

## 549 The Garden of Love



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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.

It is easiest to start in the center of the design. 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 thread consists of six strands.

Use two of these strands for all stitches.

Note that some colors may be mixes (or blends) between two different pure colors. In that case take one strand of the two colors each and thread the two strands into the needle at the same time for stitching.

All stitches are full cross-stitches. No half-stitching and no back-stitching is necessary in this pattern.

All cross-stitches will be worked into the holes in the fabric from left to right. Always use the larger holes in the fabric for the stitches. Adjacent stitches should meet in the same hole. Make sure all stitches cross in the same direction.

Please be careful when washing the finished embroidery! The cotton thread may bleed when washed. Only hand wash it in lukewarm water. Remove excess water by roll it in a towel and lay it flat to air dry. Natural fabrics may shrink slightly when washed. We do not recommend washing the embroidery if not absolutely necessary and we take no responsibility for any damage that may occur.

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## The Garden of Love

Stitch Count	
Horizontal:	807
Vertical:	561

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:	147	57.53	102	40.01	128	50.34	89	35.01	114	44.75	80	31.125
Including Margins:	163	64	118	47	144	57	105	42	130	51	96	38
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	205	80.54	142	56.01	171	67.11	119	46.67	85	33.55	59	23.33
Including Margins:	221	87	158	63	187	74	135	53	101	40	75	30
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	82	32.21	57	22.4	79	30.97	54	21.54	76	29.83	52	20.74
Including Margins:	98	39	73	29	95	37	70	28	92	36	68	27
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	73	28.76	51	20	68	26.84	47	18.67	64	25.16	44	17.5
Including Margins:	89	35	67	27	84	33	63	25	80	32	60	24

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
◀	221	Shell Pink-VY DK
‡	224	Shell Pink-VY LT
◉	301	Mahogany-MD
⊕	312	Baby Blue-VY DK
◊	317	Pewter Gray
⊗	326	Rose-VY DK
⬢	336	Navy Blue
✱	355	Terra Cotta-DK
★	356	Terra Cotta-MD
✕	371	Mustard
◊	407	Desert Sand-DK
⇒	414	Steel Gray-DK
ℙ	415	Pearl Gray
❖	420	Hazelnut Brown-DK
∨	422	Hazelnut Brown-LT
✱	434	Brown-LT
⊗	435	Brown-VY LT
Ⓢ	436	Tan
5	437	Tan-LT
田	451	Shell Gray-DK
▀	501	Blue Green-DK
⌘	502	Blue Green
⌘	503	Blue Green-MD
∞	504	Blue Green-LT
℥	522	Fern Green
2	524	Fern Green-VY LT
▲	535	Ash Gray-VY LT
u	543	Beige Brown-UL VY LT
●	550	Violet-VY DK
⊕	611	Drab Brown
⊖	612	Drab Brown-LT
〉	613	Drab Brown-VY LT
⌘	632	Desert Sand-UL VY DK
⌘	640	Beige Gray-VY DK
//	642	Beige Gray-DK
=	644	Beige Gray-MD
✦	645	Beaver Gray-VY DK
ℙ	646	Beaver Gray-DK
ℙ	647	Beaver Gray-MD
⊕	721	Orange Spice-MD
✦	722	Orange Spice-LT
e	725	Topaz
+	738	Tan-VY LT
^	739	Tan-UL VY LT
-	743	Yellow-MD
c	754	Peach-LT
Ⓢ	758	Terra Cotta-VY LT
℥	781	Topaz-VY DK
℥	782	Topaz-DK
▲	793	Cornflower Blue-MD
(	822	Beige Gray-LT
■	823	Navy Blue-DK
+	830	Golden Olive-DK

✕	831	Golden Olive-MD
↓	833	Golden Olive-LT
✕	838	Beige Brown-VY DK
⊗	839	Beige Brown-DK
↘	841	Beige Brown-LT
√	842	Beige Brown-VY LT
✦	869	Hazelnut Brown-VY DK
⊗	900	Burnt Orange-DK
✱	920	Copper-MD
♦♦	921	Copper
	922	Copper-LT
◀	924	Gray Green--VY DK
=	926	Gray Green-MD
m	927	Gray Green-LT
∴	928	Gray Green-VY LT
✕	930	Antique Blue-DK
Ⓢ	931	Antique Blue-MD
	932	Antique Blue-LT
●	938	Coffee Brown-UL DK
■	939	Navy Blue-VY DK
«	948	Peach-VY LT
::	950	Desert Sand-LT
:	951	Tawny-LT
⌘	975	Golden Brown-DK
L	976	Golden Brown-MD
▀	3021	Brown Gray-VY DK
◊	3032	Mocha Brown-MD
⊕	3041	Antique Violet-MD
⊗	3045	Yellow Beige-DK
☆	3072	Beaver Gray-VY LT
⊗	3346	Hunter Green
↑	3685	Mauve-DK
✕	3721	Shell Pink-DK
●	3722	Shell Pink-MD
⊗	3750	Antique Blue-VY DK
►	3765	Peacock Blue-VY DK
▲	3768	Gray Green-DK
•	3770	Tawny-VY LT
⊕	3772	Desert Sand-VY DK
≡	3773	Desert Sand-MD
)	3774	Desert Sand-VY LT
⇐	3776	Mahogany-LT
□	3778	Terra Cotta-LT
↓	3781	Mocha Brown-DK
〉	3782	Mocha Brown-LT
c	3787	Brown Gray-DK
↓	3799	Pewter Gray-VY DK
✦	3802	Antique Mauve-VY DK
⊕	3807	Cornflower Blue
⊗	3815	Celadon Green-DK
T	3820	Straw-DK
Z	3828	Hazelnut Brown
✱	3829	Old Gold-VY DK
⊕	3830	Terra Cotta-MD
♣	3834	Grape-DK
✕	3852	Straw-VY DK
∨	3853	Autumn Gold-DK
1	3855	Autumn Gold-LT

3856	Mahogany-UL VY LT
3862	Mocha Beige-DK
3863	Mocha Beige-MD

9	3864	Mocha Beige-LT
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Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
☐	3721	Shell Pink-DK	632	Desert Sand-UL VY DK
⬆	632	Desert Sand-UL VY DK	3802	Antique Mauve-VY DK
3	842	Beige Brown-VY LT	3864	Mocha Beige-LT
H	612	Drab Brown-LT	3863	Mocha Beige-MD
●	3799	Pewter Gray-VY DK	3371	Black Brown
☒	3787	Brown Gray-DK	3740	Antique Violet-DK
☞	645	Beaver Gray-VY DK	646	Beaver Gray-DK
☑	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
☑	839	Beige Brown-DK	3862	Mocha Beige-DK
▼	535	Ash Gray-VY LT	501	Blue Green-DK
⬇	932	Antique Blue-LT	931	Antique Blue-MD
⬇	782	Topaz-DK	783	Topaz-MD
⬇	902	Garnet-VY DK	938	Coffee Brown-UL DK
⬇	3722	Shell Pink-MD	3803	Mauve-MD
4	612	Drab Brown-LT	372	Mustard-LT
♥	814	Garnet-DK	3371	Black Brown
∩	927	Gray Green-LT	414	Steel Gray-DK
L	676	Old Gold-LT	3822	Straw-LT
\$	646	Beaver Gray-DK	926	Gray Green-MD
↑	640	Beige Gray-VY DK	3053	Green Gray
⊕	782	Topaz-DK	780	Topaz-UL VY DK
⬇	930	Antique Blue-DK	3768	Gray Green-DK
➔	839	Beige Brown-DK	801	Coffee Brown-DK
☛	3834	Grape-DK	550	Violet-VY DK
#	3863	Mocha Beige-MD	371	Mustard
♠	349	Coral-DK	720	Orange Spice-DK
∅	729	Old Gold-MD	3820	Straw-DK
⬆	3849	Teal Green-LT	932	Antique Blue-LT
⊙	522	Fern Green	646	Beaver Gray-DK
☐	3862	Mocha Beige-DK	611	Drab Brown
☐	3685	Mauve-DK	3721	Shell Pink-DK
☛	3828	Hazelnut Brown	420	Hazelnut Brown-DK
☛	839	Beige Brown-DK	869	Hazelnut Brown-VY DK
⑧	939	Navy Blue-VY DK	938	Coffee Brown-UL DK
◆	3685	Mauve-DK	838	Beige Brown-VY DK
▲	336	Navy Blue	930	Antique Blue-DK
⊙	301	Mahogany-MD	355	Terra Cotta-DK
⬆	501	Blue Green-DK	924	Gray Green--VY DK
⬆	3862	Mocha Beige-DK	830	Golden Olive-DK
↑	3045	Yellow Beige-DK	422	Hazelnut Brown-LT
✕	3828	Hazelnut Brown	434	Brown-LT
⬆	781	Topaz-VY DK	434	Brown-LT
∅	932	Antique Blue-LT	504	Blue Green-LT

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

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
221	Shell Pink-VY DK	161	63	153	60	138	54
224	Shell Pink-VY LT	55	21	52	20	47	18
301	Mahogany-MD	244	96	232	91	209	82
312	Baby Blue-VY DK	48	18	45	17	41	16
317	Pewter Gray	294	115	280	110	252	99
326	Rose-VY DK	485	190	462	181	416	163
336	Navy Blue	286	112	273	107	245	96
349	Coral-DK	65	25	62	24	56	22
355	Terra Cotta-DK	311	122	296	116	266	104
356	Terra Cotta-MD	156	61	149	58	134	52
371	Mustard	2478	975	2360	929	2124	836
372	Mustard-LT	1155	454	1100	433	990	389
407	Desert Sand-DK	535	210	510	200	459	180
414	Steel Gray-DK	277	109	264	103	238	93
415	Pearl Gray	64	25	61	24	54	21
420	Hazelnut Brown-DK	2644	1040	2518	991	2266	892
422	Hazelnut Brown-LT	1105	435	1052	414	947	372
434	Brown-LT	1536	604	1463	575	1317	518
435	Brown-VY LT	591	232	563	221	506	199
436	Tan	616	242	587	231	528	207
437	Tan-LT	431	169	410	161	369	145
451	Shell Gray-DK	425	167	405	159	364	143
501	Blue Green-DK	172	67	164	64	148	58
502	Blue Green	159	62	151	59	136	53
503	Blue Green-MD	134	52	127	50	114	44
504	Blue Green-LT	119	46	113	44	102	40
522	Fern Green	472	185	450	177	405	159
524	Fern Green-VY LT	1036	407	986	388	888	349
535	Ash Gray-VY LT	858	337	817	321	735	289
543	Beige Brown-UL VY LT	454	178	433	170	389	153
550	Violet-VY DK	3001	1181	2858	1125	2572	1012
611	Drab Brown	3943	1552	3755	1478	3379	1330
612	Drab Brown-LT	4419	1739	4209	1657	3788	1491
613	Drab Brown-VY LT	1028	404	979	385	881	346
632	Desert Sand-UL VY DK	2319	912	2208	869	1988	782
640	Beige Gray-VY DK	1666	655	1587	624	1428	562
642	Beige Gray-DK	624	245	594	233	535	210
644	Beige Gray-MD	486	191	463	182	417	164
645	Beaver Gray-VY DK	1209	475	1152	453	1037	408
646	Beaver Gray-DK	1290	507	1229	483	1106	435
647	Beaver Gray-MD	1237	487	1178	463	1060	417
676	Old Gold-LT	30	11	29	11	26	10
720	Orange Spice-DK	65	25	62	24	56	22
721	Orange Spice-MD	59	23	56	22	51	20
722	Orange Spice-LT	12	4	11	4	10	3
725	Topaz	32	12	31	12	28	11
729	Old Gold-MD	55	21	52	20	47	18
738	Tan-VY LT	1990	783	1895	746	1706	671
739	Tan-UL VY LT	580	228	552	217	497	195
743	Yellow-MD	13	5	12	4	11	4
754	Peach-LT	120	47	114	44	103	40
758	Terra Cotta-VY LT	106	41	101	39	91	35
780	Topaz-UL VY DK	465	183	442	174	398	156

781	Topaz-VY DK	550	216	524	206	471	185
782	Topaz-DK	851	335	811	319	730	287
783	Topaz-MD	200	78	190	74	171	67
793	Cornflower Blue-MD	4	1	4	1	3	1
801	Coffee Brown-DK	1067	420	1016	400	914	359
814	Garnet-DK	2620	1031	2495	982	2246	884
822	Beige Gray-LT	436	171	415	163	373	146
823	Navy Blue-DK	714	281	680	267	612	240
830	Golden Olive-DK	2999	1180	2856	1124	2571	1012
831	Golden Olive-MD	1239	487	1180	464	1062	418
833	Golden Olive-LT	200	78	190	74	171	67
838	Beige Brown-VY DK	2951	1161	2811	1106	2530	996
839	Beige Brown-DK	9607	3782	9150	3602	8235	3242
841	Beige Brown-LT	823	324	784	308	705	277
842	Beige Brown-VY LT	1244	489	1184	466	1066	419
869	Hazelnut Brown-VY DK	2310	909	2200	866	1980	779
900	Burnt Orange-DK	90	35	86	33	77	30
902	Garnet-VY DK	437	172	416	163	374	147
920	Copper-MD	149	58	142	55	128	50
921	Copper	342	134	325	127	293	115
922	Copper-LT	21	8	20	7	18	7
924	Gray Green--VY DK	92	36	87	34	79	31
926	Gray Green-MD	490	192	466	183	420	165
927	Gray Green-LT	640	251	609	239	548	215
928	Gray Green-VY LT	356	140	339	133	305	120
930	Antique Blue-DK	274	107	261	102	235	92
931	Antique Blue-MD	155	61	147	57	132	51
932	Antique Blue-LT	326	128	311	122	280	110
938	Coffee Brown-UL DK	4213	1658	4012	1579	3611	1421
939	Navy Blue-VY DK	3541	1394	3372	1327	3035	1194
948	Peach-VY LT	603	237	575	226	517	203
950	Desert Sand-LT	585	230	557	219	502	197
951	Tawny-LT	398	156	379	149	341	134
975	Golden Brown-DK	538	211	513	201	461	181
976	Golden Brown-MD	82	32	78	30	70	27
3021	Brown Gray-VY DK	3224	1269	3071	1209	2764	1088
3032	Mocha Brown-MD	1108	436	1055	415	949	373
3041	Antique Violet-MD	51	20	48	18	43	16
3045	Yellow Beige-DK	1070	421	1019	401	917	361
3053	Green Gray	297	116	283	111	254	100
3072	Beaver Gray-VY LT	53	20	50	19	45	17
3346	Hunter Green	104	40	99	38	89	35
3371	Black Brown	3934	1548	3746	1474	3372	1327
3685	Mauve-DK	1620	637	1543	607	1388	546
3721	Shell Pink-DK	960	377	914	359	823	324
3722	Shell Pink-MD	141	55	135	53	121	47
3740	Antique Violet-DK	442	174	421	165	379	149
3750	Antique Blue-VY DK	24	9	23	9	21	8
3765	Peacock Blue-VY DK	25	9	24	9	21	8
3768	Gray Green-DK	89	35	85	33	76	29
3770	Tawny-VY LT	340	133	324	127	291	114
3772	Desert Sand-VY DK	1170	460	1115	438	1003	394
3773	Desert Sand-MD	414	162	395	155	355	139
3774	Desert Sand-VY LT	378	148	360	141	324	127
3776	Mahogany-LT	73	28	70	27	63	24
3778	Terra Cotta-LT	44	17	41	16	37	14
3781	Mocha Brown-DK	1125	442	1071	421	964	379
3782	Mocha Brown-LT	1186	466	1129	444	1016	400
3787	Brown Gray-DK	1832	721	1744	686	1570	618

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3799	Pewter Gray-VY DK	1964	773	1870	736	1683	662
3802	Antique Mauve-VY DK	1142	449	1088	428	979	385
3803	Mauve-MD	80	31	76	29	68	26
3807	Cornflower Blue	7	2	7	2	6	2
3815	Celadon Green-DK	134	52	128	50	115	45
3820	Straw-DK	112	44	107	42	96	37
3822	Straw-LT	30	11	29	11	26	10
3828	Hazelnut Brown	2721	1071	2591	1020	2332	918
3829	Old Gold-VY DK	624	245	595	234	535	210
3830	Terra Cotta-MD	378	148	360	141	324	127
3834	Grape-DK	1122	441	1068	420	961	378
3849	Teal Green-LT	48	18	45	17	41	16
3852	Straw-VY DK	198	77	188	74	170	66
3853	Autumn Gold-DK	22	8	20	7	18	7
3855	Autumn Gold-LT	27	10	26	10	23	9
3856	Mahogany-UL VY LT	259	101	247	97	222	87
3862	Mocha Beige-DK	9334	3674	8889	3499	8000	3149
3863	Mocha Beige-MD	3578	1408	3408	1341	3067	1207
3864	Mocha Beige-LT	2962	1166	2821	1110	2539	999

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	248	97	207	81	104	41
224	Shell Pink-VY LT	85	32	71	27	35	14
301	Mahogany-MD	376	148	314	123	157	62
312	Baby Blue-VY DK	74	29	62	24	31	12
317	Pewter Gray	454	178	378	149	189	74
326	Rose-VY DK	749	293	624	245	312	122
336	Navy Blue	441	173	368	144	184	72
349	Coral-DK	101	40	84	33	42	17
355	Terra Cotta-DK	479	187	399	156	200	78
356	Terra Cotta-MD	241	94	201	78	101	39
371	Mustard	3823	1505	3186	1254	1593	627
372	Mustard-LT	1782	700	1485	584	743	292
407	Desert Sand-DK	826	324	689	270	344	135
414	Steel Gray-DK	428	167	357	140	179	70
415	Pearl Gray	97	38	81	32	41	16
420	Hazelnut Brown-DK	4079	1606	3399	1338	1700	669
422	Hazelnut Brown-LT	1705	670	1421	558	710	279
434	Brown-LT	2371	932	1976	777	988	389
435	Brown-VY LT	911	358	759	299	380	149
436	Tan	950	373	792	311	396	155
437	Tan-LT	664	261	554	218	277	109
451	Shell Gray-DK	655	257	546	215	273	107
501	Blue Green-DK	266	104	222	87	111	44
502	Blue Green	245	95	204	80	102	40
503	Blue Green-MD	205	79	171	66	86	33
504	Blue Green-LT	184	72	153	60	77	30
522	Fern Green	729	286	608	239	304	119
524	Fern Green-VY LT	1598	628	1332	524	666	262
535	Ash Gray-VY LT	1323	520	1103	434	551	217
543	Beige Brown-UL VY LT	700	275	584	230	292	115
550	Violet-VY DK	4630	1822	3858	1518	1929	759
611	Drab Brown	6082	2394	5069	1995	2534	998
612	Drab Brown-LT	6818	2684	5682	2237	2841	1118



613	Drab Brown-VY LT	1586	623	1322	519	661	260
632	Desert Sand-UL VY DK	3578	1408	2982	1173	1491	587
640	Beige Gray-VY DK	2570	1012	2142	843	1071	422
642	Beige Gray-DK	963	378	803	315	401	158
644	Beige Gray-MD	751	295	626	246	313	123
645	Beaver Gray-VY DK	1867	734	1556	612	778	306
646	Beaver Gray-DK	1991	783	1659	653	830	326
647	Beaver Gray-MD	1908	751	1590	626	795	313
676	Old Gold-LT	47	18	39	15	20	8
720	Orange Spice-DK	101	40	84	33	42	17
721	Orange Spice-MD	92	36	77	30	38	15
722	Orange Spice-LT	18	5	15	5	8	2
725	Topaz	50	20	42	17	21	8
729	Old Gold-MD	85	32	71	27	35	14
738	Tan-VY LT	3071	1208	2559	1007	1280	503
739	Tan-UL VY LT	895	351	746	293	373	146
743	Yellow-MD	20	7	17	6	8	3
754	Peach-LT	185	72	155	60	77	30
758	Terra Cotta-VY LT	164	63	137	53	68	26
780	Topaz-UL VY DK	716	281	597	234	299	117
781	Topaz-VY DK	848	333	707	278	353	139
782	Topaz-DK	1314	517	1095	431	548	215
783	Topaz-MD	308	121	257	101	128	50
793	Cornflower Blue-MD	5	2	5	2	2	1
801	Coffee Brown-DK	1645	646	1371	539	686	269
814	Garnet-DK	4043	1591	3369	1326	1685	663
822	Beige Gray-LT	671	263	560	219	280	110
823	Navy Blue-DK	1102	432	918	360	459	180
830	Golden Olive-DK	4628	1822	3857	1518	1928	759
831	Golden Olive-MD	1912	752	1593	627	797	314
833	Golden Olive-LT	308	121	257	101	128	50
838	Beige Brown-VY DK	4554	1793	3795	1494	1898	747
839	Beige Brown-DK	14823	5836	12353	4863	6176	2432
841	Beige Brown-LT	1269	499	1058	416	529	208
842	Beige Brown-VY LT	1919	754	1599	629	800	314
869	Hazelnut Brown-VY DK	3564	1402	2970	1169	1485	584
900	Burnt Orange-DK	139	54	116	45	58	23
902	Garnet-VY DK	673	265	561	221	281	110
920	Copper-MD	230	90	192	75	96	38
921	Copper	527	207	440	173	220	86
922	Copper-LT	32	13	27	11	14	5
924	Gray Green--VY DK	142	56	119	47	59	23
926	Gray Green-MD	756	297	630	248	315	124
927	Gray Green-LT	986	387	822	323	411	161
928	Gray Green-VY LT	549	216	458	180	229	90
930	Antique Blue-DK	423	166	353	138	176	69
931	Antique Blue-MD	238	92	198	77	99	38
932	Antique Blue-LT	504	198	420	165	210	83
938	Coffee Brown-UL DK	6500	2558	5417	2132	2708	1066
939	Navy Blue-VY DK	5463	2149	4553	1791	2276	896
948	Peach-VY LT	931	365	776	305	388	152
950	Desert Sand-LT	904	355	753	296	377	148
951	Tawny-LT	614	241	512	201	256	101
975	Golden Brown-DK	830	326	692	272	346	136
976	Golden Brown-MD	126	49	105	41	53	20
3021	Brown Gray-VY DK	4975	1958	4146	1632	2073	816
3032	Mocha Brown-MD	1708	671	1424	560	712	280
3041	Antique Violet-MD	77	29	65	24	32	12
3045	Yellow Beige-DK	1651	650	1376	542	688	271

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3053	Green Gray	457	180	381	150	191	75
3072	Beaver Gray-VY LT	81	31	68	26	34	13
3346	Hunter Green	160	63	134	53	67	26
3371	Black Brown	6070	2389	5058	1991	2529	995
3685	Mauve-DK	2498	983	2082	819	1041	410
3721	Shell Pink-DK	1481	583	1235	486	617	243
3722	Shell Pink-MD	218	85	182	71	91	35
3740	Antique Violet-DK	682	268	569	224	284	112
3750	Antique Blue-VY DK	38	14	32	12	16	6
3765	Peacock Blue-VY DK	38	14	32	12	16	6
3768	Gray Green-DK	137	52	114	44	57	22
3770	Tawny-VY LT	524	205	437	171	218	86
3772	Desert Sand-VY DK	1805	709	1505	591	752	296
3773	Desert Sand-MD	639	250	533	209	266	104
3774	Desert Sand-VY LT	583	229	486	191	243	95
3776	Mahogany-LT	113	43	95	36	47	18
3778	Terra Cotta-LT	67	25	56	21	28	11
3781	Mocha Brown-DK	1735	682	1446	569	723	284
3782	Mocha Brown-LT	1829	720	1524	600	762	300
3787	Brown Gray-DK	2826	1112	2355	927	1178	464
3799	Pewter Gray-VY DK	3029	1192	2525	993	1262	497
3802	Antique Mauve-VY DK	1762	693	1469	578	734	289
3803	Mauve-MD	122	47	102	39	51	20
3807	Cornflower Blue	11	4	9	3	5	2
3815	Celadon Green-DK	207	81	173	68	86	34
3820	Straw-DK	173	67	144	56	72	28
3822	Straw-LT	47	18	39	15	20	8
3828	Hazelnut Brown	4198	1652	3498	1377	1749	689
3829	Old Gold-VY DK	963	378	803	315	401	158
3830	Terra Cotta-MD	583	229	486	191	243	95
3834	Grape-DK	1730	680	1442	567	721	284
3849	Teal Green-LT	74	29	62	24	31	12
3852	Straw-VY DK	306	119	255	99	128	50
3853	Autumn Gold-DK	32	13	27	11	14	5
3855	Autumn Gold-LT	41	16	35	14	17	7
3856	Mahogany-UL VY LT	400	157	333	131	167	65
3862	Mocha Beige-DK	14400	5668	12000	4724	6000	2362
3863	Mocha Beige-MD	5521	2173	4601	1811	2300	905
3864	Mocha Beige-LT	4570	1798	3809	1499	1904	749

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	99	39	96	37	92	36
224	Shell Pink-VY LT	34	13	33	12	31	12
301	Mahogany-MD	150	59	145	57	139	55
312	Baby Blue-VY DK	30	12	28	11	27	11
317	Pewter Gray	181	71	174	69	168	66
326	Rose-VY DK	300	117	288	113	277	109
336	Navy Blue	176	69	170	66	163	64
349	Coral-DK	40	16	39	15	37	15
355	Terra Cotta-DK	192	75	184	72	177	69
356	Terra Cotta-MD	96	37	93	36	89	35
371	Mustard	1529	602	1470	579	1416	557
372	Mustard-LT	713	280	685	269	660	259
407	Desert Sand-DK	330	130	318	125	306	120

414	Steel Gray-DK	171	67	165	64	159	62
415	Pearl Gray	39	15	37	15	36	14
420	Hazelnut Brown-DK	1632	642	1569	618	1511	595
422	Hazelnut Brown-LT	682	268	656	258	631	248
434	Brown-LT	948	373	912	359	878	345
435	Brown-VY LT	364	143	350	138	337	133
436	Tan	380	149	366	143	352	138
437	Tan-LT	266	104	255	100	246	97
451	Shell Gray-DK	262	103	252	99	243	95
501	Blue Green-DK	107	42	102	40	99	39
502	Blue Green	98	38	94	37	91	35
503	Blue Green-MD	82	32	79	30	76	29
504	Blue Green-LT	73	29	71	28	68	27
522	Fern Green	292	114	280	110	270	106
524	Fern Green-VY LT	639	251	615	242	592	233
535	Ash Gray-VY LT	529	208	509	200	490	193
543	Beige Brown-UL VY LT	280	110	269	106	259	102
550	Violet-VY DK	1852	729	1781	701	1715	675
611	Drab Brown	2433	958	2339	921	2253	887
612	Drab Brown-LT	2727	1074	2622	1032	2525	994
613	Drab Brown-VY LT	634	249	610	240	587	231
632	Desert Sand-UL VY DK	1431	563	1376	541	1325	521
640	Beige Gray-VY DK	1028	405	989	389	952	375
642	Beige Gray-DK	385	151	370	145	357	140
644	Beige Gray-MD	300	118	289	114	278	109
645	Beaver Gray-VY DK	747	294	718	282	691	272
646	Beaver Gray-DK	796	313	766	301	737	290
647	Beaver Gray-MD	763	300	734	289	707	278
676	Old Gold-LT	19	7	18	7	17	7
720	Orange Spice-DK	40	16	39	15	37	15
721	Orange Spice-MD	37	14	35	14	34	13
722	Orange Spice-LT	7	2	7	2	7	2
725	Topaz	20	8	19	8	19	7
729	Old Gold-MD	34	13	33	12	31	12
738	Tan-VY LT	1228	483	1181	465	1137	447
739	Tan-UL VY LT	358	140	344	135	331	130
743	Yellow-MD	8	3	8	3	7	3
754	Peach-LT	74	29	71	28	69	27
758	Terra Cotta-VY LT	66	25	63	24	61	23
780	Topaz-UL VY DK	287	112	276	108	265	104
781	Topaz-VY DK	339	133	326	128	314	123
782	Topaz-DK	526	207	505	199	487	191
783	Topaz-MD	123	48	118	46	114	45
793	Cornflower Blue-MD	2	1	2	1	2	1
801	Coffee Brown-DK	658	258	633	249	609	239
814	Garnet-DK	1617	636	1555	612	1497	589
822	Beige Gray-LT	269	105	258	101	249	97
823	Navy Blue-DK	441	173	424	166	408	160
830	Golden Olive-DK	1851	729	1780	701	1714	675
831	Golden Olive-MD	765	301	735	289	708	279
833	Golden Olive-LT	123	48	118	46	114	45
838	Beige Brown-VY DK	1822	717	1752	690	1687	664
839	Beige Brown-DK	5929	2334	5701	2244	5490	2161
841	Beige Brown-LT	508	199	488	192	470	185
842	Beige Brown-VY LT	768	302	738	290	711	279
869	Hazelnut Brown-VY DK	1426	561	1371	539	1320	519
900	Burnt Orange-DK	55	22	53	21	51	20
902	Garnet-VY DK	269	106	259	102	249	98
920	Copper-MD	92	36	89	35	85	33

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921	Copper	211	83	203	80	195	77
922	Copper-LT	13	5	12	5	12	5
924	Gray Green--VY DK	57	22	55	21	53	21
926	Gray Green-MD	302	119	291	114	280	110
927	Gray Green-LT	395	155	379	149	365	143
928	Gray Green-VY LT	220	86	211	83	203	80
930	Antique Blue-DK	169	66	163	64	157	61
931	Antique Blue-MD	95	37	91	35	88	34
932	Antique Blue-LT	202	79	194	76	187	73
938	Coffee Brown-UL DK	2600	1023	2500	984	2407	947
939	Navy Blue-VY DK	2185	860	2101	827	2023	796
948	Peach-VY LT	372	146	358	141	345	135
950	Desert Sand-LT	361	142	348	136	335	131
951	Tawny-LT	246	96	236	93	227	89
975	Golden Brown-DK	332	130	319	125	307	121
976	Golden Brown-MD	50	19	48	19	47	18
3021	Brown Gray-VY DK	1990	783	1914	753	1843	725
3032	Mocha Brown-MD	683	269	657	258	633	249
3041	Antique Violet-MD	31	12	30	11	29	11
3045	Yellow Beige-DK	660	260	635	250	611	241
3053	Green Gray	183	72	176	69	169	67
3072	Beaver Gray-VY LT	32	12	31	12	30	11
3346	Hunter Green	64	25	62	24	59	23
3371	Black Brown	2428	955	2334	919	2248	885
3685	Mauve-DK	999	393	961	378	925	364
3721	Shell Pink-DK	593	233	570	224	549	216
3722	Shell Pink-MD	87	34	84	33	81	31
3740	Antique Violet-DK	273	107	262	103	253	99
3750	Antique Blue-VY DK	15	6	15	6	14	5
3765	Peacock Blue-VY DK	15	6	15	6	14	5
3768	Gray Green-DK	55	21	53	20	51	19
3770	Tawny-VY LT	210	82	201	79	194	76
3772	Desert Sand-VY DK	722	284	694	273	669	263
3773	Desert Sand-MD	256	100	246	96	237	93
3774	Desert Sand-VY LT	233	91	224	88	216	85
3776	Mahogany-LT	45	17	44	17	42	16
3778	Terra Cotta-LT	27	10	26	10	25	9
3781	Mocha Brown-DK	694	273	667	262	643	253
3782	Mocha Brown-LT	732	288	703	277	677	267
3787	Brown Gray-DK	1130	445	1087	428	1047	412
3799	Pewter Gray-VY DK	1212	477	1165	458	1122	441
3802	Antique Mauve-VY DK	705	277	678	267	653	257
3803	Mauve-MD	49	19	47	18	45	17
3807	Cornflower Blue	4	1	4	1	4	1
3815	Celadon Green-DK	83	32	80	31	77	30
3820	Straw-DK	69	27	66	26	64	25
3822	Straw-LT	19	7	18	7	17	7
3828	Hazelnut Brown	1679	661	1614	636	1555	612
3829	Old Gold-VY DK	385	151	370	145	357	140
3830	Terra Cotta-MD	233	91	224	88	216	85
3834	Grape-DK	692	272	665	262	641	252
3849	Teal Green-LT	30	12	28	11	27	11
3852	Straw-VY DK	122	48	118	46	113	44
3853	Autumn Gold-DK	13	5	12	5	12	5
3855	Autumn Gold-LT	17	6	16	6	15	6
3856	Mahogany-UL VY LT	160	63	154	60	148	58
3862	Mocha Beige-DK	5760	2267	5538	2180	5333	2099
3863	Mocha Beige-MD	2208	869	2123	836	2045	805
3864	Mocha Beige-LT	1828	719	1758	692	1693	666

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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	89	35	83	32	78	30
224	Shell Pink-VY LT	30	12	28	11	26	10
301	Mahogany-MD	134	53	125	49	118	46
312	Baby Blue-VY DK	26	10	25	10	23	9
317	Pewter Gray	162	64	151	59	142	56
326	Rose-VY DK	267	105	250	98	234	92
336	Navy Blue	158	62	147	58	138	54
349	Coral-DK	36	14	34	13	32	12
355	Terra Cotta-DK	171	67	160	62	150	59
356	Terra Cotta-MD	86	33	80	31	75	29
371	Mustard	1365	537	1274	502	1195	470
372	Mustard-LT	636	250	594	233	557	219
407	Desert Sand-DK	295	116	275	108	258	101
414	Steel Gray-DK	153	60	143	56	134	52
415	Pearl Gray	35	14	32	13	30	12
420	Hazelnut Brown-DK	1457	573	1360	535	1275	502
422	Hazelnut Brown-LT	609	239	568	223	533	209
434	Brown-LT	847	333	790	311	741	291
435	Brown-VY LT	325	128	304	119	285	112
436	Tan	339	133	317	124	297	116
437	Tan-LT	237	93	221	87	208	82
451	Shell Gray-DK	234	92	218	86	205	80
501	Blue Green-DK	95	37	89	35	83	33
502	Blue Green	87	34	82	32	77	30
503	Blue Green-MD	73	28	68	26	64	25
504	Blue Green-LT	66	26	61	24	57	23
522	Fern Green	260	102	243	95	228	89
524	Fern Green-VY LT	571	224	533	209	500	196
535	Ash Gray-VY LT	473	186	441	173	413	163
543	Beige Brown-UL VY LT	250	98	233	92	219	86
550	Violet-VY DK	1653	651	1543	607	1447	569
611	Drab Brown	2172	855	2027	798	1901	748
612	Drab Brown-LT	2435	959	2273	895	2131	839
613	Drab Brown-VY LT	566	222	529	208	496	195
632	Desert Sand-UL VY DK	1278	503	1193	469	1118	440
640	Beige Gray-VY DK	918	361	857	337	803	316
642	Beige Gray-DK	344	135	321	126	301	118
644	Beige Gray-MD	268	105	250	98	235	92
645	Beaver Gray-VY DK	667	262	622	245	583	230
646	Beaver Gray-DK	711	280	664	261	622	245
647	Beaver Gray-MD	681	268	636	250	596	235
676	Old Gold-LT	17	6	16	6	15	6
720	Orange Spice-DK	36	14	34	13	32	12
721	Orange Spice-MD	33	13	31	12	29	11
722	Orange Spice-LT	6	2	6	2	6	2
725	Topaz	18	7	17	7	16	6
729	Old Gold-MD	30	12	28	11	26	10
738	Tan-VY LT	1097	431	1024	403	960	377
739	Tan-UL VY LT	320	125	298	117	280	110
743	Yellow-MD	7	3	7	2	6	2
754	Peach-LT	66	26	62	24	58	23
758	Terra Cotta-VY LT	59	23	55	21	51	20
780	Topaz-UL VY DK	256	100	239	94	224	88

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781	Topaz-VY DK	303	119	283	111	265	104
782	Topaz-DK	469	185	438	172	411	161
783	Topaz-MD	110	43	103	40	96	38
793	Cornflower Blue-MD	2	1	2	1	2	1
801	Coffee Brown-DK	588	231	548	215	514	202
814	Garnet-DK	1444	568	1348	530	1263	497
822	Beige Gray-LT	240	94	224	88	210	82
823	Navy Blue-DK	393	154	367	144	344	135
830	Golden Olive-DK	1653	651	1543	607	1446	569
831	Golden Olive-MD	683	269	637	251	597	235
833	Golden Olive-LT	110	43	103	40	96	38
838	Beige Brown-VY DK	1626	640	1518	598	1423	560
839	Beige Brown-DK	5294	2084	4941	1945	4632	1824
841	Beige Brown-LT	453	178	423	166	397	156
842	Beige Brown-VY LT	685	269	640	251	600	236
869	Hazelnut Brown-VY DK	1273	501	1188	467	1114	438
900	Burnt Orange-DK	50	19	46	18	43	17
902	Garnet-VY DK	240	95	224	88	210	83
920	Copper-MD	82	32	77	30	72	28
921	Copper	188	74	176	69	165	65
922	Copper-LT	12	5	11	4	10	4
924	Gray Green--VY DK	51	20	47	19	44	17
926	Gray Green-MD	270	106	252	99	236	93
927	Gray Green-LT	352	138	329	129	308	121
928	Gray Green-VY LT	196	77	183	72	172	68
930	Antique Blue-DK	151	59	141	55	132	52
931	Antique Blue-MD	85	33	79	31	74	29
932	Antique Blue-LT	180	71	168	66	158	62
938	Coffee Brown-UL DK	2321	914	2167	853	2031	799
939	Navy Blue-VY DK	1951	768	1821	716	1707	672
948	Peach-VY LT	332	131	310	122	291	114
950	Desert Sand-LT	323	127	301	118	282	111
951	Tawny-LT	219	86	205	80	192	75
975	Golden Brown-DK	296	116	277	109	259	102
976	Golden Brown-MD	45	17	42	16	39	15
3021	Brown Gray-VY DK	1777	699	1658	653	1555	612
3032	Mocha Brown-MD	610	240	569	224	534	210
3041	Antique Violet-MD	28	10	26	10	24	9
3045	Yellow Beige-DK	590	232	550	217	516	203
3053	Green Gray	163	64	152	60	143	56
3072	Beaver Gray-VY LT	29	11	27	10	25	10
3346	Hunter Green	57	23	53	21	50	20
3371	Black Brown	2168	853	2023	796	1897	746
3685	Mauve-DK	892	351	833	328	781	307
3721	Shell Pink-DK	529	208	494	194	463	182
3722	Shell Pink-MD	78	30	73	28	68	26
3740	Antique Violet-DK	244	96	227	89	213	84
3750	Antique Blue-VY DK	14	5	13	5	12	5
3765	Peacock Blue-VY DK	14	5	13	5	12	5
3768	Gray Green-DK	49	19	46	17	43	16
3770	Tawny-VY LT	187	73	175	68	164	64
3772	Desert Sand-VY DK	645	253	602	236	564	222
3773	Desert Sand-MD	228	89	213	83	200	78
3774	Desert Sand-VY LT	208	82	194	76	182	71
3776	Mahogany-LT	41	15	38	14	35	14
3778	Terra Cotta-LT	24	9	22	8	21	8
3781	Mocha Brown-DK	620	244	578	227	542	213
3782	Mocha Brown-LT	653	257	610	240	572	225
3787	Brown Gray-DK	1009	397	942	371	883	348

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3799	Pewter Gray-VY DK	1082	426	1010	397	947	372
3802	Antique Mauve-VY DK	629	248	587	231	551	217
3803	Mauve-MD	44	17	41	16	38	15
3807	Cornflower Blue	4	1	4	1	3	1
3815	Celadon Green-DK	74	29	69	27	65	25
3820	Straw-DK	62	24	58	22	54	21
3822	Straw-LT	17	6	16	6	15	6
3828	Hazelnut Brown	1499	590	1399	551	1312	516
3829	Old Gold-VY DK	344	135	321	126	301	118
3830	Terra Cotta-MD	208	82	194	76	182	71
3834	Grape-DK	618	243	577	227	541	213
3849	Teal Green-LT	26	10	25	10	23	9
3852	Straw-VY DK	109	42	102	40	96	37
3853	Autumn Gold-DK	12	5	11	4	10	4
3855	Autumn Gold-LT	15	6	14	5	13	5
3856	Mahogany-UL VY LT	143	56	133	52	125	49
3862	Mocha Beige-DK	5143	2024	4800	1889	4500	1771
3863	Mocha Beige-MD	1972	776	1840	724	1725	679
3864	Mocha Beige-LT	1632	642	1523	599	1428	562



	10	20	30	40	50
10	...	...	...	...	...
20	...	...	...	...	...
30	...	...	...	...	...
40	...	...	...	...	...
50	...	...	...	...	...
60	...	...	...	...	...
70	...	...	...	...	...

	60	70	80	90	100
10	...	...	...	...	...
20	...	...	...	...	...
30	...	...	...	...	...
40	...	...	...	...	...
50	...	...	...	...	...
60	...	...	...	...	...
70	...	...	...	...	...

(20)

	160										170										180										190										200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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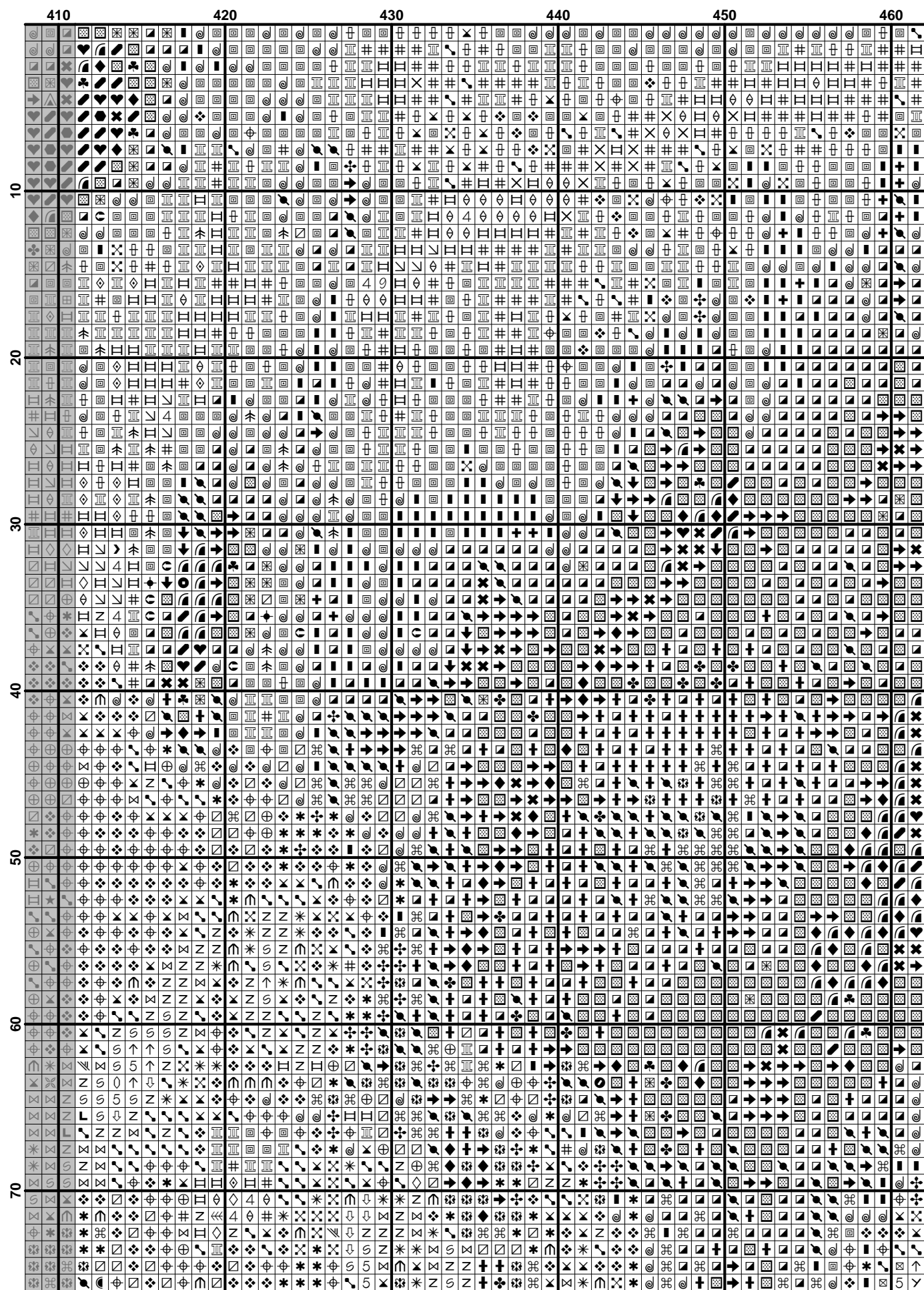
	210	220	230	240	250
10	...	...	...	...	...
20	...	...	...	...	...
30	...	...	...	...	...
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50	...	...	...	...	...
60	...	...	...	...	...
70	...	...	...	...	...

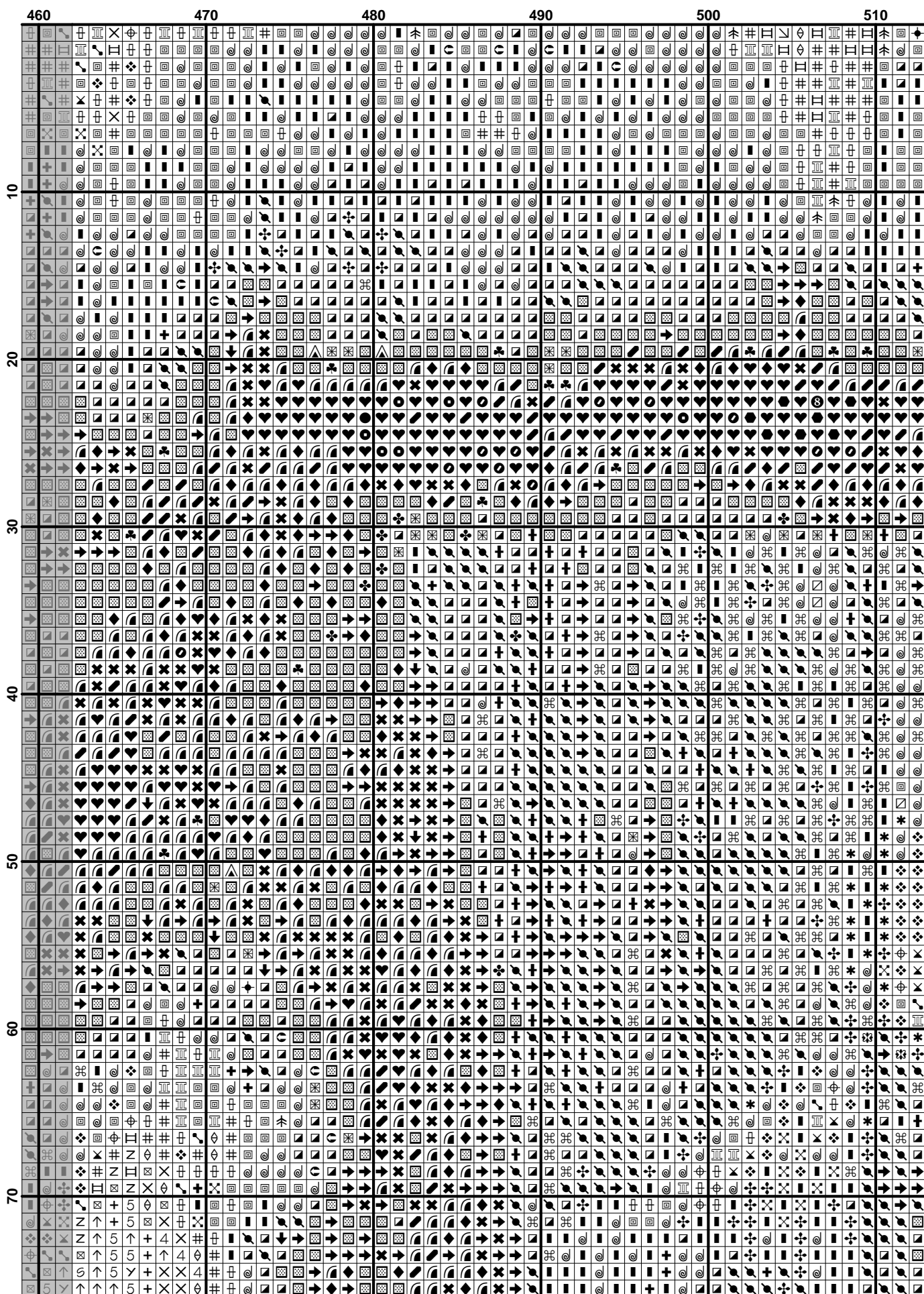
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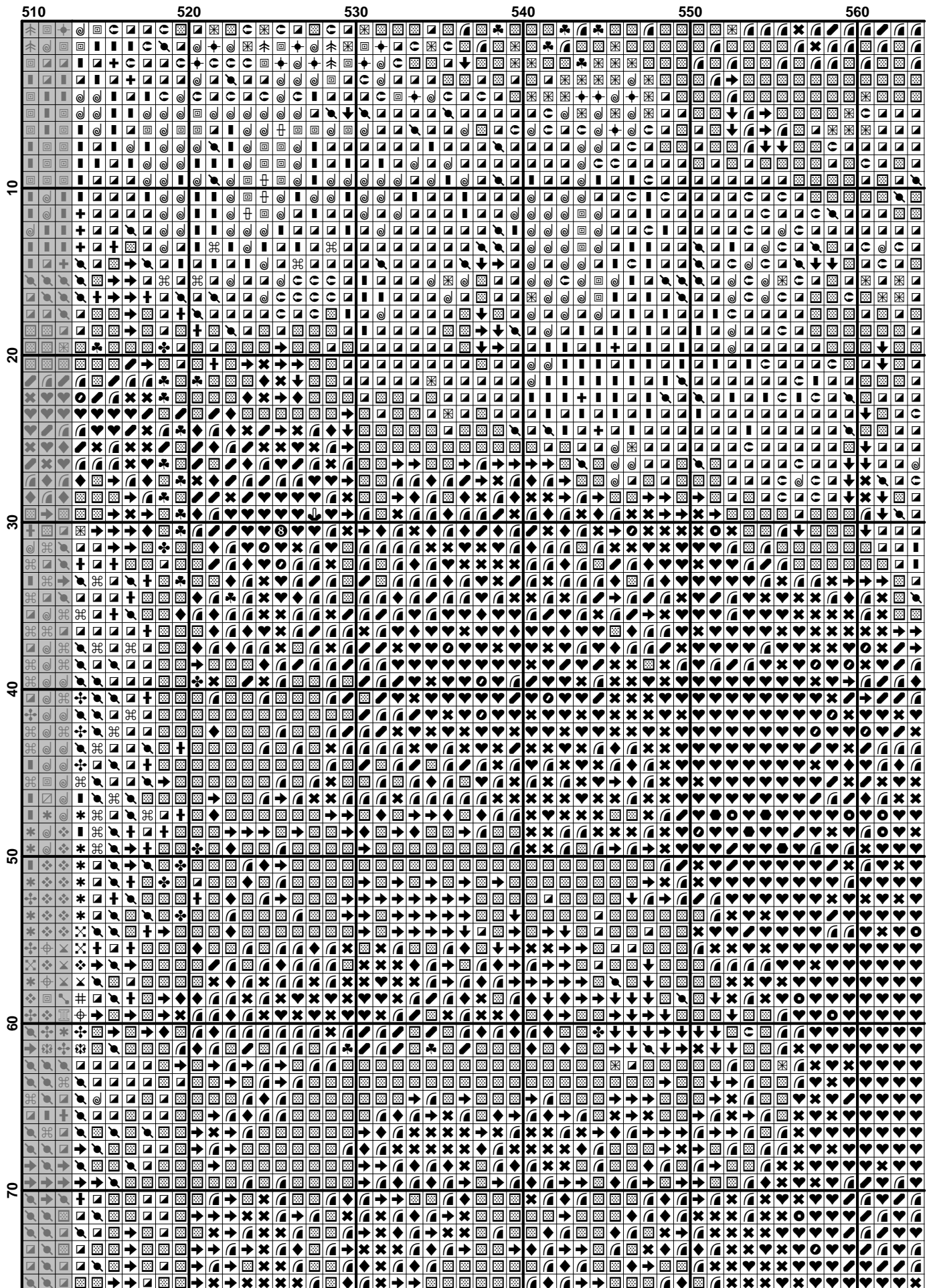
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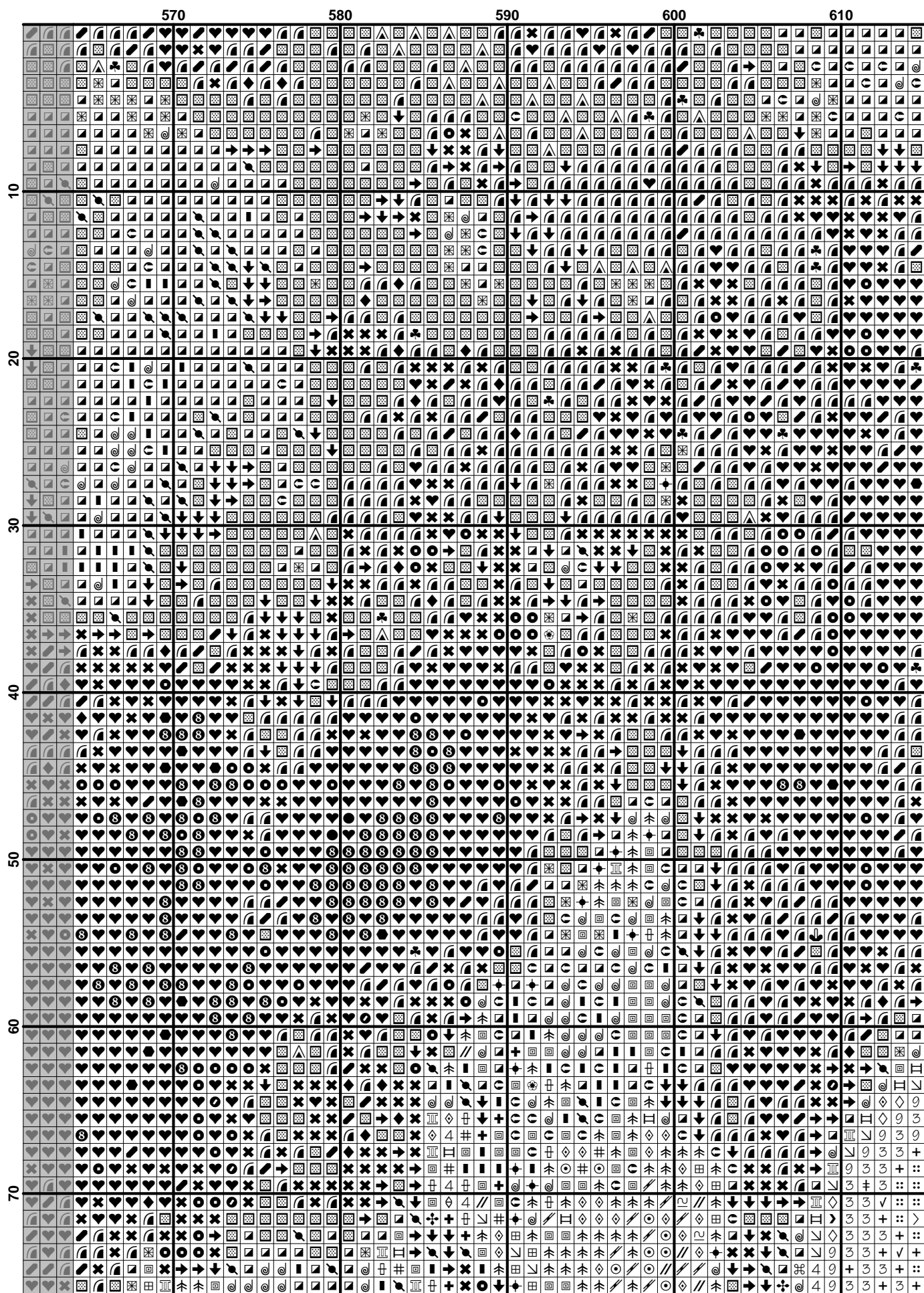


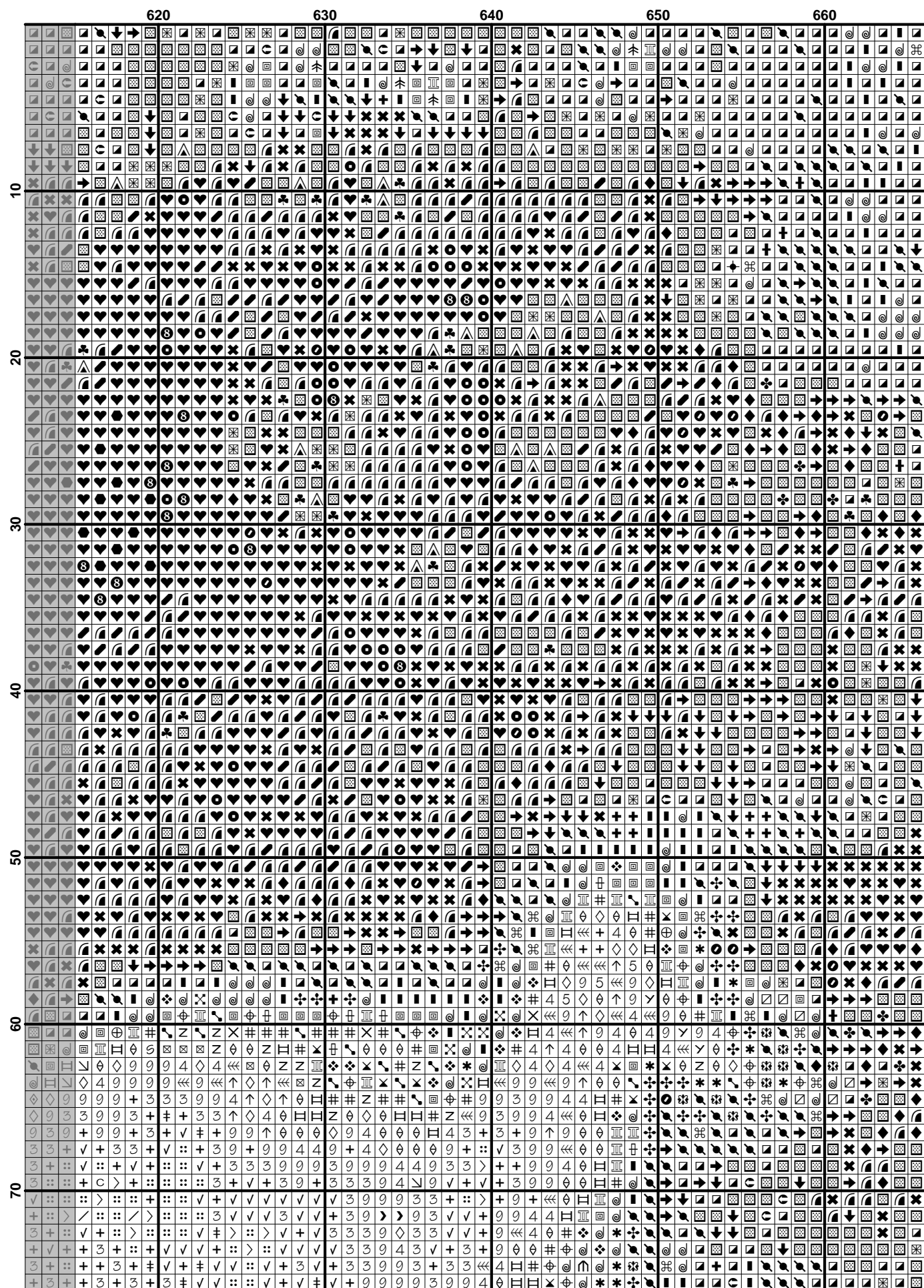
	360	370	380	390	400	410
10	...	...	...	...	...	...
20	...	...	...	...	...	...
30	...	...	...	...	...	...
40	...	...	...	...	...	...
50	...	...	...	...	...	...
60	...	...	...	...	...	...
70	...	...	...	...	...	...

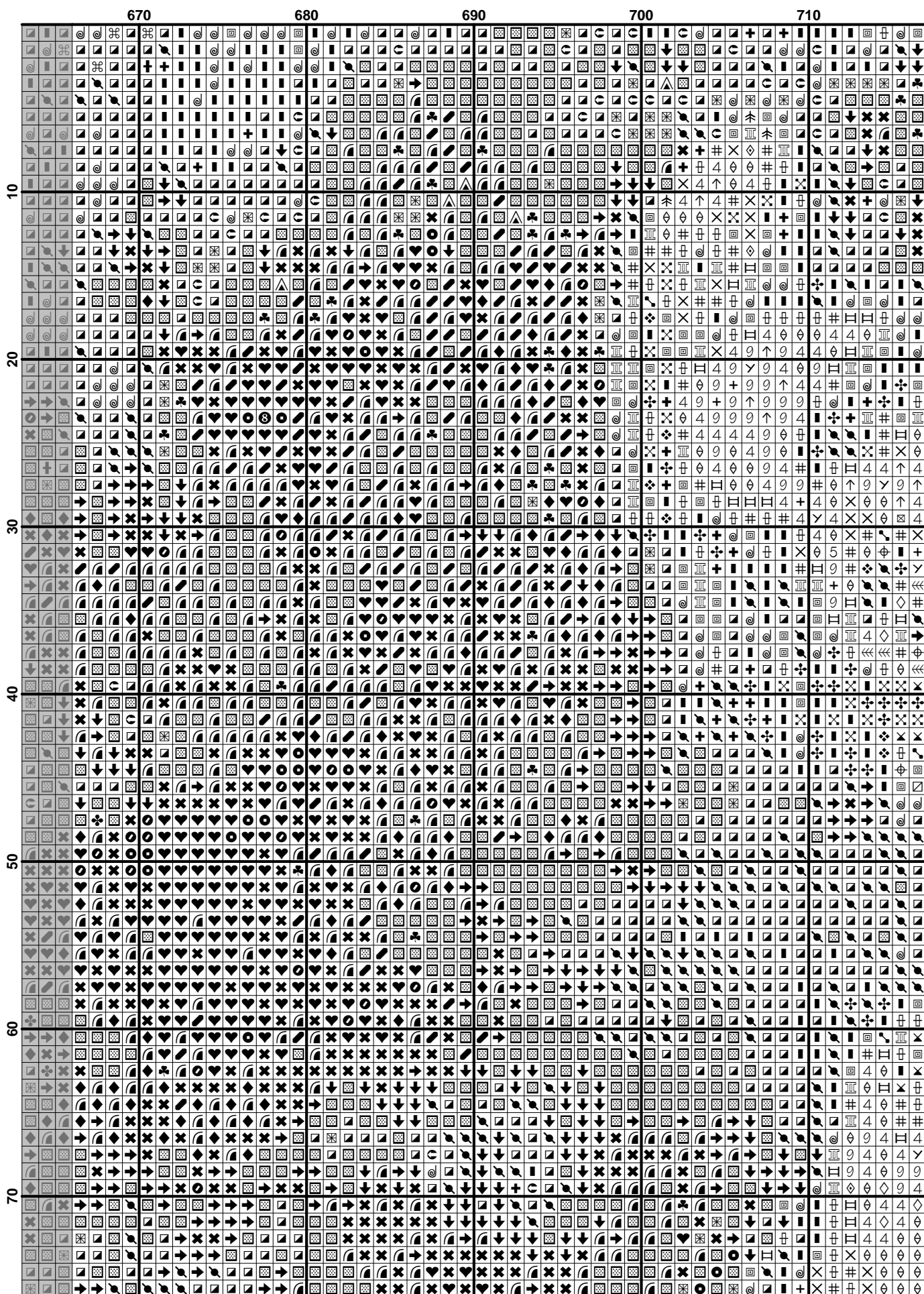




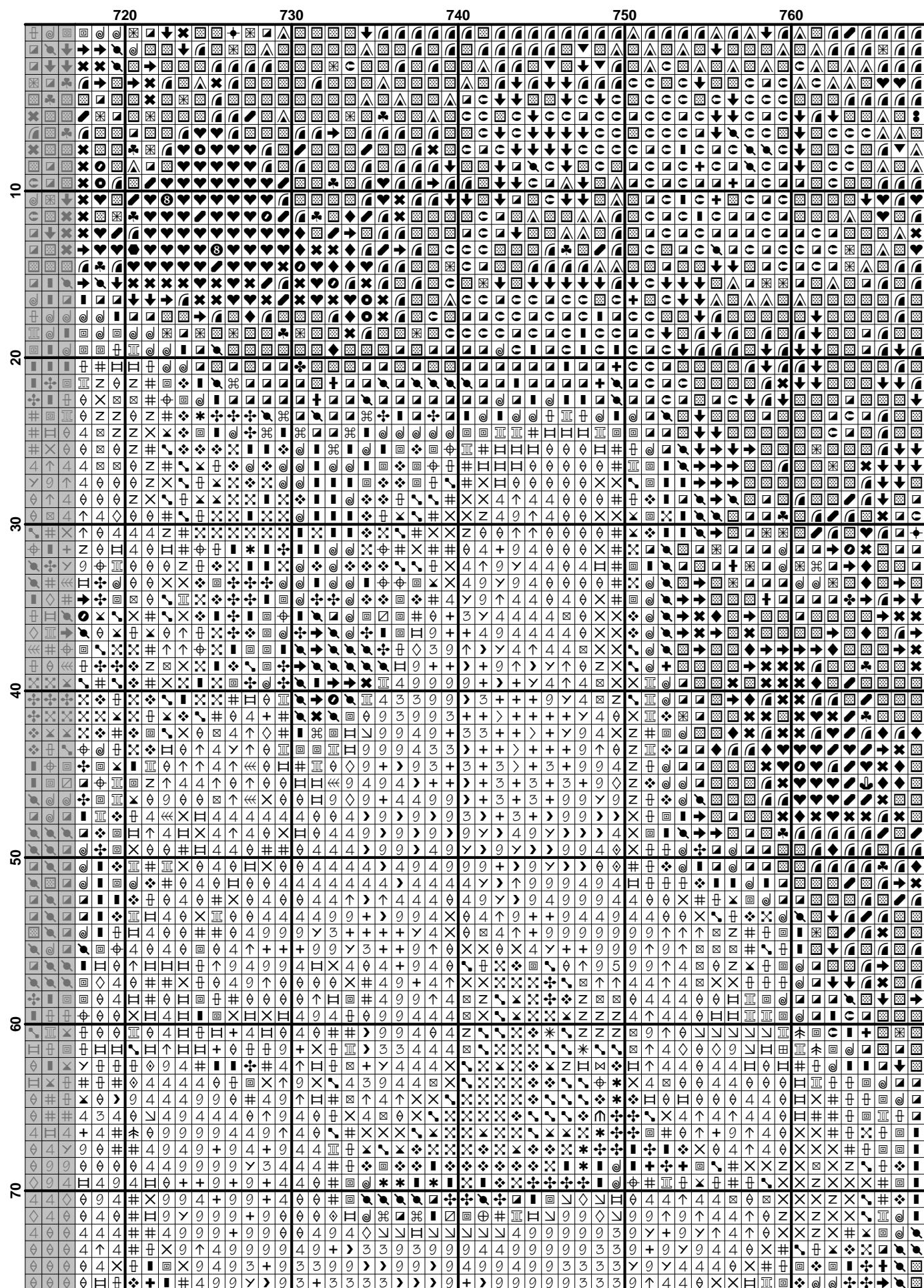


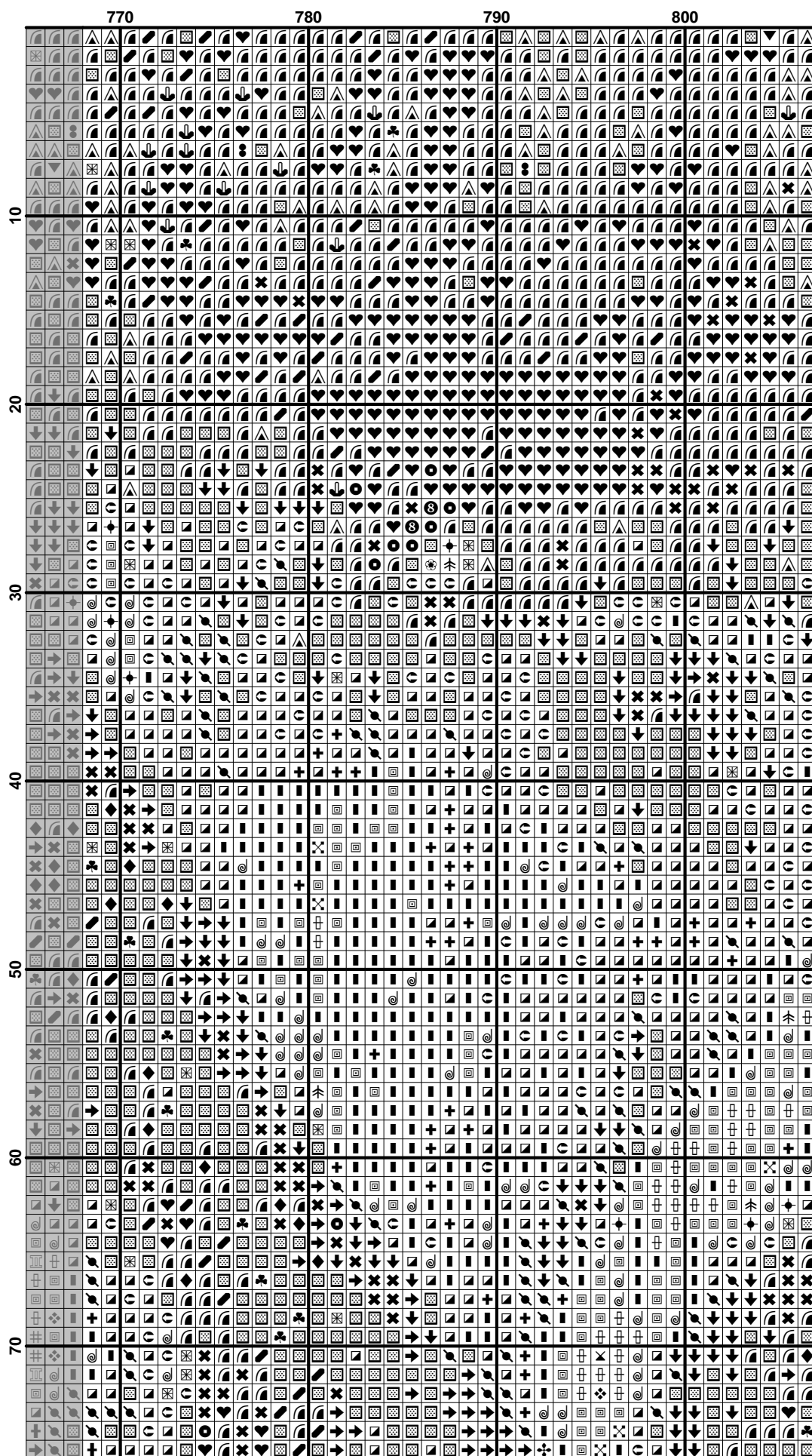












[illegible]

[illegible]

	110	120	130	140	150
80	...	...	...	...	...
90	...	...	...	...	...
100	...	...	...	...	...
110	...	...	...	...	...
120	...	...	...	...	...
130	...	...	...	...	...
140	...	...	...	...	...

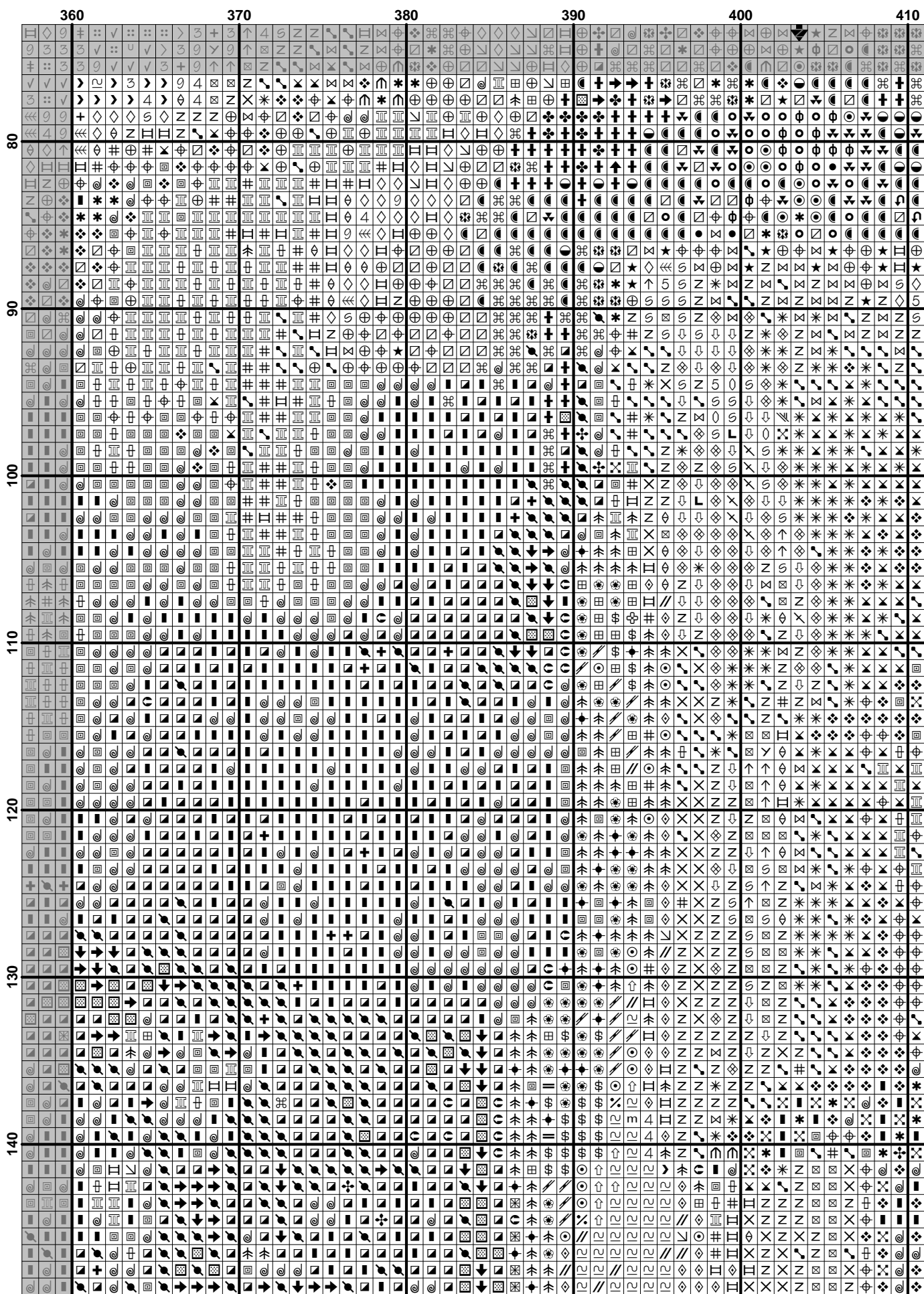
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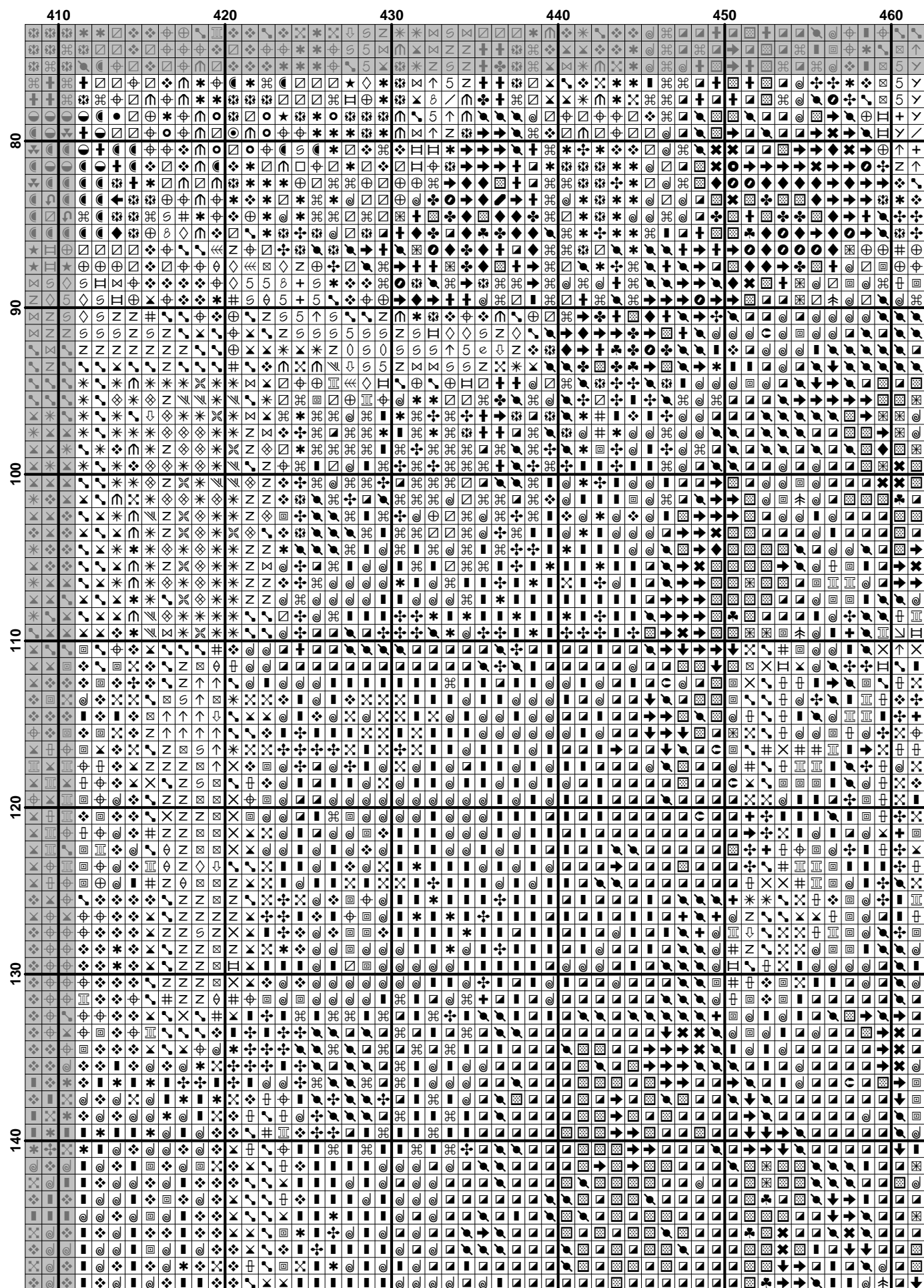
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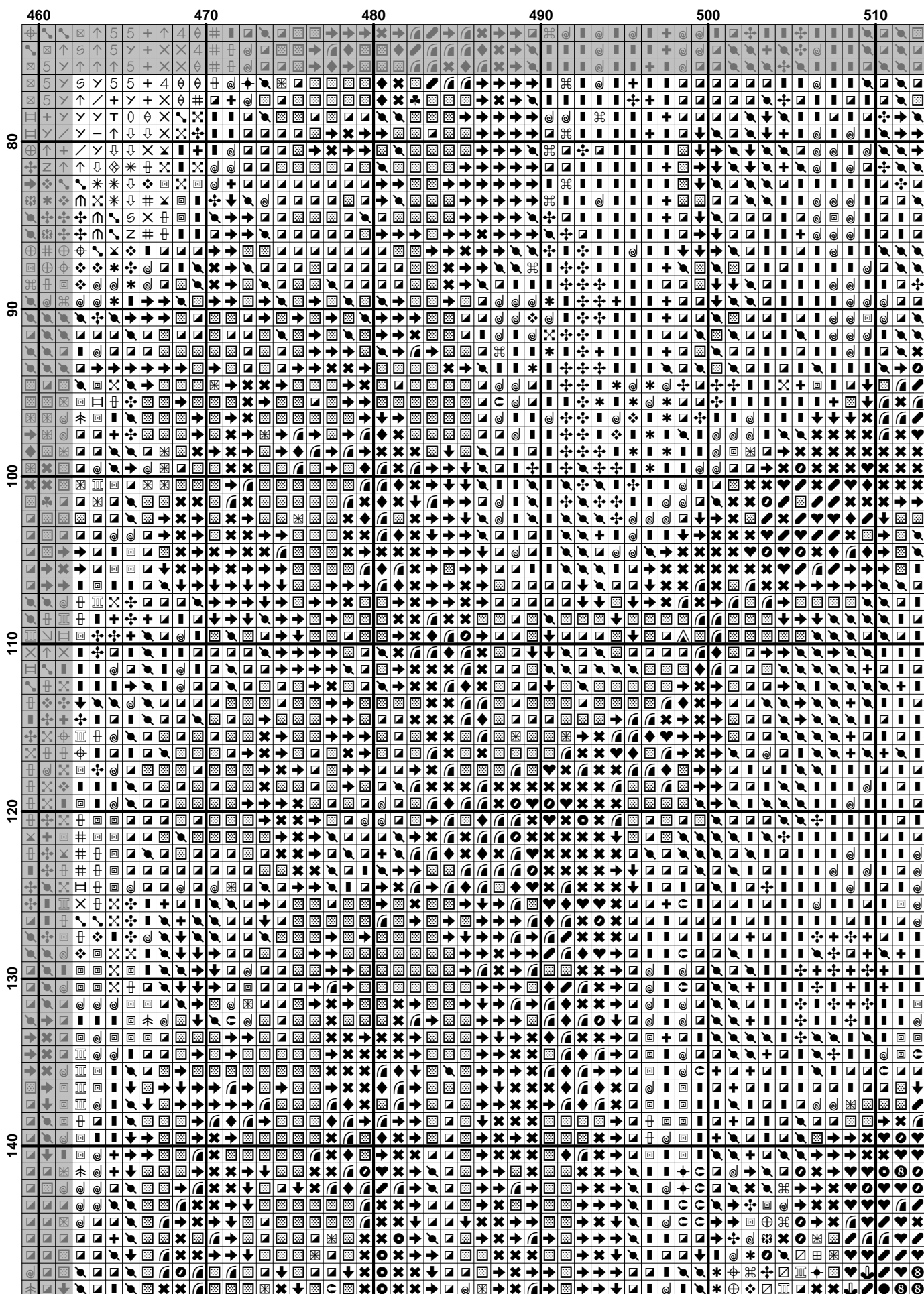


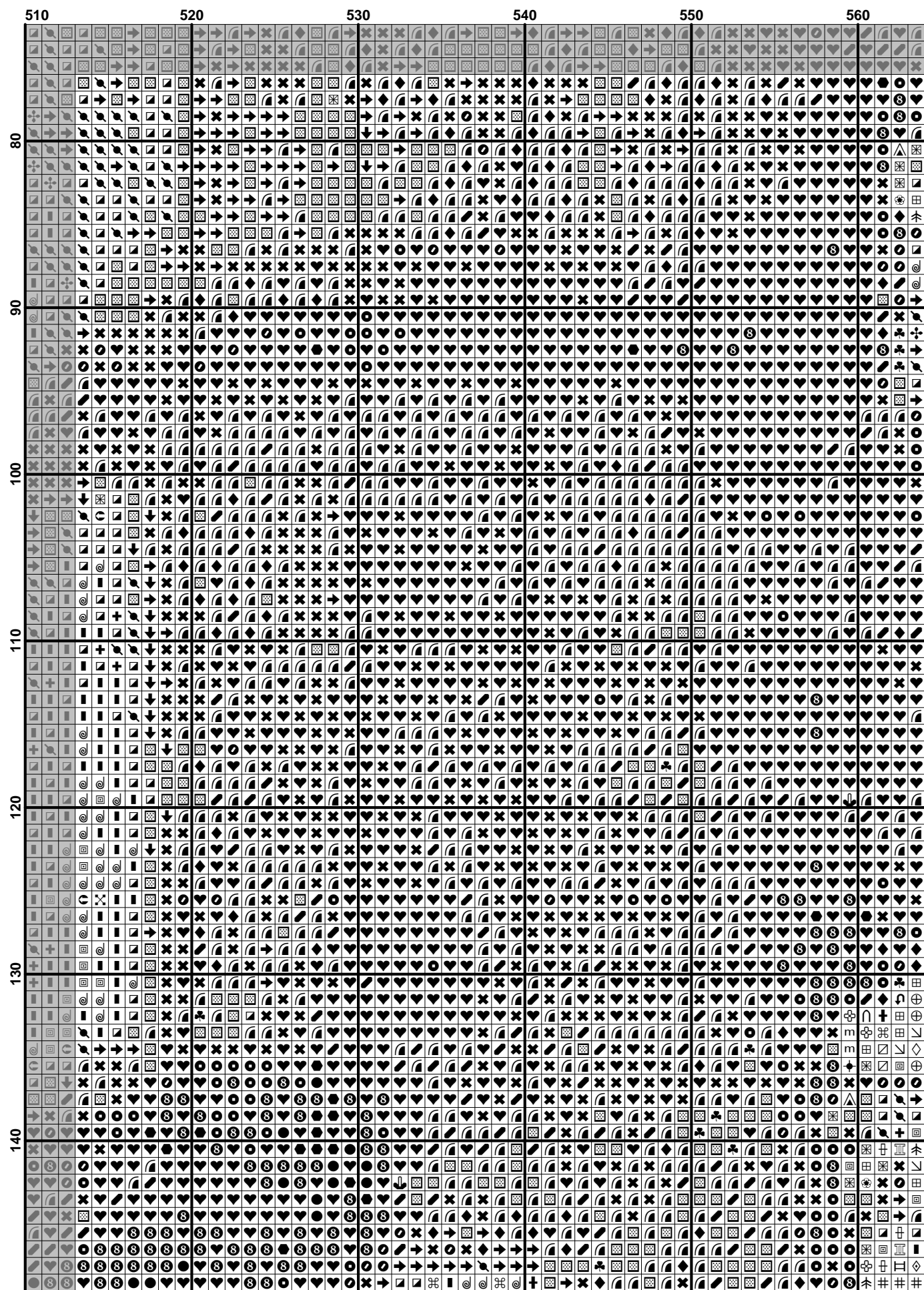
$$(38) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

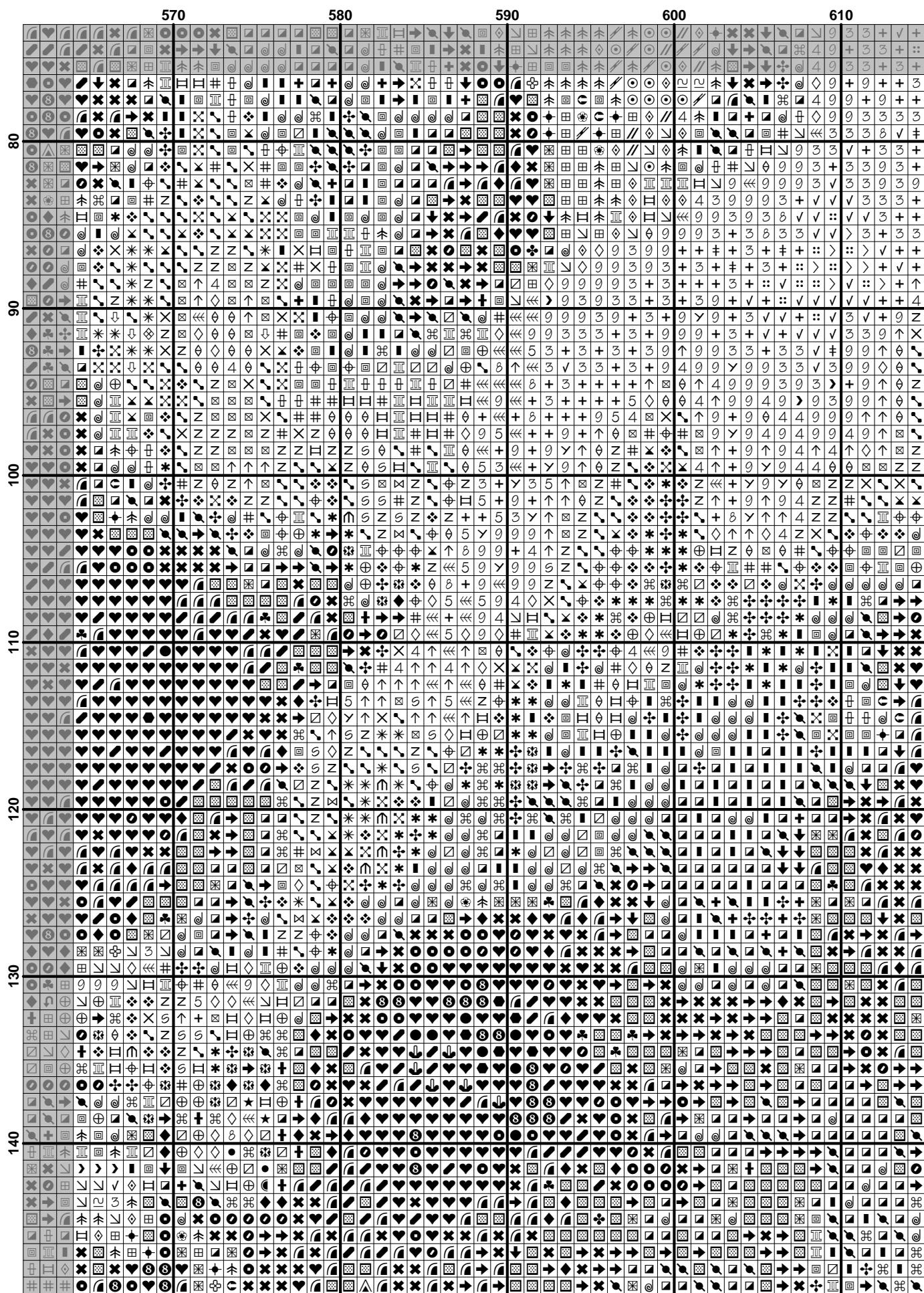
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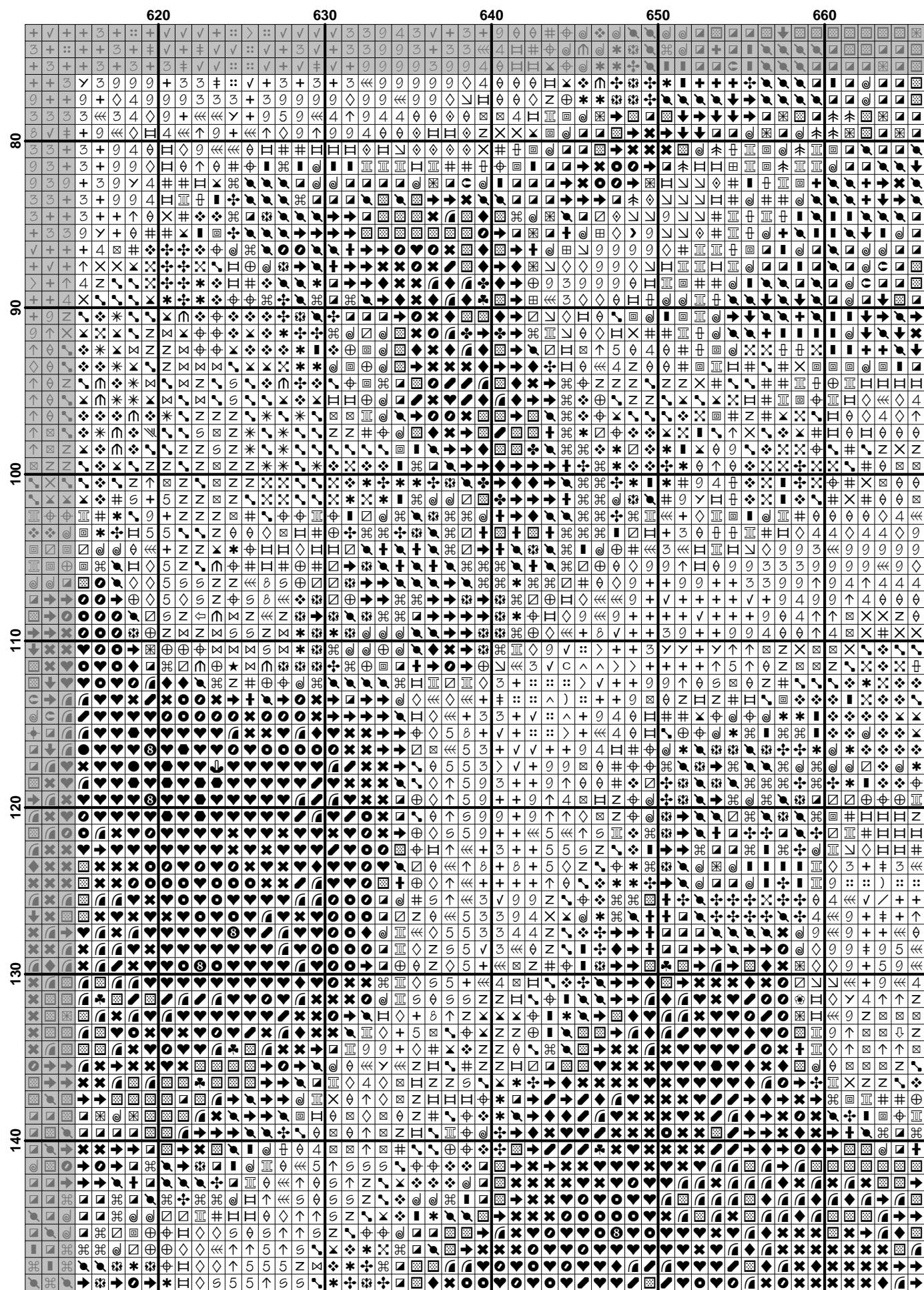






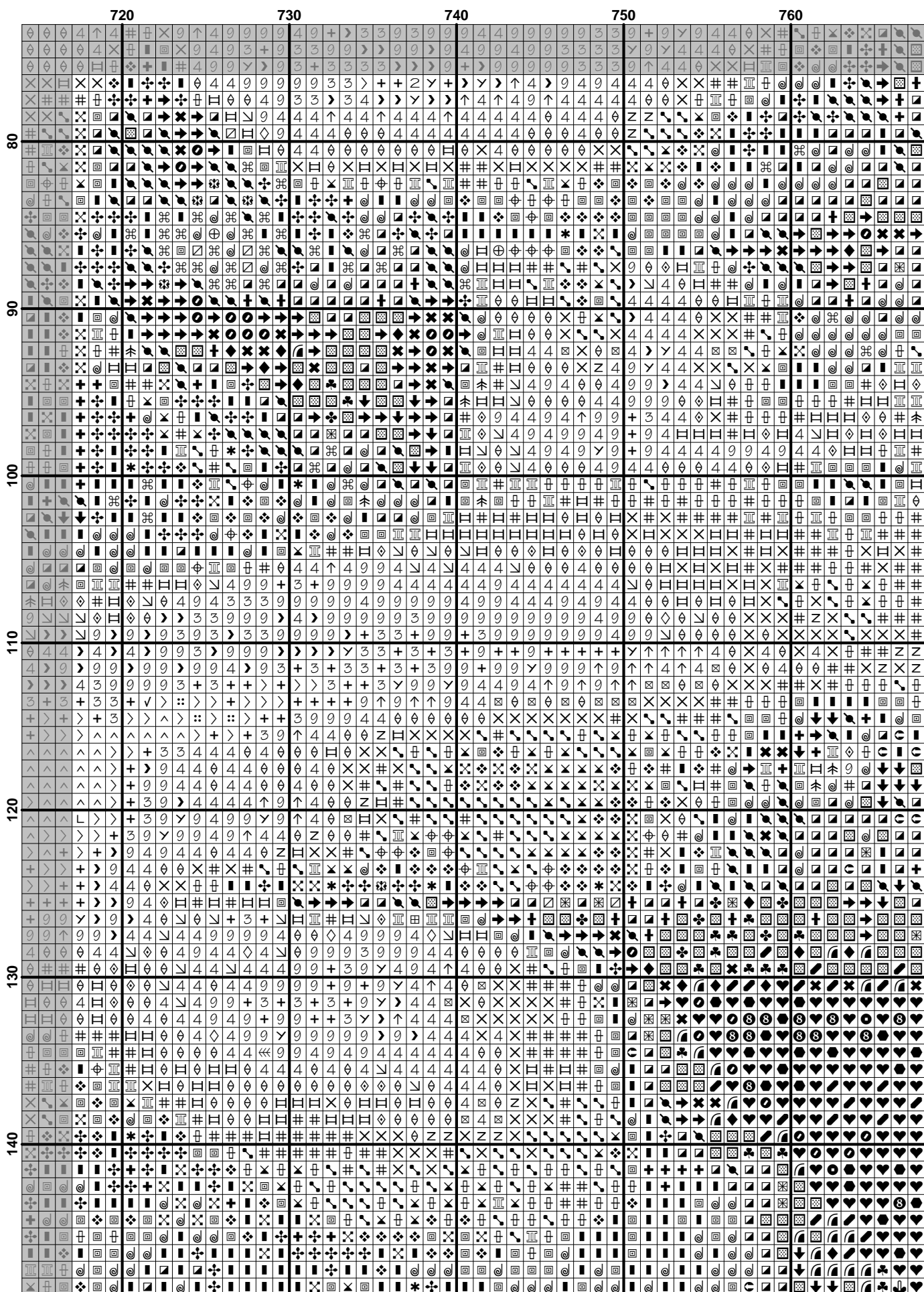


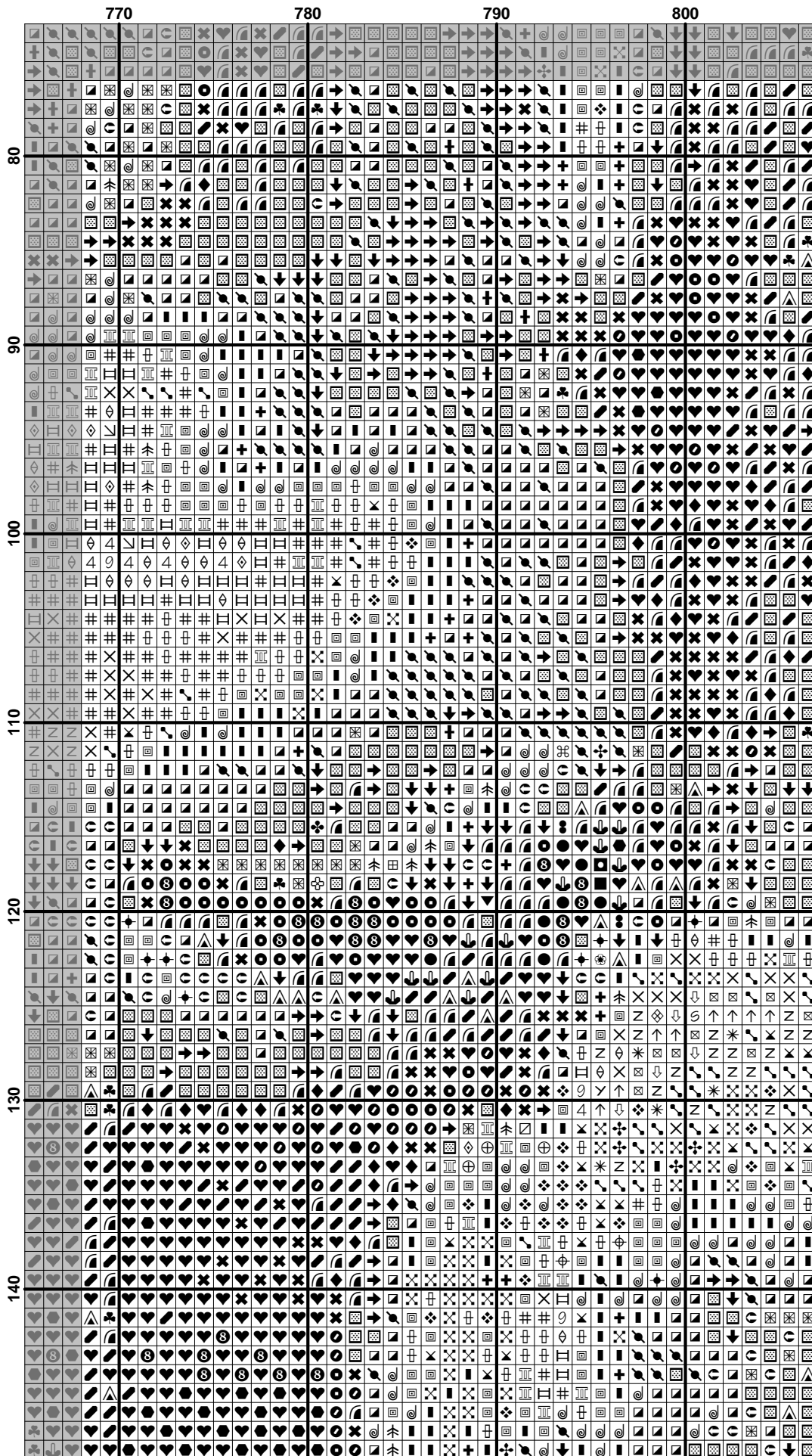






[illegible]





[illegible]

	60										70										80										90										100									
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170	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550
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	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650
	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700
	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750
180	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850
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	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950
	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
190	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050
	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100
	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150
	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	123																			

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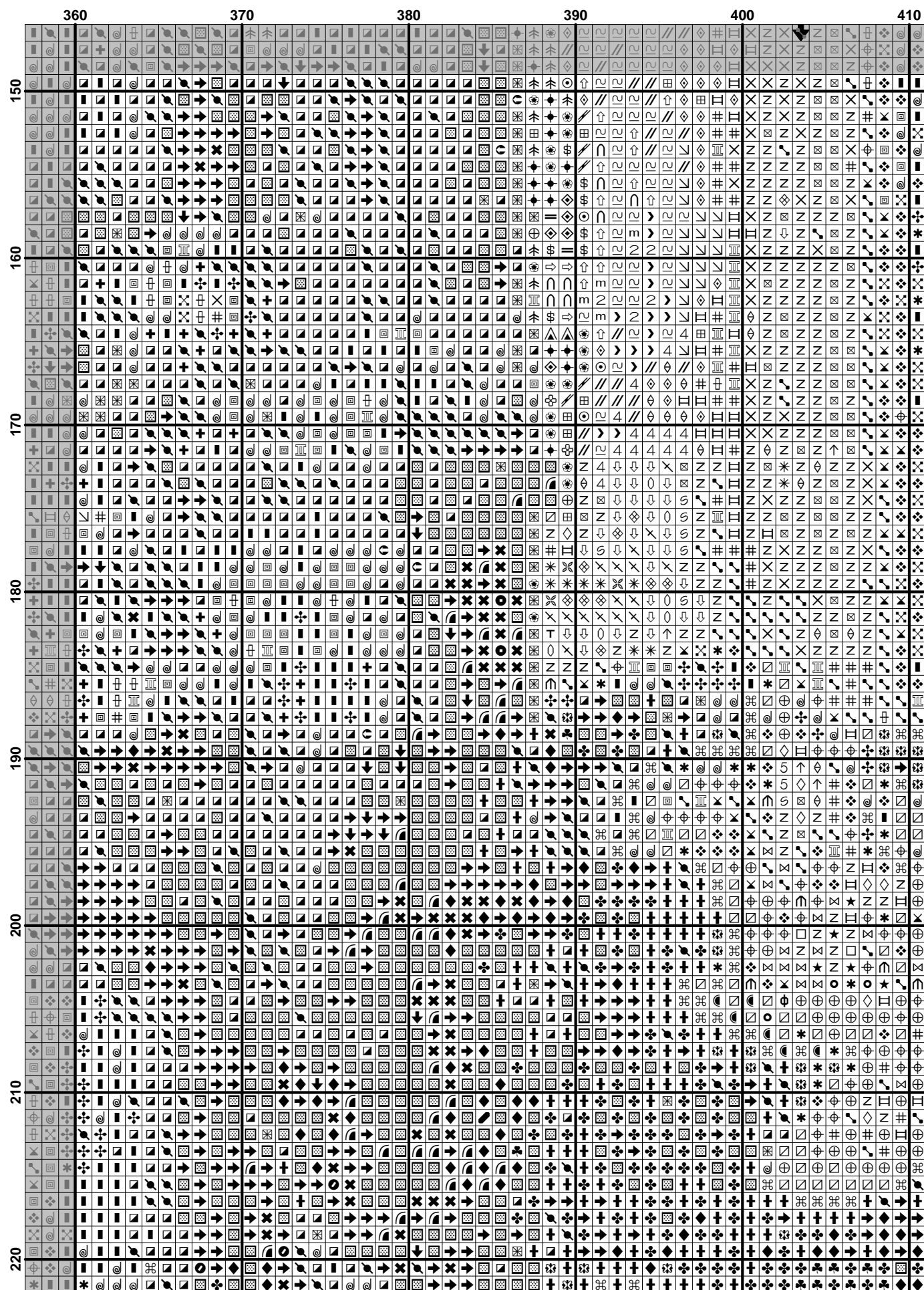
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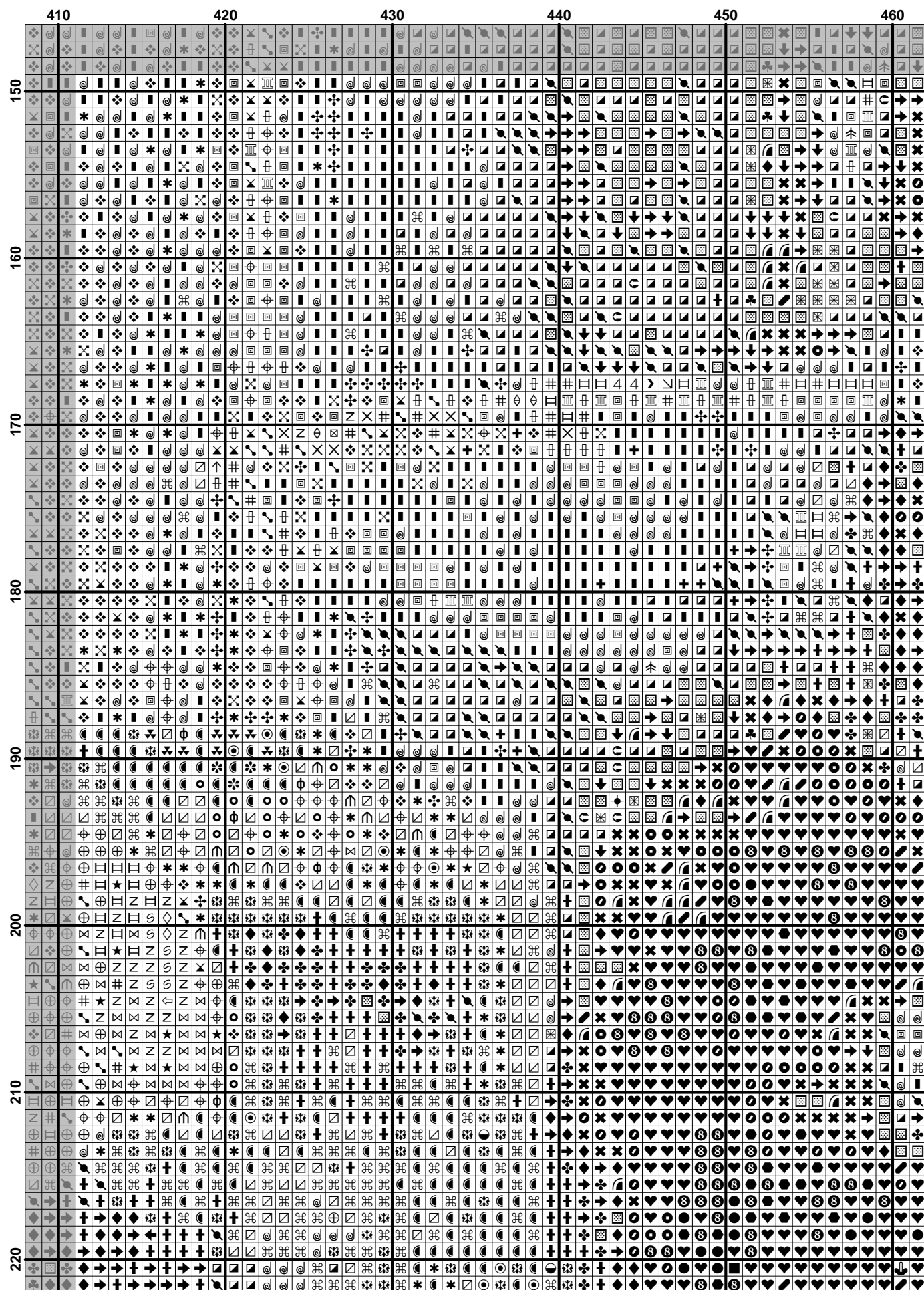
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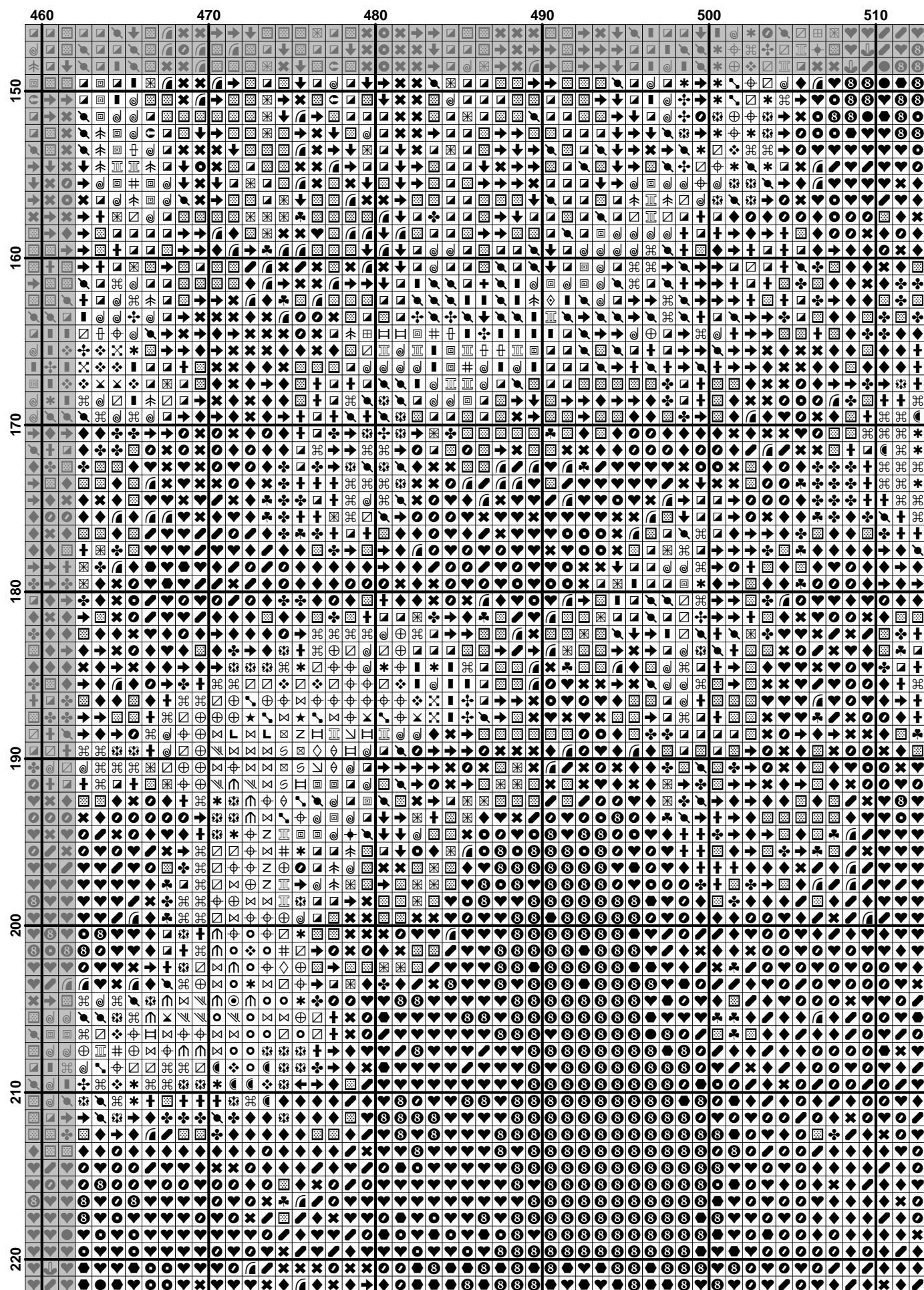


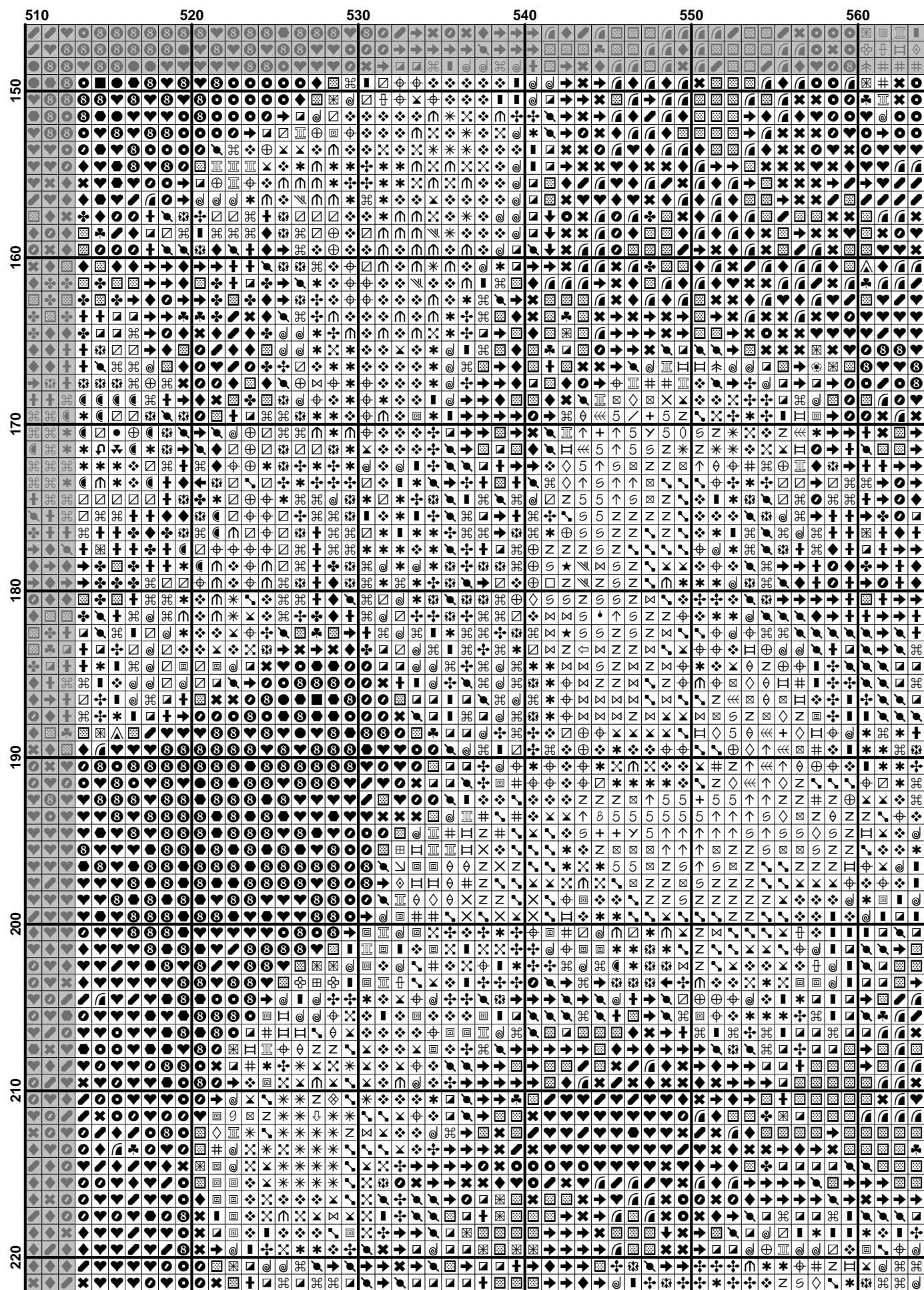
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150	##	##	##	##	##
160	##	##	##	##	##
170	##	##	##	##	##
180	##	##	##	##	##
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200	##	##	##	##	##
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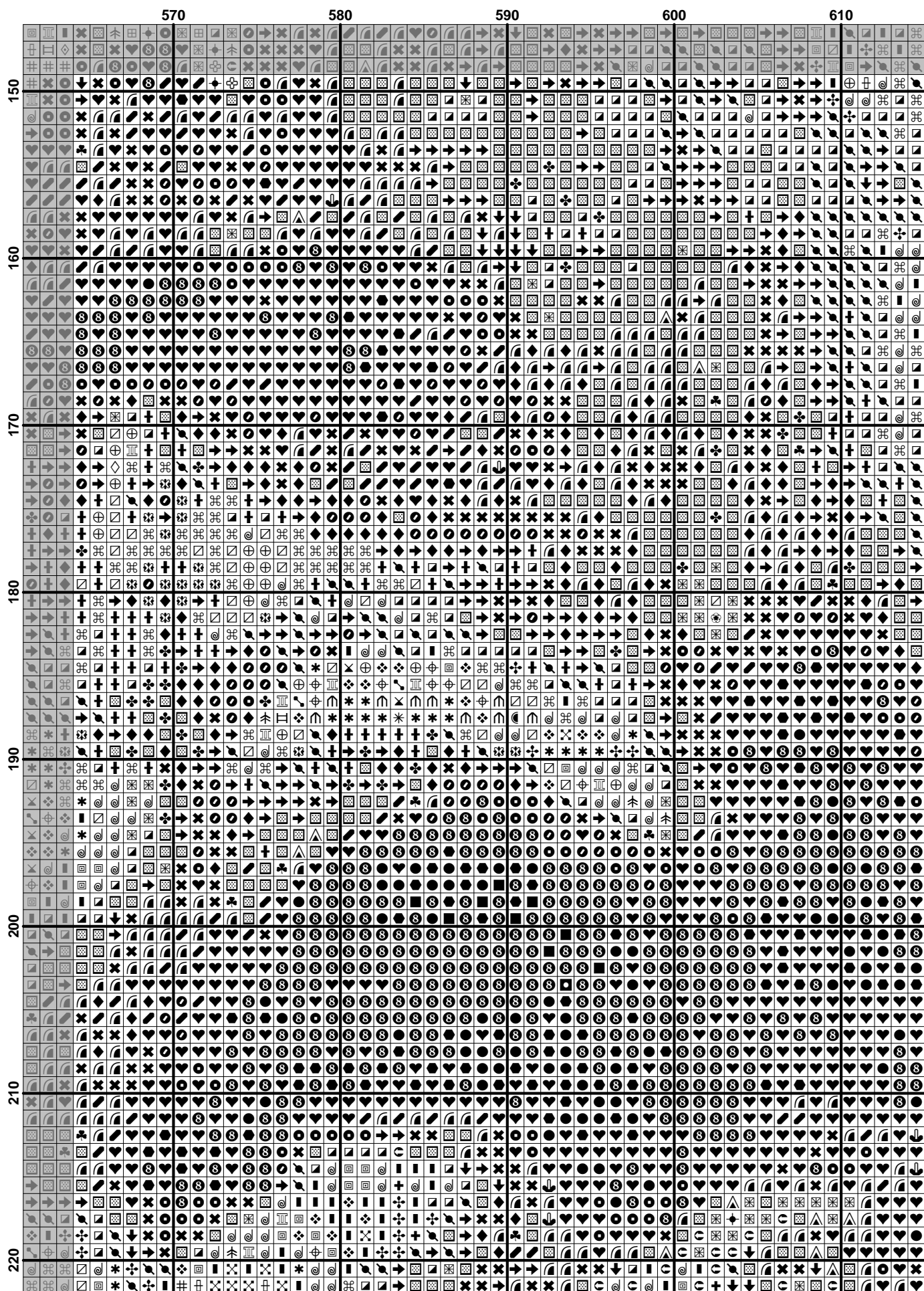
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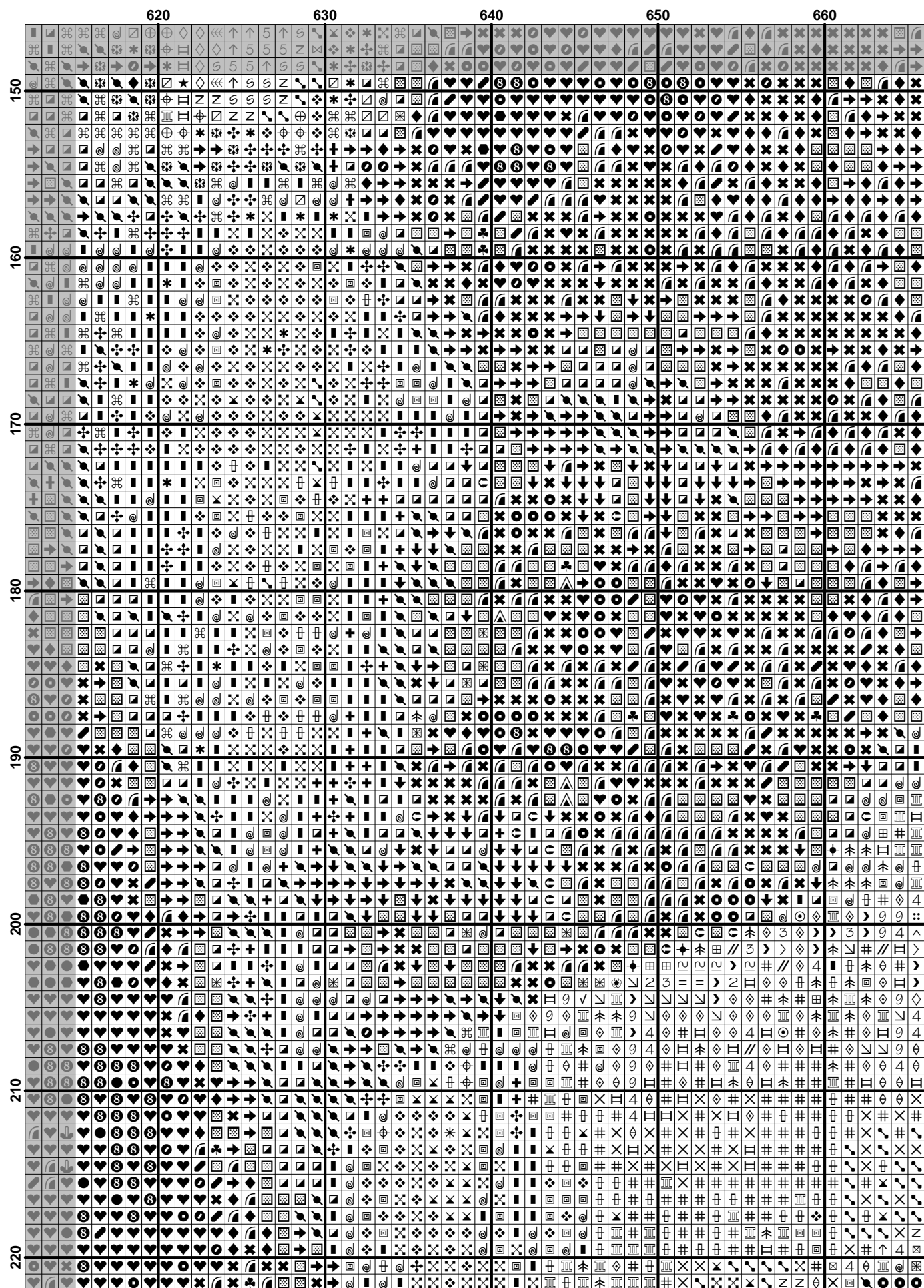




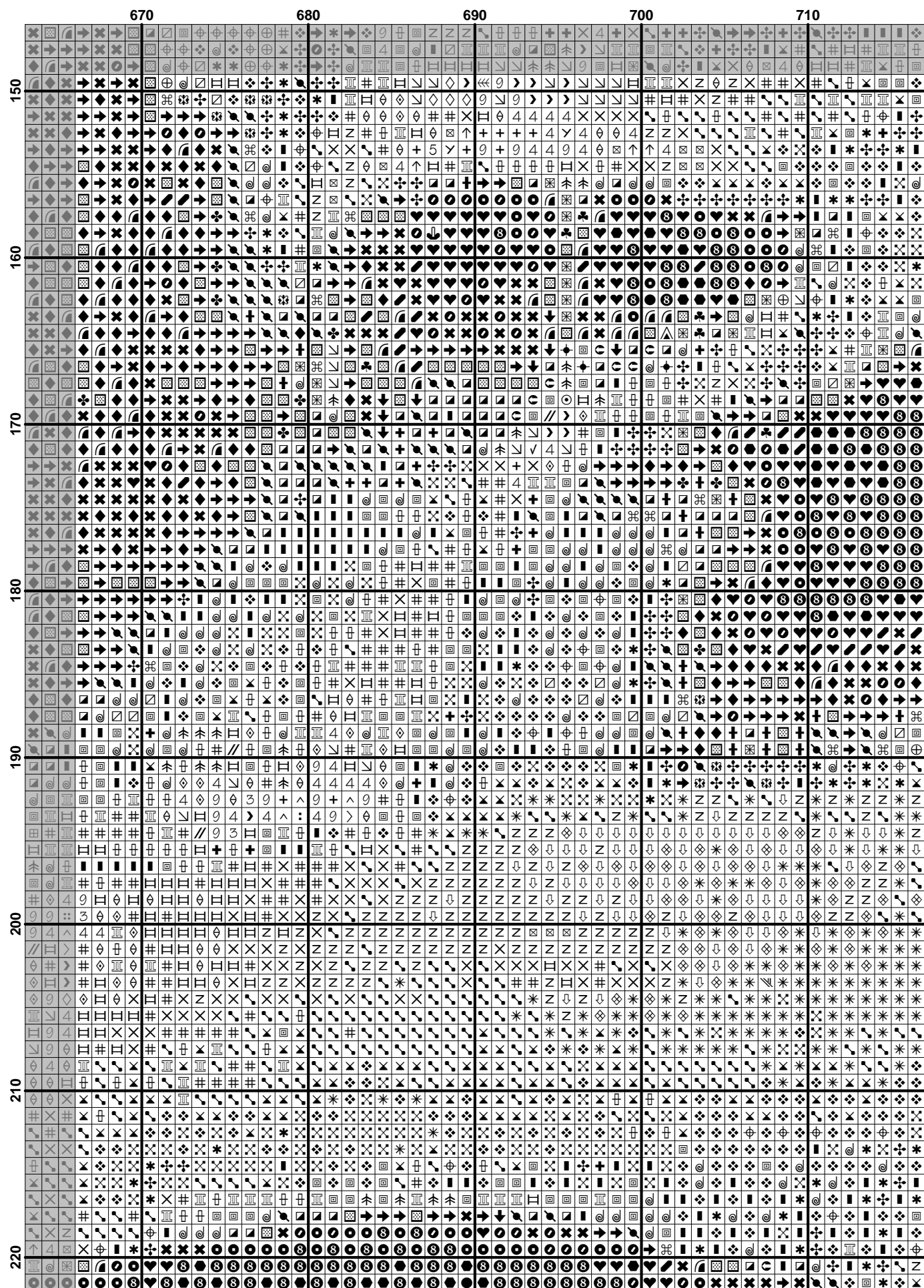


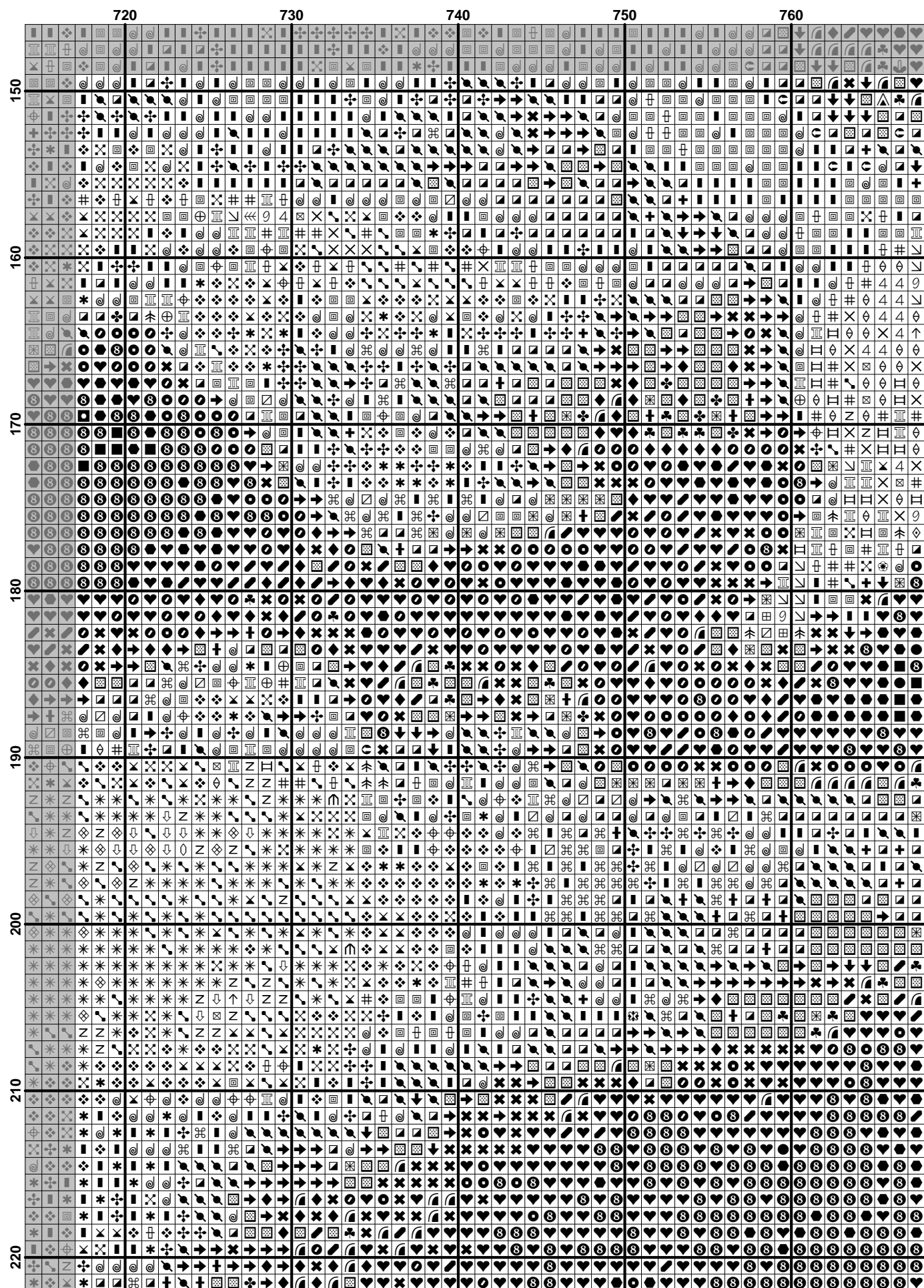


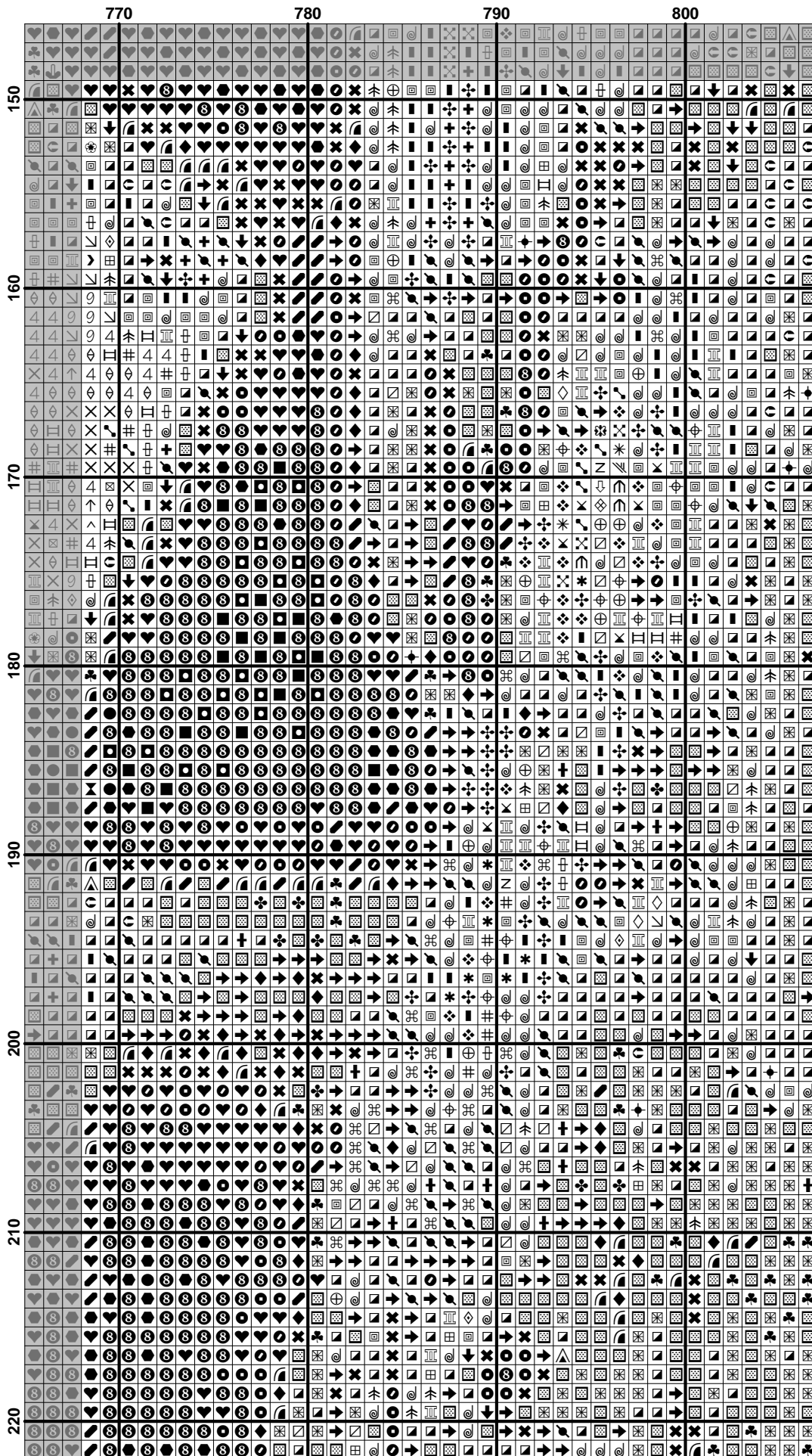


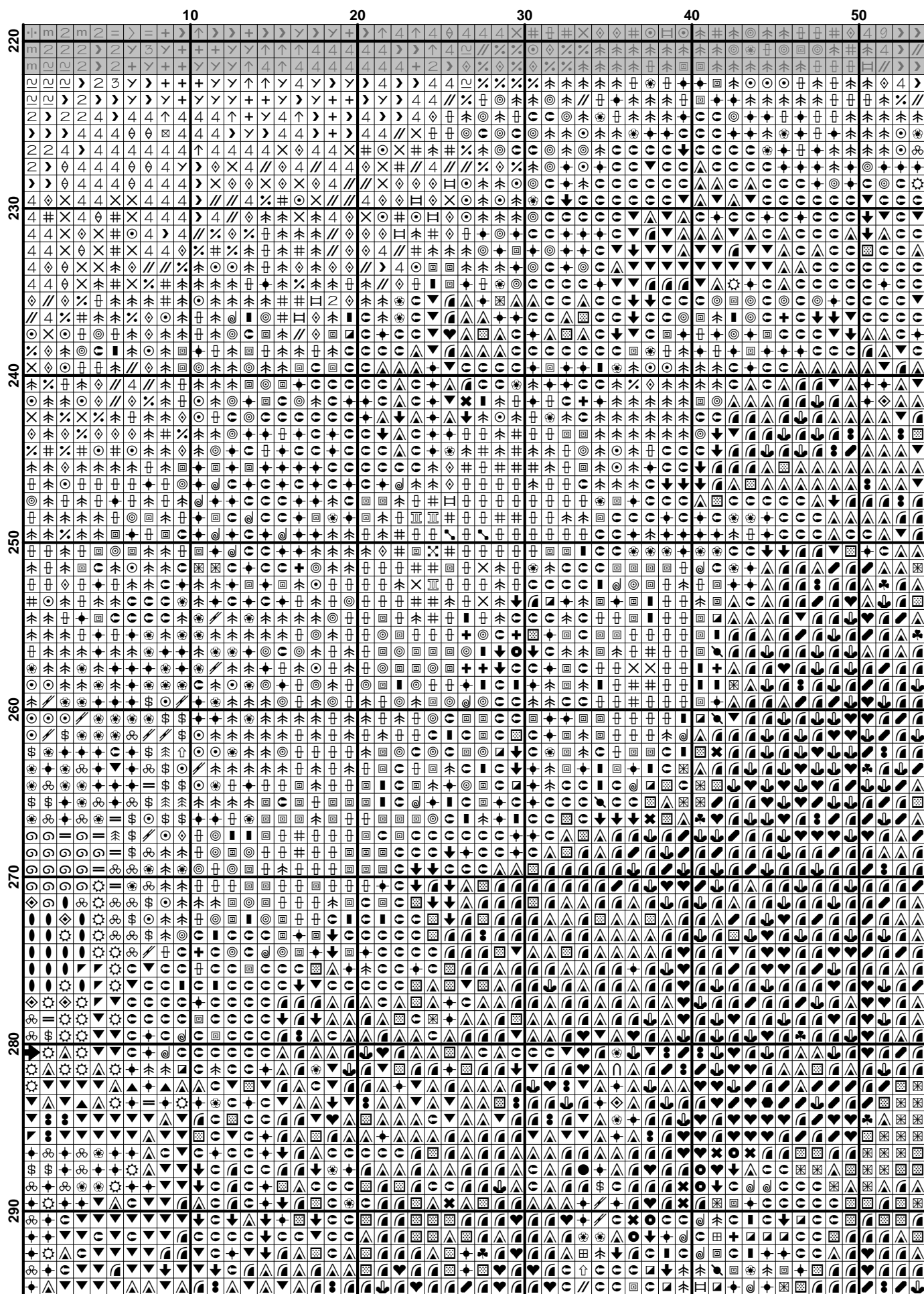


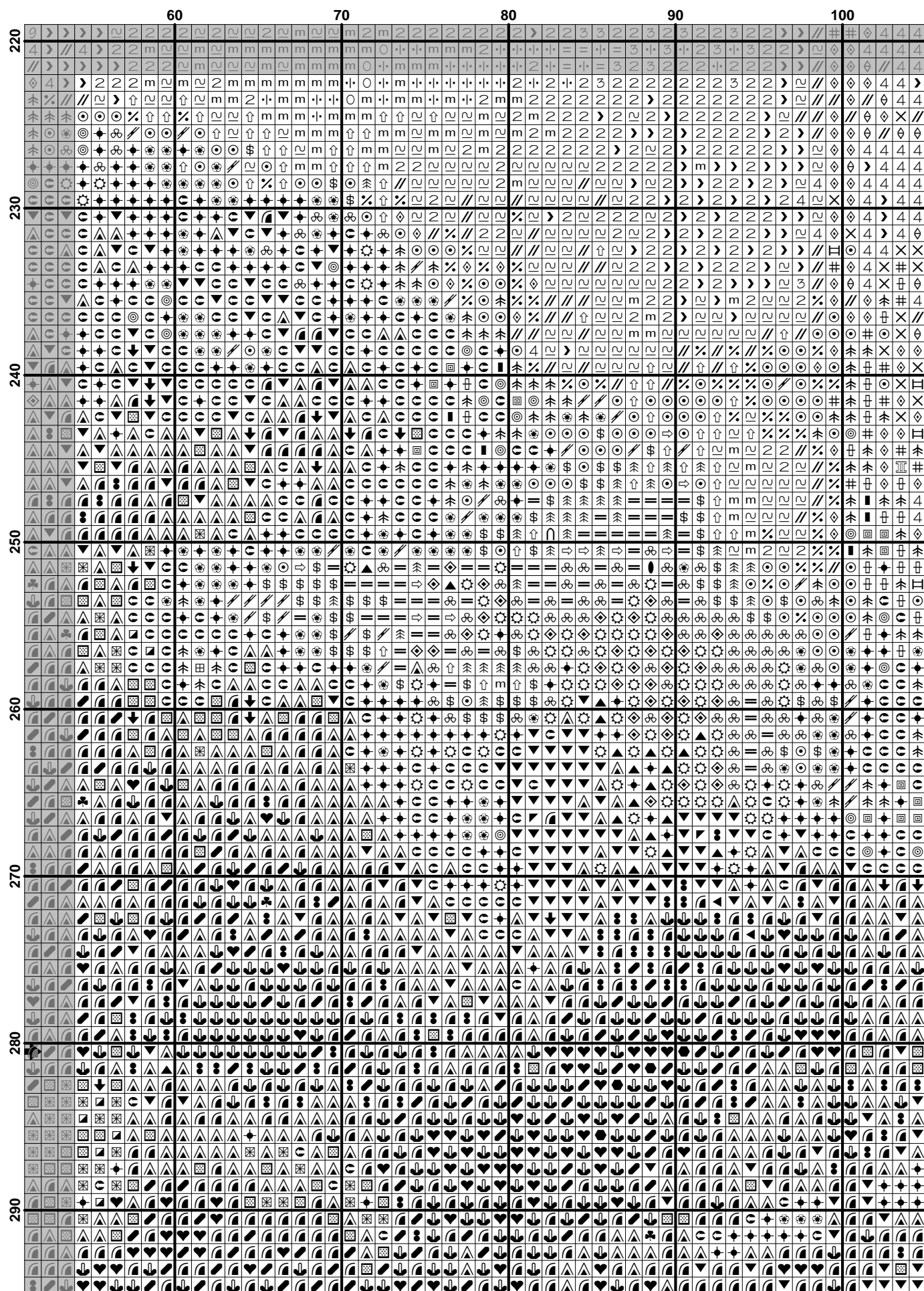




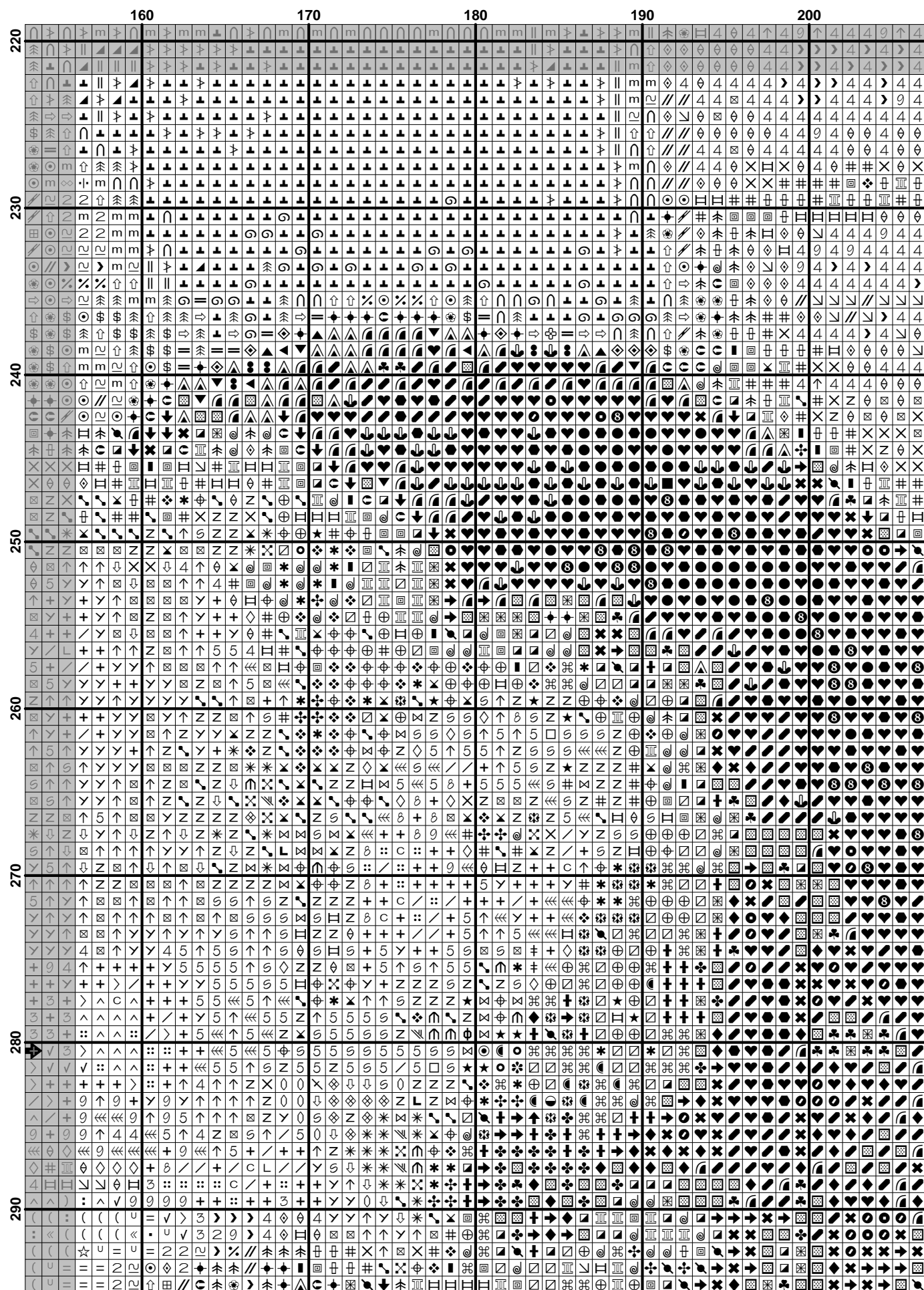








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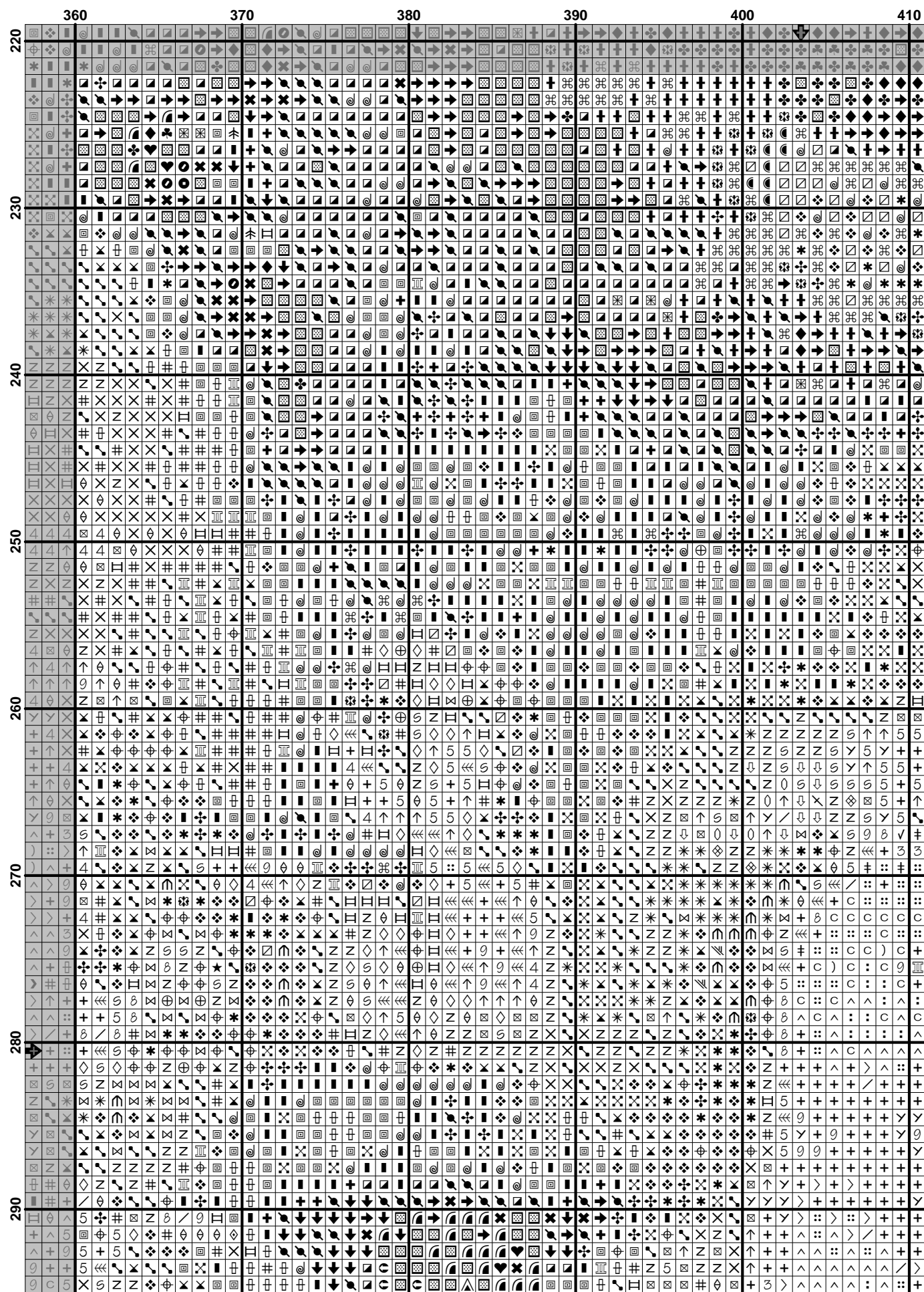


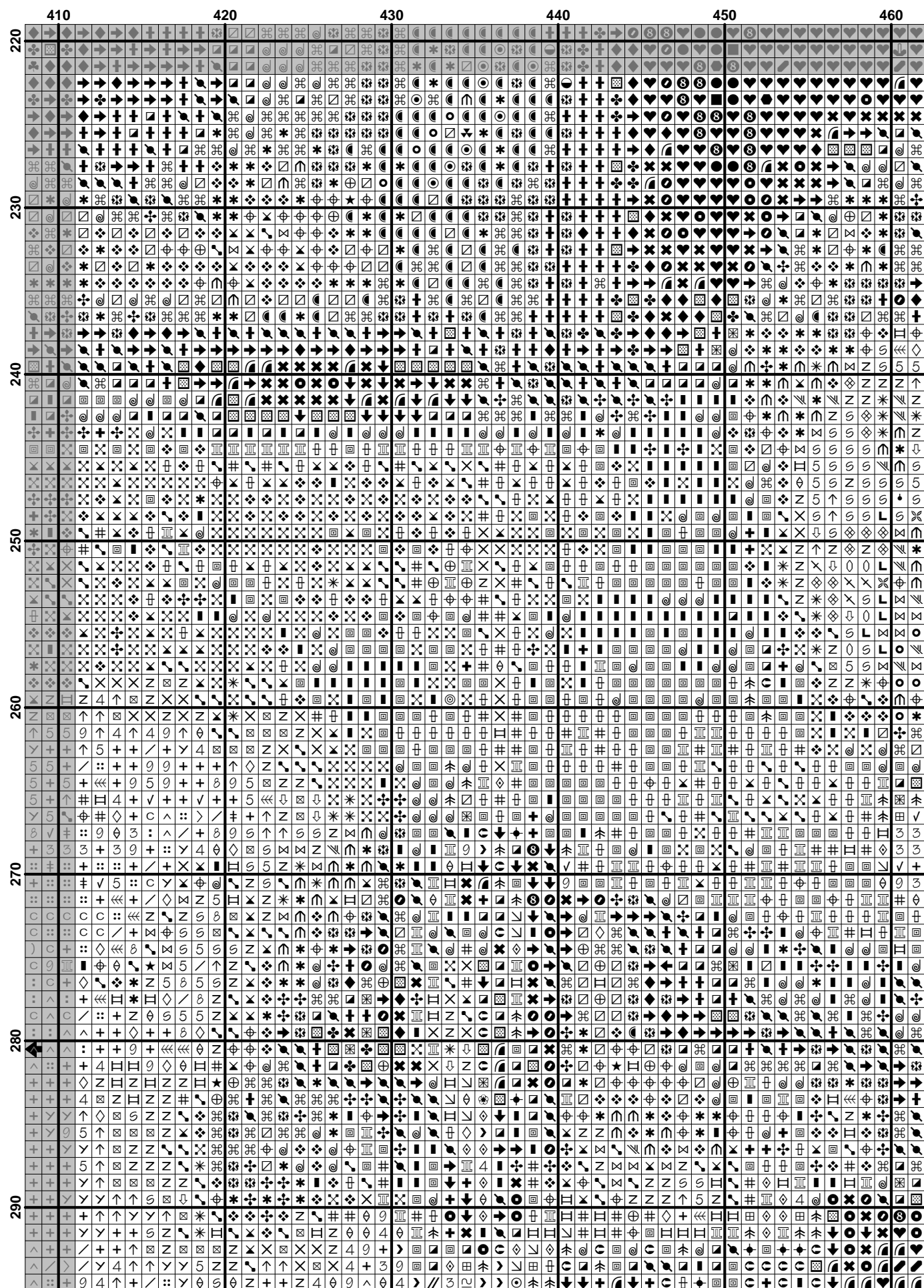
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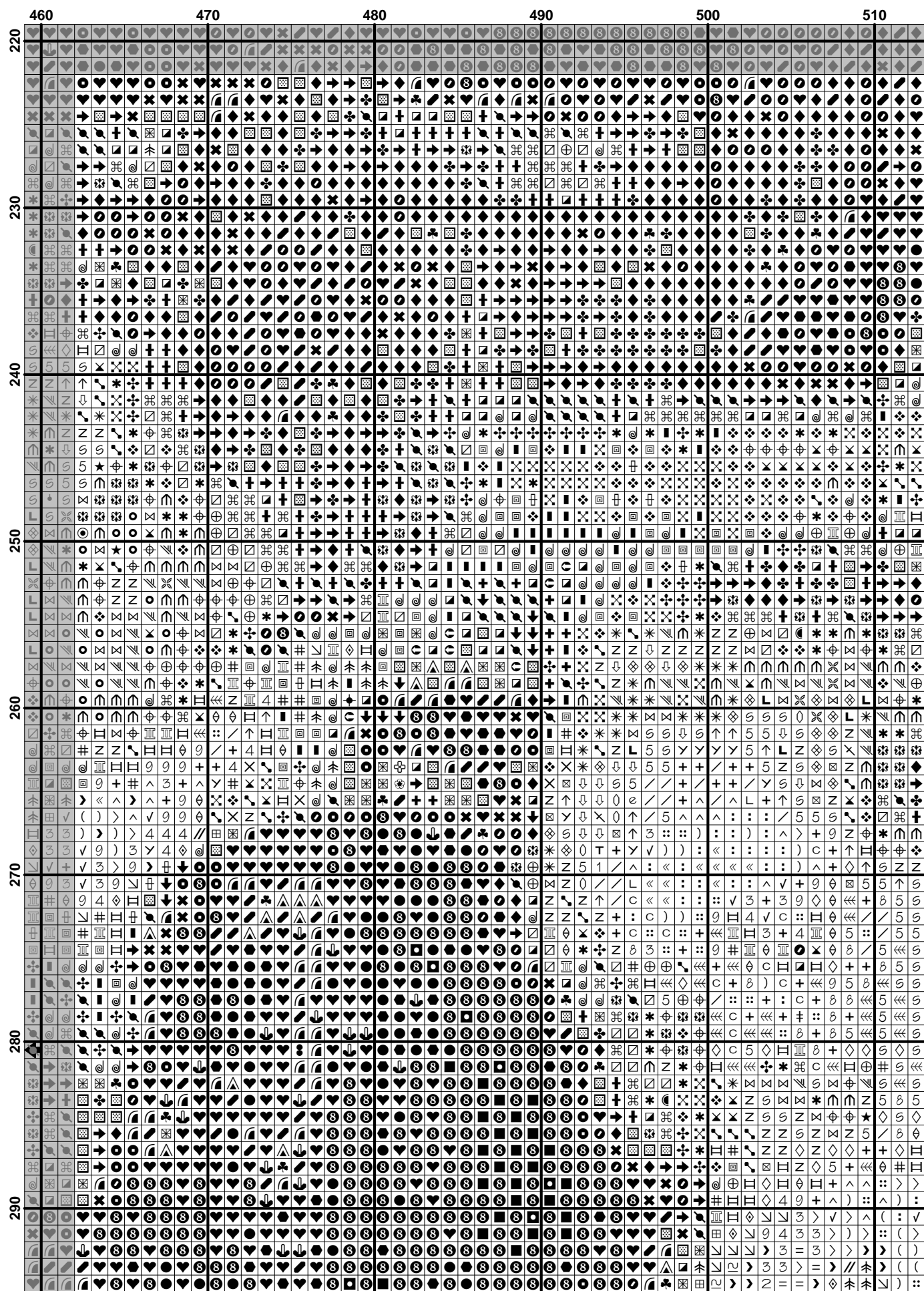


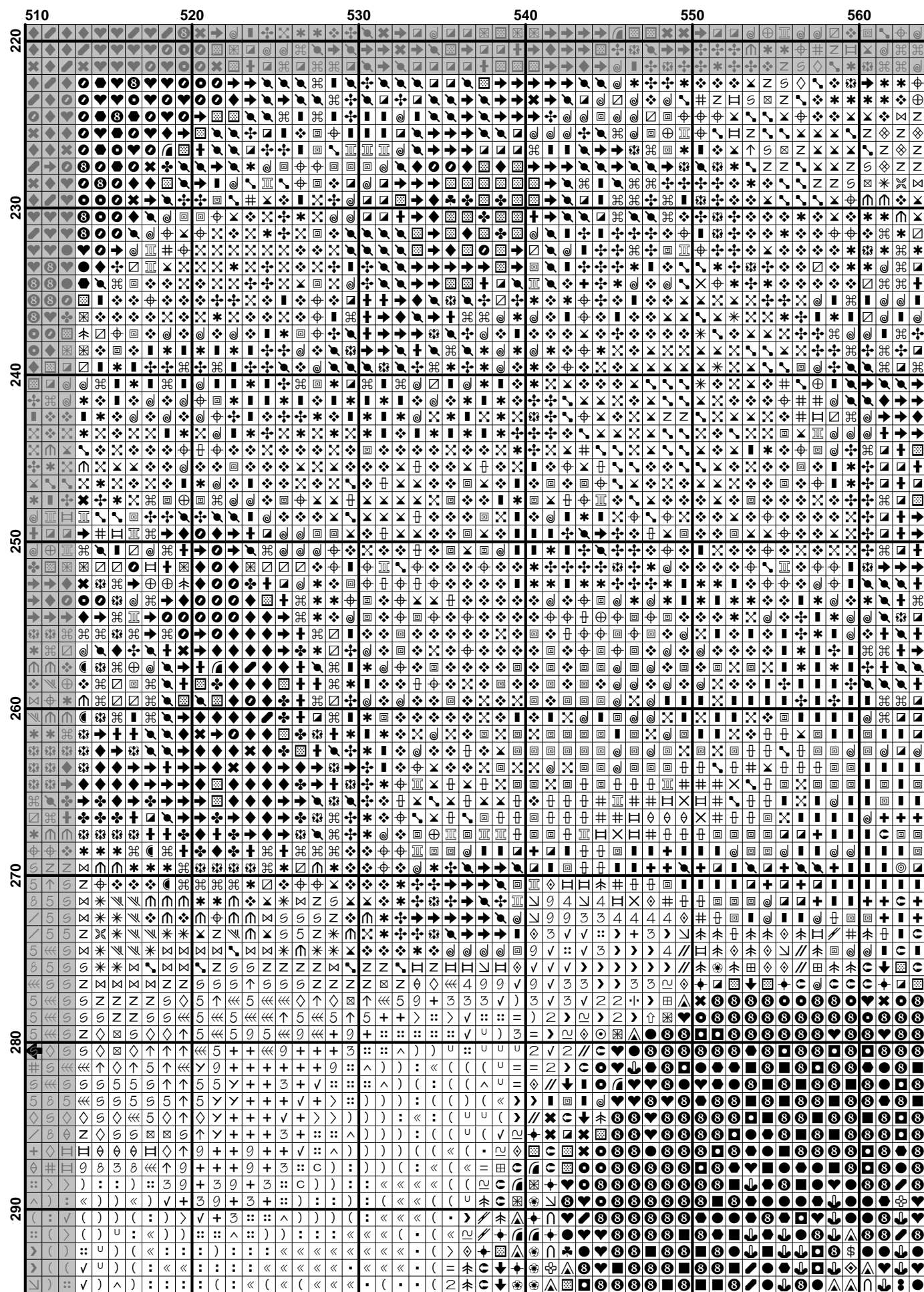
$$(70) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

	310	320	330	340	350	360
220	9 3 3 + 3 + > + 3 + 9 + 9 + 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9
230	9 3 3 + 3 + > + 3 + 9 + 9 + 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9
240	9 3 3 + 3 + > + 3 + 9 + 9 + 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9
250	9 3 3 + 3 + > + 3 + 9 + 9 + 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9
260	9 3 3 + 3 + > + 3 + 9 + 9 + 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9
270	9 3 3 + 3 + > + 3 + 9 + 9 + 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9
280	9 3 3 + 3 + > + 3 + 9 + 9 + 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9
290	9 3 3 + 3 + > + 3 + 9 + 9 + 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9	9 3 3 + 3 + 9 + 3 9 9 9

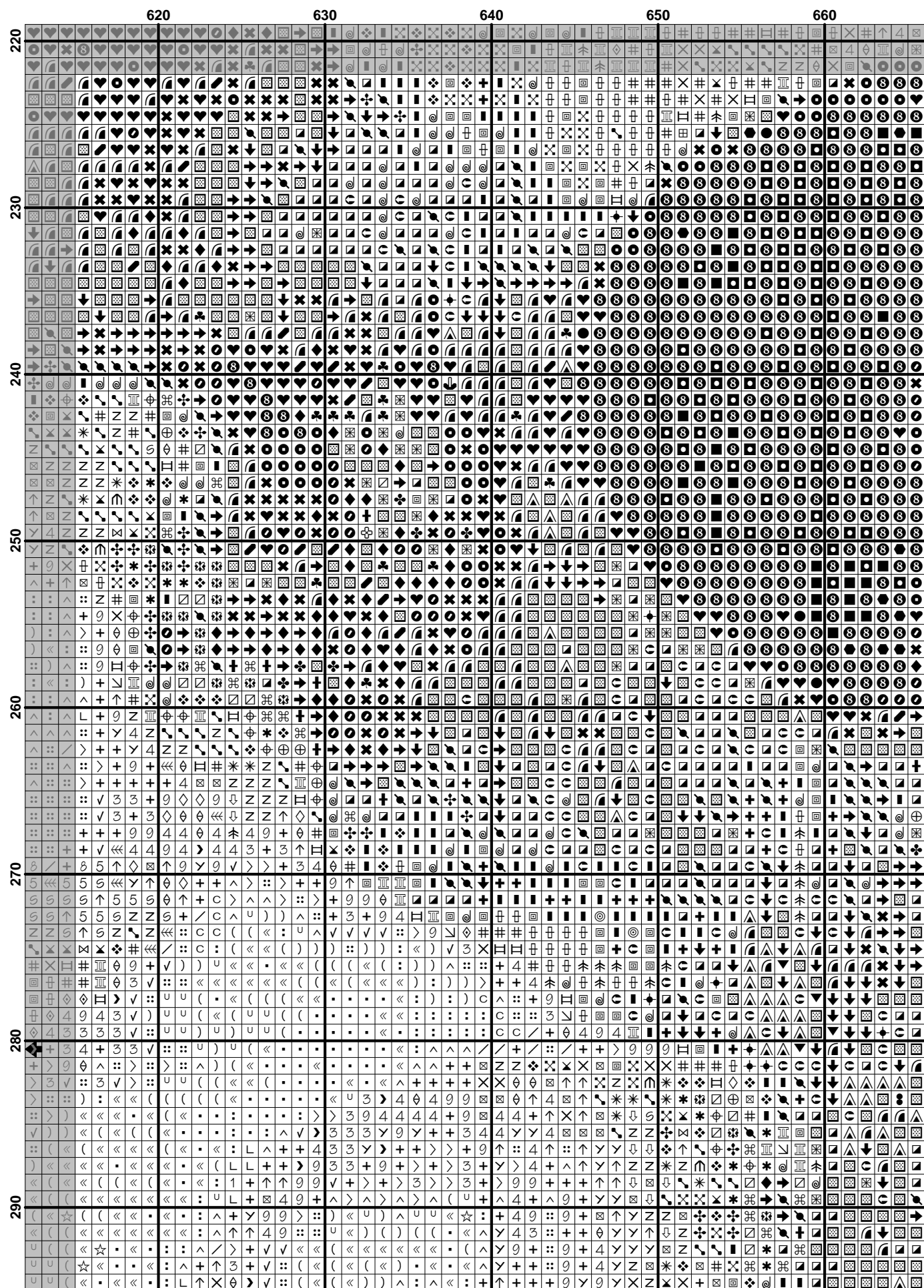




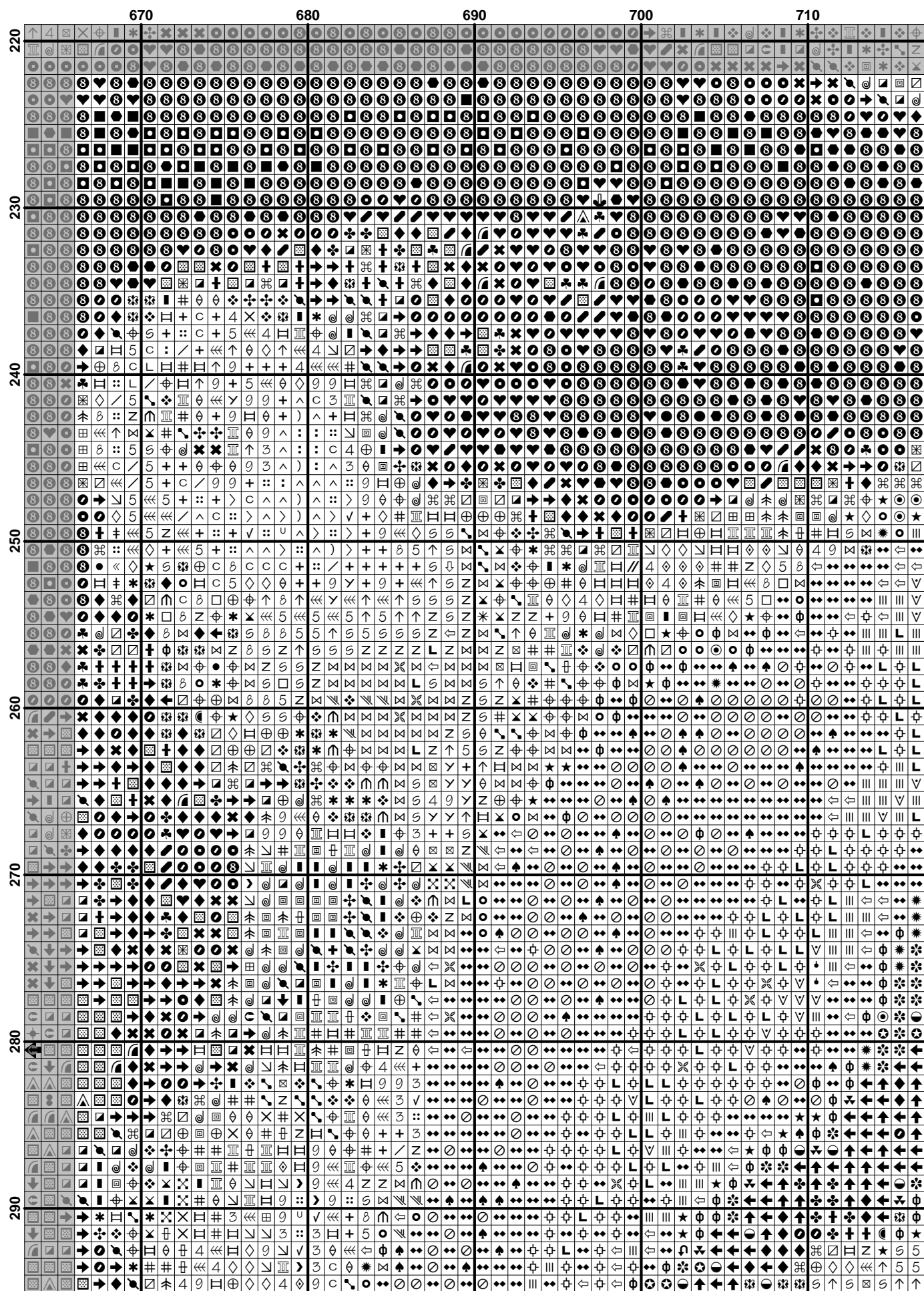


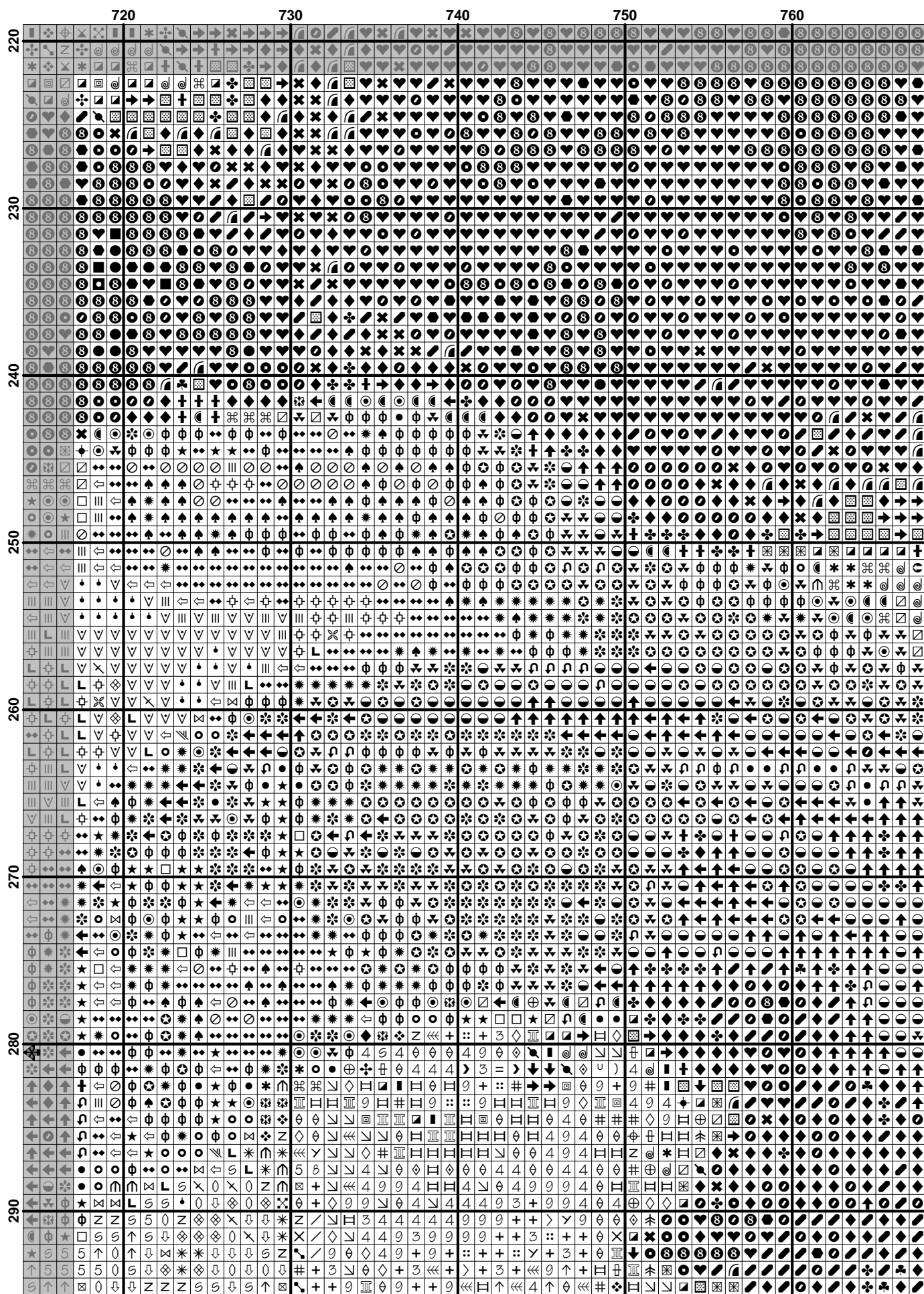


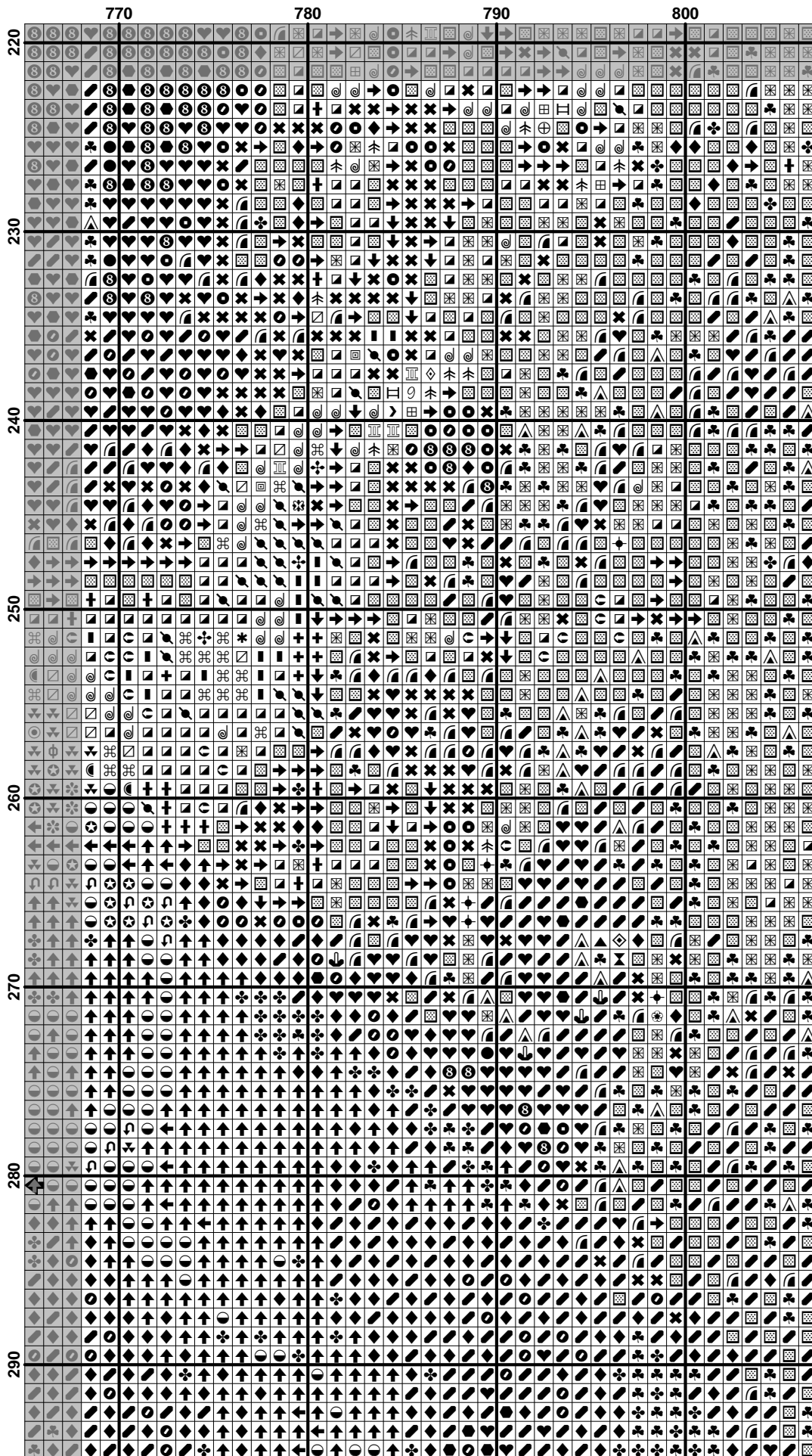
	570	580	590	600	610
220	♠	♠	♠	♠	♠
221	♠	♠	♠	♠	♠
222	♠	♠	♠	♠	♠
223	♠	♠	♠	♠	♠
224	♠	♠	♠	♠	♠
225	♠	♠	♠	♠	♠
226	♠	♠	♠	♠	♠
227	♠	♠	♠	♠	♠
228	♠	♠	♠	♠	♠
229	♠	♠	♠	♠	♠
230	♠	♠	♠	♠	♠
231	♠	♠	♠	♠	♠
232	♠	♠	♠	♠	♠
233	♠	♠	♠	♠	♠
234	♠	♠	♠	♠	♠
235	♠	♠	♠	♠	♠
236	♠	♠	♠	♠	♠
237	♠	♠	♠	♠	♠
238	♠	♠	♠	♠	♠
239	♠	♠	♠	♠	♠
240	♠	♠	♠	♠	♠
241	♠	♠	♠	♠	♠
242	♠	♠	♠	♠	♠
243	♠	♠	♠	♠	♠
244	♠	♠	♠	♠	♠
245	♠	♠	♠	♠	♠
246	♠	♠	♠	♠	♠
247	♠	♠	♠	♠	♠
248	♠	♠	♠	♠	♠
249	♠	♠	♠	♠	♠
250	♠	♠	♠	♠	♠
251	♠	♠	♠	♠	♠
252	♠	♠	♠	♠	♠
253	♠	♠	♠	♠	♠
254	♠	♠	♠	♠	♠
255	♠	♠	♠	♠	♠
256	♠	♠	♠	♠	♠
257	♠	♠	♠	♠	♠
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259	♠	♠	♠	♠	♠
260	♠	♠	♠	♠	♠
261	♠	♠	♠	♠	♠
262	♠	♠	♠	♠	♠
263	♠	♠	♠	♠	♠
264	♠	♠	♠	♠	♠
265	♠	♠	♠	♠	♠
266	♠	♠	♠	♠	♠
267	♠	♠	♠	♠	♠
268	♠	♠	♠	♠	♠
269	♠	♠	♠	♠	♠
270	♠	♠	♠	♠	♠
271	♠	♠	♠	♠	♠
272	♠	♠	♠	♠	♠
273	♠	♠	♠	♠	♠
274	♠	♠	♠	♠	♠
275	♠	♠	♠	♠	♠
276	♠	♠	♠	♠	♠
277	♠	♠	♠	♠	♠
278	♠	♠	♠	♠	♠
279	♠	♠	♠	♠	♠
280	♠	♠	♠	♠	♠
281	♠	♠	♠	♠	♠
282	♠	♠	♠	♠	♠
283	♠	♠	♠	♠	♠
284	♠	♠	♠	♠	♠
285	♠	♠	♠	♠	♠
286	♠	♠	♠	♠	♠
287	♠	♠	♠	♠	♠
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289	♠	♠	♠	♠	♠
290	♠	♠	♠	♠	♠

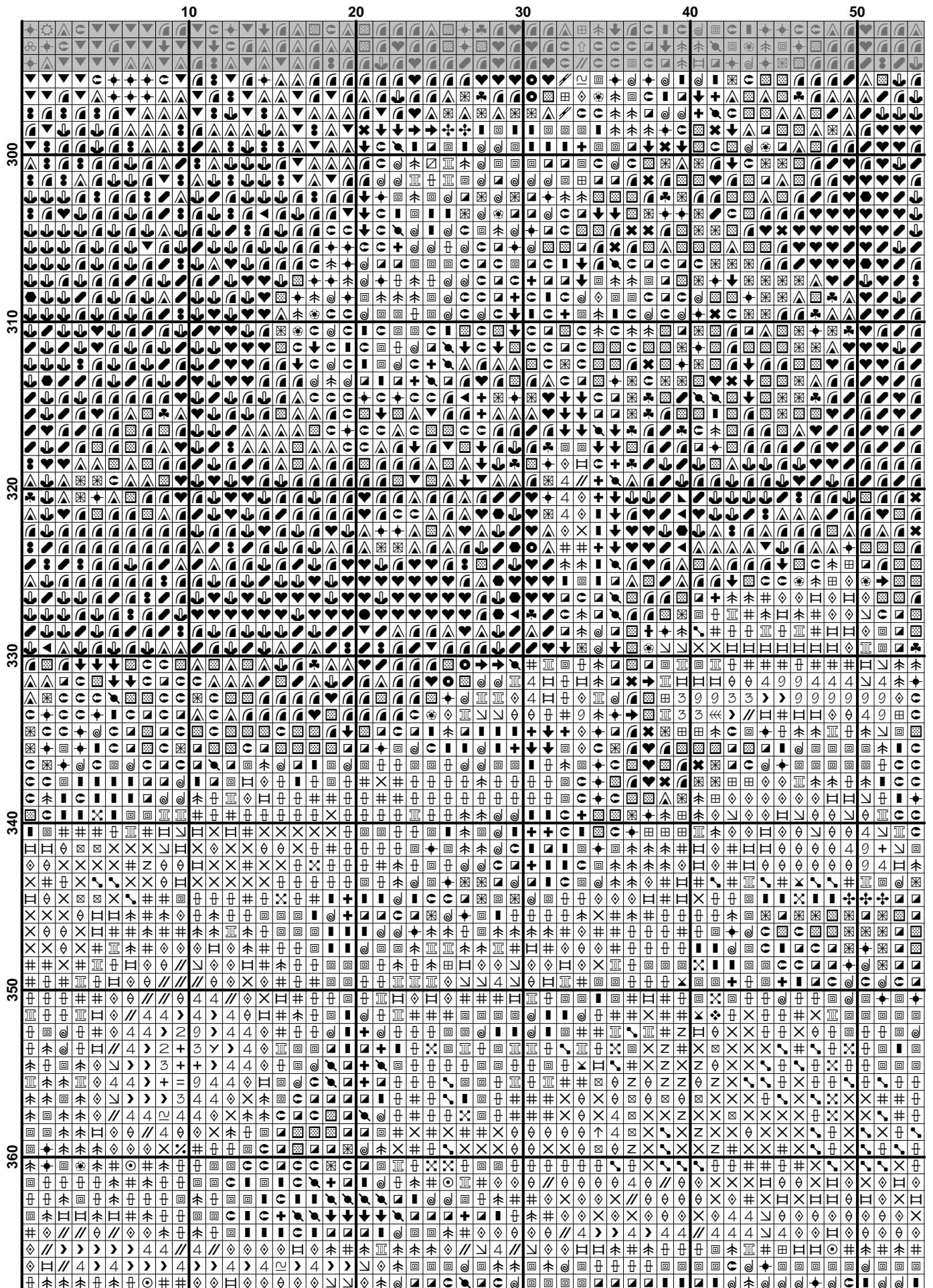


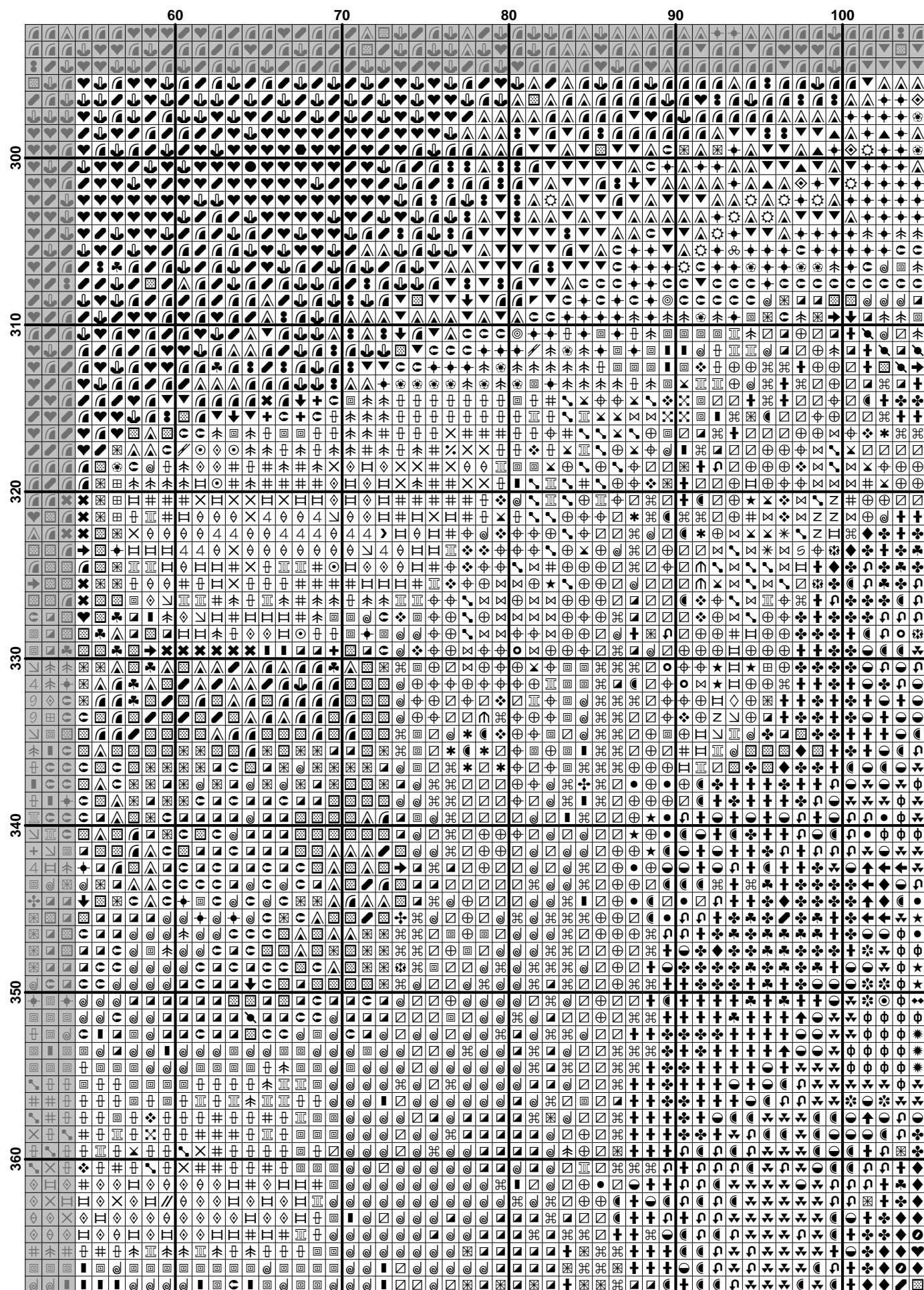


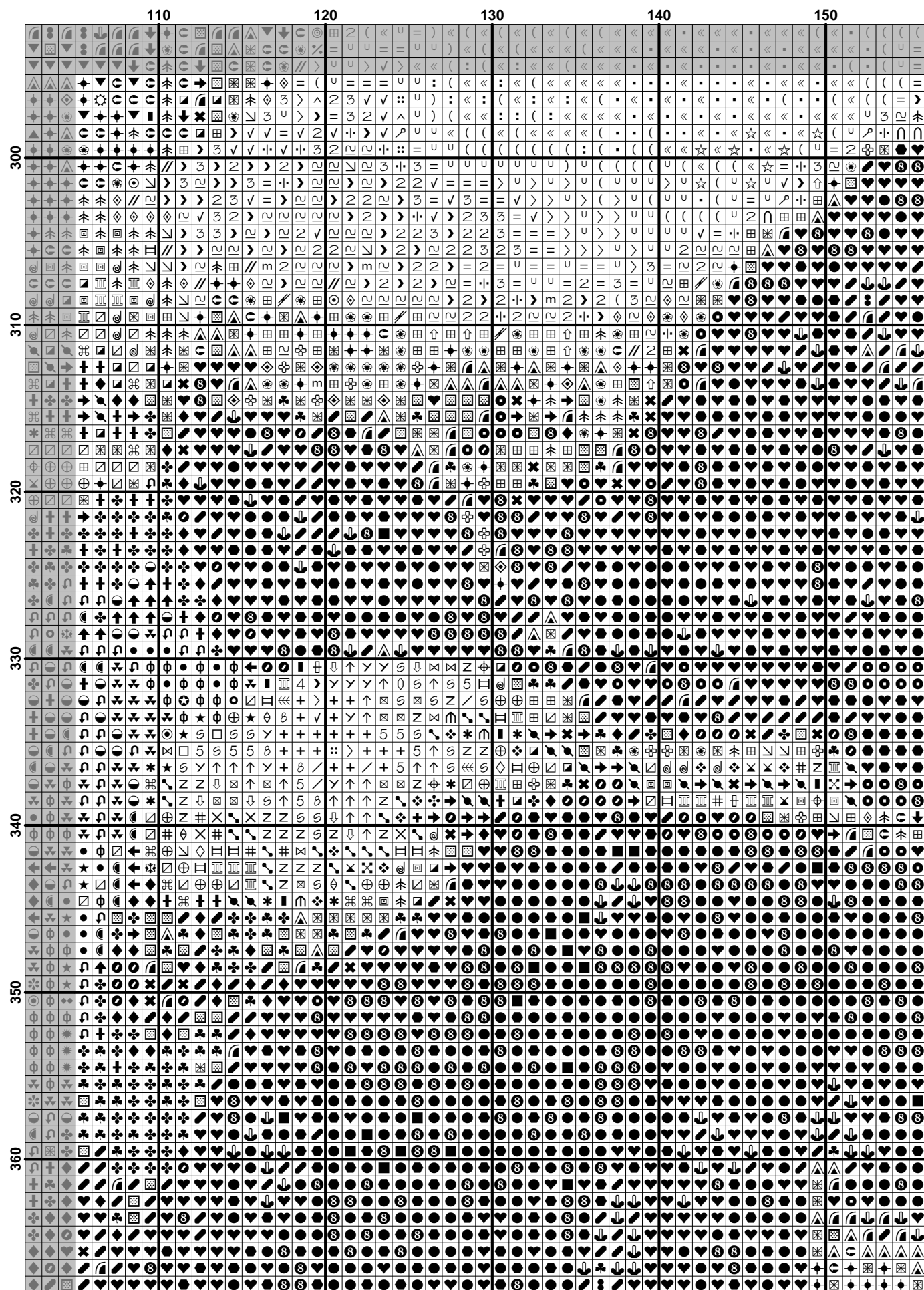


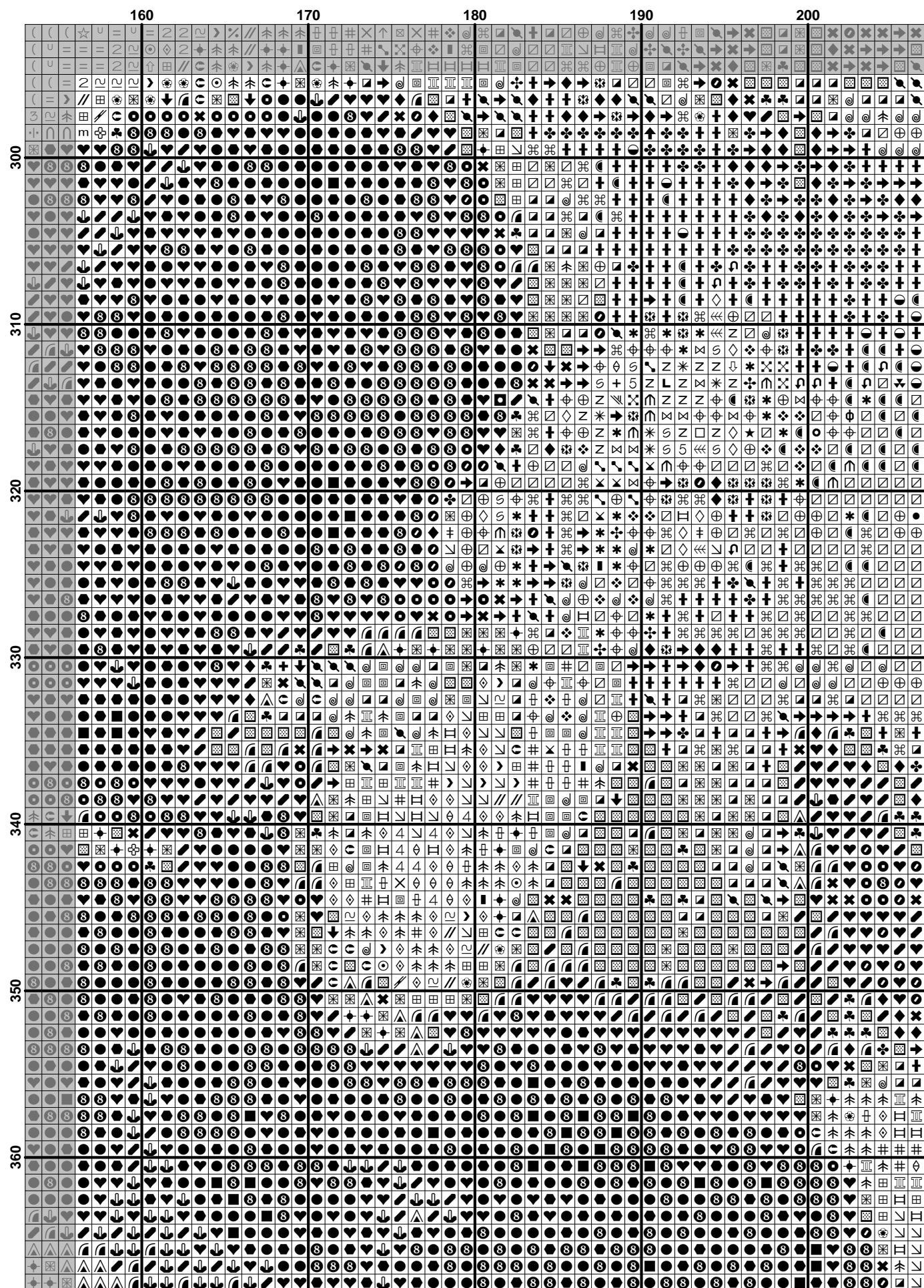












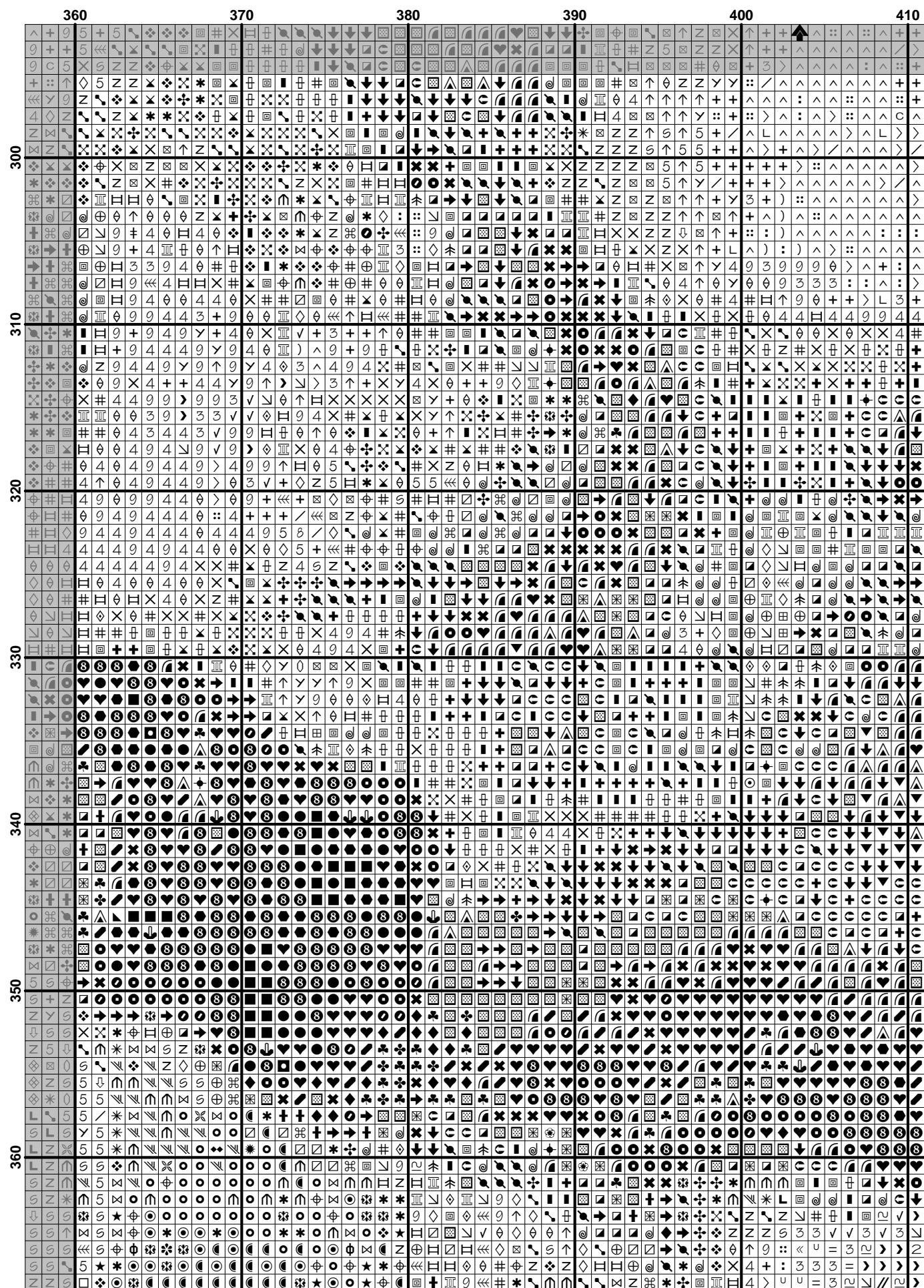


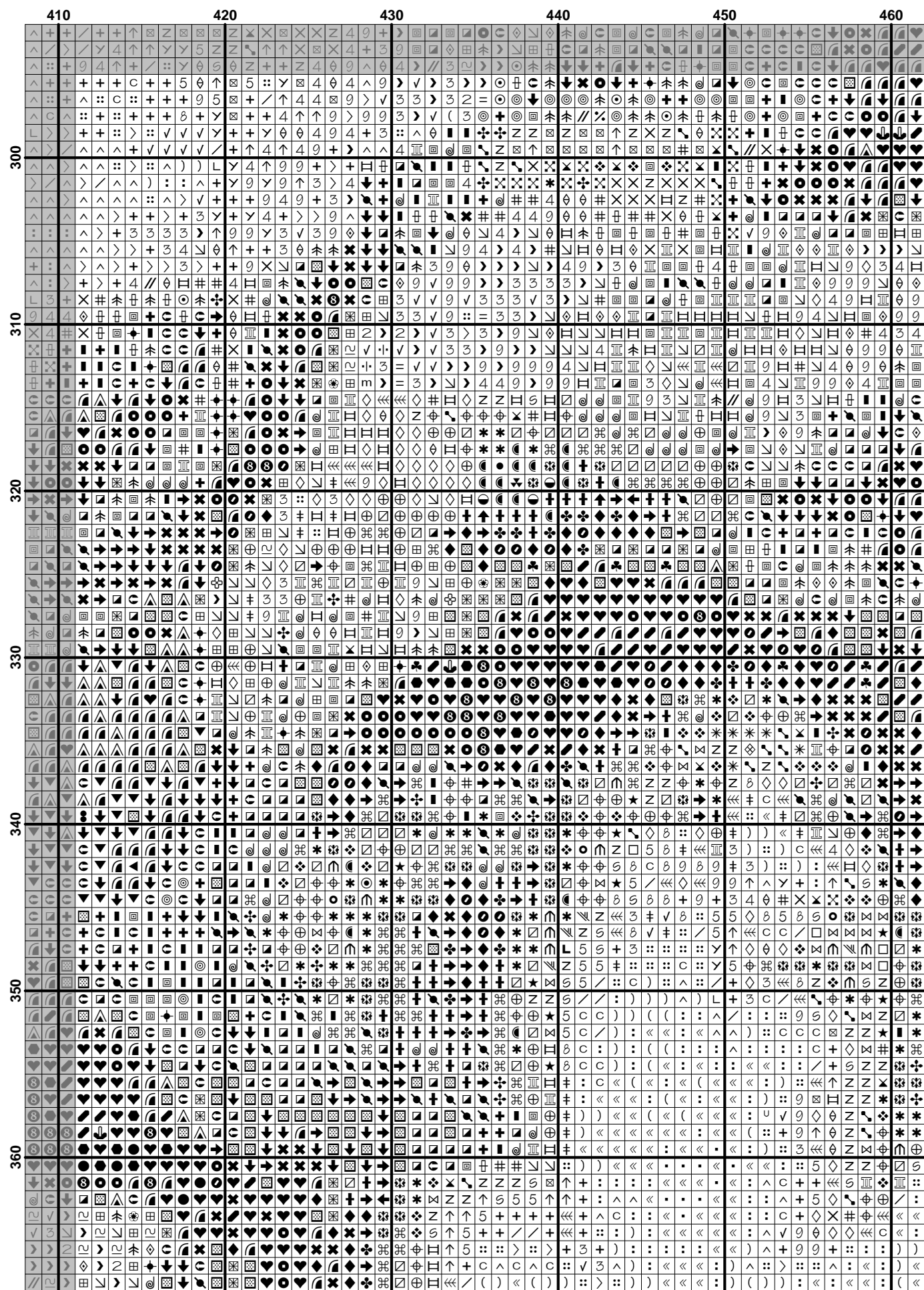
$$(85) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

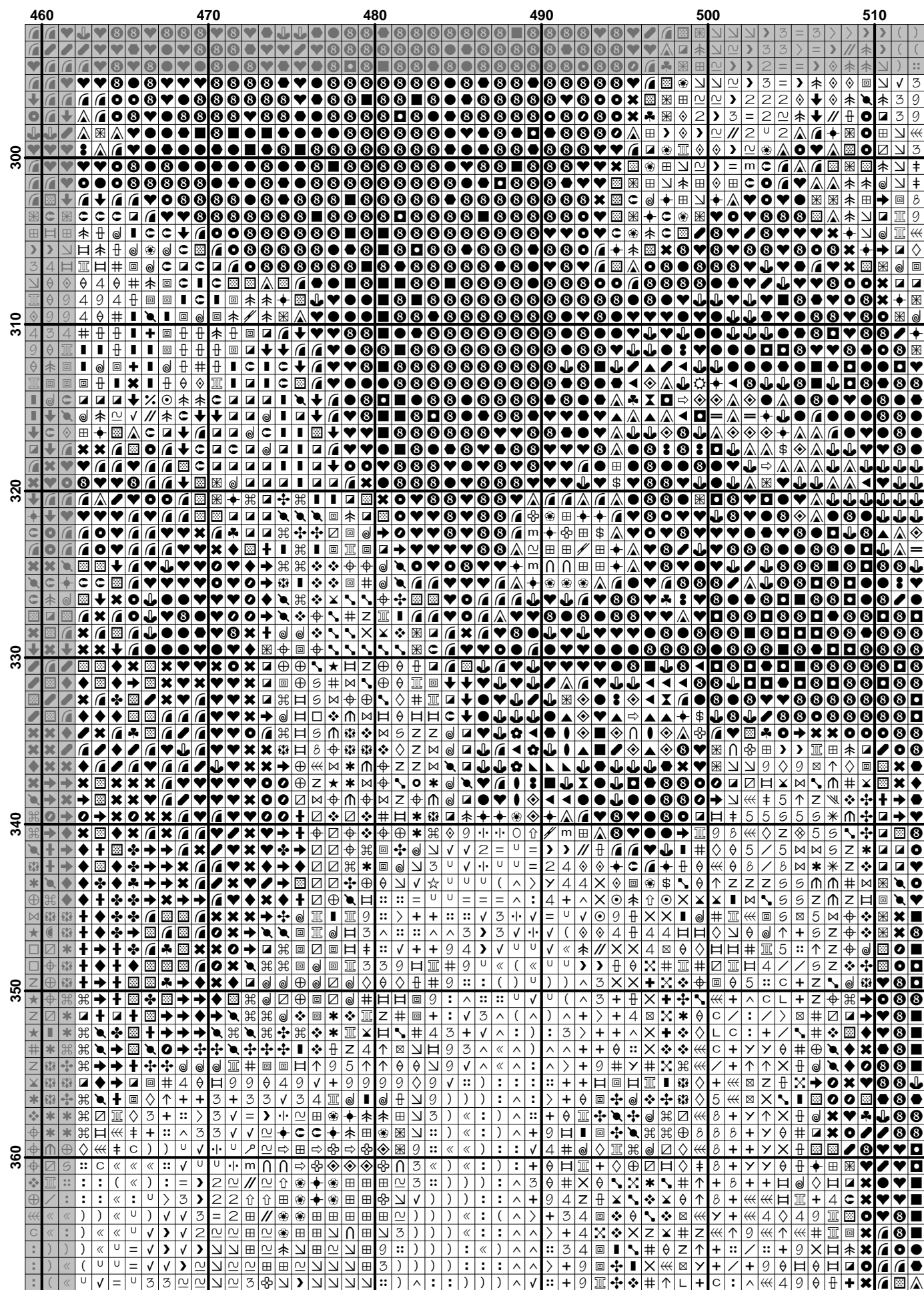


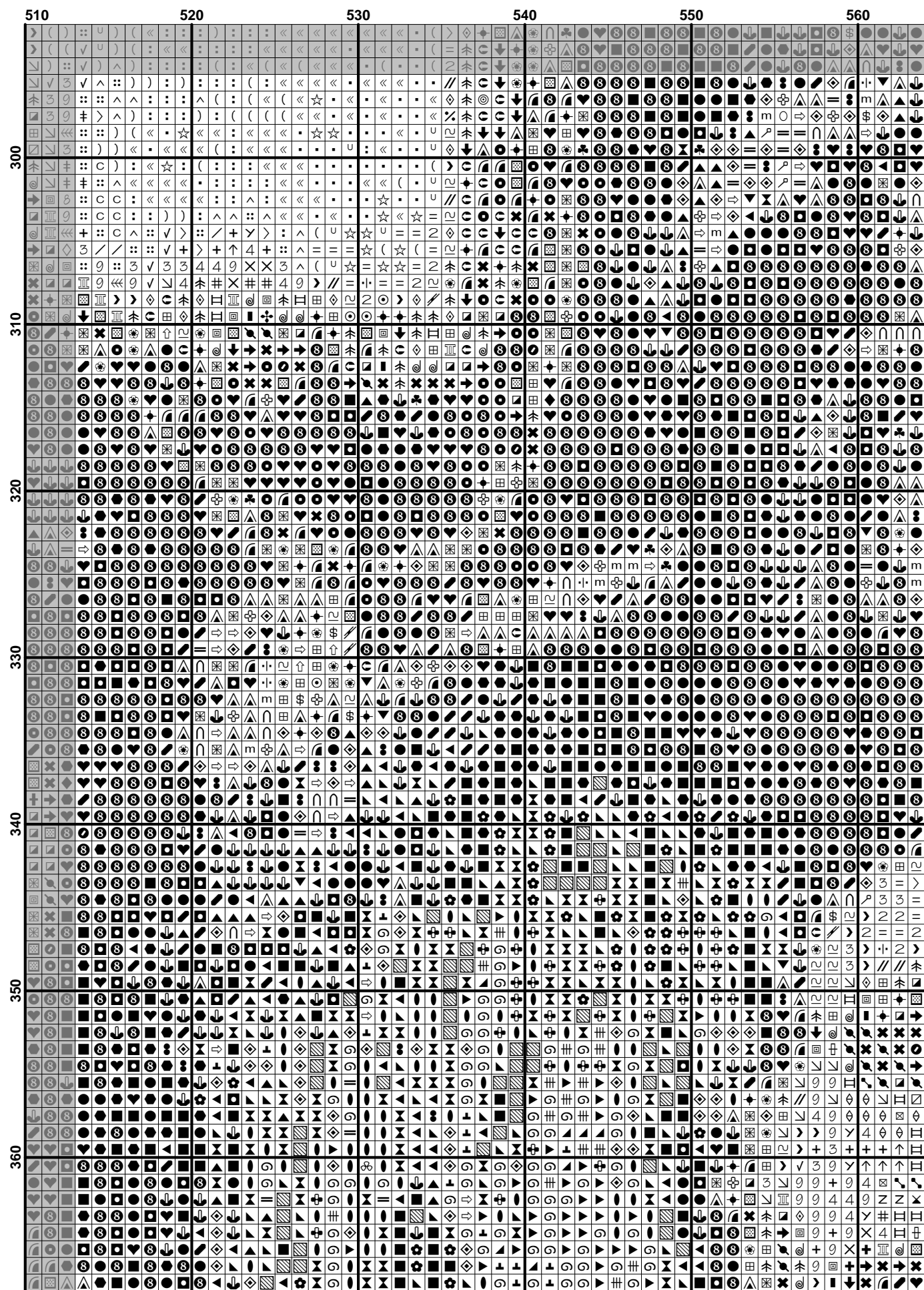
[illegible]

(88)







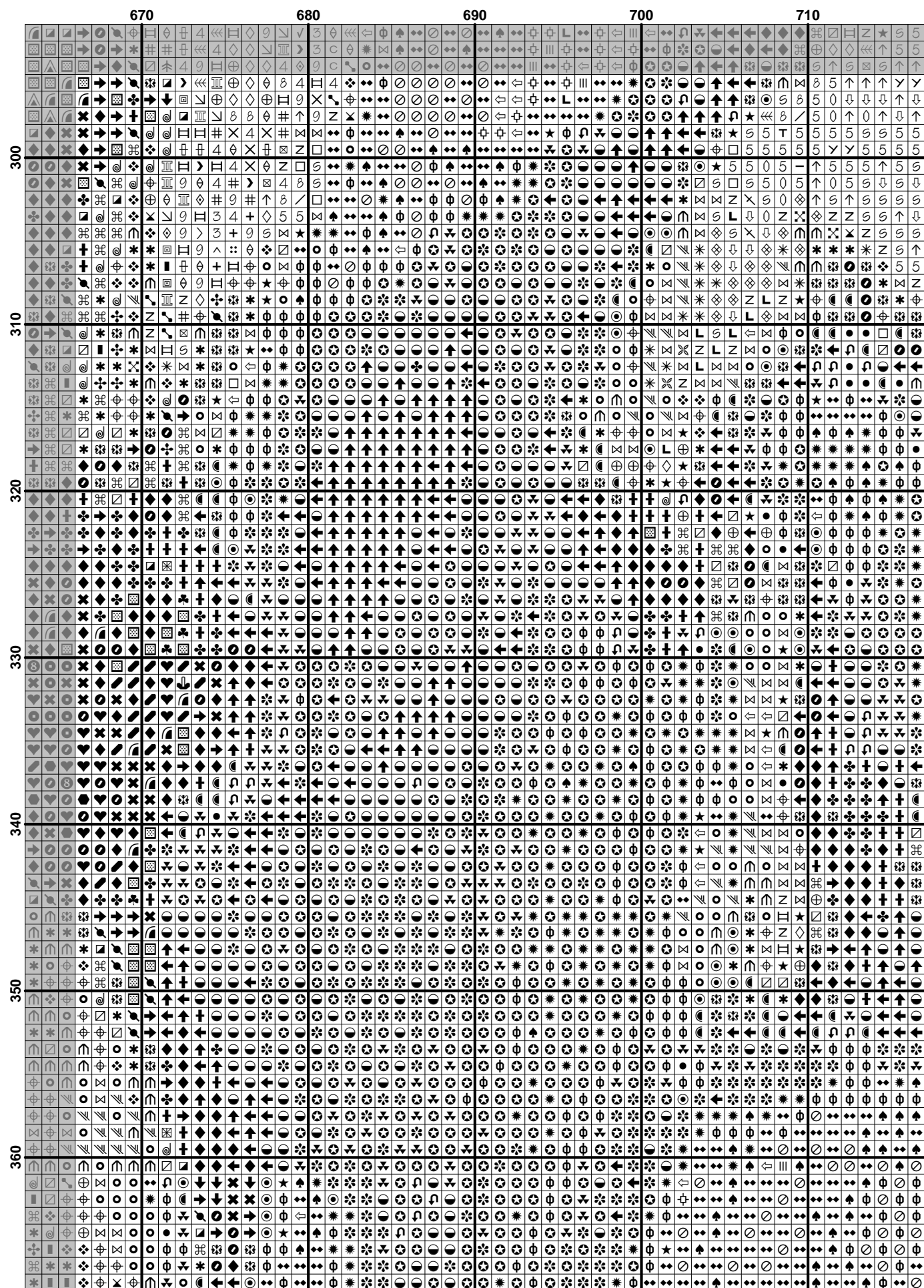


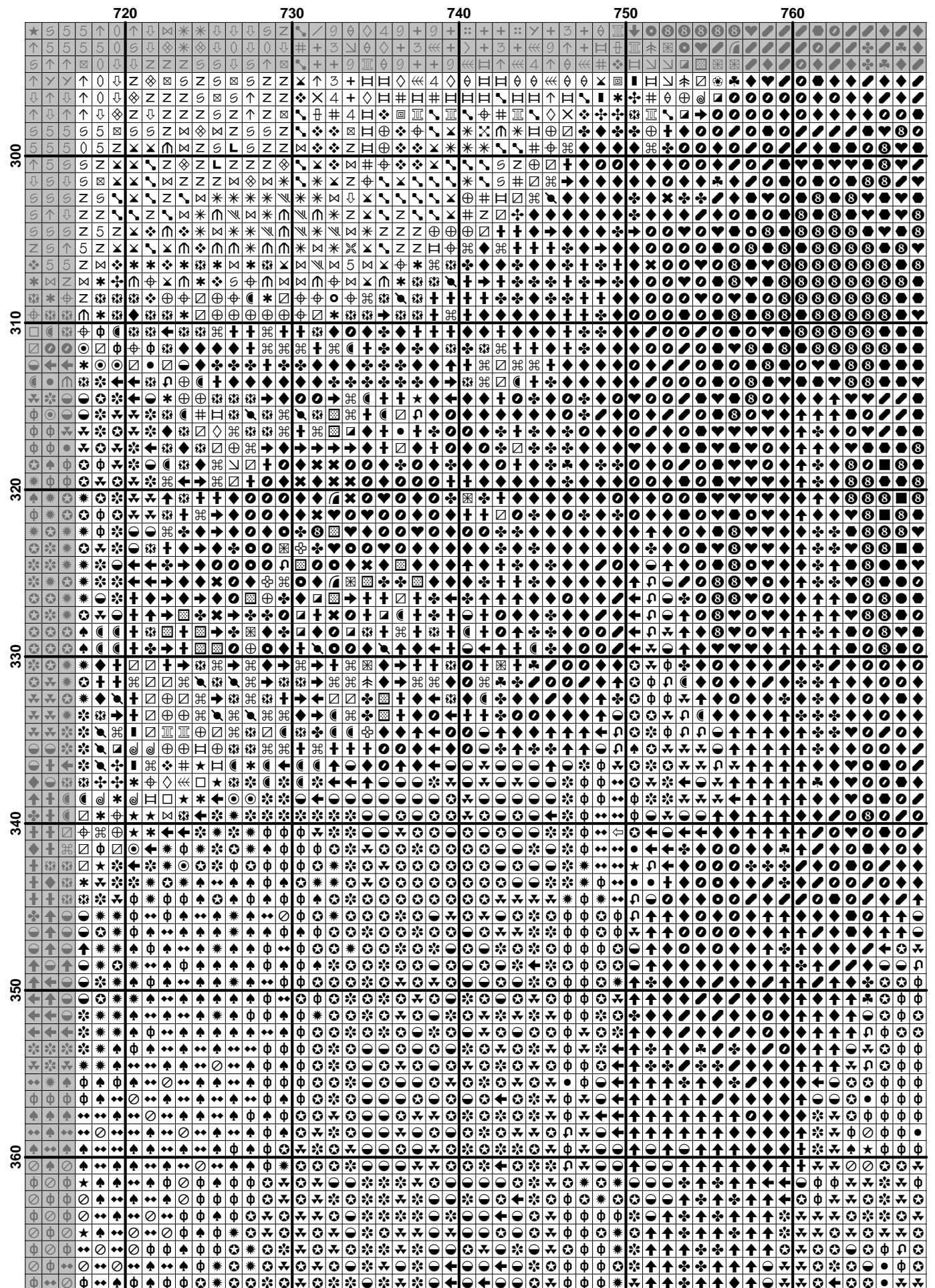
$$(92) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

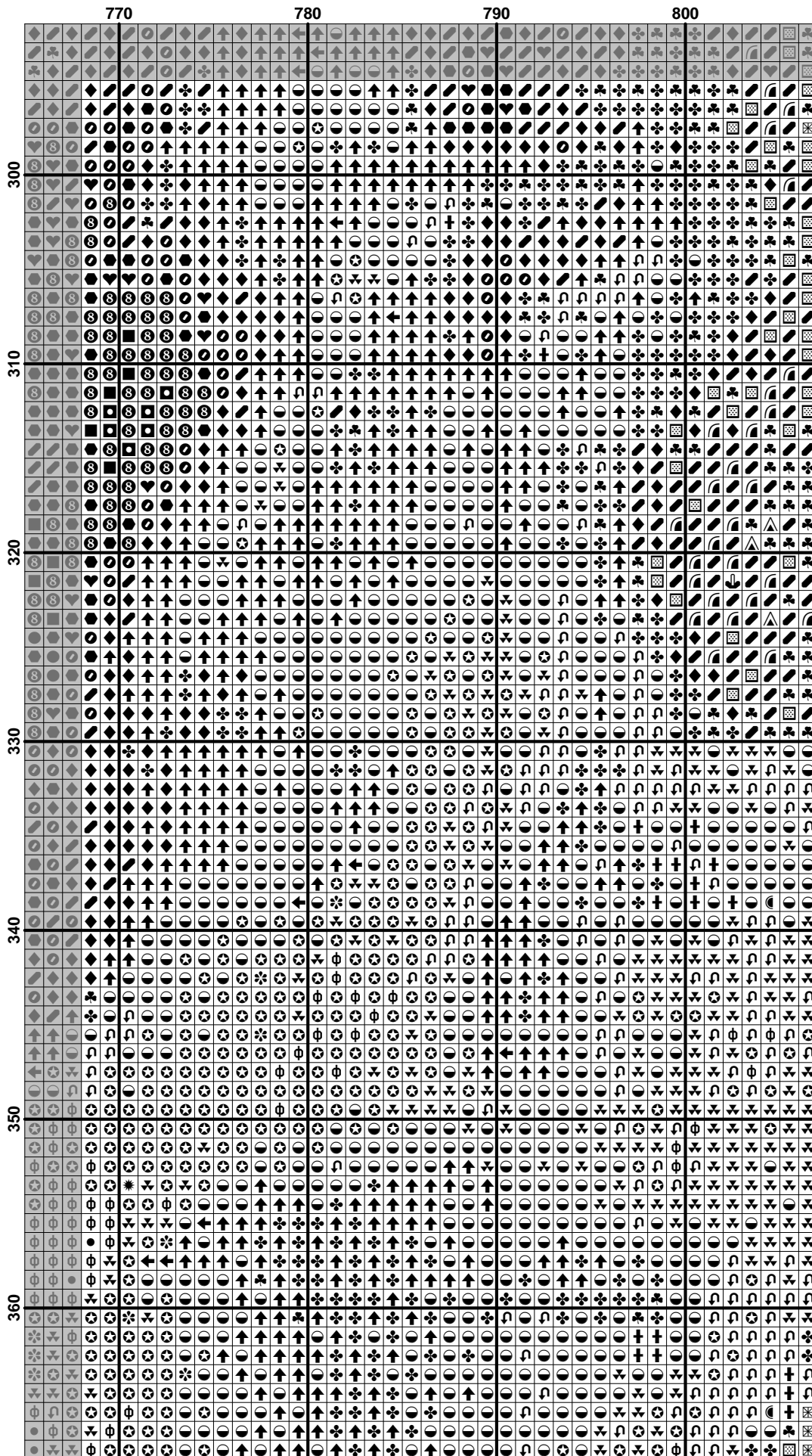


$$(93) \quad \mathcal{L}(\mathcal{A}) \subseteq \mathcal{L}(\mathcal{B}) \iff \mathcal{A} \subseteq \mathcal{B} \text{ and } \mathcal{A} \subseteq \mathcal{B}^{\perp} \quad (94)$$



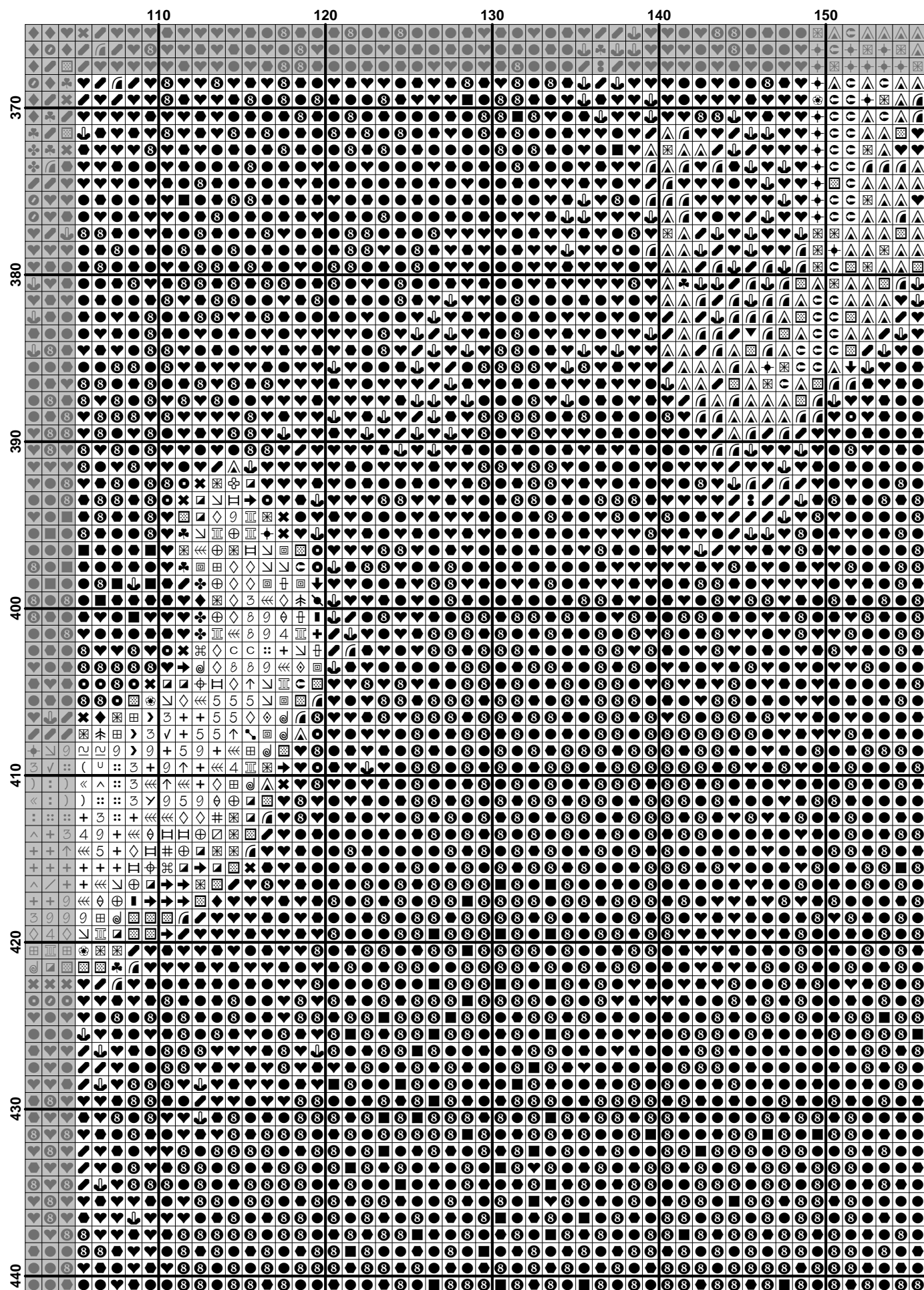


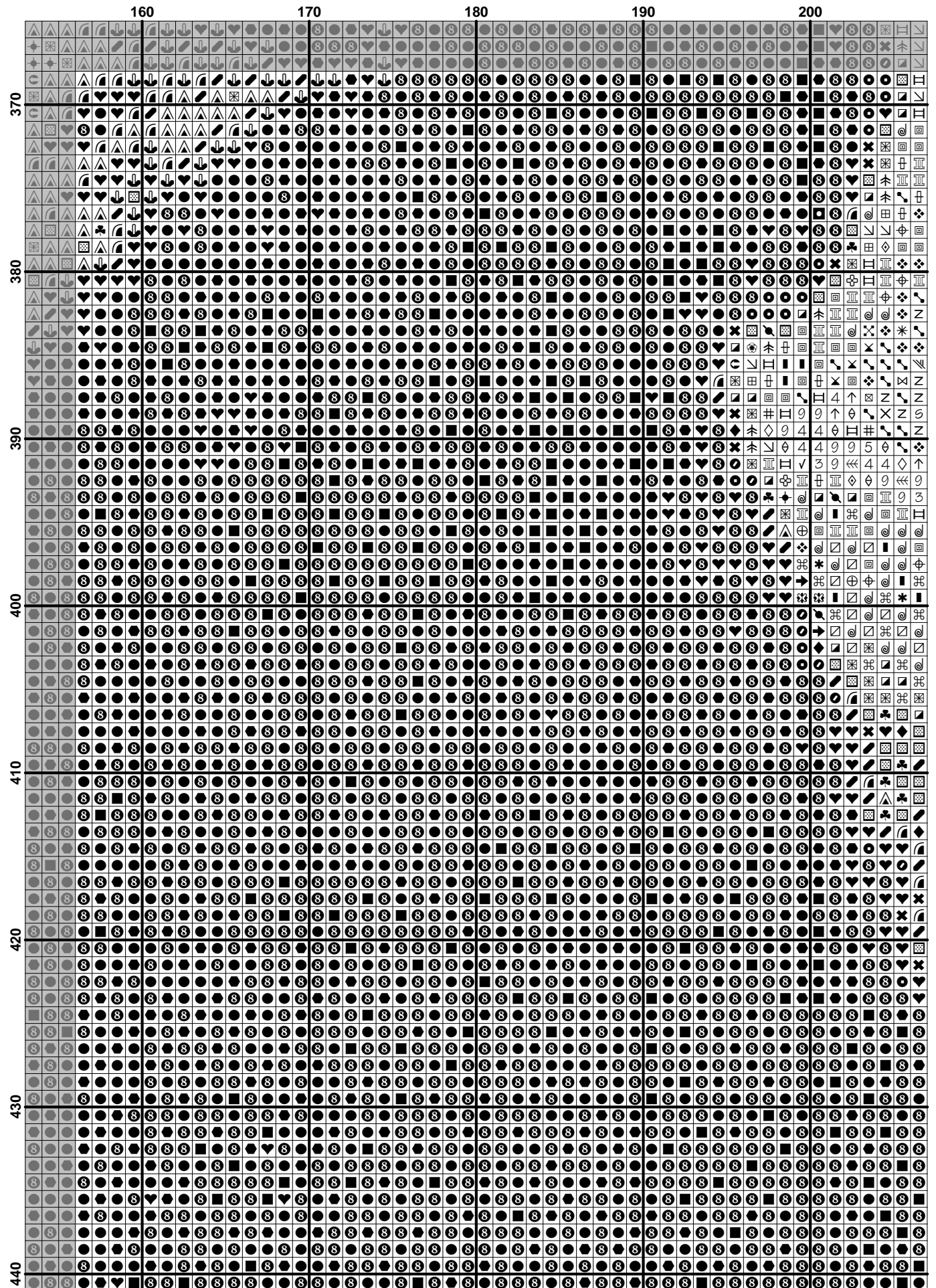


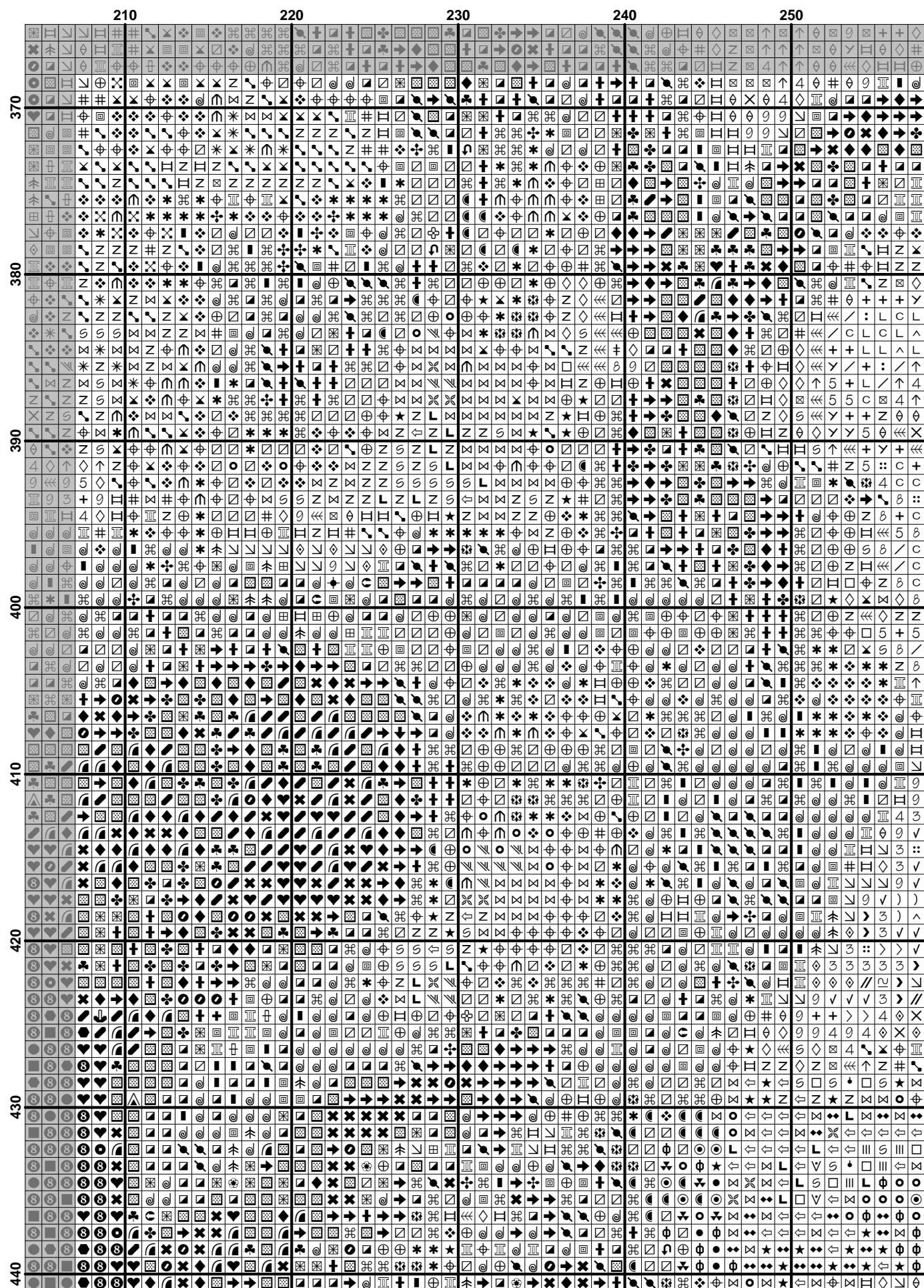


	10	20	30	40	50
370	...	...	...	...	...
380	...	...	...	...	...
390	...	...	...	...	...
400	...	...	...	...	...
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420	...	...	...	...	...
430	...	...	...	...	...
440	...	...	...	...	...

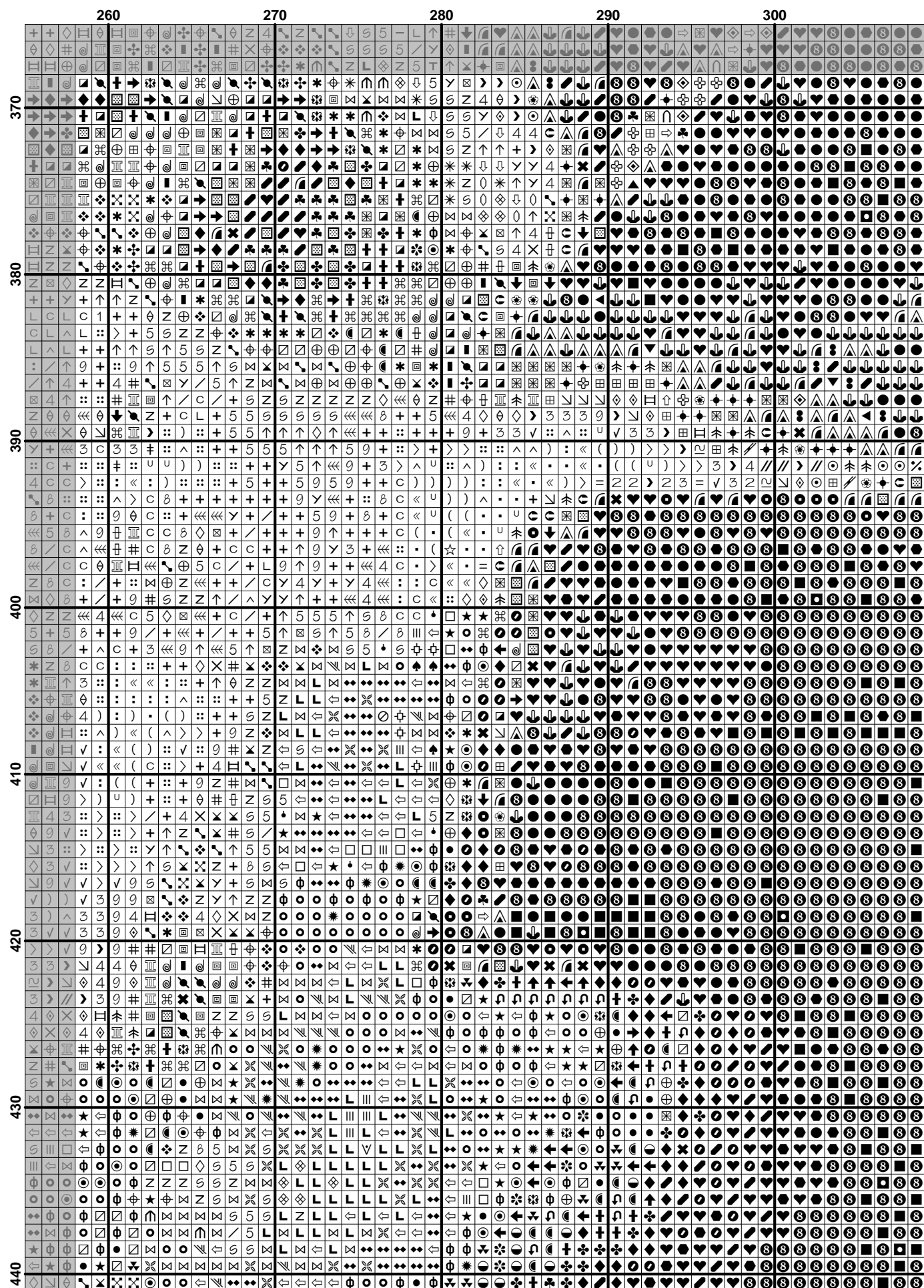
[illegible]

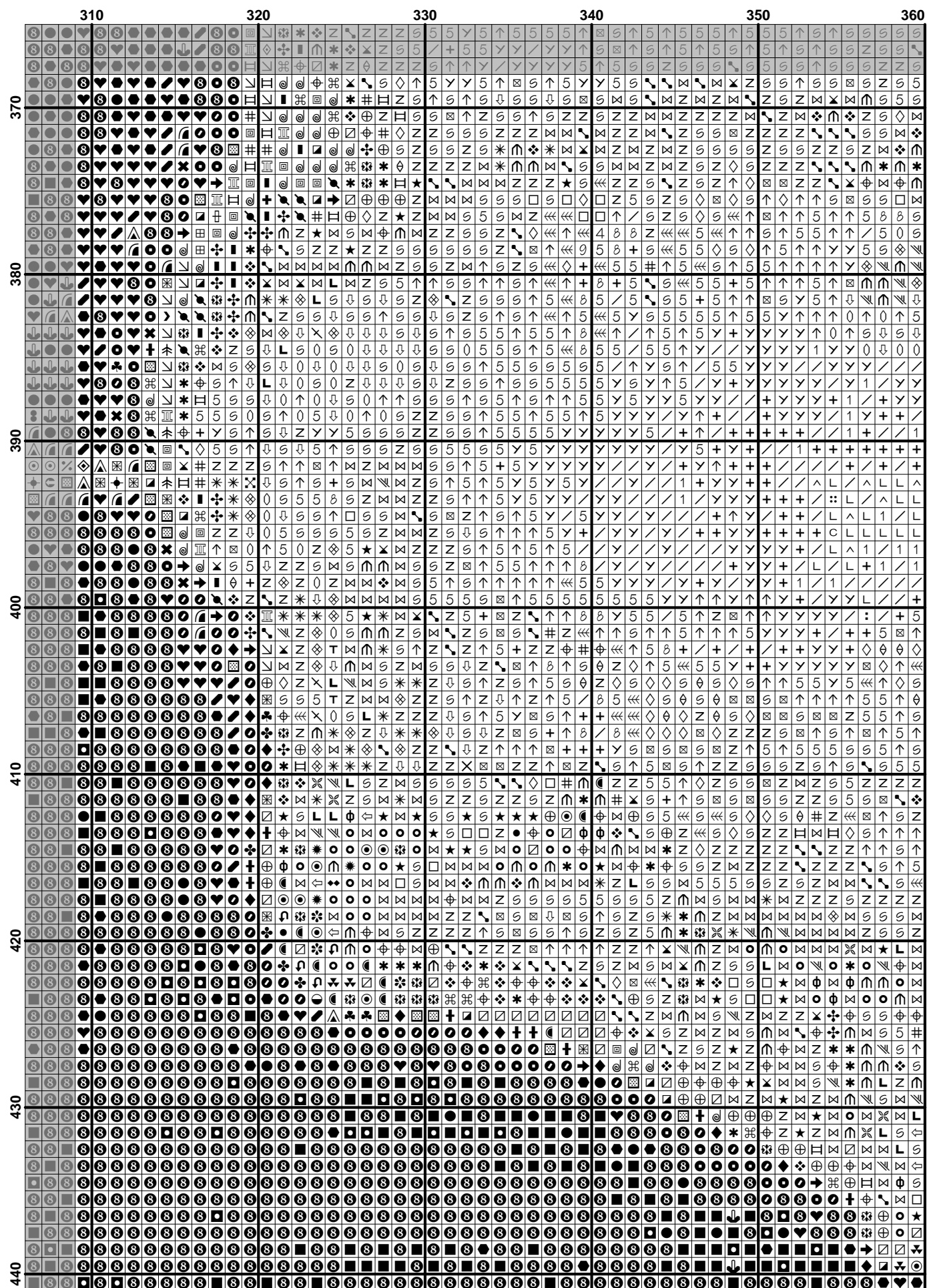






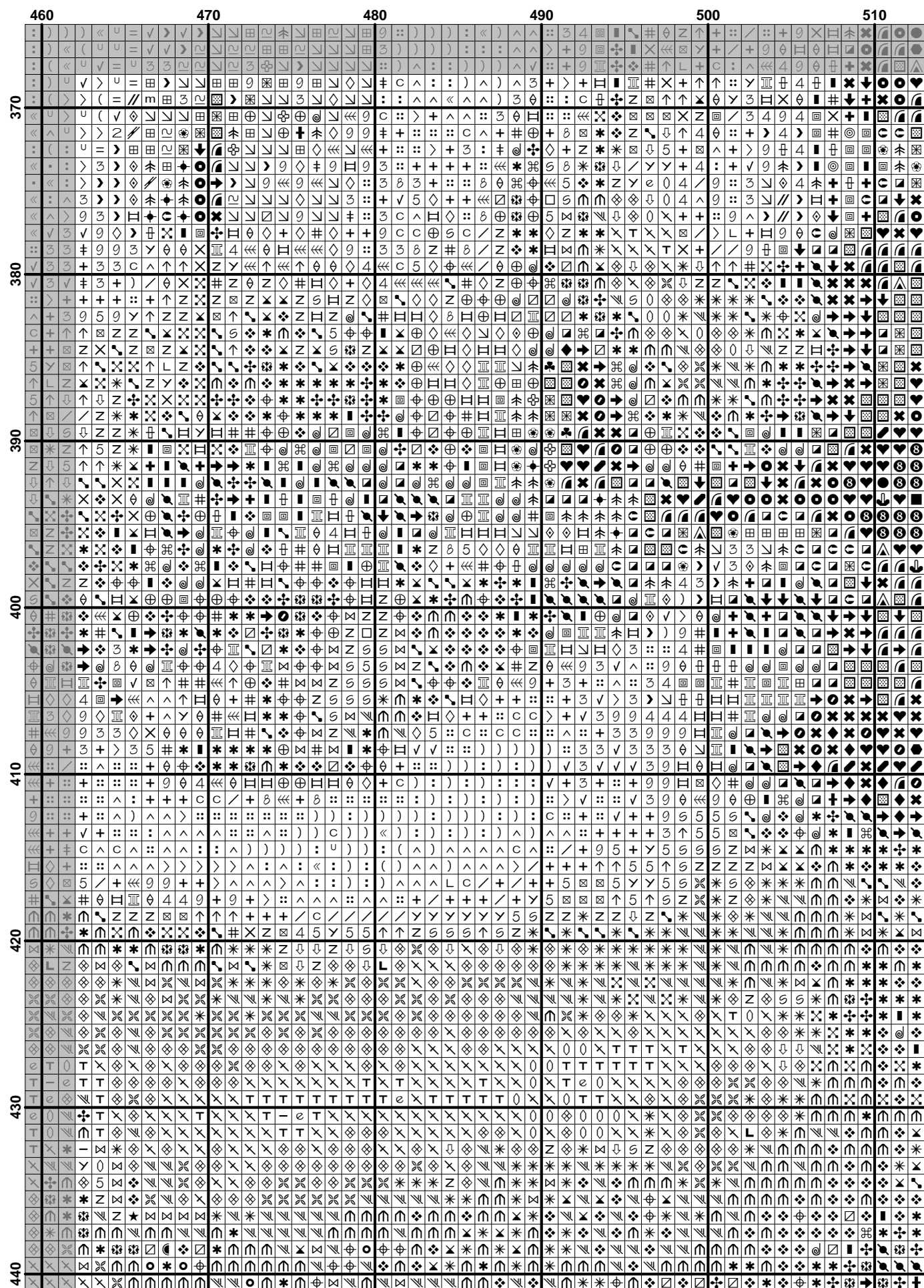


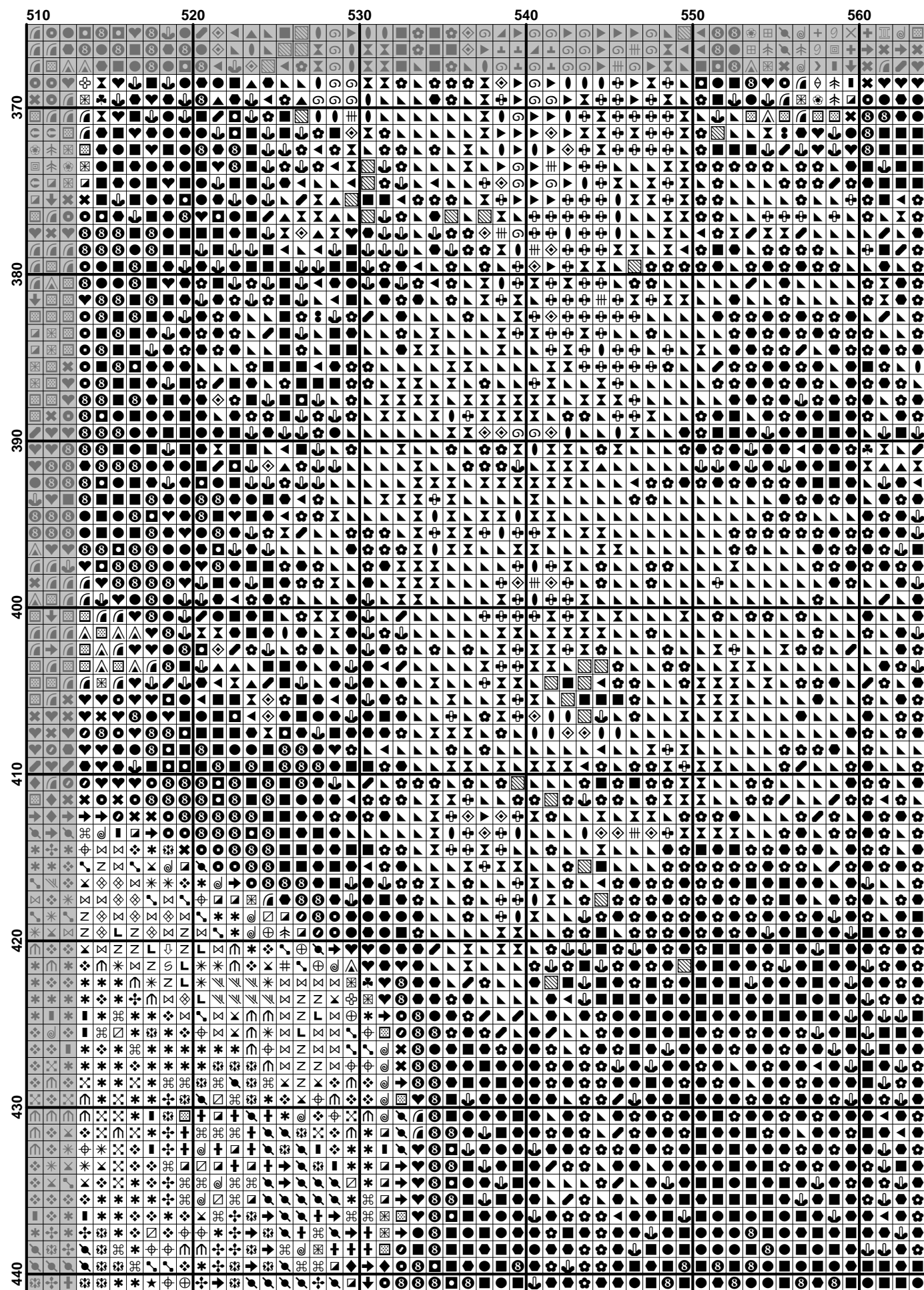


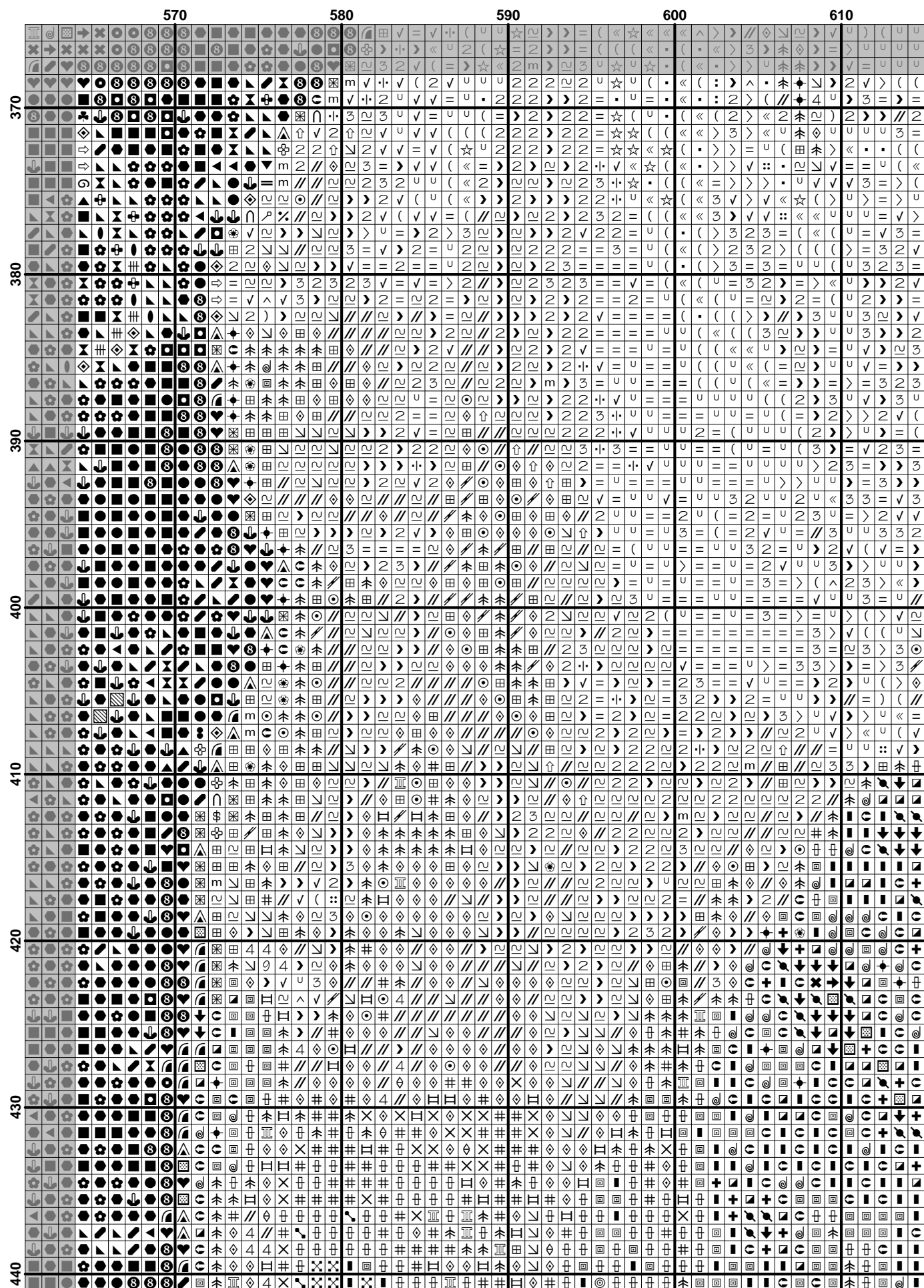


[illegible]

[illegible]





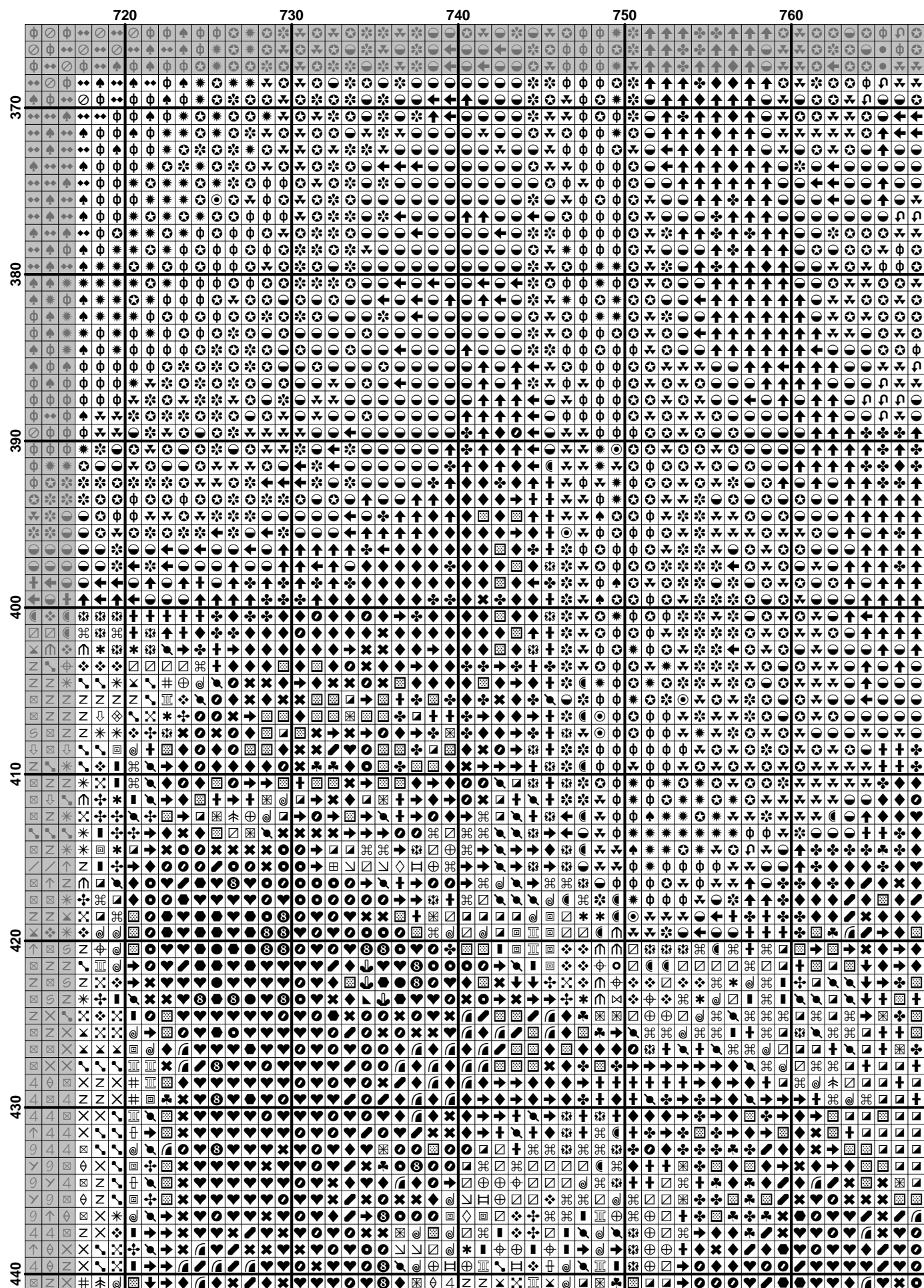




(110)



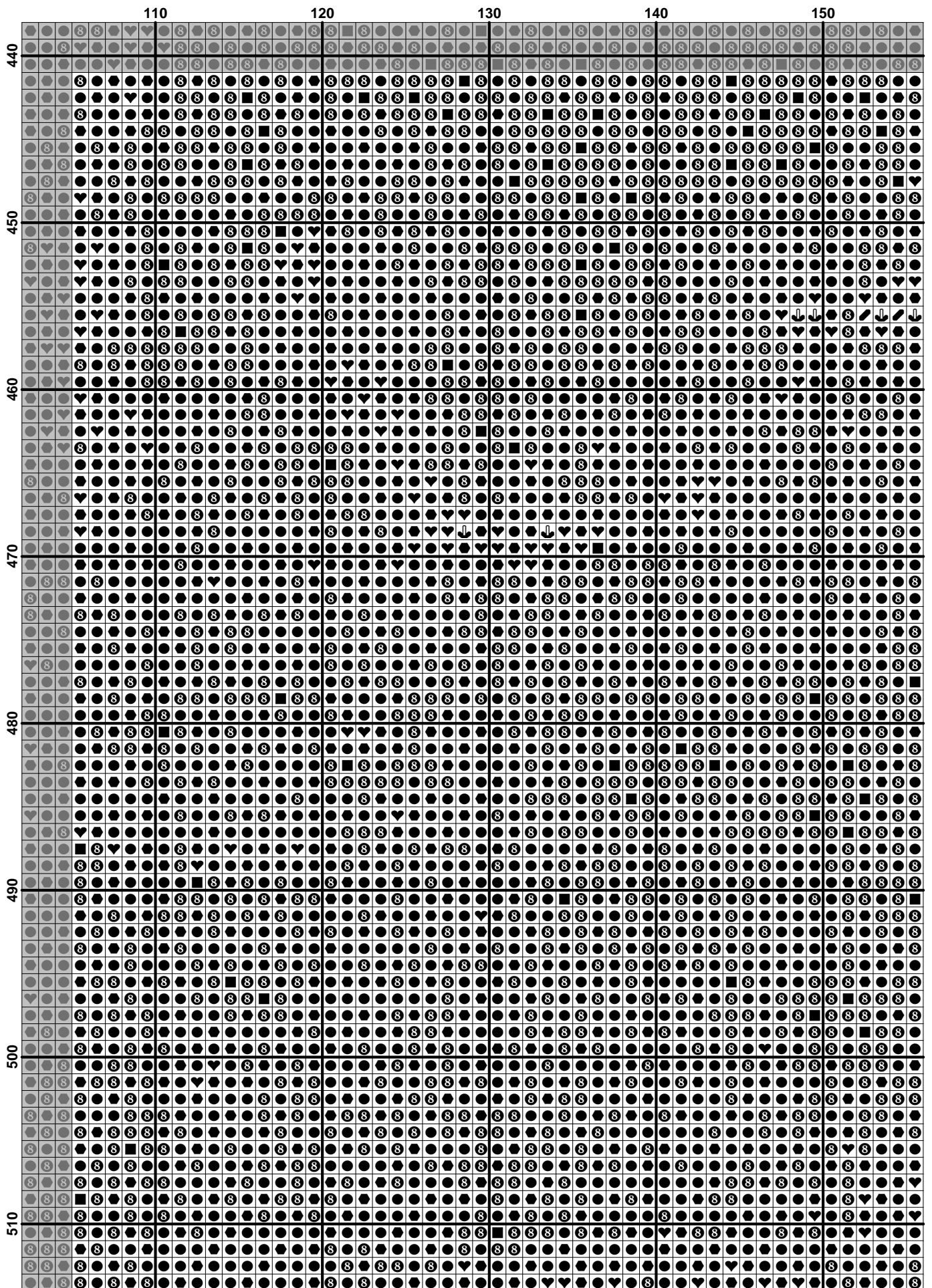
(111)

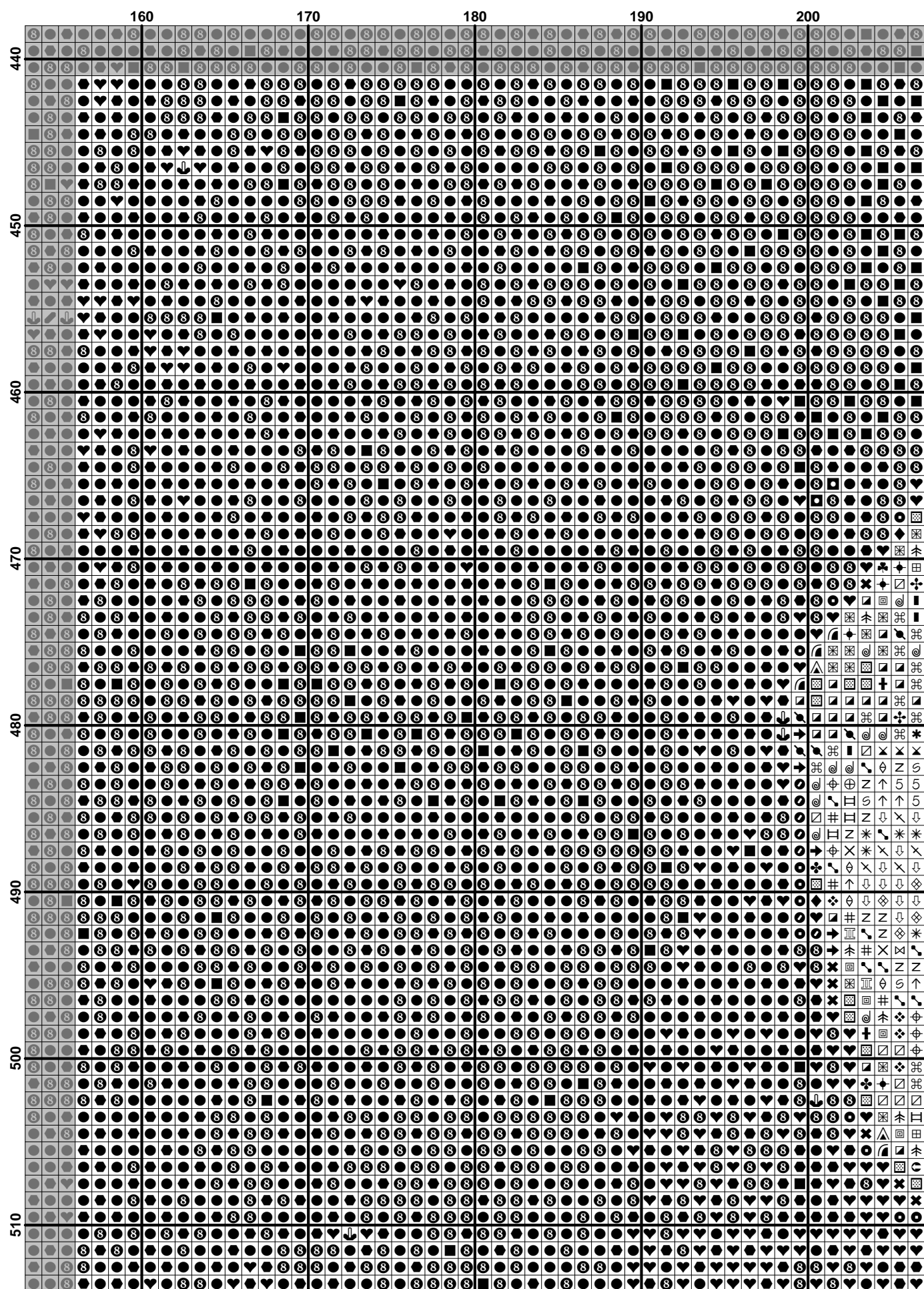


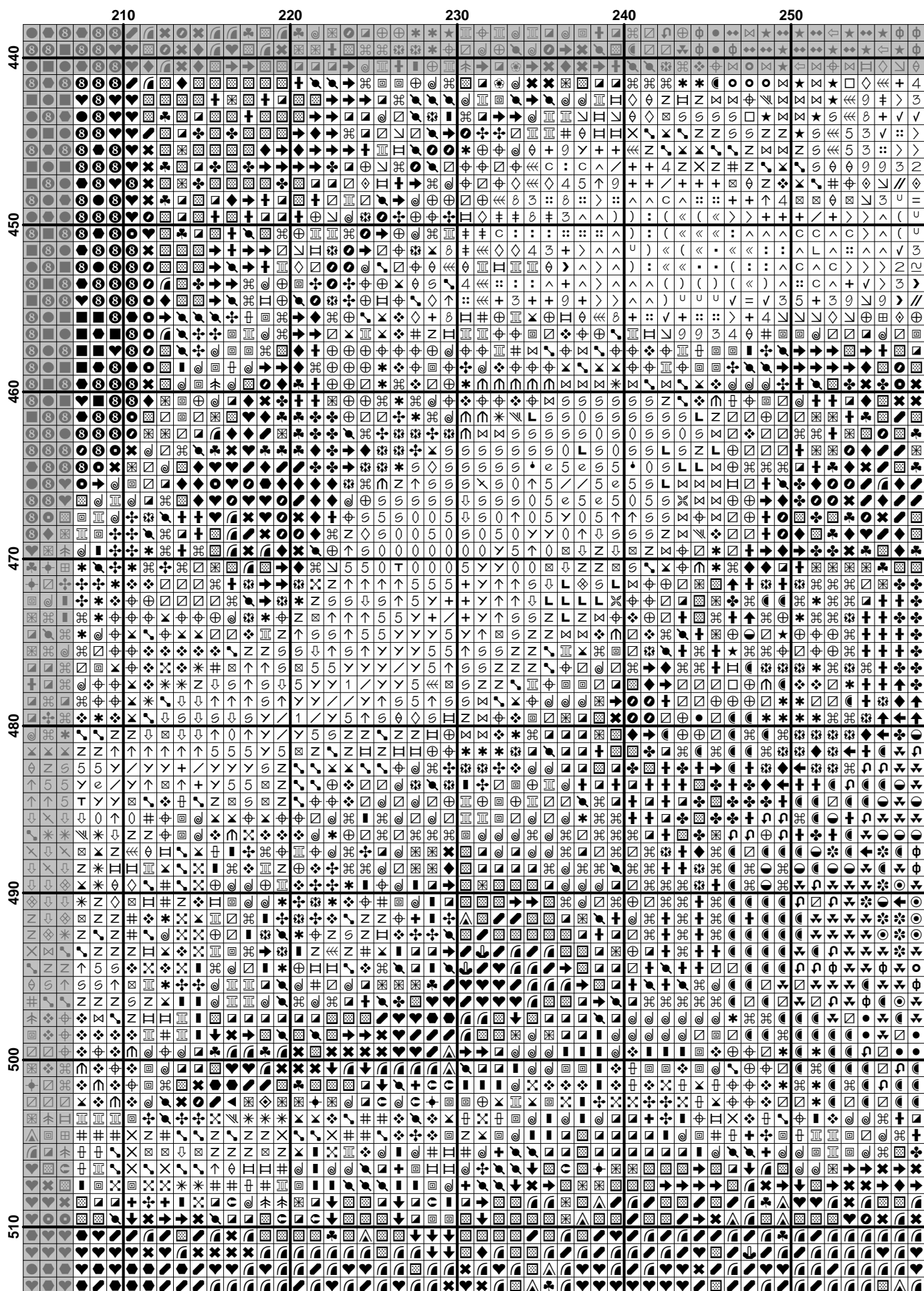


(114)

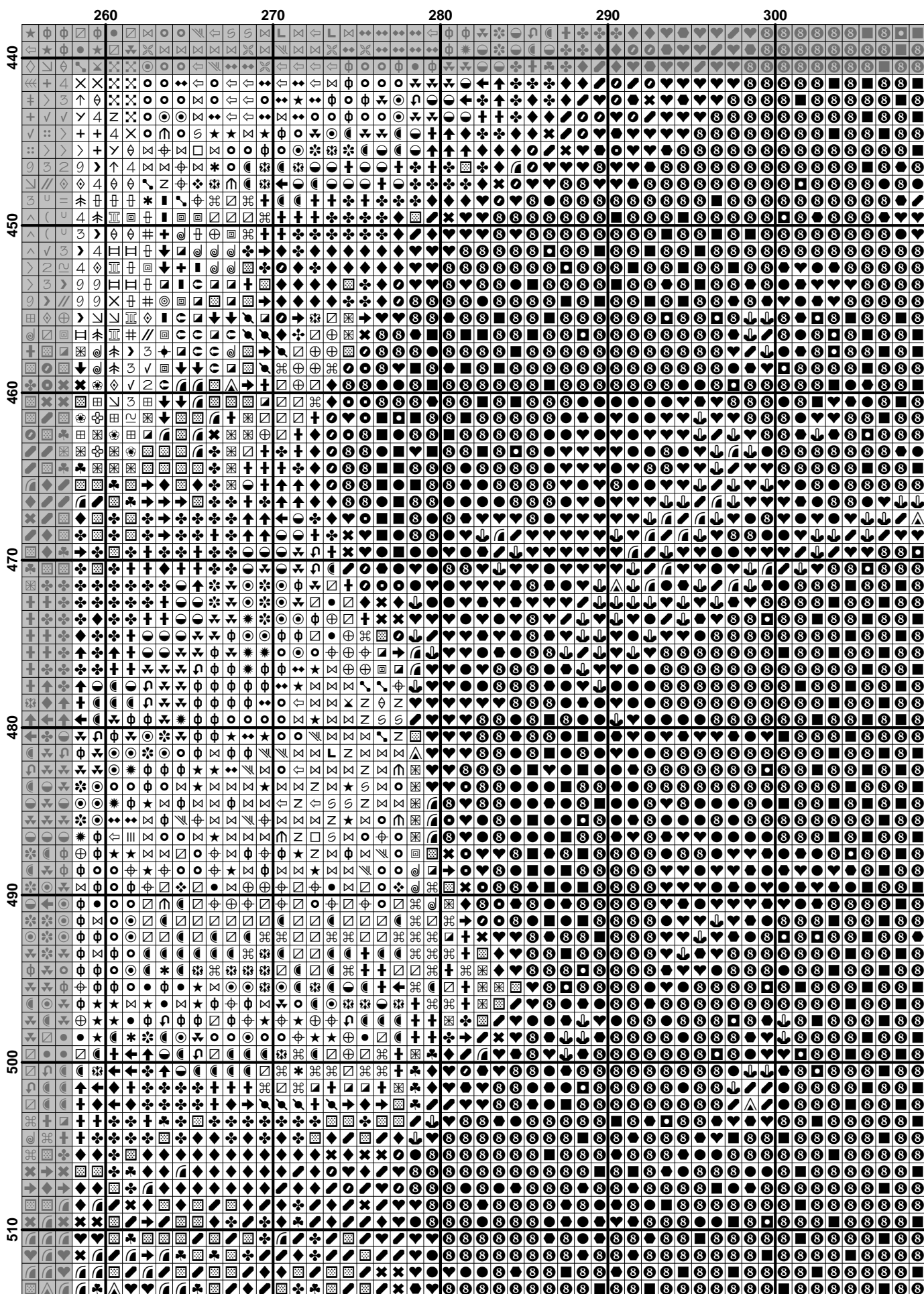
(115)

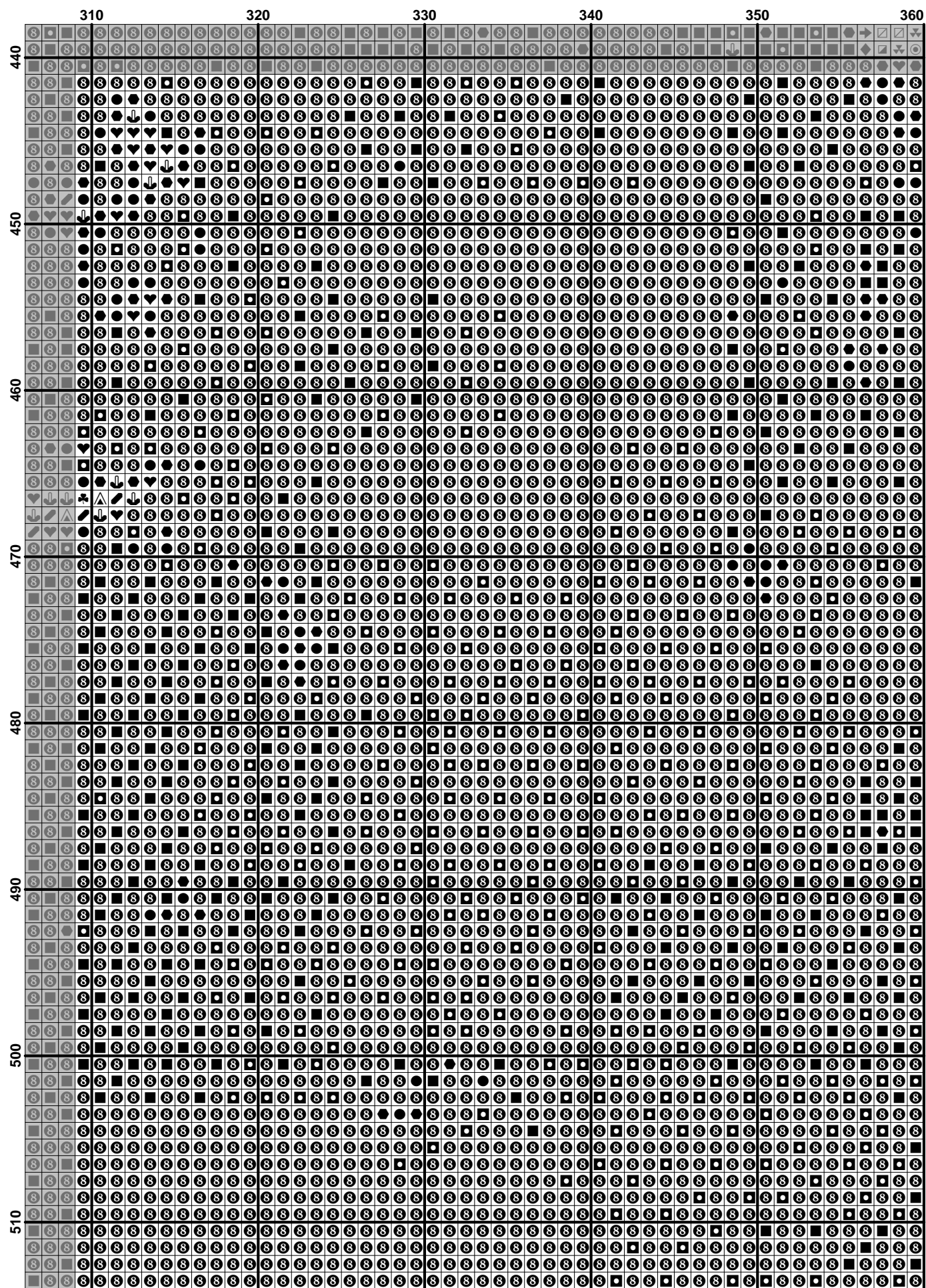


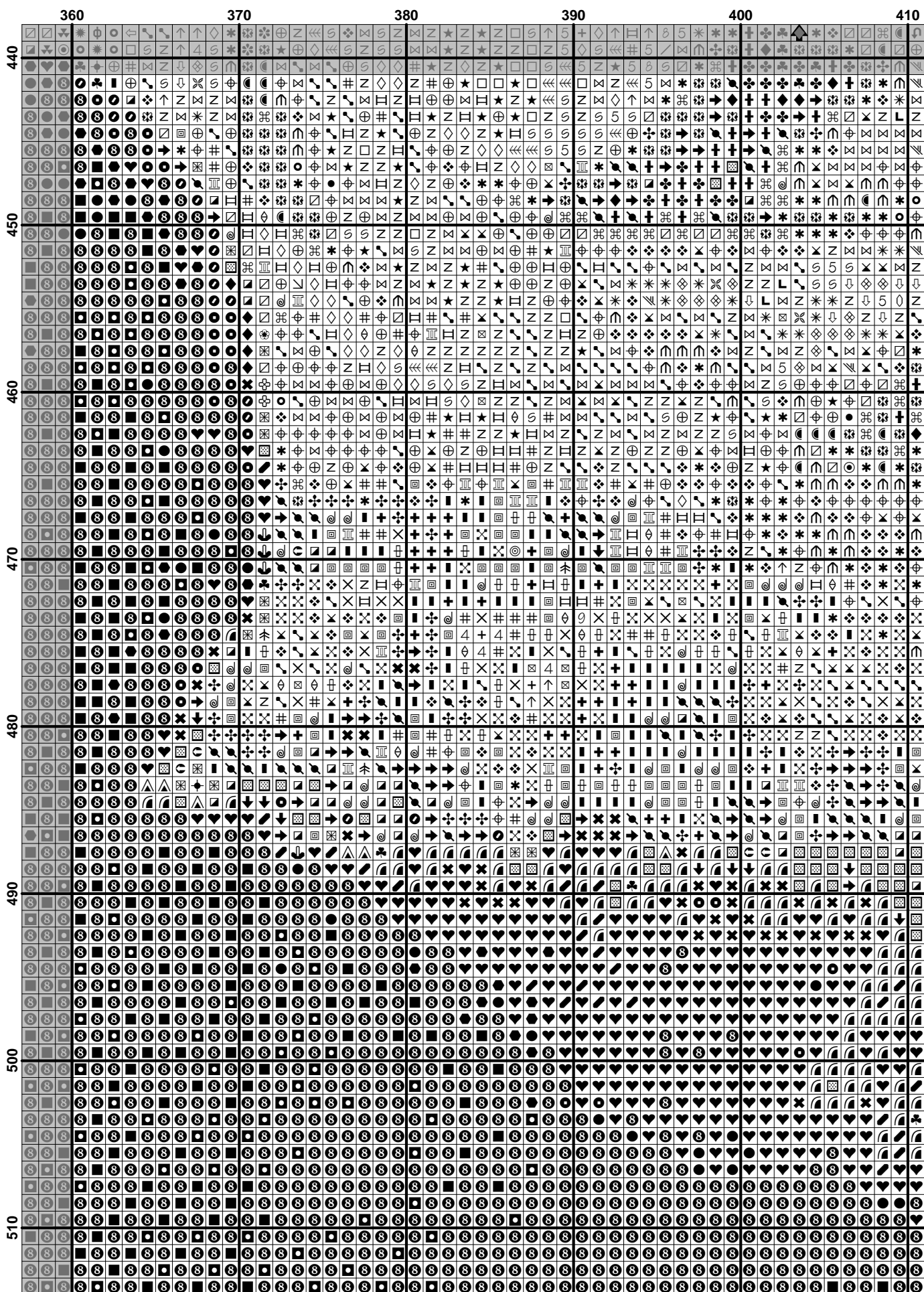


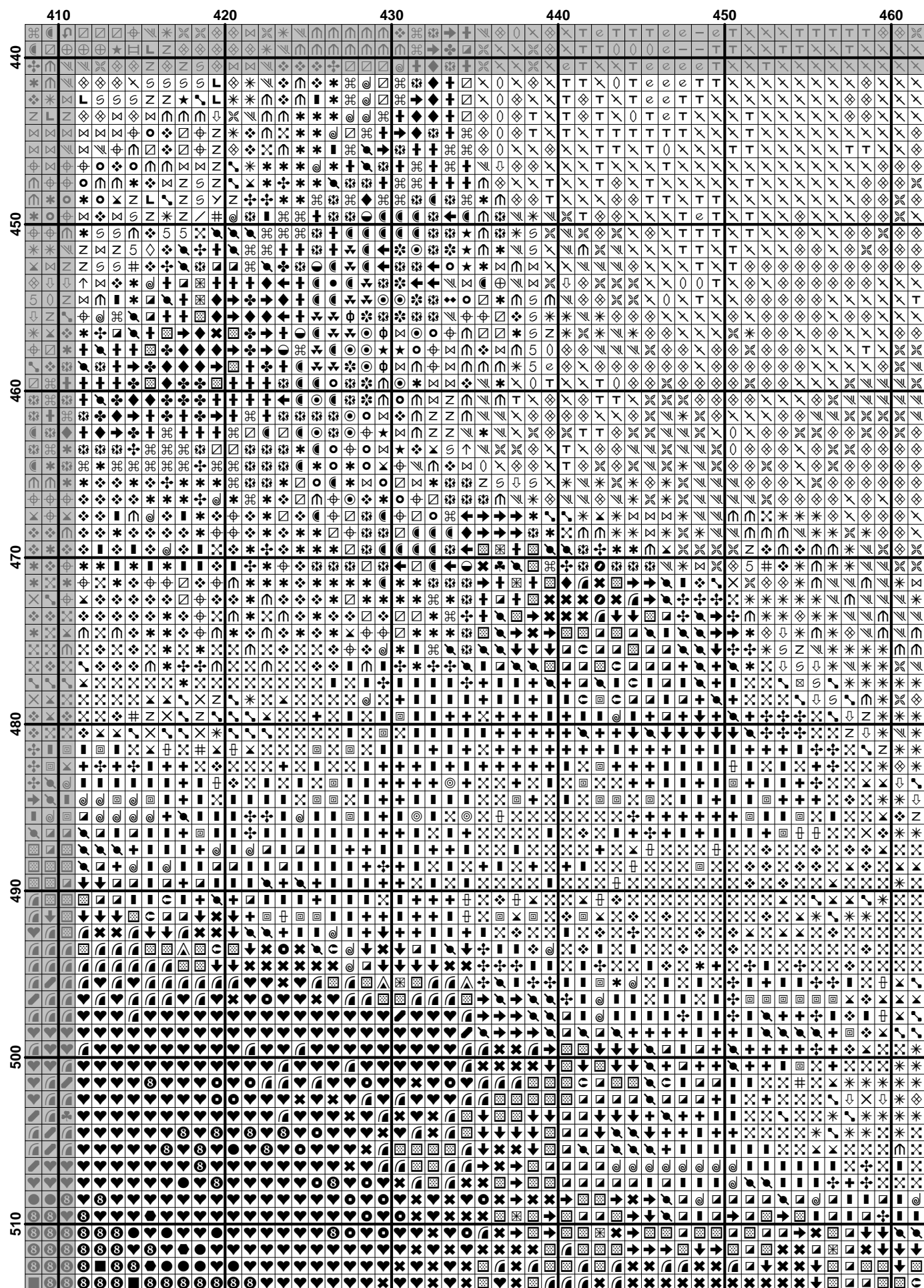


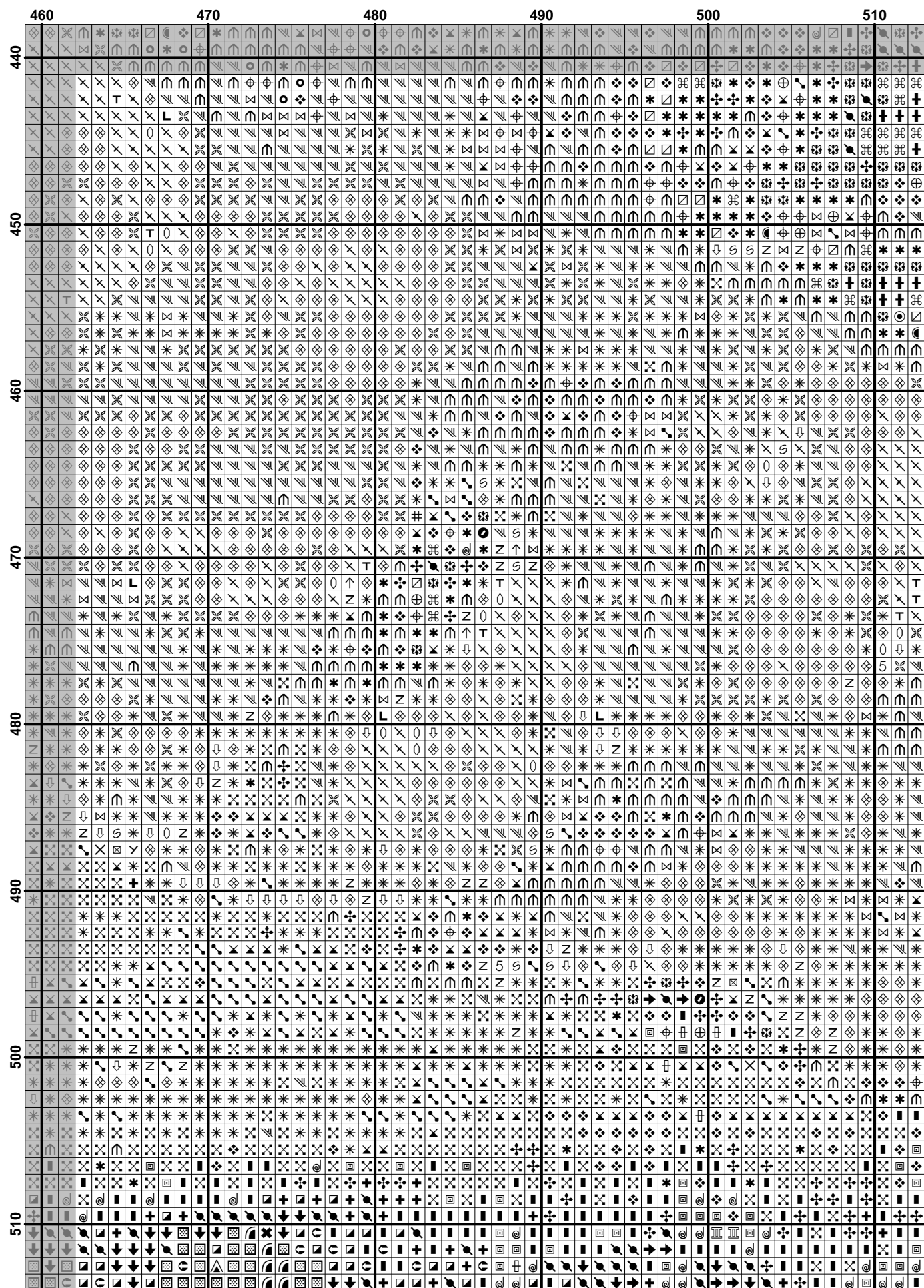


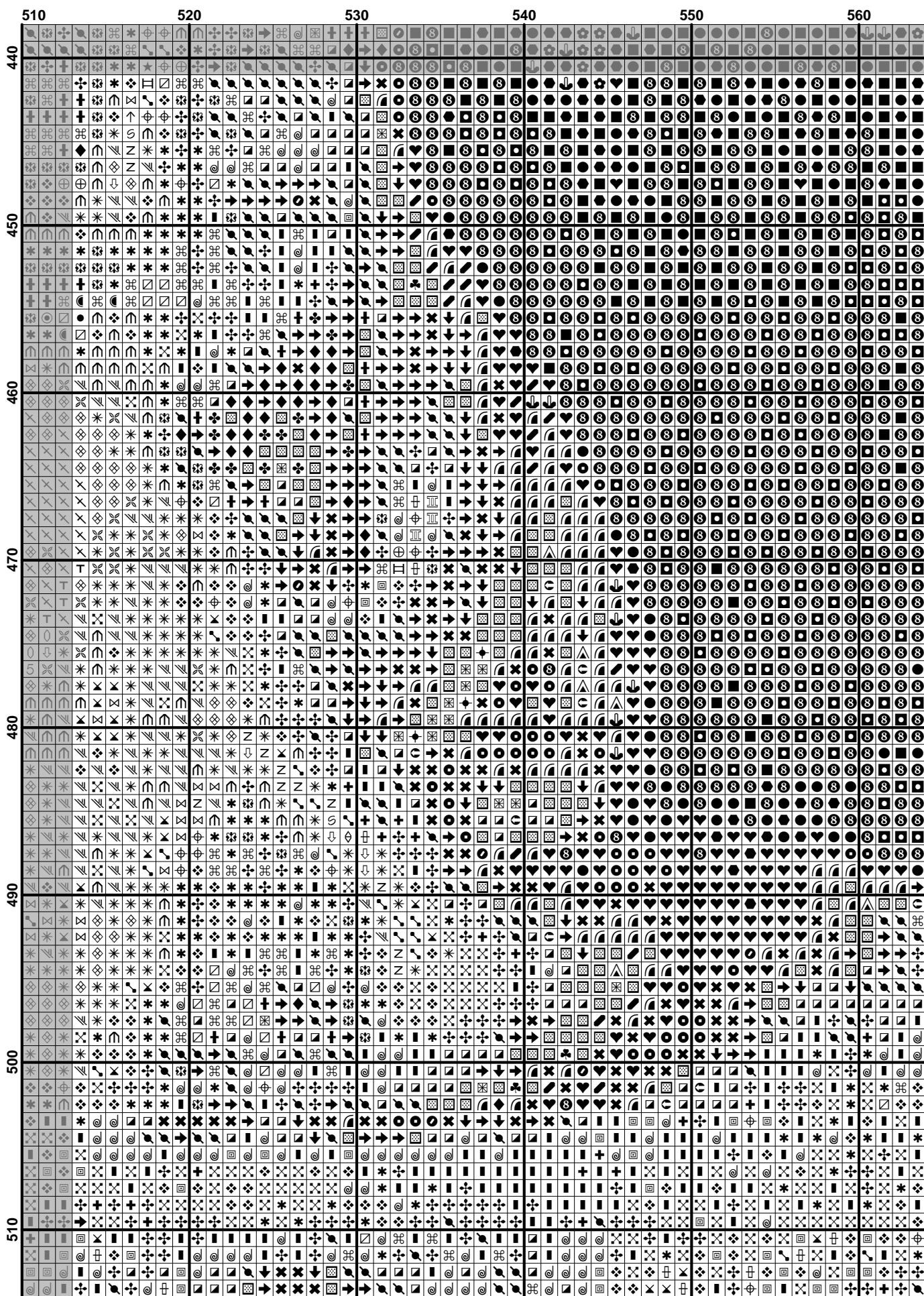


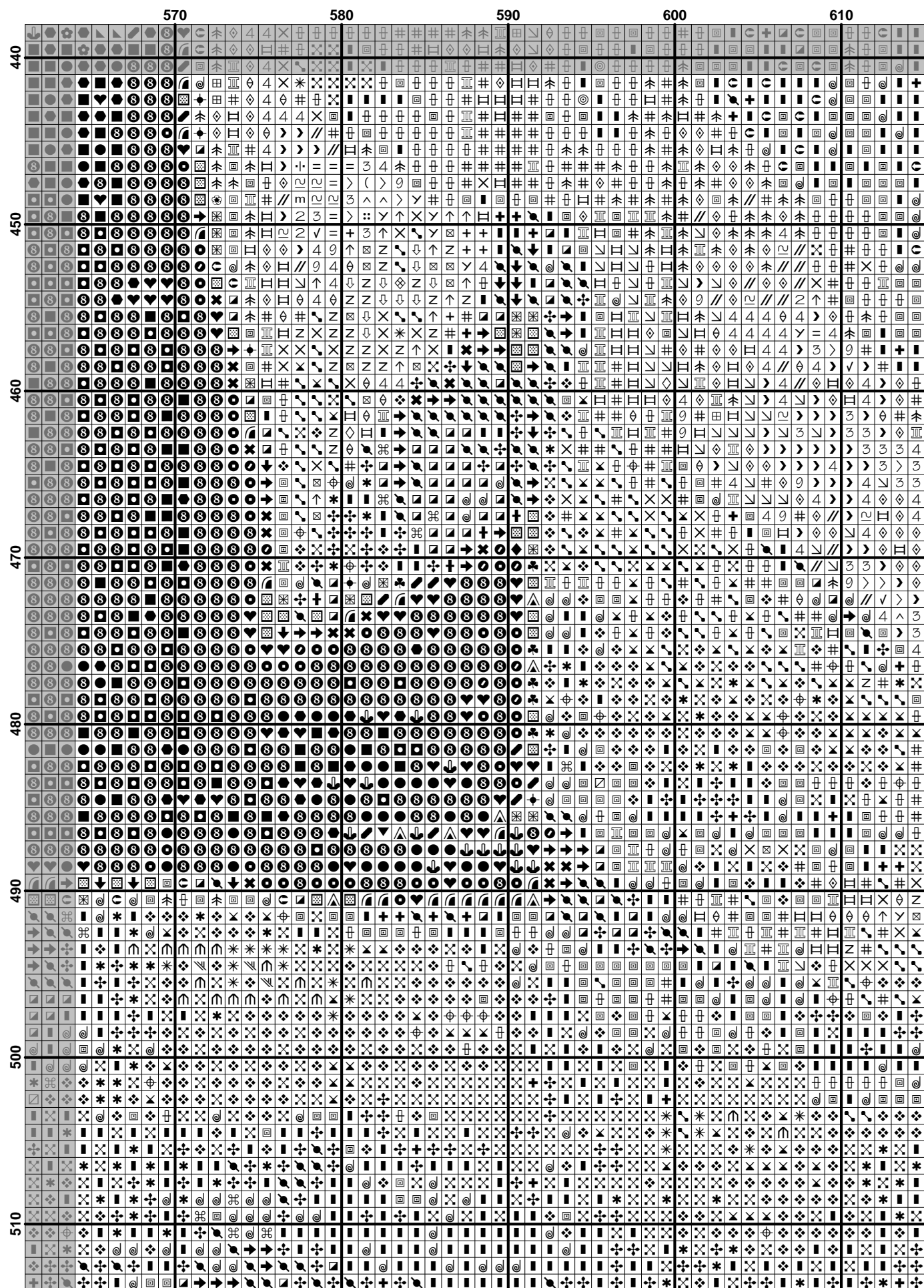


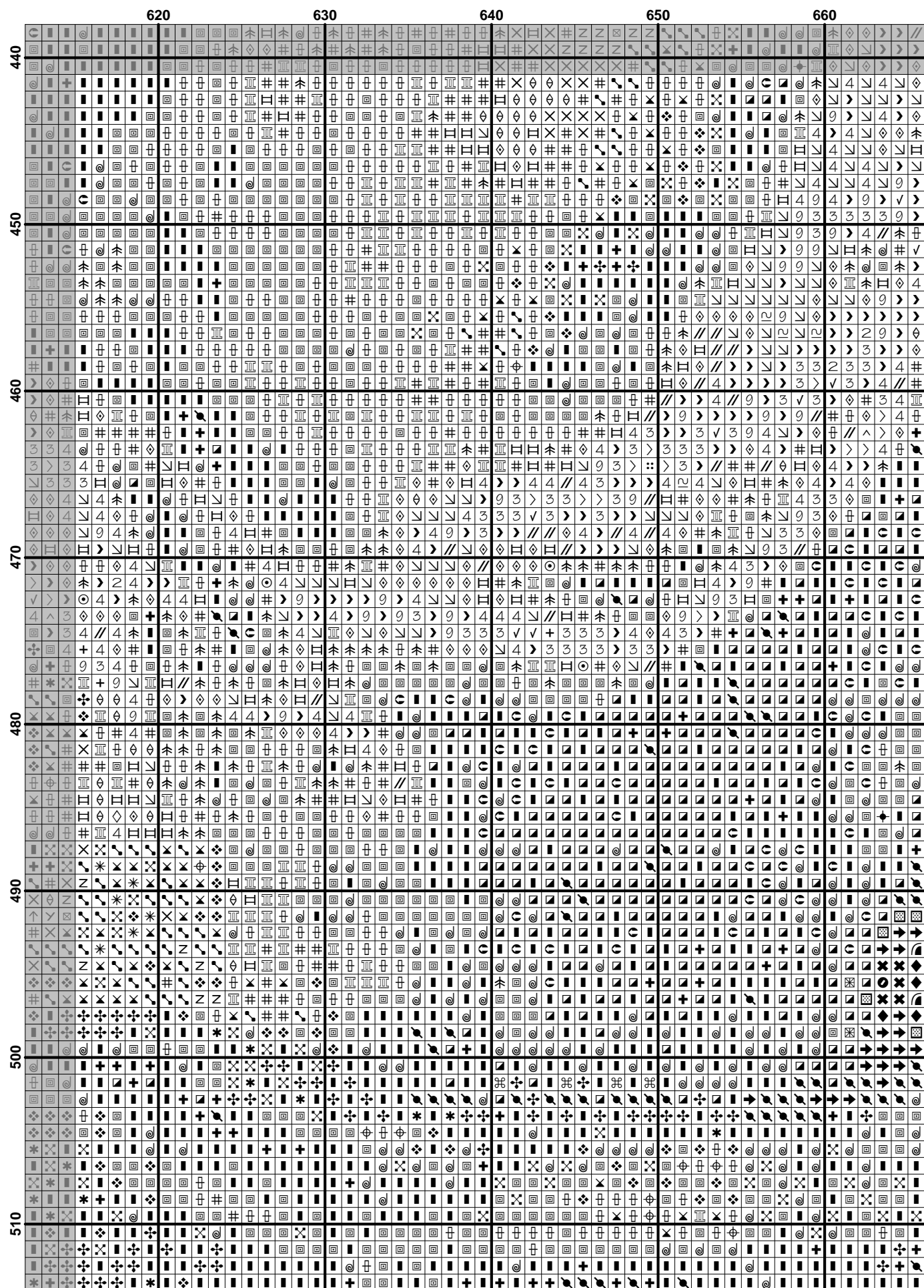




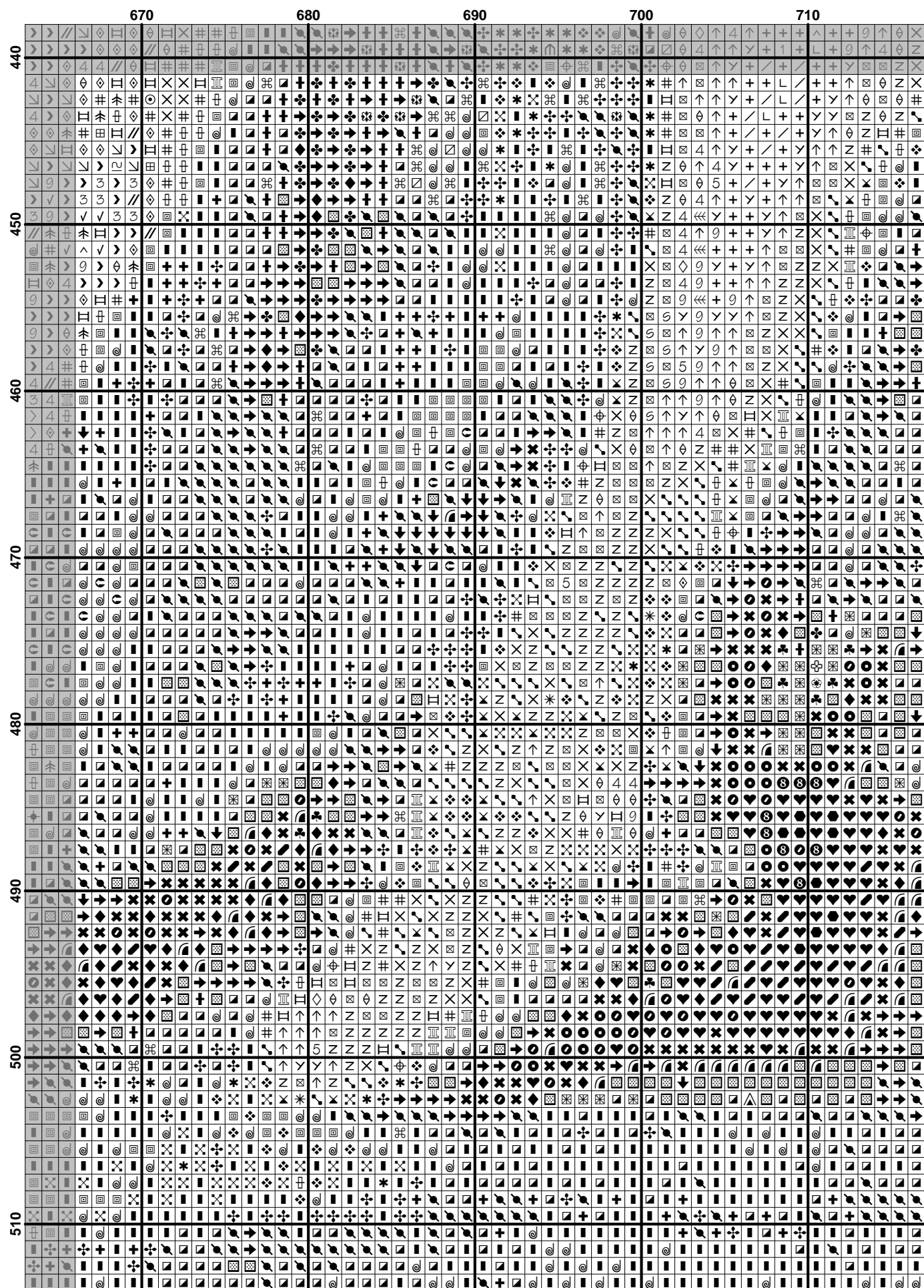


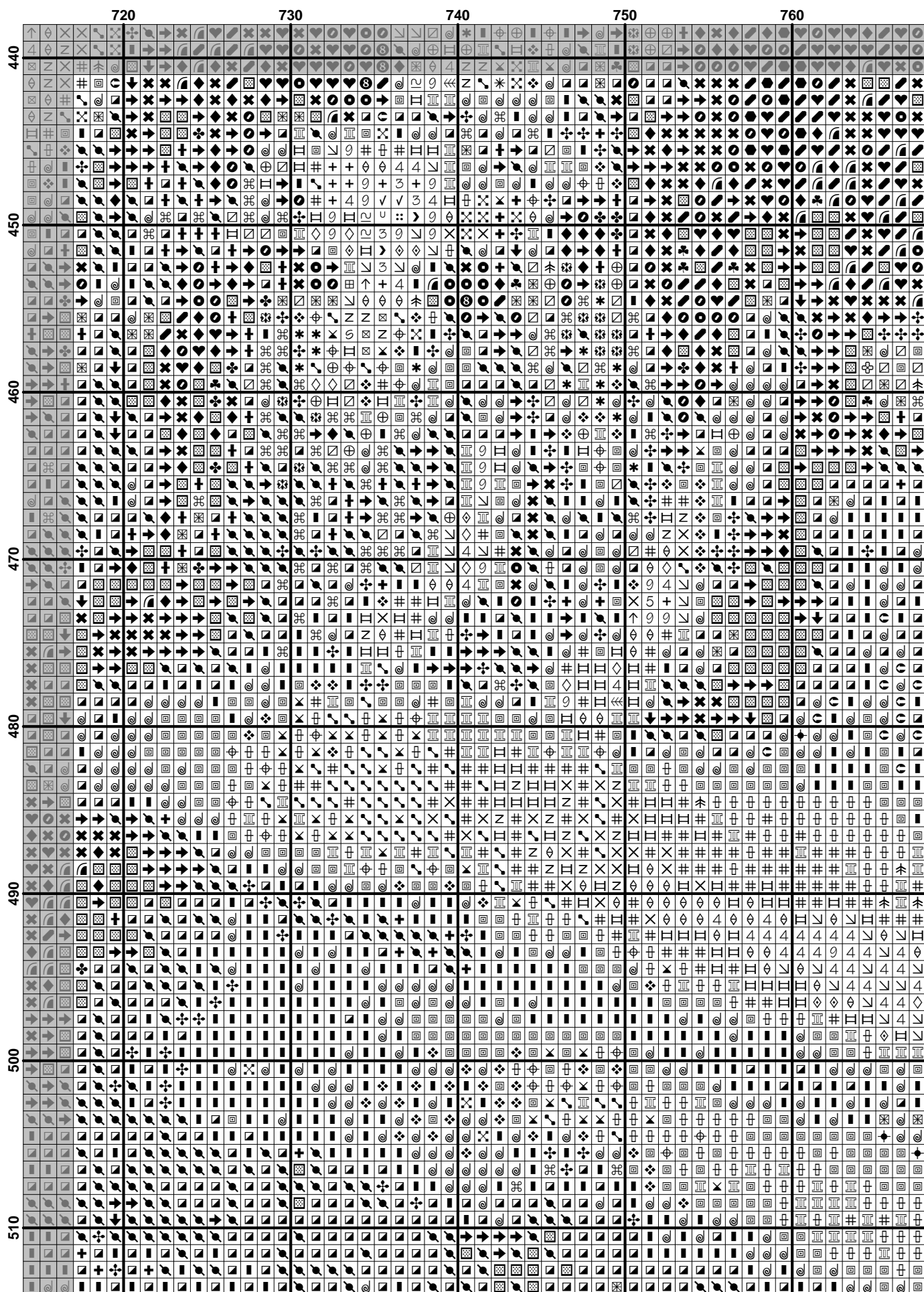


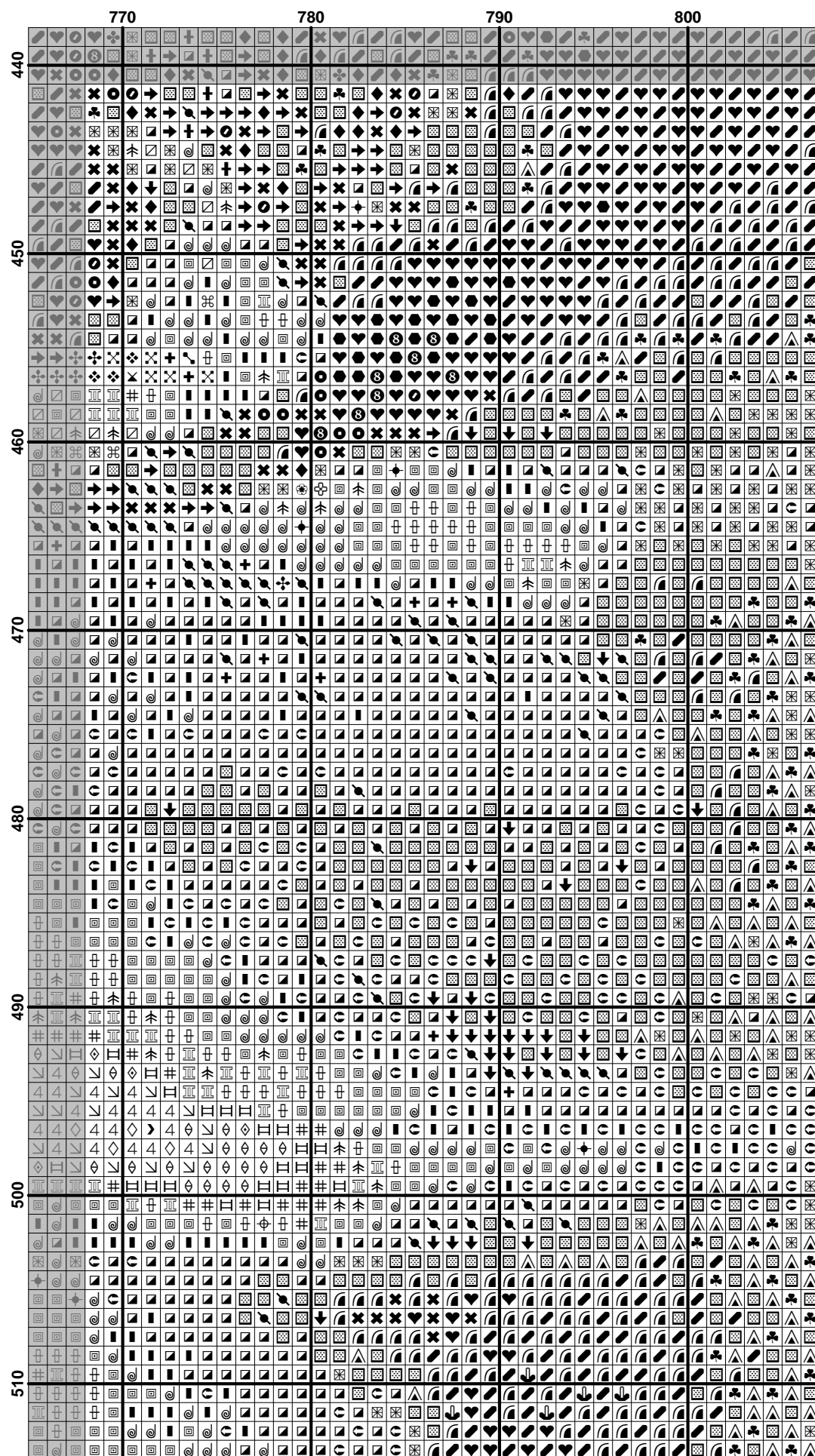












[illegible]

