

## 2113 Friends



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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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## Friends

Stitch Count	
Horizontal:	500
Vertical:	357

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:	91	35.67	65	25.39	80	31.21	57	22.21	71	27.75	51	19.75
Including Margins:	107	42	81	32	96	38	73	29	87	34	67	26
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	127	49.93	91	35.54	106	41.61	75	29.62	53	20.8	37	14.81
Including Margins:	143	56	107	42	122	48	91	36	69	27	53	21
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	50	19.97	36	14.21	49	19.2	35	13.67	47	18.49	33	13.16
Including Margins:	66	26	52	21	65	26	51	20	63	25	49	20
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	45	17.83	32	12.69	42	16.64	30	11.84	39	15.6	28	11.1
Including Margins:	61	24	48	19	58	23	46	18	55	22	44	18

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

Symbol	DMC	Name
↑	221	Shell Pink-VY DK
٪	223	Shell Pink-LT
α	224	Shell Pink-VY LT
⚭	301	Mahogany-MD
☒	347	Salmon-VY DK
✿	349	Coral-DK
☪	351	Coral
♣	355	Terra Cotta-DK
☑	356	Terra Cotta-MD
‡	370	Mustard-MD
卅	371	Mustard
+	372	Mustard-LT
∇	407	Desert Sand-DK
▩	413	Pewter Gray-DK
c	415	Pearl Gray
⌘	422	Hazelnut Brown-LT
‡	435	Brown-VY LT
☐	437	Tan-LT
⊕	451	Shell Gray-DK
Ⓢ	452	Shell Gray-MD
o	453	Shell Gray-LT
◁	524	Fern Green-VY LT
▼	535	Ash Gray-VY LT
•	543	Beige Brown-UL VY LT
⦿	611	Drab Brown
••	612	Drab Brown-LT
⇒	613	Drab Brown-VY LT
◐	632	Desert Sand-UL VY DK
⊕	640	Beige Gray-VY DK
:	644	Beige Gray-MD
▀	645	Beaver Gray-VY DK
**	647	Beaver Gray-MD
9	648	Beaver Gray-LT
⊕	666	Christmas Red-BRT
«	712	Cream
♣	729	Old Gold-MD
✓	733	Olive Green-MD
☞	734	Olive Green-LT
8	738	Tan-VY LT
l	739	Tan-UL VY LT
〉	754	Peach-LT
◇	758	Terra Cotta-VY LT
4	778	Antique Mauve-VY LT
↓	801	Coffee Brown-DK
↑	822	Beige Gray-LT
/	834	Golden Olive-VY LT
➔	839	Beige Brown-DK
✕	840	Beige Brown-MD
III	841	Beige Brown-LT
△	842	Beige Brown-VY LT
■	844	Beaver Brown-UL DK
☒	869	Hazelnut Brown-VY DK
★	900	Burnt Orange-DK

👤	919	Red Copper
▲	922	Copper-LT
■	934	Black Avocado Green
✧	950	Desert Sand-LT
↓	975	Golden Brown-DK
✂	976	Golden Brown-MD
🖌	3021	Brown Gray-VY DK
♡	3024	Brown Gray-VY LT
Ⓢ	3031	Mocha Brown-VY DK
Ⓢ	3032	Mocha Brown-MD
//	3041	Antique Violet-MD
○	3045	Yellow Beige-DK
∞	3047	Yellow Beige-LT
✂	3064	Desert Sand
◀	3328	Salmon-DK
+	3721	Shell Pink-DK
⦿	3722	Shell Pink-MD
⌌	3733	Dusty Rose
∨	3743	Antique Violet-VY LT
π	3756	Baby Blue-UL VY LT
⋈	3772	Desert Sand-VY DK
∇	3778	Terra Cotta-LT
m	3782	Mocha Brown-LT
🖌	3787	Brown Gray-DK
✂	3790	Beige Gray-UL DK
🖌	3799	Pewter Gray-VY DK
🖌	3802	Antique Mauve-VY DK
⋈	3828	Hazelnut Brown
■	3831	Raspberry-DK
♥	3857	Rosewood-DK
☼	3860	Cocoa
⦿	3861	Cocoa-LT
⋈	3862	Mocha Beige-DK
⋈	3863	Mocha Beige-MD
⋈	3864	Mocha Beige-LT
○	3866	Mocha Brown-UL VY LT
◊	Ecrú	Ecrú

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
⦿	221	Shell Pink-VY DK	300	Mahogany-VY DK
τ	223	Shell Pink-LT	3032	Mocha Brown-MD
⦿	223	Shell Pink-LT	3733	Dusty Rose
⋈	223	Shell Pink-LT	3778	Terra Cotta-LT
Ⓢ	223	Shell Pink-LT	3861	Cocoa-LT
🖌	301	Mahogany-MD	3776	Mahogany-LT
✂	315	Antique Mauve-VY DK	844	Beaver Brown-UL DK
=	317	Pewter Gray	645	Beaver Gray-VY DK
7	318	Steel Gray-LT	415	Pearl Gray
🖌	347	Salmon-VY DK	351	Coral
🖌	347	Salmon-VY DK	355	Terra Cotta-DK
*	347	Salmon-VY DK	900	Burnt Orange-DK
L	347	Salmon-VY DK	922	Copper-LT

☼	347	Salmon-VY DK	3801	Christmas Red-LT
◀	349	Coral-DK	606	Bright Orange-Red
☼	349	Coral-DK	900	Burnt Orange-DK
♠	351	Coral	900	Burnt Orange-DK
(	353	Peach	543	Beige Brown-UL VY LT
†	355	Terra Cotta-DK	632	Desert Sand-UL VY DK
♠	355	Terra Cotta-DK	900	Burnt Orange-DK
●	355	Terra Cotta-DK	3826	Golden Brown
☼	355	Terra Cotta-DK	3830	Terra Cotta-MD
☼	356	Terra Cotta-MD	420	Hazelnut Brown-DK
☼	356	Terra Cotta-MD	435	Brown-VY LT
☼	356	Terra Cotta-MD	3776	Mahogany-LT
☼	356	Terra Cotta-MD	3863	Mocha Beige-MD
☼	370	Mustard-MD	3828	Hazelnut Brown
×	371	Mustard	640	Beige Gray-VY DK
☼	372	Mustard-LT	738	Tan-VY LT
—	372	Mustard-LT	3864	Mocha Beige-LT
н	414	Steel Gray-DK	452	Shell Gray-MD
♠	414	Steel Gray-DK	646	Beaver Gray-DK
6	415	Pearl Gray	453	Shell Gray-LT
☼	422	Hazelnut Brown-LT	3828	Hazelnut Brown
☼	435	Brown-VY LT	436	Tan
☼	435	Brown-VY LT	632	Desert Sand-UL VY DK
#	435	Brown-VY LT	729	Old Gold-MD
=	435	Brown-VY LT	977	Golden Brown-LT
☼	435	Brown-VY LT	3721	Shell Pink-DK
☼	435	Brown-VY LT	3778	Terra Cotta-LT
☼	435	Brown-VY LT	3828	Hazelnut Brown
☼	435	Brown-VY LT	3862	Mocha Beige-DK
☼	436	Tan	977	Golden Brown-LT
☼	437	Tan-LT	676	Old Gold-LT
✱	451	Shell Gray-DK	640	Beige Gray-VY DK
☼	451	Shell Gray-DK	645	Beaver Gray-VY DK
×	451	Shell Gray-DK	3023	Brown Gray-LT
✓	452	Shell Gray-MD	778	Antique Mauve-VY LT
☼	452	Shell Gray-MD	842	Beige Brown-VY LT
☼	452	Shell Gray-MD	3733	Dusty Rose
☼	452	Shell Gray-MD	3860	Cocoa
▷	453	Shell Gray-LT	543	Beige Brown-UL VY LT
±	453	Shell Gray-LT	778	Antique Mauve-VY LT
5	524	Fern Green-VY LT	738	Tan-VY LT
e	524	Fern Green-VY LT	842	Beige Brown-VY LT
☼	535	Ash Gray-VY LT	646	Beaver Gray-DK
)	543	Beige Brown-UL VY LT	613	Drab Brown-VY LT
L	543	Beige Brown-UL VY LT	648	Beaver Gray-LT
▲	610	Drab Brown-DK	611	Drab Brown
●	610	Drab Brown-DK	839	Beige Brown-DK
☼	611	Drab Brown	612	Drab Brown-LT
■	611	Drab Brown	839	Beige Brown-DK
☼	611	Drab Brown	3045	Yellow Beige-DK
H	611	Drab Brown	3772	Desert Sand-VY DK
□	612	Drab Brown-LT	3013	Khaki Green-LT
☼	632	Desert Sand-UL VY DK	801	Coffee Brown-DK
☼	632	Desert Sand-UL VY DK	838	Beige Brown-VY DK
☼	632	Desert Sand-UL VY DK	840	Beige Brown-MD
☼	632	Desert Sand-UL VY DK	975	Golden Brown-DK
☼	632	Desert Sand-UL VY DK	3830	Terra Cotta-MD
☼	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
o	645	Beaver Gray-VY DK	3787	Brown Gray-DK

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▲	646	Beaver Gray-DK	3787	Brown Gray-DK
∞	712	Cream	762	Pearl Gray-VY LT
^	712	Cream	3743	Antique Violet-VY LT
u	712	Cream	3865	Winter White
::	729	Old Gold-MD	977	Golden Brown-LT
0	738	Tan-VY LT	3046	Yellow Beige-MD
3	738	Tan-VY LT	3782	Mocha Brown-LT
	758	Terra Cotta-VY LT	3064	Desert Sand
?	758	Terra Cotta-VY LT	3864	Mocha Beige-LT
☆	834	Golden Olive-VY LT	3045	Yellow Beige-DK
◆	838	Beige Brown-VY DK	844	Beaver Brown-UL DK
⋈	839	Beige Brown-DK	844	Beaver Brown-UL DK
Φ	839	Beige Brown-DK	3790	Beige Gray-UL DK
❖	840	Beige Brown-MD	3860	Cocoa
⌂	840	Beige Brown-MD	3862	Mocha Beige-DK
↑	841	Beige Brown-LT	3864	Mocha Beige-LT
✕	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
▨	844	Beaver Brown-UL DK	3860	Cocoa
◀	900	Burnt Orange-DK	3801	Christmas Red-LT
▼	900	Burnt Orange-DK	3830	Terra Cotta-MD
⊕	921	Copper	3776	Mahogany-LT
●	934	Black Avocado Green	3799	Pewter Gray-VY DK
●	938	Coffee Brown-UL DK	3799	Pewter Gray-VY DK
▲	3011	Khaki Green-DK	3781	Mocha Brown-DK
◇	3023	Brown Gray-LT	3861	Cocoa-LT
□	3024	Brown Gray-VY LT	3866	Mocha Brown-UL VY LT
↕	3046	Yellow Beige-MD	3855	Autumn Gold-LT
△	3064	Desert Sand	3864	Mocha Beige-LT
<	3072	Beaver Gray-VY LT	3743	Antique Violet-VY LT
z	3328	Salmon-DK	3722	Shell Pink-MD
⌘	3328	Salmon-DK	3778	Terra Cotta-LT
⌚	3328	Salmon-DK	3831	Raspberry-DK
■	3371	Black Brown	3799	Pewter Gray-VY DK
☾	3721	Shell Pink-DK	3863	Mocha Beige-MD
⊕	3733	Dusty Rose	3866	Mocha Brown-UL VY LT
♠	3740	Antique Violet-DK	3860	Cocoa
1	3756	Baby Blue-UL VY LT	3865	Winter White
⊕	3776	Mahogany-LT	3830	Terra Cotta-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	
221	Shell Pink-VY DK	82	32	78	30	71	27
223	Shell Pink-LT	535	210	510	200	459	180
224	Shell Pink-VY LT	250	98	238	93	215	84
300	Mahogany-VY DK	13	5	12	4	11	4
301	Mahogany-MD	122	48	117	46	105	41
315	Antique Mauve-VY DK	128	50	122	48	110	43
317	Pewter Gray	30	11	28	11	25	9
318	Steel Gray-LT	13	5	13	5	12	4
347	Salmon-VY DK	1771	697	1686	663	1518	597
349	Coral-DK	1702	670	1621	638	1459	574
351	Coral	350	137	333	131	300	118
353	Peach	36	14	34	13	31	12
355	Terra Cotta-DK	513	201	489	192	440	173
356	Terra Cotta-MD	528	207	503	198	453	178
370	Mustard-MD	122	48	117	46	105	41
371	Mustard	183	72	175	68	157	61
372	Mustard-LT	391	153	372	146	335	131
407	Desert Sand-DK	251	98	239	94	215	84
413	Pewter Gray-DK	43	16	41	16	37	14
414	Steel Gray-DK	45	17	43	16	38	14
415	Pearl Gray	355	139	338	133	305	120
420	Hazelnut Brown-DK	132	51	125	49	113	44
422	Hazelnut Brown-LT	525	206	500	196	450	177
435	Brown-VY LT	1004	395	956	376	861	338
436	Tan	187	73	178	70	160	62
437	Tan-LT	269	105	257	101	231	90
451	Shell Gray-DK	727	286	692	272	623	245
452	Shell Gray-MD	1070	421	1019	401	918	361
453	Shell Gray-LT	1737	683	1655	651	1489	586
524	Fern Green-VY LT	379	149	361	142	325	127
535	Ash Gray-VY LT	449	176	427	168	385	151
543	Beige Brown-UL VY LT	832	327	792	311	713	280
606	Bright Orange-Red	865	340	824	324	742	292
610	Drab Brown-DK	126	49	120	47	108	42
611	Drab Brown	571	224	544	214	490	192
612	Drab Brown-LT	730	287	695	273	626	246
613	Drab Brown-VY LT	486	191	463	182	416	163
632	Desert Sand-UL VY DK	1668	656	1589	625	1430	562
640	Beige Gray-VY DK	471	185	449	176	404	159
644	Beige Gray-MD	272	107	259	101	233	91
645	Beaver Gray-VY DK	602	237	574	225	516	203
646	Beaver Gray-DK	192	75	183	72	165	64
647	Beaver Gray-MD	38	14	36	14	32	12
648	Beaver Gray-LT	741	291	706	277	635	250
666	Christmas Red-BRT	151	59	144	56	129	50
676	Old Gold-LT	38	14	36	14	32	12
712	Cream	496	195	472	185	425	167
729	Old Gold-MD	257	101	244	96	220	86
733	Olive Green-MD	17	6	16	6	14	5
734	Olive Green-LT	49	19	46	18	42	16
738	Tan-VY LT	1060	417	1010	397	909	357
739	Tan-UL VY LT	207	81	197	77	178	70
754	Peach-LT	12	4	11	4	10	3



758	Terra Cotta-VY LT	479	188	456	179	410	161
762	Pearl Gray-VY LT	85	33	81	31	73	28
778	Antique Mauve-VY LT	488	192	465	183	419	164
801	Coffee Brown-DK	137	53	130	51	117	46
822	Beige Gray-LT	277	109	263	103	237	93
834	Golden Olive-VY LT	316	124	301	118	271	106
838	Beige Brown-VY DK	198	77	189	74	170	66
839	Beige Brown-DK	788	310	751	295	676	266
840	Beige Brown-MD	891	350	848	333	764	300
841	Beige Brown-LT	554	218	527	207	475	187
842	Beige Brown-VY LT	1060	417	1010	397	909	357
844	Beaver Brown-UL DK	1620	637	1543	607	1389	546
869	Hazelnut Brown-VY DK	19	7	18	7	16	6
900	Burnt Orange-DK	2530	996	2410	948	2169	853
919	Red Copper	83	32	79	31	71	27
921	Copper	33	12	31	12	28	11
922	Copper-LT	384	151	366	144	330	129
934	Black Avocado Green	128	50	122	48	110	43
938	Coffee Brown-UL DK	157	61	149	58	134	52
950	Desert Sand-LT	217	85	207	81	186	73
975	Golden Brown-DK	80	31	76	29	68	26
976	Golden Brown-MD	29	11	28	11	25	9
977	Golden Brown-LT	188	74	180	70	162	63
3011	Khaki Green-DK	10	3	9	3	8	3
3013	Khaki Green-LT	97	38	93	36	84	33
3021	Brown Gray-VY DK	149	58	142	55	128	50
3023	Brown Gray-LT	199	78	190	74	171	67
3024	Brown Gray-VY LT	560	220	533	209	480	188
3031	Mocha Brown-VY DK	112	44	106	41	96	37
3032	Mocha Brown-MD	514	202	490	192	441	173
3041	Antique Violet-MD	22	8	21	8	19	7
3045	Yellow Beige-DK	505	198	481	189	433	170
3046	Yellow Beige-MD	127	50	121	47	109	42
3047	Yellow Beige-LT	74	29	70	27	63	24
3064	Desert Sand	674	265	642	252	577	227
3072	Beaver Gray-VY LT	224	88	213	83	192	75
3328	Salmon-DK	346	136	329	129	296	116
3371	Black Brown	79	31	75	29	68	26
3721	Shell Pink-DK	487	191	464	182	418	164
3722	Shell Pink-MD	140	55	133	52	120	47
3733	Dusty Rose	337	132	321	126	289	113
3740	Antique Violet-DK	76	29	73	28	66	25
3743	Antique Violet-VY LT	708	278	674	265	607	238
3756	Baby Blue-UL VY LT	40	15	38	14	35	13
3772	Desert Sand-VY DK	488	192	465	183	419	164
3776	Mahogany-LT	233	91	222	87	200	78
3778	Terra Cotta-LT	503	198	479	188	431	169
3781	Mocha Brown-DK	10	3	9	3	8	3
3782	Mocha Brown-LT	554	218	528	207	475	187
3787	Brown Gray-DK	614	241	585	230	526	207
3790	Beige Gray-UL DK	486	191	463	182	417	164
3799	Pewter Gray-VY DK	693	272	660	259	594	233
3801	Christmas Red-LT	525	206	500	196	450	177
3802	Antique Mauve-VY DK	35	13	33	12	30	11
3826	Golden Brown	35	13	33	12	30	11
3828	Hazelnut Brown	622	244	592	233	533	209
3830	Terra Cotta-MD	619	243	589	231	531	209
3831	Raspberry-DK	177	69	169	66	152	59
3855	Autumn Gold-LT	28	11	27	10	24	9

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3857	Rosewood-DK	47	18	45	17	41	16
3860	Cocoa	955	375	910	358	819	322
3861	Cocoa-LT	259	101	247	97	222	87
3862	Mocha Beige-DK	666	262	634	249	571	224
3863	Mocha Beige-MD	882	347	840	330	756	297
3864	Mocha Beige-LT	1139	448	1085	427	976	384
3865	Winter White	108	42	103	40	92	36
3866	Mocha Brown-UL VY LT	534	210	509	200	458	180
Ecru	Ecru	184	72	175	68	157	61

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	128	49	107	41	53	20
223	Shell Pink-LT	826	324	689	270	344	135
224	Shell Pink-VY LT	387	151	323	126	161	63
300	Mahogany-VY DK	20	7	17	6	8	3
301	Mahogany-MD	189	74	158	62	79	31
315	Antique Mauve-VY DK	198	77	165	65	83	32
317	Pewter Gray	45	16	38	14	19	7
318	Steel Gray-LT	22	7	18	6	9	3
347	Salmon-VY DK	2732	1075	2277	896	1139	448
349	Coral-DK	2626	1033	2189	861	1094	431
351	Coral	540	212	450	177	225	89
353	Peach	56	22	47	18	23	9
355	Terra Cotta-DK	792	311	660	260	330	130
356	Terra Cotta-MD	815	320	680	267	340	134
370	Mustard-MD	189	74	158	62	79	31
371	Mustard	283	110	236	92	118	46
372	Mustard-LT	603	236	503	197	251	98
407	Desert Sand-DK	387	151	323	126	161	63
413	Pewter Gray-DK	67	25	56	21	28	11
414	Steel Gray-DK	68	25	57	21	29	11
415	Pearl Gray	549	216	458	180	229	90
420	Hazelnut Brown-DK	203	79	170	66	85	33
422	Hazelnut Brown-LT	810	319	675	266	338	133
435	Brown-VY LT	1550	608	1292	507	646	254
436	Tan	288	112	240	93	120	47
437	Tan-LT	416	162	347	135	173	68
451	Shell Gray-DK	1121	441	935	368	467	184
452	Shell Gray-MD	1652	650	1377	542	689	271
453	Shell Gray-LT	2680	1055	2234	879	1117	440
524	Fern Green-VY LT	585	229	488	191	244	95
535	Ash Gray-VY LT	693	272	578	227	289	113
543	Beige Brown-UL VY LT	1283	504	1070	420	535	210
606	Bright Orange-Red	1336	526	1113	438	557	219
610	Drab Brown-DK	194	76	162	63	81	32
611	Drab Brown	882	346	735	288	368	144
612	Drab Brown-LT	1127	443	939	369	470	185
613	Drab Brown-VY LT	749	293	624	245	312	122
632	Desert Sand-UL VY DK	2574	1012	2145	843	1073	422
640	Beige Gray-VY DK	727	286	606	239	303	119
644	Beige Gray-MD	419	164	350	137	175	68
645	Beaver Gray-VY DK	929	365	774	305	387	152
646	Beaver Gray-DK	297	115	248	96	124	48
647	Beaver Gray-MD	58	22	48	18	24	9

648	Beaver Gray-LT	1143	450	953	375	476	188
666	Christmas Red-BRT	232	90	194	75	97	38
676	Old Gold-LT	58	22	48	18	24	9
712	Cream	765	301	638	251	319	125
729	Old Gold-MD	396	155	330	129	165	65
733	Olive Green-MD	25	9	21	8	11	4
734	Olive Green-LT	76	29	63	24	32	12
738	Tan-VY LT	1636	643	1364	536	682	268
739	Tan-UL VY LT	320	126	267	105	134	53
754	Peach-LT	18	5	15	5	8	2
758	Terra Cotta-VY LT	738	290	615	242	308	121
762	Pearl Gray-VY LT	131	50	110	42	55	21
778	Antique Mauve-VY LT	754	295	629	246	314	123
801	Coffee Brown-DK	211	83	176	69	88	35
822	Beige Gray-LT	427	167	356	140	178	70
834	Golden Olive-VY LT	488	191	407	159	203	80
838	Beige Brown-VY DK	306	119	255	99	128	50
839	Beige Brown-DK	1217	479	1014	399	507	200
840	Beige Brown-MD	1375	540	1146	450	573	225
841	Beige Brown-LT	855	337	713	281	356	140
842	Beige Brown-VY LT	1636	643	1364	536	682	268
844	Beaver Brown-UL DK	2500	983	2084	819	1042	410
869	Hazelnut Brown-VY DK	29	11	24	9	12	5
900	Burnt Orange-DK	3904	1535	3254	1280	1627	640
919	Red Copper	128	49	107	41	53	20
921	Copper	50	20	42	17	21	8
922	Copper-LT	594	232	495	194	248	97
934	Black Avocado Green	198	77	165	65	83	32
938	Coffee Brown-UL DK	241	94	201	78	101	39
950	Desert Sand-LT	335	131	279	110	140	55
975	Golden Brown-DK	122	47	102	39	51	20
976	Golden Brown-MD	45	16	38	14	19	7
977	Golden Brown-LT	292	113	243	95	122	47
3011	Khaki Green-DK	14	5	12	5	6	2
3013	Khaki Green-LT	151	59	126	50	63	25
3021	Brown Gray-VY DK	230	90	192	75	96	38
3023	Brown Gray-LT	308	121	257	101	128	50
3024	Brown Gray-VY LT	864	338	720	282	360	141
3031	Mocha Brown-VY DK	173	67	144	56	72	28
3032	Mocha Brown-MD	794	311	662	260	331	130
3041	Antique Violet-MD	34	13	29	11	14	5
3045	Yellow Beige-DK	779	306	650	255	325	128
3046	Yellow Beige-MD	196	76	164	63	82	32
3047	Yellow Beige-LT	113	43	95	36	47	18
3064	Desert Sand	1039	409	866	341	433	170
3072	Beaver Gray-VY LT	346	135	288	113	144	56
3328	Salmon-DK	533	209	444	174	222	87
3371	Black Brown	122	47	102	39	51	20
3721	Shell Pink-DK	752	295	627	246	314	123
3722	Shell Pink-MD	216	85	180	71	90	35
3733	Dusty Rose	520	203	434	170	217	85
3740	Antique Violet-DK	119	45	99	38	50	19
3743	Antique Violet-VY LT	1093	428	911	357	455	179
3756	Baby Blue-UL VY LT	63	23	53	20	26	10
3772	Desert Sand-VY DK	754	295	629	246	314	123
3776	Mahogany-LT	360	140	300	117	150	59
3778	Terra Cotta-LT	776	304	647	254	323	127
3781	Mocha Brown-DK	14	5	12	5	6	2
3782	Mocha Brown-LT	855	337	713	281	356	140

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3787	Brown Gray-DK	947	373	789	311	395	155
3790	Beige Gray-UL DK	751	295	626	246	313	123
3799	Pewter Gray-VY DK	1069	419	891	350	446	175
3801	Christmas Red-LT	810	319	675	266	338	133
3802	Antique Mauve-VY DK	54	20	45	17	23	8
3826	Golden Brown	54	20	45	17	23	8
3828	Hazelnut Brown	959	376	800	314	400	157
3830	Terra Cotta-MD	956	376	797	314	398	157
3831	Raspberry-DK	274	106	228	89	114	44
3855	Autumn Gold-LT	43	16	36	14	18	7
3857	Rosewood-DK	74	29	62	24	31	12
3860	Cocoa	1474	580	1229	483	614	242
3861	Cocoa-LT	400	157	333	131	167	65
3862	Mocha Beige-DK	1028	403	857	336	428	168
3863	Mocha Beige-MD	1361	535	1134	446	567	223
3864	Mocha Beige-LT	1757	691	1464	576	732	288
3865	Winter White	166	65	138	54	69	27
3866	Mocha Brown-UL VY LT	824	324	687	270	344	135
Ecru	Ecru	283	110	236	92	118	46

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	51	19	49	19	47	18
223	Shell Pink-LT	330	130	318	125	306	120
224	Shell Pink-VY LT	155	60	149	58	143	56
300	Mahogany-VY DK	8	3	8	3	7	3
301	Mahogany-MD	76	30	73	28	70	27
315	Antique Mauve-VY DK	79	31	76	30	73	29
317	Pewter Gray	18	6	17	6	17	6
318	Steel Gray-LT	9	3	8	3	8	3
347	Salmon-VY DK	1093	430	1051	413	1012	398
349	Coral-DK	1050	413	1010	397	973	383
351	Coral	216	85	208	82	200	79
353	Peach	22	9	21	8	21	8
355	Terra Cotta-DK	317	125	305	120	293	115
356	Terra Cotta-MD	326	128	314	123	302	119
370	Mustard-MD	76	30	73	28	70	27
371	Mustard	113	44	109	42	105	41
372	Mustard-LT	241	94	232	91	223	87
407	Desert Sand-DK	155	60	149	58	143	56
413	Pewter Gray-DK	27	10	26	10	25	9
414	Steel Gray-DK	27	10	26	10	25	9
415	Pearl Gray	220	86	211	83	203	80
420	Hazelnut Brown-DK	81	32	78	30	75	29
422	Hazelnut Brown-LT	324	127	312	123	300	118
435	Brown-VY LT	620	243	596	234	574	225
436	Tan	115	45	111	43	107	41
437	Tan-LT	166	65	160	62	154	60
451	Shell Gray-DK	449	176	431	170	415	163
452	Shell Gray-MD	661	260	636	250	612	241
453	Shell Gray-LT	1072	422	1031	406	993	391
524	Fern Green-VY LT	234	91	225	88	217	85
535	Ash Gray-VY LT	277	109	267	105	257	101
543	Beige Brown-UL VY LT	513	202	494	194	475	187
606	Bright Orange-Red	534	210	514	202	495	195

610	Drab Brown-DK	78	30	75	29	72	28
611	Drab Brown	353	138	339	133	327	128
612	Drab Brown-LT	451	177	433	170	417	164
613	Drab Brown-VY LT	300	117	288	113	277	109
632	Desert Sand-UL VY DK	1030	405	990	389	953	375
640	Beige Gray-VY DK	291	114	280	110	269	106
644	Beige Gray-MD	168	66	161	63	155	61
645	Beaver Gray-VY DK	372	146	357	141	344	135
646	Beaver Gray-DK	119	46	114	44	110	43
647	Beaver Gray-MD	23	9	22	8	21	8
648	Beaver Gray-LT	457	180	440	173	423	167
666	Christmas Red-BRT	93	36	89	35	86	33
676	Old Gold-LT	23	9	22	8	21	8
712	Cream	306	120	294	116	283	111
729	Old Gold-MD	158	62	152	60	147	57
733	Olive Green-MD	10	4	10	3	9	3
734	Olive Green-LT	30	12	29	11	28	11
738	Tan-VY LT	654	257	629	247	606	238
739	Tan-UL VY LT	128	50	123	48	119	47
754	Peach-LT	7	2	7	2	7	2
758	Terra Cotta-VY LT	295	116	284	111	273	107
762	Pearl Gray-VY LT	53	20	51	19	49	19
778	Antique Mauve-VY LT	302	118	290	114	279	109
801	Coffee Brown-DK	84	33	81	32	78	31
822	Beige Gray-LT	171	67	164	64	158	62
834	Golden Olive-VY LT	195	76	188	73	181	71
838	Beige Brown-VY DK	122	48	118	46	113	44
839	Beige Brown-DK	487	192	468	184	451	177
840	Beige Brown-MD	550	216	529	208	509	200
841	Beige Brown-LT	342	135	329	129	317	125
842	Beige Brown-VY LT	654	257	629	247	606	238
844	Beaver Brown-UL DK	1000	393	962	378	926	364
869	Hazelnut Brown-VY DK	12	4	11	4	11	4
900	Burnt Orange-DK	1562	614	1502	591	1446	569
919	Red Copper	51	19	49	19	47	18
921	Copper	20	8	19	8	19	7
922	Copper-LT	238	93	228	89	220	86
934	Black Avocado Green	79	31	76	30	73	29
938	Coffee Brown-UL DK	96	37	93	36	89	35
950	Desert Sand-LT	134	53	129	51	124	49
975	Golden Brown-DK	49	19	47	18	45	17
976	Golden Brown-MD	18	6	17	6	17	6
977	Golden Brown-LT	117	45	112	44	108	42
3011	Khaki Green-DK	6	2	6	2	5	2
3013	Khaki Green-LT	60	24	58	23	56	22
3021	Brown Gray-VY DK	92	36	89	35	85	33
3023	Brown Gray-LT	123	48	118	46	114	45
3024	Brown Gray-VY LT	346	135	332	130	320	125
3031	Mocha Brown-VY DK	69	27	66	26	64	25
3032	Mocha Brown-MD	318	125	305	120	294	115
3041	Antique Violet-MD	14	5	13	5	13	5
3045	Yellow Beige-DK	312	122	300	118	289	113
3046	Yellow Beige-MD	78	30	75	29	73	28
3047	Yellow Beige-LT	45	17	44	17	42	16
3064	Desert Sand	415	163	399	157	385	151
3072	Beaver Gray-VY LT	138	54	133	52	128	50
3328	Salmon-DK	213	84	205	80	197	77
3371	Black Brown	49	19	47	18	45	17
3721	Shell Pink-DK	301	118	289	114	279	109

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3722	Shell Pink-MD	86	34	83	33	80	31
3733	Dusty Rose	208	81	200	78	193	75
3740	Antique Violet-DK	48	18	46	17	44	17
3743	Antique Violet-VY LT	437	171	420	165	405	159
3756	Baby Blue-UL VY LT	25	9	24	9	23	9
3772	Desert Sand-VY DK	302	118	290	114	279	109
3776	Mahogany-LT	144	56	138	54	133	52
3778	Terra Cotta-LT	310	122	298	117	287	113
3781	Mocha Brown-DK	6	2	6	2	5	2
3782	Mocha Brown-LT	342	135	329	129	317	125
3787	Brown Gray-DK	379	149	364	143	351	138
3790	Beige Gray-UL DK	300	118	289	114	278	109
3799	Pewter Gray-VY DK	428	168	411	161	396	155
3801	Christmas Red-LT	324	127	312	123	300	118
3802	Antique Mauve-VY DK	22	8	21	8	20	7
3826	Golden Brown	22	8	21	8	20	7
3828	Hazelnut Brown	384	150	369	145	355	139
3830	Terra Cotta-MD	382	150	368	145	354	139
3831	Raspberry-DK	109	42	105	41	101	39
3855	Autumn Gold-LT	17	6	17	6	16	6
3857	Rosewood-DK	30	12	28	11	27	11
3860	Cocoa	590	232	567	223	546	215
3861	Cocoa-LT	160	63	154	60	148	58
3862	Mocha Beige-DK	411	161	395	155	381	149
3863	Mocha Beige-MD	544	214	523	206	504	198
3864	Mocha Beige-LT	703	276	676	266	651	256
3865	Winter White	66	26	64	25	61	24
3866	Mocha Brown-UL VY LT	330	130	317	125	305	120
Ecru	Ecru	113	44	109	42	105	41

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	46	17	43	16	40	15
223	Shell Pink-LT	295	116	275	108	258	101
224	Shell Pink-VY LT	138	54	129	50	121	47
300	Mahogany-VY DK	7	3	7	2	6	2
301	Mahogany-MD	68	26	63	25	59	23
315	Antique Mauve-VY DK	71	28	66	26	62	24
317	Pewter Gray	16	6	15	5	14	5
318	Steel Gray-LT	8	3	7	2	7	2
347	Salmon-VY DK	976	384	911	358	854	336
349	Coral-DK	938	369	875	344	821	323
351	Coral	193	76	180	71	169	66
353	Peach	20	8	19	7	17	7
355	Terra Cotta-DK	283	111	264	104	248	97
356	Terra Cotta-MD	291	114	272	107	255	100
370	Mustard-MD	68	26	63	25	59	23
371	Mustard	101	39	94	37	88	34
372	Mustard-LT	215	84	201	79	188	74
407	Desert Sand-DK	138	54	129	50	121	47
413	Pewter Gray-DK	24	9	22	8	21	8
414	Steel Gray-DK	24	9	23	8	21	8
415	Pearl Gray	196	77	183	72	172	68
420	Hazelnut Brown-DK	73	28	68	26	64	25
422	Hazelnut Brown-LT	289	114	270	106	253	100

435	Brown-VY LT	554	217	517	203	484	190
436	Tan	103	40	96	37	90	35
437	Tan-LT	149	58	139	54	130	51
451	Shell Gray-DK	401	158	374	147	350	138
452	Shell Gray-MD	590	232	551	217	516	203
453	Shell Gray-LT	957	377	893	352	838	330
524	Fern Green-VY LT	209	82	195	76	183	71
535	Ash Gray-VY LT	248	97	231	91	217	85
543	Beige Brown-UL VY LT	458	180	428	168	401	158
606	Bright Orange-Red	477	188	445	175	417	164
610	Drab Brown-DK	69	27	65	25	61	24
611	Drab Brown	315	123	294	115	276	108
612	Drab Brown-LT	402	158	376	148	352	138
613	Drab Brown-VY LT	267	105	250	98	234	92
632	Desert Sand-UL VY DK	919	361	858	337	804	316
640	Beige Gray-VY DK	260	102	242	95	227	89
644	Beige Gray-MD	150	59	140	55	131	51
645	Beaver Gray-VY DK	332	131	310	122	290	114
646	Beaver Gray-DK	106	41	99	38	93	36
647	Beaver Gray-MD	21	8	19	7	18	7
648	Beaver Gray-LT	408	161	381	150	357	141
666	Christmas Red-BRT	83	32	77	30	73	28
676	Old Gold-LT	21	8	19	7	18	7
712	Cream	273	107	255	100	239	94
729	Old Gold-MD	141	55	132	52	124	48
733	Olive Green-MD	9	3	8	3	8	3
734	Olive Green-LT	27	10	25	10	24	9
738	Tan-VY LT	584	230	545	214	511	201
739	Tan-UL VY LT	114	45	107	42	100	39
754	Peach-LT	6	2	6	2	6	2
758	Terra Cotta-VY LT	264	104	246	97	231	91
762	Pearl Gray-VY LT	47	18	44	17	41	16
778	Antique Mauve-VY LT	269	105	251	98	236	92
801	Coffee Brown-DK	75	30	70	28	66	26
822	Beige Gray-LT	152	60	142	56	133	52
834	Golden Olive-VY LT	174	68	163	64	152	60
838	Beige Brown-VY DK	109	42	102	40	96	37
839	Beige Brown-DK	435	171	406	160	380	150
840	Beige Brown-MD	491	193	458	180	430	169
841	Beige Brown-LT	305	120	285	112	267	105
842	Beige Brown-VY LT	584	230	545	214	511	201
844	Beaver Brown-UL DK	893	351	833	328	781	307
869	Hazelnut Brown-VY DK	10	4	10	4	9	3
900	Burnt Orange-DK	1394	548	1301	512	1220	480
919	Red Copper	46	17	43	16	40	15
921	Copper	18	7	17	7	16	6
922	Copper-LT	212	83	198	77	186	73
934	Black Avocado Green	71	28	66	26	62	24
938	Coffee Brown-UL DK	86	33	80	31	75	29
950	Desert Sand-LT	120	47	112	44	105	41
975	Golden Brown-DK	44	17	41	16	38	15
976	Golden Brown-MD	16	6	15	5	14	5
977	Golden Brown-LT	104	41	97	38	91	35
3011	Khaki Green-DK	5	2	5	2	5	2
3013	Khaki Green-LT	54	21	50	20	47	19
3021	Brown Gray-VY DK	82	32	77	30	72	28
3023	Brown Gray-LT	110	43	103	40	96	38
3024	Brown Gray-VY LT	309	121	288	113	270	106
3031	Mocha Brown-VY DK	62	24	58	22	54	21

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3032	Mocha Brown-MD	284	111	265	104	248	97
3041	Antique Violet-MD	12	5	11	4	11	4
3045	Yellow Beige-DK	278	109	260	102	244	96
3046	Yellow Beige-MD	70	27	65	25	61	24
3047	Yellow Beige-LT	41	15	38	14	35	14
3064	Desert Sand	371	146	346	136	325	128
3072	Beaver Gray-VY LT	123	48	115	45	108	42
3328	Salmon-DK	190	75	178	70	167	65
3371	Black Brown	44	17	41	16	38	15
3721	Shell Pink-DK	269	105	251	98	235	92
3722	Shell Pink-MD	77	30	72	28	68	26
3733	Dusty Rose	186	73	173	68	163	64
3740	Antique Violet-DK	42	16	40	15	37	14
3743	Antique Violet-VY LT	390	153	364	143	341	134
3756	Baby Blue-UL VY LT	23	8	21	8	20	7
3772	Desert Sand-VY DK	269	105	251	98	236	92
3776	Mahogany-LT	129	50	120	47	113	44
3778	Terra Cotta-LT	277	109	259	101	242	95
3781	Mocha Brown-DK	5	2	5	2	5	2
3782	Mocha Brown-LT	305	120	285	112	267	105
3787	Brown Gray-DK	338	133	316	124	296	116
3790	Beige Gray-UL DK	268	105	250	98	235	92
3799	Pewter Gray-VY DK	382	150	356	140	334	131
3801	Christmas Red-LT	289	114	270	106	253	100
3802	Antique Mauve-VY DK	19	7	18	7	17	6
3826	Golden Brown	19	7	18	7	17	6
3828	Hazelnut Brown	343	134	320	125	300	118
3830	Terra Cotta-MD	341	134	319	125	299	118
3831	Raspberry-DK	98	38	91	35	86	33
3855	Autumn Gold-LT	15	6	14	5	14	5
3857	Rosewood-DK	26	10	25	10	23	9
3860	Cocoa	527	207	491	193	461	181
3861	Cocoa-LT	143	56	133	52	125	49
3862	Mocha Beige-DK	367	144	343	134	321	126
3863	Mocha Beige-MD	486	191	454	178	425	167
3864	Mocha Beige-LT	627	247	586	230	549	216
3865	Winter White	59	23	55	22	52	20
3866	Mocha Brown-UL VY LT	294	116	275	108	258	101
Ecru	Ecru	101	39	94	37	88	34

(13)

[illegible]

[illegible]

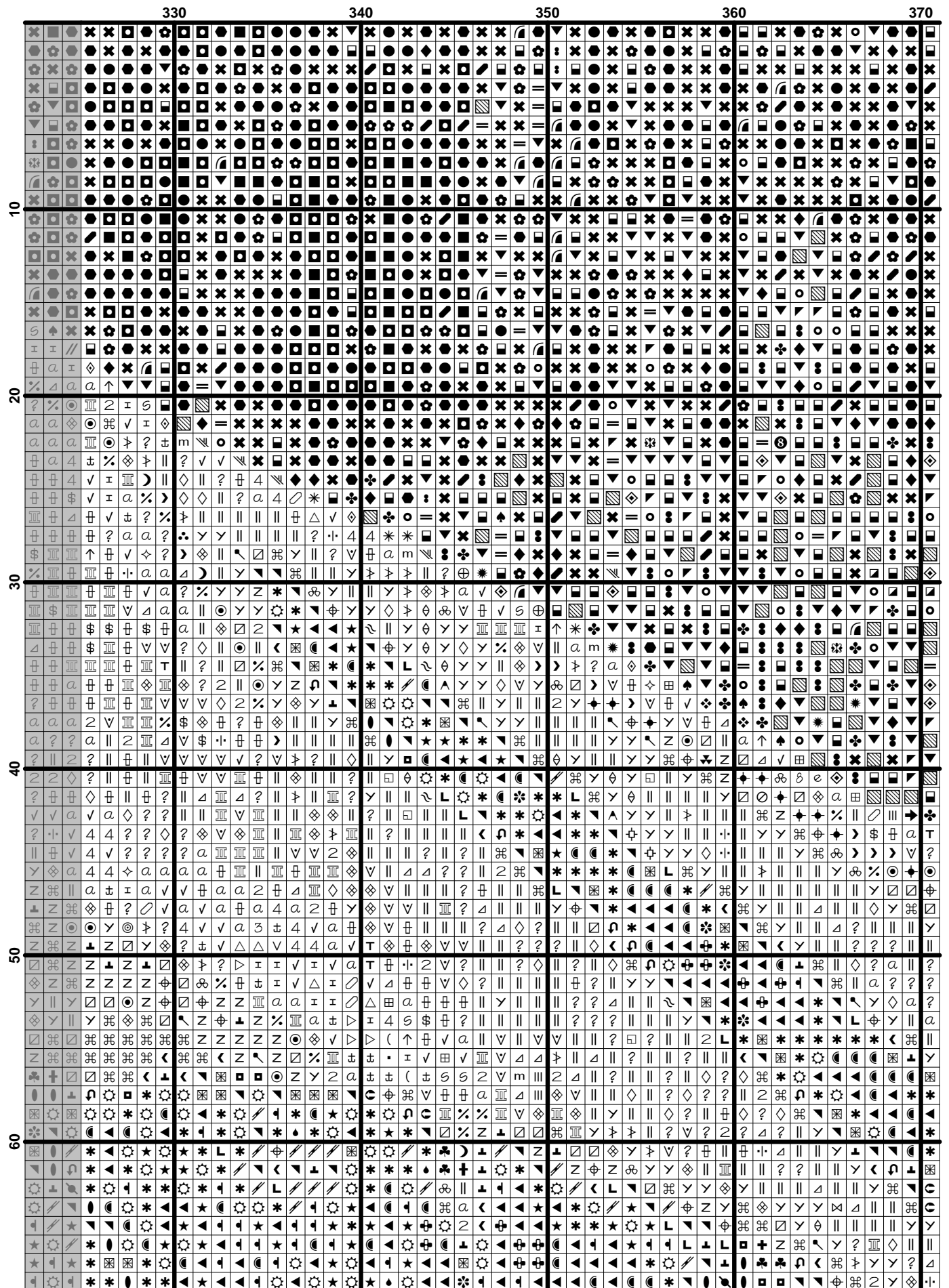
$$(15) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

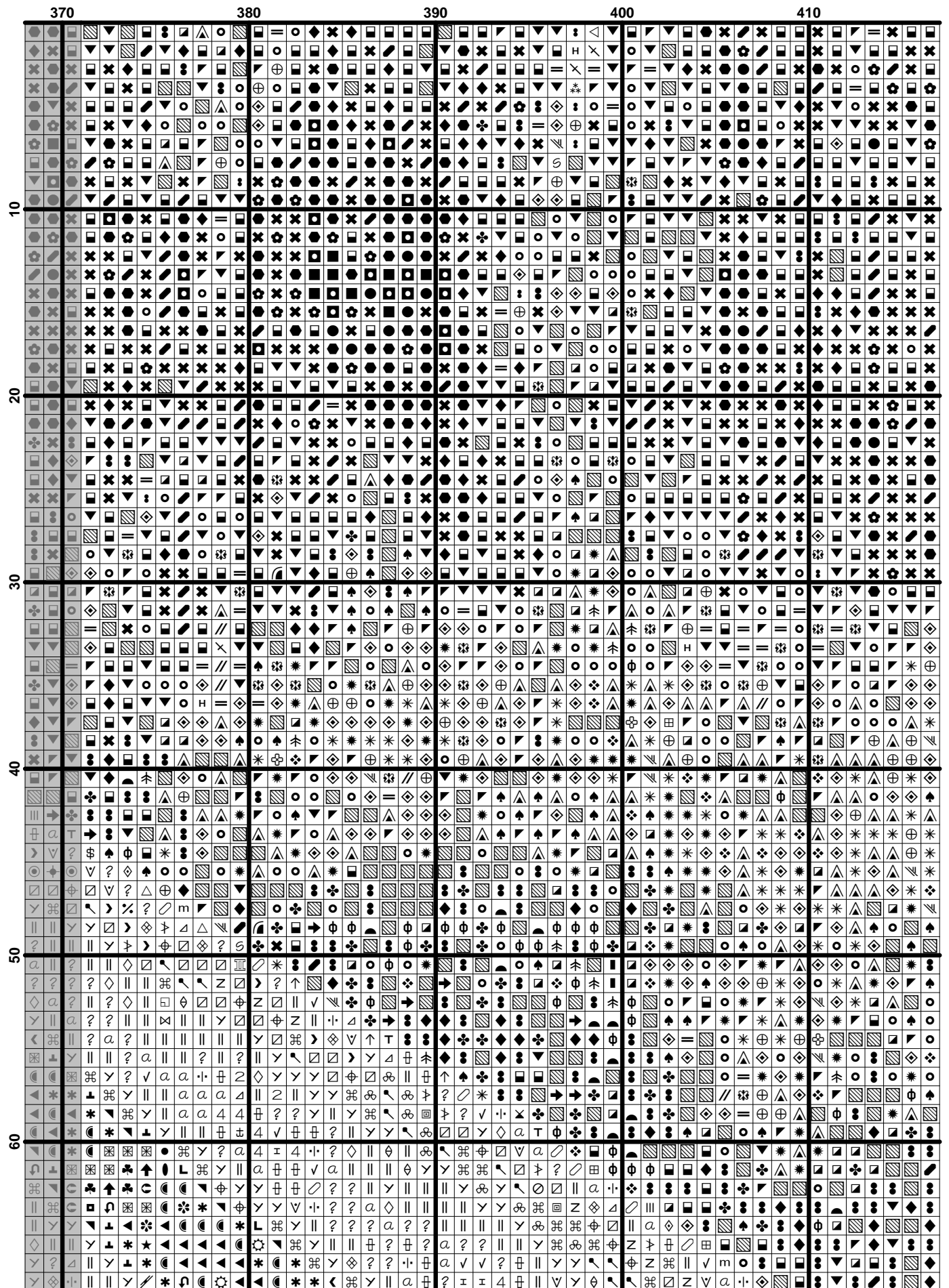
	190	200	210	220	230
10					
20					
30					
40					
50					
60					

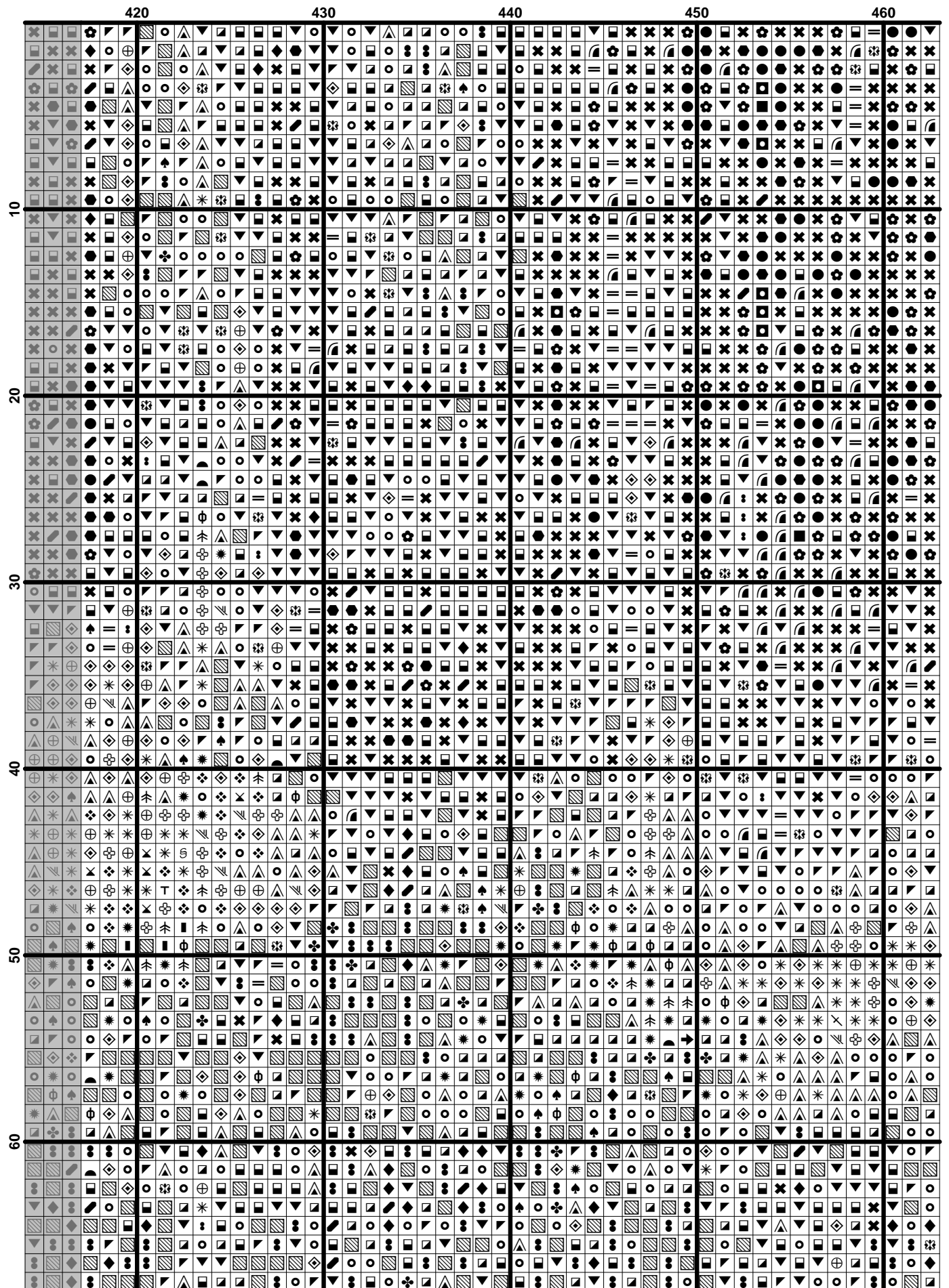
	230	240	250	260	270
10					
20					
30					
40					
50					
60					

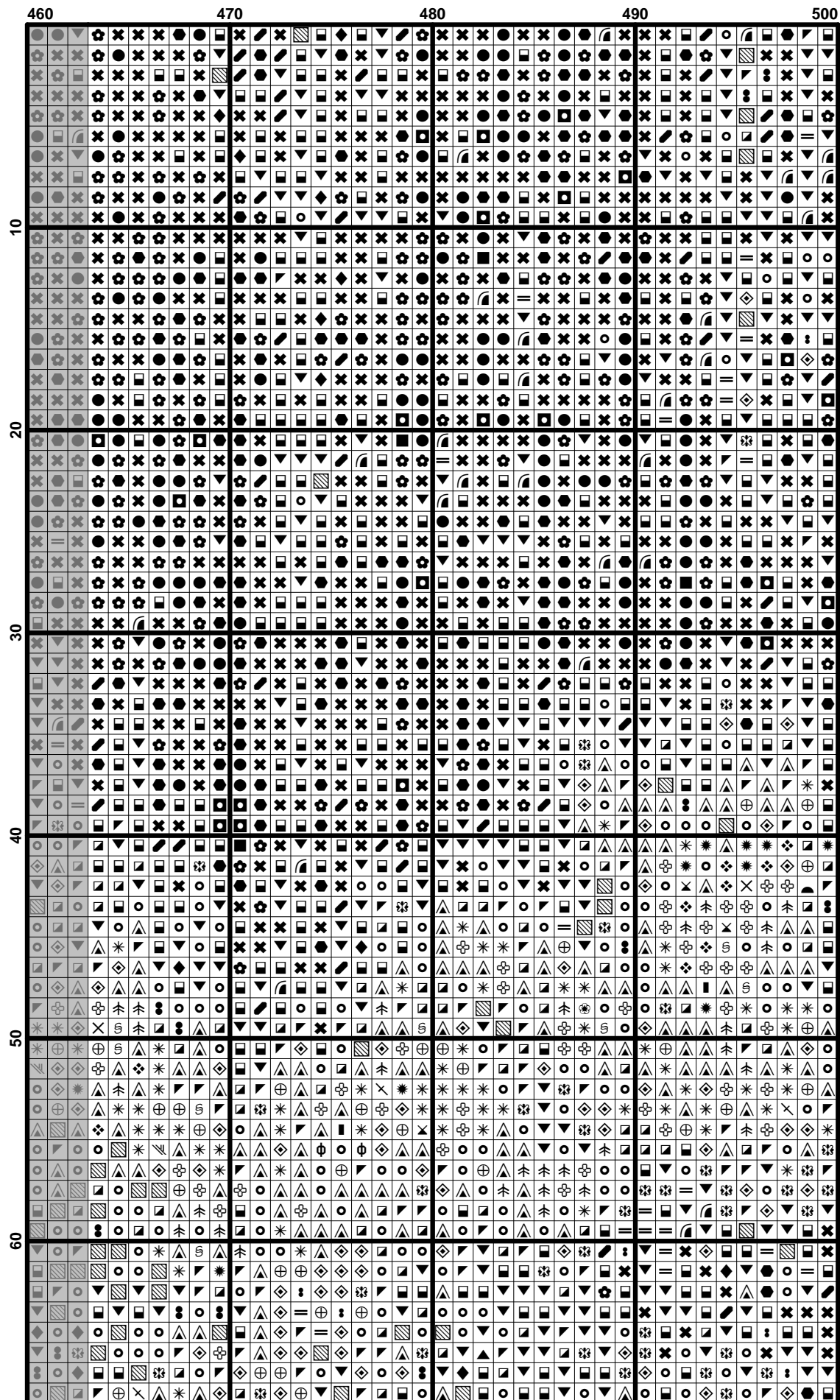


[illegible]









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90																																								
100																																								
110																																								
120																																								
130																																								

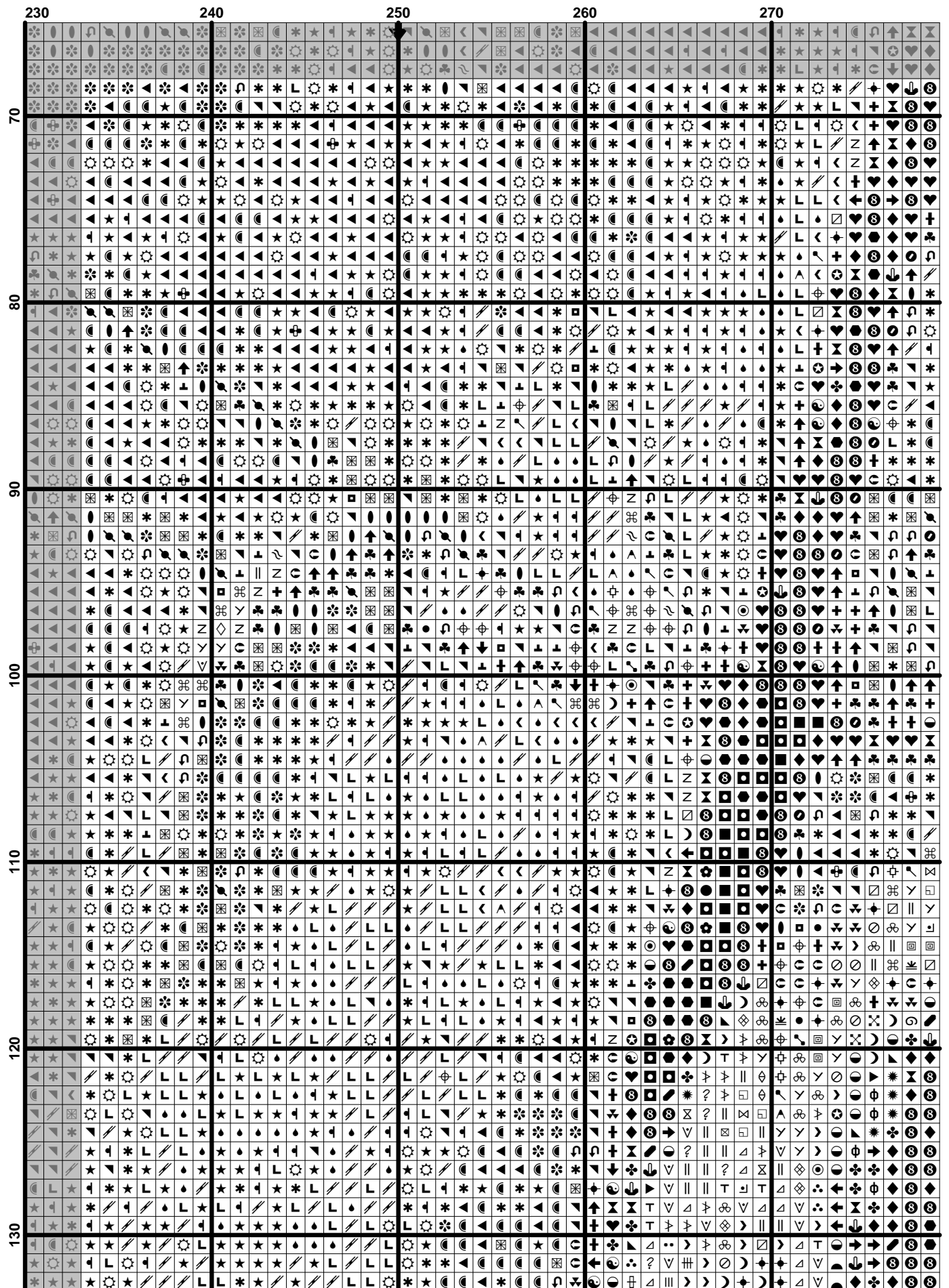
[illegible]



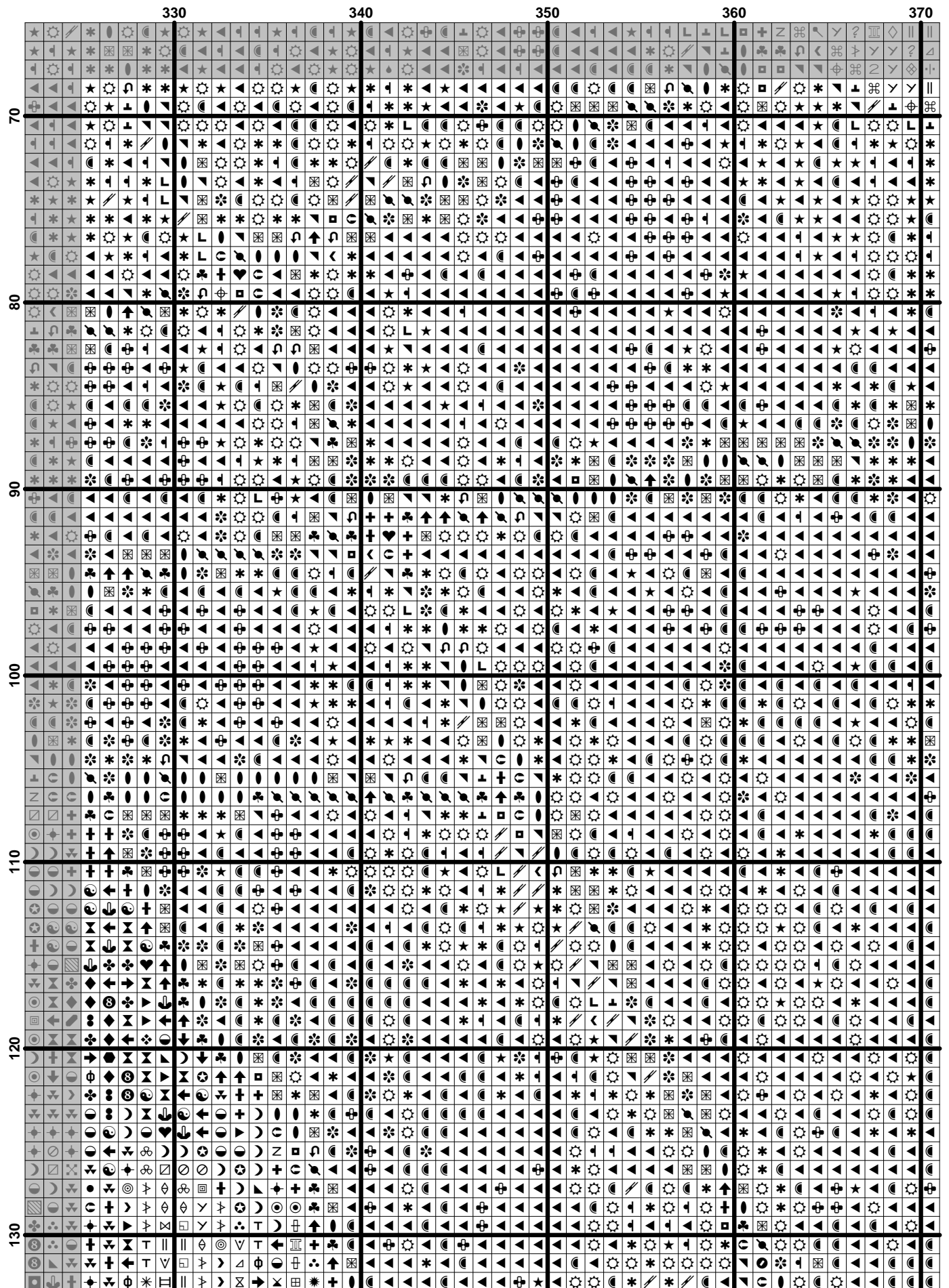
	100	110	120	130	140
70					
80					
90					
100					
110					
120					
130					

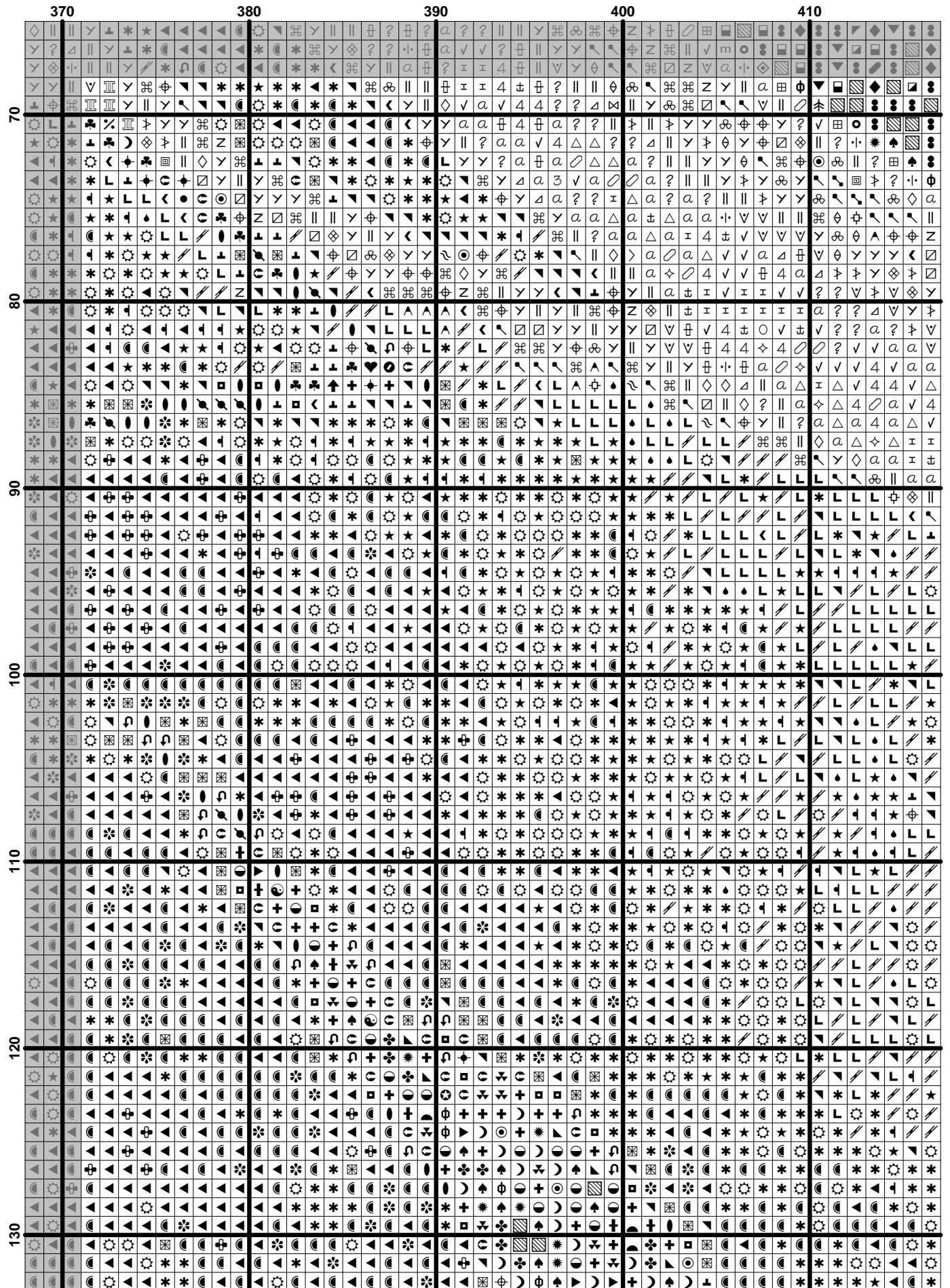
[illegible]

[illegible]

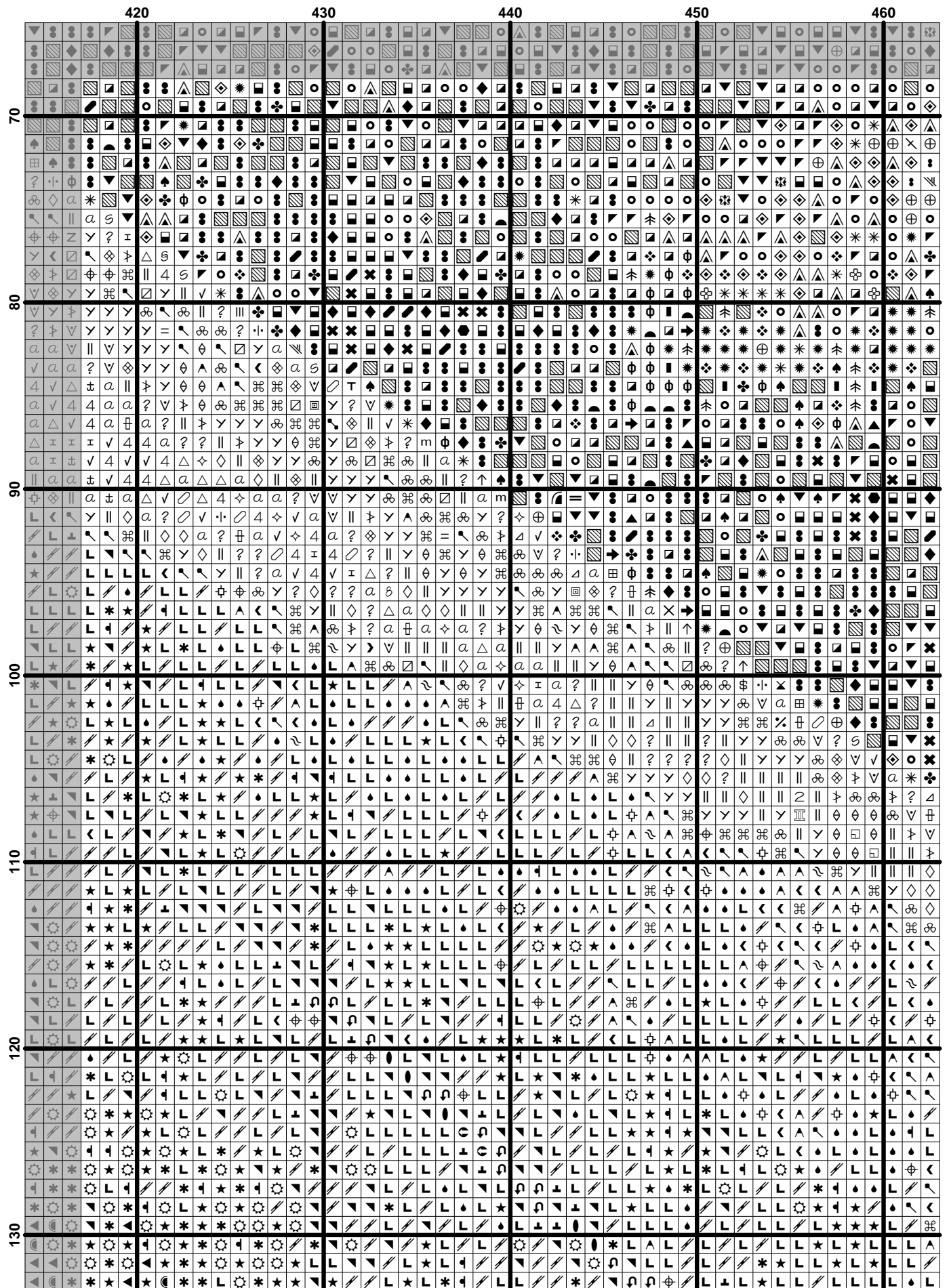


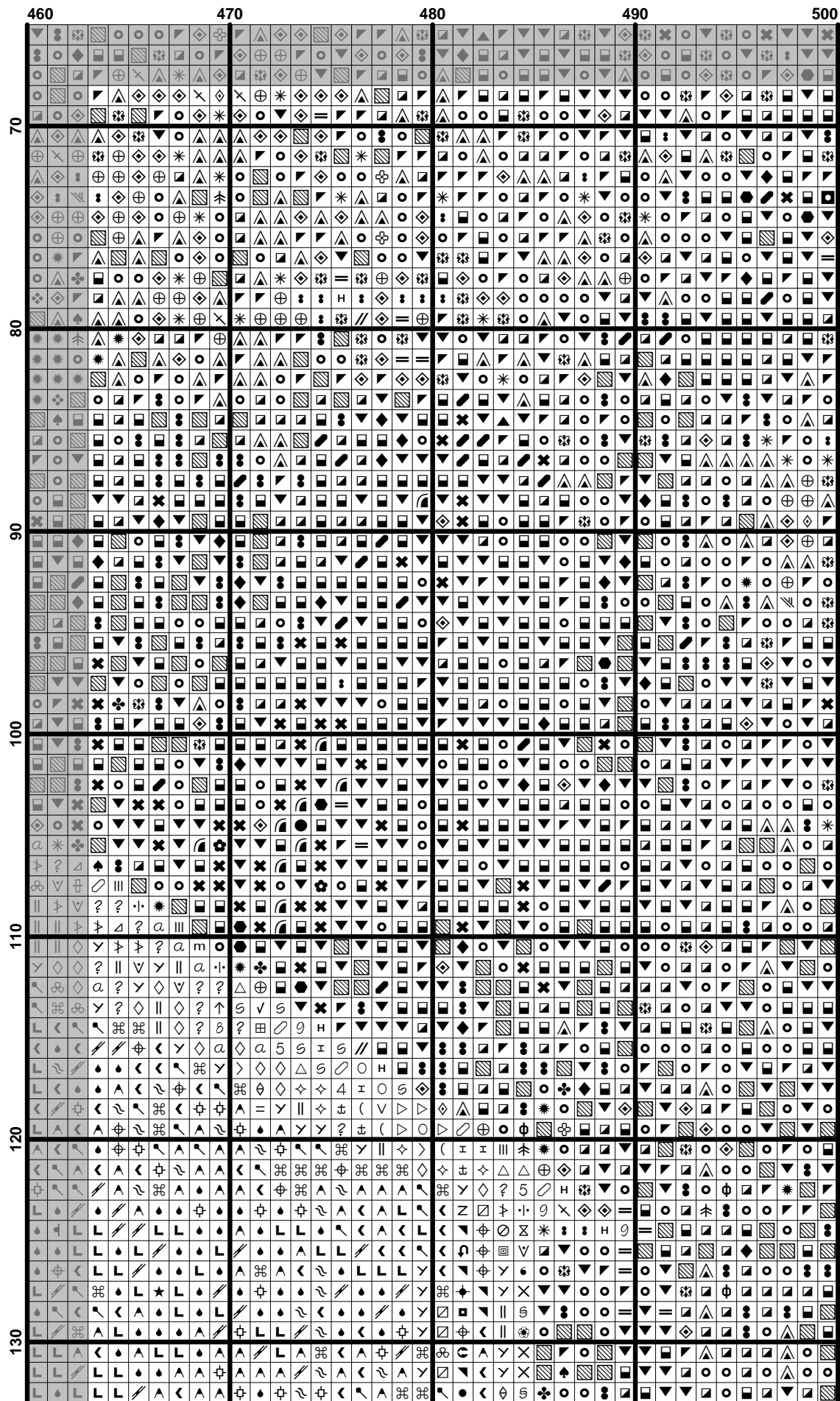
	280	290	300	310	320
70	↑	↑	↑	↑	↑
80	↑	↑	↑	↑	↑
90	↑	↑	↑	↑	↑
100	↑	↑	↑	↑	↑
110	↑	↑	↑	↑	↑
120	↑	↑	↑	↑	↑
130	↑	↑	↑	↑	↑











[illegible]

$$(35) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

$$(36) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

$$(37) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$



130	230	240	250	260	270
140					
150					
160					
170					
180					
190					

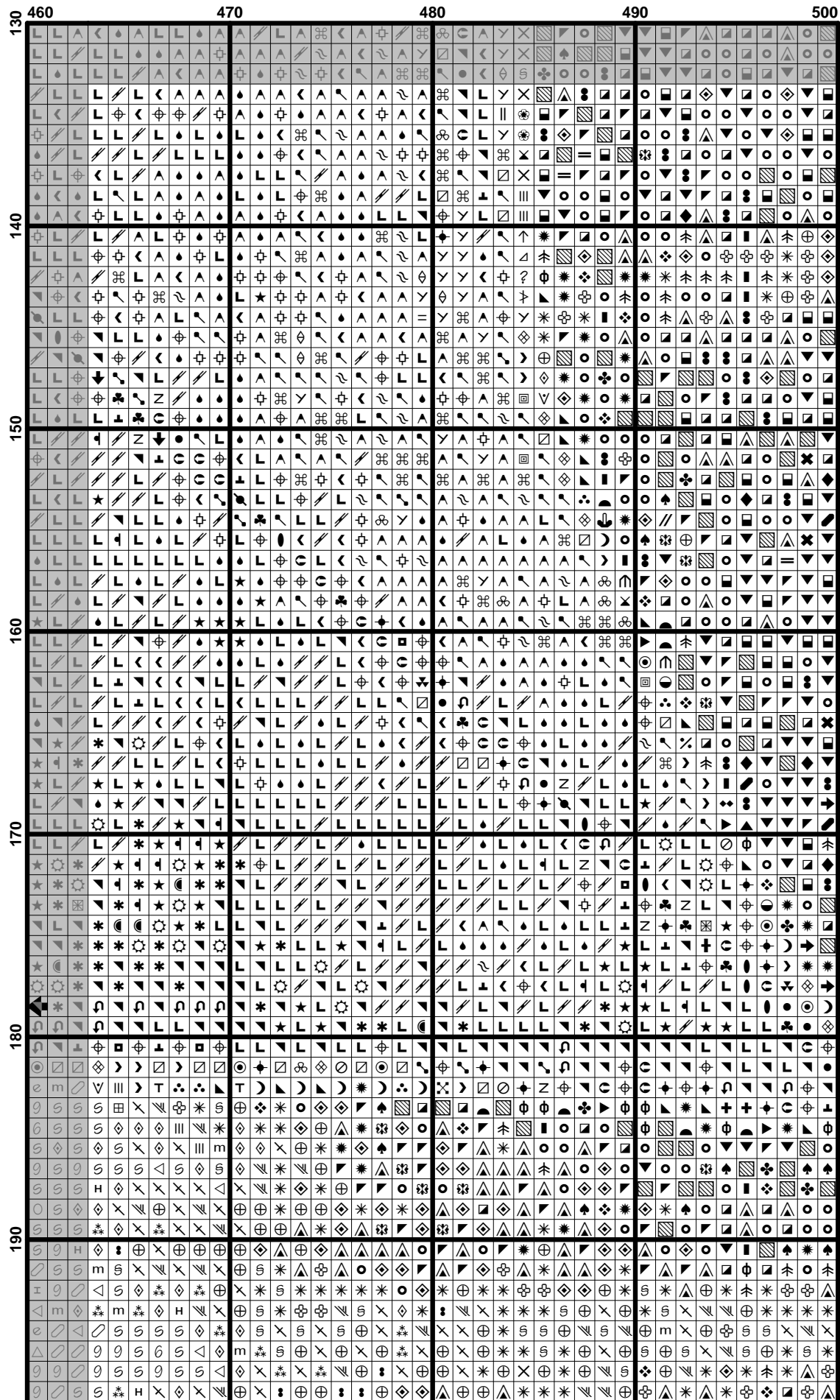


[illegible]



$$(42) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

[illegible]



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	50	60	70	80	90
200	...	...	...	...	...
210	...	...	...	...	...
220	...	...	...	...	...
230	...	...	...	...	...
240	...	...	...	...	...
250	...	...	...	...	...
260	...	...	...	...	...

[illegible]



[illegible]

[illegible]

	230	240	250	260	270
200	T > ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ ㏀ ㏁ ㏂ ㏃ ㏄ ㏅ ㏆ ㏇ ㏈ ㏉ ㏊ ㏋ ㏌ ㏍ ㏎ ㏏ ㏐ ㏑ ㏒ ㏓ ㏔ ㏕ ㏖ ㏗ ㏘ ㏙ ㏚ ㏛ ㏜ ㏝ ㏞ ㏟ ㏠ ㏡ ㏢ ㏣ ㏤ ㏥ ㏦ ㏧ ㏨ ㏩ ㏪ ㏫ ㏬ ㏭ ㏮ ㏯ ㏰ ㏱ ㏲ ㏳ ㏴ ㏵ ㏶ ㏷ ㏸ ㏹ ㏺ ㏻ ㏼ ㏽ ㏾ ㏿ 㐀 㐁 㐂 㐃 㐄 㐅 㐆 㐇 㐈 㐉 㐊 㐋 㐌 㐍 㐎 㐏 㐐 㐑 㐒 㐓 㐔 㐕 㐖 㐗 㐘 㐙 㐚 㐛 㐜 㐝 㐞 㐟 㐠 㐡 㐢 㐣 㐤 㐥 㐦 㐧 㐨 㐩 㐪 㐫 㐬 㐭 㐮 㐯 㐰 㐱 㐲 㐳 㐴 㐵 㐶 㐷 㐸 㐹 㐺 㐻 㐼 㐽 㐾 㐿 㑀 㑁 㑂 㑃 㑄 㑅 㑆 㑇 㑈 㑉 㑊 㑋 㑌 㑍 㑎 㑏 㑐 㑑 㑒 㑓 㑔 㑕 㑖 㑗 㑘 㑙 㑚 㑛 㑜 㑝 㑞 㑟 㑠 㑡 㑢 㑣 㑤 㑥 㑦 㑧 㑨 㑩 㑪 㑫 㑬 㑭 㑮 㑯 㑰 㑱 㑲 㑳 㑴 㑵 㑶 㑷 㑸 㑹 㑺 㑻 㑼 㑽 㑾 㑿 㒀 㒁 㒂 㒃 㒄 㒅 㒆 㒇 㒈 㒉 㒊 㒋 㒌 㒍 㒎 㒏 㒐 㒑 㒒 㒓 㒔 㒕 㒖 㒗 㒘 㒙 㒚 㒛 㒜 㒝 㒞 㒟 㒠 㒡 㒢 㒣 㒤 㒥 㒦 㒧 㒨 㒩 㒪 㒫 㒬 㒭 㒮 㒯 㒰 㒱 㒲 㒳 㒴 㒵 㒶 㒷 㒸 㒹 㒺 㒻 㒼 㒽 㒾 㒿 㓀 㓁 㓂 㓃 㓄 㓅 㓆 㓇 㓈 㓉 㓊 㓋 㓌 㓍 㓎 㓏 㓐 㓑 㓒 㓓 㓔 㓕 㓖 㓗 㓘 㓙 㓚 㓛 㓜 㓝 㓞 㓟 㓠 㓡 㓢 㓣 㓤 㓥 㓦 㓧 㓨 㓩 㓪 㓫 㓬 㓭 㓮 㓯 㓰 㓱 㓲 㓳 㓴 㓵 㓶 㓷 㓸 㓹 㓺 㓻 㓼 㓽 㓾 㓿 㔀 㔁 㔂 㔃 㔄 㔅 㔆 㔇 㔈 㔉 㔊 㔋 㔌 㔍 㔎 㔏 㔐 㔑 㔒 㔓 㔔 㔕 㔖 㔗 㔘 㔙 㔚 㔛 㔜 㔝 㔞 㔟 㔠 㔡 㔢 㔣 㔤 㔥 㔦 㔧 㔨 㔩 㔪 㔫 㔬 㔭 㔮 㔯 㔰 㔱 㔲 㔳 㔴 㔵 㔶 㔷 㔸 㔹 㔺 㔻 㔼 㔽 㔾 㔿 㕀 㕁 㕂 㕃 㕄 㕅 㕆 㕇 㕈 㕉 㕊 㕋 㕌 㕍 㕎 㕏 㕐 㕑 㕒 㕓 㕔 㕕 㕖 㕗 㕘 㕙 㕚 㕛 㕜 㕝 㕞 㕟 㕠 㕡 㕢 㕣 㕤 㕥 㕦 㕧 㕨 㕩 㕪 㕫 㕬 㕭 㕮 㕯 㕰 㕱 㕲 㕳 㕴 㕵 㕶 㕷 㕸 㕹 㕺 㕻 㕼 㕽 㕾 㕿 㖀 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	280	290	300	310	320
200	2	2	2	2	2
201	2	2	2	2	2
202	2	2	2	2	2
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254	2	2	2	2	2
255	2	2	2	2	2
256	2	2	2	2	2
257	2	2	2	2	2
258	2	2	2	2	2
259	2	2	2	2	2
260	2	2	2	2	2

$$(52) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

[illegible]

[illegible]

(55)







	100	110	120	130	140
260	8 5 ↑ III ∴ ∴ + ✕	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴
270	9 5 5 5 5 3 3	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴
280	9 5 5 5 5 3 3	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴
290	9 5 5 5 5 3 3	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴
300	9 5 5 5 5 3 3	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴
310	9 5 5 5 5 3 3	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴
320	9 5 5 5 5 3 3	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴	4 4 4 3 ↑ - 4 □ ∴ ∴

	140	150	160	170	180
260	...	...	...	...	...
270	...	...	...	...	...
280	...	...	...	...	...
290	...	...	...	...	...
300	...	...	...	...	...
310	...	...	...	...	...
320	...	...	...	...	...

[illegible]

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

	280	290	300	310	320
260	2	3	4	5	6
270	7	8	9	10	11
280	12	13	14	15	16
290	17	18	19	20	21
300	22	23	24	25	26
310	27	28	29	30	31
320	32	33	34	35	36
330	37	38	39	40	41
340	42	43	44	45	46
350	47	48	49	50	51
360	52	53	54	55	56
370	57	58	59	60	61
380	62	63	64	65	66
390	67	68	69	70	71
400	72	73	74	75	76
410	77	78	79	80	81
420	82	83	84	85	86
430	87	88	89	90	91
440	92	93	94	95	96
450	97	98	99	100	101
460	102	103	104	105	106
470	107	108	109	110	111
480	112	113	114	115	116
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500	122	123	124	125	126
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700	222	223	224	225	226
710	227	228	229	230	231
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750	247	248	249	250	251
760	252	253	254	255	256
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790	267	268	269	270	271
800	272	273	274	275	276
810	277	278	279	280	281
820	282	283	284	285	286
830	287	288	289	290	291
840	292	293	294	295	296
850	297	298	299	300	301
860	302	303	304	305	306
870	307	308	309	310	311
880	312	313	314	315	316
890	317	318	319	320	321
900	322	323	324	325	326
910	327	328	329	330	331
920	332	333	334	335	336
930	337	338	339	340	341
940	342	343	344	345	346
950	347	348	349	350	351
960	352	353	354	355	356
970	357	358	359	360	361
980	362	363	364	365	366
990	367	368	369	370	371
1000	372	373	374	375	376





	370	380	390	400	410
260	...	...	...	...	...
270	...	...	...	...	...
280	...	...	...	...	...
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300	...	...	...	...	...
310	...	...	...	...	...
320	...	...	...	...	...

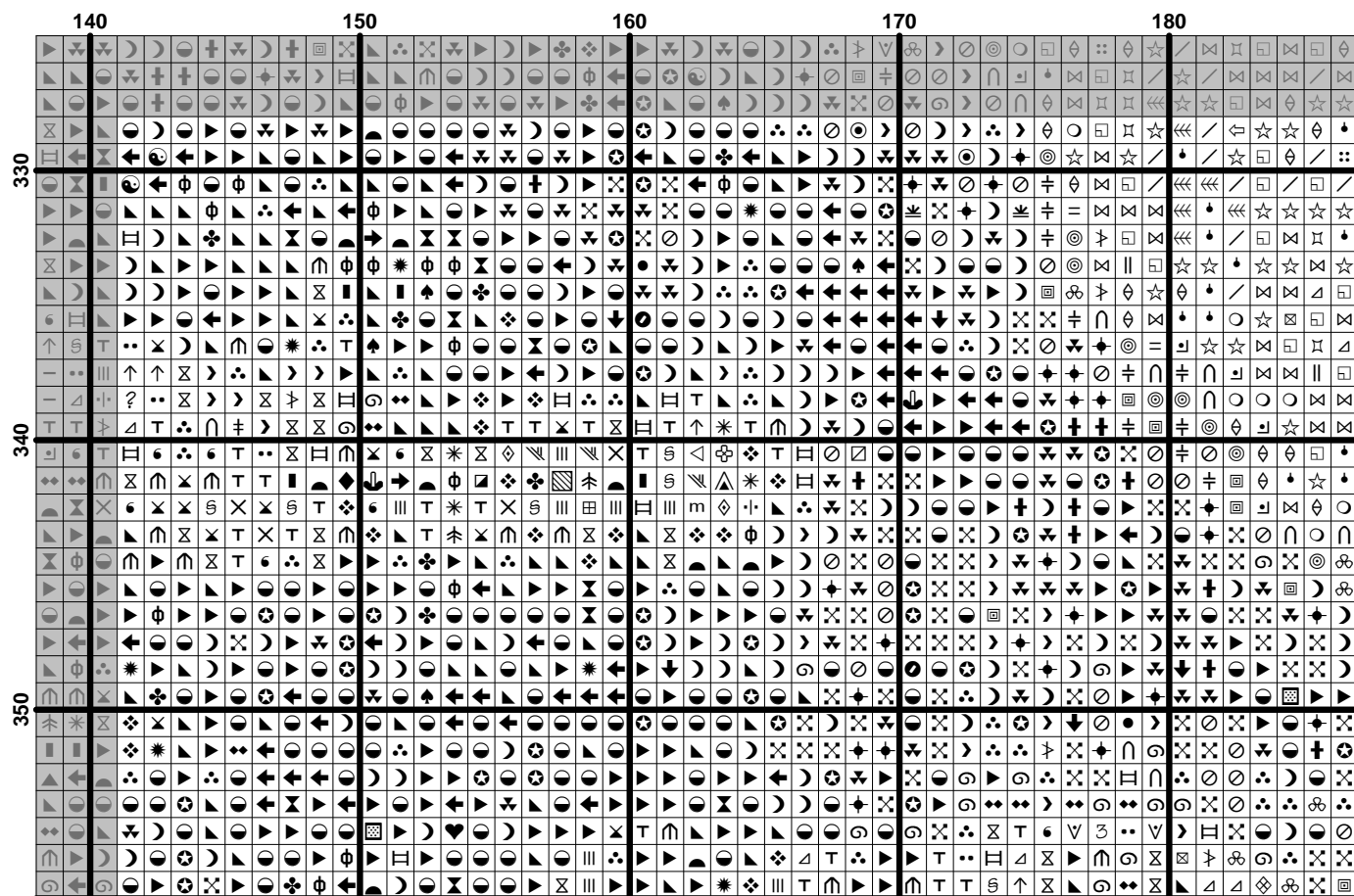
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260					
270					
280					
290					
300					
310					
320					

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