

1307 The Lost Supper



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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 Lost Supper

Stitch Count	
Horizontal:	400
Vertical:	503

Recommended Fabric Color
Antique White

This table tells the size of the pattern (without any margins) and the size of the fabric required to stitch the pattern (including recommended margins). 3 inch margins have been added on each side in the 'Including Margins' row.

The sizes are given for 14, 16 and 18 stitches per inch fabrics.

Make sure to use the 'Including Margins' row when cutting the piece of fabric to be used. Also make sure that 3 inch margins are enough for your stitching technique and add more margin areas if necessary.

	14				16				18			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	73	28.44	92	35.83	64	24.89	80	31.35	57	22.125	71	27.875
Including Margins:	89	35	108	42	80	31	96	38	73	29	87	34
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	102	39.81	128	50.16	85	33.18	107	41.8	42	16.59	53	20.9
Including Margins:	118	46	144	57	101	40	123	48	58	23	69	27
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	40	15.92	51	20.06	39	15.31	49	19.29	37	14.74	47	18.57
Including Margins:	56	22	67	27	55	22	65	26	53	21	63	25
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	36	14.22	46	17.91	34	13.27	42	16.72	31	12.44	40	15.67
Including Margins:	52	21	62	24	50	20	58	23	47	19	56	22

Solid Color Stitches. Use two strands of the specified color for these stitches.

Symbol	DMC	Name
♣	221	Shell Pink-VY DK
➤	223	Shell Pink-LT
✂	224	Shell Pink-VY LT
∞	225	Shell Pink-UL VY LT
▀	301	Mahogany-MD
■	310	Black
⊕	315	Antique Mauve-VY DK
⊕	316	Antique Mauve-MD
▨	355	Terra Cotta-DK
⊕	356	Terra Cotta-MD
z	370	Mustard-MD
⊙	407	Desert Sand-DK
▲	420	Hazelnut Brown-DK
✚	434	Brown-LT
⊕	435	Brown-VY LT
Ⓢ	436	Tan
○	437	Tan-LT
⊕	451	Shell Gray-DK
✚	452	Shell Gray-MD
⊕	453	Shell Gray-LT
◀	552	Violet-MD
♠	632	Desert Sand-UL VY DK
4	676	Old Gold-LT
⊕	677	Old Gold-VY LT
· ·	738	Tan-VY LT
+	754	Peach-LT
↑	758	Terra Cotta-VY LT
::	778	Antique Mauve-VY LT
1	819	Baby Pink-LT
☯	838	Beige Brown-VY DK
☯	839	Beige Brown-DK
⚡	840	Beige Brown-MD
✂	841	Beige Brown-LT
?	842	Beige Brown-VY LT
↓	902	Garnet-VY DK
◆	921	Copper
☼	938	Coffee Brown-UL DK
Ⓟ	945	Tawny
^	948	Peach-VY LT
e	950	Desert Sand-LT
□	951	Tawny-LT

<	963	Dusty Rose-UL VY LT
●	975	Golden Brown-DK
#	977	Golden Brown-LT
♣	3021	Brown Gray-VY DK
◆	3031	Mocha Brown-VY DK
⬇	3041	Antique Violet-MD
↪	3042	Antique Violet-LT
≡	3064	Desert Sand
—	3354	Dusty Rose-LT
■	3371	Black Brown
/	3689	Mauve-LT
L	3713	Salmon-VY LT
Ⓟ	3721	Shell Pink-DK
Ⓟ	3722	Shell Pink-MD
▲	3726	Antique Mauve-DK
∇	3727	Antique Mauve-LT
▣	3740	Antique Violet-DK
5	3743	Antique Violet-VY LT
«	3770	Tawny-VY LT
✂	3772	Desert Sand-VY DK
=	3774	Desert Sand-VY LT
▣	3776	Mahogany-LT
▲	3778	Terra Cotta-LT
Ⓢ	3779	Terra Cotta-UL VY LT
●	3802	Antique Mauve-VY DK
n	3823	Yellow-UL Pale
H	3825	Pumpkin-Pale
S	3827	Golden Brown-Pale
⊕	3830	Terra Cotta-MD
↘	3834	Grape-DK
⊕	3854	Autumn Gold-MD
○	3855	Autumn Gold-LT
◇	3856	Mahogany-UL VY LT
➔	3857	Rosewood-DK
▣	3858	Rosewood-MD
↘	3859	Rosewood-LT
✱	3860	Cocoa
⌘	3861	Cocoa-LT
⬆	3863	Mocha Beige-MD
⬆	3864	Mocha Beige-LT
u	3865	Winter White
	3866	Mocha Brown-UL VY LT

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

Symbol	DMC1	Name1	DMC2	Name2
*	975	Golden Brown-DK	3772	Desert Sand-VY DK
☉	632	Desert Sand-UL VY DK	839	Beige Brown-DK
\$	356	Terra Cotta-MD	436	Tan
♦	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
L	223	Shell Pink-LT	3726	Antique Mauve-DK
←	838	Beige Brown-VY DK	3802	Antique Mauve-VY DK
=	3721	Shell Pink-DK	3830	Terra Cotta-MD
☐	738	Tan-VY LT	3856	Mahogany-UL VY LT
☙	435	Brown-VY LT	436	Tan
☾	3721	Shell Pink-DK	3860	Cocoa
●	938	Coffee Brown-UL DK	3371	Black Brown
◉	301	Mahogany-MD	435	Brown-VY LT
†	3857	Rosewood-DK	3858	Rosewood-MD
✱	3721	Shell Pink-DK	3772	Desert Sand-VY DK
*	356	Terra Cotta-MD	435	Brown-VY LT
∅	921	Copper	3776	Mahogany-LT
⊕	841	Beige Brown-LT	3772	Desert Sand-VY DK
☛	902	Garnet-VY DK	938	Coffee Brown-UL DK
☛	356	Terra Cotta-MD	3772	Desert Sand-VY DK
♦	3772	Desert Sand-VY DK	3860	Cocoa
▣	315	Antique Mauve-VY DK	3862	Mocha Beige-DK
☛	223	Shell Pink-LT	3772	Desert Sand-VY DK
★	3726	Antique Mauve-DK	3772	Desert Sand-VY DK
×	223	Shell Pink-LT	841	Beige Brown-LT
↘	3859	Rosewood-LT	3864	Mocha Beige-LT
T	841	Beige Brown-LT	3859	Rosewood-LT
III	3733	Dusty Rose	3864	Mocha Beige-LT
✓	758	Terra Cotta-VY LT	3864	Mocha Beige-LT
III	407	Desert Sand-DK	758	Terra Cotta-VY LT
☉	632	Desert Sand-UL VY DK	3858	Rosewood-MD
☉	223	Shell Pink-LT	407	Desert Sand-DK
☉	223	Shell Pink-LT	3064	Desert Sand
☉	370	Mustard-MD	3064	Desert Sand
▼	315	Antique Mauve-VY DK	3802	Antique Mauve-VY DK
✱	632	Desert Sand-UL VY DK	3802	Antique Mauve-VY DK
♥	938	Coffee Brown-UL DK	3031	Mocha Brown-VY DK
○	902	Garnet-VY DK	550	Violet-VY DK
☛	839	Beige Brown-DK	902	Garnet-VY DK
✱	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
✱	550	Violet-VY DK	3021	Brown Gray-VY DK
⑧	550	Violet-VY DK	938	Coffee Brown-UL DK
∅	963	Dusty Rose-UL VY LT	3743	Antique Violet-VY LT
•	225	Shell Pink-UL VY LT	3713	Salmon-VY LT
△	453	Shell Gray-LT	963	Dusty Rose-UL VY LT
⚡	225	Shell Pink-UL VY LT	453	Shell Gray-LT
☛	778	Antique Mauve-VY LT	453	Shell Gray-LT
~	225	Shell Pink-UL VY LT	3770	Tawny-VY LT
♦	841	Beige Brown-LT	950	Desert Sand-LT
II	453	Shell Gray-LT	3727	Antique Mauve-LT
6	453	Shell Gray-LT	3713	Salmon-VY LT
7	224	Shell Pink-VY LT	3779	Terra Cotta-UL VY LT
m	950	Desert Sand-LT	3727	Antique Mauve-LT
♡	822	Beige Gray-LT	3866	Mocha Brown-UL VY LT

9	842	Beige Brown-VY LT	3774	Desert Sand-VY LT
6	225	Shell Pink-UL VY LT	819	Baby Pink-LT
2	452	Shell Gray-MD	453	Shell Gray-LT
3	352	Coral-LT	3778	Terra Cotta-LT
4	352	Coral-LT	951	Tawny-LT
5	352	Coral-LT	3856	Mahogany-UL VY LT
3	754	Peach-LT	352	Coral-LT
6	352	Coral-LT	758	Terra Cotta-VY LT
o	3726	Antique Mauve-DK	315	Antique Mauve-VY DK
↓	3021	Brown Gray-VY DK	3834	Grape-DK
+	844	Beaver Brown-UL DK	3740	Antique Violet-DK
▲	3834	Grape-DK	3740	Antique Violet-DK
4	738	Tan-VY LT	758	Terra Cotta-VY LT
x	3726	Antique Mauve-DK	841	Beige Brown-LT
x	3041	Antique Violet-MD	3726	Antique Mauve-DK
o	225	Shell Pink-UL VY LT	948	Peach-VY LT
■	902	Garnet-VY DK	3802	Antique Mauve-VY DK
%	223	Shell Pink-LT	3861	Cocoa-LT
//	3740	Antique Violet-DK	3861	Cocoa-LT
●	902	Garnet-VY DK	3834	Grape-DK
:	3743	Antique Violet-VY LT	225	Shell Pink-UL VY LT
☆	647	Beaver Gray-MD	963	Dusty Rose-UL VY LT
≡	3822	Straw-LT	3854	Autumn Gold-MD
⌘	3726	Antique Mauve-DK	3860	Cocoa
田	316	Antique Mauve-MD	452	Shell Gray-MD
●	902	Garnet-VY DK	3371	Black Brown
+	975	Golden Brown-DK	3721	Shell Pink-DK
⊗	3721	Shell Pink-DK	3858	Rosewood-MD
↑	838	Beige Brown-VY DK	902	Garnet-VY DK
◀	3328	Salmon-DK	3776	Mahogany-LT
◐	3328	Salmon-DK	3340	Apricot-MD
田	3328	Salmon-DK	921	Copper
田	921	Copper	3340	Apricot-MD
⊗	356	Terra Cotta-MD	3328	Salmon-DK
⋮	436	Tan	3830	Terra Cotta-MD
x	3776	Mahogany-LT	3856	Mahogany-UL VY LT
(963	Dusty Rose-UL VY LT	225	Shell Pink-UL VY LT
▷	963	Dusty Rose-UL VY LT	3713	Salmon-VY LT
α	3354	Dusty Rose-LT	3713	Salmon-VY LT
▶	301	Mahogany-MD	975	Golden Brown-DK
❖	301	Mahogany-MD	3772	Desert Sand-VY DK
▲	301	Mahogany-MD	3830	Terra Cotta-MD
●	301	Mahogany-MD	3721	Shell Pink-DK
⌘	301	Mahogany-MD	356	Terra Cotta-MD
⊕	453	Shell Gray-LT	948	Peach-VY LT
☾	3722	Shell Pink-MD	3830	Terra Cotta-MD
4	436	Tan	3722	Shell Pink-MD
☾	3776	Mahogany-LT	3853	Autumn Gold-DK
)	3713	Salmon-VY LT	948	Peach-VY 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	20	7	19	7	17	6
223	Shell Pink-LT	1001	394	953	375	858	337
224	Shell Pink-VY LT	233	91	222	87	199	78
225	Shell Pink-UL VY LT	1131	445	1078	424	970	381
301	Mahogany-MD	2008	790	1912	752	1721	677
310	Black	3313	1304	3155	1242	2840	1118
315	Antique Mauve-VY DK	1183	465	1126	443	1014	399
316	Antique Mauve-MD	199	78	189	74	170	66
352	Coral-LT	41	16	39	15	35	13
355	Terra Cotta-DK	14	5	14	5	12	4
356	Terra Cotta-MD	2014	792	1918	755	1726	679
370	Mustard-MD	40	15	38	14	35	13
407	Desert Sand-DK	714	281	680	267	612	240
420	Hazelnut Brown-DK	3	1	3	1	3	1
434	Brown-LT	5	1	5	1	4	1
435	Brown-VY LT	788	310	750	295	675	265
436	Tan	386	151	368	144	331	130
437	Tan-LT	55	21	52	20	47	18
451	Shell Gray-DK	52	20	49	19	44	17
452	Shell Gray-MD	335	131	319	125	287	112
453	Shell Gray-LT	525	206	500	196	450	177
550	Violet-VY DK	1435	564	1366	537	1230	484
552	Violet-MD	5	1	5	1	4	1
632	Desert Sand-UL VY DK	801	315	763	300	687	270
647	Beaver Gray-MD	18	7	17	6	15	5
676	Old Gold-LT	8	3	8	3	7	2
677	Old Gold-VY LT	2	1	2	1	2	1
738	Tan-VY LT	120	47	114	44	103	40
754	Peach-LT	98	38	93	36	84	33
758	Terra Cotta-VY LT	651	256	620	244	558	219
778	Antique Mauve-VY LT	141	55	134	52	121	47
819	Baby Pink-LT	1015	399	966	380	870	342
822	Beige Gray-LT	13	5	13	5	11	4
838	Beige Brown-VY DK	1867	735	1778	700	1600	629
839	Beige Brown-DK	691	272	658	259	592	233
840	Beige Brown-MD	12	4	11	4	10	3
841	Beige Brown-LT	507	199	482	189	434	170
842	Beige Brown-VY LT	76	29	72	28	65	25
844	Beaver Brown-UL DK	92	36	88	34	79	31
902	Garnet-VY DK	3142	1237	2992	1177	2693	1060
921	Copper	73	28	69	27	62	24
938	Coffee Brown-UL DK	4757	1872	4531	1783	4077	1605
945	Tawny	39	15	37	14	34	13
948	Peach-VY LT	199	78	189	74	170	66
950	Desert Sand-LT	255	100	243	95	219	86
951	Tawny-LT	53	20	51	20	45	17
963	Dusty Rose-UL VY LT	173	68	164	64	148	58
975	Golden Brown-DK	380	149	362	142	326	128
977	Golden Brown-LT	9	3	9	3	8	3
3021	Brown Gray-VY DK	529	208	504	198	453	178
3031	Mocha Brown-VY DK	349	137	332	130	299	117
3041	Antique Violet-MD	97	38	92	36	83	32
3042	Antique Violet-LT	25	9	24	9	22	8

3064	Desert Sand	494	194	470	185	423	166
3328	Salmon-DK	78	30	74	29	67	26
3340	Apricot-MD	36	14	35	13	31	12
3354	Dusty Rose-LT	46	18	44	17	39	15
3371	Black Brown	11106	4372	10577	4164	9519	3747
3689	Mauve-LT	12	4	12	4	10	3
3713	Salmon-VY LT	380	149	361	142	325	127
3721	Shell Pink-DK	1083	426	1031	405	928	365
3722	Shell Pink-MD	215	84	205	80	184	72
3726	Antique Mauve-DK	1212	477	1154	454	1038	408
3727	Antique Mauve-LT	259	101	246	96	222	87
3733	Dusty Rose	155	61	147	57	133	52
3740	Antique Violet-DK	379	149	361	142	325	127
3743	Antique Violet-VY LT	124	48	118	46	107	42
3770	Tawny-VY LT	198	77	189	74	170	66
3772	Desert Sand-VY DK	2620	1031	2495	982	2246	884
3774	Desert Sand-VY LT	92	36	87	34	78	30
3776	Mahogany-LT	66	25	62	24	56	22
3778	Terra Cotta-LT	51	20	48	18	43	16
3779	Terra Cotta-UL VY LT	127	50	121	47	109	42
3802	Antique Mauve-VY DK	1635	643	1557	612	1401	551
3822	Straw-LT	4	1	4	1	3	1
3823	Yellow-UL Pale	2	1	2	1	2	1
3825	Pumpkin-Pale	4	1	4	1	4	1
3827	Golden Brown-Pale	8	3	8	3	7	2
3830	Terra Cotta-MD	516	203	492	193	443	174
3834	Grape-DK	515	202	491	193	442	174
3853	Autumn Gold-DK	4	1	4	1	3	1
3854	Autumn Gold-MD	8	3	7	2	7	2
3855	Autumn Gold-LT	9	3	8	3	7	2
3856	Mahogany-UL VY LT	39	15	37	14	34	13
3857	Rosewood-DK	282	111	269	105	242	95
3858	Rosewood-MD	687	270	654	257	589	231
3859	Rosewood-LT	406	159	386	151	348	137
3860	Cocoa	730	287	695	273	625	246
3861	Cocoa-LT	441	173	420	165	378	148
3862	Mocha Beige-DK	312	122	297	116	267	105
3863	Mocha Beige-MD	19	7	18	7	16	6
3864	Mocha Beige-LT	602	237	573	225	516	203
3865	Winter White	7	2	6	2	6	2
3866	Mocha Brown-UL VY LT	85	33	81	31	73	28

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	31	11	26	9	13	5
223	Shell Pink-LT	1544	607	1287	506	644	253
224	Shell Pink-VY LT	358	140	299	117	149	59
225	Shell Pink-UL VY LT	1746	686	1455	572	728	286
301	Mahogany-MD	3098	1219	2582	1016	1291	508
310	Black	5112	2012	4260	1677	2130	839
315	Antique Mauve-VY DK	1825	718	1521	599	761	299
316	Antique Mauve-MD	306	119	255	99	128	50
352	Coral-LT	63	23	53	20	26	10
355	Terra Cotta-DK	22	7	18	6	9	3
356	Terra Cotta-MD	3107	1222	2589	1019	1295	509

370	Mustard-MD	63	23	53	20	26	10
407	Desert Sand-DK	1102	432	918	360	459	180
420	Hazelnut Brown-DK	5	2	5	2	2	1
434	Brown-LT	7	2	6	2	3	1
435	Brown-VY LT	1215	477	1013	398	506	199
436	Tan	596	234	497	195	248	98
437	Tan-LT	85	32	71	27	35	14
451	Shell Gray-DK	79	31	66	26	33	13
452	Shell Gray-MD	517	202	431	168	215	84
453	Shell Gray-LT	810	319	675	266	338	133
550	Violet-VY DK	2214	871	1845	726	923	363
552	Violet-MD	7	2	6	2	3	1
632	Desert Sand-UL VY DK	1237	486	1031	405	515	203
647	Beaver Gray-MD	27	9	23	8	11	4
676	Old Gold-LT	13	4	11	3	5	2
677	Old Gold-VY LT	4	2	3	2	2	1
738	Tan-VY LT	185	72	155	60	77	30
754	Peach-LT	151	59	126	50	63	25
758	Terra Cotta-VY LT	1004	394	837	329	419	164
778	Antique Mauve-VY LT	218	85	182	71	91	35
819	Baby Pink-LT	1566	616	1305	513	653	257
822	Beige Gray-LT	20	7	17	6	8	3
838	Beige Brown-VY DK	2880	1132	2400	944	1200	472
839	Beige Brown-DK	1066	419	888	350	444	175
840	Beige Brown-MD	18	5	15	5	8	2
841	Beige Brown-LT	781	306	651	255	326	128
842	Beige Brown-VY LT	117	45	98	38	49	19
844	Beaver Brown-UL DK	142	56	119	47	59	23
902	Garnet-VY DK	4847	1908	4040	1590	2020	795
921	Copper	112	43	93	36	47	18
938	Coffee Brown-UL DK	7339	2889	6116	2408	3058	1204
945	Tawny	61	23	51	20	26	10
948	Peach-VY LT	306	119	255	99	128	50
950	Desert Sand-LT	394	155	329	129	164	65
951	Tawny-LT	81	31	68	26	34	13
963	Dusty Rose-UL VY LT	266	104	222	87	111	44
975	Golden Brown-DK	587	230	489	192	245	96
977	Golden Brown-LT	14	5	12	5	6	2
3021	Brown Gray-VY DK	815	320	680	267	340	134
3031	Mocha Brown-VY DK	538	211	449	176	224	88
3041	Antique Violet-MD	149	58	125	48	62	24
3042	Antique Violet-LT	40	14	33	12	17	6
3064	Desert Sand	761	299	635	249	317	125
3328	Salmon-DK	121	47	101	39	50	20
3340	Apricot-MD	56	22	47	18	23	9
3354	Dusty Rose-LT	70	27	59	23	29	11
3371	Black Brown	17134	6745	14279	5621	7139	2810
3689	Mauve-LT	18	5	15	5	8	2
3713	Salmon-VY LT	585	229	488	191	244	95
3721	Shell Pink-DK	1670	657	1392	548	696	274
3722	Shell Pink-MD	331	130	276	108	138	54
3726	Antique Mauve-DK	1868	734	1557	612	779	306
3727	Antique Mauve-LT	400	157	333	131	167	65
3733	Dusty Rose	239	94	200	78	100	39
3740	Antique Violet-DK	585	229	488	191	244	95
3743	Antique Violet-VY LT	193	76	161	63	80	32
3770	Tawny-VY LT	306	119	255	99	128	50
3772	Desert Sand-VY DK	4043	1591	3369	1326	1685	663
3774	Desert Sand-VY LT	140	54	117	45	59	23

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3776	Mahogany-LT	101	40	84	33	42	17
3778	Terra Cotta-LT	77	29	65	24	32	12
3779	Terra Cotta-UL VY LT	196	76	164	63	82	32
3802	Antique Mauve-VY DK	2522	992	2102	827	1051	413
3822	Straw-LT	5	2	5	2	2	1
3823	Yellow-UL Pale	4	2	3	2	2	1
3825	Pumpkin-Pale	7	2	6	2	3	1
3827	Golden Brown-Pale	13	4	11	3	5	2
3830	Terra Cotta-MD	797	313	665	261	332	131
3834	Grape-DK	796	313	663	261	332	131
3853	Autumn Gold-DK	5	2	5	2	2	1
3854	Autumn Gold-MD	13	4	11	3	5	2
3855	Autumn Gold-LT	13	4	11	3	5	2
3856	Mahogany-UL VY LT	61	23	51	20	26	10
3857	Rosewood-DK	436	171	363	143	182	71
3858	Rosewood-MD	1060	416	884	347	442	173
3859	Rosewood-LT	626	247	522	206	261	103
3860	Cocoa	1125	443	938	369	469	185
3861	Cocoa-LT	680	266	567	222	284	111
3862	Mocha Beige-DK	481	189	401	158	200	79
3863	Mocha Beige-MD	29	11	24	9	12	5
3864	Mocha Beige-LT	929	365	774	305	387	152
3865	Winter White	11	4	9	3	5	2
3866	Mocha Brown-UL VY LT	131	50	110	42	55	21

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	12	4	12	4	11	4
223	Shell Pink-LT	618	243	594	233	572	225
224	Shell Pink-VY LT	143	56	138	54	133	52
225	Shell Pink-UL VY LT	698	274	672	264	647	254
301	Mahogany-MD	1239	487	1191	469	1147	451
310	Black	2045	805	1966	774	1893	745
315	Antique Mauve-VY DK	730	287	702	276	676	266
316	Antique Mauve-MD	122	48	118	46	113	44
352	Coral-LT	25	9	24	9	23	9
355	Terra Cotta-DK	9	3	8	3	8	3
356	Terra Cotta-MD	1243	489	1195	470	1151	453
370	Mustard-MD	25	9	24	9	23	9
407	Desert Sand-DK	441	173	424	166	408	160
420	Hazelnut Brown-DK	2	1	2	1	2	1
434	Brown-LT	3	1	3	1	3	1
435	Brown-VY LT	486	191	467	183	450	177
436	Tan	238	94	229	90	221	87
437	Tan-LT	34	13	33	12	31	12
451	Shell Gray-DK	32	12	30	12	29	11
452	Shell Gray-MD	207	81	199	78	191	75
453	Shell Gray-LT	324	127	312	123	300	118
550	Violet-VY DK	886	348	852	335	820	323
552	Violet-MD	3	1	3	1	3	1
632	Desert Sand-UL VY DK	495	194	476	187	458	180
647	Beaver Gray-MD	11	4	10	3	10	3
676	Old Gold-LT	5	1	5	1	5	1
677	Old Gold-VY LT	1	1	1	1	1	1
738	Tan-VY LT	74	29	71	28	69	27

754	Peach-LT	60	24	58	23	56	22
758	Terra Cotta-VY LT	402	158	386	152	372	146
778	Antique Mauve-VY LT	87	34	84	33	81	31
819	Baby Pink-LT	626	246	602	237	580	228
822	Beige Gray-LT	8	3	8	3	7	3
838	Beige Brown-VY DK	1152	453	1108	435	1067	419
839	Beige Brown-DK	426	168	410	161	395	155
840	Beige Brown-MD	7	2	7	2	7	2
841	Beige Brown-LT	312	122	300	118	289	113
842	Beige Brown-VY LT	47	18	45	17	43	17
844	Beaver Brown-UL DK	57	22	55	21	53	21
902	Garnet-VY DK	1939	763	1864	734	1795	707
921	Copper	45	17	43	17	41	16
938	Coffee Brown-UL DK	2935	1156	2823	1111	2718	1070
945	Tawny	24	9	24	9	23	9
948	Peach-VY LT	122	48	118	46	113	44
950	Desert Sand-LT	158	62	152	60	146	57
951	Tawny-LT	32	12	31	12	30	11
963	Dusty Rose-UL VY LT	107	42	102	40	99	39
975	Golden Brown-DK	235	92	226	89	217	85
977	Golden Brown-LT	6	2	6	2	5	2
3021	Brown Gray-VY DK	326	128	314	123	302	119
3031	Mocha Brown-VY DK	215	84	207	81	199	78
3041	Antique Violet-MD	60	23	57	22	55	21
3042	Antique Violet-LT	16	6	15	6	15	5
3064	Desert Sand	305	120	293	115	282	111
3328	Salmon-DK	48	19	46	18	45	17
3340	Apricot-MD	22	9	21	8	21	8
3354	Dusty Rose-LT	28	11	27	10	26	10
3371	Black Brown	6854	2698	6590	2594	6346	2498
3689	Mauve-LT	7	2	7	2	7	2
3713	Salmon-VY LT	234	91	225	88	217	85
3721	Shell Pink-DK	668	263	642	253	619	243
3722	Shell Pink-MD	132	52	127	50	123	48
3726	Antique Mauve-DK	747	294	719	282	692	272
3727	Antique Mauve-LT	160	63	154	60	148	58
3733	Dusty Rose	96	37	92	36	89	35
3740	Antique Violet-DK	234	91	225	88	217	85
3743	Antique Violet-VY LT	77	30	74	29	71	28
3770	Tawny-VY LT	122	48	118	46	113	44
3772	Desert Sand-VY DK	1617	636	1555	612	1497	589
3774	Desert Sand-VY LT	56	22	54	21	52	20
3776	Mahogany-LT	40	16	39	15	37	15
3778	Terra Cotta-LT	31	12	30	11	29	11
3779	Terra Cotta-UL VY LT	78	30	75	29	73	28
3802	Antique Mauve-VY DK	1009	397	970	381	934	367
3822	Straw-LT	2	1	2	1	2	1
3823	Yellow-UL Pale	1	1	1	1	1	1
3825	Pumpkin-Pale	3	1	3	1	3	1
3827	Golden Brown-Pale	5	1	5	1	5	1
3830	Terra Cotta-MD	319	125	307	120	295	116
3834	Grape-DK	318	125	306	120	295	116
3853	Autumn Gold-DK	2	1	2	1	2	1
3854	Autumn Gold-MD	5	1	5	1	5	1
3855	Autumn Gold-LT	5	1	5	1	5	1
3856	Mahogany-UL VY LT	24	9	24	9	23	9
3857	Rosewood-DK	174	68	168	66	161	63
3858	Rosewood-MD	424	166	408	160	393	154
3859	Rosewood-LT	251	99	241	95	232	91

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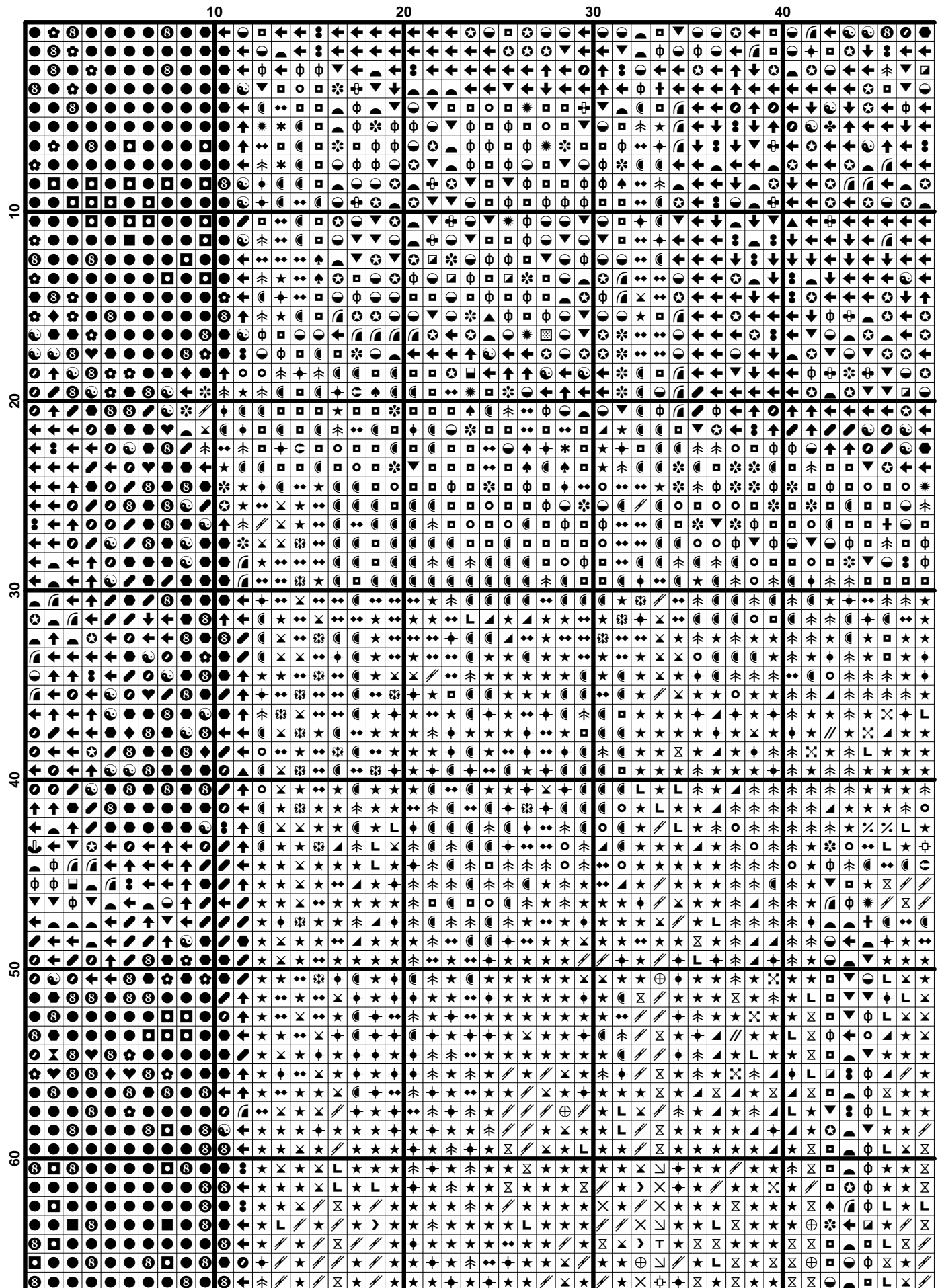
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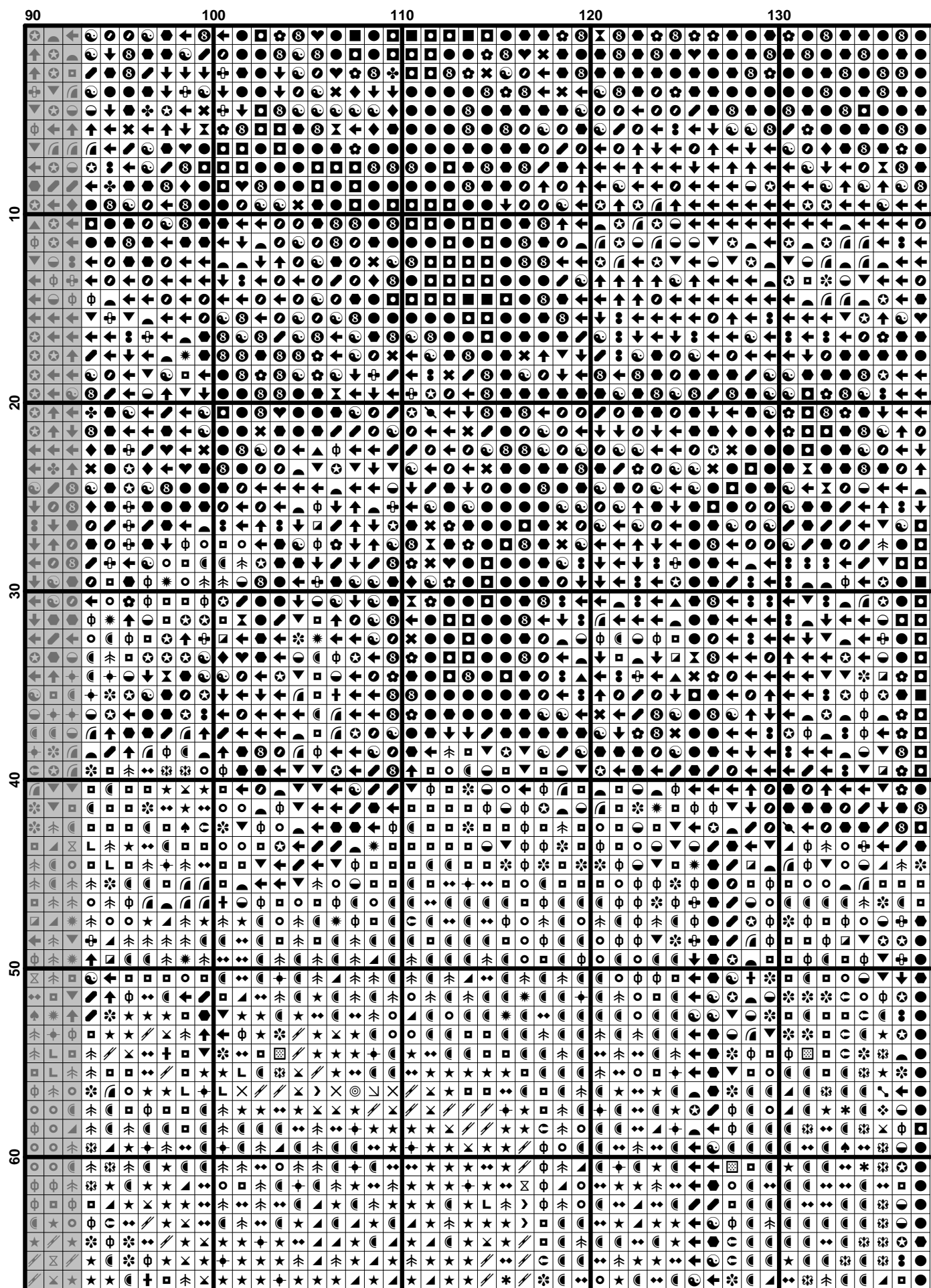
3860	Cocoa	450	177	433	170	417	164
3861	Cocoa-LT	272	107	262	102	252	99
3862	Mocha Beige-DK	192	76	185	73	178	70
3863	Mocha Beige-MD	12	4	11	4	11	4
3864	Mocha Beige-LT	372	146	357	141	344	135
3865	Winter White	4	1	4	1	4	1
3866	Mocha Brown-UL VY LT	53	20	51	19	49	19

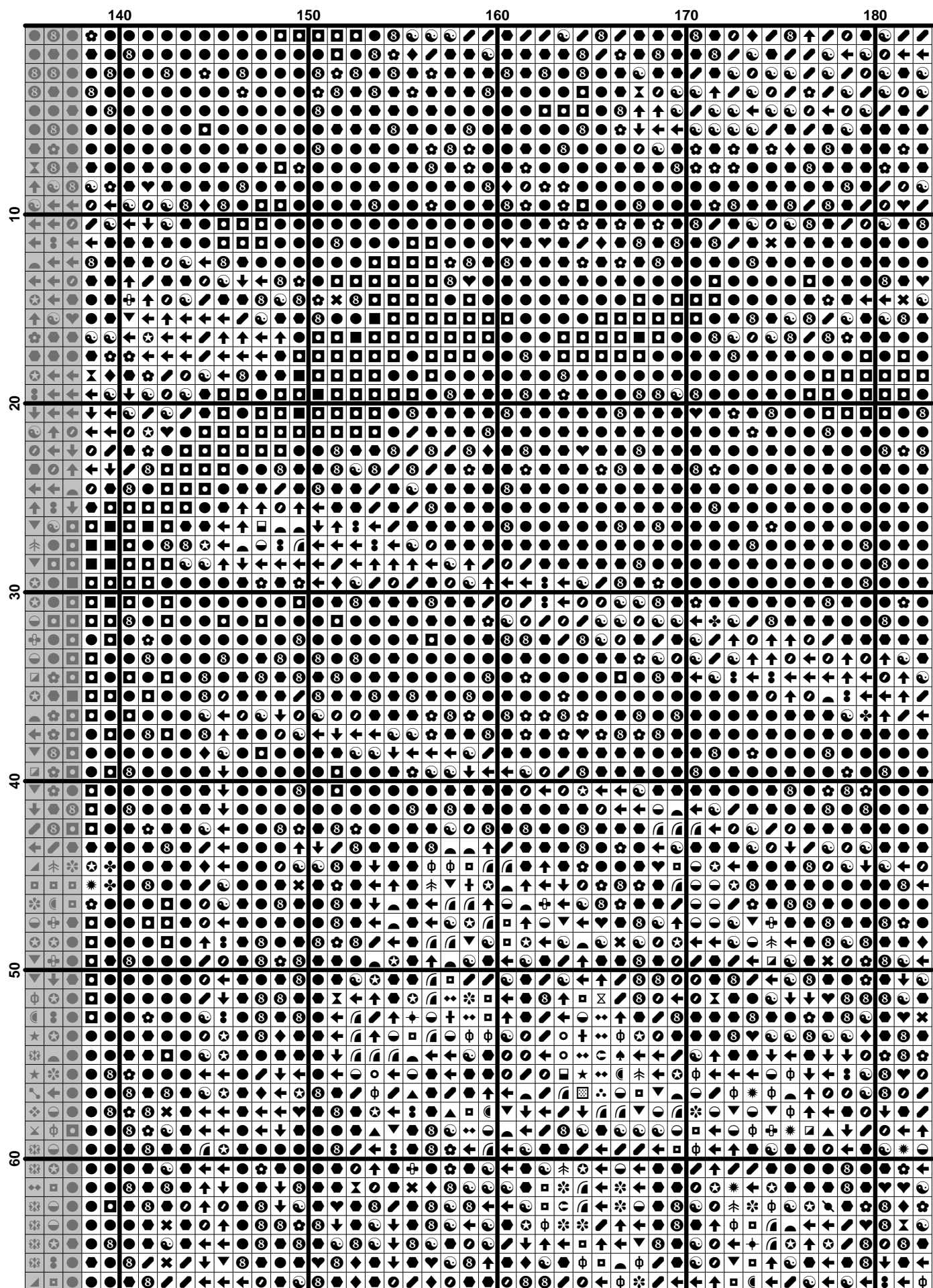
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	11	4	10	4	10	3
223	Shell Pink-LT	552	217	515	202	483	190
224	Shell Pink-VY LT	128	50	119	47	112	44
225	Shell Pink-UL VY LT	624	245	582	229	546	214
301	Mahogany-MD	1106	435	1033	406	968	381
310	Black	1826	719	1704	671	1598	629
315	Antique Mauve-VY DK	652	257	608	239	570	224
316	Antique Mauve-MD	109	42	102	40	96	37
352	Coral-LT	23	8	21	8	20	7
355	Terra Cotta-DK	8	3	7	2	7	2
356	Terra Cotta-MD	1110	437	1036	407	971	382
370	Mustard-MD	23	8	21	8	20	7
407	Desert Sand-DK	393	154	367	144	344	135
420	Hazelnut Brown-DK	2	1	2	1	2	1
434	Brown-LT	3	1	2	1	2	1
435	Brown-VY LT	434	170	405	159	380	149
436	Tan	213	84	199	78	186	73
437	Tan-LT	30	12	28	11	26	10
451	Shell Gray-DK	28	11	26	10	25	10
452	Shell Gray-MD	185	72	172	67	161	63
453	Shell Gray-LT	289	114	270	106	253	100
550	Violet-VY DK	791	311	738	290	692	272
552	Violet-MD	3	1	2	1	2	1
632	Desert Sand-UL VY DK	442	174	412	162	386	152
647	Beaver Gray-MD	10	3	9	3	8	3
676	Old Gold-LT	5	1	4	1	4	1
677	Old Gold-VY LT	1	1	1	1	1	1
738	Tan-VY LT	66	26	62	24	58	23
754	Peach-LT	54	21	50	20	47	19
758	Terra Cotta-VY LT	359	141	335	131	314	123
778	Antique Mauve-VY LT	78	30	73	28	68	26
819	Baby Pink-LT	559	220	522	205	489	192
822	Beige Gray-LT	7	3	7	2	6	2
838	Beige Brown-VY DK	1029	404	960	377	900	354
839	Beige Brown-DK	381	150	355	140	333	131
840	Beige Brown-MD	6	2	6	2	6	2
841	Beige Brown-LT	279	109	260	102	244	96
842	Beige Brown-VY LT	42	16	39	15	37	14
844	Beaver Brown-UL DK	51	20	47	19	44	17
902	Garnet-VY DK	1731	681	1616	636	1515	596
921	Copper	40	15	37	14	35	14
938	Coffee Brown-UL DK	2621	1032	2446	963	2293	903
945	Tawny	22	8	20	8	19	7
948	Peach-VY LT	109	42	102	40	96	37
950	Desert Sand-LT	141	55	131	52	123	48

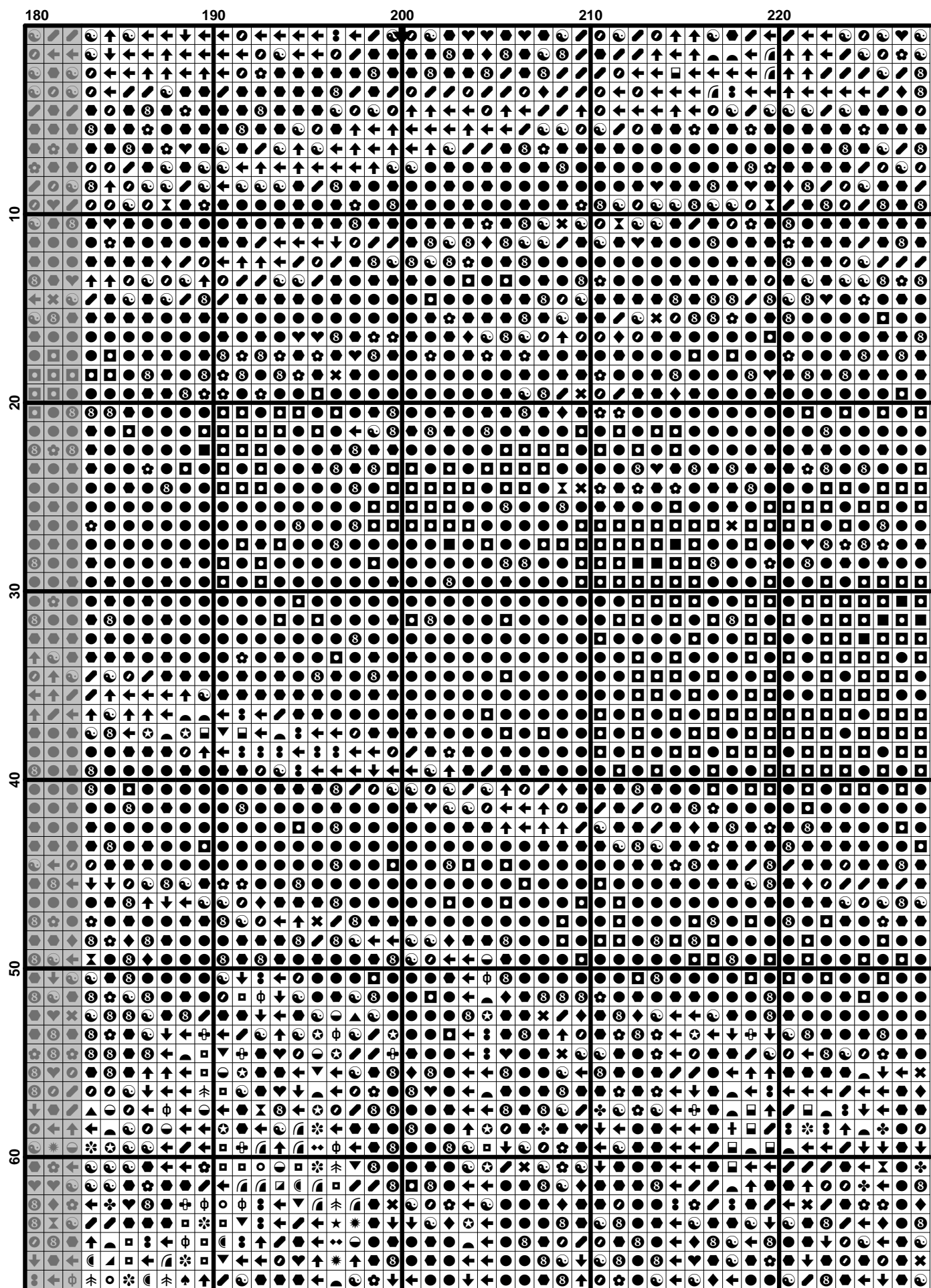
951	Tawny-LT	29	11	27	10	25	10
963	Dusty Rose-UL VY LT	95	37	89	35	83	33
975	Golden Brown-DK	210	82	196	77	183	72
977	Golden Brown-LT	5	2	5	2	5	2
3021	Brown Gray-VY DK	291	114	272	107	255	100
3031	Mocha Brown-VY DK	192	75	179	70	168	66
3041	Antique Violet-MD	53	21	50	19	47	18
3042	Antique Violet-LT	14	5	13	5	12	5
3064	Desert Sand	272	107	254	100	238	93
3328	Salmon-DK	43	17	40	16	38	15
3340	Apricot-MD	20	8	19	7	17	7
3354	Dusty Rose-LT	25	10	23	9	22	8
3371	Black Brown	6119	2409	5711	2248	5354	2108
3689	Mauve-LT	6	2	6	2	6	2
3713	Salmon-VY LT	209	82	195	76	183	71
3721	Shell Pink-DK	597	235	557	219	522	205
3722	Shell Pink-MD	118	46	110	43	104	41
3726	Antique Mauve-DK	667	262	623	245	584	230
3727	Antique Mauve-LT	143	56	133	52	125	49
3733	Dusty Rose	86	33	80	31	75	29
3740	Antique Violet-DK	209	82	195	76	183	71
3743	Antique Violet-VY LT	69	27	64	25	60	24
3770	Tawny-VY LT	109	42	102	40	96	37
3772	Desert Sand-VY DK	1444	568	1348	530	1263	497
3774	Desert Sand-VY LT	50	19	47	18	44	17
3776	Mahogany-LT	36	14	34	13	32	12
3778	Terra Cotta-LT	28	10	26	10	24	9
3779	Terra Cotta-UL VY LT	70	27	65	25	61	24
3802	Antique Mauve-VY DK	901	354	841	331	788	310
3822	Straw-LT	2	1	2	1	2	1
3823	Yellow-UL Pale	1	1	1	1	1	1
3825	Pumpkin-Pale	3	1	2	1	2	1
3827	Golden Brown-Pale	5	1	4	1	4	1
3830	Terra Cotta-MD	285	112	266	104	249	98
3834	Grape-DK	284	112	265	104	249	98
3853	Autumn Gold-DK	2	1	2	1	2	1
3854	Autumn Gold-MD	5	1	4	1	4	1
3855	Autumn Gold-LT	5	1	4	1	4	1
3856	Mahogany-UL VY LT	22	8	20	8	19	7
3857	Rosewood-DK	156	61	145	57	136	53
3858	Rosewood-MD	379	149	353	139	331	130
3859	Rosewood-LT	224	88	209	82	196	77
3860	Cocoa	402	158	375	148	352	138
3861	Cocoa-LT	243	95	227	89	213	83
3862	Mocha Beige-DK	172	68	160	63	150	59
3863	Mocha Beige-MD	10	4	10	4	9	3
3864	Mocha Beige-LT	332	131	310	122	290	114
3865	Winter White	4	1	4	1	3	1
3866	Mocha Brown-UL VY LT	47	18	44	17	41	16

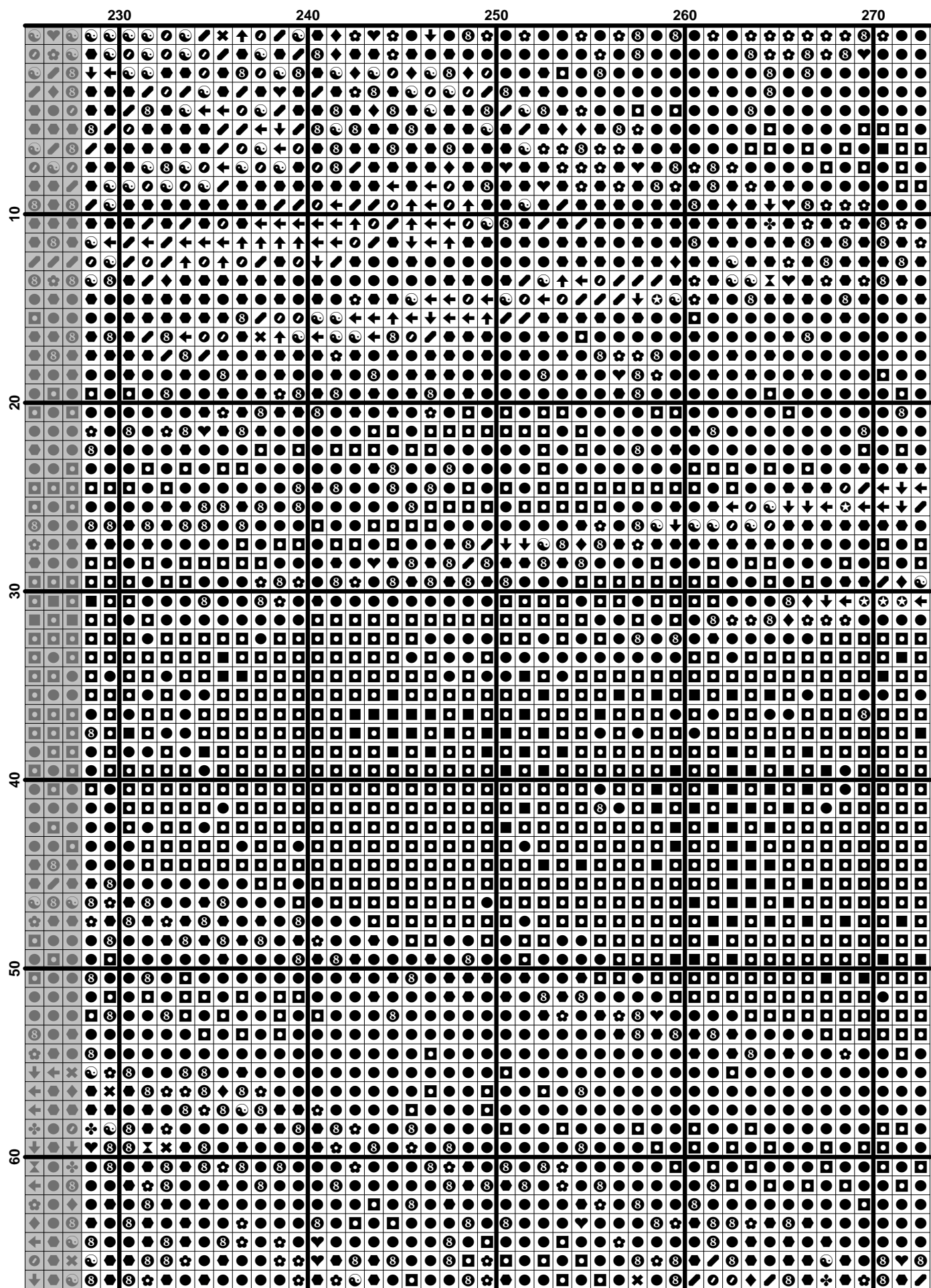


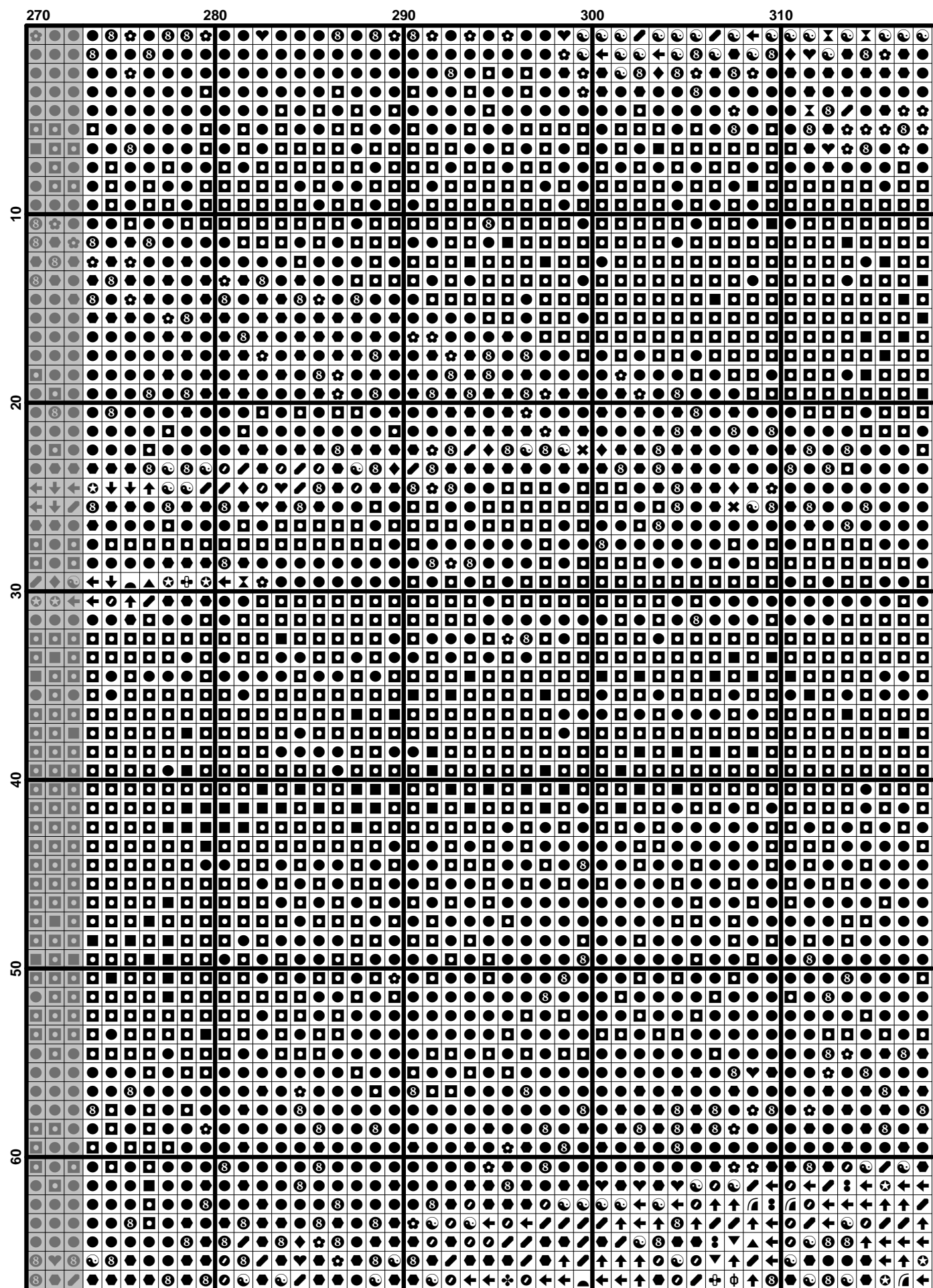
$$(11) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

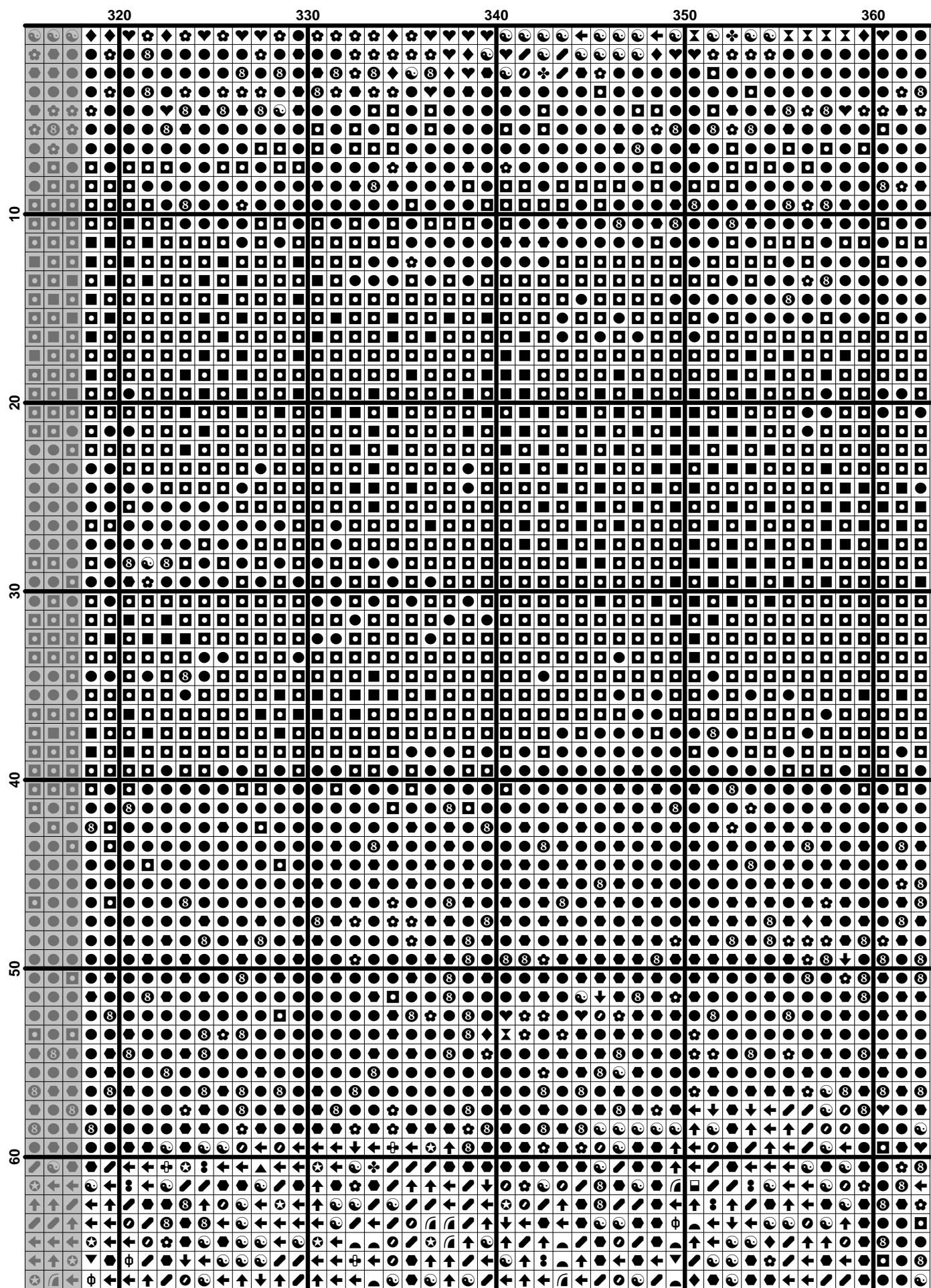


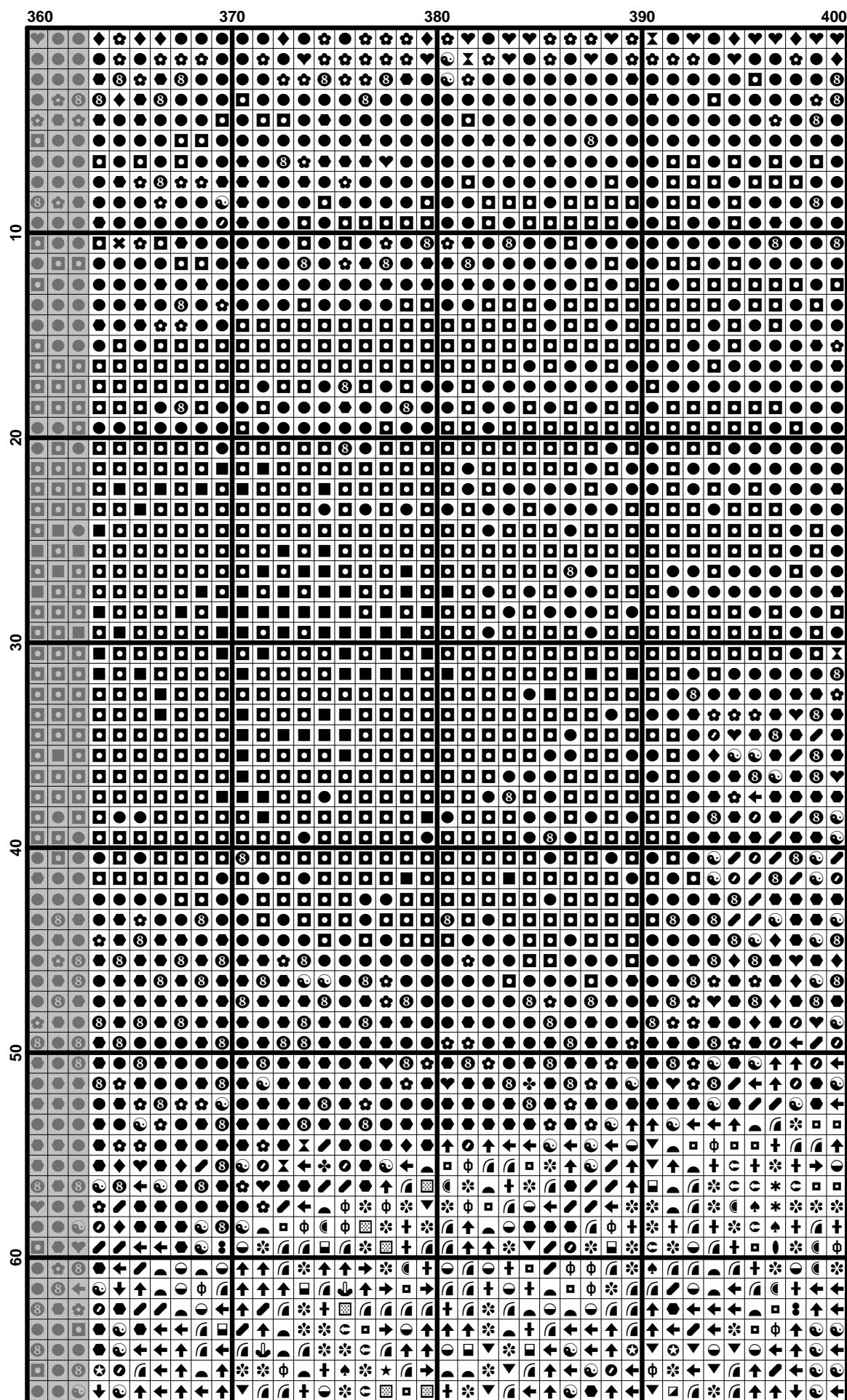






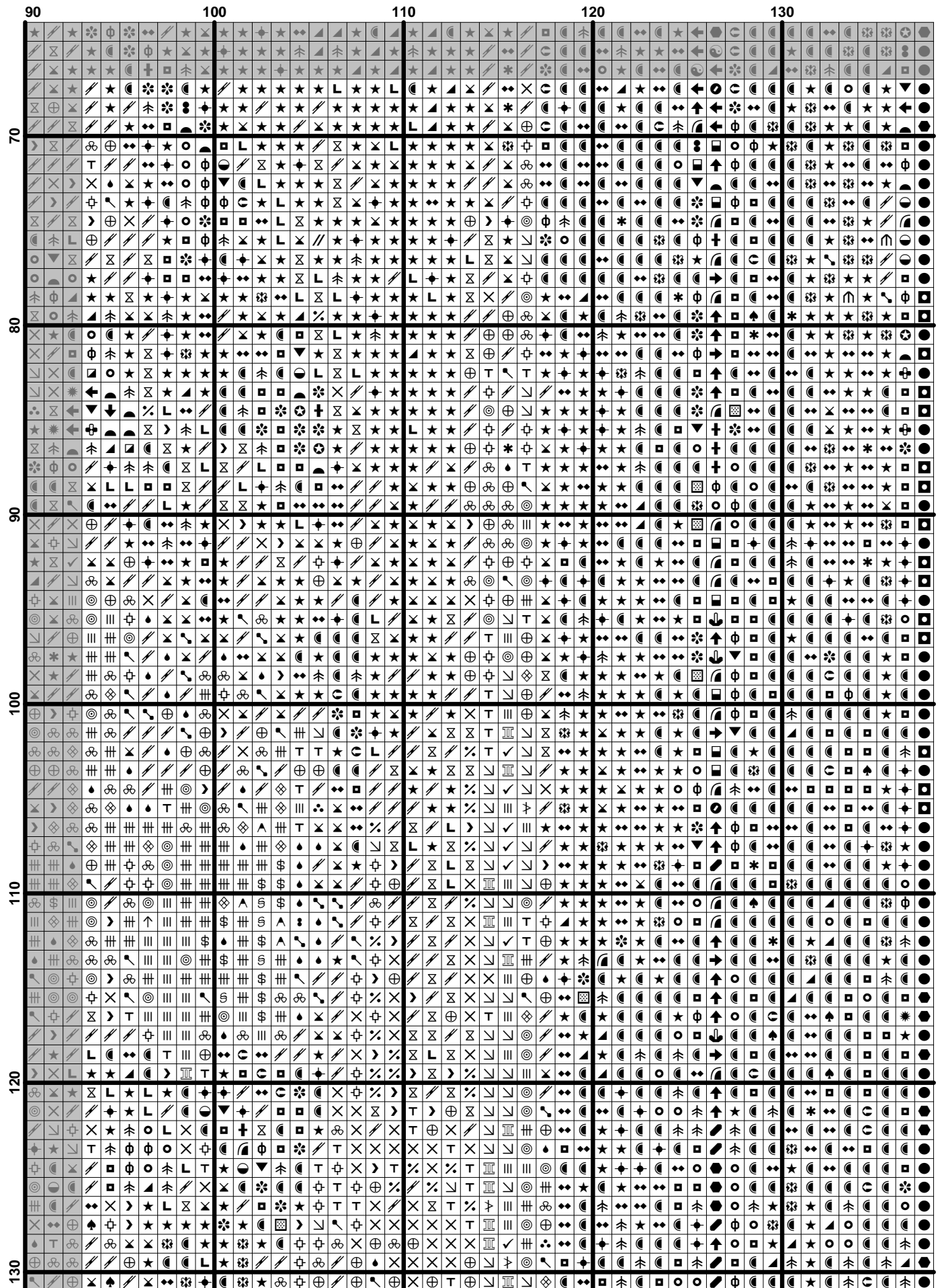


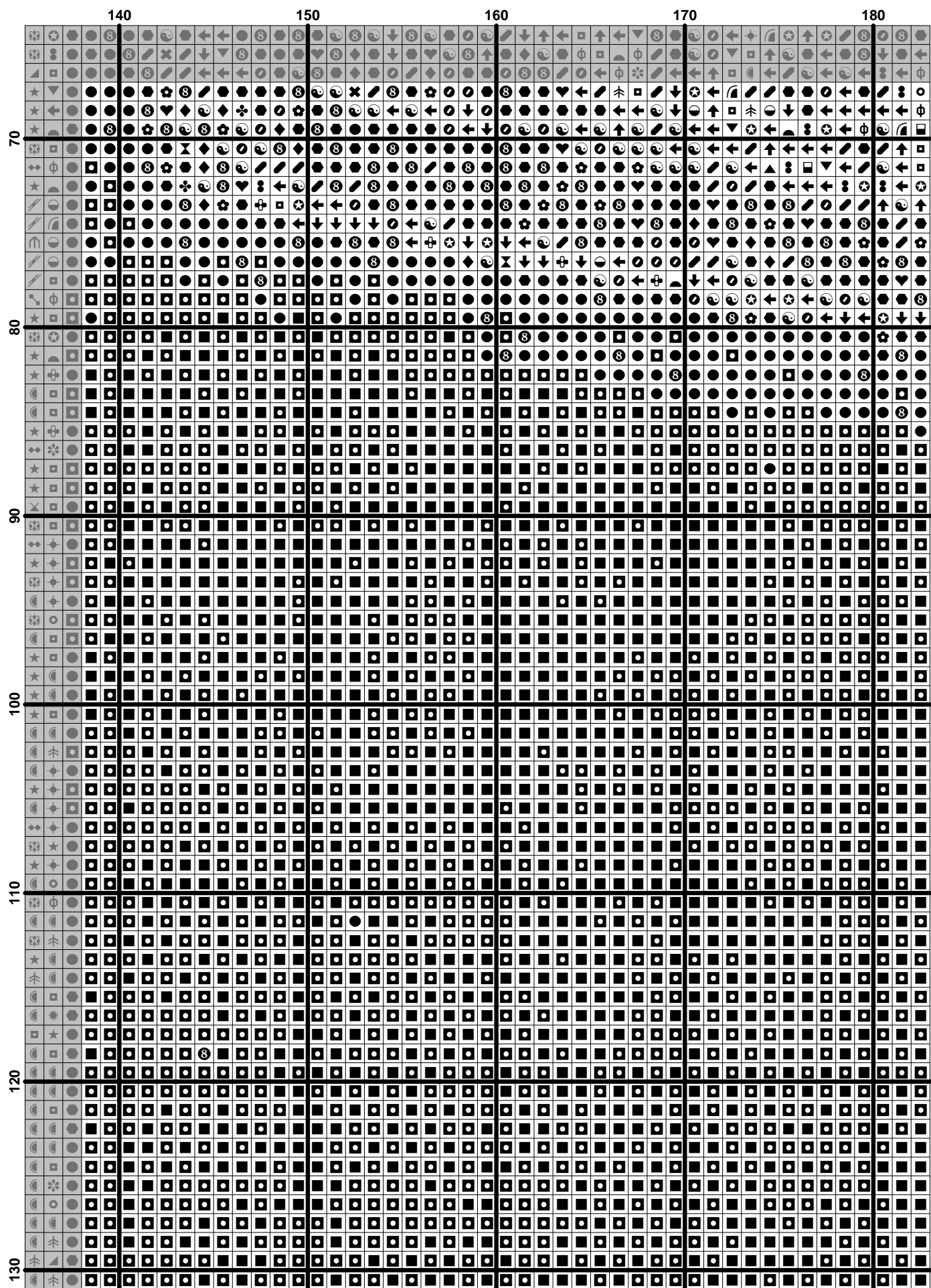


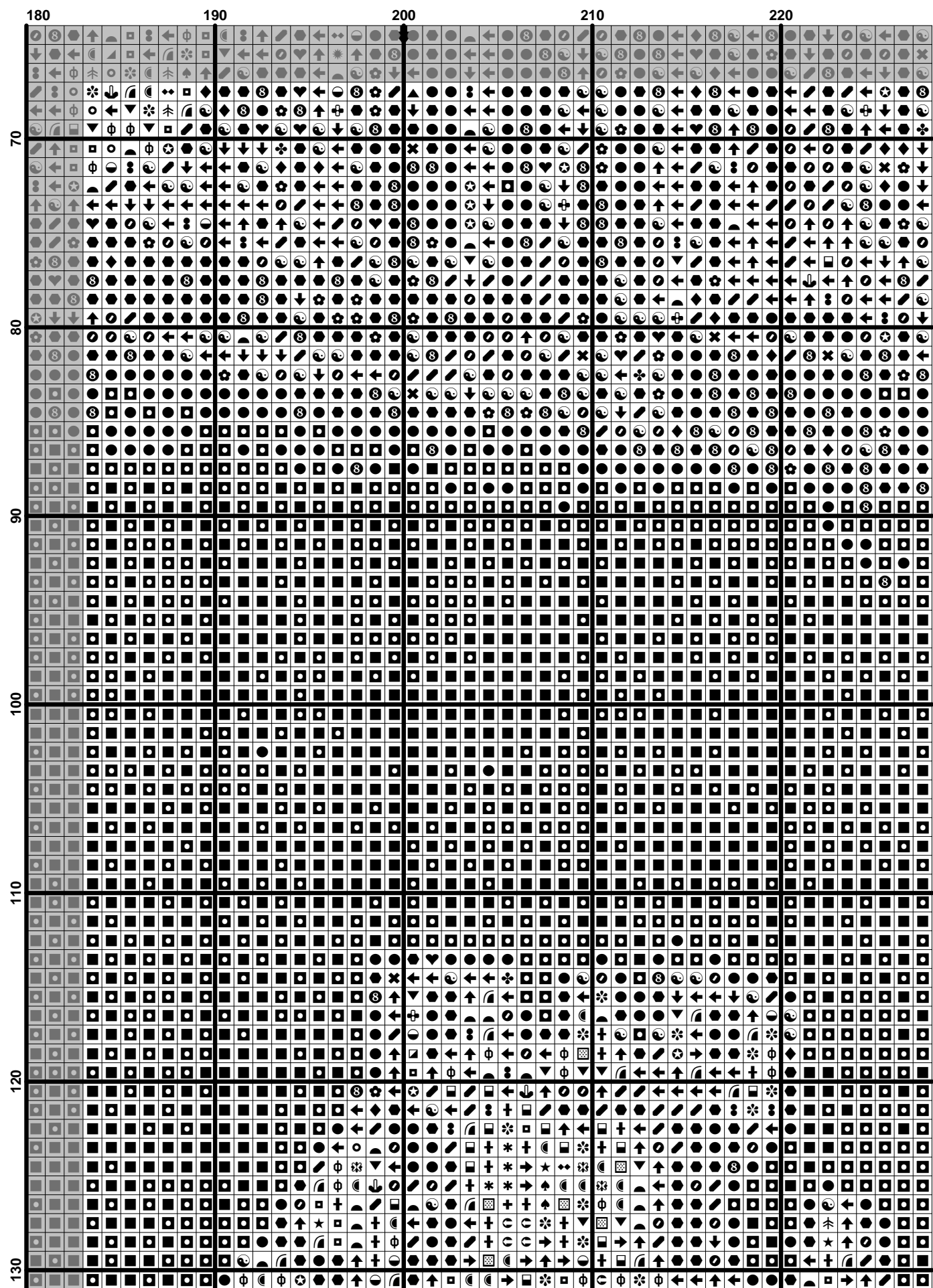


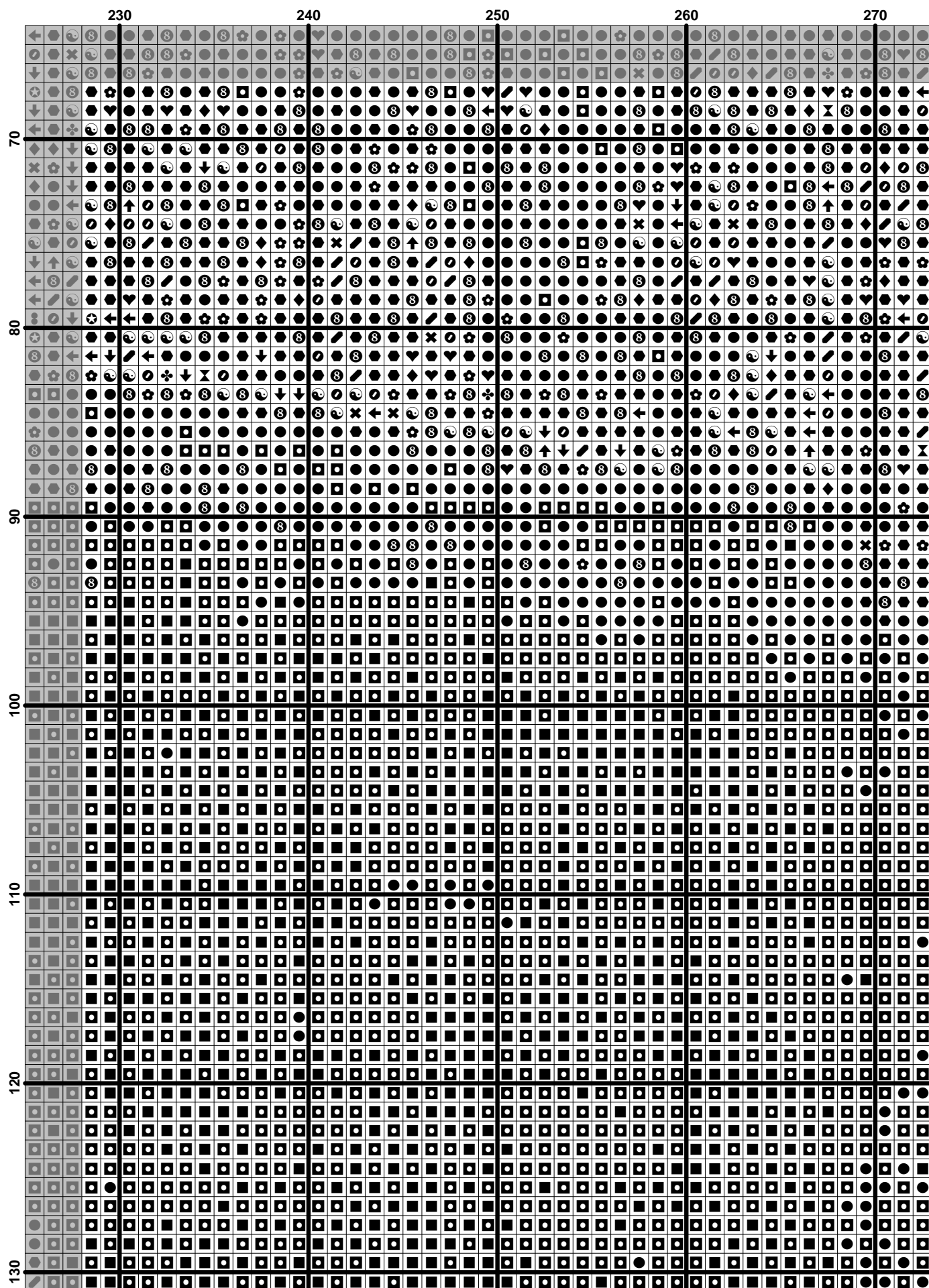
$$(19) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

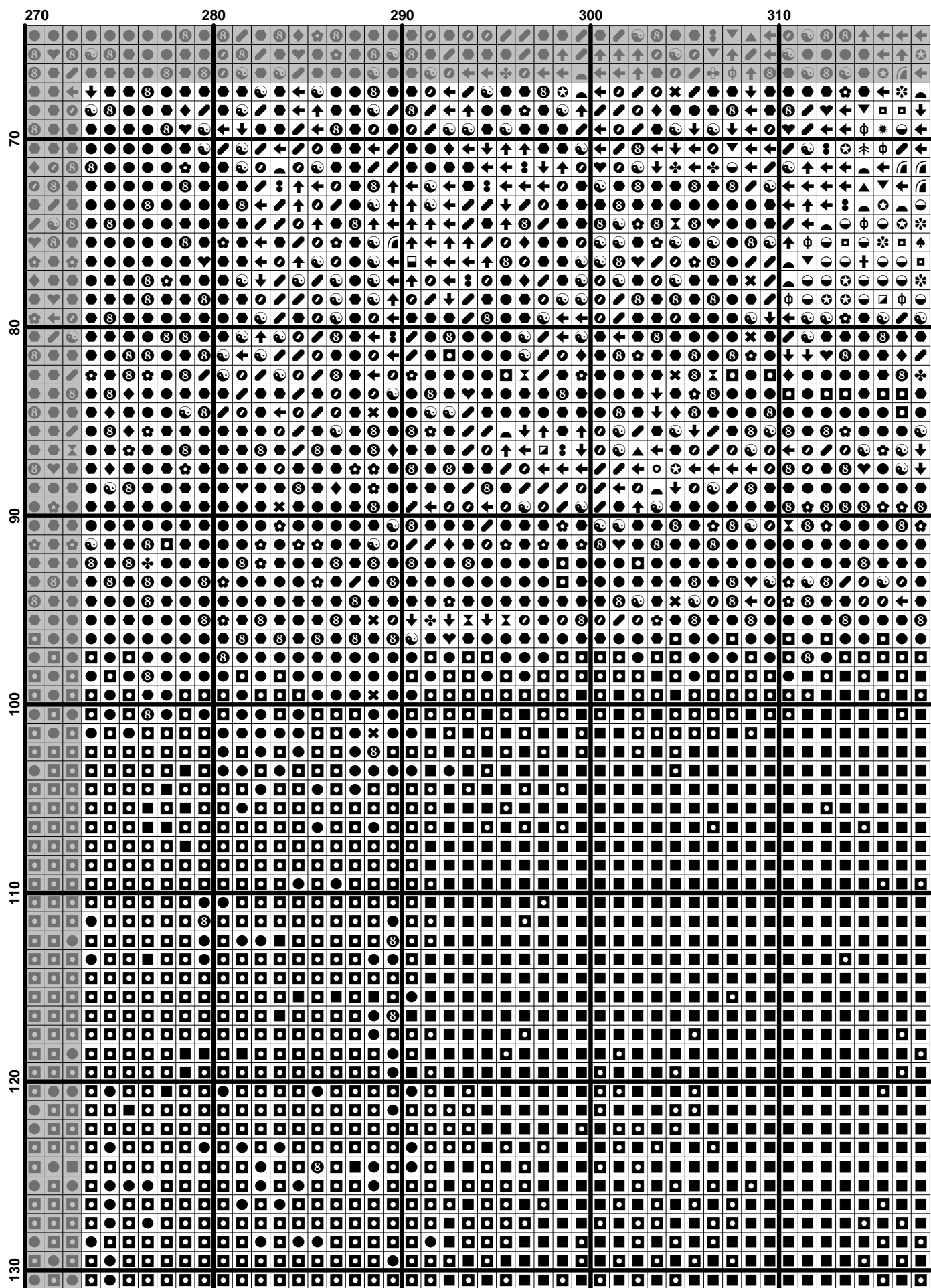
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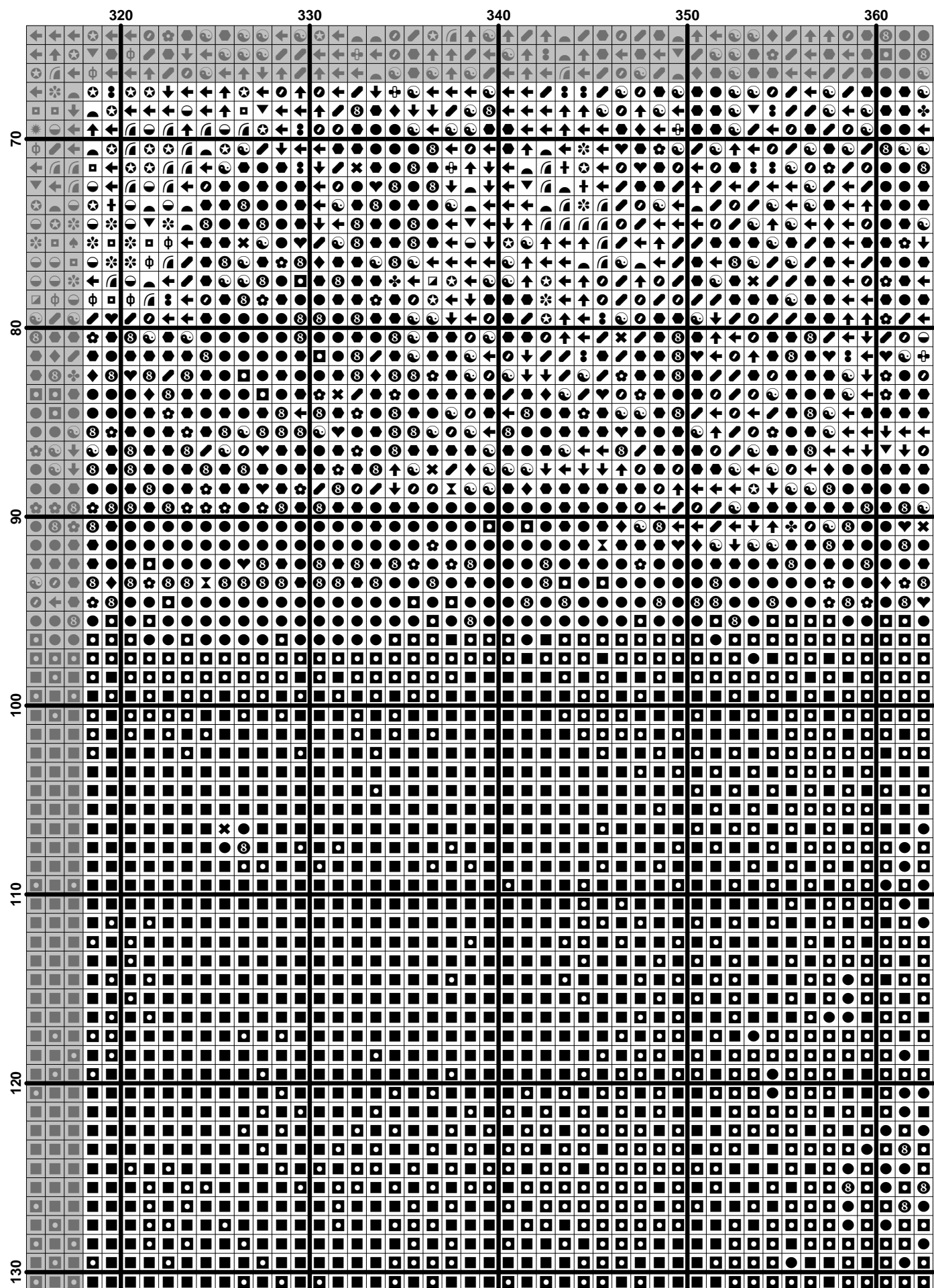


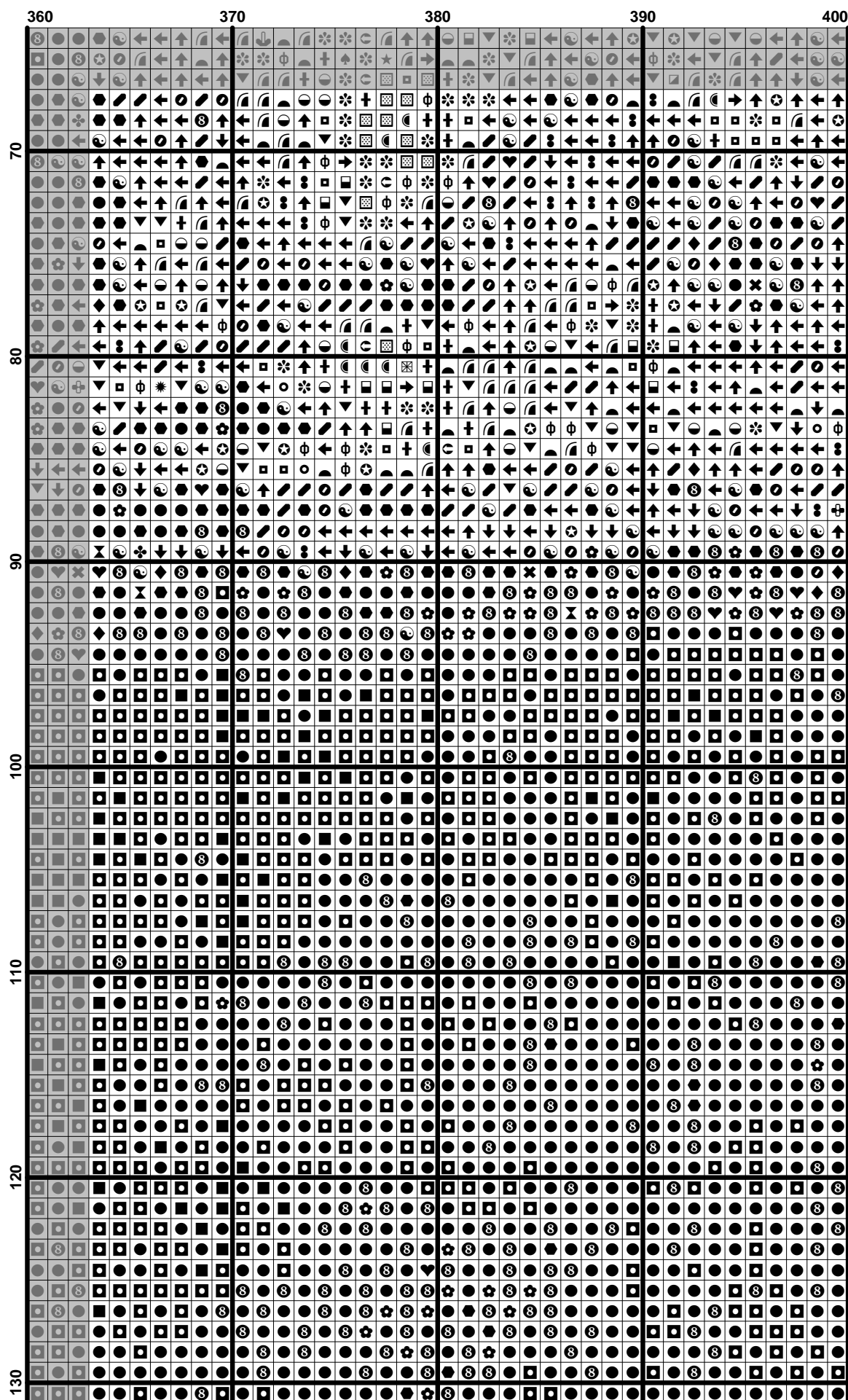








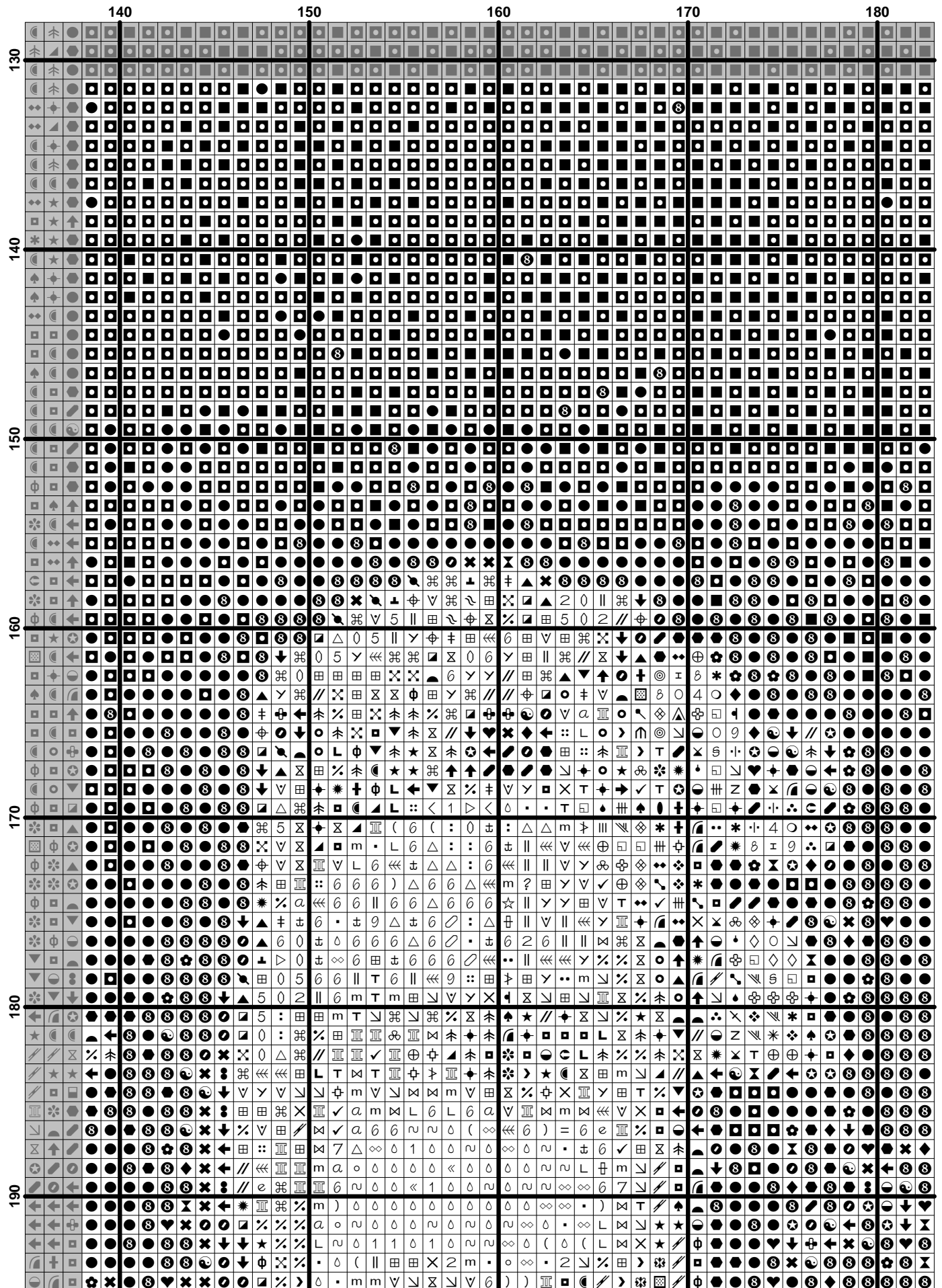


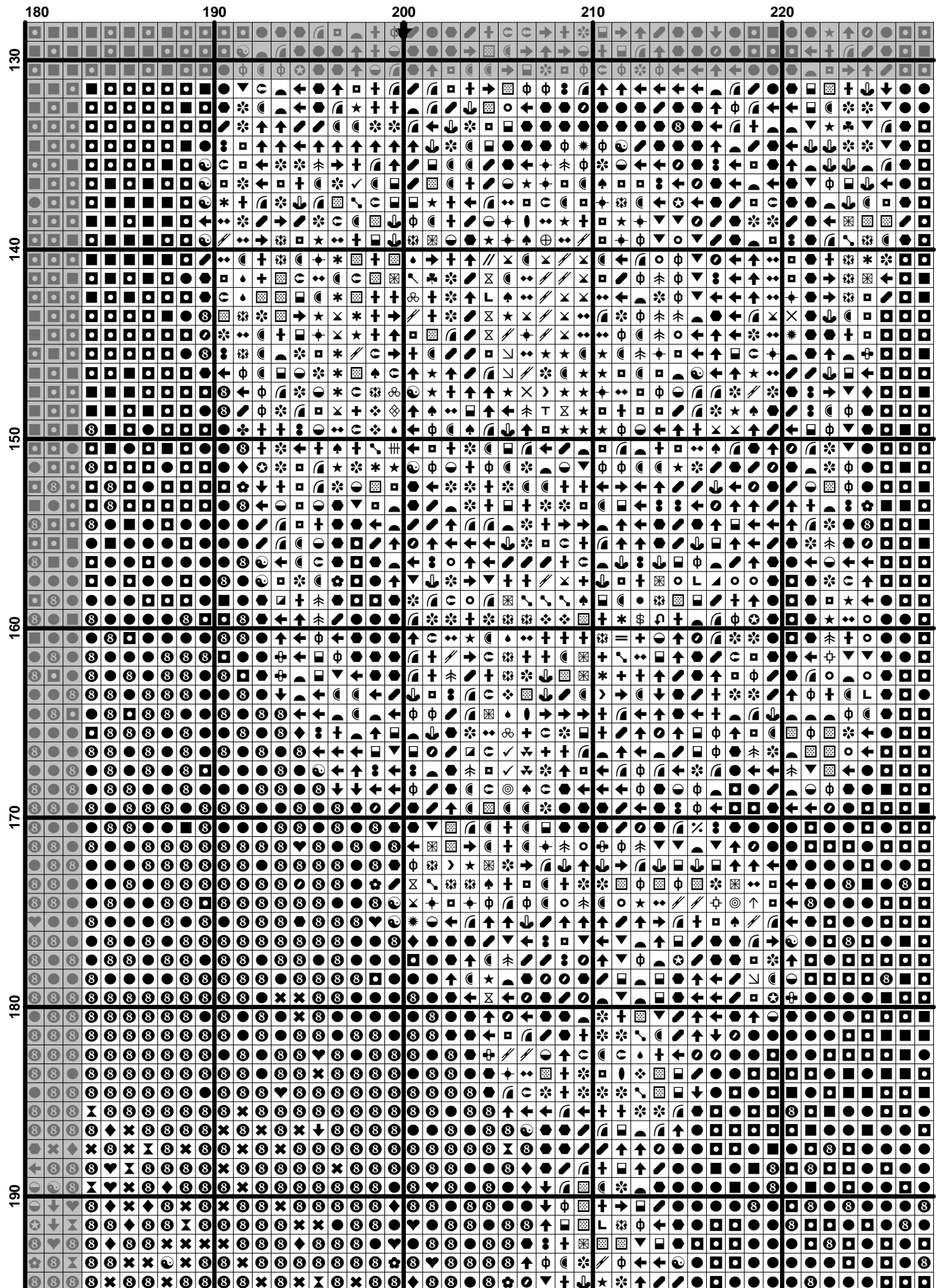


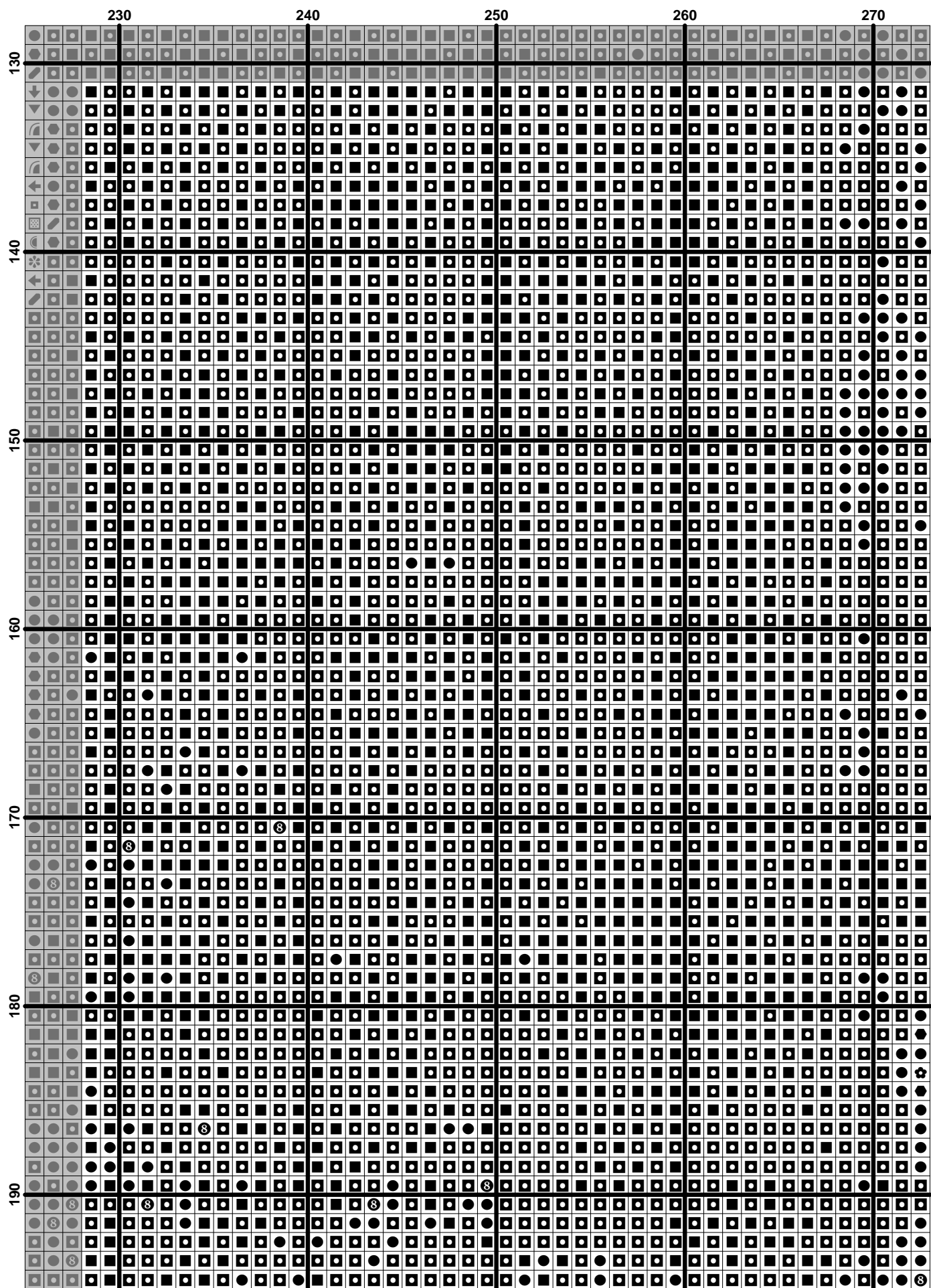
	10	20	30	40
130				
140				
150				
160				
170				
180				
190				

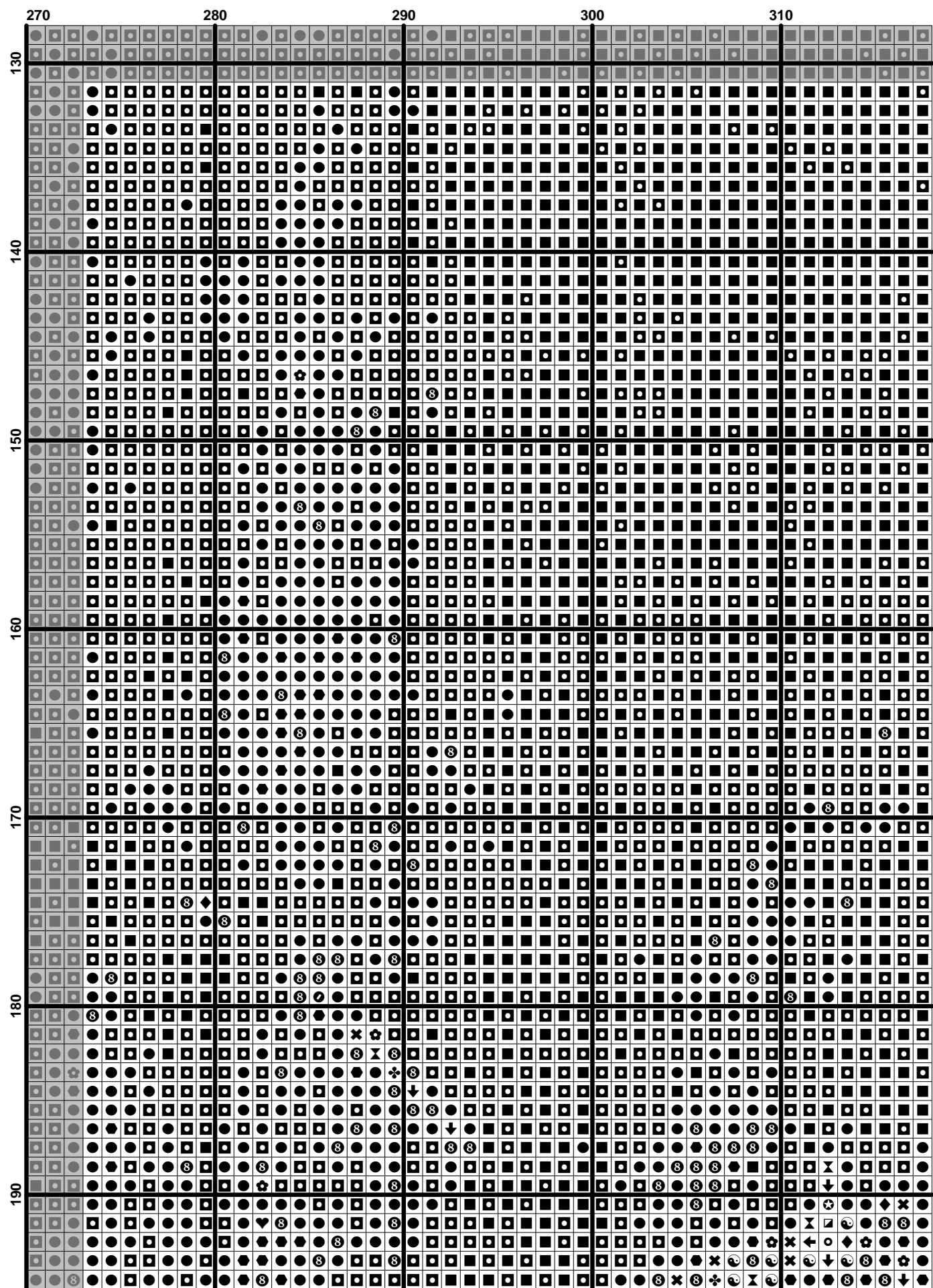
$$(29) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (30)$$

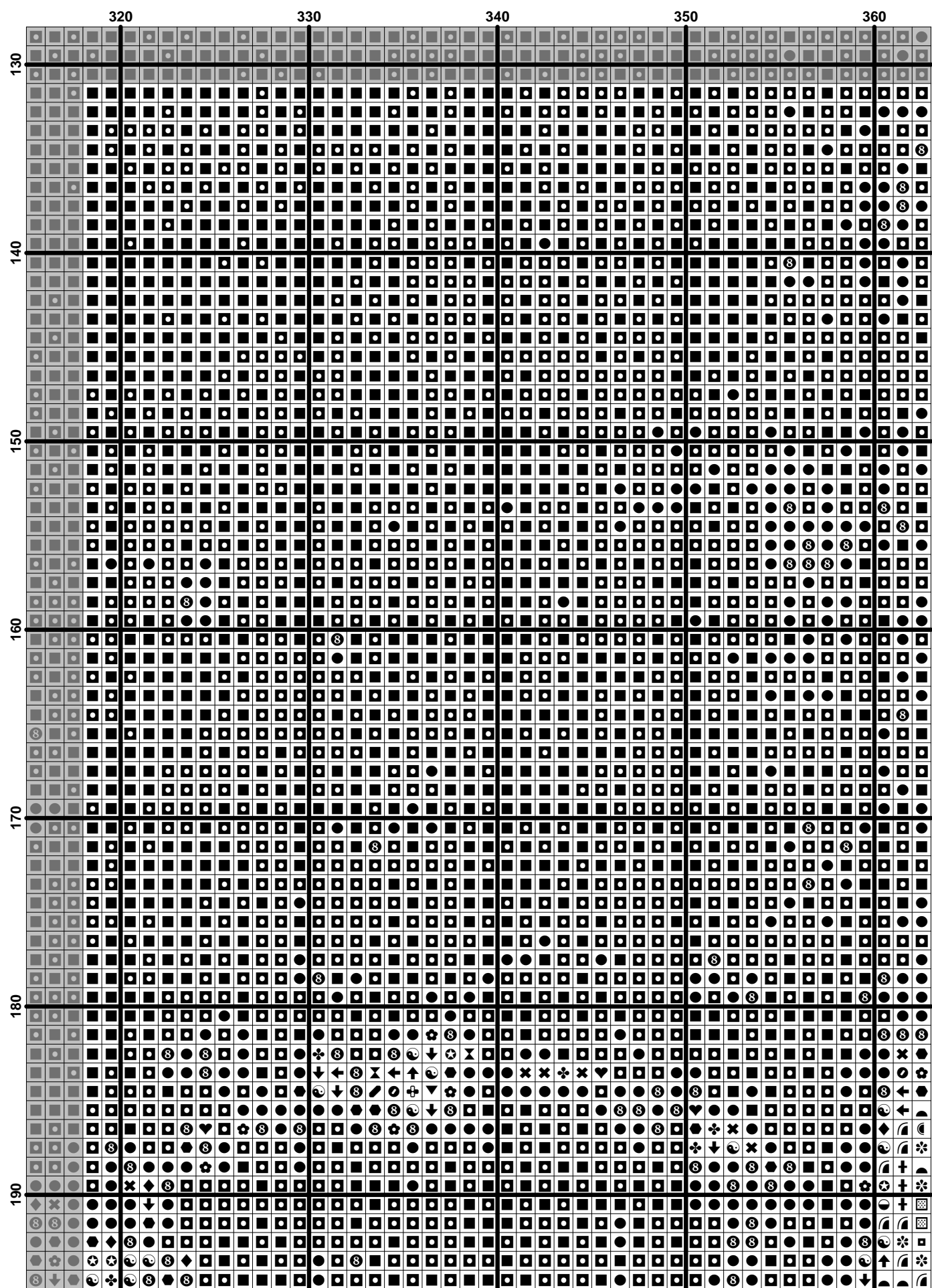
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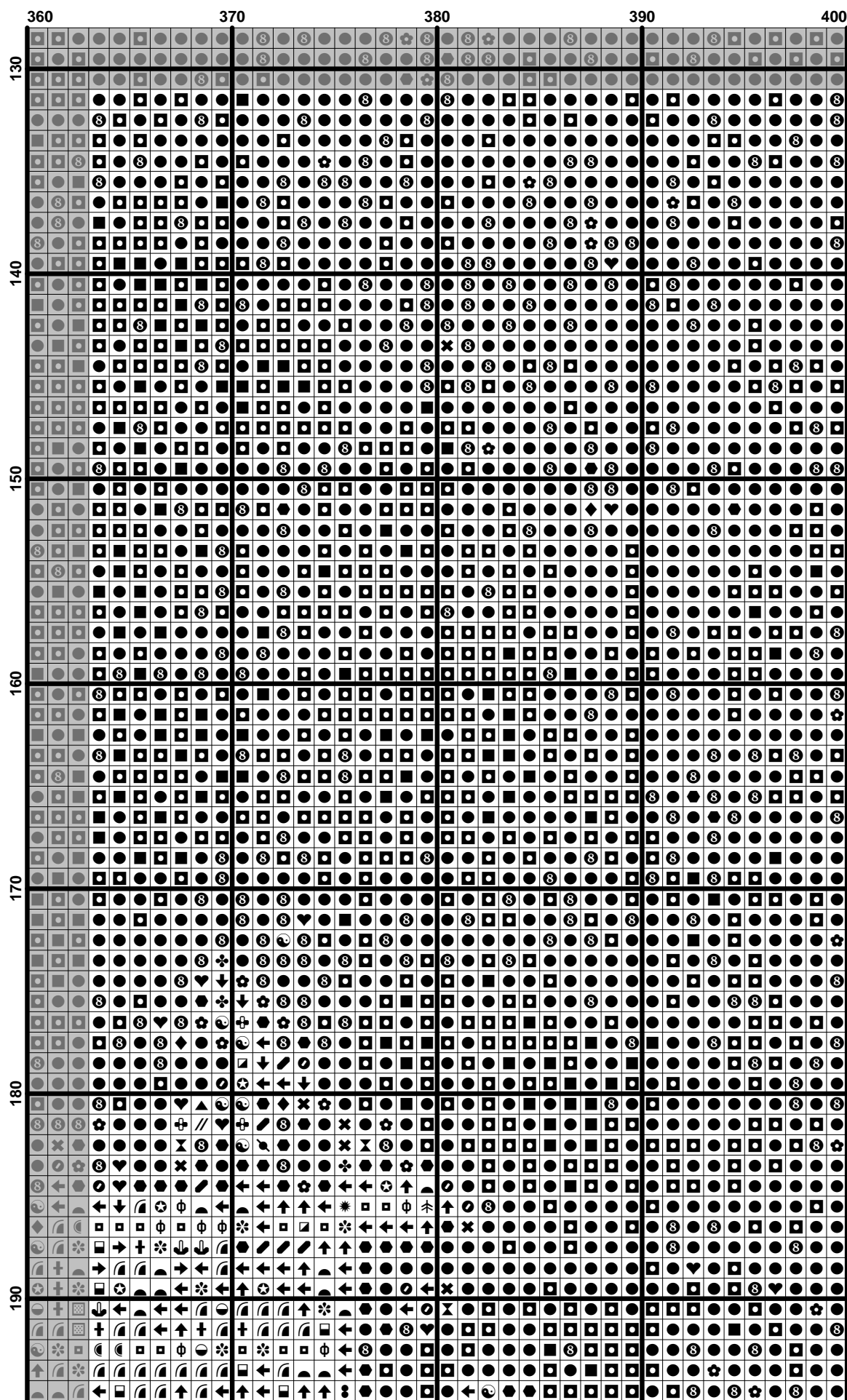












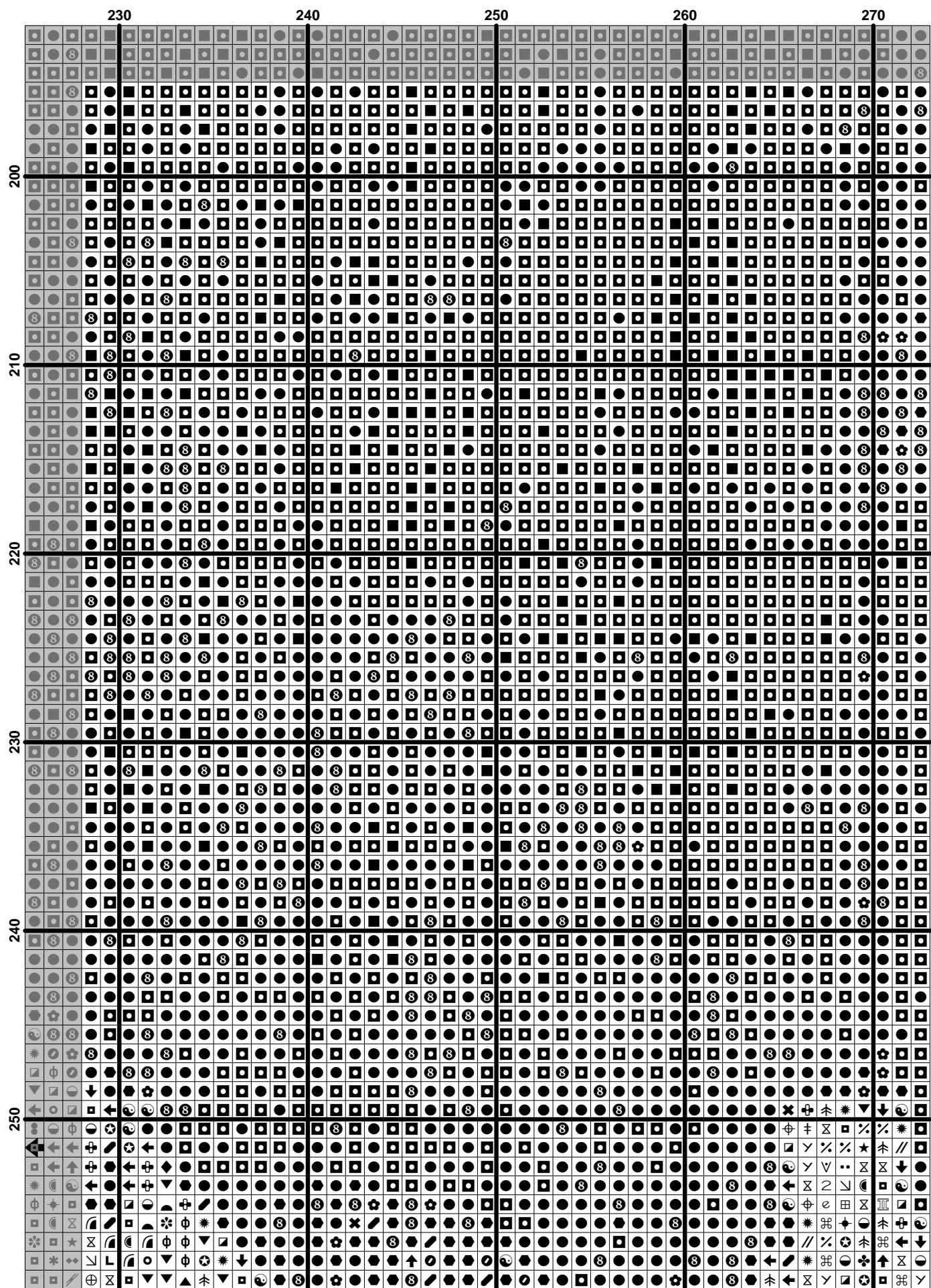
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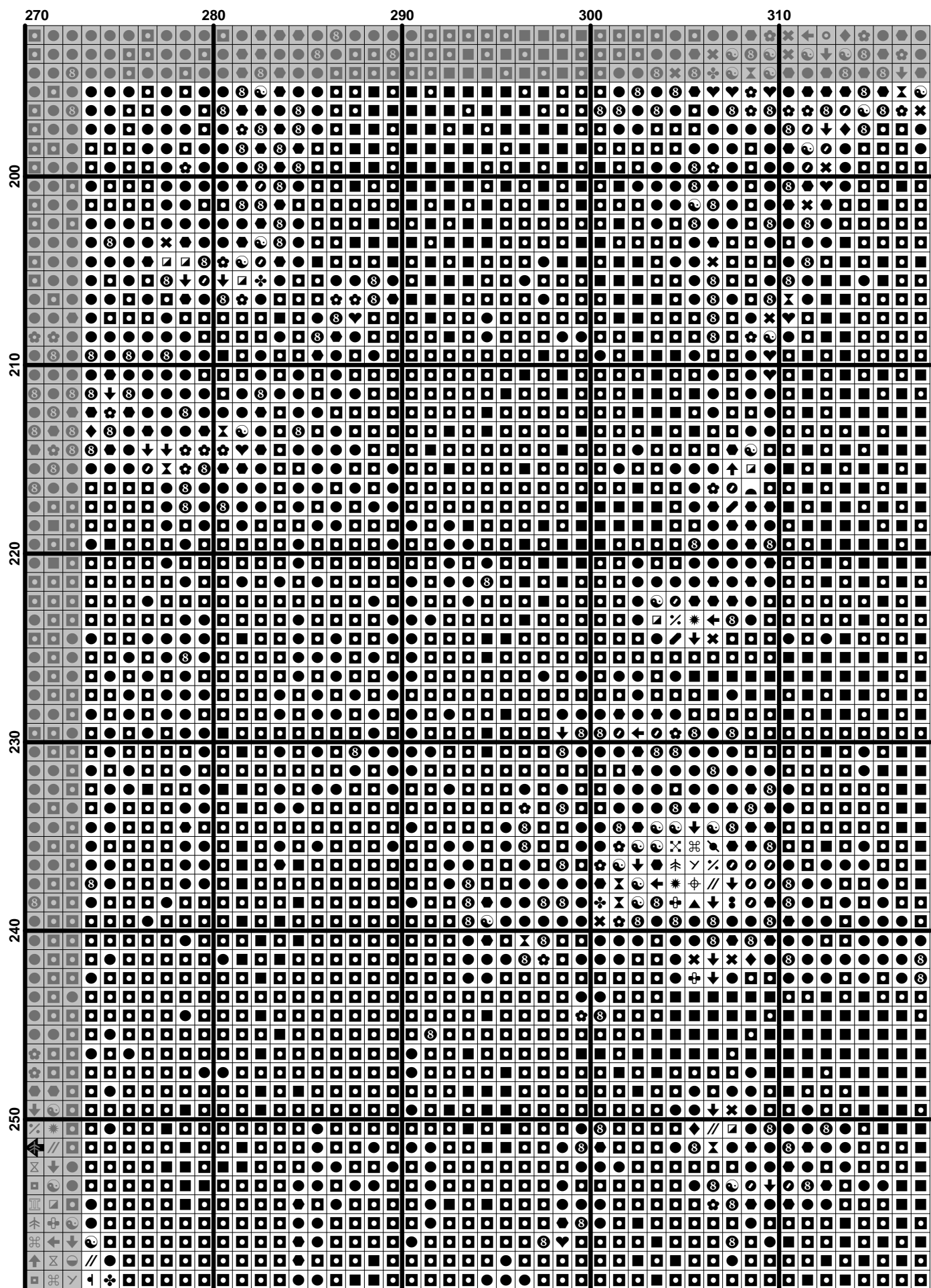
(39)

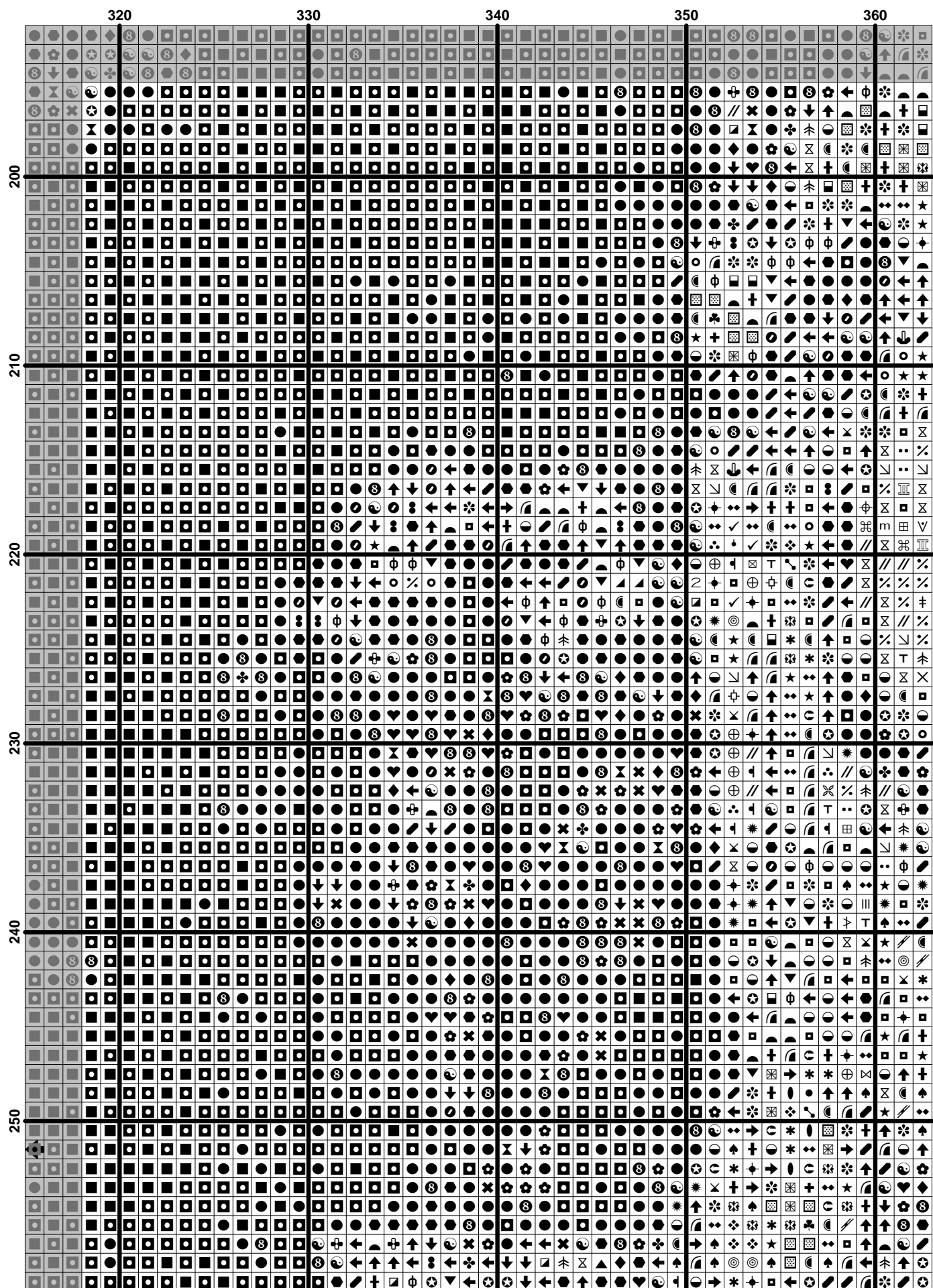
90	100	110	120	130
90	100	110	120	130
200	210	220	230	240
250				

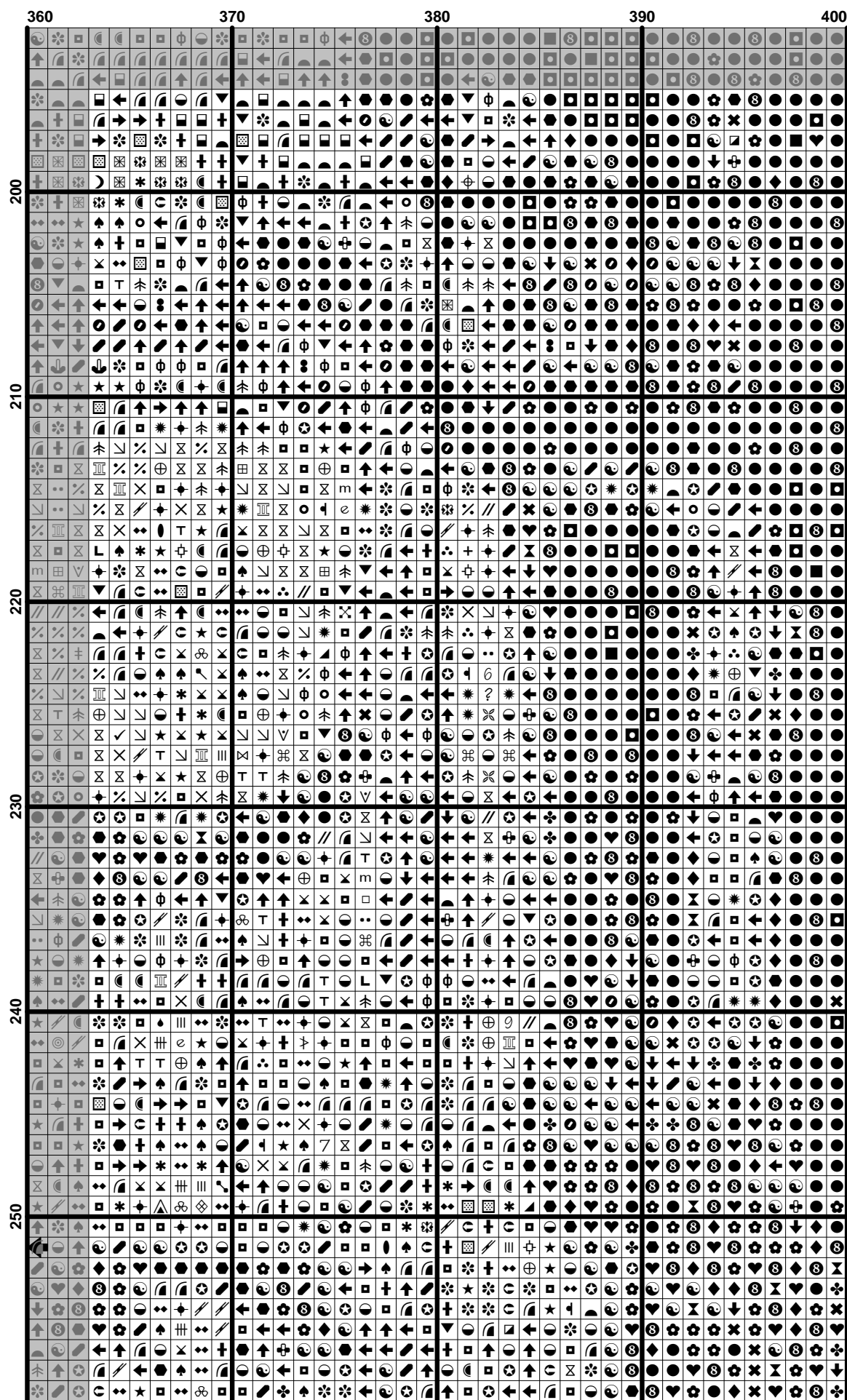
	140	150	160	170	180
200
210
220
230
240
250

$$(41) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (42)$$









	10	20	30	40
260
270
280
290
300
310
320

$$(47) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

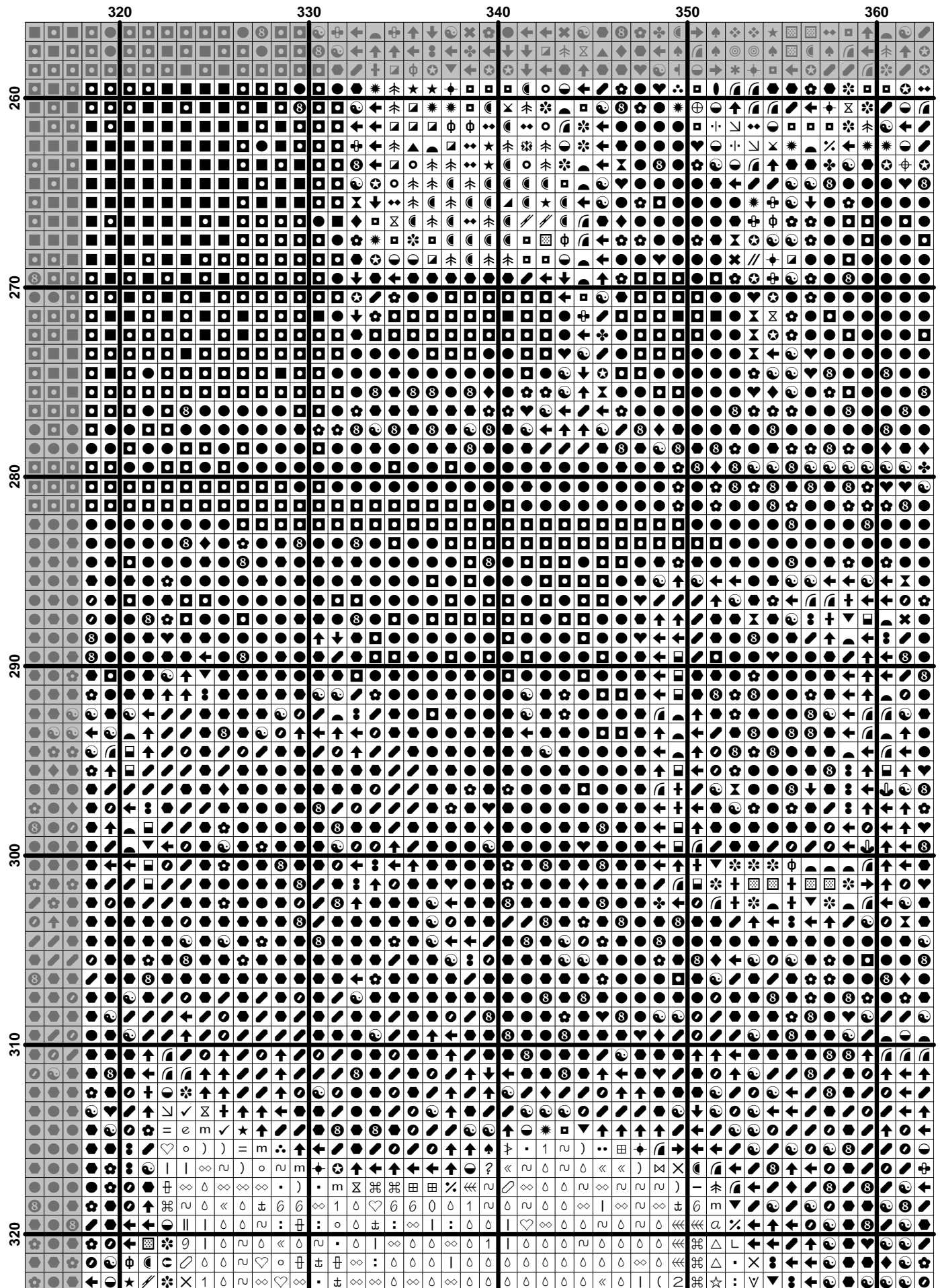
[illegible]

	140	150	160	170	180
260	Φ ▲ ▲ ▲ ▲	○ □ □ ▲ 0 . ∞ ∞ ∞	∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞	∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞	∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞
270	○ ▼ ▼ ▼ ▼	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
280	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
290	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
300	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
310	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
320	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○

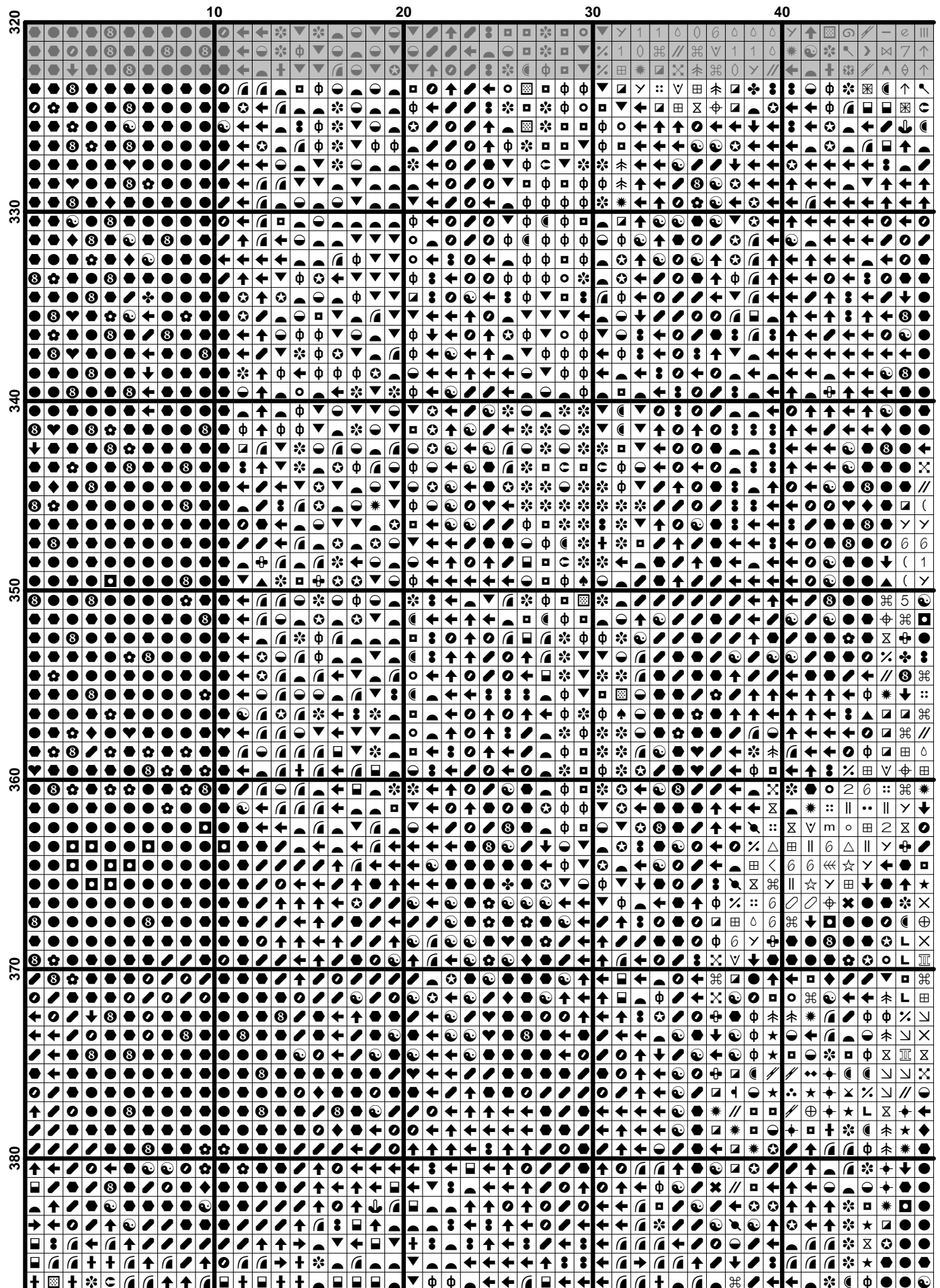
[illegible]

	230	240	250	260	270
260	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
270	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
280	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
290	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
300	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
310	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
320	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>

$$(52) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$







$$(56) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	320	330	340	350	360	370	380
100							
110							
120							
130							

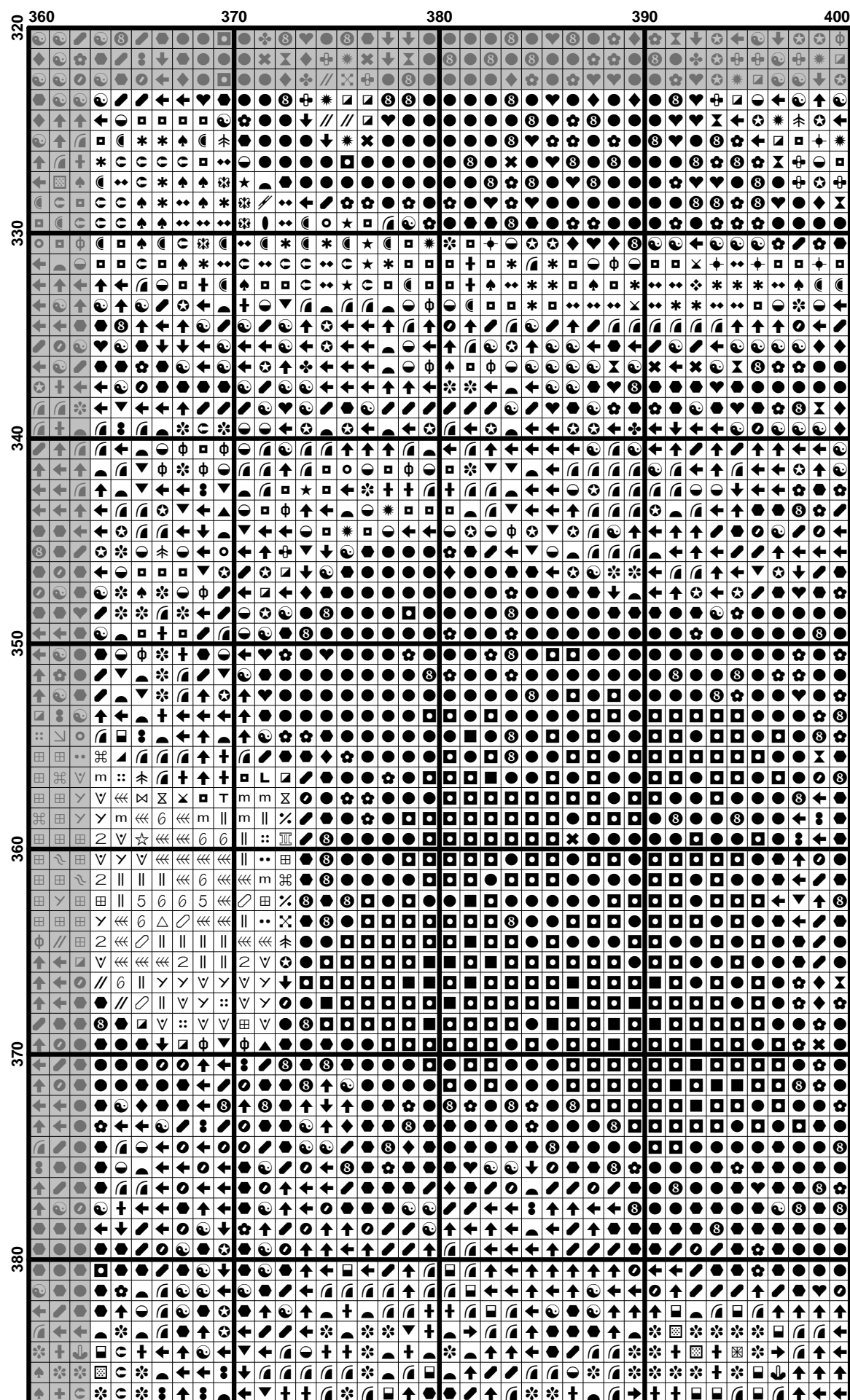
$$(58) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

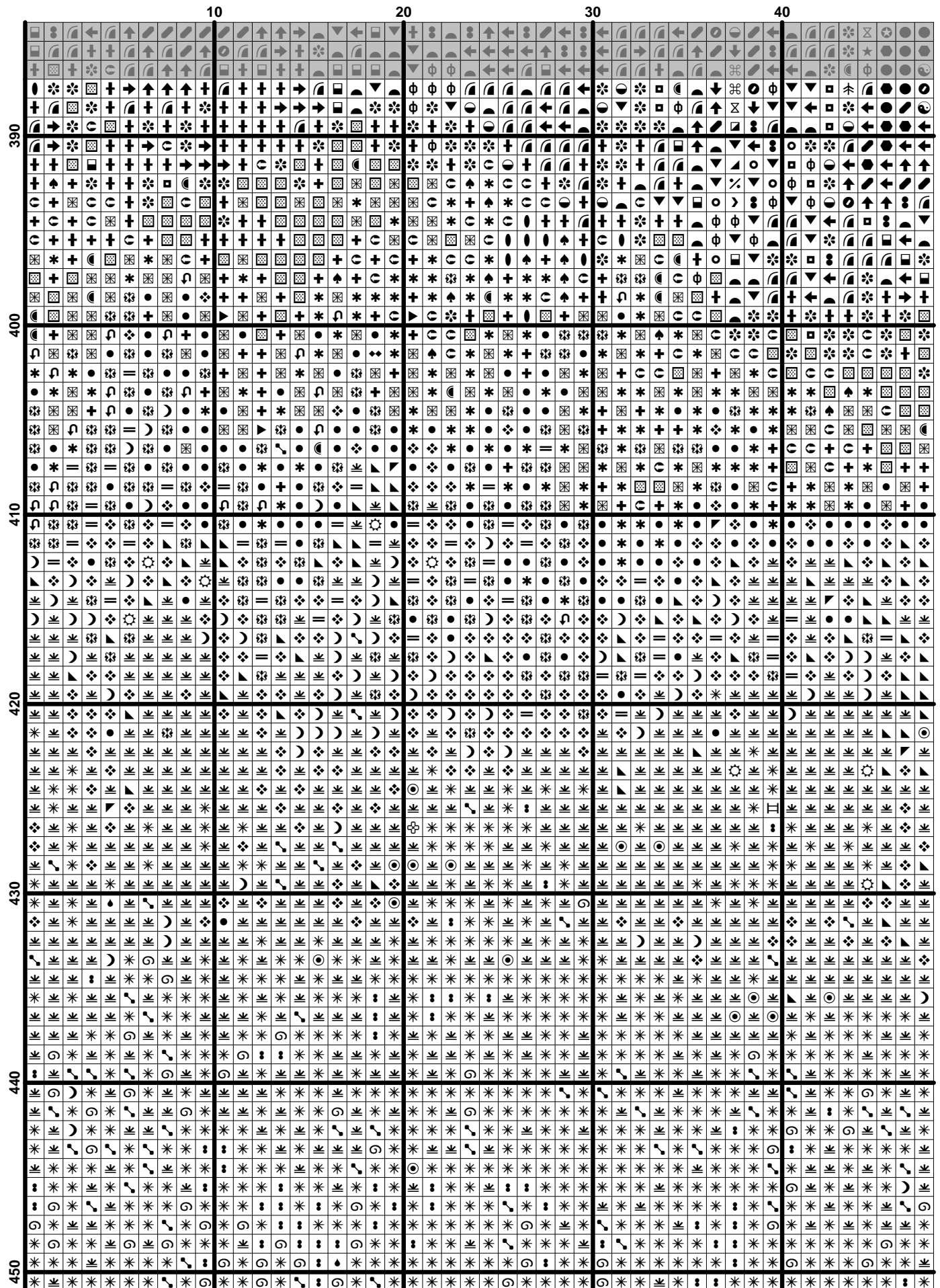
[illegible]

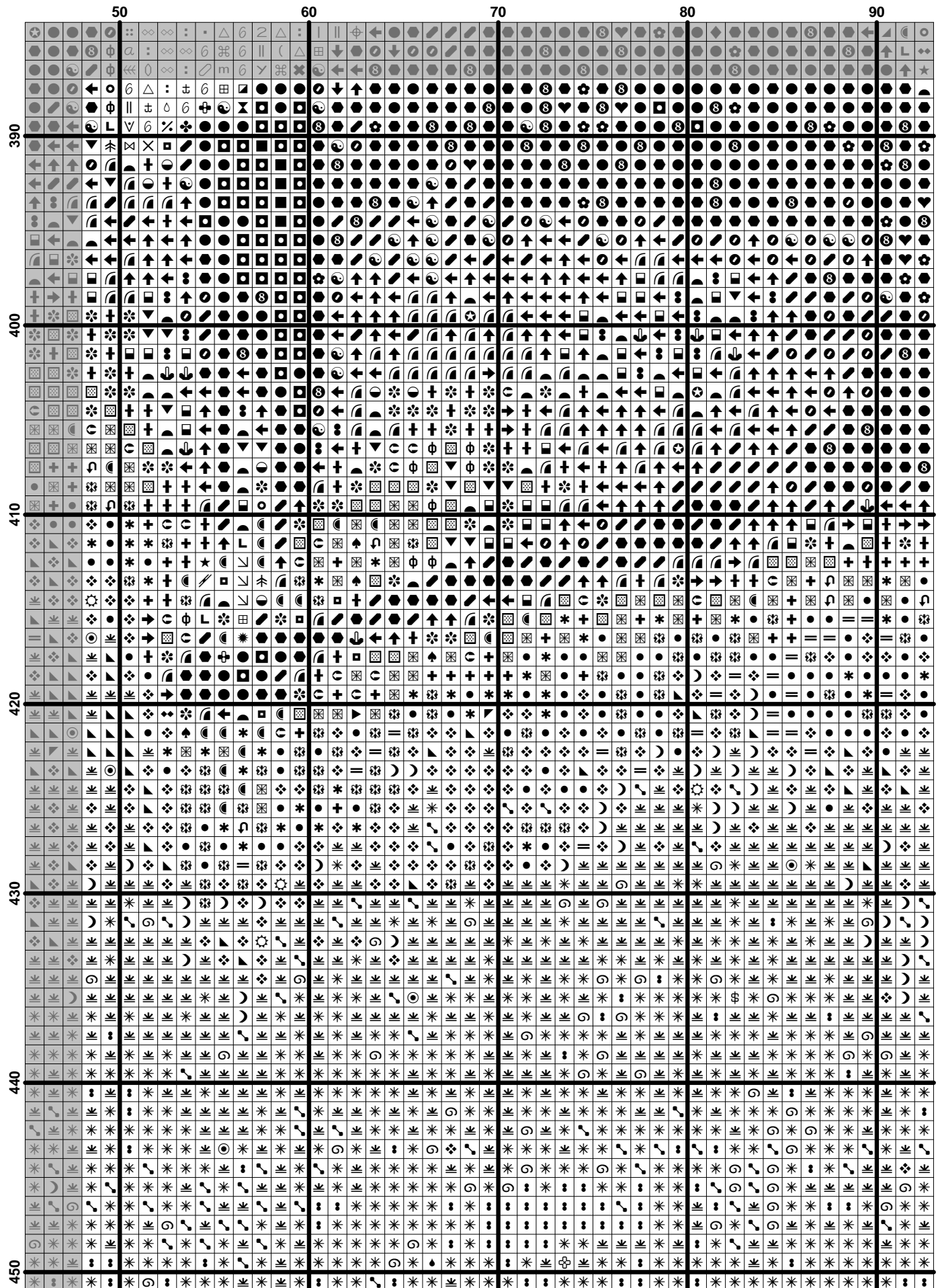
(61)

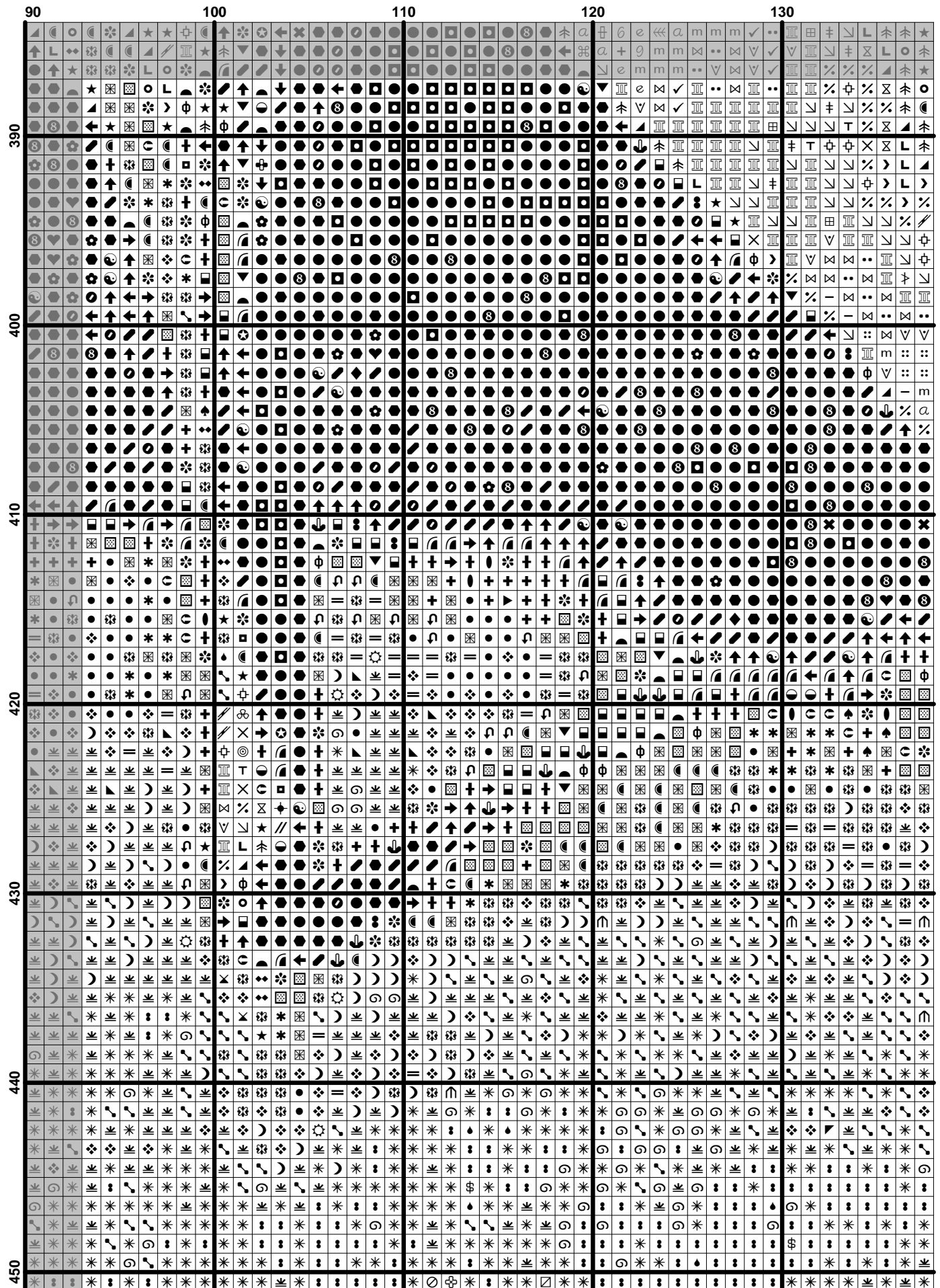
$$(61) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	320	330	340	350	360
320
330
340
350
360
370
380

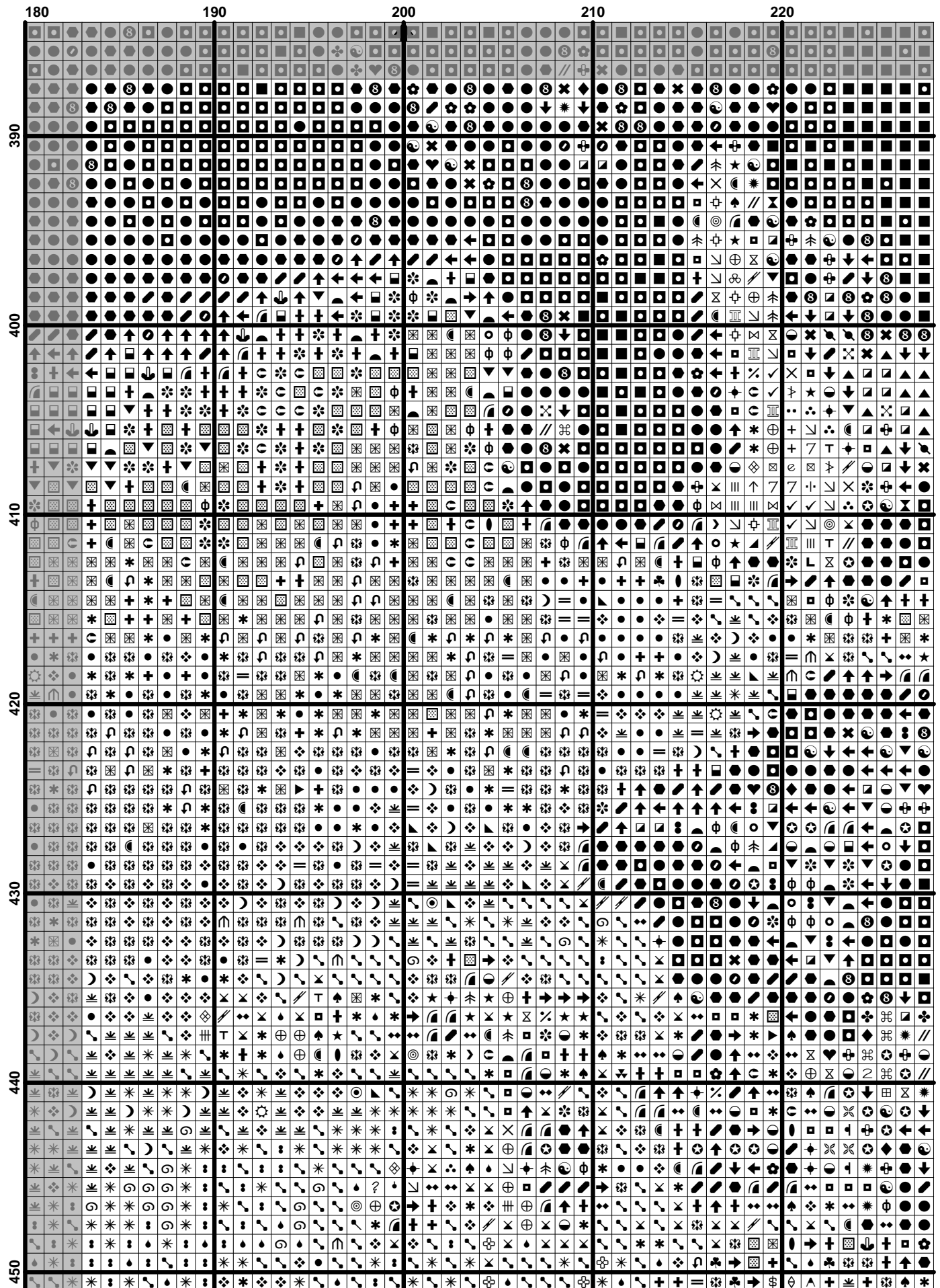


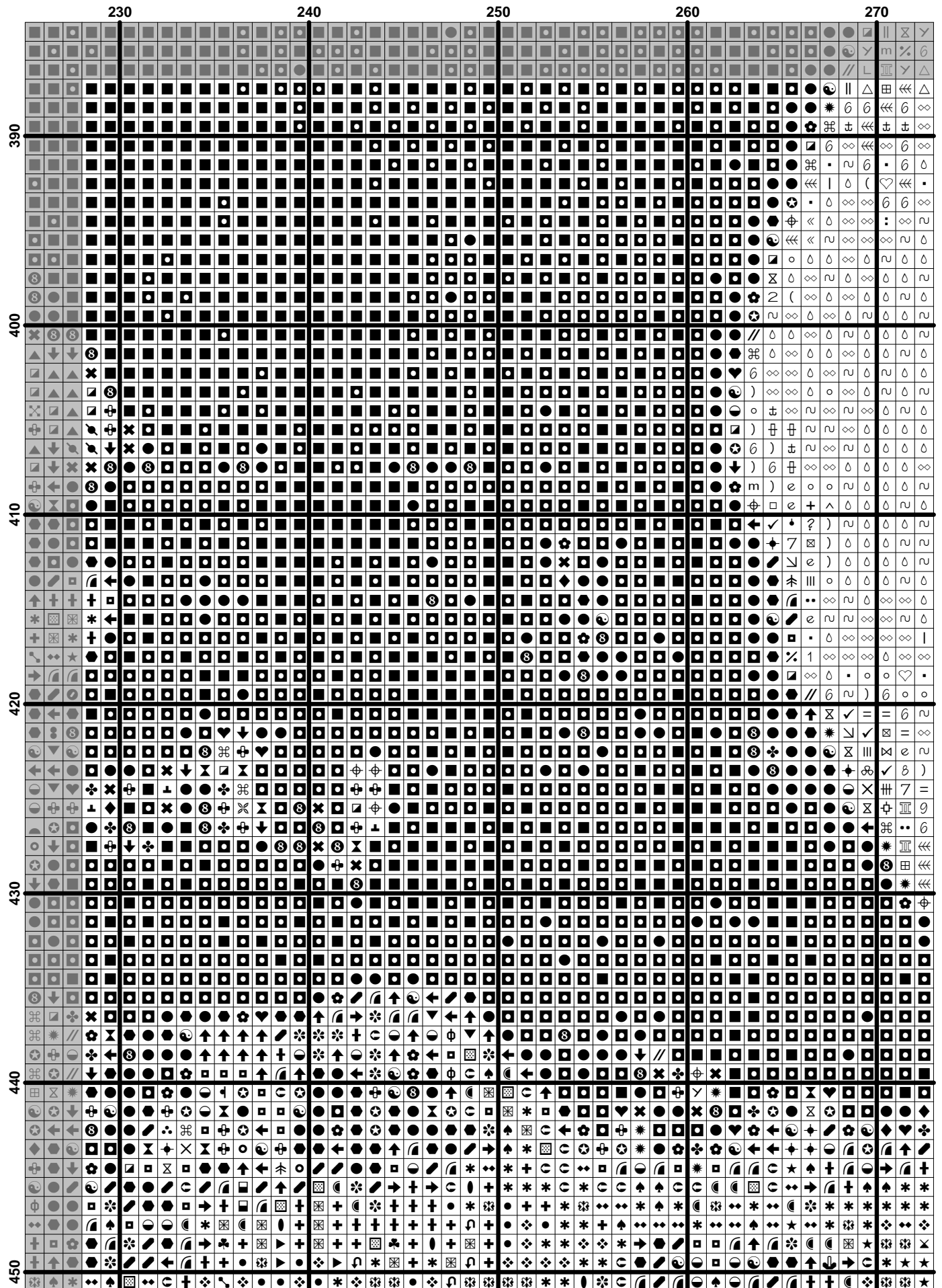






[illegible]





$$(70) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

