

485 Rubens, his wife Helena Fourment & son



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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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Rubens, his wife Helena Fourment and son

Stitch Count	
Horizontal:	400
Vertical:	512


















































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:	73	28.44	93	36.48	64	24.89	82	31.92	57	22.125	73	28.375
Including Margins:	89	35	109	43	80	31	98	38	73	29	89	35
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	102	39.81	130	51.07	85	33.18	108	42.56	42	16.59	54	21.28
Including Margins:	118	46	146	58	101	40	124	49	58	23	70	28
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	40	15.92	52	20.42	39	15.31	50	19.64	37	14.74	48	18.91
Including Margins:	56	22	68	27	55	22	66	26	53	21	64	25
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	36	14.22	46	18.24	34	13.27	43	17.02	31	12.44	40	15.96
Including Margins:	52	21	62	25	50	20	59	24	47	19	56	22

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
	310	Black
	317	Pewter Gray
	318	Steel Gray-LT
	341	Blue Violet-LT
	370	Mustard-MD
	371	Mustard
	407	Desert Sand-DK
	413	Pewter Gray-DK
	414	Steel Gray-DK
	420	Hazelnut Brown-DK
	422	Hazelnut Brown-LT
	433	Brown-MD
	434	Brown-LT
	435	Brown-VY LT
	436	Tan
	437	Tan-LT
	452	Shell Gray-MD
	453	Shell Gray-LT
	502	Blue Green
	503	Blue Green-MD
	520	Fern Green-DK
	524	Fern Green-VY LT
	535	Ash Gray-VY LT
	580	Moss Green-DK
	611	Drab Brown
	612	Drab Brown-LT
	632	Desert Sand-UL VY DK
	640	Beige Gray-VY DK
	642	Beige Gray-DK
	644	Beige Gray-MD
	645	Beaver Gray-VY DK
	646	Beaver Gray-DK
	647	Beaver Gray-MD
	680	Old Gold-DK
	712	Cream
	730	Olive Green-VY DK
	731	Olive Green-DK
	732	Olive Green
	738	Tan-VY LT
	739	Tan-UL VY LT
	758	Terra Cotta-VY LT
	762	Pearl Gray-VY LT
	778	Antique Mauve-VY LT
	780	Topaz-UL VY DK
	781	Topaz-VY DK
	782	Topaz-DK
	794	Cornflower Blue-LT
	829	Golden Olive-VY DK
	830	Golden Olive-DK

	833	Golden Olive-LT
	841	Beige Brown-LT
	844	Beaver Brown-UL DK
	869	Hazelnut Brown-VY DK
	895	Hunter Green-VY DK
	898	Coffee Brown-VY DK
	926	Gray Green-MD
	927	Gray Green-LT
	930	Antique Blue-DK
	932	Antique Blue-LT
	934	Black Avocado Green
	936	Avocado Green-VY DK
	938	Coffee Brown-UL DK
	945	Tawny
	948	Peach-VY LT
	950	Desert Sand-LT
	976	Golden Brown-MD
	977	Golden Brown-LT
	3011	Khaki Green-DK
	3012	Khaki Green-MD
	3021	Brown Gray-VY DK
	3022	Brown Gray-MD
	3023	Brown Gray-LT
	3031	Mocha Brown-VY DK
	3032	Mocha Brown-MD
	3041	Antique Violet-MD
	3045	Yellow Beige-DK
	3051	Green Gray-DK
	3052	Green Gray-MD
	3053	Green Gray
	3064	Desert Sand
	3346	Hunter Green
	3347	Yellow Green-MD
	3363	Pine Green-MD
	3371	Black Brown
	3768	Gray Green-DK
	3772	Desert Sand-VY DK
	3773	Desert Sand-MD
	3779	Terra Cotta-UL VY LT
	3781	Mocha Brown-DK
	3782	Mocha Brown-LT
	3787	Brown Gray-DK
	3799	Pewter Gray-VY DK
	3820	Straw-DK
	3828	Hazelnut Brown
	3829	Old Gold-VY DK
	3855	Autumn Gold-LT
	3861	Cocoa-LT
	3862	Mocha Beige-DK
	3863	Mocha Beige-MD
	3864	Mocha Beige-LT

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

Symbol	DMC1	Name1	DMC2	Name2
4	932	Antique Blue-LT	927	Gray Green-LT
#	927	Gray Green-LT	414	Steel Gray-DK
◇	3861	Cocoa-LT	452	Shell Gray-MD
♣	934	Black Avocado Green	3031	Mocha Brown-VY DK
◇	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
♣	647	Beaver Gray-MD	3022	Brown Gray-MD
♣	934	Black Avocado Green	3371	Black Brown
♣	371	Mustard	3863	Mocha Beige-MD
♣	831	Golden Olive-MD	840	Beige Brown-MD
♣	932	Antique Blue-LT	3752	Antique Blue-VY LT
◇	644	Beige Gray-MD	452	Shell Gray-MD
♥	814	Garnet-DK	3371	Black Brown
:	3823	Yellow-UL Pale	948	Peach-VY LT
♣	3031	Mocha Brown-VY DK	3051	Green Gray-DK
♣	830	Golden Olive-DK	3031	Mocha Brown-VY DK
♣	520	Fern Green-DK	829	Golden Olive-VY DK
0	437	Tan-LT	3045	Yellow Beige-DK
*	819	Baby Pink-LT	3865	Winter White
⊙	730	Olive Green-VY DK	731	Olive Green-DK
♣	3772	Desert Sand-VY DK	3828	Hazelnut Brown
♦	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
★	932	Antique Blue-LT	926	Gray Green-MD
▼	831	Golden Olive-MD	801	Coffee Brown-DK
♣	3051	Green Gray-DK	610	Drab Brown-DK
●	310	Black	3031	Mocha Brown-VY DK
c	762	Pearl Gray-VY LT	452	Shell Gray-MD
x	612	Drab Brown-LT	372	Mustard-LT
◇	640	Beige Gray-VY DK	3053	Green Gray
♣	3045	Yellow Beige-DK	407	Desert Sand-DK
♣	3773	Desert Sand-MD	738	Tan-VY LT
♣	420	Hazelnut Brown-DK	975	Golden Brown-DK
♣	3864	Mocha Beige-LT	436	Tan
::	738	Tan-VY LT	950	Desert Sand-LT
III	793	Cornflower Blue-MD	318	Steel Gray-LT
*	780	Topaz-UL VY DK	781	Topaz-VY DK
●	938	Coffee Brown-UL DK	3371	Black Brown
^	3024	Brown Gray-VY LT	739	Tan-UL VY LT
↑	3799	Pewter Gray-VY DK	501	Blue Green-DK
♣	730	Olive Green-VY DK	3051	Green Gray-DK
0	732	Olive Green	680	Old Gold-DK
III	433	Brown-MD	898	Coffee Brown-VY DK
†	780	Topaz-UL VY DK	433	Brown-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	
310	Black	15487	6097	14749	5806	13274	5225
317	Pewter Gray	119	46	113	44	102	40
318	Steel Gray-LT	42	16	40	15	36	14
341	Blue Violet-LT	13	5	12	4	11	4
370	Mustard-MD	247	97	235	92	212	83
371	Mustard	473	186	450	177	405	159
372	Mustard-LT	167	65	159	62	143	56
407	Desert Sand-DK	38	14	36	14	33	12
413	Pewter Gray-DK	87	34	83	32	74	29
414	Steel Gray-DK	206	81	196	77	176	69
420	Hazelnut Brown-DK	325	127	310	122	279	109
422	Hazelnut Brown-LT	145	57	138	54	124	48
433	Brown-MD	244	96	233	91	209	82
434	Brown-LT	47	18	45	17	40	15
435	Brown-VY LT	49	19	47	18	42	16
436	Tan	142	55	136	53	122	48
437	Tan-LT	167	65	159	62	143	56
452	Shell Gray-MD	335	131	319	125	287	112
453	Shell Gray-LT	124	48	118	46	106	41
501	Blue Green-DK	96	37	91	35	82	32
502	Blue Green	60	23	57	22	51	20
503	Blue Green-MD	97	38	92	36	83	32
520	Fern Green-DK	575	226	547	215	493	194
524	Fern Green-VY LT	135	53	129	50	116	45
535	Ash Gray-VY LT	163	64	156	61	140	55
580	Moss Green-DK	138	54	132	51	119	46
610	Drab Brown-DK	433	170	412	162	371	146
611	Drab Brown	760	299	724	285	651	256
612	Drab Brown-LT	469	184	446	175	402	158
632	Desert Sand-UL VY DK	17	6	16	6	14	5
640	Beige Gray-VY DK	524	206	499	196	449	176
642	Beige Gray-DK	122	48	116	45	104	40
644	Beige Gray-MD	354	139	337	132	303	119
645	Beaver Gray-VY DK	443	174	422	166	379	149
646	Beaver Gray-DK	297	116	283	111	255	100
647	Beaver Gray-MD	225	88	214	84	192	75
680	Old Gold-DK	372	146	354	139	319	125
712	Cream	200	78	191	75	171	67
730	Olive Green-VY DK	1737	683	1654	651	1489	586
731	Olive Green-DK	1013	398	965	379	868	341
732	Olive Green	500	196	476	187	429	168
738	Tan-VY LT	229	90	218	85	196	77
739	Tan-UL VY LT	201	79	191	75	172	67
758	Terra Cotta-VY LT	39	15	37	14	33	12
762	Pearl Gray-VY LT	76	29	72	28	65	25
778	Antique Mauve-VY LT	18	7	18	7	16	6
780	Topaz-UL VY DK	108	42	103	40	93	36
781	Topaz-VY DK	70	27	66	25	60	23
782	Topaz-DK	15	5	15	5	13	5
793	Cornflower Blue-MD	14	5	13	5	12	4
794	Cornflower Blue-LT	23	9	22	8	20	7
801	Coffee Brown-DK	69	27	65	25	59	23
814	Garnet-DK	290	114	276	108	249	98
819	Baby Pink-LT	45	17	43	16	38	14

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829	Golden Olive-VY DK	932	366	887	349	799	314
830	Golden Olive-DK	1314	517	1251	492	1126	443
831	Golden Olive-MD	151	59	143	56	129	50
833	Golden Olive-LT	121	47	115	45	103	40
840	Beige Brown-MD	81	31	78	30	70	27
841	Beige Brown-LT	66	25	62	24	56	22
844	Beaver Brown-UL DK	301	118	286	112	258	101
869	Hazelnut Brown-VY DK	157	61	149	58	134	52
895	Hunter Green-VY DK	195	76	185	72	167	65
898	Coffee Brown-VY DK	855	336	814	320	733	288
926	Gray Green-MD	328	129	313	123	281	110
927	Gray Green-LT	255	100	243	95	219	86
930	Antique Blue-DK	56	22	53	20	48	18
932	Antique Blue-LT	181	71	172	67	155	61
934	Black Avocado Green	3525	1387	3357	1321	3022	1189
936	Avocado Green-VY DK	718	282	684	269	616	242
938	Coffee Brown-UL DK	807	317	768	302	691	272
945	Tawny	33	12	31	12	28	11
948	Peach-VY LT	188	74	179	70	161	63
950	Desert Sand-LT	112	44	107	42	96	37
975	Golden Brown-DK	25	9	24	9	22	8
976	Golden Brown-MD	21	8	20	7	18	7
977	Golden Brown-LT	27	10	26	10	23	9
3011	Khaki Green-DK	699	275	666	262	599	235
3012	Khaki Green-MD	643	253	612	240	551	216
3021	Brown Gray-VY DK	832	327	792	311	713	280
3022	Brown Gray-MD	287	112	274	107	246	96
3023	Brown Gray-LT	158	62	151	59	135	53
3024	Brown Gray-VY LT	120	47	115	45	103	40
3031	Mocha Brown-VY DK	4955	1950	4719	1857	4247	1672
3032	Mocha Brown-MD	268	105	255	100	230	90
3041	Antique Violet-MD	37	14	36	14	32	12
3045	Yellow Beige-DK	364	143	346	136	312	122
3051	Green Gray-DK	2251	886	2143	843	1929	759
3052	Green Gray-MD	205	80	195	76	176	69
3053	Green Gray	220	86	210	82	189	74
3064	Desert Sand	12	4	12	4	11	4
3346	Hunter Green	47	18	45	17	40	15
3347	Yellow Green-MD	27	10	26	10	23	9
3363	Pine Green-MD	95	37	90	35	81	31
3371	Black Brown	4897	1927	4663	1835	4197	1652
3752	Antique Blue-VY LT	25	9	24	9	22	8
3768	Gray Green-DK	129	50	123	48	110	43
3772	Desert Sand-VY DK	22	8	21	8	19	7
3773	Desert Sand-MD	75	29	71	27	64	25
3779	Terra Cotta-UL VY LT	7	2	6	2	6	2
3781	Mocha Brown-DK	226	88	215	84	193	75
3782	Mocha Brown-LT	240	94	229	90	206	81
3787	Brown Gray-DK	371	146	353	138	318	125
3799	Pewter Gray-VY DK	582	229	555	218	499	196
3820	Straw-DK	31	12	30	11	27	10
3823	Yellow-UL Pale	21	8	20	7	18	7
3828	Hazelnut Brown	284	111	270	106	243	95
3829	Old Gold-VY DK	57	22	54	21	49	19
3855	Autumn Gold-LT	37	14	36	14	32	12
3861	Cocoa-LT	104	40	99	38	89	35
3862	Mocha Beige-DK	175	68	167	65	150	59
3863	Mocha Beige-MD	142	55	136	53	122	48
3864	Mocha Beige-LT	219	86	209	82	188	74

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3865	Winter White	45	17	43	16	38	14
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Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
310	Black	23893	9405	19911	7838	9956	3919
317	Pewter Gray	184	72	153	60	77	30
318	Steel Gray-LT	65	25	54	21	27	11
341	Blue Violet-LT	20	7	17	6	8	3
370	Mustard-MD	382	149	318	125	159	62
371	Mustard	729	286	608	239	304	119
372	Mustard-LT	257	101	215	84	107	42
407	Desert Sand-DK	59	22	50	18	25	9
413	Pewter Gray-DK	133	52	111	44	56	22
414	Steel Gray-DK	317	124	264	104	132	52
420	Hazelnut Brown-DK	502	196	419	164	209	82
422	Hazelnut Brown-LT	223	86	186	72	93	36
433	Brown-MD	376	148	314	123	157	62
434	Brown-LT	72	27	60	23	30	11
435	Brown-VY LT	76	29	63	24	32	12
436	Tan	220	86	183	72	92	36
437	Tan-LT	257	101	215	84	107	42
452	Shell Gray-MD	517	202	431	168	215	84
453	Shell Gray-LT	191	74	159	62	80	31
501	Blue Green-DK	148	58	123	48	62	24
502	Blue Green	92	36	77	30	38	15
503	Blue Green-MD	149	58	125	48	62	24
520	Fern Green-DK	887	349	740	291	370	146
524	Fern Green-VY LT	209	81	174	68	87	34
535	Ash Gray-VY LT	252	99	210	83	105	41
580	Moss Green-DK	214	83	179	69	89	35
610	Drab Brown-DK	668	263	557	219	278	110
611	Drab Brown	1172	461	977	384	488	192
612	Drab Brown-LT	724	284	603	237	302	119
632	Desert Sand-UL VY DK	25	9	21	8	11	4
640	Beige Gray-VY DK	808	317	674	264	337	132
642	Beige Gray-DK	187	72	156	60	78	30
644	Beige Gray-MD	545	214	455	179	227	89
645	Beaver Gray-VY DK	682	268	569	224	284	112
646	Beaver Gray-DK	459	180	383	150	191	75
647	Beaver Gray-MD	346	135	288	113	144	56
680	Old Gold-DK	574	225	479	188	239	94
712	Cream	308	121	257	101	128	50
730	Olive Green-VY DK	2680	1055	2234	879	1117	440
731	Olive Green-DK	1562	614	1302	512	651	256
732	Olive Green	772	302	644	252	322	126
738	Tan-VY LT	353	139	294	116	147	58
739	Tan-UL VY LT	310	121	258	101	129	50
758	Terra Cotta-VY LT	59	22	50	18	25	9
762	Pearl Gray-VY LT	117	45	98	38	49	19
778	Antique Mauve-VY LT	29	11	24	9	12	5
780	Topaz-UL VY DK	167	65	140	54	70	27
781	Topaz-VY DK	108	41	90	35	45	17
782	Topaz-DK	23	9	20	8	10	4
793	Cornflower Blue-MD	22	7	18	6	9	3
794	Cornflower Blue-LT	36	13	30	11	15	5

801	Coffee Brown-DK	106	41	89	35	44	17
814	Garnet-DK	448	176	374	147	187	74
819	Baby Pink-LT	68	25	57	21	29	11
829	Golden Olive-VY DK	1438	565	1199	471	599	236
830	Golden Olive-DK	2027	797	1689	665	845	332
831	Golden Olive-MD	232	90	194	75	97	38
833	Golden Olive-LT	185	72	155	60	77	30
840	Beige Brown-MD	126	49	105	41	53	20
841	Beige Brown-LT	101	40	84	33	42	17
844	Beaver Brown-UL DK	464	182	387	152	194	76
869	Hazelnut Brown-VY DK	241	94	201	78	101	39
895	Hunter Green-VY DK	301	117	251	98	125	49
898	Coffee Brown-VY DK	1319	518	1100	432	550	216
926	Gray Green-MD	506	198	422	165	211	83
927	Gray Green-LT	394	155	329	129	164	65
930	Antique Blue-DK	86	32	72	27	36	14
932	Antique Blue-LT	279	110	233	92	116	46
934	Black Avocado Green	5440	2140	4533	1784	2267	892
936	Avocado Green-VY DK	1109	436	924	363	462	182
938	Coffee Brown-UL DK	1244	490	1037	408	518	204
945	Tawny	50	20	42	17	21	8
948	Peach-VY LT	290	113	242	95	121	47
950	Desert Sand-LT	173	67	144	56	72	28
975	Golden Brown-DK	40	14	33	12	17	6
976	Golden Brown-MD	32	13	27	11	14	5
977	Golden Brown-LT	41	16	35	14	17	7
3011	Khaki Green-DK	1078	423	899	353	449	176
3012	Khaki Green-MD	992	389	827	324	413	162
3021	Brown Gray-VY DK	1283	504	1070	420	535	210
3022	Brown Gray-MD	443	173	369	144	185	72
3023	Brown Gray-LT	243	95	203	80	101	40
3024	Brown Gray-VY LT	185	72	155	60	77	30
3031	Mocha Brown-VY DK	7645	3010	6371	2508	3185	1254
3032	Mocha Brown-MD	414	162	345	135	173	68
3041	Antique Violet-MD	58	22	48	18	24	9
3045	Yellow Beige-DK	562	220	468	183	234	92
3051	Green Gray-DK	3472	1366	2894	1139	1447	569
3052	Green Gray-MD	317	124	264	104	132	52
3053	Green Gray	340	133	284	111	142	56
3064	Desert Sand	20	7	17	6	8	3
3346	Hunter Green	72	27	60	23	30	11
3347	Yellow Green-MD	41	16	35	14	17	7
3363	Pine Green-MD	146	56	122	47	61	23
3371	Black Brown	7555	2974	6296	2478	3148	1239
3752	Antique Blue-VY LT	40	14	33	12	17	6
3768	Gray Green-DK	198	77	165	65	83	32
3772	Desert Sand-VY DK	34	13	29	11	14	5
3773	Desert Sand-MD	115	45	96	38	48	19
3779	Terra Cotta-UL VY LT	11	4	9	3	5	2
3781	Mocha Brown-DK	347	135	290	113	145	56
3782	Mocha Brown-LT	371	146	309	122	155	61
3787	Brown Gray-DK	572	225	477	188	239	94
3799	Pewter Gray-VY DK	898	353	749	294	374	147
3820	Straw-DK	49	18	41	15	20	8
3823	Yellow-UL Pale	32	13	27	11	14	5
3828	Hazelnut Brown	437	171	365	143	182	71
3829	Old Gold-VY DK	88	34	74	29	37	14
3855	Autumn Gold-LT	58	22	48	18	24	9
3861	Cocoa-LT	160	63	134	53	67	26

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3862	Mocha Beige-DK	270	106	225	89	113	44
3863	Mocha Beige-MD	220	86	183	72	92	36
3864	Mocha Beige-LT	338	133	282	111	141	56
3865	Winter White	68	25	57	21	29	11

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
310	Black	23893	9405	19911	7838	9956	3919
317	Pewter Gray	184	72	153	60	77	30
318	Steel Gray-LT	65	25	54	21	27	11
341	Blue Violet-LT	20	7	17	6	8	3
370	Mustard-MD	382	149	318	125	159	62
371	Mustard	729	286	608	239	304	119
372	Mustard-LT	257	101	215	84	107	42
407	Desert Sand-DK	59	22	50	18	25	9
413	Pewter Gray-DK	133	52	111	44	56	22
414	Steel Gray-DK	317	124	264	104	132	52
420	Hazelnut Brown-DK	502	196	419	164	209	82
422	Hazelnut Brown-LT	223	86	186	72	93	36
433	Brown-MD	376	148	314	123	157	62
434	Brown-LT	72	27	60	23	30	11
435	Brown-VY LT	76	29	63	24	32	12
436	Tan	220	86	183	72	92	36
437	Tan-LT	257	101	215	84	107	42
452	Shell Gray-MD	517	202	431	168	215	84
453	Shell Gray-LT	191	74	159	62	80	31
501	Blue Green-DK	148	58	123	48	62	24
502	Blue Green	92	36	77	30	38	15
503	Blue Green-MD	149	58	125	48	62	24
520	Fern Green-DK	887	349	740	291	370	146
524	Fern Green-VY LT	209	81	174	68	87	34
535	Ash Gray-VY LT	252	99	210	83	105	41
580	Moss Green-DK	214	83	179	69	89	35
610	Drab Brown-DK	668	263	557	219	278	110
611	Drab Brown	1172	461	977	384	488	192
612	Drab Brown-LT	724	284	603	237	302	119
632	Desert Sand-UL VY DK	25	9	21	8	11	4
640	Beige Gray-VY DK	808	317	674	264	337	132
642	Beige Gray-DK	187	72	156	60	78	30
644	Beige Gray-MD	545	214	455	179	227	89
645	Beaver Gray-VY DK	682	268	569	224	284	112
646	Beaver Gray-DK	459	180	383	150	191	75
647	Beaver Gray-MD	346	135	288	113	144	56
680	Old Gold-DK	574	225	479	188	239	94
712	Cream	308	121	257	101	128	50
730	Olive Green-VY DK	2680	1055	2234	879	1117	440
731	Olive Green-DK	1562	614	1302	512	651	256
732	Olive Green	772	302	644	252	322	126
738	Tan-VY LT	353	139	294	116	147	58
739	Tan-UL VY LT	310	121	258	101	129	50
758	Terra Cotta-VY LT	59	22	50	18	25	9
762	Pearl Gray-VY LT	117	45	98	38	49	19
778	Antique Mauve-VY LT	29	11	24	9	12	5
780	Topaz-UL VY DK	167	65	140	54	70	27
781	Topaz-VY DK	108	41	90	35	45	17

782	Topaz-DK	23	9	20	8	10	4
793	Cornflower Blue-MD	22	7	18	6	9	3
794	Cornflower Blue-LT	36	13	30	11	15	5
801	Coffee Brown-DK	106	41	89	35	44	17
814	Garnet-DK	448	176	374	147	187	74
819	Baby Pink-LT	68	25	57	21	29	11
829	Golden Olive-VY DK	1438	565	1199	471	599	236
830	Golden Olive-DK	2027	797	1689	665	845	332
831	Golden Olive-MD	232	90	194	75	97	38
833	Golden Olive-LT	185	72	155	60	77	30
840	Beige Brown-MD	126	49	105	41	53	20
841	Beige Brown-LT	101	40	84	33	42	17
844	Beaver Brown-UL DK	464	182	387	152	194	76
869	Hazelnut Brown-VY DK	241	94	201	78	101	39
895	Hunter Green-VY DK	301	117	251	98	125	49
898	Coffee Brown-VY DK	1319	518	1100	432	550	216
926	Gray Green-MD	506	198	422	165	211	83
927	Gray Green-LT	394	155	329	129	164	65
930	Antique Blue-DK	86	32	72	27	36	14
932	Antique Blue-LT	279	110	233	92	116	46
934	Black Avocado Green	5440	2140	4533	1784	2267	892
936	Avocado Green-VY DK	1109	436	924	363	462	182
938	Coffee Brown-UL DK	1244	490	1037	408	518	204
945	Tawny	50	20	42	17	21	8
948	Peach-VY LT	290	113	242	95	121	47
950	Desert Sand-LT	173	67	144	56	72	28
975	Golden Brown-DK	40	14	33	12	17	6
976	Golden Brown-MD	32	13	27	11	14	5
977	Golden Brown-LT	41	16	35	14	17	7
3011	Khaki Green-DK	1078	423	899	353	449	176
3012	Khaki Green-MD	992	389	827	324	413	162
3021	Brown Gray-VY DK	1283	504	1070	420	535	210
3022	Brown Gray-MD	443	173	369	144	185	72
3023	Brown Gray-LT	243	95	203	80	101	40
3024	Brown Gray-VY LT	185	72	155	60	77	30
3031	Mocha Brown-VY DK	7645	3010	6371	2508	3185	1254
3032	Mocha Brown-MD	414	162	345	135	173	68
3041	Antique Violet-MD	58	22	48	18	24	9
3045	Yellow Beige-DK	562	220	468	183	234	92
3051	Green Gray-DK	3472	1366	2894	1139	1447	569
3052	Green Gray-MD	317	124	264	104	132	52
3053	Green Gray	340	133	284	111	142	56
3064	Desert Sand	20	7	17	6	8	3
3346	Hunter Green	72	27	60	23	30	11
3347	Yellow Green-MD	41	16	35	14	17	7
3363	Pine Green-MD	146	56	122	47	61	23
3371	Black Brown	7555	2974	6296	2478	3148	1239
3752	Antique Blue-VY LT	40	14	33	12	17	6
3768	Gray Green-DK	198	77	165	65	83	32
3772	Desert Sand-VY DK	34	13	29	11	14	5
3773	Desert Sand-MD	115	45	96	38	48	19
3779	Terra Cotta-UL VY LT	11	4	9	3	5	2
3781	Mocha Brown-DK	347	135	290	113	145	56
3782	Mocha Brown-LT	371	146	309	122	155	61
3787	Brown Gray-DK	572	225	477	188	239	94
3799	Pewter Gray-VY DK	898	353	749	294	374	147
3820	Straw-DK	49	18	41	15	20	8
3823	Yellow-UL Pale	32	13	27	11	14	5
3828	Hazelnut Brown	437	171	365	143	182	71

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3829	Old Gold-VY DK	88	34	74	29	37	14
3855	Autumn Gold-LT	58	22	48	18	24	9
3861	Cocoa-LT	160	63	134	53	67	26
3862	Mocha Beige-DK	270	106	225	89	113	44
3863	Mocha Beige-MD	220	86	183	72	92	36
3864	Mocha Beige-LT	338	133	282	111	141	56
3865	Winter White	68	25	57	21	29	11

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
310	Black	8533	3359	7964	3135	7467	2939
317	Pewter Gray	66	26	61	24	57	23
318	Steel Gray-LT	23	9	22	8	20	8
341	Blue Violet-LT	7	3	7	2	6	2
370	Mustard-MD	136	53	127	50	119	47
371	Mustard	260	102	243	95	228	89
372	Mustard-LT	92	36	86	34	80	32
407	Desert Sand-DK	21	8	20	7	19	7
413	Pewter Gray-DK	48	19	44	17	42	16
414	Steel Gray-DK	113	44	106	41	99	39
420	Hazelnut Brown-DK	179	70	167	65	157	61
422	Hazelnut Brown-LT	80	31	74	29	70	27
433	Brown-MD	134	53	125	49	118	46
434	Brown-LT	26	10	24	9	23	8
435	Brown-VY LT	27	10	25	10	24	9
436	Tan	78	31	73	29	69	27
437	Tan-LT	92	36	86	34	80	32
452	Shell Gray-MD	185	72	172	67	161	63
453	Shell Gray-LT	68	26	64	25	60	23
501	Blue Green-DK	53	21	49	19	46	18
502	Blue Green	33	13	31	12	29	11
503	Blue Green-MD	53	21	50	19	47	18
520	Fern Green-DK	317	125	296	116	277	109
524	Fern Green-VY LT	75	29	70	27	65	25
535	Ash Gray-VY LT	90	35	84	33	79	31
580	Moss Green-DK	77	30	71	28	67	26
610	Drab Brown-DK	239	94	223	88	209	82
611	Drab Brown	419	165	391	154	366	144
612	Drab Brown-LT	258	102	241	95	226	89
632	Desert Sand-UL VY DK	9	3	8	3	8	3
640	Beige Gray-VY DK	289	113	269	106	253	99
642	Beige Gray-DK	67	26	62	24	59	23
644	Beige Gray-MD	195	77	182	71	170	67
645	Beaver Gray-VY DK	244	96	227	89	213	84
646	Beaver Gray-DK	164	64	153	60	143	56
647	Beaver Gray-MD	123	48	115	45	108	42
680	Old Gold-DK	205	80	191	75	179	70
712	Cream	110	43	103	40	96	38
730	Olive Green-VY DK	957	377	893	352	838	330
731	Olive Green-DK	558	219	521	205	488	192
732	Olive Green	276	108	257	101	241	95
738	Tan-VY LT	126	50	118	46	110	43
739	Tan-UL VY LT	111	43	103	40	97	38
758	Terra Cotta-VY LT	21	8	20	7	19	7
762	Pearl Gray-VY LT	42	16	39	15	37	14
778	Antique Mauve-VY LT	10	4	10	4	9	3

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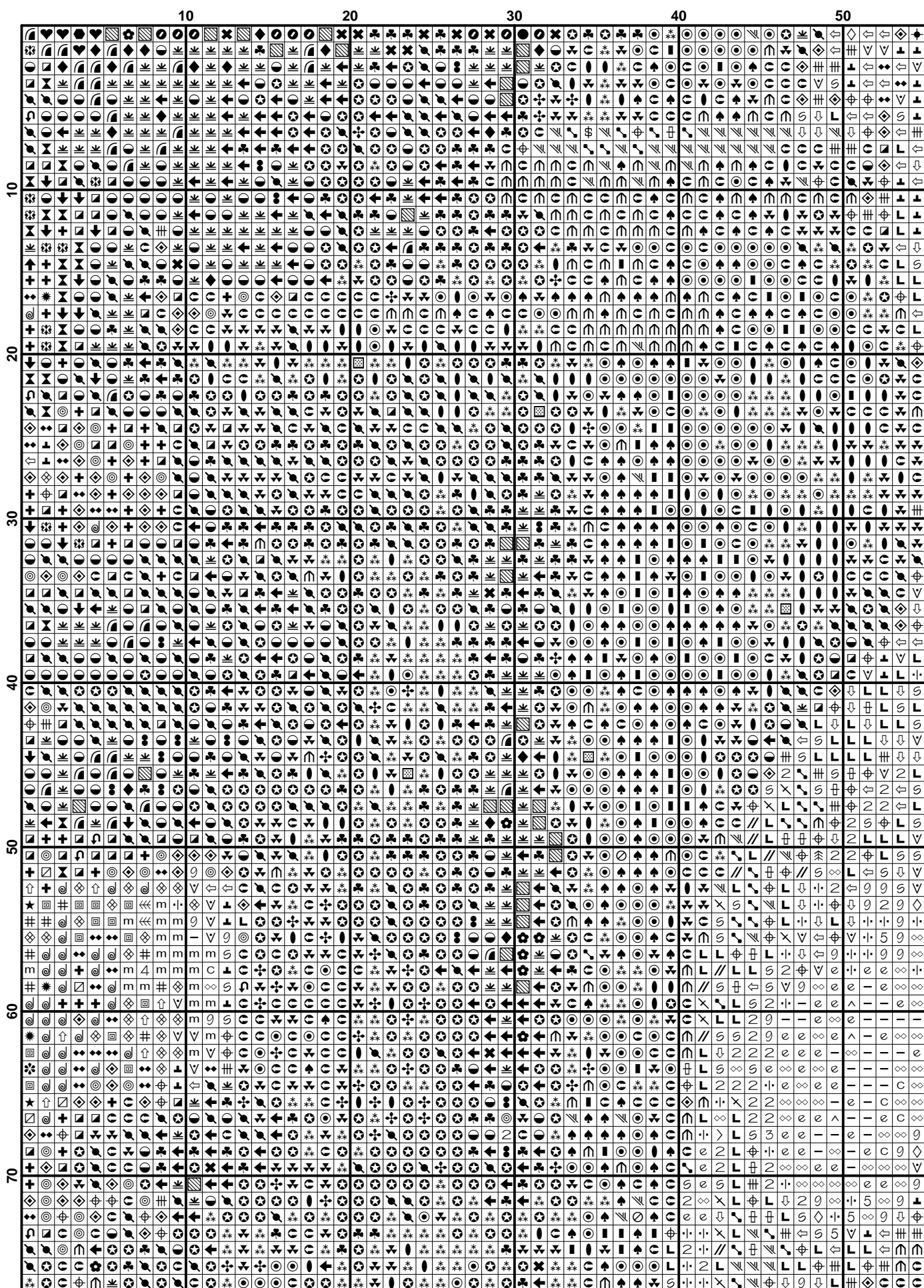
780	Topaz-UL VY DK	60	23	56	22	52	20
781	Topaz-VY DK	39	15	36	14	34	13
782	Topaz-DK	8	3	8	3	7	3
793	Cornflower Blue-MD	8	3	7	2	7	2
794	Cornflower Blue-LT	13	5	12	4	11	4
801	Coffee Brown-DK	38	15	35	14	33	13
814	Garnet-DK	160	63	149	59	140	55
819	Baby Pink-LT	24	9	23	8	21	8
829	Golden Olive-VY DK	514	202	479	188	449	177
830	Golden Olive-DK	724	285	676	266	633	249
831	Golden Olive-MD	83	32	77	30	73	28
833	Golden Olive-LT	66	26	62	24	58	23
840	Beige Brown-MD	45	17	42	16	39	15
841	Beige Brown-LT	36	14	34	13	32	12
844	Beaver Brown-UL DK	166	65	155	61	145	57
869	Hazelnut Brown-VY DK	86	33	80	31	75	29
895	Hunter Green-VY DK	107	42	100	39	94	37
898	Coffee Brown-VY DK	471	185	440	173	412	162
926	Gray Green-MD	181	71	169	66	158	62
927	Gray Green-LT	141	55	131	52	123	48
930	Antique Blue-DK	31	12	29	11	27	10
932	Antique Blue-LT	100	39	93	37	87	34
934	Black Avocado Green	1943	764	1813	713	1700	669
936	Avocado Green-VY DK	396	156	370	145	347	136
938	Coffee Brown-UL DK	444	175	415	163	389	153
945	Tawny	18	7	17	7	16	6
948	Peach-VY LT	104	41	97	38	91	35
950	Desert Sand-LT	62	24	58	22	54	21
975	Golden Brown-DK	14	5	13	5	12	5
976	Golden Brown-MD	12	5	11	4	10	4
977	Golden Brown-LT	15	6	14	5	13	5
3011	Khaki Green-DK	385	151	359	141	337	132
3012	Khaki Green-MD	354	139	331	130	310	122
3021	Brown Gray-VY DK	458	180	428	168	401	158
3022	Brown Gray-MD	158	62	148	58	138	54
3023	Brown Gray-LT	87	34	81	32	76	30
3024	Brown Gray-VY LT	66	26	62	24	58	23
3031	Mocha Brown-VY DK	2730	1075	2548	1003	2389	941
3032	Mocha Brown-MD	148	58	138	54	129	51
3041	Antique Violet-MD	21	8	19	7	18	7
3045	Yellow Beige-DK	201	78	187	73	176	69
3051	Green Gray-DK	1240	488	1157	455	1085	427
3052	Green Gray-MD	113	44	106	41	99	39
3053	Green Gray	122	48	113	44	106	42
3064	Desert Sand	7	3	7	2	6	2
3346	Hunter Green	26	10	24	9	23	8
3347	Yellow Green-MD	15	6	14	5	13	5
3363	Pine Green-MD	52	20	49	19	46	17
3371	Black Brown	2698	1062	2518	991	2361	929
3752	Antique Blue-VY LT	14	5	13	5	12	5
3768	Gray Green-DK	71	28	66	26	62	24
3772	Desert Sand-VY DK	12	5	11	4	11	4
3773	Desert Sand-MD	41	16	38	15	36	14
3779	Terra Cotta-UL VY LT	4	1	4	1	3	1
3781	Mocha Brown-DK	124	48	116	45	109	42
3782	Mocha Brown-LT	132	52	124	49	116	46
3787	Brown Gray-DK	204	80	191	75	179	70
3799	Pewter Gray-VY DK	321	126	299	118	281	110
3820	Straw-DK	17	6	16	6	15	6

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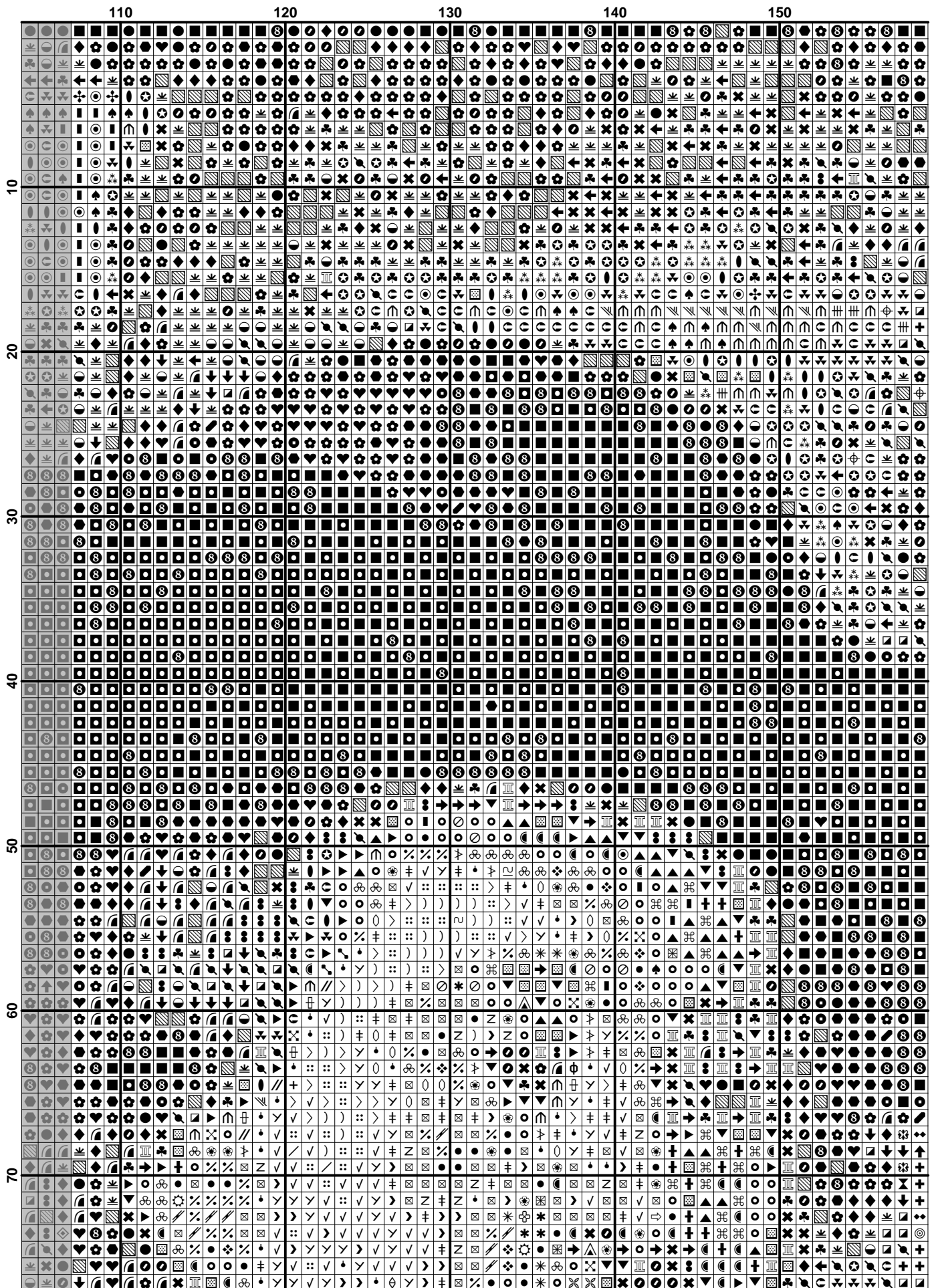
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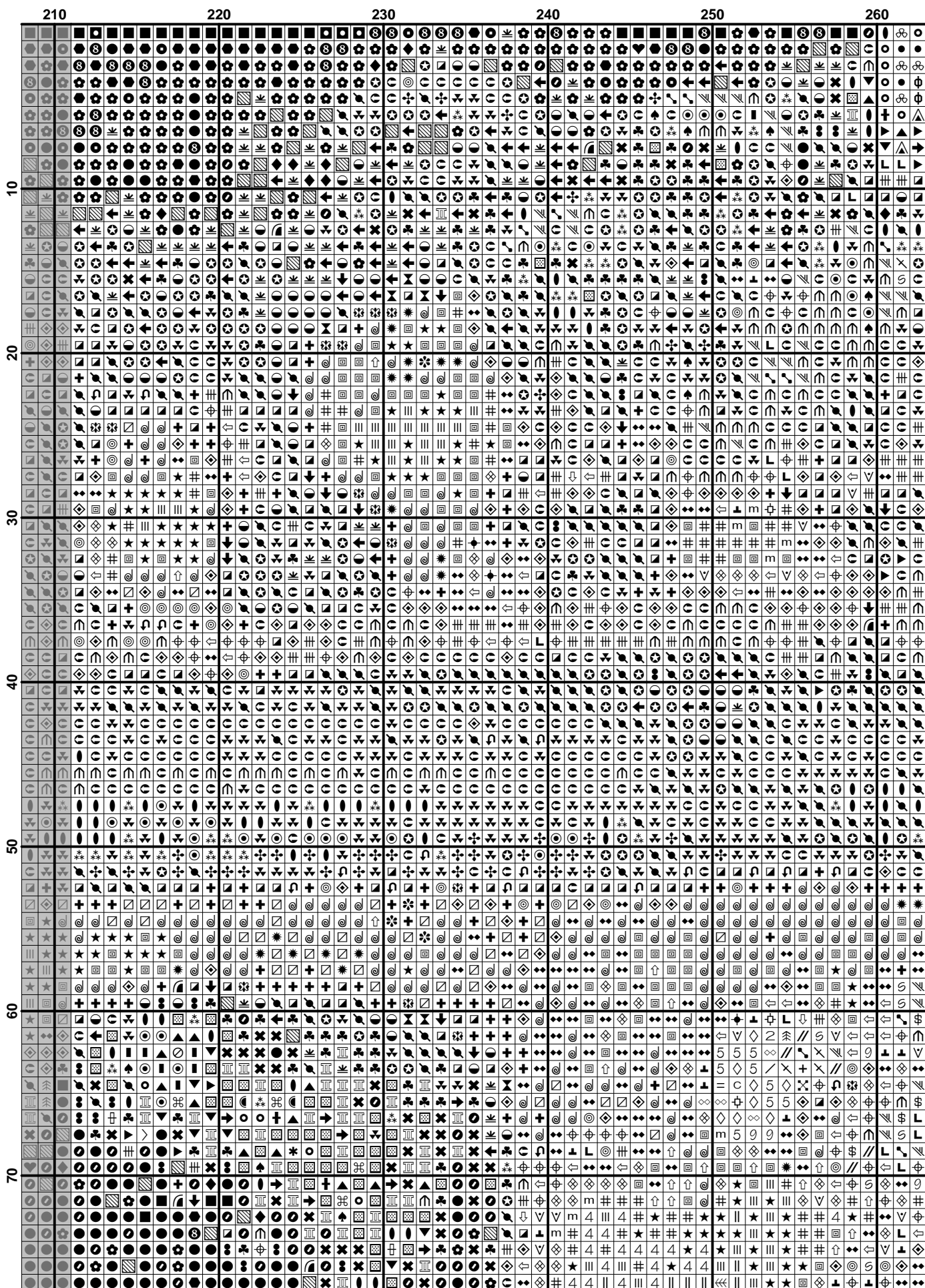
3823	Yellow-UL Pale	12	5	11	4	10	4
3828	Hazelnut Brown	156	61	146	57	137	53
3829	Old Gold-VY DK	32	12	29	11	28	11
3855	Autumn Gold-LT	21	8	19	7	18	7
3861	Cocoa-LT	57	23	53	21	50	20
3862	Mocha Beige-DK	96	38	90	35	84	33
3863	Mocha Beige-MD	78	31	73	29	69	27
3864	Mocha Beige-LT	121	48	113	44	106	42
3865	Winter White	24	9	23	8	21	8

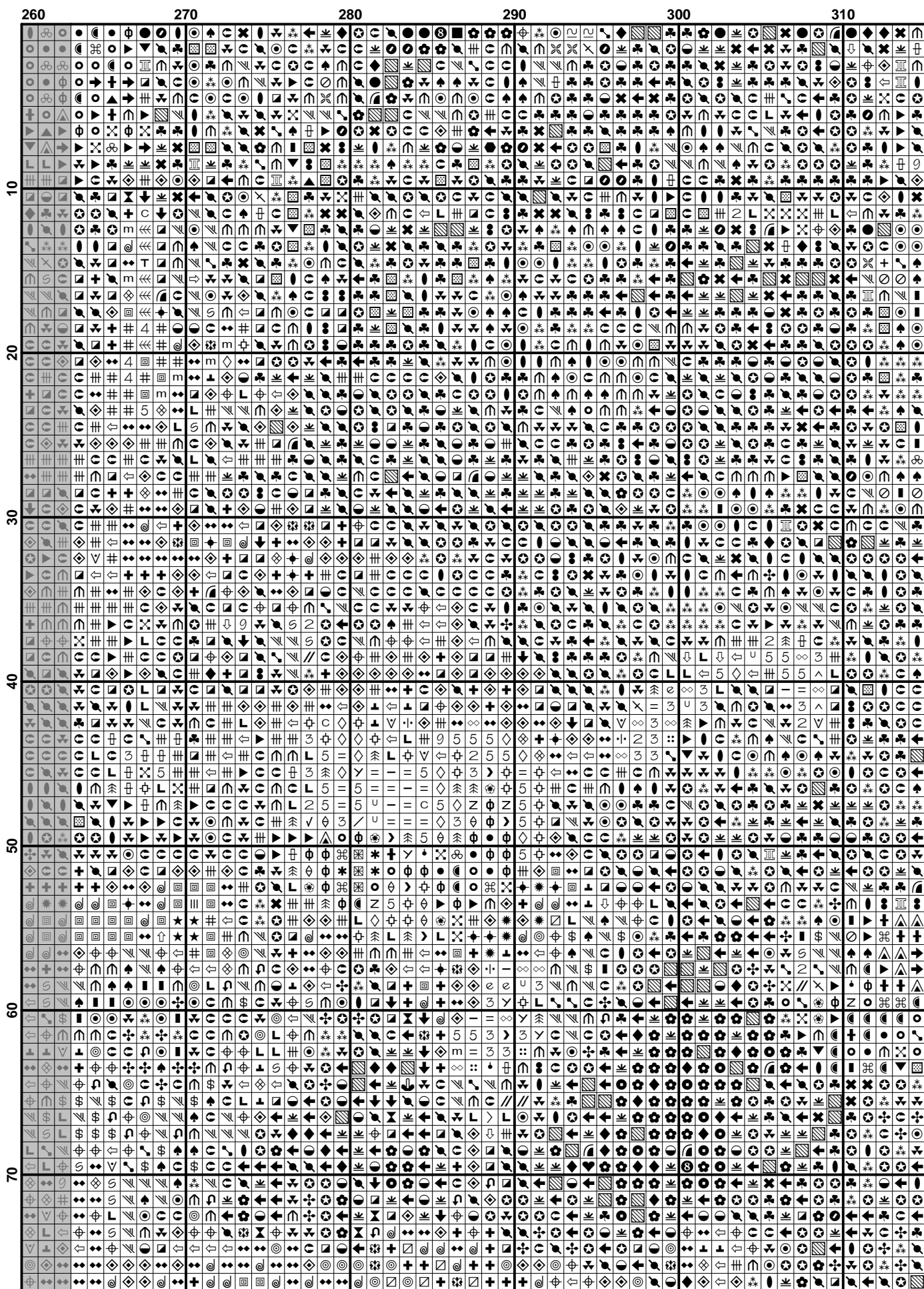


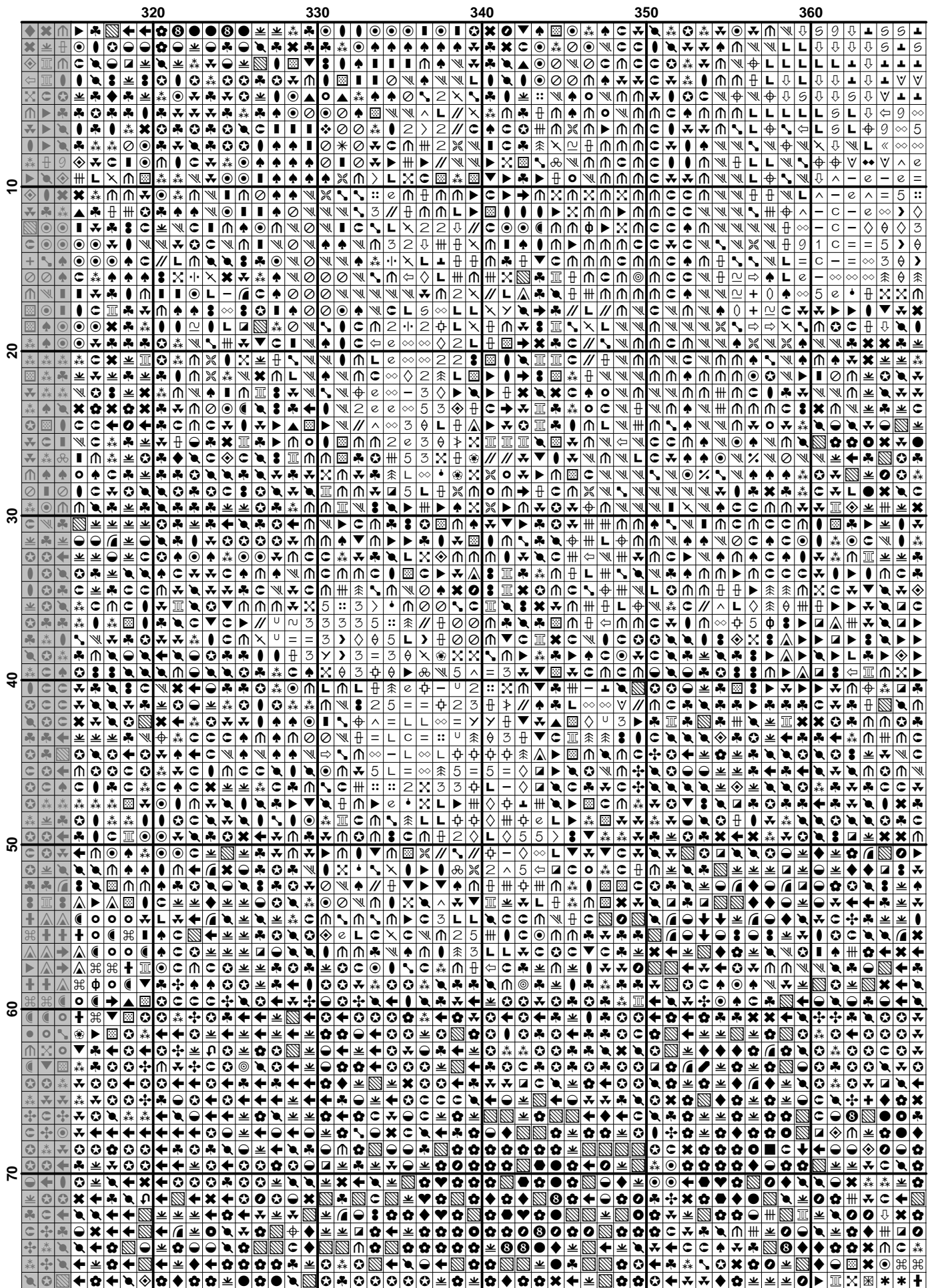
$$(10) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (11)$$

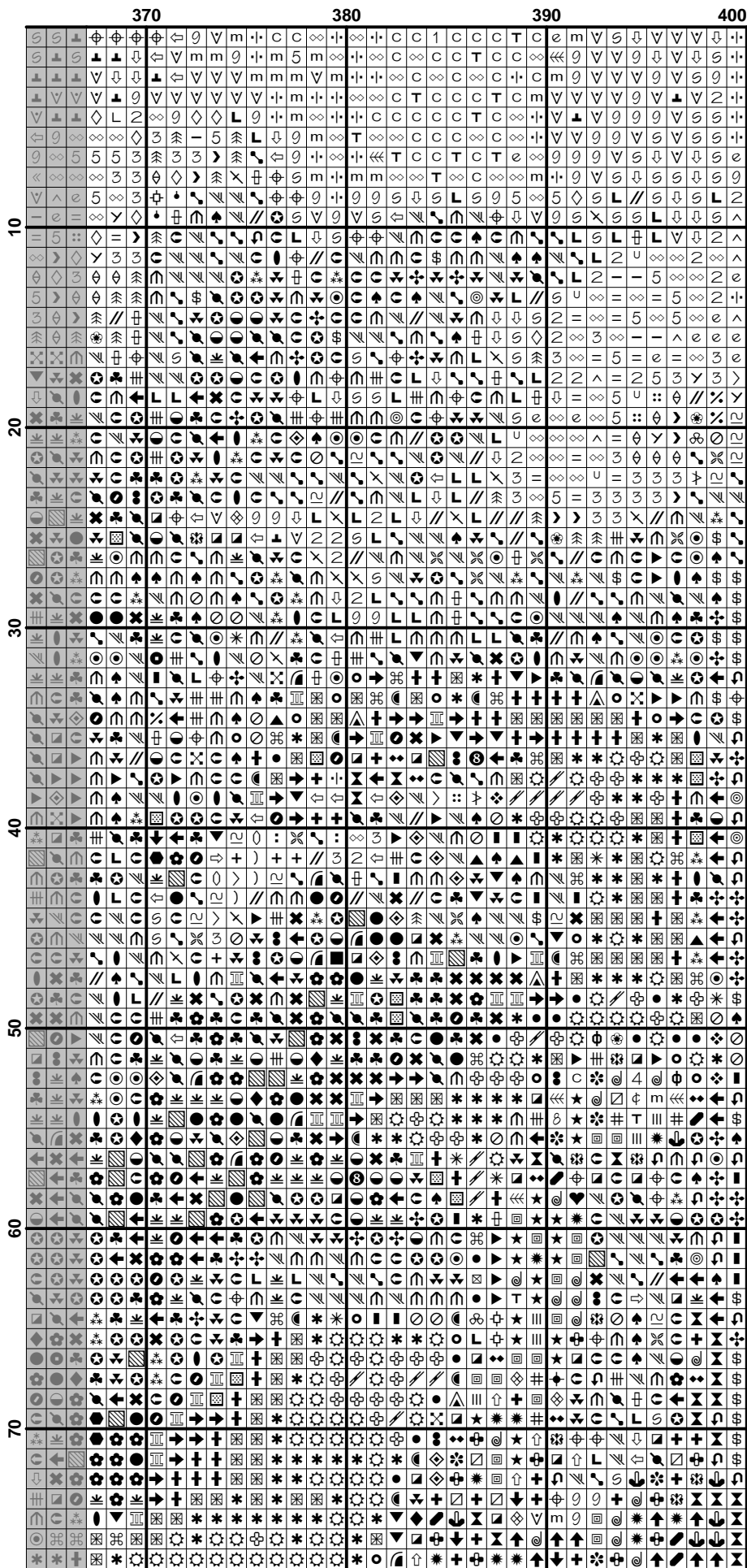












$$(17) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

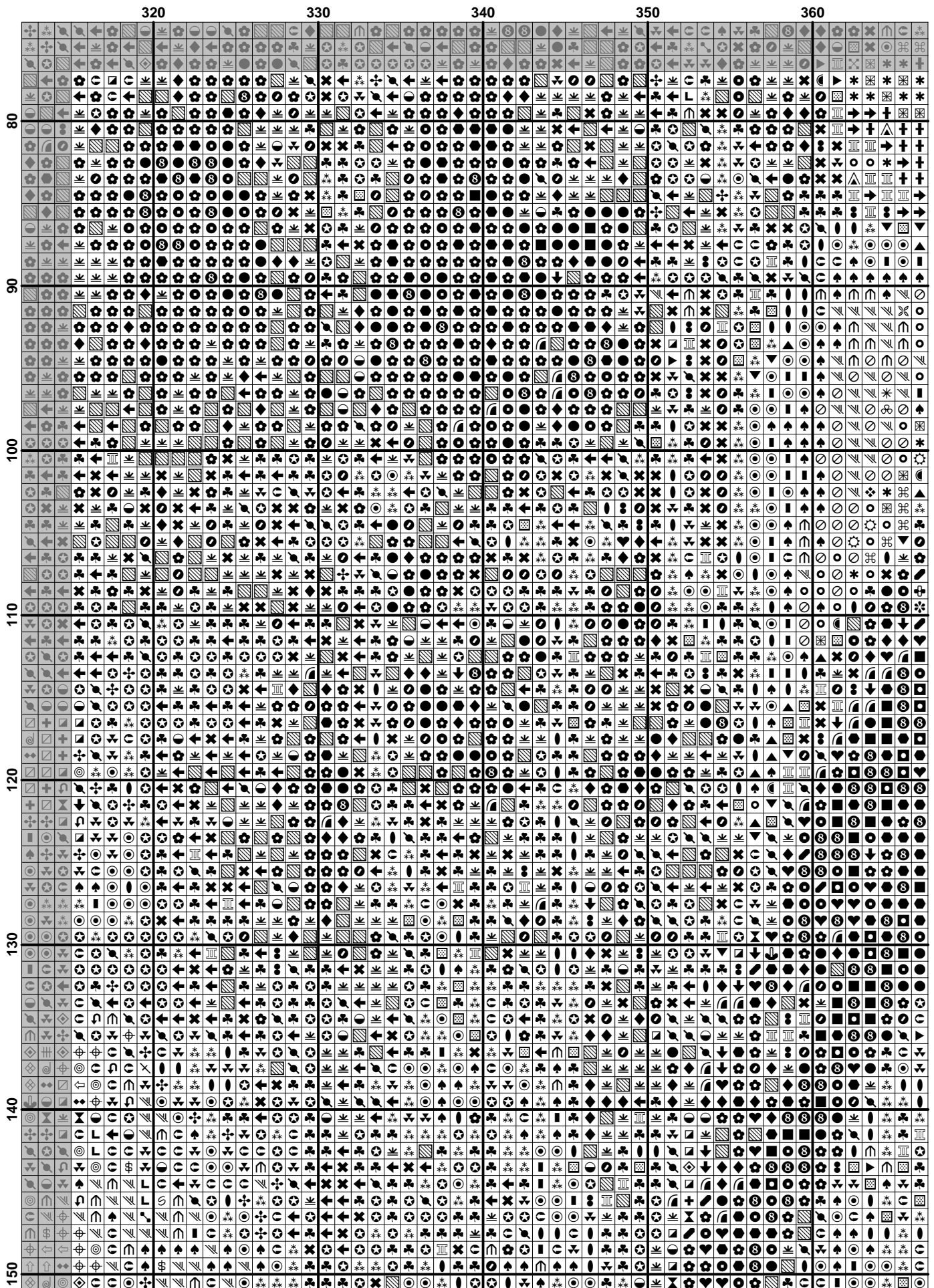
$$(18) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

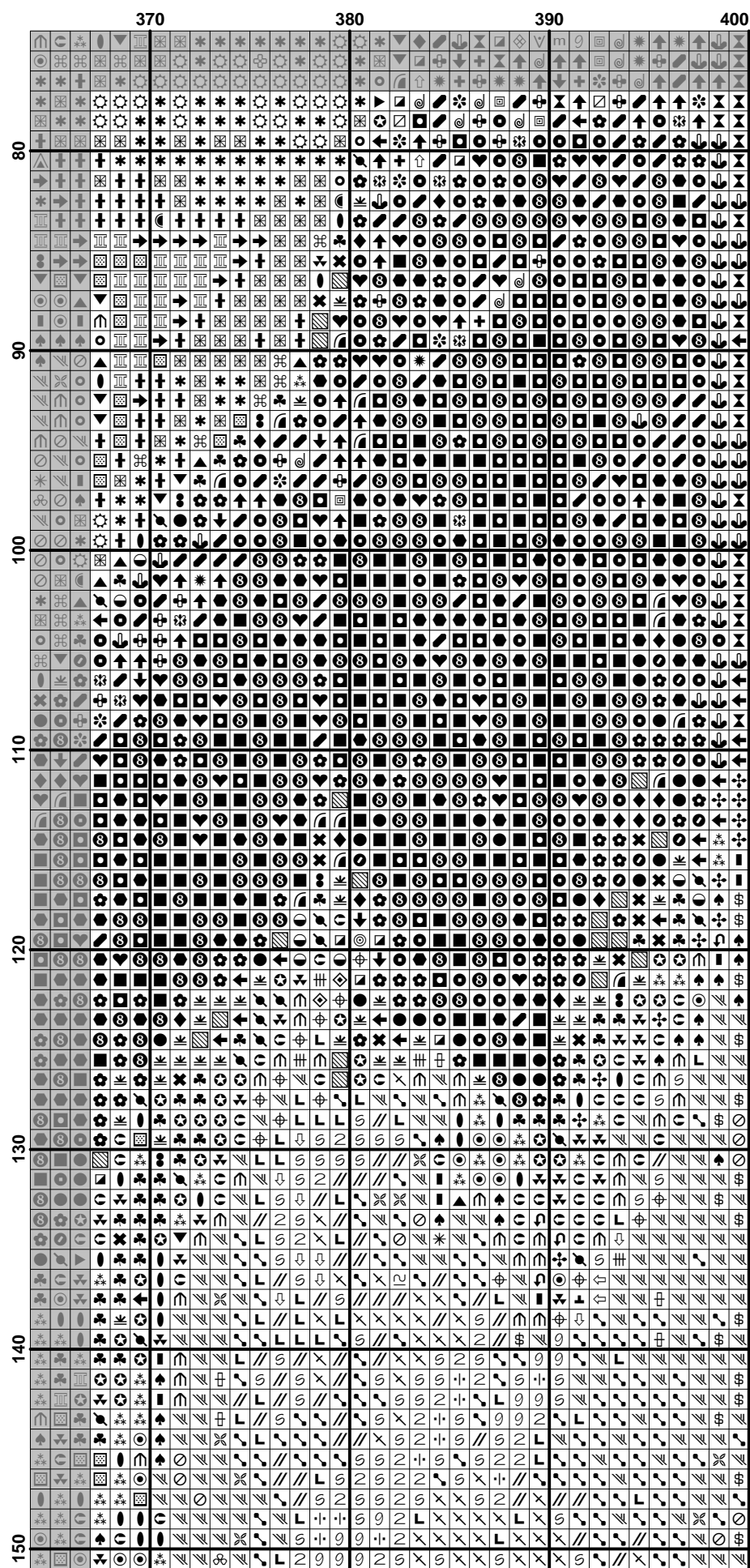
[illegible]

$$(20) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (21)$$

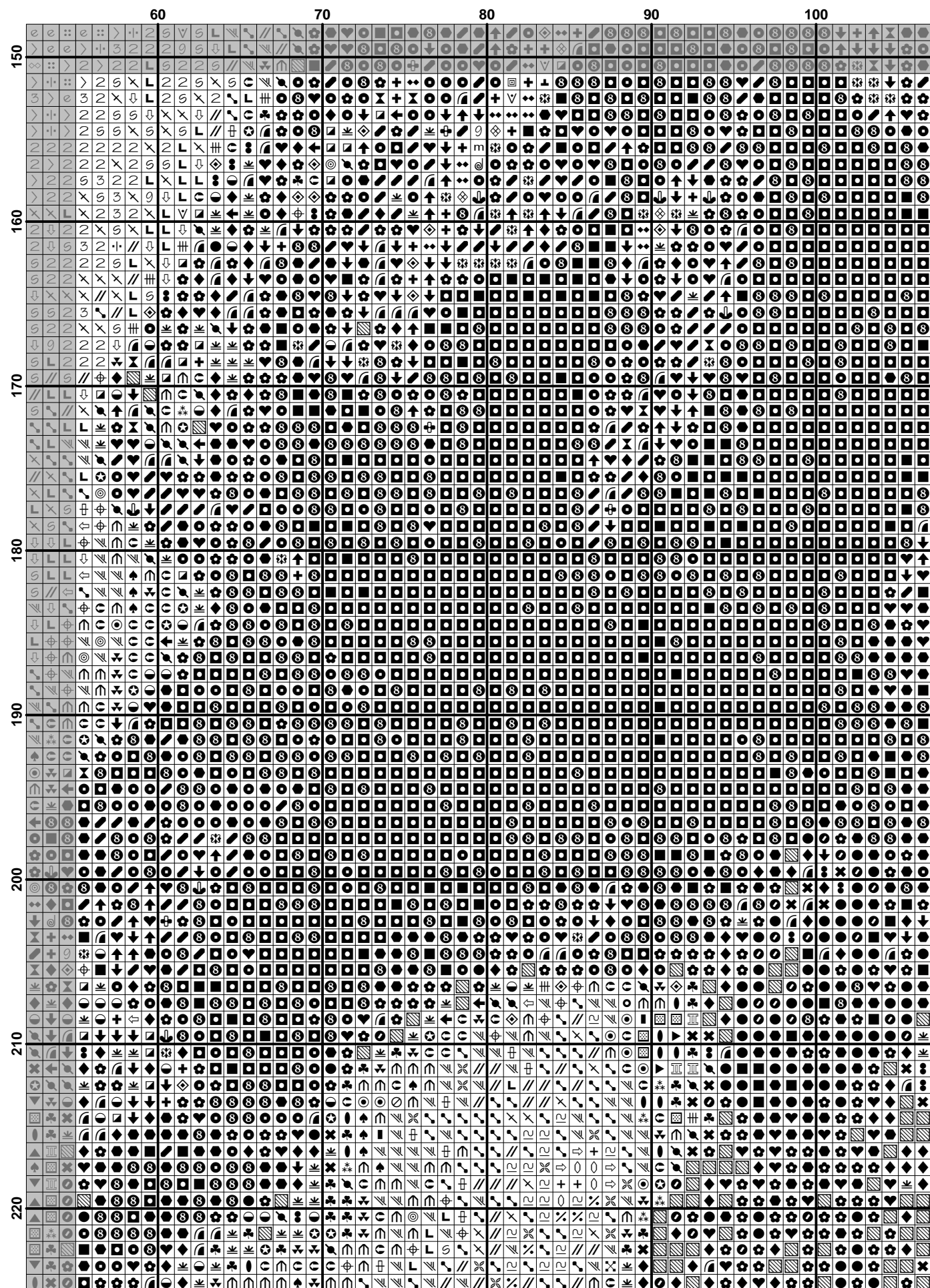
$$(21) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (22)$$

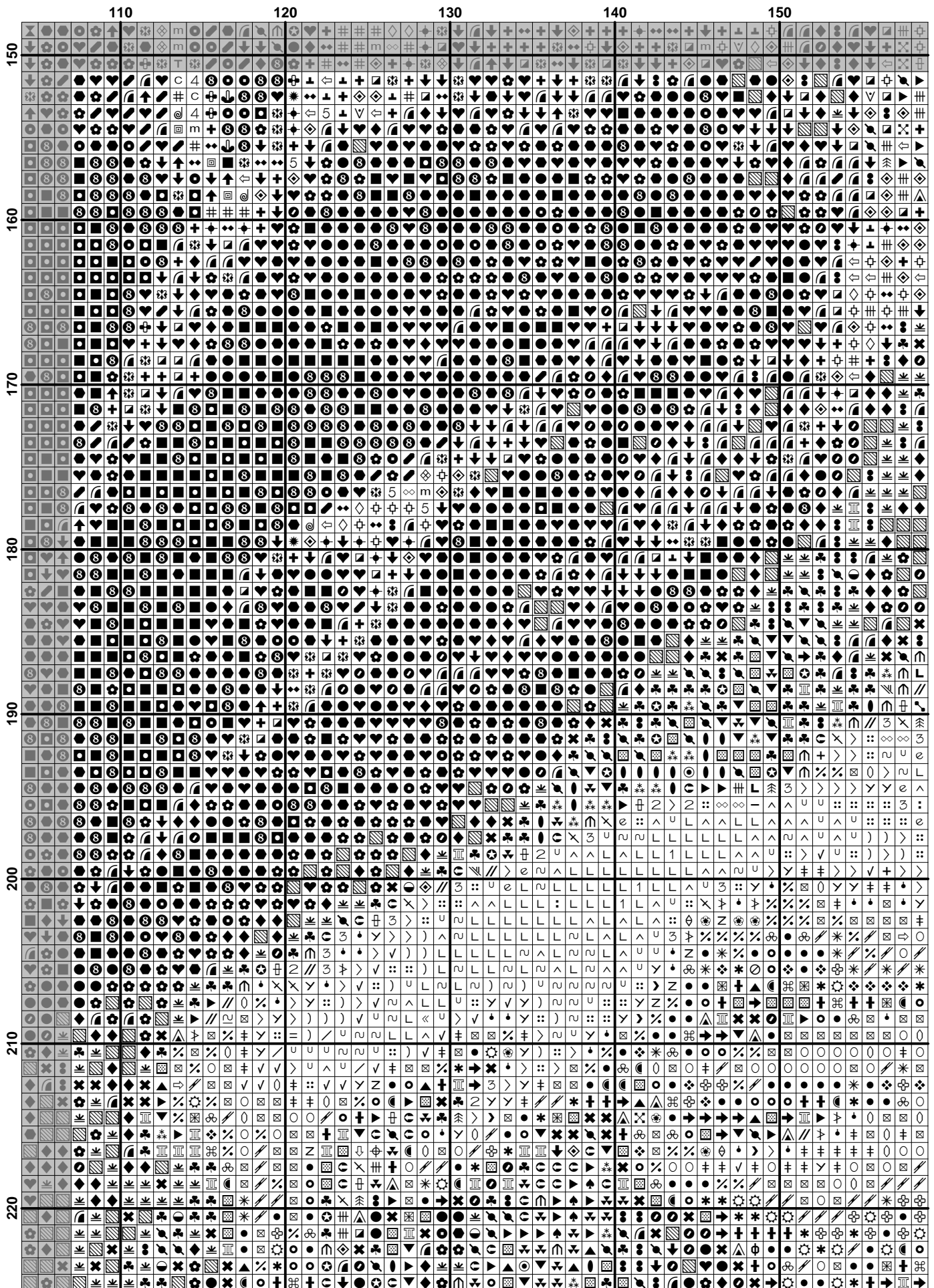
	260	270	280	290	300	310
80
90
100
110
120
130
140
150



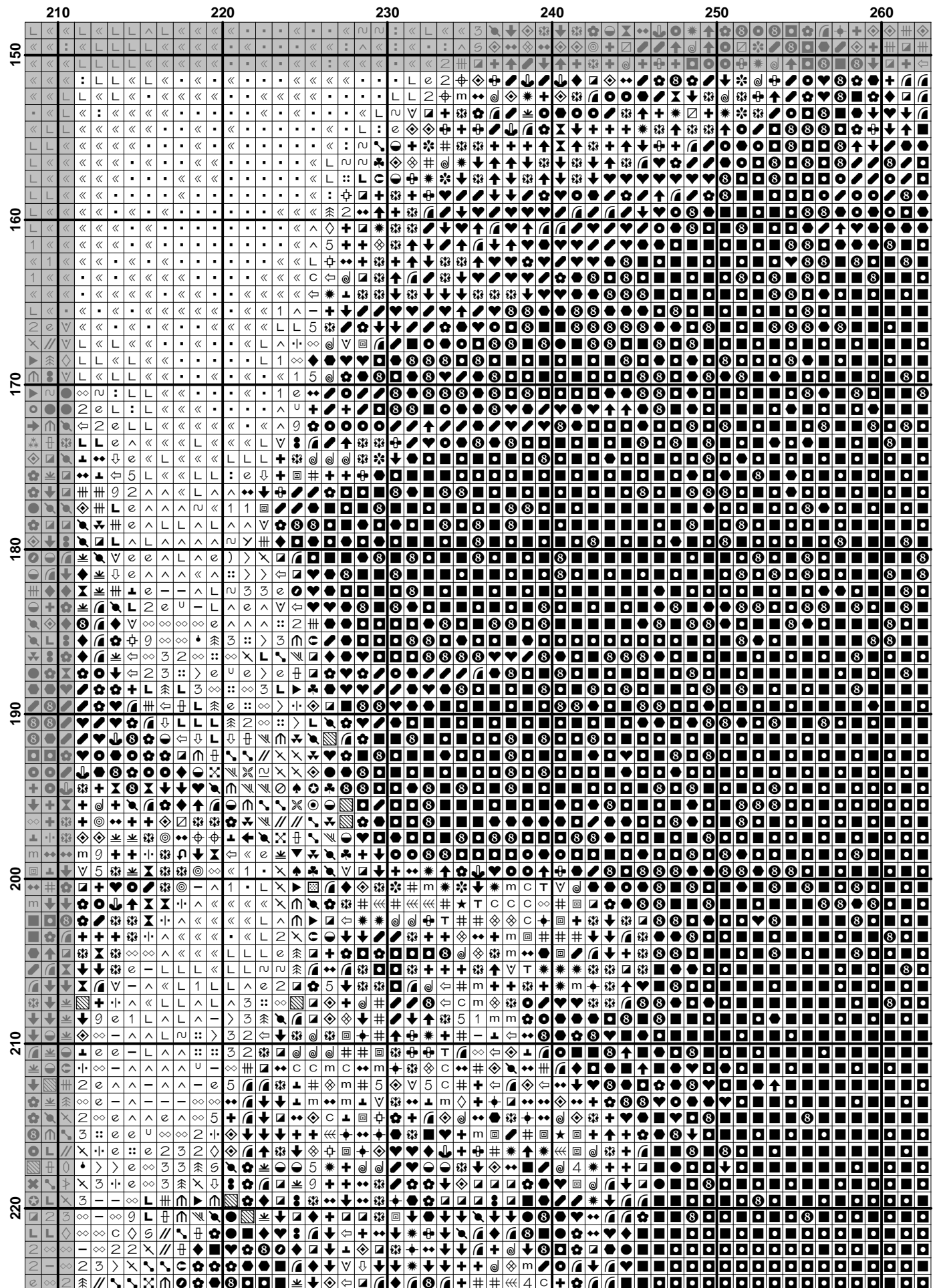


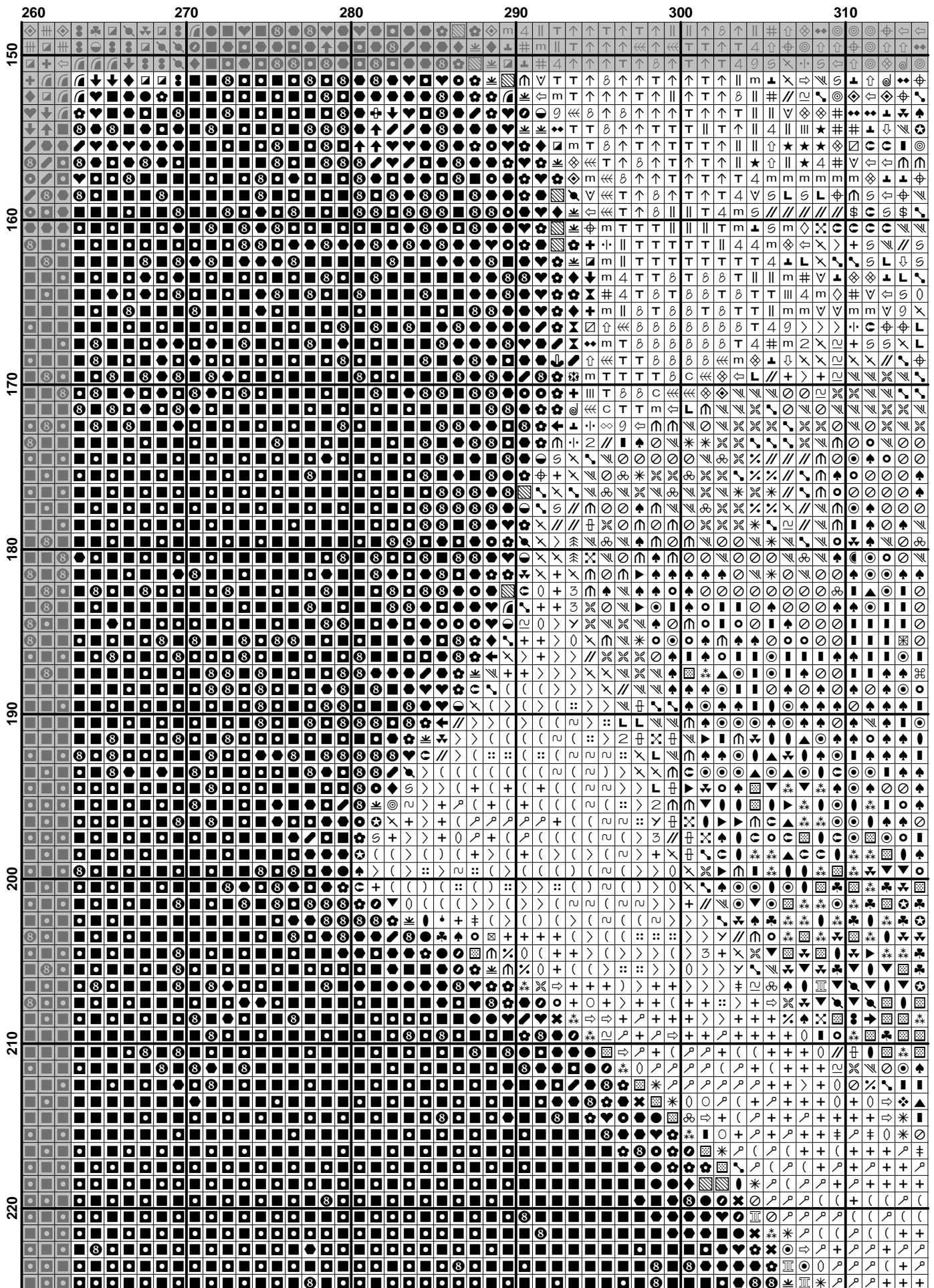
$$(25) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (26)$$

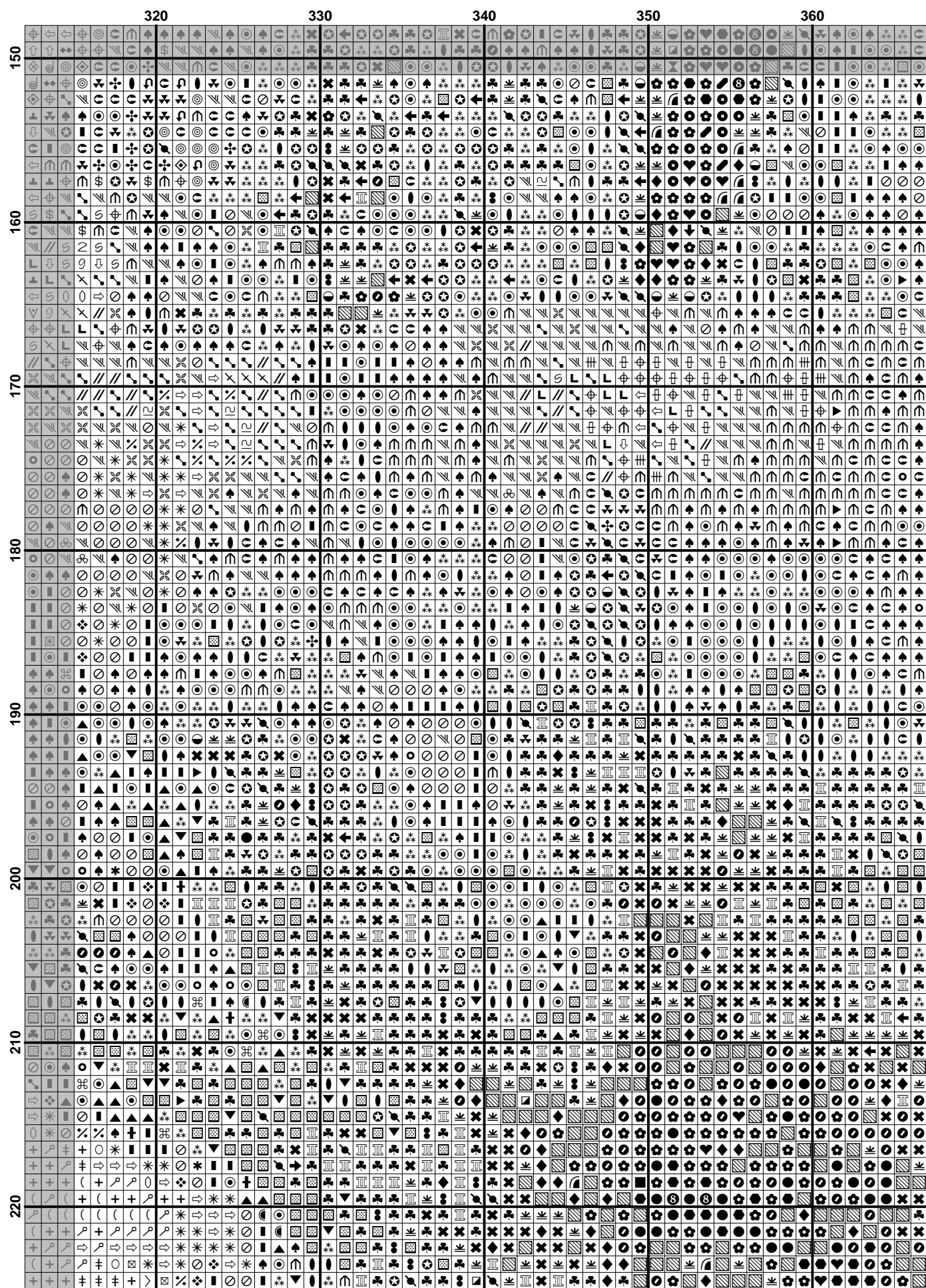


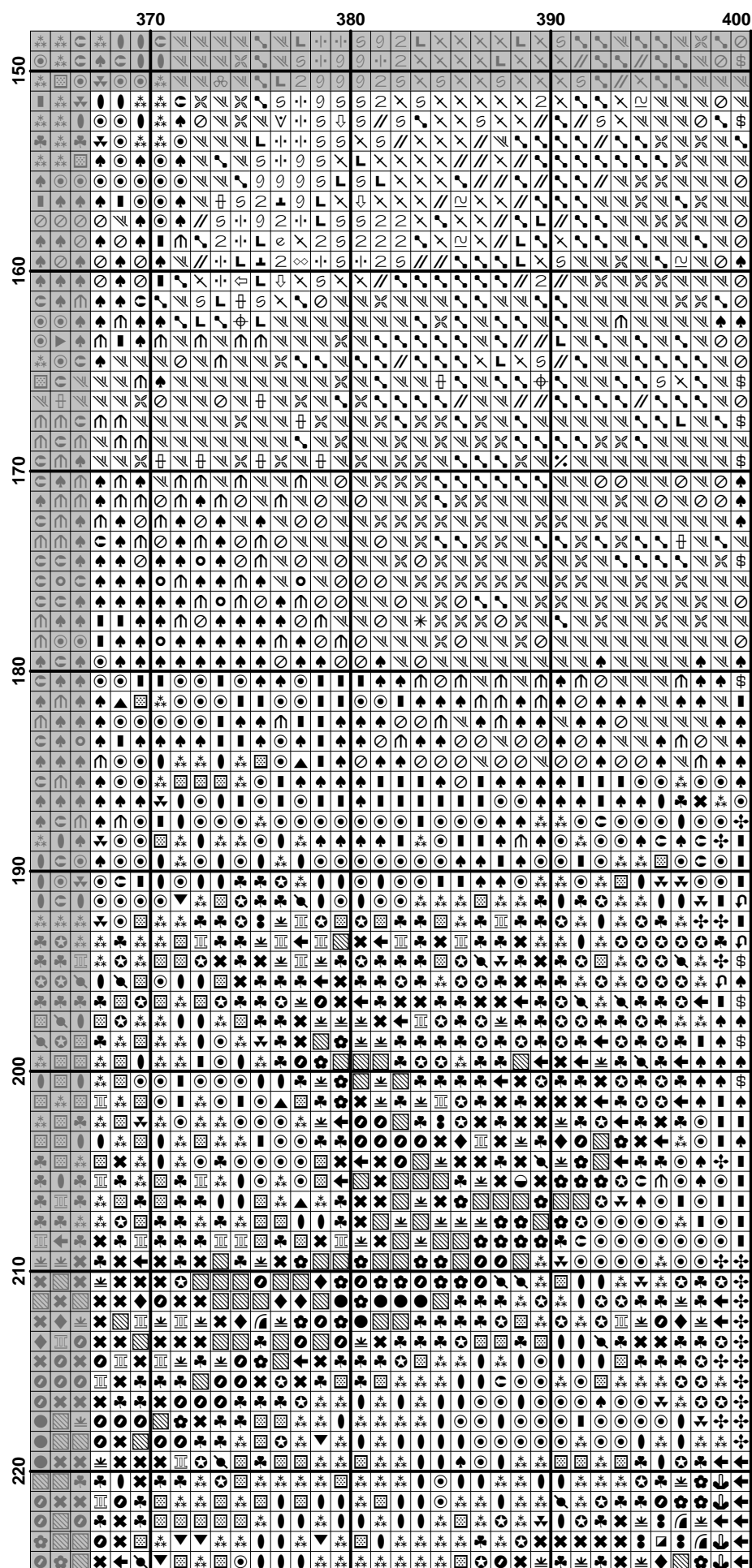


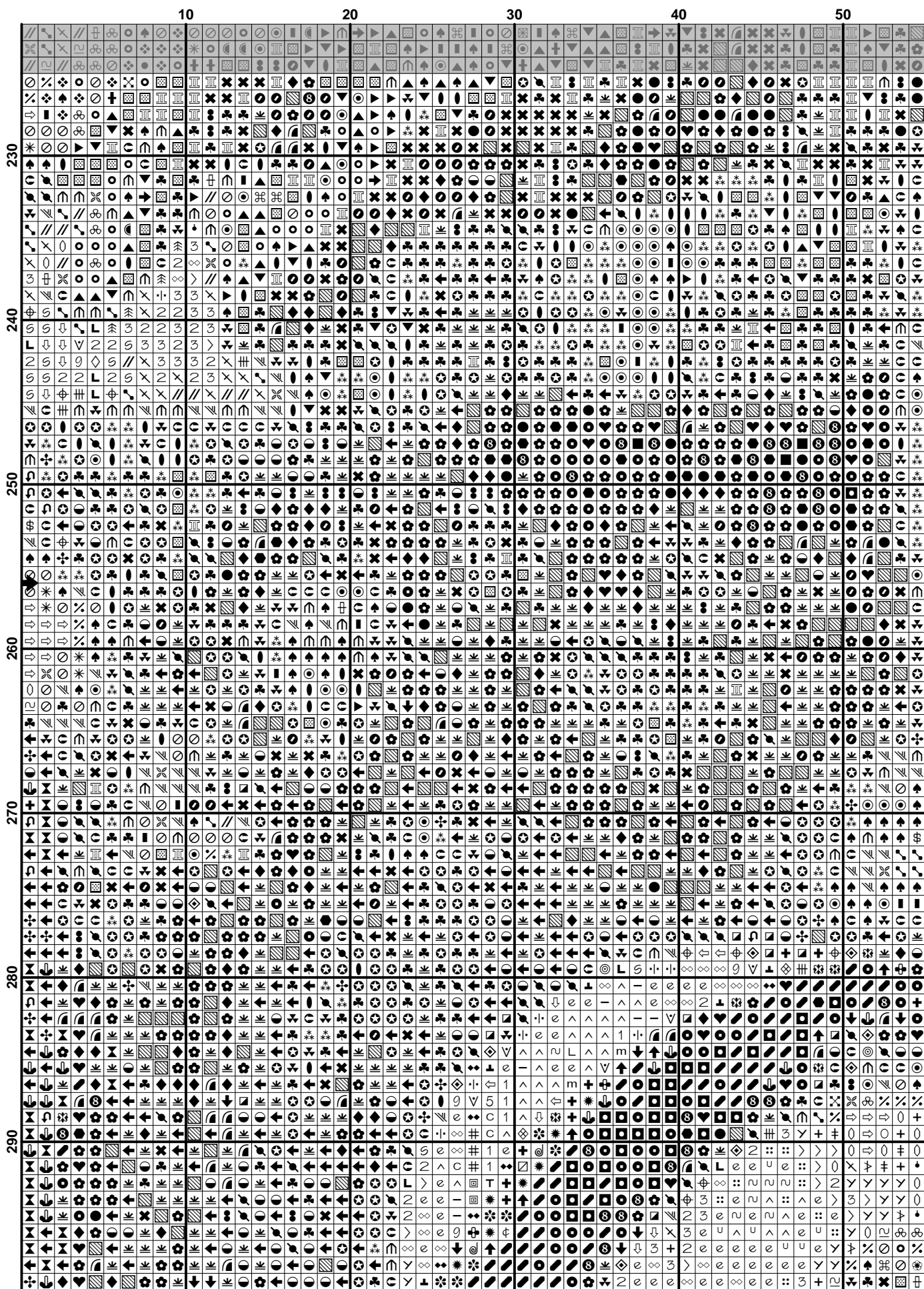
$$(28) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (29)$$

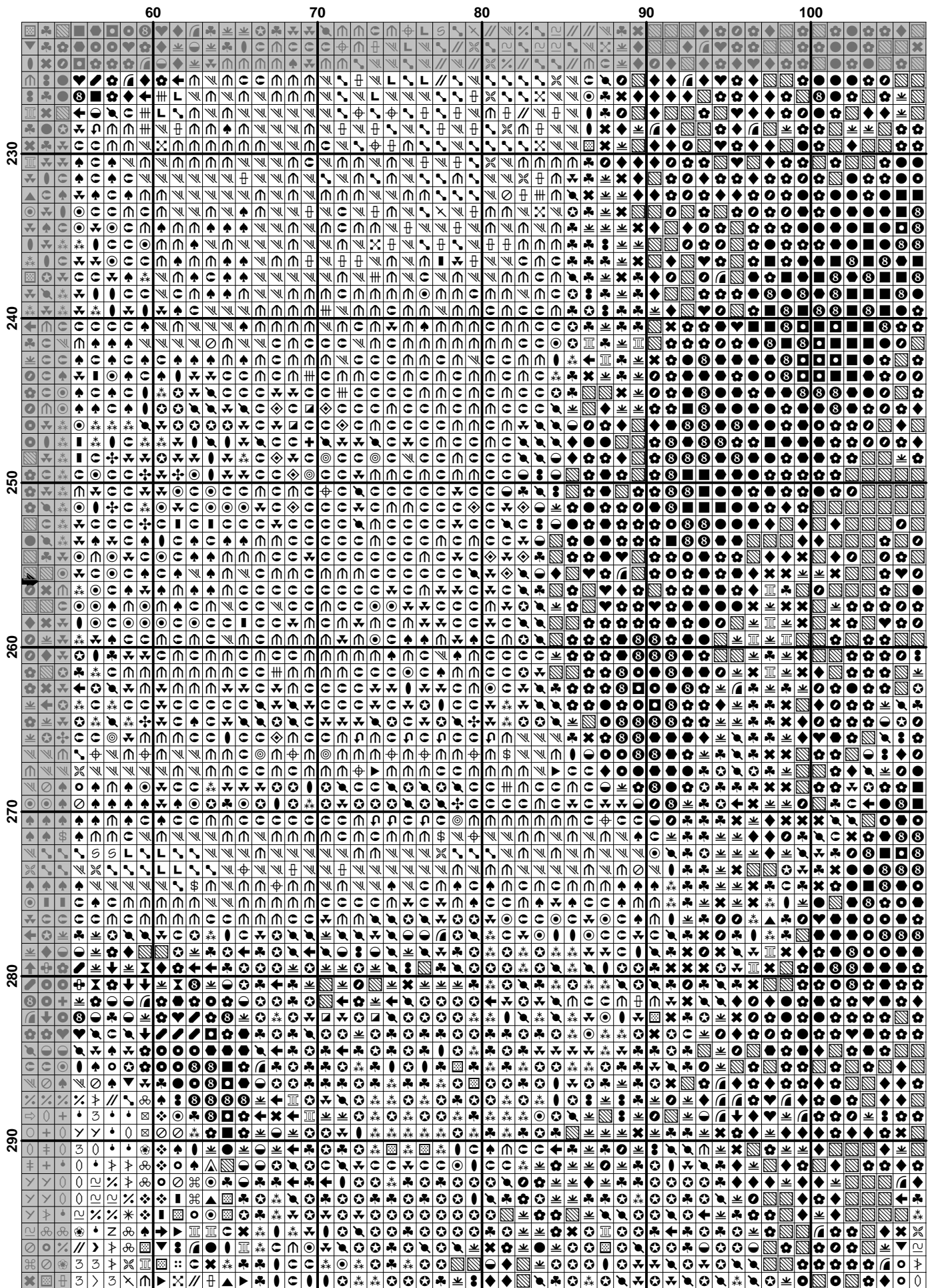


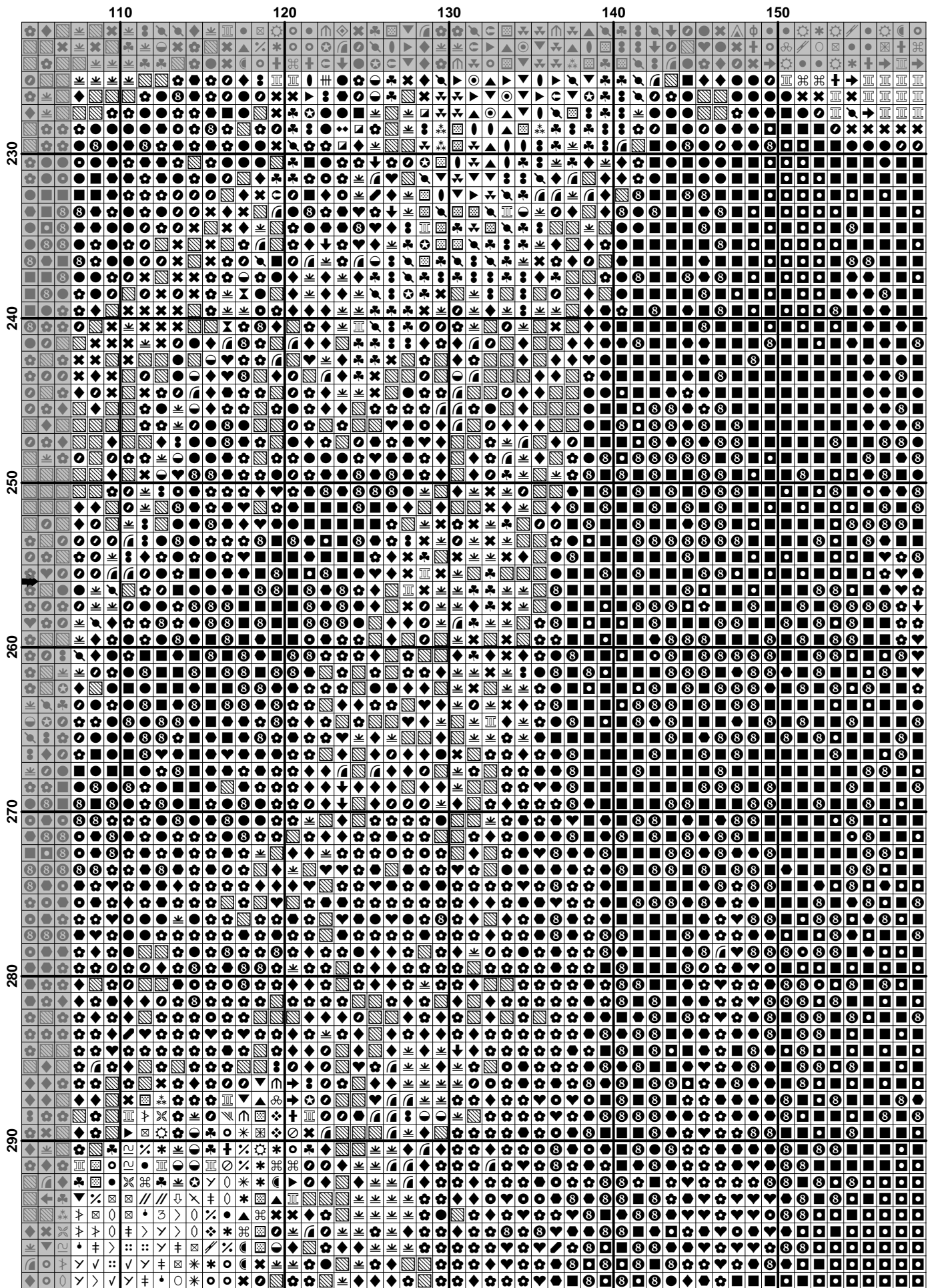


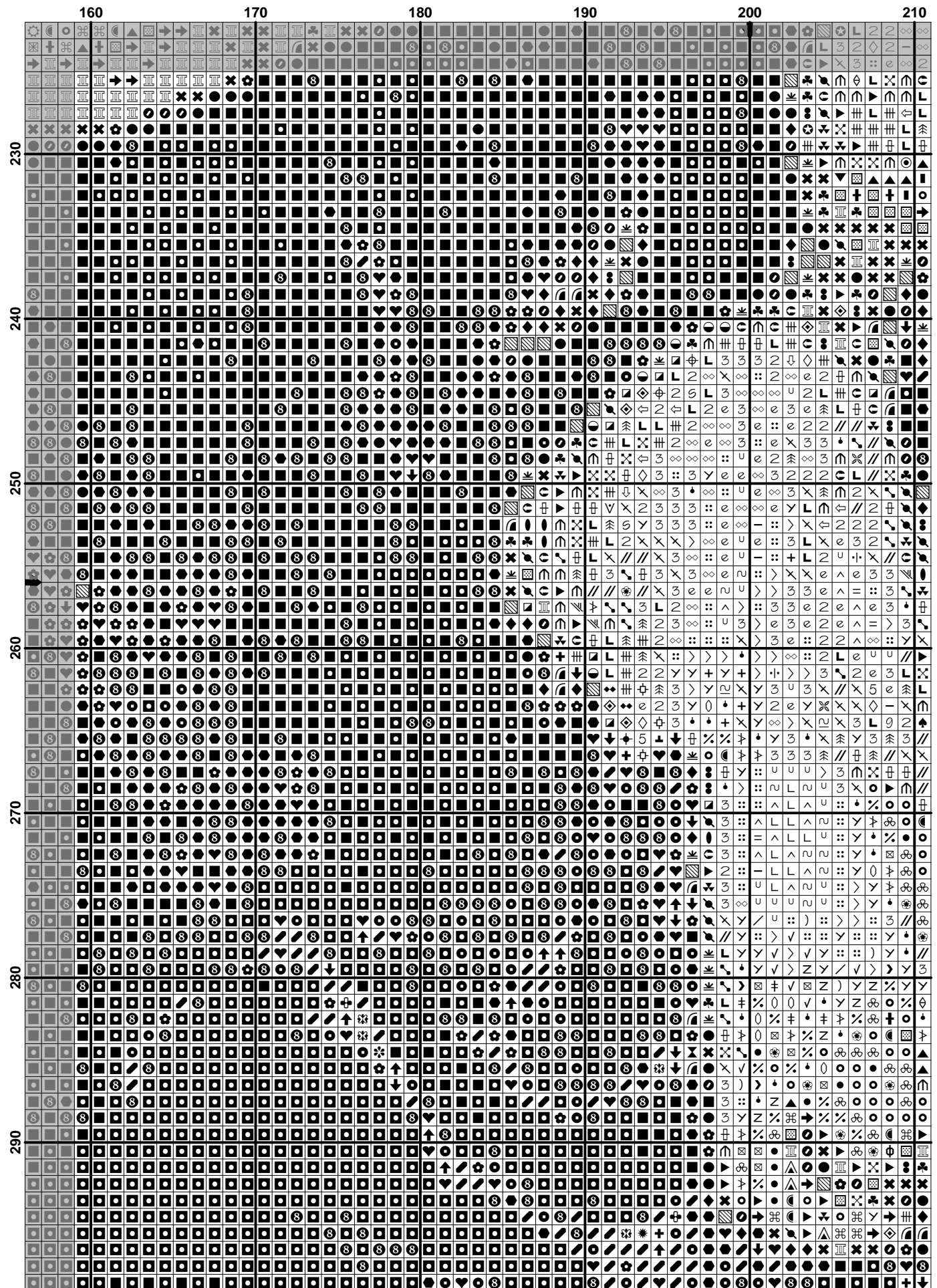


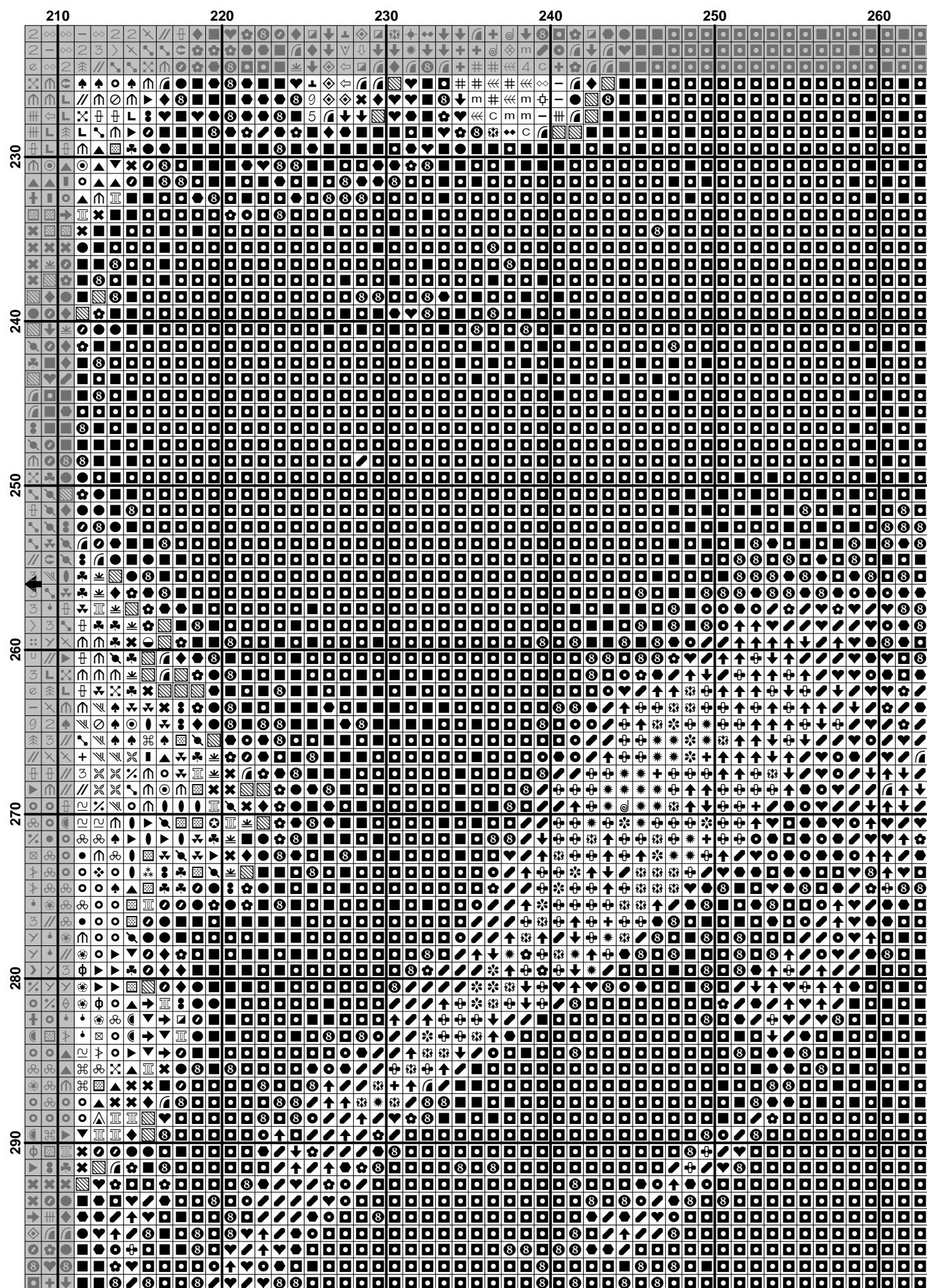


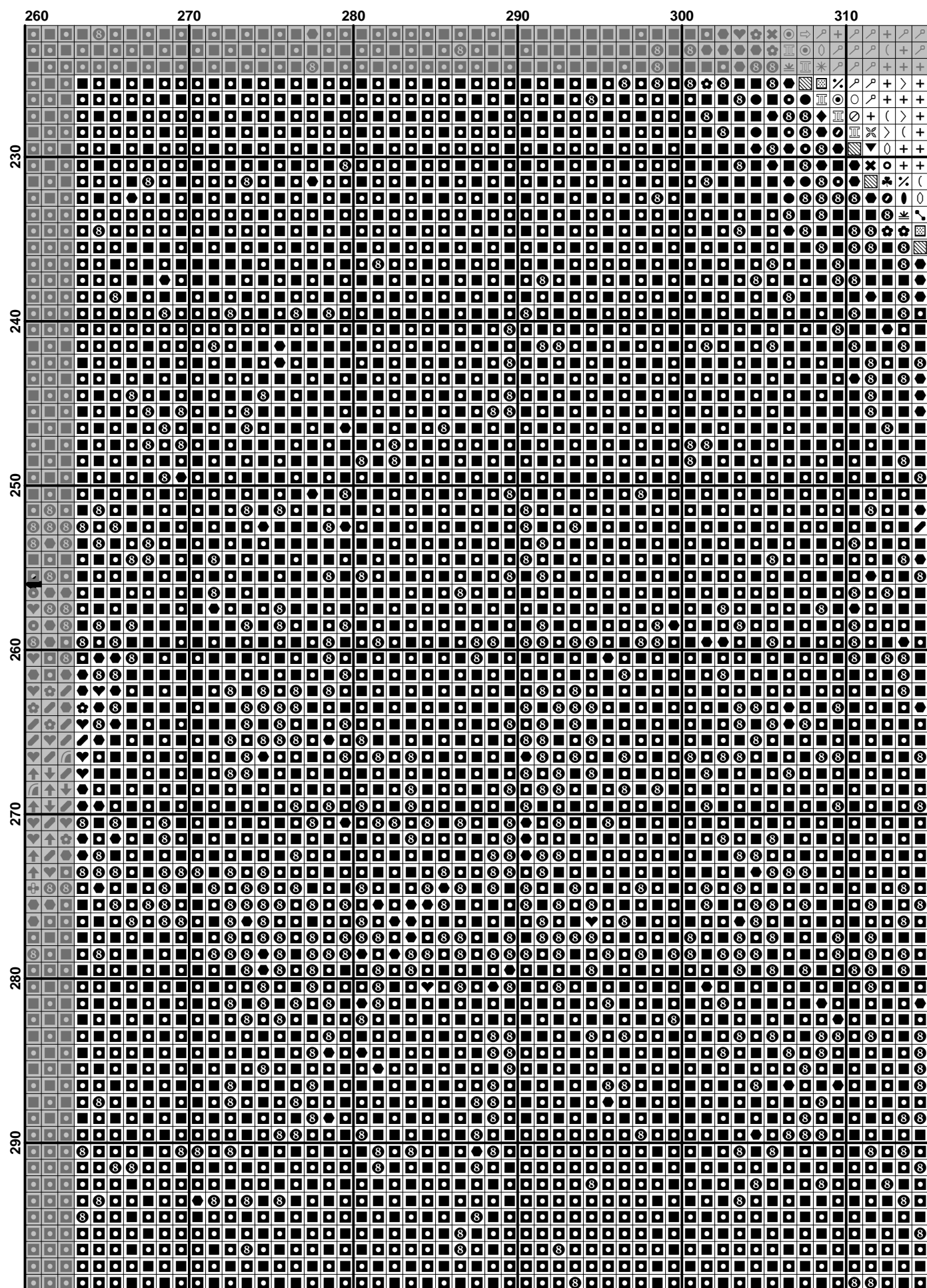


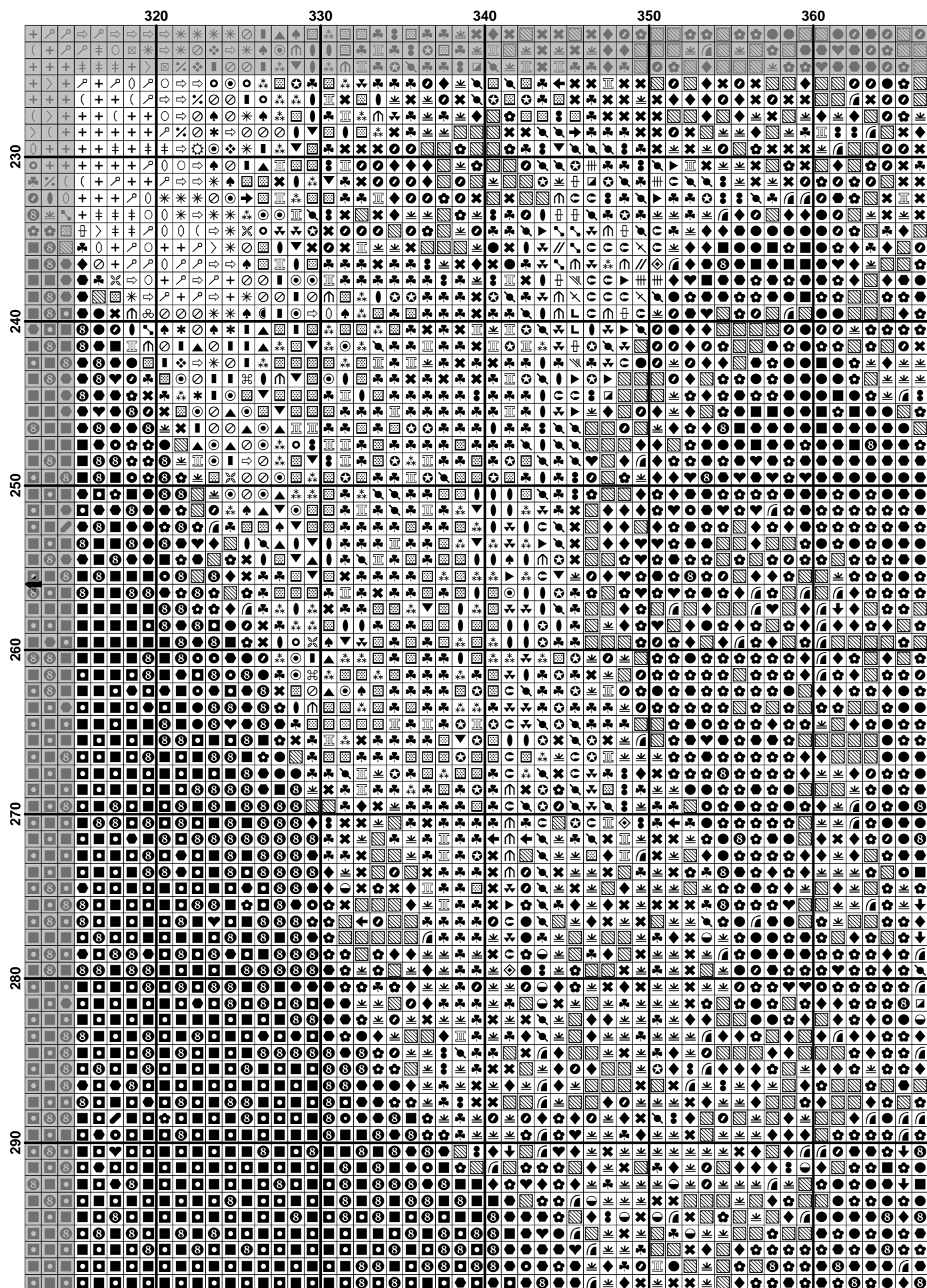


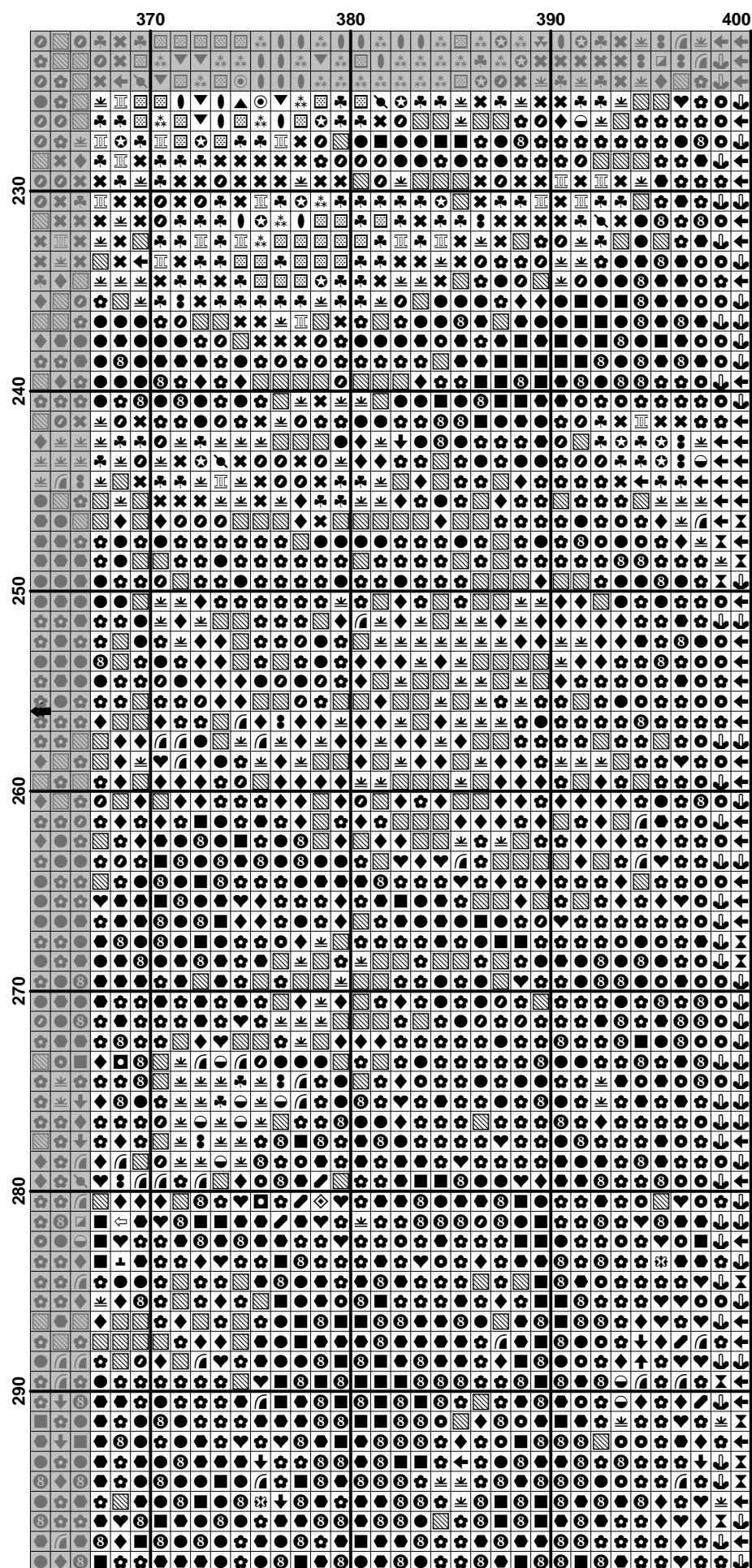






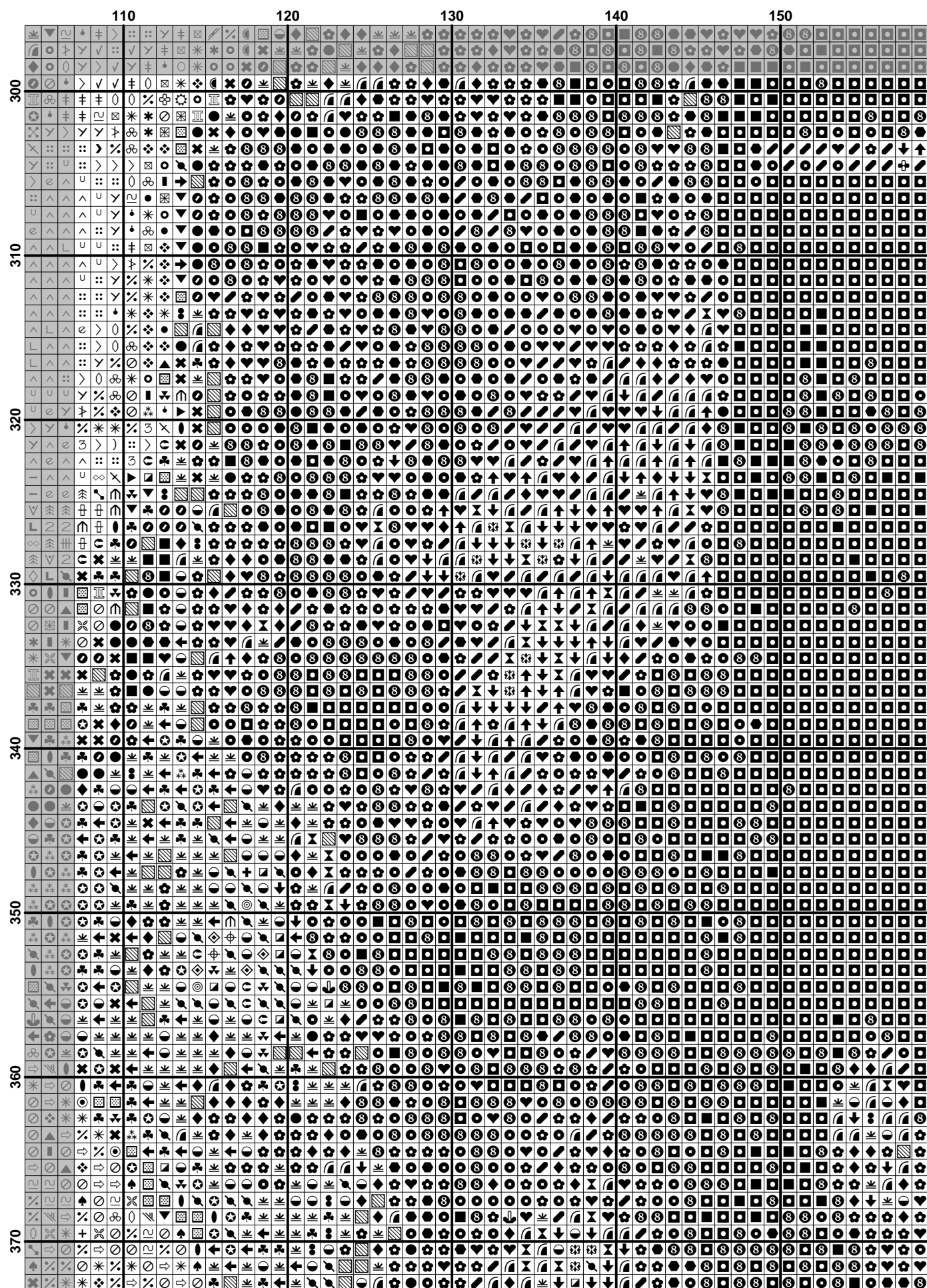


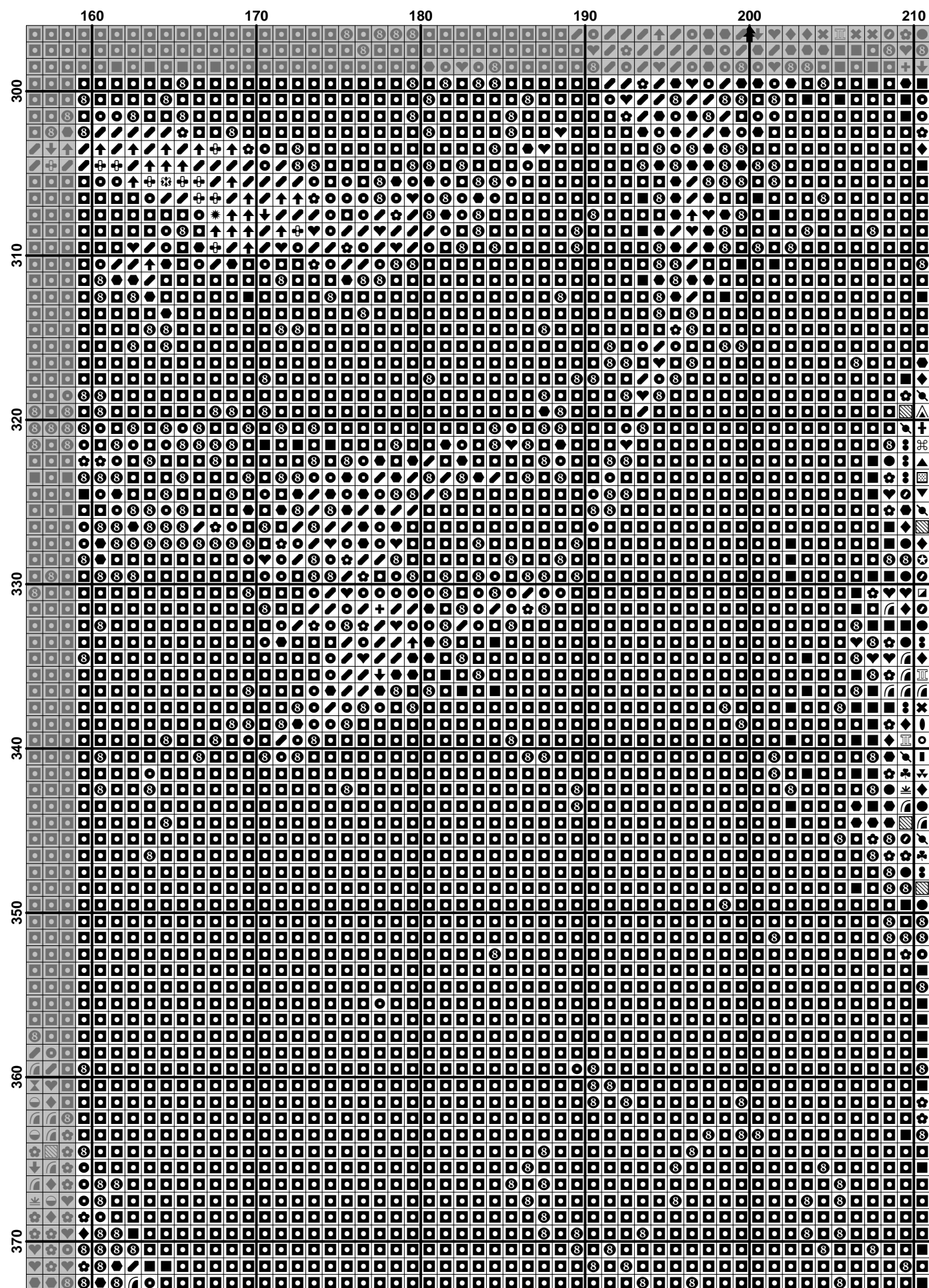


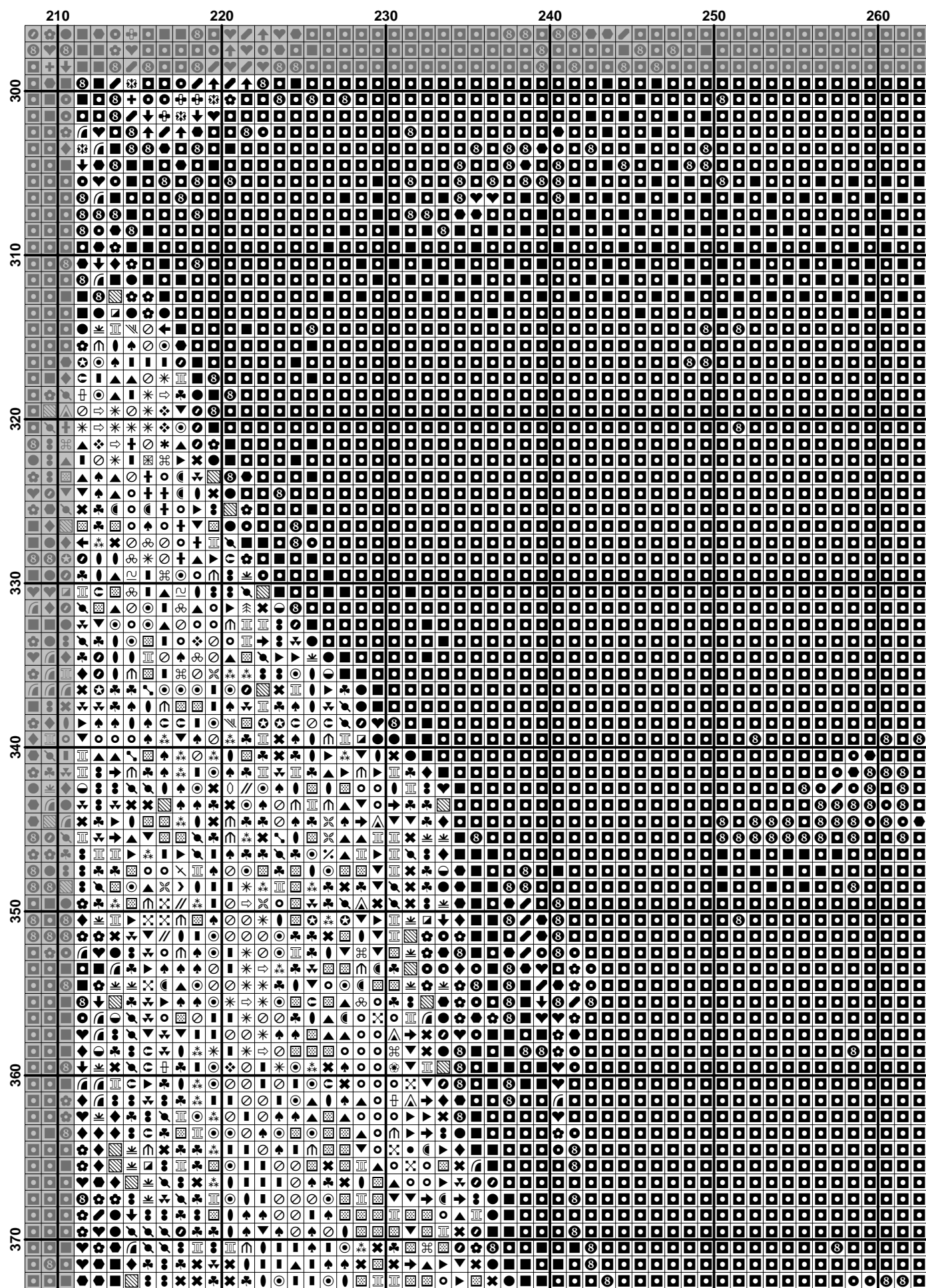


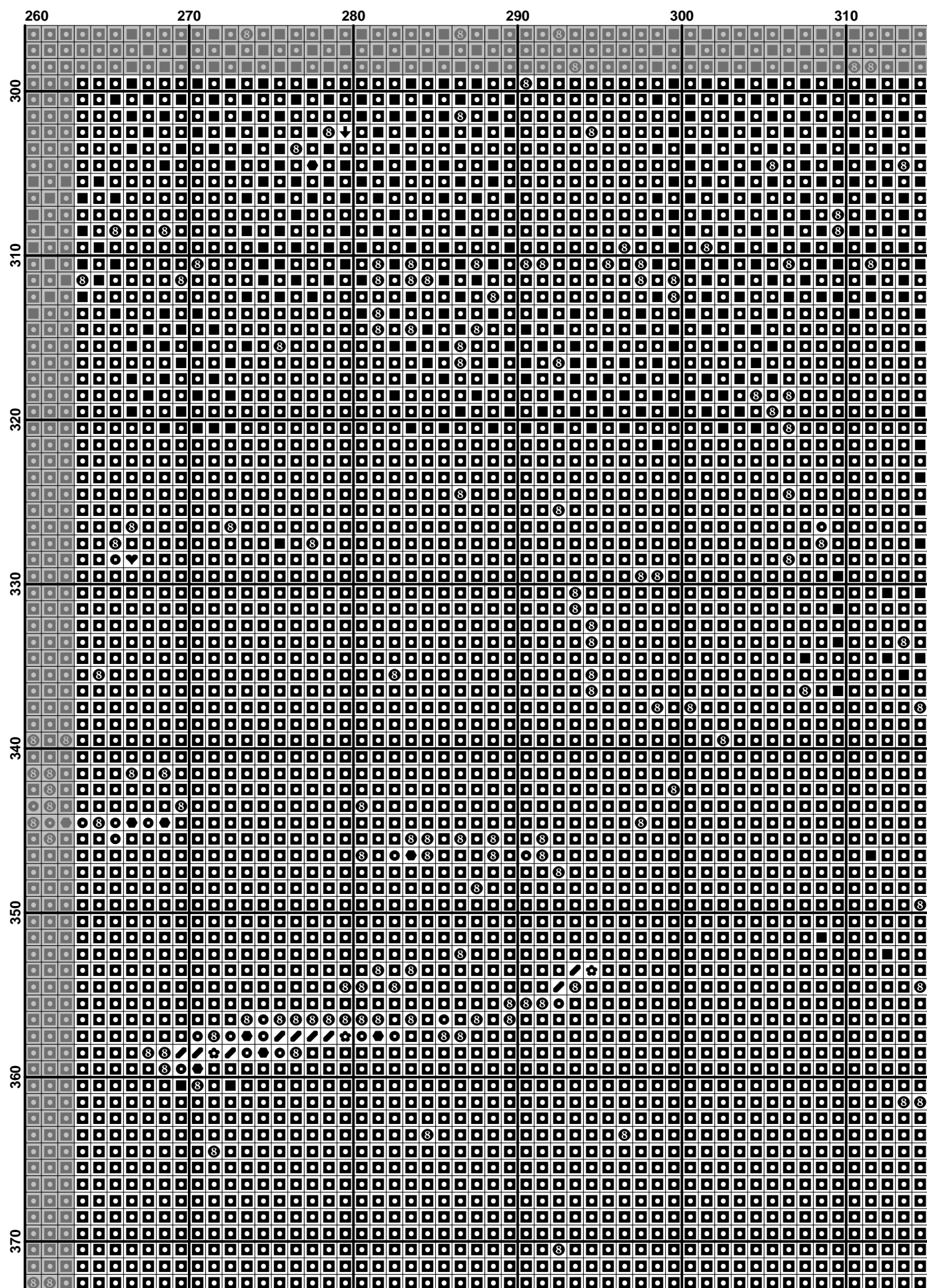
	10	20	30	40	50
300	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑
310	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑
320	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑
330	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑
340	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑
350	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑
360	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑
370	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑

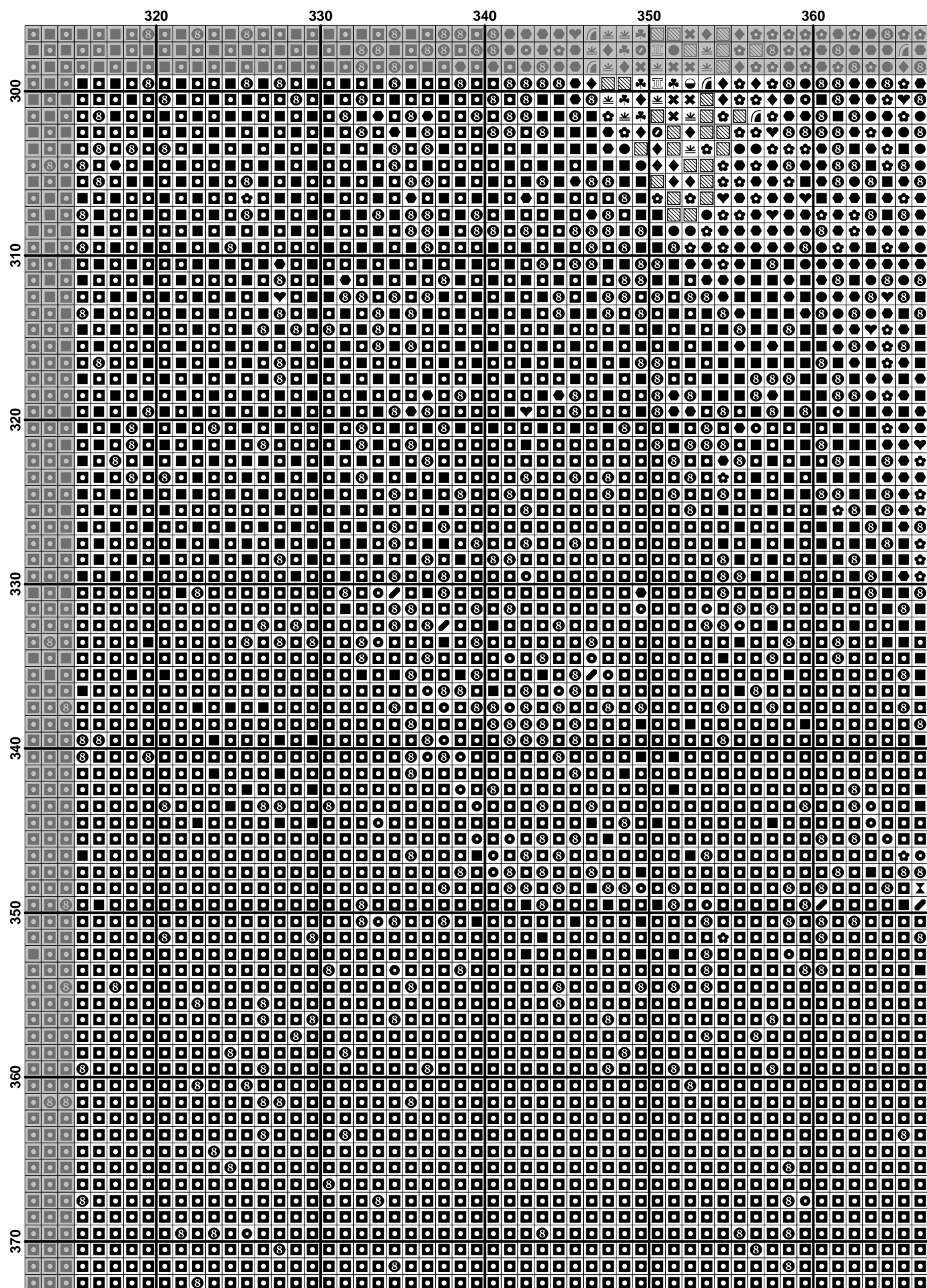
	60	70	80	90	100
300
310
320
330
340
350
360
370

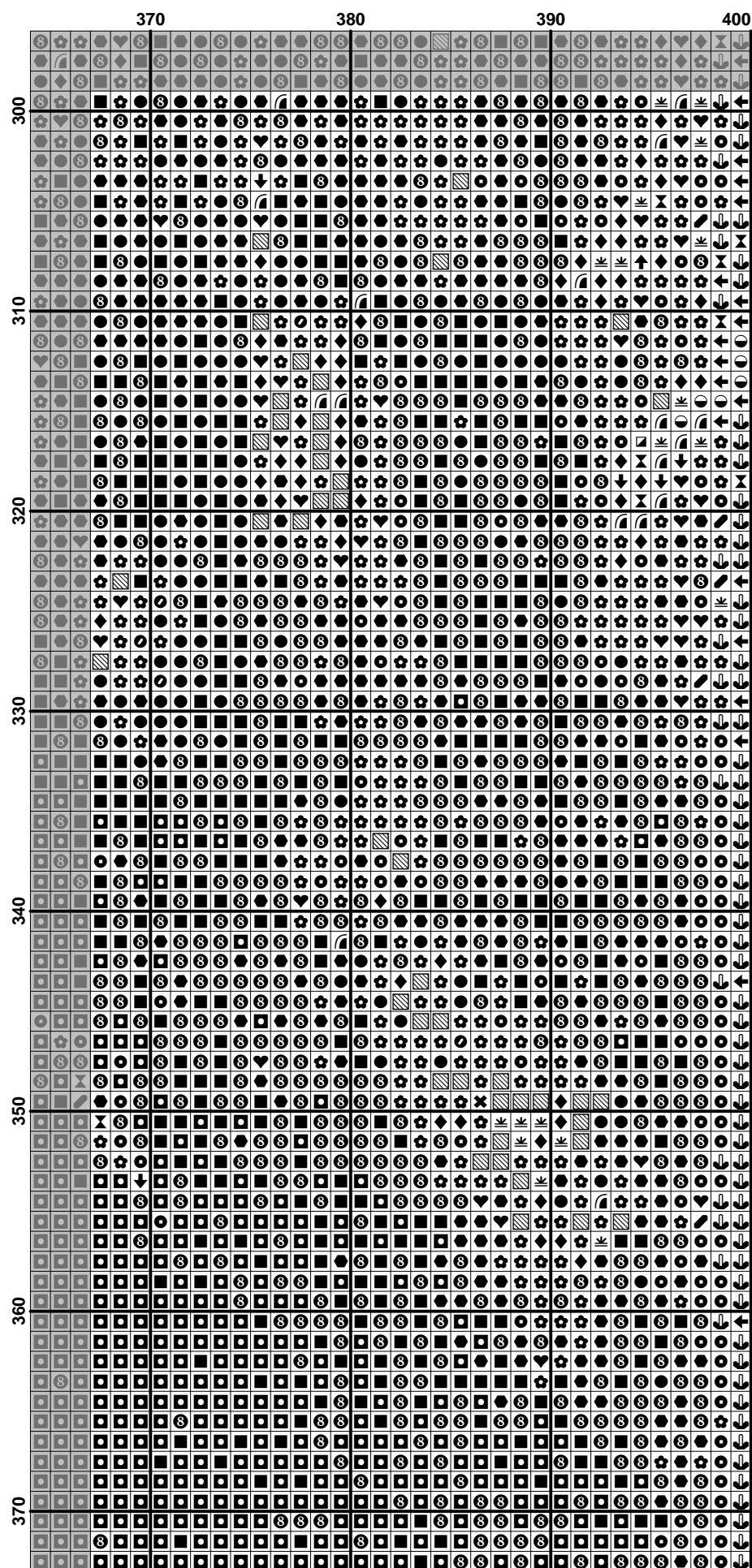


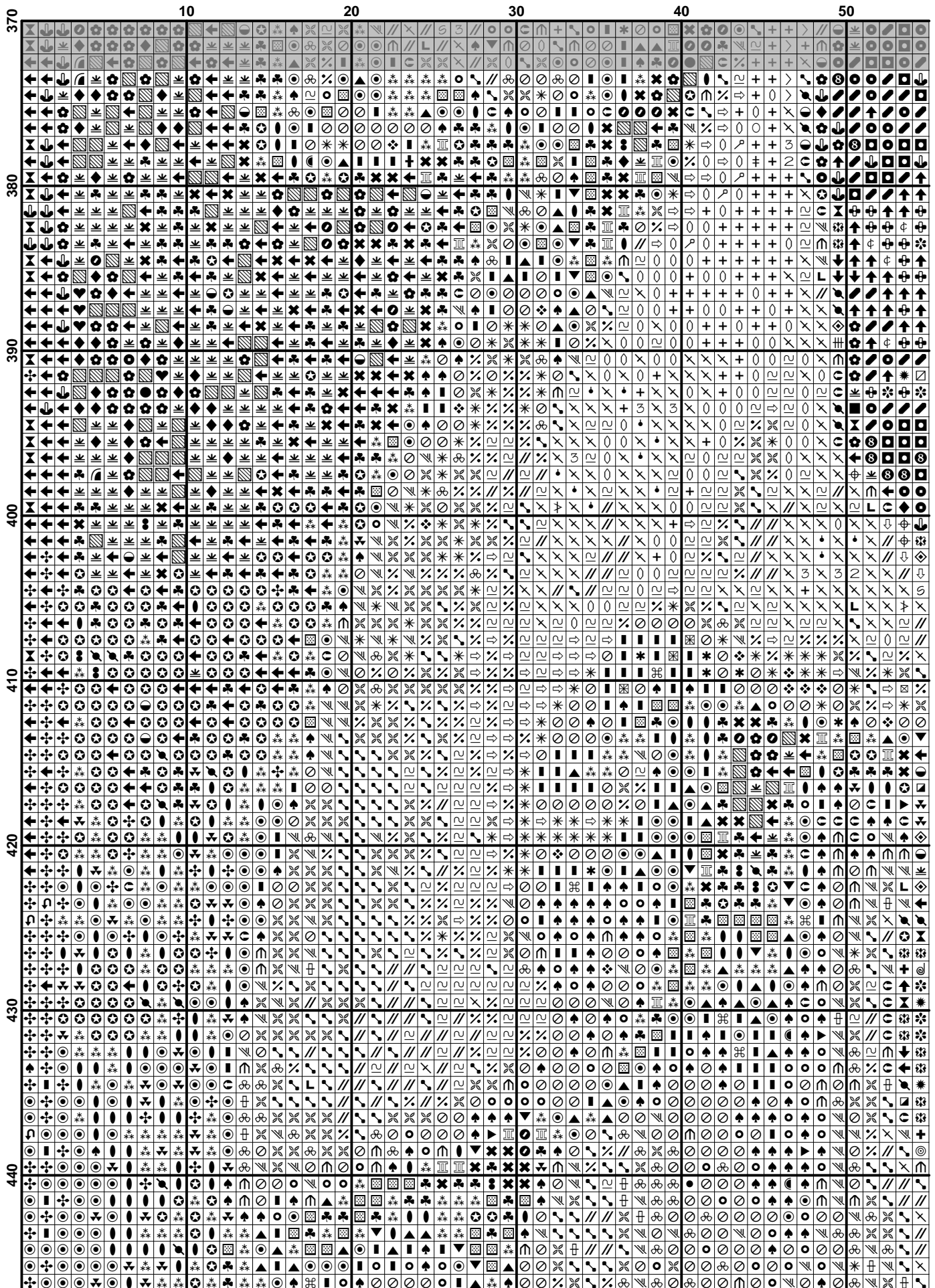












	60	70	80	90	100
370					
380					
390					
400					
410					
420					
430					
440					

