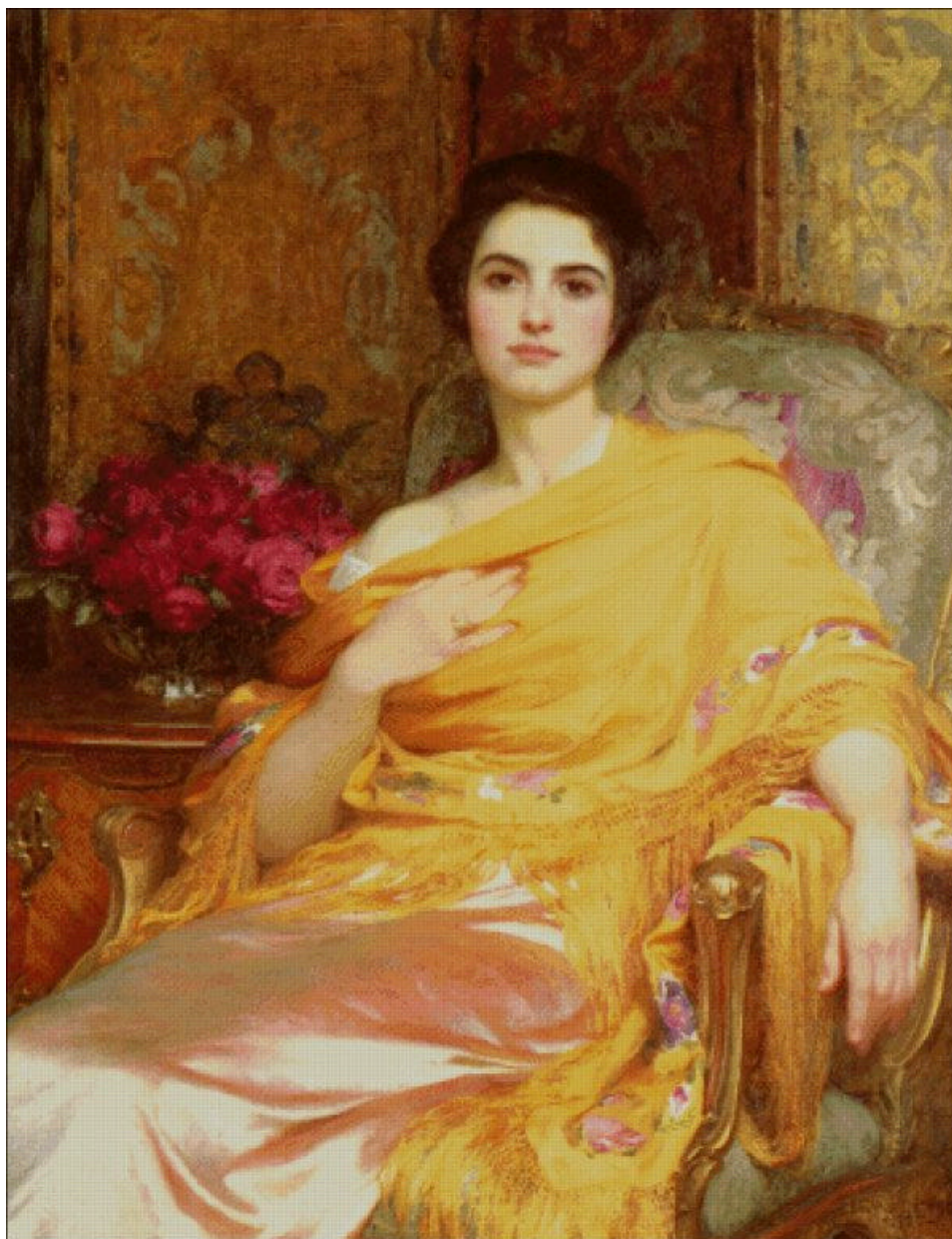


687 Portrait of Elsa



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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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Portrait of Elsa

Stitch Count	
Horizontal:	370
Vertical:	479

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:	67	26.35	87	34.07	59	23.06	76	29.81	53	20.5	68	26.5
Including Margins:	83	33	103	41	75	30	92	36	69	27	84	33
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	93	36.89	121	47.69	78	30.74	101	39.74	39	15.37	50	19.87
Including Margins:	109	43	137	54	94	37	117	46	55	22	66	26
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	37	14.75	48	19.07	36	14.18	46	18.34	34	13.66	45	17.66
Including Margins:	53	21	64	26	52	21	62	25	50	20	61	24
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	33	13.17	43	17.03	31	12.29	40	15.89	29	11.52	38	14.9
Including Margins:	49	20	59	24	47	19	56	22	45	18	54	21

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
卅	223	Shell Pink-LT
	224	Shell Pink-VY LT
♥	300	Mahogany-VY DK
▲	301	Mahogany-MD
⬤	316	Antique Mauve-MD
↑	326	Rose-VY DK
☒	352	Coral-LT
√	353	Peach
■	370	Mustard-MD
茶	402	Mahogany-VY LT
⬤	420	Hazelnut Brown-DK
+	434	Brown-LT
⊗	435	Brown-VY LT
☉	436	Tan
∞	543	Beige Brown-UL VY LT
⊗	610	Drab Brown-DK
⊕	611	Drab Brown
›	613	Drab Brown-VY LT
⌘	632	Desert Sand-UL VY DK
⊖	640	Beige Gray-VY DK
m	644	Beige Gray-MD
△	722	Orange Spice-LT
♂	726	Topaz-LT
+	739	Tan-UL VY LT
×	742	Tangerine-LT
♂	743	Yellow-MD
—	744	Yellow-Pale
«	746	Off White
τ	754	Peach-LT
∪	758	Terra Cotta-VY LT
♂	780	Topaz-UL VY DK
⊖	782	Topaz-DK
♂	801	Coffee Brown-DK
♦	816	Garnet

=	822	Beige Gray-LT
☉	830	Golden Olive-DK
☉	834	Golden Olive-VY LT
**	839	Beige Brown-DK
⬤	898	Coffee Brown-VY DK
♂	919	Red Copper
♂	962	Dusty Rose-MD
⊖	963	Dusty Rose-UL VY LT
♣	975	Golden Brown-DK
♠	977	Golden Brown-LT
⇒	3045	Yellow Beige-DK
↑	3053	Green Gray
u	3078	Golden Yellow-VY LT
⬤	3371	Black Brown
×	3685	Mauve-DK
↓	3721	Shell Pink-DK
⬤	3726	Antique Mauve-DK
L	3770	Tawny-VY LT
▶	3772	Desert Sand-VY DK
⊖	3776	Mahogany-LT
↑	3821	Straw
±	3822	Straw-LT
(3823	Yellow-UL Pale
3	3824	Apricot-LT
♂	3828	Hazelnut Brown
♂	3829	Old Gold-VY DK
⊗	3831	Raspberry-DK
⊖	3832	Raspberry-MD
⊕	3853	Autumn Gold-DK
↓	3854	Autumn Gold-MD
⊖	3856	Mahogany-UL VY LT
♂	3857	Rosewood-DK
▲	3862	Mocha Beige-DK
♂	3864	Mocha Beige-LT
▪	3865	Winter White
::	3866	Mocha Brown-UL VY LT
↔	Ecru	Ecru

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

Symbol	DMC1	Name1	DMC2	Name2
❖	3045	Yellow Beige-DK	834	Golden Olive-VY LT
▲	632	Desert Sand-UL VY DK	3857	Rosewood-DK
❖	3832	Raspberry-MD	962	Dusty Rose-MD
♣	921	Copper	782	Topaz-DK
▲	738	Tan-VY LT	612	Drab Brown-LT
●	938	Coffee Brown-UL DK	300	Mahogany-VY DK
:	3823	Yellow-UL Pale	746	Off White
■	938	Coffee Brown-UL DK	3371	Black Brown
◎	370	Mustard-MD	435	Brown-VY LT
//	741	Tangerine-MD	742	Tangerine-LT
^	945	Tawny	744	Yellow-Pale
⬇	780	Topaz-UL VY DK	420	Hazelnut Brown-DK
✚	782	Topaz-DK	301	Mahogany-MD
❖	3853	Autumn Gold-DK	782	Topaz-DK
●	801	Coffee Brown-DK	938	Coffee Brown-UL DK
←	830	Golden Olive-DK	801	Coffee Brown-DK
☆	975	Golden Brown-DK	300	Mahogany-VY DK
◎	780	Topaz-UL VY DK	782	Topaz-DK
⬇	801	Coffee Brown-DK	300	Mahogany-VY DK
¼	3045	Yellow Beige-DK	738	Tan-VY LT
≡	738	Tan-VY LT	3856	Mahogany-UL VY LT
∨	3046	Yellow Beige-MD	3855	Autumn Gold-LT
¼	435	Brown-VY LT	977	Golden Brown-LT
×	3828	Hazelnut Brown	977	Golden Brown-LT
⌘	420	Hazelnut Brown-DK	301	Mahogany-MD
⑤	3371	Black Brown	300	Mahogany-VY DK
❖	839	Beige Brown-DK	640	Beige Gray-VY DK
●	839	Beige Brown-DK	938	Coffee Brown-UL DK
▼	3726	Antique Mauve-DK	610	Drab Brown-DK
c	353	Peach	3823	Yellow-UL Pale
1	3770	Tawny-VY LT	3823	Yellow-UL Pale
◇	301	Mahogany-MD	3828	Hazelnut Brown
2	613	Drab Brown-VY LT	945	Tawny
◇	612	Drab Brown-LT	739	Tan-UL VY LT
田	612	Drab Brown-LT	3864	Mocha Beige-LT
+	3721	Shell Pink-DK	3828	Hazelnut Brown
⌘	402	Mahogany-VY LT	3778	Terra Cotta-LT
✱	3721	Shell Pink-DK	370	Mustard-MD
φ	420	Hazelnut Brown-DK	3828	Hazelnut Brown
*	3828	Hazelnut Brown	610	Drab Brown-DK
=	3828	Hazelnut Brown	3778	Terra Cotta-LT
☒	3778	Terra Cotta-LT	3726	Antique Mauve-DK
⬆	612	Drab Brown-LT	3726	Antique Mauve-DK
L	402	Mahogany-VY LT	372	Mustard-LT
†	975	Golden Brown-DK	420	Hazelnut Brown-DK
)	746	Off White	353	Peach
★	3064	Desert Sand	402	Mahogany-VY LT
∴	3824	Apricot-LT	353	Peach
4	352	Coral-LT	3856	Mahogany-UL VY LT
■	921	Copper	435	Brown-VY LT
❖	834	Golden Olive-VY LT	402	Mahogany-VY LT
0	3854	Autumn Gold-MD	3822	Straw-LT
≡	834	Golden Olive-VY LT	977	Golden Brown-LT

>	726	Topaz-LT	744	Yellow-Pale
5	742	Tangerine-LT	743	Yellow-MD
/	3078	Golden Yellow-VY LT	353	Peach
†	977	Golden Brown-LT	742	Tangerine-LT
9	743	Yellow-MD	3854	Autumn Gold-MD
\$	741	Tangerine-MD	3853	Autumn Gold-DK
III	3853	Autumn Gold-DK	742	Tangerine-LT
●	921	Copper	741	Tangerine-MD
v	402	Mahogany-VY LT	3854	Autumn Gold-MD
†	3825	Pumpkin-Pale	3832	Raspberry-MD
Z	722	Orange Spice-LT	3825	Pumpkin-Pale
+	3825	Pumpkin-Pale	743	Yellow-MD
⦿	780	Topaz-UL VY DK	326	Rose-VY DK
➔	221	Shell Pink-VY DK	780	Topaz-UL VY DK
⦿	919	Red Copper	301	Mahogany-MD
▲	919	Red Copper	921	Copper
*	722	Orange Spice-LT	3853	Autumn Gold-DK
✕	3053	Green Gray	3864	Mocha Beige-LT
✕	612	Drab Brown-LT	640	Beige Gray-VY DK
☉	3832	Raspberry-MD	3350	Dusty Rose-UL DK
✕	3831	Raspberry-DK	3832	Raspberry-MD
⦿	221	Shell Pink-VY DK	3857	Rosewood-DK
♦♦	3776	Mahogany-LT	436	Tan
†	3064	Desert Sand	962	Dusty Rose-MD
↘	316	Antique Mauve-MD	224	Shell Pink-VY LT
⦿	3053	Green Gray	370	Mustard-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	505	198	481	189	433	170
223	Shell Pink-LT	37	14	35	13	32	12
224	Shell Pink-VY LT	97	38	92	36	83	32
300	Mahogany-VY DK	2072	815	1973	776	1776	699
301	Mahogany-MD	1498	589	1426	561	1284	505
316	Antique Mauve-MD	59	23	56	22	51	20
326	Rose-VY DK	221	87	210	82	189	74
352	Coral-LT	419	164	399	157	359	141
353	Peach	580	228	552	217	497	195
370	Mustard-MD	639	251	609	239	548	215
372	Mustard-LT	325	127	310	122	279	109
402	Mahogany-VY LT	1099	432	1046	411	942	370
420	Hazelnut Brown-DK	1934	761	1842	725	1657	652
434	Brown-LT	974	383	928	365	835	328
435	Brown-VY LT	774	304	737	290	664	261
436	Tan	291	114	277	109	249	98
543	Beige Brown-UL VY LT	55	21	52	20	47	18
610	Drab Brown-DK	379	149	361	142	324	127
611	Drab Brown	217	85	207	81	186	73
612	Drab Brown-LT	640	251	610	240	549	216
613	Drab Brown-VY LT	355	139	338	133	304	119
632	Desert Sand-UL VY DK	650	255	619	243	557	219
640	Beige Gray-VY DK	166	65	158	62	142	55
644	Beige Gray-MD	139	54	132	51	119	46
722	Orange Spice-LT	679	267	646	254	582	229
726	Topaz-LT	1700	669	1619	637	1457	573
738	Tan-VY LT	489	192	466	183	419	164
739	Tan-UL VY LT	477	187	454	178	409	161
741	Tangerine-MD	179	70	171	67	154	60
742	Tangerine-LT	997	392	949	373	854	336
743	Yellow-MD	2734	1076	2604	1025	2344	922
744	Yellow-Pale	3144	1237	2995	1179	2695	1061
746	Off White	2160	850	2058	810	1852	729
754	Peach-LT	266	104	253	99	228	89
758	Terra Cotta-VY LT	304	119	290	114	261	102
780	Topaz-UL VY DK	1849	727	1761	693	1585	624
782	Topaz-DK	1371	539	1306	514	1175	462
801	Coffee Brown-DK	1079	424	1027	404	924	363
816	Garnet	362	142	345	135	311	122
822	Beige Gray-LT	61	24	58	22	52	20
830	Golden Olive-DK	445	175	423	166	381	150
834	Golden Olive-VY LT	872	343	830	326	747	294
839	Beige Brown-DK	396	155	377	148	339	133
898	Coffee Brown-VY DK	86	33	82	32	74	29
919	Red Copper	332	130	317	124	285	112
921	Copper	573	225	546	214	491	193
938	Coffee Brown-UL DK	561	220	534	210	481	189
945	Tawny	491	193	467	183	421	165
962	Dusty Rose-MD	82	32	78	30	70	27
963	Dusty Rose-UL VY LT	14	5	13	5	12	4
975	Golden Brown-DK	1860	732	1771	697	1594	627
977	Golden Brown-LT	1055	415	1004	395	904	355
3045	Yellow Beige-DK	740	291	705	277	634	249

3046	Yellow Beige-MD	127	50	121	47	109	42
3053	Green Gray	541	212	515	202	463	182
3064	Desert Sand	128	50	122	48	110	43
3078	Golden Yellow-VY LT	310	122	295	116	265	104
3350	Dusty Rose-UL DK	25	9	24	9	22	8
3371	Black Brown	316	124	301	118	271	106
3685	Mauve-DK	72	28	68	26	61	24
3721	Shell Pink-DK	273	107	260	102	234	92
3726	Antique Mauve-DK	63	24	60	23	54	21
3770	Tawny-VY LT	139	54	132	51	119	46
3772	Desert Sand-VY DK	38	14	37	14	33	12
3776	Mahogany-LT	315	124	300	118	270	106
3778	Terra Cotta-LT	99	38	94	37	85	33
3821	Straw	33	12	31	12	28	11
3822	Straw-LT	173	68	165	64	148	58
3823	Yellow-UL Pale	943	371	898	353	808	318
3824	Apricot-LT	309	121	294	115	265	104
3825	Pumpkin-Pale	536	211	511	201	460	181
3828	Hazelnut Brown	983	387	936	368	843	331
3829	Old Gold-VY DK	201	79	191	75	172	67
3831	Raspberry-DK	160	62	152	59	137	53
3832	Raspberry-MD	207	81	197	77	177	69
3853	Autumn Gold-DK	805	316	766	301	690	271
3854	Autumn Gold-MD	1092	429	1040	409	936	368
3855	Autumn Gold-LT	127	50	121	47	109	42
3856	Mahogany-UL VY LT	696	274	663	261	596	234
3857	Rosewood-DK	739	290	704	277	633	249
3862	Mocha Beige-DK	351	138	334	131	301	118
3864	Mocha Beige-LT	518	203	493	194	444	174
3865	Winter White	55	21	52	20	47	18
3866	Mocha Brown-UL VY LT	66	25	63	24	57	22
Ecru	Ecru	54	21	51	20	46	18

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	779	306	650	255	325	128
223	Shell Pink-LT	58	22	48	18	24	9
224	Shell Pink-VY LT	149	58	125	48	62	24
300	Mahogany-VY DK	3197	1258	2664	1049	1332	524
301	Mahogany-MD	2311	909	1926	758	963	379
316	Antique Mauve-MD	92	36	77	30	38	15
326	Rose-VY DK	340	133	284	111	142	56
352	Coral-LT	646	254	539	212	269	106
353	Peach	895	351	746	293	373	146
370	Mustard-MD	986	387	822	323	411	161
372	Mustard-LT	502	196	419	164	209	82
402	Mahogany-VY LT	1696	666	1413	555	707	278
420	Hazelnut Brown-DK	2983	1174	2486	978	1243	489
434	Brown-LT	1503	590	1253	492	626	246
435	Brown-VY LT	1195	470	996	392	498	196
436	Tan	448	176	374	147	187	74
543	Beige Brown-UL VY LT	85	32	71	27	35	14
610	Drab Brown-DK	583	229	486	191	243	95
611	Drab Brown	335	131	279	110	140	55
612	Drab Brown-LT	988	389	824	324	412	162

613	Drab Brown-VY LT	547	214	456	179	228	89
632	Desert Sand-UL VY DK	1003	394	836	329	418	164
640	Beige Gray-VY DK	256	99	213	83	107	41
644	Beige Gray-MD	214	83	179	69	89	35
722	Orange Spice-LT	1048	412	873	344	437	172
726	Topaz-LT	2623	1031	2186	860	1093	430
738	Tan-VY LT	754	295	629	246	314	123
739	Tan-UL VY LT	736	290	614	242	307	121
741	Tangerine-MD	277	108	231	90	116	45
742	Tangerine-LT	1537	605	1281	504	641	252
743	Yellow-MD	4219	1660	3516	1383	1758	692
744	Yellow-Pale	4851	1910	4043	1592	2021	796
746	Off White	3334	1312	2778	1094	1389	547
754	Peach-LT	410	160	342	134	171	67
758	Terra Cotta-VY LT	470	184	392	153	196	77
780	Topaz-UL VY DK	2853	1123	2378	936	1189	468
782	Topaz-DK	2115	832	1763	693	881	347
801	Coffee Brown-DK	1663	653	1386	545	693	272
816	Garnet	560	220	467	183	233	92
822	Beige Gray-LT	94	36	78	30	39	15
830	Golden Olive-DK	686	270	572	225	286	113
834	Golden Olive-VY LT	1345	529	1121	441	560	221
839	Beige Brown-DK	610	239	509	200	254	100
898	Coffee Brown-VY DK	133	52	111	44	56	22
919	Red Copper	513	202	428	168	214	84
921	Copper	884	347	737	290	368	145
938	Coffee Brown-UL DK	866	340	722	284	361	142
945	Tawny	758	297	632	248	316	124
962	Dusty Rose-MD	126	49	105	41	53	20
963	Dusty Rose-UL VY LT	22	7	18	6	9	3
975	Golden Brown-DK	2869	1129	2391	941	1196	470
977	Golden Brown-LT	1627	639	1356	533	678	266
3045	Yellow Beige-DK	1141	448	951	374	476	187
3046	Yellow Beige-MD	196	76	164	63	82	32
3053	Green Gray	833	328	695	273	347	137
3064	Desert Sand	198	77	165	65	83	32
3078	Golden Yellow-VY LT	477	187	398	156	199	78
3350	Dusty Rose-UL DK	40	14	33	12	17	6
3371	Black Brown	488	191	407	159	203	80
3685	Mauve-DK	110	43	92	36	46	18
3721	Shell Pink-DK	421	166	351	138	176	69
3726	Antique Mauve-DK	97	38	81	32	41	16
3770	Tawny-VY LT	214	83	179	69	89	35
3772	Desert Sand-VY DK	59	22	50	18	25	9
3776	Mahogany-LT	486	191	405	159	203	80
3778	Terra Cotta-LT	153	59	128	50	64	25
3821	Straw	50	20	42	17	21	8
3822	Straw-LT	266	104	222	87	111	44
3823	Yellow-UL Pale	1454	572	1212	477	606	239
3824	Apricot-LT	477	187	398	156	199	78
3825	Pumpkin-Pale	828	326	690	272	345	136
3828	Hazelnut Brown	1517	596	1265	497	632	248
3829	Old Gold-VY DK	310	121	258	101	129	50
3831	Raspberry-DK	247	95	206	80	103	40
3832	Raspberry-MD	319	124	266	104	133	52
3853	Autumn Gold-DK	1242	488	1035	407	518	203
3854	Autumn Gold-MD	1685	662	1404	552	702	276
3855	Autumn Gold-LT	196	76	164	63	82	32
3856	Mahogany-UL VY LT	1073	421	894	351	447	176

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3857	Rosewood-DK	1139	448	950	374	475	187
3862	Mocha Beige-DK	542	212	452	177	226	89
3864	Mocha Beige-LT	799	313	666	261	333	131
3865	Winter White	85	32	71	27	35	14
3866	Mocha Brown-UL VY LT	103	40	86	33	43	17
Ecrú	Ecrú	83	32	69	27	35	14

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	312	122	300	118	289	113
223	Shell Pink-LT	23	9	22	8	21	8
224	Shell Pink-VY LT	60	23	57	22	55	21
300	Mahogany-VY DK	1279	503	1230	484	1184	466
301	Mahogany-MD	924	364	889	350	856	337
316	Antique Mauve-MD	37	14	35	14	34	13
326	Rose-VY DK	136	53	131	51	126	49
352	Coral-LT	258	102	249	98	239	94
353	Peach	358	140	344	135	331	130
370	Mustard-MD	395	155	379	149	365	143
372	Mustard-LT	201	78	193	75	186	73
402	Mahogany-VY LT	678	266	652	256	628	247
420	Hazelnut Brown-DK	1193	469	1147	451	1105	435
434	Brown-LT	601	236	578	227	557	219
435	Brown-VY LT	478	188	460	181	443	174
436	Tan	179	71	172	68	166	65
543	Beige Brown-UL VY LT	34	13	33	12	31	12
610	Drab Brown-DK	233	91	224	88	216	85
611	Drab Brown	134	53	129	51	124	49
612	Drab Brown-LT	395	156	380	150	366	144
613	Drab Brown-VY LT	219	86	210	82	203	79
632	Desert Sand-UL VY DK	401	158	386	152	371	146
640	Beige Gray-VY DK	102	40	98	38	95	37
644	Beige Gray-MD	86	33	82	32	79	31
722	Orange Spice-LT	419	165	403	159	388	153
726	Topaz-LT	1049	413	1009	397	971	382
738	Tan-VY LT	302	118	290	114	279	109
739	Tan-UL VY LT	294	116	283	111	273	107
741	Tangerine-MD	111	43	107	42	103	40
742	Tangerine-LT	615	242	591	233	569	224
743	Yellow-MD	1688	664	1623	638	1563	615
744	Yellow-Pale	1940	764	1866	735	1797	707
746	Off White	1333	525	1282	505	1235	486
754	Peach-LT	164	64	158	62	152	59
758	Terra Cotta-VY LT	188	73	181	71	174	68
780	Topaz-UL VY DK	1141	449	1097	432	1057	416
782	Topaz-DK	846	333	813	320	783	308
801	Coffee Brown-DK	665	261	640	251	616	242
816	Garnet	224	88	215	84	207	81
822	Beige Gray-LT	37	14	36	14	35	13
830	Golden Olive-DK	274	108	264	104	254	100
834	Golden Olive-VY LT	538	212	517	204	498	196
839	Beige Brown-DK	244	96	235	92	226	89
898	Coffee Brown-VY DK	53	21	51	20	49	19
919	Red Copper	205	81	197	78	190	75
921	Copper	354	139	340	134	327	129

938	Coffee Brown-UL DK	346	136	333	131	321	126
945	Tawny	303	119	291	114	281	110
962	Dusty Rose-MD	50	19	48	19	47	18
963	Dusty Rose-UL VY LT	9	3	8	3	8	3
975	Golden Brown-DK	1148	451	1104	434	1063	418
977	Golden Brown-LT	651	256	626	246	603	237
3045	Yellow Beige-DK	456	179	439	172	423	166
3046	Yellow Beige-MD	78	30	75	29	73	28
3053	Green Gray	333	131	321	126	309	121
3064	Desert Sand	79	31	76	30	73	29
3078	Golden Yellow-VY LT	191	75	183	72	177	69
3350	Dusty Rose-UL DK	16	6	15	6	15	5
3371	Black Brown	195	76	188	73	181	71
3685	Mauve-DK	44	17	42	17	41	16
3721	Shell Pink-DK	168	66	162	64	156	61
3726	Antique Mauve-DK	39	15	37	15	36	14
3770	Tawny-VY LT	86	33	82	32	79	31
3772	Desert Sand-VY DK	24	9	23	8	22	8
3776	Mahogany-LT	194	76	187	73	180	71
3778	Terra Cotta-LT	61	24	59	23	57	22
3821	Straw	20	8	19	8	19	7
3822	Straw-LT	107	42	102	40	99	39
3823	Yellow-UL Pale	582	229	559	220	539	212
3824	Apricot-LT	191	75	183	72	177	69
3825	Pumpkin-Pale	331	130	318	125	307	121
3828	Hazelnut Brown	607	238	584	229	562	221
3829	Old Gold-VY DK	124	48	119	46	115	45
3831	Raspberry-DK	99	38	95	37	91	35
3832	Raspberry-MD	127	50	123	48	118	46
3853	Autumn Gold-DK	497	195	478	188	460	181
3854	Autumn Gold-MD	674	265	648	255	624	245
3855	Autumn Gold-LT	78	30	75	29	73	28
3856	Mahogany-UL VY LT	429	168	413	162	397	156
3857	Rosewood-DK	456	179	438	172	422	166
3862	Mocha Beige-DK	217	85	208	82	201	79
3864	Mocha Beige-LT	320	125	307	120	296	116
3865	Winter White	34	13	33	12	31	12
3866	Mocha Brown-UL VY LT	41	16	39	15	38	15
Ecrú	Ecrú	33	13	32	12	31	12

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	278	109	260	102	244	96
223	Shell Pink-LT	21	8	19	7	18	7
224	Shell Pink-VY LT	53	21	50	19	47	18
300	Mahogany-VY DK	1142	449	1066	419	999	393
301	Mahogany-MD	825	325	770	303	722	284
316	Antique Mauve-MD	33	13	31	12	29	11
326	Rose-VY DK	122	48	113	44	106	42
352	Coral-LT	231	91	215	85	202	79
353	Peach	320	125	298	117	280	110
370	Mustard-MD	352	138	329	129	308	121
372	Mustard-LT	179	70	167	65	157	61
402	Mahogany-VY LT	606	238	565	222	530	208
420	Hazelnut Brown-DK	1065	419	994	391	932	367
434	Brown-LT	537	211	501	197	470	185

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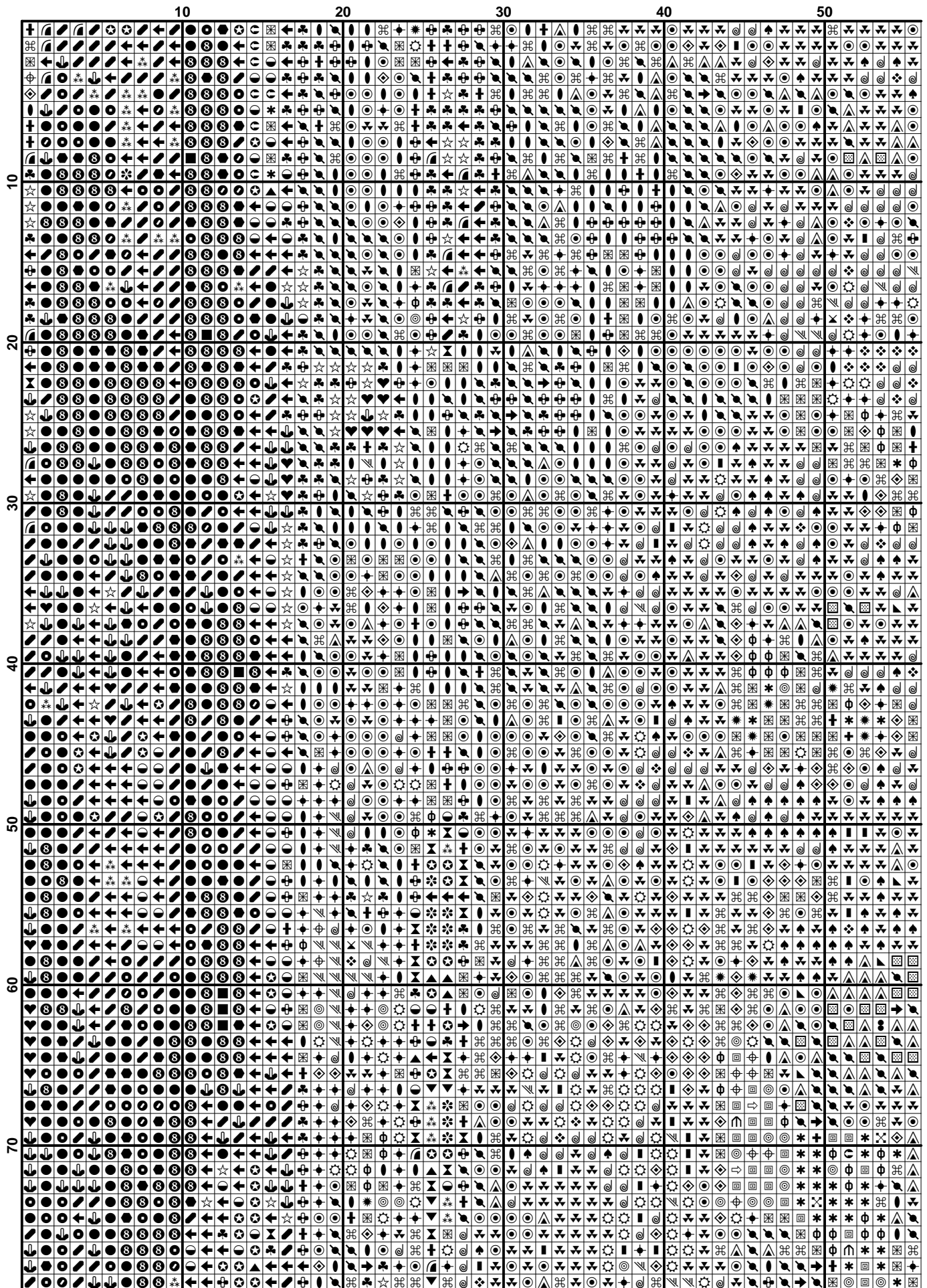
435	Brown-VY LT	427	168	398	157	374	147
436	Tan	160	63	149	59	140	55
543	Beige Brown-UL VY LT	30	12	28	11	26	10
610	Drab Brown-DK	208	82	194	76	182	71
611	Drab Brown	120	47	112	44	105	41
612	Drab Brown-LT	353	139	329	130	309	122
613	Drab Brown-VY LT	195	77	182	71	171	67
632	Desert Sand-UL VY DK	358	141	334	131	313	123
640	Beige Gray-VY DK	91	35	85	33	80	31
644	Beige Gray-MD	77	30	71	28	67	26
722	Orange Spice-LT	374	147	349	137	327	129
726	Topaz-LT	937	368	874	344	820	322
738	Tan-VY LT	269	105	251	98	236	92
739	Tan-UL VY LT	263	104	245	97	230	91
741	Tangerine-MD	99	39	92	36	87	34
742	Tangerine-LT	549	216	512	202	480	189
743	Yellow-MD	1507	593	1406	553	1319	519
744	Yellow-Pale	1733	682	1617	637	1516	597
746	Off White	1191	469	1111	437	1042	410
754	Peach-LT	147	57	137	53	128	50
758	Terra Cotta-VY LT	168	66	157	61	147	57
780	Topaz-UL VY DK	1019	401	951	374	892	351
782	Topaz-DK	755	297	705	277	661	260
801	Coffee Brown-DK	594	233	554	218	520	204
816	Garnet	200	78	187	73	175	69
822	Beige Gray-LT	33	13	31	12	29	11
830	Golden Olive-DK	245	96	229	90	214	84
834	Golden Olive-VY LT	480	189	448	176	420	165
839	Beige Brown-DK	218	86	203	80	191	75
898	Coffee Brown-VY DK	48	19	44	17	42	16
919	Red Copper	183	72	171	67	160	63
921	Copper	316	124	295	116	276	109
938	Coffee Brown-UL DK	309	122	289	113	271	106
945	Tawny	271	106	253	99	237	93
962	Dusty Rose-MD	45	17	42	16	39	15
963	Dusty Rose-UL VY LT	8	3	7	2	7	2
975	Golden Brown-DK	1025	403	956	376	897	353
977	Golden Brown-LT	581	228	542	213	509	200
3045	Yellow Beige-DK	408	160	380	149	357	140
3046	Yellow Beige-MD	70	27	65	25	61	24
3053	Green Gray	298	117	278	109	260	102
3064	Desert Sand	71	28	66	26	62	24
3078	Golden Yellow-VY LT	170	67	159	62	149	59
3350	Dusty Rose-UL DK	14	5	13	5	12	5
3371	Black Brown	174	68	163	64	152	60
3685	Mauve-DK	39	15	37	14	34	14
3721	Shell Pink-DK	150	59	140	55	132	52
3726	Antique Mauve-DK	35	14	32	13	30	12
3770	Tawny-VY LT	77	30	71	28	67	26
3772	Desert Sand-VY DK	21	8	20	7	19	7
3776	Mahogany-LT	174	68	162	64	152	60
3778	Terra Cotta-LT	55	21	51	20	48	19
3821	Straw	18	7	17	7	16	6
3822	Straw-LT	95	37	89	35	83	33
3823	Yellow-UL Pale	519	204	485	191	455	179
3824	Apricot-LT	170	67	159	62	149	59
3825	Pumpkin-Pale	296	116	276	109	259	102
3828	Hazelnut Brown	542	213	506	199	474	186
3829	Old Gold-VY DK	111	43	103	40	97	38

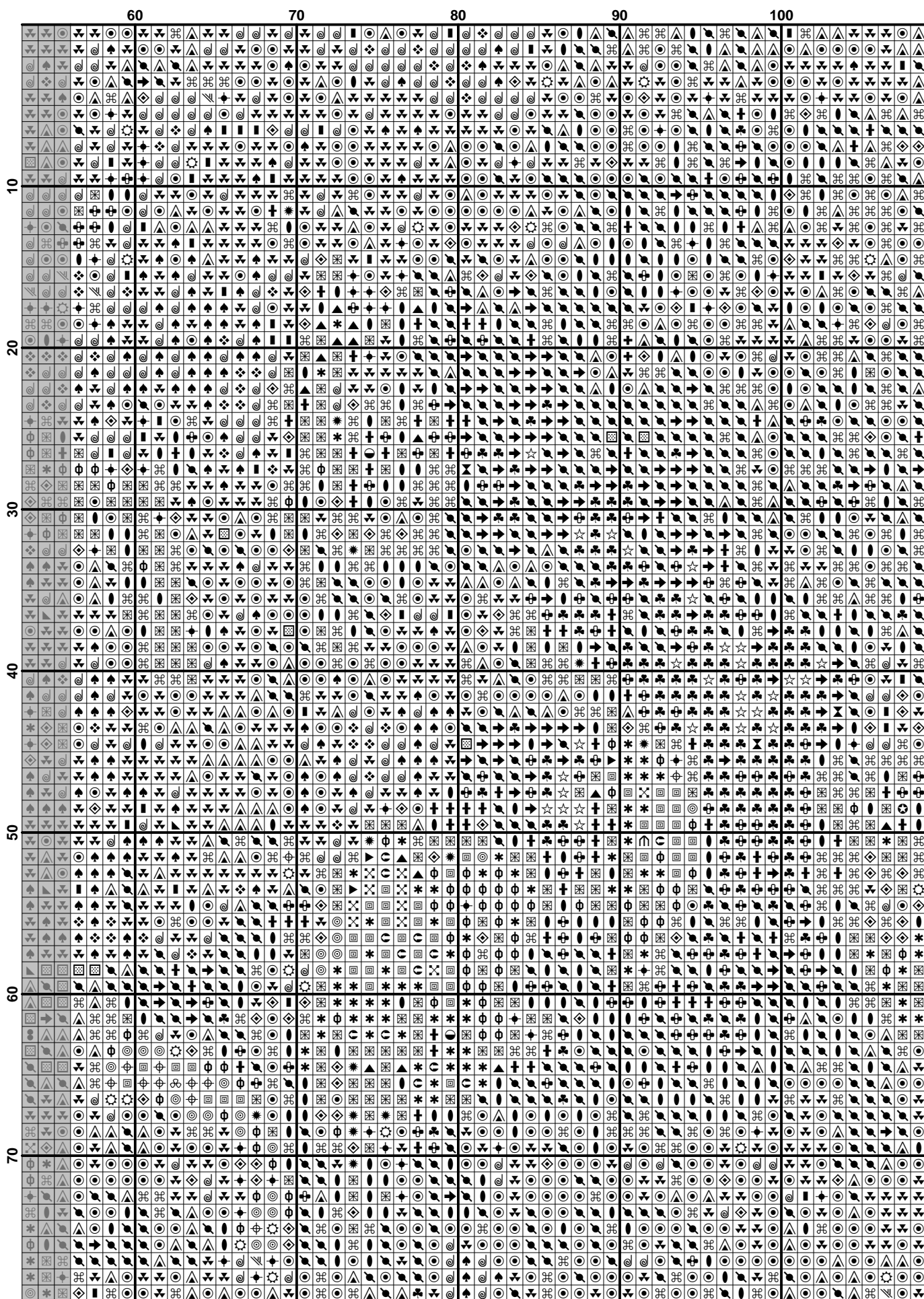
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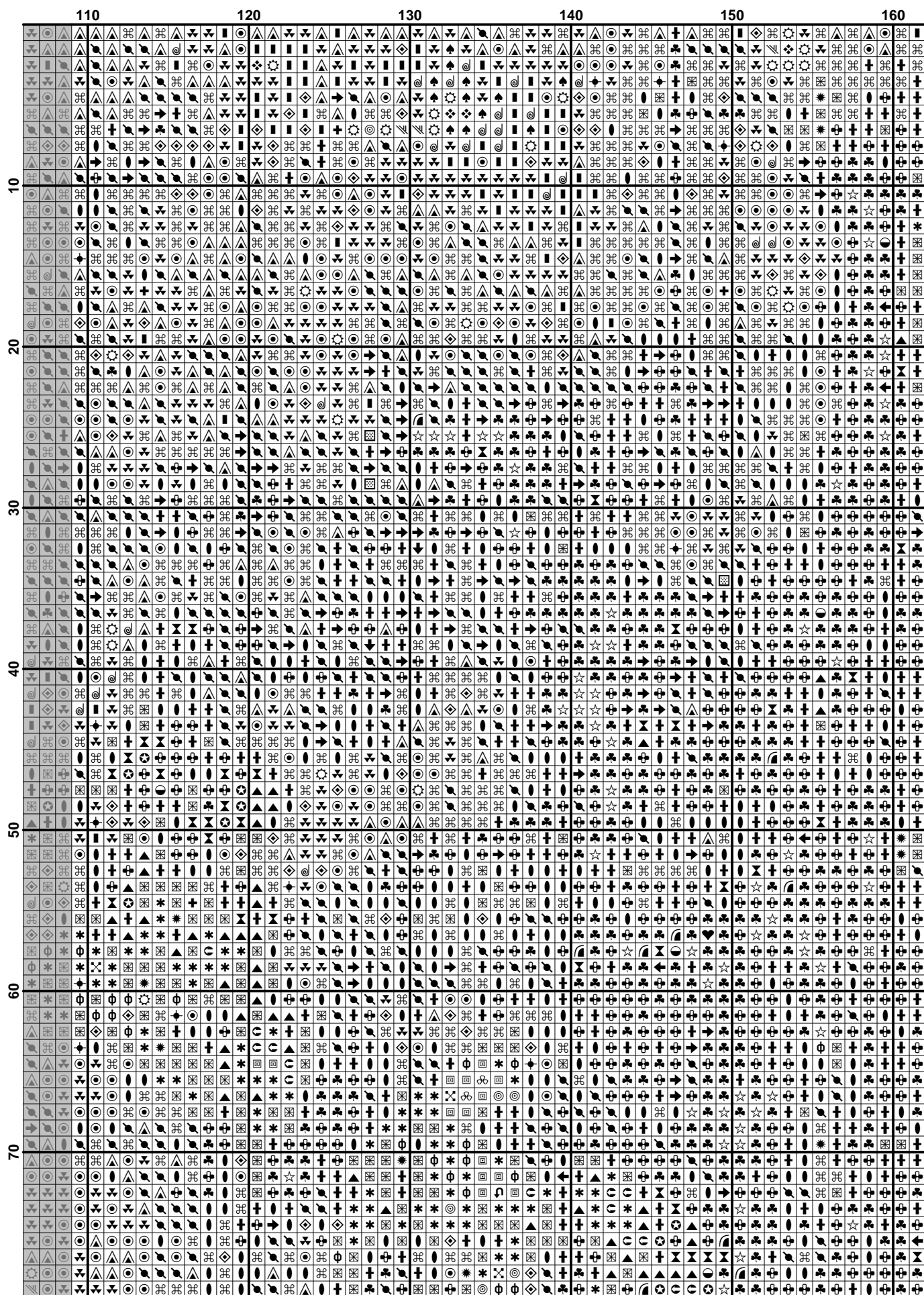
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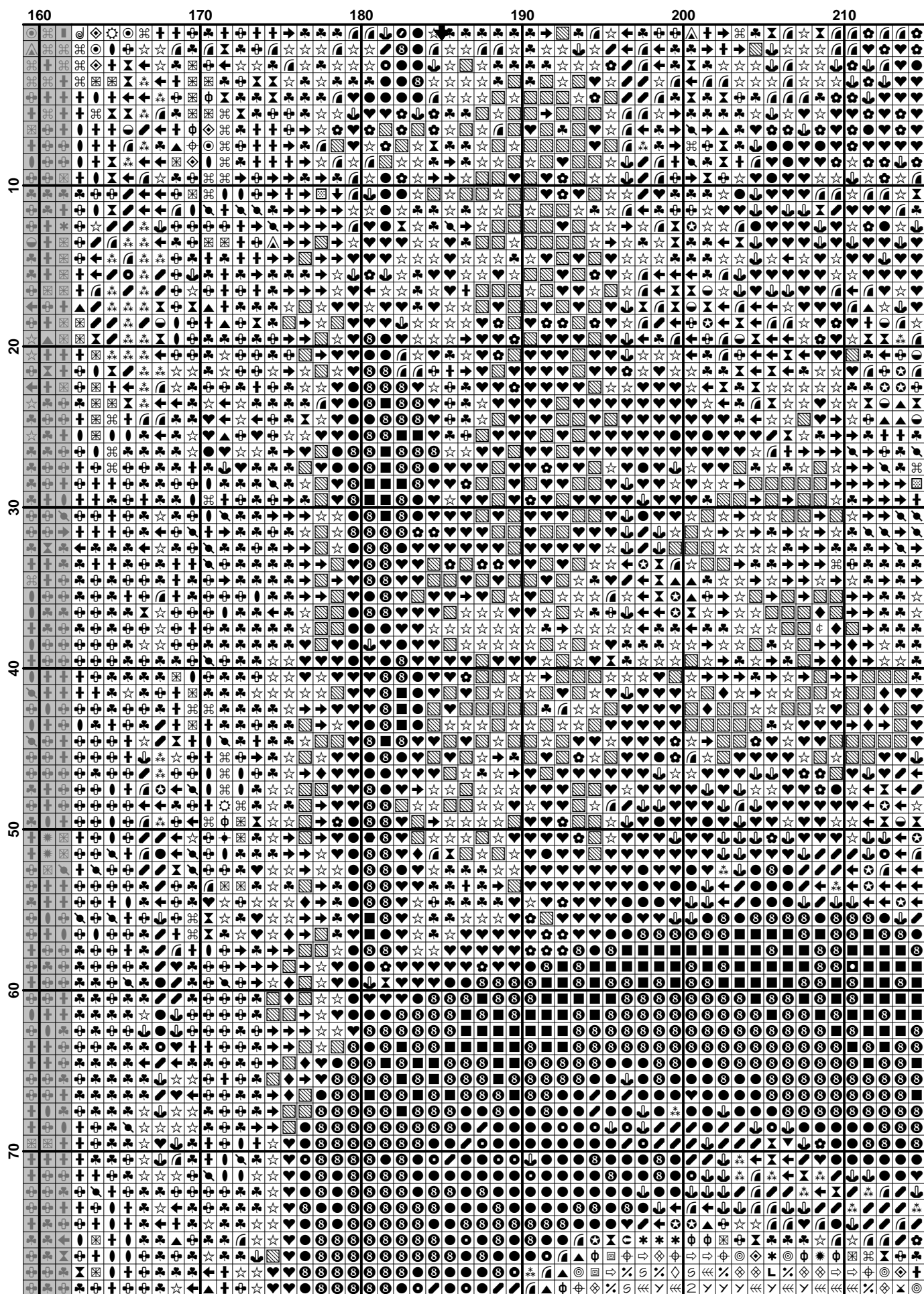
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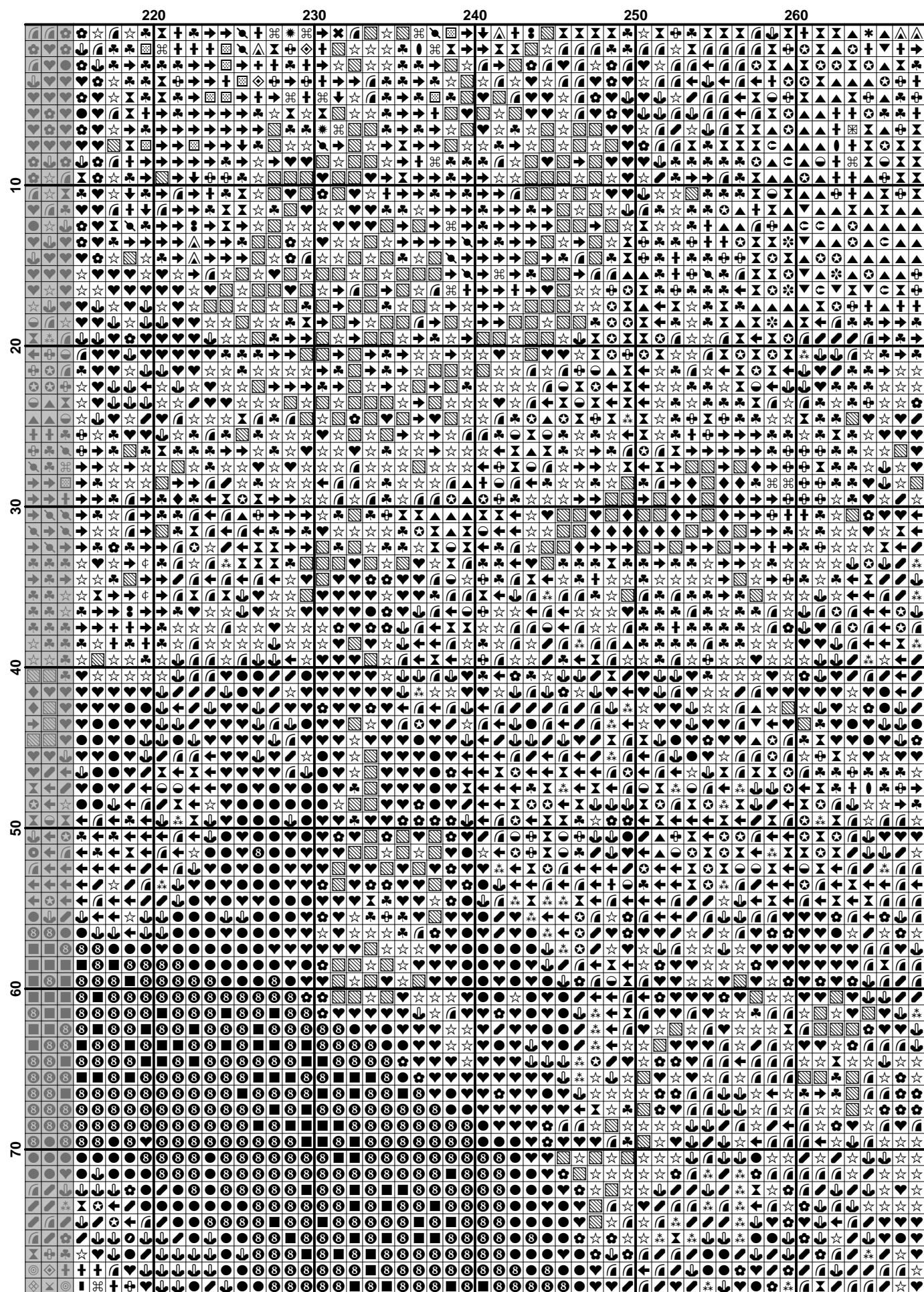
3831	Raspberry-DK	88	34	82	32	77	30
3832	Raspberry-MD	114	44	106	41	100	39
3853	Autumn Gold-DK	444	174	414	163	388	152
3854	Autumn Gold-MD	602	237	562	221	527	207
3855	Autumn Gold-LT	70	27	65	25	61	24
3856	Mahogany-UL VY LT	383	150	358	140	335	132
3857	Rosewood-DK	407	160	380	149	356	140
3862	Mocha Beige-DK	194	76	181	71	169	66
3864	Mocha Beige-LT	285	112	266	104	250	98
3865	Winter White	30	12	28	11	26	10
3866	Mocha Brown-UL VY LT	37	14	34	13	32	12
Ecrú	Ecrú	30	12	28	11	26	10

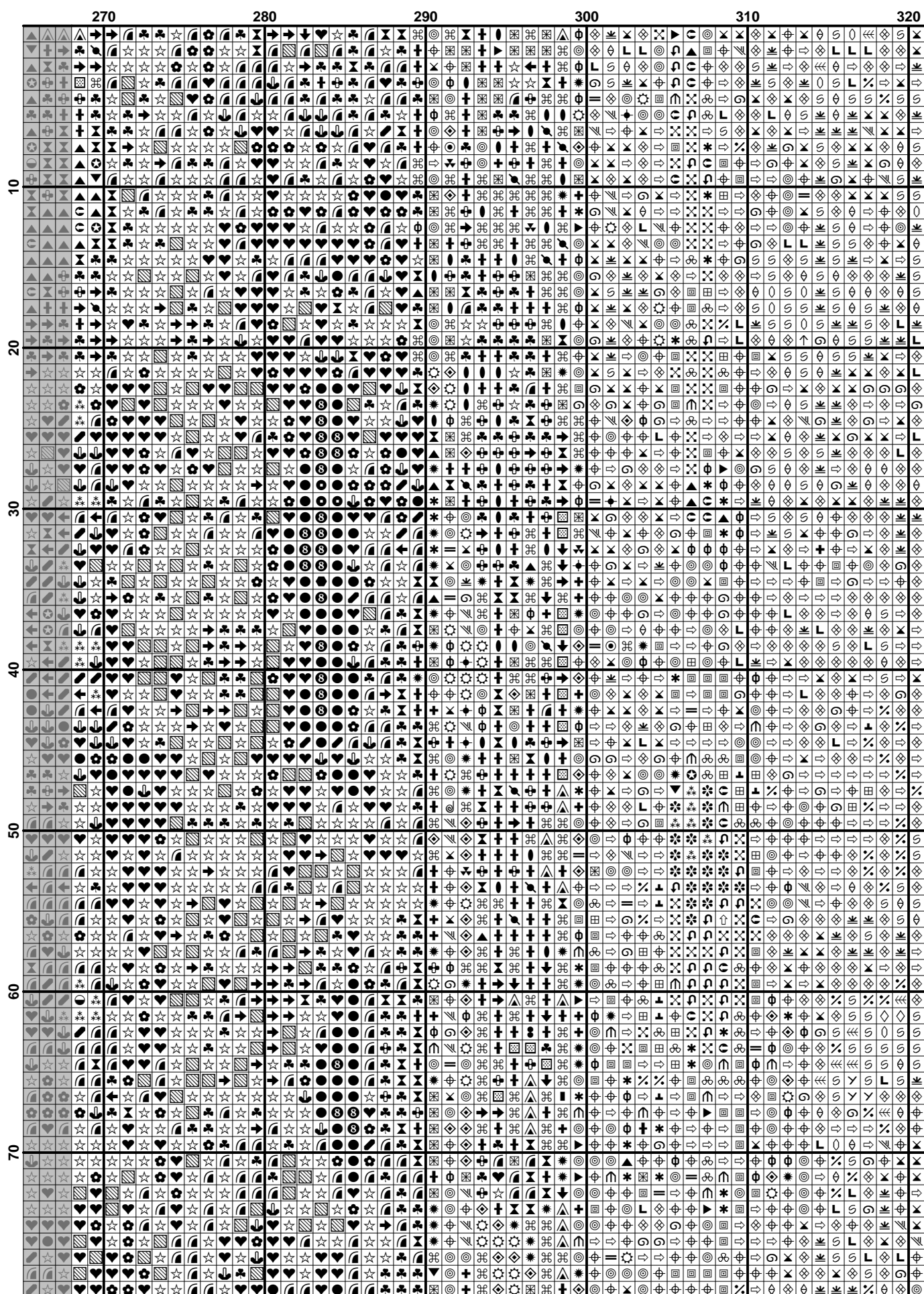


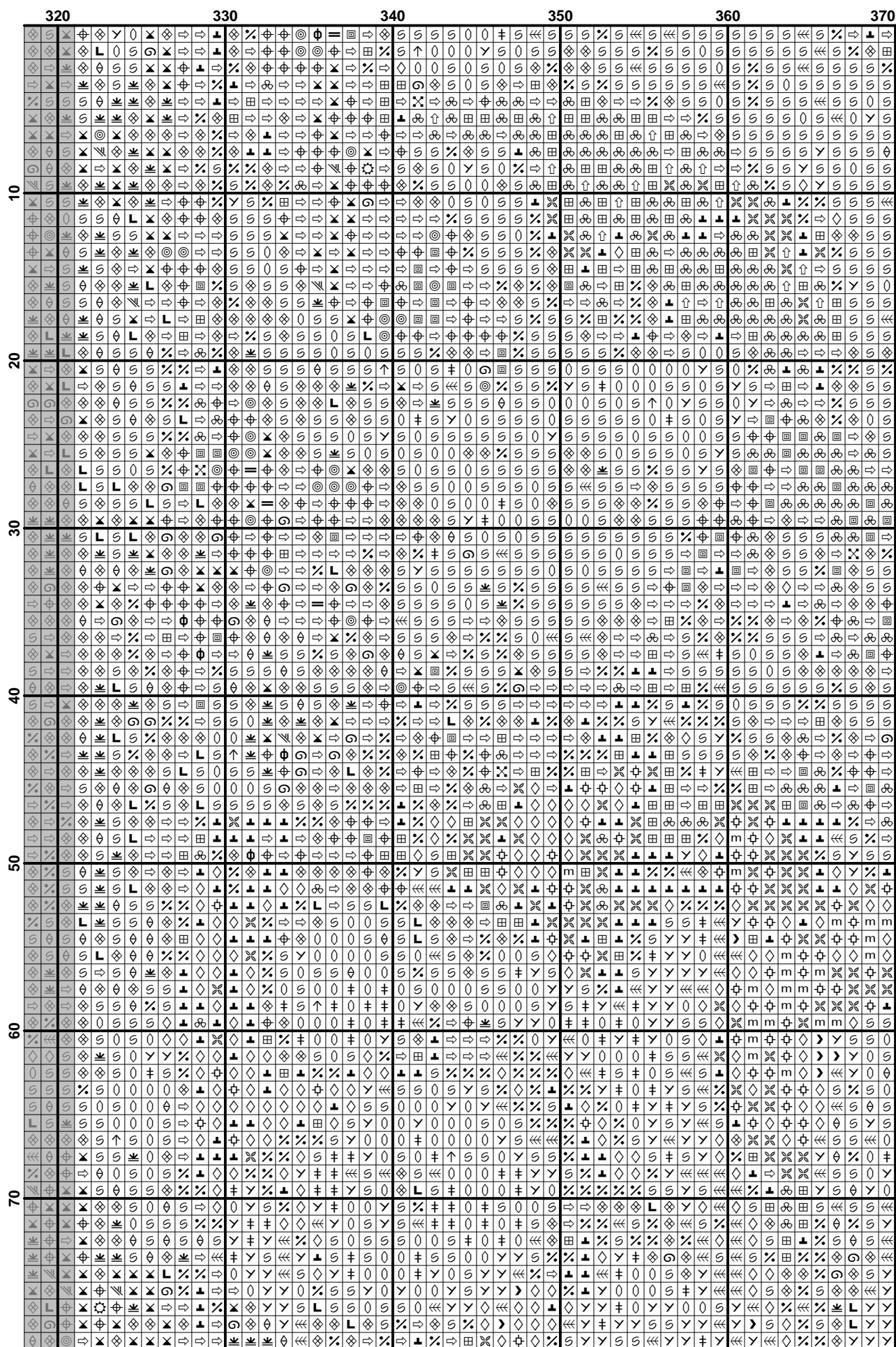


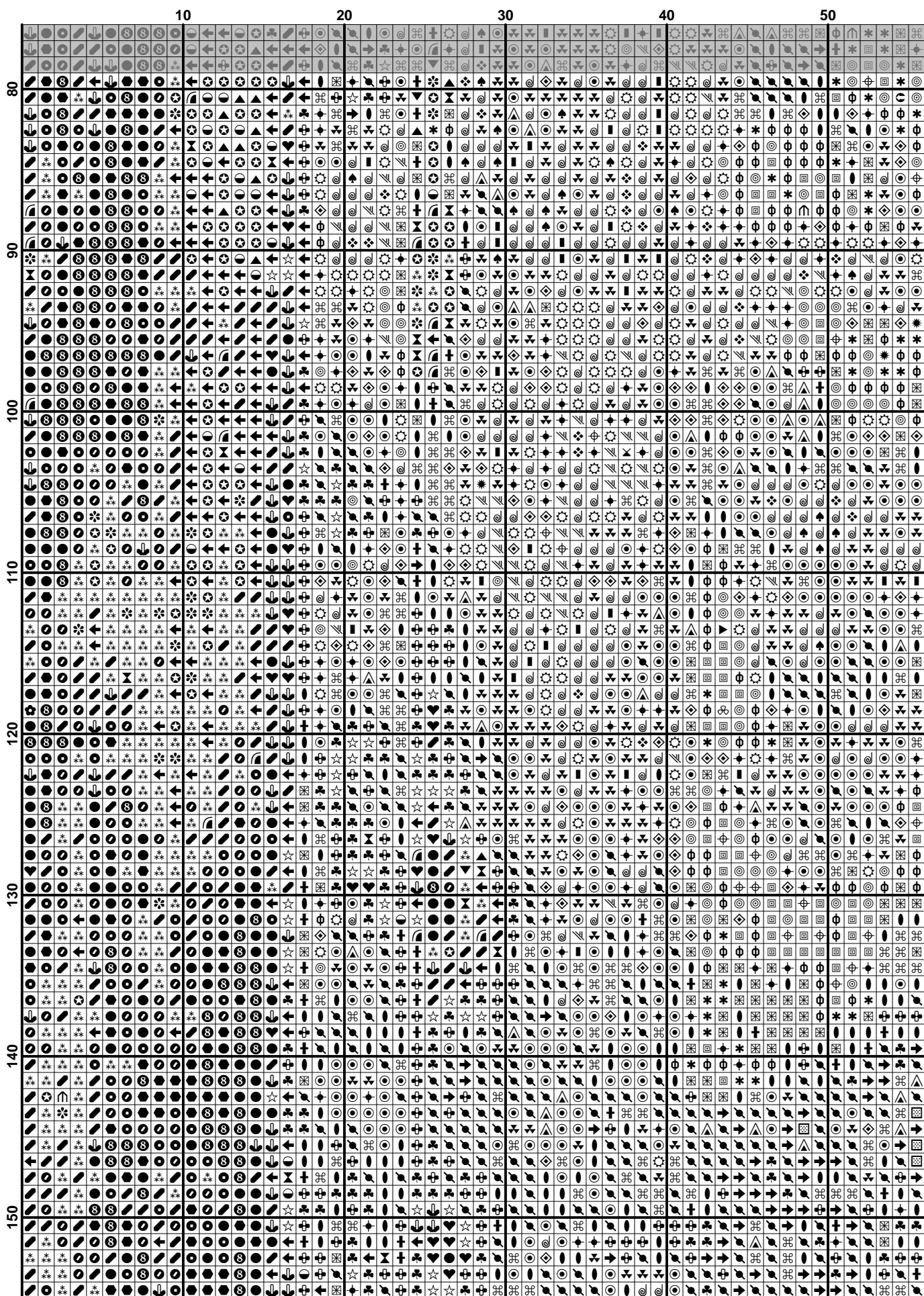


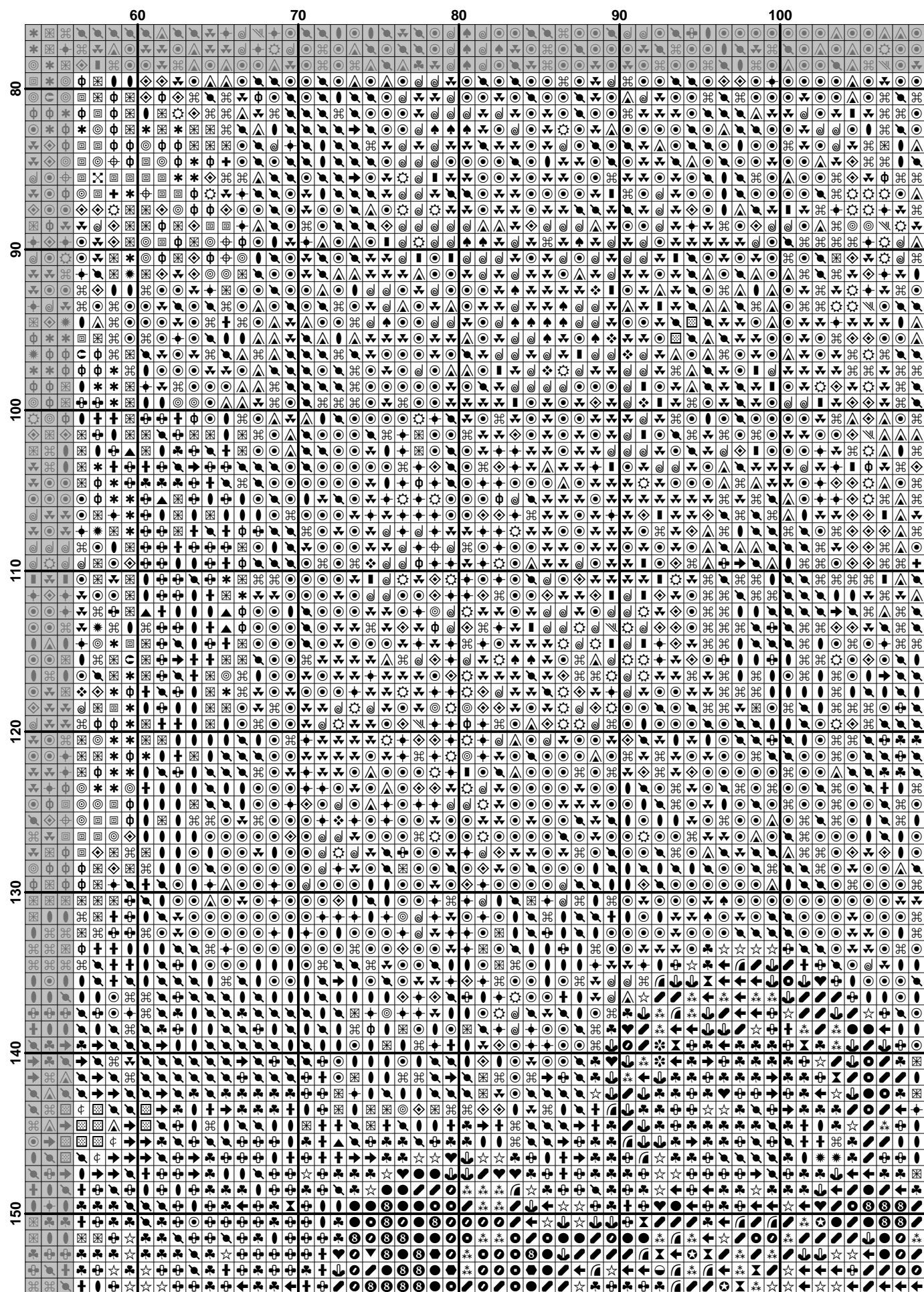


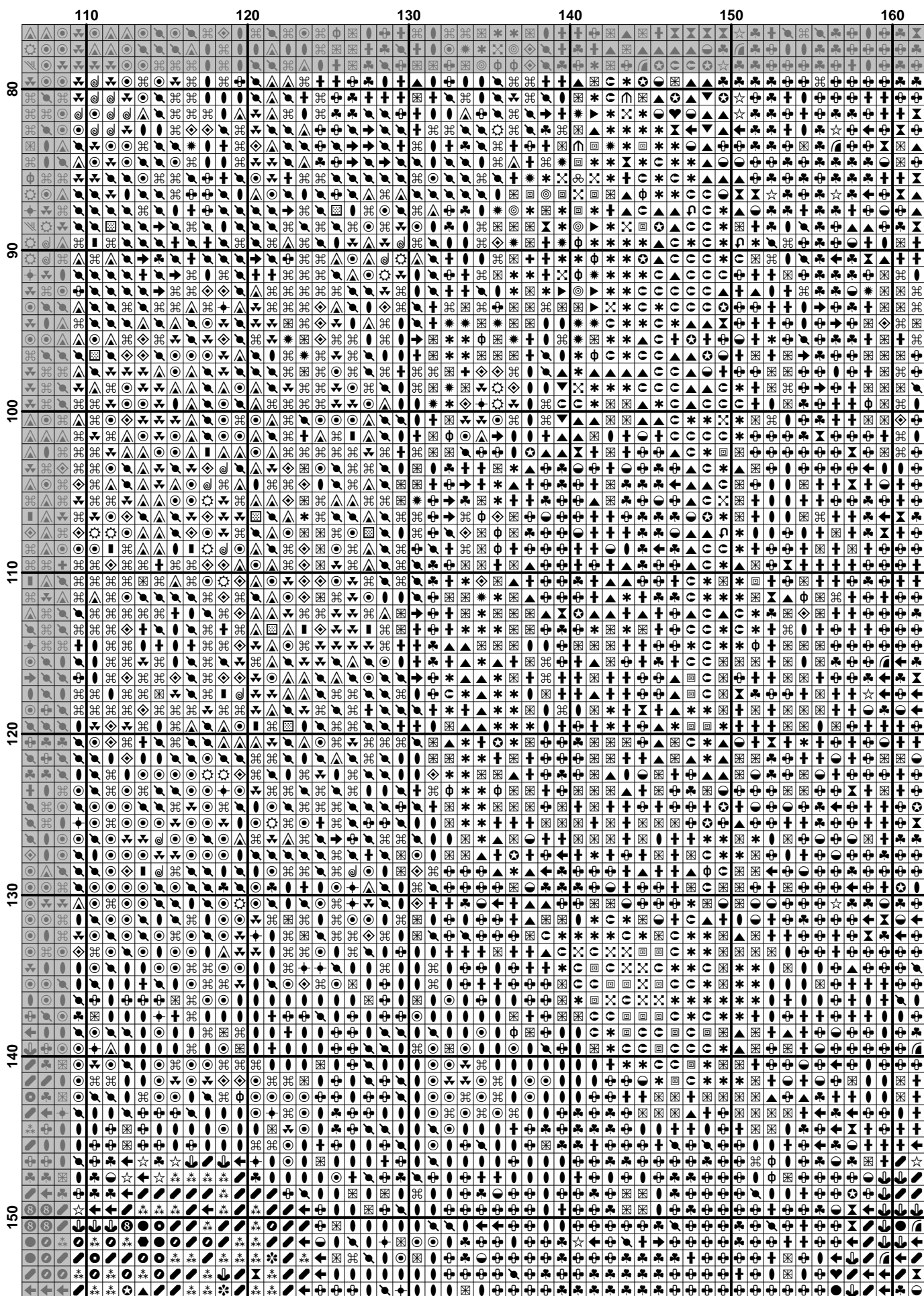


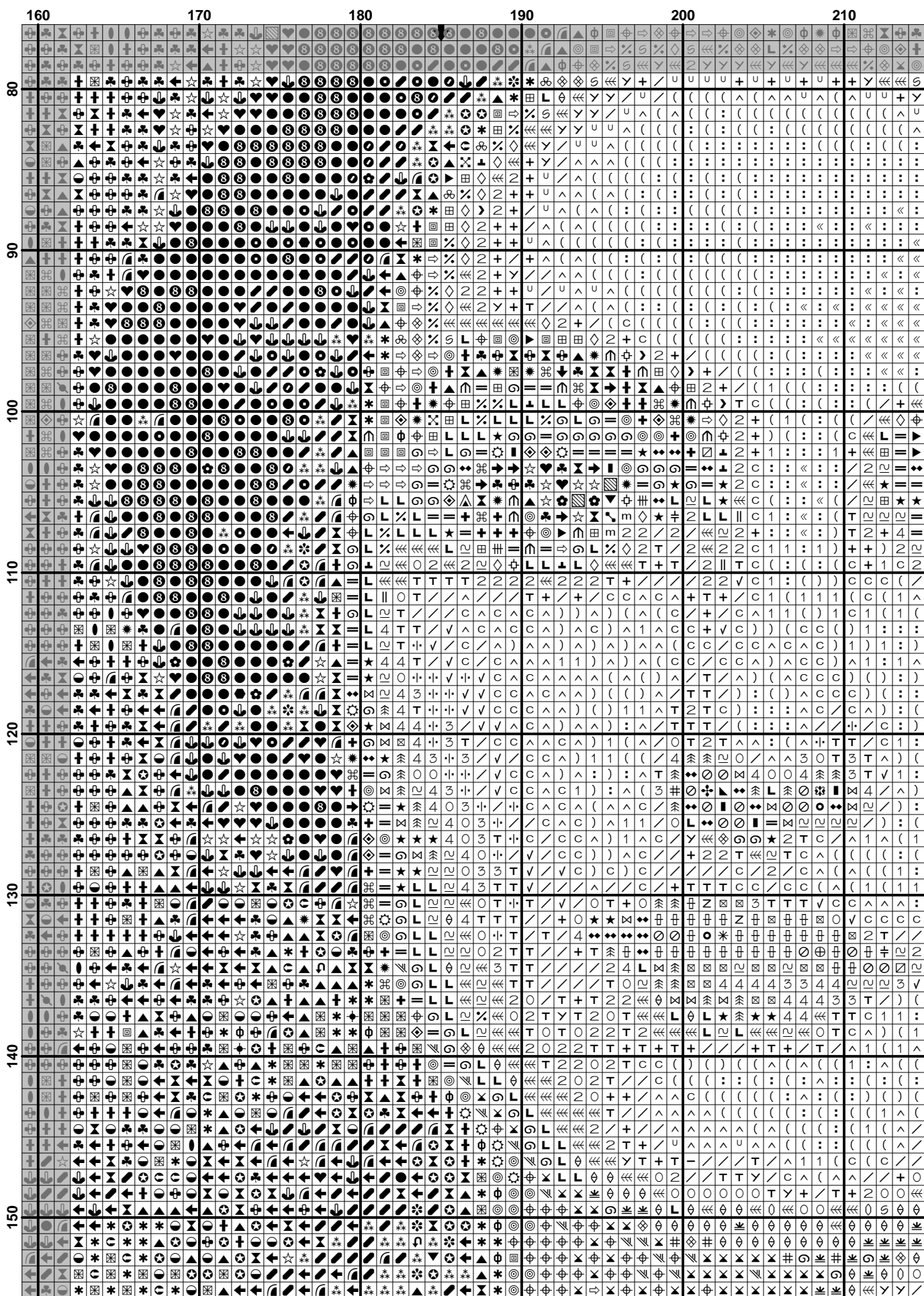


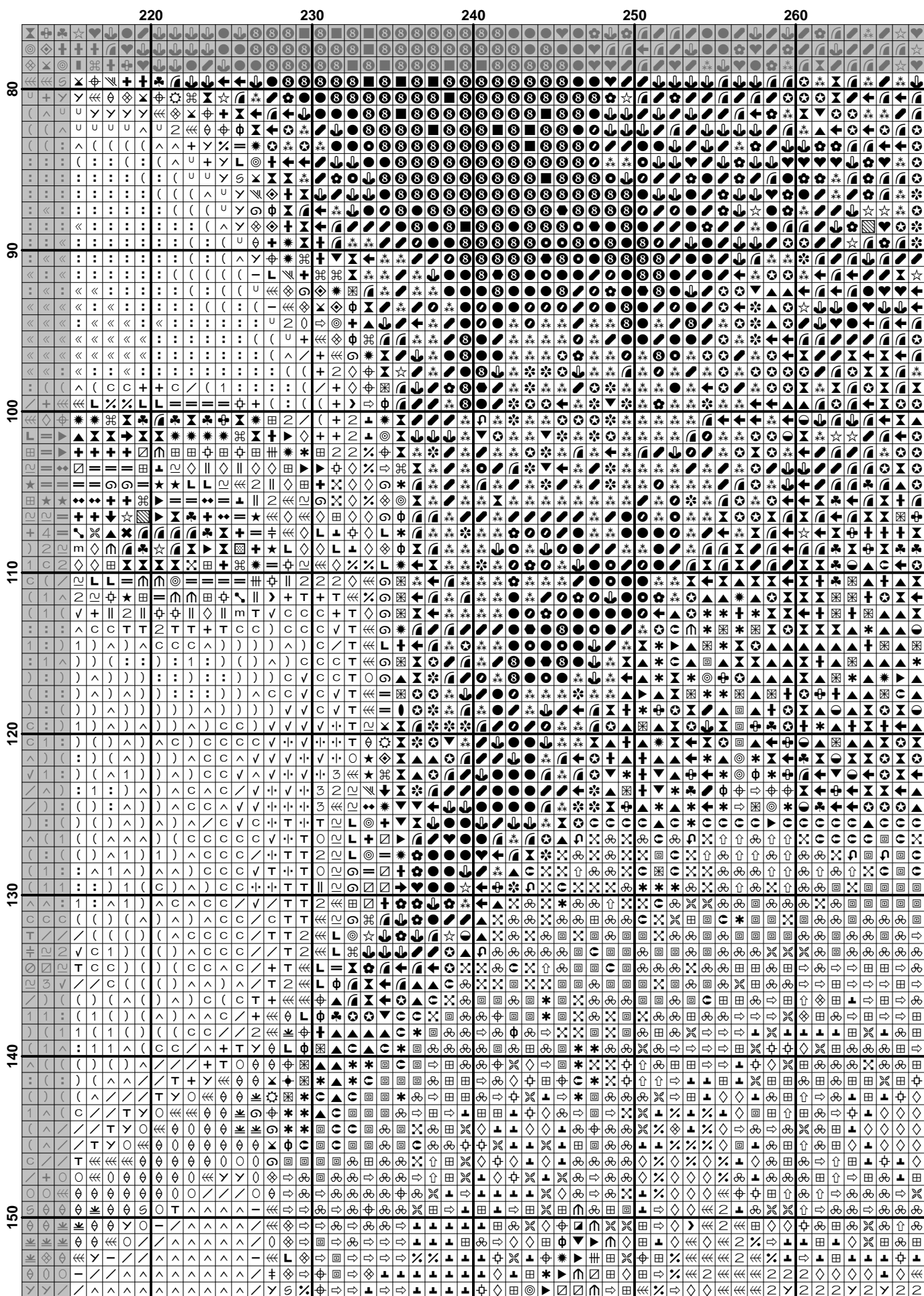


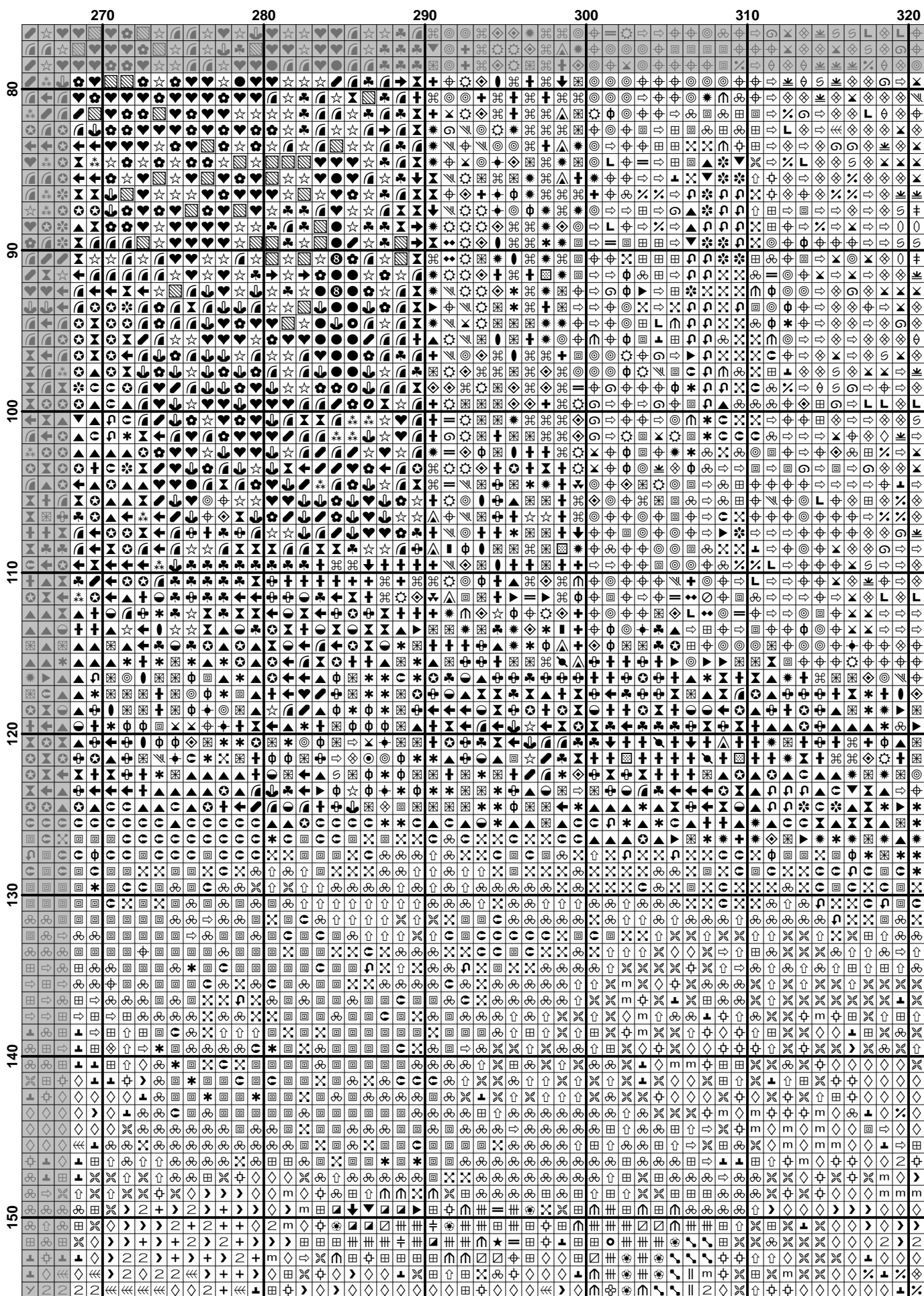


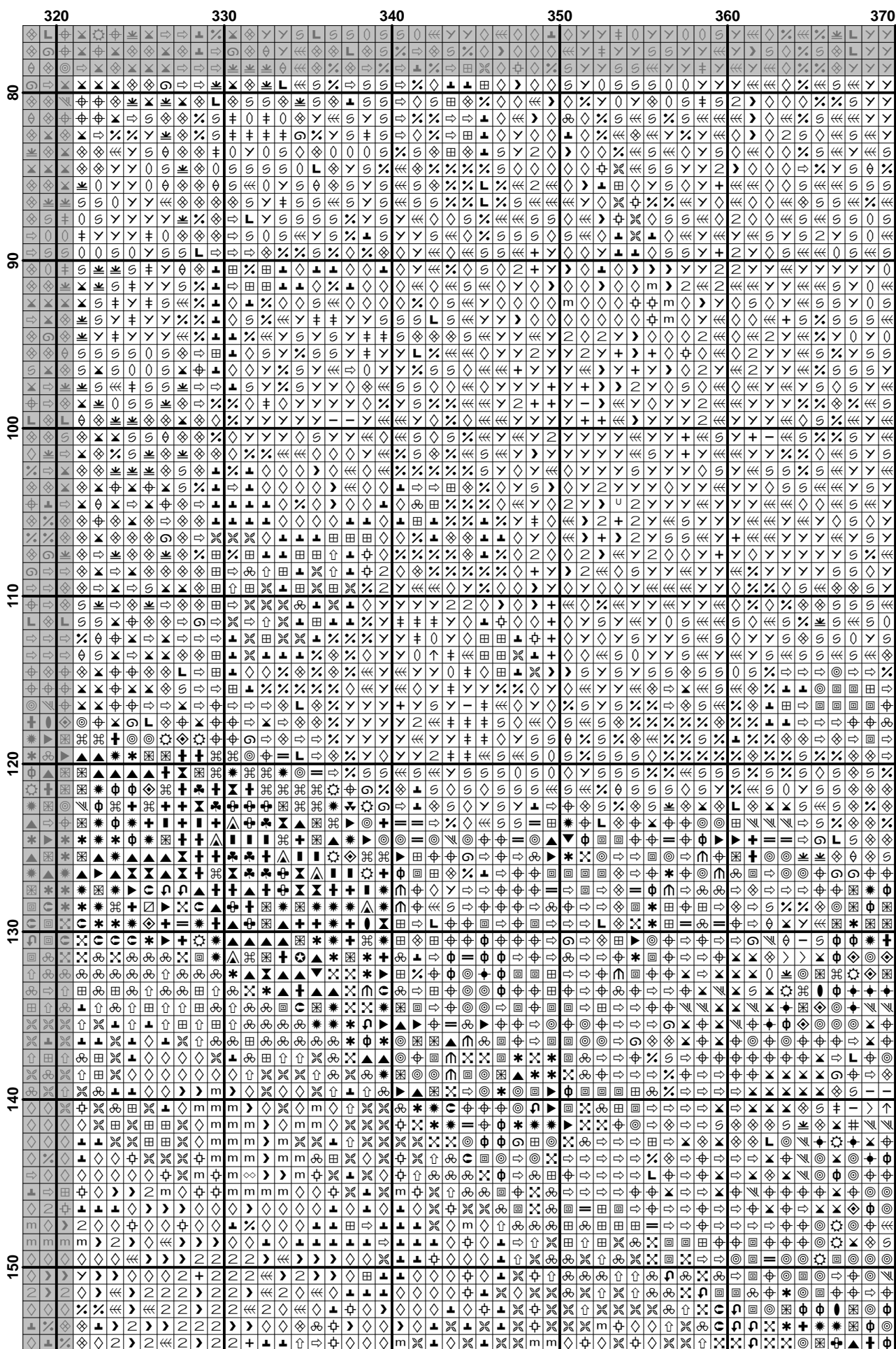


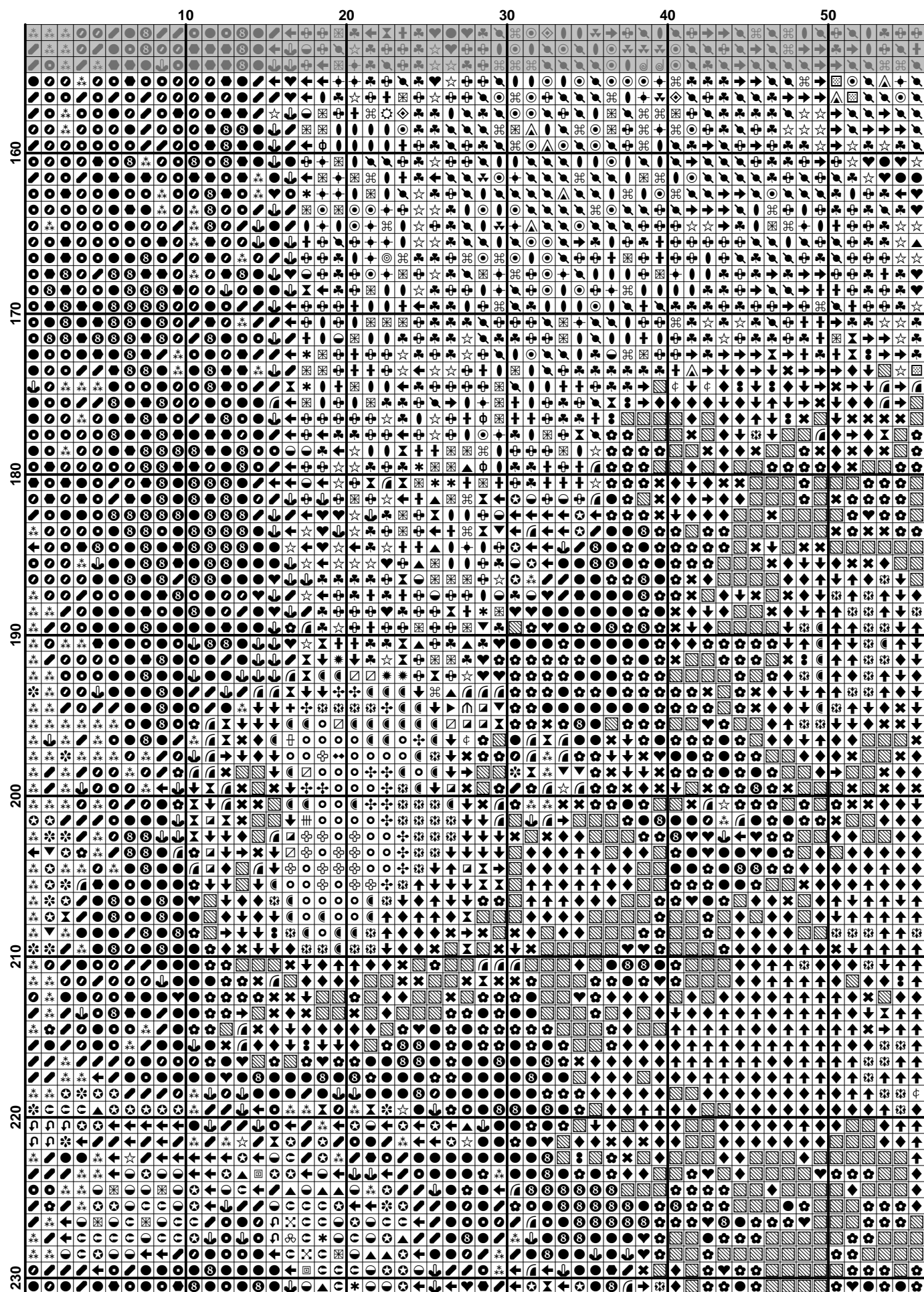




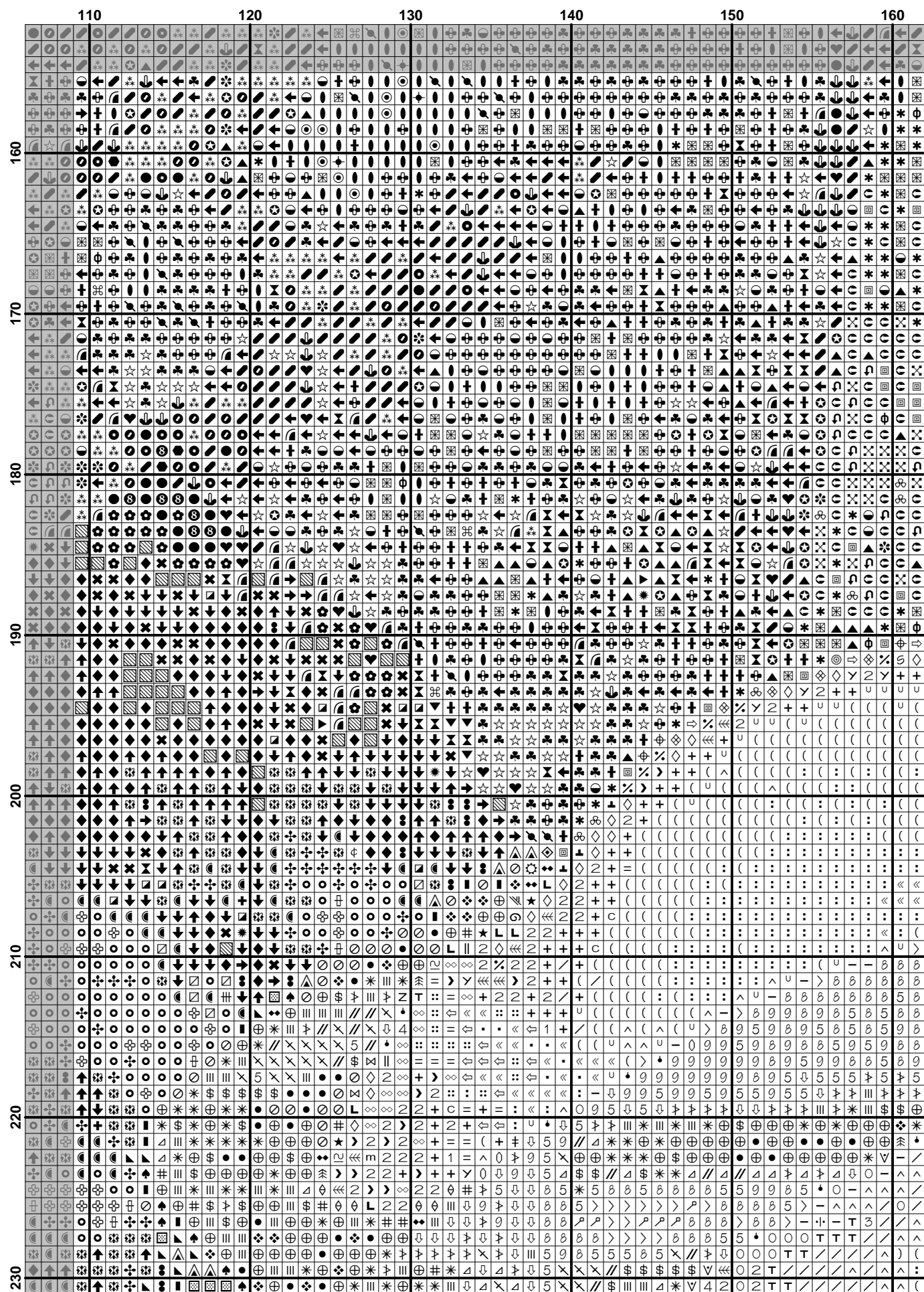












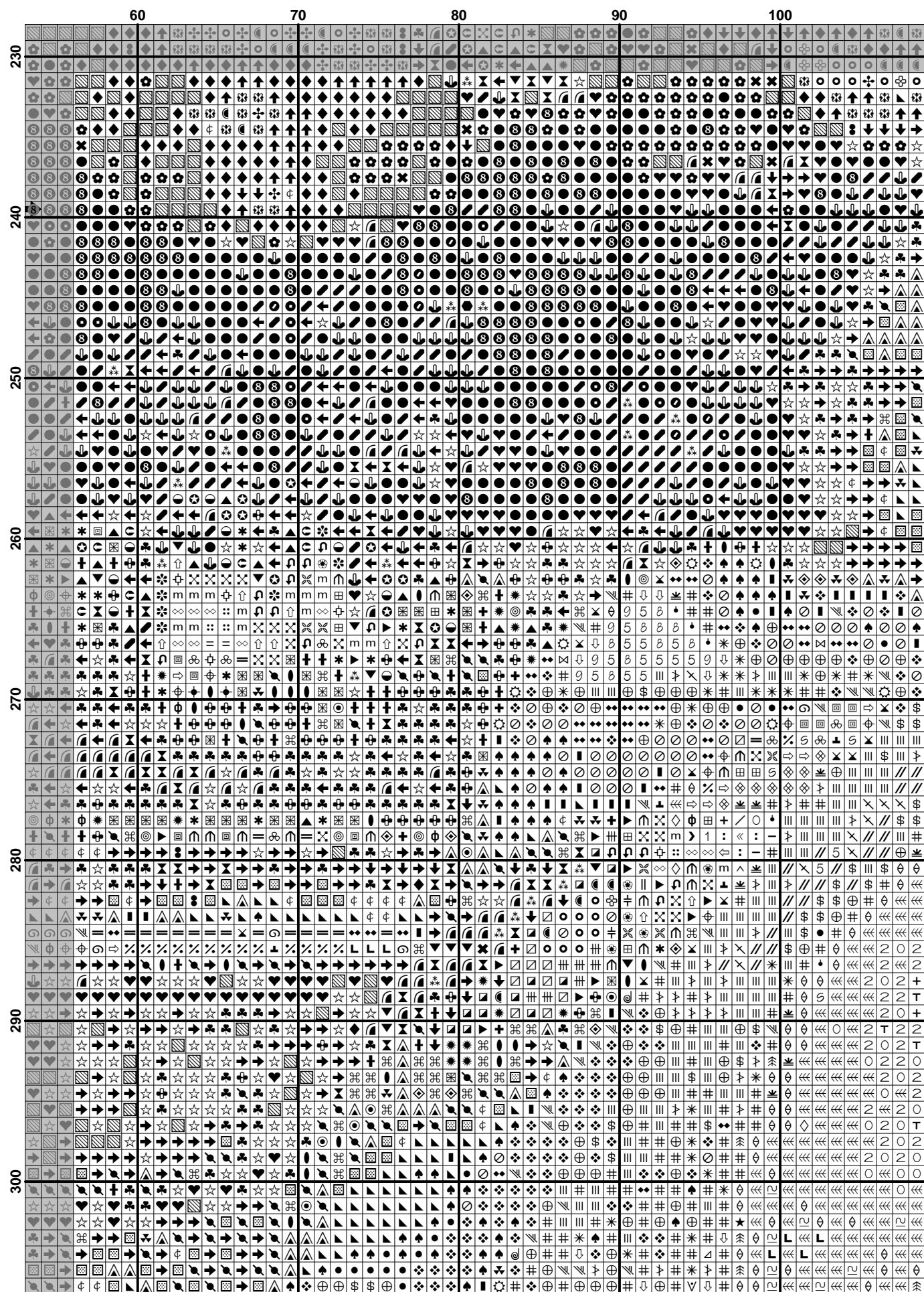
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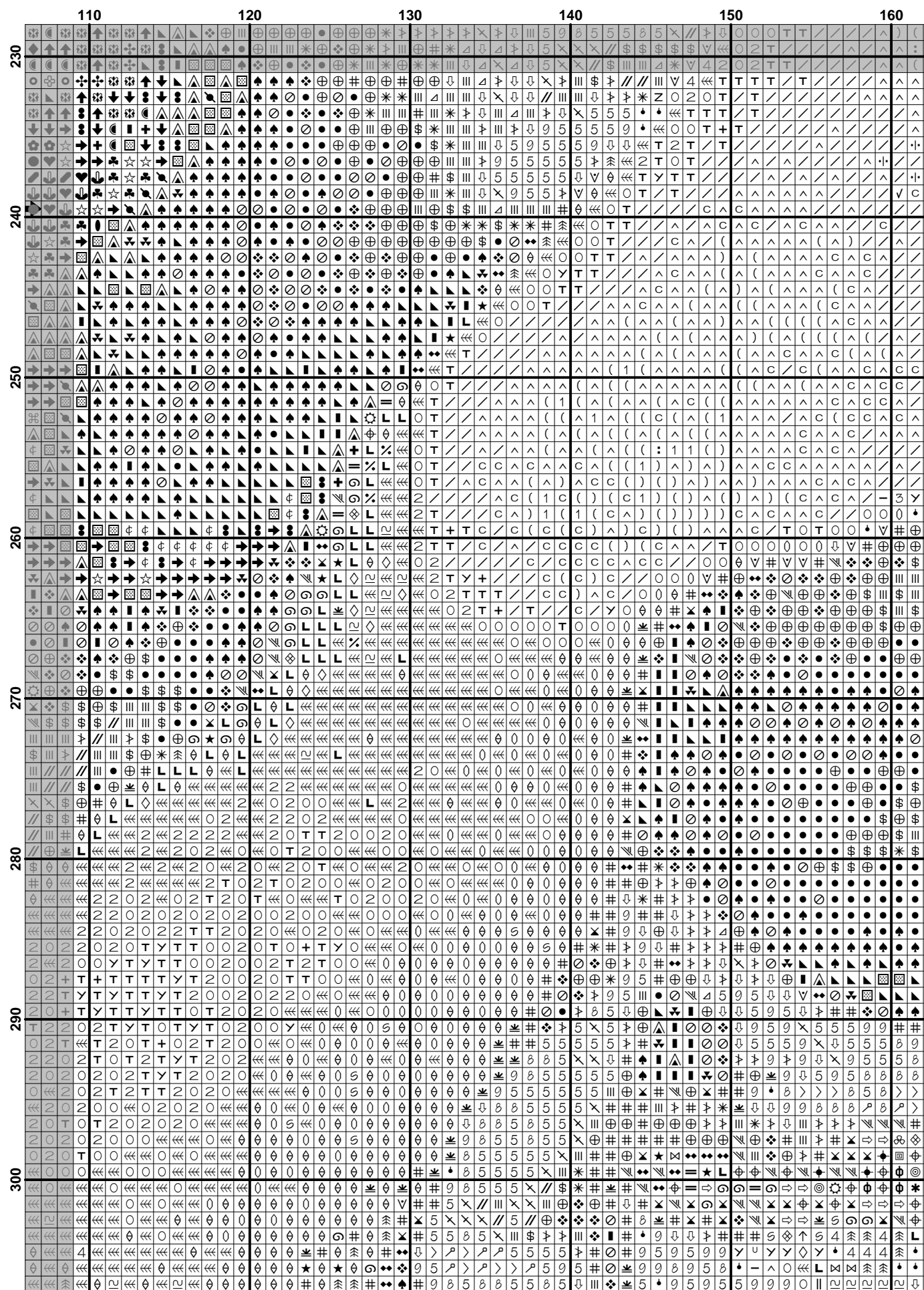
$$(26) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (27)$$

[illegible]

[illegible]





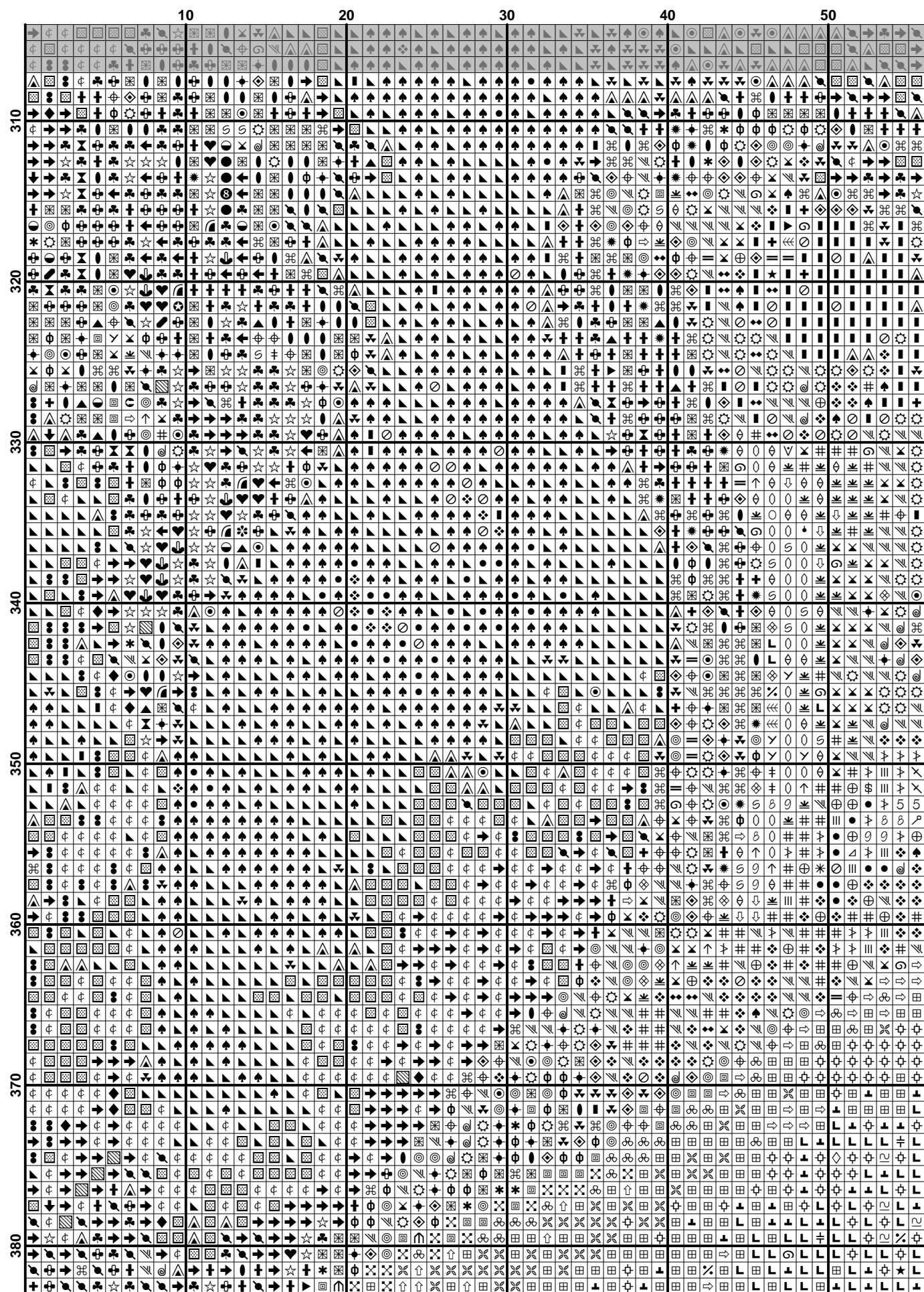


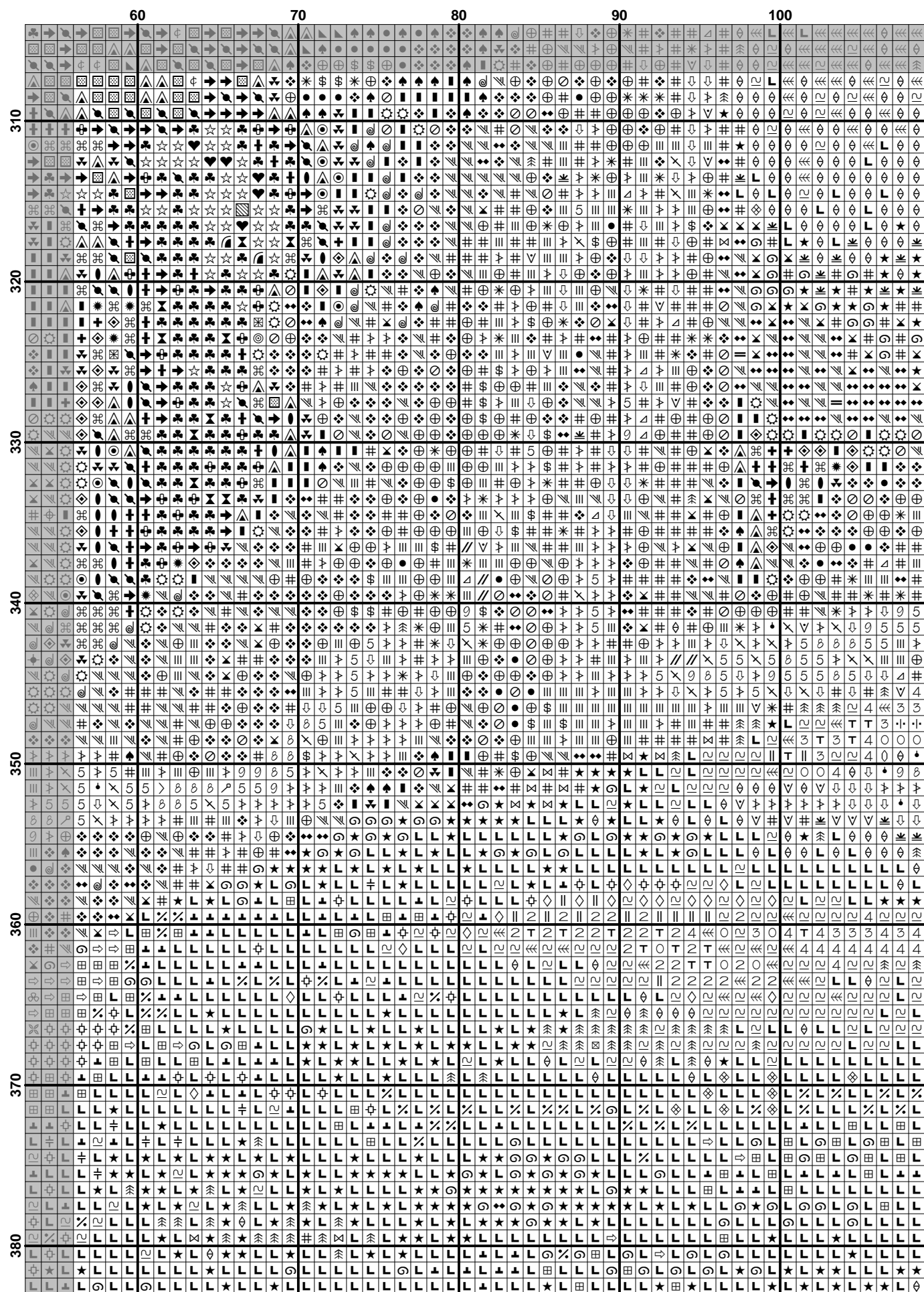
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[illegible]

[illegible]

(35)





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

[illegible]

$$(40) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

[illegible]

[illegible]

[illegible]

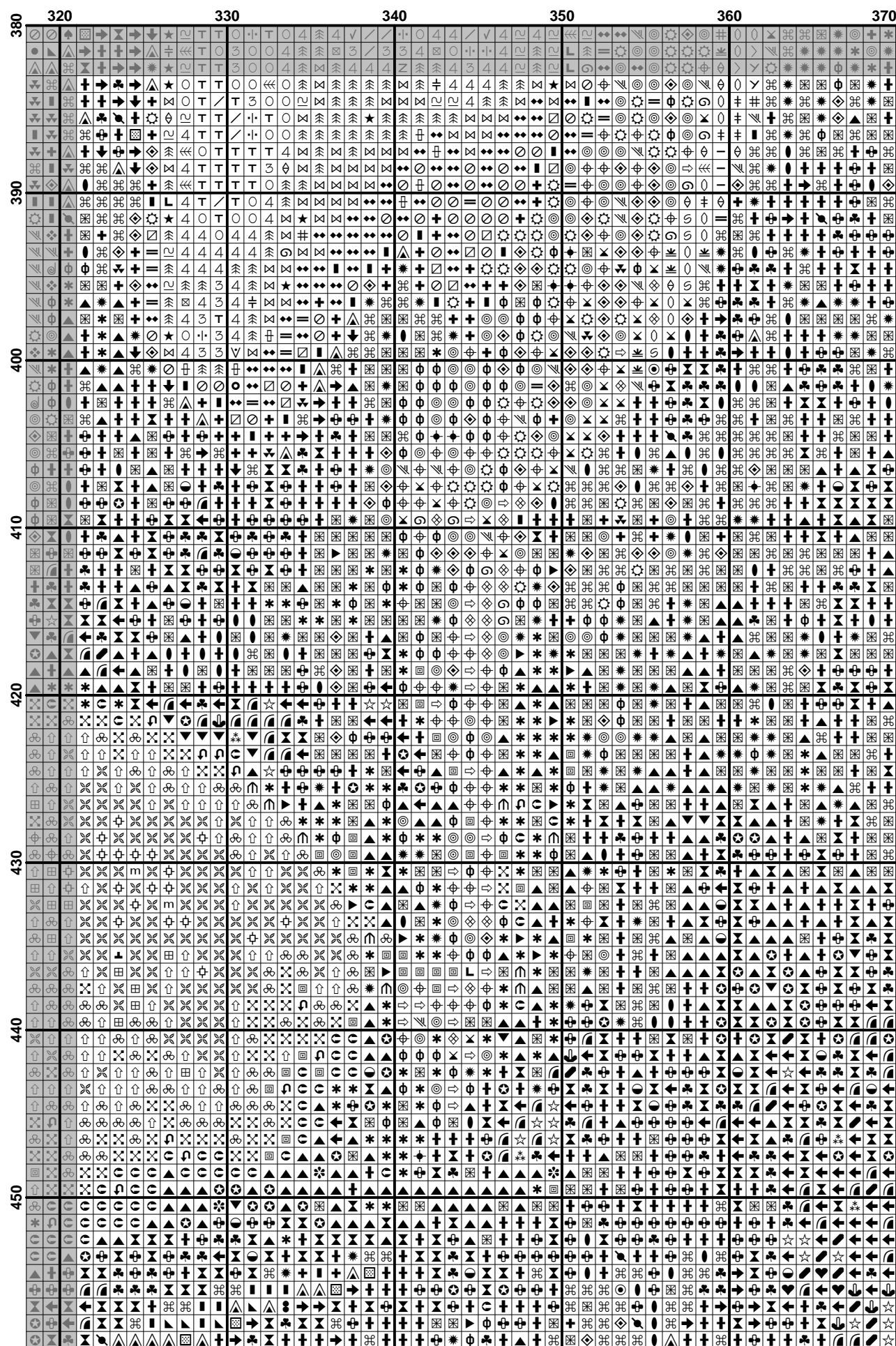
$$(44) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

$$(45) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

380	160	170	180	190	200	210
390	3	4	4	4	4	4
400	4	4	4	4	4	4
410	4	4	4	4	4	4
420	4	4	4	4	4	4
430	4	4	4	4	4	4
440	4	4	4	4	4	4
450	4	4	4	4	4	4
460	4	4	4	4	4	4
470	4	4	4	4	4	4
480	4	4	4	4	4	4
490	4	4	4	4	4	4
500	4	4	4	4	4	4
510	4	4	4	4	4	4
520	4	4	4	4	4	4
530	4	4	4	4	4	4
540	4	4	4	4	4	4
550	4	4	4	4	4	4
560	4	4	4	4	4	4
570	4	4	4	4	4	4
580	4	4	4	4	4	4
590	4	4	4	4	4	4
600	4	4	4	4	4	4
610	4	4	4	4	4	4
620	4	4	4	4	4	4
630	4	4	4	4	4	4
640	4	4	4	4	4	4
650	4	4	4	4	4	4
660	4	4	4	4	4	4
670	4	4	4	4	4	4
680	4	4	4	4	4	4
690	4	4	4	4	4	4
700	4	4	4	4	4	4
710	4	4	4	4	4	4
720	4	4	4	4	4	4
730	4	4	4	4	4	4
740	4	4	4	4	4	4
750	4	4	4	4	4	4
760	4	4	4	4	4	4
770	4	4	4	4	4	4
780	4	4	4	4	4	4
790	4	4	4	4	4	4
800	4	4	4	4	4	4
810	4	4	4	4	4	4
820	4	4	4	4	4	4
830	4	4	4	4	4	4
840	4	4	4	4	4	4
850	4	4	4	4	4	4
860	4	4	4	4	4	4
870	4	4	4	4	4	4
880	4	4	4	4	4	4
890	4	4	4	4	4	4
900	4	4	4	4	4	4
910	4	4	4	4	4	4
920	4	4	4	4	4	4
930	4	4	4	4	4	4
940	4	4	4	4	4	4
950	4	4	4	4	4	4
960	4	4	4	4	4	4
970	4	4	4	4	4	4
980	4	4	4	4	4	4
990	4	4	4	4	4	4
1000	4	4	4	4	4	4

[illegible]





[illegible]

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