

1615 The Mask (medium)



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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 Mask (medium)

Stitch Count	
Horizontal:	340
Vertical:	468

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:	62	24,26	85	33,42	54	21,23	75	29,25	48	18,875	67	26
Including Margins:	78	31	101	40	70	28	91	36	64	25	83	33
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	86	33,96	119	46,78	72	28,3	99	38,99	36	14,15	49	19,49
Including Margins:	102	40	135	53	88	35	115	45	52	21	65	26
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	34	13,58	47	18,71	33	13,06	45	17,99	32	12,57	44	17,32
Including Margins:	50	20	63	25	49	20	61	24	48	19	60	24
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	31	12,13	42	16,71	28	11,32	39	15,59	27	10,61	37	14,62
Including Margins:	47	19	58	23	44	18	55	22	43	17	53	21

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

Symbol	DMC	Name
	221	Shell Pink-VY DK
	223	Shell Pink-LT
	300	Mahogany-VY DK
	310	Black
	407	Desert Sand-DK
	414	Steel Gray-DK
	415	Pearl Gray
	437	Tan-LT
	502	Blue Green
	522	Fern Green
	524	Fern Green-VY LT
	543	Beige Brown-UL VY LT
	563	Jade-LT
	611	Drab Brown
	642	Beige Gray-DK
	646	Beaver Gray-DK
	647	Beaver Gray-MD
	648	Beaver Gray-LT
	680	Old Gold-DK
	712	Cream
	754	Peach-LT
	761	Salmon-LT
	762	Pearl Gray-VY LT
	778	Antique Mauve-VY LT
	809	Delft Blue
	819	Baby Pink-LT
	830	Golden Olive-DK
	831	Golden Olive-MD
	839	Beige Brown-DK
	920	Copper-MD
	926	Gray Green-MD
	927	Gray Green-LT
	928	Gray Green-VY LT
	930	Antique Blue-DK
	931	Antique Blue-MD
	932	Antique Blue-LT
	937	Avocado Green-MD
	938	Coffee Brown-UL DK
	948	Peach-VY LT
	950	Desert Sand-LT
	963	Dusty Rose-UL VY LT
	3024	Brown Gray-VY LT
	3032	Mocha Brown-MD
	3072	Beaver Gray-VY LT
	3328	Salmon-DK
	3348	Yellow Green-LT
	3362	Pine Green-DK
	3713	Salmon-VY LT
	3722	Shell Pink-MD
	3727	Antique Mauve-LT
	3733	Dusty Rose
	3753	Antique Blue-UL VY LT
	3756	Baby Blue-UL VY LT

✚	3768	Gray Green-DK
✚	3772	Desert Sand-VY DK
✚	3776	Mahogany-LT
✚	3777	Terra Cotta-VY DK
✚	3778	Terra Cotta-LT
✚	3779	Terra Cotta-UL VY LT
✚	3787	Brown Gray-DK
✚	3799	Pewter Gray-VY DK
✚	3809	Turquoise-VY DK
✚	3826	Golden Brown
✚	3828	Hazelnut Brown
✚	3829	Old Gold-VY DK
✚	3830	Terra Cotta-MD
✚	3859	Rosewood-LT
✚	3861	Cocoa-LT
✚	3864	Mocha Beige-LT
1	3865	Winter White

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
«	1	White 1	747	Sky Blue-VY LT
u	1	White 1	3865	Winter White
■	221	Shell Pink-VY DK	300	Mahogany-VY DK
■	221	Shell Pink-VY DK	301	Mahogany-MD
✚	221	Shell Pink-VY DK	829	Golden Olive-VY DK
✚	223	Shell Pink-LT	356	Terra Cotta-MD
✚	223	Shell Pink-LT	3861	Cocoa-LT
	224	Shell Pink-VY LT	3733	Dusty Rose
♣	300	Mahogany-VY DK	3777	Terra Cotta-VY DK
★	301	Mahogany-MD	831	Golden Olive-MD
▲	301	Mahogany-MD	869	Hazelnut Brown-VY DK
●	310	Black	895	Hunter Green-VY DK
■	310	Black	934	Black Avocado Green
●	310	Black	935	Avocado Green-DK
✚	310	Black	3799	Pewter Gray-VY DK
+	315	Antique Mauve-VY DK	839	Beige Brown-DK
=	315	Antique Mauve-VY DK	3862	Mocha Beige-DK
■	316	Antique Mauve-MD	318	Steel Gray-LT
✚	316	Antique Mauve-MD	414	Steel Gray-DK
	316	Antique Mauve-MD	452	Shell Gray-MD
■	316	Antique Mauve-MD	647	Beaver Gray-MD
◇	316	Antique Mauve-MD	928	Gray Green-VY LT
#	316	Antique Mauve-MD	3733	Dusty Rose
✚	316	Antique Mauve-MD	3861	Cocoa-LT
≡	318	Steel Gray-LT	793	Cornflower Blue-MD
•	318	Steel Gray-LT	928	Gray Green-VY LT
›	318	Steel Gray-LT	932	Antique Blue-LT
○	347	Salmon-VY DK	355	Terra Cotta-DK
>	353	Peach	948	Peach-VY LT
L	356	Terra Cotta-MD	3830	Terra Cotta-MD
▶	413	Pewter Gray-DK	3740	Antique Violet-DK
•	414	Steel Gray-DK	503	Blue Green-MD
\$	414	Steel Gray-DK	647	Beaver Gray-MD

√	415	Pearl Gray	928	Gray Green-VY LT
⦶	415	Pearl Gray	932	Antique Blue-LT
∅	415	Pearl Gray	963	Dusty Rose-UL VY LT
c	415	Pearl Gray	3024	Brown Gray-VY LT
≡	415	Pearl Gray	3727	Antique Mauve-LT
3	422	Hazelnut Brown-LT	3827	Golden Brown-Pale
^	435	Brown-VY LT	729	Old Gold-MD
⊖	436	Tan	734	Olive Green-LT
⊕	451	Shell Gray-DK	502	Blue Green
▲	451	Shell Gray-DK	535	Ash Gray-VY LT
♣	451	Shell Gray-DK	3860	Cocoa
☆	452	Shell Gray-MD	778	Antique Mauve-VY LT
2	452	Shell Gray-MD	927	Gray Green-LT
+	452	Shell Gray-MD	3727	Antique Mauve-LT
△	452	Shell Gray-MD	3733	Dusty Rose
◁	452	Shell Gray-MD	3779	Terra Cotta-UL VY LT
/	453	Shell Gray-LT	648	Beaver Gray-LT
9	453	Shell Gray-LT	778	Antique Mauve-VY LT
8	453	Shell Gray-LT	950	Desert Sand-LT
▲	502	Blue Green	535	Ash Gray-VY LT
↶	503	Blue Green-MD	927	Gray Green-LT
➔	520	Fern Green-DK	895	Hunter Green-VY DK
☒	520	Fern Green-DK	937	Avocado Green-MD
⬆	520	Fern Green-DK	3021	Brown Gray-VY DK
☒	520	Fern Green-DK	3362	Pine Green-DK
♣	520	Fern Green-DK	3799	Pewter Gray-VY DK
⚙	535	Ash Gray-VY LT	926	Gray Green-MD
)	543	Beige Brown-UL VY LT	948	Peach-VY LT
⌒	610	Drab Brown-DK	611	Drab Brown
✱	610	Drab Brown-DK	830	Golden Olive-DK
☐	611	Drab Brown	3828	Hazelnut Brown
⊕	611	Drab Brown	3829	Old Gold-VY DK
◎	611	Drab Brown	3860	Cocoa
☒	632	Desert Sand-UL VY DK	831	Golden Olive-MD
♦♦	632	Desert Sand-UL VY DK	3830	Terra Cotta-MD
⌘	646	Beaver Gray-DK	647	Beaver Gray-MD
↶	647	Beaver Gray-MD	926	Gray Green-MD
✓	647	Beaver Gray-MD	3023	Brown Gray-LT
↑	729	Old Gold-MD	977	Golden Brown-LT
×	729	Old Gold-MD	3828	Hazelnut Brown
α	738	Tan-VY LT	3046	Yellow Beige-MD
o	747	Sky Blue-VY LT	3756	Baby Blue-UL VY LT
e	758	Terra Cotta-VY LT	3779	Terra Cotta-UL VY LT
m	758	Terra Cotta-VY LT	3864	Mocha Beige-LT
(762	Pearl Gray-VY LT	819	Baby Pink-LT
*	762	Pearl Gray-VY LT	963	Dusty Rose-UL VY LT
-	778	Antique Mauve-VY LT	3733	Dusty Rose
☐	817	Coral Red-VY DK	3777	Terra Cotta-VY DK
^	819	Baby Pink-LT	963	Dusty Rose-UL VY LT
n	819	Baby Pink-LT	3865	Winter White
■	829	Golden Olive-VY DK	830	Golden Olive-DK
*	829	Golden Olive-VY DK	831	Golden Olive-MD
♣	829	Golden Olive-VY DK	869	Hazelnut Brown-VY DK
↓	829	Golden Olive-VY DK	898	Coffee Brown-VY DK
⊕	829	Golden Olive-VY DK	936	Avocado Green-VY DK
⊖	829	Golden Olive-VY DK	3051	Green Gray-DK
⌘	831	Golden Olive-MD	869	Hazelnut Brown-VY DK
⬆	838	Beige Brown-VY DK	3802	Antique Mauve-VY DK
↓	838	Beige Brown-VY DK	3857	Rosewood-DK

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☐	839	Beige Brown-DK	3362	Pine Green-DK
←	839	Beige Brown-DK	3799	Pewter Gray-VY DK
▲	869	Hazelnut Brown-VY DK	898	Coffee Brown-VY DK
♠	869	Hazelnut Brown-VY DK	3051	Green Gray-DK
●	895	Hunter Green-VY DK	3362	Pine Green-DK
◆	895	Hunter Green-VY DK	3799	Pewter Gray-VY DK
⦿	898	Coffee Brown-VY DK	934	Black Avocado Green
⌂	898	Coffee Brown-VY DK	936	Avocado Green-VY DK
☞	898	Coffee Brown-VY DK	938	Coffee Brown-UL DK
⌘	931	Antique Blue-MD	932	Antique Blue-LT
☾	931	Antique Blue-MD	3768	Gray Green-DK
●	934	Black Avocado Green	3371	Black Brown
↑	936	Avocado Green-VY DK	938	Coffee Brown-UL DK
☞	936	Avocado Green-VY DK	3857	Rosewood-DK
↑	948	Peach-VY LT	3770	Tawny-VY LT
↔	963	Dusty Rose-UL VY LT	3727	Antique Mauve-LT
L	963	Dusty Rose-UL VY LT	3743	Antique Violet-VY LT
O	963	Dusty Rose-UL VY LT	3747	Blue Violet-VY LT
☐	3032	Mocha Brown-MD	3772	Desert Sand-VY DK
⊕	3041	Antique Violet-MD	3861	Cocoa-LT
⋈	3328	Salmon-DK	3722	Shell Pink-MD
∩	3328	Salmon-DK	3778	Terra Cotta-LT
⌘	3362	Pine Green-DK	3363	Pine Green-MD
▼	3362	Pine Green-DK	3799	Pewter Gray-VY DK
☐	3712	Salmon-MD	3825	Pumpkin-Pale
⬆	3721	Shell Pink-DK	3863	Mocha Beige-MD
⬇	3726	Antique Mauve-DK	3772	Desert Sand-VY DK
⬆	3726	Antique Mauve-DK	3860	Cocoa
⬇	3726	Antique Mauve-DK	3861	Cocoa-LT
◇	3727	Antique Mauve-LT	3743	Antique Violet-VY LT
5	3727	Antique Mauve-LT	3747	Blue Violet-VY LT
⬆	3743	Antique Violet-VY LT	3753	Antique Blue-UL VY LT
⦿	3830	Terra Cotta-MD	3776	Mahogany-LT
▼	3860	Cocoa	3862	Mocha Beige-DK
H	3861	Cocoa-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	
1	White 1	547	215	521	205	469	184
221	Shell Pink-VY DK	201	79	191	75	172	67
223	Shell Pink-LT	232	91	221	87	199	78
224	Shell Pink-VY LT	19	7	18	7	16	6
300	Mahogany-VY DK	679	267	647	254	582	229
301	Mahogany-MD	200	78	190	74	171	67
310	Black	7588	2987	7226	2844	6504	2560
315	Antique Mauve-VY DK	88	34	84	33	75	29
316	Antique Mauve-MD	419	164	399	157	359	141
318	Steel Gray-LT	149	58	141	55	127	50
347	Salmon-VY DK	8	3	8	3	7	2
353	Peach	20	7	19	7	17	6
355	Terra Cotta-DK	8	3	8	3	7	2
356	Terra Cotta-MD	39	15	37	14	33	12
407	Desert Sand-DK	128	50	122	48	110	43
413	Pewter Gray-DK	32	12	30	11	27	10
414	Steel Gray-DK	214	84	203	79	183	72
415	Pearl Gray	694	273	661	260	594	233
422	Hazelnut Brown-LT	6	2	5	1	5	1
435	Brown-VY LT	142	55	136	53	122	48
436	Tan	33	12	31	12	28	11
437	Tan-LT	18	7	17	6	15	5
451	Shell Gray-DK	207	81	197	77	177	69
452	Shell Gray-MD	438	172	417	164	375	147
453	Shell Gray-LT	190	74	181	71	163	64
502	Blue Green	169	66	161	63	145	57
503	Blue Green-MD	260	102	247	97	222	87
520	Fern Green-DK	178	70	169	66	152	59
522	Fern Green	33	12	31	12	28	11
524	Fern Green-VY LT	124	48	118	46	106	41
535	Ash Gray-VY LT	166	65	158	62	142	55
543	Beige Brown-UL VY LT	204	80	194	76	174	68
563	Jade-LT	17	6	16	6	15	5
610	Drab Brown-DK	395	155	377	148	339	133
611	Drab Brown	514	202	489	192	440	173
632	Desert Sand-UL VY DK	167	65	159	62	143	56
642	Beige Gray-DK	31	12	30	11	27	10
646	Beaver Gray-DK	133	52	126	49	114	44
647	Beaver Gray-MD	331	130	315	124	283	111
648	Beaver Gray-LT	196	77	186	73	168	66
680	Old Gold-DK	178	70	169	66	152	59
712	Cream	254	100	242	95	217	85
729	Old Gold-MD	196	77	186	73	168	66
734	Olive Green-LT	33	12	31	12	28	11
738	Tan-VY LT	3	1	3	1	3	1
747	Sky Blue-VY LT	187	73	178	70	160	62
754	Peach-LT	24	9	23	9	20	7
758	Terra Cotta-VY LT	28	11	27	10	24	9
761	Salmon-LT	23	9	22	8	19	7
762	Pearl Gray-VY LT	695	273	662	260	596	234
778	Antique Mauve-VY LT	309	121	294	115	264	103
793	Cornflower Blue-MD	9	3	8	3	7	2
809	Delft Blue	9	3	9	3	8	3

817	Coral Red-VY DK	49	19	46	18	42	16
819	Baby Pink-LT	1097	431	1045	411	941	370
829	Golden Olive-VY DK	2151	846	2049	806	1844	725
830	Golden Olive-DK	872	343	831	327	748	294
831	Golden Olive-MD	1501	590	1430	562	1287	506
838	Beige Brown-VY DK	47	18	45	17	40	15
839	Beige Brown-DK	312	122	297	116	267	105
869	Hazelnut Brown-VY DK	1741	685	1658	652	1493	587
895	Hunter Green-VY DK	373	146	355	139	320	125
898	Coffee Brown-VY DK	2392	941	2278	896	2050	807
920	Copper-MD	44	17	41	16	37	14
926	Gray Green-MD	230	90	219	86	197	77
927	Gray Green-LT	553	217	526	207	474	186
928	Gray Green-VY LT	477	187	455	179	409	161
930	Antique Blue-DK	41	16	39	15	35	13
931	Antique Blue-MD	91	35	87	34	78	30
932	Antique Blue-LT	137	53	130	51	117	46
934	Black Avocado Green	1547	609	1473	579	1326	522
935	Avocado Green-DK	179	70	171	67	154	60
936	Avocado Green-VY DK	1665	655	1586	624	1427	561
937	Avocado Green-MD	26	10	25	9	22	8
938	Coffee Brown-UL DK	873	343	832	327	749	294
948	Peach-VY LT	189	74	180	70	162	63
950	Desert Sand-LT	102	40	97	38	87	34
963	Dusty Rose-UL VY LT	963	379	917	361	825	324
977	Golden Brown-LT	5	1	5	1	4	1
3021	Brown Gray-VY DK	37	14	35	13	32	12
3023	Brown Gray-LT	38	14	36	14	32	12
3024	Brown Gray-VY LT	432	170	412	162	371	146
3032	Mocha Brown-MD	101	39	96	37	87	34
3041	Antique Violet-MD	48	18	46	18	41	16
3046	Yellow Beige-MD	3	1	3	1	3	1
3051	Green Gray-DK	558	219	531	209	478	188
3072	Beaver Gray-VY LT	476	187	453	178	408	160
3328	Salmon-DK	16	6	15	5	14	5
3348	Yellow Green-LT	4	1	4	1	4	1
3362	Pine Green-DK	345	135	328	129	295	116
3363	Pine Green-MD	50	19	47	18	42	16
3371	Black Brown	563	221	536	211	483	190
3712	Salmon-MD	1	1	1	1	1	1
3713	Salmon-VY LT	66	25	63	24	56	22
3721	Shell Pink-DK	45	17	42	16	38	14
3722	Shell Pink-MD	48	18	45	17	41	16
3726	Antique Mauve-DK	158	62	151	59	136	53
3727	Antique Mauve-LT	536	211	510	200	459	180
3733	Dusty Rose	220	86	210	82	189	74
3740	Antique Violet-DK	32	12	30	11	27	10
3743	Antique Violet-VY LT	334	131	318	125	286	112
3747	Blue Violet-VY LT	32	12	30	11	27	10
3753	Antique Blue-UL VY LT	277	109	263	103	237	93
3756	Baby Blue-UL VY LT	401	157	381	150	343	135
3768	Gray Green-DK	113	44	107	42	97	38
3770	Tawny-VY LT	79	31	75	29	68	26
3772	Desert Sand-VY DK	129	50	123	48	110	43
3776	Mahogany-LT	11	4	11	4	10	3
3777	Terra Cotta-VY DK	520	204	495	194	446	175
3778	Terra Cotta-LT	42	16	40	15	36	14
3779	Terra Cotta-UL VY LT	103	40	98	38	88	34
3787	Brown Gray-DK	158	62	151	59	136	53

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3799	Pewter Gray-VY DK	693	272	660	259	594	233
3802	Antique Mauve-VY DK	8	3	8	3	7	2
3809	Turquoise-VY DK	12	4	11	4	10	3
3825	Pumpkin-Pale	1	1	1	1	1	1
3826	Golden Brown	22	8	21	8	19	7
3827	Golden Brown-Pale	6	2	5	1	5	1
3828	Hazelnut Brown	304	119	290	114	261	102
3829	Old Gold-VY DK	223	87	212	83	191	75
3830	Terra Cotta-MD	71	27	68	26	61	24
3857	Rosewood-DK	665	261	634	249	570	224
3859	Rosewood-LT	103	40	98	38	88	34
3860	Cocoa	176	69	168	66	151	59
3861	Cocoa-LT	506	199	482	189	434	170
3862	Mocha Beige-DK	99	38	95	37	85	33
3863	Mocha Beige-MD	45	17	42	16	38	14
3864	Mocha Beige-LT	155	61	148	58	133	52
3865	Winter White	960	377	915	360	823	324

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	844	331	704	276	352	138
221	Shell Pink-VY DK	310	121	258	101	129	50
223	Shell Pink-LT	358	140	299	117	149	59
224	Shell Pink-VY LT	29	11	24	9	12	5
300	Mahogany-VY DK	1048	412	873	344	437	172
301	Mahogany-MD	308	121	257	101	128	50
310	Black	11707	4608	9756	3840	4878	1920
315	Antique Mauve-VY DK	135	52	113	44	56	22
316	Antique Mauve-MD	646	254	539	212	269	106
318	Steel Gray-LT	229	90	191	75	95	38
347	Salmon-VY DK	13	4	11	3	5	2
353	Peach	31	11	26	9	13	5
355	Terra Cotta-DK	13	4	11	3	5	2
356	Terra Cotta-MD	59	22	50	18	25	9
407	Desert Sand-DK	198	77	165	65	83	32
413	Pewter Gray-DK	49	18	41	15	20	8
414	Steel Gray-DK	329	130	275	108	137	54
415	Pearl Gray	1069	419	891	350	446	175
422	Hazelnut Brown-LT	9	2	8	2	4	1
435	Brown-VY LT	220	86	183	72	92	36
436	Tan	50	20	42	17	21	8
437	Tan-LT	27	9	23	8	11	4
451	Shell Gray-DK	319	124	266	104	133	52
452	Shell Gray-MD	675	265	563	221	281	110
453	Shell Gray-LT	293	115	245	96	122	48
502	Blue Green	261	103	218	86	109	43
503	Blue Green-MD	400	157	333	131	167	65
520	Fern Green-DK	274	106	228	89	114	44
522	Fern Green	50	20	42	17	21	8
524	Fern Green-VY LT	191	74	159	62	80	31
535	Ash Gray-VY LT	256	99	213	83	107	41
543	Beige Brown-UL VY LT	313	122	261	102	131	51
563	Jade-LT	27	9	23	8	11	4
610	Drab Brown-DK	610	239	509	200	254	100
611	Drab Brown	792	311	660	260	330	130

632	Desert Sand-UL VY DK	257	101	215	84	107	42
642	Beige Gray-DK	49	18	41	15	20	8
646	Beaver Gray-DK	205	79	171	66	86	33
647	Beaver Gray-MD	509	200	425	167	212	83
648	Beaver Gray-LT	302	119	252	99	126	50
680	Old Gold-DK	274	106	228	89	114	44
712	Cream	391	153	326	128	163	64
729	Old Gold-MD	302	119	252	99	126	50
734	Olive Green-LT	50	20	42	17	21	8
738	Tan-VY LT	5	2	5	2	2	1
747	Sky Blue-VY LT	288	112	240	93	120	47
754	Peach-LT	36	13	30	11	15	5
758	Terra Cotta-VY LT	43	16	36	14	18	7
761	Salmon-LT	34	13	29	11	14	5
762	Pearl Gray-VY LT	1073	421	894	351	447	176
778	Antique Mauve-VY LT	475	185	396	155	198	77
793	Cornflower Blue-MD	13	4	11	3	5	2
809	Delft Blue	14	5	12	5	6	2
817	Coral Red-VY DK	76	29	63	24	32	12
819	Baby Pink-LT	1694	666	1412	555	706	278
829	Golden Olive-VY DK	3319	1305	2766	1088	1383	544
830	Golden Olive-DK	1346	529	1122	441	561	221
831	Golden Olive-MD	2317	911	1931	759	965	380
838	Beige Brown-VY DK	72	27	60	23	30	11
839	Beige Brown-DK	481	189	401	158	200	79
869	Hazelnut Brown-VY DK	2687	1057	2240	881	1120	440
895	Hunter Green-VY DK	576	225	480	188	240	94
898	Coffee Brown-VY DK	3690	1453	3075	1211	1538	605
920	Copper-MD	67	25	56	21	28	11
926	Gray Green-MD	355	139	296	116	148	58
927	Gray Green-LT	853	335	711	279	356	140
928	Gray Green-VY LT	736	290	614	242	307	121
930	Antique Blue-DK	63	23	53	20	26	10
931	Antique Blue-MD	140	54	117	45	59	23
932	Antique Blue-LT	211	83	176	69	88	35
934	Black Avocado Green	2387	940	1989	783	995	392
935	Avocado Green-DK	277	108	231	90	116	45
936	Avocado Green-VY DK	2569	1010	2141	842	1070	421
937	Avocado Green-MD	40	14	33	12	17	6
938	Coffee Brown-UL DK	1348	529	1124	441	562	221
948	Peach-VY LT	292	113	243	95	122	47
950	Desert Sand-LT	157	61	131	51	65	26
963	Dusty Rose-UL VY LT	1485	583	1238	486	619	243
977	Golden Brown-LT	7	2	6	2	3	1
3021	Brown Gray-VY DK	58	22	48	18	24	9
3023	Brown Gray-LT	58	22	48	18	24	9
3024	Brown Gray-VY LT	668	263	557	219	278	110
3032	Mocha Brown-MD	157	61	131	51	65	26
3041	Antique Violet-MD	74	29	62	24	31	12
3046	Yellow Beige-MD	5	2	5	2	2	1
3051	Green Gray-DK	860	338	717	282	359	141
3072	Beaver Gray-VY LT	734	288	612	240	306	120
3328	Salmon-DK	25	9	21	8	11	4
3348	Yellow Green-LT	7	2	6	2	3	1
3362	Pine Green-DK	531	209	443	174	221	87
3363	Pine Green-MD	76	29	63	24	32	12
3371	Black Brown	869	342	725	285	362	143
3712	Salmon-MD	2	2	2	2	1	1
3713	Salmon-VY LT	101	40	84	33	42	17

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3721	Shell Pink-DK	68	25	57	21	29	11
3722	Shell Pink-MD	74	29	62	24	31	12
3726	Antique Mauve-DK	245	95	204	80	102	40
3727	Antique Mauve-LT	826	324	689	270	344	135
3733	Dusty Rose	340	133	284	111	142	56
3740	Antique Violet-DK	49	18	41	15	20	8
3743	Antique Violet-VY LT	515	202	429	168	215	84
3747	Blue Violet-VY LT	49	18	41	15	20	8
3753	Antique Blue-UL VY LT	427	167	356	140	178	70
3756	Baby Blue-UL VY LT	617	243	515	203	257	101
3768	Gray Green-DK	175	68	146	57	73	29
3770	Tawny-VY LT	122	47	102	39	51	20
3772	Desert Sand-VY DK	198	77	165	65	83	32
3776	Mahogany-LT	18	5	15	5	8	2
3777	Terra Cotta-VY DK	803	315	669	263	335	131
3778	Terra Cotta-LT	65	25	54	21	27	11
3779	Terra Cotta-UL VY LT	158	61	132	51	66	26
3787	Brown Gray-DK	245	95	204	80	102	40
3799	Pewter Gray-VY DK	1069	419	891	350	446	175
3802	Antique Mauve-VY DK	13	4	11	3	5	2
3809	Turquoise-VY DK	18	5	15	5	8	2
3825	Pumpkin-Pale	2	2	2	2	1	1
3826	Golden Brown	34	13	29	11	14	5
3827	Golden Brown-Pale	9	2	8	2	4	1
3828	Hazelnut Brown	470	184	392	153	196	77
3829	Old Gold-VY DK	344	135	287	113	143	56
3830	Terra Cotta-MD	110	43	92	36	46	18
3857	Rosewood-DK	1026	403	855	336	428	168
3859	Rosewood-LT	158	61	132	51	66	26
3860	Cocoa	272	106	227	89	113	44
3861	Cocoa-LT	781	306	651	255	326	128
3862	Mocha Beige-DK	153	59	128	50	64	25
3863	Mocha Beige-MD	68	25	57	21	29	11
3864	Mocha Beige-LT	239	94	200	78	100	39
3865	Winter White	1481	583	1235	486	617	243

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	338	132	325	127	313	123
221	Shell Pink-VY DK	124	48	119	46	115	45
223	Shell Pink-LT	143	56	138	54	133	52
224	Shell Pink-VY LT	12	4	11	4	11	4
300	Mahogany-VY DK	419	165	403	159	388	153
301	Mahogany-MD	123	48	118	46	114	45
310	Black	4683	1843	4503	1772	4336	1707
315	Antique Mauve-VY DK	54	21	52	20	50	19
316	Antique Mauve-MD	258	102	249	98	239	94
318	Steel Gray-LT	91	36	88	35	85	33
347	Salmon-VY DK	5	1	5	1	5	1
353	Peach	12	4	12	4	11	4
355	Terra Cotta-DK	5	1	5	1	5	1
356	Terra Cotta-MD	24	9	23	8	22	8
407	Desert Sand-DK	79	31	76	30	73	29
413	Pewter Gray-DK	19	7	19	7	18	7
414	Steel Gray-DK	132	52	127	50	122	48

415	Pearl Gray	428	168	411	161	396	155
422	Hazelnut Brown-LT	4	1	3	1	3	1
435	Brown-VY LT	88	35	84	33	81	32
436	Tan	20	8	19	8	19	7
437	Tan-LT	11	4	10	3	10	3
451	Shell Gray-DK	127	50	123	48	118	46
452	Shell Gray-MD	270	106	260	102	250	98
453	Shell Gray-LT	117	46	113	44	109	43
502	Blue Green	104	41	100	39	97	38
503	Blue Green-MD	160	63	154	60	148	58
520	Fern Green-DK	109	42	105	41	101	39
522	Fern Green	20	8	19	8	19	7
524	Fern Green-VY LT	76	30	73	28	71	27
535	Ash Gray-VY LT	102	40	98	38	95	37
543	Beige Brown-UL VY LT	125	49	120	47	116	45
563	Jade-LT	11	4	10	3	10	3
610	Drab Brown-DK	244	96	235	92	226	89
611	Drab Brown	317	125	305	120	293	115
632	Desert Sand-UL VY DK	103	40	99	39	95	37
642	Beige Gray-DK	19	7	19	7	18	7
646	Beaver Gray-DK	82	32	79	30	76	29
647	Beaver Gray-MD	204	80	196	77	189	74
648	Beaver Gray-LT	121	48	116	46	112	44
680	Old Gold-DK	109	42	105	41	101	39
712	Cream	156	61	150	59	145	57
729	Old Gold-MD	121	48	116	46	112	44
734	Olive Green-LT	20	8	19	8	19	7
738	Tan-VY LT	2	1	2	1	2	1
747	Sky Blue-VY LT	115	45	111	43	107	41
754	Peach-LT	14	5	14	5	13	5
758	Terra Cotta-VY LT	17	6	17	6	16	6
761	Salmon-LT	14	5	13	5	13	5
762	Pearl Gray-VY LT	429	168	413	162	397	156
778	Antique Mauve-VY LT	190	74	183	71	176	69
793	Cornflower Blue-MD	5	1	5	1	5	1
809	Delft Blue	6	2	6	2	5	2
817	Coral Red-VY DK	30	12	29	11	28	11
819	Baby Pink-LT	678	266	651	256	627	247
829	Golden Olive-VY DK	1328	522	1277	502	1229	483
830	Golden Olive-DK	539	212	518	204	499	196
831	Golden Olive-MD	927	364	891	350	858	337
838	Beige Brown-VY DK	29	11	28	10	27	10
839	Beige Brown-DK	192	76	185	73	178	70
869	Hazelnut Brown-VY DK	1075	423	1034	406	995	391
895	Hunter Green-VY DK	230	90	222	87	213	83
898	Coffee Brown-VY DK	1476	581	1419	559	1367	538
920	Copper-MD	27	10	26	10	25	9
926	Gray Green-MD	142	55	136	53	131	51
927	Gray Green-LT	341	134	328	129	316	124
928	Gray Green-VY LT	294	116	283	111	273	107
930	Antique Blue-DK	25	9	24	9	23	9
931	Antique Blue-MD	56	22	54	21	52	20
932	Antique Blue-LT	84	33	81	32	78	31
934	Black Avocado Green	955	376	918	361	884	348
935	Avocado Green-DK	111	43	107	42	103	40
936	Avocado Green-VY DK	1027	404	988	388	951	374
937	Avocado Green-MD	16	6	15	6	15	5
938	Coffee Brown-UL DK	539	212	519	204	499	196
948	Peach-VY LT	117	45	112	44	108	42

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950	Desert Sand-LT	63	24	60	24	58	23
963	Dusty Rose-UL VY LT	594	233	571	224	550	216
977	Golden Brown-LT	3	1	3	1	3	1
3021	Brown Gray-VY DK	23	9	22	8	21	8
3023	Brown Gray-LT	23	9	22	8	21	8
3024	Brown Gray-VY LT	267	105	257	101	247	97
3032	Mocha Brown-MD	63	24	60	24	58	23
3041	Antique Violet-MD	30	12	28	11	27	11
3046	Yellow Beige-MD	2	1	2	1	2	1
3051	Green Gray-DK	344	135	331	130	319	125
3072	Beaver Gray-VY LT	294	115	282	111	272	107
3328	Salmon-DK	10	4	10	3	9	3
3348	Yellow Green-LT	3	1	3	1	3	1
3362	Pine Green-DK	212	84	204	80	197	77
3363	Pine Green-MD	30	12	29	11	28	11
3371	Black Brown	348	137	334	132	322	127
3712	Salmon-MD	1	1	1	1	1	1
3713	Salmon-VY LT	40	16	39	15	37	15
3721	Shell Pink-DK	27	10	26	10	25	9
3722	Shell Pink-MD	30	12	28	11	27	11
3726	Antique Mauve-DK	98	38	94	37	91	35
3727	Antique Mauve-LT	330	130	318	125	306	120
3733	Dusty Rose	136	53	131	51	126	49
3740	Antique Violet-DK	19	7	19	7	18	7
3743	Antique Violet-VY LT	206	81	198	78	191	75
3747	Blue Violet-VY LT	19	7	19	7	18	7
3753	Antique Blue-UL VY LT	171	67	164	64	158	62
3756	Baby Blue-UL VY LT	247	97	237	93	229	90
3768	Gray Green-DK	70	27	67	26	65	25
3770	Tawny-VY LT	49	19	47	18	45	17
3772	Desert Sand-VY DK	79	31	76	30	73	29
3776	Mahogany-LT	7	2	7	2	7	2
3777	Terra Cotta-VY DK	321	126	309	121	297	117
3778	Terra Cotta-LT	26	10	25	10	24	9
3779	Terra Cotta-UL VY LT	63	24	61	24	59	23
3787	Brown Gray-DK	98	38	94	37	91	35
3799	Pewter Gray-VY DK	428	168	411	161	396	155
3802	Antique Mauve-VY DK	5	1	5	1	5	1
3809	Turquoise-VY DK	7	2	7	2	7	2
3825	Pumpkin-Pale	1	1	1	1	1	1
3826	Golden Brown	14	5	13	5	13	5
3827	Golden Brown-Pale	4	1	3	1	3	1
3828	Hazelnut Brown	188	73	181	71	174	68
3829	Old Gold-VY DK	138	54	132	52	127	50
3830	Terra Cotta-MD	44	17	42	17	41	16
3857	Rosewood-DK	410	161	395	155	380	149
3859	Rosewood-LT	63	24	61	24	59	23
3860	Cocoa	109	42	105	41	101	39
3861	Cocoa-LT	312	122	300	118	289	113
3862	Mocha Beige-DK	61	24	59	23	57	22
3863	Mocha Beige-MD	27	10	26	10	25	9
3864	Mocha Beige-LT	96	37	92	36	89	35
3865	Winter White	593	233	570	224	549	216

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
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		28		30		32	
1	White 1	302	118	281	110	264	104
221	Shell Pink-VY DK	111	43	103	40	97	38
223	Shell Pink-LT	128	50	119	47	112	44
224	Shell Pink-VY LT	10	4	10	4	9	3
300	Mahogany-VY DK	374	147	349	137	327	129
301	Mahogany-MD	110	43	103	40	96	38
310	Black	4181	1646	3902	1536	3659	1440
315	Antique Mauve-VY DK	48	19	45	17	42	16
316	Antique Mauve-MD	231	91	215	85	202	79
318	Steel Gray-LT	82	32	76	30	71	28
347	Salmon-VY DK	5	1	4	1	4	1
353	Peach	11	4	10	4	10	3
355	Terra Cotta-DK	5	1	4	1	4	1
356	Terra Cotta-MD	21	8	20	7	19	7
407	Desert Sand-DK	71	28	66	26	62	24
413	Pewter Gray-DK	17	6	16	6	15	6
414	Steel Gray-DK	118	46	110	43	103	41
415	Pearl Gray	382	150	356	140	334	131
422	Hazelnut Brown-LT	3	1	3	1	3	1
435	Brown-VY LT	78	31	73	29	69	27
436	Tan	18	7	17	7	16	6
437	Tan-LT	10	3	9	3	8	3
451	Shell Gray-DK	114	44	106	41	100	39
452	Shell Gray-MD	241	95	225	88	211	83
453	Shell Gray-LT	105	41	98	38	92	36
502	Blue Green	93	37	87	34	82	32
503	Blue Green-MD	143	56	133	52	125	49
520	Fern Green-DK	98	38	91	35	86	33
522	Fern Green	18	7	17	7	16	6
524	Fern Green-VY LT	68	26	64	25	60	23
535	Ash Gray-VY LT	91	35	85	33	80	31
543	Beige Brown-UL VY LT	112	44	104	41	98	38
563	Jade-LT	10	3	9	3	8	3
610	Drab Brown-DK	218	86	203	80	191	75
611	Drab Brown	283	111	264	104	248	97
632	Desert Sand-UL VY DK	92	36	86	34	80	32
642	Beige Gray-DK	17	6	16	6	15	6
646	Beaver Gray-DK	73	28	68	26	64	25
647	Beaver Gray-MD	182	71	170	67	159	62
648	Beaver Gray-LT	108	42	101	40	95	37
680	Old Gold-DK	98	38	91	35	86	33
712	Cream	140	55	130	51	122	48
729	Old Gold-MD	108	42	101	40	95	37
734	Olive Green-LT	18	7	17	7	16	6
738	Tan-VY LT	2	1	2	1	2	1
747	Sky Blue-VY LT	103	40	96	37	90	35
754	Peach-LT	13	5	12	4	11	4
758	Terra Cotta-VY LT	15	6	14	5	14	5
761	Salmon-LT	12	5	11	4	11	4
762	Pearl Gray-VY LT	383	150	358	140	335	132
778	Antique Mauve-VY LT	170	66	158	62	149	58
793	Cornflower Blue-MD	5	1	4	1	4	1
809	Delft Blue	5	2	5	2	5	2
817	Coral Red-VY DK	27	10	25	10	24	9
819	Baby Pink-LT	605	238	565	222	529	208
829	Golden Olive-VY DK	1185	466	1106	435	1037	408
830	Golden Olive-DK	481	189	449	176	421	165
831	Golden Olive-MD	827	325	772	304	724	285

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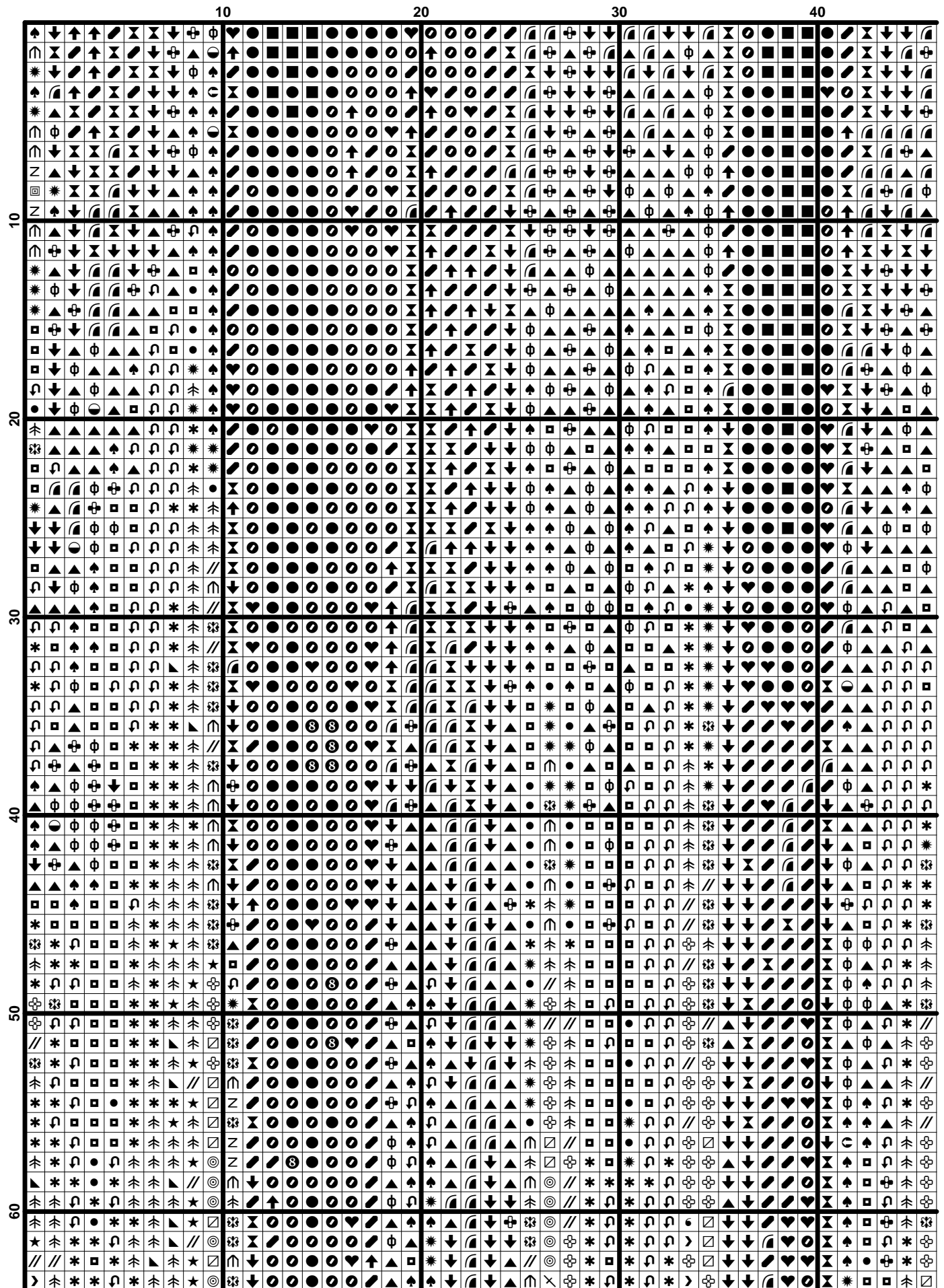
838	Beige Brown-VY DK	26	10	24	9	23	8
839	Beige Brown-DK	172	68	160	63	150	59
869	Hazelnut Brown-VY DK	960	377	896	352	840	330
895	Hunter Green-VY DK	206	80	192	75	180	70
898	Coffee Brown-VY DK	1318	519	1230	484	1153	454
920	Copper-MD	24	9	22	8	21	8
926	Gray Green-MD	127	50	118	46	111	43
927	Gray Green-LT	305	120	284	112	267	105
928	Gray Green-VY LT	263	104	245	97	230	91
930	Antique Blue-DK	23	8	21	8	20	7
931	Antique Blue-MD	50	19	47	18	44	17
932	Antique Blue-LT	75	30	70	28	66	26
934	Black Avocado Green	852	336	796	313	746	294
935	Avocado Green-DK	99	39	92	36	87	34
936	Avocado Green-VY DK	917	361	856	337	803	316
937	Avocado Green-MD	14	5	13	5	12	5
938	Coffee Brown-UL DK	482	189	449	176	421	165
948	Peach-VY LT	104	41	97	38	91	35
950	Desert Sand-LT	56	22	52	20	49	19
963	Dusty Rose-UL VY LT	530	208	495	194	464	182
977	Golden Brown-LT	3	1	2	1	2	1
3021	Brown Gray-VY DK	21	8	19	7	18	7
3023	Brown Gray-LT	21	8	19	7	18	7
3024	Brown Gray-VY LT	239	94	223	88	209	82
3032	Mocha Brown-MD	56	22	52	20	49	19
3041	Antique Violet-MD	26	10	25	10	23	9
3046	Yellow Beige-MD	2	1	2	1	2	1
3051	Green Gray-DK	307	121	287	113	269	106
3072	Beaver Gray-VY LT	262	103	245	96	230	90
3328	Salmon-DK	9	3	8	3	8	3
3348	Yellow Green-LT	3	1	2	1	2	1
3362	Pine Green-DK	190	75	177	70	166	65
3363	Pine Green-MD	27	10	25	10	24	9
3371	Black Brown	311	122	290	114	272	107
3712	Salmon-MD	1	1	1	1	1	1
3713	Salmon-VY LT	36	14	34	13	32	12
3721	Shell Pink-DK	24	9	23	8	21	8
3722	Shell Pink-MD	26	10	25	10	23	9
3726	Antique Mauve-DK	87	34	82	32	77	30
3727	Antique Mauve-LT	295	116	275	108	258	101
3733	Dusty Rose	122	48	113	44	106	42
3740	Antique Violet-DK	17	6	16	6	15	6
3743	Antique Violet-VY LT	184	72	172	67	161	63
3747	Blue Violet-VY LT	17	6	16	6	15	6
3753	Antique Blue-UL VY LT	152	60	142	56	133	52
3756	Baby Blue-UL VY LT	221	87	206	81	193	76
3768	Gray Green-DK	62	24	58	23	55	21
3770	Tawny-VY LT	44	17	41	16	38	15
3772	Desert Sand-VY DK	71	28	66	26	62	24
3776	Mahogany-LT	6	2	6	2	6	2
3777	Terra Cotta-VY DK	287	113	268	105	251	98
3778	Terra Cotta-LT	23	9	22	8	20	8
3779	Terra Cotta-UL VY LT	57	22	53	20	50	19
3787	Brown Gray-DK	87	34	82	32	77	30
3799	Pewter Gray-VY DK	382	150	356	140	334	131
3802	Antique Mauve-VY DK	5	1	4	1	4	1
3809	Turquoise-VY DK	6	2	6	2	6	2
3825	Pumpkin-Pale	1	1	1	1	1	1
3826	Golden Brown	12	5	11	4	11	4

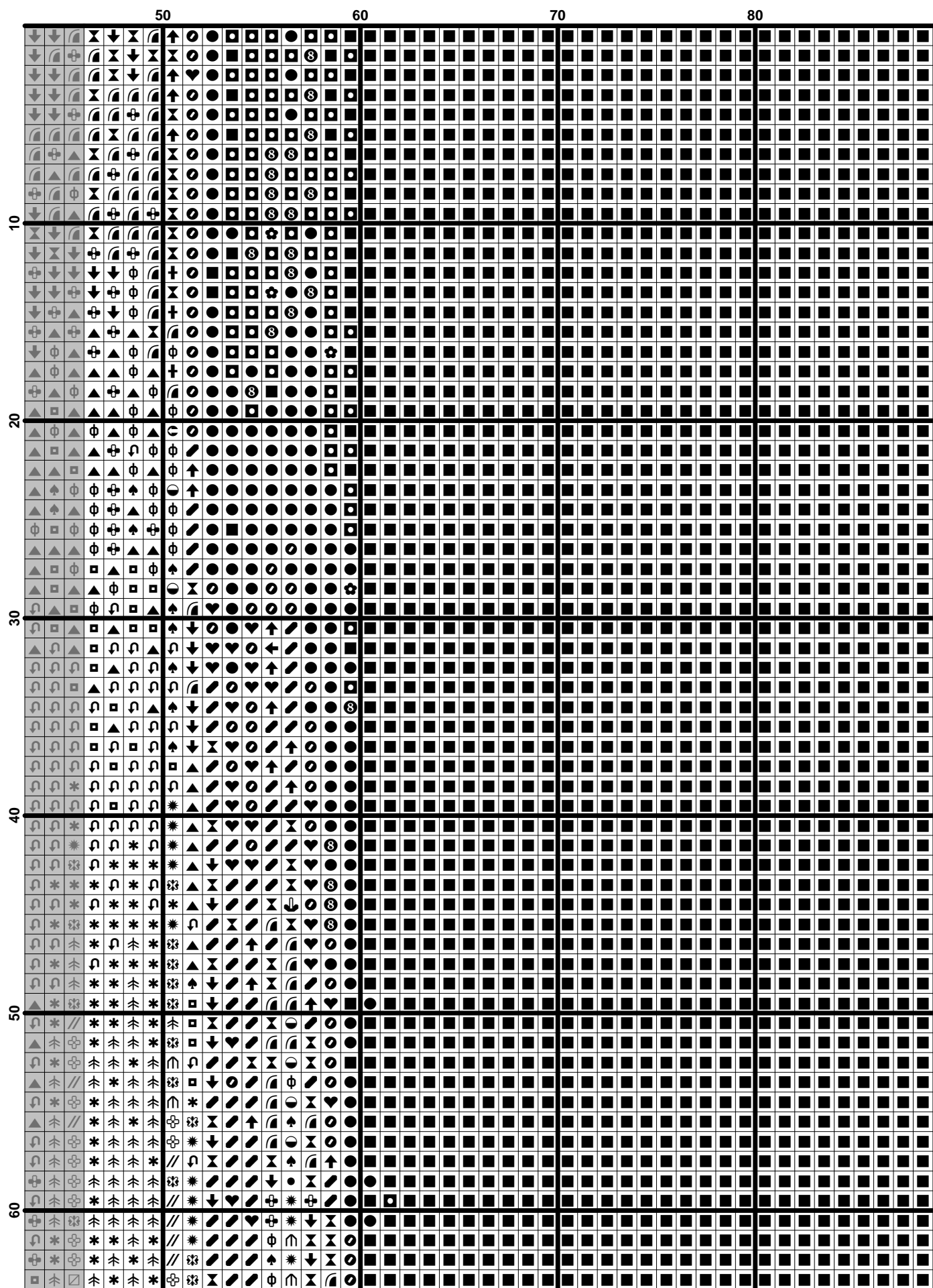
Copyright (c) 2010-, Golden Kite (Golden K.)

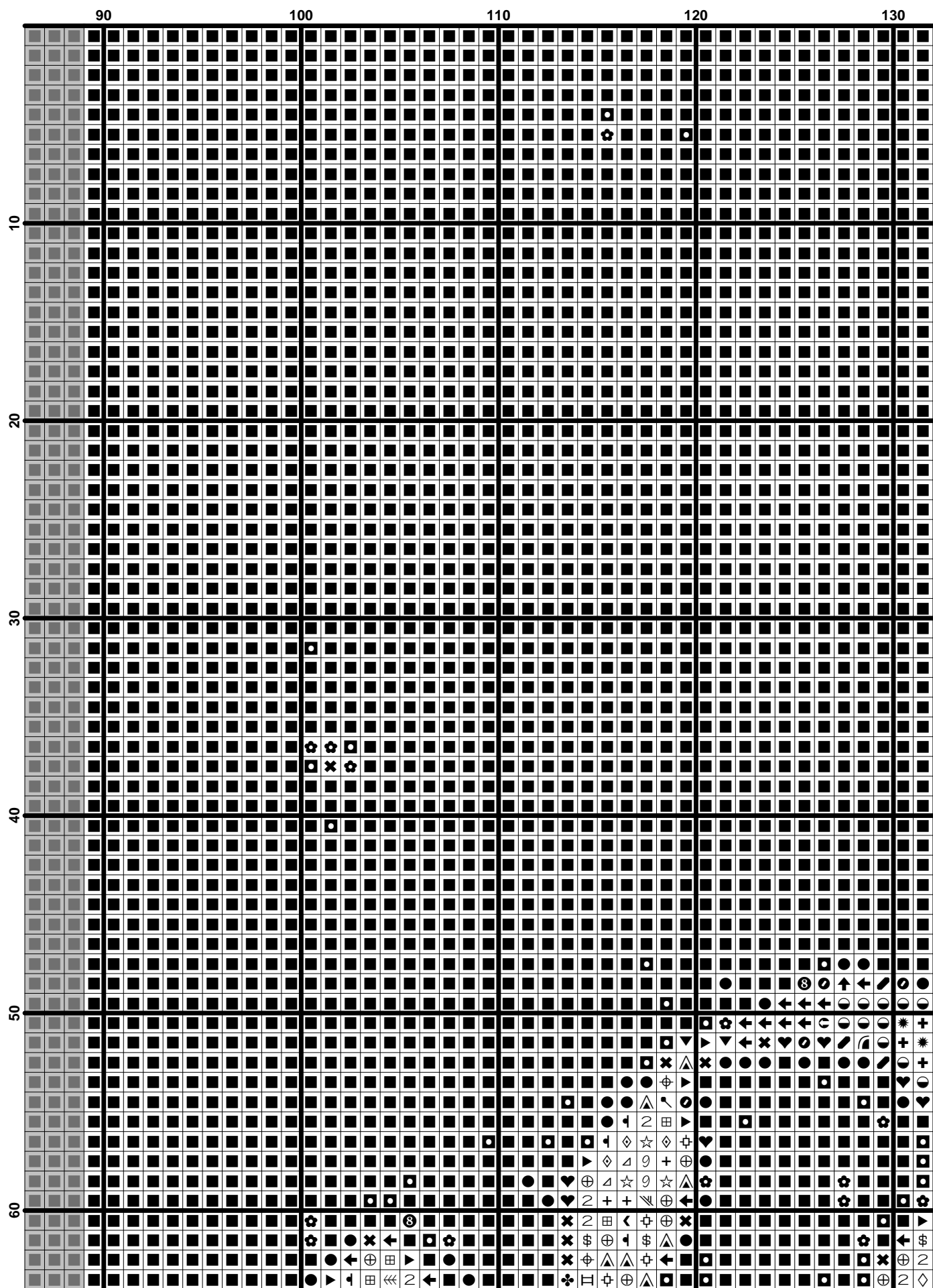
Internet: www.goldenkite.com

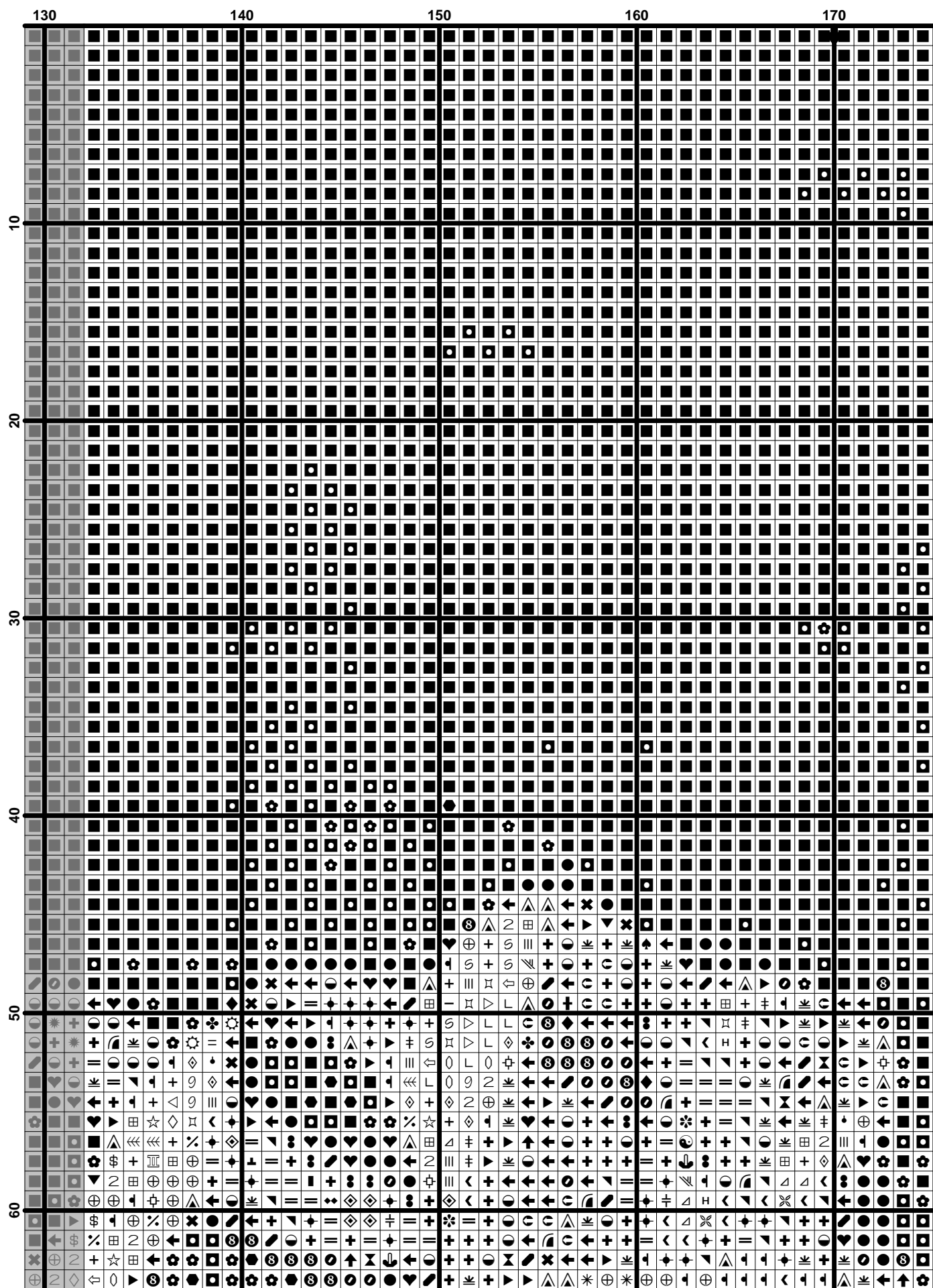
e-mail: info@goldenkite.com

3827	Golden Brown-Pale	3	1	3	1	3	1
3828	Hazelnut Brown	168	66	157	61	147	57
3829	Old Gold-VY DK	123	48	115	45	107	42
3830	Terra Cotta-MD	39	15	37	14	34	14
3857	Rosewood-DK	366	144	342	134	321	126
3859	Rosewood-LT	57	22	53	20	50	19
3860	Cocoa	97	38	91	35	85	33
3861	Cocoa-LT	279	109	260	102	244	96
3862	Mocha Beige-DK	55	21	51	20	48	19
3863	Mocha Beige-MD	24	9	23	8	21	8
3864	Mocha Beige-LT	86	33	80	31	75	29
3865	Winter White	529	208	494	194	463	182



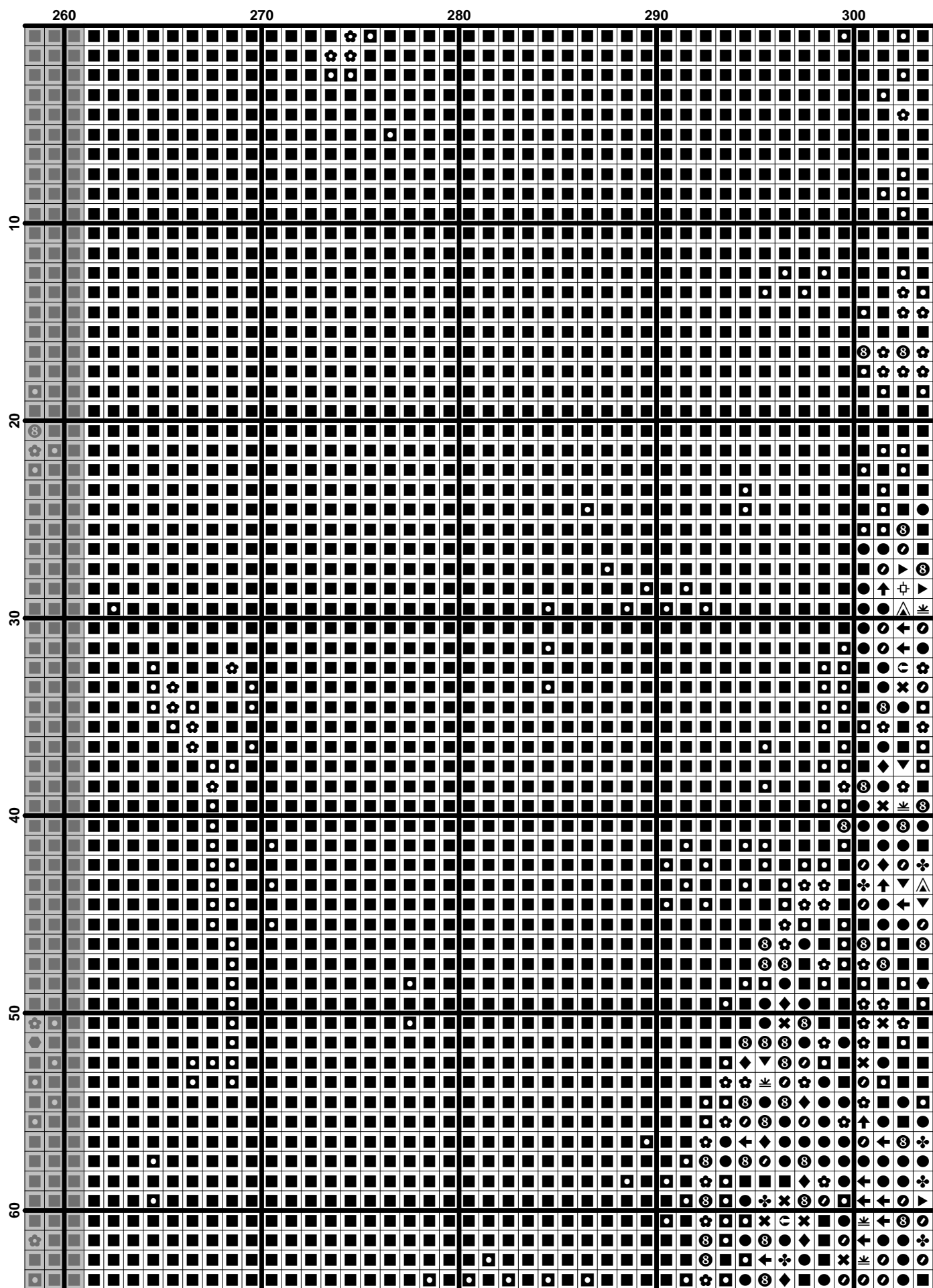


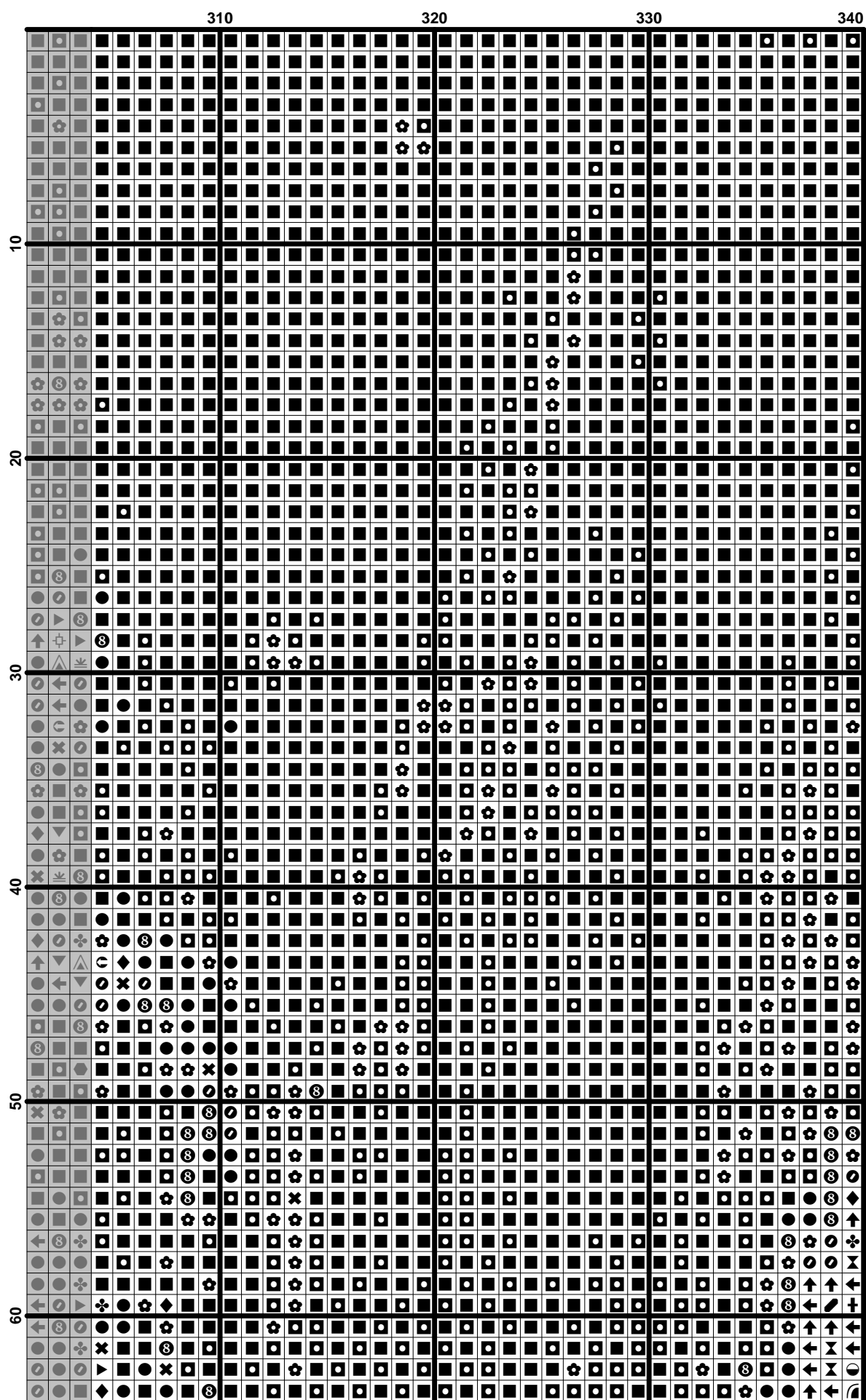


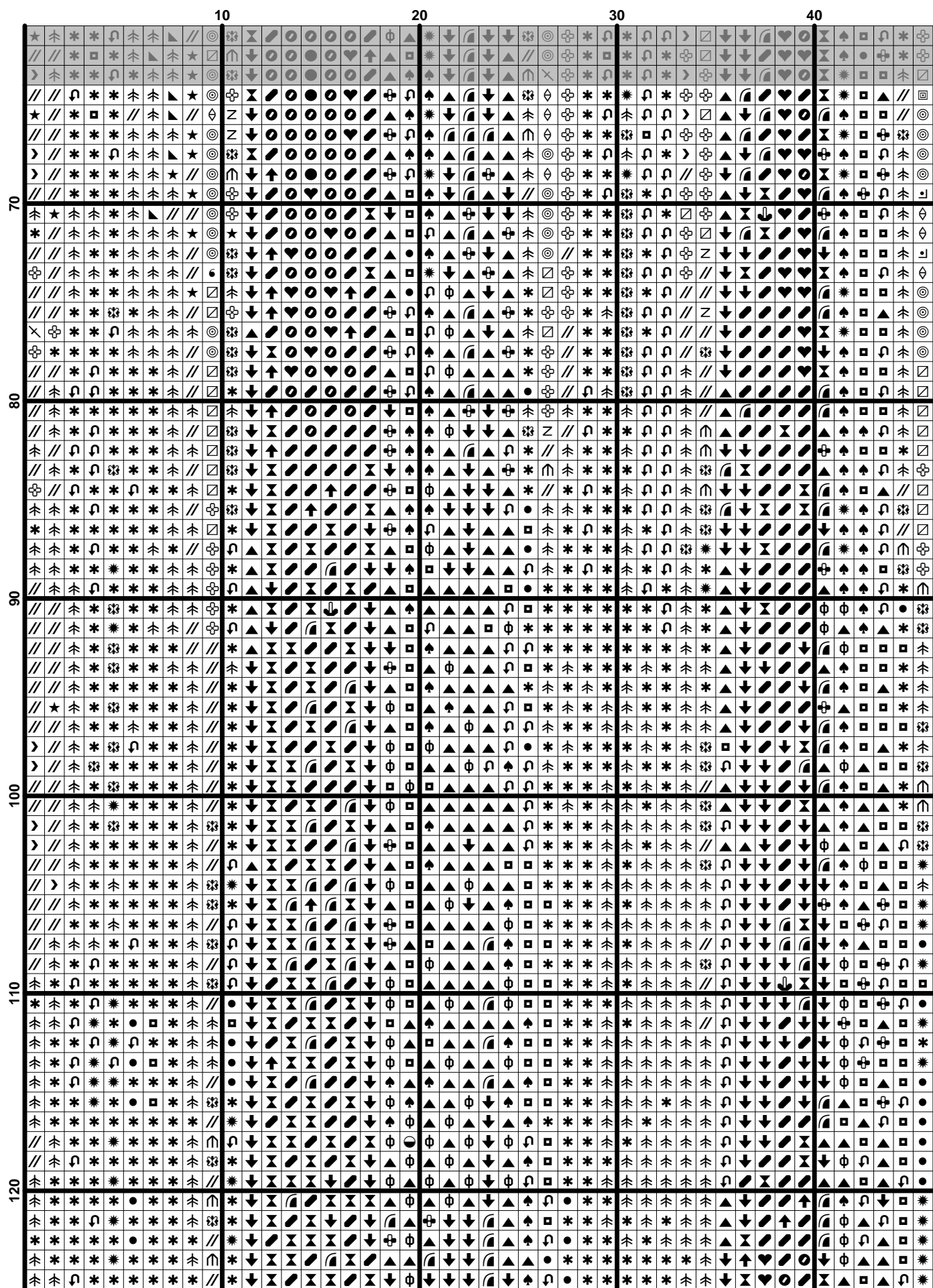


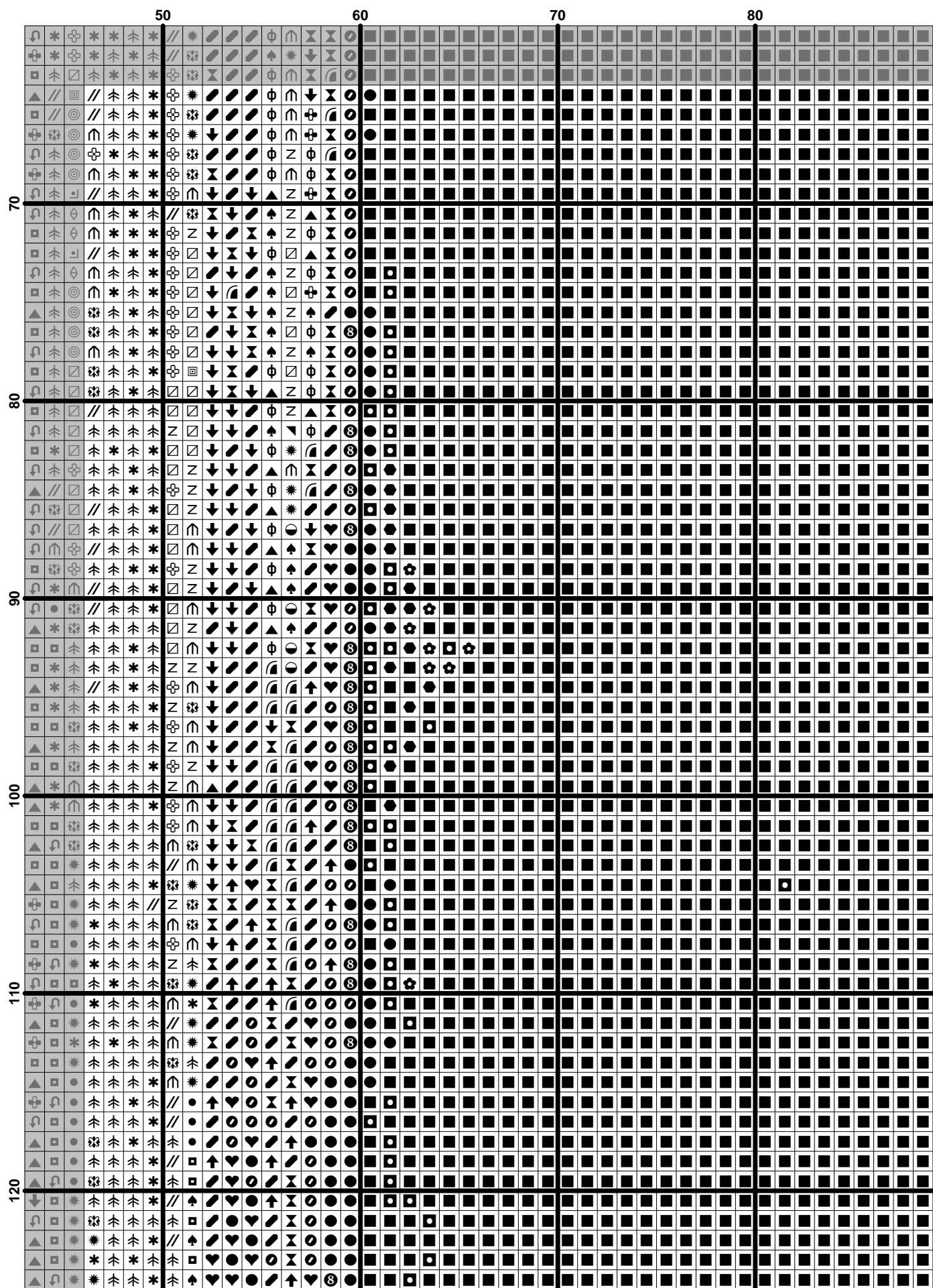


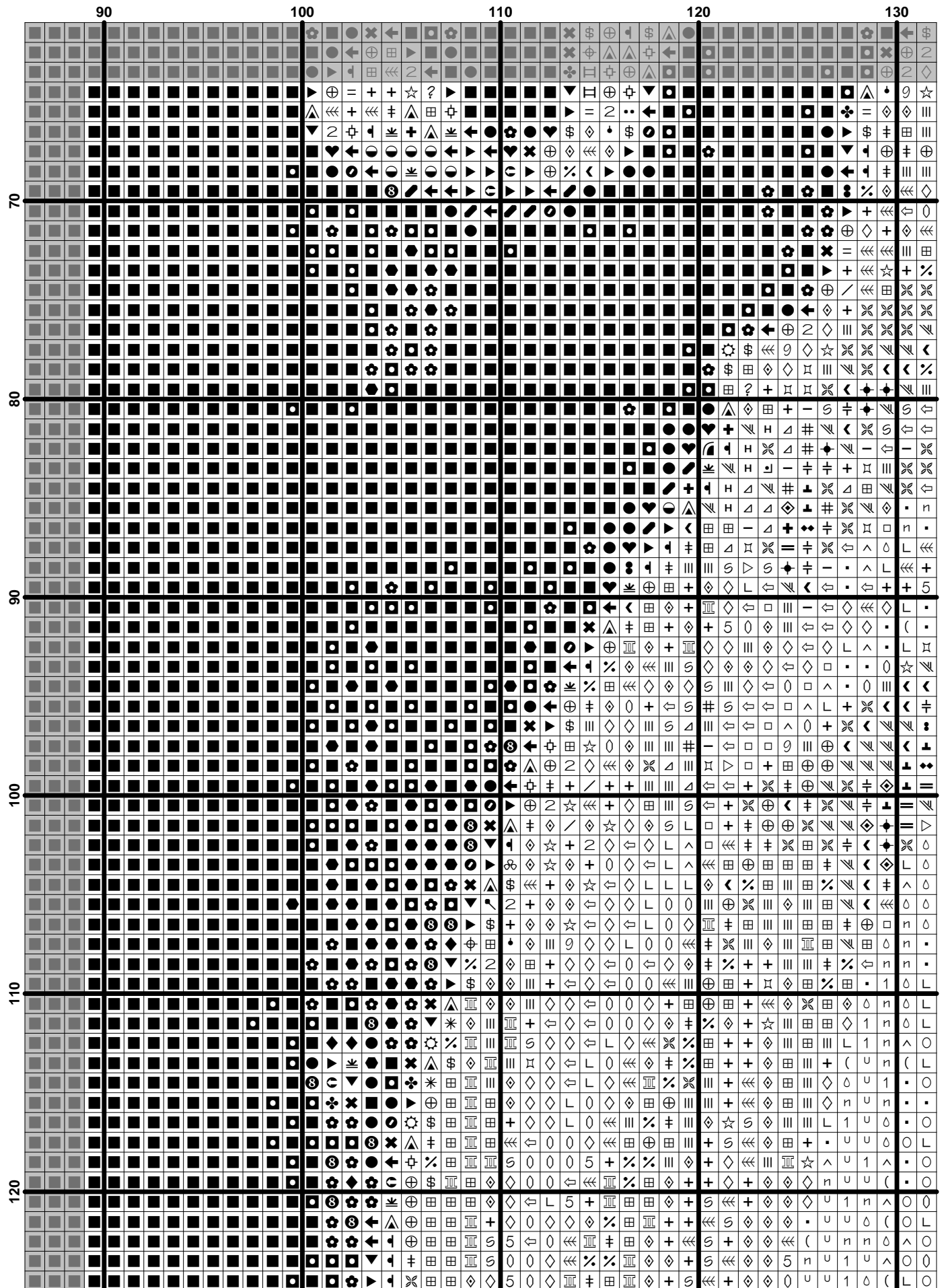






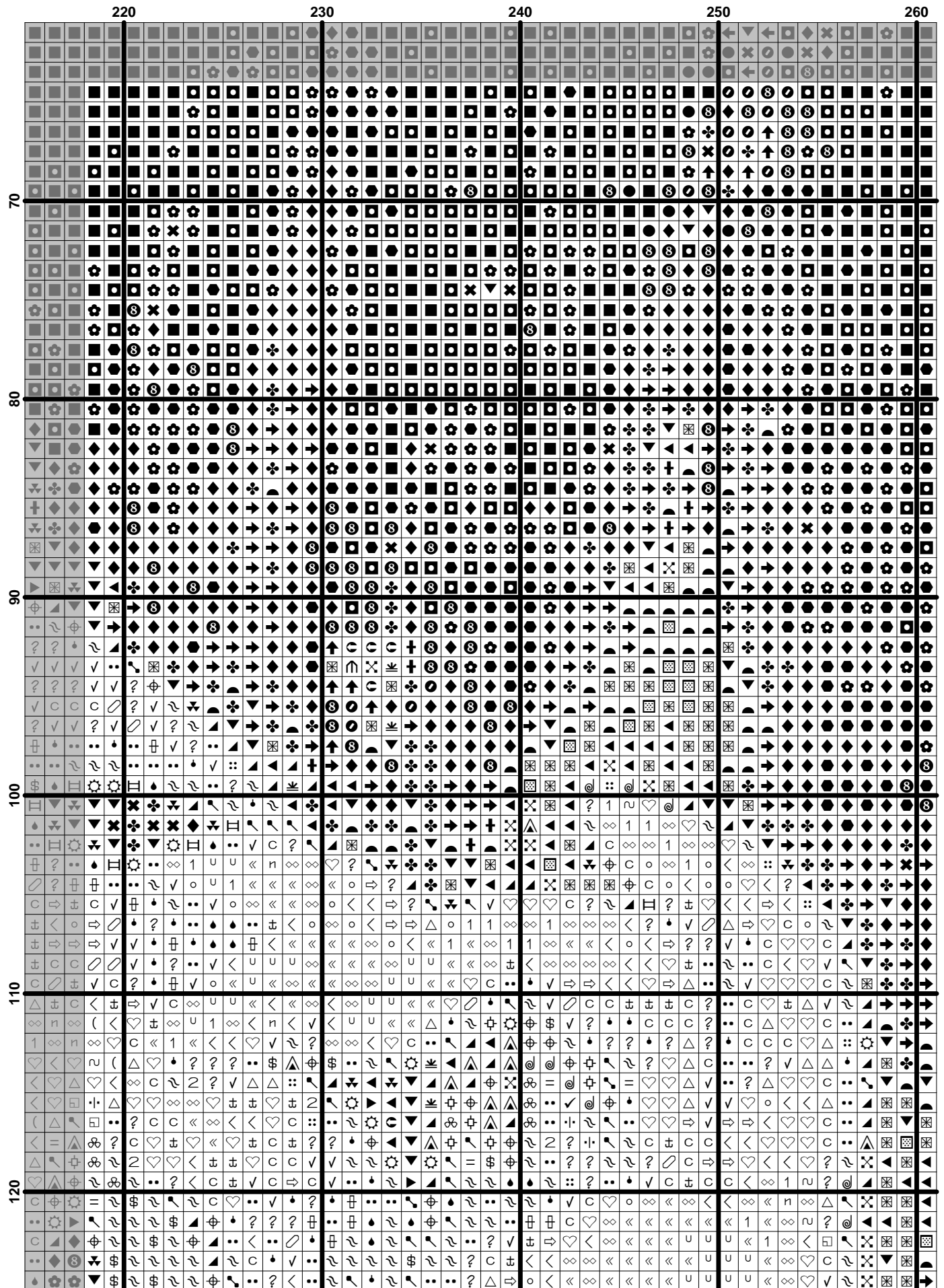


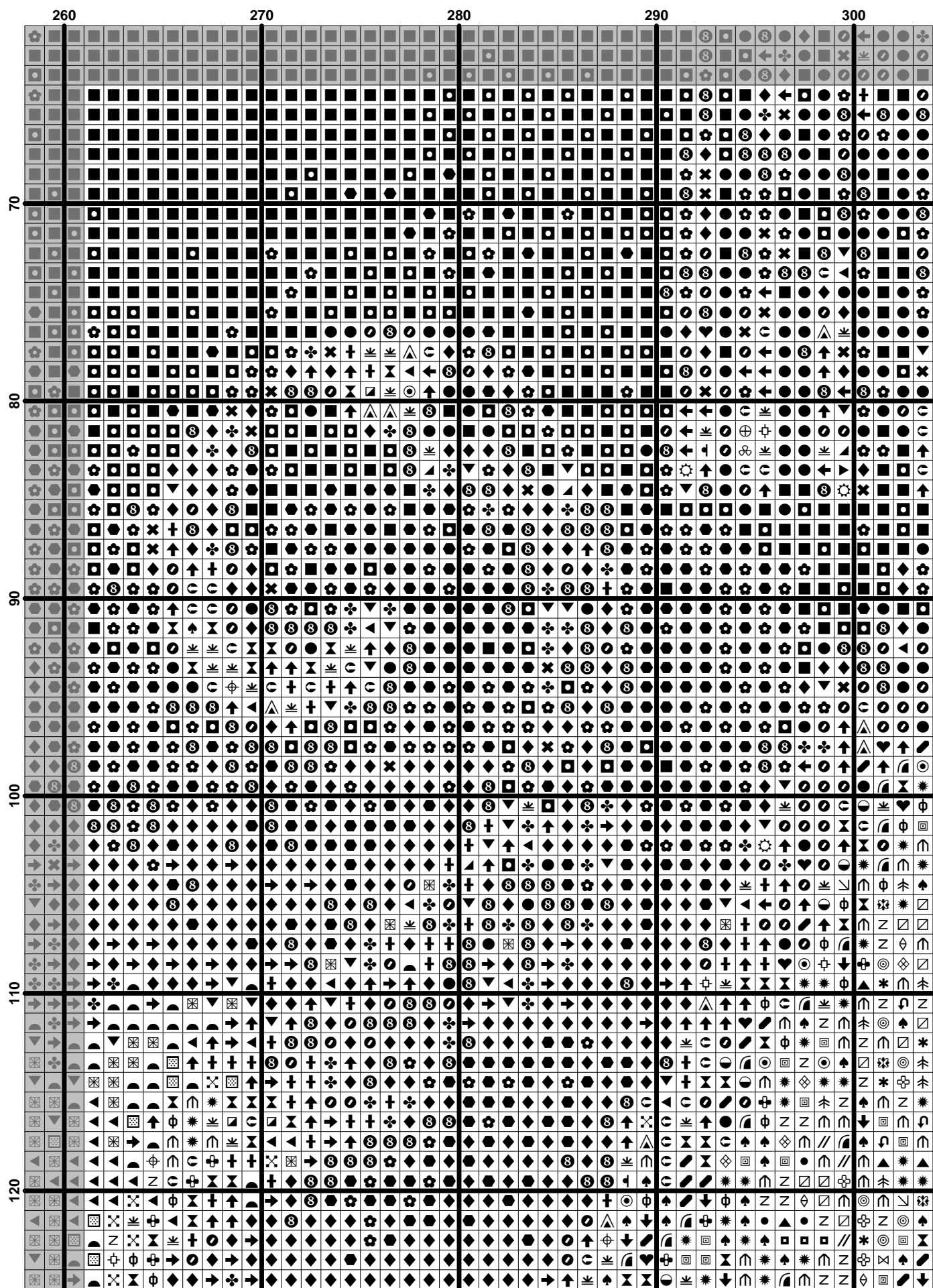


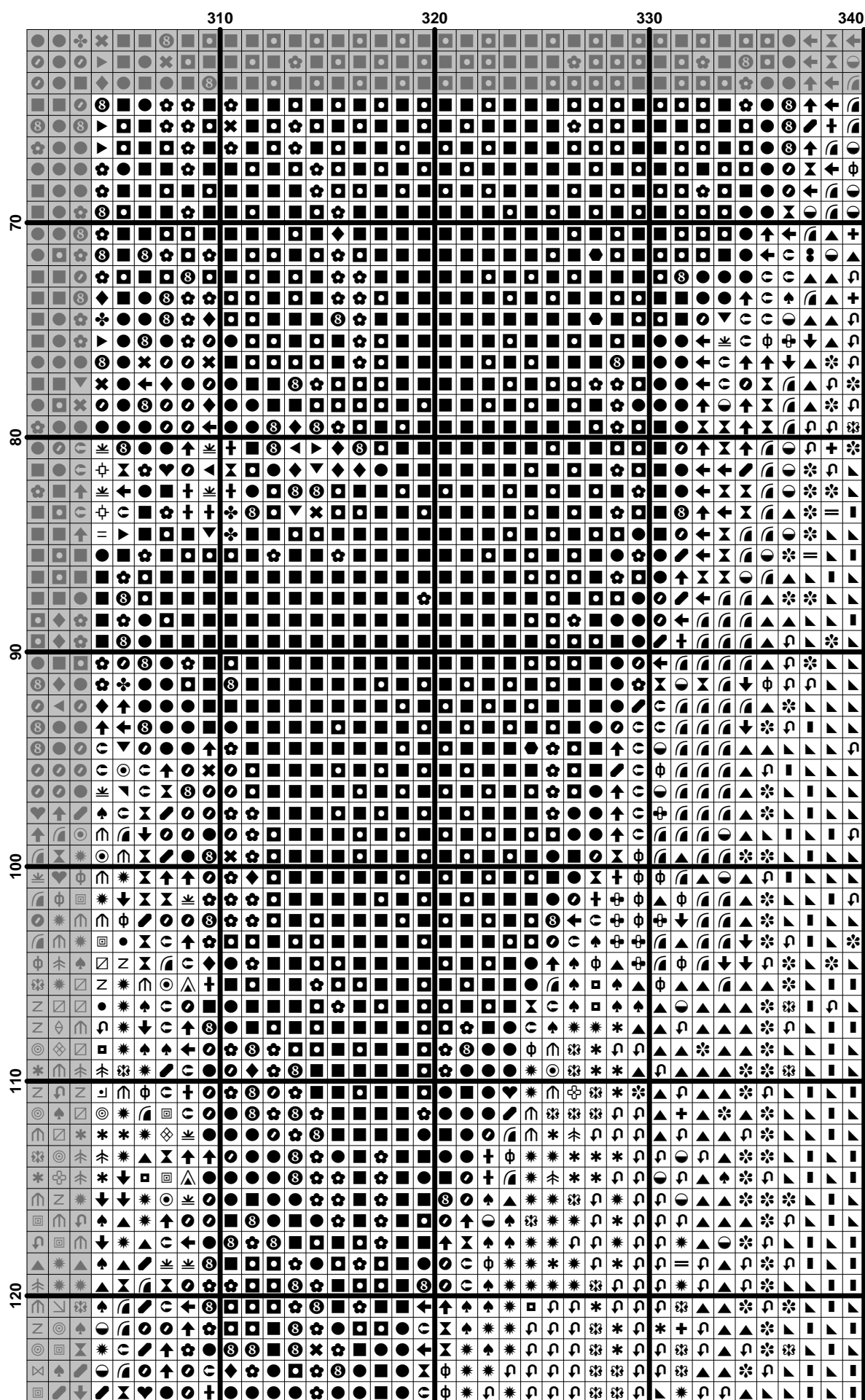


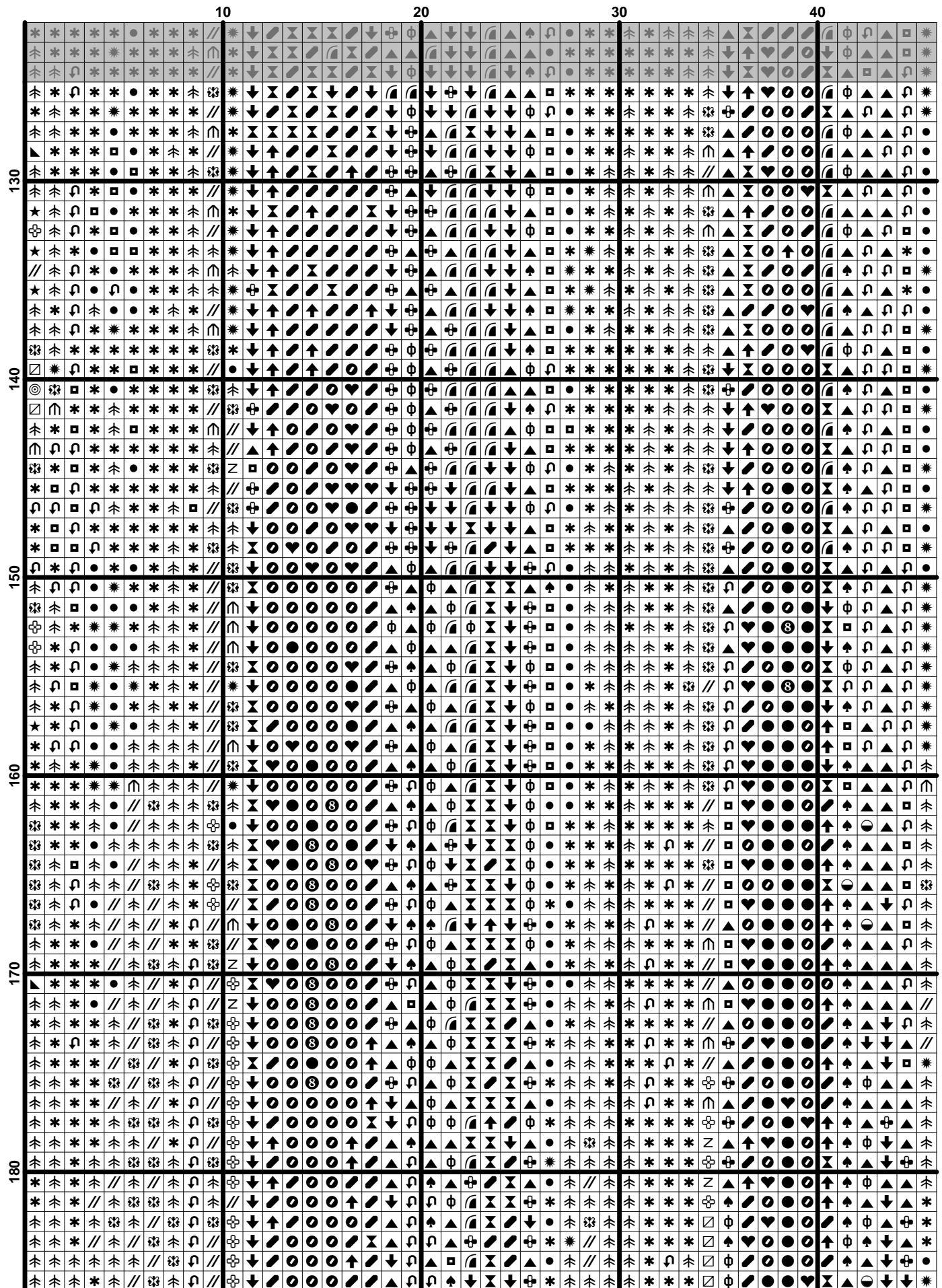
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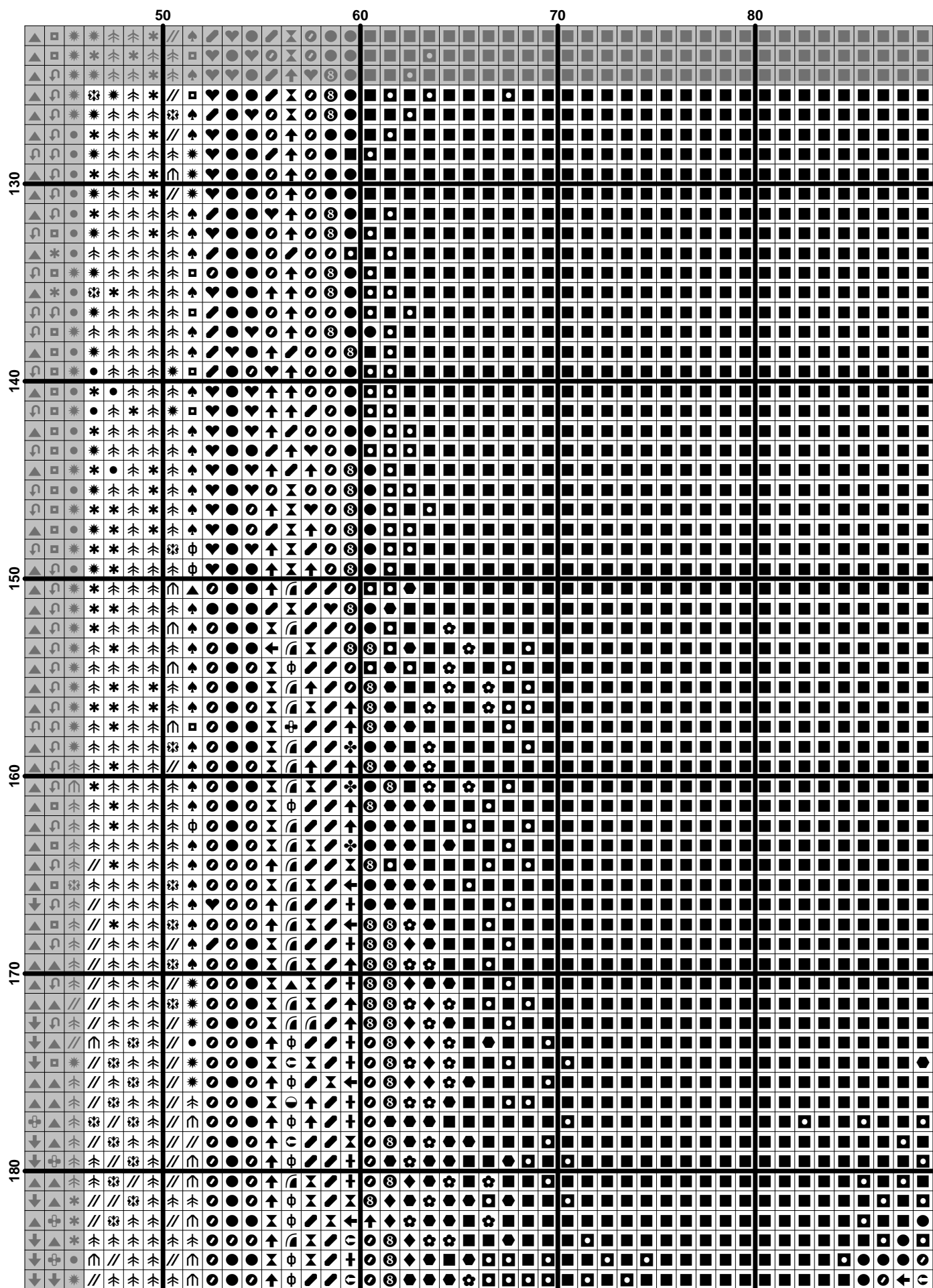
$$(21) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (22)$$

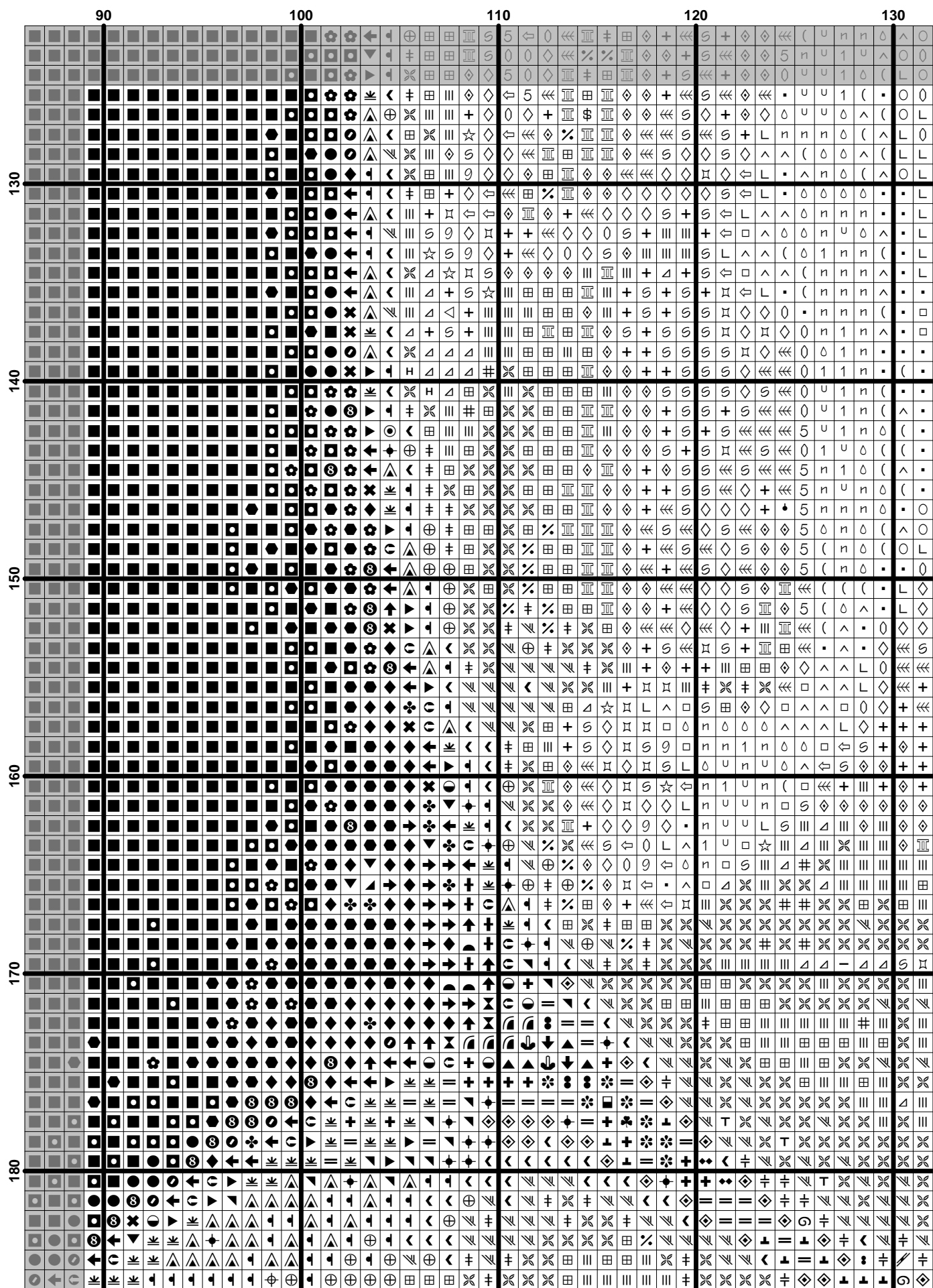






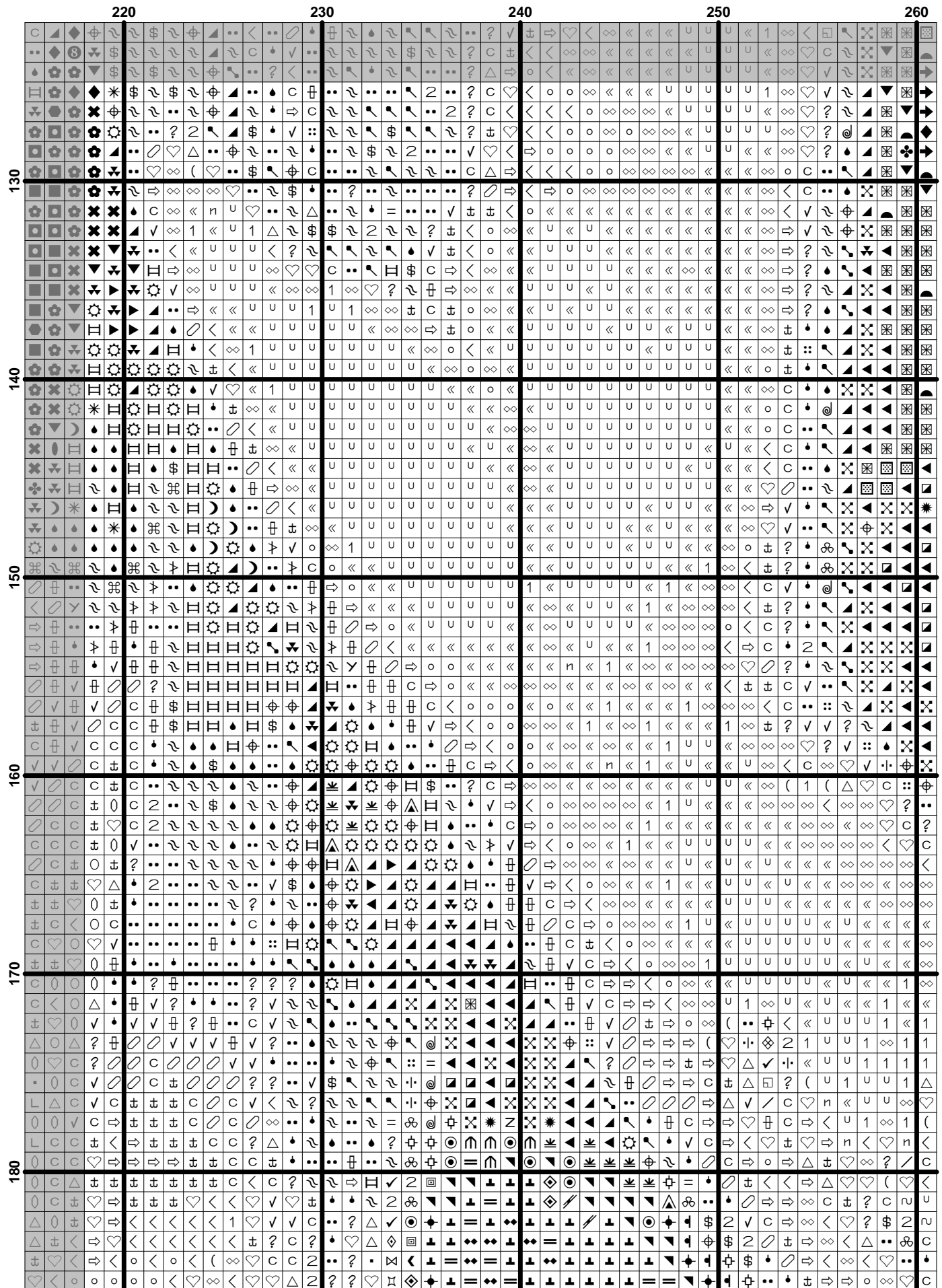


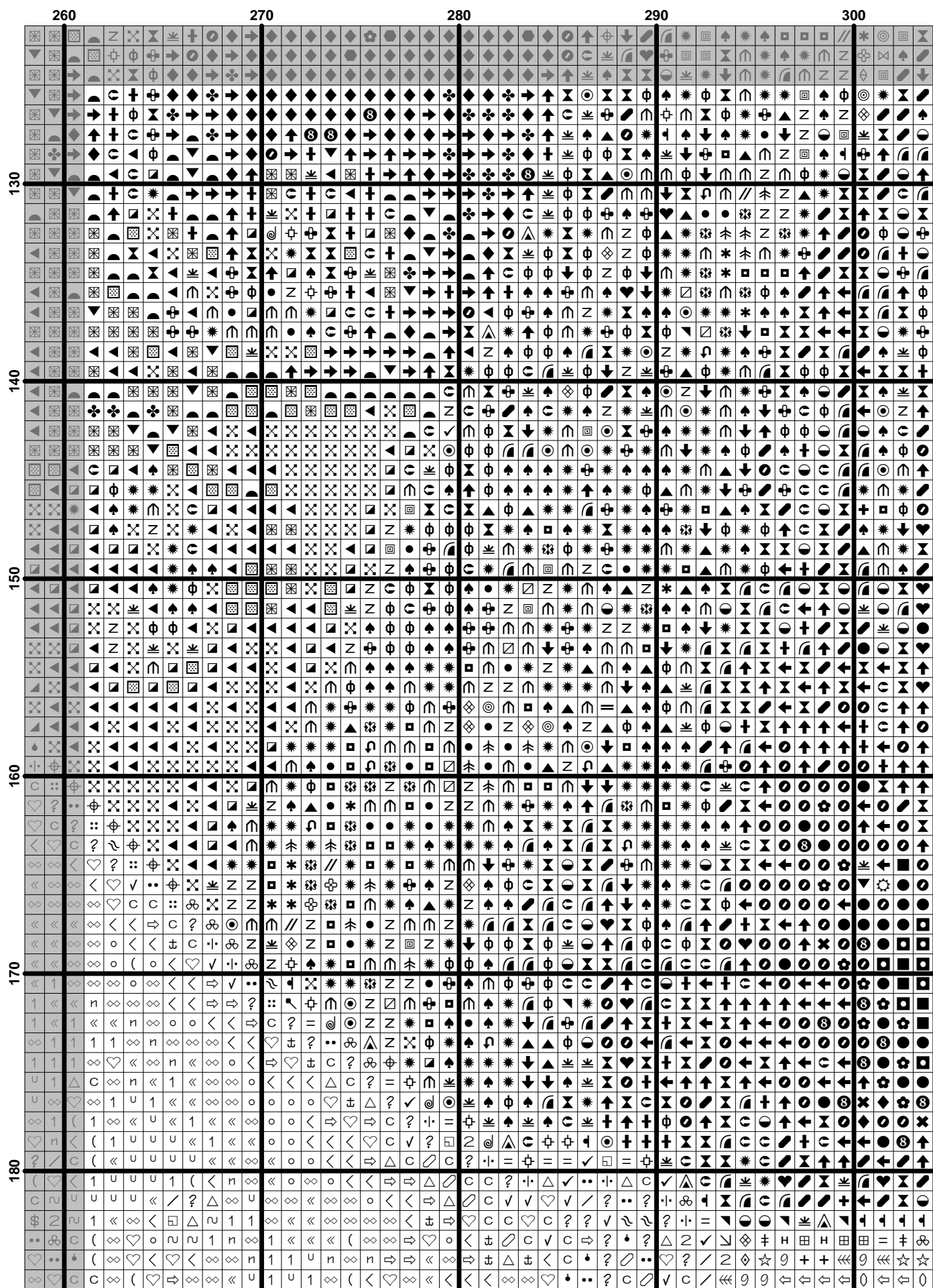


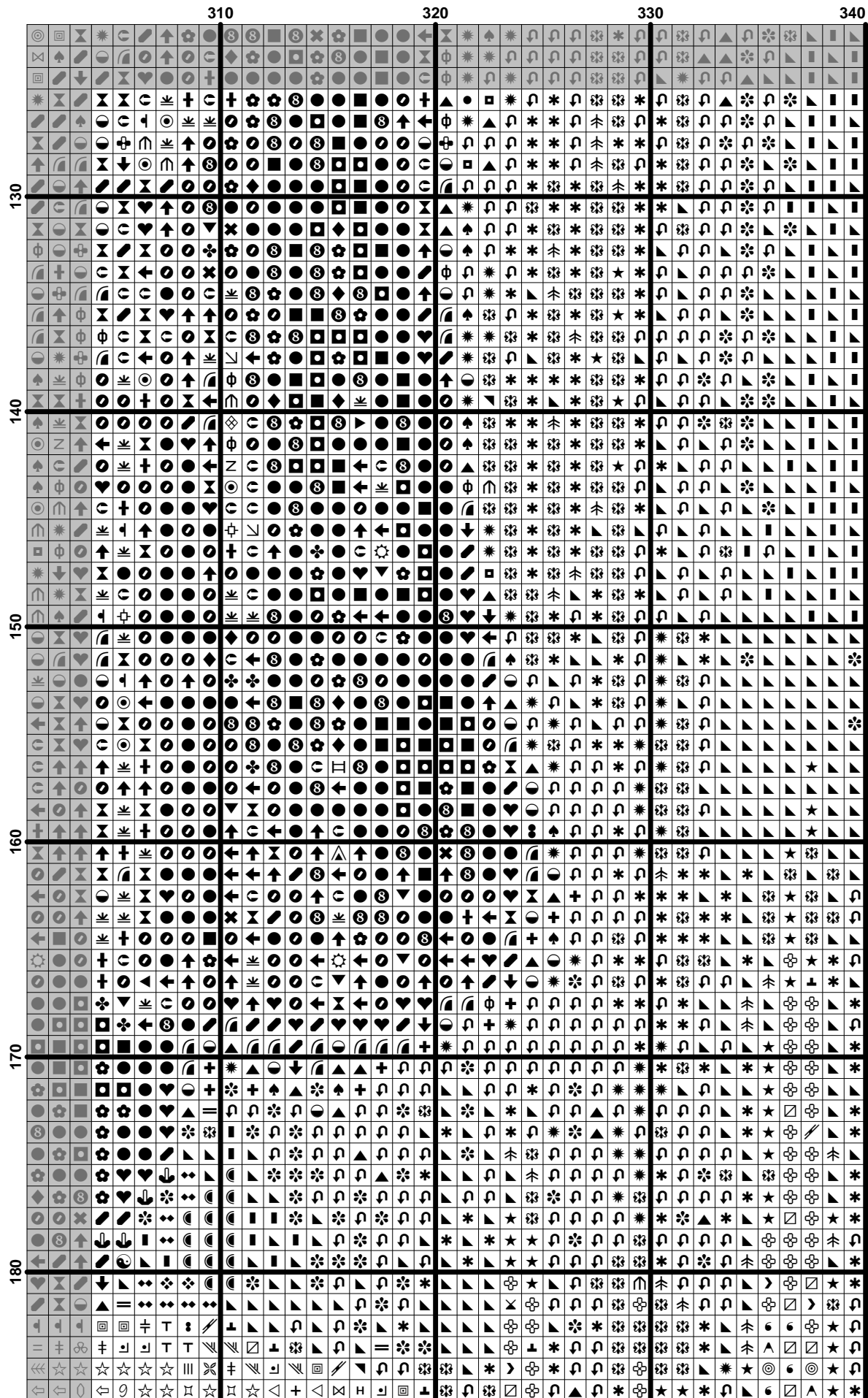


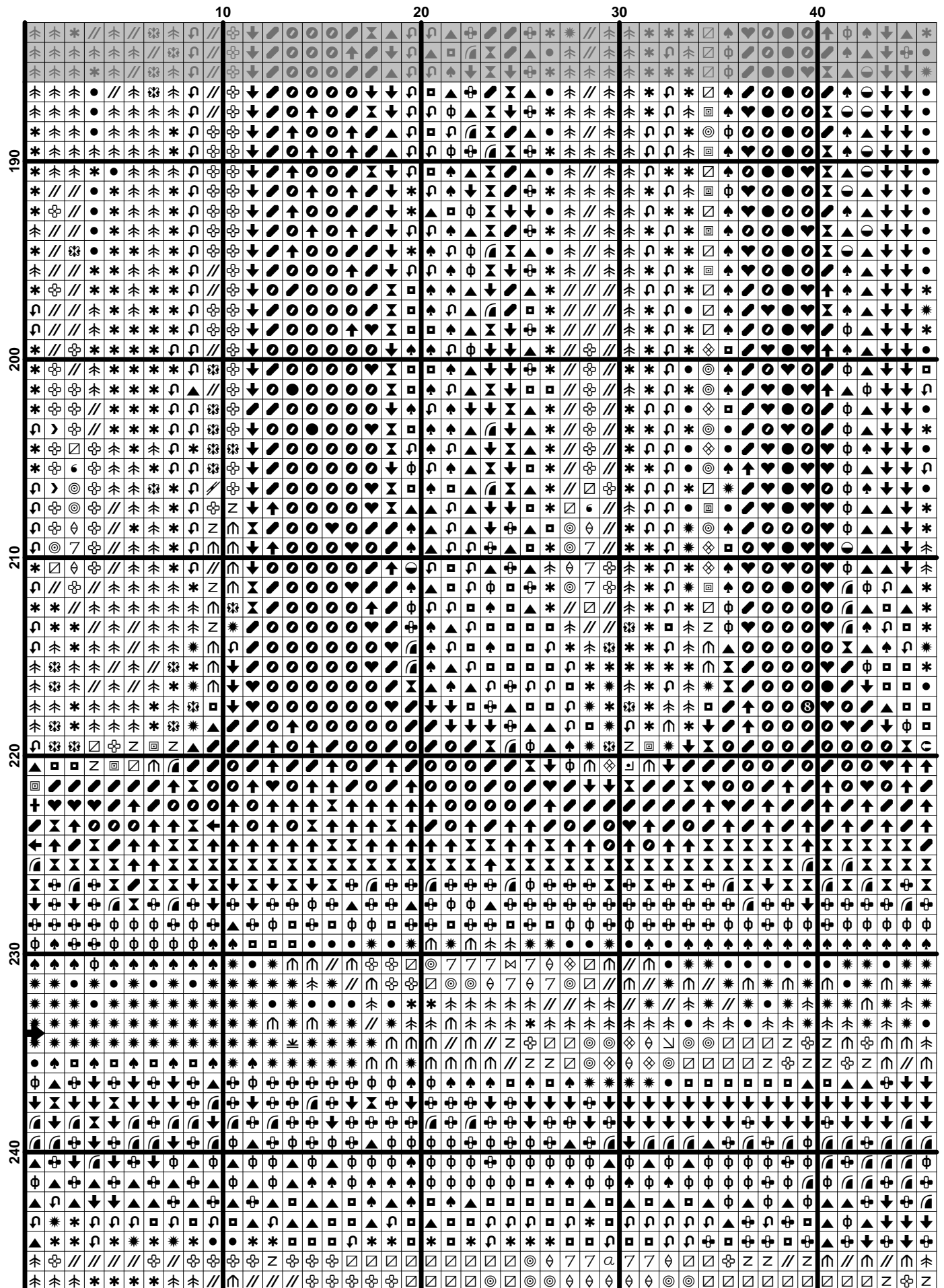
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160	△	△	△	△	△
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190	△	△	△	△	△
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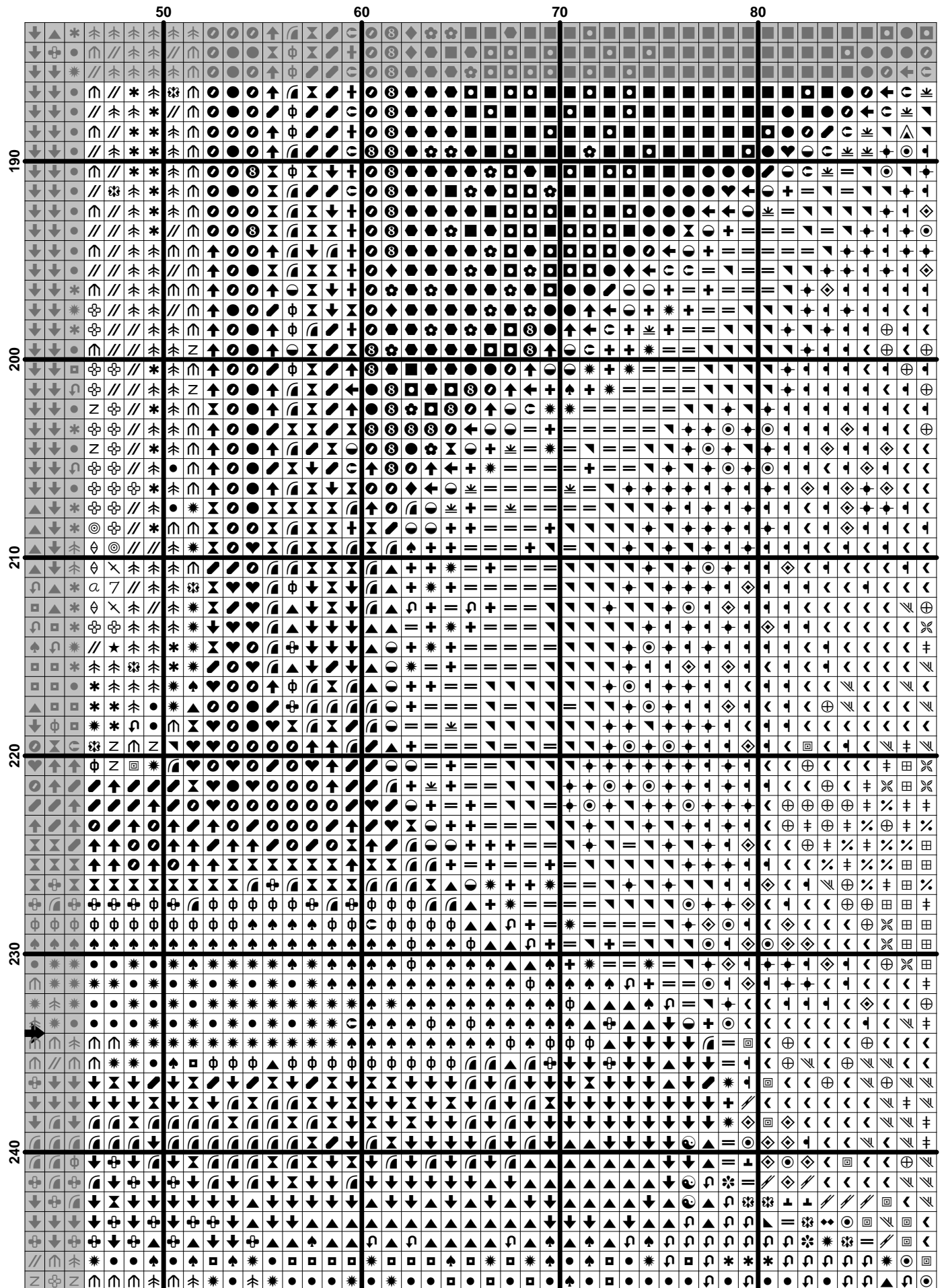
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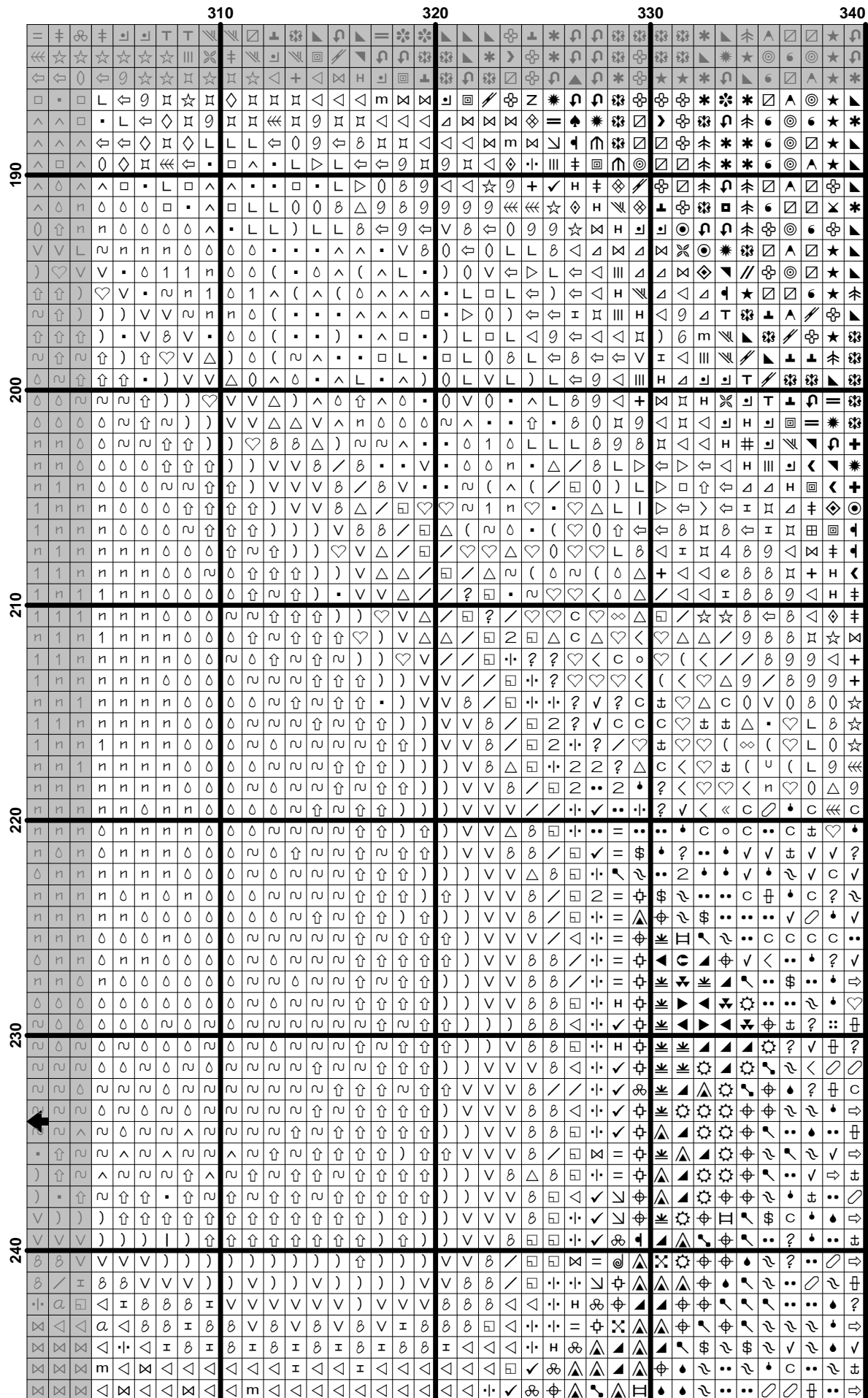
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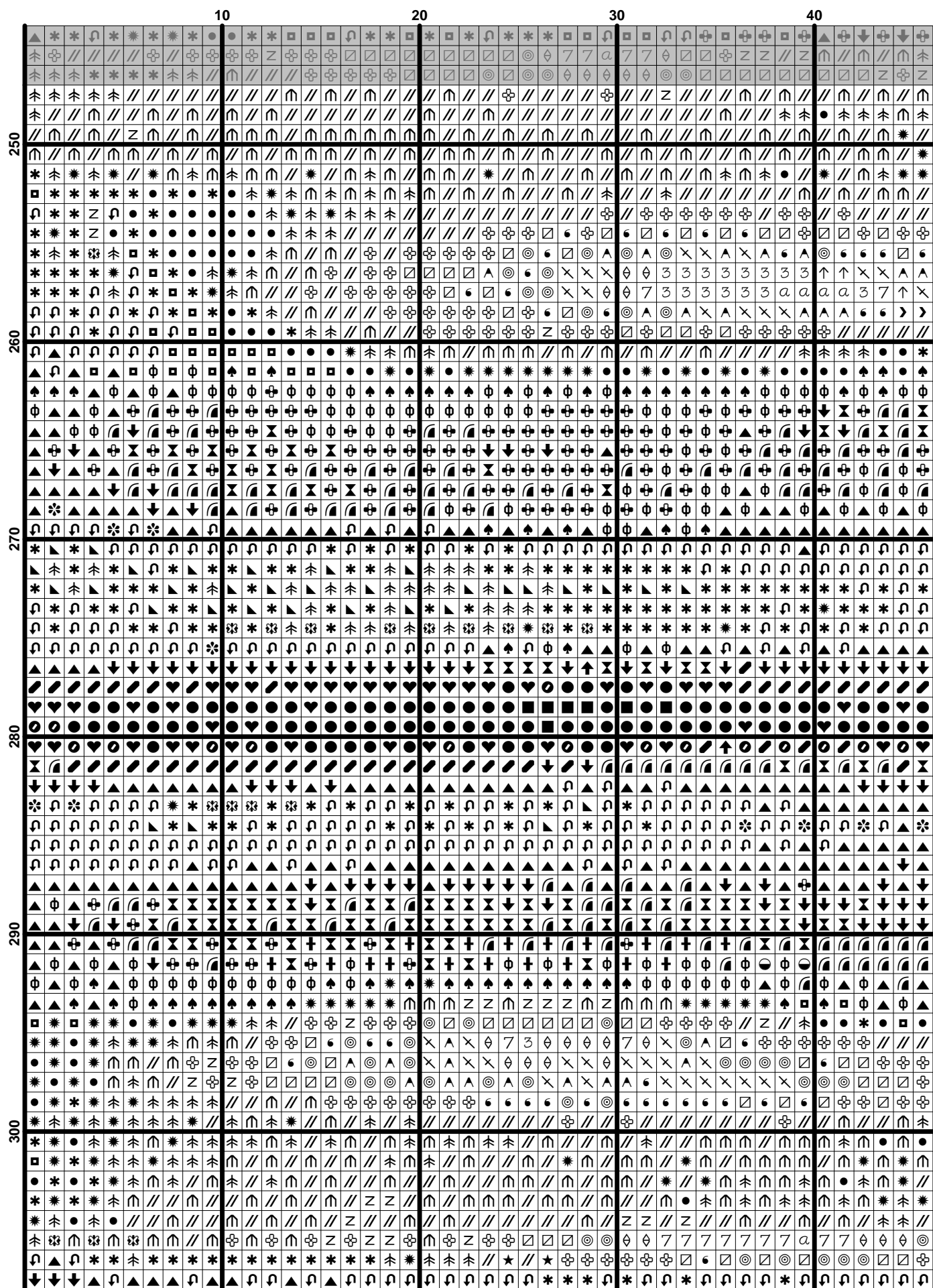
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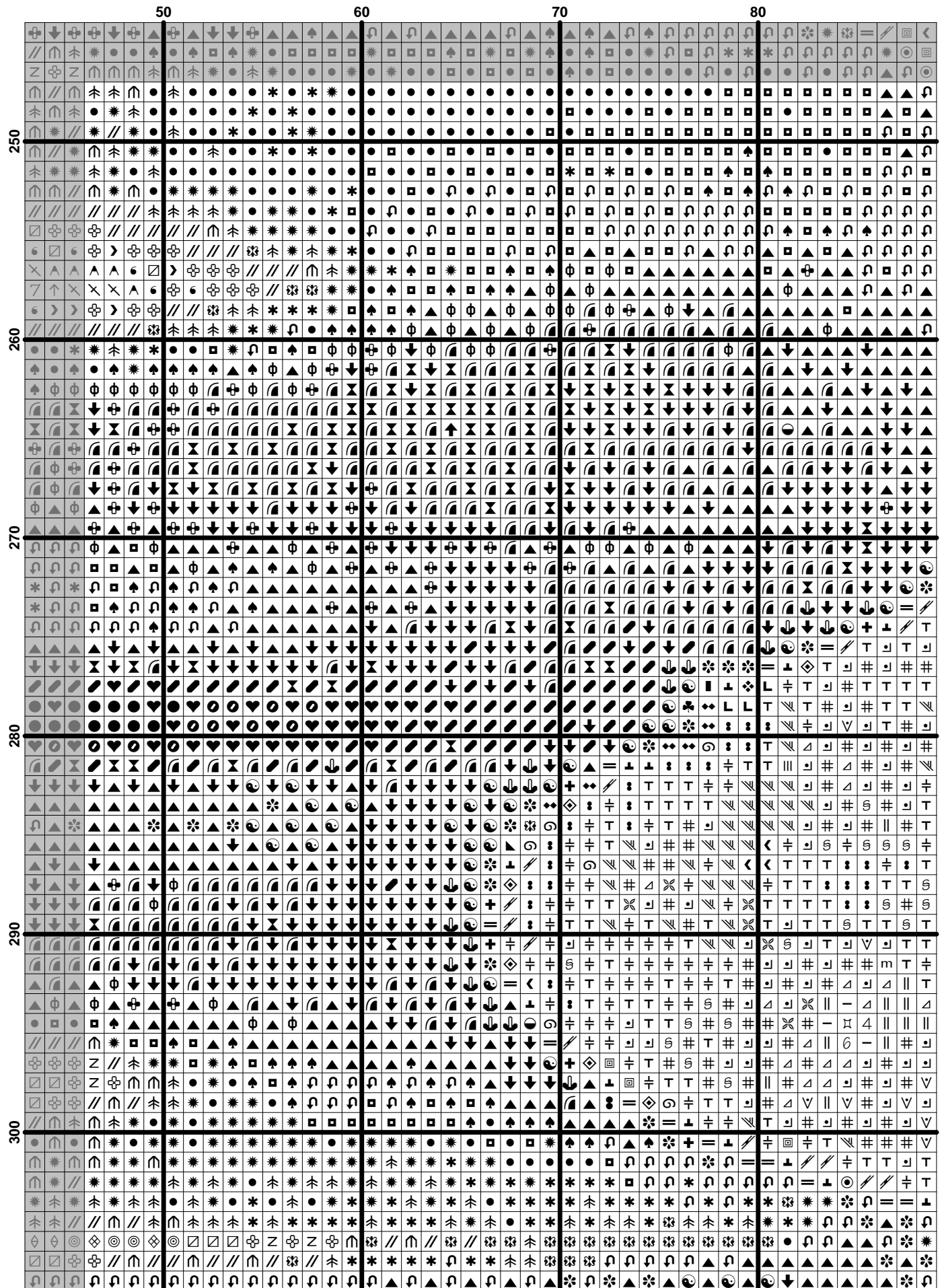
$$(37) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

[illegible]

	260	270	280	290	300
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$$(45) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

	220										230										240										250										260									
250	Λ	π	Λ	▽	□	□	L	9	•	u	u	u	δ	Λ	Λ	□	Λ	Λ	n	δ	δ	Λ	δ	•	□	□	•	Λ	δ	n	n	n	1	u	u	u	u	u	u	u	Λ	0	⇄	0	◇	◇	•	n	u	
	δ	δ	▽	L	Λ	Λ	9	0	n	u	u	n	Λ	•	Λ	□	Λ	δ	n	δ	δ	Λ	Λ	•	□	•	□	(Λ	δ	δ	n	n	1	u	u	u	u	u	u	•	0	0	0	⇄	0	•	n	1	
	Λ	δ	↑	▽	Λ	•	0	δ	u	u	u	δ	•	⇄	L	▽	Λ	δ	δ	δ	Λ	Λ	•	□	•	□	•	Λ	(δ	1	u	u	u	u	u	u	n	0	L	L	0	0	L	Λ	n	u			
	Λ	δ	↑	↑	Λ	•	Λ	u	u	n	Λ	L	◇	⇄	▽	Λ	n	δ	δ	δ	Λ	Λ	•	□	•	□	L	□	•	Λ	(δ	1	u	u	u	u	u	1	L	0	♡	L	0	L	(n	n		
	□	L	⇄	↑	0	δ	u	u	n	Λ	□	•	Λ	Λ	□	L	0	•	n	Λ	Λ	Λ	•	Λ	•	□	L	□	•	□	(δ	1	u	u	u	u	u	•	0	•	L	L	L	Λ	1	δ			
	L	↑	⇄	⇄	⇄	0	n	u	1	δ	□	•	□	•	δ	Λ	Λ	0	◇	L	•	Λ	Λ	Λ	Λ	□	□	•	□	L	•	Λ	δ	1	u	u	u	u	u	(L	•	L	0	□	δ	n	δ		
	⇄	↑	⇄	⇄	⇄	⇄	u	n	δ	□	L	□	Λ	Λ	Λ	Λ	Λ	Λ	•	◇	0	L	0	Λ	Λ	•	Λ	•	L	•	•	δ	u	u	u	u	u	u	n	•	L	L	•	Λ	δ	δ	L			
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	⇄	↑	▽	▽	δ	u	n	δ	□	L	L	□	Λ	δ	δ	δ	δ	δ	δ	(δ	n	δ	Λ	δ	n	O	L	(δ	Λ	(Λ	δ	1	u	u	u	u	u	u	L	L	⇄	0	L	δ	Λ	⇄	◇
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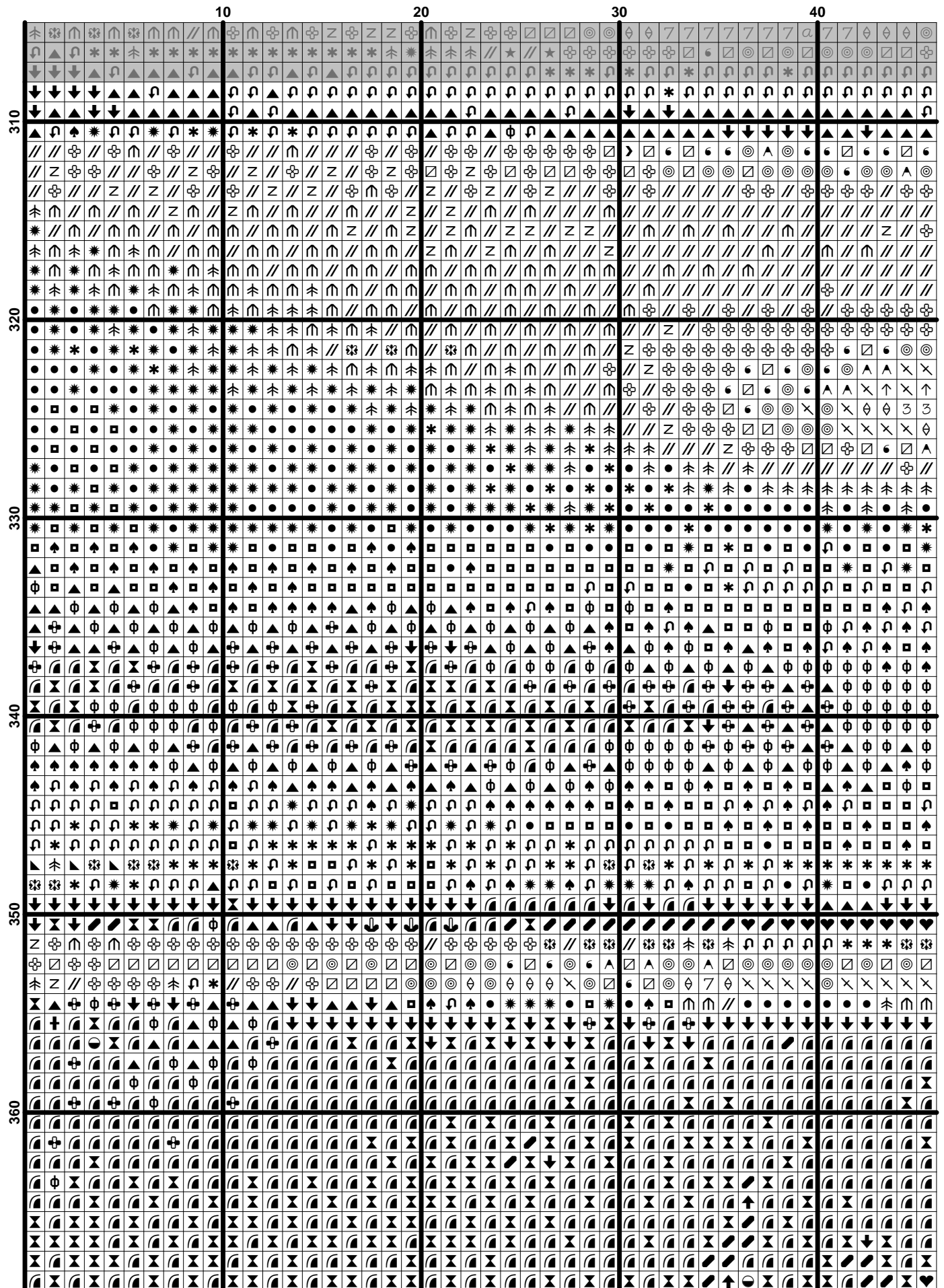
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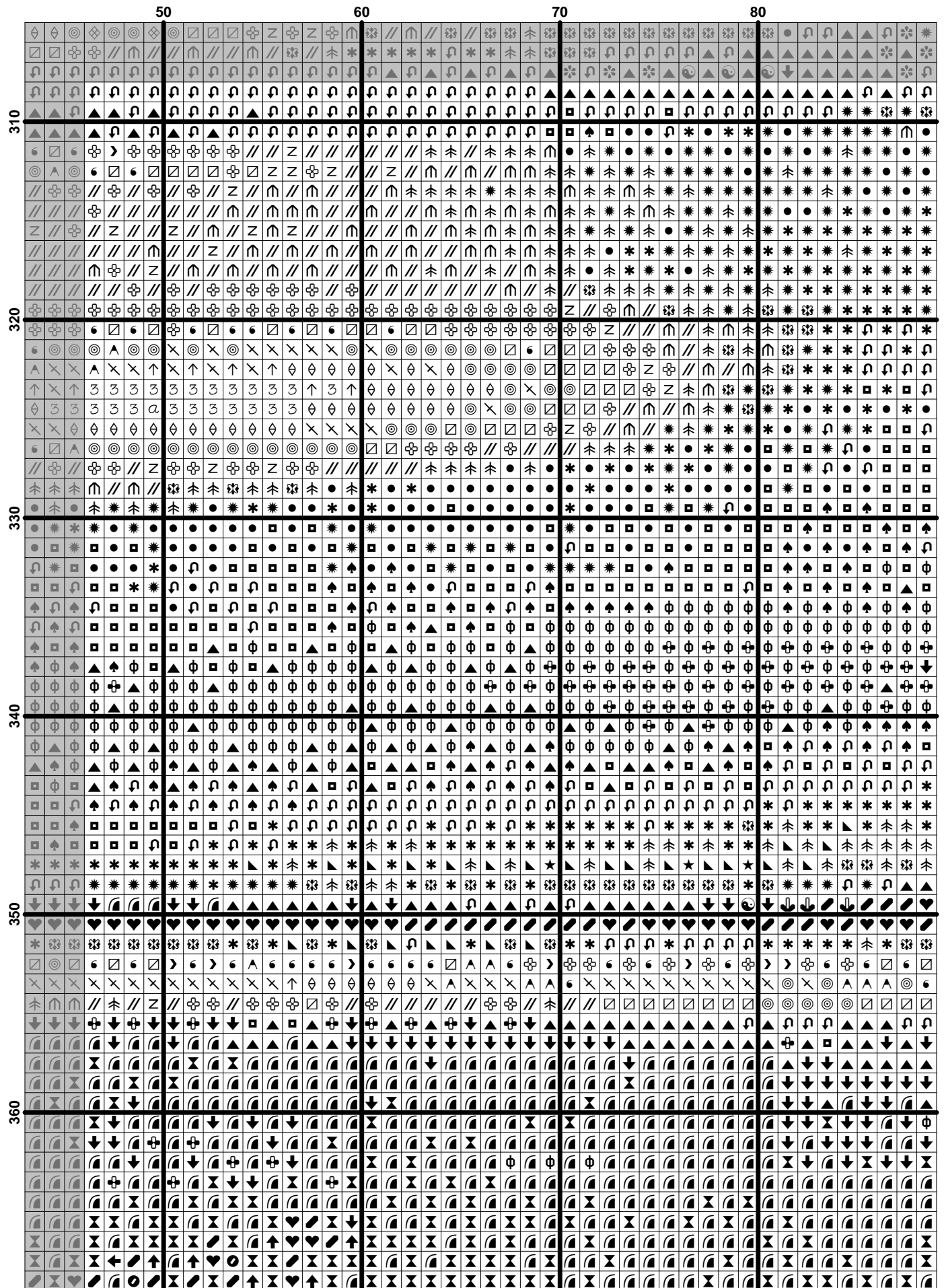
280	Λ	π	Λ	▽	□	□	L	9	•	u	u	u	δ	Λ	Λ	□	Λ	Λ	n	δ	δ	Λ	δ	•	□	□	•	Λ	δ	n	n	n	1	u	u	u	u	u	u	u	Λ	0	⇄	0	◇	◇	•	n	u	
	δ	δ	▽	L	Λ	Λ	9	0	n	u	u	n	Λ	•	Λ	□	Λ	δ	n	δ	δ	Λ	Λ	•	□	•	□	(Λ	δ	δ	n	n	1	u	u	u	u	u	u	u	•	0	0	0	⇄	0	•	n	1
	Λ	δ	↑	▽	Λ	•	0	δ	u	u	u	δ	•	⇄	L	▽	Λ	δ	δ	δ	Λ	Λ	•	□	•	□	•	Λ	(δ	1	u	u	u	u	u	u	n	0	L	L	0	0	L	Λ	n	u			
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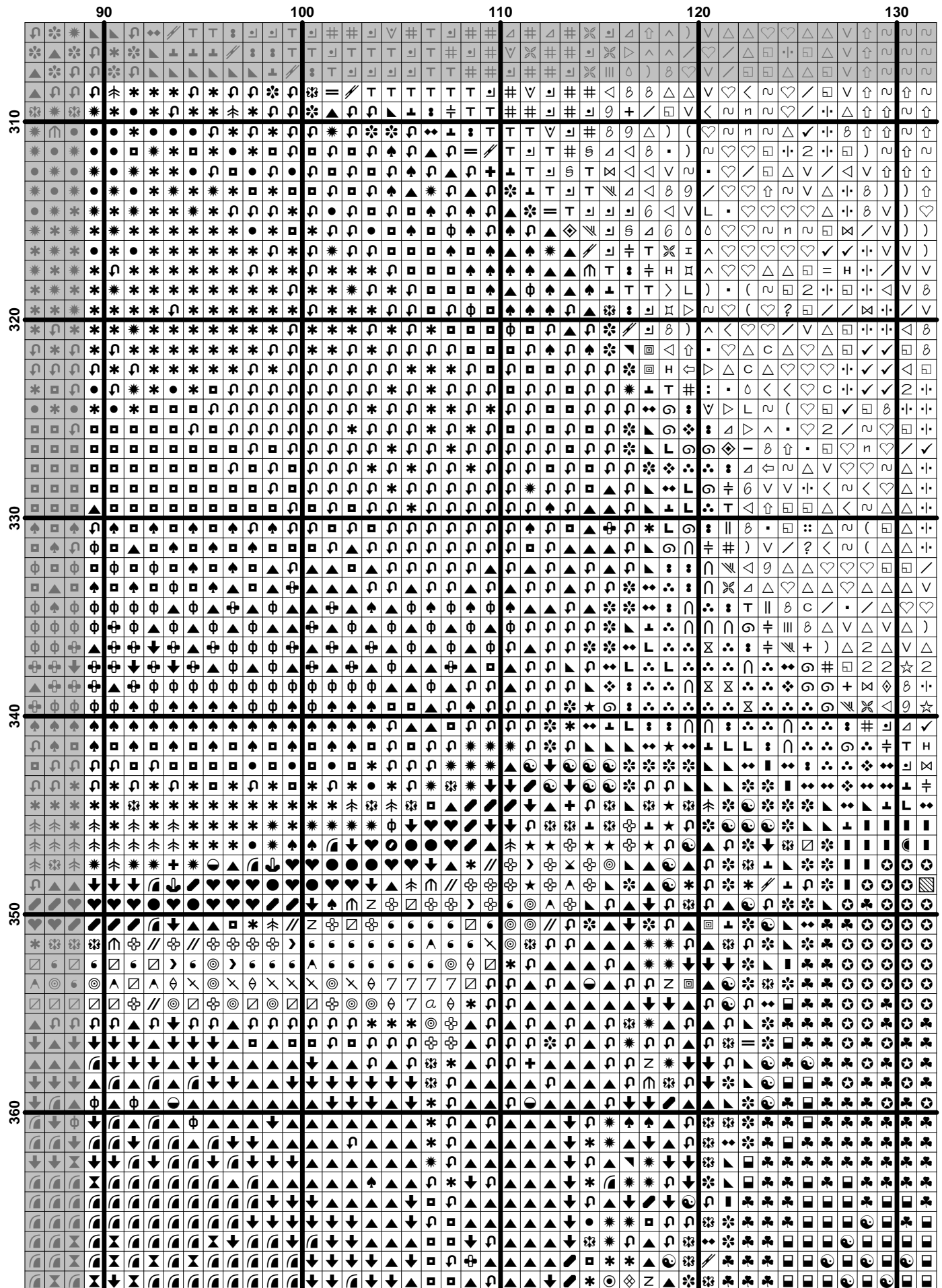
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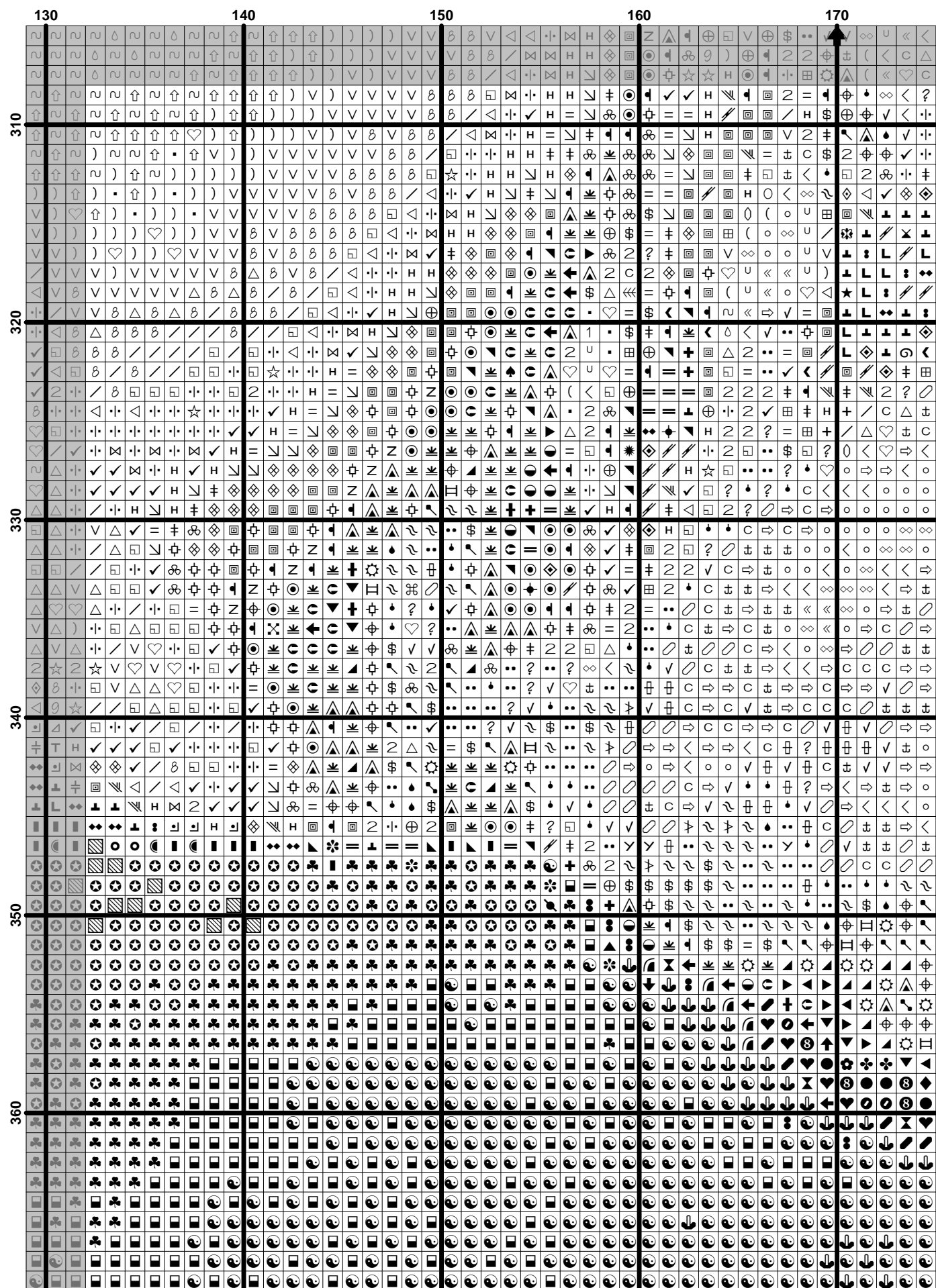
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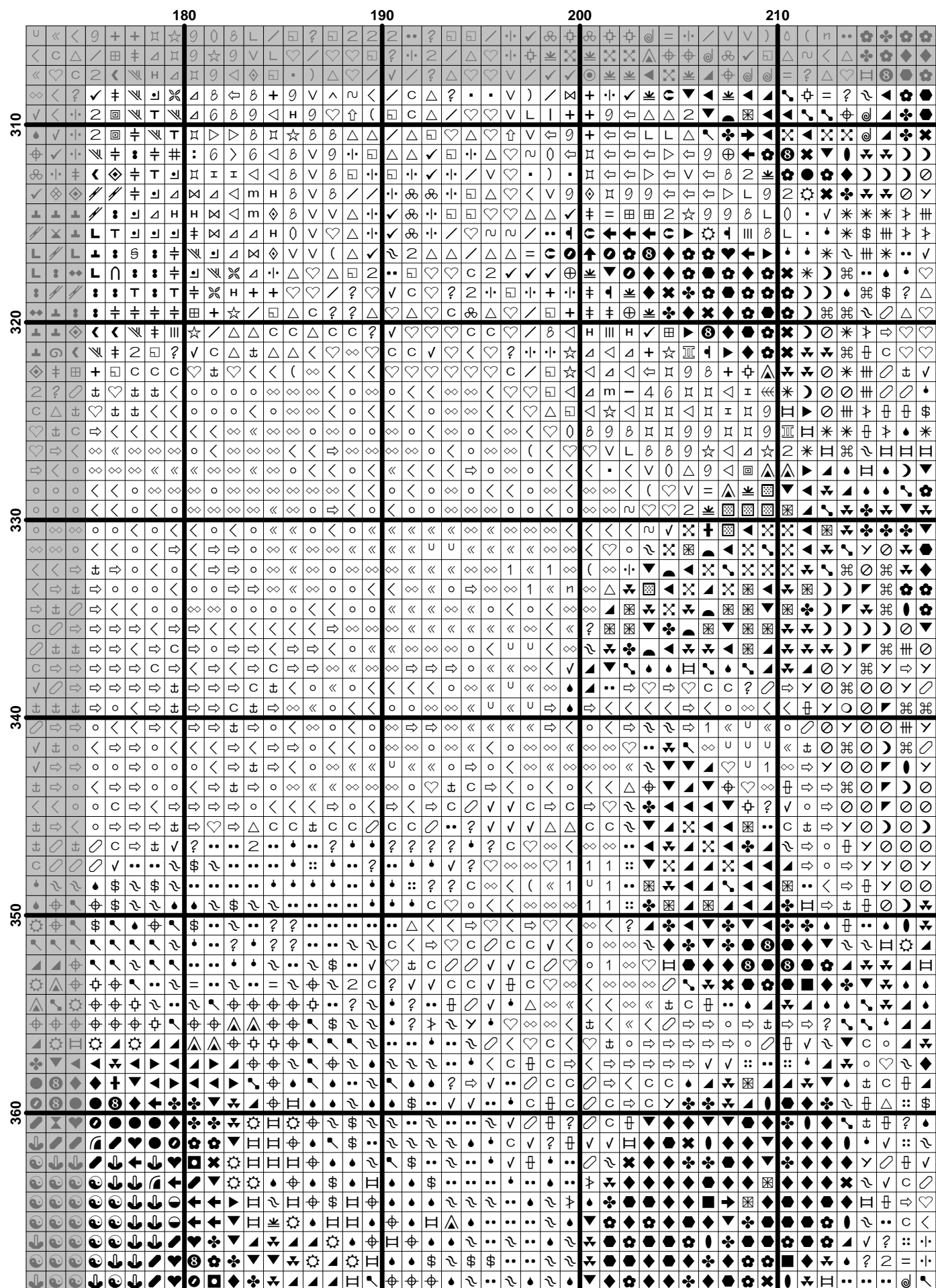
(48)











	220	230	240	250	260
310
320
330
340
350
360

