

944 The Empress Eugenie



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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 Empress Eugenie

Stitch Count	
Horizontal:	900
Vertical:	624

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:	164	64.28	114	44.51	143	56.25	99	38.95	128	50	88	34.625
Including Margins:	180	71	130	51	159	63	115	45	144	57	104	41
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	229	89.99	159	62.31	191	74.99	133	51.92	95	37.49	66	25.96
Including Margins:	245	96	175	69	207	81	149	58	111	44	82	32
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	91	35.99	63	24.92	88	34.61	61	23.96	85	33.33	59	23.07
Including Margins:	107	42	79	31	104	41	77	30	101	40	75	30
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	82	32.14	57	22.25	76	29.99	53	20.77	71	28.12	49	19.47
Including Margins:	98	39	73	29	92	36	69	27	87	35	65	26

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
⦿	315	Antique Mauve-VY DK
⦿	317	Pewter Gray
□	318	Steel Gray-LT
⦿	356	Terra Cotta-MD
•	369	Pistachio Green-VY LT
⦿	371	Mustard
⦿	372	Mustard-LT
m	407	Desert Sand-DK
⦿	413	Pewter Gray -DK
L	414	Steel Gray-DK
//	415	Pearl Gray
*	420	Hazelnut Brown-DK
ρ	422	Hazelnut Brown-LT
⦿	437	Tan-LT
⦿	451	Shell Gray-DK
⦿	452	Shell Gray-MD
⦿	502	Blue Green
⦿	503	Blue Green-MD
★	522	Fern Green
⦿	535	Ash Gray -VY LT
5	543	Beige Brown-UL VY LT
↑	563	Jade-LT
⇒	564	Jade-VY LT
⦿	610	Drab Brown-DK
△	611	Drab Brown
▷	613	Drab Brown-VY LT
▼	632	Desert Sand-UL VY DK
⦿	640	Beige Gray-VY DK
⦿	642	Beige Gray-DK
⦿	645	Beaver Gray-VY DK
*	646	Beaver Gray-DK
4	647	Beaver Gray-MD
γ	648	Beaver Gray-LT
3	676	Old Gold-LT
(677	Old Gold-VY LT
c	712	Cream
Δ	738	Tan-VY LT
α	739	Tan-UL VY LT
×	746	Off White
/	754	Peach-LT
↑	758	Terra Cotta-VY LT
+	760	Salmon
⦿	762	Pearl Gray-VY LT
δ	819	Baby Pink-LT
?	822	Beige Gray-LT
↑	839	Beige Brown-DK
«	840	Beige Brown-MD
↘	841	Beige Brown-LT
n	842	Beige Brown-VY LT

✱	844	Beaver Brown-UL DK
⦿	898	Coffee Brown-VY DK
⦿	926	Gray Green-MD
⦿	931	Antique Blue-MD
■	934	Black Avocado Green
⦿	935	Avocado Green-DK
●	938	Coffee Brown-UL DK
9	951	Tawny-LT
7	966	Baby Green-MD
✱	3012	Khaki Green-MD
♥	3021	Brown Gray -VY DK
♦	3022	Brown Gray -MD
↓	3023	Brown Gray -LT
5	3024	Brown Gray -VY LT
●	3031	Mocha Brown-VY DK
z	3032	Mocha Brown-MD
#	3041	Antique Violet-MD
†	3042	Antique Violet-LT
⦿	3046	Yellow Beige-MD
□	3052	Green Gray-MD
H	3053	Green Gray
⦿	3064	Desert Sand
▲	3363	Pine Green-MD
■	3371	Black Brown
✱	3685	Mauve-DK
▲	3721	Shell Pink- DK
⦿	3722	Shell Pink- MD
⦿	3726	Antique Mauve-DK
2	3743	Antique Violet-VY LT
■	3768	Gray Green-DK
6	3770	Tawny-VY LT
⦿	3772	Desert Sand-VY DK
↖	3778	Terra Cotta-LT
➔	3781	Mocha Brown-DK
⦿	3782	Mocha Brown-LT
5	3787	Brown Gray -DK
×	3790	Beige Gray-UL DK
↓	3799	Pewter Gray -VY DK
✱	3802	Antique Mauve-VY DK
..	3817	Celadon Green-LT
○	3822	Straw -LT
::	3823	Yellow -UL Pale
⦿	3828	Hazelnut Brown
✱	3855	Autumn Gold-LT
⦿	3859	Rosewood-LT
✱	3860	Cocoa
*	3861	Cocoa-LT
▼	3862	Mocha Beige-DK
III	3863	Mocha Beige-MD
●	3864	Mocha Beige-LT
∞	3865	Winter White
^	3866	Mocha Brown-UL VY LT
△	Ecu	Ecu

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

Symbol	DMC1	Name1	DMC2	Name2
⦿	645	Beaver Gray-VY DK	3052	Green Gray-MD
►	3787	Brown Gray-DK	3790	Beige Gray-UL DK
↓	839	Beige Brown-DK	844	Beaver Brown-UL DK
●	413	Pewter Gray-DK	3799	Pewter Gray-VY DK
⦿	647	Beaver Gray-MD	503	Blue Green-MD
◇	738	Tan-VY LT	3864	Mocha Beige-LT
⦿	407	Desert Sand-DK	3864	Mocha Beige-LT
⦿	452	Shell Gray-MD	224	Shell Pink-VY LT
⦿	503	Blue Green-MD	646	Beaver Gray-DK
⦿	739	Tan-UL VY LT	945	Tawny
⦿	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
⦿	610	Drab Brown-DK	3790	Beige Gray-UL DK
◀	369	Pistachio Green-VY LT	648	Beaver Gray-LT
⦿	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
⦿	758	Terra Cotta-VY LT	3778	Terra Cotta-LT
⦿	937	Avocado Green-MD	3021	Brown Gray-VY DK
⦿	645	Beaver Gray-VY DK	646	Beaver Gray-DK
⦿	502	Blue Green	317	Pewter Gray
⦿	317	Pewter Gray	3768	Gray Green-DK
◀	931	Antique Blue-MD	3768	Gray Green-DK
▶	913	Nile Green-MD	926	Gray Green-MD
⦿	3781	Mocha Brown-DK	610	Drab Brown-DK
⦿	831	Golden Olive-MD	610	Drab Brown-DK
◆	3021	Brown Gray-VY DK	844	Beaver Brown-UL DK
◐	503	Blue Green-MD	926	Gray Green-MD
	371	Mustard	3022	Brown Gray-MD
⦿	414	Steel Gray-DK	503	Blue Green-MD
⦿	648	Beaver Gray-LT	523	Fern Green-LT
⦿	3817	Celadon Green-LT	503	Blue Green-MD
⦿	436	Tan	372	Mustard-LT
♠	3363	Pine Green-MD	610	Drab Brown-DK
◊	648	Beaver Gray-LT	738	Tan-VY LT
⦿	648	Beaver Gray-LT	3782	Mocha Brown-LT
♣	839	Beige Brown-DK	610	Drab Brown-DK
▼	3363	Pine Green-MD	611	Drab Brown
+	937	Avocado Green-MD	610	Drab Brown-DK
◀	937	Avocado Green-MD	3781	Mocha Brown-DK
⦿	610	Drab Brown-DK	3787	Brown Gray-DK
⦿	3053	Green Gray	371	Mustard
⦿	503	Blue Green-MD	523	Fern Green-LT
◀	523	Fern Green-LT	564	Jade-VY LT
⦿	793	Cornflower Blue-MD	414	Steel Gray-DK
⦿	503	Blue Green-MD	3861	Cocoa-LT
⦿	610	Drab Brown-DK	315	Antique Mauve-VY DK
⦿	3862	Mocha Beige-DK	3363	Pine Green-MD
⦿	3363	Pine Green-MD	3787	Brown Gray-DK
◊	523	Fern Green-LT	927	Gray Green-LT
◐	564	Jade-VY LT	3817	Celadon Green-LT
⦿	648	Beaver Gray-LT	318	Steel Gray-LT
◊	318	Steel Gray-LT	966	Baby Green-MD
⦿	613	Drab Brown-VY LT	648	Beaver Gray-LT
✓	3046	Yellow Beige-MD	3855	Autumn Gold-LT
1	738	Tan-VY LT	3855	Autumn Gold-LT

u	3779	Terra Cotta-UL VY LT	613	Drab Brown-VY LT
Φ	223	Shell Pink-LT	451	Shell Gray-DK
✕	407	Desert Sand-DK	3863	Mocha Beige-MD
⊗	738	Tan-VY LT	945	Tawny
⊗	3064	Desert Sand	3828	Hazelnut Brown
∩	407	Desert Sand-DK	451	Shell Gray-DK
∕	758	Terra Cotta-VY LT	3064	Desert Sand
⇐	738	Tan-VY LT	758	Terra Cotta-VY LT
L	738	Tan-VY LT	3046	Yellow Beige-MD
)	739	Tan-UL VY LT	677	Old Gold-VY LT
β	677	Old Gold-VY LT	945	Tawny
◁	648	Beaver Gray-LT	966	Baby Green-MD
∕	738	Tan-VY LT	739	Tan-UL VY LT
o	610	Drab Brown-DK	3012	Khaki Green-MD
∩	315	Antique Mauve-VY DK	535	Ash Gray-VY LT
c	502	Blue Green	645	Beaver Gray-VY DK
=	318	Steel Gray-LT	415	Pearl Gray
⇐	951	Tawny-LT	3823	Yellow-UL Pale
☾	3787	Brown Gray-DK	640	Beige Gray-VY DK
♡	746	Off White	3770	Tawny-VY LT
⊗	3363	Pine Green-MD	844	Beaver Brown-UL DK
o	838	Beige Brown-VY DK	839	Beige Brown-DK
γ	613	Drab Brown-VY LT	739	Tan-UL VY LT
●	3726	Antique Mauve-DK	3772	Desert Sand-VY DK
e	224	Shell Pink-VY LT	962	Dusty Rose-MD
⊙	3064	Desert Sand	356	Terra Cotta-MD
=	315	Antique Mauve-VY DK	3772	Desert Sand-VY DK
∕	415	Pearl Gray	451	Shell Gray-DK
⊕	318	Steel Gray-LT	414	Steel Gray-DK
:	3743	Antique Violet-VY LT	3753	Antique Blue-UL VY LT
☆	819	Baby Pink-LT	762	Pearl Gray-VY LT
∕	3042	Antique Violet-LT	3743	Antique Violet-VY LT
∕	318	Steel Gray-LT	3041	Antique Violet-MD
>	3024	Brown Gray-VY LT	3866	Mocha Brown-UL VY LT
◇	415	Pearl Gray	955	Nile Green-LT
⊗	793	Cornflower Blue-MD	932	Antique Blue-LT
■	3721	Shell Pink-DK	315	Antique Mauve-VY DK
∩	3722	Shell Pink-MD	3772	Desert Sand-VY DK
●	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
III	502	Blue Green	535	Ash Gray-VY LT
▲	3860	Cocoa	451	Shell Gray-DK
■	937	Avocado Green-MD	535	Ash Gray-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	
223	Shell Pink-LT	341	134	325	127	292	114
224	Shell Pink-VY LT	289	113	275	108	248	97
315	Antique Mauve-VY DK	1021	401	972	382	875	344
317	Pewter Gray	422	166	402	158	362	142
318	Steel Gray-LT	646	254	615	242	553	217
356	Terra Cotta-MD	46	18	44	17	39	15
369	Pistachio Green-VY LT	510	200	486	191	437	172
371	Mustard	944	371	899	353	809	318
372	Mustard-LT	726	285	691	272	622	244
407	Desert Sand-DK	1137	447	1083	426	975	383
413	Pewter Gray -DK	1272	500	1212	477	1090	429
414	Steel Gray -DK	487	191	464	182	418	164
415	Pearl Gray	499	196	475	187	428	168
420	Hazelnut Brown-DK	73	28	70	27	63	24
422	Hazelnut Brown-LT	206	81	196	77	176	69
436	Tan	171	67	163	64	147	57
437	Tan-LT	126	49	120	47	108	42
451	Shell Gray-DK	1550	610	1477	581	1329	523
452	Shell Gray-MD	391	153	372	146	335	131
502	Blue Green	901	354	859	338	773	304
503	Blue Green-MD	1734	682	1651	650	1486	585
522	Fern Green	428	168	408	160	367	144
523	Fern Green-LT	1057	416	1007	396	906	356
535	Ash Gray -VY LT	4103	1615	3907	1538	3516	1384
543	Beige Brown-UL VY LT	722	284	688	270	619	243
563	Jade-LT	37	14	35	13	31	12
564	Jade-VY LT	278	109	265	104	238	93
610	Drab Brown-DK	4627	1821	4407	1735	3966	1561
611	Drab Brown	819	322	780	307	702	276
613	Drab Brown-VY LT	1246	490	1187	467	1068	420
632	Desert Sand-UL VY DK	194	76	185	72	166	65
640	Beige Gray-VY DK	1271	500	1211	476	1090	429
642	Beige Gray-DK	487	191	464	182	418	164
645	Beaver Gray-VY DK	2497	983	2378	936	2140	842
646	Beaver Gray-DK	1273	501	1213	477	1091	429
647	Beaver Gray-MD	1028	404	979	385	881	346
648	Beaver Gray-LT	3036	1195	2891	1138	2602	1024
676	Old Gold-LT	37	14	36	14	32	12
677	Old Gold-VY LT	520	204	496	195	446	175
712	Cream	713	280	679	267	611	240
738	Tan-VY LT	1677	660	1597	628	1438	566
739	Tan-UL VY LT	1253	493	1193	469	1074	422
746	Off White	1580	622	1505	592	1354	533
754	Peach-LT	72	28	69	27	62	24
758	Terra Cotta-VY LT	334	131	319	125	287	112
760	Salmon	12	4	12	4	10	3
762	Pearl Gray-VY LT	237	93	226	88	203	79
793	Cornflower Blue-MD	91	35	87	34	78	30
819	Baby Pink-LT	205	80	195	76	176	69
822	Beige Gray-LT	812	319	773	304	696	274
831	Golden Olive-MD	191	75	182	71	164	64
838	Beige Brown-VY DK	898	353	855	336	770	303
839	Beige Brown-DK	3827	1506	3645	1435	3281	1291
840	Beige Brown-MD	538	211	512	201	461	181

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841	Beige Brown-LT	644	253	613	241	552	217
842	Beige Brown-VY LT	270	106	257	101	231	90
844	Beaver Brown-UL DK	8162	3213	7773	3060	6996	2754
898	Coffee Brown-VY DK	537	211	512	201	460	181
913	Nile Green-MD	51	20	48	18	44	17
926	Gray Green-MD	609	239	580	228	522	205
927	Gray Green-LT	356	140	339	133	305	120
931	Antique Blue-MD	211	83	201	79	181	71
932	Antique Blue-LT	41	16	39	15	35	13
934	Black Avocado Green	8886	3498	8463	3331	7617	2998
935	Avocado Green-DK	820	322	781	307	703	276
937	Avocado Green-MD	1978	778	1884	741	1695	667
938	Coffee Brown-UL DK	9730	3830	9267	3648	8340	3283
945	Tawny	359	141	342	134	307	120
951	Tawny-LT	569	224	542	213	488	192
955	Nile Green-LT	123	48	117	46	105	41
962	Dusty Rose-MD	18	7	17	6	15	5
966	Baby Green-MD	607	238	578	227	520	204
3012	Khaki Green-MD	1001	394	953	375	858	337
3021	Brown Gray-VY DK	12592	4957	11992	4721	10793	4249
3022	Brown Gray-MD	1201	472	1144	450	1030	405
3023	Brown Gray-LT	727	286	692	272	623	245
3024	Brown Gray-VY LT	1381	543	1315	517	1183	465
3031	Mocha Brown-VY DK	6360	2503	6057	2384	5451	2146
3032	Mocha Brown-MD	489	192	466	183	419	164
3041	Antique Violet-MD	233	91	222	87	199	78
3042	Antique Violet-LT	116	45	110	43	99	38
3046	Yellow Beige-MD	363	142	346	136	311	122
3052	Green Gray-MD	1204	474	1146	451	1032	406
3053	Green Gray	620	244	591	232	532	209
3064	Desert Sand	339	133	323	127	291	114
3363	Pine Green-MD	2091	823	1992	784	1793	705
3371	Black Brown	11695	4604	11138	4385	10024	3946
3685	Mauve-DK	33	12	31	12	28	11
3721	Shell Pink-DK	92	36	88	34	79	31
3722	Shell Pink-MD	114	44	108	42	97	38
3726	Antique Mauve-DK	149	58	142	55	128	50
3743	Antique Violet-VY LT	215	84	205	80	184	72
3753	Antique Blue-UL VY LT	31	12	29	11	26	10
3768	Gray Green-DK	251	98	239	94	215	84
3770	Tawny-VY LT	654	257	623	245	560	220
3772	Desert Sand-VY DK	523	205	498	196	448	176
3778	Terra Cotta-LT	46	18	43	16	39	15
3779	Terra Cotta-UL VY LT	129	50	123	48	110	43
3781	Mocha Brown-DK	2169	853	2066	813	1859	731
3782	Mocha Brown-LT	1133	446	1079	424	971	382
3787	Brown Gray-DK	4568	1798	4350	1712	3915	1541
3790	Beige Gray-UL DK	1201	472	1144	450	1030	405
3799	Pewter Gray-VY DK	13761	5417	13106	5159	11795	4643
3802	Antique Mauve-VY DK	223	87	213	83	191	75
3817	Celadon Green-LT	543	213	517	203	465	183
3822	Straw-LT	14	5	13	5	12	4
3823	Yellow-UL Pale	832	327	793	312	713	280
3828	Hazelnut Brown	133	52	127	50	114	44
3855	Autumn Gold-LT	184	72	176	69	158	62
3859	Rosewood-LT	162	63	155	61	139	54
3860	Cocoa	965	379	919	361	827	325
3861	Cocoa-LT	695	273	662	260	596	234
3862	Mocha Beige-DK	617	242	588	231	529	208

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3863	Mocha Beige-MD	762	300	726	285	653	257
3864	Mocha Beige-LT	1187	467	1130	444	1017	400
3865	Winter White	113	44	107	42	97	38
3866	Mocha Brown-UL VY LT	1982	780	1887	742	1699	668
Ecru	Ecru	977	384	931	366	837	329

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	526	205	438	171	219	86
224	Shell Pink-VY LT	446	175	372	146	186	73
315	Antique Mauve-VY DK	1575	619	1313	516	656	258
317	Pewter Gray	652	256	543	213	272	107
318	Steel Gray-LT	995	391	830	326	415	163
356	Terra Cotta-MD	70	27	59	23	29	11
369	Pistachio Green-VY LT	787	310	656	258	328	129
371	Mustard	1456	572	1214	477	607	239
372	Mustard-LT	1120	439	933	366	467	183
407	Desert Sand-DK	1755	689	1463	575	731	287
413	Pewter Gray -DK	1962	772	1635	644	818	322
414	Steel Gray-DK	752	295	627	246	314	123
415	Pearl Gray	770	302	642	252	321	126
420	Hazelnut Brown-DK	113	43	95	36	47	18
422	Hazelnut Brown-LT	317	124	264	104	132	52
436	Tan	265	103	221	86	110	43
437	Tan-LT	194	76	162	63	81	32
451	Shell Gray-DK	2392	941	1994	785	997	392
452	Shell Gray-MD	603	236	503	197	251	98
502	Blue Green	1391	547	1160	456	580	228
503	Blue Green-MD	2675	1053	2229	878	1115	439
522	Fern Green	661	259	551	216	275	108
523	Fern Green-LT	1631	641	1359	534	680	267
535	Ash Gray-VY LT	6329	2491	5274	2076	2637	1038
543	Beige Brown-UL VY LT	1114	437	929	365	464	182
563	Jade-LT	56	22	47	18	23	9
564	Jade-VY LT	428	167	357	140	179	70
610	Drab Brown-DK	7139	2810	5949	2342	2975	1171
611	Drab Brown	1264	497	1053	414	527	207
613	Drab Brown-VY LT	1922	756	1602	630	801	315
632	Desert Sand-UL VY DK	299	117	249	98	125	49
640	Beige Gray-VY DK	1962	772	1635	644	818	322
642	Beige Gray-DK	752	295	627	246	314	123
645	Beaver Gray-VY DK	3852	1516	3210	1263	1605	632
646	Beaver Gray-DK	1964	772	1637	644	818	322
647	Beaver Gray-MD	1586	623	1322	519	661	260
648	Beaver Gray-LT	4684	1843	3903	1536	1952	768
676	Old Gold-LT	58	22	48	18	24	9
677	Old Gold-VY LT	803	315	669	263	335	131
712	Cream	1100	432	917	360	458	180
738	Tan-VY LT	2588	1019	2157	849	1079	425
739	Tan-UL VY LT	1933	760	1611	633	806	317
746	Off White	2437	959	2031	800	1016	400
754	Peach-LT	112	43	93	36	47	18
758	Terra Cotta-VY LT	517	202	431	168	215	84
760	Salmon	18	5	15	5	8	2
762	Pearl Gray-VY LT	365	142	305	119	152	59

793	Cornflower Blue-MD	140	54	117	45	59	23
819	Baby Pink-LT	317	124	264	104	132	52
822	Beige Gray-LT	1253	493	1044	411	522	206
831	Golden Olive-MD	295	115	246	96	123	48
838	Beige Brown-VY DK	1386	545	1155	455	578	227
839	Beige Brown-DK	5906	2324	4922	1937	2461	968
840	Beige Brown-MD	830	326	692	272	346	136
841	Beige Brown-LT	994	391	828	326	414	163
842	Beige Brown-VY LT	416	162	347	135	173	68
844	Beaver Brown-UL DK	12593	4957	10494	4131	5247	2066
898	Coffee Brown-VY DK	828	326	690	272	345	136
913	Nile Green-MD	79	31	66	26	33	13
926	Gray Green-MD	940	369	783	308	392	154
927	Gray Green-LT	549	216	458	180	229	90
931	Antique Blue-MD	326	128	272	107	136	53
932	Antique Blue-LT	63	23	53	20	26	10
934	Black Avocado Green	13711	5396	11426	4497	5713	2249
935	Avocado Green-DK	1265	497	1055	414	527	207
937	Avocado Green-MD	3051	1201	2543	1001	1271	500
938	Coffee Brown-UL DK	15012	5909	12510	4925	6255	2462
945	Tawny	553	216	461	180	230	90
951	Tawny-LT	878	346	732	288	366	144
955	Nile Green-LT	189	74	158	62	79	31
962	Dusty Rose-MD	27	9	23	8	11	4
966	Baby Green-MD	936	367	780	306	390	153
3012	Khaki Green-MD	1544	607	1287	506	644	253
3021	Brown Gray-VY DK	19427	7648	16190	6374	8095	3187
3022	Brown Gray-MD	1854	729	1545	608	773	304
3023	Brown Gray-LT	1121	441	935	368	467	184
3024	Brown Gray-VY LT	2129	837	1775	698	887	349
3031	Mocha Brown-VY DK	9812	3863	8177	3219	4088	1610
3032	Mocha Brown-MD	754	295	629	246	314	123
3041	Antique Violet-MD	358	140	299	117	149	59
3042	Antique Violet-LT	178	68	149	57	74	29
3046	Yellow Beige-MD	560	220	467	183	233	92
3052	Green Gray-MD	1858	731	1548	609	774	305
3053	Green Gray	958	376	798	314	399	157
3064	Desert Sand	524	205	437	171	218	86
3363	Pine Green-MD	3227	1269	2690	1058	1345	529
3371	Black Brown	18043	7103	15036	5919	7518	2960
3685	Mauve-DK	50	20	42	17	21	8
3721	Shell Pink-DK	142	56	119	47	59	23
3722	Shell Pink-MD	175	68	146	57	73	29
3726	Antique Mauve-DK	230	90	192	75	96	38
3743	Antique Violet-VY LT	331	130	276	108	138	54
3753	Antique Blue-UL VY LT	47	18	39	15	20	8
3768	Gray Green-DK	387	151	323	126	161	63
3770	Tawny-VY LT	1008	396	840	330	420	165
3772	Desert Sand-VY DK	806	317	672	264	336	132
3778	Terra Cotta-LT	70	27	59	23	29	11
3779	Terra Cotta-UL VY LT	198	77	165	65	83	32
3781	Mocha Brown-DK	3346	1316	2789	1097	1394	548
3782	Mocha Brown-LT	1748	688	1457	573	728	287
3787	Brown Gray-DK	7047	2774	5873	2312	2936	1156
3790	Beige Gray-UL DK	1854	729	1545	608	773	304
3799	Pewter Gray-VY DK	21231	8357	17693	6965	8846	3482
3802	Antique Mauve-VY DK	344	135	287	113	143	56
3817	Celadon Green-LT	837	329	698	275	349	137
3822	Straw-LT	22	7	18	6	9	3

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3823	Yellow -UL Pale	1283	504	1070	420	535	210
3828	Hazelnut Brown	205	79	171	66	86	33
3855	Autumn Gold-LT	284	112	237	93	119	47
3859	Rosewood-LT	250	97	209	81	104	41
3860	Cocoa	1489	585	1241	488	620	244
3861	Cocoa-LT	1073	421	894	351	447	176
3862	Mocha Beige-DK	952	374	794	312	397	156
3863	Mocha Beige-MD	1175	463	980	386	490	193
3864	Mocha Beige-LT	1831	720	1526	600	763	300
3865	Winter White	175	68	146	57	73	29
3866	Mocha Brown-UL VY LT	3058	1202	2549	1002	1274	501
Ecru	Ecru	1507	592	1256	494	628	247

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	210	82	202	79	195	76
224	Shell Pink-VY LT	179	70	172	67	165	65
315	Antique Mauve-VY DK	630	248	606	238	583	229
317	Pewter Gray	261	102	251	98	241	95
318	Steel Gray-LT	398	156	383	150	369	145
356	Terra Cotta-MD	28	11	27	10	26	10
369	Pistachio Green-VY LT	315	124	303	119	291	115
371	Mustard	582	229	560	220	539	212
372	Mustard-LT	448	176	431	169	415	163
407	Desert Sand-DK	702	276	675	265	650	255
413	Pewter Gray -DK	785	309	755	297	727	286
414	Steel Gray-DK	301	118	289	114	279	109
415	Pearl Gray	308	121	296	116	285	112
420	Hazelnut Brown-DK	45	17	44	17	42	16
422	Hazelnut Brown-LT	127	50	122	48	117	46
436	Tan	106	41	102	39	98	38
437	Tan-LT	78	30	75	29	72	28
451	Shell Gray-DK	957	377	920	362	886	349
452	Shell Gray-MD	241	94	232	91	223	87
502	Blue Green	557	219	535	210	515	203
503	Blue Green-MD	1070	421	1029	405	991	390
522	Fern Green	264	104	254	100	245	96
523	Fern Green-LT	652	256	627	246	604	237
535	Ash Gray -VY LT	2532	996	2434	958	2344	923
543	Beige Brown-UL VY LT	446	175	429	168	413	162
563	Jade-LT	22	9	21	8	21	8
564	Jade-VY LT	171	67	165	64	159	62
610	Drab Brown-DK	2856	1124	2746	1081	2644	1041
611	Drab Brown	505	199	486	191	468	184
613	Drab Brown-VY LT	769	302	739	291	712	280
632	Desert Sand-UL VY DK	120	47	115	45	111	43
640	Beige Gray-VY DK	785	309	755	297	727	286
642	Beige Gray-DK	301	118	289	114	279	109
645	Beaver Gray-VY DK	1541	606	1482	583	1427	561
646	Beaver Gray-DK	786	309	755	297	727	286
647	Beaver Gray-MD	634	249	610	240	587	231
648	Beaver Gray-LT	1873	737	1801	709	1735	683
676	Old Gold-LT	23	9	22	8	21	8
677	Old Gold-VY LT	321	126	309	121	297	117
712	Cream	440	173	423	166	407	160

738	Tan-VY LT	1035	408	996	392	959	377
739	Tan-UL VY LT	773	304	744	292	716	281
746	Off White	975	384	937	369	903	355
754	Peach-LT	45	17	43	17	41	16
758	Terra Cotta-VY LT	207	81	199	78	191	75
760	Salmon	7	2	7	2	7	2
762	Pearl Gray-VY LT	146	57	141	55	135	53
793	Cornflower Blue-MD	56	22	54	21	52	20
819	Baby Pink-LT	127	50	122	48	117	46
822	Beige Gray-LT	501	197	482	190	464	183
831	Golden Olive-MD	118	46	114	44	109	43
838	Beige Brown-VY DK	554	218	533	210	513	202
839	Beige Brown-DK	2362	930	2271	894	2187	861
840	Beige Brown-MD	332	130	319	125	307	121
841	Beige Brown-LT	397	156	382	150	368	145
842	Beige Brown-VY LT	166	65	160	62	154	60
844	Beaver Brown-UL DK	5037	1983	4843	1907	4664	1836
898	Coffee Brown-VY DK	331	130	318	125	307	121
913	Nile Green-MD	32	12	30	12	29	11
926	Gray Green-MD	376	148	361	142	348	137
927	Gray Green-LT	220	86	211	83	203	80
931	Antique Blue-MD	130	51	125	49	121	47
932	Antique Blue-LT	25	9	24	9	23	9
934	Black Avocado Green	5484	2159	5273	2076	5078	1999
935	Avocado Green-DK	506	199	487	191	469	184
937	Avocado Green-MD	1220	480	1173	462	1130	445
938	Coffee Brown-UL DK	6005	2364	5774	2273	5560	2189
945	Tawny	221	86	213	83	205	80
951	Tawny-LT	351	138	338	133	325	128
955	Nile Green-LT	76	30	73	28	70	27
962	Dusty Rose-MD	11	4	10	3	10	3
966	Baby Green-MD	374	147	360	141	347	136
3012	Khaki Green-MD	618	243	594	233	572	225
3021	Brown Gray -VY DK	7771	3059	7472	2942	7195	2833
3022	Brown Gray -MD	742	292	713	280	687	270
3023	Brown Gray -LT	449	176	431	170	415	163
3024	Brown Gray -VY LT	852	335	819	322	789	310
3031	Mocha Brown-VY DK	3925	1545	3774	1486	3634	1431
3032	Mocha Brown-MD	302	118	290	114	279	109
3041	Antique Violet-MD	143	56	138	54	133	52
3042	Antique Violet-LT	71	27	69	26	66	25
3046	Yellow Beige-MD	224	88	215	84	207	81
3052	Green Gray-MD	743	292	714	281	688	271
3053	Green Gray	383	150	368	145	355	139
3064	Desert Sand	210	82	201	79	194	76
3363	Pine Green-MD	1291	508	1241	488	1195	470
3371	Black Brown	7217	2841	6940	2732	6683	2631
3685	Mauve-DK	20	8	19	8	19	7
3721	Shell Pink-DK	57	22	55	21	53	21
3722	Shell Pink-MD	70	27	67	26	65	25
3726	Antique Mauve-DK	92	36	89	35	85	33
3743	Antique Violet-VY LT	132	52	127	50	123	48
3753	Antique Blue-UL VY LT	19	7	18	7	17	7
3768	Gray Green-DK	155	60	149	58	143	56
3770	Tawny -VY LT	403	158	388	152	373	147
3772	Desert Sand-VY DK	323	127	310	122	299	117
3778	Terra Cotta-LT	28	11	27	10	26	10
3779	Terra Cotta-UL VY LT	79	31	76	30	73	29
3781	Mocha Brown-DK	1338	526	1287	506	1239	487

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3782	Mocha Brown-LT	699	275	672	264	647	255
3787	Brown Gray-DK	2819	1110	2710	1067	2610	1027
3790	Beige Gray-UL DK	742	292	713	280	687	270
3799	Pewter Gray-VY DK	8492	3343	8166	3214	7863	3095
3802	Antique Mauve-VY DK	138	54	132	52	127	50
3817	Celadon Green-LT	335	132	322	127	310	122
3822	Straw-LT	9	3	8	3	8	3
3823	Yellow-UL Pale	513	202	494	194	475	187
3828	Hazelnut Brown	82	32	79	30	76	29
3855	Autumn Gold-LT	114	45	109	43	105	41
3859	Rosewood-LT	100	39	96	37	93	36
3860	Cocoa	595	234	573	225	551	217
3861	Cocoa-LT	429	168	413	162	397	156
3862	Mocha Beige-DK	381	150	366	144	353	139
3863	Mocha Beige-MD	470	185	452	178	435	171
3864	Mocha Beige-LT	732	288	704	277	678	267
3865	Winter White	70	27	67	26	65	25
3866	Mocha Brown-UL VY LT	1223	481	1176	462	1133	445
Ecru	Ecru	603	237	579	228	558	219

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	188	73	175	68	164	64
224	Shell Pink-VY LT	159	62	149	58	140	55
315	Antique Mauve-VY DK	563	221	525	206	492	194
317	Pewter Gray	233	91	217	85	204	80
318	Steel Gray-LT	356	140	332	130	311	122
356	Terra Cotta-MD	25	10	23	9	22	8
369	Pistachio Green-VY LT	281	111	262	103	246	97
371	Mustard	520	204	485	191	455	179
372	Mustard-LT	400	157	373	146	350	137
407	Desert Sand-DK	627	246	585	230	548	215
413	Pewter Gray -DK	701	276	654	257	613	241
414	Steel Gray -DK	269	105	251	98	235	92
415	Pearl Gray	275	108	257	101	241	95
420	Hazelnut Brown-DK	41	15	38	14	35	14
422	Hazelnut Brown-LT	113	44	106	41	99	39
436	Tan	95	37	88	34	83	32
437	Tan-LT	69	27	65	25	61	24
451	Shell Gray-DK	854	336	797	314	748	294
452	Shell Gray-MD	215	84	201	79	188	74
502	Blue Green	497	195	464	182	435	171
503	Blue Green-MD	955	376	892	351	836	329
522	Fern Green	236	93	220	86	206	81
523	Fern Green-LT	582	229	544	214	510	200
535	Ash Gray-VY LT	2260	890	2110	830	1978	779
543	Beige Brown-UL VY LT	398	156	371	146	348	137
563	Jade-LT	20	8	19	7	17	7
564	Jade-VY LT	153	60	143	56	134	52
610	Drab Brown-DK	2550	1004	2380	937	2231	878
611	Drab Brown	451	177	421	166	395	155
613	Drab Brown-VY LT	687	270	641	252	601	236
632	Desert Sand-UL VY DK	107	42	100	39	93	37
640	Beige Gray-VY DK	701	276	654	257	613	241
642	Beige Gray-DK	269	105	251	98	235	92
645	Beaver Gray-VY DK	1376	541	1284	505	1204	474

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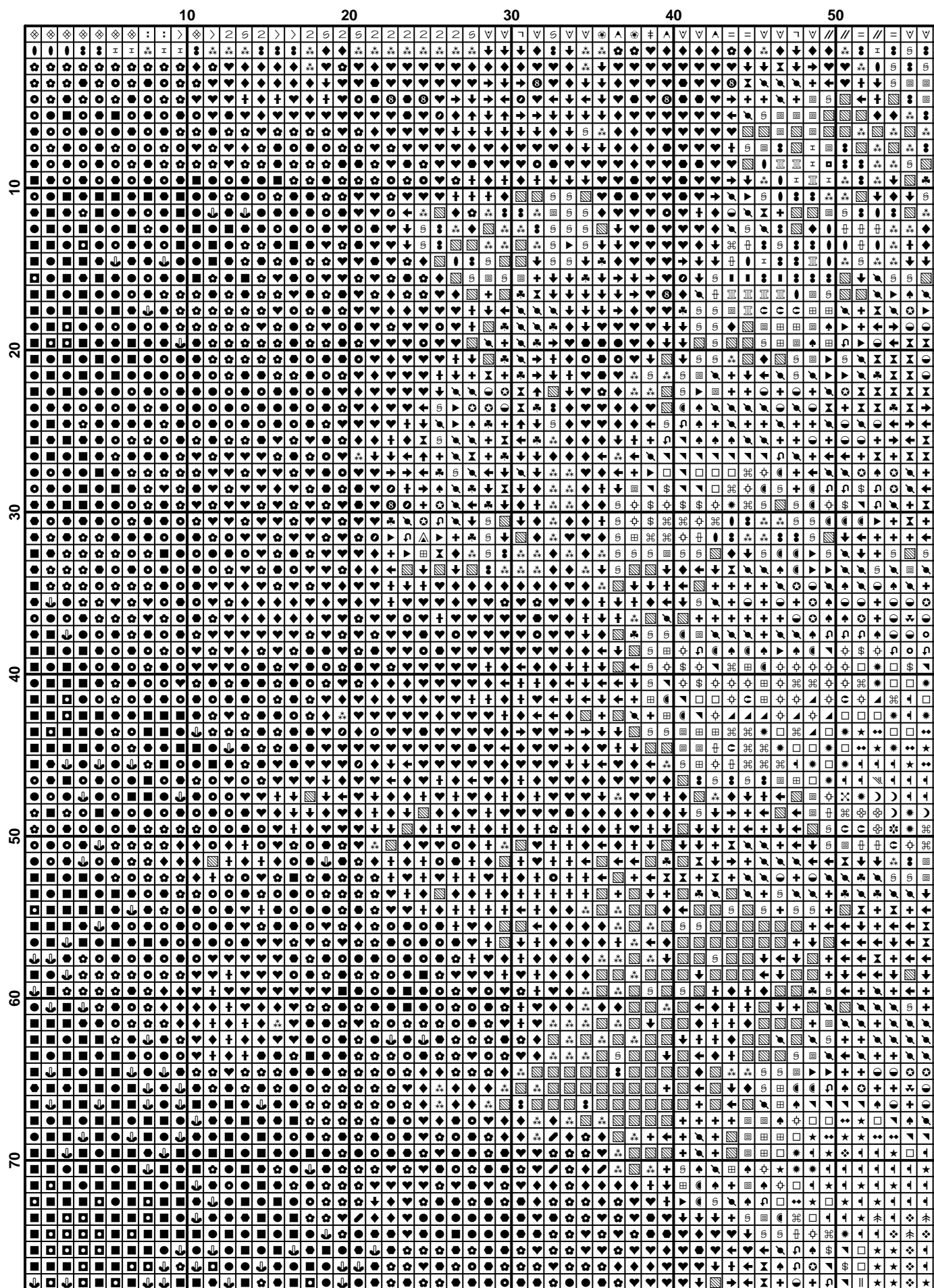
646	Beaver Gray-DK	701	276	655	257	614	241
647	Beaver Gray-MD	566	222	529	208	496	195
648	Beaver Gray-LT	1673	658	1561	614	1464	576
676	Old Gold-LT	21	8	19	7	18	7
677	Old Gold-VY LT	287	113	268	105	251	98
712	Cream	393	154	367	144	344	135
738	Tan-VY LT	924	364	863	340	809	318
739	Tan-UL VY LT	690	271	644	253	604	237
746	Off White	870	343	812	320	762	300
754	Peach-LT	40	15	37	14	35	14
758	Terra Cotta-VY LT	185	72	172	67	161	63
760	Salmon	6	2	6	2	6	2
762	Pearl Gray-VY LT	131	51	122	47	114	44
793	Cornflower Blue-MD	50	19	47	18	44	17
819	Baby Pink-LT	113	44	106	41	99	39
822	Beige Gray-LT	447	176	418	164	392	154
831	Golden Olive-MD	105	41	98	38	92	36
838	Beige Brown-VY DK	495	195	462	182	433	170
839	Beige Brown-DK	2109	830	1969	775	1846	726
840	Beige Brown-MD	296	116	277	109	259	102
841	Beige Brown-LT	355	140	331	130	311	122
842	Beige Brown-VY LT	149	58	139	54	130	51
844	Beaver Brown-UL DK	4497	1770	4198	1652	3935	1549
898	Coffee Brown-VY DK	296	116	276	109	259	102
913	Nile Green-MD	28	11	26	10	25	10
926	Gray Green-MD	336	132	313	123	294	115
927	Gray Green-LT	196	77	183	72	172	68
931	Antique Blue-MD	116	46	109	43	102	40
932	Antique Blue-LT	23	8	21	8	20	7
934	Black Avocado Green	4897	1927	4570	1799	4285	1686
935	Avocado Green-DK	452	177	422	166	395	155
937	Avocado Green-MD	1090	429	1017	400	953	375
938	Coffee Brown-UL DK	5361	2111	5004	1970	4691	1847
945	Tawny	197	77	184	72	173	68
951	Tawny -LT	314	123	293	115	275	108
955	Nile Green-LT	68	26	63	25	59	23
962	Dusty Rose-MD	10	3	9	3	8	3
966	Baby Green-MD	334	131	312	122	293	115
3012	Khaki Green-MD	552	217	515	202	483	190
3021	Brown Gray -VY DK	6938	2732	6476	2549	6071	2390
3022	Brown Gray -MD	662	260	618	243	579	228
3023	Brown Gray -LT	401	158	374	147	350	138
3024	Brown Gray -VY LT	761	299	710	279	665	262
3031	Mocha Brown-VY DK	3504	1380	3271	1288	3066	1207
3032	Mocha Brown-MD	269	105	251	98	236	92
3041	Antique Violet-MD	128	50	119	47	112	44
3042	Antique Violet-LT	64	24	59	23	56	21
3046	Yellow Beige-MD	200	78	187	73	175	69
3052	Green Gray-MD	663	261	619	244	581	228
3053	Green Gray	342	134	319	125	299	118
3064	Desert Sand	187	73	175	68	164	64
3363	Pine Green-MD	1153	453	1076	423	1009	397
3371	Black Brown	6444	2537	6014	2368	5639	2220
3685	Mauve-DK	18	7	17	7	16	6
3721	Shell Pink-DK	51	20	47	19	44	17
3722	Shell Pink-MD	62	24	58	23	55	21
3726	Antique Mauve-DK	82	32	77	30	72	28
3743	Antique Violet-VY LT	118	46	110	43	104	41
3753	Antique Blue-UL VY LT	17	6	16	6	15	6

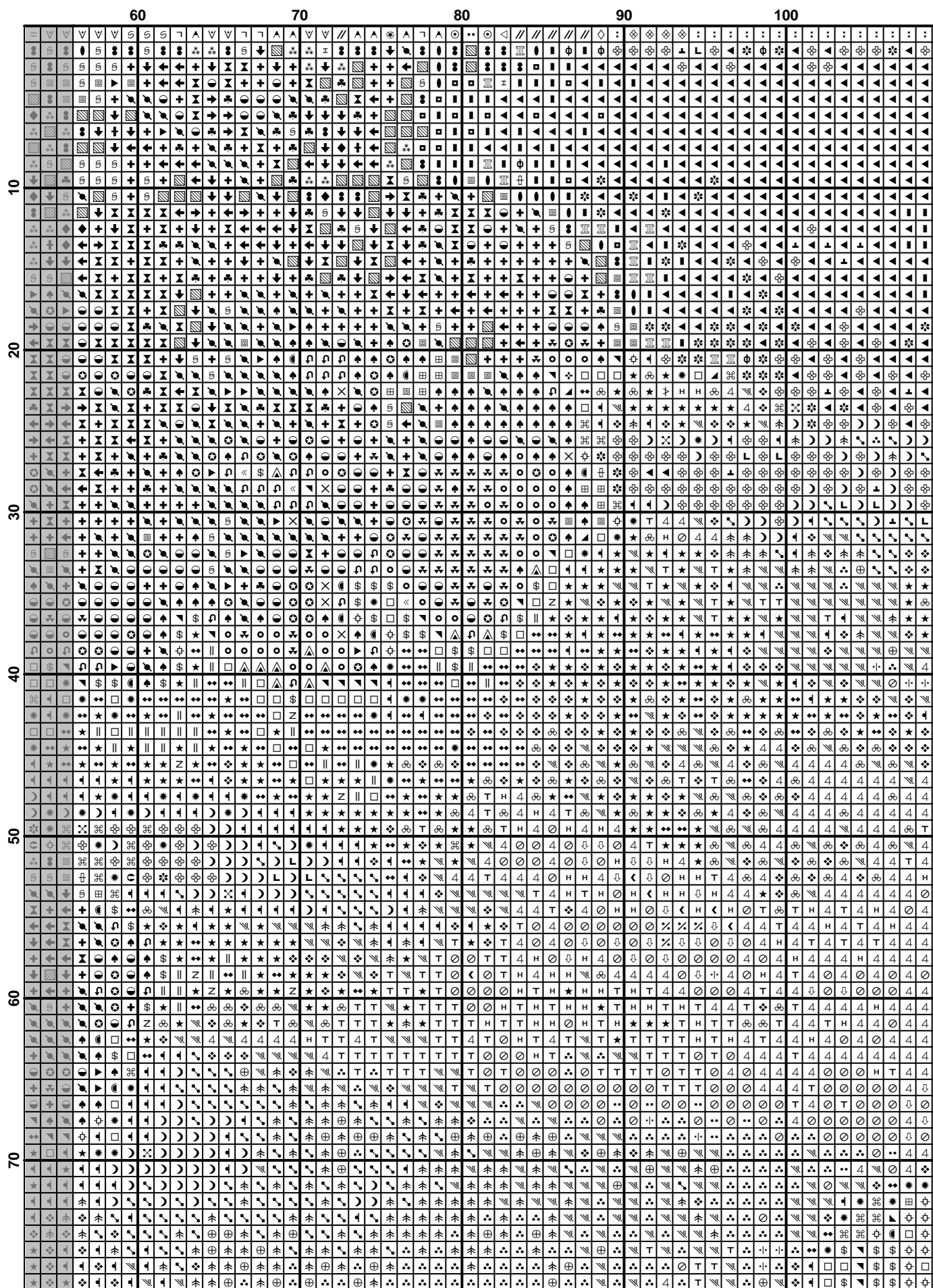
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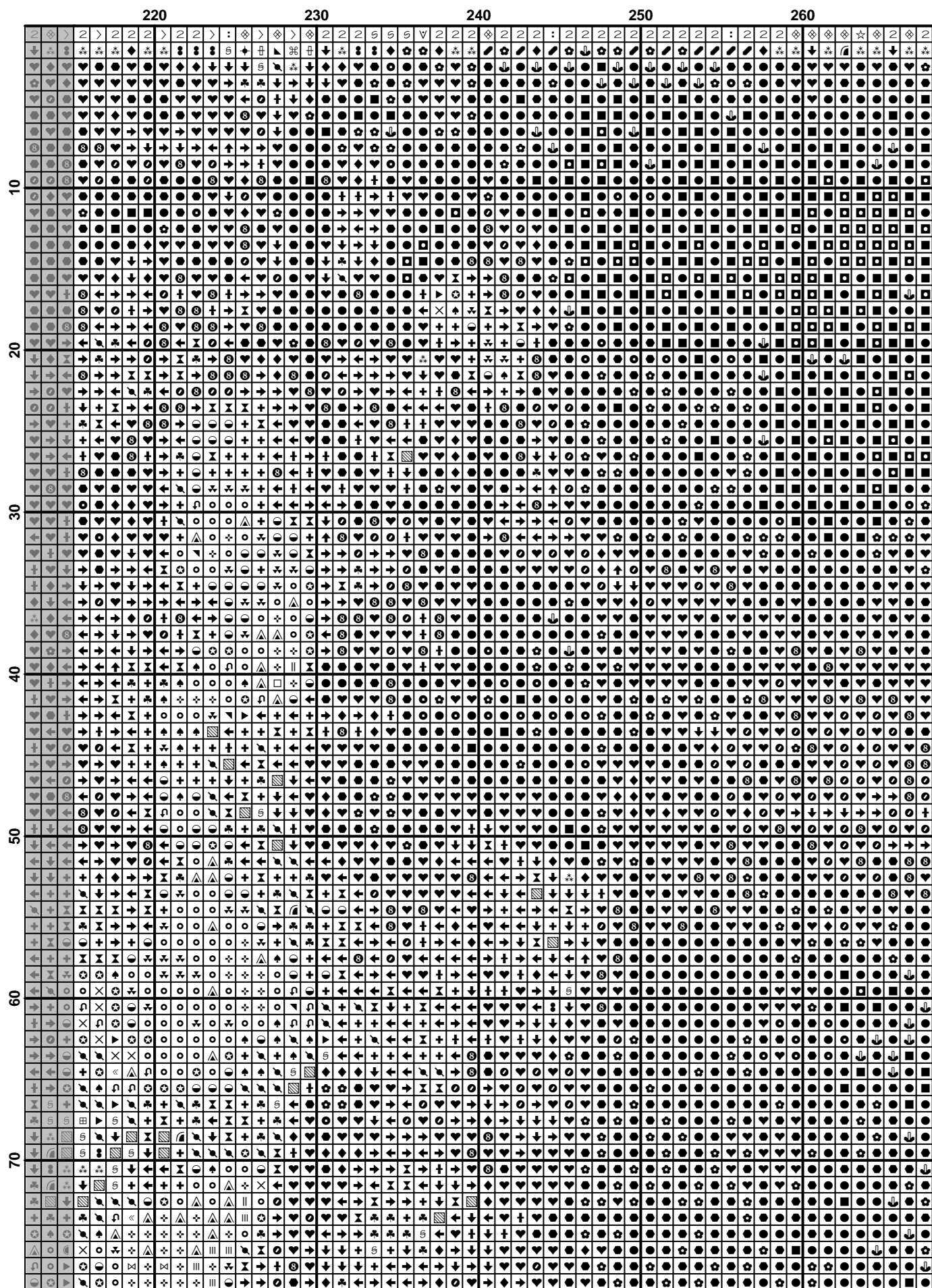
3768	Gray Green-DK	138	54	129	50	121	47
3770	Tawny -VY LT	360	141	336	132	315	124
3772	Desert Sand-VY DK	288	113	269	106	252	99
3778	Terra Cotta-LT	25	10	23	9	22	8
3779	Terra Cotta-UL VY LT	71	28	66	26	62	24
3781	Mocha Brown-DK	1195	470	1115	439	1046	411
3782	Mocha Brown-LT	624	246	583	229	546	215
3787	Brown Gray -DK	2517	991	2349	925	2202	867
3790	Beige Gray -UL DK	662	260	618	243	579	228
3799	Pewter Gray -VY DK	7583	2985	7077	2786	6635	2612
3802	Antique Mauve-VY DK	123	48	115	45	107	42
3817	Celadon Green-LT	299	118	279	110	262	103
3822	Straw -LT	8	3	7	2	7	2
3823	Yellow -UL Pale	458	180	428	168	401	158
3828	Hazelnut Brown	73	28	68	26	64	25
3855	Autumn Gold-LT	102	40	95	37	89	35
3859	Rosewood-LT	89	35	83	32	78	30
3860	Cocoa	532	209	496	195	465	183
3861	Cocoa-LT	383	150	358	140	335	132
3862	Mocha Beige-DK	340	134	317	125	298	117
3863	Mocha Beige-MD	420	165	392	154	367	145
3864	Mocha Beige-LT	654	257	610	240	572	225
3865	Winter White	62	24	58	23	55	21
3866	Mocha Brown-UL VY LT	1092	429	1019	401	956	376
Ecru	Ecru	538	212	502	197	471	185

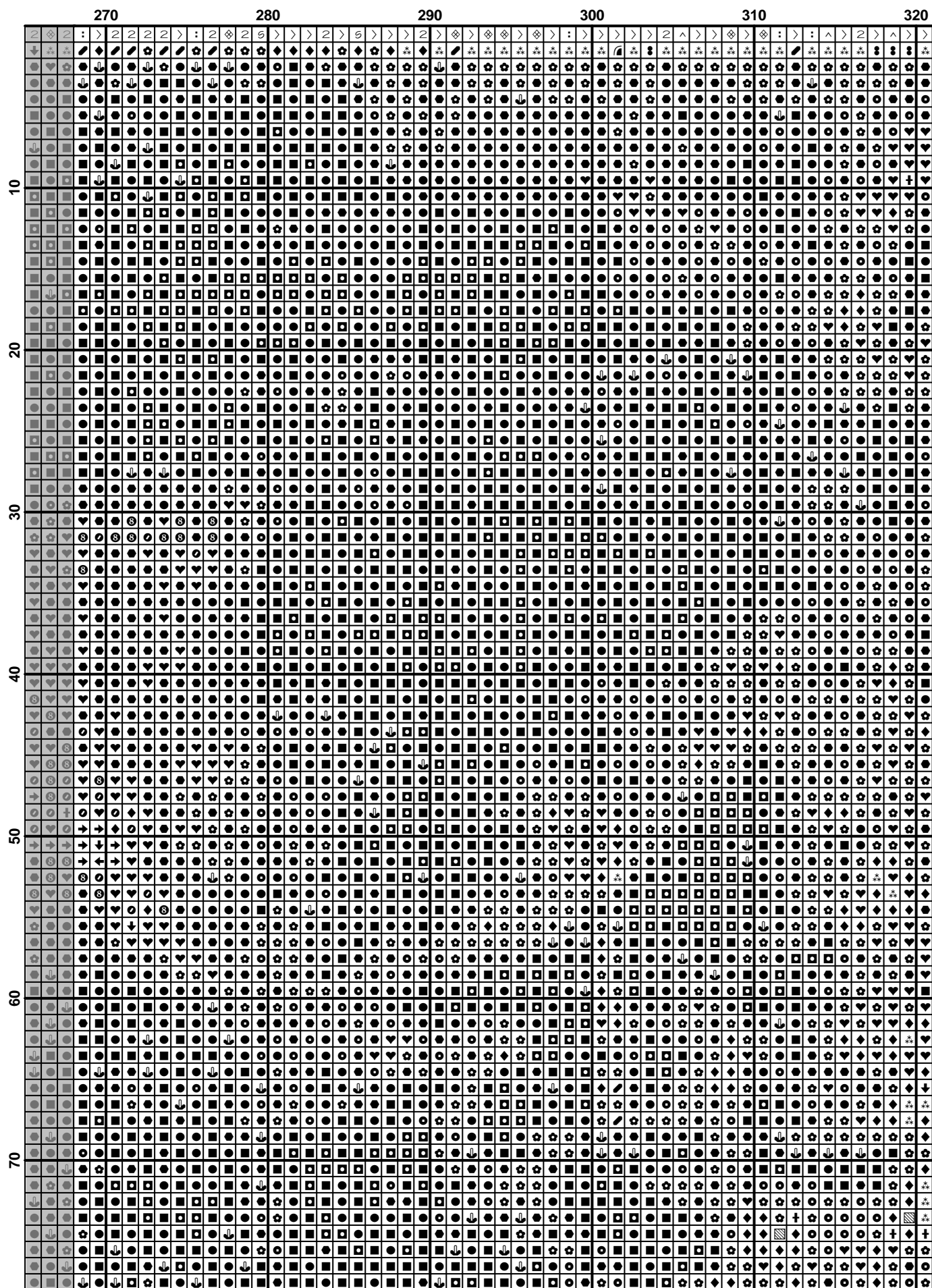


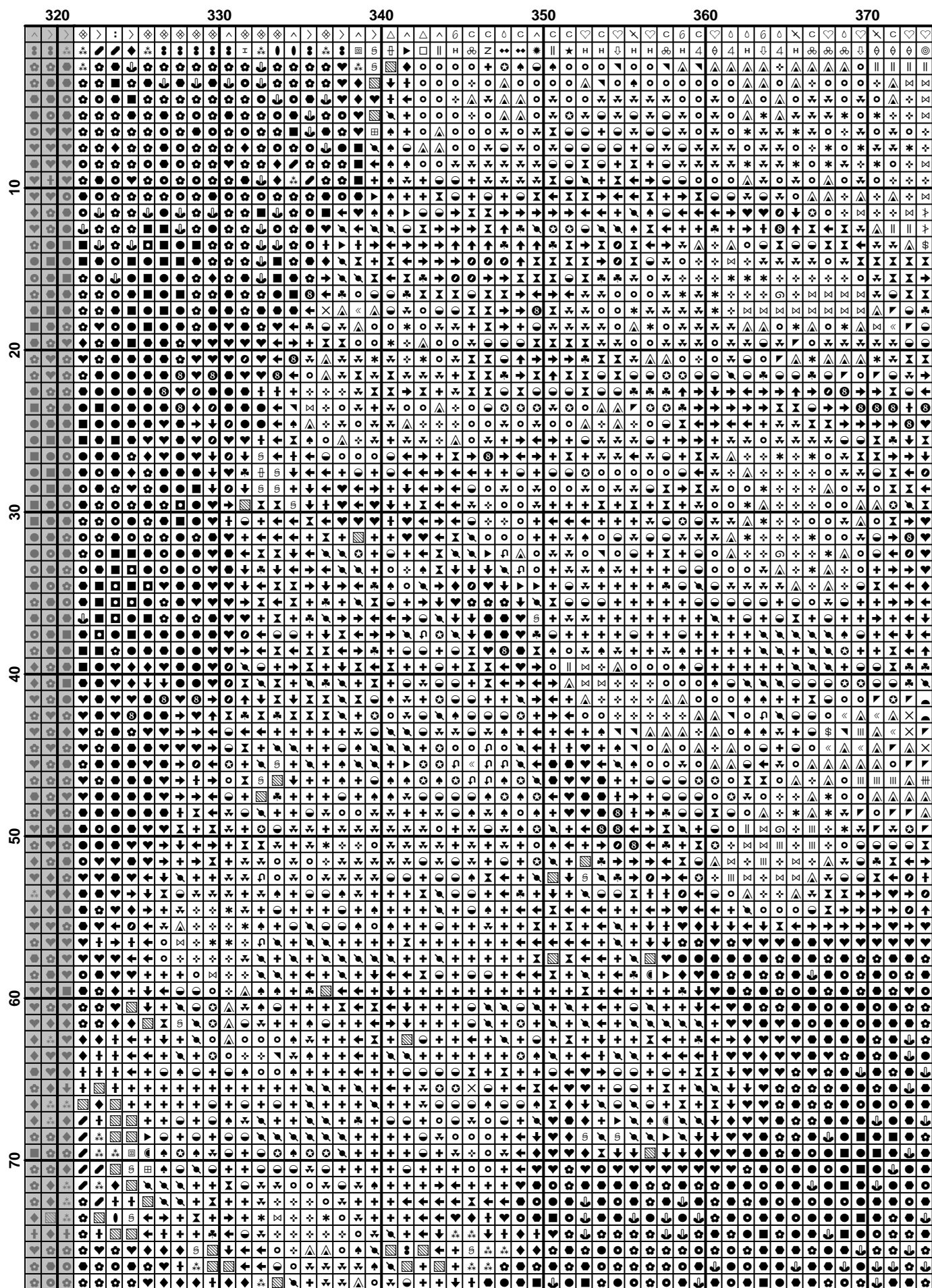


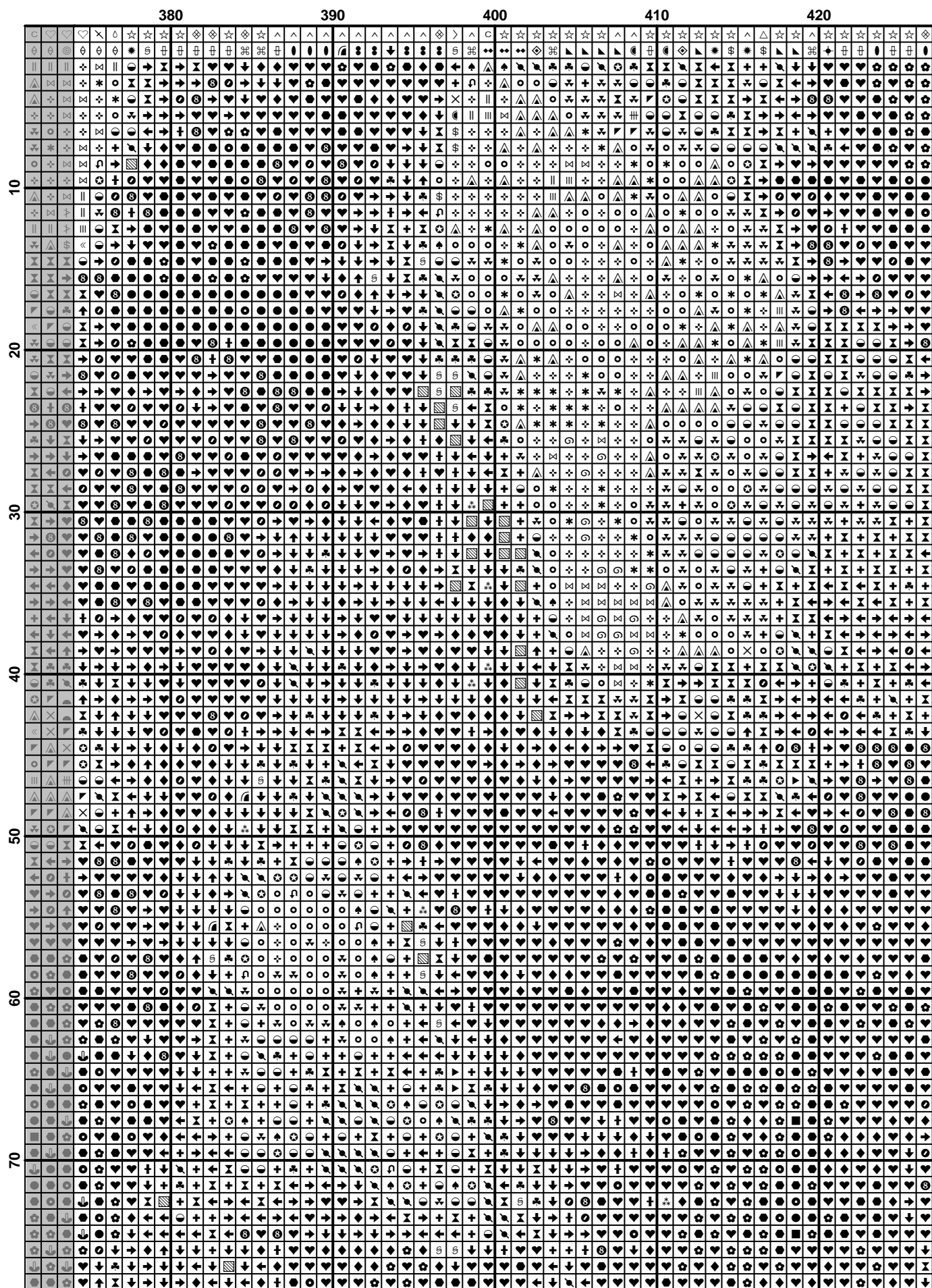
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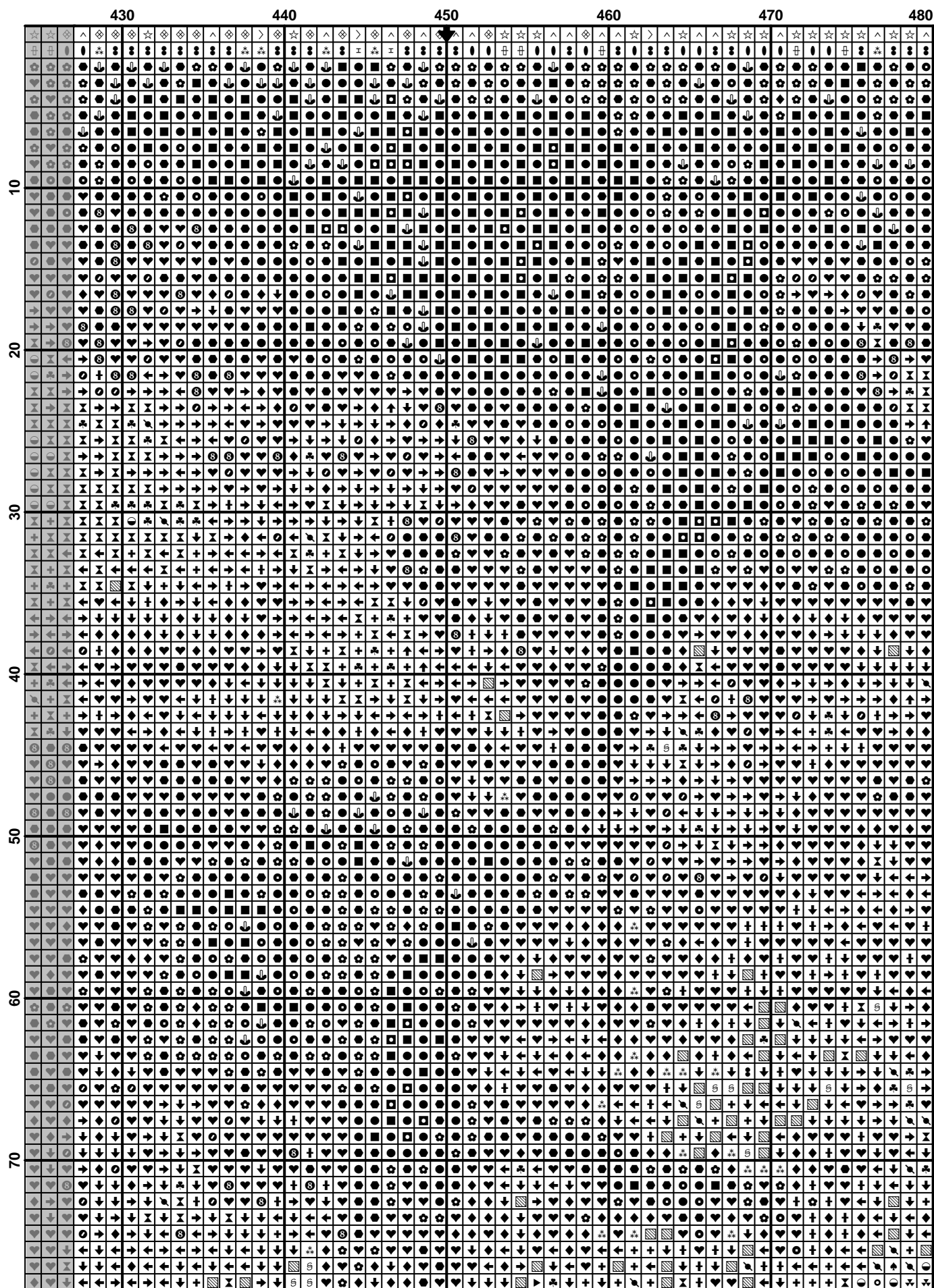
	160	170	180	190	200	210
10	♠	♠	♠	♠	♠	♠
20	♠	♠	♠	♠	♠	♠
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60	♠	♠	♠	♠	♠	♠
70	♠	♠	♠	♠	♠	♠



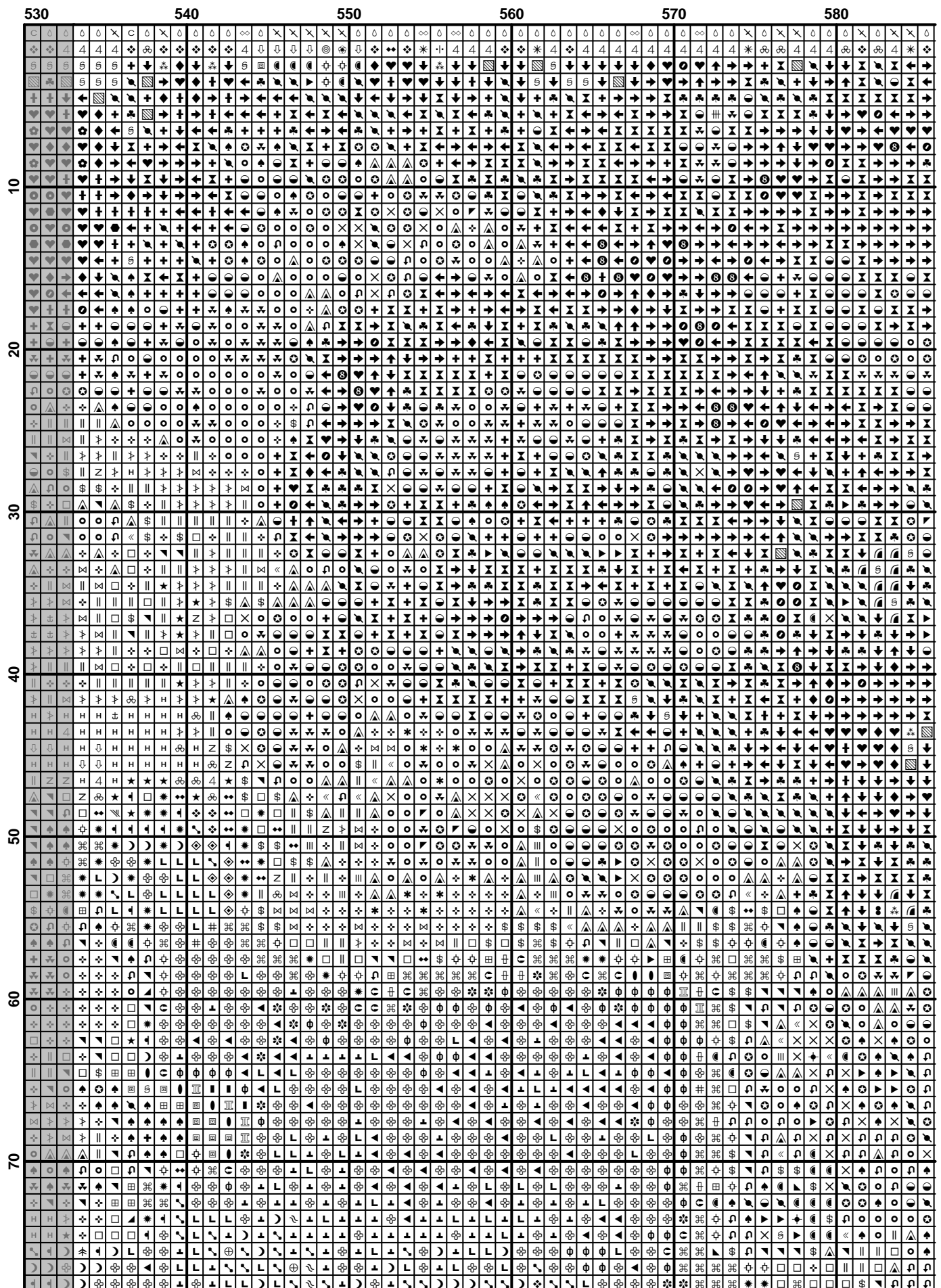




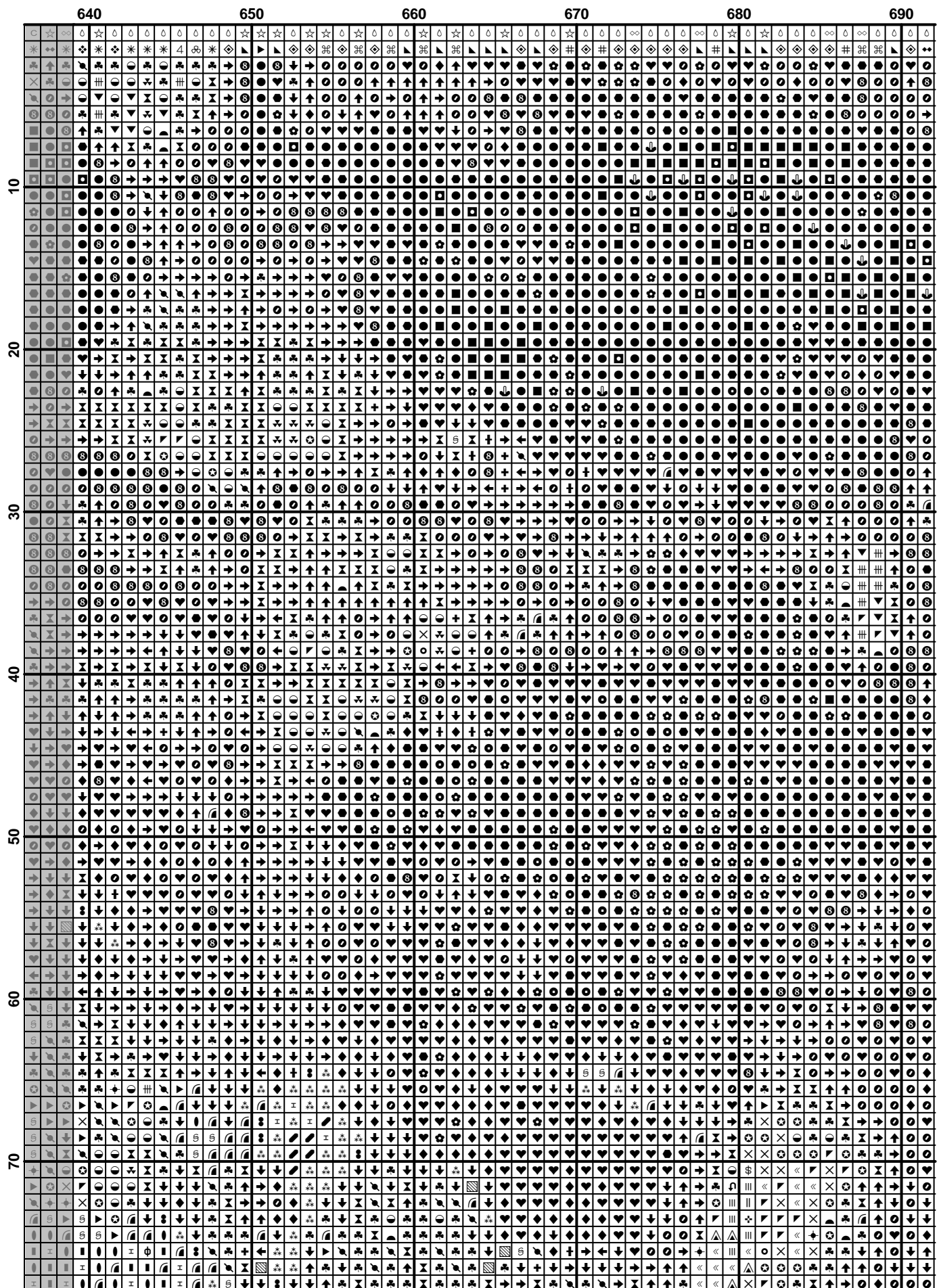




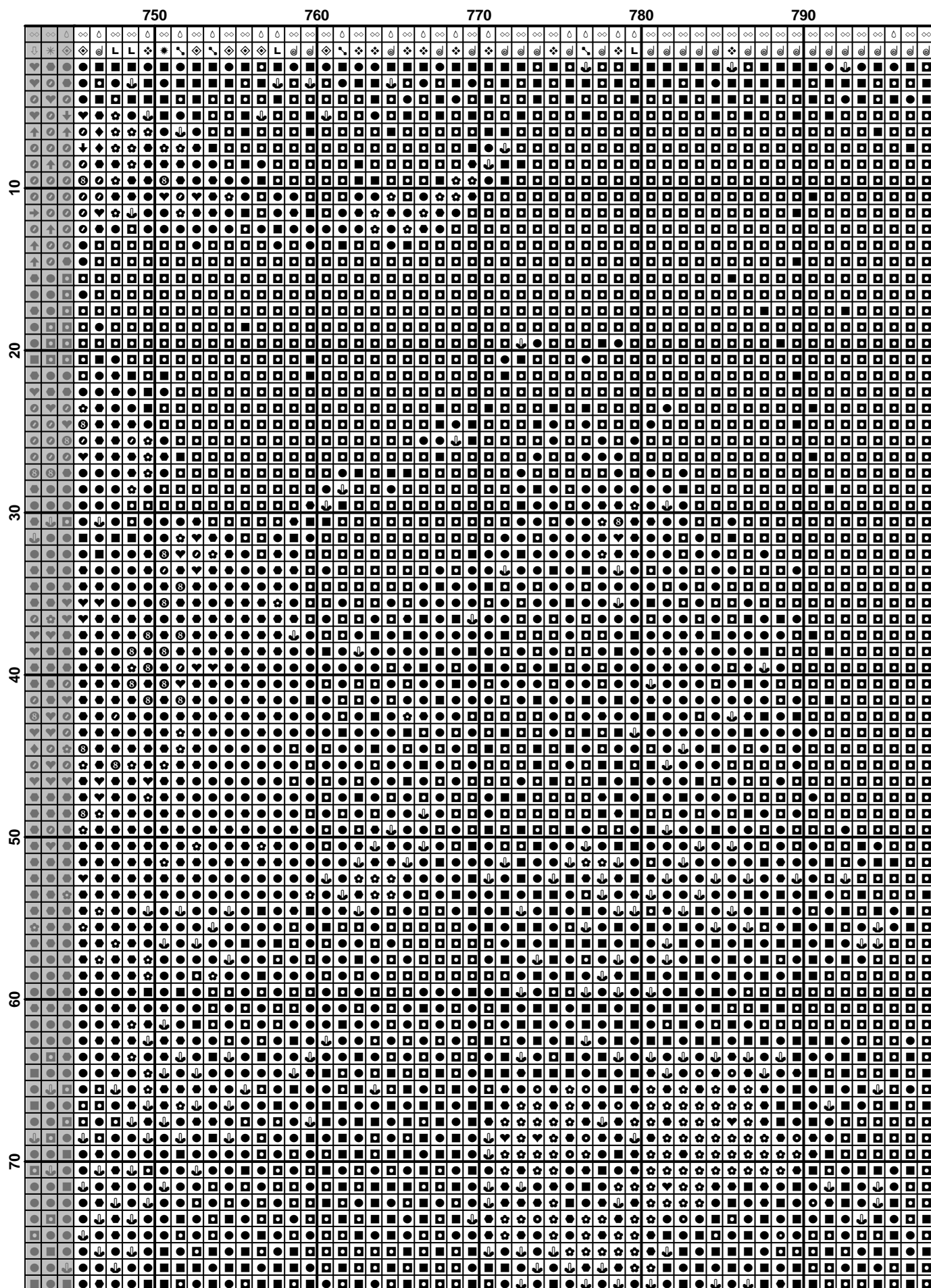
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99	☆	☆	☆	☆	☆	☆
100	☆	☆	☆	☆	☆	☆

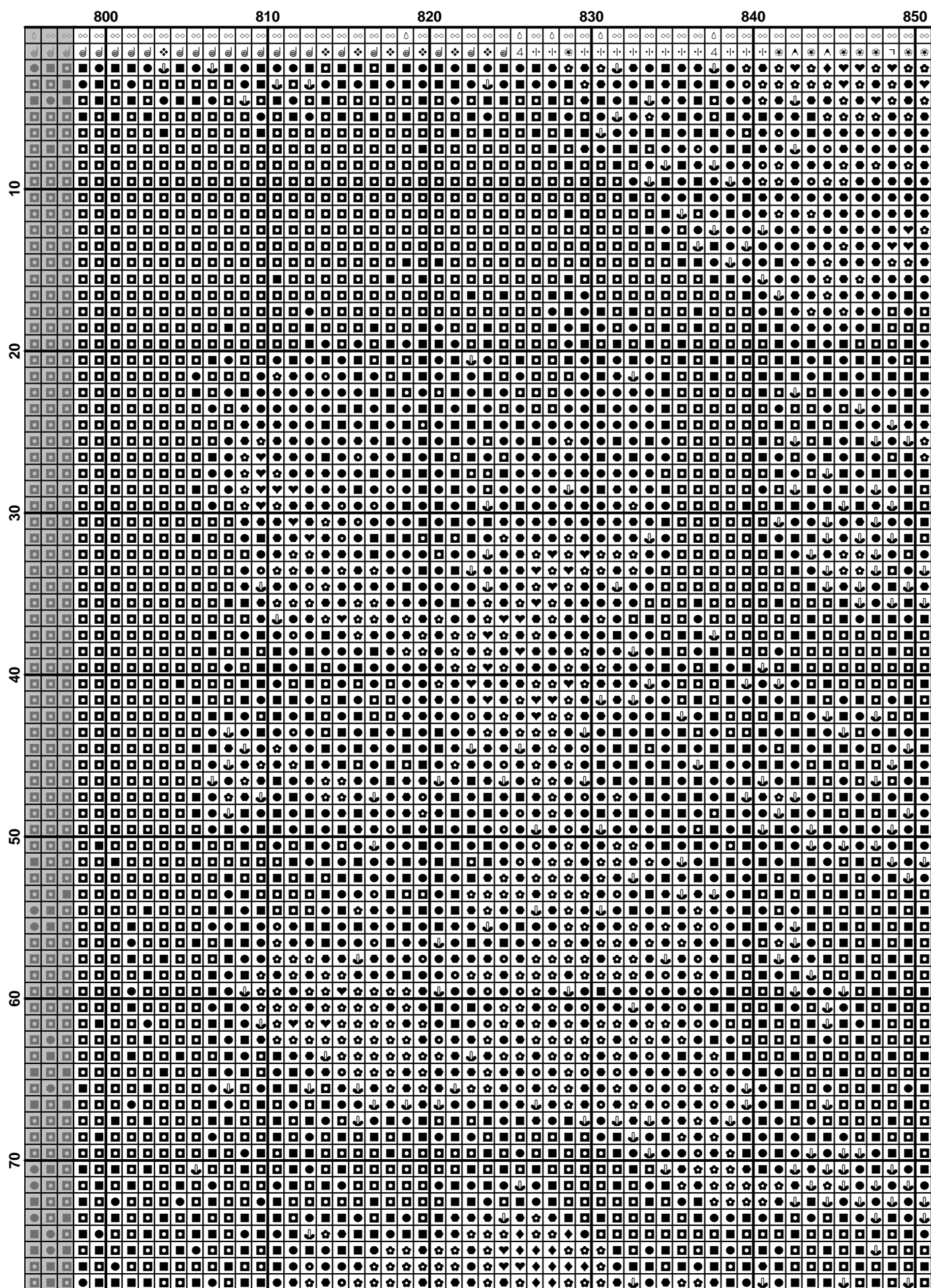


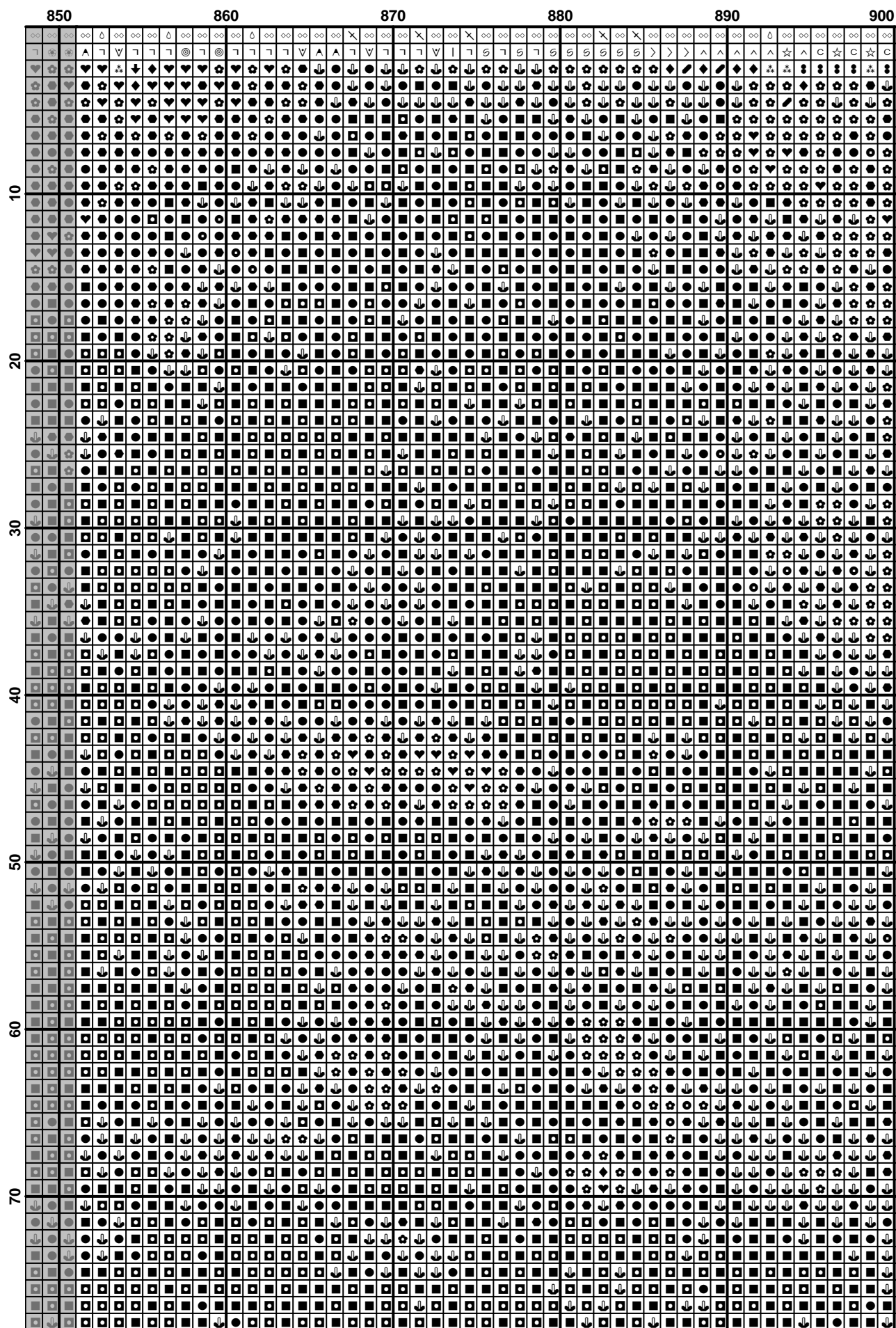
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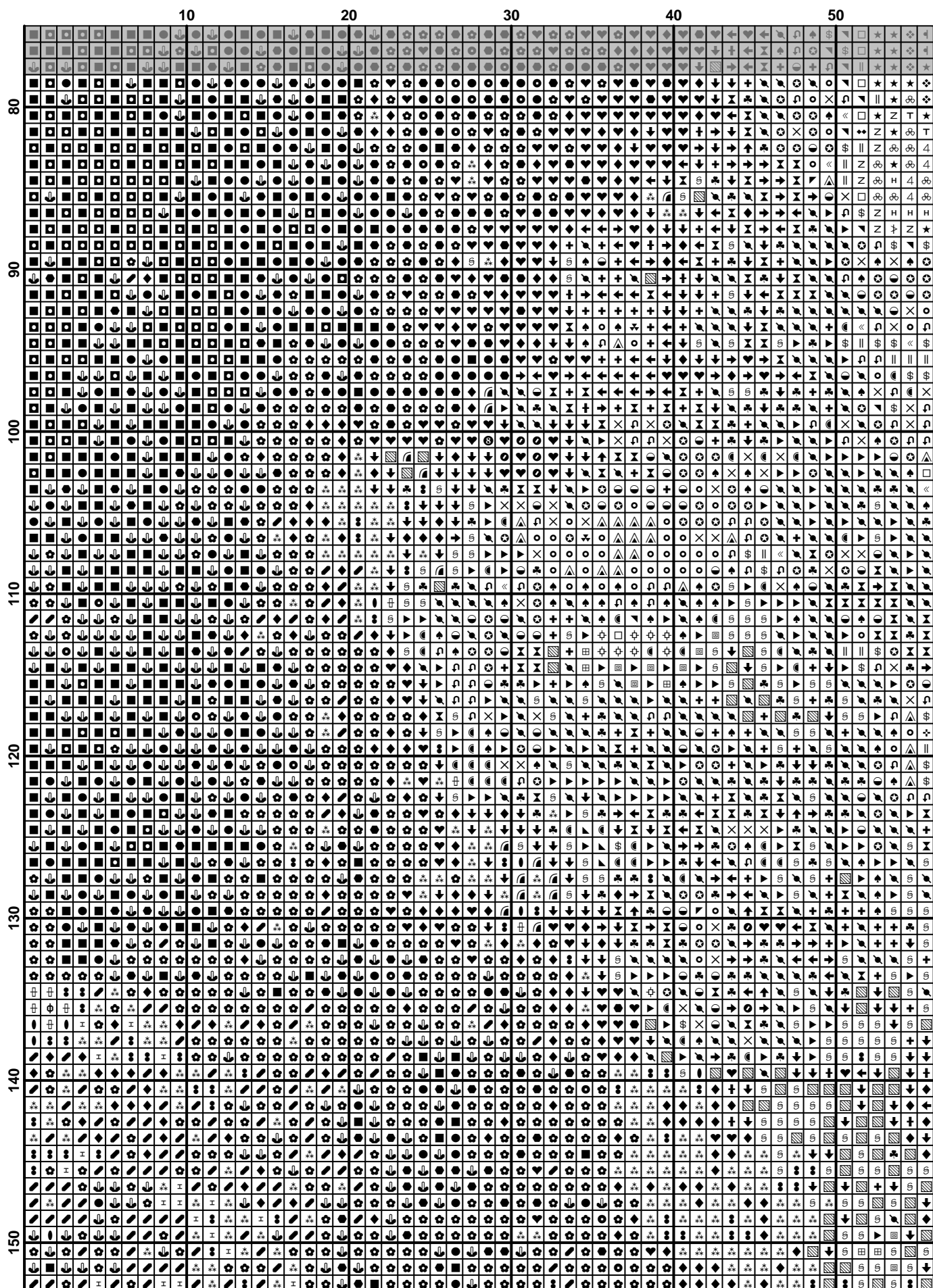


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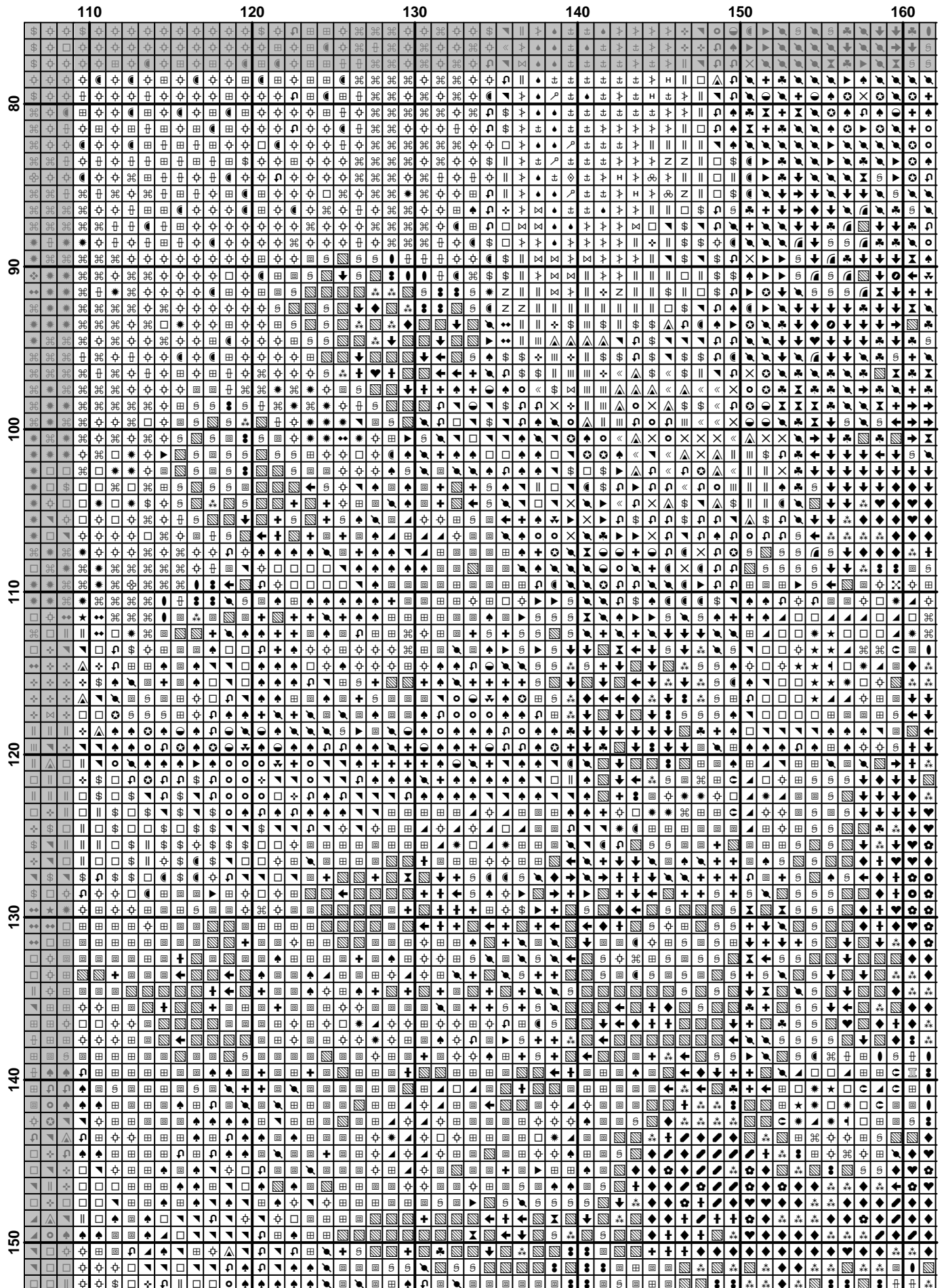


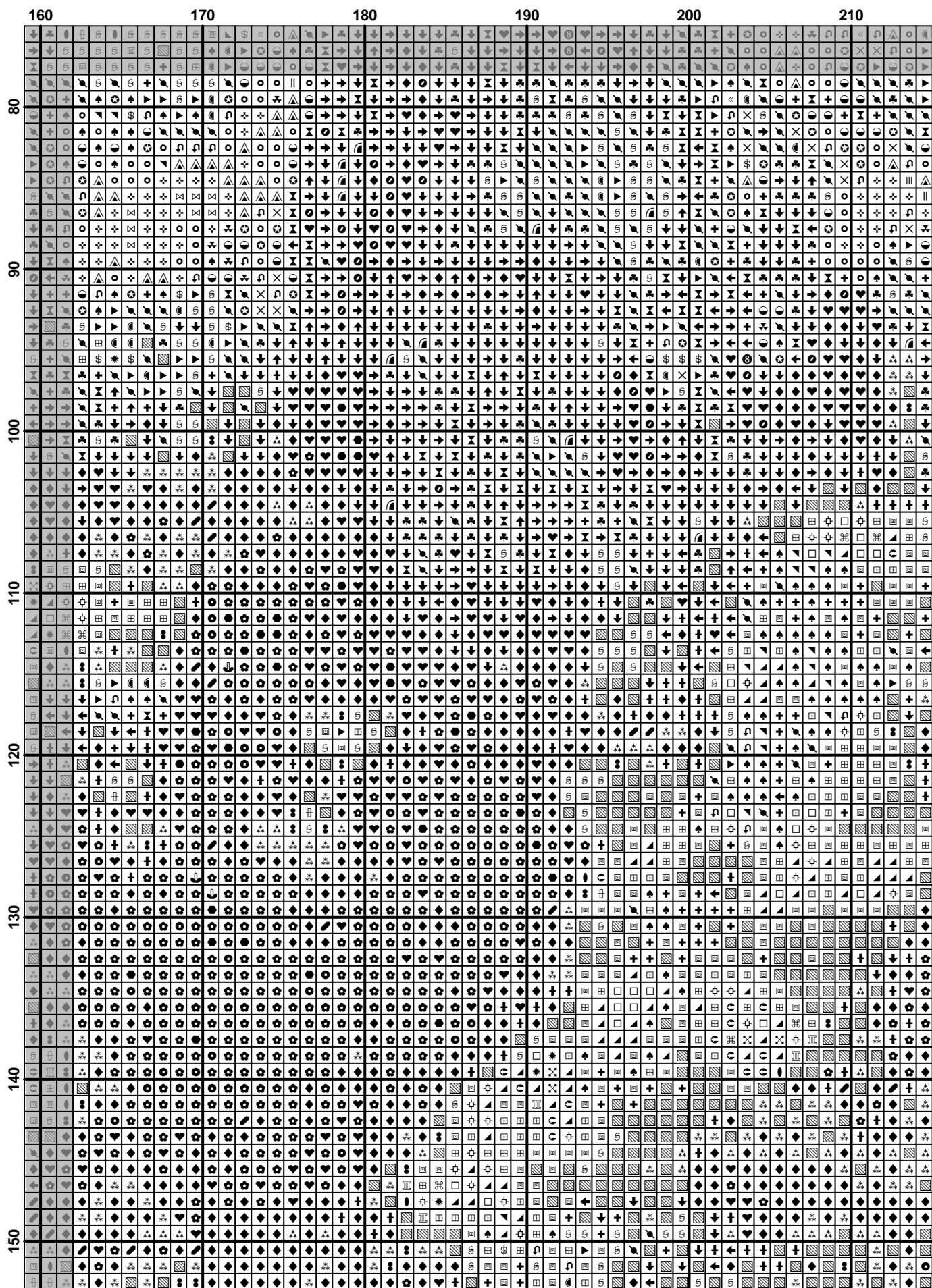


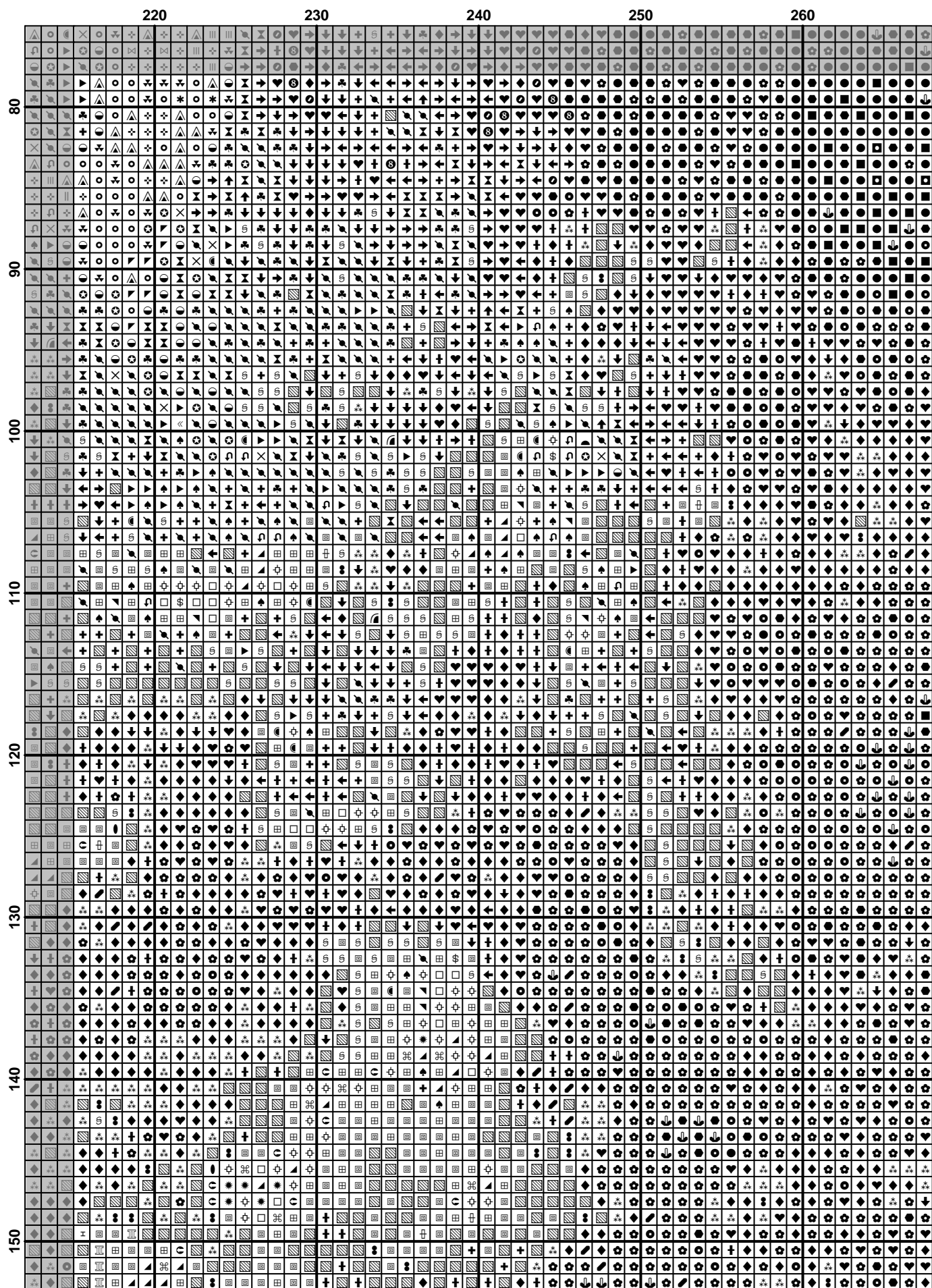


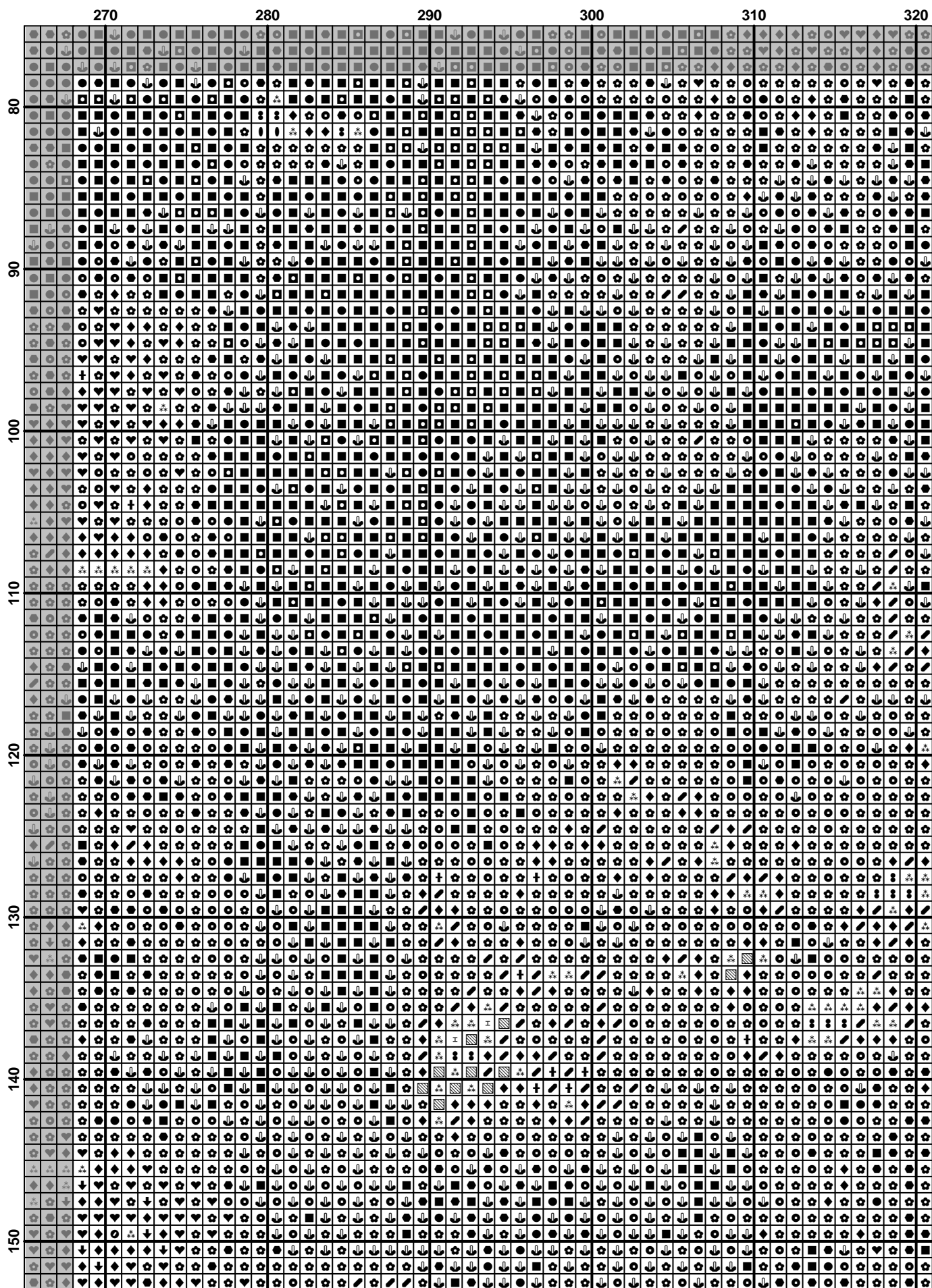


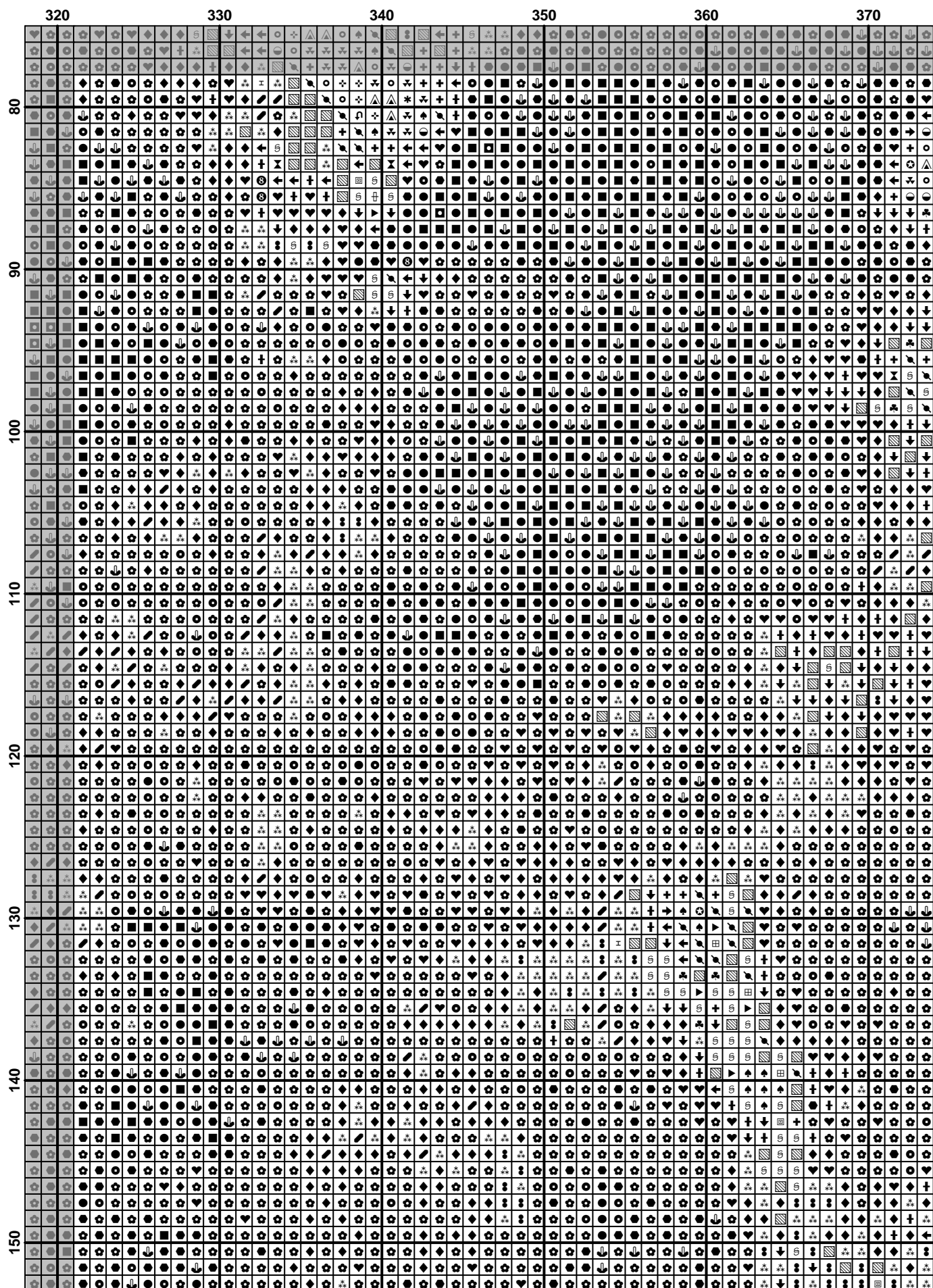
$$(36) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

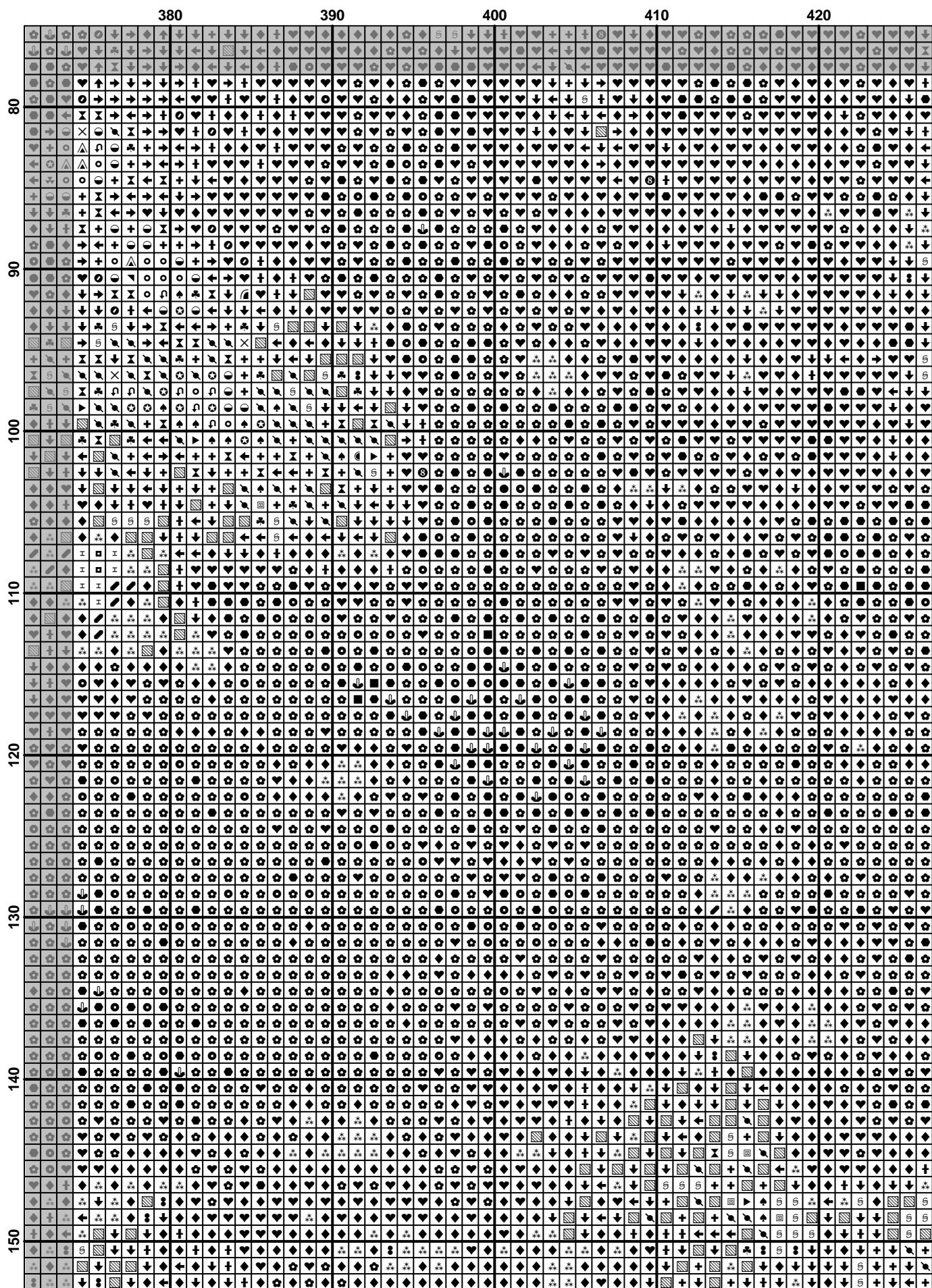


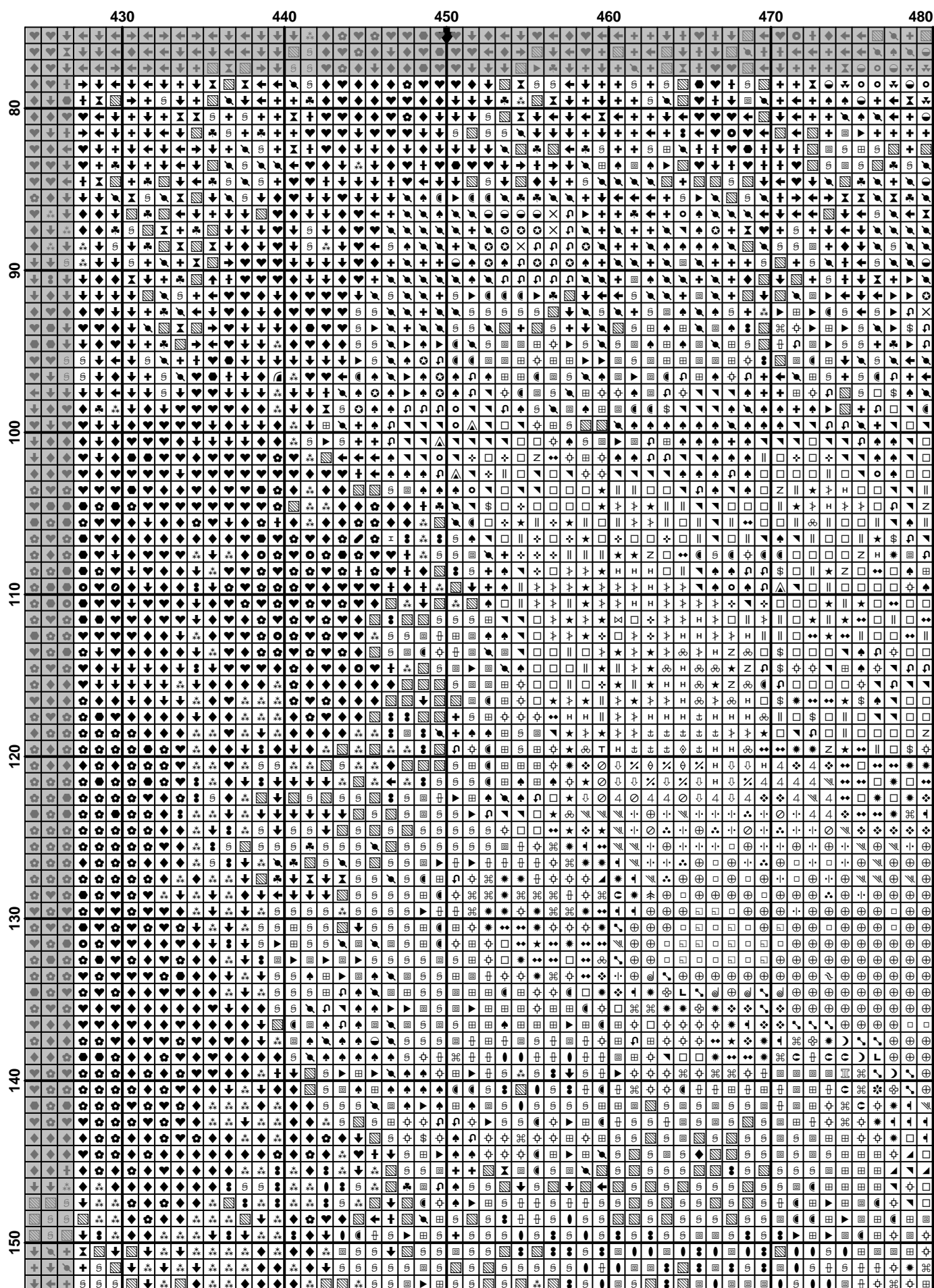


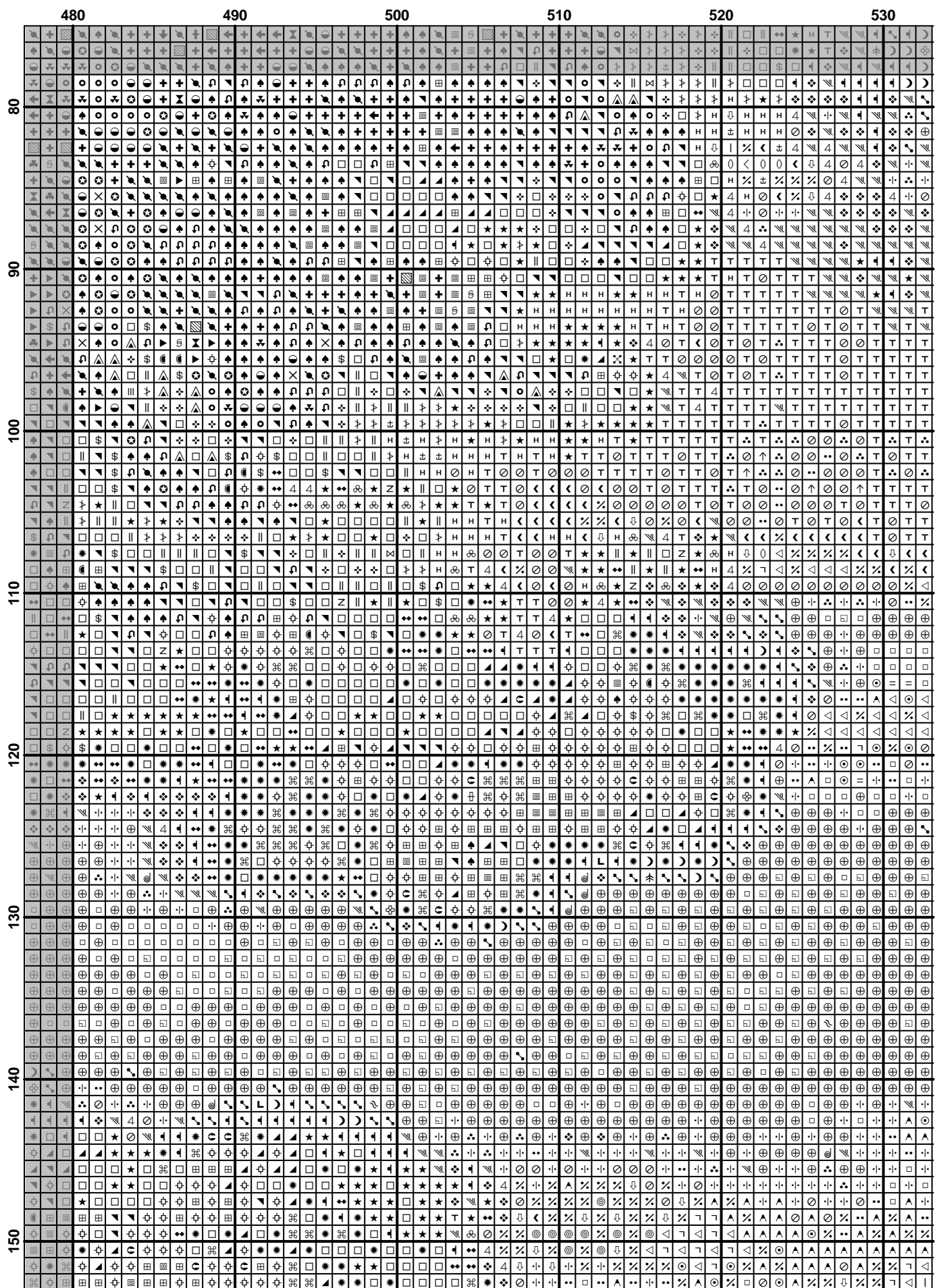




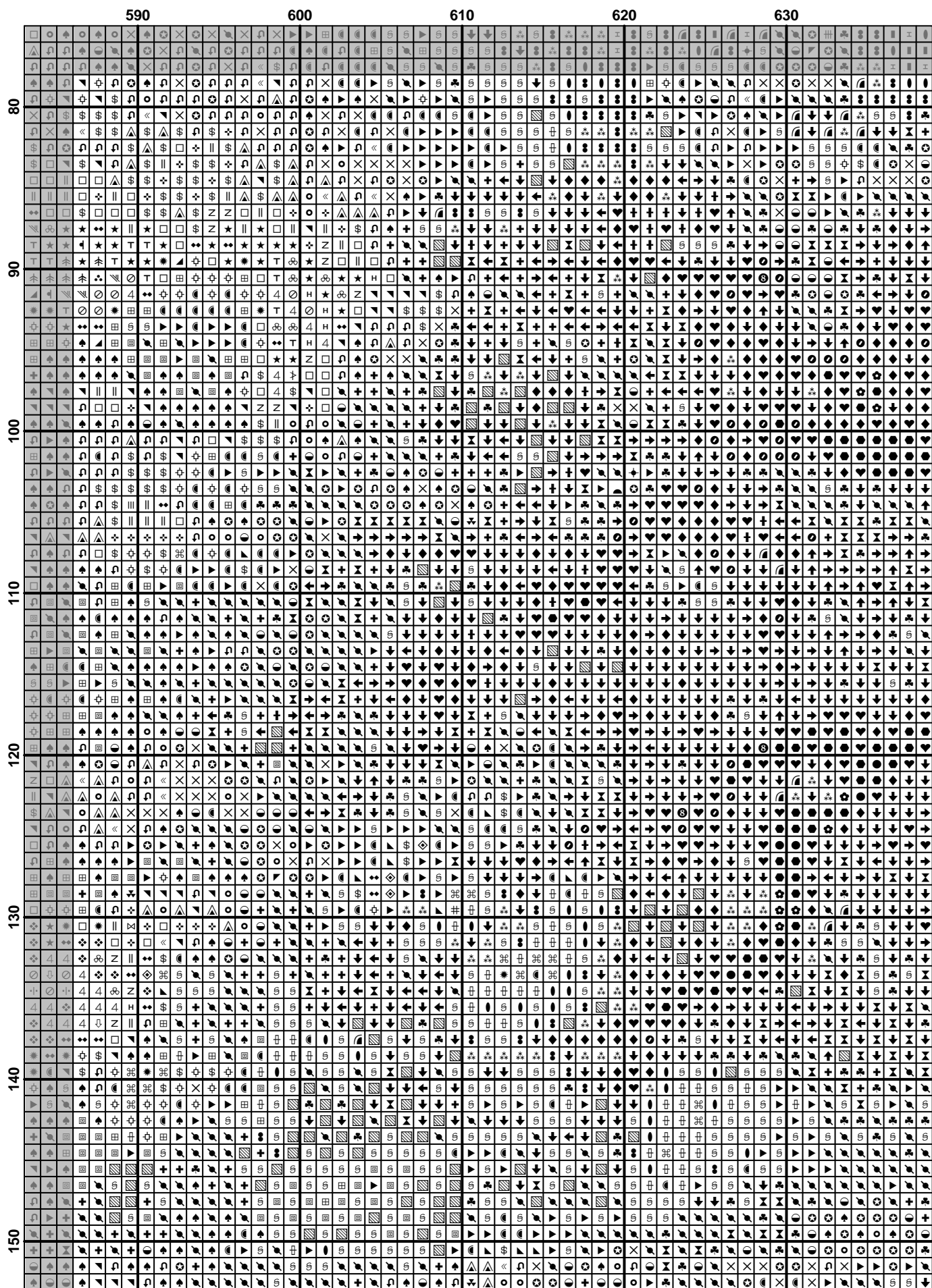


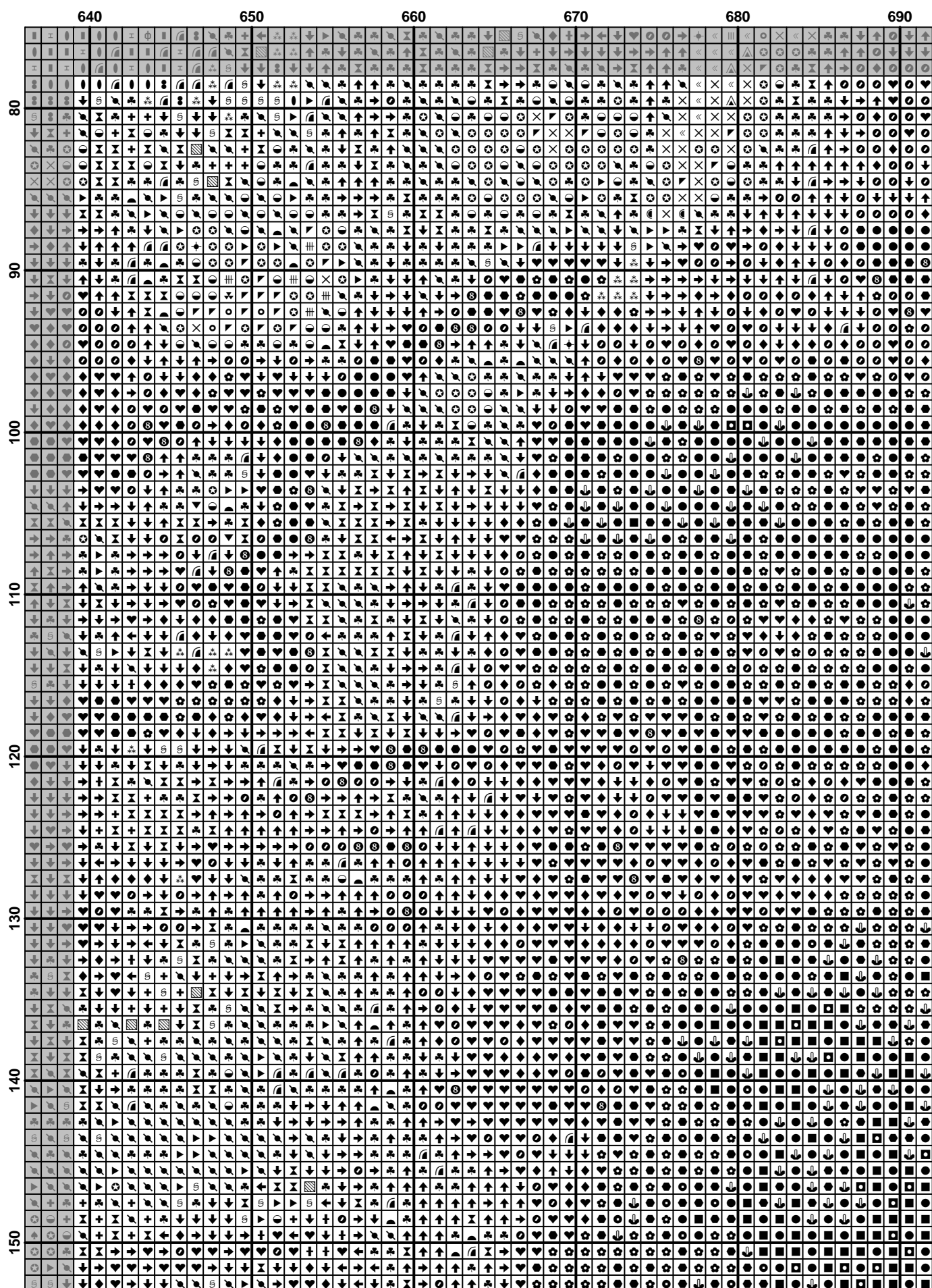


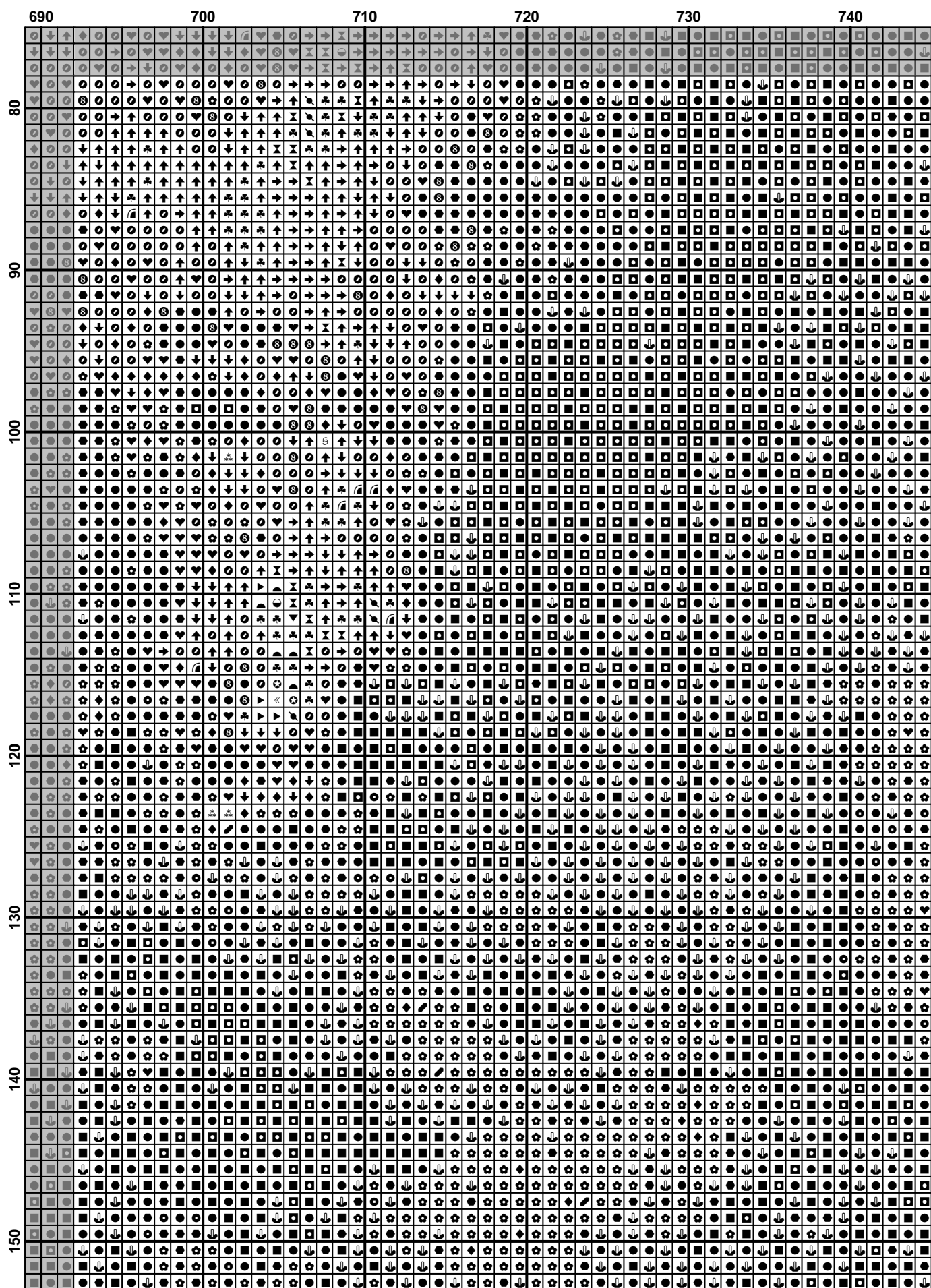


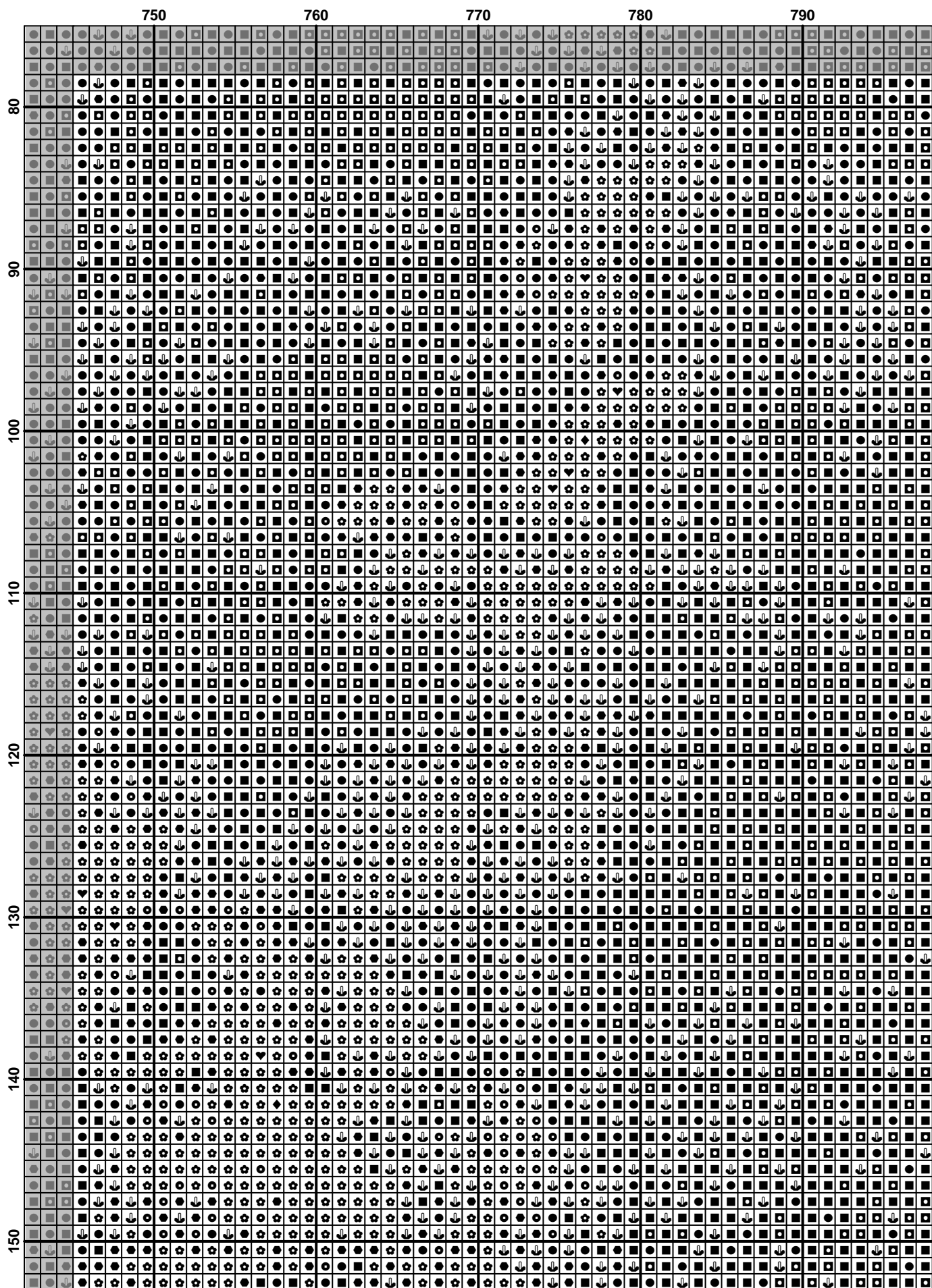


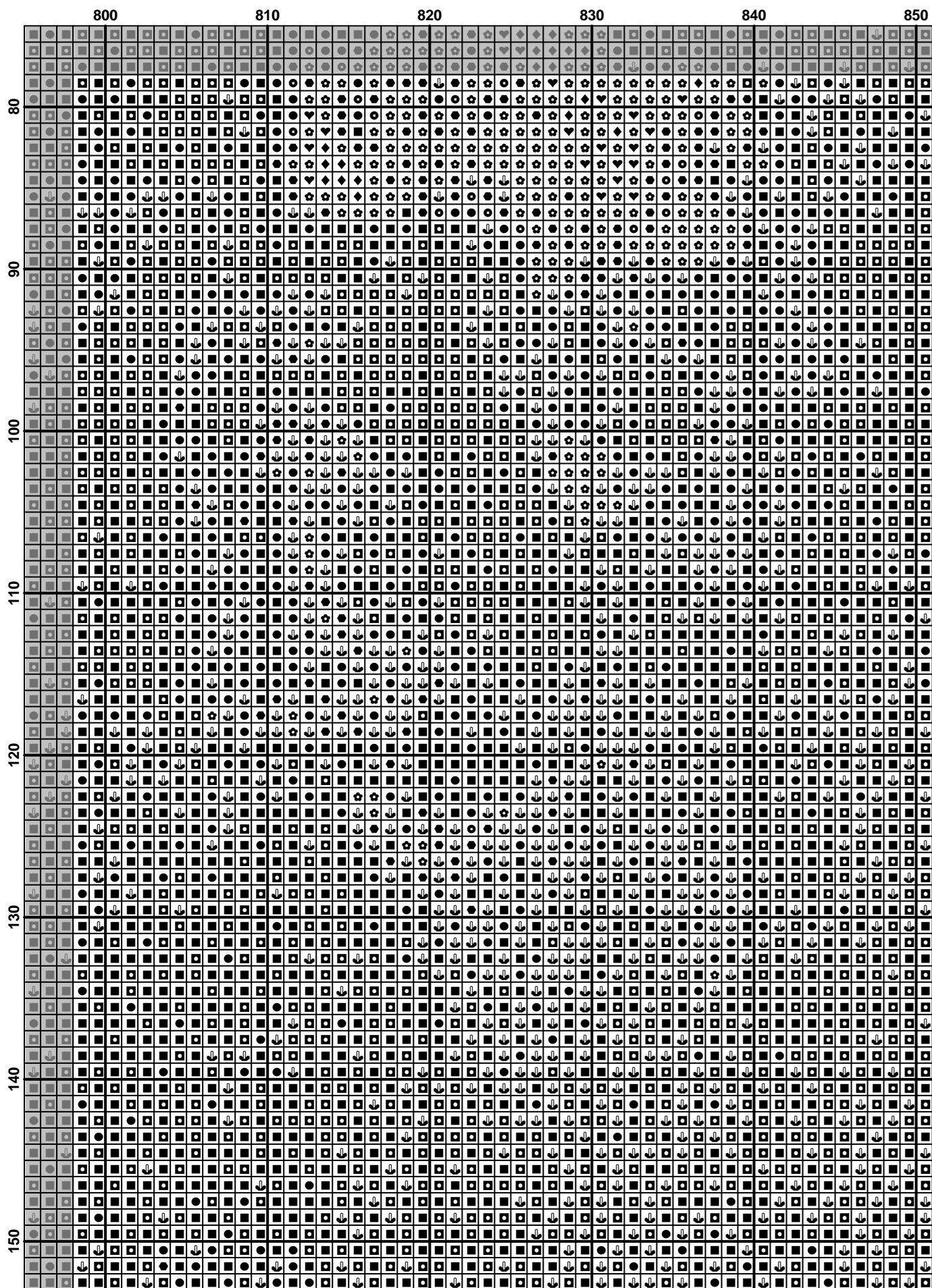
	530	540	550	560	570	580
80	♠	♠	♠	♠	♠	♠
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100	♠	♠	♠	♠	♠	♠
110	♠	♠	♠	♠	♠	♠
120	♠	♠	♠	♠	♠	♠
130	♠	♠	♠	♠	♠	♠
140	♠	♠	♠	♠	♠	♠
150	♠	♠	♠	♠	♠	♠

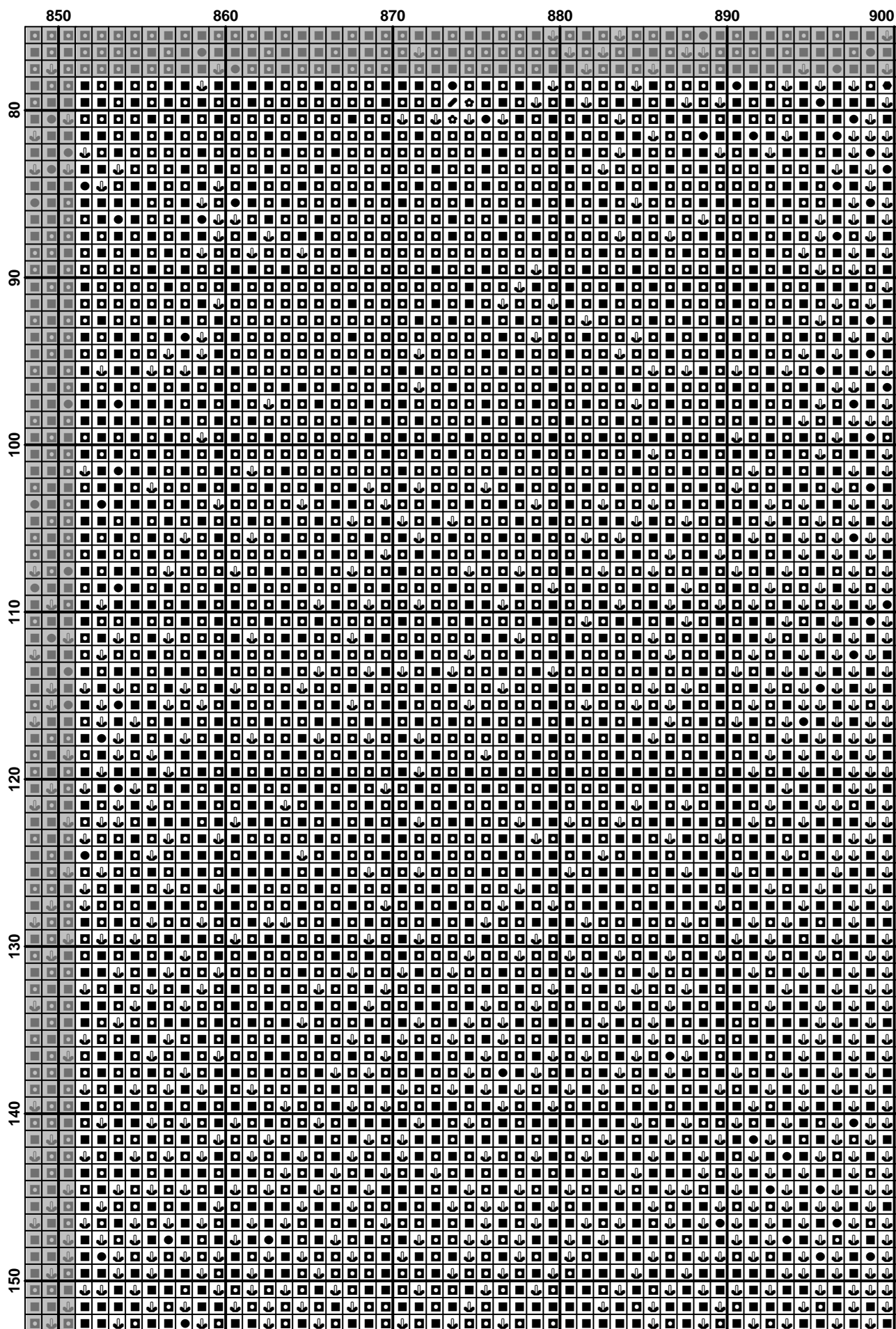


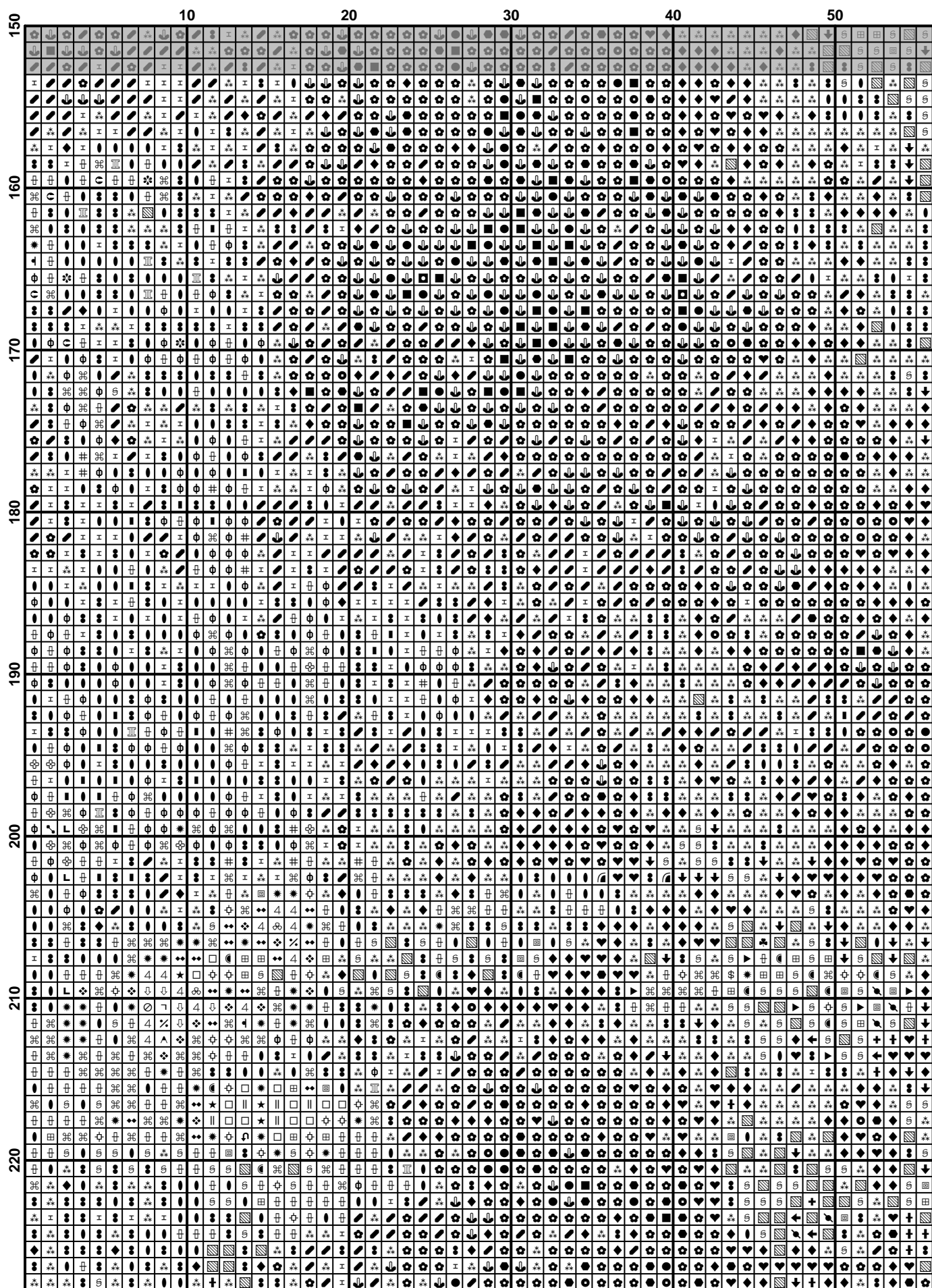


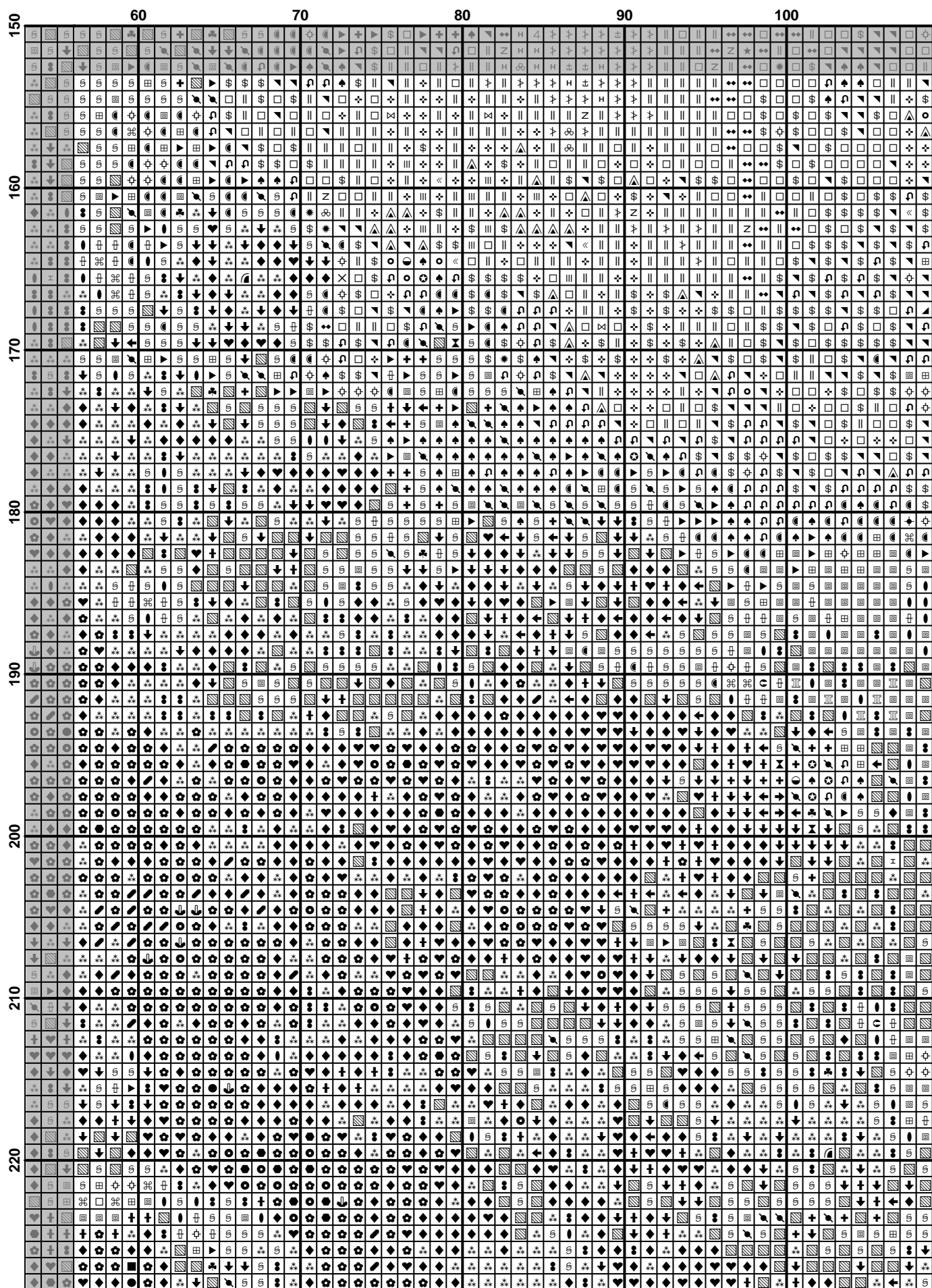


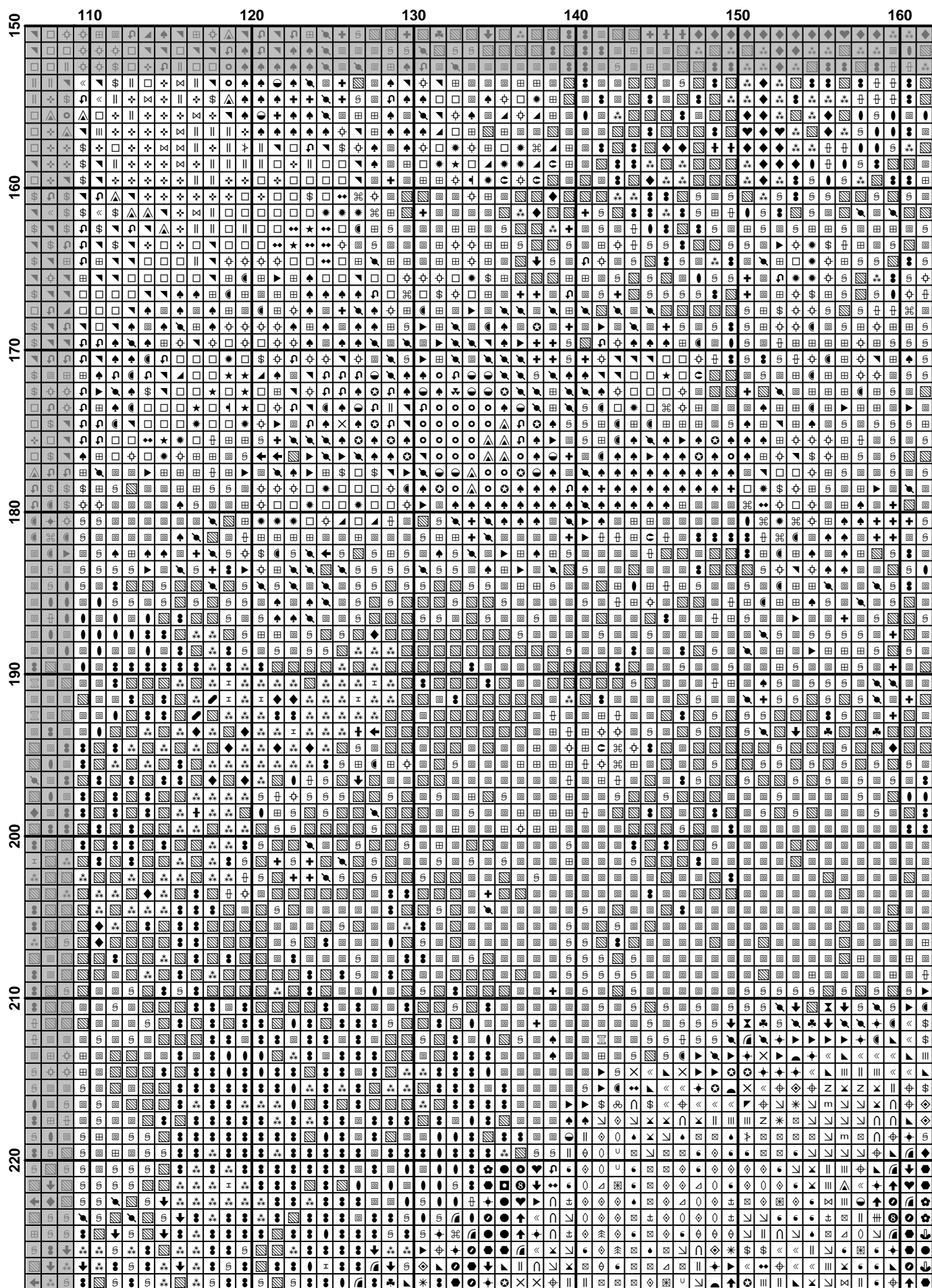


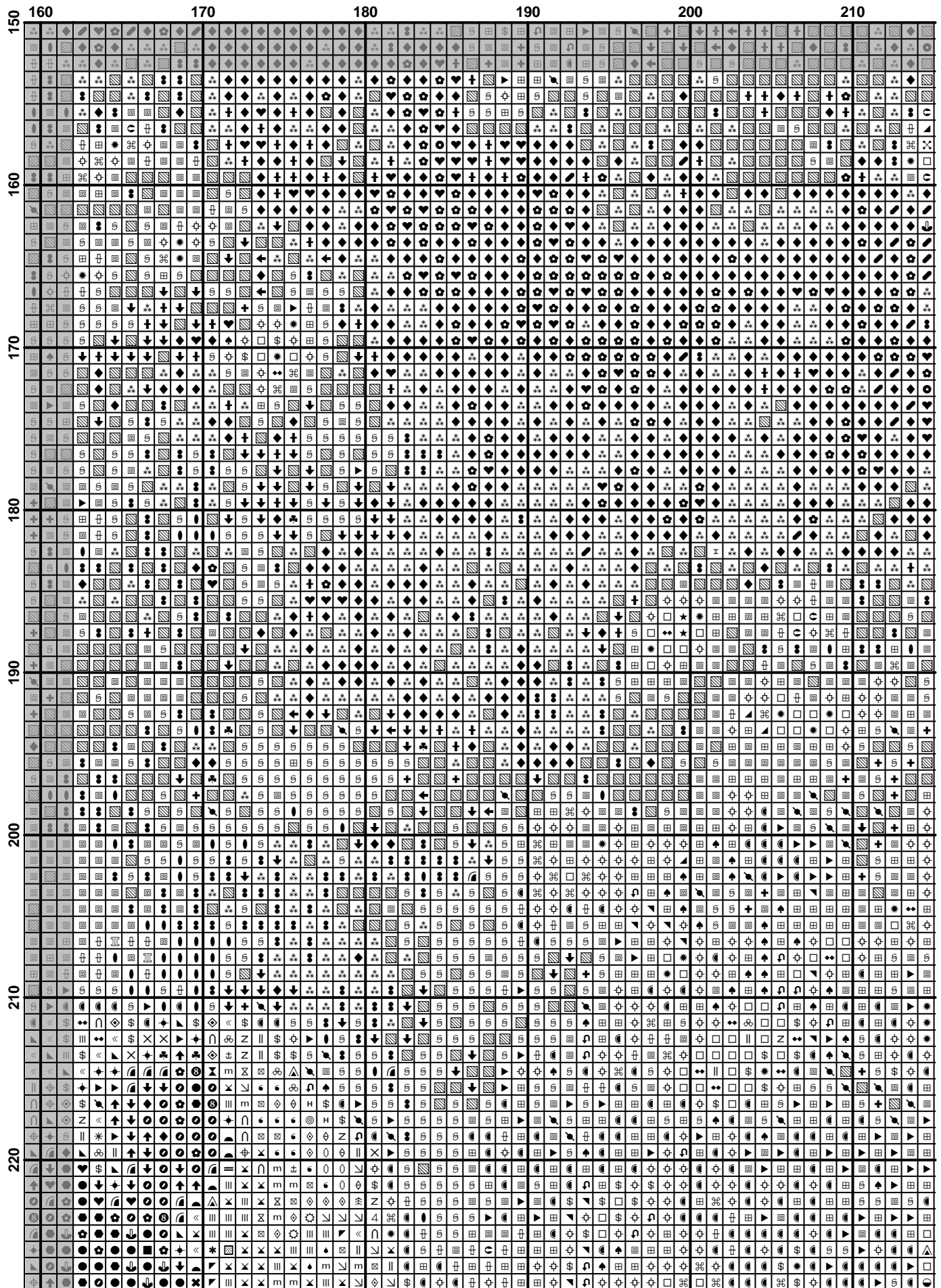






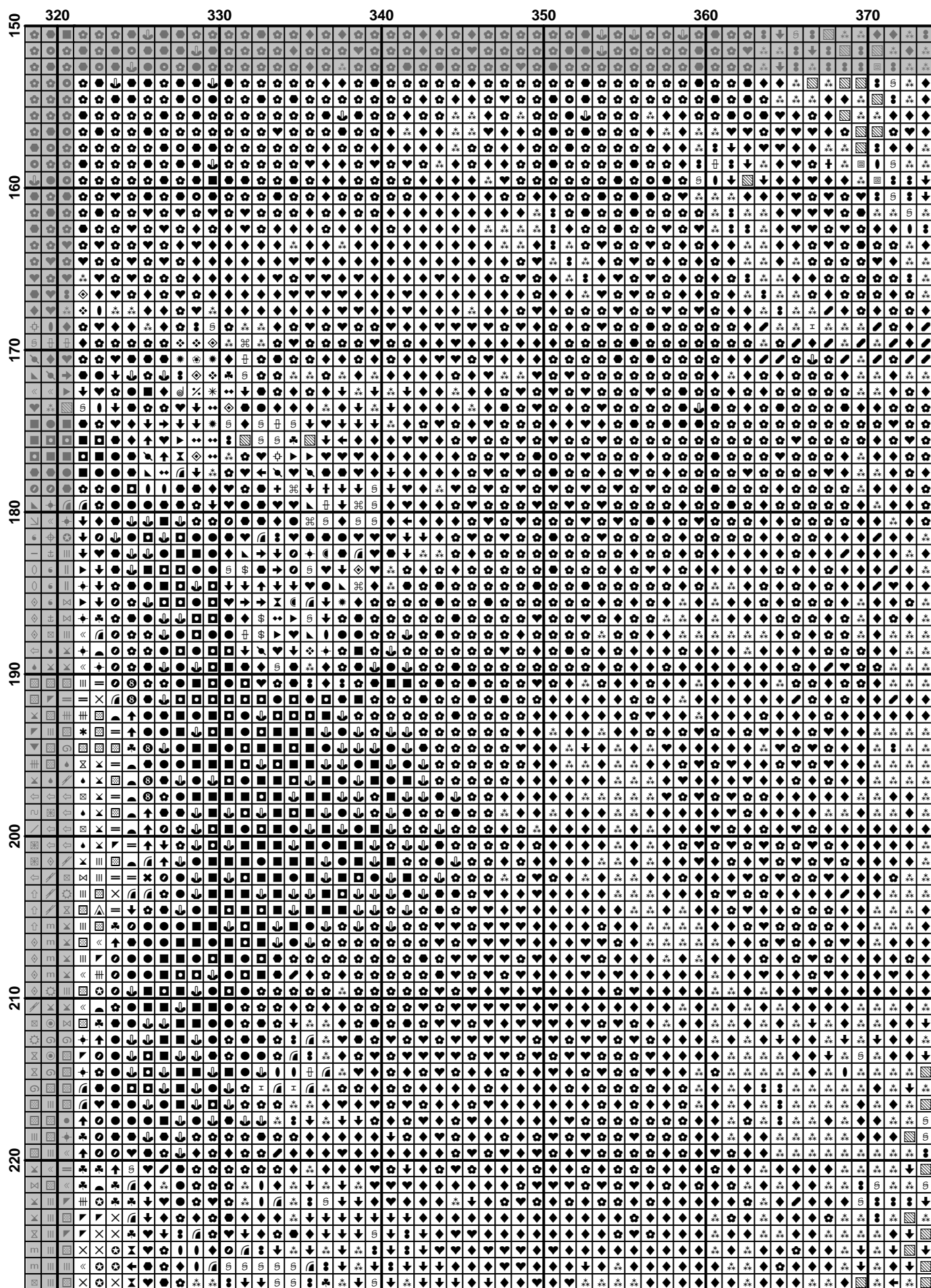


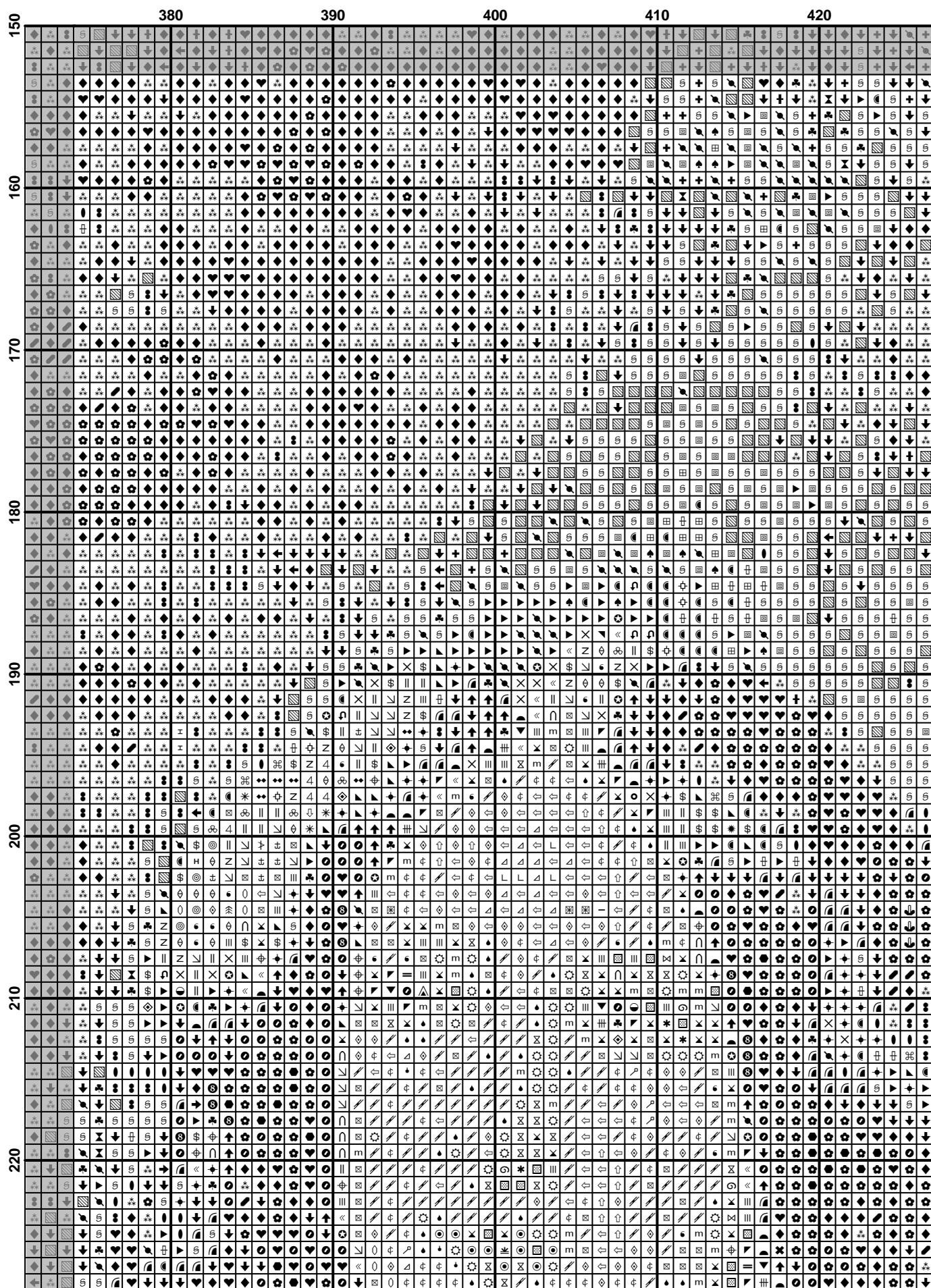


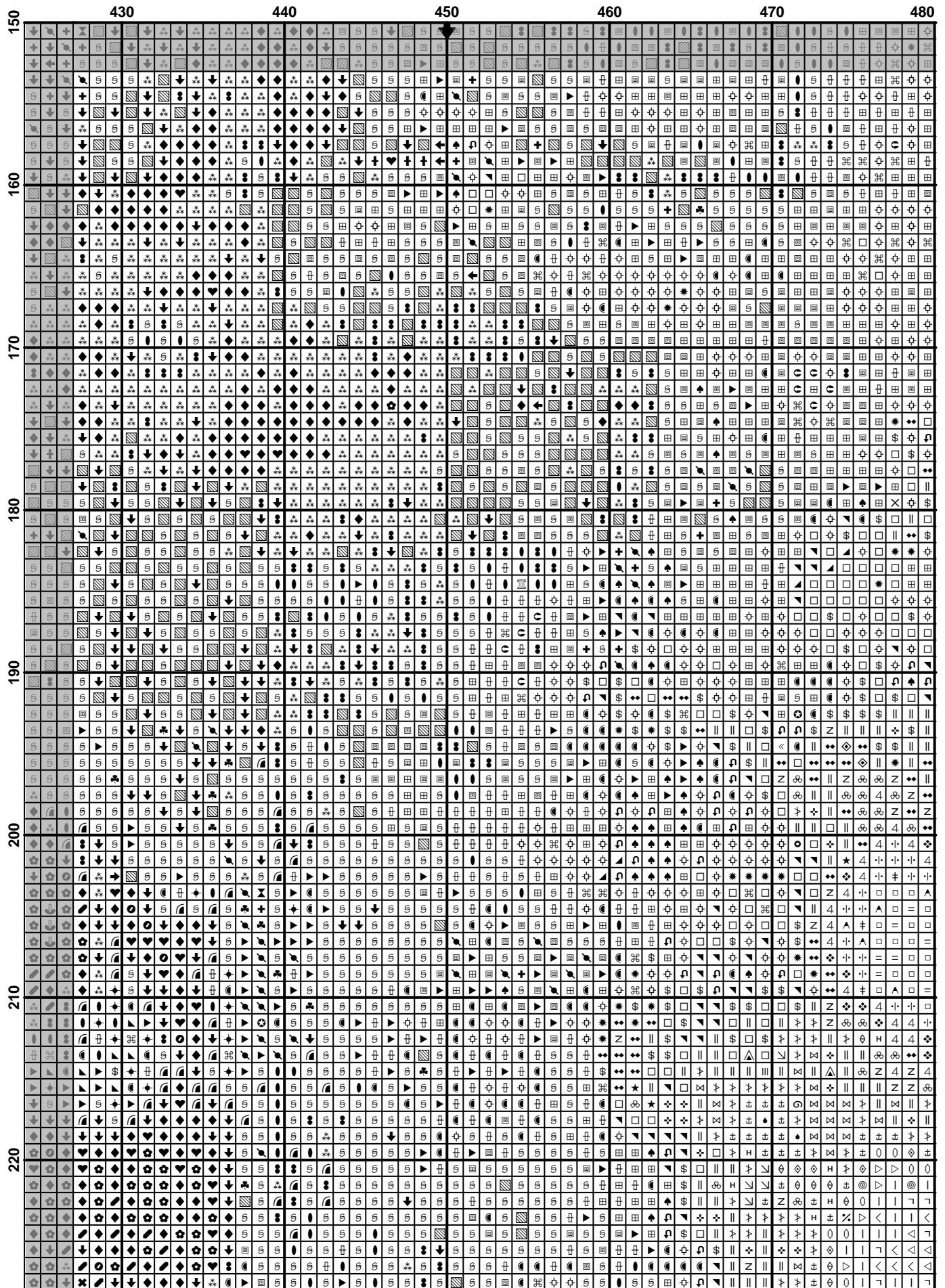




	270	280	290	300	310	320
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220						

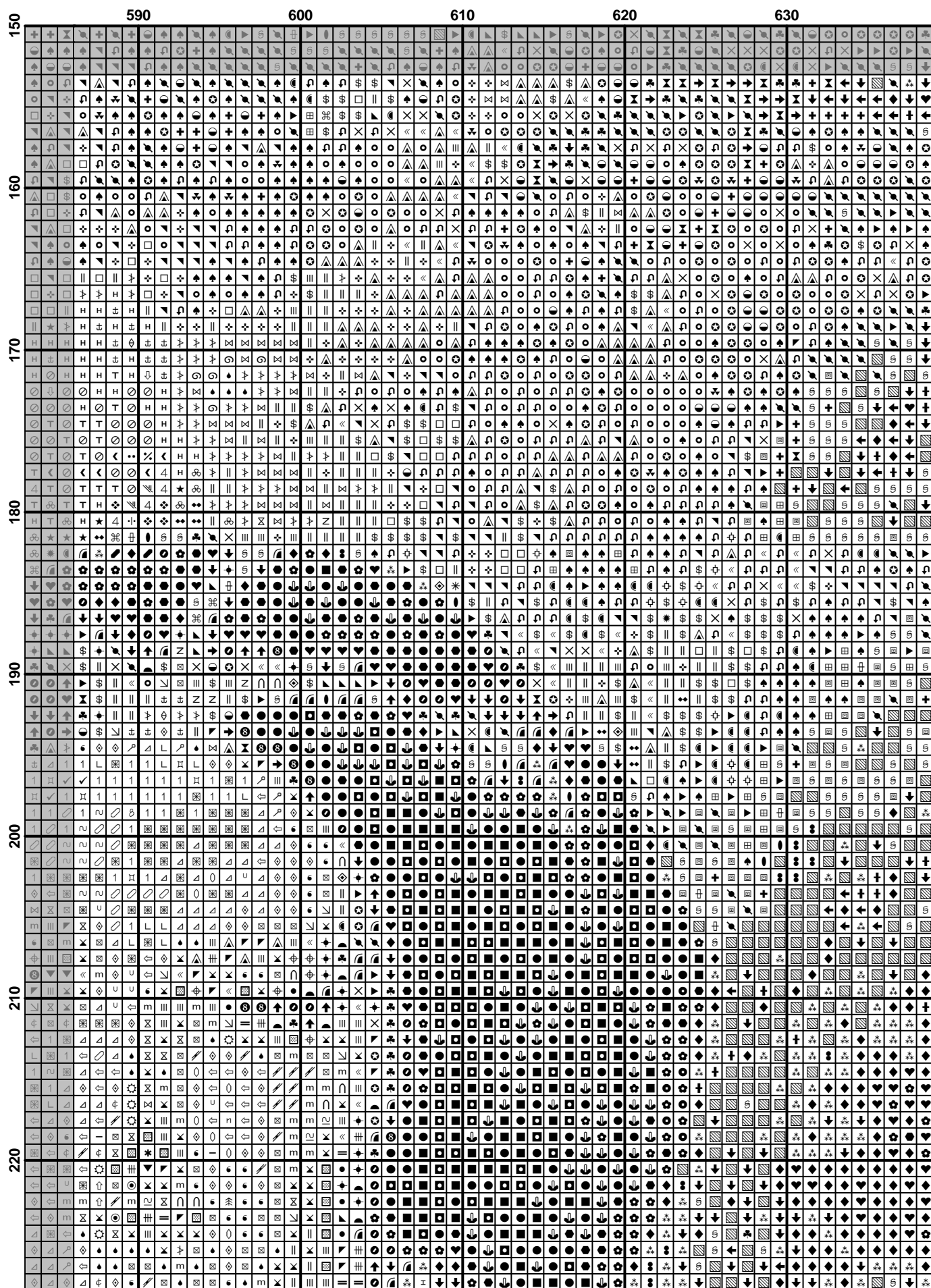


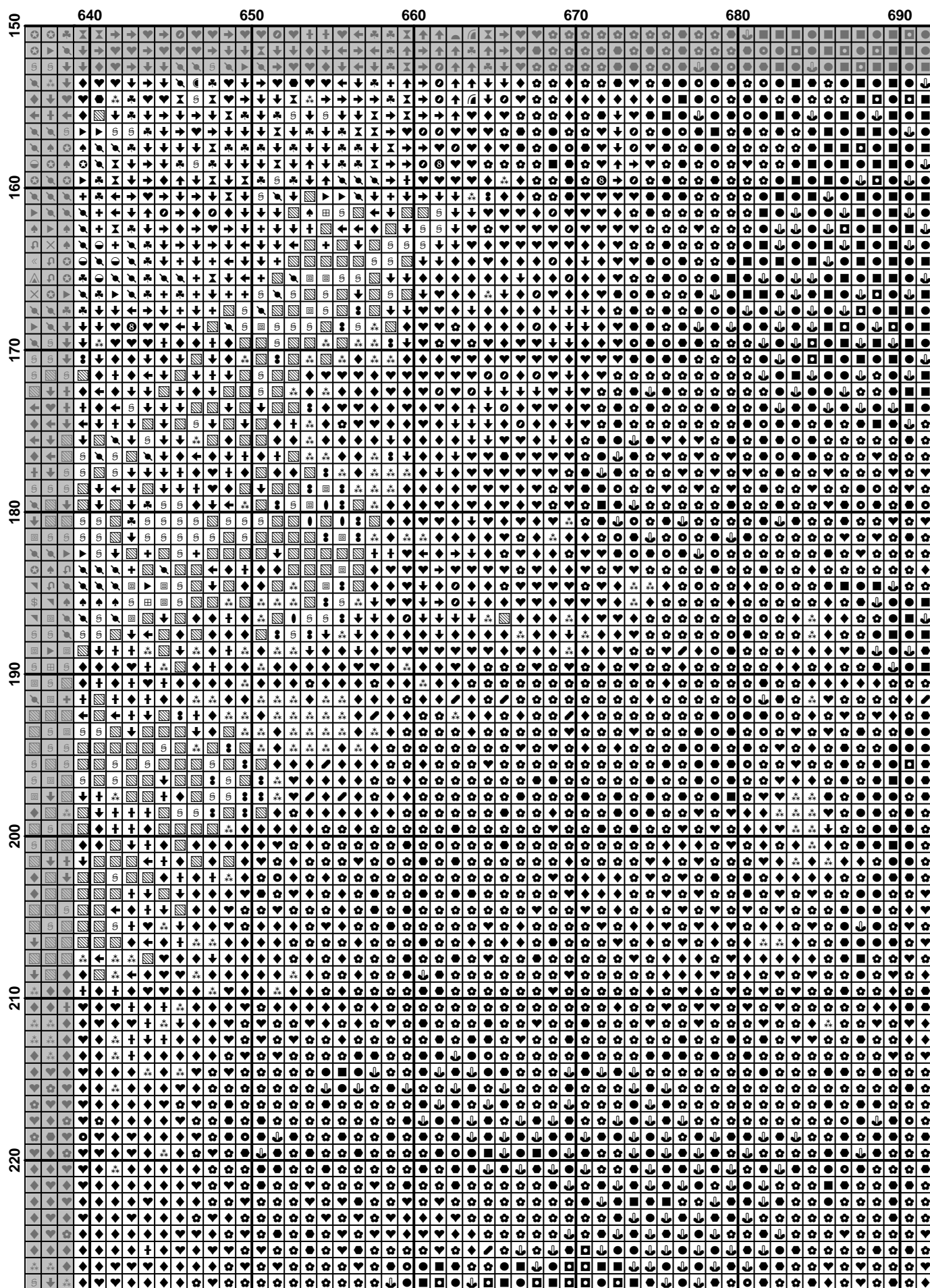


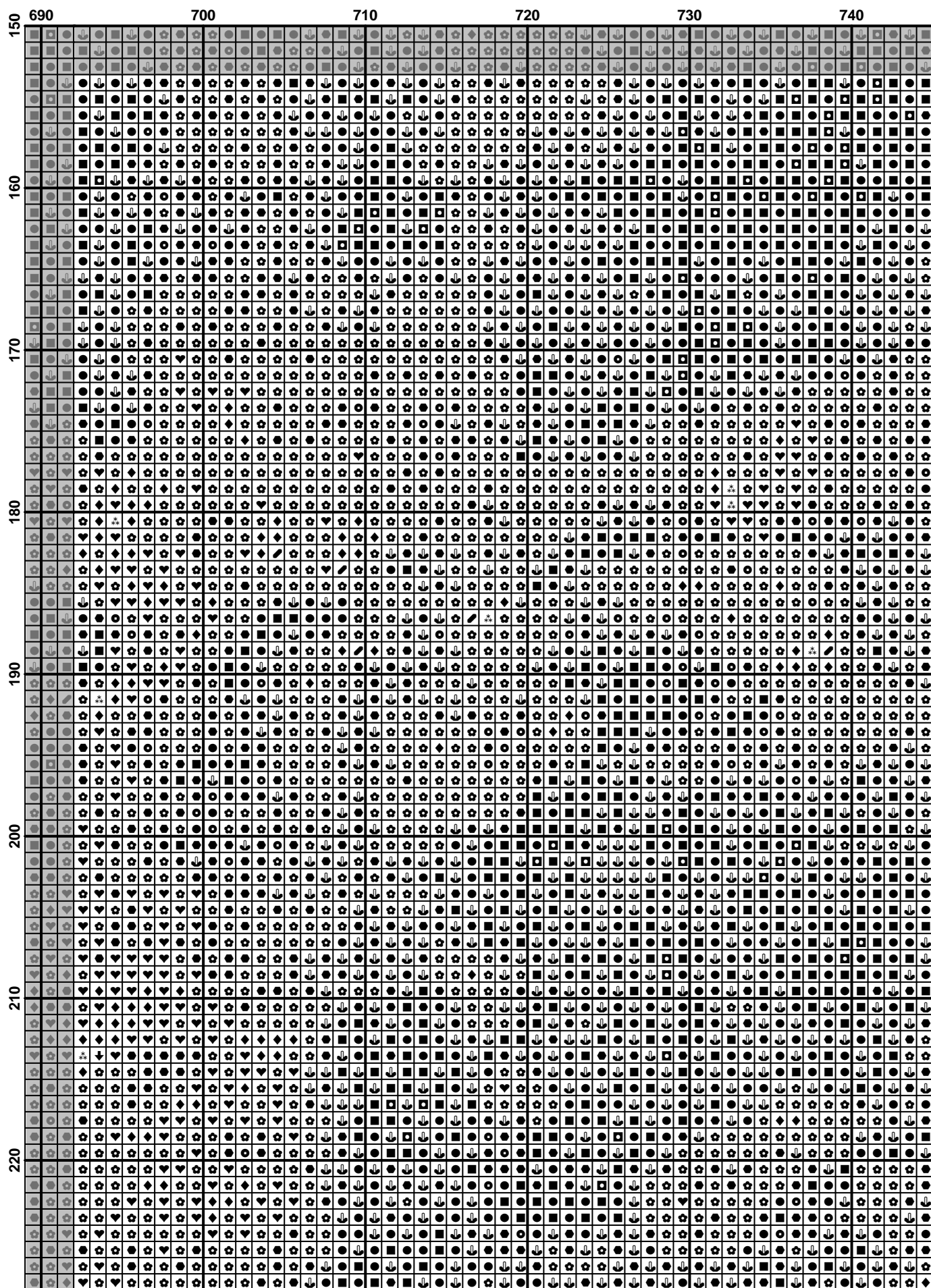


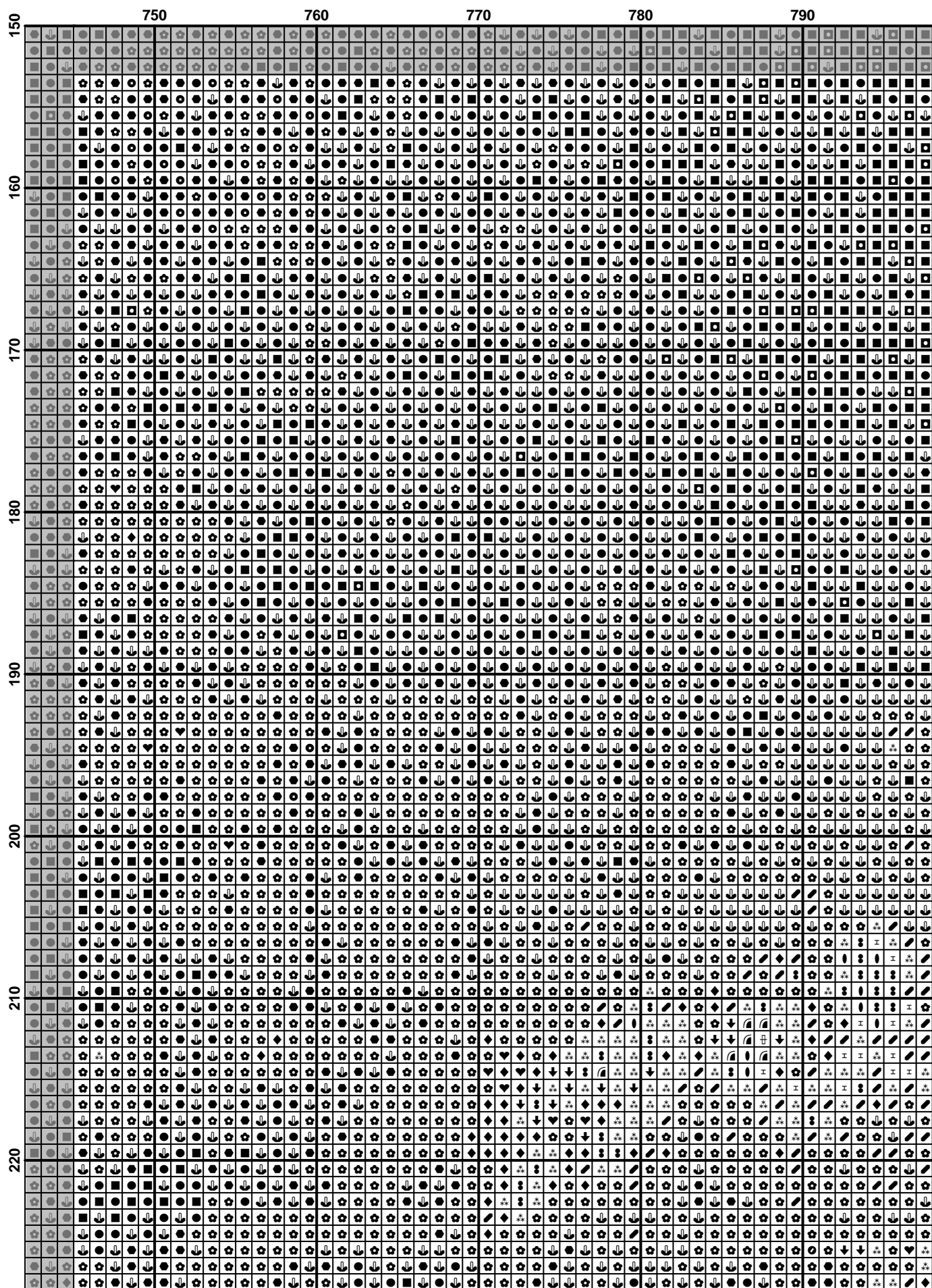
	480	490	500	510	520	530
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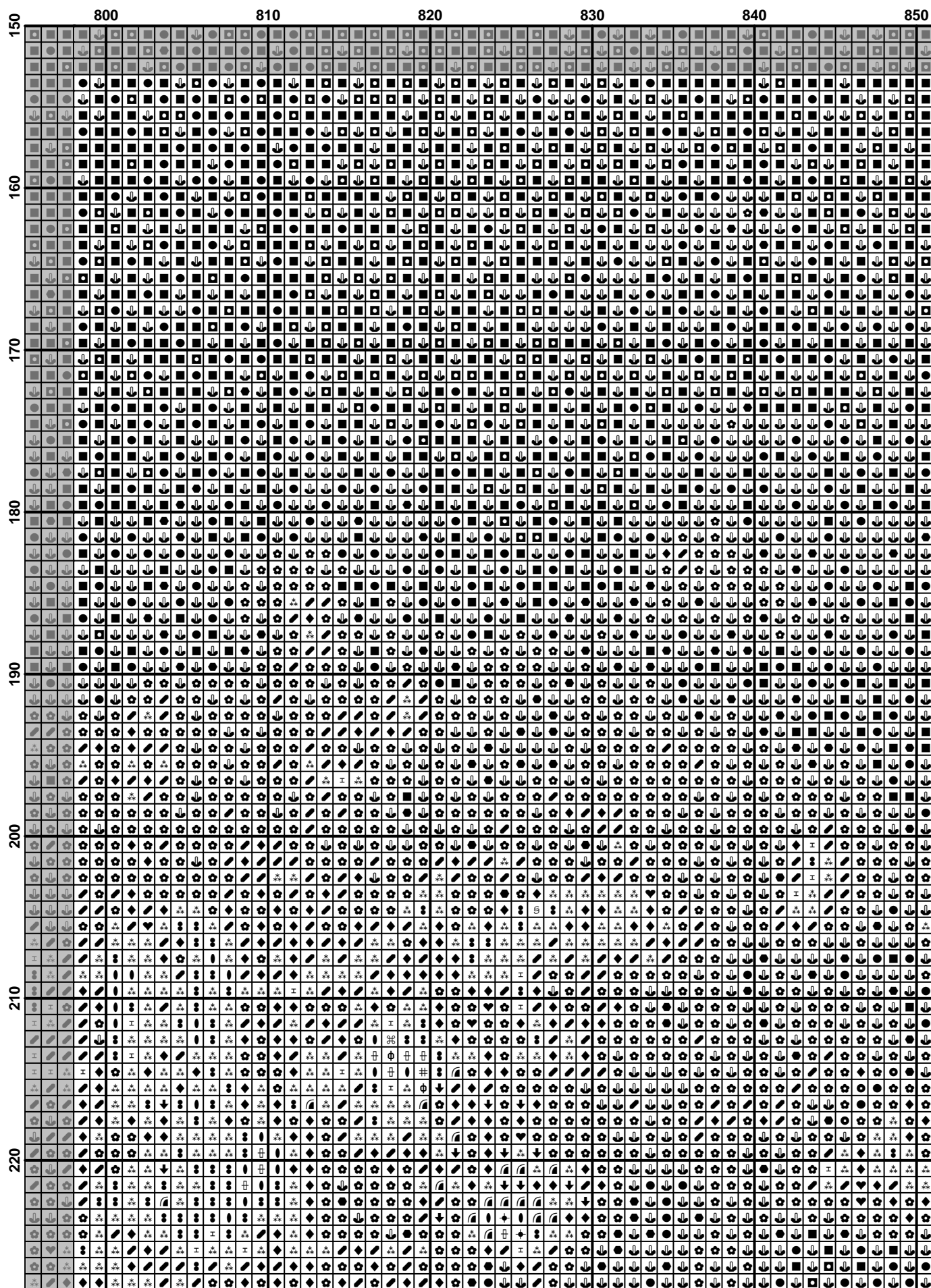
[illegible]

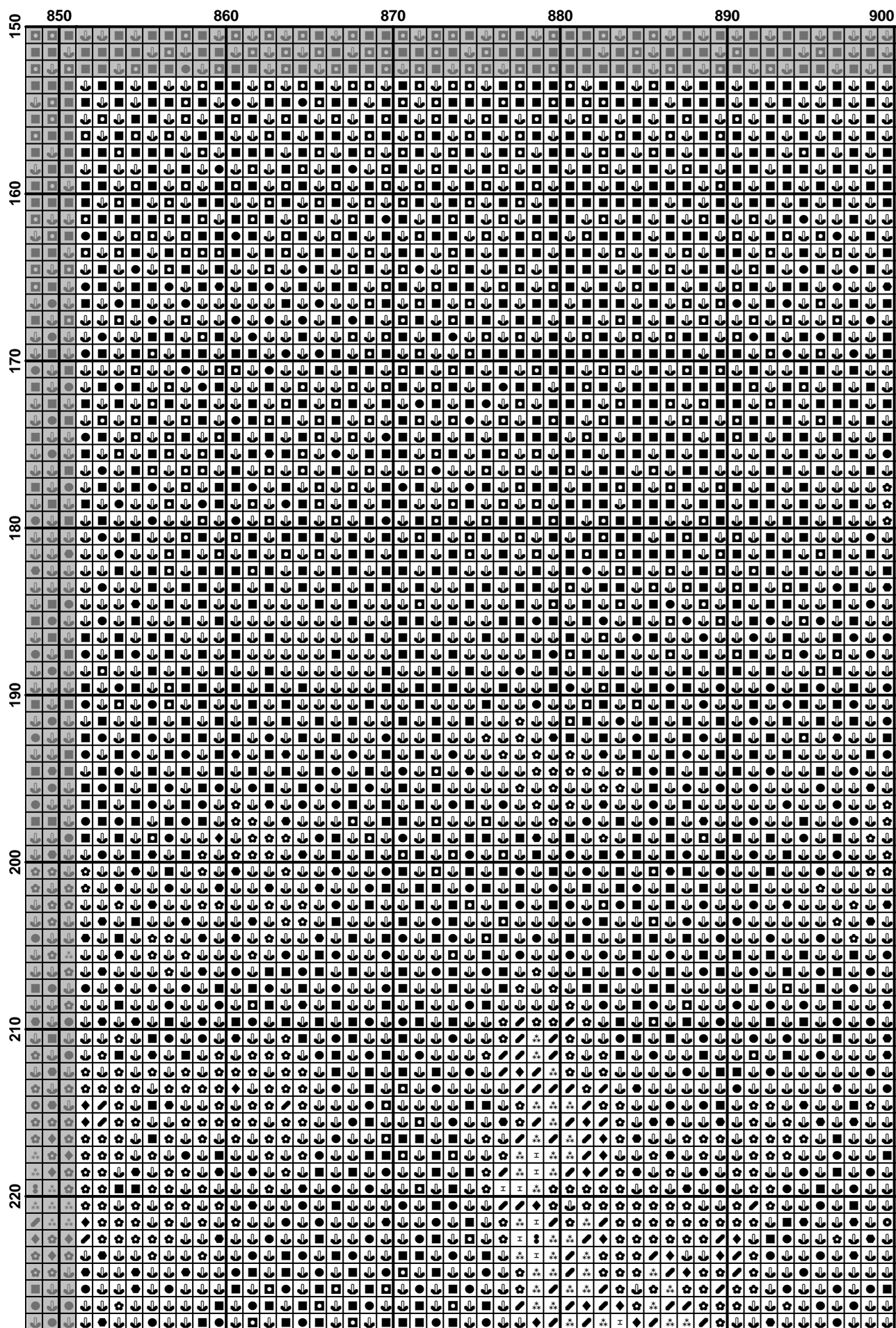


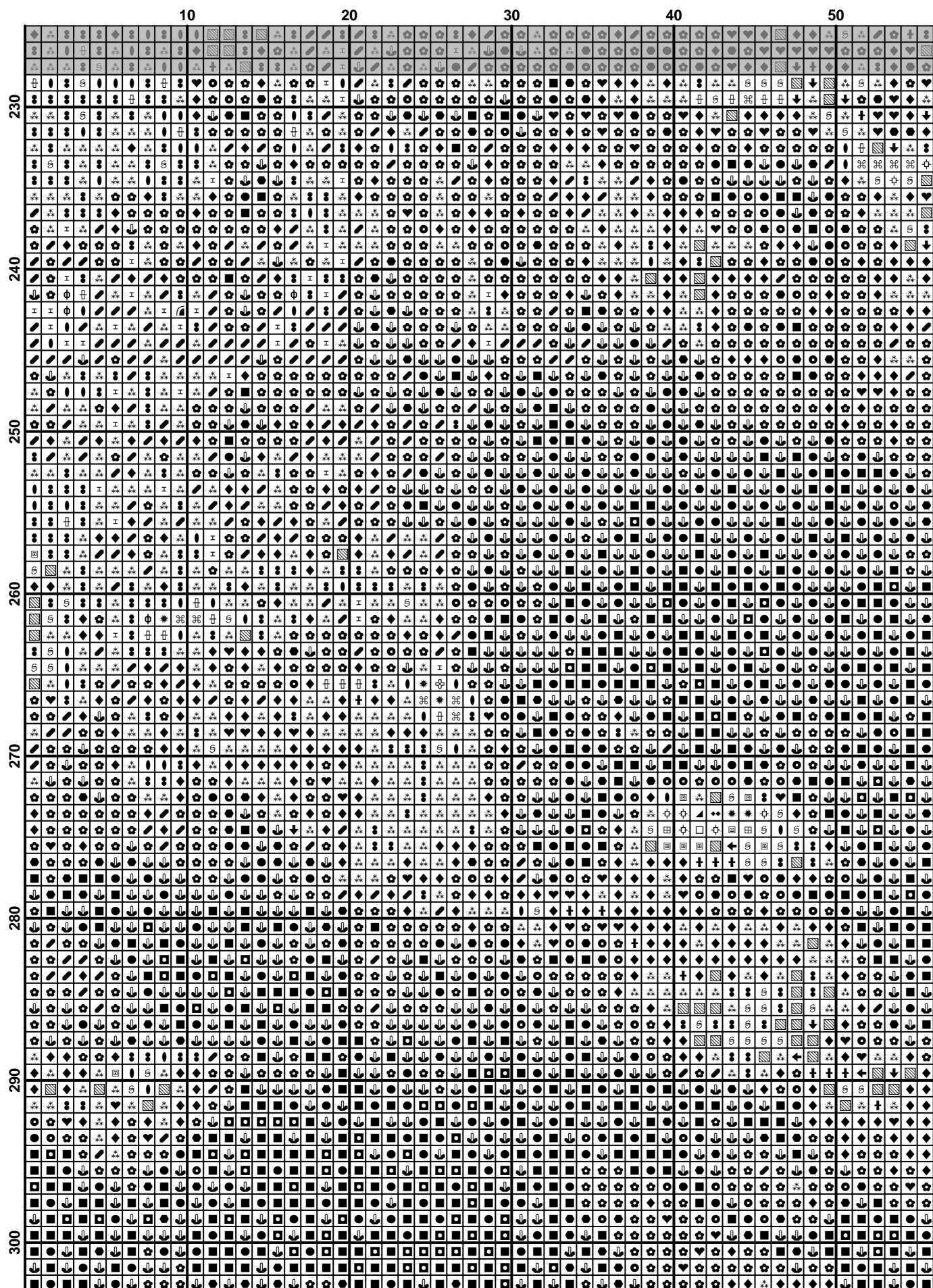


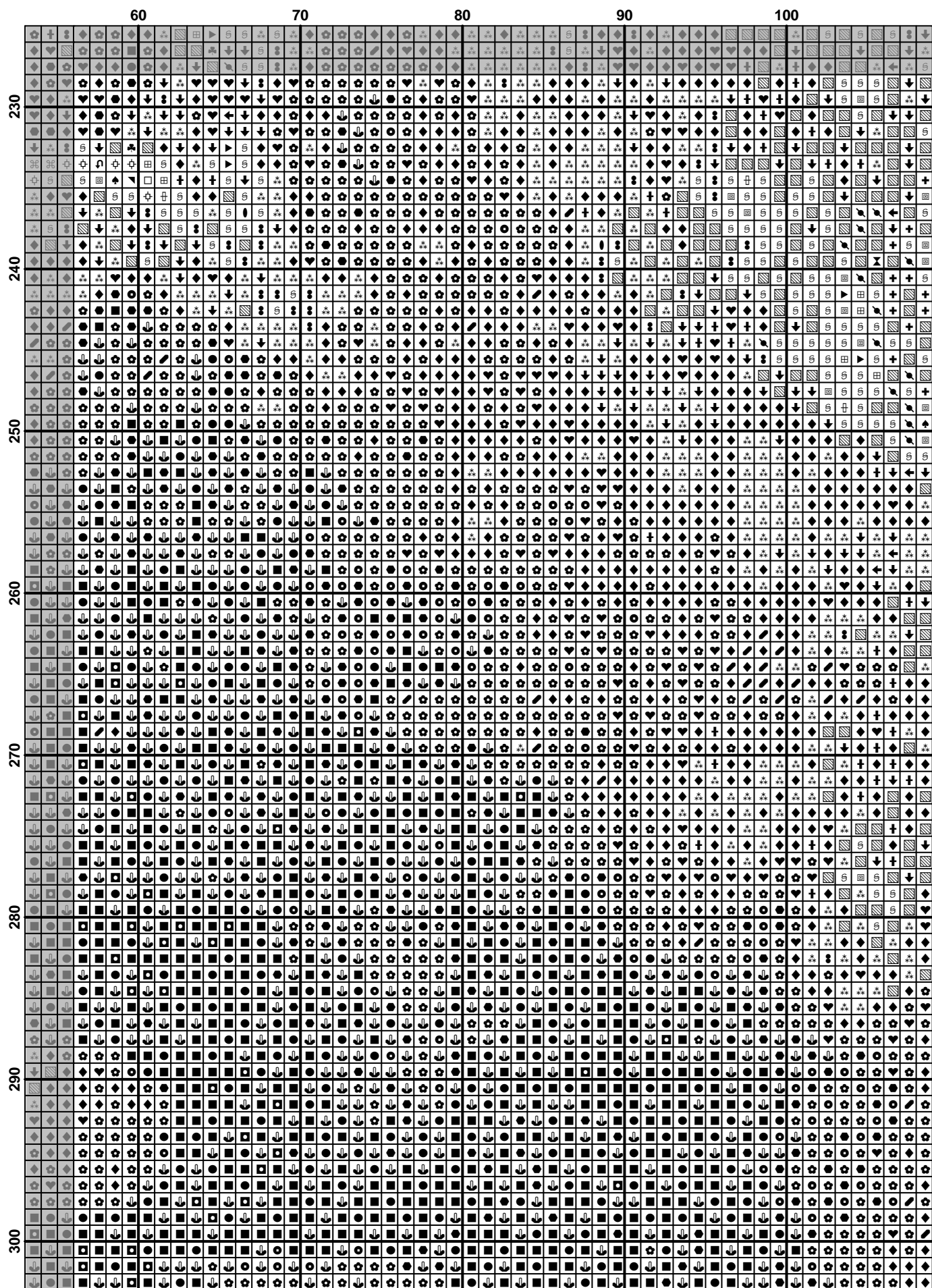




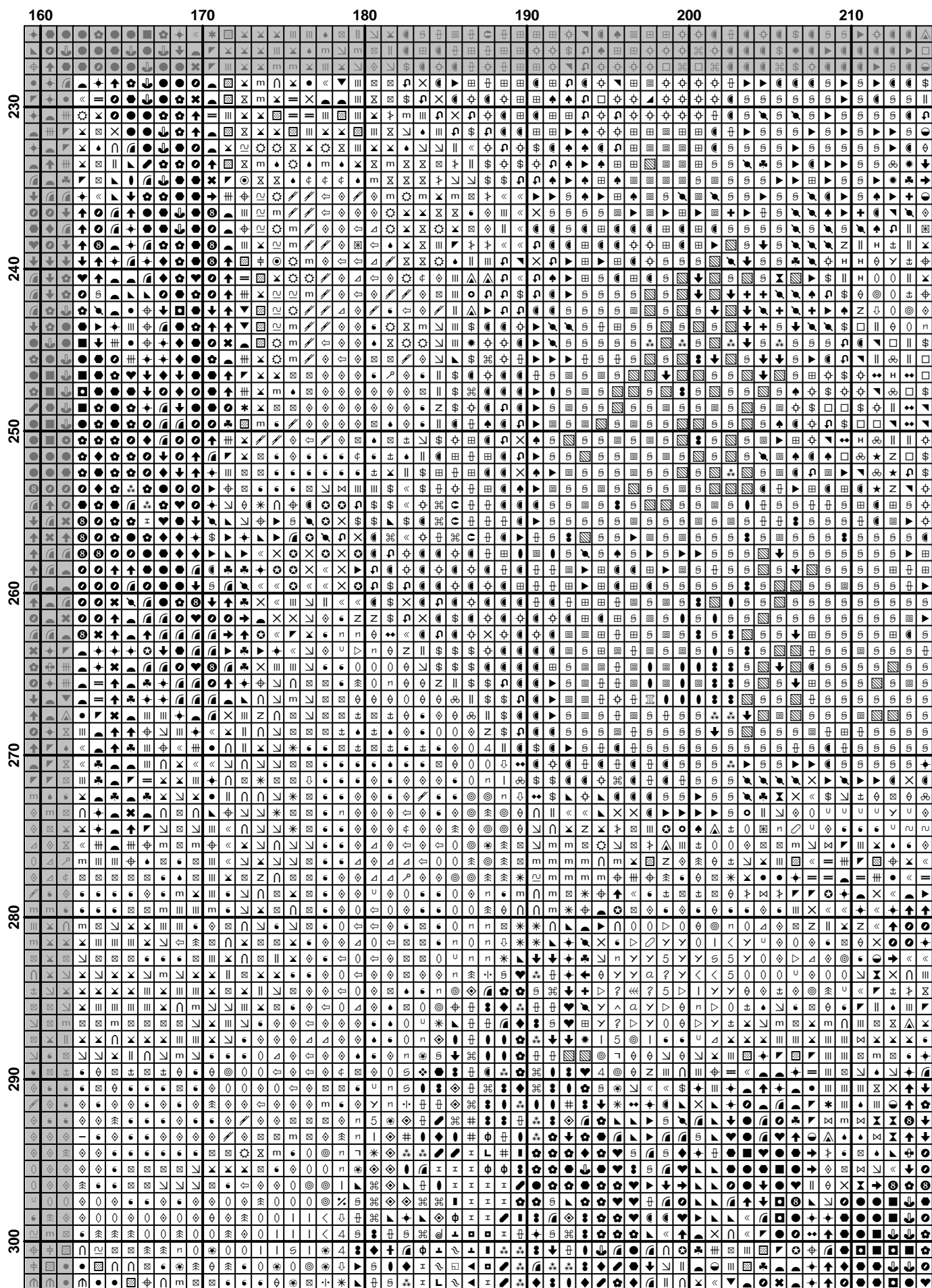


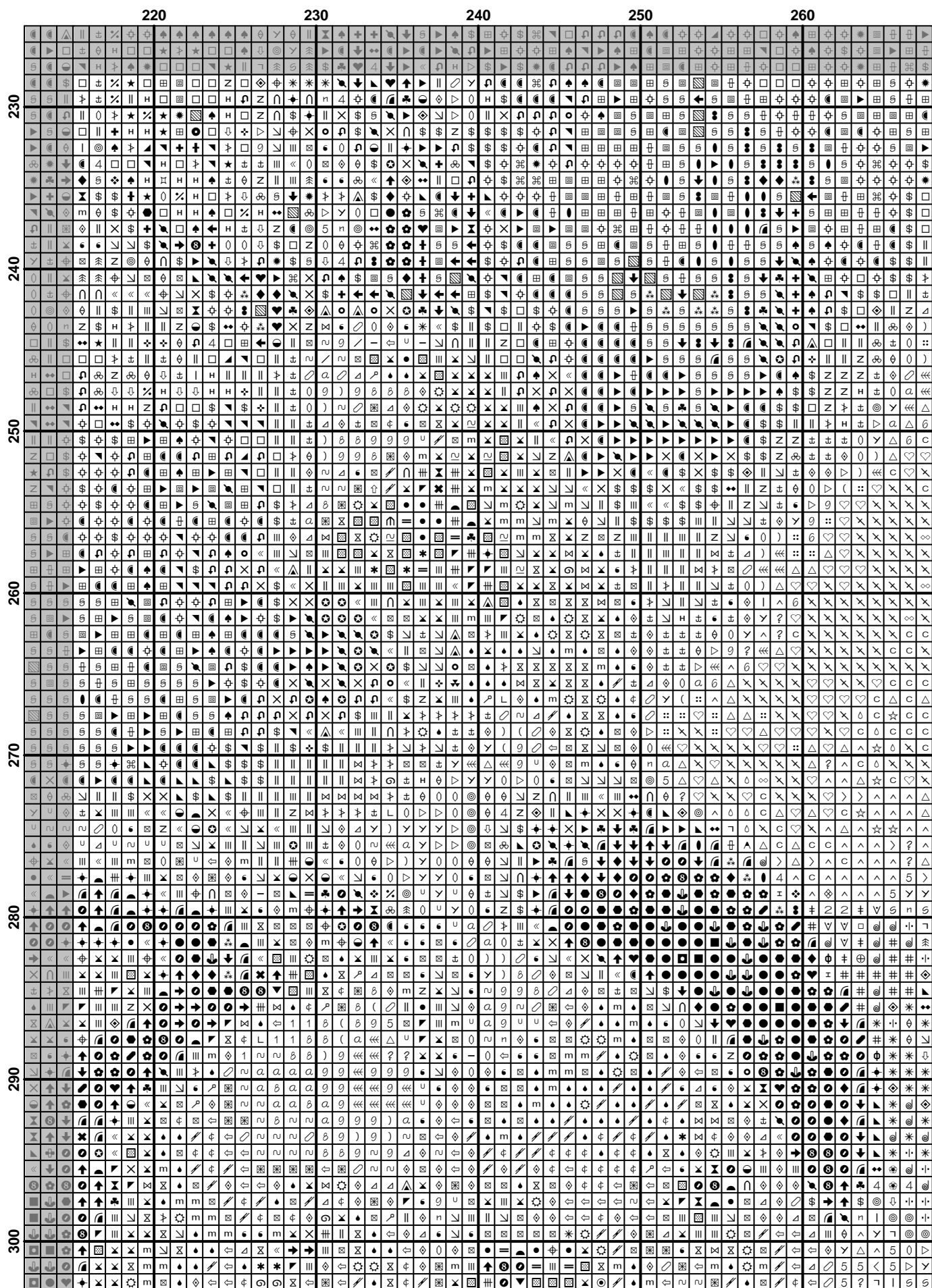






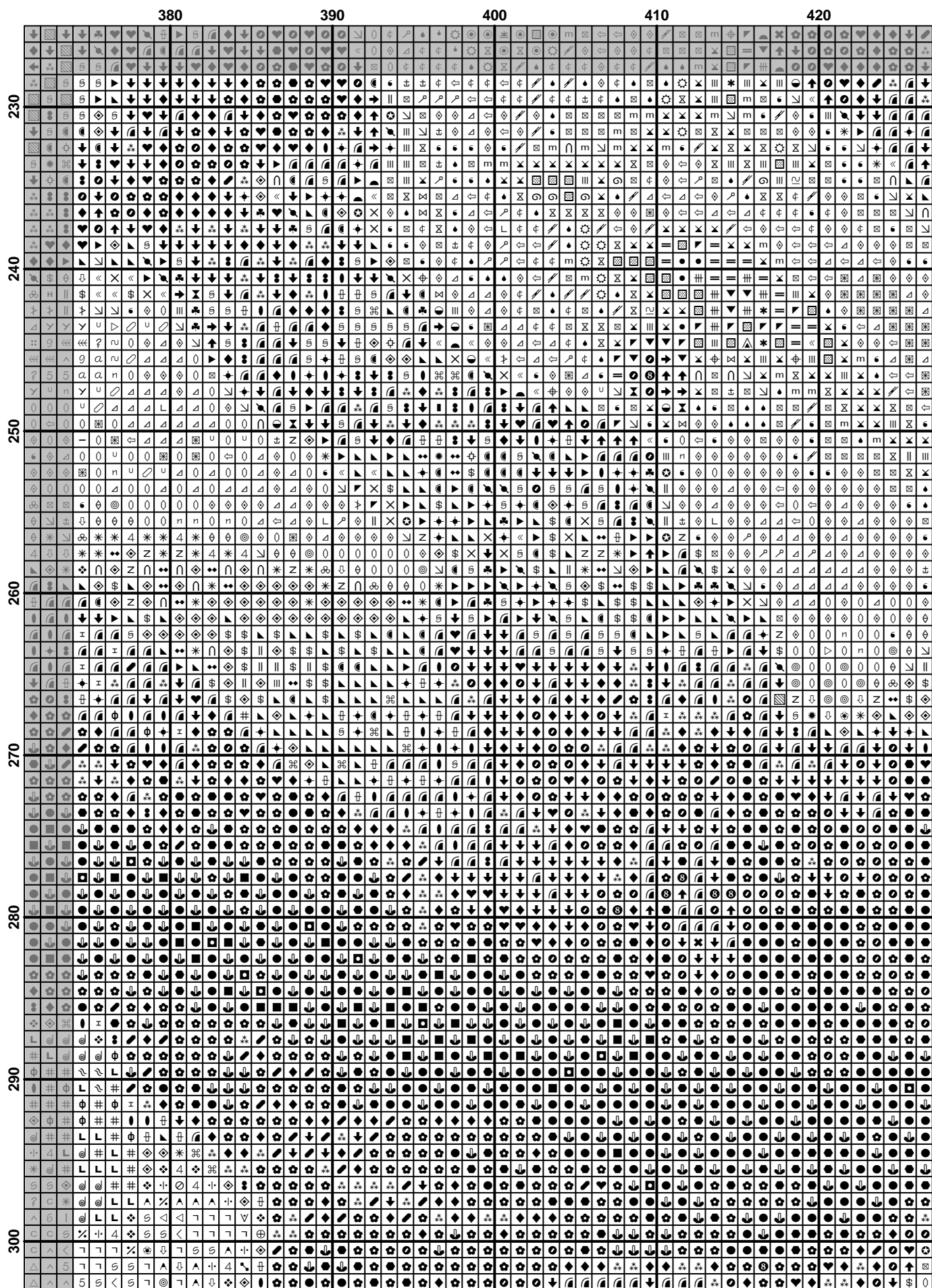
	110	120	130	140	150	160
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300						

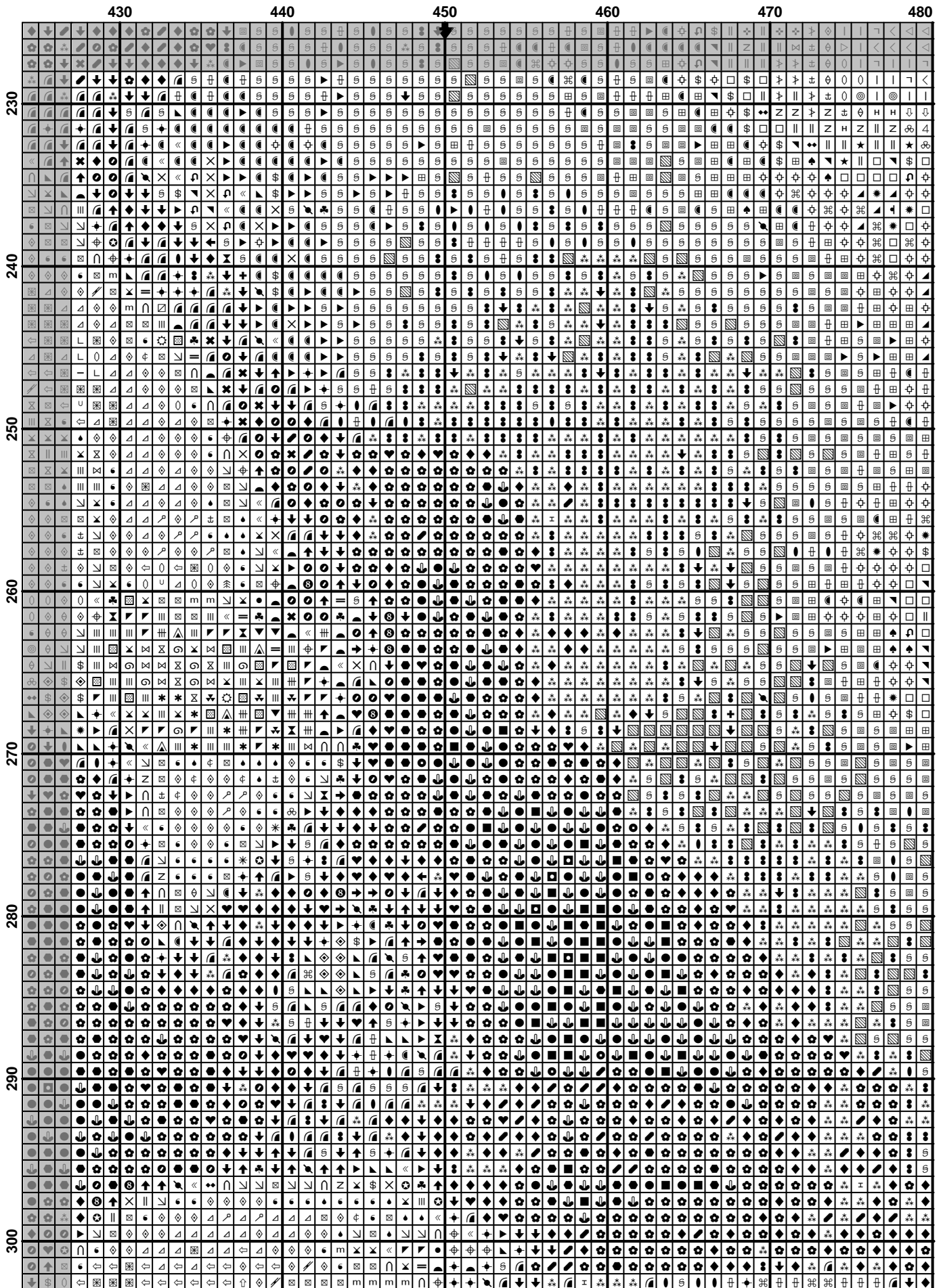




$$(74) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

	320	330	340	350	360	370
230	m	m	m	m	m	m
240	m	m	m	m	m	m
250	m	m	m	m	m	m
260	m	m	m	m	m	m
270	m	m	m	m	m	m
280	m	m	m	m	m	m
290	m	m	m	m	m	m
300	m	m	m	m	m	m

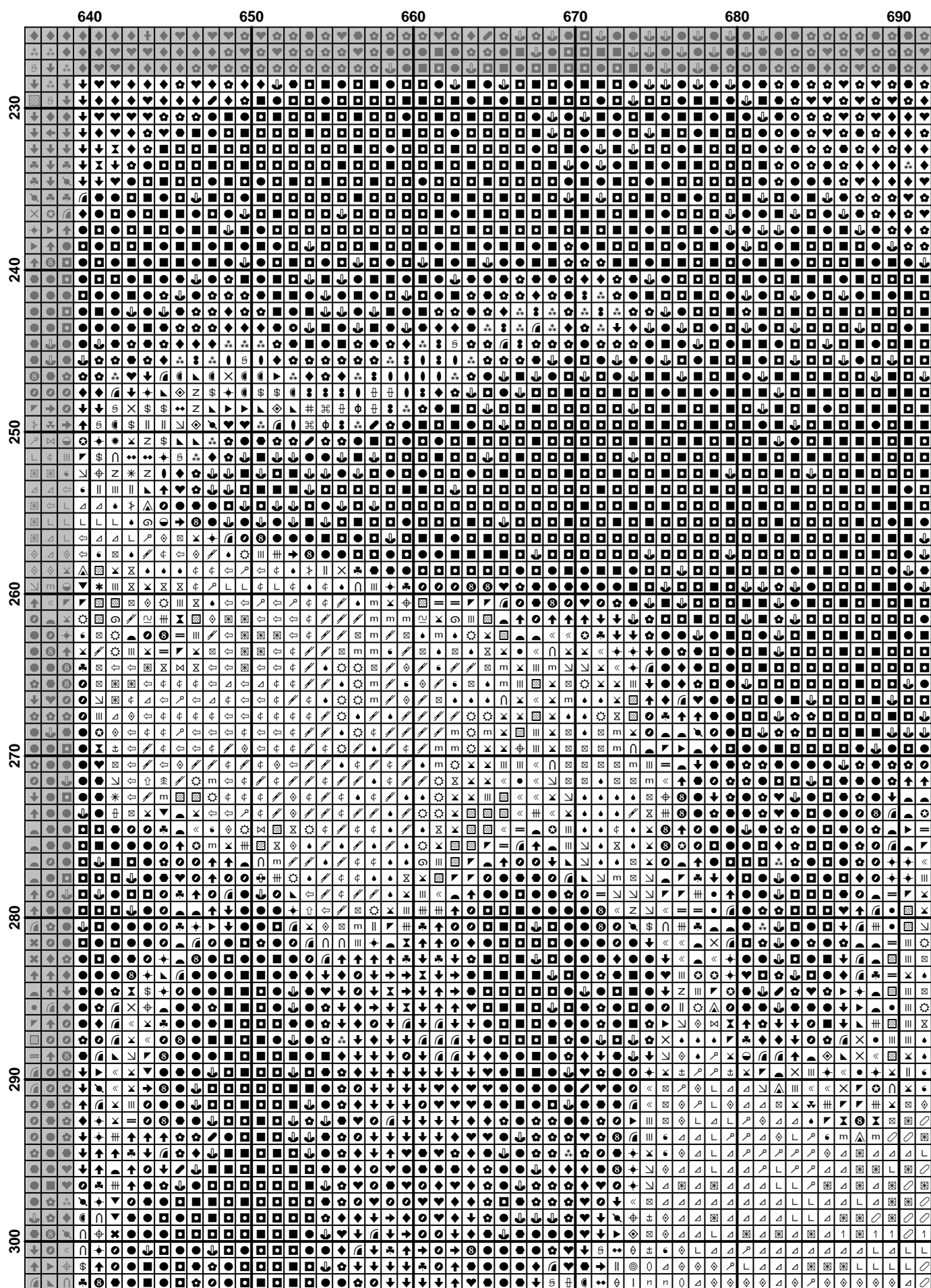


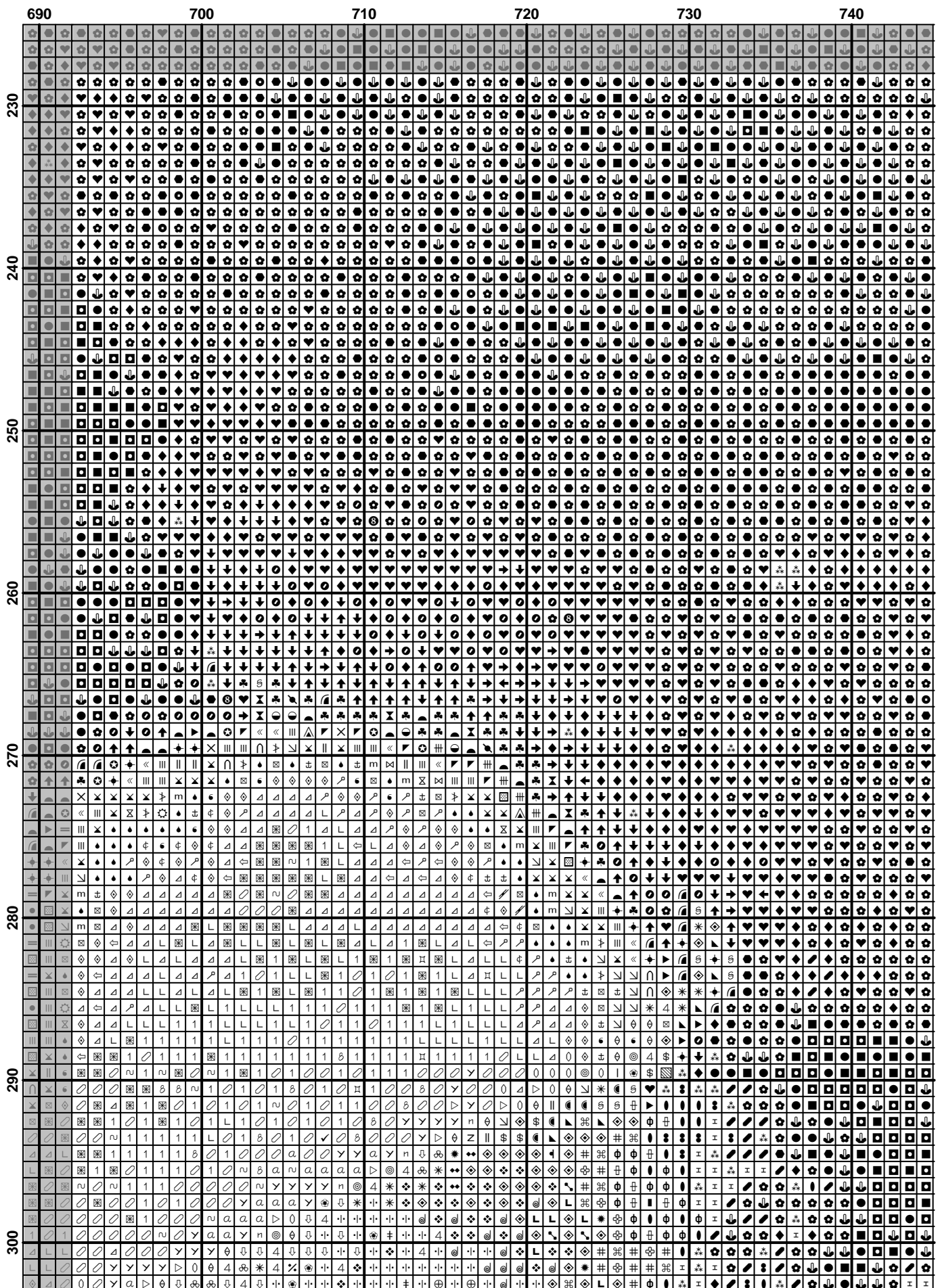


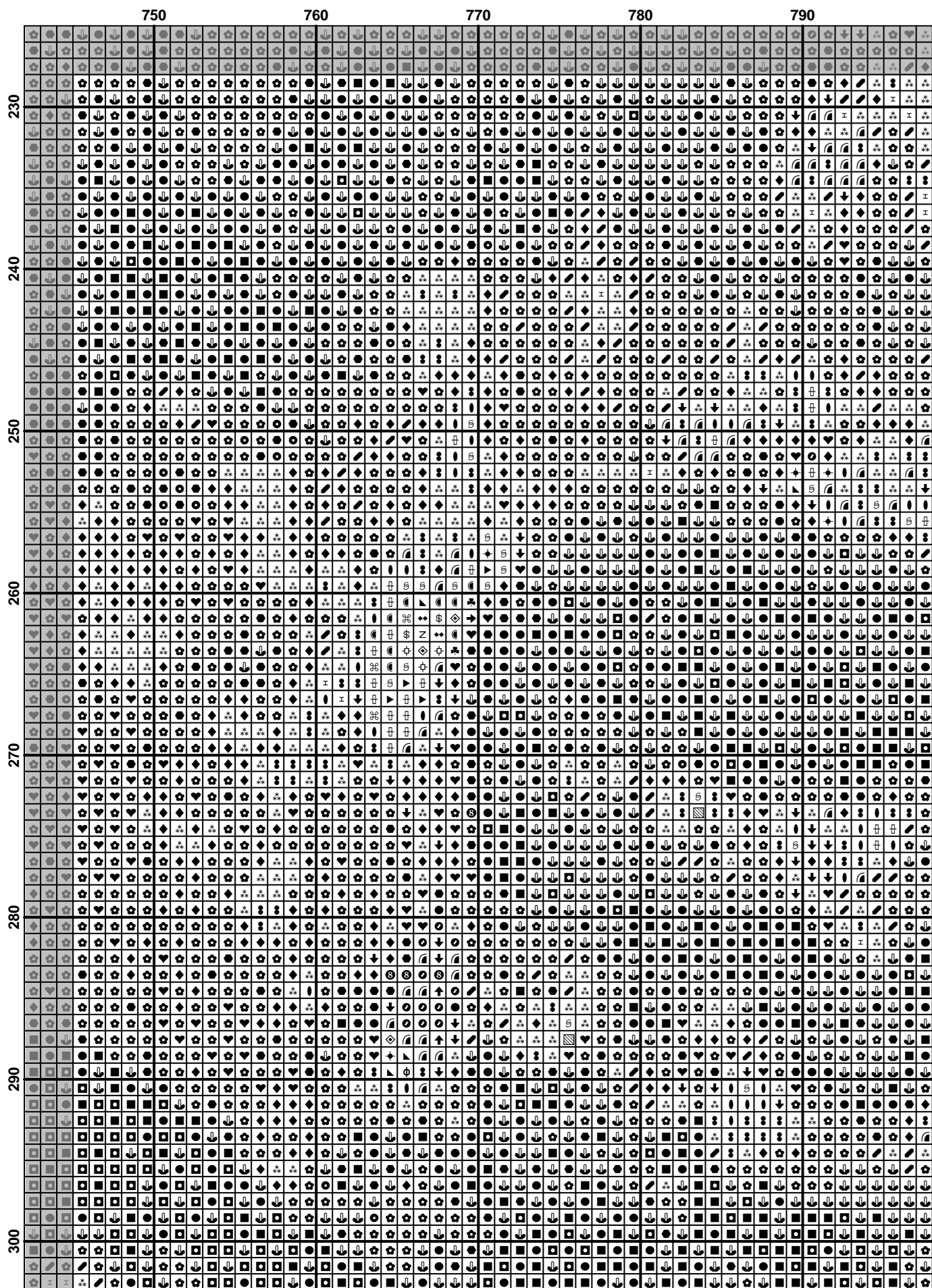
[illegible]

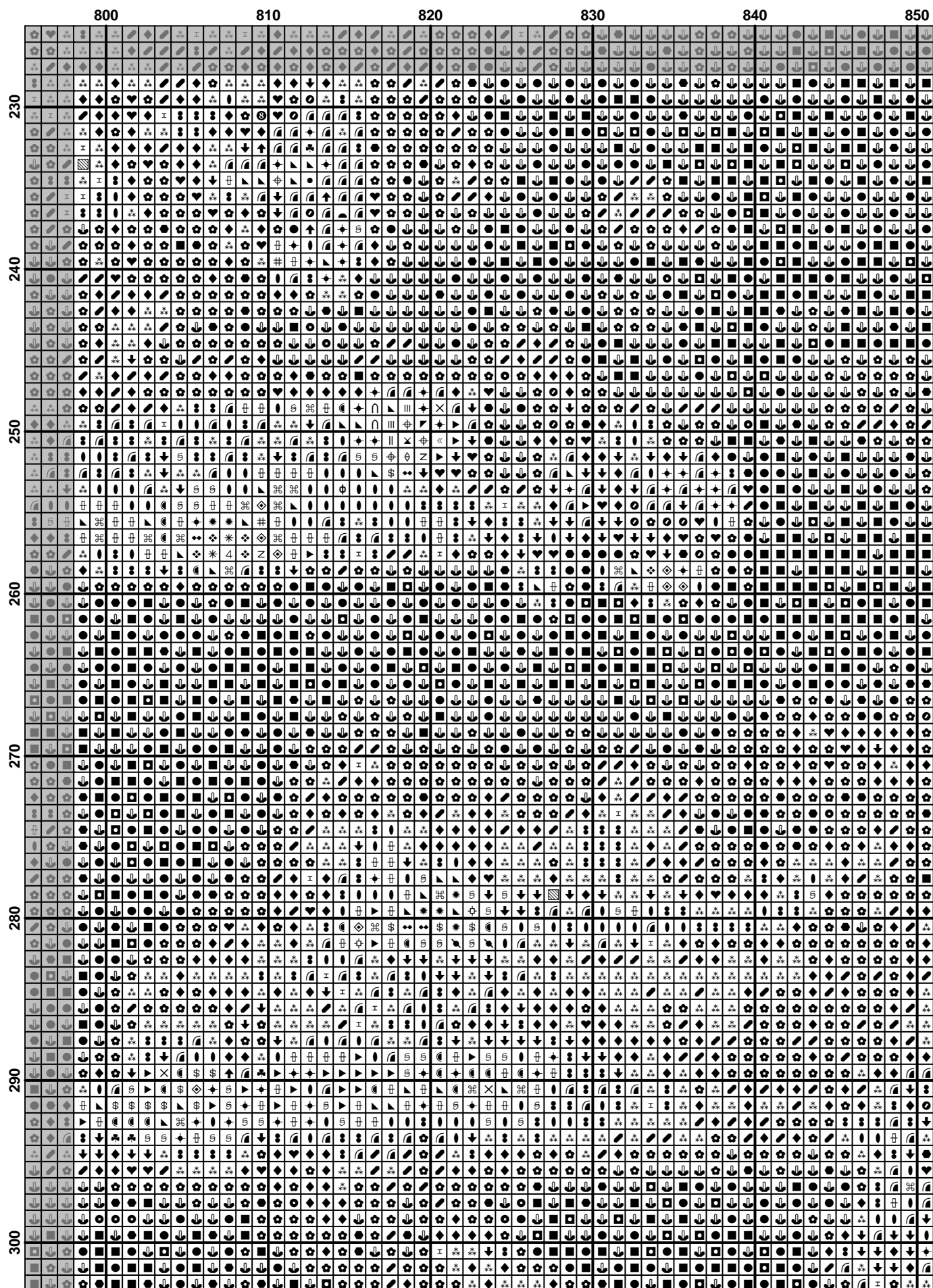
$$(79) \quad \begin{aligned} & \text{[The } \langle \text{Noun}_i \rangle \text{ is a noun]} \\ & \text{[The } \langle \text{Verb}_j \rangle \text{ is a verb]} \end{aligned}$$

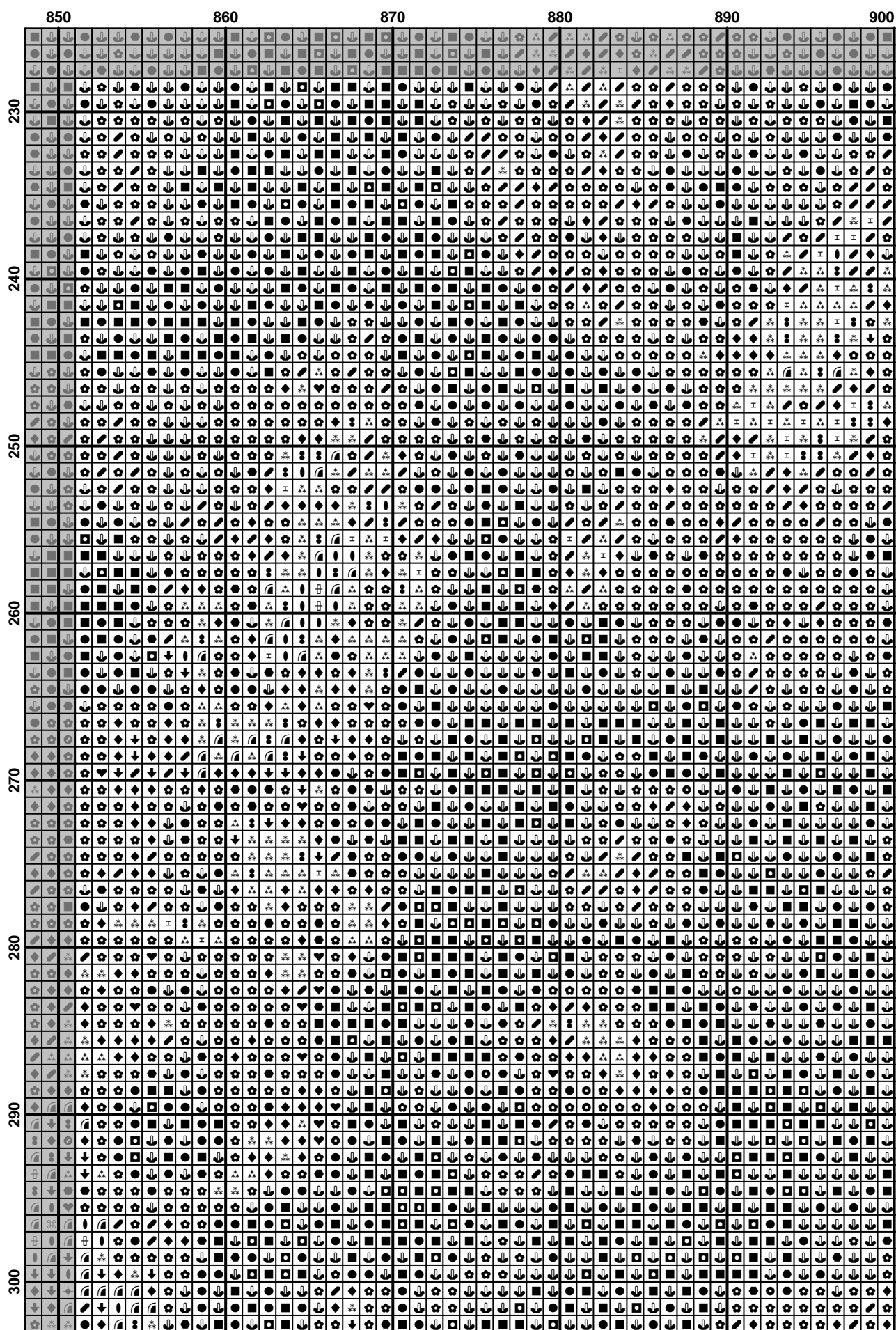
	590	600	610	620	630
230					
240					
250					
260					
270					
280					
290					
300					

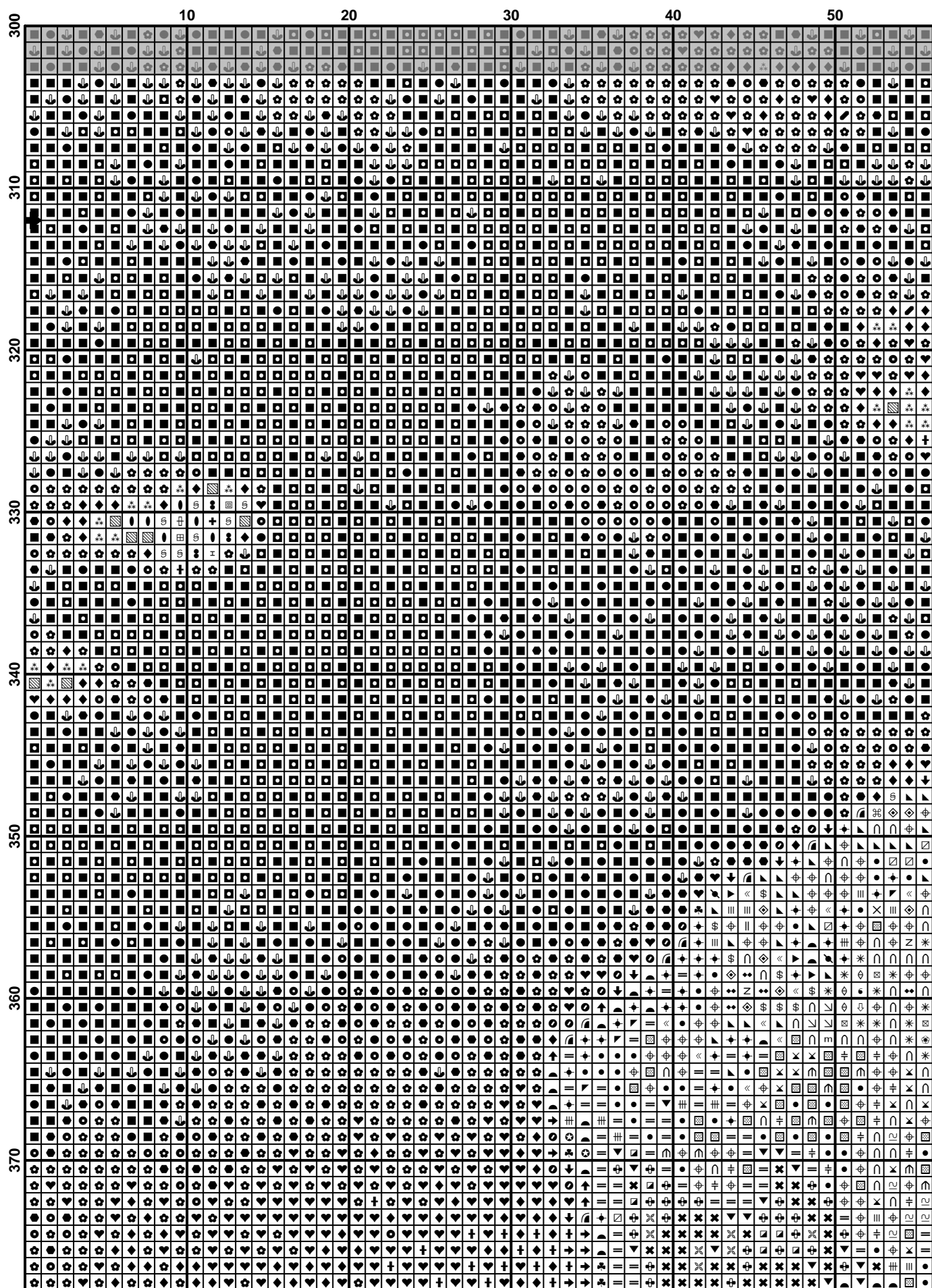


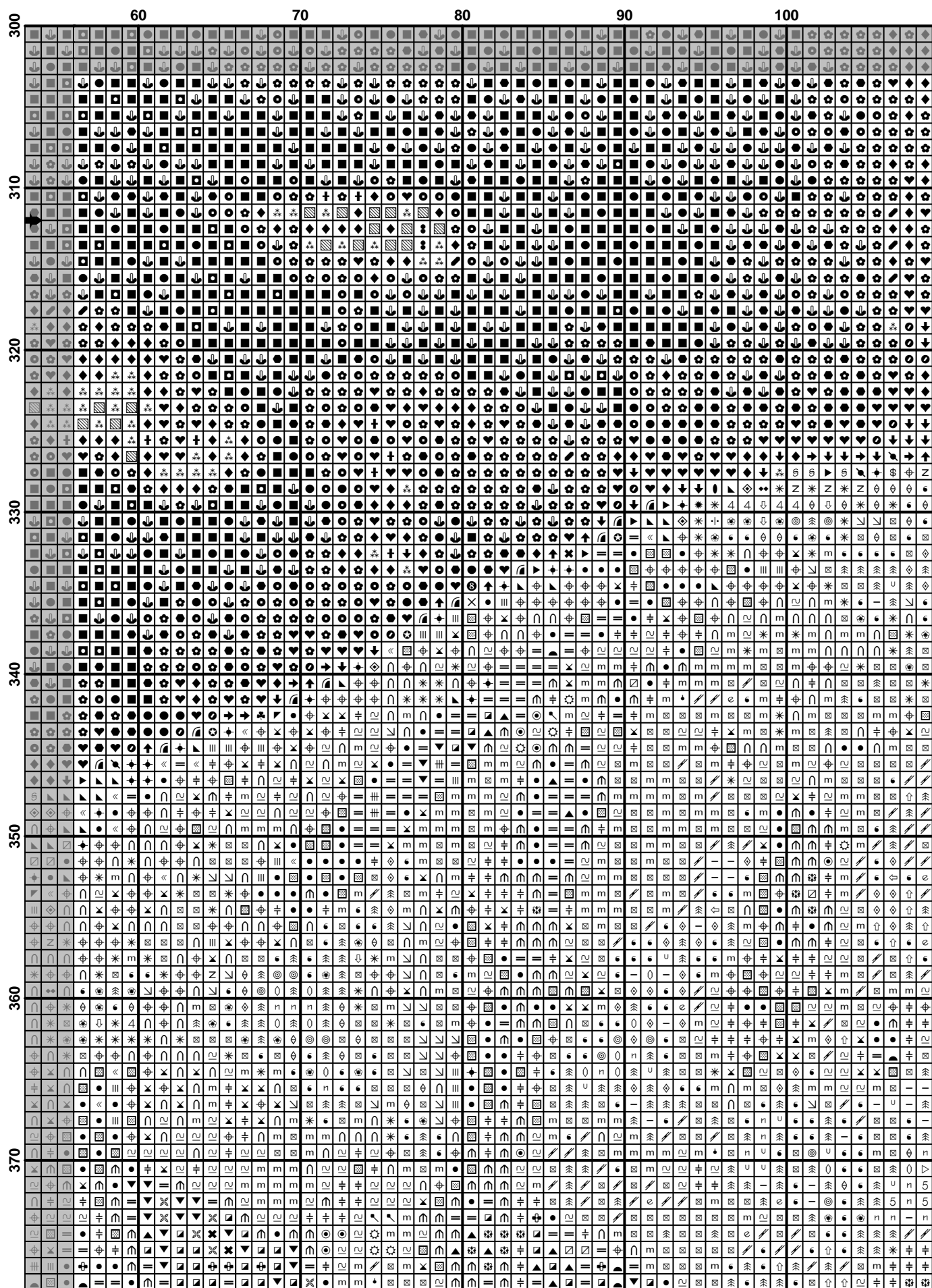




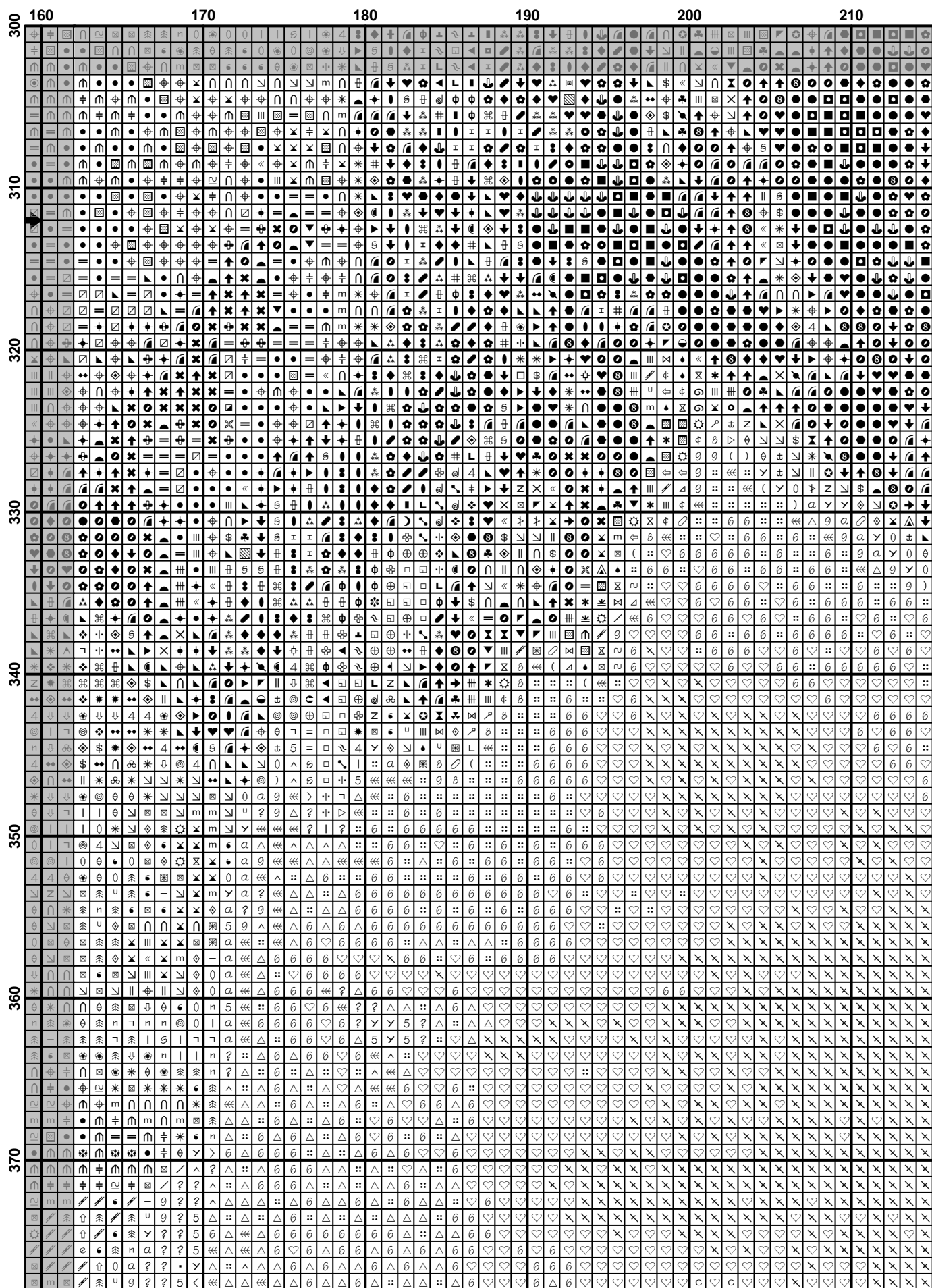


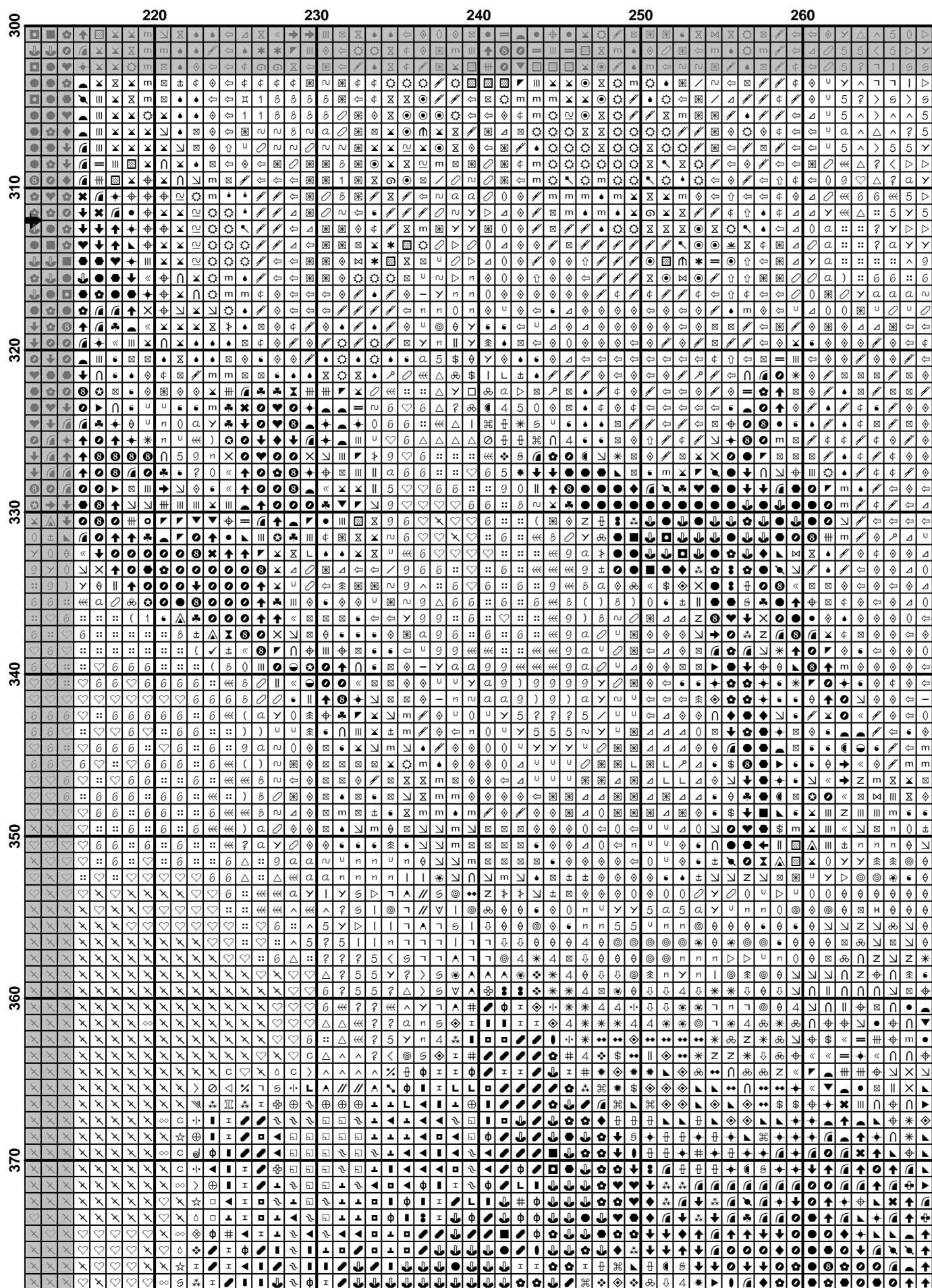






$$(88) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

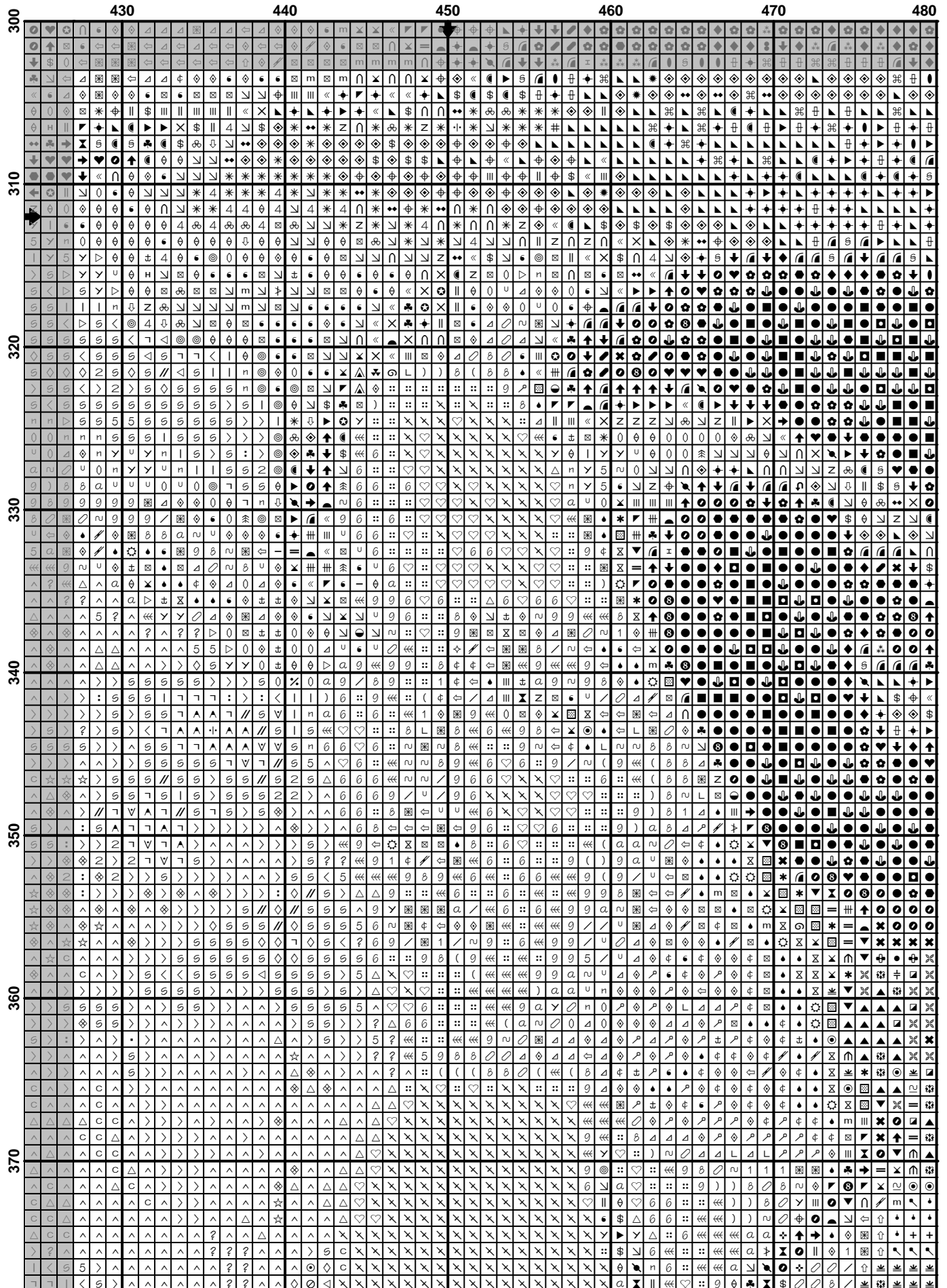




[illegible]

[illegible]

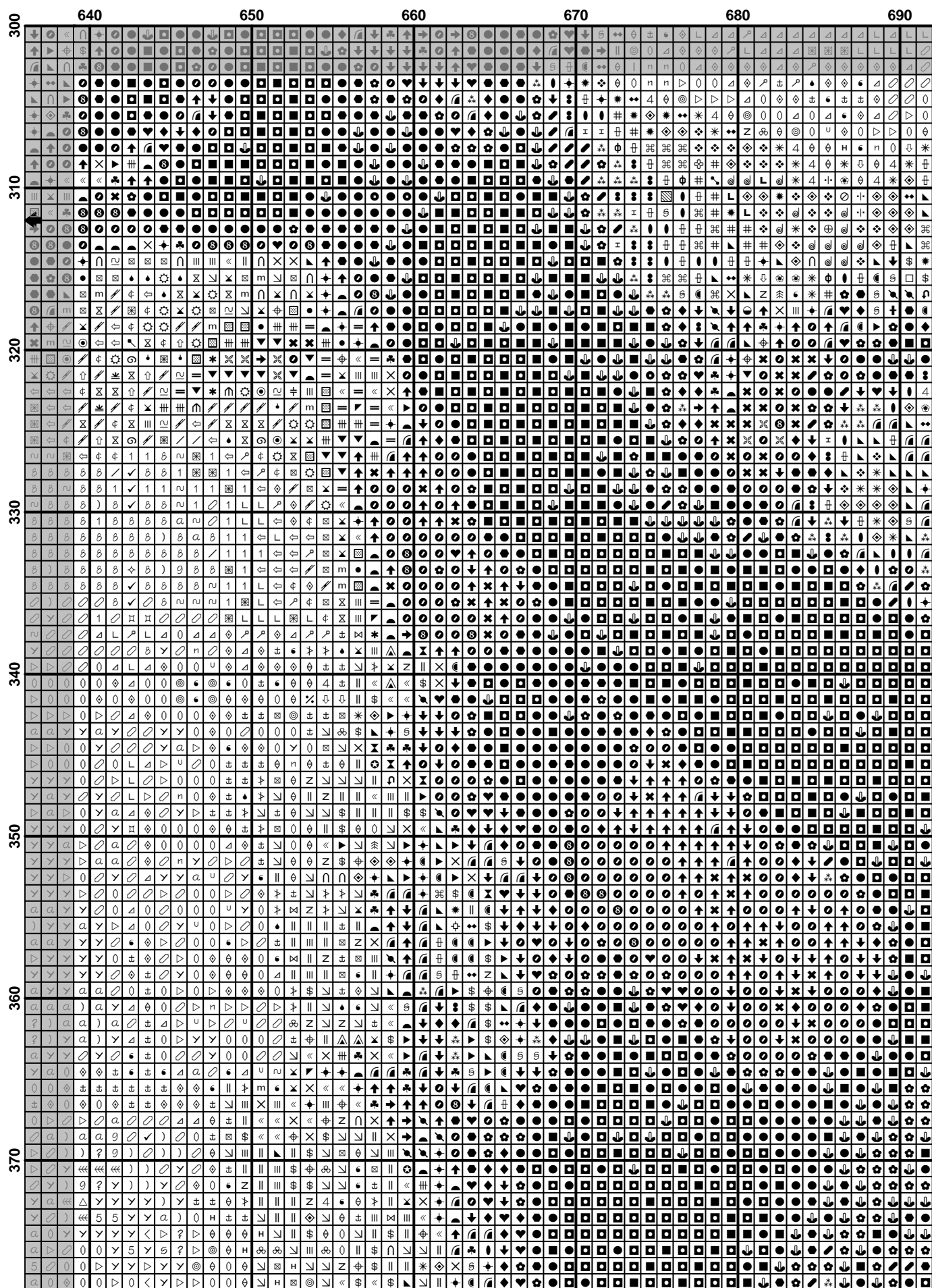
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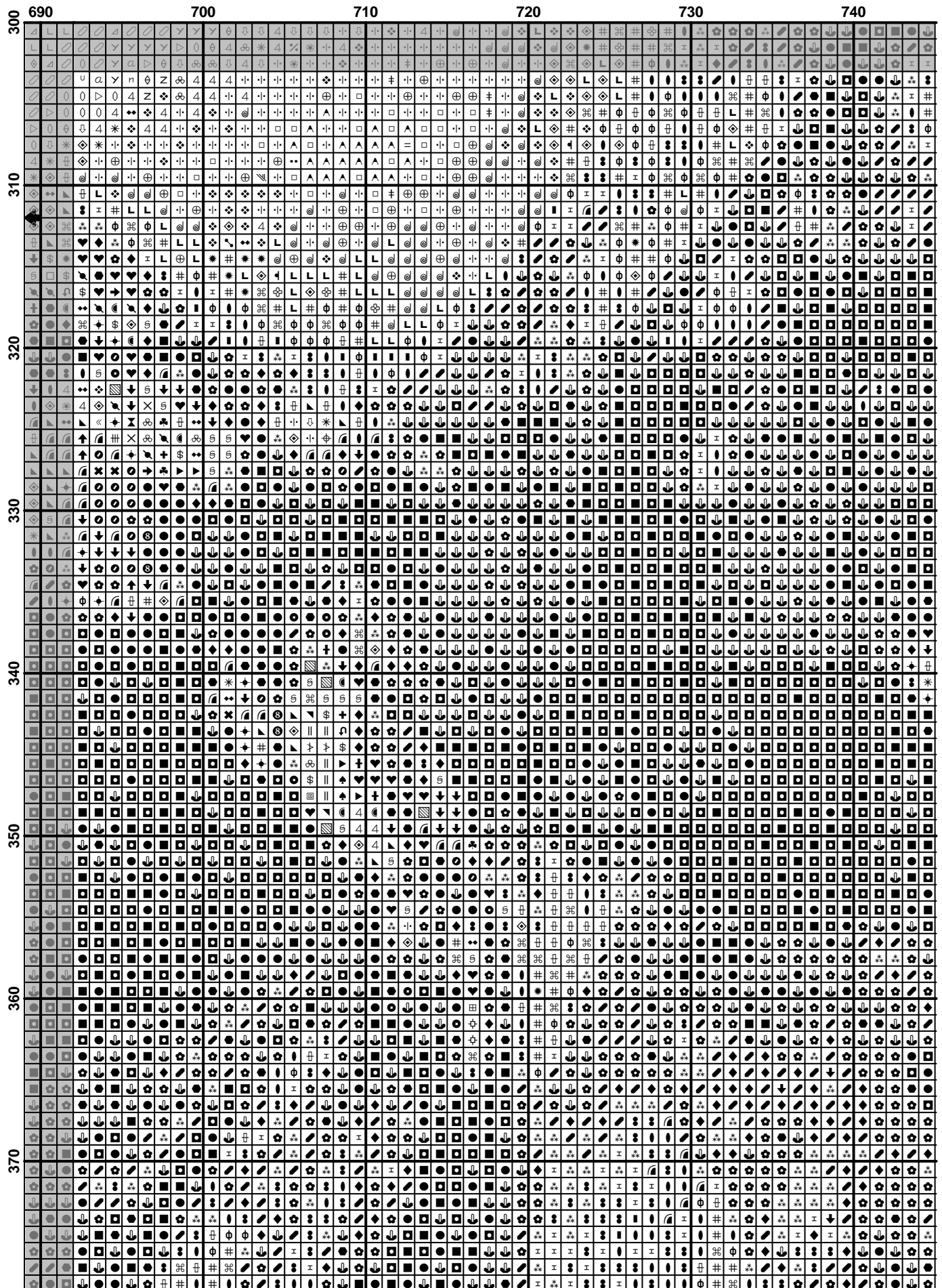


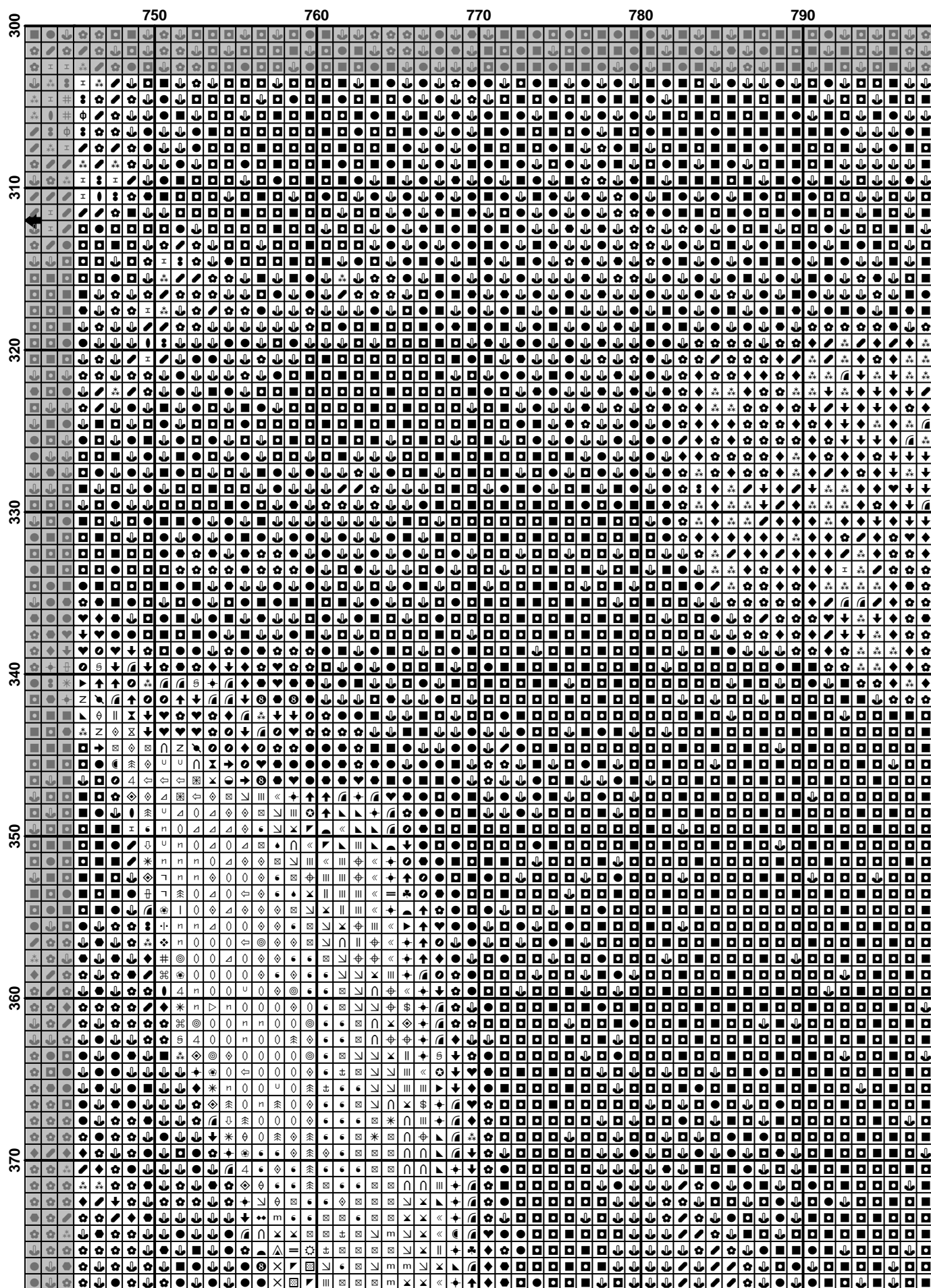
300	480	490	500	510	520	530
310	320	330	340	350	360	370
380	390	400	410	420	430	440
450	460	470	480	490	500	510
520	530	540	550	560	570	580
590	600	610	620	630	640	650
660	670	680	690	700	710	720
730	740	750	760	770	780	790
800	810	820	830	840	850	860
870	880	890	900	910	920	930
940	950	960	970	980	990	1000

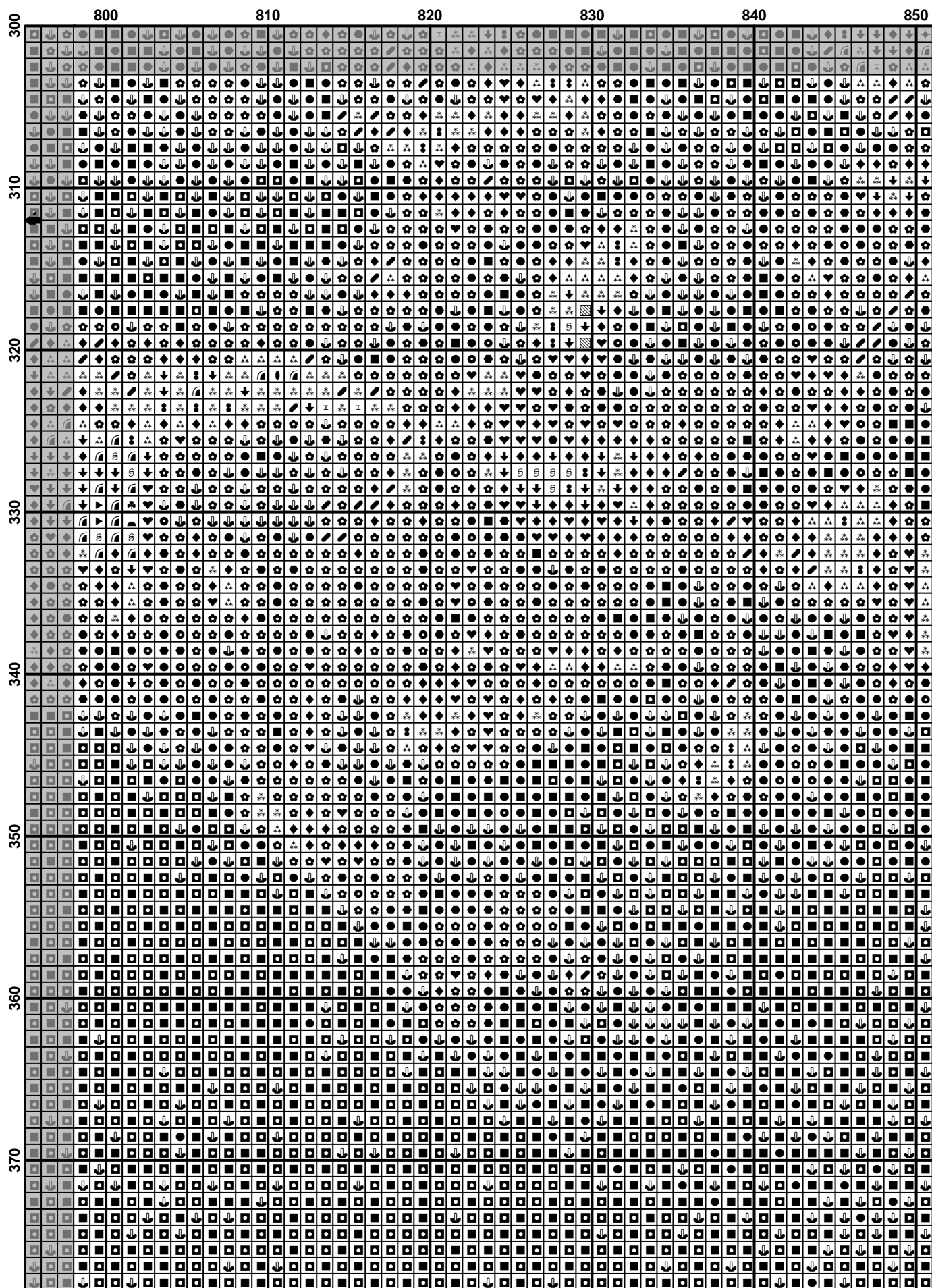
	530	540	550	560	570	580
300
310
320
330
340
350
360
370

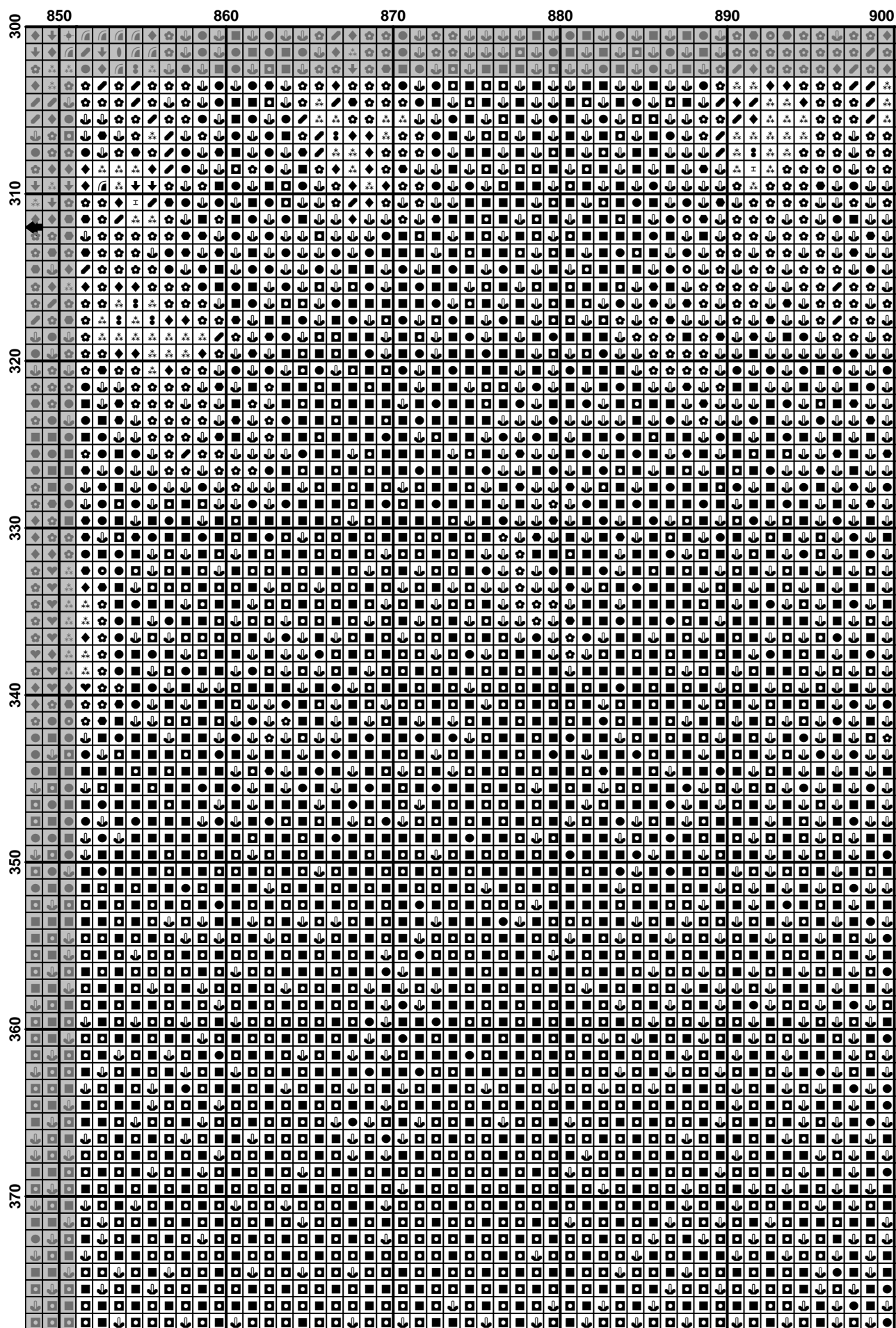
300	590	600	610	620	630
310					
320					
330					
340					
350					
360					
370					

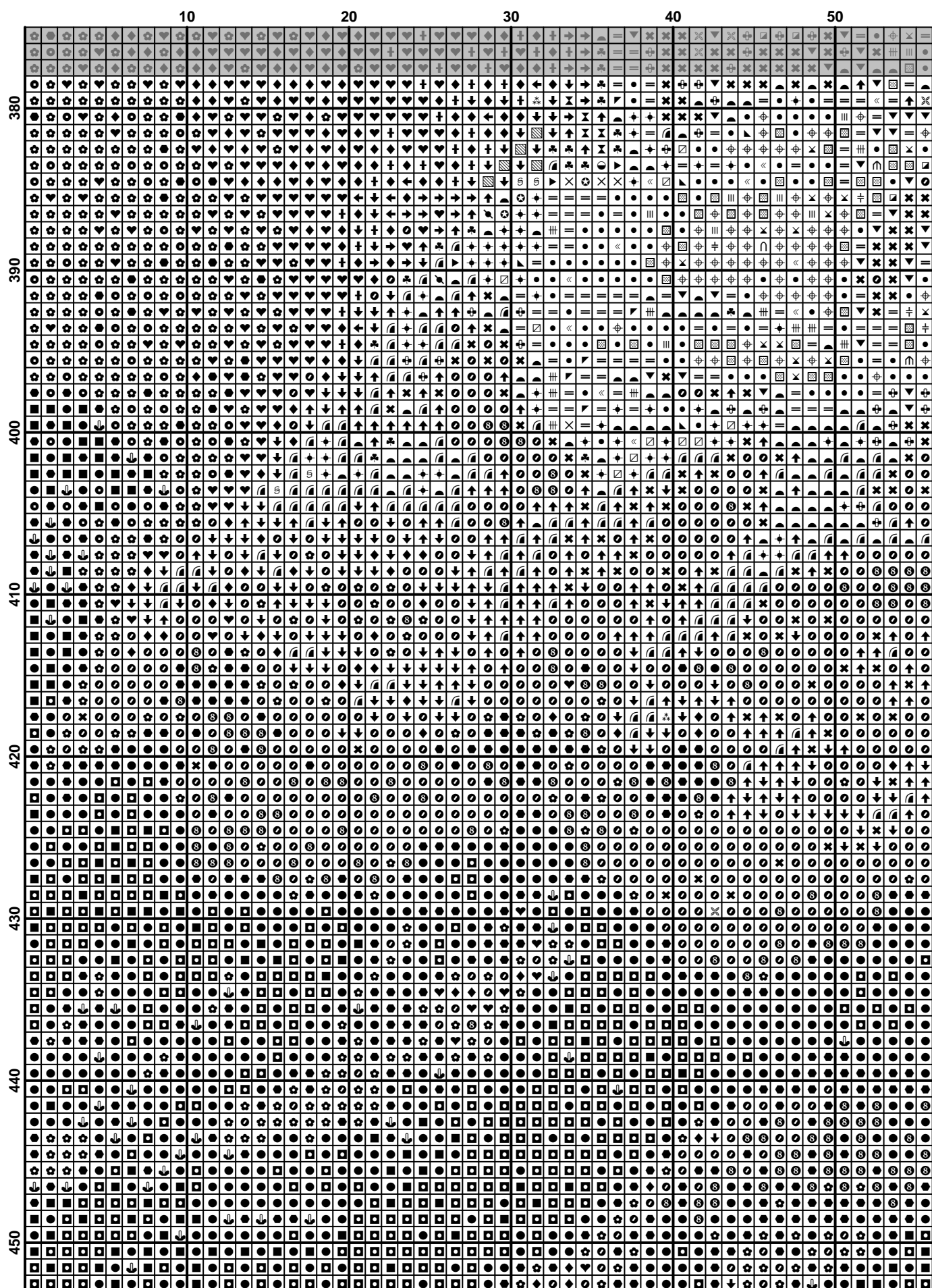


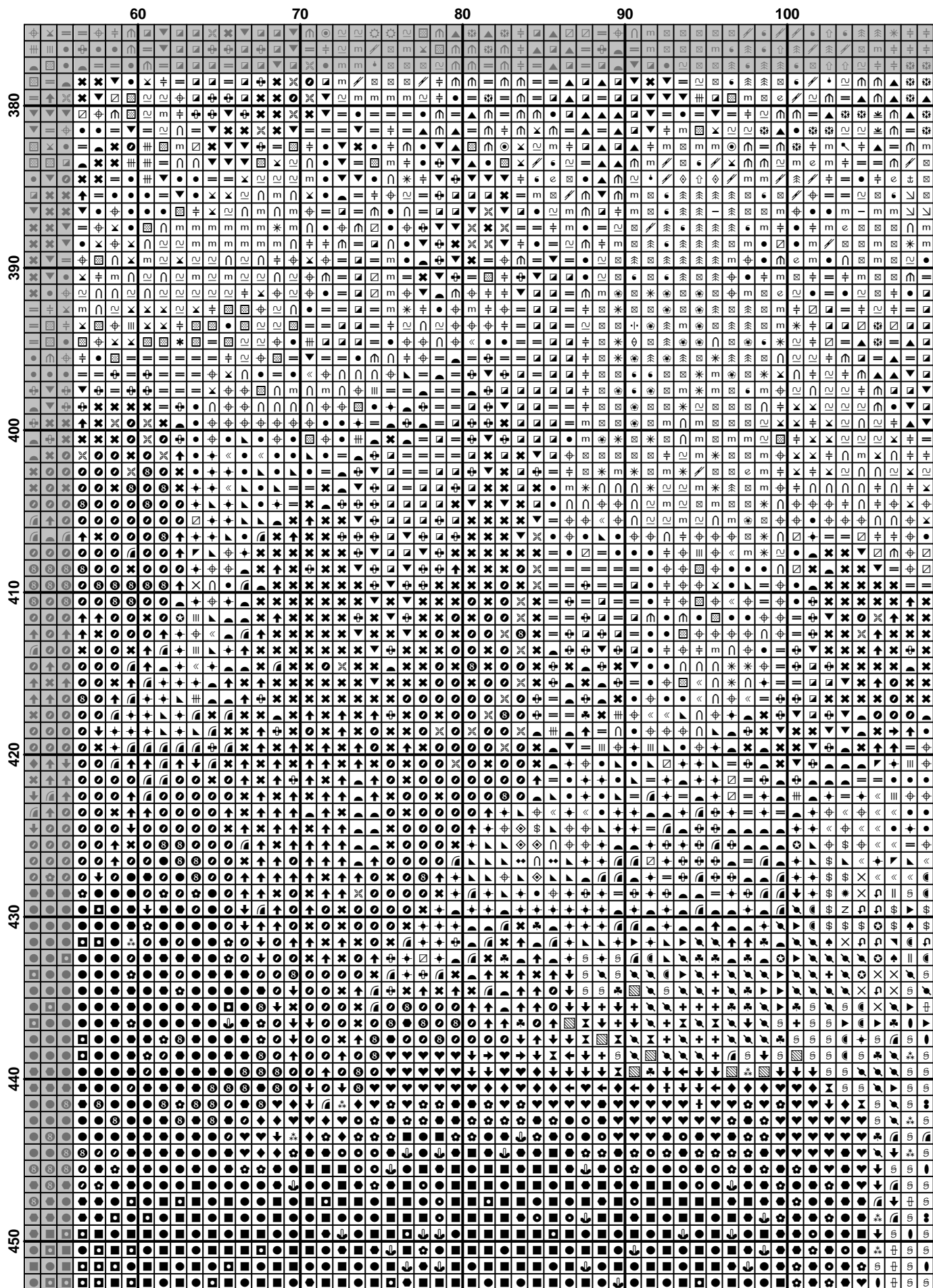












	110	120	130	140	150	160
380
390
400
410
420
430
440
450

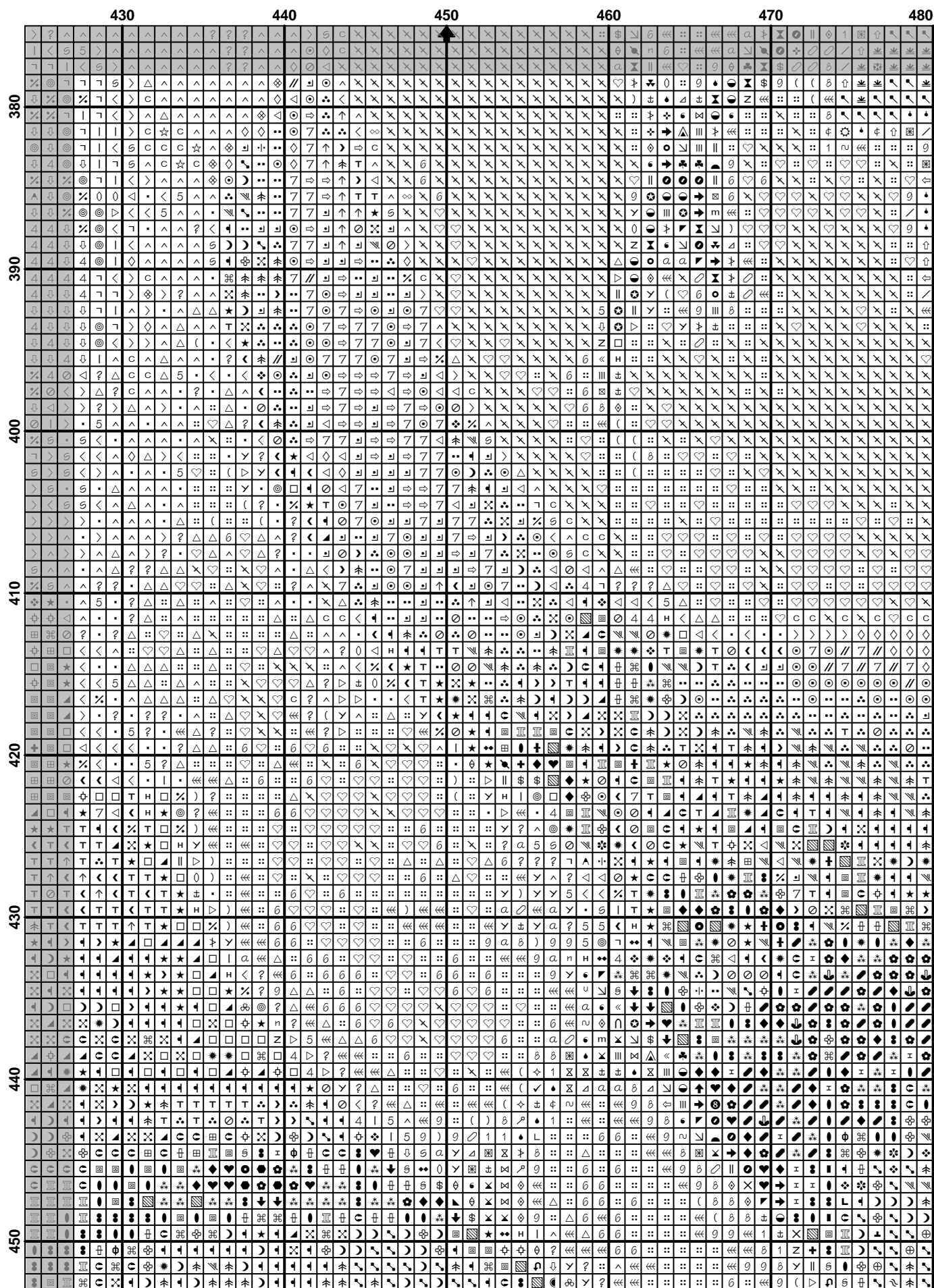
	160	170	180	190	200	210
380
390
400
410
420
430
440
450

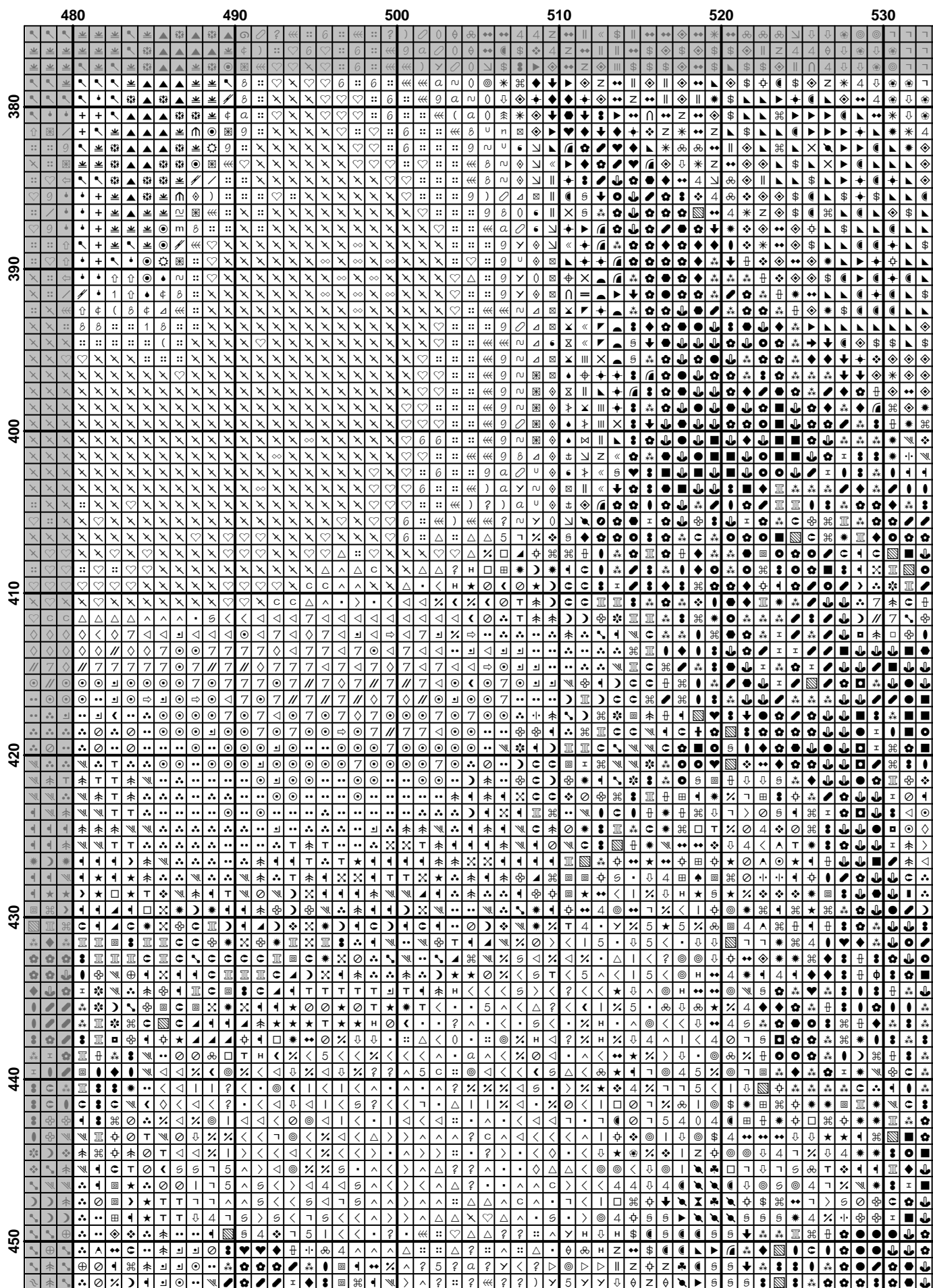
$$(107) \quad \text{[The rest of the page content is missing from the provided image, so the equation itself is not transcribed.]}$$

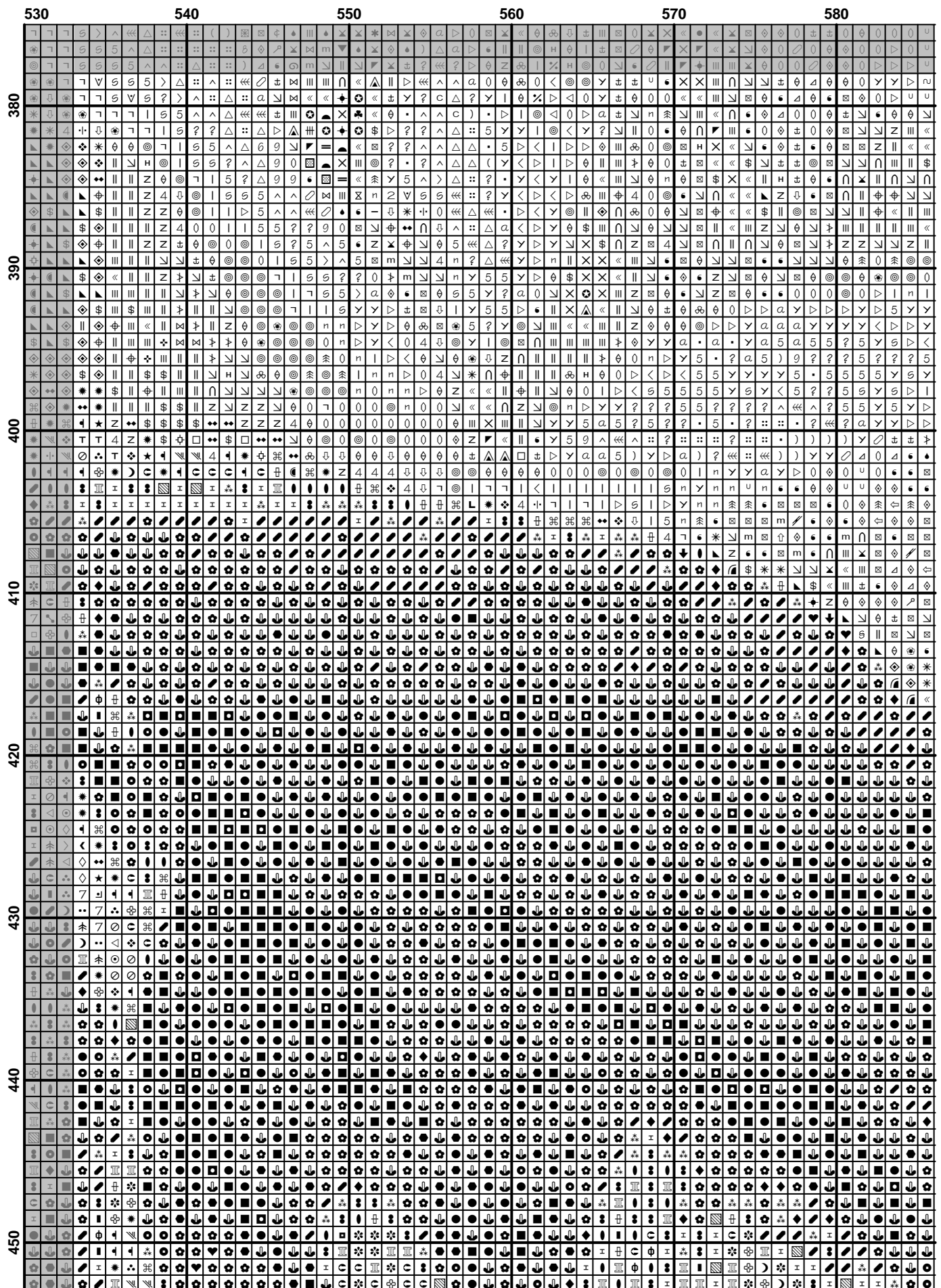
	270	280	290	300	310	320
380
390
400
410
420
430
440
450

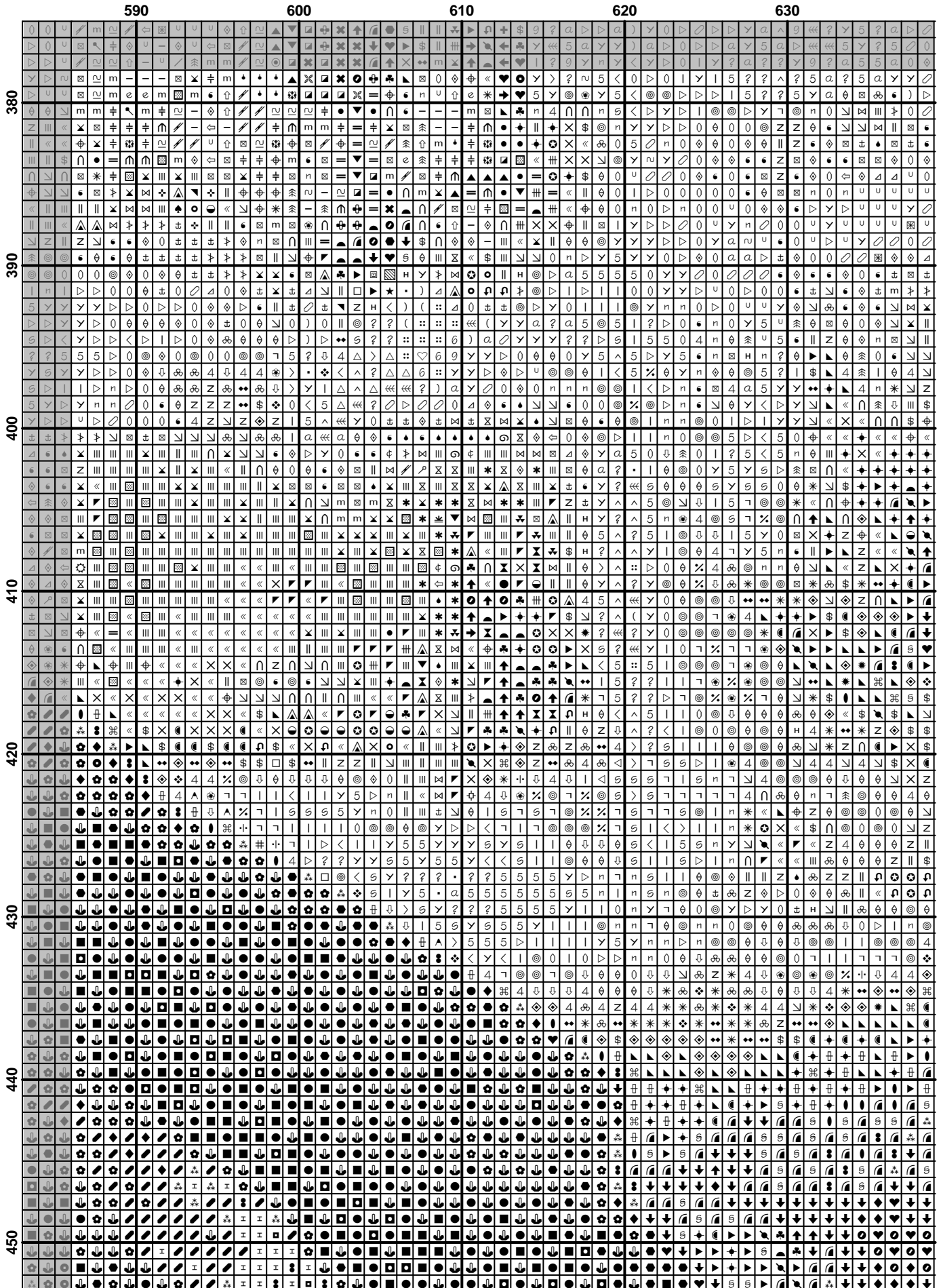
(109) (110)

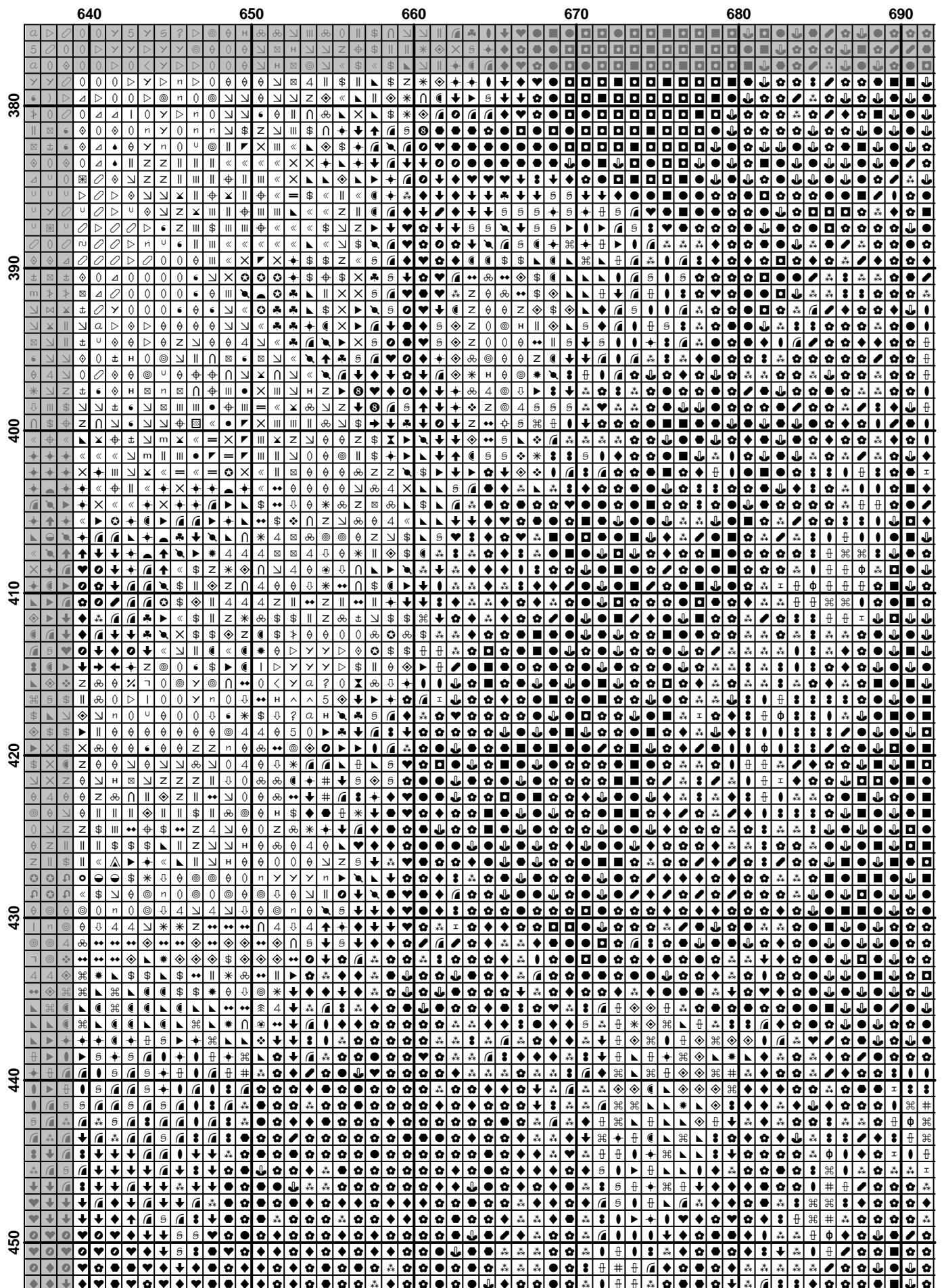
(110) (111)

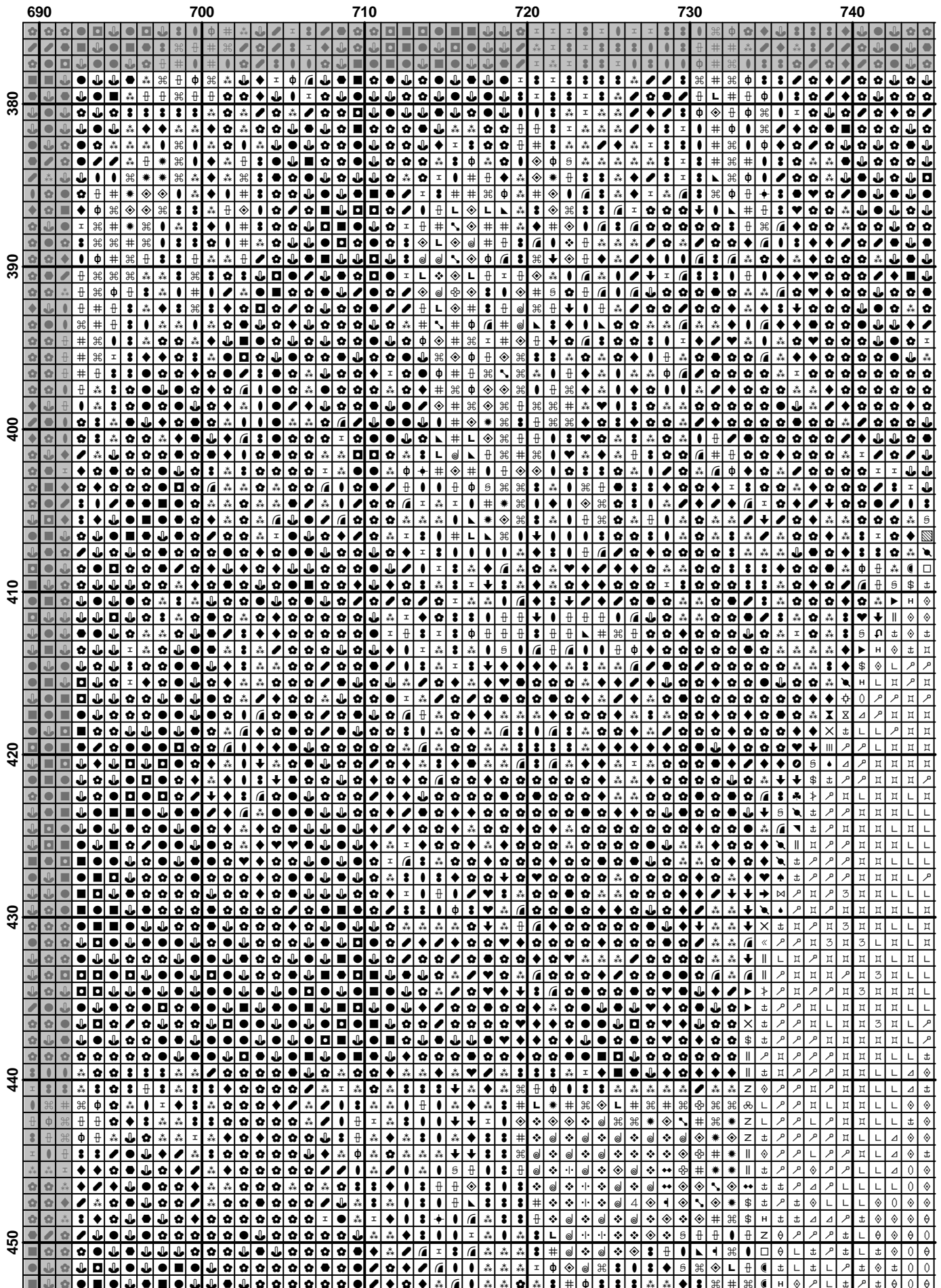


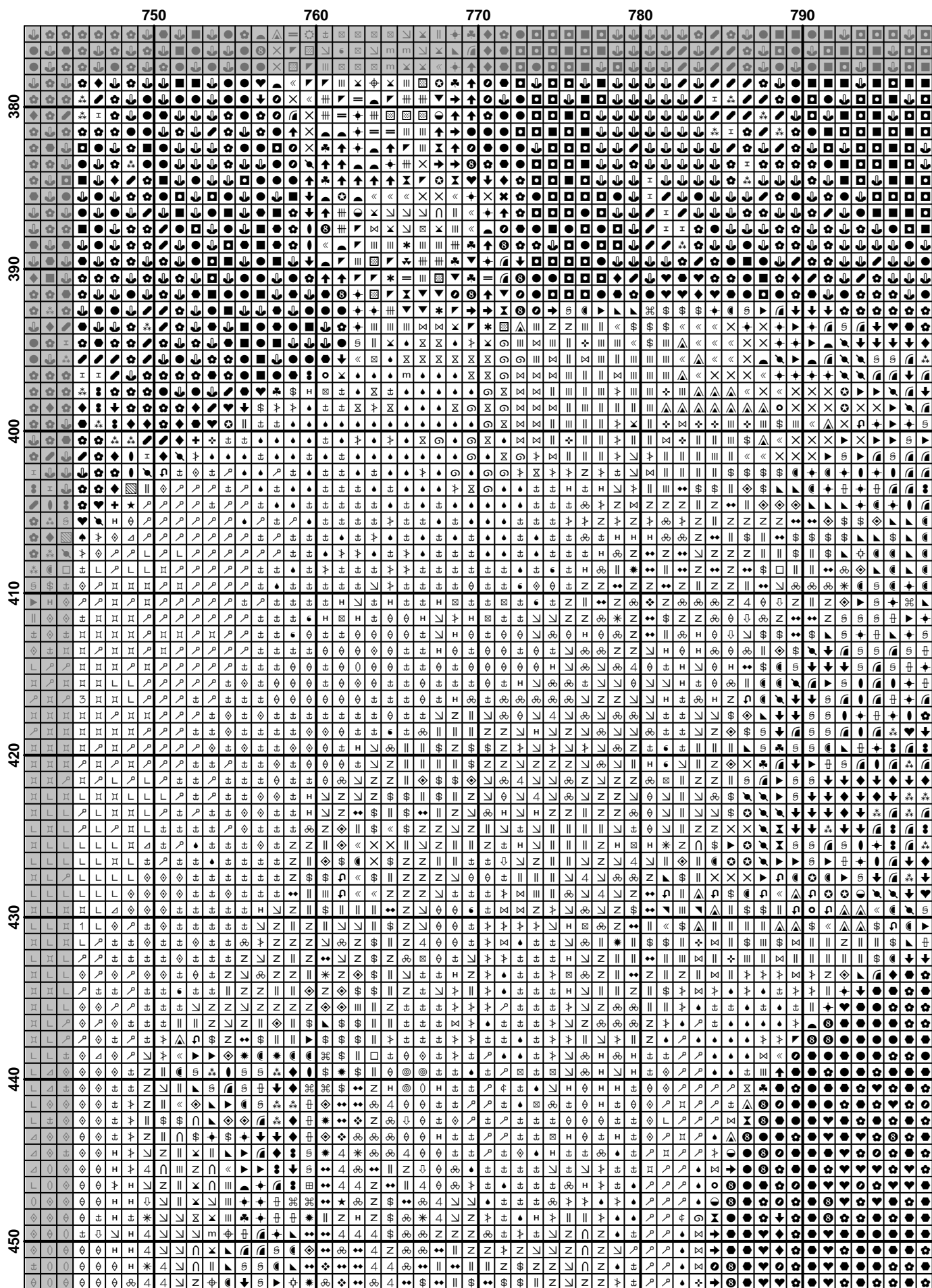


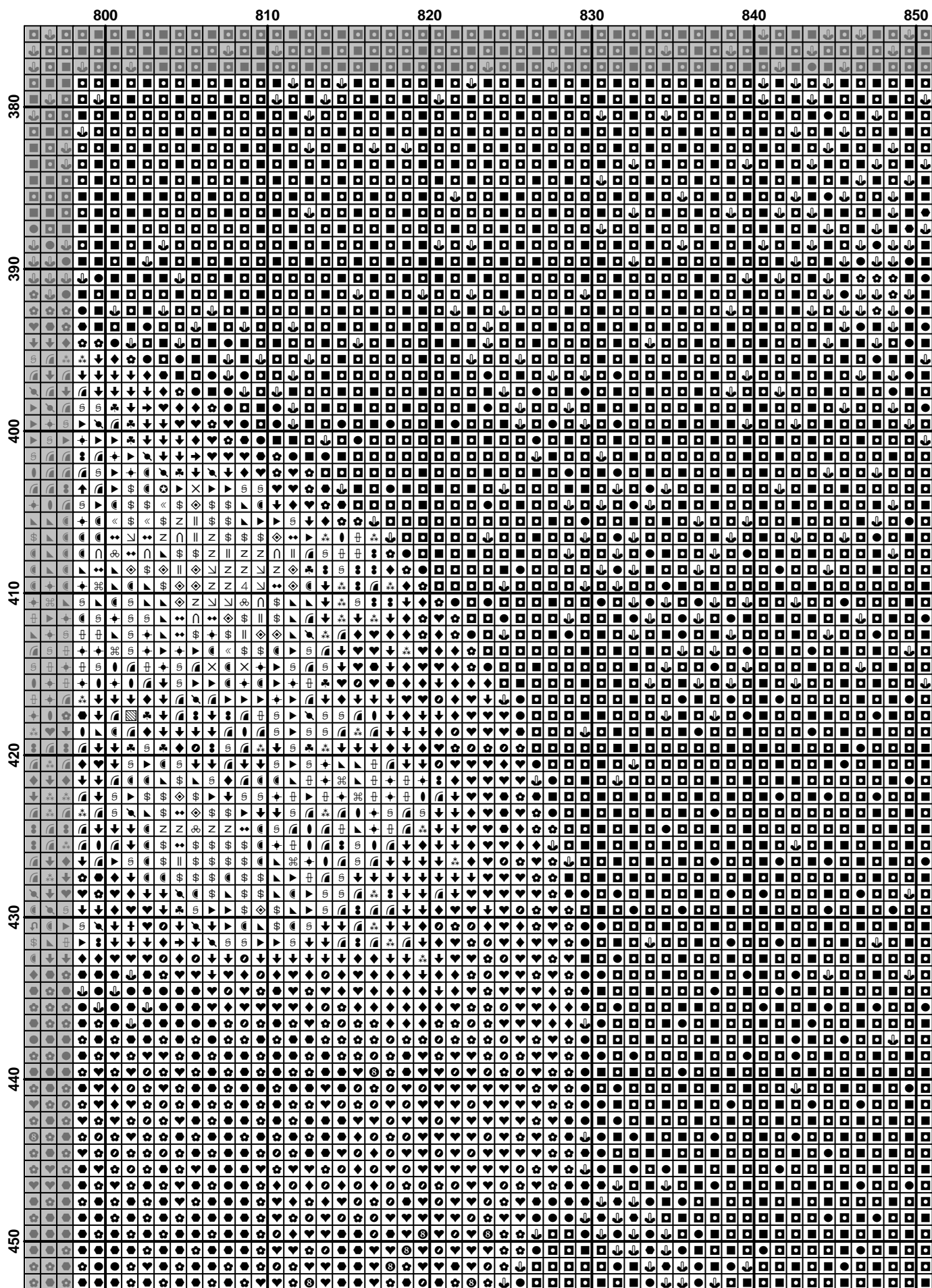


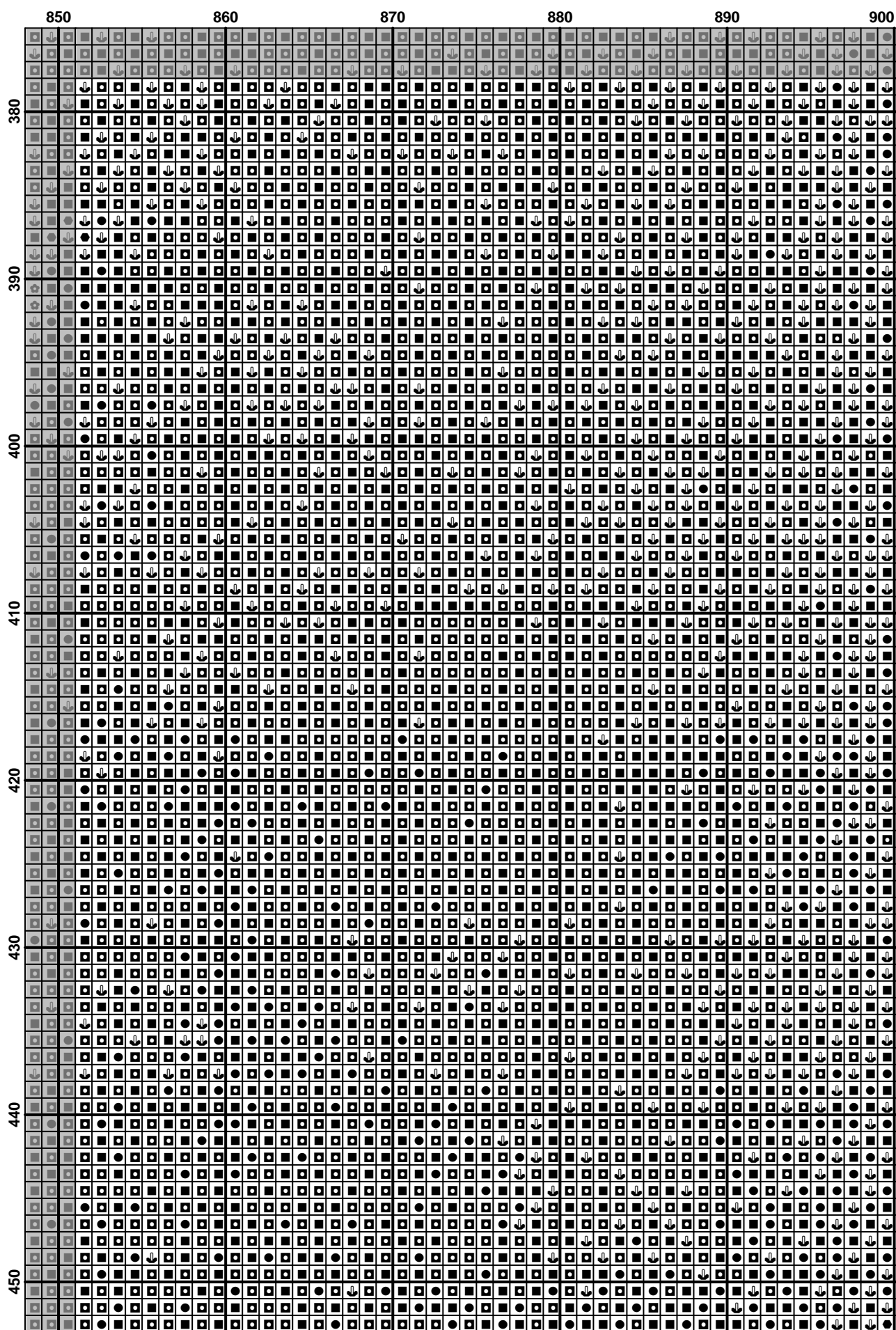


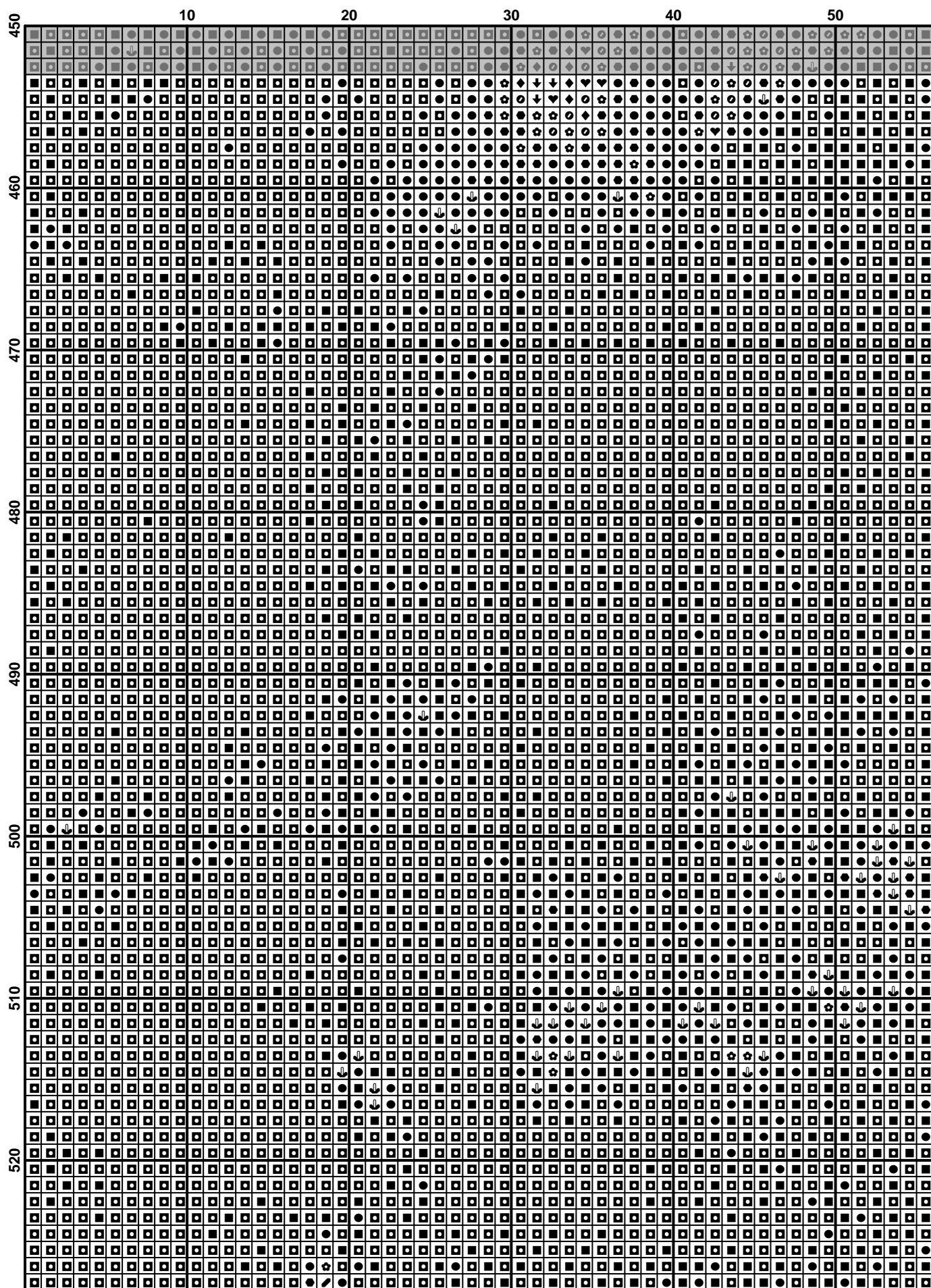




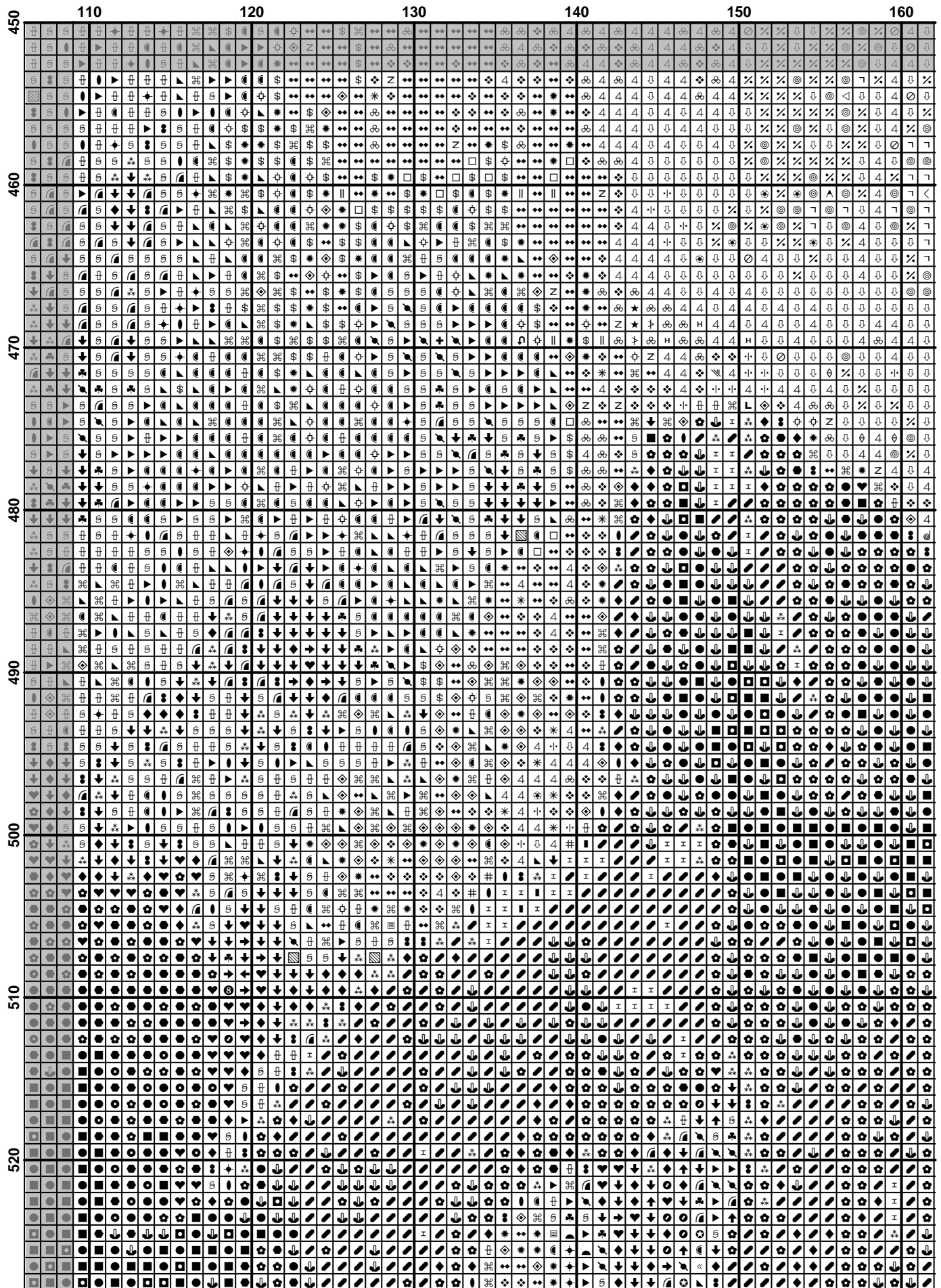










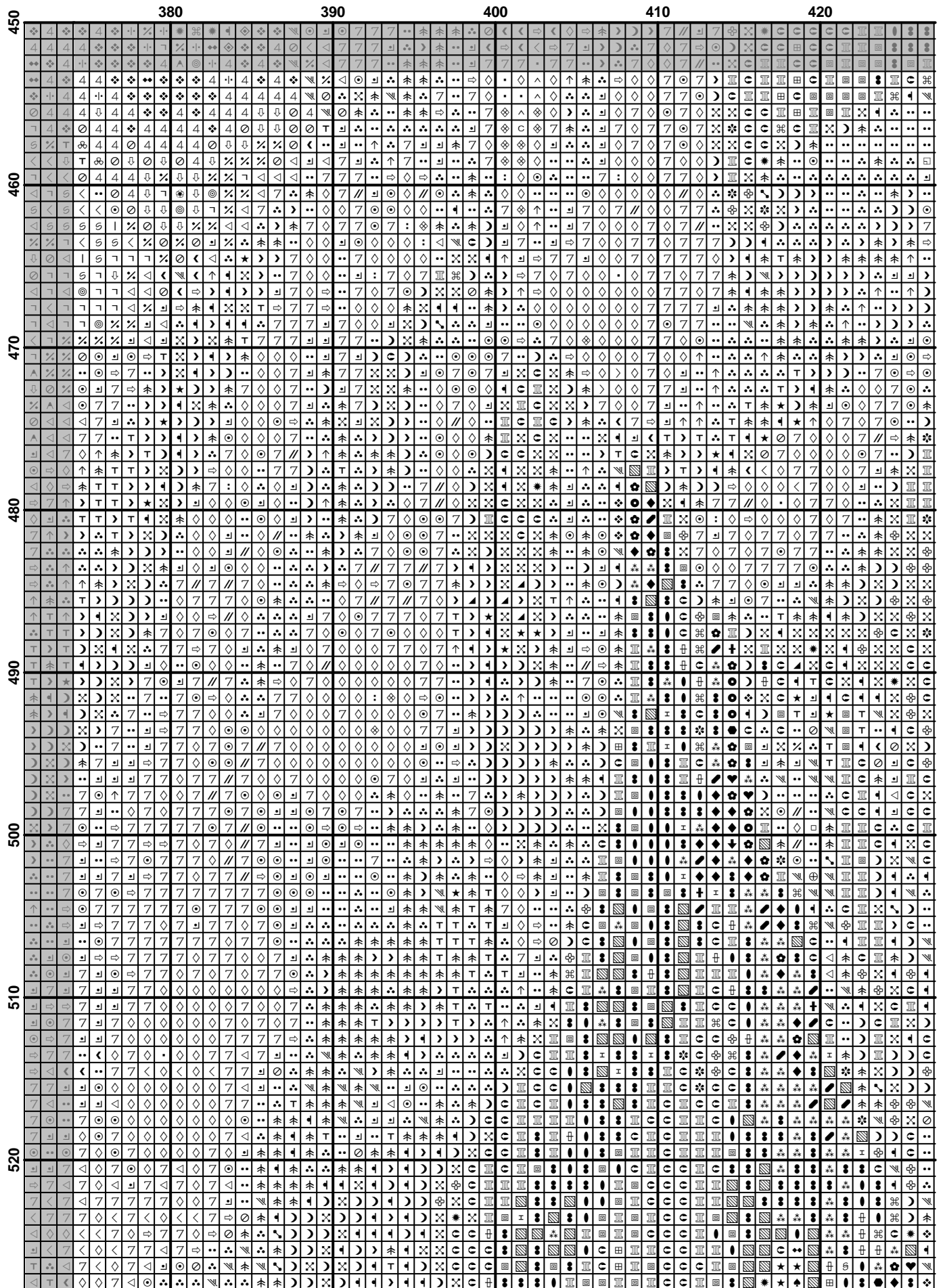


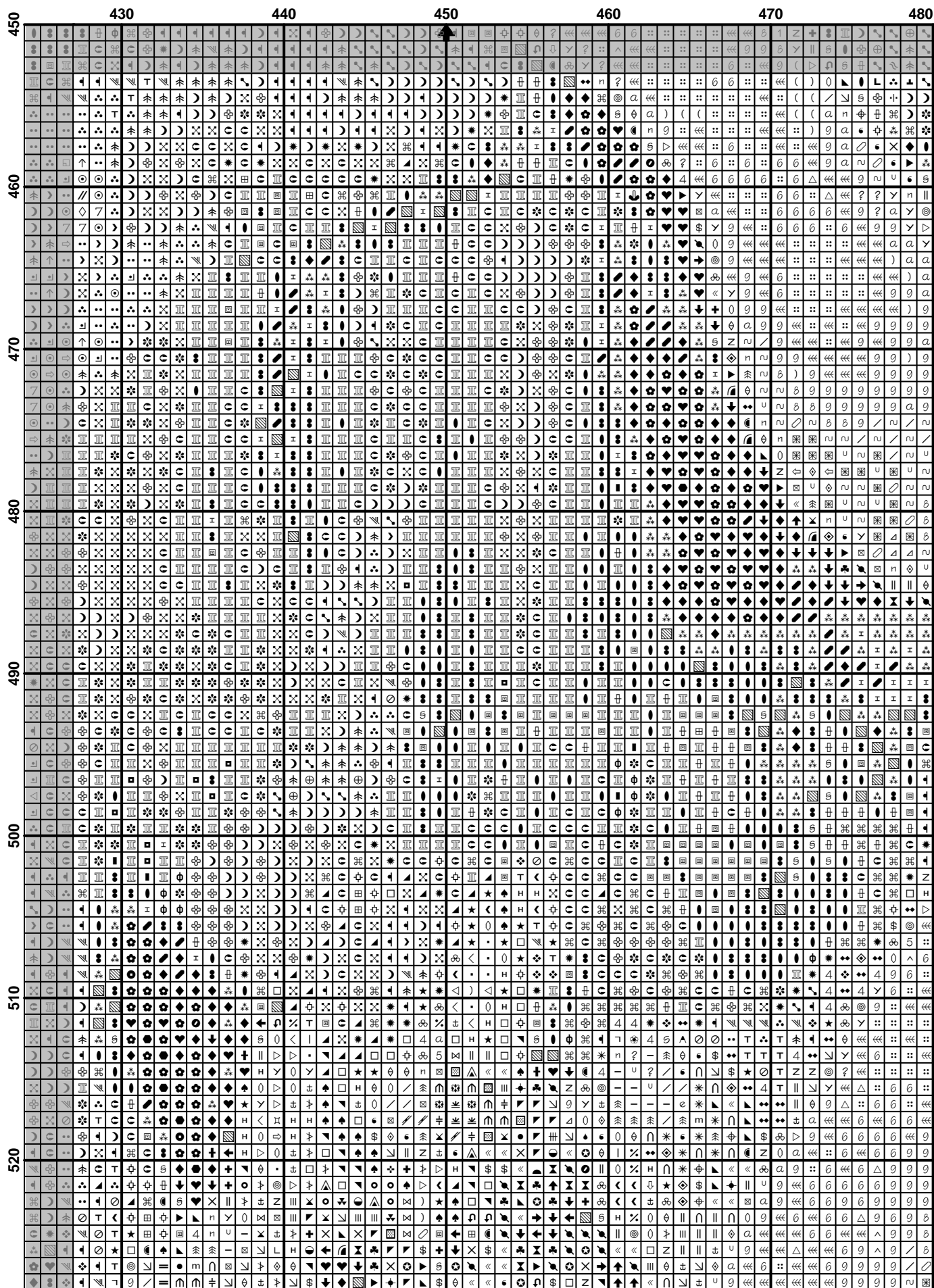
(124)

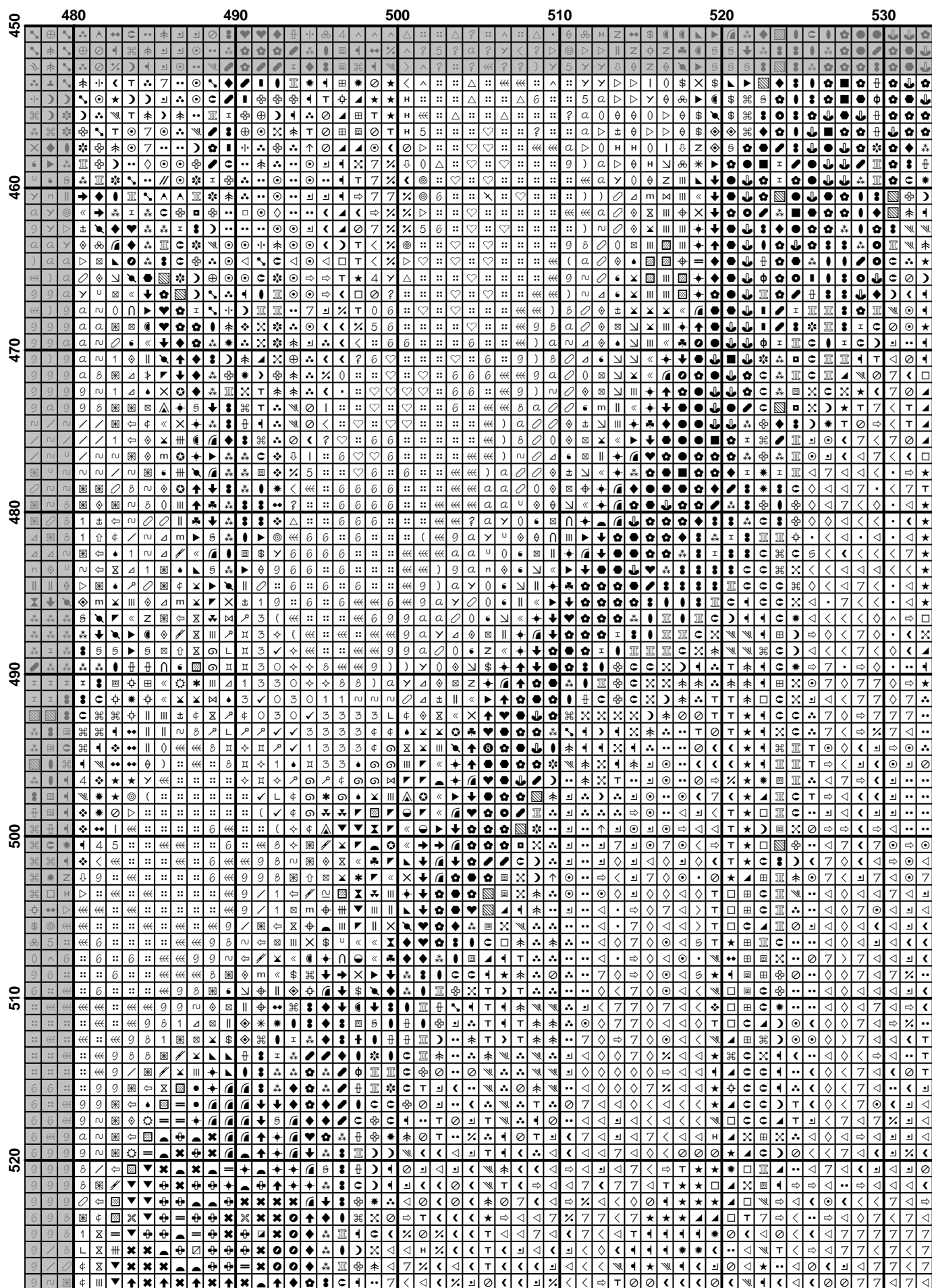
$$(124) \quad \text{[The } \langle \text{N} \rangle \text{ is a } \langle \text{N} \rangle \text{]} \text{ is a } \langle \text{N} \rangle \text{.}$$

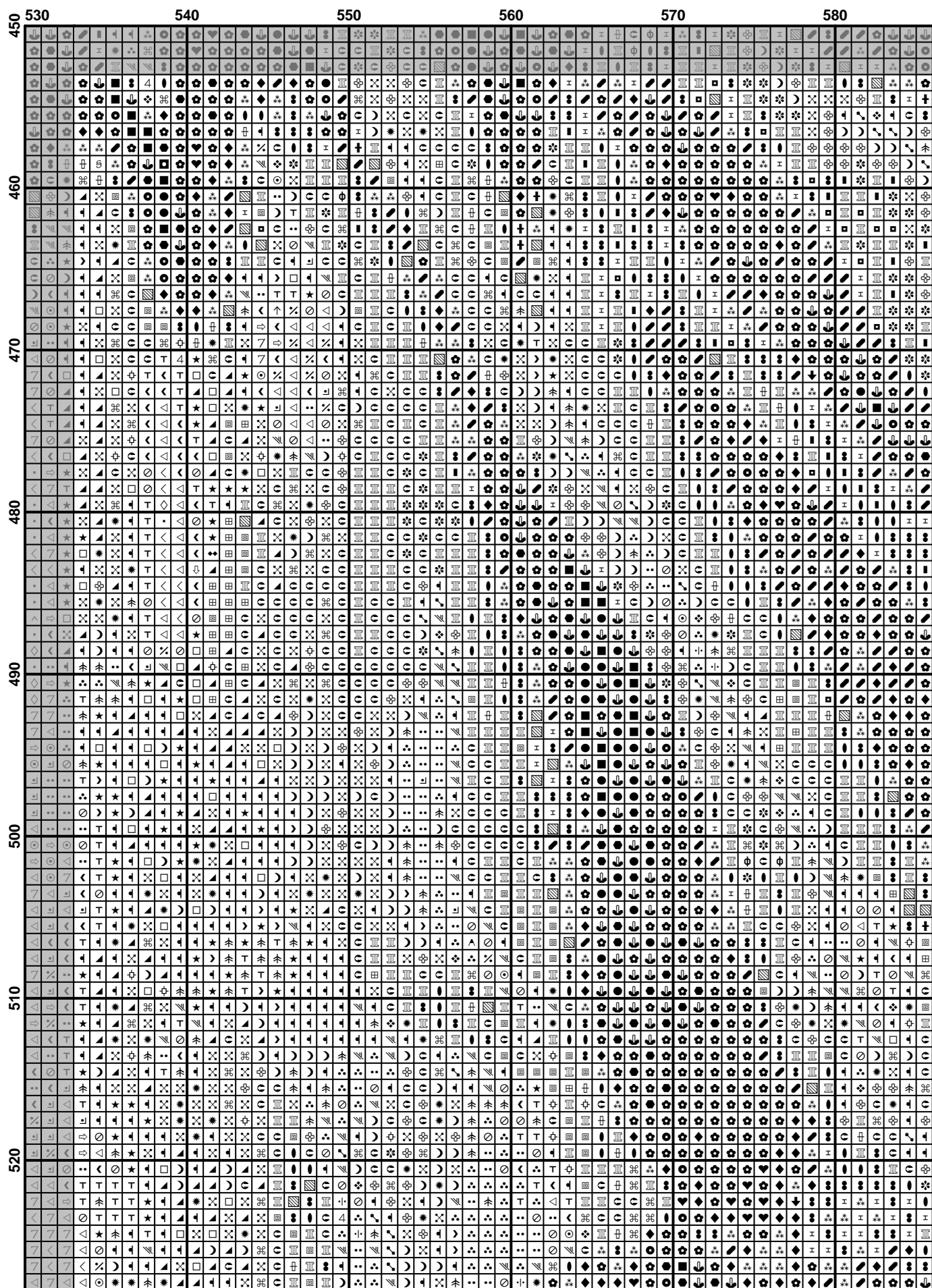
(126)

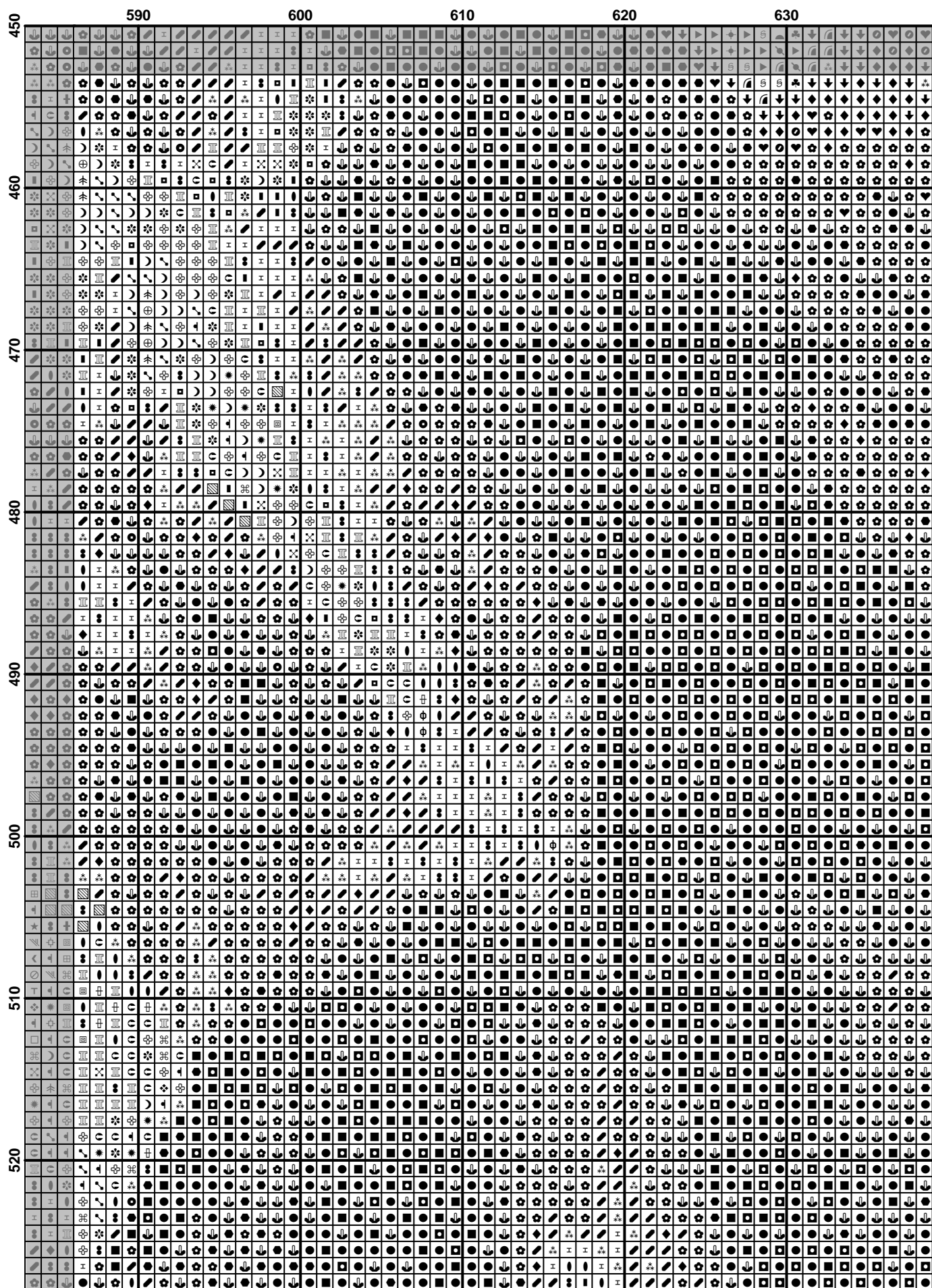
(127)

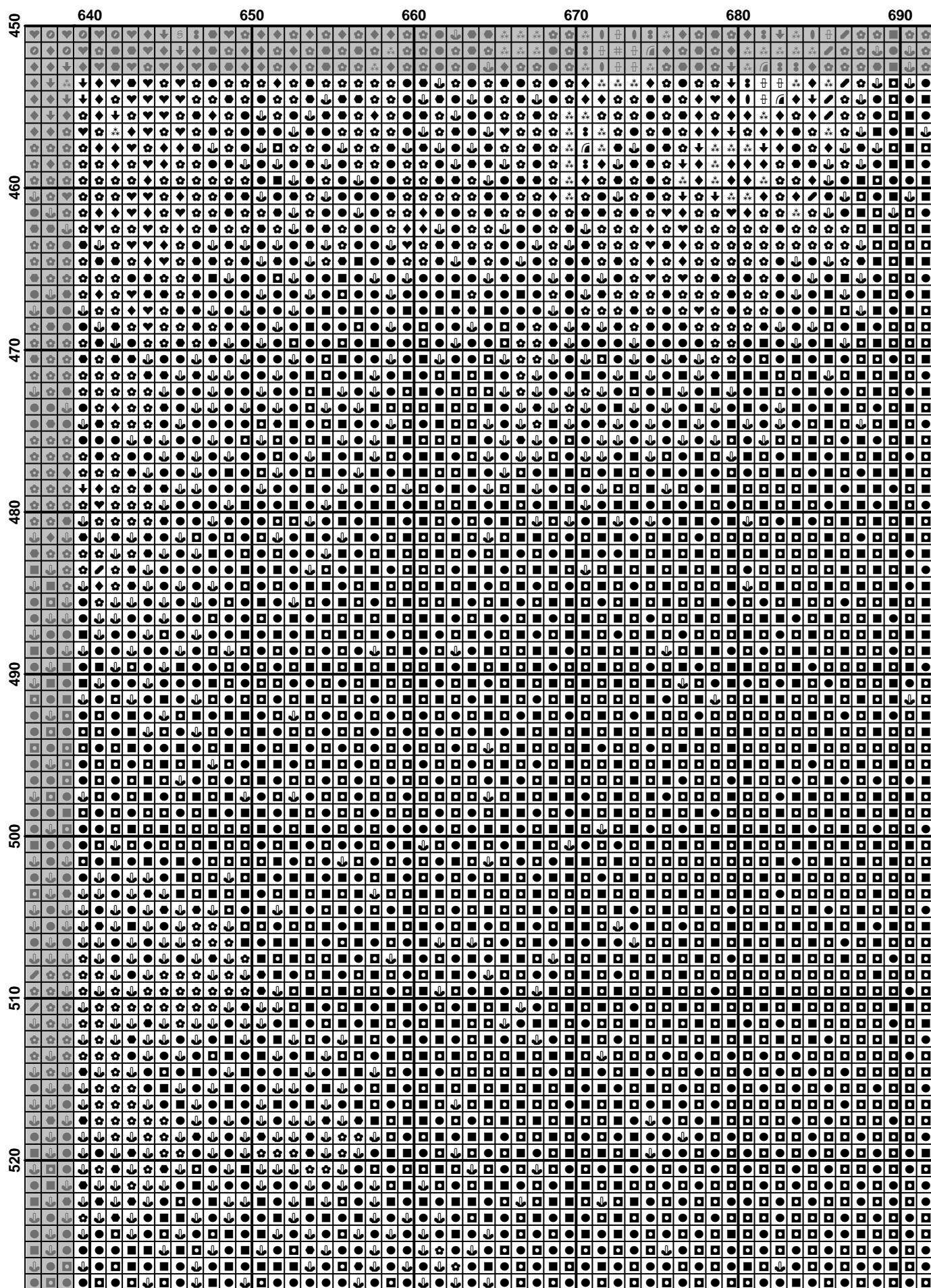


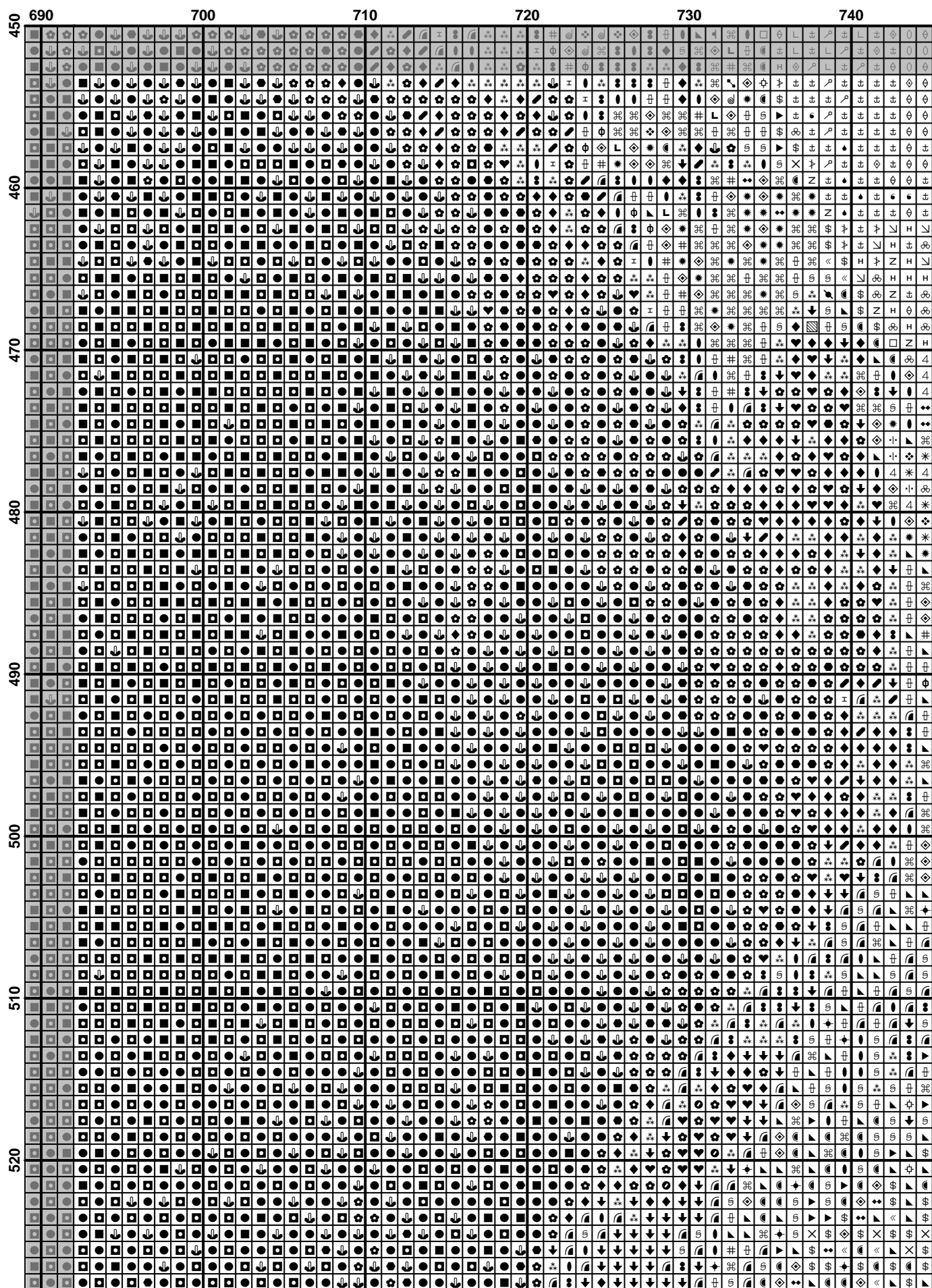


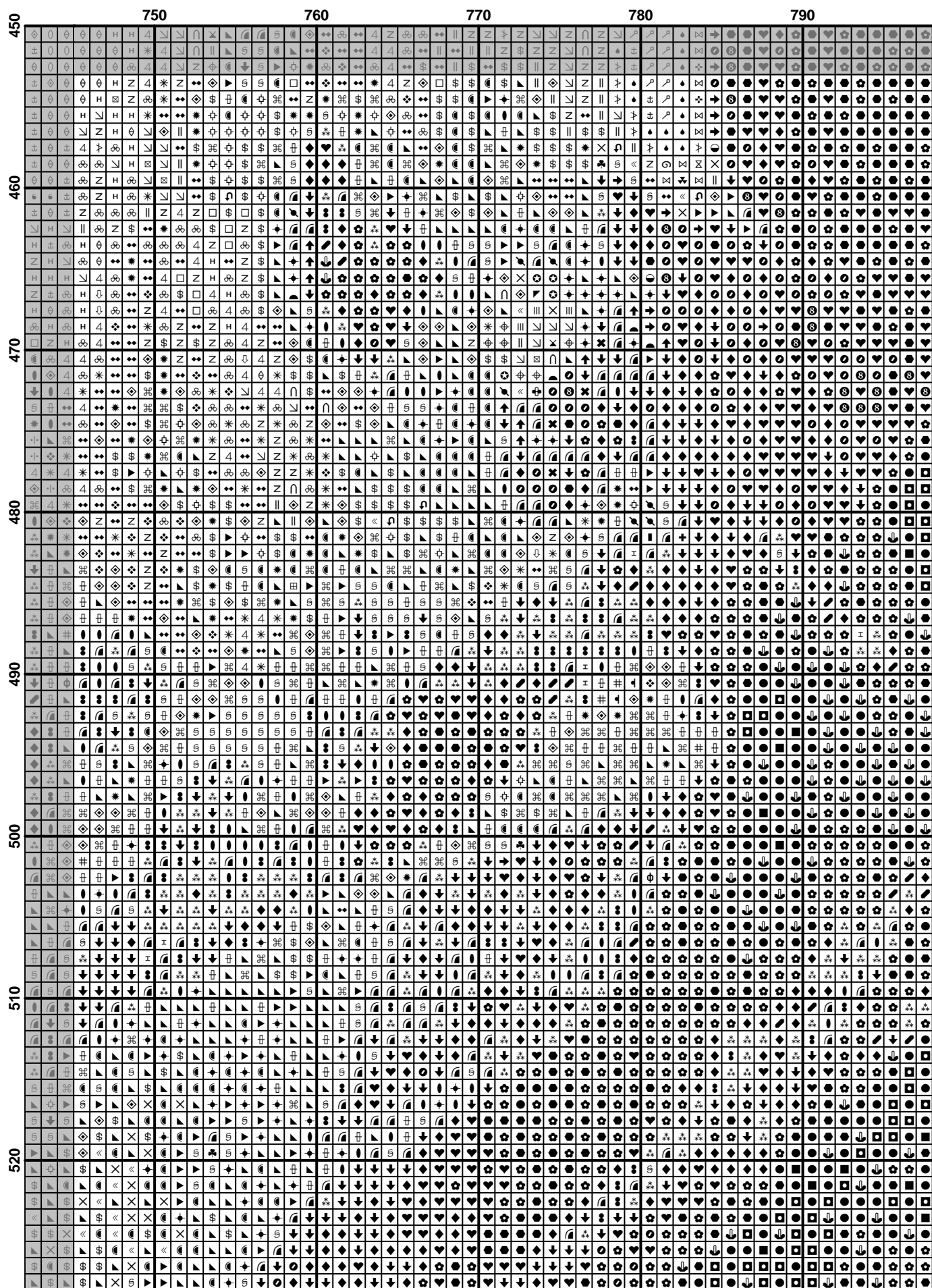


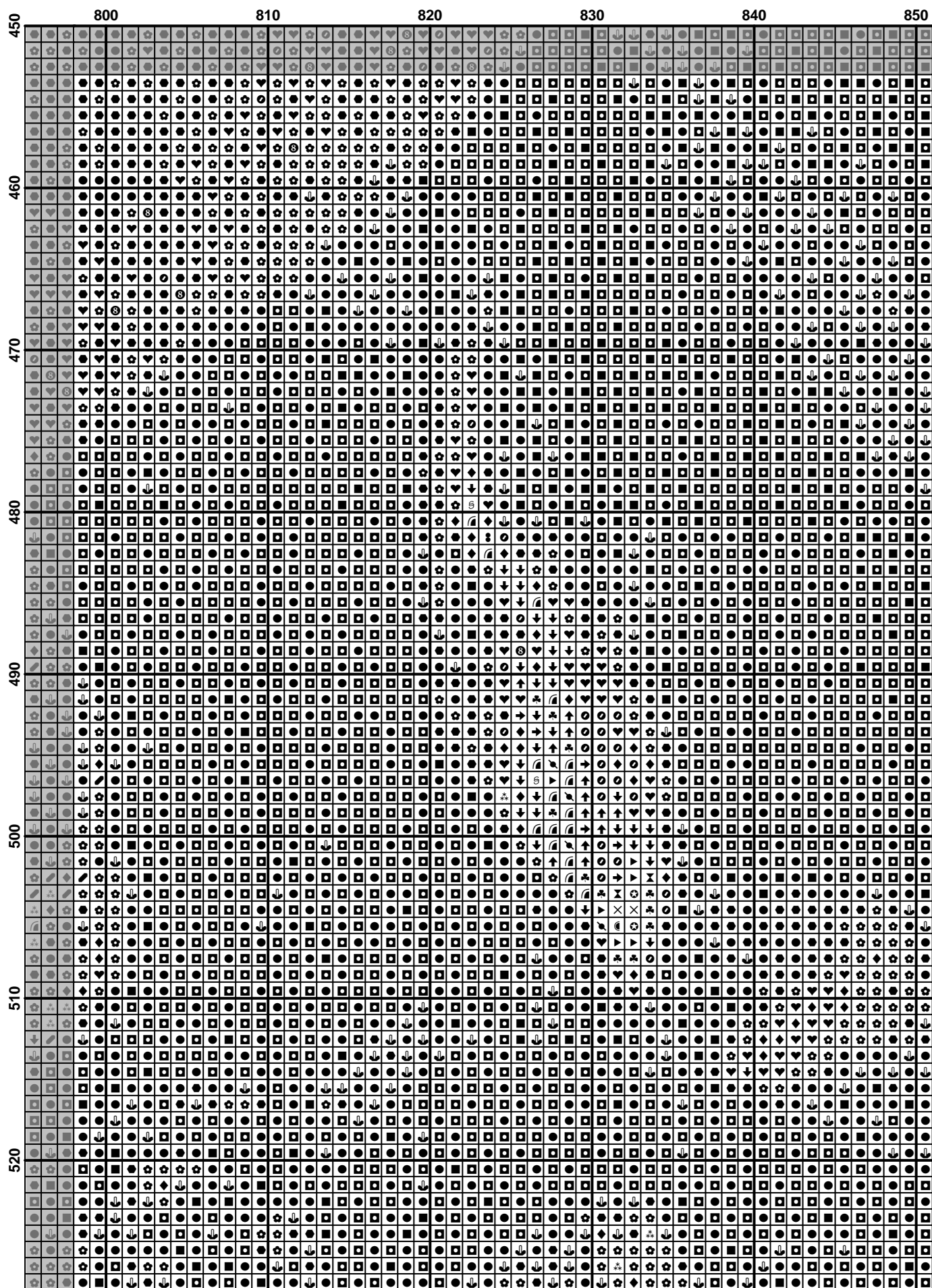


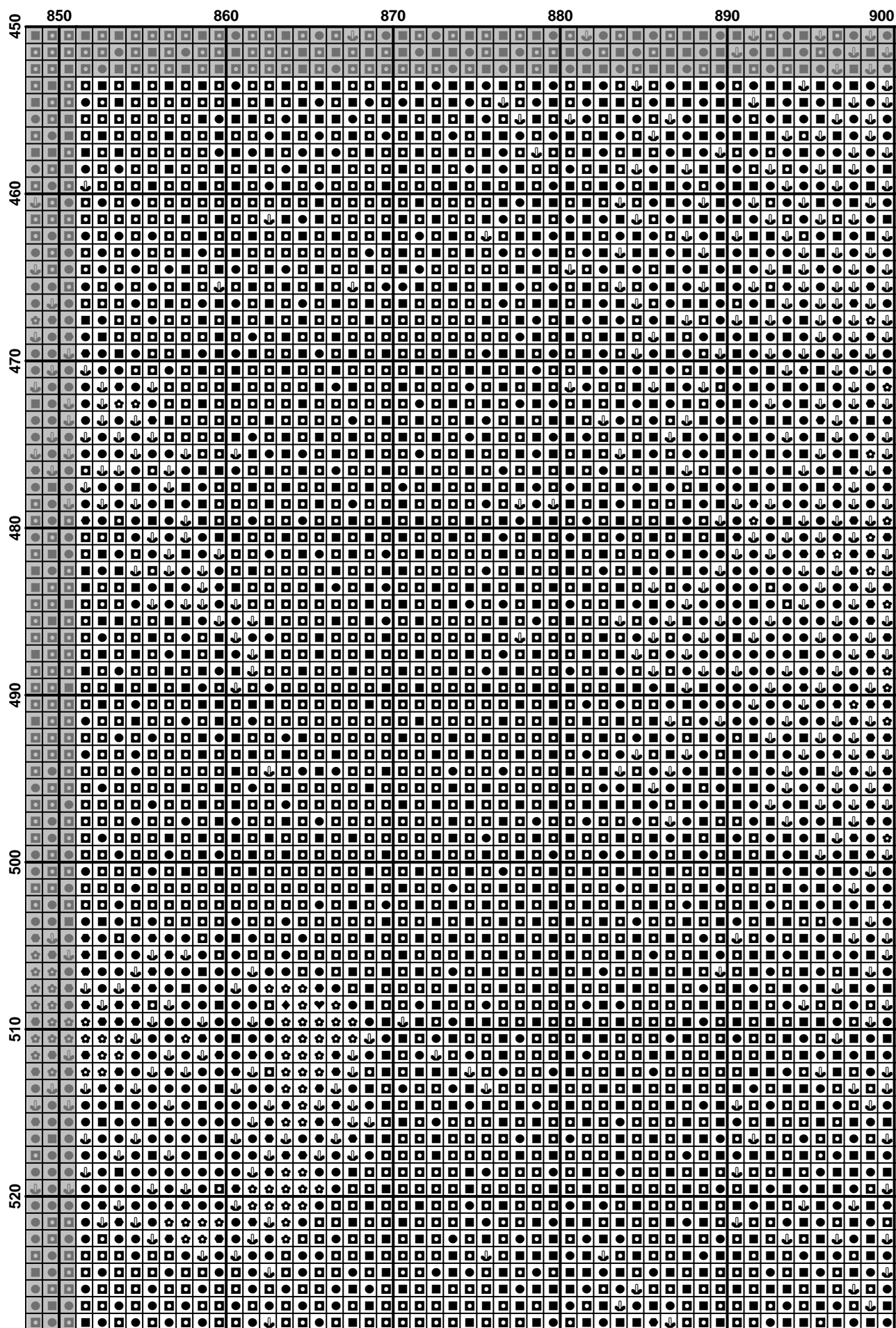


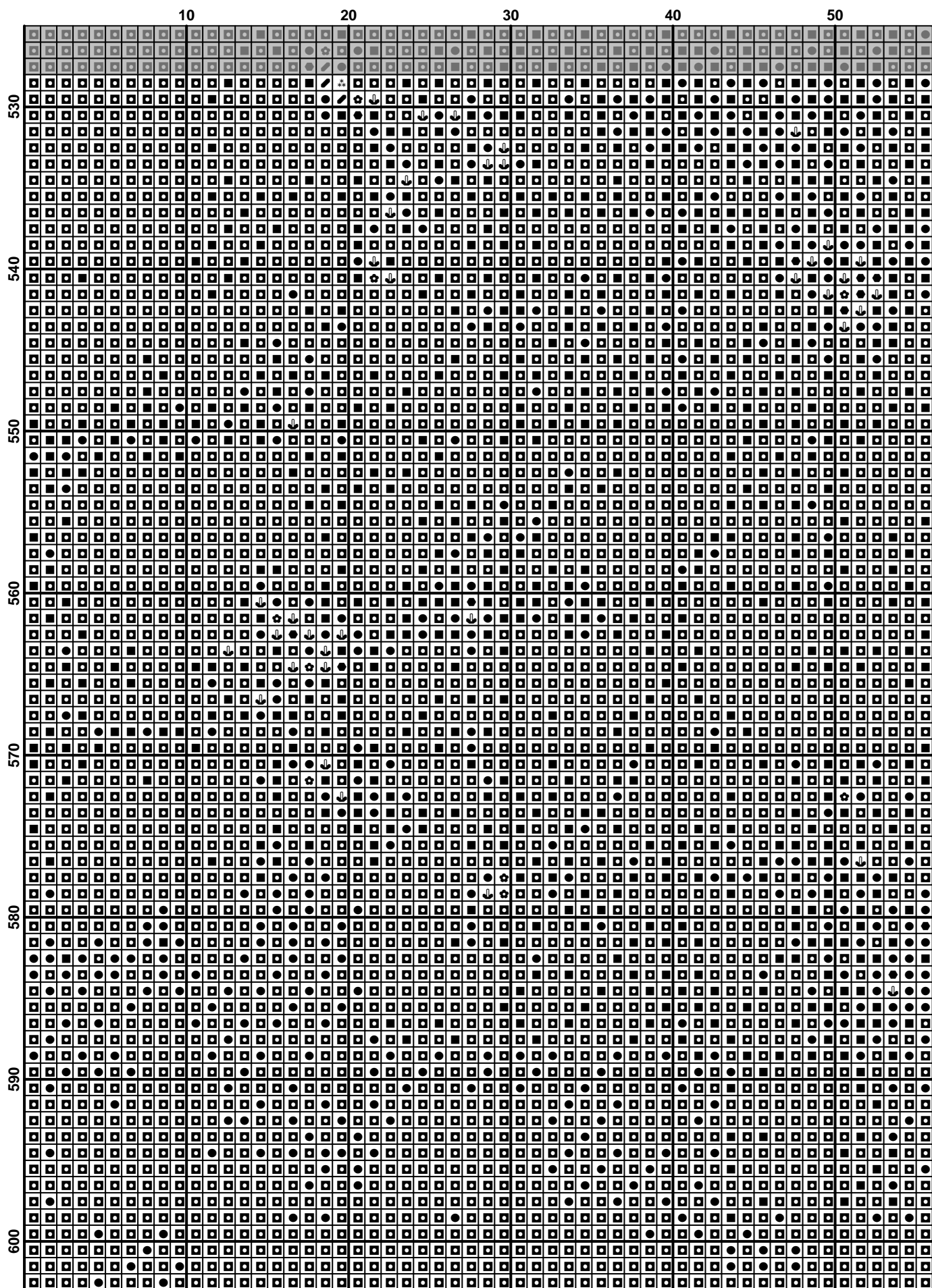


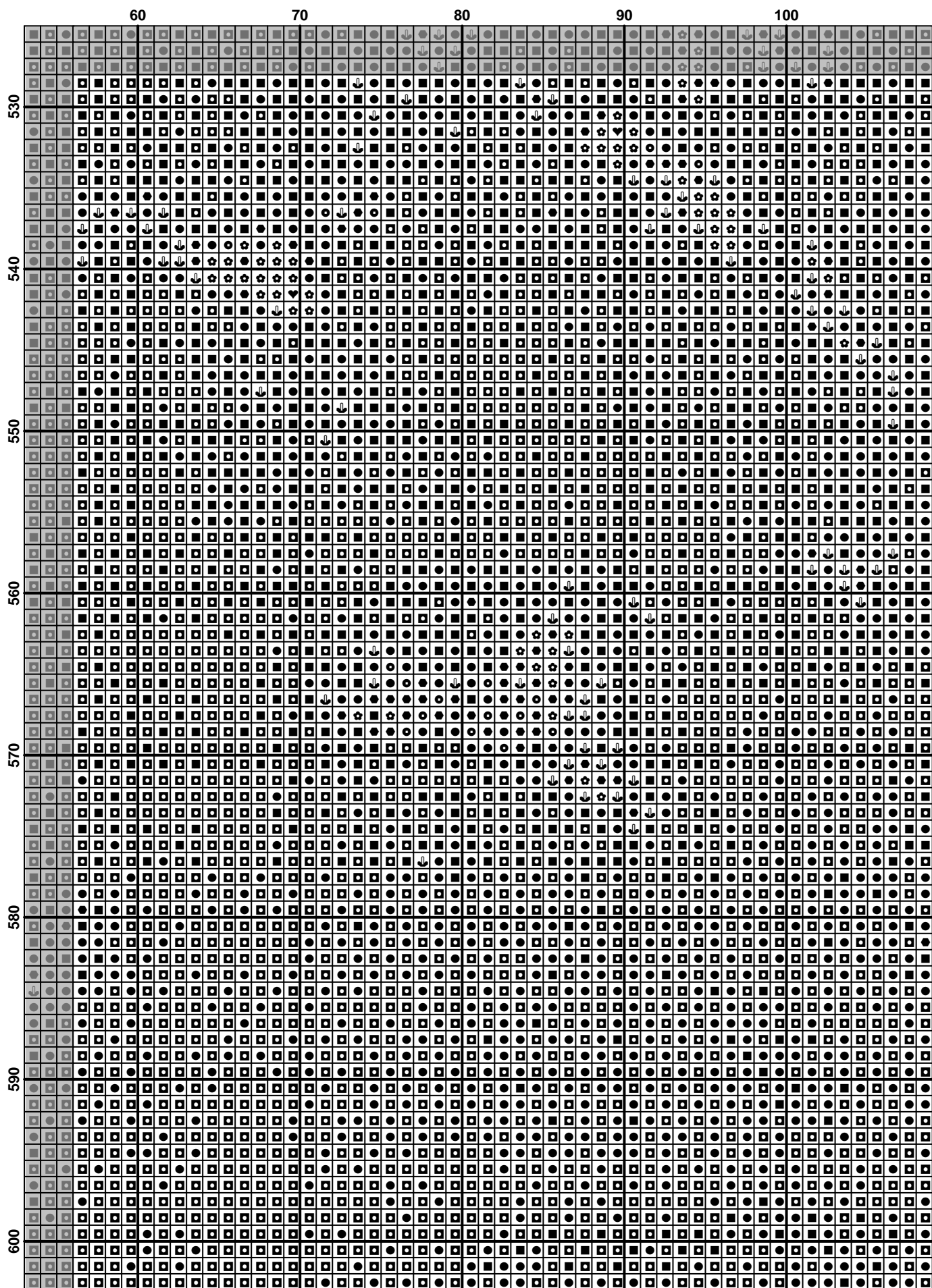


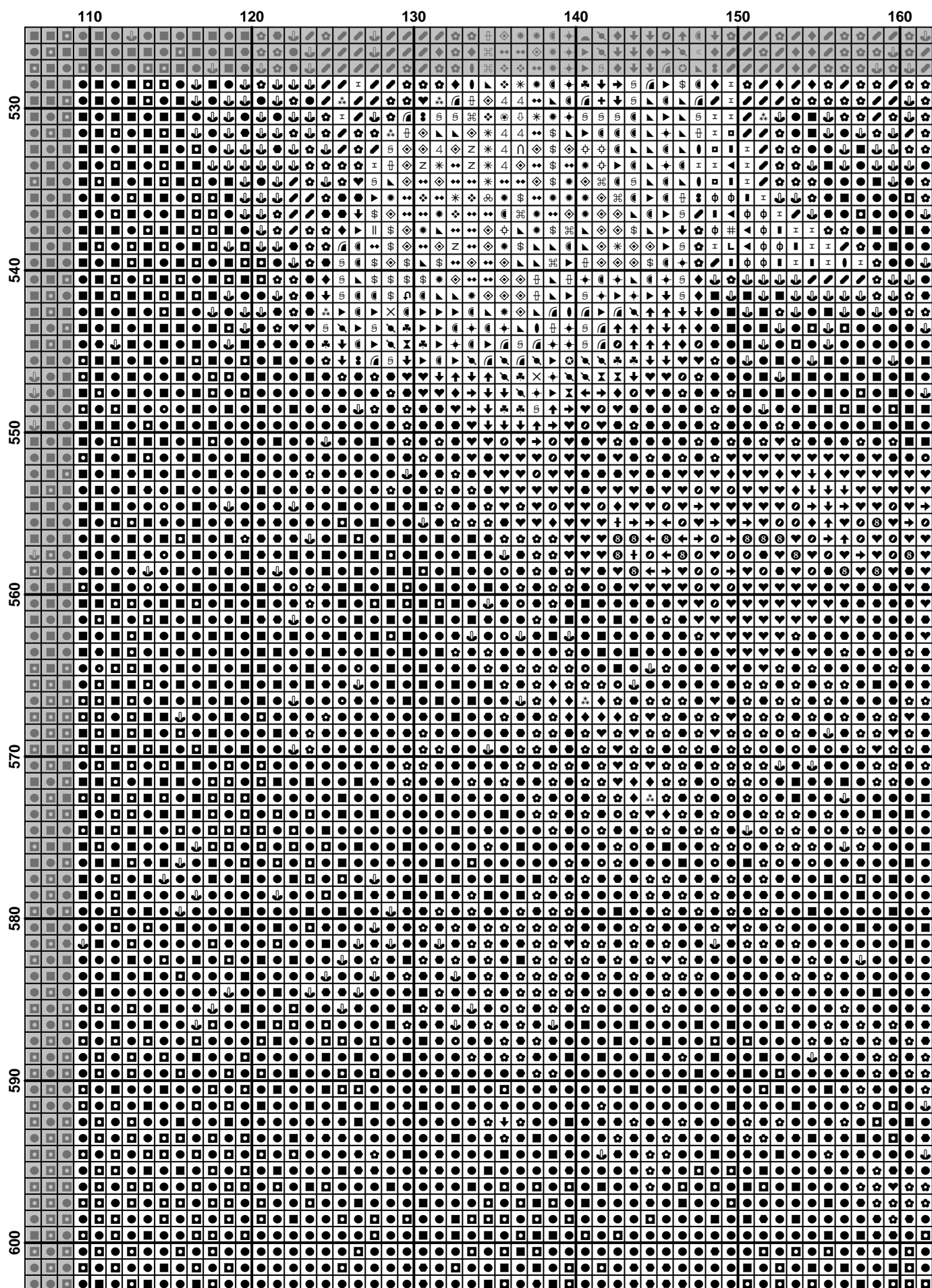


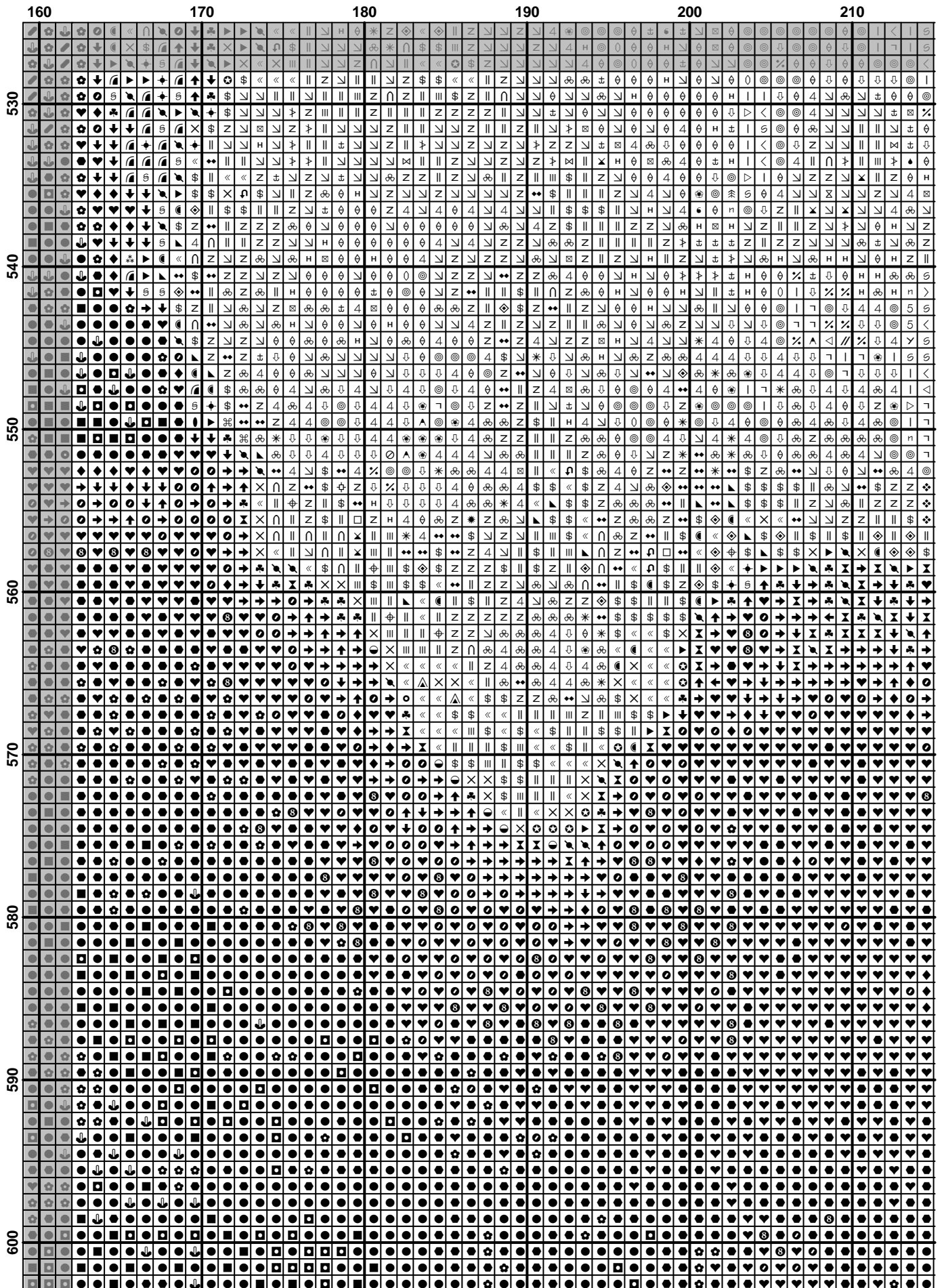










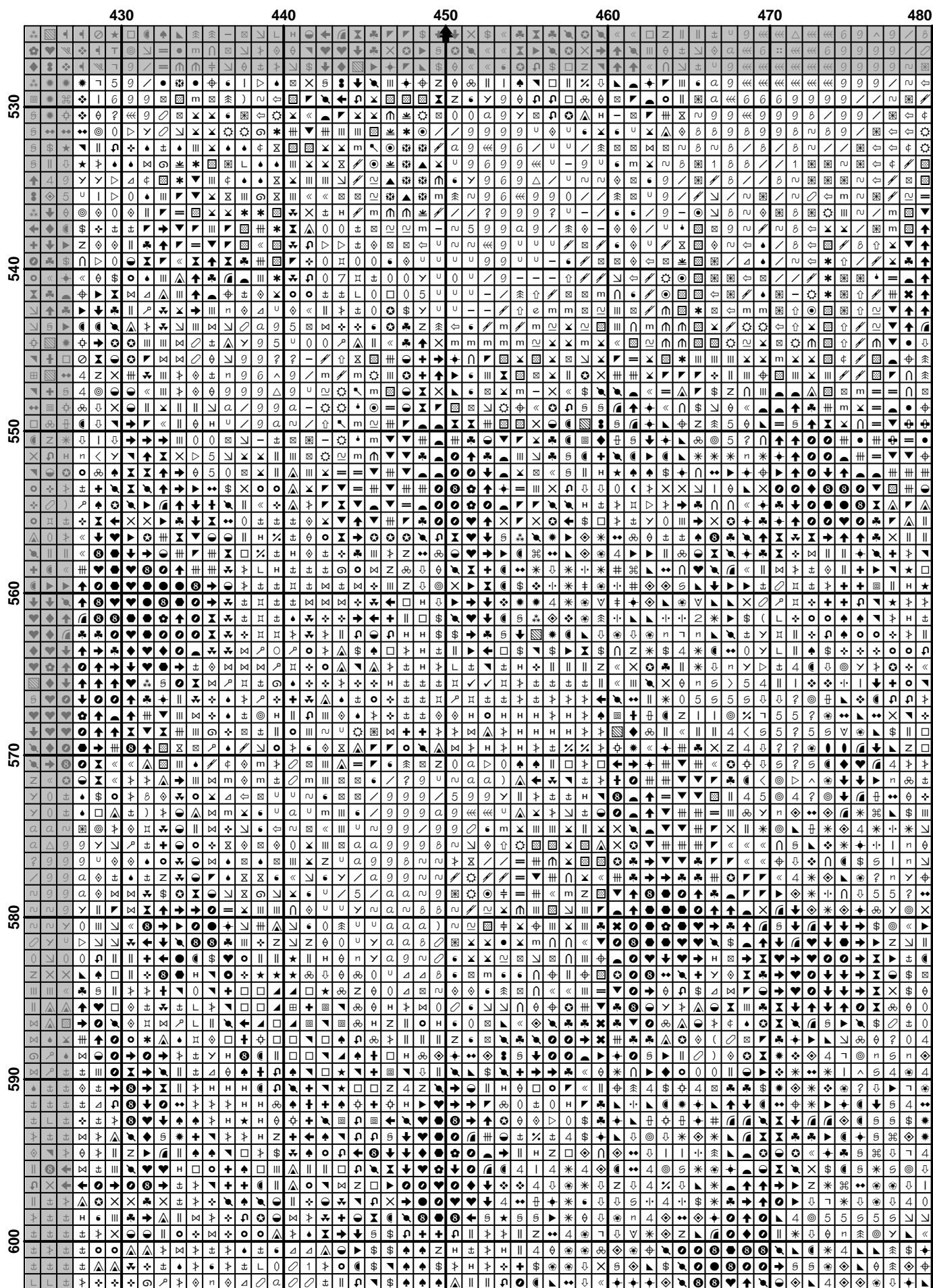


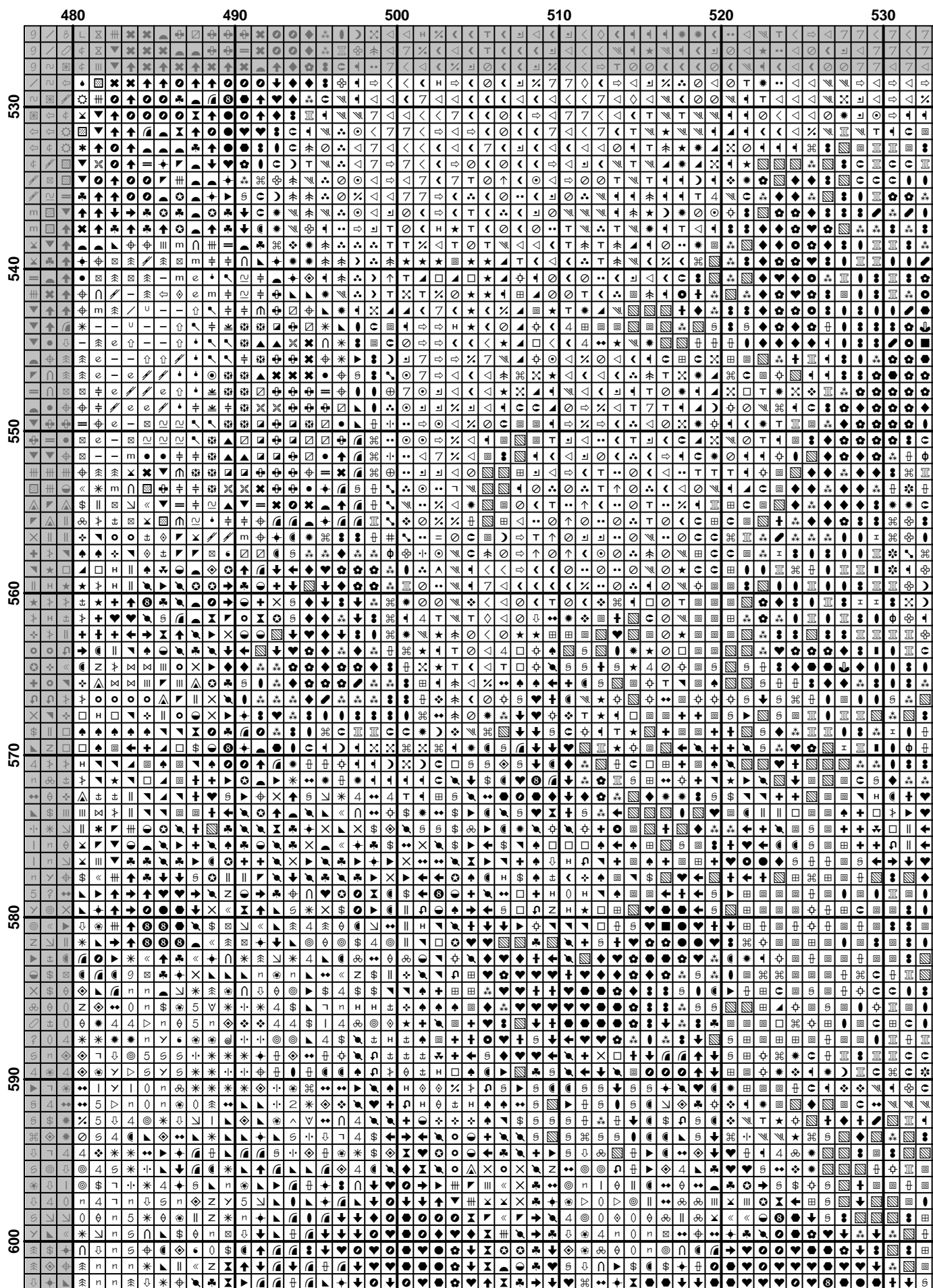
[illegible]

$$(142) \quad \text{[The sentence is not visible in the image]} \quad (143)$$

(144)

	380	390	400	410	420
530					
540					
550					
560					
570					
580					
590					
600					





$$(147) \quad \text{[The text of equation (147) is illegible]} \quad (148)$$

