

# 1208 Das Schatzkas



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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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Das Schatzkas												
<div>Stitch Count</div>					<div>Recommended Fabric Color</div>							
Horizontal:		600			Antique White							
Vertical:		410										
<p>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.</p> <p>The sizes are given for 14, 16 and 18 stitches per inch fabrics.</p> <p>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.</p>												
	14				16				18			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	109	42.75	75	29.25	95	37.4	65	25.59	85	33.25	58	22.75
Including Margins:	125	49	91	36	111	44	81	32	101	40	74	29
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	152	59.85	105	40.95	127	49.87	87	34.12	63	24.93	43	17.06
Including Margins:	168	66	121	47	143	56	103	41	79	31	59	24
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	61	23.94	42	16.38	58	23.01	40	15.75	56	22.16	38	15.16
Including Margins:	77	30	58	23	74	30	56	22	72	29	54	22
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	54	21.37	37	14.62	50	19.95	35	13.65	47	18.7	32	12.79
Including Margins:	70	28	53	21	66	26	51	20	63	25	48	19

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
	224	Shell Pink-VY LT
	318	Steel Gray-LT
	319	Pistachio Green-VY DK
	356	Terra Cotta-MD
	370	Mustard-MD
	414	Steel Gray-DK
	415	Pearl Gray
	420	Hazelnut Brown-DK
	422	Hazelnut Brown-LT
	437	Tan-LT
	451	Shell Gray-DK
	452	Shell Gray-MD
	503	Blue Green-MD
	522	Fern Green
	543	Beige Brown-UL VY LT
	611	Drab Brown
	612	Drab Brown-LT
	613	Drab Brown-VY LT
	632	Desert Sand-UL VY DK
	640	Beige Gray-VY DK
	645	Beaver Gray-VY DK
	647	Beaver Gray-MD
	648	Beaver Gray-LT
	677	Old Gold-VY LT
	680	Old Gold-DK
	712	Cream
	733	Olive Green-MD
	738	Tan-VY LT
	739	Tan-UL VY LT
	762	Pearl Gray-VY LT
	778	Antique Mauve-VY LT
	819	Baby Pink-LT
	822	Beige Gray-LT
	830	Golden Olive-DK
	831	Golden Olive-MD
	834	Golden Olive-VY LT
	838	Beige Brown-VY DK

	839	Beige Brown-DK
	869	Hazelnut Brown-VY DK
	895	Hunter Green-VY DK
	921	Copper
	927	Gray Green-LT
	928	Gray Green-VY LT
	938	Coffee Brown-UL DK
	958	Sea Green-DK
	992	Aquamarine-MD
	993	Aquamarine-LT
	3021	Brown Gray -VY DK
	3024	Brown Gray -VY LT
	3032	Mocha Brown-MD
	3041	Antique Violet-MD
	3045	Yellow Beige-DK
	3046	Yellow Beige-MD
	3072	Beaver Gray-VY LT
	3362	Pine Green-DK
	3371	Black Brown
	3726	Antique Mauve-DK
	3733	Dusty Rose
	3740	Antique Violet-DK
	3753	Antique Blue-UL VY LT
	3756	Baby Blue-UL VY LT
	3772	Desert Sand-VY DK
	3778	Terra Cotta-LT
	3779	Terra Cotta-UL VY LT
	3781	Mocha Brown-DK
	3787	Brown Gray -DK
	3802	Antique Mauve-VY DK
	3815	Celadon Green-DK
	3816	Celadon Green-MD
	3828	Hazelnut Brown
	3857	Rosewood-DK
	3860	Cocoa
	3861	Cocoa-LT
	3862	Mocha Beige-DK
	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
	839	Beige Brown-DK	3787	Brown Gray -DK
	838	Beige Brown-VY DK	839	Beige Brown-DK
	640	Beige Gray-VY DK	3032	Mocha Brown-MD
	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
	632	Desert Sand-UL VY DK	3787	Brown Gray -DK
	407	Desert Sand-DK	437	Tan-LT
	762	Pearl Gray-VY LT	3756	Baby Blue-UL VY LT
	3756	Baby Blue-UL VY LT	3865	Winter White
	819	Baby Pink-LT	3865	Winter White

⊕	356	Terra Cotta-MD	3828	Hazelnut Brown
◇	414	Steel Gray-DK	3041	Antique Violet-MD
^	712	Cream	762	Pearl Gray-VY LT
◌	414	Steel Gray-DK	932	Antique Blue-LT
⋈	414	Steel Gray-DK	3861	Cocoa-LT
◎	647	Beaver Gray-MD	3861	Cocoa-LT
♠	317	Pewter Gray	3740	Antique Violet-DK
☾	640	Beige Gray-VY DK	3860	Cocoa
▣	3740	Antique Violet-DK	3787	Brown Gray -DK
☆	927	Gray Green-LT	928	Gray Green-VY LT
⋈	928	Gray Green-VY LT	932	Antique Blue-LT
⚡	223	Shell Pink-LT	3726	Antique Mauve-DK
⚡	3721	Shell Pink-DK	3772	Desert Sand-VY DK
🐼	3021	Brown Gray -VY DK	3740	Antique Violet-DK
4	613	Drab Brown-VY LT	778	Antique Mauve-VY LT
⚡	543	Beige Brown-UL VY LT	778	Antique Mauve-VY LT
l	712	Cream	3072	Beaver Gray-VY LT
■	938	Coffee Brown-UL DK	3371	Black Brown
⊗	223	Shell Pink-LT	407	Desert Sand-DK
=	3860	Cocoa	3862	Mocha Beige-DK
◌	3346	Hunter Green	3787	Brown Gray -DK
m	437	Tan-LT	3045	Yellow Beige-DK
†	839	Beige Brown-DK	869	Hazelnut Brown-VY DK
∇	3861	Cocoa-LT	3864	Mocha Beige-LT
⊗	738	Tan-VY LT	3864	Mocha Beige-LT
⊗	647	Beaver Gray-MD	3864	Mocha Beige-LT
L	640	Beige Gray-VY DK	3772	Desert Sand-VY DK
★	420	Hazelnut Brown-DK	3772	Desert Sand-VY DK
☼	838	Beige Brown-VY DK	938	Coffee Brown-UL DK
⊕	420	Hazelnut Brown-DK	3828	Hazelnut Brown
🐼	223	Shell Pink-LT	612	Drab Brown-LT
⊕	632	Desert Sand-UL VY DK	3721	Shell Pink-DK
⚡	451	Shell Gray-DK	3726	Antique Mauve-DK
⊗	3328	Salmon-DK	3778	Terra Cotta-LT
≈	407	Desert Sand-DK	612	Drab Brown-LT
×	414	Steel Gray-DK	415	Pearl Gray
≡	318	Steel Gray-LT	415	Pearl Gray
⇒	613	Drab Brown-VY LT	739	Tan-UL VY LT
⚡	3346	Hunter Green	611	Drab Brown
⚡	317	Pewter Gray	3041	Antique Violet-MD
○	3024	Brown Gray -VY LT	3072	Beaver Gray-VY LT
▼	830	Golden Olive-DK	839	Beige Brown-DK
▶	830	Golden Olive-DK	3862	Mocha Beige-DK
::	437	Tan-LT	612	Drab Brown-LT
⚡	370	Mustard-MD	420	Hazelnut Brown-DK
∩	370	Mustard-MD	3828	Hazelnut Brown
#	3045	Yellow Beige-DK	3778	Terra Cotta-LT
◀	830	Golden Olive-DK	3346	Hunter Green
⚡	414	Steel Gray-DK	927	Gray Green-LT
▲	611	Drab Brown	3860	Cocoa
L	3046	Yellow Beige-MD	3855	Autumn Gold-LT
2	612	Drab Brown-LT	3864	Mocha Beige-LT
..	209	Lavender-DK	318	Steel Gray-LT
≡	612	Drab Brown-LT	3861	Cocoa-LT
*	553	Violet	3861	Cocoa-LT
v	822	Beige Gray-LT	3024	Brown Gray -VY LT
⚡	415	Pearl Gray	3072	Beaver Gray-VY LT
◀	3362	Pine Green-DK	3021	Brown Gray -VY DK
x	3032	Mocha Brown-MD	3772	Desert Sand-VY DK

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●	895	Hunter Green-VY DK	3371	Black Brown
♣	3733	Dusty Rose	3864	Mocha Beige-LT
♠	356	Terra Cotta-MD	3778	Terra Cotta-LT
•	822	Beige Gray-LT	951	Tawny -LT
↔	415	Pearl Gray	3024	Brown Gray -VY LT
○	712	Cream	948	Peach-VY LT
♦♦	611	Drab Brown	830	Golden Olive-DK
н	452	Shell Gray-MD	3836	Grape-LT
и	712	Cream	822	Beige Gray-LT
■	420	Hazelnut Brown-DK	869	Hazelnut Brown-VY DK
٪	318	Steel Gray-LT	553	Violet
▲	632	Desert Sand-UL VY DK	3802	Antique Mauve-VY DK
▷	3772	Desert Sand-VY DK	3828	Hazelnut Brown
↘	612	Drab Brown-LT	3828	Hazelnut Brown
δ	819	Baby Pink-LT	3756	Baby Blue-UL VY LT
III	833	Golden Olive-LT	3828	Hazelnut Brown
=	613	Drab Brown-VY LT	543	Beige Brown-UL VY LT
c	613	Drab Brown-VY LT	648	Beaver Gray-LT
н	613	Drab Brown-VY LT	452	Shell Gray-MD
⊕	370	Mustard-MD	640	Beige Gray-VY DK
)	543	Beige Brown-UL VY LT	739	Tan-UL VY LT
β	928	Gray Green-VY LT	3024	Brown Gray -VY LT
?	928	Gray Green-VY LT	993	Aquamarine-LT
±	927	Gray Green-LT	993	Aquamarine-LT
7	927	Gray Green-LT	648	Beaver Gray-LT
†	3733	Dusty Rose	3778	Terra Cotta-LT
✱	921	Copper	3721	Shell Pink-DK
⊗	830	Golden Olive-DK	3781	Mocha Brown-DK
⊖	3781	Mocha Brown-DK	3346	Hunter Green
➔	839	Beige Brown-DK	3857	Rosewood-DK
⦿	938	Coffee Brown-UL DK	3857	Rosewood-DK
↓	632	Desert Sand-UL VY DK	3857	Rosewood-DK
и	611	Drab Brown	420	Hazelnut Brown-DK
+	830	Golden Olive-DK	869	Hazelnut Brown-VY DK
т	356	Terra Cotta-MD	833	Golden Olive-LT
III	833	Golden Olive-LT	3778	Terra Cotta-LT
⊕	3032	Mocha Brown-MD	3828	Hazelnut Brown
6	613	Drab Brown-VY LT	3779	Terra Cotta-UL VY LT
✓	223	Shell Pink-LT	758	Terra Cotta-VY LT
♡	951	Tawny -LT	3856	Mahogany-UL VY LT
↑	319	Pistachio Green-VY DK	3021	Brown Gray -VY DK
◆	895	Hunter Green-VY DK	3021	Brown Gray -VY DK
Ⓢ	3021	Brown Gray -VY DK	3371	Black Brown
✂	223	Shell Pink-LT	3733	Dusty Rose
⊙	223	Shell Pink-LT	3328	Salmon-DK
♣	3721	Shell Pink-DK	3857	Rosewood-DK
и	301	Mahogany-MD	3721	Shell Pink-DK
■	3787	Brown Gray -DK	3815	Celadon Green-DK
▲	451	Shell Gray-DK	645	Beaver Gray-VY DK
◇	318	Steel Gray-LT	3836	Grape-LT
∅	341	Blue Violet-LT	415	Pearl Gray
✂	3740	Antique Violet-DK	3041	Antique Violet-MD
✚	420	Hazelnut Brown-DK	733	Olive Green-MD
■	869	Hazelnut Brown-VY DK	3857	Rosewood-DK
×	414	Steel Gray-DK	553	Violet
◁	648	Beaver Gray-LT	3864	Mocha Beige-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	
209	Lavender-DK	31	12	30	11	27	10
223	Shell Pink-LT	143	56	136	53	122	48
224	Shell Pink-VY LT	45	17	43	16	38	14
301	Mahogany-MD	21	8	20	7	18	7
317	Pewter Gray	180	70	172	67	155	61
318	Steel Gray-LT	402	158	383	150	345	135
319	Pistachio Green-VY DK	190	74	181	71	163	64
341	Blue Violet-LT	82	32	78	30	70	27
356	Terra Cotta-MD	86	33	82	32	74	29
370	Mustard-MD	914	359	871	342	784	308
407	Desert Sand-DK	173	68	165	64	148	58
414	Steel Gray-DK	1022	402	974	383	876	344
415	Pearl Gray	827	325	788	310	709	279
420	Hazelnut Brown-DK	730	287	695	273	625	246
422	Hazelnut Brown-LT	87	34	83	32	75	29
437	Tan-LT	265	104	253	99	227	89
451	Shell Gray-DK	847	333	807	317	726	285
452	Shell Gray-MD	448	176	426	167	384	151
503	Blue Green-MD	84	33	80	31	72	28
522	Fern Green	119	46	113	44	102	40
543	Beige Brown-UL VY LT	397	156	378	148	340	133
553	Violet	340	133	324	127	292	114
611	Drab Brown	1348	530	1284	505	1155	454
612	Drab Brown-LT	1002	394	954	375	859	338
613	Drab Brown-VY LT	763	300	726	285	654	257
632	Desert Sand-UL VY DK	1093	430	1041	409	937	368
640	Beige Gray-VY DK	1774	698	1690	665	1521	598
645	Beaver Gray-VY DK	479	188	456	179	411	161
647	Beaver Gray-MD	995	391	947	372	852	335
648	Beaver Gray-LT	920	362	876	344	788	310
677	Old Gold-VY LT	22	8	21	8	19	7
680	Old Gold-DK	55	21	53	20	47	18
712	Cream	753	296	717	282	645	253
733	Olive Green-MD	146	57	139	54	125	49
738	Tan-VY LT	277	109	263	103	237	93
739	Tan-UL VY LT	199	78	190	74	171	67
758	Terra Cotta-VY LT	17	6	16	6	14	5
762	Pearl Gray-VY LT	372	146	354	139	319	125
778	Antique Mauve-VY LT	171	67	163	64	147	57
819	Baby Pink-LT	447	175	426	167	383	150
822	Beige Gray-LT	542	213	516	203	464	182
830	Golden Olive-DK	1176	462	1120	440	1008	396
831	Golden Olive-MD	107	42	102	40	92	36
833	Golden Olive-LT	138	54	131	51	118	46
834	Golden Olive-VY LT	54	21	52	20	46	18
838	Beige Brown-VY DK	4016	1581	3824	1505	3442	1355
839	Beige Brown-DK	2961	1165	2820	1110	2538	999
869	Hazelnut Brown-VY DK	738	290	703	276	632	248
895	Hunter Green-VY DK	1052	414	1002	394	902	355
921	Copper	26	10	25	9	22	8
927	Gray Green-LT	520	204	495	194	446	175
928	Gray Green-VY LT	593	233	565	222	508	200
932	Antique Blue-LT	59	23	56	22	51	20
938	Coffee Brown-UL DK	8660	3409	8248	3247	7423	2922

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948	Peach-VY LT	82	32	78	30	70	27
951	Tawny -LT	113	44	108	42	97	38
958	Sea Green-DK	17	6	16	6	14	5
992	Aquamarine-MD	28	11	27	10	24	9
993	Aquamarine-LT	263	103	250	98	225	88
3021	Brown Gray -VY DK	3055	1202	2910	1145	2619	1031
3024	Brown Gray -VY LT	994	391	946	372	852	335
3032	Mocha Brown-MD	1515	596	1442	567	1298	511
3041	Antique Violet-MD	845	332	805	316	725	285
3045	Yellow Beige-DK	366	144	348	137	313	123
3046	Yellow Beige-MD	107	42	102	40	91	35
3072	Beaver Gray -VY LT	906	356	863	339	777	305
3328	Salmon-DK	24	9	23	9	21	8
3346	Hunter Green	277	109	264	103	237	93
3362	Pine Green-DK	347	136	330	129	297	116
3371	Black Brown	6965	2742	6634	2611	5970	2350
3721	Shell Pink-DK	96	37	91	35	82	32
3726	Antique Mauve-DK	157	61	150	59	135	53
3733	Dusty Rose	98	38	93	36	84	33
3740	Antique Violet-DK	623	245	593	233	534	210
3753	Antique Blue-UL VY LT	202	79	192	75	173	68
3756	Baby Blue-UL VY LT	704	277	671	264	604	237
3772	Desert Sand-VY DK	994	391	947	372	852	335
3778	Terra Cotta-LT	123	48	117	46	105	41
3779	Terra Cotta-UL VY LT	75	29	72	28	65	25
3781	Mocha Brown-DK	1487	585	1416	557	1274	501
3787	Brown Gray -DK	1615	635	1538	605	1384	544
3802	Antique Mauve-VY DK	165	64	157	61	141	55
3815	Celadon Green-DK	47	18	45	17	40	15
3816	Celadon Green-MD	29	11	28	11	25	9
3828	Hazelnut Brown	817	321	778	306	700	275
3836	Grape-LT	172	67	163	64	147	57
3855	Autumn Gold-LT	25	9	24	9	21	8
3856	Mahogany-UL VY LT	14	5	14	5	12	4
3857	Rosewood-DK	1605	631	1529	601	1376	541
3860	Cocoa	1021	401	972	382	875	344
3861	Cocoa-LT	1140	448	1085	427	977	384
3862	Mocha Beige-DK	1114	438	1061	417	955	375
3864	Mocha Beige-LT	1536	604	1463	575	1316	518
3865	Winter White	709	279	675	265	607	238

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
209	Lavender-DK	49	18	41	15	20	8
223	Shell Pink-LT	220	86	183	72	92	36
224	Shell Pink-VY LT	68	25	57	21	29	11
301	Mahogany-MD	32	13	27	11	14	5
317	Pewter Gray	279	110	233	92	116	46
318	Steel Gray-LT	621	243	518	203	259	101
319	Pistachio Green-VY DK	293	115	245	96	122	48
341	Blue Violet-LT	126	49	105	41	53	20
356	Terra Cotta-MD	133	52	111	44	56	22
370	Mustard-MD	1411	554	1176	462	588	231
407	Desert Sand-DK	266	104	222	87	111	44
414	Steel Gray-DK	1577	619	1314	516	657	258



415	Pearl Gray	1276	502	1064	419	532	209
420	Hazelnut Brown-DK	1125	443	938	369	469	185
422	Hazelnut Brown-LT	135	52	113	44	56	22
437	Tan-LT	409	160	341	134	170	67
451	Shell Gray-DK	1307	513	1089	428	545	214
452	Shell Gray-MD	691	272	576	227	288	113
503	Blue Green-MD	130	50	108	42	54	21
522	Fern Green	184	72	153	60	77	30
543	Beige Brown-UL VY LT	612	239	510	200	255	100
553	Violet	526	205	438	171	219	86
611	Drab Brown	2079	817	1733	681	866	341
612	Drab Brown-LT	1546	608	1289	507	644	254
613	Drab Brown-VY LT	1177	463	981	386	491	193
632	Desert Sand-UL VY DK	1687	662	1406	552	703	276
640	Beige Gray-VY DK	2738	1076	2282	897	1141	449
645	Beaver Gray-VY DK	740	290	617	242	308	121
647	Beaver Gray-MD	1534	603	1278	503	639	251
648	Beaver Gray-LT	1418	558	1182	465	591	233
677	Old Gold-VY LT	34	13	29	11	14	5
680	Old Gold-DK	85	32	71	27	35	14
712	Cream	1161	455	968	380	484	190
733	Olive Green-MD	225	88	188	74	94	37
738	Tan-VY LT	427	167	356	140	178	70
739	Tan-UL VY LT	308	121	257	101	128	50
758	Terra Cotta-VY LT	25	9	21	8	11	4
762	Pearl Gray-VY LT	574	225	479	188	239	94
778	Antique Mauve-VY LT	265	103	221	86	110	43
819	Baby Pink-LT	689	270	575	225	287	113
822	Beige Gray-LT	835	328	696	273	348	137
830	Golden Olive-DK	1814	713	1512	594	756	297
831	Golden Olive-MD	166	65	138	54	69	27
833	Golden Olive-LT	212	83	177	69	89	35
834	Golden Olive-VY LT	83	32	69	27	35	14
838	Beige Brown-VY DK	6196	2439	5163	2033	2582	1016
839	Beige Brown-DK	4568	1798	3807	1499	1904	749
869	Hazelnut Brown-VY DK	1138	446	948	372	474	186
895	Hunter Green-VY DK	1624	639	1353	533	677	266
921	Copper	40	14	33	12	17	6
927	Gray Green-LT	803	315	669	263	335	131
928	Gray Green-VY LT	914	360	762	300	381	150
932	Antique Blue-LT	92	36	77	30	38	15
938	Coffee Brown-UL DK	13361	5260	11135	4383	5567	2192
948	Peach-VY LT	126	49	105	41	53	20
951	Tawny -LT	175	68	146	57	73	29
958	Sea Green-DK	25	9	21	8	11	4
992	Aquamarine-MD	43	16	36	14	18	7
993	Aquamarine-LT	405	158	338	132	169	66
3021	Brown Gray -VY DK	4714	1856	3929	1547	1964	773
3024	Brown Gray -VY LT	1534	603	1278	503	639	251
3032	Mocha Brown-MD	2336	920	1947	767	974	383
3041	Antique Violet-MD	1305	513	1088	428	544	214
3045	Yellow Beige-DK	563	221	470	185	235	92
3046	Yellow Beige-MD	164	63	137	53	68	26
3072	Beaver Gray-VY LT	1399	549	1166	458	583	229
3328	Salmon-DK	38	14	32	12	16	6
3346	Hunter Green	427	167	356	140	178	70
3362	Pine Green-DK	535	209	446	174	223	87
3371	Black Brown	10746	4230	8955	3525	4478	1763
3721	Shell Pink-DK	148	58	123	48	62	24

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3726	Antique Mauve-DK	243	95	203	80	101	40
3733	Dusty Rose	151	59	126	50	63	25
3740	Antique Violet-DK	961	378	801	315	401	158
3753	Antique Blue-UL VY LT	311	122	260	102	130	51
3756	Baby Blue-UL VY LT	1087	427	906	356	453	178
3772	Desert Sand-VY DK	1534	603	1278	503	639	251
3778	Terra Cotta-LT	189	74	158	62	79	31
3779	Terra Cotta-UL VY LT	117	45	98	38	49	19
3781	Mocha Brown-DK	2293	902	1911	752	956	376
3787	Brown Gray -DK	2491	979	2076	816	1038	408
3802	Antique Mauve-VY DK	254	99	212	83	106	41
3815	Celadon Green-DK	72	27	60	23	30	11
3816	Celadon Green-MD	45	16	38	14	19	7
3828	Hazelnut Brown	1260	495	1050	413	525	206
3836	Grape-LT	265	103	221	86	110	43
3855	Autumn Gold-LT	38	14	32	12	16	6
3856	Mahogany-UL VY LT	22	7	18	6	9	3
3857	Rosewood-DK	2477	974	2064	812	1032	406
3860	Cocoa	1575	619	1313	516	656	258
3861	Cocoa-LT	1759	691	1466	576	733	288
3862	Mocha Beige-DK	1719	675	1433	563	716	281
3864	Mocha Beige-LT	2369	932	1974	777	987	389
3865	Winter White	1093	428	911	357	455	179

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
209	Lavender-DK	19	7	19	7	18	7
223	Shell Pink-LT	88	35	84	33	81	32
224	Shell Pink-VY LT	27	10	26	10	25	9
301	Mahogany-MD	13	5	12	5	12	5
317	Pewter Gray	112	44	107	42	103	41
318	Steel Gray-LT	248	97	239	93	230	90
319	Pistachio Green-VY DK	117	46	113	44	109	43
341	Blue Violet-LT	50	19	48	19	47	18
356	Terra Cotta-MD	53	21	51	20	49	19
370	Mustard-MD	564	222	543	213	523	205
407	Desert Sand-DK	107	42	102	40	99	39
414	Steel Gray-DK	631	248	606	238	584	229
415	Pearl Gray	510	201	491	193	473	186
420	Hazelnut Brown-DK	450	177	433	170	417	164
422	Hazelnut Brown-LT	54	21	52	20	50	19
437	Tan-LT	163	64	157	62	151	59
451	Shell Gray-DK	523	205	503	197	484	190
452	Shell Gray-MD	276	109	266	105	256	101
503	Blue Green-MD	52	20	50	19	48	19
522	Fern Green	73	29	71	28	68	27
543	Beige Brown-UL VY LT	245	96	235	92	227	89
553	Violet	210	82	202	79	195	76
611	Drab Brown	832	327	800	314	770	303
612	Drab Brown-LT	618	243	595	234	573	225
613	Drab Brown-VY LT	471	185	453	178	436	171
632	Desert Sand-UL VY DK	675	265	649	255	625	245
640	Beige Gray-VY DK	1095	431	1053	414	1014	399
645	Beaver Gray-VY DK	296	116	285	111	274	107
647	Beaver Gray-MD	613	241	590	232	568	223

648	Beaver Gray-LT	567	223	546	215	525	207
677	Old Gold-VY LT	14	5	13	5	13	5
680	Old Gold-DK	34	13	33	12	31	12
712	Cream	464	182	447	175	430	169
733	Olive Green-MD	90	35	87	34	83	33
738	Tan-VY LT	171	67	164	64	158	62
739	Tan-UL VY LT	123	48	118	46	114	45
758	Terra Cotta-VY LT	10	4	10	3	9	3
762	Pearl Gray-VY LT	230	90	221	87	213	83
778	Antique Mauve-VY LT	106	41	102	39	98	38
819	Baby Pink-LT	276	108	265	104	255	100
822	Beige Gray-LT	334	131	321	126	309	121
830	Golden Olive-DK	726	285	698	274	672	264
831	Golden Olive-MD	66	26	64	25	61	24
833	Golden Olive-LT	85	33	82	32	79	31
834	Golden Olive-VY LT	33	13	32	12	31	12
838	Beige Brown-VY DK	2478	976	2383	938	2295	903
839	Beige Brown-DK	1827	719	1757	692	1692	666
869	Hazelnut Brown-VY DK	455	179	438	172	421	165
895	Hunter Green-VY DK	649	256	624	246	601	237
921	Copper	16	6	15	6	15	5
927	Gray Green-LT	321	126	309	121	297	117
928	Gray Green-VY LT	366	144	352	138	339	133
932	Antique Blue-LT	37	14	35	14	34	13
938	Coffee Brown-UL DK	5345	2104	5139	2023	4949	1948
948	Peach-VY LT	50	19	48	19	47	18
951	Tawny-LT	70	27	67	26	65	25
958	Sea Green-DK	10	4	10	3	9	3
992	Aquamarine-MD	17	6	17	6	16	6
993	Aquamarine-LT	162	63	156	61	150	59
3021	Brown Gray-VY DK	1886	742	1813	714	1746	687
3024	Brown Gray-VY LT	613	241	590	232	568	223
3032	Mocha Brown-MD	935	368	899	354	865	341
3041	Antique Violet-MD	522	205	502	197	483	190
3045	Yellow Beige-DK	225	89	217	85	209	82
3046	Yellow Beige-MD	66	25	63	24	61	23
3072	Beaver Gray-VY LT	559	220	538	211	518	203
3328	Salmon-DK	15	6	15	6	14	5
3346	Hunter Green	171	67	164	64	158	62
3362	Pine Green-DK	214	84	206	80	198	77
3371	Black Brown	4298	1692	4133	1627	3980	1567
3721	Shell Pink-DK	59	23	57	22	55	21
3726	Antique Mauve-DK	97	38	93	37	90	35
3733	Dusty Rose	60	24	58	23	56	22
3740	Antique Violet-DK	384	151	370	145	356	140
3753	Antique Blue-UL VY LT	125	49	120	47	115	45
3756	Baby Blue-UL VY LT	435	171	418	164	403	158
3772	Desert Sand-VY DK	613	241	590	232	568	223
3778	Terra Cotta-LT	76	30	73	28	70	27
3779	Terra Cotta-UL VY LT	47	18	45	17	43	17
3781	Mocha Brown-DK	917	361	882	347	849	334
3787	Brown Gray-DK	996	392	958	377	923	363
3802	Antique Mauve-VY DK	102	40	98	38	94	37
3815	Celadon Green-DK	29	11	28	10	27	10
3816	Celadon Green-MD	18	6	17	6	17	6
3828	Hazelnut Brown	504	198	485	190	467	183
3836	Grape-LT	106	41	102	39	98	38
3855	Autumn Gold-LT	15	6	15	6	14	5
3856	Mahogany-UL VY LT	9	3	8	3	8	3

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3857	Rosewood-DK	991	390	953	375	917	361
3860	Cocoa	630	248	606	238	583	229
3861	Cocoa-LT	703	276	676	266	651	256
3862	Mocha Beige-DK	688	270	661	260	637	250
3864	Mocha Beige-LT	948	373	911	359	877	345
3865	Winter White	437	171	420	165	405	159

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
209	Lavender-DK	17	6	16	6	15	6
223	Shell Pink-LT	78	31	73	29	69	27
224	Shell Pink-VY LT	24	9	23	8	21	8
301	Mahogany-MD	12	5	11	4	10	4
317	Pewter Gray	100	39	93	37	87	34
318	Steel Gray-LT	222	87	207	81	194	76
319	Pistachio Green-VY DK	105	41	98	38	92	36
341	Blue Violet-LT	45	17	42	16	39	15
356	Terra Cotta-MD	48	19	44	17	42	16
370	Mustard-MD	504	198	470	185	441	173
407	Desert Sand-DK	95	37	89	35	83	33
414	Steel Gray-DK	563	221	526	206	493	194
415	Pearl Gray	456	179	425	167	399	157
420	Hazelnut Brown-DK	402	158	375	148	352	138
422	Hazelnut Brown-LT	48	19	45	17	42	16
437	Tan-LT	146	57	136	53	128	50
451	Shell Gray-DK	467	183	436	171	408	160
452	Shell Gray-MD	247	97	230	91	216	85
503	Blue Green-MD	46	18	43	17	41	16
522	Fern Green	66	26	61	24	57	23
543	Beige Brown-UL VY LT	219	86	204	80	191	75
553	Violet	188	73	175	68	164	64
611	Drab Brown	743	292	693	272	650	255
612	Drab Brown-LT	552	217	515	203	483	190
613	Drab Brown-VY LT	420	165	392	154	368	145
632	Desert Sand-UL VY DK	602	237	562	221	527	207
640	Beige Gray-VY DK	978	384	913	359	856	336
645	Beaver Gray-VY DK	264	104	247	97	231	91
647	Beaver Gray-MD	548	215	511	201	479	188
648	Beaver Gray-LT	507	199	473	186	443	174
677	Old Gold-VY LT	12	5	11	4	11	4
680	Old Gold-DK	30	12	28	11	26	10
712	Cream	415	163	387	152	363	142
733	Olive Green-MD	80	32	75	29	70	28
738	Tan-VY LT	152	60	142	56	133	52
739	Tan-UL VY LT	110	43	103	40	96	38
758	Terra Cotta-VY LT	9	3	8	3	8	3
762	Pearl Gray-VY LT	205	80	191	75	179	70
778	Antique Mauve-VY LT	95	37	88	34	83	32
819	Baby Pink-LT	246	96	230	90	215	84
822	Beige Gray-LT	298	117	278	109	261	102
830	Golden Olive-DK	648	255	605	238	567	223
831	Golden Olive-MD	59	23	55	22	52	20
833	Golden Olive-LT	76	30	71	28	66	26
834	Golden Olive-VY LT	30	12	28	11	26	10
838	Beige Brown-VY DK	2213	871	2065	813	1936	762
839	Beige Brown-DK	1632	642	1523	599	1428	562

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869	Hazelnut Brown-VY DK	406	159	379	149	356	140
895	Hunter Green-VY DK	580	228	541	213	507	200
921	Copper	14	5	13	5	12	5
927	Gray Green-LT	287	113	268	105	251	98
928	Gray Green-VY LT	327	129	305	120	286	113
932	Antique Blue-LT	33	13	31	12	29	11
938	Coffee Brown-UL DK	4772	1878	4454	1753	4175	1644
948	Peach-VY LT	45	17	42	16	39	15
951	Tawny -LT	62	24	58	23	55	21
958	Sea Green-DK	9	3	8	3	8	3
992	Aquamarine-MD	15	6	14	5	14	5
993	Aquamarine-LT	145	57	135	53	127	50
3021	Brown Gray -VY DK	1684	663	1571	619	1473	580
3024	Brown Gray -VY LT	548	215	511	201	479	188
3032	Mocha Brown-MD	834	329	779	307	730	287
3041	Antique Violet-MD	466	183	435	171	408	160
3045	Yellow Beige-DK	201	79	188	74	176	69
3046	Yellow Beige-MD	59	23	55	21	51	20
3072	Beaver Gray-VY LT	500	196	466	183	437	172
3328	Salmon-DK	14	5	13	5	12	5
3346	Hunter Green	152	60	142	56	133	52
3362	Pine Green-DK	191	75	178	70	167	65
3371	Black Brown	3838	1511	3582	1410	3358	1322
3721	Shell Pink-DK	53	21	49	19	46	18
3726	Antique Mauve-DK	87	34	81	32	76	30
3733	Dusty Rose	54	21	50	20	47	19
3740	Antique Violet-DK	343	135	320	126	300	118
3753	Antique Blue-UL VY LT	111	44	104	41	97	38
3756	Baby Blue-UL VY LT	388	152	362	142	340	133
3772	Desert Sand-VY DK	548	215	511	201	479	188
3778	Terra Cotta-LT	68	26	63	25	59	23
3779	Terra Cotta-UL VY LT	42	16	39	15	37	14
3781	Mocha Brown-DK	819	322	764	301	717	282
3787	Brown Gray -DK	890	350	830	326	779	306
3802	Antique Mauve-VY DK	91	35	85	33	79	31
3815	Celadon Green-DK	26	10	24	9	23	8
3816	Celadon Green-MD	16	6	15	5	14	5
3828	Hazelnut Brown	450	177	420	165	394	155
3836	Grape-LT	95	37	88	34	83	32
3855	Autumn Gold-LT	14	5	13	5	12	5
3856	Mahogany-UL VY LT	8	3	7	2	7	2
3857	Rosewood-DK	885	348	826	325	774	304
3860	Cocoa	563	221	525	206	492	194
3861	Cocoa-LT	628	247	586	230	550	216
3862	Mocha Beige-DK	614	241	573	225	537	211
3864	Mocha Beige-LT	846	333	790	311	740	291
3865	Winter White	390	153	364	143	341	134

$$\begin{aligned} & \left( \frac{\partial}{\partial t} + \nabla_{\vec{v}} \cdot \vec{v} \right) f = - \nabla_{\vec{v}} \cdot (\vec{v} f) \\ & \left( \frac{\partial}{\partial t} + \nabla_{\vec{v}} \cdot \vec{v} \right) f = - \nabla_{\vec{v}} \cdot (\vec{v} f) \end{aligned} \tag{14}$$

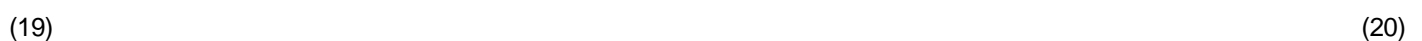
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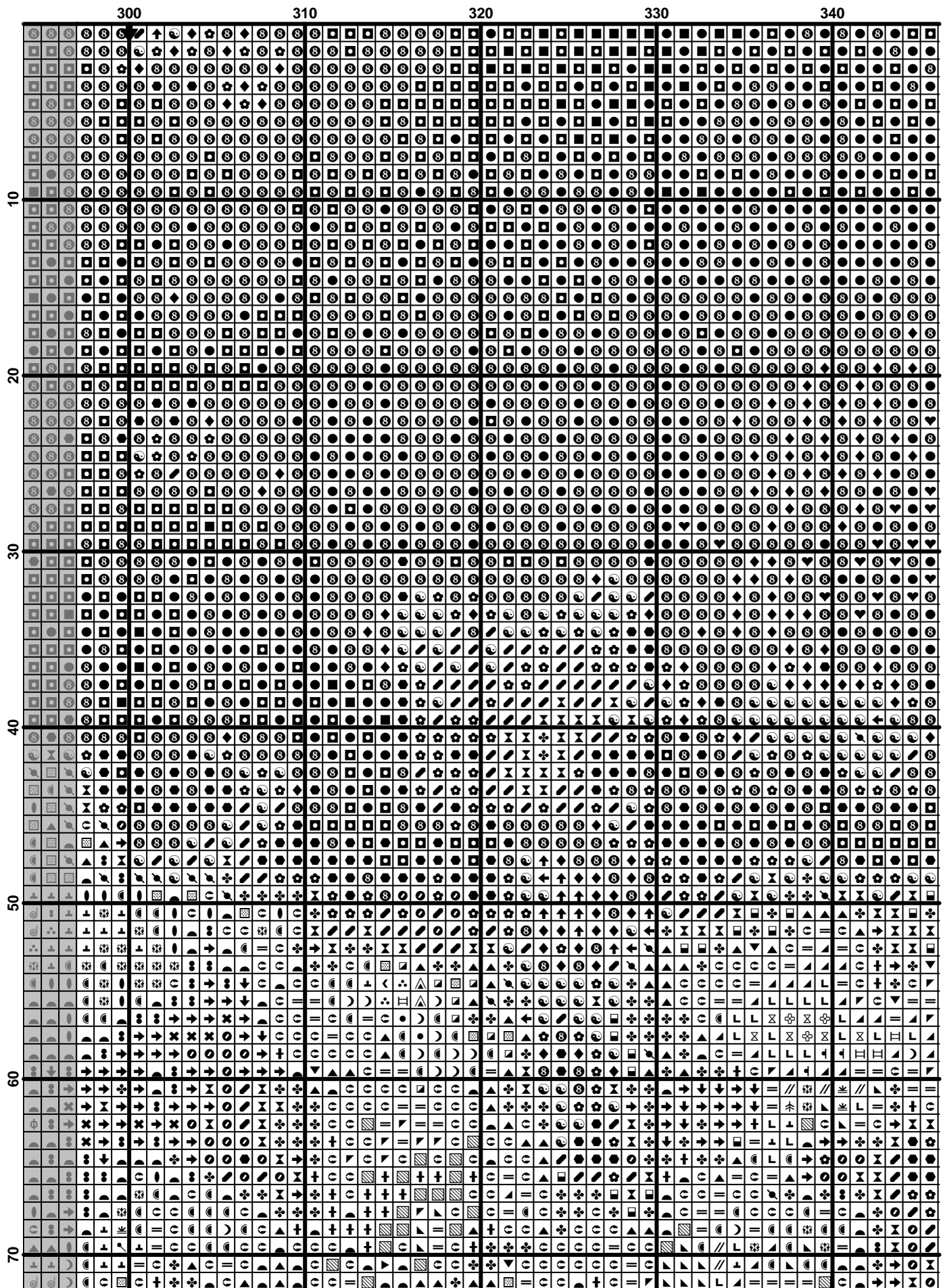


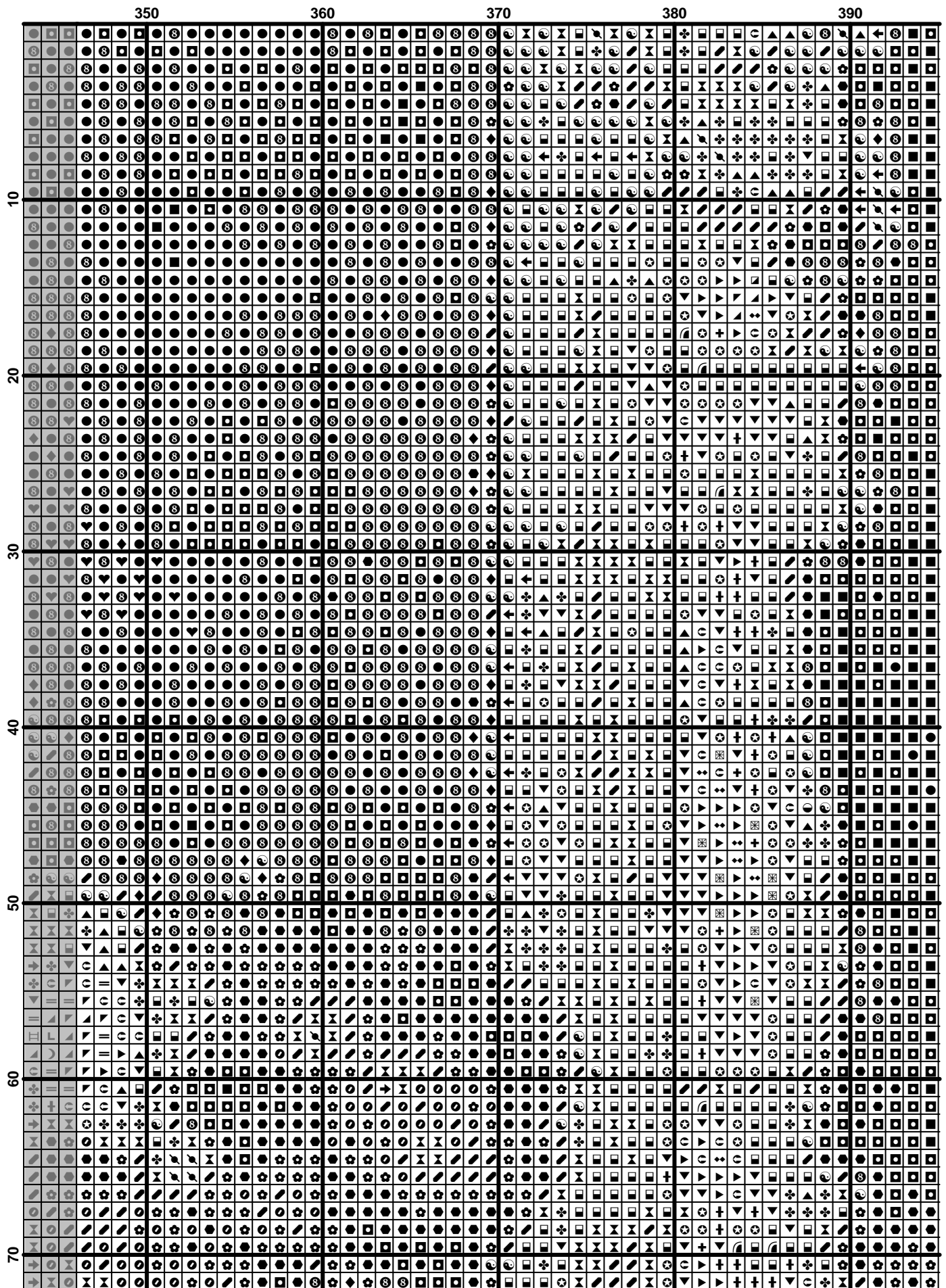
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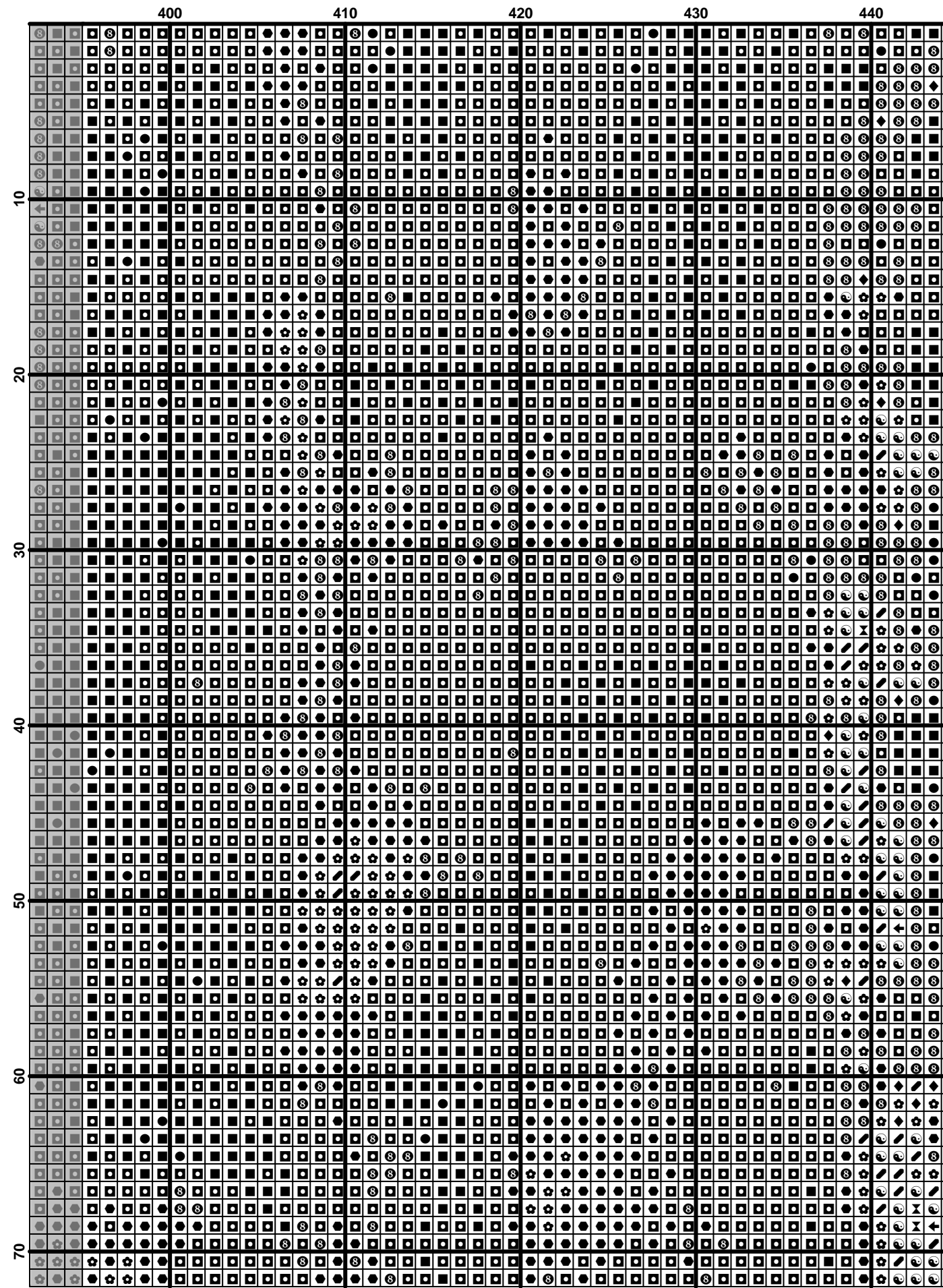


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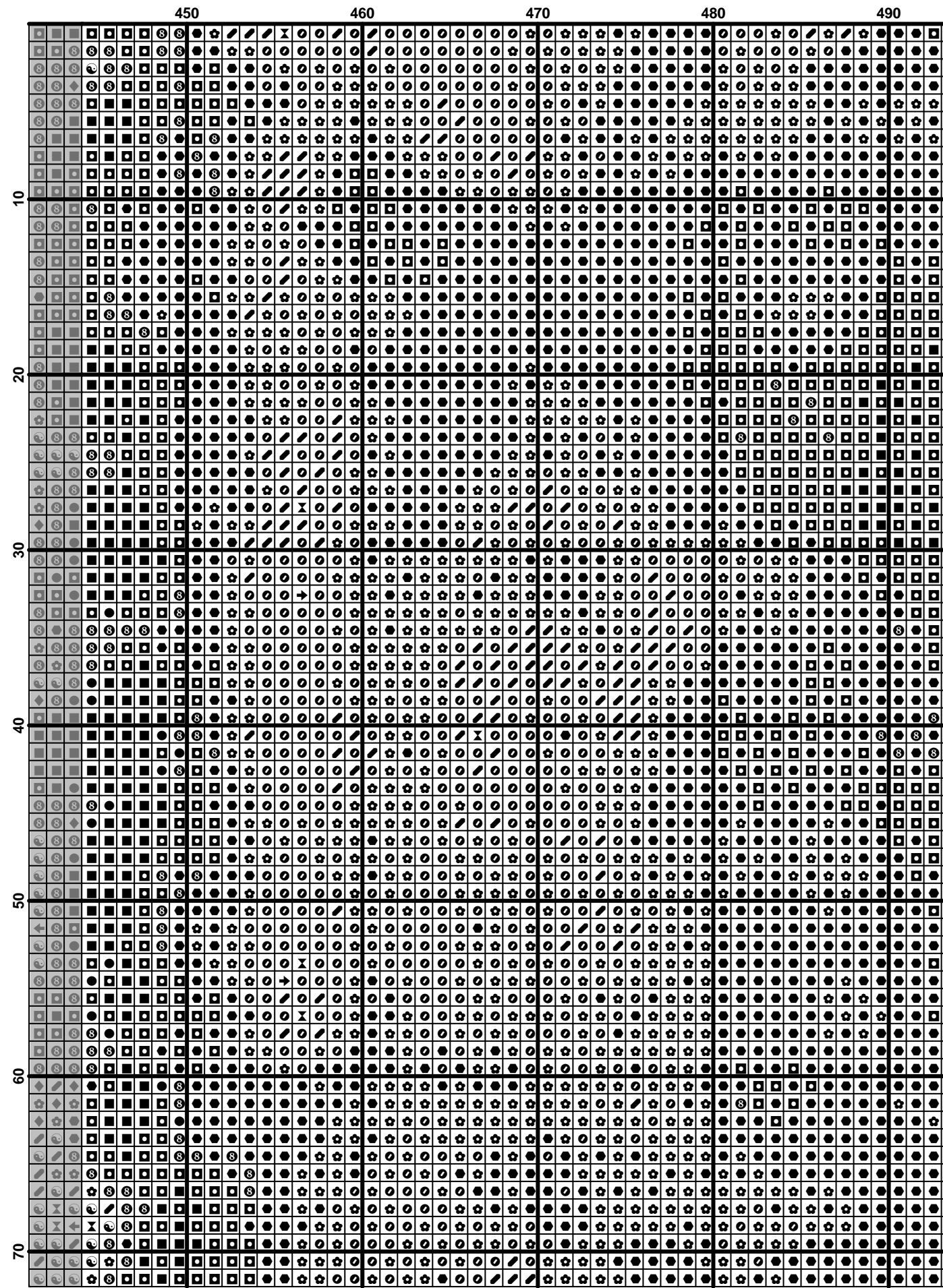


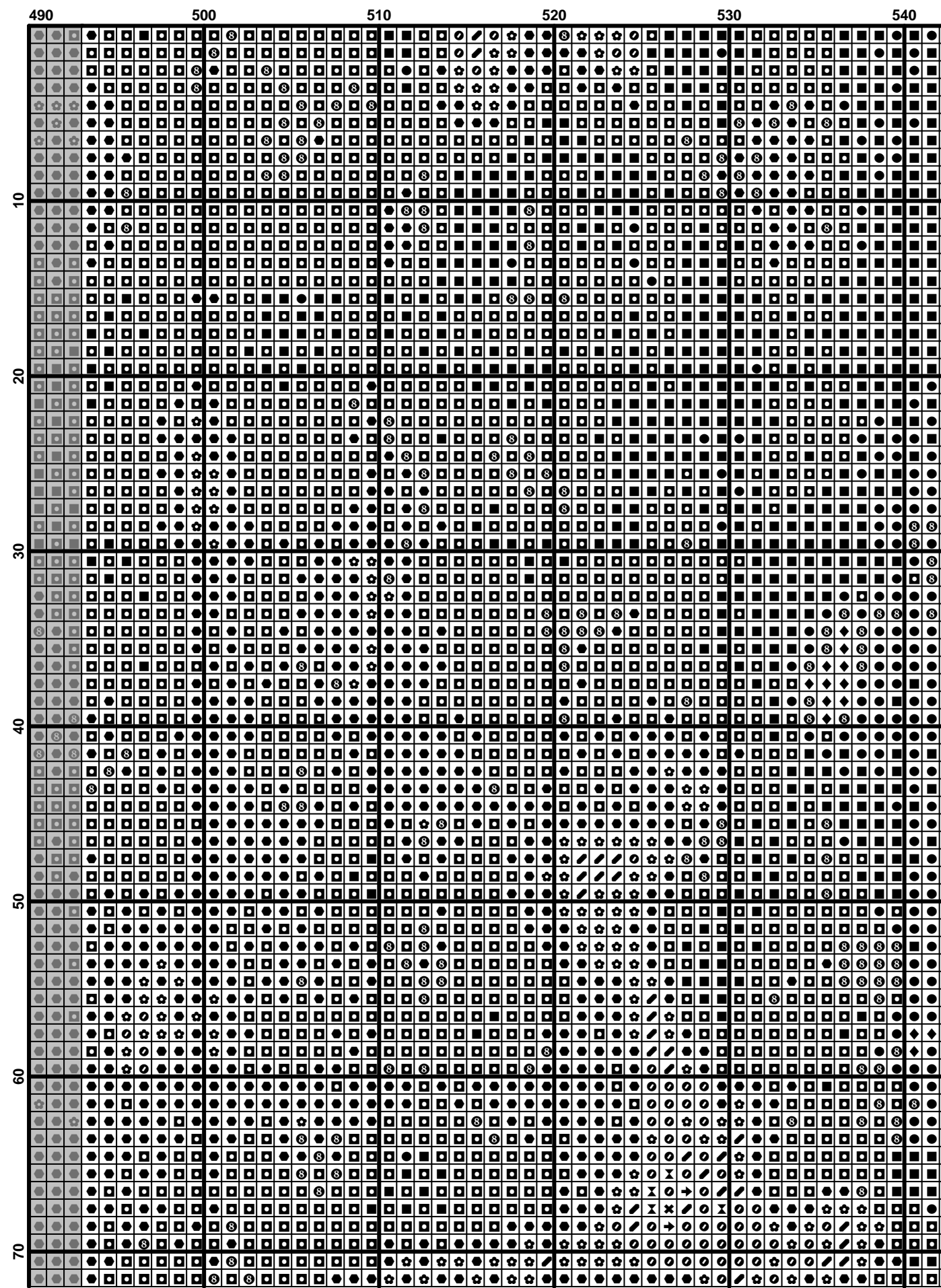


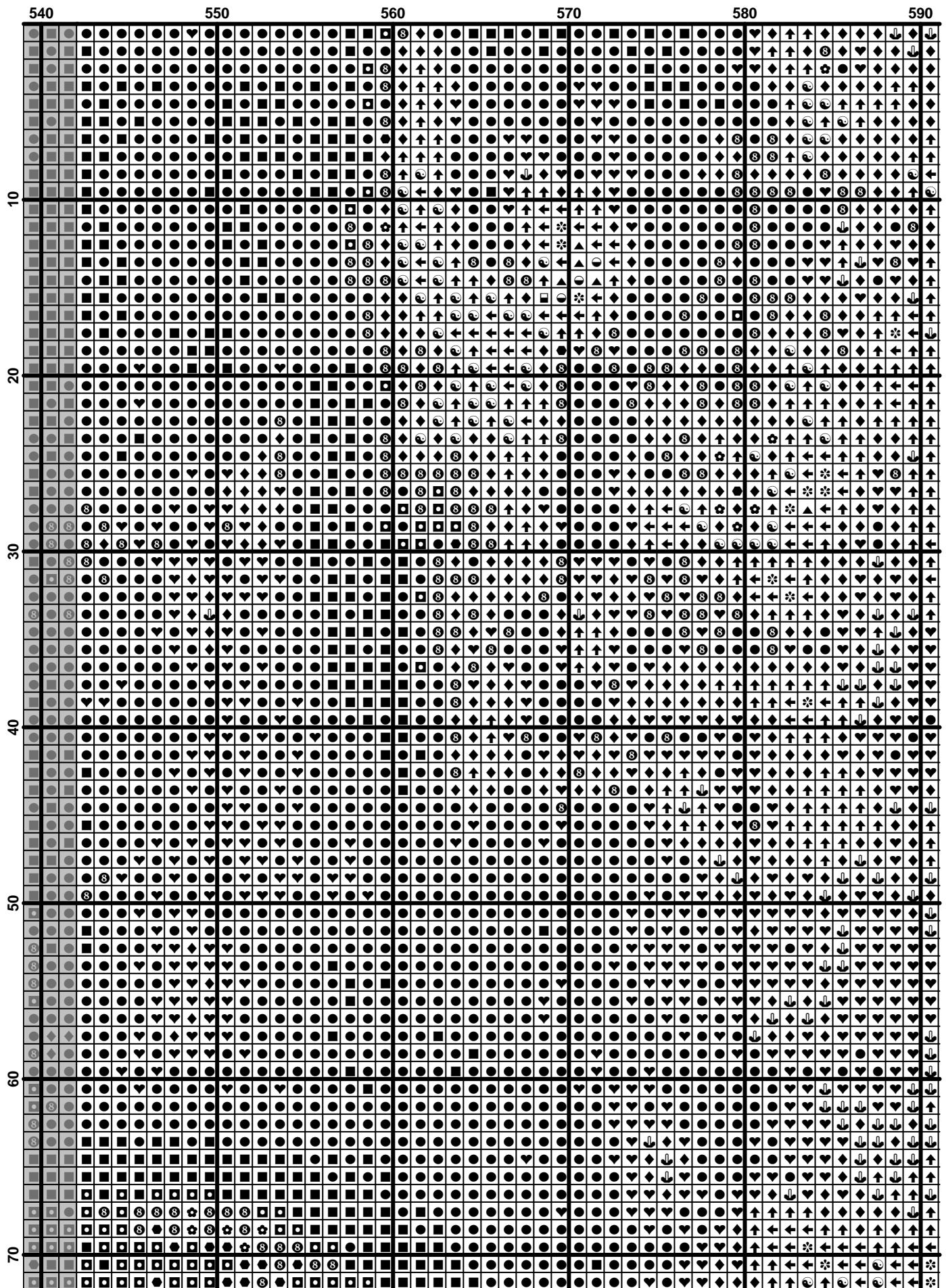


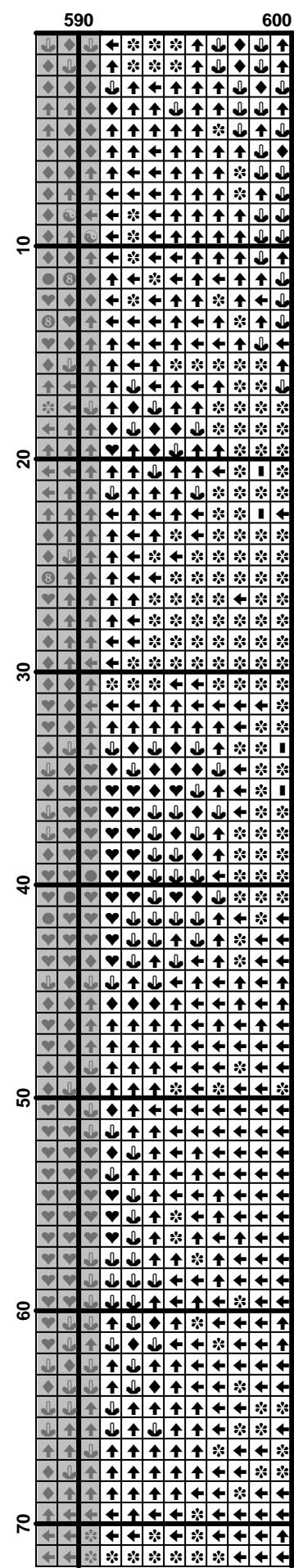












$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

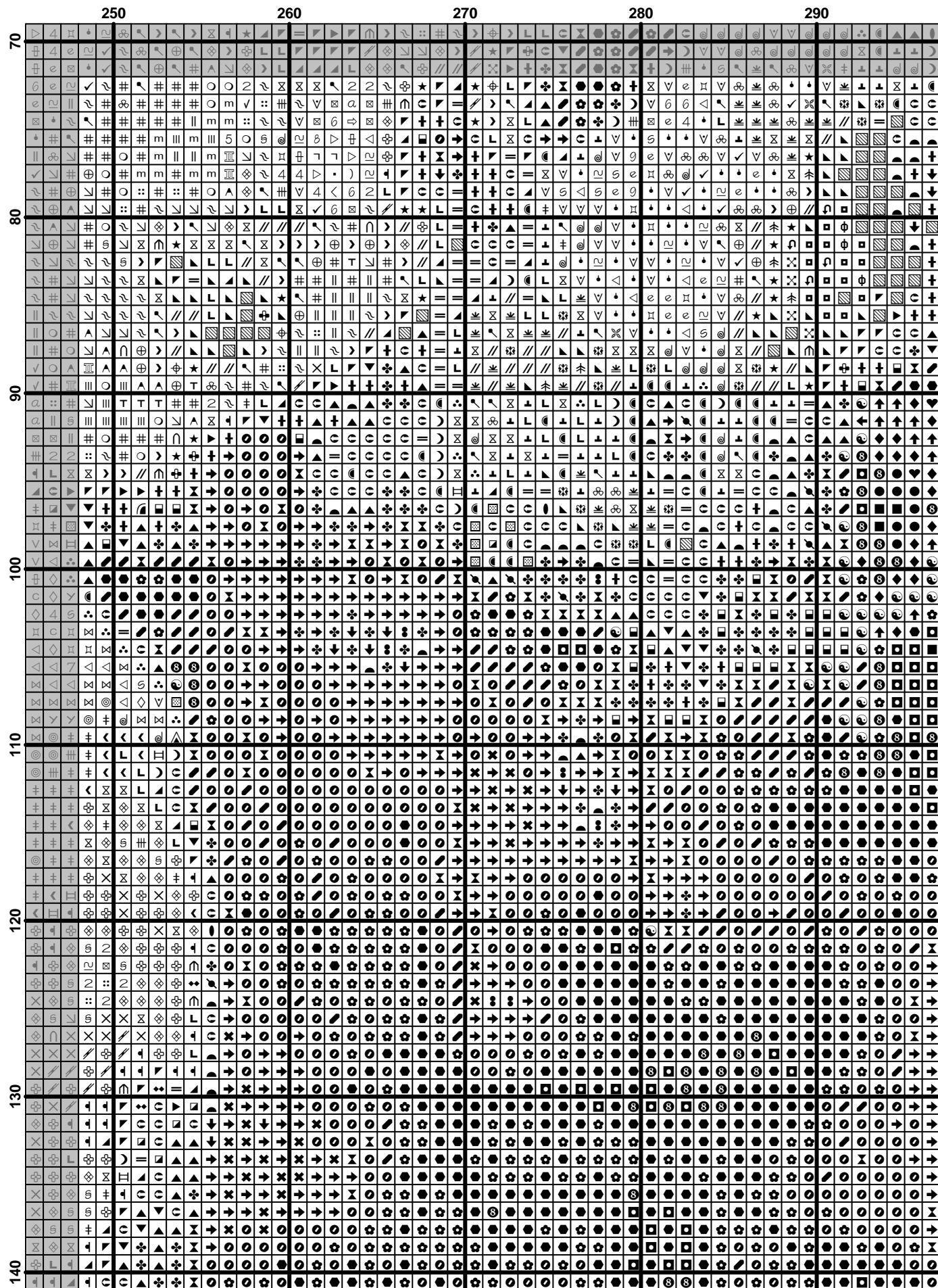
(29)

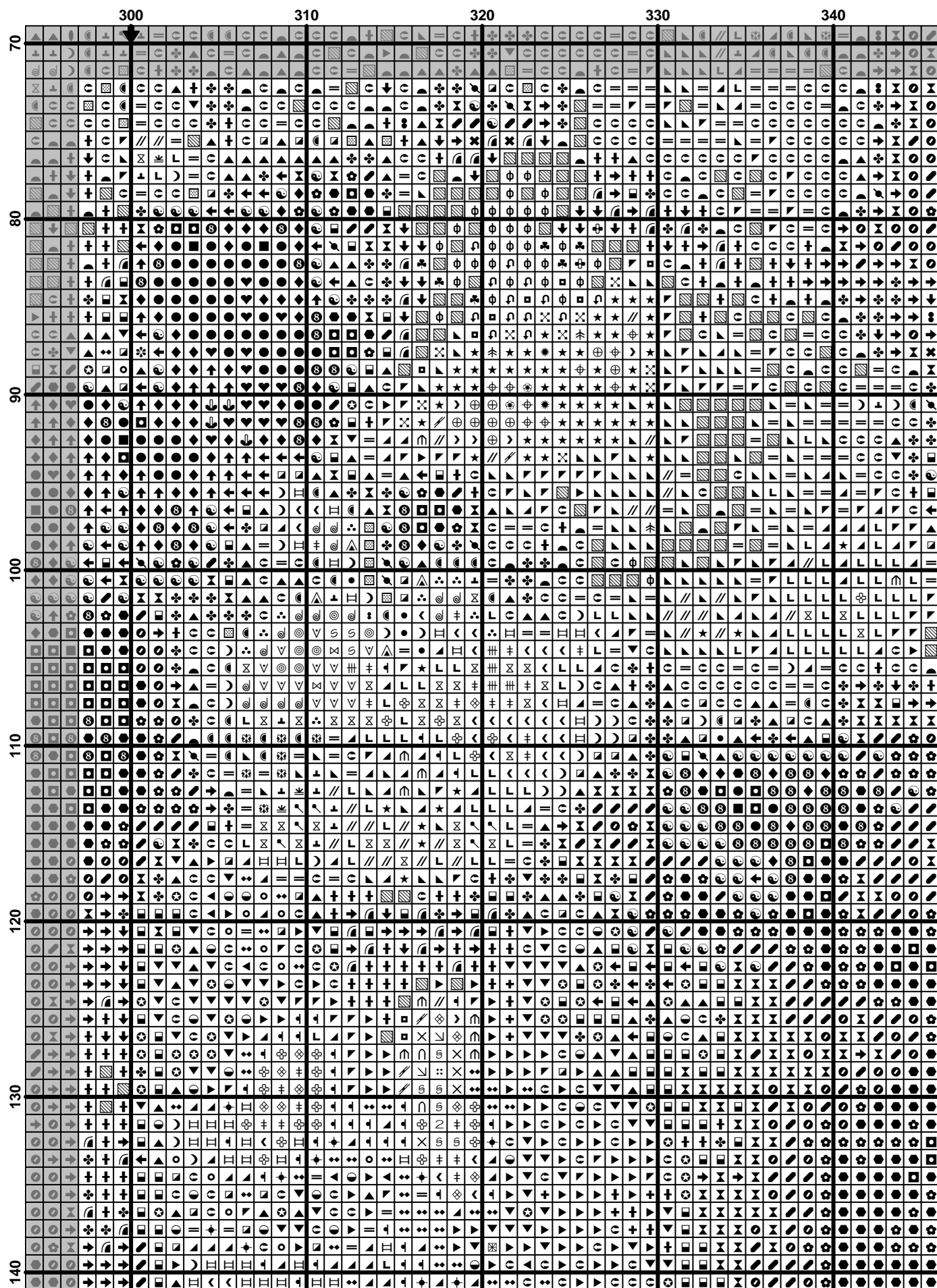
(30)

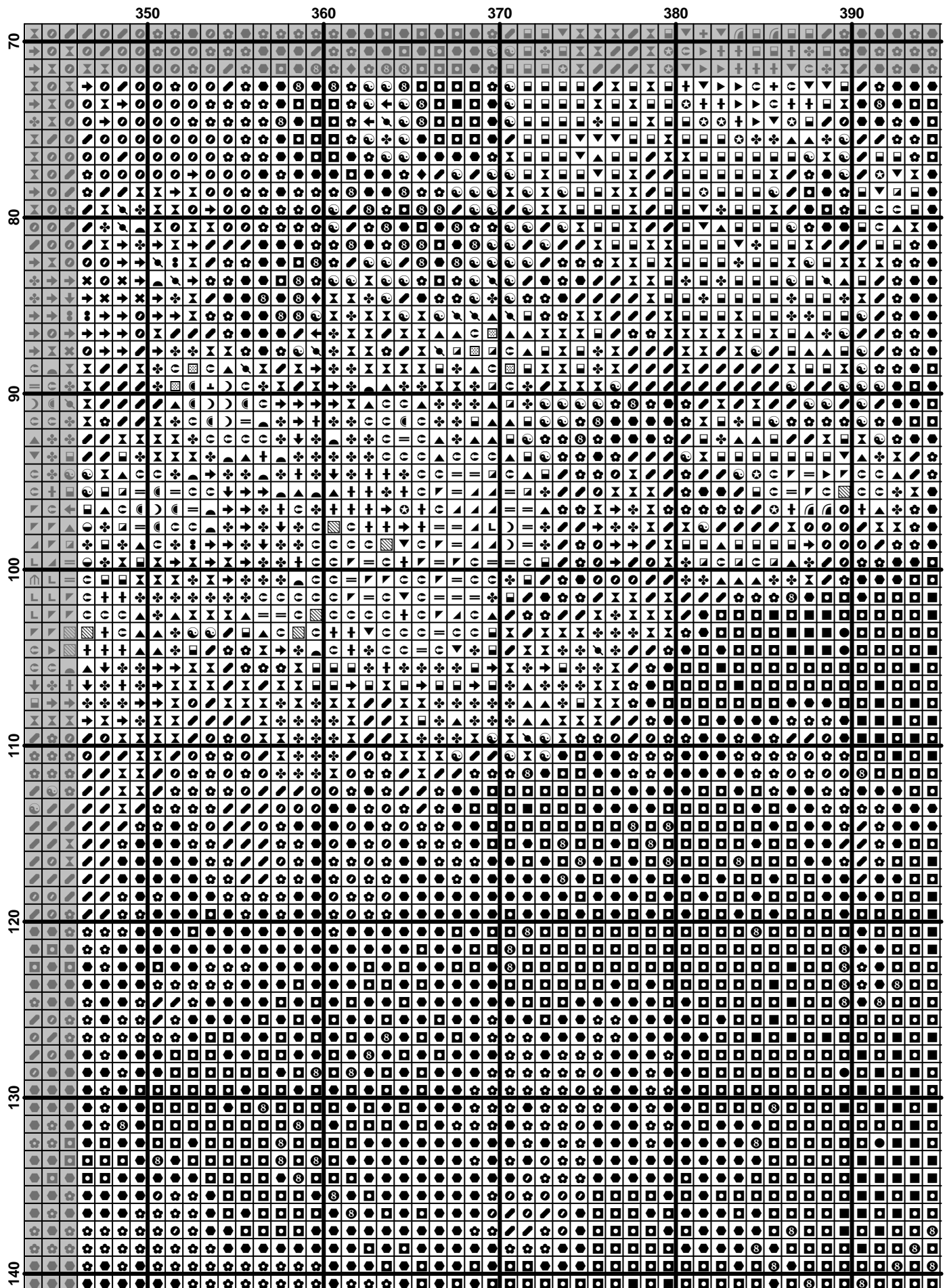


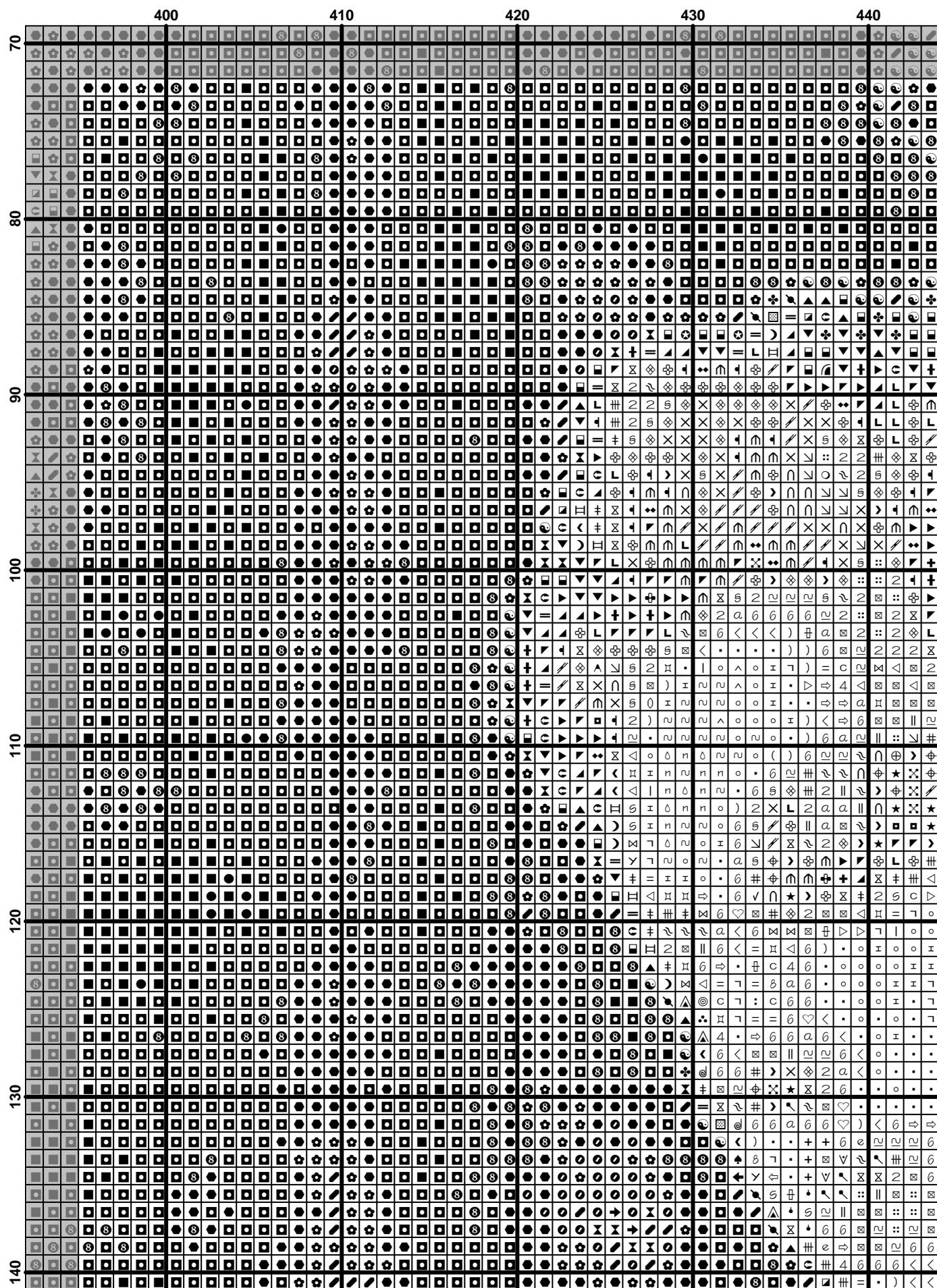
	150	160	170	180	190
70	...	...	...	...	...
80	...	...	...	...	...
90	...	...	...	...	...
100	...	...	...	...	...
110	...	...	...	...	...
120	...	...	...	...	...
130	...	...	...	...	...
140	...	...	...	...	...

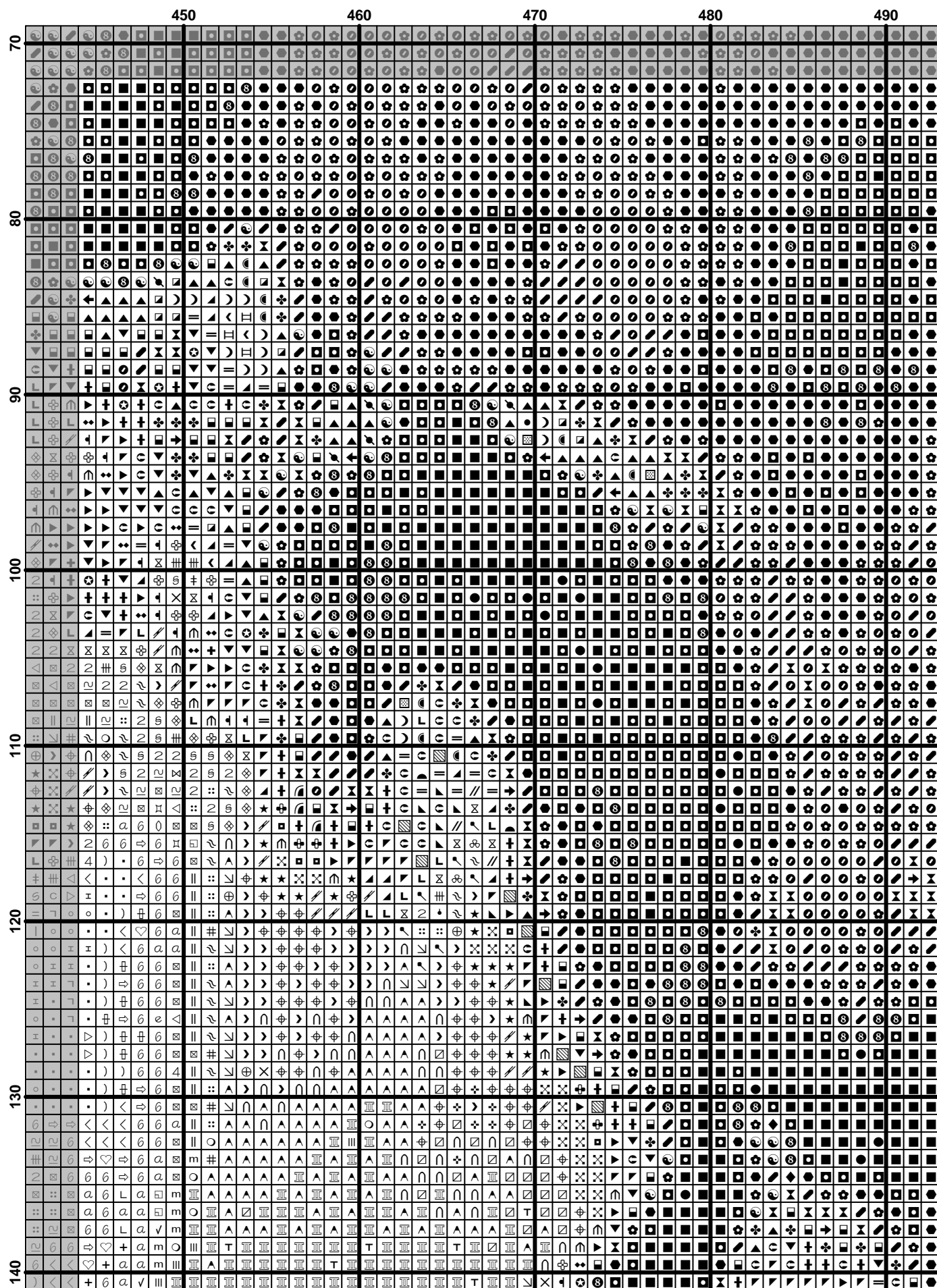
(32)



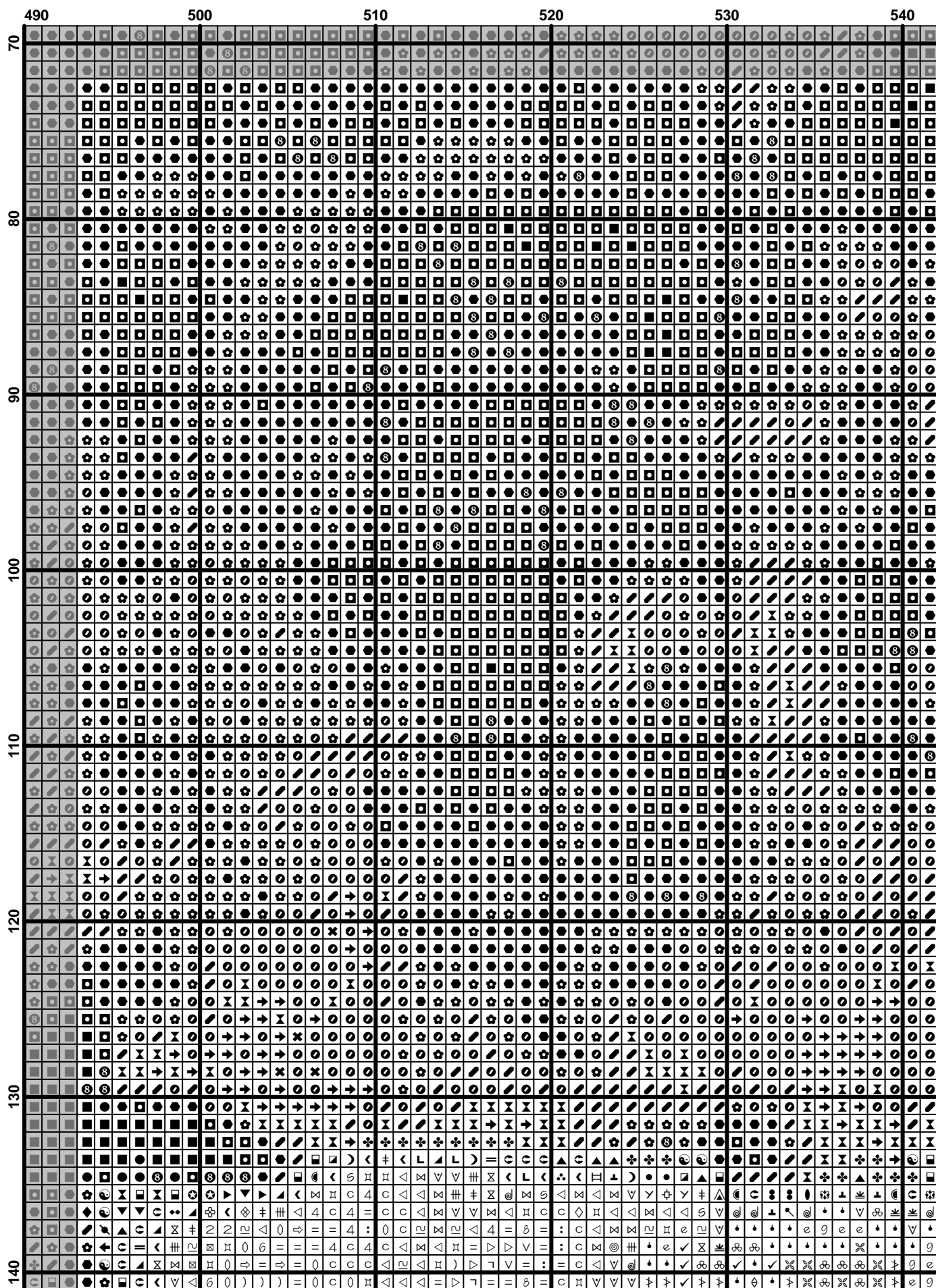


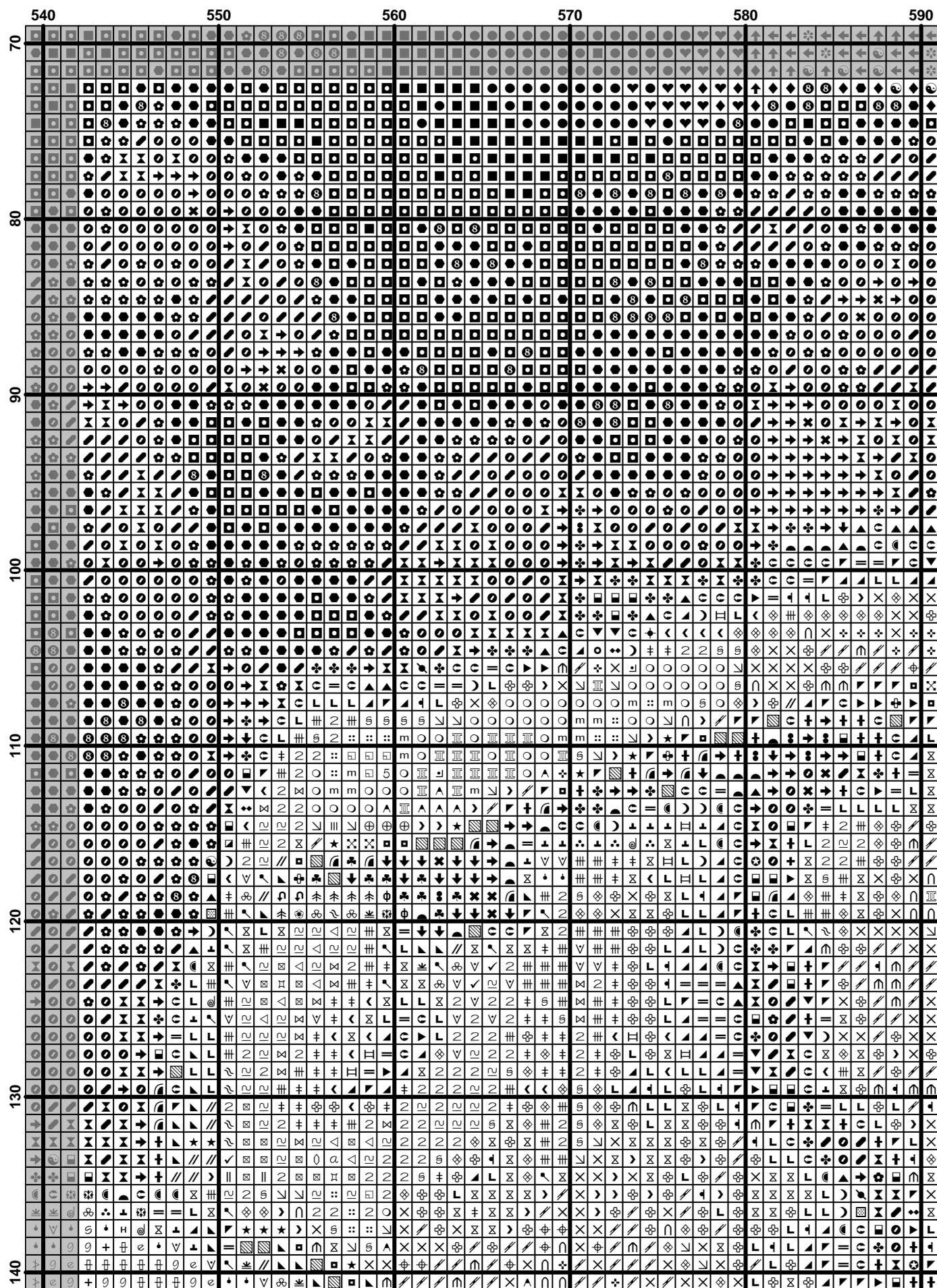


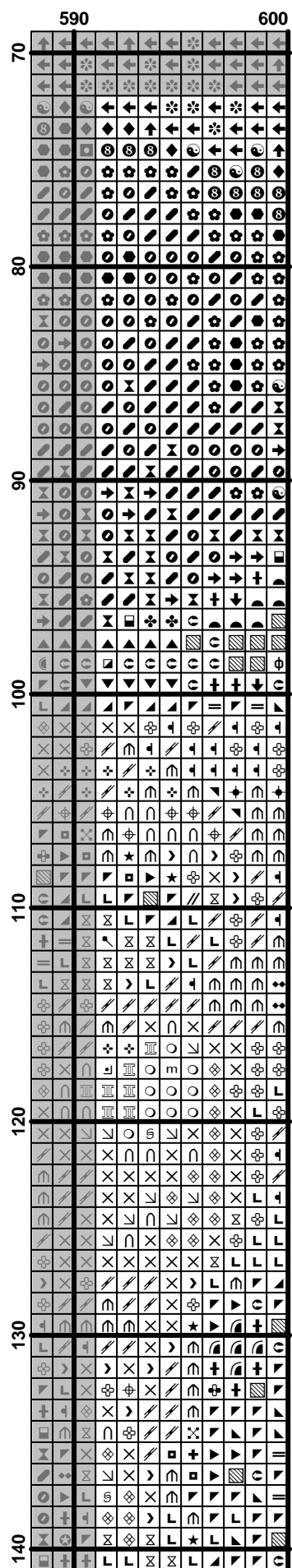




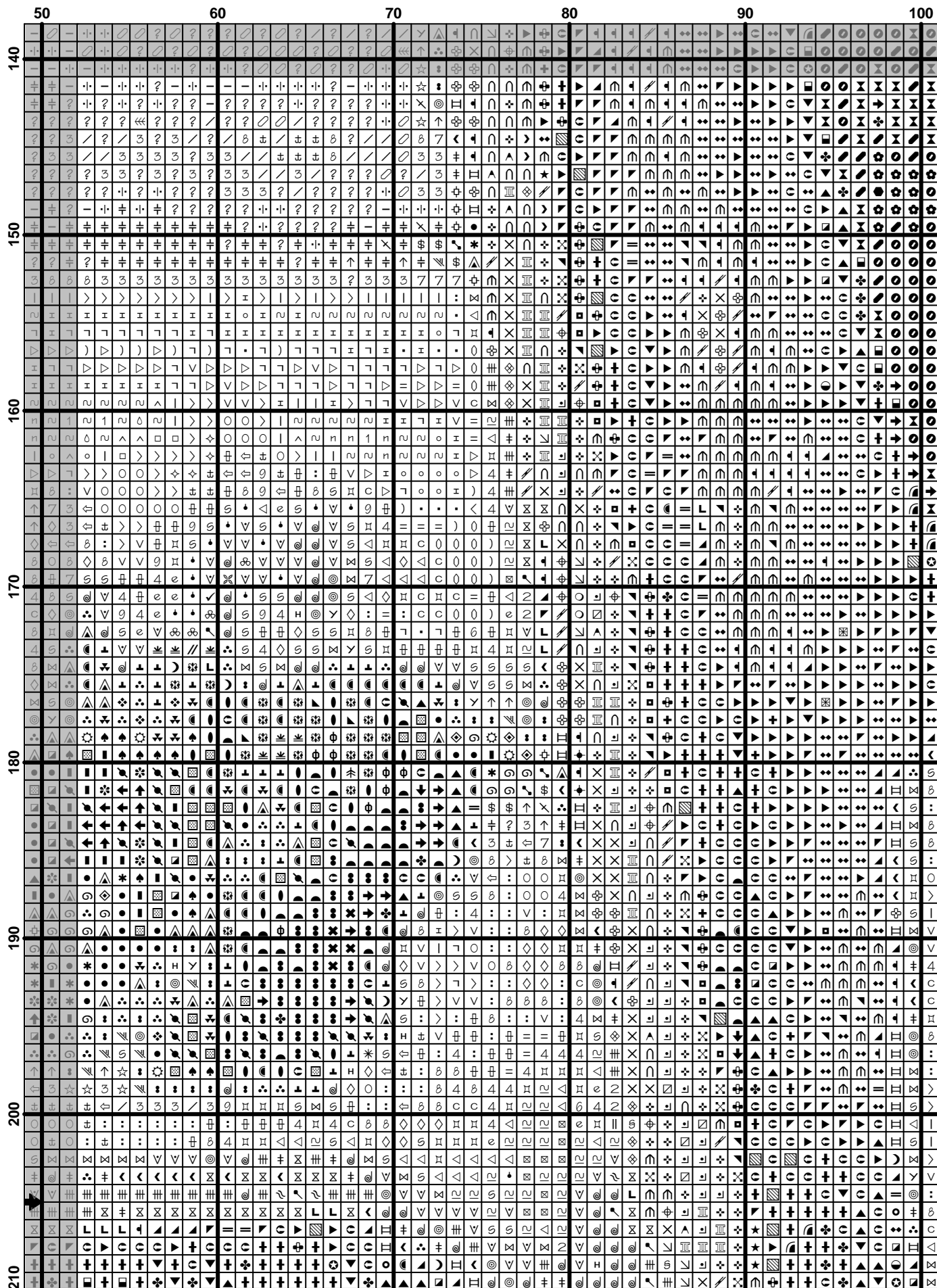








[illegible]

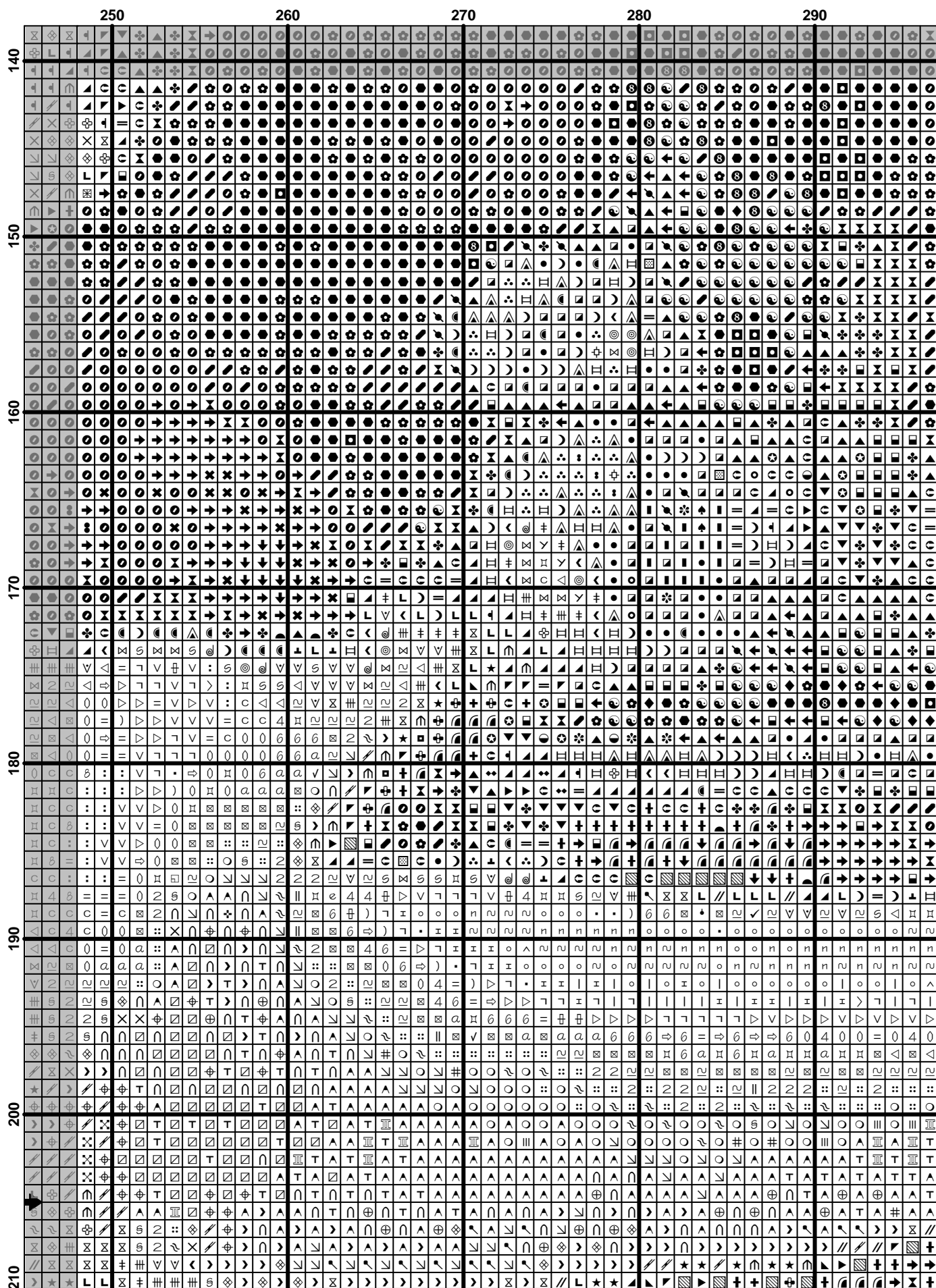


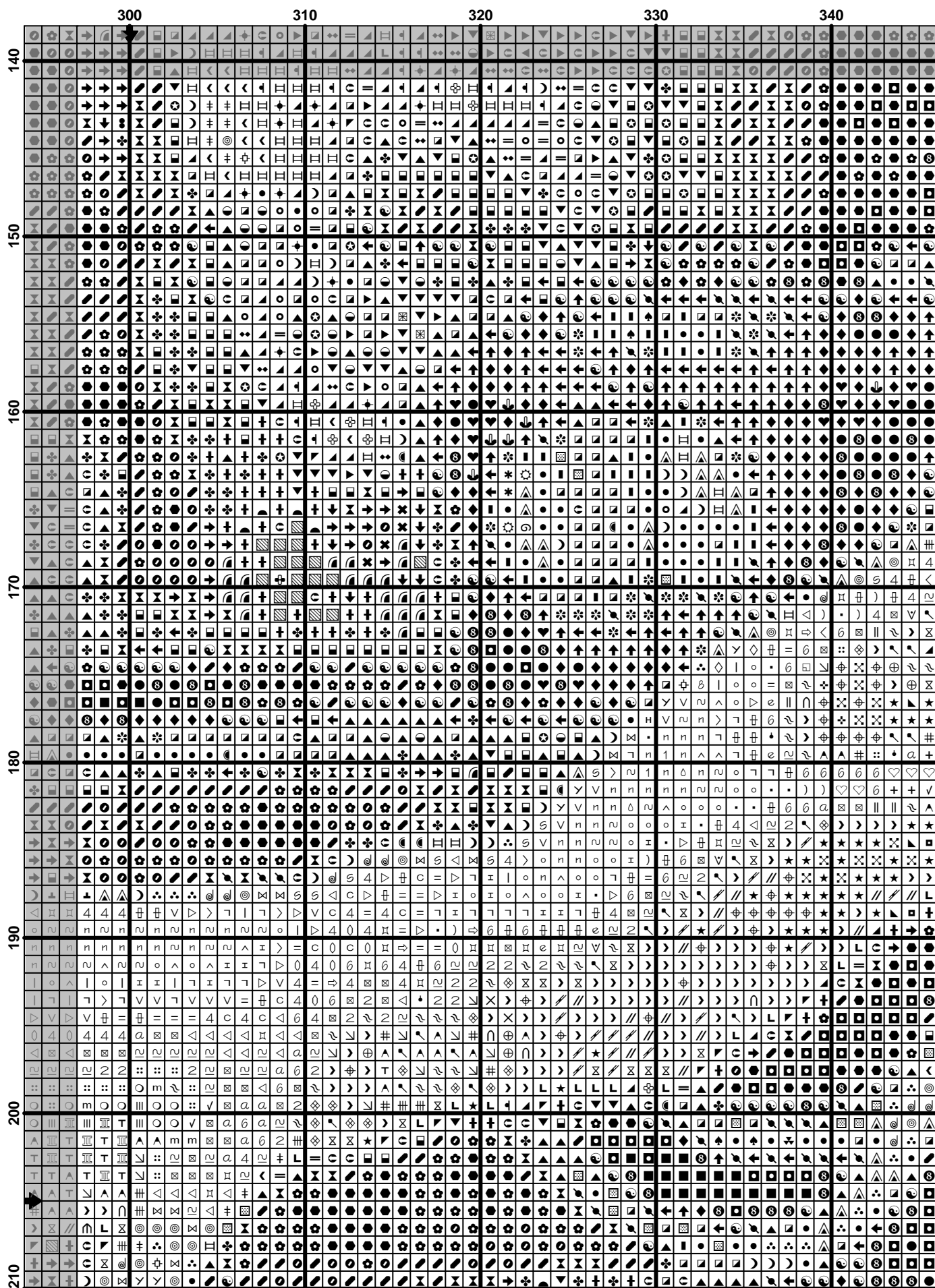
	100	110	120	130	140	150
140	...	...	...	...	...	...
150	...	...	...	...	...	...
160	...	...	...	...	...	...
170	...	...	...	...	...	...
180	...	...	...	...	...	...
190	...	...	...	...	...	...
200	...	...	...	...	...	...
210	...	...	...	...	...	...

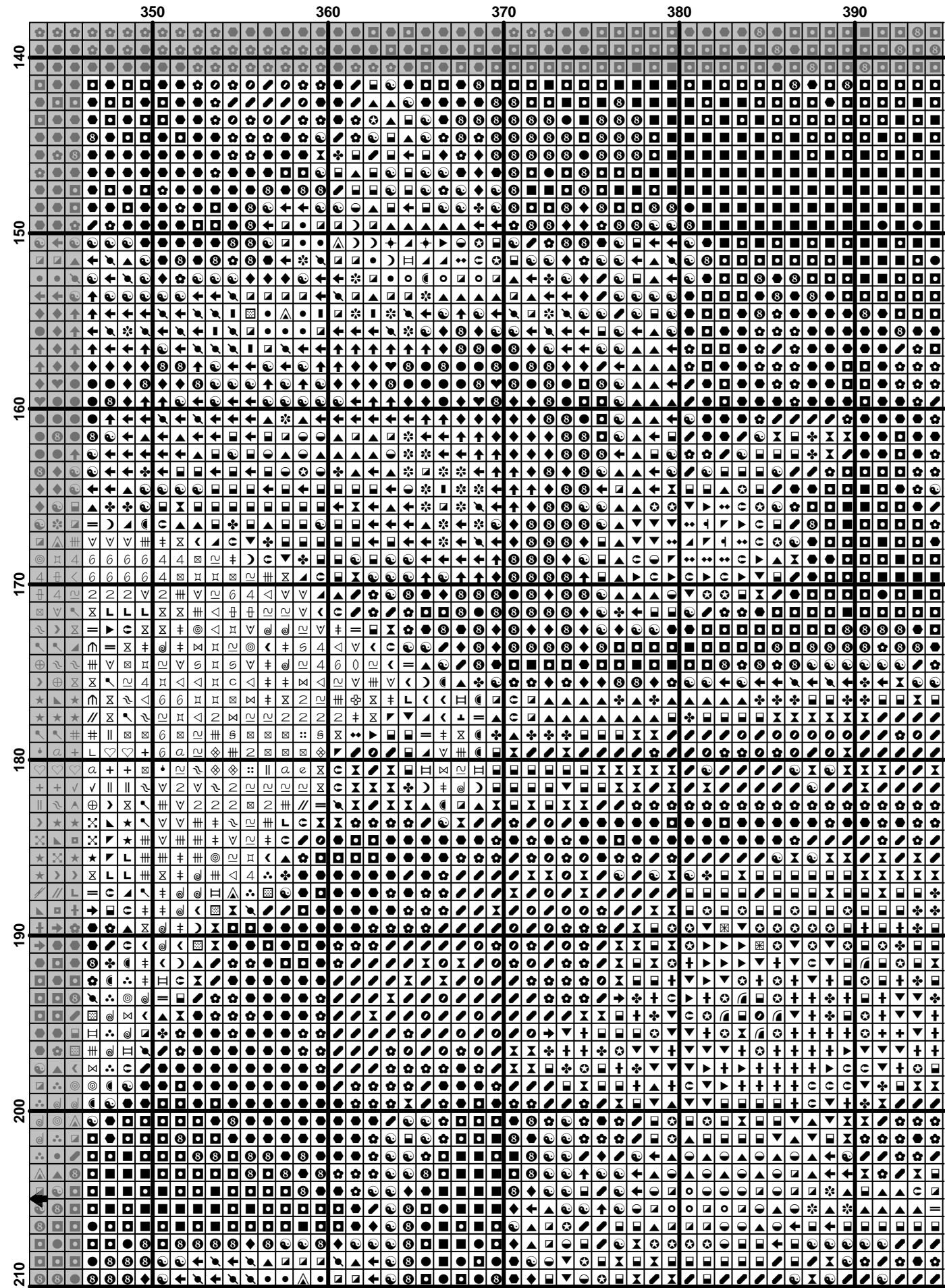
$$(43) \quad \mathcal{L}(\mathcal{A}) \subseteq \mathcal{L}(\mathcal{B}) \iff \mathcal{A} \subseteq \mathcal{B} \quad (44)$$

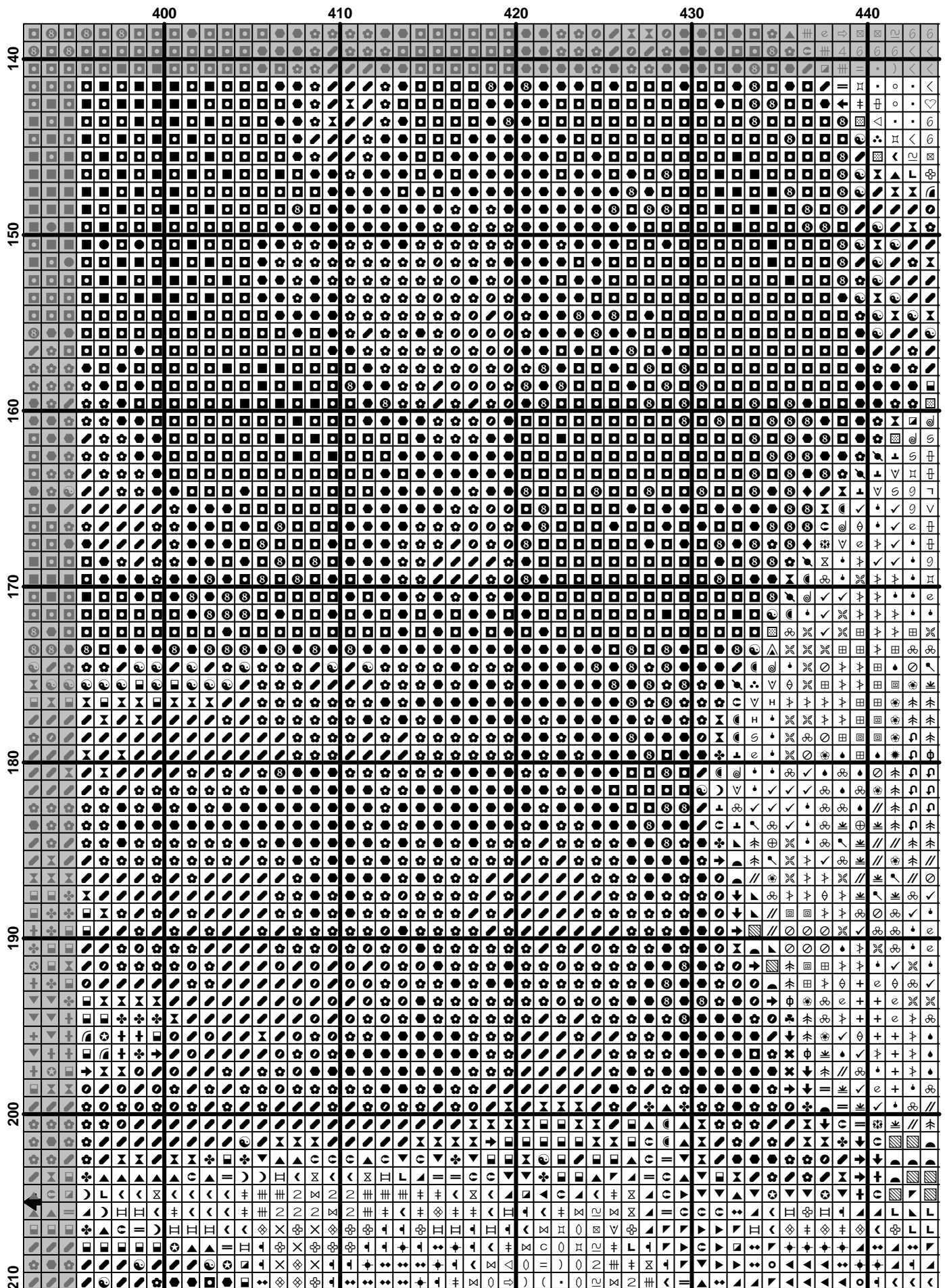
(45)



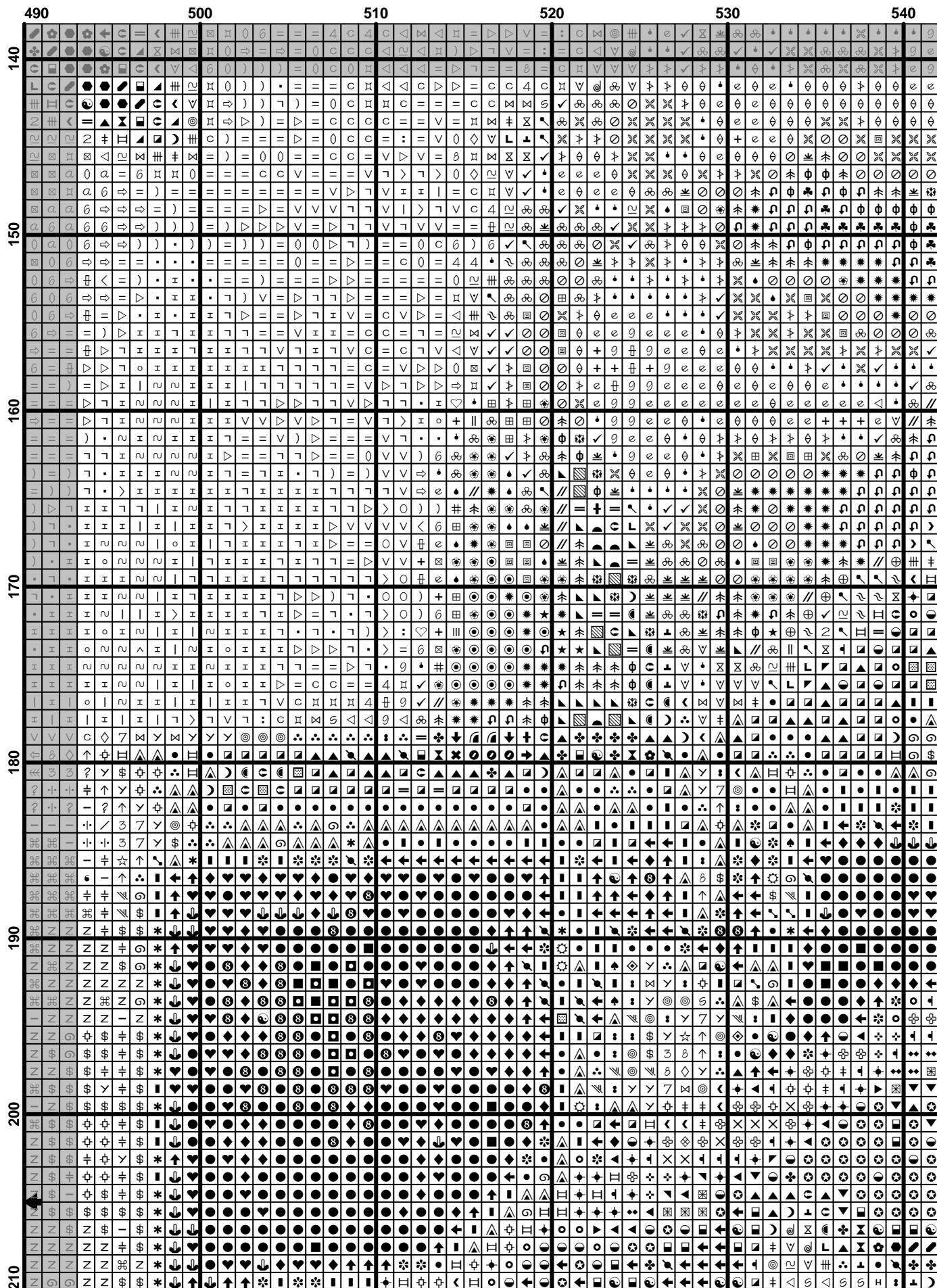


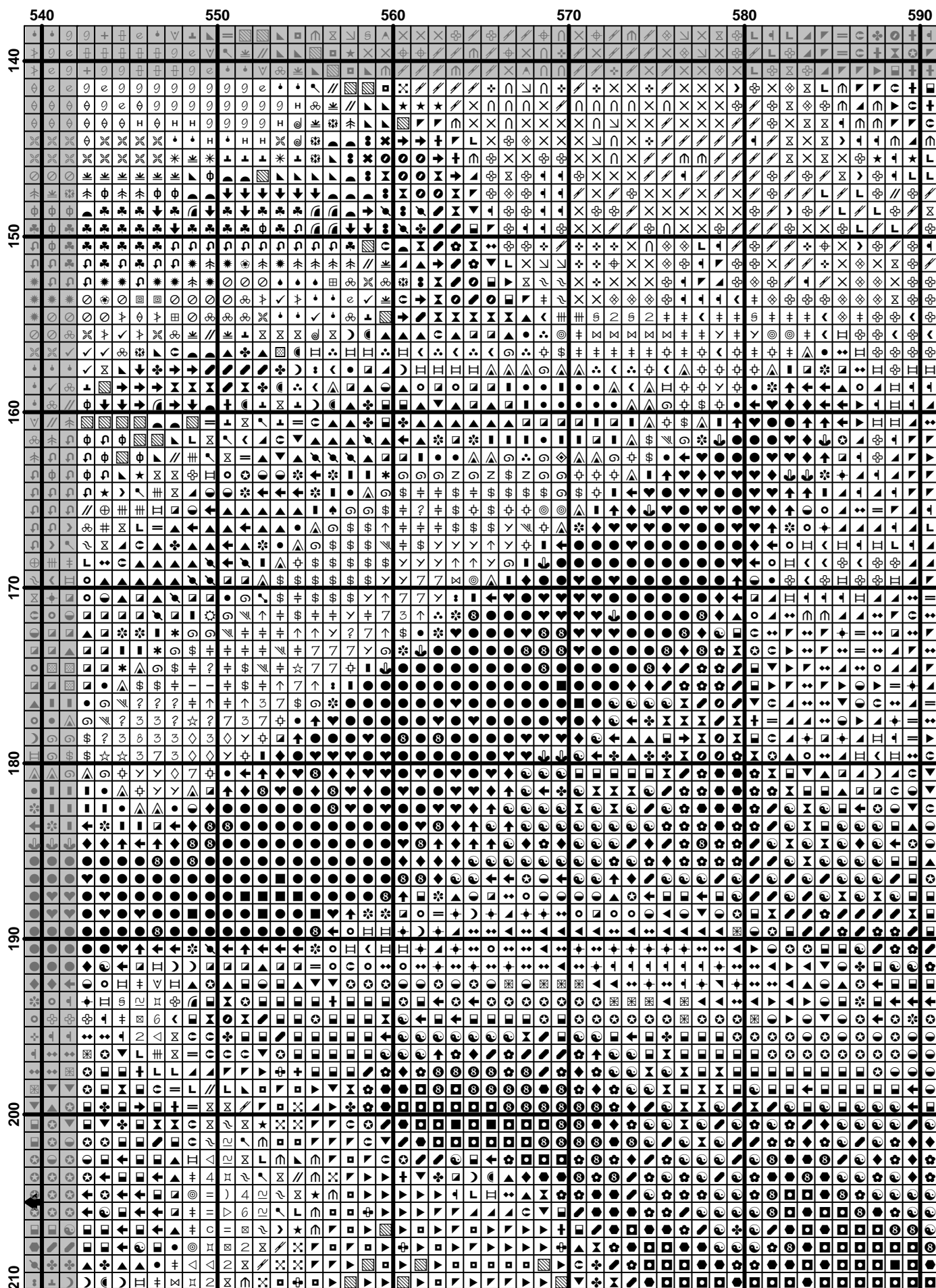


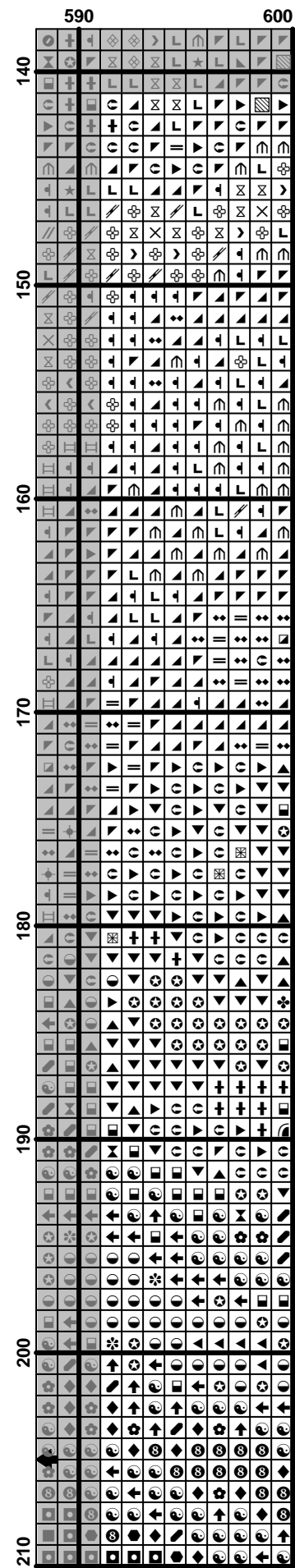




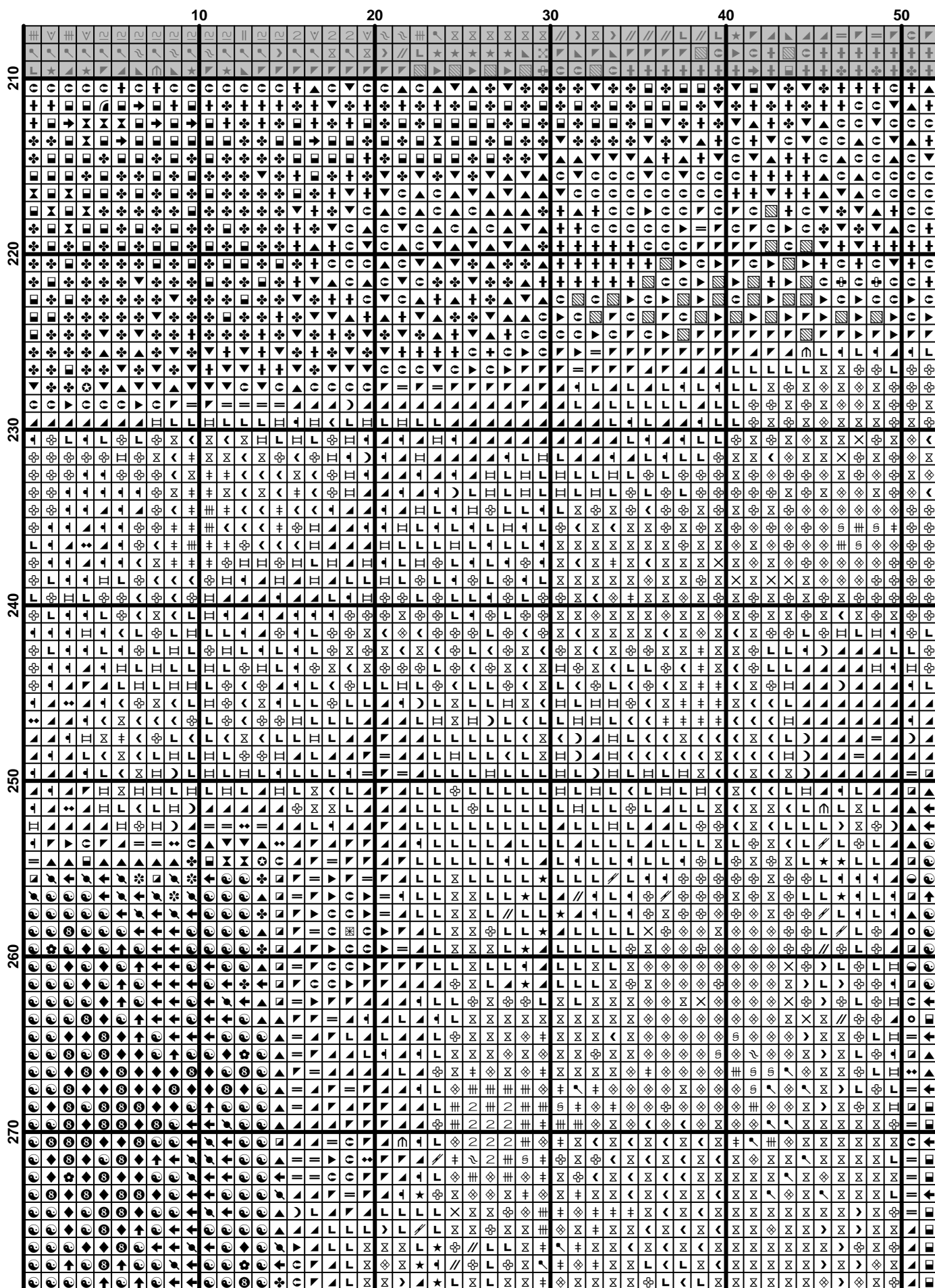
(50)

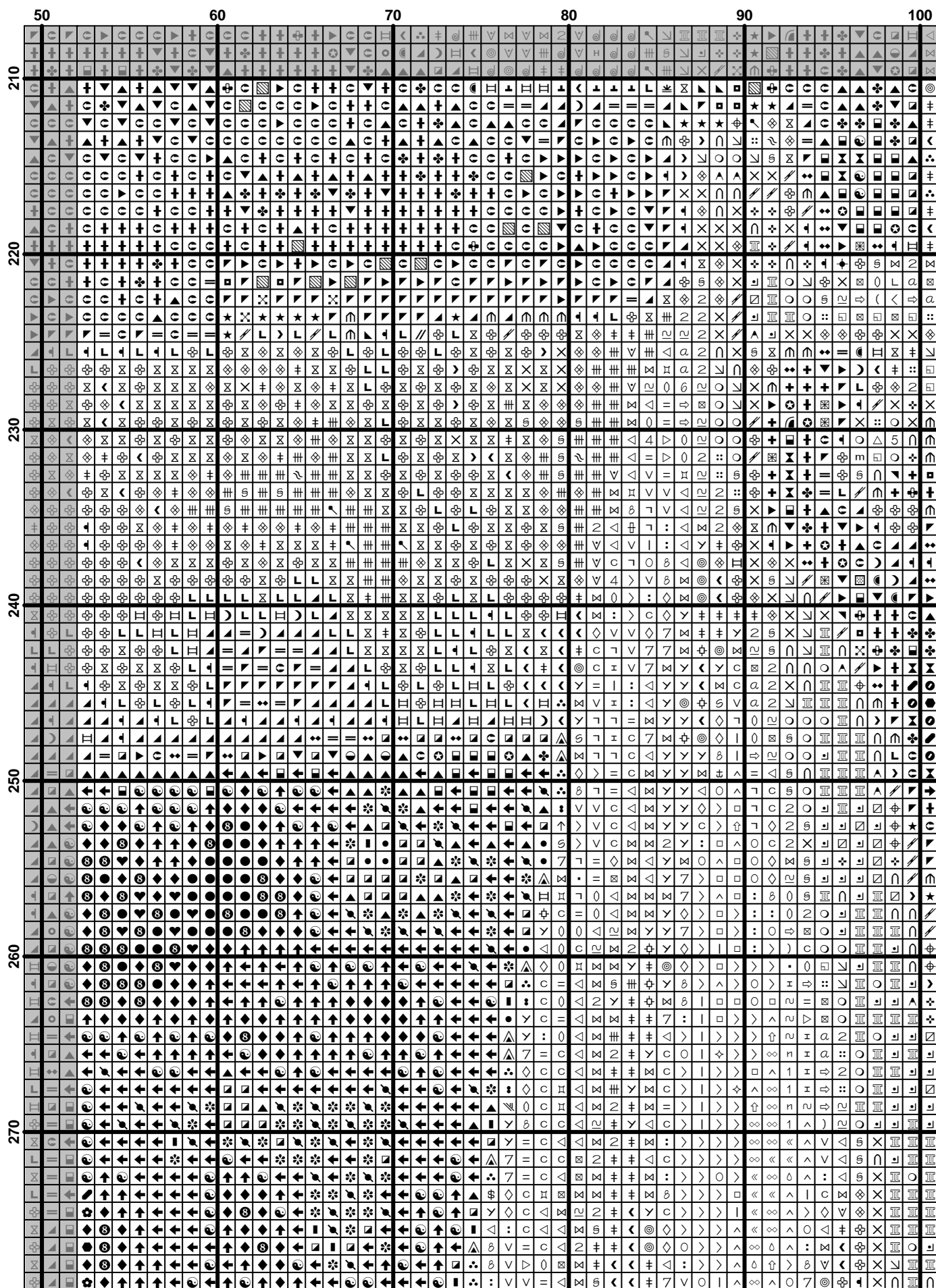




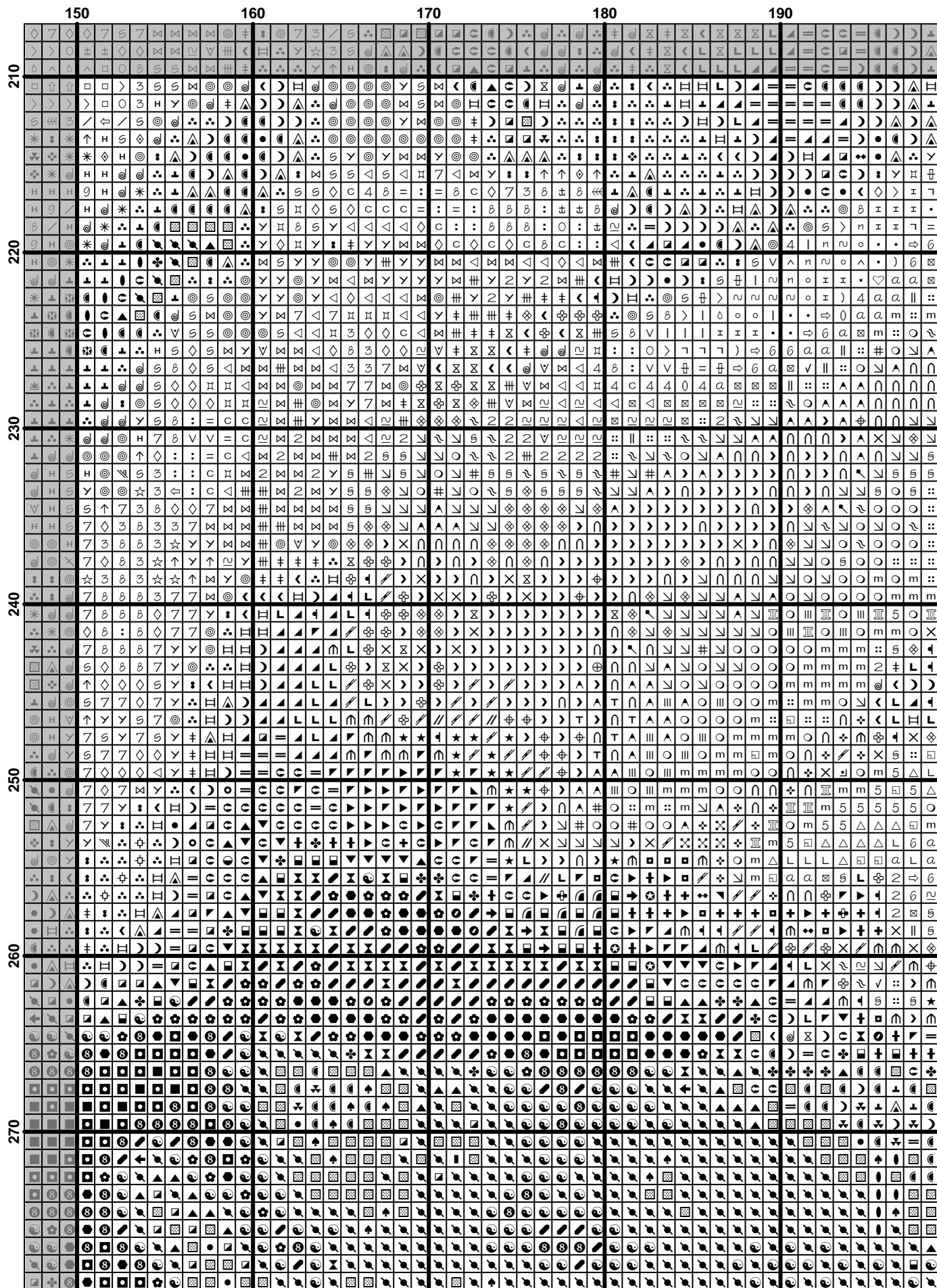








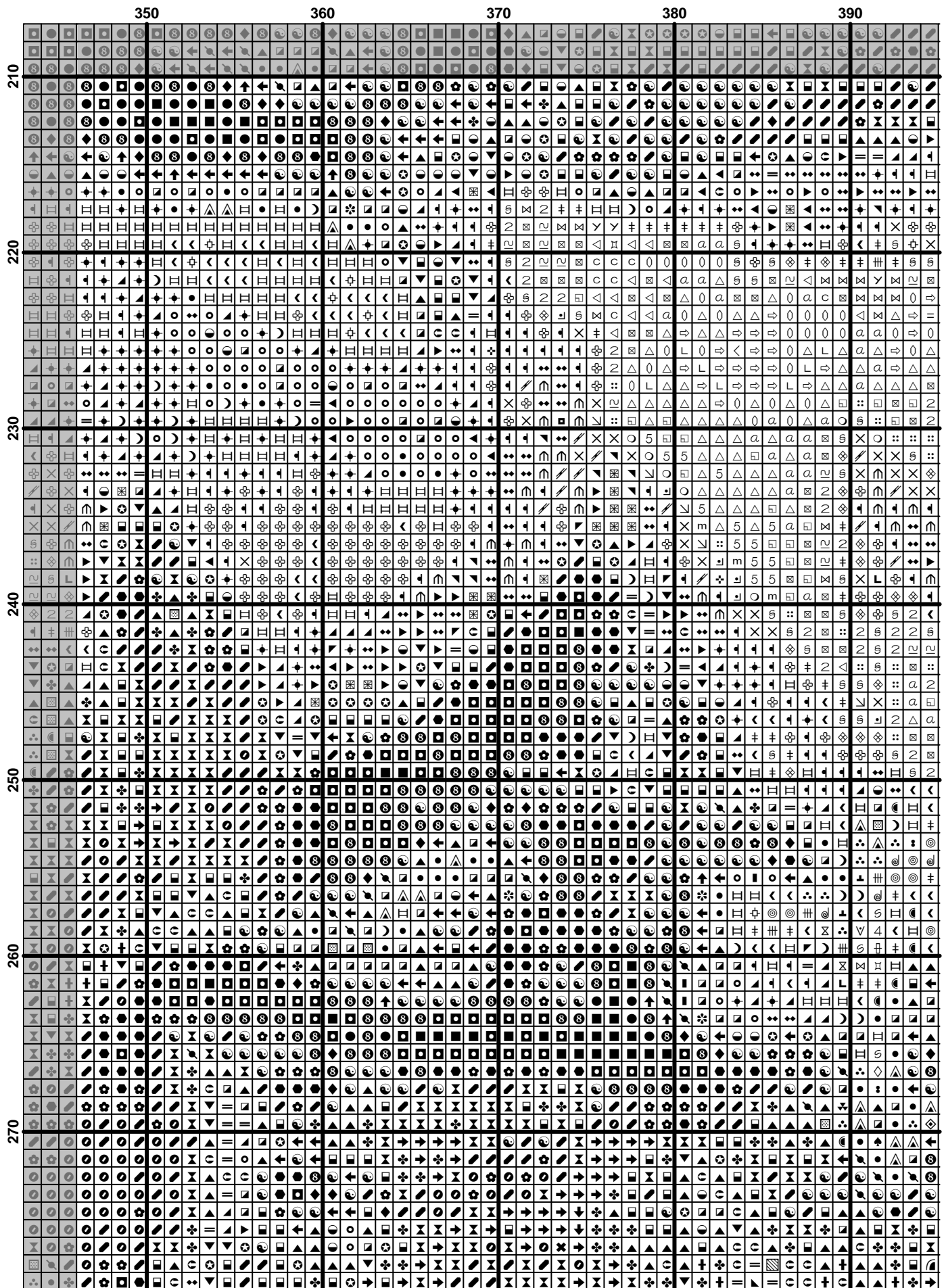
(56)



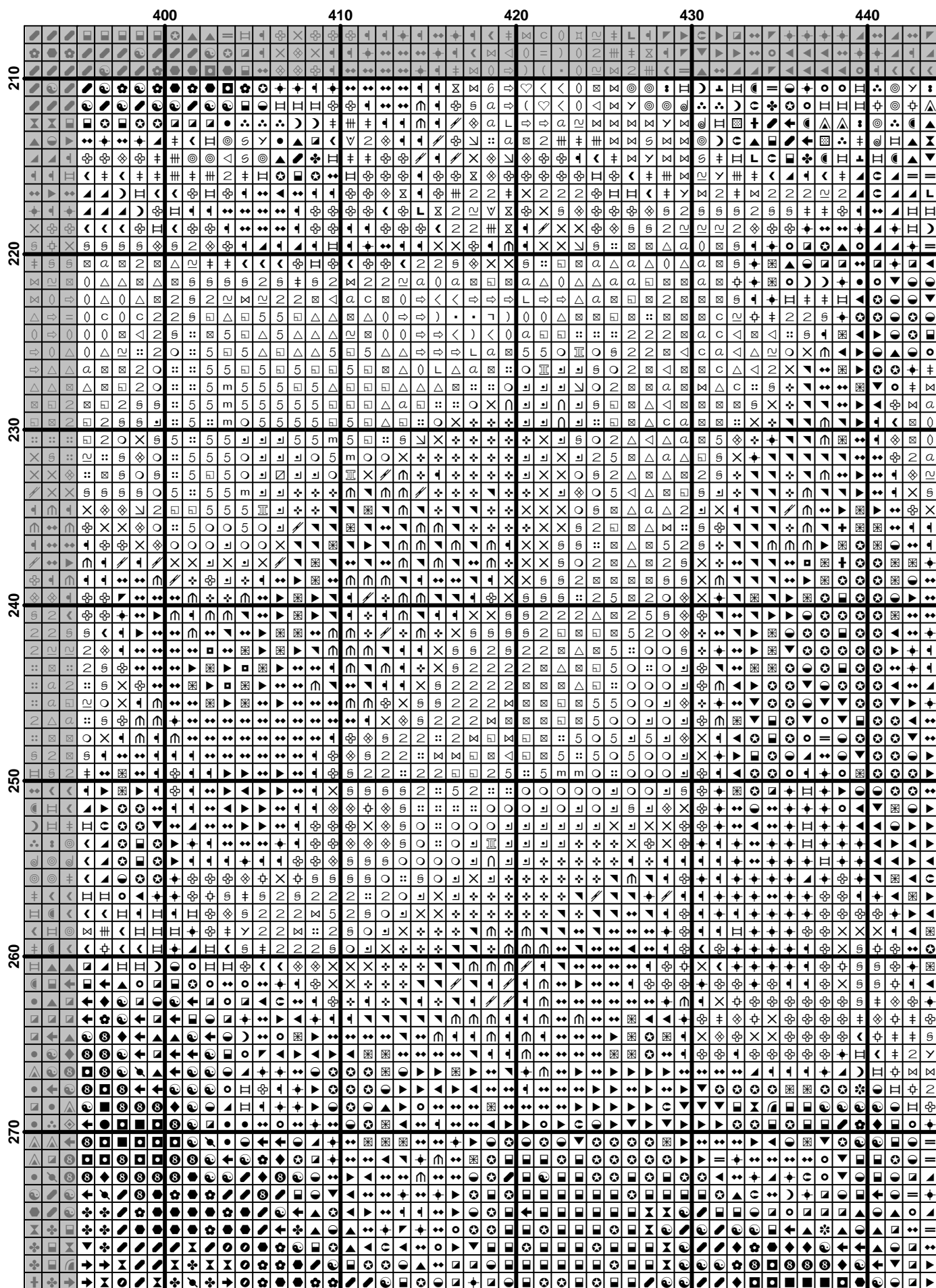
(58)

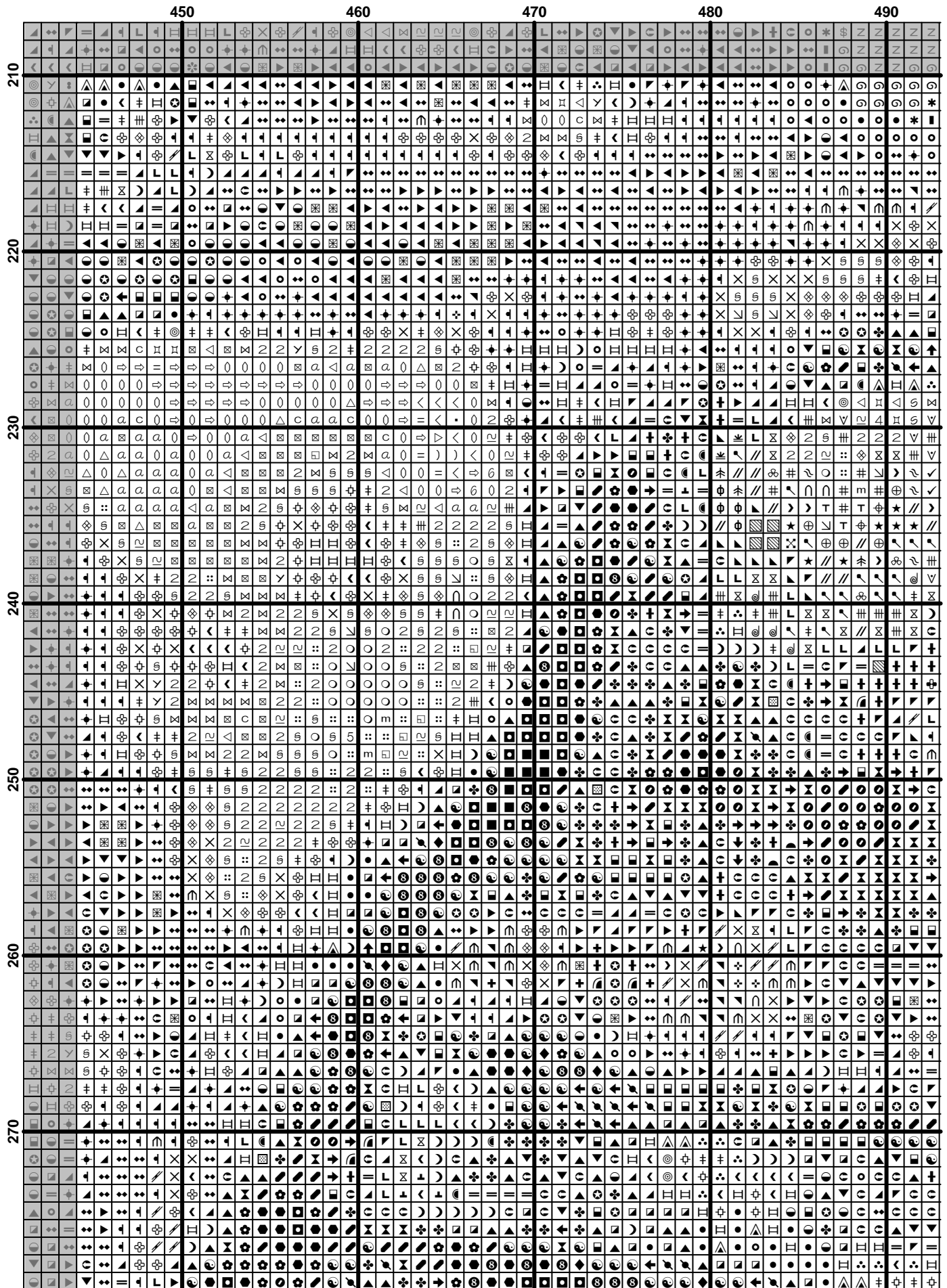
	250	260	270	280	290
210	...	...	...	...	...
220	...	...	...	...	...
230	...	...	...	...	...
240	...	...	...	...	...
250	...	...	...	...	...
260	...	...	...	...	...
270	...	...	...	...	...

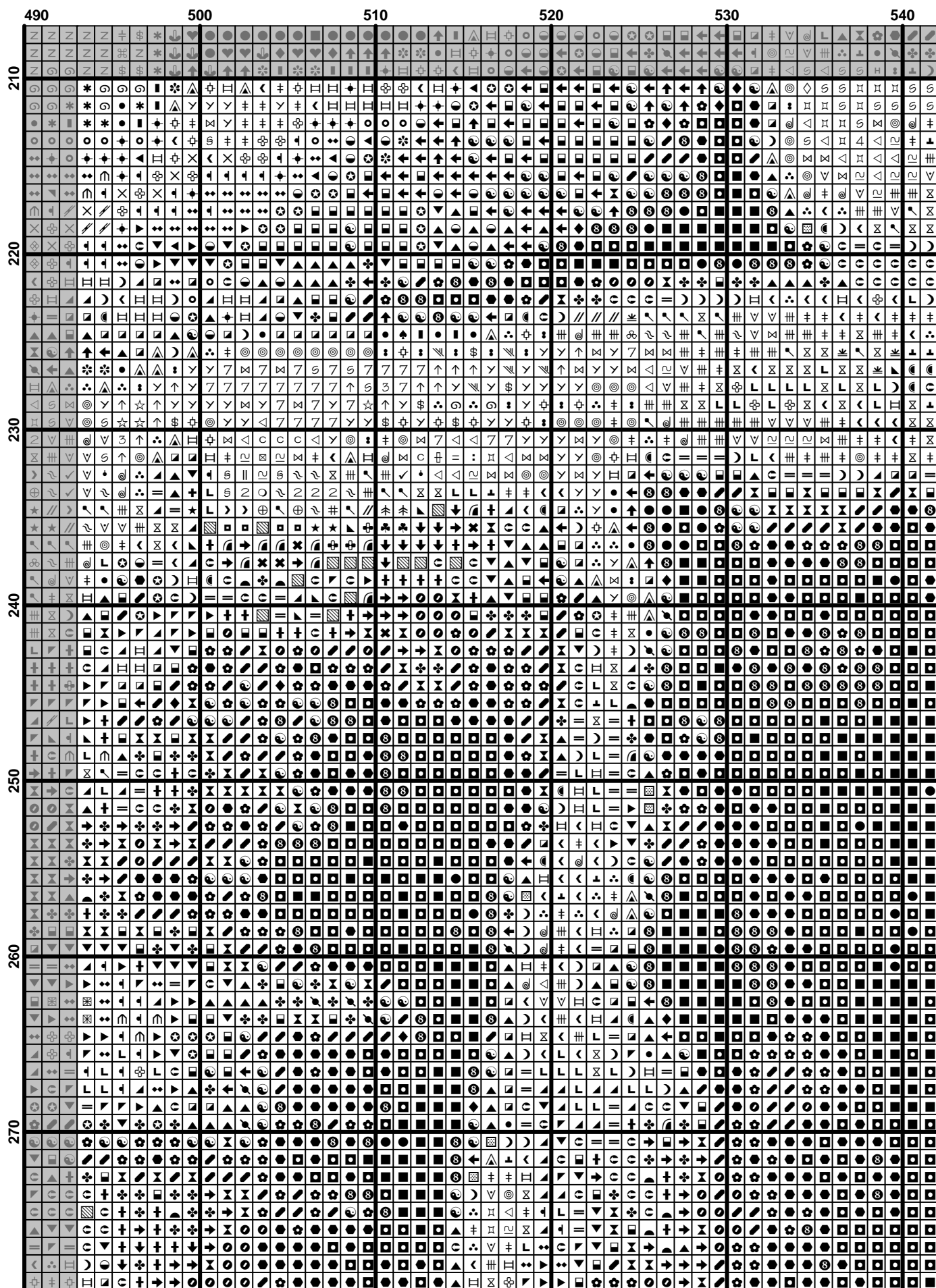
	300	310	320	330	340
210					
220					
230					
240					
250					
260					
270					

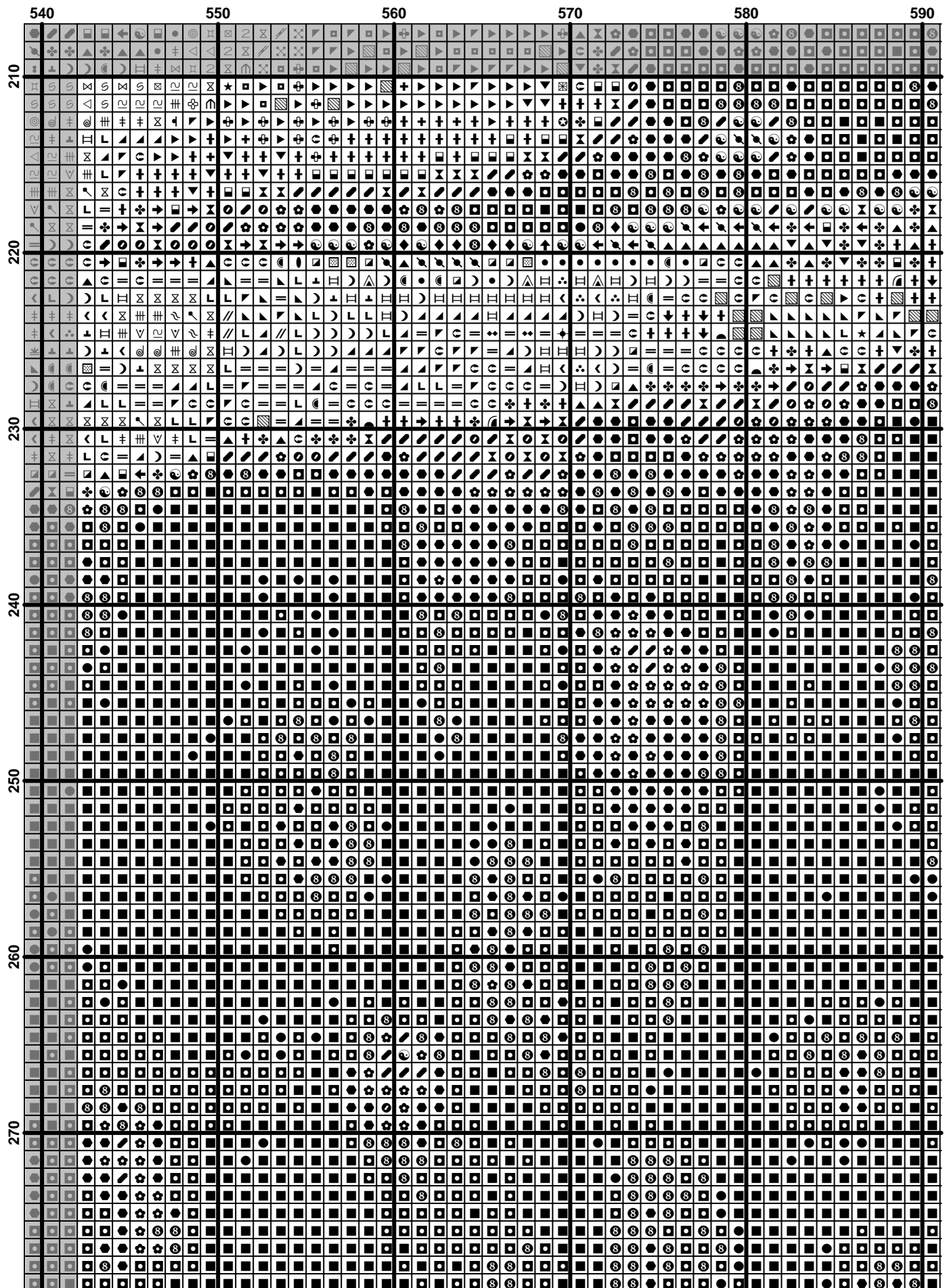


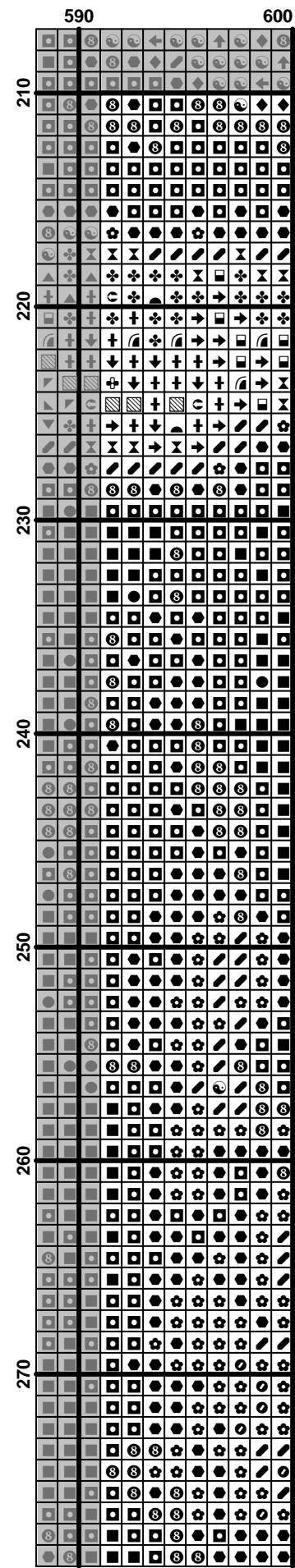


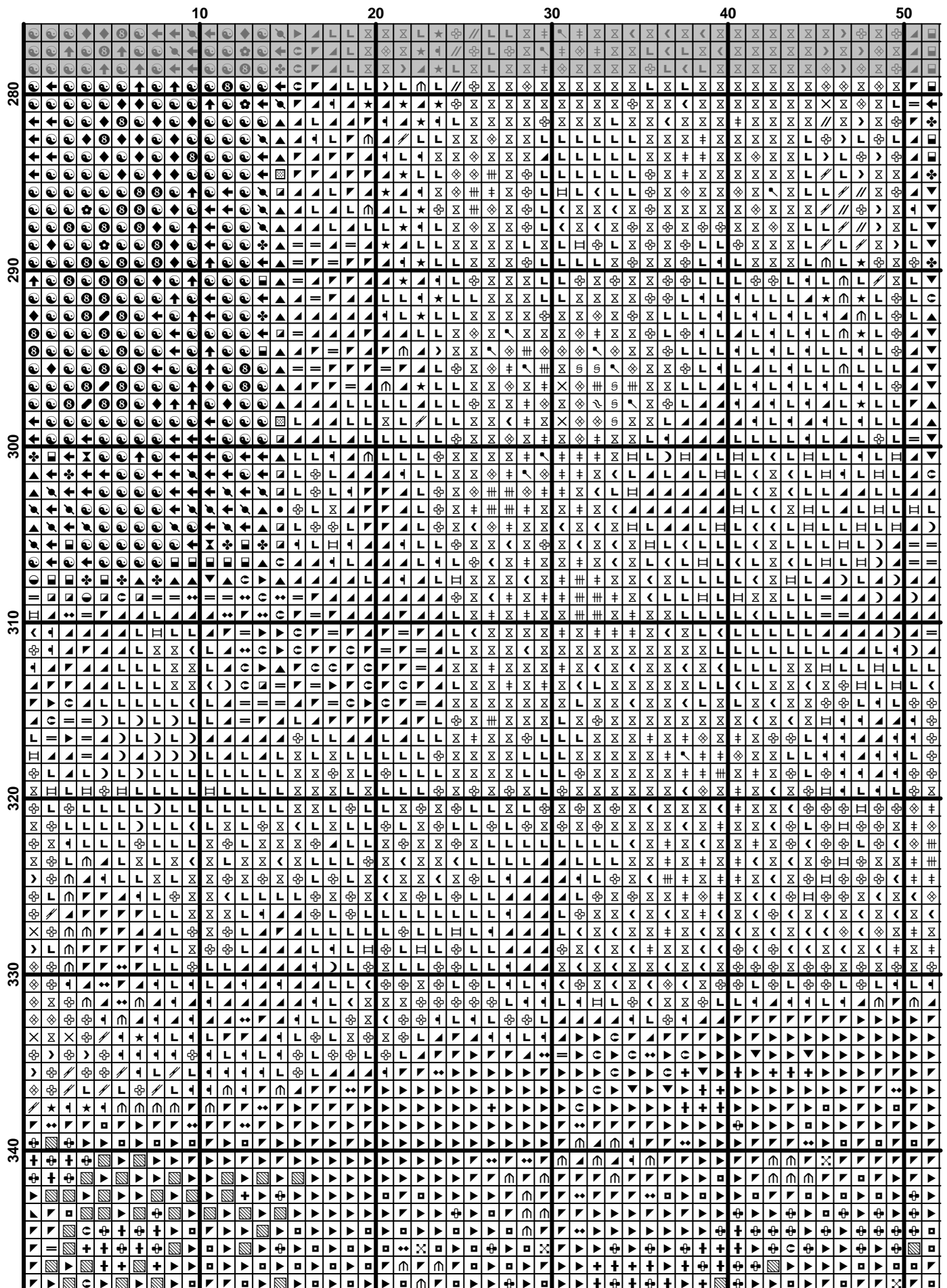


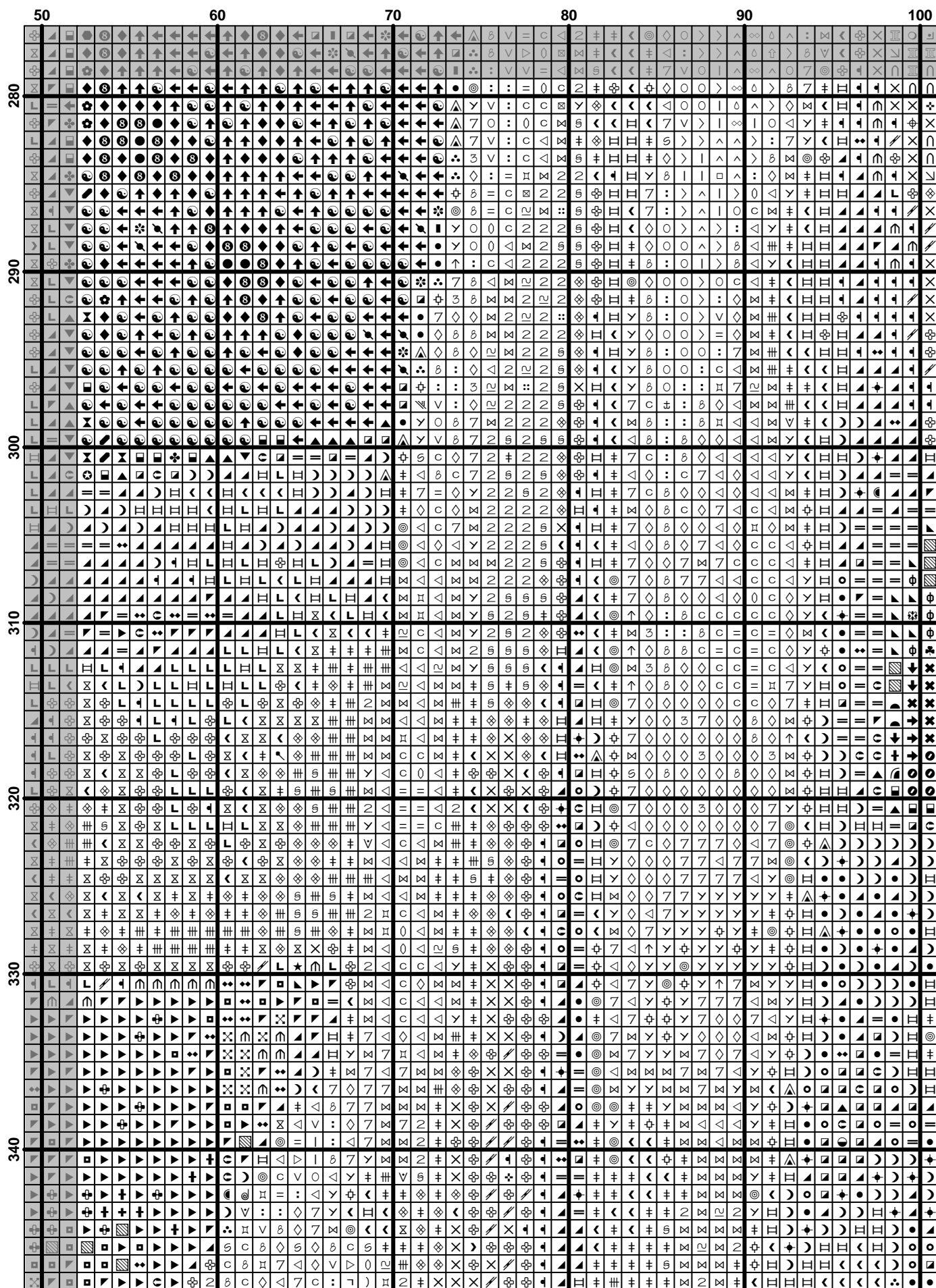












(69)



