

1050 Reading By The Window



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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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Reading By The Window

Stitch Count		Recommended Fabric Color	
Horizontal:	352	Antique White	
Vertical:	273		

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:	64	25.07	50	19.44	56	21.93	44	17.01	50	19.5	39	15.125
Including Margins:	80	32	66	26	72	28	60	24	66	26	55	22
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	89	35.09	70	27.21	74	29.24	58	22.68	37	14.62	29	11.34
Including Margins:	105	42	86	34	90	36	74	29	53	21	45	18
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	35	14.03	28	10.88	34	13.49	26	10.46	33	12.99	25	10.08
Including Margins:	51	21	44	17	50	20	42	17	49	19	41	17
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	32	12.53	25	9.72	29	11.69	23	9.07	28	10.96	21	8.5
Including Margins:	48	19	41	16	45	18	39	16	44	17	37	15

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
✱	223	Shell Pink-LT
5	224	Shell Pink-VY LT
●	300	Mahogany-VY DK
⌘	316	Antique Mauve-MD
•	353	Peach
⋯	356	Terra Cotta-MD
⌘	370	Mustard-MD
↖	371	Mustard
⌘	372	Mustard-LT
⌘	407	Desert Sand-DK
♣	413	Pewter Gray-DK
◇	415	Pearl Gray
▲	420	Hazelnut Brown-DK
◇	422	Hazelnut Brown-LT
↓	433	Brown-MD
▼	434	Brown-LT
↖	451	Shell Gray-DK
•	452	Shell Gray-MD
•	522	Fern Green
2	523	Fern Green-LT
≡	524	Fern Green-VY LT
●	535	Ash Gray-VY LT
▷	543	Beige Brown-UL VY LT
●	610	Drab Brown-DK
★	611	Drab Brown
⌘	612	Drab Brown-LT
↔	613	Drab Brown-VY LT
⊕	632	Desert Sand-UL VY DK
//	640	Beige Gray-VY DK
4	644	Beige Gray-MD
■	645	Beaver Gray-VY DK
×	647	Beaver Gray-MD
♂	677	Old Gold-VY LT
↓	704	Chartreuse-BRT
n	712	Cream
↑	729	Old Gold- MD
↗	733	Olive Green-MD
7	734	Olive Green-LT
e	738	Tan-VY LT
<	739	Tan-UL VY LT
∞	745	Yellow -LT Pale
1	746	Off White
L	754	Peach-LT
∪	758	Terra Cotta-VY LT
(762	Pearl Gray-VY LT
⊖	780	Topaz-UL VY DK
⊗	782	Topaz-DK

□	822	Beige Gray-LT
➔	829	Golden Olive-VY DK
●	830	Golden Olive-DK
⋈	832	Golden Olive
⊗	838	Beige Brown-VY DK
∩	839	Beige Brown-DK
✕	840	Beige Brown-MD
⊕	841	Beige Brown-LT
⌘	844	Beaver Brown-UL DK
⌘	926	Gray Green-MD
✓	927	Gray Green-LT
⌘	928	Gray Green-VY LT
■	938	Coffee Brown-UL DK
⌘	975	Golden Brown-DK
⌘	3011	Khaki Green-DK
⋈	3022	Brown Gray -MD
△	3023	Brown Gray -LT
⊕	3024	Brown Gray -VY LT
⋈	3032	Mocha Brown-MD
?	3045	Yellow Beige-DK
⋈	3051	Green Gray-DK
↘	3064	Desert Sand
>	3072	Beaver Gray-VY LT
⌘	3347	Yellow Green-MD
⌘	3348	Yellow Green-LT
⌘	3363	Pine Green-MD
■	3371	Black Brown
▼	3721	Shell Pink-DK
⌘	3722	Shell Pink-MD
⌘	3726	Antique Mauve-DK
∪	3733	Dusty Rose
♡	3753	Antique Blue-UL VY LT
◊	3756	Baby Blue-UL VY LT
▲	3772	Desert Sand-VY DK
⊗	3778	Terra Cotta-LT
β	3779	Terra Cotta-UL VY LT
↑	3781	Mocha Brown-DK
⊕	3782	Mocha Brown-LT
⊕	3787	Brown Gray -DK
○	3790	Beige Gray-UL DK
●	3799	Pewter Gray-VY DK
∩	3823	Yellow -UL Pale
⌘	3828	Hazelnut Brown
⌘	3829	Old Gold-VY DK
⌘	3856	Mahogany-UL VY LT
⌘	3861	Cocoa-LT
◀	3862	Mocha Beige-DK
⌘	3863	Mocha Beige-MD
::	3864	Mocha Beige-LT
u	3865	Winter White

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

Symbol	DMC1	Name1	DMC2	Name2
	927	Gray Green-LT	928	Gray Green-VY LT
н	452	Shell Gray-MD	927	Gray Green-LT
►	420	Hazelnut Brown-DK	434	Brown-LT
⌚	353	Peach	745	Yellow -LT Pale
▲	420	Hazelnut Brown-DK	611	Drab Brown
▣	356	Terra Cotta-MD	3828	Hazelnut Brown
*	610	Drab Brown-DK	3863	Mocha Beige-MD
♣	839	Beige Brown-DK	3787	Brown Gray -DK
▼	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
✕	3021	Brown Gray -VY DK	3051	Green Gray-DK
▤	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
▲	632	Desert Sand-UL VY DK	3787	Brown Gray -DK
↓	632	Desert Sand-UL VY DK	839	Beige Brown-DK
➤	3032	Mocha Brown-MD	3863	Mocha Beige-MD
✱	610	Drab Brown-DK	632	Desert Sand-UL VY DK
+	415	Pearl Gray	3753	Antique Blue-UL VY LT
✦	223	Shell Pink-LT	3790	Beige Gray-UL DK
●	3346	Hunter Green	3790	Beige Gray-UL DK
≈	433	Brown-MD	975	Golden Brown-DK
♠	420	Hazelnut Brown-DK	435	Brown-VY LT
♥	801	Coffee Brown-DK	838	Beige Brown-VY DK
○	712	Cream	3072	Beaver Gray-VY LT
⊙	640	Beige Gray-VY DK	3022	Brown Gray -MD
⊕	3740	Antique Violet-DK	645	Beaver Gray-VY DK
+	3740	Antique Violet-DK	3790	Beige Gray-UL DK
♠	223	Shell Pink-LT	3032	Mocha Brown-MD
⊕	3772	Desert Sand-VY DK	3863	Mocha Beige-MD
♠	420	Hazelnut Brown-DK	3721	Shell Pink-DK
●	938	Coffee Brown-UL DK	300	Mahogany-VY DK
⊙	221	Shell Pink-VY DK	300	Mahogany-VY DK
♠	780	Topaz-UL VY DK	782	Topaz-DK
✕	3721	Shell Pink-DK	3772	Desert Sand-VY DK
3	734	Olive Green-LT	3827	Golden Brown-Pale
▤	3772	Desert Sand-VY DK	612	Drab Brown-LT
✱	223	Shell Pink-LT	3726	Antique Mauve-DK
m	3348	Yellow Green-LT	523	Fern Green-LT
^	3823	Yellow -UL Pale	822	Beige Gray-LT
∅	224	Shell Pink-VY LT	822	Beige Gray-LT
⊙	3064	Desert Sand	223	Shell Pink-LT
⊕	3721	Shell Pink-DK	3862	Mocha Beige-DK
⊕	3733	Dusty Rose	3864	Mocha Beige-LT
«	3823	Yellow -UL Pale	746	Off White
⊕	223	Shell Pink-LT	3023	Brown Gray -LT
✱	610	Drab Brown-DK	829	Golden Olive-VY DK
X	783	Topaz-MD	435	Brown-VY LT
L	435	Brown-VY LT	611	Drab Brown
✱	435	Brown-VY LT	3721	Shell Pink-DK
⊕	3721	Shell Pink-DK	370	Mustard-MD
III	612	Drab Brown-LT	729	Old Gold-MD
○	372	Mustard-LT	3045	Yellow Beige-DK
α	613	Drab Brown-VY LT	224	Shell Pink-VY LT
⊕	435	Brown-VY LT	832	Golden Olive
5	372	Mustard-LT	422	Hazelnut Brown-LT

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✓	841	Beige Brown-LT	3864	Mocha Beige-LT
⊕	370	Mustard-MD	611	Drab Brown
‡	975	Golden Brown-DK	610	Drab Brown-DK
τ	647	Beaver Gray-MD	3022	Brown Gray-MD
♦♦	3726	Antique Mauve-DK	640	Beige Gray-VY DK
· ·	928	Gray Green-VY LT	554	Violet-LT
⌘	451	Shell Gray-DK	452	Shell Gray-MD
√	644	Beige Gray-MD	452	Shell Gray-MD
l	712	Cream	644	Beige Gray-MD
6	3856	Mahogany-UL VY LT	613	Drab Brown-VY LT
≡	783	Topaz-MD	3828	Hazelnut Brown
⊕	927	Gray Green-LT	451	Shell Gray-DK
c	422	Hazelnut Brown-LT	437	Tan-LT
:	543	Beige Brown-UL VY LT	644	Beige Gray-MD
⇒	369	Pistachio Green-VY LT	613	Drab Brown-VY LT
..	524	Fern Green-VY LT	3032	Mocha Brown-MD
△	369	Pistachio Green-VY LT	3348	Yellow Green-LT
/	738	Tan-VY LT	472	Avocado Green-UL LT
□	613	Drab Brown-VY LT	372	Mustard-LT
⌘	420	Hazelnut Brown-DK	581	Moss Green
↑	369	Pistachio Green-VY LT	3823	Yellow-UL Pale
o	472	Avocado Green-UL LT	445	Lemon-LT
9	472	Avocado Green-UL LT	3827	Golden Brown-Pale
√	445	Lemon-LT	613	Drab Brown-VY LT
=	445	Lemon-LT	738	Tan-VY LT
⌘	3041	Antique Violet-MD	451	Shell Gray-DK
⊕	3041	Antique Violet-MD	452	Shell Gray-MD
‡	372	Mustard-LT	3064	Desert Sand
⌘	3041	Antique Violet-MD	3740	Antique Violet-DK
⊕	370	Mustard-MD	3347	Yellow Green-MD
⌘	3051	Green Gray-DK	3799	Pewter Gray-VY DK
⌘	3051	Green Gray-DK	3346	Hunter Green
⊙	522	Fern Green	3011	Khaki Green-DK
⌘	3011	Khaki Green-DK	3790	Beige Gray-UL DK
×	522	Fern Green	3790	Beige Gray-UL DK
)	613	Drab Brown-VY LT	745	Yellow-LT Pale
#	704	Chartreuse-BRT	522	Fern Green
^	3864	Mocha Beige-LT	223	Shell Pink-LT
\$	3772	Desert Sand-VY DK	3864	Mocha Beige-LT
=	3722	Shell Pink-MD	3862	Mocha Beige-DK
-	3779	Terra Cotta-UL VY LT	407	Desert Sand-DK
⊕	3772	Desert Sand-VY DK	370	Mustard-MD
⌘	370	Mustard-MD	3864	Mocha Beige-LT
⊕	221	Shell Pink-VY DK	938	Coffee Brown-UL DK
5	3828	Hazelnut Brown	833	Golden Olive-LT
<	640	Beige Gray-VY DK	841	Beige Brown-LT
☆	372	Mustard-LT	3348	Yellow Green-LT
z	3722	Shell Pink-MD	554	Violet-LT
←	3721	Shell Pink-DK	221	Shell Pink-VY DK
◆	300	Mahogany-VY DK	829	Golden Olive-VY 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	
221	Shell Pink-VY DK	104	40	99	38	89	35
223	Shell Pink-LT	319	125	304	119	273	107
224	Shell Pink-VY LT	136	53	130	51	117	46
300	Mahogany-VY DK	359	141	342	134	308	121
316	Antique Mauve-MD	3	1	3	1	3	1
353	Peach	34	13	33	12	29	11
356	Terra Cotta-MD	86	33	81	31	73	28
369	Pistachio Green-VY LT	104	40	99	38	89	35
370	Mustard-MD	486	191	463	182	416	163
371	Mustard	129	50	123	48	111	43
372	Mustard-LT	772	303	735	289	662	260
407	Desert Sand-DK	60	23	58	22	52	20
413	Pewter Gray -DK	13	5	12	4	11	4
415	Pearl Gray	46	18	44	17	39	15
420	Hazelnut Brown-DK	704	277	671	264	603	237
422	Hazelnut Brown-LT	336	132	320	125	288	113
433	Brown-MD	321	126	306	120	275	108
434	Brown-LT	345	135	328	129	295	116
435	Brown-VY LT	316	124	301	118	271	106
437	Tan-LT	47	18	45	17	40	15
445	Lemon-LT	89	35	85	33	76	29
451	Shell Gray-DK	398	156	379	149	341	134
452	Shell Gray-MD	737	290	702	276	632	248
472	Avocado Green-UL LT	61	24	58	22	52	20
522	Fern Green	103	40	98	38	88	34
523	Fern Green-LT	61	24	58	22	52	20
524	Fern Green-VY LT	361	142	343	135	309	121
535	Ash Gray-VY LT	37	14	35	13	31	12
543	Beige Brown-UL VY LT	289	113	275	108	247	97
554	Violet-LT	21	8	20	7	18	7
581	Moss Green	9	3	9	3	8	3
610	Drab Brown-DK	783	308	745	293	671	264
611	Drab Brown	518	203	493	194	444	174
612	Drab Brown-LT	386	151	368	144	331	130
613	Drab Brown-VY LT	648	255	617	242	555	218
632	Desert Sand-UL VY DK	665	261	633	249	570	224
640	Beige Gray-VY DK	665	261	634	249	570	224
644	Beige Gray-MD	793	312	755	297	679	267
645	Beaver Gray-VY DK	198	77	189	74	170	66
647	Beaver Gray-MD	243	95	232	91	209	82
677	Old Gold-VY LT	76	29	72	28	65	25
704	Chartreuse-BRT	12	4	12	4	11	4
712	Cream	358	140	341	134	307	120
729	Old Gold- MD	107	42	102	40	91	35
733	Olive Green-MD	5	1	4	1	4	1
734	Olive Green-LT	69	27	65	25	59	23
738	Tan-VY LT	341	134	324	127	292	114
739	Tan-UL VY LT	148	58	141	55	127	50
745	Yellow -LT Pale	83	32	79	31	71	27
746	Off White	242	95	230	90	207	81
754	Peach-LT	24	9	23	9	21	8
758	Terra Cotta-VY LT	12	4	11	4	10	3
762	Pearl Gray-VY LT	88	34	83	32	75	29
780	Topaz-UL VY DK	24	9	23	9	20	7

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782	Topaz-DK	26	10	25	9	22	8
783	Topaz-MD	45	17	43	16	38	14
801	Coffee Brown-DK	138	54	132	51	119	46
822	Beige Gray-LT	243	95	231	90	208	81
829	Golden Olive-VY DK	360	141	343	135	309	121
830	Golden Olive-DK	84	33	80	31	72	28
832	Golden Olive	72	28	69	27	62	24
833	Golden Olive-LT	16	6	16	6	14	5
838	Beige Brown-VY DK	328	129	312	122	281	110
839	Beige Brown-DK	468	184	446	175	401	157
840	Beige Brown-MD	434	170	413	162	372	146
841	Beige Brown-LT	700	275	667	262	600	236
844	Beaver Brown-UL DK	63	24	60	23	54	21
926	Gray Green-MD	19	7	18	7	16	6
927	Gray Green-LT	181	71	173	68	155	61
928	Gray Green-VY LT	186	73	177	69	159	62
938	Coffee Brown-UL DK	419	164	399	157	359	141
975	Golden Brown-DK	451	177	429	168	386	151
3011	Khaki Green-DK	128	50	122	48	109	42
3021	Brown Gray -VY DK	32	12	31	12	27	10
3022	Brown Gray -MD	329	129	314	123	282	111
3023	Brown Gray -LT	323	127	307	120	276	108
3024	Brown Gray -VY LT	345	135	328	129	296	116
3032	Mocha Brown-MD	800	314	762	300	686	270
3041	Antique Violet-MD	51	20	48	18	44	17
3045	Yellow Beige-DK	235	92	224	88	202	79
3051	Green Gray-DK	79	31	75	29	67	26
3064	Desert Sand	190	74	181	71	163	64
3072	Beaver Gray-VY LT	373	146	355	139	319	125
3346	Hunter Green	20	7	19	7	17	6
3347	Yellow Green-MD	21	8	20	7	18	7
3348	Yellow Green-LT	72	28	68	26	61	24
3363	Pine Green-MD	12	4	11	4	10	3
3371	Black Brown	23	9	22	8	20	7
3721	Shell Pink- DK	366	144	349	137	314	123
3722	Shell Pink- MD	140	55	133	52	120	47
3726	Antique Mauve-DK	132	51	125	49	113	44
3733	Dusty Rose	19	7	18	7	16	6
3740	Antique Violet-DK	107	42	102	40	92	36
3753	Antique Blue-UL VY LT	24	9	23	9	21	8
3756	Baby Blue-UL VY LT	72	28	69	27	62	24
3772	Desert Sand-VY DK	521	205	496	195	447	175
3778	Terra Cotta-LT	10	3	9	3	8	3
3779	Terra Cotta-UL VY LT	33	12	32	12	29	11
3781	Mocha Brown-DK	220	86	209	82	188	74
3782	Mocha Brown-LT	365	143	348	137	313	123
3787	Brown Gray -DK	357	140	340	133	306	120
3790	Beige Gray-UL DK	577	227	549	216	494	194
3799	Pewter Gray -VY DK	42	16	40	15	36	14
3823	Yellow -UL Pale	591	232	563	221	506	199
3827	Golden Brown-Pale	43	16	41	16	37	14
3828	Hazelnut Brown	340	133	324	127	292	114
3829	Old Gold-VY DK	20	7	19	7	17	6
3856	Mahogany-UL VY LT	66	25	63	24	56	22
3861	Cocoa-LT	165	64	157	61	141	55
3862	Mocha Beige-DK	774	304	737	290	664	261
3863	Mocha Beige-MD	760	299	724	285	651	256
3864	Mocha Beige-LT	661	260	629	247	566	222
3865	Winter White	21	8	20	7	18	7

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Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
221	Shell Pink-VY DK	160	63	134	53	67	26
223	Shell Pink-LT	491	193	410	161	205	80
224	Shell Pink-VY LT	211	83	176	69	88	35
300	Mahogany-VY DK	554	218	462	182	231	91
316	Antique Mauve-MD	5	2	5	2	2	1
353	Peach	52	20	44	17	22	8
356	Terra Cotta-MD	131	50	110	42	55	21
369	Pistachio Green-VY LT	160	63	134	53	67	26
370	Mustard-MD	749	293	624	245	312	122
371	Mustard	200	77	167	65	83	32
372	Mustard-LT	1192	468	993	390	497	195
407	Desert Sand-DK	94	36	78	30	39	15
413	Pewter Gray -DK	20	7	17	6	8	3
415	Pearl Gray	70	27	59	23	29	11
420	Hazelnut Brown-DK	1085	427	905	356	452	178
422	Hazelnut Brown-LT	518	203	432	170	216	85
433	Brown-MD	495	194	413	162	206	81
434	Brown-LT	531	209	443	174	221	87
435	Brown-VY LT	488	191	407	159	203	80
437	Tan-LT	72	27	60	23	30	11
445	Lemon-LT	137	52	114	44	57	22
451	Shell Gray -DK	614	241	512	201	256	101
452	Shell Gray-MD	1138	446	948	372	474	186
472	Avocado Green-UL LT	94	36	78	30	39	15
522	Fern Green	158	61	132	51	66	26
523	Fern Green-LT	94	36	78	30	39	15
524	Fern Green-VY LT	556	218	464	182	232	91
535	Ash Gray -VY LT	56	22	47	18	23	9
543	Beige Brown-UL VY LT	445	175	371	146	185	73
554	Violet-LT	32	13	27	11	14	5
581	Moss Green	14	5	12	5	6	2
610	Drab Brown-DK	1208	475	1007	396	503	198
611	Drab Brown	799	313	666	261	333	131
612	Drab Brown-LT	596	234	497	195	248	98
613	Drab Brown-VY LT	999	392	833	327	416	164
632	Desert Sand-UL VY DK	1026	403	855	336	428	168
640	Beige Gray-VY DK	1026	403	855	336	428	168
644	Beige Gray-MD	1222	481	1019	401	509	200
645	Beaver Gray-VY DK	306	119	255	99	128	50
647	Beaver Gray-MD	376	148	314	123	157	62
677	Old Gold-VY LT	117	45	98	38	49	19
704	Chartreuse-BRT	20	7	17	6	8	3
712	Cream	553	216	461	180	230	90
729	Old Gold- MD	164	63	137	53	68	26
733	Olive Green-MD	7	2	6	2	3	1
734	Olive Green-LT	106	41	89	35	44	17
738	Tan-VY LT	526	205	438	171	219	86
739	Tan-UL VY LT	229	90	191	75	95	38
745	Yellow-LT Pale	128	49	107	41	53	20
746	Off White	373	146	311	122	155	61
754	Peach-LT	38	14	32	12	16	6
758	Terra Cotta-VY LT	18	5	15	5	8	2

762	Pearl Gray-VY LT	135	52	113	44	56	22
780	Topaz-UL VY DK	36	13	30	11	15	5
782	Topaz-DK	40	14	33	12	17	6
783	Topaz-MD	68	25	57	21	29	11
801	Coffee Brown-DK	214	83	179	69	89	35
822	Beige Gray-LT	374	146	312	122	156	61
829	Golden Olive-VY DK	556	218	464	182	232	91
830	Golden Olive-DK	130	50	108	42	54	21
832	Golden Olive	112	43	93	36	47	18
833	Golden Olive-LT	25	9	21	8	11	4
838	Beige Brown-VY DK	506	198	422	165	211	83
839	Beige Brown-DK	722	283	602	236	301	118
840	Beige Brown-MD	670	263	558	219	279	110
841	Beige Brown-LT	1080	425	900	354	450	177
844	Beaver Brown-UL DK	97	38	81	32	41	16
926	Gray Green-MD	29	11	24	9	12	5
927	Gray Green-LT	279	110	233	92	116	46
928	Gray Green-VY LT	286	112	239	93	119	47
938	Coffee Brown-UL DK	646	254	539	212	269	106
975	Golden Brown-DK	695	272	579	227	290	113
3011	Khaki Green-DK	196	76	164	63	82	32
3021	Brown Gray-VY DK	49	18	41	15	20	8
3022	Brown Gray-MD	508	200	423	167	212	83
3023	Brown Gray-LT	497	194	414	162	207	81
3024	Brown Gray-VY LT	533	209	444	174	222	87
3032	Mocha Brown-MD	1235	486	1029	405	515	203
3041	Antique Violet-MD	79	31	66	26	33	13
3045	Yellow Beige-DK	364	142	303	119	152	59
3051	Green Gray-DK	121	47	101	39	50	20
3064	Desert Sand	293	115	245	96	122	48
3072	Beaver Gray-VY LT	574	225	479	188	239	94
3346	Hunter Green	31	11	26	9	13	5
3347	Yellow Green-MD	32	13	27	11	14	5
3348	Yellow Green-LT	110	43	92	36	46	18
3363	Pine Green-MD	18	5	15	5	8	2
3371	Black Brown	36	13	30	11	15	5
3721	Shell Pink-DK	565	221	471	185	236	92
3722	Shell Pink-MD	216	85	180	71	90	35
3726	Antique Mauve-DK	203	79	170	66	85	33
3733	Dusty Rose	29	11	24	9	12	5
3740	Antique Violet-DK	166	65	138	54	69	27
3753	Antique Blue-UL VY LT	38	14	32	12	16	6
3756	Baby Blue-UL VY LT	112	43	93	36	47	18
3772	Desert Sand-VY DK	805	315	671	263	335	131
3778	Terra Cotta-LT	14	5	12	5	6	2
3779	Terra Cotta-UL VY LT	52	20	44	17	22	8
3781	Mocha Brown-DK	338	133	282	111	141	56
3782	Mocha Brown-LT	563	221	470	185	235	92
3787	Brown Gray-DK	551	216	459	180	230	90
3790	Beige Gray-UL DK	889	349	741	291	371	146
3799	Pewter Gray-VY DK	65	25	54	21	27	11
3823	Yellow-UL Pale	911	358	759	299	380	149
3827	Golden Brown-Pale	67	25	56	21	28	11
3828	Hazelnut Brown	526	205	438	171	219	86
3829	Old Gold-VY DK	31	11	26	9	13	5
3856	Mahogany-UL VY LT	101	40	84	33	42	17
3861	Cocoa-LT	254	99	212	83	106	41
3862	Mocha Beige-DK	1195	470	996	392	498	196
3863	Mocha Beige-MD	1172	461	977	384	488	192

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3864	Mocha Beige-LT	1019	400	849	333	425	167
3865	Winter White	32	13	27	11	14	5

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	64	25	62	24	59	23
223	Shell Pink-LT	197	77	189	74	182	71
224	Shell Pink-VY LT	84	33	81	32	78	31
300	Mahogany-VY DK	222	87	213	84	205	81
316	Antique Mauve-MD	2	1	2	1	2	1
353	Peach	21	8	20	8	19	7
356	Terra Cotta-MD	53	20	51	19	49	19
369	Pistachio Green-VY LT	64	25	62	24	59	23
370	Mustard-MD	300	117	288	113	277	109
371	Mustard	80	31	77	30	74	29
372	Mustard-LT	477	187	458	180	441	173
407	Desert Sand-DK	37	14	36	14	35	13
413	Pewter Gray -DK	8	3	8	3	7	3
415	Pearl Gray	28	11	27	10	26	10
420	Hazelnut Brown-DK	434	171	417	164	402	158
422	Hazelnut Brown-LT	207	81	199	78	192	75
433	Brown-MD	198	78	190	75	183	72
434	Brown-LT	212	84	204	80	197	77
435	Brown-VY LT	195	76	188	73	181	71
437	Tan-LT	29	11	28	10	27	10
445	Lemon-LT	55	21	53	20	51	19
451	Shell Gray-DK	246	96	236	93	227	89
452	Shell Gray-MD	455	179	438	172	421	165
472	Avocado Green-UL LT	37	14	36	14	35	13
522	Fern Green	63	24	61	24	59	23
523	Fern Green-LT	37	14	36	14	35	13
524	Fern Green-VY LT	222	87	214	84	206	81
535	Ash Gray-VY LT	22	9	21	8	21	8
543	Beige Brown-UL VY LT	178	70	171	67	165	65
554	Violet-LT	13	5	12	5	12	5
581	Moss Green	6	2	6	2	5	2
610	Drab Brown-DK	483	190	465	183	447	176
611	Drab Brown	320	125	307	120	296	116
612	Drab Brown-LT	238	94	229	90	221	87
613	Drab Brown-VY LT	400	157	384	151	370	145
632	Desert Sand-UL VY DK	410	161	395	155	380	149
640	Beige Gray-VY DK	410	161	395	155	380	149
644	Beige Gray-MD	489	192	470	185	453	178
645	Beaver Gray-VY DK	122	48	118	46	113	44
647	Beaver Gray-MD	150	59	145	57	139	55
677	Old Gold-VY LT	47	18	45	17	43	17
704	Chartreuse-BRT	8	3	8	3	7	3
712	Cream	221	86	213	83	205	80
729	Old Gold- MD	66	25	63	24	61	23
733	Olive Green-MD	3	1	3	1	3	1
734	Olive Green-LT	42	17	41	16	39	15
738	Tan-VY LT	210	82	202	79	195	76
739	Tan-UL VY LT	91	36	88	35	85	33
745	Yellow -LT Pale	51	19	49	19	47	18
746	Off White	149	58	143	56	138	54

754	Peach-LT	15	6	15	6	14	5
758	Terra Cotta-VY LT	7	2	7	2	7	2
762	Pearl Gray-VY LT	54	21	52	20	50	19
780	Topaz-UL VY DK	14	5	14	5	13	5
782	Topaz-DK	16	6	15	6	15	5
783	Topaz-MD	27	10	26	10	25	9
801	Coffee Brown-DK	86	33	82	32	79	31
822	Beige Gray-LT	150	58	144	56	139	54
829	Golden Olive-VY DK	222	87	214	84	206	81
830	Golden Olive-DK	52	20	50	19	48	19
832	Golden Olive	45	17	43	17	41	16
833	Golden Olive-LT	10	4	10	3	9	3
838	Beige Brown-VY DK	202	79	195	76	187	73
839	Beige Brown-DK	289	113	278	109	267	105
840	Beige Brown-MD	268	105	258	101	248	97
841	Beige Brown-LT	432	170	415	163	400	157
844	Beaver Brown-UL DK	39	15	37	15	36	14
926	Gray Green-MD	12	4	11	4	11	4
927	Gray Green-LT	112	44	107	42	103	41
928	Gray Green-VY LT	114	45	110	43	106	41
938	Coffee Brown-UL DK	258	102	249	98	239	94
975	Golden Brown-DK	278	109	267	105	257	101
3011	Khaki Green-DK	78	30	75	29	73	28
3021	Brown Gray -VY DK	19	7	19	7	18	7
3022	Brown Gray -MD	203	80	195	77	188	74
3023	Brown Gray -LT	199	78	191	75	184	72
3024	Brown Gray -VY LT	213	84	205	80	197	77
3032	Mocha Brown-MD	494	194	475	187	457	180
3041	Antique Violet-MD	32	12	30	12	29	11
3045	Yellow Beige-DK	145	57	140	55	135	53
3051	Green Gray-DK	48	19	46	18	45	17
3064	Desert Sand	117	46	113	44	109	43
3072	Beaver Gray-VY LT	230	90	221	87	213	83
3346	Hunter Green	12	4	12	4	11	4
3347	Yellow Green-MD	13	5	12	5	12	5
3348	Yellow Green-LT	44	17	42	17	41	16
3363	Pine Green-MD	7	2	7	2	7	2
3371	Black Brown	14	5	14	5	13	5
3721	Shell Pink-DK	226	89	217	85	209	82
3722	Shell Pink-MD	86	34	83	33	80	31
3726	Antique Mauve-DK	81	32	78	30	75	29
3733	Dusty Rose	12	4	11	4	11	4
3740	Antique Violet-DK	66	26	64	25	61	24
3753	Antique Blue-UL VY LT	15	6	15	6	14	5
3756	Baby Blue-UL VY LT	45	17	43	17	41	16
3772	Desert Sand-VY DK	322	126	309	121	298	117
3778	Terra Cotta-LT	6	2	6	2	5	2
3779	Terra Cotta-UL VY LT	21	8	20	8	19	7
3781	Mocha Brown-DK	135	53	130	51	125	49
3782	Mocha Brown-LT	225	89	217	85	209	82
3787	Brown Gray -DK	220	86	212	83	204	80
3790	Beige Gray-UL DK	356	140	342	134	329	129
3799	Pewter Gray-VY DK	26	10	25	10	24	9
3823	Yellow-UL Pale	364	143	350	138	337	133
3827	Golden BrownPale	27	10	26	10	25	9
3828	Hazelnut Brown	210	82	202	79	195	76
3829	Old Gold-VY DK	12	4	12	4	11	4
3856	Mahogany-UL VY LT	40	16	39	15	37	15
3861	Cocoa-LT	102	40	98	38	94	37

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3862	Mocha Beige-DK	478	188	460	181	443	174
3863	Mocha Beige-MD	469	184	451	177	434	171
3864	Mocha Beige-LT	408	160	392	154	377	148
3865	Winter White	13	5	12	5	12	5

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	57	23	53	21	50	20
223	Shell Pink-LT	176	69	164	64	154	60
224	Shell Pink-VY LT	75	30	70	28	66	26
300	Mahogany-VY DK	198	78	185	73	173	68
316	Antique Mauve-MD	2	1	2	1	2	1
353	Peach	19	7	17	7	16	6
356	Terra Cotta-MD	47	18	44	17	41	16
369	Pistachio Green-VY LT	57	23	53	21	50	20
370	Mustard-MD	267	105	250	98	234	92
371	Mustard	71	28	67	26	62	24
372	Mustard-LT	426	167	397	156	372	146
407	Desert Sand-DK	33	13	31	12	29	11
413	Pewter Gray -DK	7	3	7	2	6	2
415	Pearl Gray	25	10	23	9	22	8
420	Hazelnut Brown-DK	388	152	362	142	339	133
422	Hazelnut Brown-LT	185	73	173	68	162	64
433	Brown-MD	177	69	165	65	155	61
434	Brown-LT	190	75	177	70	166	65
435	Brown-VY LT	174	68	163	64	152	60
437	Tan-LT	26	10	24	9	23	8
445	Lemon-LT	49	19	46	17	43	16
451	Shell Gray-DK	219	86	205	80	192	75
452	Shell Gray-MD	406	159	379	149	356	140
472	Avocado Green-UL LT	33	13	31	12	29	11
522	Fern Green	57	22	53	20	50	19
523	Fern Green-LT	33	13	31	12	29	11
524	Fern Green-VY LT	199	78	185	73	174	68
535	Ash Gray-VY LT	20	8	19	7	17	7
543	Beige Brown-UL VY LT	159	62	148	58	139	55
554	Violet-LT	12	5	11	4	10	4
581	Moss Green	5	2	5	2	5	2
610	Drab Brown-DK	431	170	403	158	377	149
611	Drab Brown	285	112	266	104	250	98
612	Drab Brown-LT	213	84	199	78	186	73
613	Drab Brown-VY LT	357	140	333	131	312	123
632	Desert Sand-UL VY DK	366	144	342	134	321	126
640	Beige Gray-VY DK	366	144	342	134	321	126
644	Beige Gray-MD	437	172	407	160	382	150
645	Beaver Gray-VY DK	109	42	102	40	96	37
647	Beaver Gray-MD	134	53	125	49	118	46
677	Old Gold-VY LT	42	16	39	15	37	14
704	Chartreuse-BRT	7	3	7	2	6	2
712	Cream	197	77	184	72	173	68
729	Old Gold- MD	59	23	55	21	51	20
733	Olive Green-MD	3	1	2	1	2	1
734	Olive Green-LT	38	15	35	14	33	13
738	Tan-VY LT	188	73	175	68	164	64
739	Tan-UL VY LT	82	32	76	30	71	28
745	Yellow -LT Pale	46	17	43	16	40	15

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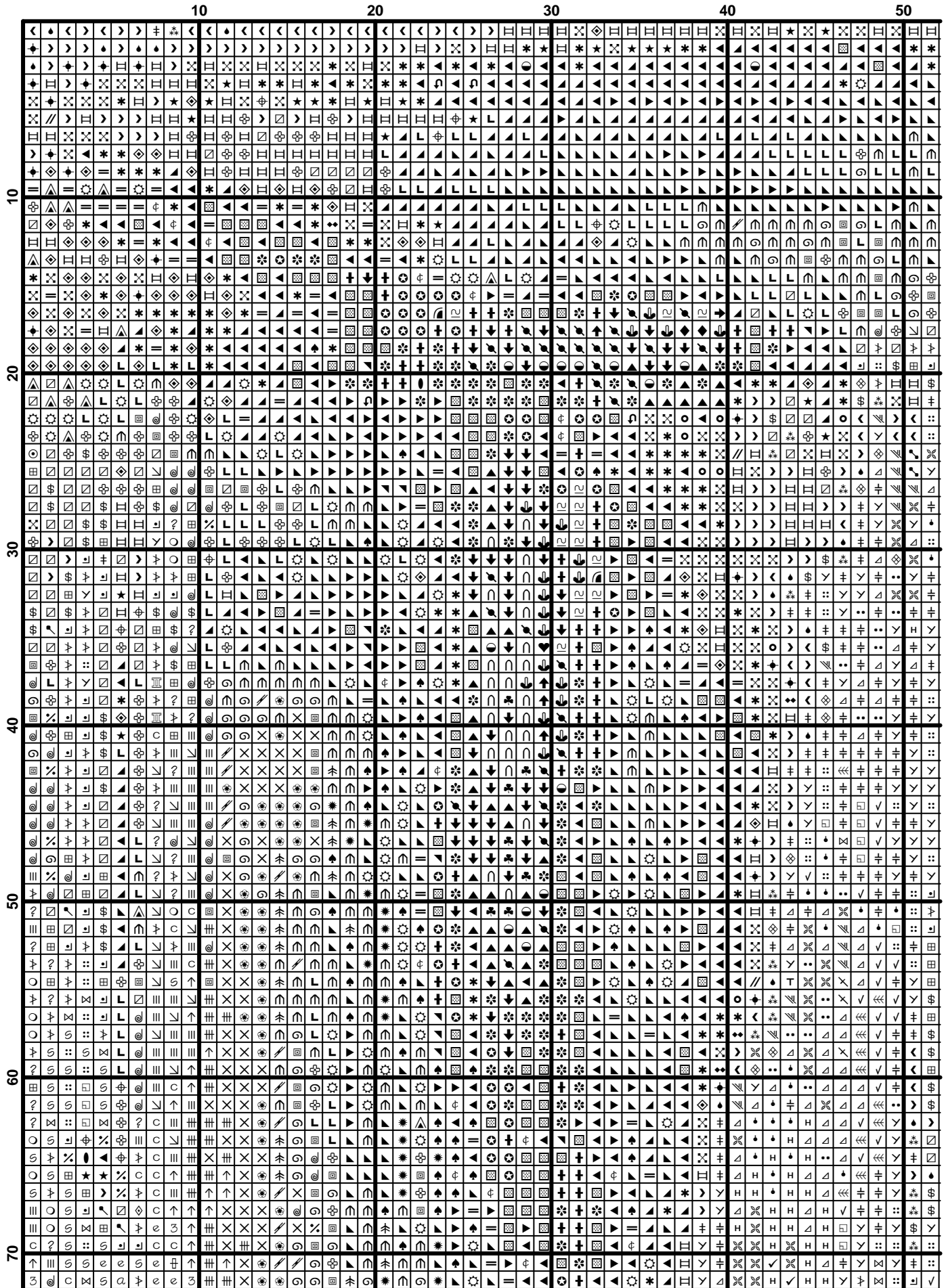
746	Off White	133	52	124	49	116	46
754	Peach-LT	14	5	13	5	12	5
758	Terra Cotta-VY LT	6	2	6	2	6	2
762	Pearl Gray-VY LT	48	19	45	17	42	16
780	Topaz-UL VY DK	13	5	12	4	11	4
782	Topaz-DK	14	5	13	5	12	5
783	Topaz-MD	24	9	23	8	21	8
801	Coffee Brown-DK	77	30	71	28	67	26
822	Beige Gray-LT	134	52	125	49	117	46
829	Golden Olive-VY DK	199	78	185	73	174	68
830	Golden Olive-DK	46	18	43	17	41	16
832	Golden Olive	40	15	37	14	35	14
833	Golden Olive-LT	9	3	8	3	8	3
838	Beige Brown-VY DK	181	71	169	66	158	62
839	Beige Brown-DK	258	101	241	94	226	88
840	Beige Brown-MD	239	94	223	88	209	82
841	Beige Brown-LT	386	152	360	142	338	133
844	Beaver Brown-UL DK	35	14	32	13	30	12
926	Gray Green-MD	10	4	10	4	9	3
927	Gray Green-LT	100	39	93	37	87	34
928	Gray Green-VY LT	102	40	95	37	89	35
938	Coffee Brown-UL DK	231	91	215	85	202	79
975	Golden Brown-DK	248	97	232	91	217	85
3011	Khaki Green-DK	70	27	65	25	61	24
3021	Brown Gray-VY DK	17	6	16	6	15	6
3022	Brown Gray-MD	181	71	169	67	159	62
3023	Brown Gray-LT	177	69	166	65	155	61
3024	Brown Gray-VY LT	190	75	178	70	167	65
3032	Mocha Brown-MD	441	174	412	162	386	152
3041	Antique Violet-MD	28	11	26	10	25	10
3045	Yellow Beige-DK	130	51	121	47	114	44
3051	Green Gray-DK	43	17	40	16	38	15
3064	Desert Sand	105	41	98	38	92	36
3072	Beaver Gray-VY LT	205	80	191	75	179	70
3346	Hunter Green	11	4	10	4	10	3
3347	Yellow Green-MD	12	5	11	4	10	4
3348	Yellow Green-LT	39	15	37	14	34	14
3363	Pine Green-MD	6	2	6	2	6	2
3371	Black Brown	13	5	12	4	11	4
3721	Shell Pink-DK	202	79	188	74	177	69
3722	Shell Pink-MD	77	30	72	28	68	26
3726	Antique Mauve-DK	73	28	68	26	64	25
3733	Dusty Rose	10	4	10	4	9	3
3740	Antique Violet-DK	59	23	55	22	52	20
3753	Antique Blue-UL VY LT	14	5	13	5	12	5
3756	Baby Blue-UL VY LT	40	15	37	14	35	14
3772	Desert Sand-VY DK	287	113	268	105	251	98
3778	Terra Cotta-LT	5	2	5	2	5	2
3779	Terra Cotta-UL VY LT	19	7	17	7	16	6
3781	Mocha Brown-DK	121	48	113	44	106	42
3782	Mocha Brown-LT	201	79	188	74	176	69
3787	Brown Gray-DK	197	77	184	72	172	68
3790	Beige Gray-UL DK	318	125	296	116	278	109
3799	Pewter Gray-VY DK	23	9	22	8	20	8
3823	Yellow-UL Pale	325	128	304	119	285	112
3827	Golden Brown-Pale	24	9	22	8	21	8
3828	Hazelnut Brown	188	73	175	68	164	64
3829	Old Gold-VY DK	11	4	10	4	10	3
3856	Mahogany-UL VY LT	36	14	34	13	32	12

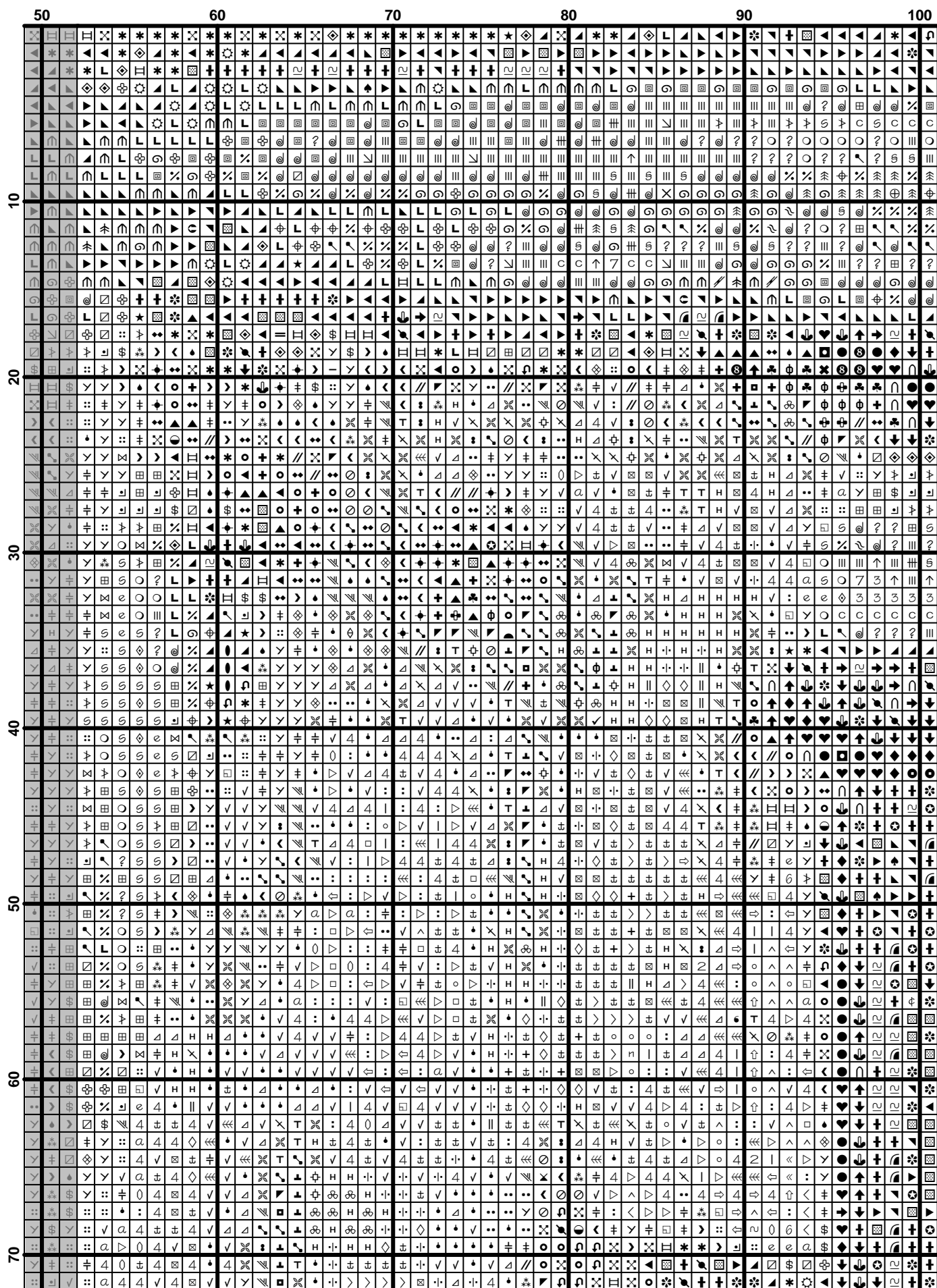
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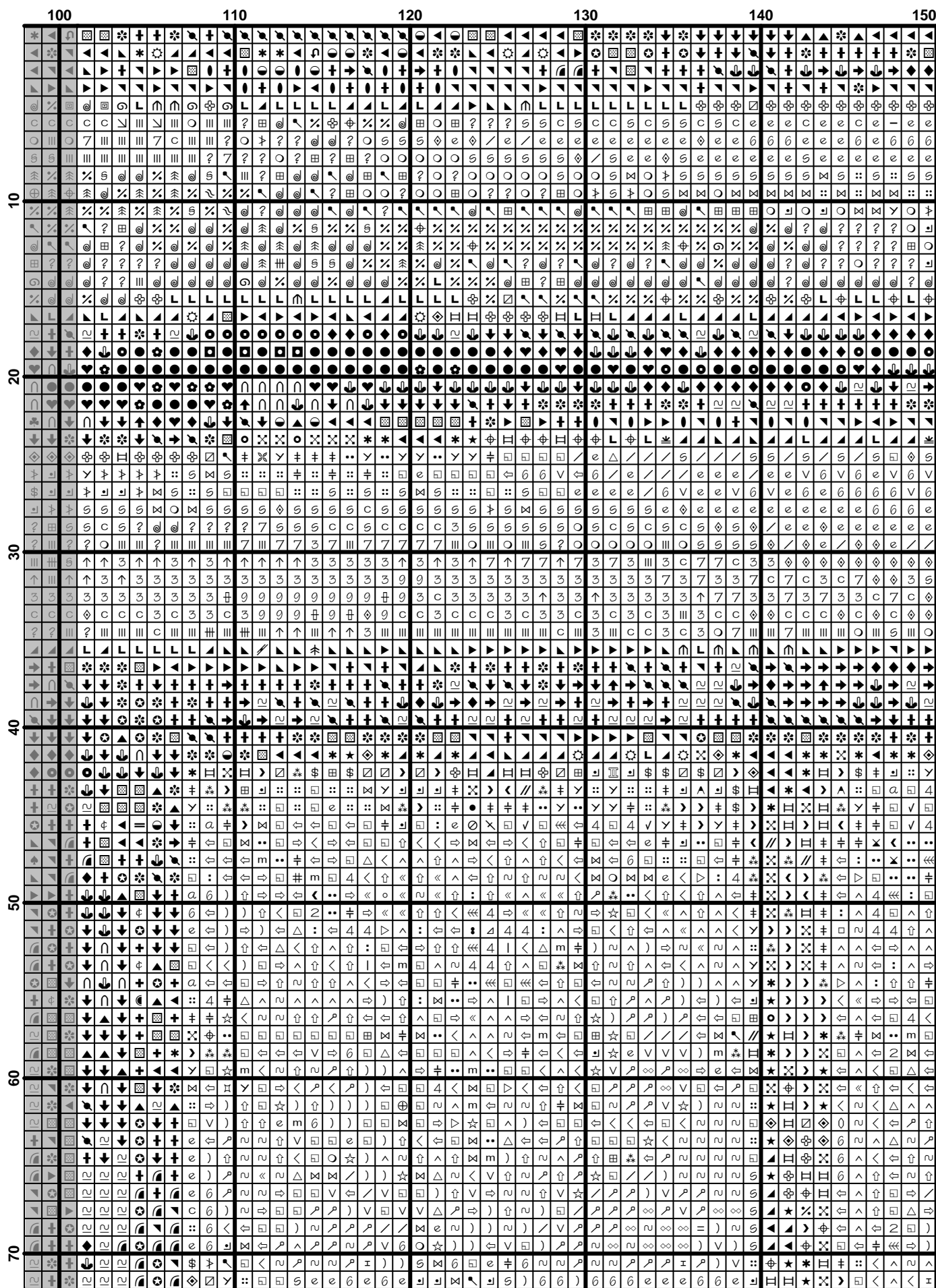
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3861	Cocoa-LT	91	35	85	33	79	31
3862	Mocha Beige-DK	427	168	398	157	374	147
3863	Mocha Beige-MD	419	165	391	154	366	144
3864	Mocha Beige-LT	364	143	340	133	318	125
3865	Winter White	12	5	11	4	10	4

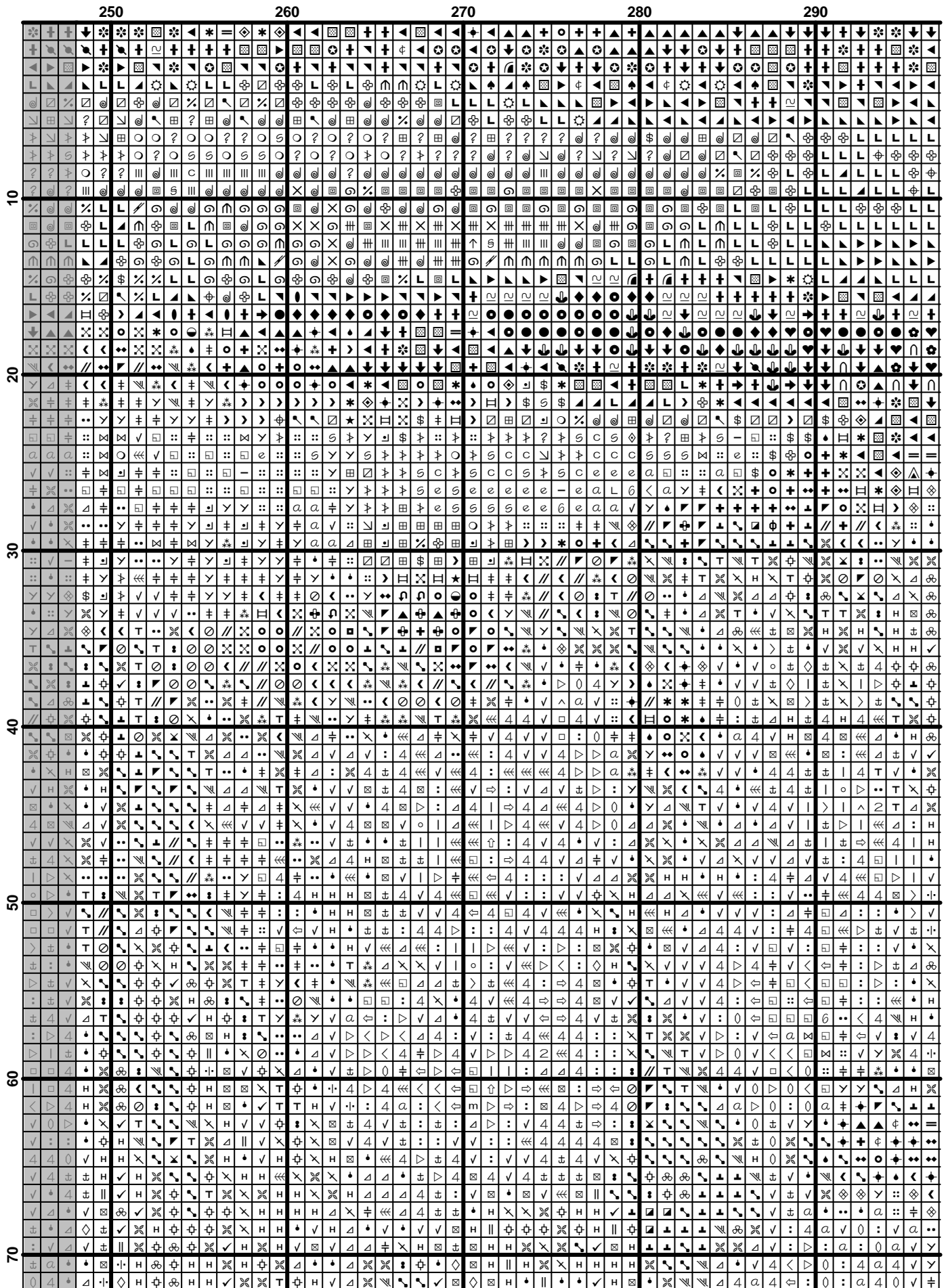


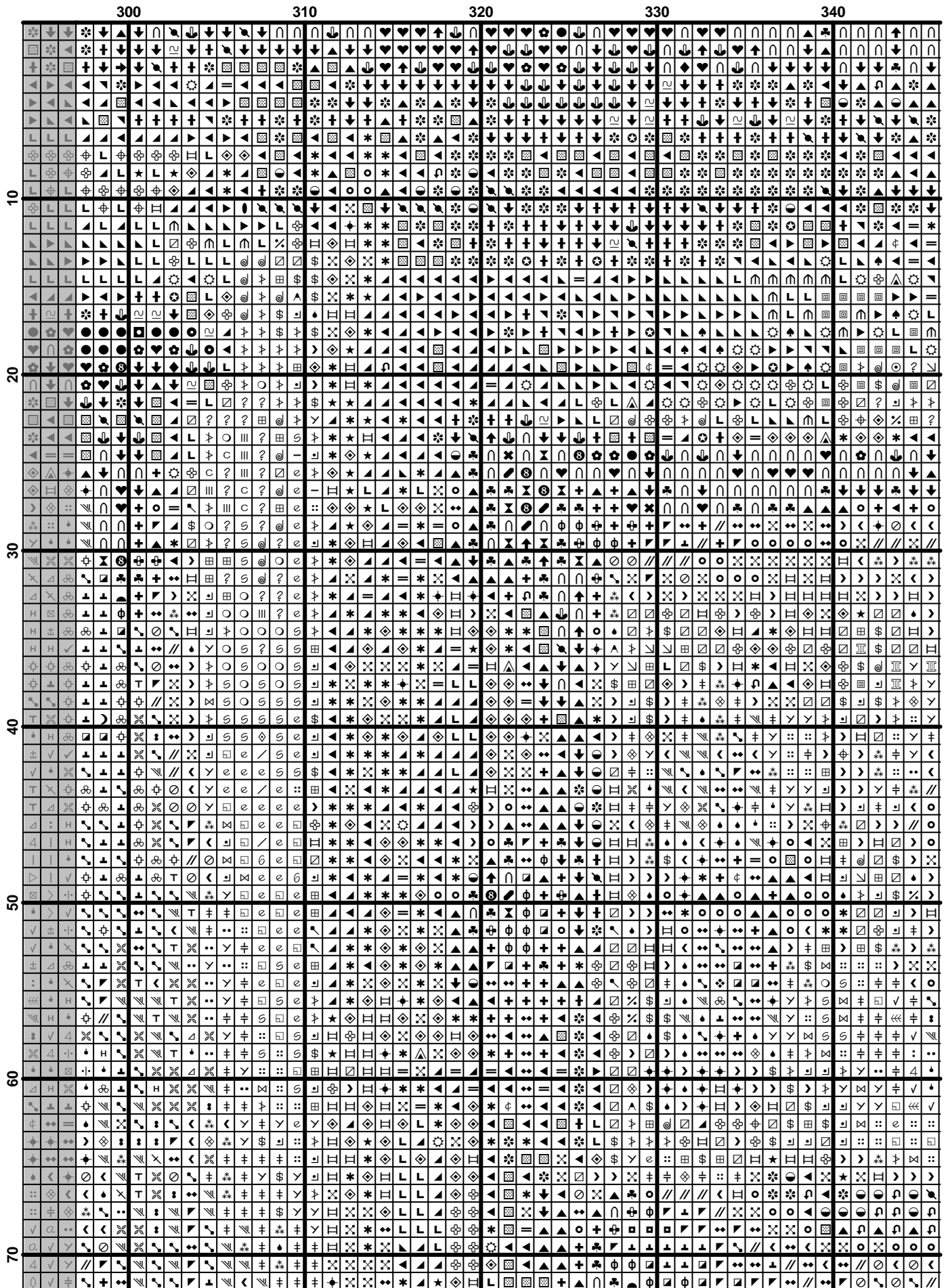


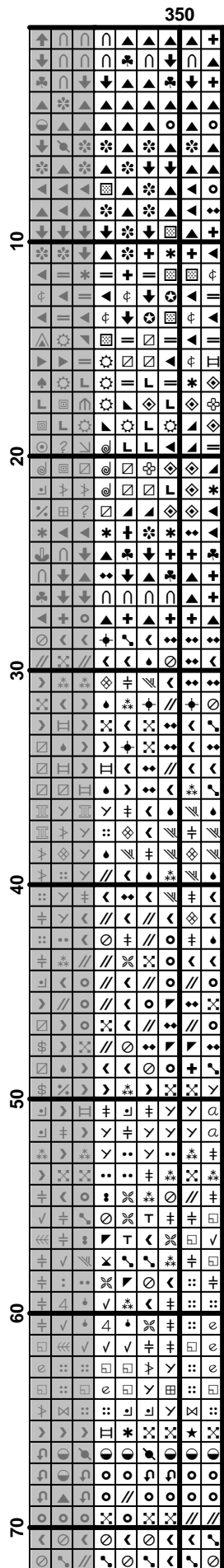


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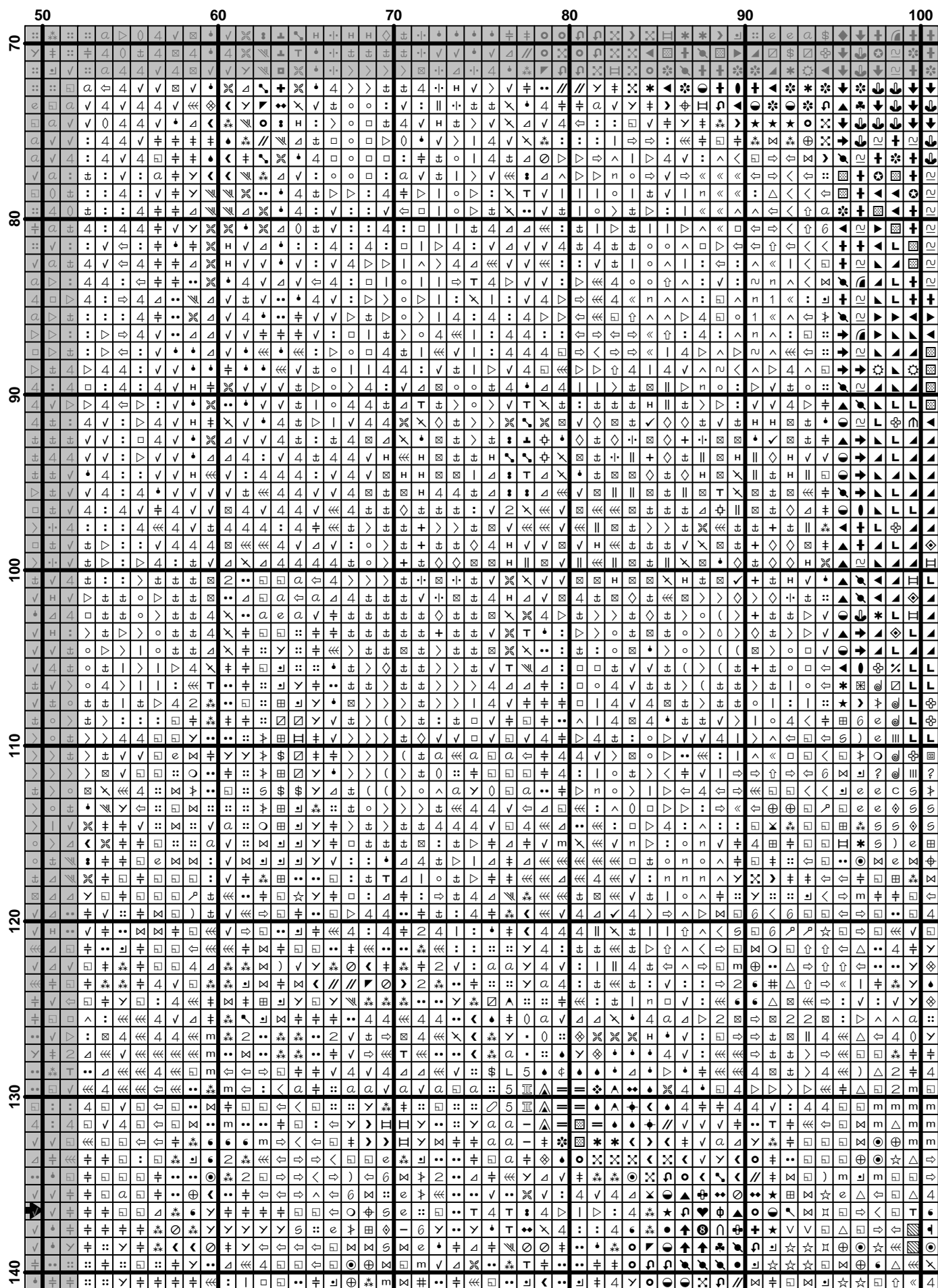
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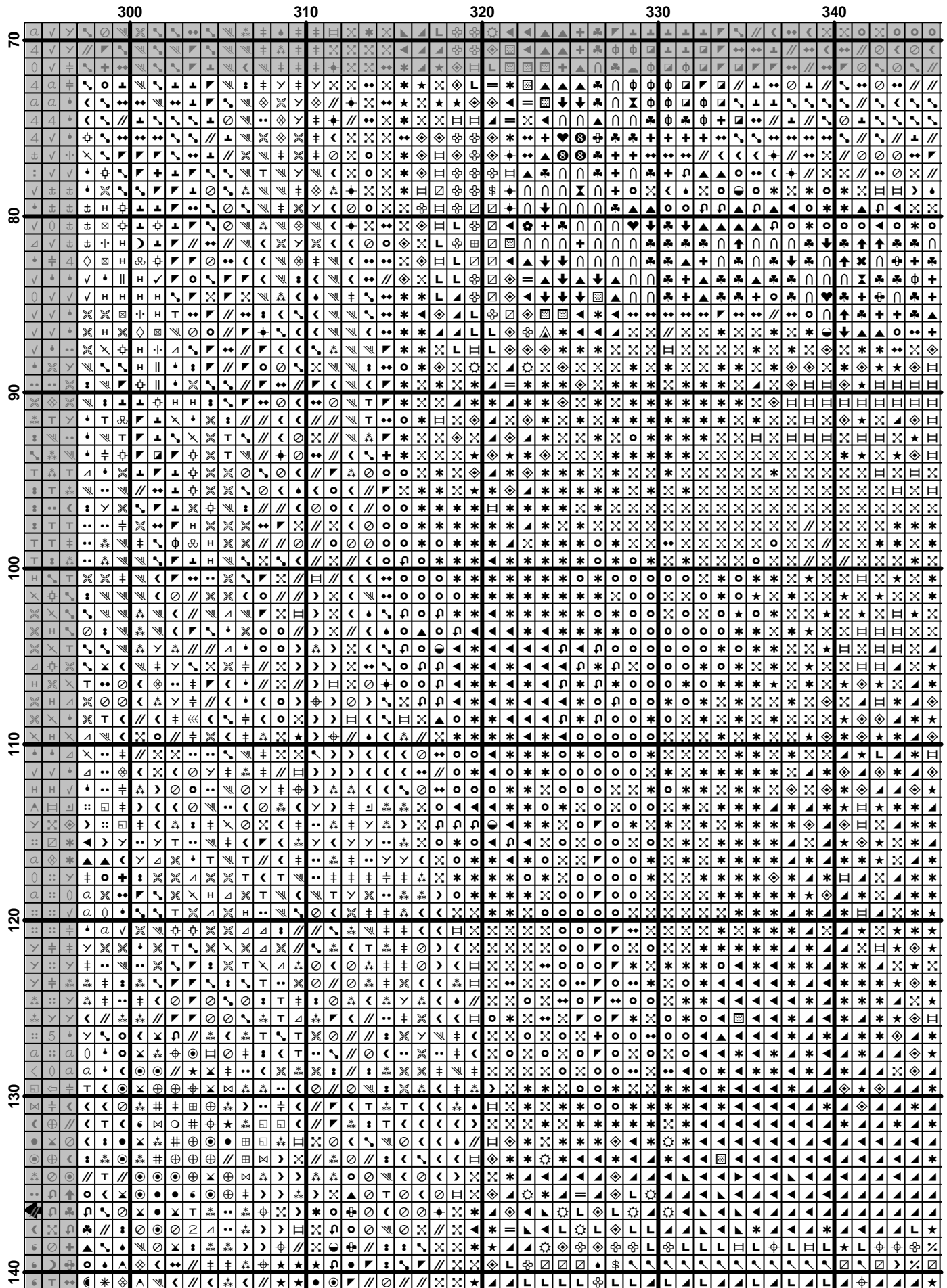


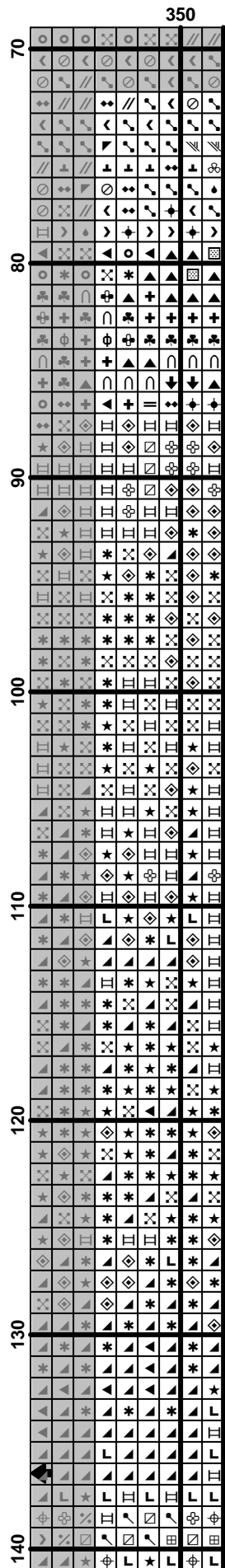
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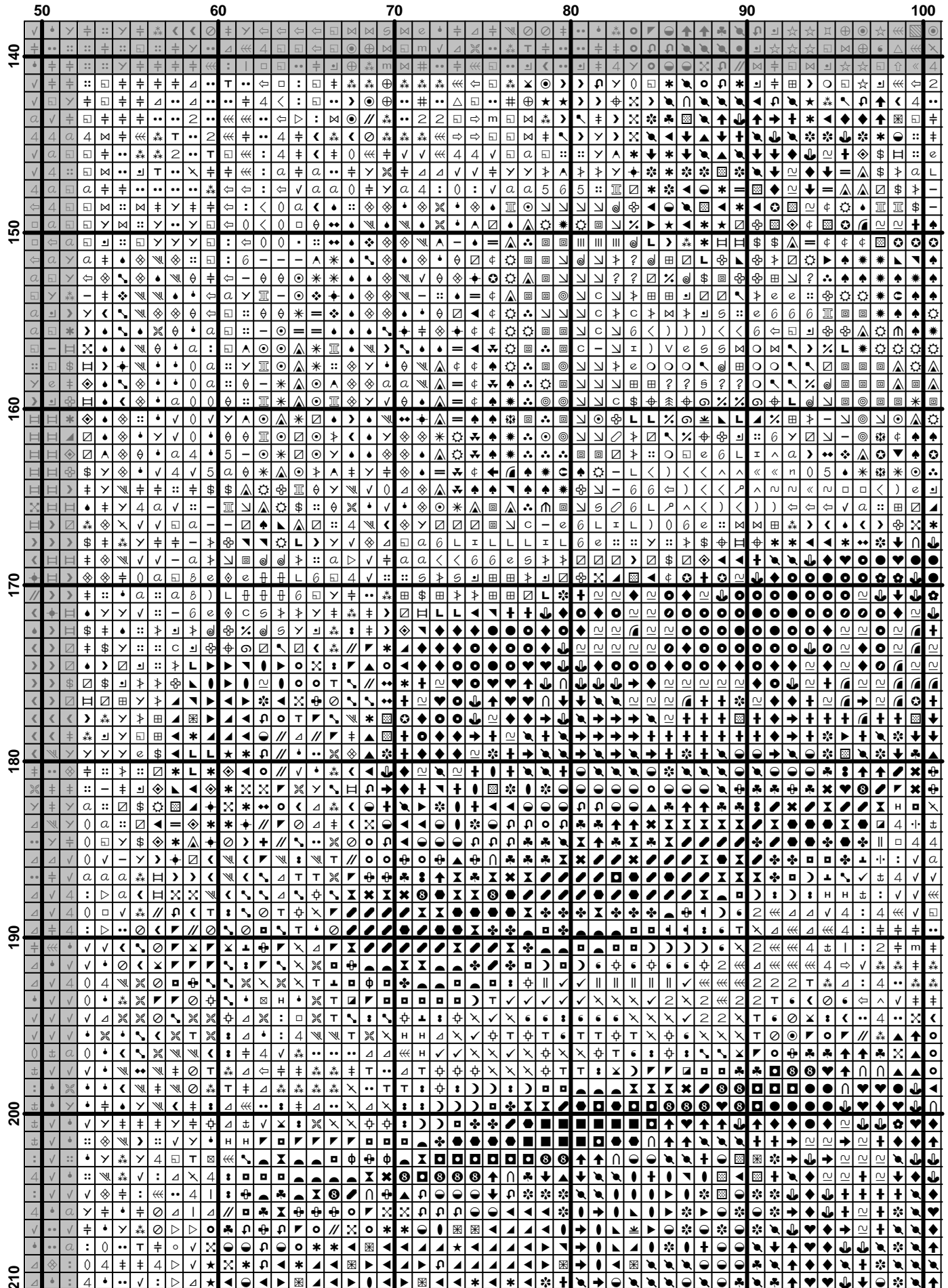
$$(21) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (22)$$

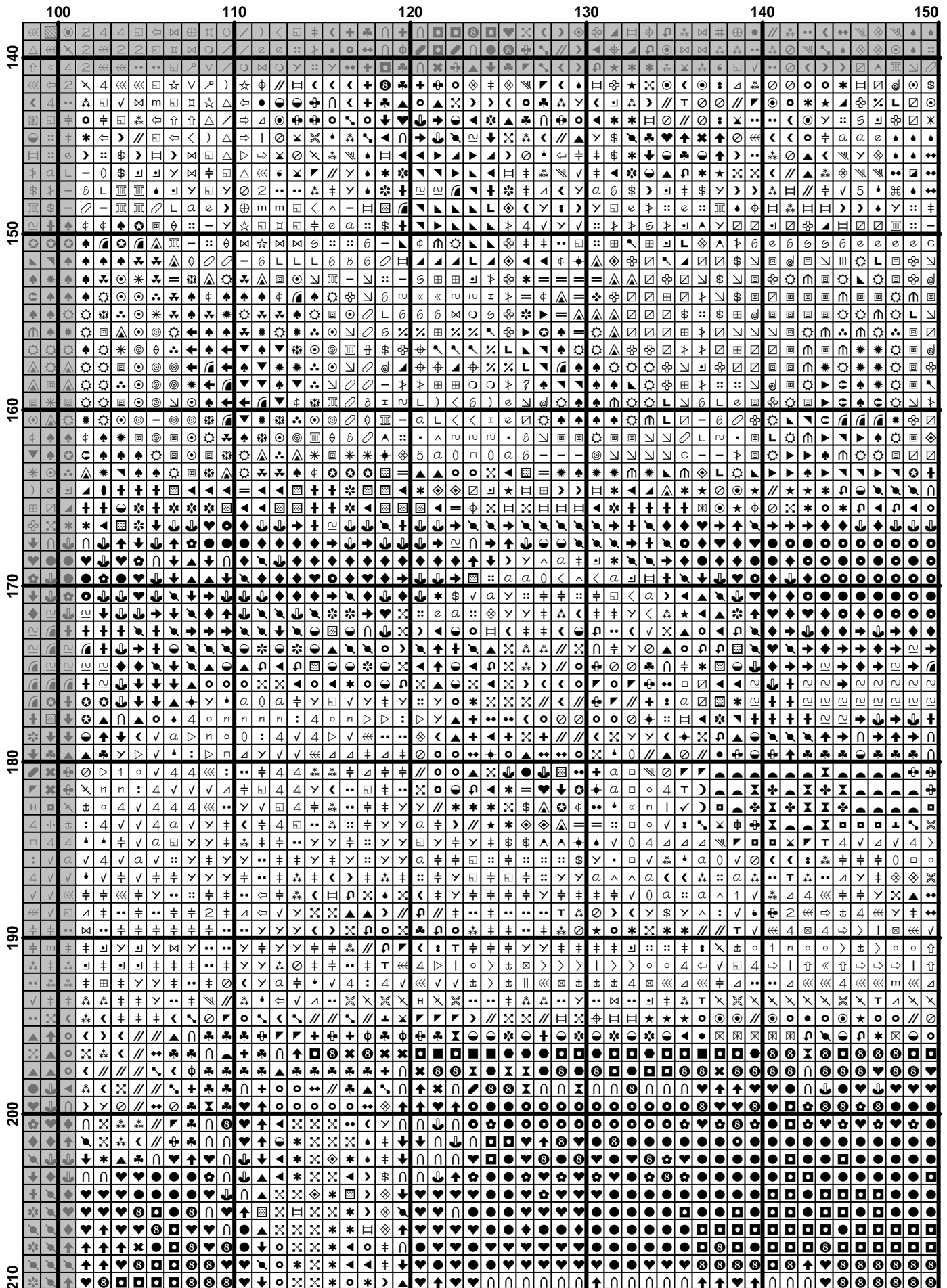
$$(22) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (23)$$

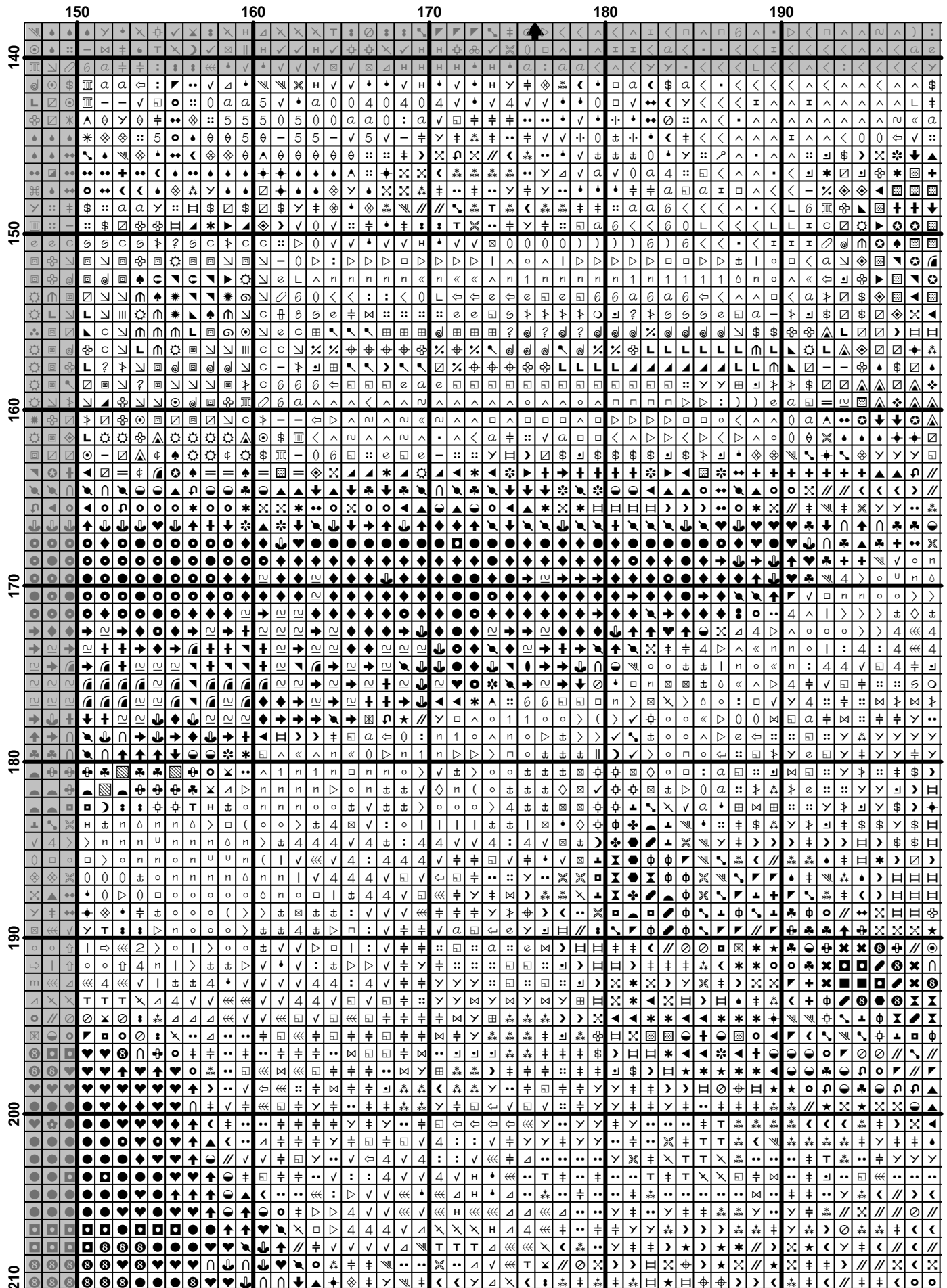


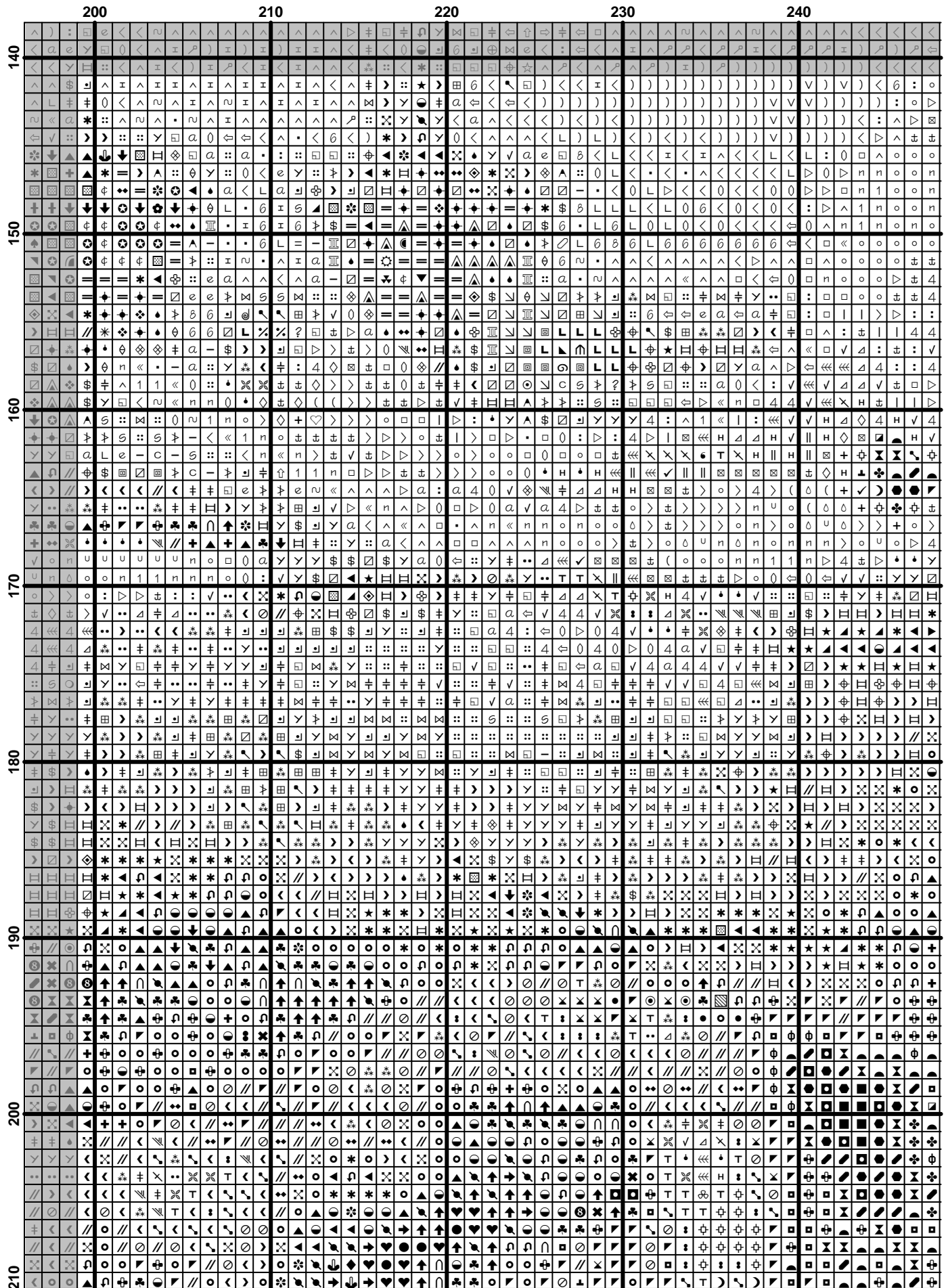


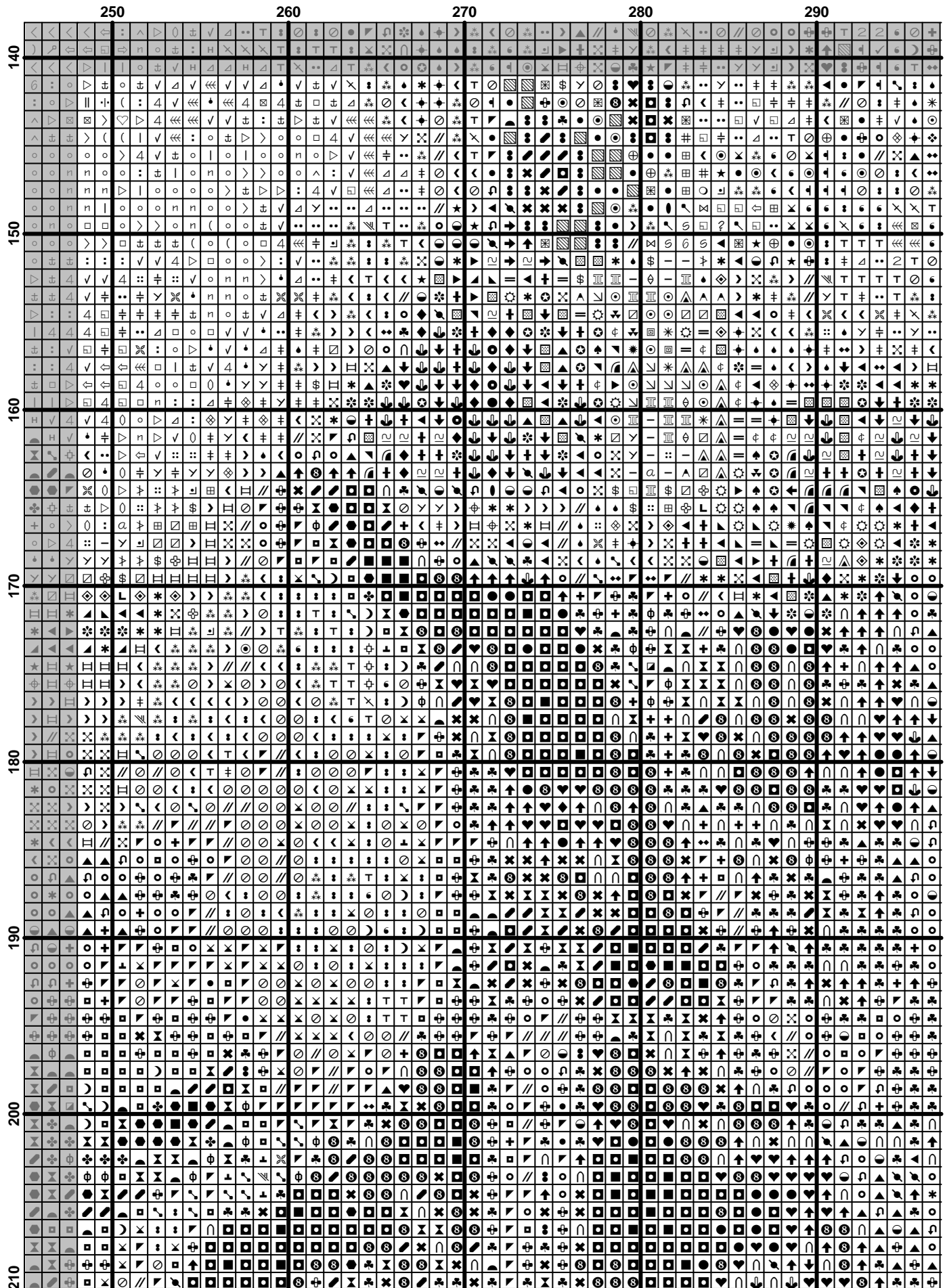
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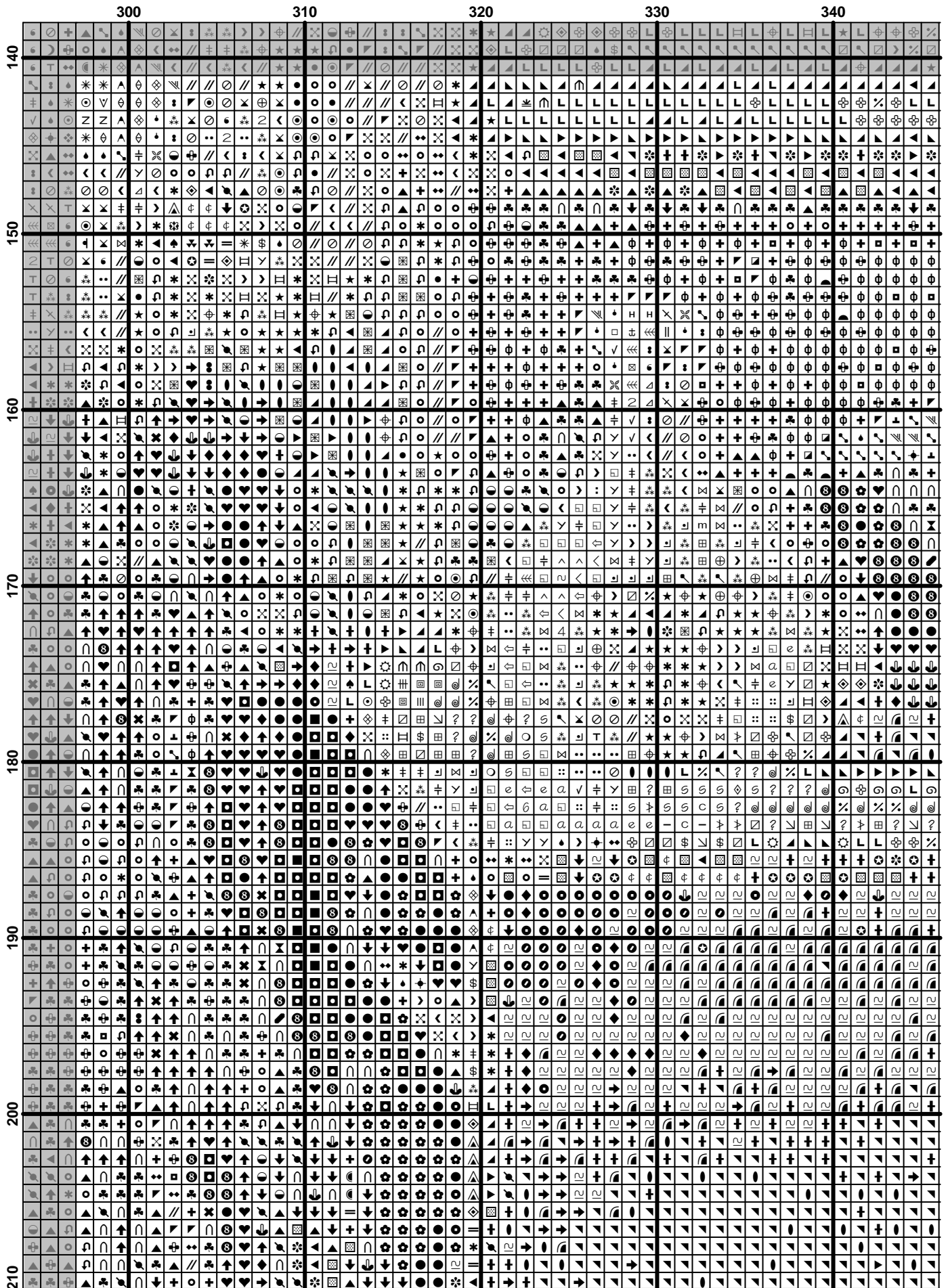


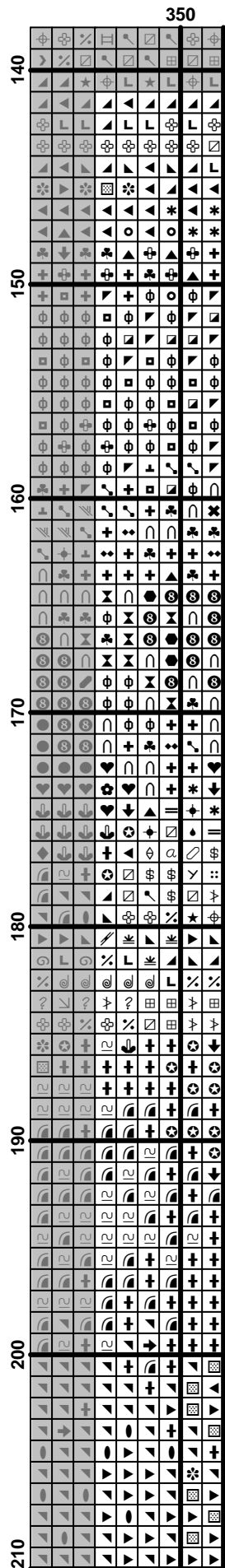












[illegible]

