

1426 Charlotte of Owen



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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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Charlotte of Owen

Stitch Count	
Horizontal:	400
Vertical:	480

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	87	34.23	64	24.89	77	29.95	57	22.125	68	26.625
Including Margins:	89	35	103	41	80	31	93	36	73	29	84	33
	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	121	47.92	85	33.18	101	39.93	42	16.59	50	19.96
Including Margins:	118	46	137	54	101	40	117	46	58	23	66	26
	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	48	19.16	39	15.31	46	18.43	37	14.74	45	17.74
Including Margins:	56	22	64	26	55	22	62	25	53	21	61	24
	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	43	17.11	34	13.27	40	15.97	31	12.44	38	14.97
Including Margins:	52	21	59	24	50	20	56	22	47	19	54	21

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

Symbol	DMC	Name
e	224	Shell Pink-VY LT
➔	300	Mahogany-VY DK
✕	317	Pewter Gray
⬢	336	Navy Blue
✧	356	Terra Cotta-MD
⬢	370	Mustard-MD
•	372	Mustard-LT
II	407	Desert Sand-DK
III	413	Pewter Gray-DK
*	414	Steel Gray-DK
•	420	Hazelnut Brown-DK
3	422	Hazelnut Brown-LT
•	433	Brown-MD
•	434	Brown-LT
••	436	Tan
?	437	Tan-LT
›	451	Shell Gray-DK
m	452	Shell Gray-MD
⬢	453	Shell Gray-LT
I	535	Ash Gray-VY LT
•	543	Beige Brown-UL VY LT
⬢	610	Drab Brown-DK
•	611	Drab Brown
•	612	Drab Brown-LT
II	613	Drab Brown-VY LT
o	632	Desert Sand-UL VY DK
o	640	Beige Gray-VY DK
III	642	Beige Gray-DK
✧	645	Beaver Gray-VY DK
•	646	Beaver Gray-DK
III	647	Beaver Gray-MD
◇	648	Beaver Gray-LT
•	680	Old Gold-DK
7	734	Olive Green-LT
a	738	Tan-VY LT
(739	Tan-UL VY LT
>	754	Peach-LT
~	762	Pearl Gray-VY LT
•	801	Coffee Brown-DK
^	822	Beige Gray-LT

•	829	Golden Olive-VY DK
*	830	Golden Olive-DK
•	831	Golden Olive-MD
✧	839	Beige Brown-DK
✕	841	Beige Brown-LT
+	842	Beige Brown-VY LT
✧	844	Beaver Brown-UL DK
•	869	Hazelnut Brown-VY DK
✕	898	Coffee Brown-VY DK
✓	927	Gray Green-LT
o	928	Gray Green-VY LT
▼	930	Antique Blue-DK
•	938	Coffee Brown-UL DK
v	945	Tawny
n	948	Peach-VY LT
o	950	Desert Sand-LT
•	975	Golden Brown-DK
•	3021	Brown Gray-VY DK
•	3022	Brown Gray-MD
+	3023	Brown Gray-LT
L	3024	Brown Gray-VY LT
•	3031	Mocha Brown-VY DK
•	3032	Mocha Brown-MD
□	3033	Mocha Brown-VY LT
•	3045	Yellow Beige-DK
o	3046	Yellow Beige-MD
•	3072	Beaver Gray-VY LT
■	3371	Black Brown
••	3772	Desert Sand-VY DK
I	3774	Desert Sand-VY LT
▲	3781	Mocha Brown-DK
—	3782	Mocha Brown-LT
▼	3787	Brown Gray-DK
•	3790	Beige Gray-UL DK
••	3809	Turquoise-VY DK
•	3828	Hazelnut Brown
•	3858	Rosewood-MD
•	3859	Rosewood-LT
★	3862	Mocha Beige-DK
•	3863	Mocha Beige-MD
•	3864	Mocha Beige-LT
•	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
♠	610	Drab Brown-DK	839	Beige Brown-DK
•	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
III	839	Beige Brown-DK	844	Beaver Brown-UL DK
•	844	Beaver Brown-UL DK	3021	Brown Gray-VY DK
▲	3787	Brown Gray-DK	3790	Beige Gray-UL DK
↑	407	Desert Sand-DK	3864	Mocha Beige-LT

↓	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
◇	640	Beige Gray-VY DK	3860	Cocoa
■	844	Beaver Brown-UL DK	3787	Brown Gray-DK
⬆	3721	Shell Pink-DK	3772	Desert Sand-VY DK
1	712	Cream	762	Pearl Gray-VY LT
=	610	Drab Brown-DK	632	Desert Sand-UL VY DK
«	762	Pearl Gray-VY LT	3756	Baby Blue-UL VY LT
✦	645	Beaver Gray-VY DK	3860	Cocoa
⌘	451	Shell Gray-DK	647	Beaver Gray-MD
⌘	414	Steel Gray-DK	647	Beaver Gray-MD
⊖	437	Tan-LT	3064	Desert Sand
√	452	Shell Gray-MD	842	Beige Brown-VY LT
⌘	370	Mustard-MD	420	Hazelnut Brown-DK
◁	738	Tan-VY LT	3782	Mocha Brown-LT
◆	300	Mahogany-VY DK	938	Coffee Brown-UL DK
⊕	420	Hazelnut Brown-DK	3828	Hazelnut Brown
⊗	842	Beige Brown-VY LT	3864	Mocha Beige-LT
z	612	Drab Brown-LT	3772	Desert Sand-VY DK
≈	318	Steel Gray-LT	928	Gray Green-VY LT
▲	407	Desert Sand-DK	3861	Cocoa-LT
✕	420	Hazelnut Brown-DK	3772	Desert Sand-VY DK
◎	420	Hazelnut Brown-DK	3862	Mocha Beige-DK
◀	645	Beaver Gray-VY DK	839	Beige Brown-DK
<	3024	Brown Gray-VY LT	3072	Beaver Gray-VY LT
■	801	Coffee Brown-DK	838	Beige Brown-VY DK
⌘	762	Pearl Gray-VY LT	3743	Antique Violet-VY LT
∨	452	Shell Gray-MD	3861	Cocoa-LT
●	838	Beige Brown-VY DK	938	Coffee Brown-UL DK
↘	300	Mahogany-VY DK	975	Golden Brown-DK
↘	407	Desert Sand-DK	841	Beige Brown-LT
◦	3072	Beaver Gray-VY LT	3866	Mocha Brown-UL VY LT
☾	420	Hazelnut Brown-DK	869	Hazelnut Brown-VY DK
▷	3072	Beaver Gray-VY LT	3743	Antique Violet-VY LT
⊕	3772	Desert Sand-VY DK	3863	Mocha Beige-MD
●	413	Pewter Gray-DK	645	Beaver Gray-VY DK
≡	224	Shell Pink-VY LT	3864	Mocha Beige-LT
▲	632	Desert Sand-UL VY DK	840	Beige Brown-MD
○	407	Desert Sand-DK	3782	Mocha Brown-LT
L	451	Shell Gray-DK	645	Beaver Gray-VY DK
☆	452	Shell Gray-MD	928	Gray Green-VY LT
‡	612	Drab Brown-LT	3859	Rosewood-LT
u	762	Pearl Gray-VY LT	819	Baby Pink-LT
⌘	801	Coffee Brown-DK	898	Coffee Brown-VY DK
↘	840	Beige Brown-MD	3772	Desert Sand-VY DK
⇒	415	Pearl Gray	3072	Beaver Gray-VY LT
§	927	Gray Green-LT	3861	Cocoa-LT
⊙	3721	Shell Pink-DK	3862	Mocha Beige-DK
⊙	840	Beige Brown-MD	3032	Mocha Brown-MD
✍	645	Beaver Gray-VY DK	3022	Brown Gray-MD
●	823	Navy Blue-DK	3799	Pewter Gray-VY DK
◎	223	Shell Pink-LT	3864	Mocha Beige-LT
⌘	452	Shell Gray-MD	453	Shell Gray-LT
■	839	Beige Brown-DK	3011	Khaki Green-DK
✕	3023	Brown Gray-LT	3861	Cocoa-LT
9	224	Shell Pink-VY LT	842	Beige Brown-VY LT
⊙	452	Shell Gray-MD	644	Beige Gray-MD
♣	838	Beige Brown-VY DK	844	Beaver Brown-UL DK
☯	838	Beige Brown-VY DK	3021	Brown Gray-VY DK
⇐	415	Pearl Gray	453	Shell Gray-LT

5	950	Desert Sand-LT	3864	Mocha Beige-LT
≡	926	Gray Green-MD	3041	Antique Violet-MD
⊗	3021	Brown Gray-VY DK	3371	Black Brown
■	310	Black	938	Coffee Brown-UL DK
⌘	407	Desert Sand-DK	3863	Mocha Beige-MD
⦿	420	Hazelnut Brown-DK	832	Golden Olive
⦿	433	Brown-MD	632	Desert Sand-UL VY DK
↑	938	Coffee Brown-UL DK	3781	Mocha Brown-DK
)	950	Desert Sand-LT	3774	Desert Sand-VY LT
τ	370	Mustard-MD	3828	Hazelnut Brown
/	224	Shell Pink-VY LT	738	Tan-VY LT
∞	543	Beige Brown-UL VY LT	948	Peach-VY LT
⌘	647	Beaver Gray-MD	3041	Antique Violet-MD
//	840	Beige Brown-MD	3862	Mocha Beige-DK
✱	315	Antique Mauve-VY DK	3862	Mocha Beige-DK
⌘	422	Hazelnut Brown-LT	612	Drab Brown-LT
⌘	524	Fern Green-VY LT	3782	Mocha Brown-LT
∇	927	Gray Green-LT	3042	Antique Violet-LT
6	224	Shell Pink-VY LT	950	Desert Sand-LT
↓	300	Mahogany-VY DK	400	Mahogany-DK
4	453	Shell Gray-LT	648	Beaver Gray-LT
6	612	Drab Brown-LT	640	Beige Gray-VY DK
⦿	632	Desert Sand-UL VY DK	838	Beige Brown-VY DK
⌘	844	Beaver Brown-UL DK	3860	Cocoa
⌘	869	Hazelnut Brown-VY DK	3781	Mocha Brown-DK
♥	898	Coffee Brown-VY DK	938	Coffee Brown-UL DK
◇	3064	Desert Sand	3864	Mocha Beige-LT
△	3733	Dusty Rose	3864	Mocha Beige-LT
×	3772	Desert Sand-VY DK	3778	Terra Cotta-LT
⦿	300	Mahogany-VY DK	632	Desert Sand-UL VY DK
:	453	Shell Gray-LT	950	Desert Sand-LT
⌘	729	Old Gold-MD	3828	Hazelnut Brown
△	738	Tan-VY LT	950	Desert Sand-LT
⌘	841	Beige Brown-LT	3861	Cocoa-LT
#	3859	Rosewood-LT	3864	Mocha Beige-LT
β	224	Shell Pink-VY LT	613	Drab Brown-VY LT
	372	Mustard-LT	3864	Mocha Beige-LT
♡	453	Shell Gray-LT	822	Beige Gray-LT
⌘	647	Beaver Gray-MD	841	Beige Brown-LT
ι	353	Peach	543	Beige Brown-UL VY LT
c	453	Shell Gray-LT	928	Gray Green-VY LT
=	543	Beige Brown-UL VY LT	648	Beaver Gray-LT
+	632	Desert Sand-UL VY DK	3781	Mocha Brown-DK
⦿	829	Golden Olive-VY DK	938	Coffee Brown-UL DK
◀	414	Steel Gray-DK	646	Beaver Gray-DK
▼	535	Ash Gray-VY LT	3041	Antique Violet-MD
▶	632	Desert Sand-UL VY DK	975	Golden Brown-DK
⌘	451	Shell Gray-DK	3022	Brown Gray-MD
◇	453	Shell Gray-LT	3774	Desert Sand-VY LT
2	927	Gray Green-LT	3023	Brown Gray-LT
†	801	Coffee Brown-DK	829	Golden Olive-VY DK
h	927	Gray Green-LT	452	Shell Gray-MD
::	224	Shell Pink-VY LT	3064	Desert Sand

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	5	1	4	1	4	1
224	Shell Pink-VY LT	375	147	357	140	321	126
300	Mahogany-VY DK	2668	1050	2541	1000	2287	900
310	Black	1412	555	1345	529	1210	476
315	Antique Mauve-VY DK	36	14	34	13	31	12
317	Pewter Gray	1	1	1	1	1	1
318	Steel Gray-LT	26	10	24	9	22	8
336	Navy Blue	0	1	0	1	0	1
353	Peach	356	140	339	133	305	120
356	Terra Cotta-MD	0	1	0	1	0	1
370	Mustard-MD	109	42	104	40	93	36
372	Mustard-LT	24	9	23	9	20	7
400	Mahogany-DK	12	4	12	4	11	4
407	Desert Sand-DK	221	87	211	83	190	74
413	Pewter Gray-DK	36	14	35	13	31	12
414	Steel Gray-DK	378	148	360	141	324	127
415	Pearl Gray	176	69	167	65	151	59
420	Hazelnut Brown-DK	208	81	199	78	179	70
422	Hazelnut Brown-LT	64	25	61	24	55	21
433	Brown-MD	1031	405	982	386	884	348
434	Brown-LT	8	3	7	2	7	2
436	Tan	13	5	12	4	11	4
437	Tan-LT	15	5	14	5	12	4
451	Shell Gray-DK	1015	399	966	380	870	342
452	Shell Gray-MD	1149	452	1095	431	985	387
453	Shell Gray-LT	1203	473	1146	451	1031	405
524	Fern Green-VY LT	49	19	47	18	42	16
535	Ash Gray-VY LT	59	23	56	22	50	19
543	Beige Brown-UL VY LT	949	373	904	355	814	320
610	Drab Brown-DK	296	116	281	110	253	99
611	Drab Brown	61	24	58	22	52	20
612	Drab Brown-LT	178	70	170	66	153	60
613	Drab Brown-VY LT	101	39	96	37	86	33
632	Desert Sand-UL VY DK	1193	469	1137	447	1023	402
640	Beige Gray-VY DK	394	155	375	147	337	132
642	Beige Gray-DK	40	15	38	14	35	13
644	Beige Gray-MD	80	31	77	30	69	27
645	Beaver Gray-VY DK	1340	527	1276	502	1148	451
646	Beaver Gray-DK	406	159	386	151	348	137
647	Beaver Gray-MD	817	321	778	306	700	275
648	Beaver Gray-LT	319	125	303	119	273	107
680	Old Gold-DK	6	2	6	2	5	1
712	Cream	261	102	249	98	224	88
729	Old Gold-MD	5	1	5	1	5	1
734	Olive Green-LT	6	2	5	1	5	1
738	Tan-VY LT	105	41	100	39	90	35
739	Tan-UL VY LT	20	7	19	7	17	6
754	Peach-LT	14	5	14	5	12	4
762	Pearl Gray-VY LT	588	231	560	220	504	198
801	Coffee Brown-DK	2051	807	1953	768	1758	692
819	Baby Pink-LT	53	20	50	19	45	17
822	Beige Gray-LT	303	119	288	113	259	101
823	Navy Blue-DK	0	1	0	1	0	1

829	Golden Olive-VY DK	331	130	315	124	283	111
830	Golden Olive-DK	33	12	32	12	29	11
831	Golden Olive-MD	7	2	6	2	6	2
832	Golden Olive	6	2	5	1	5	1
838	Beige Brown-VY DK	493	194	470	185	423	166
839	Beige Brown-DK	573	225	546	214	491	193
840	Beige Brown-MD	206	81	196	77	176	69
841	Beige Brown-LT	239	94	227	89	204	80
842	Beige Brown-VY LT	276	108	263	103	236	92
844	Beaver Brown-UL DK	583	229	555	218	500	196
869	Hazelnut Brown-VY DK	312	122	298	117	268	105
898	Coffee Brown-VY DK	3157	1242	3007	1183	2706	1065
926	Gray Green-MD	31	12	29	11	26	10
927	Gray Green-LT	1069	420	1018	400	916	360
928	Gray Green-VY LT	756	297	720	283	648	255
930	Antique Blue-DK	1	1	1	1	1	1
938	Coffee Brown-UL DK	11540	4543	10990	4326	9891	3894
945	Tawny	6	2	6	2	5	1
948	Peach-VY LT	505	198	481	189	433	170
950	Desert Sand-LT	785	309	747	294	672	264
975	Golden Brown-DK	943	371	898	353	808	318
3011	Khaki Green-DK	49	19	47	18	42	16
3021	Brown Gray-VY DK	509	200	485	190	436	171
3022	Brown Gray-MD	350	137	333	131	300	118
3023	Brown Gray-LT	405	159	385	151	347	136
3024	Brown Gray-VY LT	425	167	405	159	364	143
3031	Mocha Brown-VY DK	385	151	366	144	330	129
3032	Mocha Brown-MD	243	95	231	90	208	81
3033	Mocha Brown-VY LT	11	4	10	3	9	3
3041	Antique Violet-MD	217	85	207	81	186	73
3042	Antique Violet-LT	56	22	54	21	48	18
3045	Yellow Beige-DK	49	19	46	18	42	16
3046	Yellow Beige-MD	7	2	7	2	6	2
3064	Desert Sand	47	18	45	17	41	16
3072	Beaver Gray-VY LT	713	280	679	267	611	240
3371	Black Brown	3076	1211	2929	1153	2636	1037
3721	Shell Pink-DK	4	1	4	1	3	1
3733	Dusty Rose	5	1	5	1	4	1
3743	Antique Violet-VY LT	207	81	197	77	177	69
3756	Baby Blue-UL VY LT	7	2	7	2	6	2
3772	Desert Sand-VY DK	124	48	118	46	106	41
3774	Desert Sand-VY LT	428	168	407	160	367	144
3778	Terra Cotta-LT	3	1	3	1	2	1
3781	Mocha Brown-DK	781	307	743	292	669	263
3782	Mocha Brown-LT	203	79	193	75	174	68
3787	Brown Gray-DK	694	273	661	260	595	234
3790	Beige Gray-UL DK	243	95	231	90	208	81
3799	Pewter Gray-VY DK	0	1	0	1	0	1
3809	Turquoise-VY DK	0	1	0	1	0	1
3828	Hazelnut Brown	90	35	86	33	77	30
3858	Rosewood-MD	89	35	84	33	76	29
3859	Rosewood-LT	61	24	58	22	52	20
3860	Cocoa	438	172	417	164	375	147
3861	Cocoa-LT	691	272	658	259	592	233
3862	Mocha Beige-DK	236	92	224	88	202	79
3863	Mocha Beige-MD	143	56	136	53	122	48
3864	Mocha Beige-LT	441	173	420	165	378	148
3866	Mocha Brown-UL VY LT	617	242	587	231	529	208

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	7	2	6	2	3	1
224	Shell Pink-VY LT	578	227	482	189	241	95
300	Mahogany-VY DK	4117	1620	3431	1350	1715	675
310	Black	2178	857	1815	714	908	357
315	Antique Mauve-VY DK	56	22	47	18	23	9
317	Pewter Gray	2	2	2	2	1	1
318	Steel Gray-LT	40	14	33	12	17	6
336	Navy Blue	0	2	0	2	0	1
353	Peach	549	216	458	180	229	90
356	Terra Cotta-MD	0	2	0	2	0	1
370	Mustard-MD	167	65	140	54	70	27
372	Mustard-LT	36	13	30	11	15	5
400	Mahogany-DK	20	7	17	6	8	3
407	Desert Sand-DK	342	133	285	111	143	56
413	Pewter Gray-DK	56	22	47	18	23	9
414	Steel Gray-DK	583	229	486	191	243	95
415	Pearl Gray	272	106	227	89	113	44
420	Hazelnut Brown-DK	322	126	269	105	134	53
422	Hazelnut Brown-LT	99	38	83	32	41	16
433	Brown-MD	1591	626	1326	522	663	261
434	Brown-LT	13	4	11	3	5	2
436	Tan	20	7	17	6	8	3
437	Tan-LT	22	7	18	6	9	3
451	Shell Gray-DK	1566	616	1305	513	653	257
452	Shell Gray-MD	1773	697	1478	581	739	290
453	Shell Gray-LT	1856	729	1547	608	773	304
524	Fern Green-VY LT	76	29	63	24	32	12
535	Ash Gray-VY LT	90	34	75	29	38	14
543	Beige Brown-UL VY LT	1465	576	1221	480	611	240
610	Drab Brown-DK	455	178	380	149	190	74
611	Drab Brown	94	36	78	30	39	15
612	Drab Brown-LT	275	108	230	90	115	45
613	Drab Brown-VY LT	155	59	129	50	65	25
632	Desert Sand-UL VY DK	1841	724	1535	603	767	302
640	Beige Gray-VY DK	607	238	506	198	253	99
642	Beige Gray-DK	63	23	53	20	26	10
644	Beige Gray-MD	124	49	104	41	52	20
645	Beaver Gray-VY DK	2066	812	1722	677	861	338
646	Beaver Gray-DK	626	247	522	206	261	103
647	Beaver Gray-MD	1260	495	1050	413	525	206
648	Beaver Gray-LT	491	193	410	161	205	80
680	Old Gold-DK	9	2	8	2	4	1
712	Cream	403	158	336	132	168	66
729	Old Gold-MD	9	2	8	2	4	1
734	Olive Green-LT	9	2	8	2	4	1
738	Tan-VY LT	162	63	135	53	68	26
739	Tan-UL VY LT	31	11	26	9	13	5
754	Peach-LT	22	7	18	6	9	3
762	Pearl Gray-VY LT	907	356	756	297	378	149
801	Coffee Brown-DK	3164	1246	2637	1038	1319	519
819	Baby Pink-LT	81	31	68	26	34	13
822	Beige Gray-LT	466	182	389	152	194	76
823	Navy Blue-DK	0	2	0	2	0	1

829	Golden Olive-VY DK	509	200	425	167	212	83
830	Golden Olive-DK	52	20	44	17	22	8
831	Golden Olive-MD	11	4	9	3	5	2
832	Golden Olive	9	2	8	2	4	1
838	Beige Brown-VY DK	761	299	635	249	317	125
839	Beige Brown-DK	884	347	737	290	368	145
840	Beige Brown-MD	317	124	264	104	132	52
841	Beige Brown-LT	367	144	306	120	153	60
842	Beige Brown-VY LT	425	166	354	138	177	69
844	Beaver Brown-UL DK	900	353	750	294	375	147
869	Hazelnut Brown-VY DK	482	189	402	158	201	79
898	Coffee Brown-VY DK	4871	1917	4059	1598	2030	799
926	Gray Green-MD	47	18	39	15	20	8
927	Gray Green-LT	1649	648	1374	540	687	270
928	Gray Green-VY LT	1166	459	972	383	486	191
930	Antique Blue-DK	2	2	2	2	1	1
938	Coffee Brown-UL DK	17804	7009	14837	5841	7418	2921
945	Tawny	9	2	8	2	4	1
948	Peach-VY LT	779	306	650	255	325	128
950	Desert Sand-LT	1210	475	1008	396	504	198
975	Golden Brown-DK	1454	572	1212	477	606	239
3011	Khaki Green-DK	76	29	63	24	32	12
3021	Brown Gray-VY DK	785	308	654	257	327	128
3022	Brown Gray-MD	540	212	450	177	225	89
3023	Brown Gray-LT	625	245	521	204	260	102
3024	Brown Gray-VY LT	655	257	546	215	273	107
3031	Mocha Brown-VY DK	594	232	495	194	248	97
3032	Mocha Brown-MD	374	146	312	122	156	61
3033	Mocha Brown-VY LT	16	5	14	5	7	2
3041	Antique Violet-MD	335	131	279	110	140	55
3042	Antique Violet-LT	86	32	72	27	36	14
3045	Yellow Beige-DK	76	29	63	24	32	12
3046	Yellow Beige-MD	11	4	9	3	5	2
3064	Desert Sand	74	29	62	24	31	12
3072	Beaver Gray-VY LT	1100	432	917	360	458	180
3371	Black Brown	4745	1867	3954	1556	1977	778
3721	Shell Pink-DK	5	2	5	2	2	1
3733	Dusty Rose	7	2	6	2	3	1
3743	Antique Violet-VY LT	319	124	266	104	133	52
3756	Baby Blue-UL VY LT	11	4	9	3	5	2
3772	Desert Sand-VY DK	191	74	159	62	80	31
3774	Desert Sand-VY LT	661	259	551	216	275	108
3778	Terra Cotta-LT	4	2	3	2	2	1
3781	Mocha Brown-DK	1204	473	1004	395	502	197
3782	Mocha Brown-LT	313	122	261	102	131	51
3787	Brown Gray-DK	1071	421	893	351	446	176
3790	Beige Gray-UL DK	374	146	312	122	156	61
3799	Pewter Gray-VY DK	0	2	0	2	0	1
3809	Turquoise-VY DK	0	2	0	2	0	1
3828	Hazelnut Brown	139	54	116	45	58	23
3858	Rosewood-MD	137	52	114	44	57	22
3859	Rosewood-LT	94	36	78	30	39	15
3860	Cocoa	675	265	563	221	281	110
3861	Cocoa-LT	1066	419	888	350	444	175
3862	Mocha Beige-DK	364	142	303	119	152	59
3863	Mocha Beige-MD	220	86	183	72	92	36
3864	Mocha Beige-LT	680	266	567	222	284	111
3866	Mocha Brown-UL VY LT	952	374	794	312	397	156

Extended thread usage table.

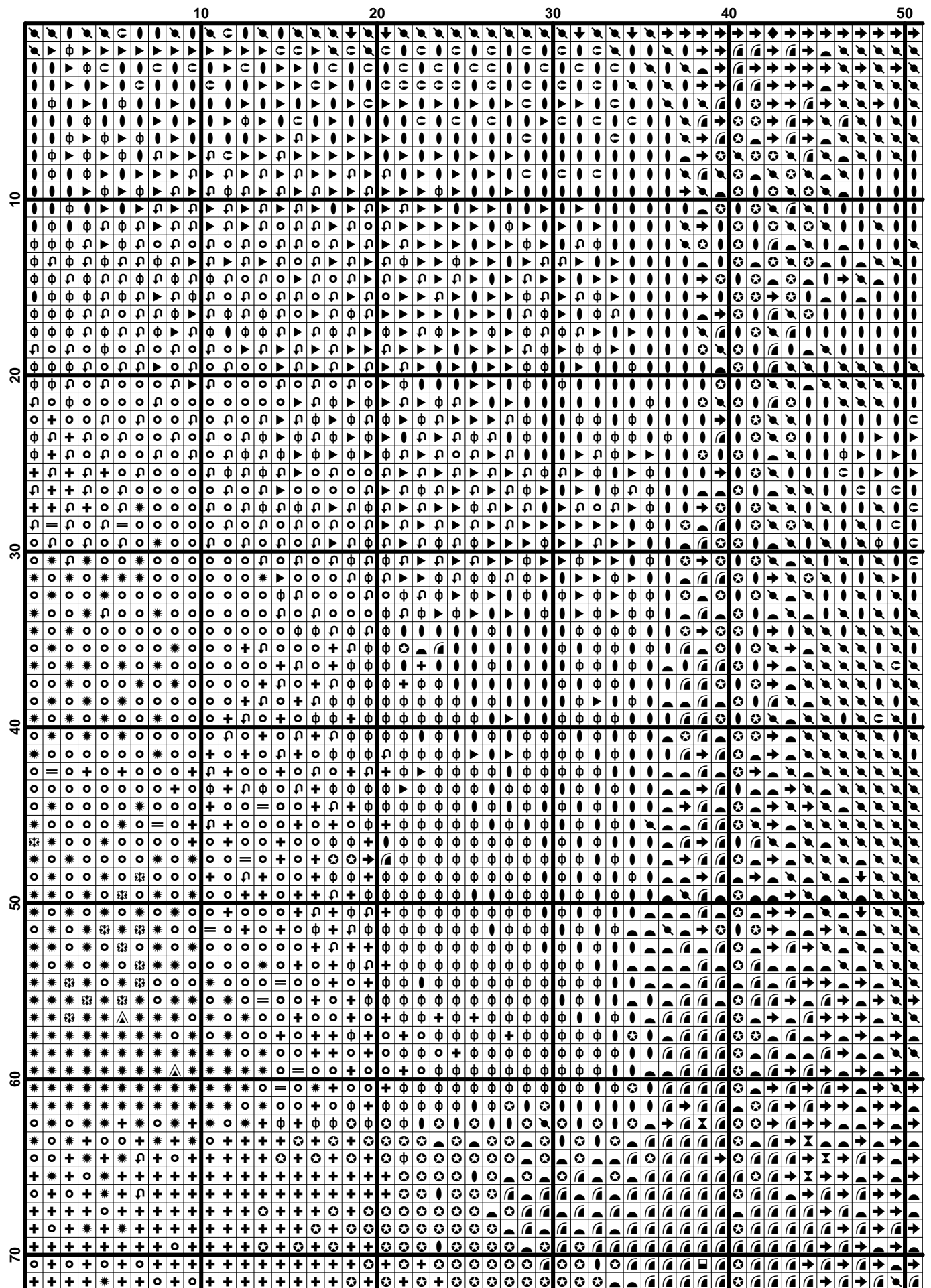
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		25		26		27	
223	Shell Pink-LT	3	1	3	1	3	1
224	Shell Pink-VY LT	231	91	222	87	214	84
300	Mahogany-VY DK	1647	648	1583	623	1525	600
310	Black	871	343	838	330	807	317
315	Antique Mauve-VY DK	22	9	21	8	21	8
317	Pewter Gray	1	1	1	1	1	1
318	Steel Gray-LT	16	6	15	6	15	5
336	Navy Blue	0	1	0	1	0	1
353	Peach	220	86	211	83	203	80
356	Terra Cotta-MD	0	1	0	1	0	1
370	Mustard-MD	67	26	64	25	62	24
372	Mustard-LT	14	5	14	5	13	5
400	Mahogany-DK	8	3	8	3	7	3
407	Desert Sand-DK	137	53	132	51	127	49
413	Pewter Gray-DK	22	9	21	8	21	8
414	Steel Gray-DK	233	91	224	88	216	85
415	Pearl Gray	109	42	105	41	101	39
420	Hazelnut Brown-DK	129	50	124	48	119	47
422	Hazelnut Brown-LT	40	15	38	15	37	14
433	Brown-MD	636	251	612	241	589	232
434	Brown-LT	5	1	5	1	5	1
436	Tan	8	3	8	3	7	3
437	Tan-LT	9	3	8	3	8	3
451	Shell Gray-DK	626	246	602	237	580	228
452	Shell Gray-MD	709	279	682	268	657	258
453	Shell Gray-LT	742	292	714	280	687	270
524	Fern Green-VY LT	30	12	29	11	28	11
535	Ash Gray-VY LT	36	14	35	13	33	13
543	Beige Brown-UL VY LT	586	230	564	222	543	213
610	Drab Brown-DK	182	71	175	69	169	66
611	Drab Brown	37	14	36	14	35	13
612	Drab Brown-LT	110	43	106	42	102	40
613	Drab Brown-VY LT	62	24	60	23	57	22
632	Desert Sand-UL VY DK	737	289	708	278	682	268
640	Beige Gray-VY DK	243	95	233	91	225	88
642	Beige Gray-DK	25	9	24	9	23	9
644	Beige Gray-MD	50	19	48	19	46	18
645	Beaver Gray-VY DK	827	325	795	312	765	301
646	Beaver Gray-DK	251	99	241	95	232	91
647	Beaver Gray-MD	504	198	485	190	467	183
648	Beaver Gray-LT	197	77	189	74	182	71
680	Old Gold-DK	4	1	3	1	3	1
712	Cream	161	63	155	61	149	59
729	Old Gold-MD	4	1	3	1	3	1
734	Olive Green-LT	4	1	3	1	3	1
738	Tan-VY LT	65	25	62	24	60	23
739	Tan-UL VY LT	12	4	12	4	11	4
754	Peach-LT	9	3	8	3	8	3
762	Pearl Gray-VY LT	363	143	349	137	336	132
801	Coffee Brown-DK	1266	498	1217	479	1172	461
819	Baby Pink-LT	32	12	31	12	30	11
822	Beige Gray-LT	186	73	179	70	173	67
823	Navy Blue-DK	0	1	0	1	0	1

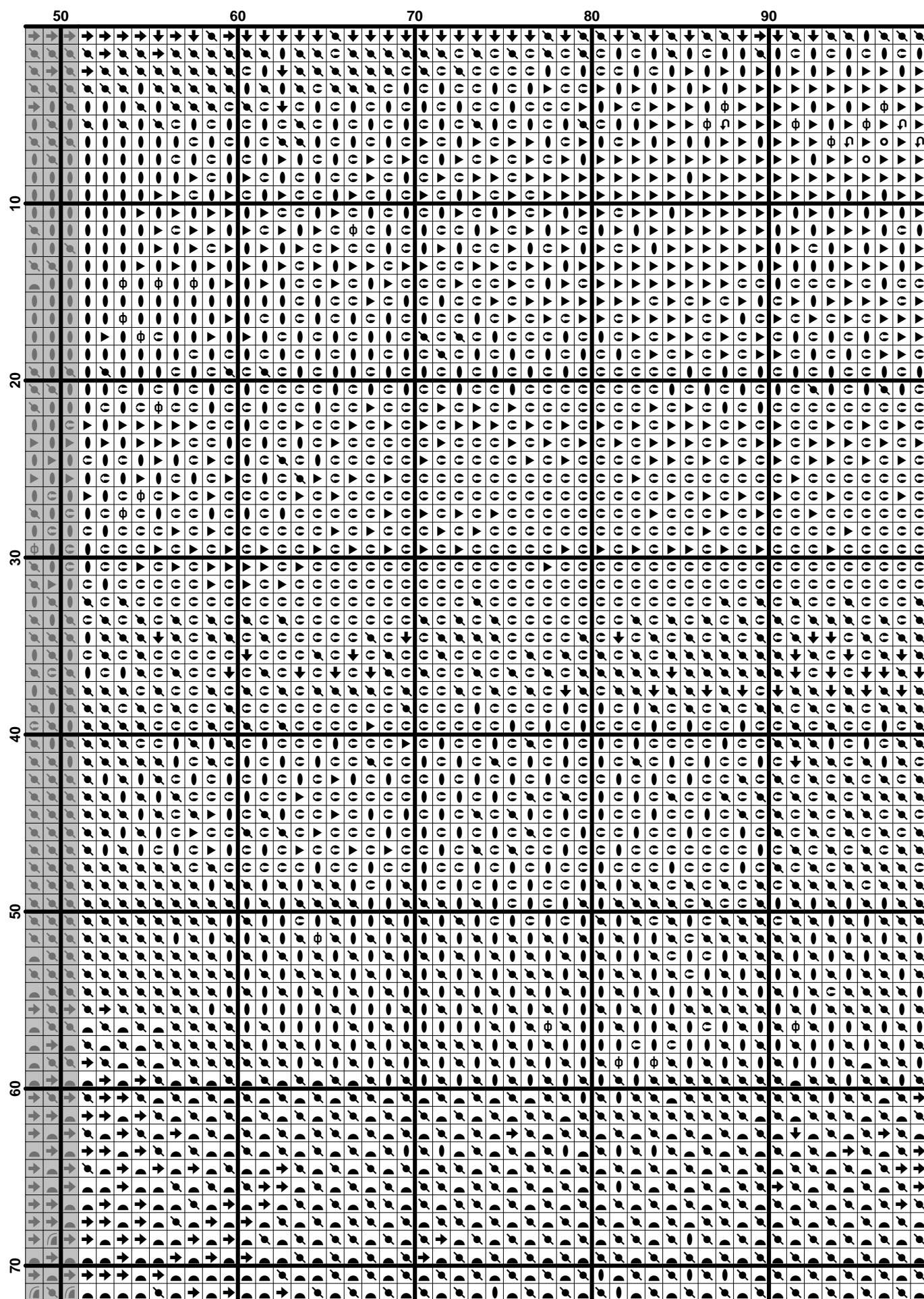
829	Golden Olive-VY DK	204	80	196	77	189	74
830	Golden Olive-DK	21	8	20	8	19	7
831	Golden Olive-MD	4	1	4	1	4	1
832	Golden Olive	4	1	3	1	3	1
838	Beige Brown-VY DK	305	120	293	115	282	111
839	Beige Brown-DK	354	139	340	134	327	129
840	Beige Brown-MD	127	50	122	48	117	46
841	Beige Brown-LT	147	58	141	55	136	53
842	Beige Brown-VY LT	170	66	163	64	157	61
844	Beaver Brown-UL DK	360	141	346	136	333	131
869	Hazelnut Brown-VY DK	193	76	186	73	179	70
898	Coffee Brown-VY DK	1948	767	1873	737	1804	710
926	Gray Green-MD	19	7	18	7	17	7
927	Gray Green-LT	660	259	634	249	611	240
928	Gray Green-VY LT	467	184	449	177	432	170
930	Antique Blue-DK	1	1	1	1	1	1
938	Coffee Brown-UL DK	7122	2804	6848	2696	6594	2596
945	Tawny	4	1	3	1	3	1
948	Peach-VY LT	312	122	300	118	289	113
950	Desert Sand-LT	484	190	465	183	448	176
975	Golden Brown-DK	582	229	559	220	539	212
3011	Khaki Green-DK	30	12	29	11	28	11
3021	Brown Gray-VY DK	314	123	302	118	291	114
3022	Brown Gray-MD	216	85	208	82	200	79
3023	Brown Gray-LT	250	98	240	94	231	91
3024	Brown Gray-VY LT	262	103	252	99	243	95
3031	Mocha Brown-VY DK	238	93	228	89	220	86
3032	Mocha Brown-MD	150	58	144	56	139	54
3033	Mocha Brown-VY LT	6	2	6	2	6	2
3041	Antique Violet-MD	134	53	129	51	124	49
3042	Antique Violet-LT	35	13	33	12	32	12
3045	Yellow Beige-DK	30	12	29	11	28	11
3046	Yellow Beige-MD	4	1	4	1	4	1
3064	Desert Sand	30	12	28	11	27	11
3072	Beaver Gray-VY LT	440	173	423	166	407	160
3371	Black Brown	1898	747	1825	718	1757	691
3721	Shell Pink-DK	2	1	2	1	2	1
3733	Dusty Rose	3	1	3	1	3	1
3743	Antique Violet-VY LT	127	50	123	48	118	46
3756	Baby Blue-UL VY LT	4	1	4	1	4	1
3772	Desert Sand-VY DK	76	30	73	28	71	27
3774	Desert Sand-VY LT	264	104	254	100	245	96
3778	Terra Cotta-LT	1	1	1	1	1	1
3781	Mocha Brown-DK	482	189	463	182	446	175
3782	Mocha Brown-LT	125	49	120	47	116	45
3787	Brown Gray-DK	428	168	412	162	397	156
3790	Beige Gray-UL DK	150	58	144	56	139	54
3799	Pewter Gray-VY DK	0	1	0	1	0	1
3809	Turquoise-VY DK	0	1	0	1	0	1
3828	Hazelnut Brown	55	22	53	21	51	20
3858	Rosewood-MD	55	21	53	20	51	19
3859	Rosewood-LT	37	14	36	14	35	13
3860	Cocoa	270	106	260	102	250	98
3861	Cocoa-LT	426	168	410	161	395	155
3862	Mocha Beige-DK	145	57	140	55	135	53
3863	Mocha Beige-MD	88	35	84	33	81	32
3864	Mocha Beige-LT	272	107	262	102	252	99
3866	Mocha Brown-UL VY LT	381	150	366	144	353	139

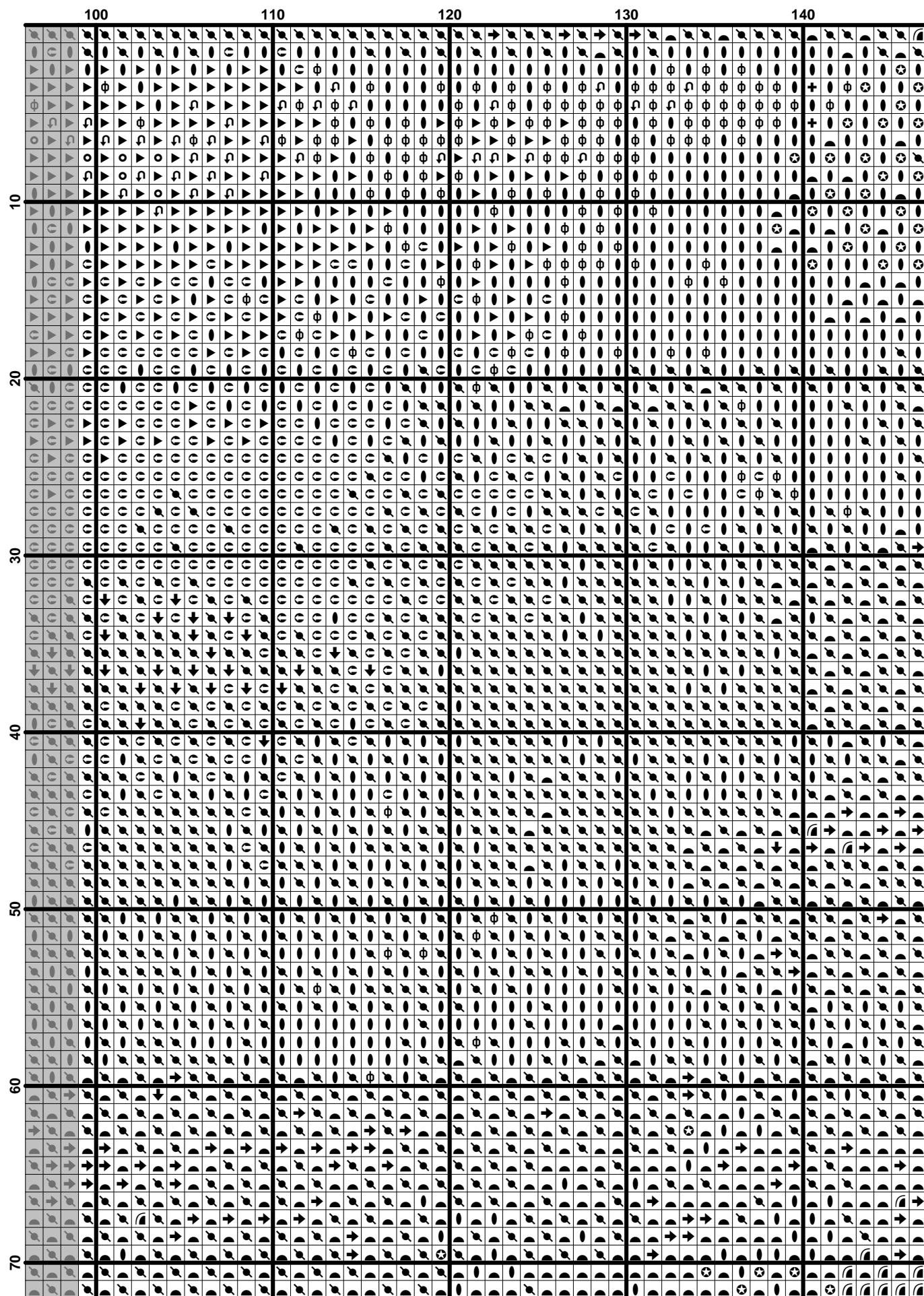
Extended thread usage table.

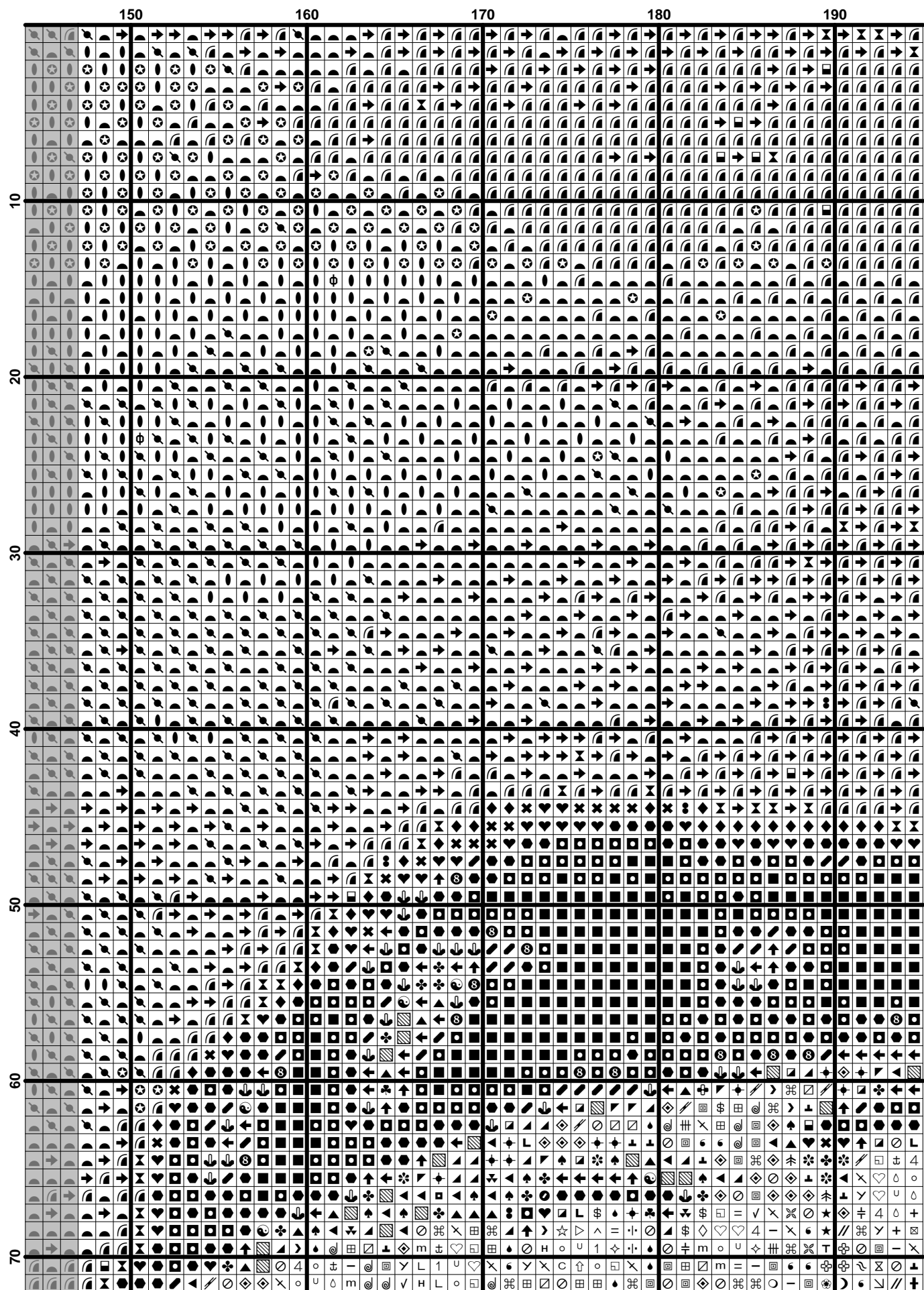
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
223	Shell Pink-LT	3	1	2	1	2	1
224	Shell Pink-VY LT	206	81	193	76	181	71
300	Mahogany-VY DK	1470	579	1372	540	1286	506
310	Black	778	306	726	286	681	268
315	Antique Mauve-VY DK	20	8	19	7	17	7
317	Pewter Gray	1	1	1	1	1	1
318	Steel Gray-LT	14	5	13	5	12	5
336	Navy Blue	0	1	0	1	0	1
353	Peach	196	77	183	72	172	68
356	Terra Cotta-MD	0	1	0	1	0	1
370	Mustard-MD	60	23	56	22	52	20
372	Mustard-LT	13	5	12	4	11	4
400	Mahogany-DK	7	3	7	2	6	2
407	Desert Sand-DK	122	48	114	44	107	42
413	Pewter Gray-DK	20	8	19	7	17	7
414	Steel Gray-DK	208	82	194	76	182	71
415	Pearl Gray	97	38	91	35	85	33
420	Hazelnut Brown-DK	115	45	107	42	101	39
422	Hazelnut Brown-LT	35	14	33	13	31	12
433	Brown-MD	568	224	530	209	497	196
434	Brown-LT	5	1	4	1	4	1
436	Tan	7	3	7	2	6	2
437	Tan-LT	8	3	7	2	7	2
451	Shell Gray-DK	559	220	522	205	489	192
452	Shell Gray-MD	633	249	591	232	554	218
453	Shell Gray-LT	663	260	619	243	580	228
524	Fern Green-VY LT	27	10	25	10	24	9
535	Ash Gray-VY LT	32	12	30	11	28	11
543	Beige Brown-UL VY LT	523	206	488	192	458	180
610	Drab Brown-DK	163	64	152	59	142	56
611	Drab Brown	33	13	31	12	29	11
612	Drab Brown-LT	98	39	92	36	86	34
613	Drab Brown-VY LT	55	21	52	20	48	19
632	Desert Sand-UL VY DK	658	258	614	241	575	226
640	Beige Gray-VY DK	217	85	202	79	190	74
642	Beige Gray-DK	23	8	21	8	20	7
644	Beige Gray-MD	44	17	41	16	39	15
645	Beaver Gray-VY DK	738	290	689	271	646	254
646	Beaver Gray-DK	224	88	209	82	196	77
647	Beaver Gray-MD	450	177	420	165	394	155
648	Beaver Gray-LT	176	69	164	64	154	60
680	Old Gold-DK	3	1	3	1	3	1
712	Cream	144	57	134	53	126	50
729	Old Gold-MD	3	1	3	1	3	1
734	Olive Green-LT	3	1	3	1	3	1
738	Tan-VY LT	58	23	54	21	51	20
739	Tan-UL VY LT	11	4	10	4	10	3
754	Peach-LT	8	3	7	2	7	2
762	Pearl Gray-VY LT	324	127	302	119	284	111
801	Coffee Brown-DK	1130	445	1055	415	989	389
819	Baby Pink-LT	29	11	27	10	25	10
822	Beige Gray-LT	167	65	155	61	146	57
823	Navy Blue-DK	0	1	0	1	0	1

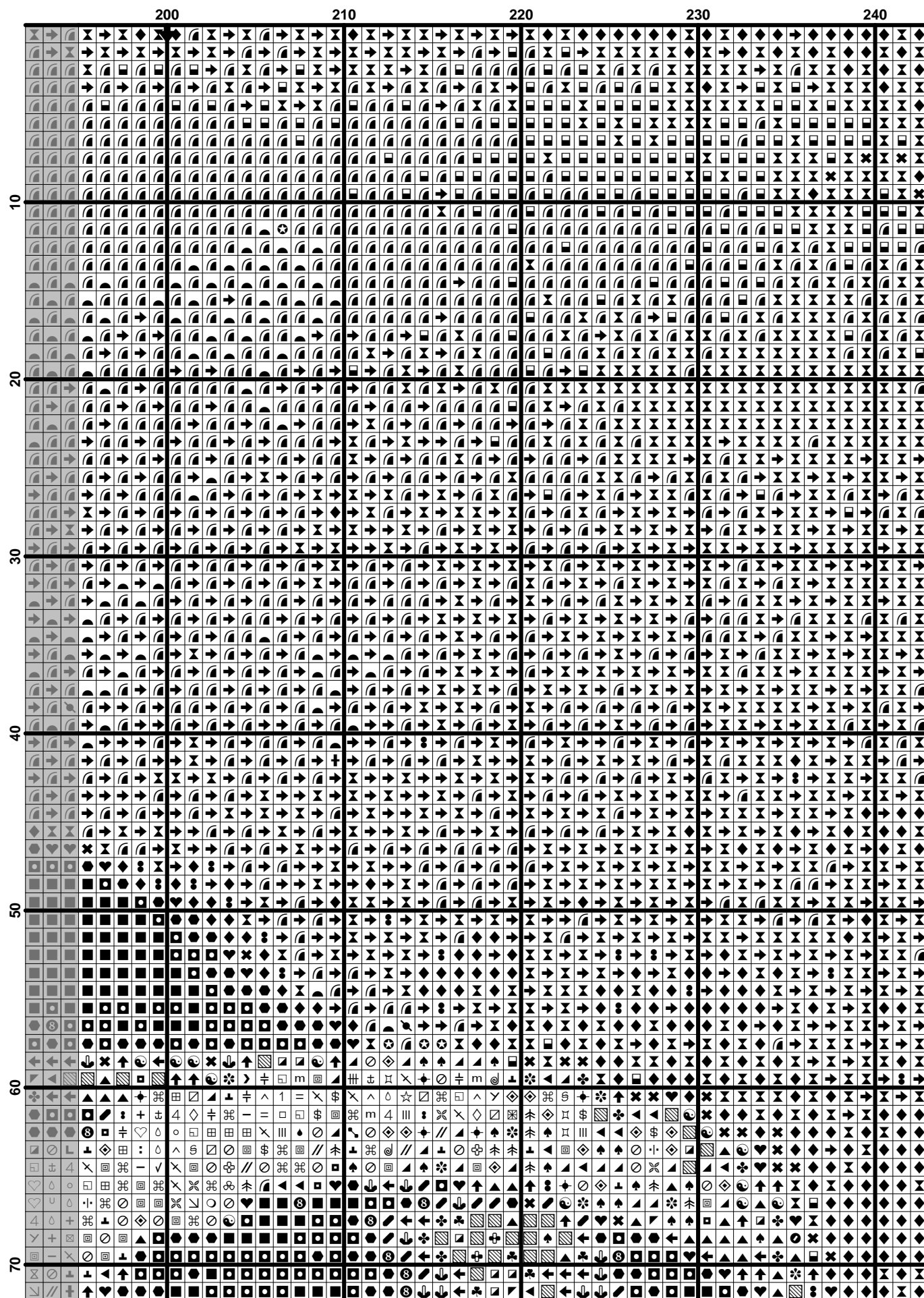
829	Golden Olive-VY DK	182	71	170	67	159	62
830	Golden Olive-DK	19	7	17	7	16	6
831	Golden Olive-MD	4	1	4	1	3	1
832	Golden Olive	3	1	3	1	3	1
838	Beige Brown-VY DK	272	107	254	100	238	93
839	Beige Brown-DK	316	124	295	116	276	109
840	Beige Brown-MD	113	44	106	41	99	39
841	Beige Brown-LT	131	51	122	48	115	45
842	Beige Brown-VY LT	152	59	142	55	133	52
844	Beaver Brown-UL DK	321	126	300	118	281	110
869	Hazelnut Brown-VY DK	172	68	161	63	151	59
898	Coffee Brown-VY DK	1740	685	1624	639	1522	599
926	Gray Green-MD	17	6	16	6	15	6
927	Gray Green-LT	589	231	550	216	515	203
928	Gray Green-VY LT	417	164	389	153	365	143
930	Antique Blue-DK	1	1	1	1	1	1
938	Coffee Brown-UL DK	6359	2503	5935	2336	5564	2190
945	Tawny	3	1	3	1	3	1
948	Peach-VY LT	278	109	260	102	244	96
950	Desert Sand-LT	432	170	403	158	378	149
975	Golden Brown-DK	519	204	485	191	455	179
3011	Khaki Green-DK	27	10	25	10	24	9
3021	Brown Gray-VY DK	280	110	262	103	245	96
3022	Brown Gray-MD	193	76	180	71	169	66
3023	Brown Gray-LT	223	87	208	82	195	77
3024	Brown Gray-VY LT	234	92	218	86	205	80
3031	Mocha Brown-VY DK	212	83	198	77	186	73
3032	Mocha Brown-MD	134	52	125	49	117	46
3033	Mocha Brown-VY LT	6	2	5	2	5	2
3041	Antique Violet-MD	120	47	112	44	105	41
3042	Antique Violet-LT	31	12	29	11	27	10
3045	Yellow Beige-DK	27	10	25	10	24	9
3046	Yellow Beige-MD	4	1	4	1	3	1
3064	Desert Sand	26	10	25	10	23	9
3072	Beaver Gray-VY LT	393	154	367	144	344	135
3371	Black Brown	1695	667	1582	622	1483	583
3721	Shell Pink-DK	2	1	2	1	2	1
3733	Dusty Rose	3	1	2	1	2	1
3743	Antique Violet-VY LT	114	44	106	41	100	39
3756	Baby Blue-UL VY LT	4	1	4	1	3	1
3772	Desert Sand-VY DK	68	26	64	25	60	23
3774	Desert Sand-VY LT	236	93	220	86	206	81
3778	Terra Cotta-LT	1	1	1	1	1	1
3781	Mocha Brown-DK	430	169	401	158	376	148
3782	Mocha Brown-LT	112	44	104	41	98	38
3787	Brown Gray-DK	383	150	357	140	335	132
3790	Beige Gray-UL DK	134	52	125	49	117	46
3799	Pewter Gray-VY DK	0	1	0	1	0	1
3809	Turquoise-VY DK	0	1	0	1	0	1
3828	Hazelnut Brown	50	19	46	18	43	17
3858	Rosewood-MD	49	19	46	17	43	16
3859	Rosewood-LT	33	13	31	12	29	11
3860	Cocoa	241	95	225	88	211	83
3861	Cocoa-LT	381	150	355	140	333	131
3862	Mocha Beige-DK	130	51	121	47	114	44
3863	Mocha Beige-MD	78	31	73	29	69	27
3864	Mocha Beige-LT	243	95	227	89	213	83
3866	Mocha Brown-UL VY LT	340	134	317	125	298	117

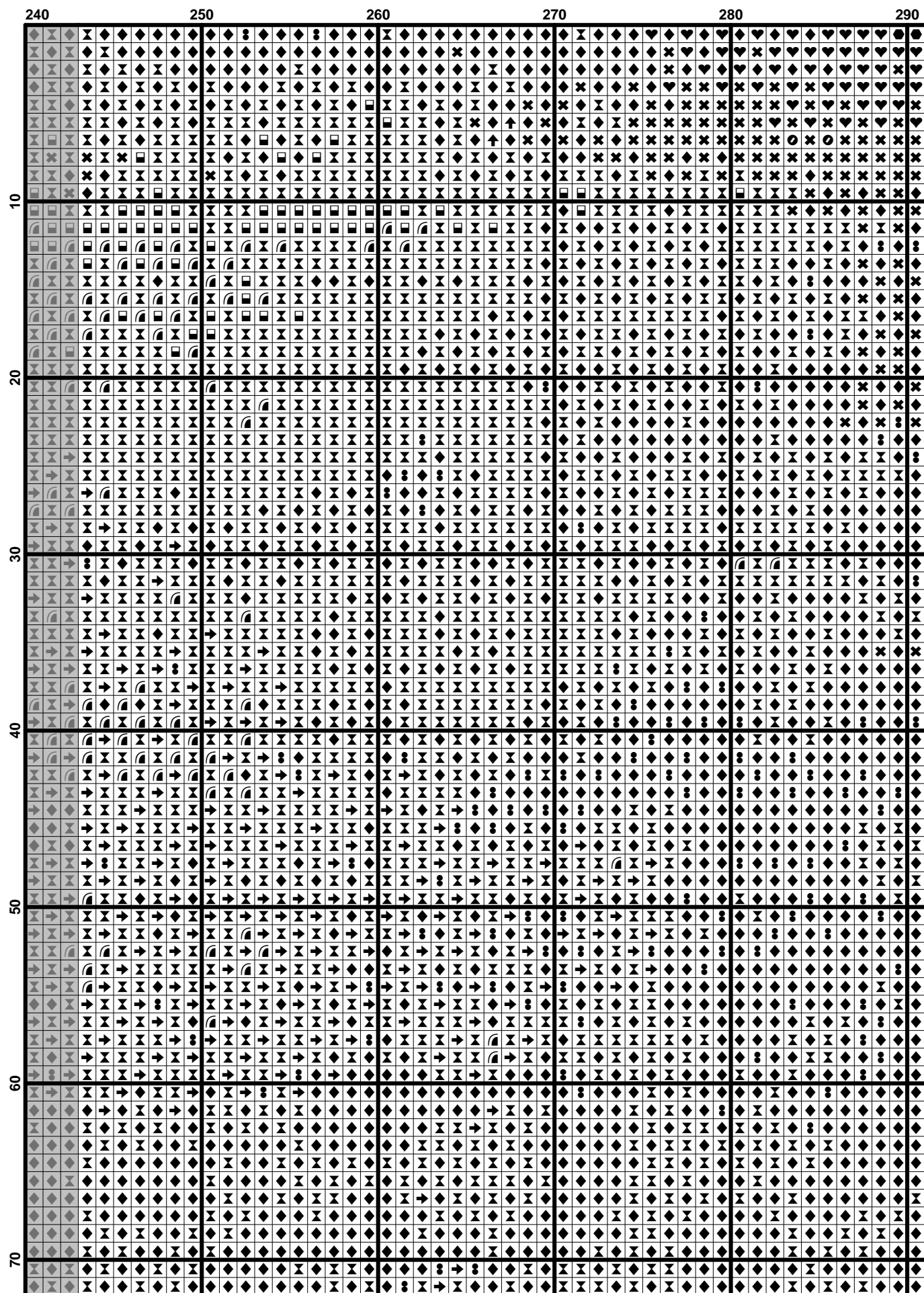


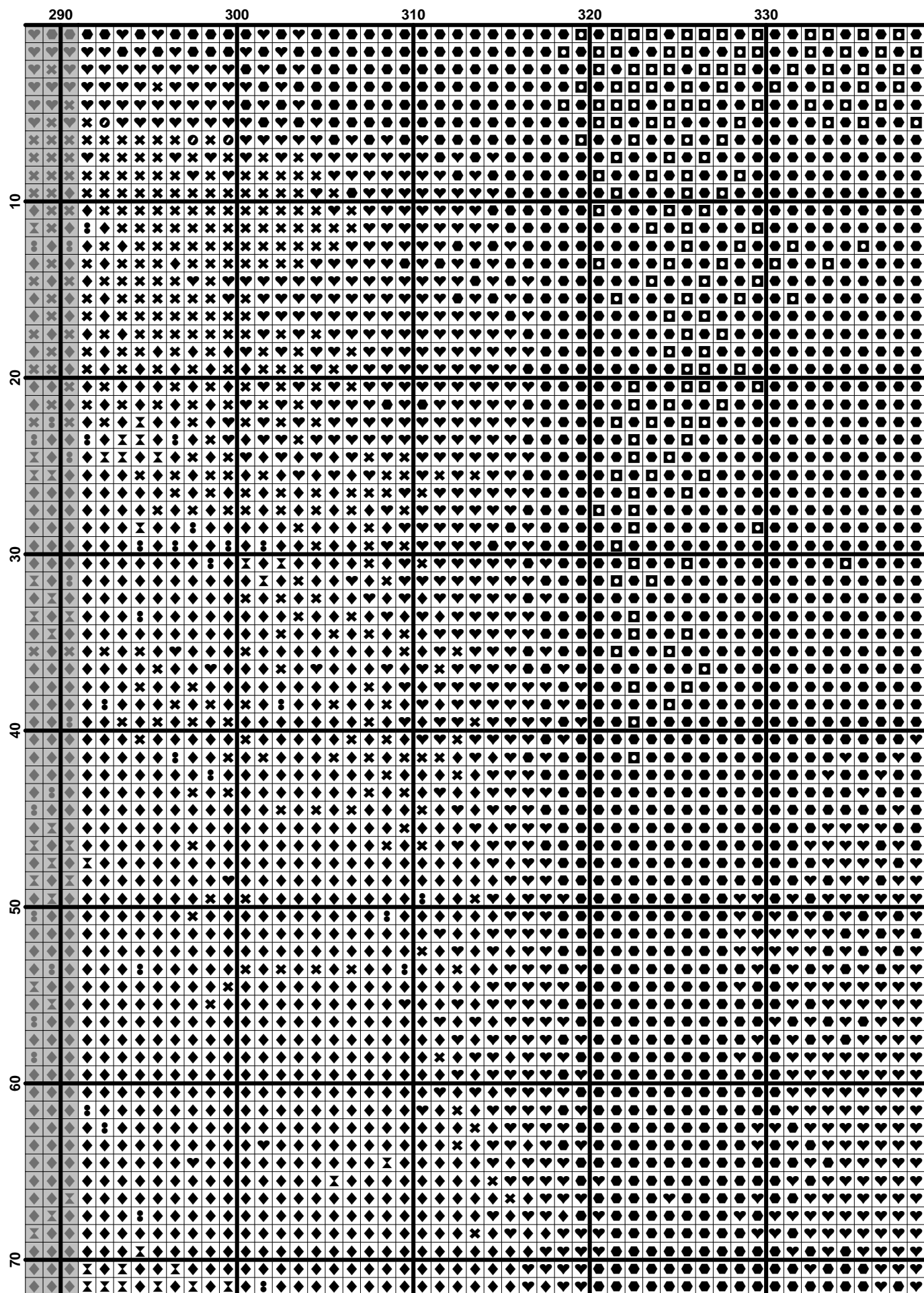


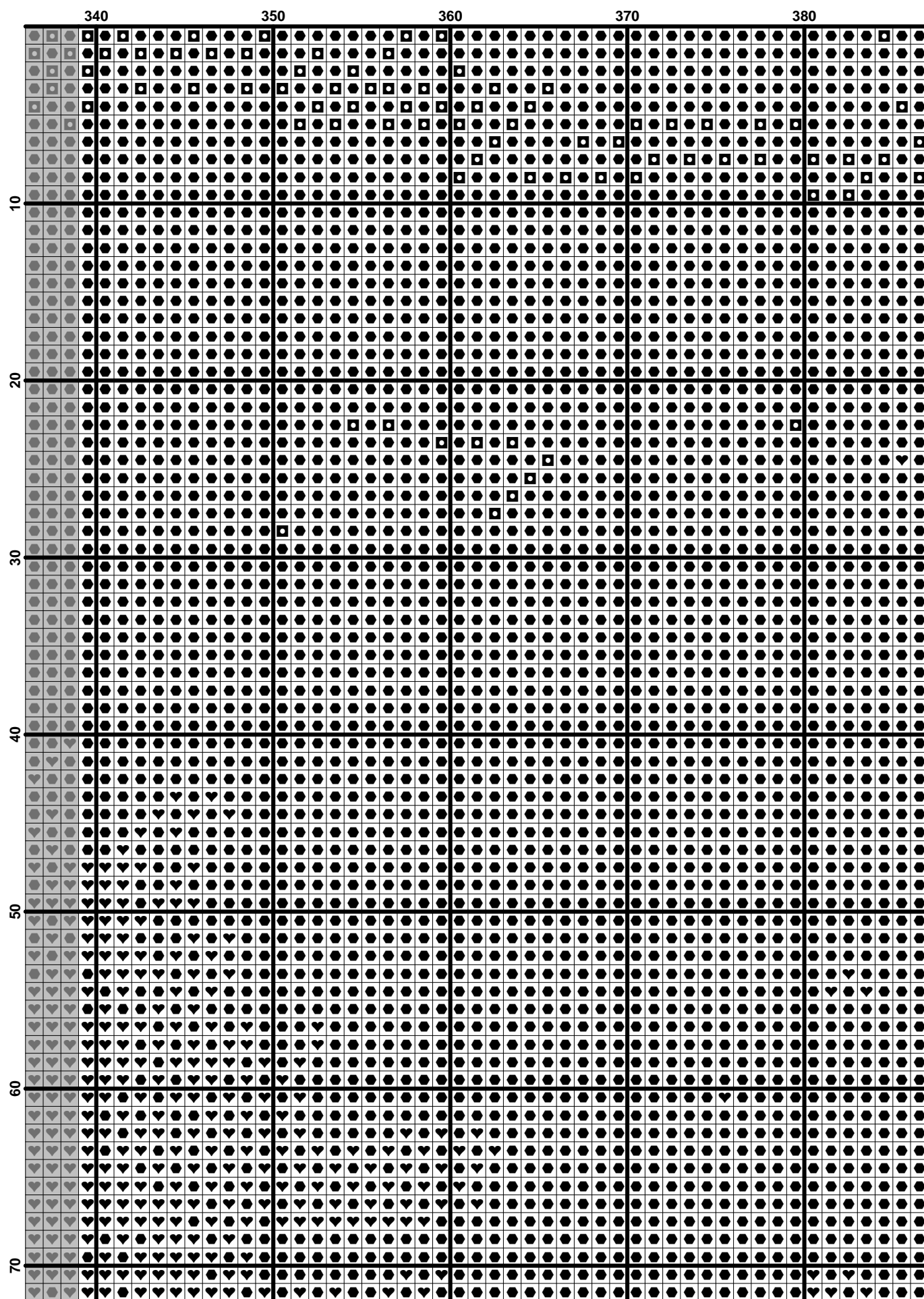


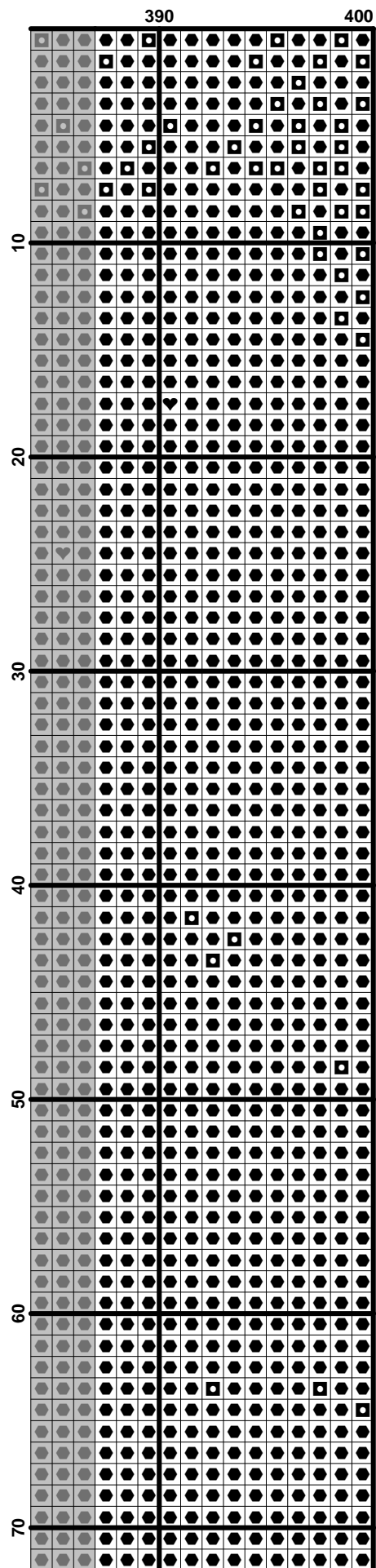


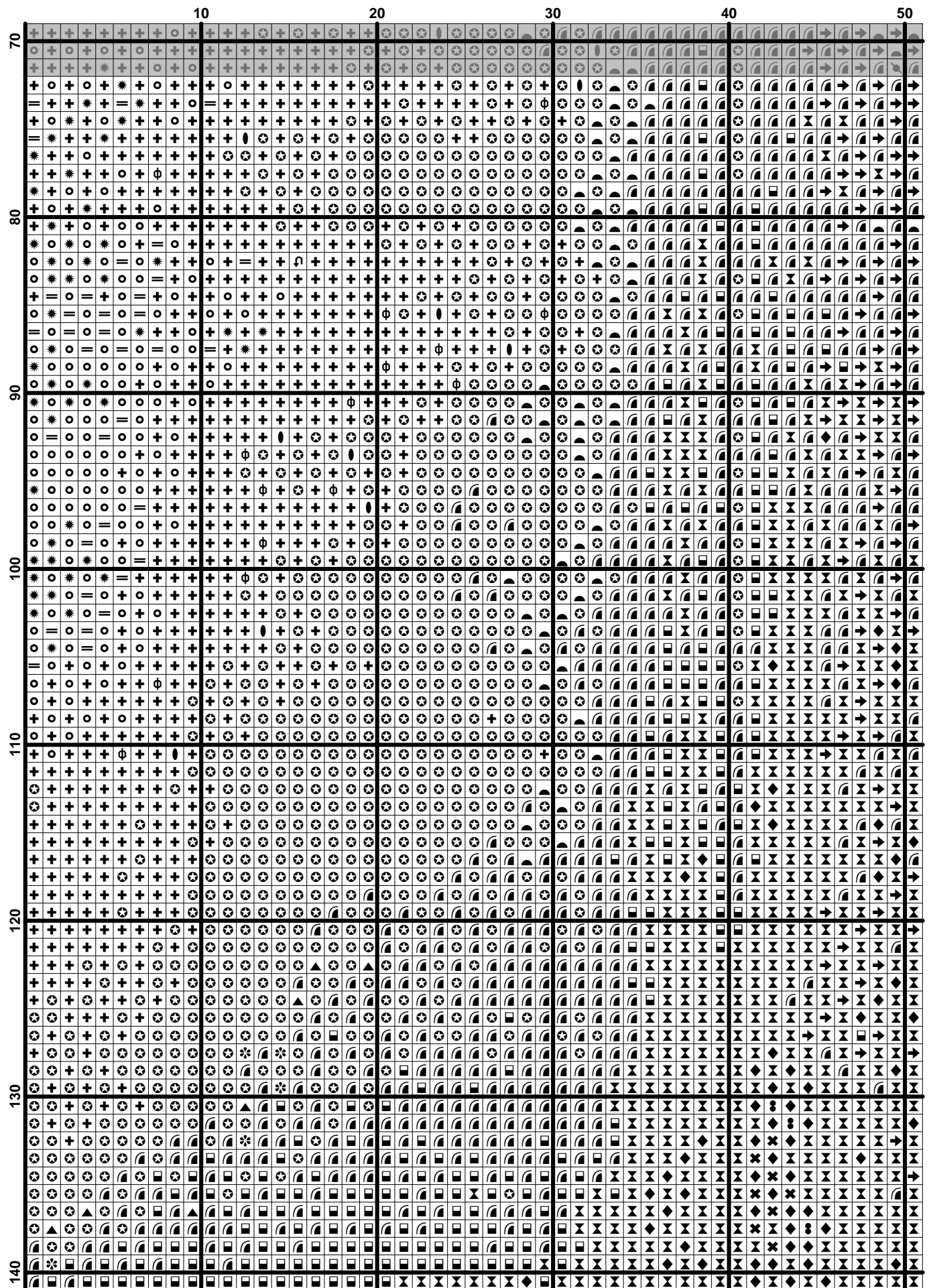


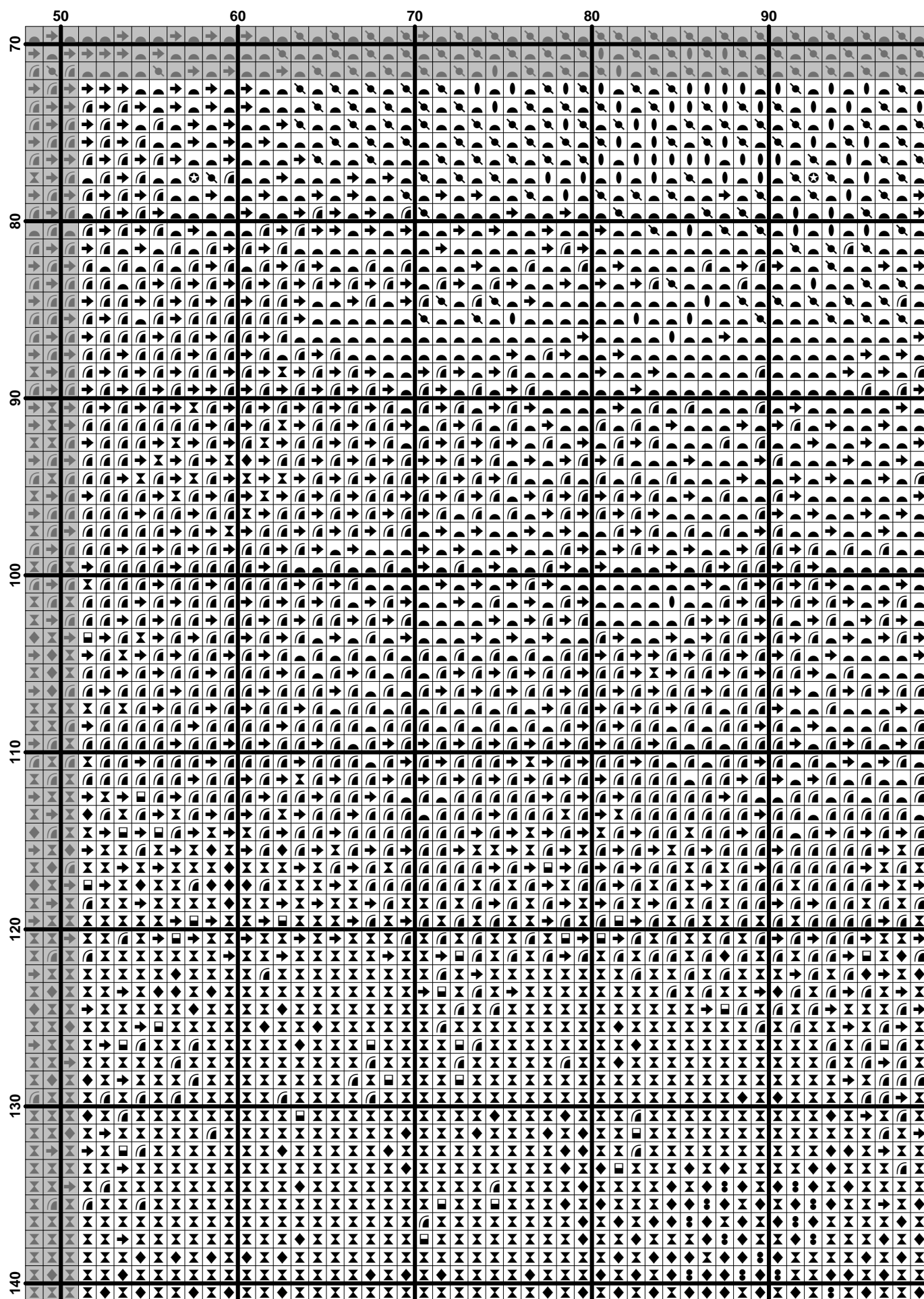


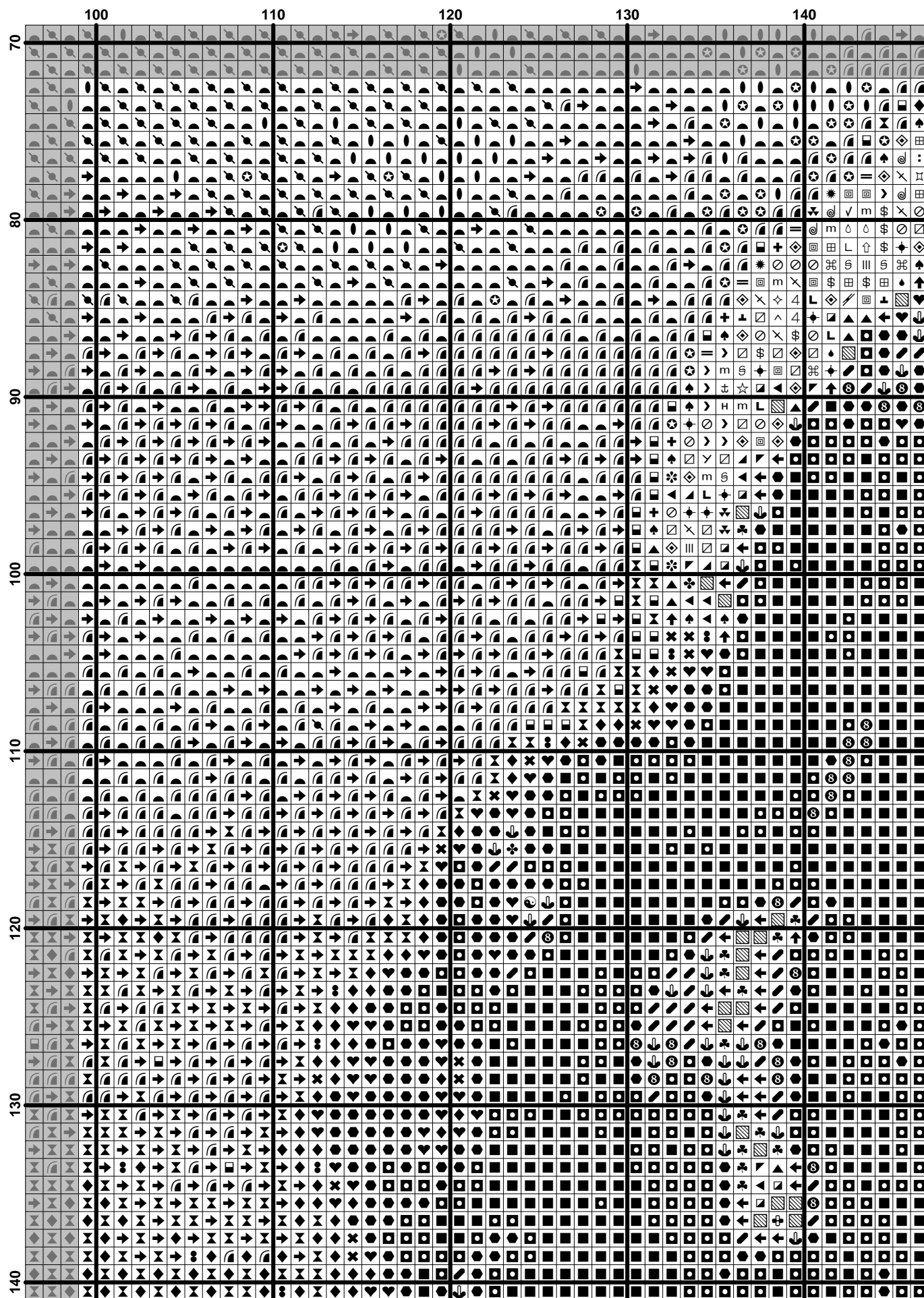






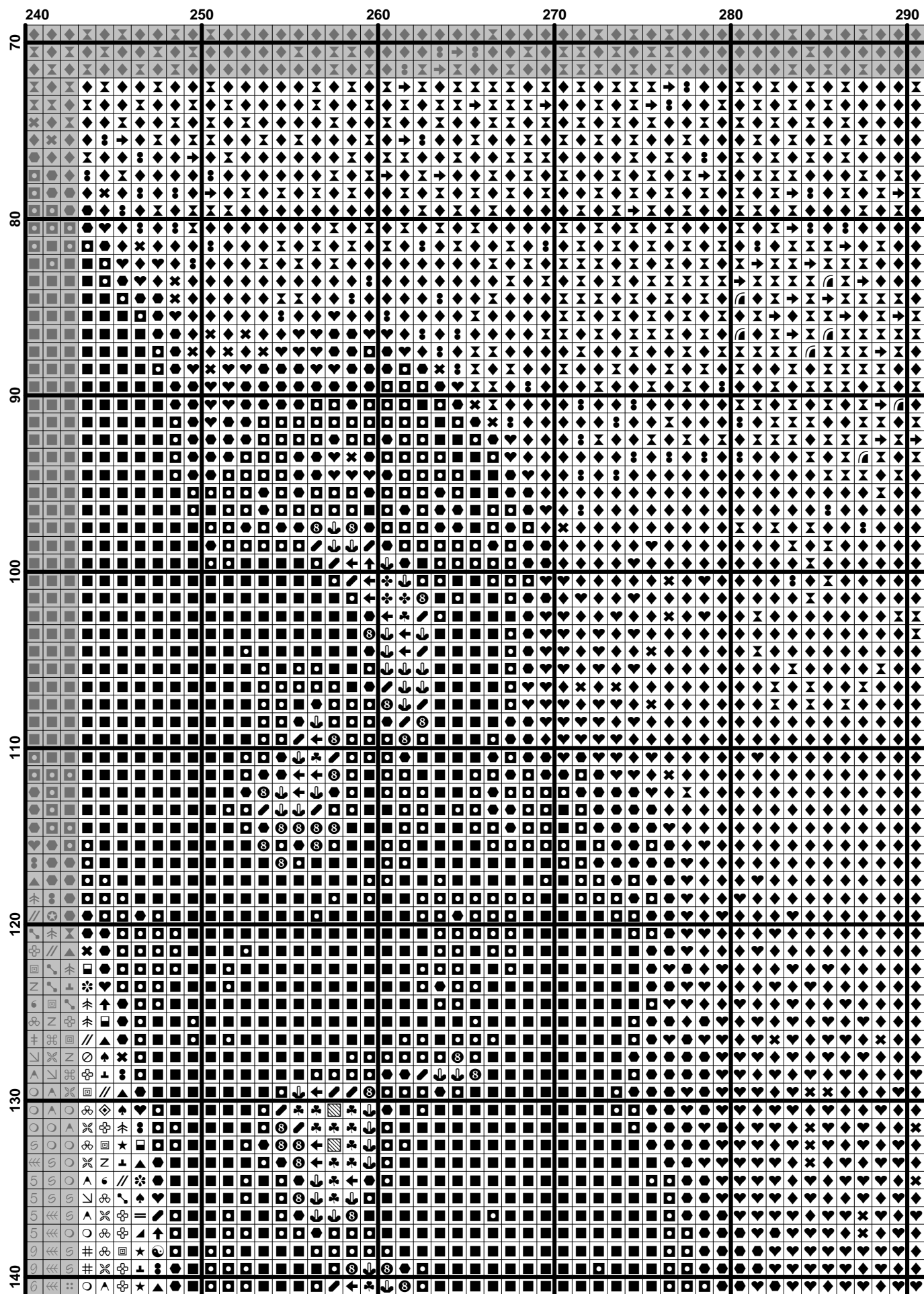


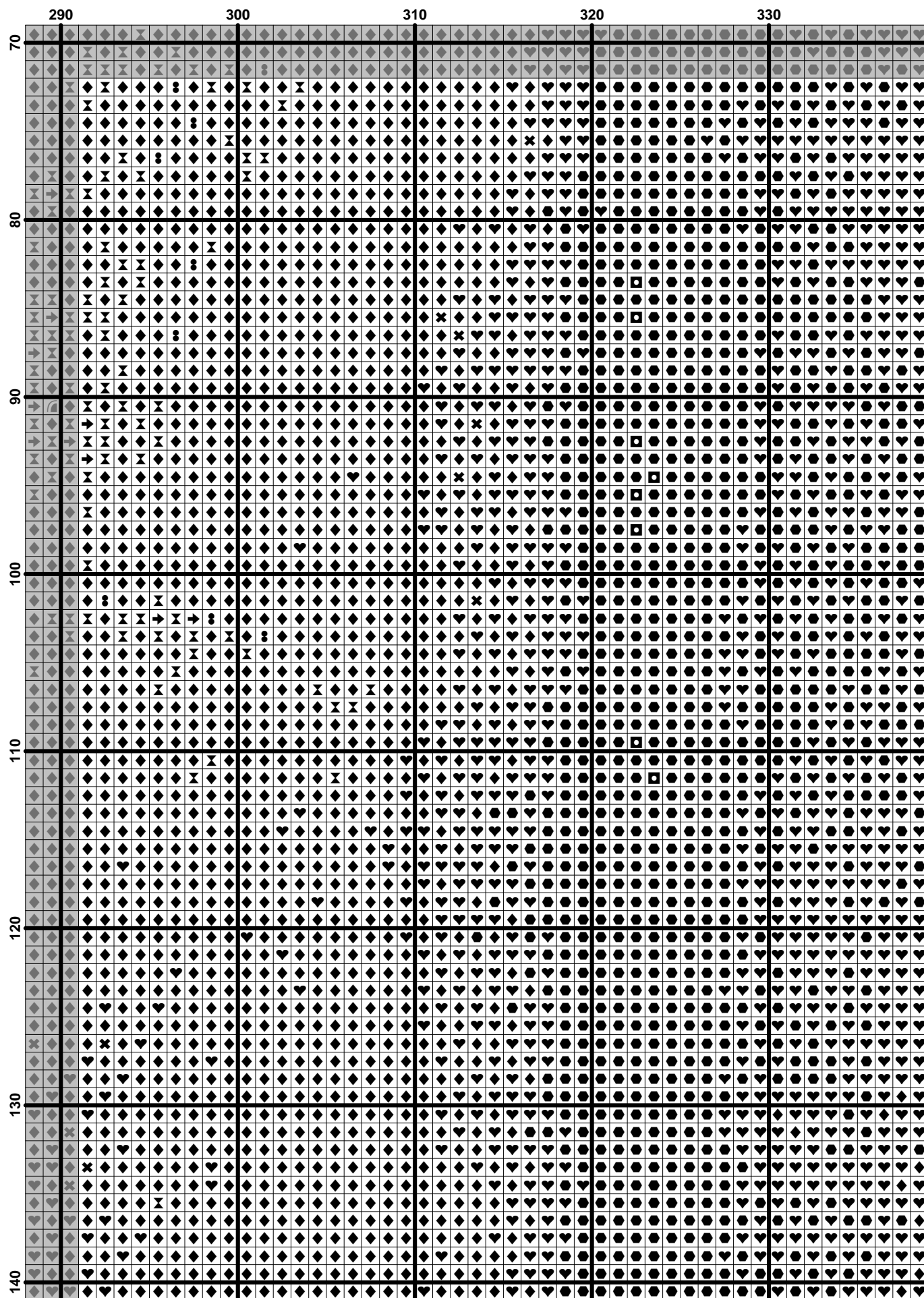


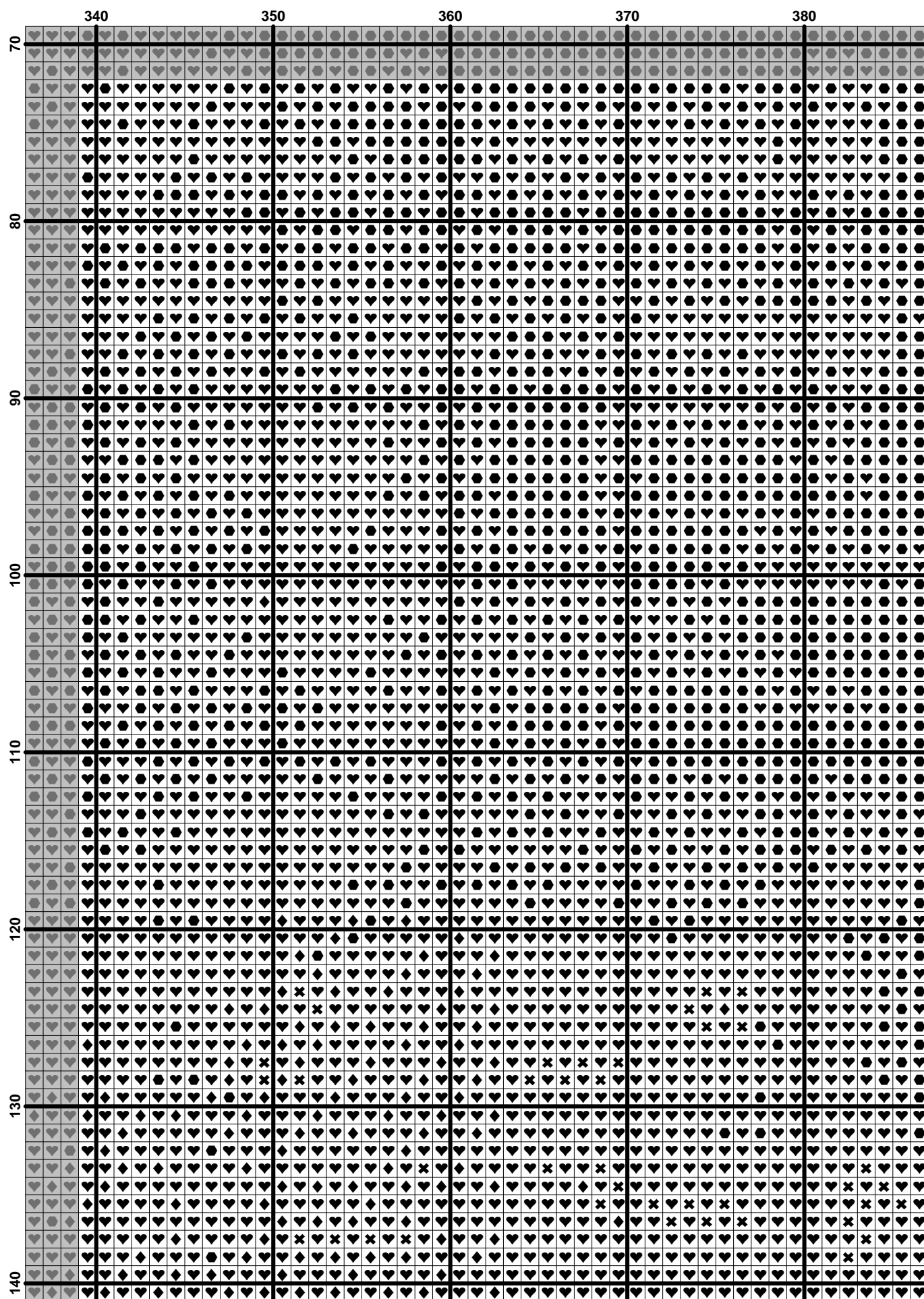


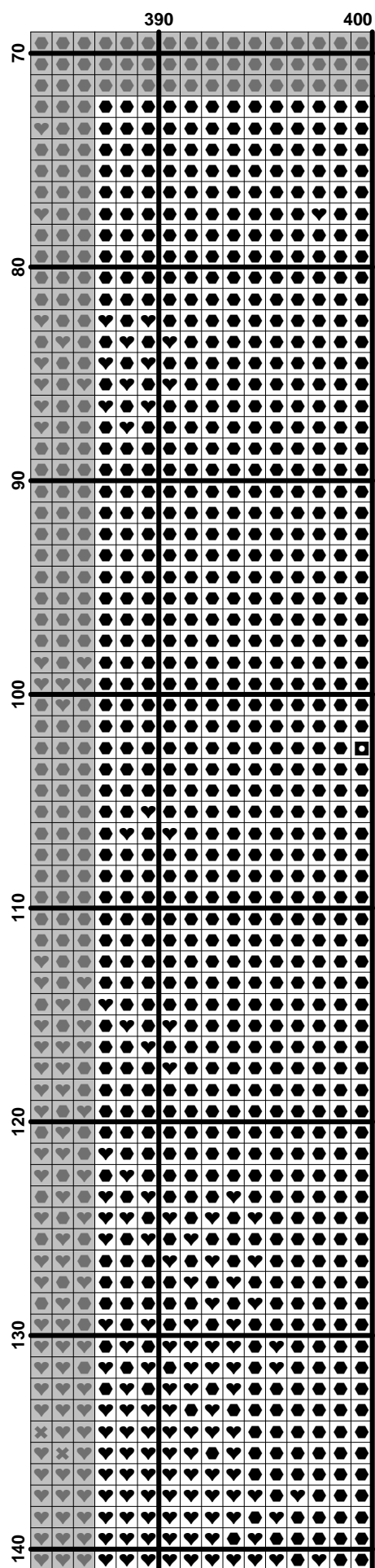
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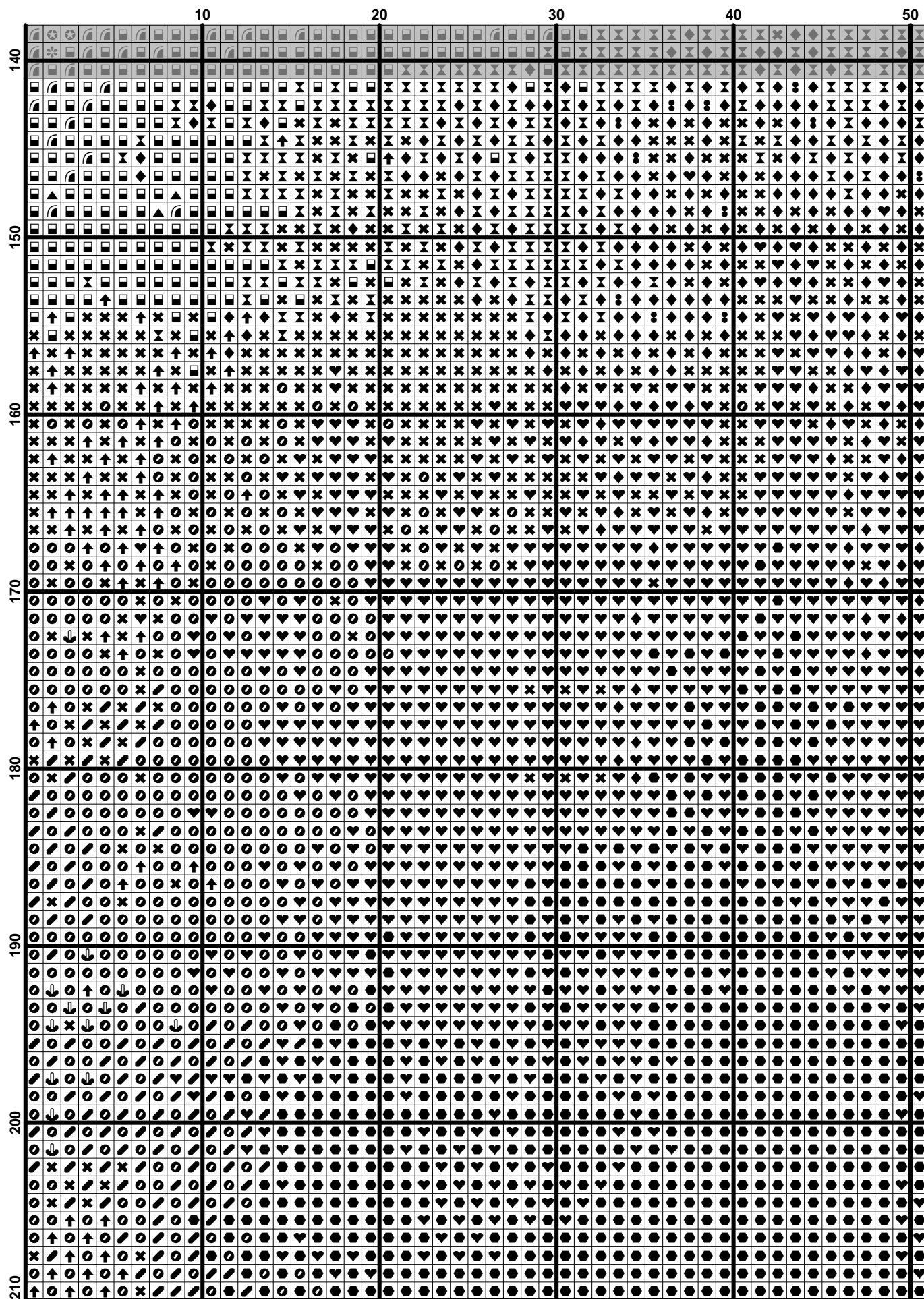
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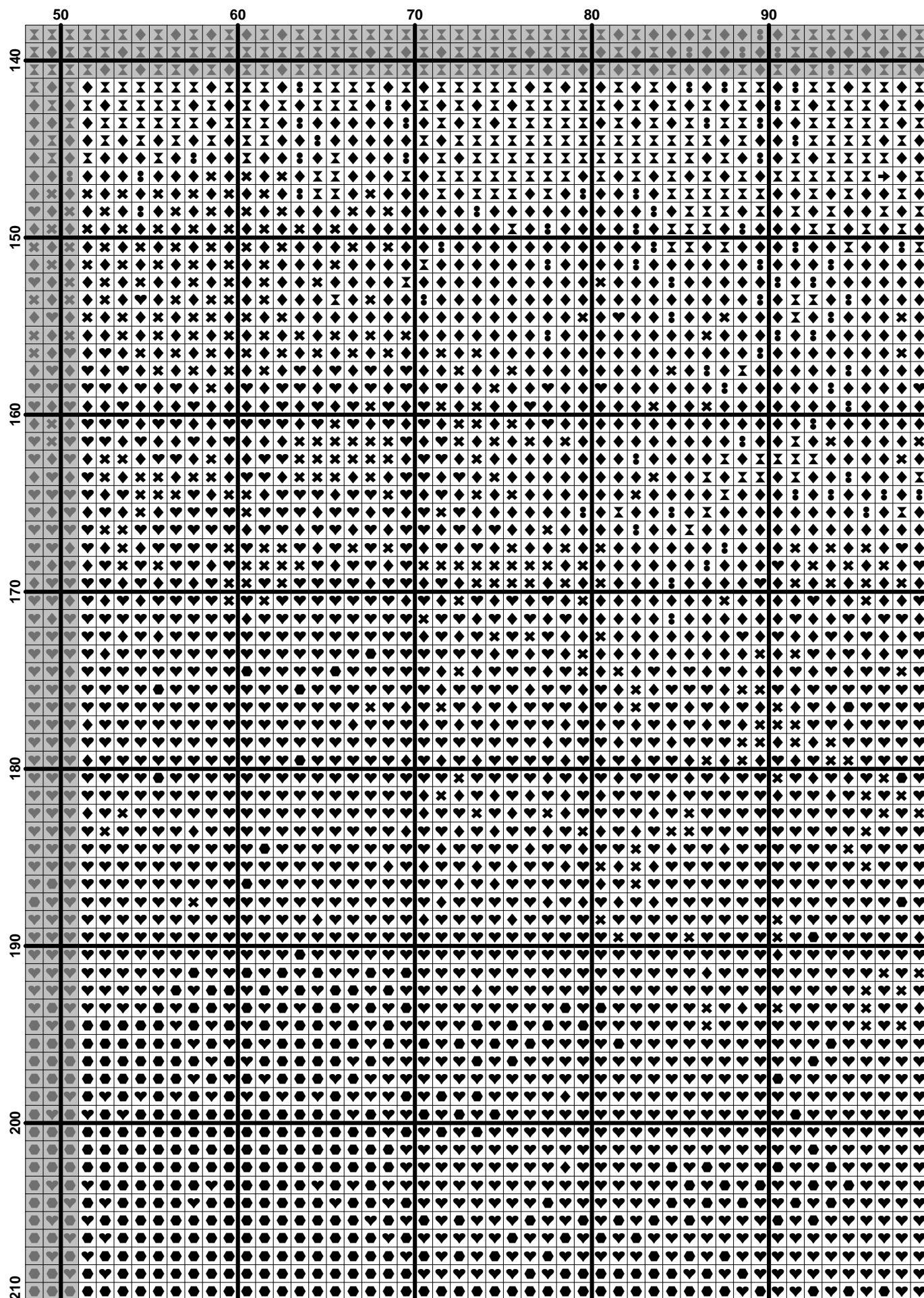


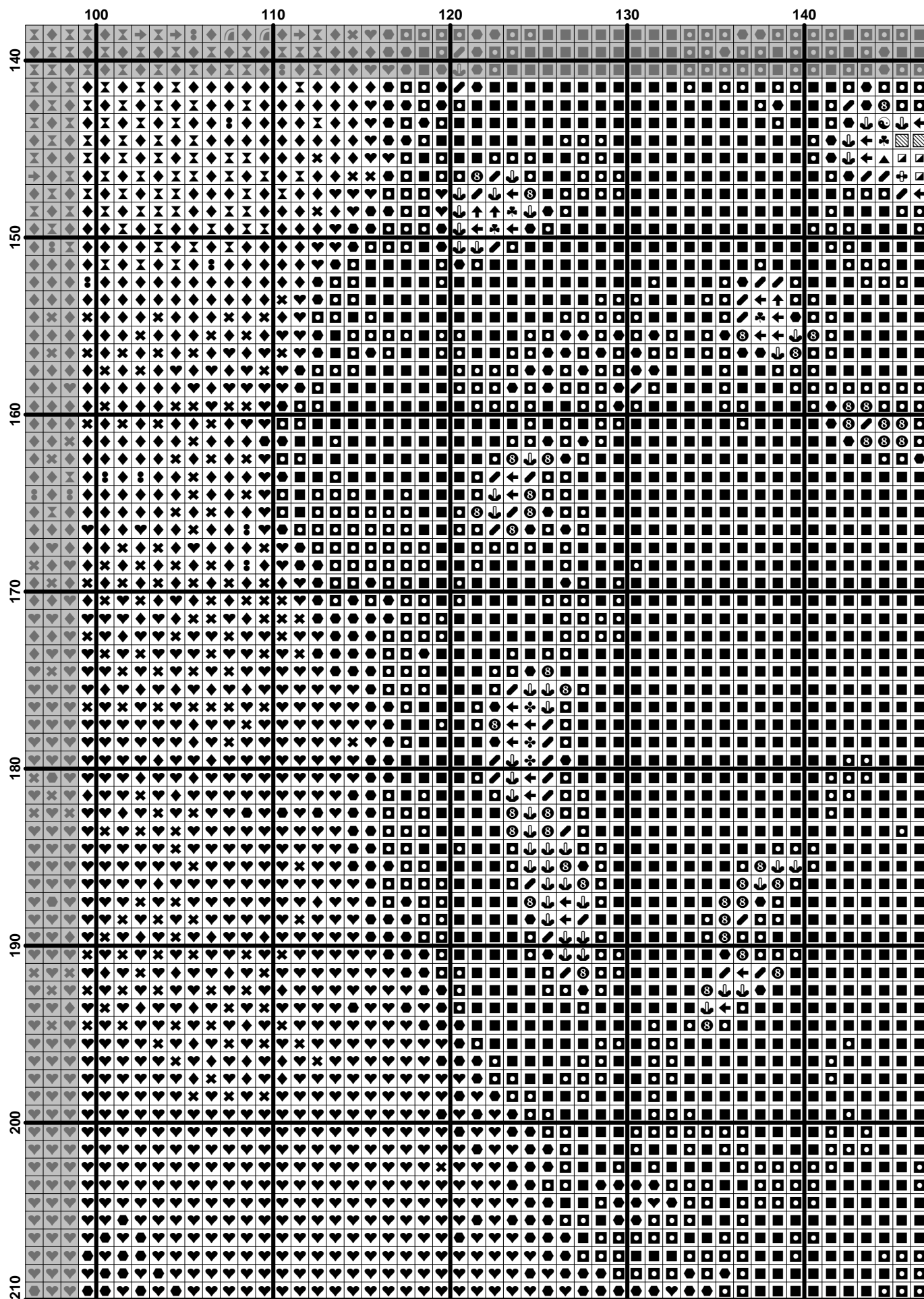






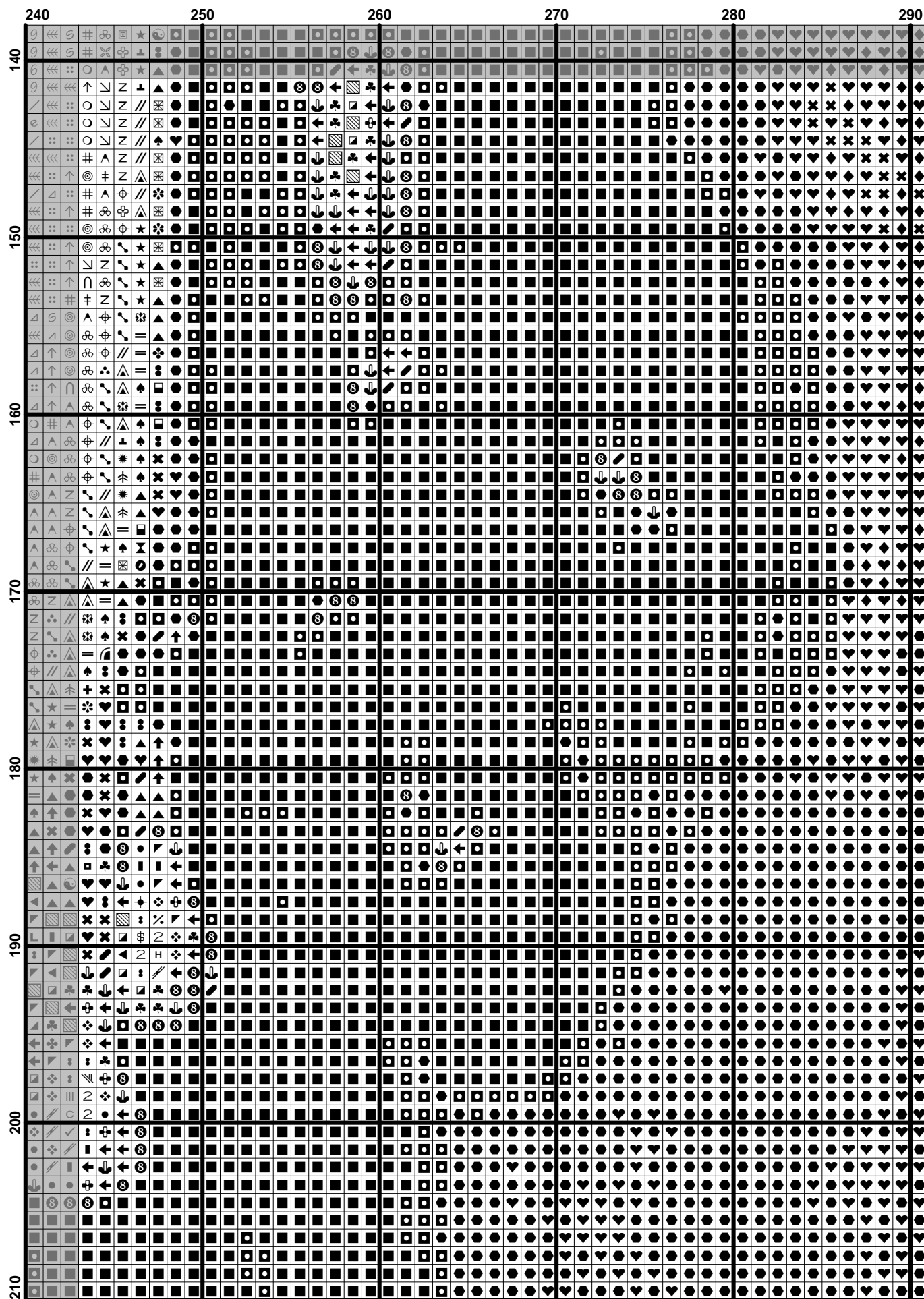


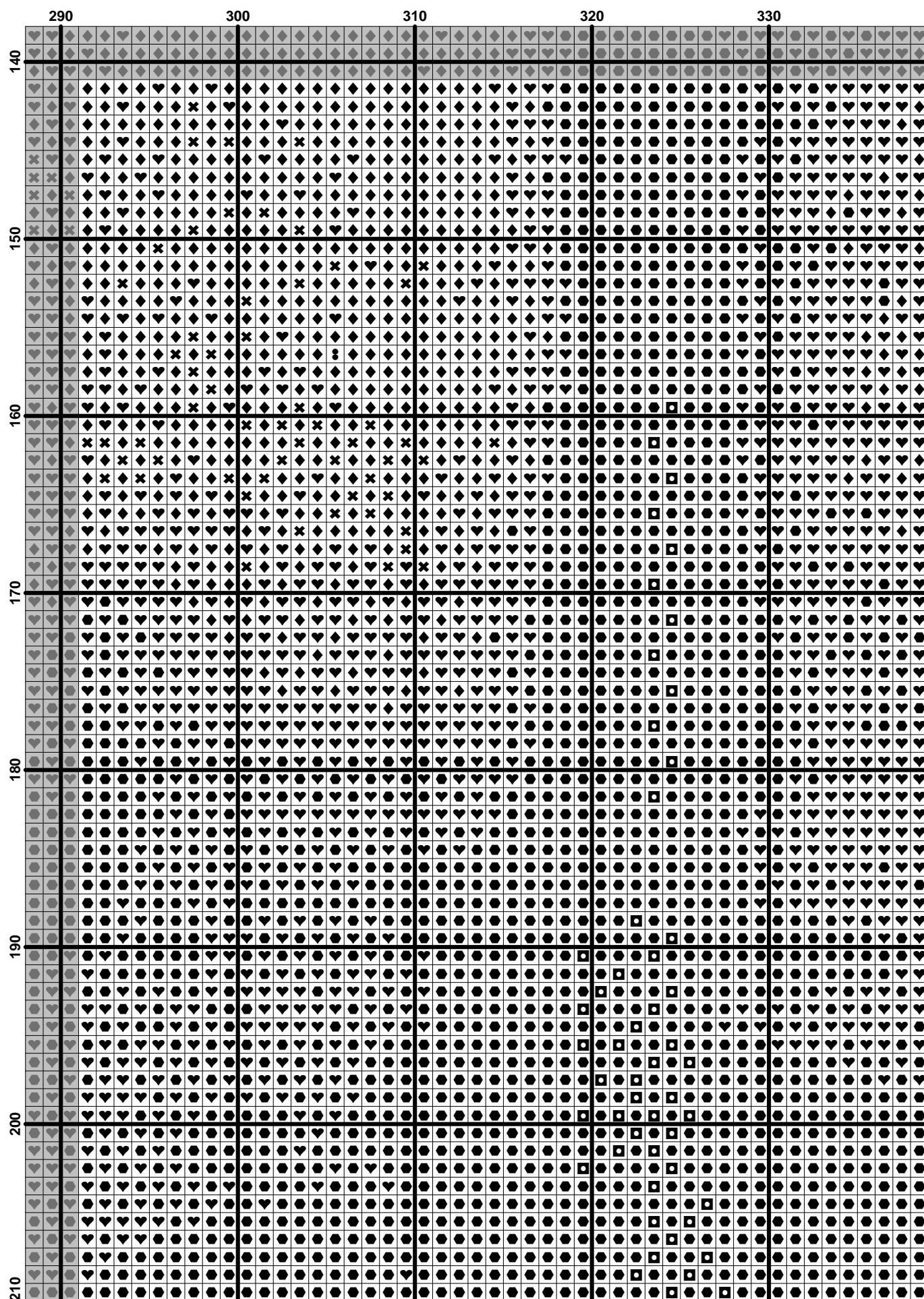


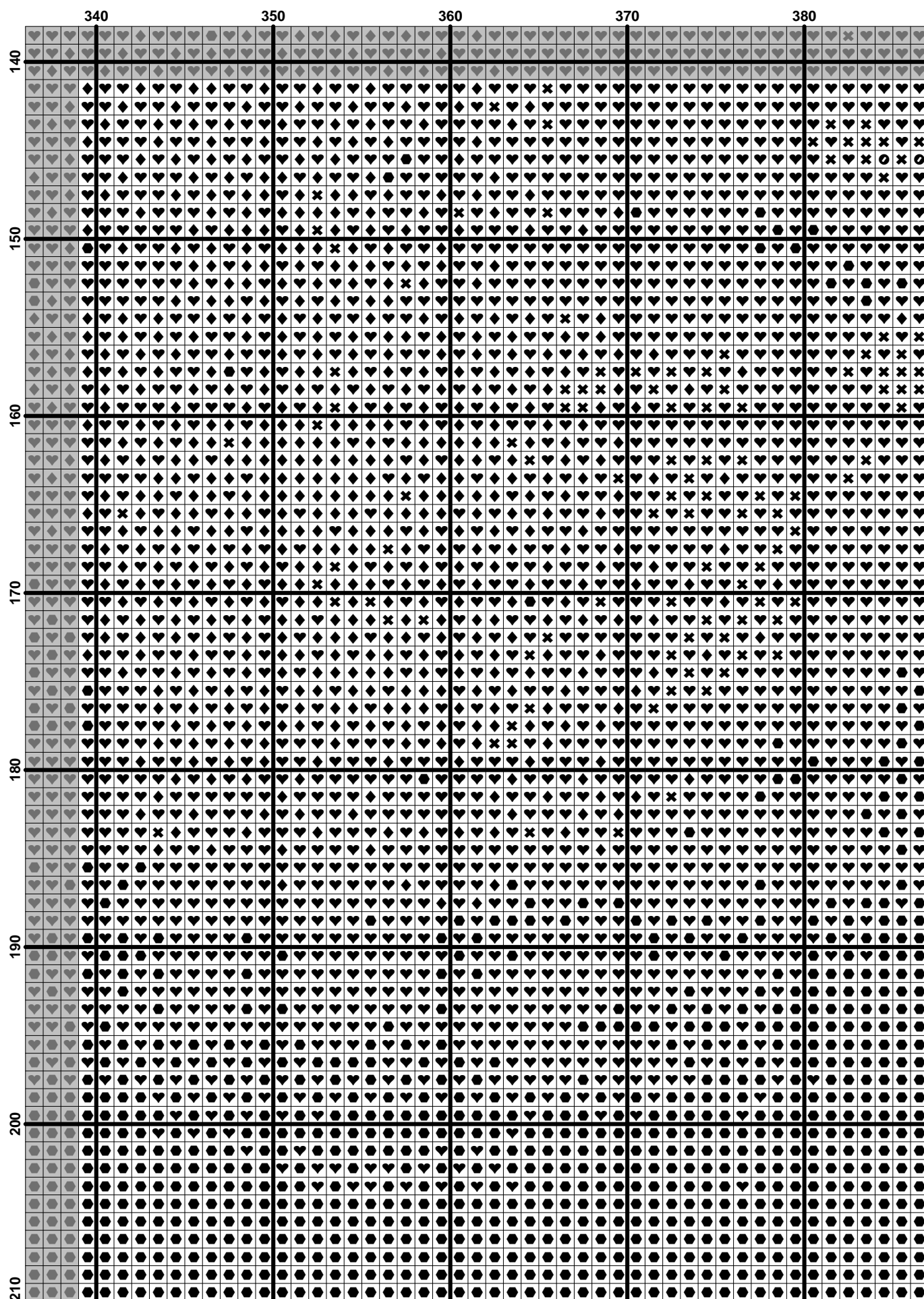


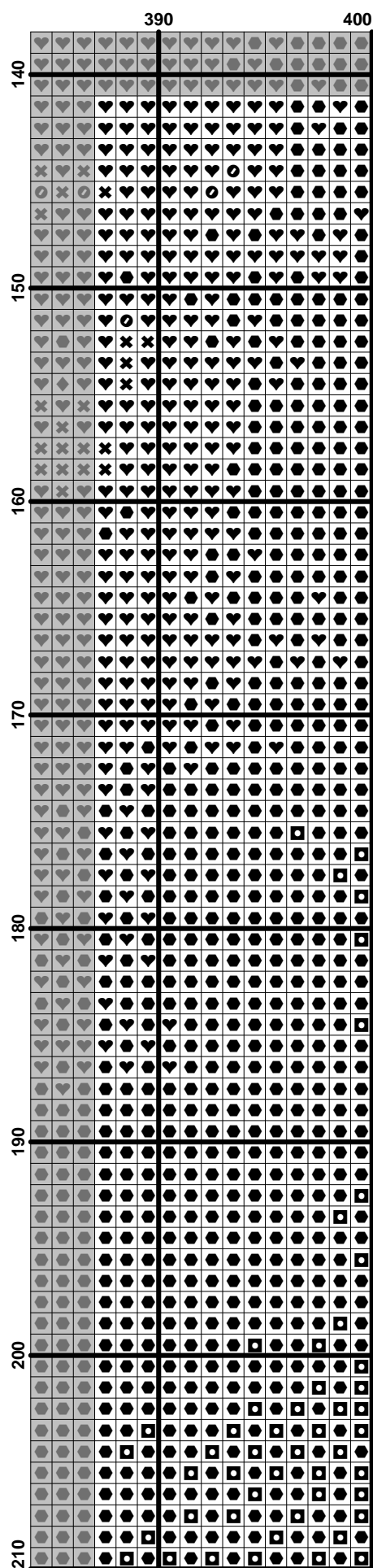
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150					
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200					
210					

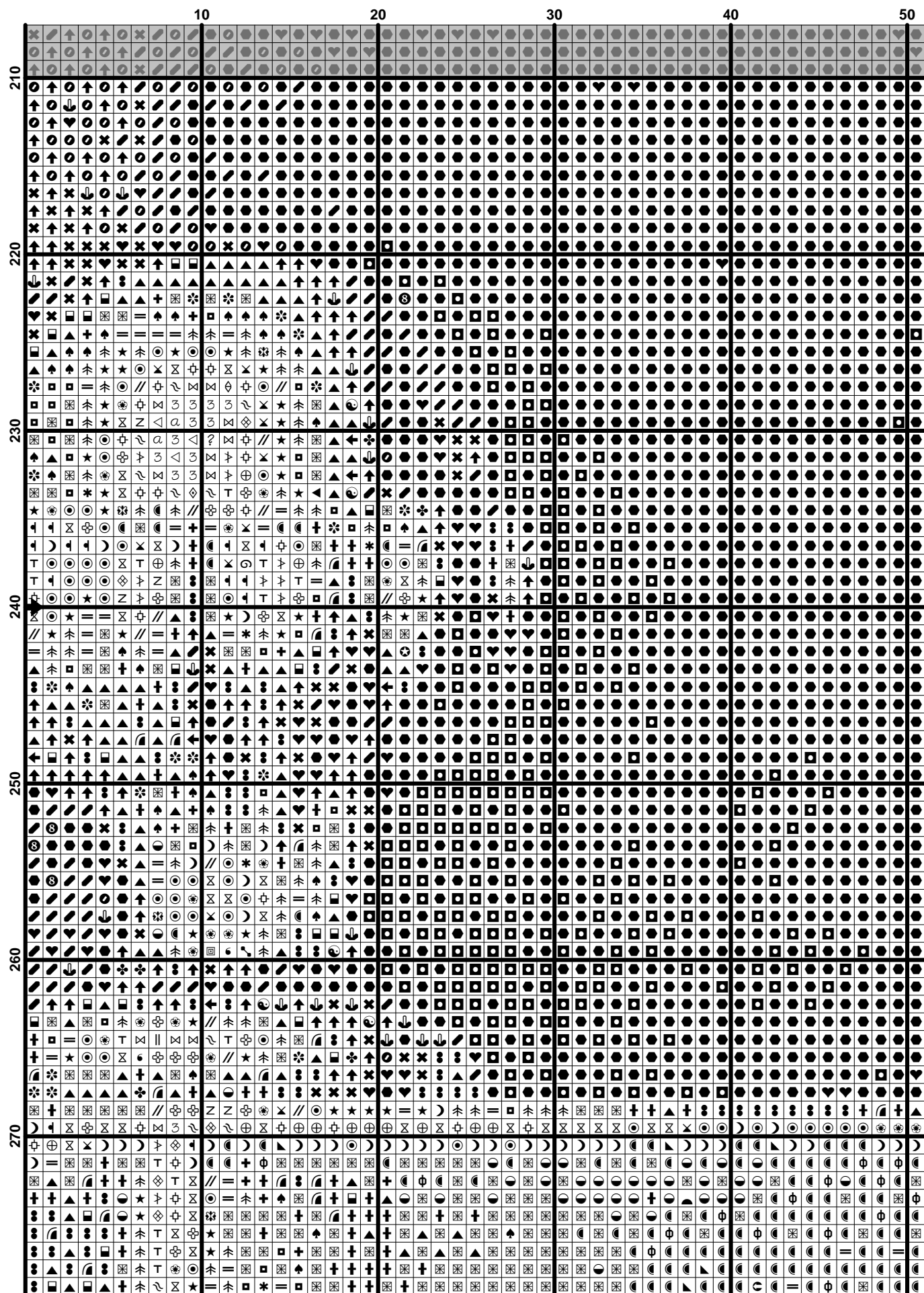
[illegible]











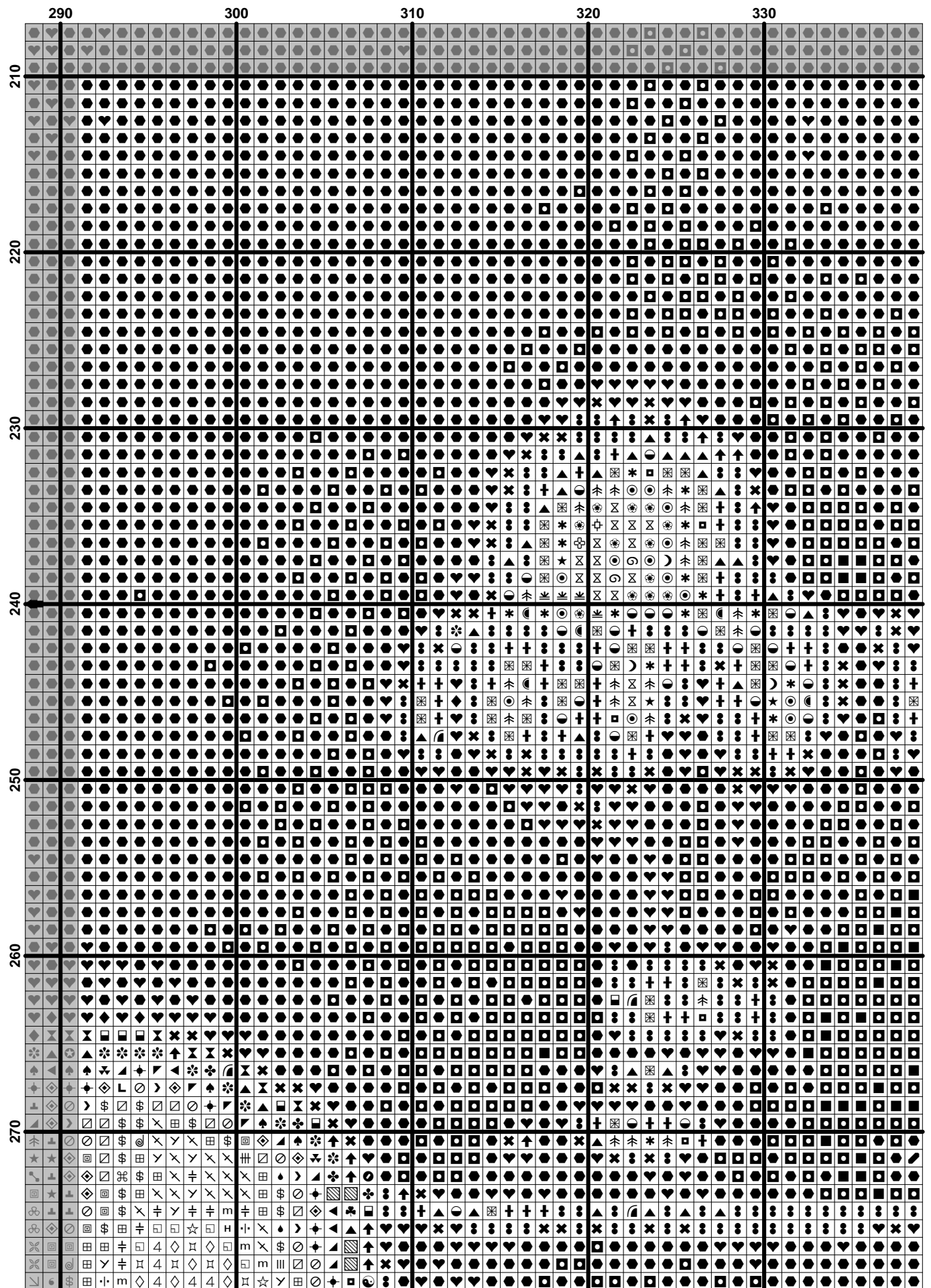
(39)

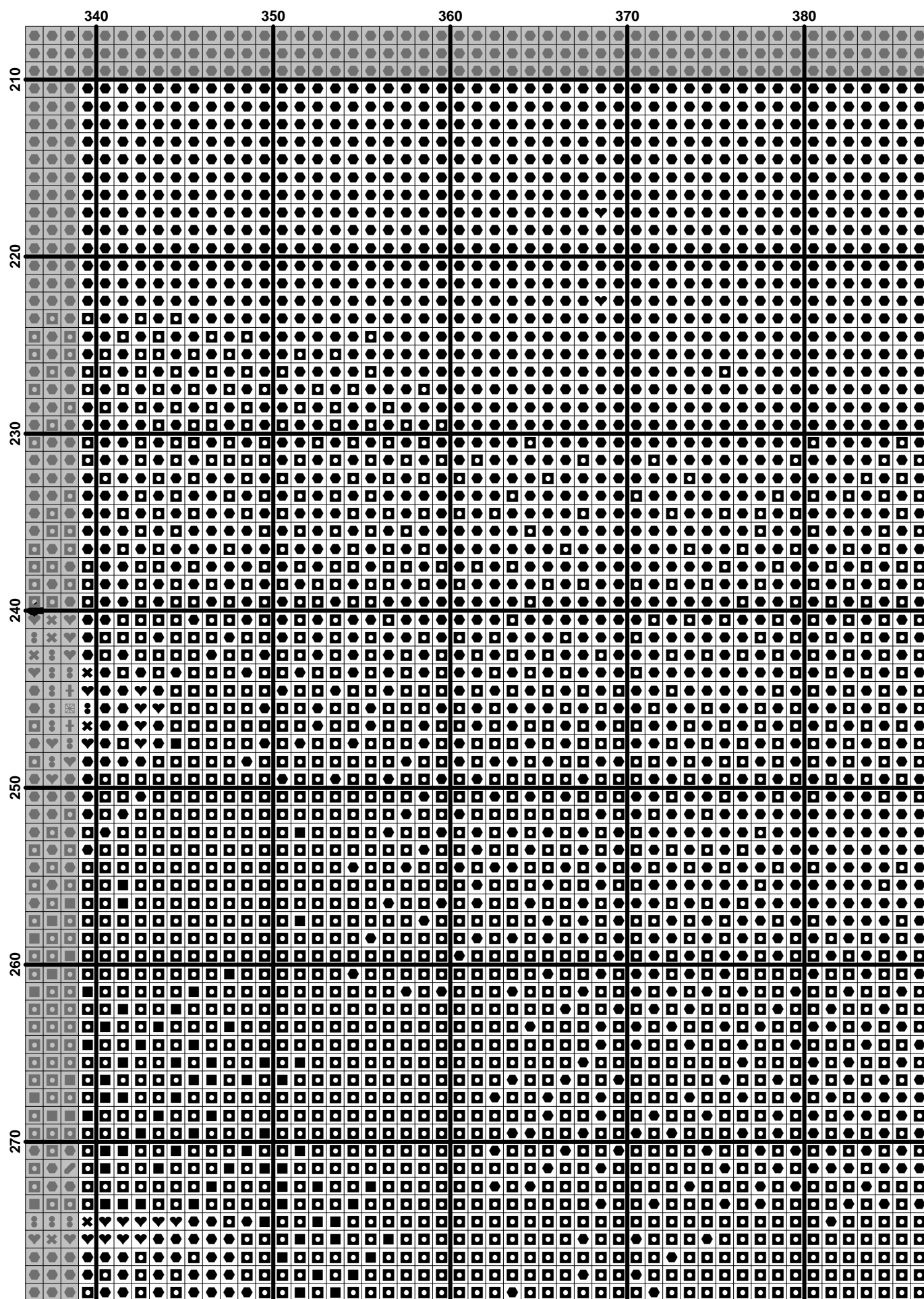
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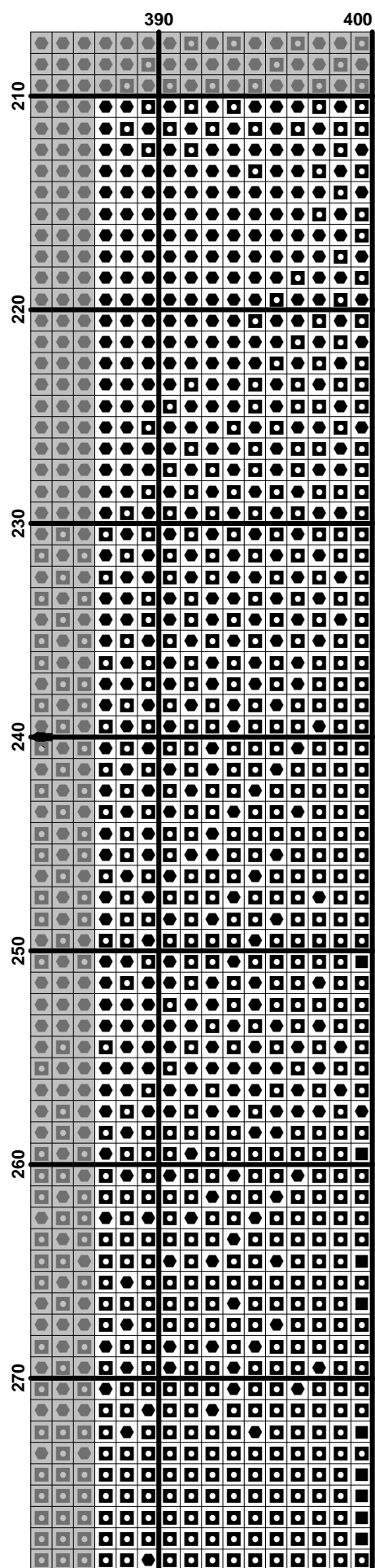
$$(40) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (41)$$

$$(41) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	240	250	260	270	280	290
210						
220						
230						
240						
250						
260						
270						







$$(46) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (47)$$

	50	60	70	80	90
	50	60	70	80	90
280
290
300
310
320
330
340

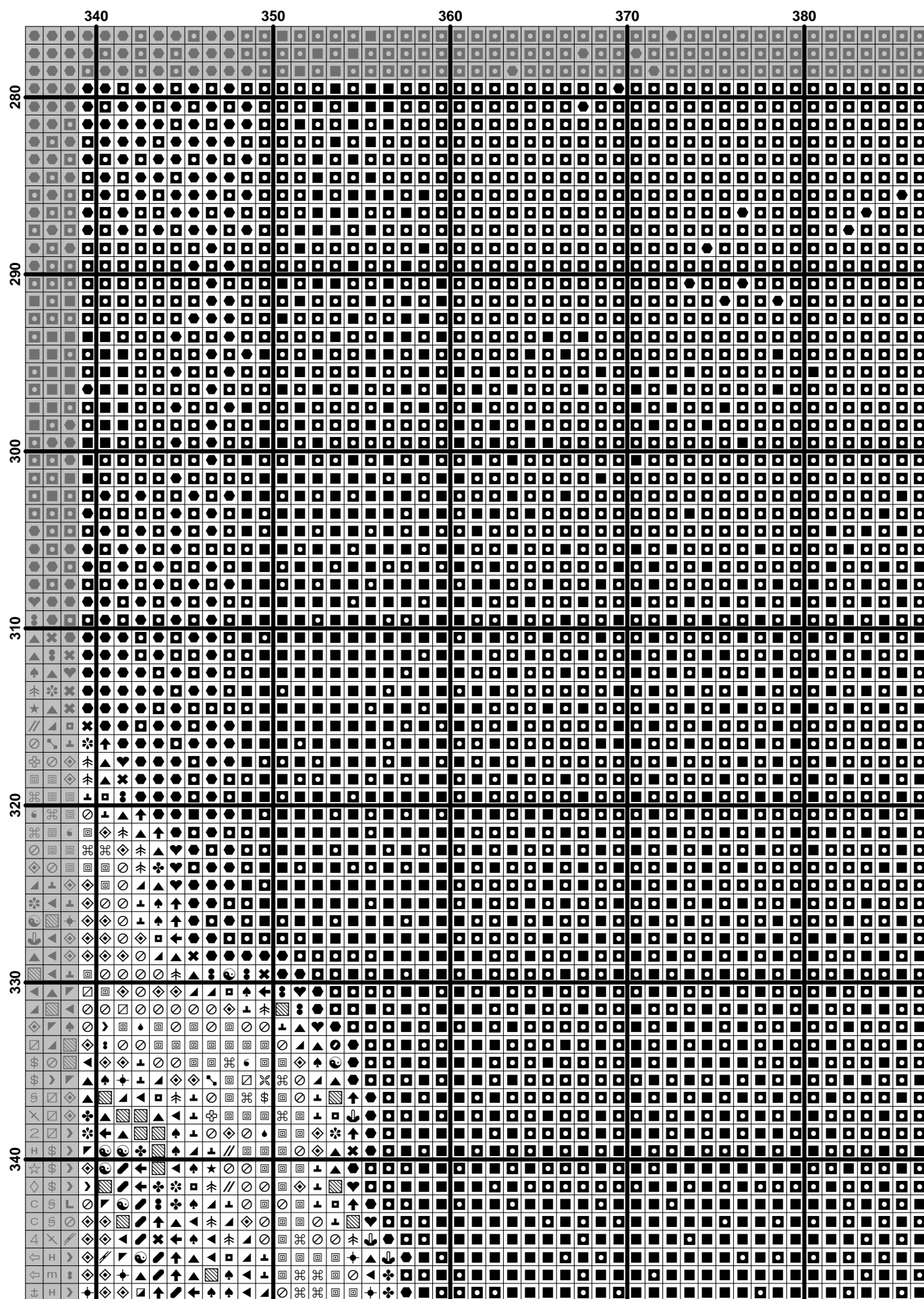
[illegible]

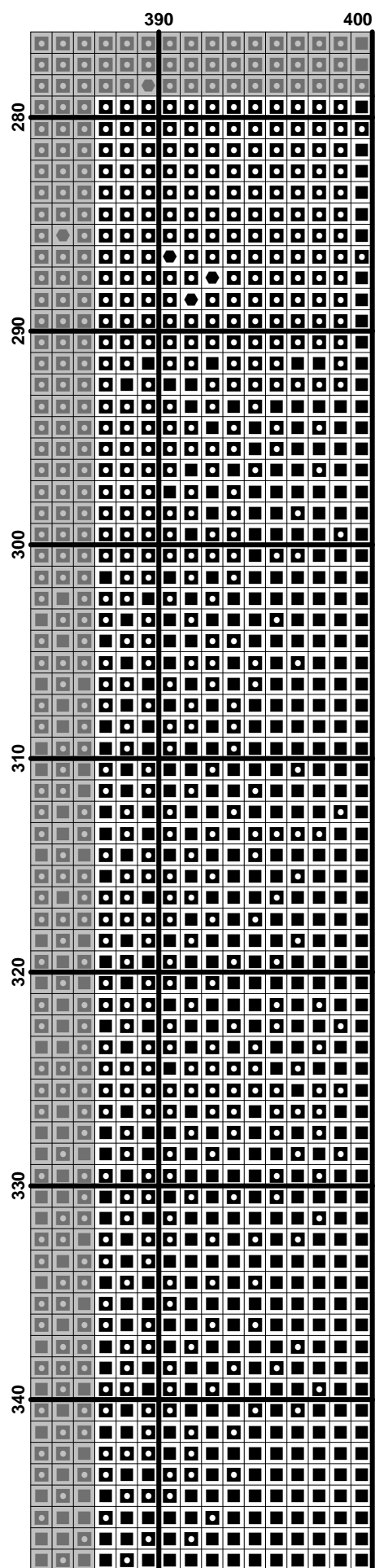
[illegible]

$$(50) \quad \mathcal{L}(\mathcal{A}) \subseteq \mathcal{L}(\mathcal{B}) \iff \mathcal{A} \subseteq \mathcal{B} \quad (51)$$

$$(51) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	290	300	310	320	330
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	✕	✕	✕	✕	✕





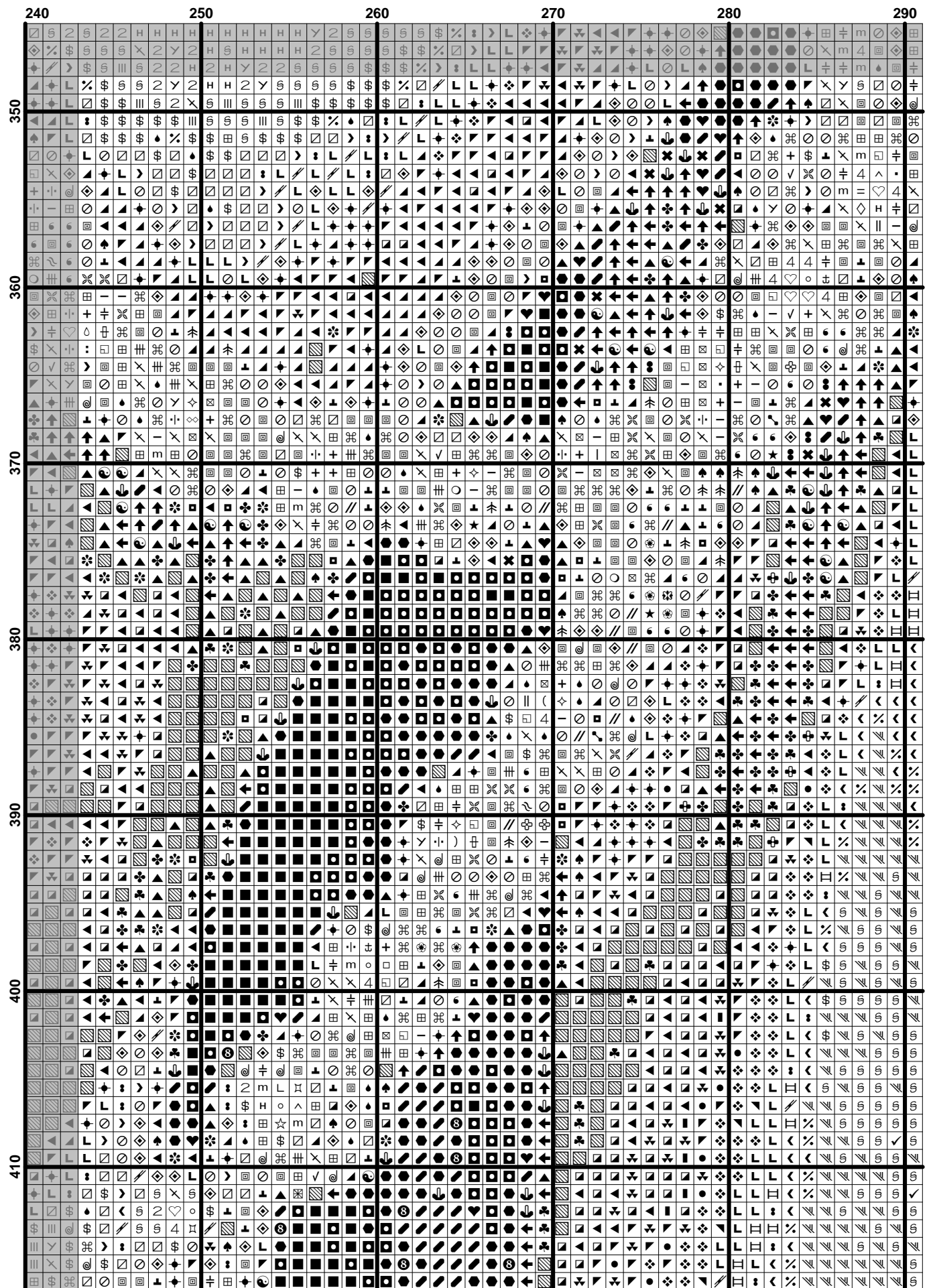
(56)

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

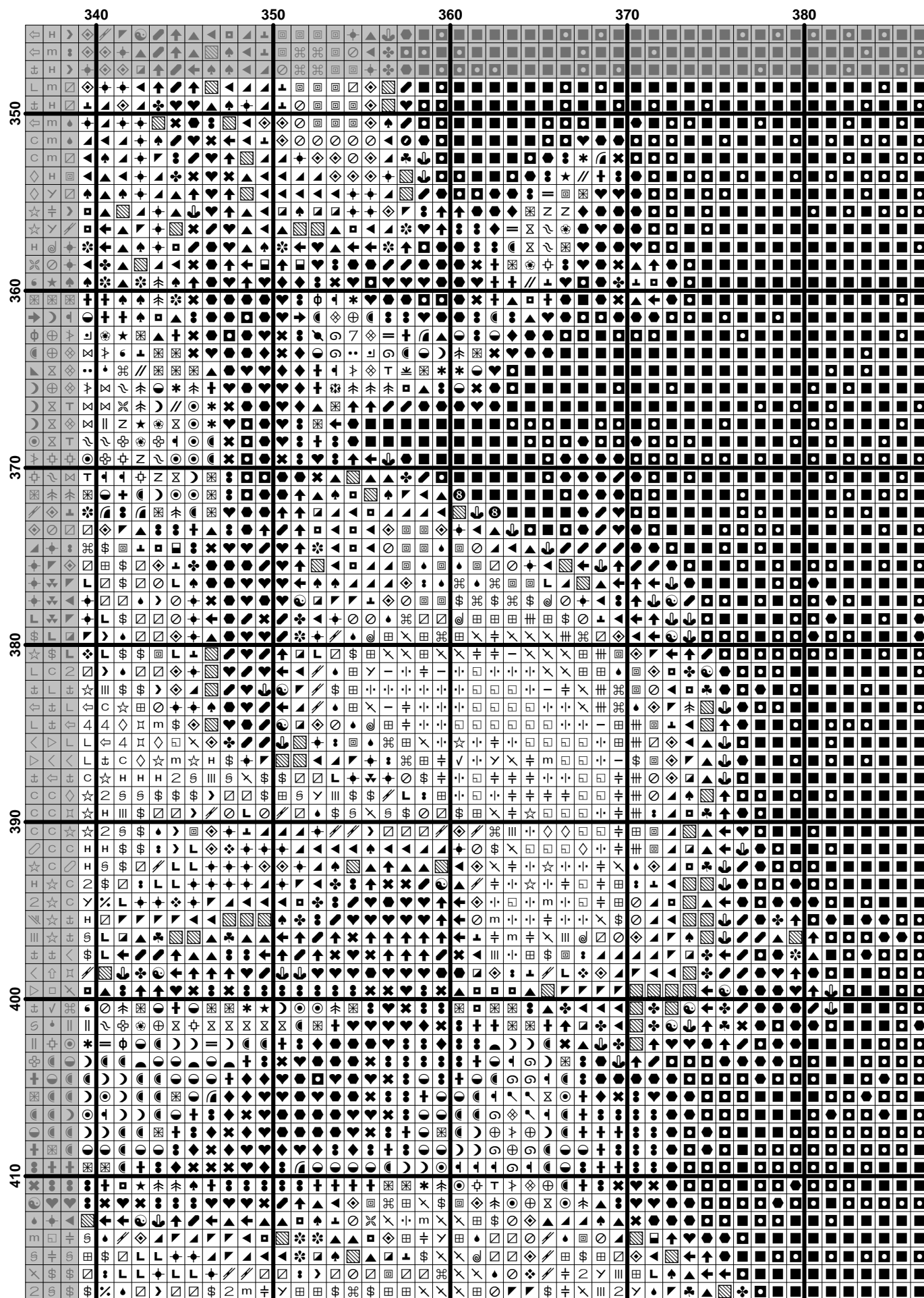
$$(57) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

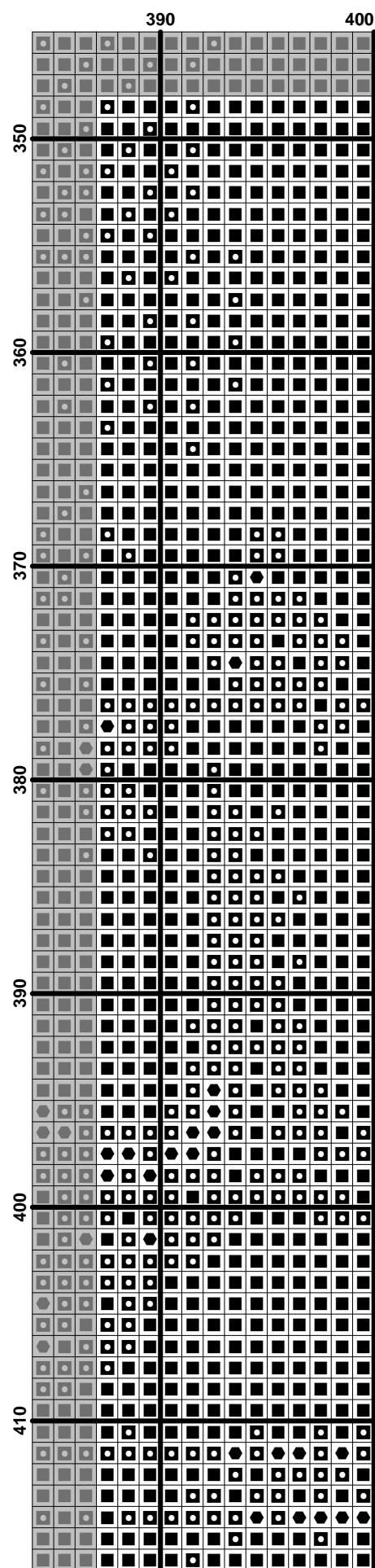
[illegible]

$$(59) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in J, \quad (60)$$



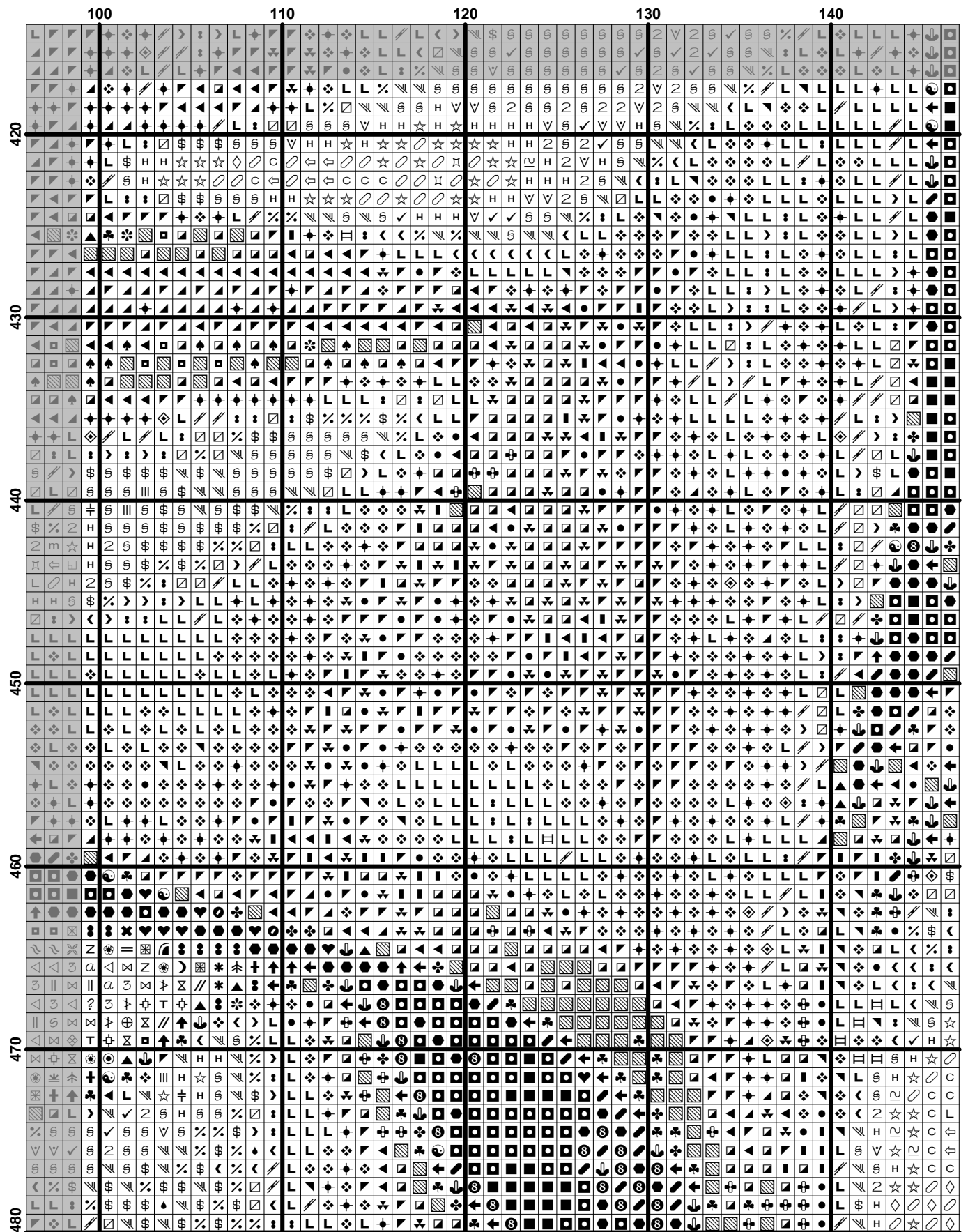
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	1234	1235	1236	1237	





[illegible]

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420					
430					
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