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## 1427 Still life with Grapes and Wine



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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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## Still life with Grapes and Wine

Stitch Count	
Horizontal:	340
Vertical:	297

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	54	21.21	54	21.23	48	18.56	48	18.875	42	16.5
Including Margins:	78	31	70	28	70	28	64	25	64	25	58	23
	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	75	29.69	72	28.3	63	24.74	36	14.15	31	12.37
Including Margins:	102	40	91	36	88	35	79	31	52	21	47	19
	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	30	11.87	33	13.06	29	11.42	32	12.57	28	10.99
Including Margins:	50	20	46	18	49	20	45	18	48	19	44	17
	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	27	10.6	28	11.32	25	9.89	27	10.61	23	9.27
Including Margins:	47	19	43	17	44	18	41	16	43	17	39	16

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

Symbol	DMC	Name
	301	Mahogany-MD
	307	Lemon
	310	Black
	370	Mustard-MD
	371	Mustard
	420	Hazelnut Brown-DK
	422	Hazelnut Brown-LT
	433	Brown-MD
	434	Brown-LT
	435	Brown-VY LT
	436	Tan
	437	Tan-LT
	444	Lemon-DK
	610	Drab Brown-DK
	611	Drab Brown
	632	Desert Sand-UL VY DK
	640	Beige Gray-VY DK
	645	Beaver Gray-VY DK
	676	Old Gold-LT
	680	Old Gold-DK
	725	Topaz
	726	Topaz-LT
	729	Old Gold-MD
	730	Olive Green-VY DK
	732	Olive Green
	733	Olive Green-MD
	734	Olive Green-LT
	739	Tan-UL VY LT
	742	Tangerine-LT
	743	Yellow-MD
	744	Yellow-Pale
	745	Yellow-LT Pale
	746	Off White
	754	Peach-LT
	780	Topaz-UL VY DK
	782	Topaz-DK
	783	Topaz-MD
	801	Coffee Brown-DK
	830	Golden Olive-DK
	831	Golden Olive-MD
	832	Golden Olive
	833	Golden Olive-LT
	834	Golden Olive-VY LT
	838	Beige Brown-VY DK

	839	Beige Brown-DK
	841	Beige Brown-LT
	898	Coffee Brown-VY DK
	934	Black Avocado Green
	935	Avocado Green-DK
	936	Avocado Green-VY DK
	938	Coffee Brown-UL DK
	972	Canary-DK
	973	Canary-BRT
	975	Golden Brown-DK
	976	Golden Brown-MD
	977	Golden Brown-LT
	3011	Khaki Green-DK
	3012	Khaki Green-MD
	3013	Khaki Green-LT
	3021	Brown Gray-VY DK
	3031	Mocha Brown-VY DK
	3032	Mocha Brown-MD
	3045	Yellow Beige-DK
	3046	Yellow Beige-MD
	3051	Green Gray-DK
	3053	Green Gray
	3078	Golden Yellow-VY LT
	3362	Pine Green-DK
	3371	Black Brown
	3772	Desert Sand-VY DK
	3781	Mocha Brown-DK
	3787	Brown Gray-DK
	3790	Beige Gray-UL DK
	3819	Moss Green-LT
	3823	Yellow-UL Pale
	3826	Golden Brown
	3827	Golden Brown-Pale
	3828	Hazelnut Brown
	3829	Old Gold-VY DK
	3852	Straw-VY DK
	3853	Autumn Gold-DK
	3854	Autumn Gold-MD
	3855	Autumn Gold-LT
	3856	Mahogany-UL VY LT
	3860	Cocoa
	3861	Cocoa-LT
	3862	Mocha Beige-DK
	3863	Mocha Beige-MD
	3864	Mocha Beige-LT

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

Symbol	DMC1	Name1	DMC2	Name2
☉	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
*	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
†	839	Beige Brown-DK	844	Beaver Brown-UL DK
•	3855	Autumn Gold-LT	3856	Mahogany-UL VY LT
⚓	611	Drab Brown	3862	Mocha Beige-DK
◊	640	Beige Gray-VY DK	3860	Cocoa
1	746	Off White	3823	Yellow-UL Pale
⚓	420	Hazelnut Brown-DK	632	Desert Sand-UL VY DK
⚓	420	Hazelnut Brown-DK	435	Brown-VY LT
■	610	Drab Brown-DK	632	Desert Sand-UL VY DK
e	452	Shell Gray-MD	648	Beaver Gray-LT
⚓	435	Brown-VY LT	3828	Hazelnut Brown
♥	935	Avocado Green-DK	938	Coffee Brown-UL DK
//	3772	Desert Sand-VY DK	3862	Mocha Beige-DK
⚓	934	Black Avocado Green	935	Avocado Green-DK
=	420	Hazelnut Brown-DK	975	Golden Brown-DK
⚓	612	Drab Brown-LT	3772	Desert Sand-VY DK
⊠	372	Mustard-LT	407	Desert Sand-DK
⚓	610	Drab Brown-DK	3781	Mocha Brown-DK
\$	223	Shell Pink-LT	3032	Mocha Brown-MD
/	420	Hazelnut Brown-DK	3772	Desert Sand-VY DK
>	3024	Brown Gray-VY LT	3072	Beaver Gray-VY LT
☾	611	Drab Brown	632	Desert Sand-UL VY DK
♣	3021	Brown Gray-VY DK	3051	Green Gray-DK
✓	612	Drab Brown-LT	3064	Desert Sand
▲	301	Mahogany-MD	420	Hazelnut Brown-DK
▴	632	Desert Sand-UL VY DK	3790	Beige Gray-UL DK
♠	371	Mustard	3772	Desert Sand-VY DK
◊	402	Mahogany-VY LT	437	Tan-LT
/	977	Golden Brown-LT	3827	Golden Brown-Pale
L	780	Topaz-UL VY DK	782	Topaz-DK
☾	315	Antique Mauve-VY DK	3787	Brown Gray-DK
III	436	Tan	3828	Hazelnut Brown
⊠	3011	Khaki Green-DK	3012	Khaki Green-MD
•	3828	Hazelnut Brown	3863	Mocha Beige-MD
↑	935	Avocado Green-DK	3021	Brown Gray-VY DK
◦	3078	Golden Yellow-VY LT	3855	Autumn Gold-LT
★	420	Hazelnut Brown-DK	3830	Terra Cotta-MD
⚓	611	Drab Brown	612	Drab Brown-LT
§	436	Tan	3776	Mahogany-LT
⚓	3011	Khaki Green-DK	3051	Green Gray-DK
⚓	3011	Khaki Green-DK	3781	Mocha Brown-DK
●	310	Black	934	Black Avocado Green
⚓	356	Terra Cotta-MD	612	Drab Brown-LT
X	435	Brown-VY LT	3776	Mahogany-LT
■	301	Mahogany-MD	975	Golden Brown-DK
≡	782	Topaz-DK	3852	Straw-VY DK
■	839	Beige Brown-DK	3799	Pewter Gray-VY DK
◊	3776	Mahogany-LT	3828	Hazelnut Brown
⊠	436	Tan	3827	Golden Brown-Pale
*	640	Beige Gray-VY DK	3772	Desert Sand-VY DK
::	647	Beaver Gray-MD	3023	Brown Gray-LT
⚓	435	Brown-VY LT	3863	Mocha Beige-MD

524	Fern Green-VY LT	3864	Mocha Beige-LT
743	Yellow-MD	3827	Golden Brown-Pale
746	Off White	3078	Golden Yellow-VY LT
829	Golden Olive-VY DK	936	Avocado Green-VY DK
831	Golden Olive-MD	832	Golden Olive
420	Hazelnut Brown-DK	3826	Golden Brown
436	Tan	977	Golden Brown-LT
676	Old Gold-LT	3827	Golden Brown-Pale
801	Coffee Brown-DK	938	Coffee Brown-UL DK
729	Old Gold-MD	3776	Mahogany-LT
780	Topaz-UL VY DK	975	Golden Brown-DK
977	Golden Brown-LT	3820	Straw-DK
3820	Straw-DK	3852	Straw-VY DK
435	Brown-VY LT	3862	Mocha Beige-DK
743	Yellow-MD	744	Yellow-Pale
725	Topaz	3820	Straw-DK
741	Tangerine-MD	3852	Straw-VY DK
372	Mustard-LT	3864	Mocha Beige-LT
437	Tan-LT	977	Golden Brown-LT
612	Drab Brown-LT	3053	Green Gray
839	Beige Brown-DK	3031	Mocha Brown-VY DK
437	Tan-LT	3827	Golden Brown-Pale
722	Orange Spice-LT	3825	Pumpkin-Pale
730	Olive Green-VY DK	3781	Mocha Brown-DK
610	Drab Brown-DK	3362	Pine Green-DK
632	Desert Sand-UL VY DK	975	Golden Brown-DK
640	Beige Gray-VY DK	3052	Green Gray-MD
936	Avocado Green-VY DK	3031	Mocha Brown-VY DK
301	Mahogany-MD	3826	Golden Brown
632	Desert Sand-UL VY DK	829	Golden Olive-VY DK
734	Olive Green-LT	3012	Khaki Green-MD
741	Tangerine-MD	972	Canary-DK
733	Olive Green-MD	832	Golden Olive
3852	Straw-VY DK	3853	Autumn Gold-DK
610	Drab Brown-DK	829	Golden Olive-VY DK
436	Tan	729	Old Gold-MD
732	Olive Green	830	Golden Olive-DK
733	Olive Green-MD	3012	Khaki Green-MD
435	Brown-VY LT	680	Old Gold-DK
434	Brown-LT	632	Desert Sand-UL VY DK
730	Olive Green-VY DK	3011	Khaki Green-DK
783	Topaz-MD	976	Golden Brown-MD
832	Golden Olive	3829	Old Gold-VY DK
725	Topaz	3852	Straw-VY DK
734	Olive Green-LT	3828	Hazelnut Brown
829	Golden Olive-VY DK	839	Beige Brown-DK
831	Golden Olive-MD	3011	Khaki Green-DK
676	Old Gold-LT	743	Yellow-MD
444	Lemon-DK	832	Golden Olive
972	Canary-DK	973	Canary-BRT
733	Olive Green-MD	3852	Straw-VY DK
734	Olive Green-LT	782	Topaz-DK
743	Yellow-MD	3852	Straw-VY DK
734	Olive Green-LT	3852	Straw-VY DK
741	Tangerine-MD	744	Yellow-Pale
433	Brown-MD	832	Golden Olive
632	Desert Sand-UL VY DK	833	Golden Olive-LT
370	Mustard-MD	3011	Khaki Green-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	
223	Shell Pink-LT	8	3	8	3	7	2
301	Mahogany-MD	365	143	348	137	313	123
307	Lemon	2	1	2	1	1	1
310	Black	982	386	935	368	842	331
315	Antique Mauve-VY DK	19	7	18	7	17	6
356	Terra Cotta-MD	46	18	43	16	39	15
370	Mustard-MD	66	25	62	24	56	22
371	Mustard	35	13	34	13	30	11
372	Mustard-LT	5	1	5	1	4	1
402	Mahogany-VY LT	132	51	126	49	113	44
407	Desert Sand-DK	3	1	3	1	2	1
420	Hazelnut Brown-DK	1382	544	1316	518	1184	466
422	Hazelnut Brown-LT	7	2	6	2	6	2
433	Brown-MD	110	43	105	41	94	37
434	Brown-LT	216	85	206	81	185	72
435	Brown-VY LT	2591	1020	2467	971	2221	874
436	Tan	945	372	900	354	810	318
437	Tan-LT	809	318	771	303	694	273
444	Lemon-DK	38	14	37	14	33	12
452	Shell Gray-MD	2	1	2	1	1	1
524	Fern Green-VY LT	2	1	2	1	1	1
610	Drab Brown-DK	432	170	411	161	370	145
611	Drab Brown	638	251	608	239	547	215
612	Drab Brown-LT	84	33	80	31	72	28
632	Desert Sand-UL VY DK	1603	631	1527	601	1374	540
640	Beige Gray-VY DK	52	20	49	19	44	17
645	Beaver Gray-VY DK	7	2	6	2	6	2
647	Beaver Gray-MD	0	1	0	1	0	1
648	Beaver Gray-LT	2	1	2	1	1	1
676	Old Gold-LT	134	52	127	50	114	44
680	Old Gold-DK	121	47	115	45	103	40
722	Orange Spice-LT	0	1	0	1	0	1
725	Topaz	24	9	23	9	21	8
726	Topaz-LT	11	4	10	3	9	3
729	Old Gold-MD	503	198	479	188	431	169
730	Olive Green-VY DK	128	50	122	48	109	42
732	Olive Green	33	12	31	12	28	11
733	Olive Green-MD	93	36	88	34	79	31
734	Olive Green-LT	119	46	113	44	102	40
739	Tan-UL VY LT	2	1	2	1	2	1
741	Tangerine-MD	134	52	128	50	115	45
742	Tangerine-LT	28	11	27	10	24	9
743	Yellow-MD	84	33	80	31	72	28
744	Yellow-Pale	57	22	54	21	48	18
745	Yellow-LT Pale	15	5	14	5	13	5
746	Off White	12	4	11	4	10	3
754	Peach-LT	4	1	4	1	3	1
780	Topaz-UL VY DK	56	22	53	20	48	18
782	Topaz-DK	212	83	202	79	182	71
783	Topaz-MD	51	20	49	19	44	17
801	Coffee Brown-DK	130	51	124	48	112	44
829	Golden Olive-VY DK	266	104	253	99	228	89
830	Golden Olive-DK	69	27	65	25	59	23

831	Golden Olive-MD	347	136	330	129	297	116
832	Golden Olive	260	102	248	97	223	87
833	Golden Olive-LT	96	37	91	35	82	32
834	Golden Olive-VY LT	31	12	30	11	27	10
838	Beige Brown-VY DK	40	15	38	14	35	13
839	Beige Brown-DK	133	52	126	49	114	44
841	Beige Brown-LT	6	2	6	2	5	1
844	Beaver Brown-UL DK	11	4	11	4	10	3
898	Coffee Brown-VY DK	93	36	89	35	80	31
934	Black Avocado Green	756	297	720	283	648	255
935	Avocado Green-DK	509	200	485	190	436	171
936	Avocado Green-VY DK	256	100	244	96	220	86
938	Coffee Brown-UL DK	716	281	682	268	613	241
972	Canary-DK	234	92	223	87	201	79
973	Canary-BRT	83	32	79	31	71	27
975	Golden Brown-DK	340	133	324	127	292	114
976	Golden Brown-MD	123	48	117	46	105	41
977	Golden Brown-LT	1459	574	1389	546	1250	492
3011	Khaki Green-DK	708	278	674	265	607	238
3012	Khaki Green-MD	211	83	201	79	181	71
3013	Khaki Green-LT	11	4	10	3	9	3
3021	Brown Gray-VY DK	347	136	331	130	298	117
3023	Brown Gray-LT	0	1	0	1	0	1
3024	Brown Gray-VY LT	2	1	2	1	1	1
3031	Mocha Brown-VY DK	371	146	353	138	318	125
3032	Mocha Brown-MD	23	9	21	8	19	7
3045	Yellow Beige-DK	11	4	11	4	9	3
3046	Yellow Beige-MD	5	1	4	1	4	1
3051	Green Gray-DK	564	222	537	211	483	190
3052	Green Gray-MD	15	5	14	5	13	5
3053	Green Gray	11	4	11	4	10	3
3064	Desert Sand	7	2	6	2	6	2
3072	Beaver Gray-VY LT	2	1	2	1	1	1
3078	Golden Yellow-VY LT	25	9	24	9	22	8
3362	Pine Green-DK	87	34	83	32	75	29
3371	Black Brown	928	365	884	348	795	312
3772	Desert Sand-VY DK	678	266	645	253	581	228
3776	Mahogany-LT	389	153	370	145	333	131
3781	Mocha Brown-DK	266	104	253	99	228	89
3787	Brown Gray-DK	49	19	46	18	42	16
3790	Beige Gray-UL DK	182	71	173	68	156	61
3799	Pewter Gray-VY DK	16	6	15	5	14	5
3819	Moss Green-LT	3	1	3	1	3	1
3820	Straw-DK	97	38	92	36	83	32
3823	Yellow-UL Pale	12	4	11	4	10	3
3825	Pumpkin-Pale	0	1	0	1	0	1
3826	Golden Brown	520	204	496	195	446	175
3827	Golden Brown-Pale	1429	562	1361	535	1225	482
3828	Hazelnut Brown	939	369	894	351	805	316
3829	Old Gold-VY DK	58	22	55	21	50	19
3830	Terra Cotta-MD	38	14	36	14	32	12
3852	Straw-VY DK	200	78	191	75	172	67
3853	Autumn Gold-DK	37	14	35	13	32	12
3854	Autumn Gold-MD	55	21	52	20	47	18
3855	Autumn Gold-LT	16	6	15	5	13	5
3856	Mahogany-UL VY LT	39	15	38	14	34	13
3860	Cocoa	40	15	38	14	34	13
3861	Cocoa-LT	2	1	2	1	1	1
3862	Mocha Beige-DK	1098	432	1046	411	941	370

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3863	Mocha Beige-MD	586	230	558	219	502	197
3864	Mocha Beige-LT	7	2	6	2	6	2

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
223	Shell Pink-LT	13	4	11	3	5	2
301	Mahogany-MD	563	221	470	185	235	92
307	Lemon	2	2	2	2	1	1
310	Black	1516	596	1263	497	632	248
315	Antique Mauve-VY DK	31	11	26	9	13	5
356	Terra Cotta-MD	70	27	59	23	29	11
370	Mustard-MD	101	40	84	33	42	17
371	Mustard	54	20	45	17	23	8
372	Mustard-LT	7	2	6	2	3	1
402	Mahogany-VY LT	203	79	170	66	85	33
407	Desert Sand-DK	4	2	3	2	2	1
420	Hazelnut Brown-DK	2131	839	1776	699	888	350
422	Hazelnut Brown-LT	11	4	9	3	5	2
433	Brown-MD	169	67	141	56	71	28
434	Brown-LT	333	130	278	108	139	54
435	Brown-VY LT	3998	1573	3332	1311	1666	656
436	Tan	1458	572	1215	477	608	239
437	Tan-LT	1249	491	1041	410	521	205
444	Lemon-DK	59	22	50	18	25	9
452	Shell Gray-MD	2	2	2	2	1	1
524	Fern Green-VY LT	2	2	2	2	1	1
610	Drab Brown-DK	666	261	555	218	278	109
611	Drab Brown	985	387	821	323	410	161
612	Drab Brown-LT	130	50	108	42	54	21
632	Desert Sand-UL VY DK	2473	972	2061	810	1031	405
640	Beige Gray-VY DK	79	31	66	26	33	13
645	Beaver Gray-VY DK	11	4	9	3	5	2
647	Beaver Gray-MD	0	2	0	2	0	1
648	Beaver Gray-LT	2	2	2	2	1	1
676	Old Gold-LT	205	79	171	66	86	33
680	Old Gold-DK	185	72	155	60	77	30
722	Orange Spice-LT	0	2	0	2	0	1
725	Topaz	38	14	32	12	16	6
726	Topaz-LT	16	5	14	5	7	2
729	Old Gold-MD	776	304	647	254	323	127
730	Olive Green-VY DK	196	76	164	63	82	32
732	Olive Green	50	20	42	17	21	8
733	Olive Green-MD	142	56	119	47	59	23
734	Olive Green-LT	184	72	153	60	77	30
739	Tan-UL VY LT	4	2	3	2	2	1
741	Tangerine-MD	207	81	173	68	86	34
742	Tangerine-LT	43	16	36	14	18	7
743	Yellow-MD	130	50	108	42	54	21
744	Yellow-Pale	86	32	72	27	36	14
745	Yellow-LT Pale	23	9	20	8	10	4
746	Off White	18	5	15	5	8	2
754	Peach-LT	5	2	5	2	2	1
780	Topaz-UL VY DK	86	32	72	27	36	14
782	Topaz-DK	328	128	273	107	137	53
783	Topaz-MD	79	31	66	26	33	13

801	Coffee Brown-DK	202	79	168	66	84	33
829	Golden Olive-VY DK	410	160	342	134	171	67
830	Golden Olive-DK	106	41	89	35	44	17
831	Golden Olive-MD	535	209	446	174	223	87
832	Golden Olive	401	157	335	131	167	65
833	Golden Olive-LT	148	58	123	48	62	24
834	Golden Olive-VY LT	49	18	41	15	20	8
838	Beige Brown-VY DK	63	23	53	20	26	10
839	Beige Brown-DK	205	79	171	66	86	33
841	Beige Brown-LT	9	2	8	2	4	1
844	Beaver Brown-UL DK	18	5	15	5	8	2
898	Coffee Brown-VY DK	144	56	120	47	60	23
934	Black Avocado Green	1166	459	972	383	486	191
935	Avocado Green-DK	785	308	654	257	327	128
936	Avocado Green-VY DK	396	155	330	129	165	65
938	Coffee Brown-UL DK	1103	434	920	362	460	181
972	Canary-DK	362	142	302	119	151	59
973	Canary-BRT	128	49	107	41	53	20
975	Golden Brown-DK	526	205	438	171	219	86
976	Golden Brown-MD	189	74	158	62	79	31
977	Golden Brown-LT	2250	886	1875	738	938	369
3011	Khaki Green-DK	1093	428	911	357	455	179
3012	Khaki Green-MD	326	128	272	107	136	53
3013	Khaki Green-LT	16	5	14	5	7	2
3021	Brown Gray-VY DK	536	211	447	176	224	88
3023	Brown Gray-LT	0	2	0	2	0	1
3024	Brown Gray-VY LT	2	2	2	2	1	1
3031	Mocha Brown-VY DK	572	225	477	188	239	94
3032	Mocha Brown-MD	34	13	29	11	14	5
3045	Yellow Beige-DK	16	5	14	5	7	2
3046	Yellow Beige-MD	7	2	6	2	3	1
3051	Green Gray-DK	869	342	725	285	362	143
3052	Green Gray-MD	23	9	20	8	10	4
3053	Green Gray	18	5	15	5	8	2
3064	Desert Sand	11	4	9	3	5	2
3072	Beaver Gray-VY LT	2	2	2	2	1	1
3078	Golden Yellow-VY LT	40	14	33	12	17	6
3362	Pine Green-DK	135	52	113	44	56	22
3371	Black Brown	1431	562	1193	468	596	234
3772	Desert Sand-VY DK	1046	410	872	342	436	171
3776	Mahogany-LT	599	236	500	197	250	98
3781	Mocha Brown-DK	410	160	342	134	171	67
3787	Brown Gray-DK	76	29	63	24	32	12
3790	Beige Gray-UL DK	281	110	234	92	117	46
3799	Pewter Gray-VY DK	25	9	21	8	11	4
3819	Moss Green-LT	5	2	5	2	2	1
3820	Straw-DK	149	58	125	48	62	24
3823	Yellow-UL Pale	18	5	15	5	8	2
3825	Pumpkin-Pale	0	2	0	2	0	1
3826	Golden Brown	803	315	669	263	335	131
3827	Golden Brown-Pale	2205	868	1838	723	919	362
3828	Hazelnut Brown	1449	569	1208	474	604	237
3829	Old Gold-VY DK	90	34	75	29	38	14
3830	Terra Cotta-MD	58	22	48	18	24	9
3852	Straw-VY DK	310	121	258	101	129	50
3853	Autumn Gold-DK	58	22	48	18	24	9
3854	Autumn Gold-MD	85	32	71	27	35	14
3855	Autumn Gold-LT	23	9	20	8	10	4
3856	Mahogany-UL VY LT	61	23	51	20	26	10

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3860	Cocoa	61	23	51	20	26	10
3861	Cocoa-LT	2	2	2	2	1	1
3862	Mocha Beige-DK	1694	666	1412	555	706	278
3863	Mocha Beige-MD	904	355	753	296	377	148
3864	Mocha Beige-LT	11	4	9	3	5	2

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
223	Shell Pink-LT	5	1	5	1	5	1
301	Mahogany-MD	225	89	217	85	209	82
307	Lemon	1	1	1	1	1	1
310	Black	606	238	583	229	561	221
315	Antique Mauve-VY DK	12	4	12	4	11	4
356	Terra Cotta-MD	28	11	27	10	26	10
370	Mustard-MD	40	16	39	15	37	15
371	Mustard	22	8	21	8	20	7
372	Mustard-LT	3	1	3	1	3	1
402	Mahogany-VY LT	81	32	78	30	75	29
407	Desert Sand-DK	1	1	1	1	1	1
420	Hazelnut Brown-DK	852	336	820	323	789	311
422	Hazelnut Brown-LT	4	1	4	1	4	1
433	Brown-MD	68	27	65	26	63	25
434	Brown-LT	133	52	128	50	123	48
435	Brown-VY LT	1599	629	1538	605	1481	583
436	Tan	583	229	561	220	540	212
437	Tan-LT	500	197	480	189	463	182
444	Lemon-DK	24	9	23	8	22	8
452	Shell Gray-MD	1	1	1	1	1	1
524	Fern Green-VY LT	1	1	1	1	1	1
610	Drab Brown-DK	266	104	256	100	247	97
611	Drab Brown	394	155	379	149	365	143
612	Drab Brown-LT	52	20	50	19	48	19
632	Desert Sand-UL VY DK	989	389	951	374	916	360
640	Beige Gray-VY DK	32	12	30	12	29	11
645	Beaver Gray-VY DK	4	1	4	1	4	1
647	Beaver Gray-MD	0	1	0	1	0	1
648	Beaver Gray-LT	1	1	1	1	1	1
676	Old Gold-LT	82	32	79	30	76	29
680	Old Gold-DK	74	29	71	28	69	27
722	Orange Spice-LT	0	1	0	1	0	1
725	Topaz	15	6	15	6	14	5
726	Topaz-LT	6	2	6	2	6	2
729	Old Gold-MD	310	122	298	117	287	113
730	Olive Green-VY DK	78	30	75	29	73	28
732	Olive Green	20	8	19	8	19	7
733	Olive Green-MD	57	22	55	21	53	21
734	Olive Green-LT	73	29	71	28	68	27
739	Tan-UL VY LT	1	1	1	1	1	1
741	Tangerine-MD	83	32	80	31	77	30
742	Tangerine-LT	17	6	17	6	16	6
743	Yellow-MD	52	20	50	19	48	19
744	Yellow-Pale	35	13	33	12	32	12
745	Yellow-LT Pale	9	4	9	3	9	3
746	Off White	7	2	7	2	7	2
754	Peach-LT	2	1	2	1	2	1

780	Topaz-UL VY DK	35	13	33	12	32	12
782	Topaz-DK	131	51	126	49	121	47
783	Topaz-MD	32	12	30	12	29	11
801	Coffee Brown-DK	81	32	78	30	75	29
829	Golden Olive-VY DK	164	64	158	62	152	59
830	Golden Olive-DK	42	17	41	16	39	15
831	Golden Olive-MD	214	84	206	80	198	77
832	Golden Olive	161	63	154	60	149	58
833	Golden Olive-LT	59	23	57	22	55	21
834	Golden Olive-VY LT	19	7	19	7	18	7
838	Beige Brown-VY DK	25	9	24	9	23	9
839	Beige Brown-DK	82	32	79	30	76	29
841	Beige Brown-LT	4	1	3	1	3	1
844	Beaver Brown-UL DK	7	2	7	2	7	2
898	Coffee Brown-VY DK	58	22	55	21	53	21
934	Black Avocado Green	467	184	449	177	432	170
935	Avocado Green-DK	314	123	302	118	291	114
936	Avocado Green-VY DK	158	62	152	60	147	57
938	Coffee Brown-UL DK	441	174	424	167	409	161
972	Canary-DK	145	57	139	55	134	53
973	Canary-BRT	51	19	49	19	47	18
975	Golden Brown-DK	210	82	202	79	195	76
976	Golden Brown-MD	76	30	73	28	70	27
977	Golden Brown-LT	900	354	865	341	833	328
3011	Khaki Green-DK	437	171	420	165	405	159
3012	Khaki Green-MD	130	51	125	49	121	47
3013	Khaki Green-LT	6	2	6	2	6	2
3021	Brown Gray-VY DK	215	84	206	81	199	78
3023	Brown Gray-LT	0	1	0	1	0	1
3024	Brown Gray-VY LT	1	1	1	1	1	1
3031	Mocha Brown-VY DK	229	90	220	87	212	83
3032	Mocha Brown-MD	14	5	13	5	13	5
3045	Yellow Beige-DK	6	2	6	2	6	2
3046	Yellow Beige-MD	3	1	3	1	3	1
3051	Green Gray-DK	348	137	334	132	322	127
3052	Green Gray-MD	9	4	9	3	9	3
3053	Green Gray	7	2	7	2	7	2
3064	Desert Sand	4	1	4	1	4	1
3072	Beaver Gray-VY LT	1	1	1	1	1	1
3078	Golden Yellow-VY LT	16	6	15	6	15	5
3362	Pine Green-DK	54	21	52	20	50	19
3371	Black Brown	572	225	550	216	530	208
3772	Desert Sand-VY DK	418	164	402	158	387	152
3776	Mahogany-LT	240	94	231	91	222	87
3781	Mocha Brown-DK	164	64	158	62	152	59
3787	Brown Gray-DK	30	12	29	11	28	11
3790	Beige Gray-UL DK	112	44	108	42	104	41
3799	Pewter Gray-VY DK	10	4	10	3	9	3
3819	Moss Green-LT	2	1	2	1	2	1
3820	Straw-DK	60	23	57	22	55	21
3823	Yellow-UL Pale	7	2	7	2	7	2
3825	Pumpkin-Pale	0	1	0	1	0	1
3826	Golden Brown	321	126	309	121	297	117
3827	Golden Brown-Pale	882	347	848	334	817	321
3828	Hazelnut Brown	580	228	557	219	537	211
3829	Old Gold-VY DK	36	14	35	13	33	13
3830	Terra Cotta-MD	23	9	22	8	21	8
3852	Straw-VY DK	124	48	119	46	115	45
3853	Autumn Gold-DK	23	9	22	8	21	8

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3854	Autumn Gold-MD	34	13	33	12	31	12
3855	Autumn Gold-LT	9	4	9	3	9	3
3856	Mahogany-UL VY LT	24	9	24	9	23	9
3860	Cocoa	24	9	24	9	23	9
3861	Cocoa-LT	1	1	1	1	1	1
3862	Mocha Beige-DK	678	266	651	256	627	247
3863	Mocha Beige-MD	361	142	348	136	335	131
3864	Mocha Beige-LT	4	1	4	1	4	1

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
223	Shell Pink-LT	5	1	4	1	4	1
301	Mahogany-MD	201	79	188	74	176	69
307	Lemon	1	1	1	1	1	1
310	Black	541	213	505	199	474	186
315	Antique Mauve-VY DK	11	4	10	4	10	3
356	Terra Cotta-MD	25	10	23	9	22	8
370	Mustard-MD	36	14	34	13	32	12
371	Mustard	19	7	18	7	17	6
372	Mustard-LT	3	1	2	1	2	1
402	Mahogany-VY LT	73	28	68	26	64	25
407	Desert Sand-DK	1	1	1	1	1	1
420	Hazelnut Brown-DK	761	300	710	280	666	262
422	Hazelnut Brown-LT	4	1	4	1	3	1
433	Brown-MD	60	24	56	22	53	21
434	Brown-LT	119	46	111	43	104	41
435	Brown-VY LT	1428	562	1333	524	1249	492
436	Tan	521	204	486	191	456	179
437	Tan-LT	446	176	416	164	390	154
444	Lemon-DK	21	8	20	7	19	7
452	Shell Gray-MD	1	1	1	1	1	1
524	Fern Green-VY LT	1	1	1	1	1	1
610	Drab Brown-DK	238	93	222	87	208	82
611	Drab Brown	352	138	328	129	308	121
612	Drab Brown-LT	46	18	43	17	41	16
632	Desert Sand-UL VY DK	883	347	824	324	773	304
640	Beige Gray-VY DK	28	11	26	10	25	10
645	Beaver Gray-VY DK	4	1	4	1	3	1
647	Beaver Gray-MD	0	1	0	1	0	1
648	Beaver Gray-LT	1	1	1	1	1	1
676	Old Gold-LT	73	28	68	26	64	25
680	Old Gold-DK	66	26	62	24	58	23
722	Orange Spice-LT	0	1	0	1	0	1
725	Topaz	14	5	13	5	12	5
726	Topaz-LT	6	2	5	2	5	2
729	Old Gold-MD	277	109	259	101	242	95
730	Olive Green-VY DK	70	27	65	25	61	24
732	Olive Green	18	7	17	7	16	6
733	Olive Green-MD	51	20	47	19	44	17
734	Olive Green-LT	66	26	61	24	57	23
739	Tan-UL VY LT	1	1	1	1	1	1
741	Tangerine-MD	74	29	69	27	65	25
742	Tangerine-LT	15	6	14	5	14	5
743	Yellow-MD	46	18	43	17	41	16
744	Yellow-Pale	31	12	29	11	27	10

745	Yellow-LT Pale	8	3	8	3	7	3
746	Off White	6	2	6	2	6	2
754	Peach-LT	2	1	2	1	2	1
780	Topaz-UL VY DK	31	12	29	11	27	10
782	Topaz-DK	117	46	109	43	102	40
783	Topaz-MD	28	11	26	10	25	10
801	Coffee Brown-DK	72	28	67	26	63	25
829	Golden Olive-VY DK	147	57	137	53	128	50
830	Golden Olive-DK	38	15	35	14	33	13
831	Golden Olive-MD	191	75	178	70	167	65
832	Golden Olive	143	56	134	52	125	49
833	Golden Olive-LT	53	21	49	19	46	18
834	Golden Olive-VY LT	17	6	16	6	15	6
838	Beige Brown-VY DK	23	8	21	8	20	7
839	Beige Brown-DK	73	28	68	26	64	25
841	Beige Brown-LT	3	1	3	1	3	1
844	Beaver Brown-UL DK	6	2	6	2	6	2
898	Coffee Brown-VY DK	51	20	48	19	45	17
934	Black Avocado Green	417	164	389	153	365	143
935	Avocado Green-DK	280	110	262	103	245	96
936	Avocado Green-VY DK	141	55	132	52	124	48
938	Coffee Brown-UL DK	394	155	368	145	345	136
972	Canary-DK	129	51	121	47	113	44
973	Canary-BRT	46	17	43	16	40	15
975	Golden Brown-DK	188	73	175	68	164	64
976	Golden Brown-MD	68	26	63	25	59	23
977	Golden Brown-LT	804	316	750	295	703	277
3011	Khaki Green-DK	390	153	364	143	341	134
3012	Khaki Green-MD	116	46	109	43	102	40
3013	Khaki Green-LT	6	2	5	2	5	2
3021	Brown Gray-VY DK	192	75	179	70	168	66
3023	Brown Gray-LT	0	1	0	1	0	1
3024	Brown Gray-VY LT	1	1	1	1	1	1
3031	Mocha Brown-VY DK	204	80	191	75	179	70
3032	Mocha Brown-MD	12	5	11	4	11	4
3045	Yellow Beige-DK	6	2	5	2	5	2
3046	Yellow Beige-MD	3	1	2	1	2	1
3051	Green Gray-DK	311	122	290	114	272	107
3052	Green Gray-MD	8	3	8	3	7	3
3053	Green Gray	6	2	6	2	6	2
3064	Desert Sand	4	1	4	1	3	1
3072	Beaver Gray-VY LT	1	1	1	1	1	1
3078	Golden Yellow-VY LT	14	5	13	5	12	5
3362	Pine Green-DK	48	19	45	17	42	16
3371	Black Brown	511	201	477	187	447	176
3772	Desert Sand-VY DK	374	147	349	137	327	128
3776	Mahogany-LT	214	84	200	79	187	74
3781	Mocha Brown-DK	147	57	137	53	128	50
3787	Brown Gray-DK	27	10	25	10	24	9
3790	Beige Gray-UL DK	100	39	94	37	88	34
3799	Pewter Gray-VY DK	9	3	8	3	8	3
3819	Moss Green-LT	2	1	2	1	2	1
3820	Straw-DK	53	21	50	19	47	18
3823	Yellow-UL Pale	6	2	6	2	6	2
3825	Pumpkin-Pale	0	1	0	1	0	1
3826	Golden Brown	287	113	268	105	251	98
3827	Golden Brown-Pale	788	310	735	289	689	271
3828	Hazelnut Brown	518	203	483	190	453	178
3829	Old Gold-VY DK	32	12	30	11	28	11

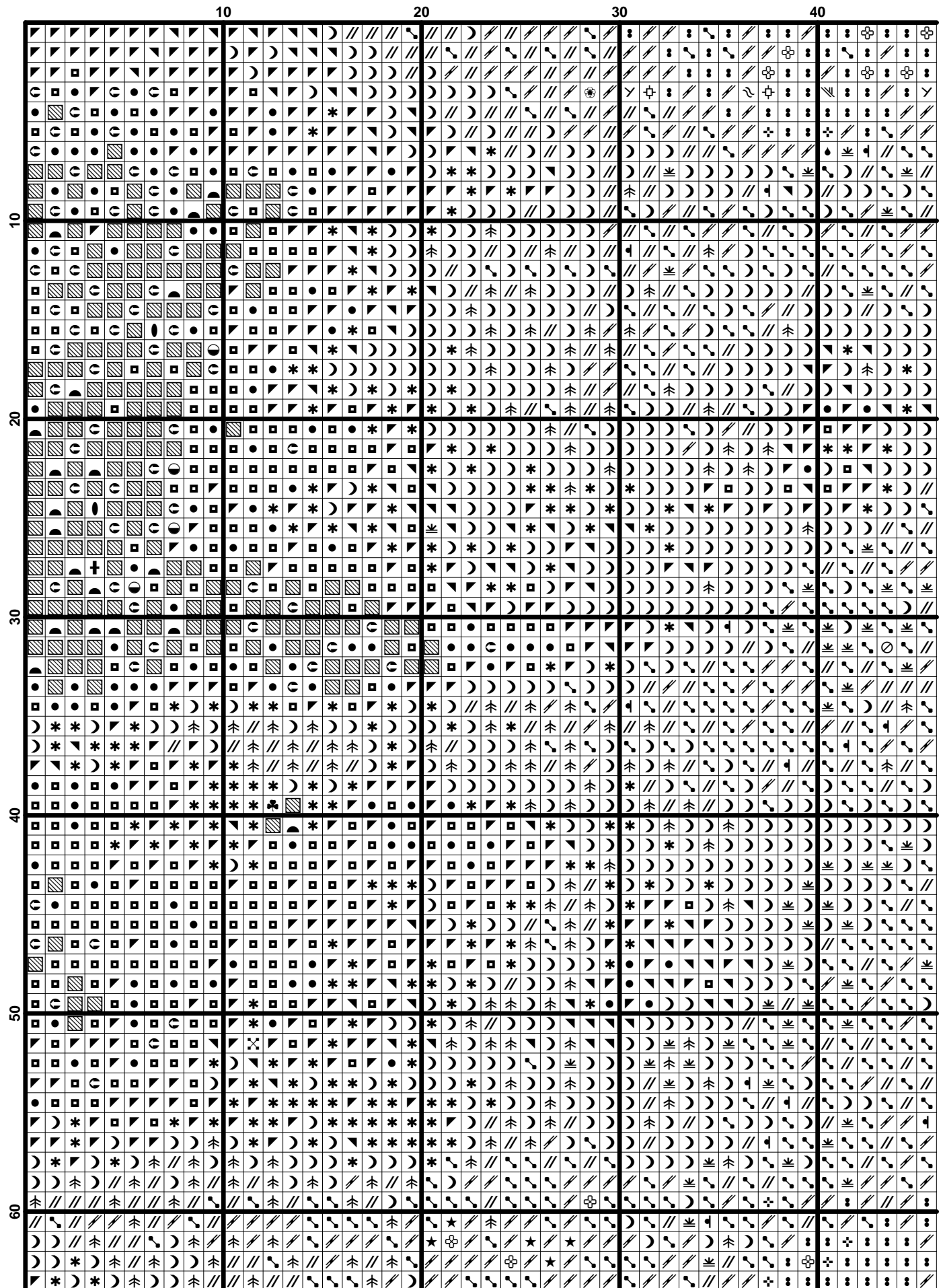
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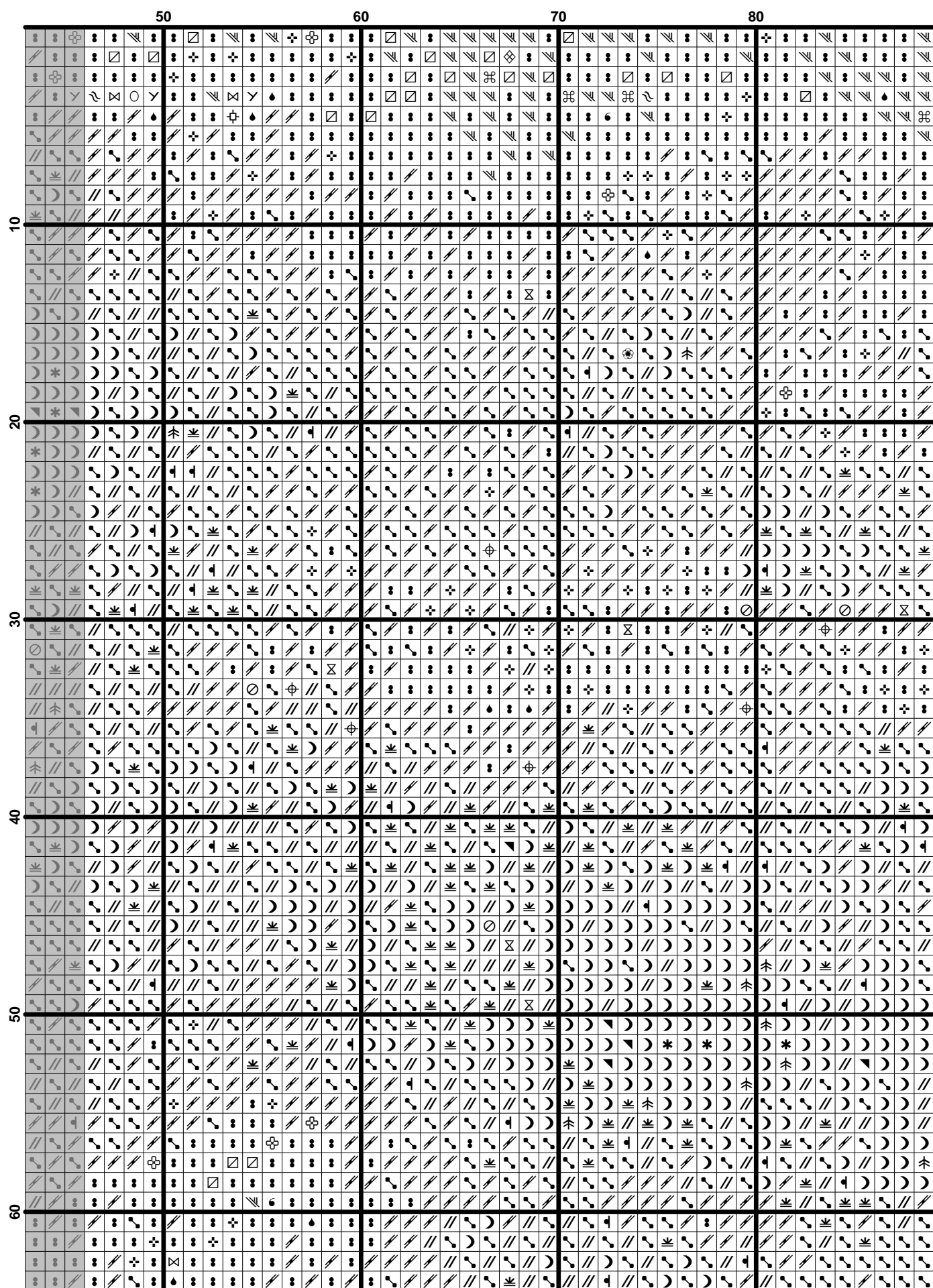
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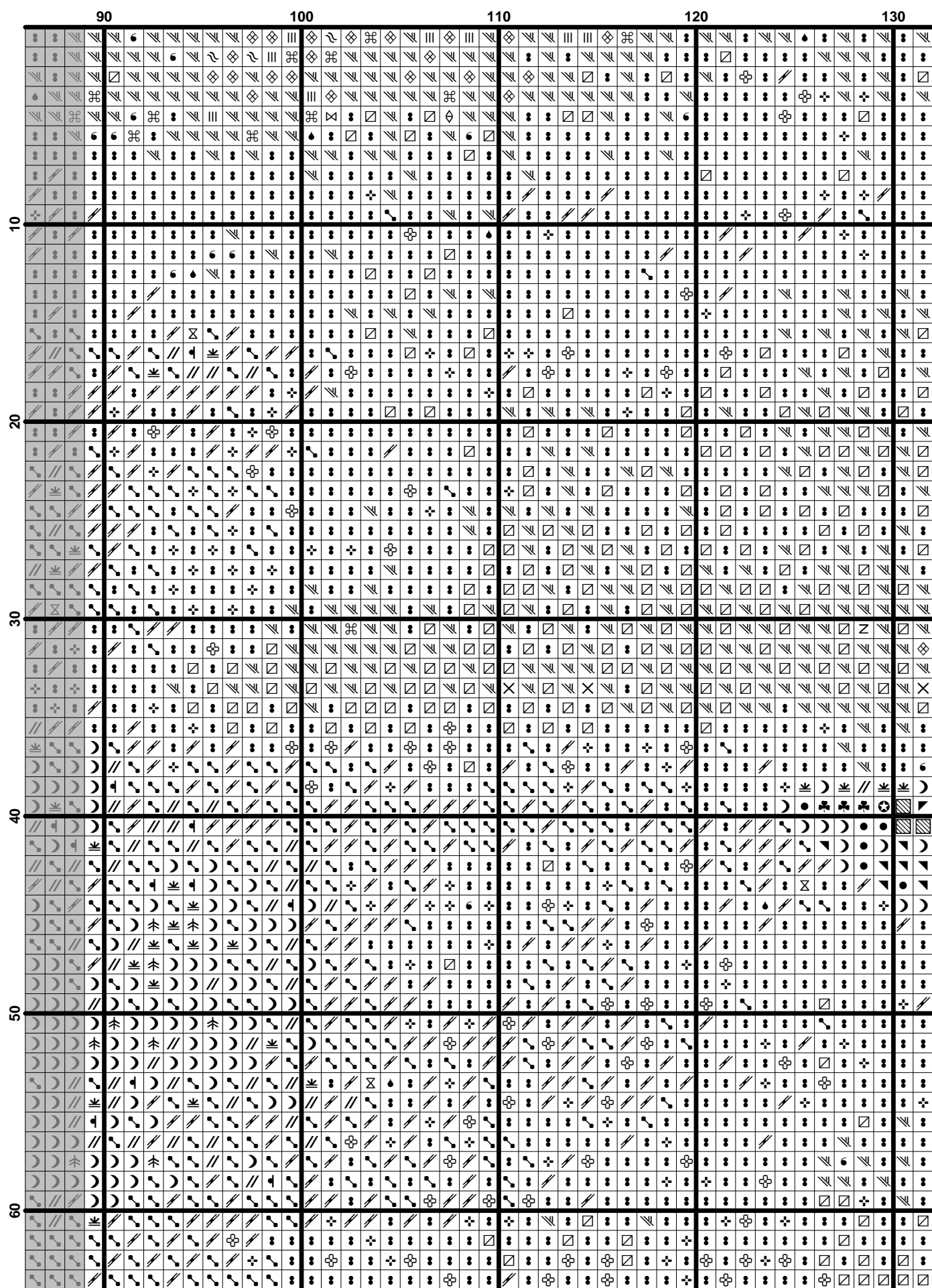
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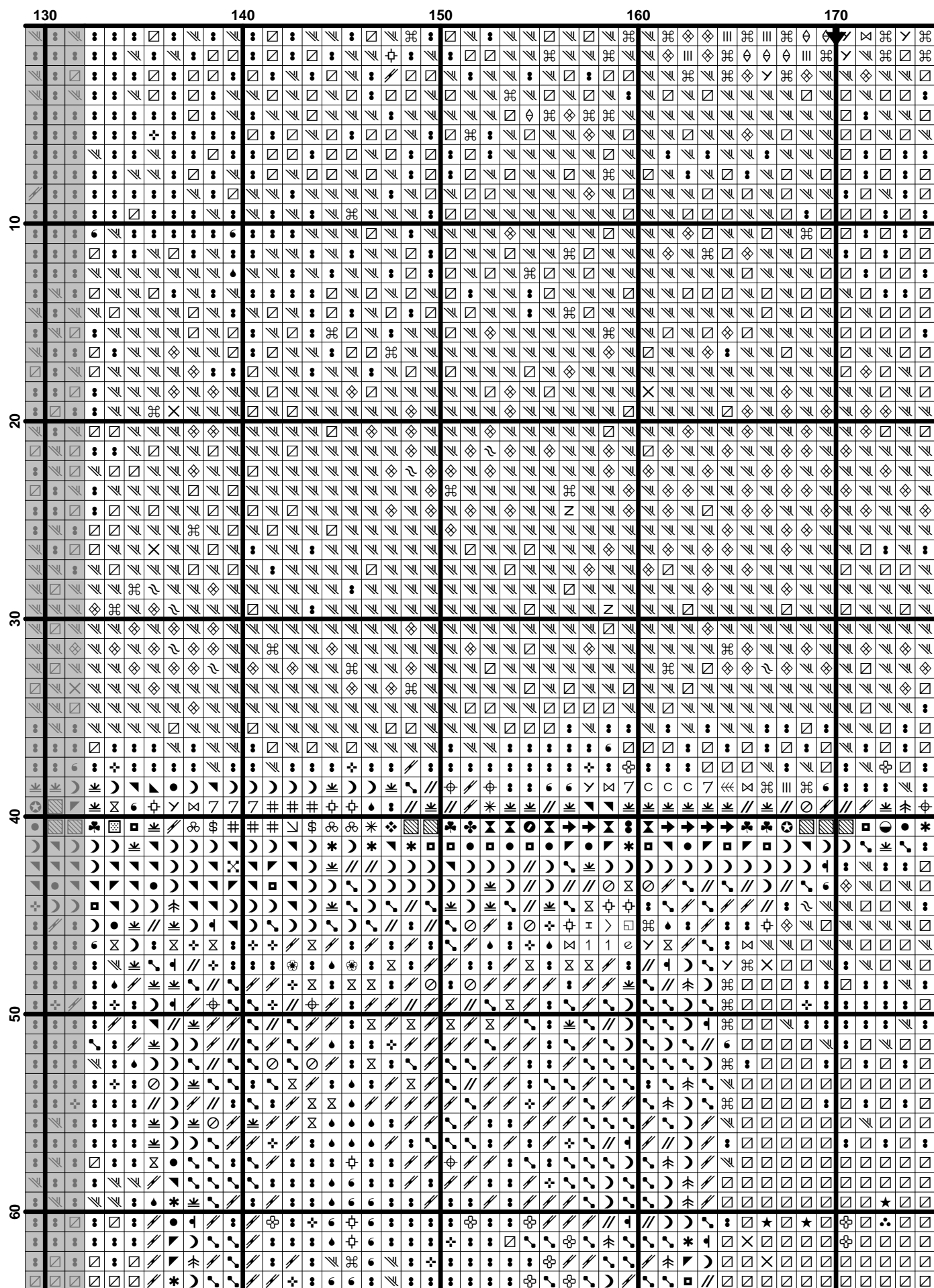
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3852	Straw-VY DK	111	43	103	40	97	38
3853	Autumn Gold-DK	21	8	19	7	18	7
3854	Autumn Gold-MD	30	12	28	11	26	10
3855	Autumn Gold-LT	8	3	8	3	7	3
3856	Mahogany-UL VY LT	22	8	20	8	19	7
3860	Cocoa	22	8	20	8	19	7
3861	Cocoa-LT	1	1	1	1	1	1
3862	Mocha Beige-DK	605	238	565	222	529	208
3863	Mocha Beige-MD	323	127	301	118	282	111
3864	Mocha Beige-LT	4	1	4	1	3	1

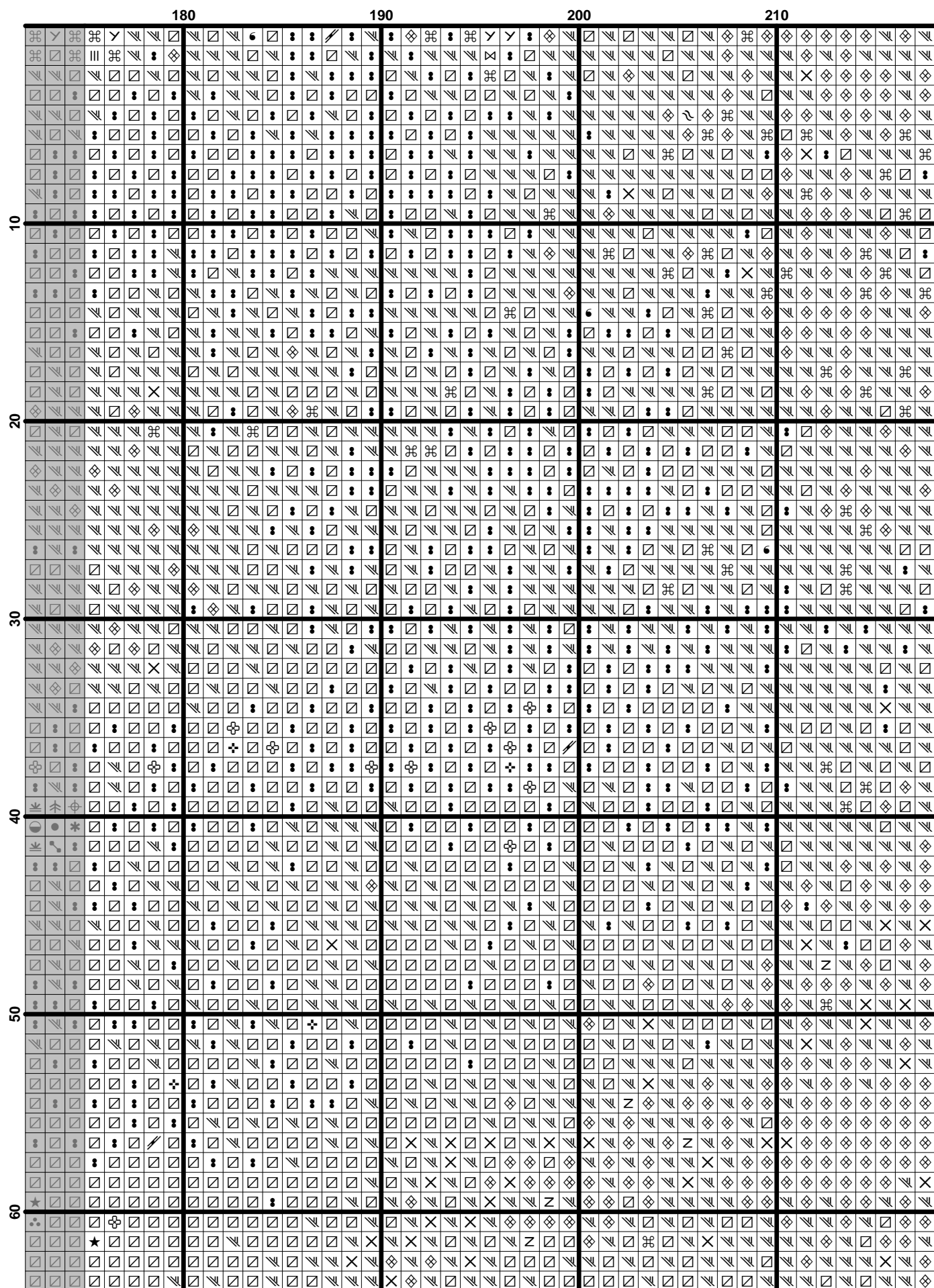










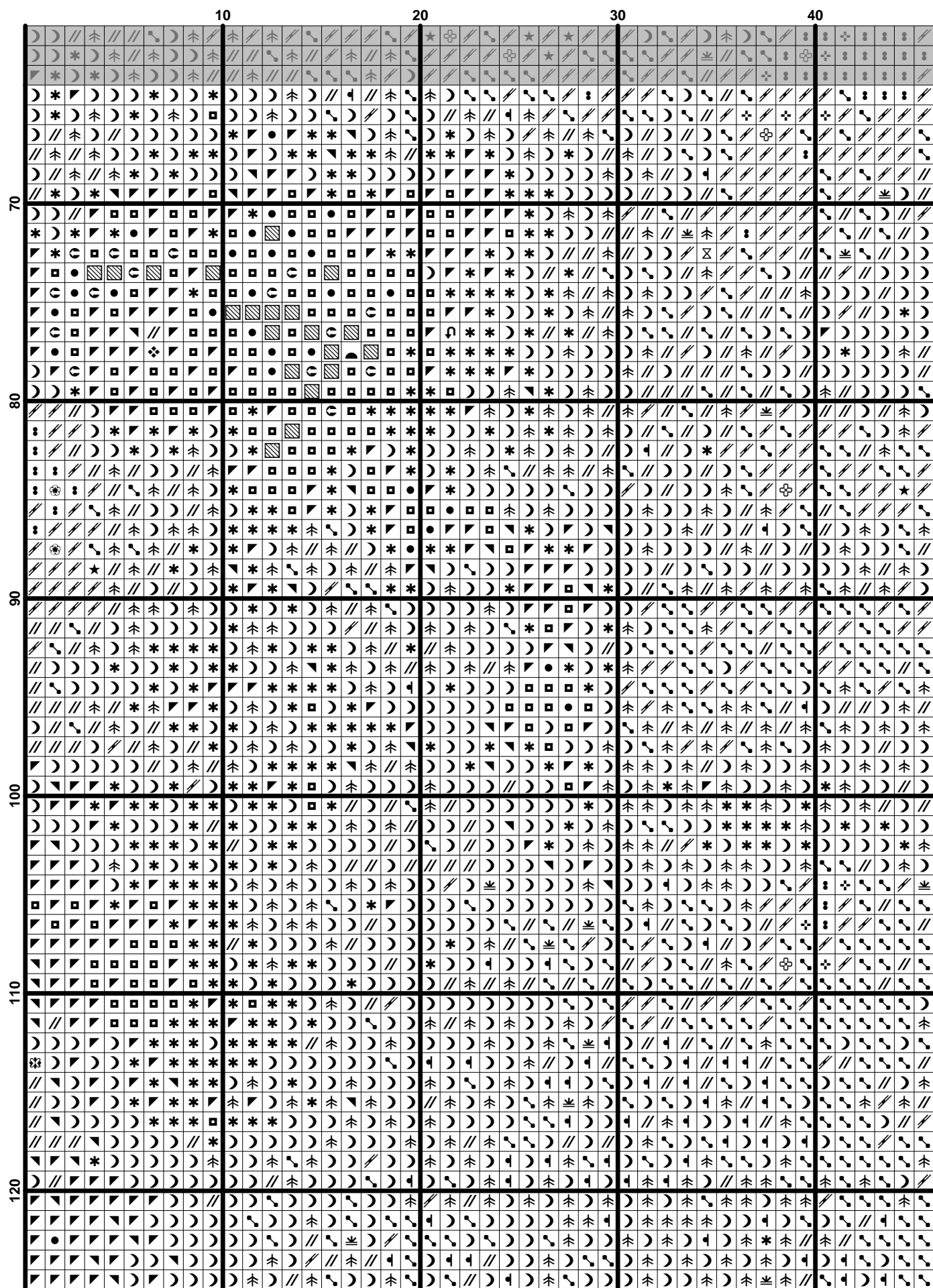


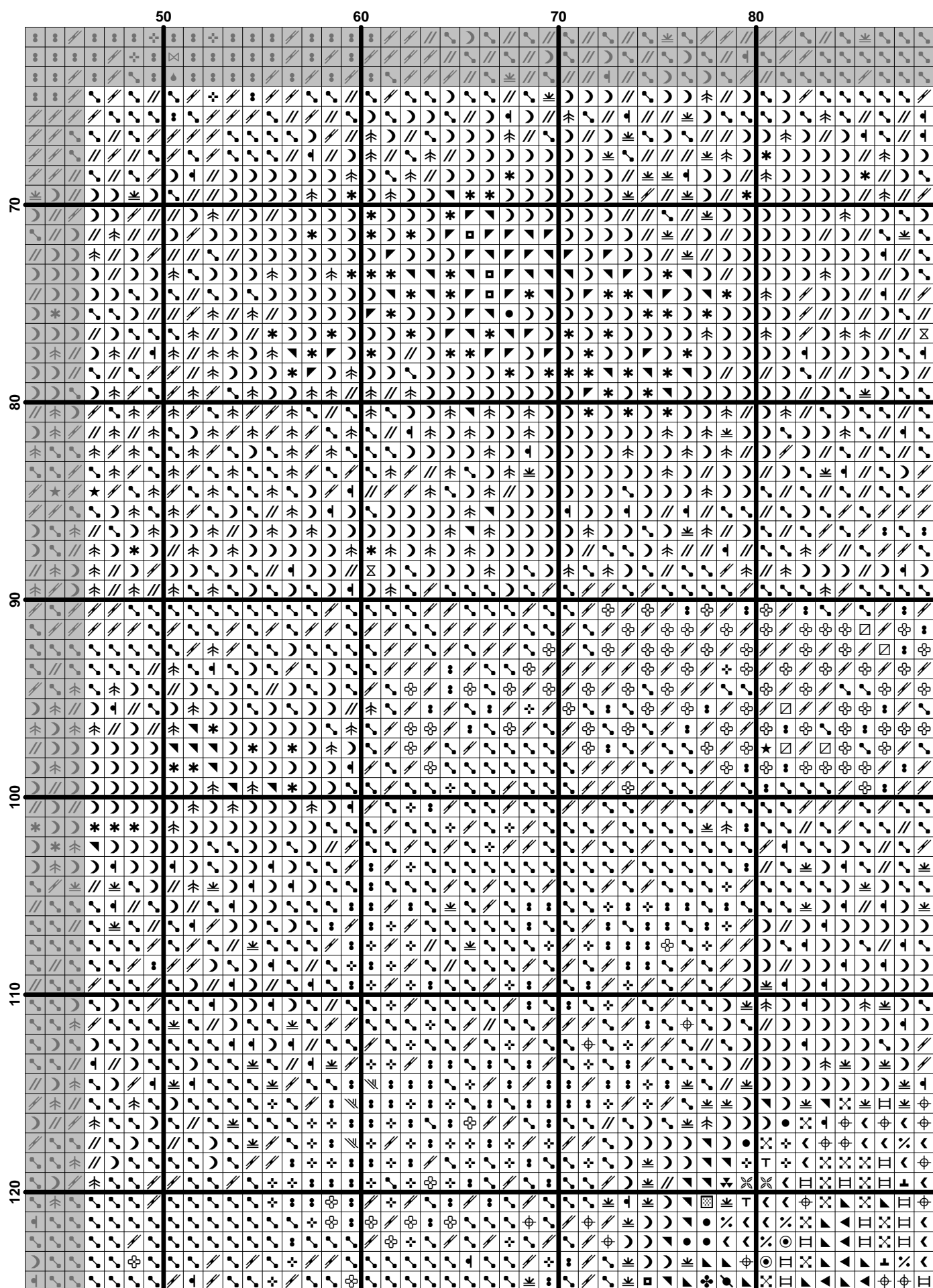
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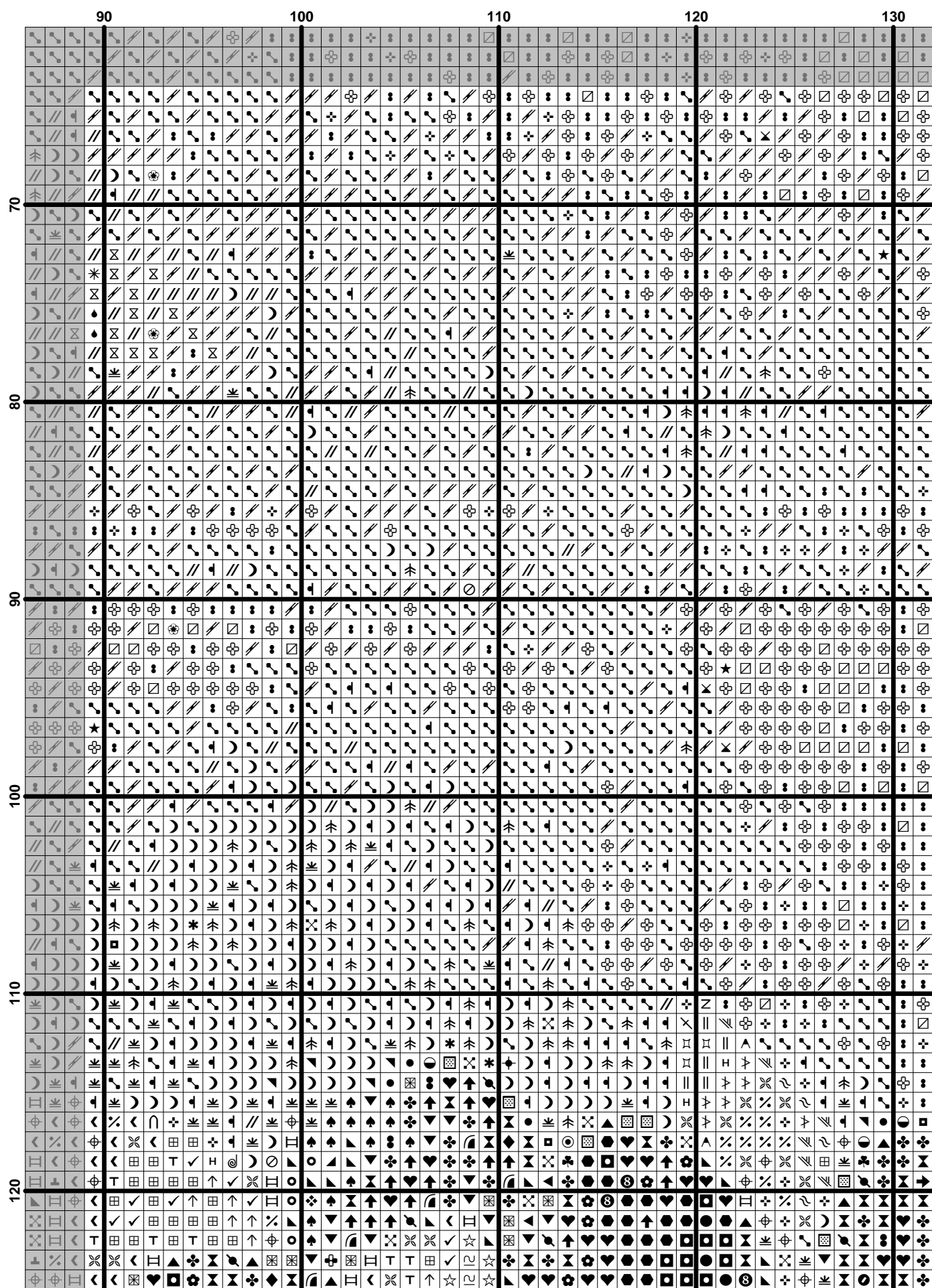
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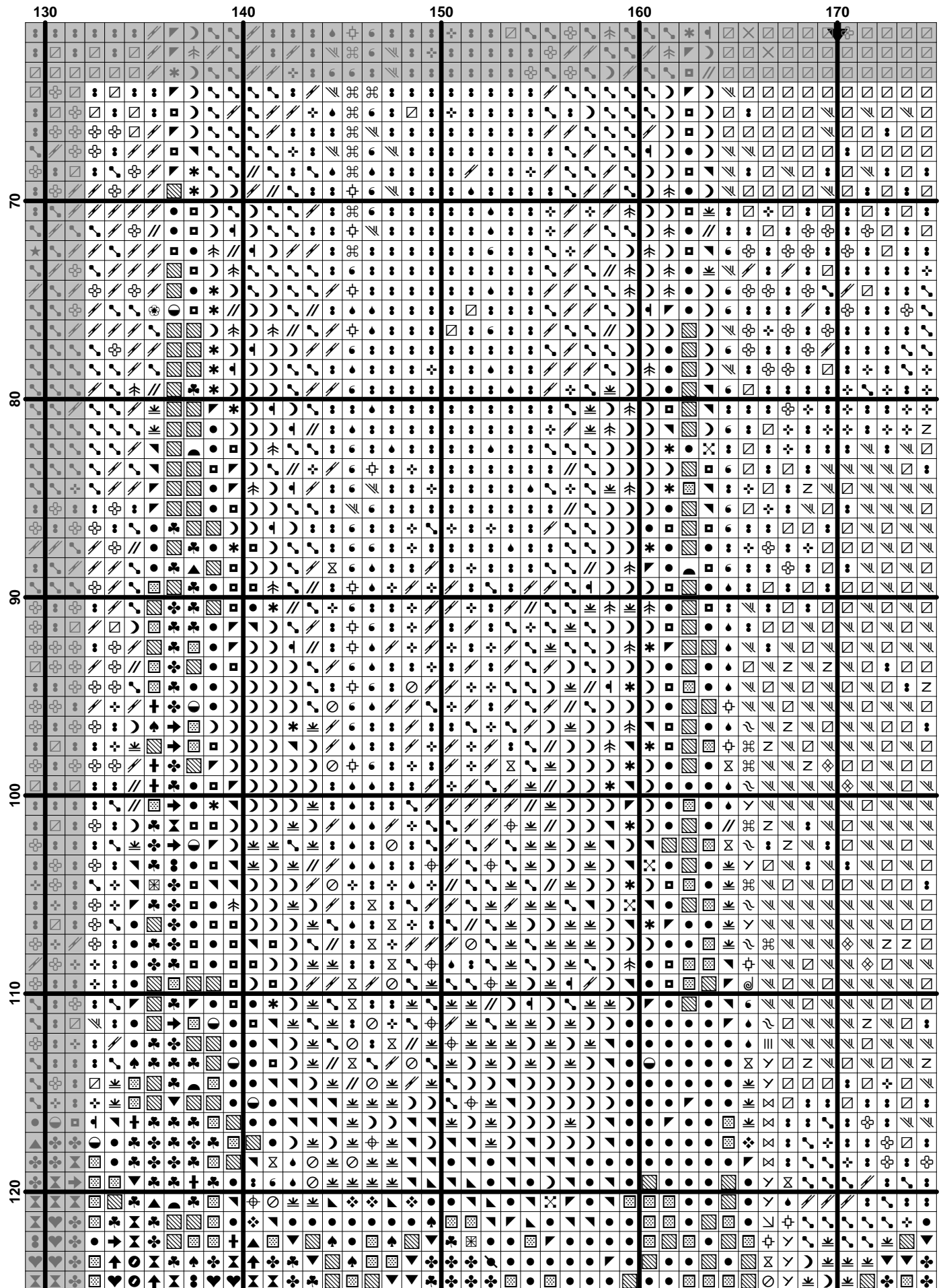


(16)









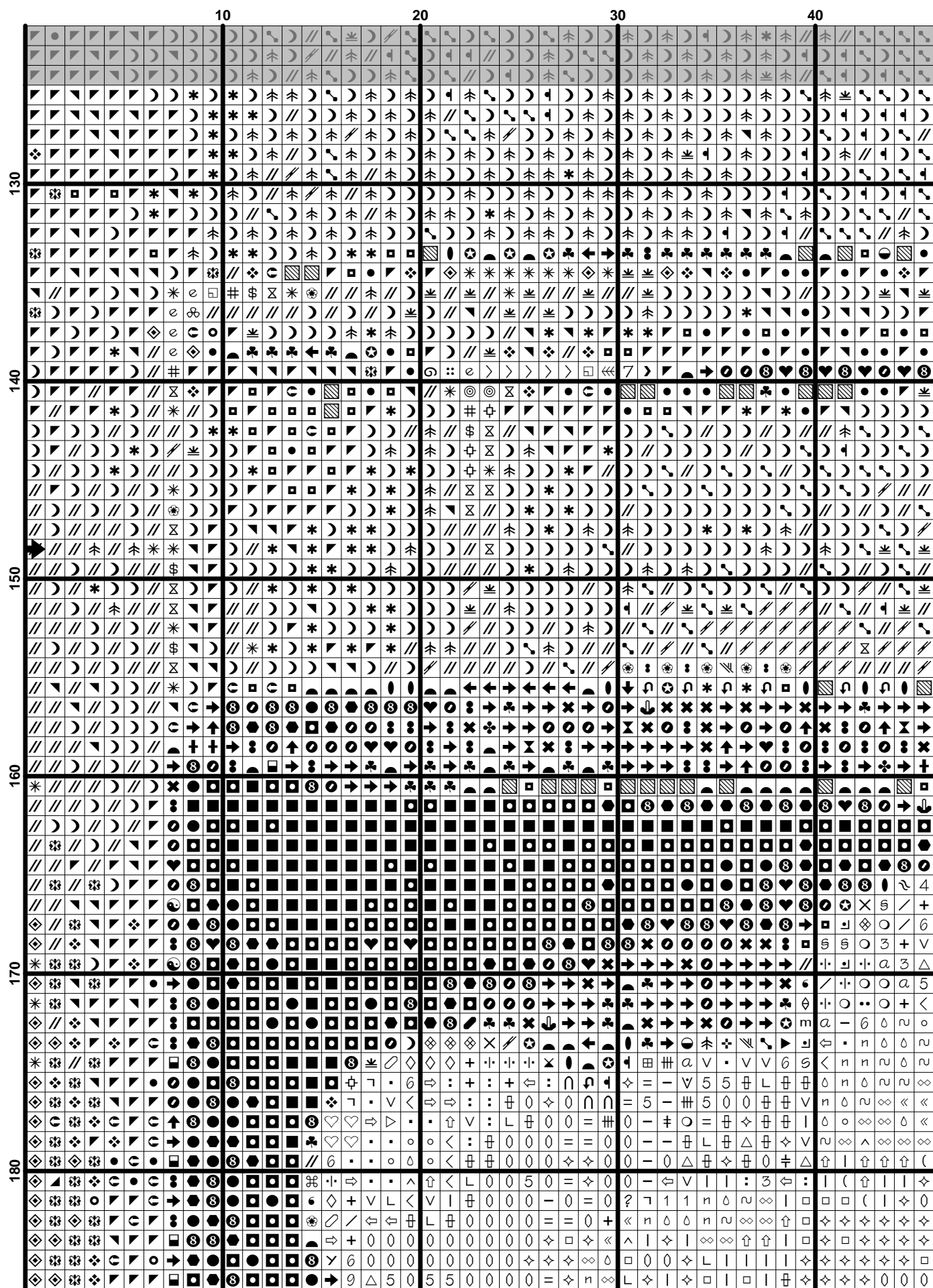
$$(21) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (22)$$

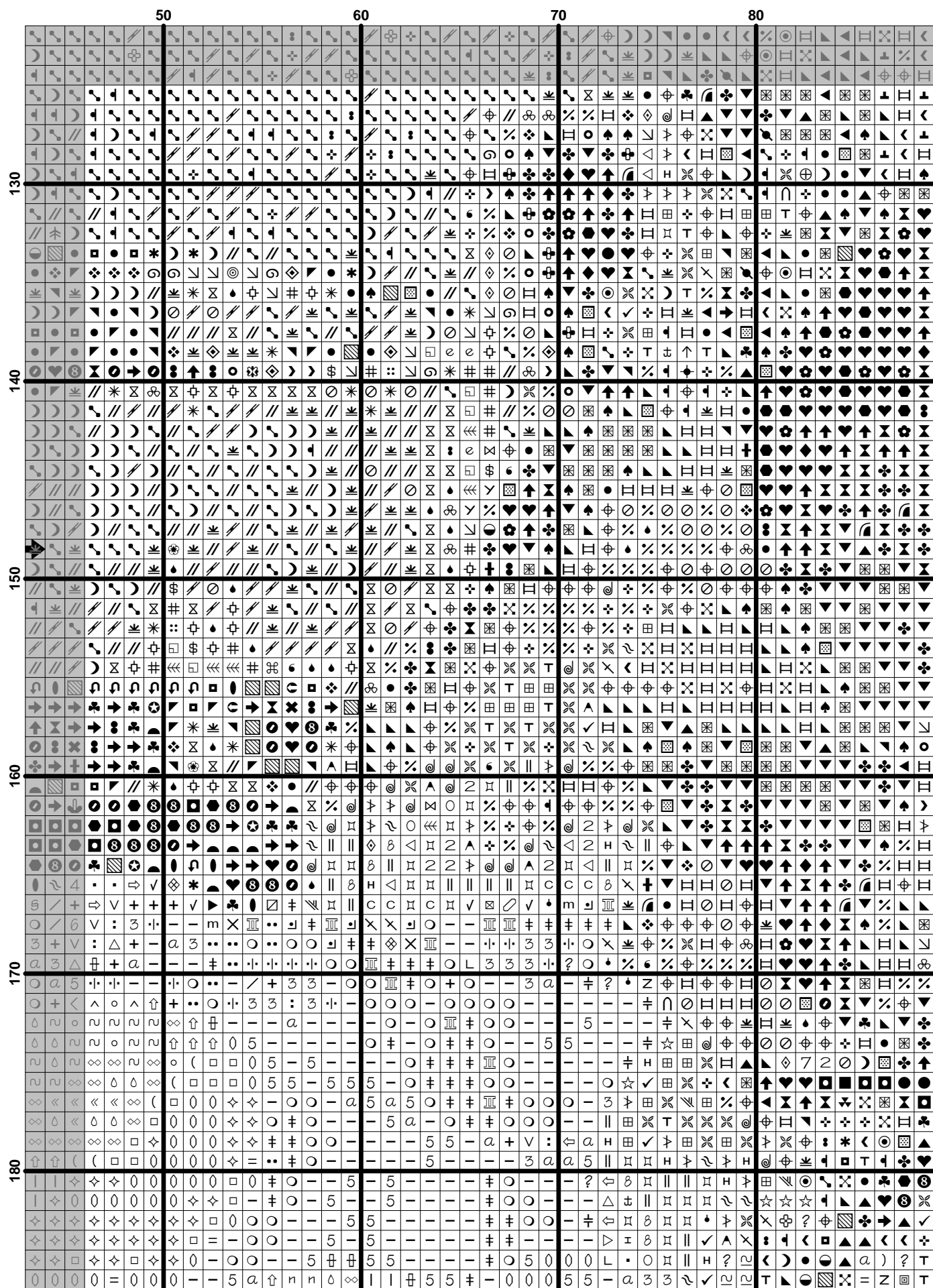
$$(22) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (23)$$

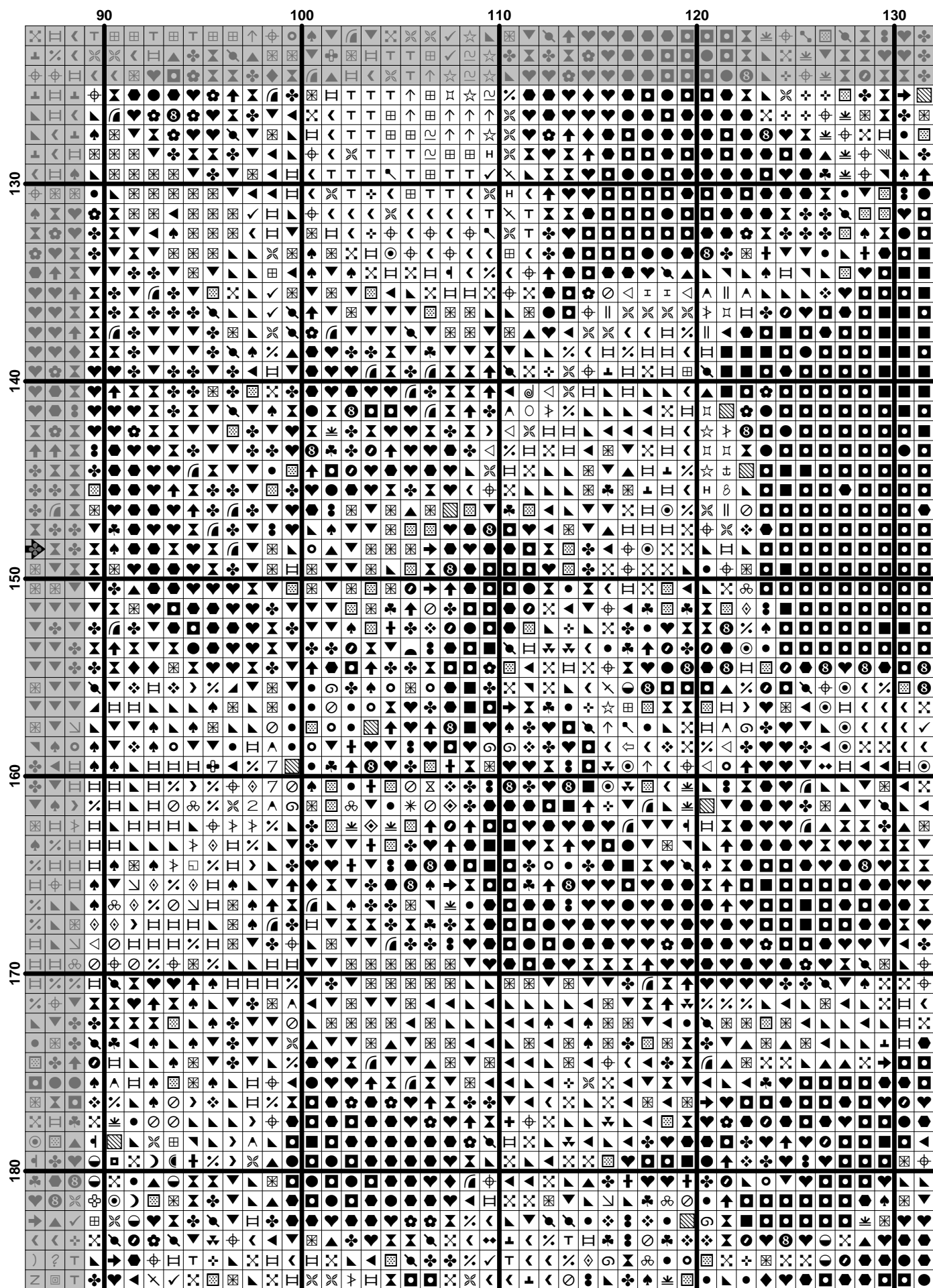


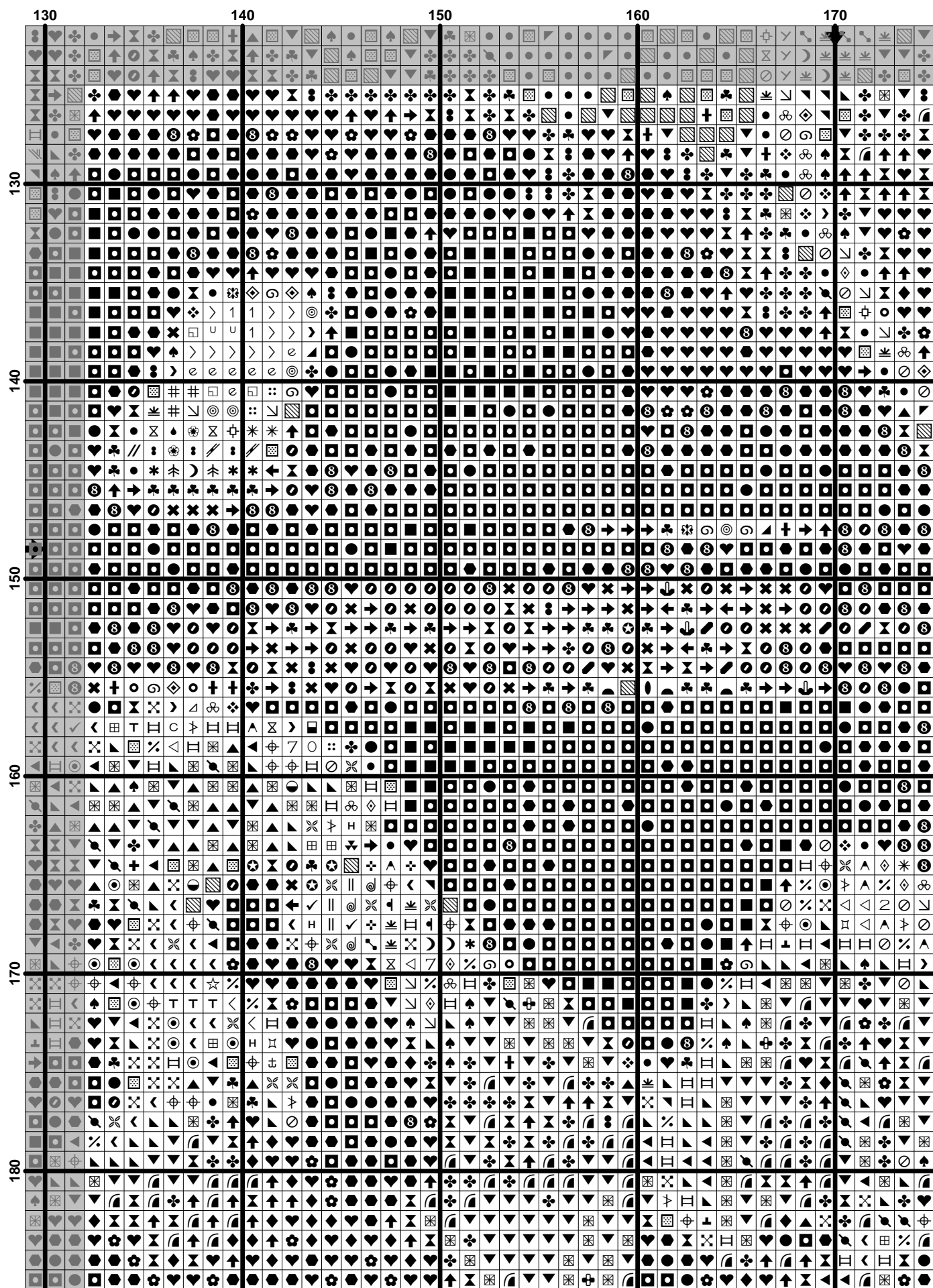
[illegible]

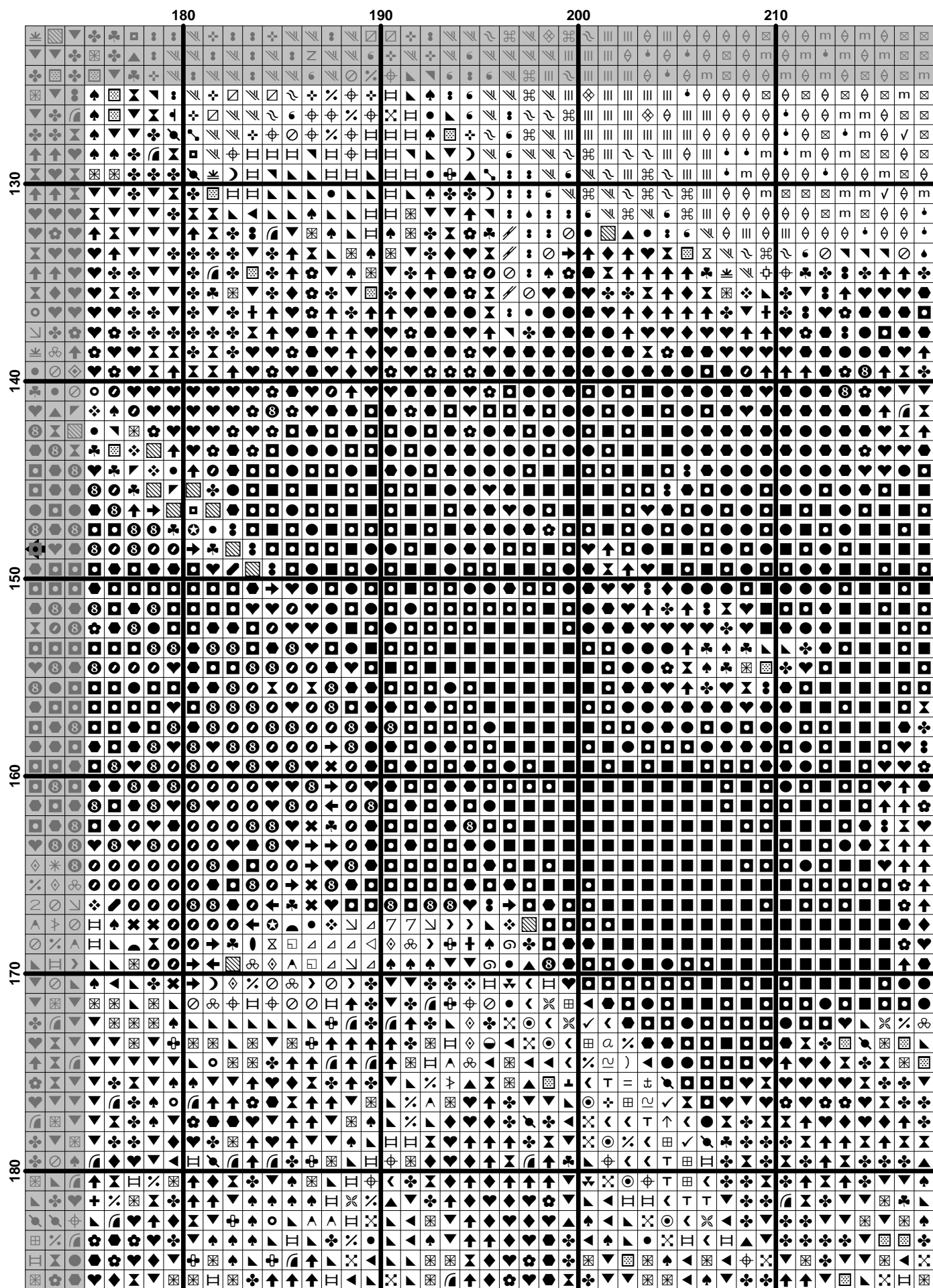
(24)



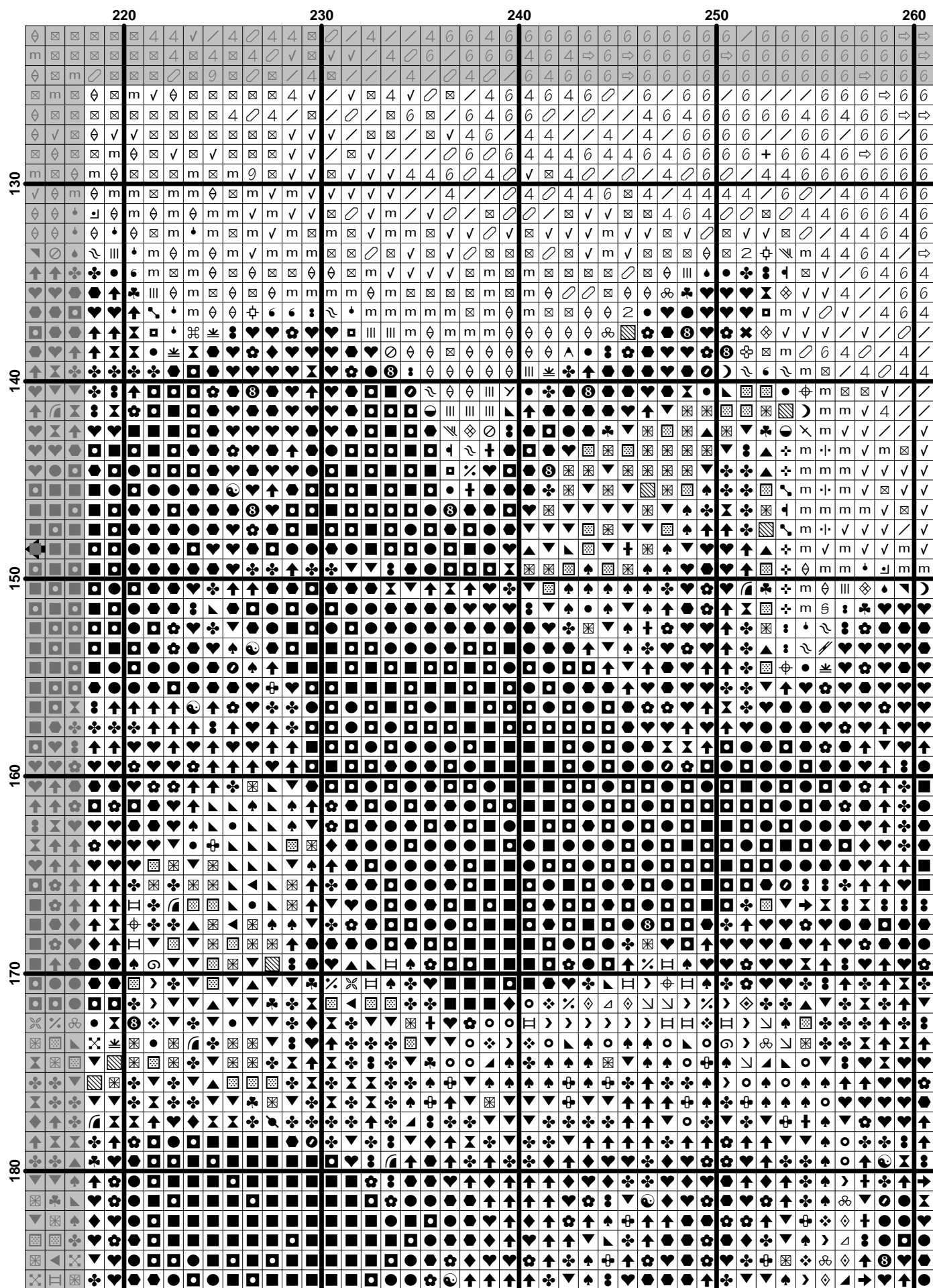






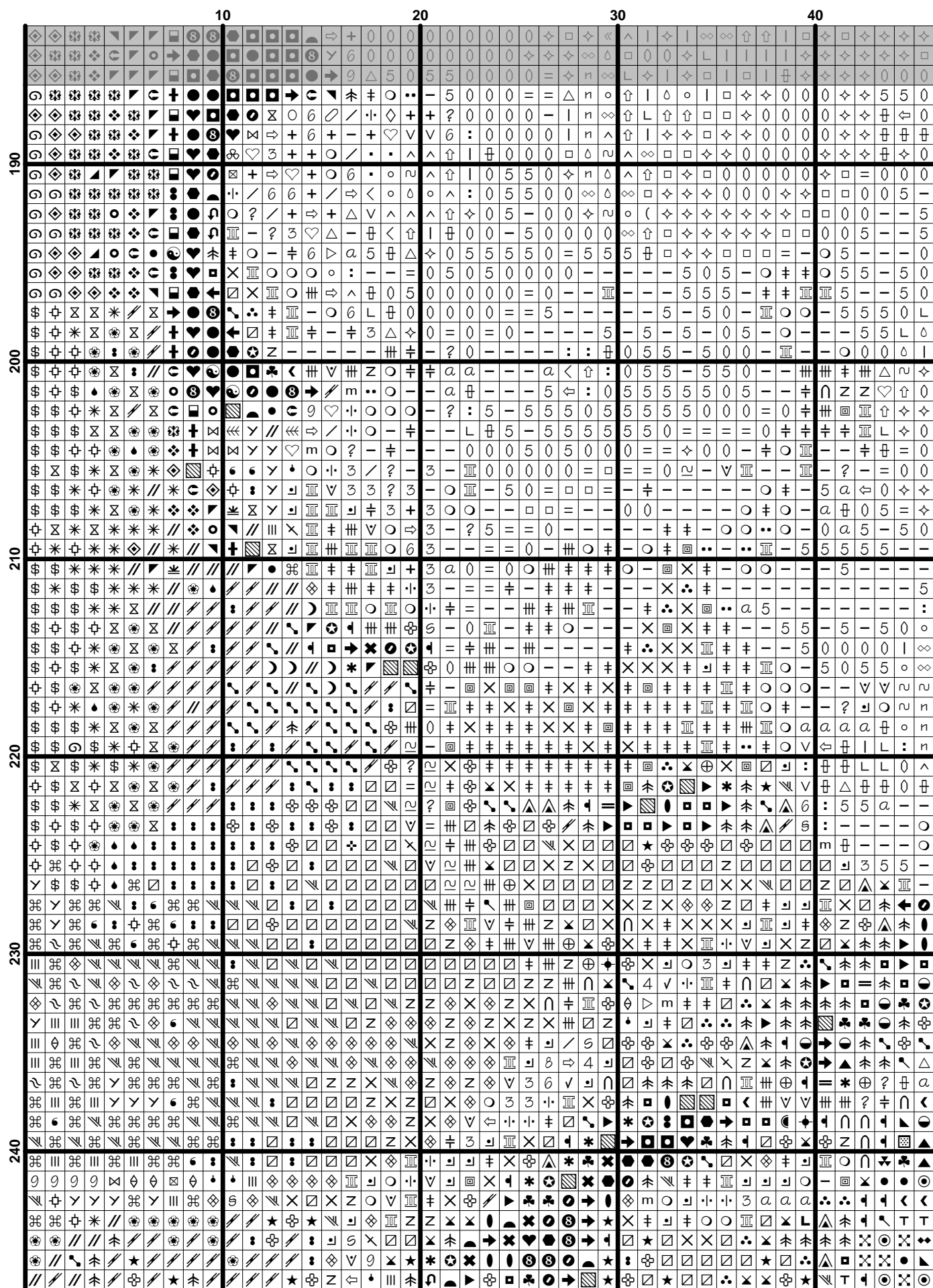


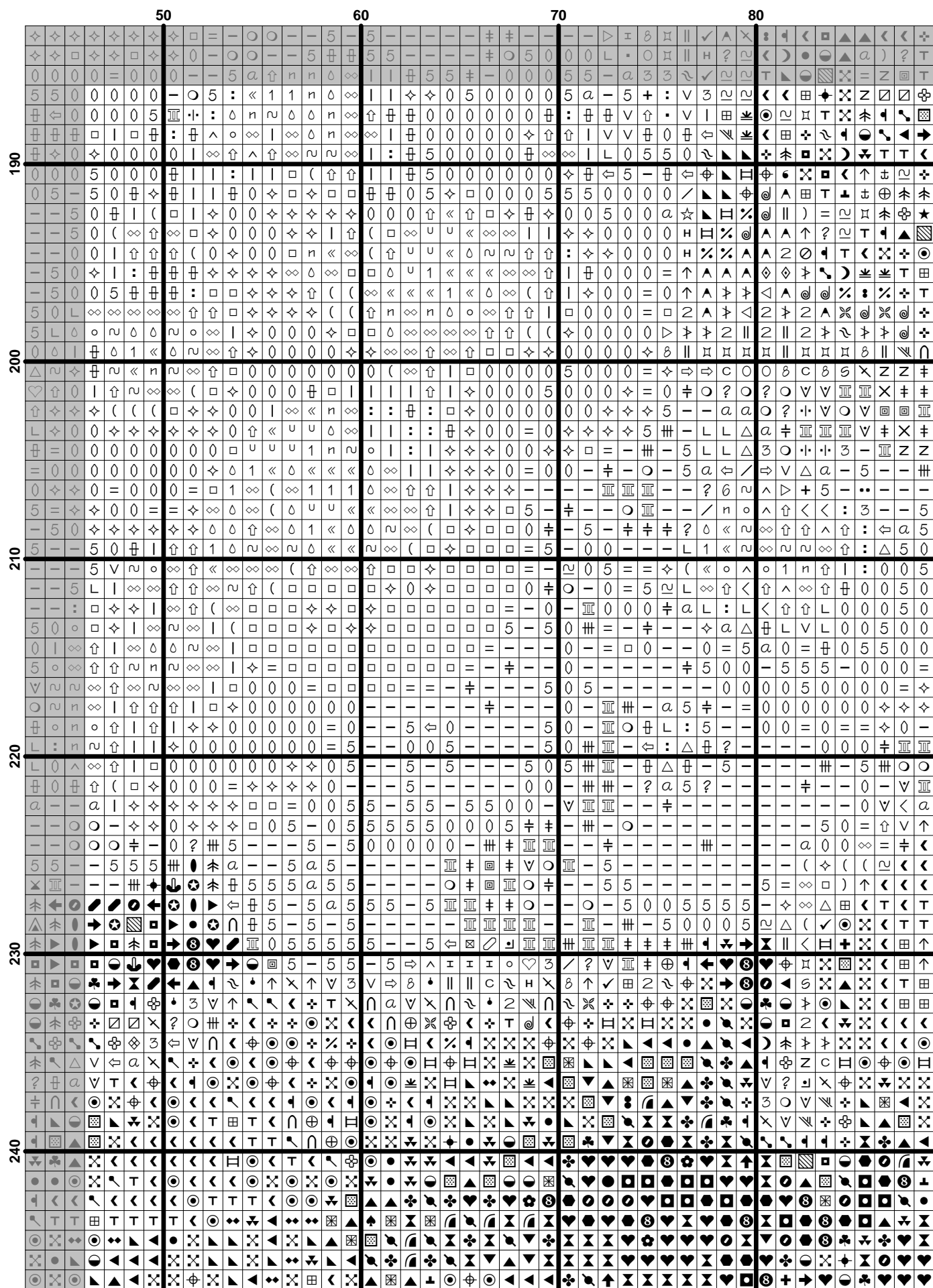


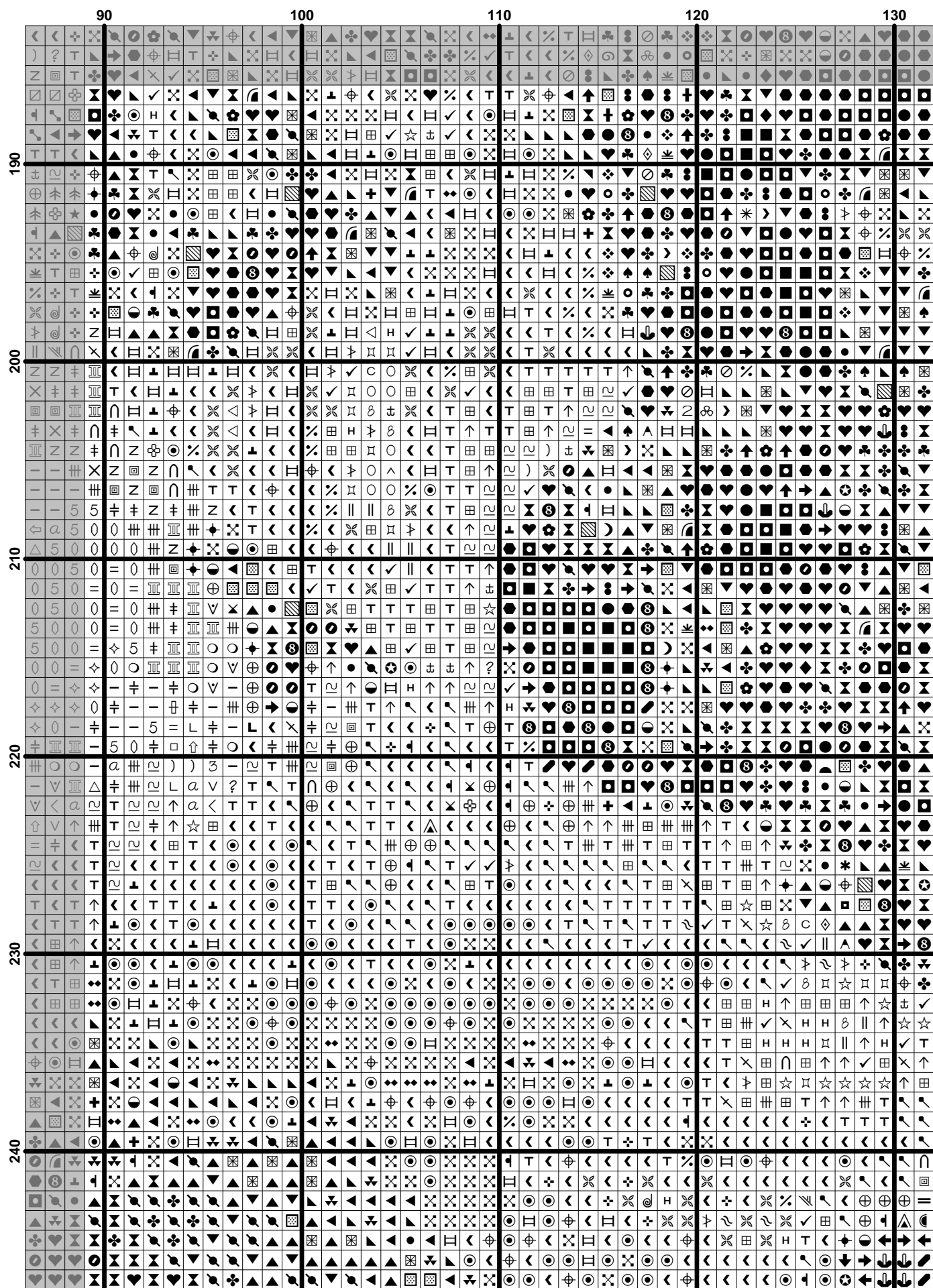


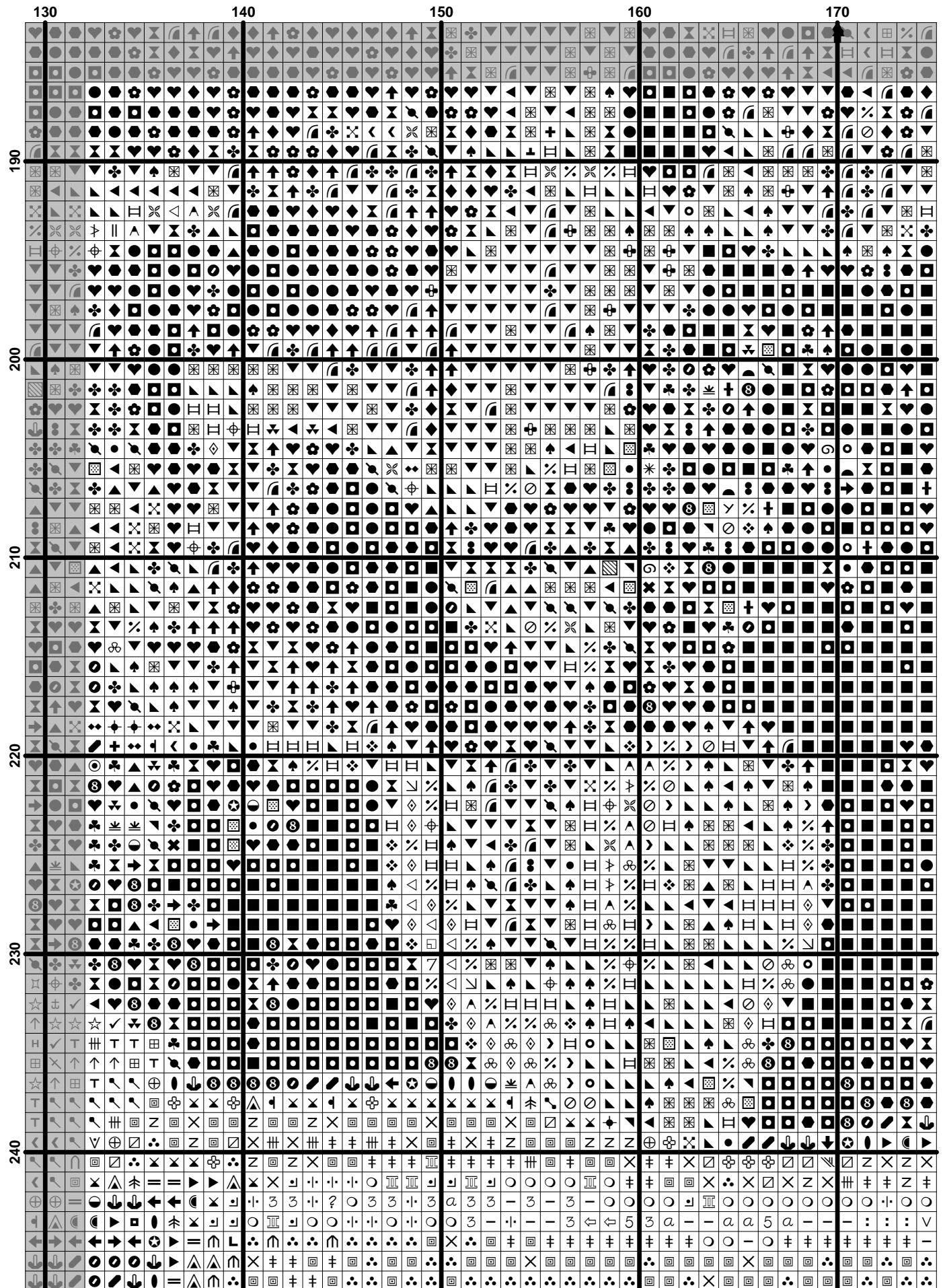
$$(31) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

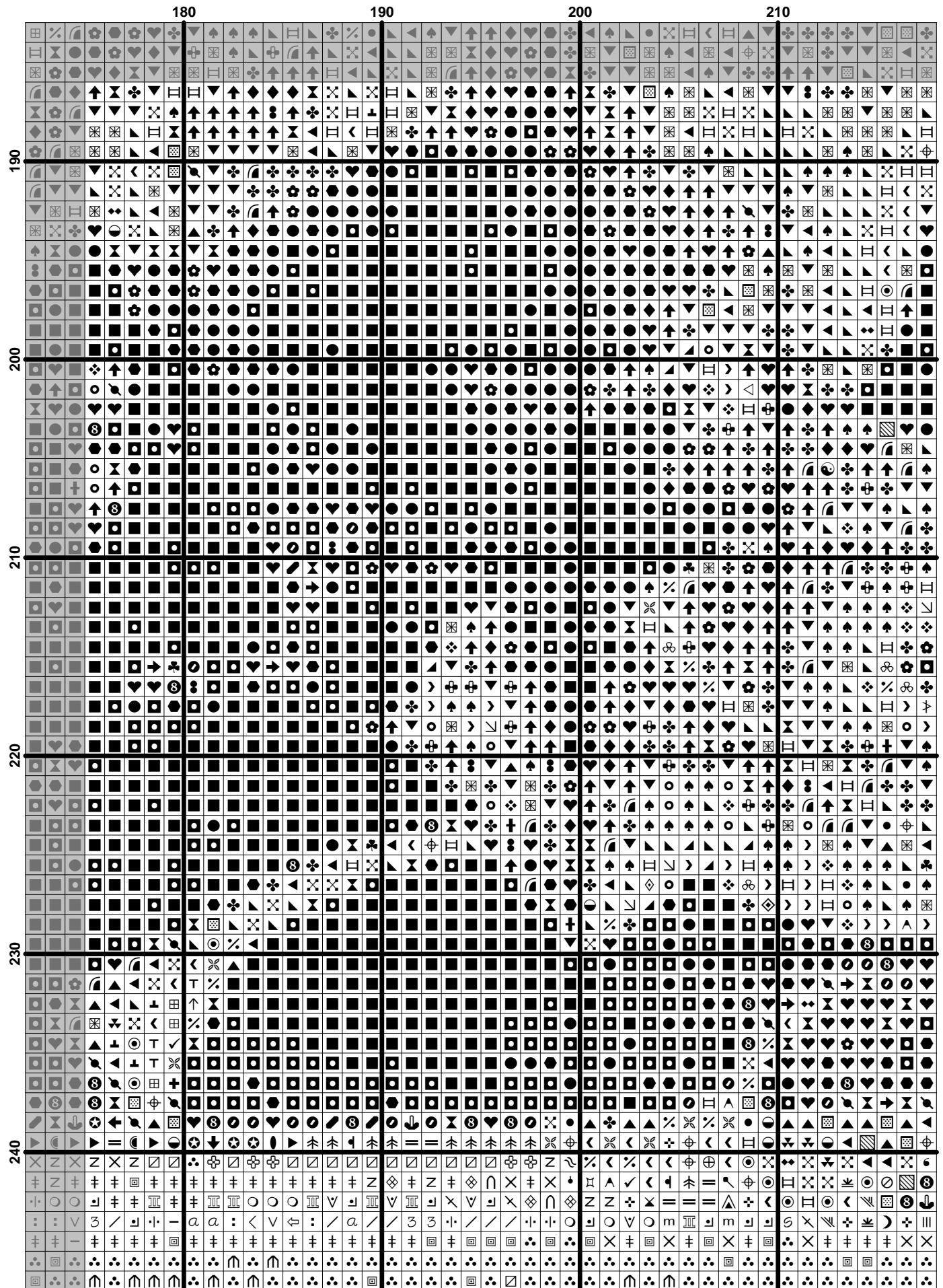
(32)



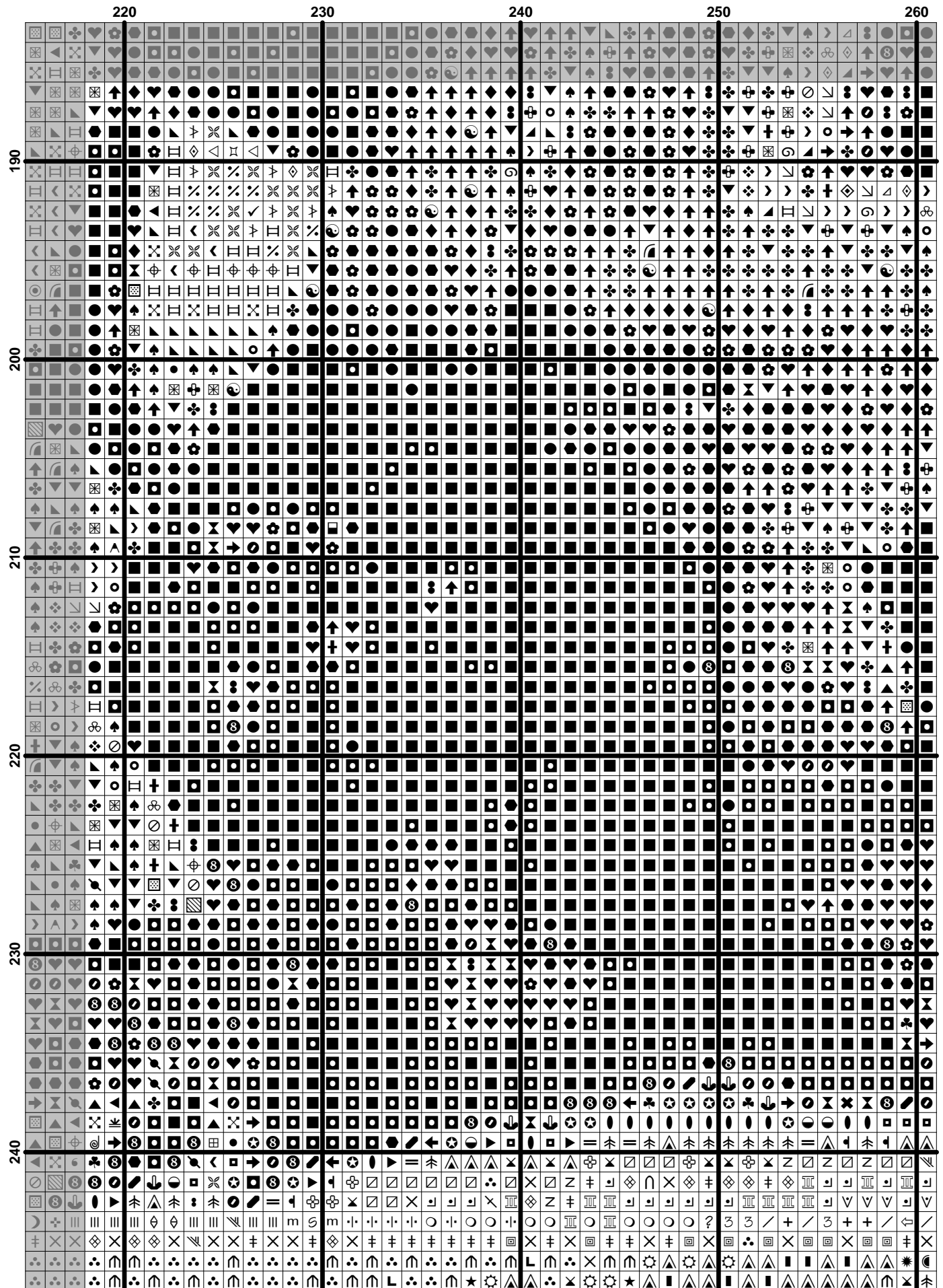


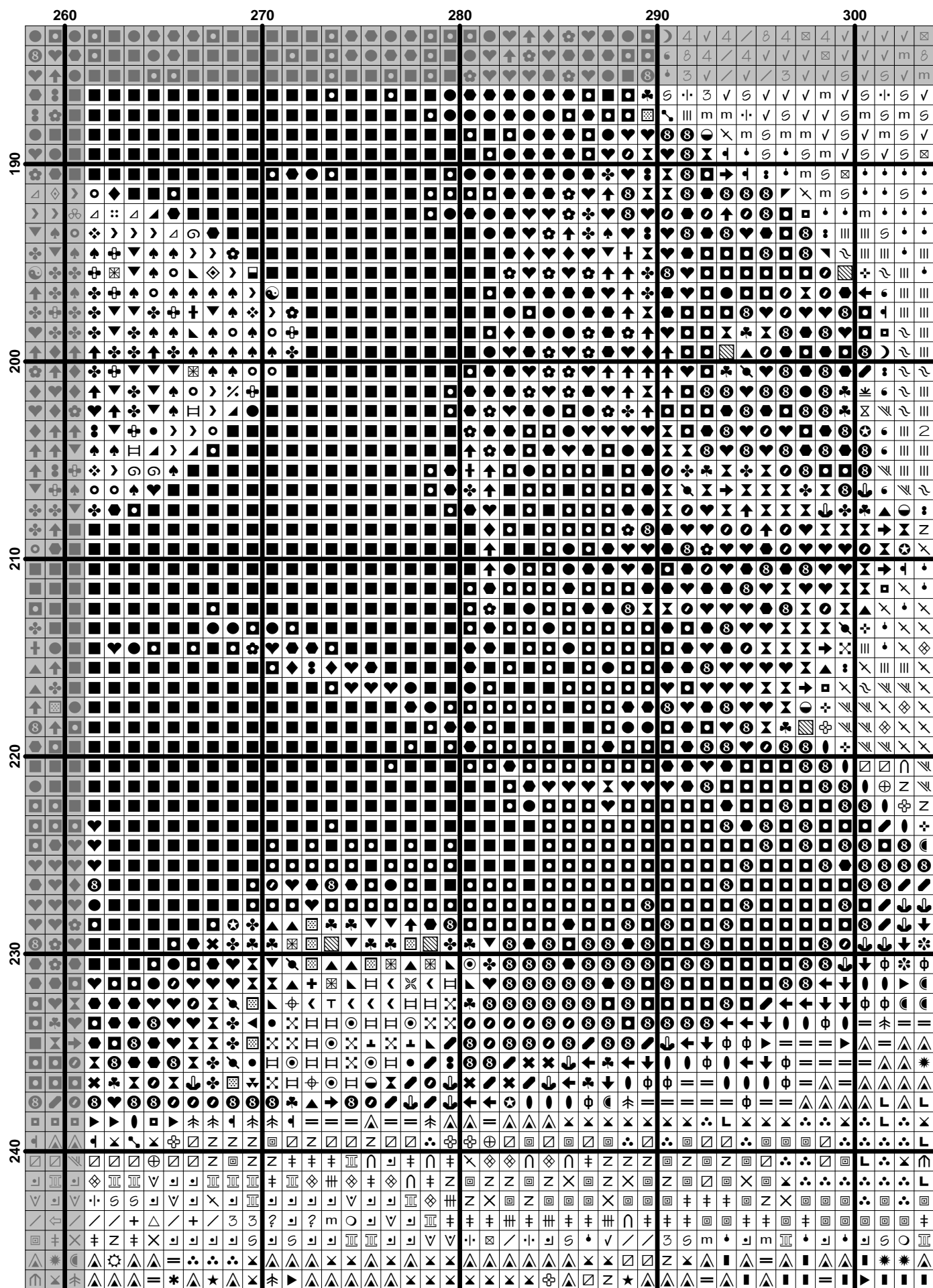


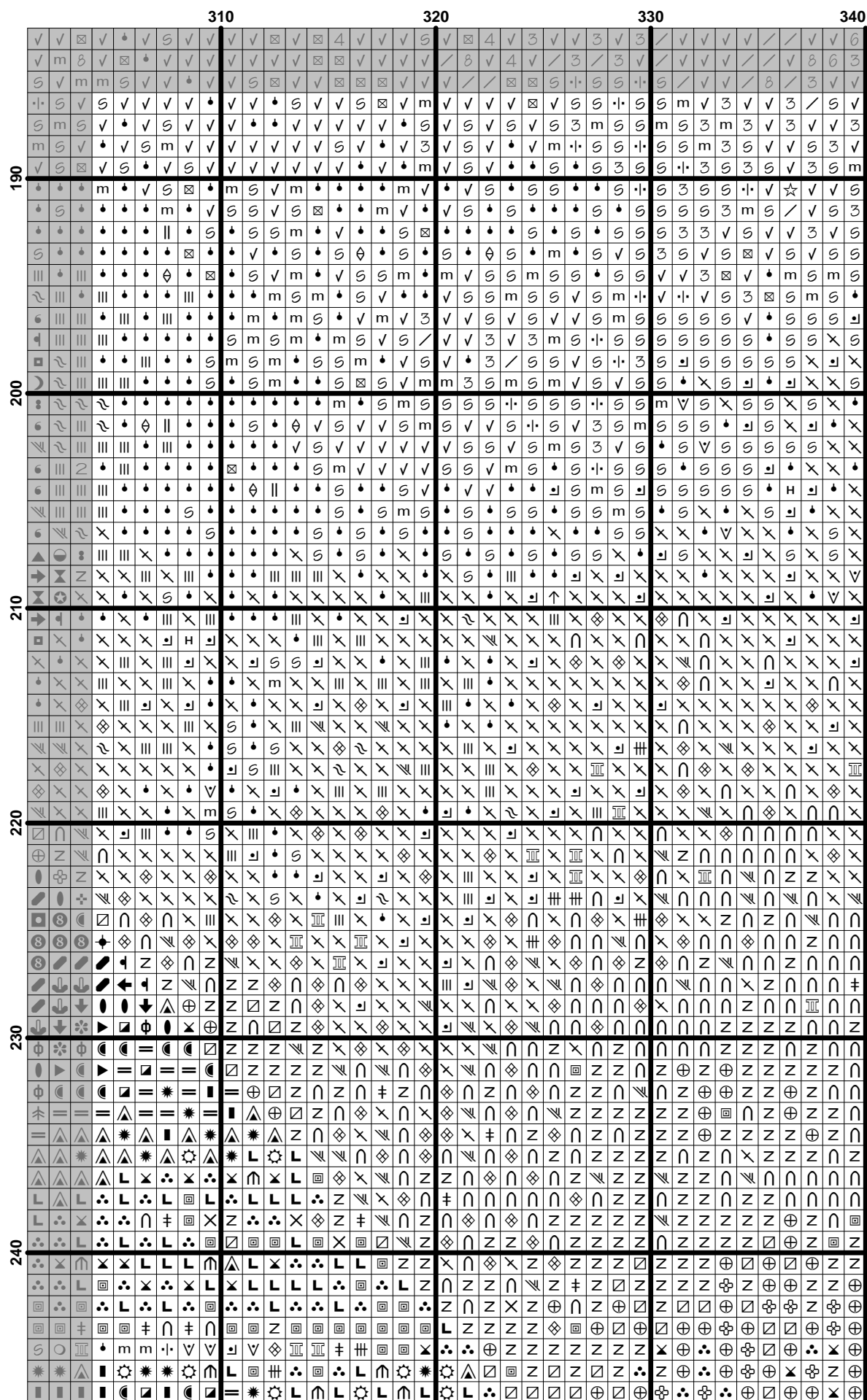


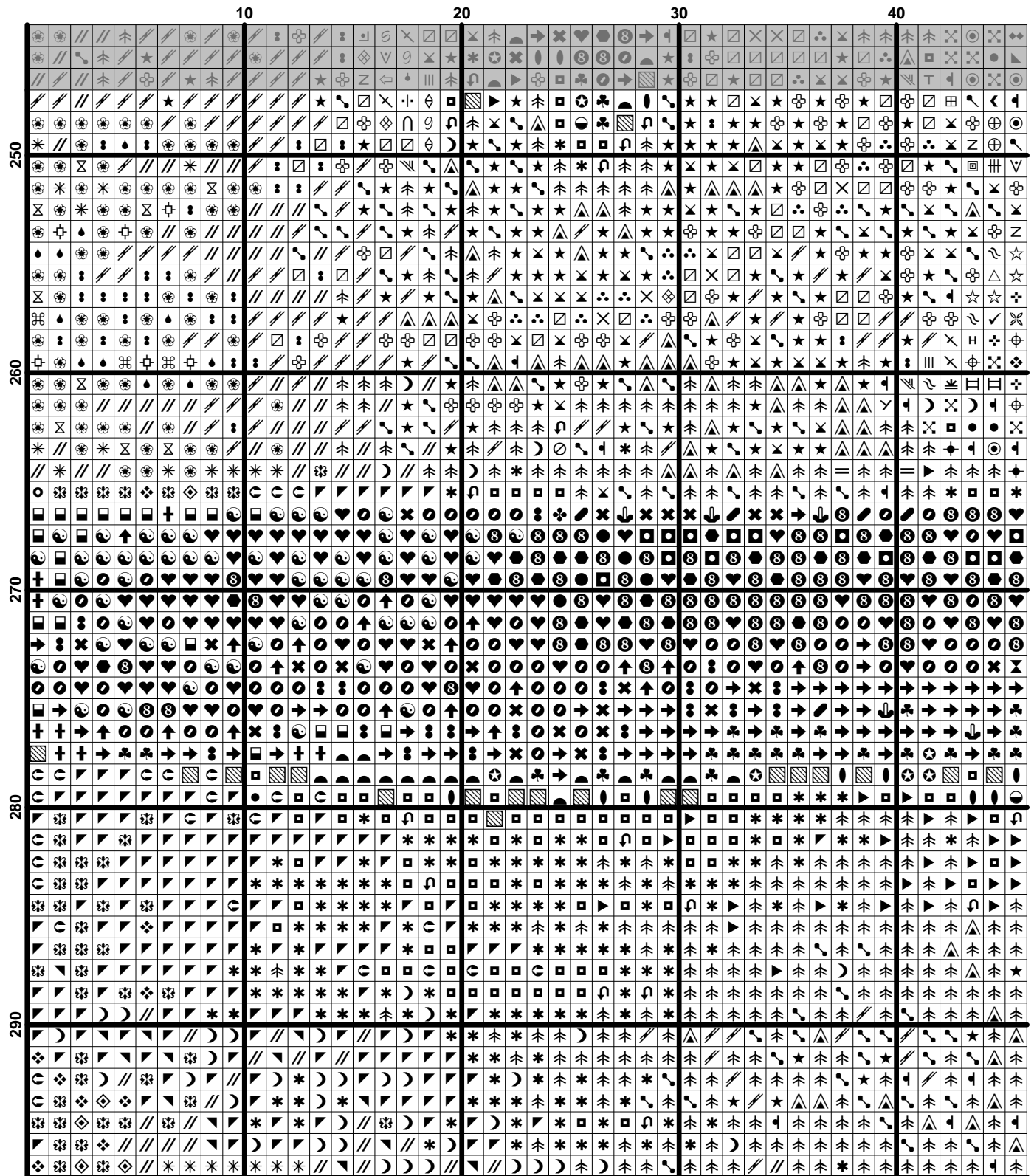












[illegible]

