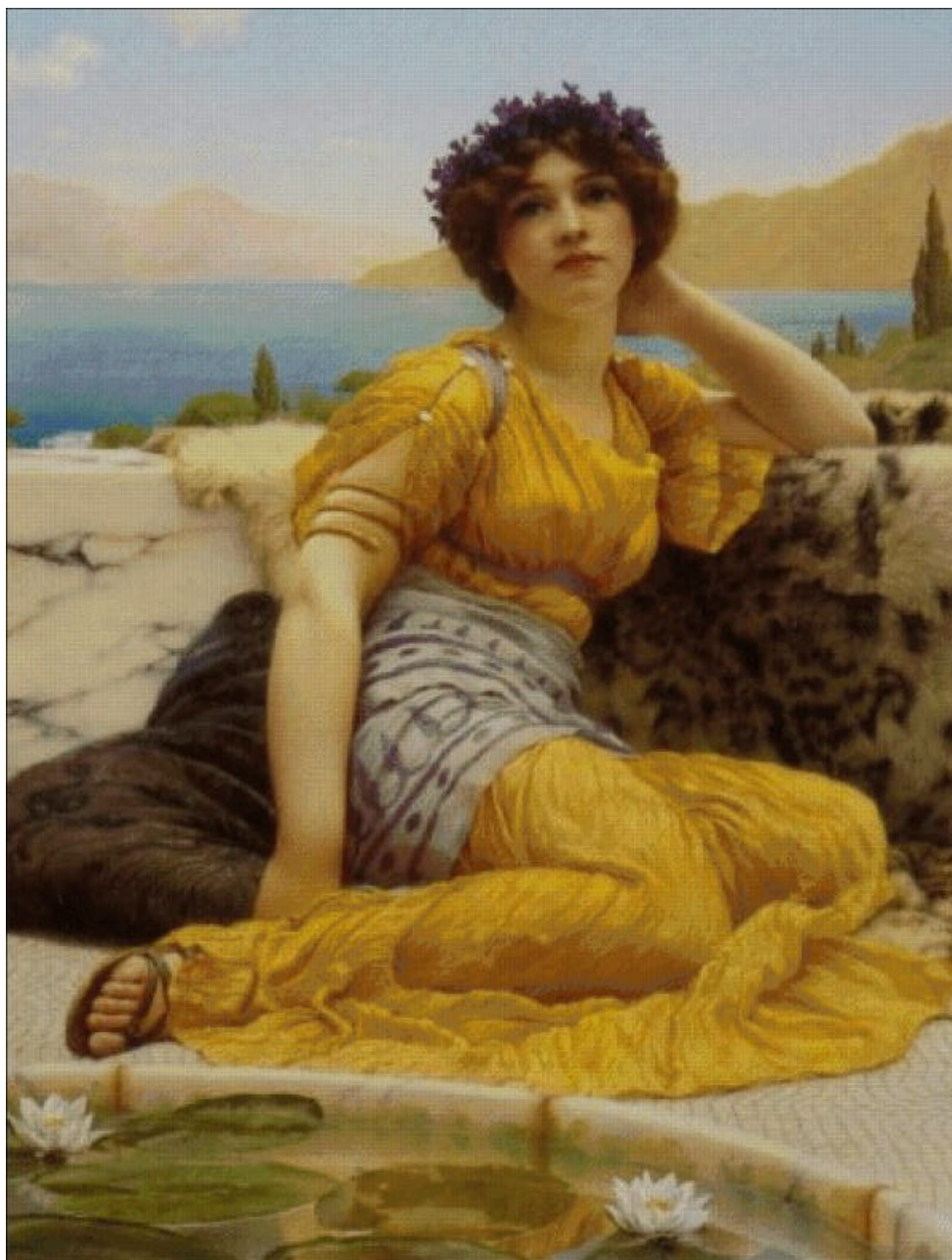


## 545 Robe of Saffron Hue



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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.

It is easiest to start in the center of the design. 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 thread 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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## Robe of Saffron Hue

Stitch Count	
Horizontal:	398
Vertical:	524

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:	72	28.28	95	37.28	63	24.75	83	32.62	56	22	74	29
Including Margins:	88	35	111	44	79	31	99	39	72	29	90	36
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	100	39.59	133	52.19	84	32.99	110	43.49	42	16.49	55	21.74
Including Margins:	116	46	149	59	100	39	126	50	58	23	71	28
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	40	15.83	53	20.87	38	15.22	51	20.07	37	14.66	49	19.33
Including Margins:	56	22	69	27	54	22	67	27	53	21	65	26
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	36	14.14	47	18.64	33	13.19	44	17.39	31	12.37	41	16.31
Including Margins:	52	21	63	25	49	20	60	24	47	19	57	23

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
✠	301	Mahogany-MD
3	307	Lemon
✠	370	Mustard-MD
✠	400	Mahogany-DK
5	420	Hazelnut Brown-DK
✠	422	Hazelnut Brown-LT
✠	433	Brown-MD
✠	434	Brown-LT
✠	435	Brown-VY LT
⇨	436	Tan
≡	444	Lemon-DK
■	451	Shell Gray-DK
✠	470	Avocado Green-LT
✠	504	Blue Green-LT
✠	522	Fern Green
✠	524	Fern Green-VY LT
♣	535	Ash Gray-VY LT
✠	543	Beige Brown-UL VY LT
✠	581	Moss Green
m	598	Turquoise-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
✠	647	Beaver Gray-MD
c	677	Old Gold-VY LT
☐	680	Old Gold-DK
L	712	Cream
9	725	Topaz
6	726	Topaz-LT
III	729	Old Gold-MD
➔	730	Olive Green-VY DK
✠	731	Olive Green-DK
☐	738	Tan-VY LT
♂	739	Tan-UL VY LT
✠	742	Tangerine-LT
«	746	Off White
)	747	Sky Blue-VY LT
/	762	Pearl Gray-VY LT
e	775	Baby Blue-VY LT
✠	780	Topaz-UL VY DK
✠	781	Topaz-VY DK
o	782	Topaz-DK
✠	783	Topaz-MD
♂	806	Peacock Blue-DK
:	819	Baby Pink-LT

+	822	Beige Gray-LT
♂	831	Golden Olive-MD
L	833	Golden Olive-LT
✠	838	Beige Brown-VY DK
✠	839	Beige Brown-DK
4	842	Beige Brown-VY LT
✠	927	Gray Green-LT
✠	932	Antique Blue-LT
8	938	Coffee Brown-UL DK
-	948	Peach-VY LT
	972	Canary-DK
✓	973	Canary-BRT
↑	975	Golden Brown-DK
♦♦	976	Golden Brown-MD
☉	3012	Khaki Green-MD
♥	3021	Brown Gray-VY DK
≡	3022	Brown Gray-MD
○	3024	Brown Gray-VY LT
●	3031	Mocha Brown-VY DK
☉	3032	Mocha Brown-MD
☉	3041	Antique Violet-MD
≡	3045	Yellow Beige-DK
↓	3046	Yellow Beige-MD
::	3047	Yellow Beige-LT
III	3051	Green Gray-DK
∞	3072	Beaver Gray-VY LT
^	3078	Golden Yellow-VY LT
▲	3346	Hunter Green
■	3371	Black Brown
⋮	3740	Antique Violet-DK
⋮	3753	Antique Blue-UL VY LT
(	3756	Baby Blue-UL VY LT
1	3770	Tawny-VY LT
✠	3781	Mocha Brown-DK
●	3799	Pewter Gray-VY DK
☐	3810	Turquoise-DK
✓	3820	Straw-DK
☐	3826	Golden Brown
☐	3827	Golden Brown-Pale
↑	3828	Hazelnut Brown
♠	3829	Old Gold-VY DK
☐	3848	Teal Green-MD
☐	3849	Teal Green-LT
♠	3852	Straw-VY DK
✓	3855	Autumn Gold-LT
☐	3860	Cocoa
▼	3862	Mocha Beige-DK
☐	3864	Mocha Beige-LT
•	3865	Winter White
↓	Ecu	Ecu

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

Symbol	DMC1	Name1	DMC2	Name2
u	762	Pearl Gray-VY LT	3756	Baby Blue-UL VY LT
τ	3774	Desert Sand-VY LT	950	Desert Sand-LT
>	3072	Beaver Gray-VY LT	948	Peach-VY LT
+	3862	Mocha Beige-DK	632	Desert Sand-UL VY DK
←	839	Beige Brown-DK	610	Drab Brown-DK
=	3761	Sky Blue-LT	747	Sky Blue-VY LT
☼	898	Coffee Brown-VY DK	3857	Rosewood-DK
★	3852	Straw-VY DK	782	Topaz-DK
◎	782	Topaz-DK	780	Topaz-UL VY DK
⊕	436	Tan	435	Brown-VY LT
5	3046	Yellow Beige-MD	422	Hazelnut Brown-LT
//	932	Antique Blue-LT	598	Turquoise-LT
❖	3849	Teal Green-LT	3810	Turquoise-DK
↑	3024	Brown Gray-VY LT	598	Turquoise-LT
✓	504	Blue Green-LT	598	Turquoise-LT
⊙	470	Avocado Green-LT	370	Mustard-MD
+	611	Drab Brown	370	Mustard-MD
↔	833	Golden Olive-LT	370	Mustard-MD
❖	3740	Antique Violet-DK	3041	Antique Violet-MD
↓	3740	Antique Violet-DK	3799	Pewter Gray-VY DK
⊙	838	Beige Brown-VY DK	3781	Mocha Brown-DK
▨	838	Beige Brown-VY DK	975	Golden Brown-DK
¼	422	Hazelnut Brown-LT	436	Tan
2	3855	Autumn Gold-LT	738	Tan-VY LT
✕	435	Brown-VY LT	3828	Hazelnut Brown
⊕	680	Old Gold-DK	783	Topaz-MD
▲	435	Brown-VY LT	632	Desert Sand-UL VY DK
✕	400	Mahogany-DK	301	Mahogany-MD
►	435	Brown-VY LT	420	Hazelnut Brown-DK
0	972	Canary-DK	973	Canary-BRT
z	3852	Straw-VY DK	972	Canary-DK
*	3852	Straw-VY DK	976	Golden Brown-MD
⌈	782	Topaz-DK	976	Golden Brown-MD
♣	3860	Cocoa	839	Beige Brown-DK
■	938	Coffee Brown-UL DK	3371	Black Brown
5	739	Tan-UL VY LT	613	Drab Brown-VY LT
*	831	Golden Olive-MD	3829	Old Gold-VY DK
✿	831	Golden Olive-MD	434	Brown-LT
†	730	Olive Green-VY DK	731	Olive Green-DK
⌈	3781	Mocha Brown-DK	730	Olive Green-VY DK
☞	581	Moss Green	731	Olive Green-DK
◁	422	Hazelnut Brown-LT	729	Old Gold-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	
301	Mahogany-MD	41	16	39	15	35	13
307	Lemon	156	61	148	58	133	52
370	Mustard-MD	1320	519	1257	494	1132	445
400	Mahogany-DK	70	27	66	25	60	23
420	Hazelnut Brown-DK	298	117	284	111	255	100
422	Hazelnut Brown-LT	2049	806	1951	768	1756	691
433	Brown-MD	320	125	305	120	274	107
434	Brown-LT	302	118	288	113	259	101
435	Brown-VY LT	594	233	566	222	509	200
436	Tan	598	235	569	224	512	201
444	Lemon-DK	203	79	193	75	174	68
451	Shell Gray-DK	181	71	172	67	155	61
470	Avocado Green-LT	292	114	278	109	250	98
504	Blue Green-LT	456	179	434	170	390	153
522	Fern Green	129	50	123	48	111	43
524	Fern Green-VY LT	552	217	526	207	473	186
535	Ash Gray-VY LT	105	41	100	39	90	35
543	Beige Brown-UL VY LT	604	237	575	226	517	203
581	Moss Green	148	58	141	55	127	50
598	Turquoise-LT	747	294	712	280	640	251
610	Drab Brown-DK	1151	453	1096	431	986	388
611	Drab Brown	900	354	857	337	772	303
612	Drab Brown-LT	764	300	727	286	655	257
613	Drab Brown-VY LT	1600	629	1524	600	1372	540
632	Desert Sand-UL VY DK	199	78	189	74	170	66
640	Beige Gray-VY DK	359	141	342	134	307	120
647	Beaver Gray-MD	494	194	470	185	423	166
677	Old Gold-VY LT	299	117	285	112	256	100
680	Old Gold-DK	470	185	448	176	403	158
712	Cream	774	304	737	290	664	261
725	Topaz	942	370	897	353	807	317
726	Topaz-LT	129	50	123	48	111	43
729	Old Gold-MD	539	212	514	202	462	181
730	Olive Green-VY DK	622	244	592	233	533	209
731	Olive Green-DK	584	229	556	218	500	196
738	Tan-VY LT	1119	440	1066	419	959	377
739	Tan-UL VY LT	2088	822	1989	783	1790	704
742	Tangerine-LT	347	136	331	130	298	117
746	Off White	22	8	20	7	18	7
747	Sky Blue-VY LT	1172	461	1116	439	1004	395
762	Pearl Gray-VY LT	1545	608	1471	579	1324	521
775	Baby Blue-VY LT	1592	626	1517	597	1365	537
780	Topaz-UL VY DK	602	237	574	225	516	203
781	Topaz-VY DK	628	247	598	235	538	211
782	Topaz-DK	2373	934	2260	889	2034	800
783	Topaz-MD	277	109	264	103	237	93
806	Peacock Blue-DK	19	7	18	7	16	6
819	Baby Pink-LT	11	4	10	3	9	3
822	Beige Gray-LT	511	201	487	191	438	172
831	Golden Olive-MD	584	229	556	218	501	197
833	Golden Olive-LT	497	195	474	186	426	167
838	Beige Brown-VY DK	1053	414	1003	394	902	355
839	Beige Brown-DK	784	308	746	293	672	264



842	Beige Brown-VY LT	424	166	404	159	363	142
898	Coffee Brown-VY DK	104	40	99	38	89	35
927	Gray Green-LT	160	62	153	60	137	53
932	Antique Blue-LT	660	259	629	247	566	222
938	Coffee Brown-UL DK	1284	505	1223	481	1100	433
948	Peach-VY LT	566	222	539	212	485	190
950	Desert Sand-LT	25	9	24	9	22	8
972	Canary-DK	949	373	904	355	813	320
973	Canary-BRT	100	39	95	37	85	33
975	Golden Brown-DK	222	87	211	83	190	74
976	Golden Brown-MD	246	96	234	92	211	83
3012	Khaki Green-MD	438	172	417	164	375	147
3021	Brown Gray-VY DK	587	231	559	220	503	198
3022	Brown Gray-MD	103	40	98	38	88	34
3024	Brown Gray-VY LT	714	281	680	267	612	240
3031	Mocha Brown-VY DK	1130	444	1076	423	968	381
3032	Mocha Brown-MD	439	172	418	164	376	148
3041	Antique Violet-MD	77	30	73	28	66	25
3045	Yellow Beige-DK	536	211	510	200	459	180
3046	Yellow Beige-MD	734	288	699	275	629	247
3047	Yellow Beige-LT	658	259	627	246	564	222
3051	Green Gray-DK	168	66	160	62	144	56
3072	Beaver Gray-VY LT	452	177	430	169	387	152
3078	Golden Yellow-VY LT	95	37	90	35	81	31
3346	Hunter Green	77	30	73	28	66	25
3371	Black Brown	505	198	481	189	433	170
3740	Antique Violet-DK	145	57	138	54	124	48
3753	Antique Blue-UL VY LT	77	30	73	28	66	25
3756	Baby Blue-UL VY LT	2099	826	1999	787	1799	708
3761	Sky Blue-LT	111	43	106	41	95	37
3770	Tawny-VY LT	42	16	40	15	36	14
3774	Desert Sand-VY LT	25	9	24	9	22	8
3781	Mocha Brown-DK	1096	431	1043	410	939	369
3799	Pewter Gray-VY DK	114	44	108	42	97	38
3810	Turquoise-DK	80	31	76	29	69	27
3820	Straw-DK	1825	718	1738	684	1564	615
3826	Golden Brown	24	9	23	9	21	8
3827	Golden Brown-Pale	389	153	370	145	333	131
3828	Hazelnut Brown	283	111	270	106	243	95
3829	Old Gold-VY DK	412	162	392	154	353	138
3848	Teal Green-MD	17	6	16	6	15	5
3849	Teal Green-LT	153	60	146	57	131	51
3852	Straw-VY DK	3467	1364	3302	1300	2971	1169
3855	Autumn Gold-LT	487	191	464	182	418	164
3857	Rosewood-DK	104	40	99	38	89	35
3860	Cocoa	354	139	337	132	303	119
3862	Mocha Beige-DK	483	190	460	181	414	162
3864	Mocha Beige-LT	750	295	715	281	643	253
3865	Winter White	4	1	4	1	4	1
Ecu	Ecu	601	236	573	225	515	202

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
301	Mahogany-MD	63	23	53	20	26	10
307	Lemon	239	94	200	78	100	39

370	Mustard-MD	2038	801	1698	668	849	334
400	Mahogany-DK	108	41	90	35	45	17
420	Hazelnut Brown-DK	459	180	383	150	191	75
422	Hazelnut Brown-LT	3161	1244	2634	1037	1317	518
433	Brown-MD	493	193	411	161	206	80
434	Brown-LT	466	182	389	152	194	76
435	Brown-VY LT	916	360	764	300	382	150
436	Tan	922	362	768	302	384	151
444	Lemon-DK	313	122	261	102	131	51
451	Shell Gray-DK	279	110	233	92	116	46
470	Avocado Green-LT	450	176	375	147	188	74
504	Blue Green-LT	702	275	585	230	293	115
522	Fern Green	200	77	167	65	83	32
524	Fern Green-VY LT	851	335	710	279	355	140
535	Ash Gray-VY LT	162	63	135	53	68	26
543	Beige Brown-UL VY LT	931	365	776	305	388	152
581	Moss Green	229	90	191	75	95	38
598	Turquoise-LT	1152	452	960	377	480	188
610	Drab Brown-DK	1775	698	1479	582	740	291
611	Drab Brown	1390	545	1158	455	579	227
612	Drab Brown-LT	1179	463	983	386	491	193
613	Drab Brown-VY LT	2470	972	2058	810	1029	405
632	Desert Sand-UL VY DK	306	119	255	99	128	50
640	Beige Gray-VY DK	553	216	461	180	230	90
647	Beaver Gray-MD	761	299	635	249	317	125
677	Old Gold-VY LT	461	180	384	150	192	75
680	Old Gold-DK	725	284	605	237	302	119
712	Cream	1195	470	996	392	498	196
725	Topaz	1453	571	1211	476	605	238
726	Topaz-LT	200	77	167	65	83	32
729	Old Gold-MD	832	326	693	272	347	136
730	Olive Green-VY DK	959	376	800	314	400	157
731	Olive Green-DK	900	353	750	294	375	147
738	Tan-VY LT	1726	679	1439	566	719	283
739	Tan-UL VY LT	3222	1267	2685	1056	1343	528
742	Tangerine-LT	536	211	447	176	224	88
746	Off White	32	13	27	11	14	5
747	Sky Blue-VY LT	1807	711	1506	593	753	296
762	Pearl Gray-VY LT	2383	938	1986	782	993	391
775	Baby Blue-VY LT	2457	967	2048	806	1024	403
780	Topaz-UL VY DK	929	365	774	305	387	152
781	Topaz-VY DK	968	380	807	317	404	158
782	Topaz-DK	3661	1440	3051	1200	1526	600
783	Topaz-MD	427	167	356	140	178	70
806	Peacock Blue-DK	29	11	24	9	12	5
819	Baby Pink-LT	16	5	14	5	7	2
822	Beige Gray-LT	788	310	657	258	329	129
831	Golden Olive-MD	902	355	752	296	376	148
833	Golden Olive-LT	767	301	639	251	320	125
838	Beige Brown-VY DK	1624	639	1353	533	677	266
839	Beige Brown-DK	1210	475	1008	396	504	198
842	Beige Brown-VY LT	653	256	545	213	272	107
898	Coffee Brown-VY DK	160	63	134	53	67	26
927	Gray Green-LT	247	95	206	80	103	40
932	Antique Blue-LT	1019	400	849	333	425	167
938	Coffee Brown-UL DK	1980	779	1650	650	825	325
948	Peach-VY LT	873	342	728	285	364	143
950	Desert Sand-LT	40	14	33	12	17	6
972	Canary-DK	1463	576	1220	480	610	240

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973	Canary-BRT	153	59	128	50	64	25
975	Golden Brown-DK	342	133	285	111	143	56
976	Golden Brown-MD	380	149	317	125	158	62
3012	Khaki Green-MD	675	265	563	221	281	110
3021	Brown Gray-VY DK	905	356	755	297	377	149
3022	Brown Gray-MD	158	61	132	51	66	26
3024	Brown Gray-VY LT	1102	432	918	360	459	180
3031	Mocha Brown-VY DK	1742	686	1452	572	726	286
3032	Mocha Brown-MD	677	266	564	222	282	111
3041	Antique Violet-MD	119	45	99	38	50	19
3045	Yellow Beige-DK	826	324	689	270	344	135
3046	Yellow Beige-MD	1132	445	944	371	472	185
3047	Yellow Beige-LT	1015	400	846	333	423	167
3051	Green Gray-DK	259	101	216	84	108	42
3072	Beaver Gray-VY LT	697	274	581	228	290	114
3078	Golden Yellow-VY LT	146	56	122	47	61	23
3346	Hunter Green	119	45	99	38	50	19
3371	Black Brown	779	306	650	255	325	128
3740	Antique Violet-DK	223	86	186	72	93	36
3753	Antique Blue-UL VY LT	119	45	99	38	50	19
3756	Baby Blue-UL VY LT	3238	1274	2699	1062	1349	531
3761	Sky Blue-LT	171	67	143	56	71	28
3770	Tawny-VY LT	65	25	54	21	27	11
3774	Desert Sand-VY LT	40	14	33	12	17	6
3781	Mocha Brown-DK	1690	664	1409	554	704	277
3799	Pewter Gray-VY DK	175	68	146	57	73	29
3810	Turquoise-DK	124	49	104	41	52	20
3820	Straw-DK	2815	1107	2346	923	1173	461
3826	Golden Brown	38	14	32	12	16	6
3827	Golden Brown-Pale	599	236	500	197	250	98
3828	Hazelnut Brown	437	171	365	143	182	71
3829	Old Gold-VY DK	635	248	530	207	265	104
3848	Teal Green-MD	27	9	23	8	11	4
3849	Teal Green-LT	236	92	197	77	98	38
3852	Straw-VY DK	5348	2104	4457	1754	2228	877
3855	Autumn Gold-LT	752	295	627	246	314	123
3857	Rosewood-DK	160	63	134	53	67	26
3860	Cocoa	545	214	455	179	227	89
3862	Mocha Beige-DK	745	292	621	243	311	122
3864	Mocha Beige-LT	1157	455	965	380	482	190
3865	Winter White	7	2	6	2	3	1
Ecru	Ecru	927	364	773	303	386	152

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
301	Mahogany-MD	25	9	24	9	23	9
307	Lemon	96	37	92	36	89	35
370	Mustard-MD	815	320	784	308	755	297
400	Mahogany-DK	43	17	42	16	40	15
420	Hazelnut Brown-DK	184	72	177	69	170	67
422	Hazelnut Brown-LT	1264	498	1216	478	1171	461
433	Brown-MD	197	77	190	74	183	71
434	Brown-LT	186	73	179	70	173	67
435	Brown-VY LT	366	144	352	138	339	133
436	Tan	369	145	354	139	341	134

444	Lemon-DK	125	49	120	47	116	45
451	Shell Gray-DK	112	44	107	42	103	41
470	Avocado Green-LT	180	71	173	68	167	65
504	Blue Green-LT	281	110	270	106	260	102
522	Fern Green	80	31	77	30	74	29
524	Fern Green-VY LT	341	134	327	129	315	124
535	Ash Gray-VY LT	65	25	62	24	60	23
543	Beige Brown-UL VY LT	372	146	358	141	345	135
581	Moss Green	91	36	88	35	85	33
598	Turquoise-LT	461	181	443	174	427	167
610	Drab Brown-DK	710	279	683	269	657	259
611	Drab Brown	556	218	534	210	515	202
612	Drab Brown-LT	472	185	453	178	437	171
613	Drab Brown-VY LT	988	389	950	374	915	360
632	Desert Sand-UL VY DK	122	48	118	46	113	44
640	Beige Gray-VY DK	221	86	213	83	205	80
647	Beaver Gray-MD	305	120	293	115	282	111
677	Old Gold-VY LT	184	72	177	69	171	67
680	Old Gold-DK	290	114	279	109	269	105
712	Cream	478	188	460	181	443	174
725	Topaz	581	228	559	219	538	211
726	Topaz-LT	80	31	77	30	74	29
729	Old Gold-MD	333	130	320	125	308	121
730	Olive Green-VY DK	384	150	369	145	355	139
731	Olive Green-DK	360	141	346	136	333	131
738	Tan-VY LT	690	271	664	261	639	251
739	Tan-UL VY LT	1289	507	1239	487	1193	469
742	Tangerine-LT	215	84	206	81	199	78
746	Off White	13	5	12	5	12	5
747	Sky Blue-VY LT	723	284	695	273	669	263
762	Pearl Gray-VY LT	953	375	917	361	883	347
775	Baby Blue-VY LT	983	387	945	372	910	358
780	Topaz-UL VY DK	372	146	357	141	344	135
781	Topaz-VY DK	387	152	372	146	359	141
782	Topaz-DK	1464	576	1408	554	1356	533
783	Topaz-MD	171	67	164	64	158	62
806	Peacock Blue-DK	12	4	11	4	11	4
819	Baby Pink-LT	6	2	6	2	6	2
822	Beige Gray-LT	315	124	303	119	292	115
831	Golden Olive-MD	361	142	347	136	334	131
833	Golden Olive-LT	307	120	295	116	284	111
838	Beige Brown-VY DK	649	256	624	246	601	237
839	Beige Brown-DK	484	190	465	183	448	176
842	Beige Brown-VY LT	261	102	251	98	242	95
898	Coffee Brown-VY DK	64	25	62	24	59	23
927	Gray Green-LT	99	38	95	37	91	35
932	Antique Blue-LT	408	160	392	154	377	148
938	Coffee Brown-UL DK	792	312	762	300	733	289
948	Peach-VY LT	349	137	336	132	323	127
950	Desert Sand-LT	16	6	15	6	15	5
972	Canary-DK	585	230	563	222	542	213
973	Canary-BRT	61	24	59	23	57	22
975	Golden Brown-DK	137	53	132	51	127	49
976	Golden Brown-MD	152	60	146	57	141	55
3012	Khaki Green-MD	270	106	260	102	250	98
3021	Brown Gray-VY DK	362	143	348	137	335	132
3022	Brown Gray-MD	63	24	61	24	59	23
3024	Brown Gray-VY LT	441	173	424	166	408	160
3031	Mocha Brown-VY DK	697	274	670	264	645	254

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3032	Mocha Brown-MD	271	107	260	102	251	99
3041	Antique Violet-MD	48	18	46	17	44	17
3045	Yellow Beige-DK	330	130	318	125	306	120
3046	Yellow Beige-MD	453	178	435	171	419	165
3047	Yellow Beige-LT	406	160	390	154	376	148
3051	Green Gray-DK	104	40	100	39	96	37
3072	Beaver Gray-VY LT	279	109	268	105	258	101
3078	Golden Yellow-VY LT	58	22	56	21	54	21
3346	Hunter Green	48	18	46	17	44	17
3371	Black Brown	312	122	300	118	289	113
3740	Antique Violet-DK	89	35	86	33	83	32
3753	Antique Blue-UL VY LT	48	18	46	17	44	17
3756	Baby Blue-UL VY LT	1295	510	1245	490	1199	472
3761	Sky Blue-LT	68	27	66	26	63	25
3770	Tawny-VY LT	26	10	25	10	24	9
3774	Desert Sand-VY LT	16	6	15	6	15	5
3781	Mocha Brown-DK	676	266	650	255	626	246
3799	Pewter Gray-VY DK	70	27	67	26	65	25
3810	Turquoise-DK	50	19	48	19	46	18
3820	Straw-DK	1126	443	1083	426	1043	410
3826	Golden Brown	15	6	15	6	14	5
3827	Golden Brown-Pale	240	94	231	91	222	87
3828	Hazelnut Brown	175	68	168	66	162	63
3829	Old Gold-VY DK	254	99	244	96	235	92
3848	Teal Green-MD	11	4	10	3	10	3
3849	Teal Green-LT	94	37	91	35	87	34
3852	Straw-VY DK	2139	842	2057	809	1981	779
3855	Autumn Gold-LT	301	118	289	114	279	109
3857	Rosewood-DK	64	25	62	24	59	23
3860	Cocoa	218	86	210	82	202	79
3862	Mocha Beige-DK	298	117	287	112	276	108
3864	Mocha Beige-LT	463	182	445	175	429	169
3865	Winter White	3	1	3	1	3	1
Ecu	Ecu	371	145	357	140	343	135

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
301	Mahogany-MD	23	8	21	8	20	7
307	Lemon	86	33	80	31	75	29
370	Mustard-MD	728	286	679	267	637	250
400	Mahogany-DK	39	15	36	14	34	13
420	Hazelnut Brown-DK	164	64	153	60	143	56
422	Hazelnut Brown-LT	1129	444	1054	415	988	389
433	Brown-MD	176	69	164	64	154	60
434	Brown-LT	167	65	155	61	146	57
435	Brown-VY LT	327	129	305	120	286	113
436	Tan	329	129	307	121	288	113
444	Lemon-DK	112	44	104	41	98	38
451	Shell Gray-DK	100	39	93	37	87	34
470	Avocado Green-LT	161	63	150	59	141	55
504	Blue Green-LT	251	98	234	92	219	86
522	Fern Green	71	28	67	26	62	24
524	Fern Green-VY LT	304	120	284	112	266	105
535	Ash Gray-VY LT	58	23	54	21	51	20
543	Beige Brown-UL VY LT	332	131	310	122	291	114
581	Moss Green	82	32	76	30	71	28

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598	Turquoise-LT	411	161	384	151	360	141
610	Drab Brown-DK	634	249	592	233	555	218
611	Drab Brown	496	195	463	182	434	170
612	Drab Brown-LT	421	165	393	154	368	145
613	Drab Brown-VY LT	882	347	823	324	772	304
632	Desert Sand-UL VY DK	109	42	102	40	96	37
640	Beige Gray-VY DK	197	77	184	72	173	68
647	Beaver Gray-MD	272	107	254	100	238	93
677	Old Gold-VY LT	165	64	154	60	144	56
680	Old Gold-DK	259	102	242	95	227	89
712	Cream	427	168	398	157	374	147
725	Topaz	519	204	484	190	454	178
726	Topaz-LT	71	28	67	26	62	24
729	Old Gold-MD	297	116	277	109	260	102
730	Olive Green-VY DK	343	134	320	125	300	118
731	Olive Green-DK	321	126	300	118	281	110
738	Tan-VY LT	617	242	575	226	539	212
739	Tan-UL VY LT	1151	453	1074	422	1007	396
742	Tangerine-LT	192	75	179	70	168	66
746	Off White	12	5	11	4	10	4
747	Sky Blue-VY LT	645	254	602	237	565	222
762	Pearl Gray-VY LT	851	335	794	313	745	293
775	Baby Blue-VY LT	878	345	819	322	768	302
780	Topaz-UL VY DK	332	131	310	122	290	114
781	Topaz-VY DK	346	136	323	127	303	119
782	Topaz-DK	1308	514	1220	480	1144	450
783	Topaz-MD	152	60	142	56	133	52
806	Peacock Blue-DK	10	4	10	4	9	3
819	Baby Pink-LT	6	2	5	2	5	2
822	Beige Gray-LT	282	111	263	103	246	97
831	Golden Olive-MD	322	127	301	118	282	111
833	Golden Olive-LT	274	107	256	100	240	94
838	Beige Brown-VY DK	580	228	541	213	507	200
839	Beige Brown-DK	432	170	403	158	378	149
842	Beige Brown-VY LT	233	91	218	85	204	80
898	Coffee Brown-VY DK	57	23	53	21	50	20
927	Gray Green-LT	88	34	82	32	77	30
932	Antique Blue-LT	364	143	340	133	318	125
938	Coffee Brown-UL DK	707	278	660	260	619	244
948	Peach-VY LT	312	122	291	114	273	107
950	Desert Sand-LT	14	5	13	5	12	5
972	Canary-DK	523	206	488	192	457	180
973	Canary-BRT	55	21	51	20	48	19
975	Golden Brown-DK	122	48	114	44	107	42
976	Golden Brown-MD	136	53	127	50	119	47
3012	Khaki Green-MD	241	95	225	88	211	83
3021	Brown Gray-VY DK	323	127	302	119	283	111
3022	Brown Gray-MD	57	22	53	20	50	19
3024	Brown Gray-VY LT	393	154	367	144	344	135
3031	Mocha Brown-VY DK	622	245	581	229	545	214
3032	Mocha Brown-MD	242	95	226	89	212	83
3041	Antique Violet-MD	42	16	40	15	37	14
3045	Yellow Beige-DK	295	116	275	108	258	101
3046	Yellow Beige-MD	404	159	377	148	354	139
3047	Yellow Beige-LT	363	143	338	133	317	125
3051	Green Gray-DK	93	36	86	34	81	32
3072	Beaver Gray-VY LT	249	98	232	91	218	86
3078	Golden Yellow-VY LT	52	20	49	19	46	17
3346	Hunter Green	42	16	40	15	37	14

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3371	Black Brown	278	109	260	102	244	96
3740	Antique Violet-DK	80	31	74	29	70	27
3753	Antique Blue-UL VY LT	42	16	40	15	37	14
3756	Baby Blue-UL VY LT	1157	455	1079	425	1012	398
3761	Sky Blue-LT	61	24	57	22	53	21
3770	Tawny-VY LT	23	9	22	8	20	8
3774	Desert Sand-VY LT	14	5	13	5	12	5
3781	Mocha Brown-DK	604	237	563	221	528	208
3799	Pewter Gray-VY DK	62	24	58	23	55	21
3810	Turquoise-DK	44	17	41	16	39	15
3820	Straw-DK	1005	395	938	369	880	346
3826	Golden Brown	14	5	13	5	12	5
3827	Golden Brown-Pale	214	84	200	79	187	74
3828	Hazelnut Brown	156	61	146	57	137	53
3829	Old Gold-VY DK	227	89	212	83	199	78
3848	Teal Green-MD	10	3	9	3	8	3
3849	Teal Green-LT	84	33	79	31	74	29
3852	Straw-VY DK	1910	752	1783	701	1671	658
3855	Autumn Gold-LT	269	105	251	98	235	92
3857	Rosewood-DK	57	23	53	21	50	20
3860	Cocoa	195	77	182	71	170	67
3862	Mocha Beige-DK	266	104	248	97	233	91
3864	Mocha Beige-LT	413	163	386	152	362	142
3865	Winter White	3	1	2	1	2	1
Ecru	Ecru	331	130	309	121	290	114

(9) (10)



$$(10) \quad \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

$$(11) \quad \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

$$(12) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (13)$$

[illegible]

$$(14) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

[illegible]



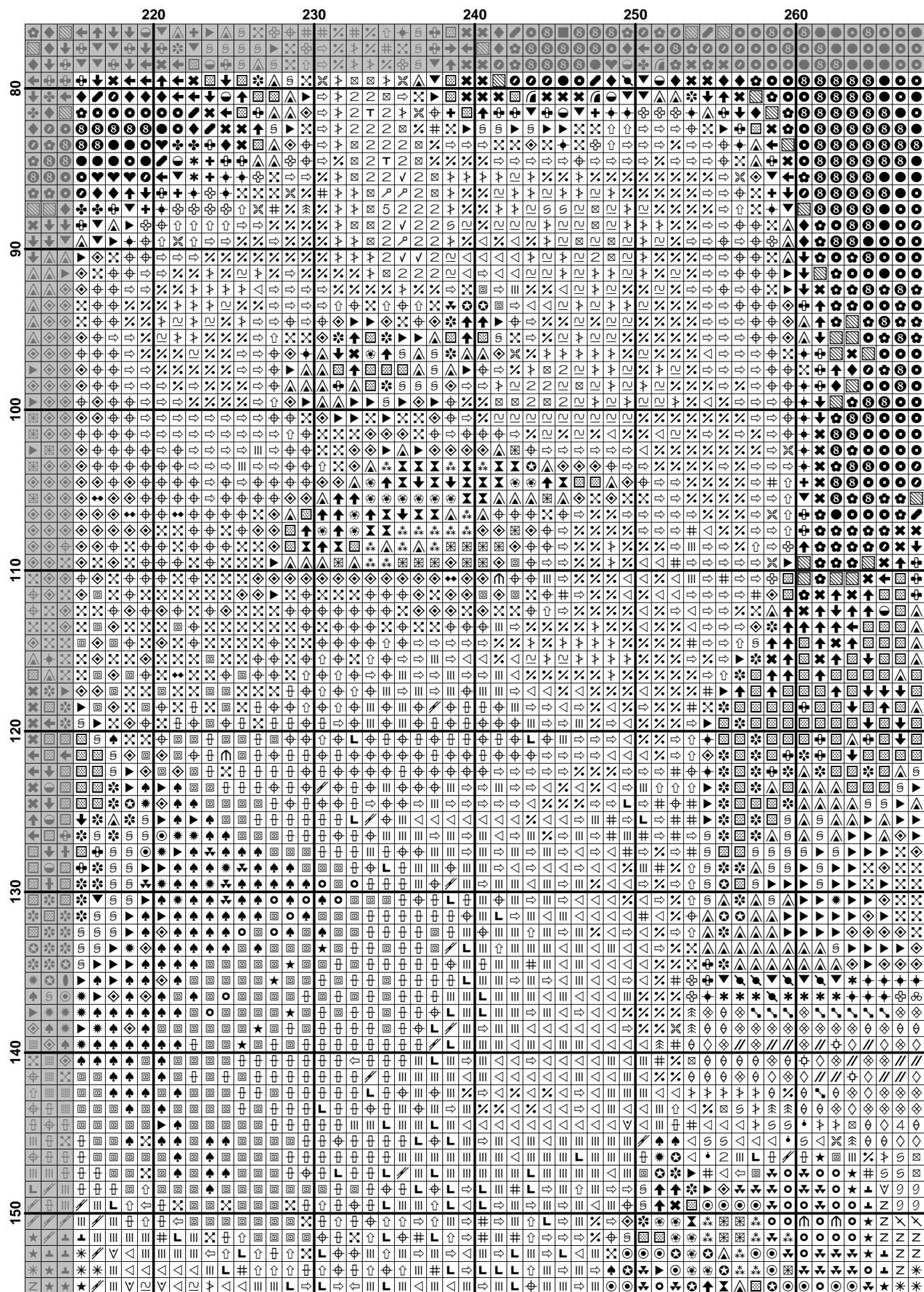
(16)

$$(17) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

[illegible]

	110	120	130	140	150	160
80	L	L	L	L	L	L
81	L	L	L	L	L	L
82	L	L	L	L	L	L
83	L	L	L	L	L	L
84	L	L	L	L	L	L
85	L	L	L	L	L	L
86	L	L	L	L	L	L
87	L	L	L	L	L	L
88	L	L	L	L	L	L
89	L	L	L	L	L	L
90	L	L	L	L	L	L
91	L	L	L	L	L	L
92	L	L	L	L	L	L
93	L	L	L	L	L	L
94	L	L	L	L	L	L
95	L	L	L	L	L	L
96	L	L	L	L	L	L
97	L	L	L	L	L	L
98	L	L	L	L	L	L
99	L	L	L	L	L	L
100	L	L	L	L	L	L
101	L	L	L	L	L	L
102	L	L	L	L	L	L
103	L	L	L	L	L	L
104	L	L	L	L	L	L
105	L	L	L	L	L	L
106	L	L	L	L	L	L
107	L	L	L	L	L	L
108	L	L	L	L	L	L
109	L	L	L	L	L	L
110	L	L	L	L	L	L
111	L	L	L	L	L	L
112	L	L	L	L	L	L
113	L	L	L	L	L	L
114	L	L	L	L	L	L
115	L	L	L	L	L	L
116	L	L	L	L	L	L
117	L	L	L	L	L	L
118	L	L	L	L	L	L
119	L	L	L	L	L	L
120	L	L	L	L	L	L
121	L	L	L	L	L	L
122	L	L	L	L	L	L
123	L	L	L	L	L	L
124	L	L	L	L	L	L
125	L	L	L	L	L	L
126	L	L	L	L	L	L
127	L	L	L	L	L	L
128	L	L	L	L	L	L
129	L	L	L	L	L	L
130	L	L	L	L	L	L
131	L	L	L	L	L	L
132	L	L	L	L	L	L
133	L	L	L	L	L	L
134	L	L	L	L	L	L
135	L	L	L	L	L	L
136	L	L	L	L	L	L
137	L	L	L	L	L	L
138	L	L	L	L	L	L
139	L	L	L	L	L	L
140	L	L	L	L	L	L
141	L	L	L	L	L	L
142	L	L	L	L	L	L
143	L	L	L	L	L	L
144	L	L	L	L	L	L
145	L	L	L	L	L	L
146	L	L	L	L	L	L
147	L	L	L	L	L	L
148	L	L	L	L	L	L
149	L	L	L	L	L	L
150	L	L	L	L	L	L
151	L	L	L	L	L	L
152	L	L	L	L	L	L
153	L	L	L	L	L	L
154	L	L	L	L	L	L
155	L	L	L	L	L	L
156	L	L	L	L	L	L
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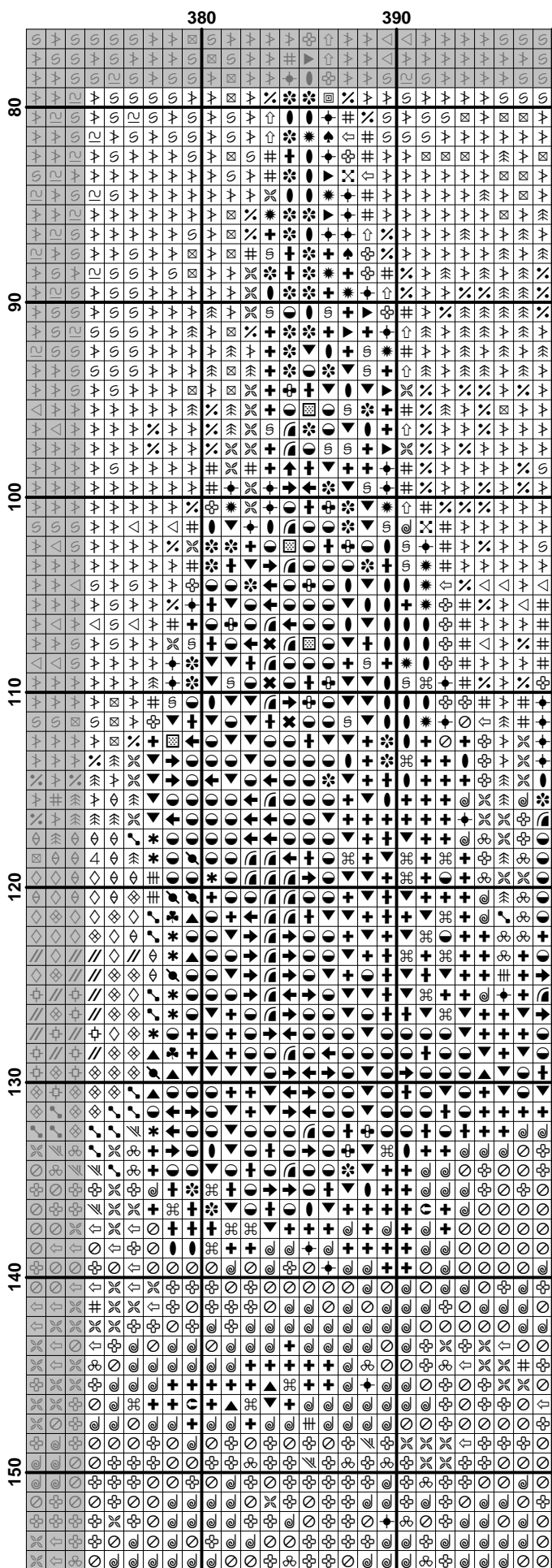
$$(20) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (21)$$





	270	280	290	300	310	320
80	...	...	...	...	...	...
90	...	...	...	...	...	...
100	...	...	...	...	...	...
110	...	...	...	...	...	...
120	...	...	...	...	...	...
130	...	...	...	...	...	...
140	...	...	...	...	...	...
150	...	...	...	...	...	...

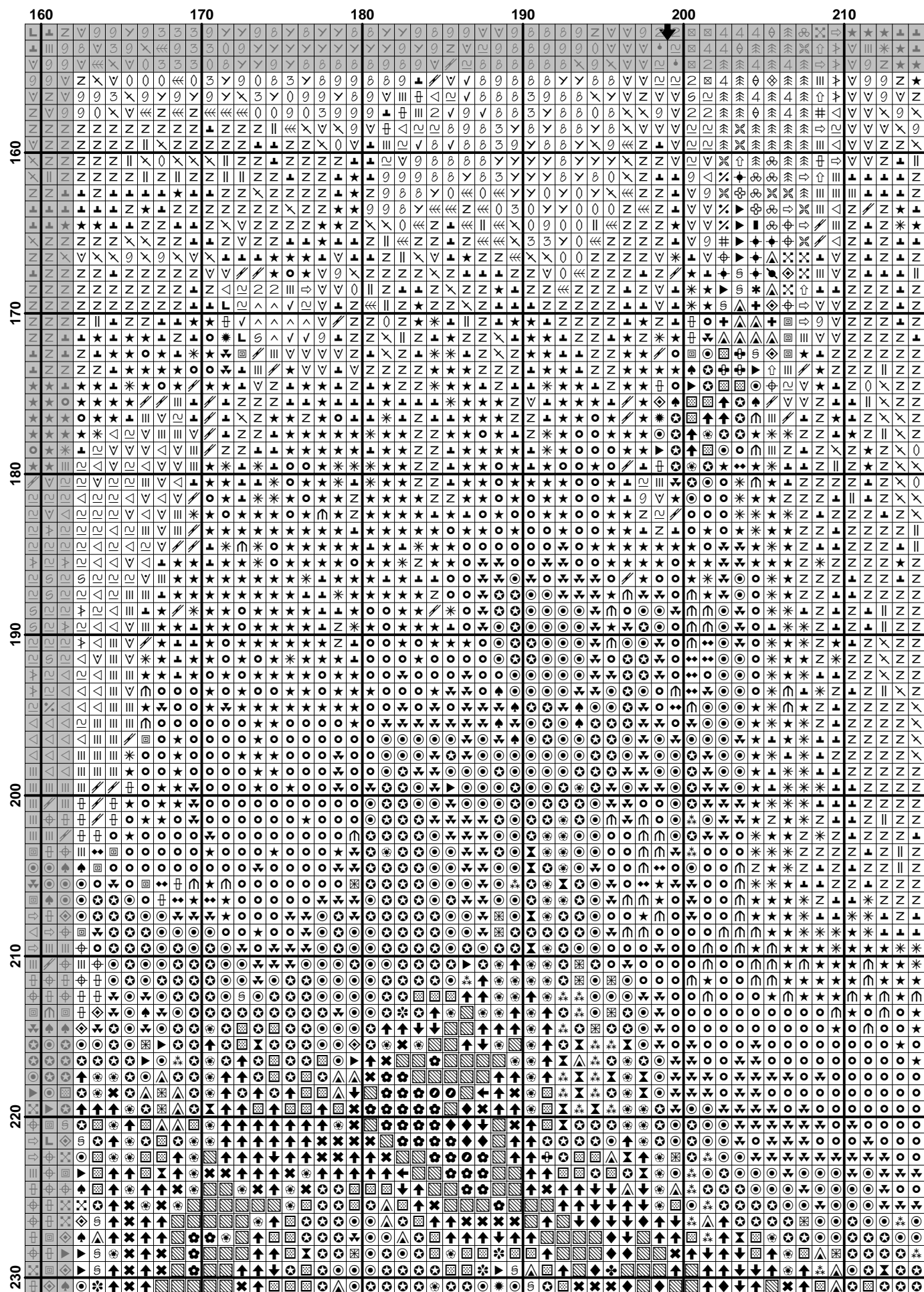
$$(23) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (24)$$



(26)

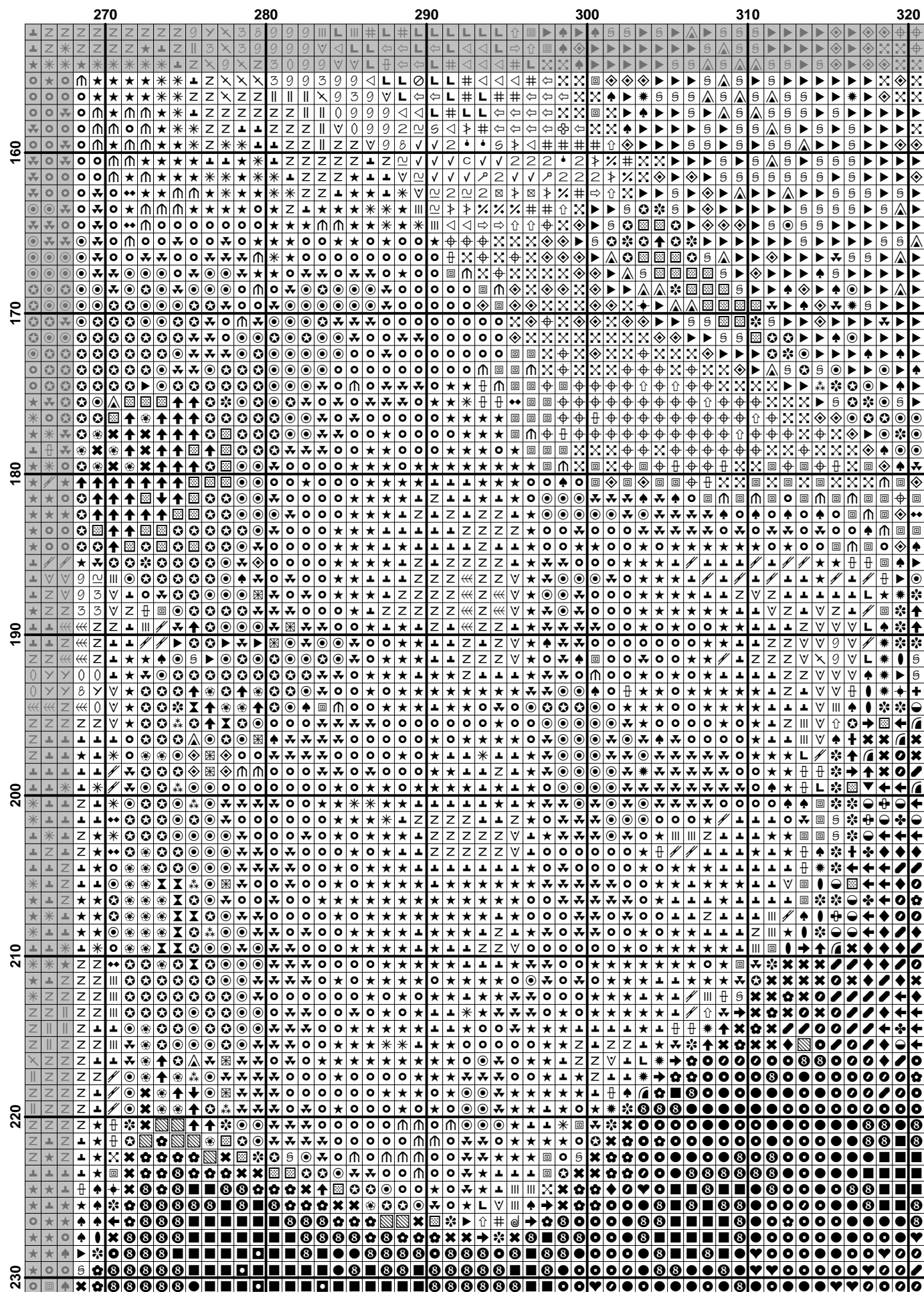
$$(26) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (27)$$

$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$



[illegible]





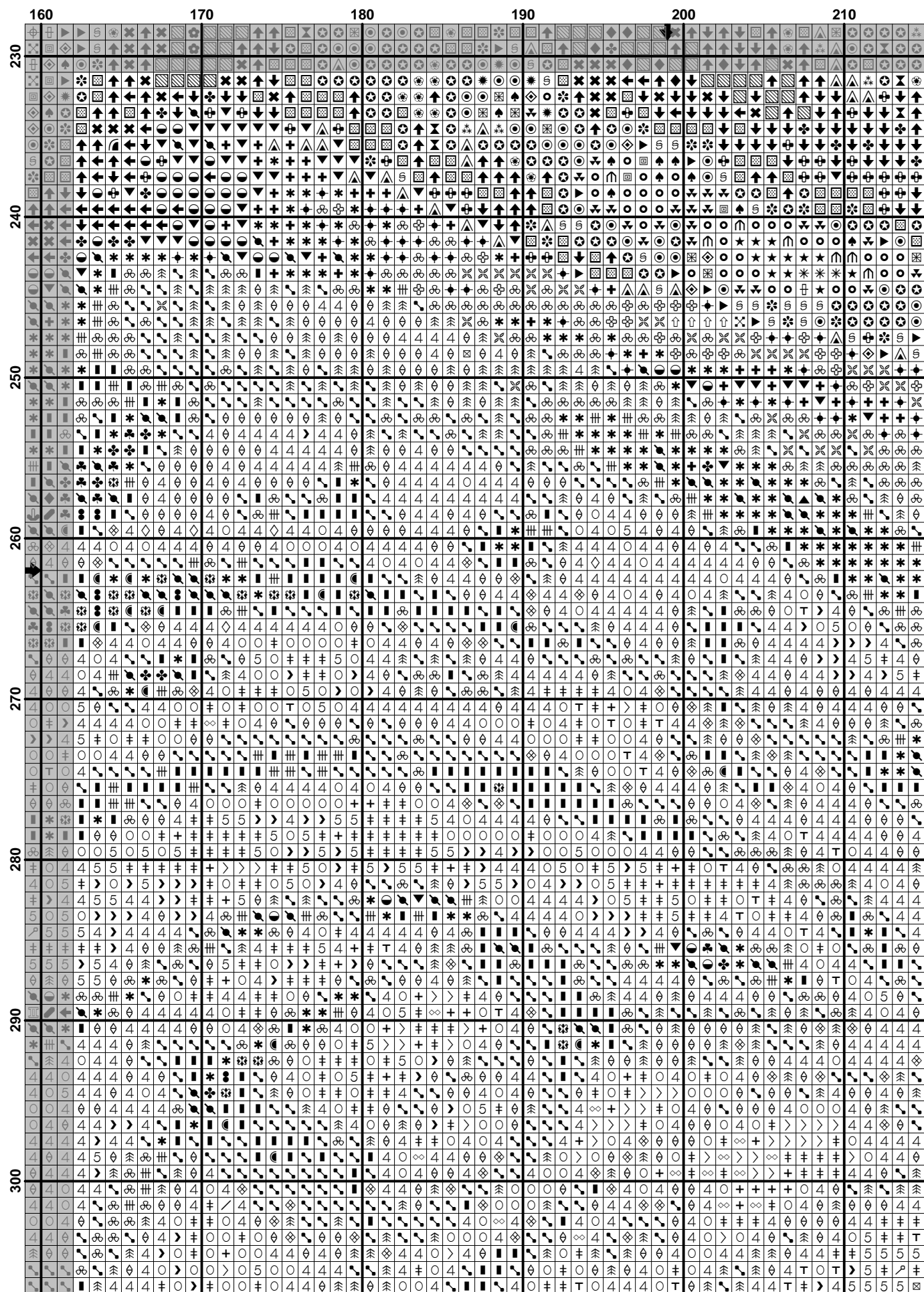


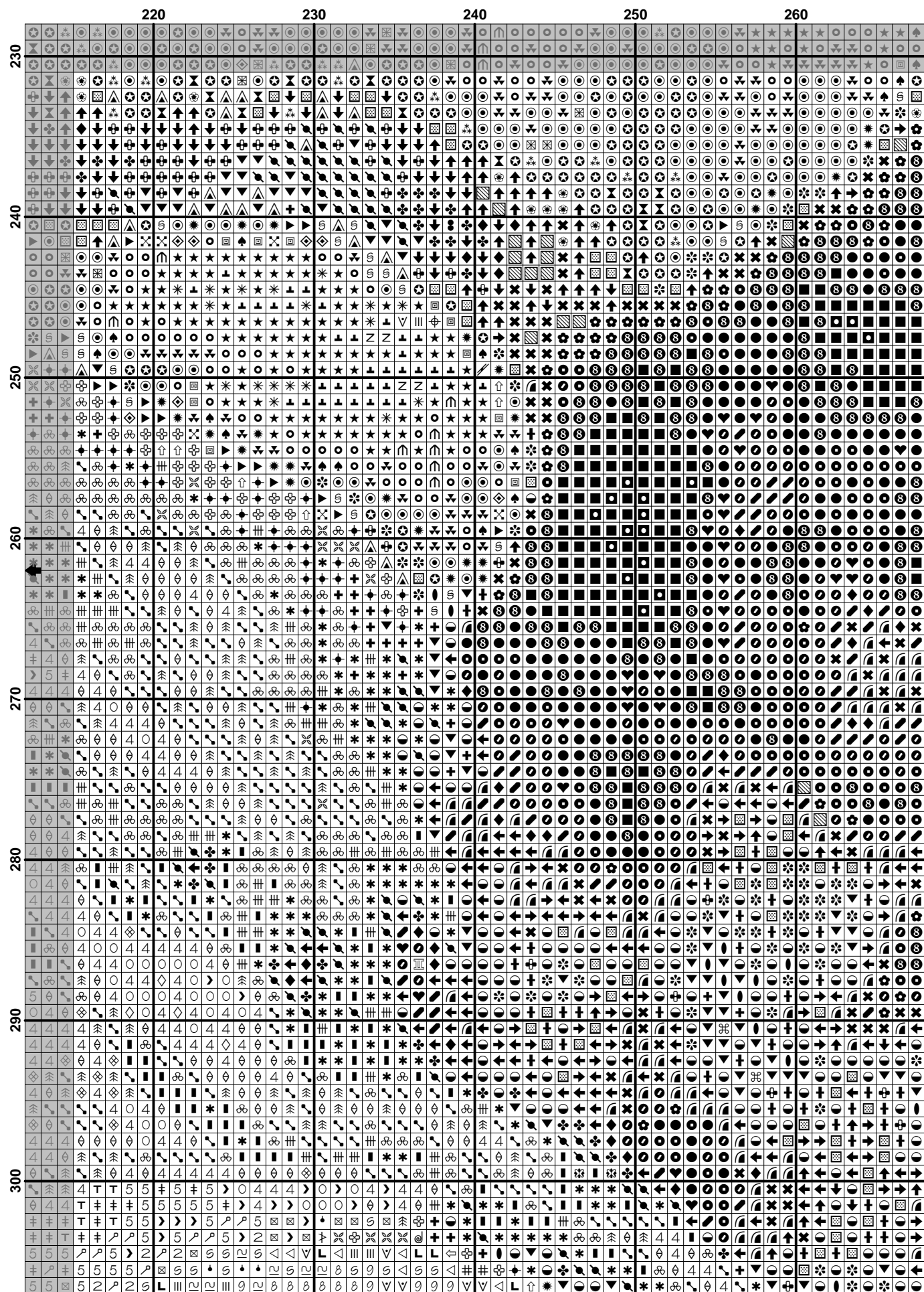
(32)

$$(33) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (34)$$

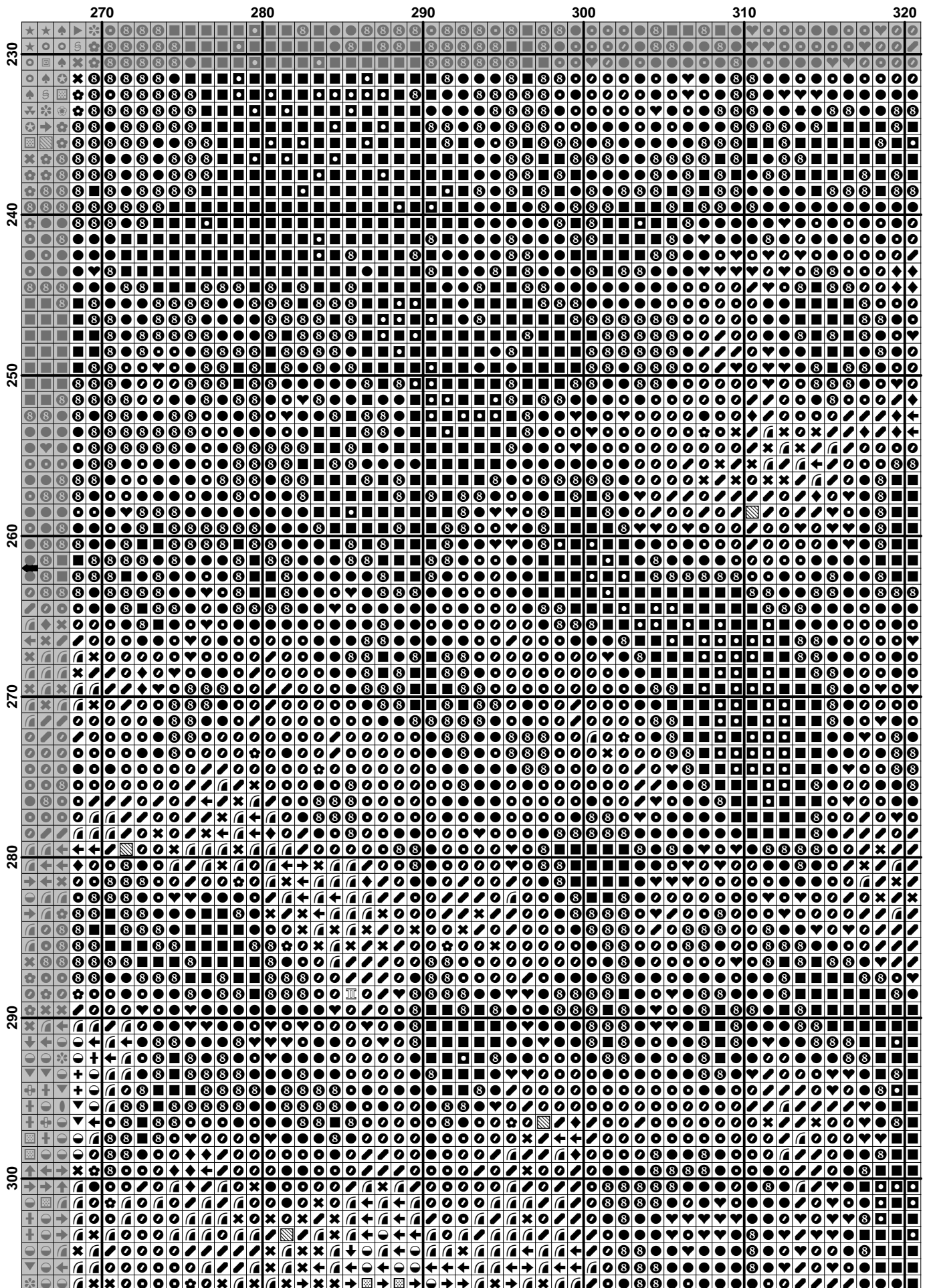
$$(34) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (35)$$

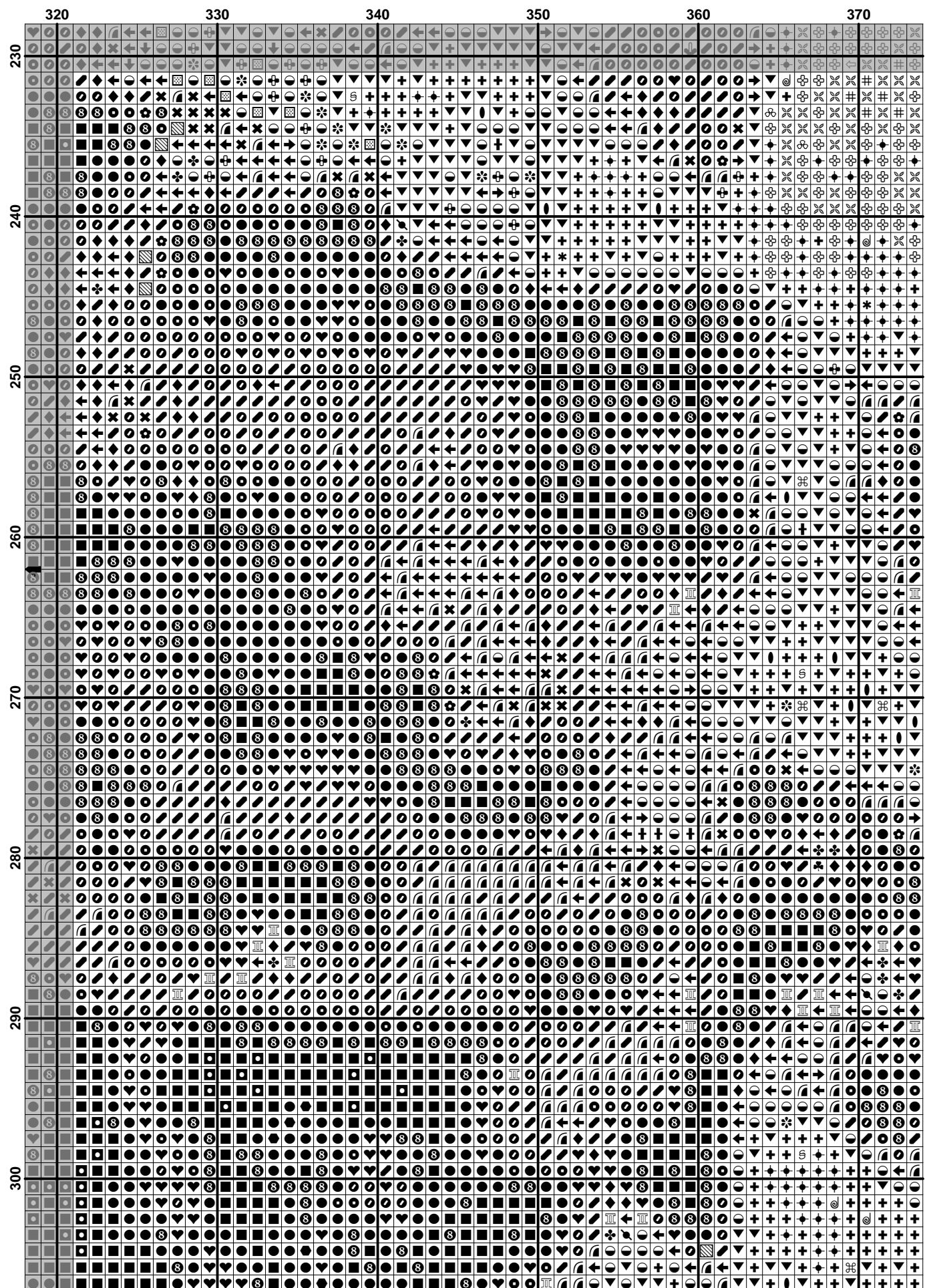
	110	120	130	140	150	160
230	...	...	...	...	...	...
240	...	...	...	...	...	...
250	...	...	...	...	...	...
260	...	...	...	...	...	...
270	...	...	...	...	...	...
280	...	...	...	...	...	...
290	...	...	...	...	...	...
300	...	...	...	...	...	...

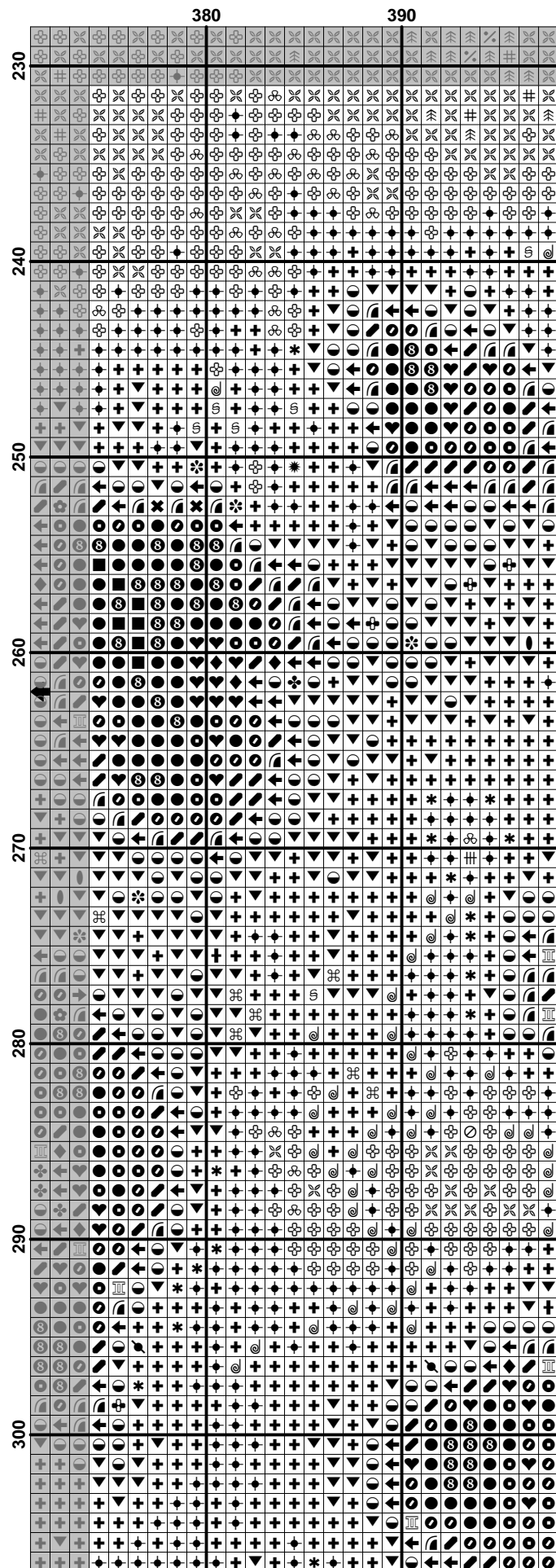


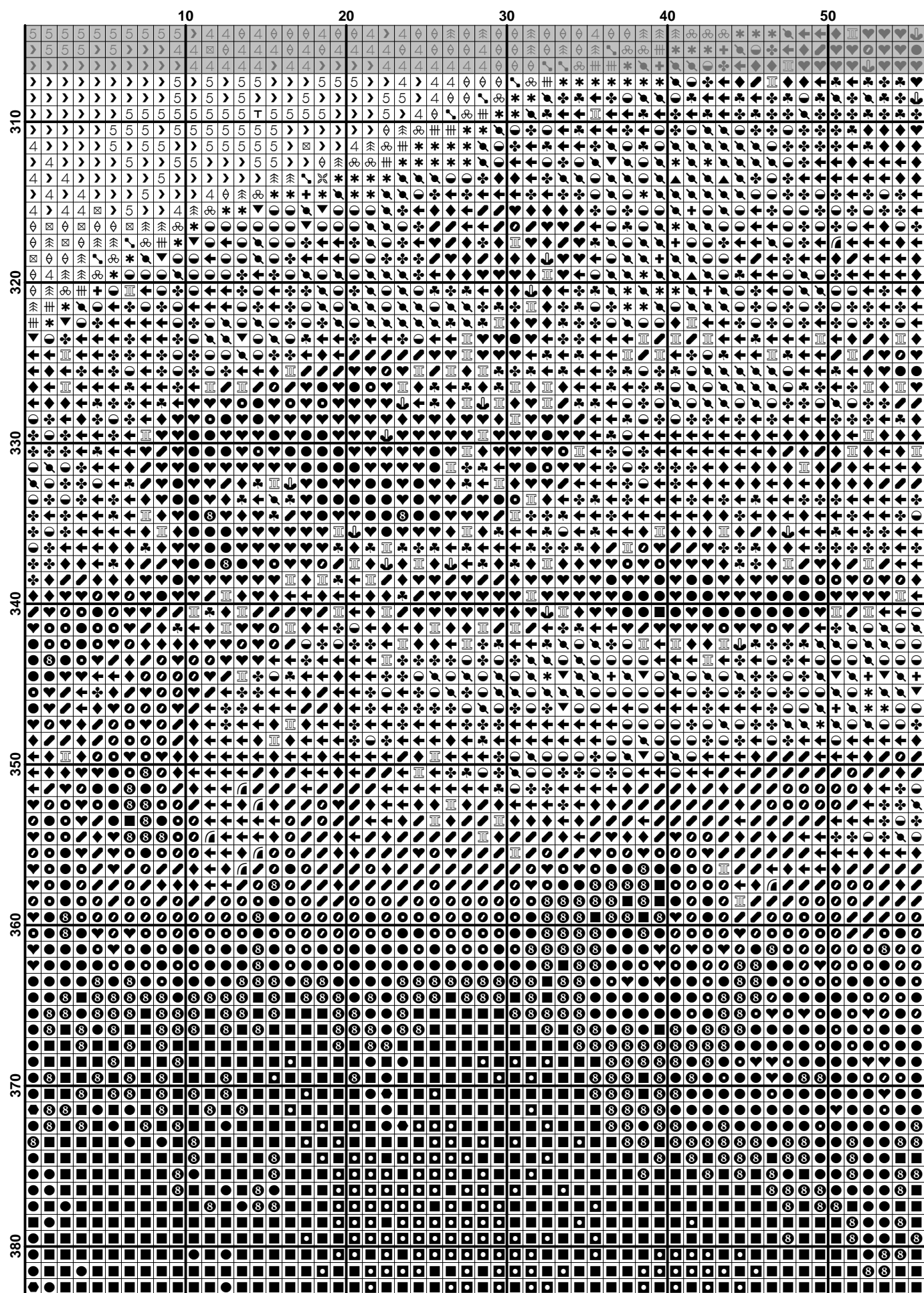


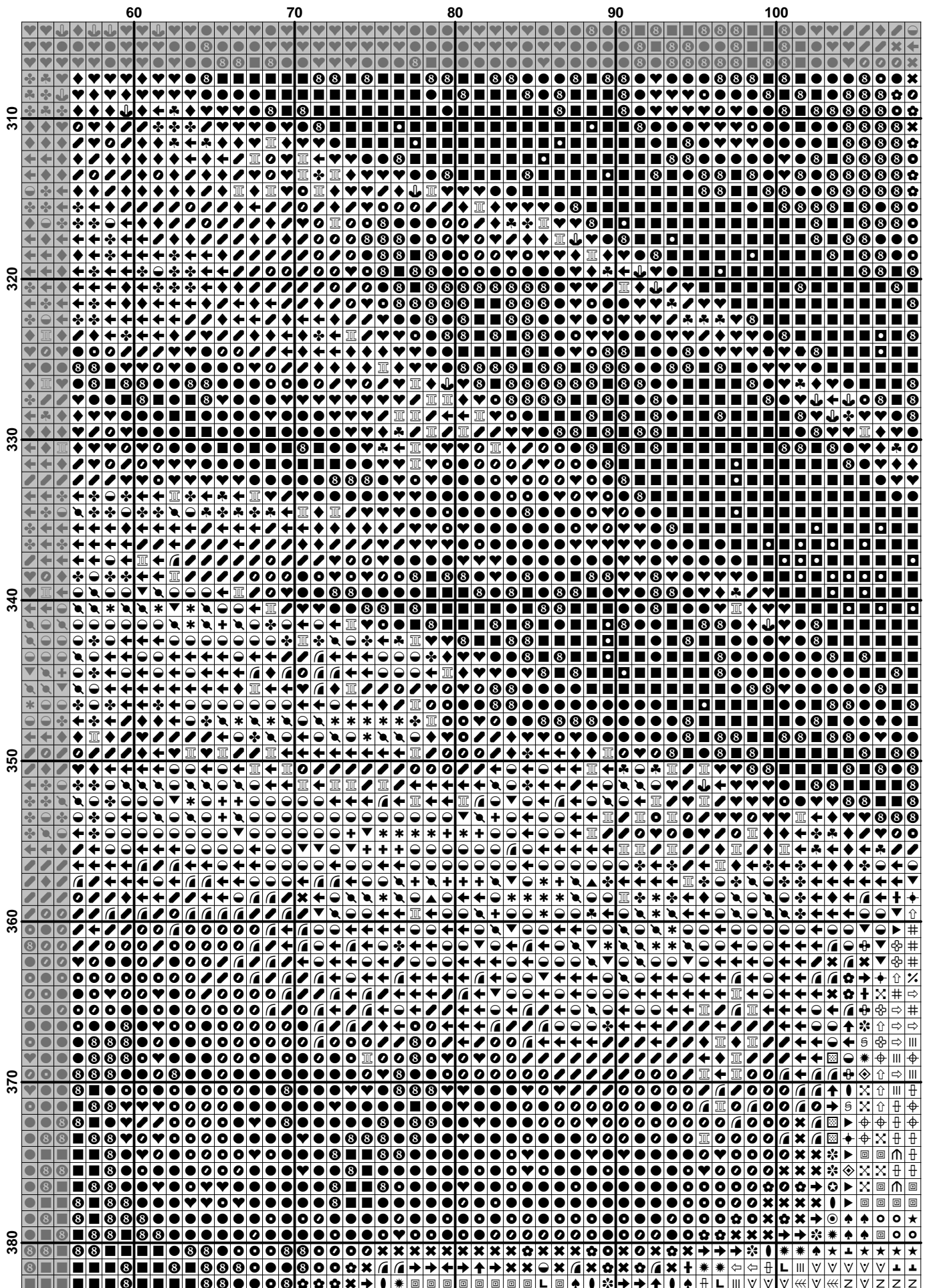












	110	120	130	140	150	160
310	...	...	...	...	...	...
320	...	...	...	...	...	...
330	...	...	...	...	...	...
340	...	...	...	...	...	...
350	...	...	...	...	...	...
360	...	...	...	...	...	...
370	...	...	...	...	...	...
380	...	...	...	...	...	...

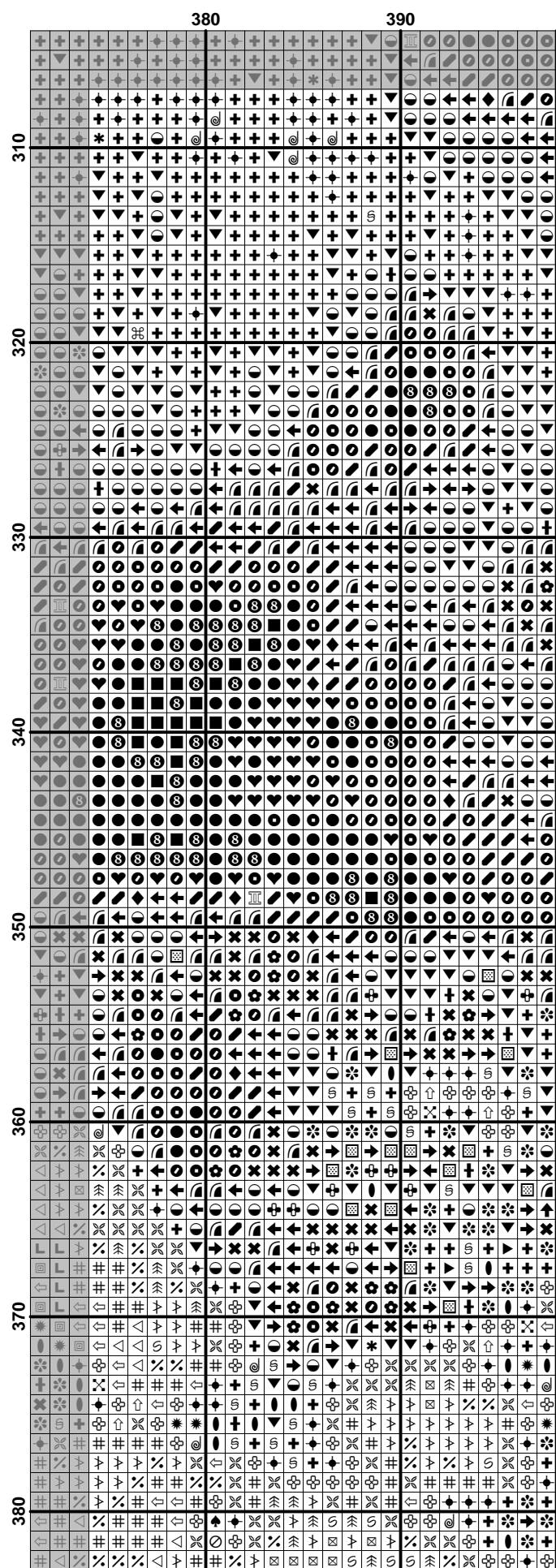
	160	170	180	190	200	210
310	...	...	...	...	...	...
320	...	...	...	...	...	...
330	...	...	...	...	...	...
340	...	...	...	...	...	...
350	...	...	...	...	...	...
360	...	...	...	...	...	...
370	...	...	...	...	...	...
380	...	...	...	...	...	...

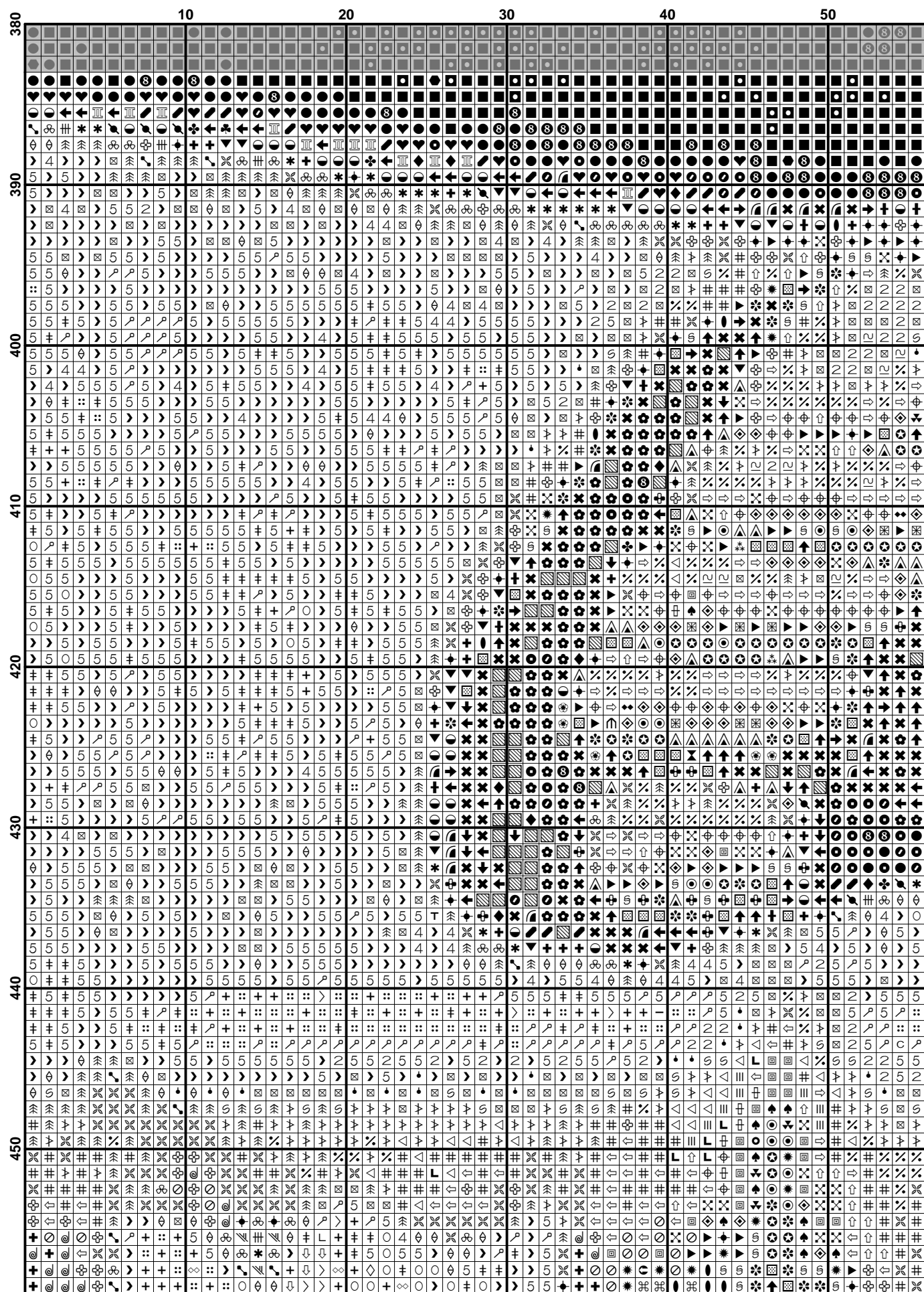
[illegible]

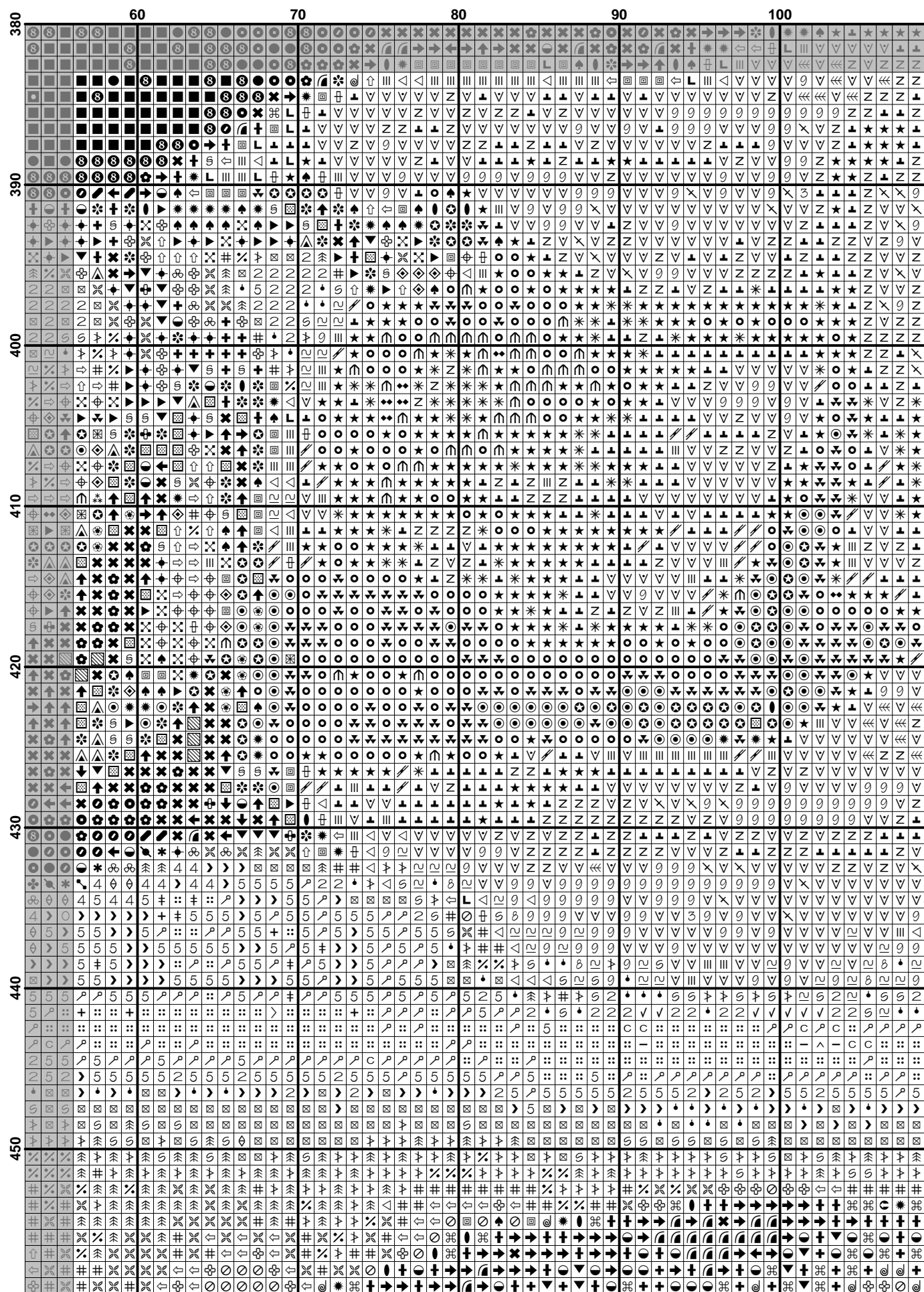


	270	280	290	300	310	320
310	...	...	...	...	...	...
320	...	...	...	...	...	...
330	...	...	...	...	...	...
340	...	...	...	...	...	...
350	...	...	...	...	...	...
360	...	...	...	...	...	...
370	...	...	...	...	...	...
380	...	...	...	...	...	...

(48)







(52)

[illegible]

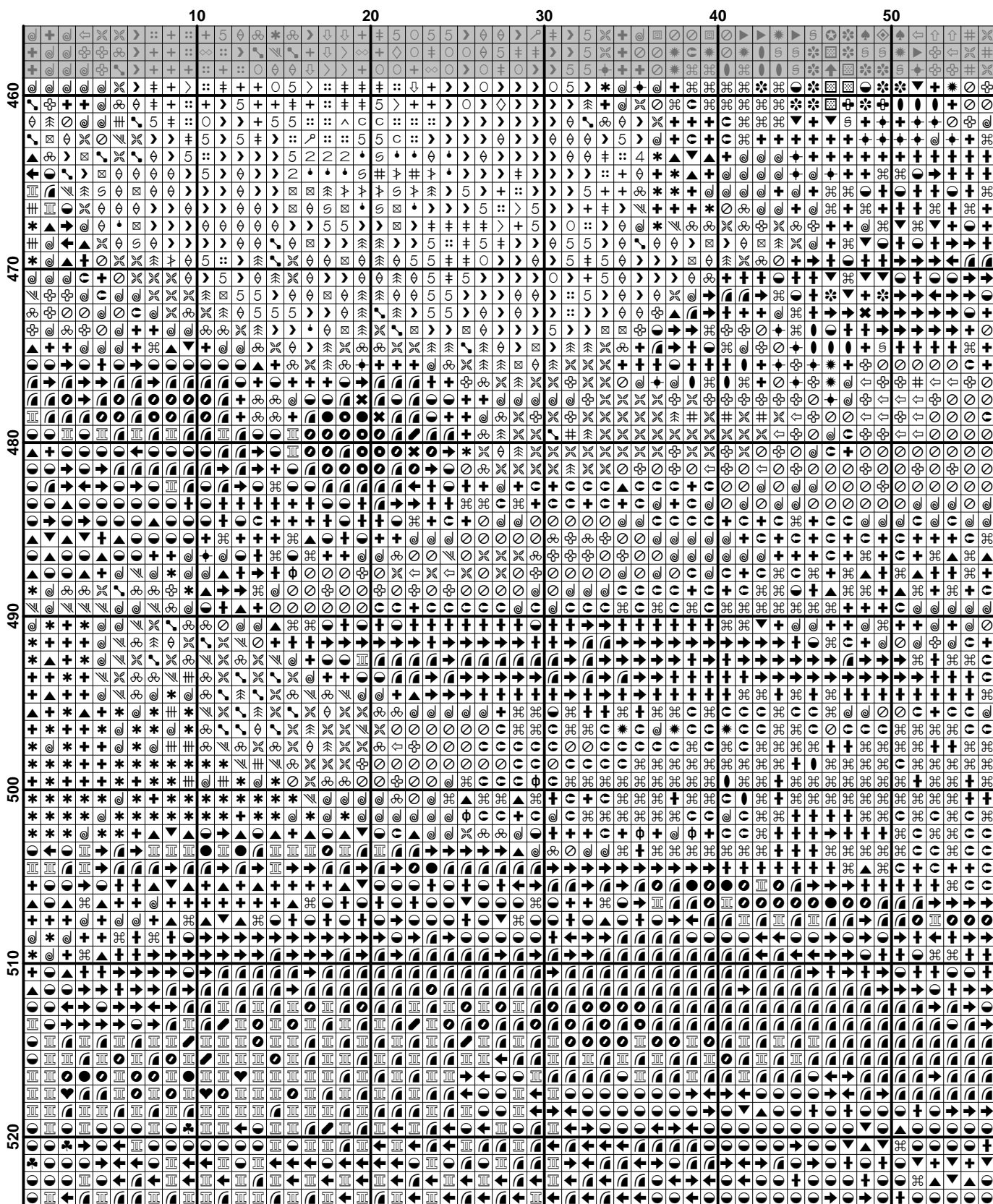
$$(53) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$



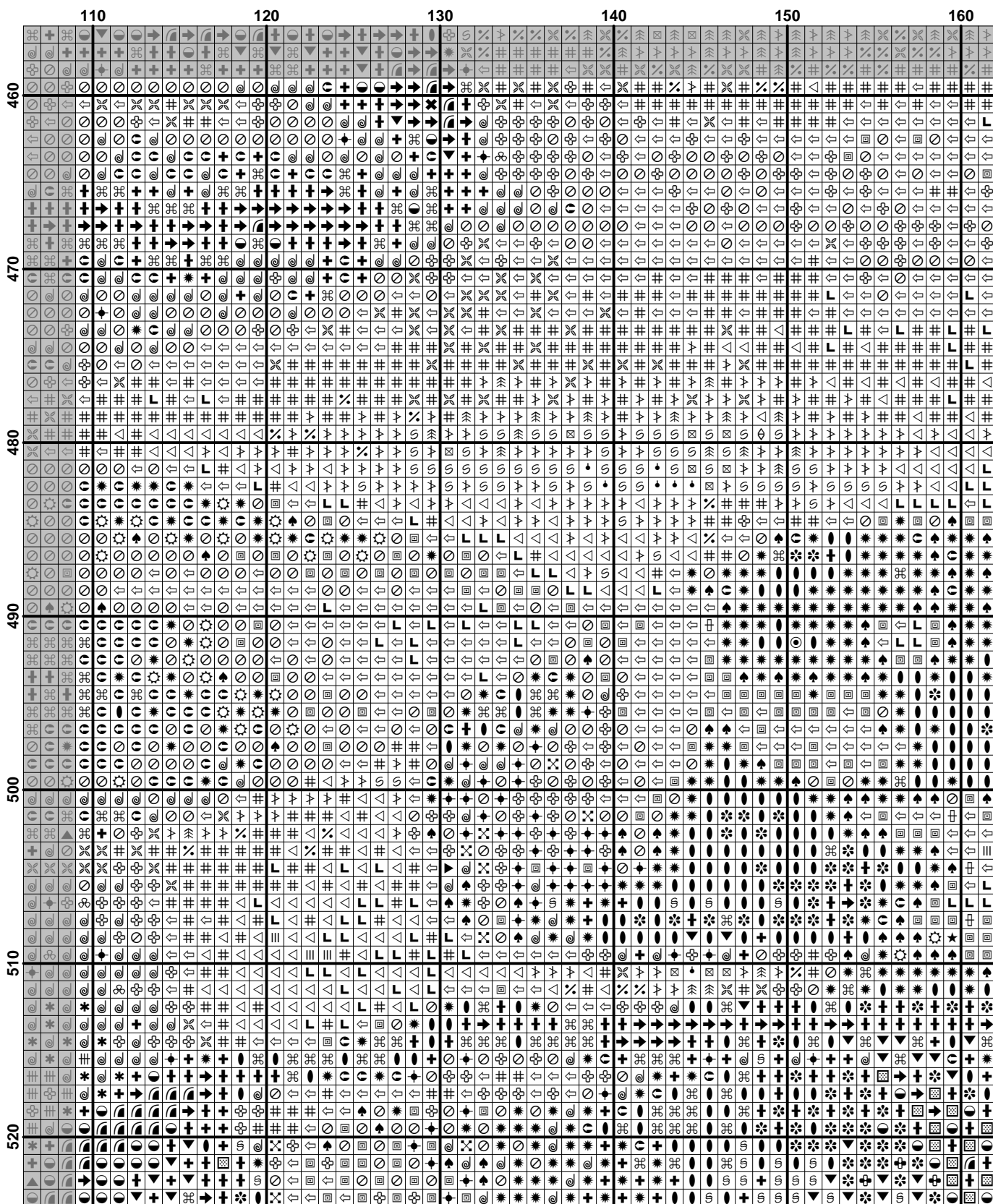
	270	280	290	300	310	320
380	★	★	★	★	★	★
390	★	★	★	★	★	★
400	★	★	★	★	★	★
410	★	★	★	★	★	★
420	★	★	★	★	★	★
430	★	★	★	★	★	★
440	★	★	★	★	★	★
450	★	★	★	★	★	★
460	★	★	★	★	★	★
470	★	★	★	★	★	★
480	★	★	★	★	★	★
490	★	★	★	★	★	★
500	★	★	★	★	★	★
510	★	★	★	★	★	★
520	★	★	★	★	★	★
530	★	★	★	★	★	★
540	★	★	★	★	★	★
550	★	★	★	★	★	★
560	★	★	★	★	★	★
570	★	★	★	★	★	★
580	★	★	★	★	★	★
590	★	★	★	★	★	★
600	★	★	★	★	★	★
610	★	★	★	★	★	★
620	★	★	★	★	★	★
630	★	★	★	★	★	★
640	★	★	★	★	★	★
650	★	★	★	★	★	★
660	★	★	★	★	★	★
670	★	★	★	★	★	★
680	★	★	★	★	★	★
690	★	★	★	★	★	★
700	★	★	★	★	★	★
710	★	★	★	★	★	★
720	★	★	★	★	★	★
730	★	★	★	★	★	★
740	★	★	★	★	★	★
750	★	★	★	★	★	★
760	★	★	★	★	★	★
770	★	★	★	★	★	★
780	★	★	★	★	★	★
790	★	★	★	★	★	★
800	★	★	★	★	★	★
810	★	★	★	★	★	★
820	★	★	★	★	★	★
830	★	★	★	★	★	★
840	★	★	★	★	★	★
850	★	★	★	★	★	★
860	★	★	★	★	★	★
870	★	★	★	★	★	★
880	★	★	★	★	★	★
890	★	★	★	★	★	★
900	★	★	★	★	★	★
910	★	★	★	★	★	★
920	★	★	★	★	★	★
930	★	★	★	★	★	★
940	★	★	★	★	★	★
950	★	★	★	★	★	★
960	★	★	★	★	★	★
970	★	★	★	★	★	★
980	★	★	★	★	★	★
990	★	★	★	★	★	★
1000	★	★	★	★	★	★

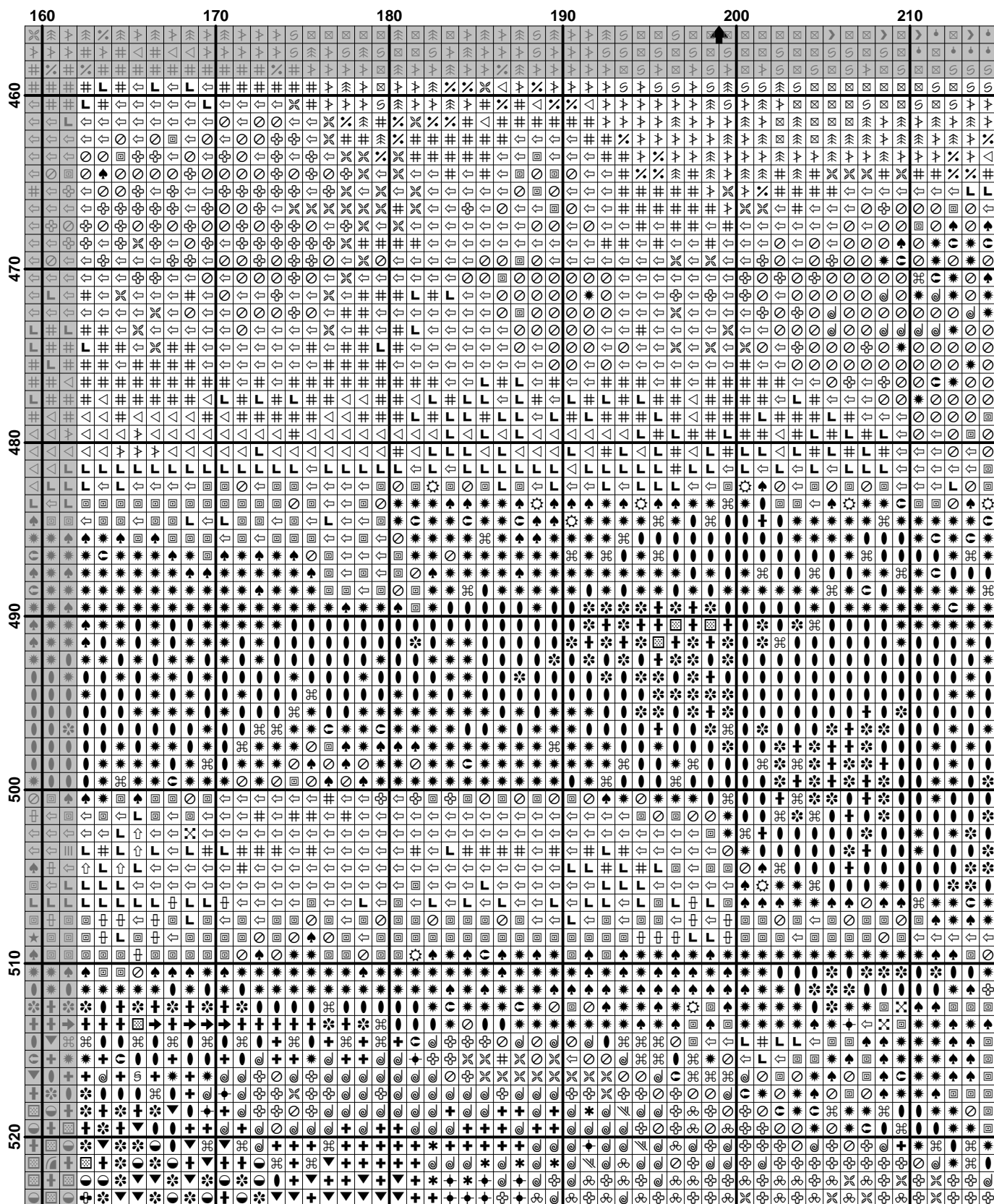
(56)

(56)









	220	230	240	250	260
460					
470					
480					
490					
500					
510					
520					



[illegible]

[illegible]

[illegible]