

1523 Young Italian Girl by the Well (small)



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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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Stitch Count	
Horizontal:	250
Vertical:	314

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:	46	17.83	57	22.33	40	15.6	50	19.54	36	13.875	45	17.375
Including Margins:	62	24	73	29	56	22	66	26	52	20	61	24
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	64	24.96	79	31.26	53	20.8	66	26.05	26	10.4	33	13.02
Including Margins:	80	31	95	38	69	27	82	33	42	17	49	20
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	25	9.98	31	12.5	24	9.6	30	12.02	23	9.24	29	11.57
Including Margins:	41	16	47	19	40	16	46	19	39	16	45	18
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	23	8.91	28	11.16	21	8.32	26	10.42	20	7.8	24	9.76
Including Margins:	39	15	44	18	37	15	42	17	36	14	40	16

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

Symbol	DMC	Name
◊	225	Shell Pink-UL VY LT
⚡	317	Pewter Gray
III	318	Steel Gray-LT
●	355	Terra Cotta-DK
○	356	Terra Cotta-MD
◆	370	Mustard-MD
↘	371	Mustard
↘	407	Desert Sand-DK
▨	413	Pewter Gray-DK
↘	414	Steel Gray-DK
⌘	415	Pearl Gray
★	420	Hazelnut Brown-DK
√	422	Hazelnut Brown-LT
⋯	435	Brown-VY LT
III	436	Tan
☆	437	Tan-LT
↘	451	Shell Gray-DK
⊕	452	Shell Gray-MD
○	453	Shell Gray-LT
=	610	Drab Brown-DK
//	611	Drab Brown
◎	612	Drab Brown-LT
⌘	632	Desert Sand-UL VY DK
L	640	Beige Gray-VY DK
♦♦	645	Beaver Gray-VY DK
1	712	Cream
e	738	Tan-VY LT
<	739	Tan-UL VY LT
▷	754	Peach-LT
⊗	758	Terra Cotta-VY LT
☑	801	Coffee Brown-DK
u	819	Baby Pink-LT
	822	Beige Gray-LT
✕	838	Beige Brown-VY DK
⊗	839	Beige Brown-DK
⊗	841	Beige Brown-LT
a	842	Beige Brown-VY LT
●	938	Coffee Brown-UL DK
○	945	Tawny
∞	948	Peach-VY LT
:	950	Desert Sand-LT
^	951	Tawny-LT
■	3021	Brown Gray-VY DK
☞	3032	Mocha Brown-MD
↻	3045	Yellow Beige-DK
◀	3721	Shell Pink-DK
◊	3743	Antique Violet-VY LT
«	3770	Tawny-VY LT
⚡	3772	Desert Sand-VY DK
)	3774	Desert Sand-VY LT
⚡	3776	Mahogany-LT
^	3778	Terra Cotta-LT
↔	3779	Terra Cotta-UL VY LT

☾	3787	Brown Gray-DK
✕	3790	Beige Gray-UL DK
☾	3799	Pewter Gray-VY DK
⌘	3828	Hazelnut Brown
☾	3830	Terra Cotta-MD
⊕	3856	Mahogany-UL VY LT
⊕	3858	Rosewood-MD
⊕	3859	Rosewood-LT
⊕	3861	Cocoa-LT
⊕	3862	Mocha Beige-DK
⊕	3863	Mocha Beige-MD
•	3864	Mocha Beige-LT
◦	3866	Mocha Brown-UL VY LT

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

Symbol	DMC1	Name1	DMC2	Name2
☾	224	Shell Pink-VY LT	452	Shell Gray-MD
◇	224	Shell Pink-VY LT	842	Beige Brown-VY LT
β	224	Shell Pink-VY LT	3856	Mahogany-UL VY LT
~	225	Shell Pink-UL VY LT	948	Peach-VY LT
●	310	Black	938	Coffee Brown-UL DK
●	315	Antique Mauve-VY DK	839	Beige Brown-DK
+	315	Antique Mauve-VY DK	3721	Shell Pink-DK
▲	315	Antique Mauve-VY DK	3772	Desert Sand-VY DK
●	315	Antique Mauve-VY DK	3790	Beige Gray-UL DK
⌘	318	Steel Gray-LT	414	Steel Gray-DK
∇	318	Steel Gray-LT	452	Shell Gray-MD
⊢	318	Steel Gray-LT	3042	Antique Violet-LT
⊞	326	Rose-VY DK	3721	Shell Pink-DK
•	353	Peach	543	Beige Brown-UL VY LT
⊕	355	Terra Cotta-DK	3685	Mauve-DK
☾	356	Terra Cotta-MD	435	Brown-VY LT
•	356	Terra Cotta-MD	436	Tan
☾	356	Terra Cotta-MD	977	Golden Brown-LT
⊕	356	Terra Cotta-MD	3721	Shell Pink-DK
✕	356	Terra Cotta-MD	3772	Desert Sand-VY DK
⊕	356	Terra Cotta-MD	3828	Hazelnut Brown
✕	370	Mustard-MD	435	Brown-VY LT
✱	371	Mustard	640	Beige Gray-VY DK
↑	402	Mahogany-VY LT	436	Tan
m	402	Mahogany-VY LT	437	Tan-LT
••	402	Mahogany-VY LT	758	Terra Cotta-VY LT
✕	402	Mahogany-VY LT	3712	Salmon-MD
✕	407	Desert Sand-DK	356	Terra Cotta-MD
⊞	407	Desert Sand-DK	436	Tan
✕	407	Desert Sand-DK	3861	Cocoa-LT
••	407	Desert Sand-DK	3864	Mocha Beige-LT
☾	413	Pewter Gray-DK	645	Beaver Gray-VY DK
▲	413	Pewter Gray-DK	839	Beige Brown-DK
↓	413	Pewter Gray-DK	3799	Pewter Gray-VY DK
⊕	414	Steel Gray-DK	452	Shell Gray-MD
◀	414	Steel Gray-DK	3861	Cocoa-LT
／	415	Pearl Gray	453	Shell Gray-LT

	415	Pearl Gray	3042	Antique Violet-LT
⌘	422	Hazelnut Brown-LT	436	Tan
н	422	Hazelnut Brown-LT	612	Drab Brown-LT
—	422	Hazelnut Brown-LT	977	Golden Brown-LT
∪	422	Hazelnut Brown-LT	3827	Golden Brown-Pale
⌘	435	Brown-VY LT	975	Golden Brown-DK
✓	437	Tan-LT	3712	Salmon-MD
z	451	Shell Gray-DK	647	Beaver Gray-MD
☐	451	Shell Gray-DK	841	Beige Brown-LT
❖	451	Shell Gray-DK	3787	Brown Gray-DK
☐	452	Shell Gray-MD	453	Shell Gray-LT
○	452	Shell Gray-MD	927	Gray Green-LT
2	452	Shell Gray-MD	3042	Antique Violet-LT
5	452	Shell Gray-MD	3861	Cocoa-LT
9	453	Shell Gray-LT	778	Antique Mauve-VY LT
⌘	453	Shell Gray-LT	3042	Antique Violet-LT
т	612	Drab Brown-LT	3859	Rosewood-LT
■	632	Desert Sand-UL VY DK	830	Golden Olive-DK
♣	632	Desert Sand-UL VY DK	902	Garnet-VY DK
❖	632	Desert Sand-UL VY DK	3685	Mauve-DK
*	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
▲	640	Beige Gray-VY DK	3860	Cocoa
☐	645	Beaver Gray-VY DK	839	Beige Brown-DK
♠	645	Beaver Gray-VY DK	844	Beaver Brown-UL DK
5	738	Tan-VY LT	758	Terra Cotta-VY LT
=	754	Peach-LT	613	Drab Brown-VY LT
?	758	Terra Cotta-VY LT	437	Tan-LT
☐	758	Terra Cotta-VY LT	3778	Terra Cotta-LT
3	758	Terra Cotta-VY LT	3825	Pumpkin-Pale
n	819	Baby Pink-LT	225	Shell Pink-UL VY LT
(822	Beige Gray-LT	963	Dusty Rose-UL VY LT
♡	822	Beige Gray-LT	3743	Antique Violet-VY LT
←	838	Beige Brown-VY DK	839	Beige Brown-DK
↓	838	Beige Brown-VY DK	902	Garnet-VY DK
☐	838	Beige Brown-VY DK	934	Black Avocado Green
◆	838	Beige Brown-VY DK	938	Coffee Brown-UL DK
⑤	838	Beige Brown-VY DK	939	Navy Blue-VY DK
♥	838	Beige Brown-VY DK	3371	Black Brown
↑	838	Beige Brown-VY DK	3799	Pewter Gray-VY DK
⋮	838	Beige Brown-VY DK	3802	Antique Mauve-VY DK
▼	839	Beige Brown-DK	844	Beaver Brown-UL DK
►	839	Beige Brown-DK	3790	Beige Gray-UL DK
☐	839	Beige Brown-DK	3802	Antique Mauve-VY DK
☐	839	Beige Brown-DK	3862	Mocha Beige-DK
◎	840	Beige Brown-MD	3772	Desert Sand-VY DK
#	841	Beige Brown-LT	3864	Mocha Beige-LT
☐	844	Beaver Brown-UL DK	535	Ash Gray-VY LT
♣	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
✱	921	Copper	326	Rose-VY DK
⌘	926	Gray Green-MD	3041	Antique Violet-MD
≡	927	Gray Green-LT	3861	Cocoa-LT
■	934	Black Avocado Green	939	Navy Blue-VY DK
☐	938	Coffee Brown-UL DK	939	Navy Blue-VY DK
●	938	Coffee Brown-UL DK	3371	Black Brown
✕	938	Coffee Brown-UL DK	3799	Pewter Gray-VY DK
L	948	Peach-VY LT	3854	Autumn Gold-MD
□	951	Tawny-LT	754	Peach-LT
⌘	963	Dusty Rose-UL VY LT	3866	Mocha Brown-UL VY LT
⌘	977	Golden Brown-LT	3778	Terra Cotta-LT

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●	3021	Brown Gray-VY DK	413	Pewter Gray-DK
➔	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
::	3042	Antique Violet-LT	648	Beaver Gray-LT
✓	3042	Antique Violet-LT	927	Gray Green-LT
◇	3328	Salmon-DK	921	Copper
⌘	3328	Salmon-DK	977	Golden Brown-LT
⌘	3328	Salmon-DK	3830	Terra Cotta-MD
⊛	3371	Black Brown	3799	Pewter Gray-VY DK
▲	3721	Shell Pink-DK	3772	Desert Sand-VY DK
▼	3721	Shell Pink-DK	3830	Terra Cotta-MD
⊕	3776	Mahogany-LT	3328	Salmon-DK
⌘	3776	Mahogany-LT	3830	Terra Cotta-MD
⊞	3778	Terra Cotta-LT	356	Terra Cotta-MD
7	3782	Mocha Brown-LT	738	Tan-VY LT
⊙	3790	Beige Gray-UL DK	3802	Antique Mauve-VY DK
△	3822	Straw-LT	3825	Pumpkin-Pale
●	3830	Terra Cotta-MD	975	Golden Brown-DK
4	3856	Mahogany-UL VY LT	352	Coral-LT
+	3856	Mahogany-UL VY LT	738	Tan-VY LT
⊞	3859	Rosewood-LT	3863	Mocha Beige-MD
➤	3861	Cocoa-LT	451	Shell Gray-DK
⊕	3861	Cocoa-LT	3041	Antique Violet-MD

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	
224	Shell Pink-VY LT	214	84	204	80	183	72
225	Shell Pink-UL VY LT	242	95	230	90	207	81
310	Black	76	29	72	28	65	25
315	Antique Mauve-VY DK	168	66	160	62	144	56
317	Pewter Gray	59	23	56	22	51	20
318	Steel Gray-LT	187	73	178	70	160	62
326	Rose-VY DK	40	15	38	14	34	13
352	Coral-LT	8	3	7	2	6	2
353	Peach	46	18	43	16	39	15
355	Terra Cotta-DK	66	25	63	24	56	22
356	Terra Cotta-MD	304	119	289	113	260	102
370	Mustard-MD	98	38	94	37	84	33
371	Mustard	82	32	78	30	70	27
402	Mahogany-VY LT	99	38	94	37	85	33
407	Desert Sand-DK	303	119	288	113	260	102
413	Pewter Gray-DK	436	171	415	163	373	146
414	Steel Gray-DK	576	226	548	215	494	194
415	Pearl Gray	88	34	84	33	76	29
420	Hazelnut Brown-DK	30	11	29	11	26	10
422	Hazelnut Brown-LT	186	73	177	69	159	62
435	Brown-VY LT	107	42	102	40	92	36
436	Tan	382	150	363	142	327	128
437	Tan-LT	206	81	196	77	176	69
451	Shell Gray-DK	241	94	229	90	206	81
452	Shell Gray-MD	1668	656	1589	625	1430	562
453	Shell Gray-LT	564	222	537	211	483	190
535	Ash Gray-VY LT	37	14	35	13	32	12
543	Beige Brown-UL VY LT	46	18	43	16	39	15
610	Drab Brown-DK	40	15	38	14	34	13
611	Drab Brown	70	27	67	26	60	23
612	Drab Brown-LT	274	107	260	102	234	92
613	Drab Brown-VY LT	47	18	45	17	40	15
632	Desert Sand-UL VY DK	353	138	336	132	303	119
640	Beige Gray-VY DK	121	47	115	45	104	40
645	Beaver Gray-VY DK	152	59	145	57	130	51
647	Beaver Gray-MD	43	16	40	15	36	14
648	Beaver Gray-LT	187	73	178	70	160	62
712	Cream	107	42	102	40	92	36
738	Tan-VY LT	180	70	172	67	154	60
739	Tan-UL VY LT	27	10	26	10	23	9
754	Peach-LT	76	29	73	28	65	25
758	Terra Cotta-VY LT	187	73	178	70	160	62
778	Antique Mauve-VY LT	79	31	75	29	68	26
801	Coffee Brown-DK	10	3	9	3	8	3
819	Baby Pink-LT	559	220	533	209	479	188
822	Beige Gray-LT	254	100	242	95	217	85
830	Golden Olive-DK	7	2	6	2	6	2
838	Beige Brown-VY DK	1421	559	1353	532	1218	479
839	Beige Brown-DK	595	234	567	223	510	200
840	Beige Brown-MD	84	33	80	31	72	28
841	Beige Brown-LT	112	44	107	42	96	37
842	Beige Brown-VY LT	166	65	158	62	142	55
844	Beaver Brown-UL DK	323	127	307	120	277	109

902	Garnet-VY DK	166	65	158	62	142	55
921	Copper	51	20	49	19	44	17
926	Gray Green-MD	13	5	12	4	11	4
927	Gray Green-LT	263	103	250	98	225	88
934	Black Avocado Green	14	5	13	5	12	4
938	Coffee Brown-UL DK	722	284	688	270	619	243
939	Navy Blue-VY DK	545	214	519	204	467	183
945	Tawny	57	22	54	21	48	18
948	Peach-VY LT	139	54	132	51	119	46
950	Desert Sand-LT	80	31	77	30	69	27
951	Tawny-LT	65	25	61	24	55	21
963	Dusty Rose-UL VY LT	117	46	112	44	100	39
975	Golden Brown-DK	33	12	32	12	29	11
977	Golden Brown-LT	116	45	111	43	100	39
3021	Brown Gray-VY DK	241	94	229	90	206	81
3031	Mocha Brown-VY DK	9	3	9	3	8	3
3032	Mocha Brown-MD	57	22	54	21	49	19
3041	Antique Violet-MD	56	22	54	21	48	18
3042	Antique Violet-LT	1002	394	954	375	859	338
3045	Yellow Beige-DK	67	26	64	25	57	22
3328	Salmon-DK	154	60	147	57	132	51
3371	Black Brown	151	59	144	56	129	50
3685	Mauve-DK	119	46	114	44	102	40
3712	Salmon-MD	64	25	61	24	55	21
3721	Shell Pink-DK	245	96	233	91	210	82
3743	Antique Violet-VY LT	143	56	136	53	122	48
3770	Tawny-VY LT	333	131	317	124	285	112
3772	Desert Sand-VY DK	457	179	436	171	392	154
3774	Desert Sand-VY LT	75	29	72	28	65	25
3776	Mahogany-LT	80	31	76	29	68	26
3778	Terra Cotta-LT	116	45	111	43	100	39
3779	Terra Cotta-UL VY LT	13	5	12	4	11	4
3782	Mocha Brown-LT	50	19	47	18	43	16
3787	Brown Gray-DK	40	15	38	14	34	13
3790	Beige Gray-UL DK	272	107	259	101	233	91
3799	Pewter Gray-VY DK	996	392	948	373	853	335
3802	Antique Mauve-VY DK	351	138	334	131	301	118
3822	Straw-LT	4	1	3	1	3	1
3825	Pumpkin-Pale	24	9	23	9	21	8
3827	Golden Brown-Pale	17	6	17	6	15	5
3828	Hazelnut Brown	196	77	187	73	168	66
3830	Terra Cotta-MD	172	67	164	64	148	58
3854	Autumn Gold-MD	12	4	12	4	11	4
3856	Mahogany-UL VY LT	103	40	98	38	88	34
3858	Rosewood-MD	136	53	130	51	117	46
3859	Rosewood-LT	264	103	252	99	226	88
3860	Cocoa	35	13	34	13	30	11
3861	Cocoa-LT	744	292	709	279	638	251
3862	Mocha Beige-DK	298	117	284	111	256	100
3863	Mocha Beige-MD	273	107	260	102	234	92
3864	Mocha Beige-LT	252	99	240	94	216	85
3866	Mocha Brown-UL VY LT	66	25	63	24	57	22

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	

224	Shell Pink-VY LT	329	130	275	108	137	54
225	Shell Pink-UL VY LT	373	146	311	122	155	61
310	Black	117	45	98	38	49	19
315	Antique Mauve-VY DK	259	101	216	84	108	42
317	Pewter Gray	92	36	77	30	38	15
318	Steel Gray-LT	288	112	240	93	120	47
326	Rose-VY DK	61	23	51	20	26	10
352	Coral-LT	11	4	9	3	5	2
353	Peach	70	27	59	23	29	11
355	Terra Cotta-DK	101	40	84	33	42	17
356	Terra Cotta-MD	468	184	390	153	195	77
370	Mustard-MD	151	59	126	50	63	25
371	Mustard	126	49	105	41	53	20
402	Mahogany-VY LT	153	59	128	50	64	25
407	Desert Sand-DK	468	184	390	153	195	77
413	Pewter Gray-DK	671	263	560	219	280	110
414	Steel Gray-DK	889	349	741	291	371	146
415	Pearl Gray	137	52	114	44	57	22
420	Hazelnut Brown-DK	47	18	39	15	20	8
422	Hazelnut Brown-LT	286	112	239	93	119	47
435	Brown-VY LT	166	65	138	54	69	27
436	Tan	589	230	491	192	245	96
437	Tan-LT	317	124	264	104	132	52
451	Shell Gray-DK	371	146	309	122	155	61
452	Shell Gray-MD	2574	1012	2145	843	1073	422
453	Shell Gray-LT	869	342	725	285	362	143
535	Ash Gray-VY LT	58	22	48	18	24	9
543	Beige Brown-UL VY LT	70	27	59	23	29	11
610	Drab Brown-DK	61	23	51	20	26	10
611	Drab Brown	108	41	90	35	45	17
612	Drab Brown-LT	421	166	351	138	176	69
613	Drab Brown-VY LT	72	27	60	23	30	11
632	Desert Sand-UL VY DK	545	214	455	179	227	89
640	Beige Gray-VY DK	187	72	156	60	78	30
645	Beaver Gray-VY DK	234	92	195	77	98	38
647	Beaver Gray-MD	65	25	54	21	27	11
648	Beaver Gray-LT	288	112	240	93	120	47
712	Cream	166	65	138	54	69	27
738	Tan-VY LT	277	108	231	90	116	45
739	Tan-UL VY LT	41	16	35	14	17	7
754	Peach-LT	117	45	98	38	49	19
758	Terra Cotta-VY LT	288	112	240	93	120	47
778	Antique Mauve-VY LT	122	47	102	39	51	20
801	Coffee Brown-DK	14	5	12	5	6	2
819	Baby Pink-LT	862	338	719	282	359	141
822	Beige Gray-LT	391	153	326	128	163	64
830	Golden Olive-DK	11	4	9	3	5	2
838	Beige Brown-VY DK	2192	862	1827	719	914	359
839	Beige Brown-DK	918	360	765	300	383	150
840	Beige Brown-MD	130	50	108	42	54	21
841	Beige Brown-LT	173	67	144	56	72	28
842	Beige Brown-VY LT	256	99	213	83	107	41
844	Beaver Brown-UL DK	499	196	416	164	208	82
902	Garnet-VY DK	256	99	213	83	107	41
921	Copper	79	31	66	26	33	13
926	Gray Green-MD	20	7	17	6	8	3
927	Gray Green-LT	405	158	338	132	169	66
934	Black Avocado Green	22	7	18	6	9	3
938	Coffee Brown-UL DK	1114	437	929	365	464	182

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939	Navy Blue-VY DK	841	329	701	275	350	137
945	Tawny	86	32	72	27	36	14
948	Peach-VY LT	214	83	179	69	89	35
950	Desert Sand-LT	124	49	104	41	52	20
951	Tawny-LT	99	38	83	32	41	16
963	Dusty Rose-UL VY LT	180	70	150	59	75	29
975	Golden Brown-DK	52	20	44	17	22	8
977	Golden Brown-LT	180	70	150	59	75	29
3021	Brown Gray-VY DK	371	146	309	122	155	61
3031	Mocha Brown-VY DK	14	5	12	5	6	2
3032	Mocha Brown-MD	88	34	74	29	37	14
3041	Antique Violet-MD	86	32	72	27	36	14
3042	Antique Violet-LT	1546	608	1289	507	644	254
3045	Yellow Beige-DK	103	40	86	33	43	17
3328	Salmon-DK	238	92	198	77	99	38
3371	Black Brown	232	90	194	75	97	38
3685	Mauve-DK	184	72	153	60	77	30
3712	Salmon-MD	99	38	83	32	41	16
3721	Shell Pink-DK	378	148	315	123	158	62
3743	Antique Violet-VY LT	220	86	183	72	92	36
3770	Tawny-VY LT	513	202	428	168	214	84
3772	Desert Sand-VY DK	706	277	588	231	294	116
3774	Desert Sand-VY LT	117	45	98	38	49	19
3776	Mahogany-LT	122	47	102	39	51	20
3778	Terra Cotta-LT	180	70	150	59	75	29
3779	Terra Cotta-UL VY LT	20	7	17	6	8	3
3782	Mocha Brown-LT	77	29	65	24	32	12
3787	Brown Gray-DK	61	23	51	20	26	10
3790	Beige Gray-UL DK	419	164	350	137	175	68
3799	Pewter Gray-VY DK	1535	603	1280	503	640	251
3802	Antique Mauve-VY DK	542	212	452	177	226	89
3822	Straw-LT	5	2	5	2	2	1
3825	Pumpkin-Pale	38	14	32	12	16	6
3827	Golden Brown-Pale	27	9	23	8	11	4
3828	Hazelnut Brown	302	119	252	99	126	50
3830	Terra Cotta-MD	266	104	222	87	111	44
3854	Autumn Gold-MD	20	7	17	6	8	3
3856	Mahogany-UL VY LT	158	61	132	51	66	26
3858	Rosewood-MD	211	83	176	69	88	35
3859	Rosewood-LT	407	158	339	132	170	66
3860	Cocoa	54	20	45	17	23	8
3861	Cocoa-LT	1148	452	957	377	479	188
3862	Mocha Beige-DK	461	180	384	150	192	75
3863	Mocha Beige-MD	421	166	351	138	176	69
3864	Mocha Beige-LT	389	153	324	128	162	64
3866	Mocha Brown-UL VY LT	103	40	86	33	43	17

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
224	Shell Pink-VY LT	132	52	127	50	122	48
225	Shell Pink-UL VY LT	149	58	143	56	138	54
310	Black	47	18	45	17	43	17
315	Antique Mauve-VY DK	104	40	100	39	96	37
317	Pewter Gray	37	14	35	14	34	13
318	Steel Gray-LT	115	45	111	43	107	41

326	Rose-VY DK	24	9	24	9	23	9
352	Coral-LT	4	1	4	1	4	1
353	Peach	28	11	27	10	26	10
355	Terra Cotta-DK	40	16	39	15	37	15
356	Terra Cotta-MD	187	73	180	71	173	68
370	Mustard-MD	60	24	58	23	56	22
371	Mustard	50	19	48	19	47	18
402	Mahogany-VY LT	61	24	59	23	57	22
407	Desert Sand-DK	187	73	180	71	173	68
413	Pewter Gray-DK	269	105	258	101	249	97
414	Steel Gray-DK	356	140	342	134	329	129
415	Pearl Gray	55	21	53	20	51	19
420	Hazelnut Brown-DK	19	7	18	7	17	7
422	Hazelnut Brown-LT	114	45	110	43	106	41
435	Brown-VY LT	66	26	64	25	61	24
436	Tan	235	92	226	89	218	85
437	Tan-LT	127	50	122	48	117	46
451	Shell Gray-DK	148	58	143	56	137	54
452	Shell Gray-MD	1030	405	990	389	953	375
453	Shell Gray-LT	348	137	334	132	322	127
535	Ash Gray-VY LT	23	9	22	8	21	8
543	Beige Brown-UL VY LT	28	11	27	10	26	10
610	Drab Brown-DK	24	9	24	9	23	9
611	Drab Brown	43	17	42	16	40	15
612	Drab Brown-LT	168	66	162	64	156	61
613	Drab Brown-VY LT	29	11	28	10	27	10
632	Desert Sand-UL VY DK	218	86	210	82	202	79
640	Beige Gray-VY DK	75	29	72	28	69	27
645	Beaver Gray-VY DK	94	37	90	35	87	34
647	Beaver Gray-MD	26	10	25	10	24	9
648	Beaver Gray-LT	115	45	111	43	107	41
712	Cream	66	26	64	25	61	24
738	Tan-VY LT	111	43	107	42	103	40
739	Tan-UL VY LT	17	6	16	6	15	6
754	Peach-LT	47	18	45	17	43	17
758	Terra Cotta-VY LT	115	45	111	43	107	41
778	Antique Mauve-VY LT	49	19	47	18	45	17
801	Coffee Brown-DK	6	2	6	2	5	2
819	Baby Pink-LT	345	135	332	130	319	125
822	Beige Gray-LT	156	61	150	59	145	57
830	Golden Olive-DK	4	1	4	1	4	1
838	Beige Brown-VY DK	877	345	843	332	812	319
839	Beige Brown-DK	367	144	353	138	340	133
840	Beige Brown-MD	52	20	50	19	48	19
841	Beige Brown-LT	69	27	66	26	64	25
842	Beige Brown-VY LT	102	40	98	38	95	37
844	Beaver Brown-UL DK	199	78	192	75	185	73
902	Garnet-VY DK	102	40	98	38	95	37
921	Copper	32	12	30	12	29	11
926	Gray Green-MD	8	3	8	3	7	3
927	Gray Green-LT	162	63	156	61	150	59
934	Black Avocado Green	9	3	8	3	8	3
938	Coffee Brown-UL DK	446	175	429	168	413	162
939	Navy Blue-VY DK	336	132	323	127	311	122
945	Tawny	35	13	33	12	32	12
948	Peach-VY LT	86	33	82	32	79	31
950	Desert Sand-LT	50	19	48	19	46	18
951	Tawny-LT	40	15	38	15	37	14
963	Dusty Rose-UL VY LT	72	28	69	27	67	26

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975	Golden Brown-DK	21	8	20	8	19	7
977	Golden Brown-LT	72	28	69	27	67	26
3021	Brown Gray-VY DK	148	58	143	56	137	54
3031	Mocha Brown-VY DK	6	2	6	2	5	2
3032	Mocha Brown-MD	35	14	34	13	33	13
3041	Antique Violet-MD	35	13	33	12	32	12
3042	Antique Violet-LT	618	243	595	234	573	225
3045	Yellow Beige-DK	41	16	39	15	38	15
3328	Salmon-DK	95	37	91	35	88	34
3371	Black Brown	93	36	89	35	86	33
3685	Mauve-DK	73	29	71	28	68	27
3712	Salmon-MD	40	15	38	15	37	14
3721	Shell Pink-DK	151	59	145	57	140	55
3743	Antique Violet-VY LT	88	35	84	33	81	32
3770	Tawny-VY LT	205	81	197	78	190	75
3772	Desert Sand-VY DK	282	111	271	107	261	103
3774	Desert Sand-VY LT	47	18	45	17	43	17
3776	Mahogany-LT	49	19	47	18	45	17
3778	Terra Cotta-LT	72	28	69	27	67	26
3779	Terra Cotta-UL VY LT	8	3	8	3	7	3
3782	Mocha Brown-LT	31	12	30	11	29	11
3787	Brown Gray-DK	24	9	24	9	23	9
3790	Beige Gray-UL DK	168	66	161	63	155	61
3799	Pewter Gray-VY DK	614	241	591	232	569	223
3802	Antique Mauve-VY DK	217	85	208	82	201	79
3822	Straw-LT	2	1	2	1	2	1
3825	Pumpkin-Pale	15	6	15	6	14	5
3827	Golden Brown-Pale	11	4	10	3	10	3
3828	Hazelnut Brown	121	48	116	46	112	44
3830	Terra Cotta-MD	107	42	102	40	99	39
3854	Autumn Gold-MD	8	3	8	3	7	3
3856	Mahogany-UL VY LT	63	24	61	24	59	23
3858	Rosewood-MD	84	33	81	32	78	31
3859	Rosewood-LT	163	63	156	61	151	59
3860	Cocoa	22	8	21	8	20	7
3861	Cocoa-LT	459	181	442	174	425	167
3862	Mocha Beige-DK	184	72	177	69	171	67
3863	Mocha Beige-MD	168	66	162	64	156	61
3864	Mocha Beige-LT	156	61	150	59	144	57
3866	Mocha Brown-UL VY LT	41	16	39	15	38	15

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
224	Shell Pink-VY LT	118	46	110	43	103	41
225	Shell Pink-UL VY LT	133	52	124	49	116	46
310	Black	42	16	39	15	37	14
315	Antique Mauve-VY DK	93	36	86	34	81	32
317	Pewter Gray	33	13	31	12	29	11
318	Steel Gray-LT	103	40	96	37	90	35
326	Rose-VY DK	22	8	20	8	19	7
352	Coral-LT	4	1	4	1	3	1
353	Peach	25	10	23	9	22	8
355	Terra Cotta-DK	36	14	34	13	32	12
356	Terra Cotta-MD	167	66	156	61	146	57
370	Mustard-MD	54	21	50	20	47	19

371	Mustard	45	17	42	16	39	15
402	Mahogany-VY LT	55	21	51	20	48	19
407	Desert Sand-DK	167	66	156	61	146	57
413	Pewter Gray-DK	240	94	224	88	210	82
414	Steel Gray-DK	318	125	296	116	278	109
415	Pearl Gray	49	19	46	17	43	16
420	Hazelnut Brown-DK	17	6	16	6	15	6
422	Hazelnut Brown-LT	102	40	95	37	89	35
435	Brown-VY LT	59	23	55	22	52	20
436	Tan	210	82	196	77	184	72
437	Tan-LT	113	44	106	41	99	39
451	Shell Gray-DK	132	52	124	49	116	46
452	Shell Gray-MD	919	361	858	337	804	316
453	Shell Gray-LT	311	122	290	114	272	107
535	Ash Gray-VY LT	21	8	19	7	18	7
543	Beige Brown-UL VY LT	25	10	23	9	22	8
610	Drab Brown-DK	22	8	20	8	19	7
611	Drab Brown	39	15	36	14	34	13
612	Drab Brown-LT	150	59	140	55	132	52
613	Drab Brown-VY LT	26	10	24	9	23	8
632	Desert Sand-UL VY DK	195	77	182	71	170	67
640	Beige Gray-VY DK	67	26	62	24	59	23
645	Beaver Gray-VY DK	84	33	78	31	73	29
647	Beaver Gray-MD	23	9	22	8	20	8
648	Beaver Gray-LT	103	40	96	37	90	35
712	Cream	59	23	55	22	52	20
738	Tan-VY LT	99	39	92	36	87	34
739	Tan-UL VY LT	15	6	14	5	13	5
754	Peach-LT	42	16	39	15	37	14
758	Terra Cotta-VY LT	103	40	96	37	90	35
778	Antique Mauve-VY LT	44	17	41	16	38	15
801	Coffee Brown-DK	5	2	5	2	5	2
819	Baby Pink-LT	308	121	287	113	269	106
822	Beige Gray-LT	140	55	130	51	122	48
830	Golden Olive-DK	4	1	4	1	3	1
838	Beige Brown-VY DK	783	308	731	287	685	269
839	Beige Brown-DK	328	129	306	120	287	113
840	Beige Brown-MD	46	18	43	17	41	16
841	Beige Brown-LT	62	24	58	22	54	21
842	Beige Brown-VY LT	91	35	85	33	80	31
844	Beaver Brown-UL DK	178	70	166	65	156	61
902	Garnet-VY DK	91	35	85	33	80	31
921	Copper	28	11	26	10	25	10
926	Gray Green-MD	7	3	7	2	6	2
927	Gray Green-LT	145	57	135	53	127	50
934	Black Avocado Green	8	3	7	2	7	2
938	Coffee Brown-UL DK	398	156	371	146	348	137
939	Navy Blue-VY DK	300	118	280	110	263	103
945	Tawny	31	12	29	11	27	10
948	Peach-VY LT	77	30	71	28	67	26
950	Desert Sand-LT	44	17	41	16	39	15
951	Tawny-LT	35	14	33	13	31	12
963	Dusty Rose-UL VY LT	64	25	60	23	56	22
975	Golden Brown-DK	19	7	17	7	16	6
977	Golden Brown-LT	64	25	60	23	56	22
3021	Brown Gray-VY DK	132	52	124	49	116	46
3031	Mocha Brown-VY DK	5	2	5	2	5	2
3032	Mocha Brown-MD	32	12	29	11	28	11
3041	Antique Violet-MD	31	12	29	11	27	10

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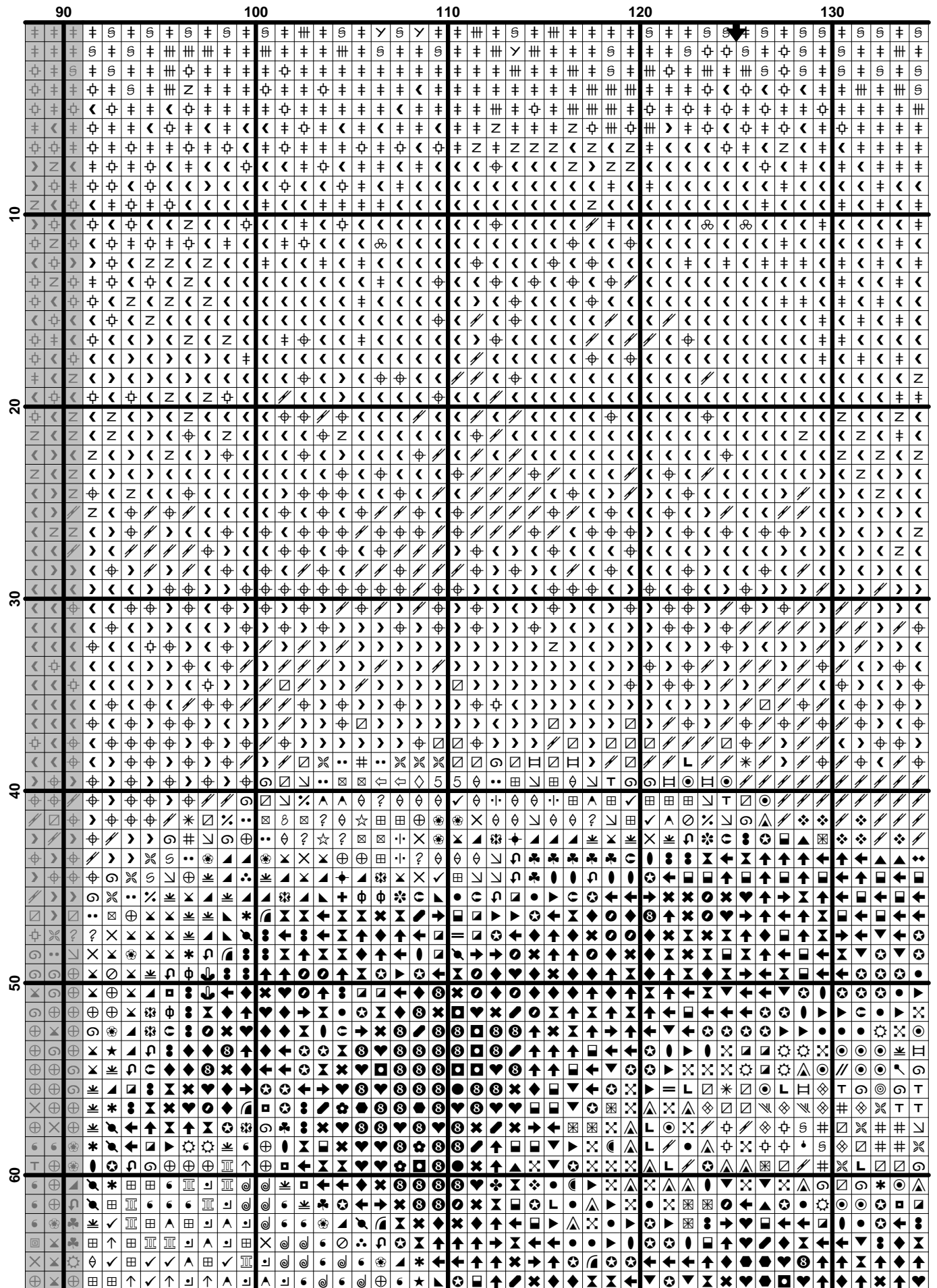
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3042	Antique Violet-LT	552	217	515	203	483	190
3045	Yellow Beige-DK	37	14	34	13	32	12
3328	Salmon-DK	85	33	79	31	74	29
3371	Black Brown	83	32	77	30	73	28
3685	Mauve-DK	66	26	61	24	57	23
3712	Salmon-MD	35	14	33	13	31	12
3721	Shell Pink-DK	135	53	126	49	118	46
3743	Antique Violet-VY LT	78	31	73	29	69	27
3770	Tawny-VY LT	183	72	171	67	160	63
3772	Desert Sand-VY DK	252	99	235	92	221	87
3774	Desert Sand-VY LT	42	16	39	15	37	14
3776	Mahogany-LT	44	17	41	16	38	15
3778	Terra Cotta-LT	64	25	60	23	56	22
3779	Terra Cotta-UL VY LT	7	3	7	2	6	2
3782	Mocha Brown-LT	28	10	26	10	24	9
3787	Brown Gray-DK	22	8	20	8	19	7
3790	Beige Gray-UL DK	150	59	140	55	131	51
3799	Pewter Gray-VY DK	548	215	512	201	480	188
3802	Antique Mauve-VY DK	194	76	181	71	169	66
3822	Straw-LT	2	1	2	1	2	1
3825	Pumpkin-Pale	14	5	13	5	12	5
3827	Golden Brown-Pale	10	3	9	3	8	3
3828	Hazelnut Brown	108	42	101	40	95	37
3830	Terra Cotta-MD	95	37	89	35	83	33
3854	Autumn Gold-MD	7	3	7	2	6	2
3856	Mahogany-UL VY LT	57	22	53	20	50	19
3858	Rosewood-MD	75	30	70	28	66	26
3859	Rosewood-LT	145	57	136	53	127	50
3860	Cocoa	19	7	18	7	17	6
3861	Cocoa-LT	410	161	383	151	359	141
3862	Mocha Beige-DK	165	64	154	60	144	56
3863	Mocha Beige-MD	150	59	140	55	132	52
3864	Mocha Beige-LT	139	55	130	51	122	48
3866	Mocha Brown-UL VY LT	37	14	34	13	32	12

(8)

(9)



$$(10) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (11)$$

$$(11) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (12)$$

(12)

	10										20										30										40									
70	2	5	2	†	2	†	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	Y	0	2	†	†	2	†	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	V	2	5	†	†	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	Y	5	5	†	†	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	Y	2	5	†	†	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
80	V	0	2	5	†	†	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	V	2	2	5	†	†	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
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	2	Y	2	†	†	2	†	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
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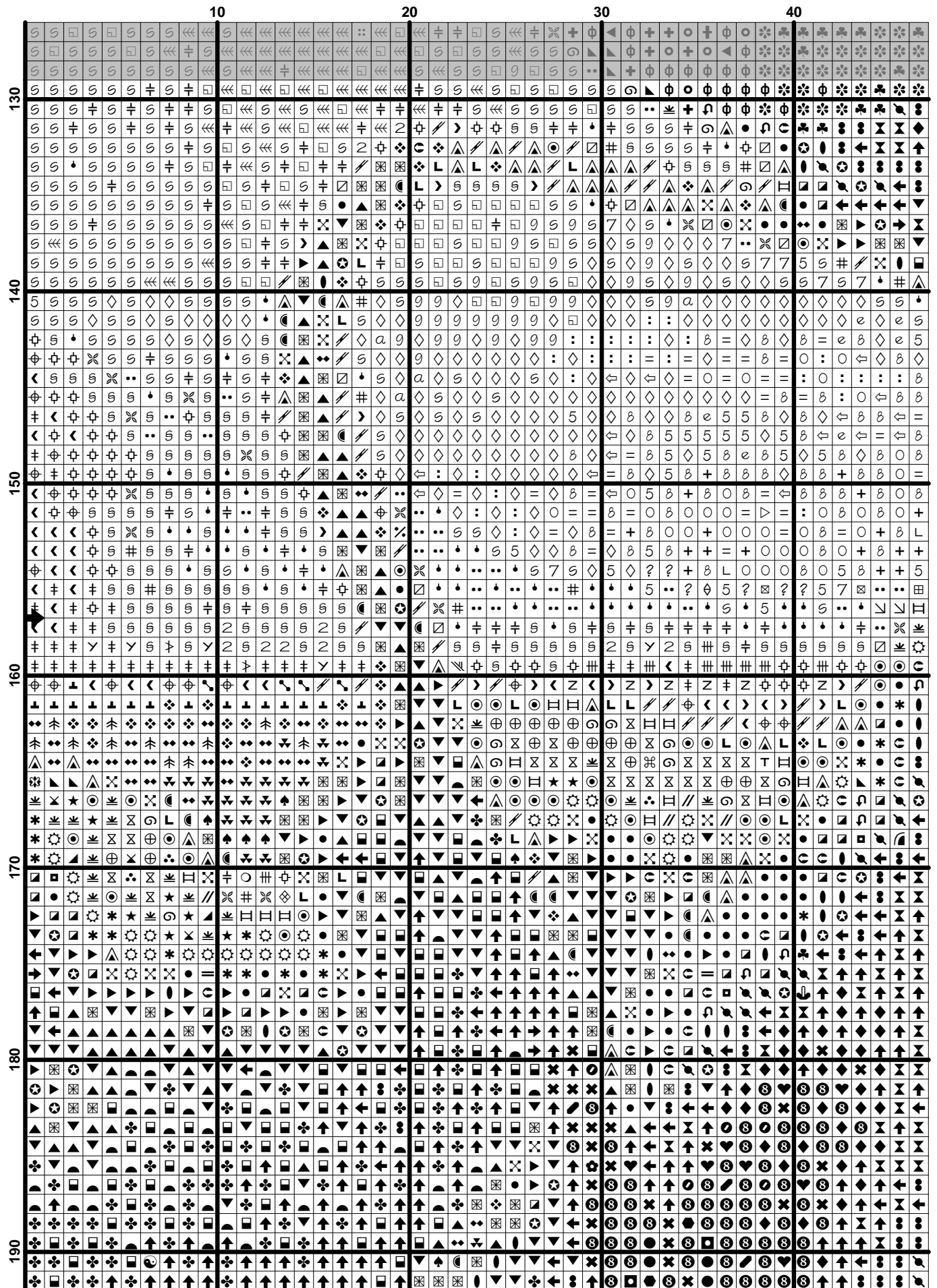
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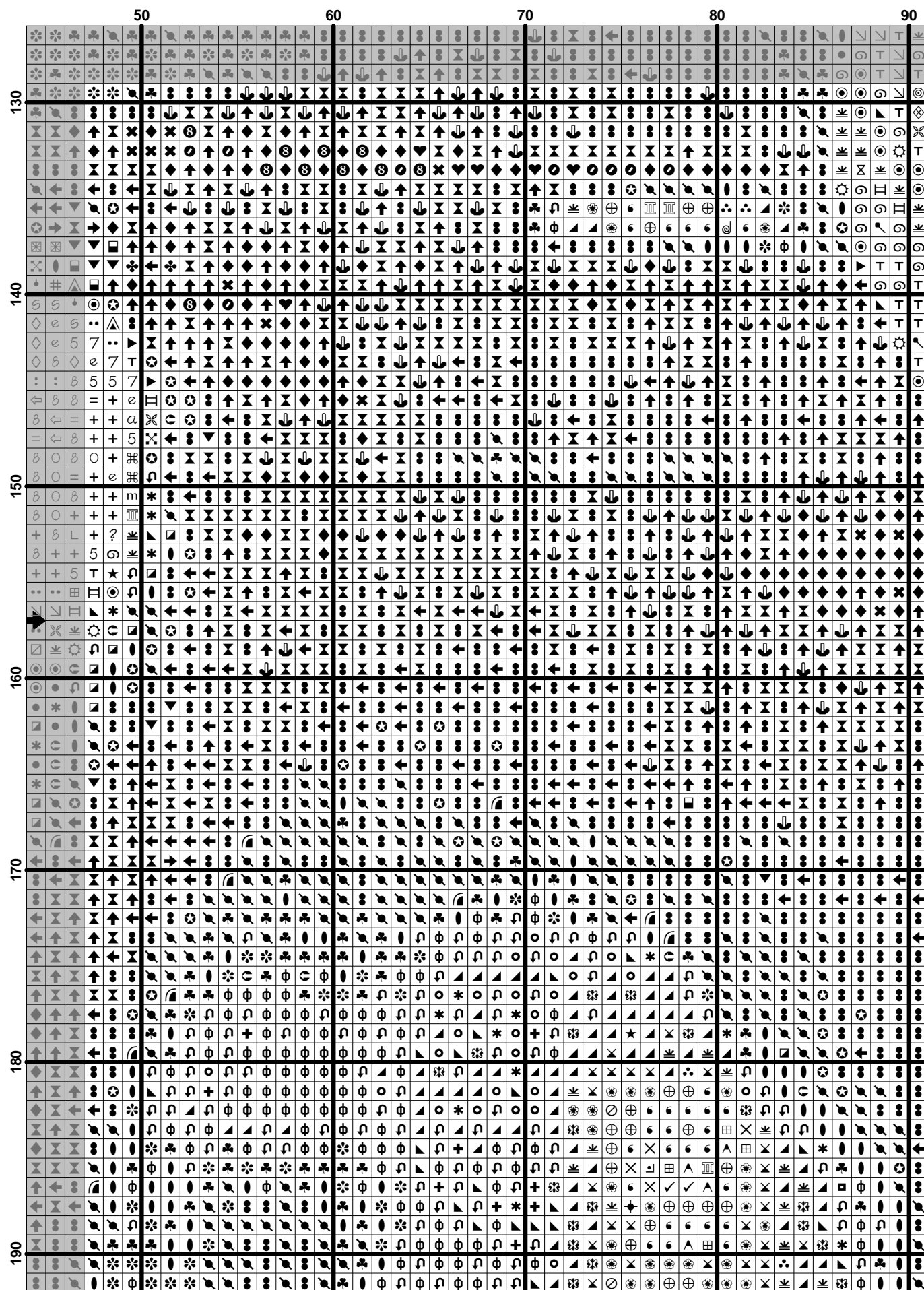
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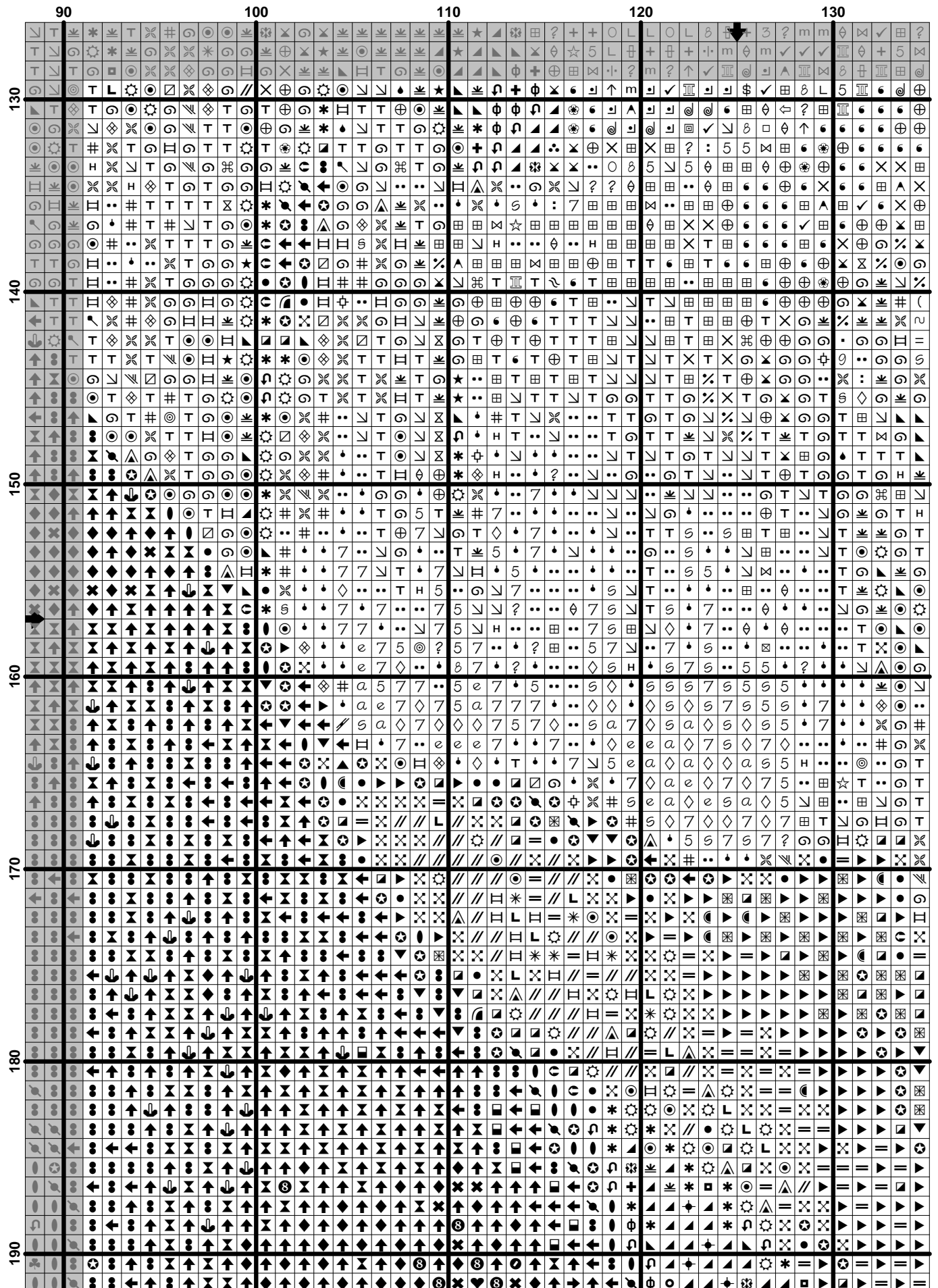
[illegible]

[illegible]

(18)

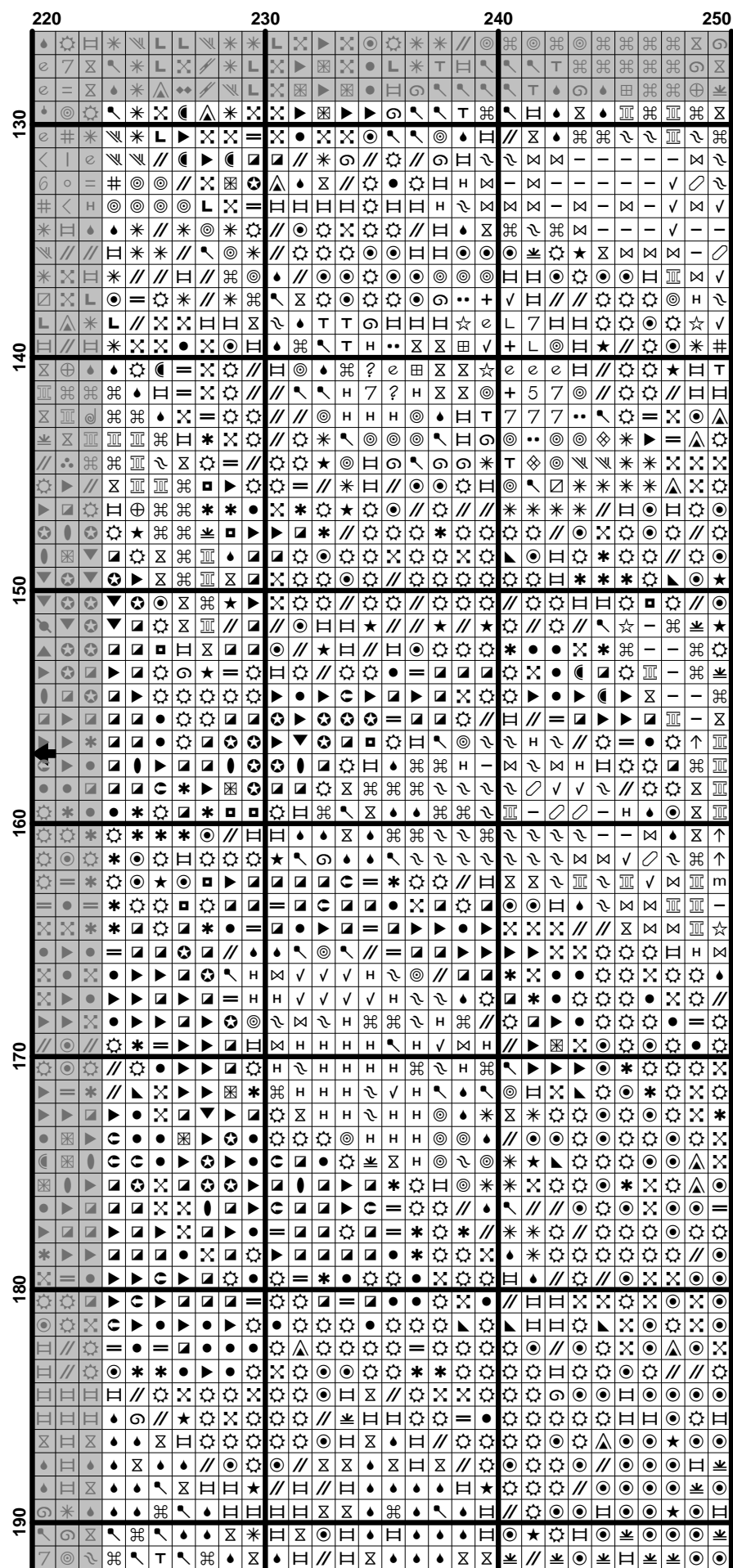


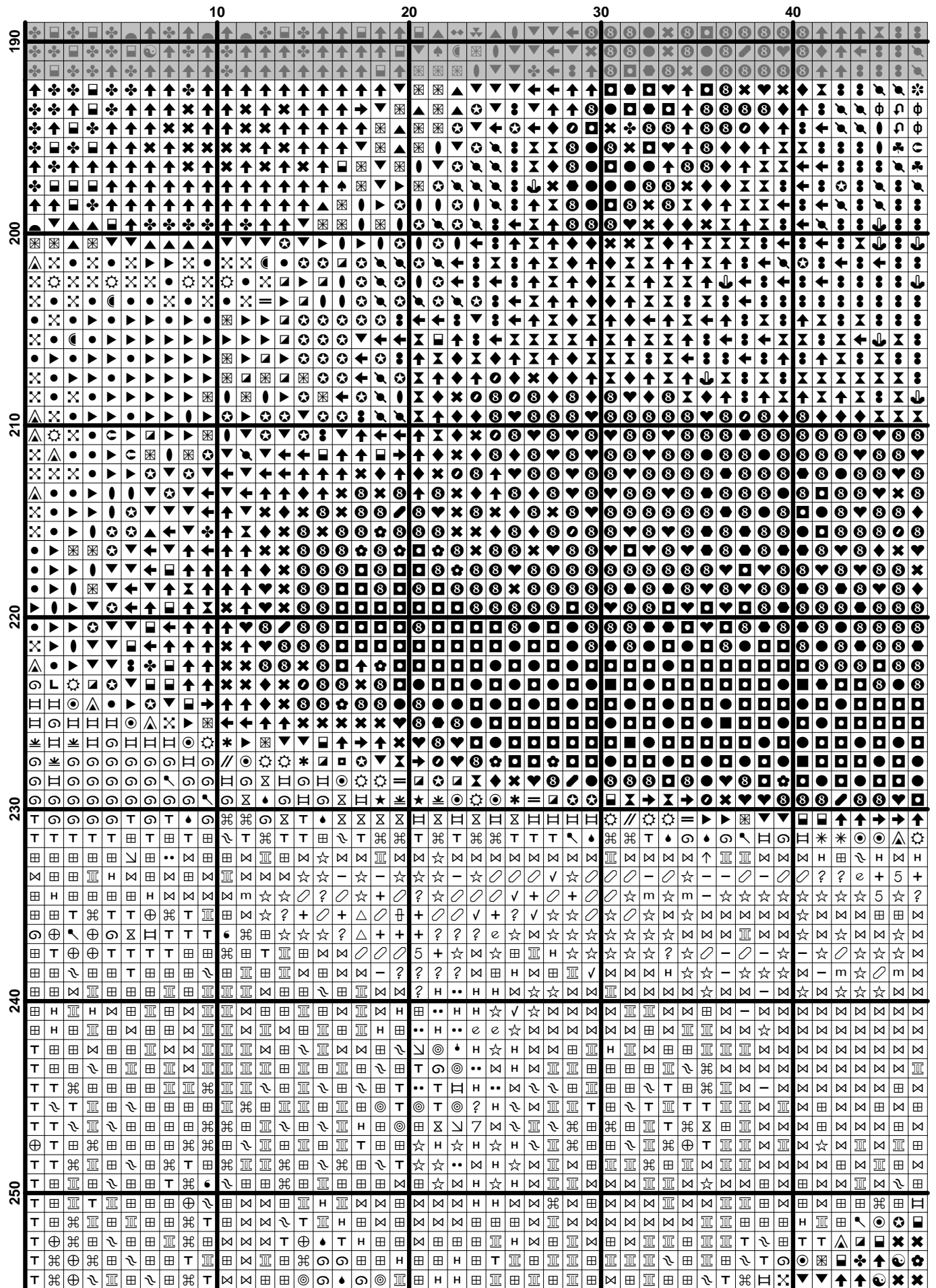




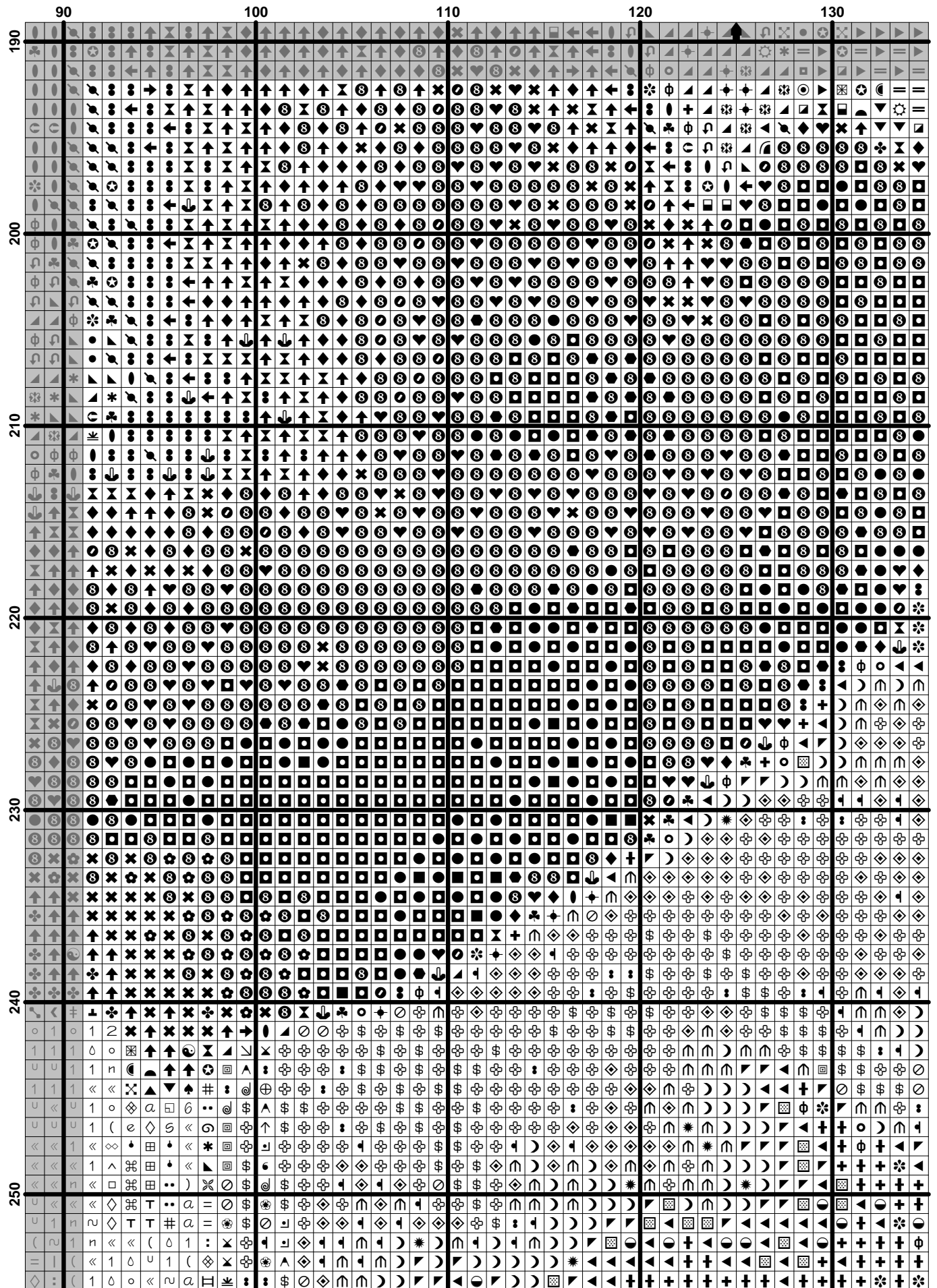
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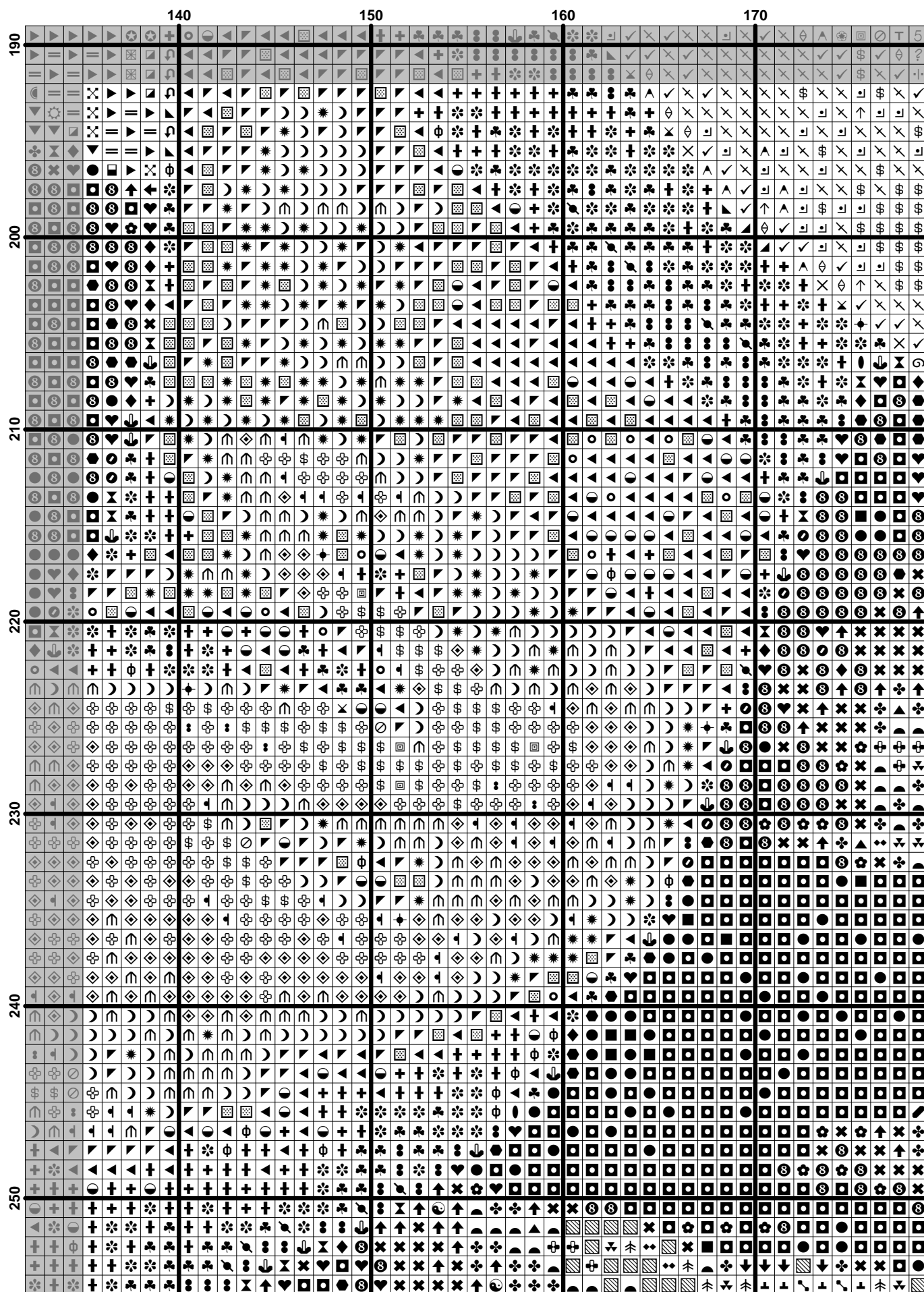
$$(23) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

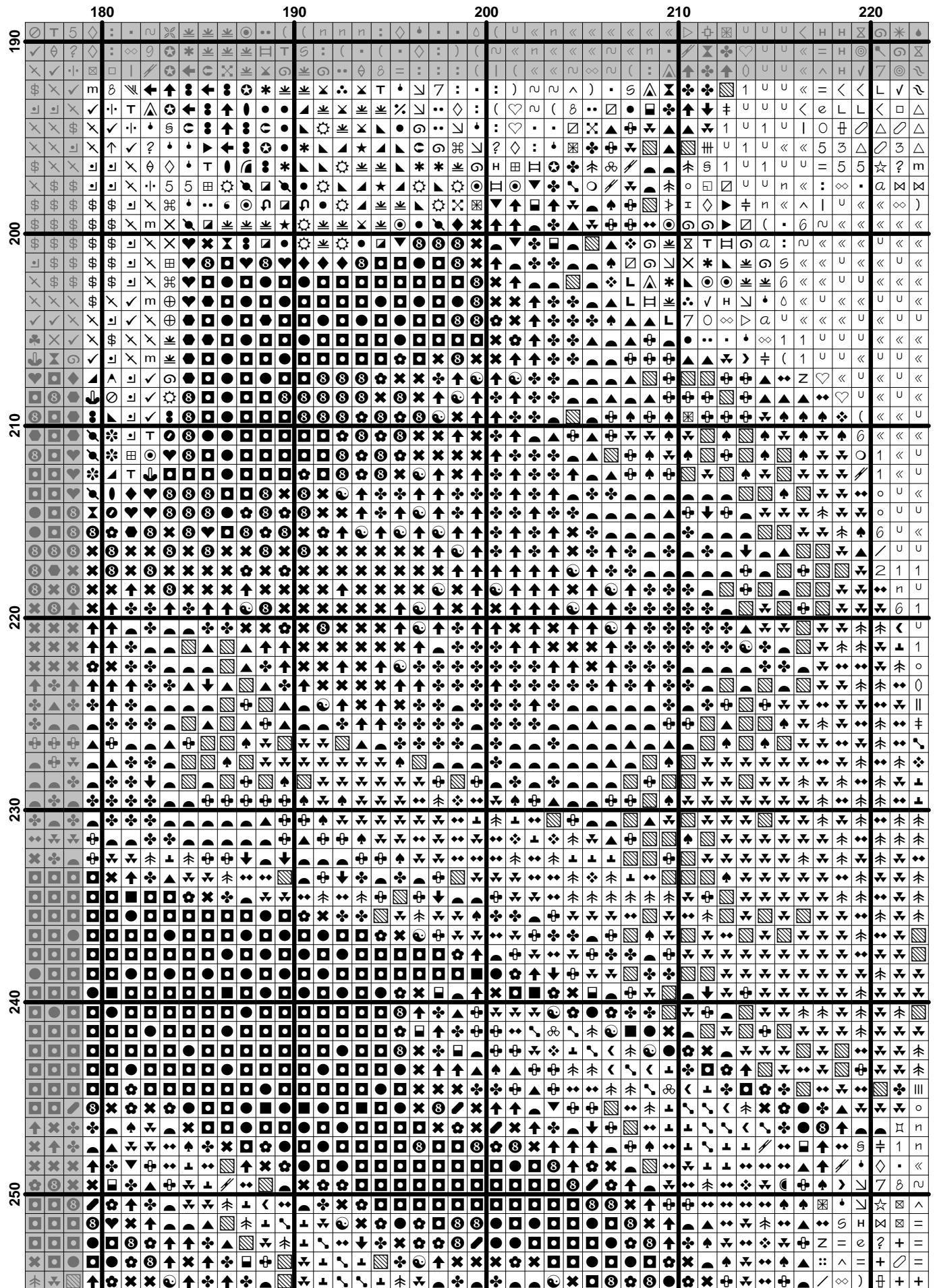




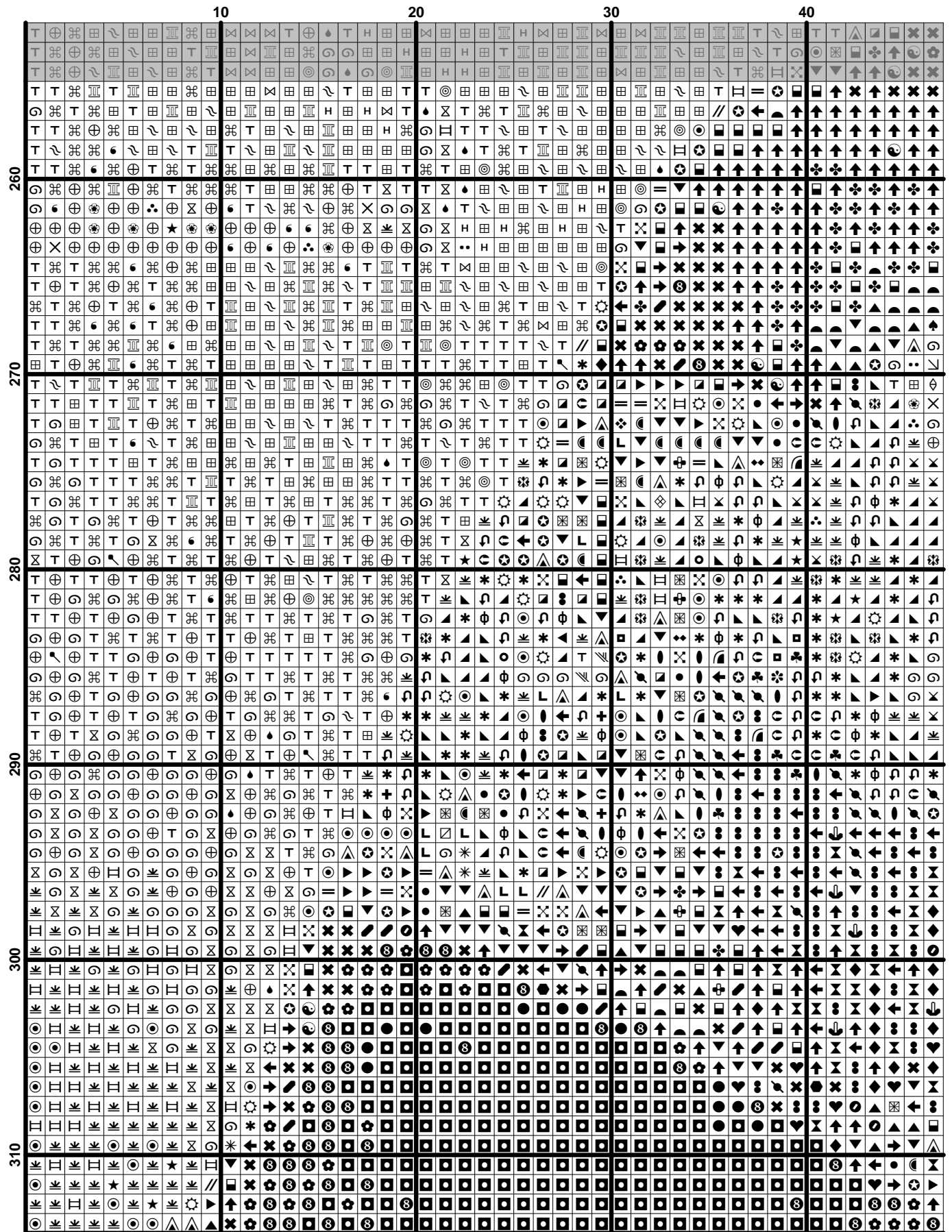
$$(26) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (27)$$

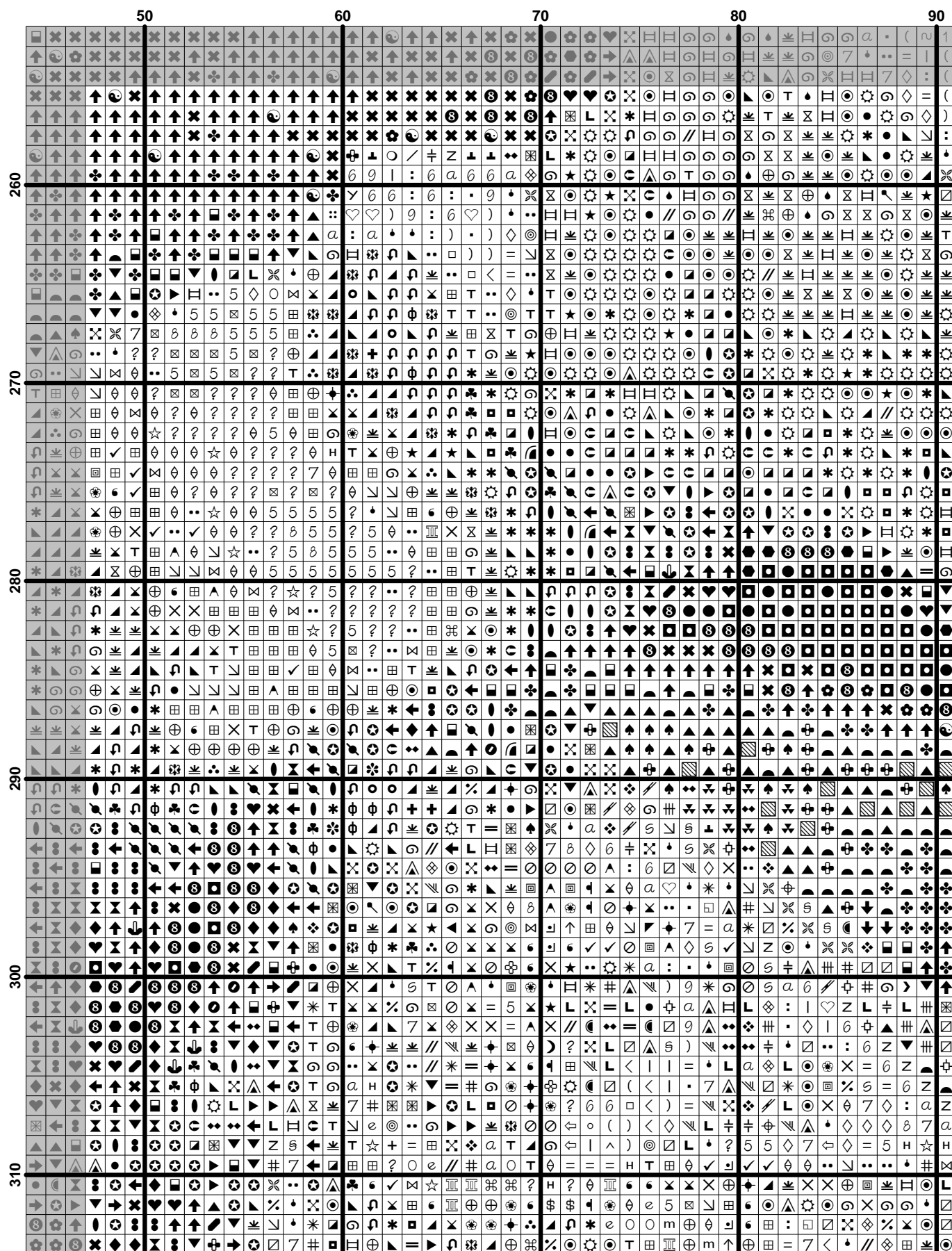


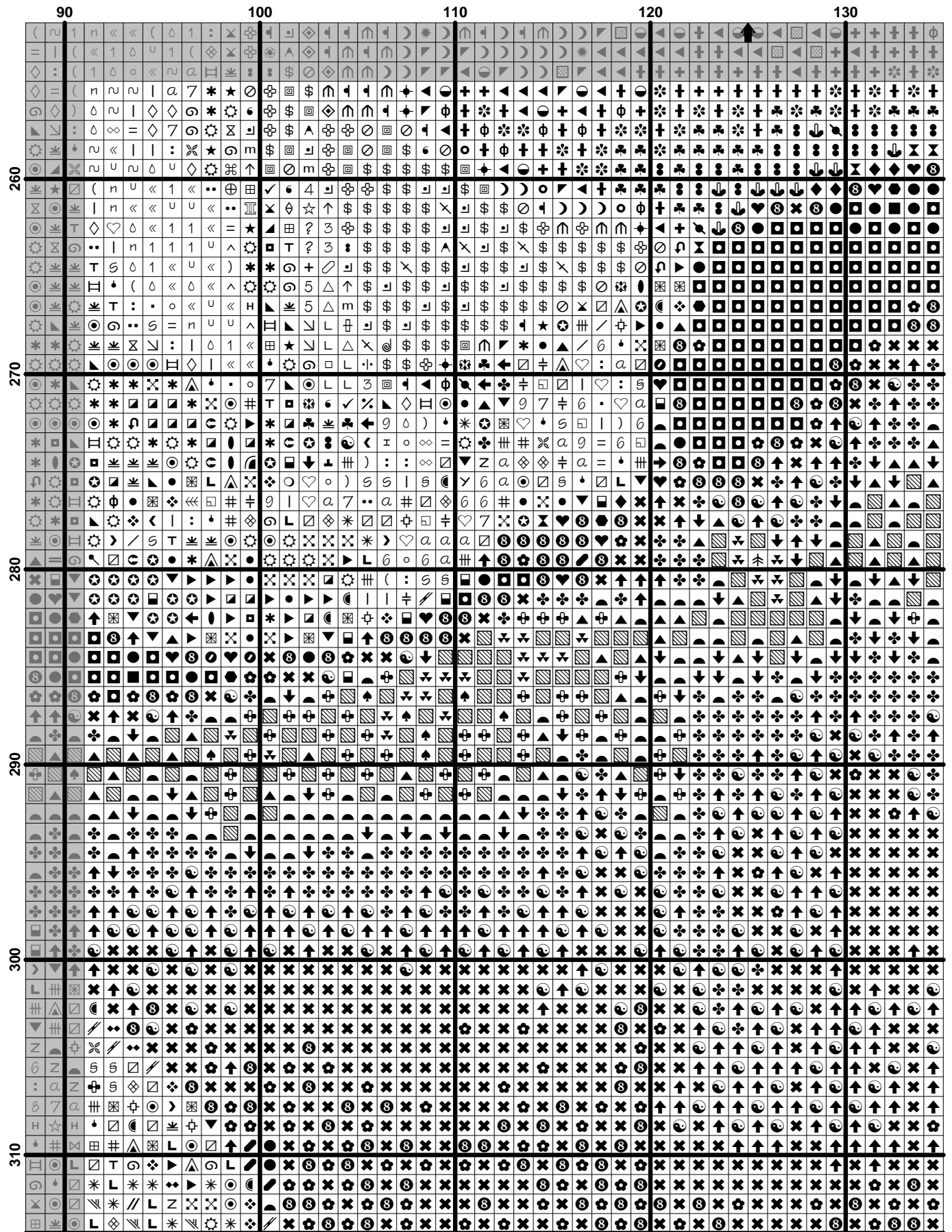


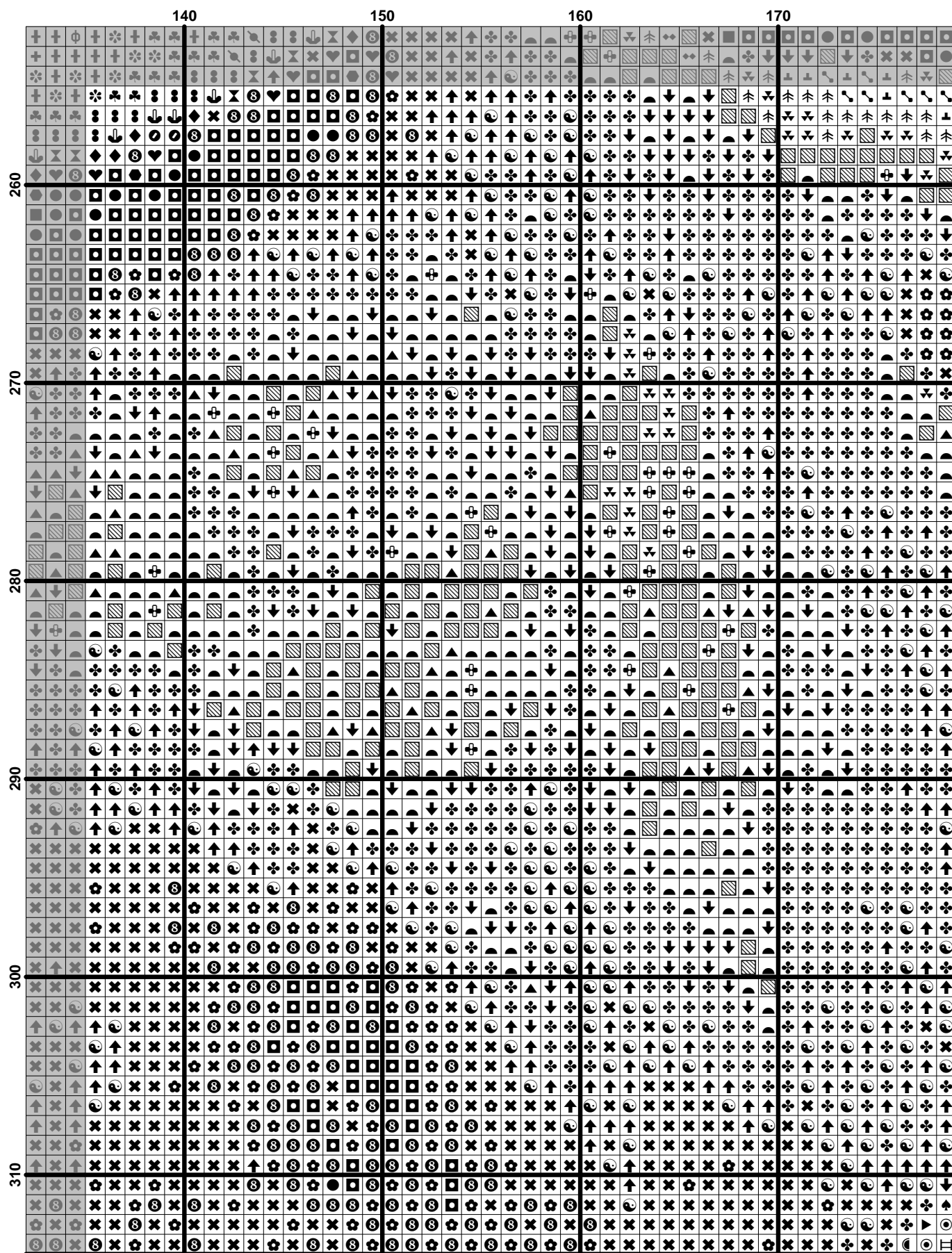


(30)









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