

## 930 An Oleander



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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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## An Oleander

Stitch Count	
Horizontal:	380
Vertical:	536

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:	69	27	98	38.25	60	23.62	85	33.46	54	21	76	29.75
Including Margins:	85	34	114	45	76	30	101	40	70	28	92	36
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	96	37.8	137	53.55	80	31.5	114	44.62	40	15.75	57	22.31
Including Margins:	112	44	153	60	96	38	130	51	56	22	73	29
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	38	15.12	54	21.42	37	14.53	52	20.59	35	14	50	19.83
Including Margins:	54	22	70	28	53	21	68	27	51	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:	34	13.5	49	19.12	32	12.6	45	17.85	30	11.81	42	16.73
Including Margins:	50	20	65	26	48	19	61	24	46	18	58	23

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
∞	1	White 1
∅	224	Shell Pink-VY LT
●	300	Mahogany-VY DK
✕	301	Mahogany-MD
⊕	356	Terra Cotta-MD
★	371	Mustard
+	372	Mustard-LT
✕	400	Mahogany-DK
٪	402	Mahogany-VY LT
m	407	Desert Sand-DK
*	420	Hazelnut Brown-DK
⇒	422	Hazelnut Brown-LT
↓	433	Brown-MD
≡	434	Brown-LT
◇	437	Tan-LT
⊕	503	Blue Green-MD
⊕	524	Fern Green-VY LT
✓	543	Beige Brown-UL VY LT
▣	610	Drab Brown-DK
✕	611	Drab Brown
⊗	612	Drab Brown-LT
▼	632	Desert Sand-UL VY DK
▼	640	Beige Gray-VY DK
l	644	Beige Gray-MD
≡	645	Beaver Gray-VY DK
h	647	Beaver Gray-MD
∅	676	Old Gold-LT
β	677	Old Gold-VY LT
::	712	Cream
◎	721	Orange Spice-MD
▲	722	Orange Spice-LT
▷	725	Topaz
Δ	738	Tan-VY LT
○	739	Tan-UL VY LT
?	744	Yellow -Pale
9	745	Yellow -LT Pale
Δ	746	Off White
⊕	780	Topaz-UL VY DK
✕	801	Coffee Brown-DK
5	822	Beige Gray-LT
▨	829	Golden Olive-VY DK
▨	830	Golden Olive-DK

✱	831	Golden Olive-MD
//	834	Golden Olive-VY LT
●	838	Beige Brown-VY DK
▲	839	Beige Brown-DK
≡	840	Beige Brown-MD
▲	869	Hazelnut Brown-VY DK
⊗	898	Coffee Brown-VY DK
▨	919	Red Copper
l	920	Copper-MD
⊕	921	Copper
Δ	927	Gray Green-LT
●	938	Coffee Brown-UL DK
5	945	Tawny
⊕	977	Golden Brown-LT
▨	3021	Brown Gray -VY DK
..	3022	Brown Gray -MD
<	3024	Brown Gray -VY LT
○	3045	Yellow Beige-DK
u	3046	Yellow Beige-MD
(	3078	Golden Yellow -VY LT
△	3756	Baby Blue-UL VY LT
«	3772	Desert Sand-VY DK
u	3774	Desert Sand-VY LT
⊕	3776	Mahogany-LT
←	3781	Mocha Brown-DK
⊕	3787	Brown Gray -DK
▨	3790	Beige Gray -UL DK
↑	3802	Antique Mauve-VY DK
=	3813	Blue Green-LT
/	3822	Straw -LT
≡	3823	Yellow -UL Pale
-	3825	Pumpkin-Pale
⊗	3826	Golden Brown
z	3828	Hazelnut Brown
*	3829	Old Gold-VY DK
⊕	3830	Terra Cotta-MD
⊕	3853	Autumn Gold-DK
v	3854	Autumn Gold-MD
a	3855	Autumn Gold-LT
z	3856	Mahogany-UL VY LT
♥	3857	Rosewood-DK
▨	3862	Mocha Beige-DK
◀	3864	Mocha Beige-LT
♡	3865	Winter White

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

Symbol	DMC1	Name1	DMC2	Name2
✦	420	Hazelnut Brown-DK	434	Brown-LT
◁	3828	Hazelnut Brown	370	Mustard-MD
⊙	834	Golden Olive-VY LT	977	Golden Brown-LT
⌞	729	Old Gold-MD	976	Golden Brown-MD
⦶	435	Brown-VY LT	680	Old Gold-DK
✕	435	Brown-VY LT	3828	Hazelnut Brown
⊞	420	Hazelnut Brown-DK	435	Brown-VY LT
✧	435	Brown-VY LT	729	Old Gold-MD
♠	434	Brown-LT	435	Brown-VY LT
♣	433	Brown-MD	869	Hazelnut Brown-VY DK
⌘	3827	Golden Brown-Pale	729	Old Gold-MD
⌚	976	Golden Brown-MD	977	Golden Brown-LT
△	434	Brown-LT	3828	Hazelnut Brown
□	420	Hazelnut Brown-DK	3828	Hazelnut Brown
⌚	420	Hazelnut Brown-DK	3045	Yellow Beige-DK
⬆	3045	Yellow Beige-DK	372	Mustard-LT
↑	436	Tan	437	Tan-LT
⊙	3827	Golden Brown-Pale	3828	Hazelnut Brown
L	3828	Hazelnut Brown	3862	Mocha Beige-DK
⌚	729	Old Gold-MD	3828	Hazelnut Brown
⊞	436	Tan	3045	Yellow Beige-DK
⌚	437	Tan-LT	3045	Yellow Beige-DK
⬆	3857	Rosewood-DK	838	Beige Brown-VY DK
■	632	Desert Sand-UL VY DK	839	Beige Brown-DK
◆	838	Beige Brown-VY DK	839	Beige Brown-DK
⊙	3802	Antique Mauve-VY DK	938	Coffee Brown-UL DK
φ	434	Brown-LT	3830	Terra Cotta-MD
⦶	435	Brown-VY LT	3830	Terra Cotta-MD
☆	839	Beige Brown-DK	898	Coffee Brown-VY DK
⌚	632	Desert Sand-UL VY DK	838	Beige Brown-VY DK
L	676	Old Gold-LT	3827	Golden Brown-Pale
⌚	977	Golden Brown-LT	3820	Straw -DK
⬆	729	Old Gold-MD	977	Golden Brown-LT
⌚	977	Golden Brown-LT	3854	Autumn Gold-MD
7	3821	Straw	3827	Golden Brown-Pale
1	3821	Straw	3822	Straw -LT
∇	729	Old Gold-MD	3821	Straw
⦶	3857	Rosewood-DK	975	Golden Brown-DK
⌚	782	Topaz-DK	3826	Golden Brown
⌚	3826	Golden Brown	3776	Mahogany-LT
●	301	Mahogany-MD	435	Brown-VY LT
c	780	Topaz-UL VY DK	435	Brown-VY LT
■	938	Coffee Brown-UL DK	3371	Black Brown
■	838	Beige Brown-VY DK	3371	Black Brown
●	3857	Rosewood-DK	938	Coffee Brown-UL DK
➡	300	Mahogany-VY DK	975	Golden Brown-DK
⦶	3857	Rosewood-DK	632	Desert Sand-UL VY DK
⌚	976	Golden Brown-MD	782	Topaz-DK
**	920	Copper-MD	921	Copper
⌚	721	Orange Spice-MD	921	Copper
⌚	720	Orange Spice-DK	921	Copper
3	745	Yellow -LT Pale	3825	Pumpkin-Pale
>	3823	Yellow -UL Pale	3856	Mahogany-UL VY LT

↑	3865	Winter White	1	White 1
•	822	Beige Gray-LT	3756	Baby Blue-UL VY LT
✓	955	Nile Green-LT	3024	Brown Gray -VY LT
►	420	Hazelnut Brown-DK	975	Golden Brown-DK
..	3820	Straw -DK	3853	Autumn Gold-DK
↩	435	Brown-VY LT	3853	Autumn Gold-DK
↖	721	Orange Spice-MD	722	Orange Spice-LT
↗	3776	Mahogany-LT	722	Orange Spice-LT
	721	Orange Spice-MD	3776	Mahogany-LT
☾	3776	Mahogany-LT	356	Terra Cotta-MD
⬆	434	Brown-LT	975	Golden Brown-DK
⊗	437	Tan-LT	356	Terra Cotta-MD
⬆	721	Orange Spice-MD	3853	Autumn Gold-DK
✦	947	Burnt Orange	721	Orange Spice-MD
	720	Orange Spice-DK	721	Orange Spice-MD
☐	347	Salmon-VY DK	921	Copper
☐	900	Burnt Orange-DK	921	Copper
●	347	Salmon-VY DK	920	Copper-MD
☐	3772	Desert Sand-VY DK	355	Terra Cotta-DK
⬆	434	Brown-LT	3777	Terra Cotta-VY DK
☐	221	Shell Pink-VY DK	632	Desert Sand-UL VY DK
◊	3776	Mahogany-LT	921	Copper
☐	435	Brown-VY LT	977	Golden Brown-LT
☐	977	Golden Brown-LT	3776	Mahogany-LT
☐	722	Orange Spice-LT	725	Topaz
✱	976	Golden Brown-MD	3853	Autumn Gold-DK
+	221	Shell Pink-VY DK	301	Mahogany-MD
=	355	Terra Cotta-DK	921	Copper
☐	3854	Autumn Gold-MD	743	Yellow -MD
4	436	Tan	3853	Autumn Gold-DK
⬆	722	Orange Spice-LT	3853	Autumn Gold-DK
☐	402	Mahogany-VY LT	3827	Golden Brown-Pale
6	3823	Yellow -UL Pale	746	Off White
)	744	Yellow -Pale	745	Yellow -LT Pale
☐	3828	Hazelnut Brown	3012	Khaki Green-MD
o	3012	Khaki Green-MD	434	Brown-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	
1	White 1	2054	808	1956	770	1760	692
221	Shell Pink-VY DK	266	104	253	99	228	89
224	Shell Pink-VY LT	12	4	11	4	10	3
300	Mahogany-VY DK	330	129	315	124	283	111
301	Mahogany-MD	505	198	481	189	433	170
347	Salmon-VY DK	326	128	310	122	279	109
355	Terra Cotta-DK	278	109	265	104	238	93
356	Terra Cotta-MD	263	103	250	98	225	88
370	Mustard-MD	137	53	130	51	117	46
371	Mustard	237	93	225	88	203	79
372	Mustard-LT	195	76	186	73	167	65
400	Mahogany-DK	85	33	81	31	73	28
402	Mahogany-VY LT	198	77	189	74	170	66
407	Desert Sand-DK	101	39	96	37	86	33
420	Hazelnut Brown-DK	1583	623	1508	593	1357	534
422	Hazelnut Brown-LT	509	200	485	190	436	171
433	Brown-MD	597	235	569	224	512	201
434	Brown-LT	1628	640	1551	610	1396	549
435	Brown-VY LT	2196	864	2091	823	1882	740
436	Tan	462	181	440	173	396	155
437	Tan-LT	831	327	791	311	712	280
503	Blue Green-MD	10	3	9	3	8	3
524	Fern Green-VY LT	51	20	48	18	43	16
543	Beige Brown-UL VY LT	17	6	16	6	14	5
610	Drab Brown-DK	349	137	332	130	299	117
611	Drab Brown	164	64	156	61	141	55
612	Drab Brown-LT	310	122	295	116	265	104
632	Desert Sand-UL VY DK	1686	663	1605	631	1445	568
640	Beige Gray-VY DK	56	22	53	20	48	18
644	Beige Gray-MD	79	31	76	29	68	26
645	Beaver Gray-VY DK	25	9	24	9	22	8
647	Beaver Gray-MD	47	18	45	17	40	15
676	Old Gold-LT	744	292	709	279	638	251
677	Old Gold-VY LT	207	81	197	77	178	70
680	Old Gold-DK	355	139	338	133	304	119
712	Cream	40	15	38	14	34	13
720	Orange Spice-DK	1060	417	1010	397	909	357
721	Orange Spice-MD	2688	1058	2560	1007	2304	907
722	Orange Spice-LT	199	78	190	74	171	67
725	Topaz	50	19	48	18	43	16
729	Old Gold-MD	1118	440	1065	419	958	377
738	Tan-VY LT	331	130	315	124	283	111
739	Tan-UL VY LT	145	57	138	54	124	48
743	Yellow-MD	104	40	99	38	89	35
744	Yellow-Pale	463	182	441	173	397	156
745	Yellow-LT Pale	695	273	662	260	596	234
746	Off White	2069	814	1971	775	1774	698
780	Topaz-UL VY DK	200	78	190	74	171	67
782	Topaz-DK	226	88	216	85	194	76
801	Coffee Brown-DK	592	233	563	221	507	199
822	Beige Gray-LT	59	23	56	22	51	20
829	Golden Olive-VY DK	102	40	97	38	87	34
830	Golden Olive-DK	91	35	87	34	78	30
831	Golden Olive-MD	101	39	96	37	87	34

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834	Golden Olive-VY LT	309	121	294	115	265	104
838	Beige Brown-VY DK	1709	672	1628	640	1465	576
839	Beige Brown-DK	955	375	910	358	819	322
840	Beige Brown-MD	131	51	125	49	112	44
869	Hazelnut Brown-VY DK	595	234	566	222	510	200
898	Coffee Brown-VY DK	565	222	538	211	485	190
900	Burnt Orange-DK	434	170	413	162	372	146
919	Red Copper	38	14	36	14	32	12
920	Copper-MD	453	178	432	170	389	153
921	Copper	2746	1081	2615	1029	2353	926
927	Gray Green-LT	14	5	14	5	12	4
938	Coffee Brown-UL DK	1788	703	1703	670	1533	603
945	Tawny	172	67	164	64	148	58
947	Burnt Orange	411	161	391	153	352	138
955	Nile Green-LT	12	4	12	4	10	3
975	Golden Brown-DK	622	244	592	233	533	209
976	Golden Brown-MD	481	189	458	180	412	162
977	Golden Brown-LT	995	391	947	372	852	335
3012	Khaki Green-MD	292	114	278	109	250	98
3021	Brown Gray -VY DK	213	83	203	79	182	71
3022	Brown Gray -MD	63	24	60	23	54	21
3024	Brown Gray -VY LT	43	16	41	16	37	14
3045	Yellow Beige-DK	960	377	915	360	823	324
3046	Yellow Beige-MD	538	211	512	201	461	181
3078	Golden Yellow -VY LT	495	194	471	185	424	166
3371	Black Brown	567	223	540	212	486	191
3756	Baby Blue-UL VY LT	35	13	34	13	30	11
3772	Desert Sand-VY DK	407	160	388	152	349	137
3774	Desert Sand-VY LT	29	11	27	10	25	9
3776	Mahogany-LT	845	332	805	316	724	285
3777	Terra Cotta-VY DK	62	24	59	23	53	20
3781	Mocha Brown-DK	156	61	149	58	134	52
3787	Brown Gray -DK	101	39	96	37	86	33
3790	Beige Gray-UL DK	120	47	114	44	103	40
3802	Antique Mauve-VY DK	159	62	151	59	136	53
3813	Blue Green-LT	11	4	10	3	9	3
3820	Straw -DK	102	40	97	38	88	34
3821	Straw	282	111	268	105	242	95
3822	Straw -LT	301	118	287	112	258	101
3823	Yellow -UL Pale	1572	618	1497	589	1348	530
3825	Pumpkin-Pale	295	116	281	110	253	99
3826	Golden Brown	493	194	470	185	423	166
3827	Golden Brown-Pale	981	386	934	367	840	330
3828	Hazelnut Brown	2291	901	2182	859	1964	773
3829	Old Gold-VY DK	160	62	152	59	137	53
3830	Terra Cotta-MD	545	214	519	204	467	183
3853	Autumn Gold-DK	483	190	460	181	414	162
3854	Autumn Gold-MD	322	126	307	120	276	108
3855	Autumn Gold-LT	521	205	496	195	447	175
3856	Mahogany-UL VY LT	438	172	418	164	376	148
3857	Rosewood-DK	1313	516	1250	492	1125	442
3862	Mocha Beige-DK	821	323	782	307	704	277
3864	Mocha Beige-LT	128	50	122	48	110	43
3865	Winter White	1631	642	1553	611	1398	550



Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	3168	1246	2640	1038	1320	519
221	Shell Pink-VY DK	410	160	342	134	171	67
224	Shell Pink-VY LT	18	5	15	5	8	2
300	Mahogany-VY DK	509	200	425	167	212	83
301	Mahogany-MD	779	306	650	255	325	128
347	Salmon-VY DK	502	196	419	164	209	82
355	Terra Cotta-DK	428	167	357	140	179	70
356	Terra Cotta-MD	405	158	338	132	169	66
370	Mustard-MD	211	83	176	69	88	35
371	Mustard	365	142	305	119	152	59
372	Mustard-LT	301	117	251	98	125	49
400	Mahogany-DK	131	50	110	42	55	21
402	Mahogany-VY LT	306	119	255	99	128	50
407	Desert Sand-DK	155	59	129	50	65	25
420	Hazelnut Brown-DK	2443	961	2036	801	1018	401
422	Hazelnut Brown-LT	785	308	654	257	327	128
433	Brown-MD	922	362	768	302	384	151
434	Brown-LT	2513	988	2094	824	1047	412
435	Brown-VY LT	3388	1332	2823	1110	1412	555
436	Tan	713	279	594	233	297	116
437	Tan-LT	1282	504	1068	420	534	210
503	Blue Green-MD	14	5	12	5	6	2
524	Fern Green-VY LT	77	29	65	24	32	12
543	Beige Brown-UL VY LT	25	9	21	8	11	4
610	Drab Brown-DK	538	211	449	176	224	88
611	Drab Brown	254	99	212	83	106	41
612	Drab Brown-LT	477	187	398	156	199	78
632	Desert Sand-UL VY DK	2601	1022	2168	852	1084	426
640	Beige Gray-VY DK	86	32	72	27	36	14
644	Beige Gray-MD	122	47	102	39	51	20
645	Beaver Gray-VY DK	40	14	33	12	17	6
647	Beaver Gray-MD	72	27	60	23	30	11
676	Old Gold-LT	1148	452	957	377	479	188
677	Old Gold-VY LT	320	126	267	105	134	53
680	Old Gold-DK	547	214	456	179	228	89
712	Cream	61	23	51	20	26	10
720	Orange Spice-DK	1636	643	1364	536	682	268
721	Orange Spice-MD	4147	1633	3456	1361	1728	680
722	Orange Spice-LT	308	121	257	101	128	50
725	Topaz	77	29	65	24	32	12
729	Old Gold-MD	1724	679	1437	566	719	283
738	Tan-VY LT	509	200	425	167	212	83
739	Tan-UL VY LT	223	86	186	72	93	36
743	Yellow-MD	160	63	134	53	67	26
744	Yellow-Pale	715	281	596	234	298	117
745	Yellow-LT Pale	1073	421	894	351	447	176
746	Off White	3193	1256	2661	1047	1331	524
780	Topaz-UL VY DK	308	121	257	101	128	50
782	Topaz-DK	349	137	291	114	146	57
801	Coffee Brown-DK	913	358	761	299	380	149
822	Beige Gray-LT	92	36	77	30	38	15
829	Golden Olive-VY DK	157	61	131	51	65	26
830	Golden Olive-DK	140	54	117	45	59	23

831	Golden Olive-MD	157	61	131	51	65	26
834	Golden Olive-VY LT	477	187	398	156	199	78
838	Beige Brown-VY DK	2637	1037	2198	864	1099	432
839	Beige Brown-DK	1474	580	1229	483	614	242
840	Beige Brown-MD	202	79	168	66	84	33
869	Hazelnut Brown-VY DK	918	360	765	300	383	150
898	Coffee Brown-VY DK	873	342	728	285	364	143
900	Burnt Orange-DK	670	263	558	219	279	110
919	Red Copper	58	22	48	18	24	9
920	Copper-MD	700	275	584	230	292	115
921	Copper	4235	1667	3530	1389	1765	695
927	Gray Green-LT	22	7	18	6	9	3
938	Coffee Brown-UL DK	2759	1085	2300	905	1150	452
945	Tawny	266	104	222	87	111	44
947	Burnt Orange	634	248	528	207	264	104
955	Nile Green-LT	18	5	15	5	8	2
975	Golden Brown-DK	959	376	800	314	400	157
976	Golden Brown-MD	742	292	618	243	309	122
977	Golden Brown-LT	1534	603	1278	503	639	251
3012	Khaki Green-MD	450	176	375	147	188	74
3021	Brown Gray -VY DK	328	128	273	107	137	53
3022	Brown Gray -MD	97	38	81	32	41	16
3024	Brown Gray -VY LT	67	25	56	21	28	11
3045	Yellow Beige-DK	1481	583	1235	486	617	243
3046	Yellow Beige-MD	830	326	692	272	346	136
3078	Golden Yellow -VY LT	763	299	636	249	318	125
3371	Black Brown	875	344	729	287	365	143
3756	Baby Blue-UL VY LT	54	20	45	17	23	8
3772	Desert Sand-VY DK	628	247	524	206	262	103
3774	Desert Sand-VY LT	45	16	38	14	19	7
3776	Mahogany-LT	1303	513	1086	428	543	214
3777	Terra Cotta-VY DK	95	36	80	30	40	15
3781	Mocha Brown-DK	241	94	201	78	101	39
3787	Brown Gray -DK	155	59	129	50	65	25
3790	Beige Gray-UL DK	185	72	155	60	77	30
3802	Antique Mauve-VY DK	245	95	204	80	102	40
3813	Blue Green-LT	16	5	14	5	7	2
3820	Straw -DK	158	61	132	51	66	26
3821	Straw	436	171	363	143	182	71
3822	Straw-LT	464	182	387	152	194	76
3823	Yellow-UL Pale	2426	954	2022	795	1011	398
3825	Pumpkin-Pale	455	178	380	149	190	74
3826	Golden Brown	761	299	635	249	317	125
3827	Golden Brown-Pale	1512	594	1260	495	630	248
3828	Hazelnut Brown	3535	1391	2946	1160	1473	580
3829	Old Gold-VY DK	247	95	206	80	103	40
3830	Terra Cotta-MD	841	329	701	275	350	137
3853	Autumn Gold-DK	745	292	621	243	311	122
3854	Autumn Gold-MD	497	194	414	162	207	81
3855	Autumn Gold-LT	805	315	671	263	335	131
3856	Mahogany-UL VY LT	677	266	564	222	282	111
3857	Rosewood-DK	2025	796	1688	663	844	332
3862	Mocha Beige-DK	1267	499	1056	416	528	208
3864	Mocha Beige-LT	198	77	165	65	83	32
3865	Winter White	2516	990	2097	825	1049	413

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	1267	498	1218	479	1173	461
221	Shell Pink-VY DK	164	64	158	62	152	59
224	Shell Pink-VY LT	7	2	7	2	7	2
300	Mahogany-VY DK	204	80	196	77	189	74
301	Mahogany-MD	312	122	300	118	289	113
347	Salmon-VY DK	201	78	193	75	186	73
355	Terra Cotta-DK	171	67	165	64	159	62
356	Terra Cotta-MD	162	63	156	61	150	59
370	Mustard-MD	84	33	81	32	78	31
371	Mustard	146	57	141	55	135	53
372	Mustard-LT	120	47	116	45	111	43
400	Mahogany-DK	53	20	51	19	49	19
402	Mahogany-VY LT	122	48	118	46	113	44
407	Desert Sand-DK	62	24	60	23	57	22
420	Hazelnut Brown-DK	977	384	939	370	905	356
422	Hazelnut Brown-LT	314	123	302	118	291	114
433	Brown-MD	369	145	354	139	341	134
434	Brown-LT	1005	395	966	380	931	366
435	Brown-VY LT	1355	533	1303	512	1255	493
436	Tan	285	112	274	107	264	103
437	Tan-LT	513	202	493	194	475	187
503	Blue Green-MD	6	2	6	2	5	2
524	Fern Green-VY LT	31	12	30	11	29	11
543	Beige Brown-UL VY LT	10	4	10	3	9	3
610	Drab Brown-DK	215	84	207	81	199	78
611	Drab Brown	102	40	98	38	94	37
612	Drab Brown-LT	191	75	183	72	177	69
632	Desert Sand-UL VY DK	1040	409	1000	393	963	379
640	Beige Gray-VY DK	35	13	33	12	32	12
644	Beige Gray-MD	49	19	47	18	45	17
645	Beaver Gray-VY DK	16	6	15	6	15	5
647	Beaver Gray-MD	29	11	28	10	27	10
676	Old Gold-LT	459	181	442	174	425	167
677	Old Gold-VY LT	128	50	123	48	119	47
680	Old Gold-DK	219	86	210	82	203	79
712	Cream	24	9	24	9	23	9
720	Orange Spice-DK	654	257	629	247	606	238
721	Orange Spice-MD	1659	653	1595	628	1536	605
722	Orange Spice-LT	123	48	118	46	114	45
725	Topaz	31	12	30	11	29	11
729	Old Gold-MD	690	271	663	261	639	251
738	Tan-VY LT	204	80	196	77	189	74
739	Tan-UL VY LT	89	35	86	33	83	32
743	Yellow-MD	64	25	62	24	59	23
744	Yellow-Pale	286	112	275	108	265	104
745	Yellow-LT Pale	429	168	413	162	397	156
746	Off White	1277	503	1228	483	1183	465
780	Topaz-UL VY DK	123	48	118	46	114	45
782	Topaz-DK	140	55	134	53	129	51
801	Coffee Brown-DK	365	143	351	138	338	133
822	Beige Gray-LT	37	14	35	14	34	13
829	Golden Olive-VY DK	63	24	60	24	58	23
830	Golden Olive-DK	56	22	54	21	52	20

831	Golden Olive-MD	63	24	60	24	58	23
834	Golden Olive-VY LT	191	75	183	72	177	69
838	Beige Brown-VY DK	1055	415	1014	399	977	384
839	Beige Brown-DK	590	232	567	223	546	215
840	Beige Brown-MD	81	32	78	30	75	29
869	Hazelnut Brown-VY DK	367	144	353	138	340	133
898	Coffee Brown-VY DK	349	137	336	132	323	127
900	Burnt Orange-DK	268	105	258	101	248	97
919	Red Copper	23	9	22	8	21	8
920	Copper-MD	280	110	269	106	259	102
921	Copper	1694	667	1629	641	1569	617
927	Gray Green-LT	9	3	8	3	8	3
938	Coffee Brown-UL DK	1104	434	1061	417	1022	402
945	Tawny	107	42	102	40	99	39
947	Burnt Orange	253	99	244	96	235	92
955	Nile Green-LT	7	2	7	2	7	2
975	Golden Brown-DK	384	150	369	145	355	139
976	Golden Brown-MD	297	117	285	112	275	108
977	Golden Brown-LT	613	241	590	232	568	223
3012	Khaki Green-MD	180	71	173	68	167	65
3021	Brown Gray-VY DK	131	51	126	49	121	47
3022	Brown Gray-MD	39	15	37	15	36	14
3024	Brown Gray-VY LT	27	10	26	10	25	9
3045	Yellow Beige-DK	593	233	570	224	549	216
3046	Yellow Beige-MD	332	130	319	125	307	121
3078	Golden Yellow-VY LT	305	120	294	115	283	111
3371	Black Brown	350	138	336	132	324	127
3756	Baby Blue-UL VY LT	22	8	21	8	20	7
3772	Desert Sand-VY DK	251	99	242	95	233	91
3774	Desert Sand-VY LT	18	6	17	6	17	6
3776	Mahogany-LT	521	205	501	197	483	190
3777	Terra Cotta-VY DK	38	14	37	14	35	13
3781	Mocha Brown-DK	96	37	93	36	89	35
3787	Brown Gray -DK	62	24	60	23	57	22
3790	Beige Gray-UL DK	74	29	71	28	69	27
3802	Antique Mauve-VY DK	98	38	94	37	91	35
3813	Blue Green-LT	6	2	6	2	6	2
3820	Straw -DK	63	24	61	24	59	23
3821	Straw	174	68	168	66	161	63
3822	Straw-LT	186	73	179	70	172	67
3823	Yellow-UL Pale	971	382	933	367	899	353
3825	Pumpkin-Pale	182	71	175	69	169	66
3826	Golden Brown	305	120	293	115	282	111
3827	Golden Brown-Pale	605	238	582	228	560	220
3828	Hazelnut Brown	1414	557	1360	535	1309	515
3829	Old Gold-VY DK	99	38	95	37	91	35
3830	Terra Cotta-MD	336	132	323	127	311	122
3853	Autumn Gold-DK	298	117	287	112	276	108
3854	Autumn Gold-MD	199	78	191	75	184	72
3855	Autumn Gold-LT	322	126	309	121	298	117
3856	Mahogany-UL VY LT	271	107	260	102	251	99
3857	Rosewood-DK	810	318	779	306	750	295
3862	Mocha Beige-DK	507	199	487	192	469	185
3864	Mocha Beige-LT	79	31	76	30	73	29
3865	Winter White	1007	396	968	381	932	367

Extended thread usage table.

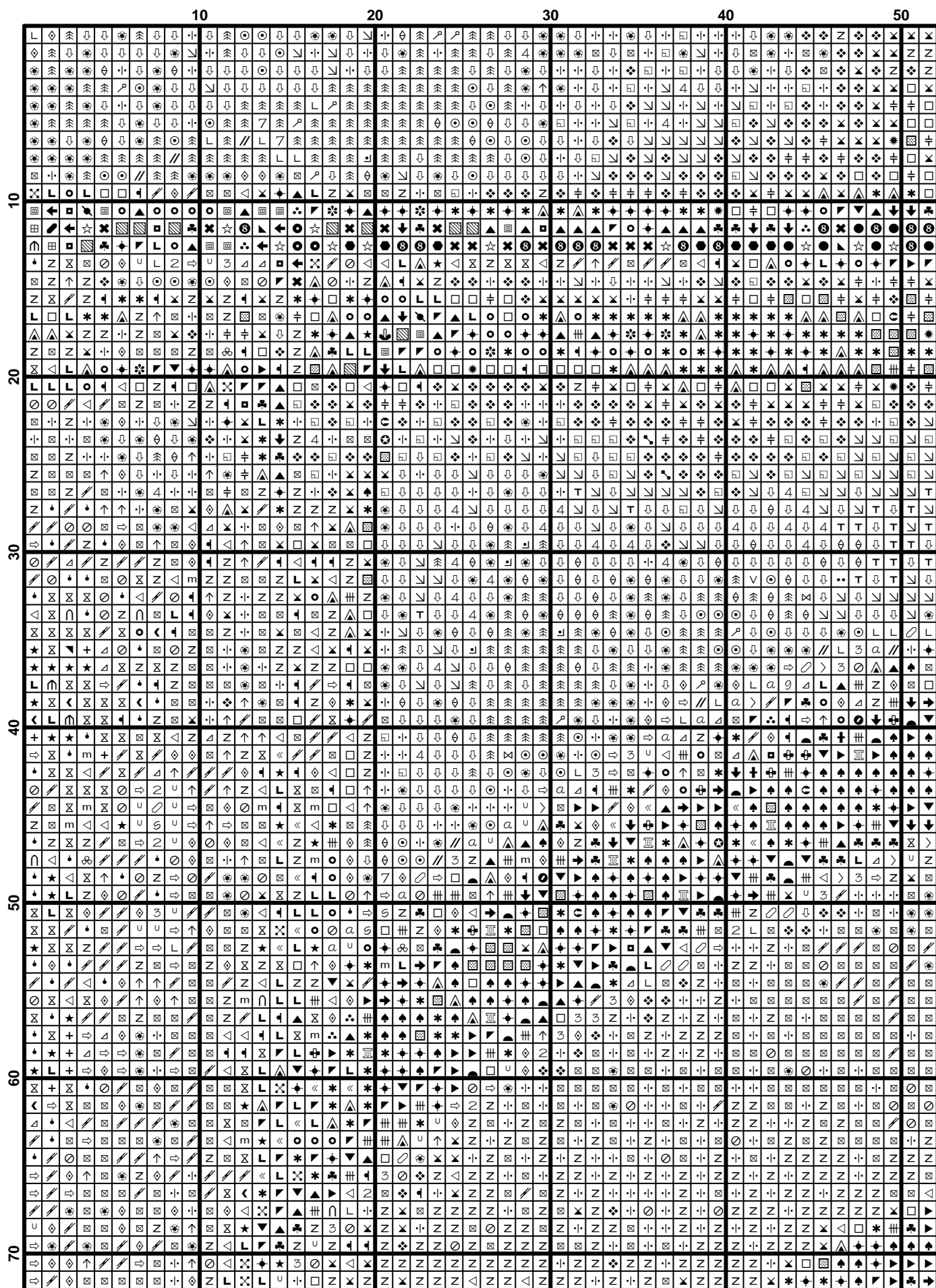
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	1131	445	1056	415	990	389
221	Shell Pink-VY DK	147	57	137	53	128	50
224	Shell Pink-VY LT	6	2	6	2	6	2
300	Mahogany-VY DK	182	71	170	67	159	62
301	Mahogany-MD	278	109	260	102	244	96
347	Salmon-VY DK	179	70	167	65	157	61
355	Terra Cotta-DK	153	60	143	56	134	52
356	Terra Cotta-MD	145	57	135	53	127	50
370	Mustard-MD	75	30	70	28	66	26
371	Mustard	131	51	122	47	114	44
372	Mustard-LT	107	42	100	39	94	37
400	Mahogany-DK	47	18	44	17	41	16
402	Mahogany-VY LT	109	42	102	40	96	37
407	Desert Sand-DK	55	21	52	20	48	19
420	Hazelnut Brown-DK	872	343	814	320	763	300
422	Hazelnut Brown-LT	280	110	262	103	245	96
433	Brown-MD	329	129	307	121	288	113
434	Brown-LT	897	353	838	329	785	309
435	Brown-VY LT	1210	476	1129	444	1059	416
436	Tan	255	100	238	93	223	87
437	Tan-LT	458	180	427	168	401	158
503	Blue Green-MD	5	2	5	2	5	2
524	Fern Green-VY LT	28	10	26	10	24	9
543	Beige Brown-UL VY LT	9	3	8	3	8	3
610	Drab Brown-DK	192	75	179	70	168	66
611	Drab Brown	91	35	85	33	79	31
612	Drab Brown-LT	170	67	159	62	149	59
632	Desert Sand-UL VY DK	929	365	867	341	813	320
640	Beige Gray-VY DK	31	12	29	11	27	10
644	Beige Gray-MD	44	17	41	16	38	15
645	Beaver Gray-VY DK	14	5	13	5	12	5
647	Beaver Gray-MD	26	10	24	9	23	8
676	Old Gold-LT	410	161	383	151	359	141
677	Old Gold-VY LT	114	45	107	42	100	39
680	Old Gold-DK	195	77	182	71	171	67
712	Cream	22	8	20	8	19	7
720	Orange Spice-DK	584	230	545	214	511	201
721	Orange Spice-MD	1481	583	1382	544	1296	510
722	Orange Spice-LT	110	43	103	40	96	38
725	Topaz	28	10	26	10	24	9
729	Old Gold-MD	616	242	575	226	539	212
738	Tan-VY LT	182	71	170	67	159	62
739	Tan-UL VY LT	80	31	74	29	70	27
743	Yellow-MD	57	23	53	21	50	20
744	Yellow-Pale	255	100	238	94	223	88
745	Yellow-LT Pale	383	150	358	140	335	132
746	Off White	1140	449	1064	419	998	393
780	Topaz-UL VY DK	110	43	103	40	96	38
782	Topaz-DK	125	49	116	46	109	43
801	Coffee Brown-DK	326	128	304	119	285	112
822	Beige Gray-LT	33	13	31	12	29	11
829	Golden Olive-VY DK	56	22	52	20	49	19
830	Golden Olive-DK	50	19	47	18	44	17
831	Golden Olive-MD	56	22	52	20	49	19

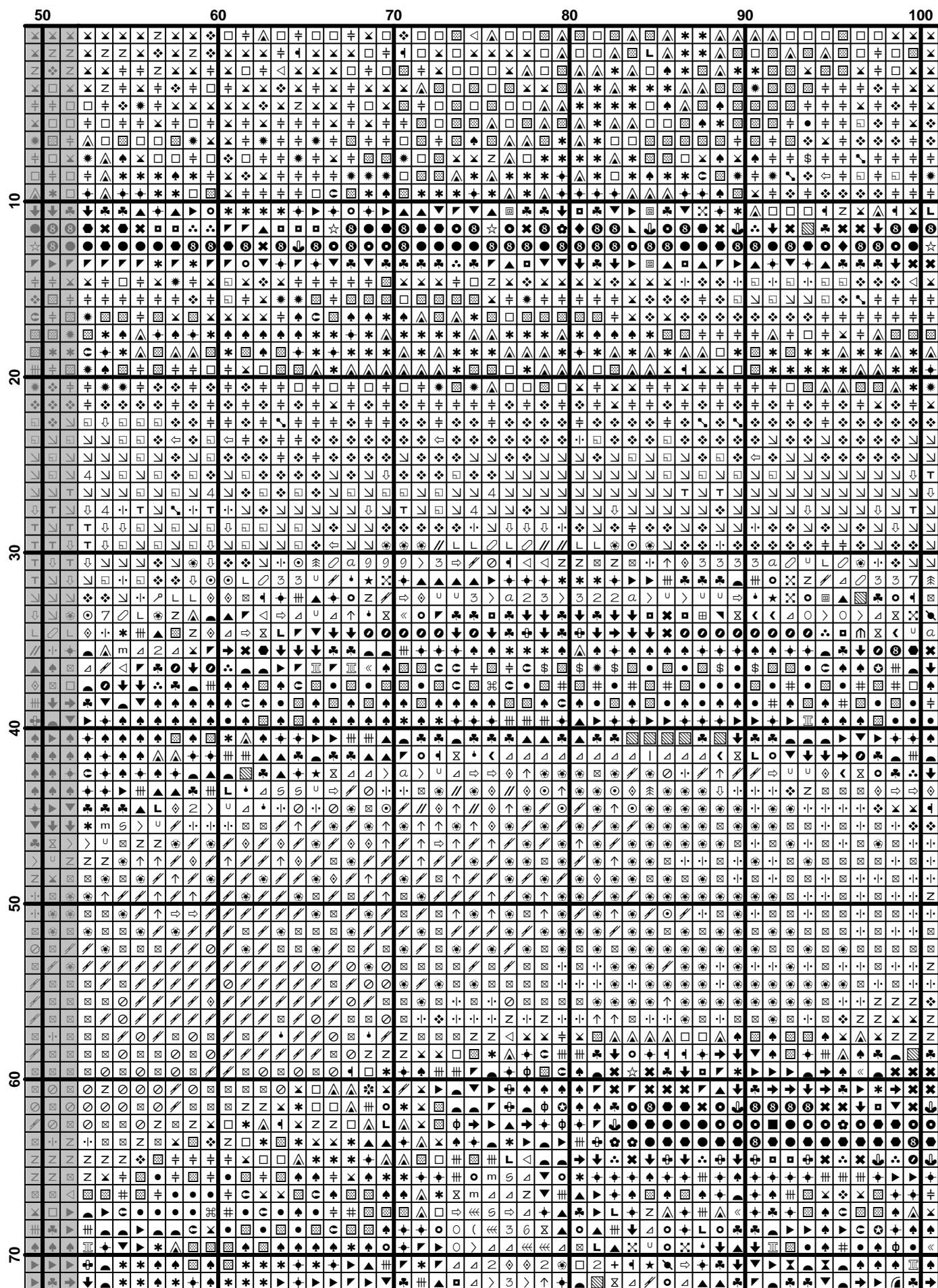
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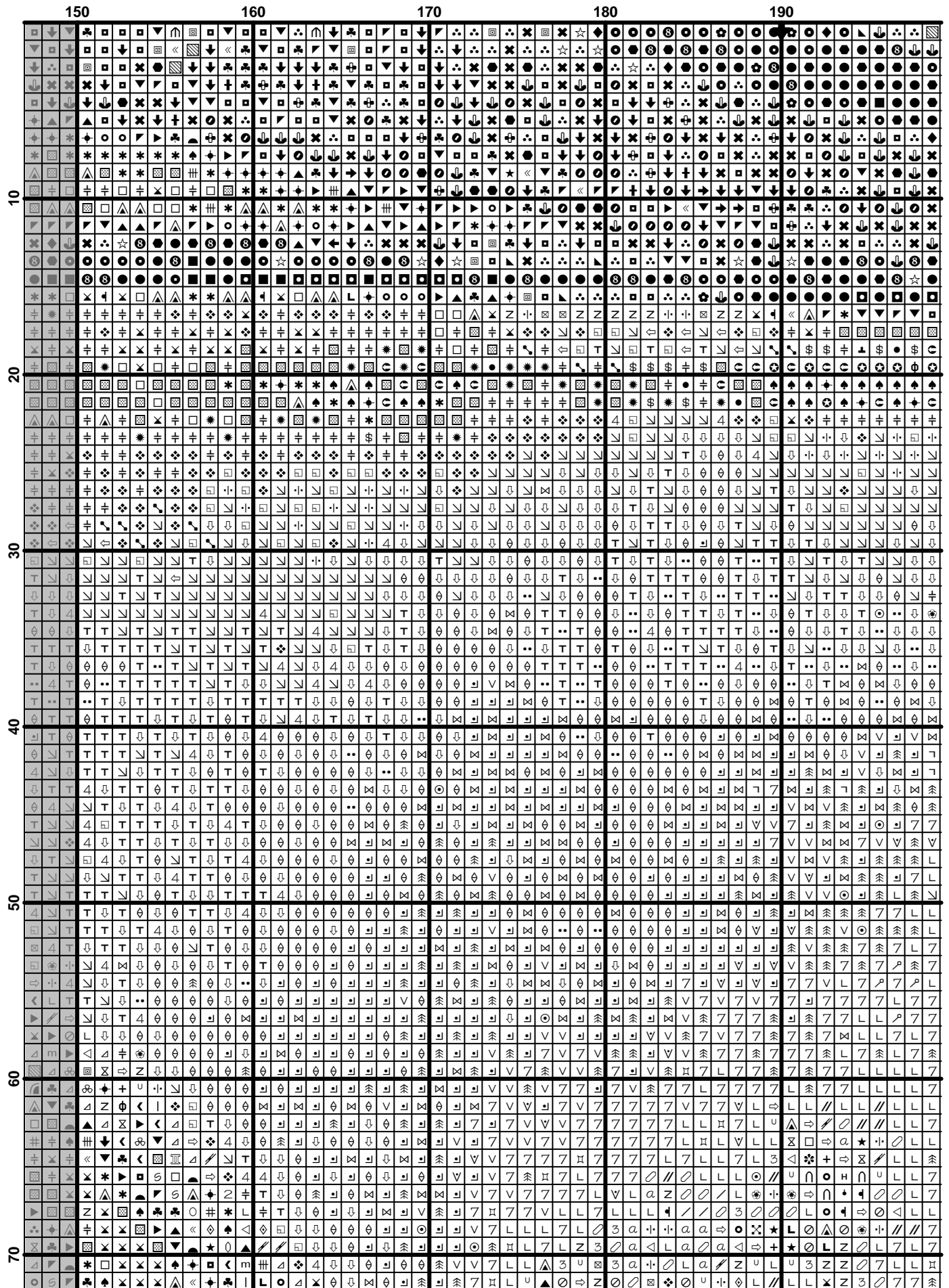
834	Golden Olive-VY LT	170	67	159	62	149	59
838	Beige Brown-VY DK	942	370	879	346	824	324
839	Beige Brown-DK	527	207	491	193	461	181
840	Beige Brown-MD	72	28	67	26	63	25
869	Hazelnut Brown-VY DK	328	129	306	120	287	113
898	Coffee Brown-VY DK	312	122	291	114	273	107
900	Burnt Orange-DK	239	94	223	88	209	82
919	Red Copper	21	8	19	7	18	7
920	Copper-MD	250	98	233	92	219	86
921	Copper	1513	595	1412	556	1324	521
927	Gray Green-LT	8	3	7	2	7	2
938	Coffee Brown-UL DK	986	388	920	362	862	339
945	Tawny	95	37	89	35	83	33
947	Burnt Orange	226	89	211	83	198	78
955	Nile Green-LT	6	2	6	2	6	2
975	Golden Brown-DK	343	134	320	125	300	118
976	Golden Brown-MD	265	104	247	97	232	91
977	Golden Brown-LT	548	215	511	201	479	188
3012	Khaki Green-MD	161	63	150	59	141	55
3021	Brown Gray -VY DK	117	46	109	43	102	40
3022	Brown Gray -MD	35	14	32	13	30	12
3024	Brown Gray -VY LT	24	9	22	8	21	8
3045	Yellow Beige-DK	529	208	494	194	463	182
3046	Yellow Beige-MD	296	116	277	109	259	102
3078	Golden Yellow -VY LT	273	107	254	100	239	93
3371	Black Brown	312	123	292	115	273	107
3756	Baby Blue-UL VY LT	19	7	18	7	17	6
3772	Desert Sand-VY DK	224	88	209	82	196	77
3774	Desert Sand-VY LT	16	6	15	5	14	5
3776	Mahogany-LT	465	183	434	171	407	160
3777	Terra Cotta-VY DK	34	13	32	12	30	11
3781	Mocha Brown-DK	86	33	80	31	75	29
3787	Brown Gray -DK	55	21	52	20	48	19
3790	Beige Gray-UL DK	66	26	62	24	58	23
3802	Antique Mauve-VY DK	87	34	82	32	77	30
3813	Blue Green-LT	6	2	5	2	5	2
3820	Straw -DK	57	22	53	20	50	19
3821	Straw	156	61	145	57	136	53
3822	Straw -LT	166	65	155	61	145	57
3823	Yellow -UL Pale	867	341	809	318	758	298
3825	Pumpkin-Pale	163	64	152	59	142	56
3826	Golden Brown	272	107	254	100	238	93
3827	Golden Brown-Pale	540	212	504	198	473	186
3828	Hazelnut Brown	1263	497	1178	464	1105	435
3829	Old Gold-VY DK	88	34	82	32	77	30
3830	Terra Cotta-MD	300	118	280	110	263	103
3853	Autumn Gold-DK	266	104	248	97	233	91
3854	Autumn Gold-MD	177	69	166	65	155	61
3855	Autumn Gold-LT	287	113	268	105	251	98
3856	Mahogany-UL VY LT	242	95	226	89	212	83
3857	Rosewood-DK	723	284	675	265	633	249
3862	Mocha Beige-DK	453	178	422	166	396	156
3864	Mocha Beige-LT	71	28	66	26	62	24
3865	Winter White	899	354	839	330	786	309

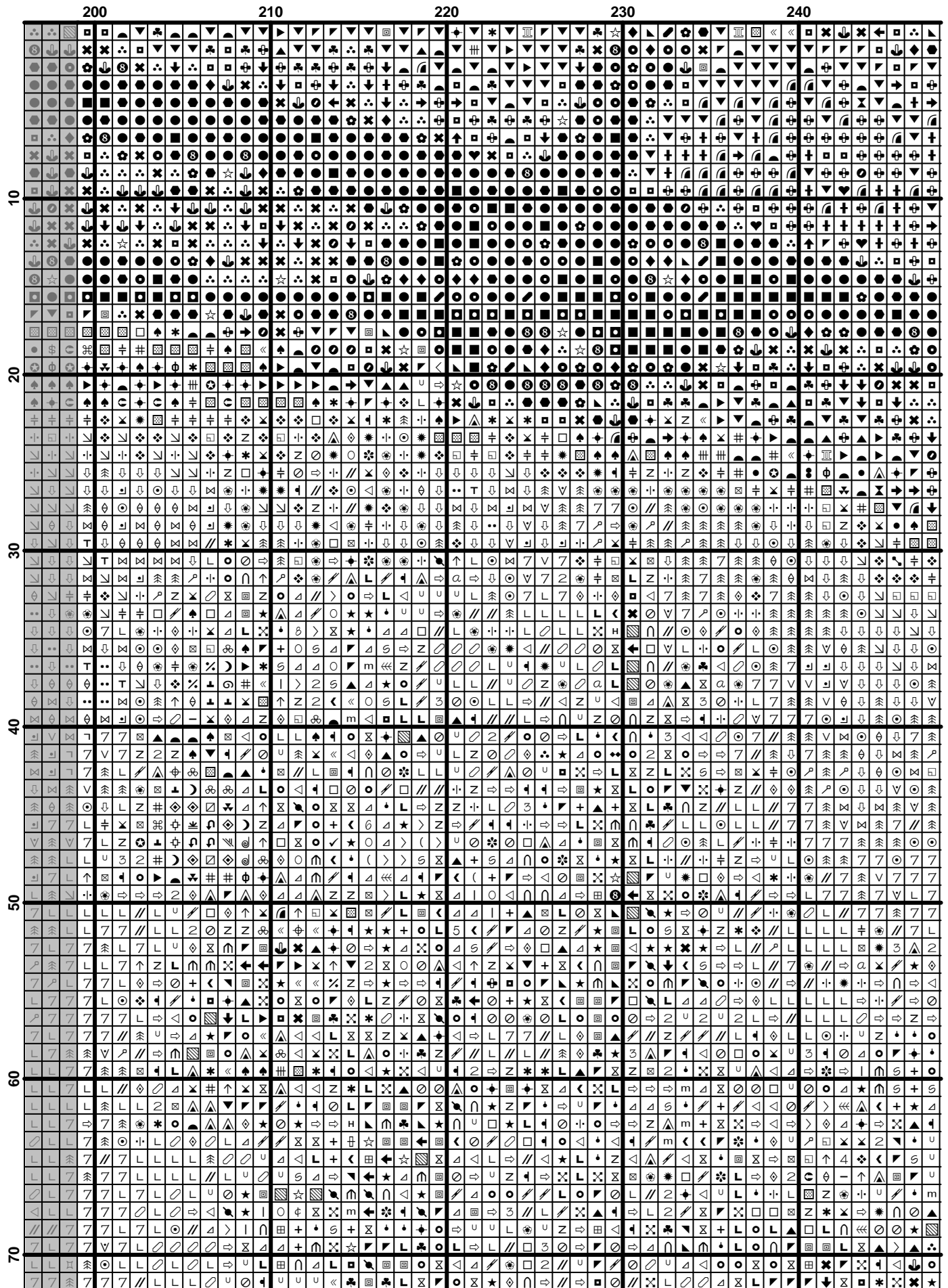


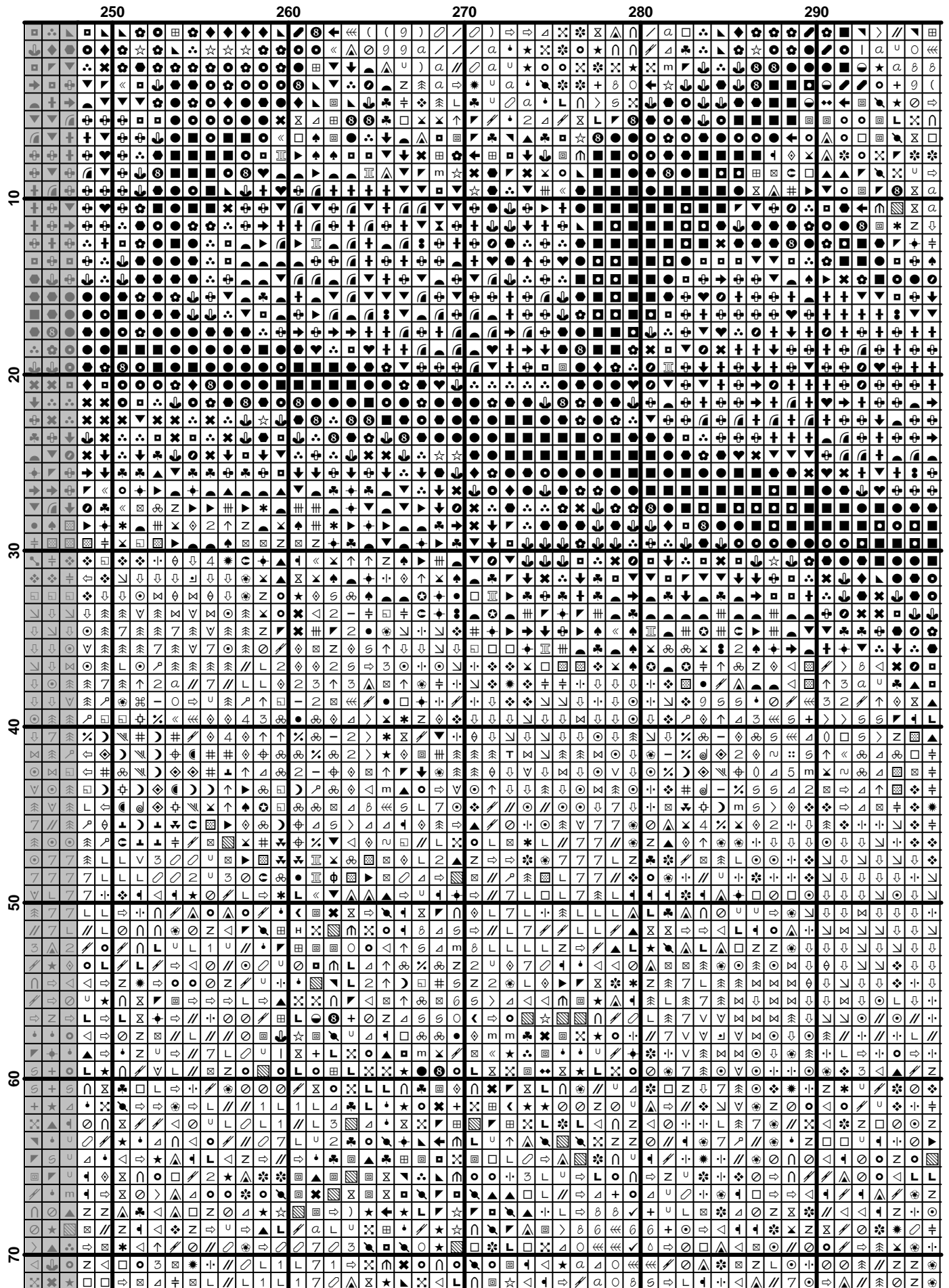




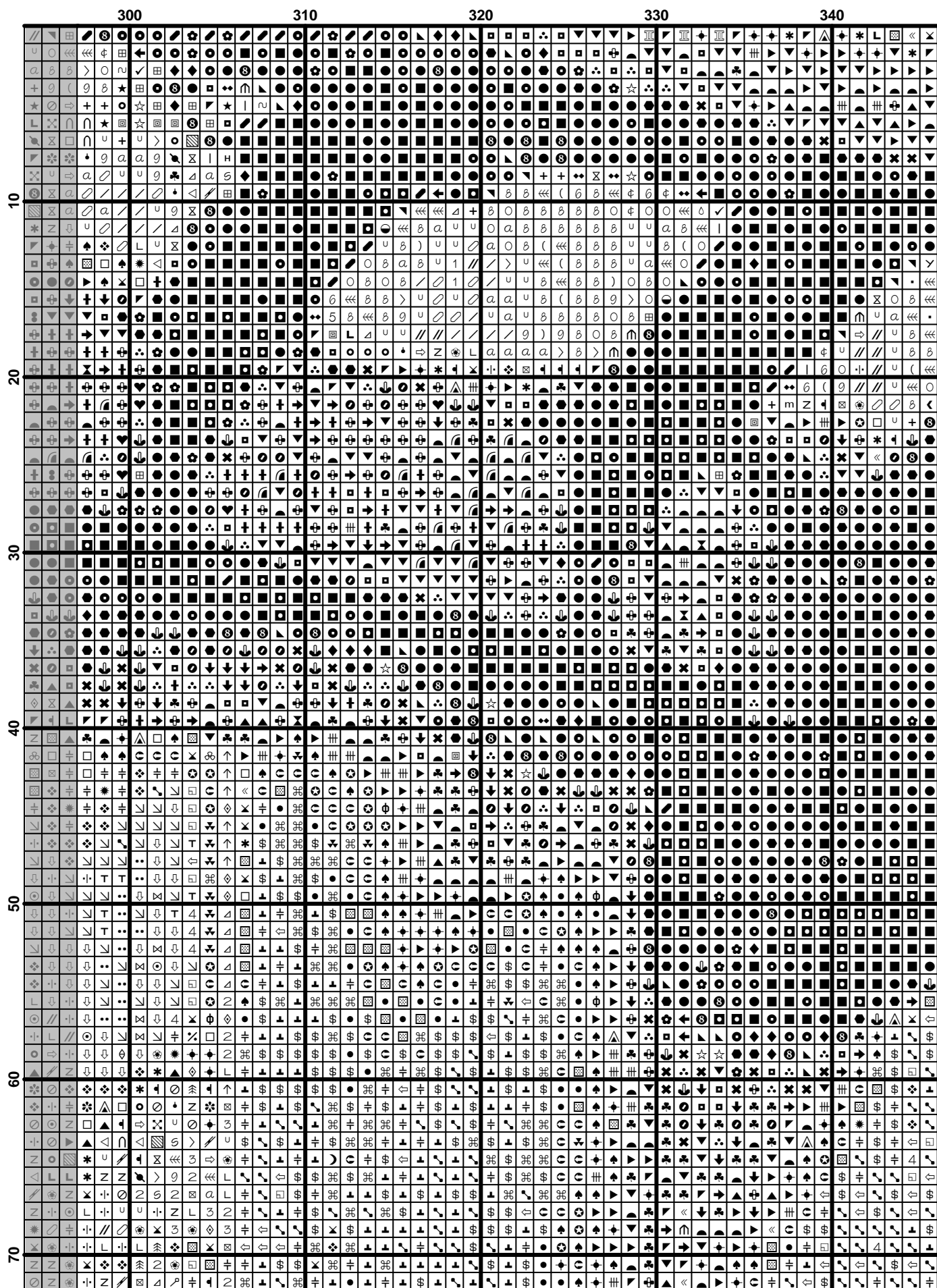
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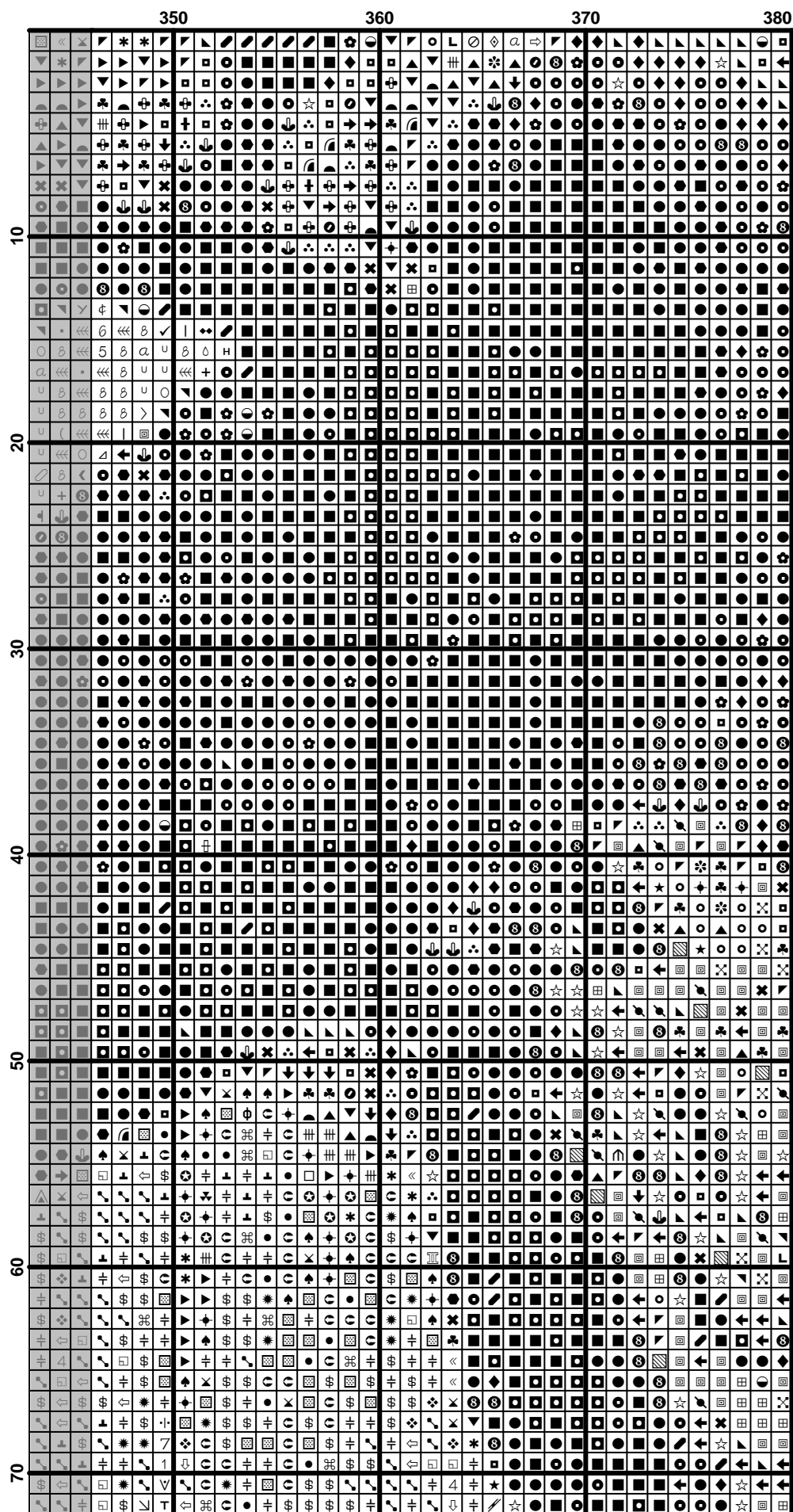


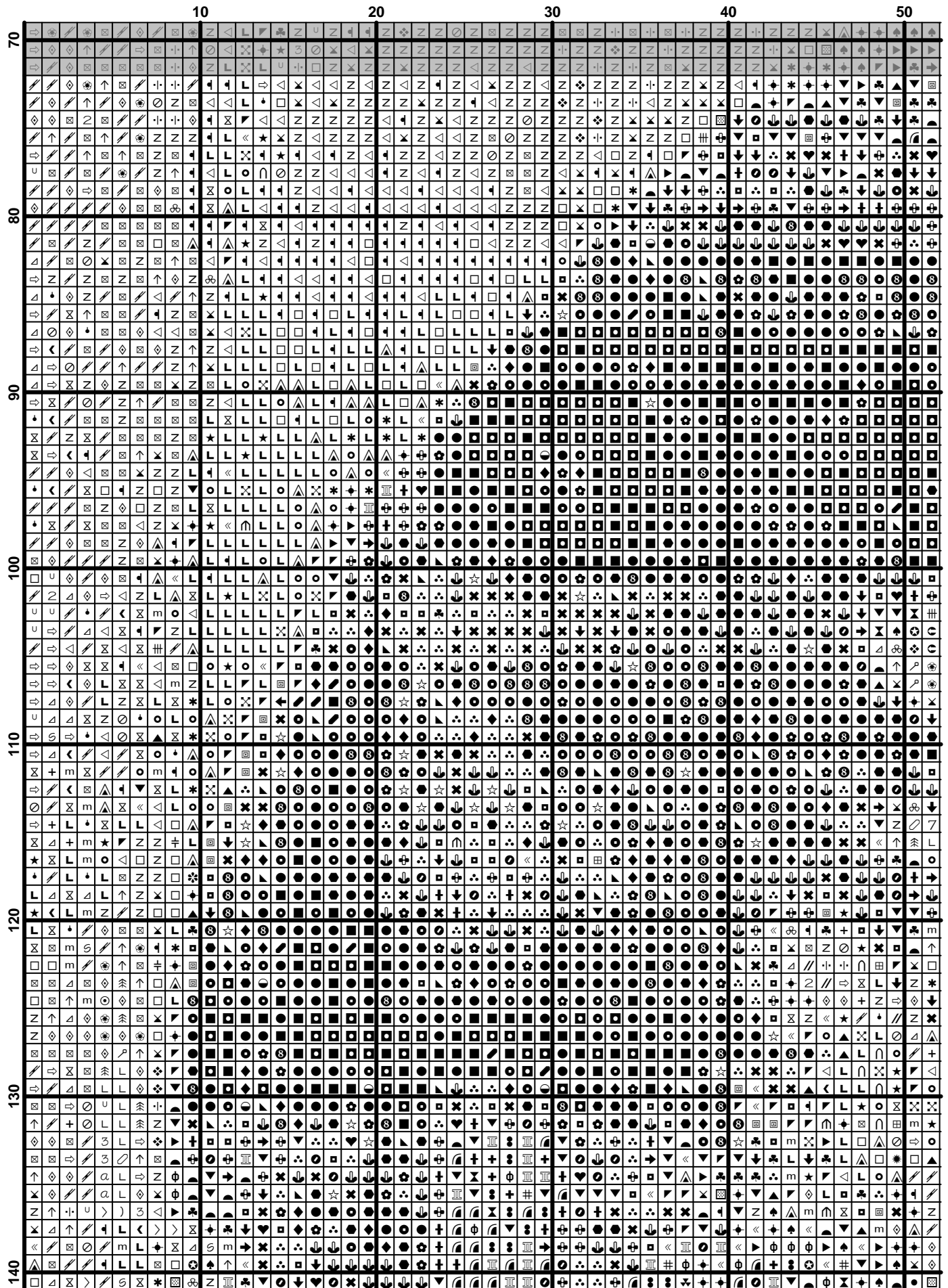


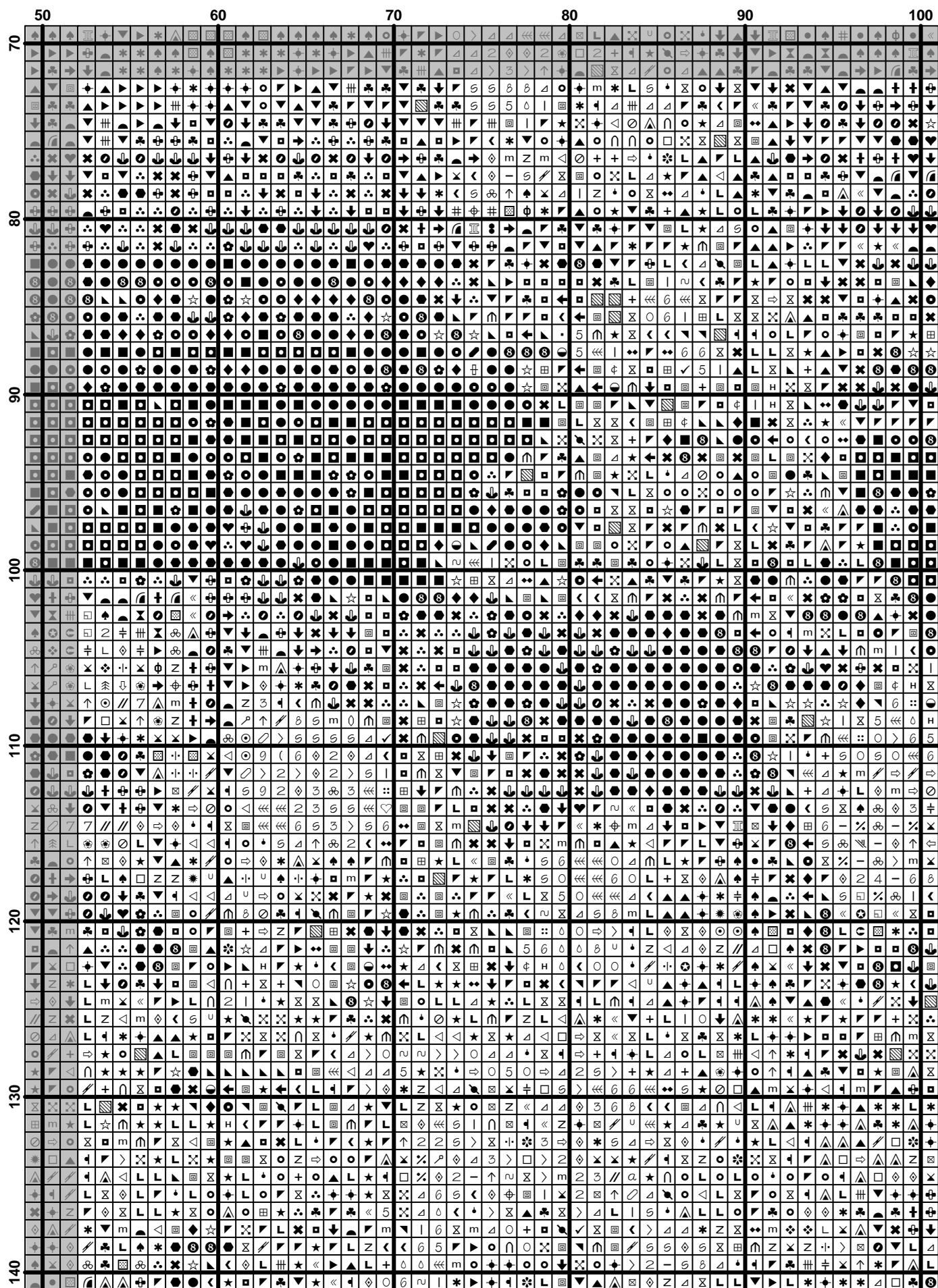


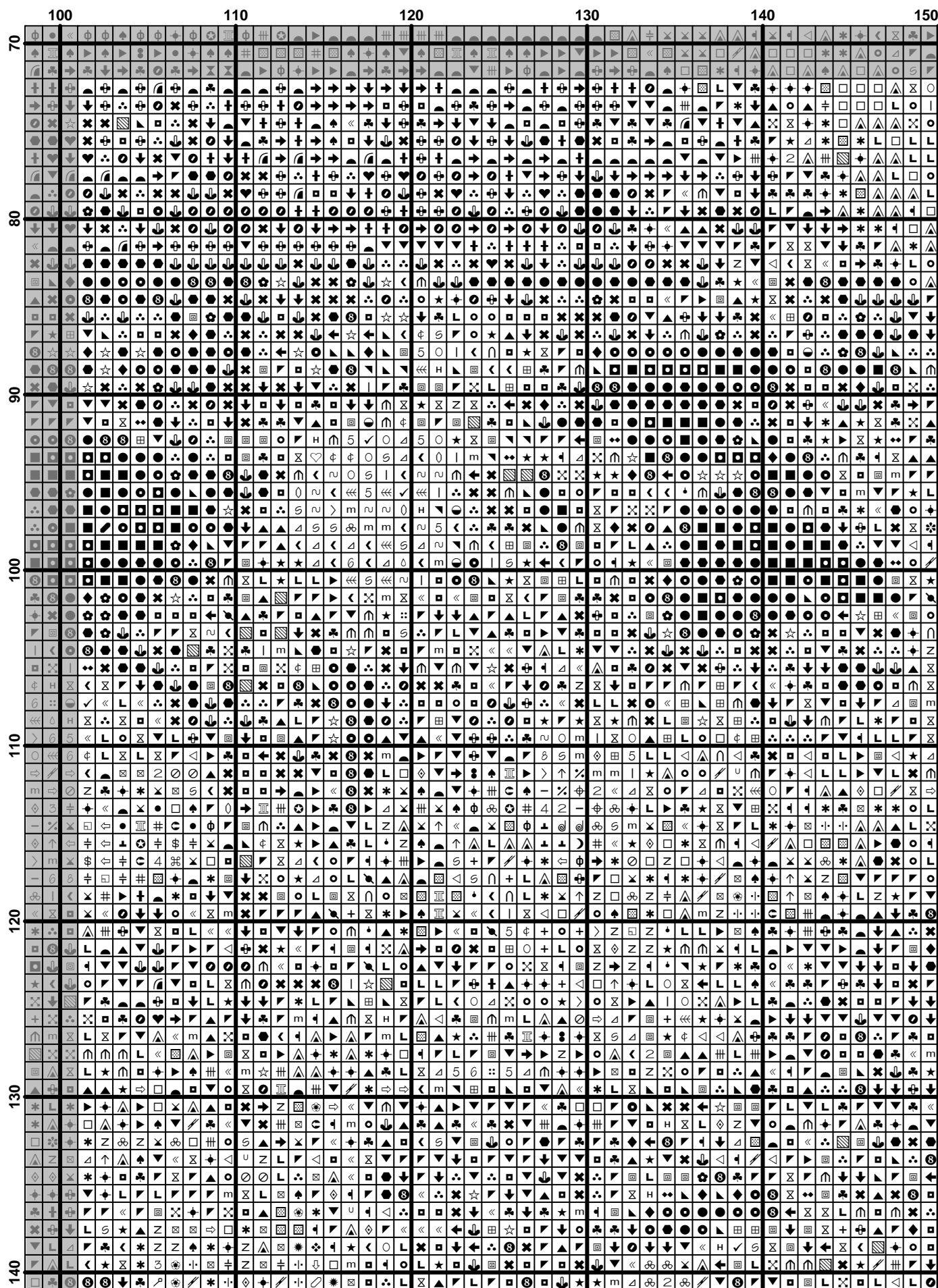


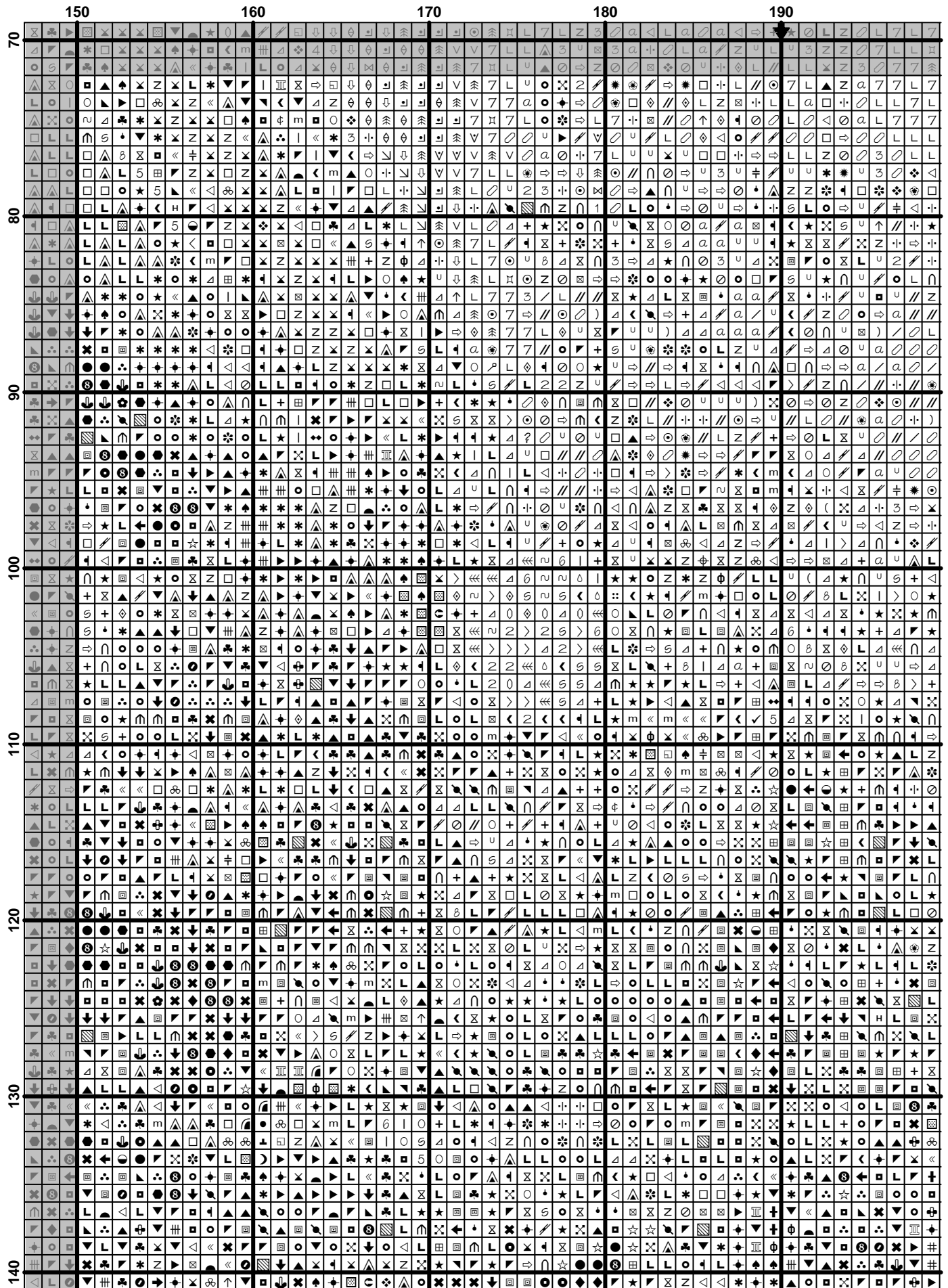








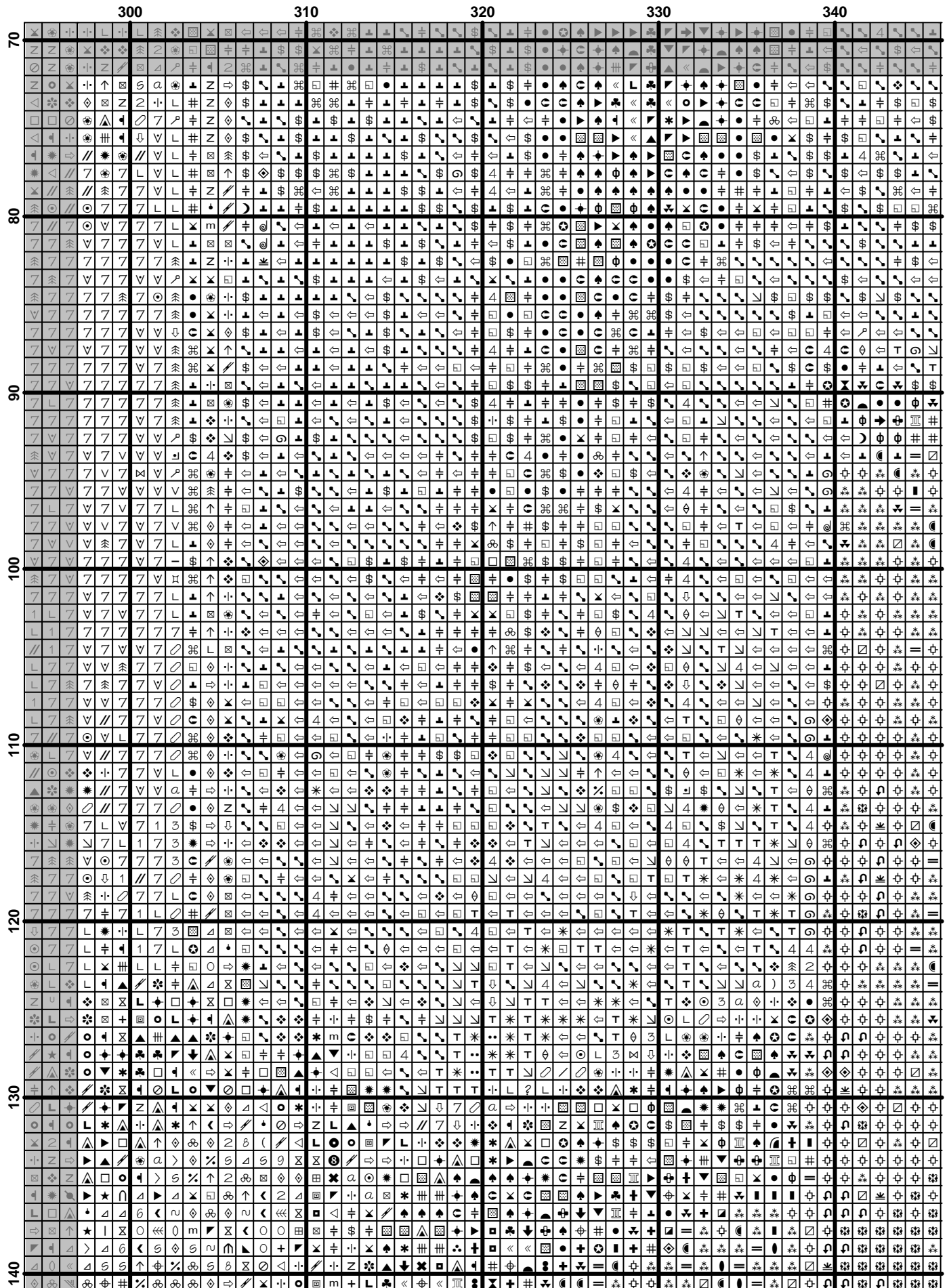


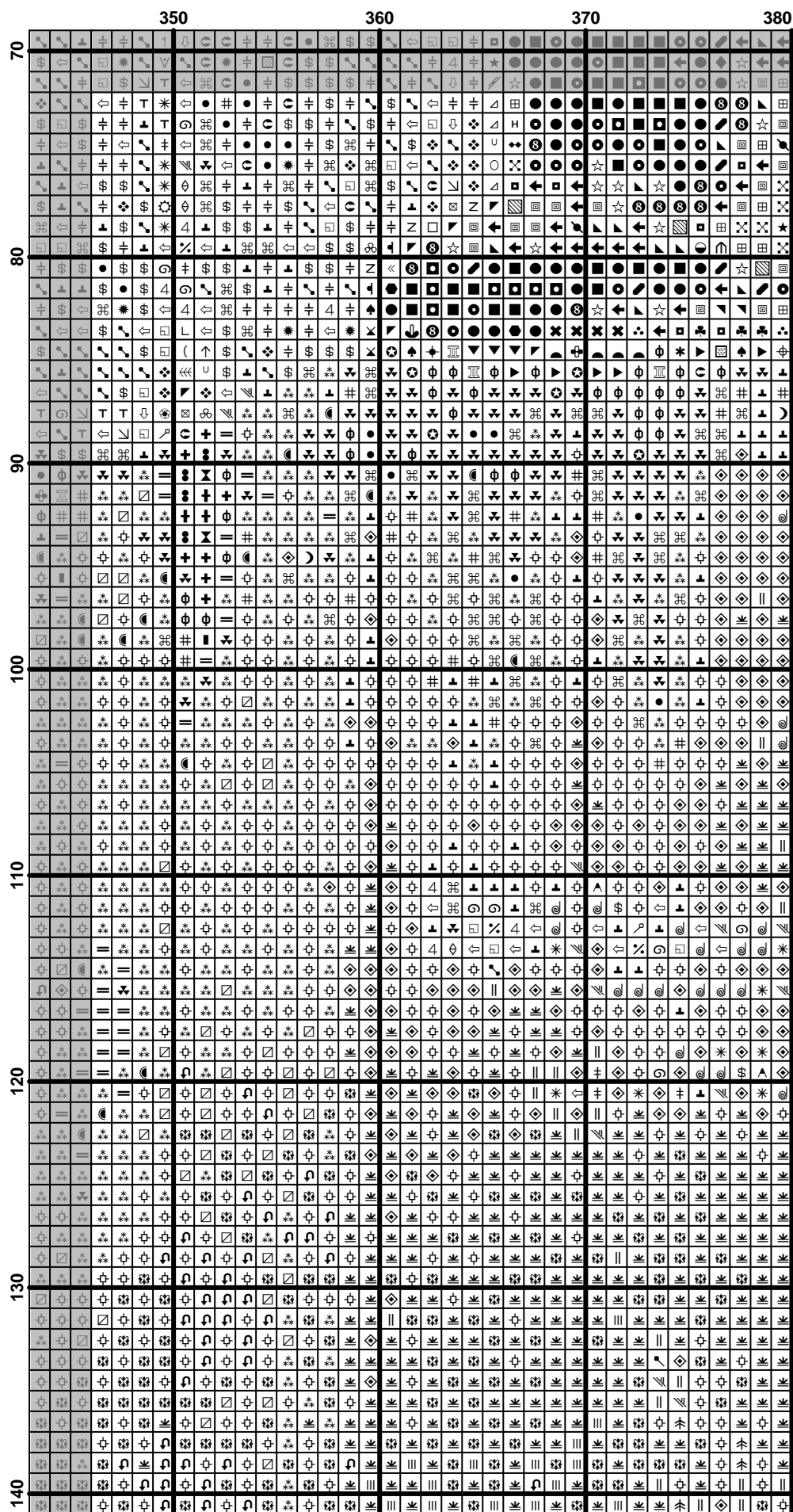




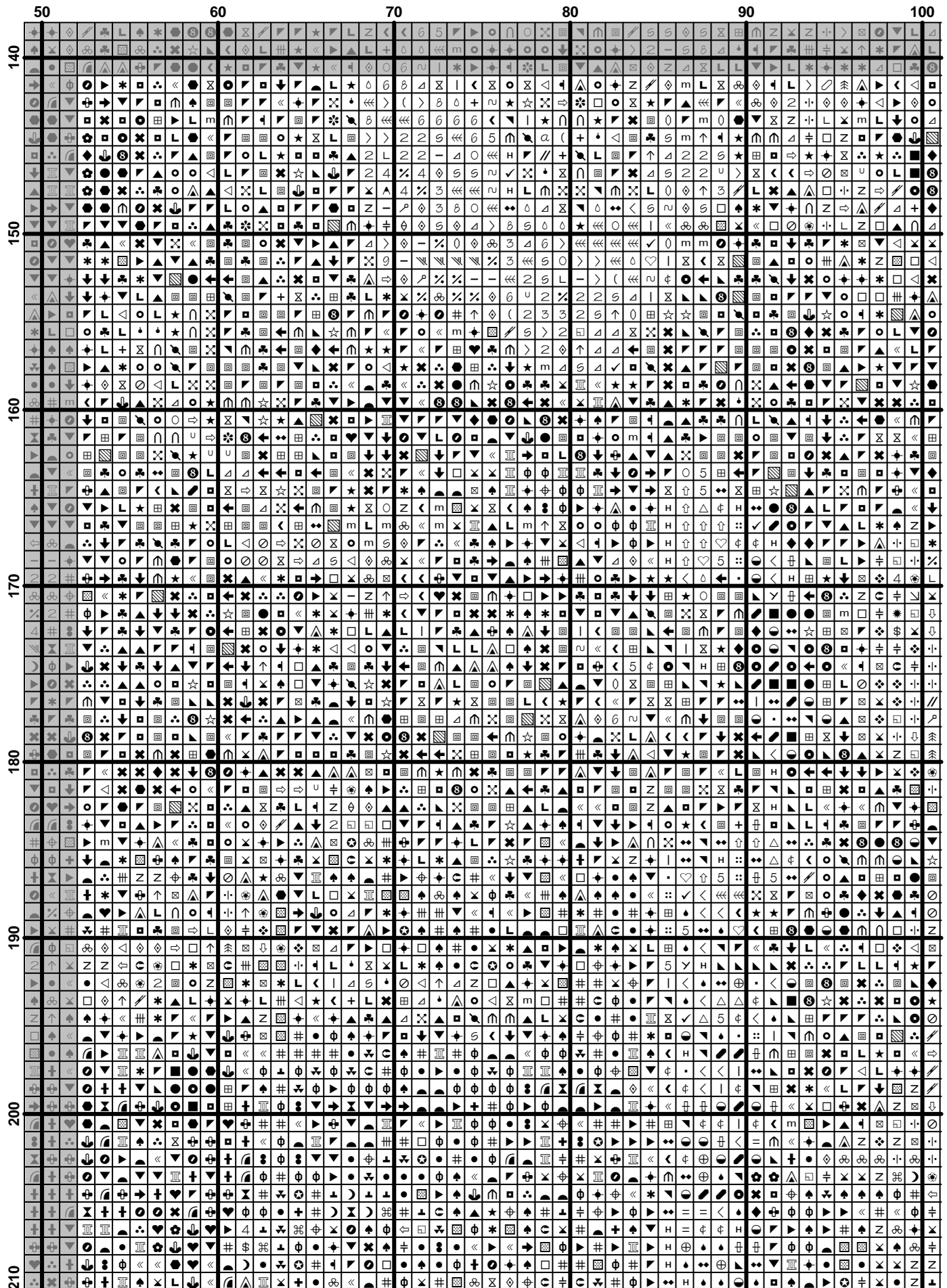
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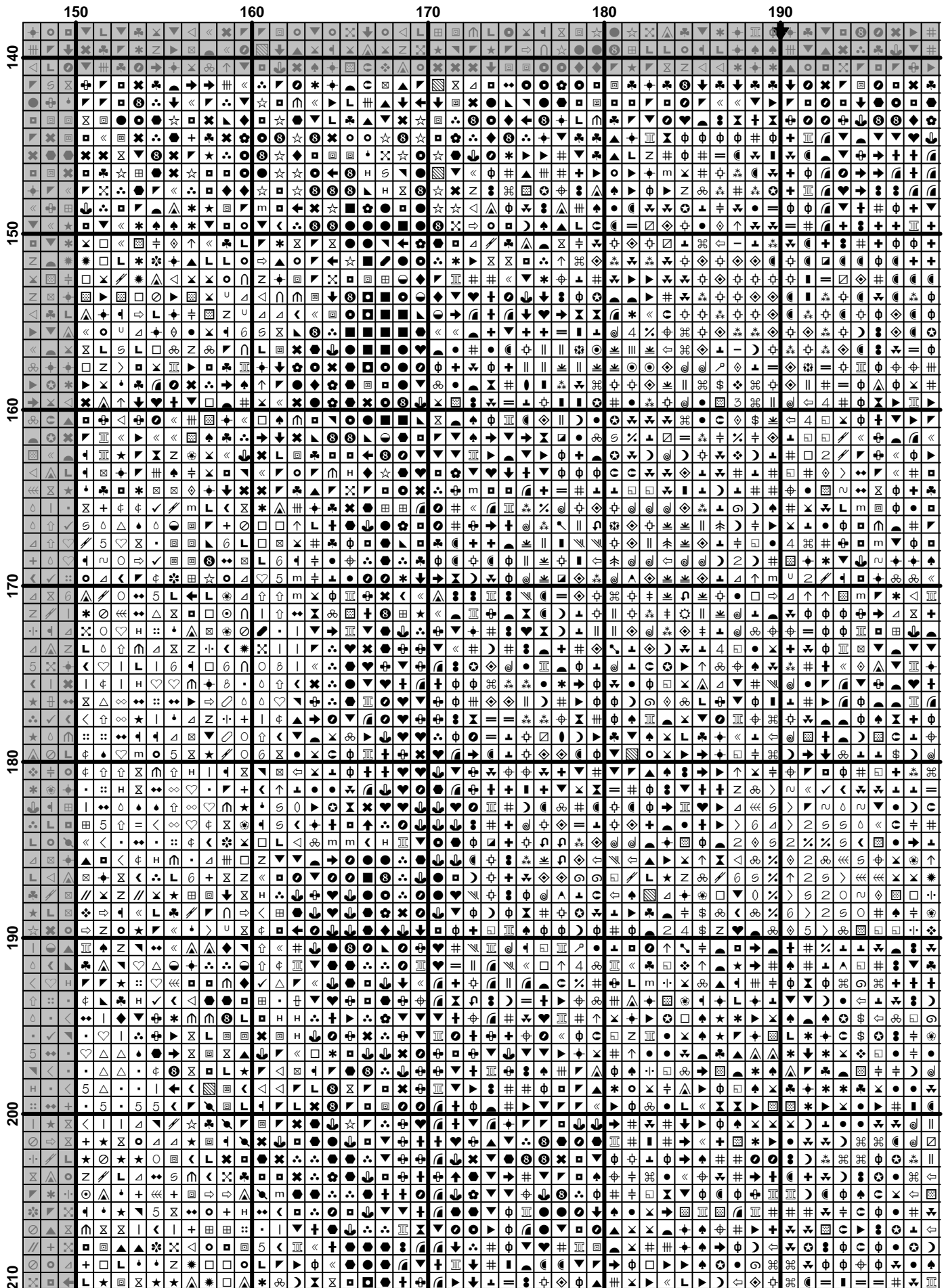


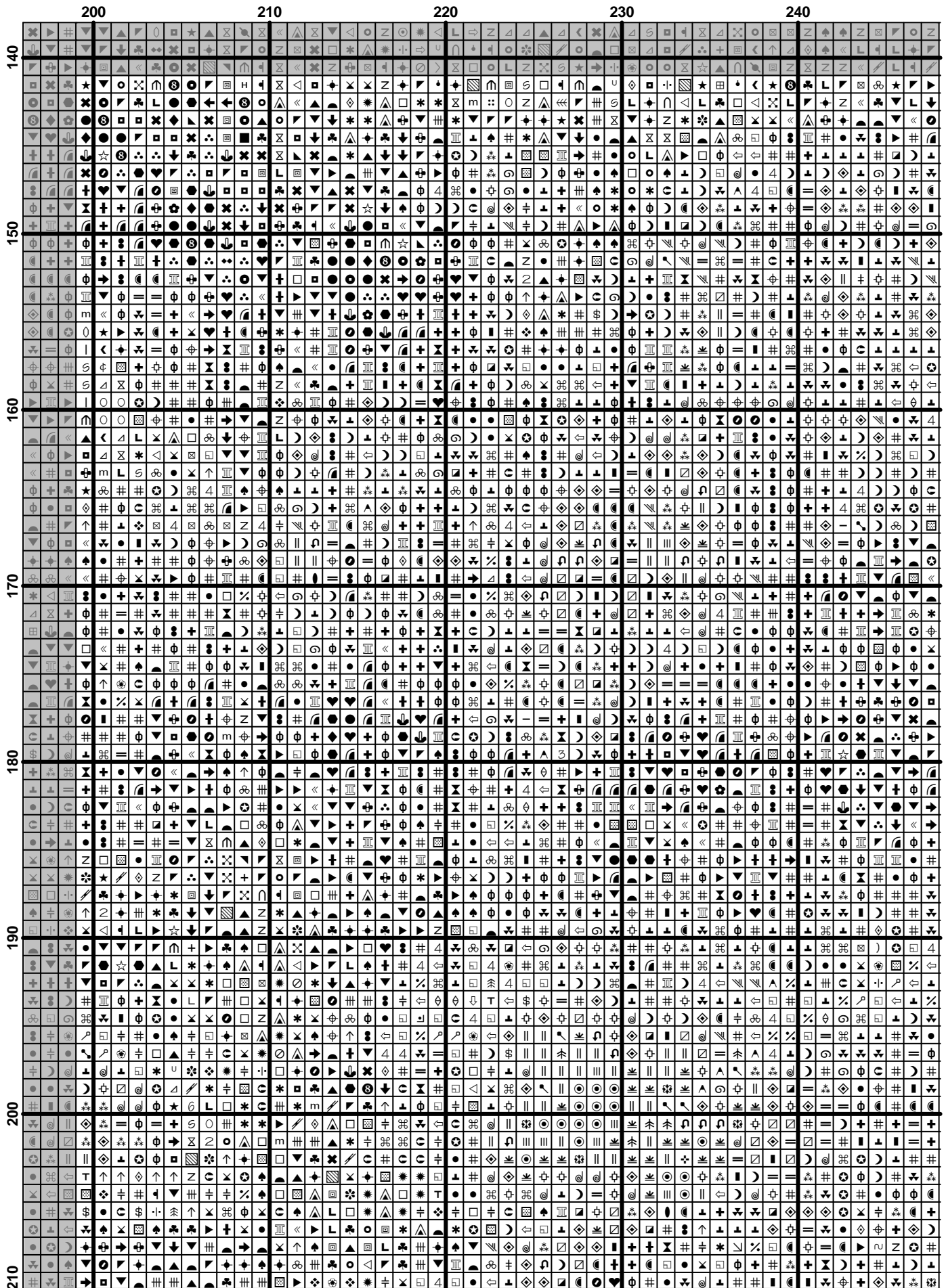


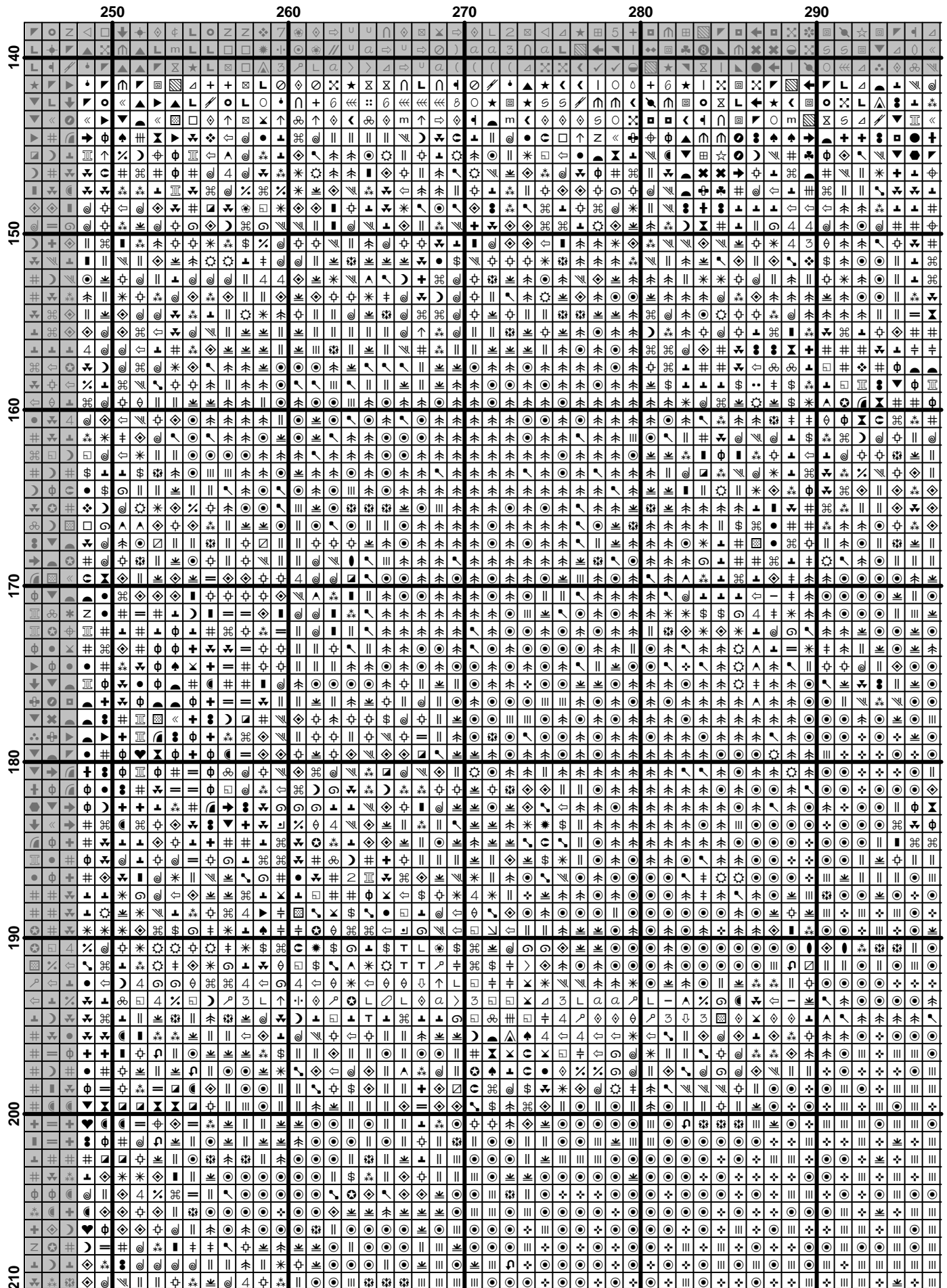


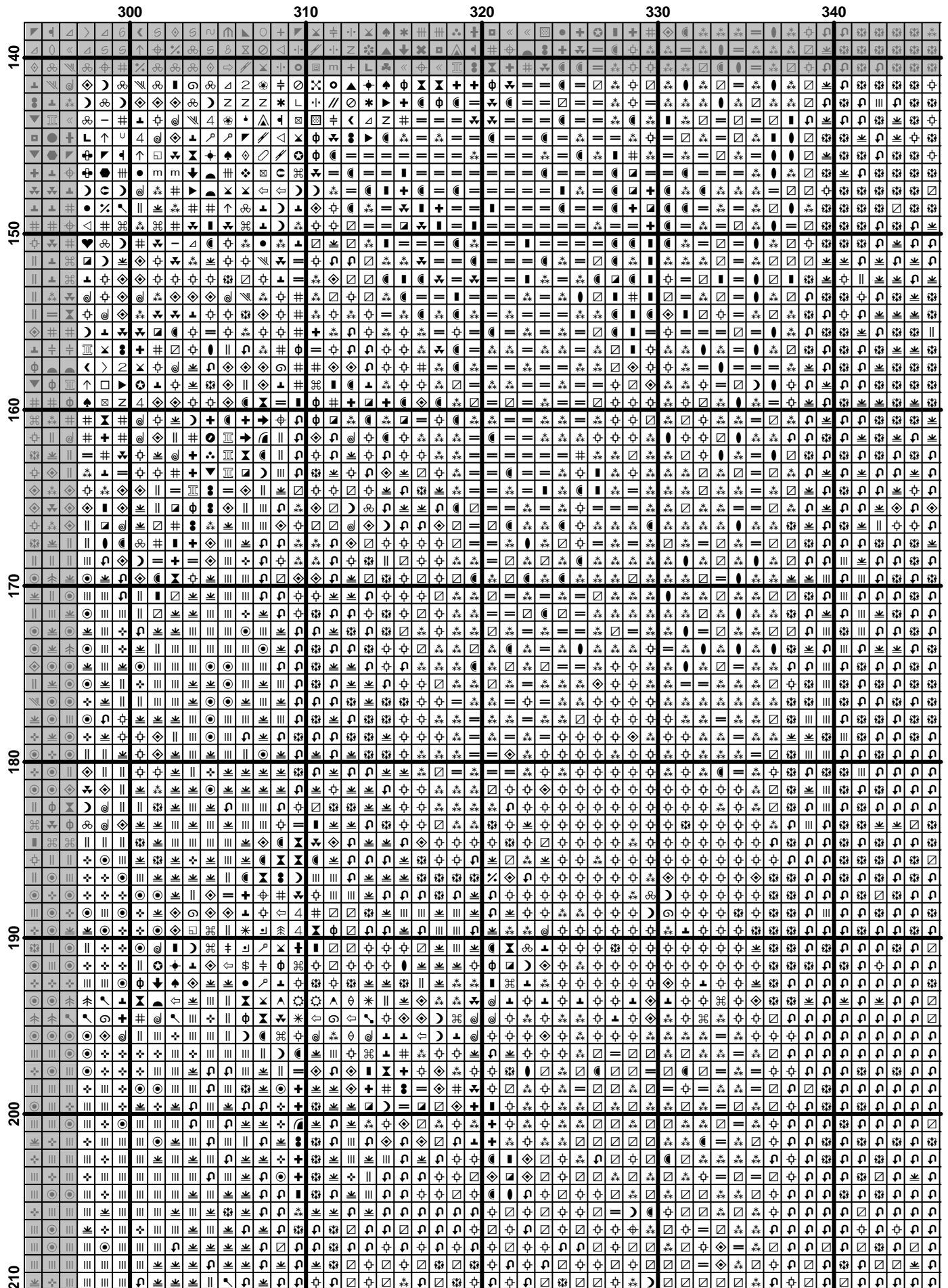


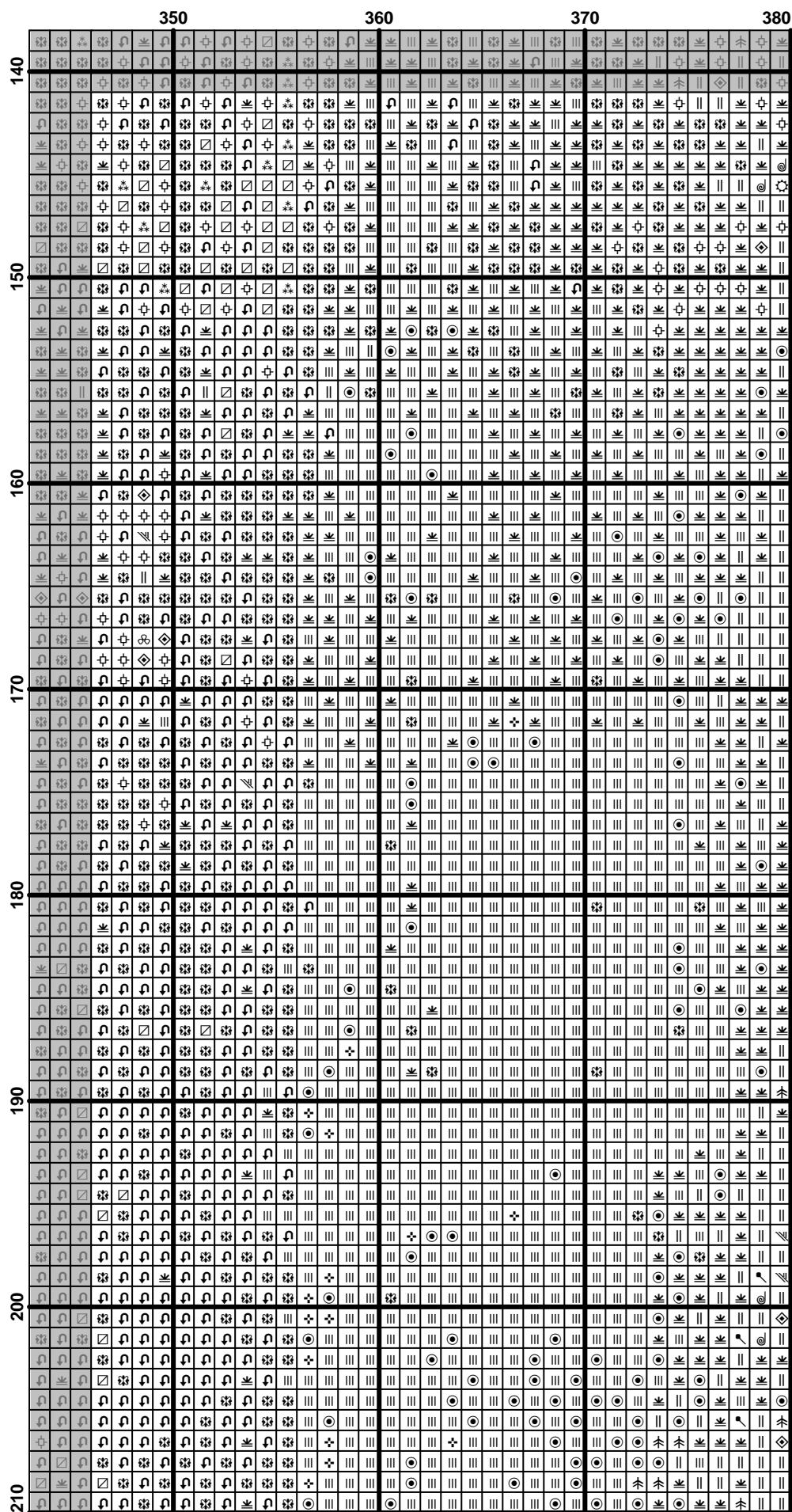
$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

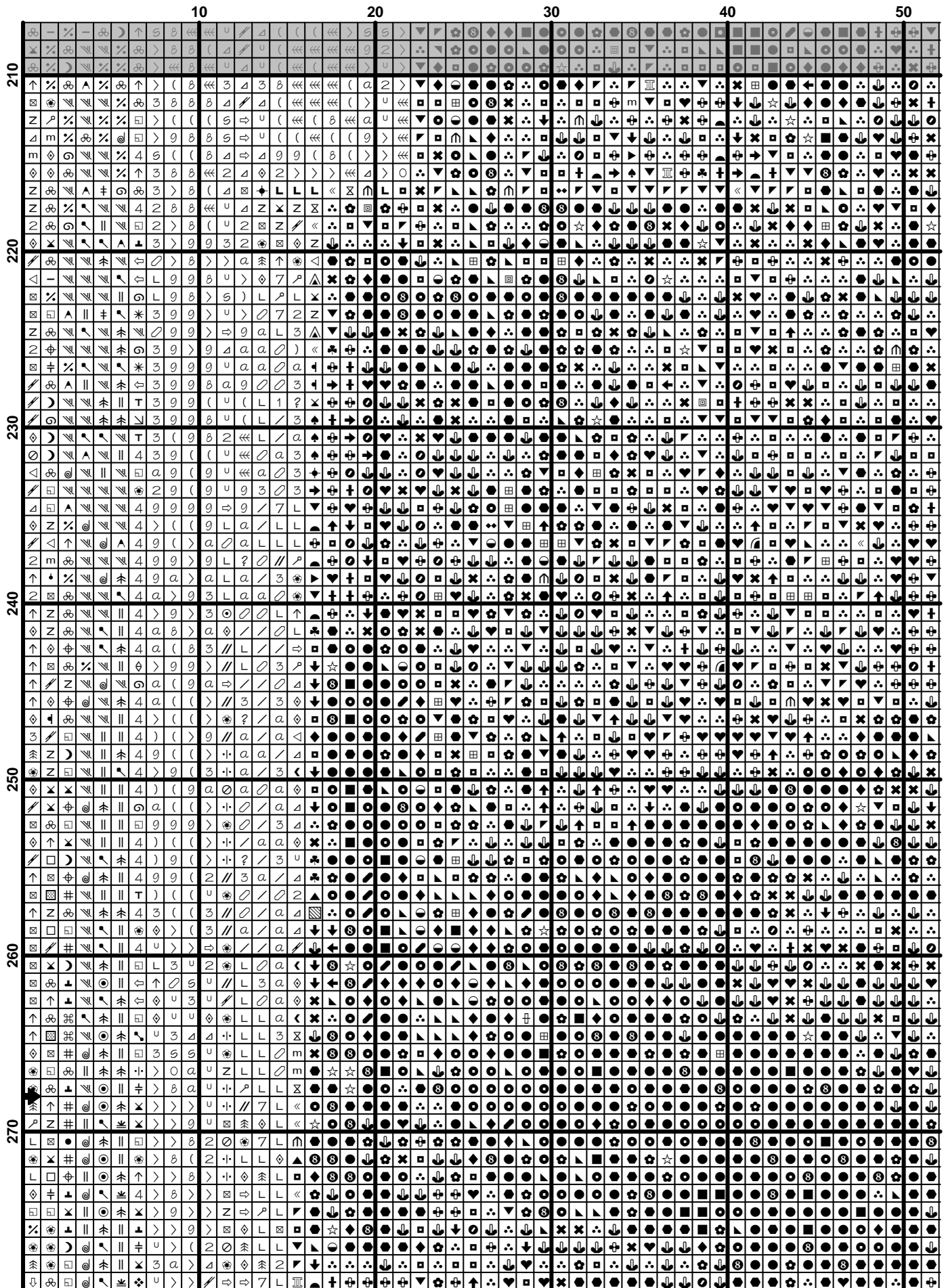








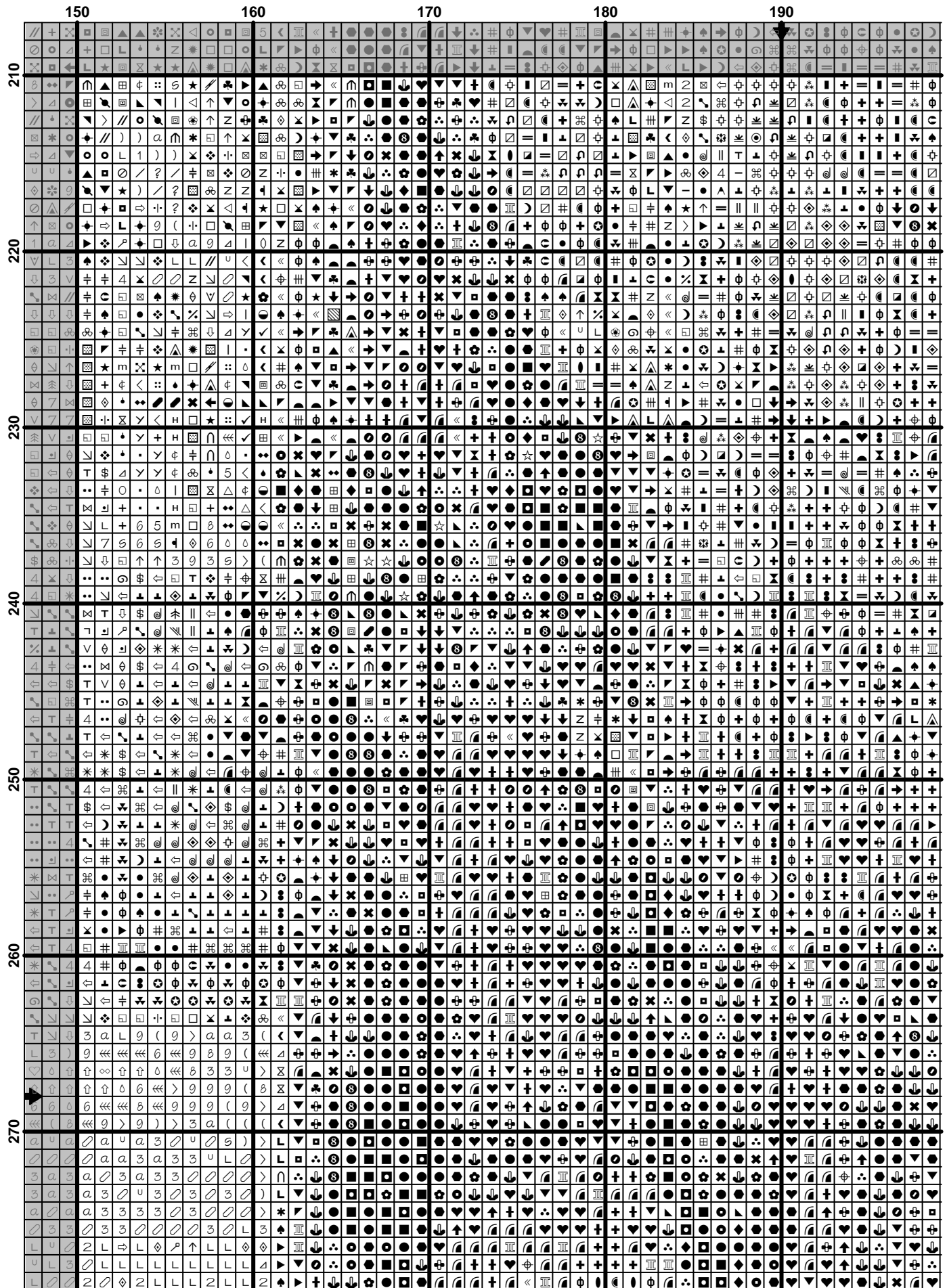


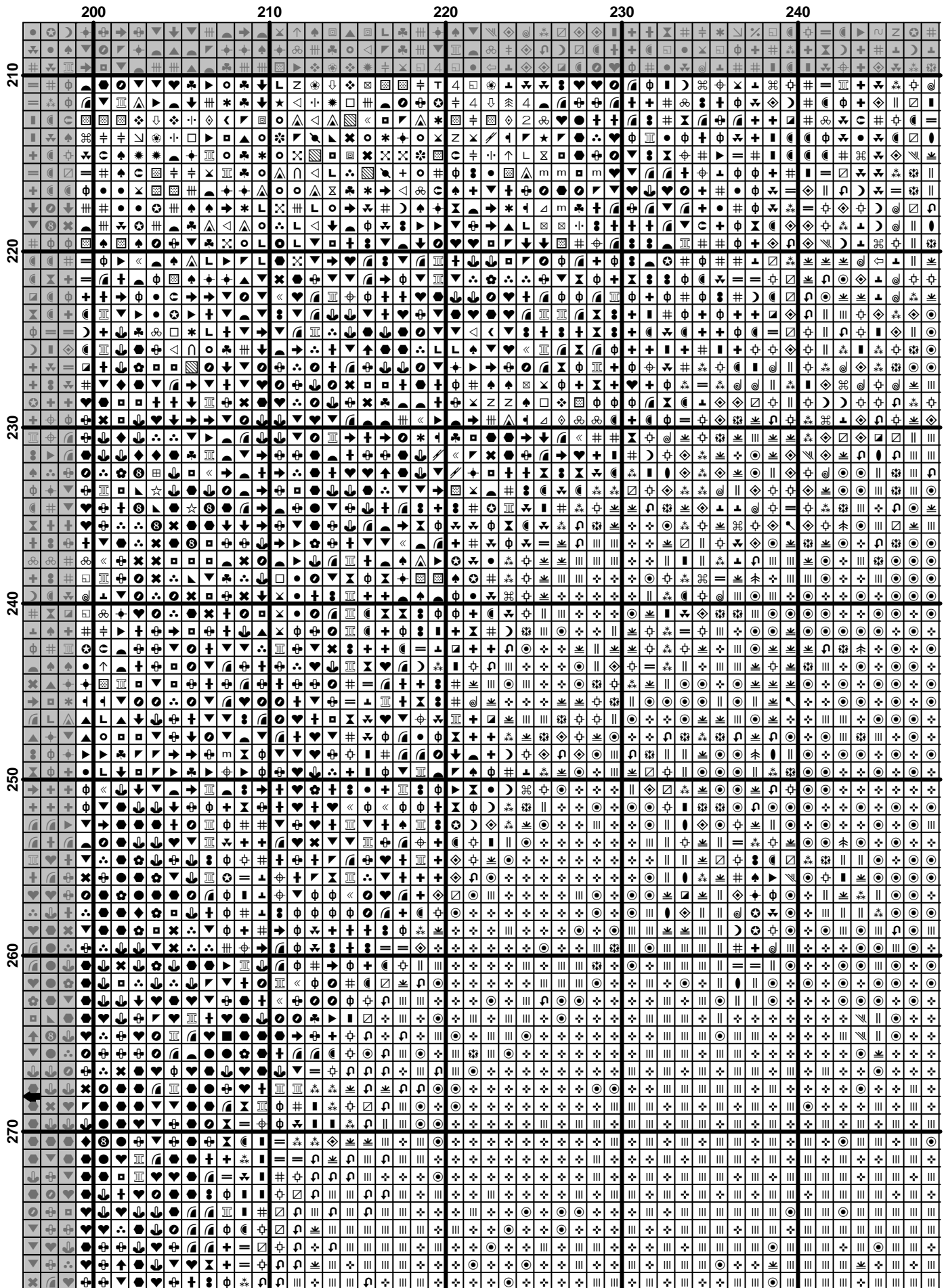


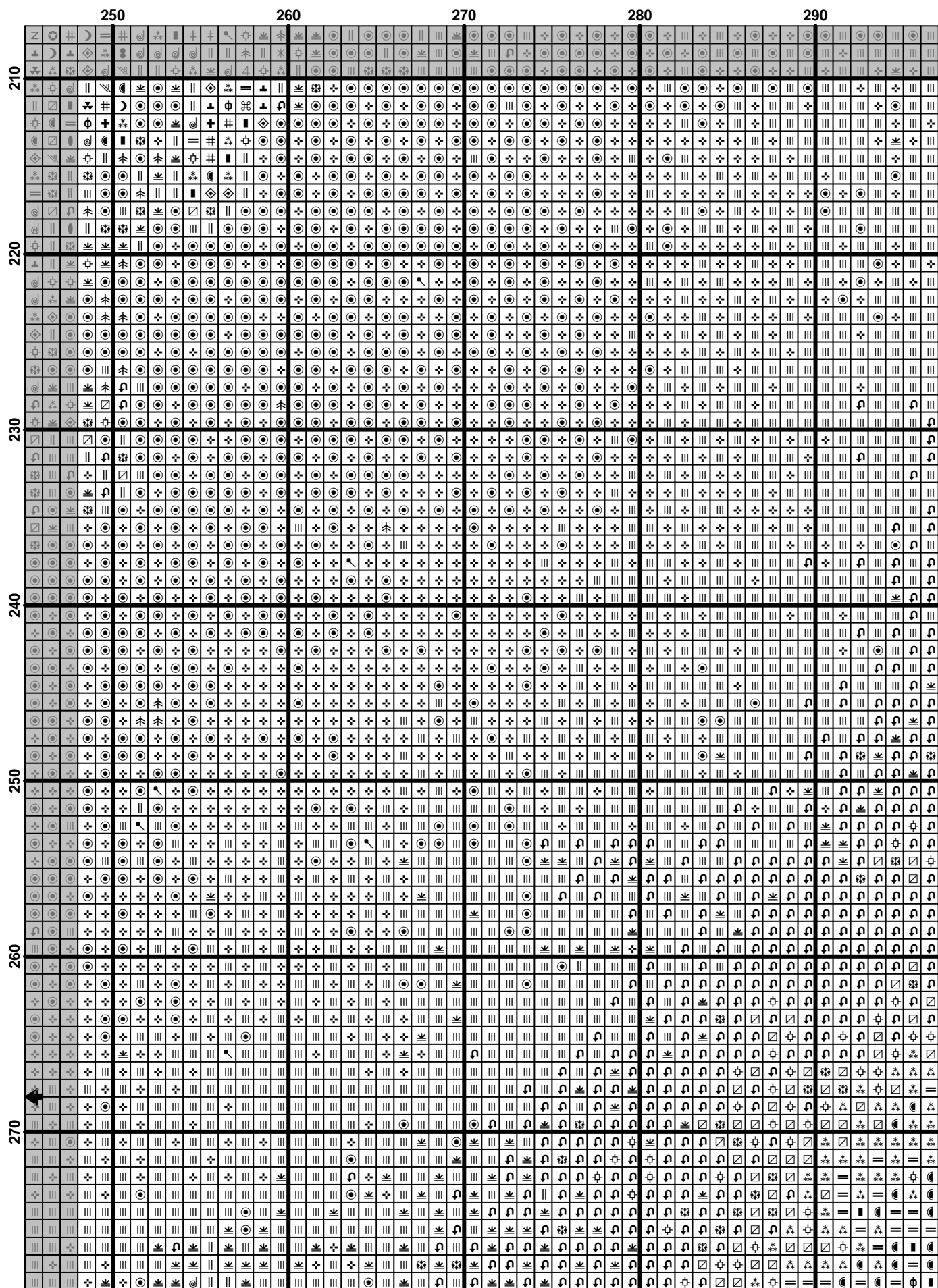
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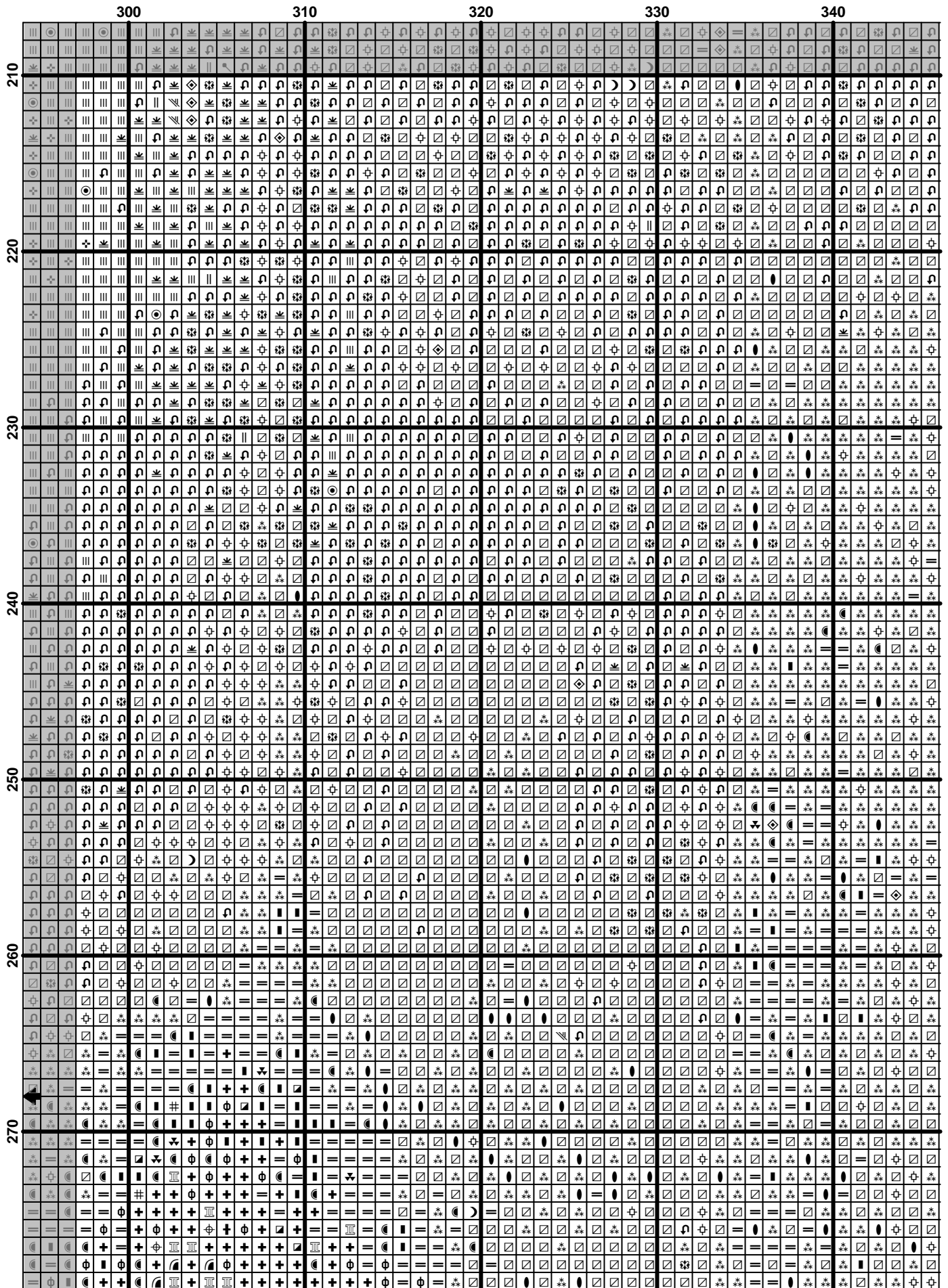


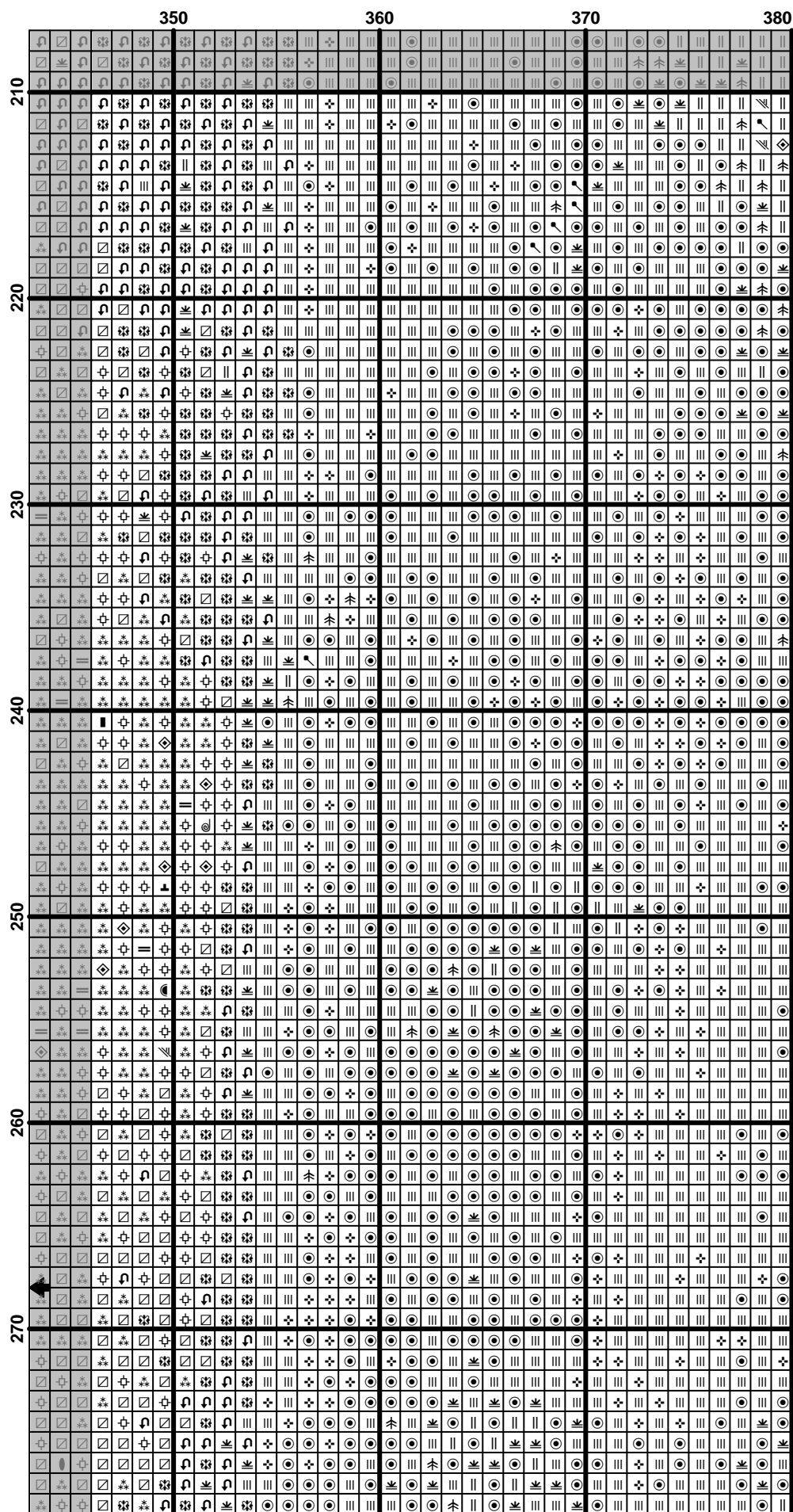
$$(35) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

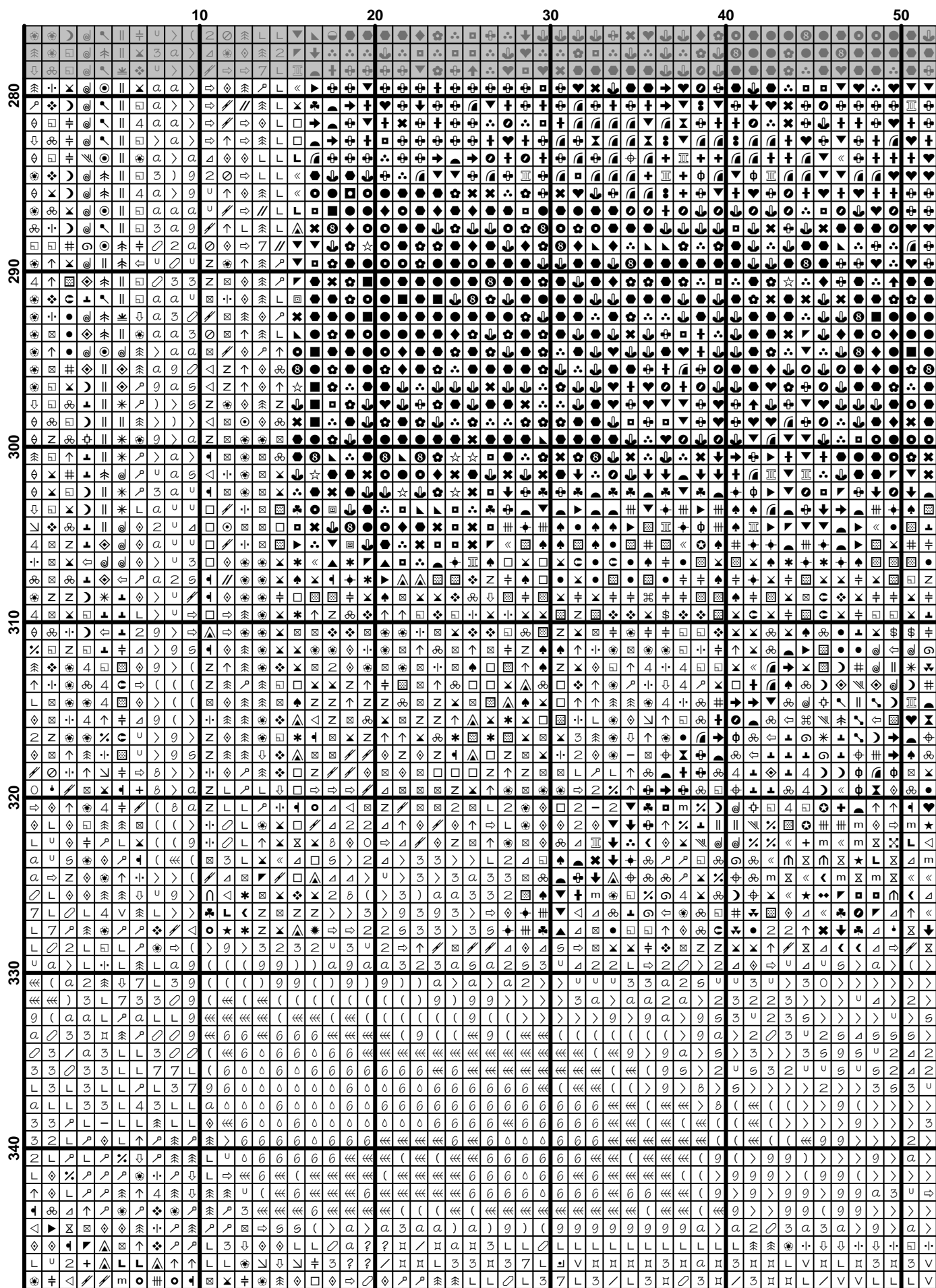


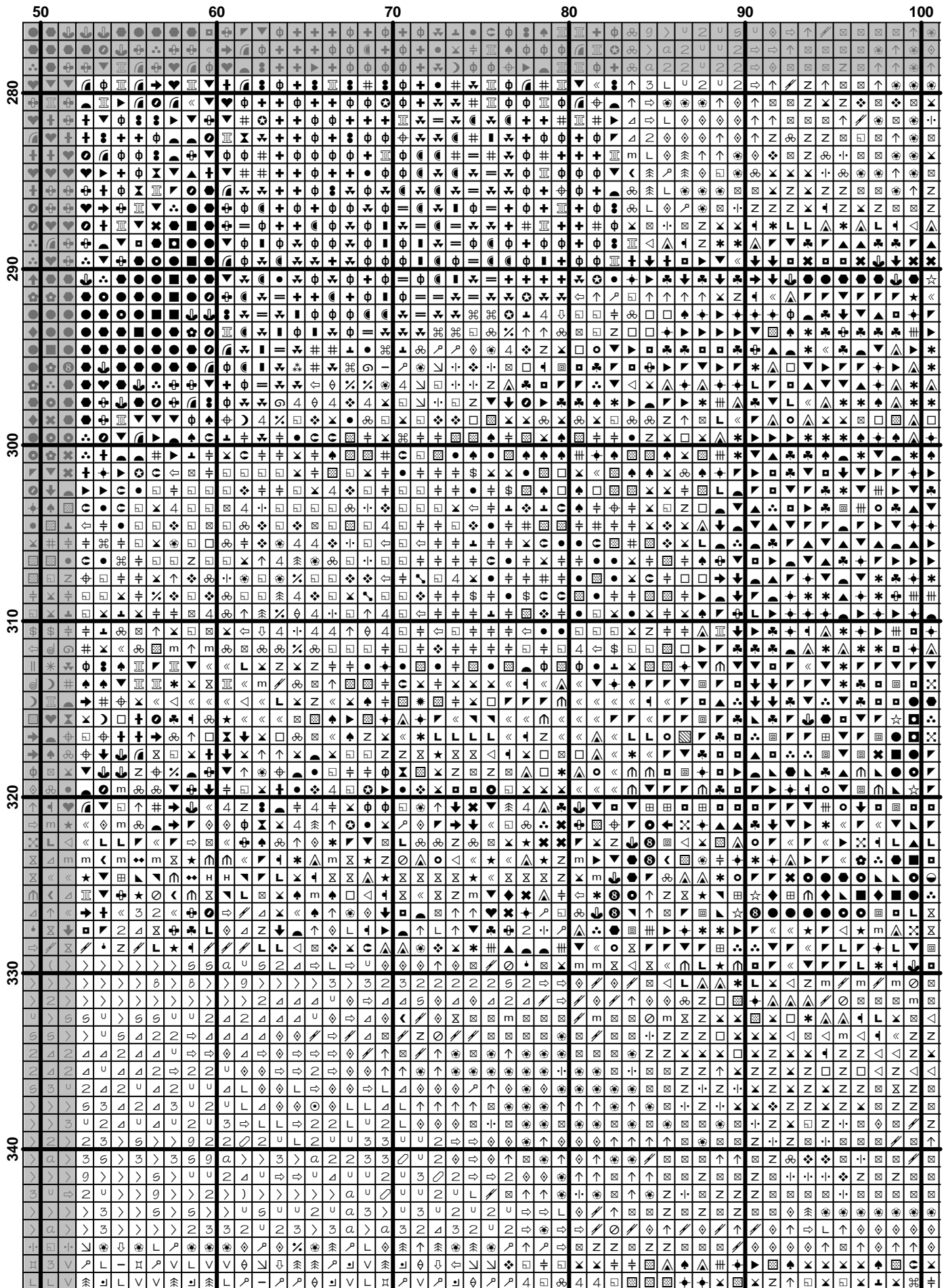




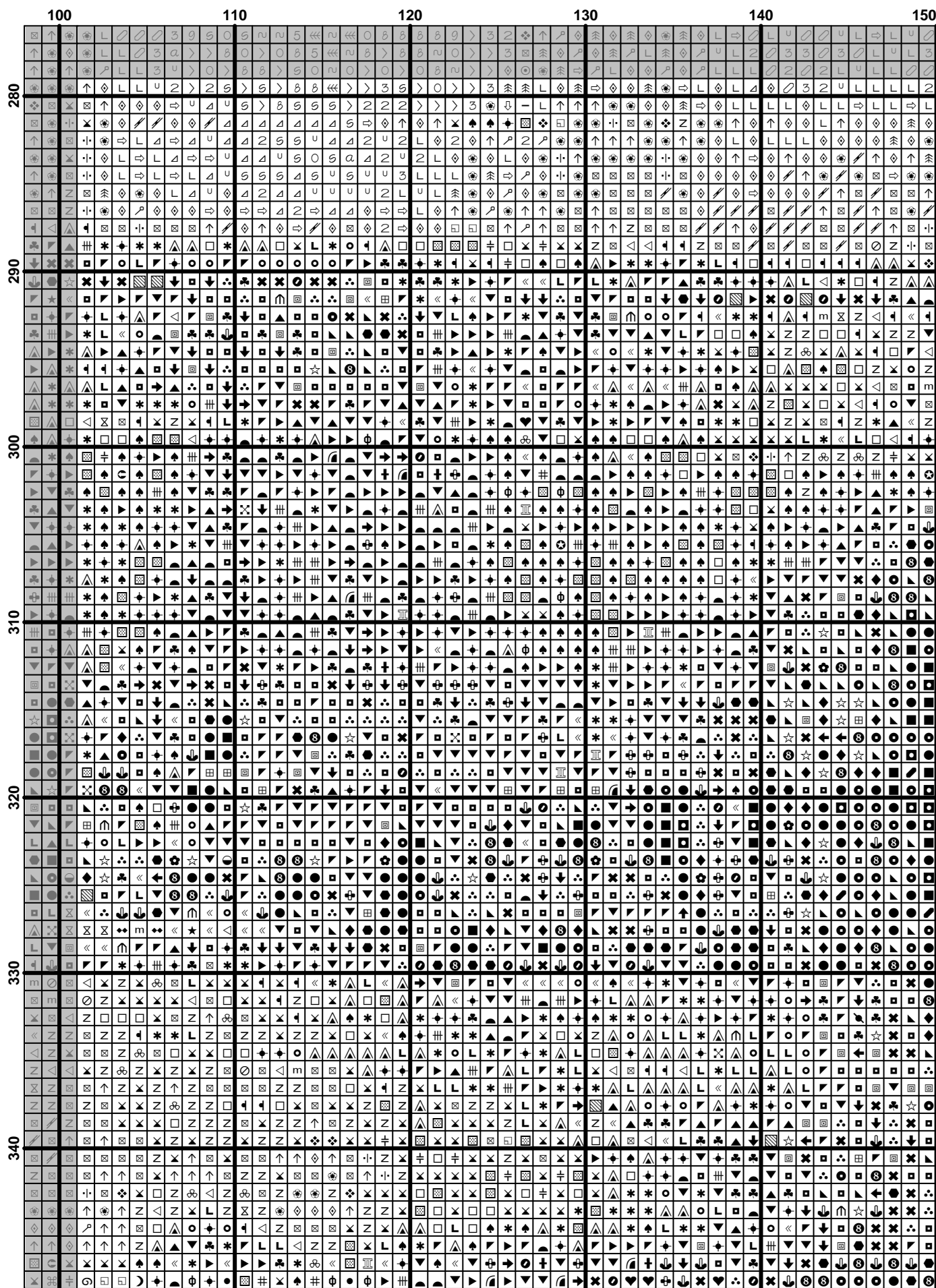


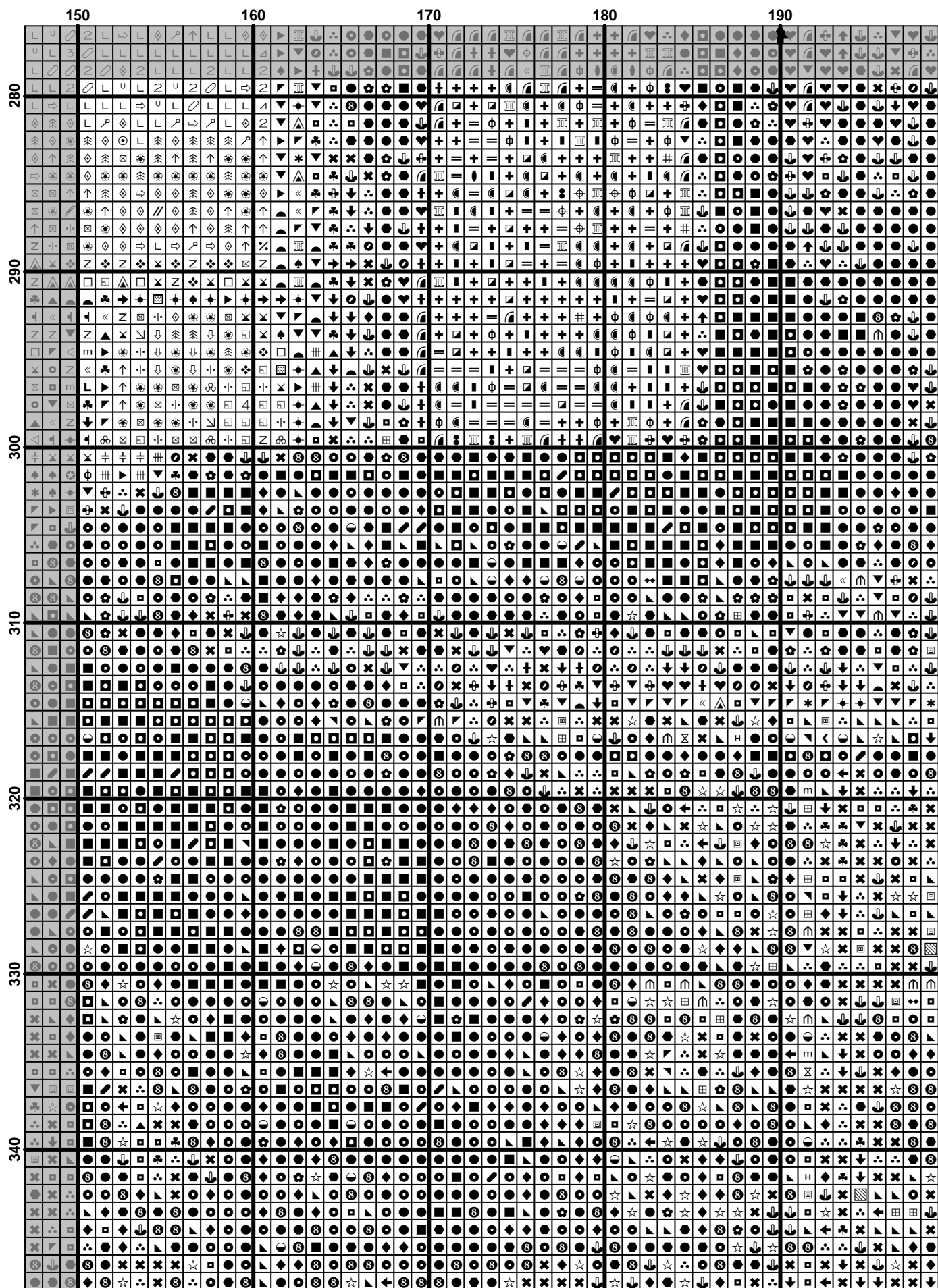


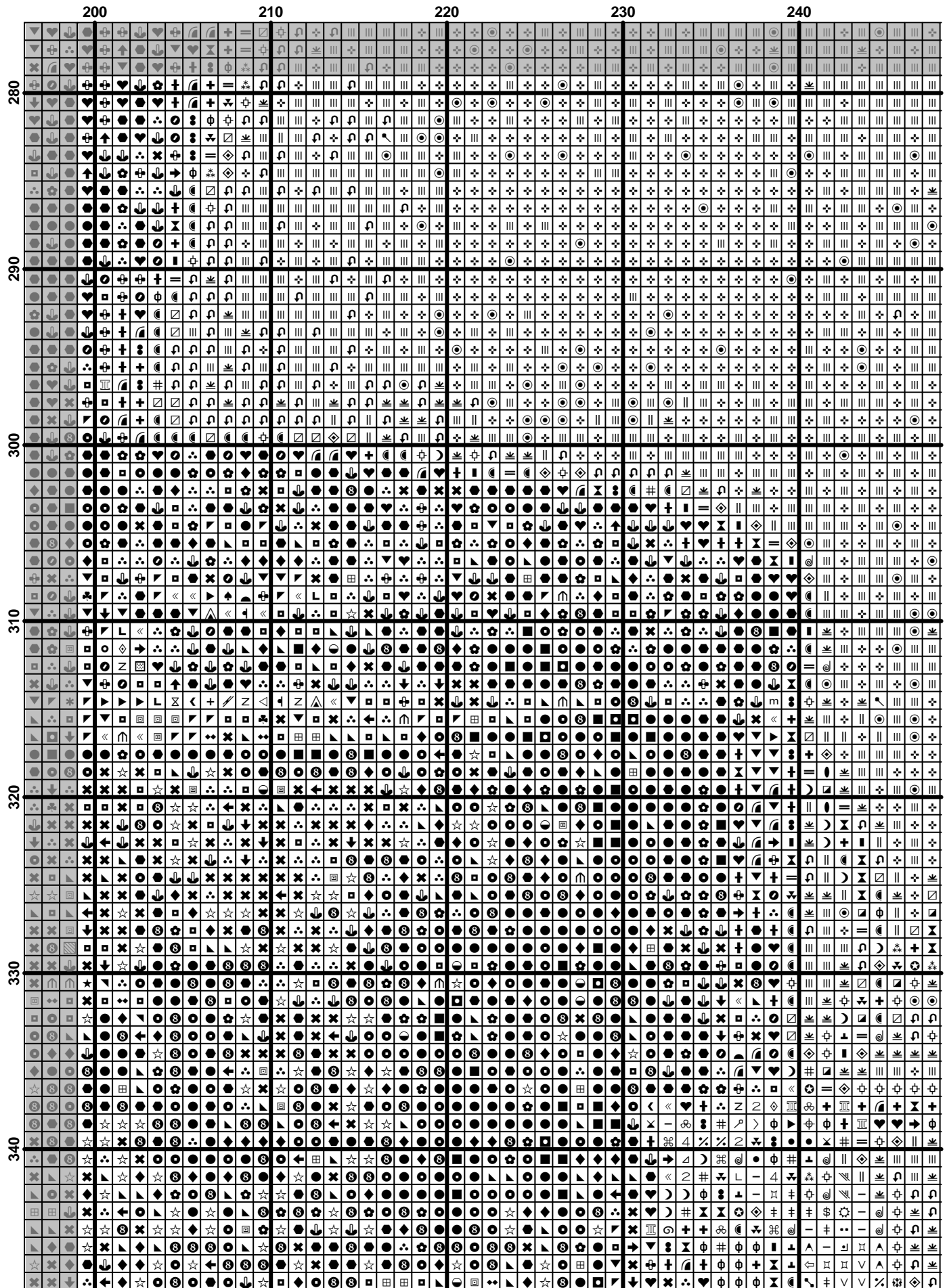


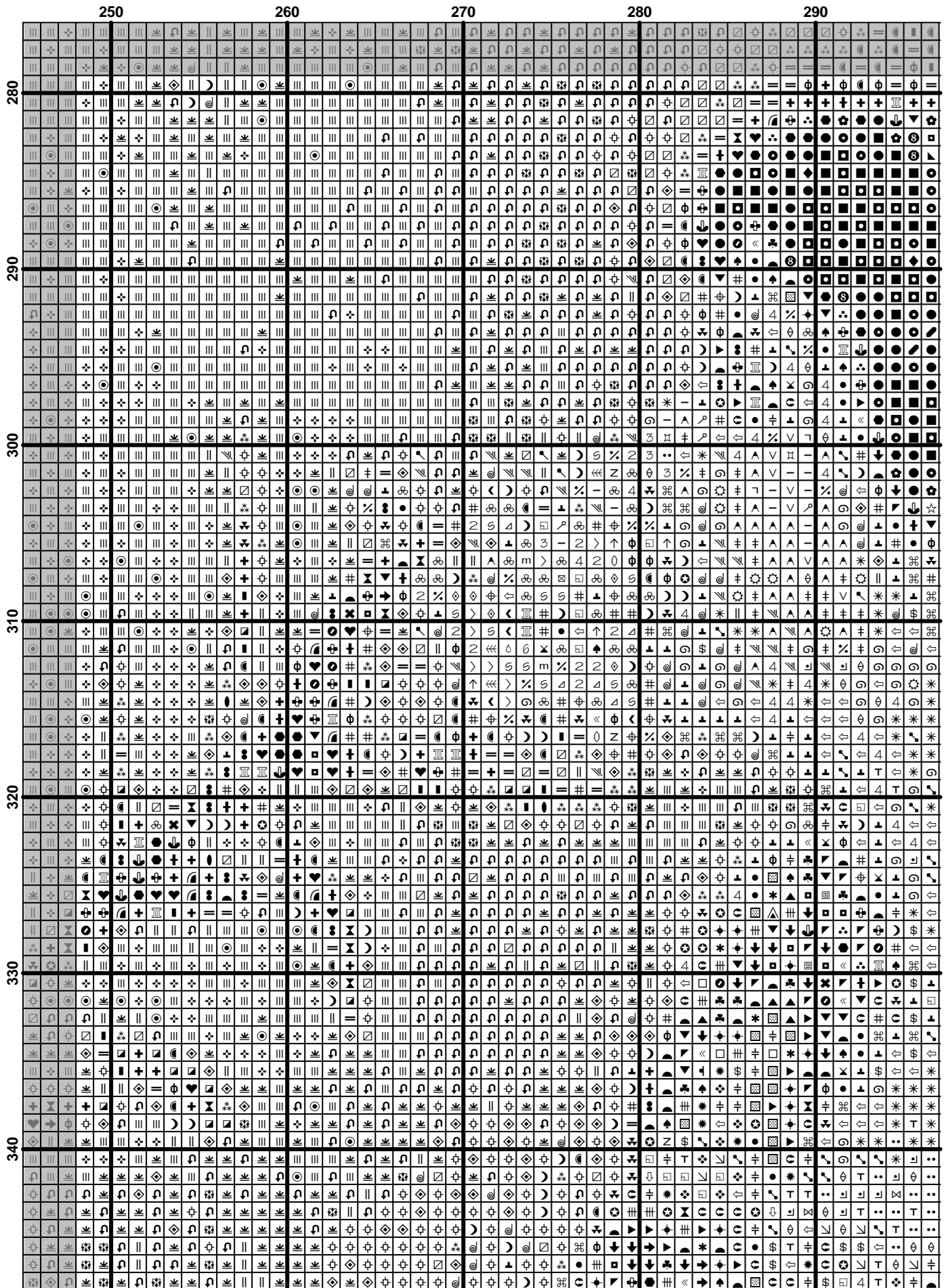


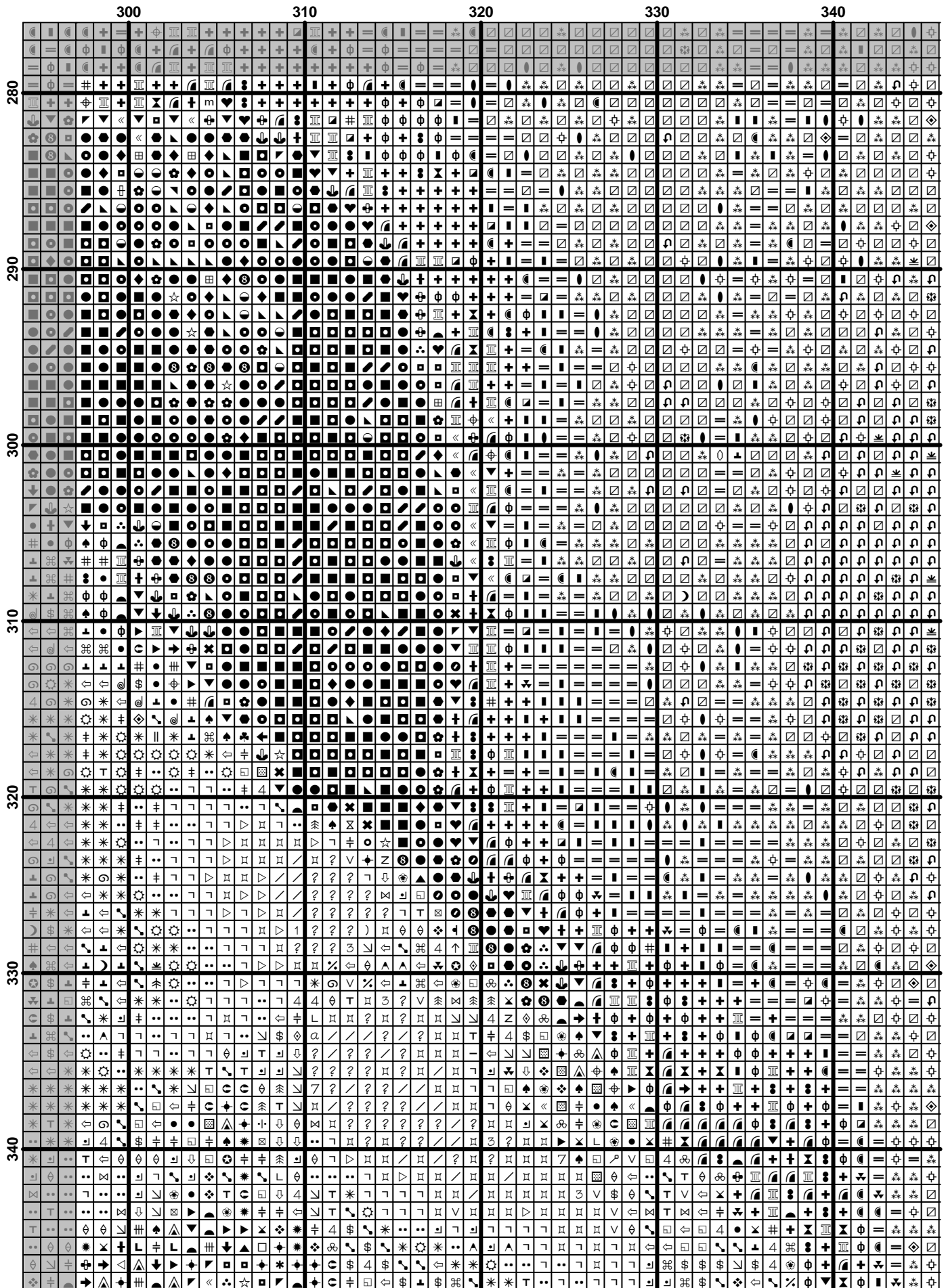


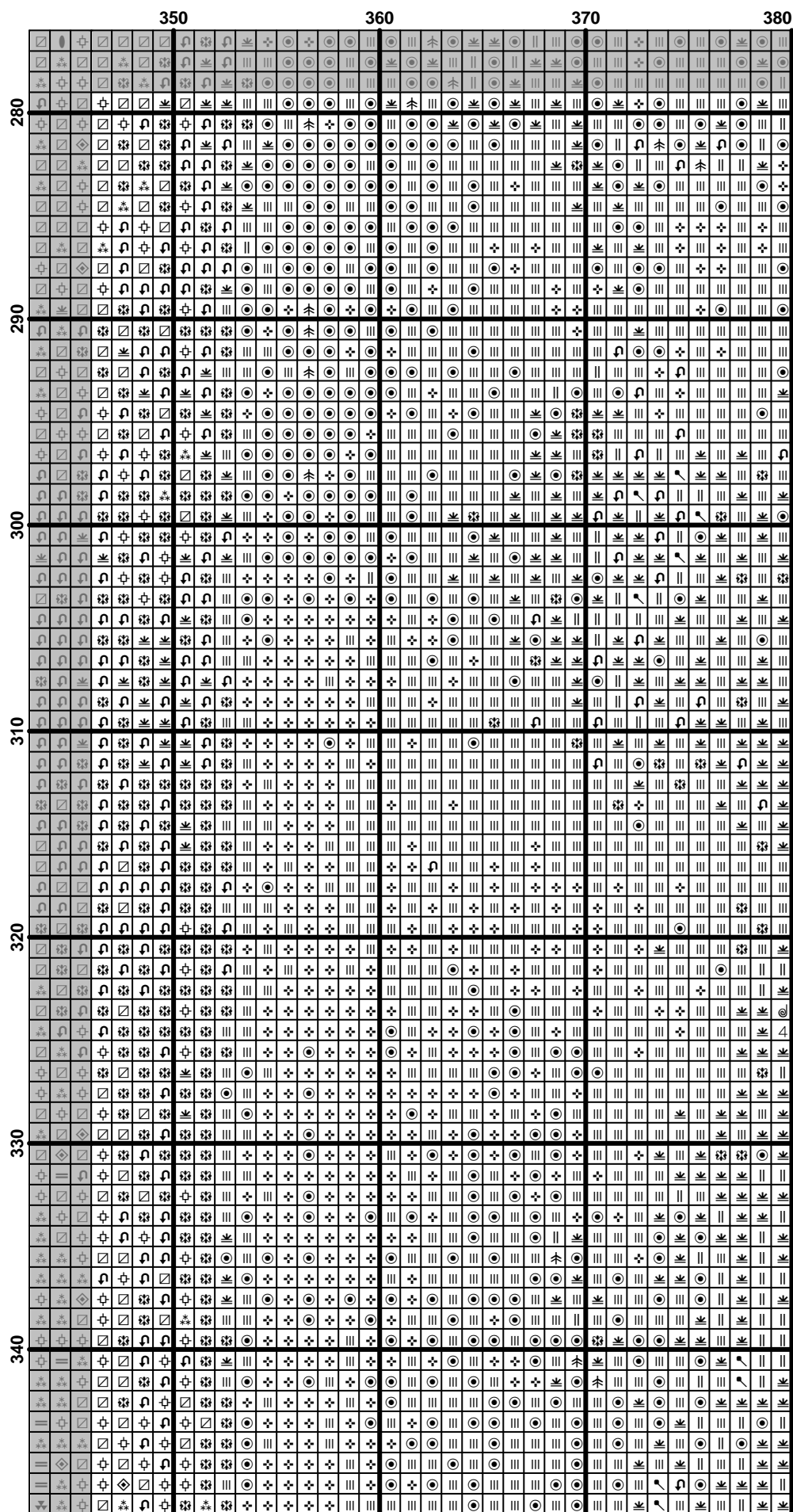










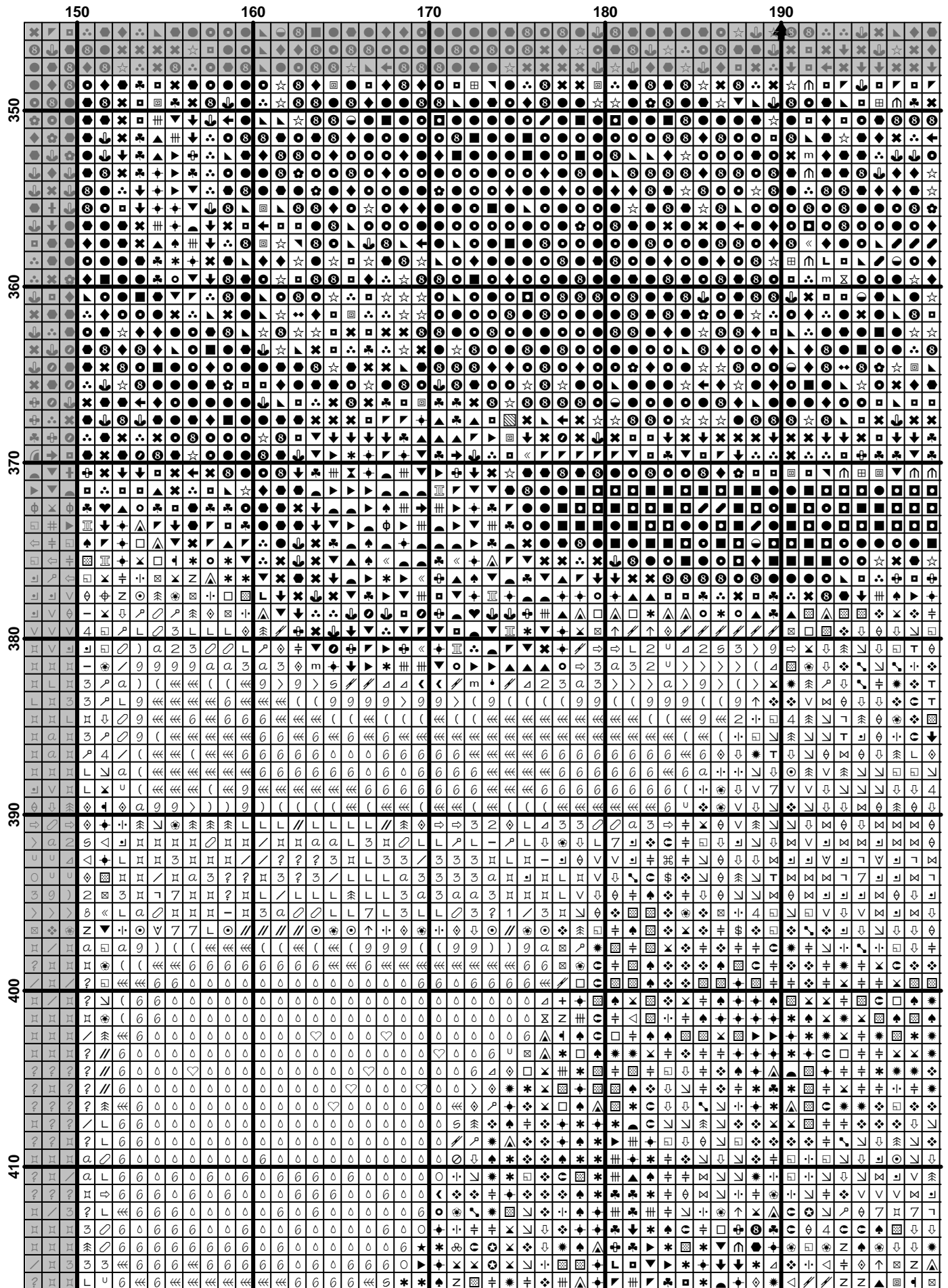


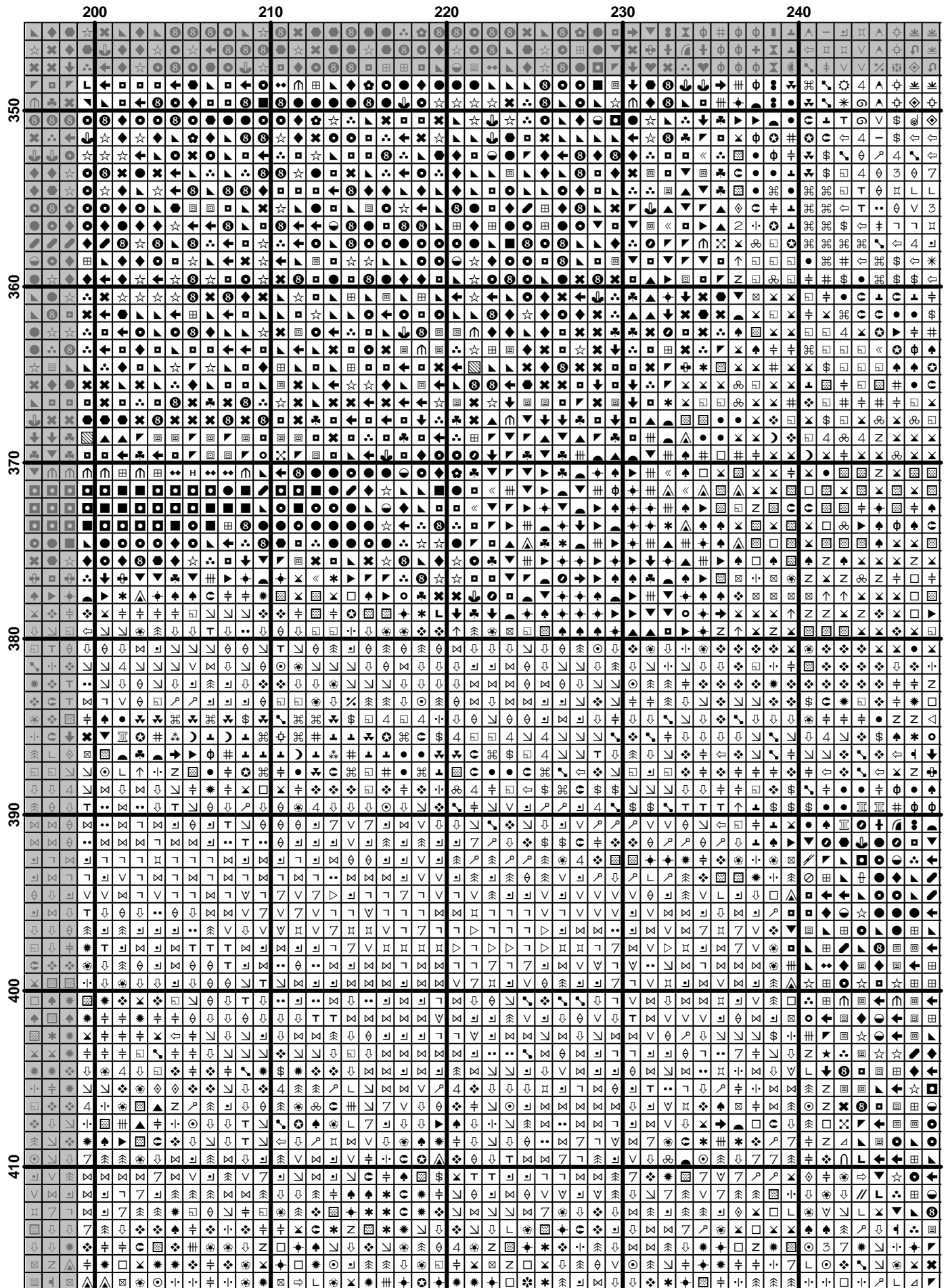
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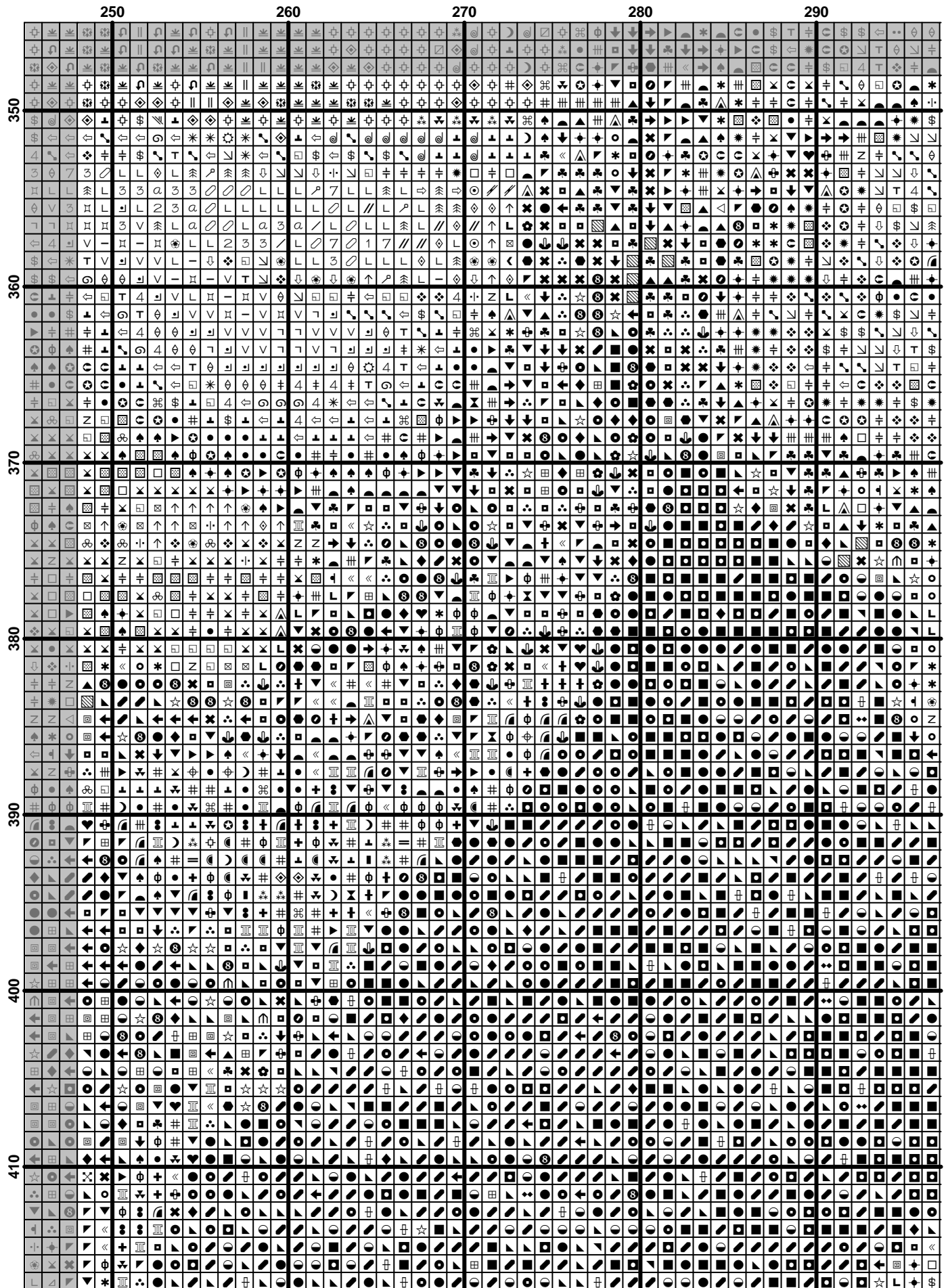
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370	...	...	...	...	...	...
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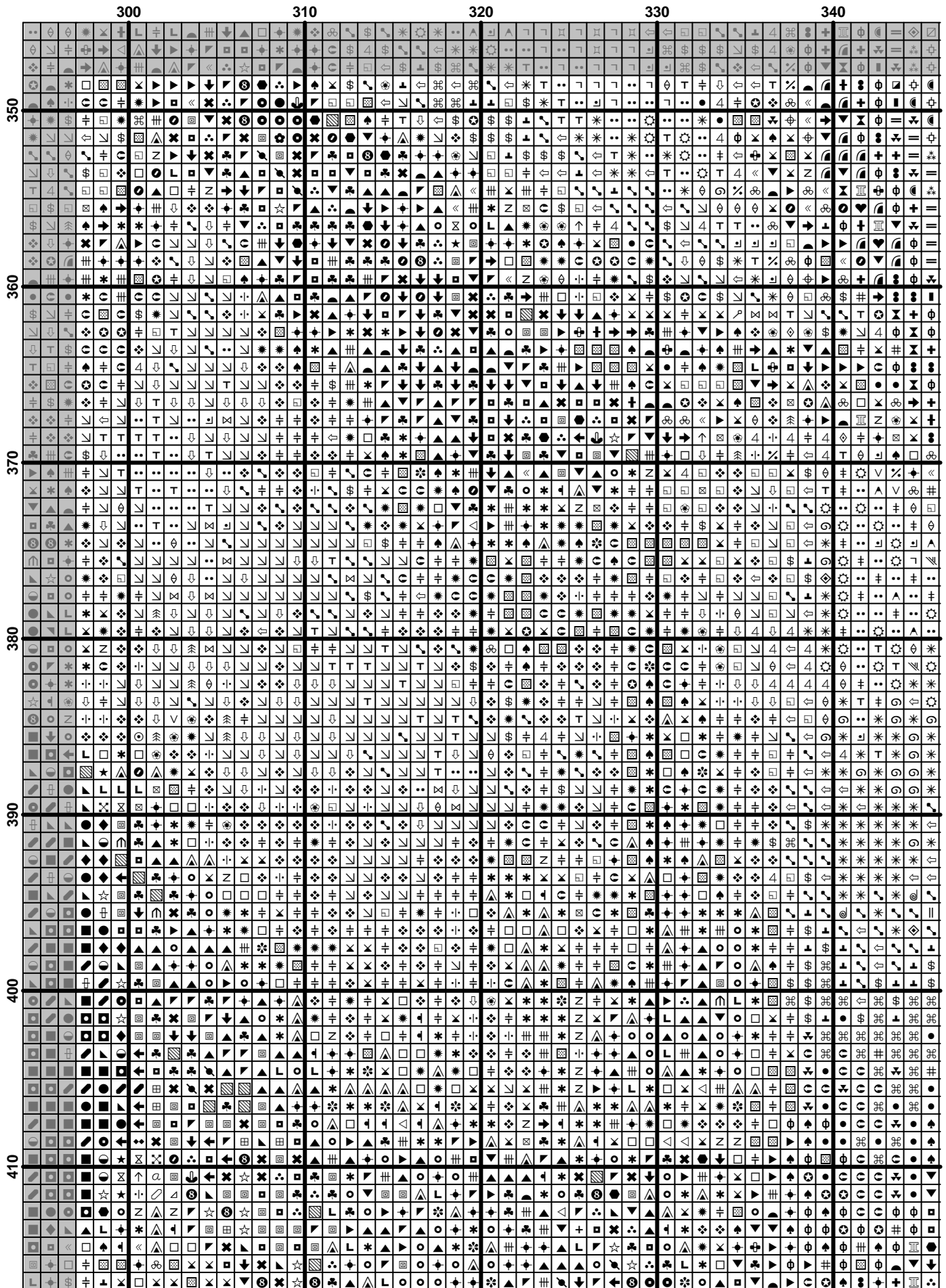


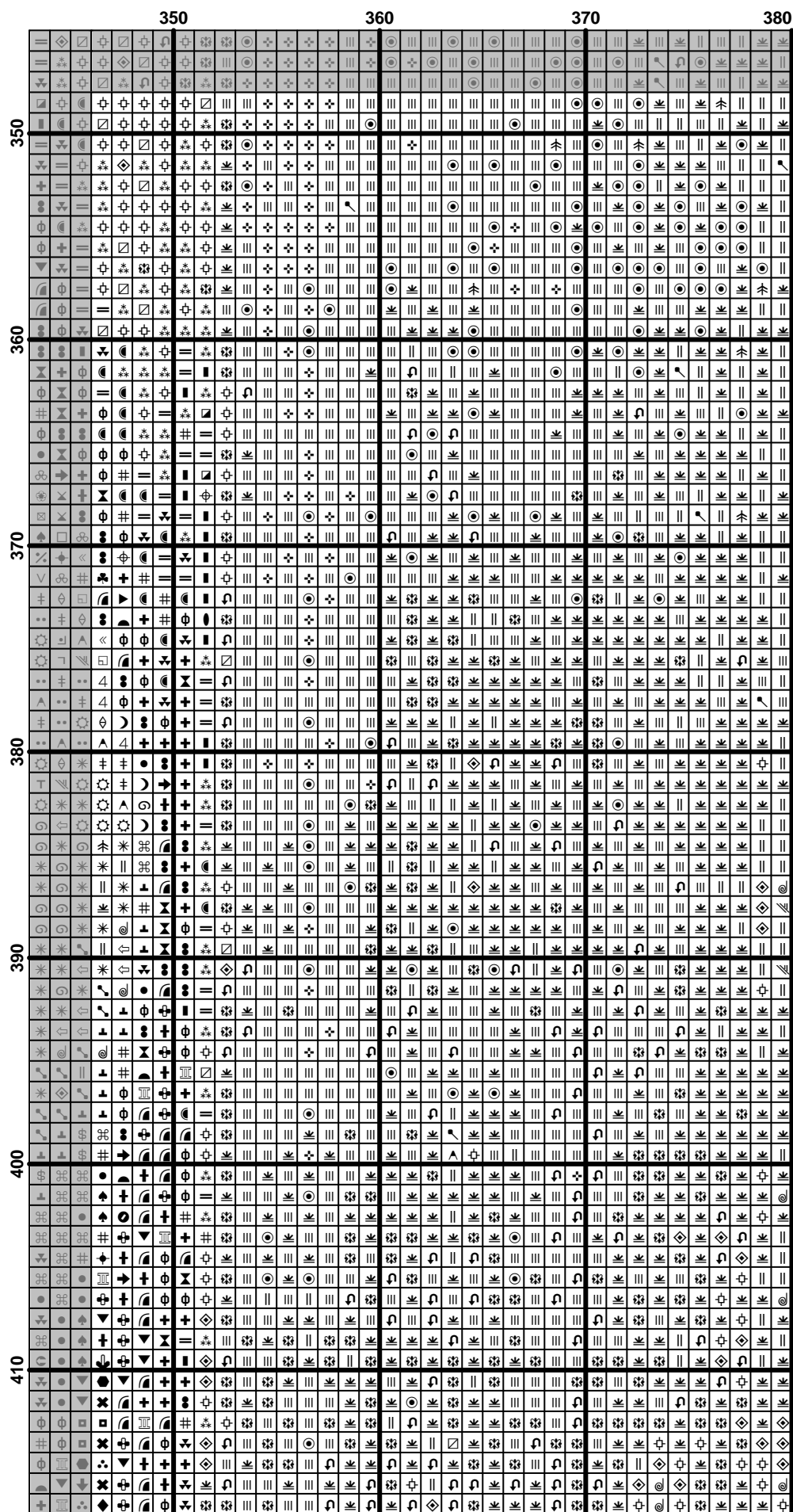
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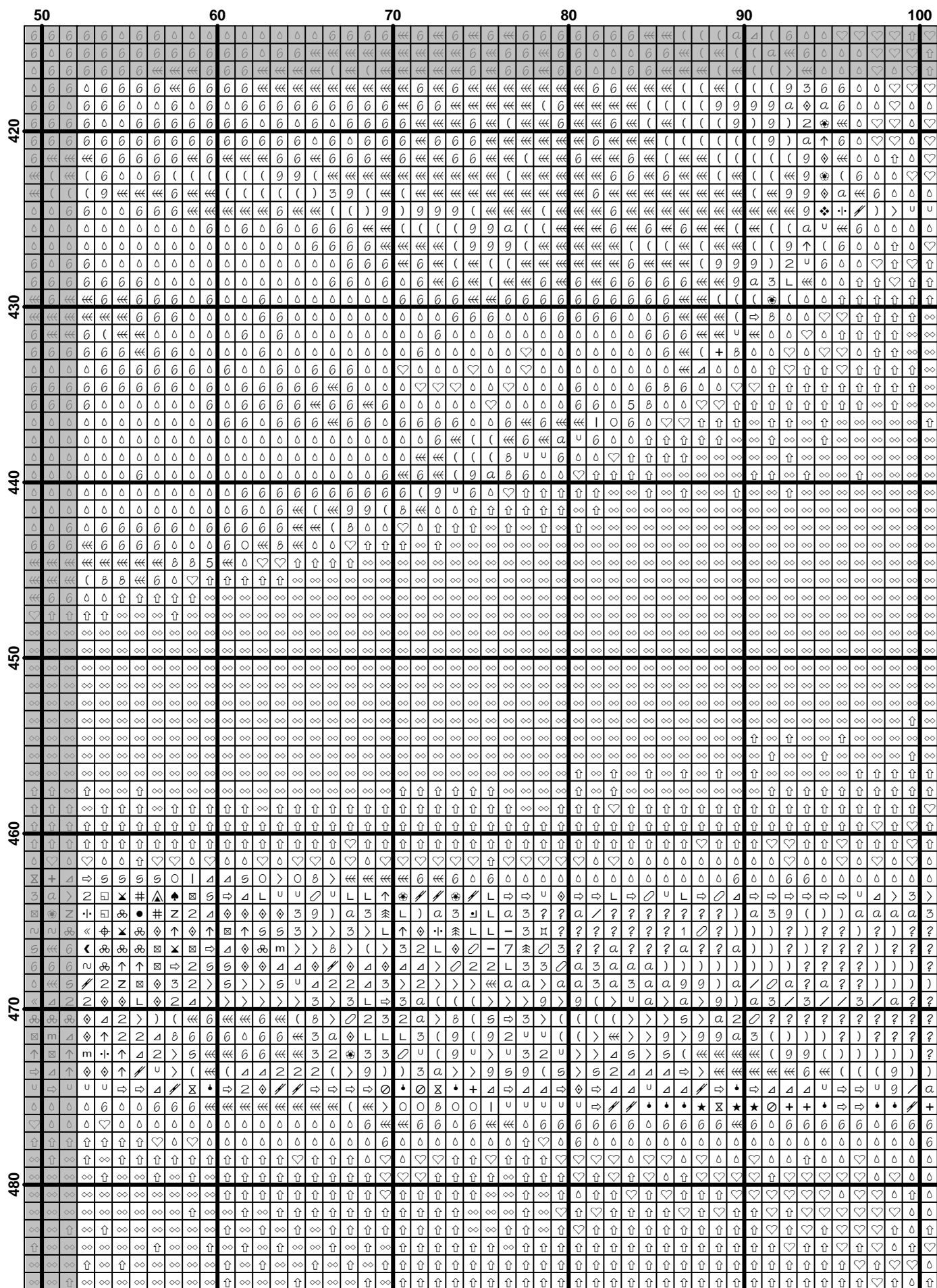






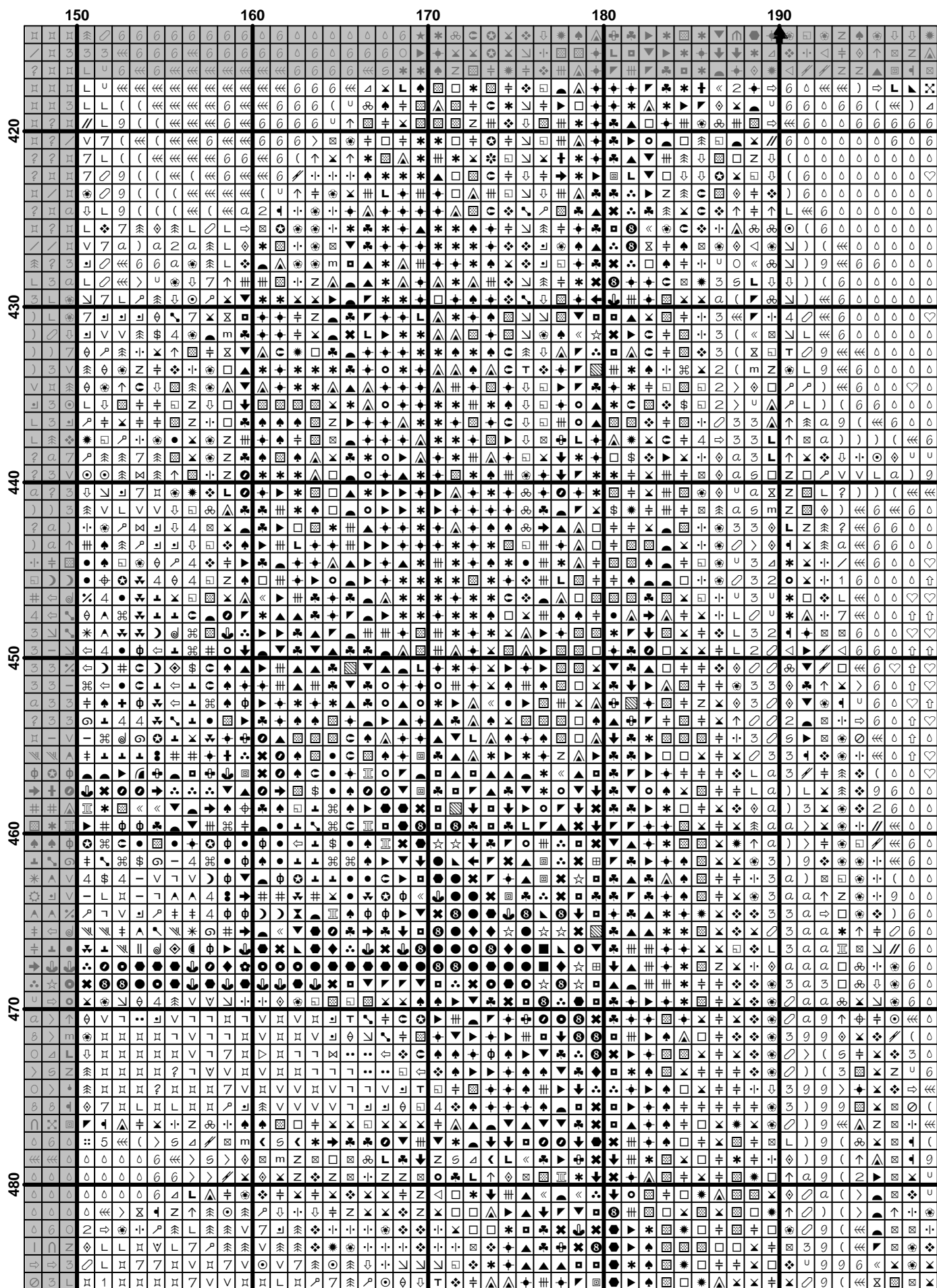


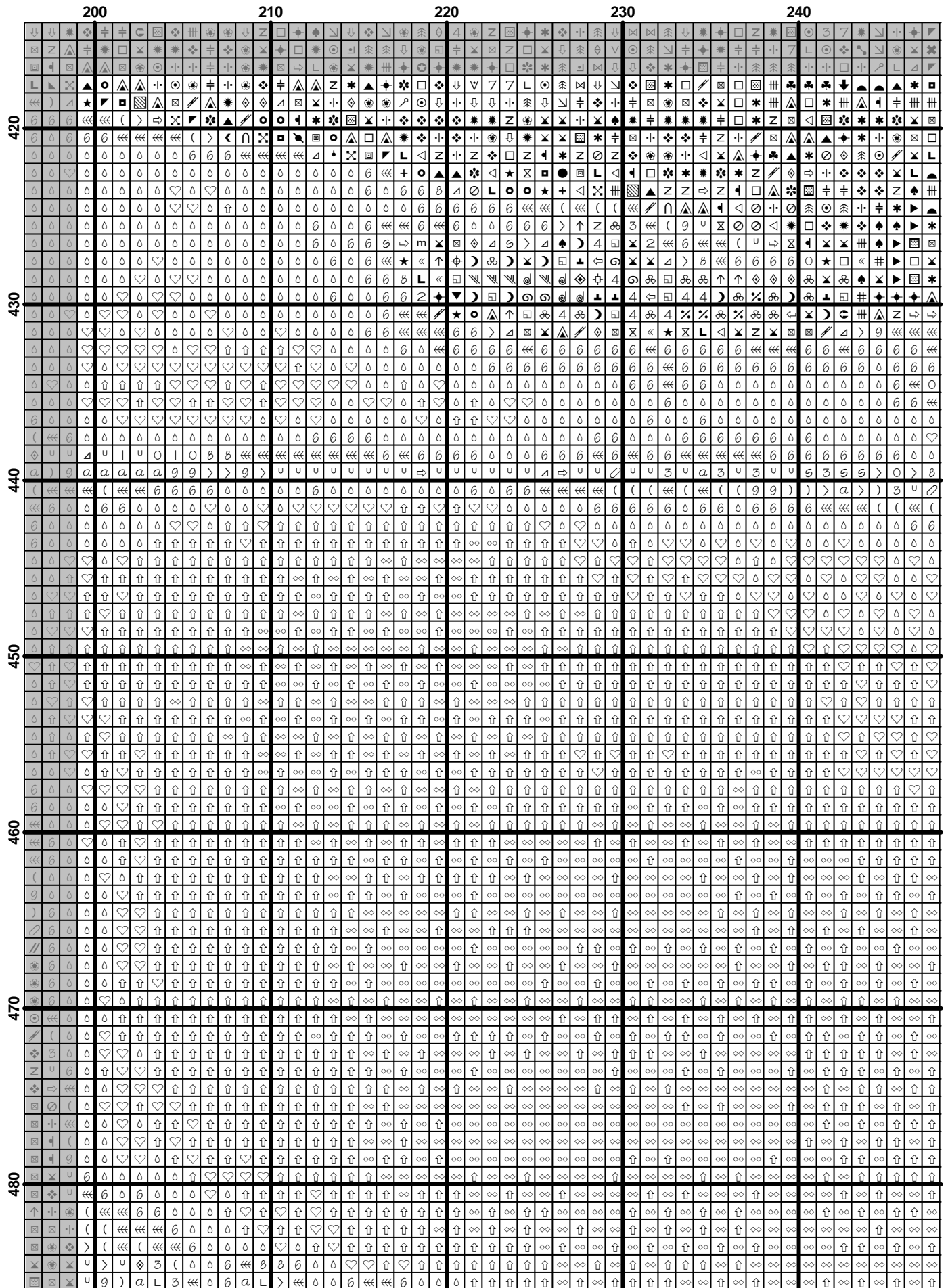
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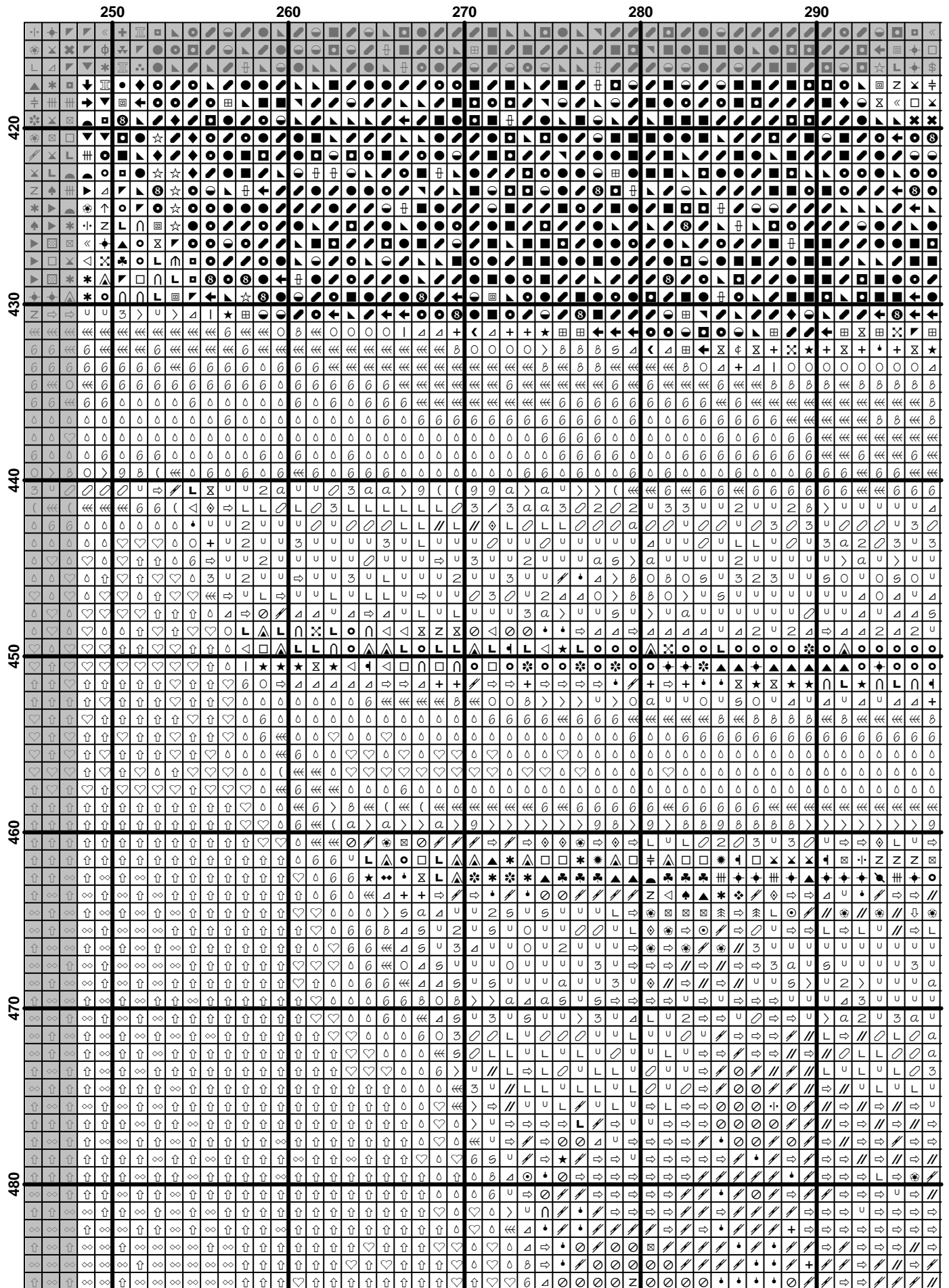


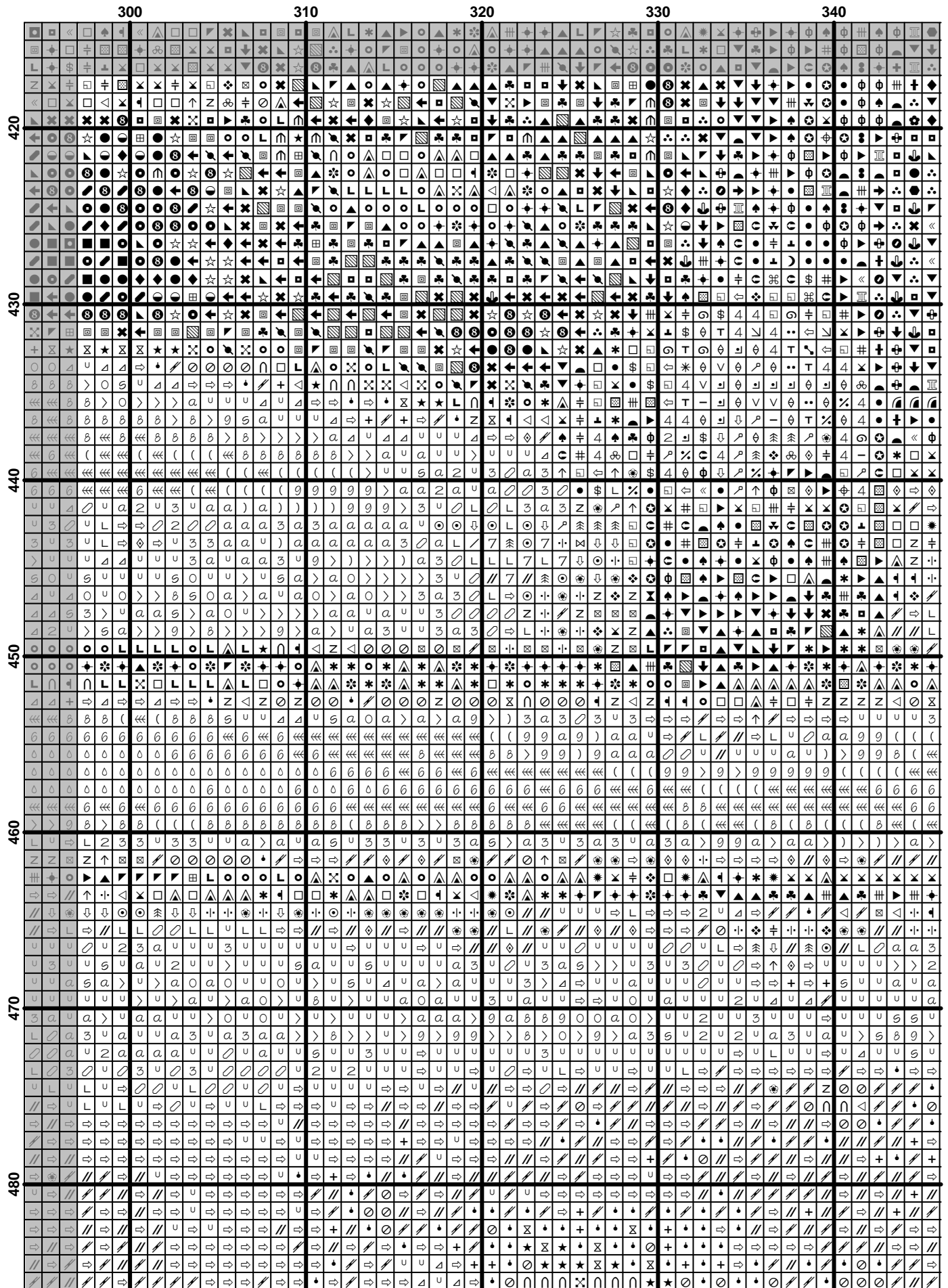


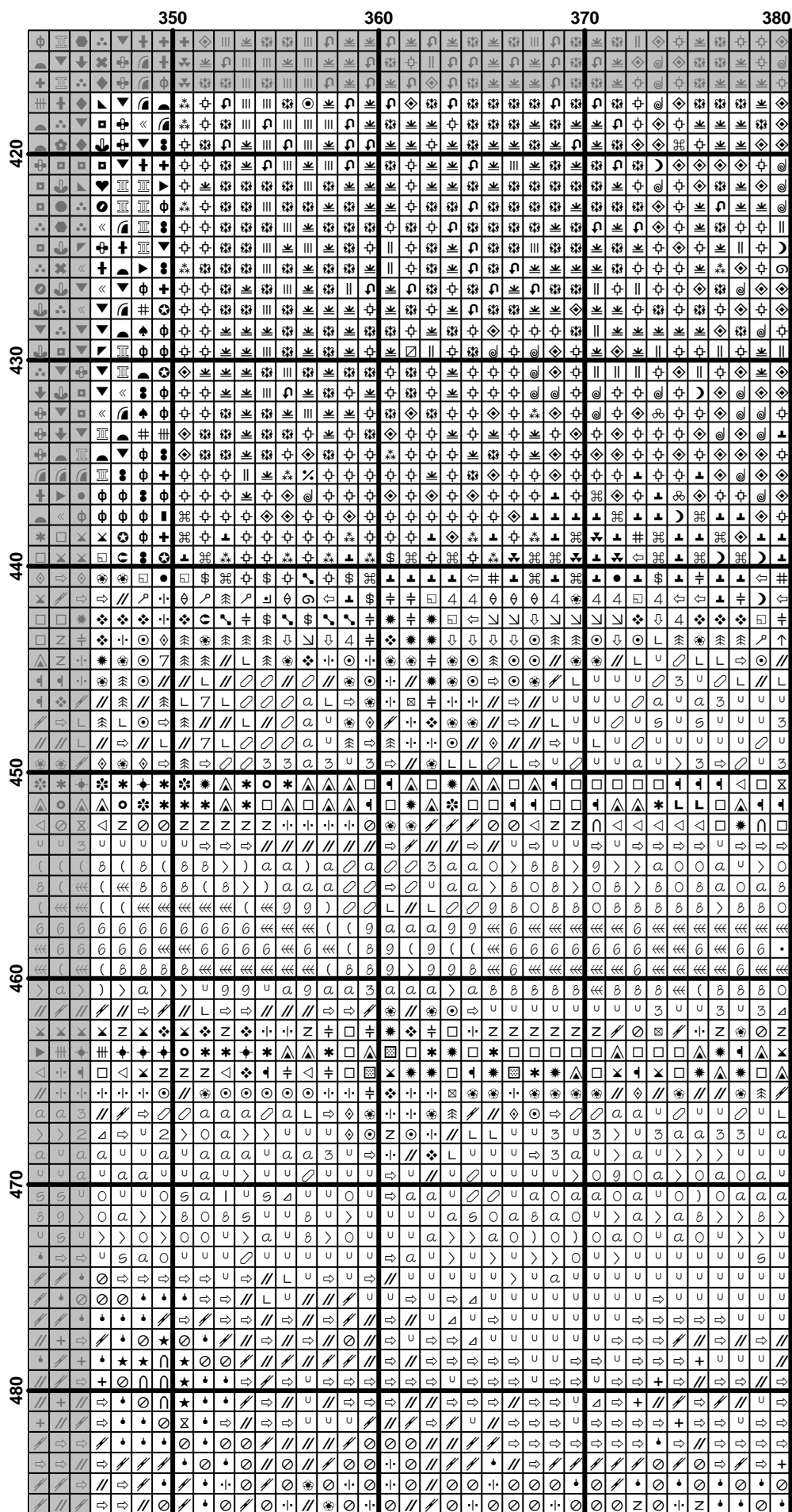
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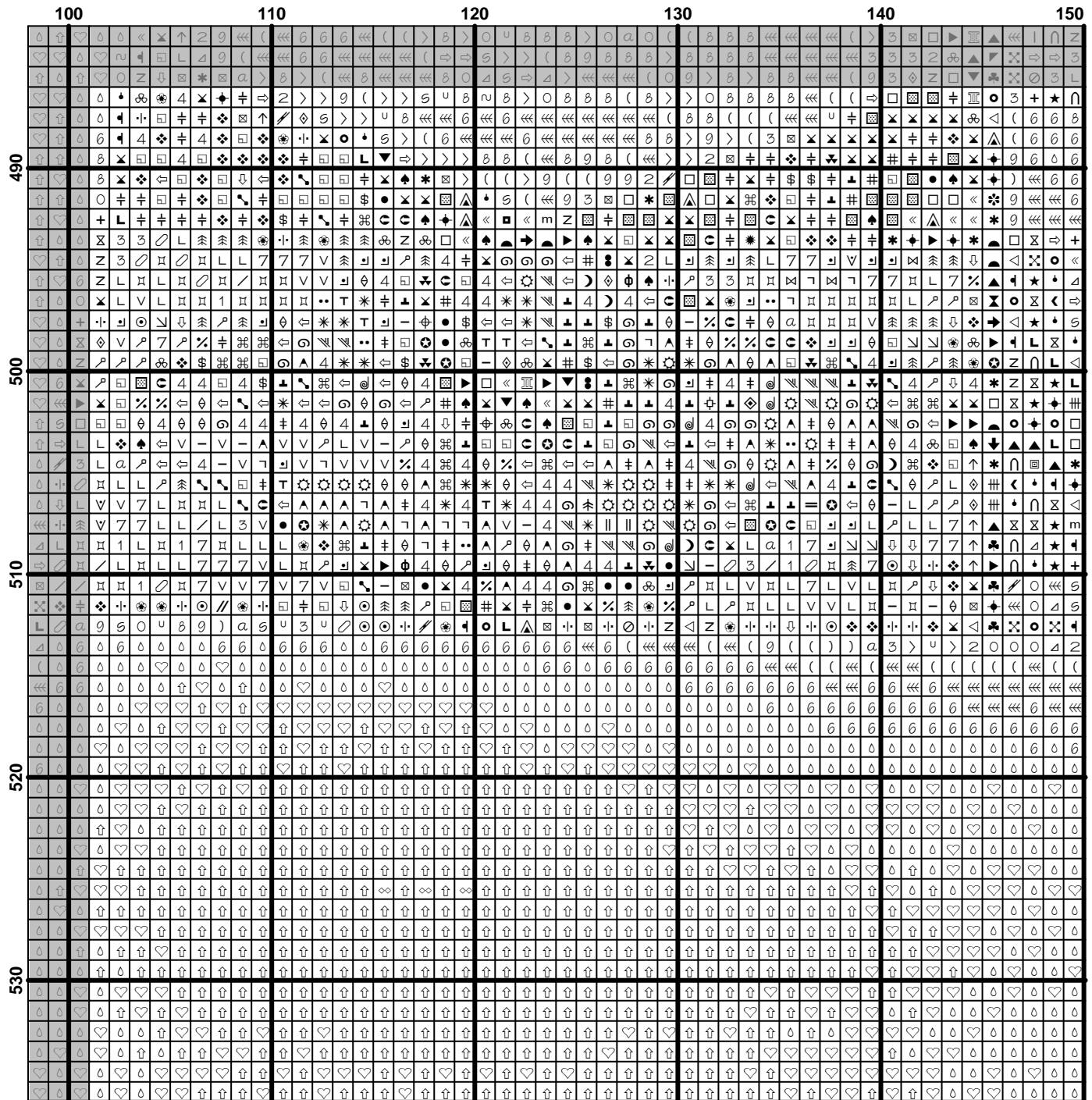


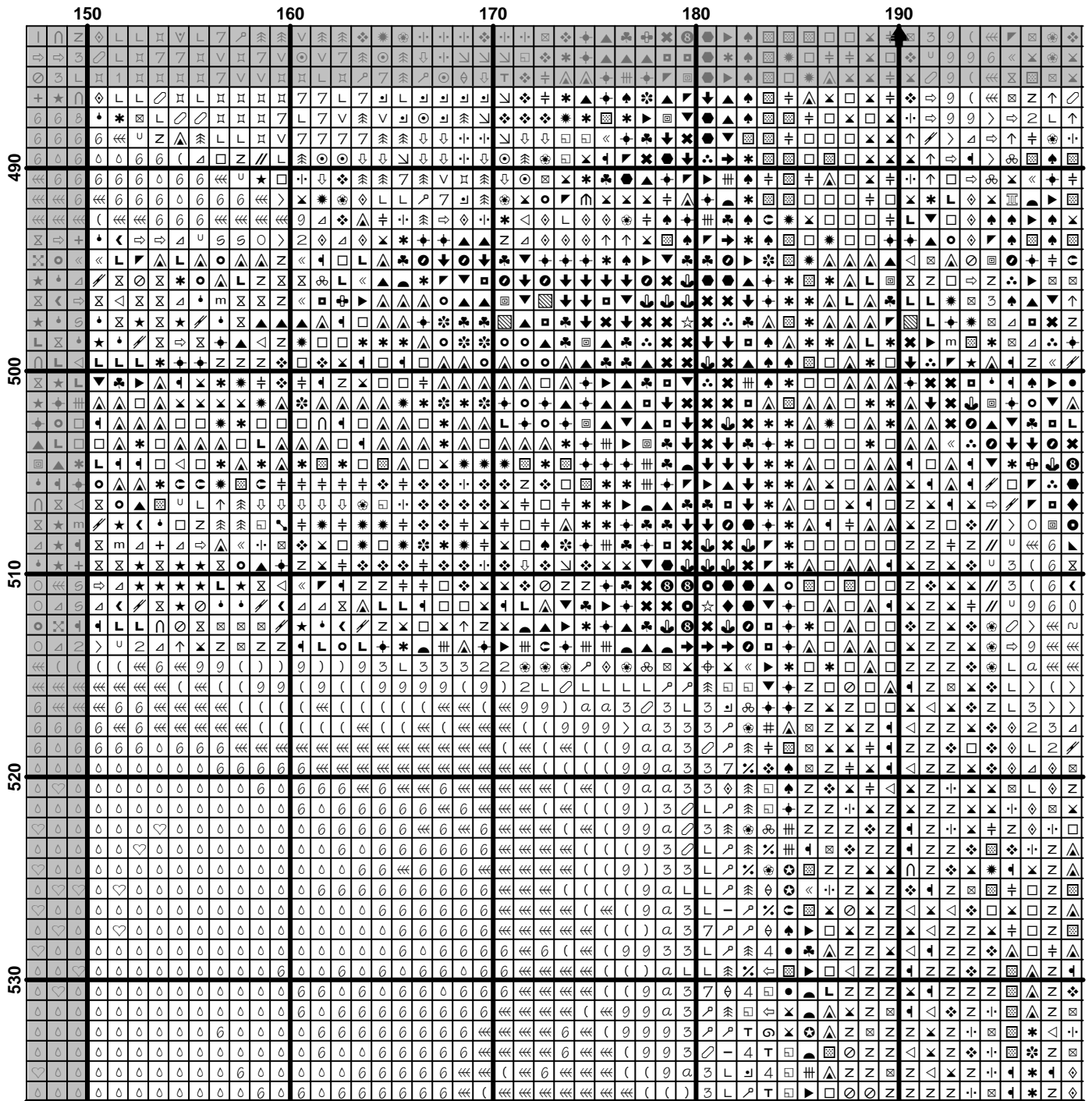


[illegible]

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