

753 The Grass Cutter



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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 Grass Cutter

Stitch Count	
Horizontal:	490
Vertical:	631

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:	89	34.87	115	45	78	30.51	100	39.37	69	27.125	89	35
Including Margins:	105	41	131	52	94	37	116	46	85	34	105	42
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	124	48.81	161	63	103	40.68	134	52.5	51	20.34	67	26.25
Including Margins:	140	55	177	70	119	47	150	59	67	27	83	33
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	49	19.52	64	25.2	47	18.77	61	24.23	46	18.08	59	23.33
Including Margins:	65	26	80	32	63	25	77	31	62	25	75	30
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	44	17.43	57	22.5	41	16.27	53	21	38	15.25	50	19.68
Including Margins:	60	24	73	29	57	23	69	28	54	22	66	26

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
?	210	Lavender-MD
=	211	Lavender-LT
#	223	Shell Pink-LT
·	224	Shell Pink-VY LT
⊖	317	Pewter Gray
⊖	318	Steel Gray-LT
■	347	Salmon-VY DK
⊖	356	Terra Cotta-MD
⊖	372	Mustard-LT
⊖	414	Steel Gray-DK
⊖	415	Pearl Gray
⊖	420	Hazelnut Brown-DK
⊖	437	Tan-LT
⊖	445	Lemon-LT
⊖	451	Shell Gray-DK
⊖	452	Shell Gray-MD
⊖	522	Fern Green
⊖	524	Fern Green-VY LT
⊖	535	Ash Gray-VY LT
⊖	543	Beige Brown-UL VY LT
⊖	554	Violet-LT
⊖	611	Drab Brown
⊖	632	Desert Sand-UL VY DK
⊖	640	Beige Gray-VY DK
⊖	644	Beige Gray-MD
⊖	645	Beaver Gray-VY DK
⊖	647	Beaver Gray-MD
⊖	680	Old Gold-DK
⊖	730	Olive Green-VY DK
⊖	732	Olive Green
⊖	733	Olive Green-MD
⊖	734	Olive Green-LT
⊖	738	Tan-VY LT
⊖	754	Peach-LT
⊖	758	Terra Cotta-VY LT
⊖	760	Salmon
⊖	801	Coffee Brown-DK
⊖	815	Garnet-MD
⊖	819	Baby Pink-LT
⊖	830	Golden Olive-DK

⊖	839	Beige Brown-DK
⊖	900	Burnt Orange-DK
⊖	919	Red Copper
⊖	920	Copper-MD
⊖	921	Copper
⊖	926	Gray Green-MD
⊖	927	Gray Green-LT
⊖	934	Black Avocado Green
⊖	938	Coffee Brown-UL DK
⊖	948	Peach-VY LT
⊖	950	Desert Sand-LT
⊖	975	Golden Brown-DK
⊖	3011	Khaki Green-DK
⊖	3012	Khaki Green-MD
⊖	3013	Khaki Green-LT
⊖	3021	Brown Gray-VY DK
⊖	3032	Mocha Brown-MD
⊖	3041	Antique Violet-MD
⊖	3042	Antique Violet-LT
⊖	3051	Green Gray-DK
⊖	3328	Salmon-DK
⊖	3371	Black Brown
⊖	3713	Salmon-VY LT
⊖	3716	Dusty Rose-VY LT
⊖	3721	Shell Pink-DK
⊖	3722	Shell Pink-MD
⊖	3740	Antique Violet-DK
⊖	3743	Antique Violet-VY LT
⊖	3756	Baby Blue-UL VY LT
⊖	3772	Desert Sand-VY DK
⊖	3778	Terra Cotta-LT
⊖	3781	Mocha Brown-DK
⊖	3782	Mocha Brown-LT
⊖	3787	Brown Gray-DK
⊖	3790	Beige Gray-UL DK
⊖	3799	Pewter Gray-VY DK
⊖	3820	Straw-DK
⊖	3828	Hazelnut Brown
⊖	3829	Old Gold-VY DK
⊖	3860	Cocoa
⊖	3861	Cocoa-LT
⊖	3862	Mocha Beige-DK
⊖	3865	Winter White

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
«	819	Baby Pink-LT	3865	Winter White
⊖	839	Beige Brown-DK	3787	Brown Gray-DK
⊖	522	Fern Green	645	Beaver Gray-VY DK
♥	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
→	3787	Brown Gray-DK	3021	Brown Gray-VY DK
❖	640	Beige Gray-VY DK	645	Beaver Gray-VY DK

:	3865	Winter White	3756	Baby Blue-UL VY LT
+	3778	Terra Cotta-LT	758	Terra Cotta-VY LT
..	3778	Terra Cotta-LT	3328	Salmon-DK
Z	3042	Antique Violet-LT	414	Steel Gray-DK
►	3740	Antique Violet-DK	3041	Antique Violet-MD
卅	502	Blue Green	645	Beaver Gray-VY DK
✚	3790	Beige Gray-UL DK	3787	Brown Gray-DK
~	414	Steel Gray-DK	318	Steel Gray-LT
3	452	Shell Gray-MD	778	Antique Mauve-VY LT
◎	3772	Desert Sand-VY DK	3032	Mocha Brown-MD
◎	3860	Cocoa	3772	Desert Sand-VY DK
☆	407	Desert Sand-DK	3782	Mocha Brown-LT
X	223	Shell Pink-LT	3032	Mocha Brown-MD
5	3778	Terra Cotta-LT	407	Desert Sand-DK
~	3012	Khaki Green-MD	3013	Khaki Green-LT
卅	3011	Khaki Green-DK	3051	Green Gray-DK
ト	647	Beaver Gray-MD	3861	Cocoa-LT
*	975	Golden Brown-DK	3772	Desert Sand-VY DK
▲	645	Beaver Gray-VY DK	413	Pewter Gray-DK
●	938	Coffee Brown-UL DK	3021	Brown Gray-VY DK
+	632	Desert Sand-UL VY DK	420	Hazelnut Brown-DK
\$	3041	Antique Violet-MD	451	Shell Gray-DK
H	3041	Antique Violet-MD	647	Beaver Gray-MD
■	640	Beige Gray-VY DK	3860	Cocoa
I	819	Baby Pink-LT	3756	Baby Blue-UL VY LT
Г	3756	Baby Blue-UL VY LT	3743	Antique Violet-VY LT
u	211	Lavender-LT	3756	Baby Blue-UL VY LT
∞	415	Pearl Gray	211	Lavender-LT
n	3743	Antique Violet-VY LT	211	Lavender-LT
o	3756	Baby Blue-UL VY LT	3713	Salmon-VY LT
□	210	Lavender-MD	211	Lavender-LT
/	3756	Baby Blue-UL VY LT	210	Lavender-MD
6	415	Pearl Gray	554	Violet-LT
	3861	Cocoa-LT	3042	Antique Violet-LT
✚	3861	Cocoa-LT	414	Steel Gray-DK
△	414	Steel Gray-DK	3041	Antique Violet-MD
..	3743	Antique Violet-VY LT	778	Antique Mauve-VY LT
□	318	Steel Gray-LT	210	Lavender-MD
γ	452	Shell Gray-MD	644	Beige Gray-MD
∩	3041	Antique Violet-MD	3042	Antique Violet-LT
c	3713	Salmon-VY LT	3743	Antique Violet-VY LT
5	758	Terra Cotta-VY LT	3782	Mocha Brown-LT
	223	Shell Pink-LT	3861	Cocoa-LT
☐	317	Pewter Gray	3041	Antique Violet-MD
+	644	Beige Gray-MD	224	Shell Pink-VY LT
+	3782	Mocha Brown-LT	3861	Cocoa-LT
☐	3740	Antique Violet-DK	645	Beaver Gray-VY DK
↖	612	Drab Brown-LT	3032	Mocha Brown-MD
☐	632	Desert Sand-UL VY DK	356	Terra Cotta-MD
♣	632	Desert Sand-UL VY DK	221	Shell Pink-VY DK
+	356	Terra Cotta-MD	3772	Desert Sand-VY DK
●	3799	Pewter Gray-VY DK	938	Coffee Brown-UL DK
✚	3740	Antique Violet-DK	3021	Brown Gray-VY DK
☐	3860	Cocoa	632	Desert Sand-UL VY DK
☐	451	Shell Gray-DK	3740	Antique Violet-DK
●	938	Coffee Brown-UL DK	300	Mahogany-VY DK
+	407	Desert Sand-DK	356	Terra Cotta-MD
●	3772	Desert Sand-VY DK	3830	Terra Cotta-MD
☐	938	Coffee Brown-UL DK	839	Beige Brown-DK

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L	451	Shell Gray-DK	3861	Cocoa-LT
o	3772	Desert Sand-VY DK	3721	Shell Pink-DK
X	839	Beige Brown-DK	3721	Shell Pink-DK
o	3860	Cocoa	3721	Shell Pink-DK
↓	522	Fern Green	640	Beige Gray-VY DK
↓	3772	Desert Sand-VY DK	612	Drab Brown-LT
⊞	524	Fern Green-VY LT	3032	Mocha Brown-MD
⌘	3861	Cocoa-LT	3740	Antique Violet-DK
▲	3828	Hazelnut Brown	734	Olive Green-LT
◇	3012	Khaki Green-MD	733	Olive Green-MD
⇐	317	Pewter Gray	3740	Antique Violet-DK
○	3820	Straw-DK	733	Olive Green-MD
√	445	Lemon-LT	734	Olive Green-LT
e	738	Tan-VY LT	369	Pistachio Green-VY LT
⊕	437	Tan-LT	3064	Desert Sand
*	3346	Hunter Green	3787	Brown Gray-DK
□	640	Beige Gray-VY DK	3013	Khaki Green-LT
⌘	921	Copper	3830	Terra Cotta-MD
⌘	211	Lavender-LT	819	Baby Pink-LT
X	3042	Antique Violet-LT	647	Beaver Gray-MD
⌘	3041	Antique Violet-MD	318	Steel Gray-LT
◀	3042	Antique Violet-LT	318	Steel Gray-LT
♂	948	Peach-VY LT	543	Beige Brown-UL VY LT
♂	778	Antique Mauve-VY LT	644	Beige Gray-MD
♂	3740	Antique Violet-DK	3799	Pewter Gray-VY DK
♂	224	Shell Pink-VY LT	3861	Cocoa-LT
♂	3862	Mocha Beige-DK	3012	Khaki Green-MD
♂	3834	Grape-DK	535	Ash Gray-VY LT
♂	645	Beaver Gray-VY DK	3834	Grape-DK
♂	3861	Cocoa-LT	3834	Grape-DK
♂	3011	Khaki Green-DK	732	Olive Green
♂	760	Salmon	3328	Salmon-DK
♂	3051	Green Gray-DK	830	Golden Olive-DK
♂	3042	Antique Violet-LT	223	Shell Pink-LT
♂	347	Salmon-VY DK	920	Copper-MD
♂	3041	Antique Violet-MD	223	Shell Pink-LT
♂	801	Coffee Brown-DK	730	Olive Green-VY DK
♂	3740	Antique Violet-DK	318	Steel Gray-LT
7	3042	Antique Violet-LT	224	Shell Pink-VY LT
◇	224	Shell Pink-VY LT	3041	Antique Violet-MD
✓	758	Terra Cotta-VY LT	3824	Apricot-LT
○	612	Drab Brown-LT	738	Tan-VY LT
⌘	612	Drab Brown-LT	3013	Khaki Green-LT
♂	839	Beige Brown-DK	3862	Mocha Beige-DK
♂	3790	Beige Gray-UL DK	3012	Khaki Green-MD
♂	3772	Desert Sand-VY DK	640	Beige Gray-VY DK
♂	3829	Old Gold-VY DK	3772	Desert Sand-VY DK
♂	3716	Dusty Rose-VY LT	554	Violet-LT
♂	921	Copper	900	Burnt Orange-DK
2	3733	Dusty Rose	224	Shell Pink-VY LT
♂	926	Gray Green-MD	522	Fern Green
4	3013	Khaki Green-LT	3032	Mocha Brown-MD
♂	3778	Terra Cotta-LT	356	Terra Cotta-MD
=	3861	Cocoa-LT	632	Desert Sand-UL VY DK
♂	356	Terra Cotta-MD	3721	Shell Pink-DK
♂	3740	Antique Violet-DK	3834	Grape-DK

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	
210	Lavender-MD	310	122	295	116	265	104
211	Lavender-LT	1181	464	1125	442	1013	398
221	Shell Pink-VY DK	48	18	46	18	41	16
223	Shell Pink-LT	448	176	426	167	384	151
224	Shell Pink-VY LT	343	135	326	128	294	115
300	Mahogany-VY DK	187	73	178	70	160	62
317	Pewter Gray	553	217	527	207	474	186
318	Steel Gray-LT	566	222	539	212	485	190
347	Salmon-VY DK	220	86	209	82	188	74
356	Terra Cotta-MD	436	171	415	163	373	146
369	Pistachio Green-VY LT	91	35	86	33	78	30
372	Mustard-LT	228	89	217	85	195	76
407	Desert Sand-DK	225	88	214	84	193	75
413	Pewter Gray-DK	39	15	37	14	33	12
414	Steel Gray-DK	484	190	461	181	415	163
415	Pearl Gray	355	139	338	133	305	120
420	Hazelnut Brown-DK	250	98	238	93	214	84
437	Tan-LT	97	38	92	36	83	32
445	Lemon-LT	67	26	64	25	57	22
451	Shell Gray-DK	1896	746	1805	710	1625	639
452	Shell Gray-MD	831	327	791	311	712	280
502	Blue Green	29	11	27	10	25	9
522	Fern Green	927	364	883	347	795	312
524	Fern Green-VY LT	396	155	377	148	339	133
535	Ash Gray-VY LT	291	114	277	109	249	98
543	Beige Brown-UL VY LT	301	118	286	112	258	101
554	Violet-LT	203	79	193	75	174	68
611	Drab Brown	373	146	355	139	320	125
612	Drab Brown-LT	800	314	762	300	685	269
632	Desert Sand-UL VY DK	696	274	663	261	597	235
640	Beige Gray-VY DK	3318	1306	3160	1244	2844	1119
644	Beige Gray-MD	554	218	528	207	475	187
645	Beaver Gray-VY DK	1556	612	1482	583	1333	524
647	Beaver Gray-MD	660	259	629	247	566	222
680	Old Gold-DK	45	17	43	16	38	14
730	Olive Green-VY DK	507	199	483	190	434	170
732	Olive Green	395	155	376	148	339	133
733	Olive Green-MD	264	103	251	98	226	88
734	Olive Green-LT	281	110	267	105	241	94
738	Tan-VY LT	540	212	514	202	463	182
754	Peach-LT	107	42	102	40	92	36
758	Terra Cotta-VY LT	355	139	338	133	304	119
760	Salmon	136	53	130	51	117	46
778	Antique Mauve-VY LT	458	180	436	171	392	154
801	Coffee Brown-DK	858	337	818	322	736	289
815	Garnet-MD	124	48	118	46	106	41
819	Baby Pink-LT	891	350	849	334	764	300
830	Golden Olive-DK	663	261	631	248	568	223
839	Beige Brown-DK	2545	1001	2423	953	2181	858
900	Burnt Orange-DK	479	188	456	179	410	161
919	Red Copper	173	68	165	64	148	58
920	Copper-MD	216	85	206	81	185	72
921	Copper	381	150	363	142	326	128
926	Gray Green-MD	47	18	45	17	40	15

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927	Gray Green-LT	15	5	14	5	13	5
934	Black Avocado Green	246	96	235	92	211	83
938	Coffee Brown-UL DK	2802	1103	2668	1050	2401	945
948	Peach-VY LT	151	59	144	56	129	50
950	Desert Sand-LT	220	86	209	82	188	74
975	Golden Brown-DK	242	95	230	90	207	81
3011	Khaki Green-DK	1990	783	1895	746	1706	671
3012	Khaki Green-MD	3196	1258	3044	1198	2740	1078
3013	Khaki Green-LT	1756	691	1672	658	1505	592
3021	Brown Gray-VY DK	2405	946	2291	901	2062	811
3032	Mocha Brown-MD	2007	790	1911	752	1720	677
3041	Antique Violet-MD	2143	843	2041	803	1837	723
3042	Antique Violet-LT	1546	608	1472	579	1325	521
3051	Green Gray-DK	1513	595	1441	567	1297	510
3064	Desert Sand	33	12	31	12	28	11
3328	Salmon-DK	408	160	388	152	349	137
3346	Hunter Green	303	119	288	113	259	101
3371	Black Brown	1409	554	1342	528	1207	475
3713	Salmon-VY LT	331	130	316	124	284	111
3716	Dusty Rose-VY LT	61	24	58	22	52	20
3721	Shell Pink-DK	242	95	231	90	208	81
3722	Shell Pink-MD	46	18	44	17	40	15
3733	Dusty Rose	35	13	33	12	30	11
3740	Antique Violet-DK	2152	847	2050	807	1845	726
3743	Antique Violet-VY LT	815	320	776	305	698	274
3756	Baby Blue-UL VY LT	5782	2276	5507	2168	4956	1951
3772	Desert Sand-VY DK	1810	712	1723	678	1551	610
3778	Terra Cotta-LT	337	132	321	126	289	113
3781	Mocha Brown-DK	808	318	770	303	693	272
3782	Mocha Brown-LT	874	344	833	327	749	294
3787	Brown Gray-DK	2713	1068	2584	1017	2325	915
3790	Beige Gray-UL DK	2243	883	2136	840	1923	757
3799	Pewter Gray-VY DK	623	245	594	233	534	210
3820	Straw-DK	58	22	55	21	49	19
3824	Apricot-LT	61	24	58	22	52	20
3828	Hazelnut Brown	340	133	324	127	291	114
3829	Old Gold-VY DK	161	63	153	60	138	54
3830	Terra Cotta-MD	151	59	144	56	130	51
3834	Grape-DK	418	164	398	156	358	140
3860	Cocoa	1099	432	1047	412	942	370
3861	Cocoa-LT	2214	871	2109	830	1898	747
3862	Mocha Beige-DK	1725	679	1642	646	1478	581
3865	Winter White	11307	4451	10768	4239	9691	3815

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
210	Lavender-MD	477	187	398	156	199	78
211	Lavender-LT	1823	716	1520	597	760	299
221	Shell Pink-VY DK	74	29	62	24	31	12
223	Shell Pink-LT	691	272	576	227	288	113
224	Shell Pink-VY LT	529	207	441	173	221	86
300	Mahogany-VY DK	288	112	240	93	120	47
317	Pewter Gray	853	335	711	279	356	140
318	Steel Gray-LT	873	342	728	285	364	143
347	Salmon-VY DK	338	133	282	111	141	56
356	Terra Cotta-MD	671	263	560	219	280	110

369	Pistachio Green-VY LT	140	54	117	45	59	23
372	Mustard-LT	351	137	293	114	146	57
407	Desert Sand-DK	347	135	290	113	145	56
413	Pewter Gray-DK	59	22	50	18	25	9
414	Steel Gray-DK	747	293	623	245	311	122
415	Pearl Gray	549	216	458	180	229	90
420	Hazelnut Brown-DK	385	151	321	126	161	63
437	Tan-LT	149	58	125	48	62	24
445	Lemon-LT	103	40	86	33	43	17
451	Shell Gray-DK	2925	1150	2438	959	1219	479
452	Shell Gray-MD	1282	504	1068	420	534	210
502	Blue Green	45	16	38	14	19	7
522	Fern Green	1431	562	1193	468	596	234
524	Fern Green-VY LT	610	239	509	200	254	100
535	Ash Gray-VY LT	448	176	374	147	187	74
543	Beige Brown-UL VY LT	464	182	387	152	194	76
554	Violet-LT	313	122	261	102	131	51
611	Drab Brown	576	225	480	188	240	94
612	Drab Brown-LT	1233	484	1028	404	514	202
632	Desert Sand-UL VY DK	1075	423	896	353	448	176
640	Beige Gray-VY DK	5119	2014	4266	1679	2133	839
644	Beige Gray-MD	855	337	713	281	356	140
645	Beaver Gray-VY DK	2399	943	2000	786	1000	393
647	Beaver Gray-MD	1019	400	849	333	425	167
680	Old Gold-DK	68	25	57	21	29	11
730	Olive Green-VY DK	781	306	651	255	326	128
732	Olive Green	610	239	509	200	254	100
733	Olive Green-MD	407	158	339	132	170	66
734	Olive Green-LT	434	169	362	141	181	71
738	Tan-VY LT	833	328	695	273	347	137
754	Peach-LT	166	65	138	54	69	27
758	Terra Cotta-VY LT	547	214	456	179	228	89
760	Salmon	211	83	176	69	88	35
778	Antique Mauve-VY LT	706	277	588	231	294	116
801	Coffee Brown-DK	1325	520	1104	434	552	217
815	Garnet-MD	191	74	159	62	80	31
819	Baby Pink-LT	1375	540	1146	450	573	225
830	Golden Olive-DK	1022	401	852	335	426	167
839	Beige Brown-DK	3926	1544	3272	1287	1636	644
900	Burnt Orange-DK	738	290	615	242	308	121
919	Red Copper	266	104	222	87	111	44
920	Copper-MD	333	130	278	108	139	54
921	Copper	587	230	489	192	245	96
926	Gray Green-MD	72	27	60	23	30	11
927	Gray Green-LT	23	9	20	8	10	4
934	Black Avocado Green	380	149	317	125	158	62
938	Coffee Brown-UL DK	4322	1701	3602	1418	1801	709
948	Peach-VY LT	232	90	194	75	97	38
950	Desert Sand-LT	338	133	282	111	141	56
975	Golden Brown-DK	373	146	311	122	155	61
3011	Khaki Green-DK	3071	1208	2559	1007	1280	503
3012	Khaki Green-MD	4932	1940	4110	1617	2055	809
3013	Khaki Green-LT	2709	1066	2258	888	1129	444
3021	Brown Gray-VY DK	3712	1460	3093	1217	1547	608
3032	Mocha Brown-MD	3096	1219	2580	1016	1290	508
3041	Antique Violet-MD	3307	1301	2756	1085	1378	542
3042	Antique Violet-LT	2385	938	1988	782	994	391
3051	Green Gray-DK	2335	918	1946	765	973	383
3064	Desert Sand	50	20	42	17	21	8

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3328	Salmon-DK	628	247	524	206	262	103
3346	Hunter Green	466	182	389	152	194	76
3371	Black Brown	2173	855	1811	713	905	356
3713	Salmon-VY LT	511	200	426	167	213	83
3716	Dusty Rose-VY LT	94	36	78	30	39	15
3721	Shell Pink-DK	374	146	312	122	156	61
3722	Shell Pink-MD	72	27	60	23	30	11
3733	Dusty Rose	54	20	45	17	23	8
3740	Antique Violet-DK	3321	1307	2768	1089	1384	545
3743	Antique Violet-VY LT	1256	493	1047	411	524	206
3756	Baby Blue-UL VY LT	8921	3512	7434	2927	3717	1463
3772	Desert Sand-VY DK	2792	1098	2327	915	1163	458
3778	Terra Cotta-LT	520	203	434	170	217	85
3781	Mocha Brown-DK	1247	490	1040	408	520	204
3782	Mocha Brown-LT	1348	529	1124	441	562	221
3787	Brown Gray-DK	4185	1647	3488	1373	1744	686
3790	Beige Gray-UL DK	3461	1363	2885	1136	1442	568
3799	Pewter Gray-VY DK	961	378	801	315	401	158
3820	Straw-DK	88	34	74	29	37	14
3824	Apricot-LT	94	36	78	30	39	15
3828	Hazelnut Brown	524	205	437	171	218	86
3829	Old Gold-VY DK	248	97	207	81	104	41
3830	Terra Cotta-MD	234	92	195	77	98	38
3834	Grape-DK	644	252	537	210	269	105
3860	Cocoa	1696	666	1413	555	707	278
3861	Cocoa-LT	3416	1345	2847	1121	1424	560
3862	Mocha Beige-DK	2660	1046	2217	872	1109	436
3865	Winter White	17444	6867	14537	5723	7268	2861

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
210	Lavender-MD	191	75	183	72	177	69
211	Lavender-LT	729	287	701	276	675	265
221	Shell Pink-VY DK	30	12	28	11	27	11
223	Shell Pink-LT	276	109	266	105	256	101
224	Shell Pink-VY LT	212	83	204	80	196	77
300	Mahogany-VY DK	115	45	111	43	107	41
317	Pewter Gray	341	134	328	129	316	124
318	Steel Gray-LT	349	137	336	132	323	127
347	Salmon-VY DK	135	53	130	51	125	49
356	Terra Cotta-MD	269	105	258	101	249	97
369	Pistachio Green-VY LT	56	22	54	21	52	20
372	Mustard-LT	140	55	135	53	130	51
407	Desert Sand-DK	139	54	134	52	129	50
413	Pewter Gray-DK	24	9	23	8	22	8
414	Steel Gray-DK	299	117	287	113	277	109
415	Pearl Gray	220	86	211	83	203	80
420	Hazelnut Brown-DK	154	60	148	58	143	56
437	Tan-LT	60	23	57	22	55	21
445	Lemon-LT	41	16	39	15	38	15
451	Shell Gray-DK	1170	460	1125	442	1083	426
452	Shell Gray-MD	513	202	493	194	475	187
502	Blue Green	18	6	17	6	17	6
522	Fern Green	572	225	550	216	530	208
524	Fern Green-VY LT	244	96	235	92	226	89
535	Ash Gray-VY LT	179	71	172	68	166	65

543	Beige Brown-UL VY LT	186	73	179	70	172	67
554	Violet-LT	125	49	120	47	116	45
611	Drab Brown	230	90	222	87	213	83
612	Drab Brown-LT	493	194	474	186	457	179
632	Desert Sand-UL VY DK	430	169	413	163	398	157
640	Beige Gray-VY DK	2048	806	1969	775	1896	746
644	Beige Gray-MD	342	135	329	129	317	125
645	Beaver Gray-VY DK	960	377	923	363	889	349
647	Beaver Gray-MD	408	160	392	154	377	148
680	Old Gold-DK	27	10	26	10	25	9
730	Olive Green-VY DK	312	122	300	118	289	113
732	Olive Green	244	96	235	92	226	89
733	Olive Green-MD	163	63	156	61	151	59
734	Olive Green-LT	174	68	167	65	161	63
738	Tan-VY LT	333	131	321	126	309	121
754	Peach-LT	66	26	64	25	61	24
758	Terra Cotta-VY LT	219	86	210	82	203	79
760	Salmon	84	33	81	32	78	31
778	Antique Mauve-VY LT	282	111	271	107	261	103
801	Coffee Brown-DK	530	208	510	200	491	193
815	Garnet-MD	76	30	73	28	71	27
819	Baby Pink-LT	550	216	529	208	509	200
830	Golden Olive-DK	409	161	393	154	379	149
839	Beige Brown-DK	1570	618	1510	594	1454	572
900	Burnt Orange-DK	295	116	284	111	273	107
919	Red Copper	107	42	102	40	99	39
920	Copper-MD	133	52	128	50	123	48
921	Copper	235	92	226	89	217	85
926	Gray Green-MD	29	11	28	10	27	10
927	Gray Green-LT	9	4	9	3	9	3
934	Black Avocado Green	152	60	146	57	141	55
938	Coffee Brown-UL DK	1729	680	1662	654	1601	630
948	Peach-VY LT	93	36	89	35	86	33
950	Desert Sand-LT	135	53	130	51	125	49
975	Golden Brown-DK	149	58	143	56	138	54
3011	Khaki Green-DK	1228	483	1181	465	1137	447
3012	Khaki Green-MD	1973	776	1897	746	1827	719
3013	Khaki Green-LT	1084	426	1042	410	1003	395
3021	Brown Gray-VY DK	1485	584	1428	561	1375	541
3032	Mocha Brown-MD	1238	487	1191	469	1147	451
3041	Antique Violet-MD	1323	521	1272	501	1225	482
3042	Antique Violet-LT	954	375	917	361	883	347
3051	Green Gray-DK	934	367	898	353	865	340
3064	Desert Sand	20	8	19	8	19	7
3328	Salmon-DK	251	99	242	95	233	91
3346	Hunter Green	186	73	179	70	173	67
3371	Black Brown	869	342	836	329	805	317
3713	Salmon-VY LT	204	80	197	77	189	74
3716	Dusty Rose-VY LT	37	14	36	14	35	13
3721	Shell Pink-DK	150	58	144	56	139	54
3722	Shell Pink-MD	29	11	28	10	27	10
3733	Dusty Rose	22	8	21	8	20	7
3740	Antique Violet-DK	1328	523	1277	503	1230	484
3743	Antique Violet-VY LT	503	197	483	190	465	183
3756	Baby Blue-UL VY LT	3568	1405	3431	1351	3304	1301
3772	Desert Sand-VY DK	1117	439	1074	422	1034	407
3778	Terra Cotta-LT	208	81	200	78	193	75
3781	Mocha Brown-DK	499	196	480	188	462	181
3782	Mocha Brown-LT	539	212	519	204	499	196

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3787	Brown Gray-DK	1674	659	1610	633	1550	610
3790	Beige Gray-UL DK	1385	545	1331	524	1282	505
3799	Pewter Gray-VY DK	384	151	370	145	356	140
3820	Straw-DK	35	14	34	13	33	13
3824	Apricot-LT	37	14	36	14	35	13
3828	Hazelnut Brown	210	82	201	79	194	76
3829	Old Gold-VY DK	99	39	96	37	92	36
3830	Terra Cotta-MD	94	37	90	35	87	34
3834	Grape-DK	258	101	248	97	239	93
3860	Cocoa	678	266	652	256	628	247
3861	Cocoa-LT	1367	538	1314	517	1265	498
3862	Mocha Beige-DK	1064	418	1023	402	985	387
3865	Winter White	6978	2747	6709	2641	6461	2543

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
210	Lavender-MD	170	67	159	62	149	59
211	Lavender-LT	651	256	608	239	570	224
221	Shell Pink-VY DK	26	10	25	10	23	9
223	Shell Pink-LT	247	97	230	91	216	85
224	Shell Pink-VY LT	189	74	176	69	165	65
300	Mahogany-VY DK	103	40	96	37	90	35
317	Pewter Gray	305	120	284	112	267	105
318	Steel Gray-LT	312	122	291	114	273	107
347	Salmon-VY DK	121	48	113	44	106	42
356	Terra Cotta-MD	240	94	224	88	210	82
369	Pistachio Green-VY LT	50	19	47	18	44	17
372	Mustard-LT	125	49	117	46	110	43
407	Desert Sand-DK	124	48	116	45	109	42
413	Pewter Gray-DK	21	8	20	7	19	7
414	Steel Gray-DK	267	105	249	98	233	92
415	Pearl Gray	196	77	183	72	172	68
420	Hazelnut Brown-DK	138	54	128	50	120	47
437	Tan-LT	53	21	50	19	47	18
445	Lemon-LT	37	14	34	13	32	12
451	Shell Gray-DK	1045	411	975	383	914	359
452	Shell Gray-MD	458	180	427	168	401	158
502	Blue Green	16	6	15	5	14	5
522	Fern Green	511	201	477	187	447	176
524	Fern Green-VY LT	218	86	203	80	191	75
535	Ash Gray-VY LT	160	63	149	59	140	55
543	Beige Brown-UL VY LT	166	65	155	61	145	57
554	Violet-LT	112	44	104	41	98	38
611	Drab Brown	206	80	192	75	180	70
612	Drab Brown-LT	440	173	411	161	385	151
632	Desert Sand-UL VY DK	384	151	358	141	336	132
640	Beige Gray-VY DK	1828	719	1706	671	1600	629
644	Beige Gray-MD	305	120	285	112	267	105
645	Beaver Gray-VY DK	857	337	800	314	750	295
647	Beaver Gray-MD	364	143	340	133	318	125
680	Old Gold-DK	24	9	23	8	21	8
730	Olive Green-VY DK	279	109	260	102	244	96
732	Olive Green	218	86	203	80	191	75
733	Olive Green-MD	145	57	136	53	127	50
734	Olive Green-LT	155	60	145	56	136	53
738	Tan-VY LT	298	117	278	109	260	102

754	Peach-LT	59	23	55	22	52	20
758	Terra Cotta-VY LT	195	77	182	71	171	67
760	Salmon	75	30	70	28	66	26
778	Antique Mauve-VY LT	252	99	235	92	221	87
801	Coffee Brown-DK	473	186	442	173	414	163
815	Garnet-MD	68	26	64	25	60	23
819	Baby Pink-LT	491	193	458	180	430	169
830	Golden Olive-DK	365	143	341	134	320	125
839	Beige Brown-DK	1402	552	1309	515	1227	483
900	Burnt Orange-DK	264	104	246	97	231	91
919	Red Copper	95	37	89	35	83	33
920	Copper-MD	119	46	111	43	104	41
921	Copper	210	82	196	77	183	72
926	Gray Green-MD	26	10	24	9	23	8
927	Gray Green-LT	8	3	8	3	7	3
934	Black Avocado Green	136	53	127	50	119	47
938	Coffee Brown-UL DK	1544	608	1441	567	1351	532
948	Peach-VY LT	83	32	77	30	73	28
950	Desert Sand-LT	121	48	113	44	106	42
975	Golden Brown-DK	133	52	124	49	116	46
3011	Khaki Green-DK	1097	431	1024	403	960	377
3012	Khaki Green-MD	1761	693	1644	647	1541	606
3013	Khaki Green-LT	968	381	903	355	847	333
3021	Brown Gray-VY DK	1326	521	1237	487	1160	456
3032	Mocha Brown-MD	1106	435	1032	406	968	381
3041	Antique Violet-MD	1181	465	1102	434	1033	407
3042	Antique Violet-LT	852	335	795	313	745	293
3051	Green Gray-DK	834	328	778	306	730	287
3064	Desert Sand	18	7	17	7	16	6
3328	Salmon-DK	224	88	209	82	196	77
3346	Hunter Green	167	65	155	61	146	57
3371	Black Brown	776	305	724	285	679	267
3713	Salmon-VY LT	183	71	170	67	160	62
3716	Dusty Rose-VY LT	33	13	31	12	29	11
3721	Shell Pink-DK	134	52	125	49	117	46
3722	Shell Pink-MD	26	10	24	9	23	8
3733	Dusty Rose	19	7	18	7	17	6
3740	Antique Violet-DK	1186	467	1107	436	1038	408
3743	Antique Violet-VY LT	449	176	419	164	393	154
3756	Baby Blue-UL VY LT	3186	1254	2974	1171	2788	1097
3772	Desert Sand-VY DK	997	392	931	366	872	343
3778	Terra Cotta-LT	186	73	173	68	163	64
3781	Mocha Brown-DK	446	175	416	163	390	153
3782	Mocha Brown-LT	482	189	449	176	421	165
3787	Brown Gray-DK	1495	588	1395	549	1308	515
3790	Beige Gray-UL DK	1236	487	1154	454	1082	426
3799	Pewter Gray-VY DK	343	135	320	126	300	118
3820	Straw-DK	32	12	29	11	28	11
3824	Apricot-LT	33	13	31	12	29	11
3828	Hazelnut Brown	187	73	175	68	164	64
3829	Old Gold-VY DK	89	35	83	32	78	30
3830	Terra Cotta-MD	84	33	78	31	73	29
3834	Grape-DK	230	90	215	84	201	79
3860	Cocoa	606	238	565	222	530	208
3861	Cocoa-LT	1220	480	1139	448	1068	420
3862	Mocha Beige-DK	950	374	887	349	831	327
3865	Winter White	6230	2453	5815	2289	5451	2146

$$(11) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

$$(12) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (13)$$

(14)

[illegible]

$$(15) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

$$(16) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

$$(17) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (18)$$

[illegible]

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

(20)

$$(21) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (22)$$

$$(22) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (23)$$

$$(23) \quad \mathcal{H}^{\text{reg}}_{\text{reg}} = \mathcal{H}^{\text{reg}}_{\text{reg}} \quad (24)$$

$$(24) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

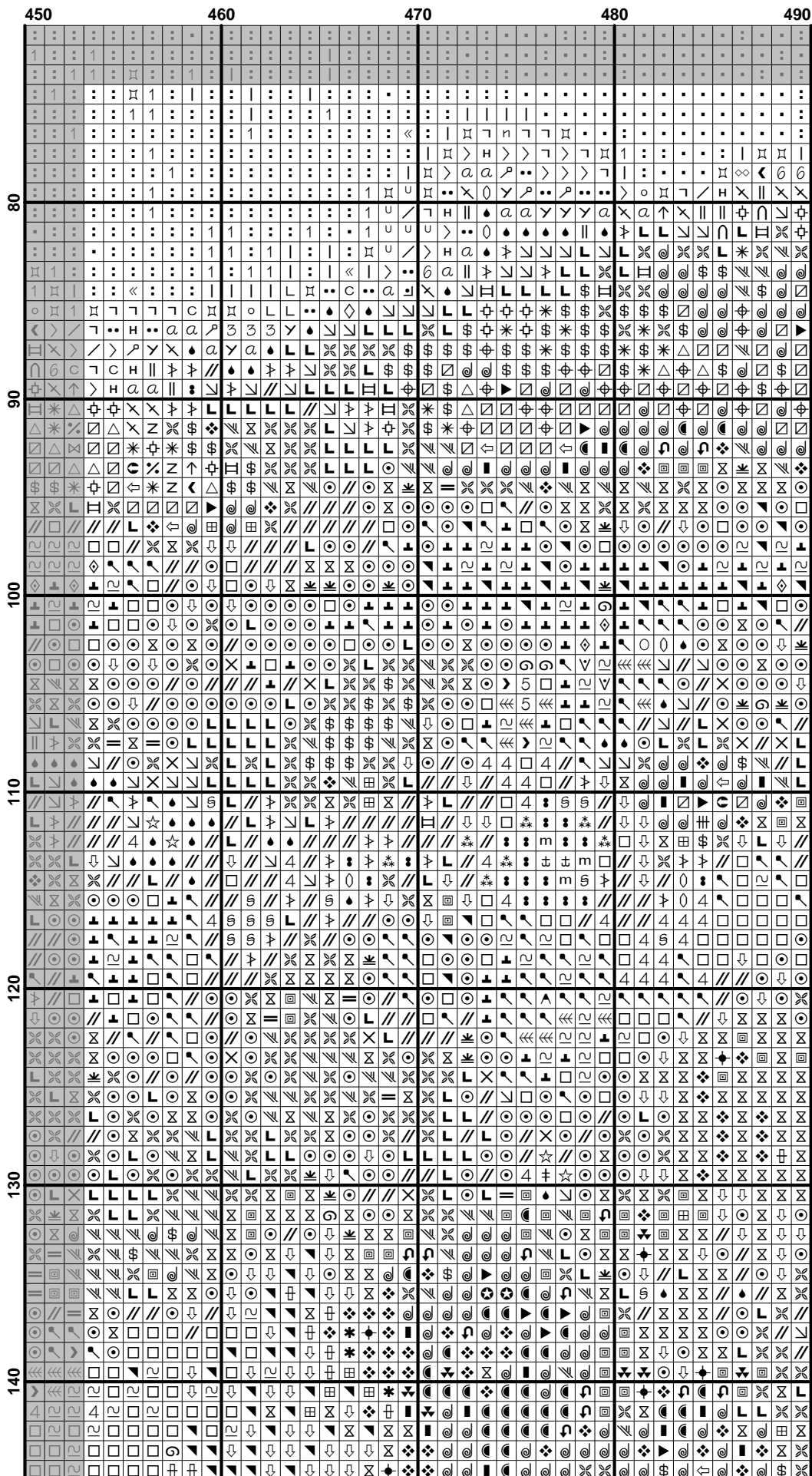
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$$(26) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (27)$$

[illegible]

[illegible]

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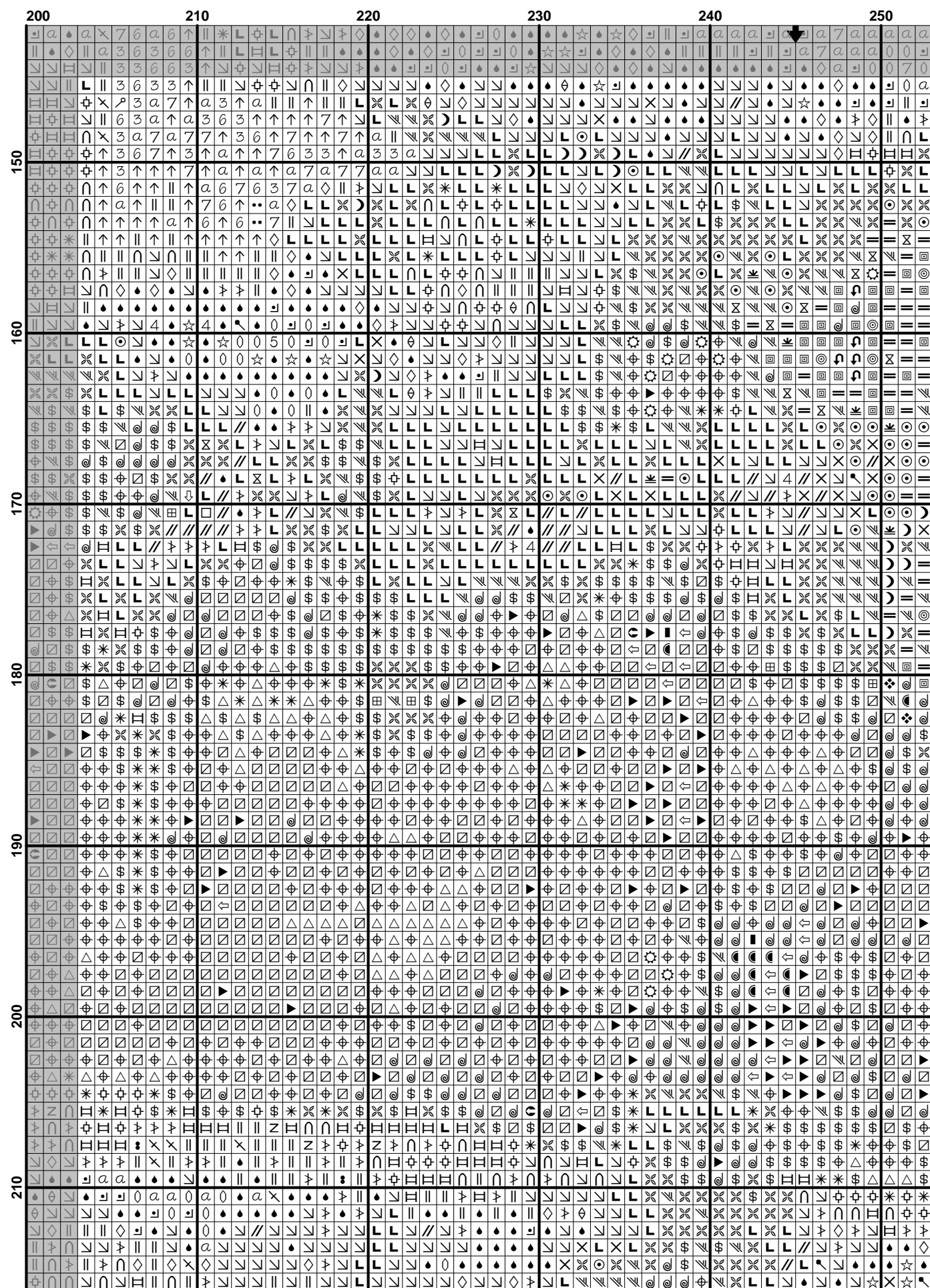


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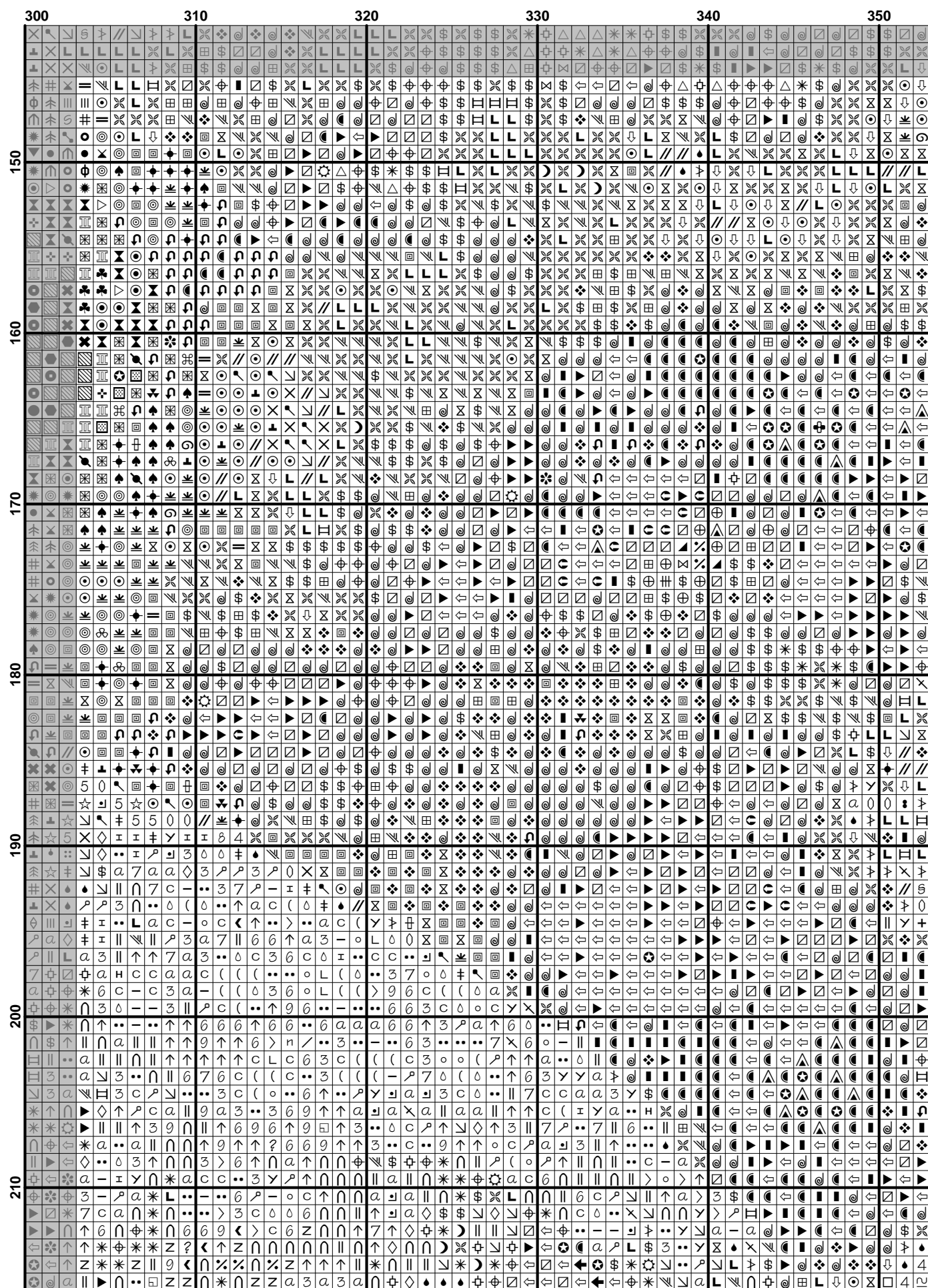
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150	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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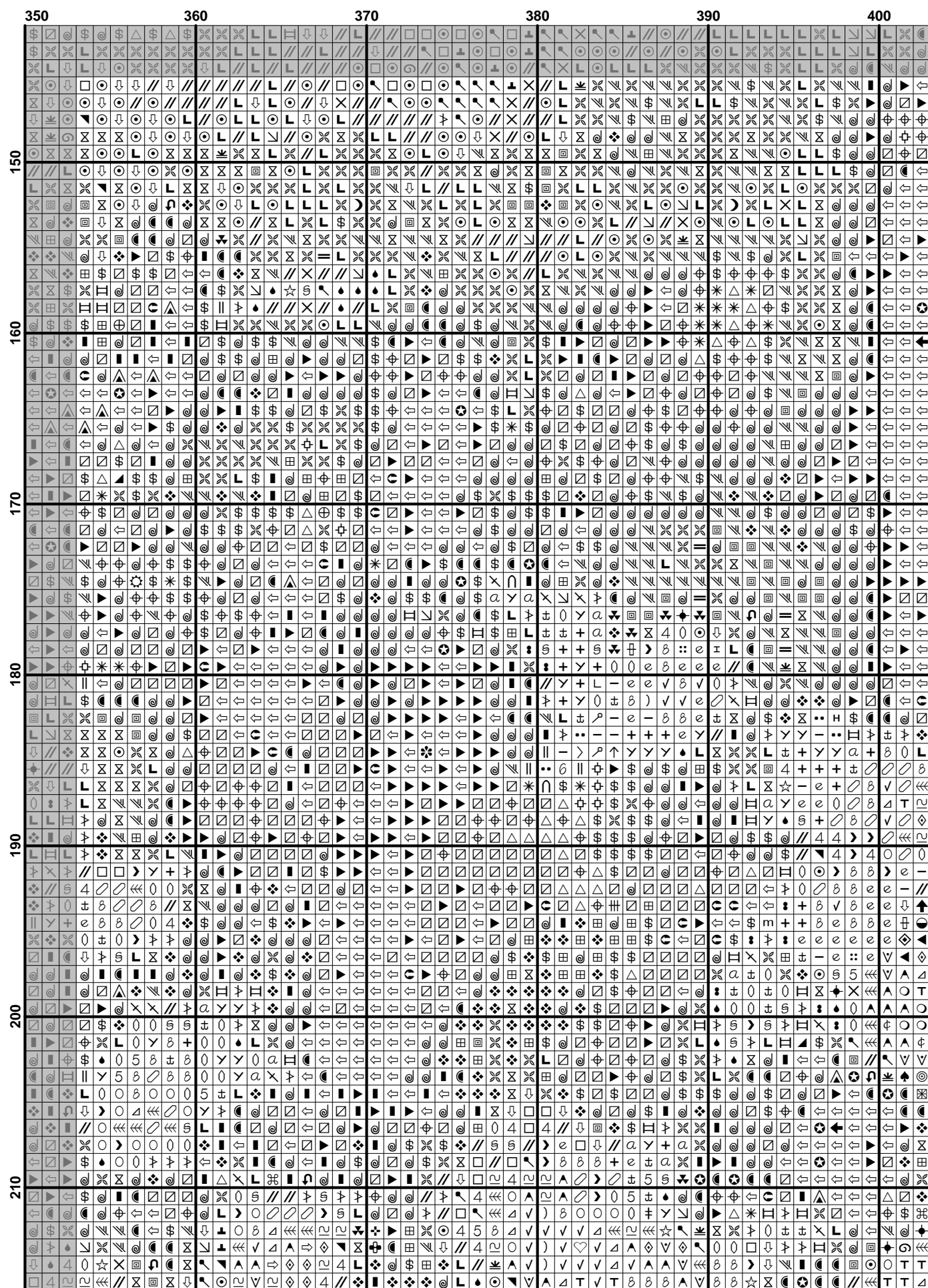
$$(33) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (34)$$

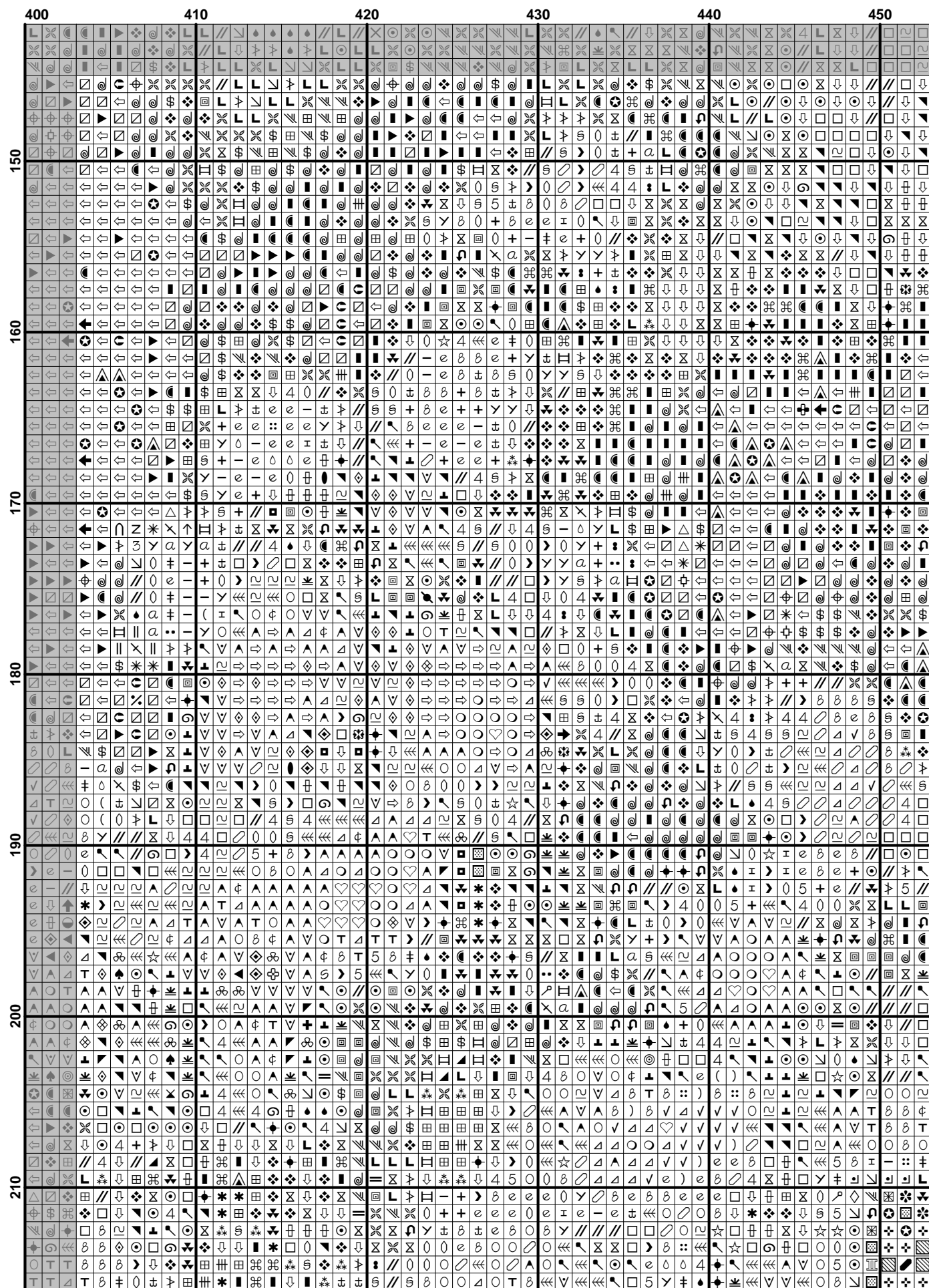
$$(34) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

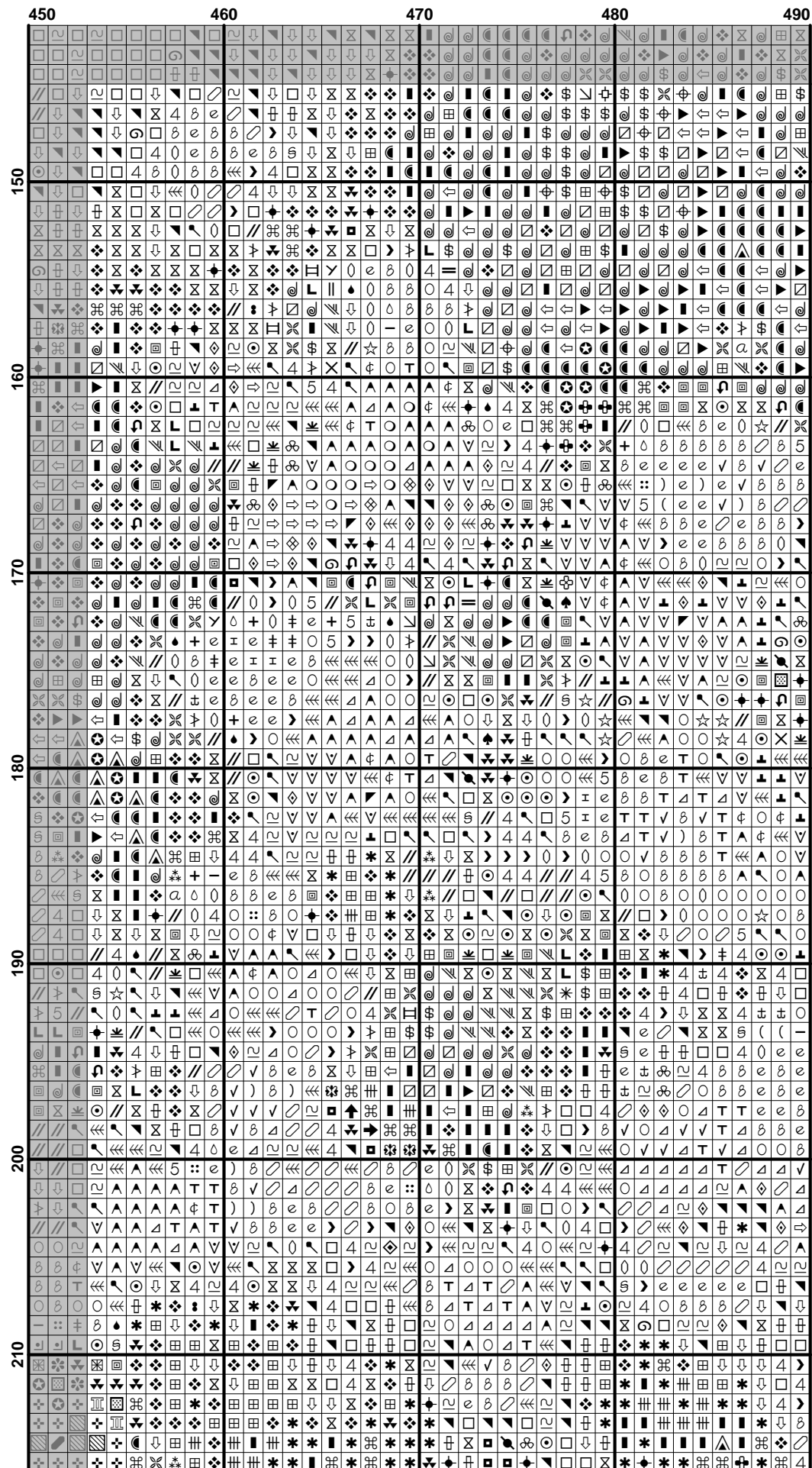


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200
210









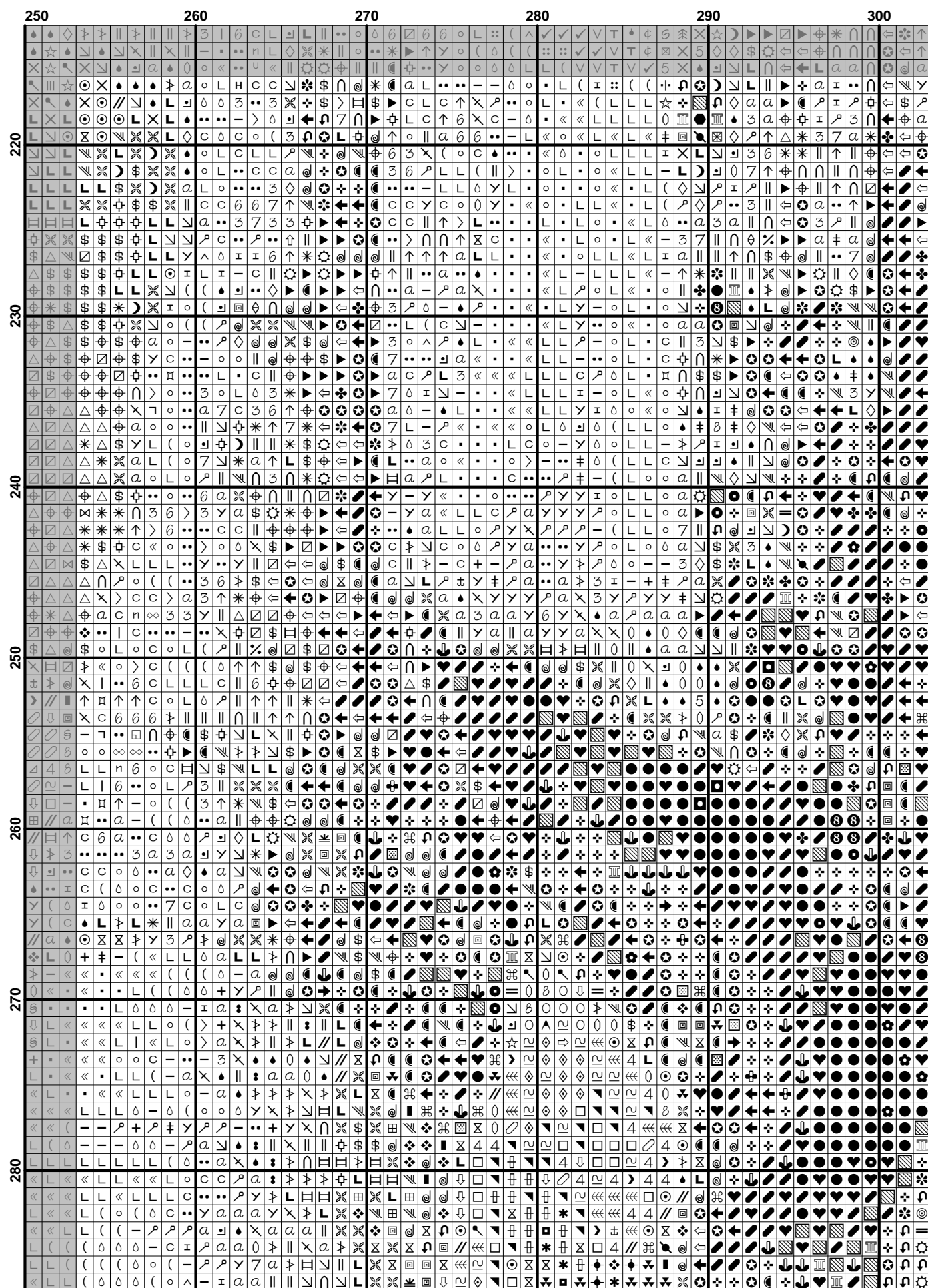
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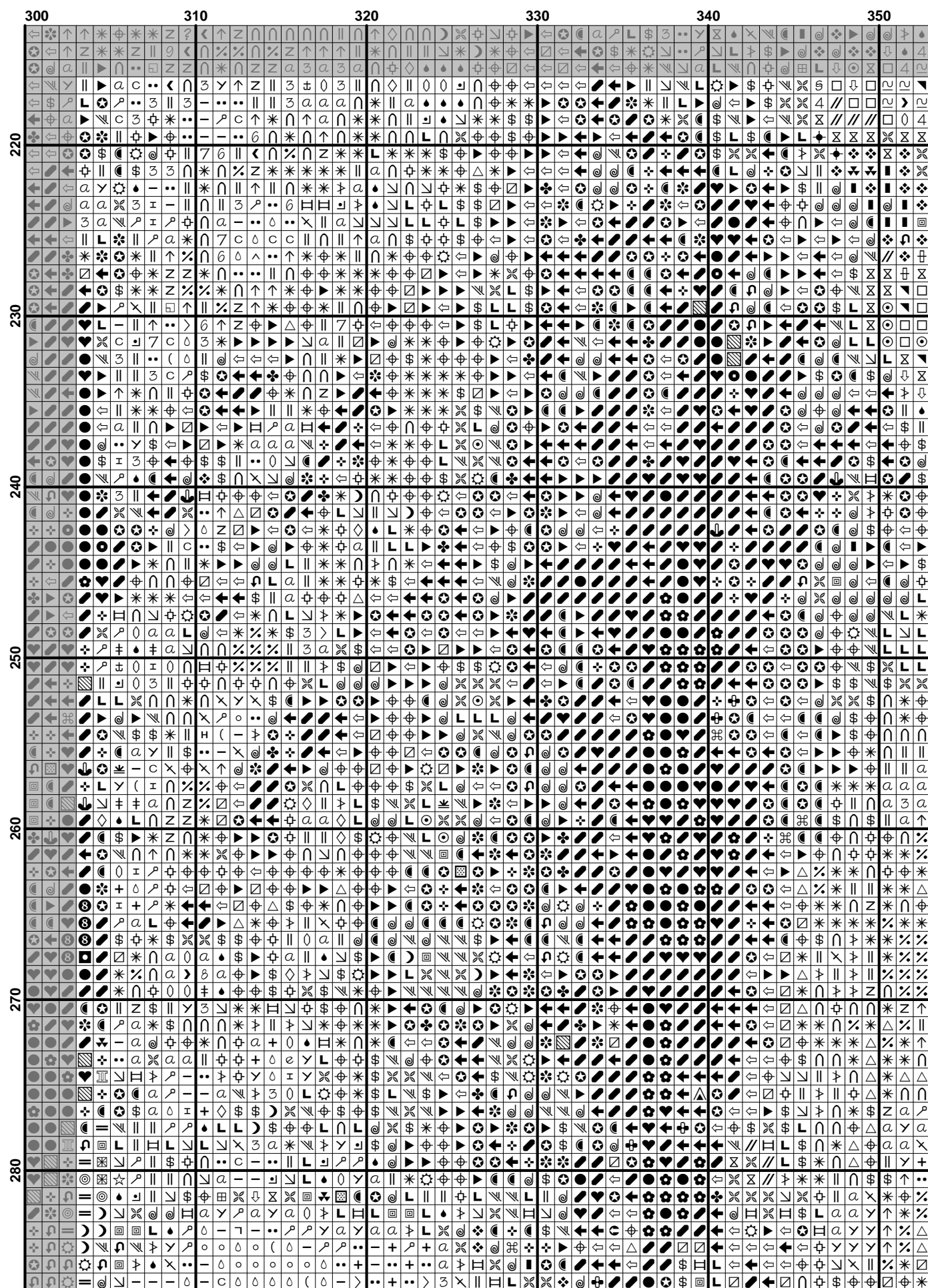
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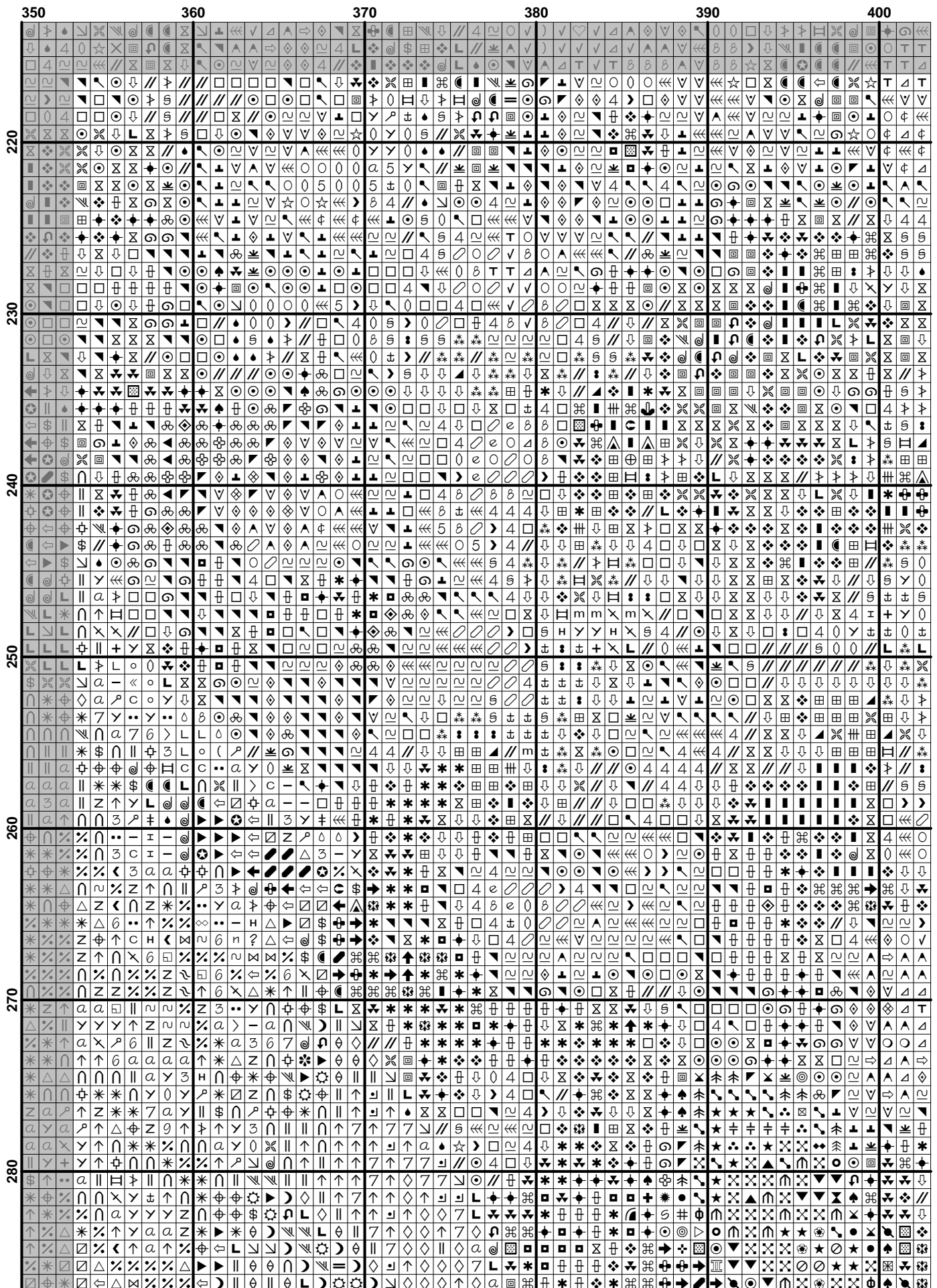
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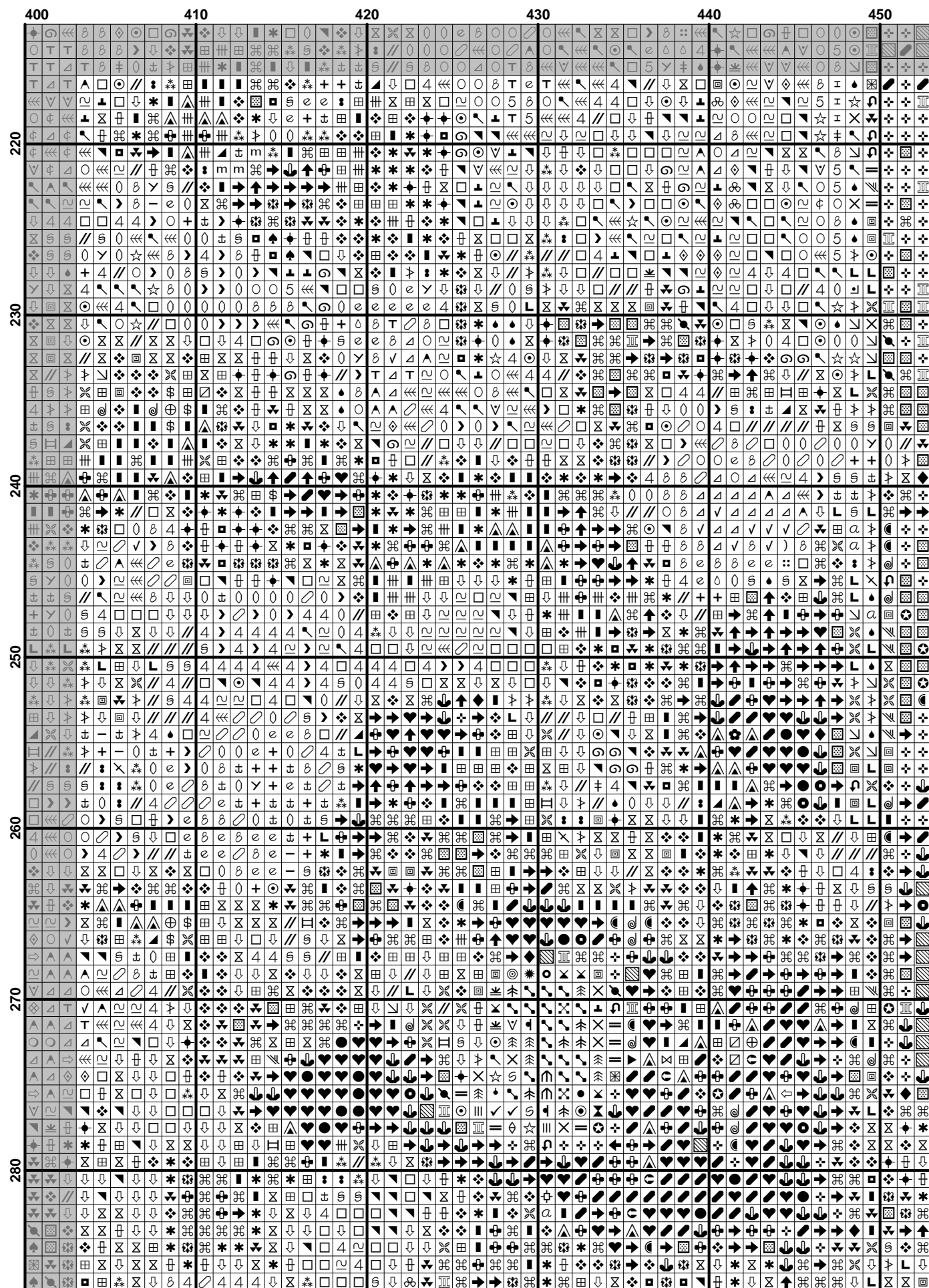
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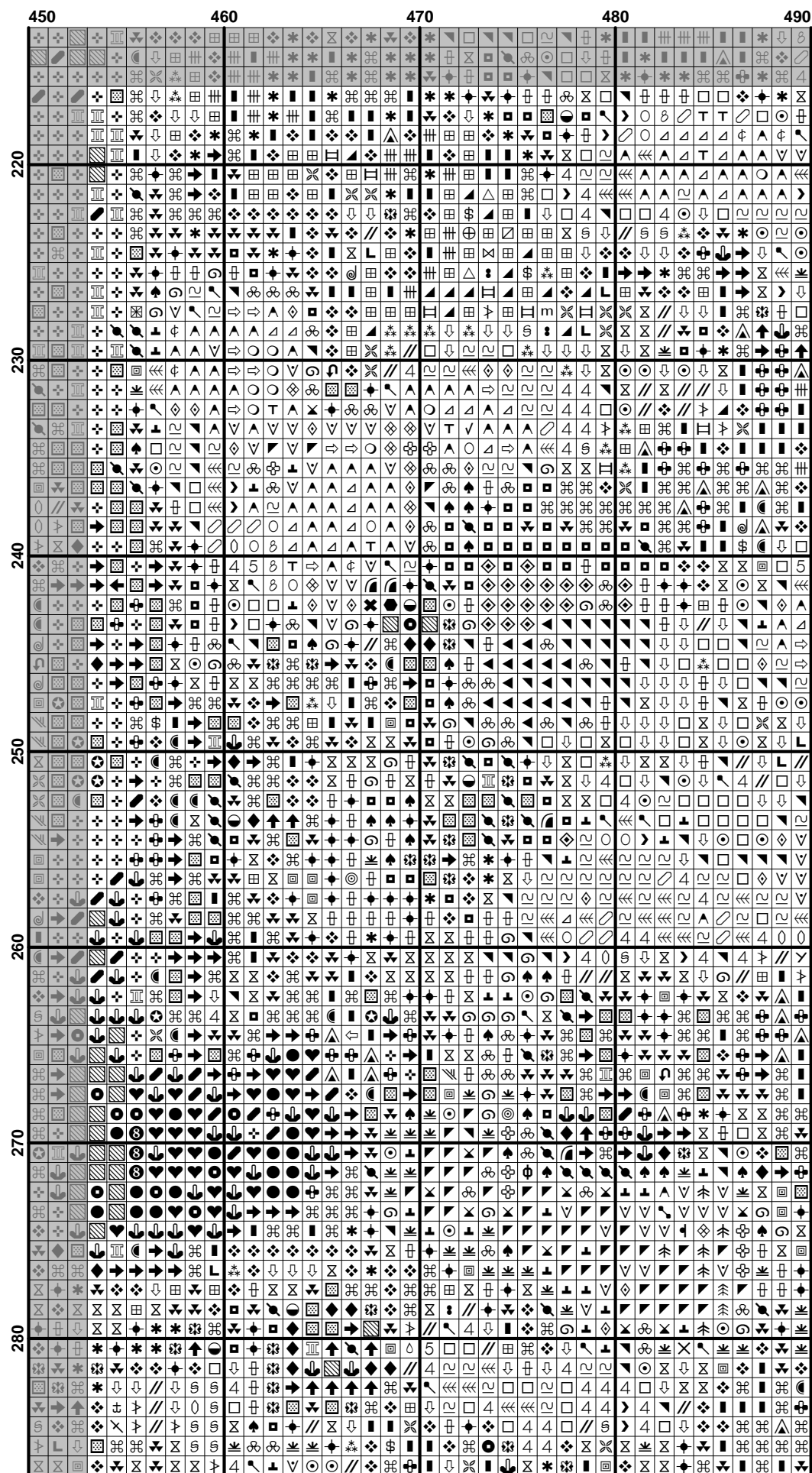
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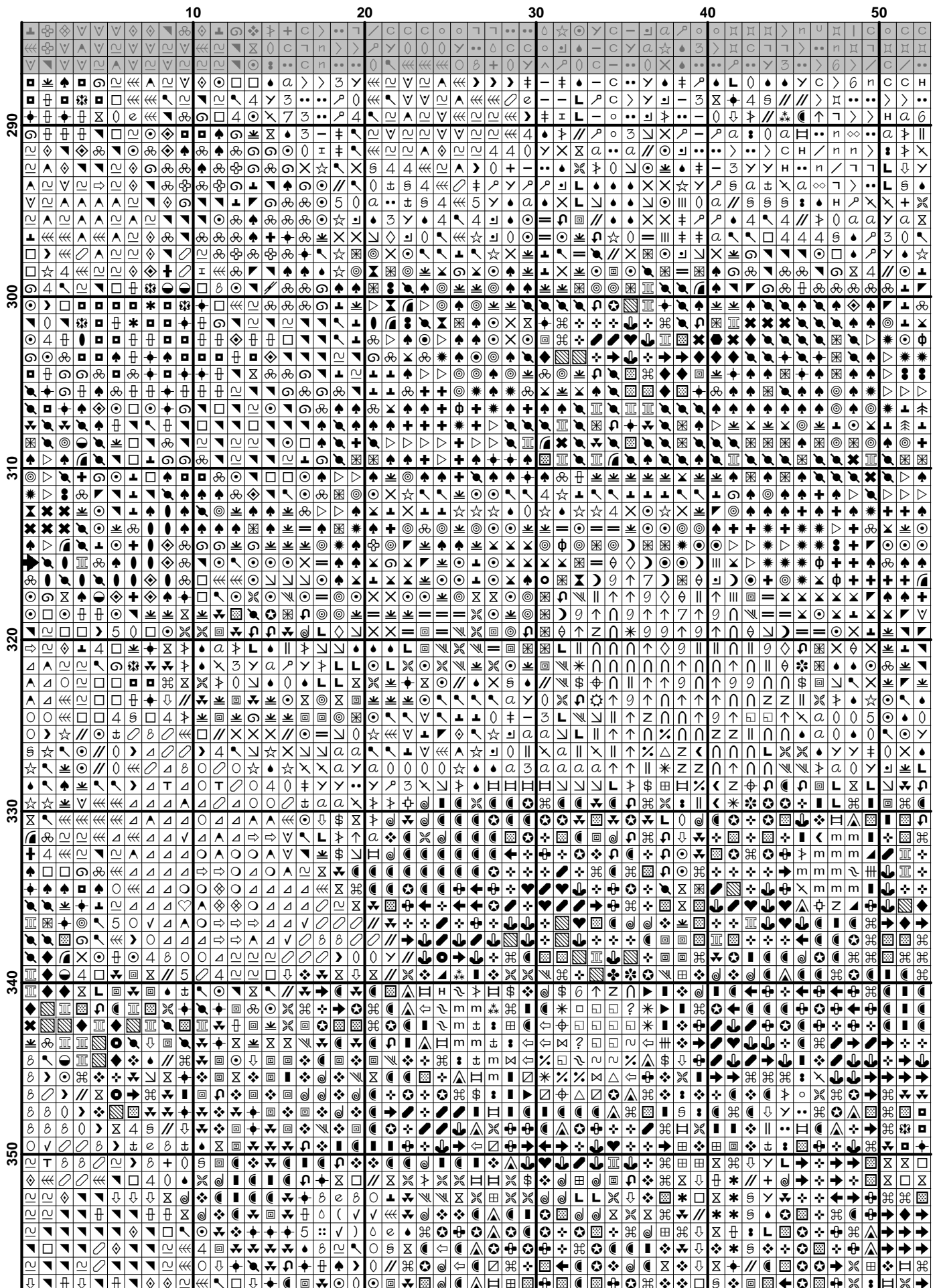


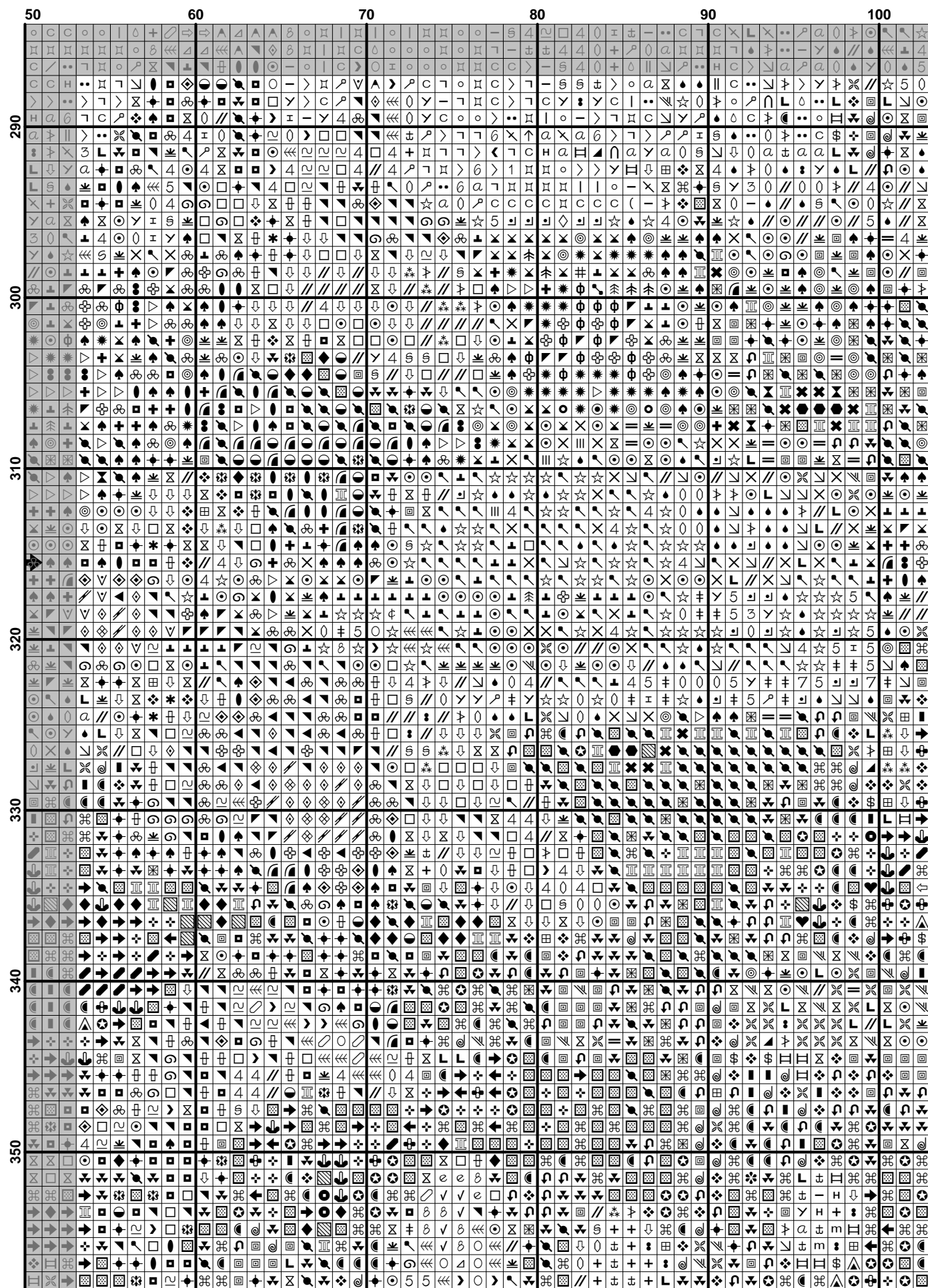


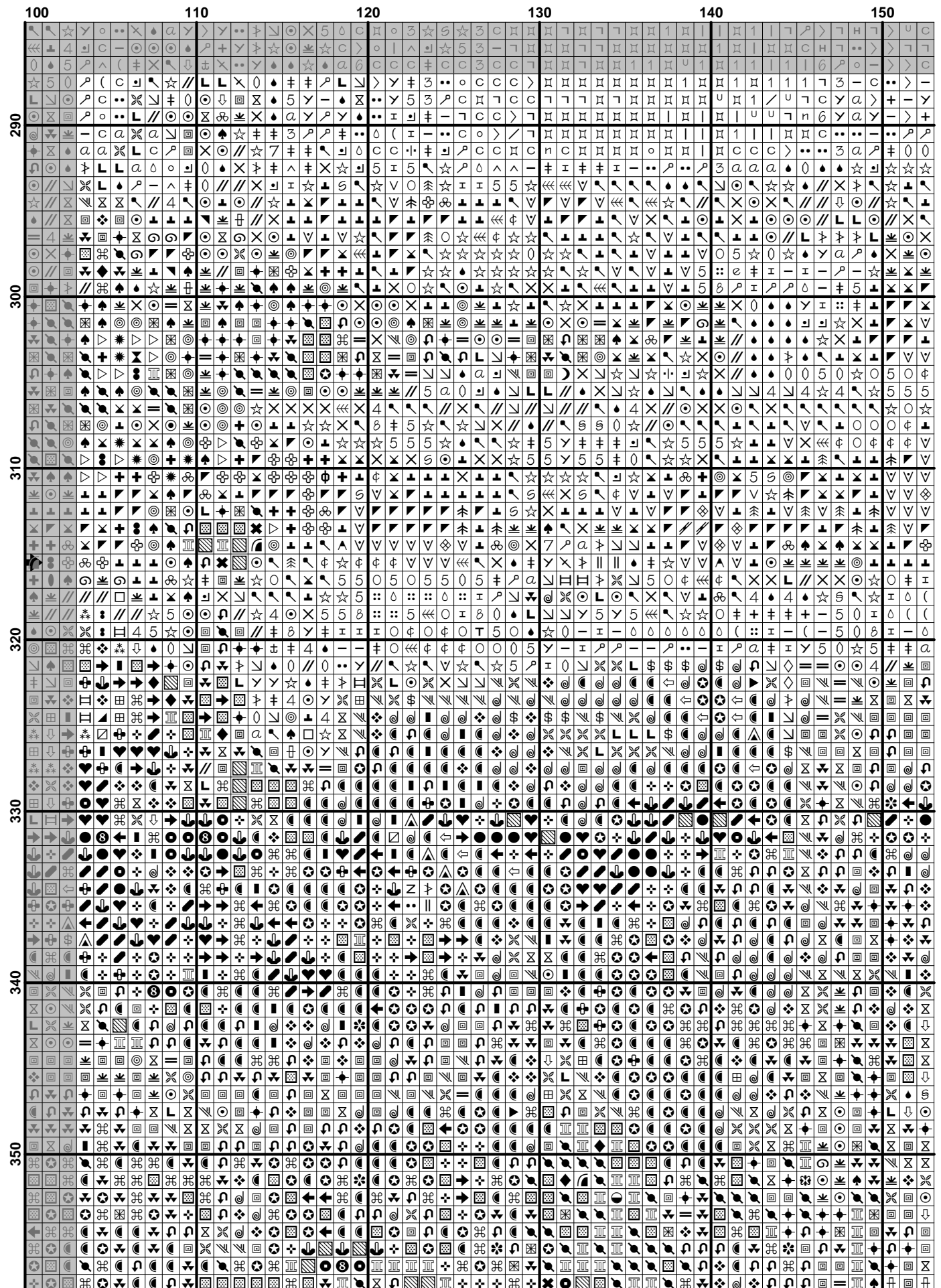


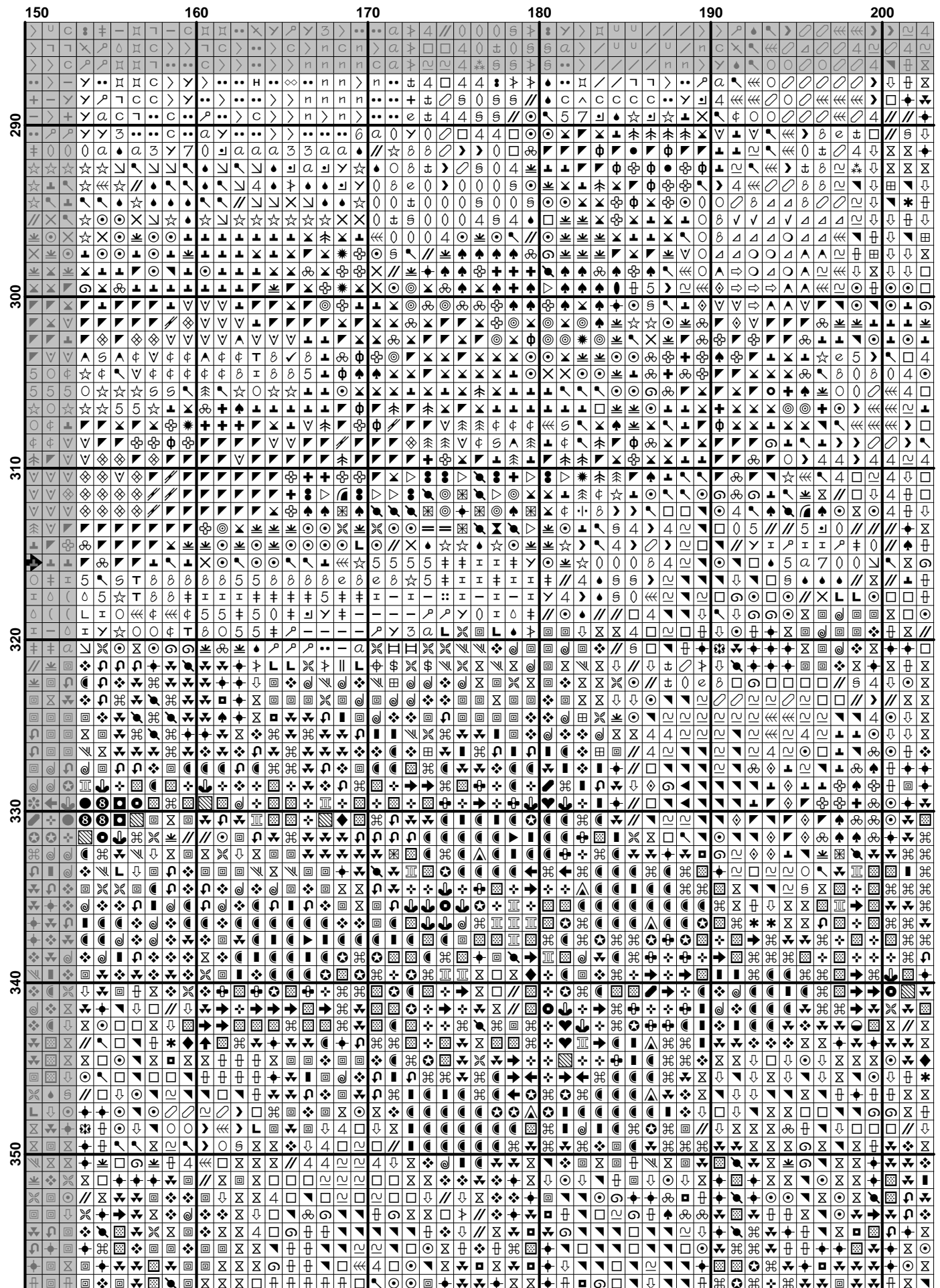


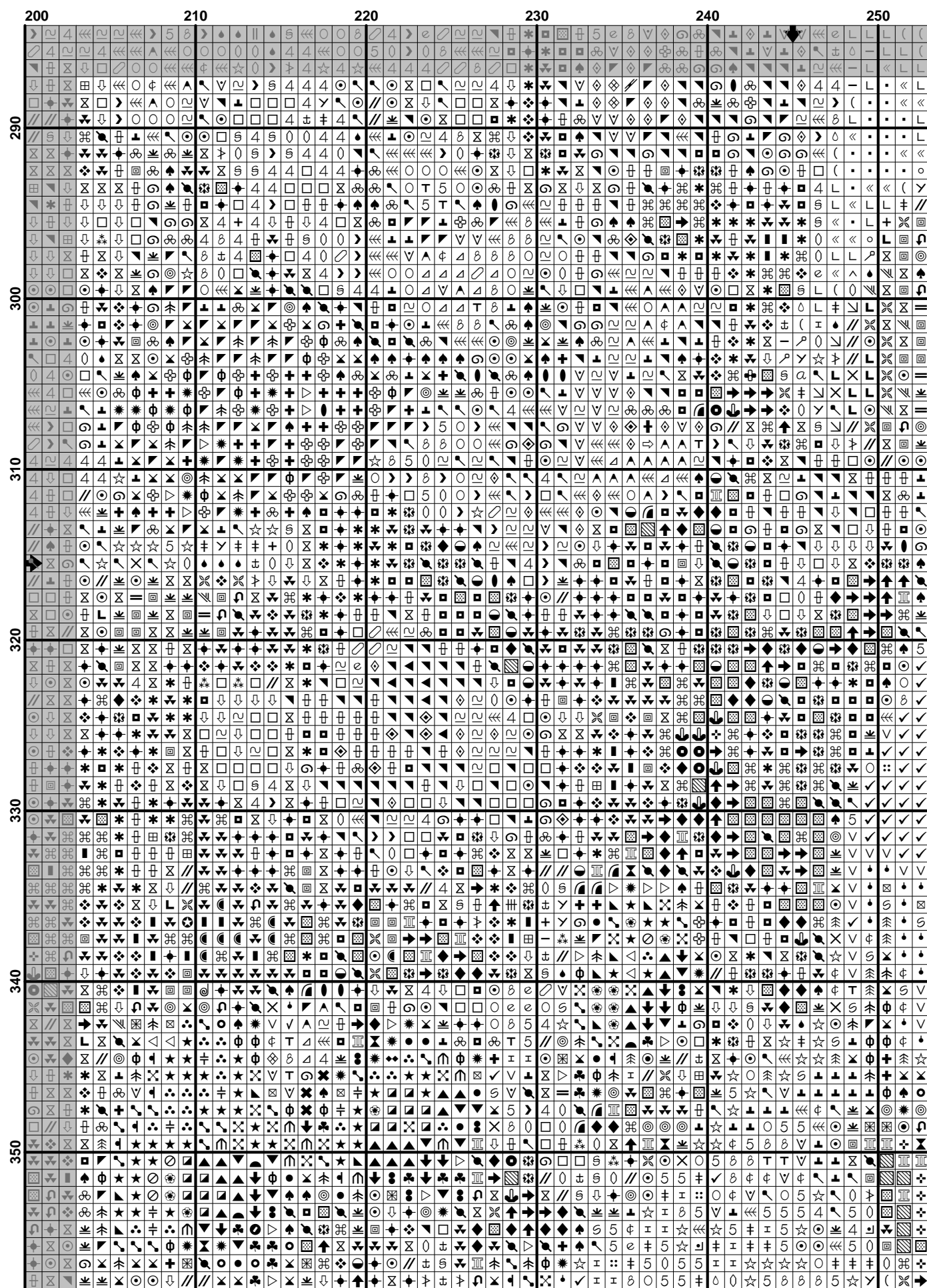


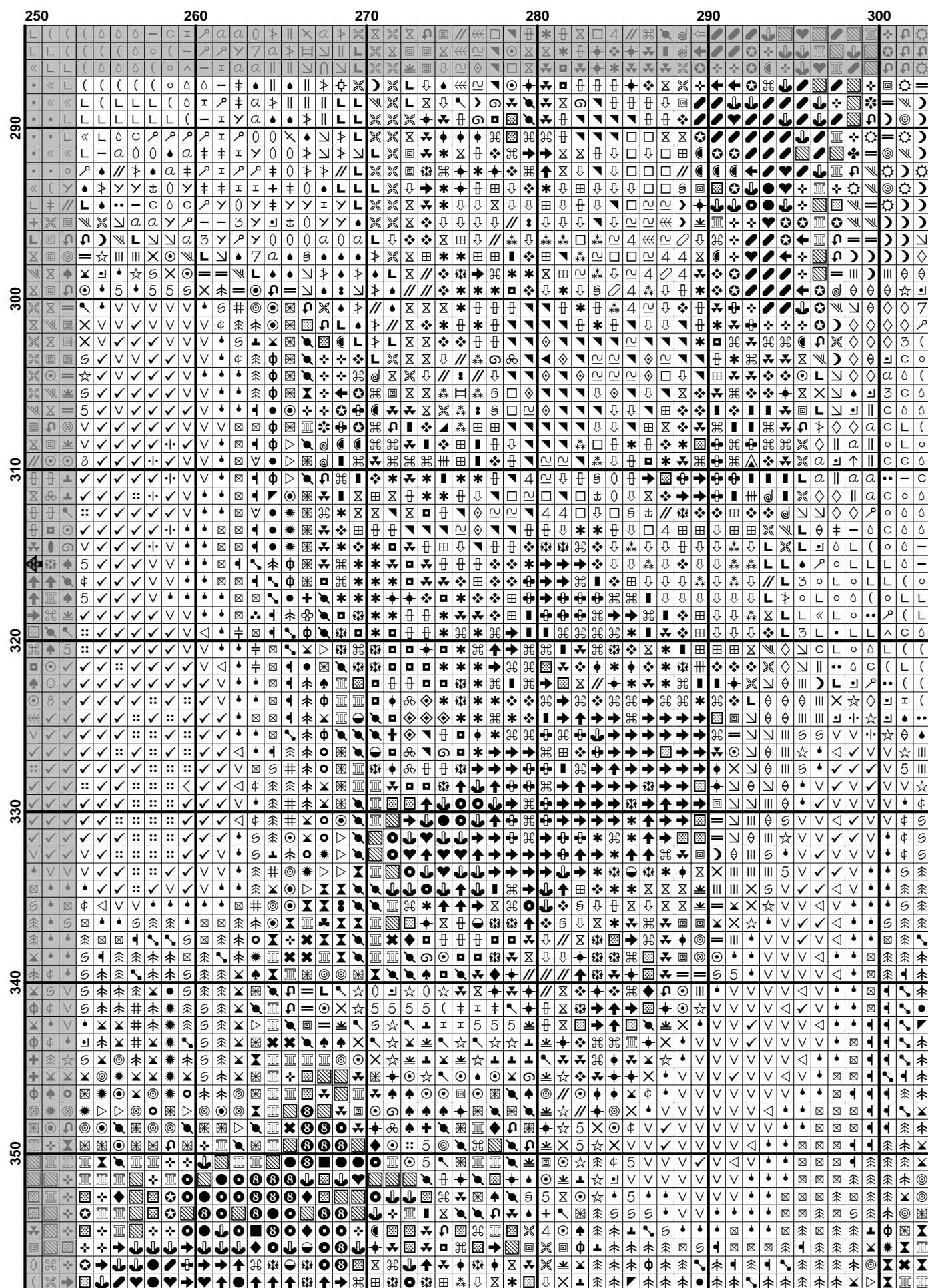


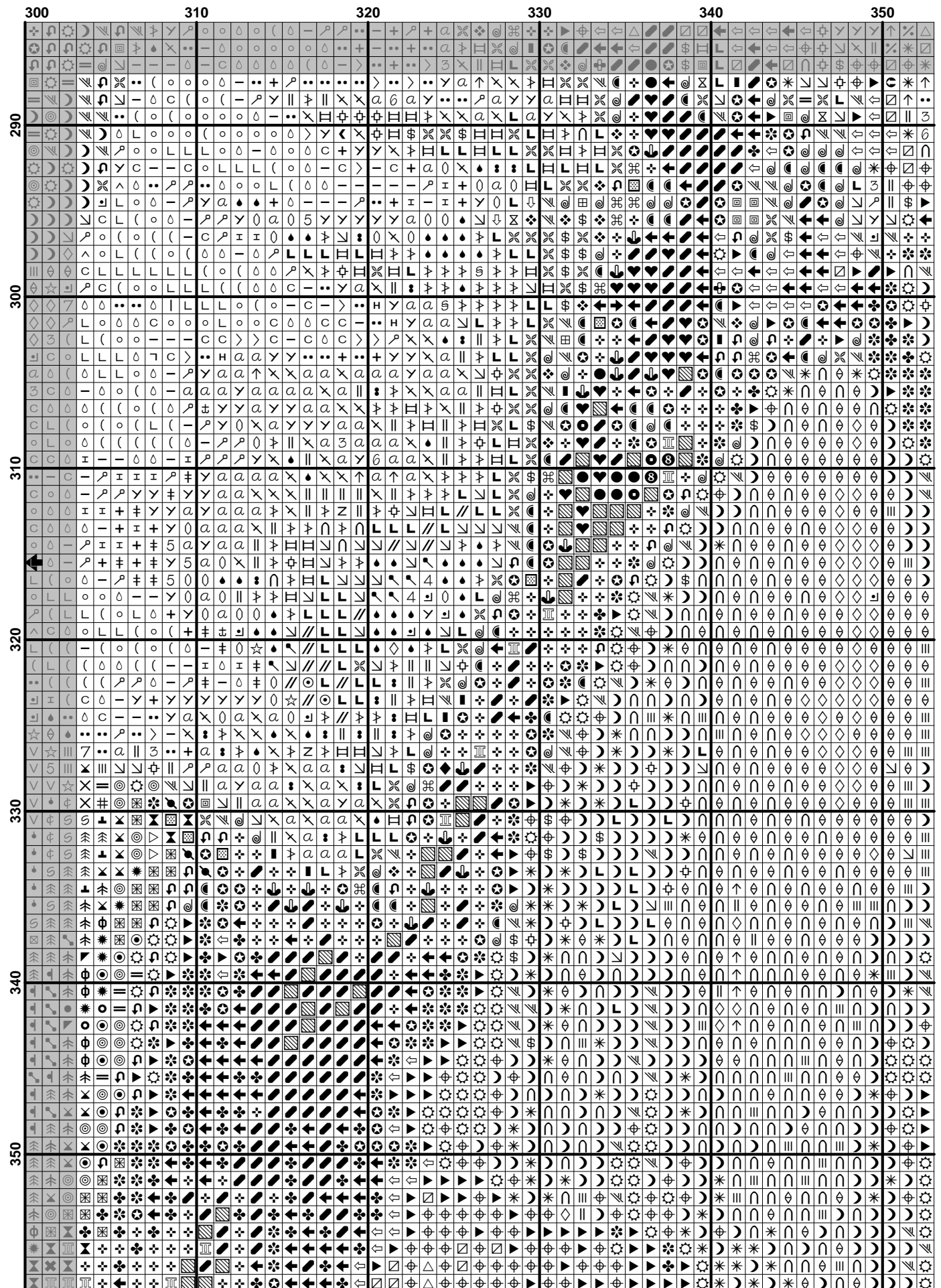


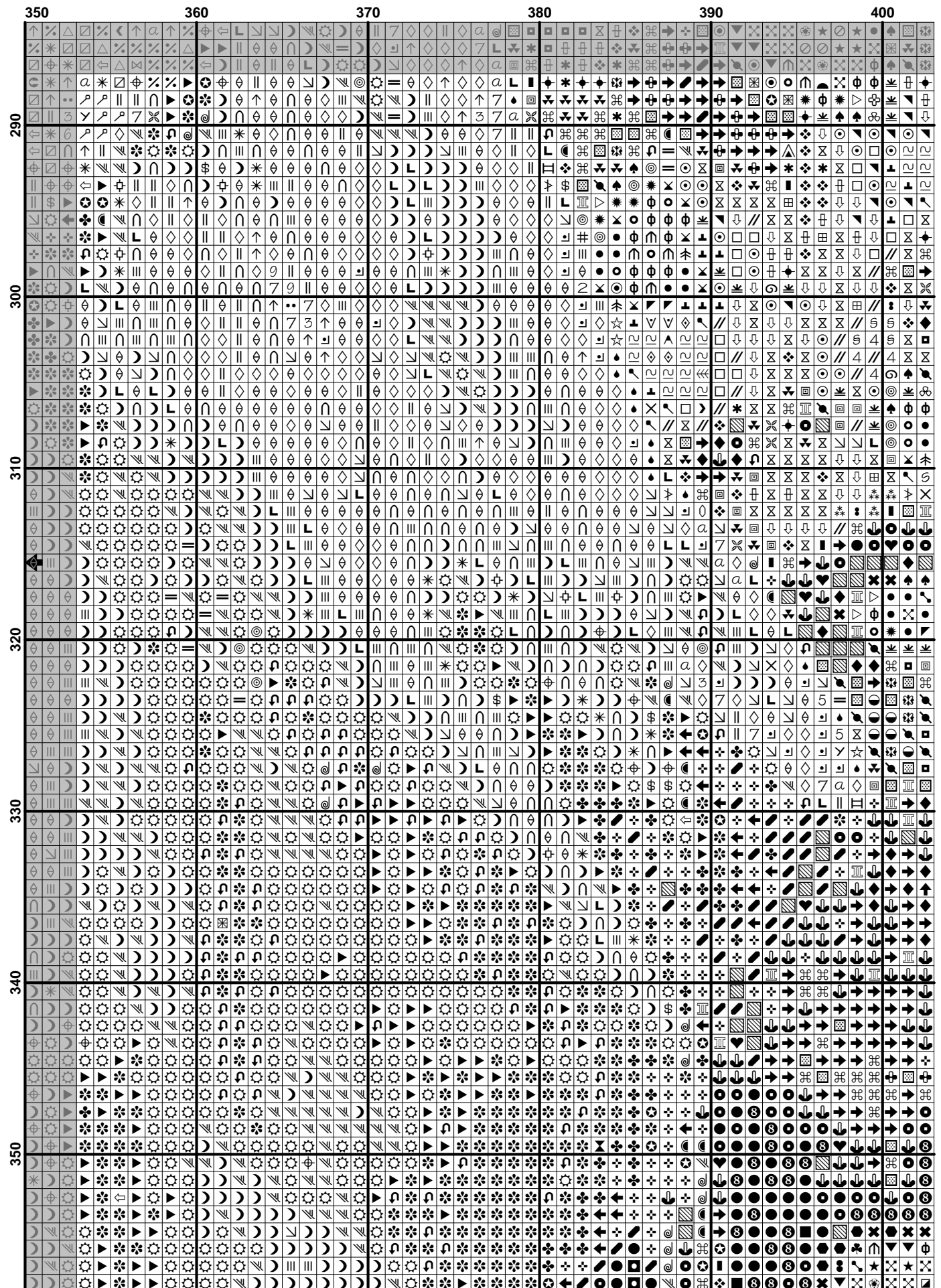


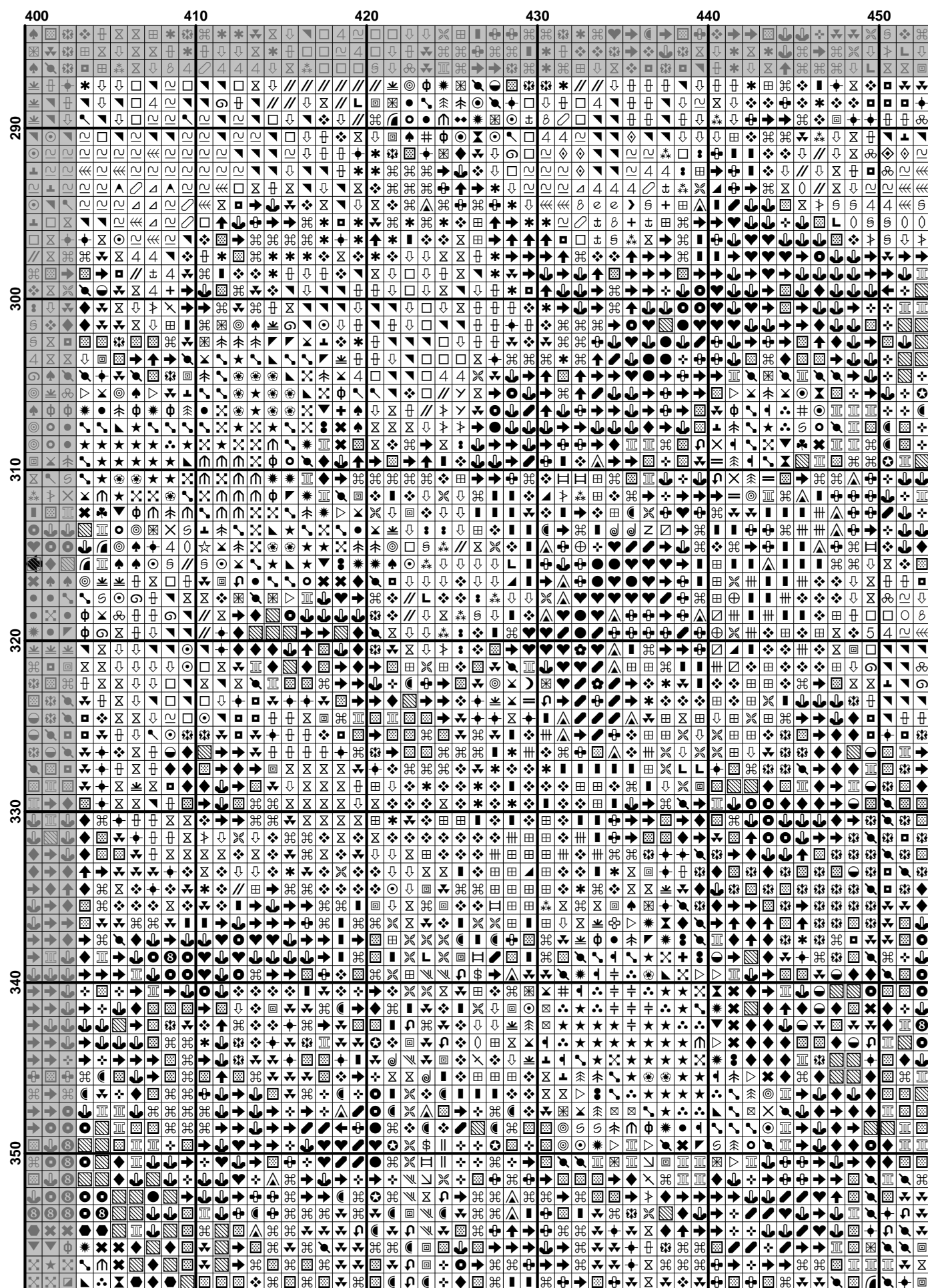


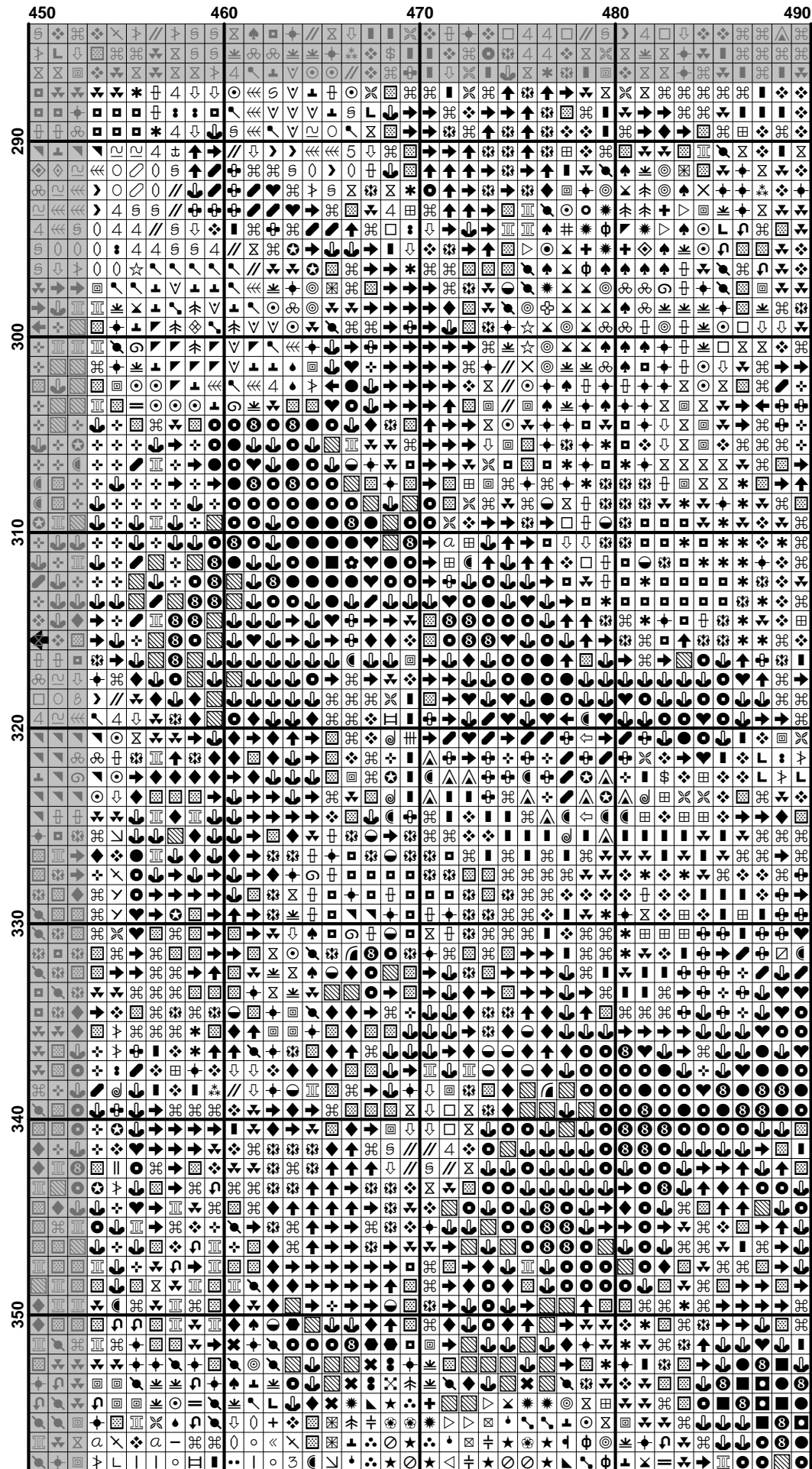












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410
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