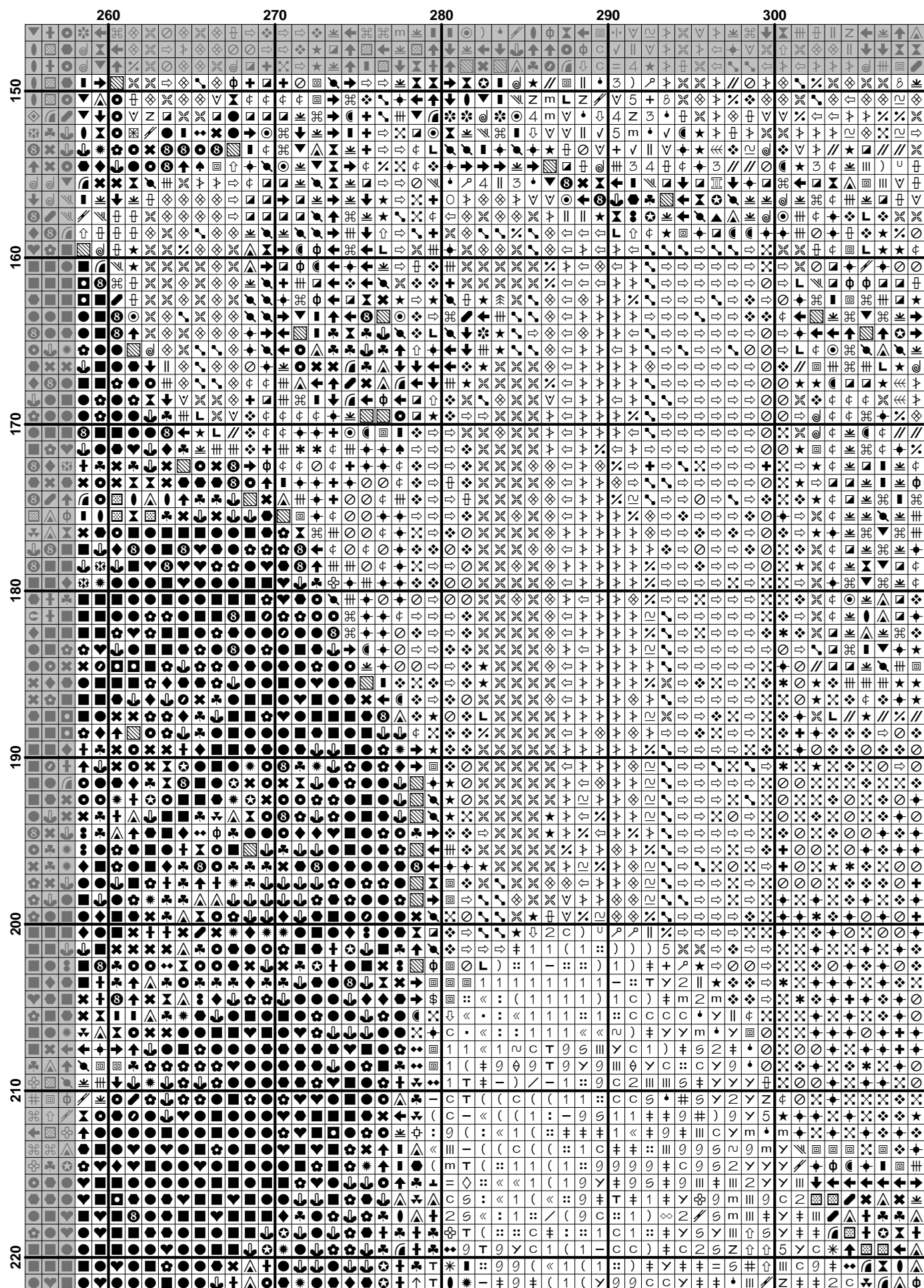


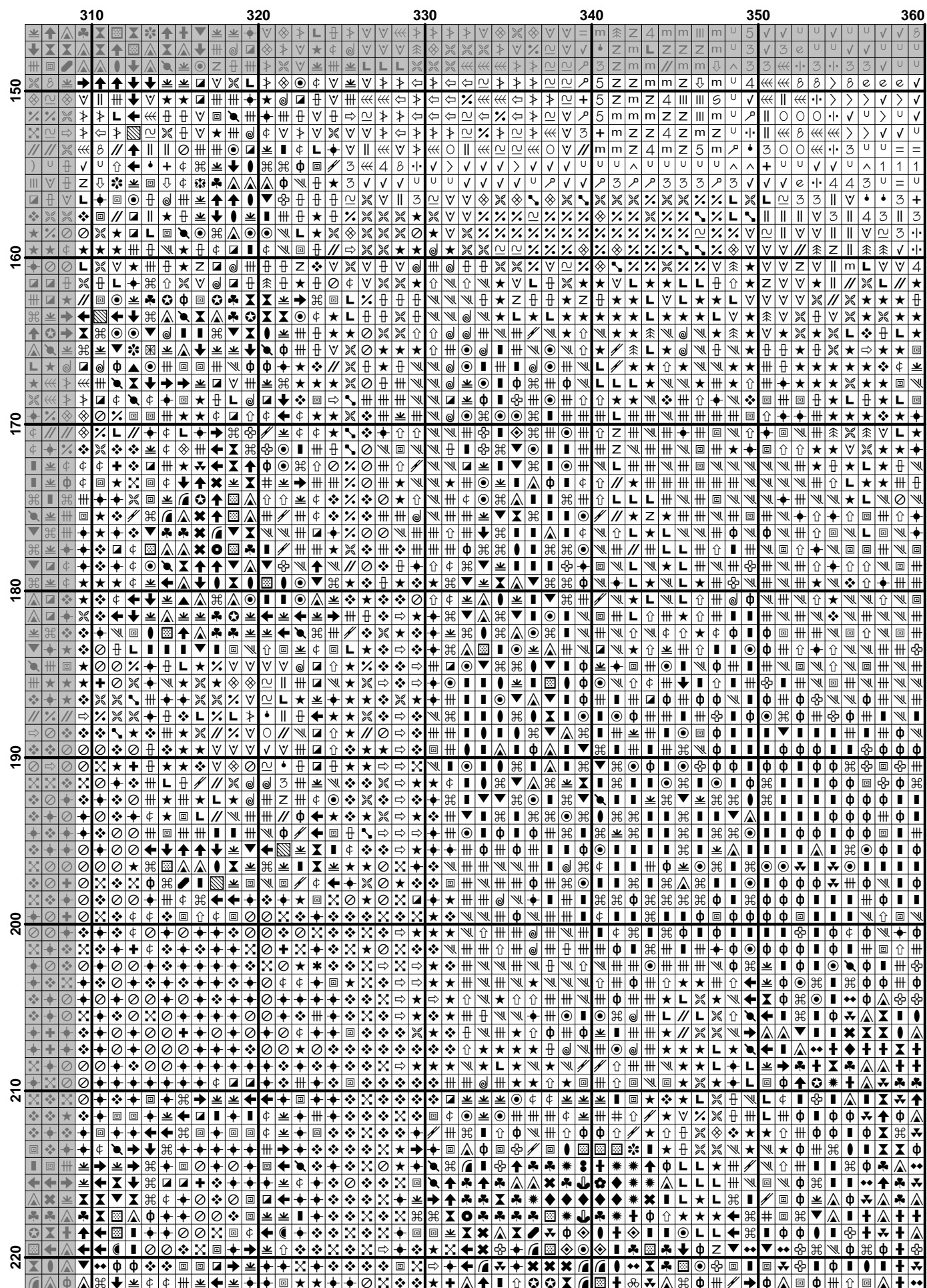
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160	...	...	...	...	...
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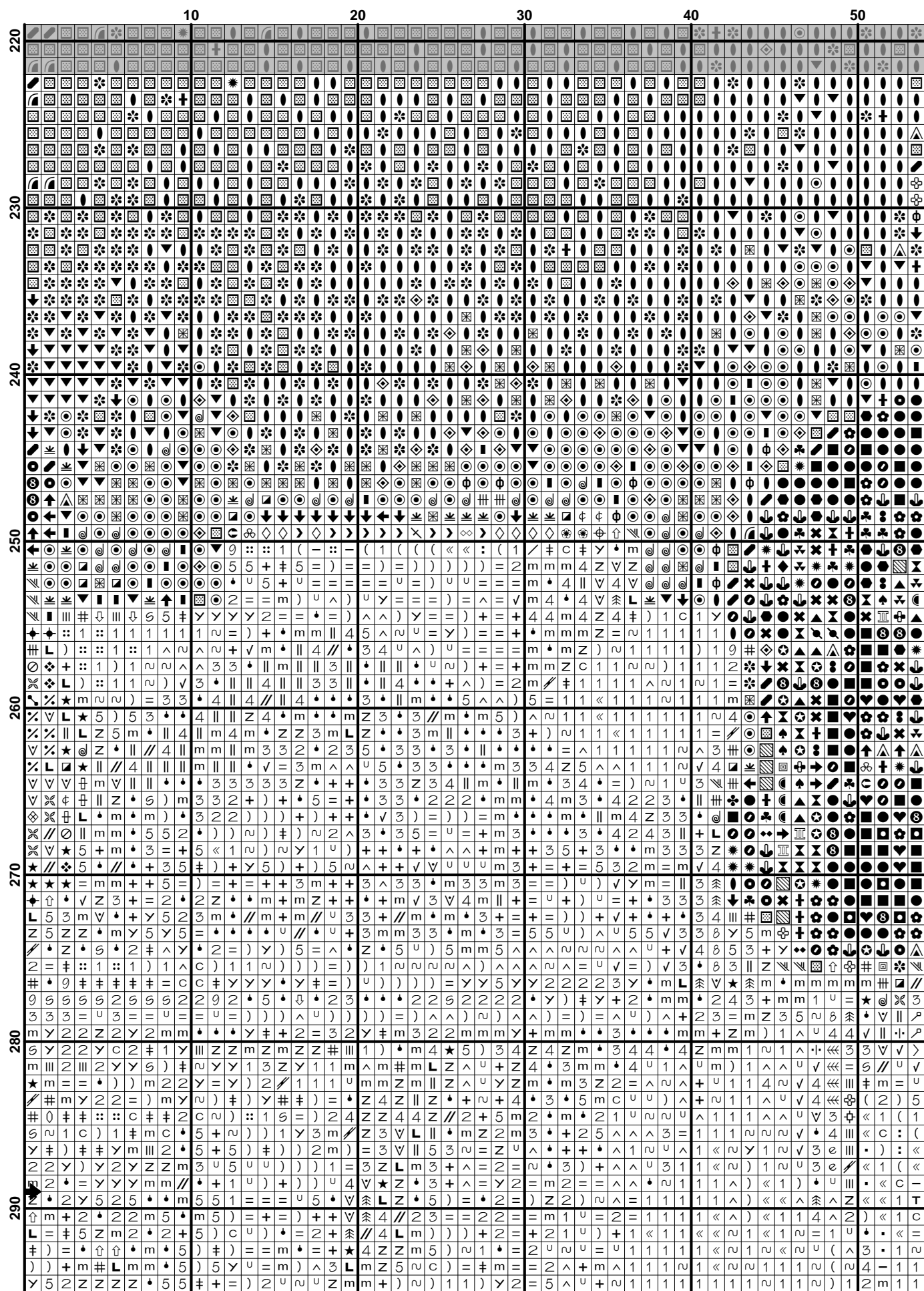


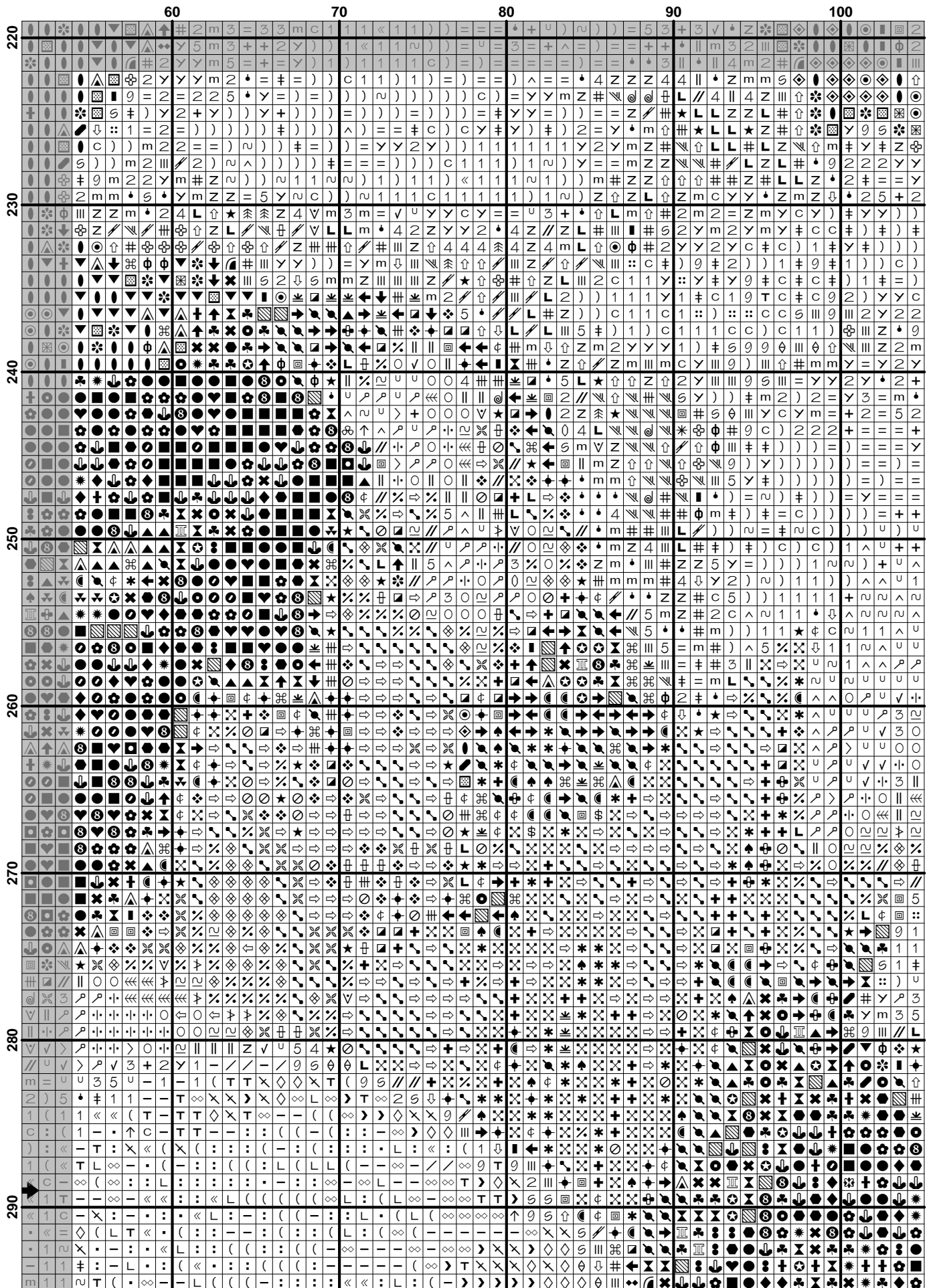






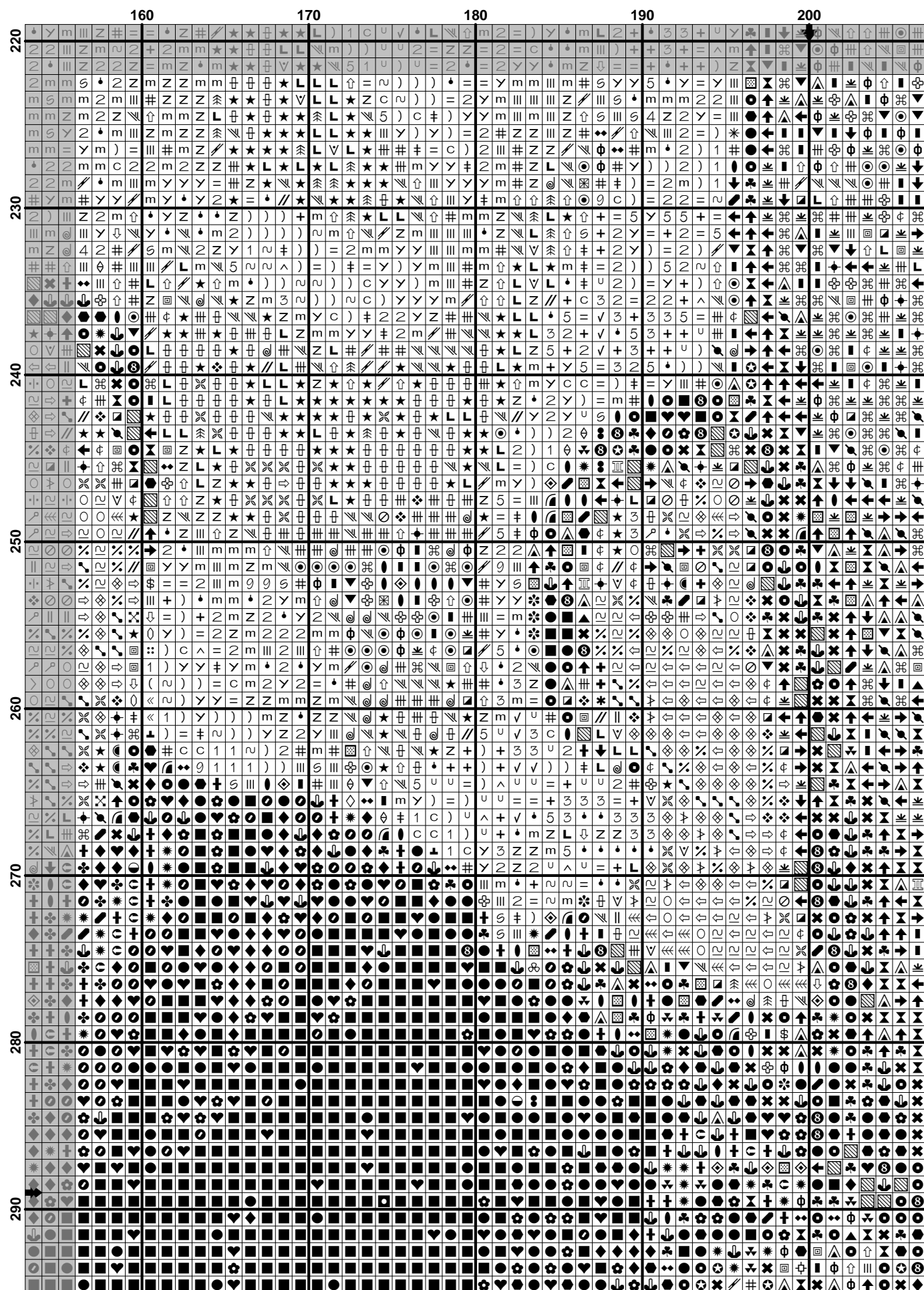
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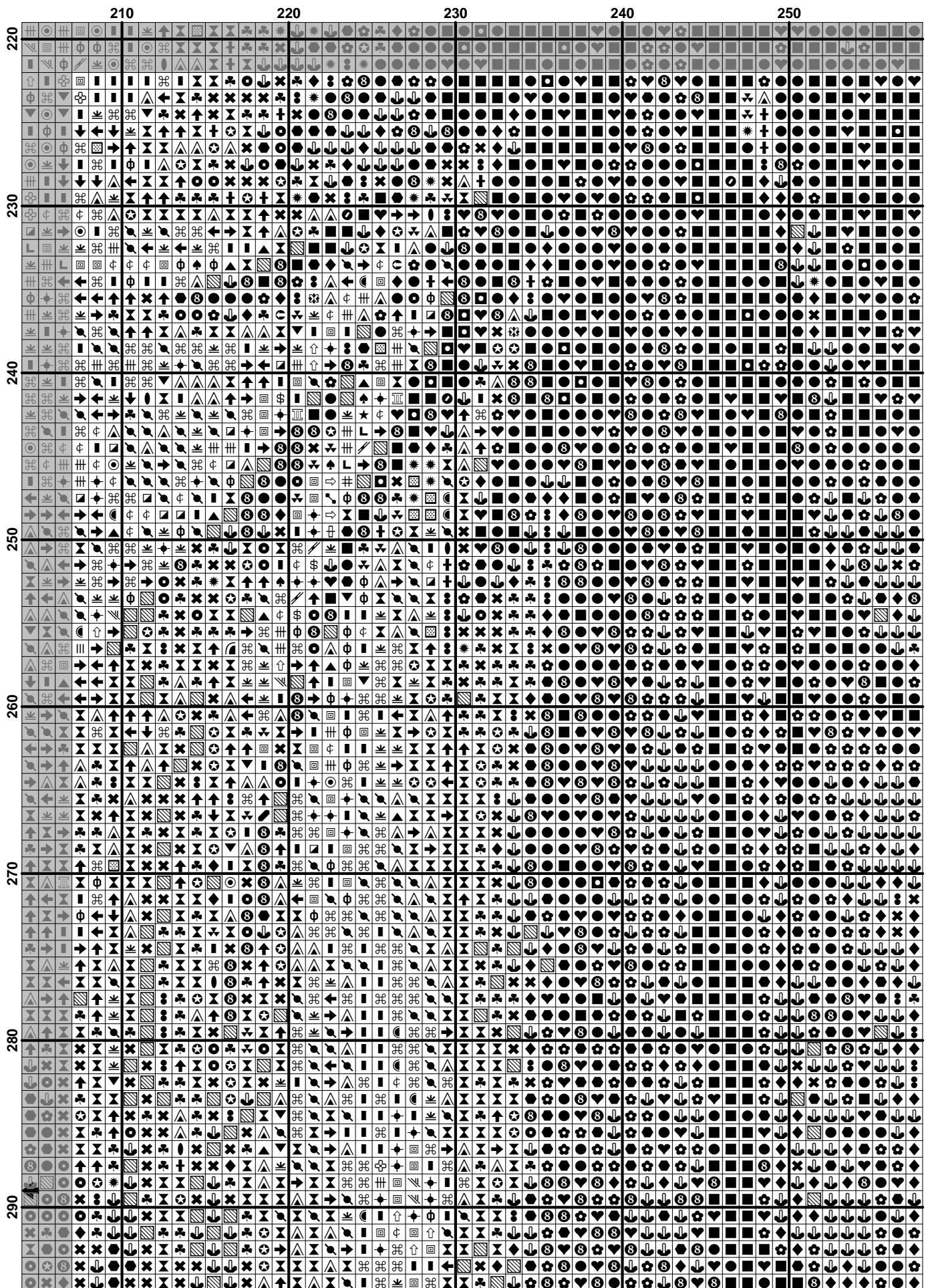


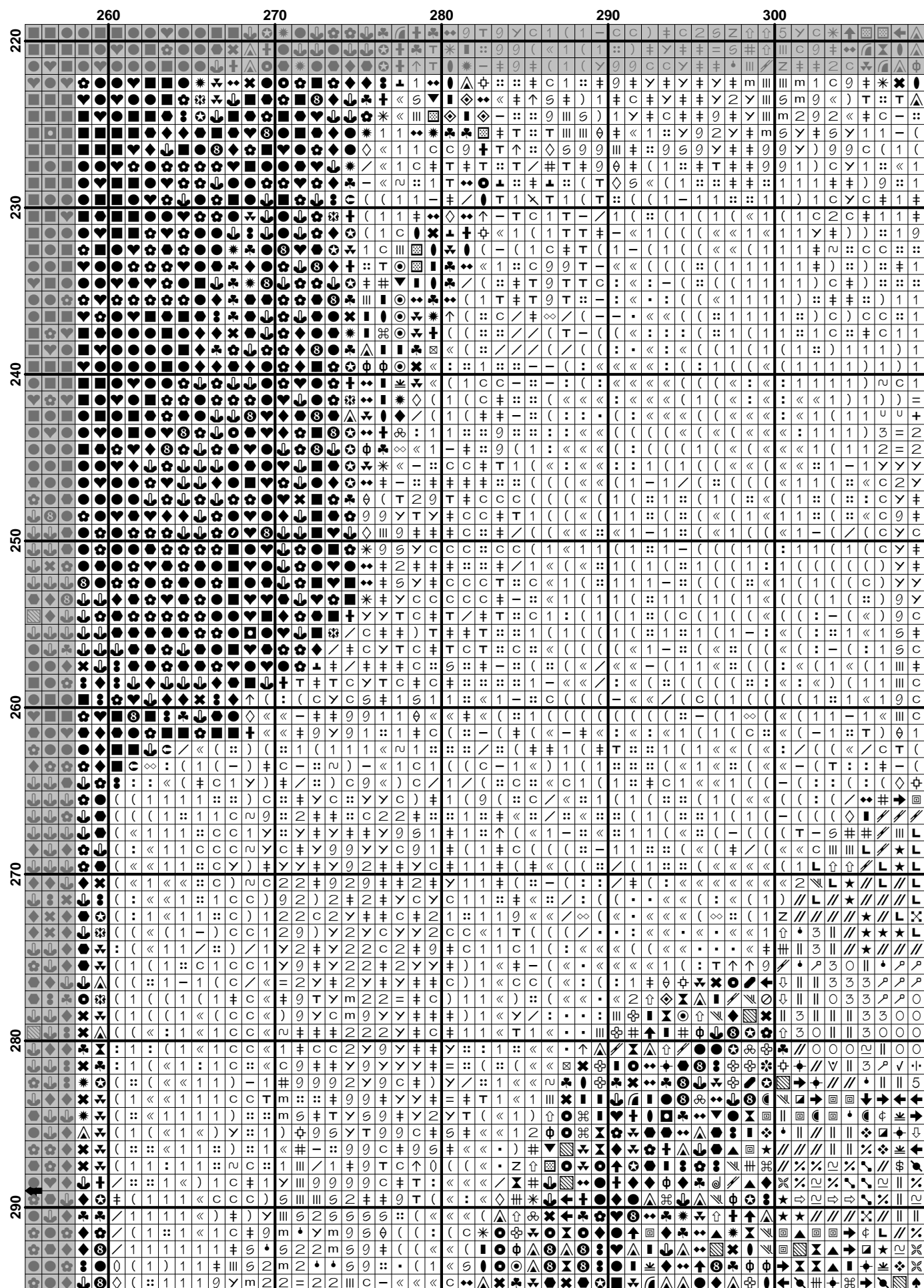


	110										120										130										140										150									
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230	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
240	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
250	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
260	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250
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290	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400

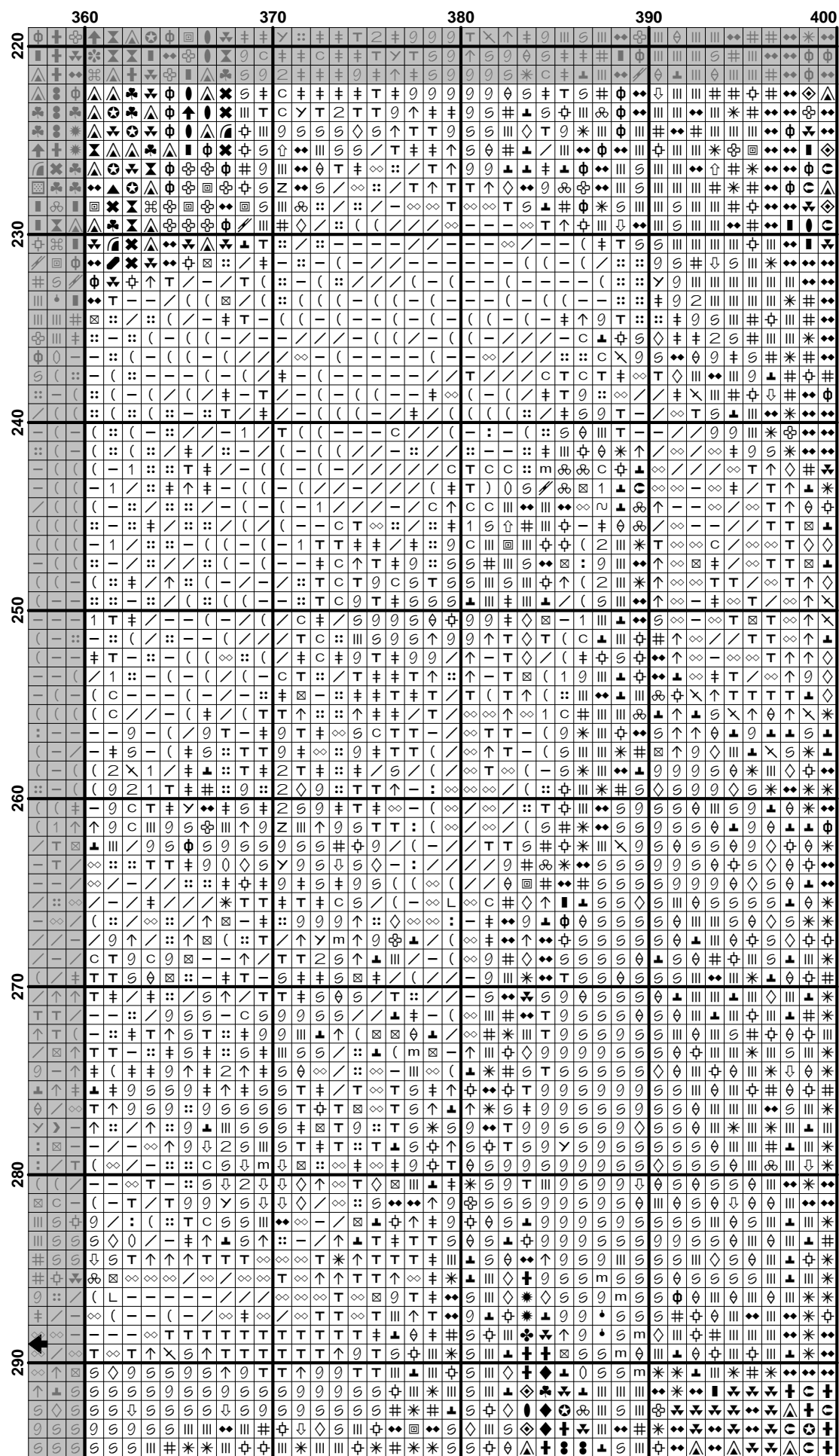








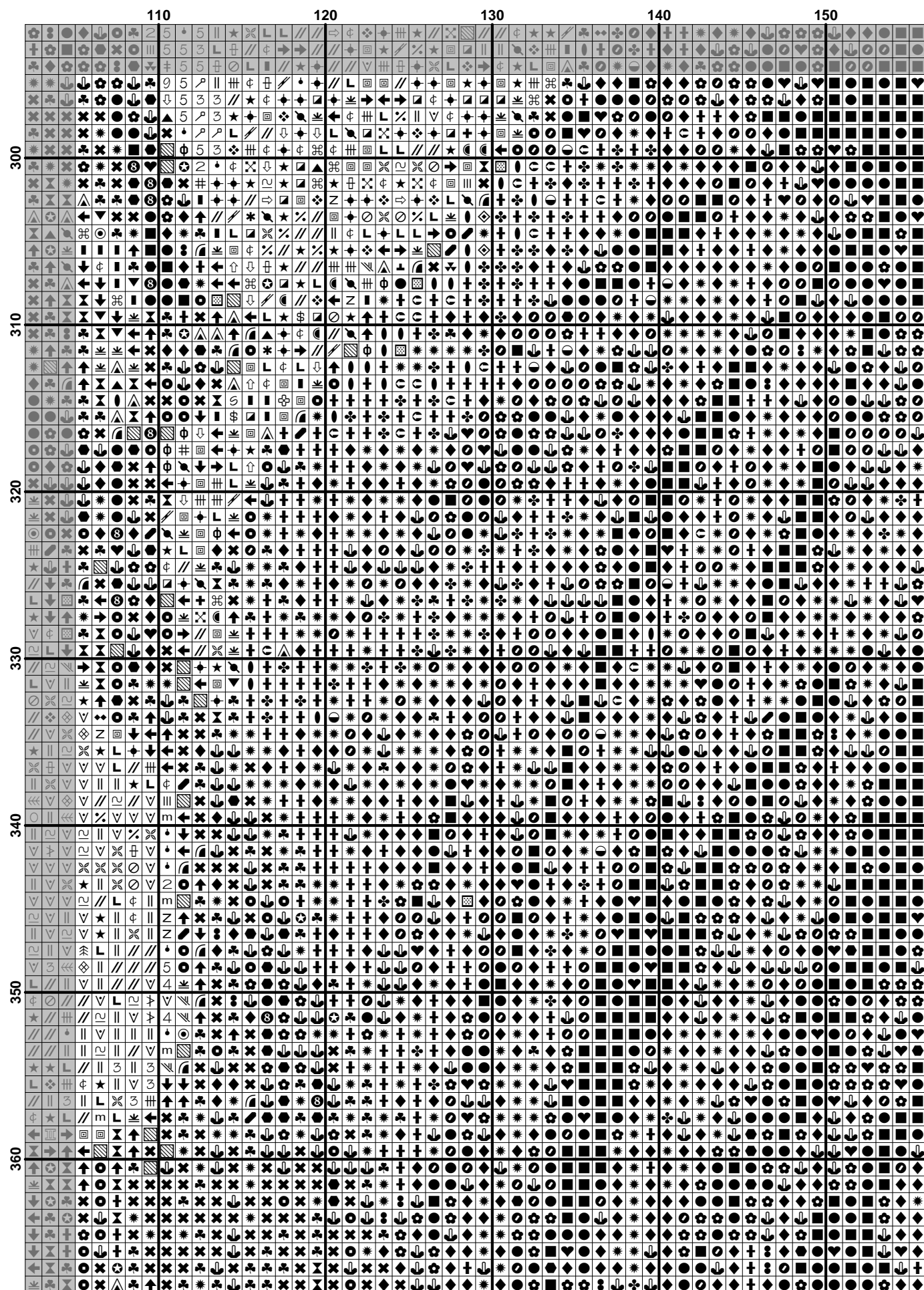
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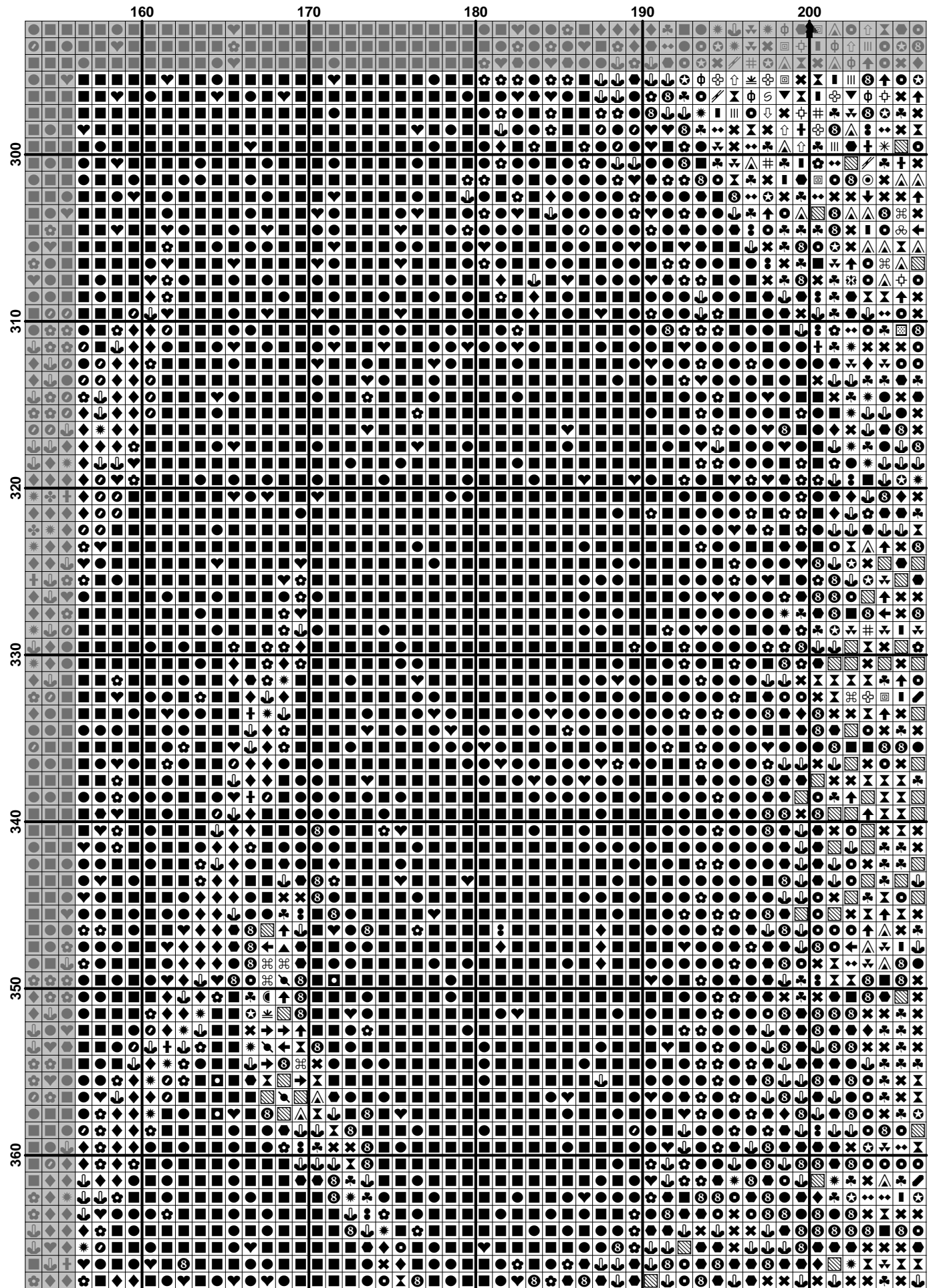


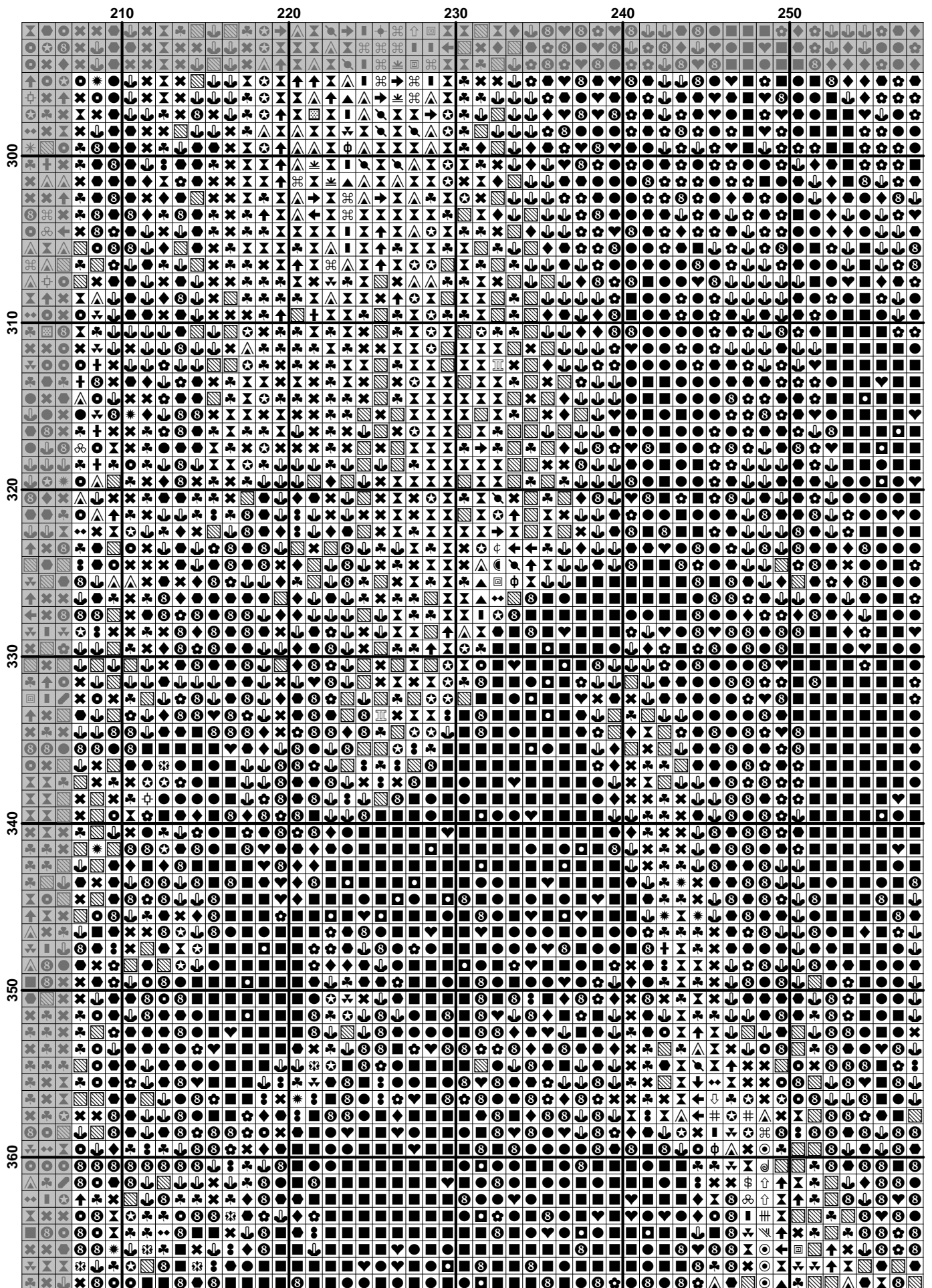
$$(41) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

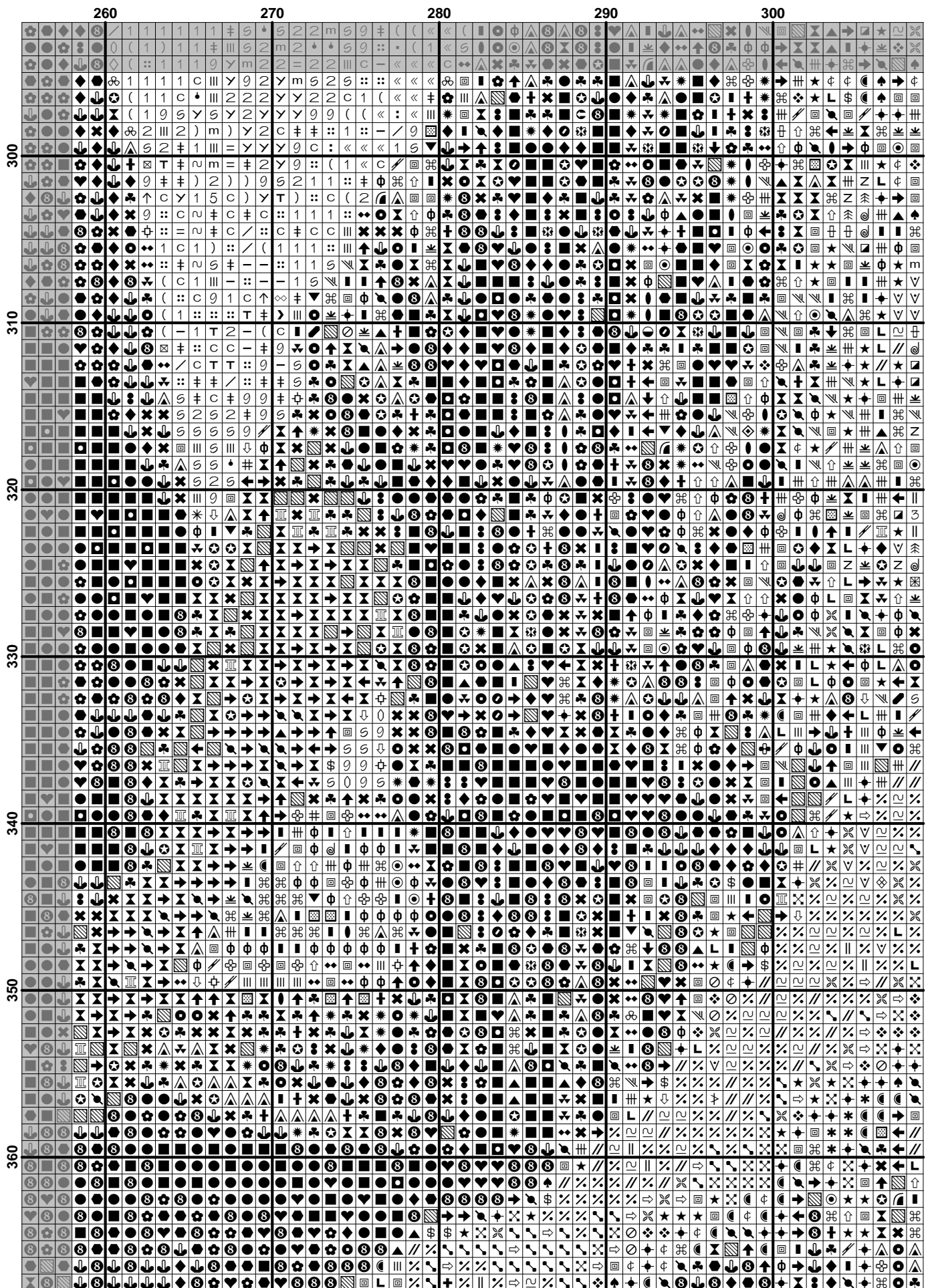
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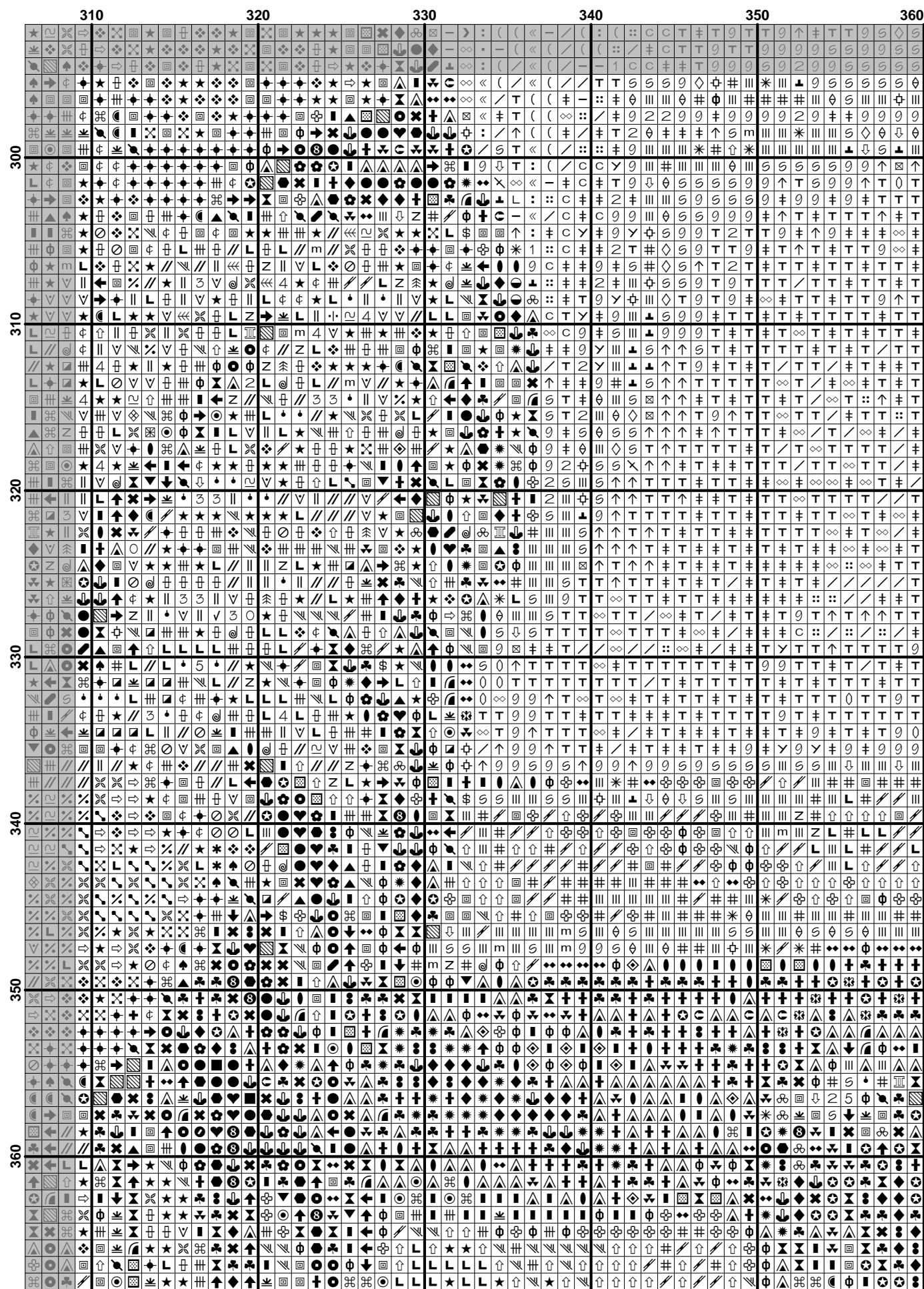


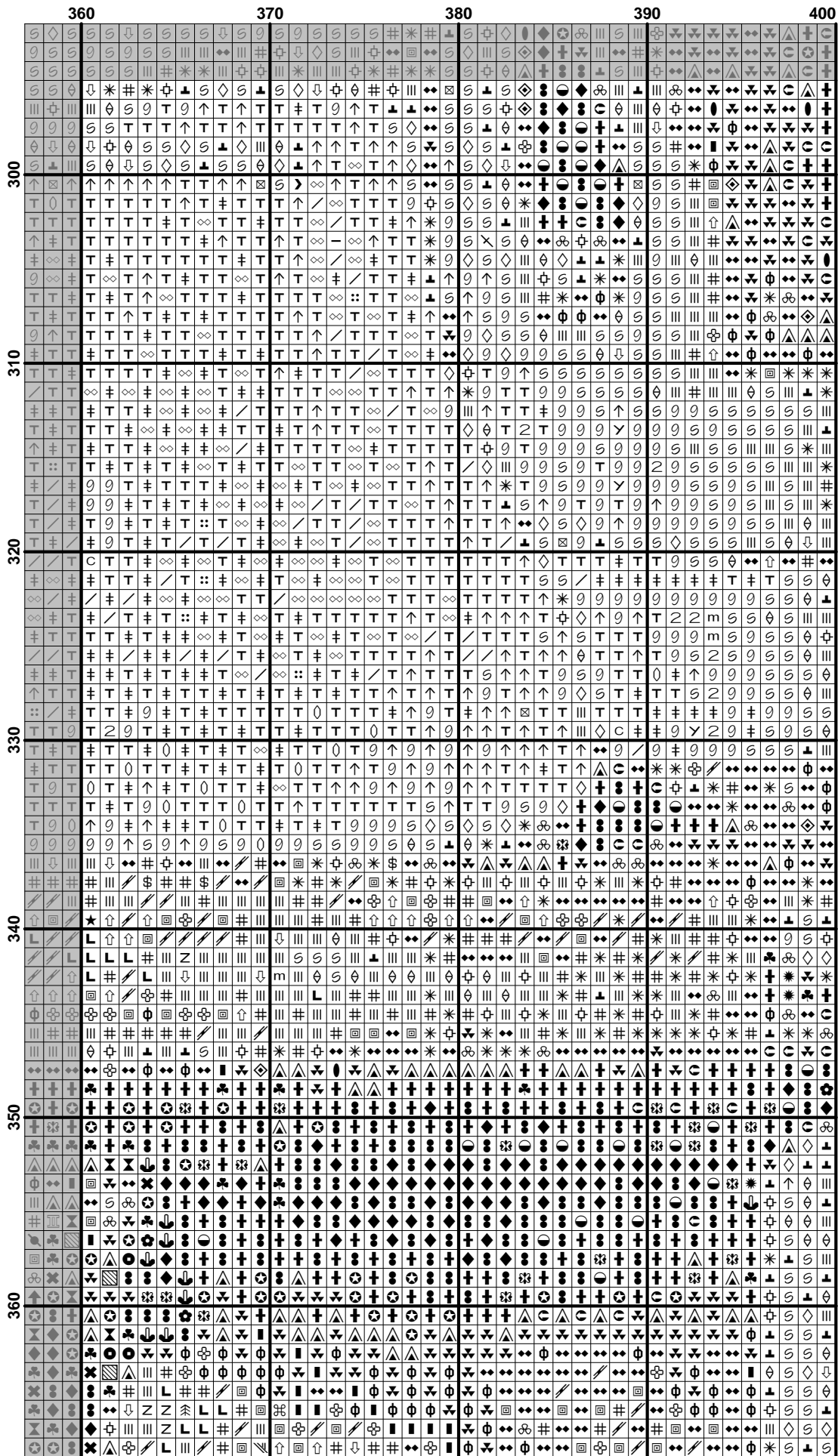








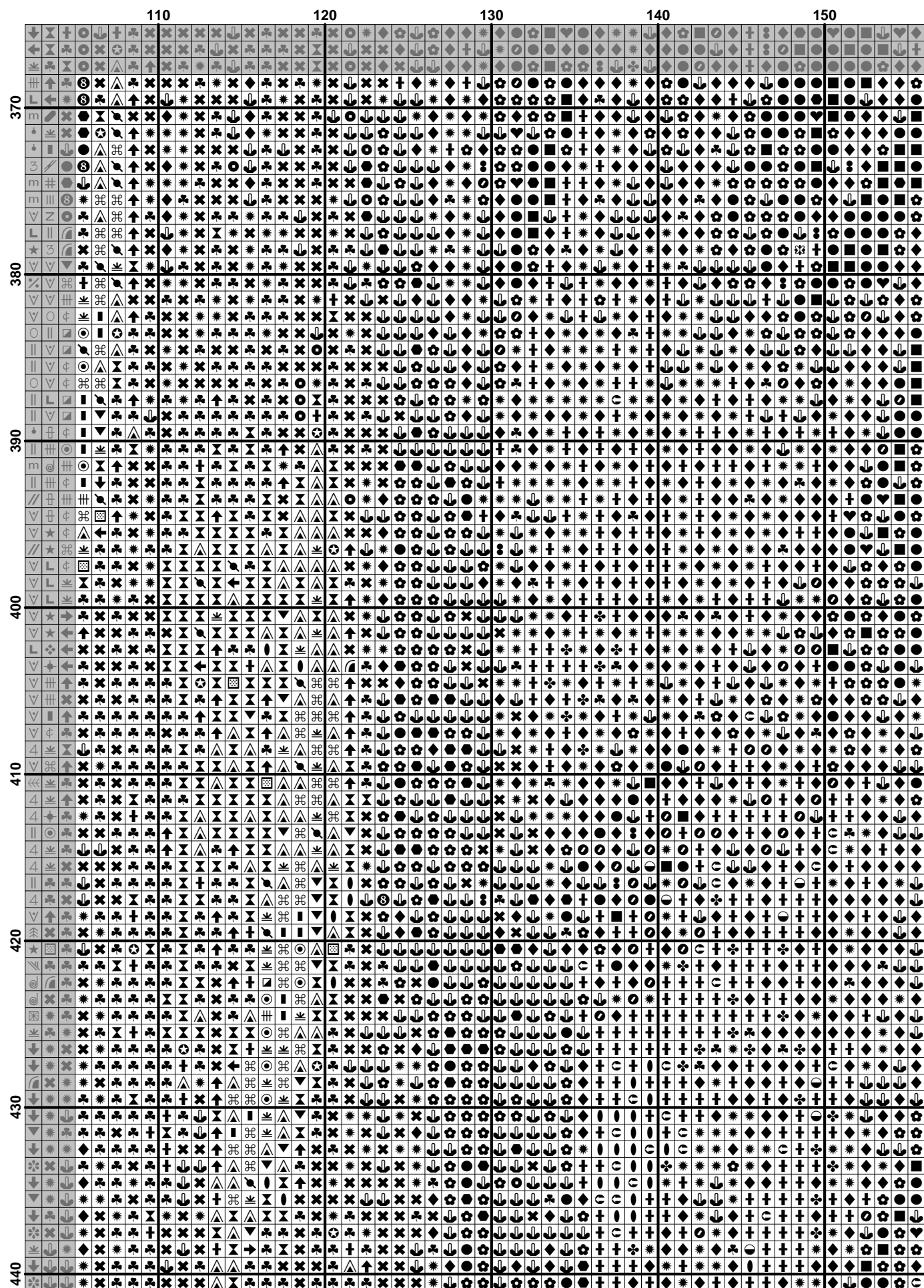


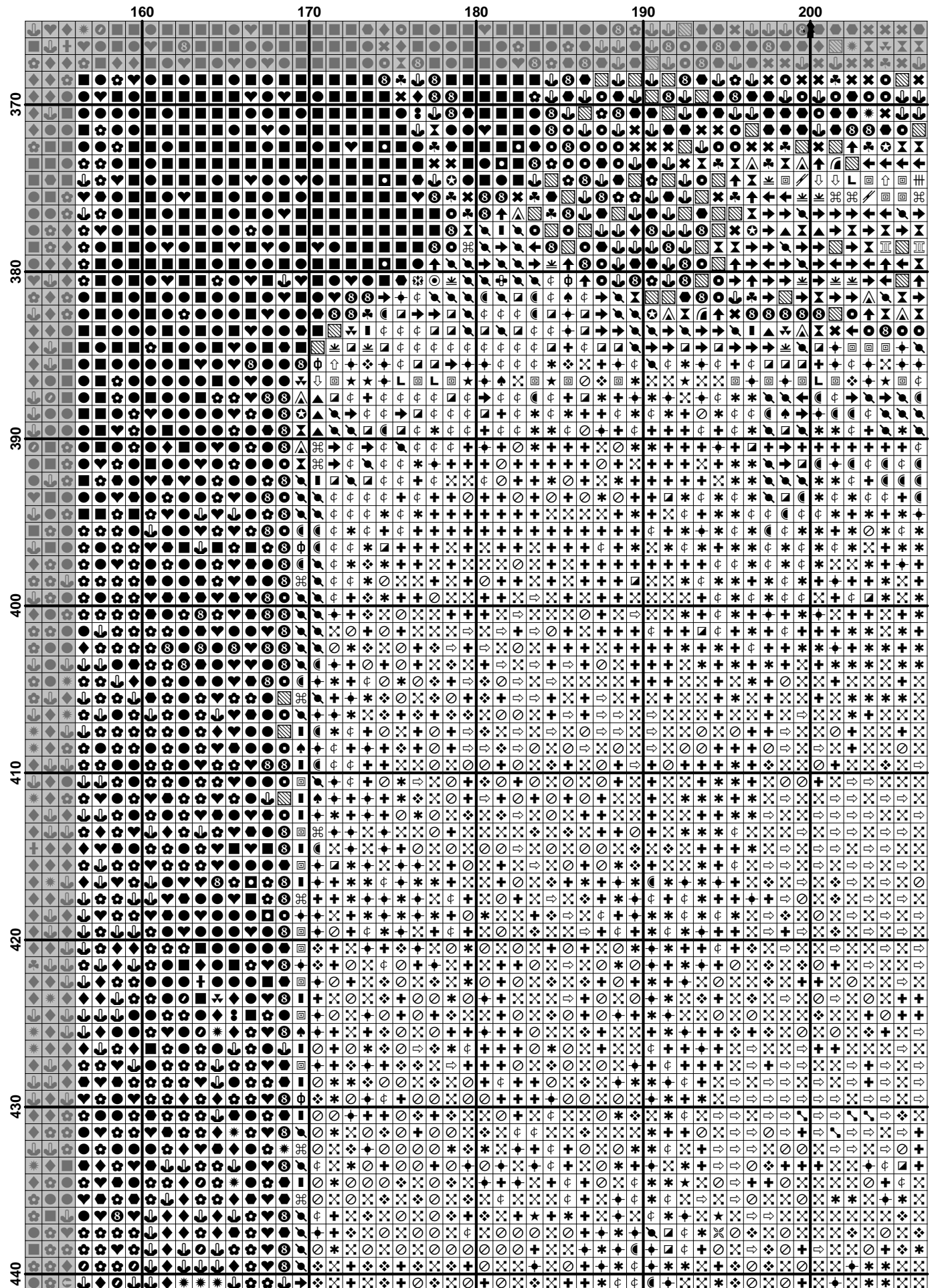


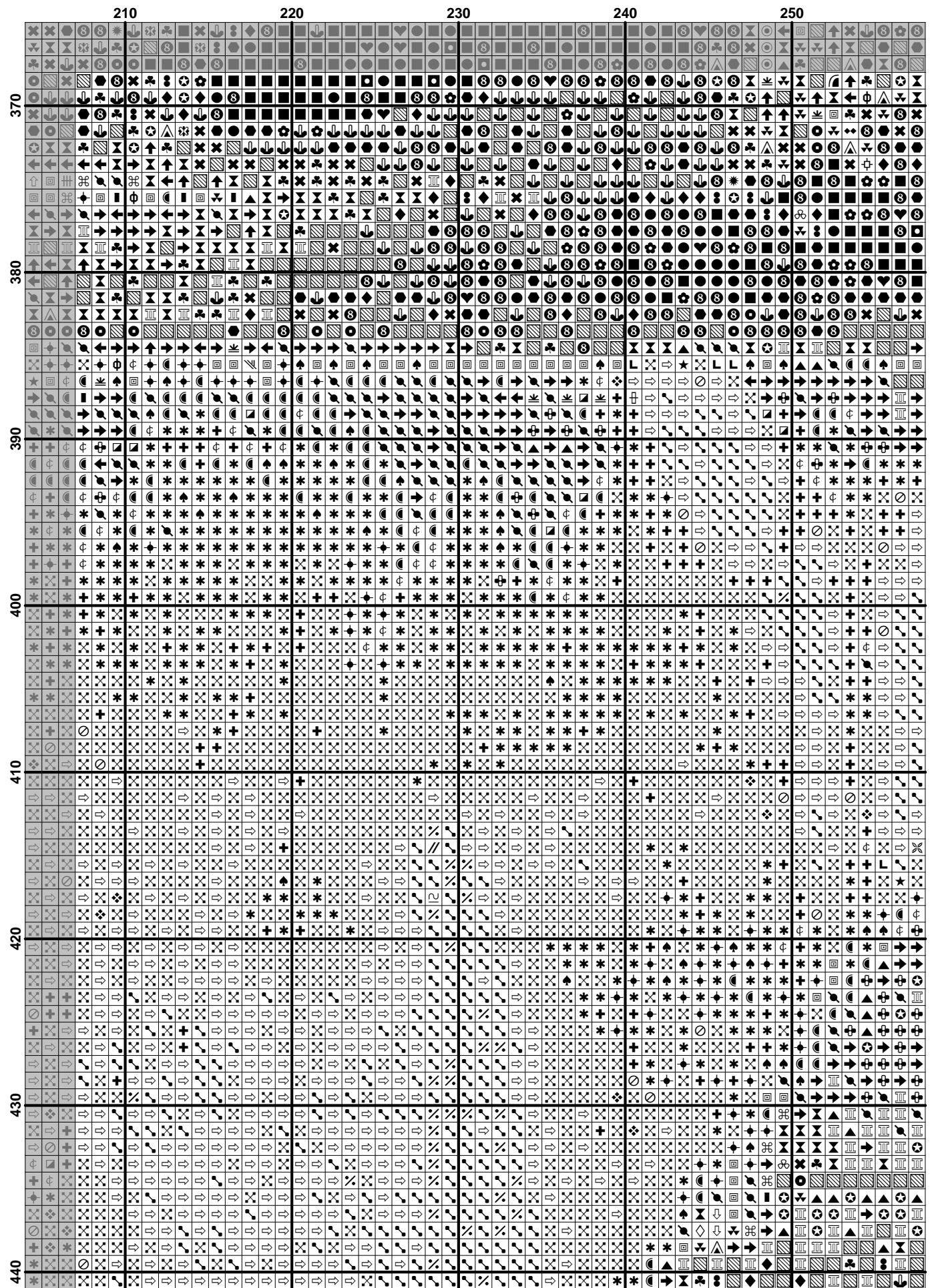
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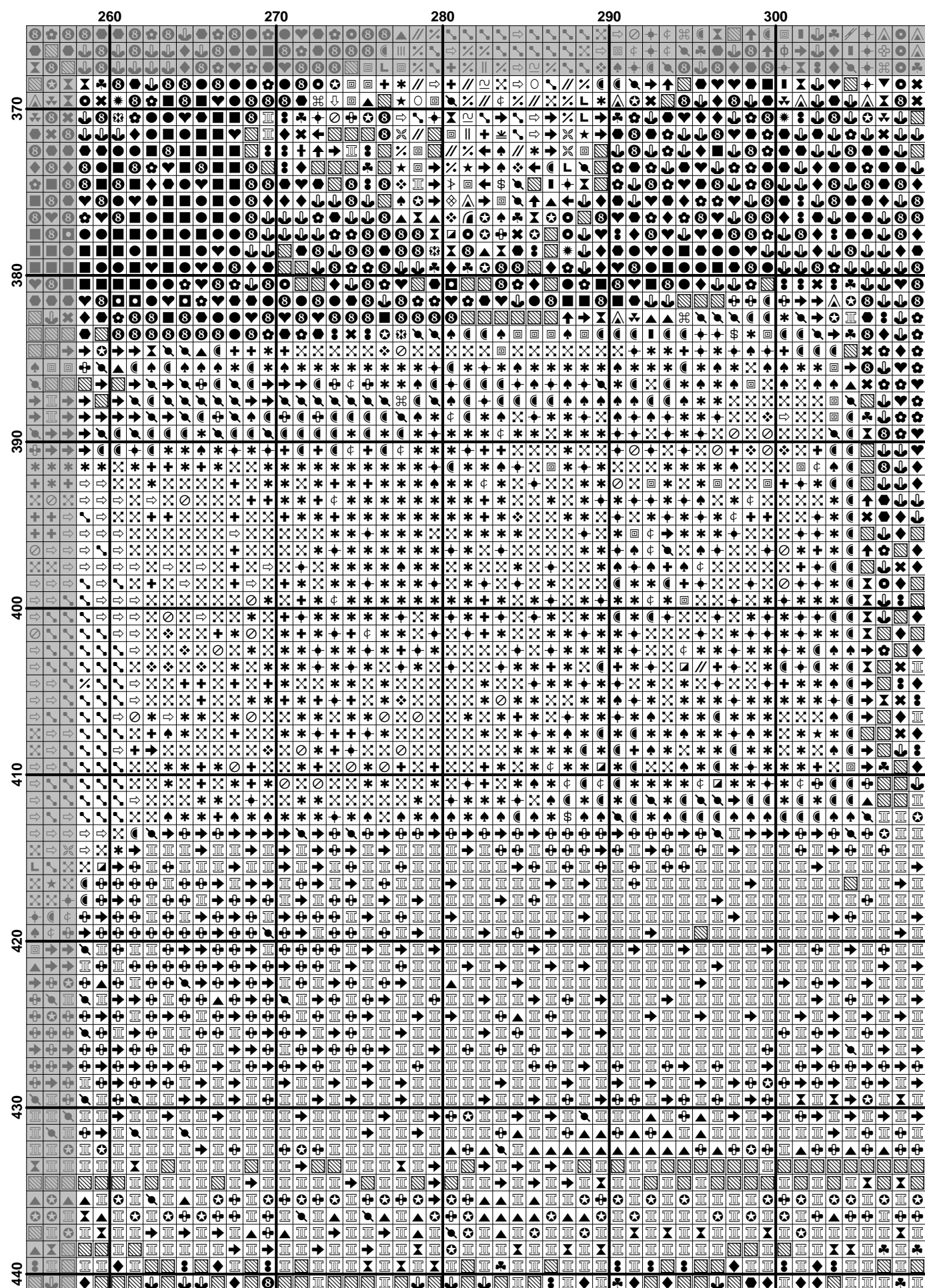


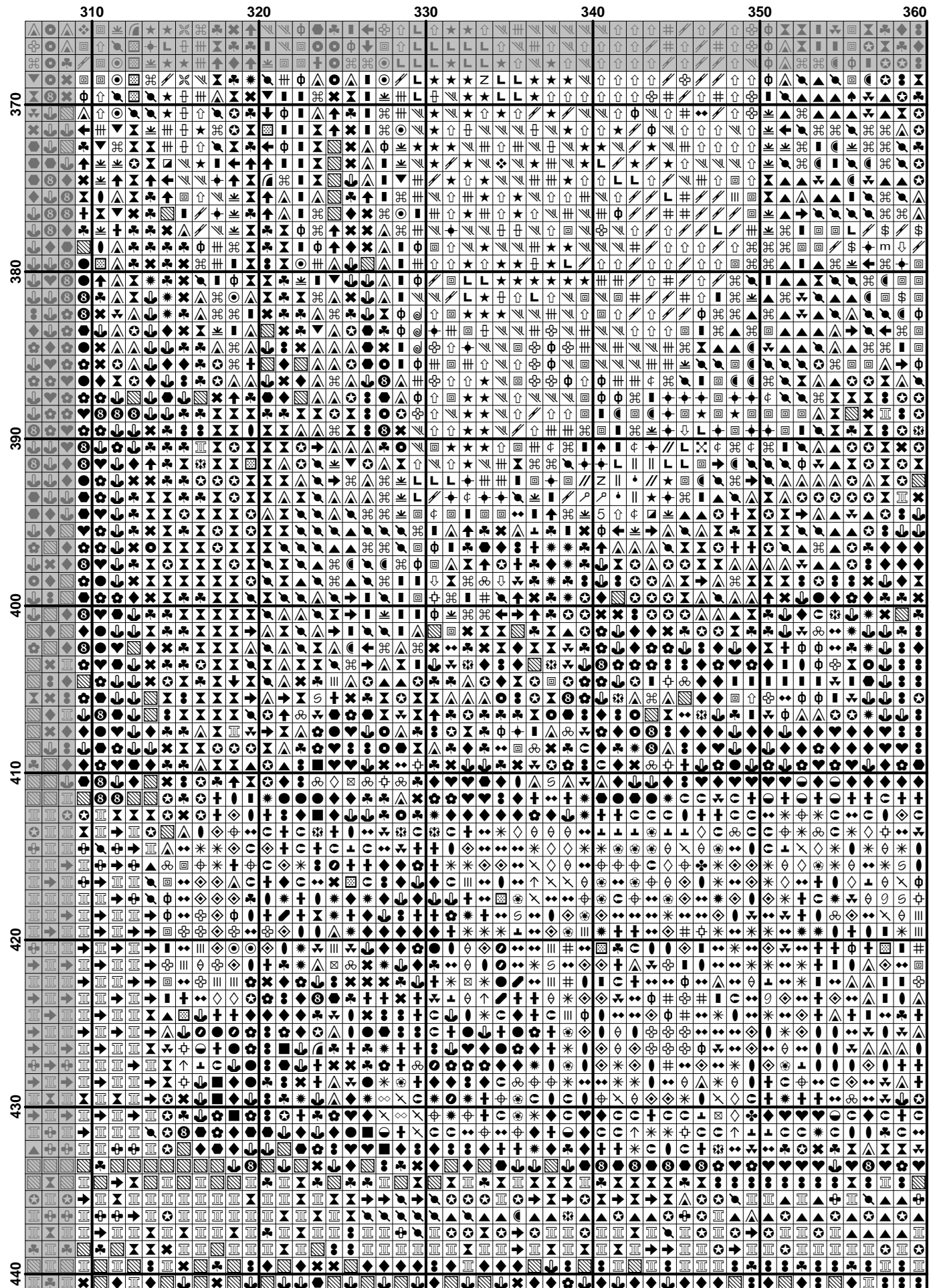
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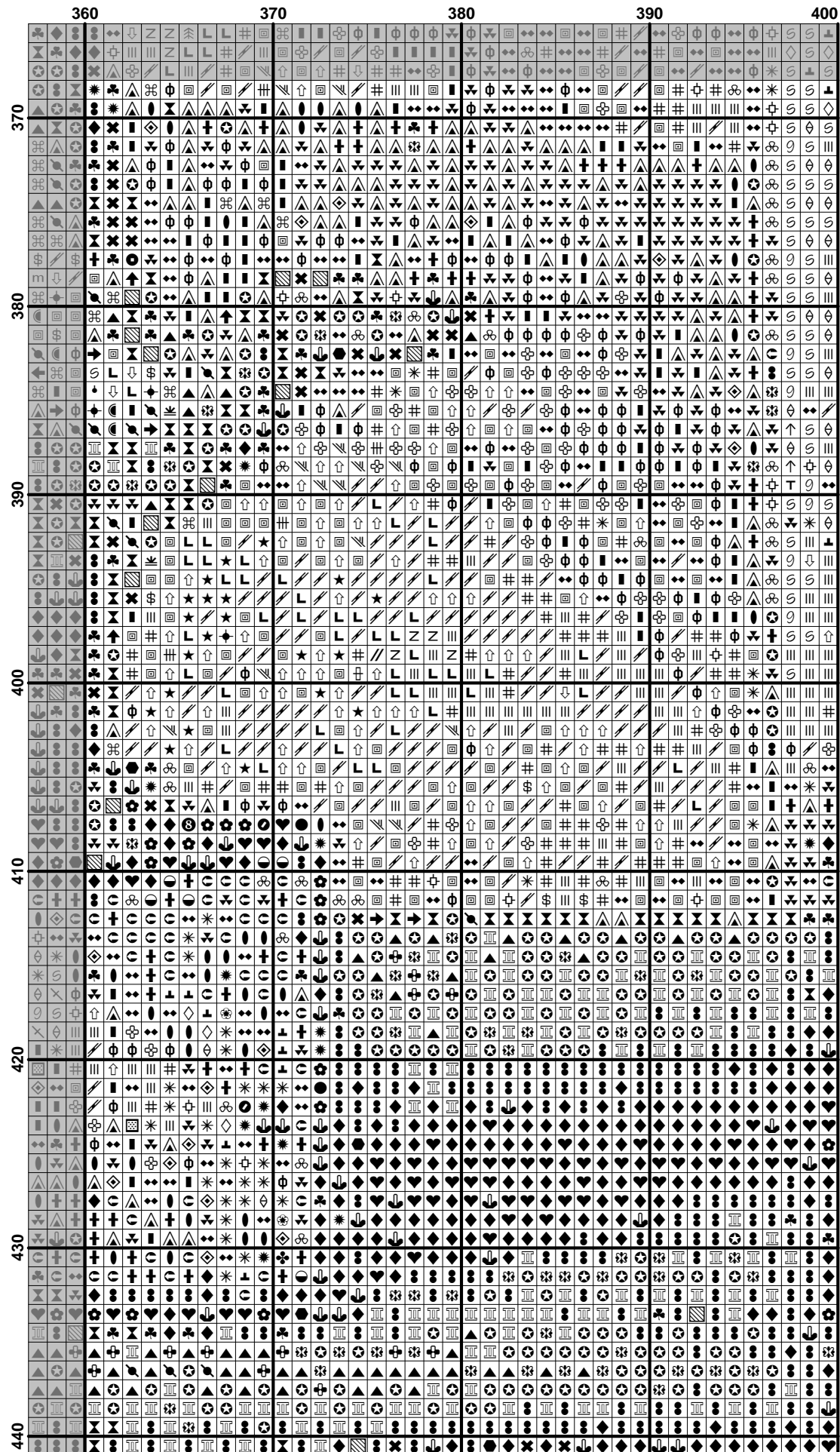








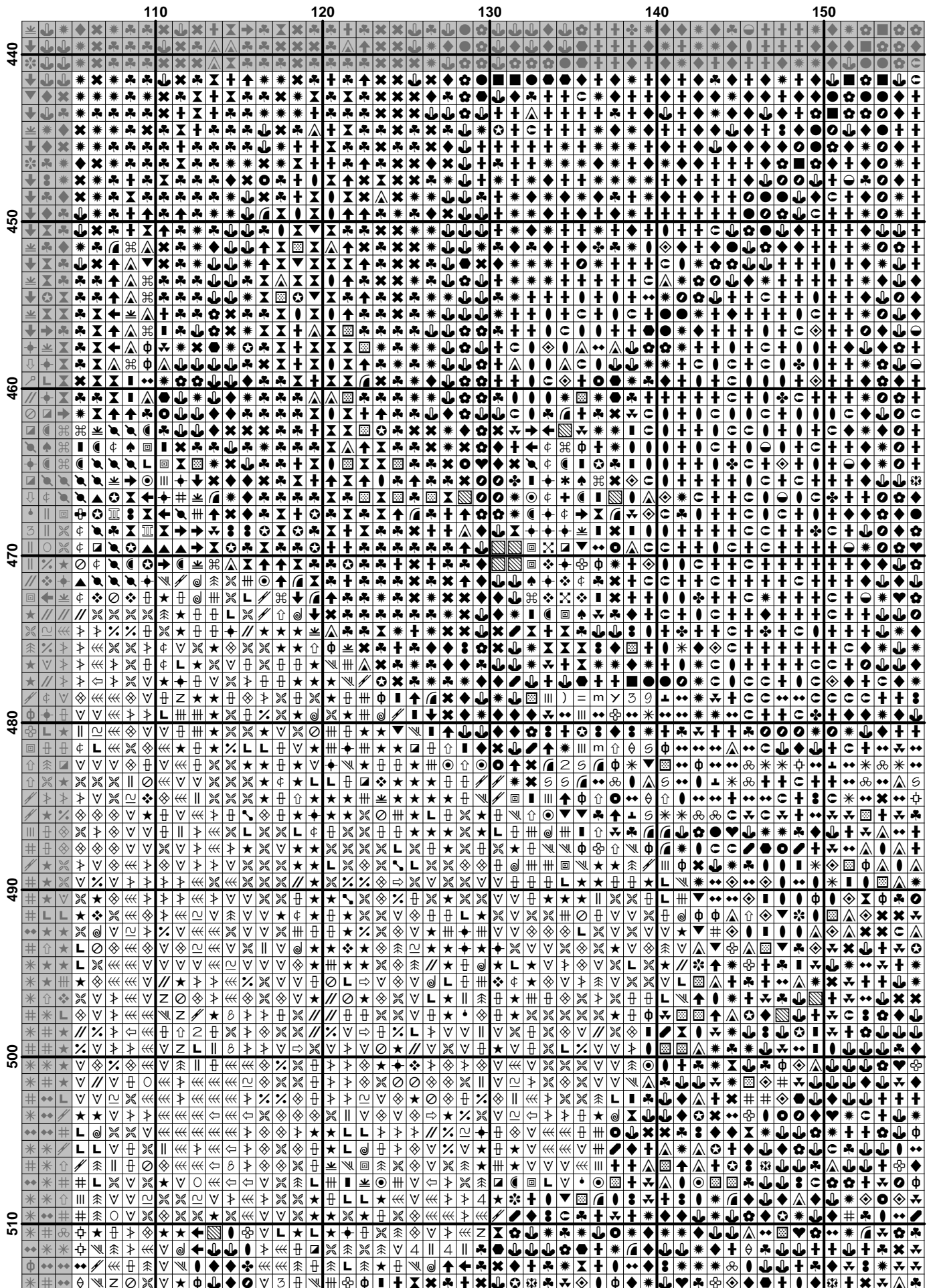


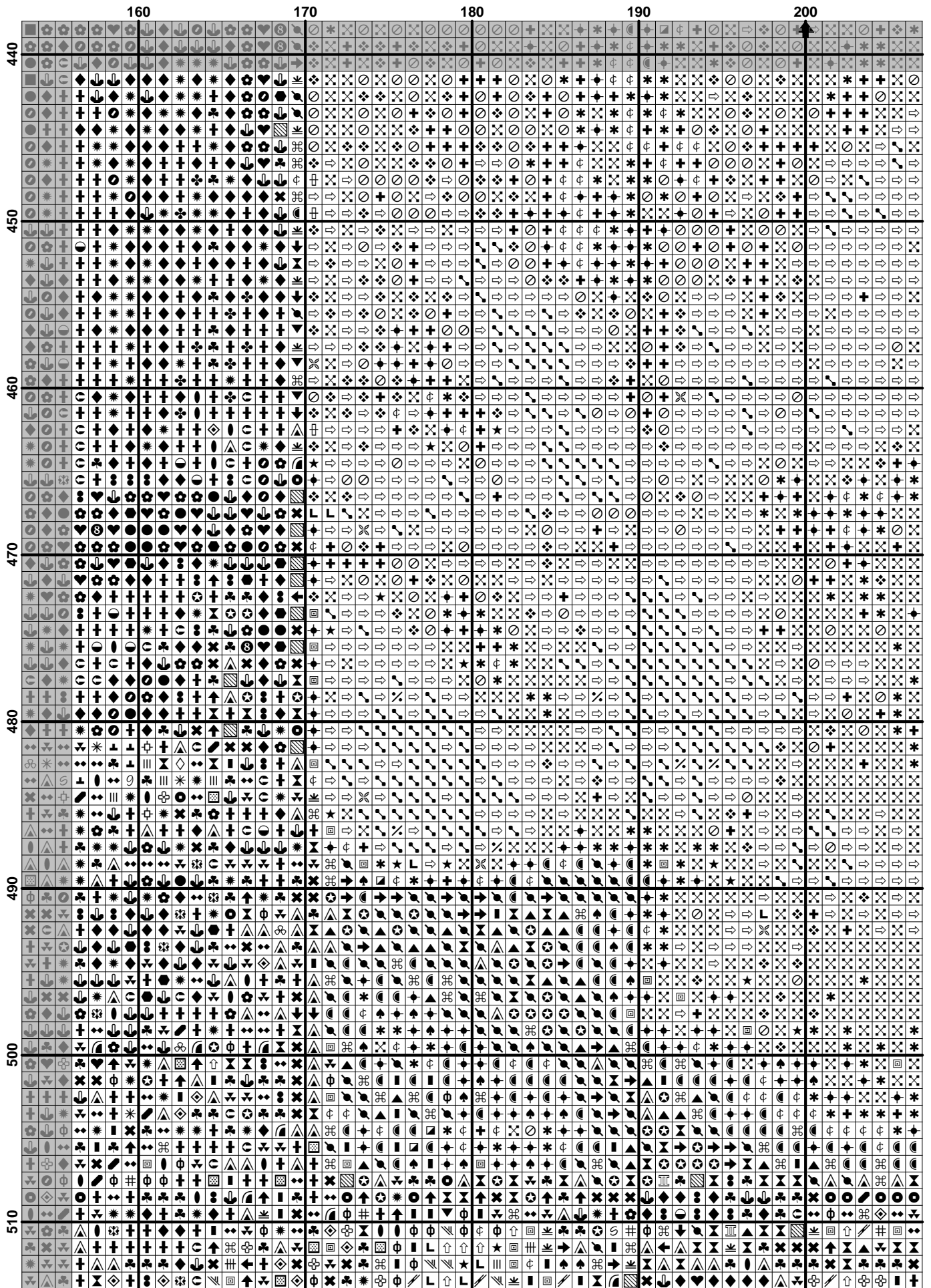


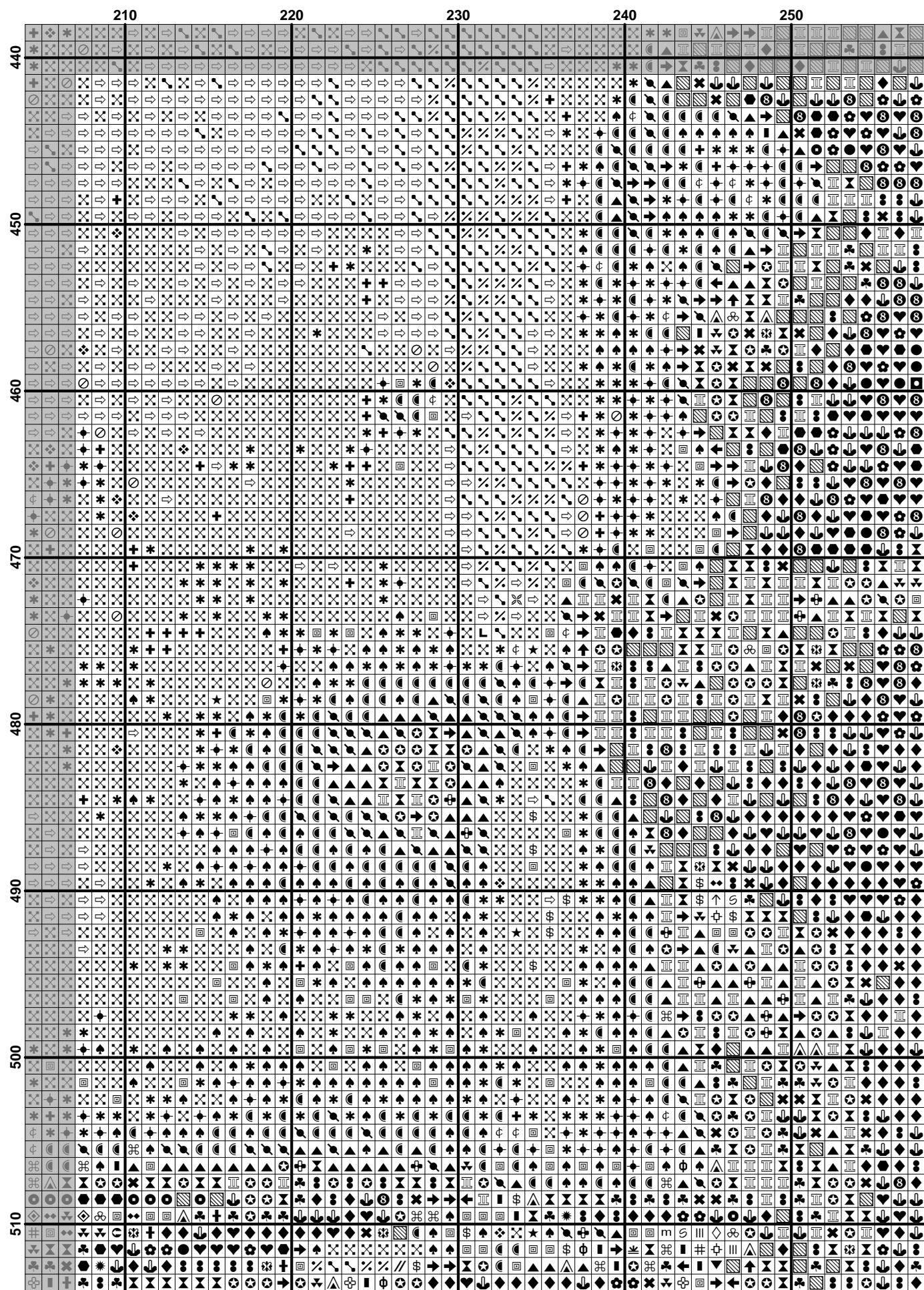


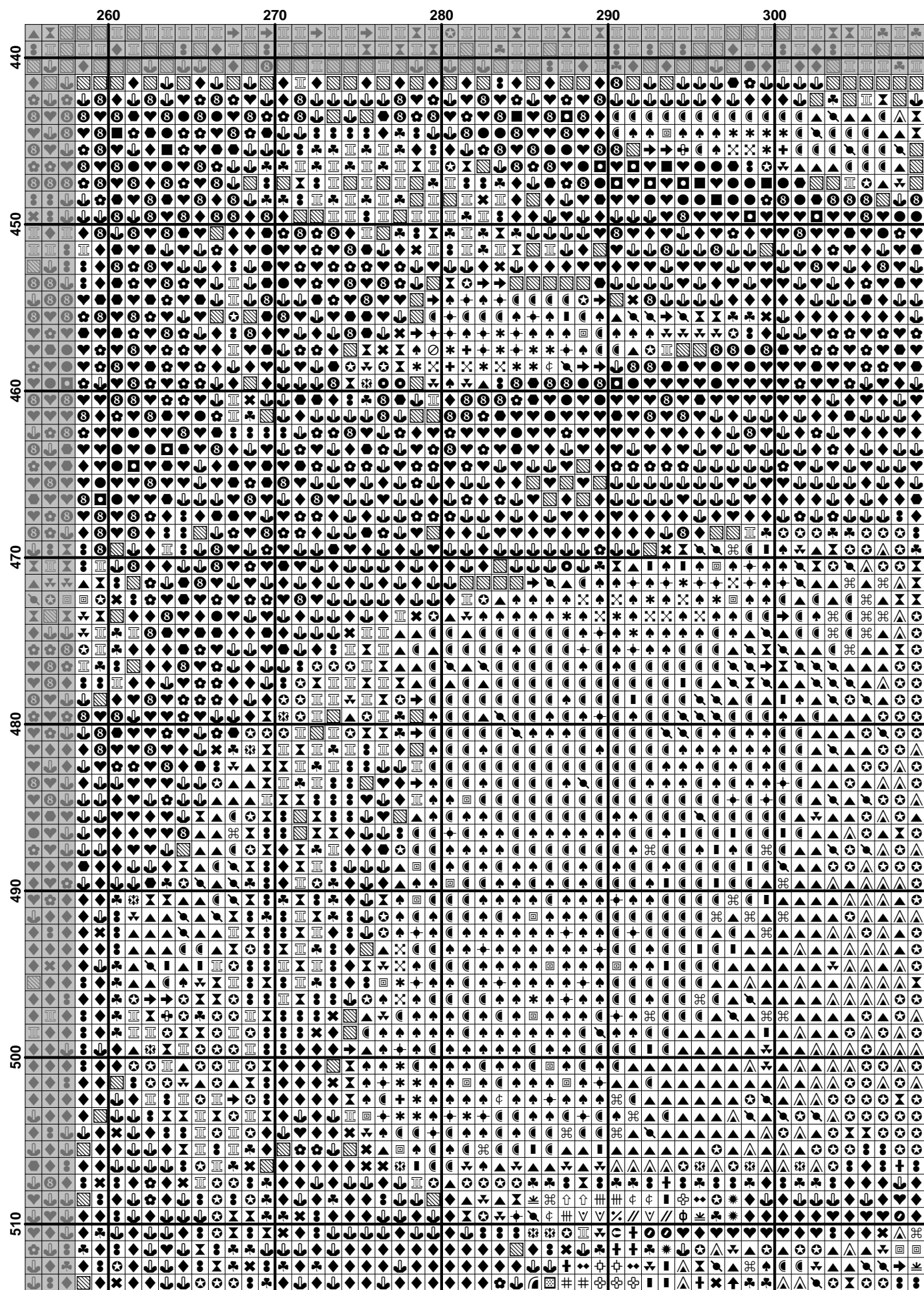
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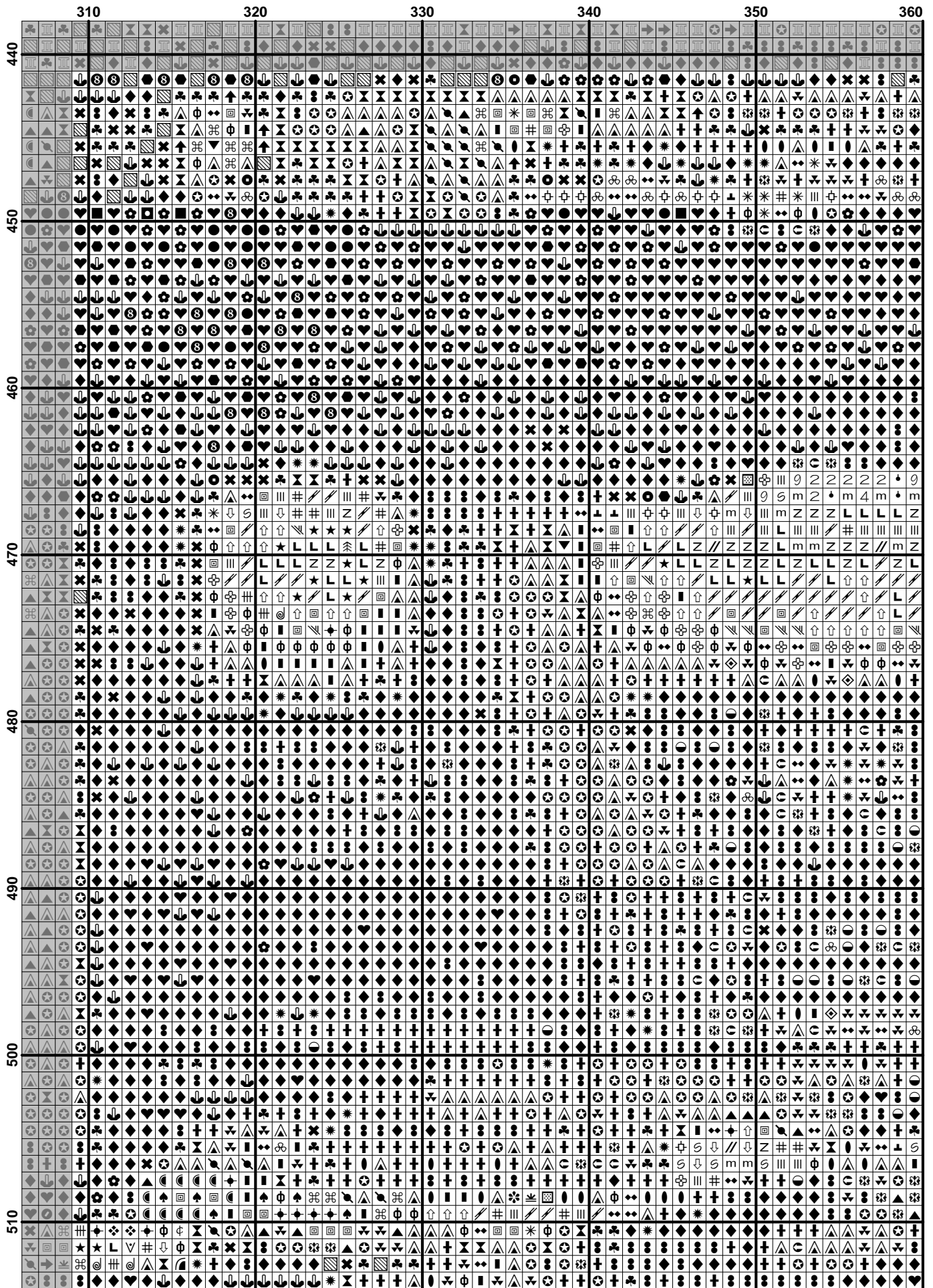
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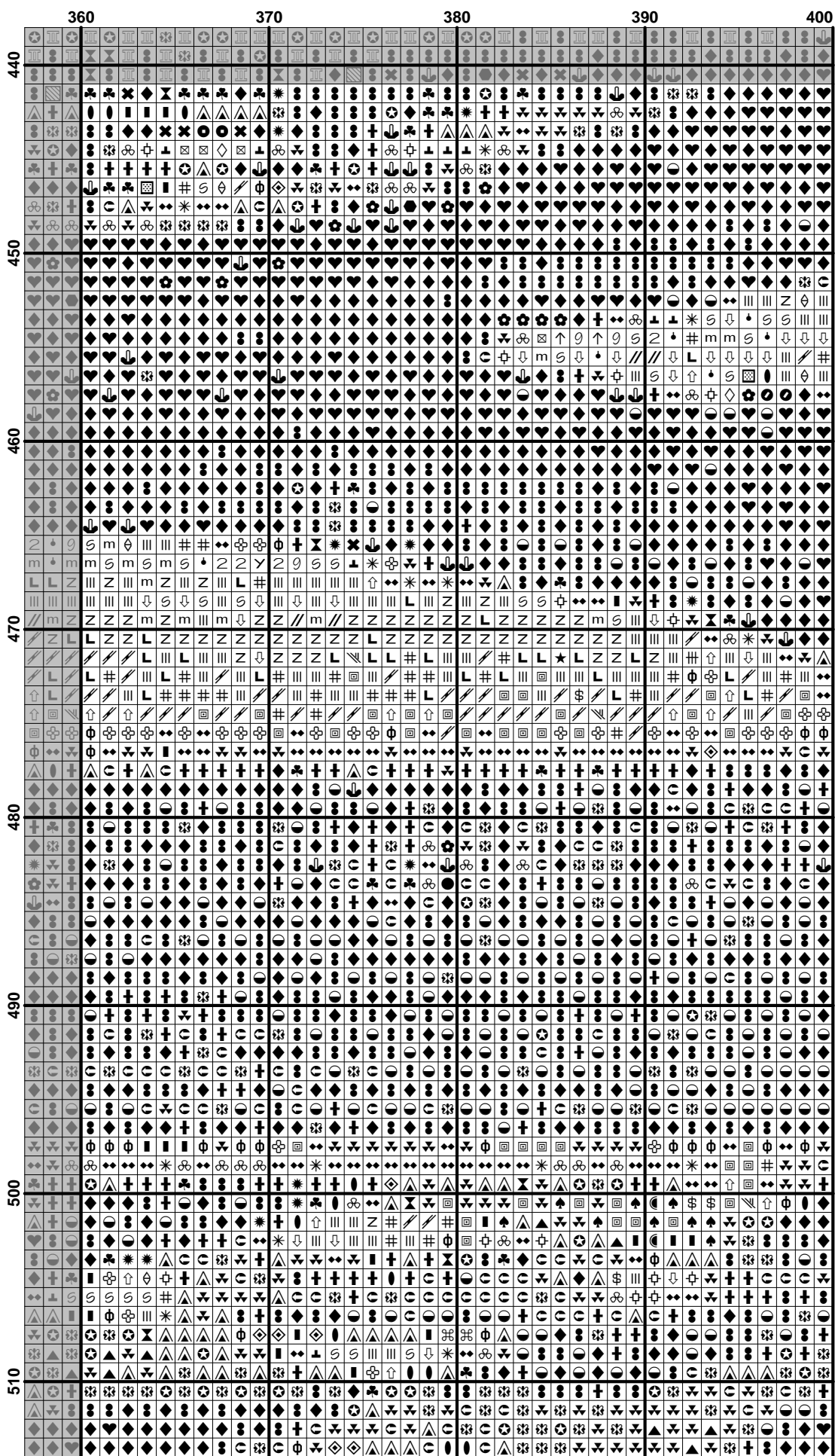












[illegible]

