

## 856 The little sulk



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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 little sulk																							
<table><tr><th colspan="2">Stitch Count</th></tr><tr><td>Horizontal:</td><td>400</td></tr><tr><td>Vertical:</td><td>581</td></tr></table>					Stitch Count		Horizontal:	400	Vertical:	581	<table><tr><th colspan="2">Recommended Fabric Color</th></tr><tr><td colspan="2">Antique White</td></tr></table>									Recommended Fabric Color		Antique White	
Stitch Count																							
Horizontal:	400																						
Vertical:	581																						
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	106	41.46	64	24.89	93	36.28	57	22.125	82	32.25											
Including Margins:	89	35	122	48	80	31	109	43	73	29	98	39											
	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	148	58.04	85	33.18	123	48.37	42	16.59	61	24.18											
Including Margins:	118	46	164	65	101	40	139	55	58	23	77	31											
	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	59	23.21	39	15.31	57	22.32	37	14.74	54	21.49											
Including Margins:	56	22	75	30	55	22	73	29	53	21	70	28											
	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	53	20.73	34	13.27	49	19.34	31	12.44	46	18.13											
Including Margins:	52	21	69	27	50	20	65	26	47	19	62	25											

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
⚓	223	Shell Pink-LT
◁	224	Shell Pink-VY LT
◦	225	Shell Pink-UL VY LT
♁	317	Pewter Gray
⊕	318	Steel Gray-LT
c	353	Peach
⌘	355	Terra Cotta-DK
⌚	356	Terra Cotta-MD
z	407	Desert Sand-DK
♁	413	Pewter Gray -DK
⌚	414	Steel Gray-DK
z	415	Pearl Gray
⌚	451	Shell Gray-DK
⌚	452	Shell Gray-MD
v	453	Shell Gray-LT
e	543	Beige Brown-UL VY LT
♁	632	Desert Sand-UL VY DK
◦	645	Beaver Gray-VY DK
::	739	Tan-UL VY LT
=	754	Peach-LT
⌚	758	Terra Cotta-VY LT
)	762	Pearl Gray-VY LT
:	819	Baby Pink-LT
u	822	Beige Gray-LT
■	823	Navy Blue-DK
◦	838	Beige Brown-VY DK
←	839	Beige Brown-DK
⊕	840	Beige Brown-MD
⌚	841	Beige Brown-LT
z	842	Beige Brown-VY LT
→	844	Beaver Brown-UL DK
⊕	934	Black Avocado Green

■	939	Navy Blue-VY DK
+	945	Tawny
(	948	Peach-VY LT
ρ	950	Desert Sand-LT
◊	951	Tawny-LT
✕	3021	Brown Gray-VY DK
♁	3023	Brown Gray-LT
•	3041	Antique Violet-MD
◊	3042	Antique Violet-LT
⌚	3064	Desert Sand
□	3340	Apricot-MD
z	3712	Salmon-MD
⌚	3713	Salmon-VY LT
⊕	3721	Shell Pink-DK
⌚	3722	Shell Pink-MD
⌚	3740	Antique Violet-DK
⌚	3743	Antique Violet-VY LT
⊕	3768	Gray Green-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
⊕	3799	Pewter Gray-VY DK
⊕	3802	Antique Mauve-VY DK
⊕	3830	Terra Cotta-MD
⊕	3856	Mahogany-UL VY LT
⊕	3858	Rosewood-MD
⊕	3859	Rosewood-LT
⊕	3860	Cocoa
⊕	3861	Cocoa-LT
⊕	3862	Mocha Beige-DK
m	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
⌚	645	Beaver Gray-VY DK	413	Pewter Gray -DK
⌚	645	Beaver Gray-VY DK	3740	Antique Violet-DK
⊕	3740	Antique Violet-DK	413	Pewter Gray -DK
♁	3799	Pewter Gray -VY DK	844	Beaver Brown-UL DK
▲	645	Beaver Gray-VY DK	844	Beaver Brown-UL DK
▼	645	Beaver Gray-VY DK	839	Beige Brown-DK
⌚	413	Pewter Gray -DK	317	Pewter Gray
⌚	3041	Antique Violet-MD	317	Pewter Gray
⊕	3041	Antique Violet-MD	451	Shell Gray-DK
z	844	Beaver Brown-UL DK	413	Pewter Gray -DK
◆	413	Pewter Gray -DK	3799	Pewter Gray-VY DK
⌚	3860	Cocoa	839	Beige Brown-DK
*	840	Beige Brown-MD	841	Beige Brown-LT
⊕	3861	Cocoa-LT	3864	Mocha Beige-LT
+	3787	Brown Gray -DK	3860	Cocoa

♣	839	Beige Brown-DK	844	Beaver Brown-UL DK
♠	3860	Cocoa	451	Shell Gray-DK
♥	844	Beaver Brown-UL DK	3860	Cocoa
♦	315	Antique Mauve-VY DK	3860	Cocoa
♠	3721	Shell Pink-DK	632	Desert Sand-UL VY DK
♠	3802	Antique Mauve-VY DK	839	Beige Brown-DK
♠	3772	Desert Sand-VY DK	3721	Shell Pink-DK
♠	3859	Rosewood-LT	356	Terra Cotta-MD
♠	3802	Antique Mauve-VY DK	3860	Cocoa
♠	840	Beige Brown-MD	3772	Desert Sand-VY DK
♠	840	Beige Brown-MD	223	Shell Pink-LT
♠	645	Beaver Gray-VY DK	317	Pewter Gray
♠	844	Beaver Brown-UL DK	3740	Antique Violet-DK
♠	451	Shell Gray-DK	3861	Cocoa-LT
♠	415	Pearl Gray	414	Steel Gray-DK
♠	3861	Cocoa-LT	414	Steel Gray-DK
♠	3861	Cocoa-LT	3041	Antique Violet-MD
♠	415	Pearl Gray	3861	Cocoa-LT
♠	3041	Antique Violet-MD	414	Steel Gray-DK
♠	3021	Brown Gray -VY DK	3799	Pewter Gray -VY DK
♠	823	Navy Blue-DK	3799	Pewter Gray -VY DK
♠	823	Navy Blue-DK	3031	Mocha Brown-VY DK
♠	3031	Mocha Brown-VY DK	3799	Pewter Gray -VY DK
♠	3861	Cocoa-LT	3032	Mocha Brown-MD
♠	928	Gray Green-VY LT	452	Shell Gray-MD
♠	3772	Desert Sand-VY DK	420	Hazelnut Brown-DK
♠	3772	Desert Sand-VY DK	3859	Rosewood-LT
♠	3772	Desert Sand-VY DK	372	Mustard-LT
♠	3721	Shell Pink-DK	420	Hazelnut Brown-DK
♠	3721	Shell Pink-DK	840	Beige Brown-MD
♠	3778	Terra Cotta-LT	407	Desert Sand-DK
♠	372	Mustard-LT	3859	Rosewood-LT
♠	3778	Terra Cotta-LT	3864	Mocha Beige-LT
♠	758	Terra Cotta-VY LT	3864	Mocha Beige-LT
♠	842	Beige Brown-VY LT	224	Shell Pink-VY LT
♠	3859	Rosewood-LT	3861	Cocoa-LT
♠	356	Terra Cotta-MD	3772	Desert Sand-VY DK
♠	841	Beige Brown-LT	223	Shell Pink-LT
♠	3733	Dusty Rose	3864	Mocha Beige-LT
♠	840	Beige Brown-MD	3726	Antique Mauve-DK
♠	3772	Desert Sand-VY DK	3726	Antique Mauve-DK
♠	352	Coral-LT	758	Terra Cotta-VY LT
♠	3864	Mocha Beige-LT	760	Salmon
♠	760	Salmon	3778	Terra Cotta-LT
♠	948	Peach-VY LT	353	Peach
♠	353	Peach	3770	Tawny -VY LT
♠	3770	Tawny -VY LT	3713	Salmon-VY LT
♠	3722	Shell Pink-MD	3859	Rosewood-LT
♠	356	Terra Cotta-MD	3328	Salmon-DK
♠	3856	Mahogany-UL VY LT	758	Terra Cotta-VY LT
♠	738	Tan-VY LT	758	Terra Cotta-VY LT
♠	951	Tawny -LT	754	Peach-LT
♠	3825	Pumpkin-Pale	758	Terra Cotta-VY LT
♠	632	Desert Sand-UL VY DK	3830	Terra Cotta-MD
♠	3857	Rosewood-DK	3858	Rosewood-MD
♠	356	Terra Cotta-MD	3830	Terra Cotta-MD
♠	3778	Terra Cotta-LT	356	Terra Cotta-MD
♠	356	Terra Cotta-MD	3721	Shell Pink-DK
♠	3722	Shell Pink-MD	3864	Mocha Beige-LT

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III	3778	Terra Cotta-LT	3859	Rosewood-LT
↑	758	Terra Cotta-VY LT	760	Salmon
⊗	840	Beige Brown-MD	3722	Shell Pink-MD
⊥	3779	Terra Cotta-UL VY LT	3824	Apricot-LT
5	352	Coral-LT	3779	Terra Cotta-UL VY LT
+	760	Salmon	224	Shell Pink-VY LT
☺	315	Antique Mauve-VY DK	3772	Desert Sand-VY DK
†	3864	Mocha Beige-LT	223	Shell Pink-LT
≡	3041	Antique Violet-MD	3726	Antique Mauve-DK
⊕	3041	Antique Violet-MD	223	Shell Pink-LT
↑	3042	Antique Violet-LT	3861	Cocoa-LT
√	3774	Desert Sand-VY LT	950	Desert Sand-LT
..	950	Desert Sand-LT	754	Peach-LT
n	950	Desert Sand-LT	353	Peach
⊥	3864	Mocha Beige-LT	224	Shell Pink-VY LT
4	224	Shell Pink-VY LT	3778	Terra Cotta-LT
‡	3778	Terra Cotta-LT	758	Terra Cotta-VY LT
‡	407	Desert Sand-DK	760	Salmon
○	224	Shell Pink-VY LT	758	Terra Cotta-VY LT
H	945	Tawny	3779	Terra Cotta-UL VY LT
Y	945	Tawny	224	Shell Pink-VY LT
∩	3778	Terra Cotta-LT	437	Tan-LT
∩	3864	Mocha Beige-LT	437	Tan-LT
9	437	Tan-LT	758	Terra Cotta-VY LT
≡	437	Tan-LT	760	Salmon
?	3824	Apricot-LT	758	Terra Cotta-VY LT
T	758	Terra Cotta-VY LT	945	Tawny
∞	3824	Apricot-LT	945	Tawny
⊗	420	Hazelnut Brown-DK	356	Terra Cotta-MD
X	3859	Rosewood-LT	407	Desert Sand-DK
○	738	Tan-VY LT	3864	Mocha Beige-LT
∩	3859	Rosewood-LT	436	Tan
▲	436	Tan	3772	Desert Sand-VY DK
⊕	436	Tan	356	Terra Cotta-MD
►	3721	Shell Pink-DK	3830	Terra Cotta-MD
⊗	3858	Rosewood-MD	355	Terra Cotta-DK
☯	413	Pewter Gray -DK	3768	Gray Green-DK
▷	3768	Gray Green-DK	3799	Pewter Gray -VY DK
◎	931	Antique Blue-MD	317	Pewter Gray
■	3740	Antique Violet-DK	317	Pewter Gray
♥	823	Navy Blue-DK	413	Pewter Gray -DK
<	453	Shell Gray-LT	543	Beige Brown-UL VY LT
«	3865	Winter White	819	Baby Pink-LT
>	3713	Salmon-VY LT	3743	Antique Violet-VY LT
↓	3802	Antique Mauve-VY DK	838	Beige Brown-VY DK
*	3740	Antique Violet-DK	3041	Antique Violet-MD
/	223	Shell Pink-LT	3861	Cocoa-LT
☯	3861	Cocoa-LT	224	Shell Pink-VY LT
↔	407	Desert Sand-DK	437	Tan-LT
+	3860	Cocoa	3862	Mocha Beige-DK
✱	3802	Antique Mauve-VY DK	3862	Mocha Beige-DK
◎	315	Antique Mauve-VY DK	3862	Mocha Beige-DK
†	415	Pearl Gray	452	Shell Gray-MD
›	842	Beige Brown-VY LT	452	Shell Gray-MD
0	452	Shell Gray-MD	453	Shell Gray-LT
▲	3862	Mocha Beige-DK	839	Beige Brown-DK
□	762	Pearl Gray-VY LT	3743	Antique Violet-VY LT
I	3756	Baby Blue-UL VY LT	225	Shell Pink-UL VY LT
L	414	Steel Gray-DK	3042	Antique Violet-LT

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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	377	148	359	141	323	127
224	Shell Pink-VY LT	706	277	673	264	605	238
225	Shell Pink-UL VY LT	345	135	328	129	295	116
315	Antique Mauve-VY DK	478	188	455	179	410	161
317	Pewter Gray	2631	1035	2505	986	2255	887
318	Steel Gray-LT	13	5	12	4	11	4
352	Coral-LT	14	5	13	5	12	4
353	Peach	289	113	276	108	248	97
355	Terra Cotta-DK	225	88	214	84	193	75
356	Terra Cotta-MD	169	66	161	63	144	56
372	Mustard-LT	46	18	44	17	40	15
407	Desert Sand-DK	248	97	236	92	213	83
413	Pewter Gray -DK	3905	1537	3719	1464	3347	1317
414	Steel Gray -DK	1018	400	969	381	872	343
415	Pearl Gray	419	164	399	157	359	141
420	Hazelnut Brown-DK	50	19	47	18	42	16
436	Tan	98	38	93	36	84	33
437	Tan-LT	149	58	142	55	128	50
451	Shell Gray-DK	1614	635	1537	605	1383	544
452	Shell Gray-MD	1555	612	1480	582	1332	524
453	Shell Gray-LT	792	311	754	296	679	267
543	Beige Brown-UL VY LT	456	179	434	170	391	153
632	Desert Sand-UL VY DK	172	67	164	64	148	58
645	Beaver Gray-VY DK	913	359	870	342	783	308
738	Tan-VY LT	78	30	75	29	67	26
739	Tan-UL VY LT	20	7	19	7	17	6
754	Peach-LT	112	44	106	41	96	37
758	Terra Cotta-VY LT	490	192	467	183	420	165
760	Salmon	91	35	86	33	78	30
762	Pearl Gray-VY LT	70	27	67	26	60	23
819	Baby Pink-LT	684	269	652	256	586	230
822	Beige Gray-LT	305	120	291	114	261	102
823	Navy Blue-DK	5259	2070	5009	1972	4508	1774
838	Beige Brown-VY DK	289	113	276	108	248	97
839	Beige Brown-DK	1530	602	1457	573	1311	516
840	Beige Brown-MD	568	223	541	212	487	191
841	Beige Brown-LT	177	69	168	66	151	59
842	Beige Brown-VY LT	1065	419	1015	399	913	359
844	Beaver Brown-UL DK	2887	1136	2749	1082	2474	974
928	Gray Green-VY LT	44	17	42	16	38	14
931	Antique Blue-MD	138	54	131	51	118	46
934	Black Avocado Green	37	14	35	13	32	12
939	Navy Blue-VY DK	742	292	706	277	636	250
945	Tawny	254	100	242	95	218	85
948	Peach-VY LT	257	101	244	96	220	86
950	Desert Sand-LT	1005	395	957	376	861	338
951	Tawny -LT	65	25	62	24	56	22
3021	Brown Gray-VY DK	1001	394	953	375	858	337
3023	Brown Gray-LT	77	30	73	28	66	25
3031	Mocha Brown-VY DK	2299	905	2189	861	1970	775
3032	Mocha Brown-MD	40	15	38	14	35	13
3041	Antique Violet-MD	2340	921	2229	877	2006	789
3042	Antique Violet-LT	1552	611	1478	581	1330	523
3064	Desert Sand	77	30	74	29	66	25

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3328	Salmon-DK	2	1	2	1	2	1
3340	Apricot-MD	1	1	1	1	1	1
3712	Salmon- MD	1	1	1	1	1	1
3713	Salmon-VY LT	306	120	291	114	262	103
3721	Shell Pink-DK	351	138	334	131	301	118
3722	Shell Pink-MD	154	60	147	57	132	51
3726	Antique Mauve-DK	230	90	219	86	197	77
3733	Dusty Rose	22	8	21	8	19	7
3740	Antique Violet-DK	2480	976	2362	929	2126	837
3743	Antique Violet-VY LT	298	117	283	111	255	100
3756	Baby Blue-UL VY LT	57	22	54	21	49	19
3768	Gray Green-DK	814	320	775	305	698	274
3770	Tawny -VY LT	542	213	516	203	464	182
3772	Desert Sand-VY DK	676	266	644	253	579	227
3774	Desert Sand-VY LT	665	261	633	249	570	224
3778	Terra Cotta-LT	310	122	295	116	265	104
3779	Terra Cotta-UL VY LT	92	36	88	34	79	31
3782	Mocha Brown-LT	84	33	80	31	72	28
3787	Brown Gray -DK	91	35	87	34	78	30
3799	Pewter Gray -VY DK	6738	2652	6417	2526	5775	2273
3802	Antique Mauve-VY DK	709	279	675	265	608	239
3824	Apricot-LT	51	20	49	19	44	17
3825	Pumpkin-Pale	8	3	8	3	7	2
3830	Terra Cotta-MD	121	47	115	45	103	40
3856	Mahogany-UL VY LT	49	19	46	18	42	16
3857	Rosewood-DK	121	47	115	45	104	40
3858	Rosewood-MD	607	238	578	227	520	204
3859	Rosewood-LT	476	187	453	178	408	160
3860	Cocoa	1892	744	1802	709	1622	638
3861	Cocoa-LT	4900	1929	4667	1837	4200	1653
3862	Mocha Beige-DK	708	278	674	265	607	238
3864	Mocha Beige-LT	1069	420	1018	400	916	360
3865	Winter White	685	269	653	257	587	231

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	581	229	485	191	242	95
224	Shell Pink-VY LT	1089	428	908	357	454	179
225	Shell Pink-UL VY LT	531	209	443	174	221	87
315	Antique Mauve-VY DK	738	290	615	242	308	121
317	Pewter Gray	4059	1597	3383	1331	1691	665
318	Steel Gray-LT	20	7	17	6	8	3
352	Coral-LT	22	7	18	6	9	3
353	Peach	446	175	372	146	186	73
355	Terra Cotta-DK	347	135	290	113	145	56
356	Terra Cotta-MD	259	101	216	84	108	42
372	Mustard-LT	72	27	60	23	30	11
407	Desert Sand-DK	383	149	320	125	160	62
413	Pewter Gray -DK	6025	2371	5021	1976	2510	988
414	Steel Gray -DK	1570	617	1308	515	654	257
415	Pearl Gray	646	254	539	212	269	106
420	Hazelnut Brown-DK	76	29	63	24	32	12
436	Tan	151	59	126	50	63	25
437	Tan-LT	230	90	192	75	96	38
451	Shell Gray-DK	2489	979	2075	816	1037	408



452	Shell Gray-MD	2398	943	1998	786	999	393
453	Shell Gray-LT	1222	481	1019	401	509	200
543	Beige Brown-UL VY LT	704	275	587	230	293	115
632	Desert Sand-UL VY DK	266	104	222	87	111	44
645	Beaver Gray-VY DK	1409	554	1175	462	587	231
738	Tan-VY LT	121	47	101	39	50	20
739	Tan-UL VY LT	31	11	26	9	13	5
754	Peach-LT	173	67	144	56	72	28
758	Terra Cotta-VY LT	756	297	630	248	315	124
760	Salmon	140	54	117	45	59	23
762	Pearl Gray-VY LT	108	41	90	35	45	17
819	Baby Pink-LT	1055	414	879	345	440	173
822	Beige Gray-LT	470	184	392	153	196	77
823	Navy Blue-DK	8114	3193	6762	2661	3381	1331
838	Beige Brown-VY DK	446	175	372	146	186	73
839	Beige Brown-DK	2360	929	1967	774	983	387
840	Beige Brown-MD	877	344	731	287	365	143
841	Beige Brown-LT	272	106	227	89	113	44
842	Beige Brown-VY LT	1643	646	1370	539	685	269
844	Beaver Brown-UL DK	4453	1753	3711	1461	1856	731
928	Gray Green-VY LT	68	25	57	21	29	11
931	Antique Blue-MD	212	83	177	69	89	35
934	Black Avocado Green	58	22	48	18	24	9
939	Navy Blue-VY DK	1145	450	954	375	477	188
945	Tawny	392	153	327	128	164	64
948	Peach-VY LT	396	155	330	129	165	65
950	Desert Sand-LT	1550	608	1292	507	646	254
951	Tawny-LT	101	40	84	33	42	17
3021	Brown Gray-VY DK	1544	607	1287	506	644	253
3023	Brown Gray-LT	119	45	99	38	50	19
3031	Mocha Brown-VY DK	3546	1395	2955	1163	1478	581
3032	Mocha Brown-MD	63	23	53	20	26	10
3041	Antique Violet-MD	3611	1420	3009	1184	1505	592
3042	Antique Violet-LT	2394	941	1995	785	998	392
3064	Desert Sand	119	45	99	38	50	19
3328	Salmon-DK	4	2	3	2	2	1
3340	Apricot-MD	2	2	2	2	1	1
3712	Salmon-MD	2	2	2	2	1	1
3713	Salmon-VY LT	472	185	393	155	197	77
3721	Shell Pink-DK	542	212	452	177	226	89
3722	Shell Pink-MD	238	92	198	77	99	38
3726	Antique Mauve-DK	355	139	296	116	148	58
3733	Dusty Rose	34	13	29	11	14	5
3740	Antique Violet-DK	3827	1507	3189	1256	1595	628
3743	Antique Violet-VY LT	459	180	383	150	191	75
3756	Baby Blue-UL VY LT	88	34	74	29	37	14
3768	Gray Green-DK	1256	493	1047	411	524	206
3770	Tawny-VY LT	835	328	696	273	348	137
3772	Desert Sand-VY DK	1042	409	869	341	434	170
3774	Desert Sand-VY LT	1026	403	855	336	428	168
3778	Terra Cotta-LT	477	187	398	156	199	78
3779	Terra Cotta-UL VY LT	142	56	119	47	59	23
3782	Mocha Brown-LT	130	50	108	42	54	21
3787	Brown Gray-DK	140	54	117	45	59	23
3799	Pewter Gray-VY DK	10395	4091	8663	3410	4331	1705
3802	Antique Mauve-VY DK	1094	430	912	359	456	179
3824	Apricot-LT	79	31	66	26	33	13
3825	Pumpkin-Pale	13	4	11	3	5	2
3830	Terra Cotta-MD	185	72	155	60	77	30

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3856	Mahogany-UL VY LT	76	29	63	24	32	12
3857	Rosewood-DK	187	72	156	60	78	30
3858	Rosewood-MD	936	367	780	306	390	153
3859	Rosewood-LT	734	288	612	240	306	120
3860	Cocoa	2920	1148	2433	957	1217	479
3861	Cocoa-LT	7560	2975	6300	2480	3150	1240
3862	Mocha Beige-DK	1093	428	911	357	455	179
3864	Mocha Beige-LT	1649	648	1374	540	687	270
3865	Winter White	1057	416	881	347	440	173

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	233	91	224	88	215	85
224	Shell Pink-VY LT	436	171	419	165	403	159
225	Shell Pink-UL VY LT	212	84	204	80	197	77
315	Antique Mauve-VY DK	295	116	284	111	273	107
317	Pewter Gray	1624	639	1561	614	1503	591
318	Steel Gray-LT	8	3	8	3	7	3
352	Coral-LT	9	3	8	3	8	3
353	Peach	179	70	172	67	165	65
355	Terra Cotta-DK	139	54	134	52	129	50
356	Terra Cotta-MD	104	40	100	39	96	37
372	Mustard-LT	29	11	28	10	27	10
407	Desert Sand-DK	153	60	147	57	142	55
413	Pewter Gray -DK	2410	948	2317	912	2231	878
414	Steel Gray-DK	628	247	604	237	581	229
415	Pearl Gray	258	102	249	98	239	94
420	Hazelnut Brown-DK	30	12	29	11	28	11
436	Tan	60	24	58	23	56	22
437	Tan-LT	92	36	89	35	85	33
451	Shell Gray-DK	996	392	957	377	922	363
452	Shell Gray-MD	959	377	922	363	888	349
453	Shell Gray-LT	489	192	470	185	453	178
543	Beige Brown-UL VY LT	282	110	271	106	261	102
632	Desert Sand-UL VY DK	107	42	102	40	99	39
645	Beaver Gray-VY DK	564	222	542	213	522	205
738	Tan-VY LT	48	19	46	18	45	17
739	Tan-UL VY LT	12	4	12	4	11	4
754	Peach-LT	69	27	66	26	64	25
758	Terra Cotta-VY LT	302	119	291	114	280	110
760	Salmon	56	22	54	21	52	20
762	Pearl Gray-VY LT	43	17	42	16	40	15
819	Baby Pink-LT	422	166	406	159	391	153
822	Beige Gray-LT	188	73	181	71	174	68
823	Navy Blue-DK	3246	1277	3121	1228	3005	1183
838	Beige Brown-VY DK	179	70	172	67	165	65
839	Beige Brown-DK	944	372	908	357	874	344
840	Beige Brown-MD	351	138	337	132	325	127
841	Beige Brown-LT	109	42	105	41	101	39
842	Beige Brown-VY LT	657	258	632	249	609	239
844	Beaver Brown-UL DK	1781	701	1713	674	1649	649
928	Gray Green-VY LT	27	10	26	10	25	9
931	Antique Blue-MD	85	33	82	32	79	31
934	Black Avocado Green	23	9	22	8	21	8
939	Navy Blue-VY DK	458	180	440	173	424	167

945	Tawny	157	61	151	59	145	57
948	Peach-VY LT	158	62	152	60	147	57
950	Desert Sand-LT	620	243	596	234	574	225
951	Tawny -LT	40	16	39	15	37	15
3021	Brown Gray -VY DK	618	243	594	233	572	225
3023	Brown Gray -LT	48	18	46	17	44	17
3031	Mocha Brown-VY DK	1418	558	1364	537	1313	517
3032	Mocha Brown-MD	25	9	24	9	23	9
3041	Antique Violet-MD	1444	568	1389	546	1337	526
3042	Antique Violet-LT	958	377	921	362	887	349
3064	Desert Sand	48	18	46	17	44	17
3328	Salmon-DK	1	1	1	1	1	1
3340	Apricot-MD	1	1	1	1	1	1
3712	Salmon- MD	1	1	1	1	1	1
3713	Salmon-VY LT	189	74	181	71	175	69
3721	Shell Pink-DK	217	85	208	82	201	79
3722	Shell Pink-MD	95	37	91	35	88	34
3726	Antique Mauve-DK	142	55	136	53	131	51
3733	Dusty Rose	14	5	13	5	13	5
3740	Antique Violet-DK	1531	603	1472	579	1417	558
3743	Antique Violet-VY LT	184	72	177	69	170	67
3756	Baby Blue-UL VY LT	35	14	34	13	33	13
3768	Gray Green-DK	503	197	483	190	465	183
3770	Tawny -VY LT	334	131	321	126	309	121
3772	Desert Sand-VY DK	417	163	401	157	386	151
3774	Desert Sand-VY LT	410	161	395	155	380	149
3778	Terra Cotta-LT	191	75	183	72	177	69
3779	Terra Cotta-UL VY LT	57	22	55	21	53	21
3782	Mocha Brown-LT	52	20	50	19	48	19
3787	Brown Gray -DK	56	22	54	21	52	20
3799	Pewter Gray -VY DK	4158	1637	3998	1574	3850	1515
3802	Antique Mauve-VY DK	438	172	421	165	405	159
3824	Apricot-LT	32	12	30	12	29	11
3825	Pumpkin-Pale	5	1	5	1	5	1
3830	Terra Cotta-MD	74	29	71	28	69	27
3856	Mahogany-UL VY LT	30	12	29	11	28	11
3857	Rosewood-DK	75	29	72	28	69	27
3858	Rosewood-MD	374	147	360	141	347	136
3859	Rosewood-LT	294	115	282	111	272	107
3860	Cocoa	1168	459	1123	442	1081	425
3861	Cocoa-LT	3024	1190	2908	1144	2800	1102
3862	Mocha Beige-DK	437	171	420	165	405	159
3864	Mocha Beige-LT	660	259	634	249	611	240
3865	Winter White	423	166	406	160	391	154

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	208	82	194	76	182	71
224	Shell Pink-VY LT	389	153	363	143	340	134
225	Shell Pink-UL VY LT	190	75	177	70	166	65
315	Antique Mauve-VY DK	264	104	246	97	231	91
317	Pewter Gray	1450	570	1353	532	1268	499
318	Steel Gray-LT	7	3	7	2	6	2
352	Coral-LT	8	3	7	2	7	2
353	Peach	159	62	149	58	140	55
355	Terra Cotta-DK	124	48	116	45	109	42

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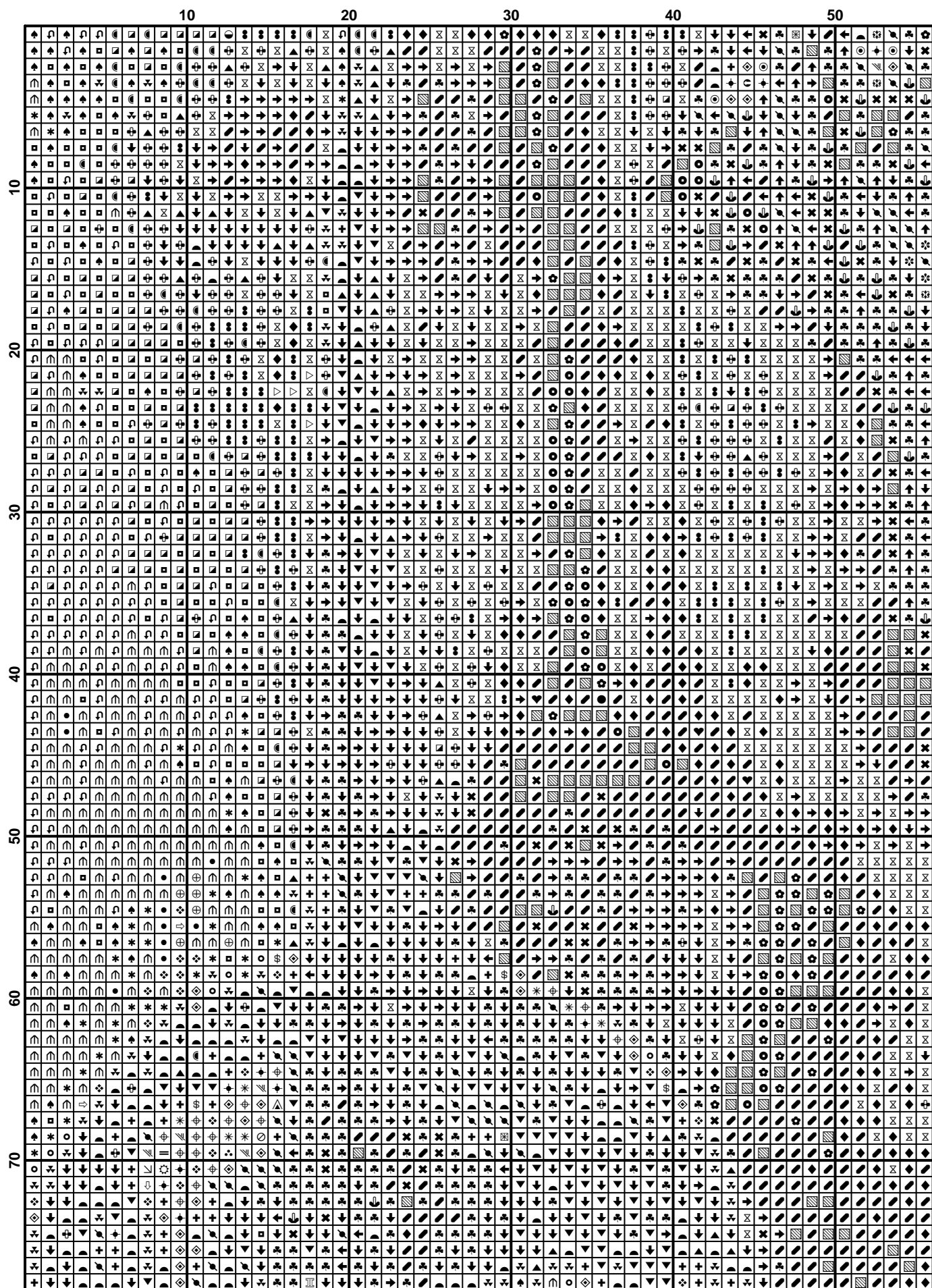
356	Terra Cotta-MD	93	36	86	34	81	32
372	Mustard-LT	26	10	24	9	23	8
407	Desert Sand-DK	137	53	128	50	120	47
413	Pewter Gray -DK	2152	847	2008	790	1883	741
414	Steel Gray-DK	561	221	523	206	491	193
415	Pearl Gray	231	91	215	85	202	79
420	Hazelnut Brown-DK	27	10	25	10	24	9
436	Tan	54	21	50	20	47	19
437	Tan-LT	82	32	77	30	72	28
451	Shell Gray-DK	889	350	830	326	778	306
452	Shell Gray-MD	856	337	799	314	749	295
453	Shell Gray-LT	437	172	407	160	382	150
543	Beige Brown-UL VY LT	251	98	235	92	220	86
632	Desert Sand-UL VY DK	95	37	89	35	83	33
645	Beaver Gray-VY DK	503	198	470	185	440	173
738	Tan-VY LT	43	17	40	16	38	15
739	Tan-UL VY LT	11	4	10	4	10	3
754	Peach-LT	62	24	58	22	54	21
758	Terra Cotta-VY LT	270	106	252	99	236	93
760	Salmon	50	19	47	18	44	17
762	Pearl Gray-VY LT	39	15	36	14	34	13
819	Baby Pink-LT	377	148	352	138	330	129
822	Beige Gray-LT	168	66	157	61	147	57
823	Navy Blue-DK	2898	1140	2705	1064	2536	998
838	Beige Brown-VY DK	159	62	149	58	140	55
839	Beige Brown-DK	843	332	787	310	737	290
840	Beige Brown-MD	313	123	292	115	274	107
841	Beige Brown-LT	97	38	91	35	85	33
842	Beige Brown-VY LT	587	231	548	215	514	202
844	Beaver Brown-UL DK	1590	626	1484	584	1392	548
928	Gray Green-VY LT	24	9	23	8	21	8
931	Antique Blue-MD	76	30	71	28	66	26
934	Black Avocado Green	21	8	19	7	18	7
939	Navy Blue-VY DK	409	161	382	150	358	141
945	Tawry	140	55	131	51	123	48
948	Peach-VY LT	141	55	132	52	124	48
950	Desert Sand-LT	554	217	517	203	484	190
951	Tawny -LT	36	14	34	13	32	12
3021	Brown Gray -VY DK	552	217	515	202	483	190
3023	Brown Gray -LT	42	16	40	15	37	14
3031	Mocha Brown-VY DK	1266	498	1182	465	1108	436
3032	Mocha Brown-MD	23	8	21	8	20	7
3041	Antique Violet-MD	1290	507	1204	473	1128	444
3042	Antique Violet-LT	855	336	798	314	748	294
3064	Desert Sand	42	16	40	15	37	14
3328	Salmon-DK	1	1	1	1	1	1
3340	Apricot-MD	1	1	1	1	1	1
3712	Salmon- MD	1	1	1	1	1	1
3713	Salmon-VY LT	168	66	157	62	147	58
3721	Shell Pink-DK	194	76	181	71	169	66
3722	Shell Pink-MD	85	33	79	31	74	29
3726	Antique Mauve-DK	127	50	118	46	111	43
3733	Dusty Rose	12	5	11	4	11	4
3740	Antique Violet-DK	1367	538	1276	502	1196	471
3743	Antique Violet-VY LT	164	64	153	60	143	56
3756	Baby Blue-UL VY LT	32	12	29	11	28	11
3768	Gray Green-DK	449	176	419	164	393	154
3770	Tawny -VY LT	298	117	278	109	261	102
3772	Desert Sand-VY DK	372	146	347	136	326	128

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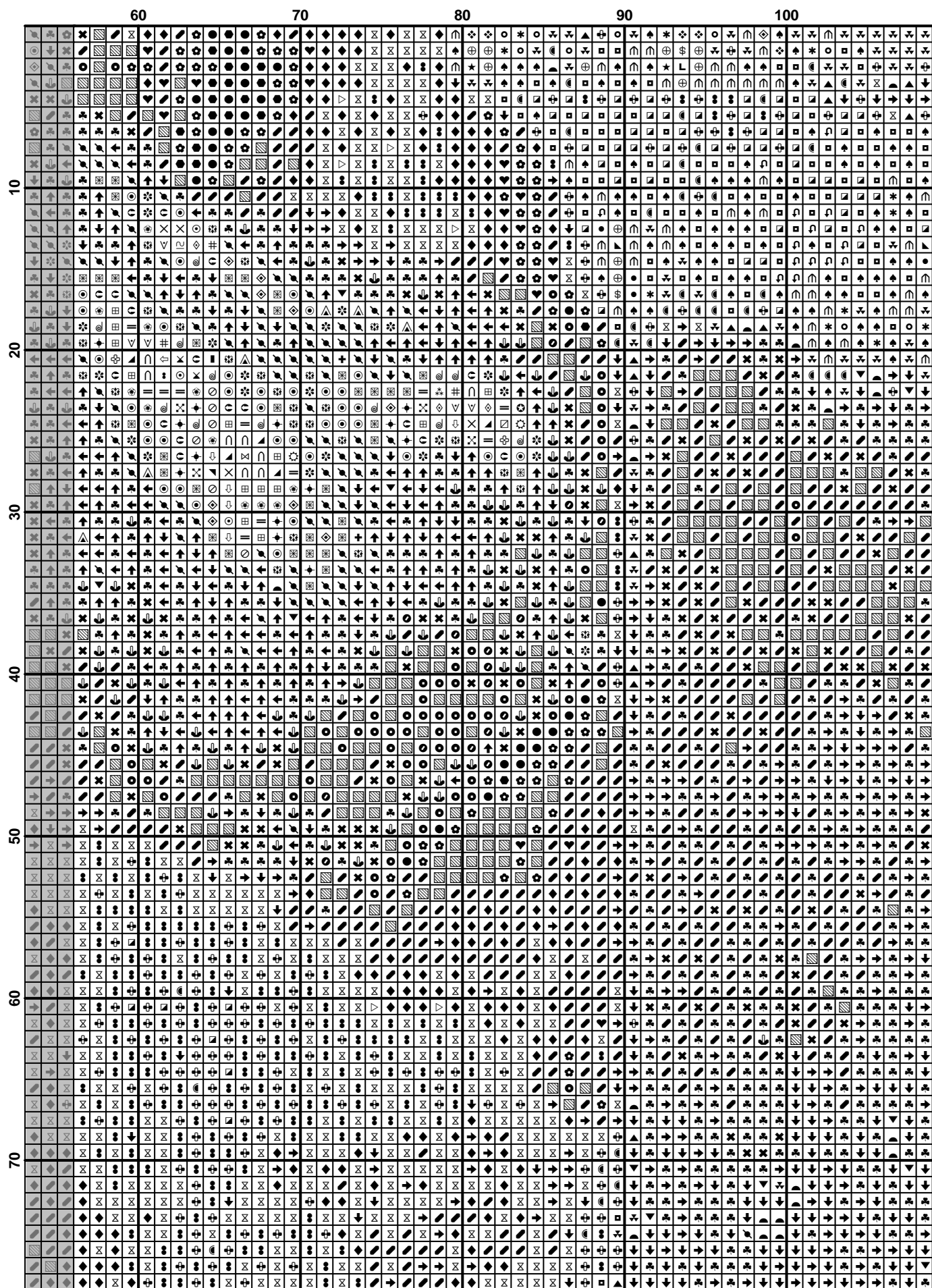
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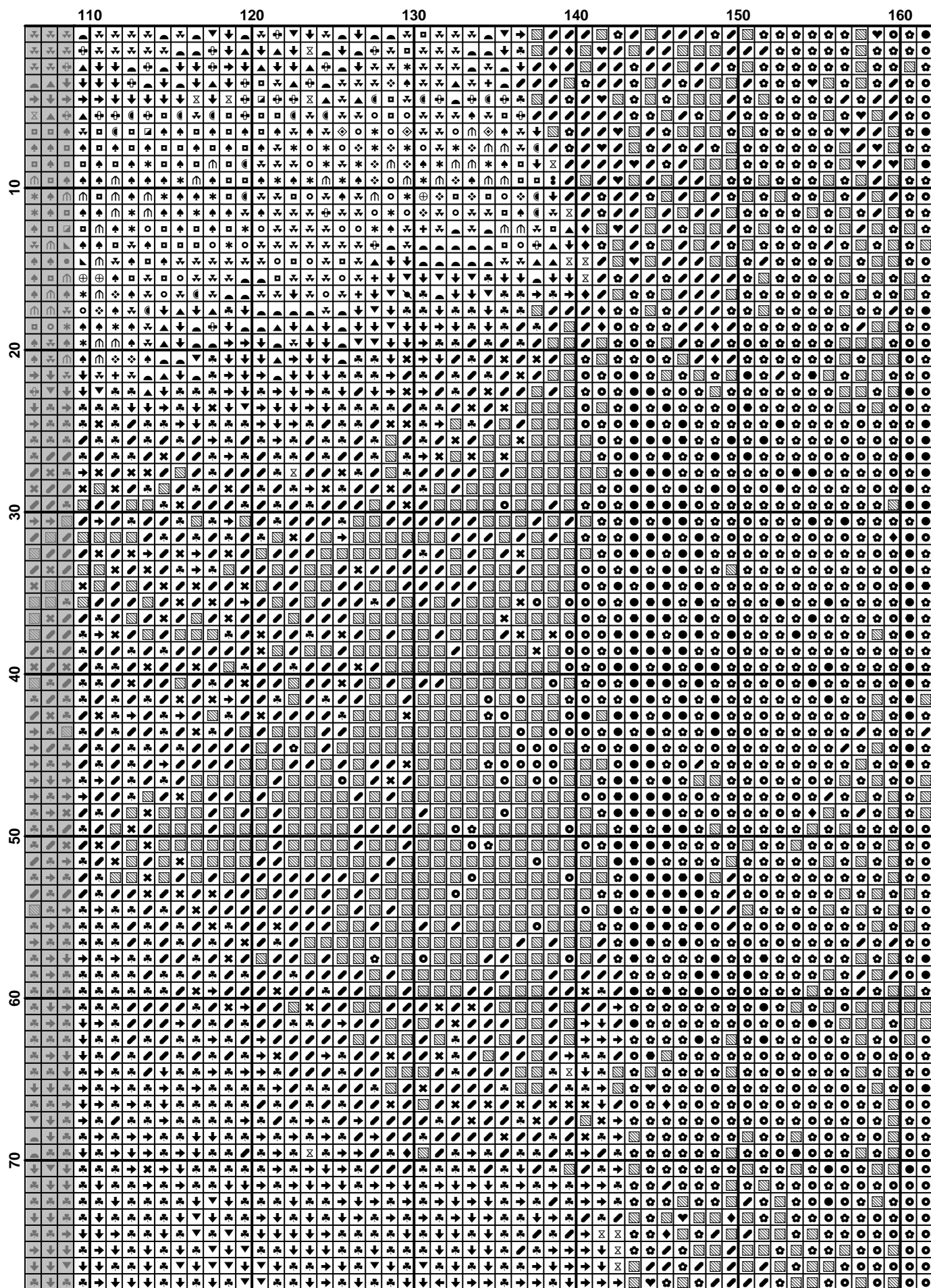
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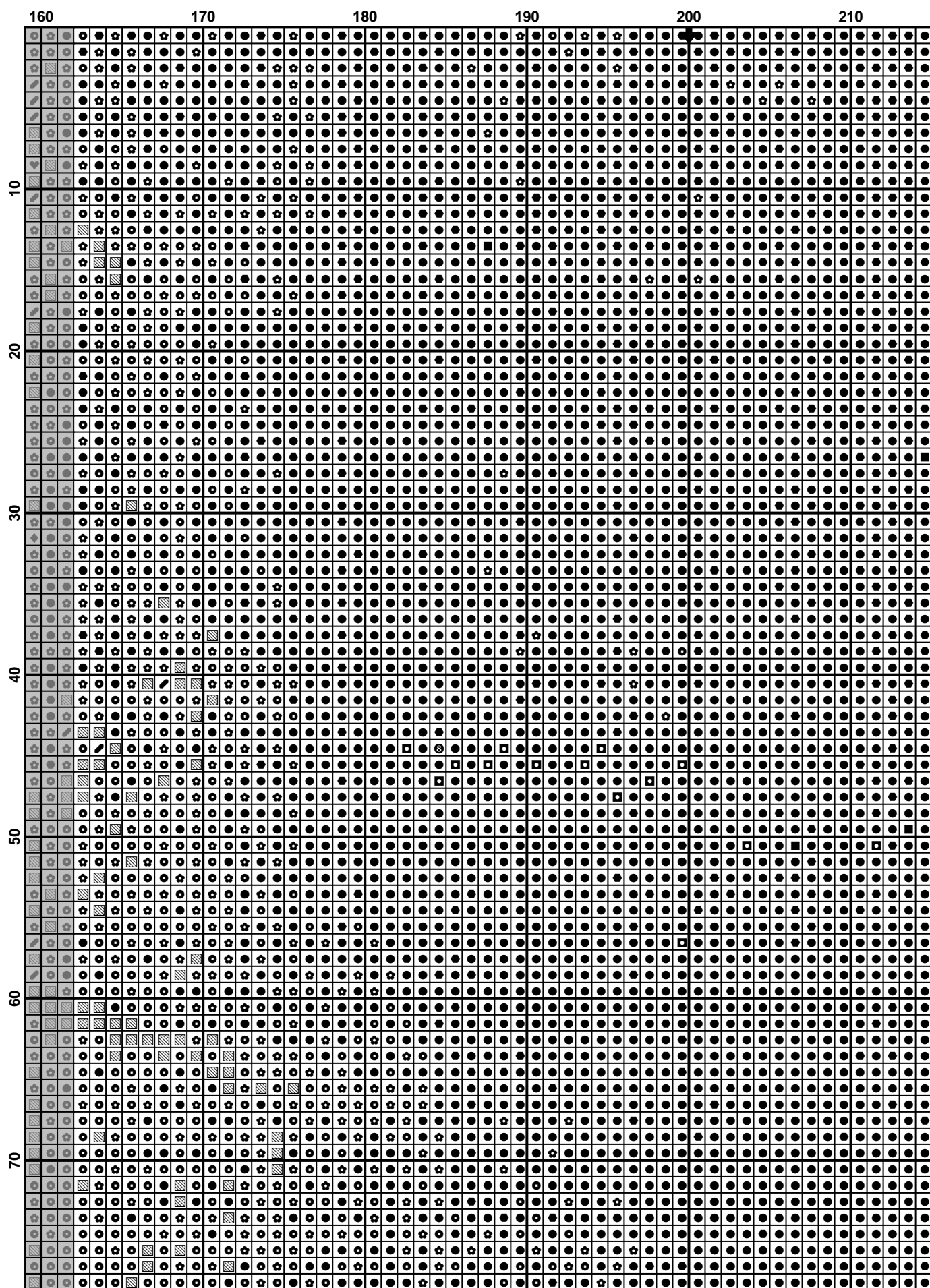
3774	Desert Sand-VY LT	366	144	342	134	321	126
3778	Terra Cotta-LT	170	67	159	62	149	59
3779	Terra Cotta-UL VY LT	51	20	47	19	44	17
3782	Mocha Brown-LT	46	18	43	17	41	16
3787	Brown Gray -DK	50	19	47	18	44	17
3799	Pewter Gray -VY DK	3713	1461	3465	1364	3248	1279
3802	Antique Mauve-VY DK	391	154	365	143	342	134
3824	Apricot-LT	28	11	26	10	25	10
3825	Pumpkin-Pale	5	1	4	1	4	1
3830	Terra Cotta-MD	66	26	62	24	58	23
3856	Mahogany-UL VY LT	27	10	25	10	24	9
3857	Rosewood-DK	67	26	62	24	59	23
3858	Rosewood-MD	334	131	312	122	293	115
3859	Rosewood-LT	262	103	245	96	230	90
3860	Cocoa	1043	410	973	383	912	359
3861	Cocoa-LT	2700	1063	2520	992	2363	930
3862	Mocha Beige-DK	390	153	364	143	341	134
3864	Mocha Beige-LT	589	231	550	216	515	203
3865	Winter White	377	149	352	139	330	130

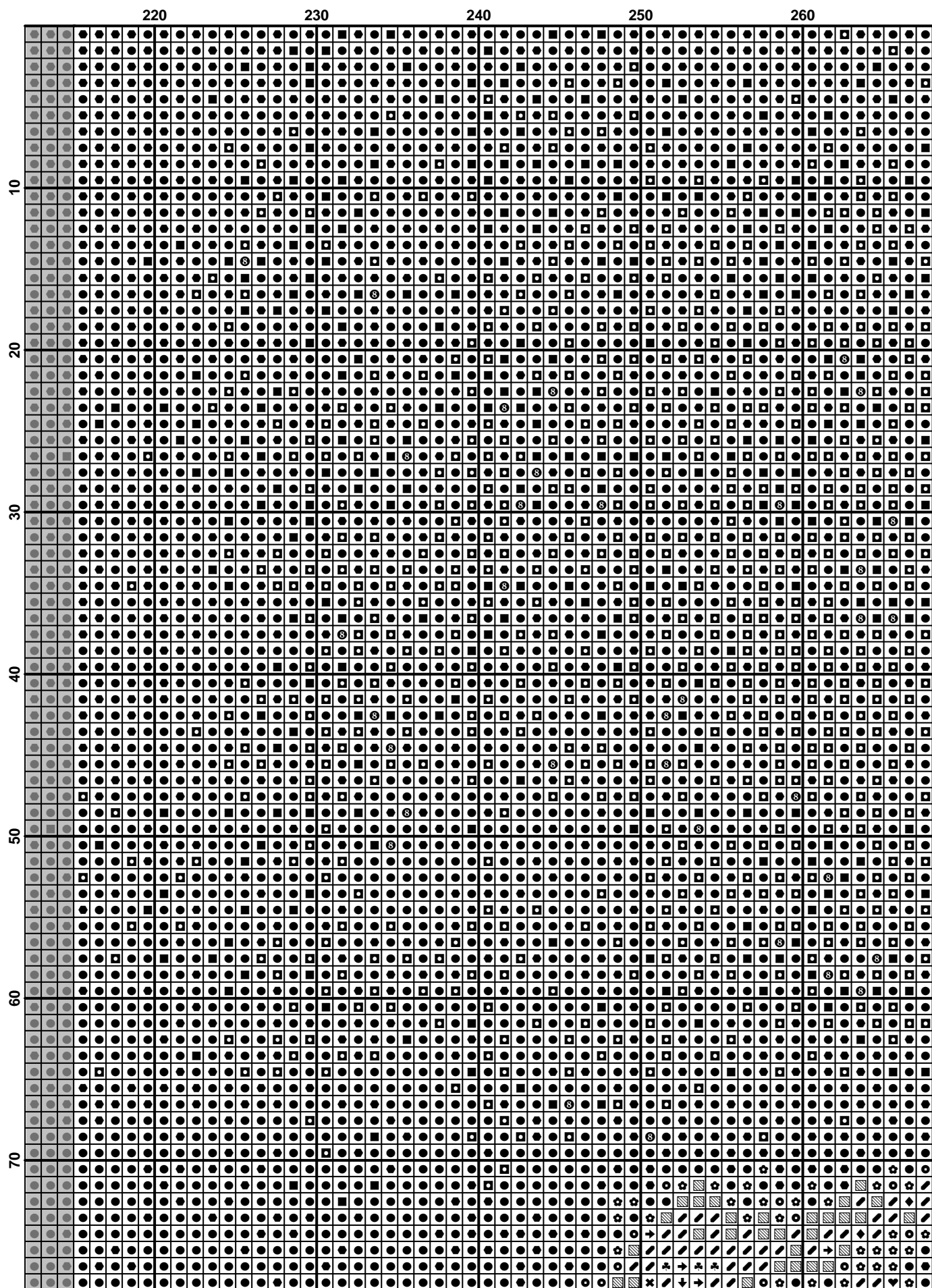


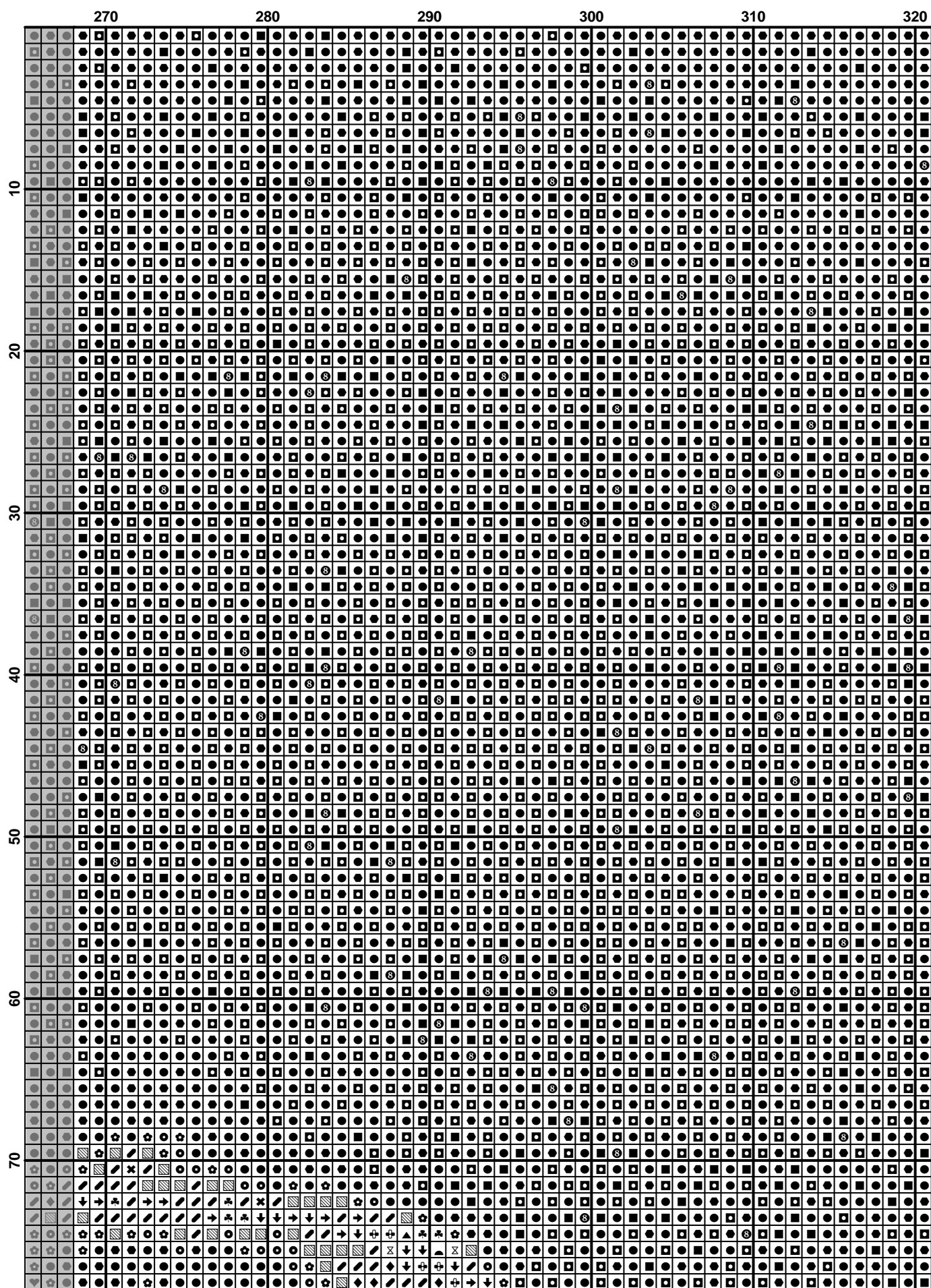


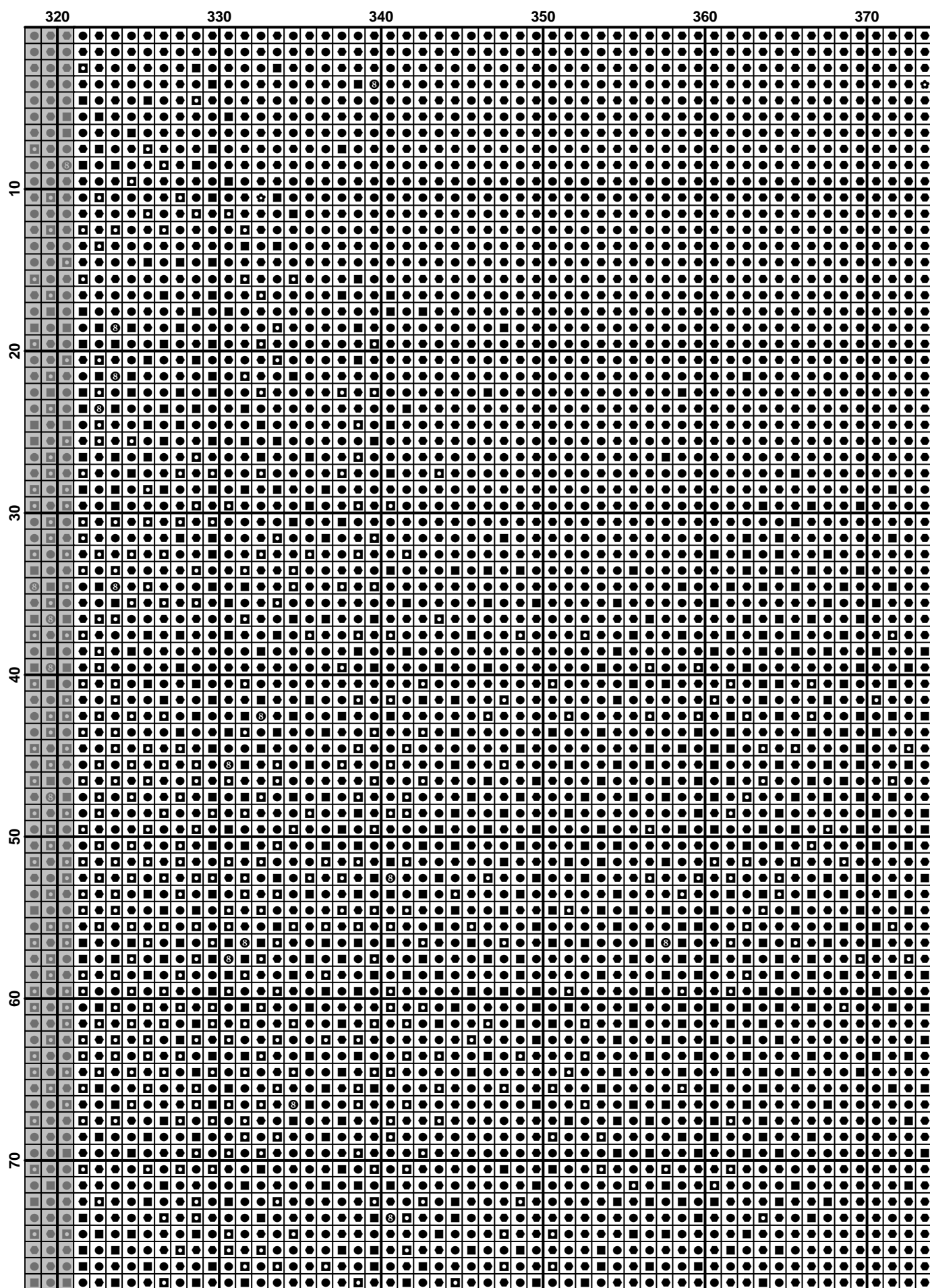




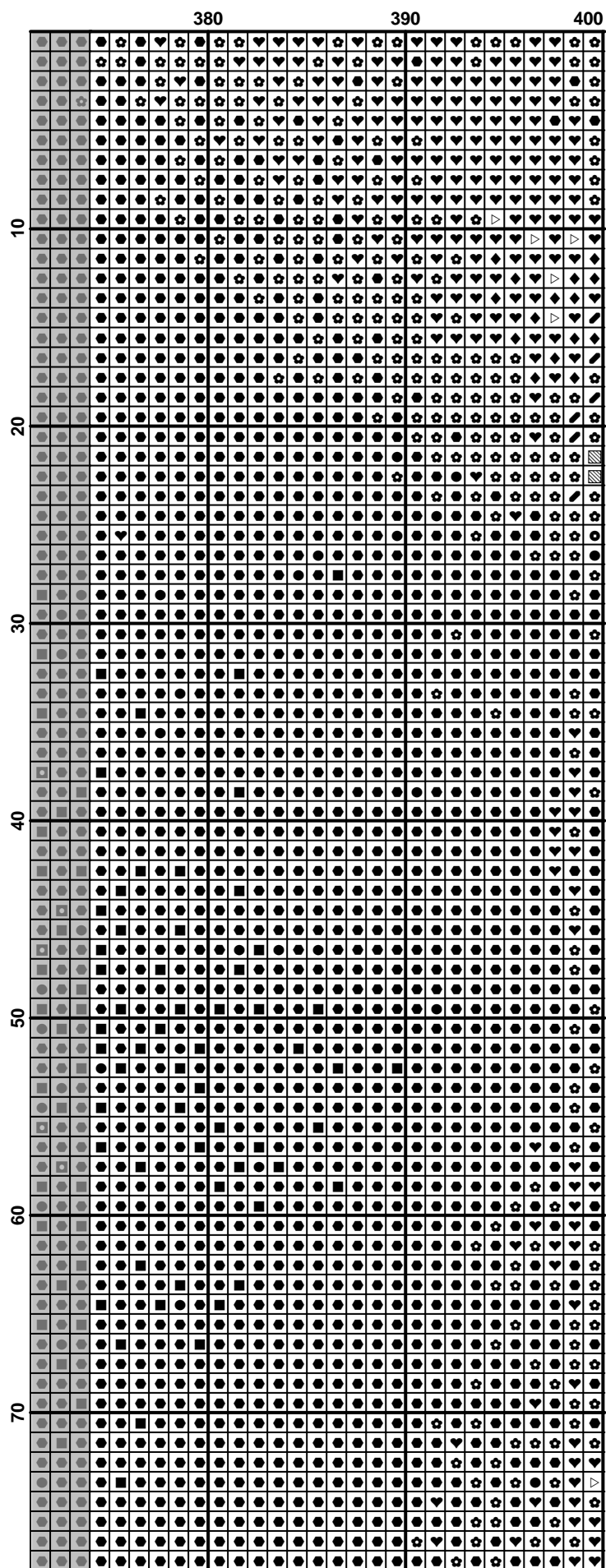


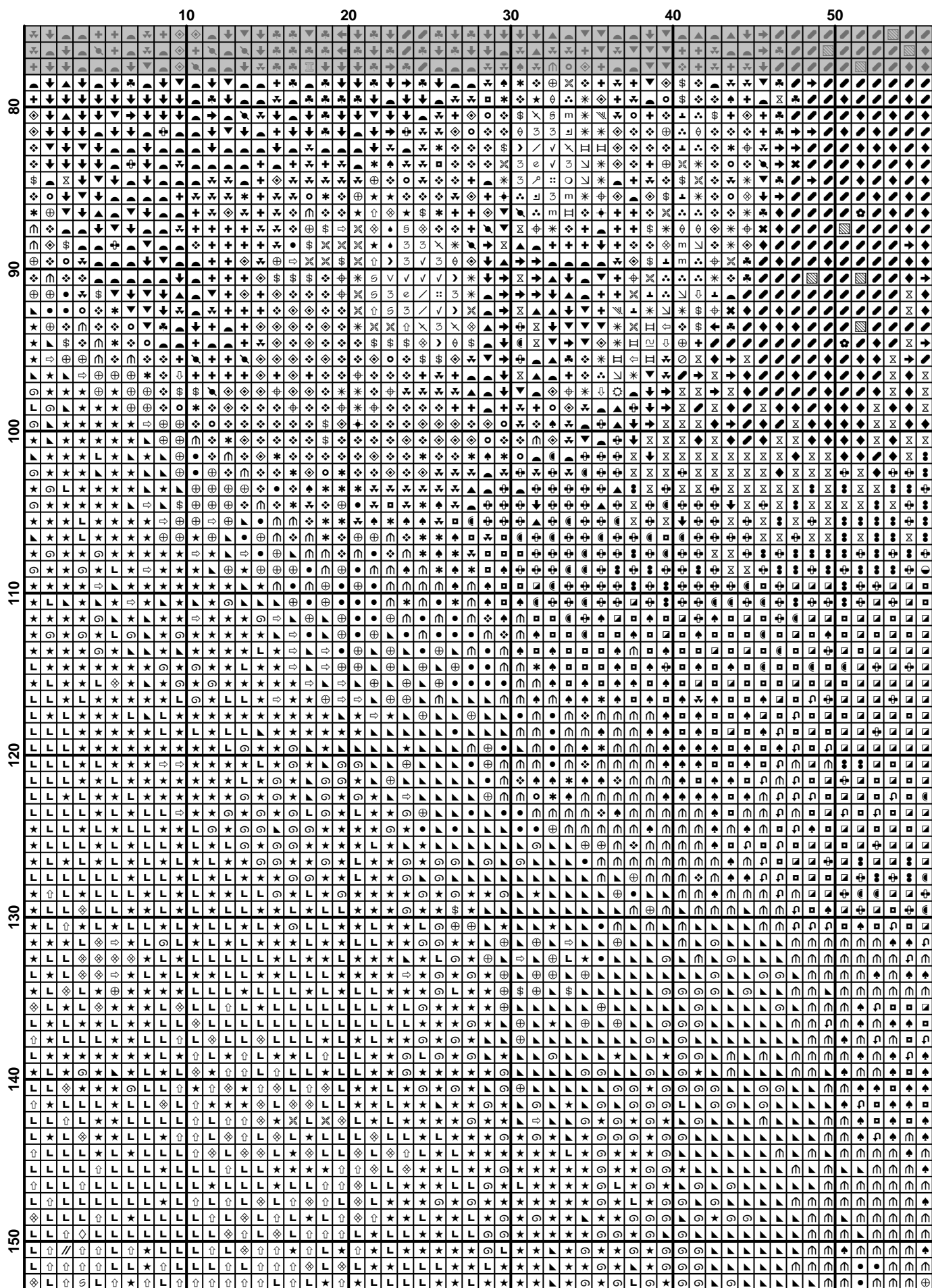


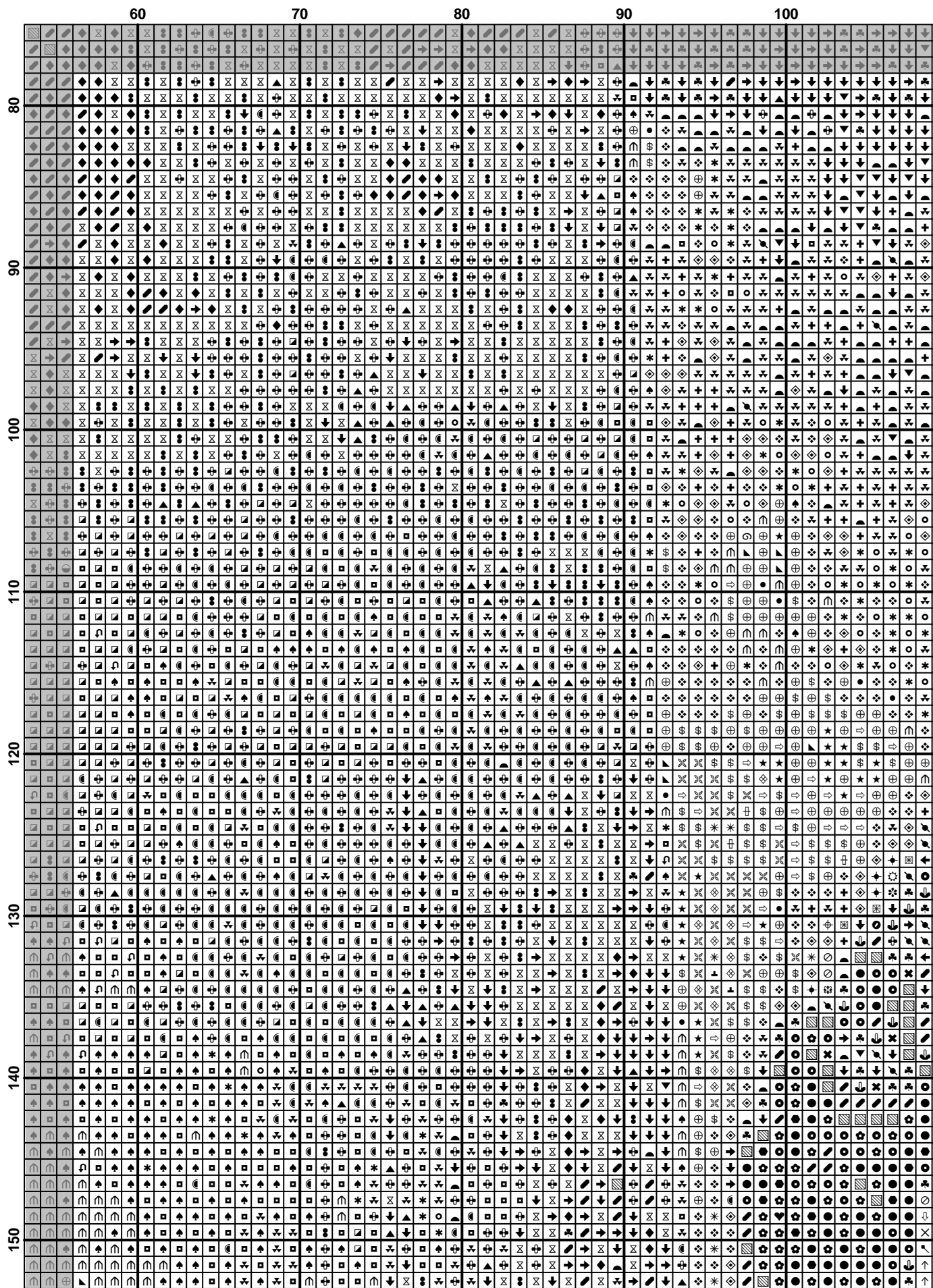


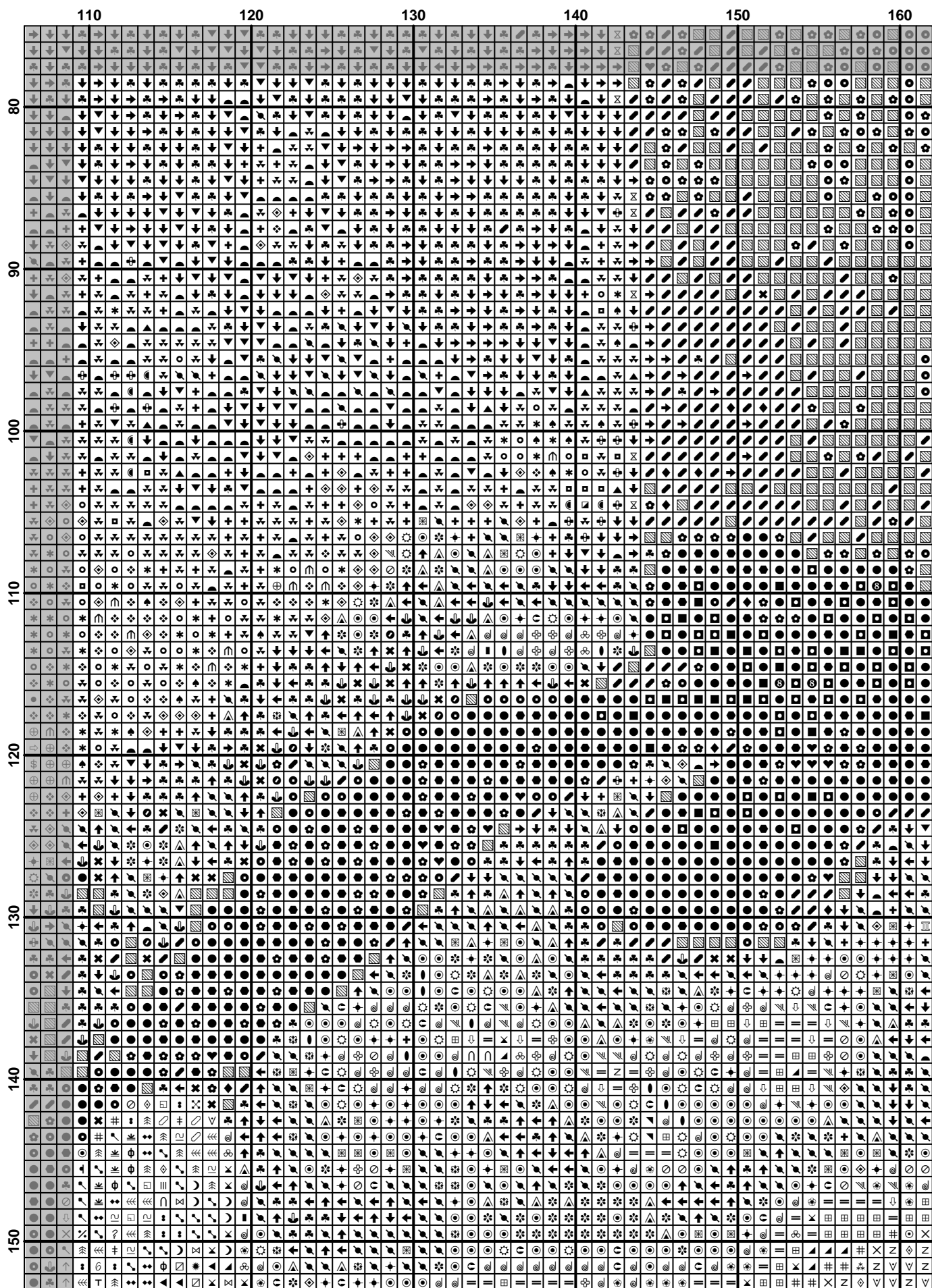


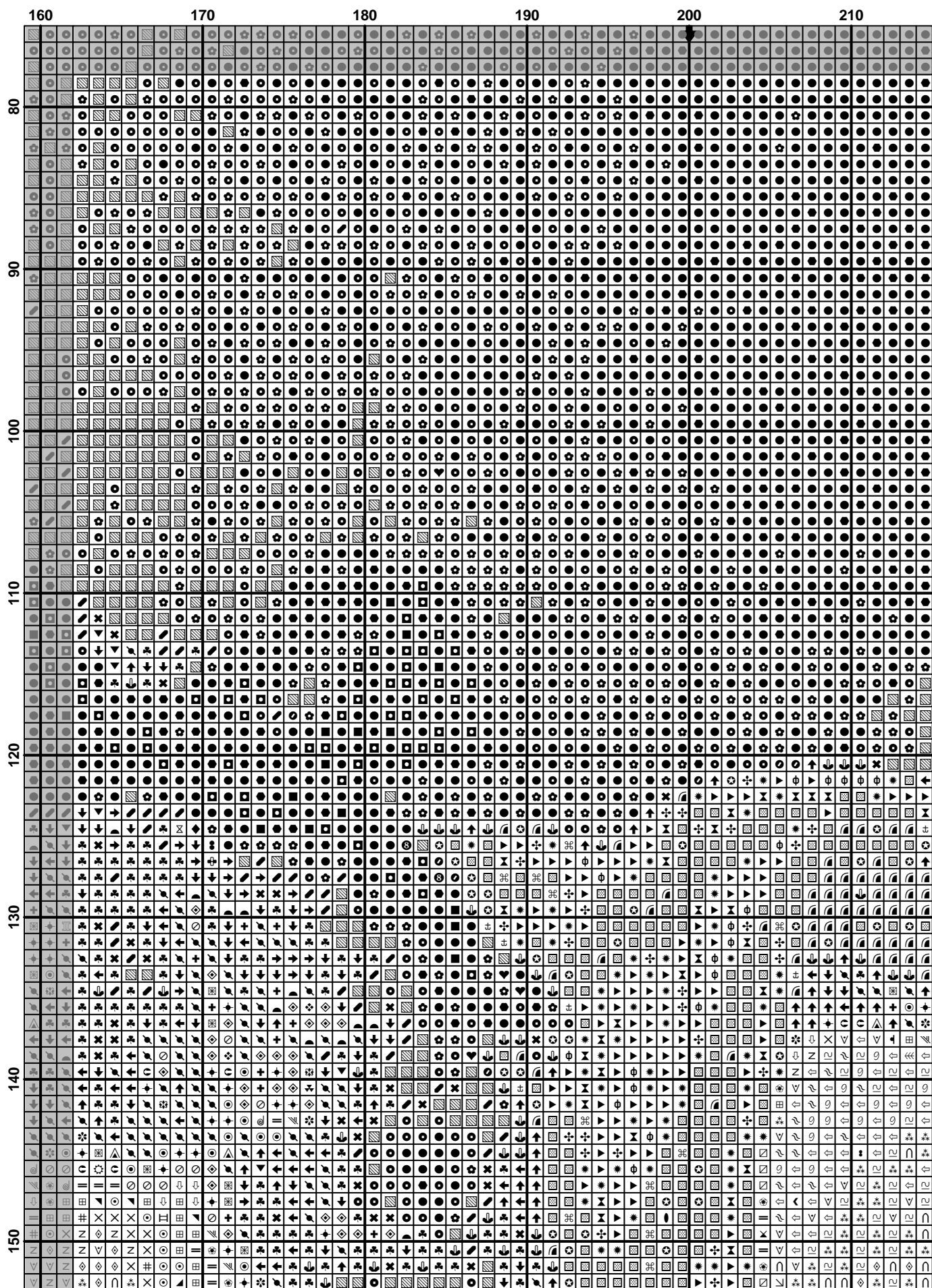


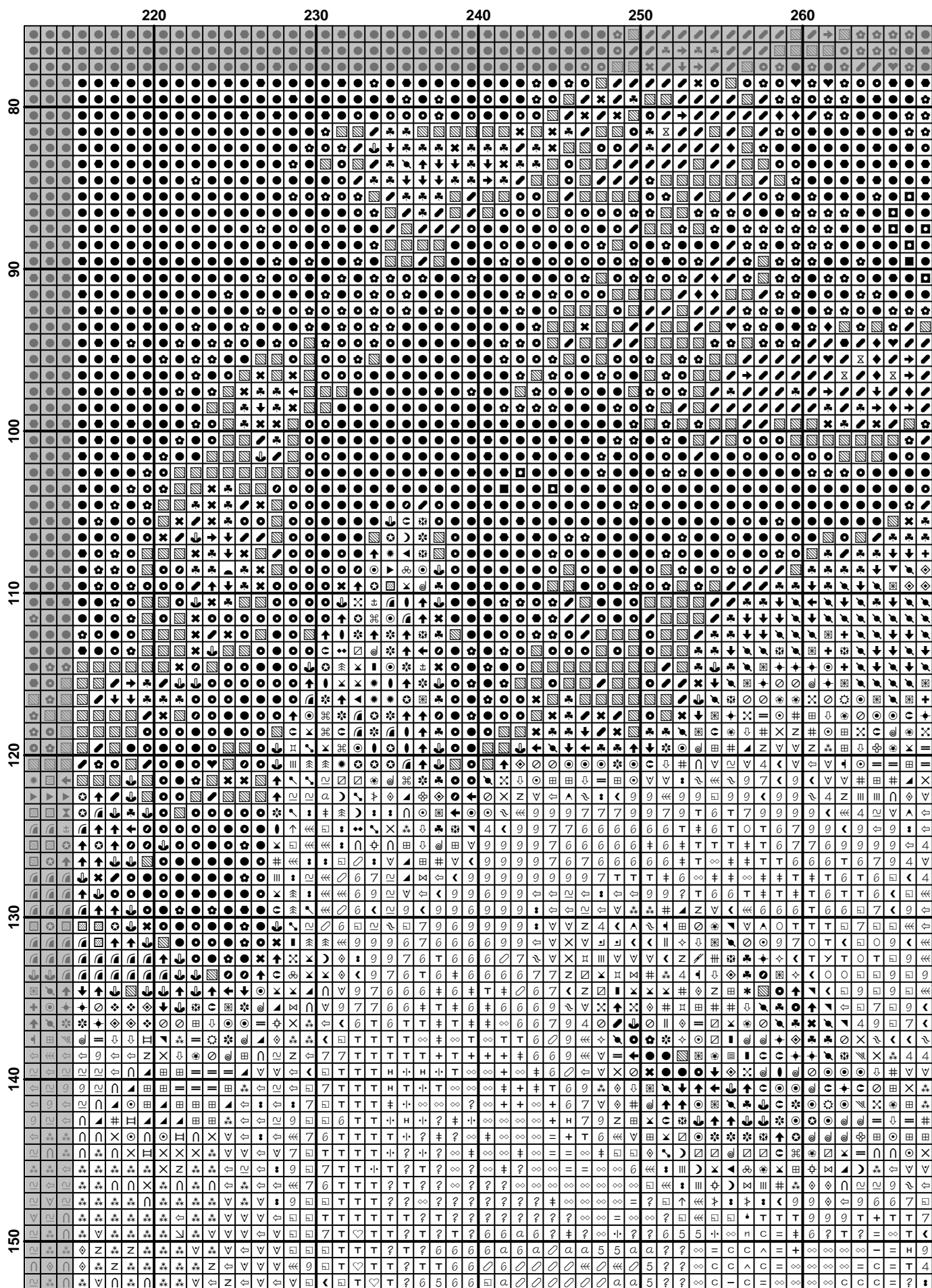




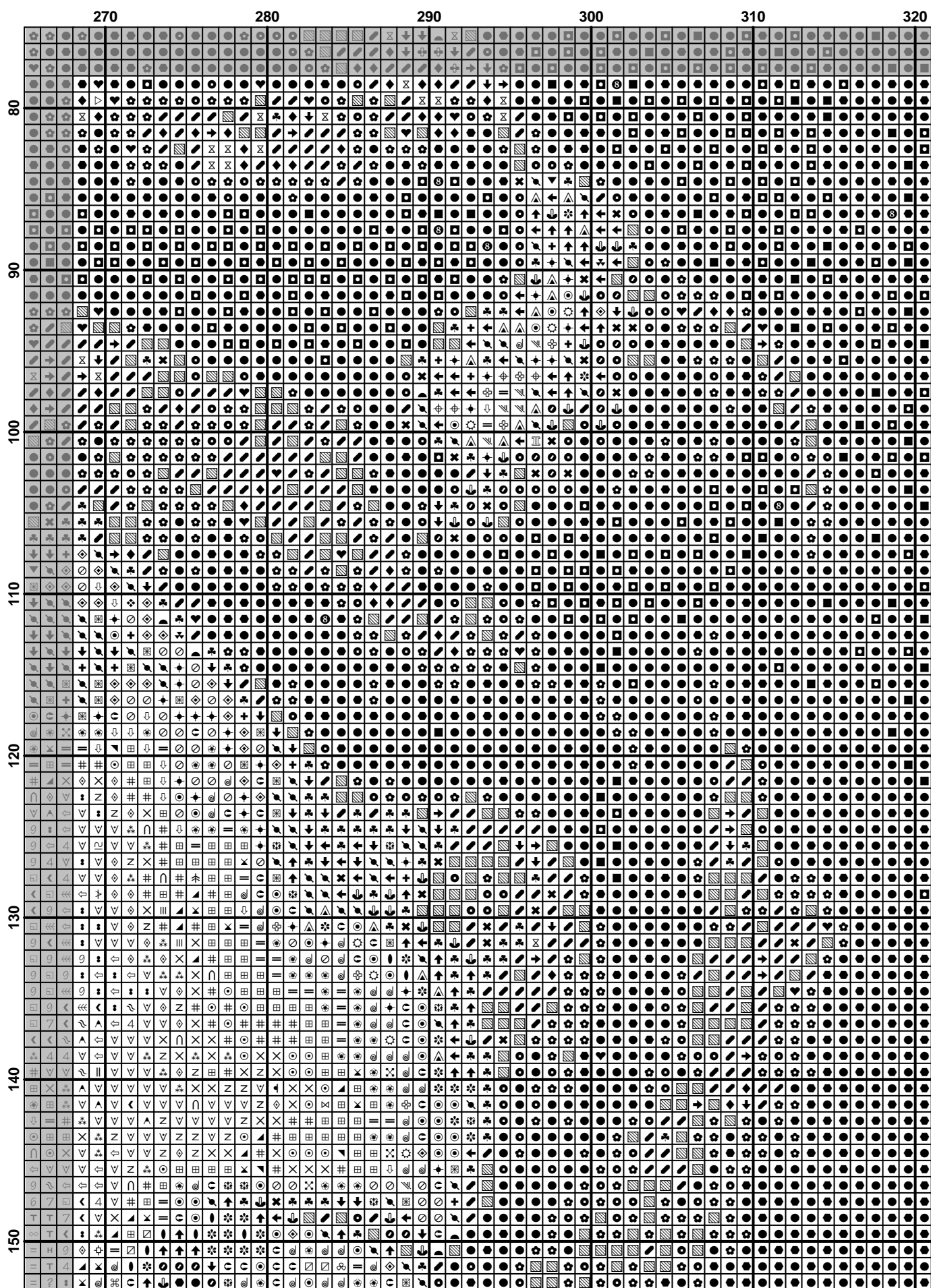


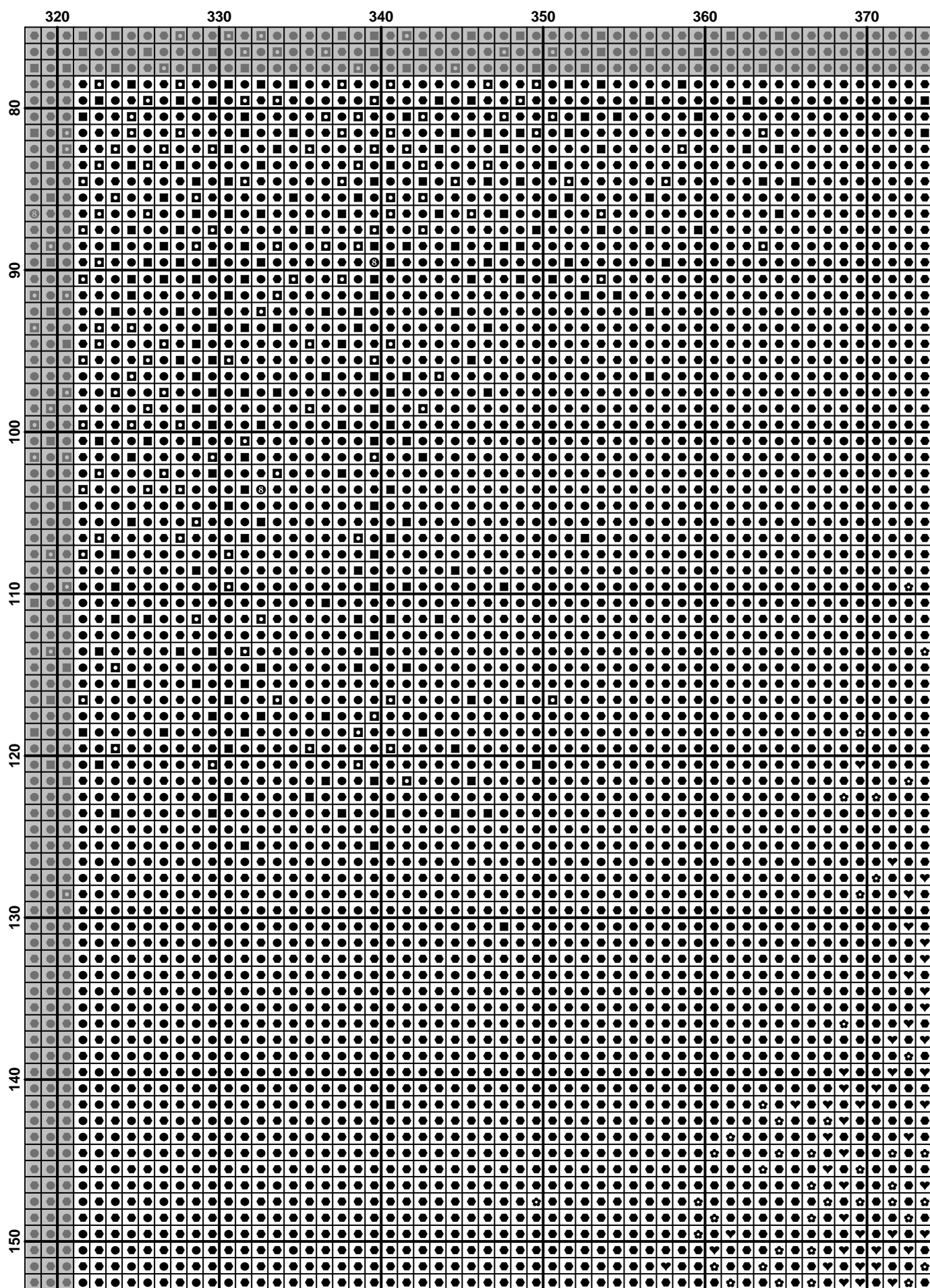


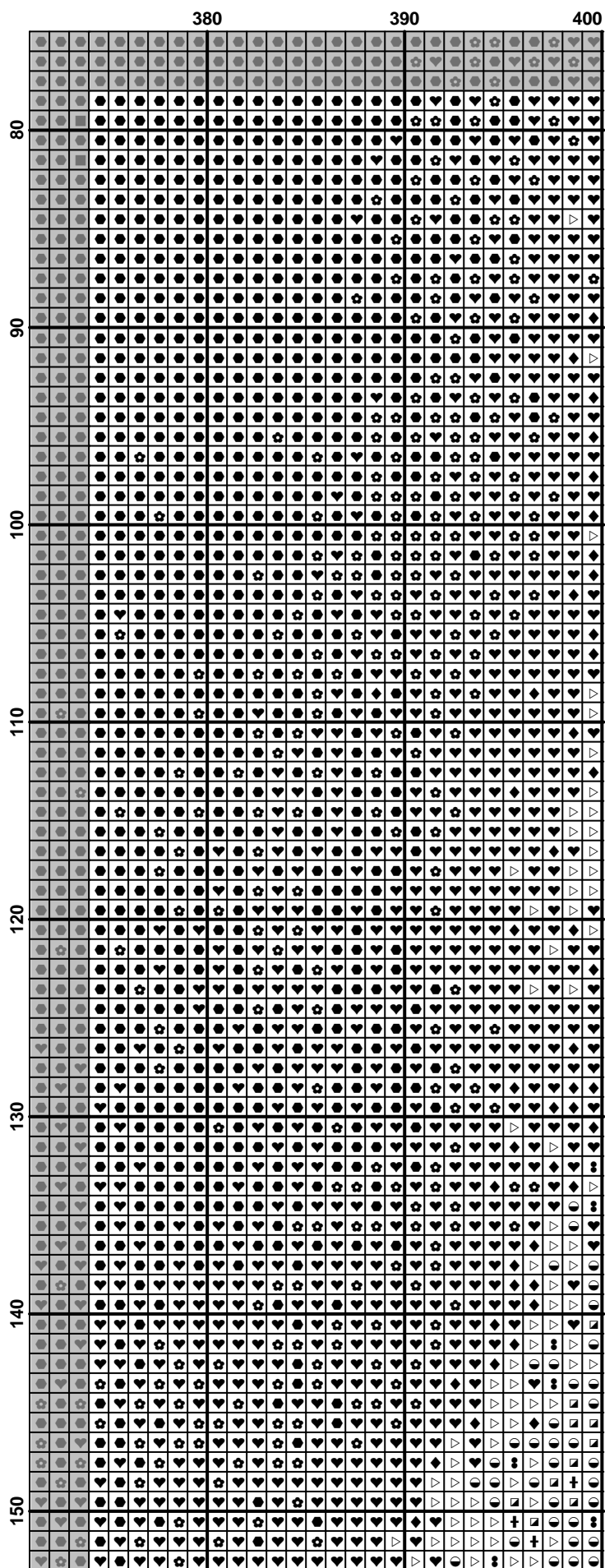








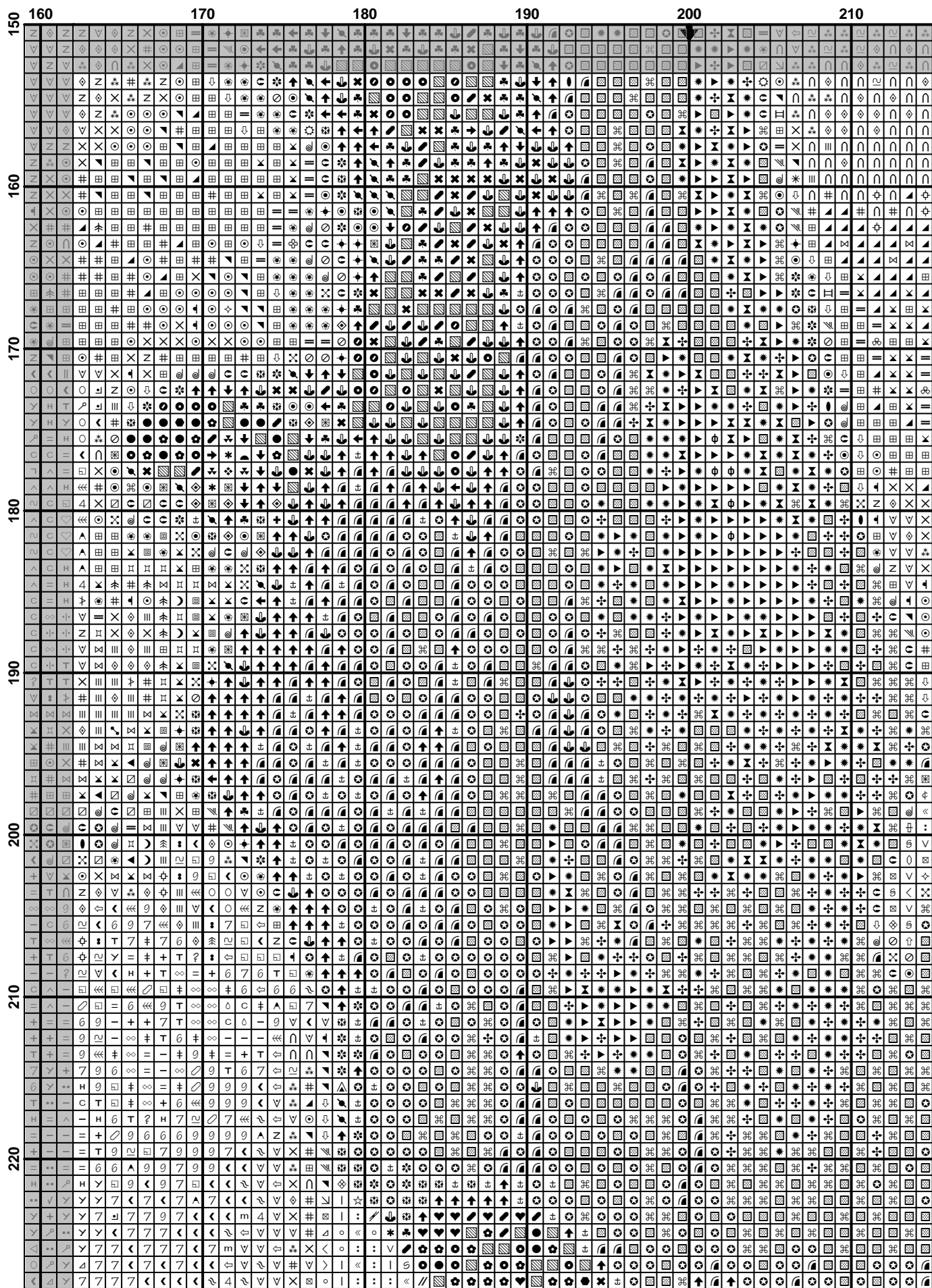




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170	L	L	L	L	L
180	L	L	L	L	L
190	L	L	L	L	L
200	L	L	L	L	L
210	L	L	L	L	L
220	L	L	L	L	L
230	L	L	L	L	L
240	L	L	L	L	L
250	L	L	L	L	L
260	L	L	L	L	L
270	L	L	L	L	L
280	L	L	L	L	L
290	L	L	L	L	L
300	L	L	L	L	L
310	L	L	L	L	L
320	L	L	L	L	L
330	L	L	L	L	L
340	L	L	L	L	L
350	L	L	L	L	L
360	L	L	L	L	L
370	L	L	L	L	L
380	L	L	L	L	L
390	L	L	L	L	L
400	L	L	L	L	L
410	L	L	L	L	L
420	L	L	L	L	L
430	L	L	L	L	L
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480	L	L	L	L	L
490	L	L	L	L	L
500	L	L	L	L	L
510	L	L	L	L	L
520	L	L	L	L	L
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660	L	L	L	L	L
670	L	L	L	L	L
680	L	L	L	L	L
690	L	L	L	L	L
700	L	L	L	L	L
710	L	L	L	L	L
720	L	L	L	L	L
730	L	L	L	L	L
740	L	L	L	L	L
750	L	L	L	L	L
760	L	L	L	L	L
770	L	L	L	L	L
780	L	L	L	L	L
790	L	L	L	L	L
800	L	L	L	L	L
810	L	L	L	L	L
820	L	L	L	L	L
830	L	L	L	L	L
840	L	L	L	L	L
850	L	L	L	L	L
860	L	L	L	L	L
870	L	L	L	L	L
880	L	L	L	L	L
890	L	L	L	L	L
900	L	L	L	L	L
910	L	L	L	L	L
920	L	L	L	L	L
930	L	L	L	L	L
940	L	L	L	L	L
950	L	L	L	L	L
960	L	L	L	L	L
970	L	L	L	L	L
980	L	L	L	L	L
990	L	L	L	L	L
1000	L	L	L	L	L

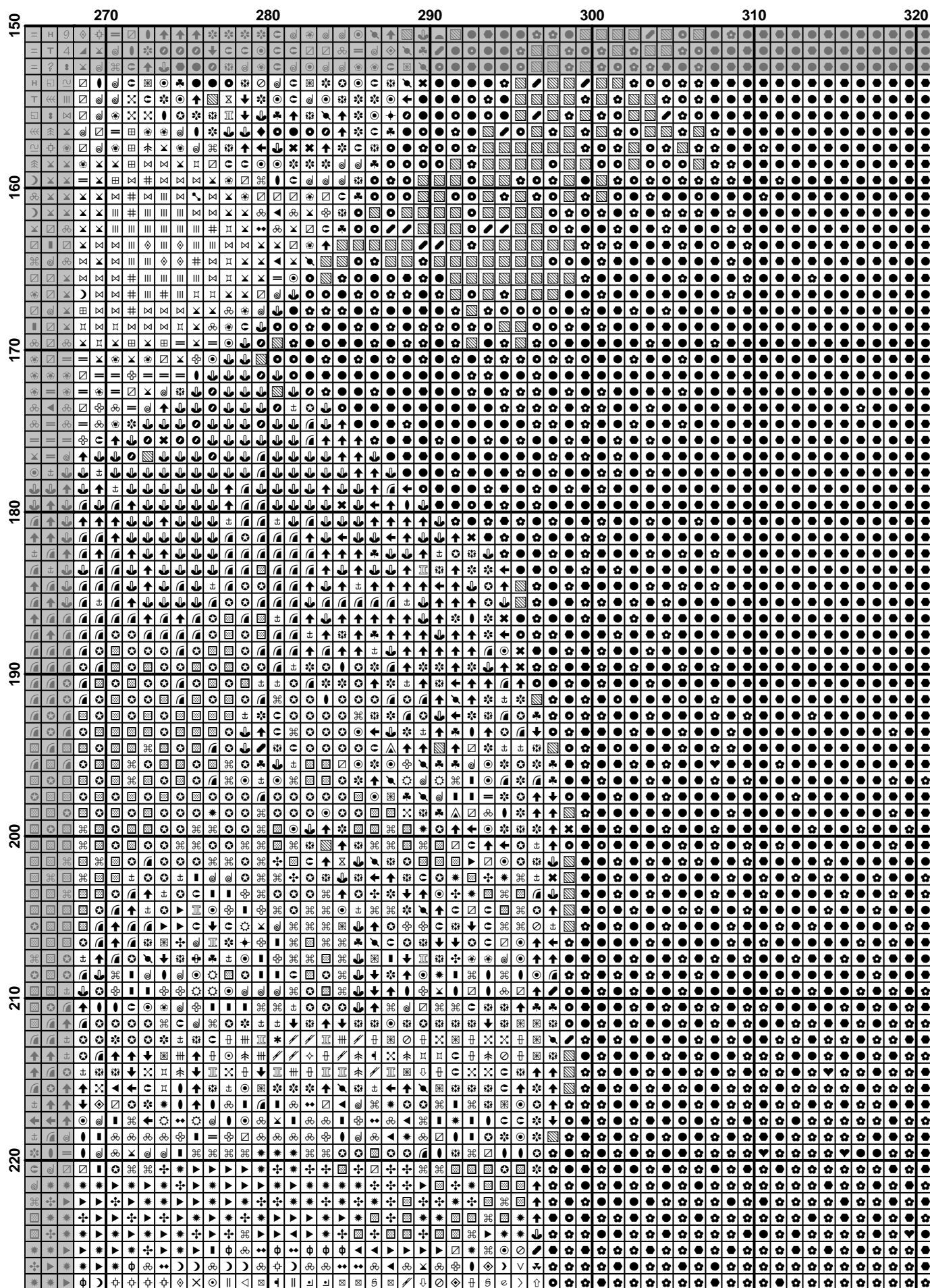
	60	70	80	90	100
150					
160					
170					
180					
190					
200					
210					
220					

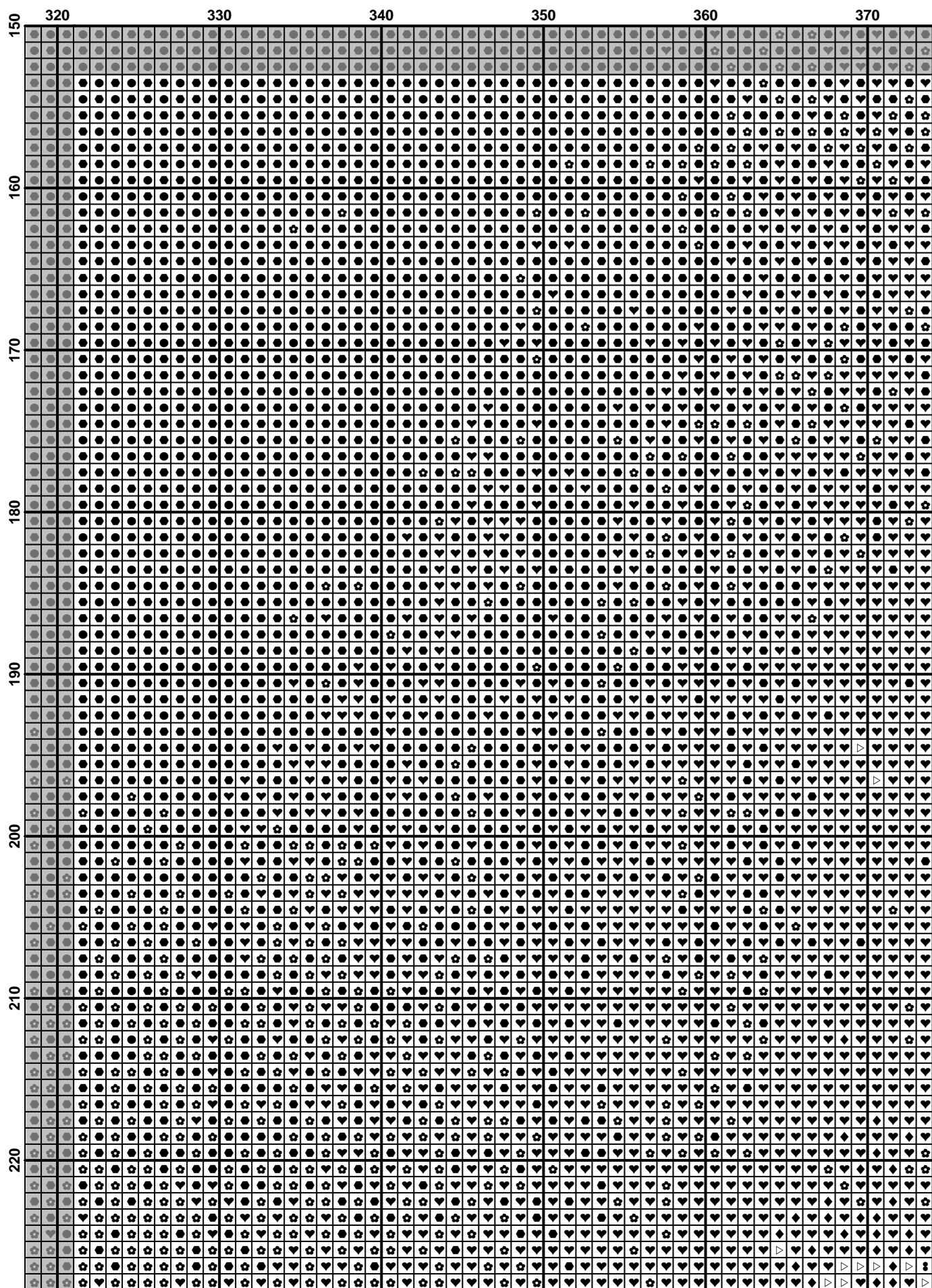
150	110	120	130	140	150	160
150	...	...	...	...	...	...
160	...	...	...	...	...	...
170	...	...	...	...	...	...
180	...	...	...	...	...	...
190	...	...	...	...	...	...
200	...	...	...	...	...	...
210	...	...	...	...	...	...
220	...	...	...	...	...	...

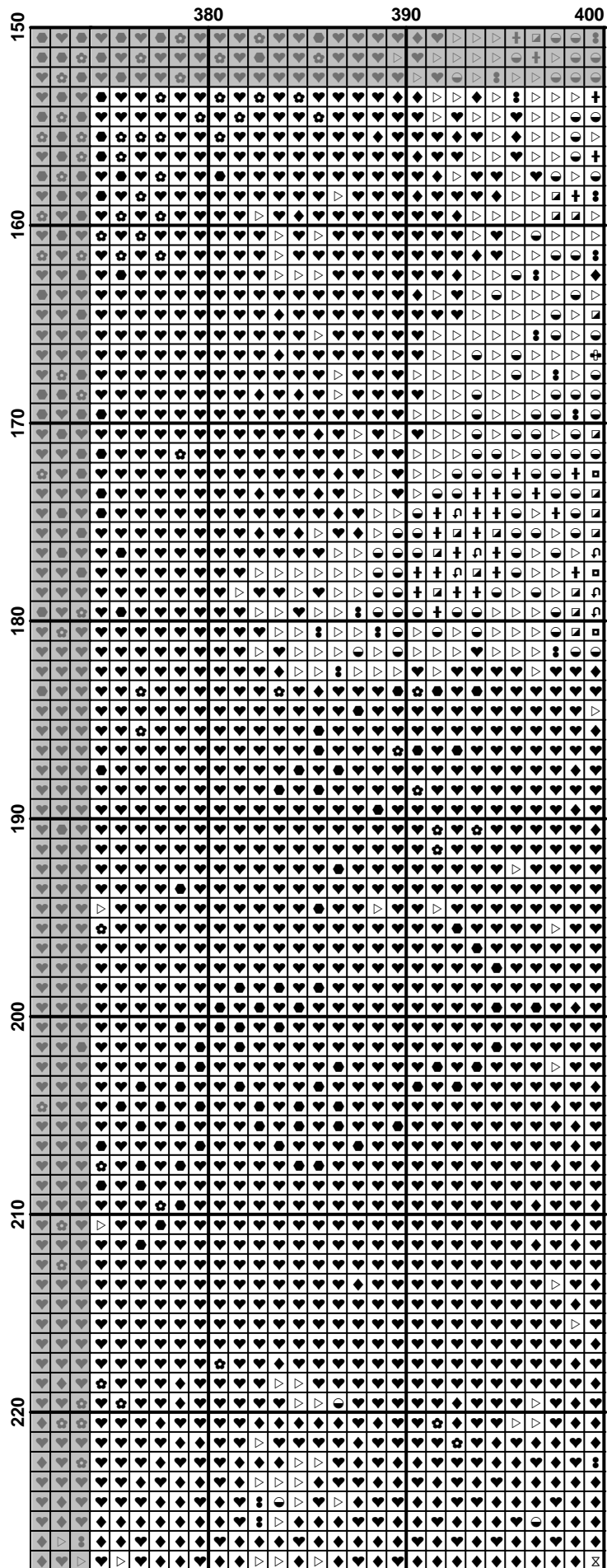


	220	230	240	250	260
150					
160					
170					
180					
190					
200					
210					
220					





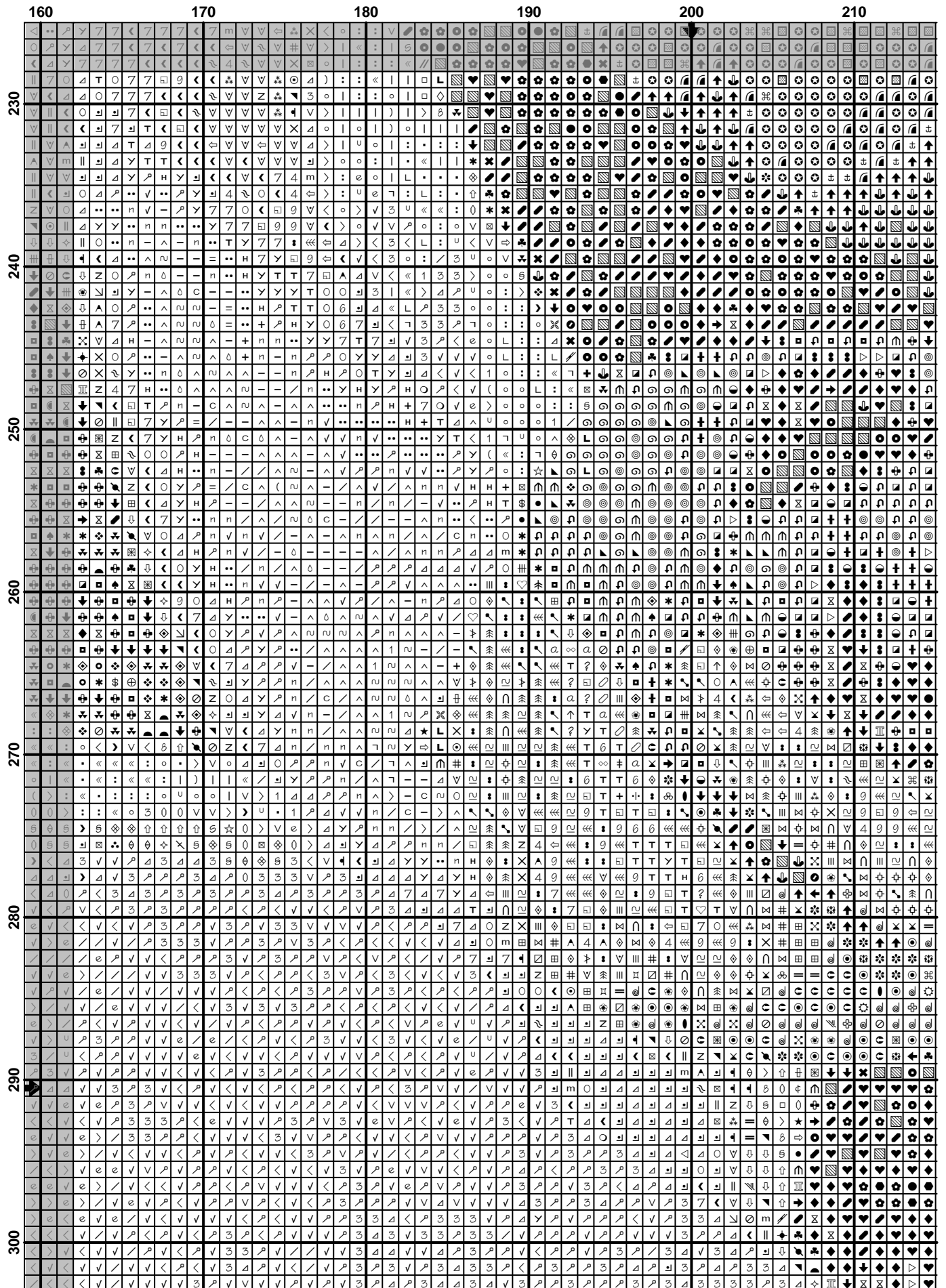


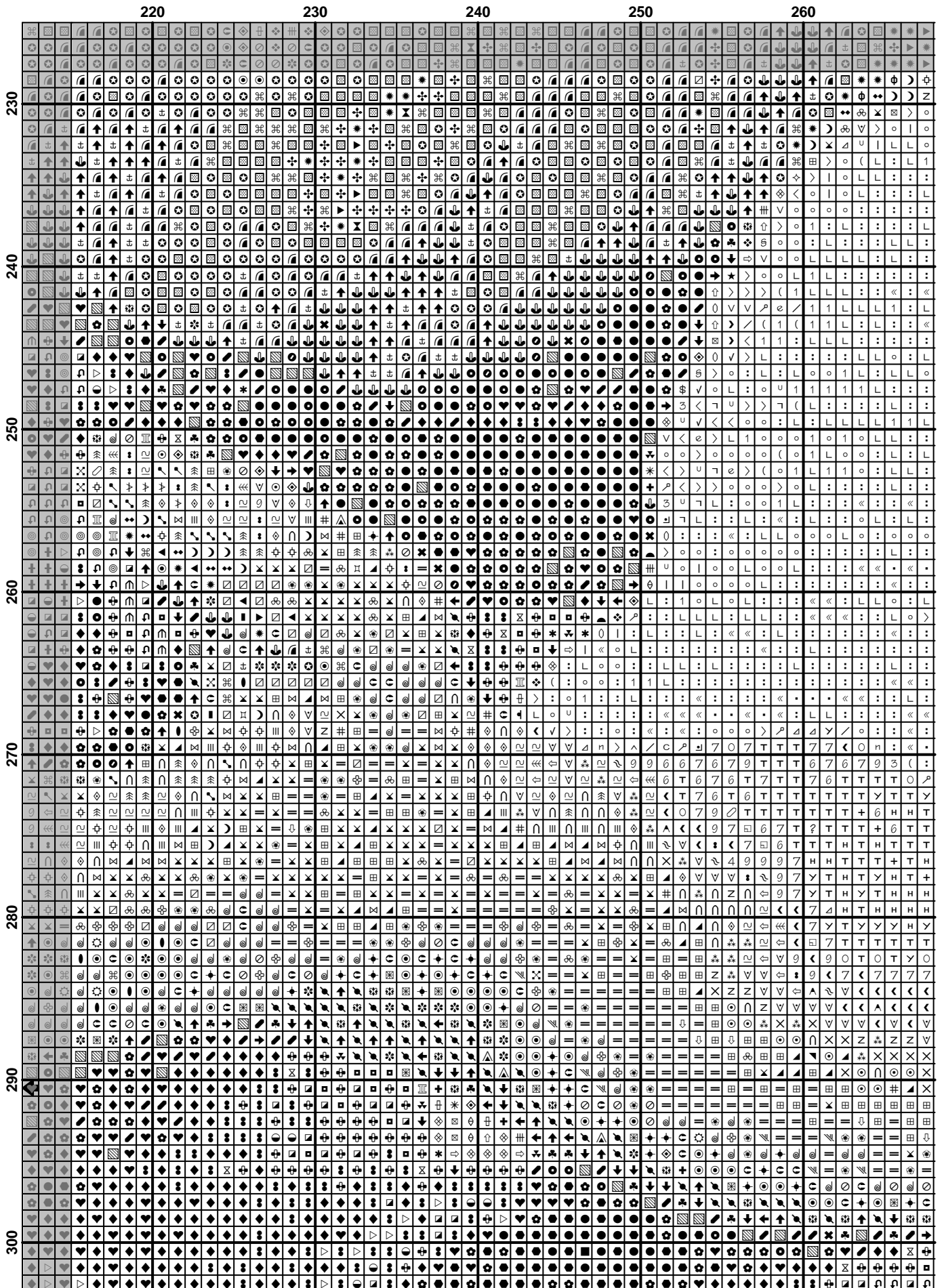


$$(33) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (34)$$

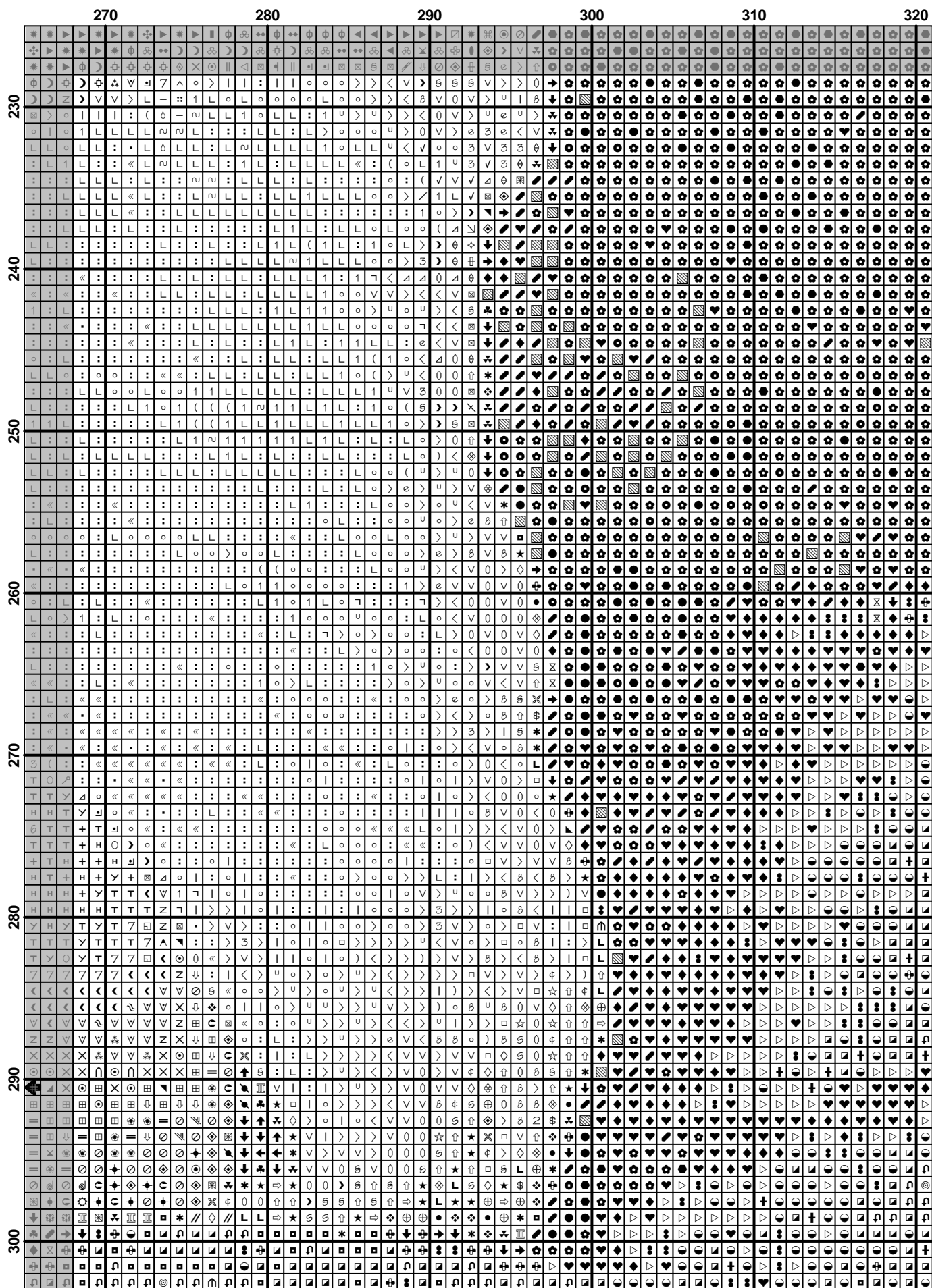
	60	70	80	90	100
230	⬆	⬆	⬆	⬆	⬆
240	⬆	⬆	⬆	⬆	⬆
250	⬆	⬆	⬆	⬆	⬆
260	⬆	⬆	⬆	⬆	⬆
270	⬆	⬆	⬆	⬆	⬆
280	⬆	⬆	⬆	⬆	⬆
290	⬆	⬆	⬆	⬆	⬆
300	⬆	⬆	⬆	⬆	⬆

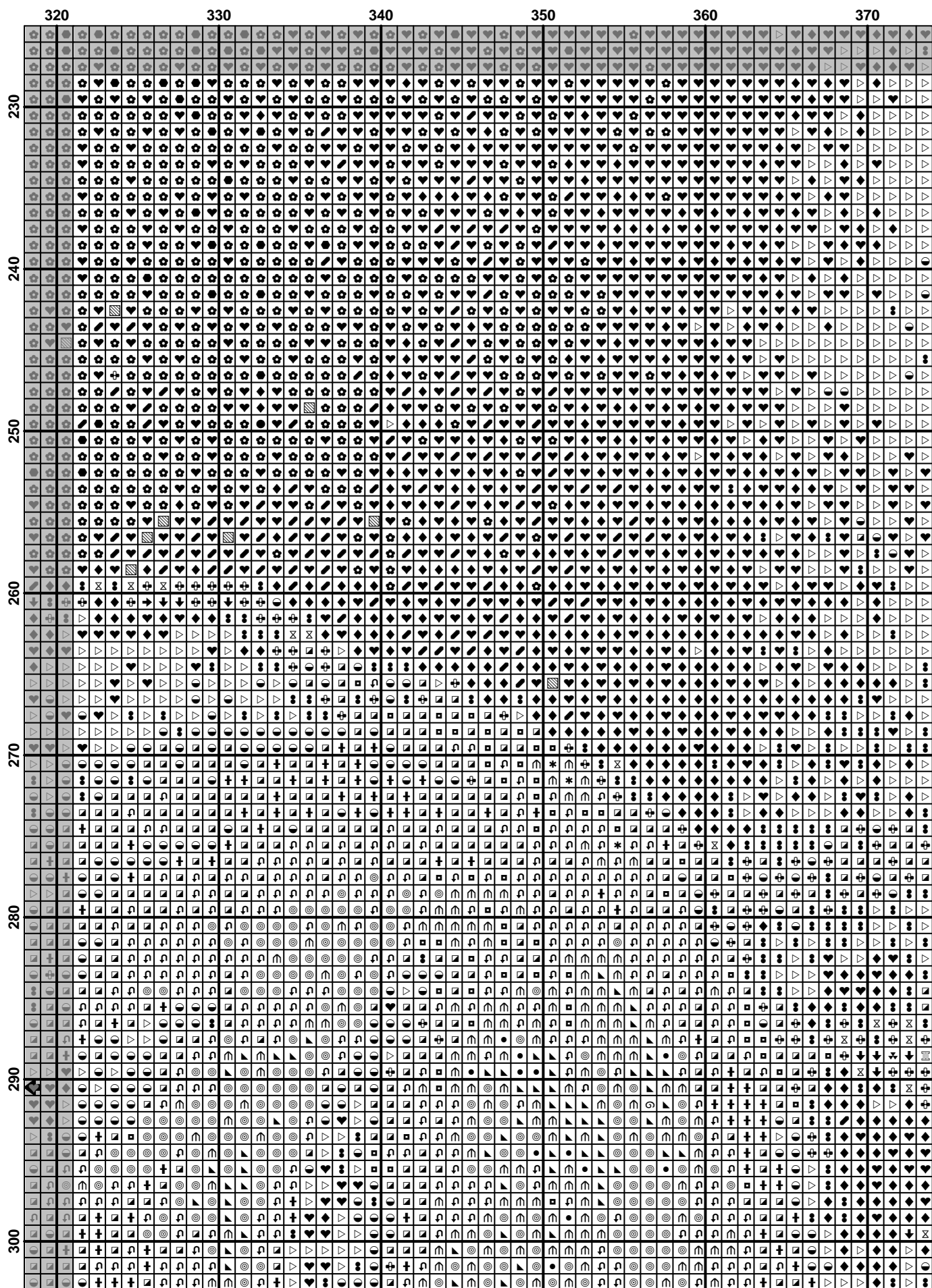
	110	120	130	140	150	160
230						
240						
250						
260						
270						
280						
290						
300						

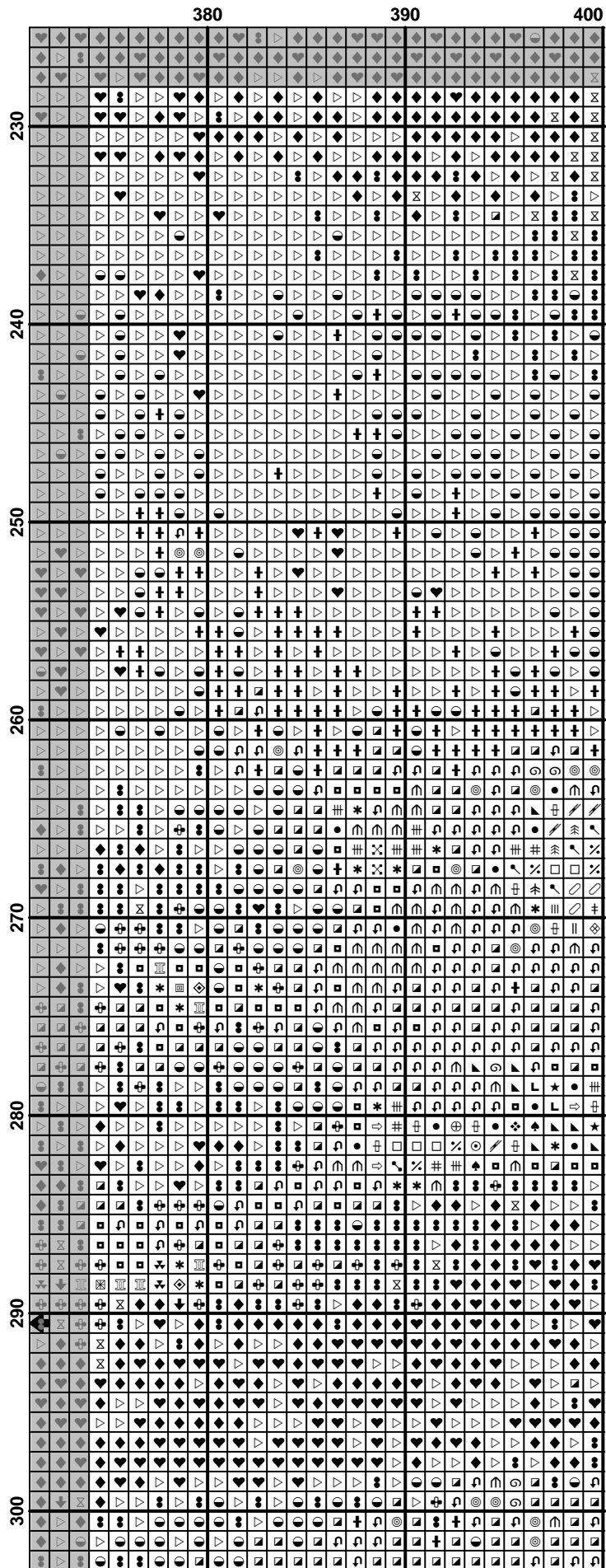


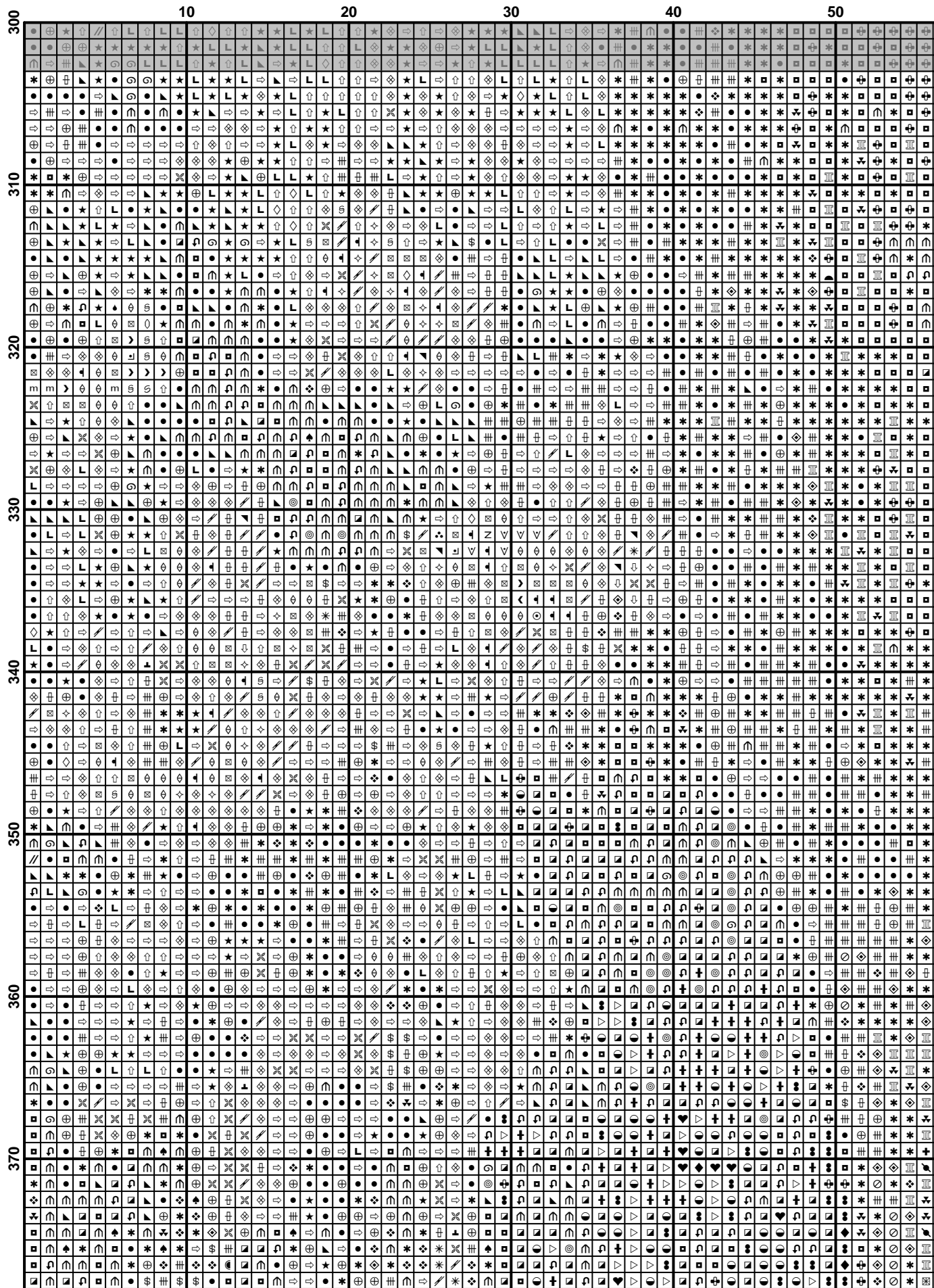








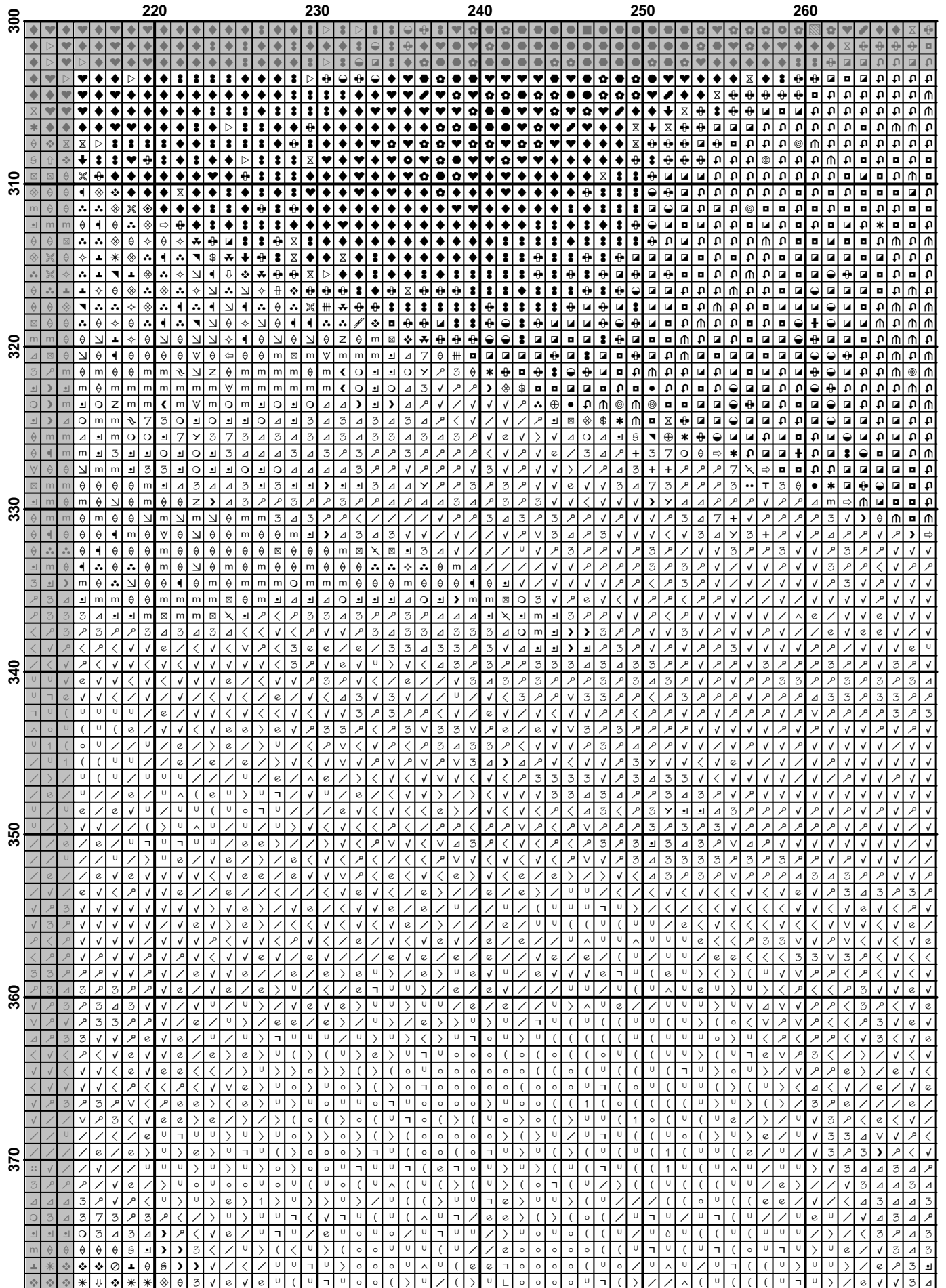




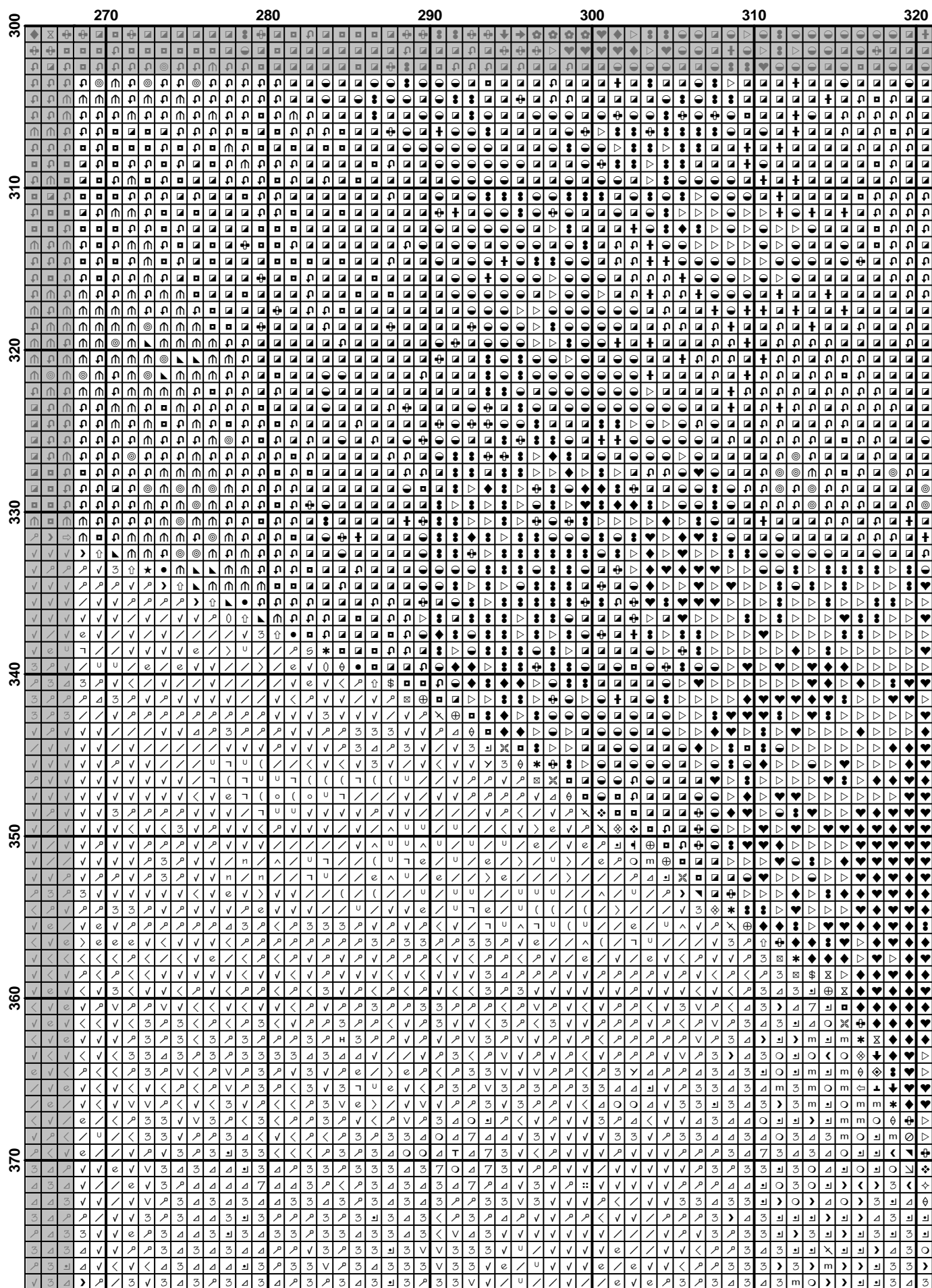
	60	70	80	90	100
300	+	+	+	+	+
301	+	+	+	+	+
302	+	+	+	+	+
303	+	+	+	+	+
304	+	+	+	+	+
305	+	+	+	+	+
306	+	+	+	+	+
307	+	+	+	+	+
308	+	+	+	+	+
309	+	+	+	+	+
310	+	+	+	+	+
311	+	+	+	+	+
312	+	+	+	+	+
313	+	+	+	+	+
314	+	+	+	+	+
315	+	+	+	+	+
316	+	+	+	+	+
317	+	+	+	+	+
318	+	+	+	+	+
319	+	+	+	+	+
320	+	+	+	+	+
321	+	+	+	+	+
322	+	+	+	+	+
323	+	+	+	+	+
324	+	+	+	+	+
325	+	+	+	+	+
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329	+	+	+	+	+
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395	+	+	+	+	+
396	+	+	+	+	+
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398	+	+	+	+	+
399	+	+	+	+	+
400	+	+	+	+	+

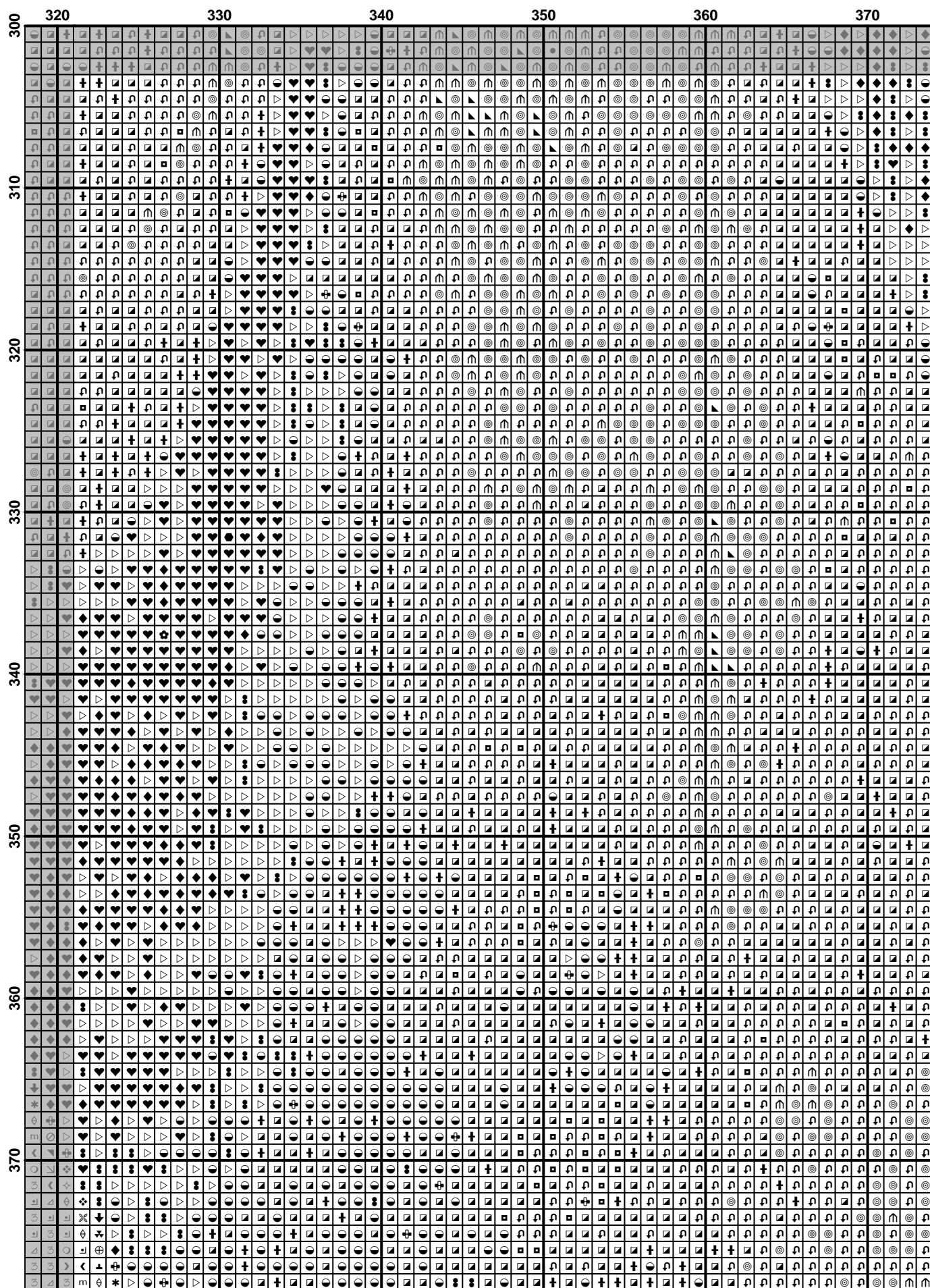
$$(43) \quad \mathcal{L}(\mathcal{A}) \subseteq \mathcal{L}(\mathcal{B}) \iff \mathcal{A} \subseteq \mathcal{B} \text{ and } \mathcal{A} \subseteq \mathcal{B}^{\perp} \quad (44)$$

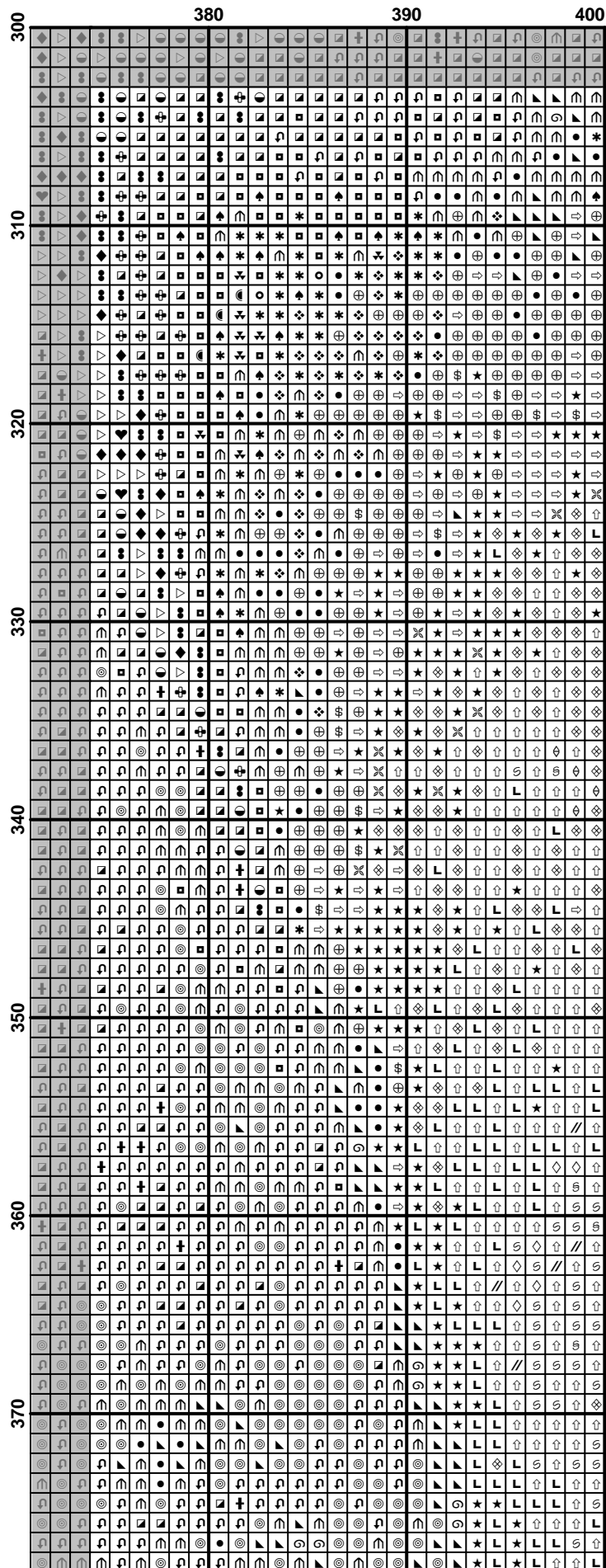
[illegible]

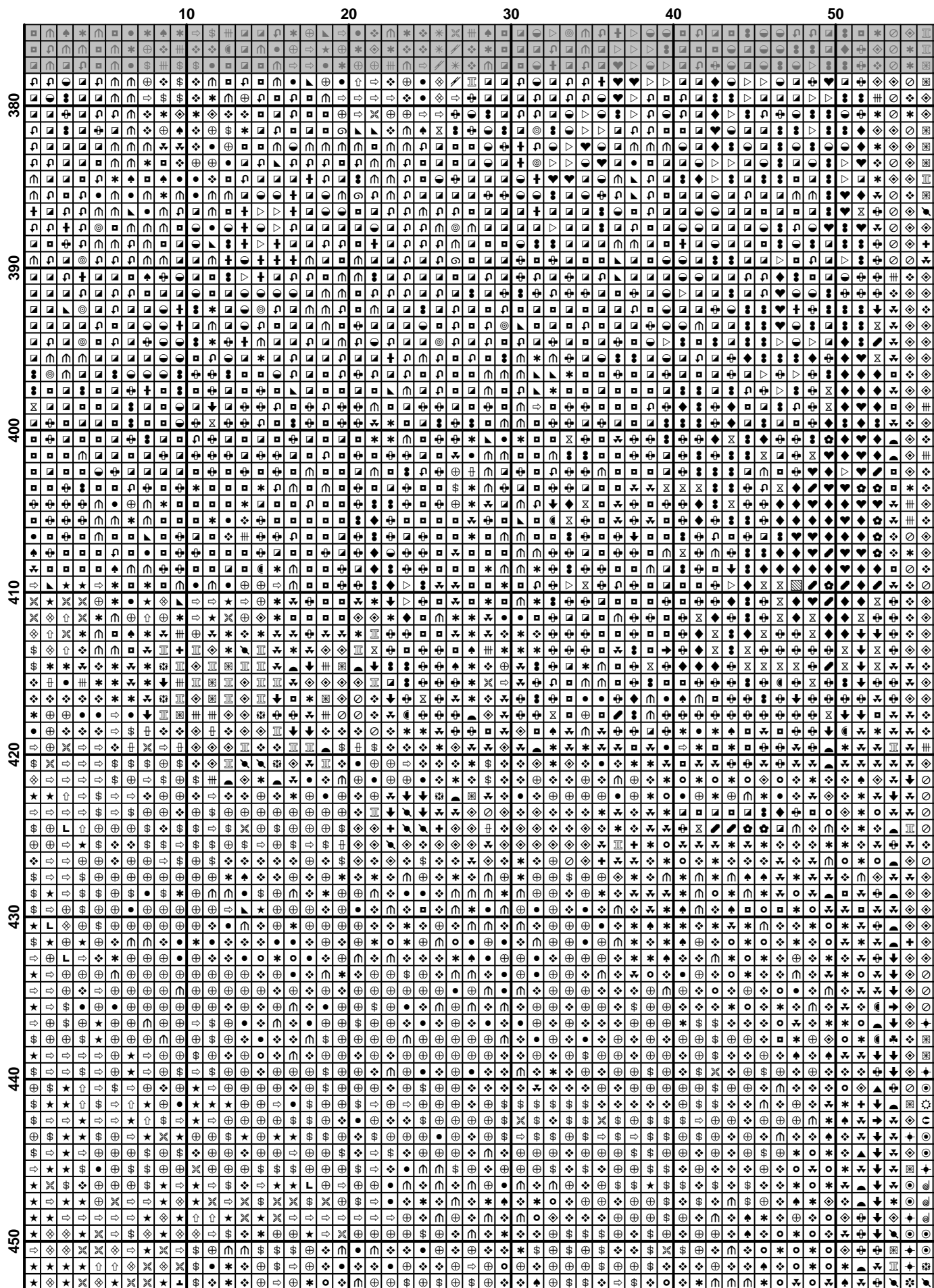


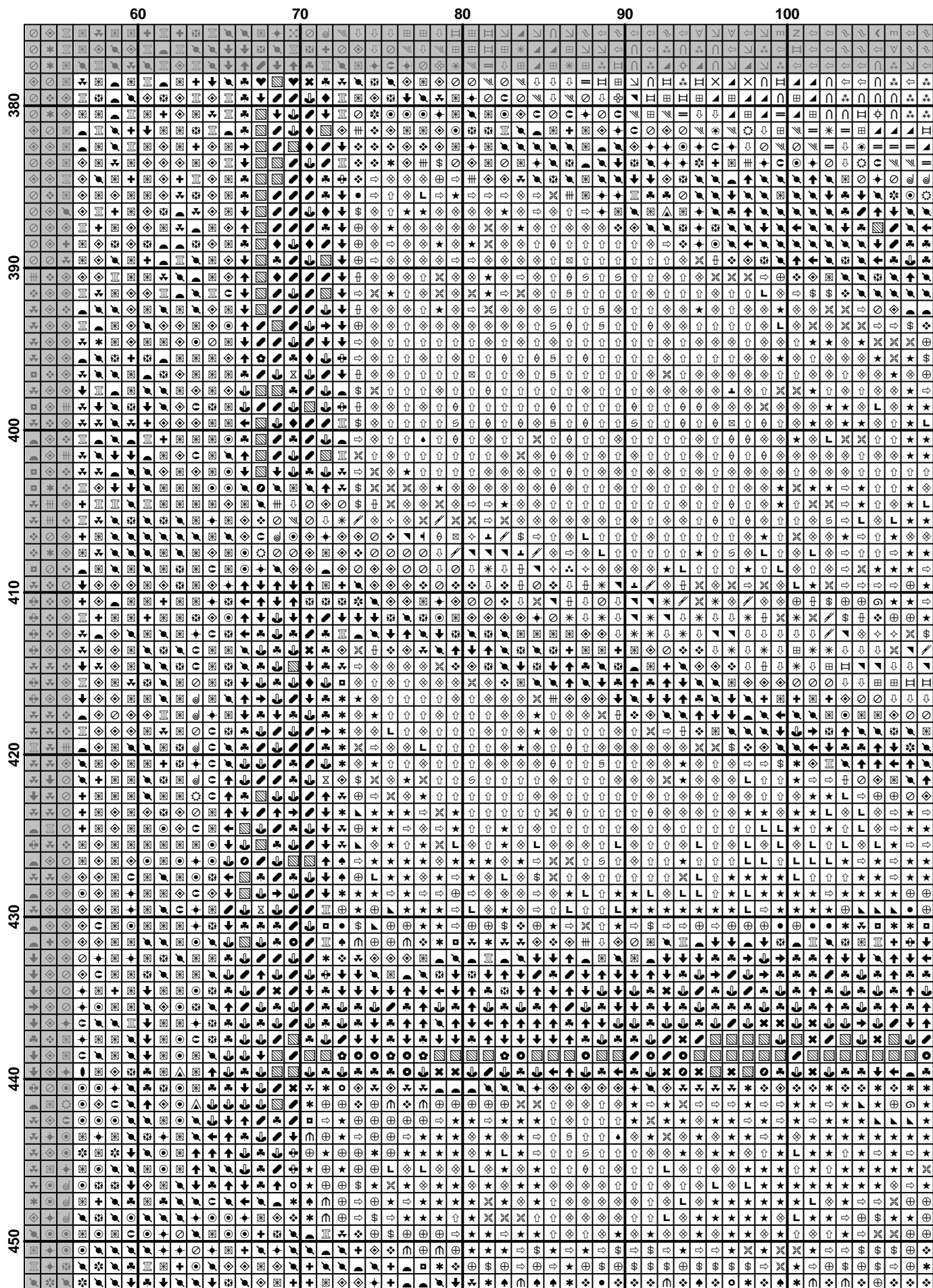


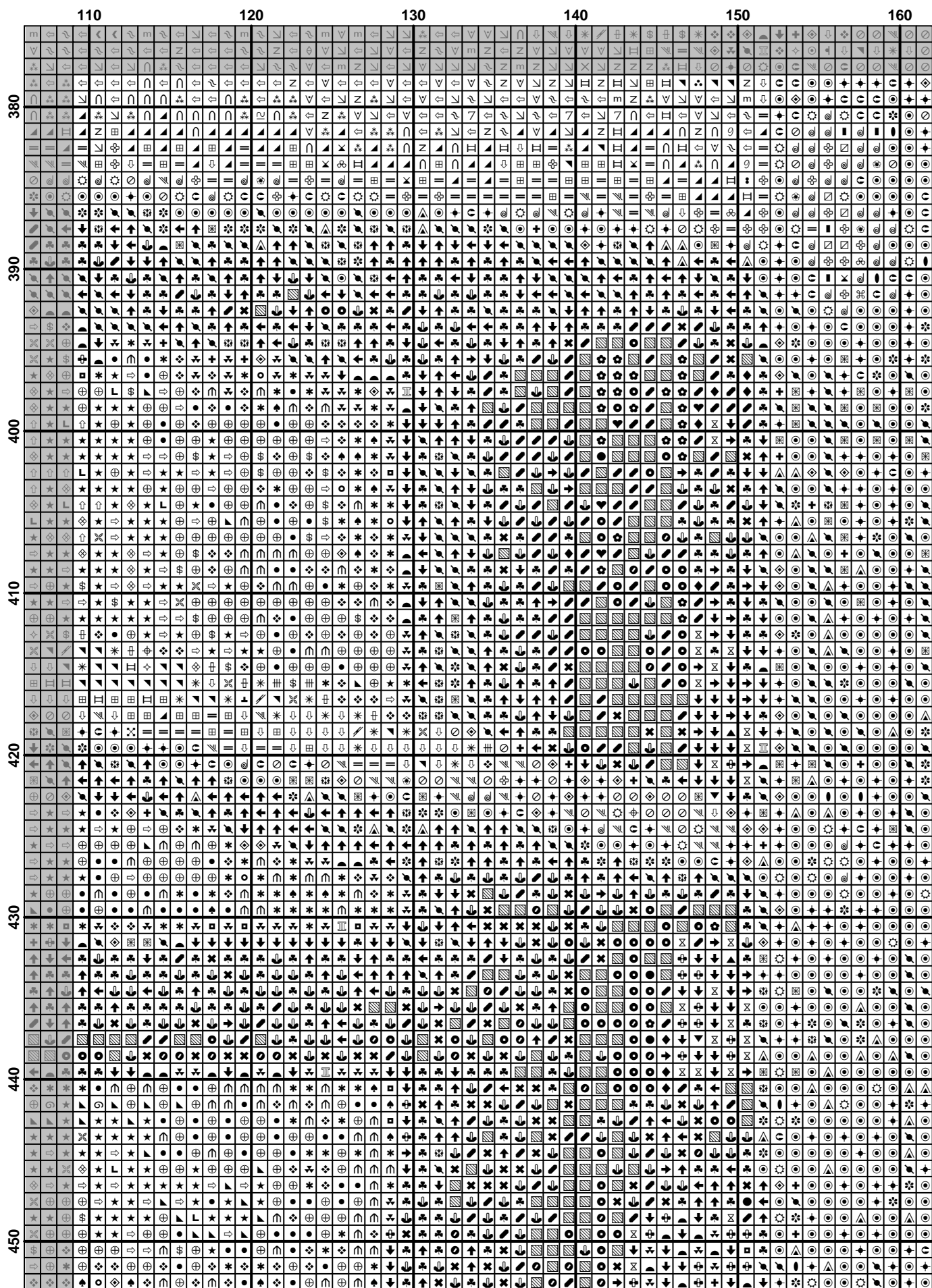








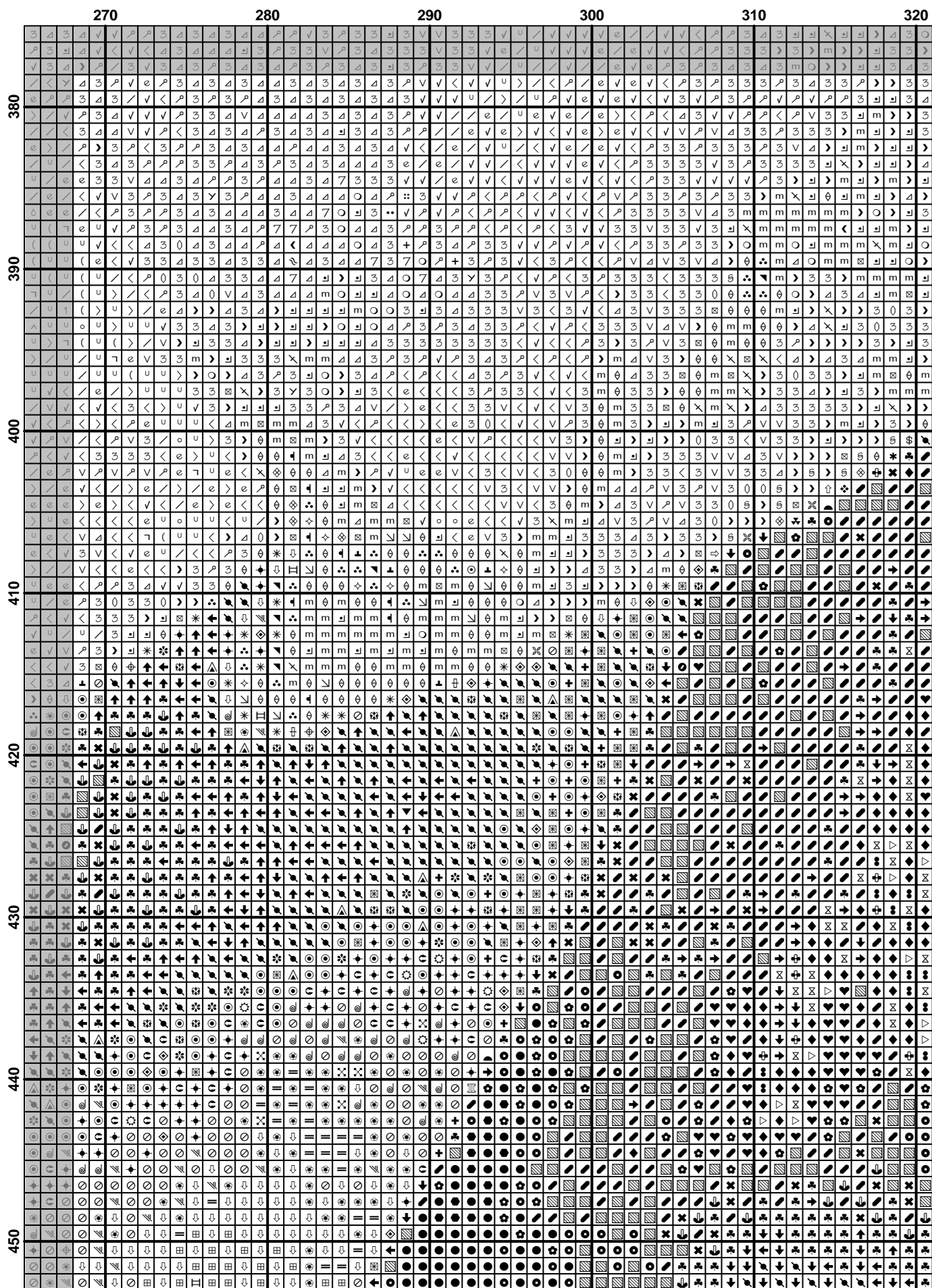


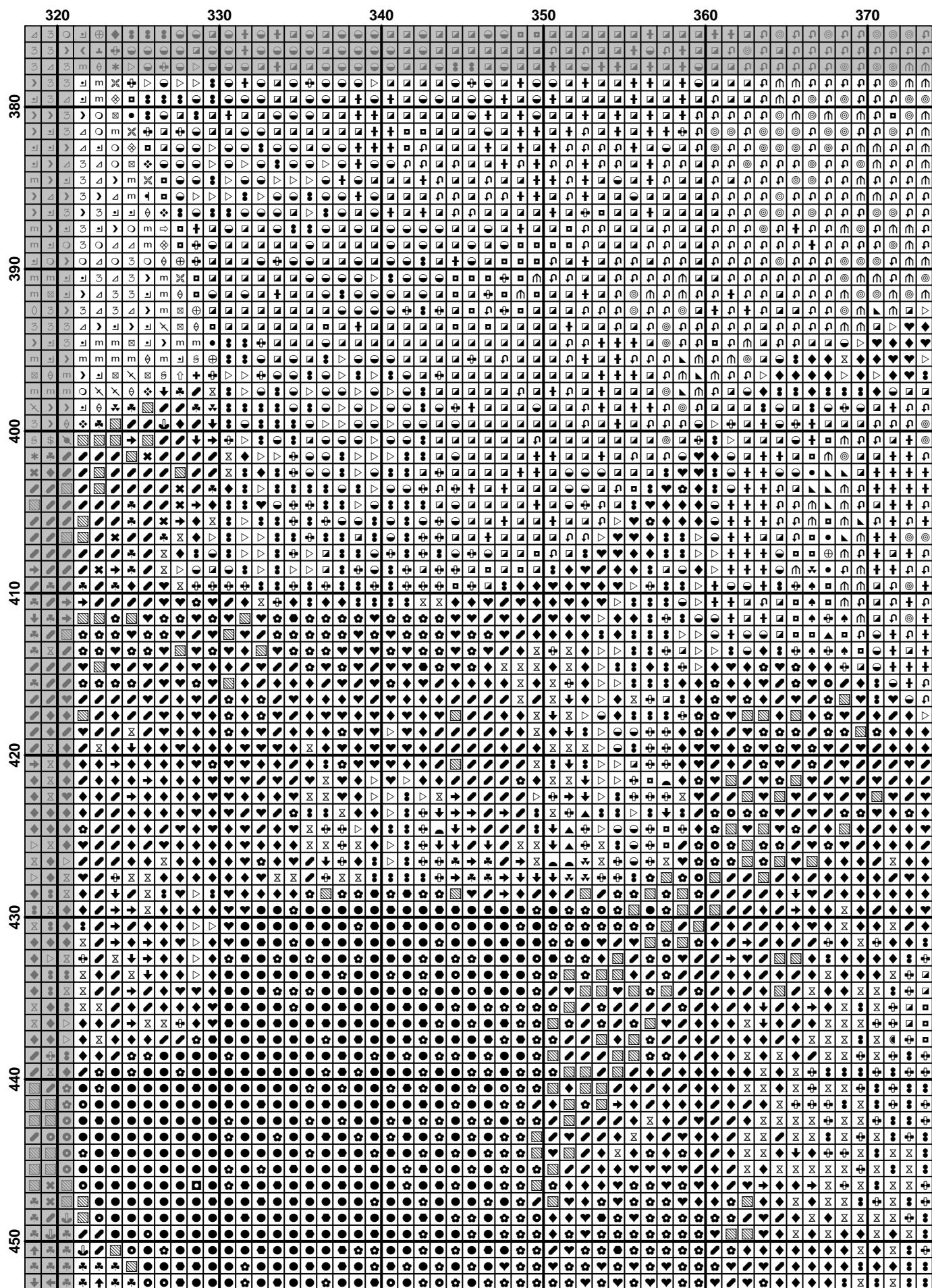


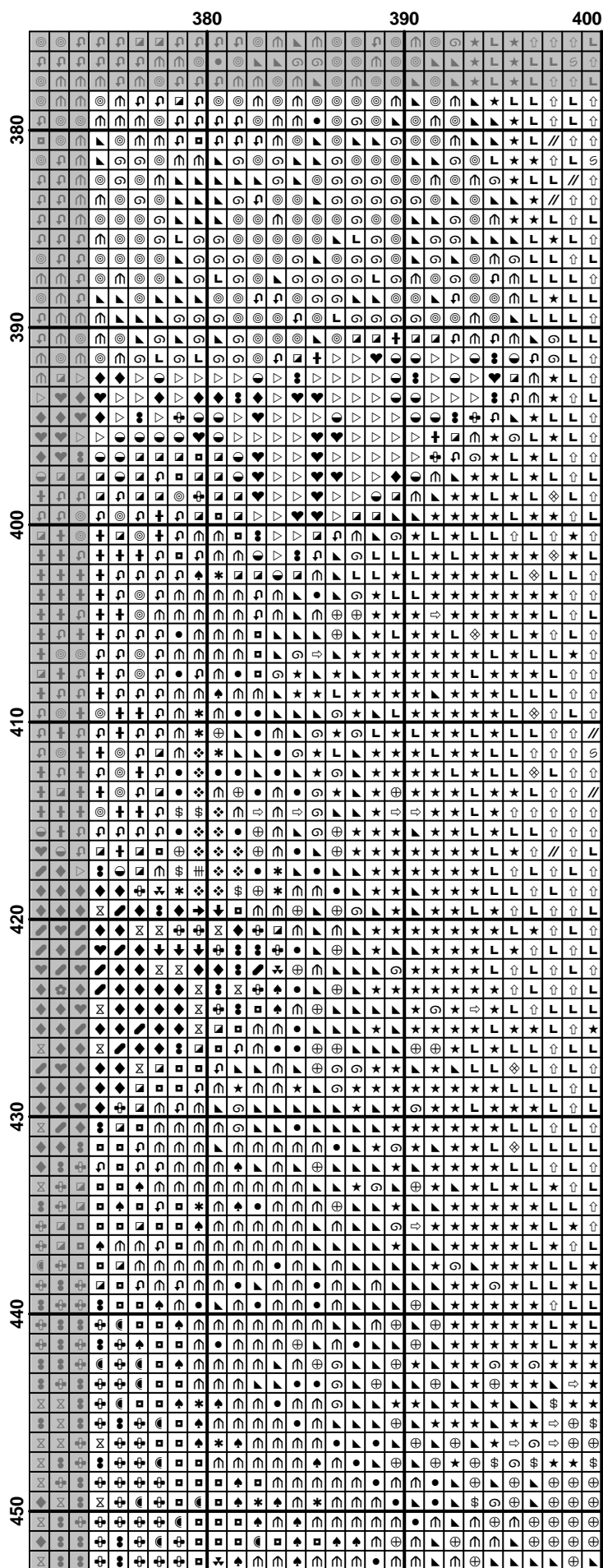
$$(52) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

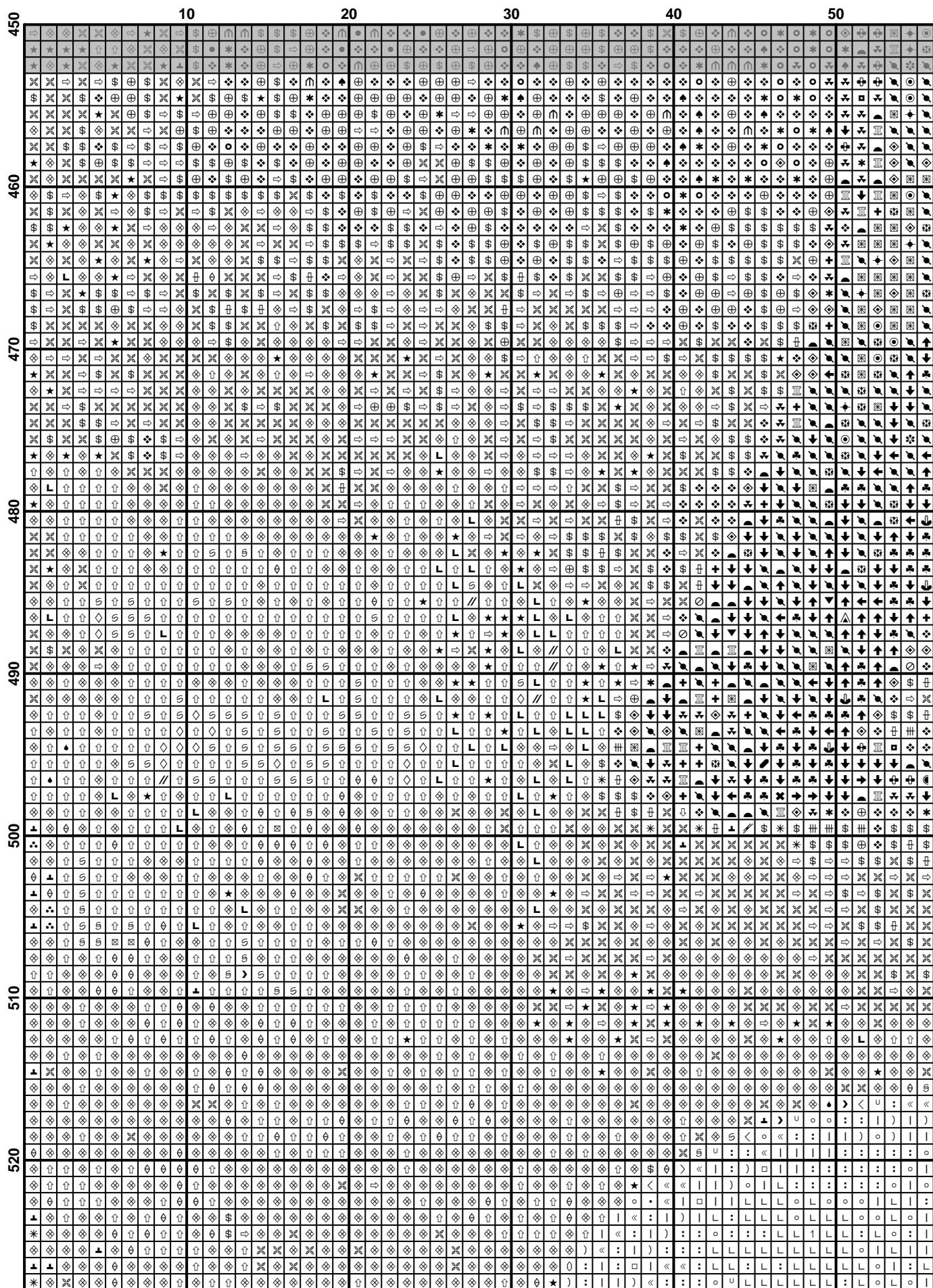
[illegible]

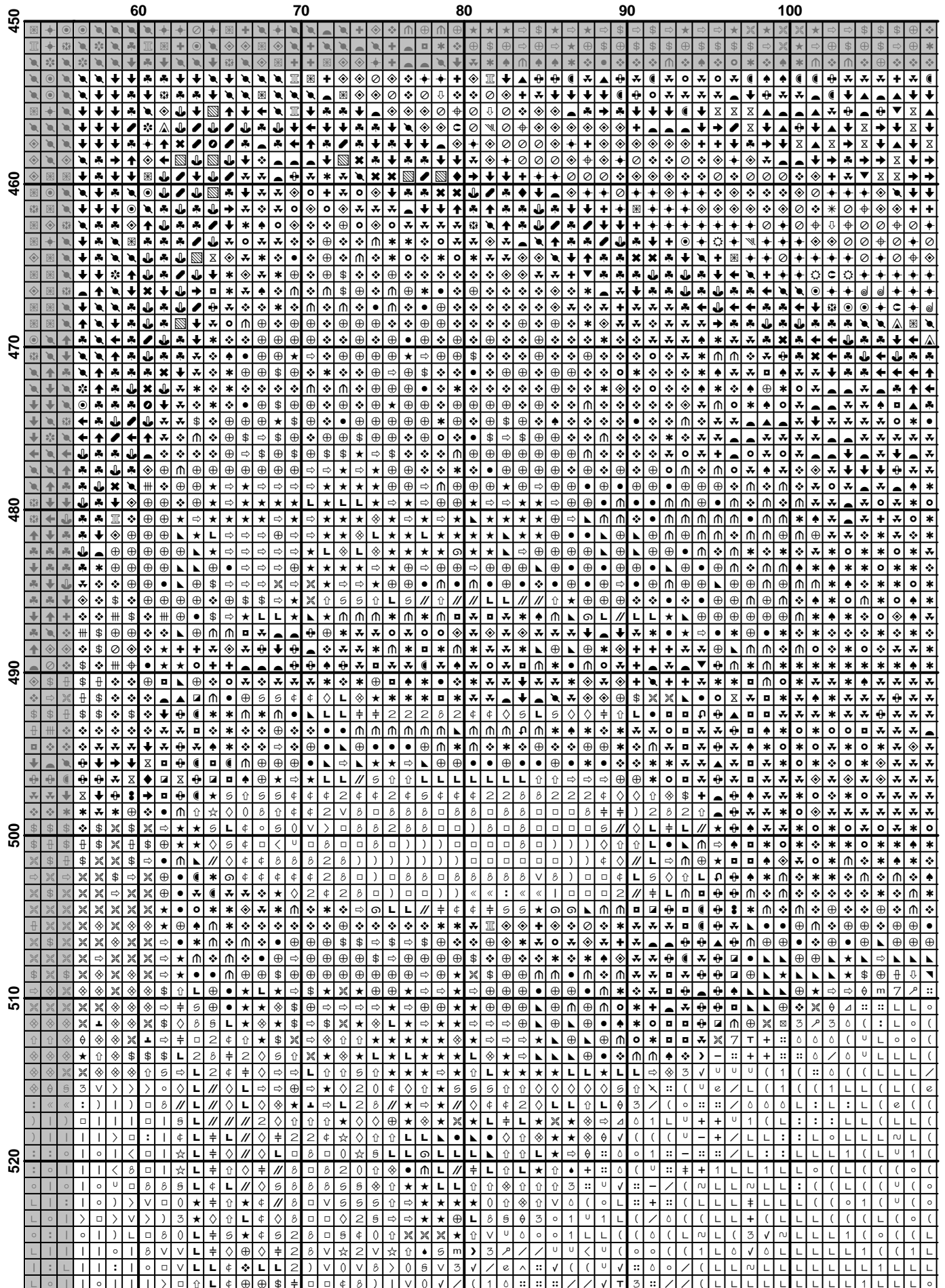


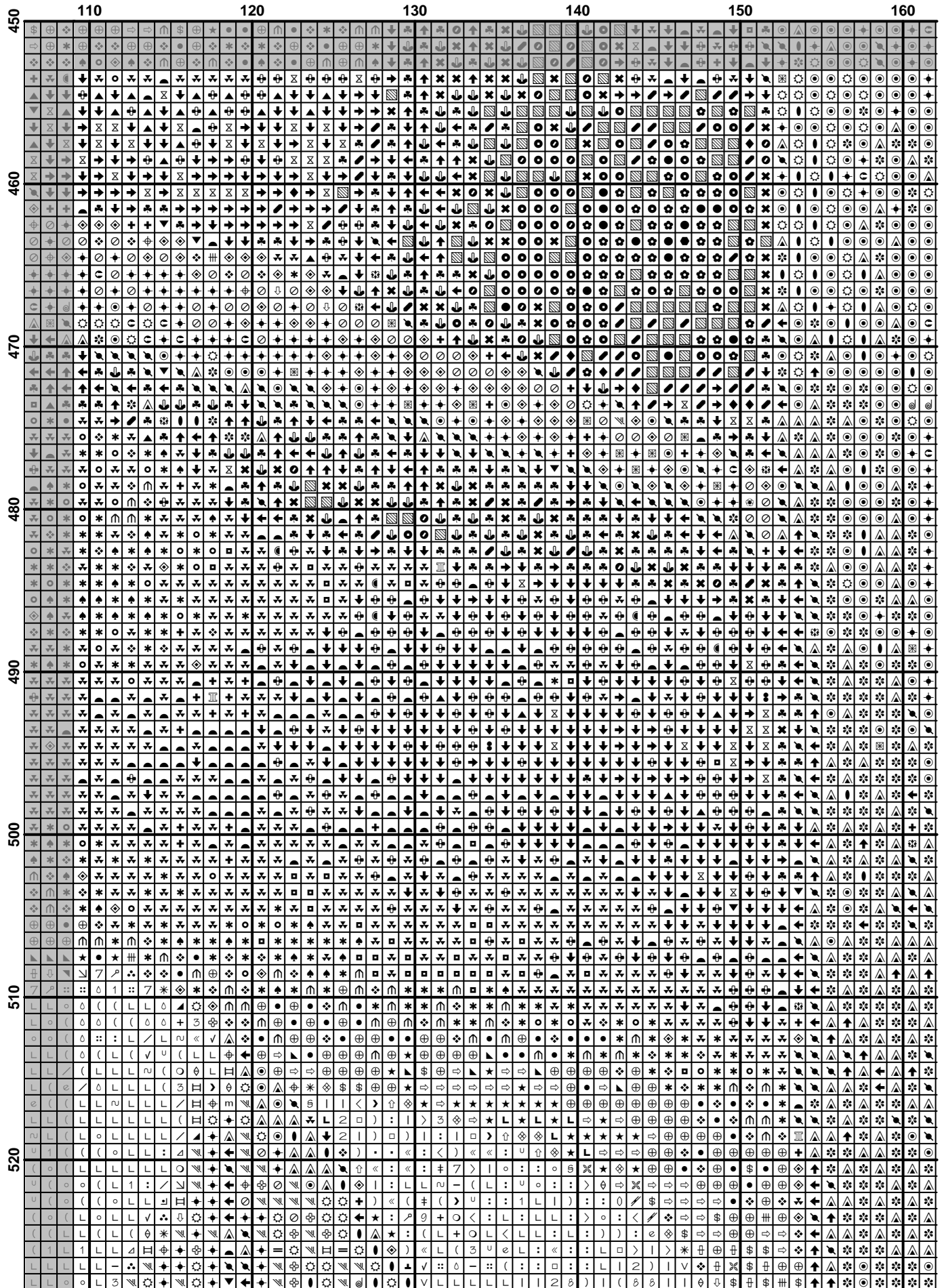


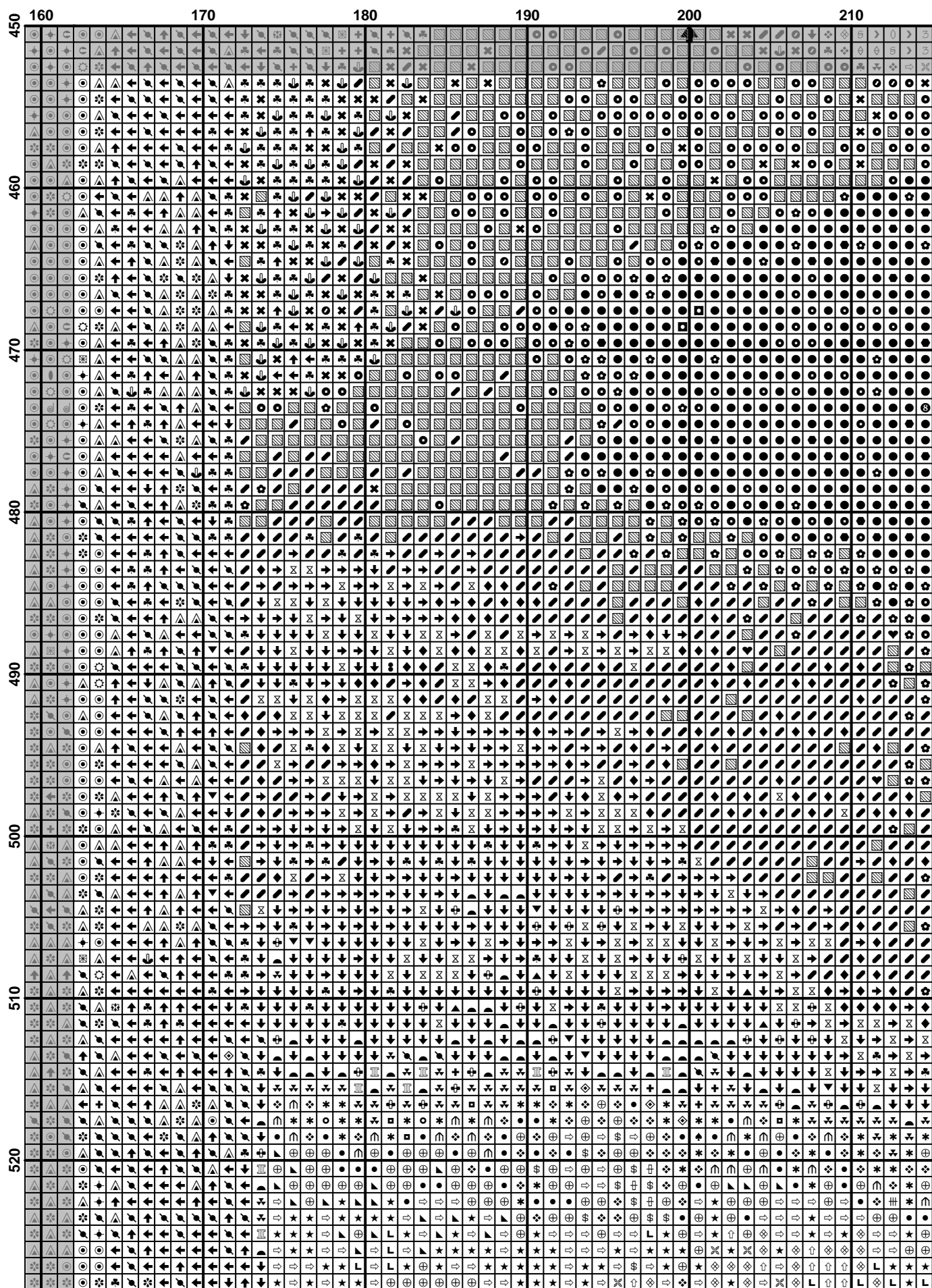


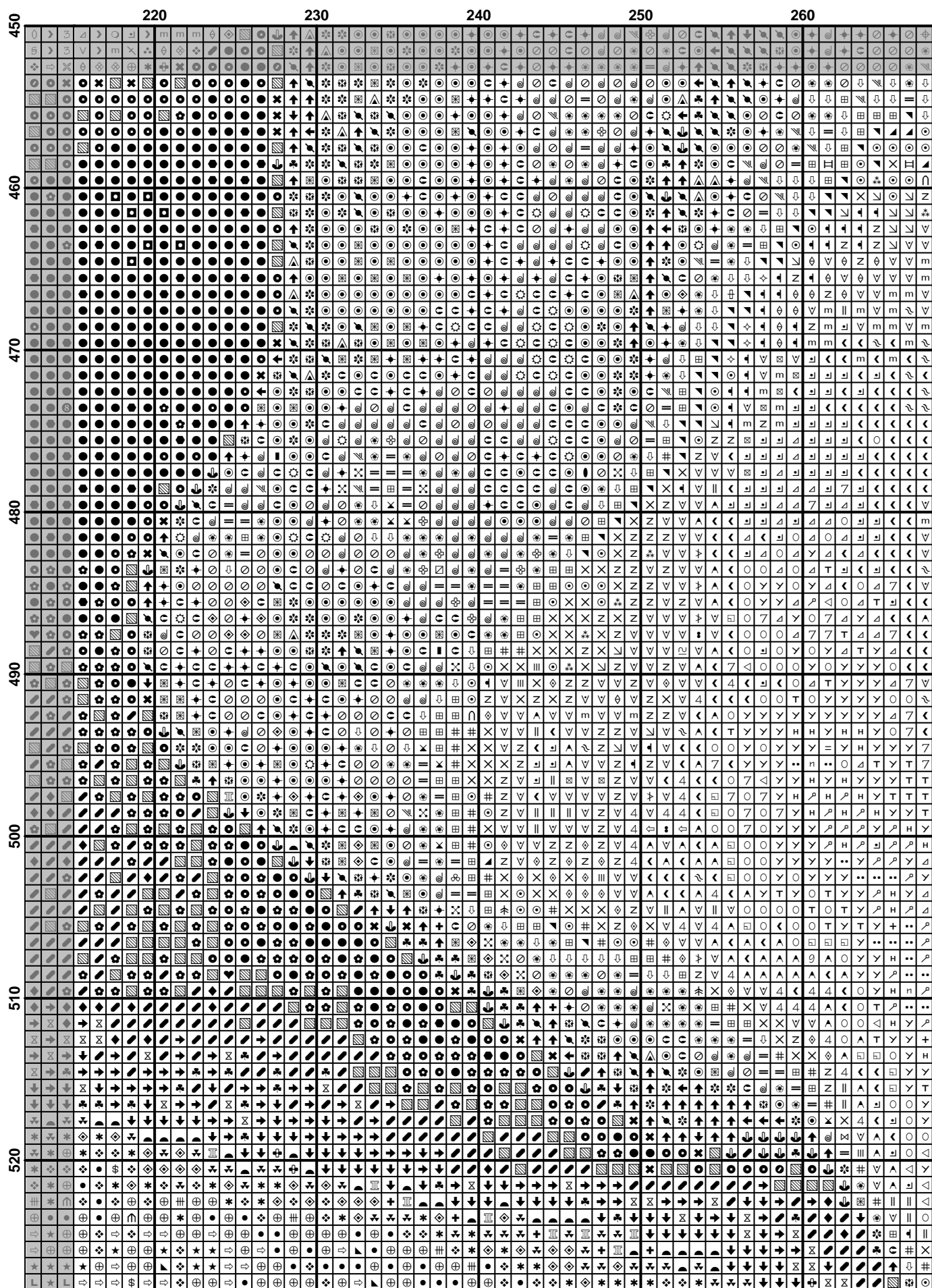




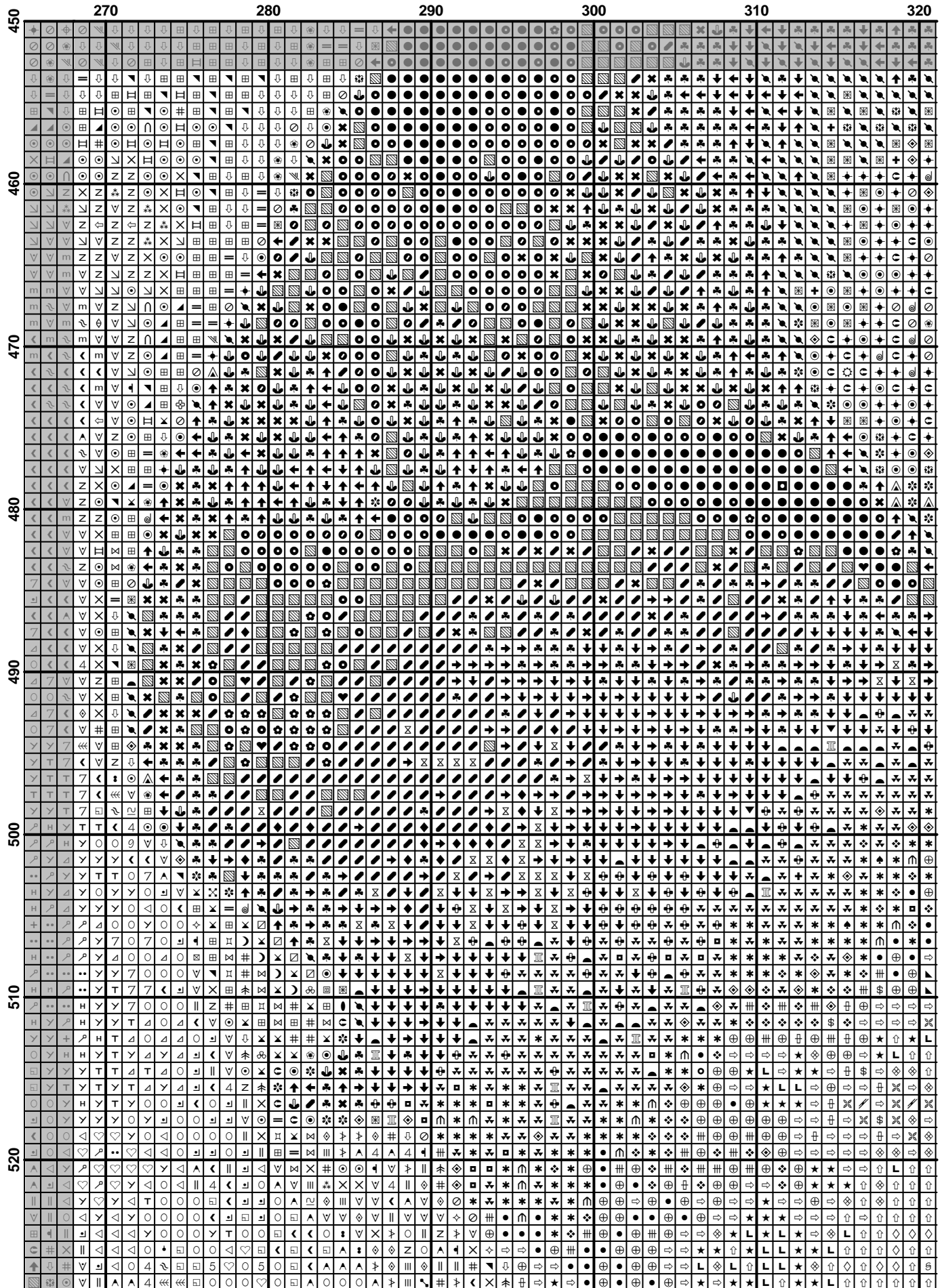


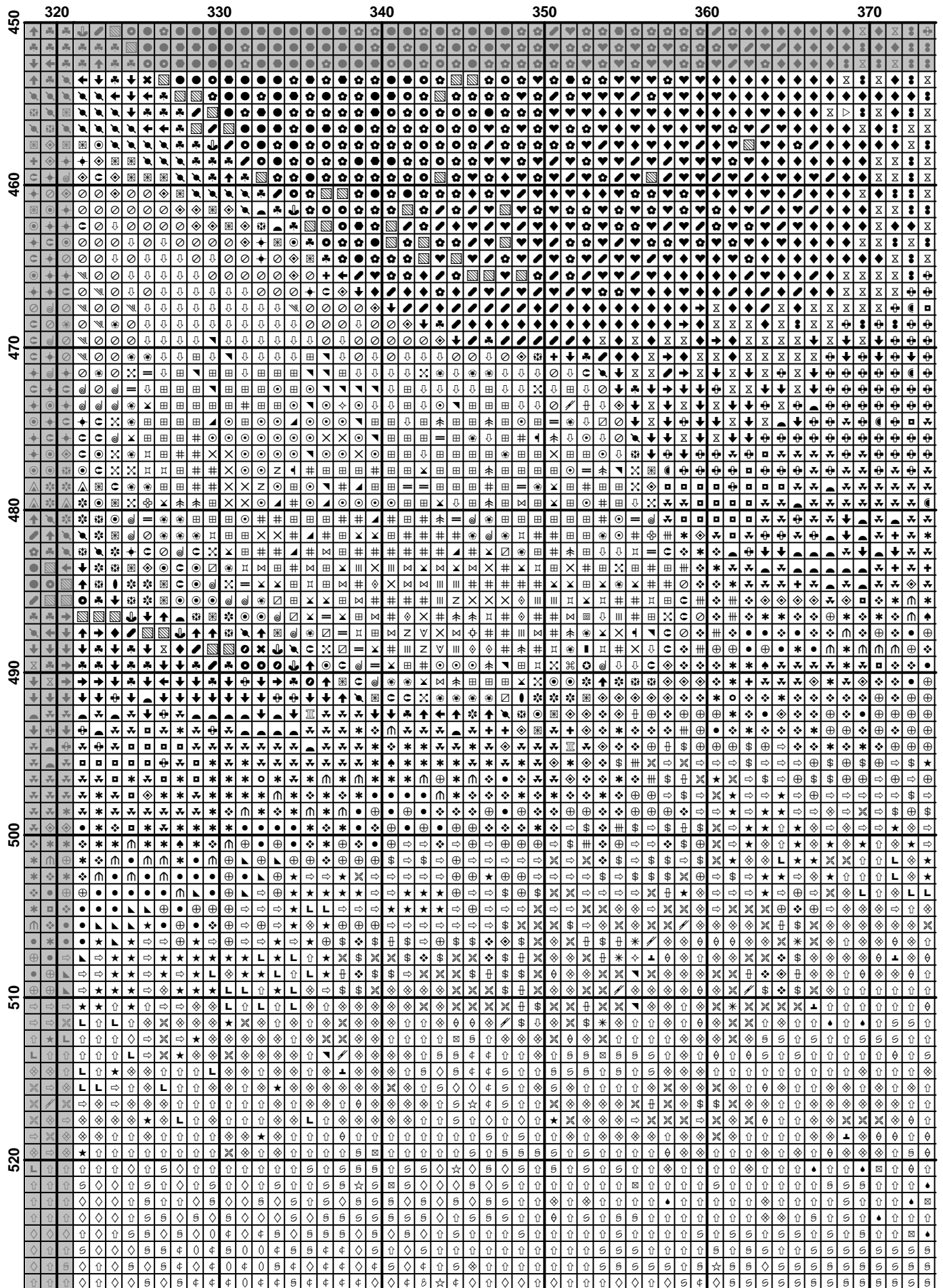


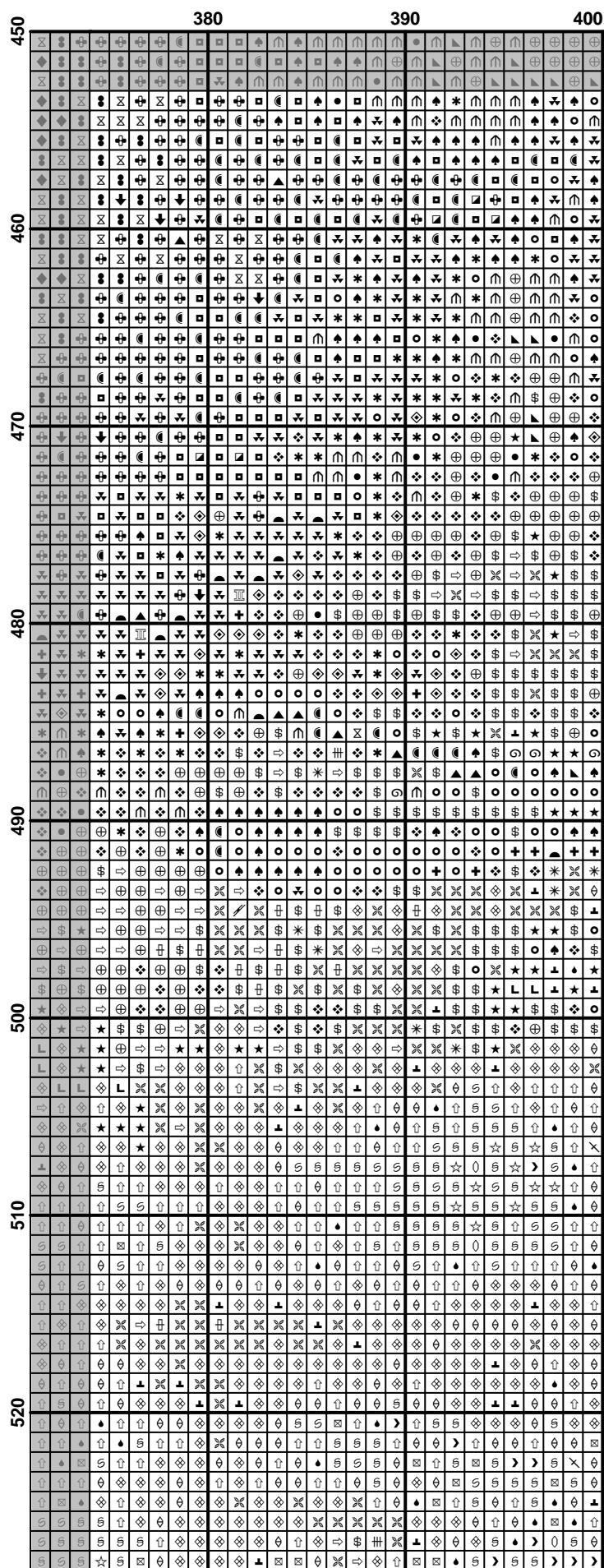


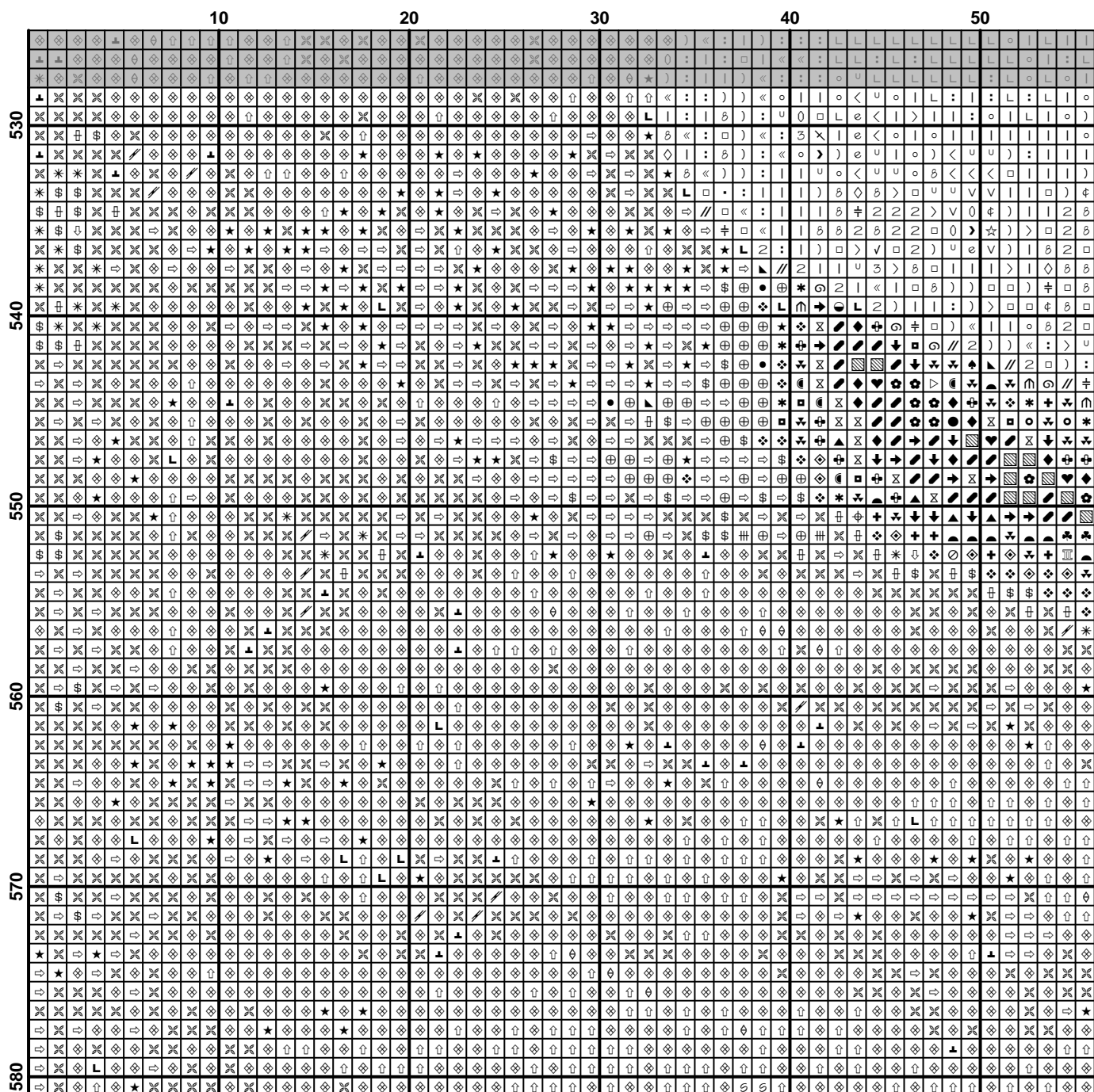


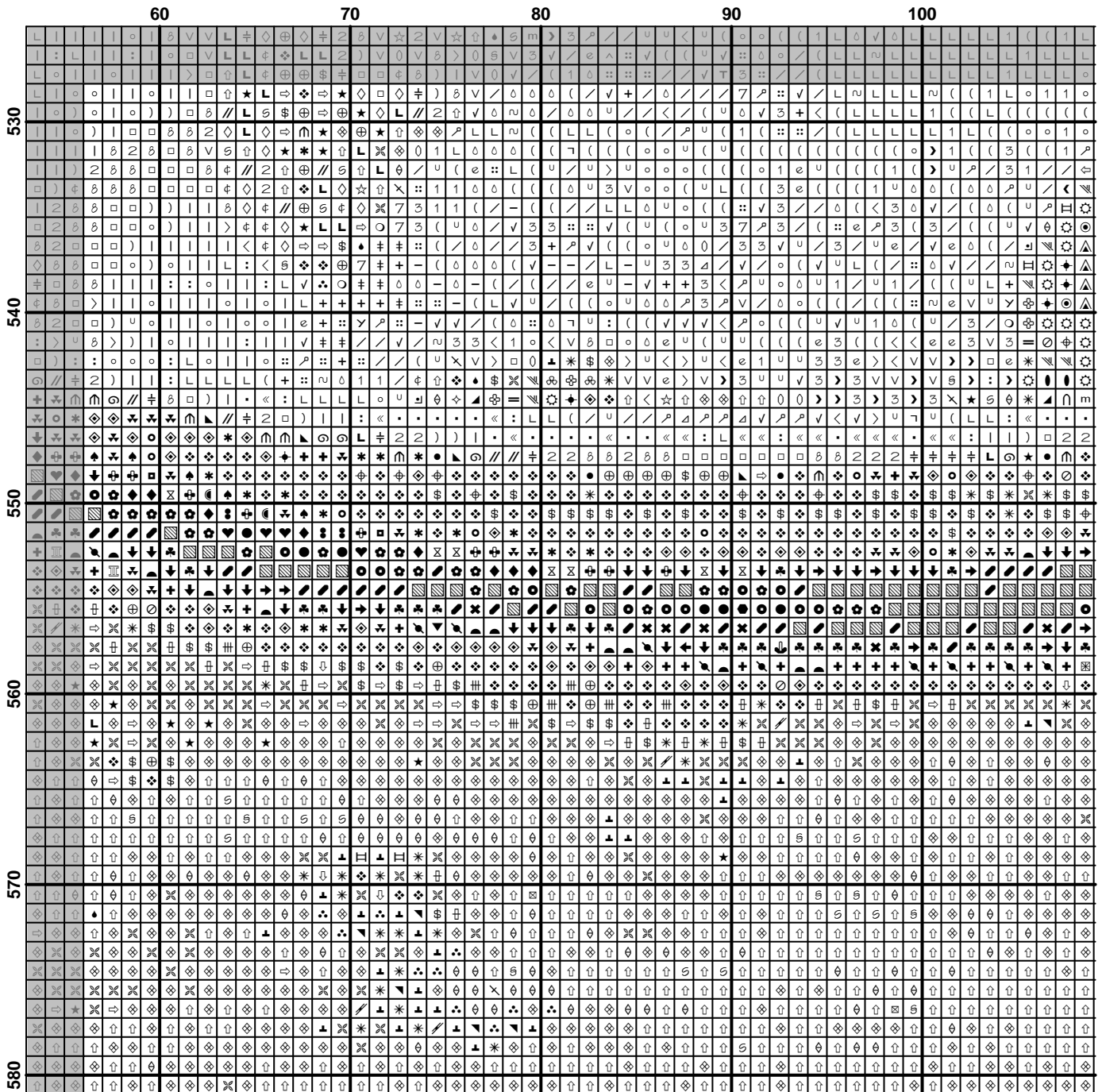


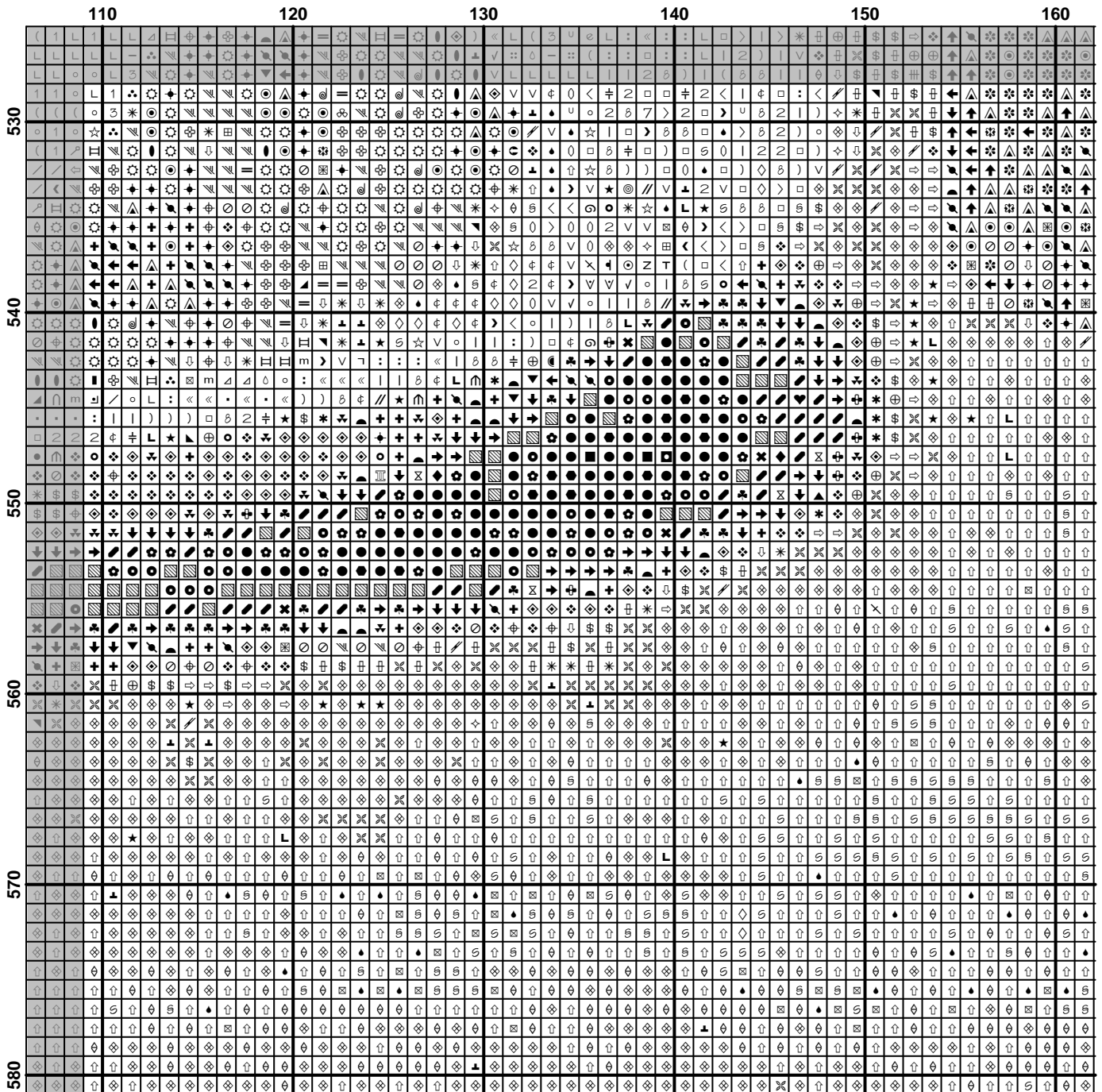


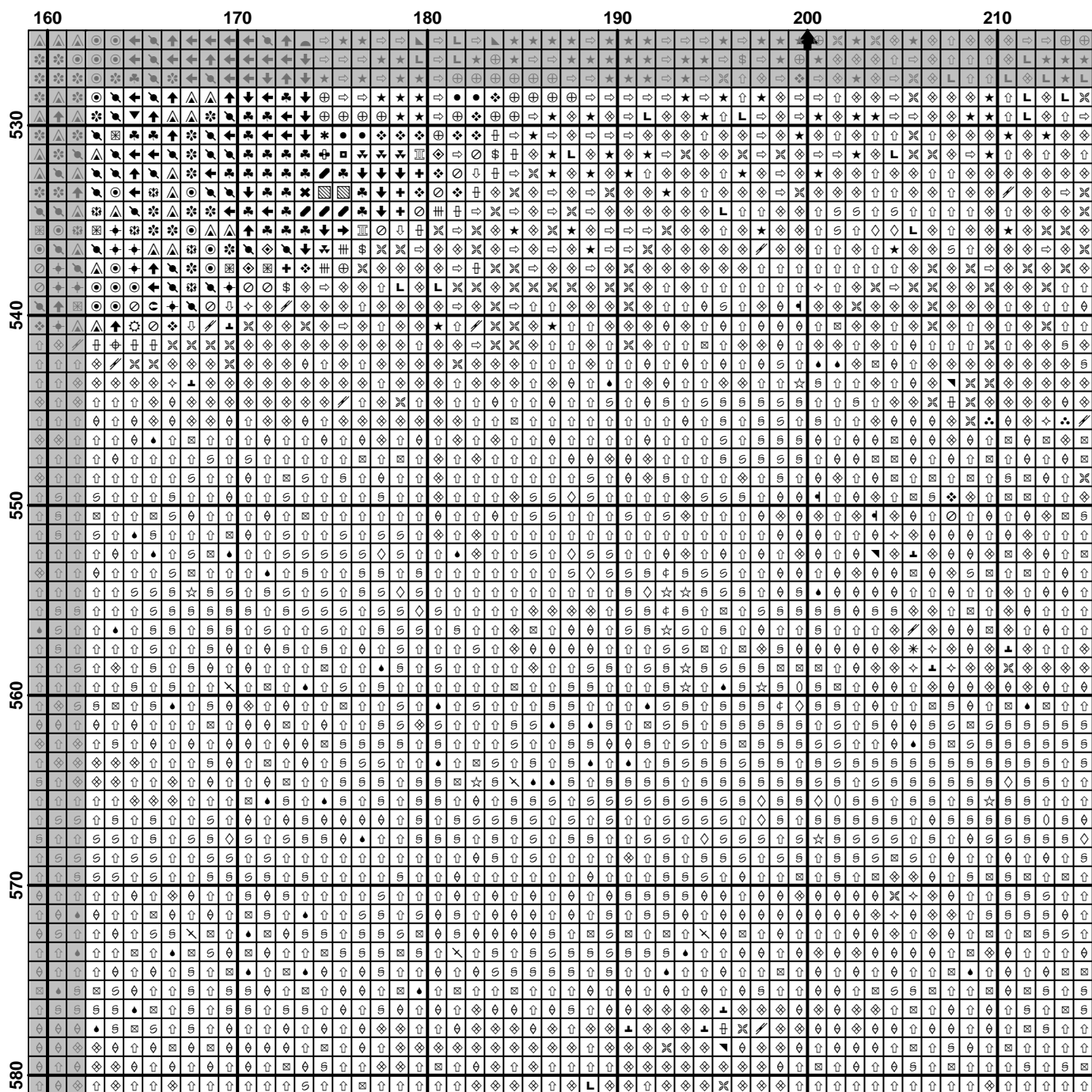


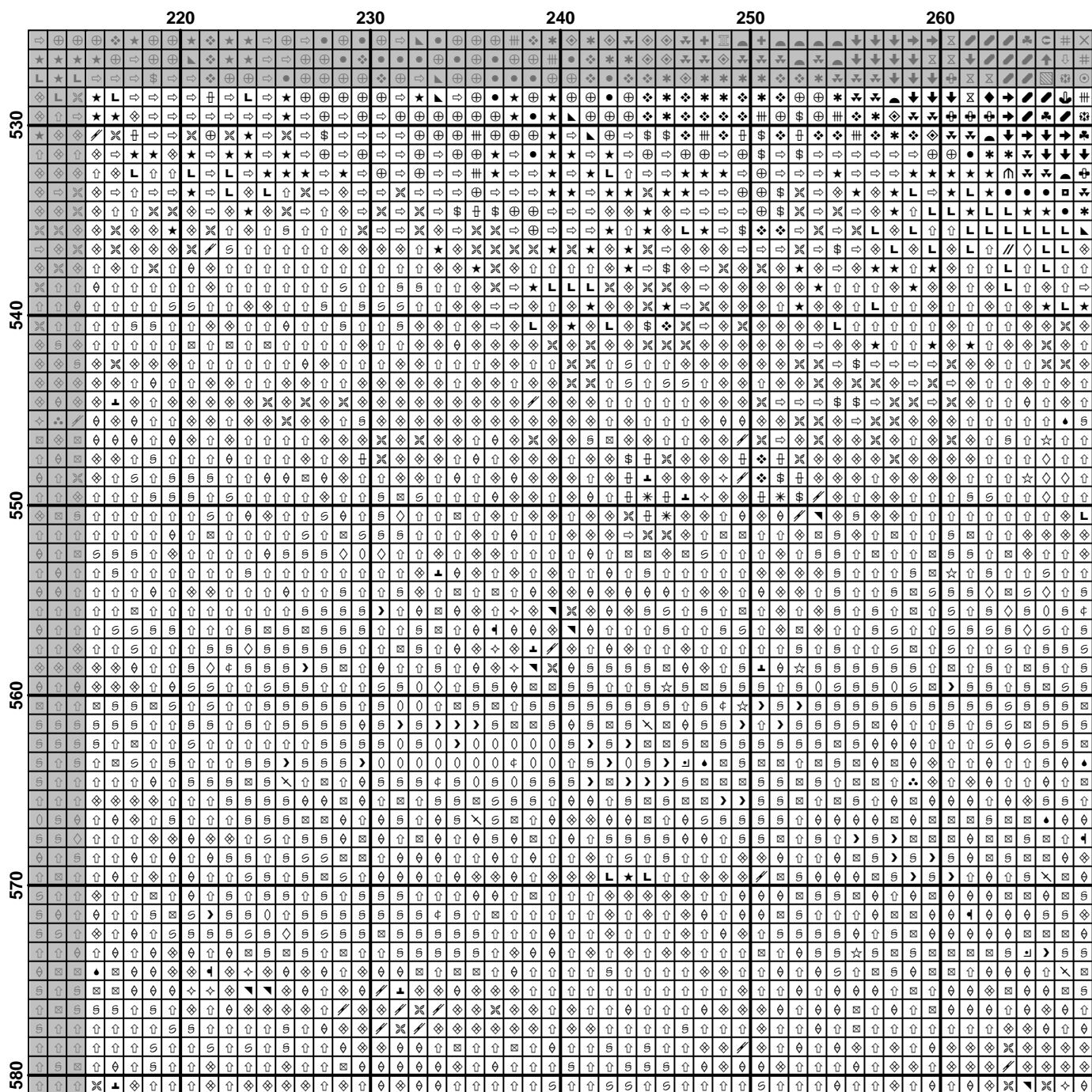














[illegible]

	320	330	340	350	360	370
530	◇	◇	◇	◇	◇	◇
540	◇	◇	◇	◇	◇	◇
550	◇	◇	◇	◇	◇	◇
560	◇	◇	◇	◇	◇	◇
570	◇	◇	◇	◇	◇	◇
580	◇	◇	◇	◇	◇	◇

[illegible]