

1317 The Kiss



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Instructions

Thank you for choosing Golden Kite products!
We hope you will have lots of fun with this cross-stitch pattern!

Fabric

Press the fabric with an iron if needed. A good thing to prevent the fabric from fraying is to machine zigzag the edges.

On large patterns, it is easiest to start from the upper left corner of the design. Make sure you have the proper margins before starting and that the fabric piece is of the correct size. The best way to verify this is to count all stitch positions on the fabric from the upper left corner downwards and to the right to make sure there is enough space for the design.

Some prefer to start in the center of the design instead. To locate the center of the fabric, fold the fabric in half both vertically and horizontally. The center is located where these two folds meet.

Stitches

Each length of DMC tread consists of six strands.

Use two of these strands for all stitches.

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

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

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

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

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The Kiss

Stitch Count	
Horizontal:	521
Vertical:	698

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:	95	37.12	127	49.82	83	32.48	111	43.59	74	28.875	99	38.75
Including Margins:	111	44	143	56	99	39	127	50	90	35	115	45
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	133	51.96	177	69.74	110	43.3	148	58.12	55	21.65	74	29.06
Including Margins:	149	58	193	76	126	50	164	65	71	28	90	36
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	53	20.78	71	27.89	51	19.98	68	26.82	49	19.24	65	25.83
Including Margins:	69	27	87	34	67	26	84	33	65	26	81	32
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	47	18.56	63	24.91	44	17.32	59	23.24	41	16.24	55	21.79
Including Margins:	63	25	79	31	60	24	75	30	57	23	71	28

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
	223	Shell Pink-LT
	310	Black
	315	Antique Mauve-VY DK
	372	Mustard-LT
	402	Mahogany-VY LT
	407	Desert Sand-DK
	422	Hazelnut Brown-LT
	436	Tan
	437	Tan-LT
	451	Shell Gray-DK
	452	Shell Gray-MD
	535	Ash Gray-VY LT
	543	Beige Brown-UL VY LT
	612	Drab Brown-LT
	640	Beige Gray-VY DK
	642	Beige Gray-DK
	645	Beaver Gray-VY DK
	646	Beaver Gray-DK
	738	Tan-VY LT
	739	Tan-UL VY LT
	746	Off White
	754	Peach-LT
	758	Terra Cotta-VY LT
	838	Beige Brown-VY DK
	839	Beige Brown-DK
	840	Beige Brown-MD
	841	Beige Brown-LT
	842	Beige Brown-VY LT
	844	Beaver Brown-UL DK
	902	Garnet-VY DK
	938	Coffee Brown-UL DK
	945	Tawny
	948	Peach-VY LT
	950	Desert Sand-LT

<	951	Tawny-LT
	3021	Brown Gray-VY DK
	3022	Brown Gray-MD
	3031	Mocha Brown-VY DK
	3032	Mocha Brown-MD
	3045	Yellow Beige-DK
	3052	Green Gray-MD
	3064	Desert Sand
	3371	Black Brown
	3722	Shell Pink-MD
	3726	Antique Mauve-DK
	3731	Dusty Rose-VY DK
	3740	Antique Violet-DK
	3770	Tawny-VY LT
	3772	Desert Sand-VY DK
	3774	Desert Sand-VY LT
	3778	Terra Cotta-LT
	3779	Terra Cotta-UL VY LT
	3782	Mocha Brown-LT
	3787	Brown Gray-DK
	3790	Beige Gray-UL DK
	3802	Antique Mauve-VY DK
	3803	Mauve-MD
	3823	Yellow-UL Pale
	3824	Apricot-LT
	3825	Pumpkin-Pale
	3827	Golden Brown-Pale
	3832	Raspberry-MD
	3856	Mahogany-UL VY LT
	3859	Rosewood-LT
	3860	Cocoa
	3861	Cocoa-LT
	3863	Mocha Beige-MD
	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
▷	945	Tawny	3823	Yellow-UL Pale
L	745	Yellow-LT Pale	945	Tawny
e	3825	Pumpkin-Pale	3855	Autumn Gold-LT
•	353	Peach	3823	Yellow-UL Pale
◆	838	Beige Brown-VY DK	839	Beige Brown-DK
▧	3021	Brown Gray-VY DK	3787	Brown Gray-DK
▩	223	Shell Pink-LT	612	Drab Brown-LT
■	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
●	3371	Black Brown	3799	Pewter Gray-VY DK
▲	645	Beaver Gray-VY DK	646	Beaver Gray-DK
⊕	839	Beige Brown-DK	3787	Brown Gray-DK
♦	3860	Cocoa	3863	Mocha Beige-MD
▩	315	Antique Mauve-VY DK	3860	Cocoa
▲	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
◦	353	Peach	746	Off White
⊕	371	Mustard	3863	Mocha Beige-MD
◐	535	Ash Gray-VY LT	3787	Brown Gray-DK
⊕	3824	Apricot-LT	3855	Autumn Gold-LT
«	746	Off White	3823	Yellow-UL Pale
✱	3772	Desert Sand-VY DK	3860	Cocoa
✕	738	Tan-VY LT	3782	Mocha Brown-LT
✱	3726	Antique Mauve-DK	3772	Desert Sand-VY DK
✕	632	Desert Sand-UL VY DK	3802	Antique Mauve-VY DK
/	842	Beige Brown-VY LT	3774	Desert Sand-VY LT
◐	844	Beaver Brown-UL DK	3021	Brown Gray-VY DK
↓	3021	Brown Gray-VY DK	3834	Grape-DK
⊕	451	Shell Gray-DK	3860	Cocoa
3	842	Beige Brown-VY LT	950	Desert Sand-LT
✱	3722	Shell Pink-MD	3832	Raspberry-MD
✓	738	Tan-VY LT	3064	Desert Sand
◐	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
◐	640	Beige Gray-VY DK	3787	Brown Gray-DK
•	422	Hazelnut Brown-LT	437	Tan-LT
✕	838	Beige Brown-VY DK	844	Beaver Brown-UL DK
▧	640	Beige Gray-VY DK	3860	Cocoa
›	223	Shell Pink-LT	371	Mustard
◐	451	Shell Gray-DK	3032	Mocha Brown-MD
◐	640	Beige Gray-VY DK	3032	Mocha Brown-MD
▩	839	Beige Brown-DK	844	Beaver Brown-UL DK
⊕	356	Terra Cotta-MD	371	Mustard
✱	839	Beige Brown-DK	3860	Cocoa
↑	839	Beige Brown-DK	3021	Brown Gray-VY DK
◀	3712	Salmon-MD	3832	Raspberry-MD
•	3041	Antique Violet-MD	3860	Cocoa
✕	645	Beaver Gray-VY DK	3740	Antique Violet-DK
◐	223	Shell Pink-LT	3722	Shell Pink-MD
♥	3823	Yellow-UL Pale	3824	Apricot-LT
◀	840	Beige Brown-MD	3787	Brown Gray-DK
◐	645	Beaver Gray-VY DK	3052	Green Gray-MD
▩	3787	Brown Gray-DK	3860	Cocoa
▲	372	Mustard-LT	841	Beige Brown-LT
⊕	3740	Antique Violet-DK	3787	Brown Gray-DK
➔	839	Beige Brown-DK	3834	Grape-DK

♣	535	Ash Gray-VY LT	3834	Grape-DK
↓	535	Ash Gray-VY LT	839	Beige Brown-DK
✠	371	Mustard	3726	Antique Mauve-DK
☐	371	Mustard	3859	Rosewood-LT
▲	315	Antique Mauve-VY DK	632	Desert Sand-UL VY DK
♣	315	Antique Mauve-VY DK	3787	Brown Gray-DK
☐	372	Mustard-LT	3064	Desert Sand
☐	437	Tan-LT	3064	Desert Sand
☐	738	Tan-VY LT	945	Tawny
7	437	Tan-LT	945	Tawny
)	353	Peach	745	Yellow-LT Pale
^	745	Yellow-LT Pale	3823	Yellow-UL Pale
8	223	Shell Pink-LT	3859	Rosewood-LT
H	371	Mustard	3722	Shell Pink-MD
2	402	Mahogany-VY LT	437	Tan-LT
☐	945	Tawny	3825	Pumpkin-Pale
●	839	Beige Brown-DK	3740	Antique Violet-DK
●	315	Antique Mauve-VY DK	3726	Antique Mauve-DK
6	3823	Yellow-UL Pale	3825	Pumpkin-Pale
✧	3328	Salmon-DK	3825	Pumpkin-Pale
√	3824	Apricot-LT	3825	Pumpkin-Pale
○	3340	Apricot-MD	3341	Apricot
..	3825	Pumpkin-Pale	3340	Apricot-MD
m	3341	Apricot	3825	Pumpkin-Pale
\$	3340	Apricot-MD	3712	Salmon-MD
×	3341	Apricot	3712	Salmon-MD
8	3825	Pumpkin-Pale	745	Yellow-LT Pale
●	3340	Apricot-MD	892	Carnation-MD
ι	951	Tawny-LT	3823	Yellow-UL Pale
8	437	Tan-LT	3778	Terra Cotta-LT
#	892	Carnation-MD	3341	Apricot
ι	223	Shell Pink-LT	3032	Mocha Brown-MD
n	745	Yellow-LT Pale	746	Off White
l	945	Tawny	746	Off White
∩	3722	Shell Pink-MD	3731	Dusty Rose-VY DK
L	3731	Dusty Rose-VY DK	3832	Raspberry-MD
=	3350	Dusty Rose-UL DK	3687	Mauve
☐	3350	Dusty Rose-UL DK	3803	Mauve-MD
↖	612	Drab Brown-LT	3032	Mocha Brown-MD
★	451	Shell Gray-DK	3041	Antique Violet-MD
✕	3726	Antique Mauve-DK	451	Shell Gray-DK
✕	3023	Brown Gray-LT	3861	Cocoa-LT
♣	3726	Antique Mauve-DK	3032	Mocha Brown-MD
∩	3350	Dusty Rose-UL DK	3726	Antique Mauve-DK
*	3722	Shell Pink-MD	3726	Antique Mauve-DK
∩	754	Peach-LT	3774	Desert Sand-VY LT
+	739	Tan-UL VY LT	945	Tawny
☐	746	Off White	3824	Apricot-LT
∞	746	Off White	3855	Autumn Gold-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	
223	Shell Pink-LT	1406	553	1339	527	1205	474
310	Black	120	47	114	44	103	40
315	Antique Mauve-VY DK	916	360	872	343	785	309
353	Peach	1502	591	1430	562	1287	506
356	Terra Cotta-MD	14	5	13	5	12	4
371	Mustard	629	247	599	235	539	212
372	Mustard-LT	910	358	866	340	780	307
402	Mahogany-VY LT	80	31	76	29	68	26
407	Desert Sand-DK	857	337	816	321	734	288
422	Hazelnut Brown-LT	294	115	280	110	252	99
436	Tan	23	9	22	8	20	7
437	Tan-LT	1063	418	1012	398	911	358
451	Shell Gray-DK	1852	729	1764	694	1588	625
452	Shell Gray-MD	87	34	83	32	74	29
535	Ash Gray-VY LT	1268	499	1208	475	1087	427
543	Beige Brown-UL VY LT	12	4	12	4	11	4
612	Drab Brown-LT	681	268	648	255	583	229
632	Desert Sand-UL VY DK	99	38	94	37	85	33
640	Beige Gray-VY DK	1189	468	1133	446	1019	401
642	Beige Gray-DK	46	18	44	17	39	15
645	Beaver Gray-VY DK	2109	830	2008	790	1807	711
646	Beaver Gray-DK	68	26	65	25	58	22
738	Tan-VY LT	2249	885	2142	843	1928	759
739	Tan-UL VY LT	652	256	621	244	559	220
745	Yellow-LT Pale	1953	768	1860	732	1674	659
746	Off White	8930	3515	8505	3348	7654	3013
754	Peach-LT	427	168	407	160	366	144
758	Terra Cotta-VY LT	266	104	253	99	228	89
838	Beige Brown-VY DK	2488	979	2369	932	2132	839
839	Beige Brown-DK	3660	1440	3485	1372	3137	1235
840	Beige Brown-MD	130	51	124	48	112	44
841	Beige Brown-LT	697	274	664	261	598	235
842	Beige Brown-VY LT	479	188	456	179	410	161
844	Beaver Brown-UL DK	1773	698	1688	664	1519	598
892	Carnation-MD	2	1	2	1	2	1
902	Garnet-VY DK	55	21	52	20	47	18
938	Coffee Brown-UL DK	1586	624	1511	594	1360	535
945	Tawny	3054	1202	2908	1144	2617	1030
948	Peach-VY LT	45	17	43	16	39	15
950	Desert Sand-LT	376	148	358	140	322	126
951	Tawny-LT	1392	548	1326	522	1193	469
3021	Brown Gray-VY DK	3658	1440	3484	1371	3136	1234
3022	Brown Gray-MD	24	9	23	9	20	7
3023	Brown Gray-LT	133	52	127	50	114	44
3031	Mocha Brown-VY DK	1112	437	1059	416	953	375
3032	Mocha Brown-MD	1393	548	1327	522	1194	470
3041	Antique Violet-MD	654	257	623	245	561	220
3045	Yellow Beige-DK	14	5	13	5	12	4
3052	Green Gray-MD	25	9	24	9	21	8
3064	Desert Sand	2559	1007	2438	959	2194	863
3328	Salmon-DK	3	1	3	1	3	1
3340	Apricot-MD	24	9	23	9	20	7
3341	Apricot	57	22	54	21	48	18

3350	Dusty Rose-UL DK	653	257	622	244	560	220
3371	Black Brown	2933	1154	2793	1099	2514	989
3687	Mauve	535	210	510	200	459	180
3712	Salmon-MD	32	12	30	11	27	10
3722	Shell Pink-MD	1051	413	1001	394	901	354
3726	Antique Mauve-DK	1504	592	1432	563	1289	507
3731	Dusty Rose-VY DK	941	370	896	352	807	317
3740	Antique Violet-DK	6026	2372	5739	2259	5165	2033
3770	Tawny-VY LT	68	26	64	25	58	22
3772	Desert Sand-VY DK	555	218	528	207	475	187
3774	Desert Sand-VY LT	1111	437	1058	416	952	374
3778	Terra Cotta-LT	388	152	369	145	332	130
3779	Terra Cotta-UL VY LT	37	14	36	14	32	12
3782	Mocha Brown-LT	470	185	448	176	403	158
3787	Brown Gray-DK	5057	1990	4816	1896	4334	1706
3790	Beige Gray-UL DK	34	13	32	12	29	11
3799	Pewter Gray-VY DK	3122	1229	2974	1170	2676	1053
3802	Antique Mauve-VY DK	229	90	218	85	196	77
3803	Mauve-MD	75	29	72	28	64	25
3823	Yellow-UL Pale	5103	2009	4860	1913	4374	1722
3824	Apricot-LT	889	350	847	333	762	300
3825	Pumpkin-Pale	628	247	598	235	538	211
3827	Golden Brown-Pale	7	2	7	2	6	2
3832	Raspberry-MD	1166	459	1111	437	999	393
3834	Grape-DK	2641	1039	2515	990	2264	891
3855	Autumn Gold-LT	939	369	895	352	805	316
3856	Mahogany-UL VY LT	416	163	396	155	356	140
3859	Rosewood-LT	768	302	731	287	658	259
3860	Cocoa	6987	2750	6654	2619	5989	2357
3861	Cocoa-LT	887	349	844	332	760	299
3863	Mocha Beige-MD	83	32	79	31	71	27
3864	Mocha Beige-LT	958	377	912	359	821	323
3865	Winter White	1202	473	1145	450	1030	405

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	2169	853	1808	711	904	356
310	Black	185	72	155	60	77	30
315	Antique Mauve-VY DK	1413	556	1178	464	589	232
353	Peach	2317	911	1931	759	965	380
356	Terra Cotta-MD	22	7	18	6	9	3
371	Mustard	970	382	809	318	404	159
372	Mustard-LT	1404	553	1170	461	585	230
402	Mahogany-VY LT	122	47	102	39	51	20
407	Desert Sand-DK	1321	518	1101	432	551	216
422	Hazelnut Brown-LT	454	178	378	149	189	74
436	Tan	36	13	30	11	15	5
437	Tan-LT	1640	644	1367	537	683	269
451	Shell Gray-DK	2858	1125	2382	938	1191	469
452	Shell Gray-MD	133	52	111	44	56	22
535	Ash Gray-VY LT	1957	769	1631	641	815	320
543	Beige Brown-UL VY LT	20	7	17	6	8	3
612	Drab Brown-LT	1049	412	875	344	437	172
632	Desert Sand-UL VY DK	153	59	128	50	64	25
640	Beige Gray-VY DK	1834	722	1529	602	764	301

642	Beige Gray-DK	70	27	59	23	29	11
645	Beaver Gray-VY DK	3253	1280	2711	1067	1355	533
646	Beaver Gray-DK	104	40	87	33	44	17
738	Tan-VY LT	3470	1366	2892	1139	1446	569
739	Tan-UL VY LT	1006	396	839	330	419	165
745	Yellow-LT Pale	3013	1186	2511	989	1256	494
746	Off White	13777	5423	11481	4520	5741	2260
754	Peach-LT	659	259	549	216	275	108
758	Terra Cotta-VY LT	410	160	342	134	171	67
838	Beige Brown-VY DK	3838	1510	3198	1259	1599	629
839	Beige Brown-DK	5647	2223	4706	1853	2353	926
840	Beige Brown-MD	202	79	168	66	84	33
841	Beige Brown-LT	1076	423	897	353	449	176
842	Beige Brown-VY LT	738	290	615	242	308	121
844	Beaver Brown-UL DK	2734	1076	2279	897	1139	449
892	Carnation-MD	4	2	3	2	2	1
902	Garnet-VY DK	85	32	71	27	35	14
938	Coffee Brown-UL DK	2448	963	2040	803	1020	401
945	Tawny	4711	1854	3926	1545	1963	773
948	Peach-VY LT	70	27	59	23	29	11
950	Desert Sand-LT	580	227	483	189	242	95
951	Tawny-LT	2147	844	1790	704	895	352
3021	Brown Gray-VY DK	5645	2221	4704	1851	2352	926
3022	Brown Gray-MD	36	13	30	11	15	5
3023	Brown Gray-LT	205	79	171	66	86	33
3031	Mocha Brown-VY DK	1715	675	1430	563	715	281
3032	Mocha Brown-MD	2149	846	1791	705	896	353
3041	Antique Violet-MD	1010	396	842	330	421	165
3045	Yellow Beige-DK	22	7	18	6	9	3
3052	Green Gray-MD	38	14	32	12	16	6
3064	Desert Sand	3949	1553	3291	1295	1646	647
3328	Salmon-DK	5	2	5	2	2	1
3340	Apricot-MD	36	13	30	11	15	5
3341	Apricot	86	32	72	27	36	14
3350	Dusty Rose-UL DK	1008	396	840	330	420	165
3371	Black Brown	4525	1780	3771	1484	1886	742
3687	Mauve	826	324	689	270	344	135
3712	Salmon-MD	49	18	41	15	20	8
3722	Shell Pink-MD	1622	637	1352	531	676	266
3726	Antique Mauve-DK	2320	913	1934	761	967	380
3731	Dusty Rose-VY DK	1453	571	1211	476	605	238
3740	Antique Violet-DK	9297	3659	7748	3050	3874	1525
3770	Tawny-VY LT	104	40	87	33	44	17
3772	Desert Sand-VY DK	855	337	713	281	356	140
3774	Desert Sand-VY LT	1714	673	1428	561	714	281
3778	Terra Cotta-LT	598	234	498	195	249	98
3779	Terra Cotta-UL VY LT	58	22	48	18	24	9
3782	Mocha Brown-LT	725	284	605	237	302	119
3787	Brown Gray-DK	7801	3071	6501	2559	3251	1280
3790	Beige Gray-UL DK	52	20	44	17	22	8
3799	Pewter Gray-VY DK	4817	1895	4014	1580	2007	790
3802	Antique Mauve-VY DK	353	139	294	116	147	58
3803	Mauve-MD	115	45	96	38	48	19
3823	Yellow-UL Pale	7873	3100	6561	2583	3281	1292
3824	Apricot-LT	1372	540	1143	450	572	225
3825	Pumpkin-Pale	968	380	807	317	404	158
3827	Golden Brown-Pale	11	4	9	3	5	2
3832	Raspberry-MD	1798	707	1499	590	749	295
3834	Grape-DK	4075	1604	3396	1337	1698	668

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3855	Autumn Gold-LT	1449	569	1208	474	604	237
3856	Mahogany-UL VY LT	641	252	534	210	267	105
3859	Rosewood-LT	1184	466	987	389	494	194
3860	Cocoa	10780	4243	8984	3536	4492	1768
3861	Cocoa-LT	1368	538	1140	449	570	224
3863	Mocha Beige-MD	128	49	107	41	53	20
3864	Mocha Beige-LT	1478	581	1232	485	616	242
3865	Winter White	1854	729	1545	608	773	304

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	868	341	834	328	803	316
310	Black	74	29	71	28	69	27
315	Antique Mauve-VY DK	565	222	543	214	523	206
353	Peach	927	364	891	350	858	337
356	Terra Cotta-MD	9	3	8	3	8	3
371	Mustard	388	153	373	147	359	141
372	Mustard-LT	562	221	540	213	520	205
402	Mahogany-VY LT	49	19	47	18	45	17
407	Desert Sand-DK	528	207	508	199	489	192
422	Hazelnut Brown-LT	181	71	174	69	168	66
436	Tan	14	5	14	5	13	5
437	Tan-LT	656	258	631	248	607	239
451	Shell Gray-DK	1143	450	1099	433	1059	417
452	Shell Gray-MD	53	21	51	20	49	19
535	Ash Gray-VY LT	783	307	753	296	725	285
543	Beige Brown-UL VY LT	8	3	8	3	7	3
612	Drab Brown-LT	420	165	404	159	389	153
632	Desert Sand-UL VY DK	61	24	59	23	57	22
640	Beige Gray-VY DK	734	289	705	278	679	267
642	Beige Gray-DK	28	11	27	10	26	10
645	Beaver Gray-VY DK	1301	512	1251	492	1205	474
646	Beaver Gray-DK	42	16	40	15	39	15
738	Tan-VY LT	1388	546	1335	525	1285	506
739	Tan-UL VY LT	402	158	387	152	373	147
745	Yellow-LT Pale	1205	474	1159	456	1116	439
746	Off White	5511	2169	5299	2086	5103	2009
754	Peach-LT	264	104	253	100	244	96
758	Terra Cotta-VY LT	164	64	158	62	152	59
838	Beige Brown-VY DK	1535	604	1476	581	1421	559
839	Beige Brown-DK	2259	889	2172	855	2091	823
840	Beige Brown-MD	81	32	78	30	75	29
841	Beige Brown-LT	431	169	414	163	399	157
842	Beige Brown-VY LT	295	116	284	111	273	107
844	Beaver Brown-UL DK	1094	431	1052	414	1013	399
892	Carnation-MD	1	1	1	1	1	1
902	Garnet-VY DK	34	13	33	12	31	12
938	Coffee Brown-UL DK	979	385	942	370	907	357
945	Tawny	1884	742	1812	713	1745	687
948	Peach-VY LT	28	11	27	10	26	10
950	Desert Sand-LT	232	91	223	87	215	84
951	Tawny-LT	859	338	826	325	795	313
3021	Brown Gray-VY DK	2258	888	2171	854	2091	823
3022	Brown Gray-MD	14	5	14	5	13	5
3023	Brown Gray-LT	82	32	79	30	76	29

3031	Mocha Brown-VY DK	686	270	660	260	635	250
3032	Mocha Brown-MD	860	338	827	325	796	313
3041	Antique Violet-MD	404	158	388	152	374	147
3045	Yellow Beige-DK	9	3	8	3	8	3
3052	Green Gray-MD	15	6	15	6	14	5
3064	Desert Sand	1580	621	1519	597	1463	575
3328	Salmon-DK	2	1	2	1	2	1
3340	Apricot-MD	14	5	14	5	13	5
3341	Apricot	35	13	33	12	32	12
3350	Dusty Rose-UL DK	403	158	388	152	373	147
3371	Black Brown	1810	712	1740	685	1676	659
3687	Mauve	330	130	318	125	306	120
3712	Salmon-MD	19	7	19	7	18	7
3722	Shell Pink-MD	649	255	624	245	601	236
3726	Antique Mauve-DK	928	365	892	351	859	338
3731	Dusty Rose-VY DK	581	228	559	219	538	211
3740	Antique Violet-DK	3719	1464	3576	1407	3443	1355
3770	Tawny-VY LT	42	16	40	15	39	15
3772	Desert Sand-VY DK	342	135	329	129	317	125
3774	Desert Sand-VY LT	685	269	659	259	635	249
3778	Terra Cotta-LT	239	94	230	90	221	87
3779	Terra Cotta-UL VY LT	23	9	22	8	21	8
3782	Mocha Brown-LT	290	114	279	109	269	105
3787	Brown Gray-DK	3120	1228	3000	1181	2889	1137
3790	Beige Gray-UL DK	21	8	20	8	19	7
3799	Pewter Gray-VY DK	1927	758	1853	729	1784	702
3802	Antique Mauve-VY DK	141	55	136	53	131	51
3803	Mauve-MD	46	18	44	17	43	17
3823	Yellow-UL Pale	3149	1240	3028	1192	2916	1148
3824	Apricot-LT	549	216	528	208	508	200
3825	Pumpkin-Pale	387	152	372	146	359	141
3827	Golden Brown-Pale	4	1	4	1	4	1
3832	Raspberry-MD	719	283	692	272	666	262
3834	Grape-DK	1630	642	1567	617	1509	594
3855	Autumn Gold-LT	580	228	557	219	537	211
3856	Mahogany-UL VY LT	256	101	246	97	237	93
3859	Rosewood-LT	474	186	456	179	439	173
3860	Cocoa	4312	1697	4146	1632	3993	1571
3861	Cocoa-LT	547	215	526	207	507	199
3863	Mocha Beige-MD	51	19	49	19	47	18
3864	Mocha Beige-LT	591	233	568	224	547	215
3865	Winter White	742	292	713	280	687	270

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	775	305	723	284	678	267
310	Black	66	26	62	24	58	23
315	Antique Mauve-VY DK	505	199	471	185	442	174
353	Peach	827	325	772	304	724	285
356	Terra Cotta-MD	8	3	7	2	7	2
371	Mustard	347	136	323	127	303	119
372	Mustard-LT	501	197	468	184	439	173
402	Mahogany-VY LT	44	17	41	16	38	15
407	Desert Sand-DK	472	185	440	173	413	162
422	Hazelnut Brown-LT	162	64	151	59	142	56

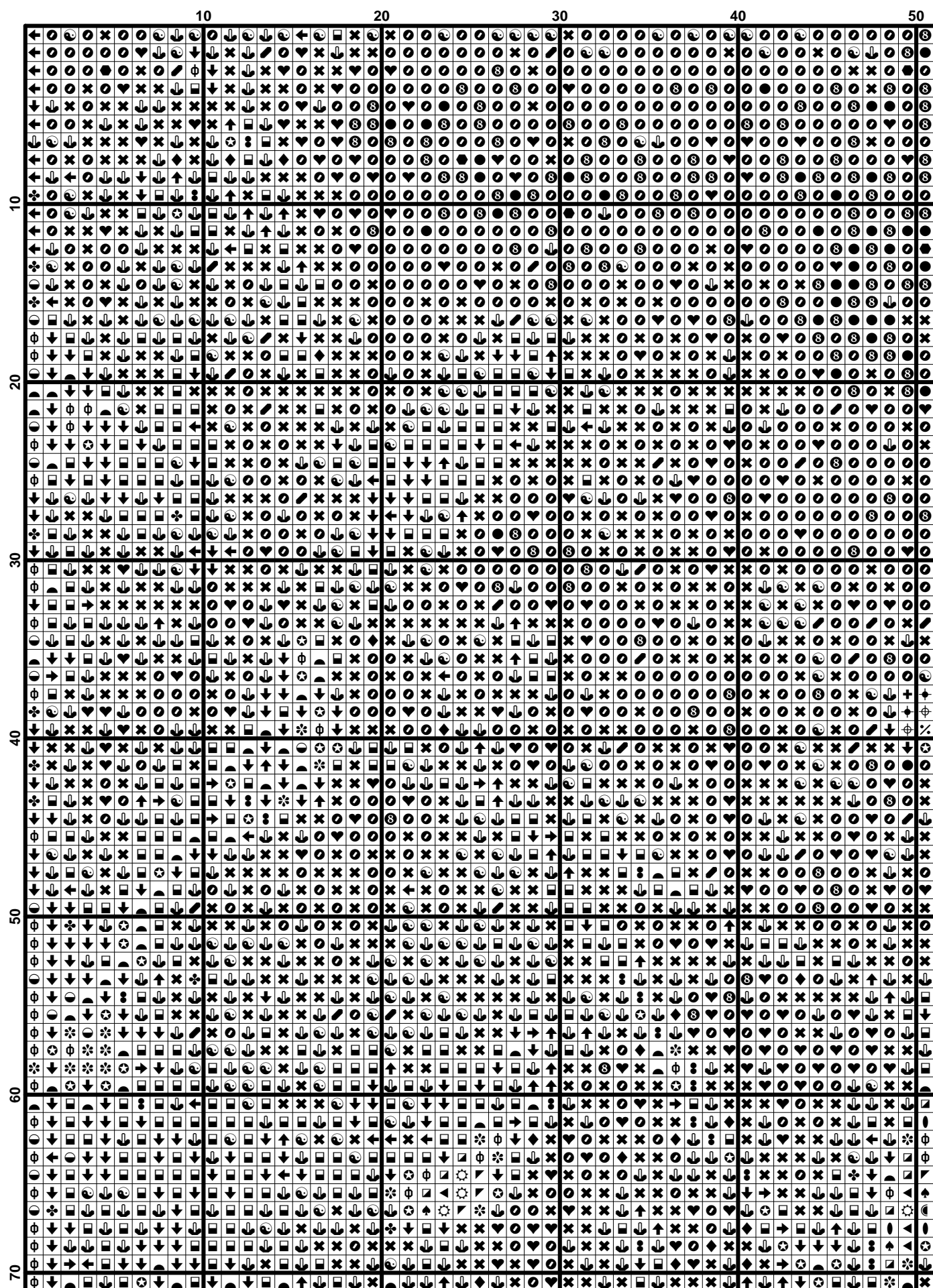
436	Tan	13	5	12	4	11	4
437	Tan-LT	586	230	547	215	512	201
451	Shell Gray-DK	1021	402	953	375	893	352
452	Shell Gray-MD	48	19	44	17	42	16
535	Ash Gray-VY LT	699	275	652	256	611	240
543	Beige Brown-UL VY LT	7	3	7	2	6	2
612	Drab Brown-LT	375	147	350	137	328	129
632	Desert Sand-UL VY DK	55	21	51	20	48	19
640	Beige Gray-VY DK	655	258	611	241	573	226
642	Beige Gray-DK	25	10	23	9	22	8
645	Beaver Gray-VY DK	1162	457	1084	427	1016	400
646	Beaver Gray-DK	37	14	35	13	33	12
738	Tan-VY LT	1239	488	1157	455	1085	427
739	Tan-UL VY LT	359	141	335	132	314	124
745	Yellow-LT Pale	1076	424	1004	395	942	371
746	Off White	4920	1937	4592	1808	4305	1695
754	Peach-LT	235	93	220	86	206	81
758	Terra Cotta-VY LT	147	57	137	53	128	50
838	Beige Brown-VY DK	1371	539	1279	503	1199	472
839	Beige Brown-DK	2017	794	1882	741	1765	695
840	Beige Brown-MD	72	28	67	26	63	25
841	Beige Brown-LT	384	151	359	141	336	132
842	Beige Brown-VY LT	264	104	246	97	231	91
844	Beaver Brown-UL DK	977	384	911	359	854	336
892	Carnation-MD	1	1	1	1	1	1
902	Garnet-VY DK	30	12	28	11	26	10
938	Coffee Brown-UL DK	874	344	816	321	765	301
945	Tawny	1682	662	1570	618	1472	579
948	Peach-VY LT	25	10	23	9	22	8
950	Desert Sand-LT	207	81	193	76	181	71
951	Tawny-LT	767	302	716	281	671	264
3021	Brown Gray-VY DK	2016	793	1882	740	1764	694
3022	Brown Gray-MD	13	5	12	4	11	4
3023	Brown Gray-LT	73	28	68	26	64	25
3031	Mocha Brown-VY DK	613	241	572	225	536	211
3032	Mocha Brown-MD	768	302	716	282	672	264
3041	Antique Violet-MD	361	141	337	132	316	124
3045	Yellow Beige-DK	8	3	7	2	7	2
3052	Green Gray-MD	14	5	13	5	12	5
3064	Desert Sand	1410	555	1316	518	1234	485
3328	Salmon-DK	2	1	2	1	2	1
3340	Apricot-MD	13	5	12	4	11	4
3341	Apricot	31	12	29	11	27	10
3350	Dusty Rose-UL DK	360	141	336	132	315	124
3371	Black Brown	1616	636	1508	593	1414	556
3687	Mauve	295	116	275	108	258	101
3712	Salmon-MD	17	6	16	6	15	6
3722	Shell Pink-MD	579	228	541	212	507	199
3726	Antique Mauve-DK	829	326	773	304	725	285
3731	Dusty Rose-VY DK	519	204	484	190	454	178
3740	Antique Violet-DK	3320	1307	3099	1220	2905	1144
3770	Tawny-VY LT	37	14	35	13	33	12
3772	Desert Sand-VY DK	305	120	285	112	267	105
3774	Desert Sand-VY LT	612	240	571	224	536	210
3778	Terra Cotta-LT	213	84	199	78	187	73
3779	Terra Cotta-UL VY LT	21	8	19	7	18	7
3782	Mocha Brown-LT	259	102	242	95	227	89
3787	Brown Gray-DK	2786	1097	2600	1024	2438	960
3790	Beige Gray-UL DK	19	7	17	7	16	6

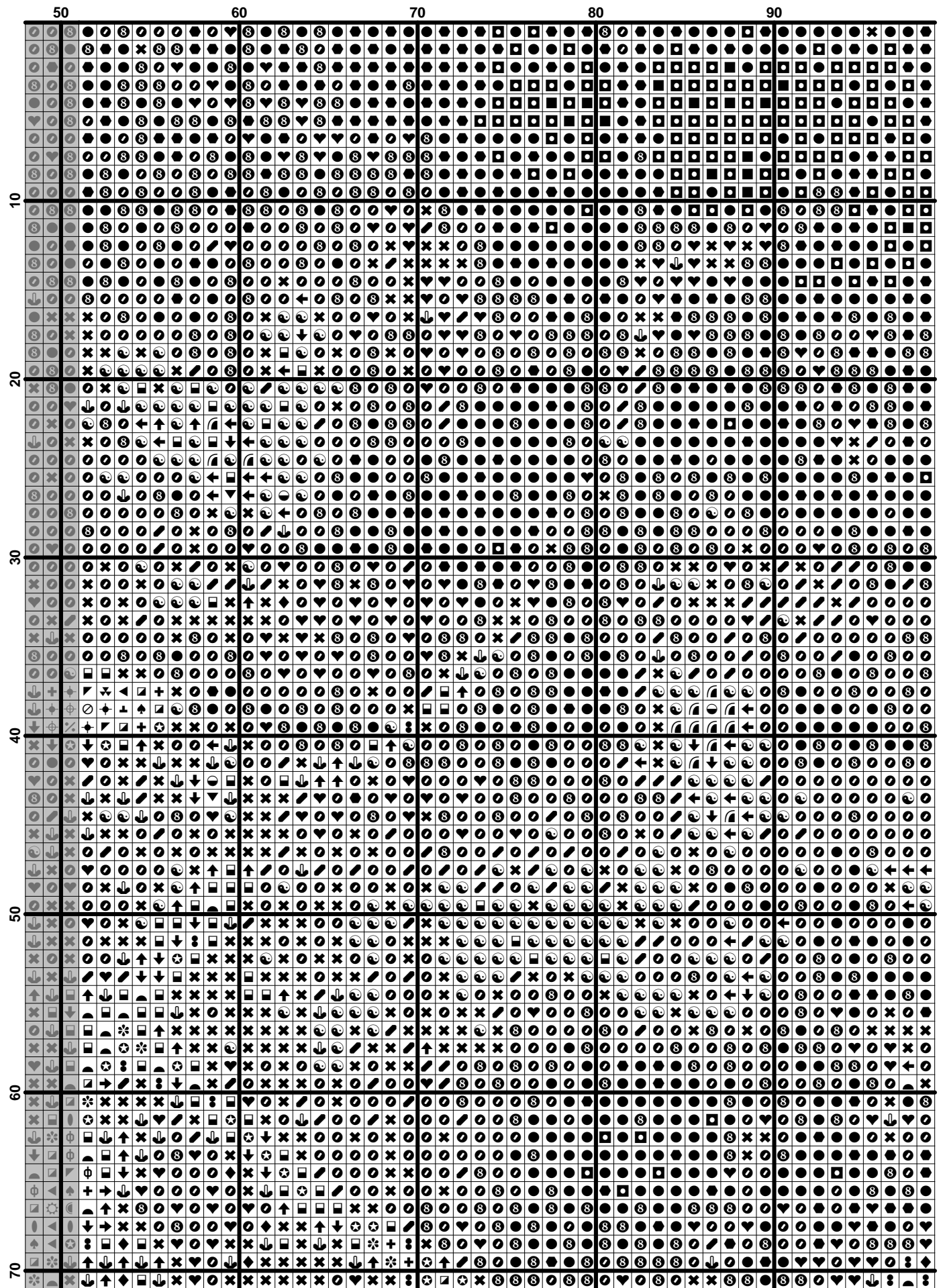
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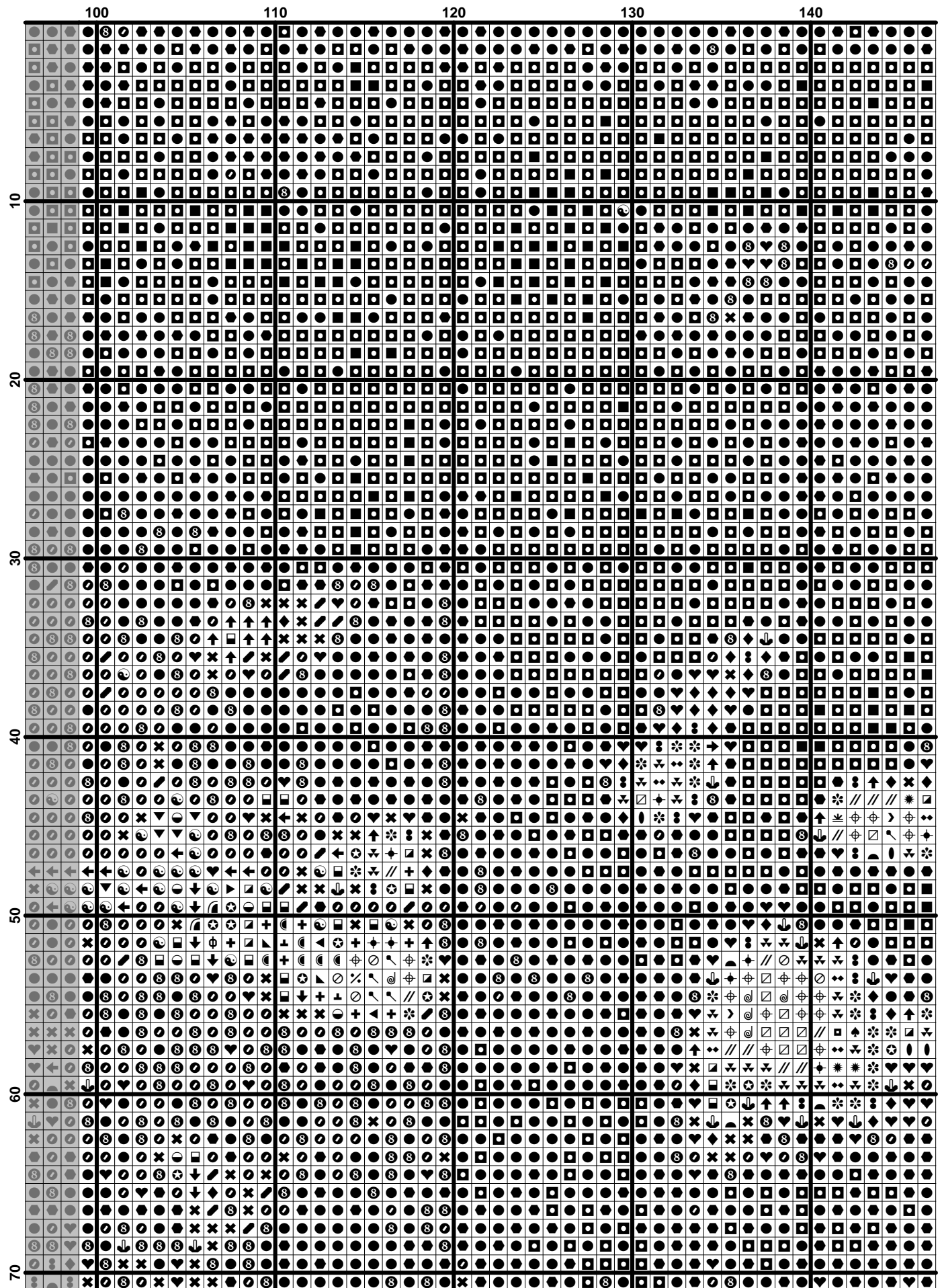
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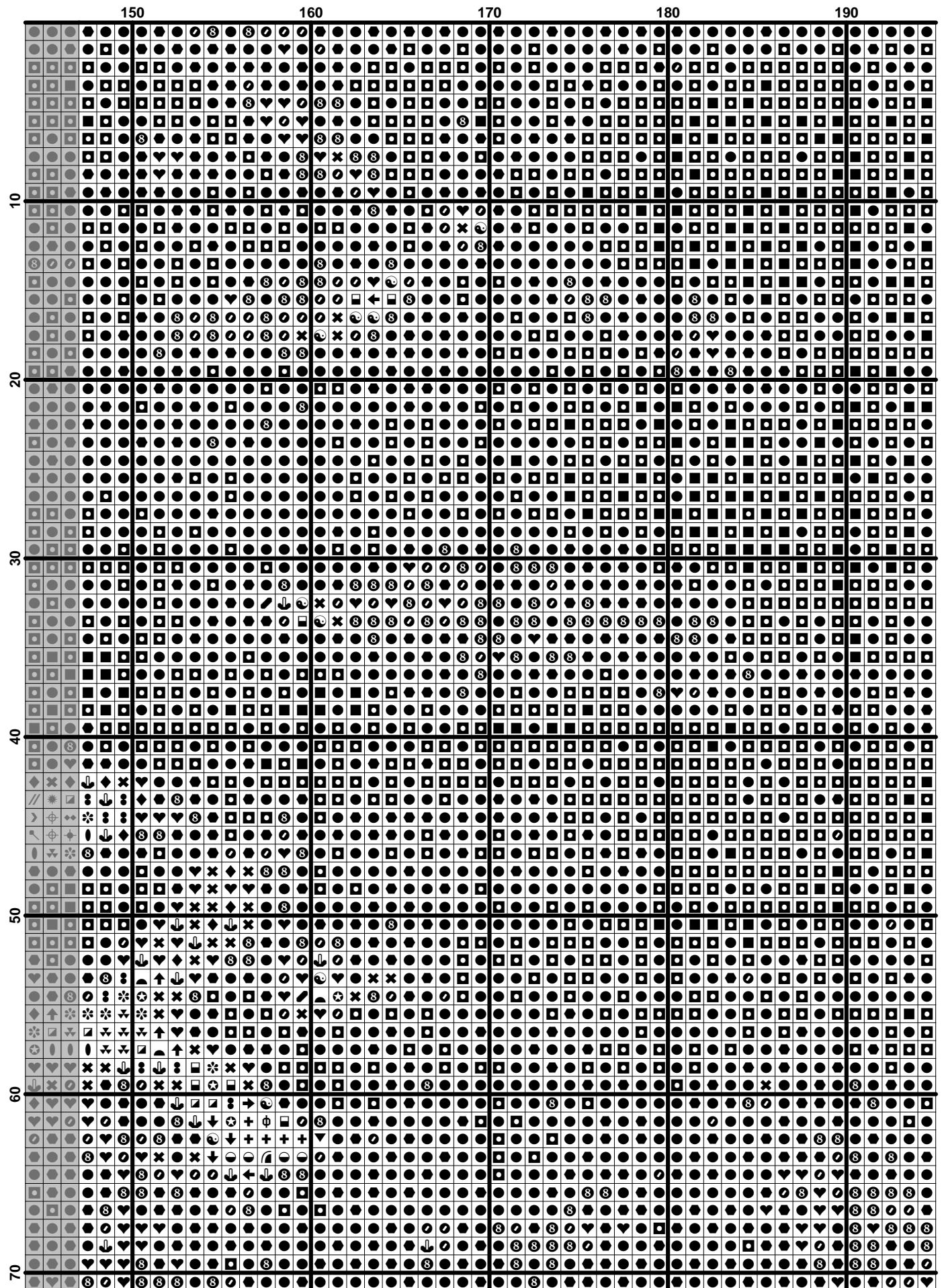
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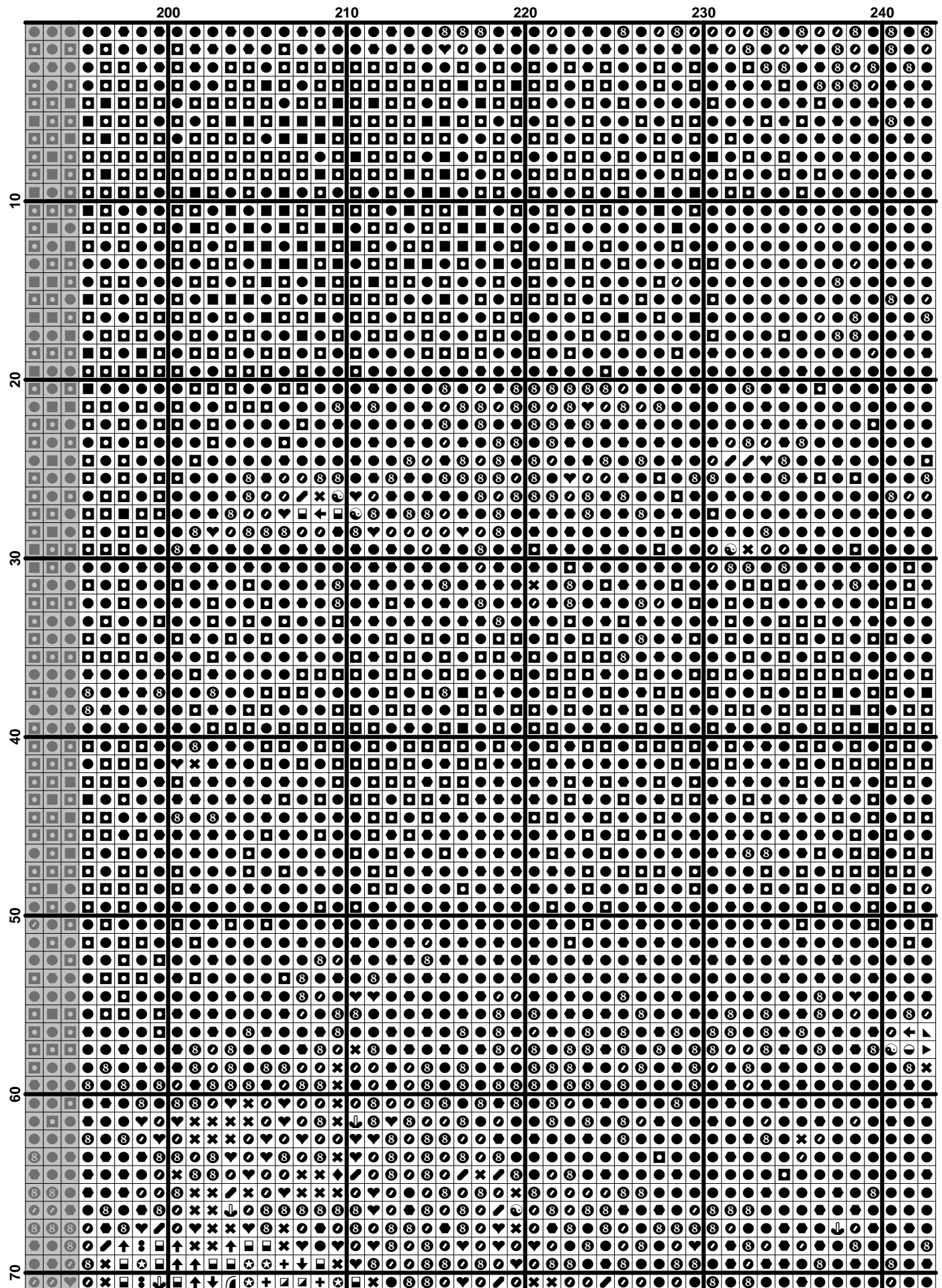
3799	Pewter Gray-VY DK	1720	677	1606	632	1505	592
3802	Antique Mauve-VY DK	126	50	118	46	110	43
3803	Mauve-MD	41	16	38	15	36	14
3823	Yellow-UL Pale	2812	1107	2624	1033	2460	969
3824	Apricot-LT	490	193	457	180	429	169
3825	Pumpkin-Pale	346	136	323	127	303	119
3827	Golden Brown-Pale	4	1	4	1	3	1
3832	Raspberry-MD	642	253	599	236	562	221
3834	Grape-DK	1455	573	1358	535	1274	501
3855	Autumn Gold-LT	518	203	483	190	453	178
3856	Mahogany-UL VY LT	229	90	214	84	200	79
3859	Rosewood-LT	423	167	395	155	370	146
3860	Cocoa	3850	1515	3593	1414	3369	1326
3861	Cocoa-LT	489	192	456	179	428	168
3863	Mocha Beige-MD	46	17	43	16	40	15
3864	Mocha Beige-LT	528	208	493	194	462	182
3865	Winter White	662	260	618	243	579	228

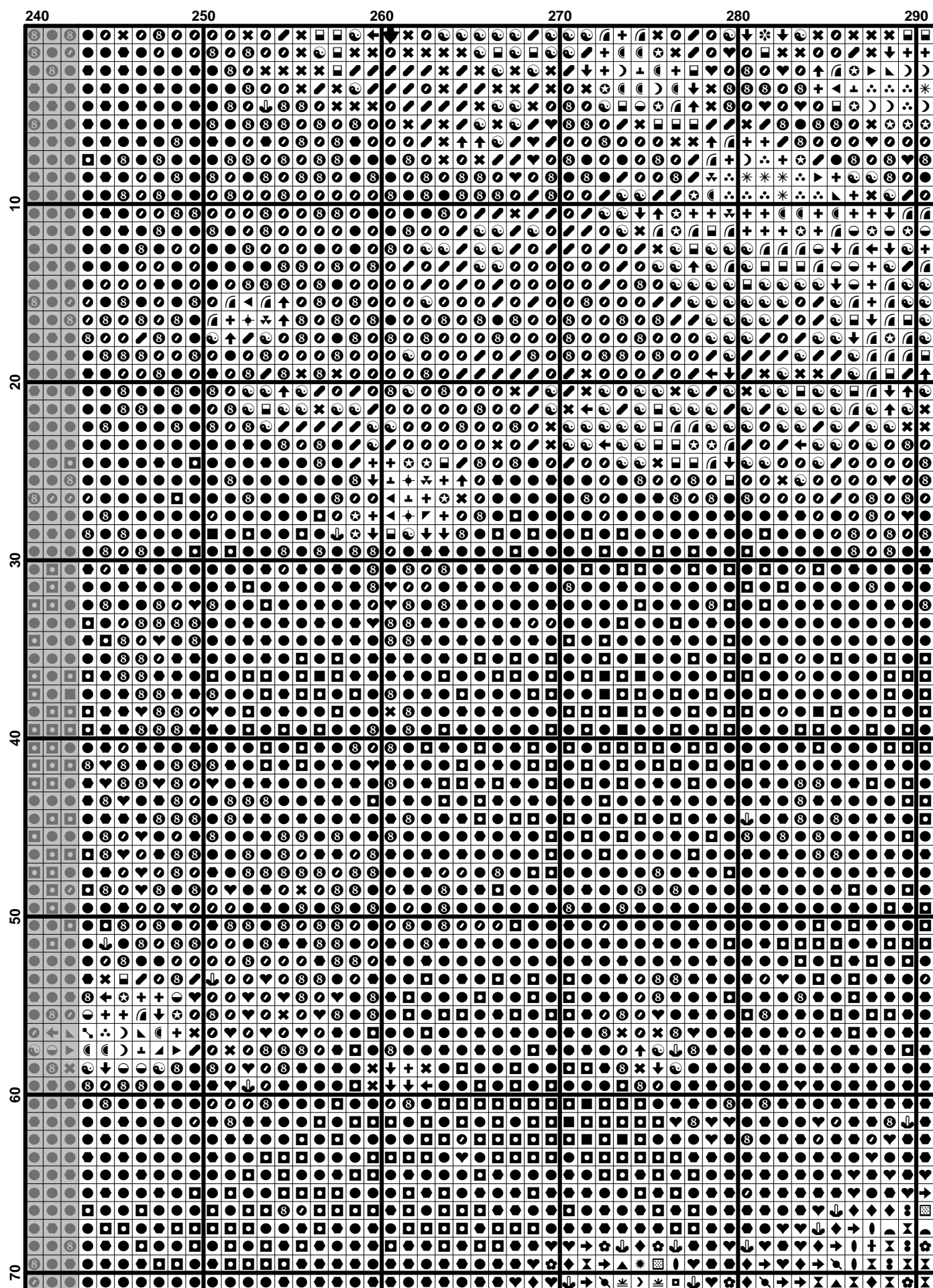


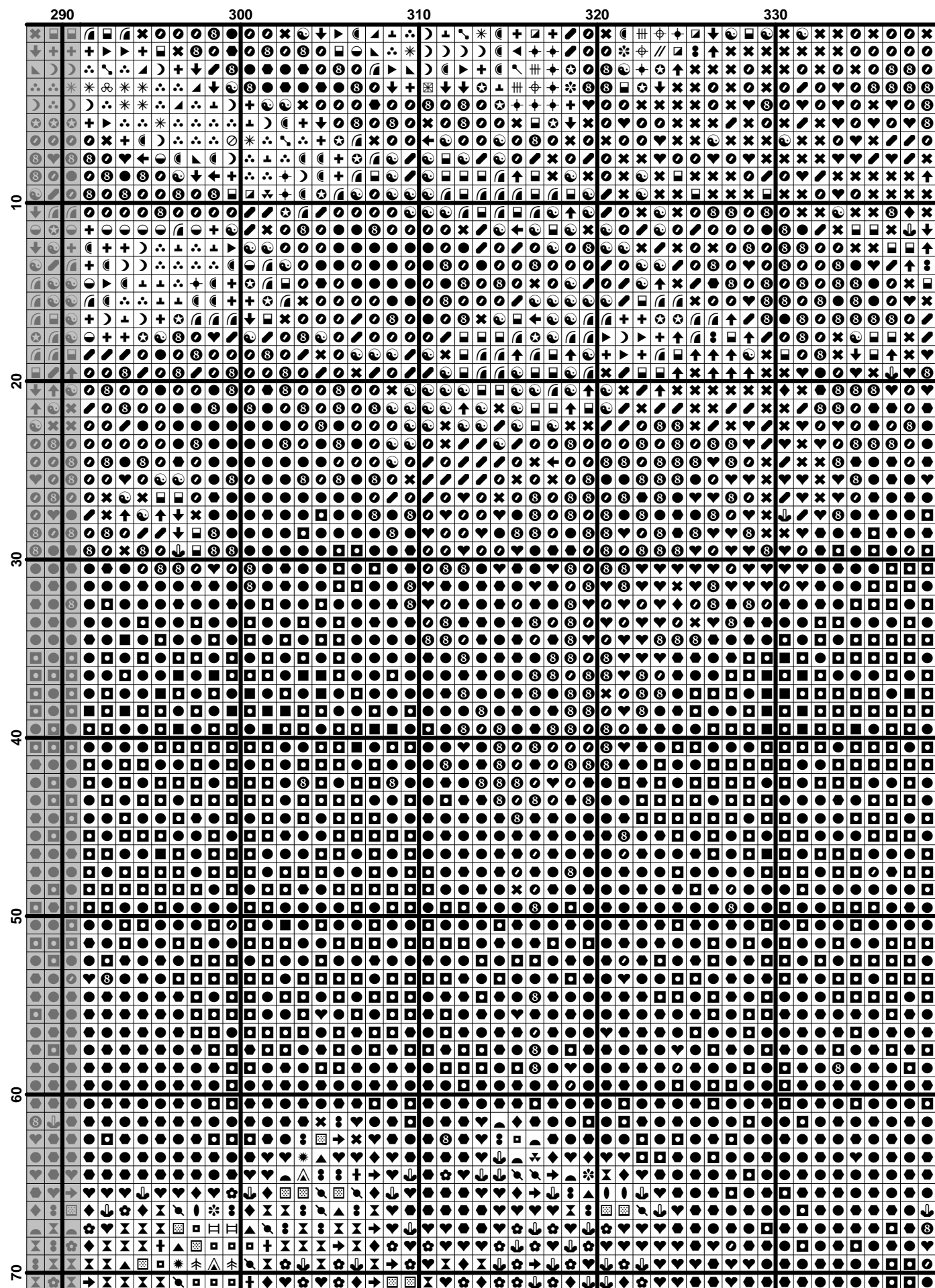


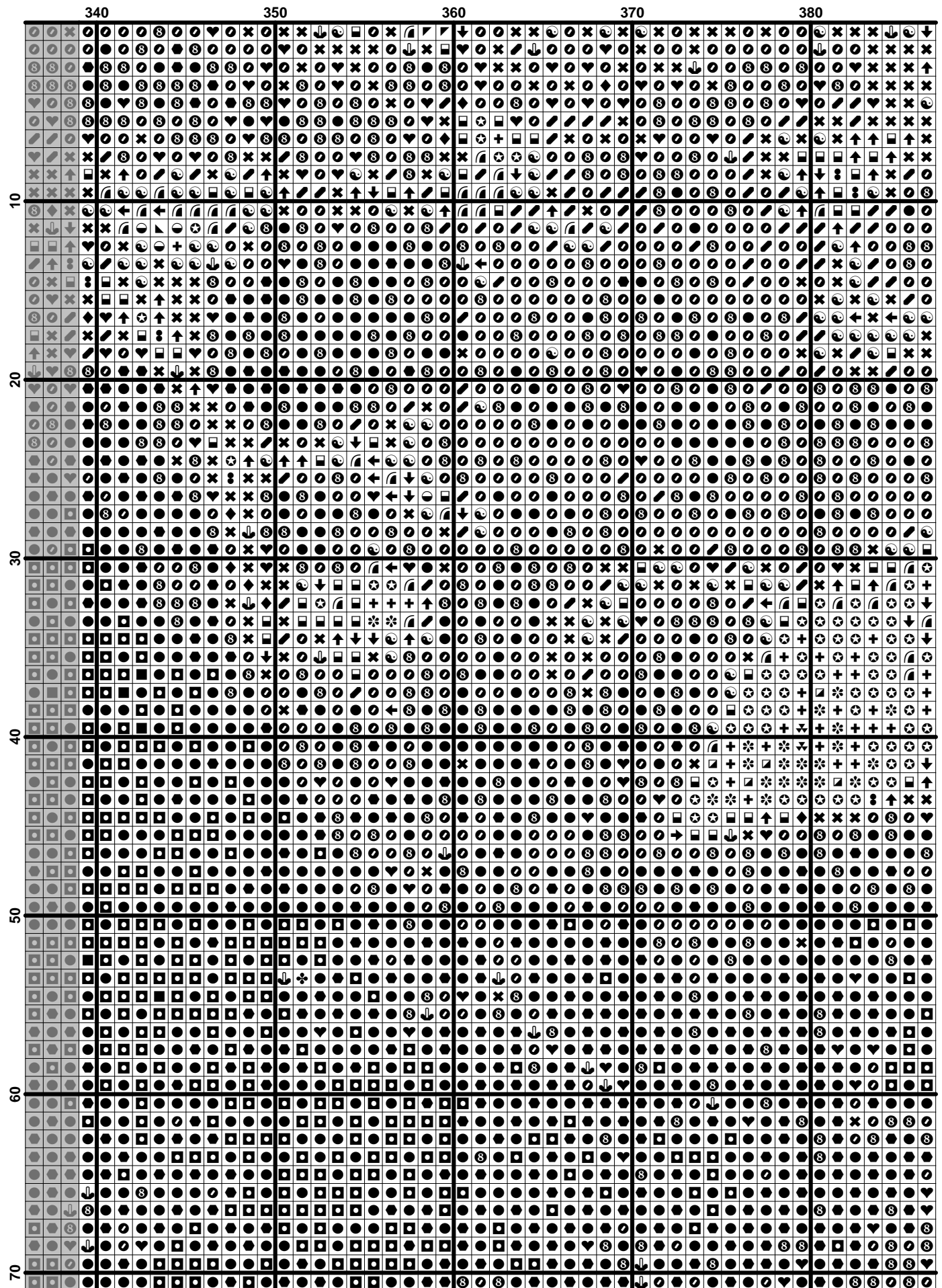


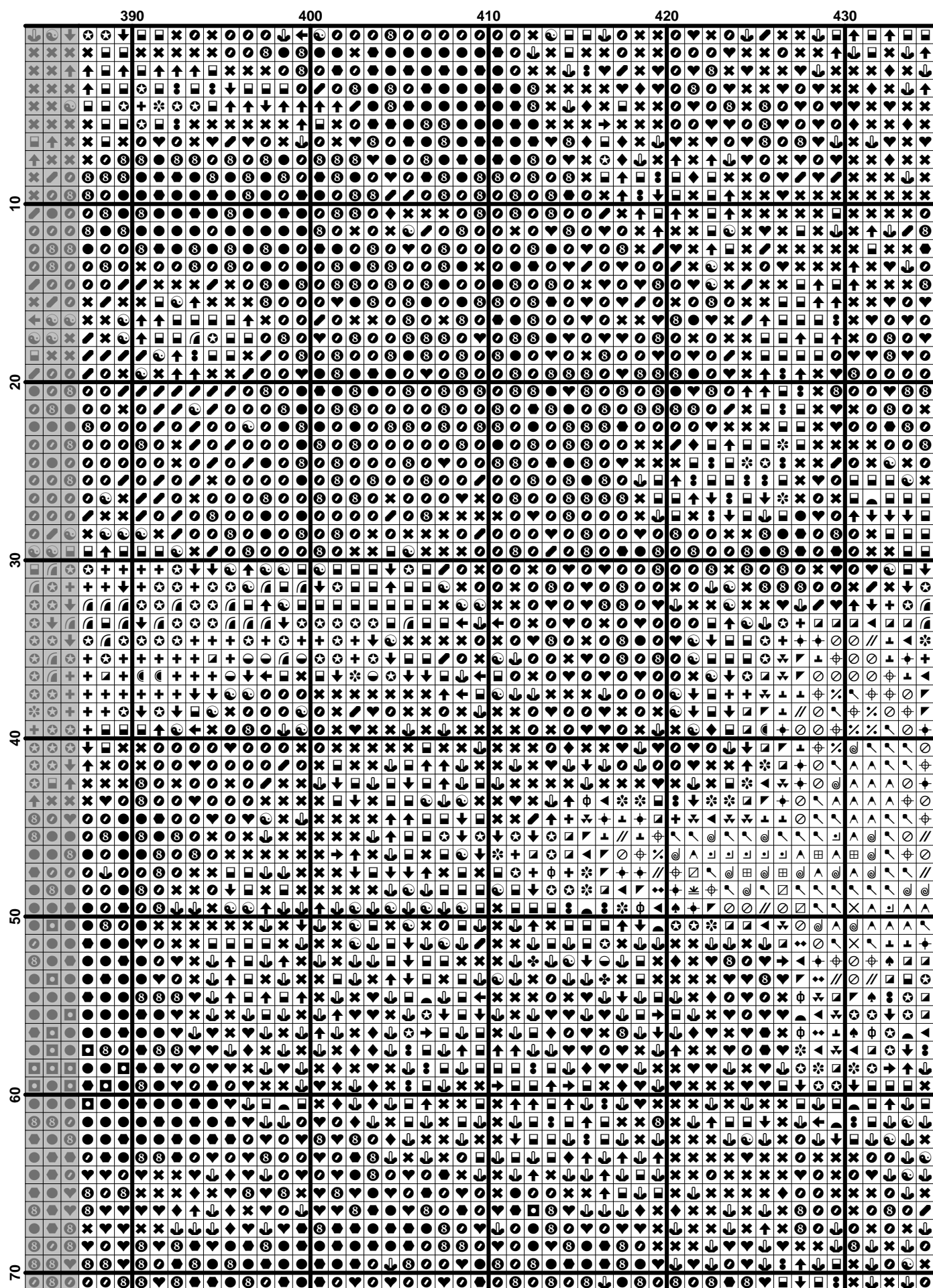


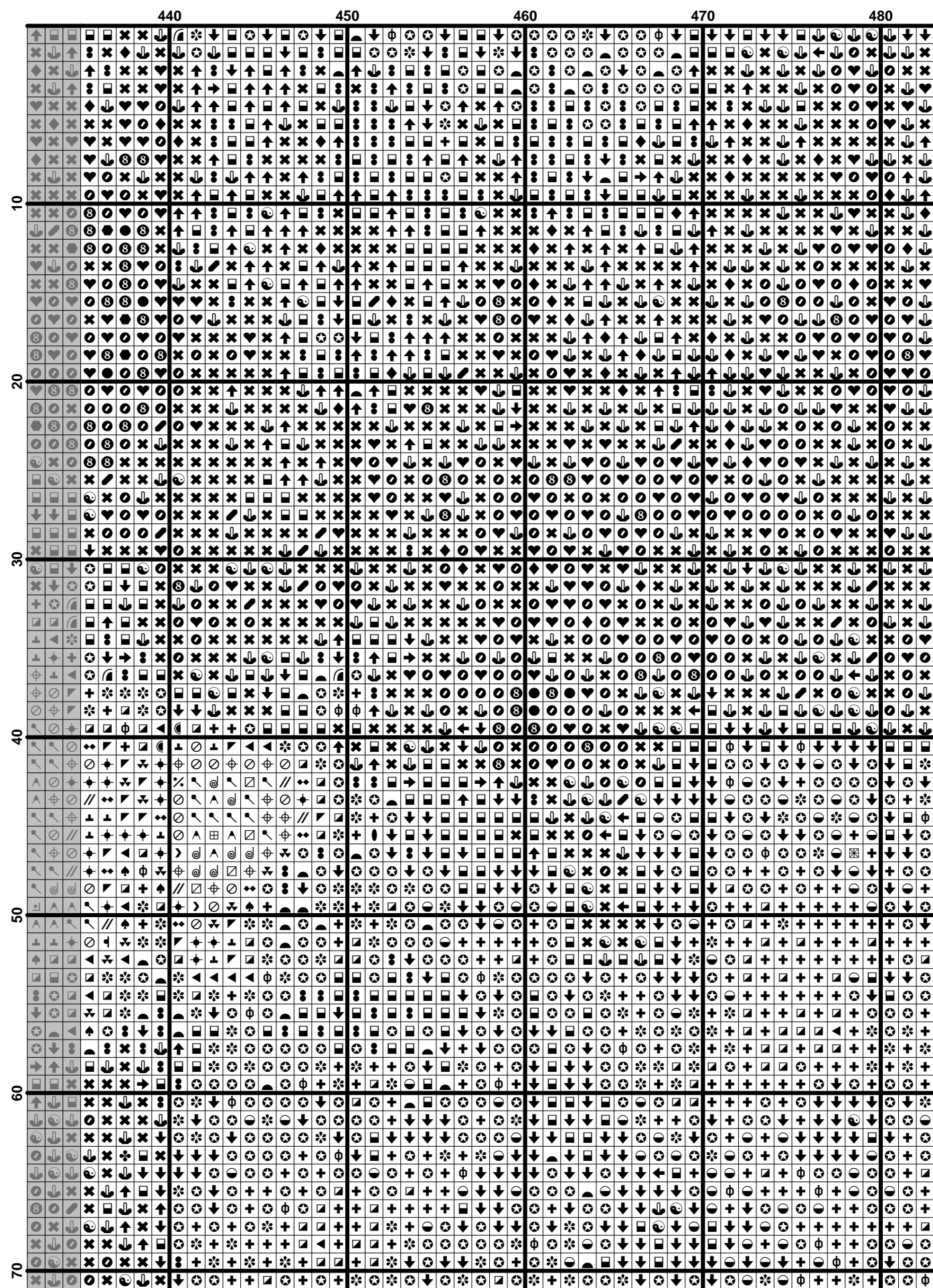


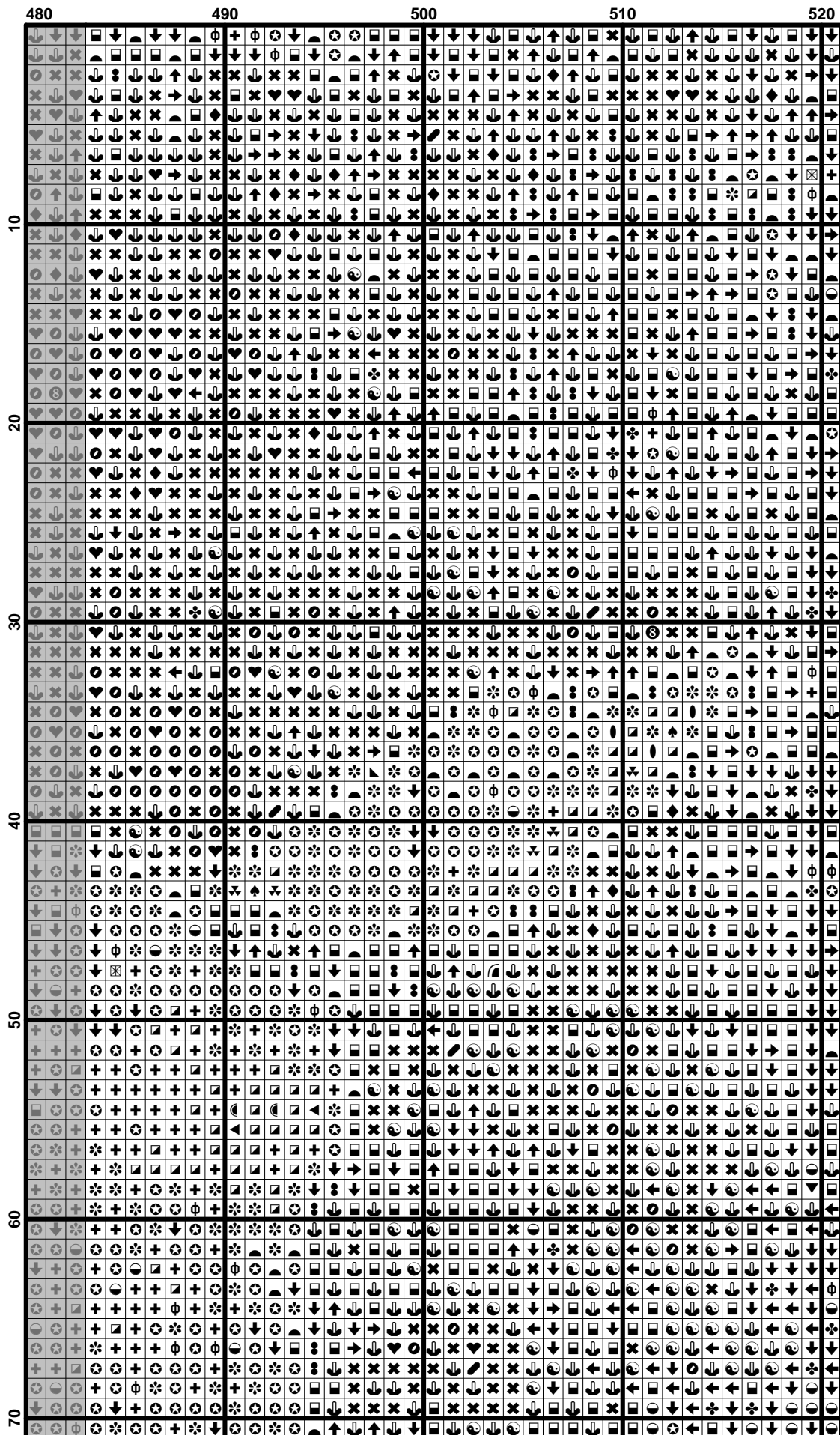


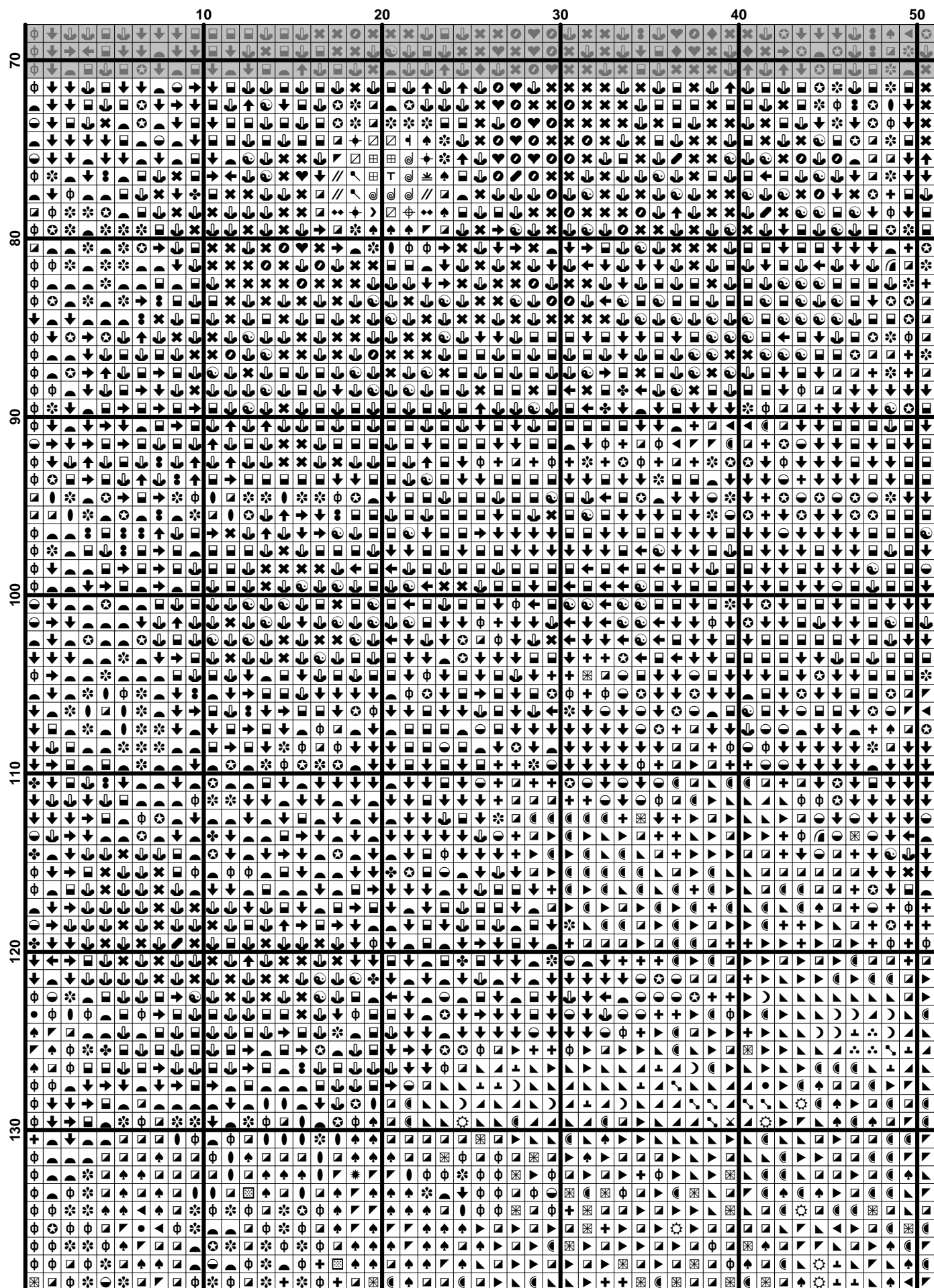


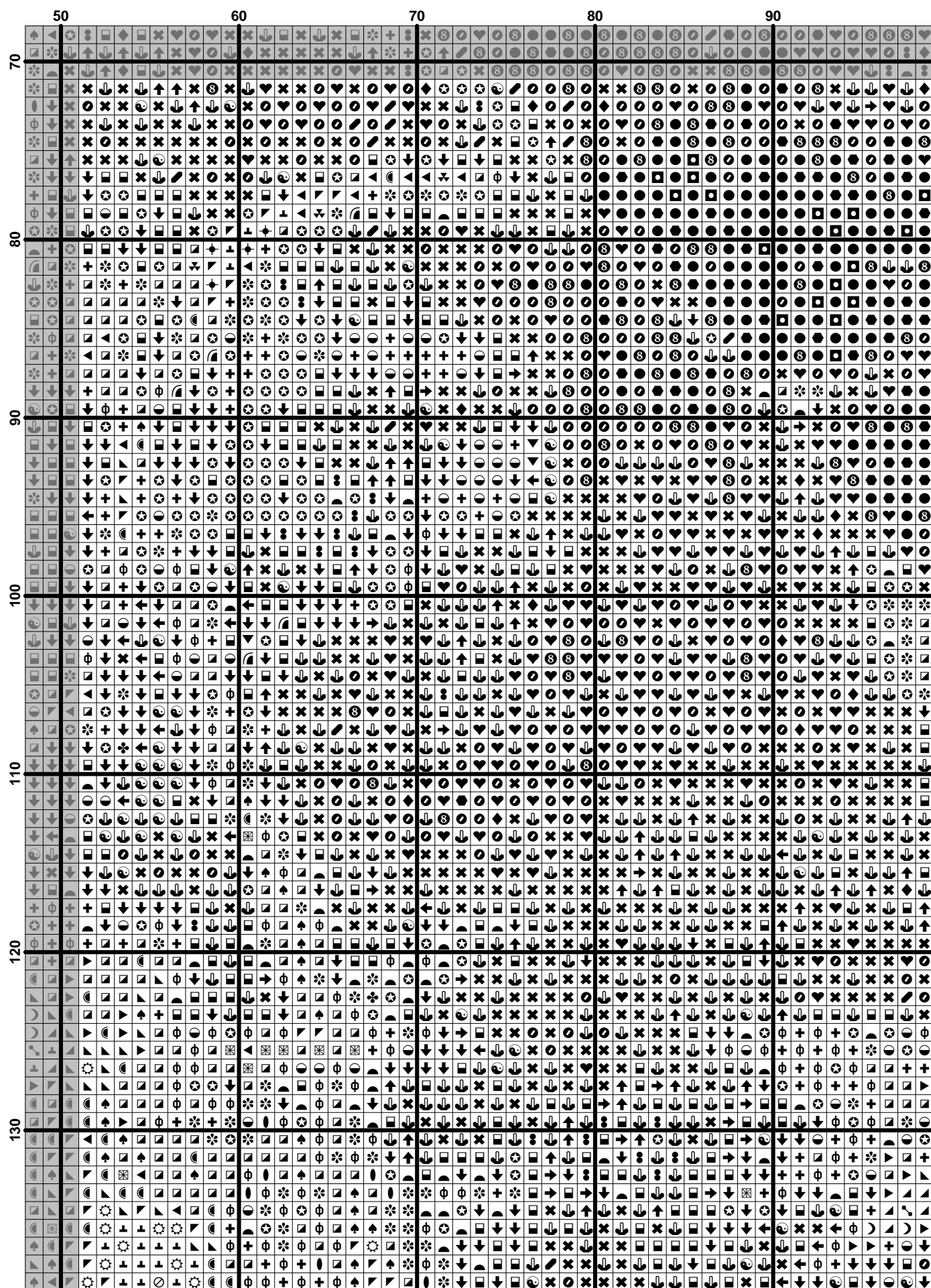


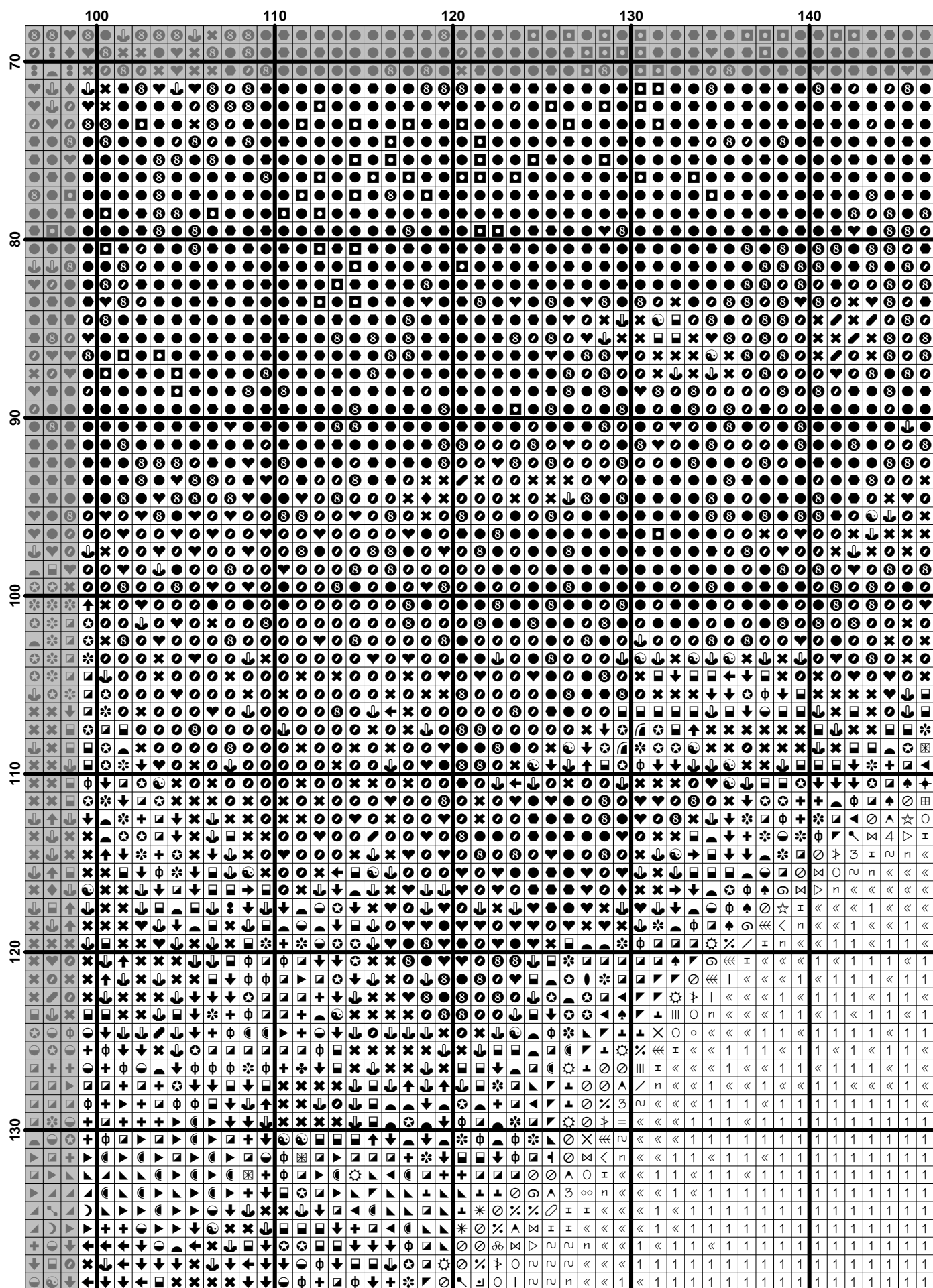










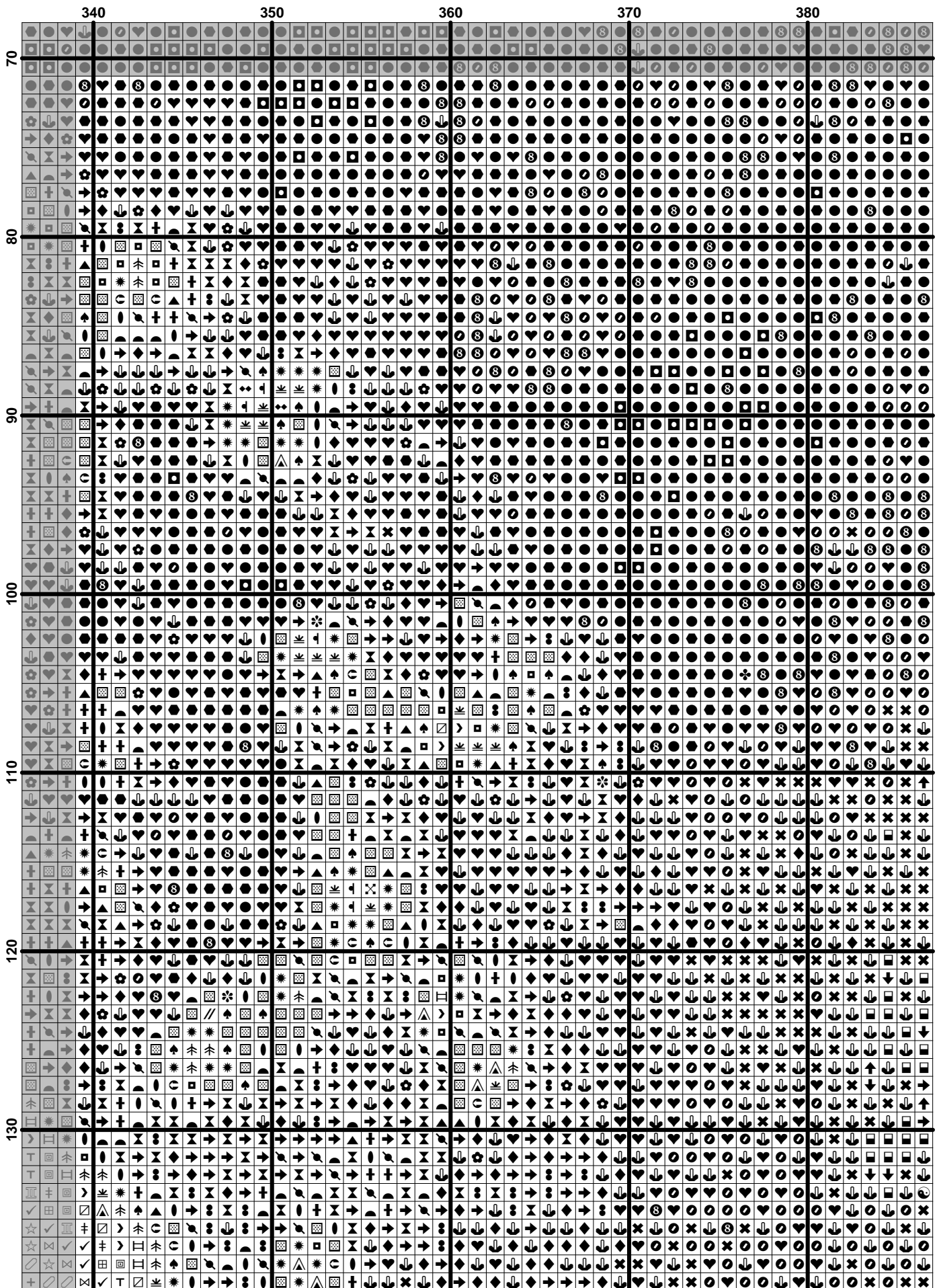


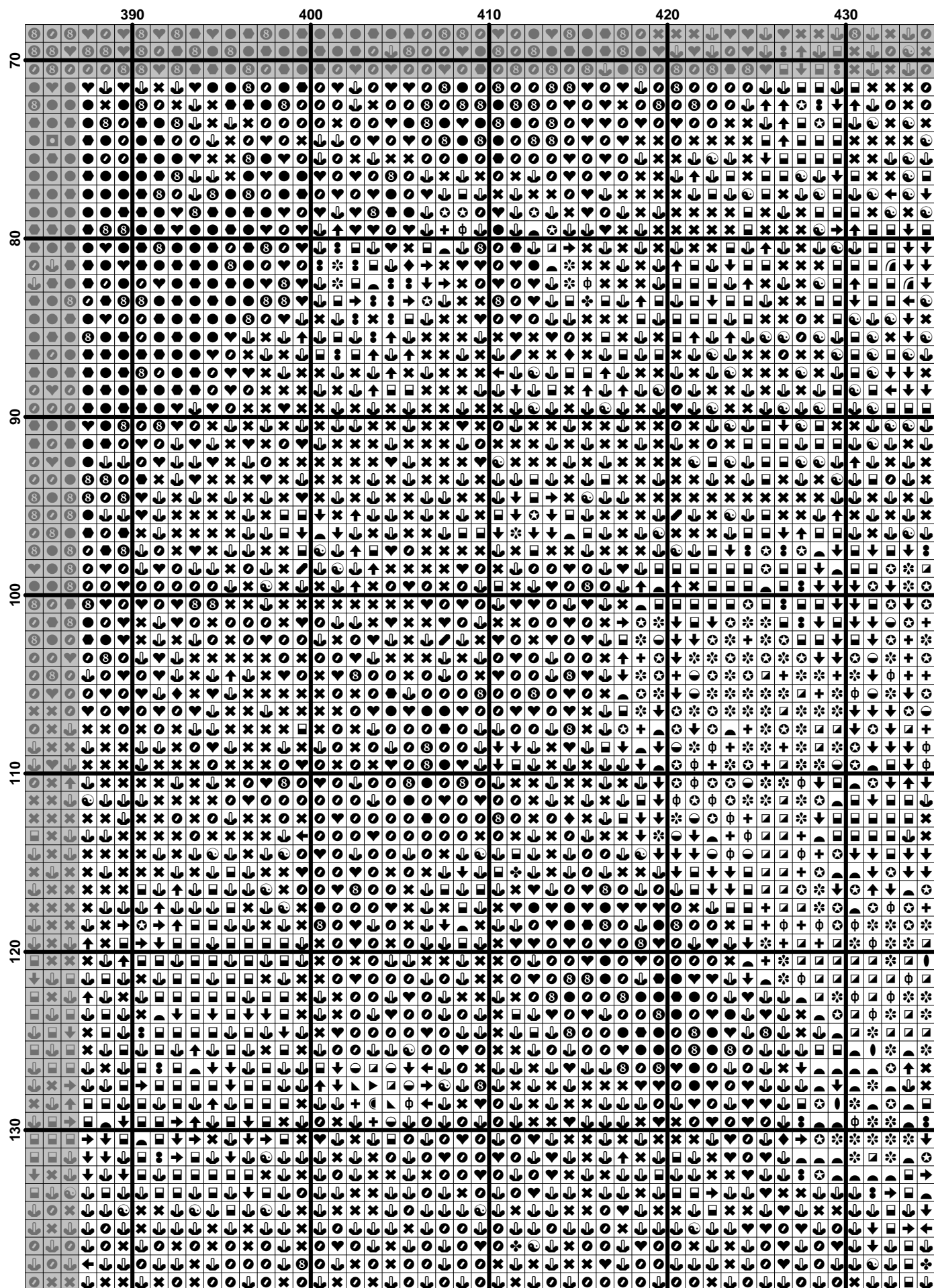
$$(26) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (27)$$

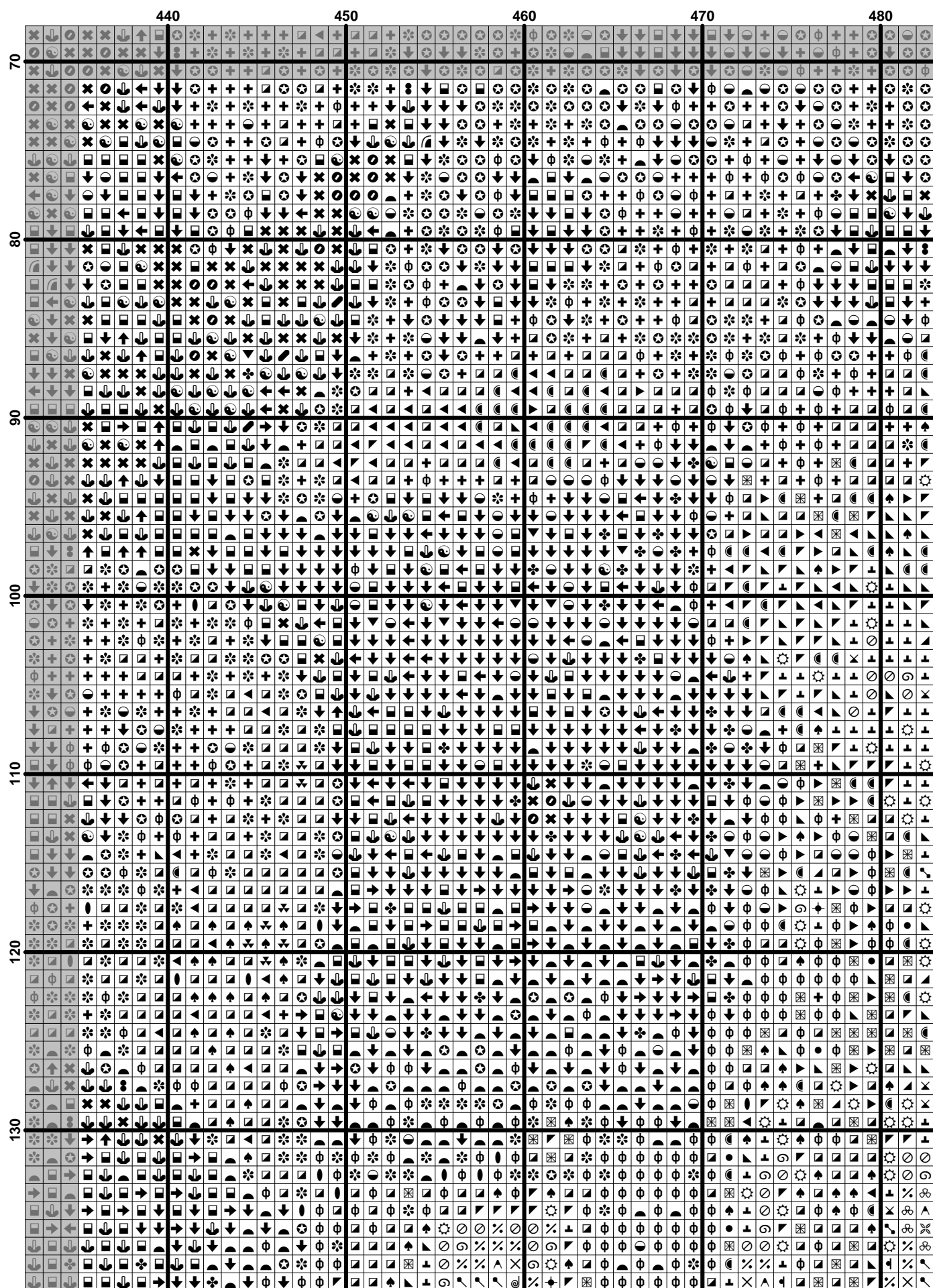
$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

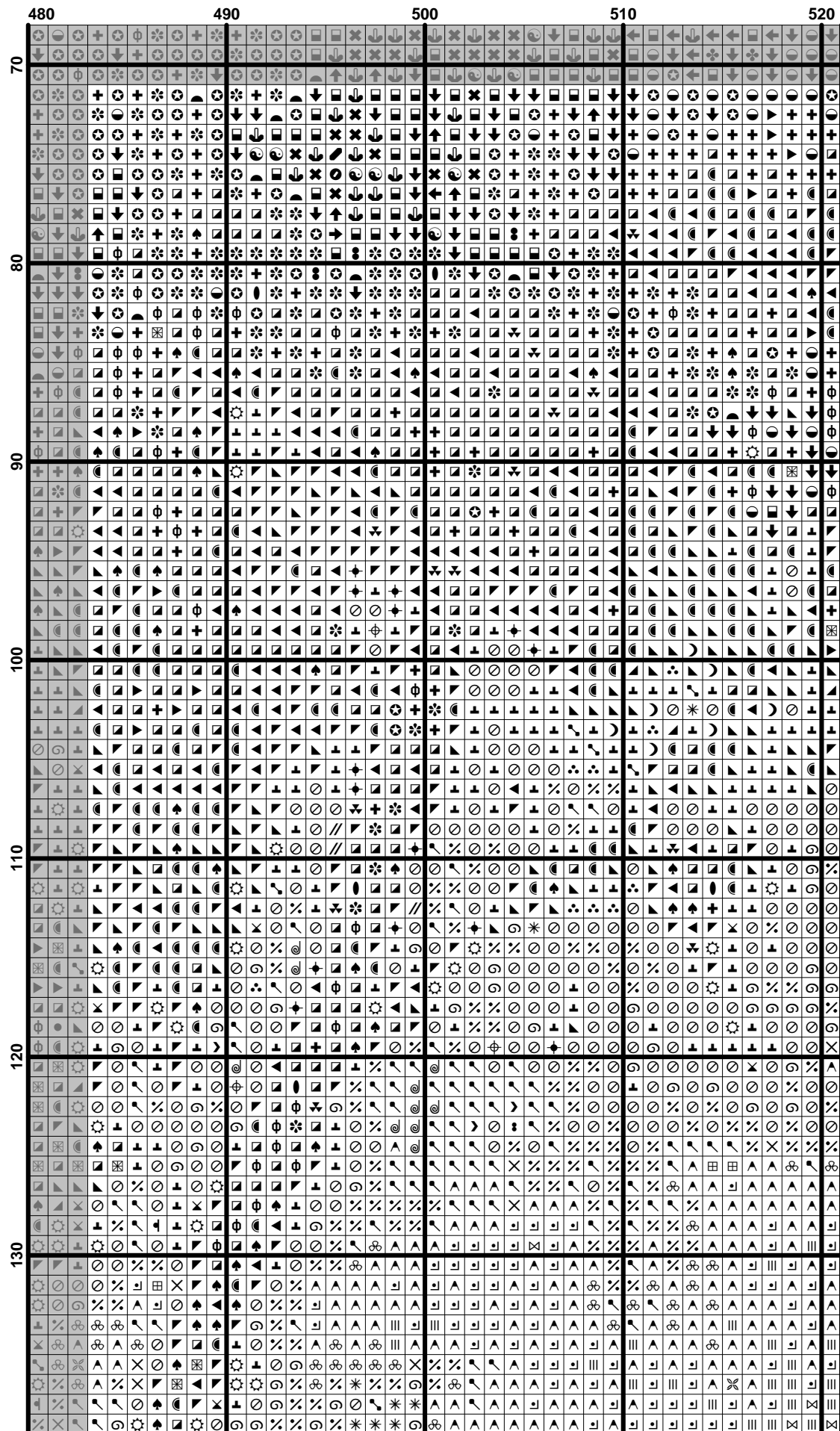
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90	8	8	8	8	8	8
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110	8	8	8	8	8	8
120	8	8	8	8	8	8
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140	8	8	8	8	8	8
150	8	8	8	8	8	8
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170	8	8	8	8	8	8
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590	8	8	8	8	8	8
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610	8	8	8	8	8	8
620	8	8	8	8	8	8
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670	8	8	8	8	8	8
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690	8	8	8	8	8	8
700	8	8	8	8	8	8
710	8	8	8	8	8	8
720	8	8	8	8	8	8
730	8	8	8	8	8	8
740	8	8	8	8	8	8
750	8	8	8	8	8	8
760	8	8	8	8	8	8
770	8	8	8	8	8	8
780	8	8	8	8	8	8
790	8	8	8	8	8	8
800	8	8	8	8	8	8
810	8	8	8	8	8	8
820	8	8	8	8	8	8
830	8	8	8	8	8	8
840	8	8	8	8	8	8
850	8	8	8	8	8	8
860	8	8	8	8	8	8
870	8	8	8	8	8	8
880	8	8	8	8	8	8
890	8	8	8	8	8	8
900	8	8	8	8	8	8
910	8	8	8	8	8	8
920	8	8	8	8	8	8
930	8	8	8	8	8	8
940	8	8	8	8	8	8
950	8	8	8	8	8	8
960	8	8	8	8	8	8
970	8	8	8	8	8	8
980	8	8	8	8	8	8
990	8	8	8	8	8	8
1000	8	8	8	8	8	8

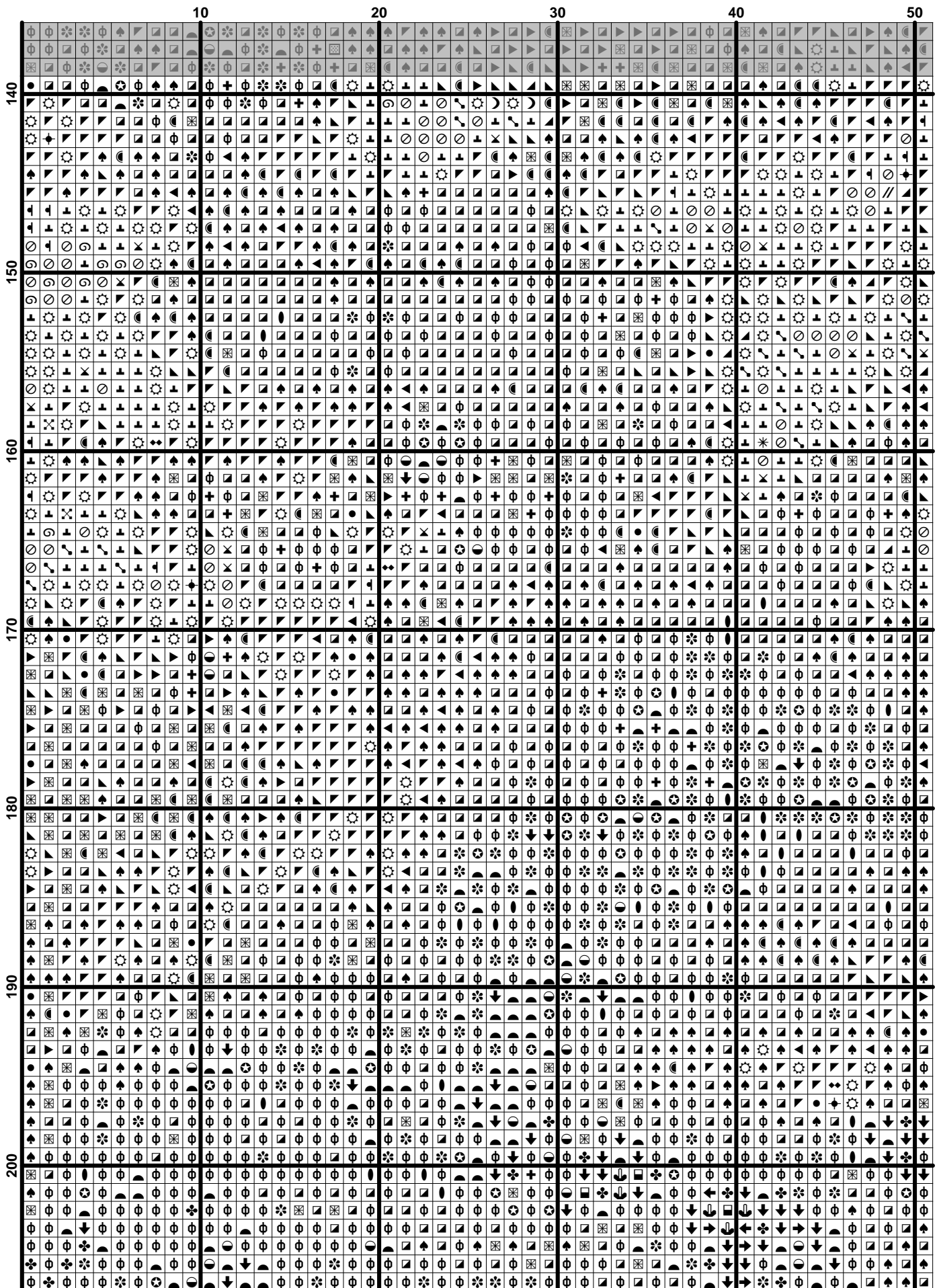
(30)

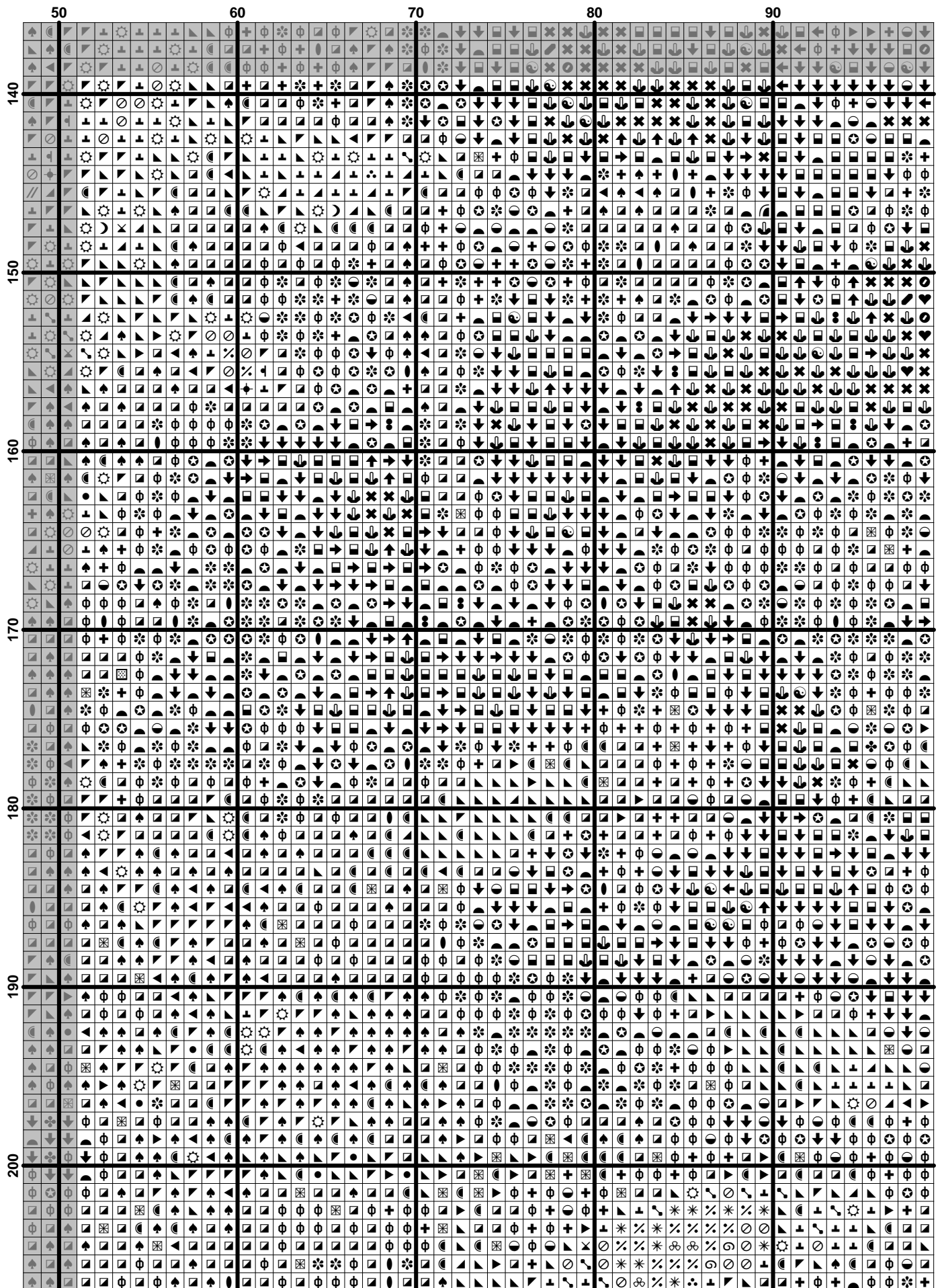












	100	110	120	130	140
140	+	+	+	+	+
150	+	+	+	+	+
160	+	+	+	+	+
170	+	+	+	+	+
180	+	+	+	+	+
190	+	+	+	+	+
200	+	+	+	+	+
210	+	+	+	+	+
220	+	+	+	+	+
230	+	+	+	+	+
240	+	+	+	+	+
250	+	+	+	+	+
260	+	+	+	+	+
270	+	+	+	+	+
280	+	+	+	+	+
290	+	+	+	+	+
300	+	+	+	+	+
310	+	+	+	+	+
320	+	+	+	+	+
330	+	+	+	+	+
340	+	+	+	+	+
350	+	+	+	+	+
360	+	+	+	+	+
370	+	+	+	+	+
380	+	+	+	+	+
390	+	+	+	+	+
400	+	+	+	+	+
410	+	+	+	+	+
420	+	+	+	+	+
430	+	+	+	+	+
440	+	+	+	+	+
450	+	+	+	+	+
460	+	+	+	+	+
470	+	+	+	+	+
480	+	+	+	+	+
490	+	+	+	+	+
500	+	+	+	+	+
510	+	+	+	+	+
520	+	+	+	+	+
530	+	+	+	+	+
540	+	+	+	+	+
550	+	+	+	+	+
560	+	+	+	+	+
570	+	+	+	+	+
580	+	+	+	+	+
590	+	+	+	+	+
600	+	+	+	+	+
610	+	+	+	+	+
620	+	+	+	+	+
630	+	+	+	+	+
640	+	+	+	+	+
650	+	+	+	+	+
660	+	+	+	+	+
670	+	+	+	+	+
680	+	+	+	+	+
690	+	+	+	+	+
700	+	+	+	+	+
710	+	+	+	+	+
720	+	+	+	+	+
730	+	+	+	+	+
740	+	+	+	+	+
750	+	+	+	+	+
760	+	+	+	+	+
770	+	+	+	+	+
780	+	+	+	+	+
790	+	+	+	+	+
800	+	+	+	+	+
810	+	+	+	+	+
820	+	+	+	+	+
830	+	+	+	+	+
840	+	+	+	+	+
850	+	+	+	+	+
860	+	+	+	+	+
870	+	+	+	+	+
880	+	+	+	+	+
890	+	+	+	+	+
900	+	+	+	+	+
910	+	+	+	+	+
920	+	+	+	+	+
930	+	+	+	+	+
940	+	+	+	+	+
950	+	+	+	+	+
960	+	+	+	+	+
970	+	+	+	+	+
980	+	+	+	+	+
990	+	+	+	+	+
1000	+	+	+	+	+

[illegible]

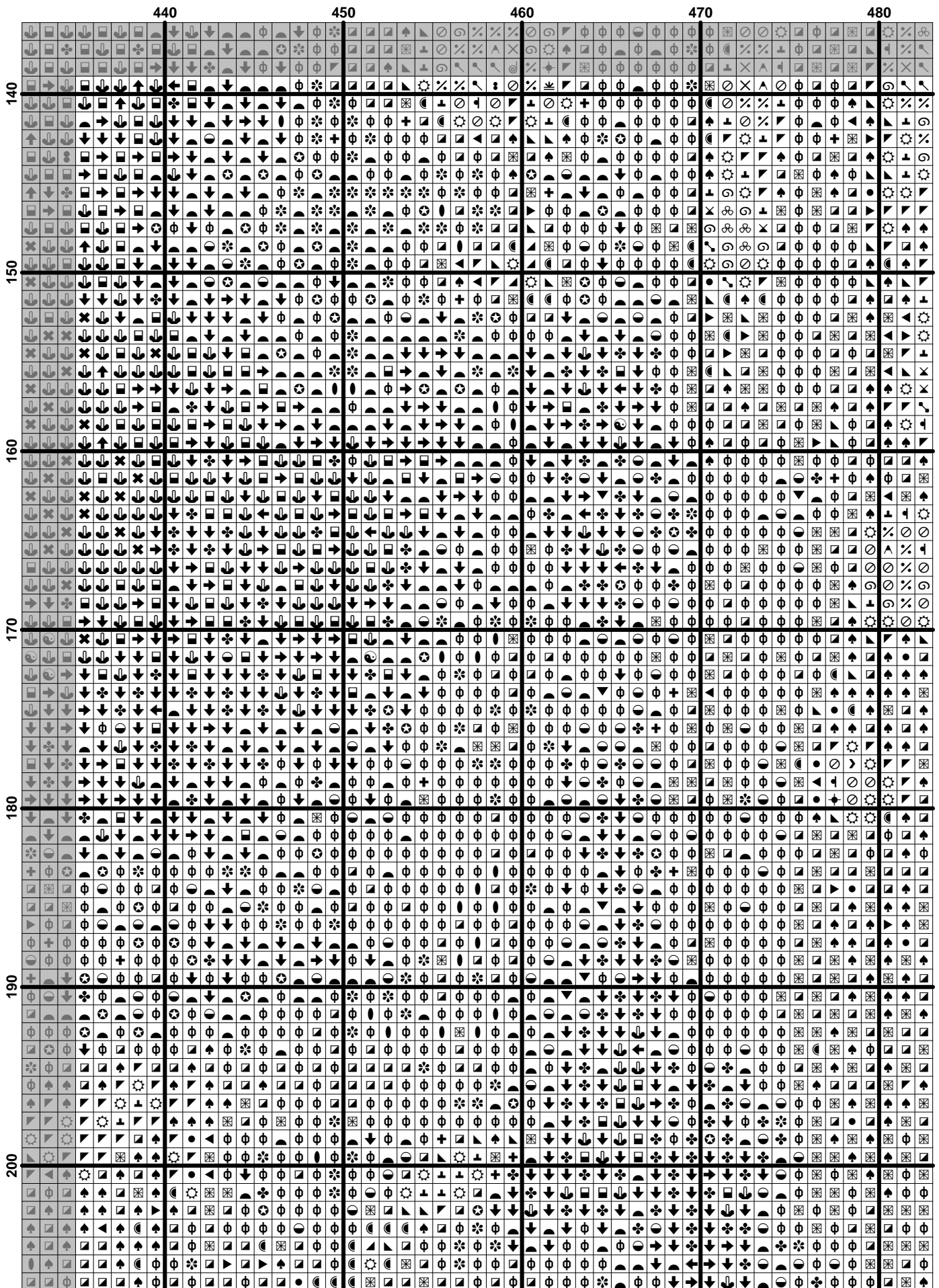
$$(38) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

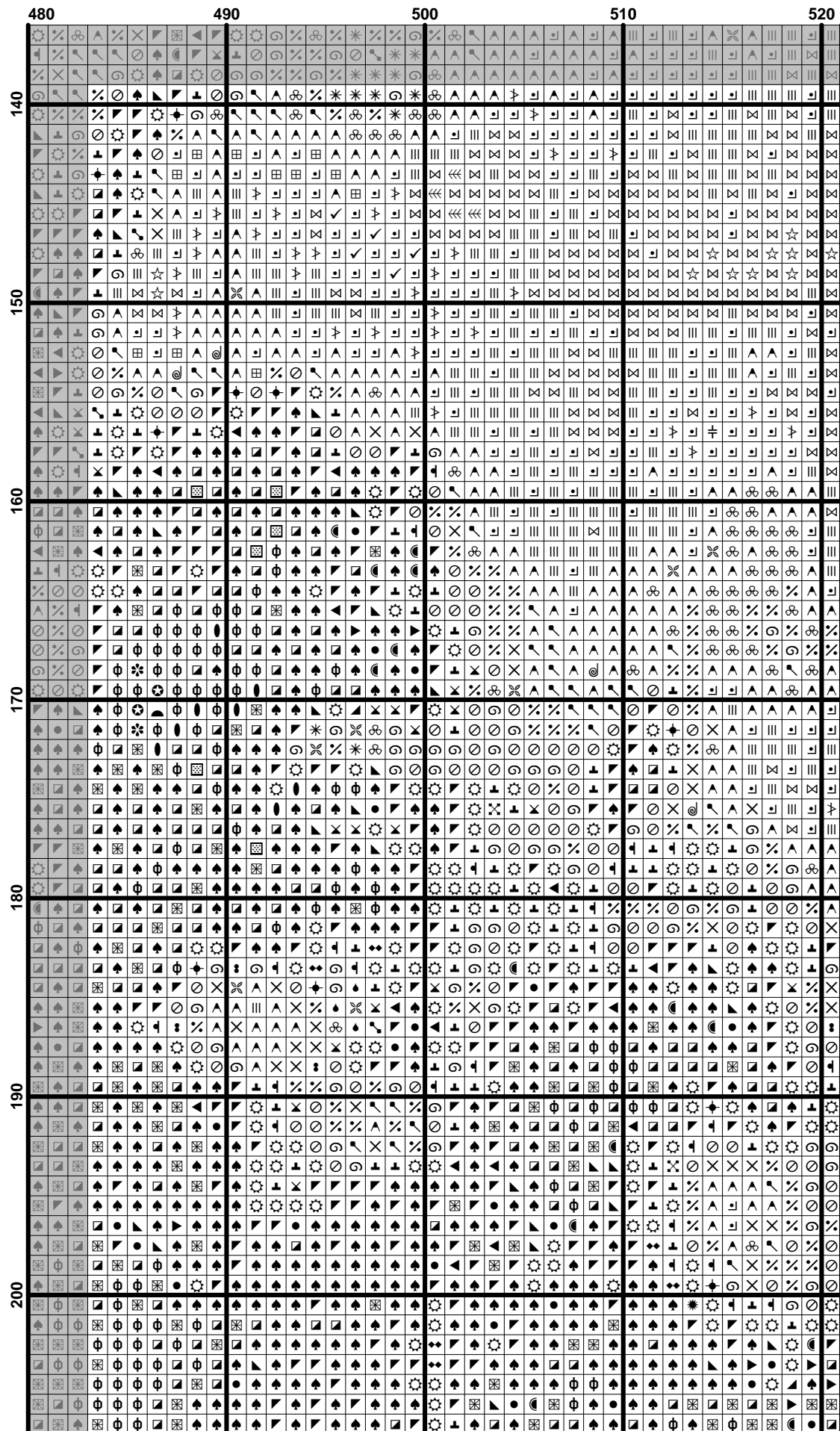
$$(39) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

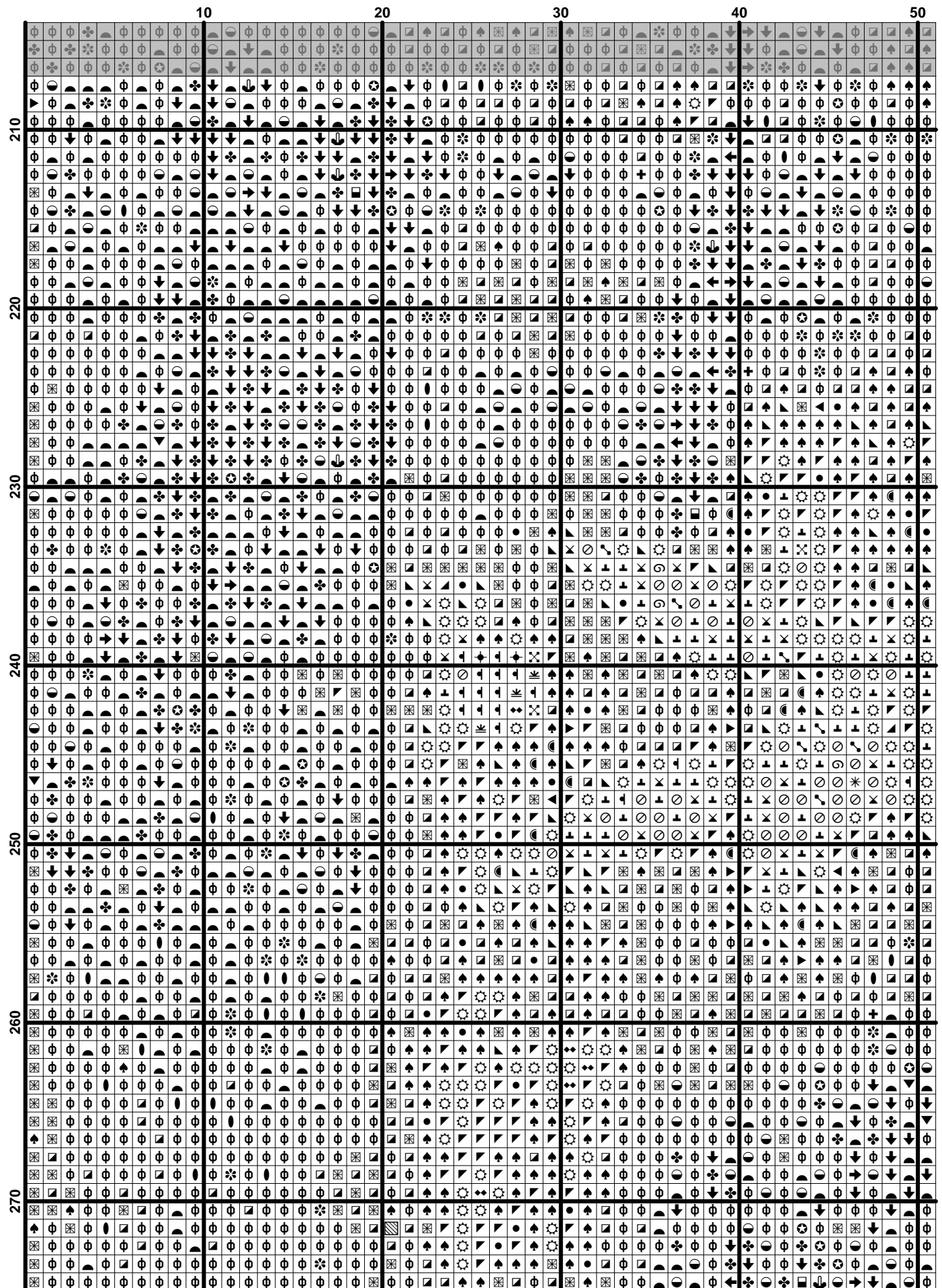
[illegible]

(42)

[illegible]







(47)

[illegible]

[illegible]

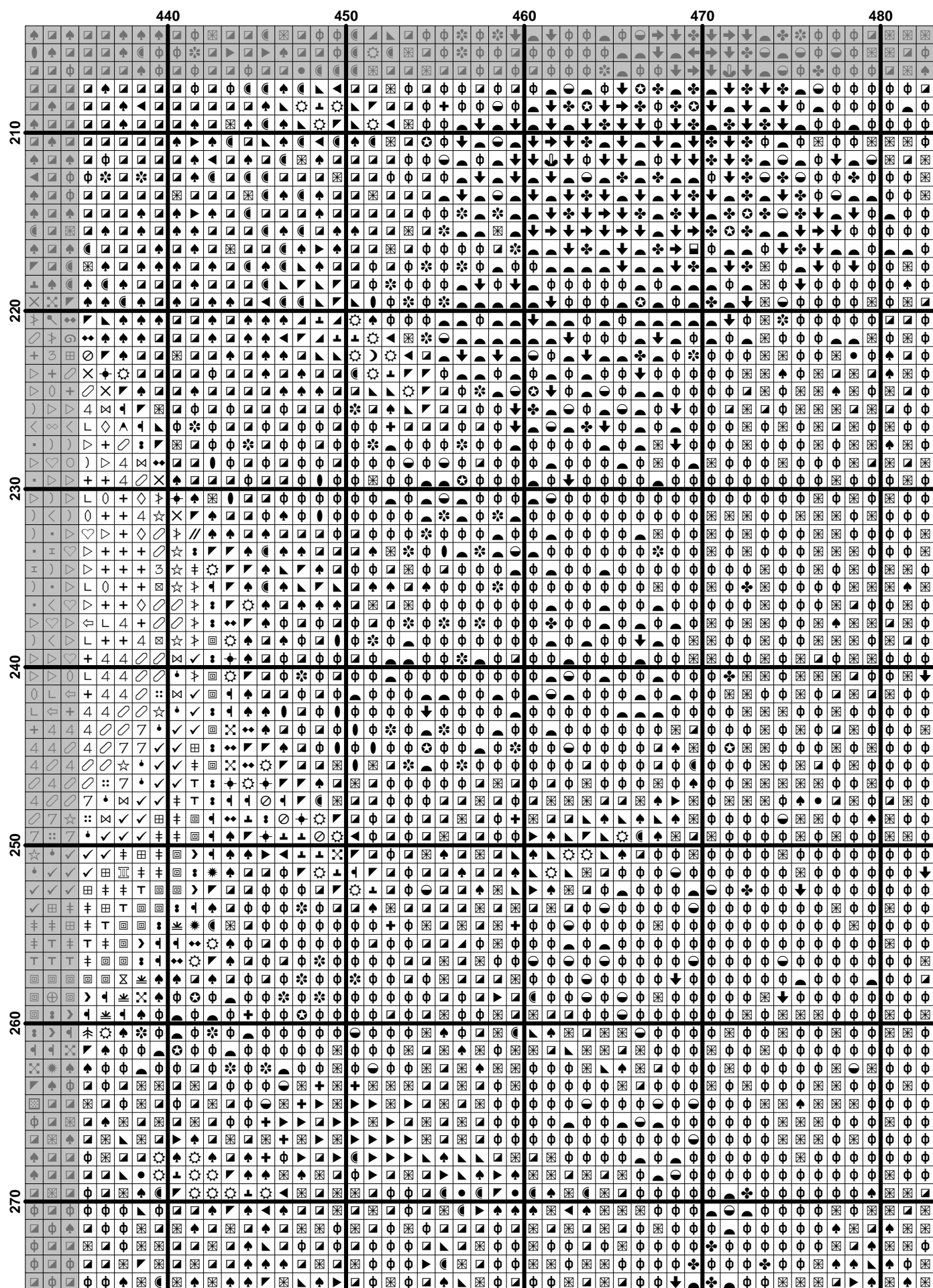
$$(49) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

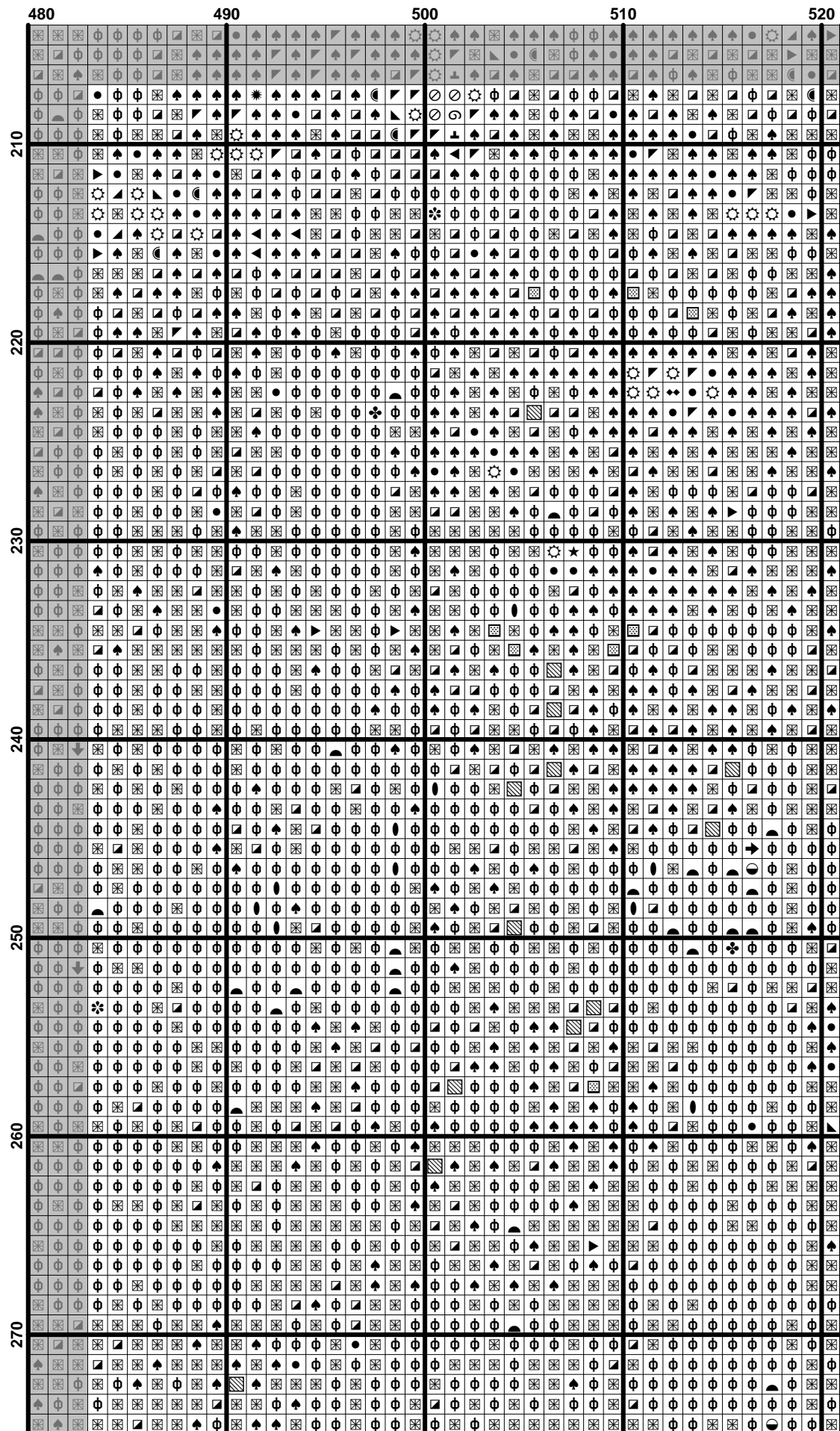
(51)

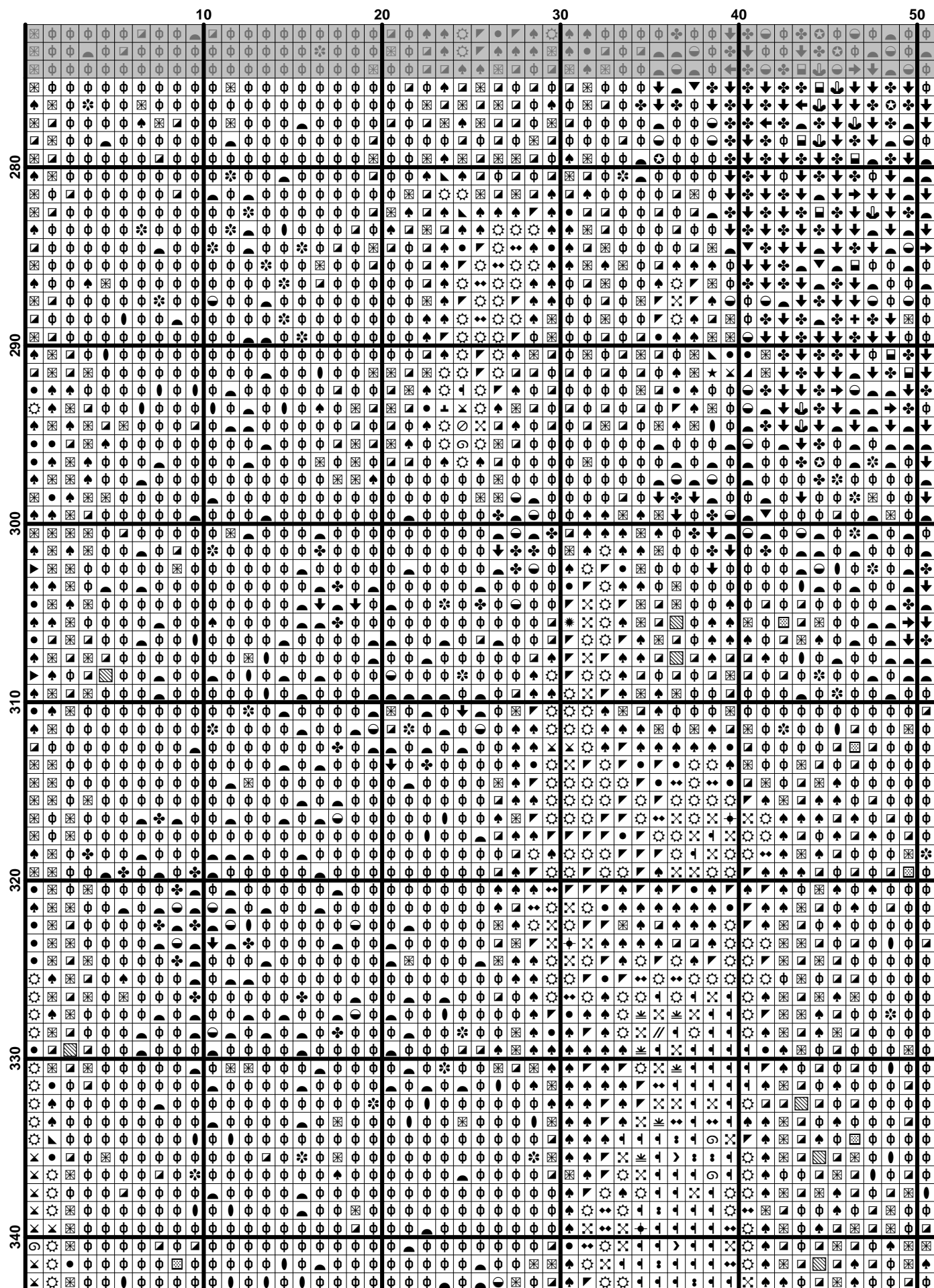
[illegible]

[illegible]

$$(53) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$







(58)

$$(58) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

[illegible]

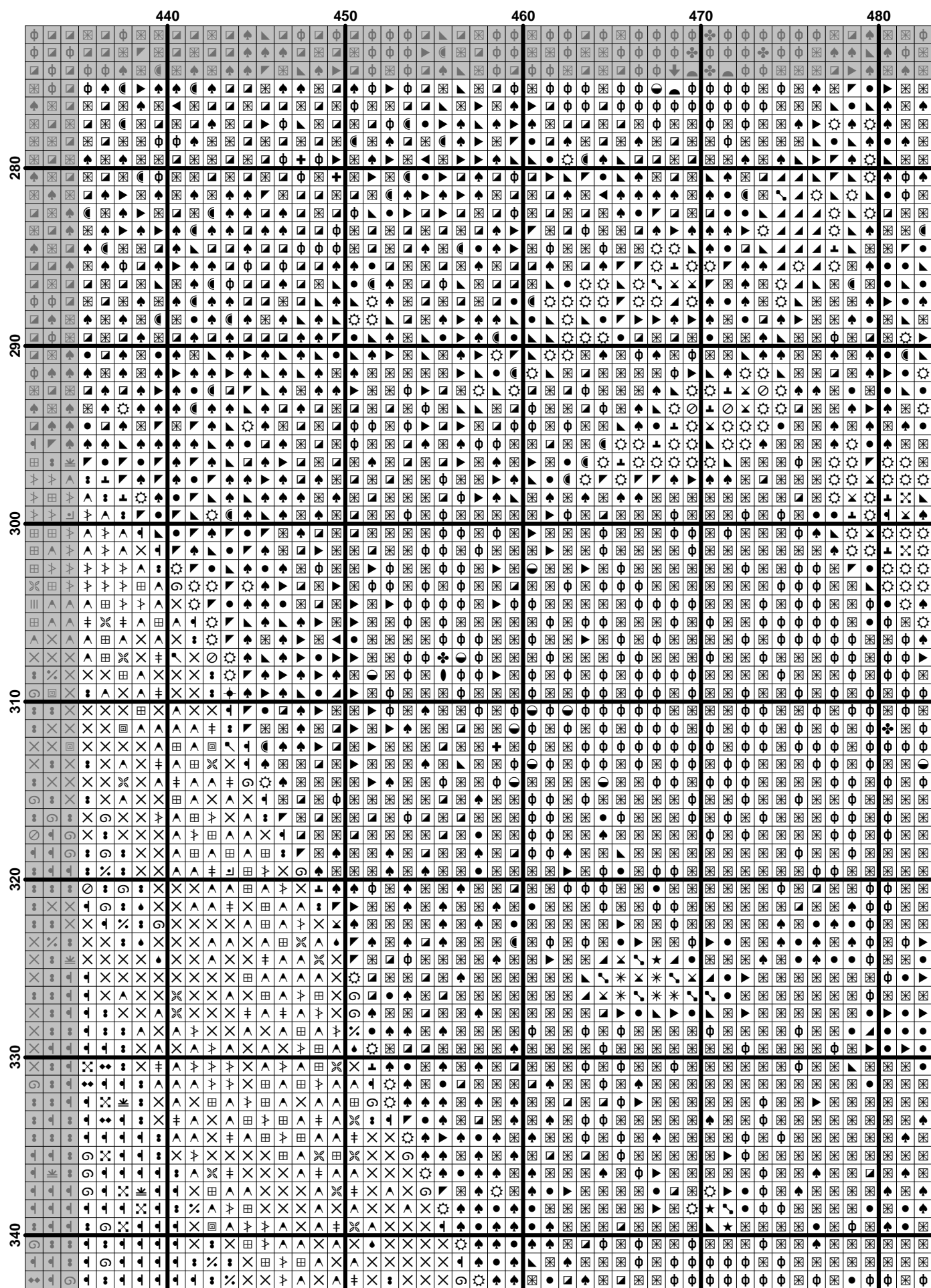
[illegible]

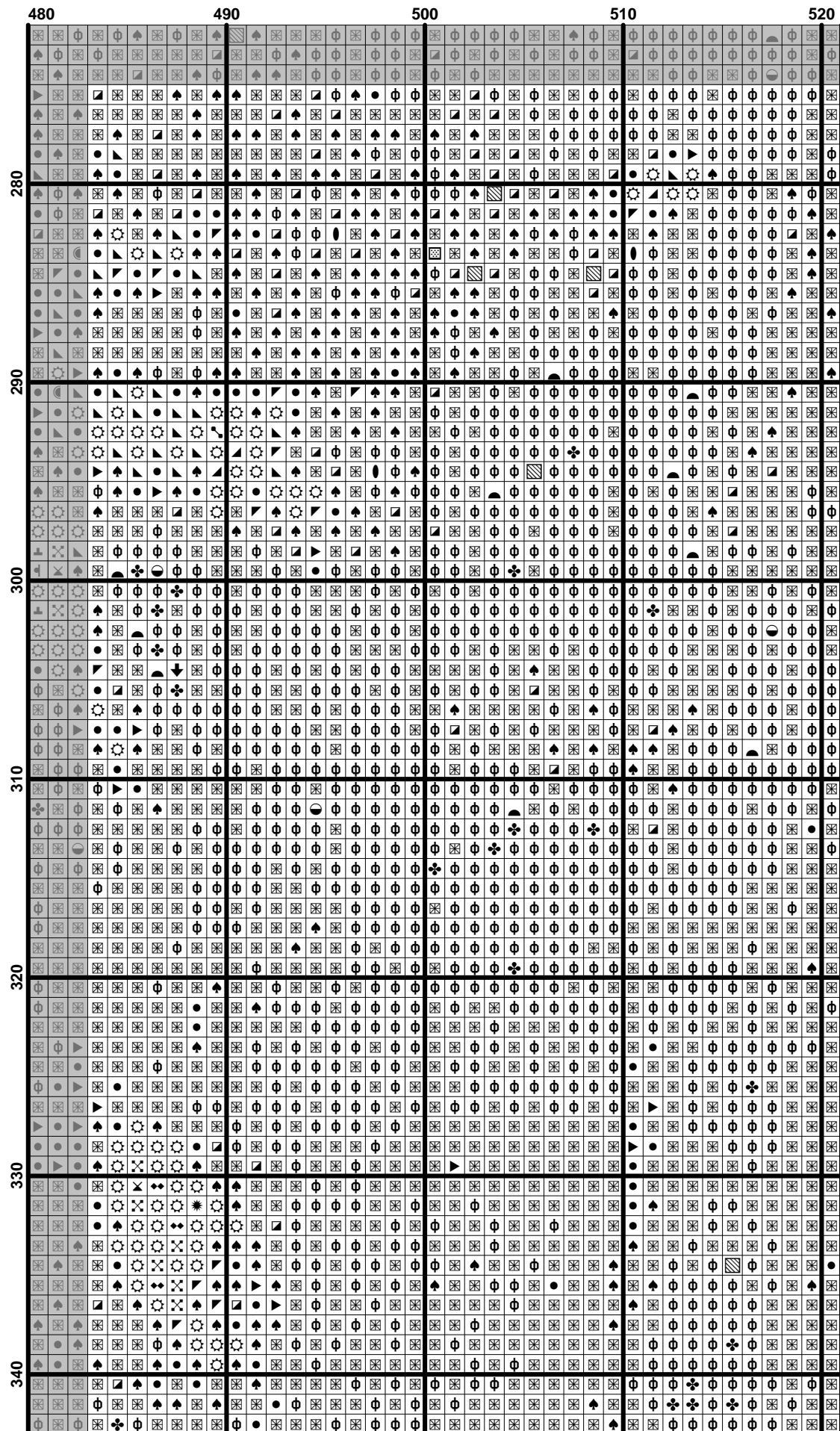
240	250	260	270	280	290
<div>280</div> <div>290</div> <div>300</div> <div>310</div> <div>320</div> <div>330</div> <div>340</div>	<div>280</div> <div>290</div> <div>300</div> <div>310</div> <div>320</div> <div>330</div> <div>340</div>	<div>280</div> <div>290</div> <div>300</div> <div>310</div> <div>320</div> <div>330</div> <div>340</div>	<div>280</div> <div>290</div> <div>300</div> <div>310</div> <div>320</div> <div>330</div> <div>340</div>	<div>280</div> <div>290</div> <div>300</div> <div>310</div> <div>320</div> <div>330</div> <div>340</div>	<div>280</div> <div>290</div> <div>300</div> <div>310</div> <div>320</div> <div>330</div> <div>340</div>

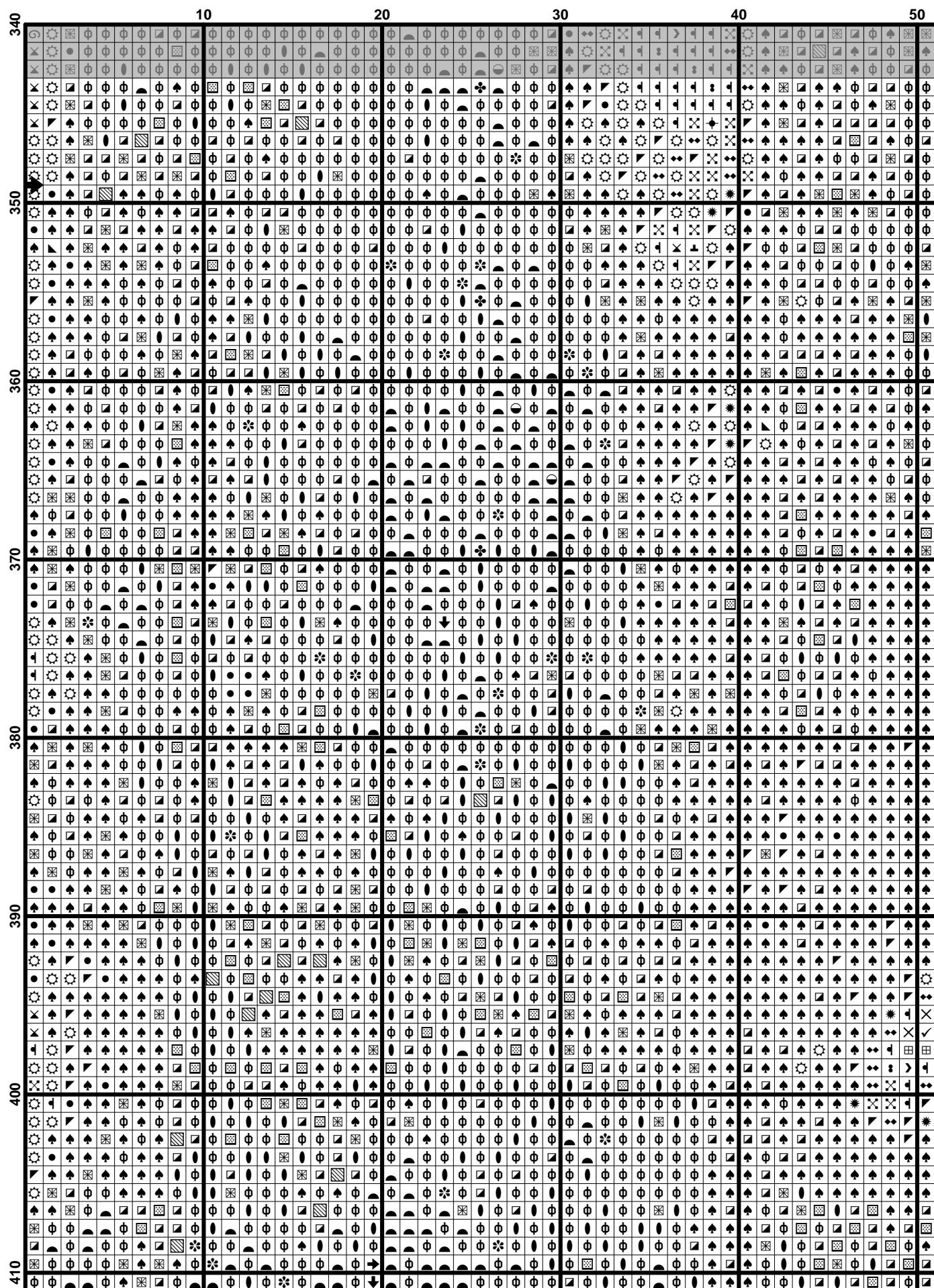
$$(62) \quad \dots \quad (63)$$

[illegible]

[illegible]







[illegible]

[illegible]

[illegible]

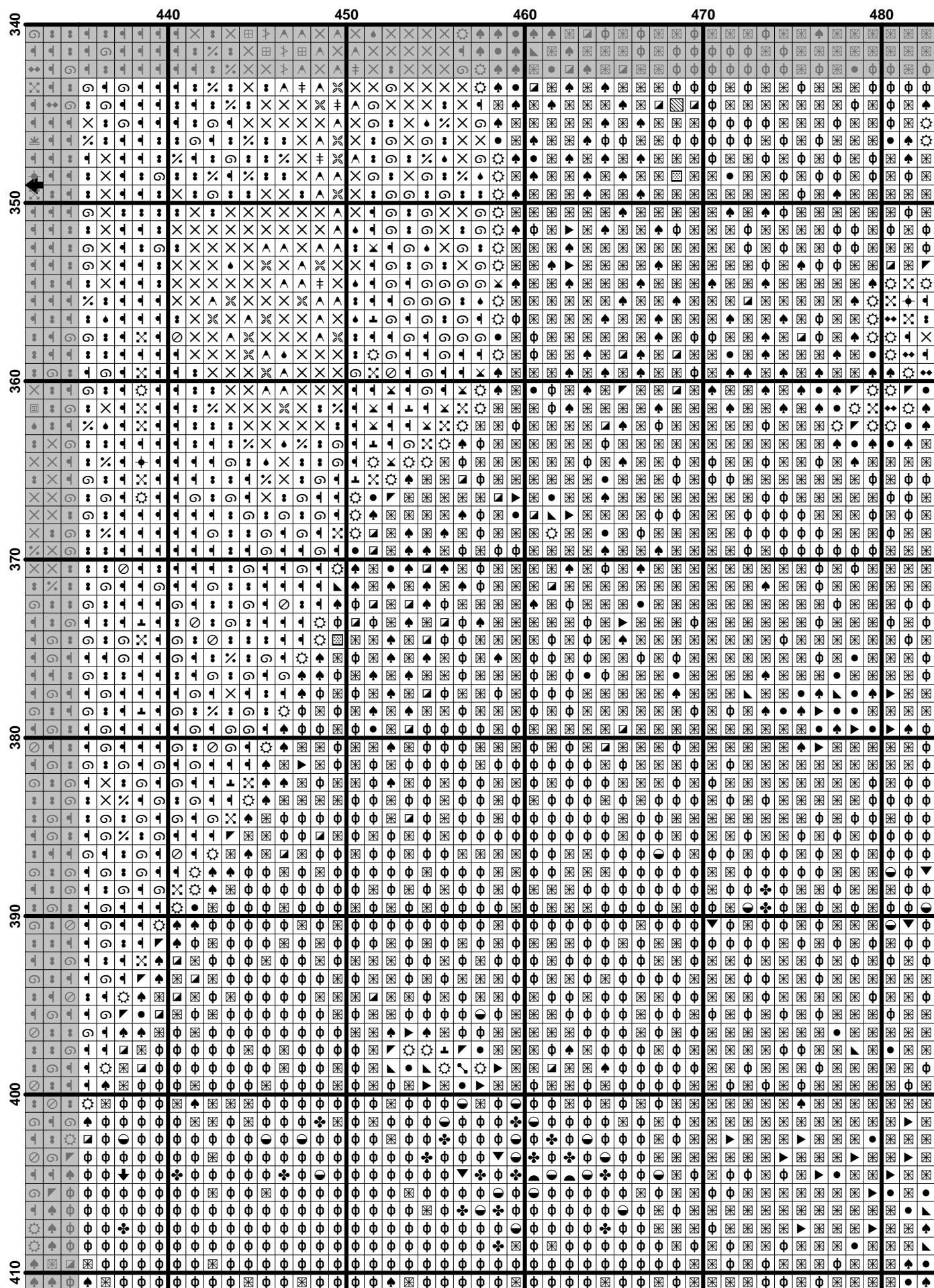
[illegible]

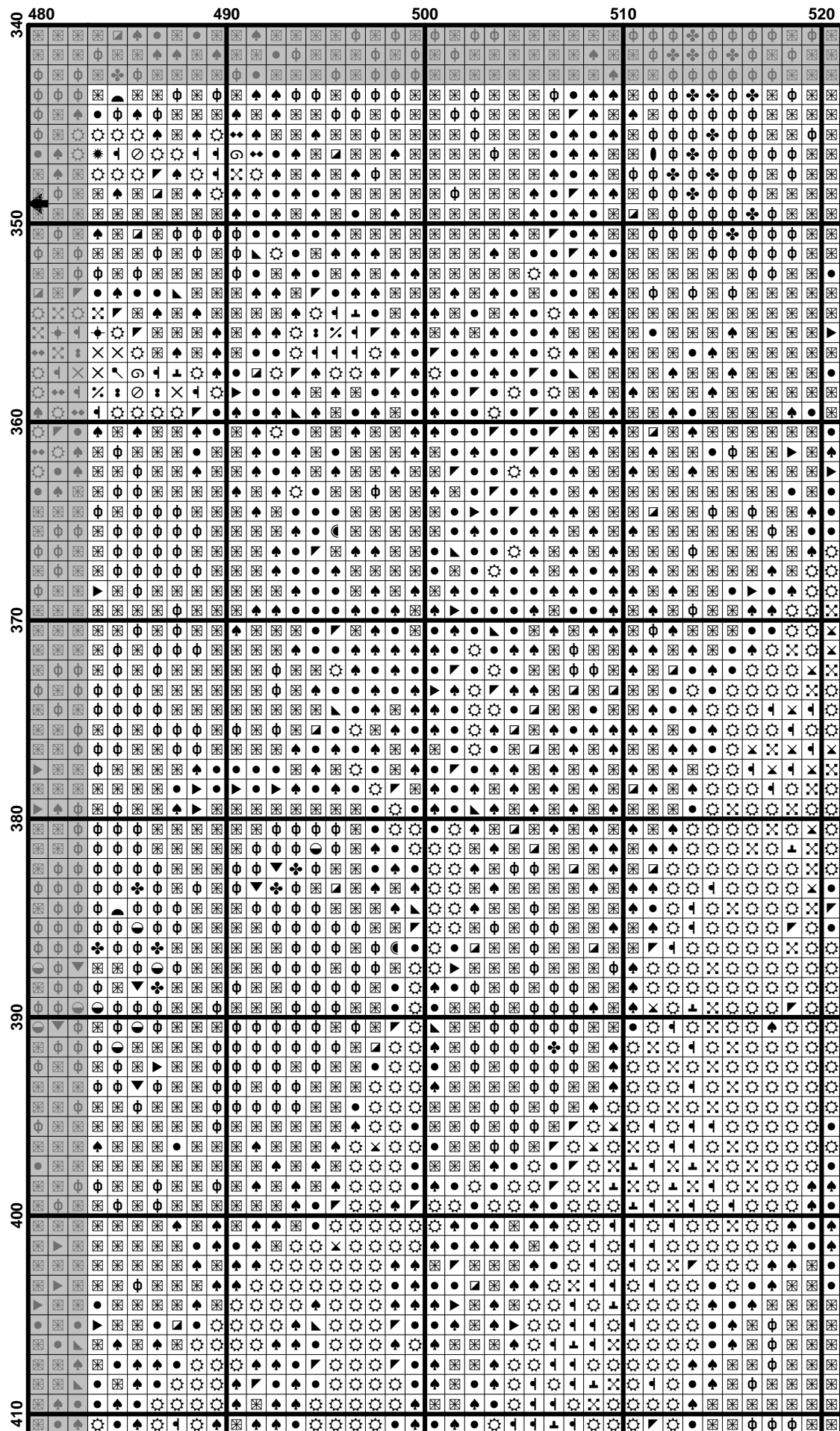
$$(72) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

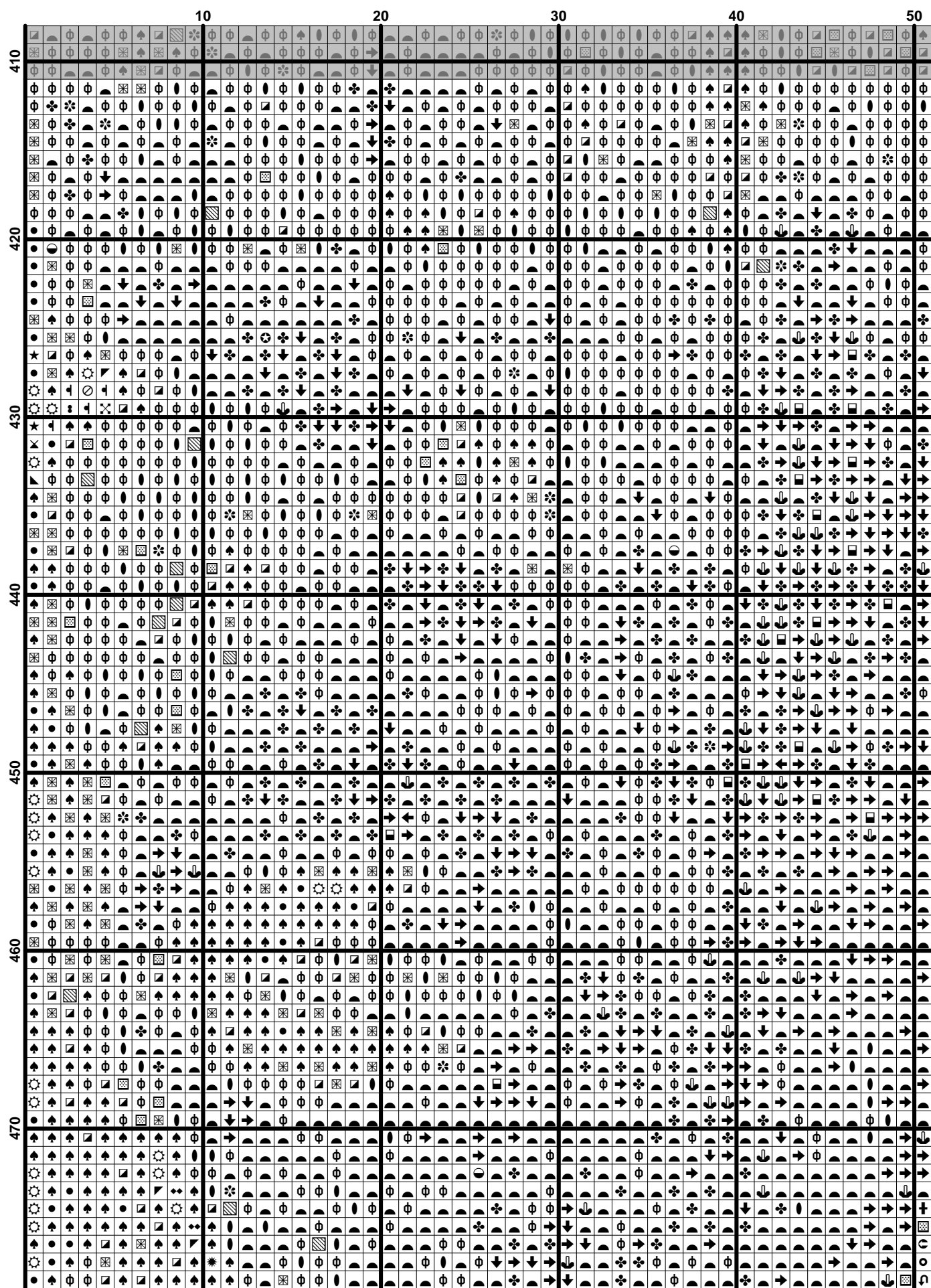
	290	300	310	320	330
340	2	2	2	2	2
350	3	3	3	3	3
360	4	4	4	4	4
370	5	5	5	5	5
380	6	6	6	6	6
390	7	7	7	7	7
400	8	8	8	8	8
410	9	9	9	9	9

[illegible]

$$(75) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$







	50	60	70	80	90
410					
420					
430					
440					
450					
460					
470					

$$(80) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

$$(81) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

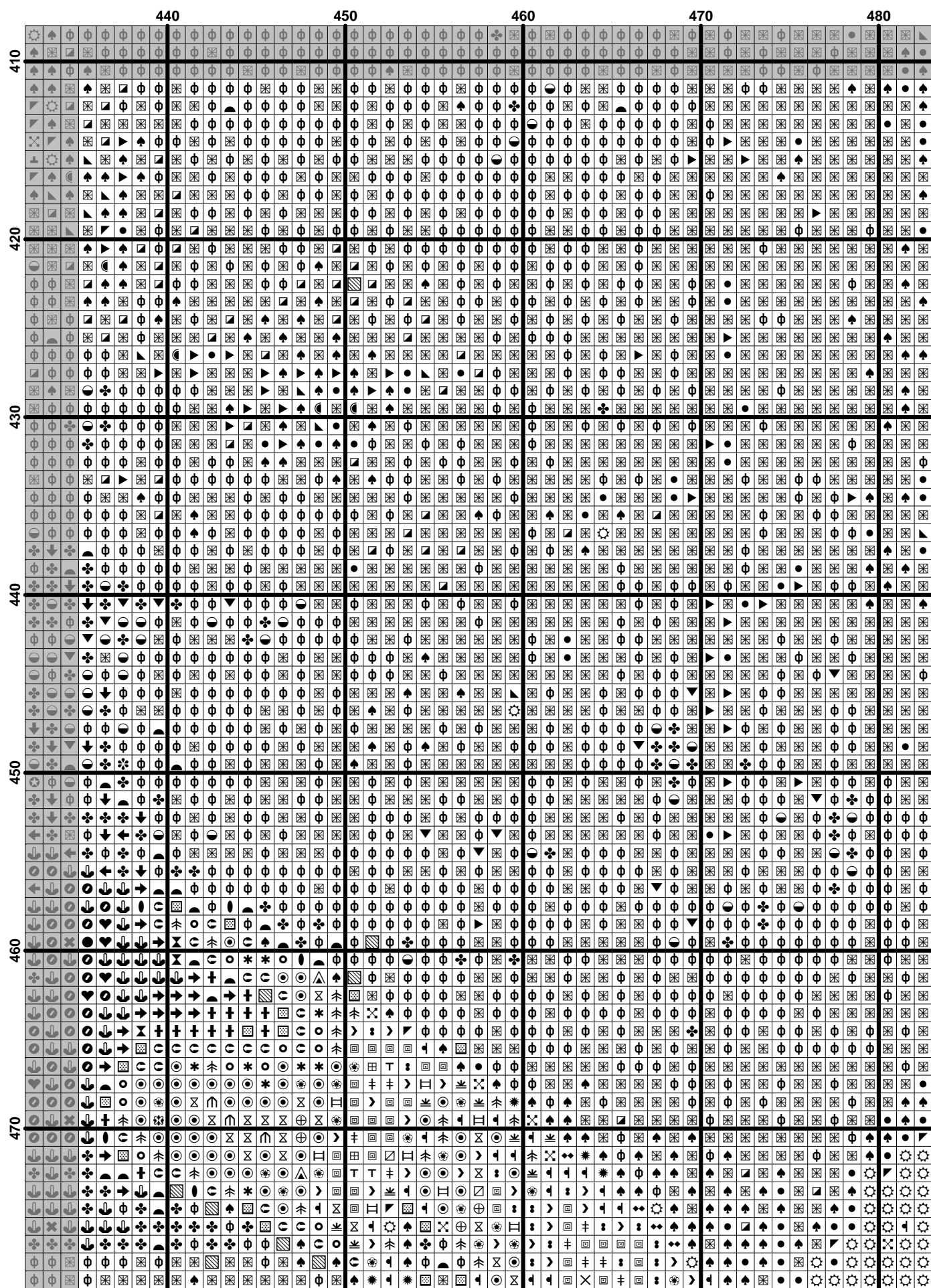
(83)

[illegible]

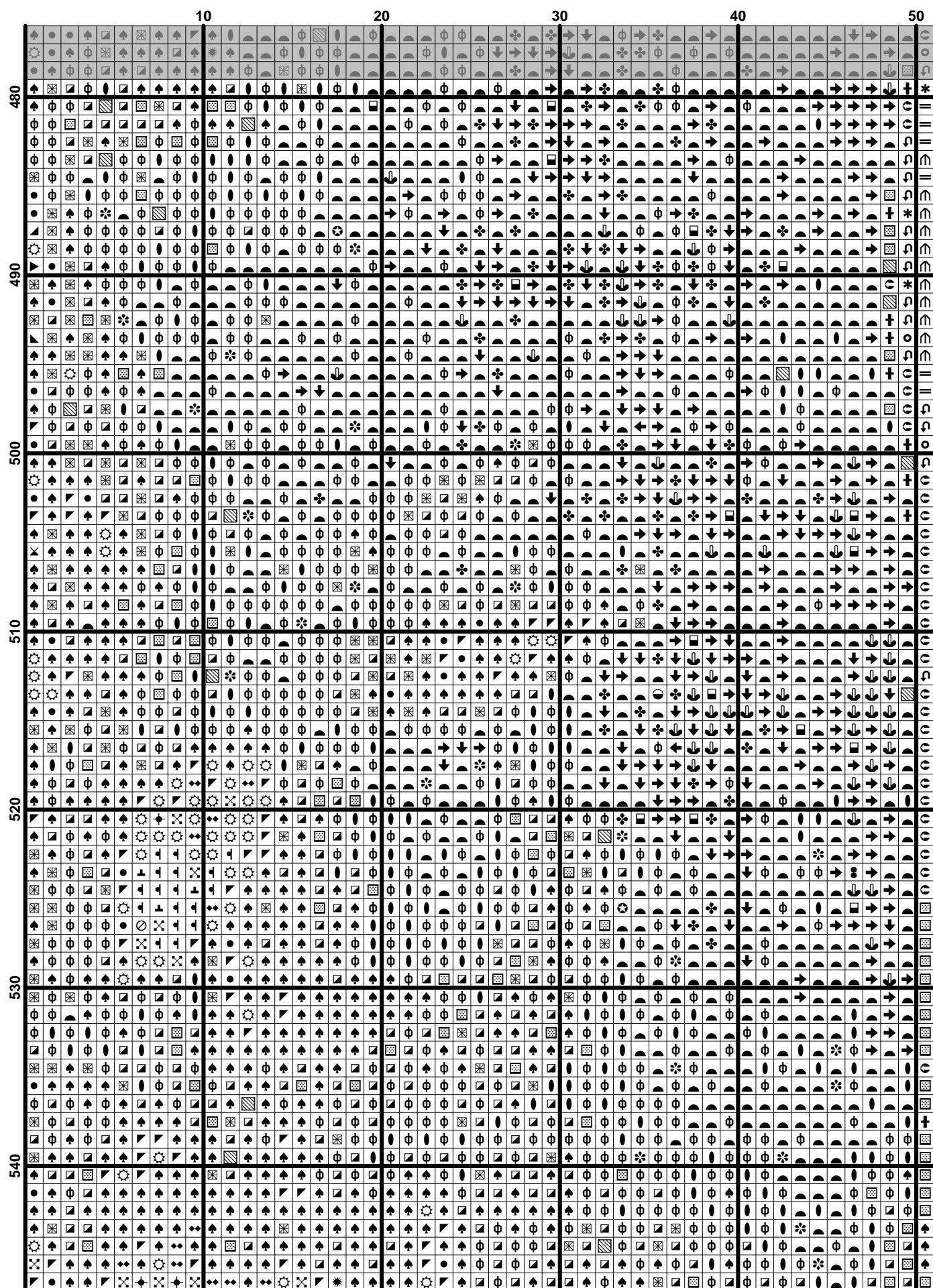
	290	300	310	320	330
410	田	田	田	田	田
411	田	田	田	田	田
412	田	田	田	田	田
413	田	田	田	田	田
414	田	田	田	田	田
415	田	田	田	田	田
416	田	田	田	田	田
417	田	田	田	田	田
418	田	田	田	田	田
419	田	田	田	田	田
420	田	田	田	田	田
421	田	田	田	田	田
422	田	田	田	田	田
423	田	田	田	田	田
424	田	田	田	田	田
425	田	田	田	田	田
426	田	田	田	田	田
427	田	田	田	田	田
428	田	田	田	田	田
429	田	田	田	田	田
430	田	田	田	田	田
431	田	田	田	田	田
432	田	田	田	田	田
433	田	田	田	田	田
434	田	田	田	田	田
435	田	田	田	田	田
436	田	田	田	田	田
437	田	田	田	田	田
438	田	田	田	田	田
439	田	田	田	田	田
440	田	田	田	田	田
441	田	田	田	田	田
442	田	田	田	田	田
443	田	田	田	田	田
444	田	田	田	田	田
445	田	田	田	田	田
446	田	田	田	田	田
447	田	田	田	田	田
448	田	田	田	田	田
449	田	田	田	田	田
450	田	田	田	田	田
451	田	田	田	田	田
452	田	田	田	田	田
453	田	田	田	田	田
454	田	田	田	田	田
455	田	田	田	田	田
456	田	田	田	田	田
457	田	田	田	田	田
458	田	田	田	田	田
459	田	田	田	田	田
460	田	田	田	田	田
461	田	田	田	田	田
462	田	田	田	田	田
463	田	田	田	田	田
464	田	田	田	田	田
465	田	田	田	田	田
466	田	田	田	田	田
467	田	田	田	田	田
468	田	田	田	田	田
469	田	田	田	田	田
470	田	田	田	田	田
471	田	田	田	田	田
472	田	田	田	田	田
473	田	田	田	田	田
474	田	田	田	田	田
475	田	田	田	田	田
476	田	田	田	田	田
477	田	田	田	田	田
478	田	田	田	田	田
479	田	田	田	田	田
480	田	田	田	田	田
481	田	田	田	田	田
482	田	田	田	田	田
483	田	田	田	田	田
484	田	田	田	田	田
485	田	田	田	田	田
486	田	田	田	田	田
487	田	田	田	田	田
488	田	田	田	田	田
489	田	田	田	田	田
490	田	田	田	田	田
491	田	田	田	田	田
492	田	田	田	田	田
493	田	田	田	田	田
494	田	田	田	田	田
495	田	田	田	田	田
496	田	田	田	田	田
497	田	田	田	田	田
498	田	田	田	田	田
499	田	田	田	田	田

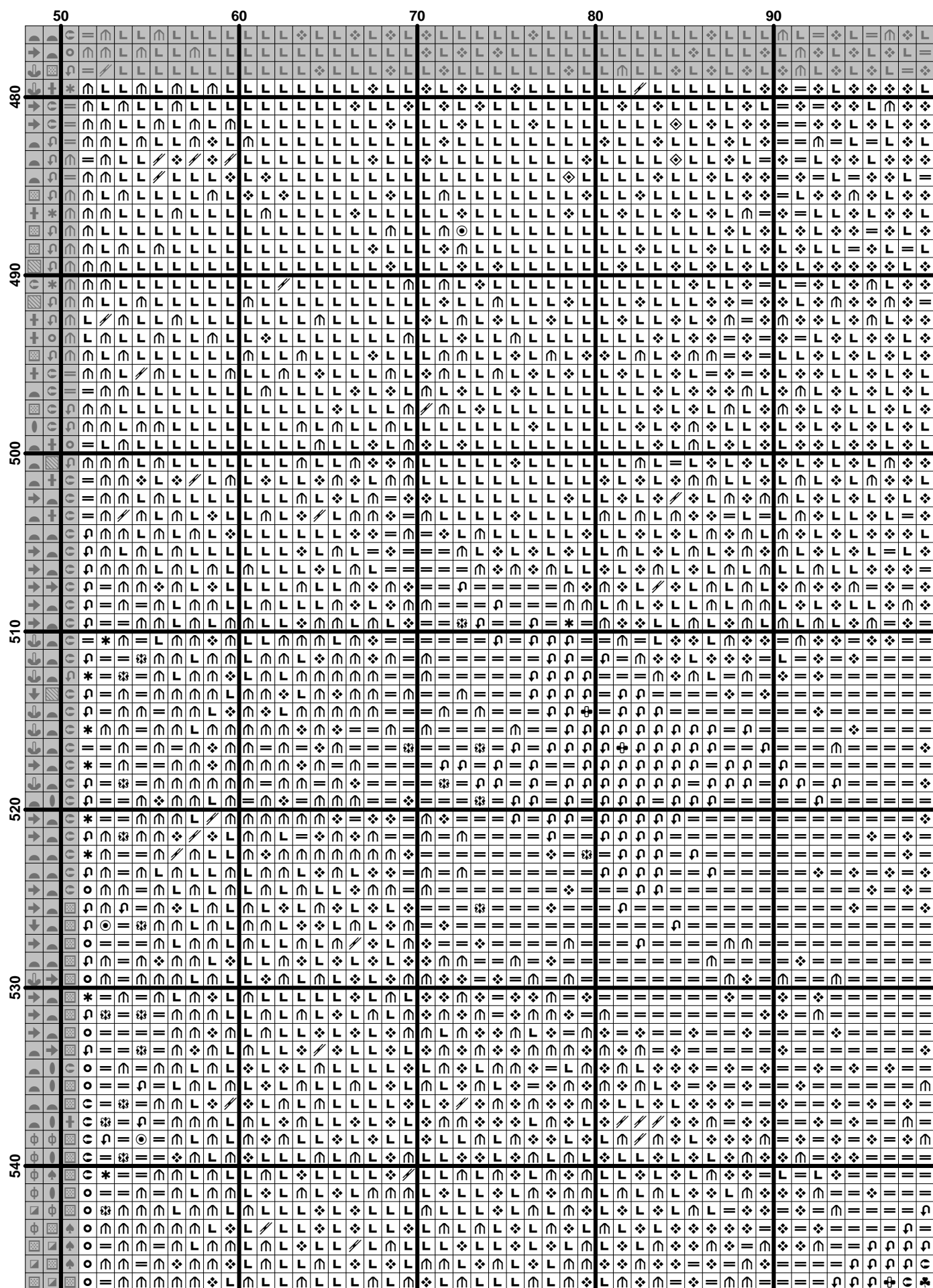
$$(85) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t),$$

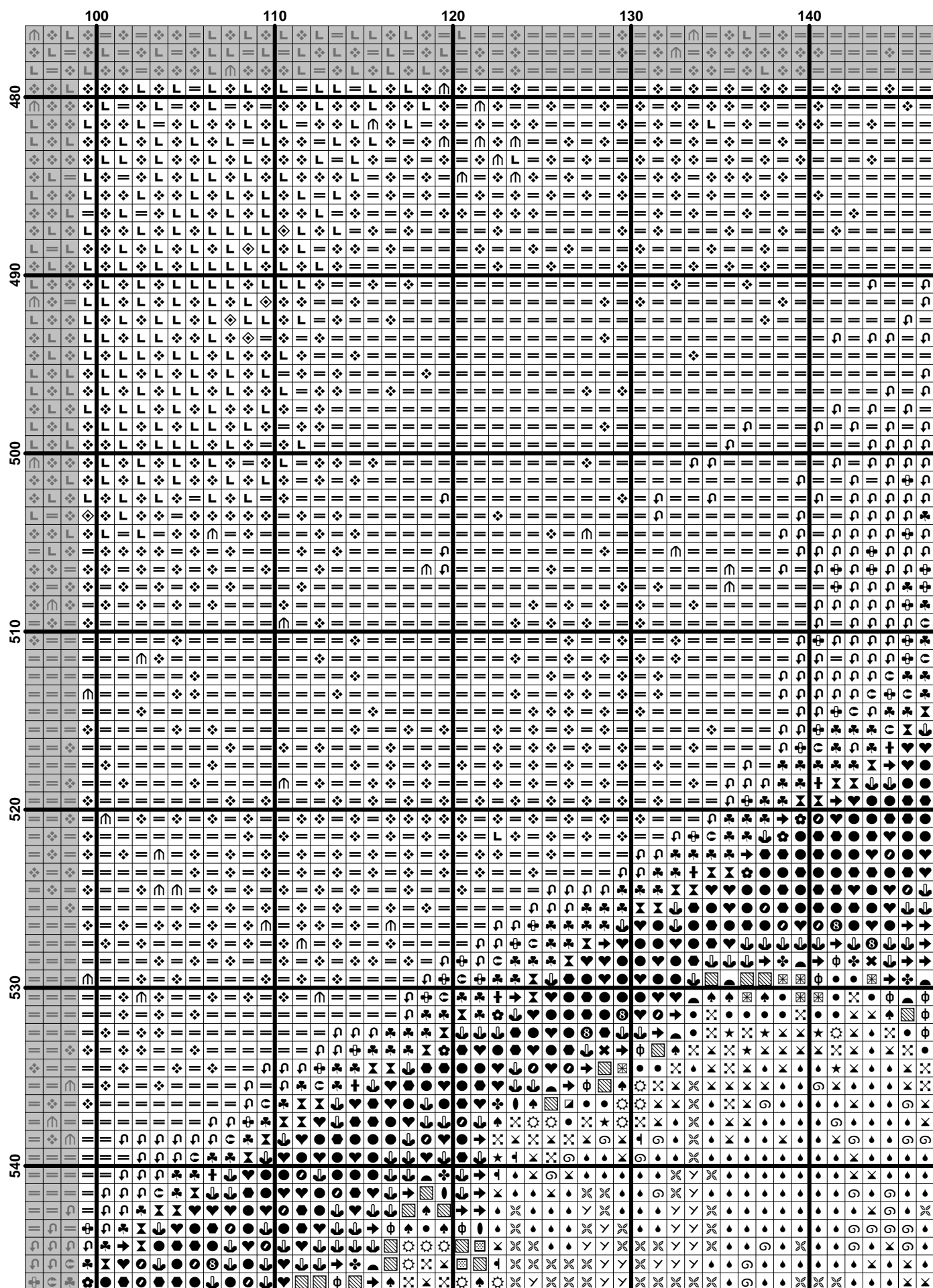
[illegible]

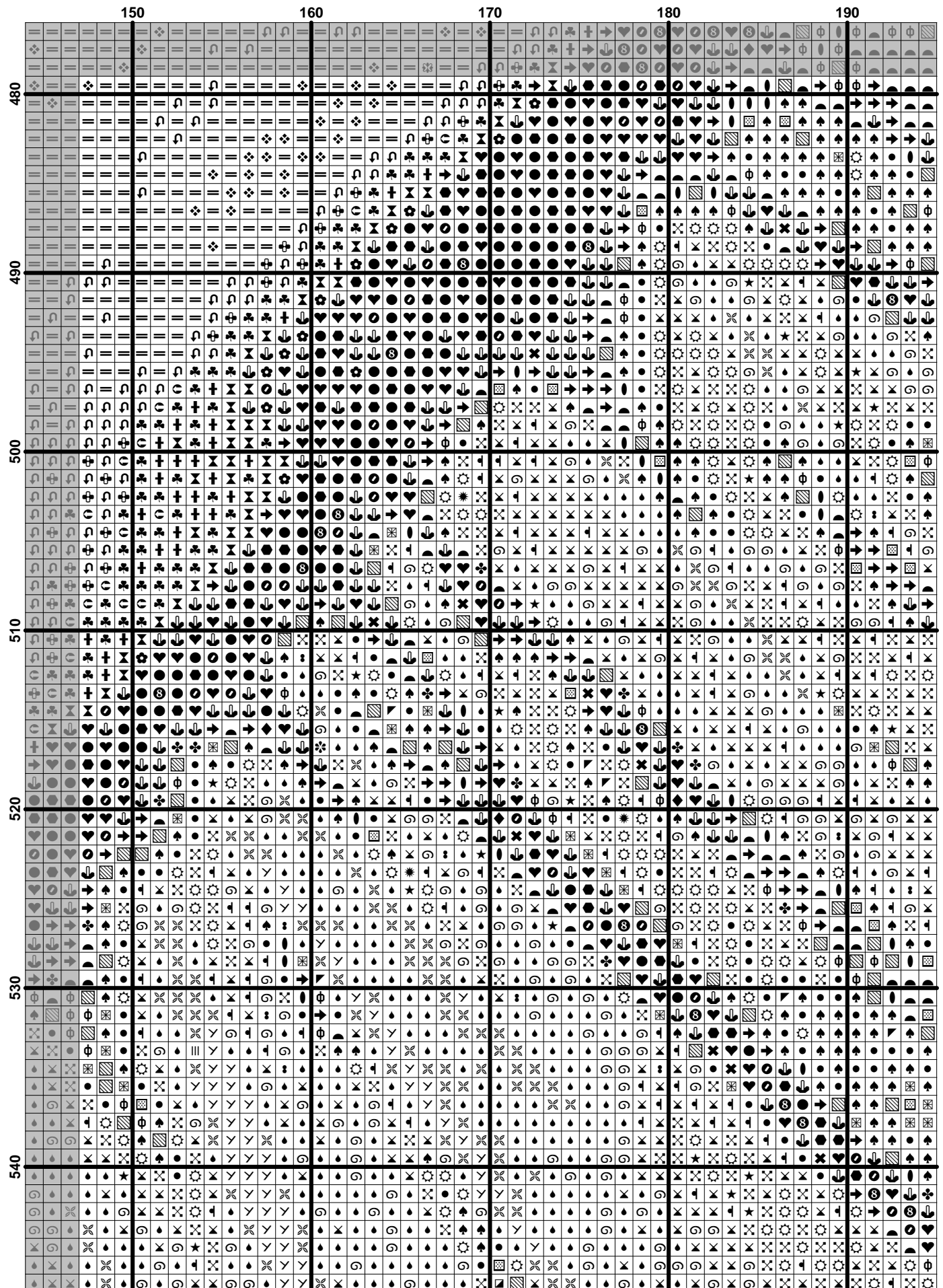


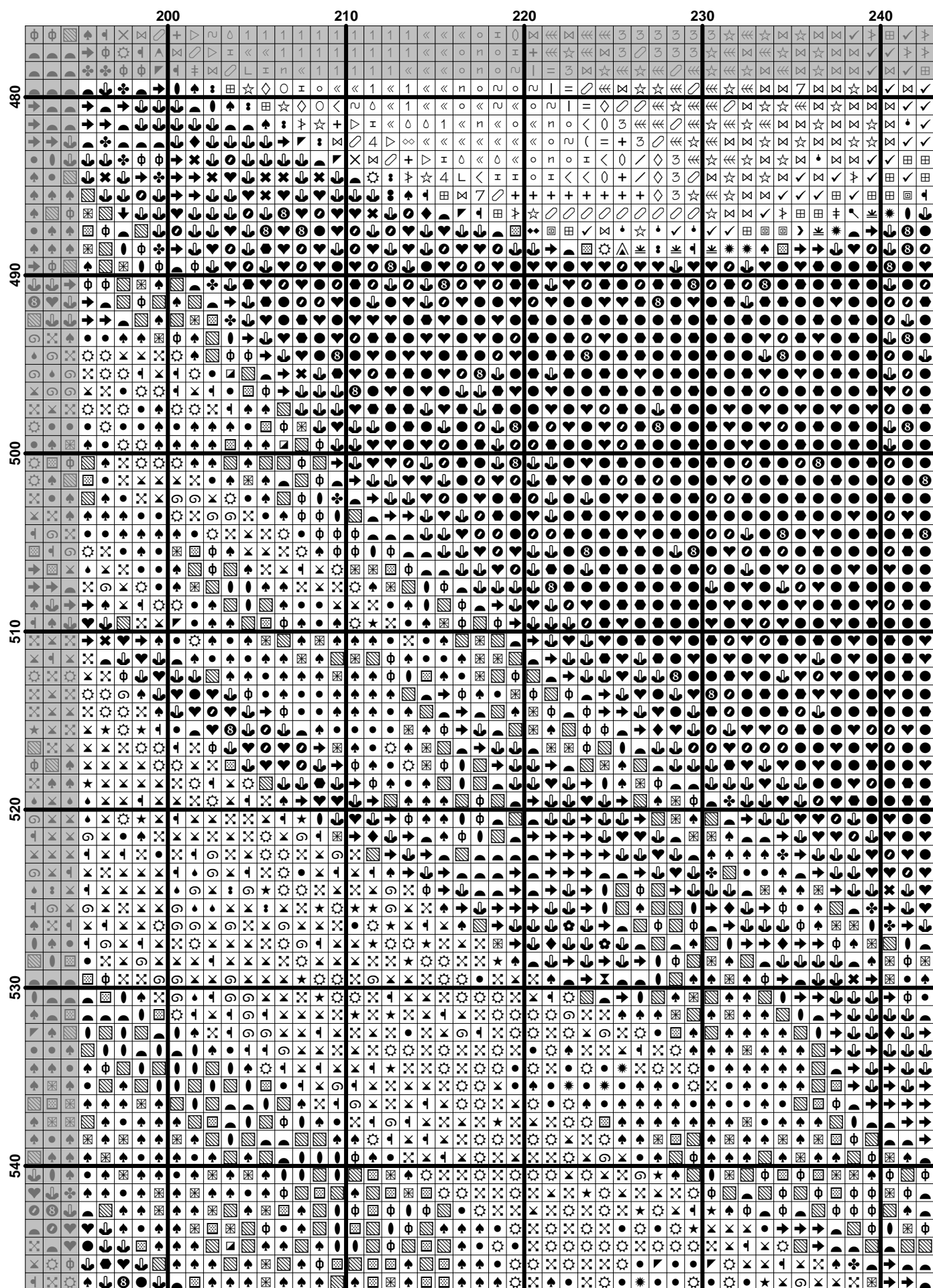


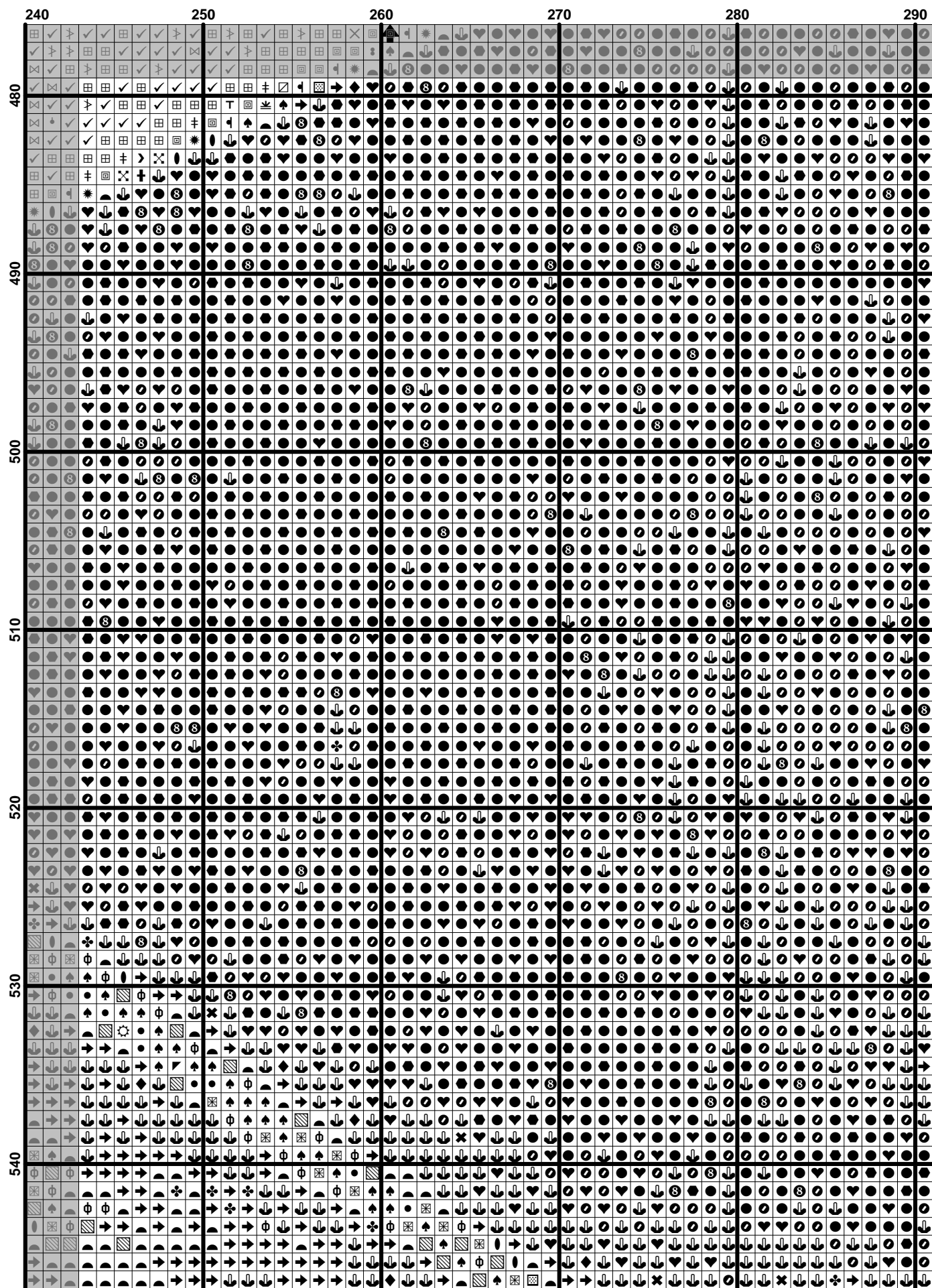


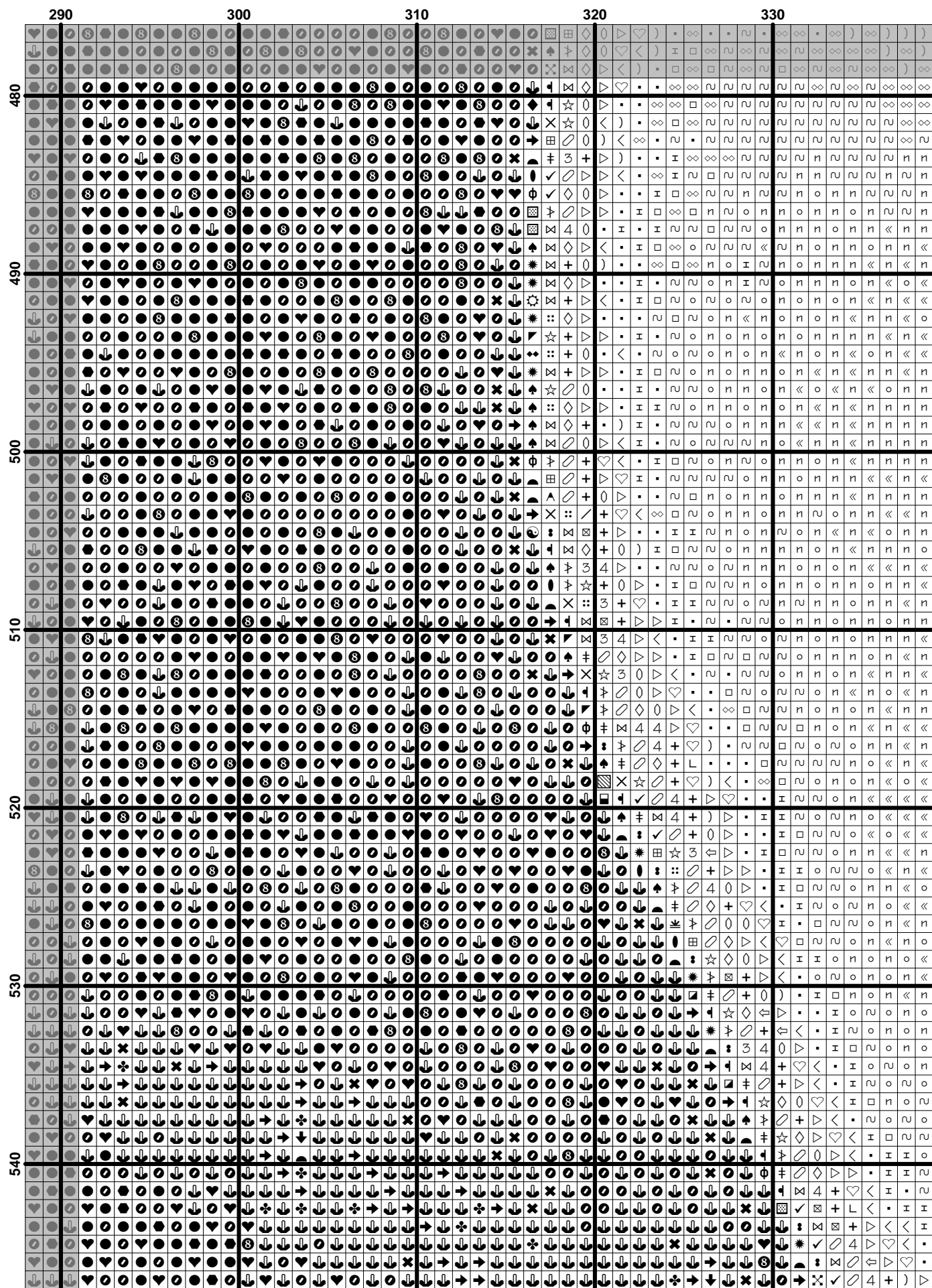




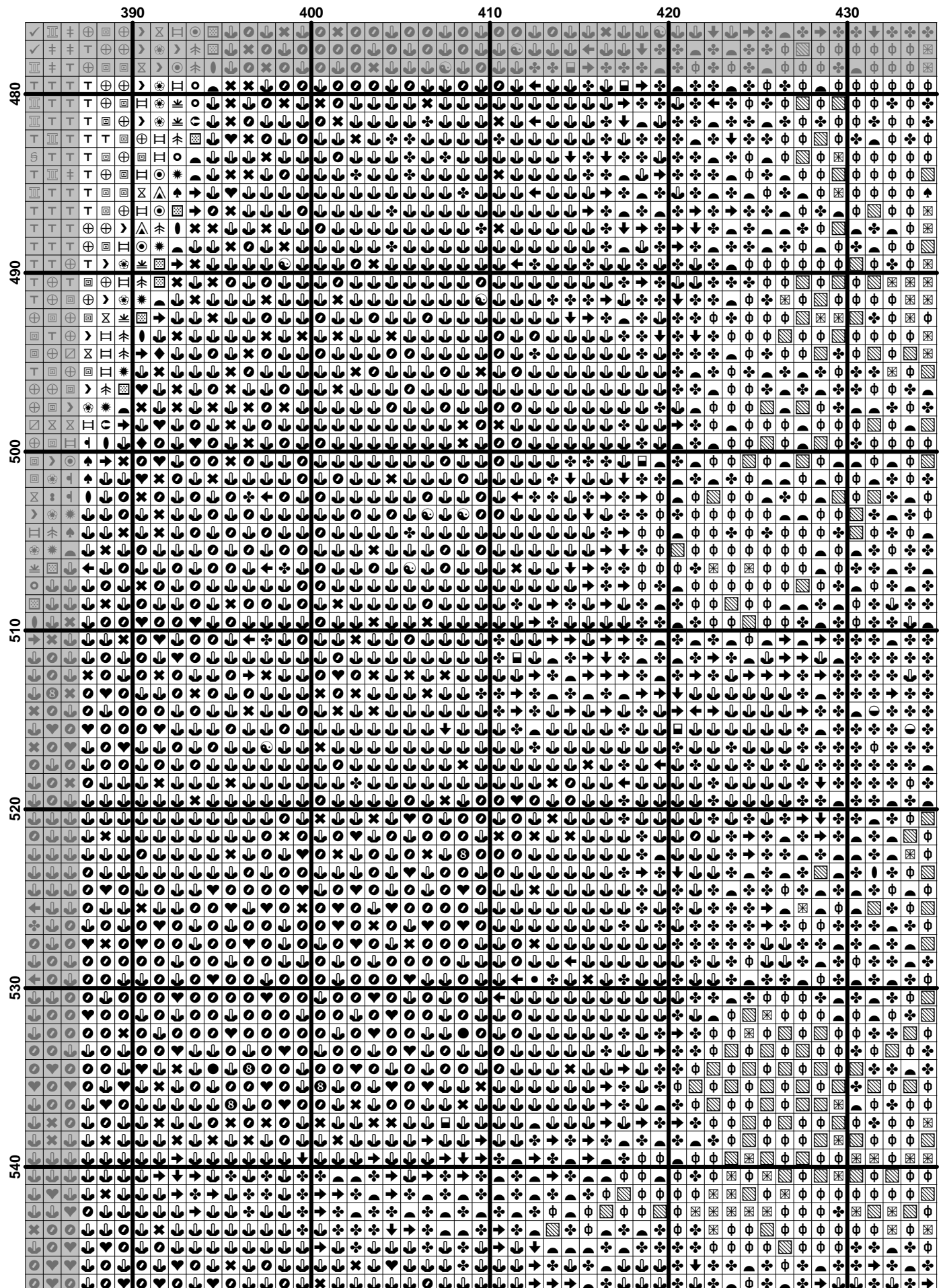


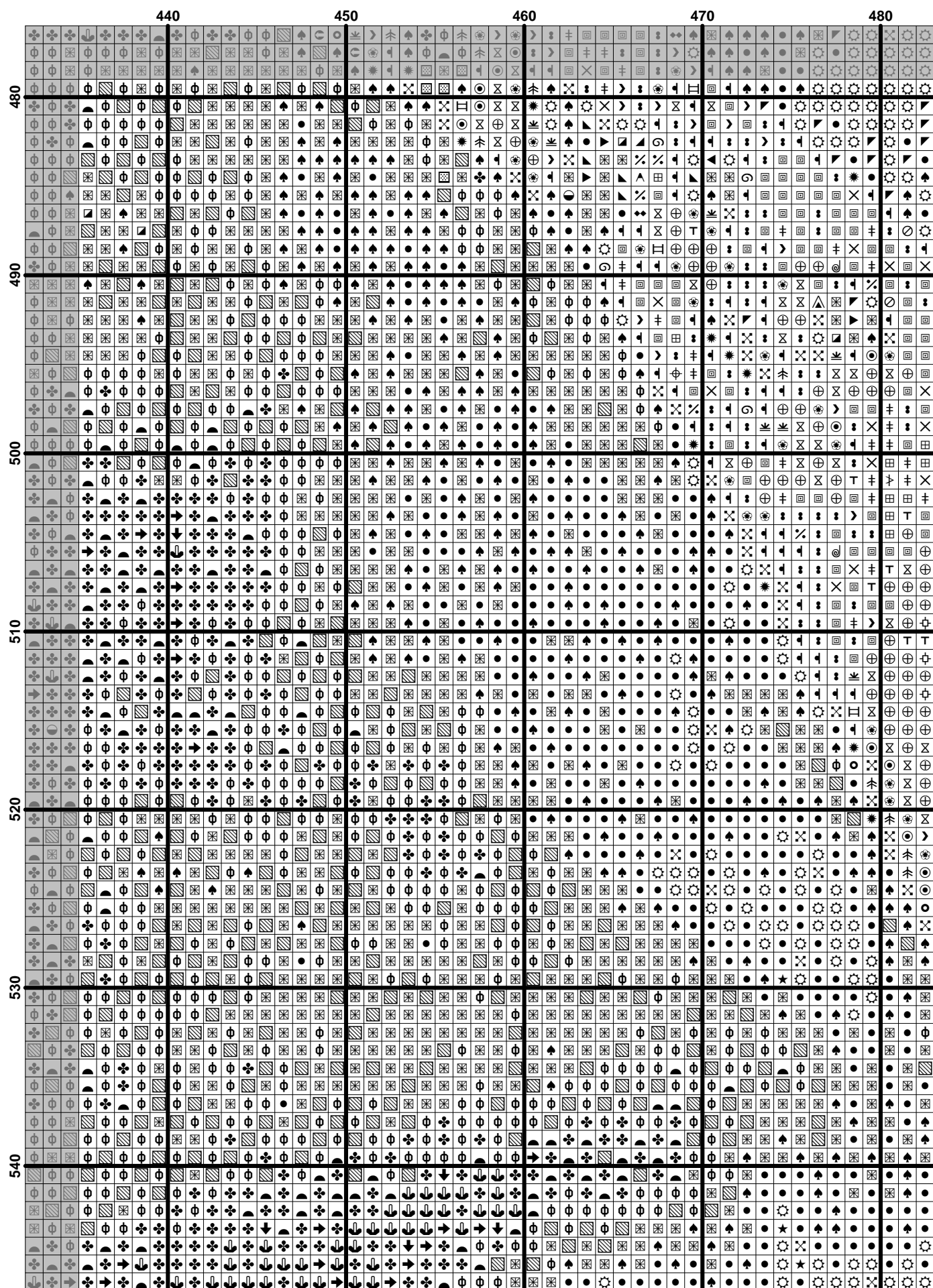


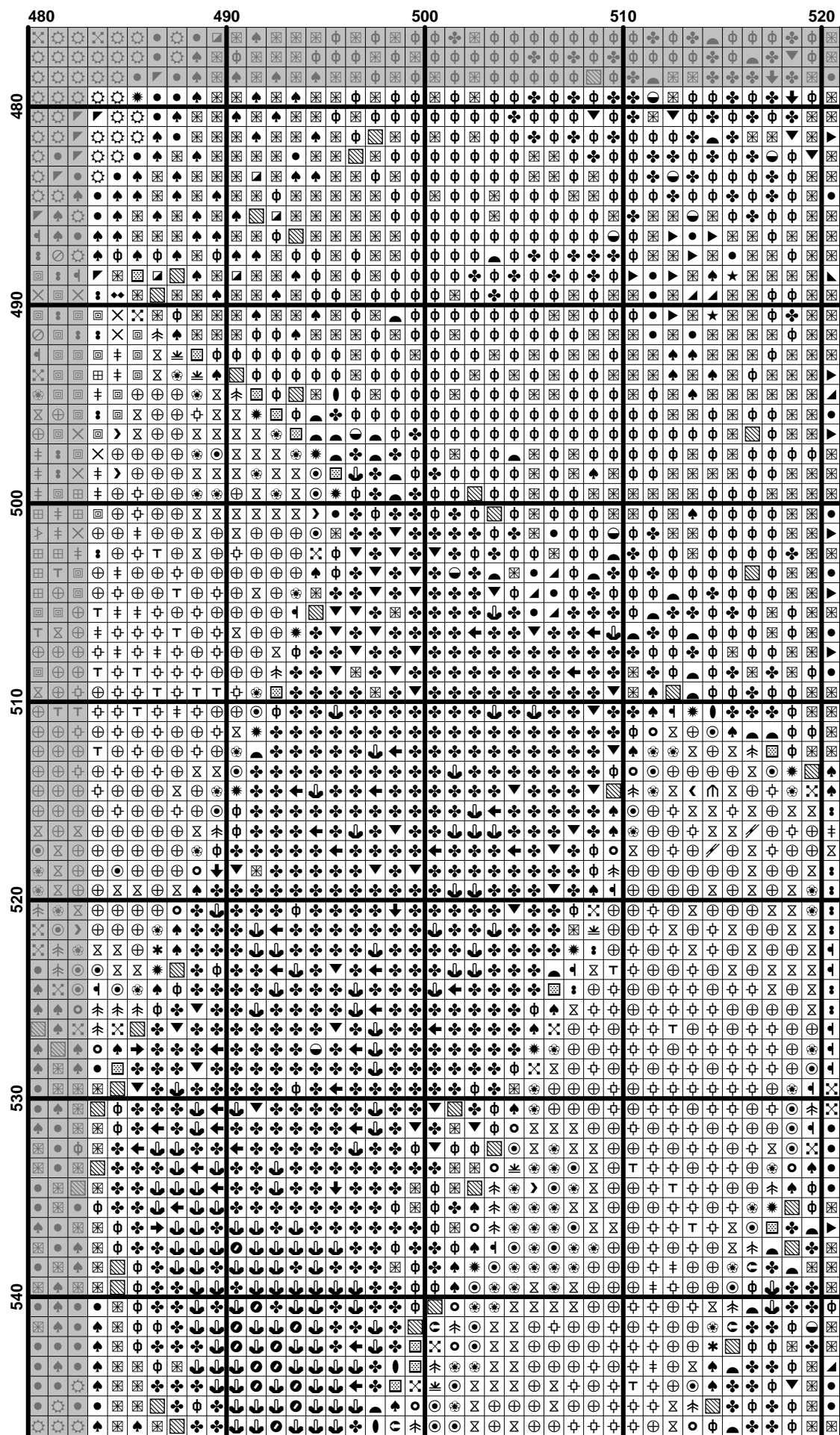




[illegible]

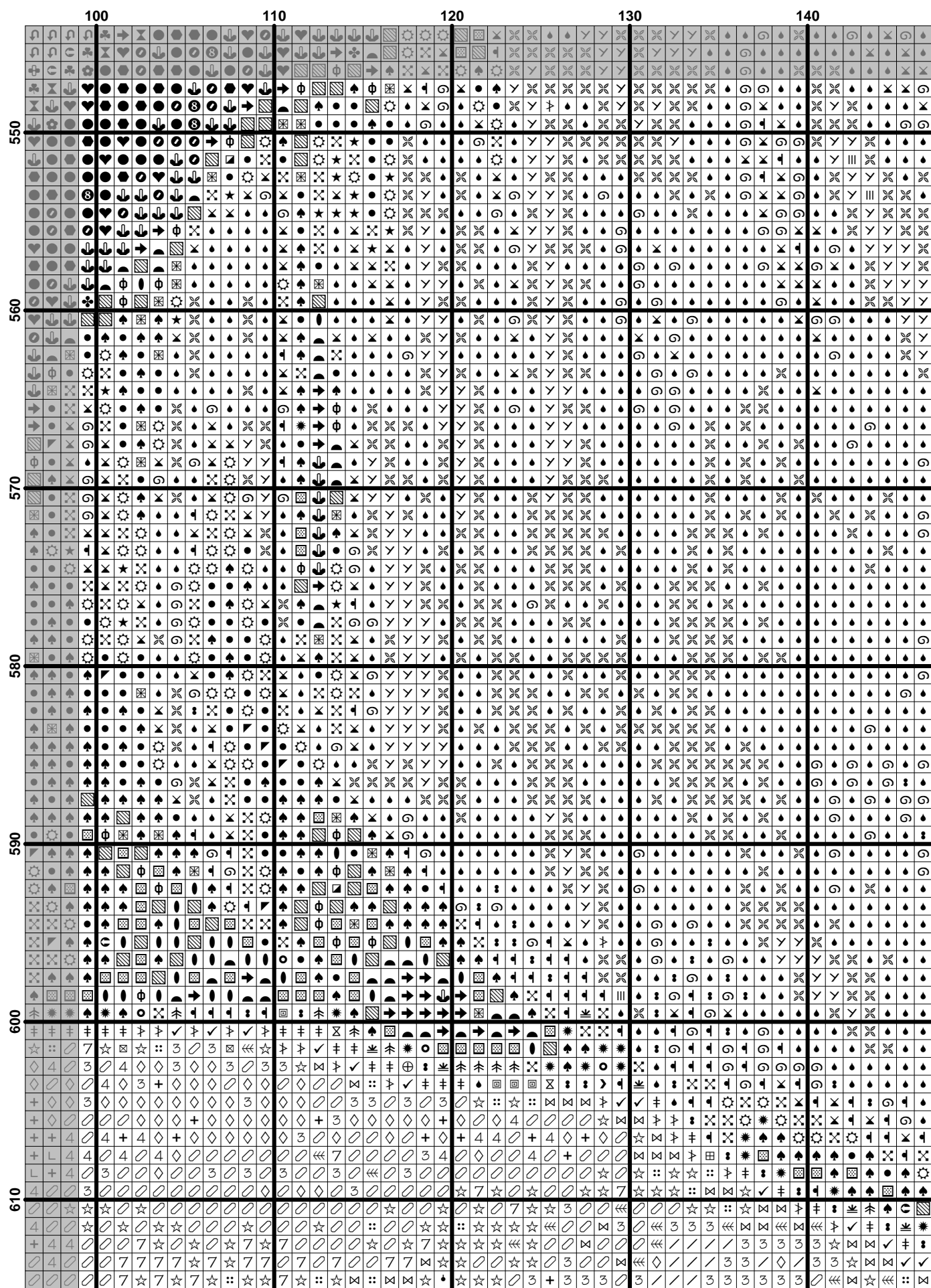


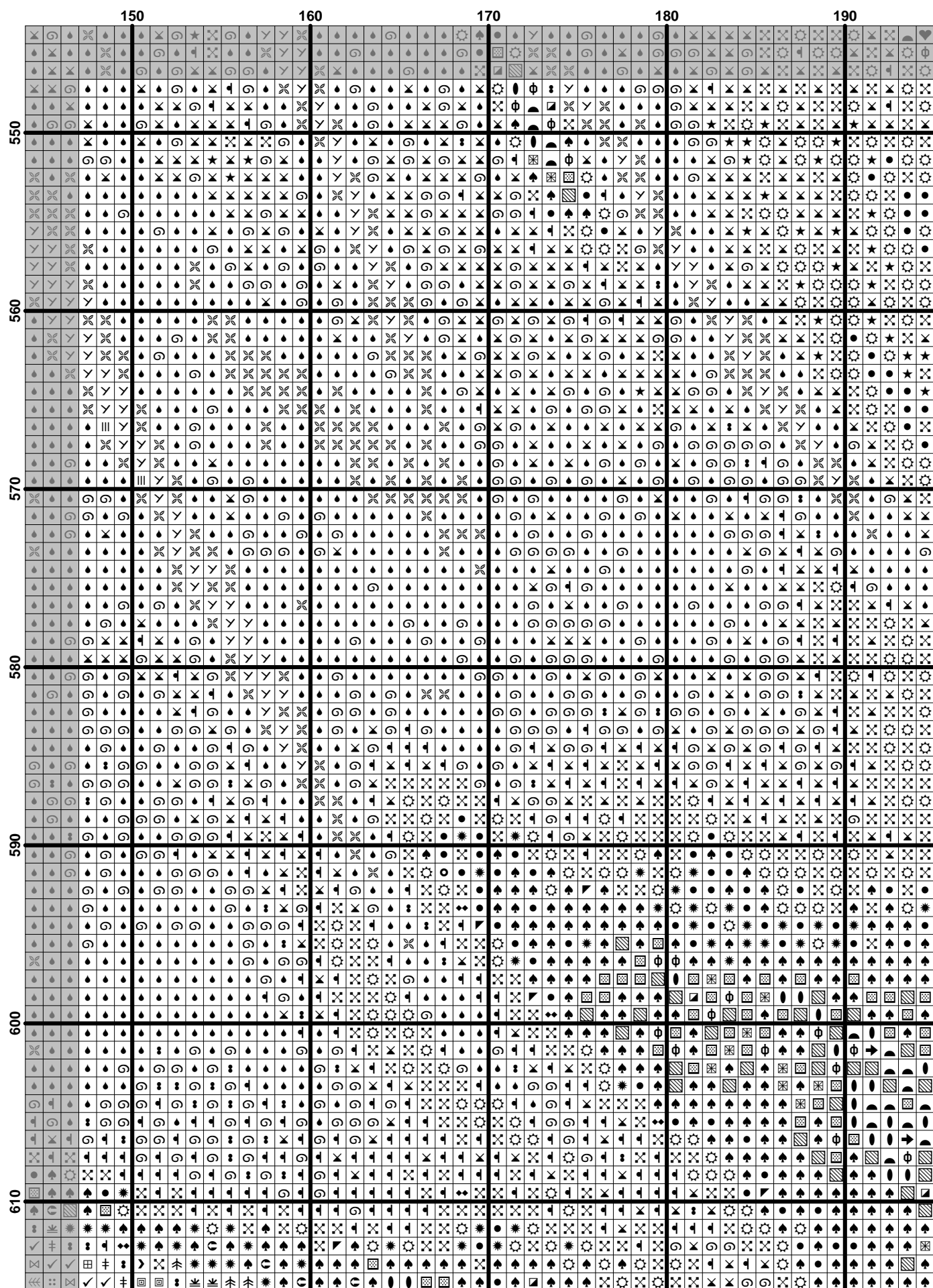


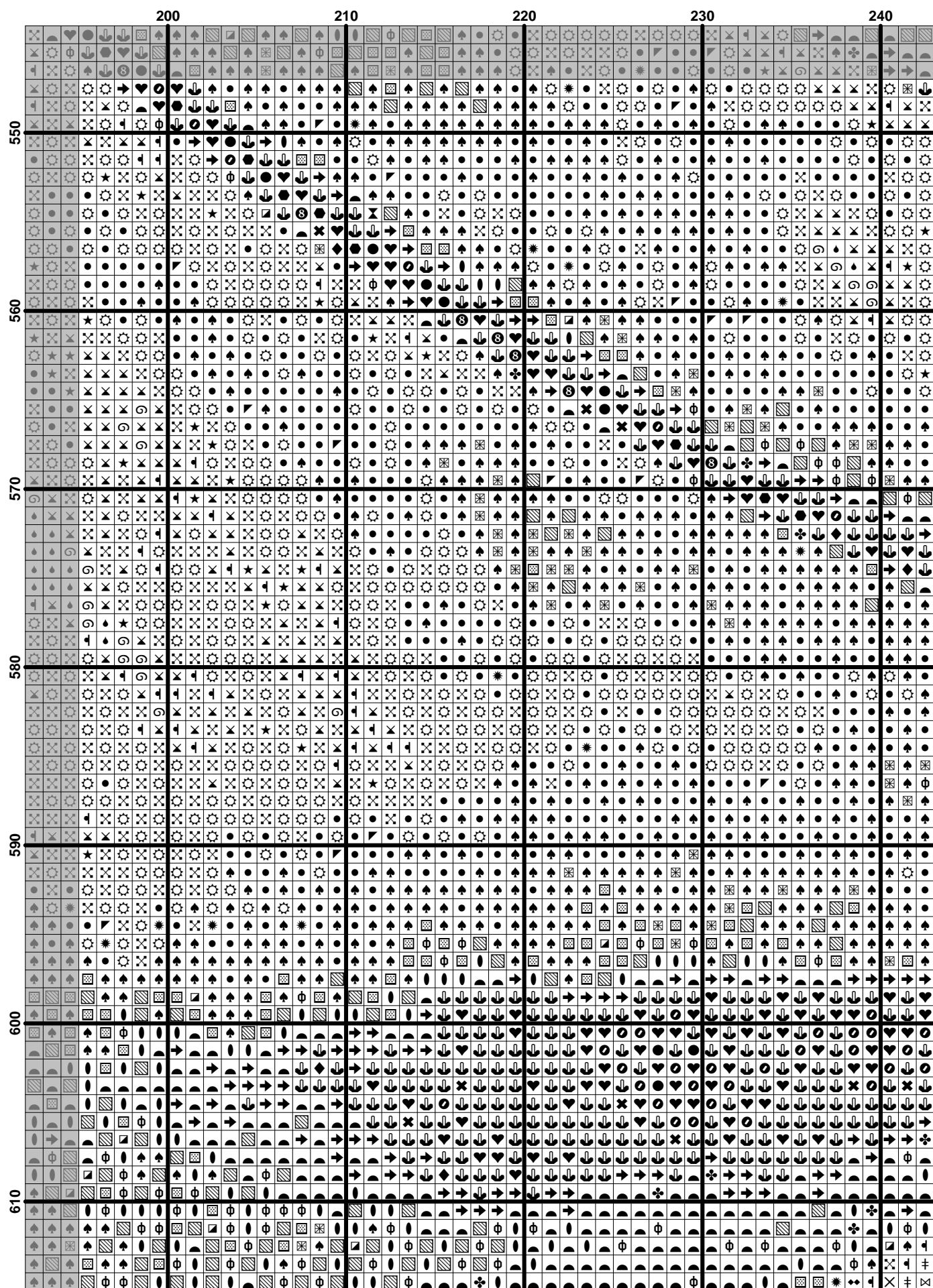


	10	20	30	40	50
550					
560					
570					
580					
590					
600					
610					

	50	60	70	80	90
550					
560					
570					
580					
590					
600					
610					







	240	250	260	270	280	290
550						
560						
570						
580						
590						
600						
610						

(107)

(108)

(109)

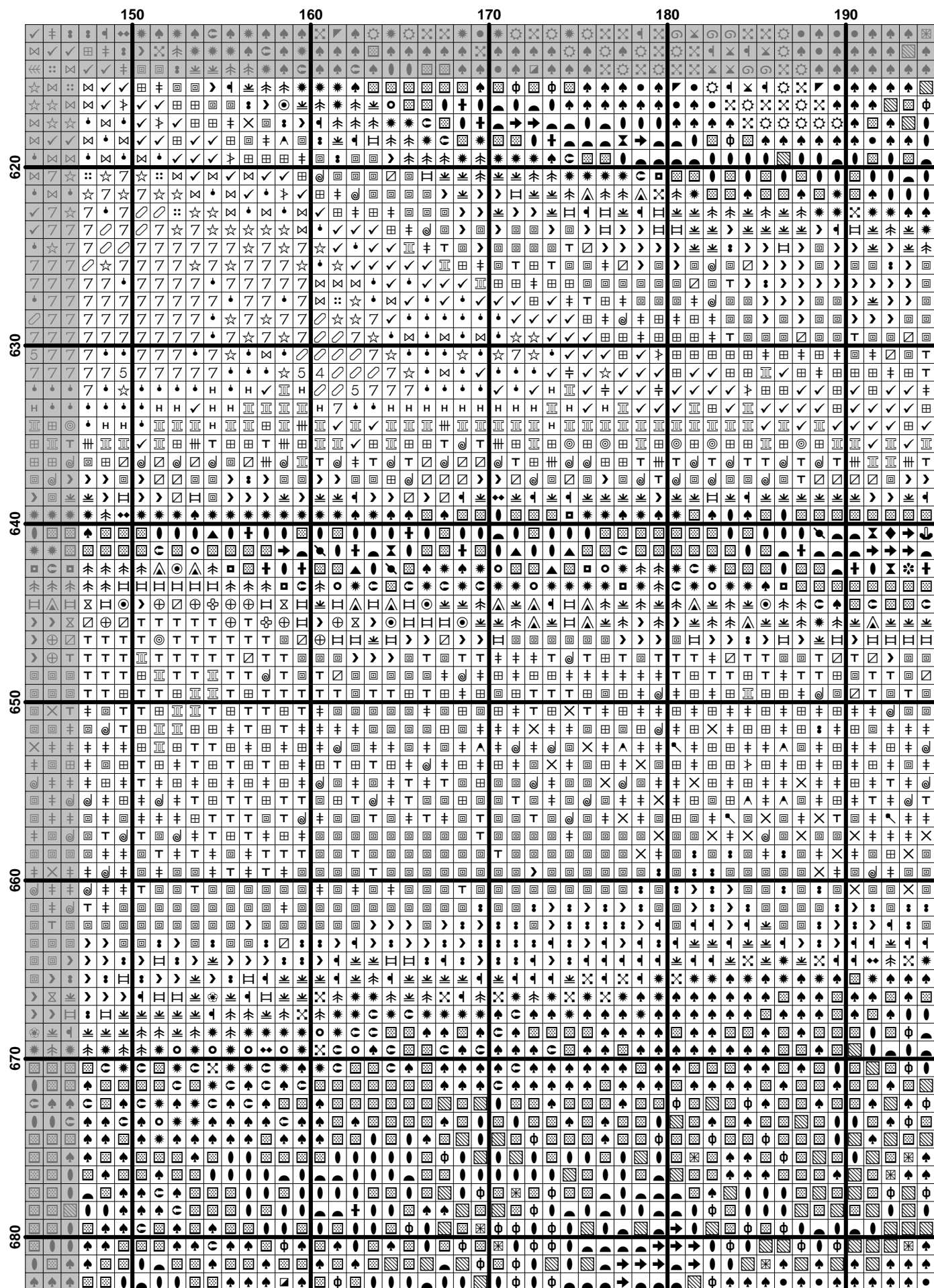
	440							450							460							470							480						
550																																			

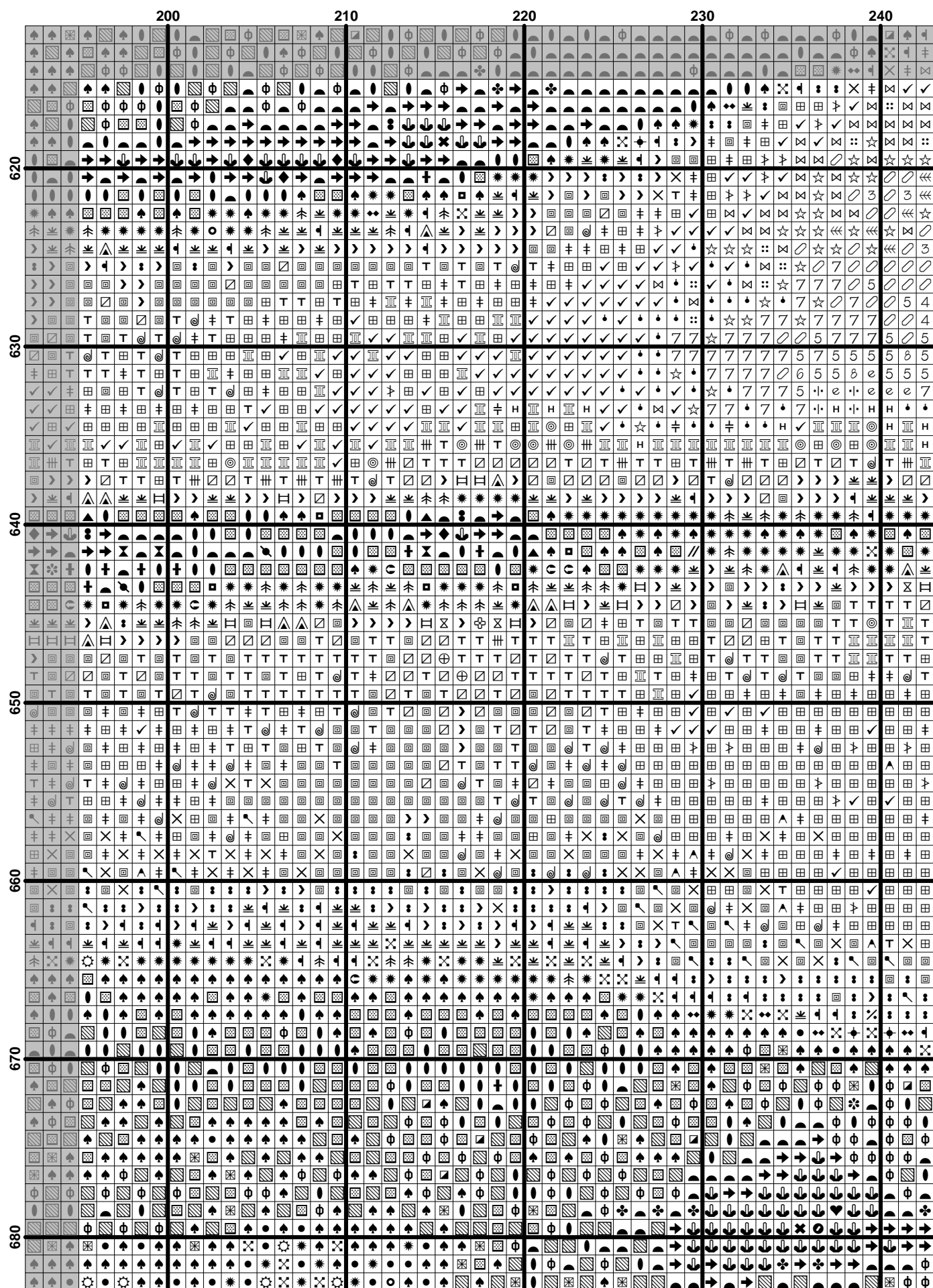
	480	490	500	510	520
550					
560					
570					
580					
590					
600					
610					

(112)

(113)

(114)





(117)

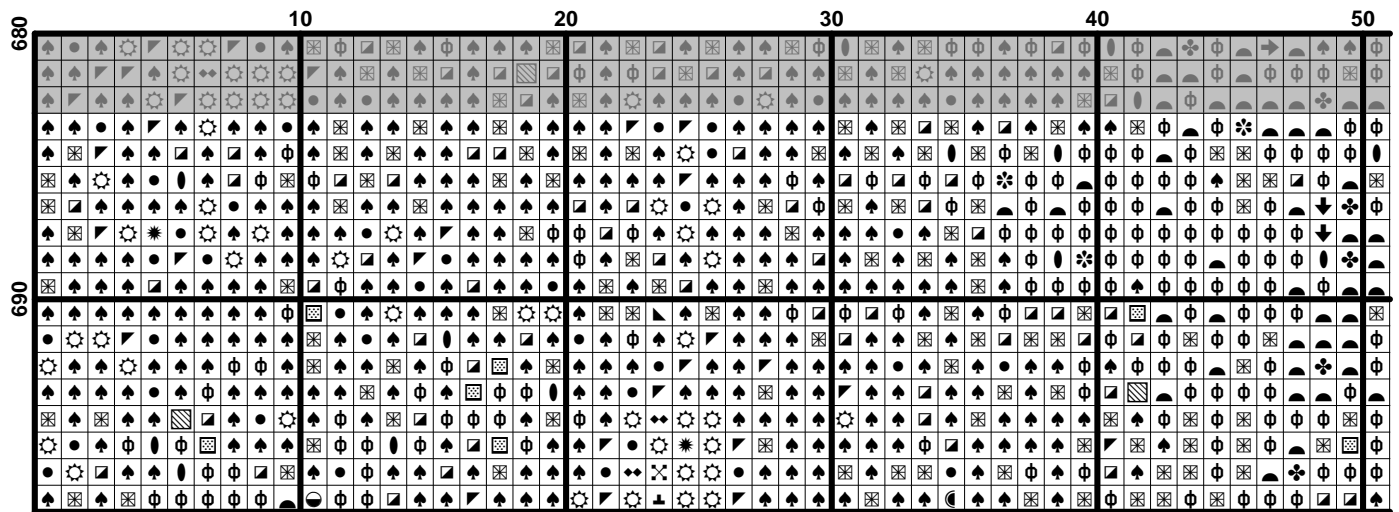
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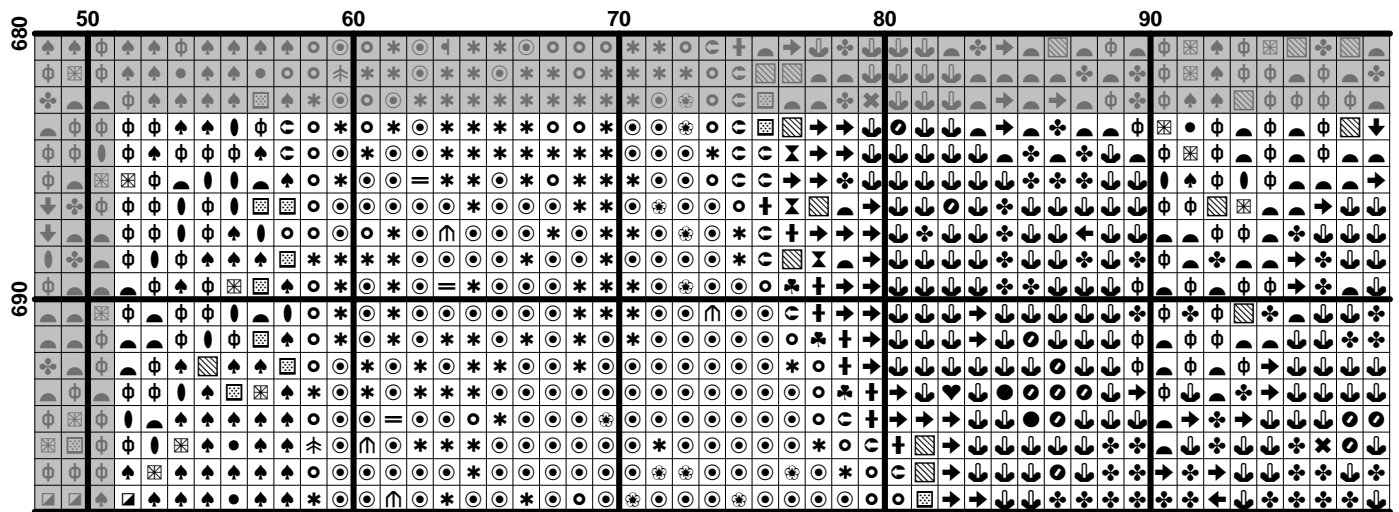
(119)

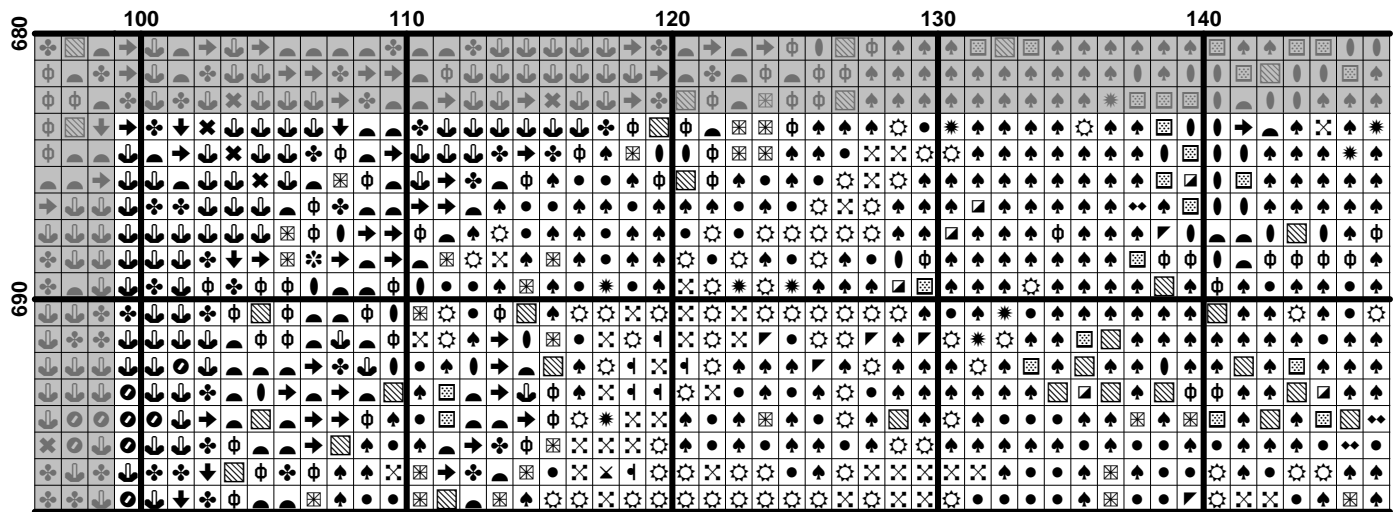
[illegible]

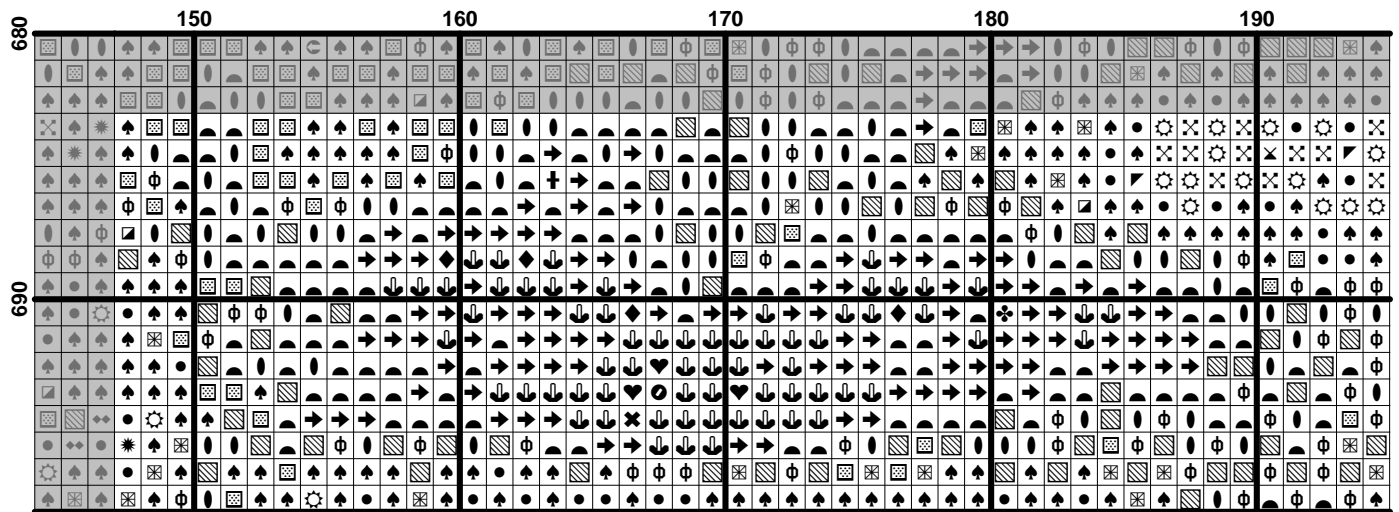
[illegible]

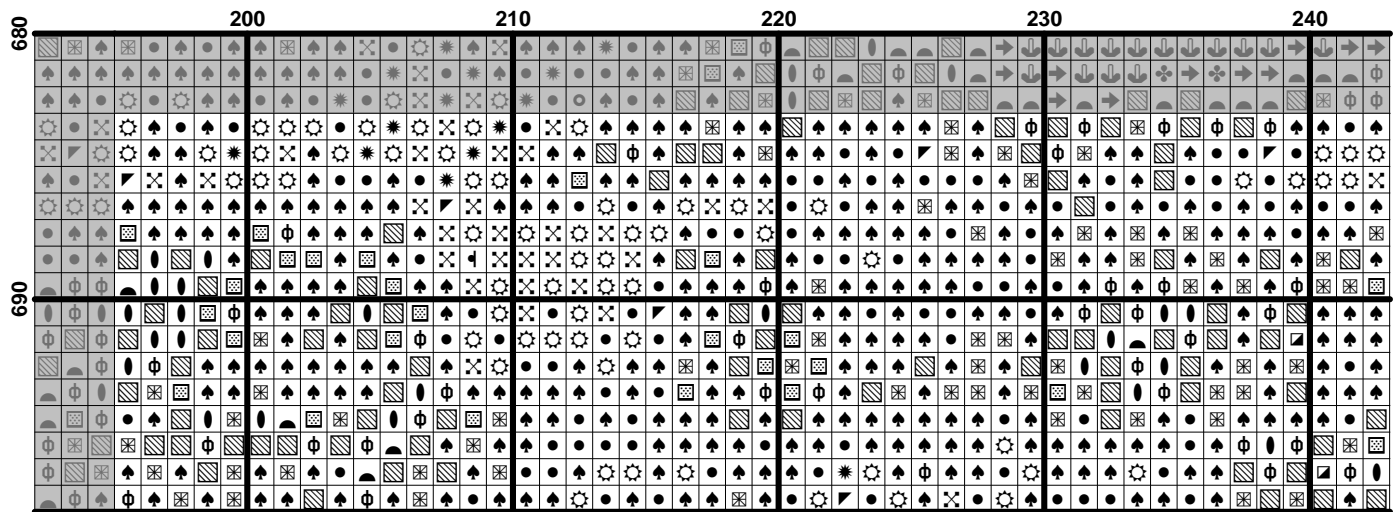
(121)

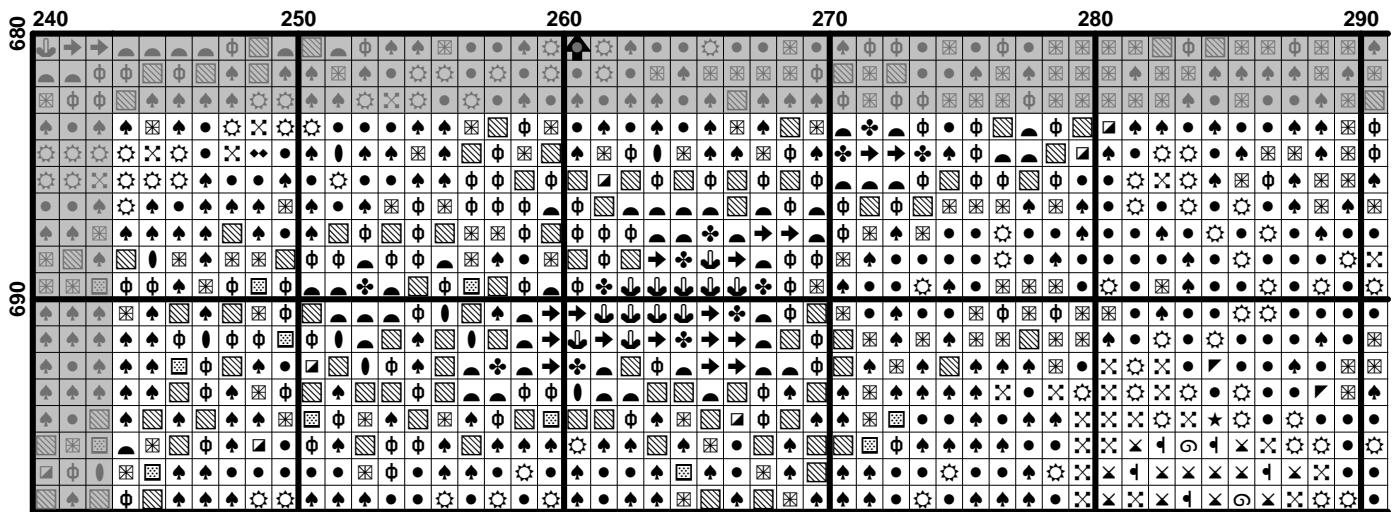


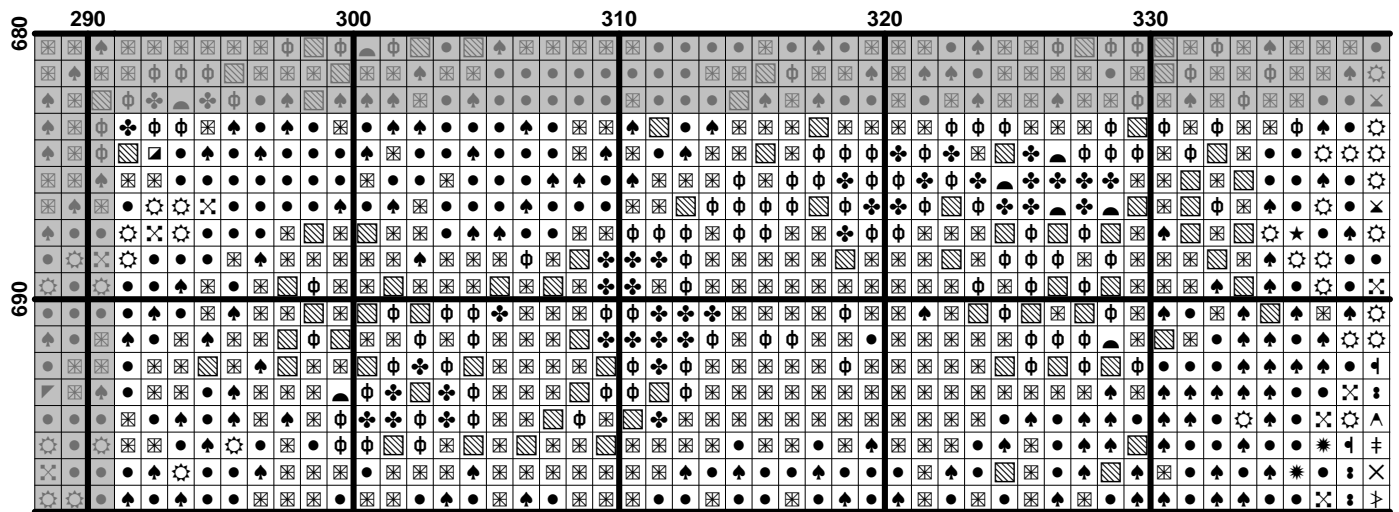




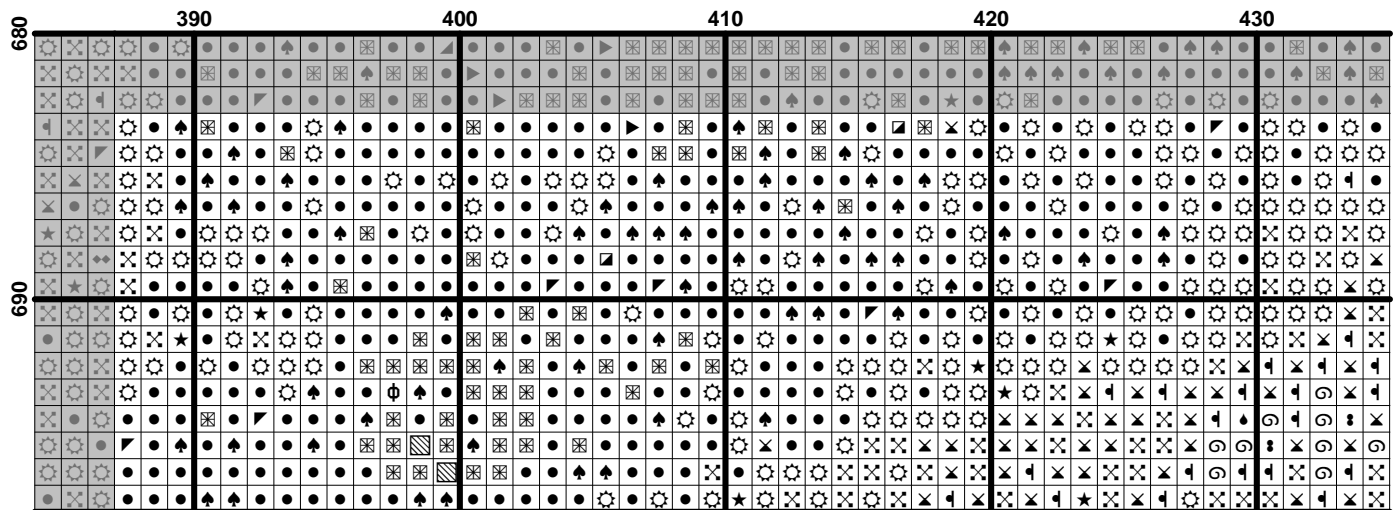








	340										350										360										370										380																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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