

## 2559 Apple Dumplings



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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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## Apple Dumplings

Stitch Count	
Horizontal:	600
Vertical:	456

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:	109	42.75	83	32.46	95	37.4	73	28.4	85	33.25	65	25.25
Including Margins:	125	49	99	39	111	44	89	35	101	40	81	32
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	152	59.85	116	45.44	127	49.87	96	37.87	63	24.93	48	18.93
Including Margins:	168	66	132	52	143	56	112	44	79	31	64	25
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	61	23.94	46	18.17	58	23.01	44	17.47	56	22.16	43	16.83
Including Margins:	77	30	62	25	74	30	60	24	72	29	59	23
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	54	21.37	41	16.23	50	19.95	38	15.14	47	18.7	36	14.2
Including Margins:	70	28	57	23	66	26	54	22	63	25	52	21

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

Symbol	DMC	Name
√	211	Lavender-LT
⌘	224	Shell Pink-VY LT
■	301	Mahogany-MD
■	317	Pewter Gray
≡	318	Steel Gray-LT
✓	341	Blue Violet-LT
:	353	Peach
⌚	356	Terra Cotta-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
⊗	434	Brown-LT
∇	437	Tan-LT
◇	451	Shell Gray-DK
=	452	Shell Gray-MD
♣	471	Avocado Green-VY LT
✱	522	Fern Green
⊞	523	Fern Green-LT
⋯	524	Fern Green-VY LT
♠	543	Beige Brown-UL VY LT
♣	580	Moss Green-DK
⌋	611	Drab Brown
◁	613	Drab Brown-VY LT
⊕	632	Desert Sand-UL VY DK
✕	640	Beige Gray-VY DK
≡	644	Beige Gray-MD
⌋	677	Old Gold-VY LT
∞	712	Cream
⌚	722	Orange Spice-LT
↔	726	Topaz-LT
⟩	727	Topaz-VY LT
●	730	Olive Green-VY DK
▼	732	Olive Green
—	738	Tan-VY LT
△	739	Tan-UL VY LT
/	754	Peach-LT
◇	762	Pearl Gray-VY LT
∇	775	Baby Blue-VY LT
⊞	778	Antique Mauve-VY LT
⬆	801	Coffee Brown-DK
n	819	Baby Pink-LT
⇒	822	Beige Gray-LT
■	823	Navy Blue-DK
◇	833	Golden Olive-LT
◆	838	Beige Brown-VY DK
♣	839	Beige Brown-DK
♠	869	Hazelnut Brown-VY DK
⊙	920	Copper-MD
▲	921	Copper

⦶	922	Copper-LT
✕	927	Gray Green-LT
✚	931	Antique Blue-MD
⦿	935	Avocado Green-DK
⦿	937	Avocado Green-MD
☼	938	Coffee Brown-UL DK
•	948	Peach-VY LT
#	977	Golden Brown-LT
►	3011	Khaki Green-DK
◊	3024	Brown Gray-VY LT
♥	3031	Mocha Brown-VY DK
‡	3032	Mocha Brown-MD
±	3033	Mocha Brown-VY LT
⦿	3041	Antique Violet-MD
↘	3042	Antique Violet-LT
⦿	3045	Yellow Beige-DK
<	3047	Yellow Beige-LT
L	3052	Green Gray-MD
◊	3053	Green Gray
↖	3064	Desert Sand
0	3072	Beaver Gray-VY LT
(	3078	Golden Yellow-VY LT
\$	3340	Apricot-MD
m	3341	Apricot
≡	3346	Hunter Green
❖	3363	Pine Green-MD
■	3371	Black Brown
+	3721	Shell Pink-DK
▨	3740	Antique Violet-DK
c	3753	Antique Blue-UL VY LT
o	3756	Baby Blue-UL VY LT
▲	3768	Gray Green-DK
∞	3770	Tawny-VY LT
☐	3778	Terra Cotta-LT
×	3782	Mocha Brown-LT
☞	3799	Pewter Gray-VY DK
8	3822	Straw-LT
5	3824	Apricot-LT
□	3825	Pumpkin-Pale
+	3827	Golden Brown-Pale
⊕	3828	Hazelnut Brown
☉	3829	Old Gold-VY DK
☾	3830	Terra Cotta-MD
•	3853	Autumn Gold-DK
::	3854	Autumn Gold-MD
L	3855	Autumn Gold-LT
☐	3856	Mahogany-UL VY LT
►	3861	Cocoa-LT
▲	3863	Mocha Beige-MD
1	3865	Winter White
)	3866	Mocha Brown-UL VY LT
^	Ecru	Ecru

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

Symbol	DMC1	Name1	DMC2	Name2
u	1	White 1	3865	Winter White
2	210	Lavender-MD	415	Pearl Gray
➔	221	Shell Pink-VY DK	801	Coffee Brown-DK
☯	221	Shell Pink-VY DK	838	Beige Brown-VY DK
♣	221	Shell Pink-VY DK	869	Hazelnut Brown-VY DK
●	221	Shell Pink-VY DK	920	Copper-MD
▼	221	Shell Pink-VY DK	3862	Mocha Beige-DK
⋈	224	Shell Pink-VY LT	613	Drab Brown-VY LT
☆	224	Shell Pink-VY LT	3856	Mahogany-UL VY LT
*	301	Mahogany-MD	420	Hazelnut Brown-DK
☾	312	Baby Blue-VY DK	317	Pewter Gray
♠	317	Pewter Gray	414	Steel Gray-DK
■	317	Pewter Gray	3740	Antique Violet-DK
4	353	Peach	754	Peach-LT
♡	353	Peach	948	Peach-VY LT
▷	353	Peach	3078	Golden Yellow-VY LT
9	353	Peach	3824	Apricot-LT
▲	356	Terra Cotta-MD	611	Drab Brown
✱	356	Terra Cotta-MD	632	Desert Sand-UL VY DK
⊗	356	Terra Cotta-MD	3778	Terra Cotta-LT
z	356	Terra Cotta-MD	3828	Hazelnut Brown
//	356	Terra Cotta-MD	3863	Mocha Beige-MD
e	369	Pistachio Green-VY LT	613	Drab Brown-VY LT
н	369	Pistachio Green-VY LT	738	Tan-VY LT
⋈	369	Pistachio Green-VY LT	739	Tan-UL VY LT
o	369	Pistachio Green-VY LT	3855	Autumn Gold-LT
✂	371	Mustard	3052	Green Gray-MD
o	407	Desert Sand-DK	754	Peach-LT
⋈	407	Desert Sand-DK	3032	Mocha Brown-MD
x	407	Desert Sand-DK	3778	Terra Cotta-LT
⊗	407	Desert Sand-DK	3782	Mocha Brown-LT
✱	413	Pewter Gray-DK	823	Navy Blue-DK
⊕	414	Steel Gray-DK	932	Antique Blue-LT
◀	414	Steel Gray-DK	3042	Antique Violet-LT
⊕	422	Hazelnut Brown-LT	738	Tan-VY LT
н	422	Hazelnut Brown-LT	3053	Green Gray
у	437	Tan-LT	760	Salmon
g	437	Tan-LT	3064	Desert Sand
н	451	Shell Gray-DK	3032	Mocha Brown-MD
=	451	Shell Gray-DK	3740	Antique Violet-DK
Δ	452	Shell Gray-MD	613	Drab Brown-VY LT
▣	501	Blue Green-DK	3011	Khaki Green-DK
☙	522	Fern Green	523	Fern Green-LT
☙	522	Fern Green	3052	Green Gray-MD
g	523	Fern Green-LT	369	Pistachio Green-VY LT
н	523	Fern Green-LT	452	Shell Gray-MD
✱	523	Fern Green-LT	613	Drab Brown-VY LT
⋈	523	Fern Green-LT	738	Tan-VY LT
☙	523	Fern Green-LT	3782	Mocha Brown-LT
▣	543	Beige Brown-UL VY LT	778	Antique Mauve-VY LT
✱	611	Drab Brown	632	Desert Sand-UL VY DK
н	611	Drab Brown	3052	Green Gray-MD
7	613	Drab Brown-VY LT	738	Tan-VY LT
◇	613	Drab Brown-VY LT	739	Tan-UL VY LT

◦	632	Desert Sand-UL VY DK	640	Beige Gray-VY DK
↓	632	Desert Sand-UL VY DK	801	Coffee Brown-DK
♢	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
●	632	Desert Sand-UL VY DK	3863	Mocha Beige-MD
◀	640	Beige Gray-VY DK	3740	Antique Violet-DK
	712	Cream	762	Pearl Gray-VY LT
▤	730	Olive Green-VY DK	801	Coffee Brown-DK
	738	Tan-VY LT	3053	Green Gray
◇	738	Tan-VY LT	3782	Mocha Brown-LT
	754	Peach-LT	3782	Mocha Brown-LT
^	760	Salmon	3778	Terra Cotta-LT
↑	801	Coffee Brown-DK	838	Beige Brown-VY DK
↘	801	Coffee Brown-DK	869	Hazelnut Brown-VY DK
←	801	Coffee Brown-DK	937	Avocado Green-MD
↓	801	Coffee Brown-DK	938	Coffee Brown-UL DK
◊	819	Baby Pink-LT	3756	Baby Blue-UL VY LT
«	819	Baby Pink-LT	3865	Winter White
●	823	Navy Blue-DK	935	Avocado Green-DK
⊙	823	Navy Blue-DK	3799	Pewter Gray-VY DK
✱	839	Beige Brown-DK	3011	Khaki Green-DK
⌘	922	Copper-LT	3828	Hazelnut Brown
★	922	Copper-LT	3830	Terra Cotta-MD
⚙	926	Gray Green-MD	3041	Antique Violet-MD
▼	931	Antique Blue-MD	3041	Antique Violet-MD
⌘	937	Avocado Green-MD	938	Coffee Brown-UL DK
●	938	Coffee Brown-UL DK	3371	Black Brown
↑	948	Peach-VY LT	3770	Tawny-VY LT
†	977	Golden Brown-LT	3064	Desert Sand
✂	3032	Mocha Brown-MD	3053	Green Gray
✂	3032	Mocha Brown-MD	3863	Mocha Beige-MD
⦿	3045	Yellow Beige-DK	3053	Green Gray
⦿	3052	Green Gray-MD	3053	Green Gray
▣	3064	Desert Sand	3828	Hazelnut Brown
?	3341	Apricot	3856	Mahogany-UL VY LT
♦♦	3363	Pine Green-MD	3862	Mocha Beige-DK
▣	3768	Gray Green-DK	3799	Pewter Gray-VY DK
τ	3782	Mocha Brown-LT	3861	Cocoa-LT
∩	3822	Straw-LT	3827	Golden Brown-Pale
⋯	3828	Hazelnut Brown	3863	Mocha Beige-MD
α	3855	Autumn Gold-LT	3856	Mahogany-UL VY LT
□	ecru	Ecru	3866	Mocha Brown-UL VY LT

This table specifies how much thread of each color is required to stitch this pattern. It is good to know that one complete DMC skein contains 313 inches (795 cm) thread.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
1	White 1	1021	401	972	382	875	344
210	Lavender-MD	39	15	38	14	34	13
211	Lavender-LT	60	23	57	22	52	20
221	Shell Pink-VY DK	215	84	205	80	184	72
224	Shell Pink-VY LT	243	95	232	91	209	82
301	Mahogany-MD	28	11	27	10	24	9
312	Baby Blue-VY DK	25	9	24	9	22	8
317	Pewter Gray	468	184	446	175	401	157
318	Steel Gray-LT	165	64	157	61	141	55
341	Blue Violet-LT	18	7	17	6	16	6
353	Peach	207	81	198	77	178	70
356	Terra Cotta-MD	470	185	447	175	403	158
369	Pistachio Green-VY LT	314	123	299	117	269	105
371	Mustard	1068	420	1017	400	915	360
407	Desert Sand-DK	931	366	886	348	798	314
413	Pewter Gray-DK	162	63	154	60	139	54
414	Steel Gray-DK	922	362	878	345	790	311
415	Pearl Gray	120	47	115	45	103	40
420	Hazelnut Brown-DK	545	214	519	204	467	183
422	Hazelnut Brown-LT	606	238	577	227	520	204
434	Brown-LT	335	131	320	125	288	113
437	Tan-LT	587	231	559	220	503	198
451	Shell Gray-DK	391	153	373	146	335	131
452	Shell Gray-MD	786	309	748	294	673	264
471	Avocado Green-VY LT	18	7	17	6	15	5
501	Blue Green-DK	45	17	43	16	38	14
522	Fern Green	609	239	580	228	522	205
523	Fern Green-LT	2899	1141	2761	1087	2485	978
524	Fern Green-VY LT	107	42	102	40	92	36
543	Beige Brown-UL VY LT	828	325	789	310	710	279
580	Moss Green-DK	23	9	22	8	20	7
611	Drab Brown	1357	534	1293	509	1163	457
613	Drab Brown-VY LT	2188	861	2084	820	1876	738
632	Desert Sand-UL VY DK	964	379	918	361	826	325
640	Beige Gray-VY DK	422	166	402	158	362	142
644	Beige Gray-MD	313	123	298	117	268	105
677	Old Gold-VY LT	97	38	92	36	83	32
712	Cream	1797	707	1711	673	1540	606
722	Orange Spice-LT	4	1	4	1	4	1
726	Topaz-LT	3	1	3	1	2	1
727	Topaz-VY LT	26	10	24	9	22	8
730	Olive Green-VY DK	83	32	79	31	71	27
732	Olive Green	17	6	16	6	15	5
738	Tan-VY LT	3926	1545	3739	1472	3365	1324
739	Tan-UL VY LT	941	370	896	352	807	317
754	Peach-LT	438	172	417	164	375	147
760	Salmon	31	12	29	11	27	10
762	Pearl Gray-VY LT	417	164	397	156	358	140
775	Baby Blue-VY LT	21	8	20	7	18	7
778	Antique Mauve-VY LT	247	97	236	92	212	83
801	Coffee Brown-DK	1339	527	1276	502	1148	451
819	Baby Pink-LT	3518	1385	3351	1319	3016	1187
822	Beige Gray-LT	2910	1145	2771	1090	2494	981

823	Navy Blue-DK	65	25	62	24	56	22
833	Golden Olive-LT	4	1	4	1	4	1
838	Beige Brown-VY DK	476	187	454	178	408	160
839	Beige Brown-DK	439	172	418	164	376	148
869	Hazelnut Brown-VY DK	495	194	471	185	424	166
920	Copper-MD	5	1	5	1	4	1
921	Copper	2	1	2	1	2	1
922	Copper-LT	33	12	31	12	28	11
926	Gray Green-MD	73	28	70	27	63	24
927	Gray Green-LT	32	12	30	11	27	10
931	Antique Blue-MD	235	92	224	88	201	79
932	Antique Blue-LT	97	38	92	36	83	32
935	Avocado Green-DK	46	18	44	17	39	15
937	Avocado Green-MD	142	55	135	53	122	48
938	Coffee Brown-UL DK	748	294	712	280	641	252
948	Peach-VY LT	952	374	907	357	816	321
977	Golden Brown-LT	58	22	56	22	50	19
3011	Khaki Green-DK	536	211	511	201	460	181
3024	Brown Gray-VY LT	258	101	246	96	221	87
3031	Mocha Brown-VY DK	81	31	77	30	70	27
3032	Mocha Brown-MD	2366	931	2253	887	2028	798
3033	Mocha Brown-VY LT	162	63	155	61	139	54
3041	Antique Violet-MD	377	148	359	141	323	127
3042	Antique Violet-LT	235	92	224	88	202	79
3045	Yellow Beige-DK	804	316	765	301	689	271
3047	Yellow Beige-LT	523	205	498	196	449	176
3052	Green Gray-MD	3060	1204	2914	1147	2623	1032
3053	Green Gray	4629	1822	4408	1735	3967	1561
3064	Desert Sand	624	245	594	233	535	210
3072	Beaver Gray-VY LT	255	100	242	95	218	85
3078	Golden Yellow-VY LT	399	157	380	149	342	134
3340	Apricot-MD	4	1	4	1	3	1
3341	Apricot	10	3	10	3	9	3
3346	Hunter Green	89	35	84	33	76	29
3363	Pine Green-MD	586	230	558	219	502	197
3371	Black Brown	240	94	228	89	206	81
3721	Shell Pink-DK	4	1	4	1	4	1
3740	Antique Violet-DK	211	83	201	79	181	71
3753	Antique Blue-UL VY LT	28	11	27	10	24	9
3756	Baby Blue-UL VY LT	664	261	632	248	569	224
3768	Gray Green-DK	67	26	64	25	57	22
3770	Tawny-VY LT	1603	631	1527	601	1374	540
3778	Terra Cotta-LT	31	12	30	11	27	10
3782	Mocha Brown-LT	2396	943	2282	898	2053	808
3799	Pewter Gray-VY DK	114	44	109	42	98	38
3822	Straw-LT	24	9	22	8	20	7
3824	Apricot-LT	15	5	14	5	13	5
3825	Pumpkin-Pale	10	3	10	3	9	3
3827	Golden Brown-Pale	24	9	23	9	20	7
3828	Hazelnut Brown	872	343	831	327	748	294
3829	Old Gold-VY DK	117	46	112	44	100	39
3830	Terra Cotta-MD	11	4	10	3	9	3
3853	Autumn Gold-DK	2	1	2	1	2	1
3854	Autumn Gold-MD	7	2	7	2	6	2
3855	Autumn Gold-LT	127	50	121	47	109	42
3856	Mahogany-UL VY LT	172	67	164	64	147	57
3861	Cocoa-LT	877	345	835	328	752	296
3862	Mocha Beige-DK	474	186	451	177	406	159
3863	Mocha Beige-MD	1752	689	1669	657	1502	591

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3865	Winter White	6100	2401	5809	2287	5228	2058
3866	Mocha Brown-UL VY LT	5533	2178	5270	2074	4743	1867
ecru	Ecru	1589	625	1513	595	1362	536

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	1575	619	1313	516	656	258
210	Lavender-MD	61	23	51	20	26	10
211	Lavender-LT	94	36	78	30	39	15
221	Shell Pink-VY DK	331	130	276	108	138	54
224	Shell Pink-VY LT	376	148	314	123	157	62
301	Mahogany-MD	43	16	36	14	18	7
312	Baby Blue-VY DK	40	14	33	12	17	6
317	Pewter Gray	722	283	602	236	301	118
318	Steel Gray-LT	254	99	212	83	106	41
341	Blue Violet-LT	29	11	24	9	12	5
353	Peach	320	126	267	105	134	53
356	Terra Cotta-MD	725	284	605	237	302	119
369	Pistachio Green-VY LT	484	189	404	158	202	79
371	Mustard	1647	648	1373	540	686	270
407	Desert Sand-DK	1436	565	1197	471	599	236
413	Pewter Gray-DK	250	97	209	81	104	41
414	Steel Gray-DK	1422	560	1185	467	593	233
415	Pearl Gray	185	72	155	60	77	30
420	Hazelnut Brown-DK	841	329	701	275	350	137
422	Hazelnut Brown-LT	936	367	780	306	390	153
434	Brown-LT	518	203	432	170	216	85
437	Tan-LT	905	356	755	297	377	149
451	Shell Gray-DK	603	236	503	197	251	98
452	Shell Gray-MD	1211	475	1010	396	505	198
471	Avocado Green-VY LT	27	9	23	8	11	4
501	Blue Green-DK	68	25	57	21	29	11
522	Fern Green	940	369	783	308	392	154
523	Fern Green-LT	4473	1760	3728	1467	1864	734
524	Fern Green-VY LT	166	65	138	54	69	27
543	Beige Brown-UL VY LT	1278	502	1065	419	533	209
580	Moss Green-DK	36	13	30	11	15	5
611	Drab Brown	2093	823	1745	686	872	343
613	Drab Brown-VY LT	3377	1328	2814	1107	1407	554
632	Desert Sand-UL VY DK	1487	585	1239	488	620	244
640	Beige Gray-VY DK	652	256	543	213	272	107
644	Beige Gray-MD	482	189	402	158	201	79
677	Old Gold-VY LT	149	58	125	48	62	24
712	Cream	2772	1091	2310	909	1155	455
722	Orange Spice-LT	7	2	6	2	3	1
726	Topaz-LT	4	2	3	2	2	1
727	Topaz-VY LT	40	14	33	12	17	6
730	Olive Green-VY DK	128	49	107	41	53	20
732	Olive Green	27	9	23	8	11	4
738	Tan-VY LT	6057	2383	5048	1986	2524	993
739	Tan-UL VY LT	1453	571	1211	476	605	238
754	Peach-LT	675	265	563	221	281	110
760	Salmon	49	18	41	15	20	8
762	Pearl Gray-VY LT	644	252	537	210	269	105
775	Baby Blue-VY LT	32	13	27	11	14	5

778	Antique Mauve-VY LT	382	149	318	125	159	62
801	Coffee Brown-DK	2066	812	1722	677	861	338
819	Baby Pink-LT	5429	2137	4524	1781	2262	890
822	Beige Gray-LT	4489	1766	3741	1472	1871	736
823	Navy Blue-DK	101	40	84	33	42	17
833	Golden Olive-LT	7	2	6	2	3	1
838	Beige Brown-VY DK	734	288	612	240	306	120
839	Beige Brown-DK	677	266	564	222	282	111
869	Hazelnut Brown-VY DK	763	299	636	249	318	125
920	Copper-MD	7	2	6	2	3	1
921	Copper	4	2	3	2	2	1
922	Copper-LT	50	20	42	17	21	8
926	Gray Green-MD	113	43	95	36	47	18
927	Gray Green-LT	49	18	41	15	20	8
931	Antique Blue-MD	362	142	302	119	151	59
932	Antique Blue-LT	149	58	125	48	62	24
935	Avocado Green-DK	70	27	59	23	29	11
937	Avocado Green-MD	220	86	183	72	92	36
938	Coffee Brown-UL DK	1154	454	962	378	481	189
948	Peach-VY LT	1469	578	1224	482	612	241
977	Golden Brown-LT	90	34	75	29	38	14
3011	Khaki Green-DK	828	326	690	272	345	136
3024	Brown Gray-VY LT	398	157	332	131	166	65
3031	Mocha Brown-VY DK	126	49	105	41	53	20
3032	Mocha Brown-MD	3650	1436	3042	1197	1521	599
3033	Mocha Brown-VY LT	250	97	209	81	104	41
3041	Antique Violet-MD	581	229	485	191	242	95
3042	Antique Violet-LT	364	142	303	119	152	59
3045	Yellow Beige-DK	1240	488	1034	407	517	203
3047	Yellow Beige-LT	808	317	674	264	337	132
3052	Green Gray-MD	4721	1858	3935	1548	1967	774
3053	Green Gray	7141	2810	5951	2342	2975	1171
3064	Desert Sand	963	378	803	315	401	158
3072	Beaver Gray-VY LT	392	153	327	128	164	64
3078	Golden Yellow-VY LT	616	241	513	201	257	101
3340	Apricot-MD	5	2	5	2	2	1
3341	Apricot	16	5	14	5	7	2
3346	Hunter Green	137	52	114	44	57	22
3363	Pine Green-MD	904	355	753	296	377	148
3371	Black Brown	371	146	309	122	155	61
3721	Shell Pink-DK	7	2	6	2	3	1
3740	Antique Violet-DK	326	128	272	107	136	53
3753	Antique Blue-UL VY LT	43	16	36	14	18	7
3756	Baby Blue-UL VY LT	1024	403	854	336	427	168
3768	Gray Green-DK	103	40	86	33	43	17
3770	Tawny-VY LT	2473	972	2061	810	1031	405
3778	Terra Cotta-LT	49	18	41	15	20	8
3782	Mocha Brown-LT	3695	1454	3080	1212	1540	606
3799	Pewter Gray-VY DK	176	68	147	57	74	29
3822	Straw-LT	36	13	30	11	15	5
3824	Apricot-LT	23	9	20	8	10	4
3825	Pumpkin-Pale	16	5	14	5	7	2
3827	Golden Brown-Pale	36	13	30	11	15	5
3828	Hazelnut Brown	1346	529	1122	441	561	221
3829	Old Gold-VY DK	180	70	150	59	75	29
3830	Terra Cotta-MD	16	5	14	5	7	2
3853	Autumn Gold-DK	4	2	3	2	2	1
3854	Autumn Gold-MD	11	4	9	3	5	2
3855	Autumn Gold-LT	196	76	164	63	82	32

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3856	Mahogany-UL VY LT	265	103	221	86	110	43
3861	Cocoa-LT	1354	533	1128	444	564	222
3862	Mocha Beige-DK	731	286	609	239	305	119
3863	Mocha Beige-MD	2704	1064	2253	887	1127	443
3865	Winter White	9410	3704	7842	3087	3921	1544
3866	Mocha Brown-UL VY LT	8537	3361	7115	2801	3557	1400
ecru	Ecru	2452	965	2043	804	1022	402

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	630	248	606	238	583	229
210	Lavender-MD	24	9	24	9	23	9
211	Lavender-LT	37	14	36	14	35	13
221	Shell Pink-VY DK	132	52	127	50	123	48
224	Shell Pink-VY LT	150	59	145	57	139	55
301	Mahogany-MD	17	6	17	6	16	6
312	Baby Blue-VY DK	16	6	15	6	15	5
317	Pewter Gray	289	113	278	109	267	105
318	Steel Gray-LT	102	40	98	38	94	37
341	Blue Violet-LT	12	4	11	4	11	4
353	Peach	128	50	123	48	119	47
356	Terra Cotta-MD	290	114	279	109	269	105
369	Pistachio Green-VY LT	194	76	186	73	179	70
371	Mustard	659	259	633	249	610	240
407	Desert Sand-DK	575	226	552	217	532	209
413	Pewter Gray-DK	100	39	96	37	93	36
414	Steel Gray-DK	569	224	547	215	527	207
415	Pearl Gray	74	29	71	28	69	27
420	Hazelnut Brown-DK	336	132	323	127	311	122
422	Hazelnut Brown-LT	374	147	360	141	347	136
434	Brown-LT	207	81	199	78	192	75
437	Tan-LT	362	143	348	137	335	132
451	Shell Gray-DK	241	94	232	91	223	87
452	Shell Gray-MD	485	190	466	183	449	176
471	Avocado Green-VY LT	11	4	10	3	10	3
501	Blue Green-DK	27	10	26	10	25	9
522	Fern Green	376	148	361	142	348	137
523	Fern Green-LT	1789	704	1720	677	1657	652
524	Fern Green-VY LT	66	26	64	25	61	24
543	Beige Brown-UL VY LT	511	201	492	193	473	186
580	Moss Green-DK	14	5	14	5	13	5
611	Drab Brown	837	329	805	316	775	305
613	Drab Brown-VY LT	1351	531	1299	511	1251	492
632	Desert Sand-UL VY DK	595	234	572	225	551	217
640	Beige Gray-VY DK	261	102	251	98	241	95
644	Beige Gray-MD	193	76	186	73	179	70
677	Old Gold-VY LT	60	23	57	22	55	21
712	Cream	1109	436	1066	420	1027	404
722	Orange Spice-LT	3	1	3	1	3	1
726	Topaz-LT	1	1	1	1	1	1
727	Topaz-VY LT	16	6	15	6	15	5
730	Olive Green-VY DK	51	19	49	19	47	18
732	Olive Green	11	4	10	3	10	3
738	Tan-VY LT	2423	953	2330	917	2243	883
739	Tan-UL VY LT	581	228	559	219	538	211

754	Peach-LT	270	106	260	102	250	98
760	Salmon	19	7	19	7	18	7
762	Pearl Gray-VY LT	258	101	248	97	239	93
775	Baby Blue-VY LT	13	5	12	5	12	5
778	Antique Mauve-VY LT	153	60	147	57	141	55
801	Coffee Brown-DK	827	325	795	312	765	301
819	Baby Pink-LT	2172	855	2088	822	2011	791
822	Beige Gray-LT	1796	706	1727	679	1663	654
823	Navy Blue-DK	40	16	39	15	37	15
833	Golden Olive-LT	3	1	3	1	3	1
838	Beige Brown-VY DK	294	115	282	111	272	107
839	Beige Brown-DK	271	107	260	102	251	99
869	Hazelnut Brown-VY DK	305	120	294	115	283	111
920	Copper-MD	3	1	3	1	3	1
921	Copper	1	1	1	1	1	1
922	Copper-LT	20	8	19	8	19	7
926	Gray Green-MD	45	17	44	17	42	16
927	Gray Green-LT	19	7	19	7	18	7
931	Antique Blue-MD	145	57	139	55	134	53
932	Antique Blue-LT	60	23	57	22	55	21
935	Avocado Green-DK	28	11	27	10	26	10
937	Avocado Green-MD	88	35	84	33	81	32
938	Coffee Brown-UL DK	462	181	444	174	427	168
948	Peach-VY LT	588	231	565	222	544	214
977	Golden Brown-LT	36	14	35	13	33	13
3011	Khaki Green-DK	331	130	318	125	307	121
3024	Brown Gray-VY LT	159	63	153	60	147	58
3031	Mocha Brown-VY DK	50	19	48	19	47	18
3032	Mocha Brown-MD	1460	575	1404	552	1352	532
3033	Mocha Brown-VY LT	100	39	96	37	93	36
3041	Antique Violet-MD	233	91	224	88	215	85
3042	Antique Violet-LT	145	57	140	55	135	53
3045	Yellow Beige-DK	496	195	477	188	459	181
3047	Yellow Beige-LT	323	127	311	122	299	117
3052	Green Gray-MD	1889	743	1816	714	1749	688
3053	Green Gray	2856	1124	2746	1081	2645	1041
3064	Desert Sand	385	151	370	145	357	140
3072	Beaver Gray-VY LT	157	61	151	59	145	57
3078	Golden Yellow-VY LT	246	96	237	93	228	89
3340	Apricot-MD	2	1	2	1	2	1
3341	Apricot	6	2	6	2	6	2
3346	Hunter Green	55	21	53	20	51	19
3363	Pine Green-MD	361	142	348	136	335	131
3371	Black Brown	148	58	143	56	137	54
3721	Shell Pink-DK	3	1	3	1	3	1
3740	Antique Violet-DK	130	51	125	49	121	47
3753	Antique Blue-UL VY LT	17	6	17	6	16	6
3756	Baby Blue-UL VY LT	410	161	394	155	379	149
3768	Gray Green-DK	41	16	39	15	38	15
3770	Tawny-VY LT	989	389	951	374	916	360
3778	Terra Cotta-LT	19	7	19	7	18	7
3782	Mocha Brown-LT	1478	582	1421	559	1369	539
3799	Pewter Gray-VY DK	71	27	68	26	65	25
3822	Straw-LT	14	5	14	5	13	5
3824	Apricot-LT	9	4	9	3	9	3
3825	Pumpkin-Pale	6	2	6	2	6	2
3827	Golden Brown-Pale	14	5	14	5	13	5
3828	Hazelnut Brown	539	212	518	204	499	196
3829	Old Gold-VY DK	72	28	69	27	67	26

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3830	Terra Cotta-MD	6	2	6	2	6	2
3853	Autumn Gold-DK	1	1	1	1	1	1
3854	Autumn Gold-MD	4	1	4	1	4	1
3855	Autumn Gold-LT	78	30	75	29	73	28
3856	Mahogany-UL VY LT	106	41	102	39	98	38
3861	Cocoa-LT	541	213	521	205	501	197
3862	Mocha Beige-DK	292	114	281	110	271	106
3863	Mocha Beige-MD	1081	426	1040	409	1001	394
3865	Winter White	3764	1482	3619	1425	3485	1372
3866	Mocha Brown-UL VY LT	3415	1344	3284	1293	3162	1245
ecru	Ecru	981	386	943	371	908	357

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	563	221	525	206	492	194
210	Lavender-MD	22	8	20	8	19	7
211	Lavender-LT	33	13	31	12	29	11
221	Shell Pink-VY DK	118	46	110	43	104	41
224	Shell Pink-VY LT	134	53	125	49	118	46
301	Mahogany-MD	15	6	14	5	14	5
312	Baby Blue-VY DK	14	5	13	5	12	5
317	Pewter Gray	258	101	241	94	226	88
318	Steel Gray-LT	91	35	85	33	79	31
341	Blue Violet-LT	10	4	10	4	9	3
353	Peach	114	45	107	42	100	39
356	Terra Cotta-MD	259	102	242	95	227	89
369	Pistachio Green-VY LT	173	68	161	63	151	59
371	Mustard	588	231	549	216	515	203
407	Desert Sand-DK	513	202	479	188	449	177
413	Pewter Gray-DK	89	35	83	32	78	30
414	Steel Gray-DK	508	200	474	187	444	175
415	Pearl Gray	66	26	62	24	58	23
420	Hazelnut Brown-DK	300	118	280	110	263	103
422	Hazelnut Brown-LT	334	131	312	122	293	115
434	Brown-LT	185	73	173	68	162	64
437	Tan-LT	323	127	302	119	283	111
451	Shell Gray-DK	215	84	201	79	188	74
452	Shell Gray-MD	433	170	404	158	379	149
471	Avocado Green-VY LT	10	3	9	3	8	3
501	Blue Green-DK	24	9	23	8	21	8
522	Fern Green	336	132	313	123	294	115
523	Fern Green-LT	1598	629	1491	587	1398	550
524	Fern Green-VY LT	59	23	55	22	52	20
543	Beige Brown-UL VY LT	456	179	426	167	399	157
580	Moss Green-DK	13	5	12	4	11	4
611	Drab Brown	748	294	698	274	654	257
613	Drab Brown-VY LT	1206	474	1126	443	1055	415
632	Desert Sand-UL VY DK	531	209	496	195	465	183
640	Beige Gray-VY DK	233	91	217	85	204	80
644	Beige Gray-MD	172	68	161	63	151	59
677	Old Gold-VY LT	53	21	50	19	47	18
712	Cream	990	390	924	364	866	341
722	Orange Spice-LT	3	1	2	1	2	1
726	Topaz-LT	1	1	1	1	1	1
727	Topaz-VY LT	14	5	13	5	12	5

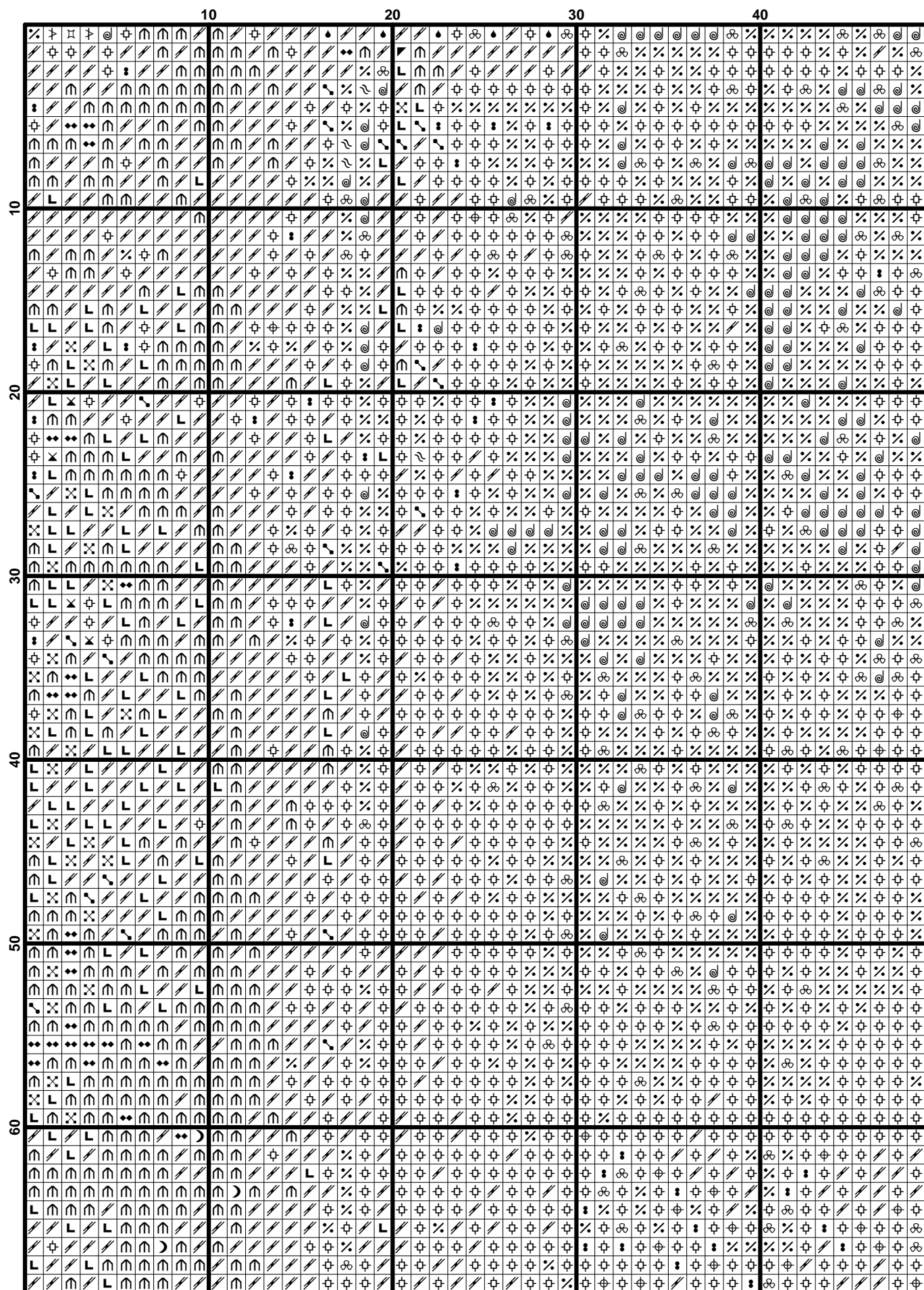
730	Olive Green-VY DK	46	17	43	16	40	15
732	Olive Green	10	3	9	3	8	3
738	Tan-VY LT	2163	851	2019	794	1893	745
739	Tan-UL VY LT	519	204	484	190	454	178
754	Peach-LT	241	95	225	88	211	83
760	Salmon	17	6	16	6	15	6
762	Pearl Gray-VY LT	230	90	215	84	201	79
775	Baby Blue-VY LT	12	5	11	4	10	4
778	Antique Mauve-VY LT	136	53	127	50	119	47
801	Coffee Brown-DK	738	290	689	271	646	254
819	Baby Pink-LT	1939	763	1810	712	1697	668
822	Beige Gray-LT	1603	631	1496	589	1403	552
823	Navy Blue-DK	36	14	34	13	32	12
833	Golden Olive-LT	3	1	2	1	2	1
838	Beige Brown-VY DK	262	103	245	96	230	90
839	Beige Brown-DK	242	95	226	89	212	83
869	Hazelnut Brown-VY DK	273	107	254	100	239	93
920	Copper-MD	3	1	2	1	2	1
921	Copper	1	1	1	1	1	1
922	Copper-LT	18	7	17	7	16	6
926	Gray Green-MD	41	15	38	14	35	14
927	Gray Green-LT	17	6	16	6	15	6
931	Antique Blue-MD	129	51	121	47	113	44
932	Antique Blue-LT	53	21	50	19	47	18
935	Avocado Green-DK	25	10	23	9	22	8
937	Avocado Green-MD	78	31	73	29	69	27
938	Coffee Brown-UL DK	412	162	385	151	361	142
948	Peach-VY LT	525	206	490	193	459	181
977	Golden Brown-LT	32	12	30	11	28	11
3011	Khaki Green-DK	296	116	276	109	259	102
3024	Brown Gray-VY LT	142	56	133	52	124	49
3031	Mocha Brown-VY DK	45	17	42	16	39	15
3032	Mocha Brown-MD	1304	513	1217	479	1141	449
3033	Mocha Brown-VY LT	89	35	83	32	78	30
3041	Antique Violet-MD	208	82	194	76	182	71
3042	Antique Violet-LT	130	51	121	47	114	44
3045	Yellow Beige-DK	443	174	413	163	388	152
3047	Yellow Beige-LT	289	113	269	106	253	99
3052	Green Gray-MD	1686	663	1574	619	1475	581
3053	Green Gray	2550	1004	2380	937	2231	878
3064	Desert Sand	344	135	321	126	301	118
3072	Beaver Gray-VY LT	140	55	131	51	123	48
3078	Golden Yellow-VY LT	220	86	205	80	192	75
3340	Apricot-MD	2	1	2	1	2	1
3341	Apricot	6	2	5	2	5	2
3346	Hunter Green	49	19	46	17	43	16
3363	Pine Green-MD	323	127	301	118	282	111
3371	Black Brown	132	52	124	49	116	46
3721	Shell Pink-DK	3	1	2	1	2	1
3740	Antique Violet-DK	116	46	109	43	102	40
3753	Antique Blue-UL VY LT	15	6	14	5	14	5
3756	Baby Blue-UL VY LT	366	144	341	134	320	126
3768	Gray Green-DK	37	14	34	13	32	12
3770	Tawny-VY LT	883	347	824	324	773	304
3778	Terra Cotta-LT	17	6	16	6	15	6
3782	Mocha Brown-LT	1320	519	1232	485	1155	455
3799	Pewter Gray-VY DK	63	24	59	23	55	21
3822	Straw-LT	13	5	12	4	11	4
3824	Apricot-LT	8	3	8	3	7	3

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3825	Pumpkin-Pale	6	2	5	2	5	2
3827	Golden Brown-Pale	13	5	12	4	11	4
3828	Hazelnut Brown	481	189	449	176	421	165
3829	Old Gold-VY DK	64	25	60	23	56	22
3830	Terra Cotta-MD	6	2	5	2	5	2
3853	Autumn Gold-DK	1	1	1	1	1	1
3854	Autumn Gold-MD	4	1	4	1	3	1
3855	Autumn Gold-LT	70	27	65	25	61	24
3856	Mahogany-UL VY LT	95	37	88	34	83	32
3861	Cocoa-LT	483	190	451	178	423	167
3862	Mocha Beige-DK	261	102	244	95	228	89
3863	Mocha Beige-MD	966	380	901	355	845	332
3865	Winter White	3361	1323	3137	1235	2941	1158
3866	Mocha Brown-UL VY LT	3049	1200	2846	1120	2668	1050
ecru	Ecru	876	345	817	322	766	302



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20					
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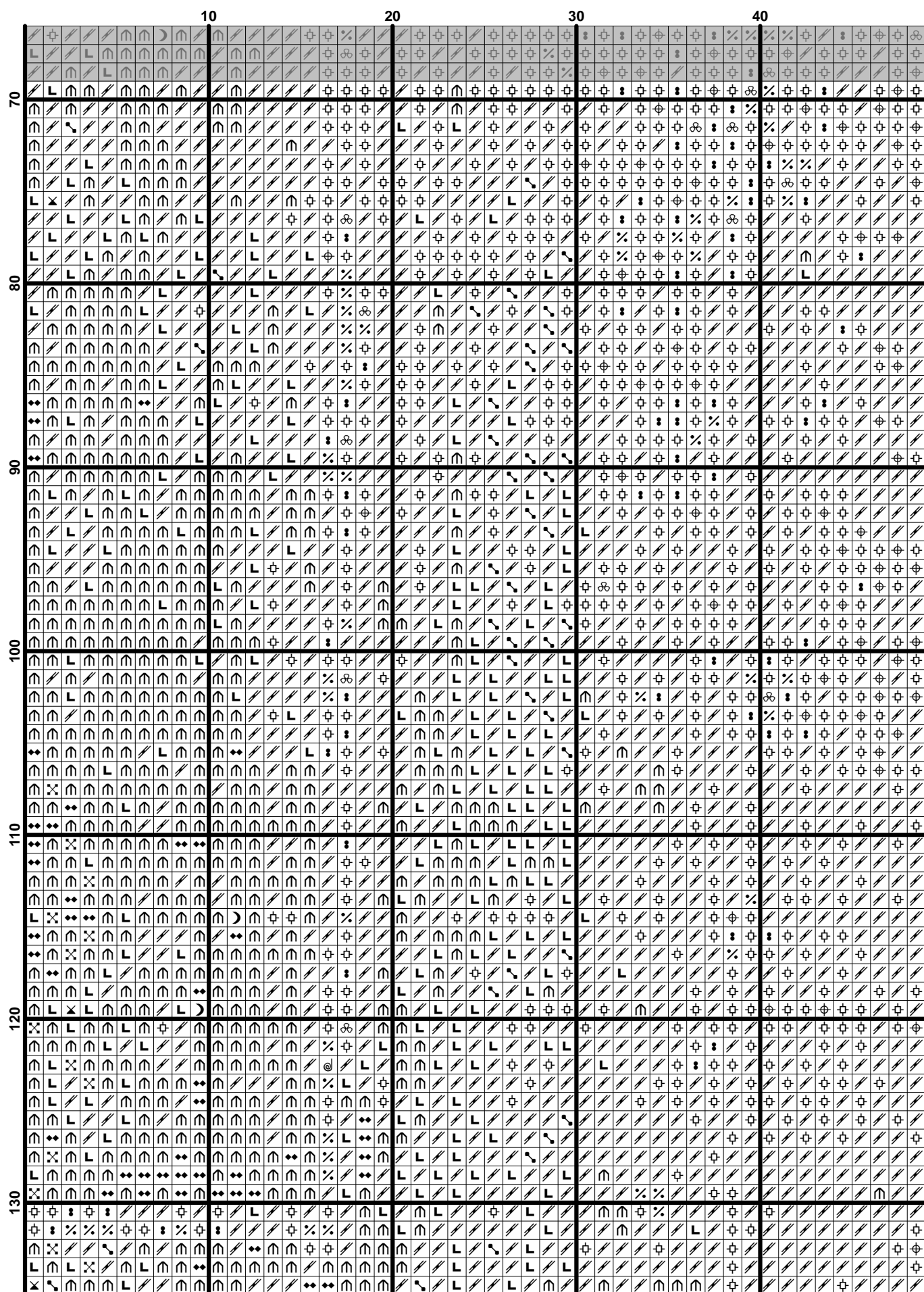




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30	580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600	590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610	600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620	610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630	620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640
40	640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660	650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670	660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680	670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690	680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700
50	700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720	710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730	720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740	730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750	740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760
60	760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780	770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790	780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800	790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810	800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820

[illegible]

(26)



$$(28) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$





[illegible]




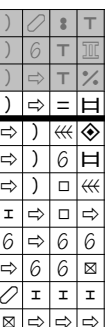




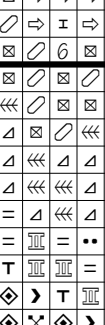




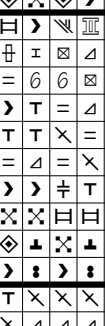




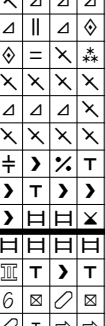




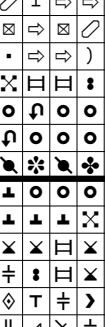
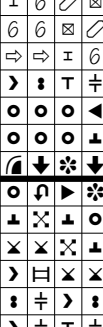


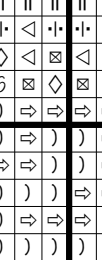
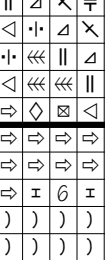
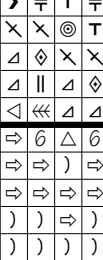
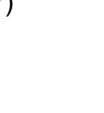






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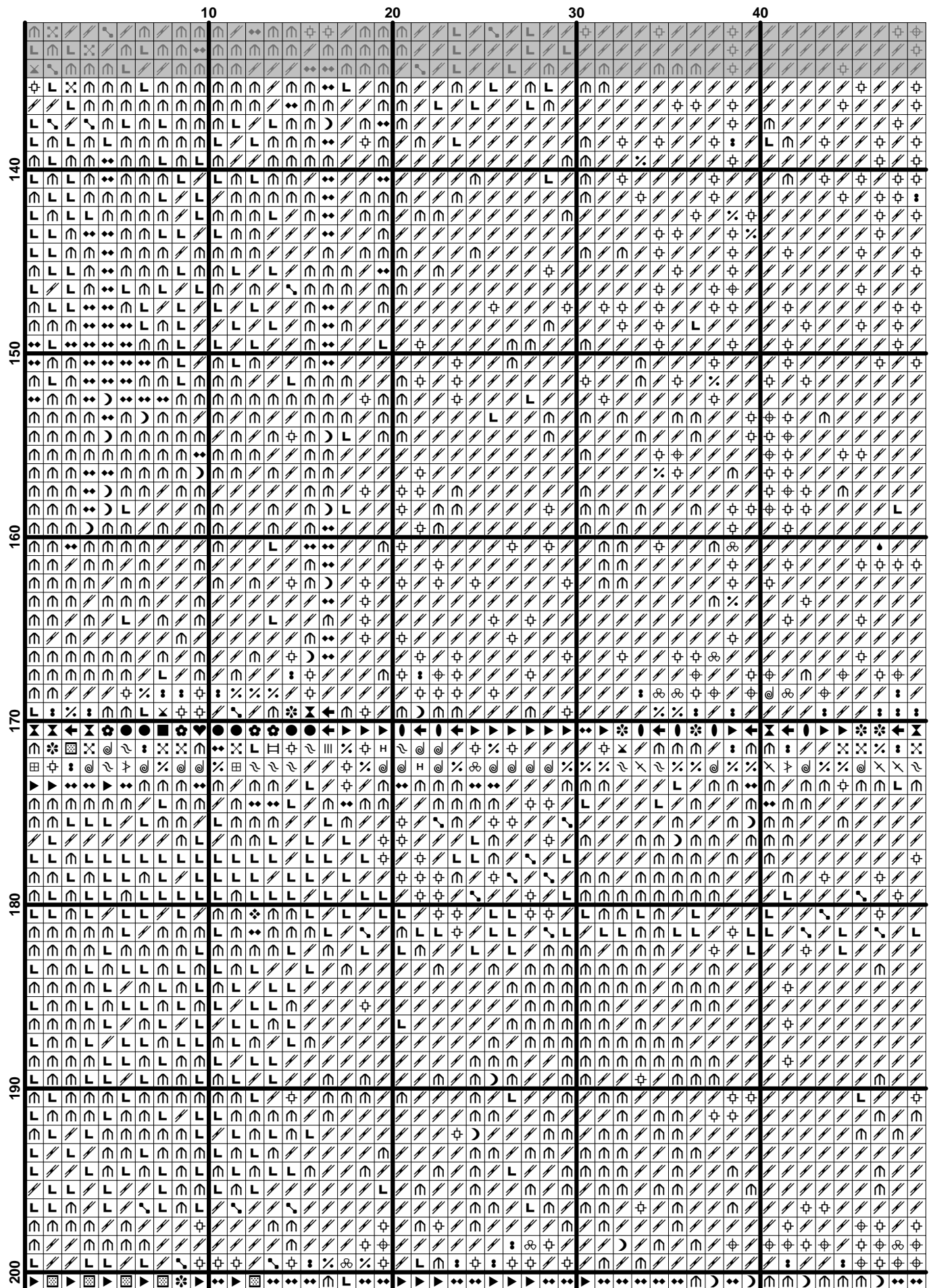
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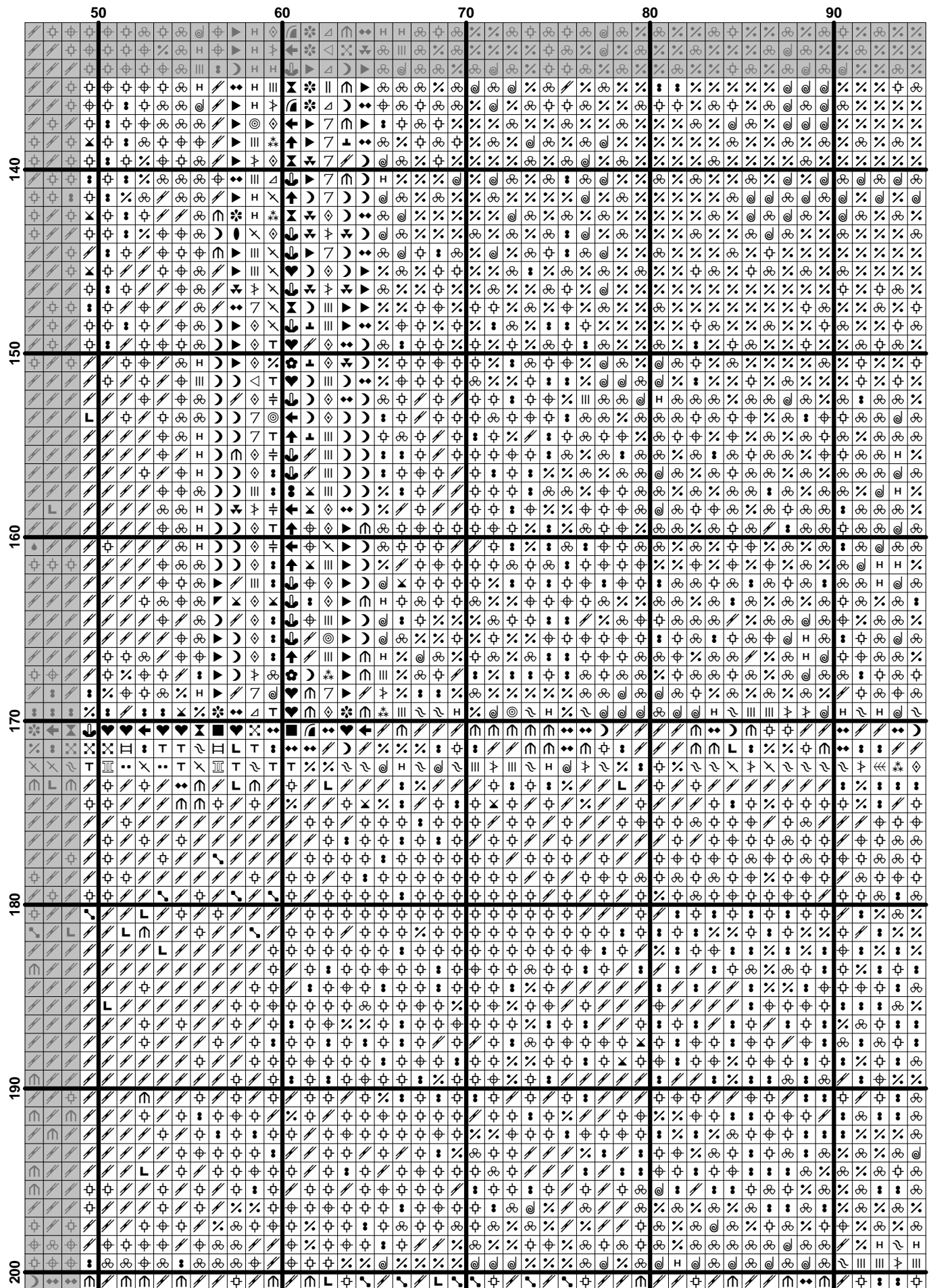
[illegible]

	460	470	480	490	500
70					
80					
90					
100					
110					
120					
130					

[illegible]

(39)









[illegible]

	230	240	250	260	270
140					
150					
160					
170					
180					
190					
200					

[illegible]

[illegible]

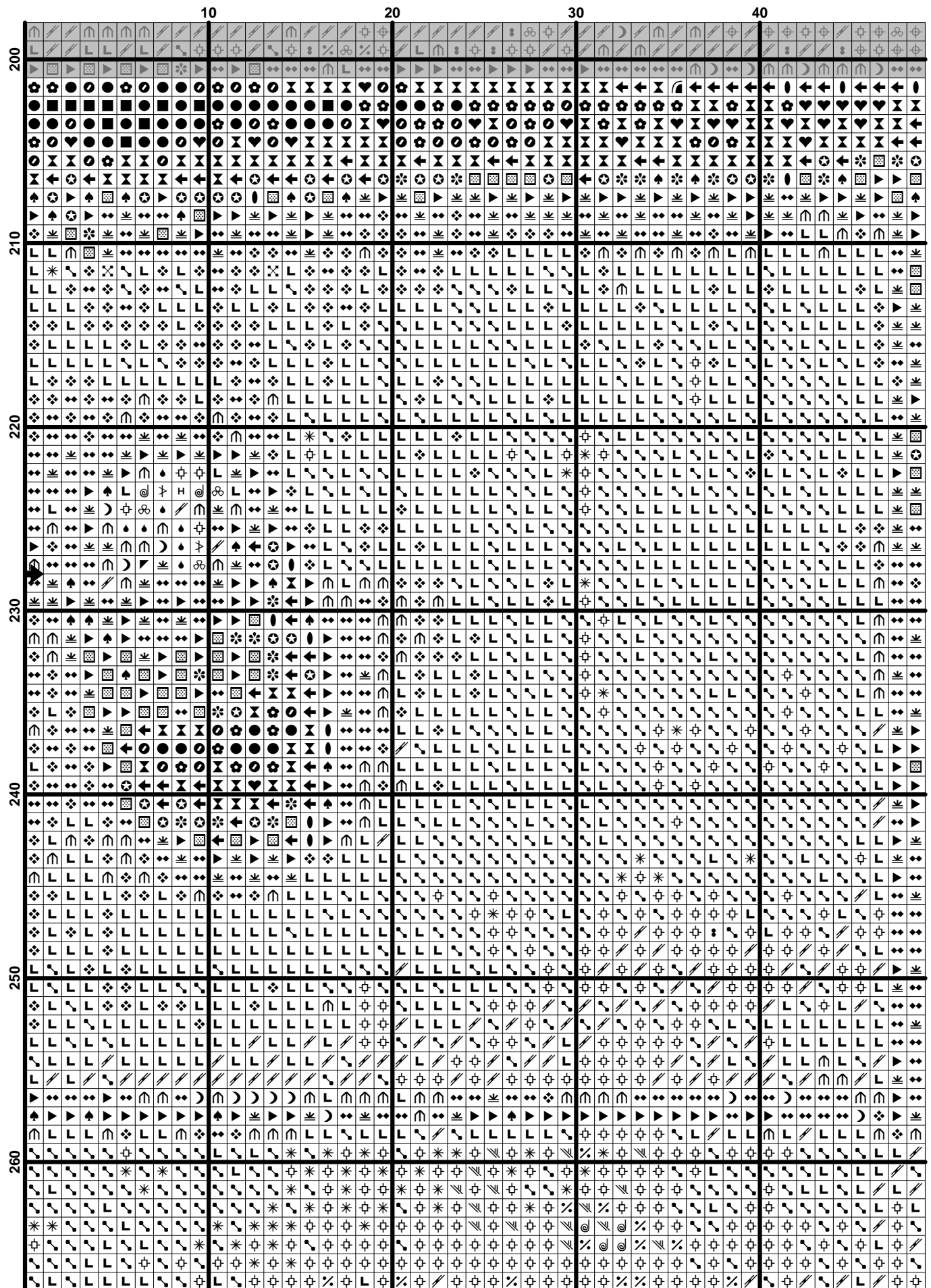
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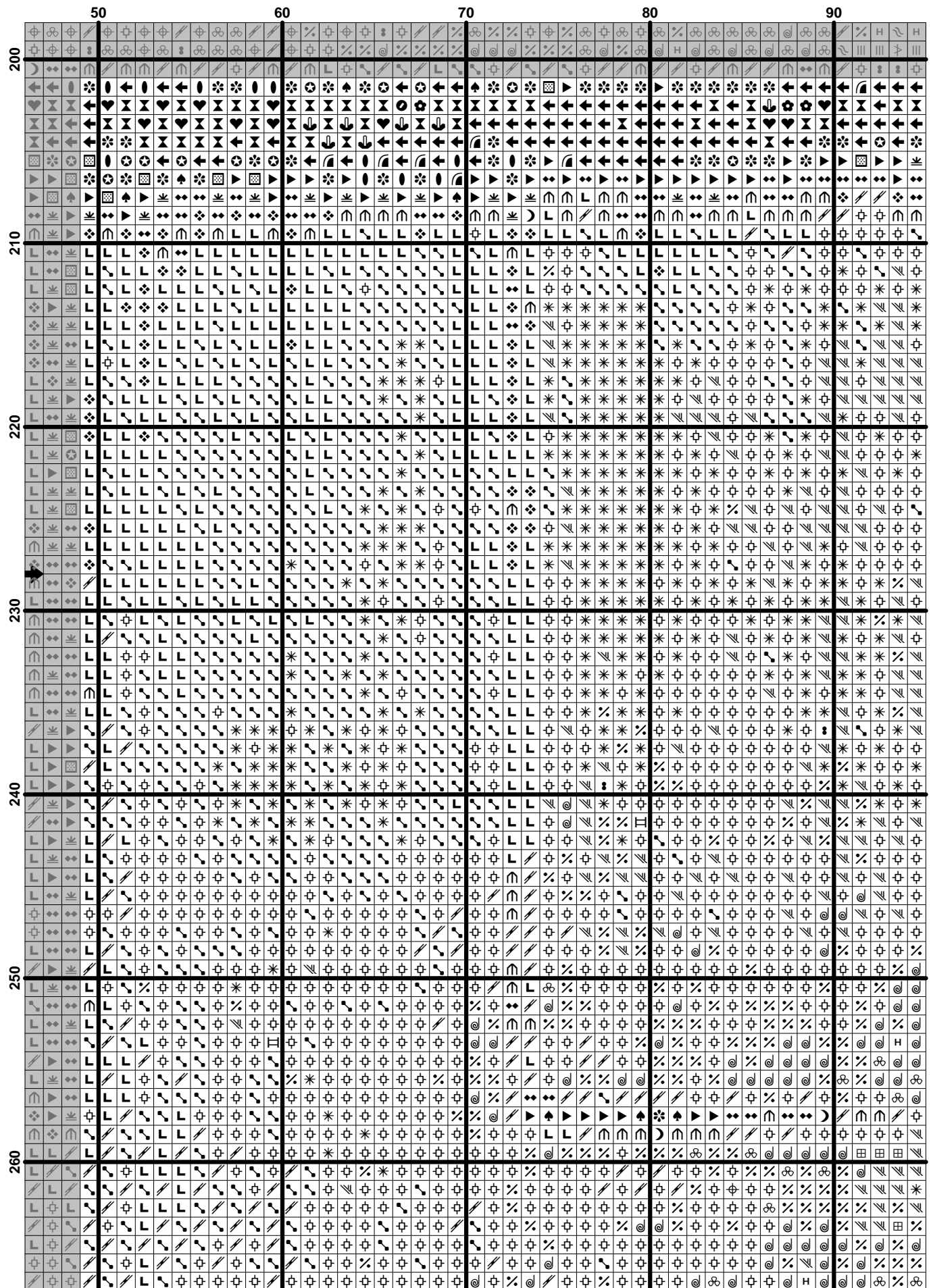
$$(49) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$



[illegible]

(52)

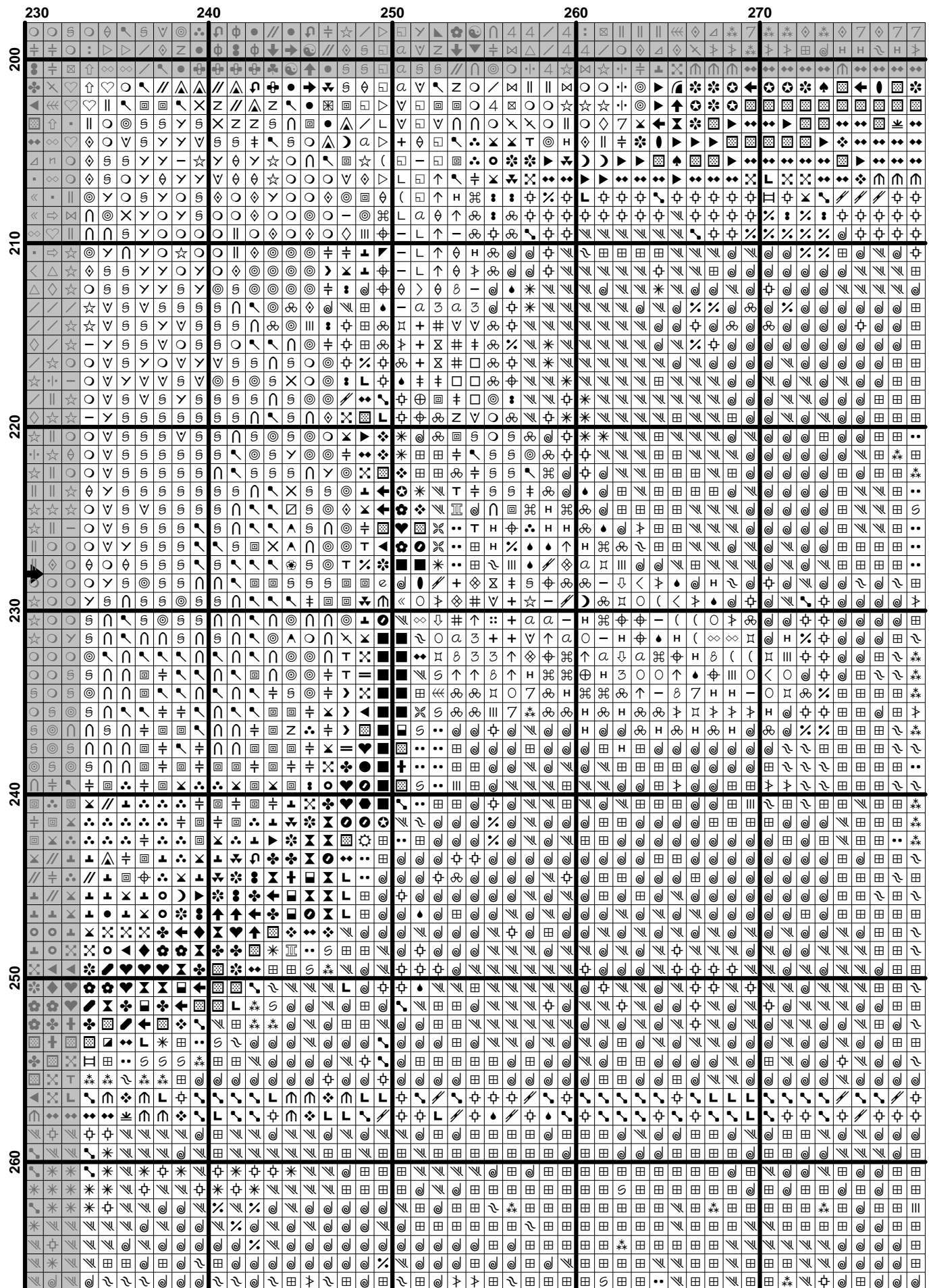




[illegible]



[illegible]



	280										290										300										310										320									
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220	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
230	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
240	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
250	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
260	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			

[illegible]

	370	380	390	400	410
200					
210					
220					
230					
240					
250					
260					





[illegible]

(65)

	10										20										30										40									
270	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	
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290	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	
300	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	
310	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	
320	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	田	
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	50	60	70	80	90
270					
280					
290					
300					
310					
320					
330					

	100	110	120	130	140
270	...	...	...	...	...
280	...	...	...	...	...
290	...	...	...	...	...
300	...	...	...	...	...
310	...	...	...	...	...
320	...	...	...	...	...
330	...	...	...	...	...

[illegible]

[illegible]

230	240	250	260	270
270	280	290	300	310
320	330			





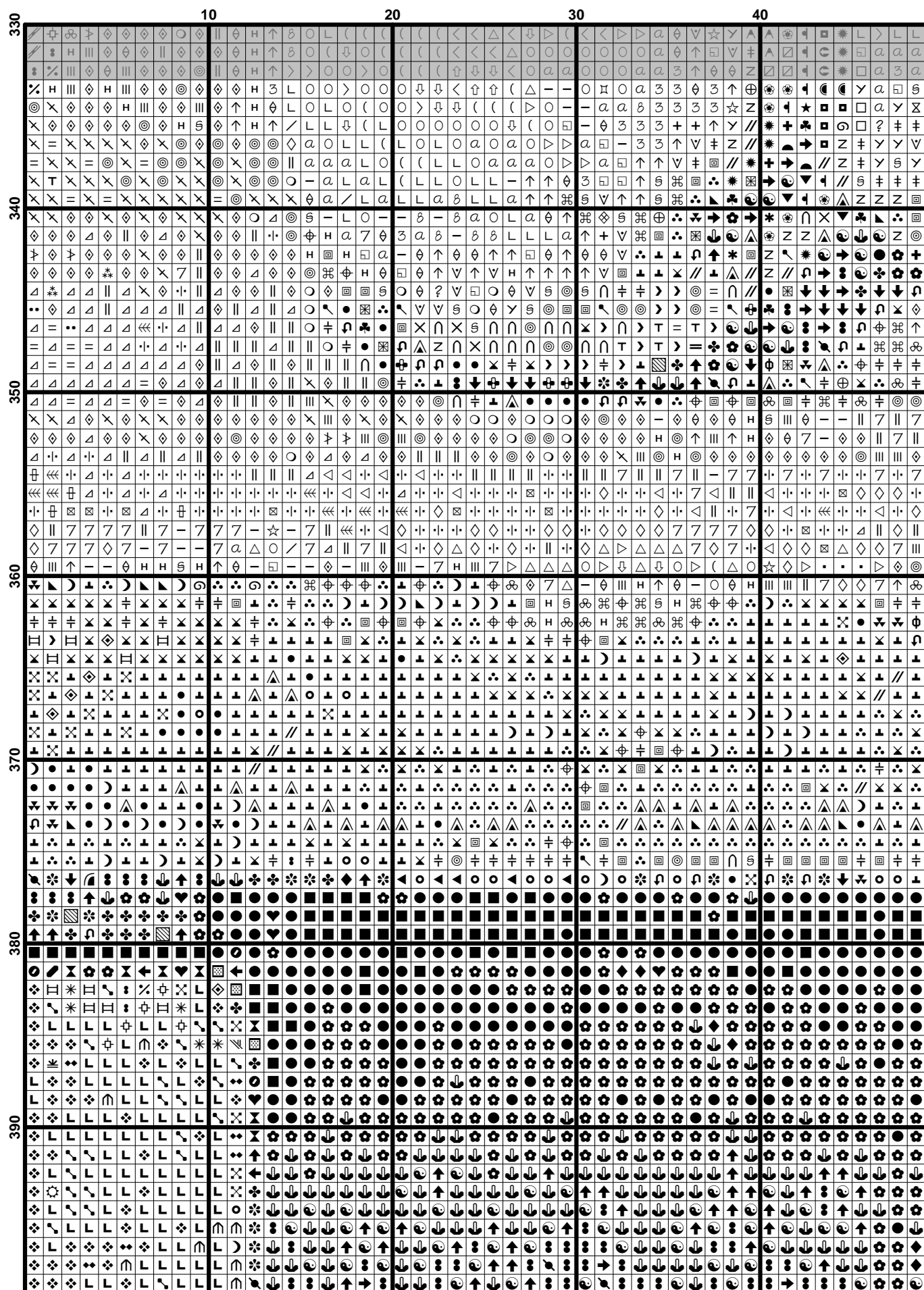


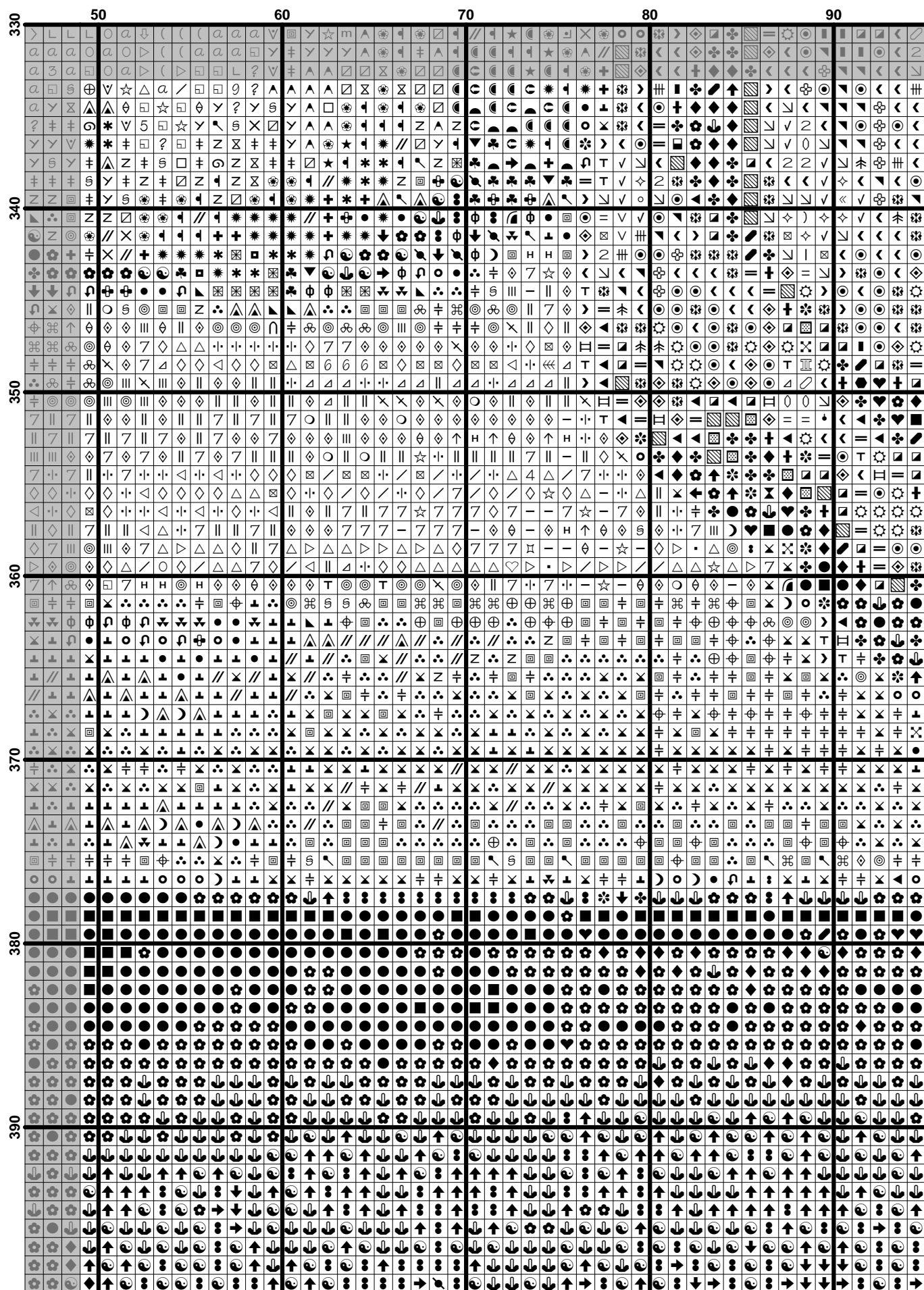


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270	460	470	480	490	500
280	460	470	480	490	500
290	460	470	480	490	500
300	460	470	480	490	500
310	460	470	480	490	500
320	460	470	480	490	500
330	460	470	480	490	500









	100	110	120	130	140
330					
340					
350					
360					
370					
380					
390					





330	230	240	250	260	270
330	230	240	250	260	270
340	230	240	250	260	270
350	230	240	250	260	270
360	230	240	250	260	270
370	230	240	250	260	270
380	230	240	250	260	270
390	230	240	250	260	270





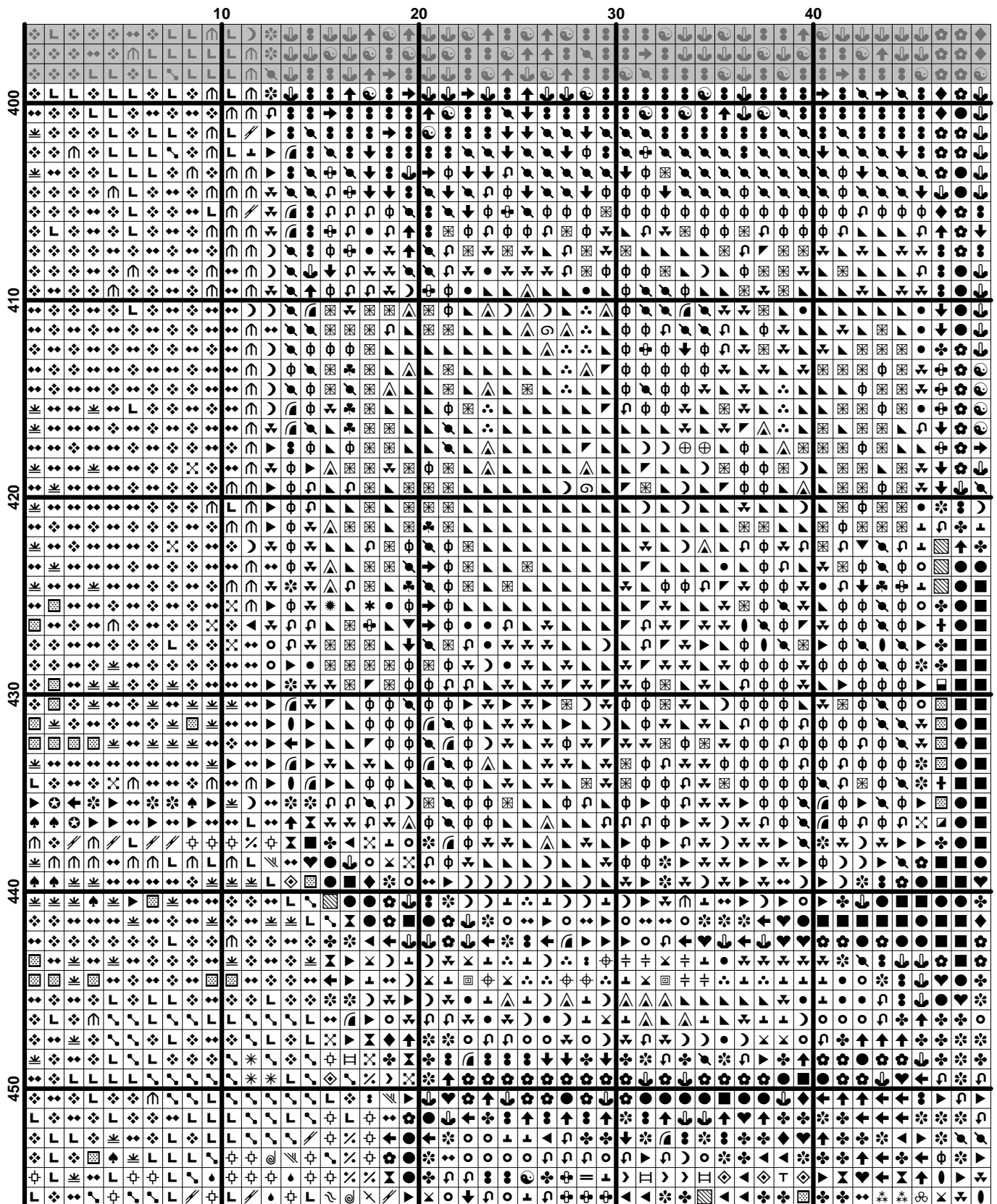


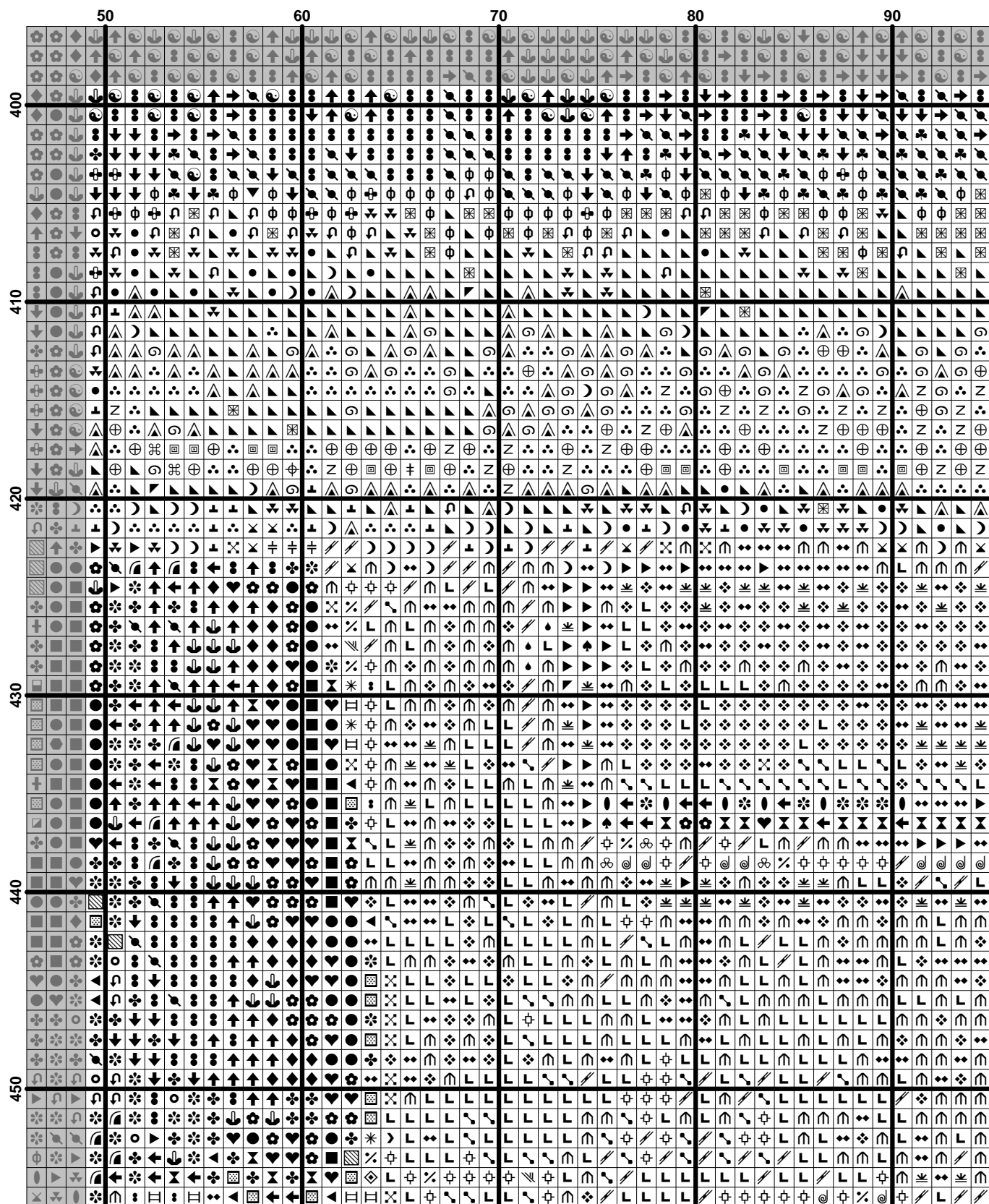


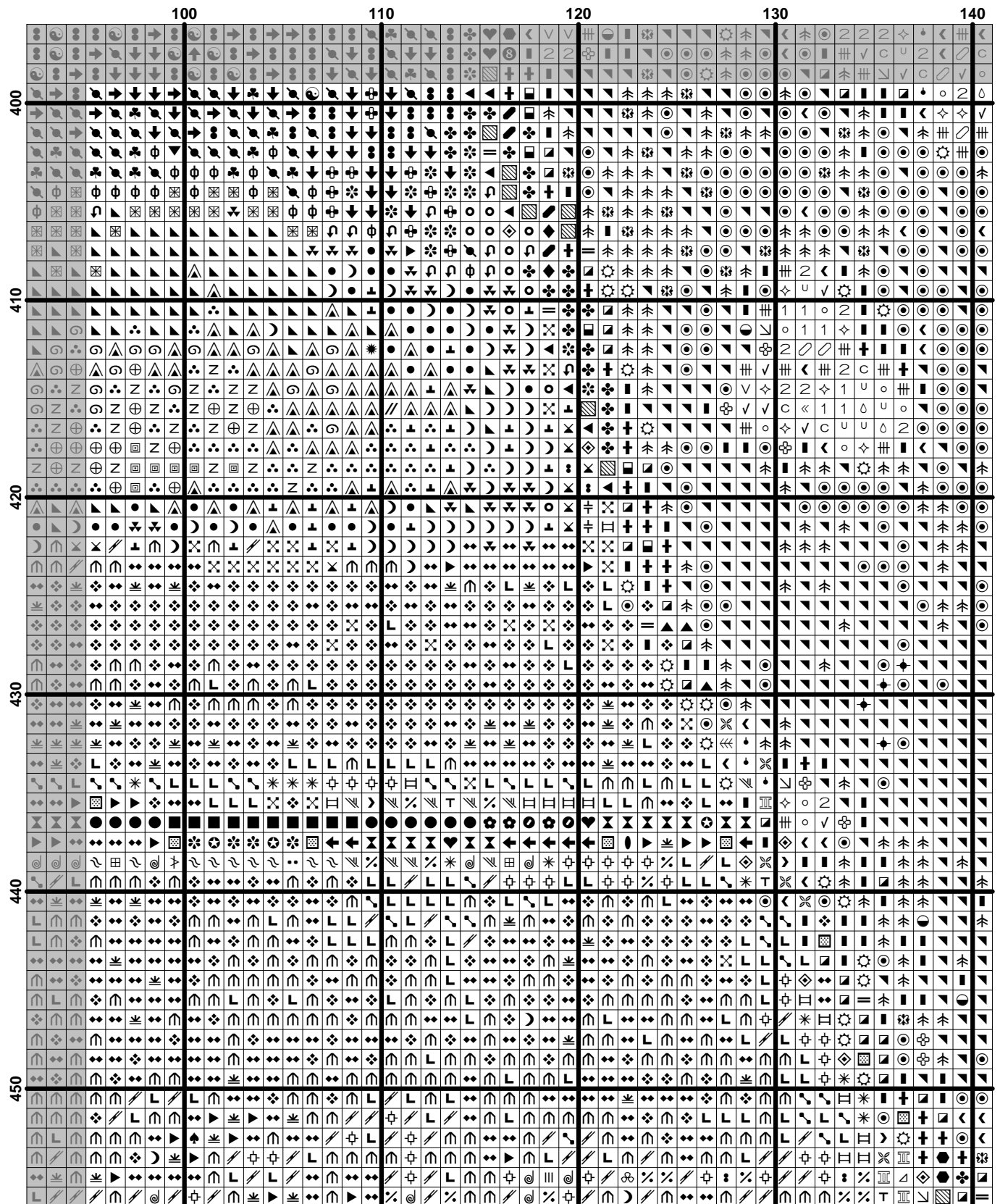




(91)







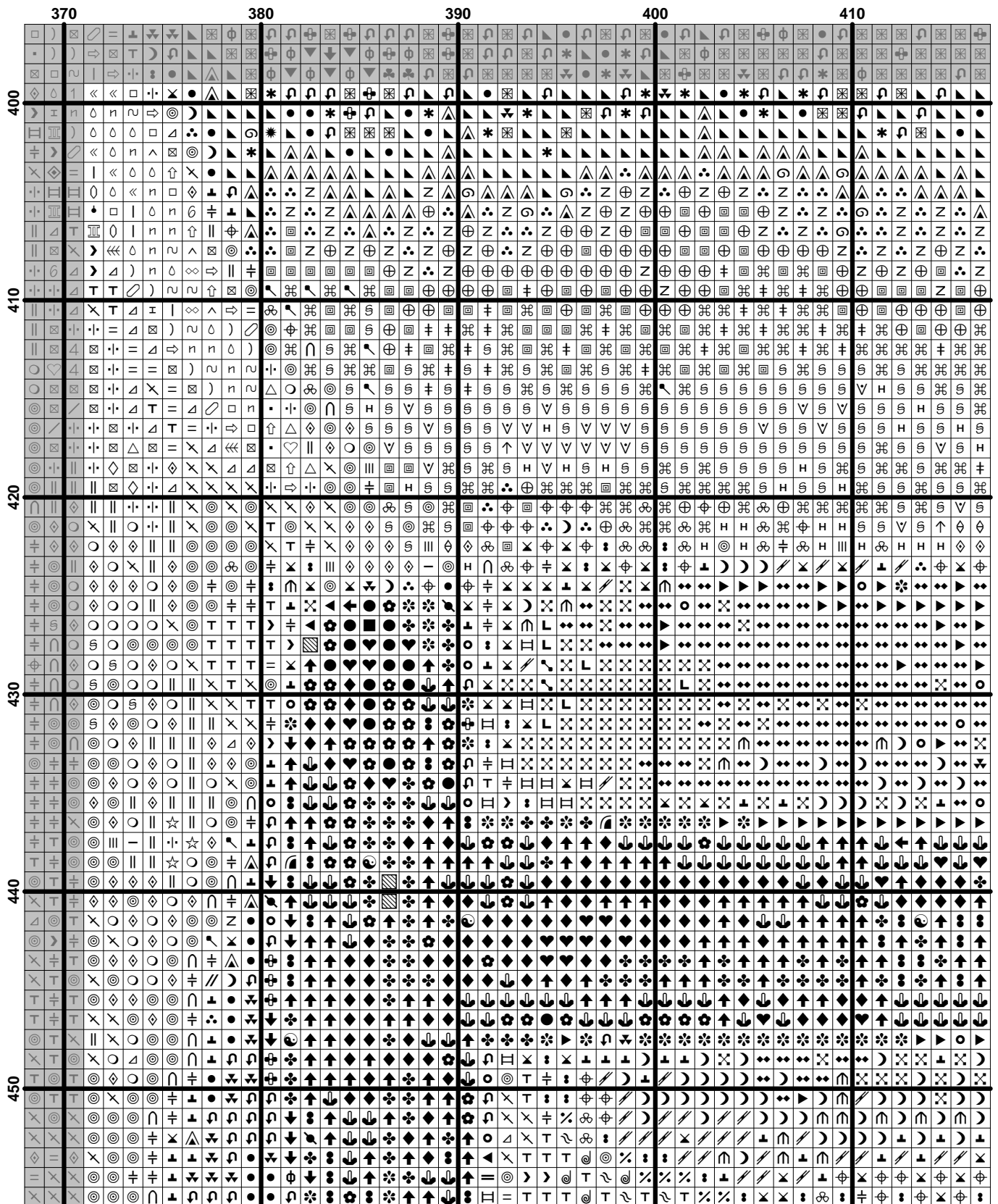


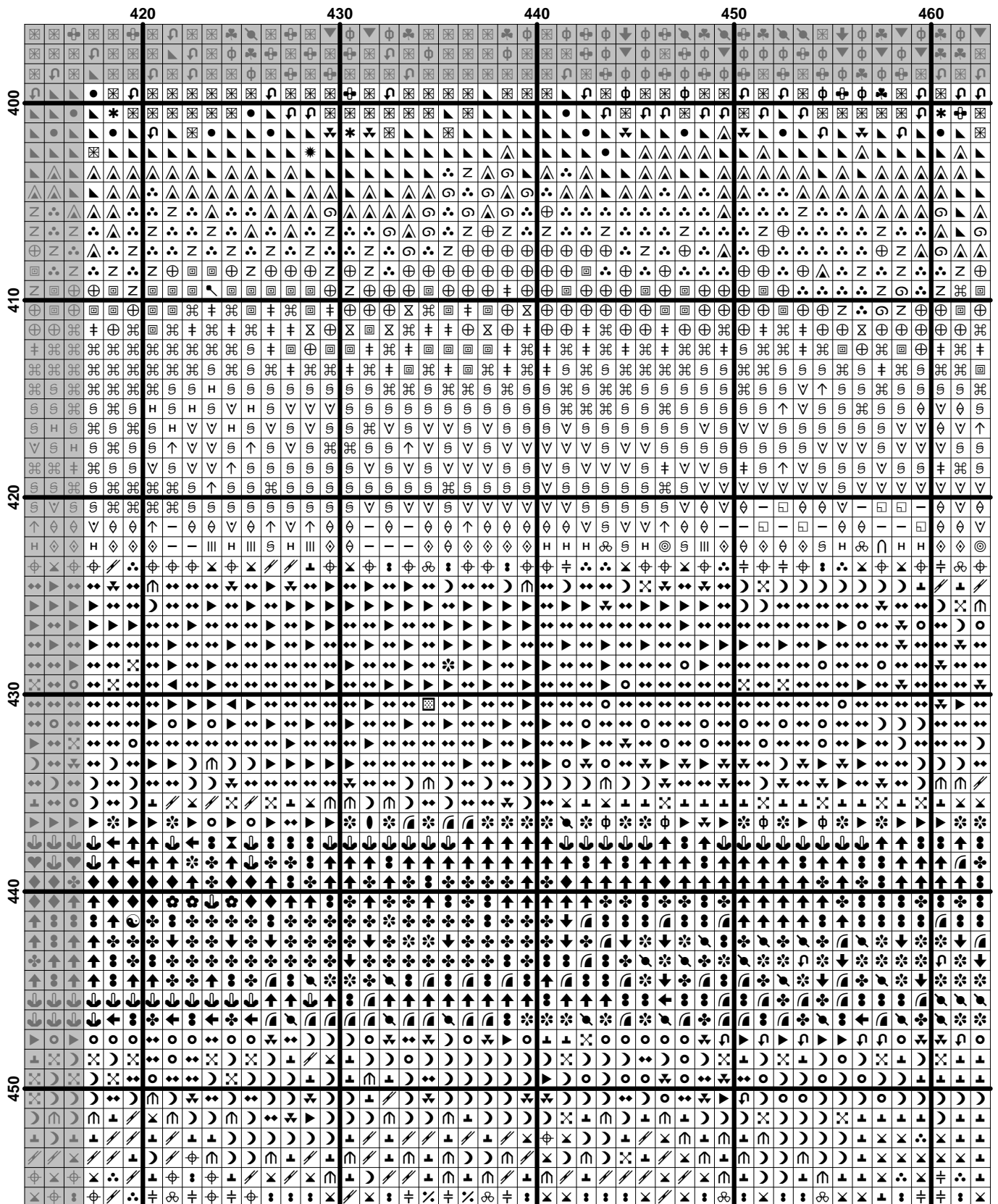
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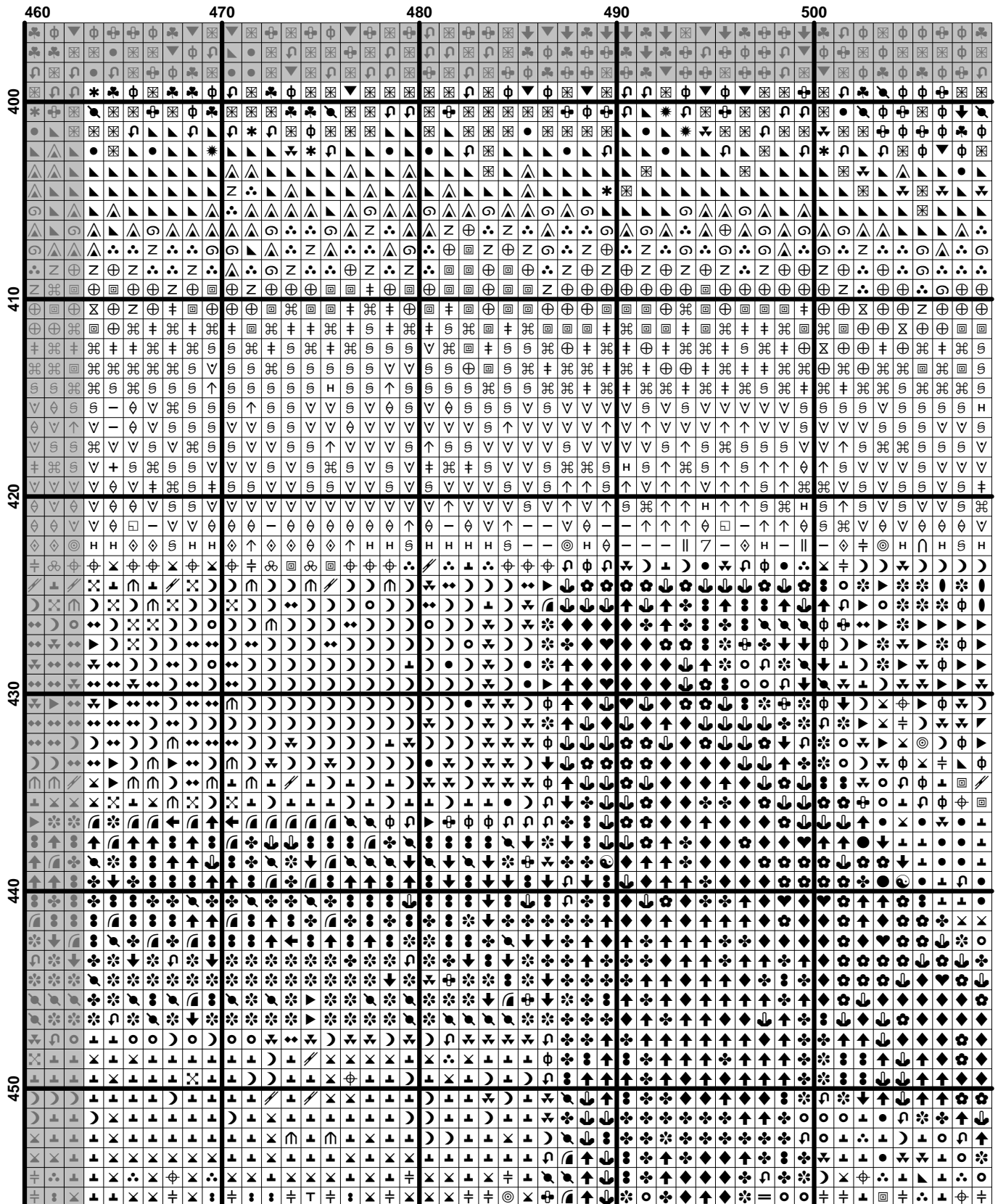
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