

## 490 Le Moulin de la Galette



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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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## Le Moulin de la Galette

Stitch Count	
Horizontal:	700
Vertical:	515

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:	127	49.98	94	36.64	112	43.73	82	32.06	99	38.875	73	28.5
Including Margins:	143	56	110	43	128	50	98	39	115	45	89	35
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	177	69.97	131	51.29	148	58.31	109	42.74	74	29.15	54	21.37
Including Margins:	193	76	147	58	164	65	125	49	90	36	70	28
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	71	27.98	52	20.51	68	26.91	50	19.72	65	25.91	48	18.99
Including Margins:	87	34	68	27	84	33	66	26	81	32	64	25
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	63	24.99	47	18.32	59	23.32	43	17.09	55	21.86	41	16.03
Including Margins:	79	31	63	25	75	30	59	24	71	28	57	23

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
	317	Pewter Gray
	402	Mahogany-VY LT
	413	Pewter Gray-DK
	420	Hazelnut Brown-DK
	422	Hazelnut Brown-LT
	434	Brown-LT
	435	Brown-VY LT
	436	Tan
	437	Tan-LT
	520	Fern Green-DK
	522	Fern Green
	523	Fern Green-LT
	611	Drab Brown
	612	Drab Brown-LT
	645	Beaver Gray-VY DK
	646	Beaver Gray-DK
	647	Beaver Gray-MD
	648	Beaver Gray-LT
	676	Old Gold-LT
	680	Old Gold-DK
	712	Cream
	726	Topaz-LT
	729	Old Gold-MD
	730	Olive Green-VY DK
	731	Olive Green-DK
	732	Olive Green
	738	Tan-VY LT
	743	Yellow-MD
	745	Yellow-LT Pale
	762	Pearl Gray-VY LT
	780	Topaz-UL VY DK
	781	Topaz-VY DK
	782	Topaz-DK
	783	Topaz-MD
	822	Beige Gray-LT
	829	Golden Olive-VY DK
	833	Golden Olive-LT
	834	Golden Olive-VY LT
	926	Gray Green-MD
	927	Gray Green-LT
	928	Gray Green-VY LT
	931	Antique Blue-MD

	932	Antique Blue-LT
	934	Black Avocado Green
	935	Avocado Green-DK
	936	Avocado Green-VY DK
	938	Coffee Brown-UL DK
	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
	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
	3052	Green Gray-MD
	3053	Green Gray
	3078	Golden Yellow-VY LT
	3346	Hunter Green
	3347	Yellow Green-MD
	3362	Pine Green-DK
	3363	Pine Green-MD
	3371	Black Brown
	3747	Blue Violet-VY LT
	3753	Antique Blue-UL VY LT
	3768	Gray Green-DK
	3770	Tawny-VY LT
	3781	Mocha Brown-DK
	3787	Brown Gray-DK
	3790	Beige Gray-UL DK
	3799	Pewter Gray-VY DK
	3820	Straw-DK
	3823	Yellow-UL Pale
	3827	Golden Brown-Pale
	3828	Hazelnut Brown
	3829	Old Gold-VY DK
	3854	Autumn Gold-MD
	3855	Autumn Gold-LT
	3856	Mahogany-UL VY LT
	3864	Mocha Beige-LT

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

Symbol	DMC1	Name1	DMC2	Name2
√	3855	Autumn Gold-LT	745	Yellow-LT Pale
⊙	926	Gray Green-MD	927	Gray Green-LT
✦	3827	Golden Brown-Pale	3855	Autumn Gold-LT
⌘	977	Golden Brown-LT	976	Golden Brown-MD
✕	830	Golden Olive-DK	3031	Mocha Brown-VY DK
⊕	783	Topaz-MD	782	Topaz-DK
✦	927	Gray Green-LT	414	Steel Gray-DK
⌘	3827	Golden Brown-Pale	676	Old Gold-LT
/	676	Old Gold-LT	677	Old Gold-VY LT
⊙	869	Hazelnut Brown-VY DK	732	Olive Green
⌘	935	Avocado Green-DK	937	Avocado Green-MD
○	745	Yellow-LT Pale	950	Desert Sand-LT
::	822	Beige Gray-LT	3823	Yellow-UL Pale
↔	3854	Autumn Gold-MD	743	Yellow-MD
▲	3790	Beige Gray-UL DK	3363	Pine Green-MD
☆	938	Coffee Brown-UL DK	829	Golden Olive-VY DK
■	938	Coffee Brown-UL DK	3371	Black Brown
⌘	3781	Mocha Brown-DK	3362	Pine Green-DK
	932	Antique Blue-LT	928	Gray Green-VY LT
⌘	3045	Yellow Beige-DK	422	Hazelnut Brown-LT
⌘	729	Old Gold-MD	3827	Golden Brown-Pale
✦	3012	Khaki Green-MD	3347	Yellow Green-MD
⊕	783	Topaz-MD	3820	Straw-DK

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	
317	Pewter Gray	96	37	91	35	82	32
402	Mahogany-VY LT	31	12	29	11	26	10
413	Pewter Gray-DK	220	86	209	82	188	74
414	Steel Gray-DK	87	34	83	32	75	29
420	Hazelnut Brown-DK	762	300	726	285	653	257
422	Hazelnut Brown-LT	1054	414	1004	395	903	355
434	Brown-LT	139	54	132	51	119	46
435	Brown-VY LT	198	77	189	74	170	66
436	Tan	268	105	255	100	230	90
437	Tan-LT	387	152	368	144	331	130
520	Fern Green-DK	527	207	502	197	452	177
522	Fern Green	750	295	714	281	643	253
523	Fern Green-LT	476	187	453	178	408	160
611	Drab Brown	1959	771	1865	734	1679	661
612	Drab Brown-LT	1240	488	1181	464	1063	418
645	Beaver Gray-VY DK	721	283	686	270	618	243
646	Beaver Gray-DK	876	344	834	328	751	295
647	Beaver Gray-MD	827	325	788	310	709	279
648	Beaver Gray-LT	1349	531	1285	505	1156	455
676	Old Gold-LT	921	362	877	345	789	310
677	Old Gold-VY LT	579	227	551	216	496	195
680	Old Gold-DK	1071	421	1020	401	918	361
712	Cream	202	79	192	75	173	68
726	Topaz-LT	171	67	163	64	146	57
729	Old Gold-MD	1005	395	957	376	861	338
730	Olive Green-VY DK	2125	836	2024	796	1822	717
731	Olive Green-DK	1583	623	1508	593	1357	534
732	Olive Green	1046	411	996	392	897	353
738	Tan-VY LT	1351	531	1287	506	1158	455
743	Yellow-MD	514	202	489	192	440	173
745	Yellow-LT Pale	1016	400	967	380	870	342
762	Pearl Gray-VY LT	140	55	133	52	120	47
780	Topaz-UL VY DK	143	56	137	53	123	48
781	Topaz-VY DK	185	72	176	69	158	62
782	Topaz-DK	466	183	443	174	399	157
783	Topaz-MD	1147	451	1092	429	983	387
822	Beige Gray-LT	1230	484	1172	461	1055	415
829	Golden Olive-VY DK	2056	809	1958	770	1762	693
830	Golden Olive-DK	781	307	744	292	669	263
833	Golden Olive-LT	437	172	416	163	374	147
834	Golden Olive-VY LT	320	125	304	119	274	107
869	Hazelnut Brown-VY DK	588	231	560	220	504	198
926	Gray Green-MD	467	183	445	175	400	157
927	Gray Green-LT	791	311	753	296	678	266
928	Gray Green-VY LT	704	277	671	264	603	237
931	Antique Blue-MD	55	21	52	20	47	18
932	Antique Blue-LT	344	135	327	128	295	116
934	Black Avocado Green	1613	635	1536	604	1382	544
935	Avocado Green-DK	2410	948	2295	903	2065	812
936	Avocado Green-VY DK	1550	610	1476	581	1329	523
937	Avocado Green-MD	347	136	330	129	297	116
938	Coffee Brown-UL DK	6001	2362	5716	2250	5144	2025
950	Desert Sand-LT	1214	477	1156	455	1041	409

976	Golden Brown-MD	362	142	345	135	310	122
977	Golden Brown-LT	463	182	441	173	396	155
3011	Khaki Green-DK	3397	1337	3235	1273	2912	1146
3012	Khaki Green-MD	3254	1281	3099	1220	2789	1098
3021	Brown Gray-VY DK	1446	569	1378	542	1240	488
3022	Brown Gray-MD	806	317	767	301	690	271
3023	Brown Gray-LT	953	375	908	357	817	321
3024	Brown Gray-VY LT	823	324	784	308	706	277
3031	Mocha Brown-VY DK	2988	1176	2845	1120	2561	1008
3032	Mocha Brown-MD	1505	592	1433	564	1290	507
3041	Antique Violet-MD	9	3	8	3	7	2
3045	Yellow Beige-DK	1208	475	1151	453	1036	407
3046	Yellow Beige-MD	446	175	425	167	382	150
3052	Green Gray-MD	1430	562	1362	536	1226	482
3053	Green Gray	1033	406	984	387	885	348
3078	Golden Yellow-VY LT	212	83	202	79	182	71
3346	Hunter Green	546	214	520	204	468	184
3347	Yellow Green-MD	689	271	656	258	590	232
3362	Pine Green-DK	2083	820	1984	781	1785	702
3363	Pine Green-MD	1425	561	1357	534	1221	480
3371	Black Brown	15324	6033	14594	5745	13135	5171
3747	Blue Violet-VY LT	49	19	47	18	42	16
3753	Antique Blue-UL VY LT	87	34	83	32	74	29
3768	Gray Green-DK	105	41	100	39	90	35
3770	Tawny-VY LT	538	211	512	201	461	181
3781	Mocha Brown-DK	1486	585	1415	557	1274	501
3787	Brown Gray-DK	1449	570	1380	543	1242	488
3790	Beige Gray-UL DK	1608	633	1532	603	1378	542
3799	Pewter Gray-VY DK	134	52	128	50	115	45
3820	Straw-DK	934	367	890	350	801	315
3823	Yellow-UL Pale	1632	642	1554	611	1399	550
3827	Golden Brown-Pale	1238	487	1179	464	1061	417
3828	Hazelnut Brown	1409	554	1342	528	1208	475
3829	Old Gold-VY DK	800	314	762	300	686	270
3854	Autumn Gold-MD	569	224	542	213	488	192
3855	Autumn Gold-LT	1084	426	1032	406	929	365
3856	Mahogany-UL VY LT	524	206	499	196	449	176
3864	Mocha Beige-LT	1108	436	1055	415	949	373

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
317	Pewter Gray	148	58	123	48	62	24
402	Mahogany-VY LT	47	18	39	15	20	8
413	Pewter Gray-DK	338	133	282	111	141	56
414	Steel Gray-DK	135	52	113	44	56	22
420	Hazelnut Brown-DK	1175	463	980	386	490	193
422	Hazelnut Brown-LT	1625	639	1355	533	677	266
434	Brown-LT	214	83	179	69	89	35
435	Brown-VY LT	306	119	255	99	128	50
436	Tan	414	162	345	135	173	68
437	Tan-LT	596	234	497	195	248	98
520	Fern Green-DK	814	319	678	266	339	133
522	Fern Green	1157	455	965	380	482	190
523	Fern Green-LT	734	288	612	240	306	120
611	Drab Brown	3022	1190	2519	992	1259	496



612	Drab Brown-LT	1913	752	1595	627	797	314
645	Beaver Gray-VY DK	1112	437	927	365	464	182
646	Beaver Gray-DK	1352	531	1127	443	563	221
647	Beaver Gray-MD	1276	502	1064	419	532	209
648	Beaver Gray-LT	2081	819	1734	683	867	341
676	Old Gold-LT	1420	558	1184	465	592	233
677	Old Gold-VY LT	893	351	744	293	372	146
680	Old Gold-DK	1652	650	1377	542	689	271
712	Cream	311	122	260	102	130	51
726	Topaz-LT	263	103	219	86	110	43
729	Old Gold-MD	1550	608	1292	507	646	254
730	Olive Green-VY DK	3280	1291	2733	1076	1367	538
731	Olive Green-DK	2443	961	2036	801	1018	401
732	Olive Green	1615	635	1346	530	673	265
738	Tan-VY LT	2084	819	1737	683	869	341
743	Yellow-MD	792	311	660	260	330	130
745	Yellow-LT Pale	1566	616	1305	513	653	257
762	Pearl Gray-VY LT	216	85	180	71	90	35
780	Topaz-UL VY DK	221	86	185	72	92	36
781	Topaz-VY DK	284	112	237	93	119	47
782	Topaz-DK	718	283	599	236	299	118
783	Topaz-MD	1769	697	1475	581	737	290
822	Beige Gray-LT	1899	747	1583	623	791	311
829	Golden Olive-VY DK	3172	1247	2643	1040	1322	520
830	Golden Olive-DK	1204	473	1004	395	502	197
833	Golden Olive-LT	673	265	561	221	281	110
834	Golden Olive-VY LT	493	193	411	161	206	80
869	Hazelnut Brown-VY DK	907	356	756	297	378	149
926	Gray Green-MD	720	283	600	236	300	118
927	Gray Green-LT	1220	479	1017	399	509	200
928	Gray Green-VY LT	1085	427	905	356	452	178
931	Antique Blue-MD	85	32	71	27	35	14
932	Antique Blue-LT	531	209	443	174	221	87
934	Black Avocado Green	2488	979	2073	816	1037	408
935	Avocado Green-DK	3717	1462	3098	1218	1549	609
936	Avocado Green-VY DK	2392	941	1994	785	997	392
937	Avocado Green-MD	535	209	446	174	223	87
938	Coffee Brown-UL DK	9259	3645	7716	3038	3858	1519
950	Desert Sand-LT	1874	736	1562	614	781	307
976	Golden Brown-MD	558	220	465	183	233	92
977	Golden Brown-LT	713	279	594	233	297	116
3011	Khaki Green-DK	5242	2063	4368	1719	2184	860
3012	Khaki Green-MD	5020	1976	4184	1647	2092	824
3021	Brown Gray-VY DK	2232	878	1860	732	930	366
3022	Brown Gray-MD	1242	488	1035	407	518	203
3023	Brown Gray-LT	1471	578	1226	482	613	241
3024	Brown Gray-VY LT	1271	499	1059	416	530	208
3031	Mocha Brown-VY DK	4610	1814	3842	1512	1921	756
3032	Mocha Brown-MD	2322	913	1935	761	968	380
3041	Antique Violet-MD	13	4	11	3	5	2
3045	Yellow Beige-DK	1865	733	1554	611	777	305
3046	Yellow Beige-MD	688	270	573	225	287	113
3052	Green Gray-MD	2207	868	1839	723	920	362
3053	Green Gray	1593	626	1328	522	664	261
3078	Golden Yellow-VY LT	328	128	273	107	137	53
3346	Hunter Green	842	331	702	276	351	138
3347	Yellow Green-MD	1062	418	885	348	443	174
3362	Pine Green-DK	3213	1264	2678	1053	1339	527
3363	Pine Green-MD	2198	864	1832	720	916	360

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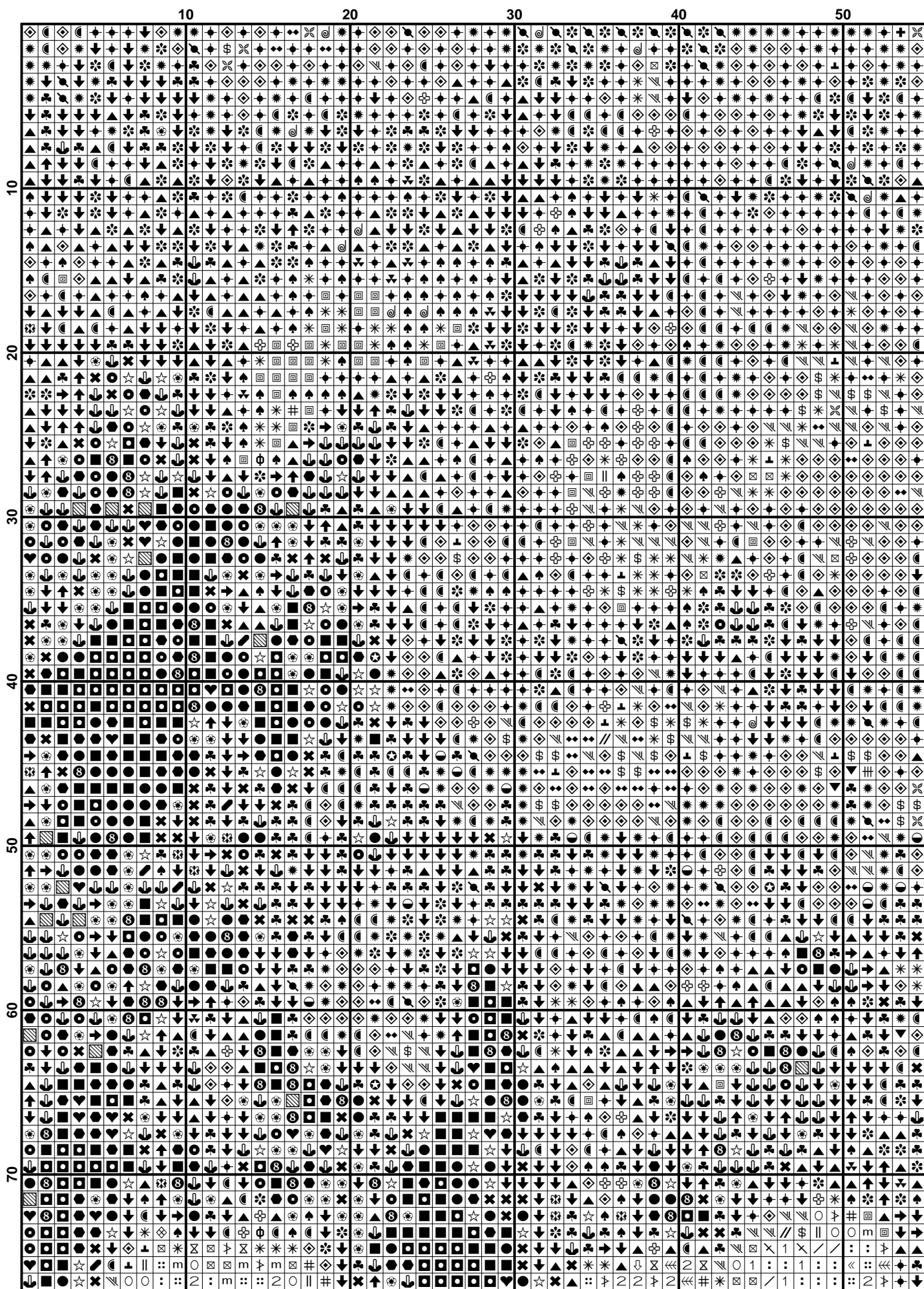
3371	Black Brown	23643	9308	19703	7757	9851	3878
3747	Blue Violet-VY LT	76	29	63	24	32	12
3753	Antique Blue-UL VY LT	133	52	111	44	56	22
3768	Gray Green-DK	162	63	135	53	68	26
3770	Tawny-VY LT	830	326	692	272	346	136
3781	Mocha Brown-DK	2293	902	1911	752	956	376
3787	Brown Gray-DK	2236	878	1863	732	932	366
3790	Beige Gray-UL DK	2480	976	2067	813	1034	407
3799	Pewter Gray-VY DK	207	81	173	68	86	34
3820	Straw-DK	1442	567	1202	473	601	236
3823	Yellow-UL Pale	2518	990	2099	825	1049	413
3827	Golden Brown-Pale	1910	751	1592	626	796	313
3828	Hazelnut Brown	2174	855	1812	713	906	356
3829	Old Gold-VY DK	1235	486	1029	405	515	203
3854	Autumn Gold-MD	878	346	732	288	366	144
3855	Autumn Gold-LT	1672	657	1394	548	697	274
3856	Mahogany-UL VY LT	808	317	674	264	337	132
3864	Mocha Beige-LT	1708	671	1424	560	712	280

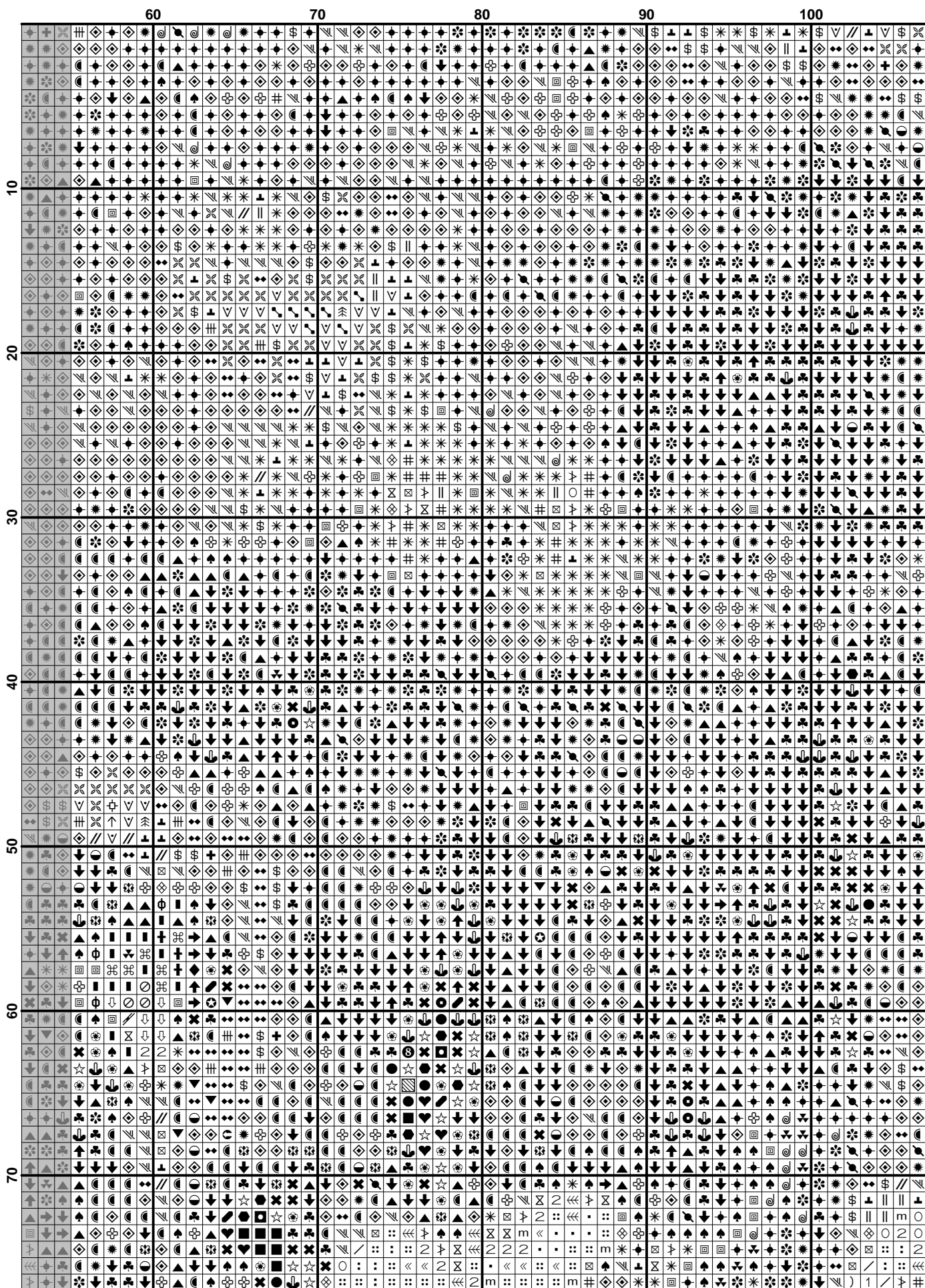
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
317	Pewter Gray	59	23	57	22	55	21
402	Mahogany-VY LT	19	7	18	7	17	7
413	Pewter Gray-DK	135	53	130	51	125	49
414	Steel Gray-DK	54	21	52	20	50	19
420	Hazelnut Brown-DK	470	185	452	178	435	171
422	Hazelnut Brown-LT	650	256	625	246	602	237
434	Brown-LT	86	33	82	32	79	31
435	Brown-VY LT	122	48	118	46	113	44
436	Tan	166	65	159	62	153	60
437	Tan-LT	238	94	229	90	221	87
520	Fern Green-DK	325	127	313	123	301	118
522	Fern Green	463	182	445	175	429	169
523	Fern Green-LT	294	115	282	111	272	107
611	Drab Brown	1209	476	1162	458	1119	441
612	Drab Brown-LT	765	301	736	289	709	279
645	Beaver Gray-VY DK	445	175	428	168	412	162
646	Beaver Gray-DK	541	212	520	204	501	197
647	Beaver Gray-MD	510	201	491	193	473	186
648	Beaver Gray-LT	832	328	800	315	771	303
676	Old Gold-LT	568	223	546	215	526	207
677	Old Gold-VY LT	357	140	343	135	331	130
680	Old Gold-DK	661	260	636	250	612	241
712	Cream	125	49	120	47	115	45
726	Topaz-LT	105	41	101	39	97	38
729	Old Gold-MD	620	243	596	234	574	225
730	Olive Green-VY DK	1312	516	1261	496	1215	478
731	Olive Green-DK	977	384	939	370	905	356
732	Olive Green	646	254	621	244	598	235
738	Tan-VY LT	834	328	802	315	772	303
743	Yellow-MD	317	125	305	120	293	115
745	Yellow-LT Pale	626	246	602	237	580	228
762	Pearl Gray-VY LT	86	34	83	33	80	31
780	Topaz-UL VY DK	89	35	85	33	82	32
781	Topaz-VY DK	114	45	109	43	105	41

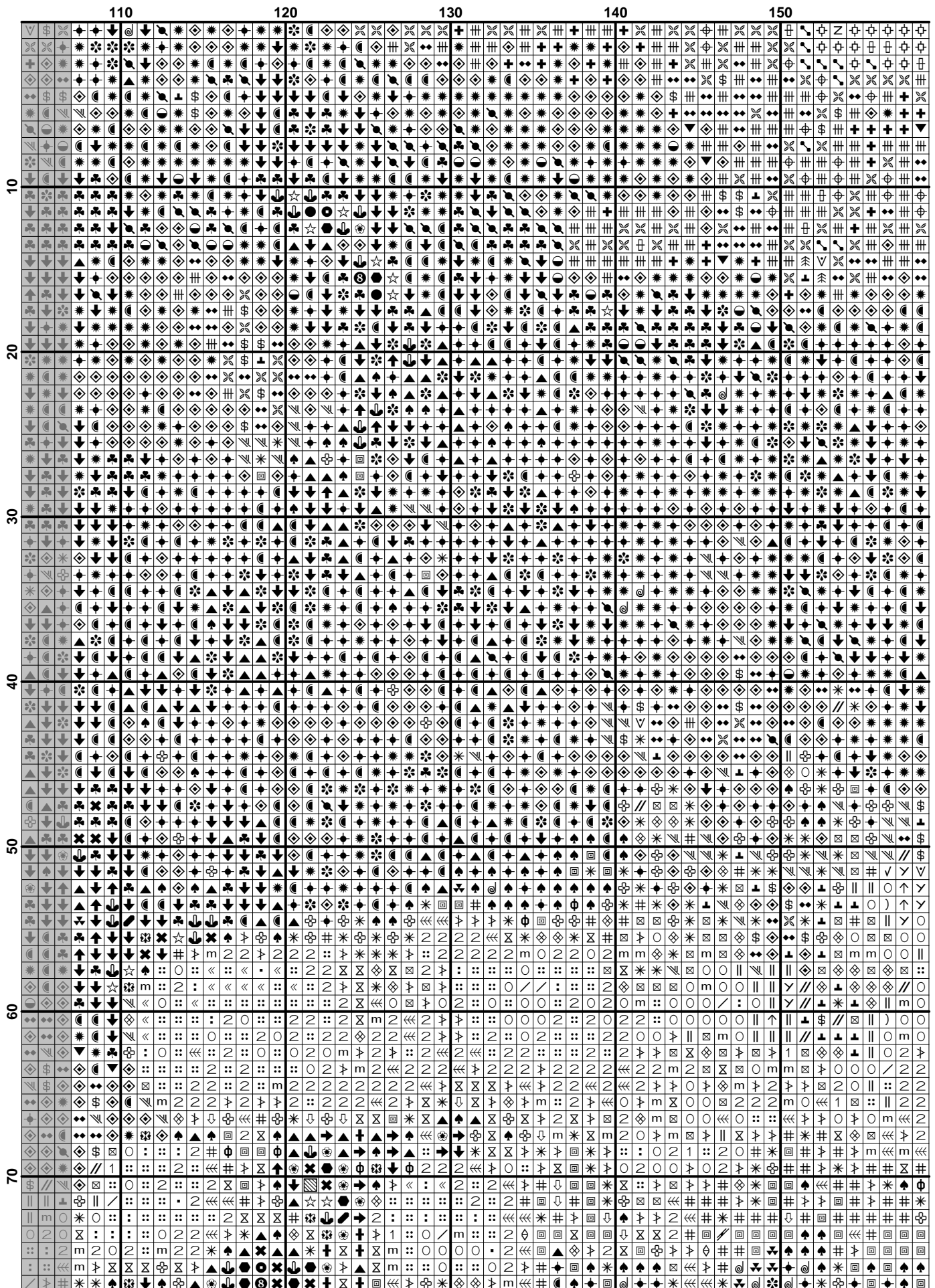
782	Topaz-DK	287	113	276	109	266	105
783	Topaz-MD	708	279	681	268	655	258
822	Beige Gray-LT	760	299	730	287	703	277
829	Golden Olive-VY DK	1269	499	1220	480	1175	462
830	Golden Olive-DK	482	189	463	182	446	175
833	Golden Olive-LT	269	106	259	102	249	98
834	Golden Olive-VY LT	197	77	190	74	183	71
869	Hazelnut Brown-VY DK	363	143	349	137	336	132
926	Gray Green-MD	288	113	277	109	267	105
927	Gray Green-LT	488	192	469	184	452	177
928	Gray Green-VY LT	434	171	417	164	402	158
931	Antique Blue-MD	34	13	33	12	31	12
932	Antique Blue-LT	212	84	204	80	197	77
934	Black Avocado Green	995	392	957	377	921	363
935	Avocado Green-DK	1487	585	1430	562	1377	541
936	Avocado Green-VY DK	957	377	920	362	886	349
937	Avocado Green-MD	214	84	206	80	198	77
938	Coffee Brown-UL DK	3704	1458	3561	1402	3429	1350
950	Desert Sand-LT	750	294	721	283	694	273
976	Golden Brown-MD	223	88	215	84	207	81
977	Golden Brown-LT	285	112	274	107	264	103
3011	Khaki Green-DK	2097	825	2016	793	1941	764
3012	Khaki Green-MD	2008	791	1931	760	1859	732
3021	Brown Gray-VY DK	893	351	858	338	827	325
3022	Brown Gray-MD	497	195	478	188	460	181
3023	Brown Gray-LT	588	231	566	222	545	214
3024	Brown Gray-VY LT	508	199	489	192	471	185
3031	Mocha Brown-VY DK	1844	726	1773	698	1707	672
3032	Mocha Brown-MD	929	365	893	351	860	338
3041	Antique Violet-MD	5	1	5	1	5	1
3045	Yellow Beige-DK	746	293	717	282	691	271
3046	Yellow Beige-MD	275	108	264	104	255	100
3052	Green Gray-MD	883	347	849	334	817	321
3053	Green Gray	637	251	613	241	590	232
3078	Golden Yellow-VY LT	131	51	126	49	121	47
3346	Hunter Green	337	132	324	127	312	123
3347	Yellow Green-MD	425	167	408	161	393	155
3362	Pine Green-DK	1285	505	1236	486	1190	468
3363	Pine Green-MD	879	346	845	332	814	320
3371	Black Brown	9457	3723	9093	3580	8757	3447
3747	Blue Violet-VY LT	30	12	29	11	28	11
3753	Antique Blue-UL VY LT	53	21	51	20	49	19
3768	Gray Green-DK	65	25	62	24	60	23
3770	Tawny-VY LT	332	130	319	125	307	121
3781	Mocha Brown-DK	917	361	882	347	849	334
3787	Brown Gray-DK	894	351	860	338	828	325
3790	Beige Gray-UL DK	992	390	954	375	919	361
3799	Pewter Gray-VY DK	83	32	80	31	77	30
3820	Straw-DK	577	227	555	218	534	210
3823	Yellow-UL Pale	1007	396	969	381	933	367
3827	Golden Brown-Pale	764	300	735	289	707	278
3828	Hazelnut Brown	870	342	836	329	805	317
3829	Old Gold-VY DK	494	194	475	187	457	180
3854	Autumn Gold-MD	351	138	338	133	325	128
3855	Autumn Gold-LT	669	263	643	253	619	243
3856	Mahogany-UL VY LT	323	127	311	122	299	117
3864	Mocha Beige-LT	683	269	657	258	633	249

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
317	Pewter Gray	53	21	49	19	46	18
402	Mahogany-VY LT	17	6	16	6	15	6
413	Pewter Gray-DK	121	48	113	44	106	42
414	Steel Gray-DK	48	19	45	17	42	16
420	Hazelnut Brown-DK	420	165	392	154	367	145
422	Hazelnut Brown-LT	581	228	542	213	508	200
434	Brown-LT	77	30	71	28	67	26
435	Brown-VY LT	109	42	102	40	96	37
436	Tan	148	58	138	54	129	51
437	Tan-LT	213	84	199	78	186	73
520	Fern Green-DK	291	114	271	106	254	100
522	Fern Green	413	163	386	152	362	142
523	Fern Green-LT	262	103	245	96	230	90
611	Drab Brown	1079	425	1007	397	944	372
612	Drab Brown-LT	683	269	638	251	598	235
645	Beaver Gray-VY DK	397	156	371	146	348	137
646	Beaver Gray-DK	483	190	451	177	422	166
647	Beaver Gray-MD	456	179	425	167	399	157
648	Beaver Gray-LT	743	293	694	273	650	256
676	Old Gold-LT	507	199	473	186	444	174
677	Old Gold-VY LT	319	125	298	117	279	110
680	Old Gold-DK	590	232	551	217	516	203
712	Cream	111	44	104	41	97	38
726	Topaz-LT	94	37	88	34	82	32
729	Old Gold-MD	554	217	517	203	484	190
730	Olive Green-VY DK	1171	461	1093	430	1025	403
731	Olive Green-DK	872	343	814	320	763	300
732	Olive Green	577	227	538	212	505	199
738	Tan-VY LT	744	293	695	273	651	256
743	Yellow-MD	283	111	264	104	248	97
745	Yellow-LT Pale	559	220	522	205	489	192
762	Pearl Gray-VY LT	77	30	72	28	68	26
780	Topaz-UL VY DK	79	31	74	29	69	27
781	Topaz-VY DK	102	40	95	37	89	35
782	Topaz-DK	257	101	239	94	224	88
783	Topaz-MD	632	249	590	232	553	218
822	Beige Gray-LT	678	267	633	249	593	233
829	Golden Olive-VY DK	1133	446	1057	416	991	390
830	Golden Olive-DK	430	169	401	158	376	148
833	Golden Olive-LT	240	95	224	88	210	83
834	Golden Olive-VY LT	176	69	164	64	154	60
869	Hazelnut Brown-VY DK	324	127	302	119	284	111
926	Gray Green-MD	257	101	240	94	225	88
927	Gray Green-LT	436	171	407	160	381	150
928	Gray Green-VY LT	388	152	362	142	339	133
931	Antique Blue-MD	30	12	28	11	26	10
932	Antique Blue-LT	190	75	177	70	166	65
934	Black Avocado Green	888	350	829	326	777	306
935	Avocado Green-DK	1328	522	1239	487	1162	457
936	Avocado Green-VY DK	854	336	797	314	748	294
937	Avocado Green-MD	191	75	178	70	167	65
938	Coffee Brown-UL DK	3307	1302	3086	1215	2894	1139
950	Desert Sand-LT	669	263	625	245	586	230
976	Golden Brown-MD	199	78	186	73	174	69

977	Golden Brown-LT	255	100	238	93	223	87
3011	Khaki Green-DK	1872	737	1747	688	1638	645
3012	Khaki Green-MD	1793	706	1673	659	1569	618
3021	Brown Gray-VY DK	797	314	744	293	698	275
3022	Brown Gray-MD	444	174	414	163	388	152
3023	Brown Gray-LT	525	206	490	193	460	181
3024	Brown Gray-VY LT	454	178	424	166	397	156
3031	Mocha Brown-VY DK	1646	648	1537	605	1441	567
3032	Mocha Brown-MD	829	326	774	304	726	285
3041	Antique Violet-MD	5	1	4	1	4	1
3045	Yellow Beige-DK	666	262	622	244	583	229
3046	Yellow Beige-MD	246	96	229	90	215	84
3052	Green Gray-MD	788	310	736	289	690	271
3053	Green Gray	569	224	531	209	498	196
3078	Golden Yellow-VY LT	117	46	109	43	102	40
3346	Hunter Green	301	118	281	110	263	104
3347	Yellow Green-MD	379	149	354	139	332	131
3362	Pine Green-DK	1148	451	1071	421	1004	395
3363	Pine Green-MD	785	309	733	288	687	270
3371	Black Brown	8444	3324	7881	3103	7388	2909
3747	Blue Violet-VY LT	27	10	25	10	24	9
3753	Antique Blue-UL VY LT	48	19	44	17	42	16
3768	Gray Green-DK	58	23	54	21	51	20
3770	Tawny-VY LT	296	116	277	109	259	102
3781	Mocha Brown-DK	819	322	764	301	717	282
3787	Brown Gray-DK	798	314	745	293	699	275
3790	Beige Gray-UL DK	886	348	827	325	775	305
3799	Pewter Gray-VY DK	74	29	69	27	65	25
3820	Straw-DK	515	203	481	189	451	177
3823	Yellow-UL Pale	899	354	839	330	787	309
3827	Golden Brown-Pale	682	268	637	250	597	235
3828	Hazelnut Brown	777	305	725	285	680	267
3829	Old Gold-VY DK	441	174	412	162	386	152
3854	Autumn Gold-MD	314	123	293	115	275	108
3855	Autumn Gold-LT	597	235	557	219	523	205
3856	Mahogany-UL VY LT	289	113	269	106	253	99
3864	Mocha Beige-LT	610	240	569	224	534	210





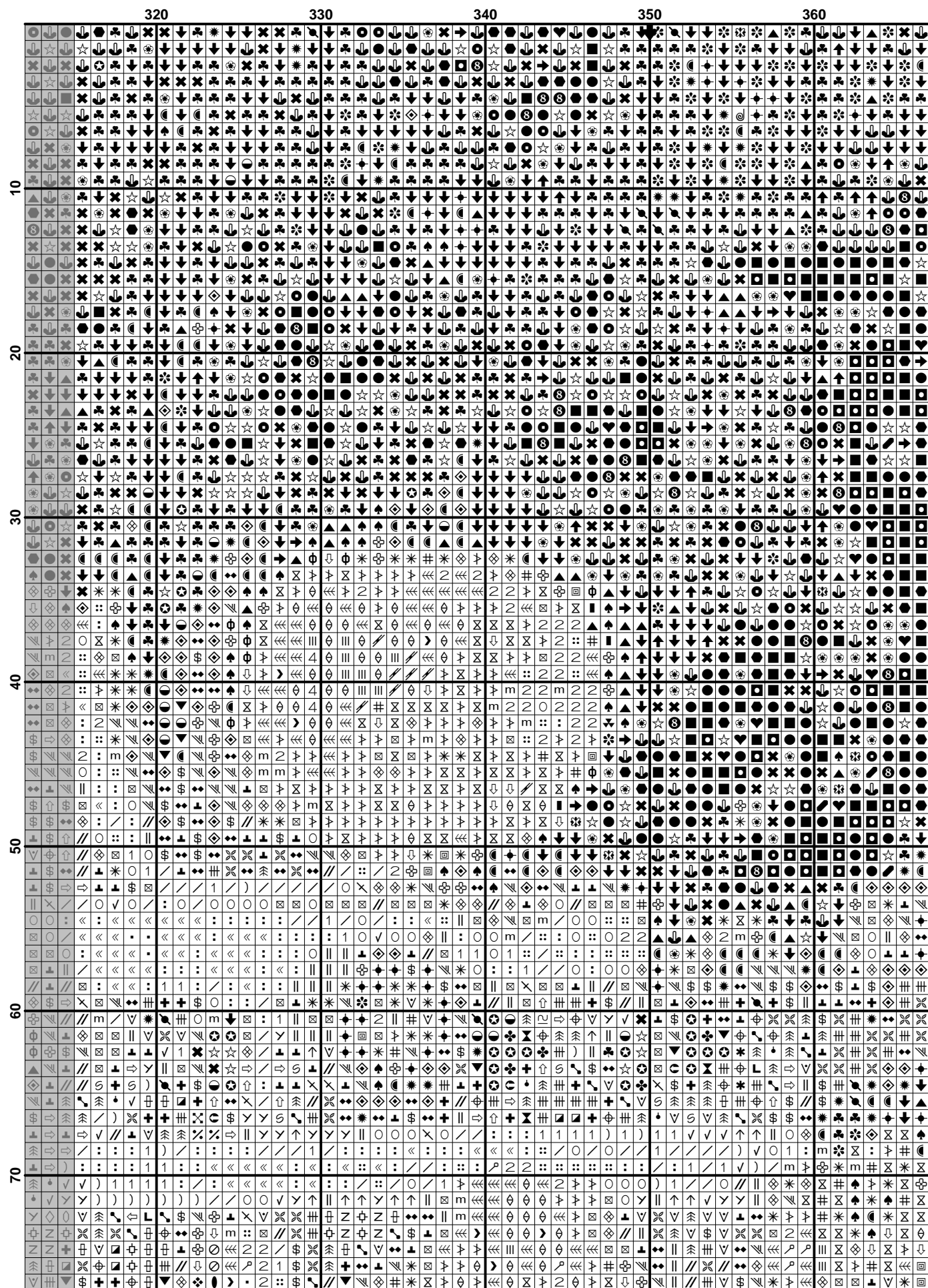




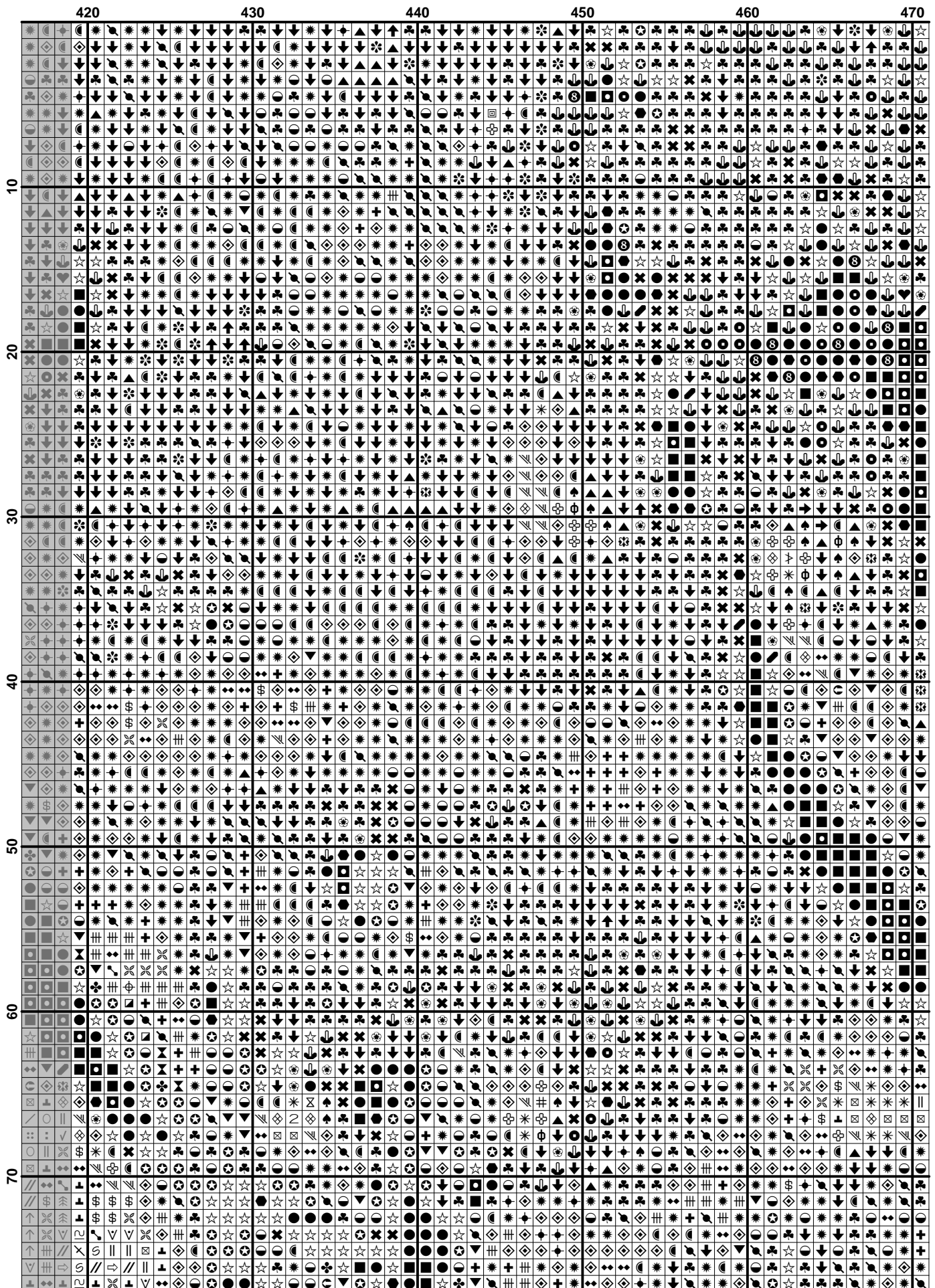
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20	...	...	...	...	...	...
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70	...	...	...	...	...	...

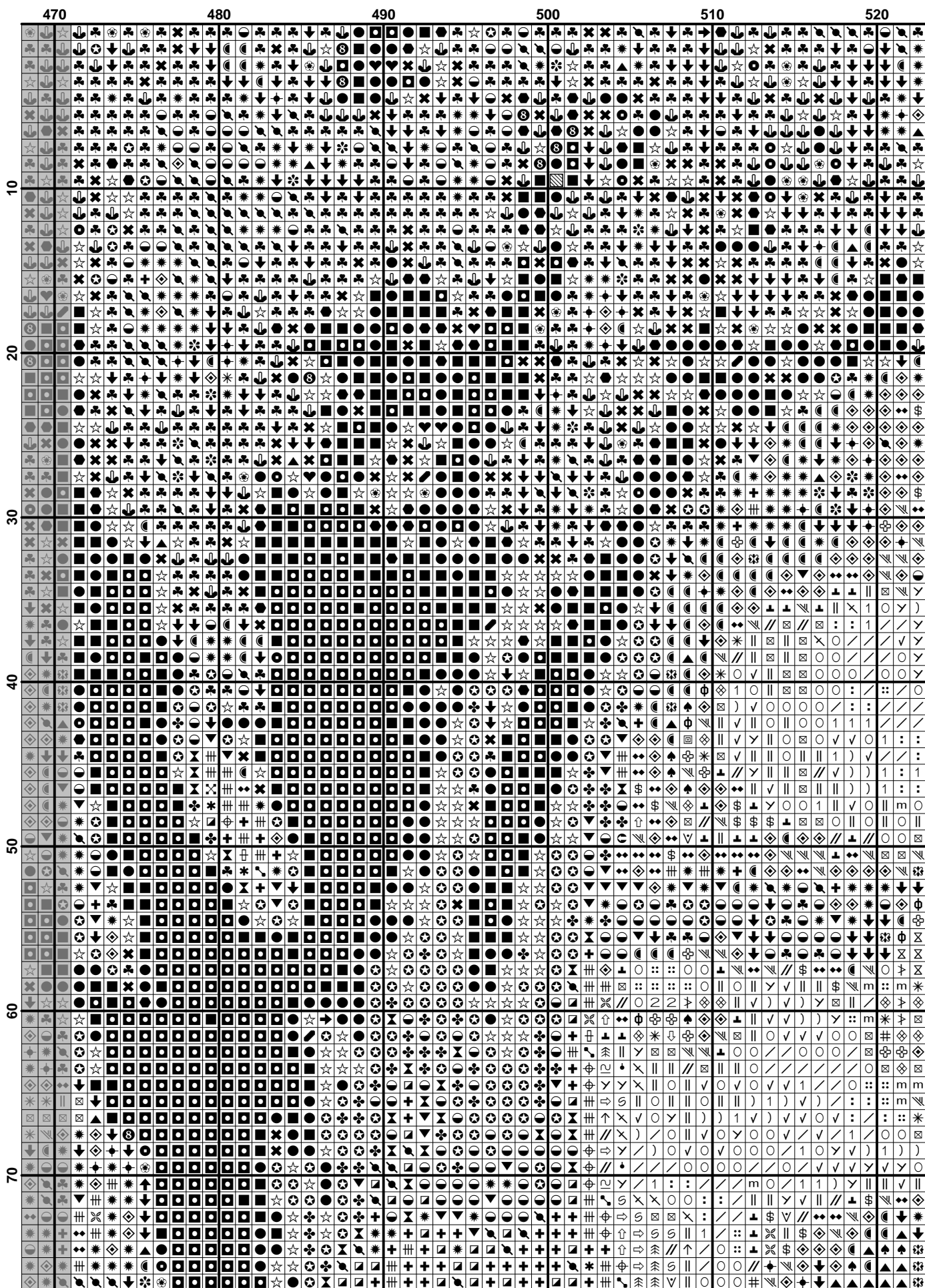
	210	220	230	240	250	260
10	...	...	...	...	...	...
20	...	...	...	...	...	...
30	...	...	...	...	...	...
40	...	...	...	...	...	...
50	...	...	...	...	...	...
60	...	...	...	...	...	...
70	...	...	...	...	...	...







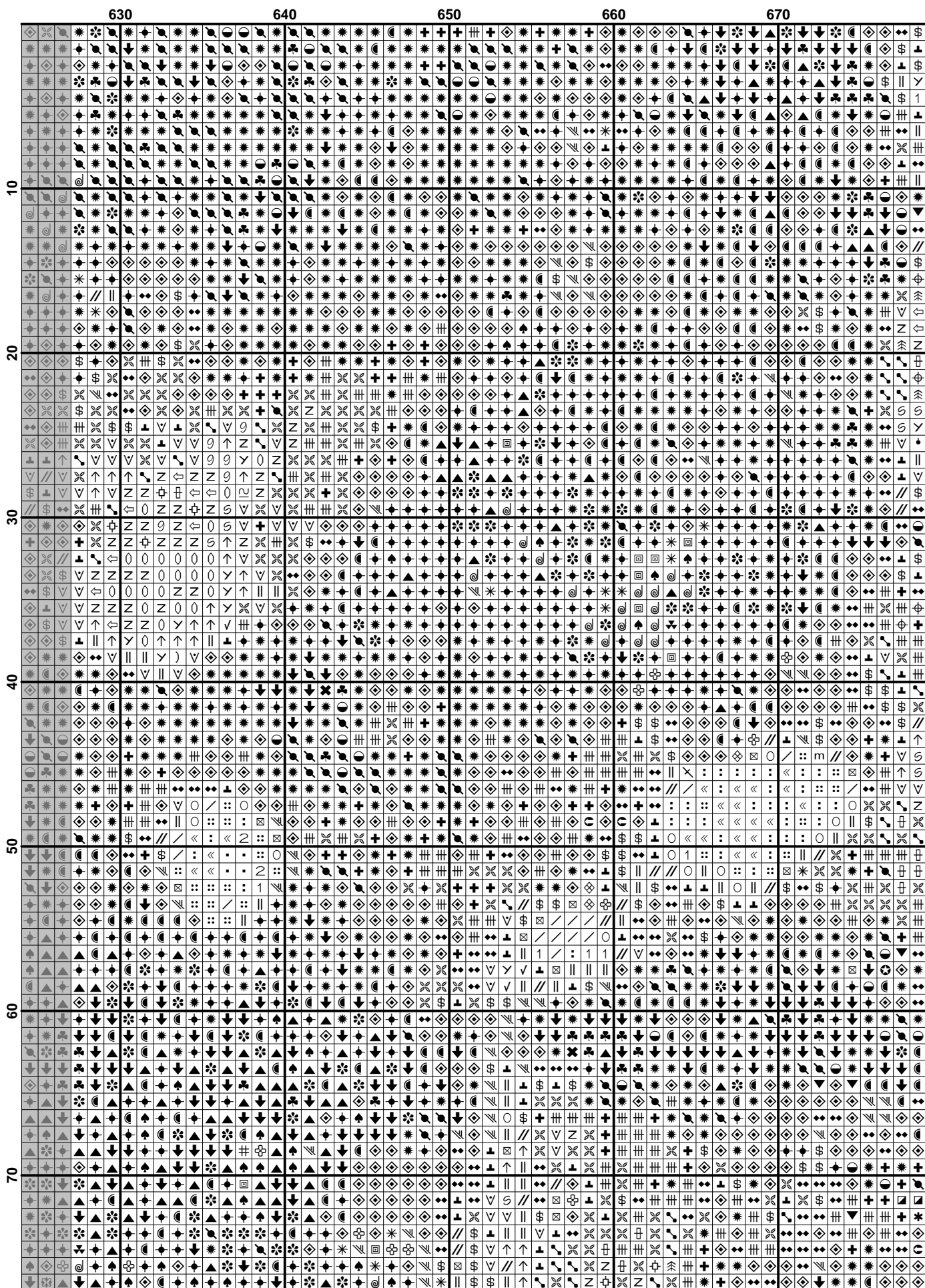




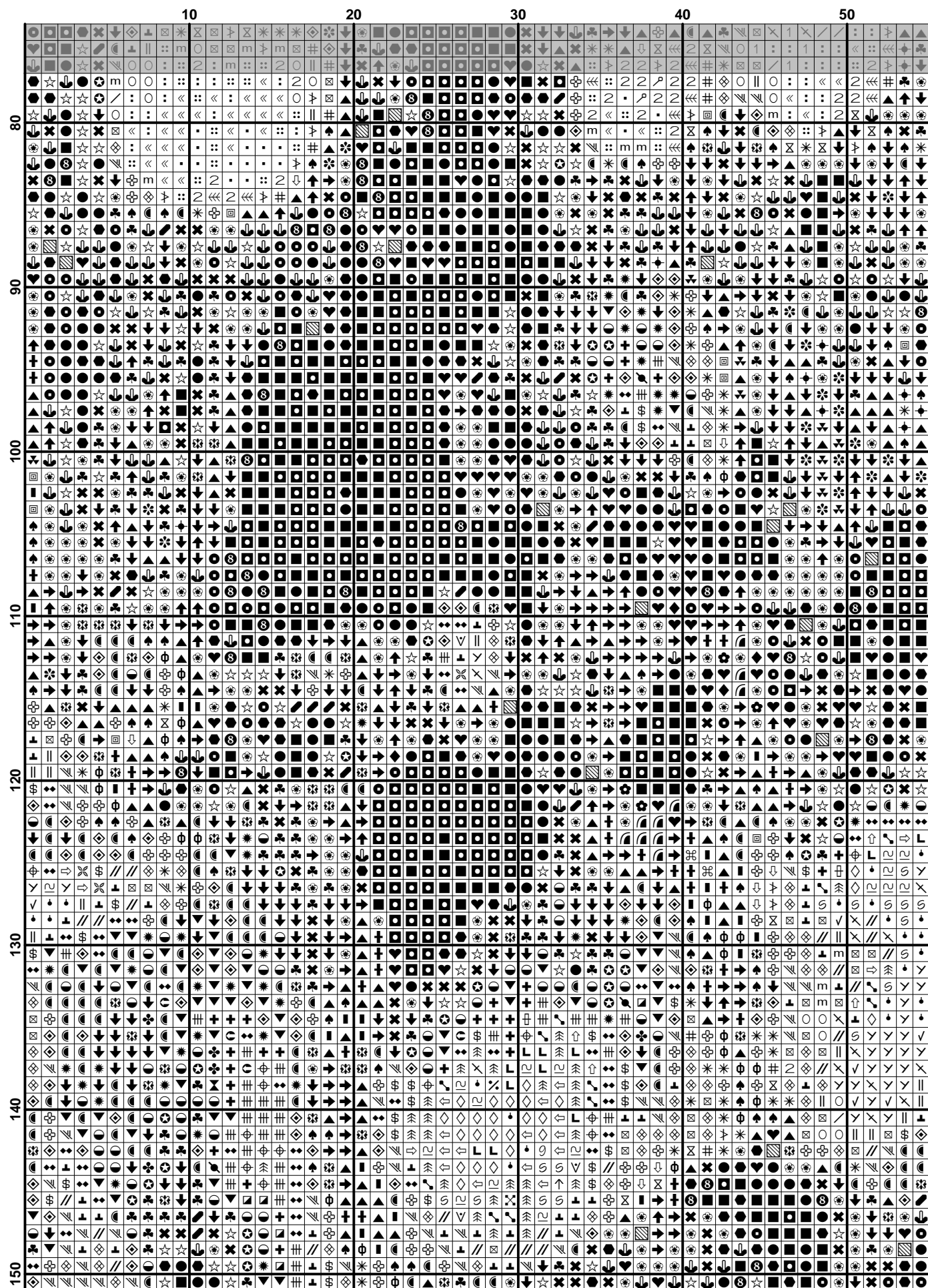


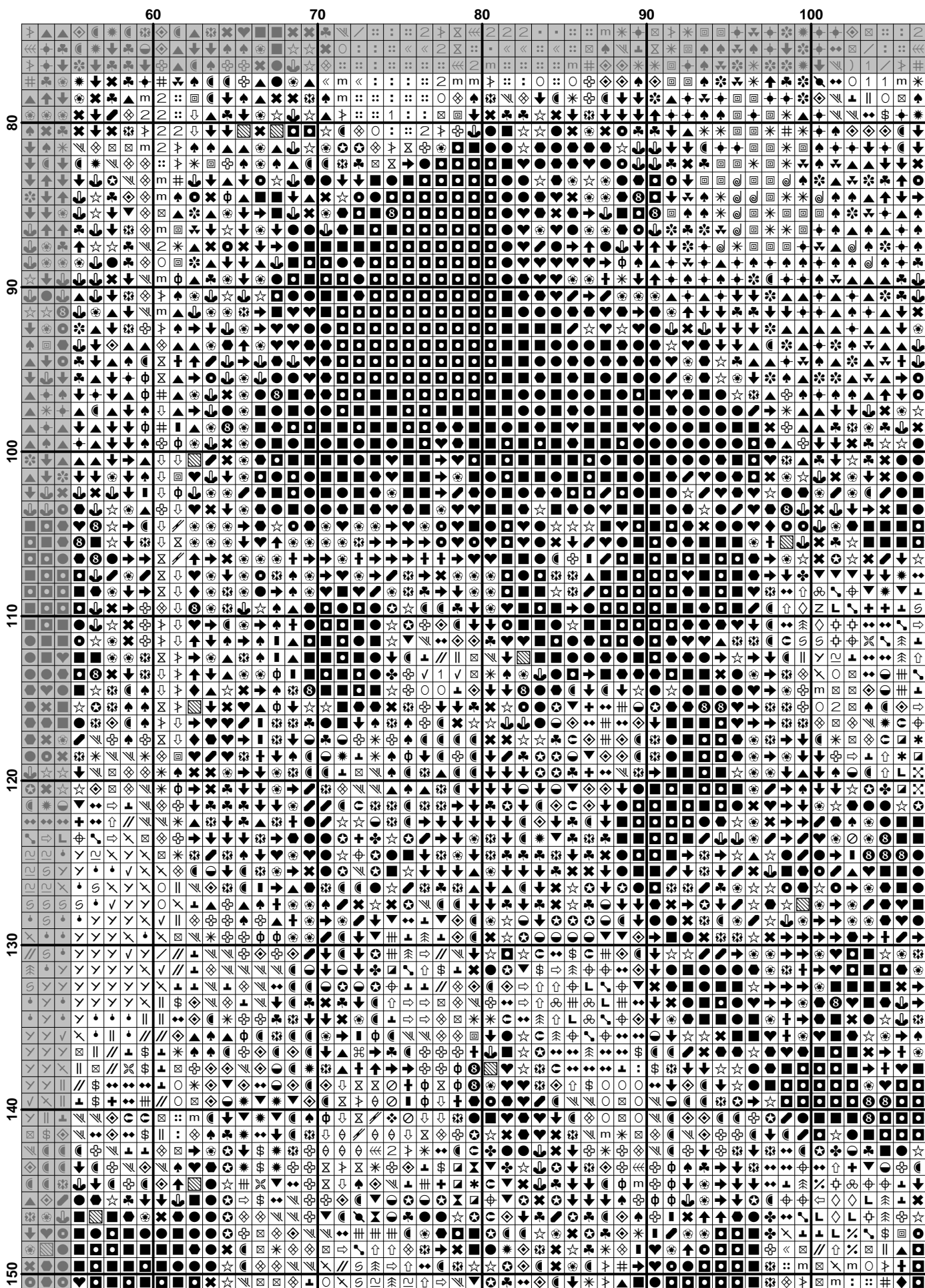
	520	530	540	550	560	570
10	...	...	...	...	...	...
20	...	...	...	...	...	...
30	...	...	...	...	...	...
40	...	...	...	...	...	...
50	...	...	...	...	...	...
60	...	...	...	...	...	...
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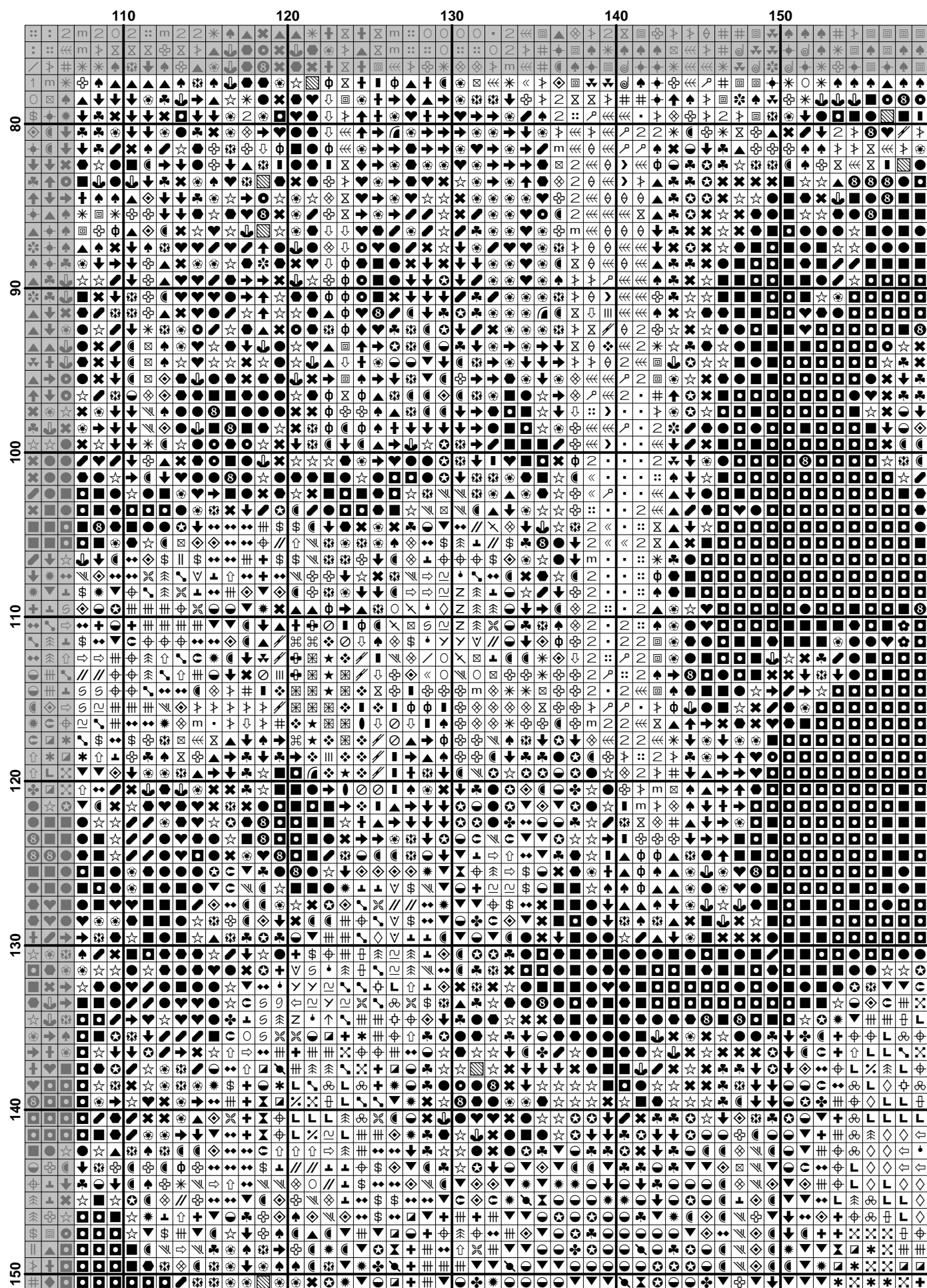
	580	590	600	610	620
10	...	...	...	...	...
20	...	...	...	...	...
30	...	...	...	...	...
40	...	...	...	...	...
50	...	...	...	...	...
60	...	...	...	...	...
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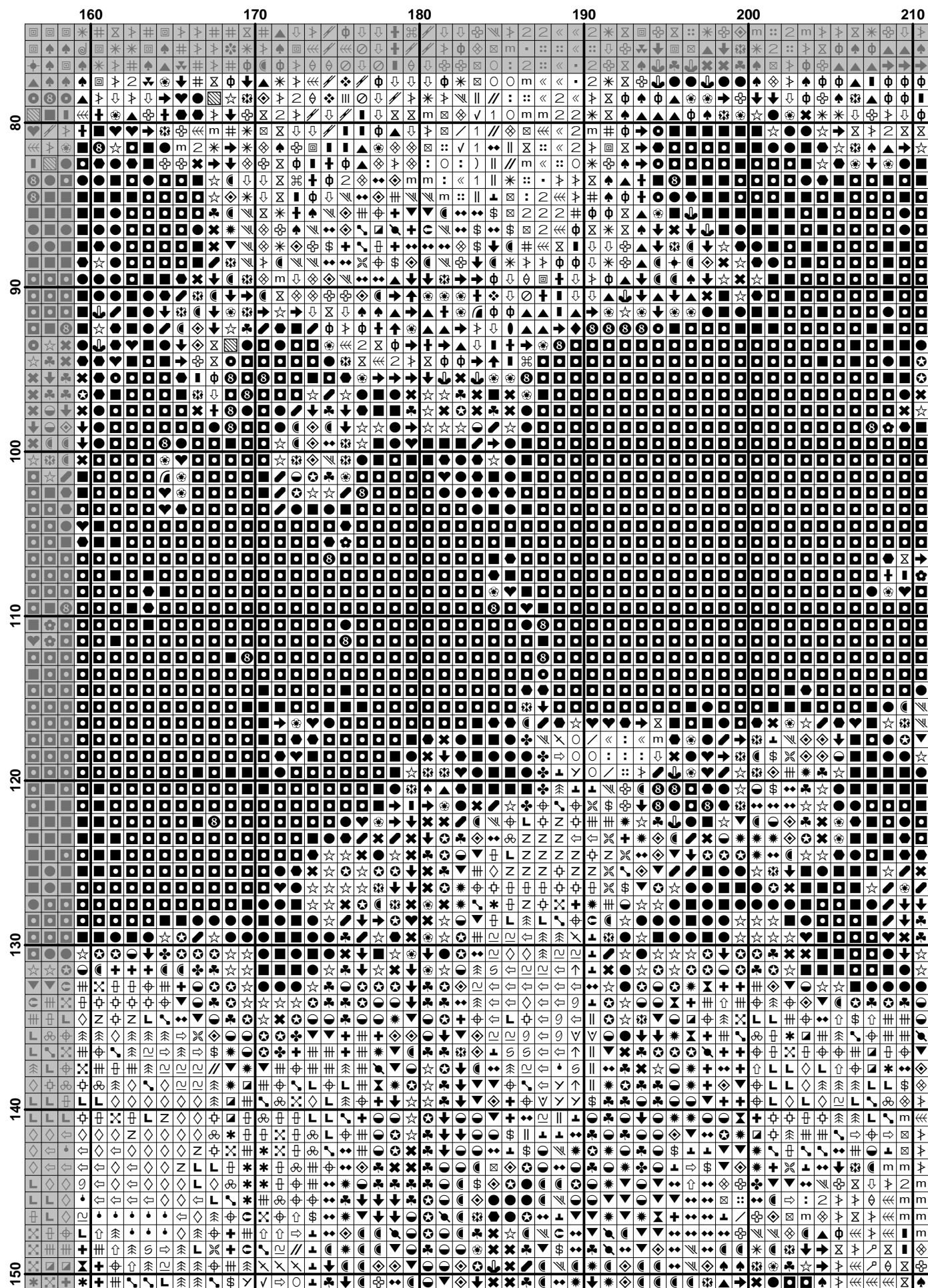
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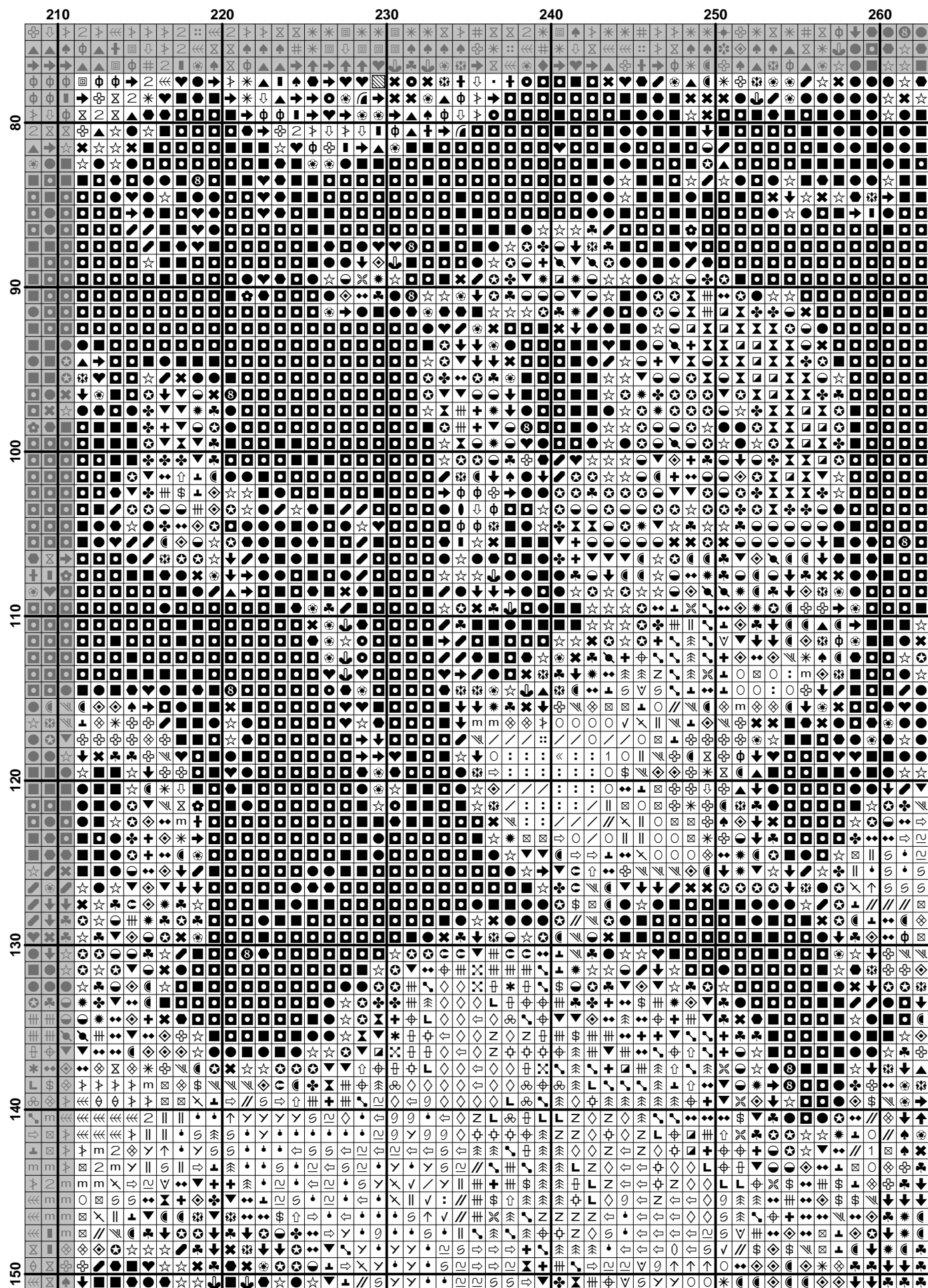


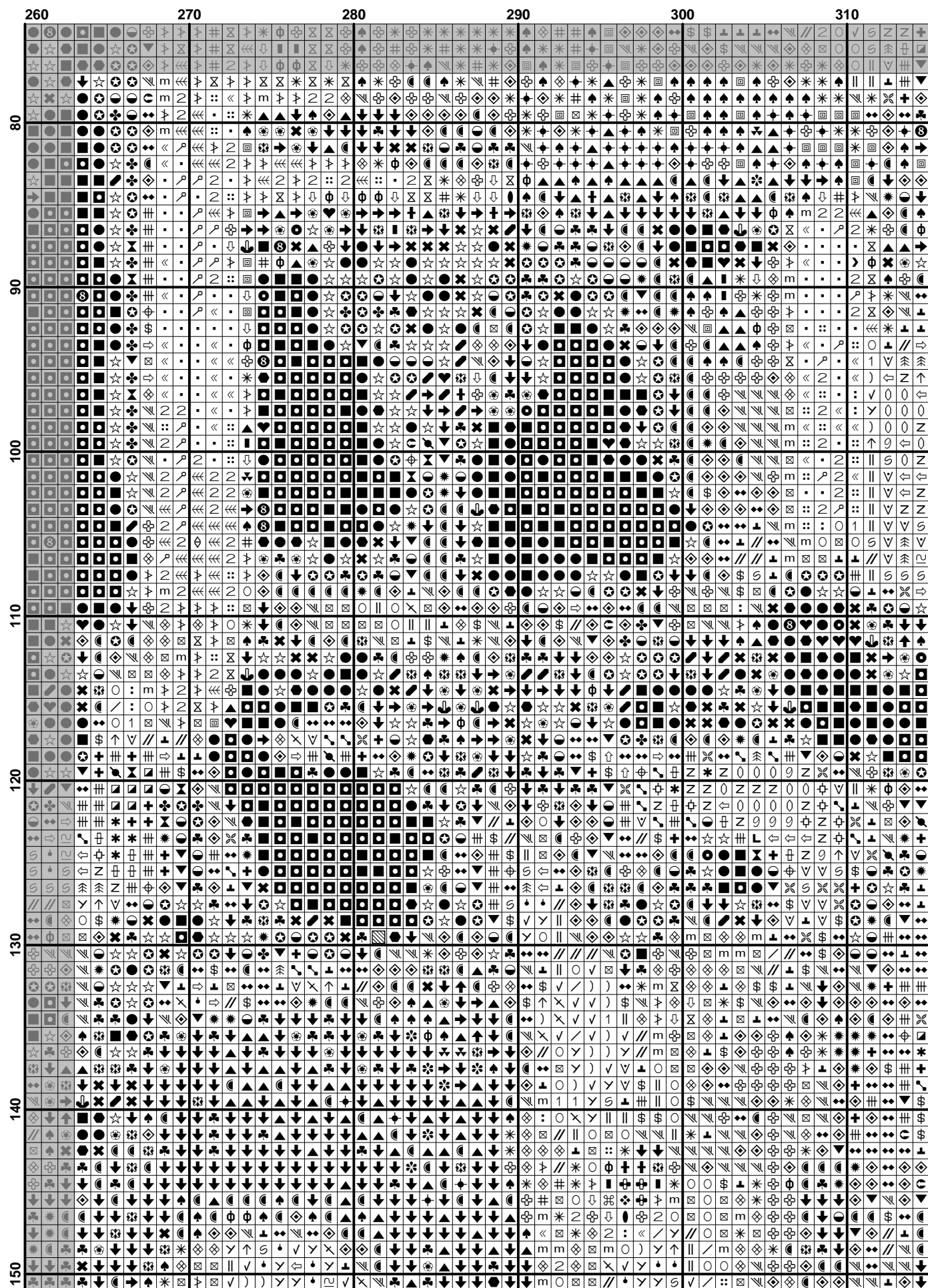


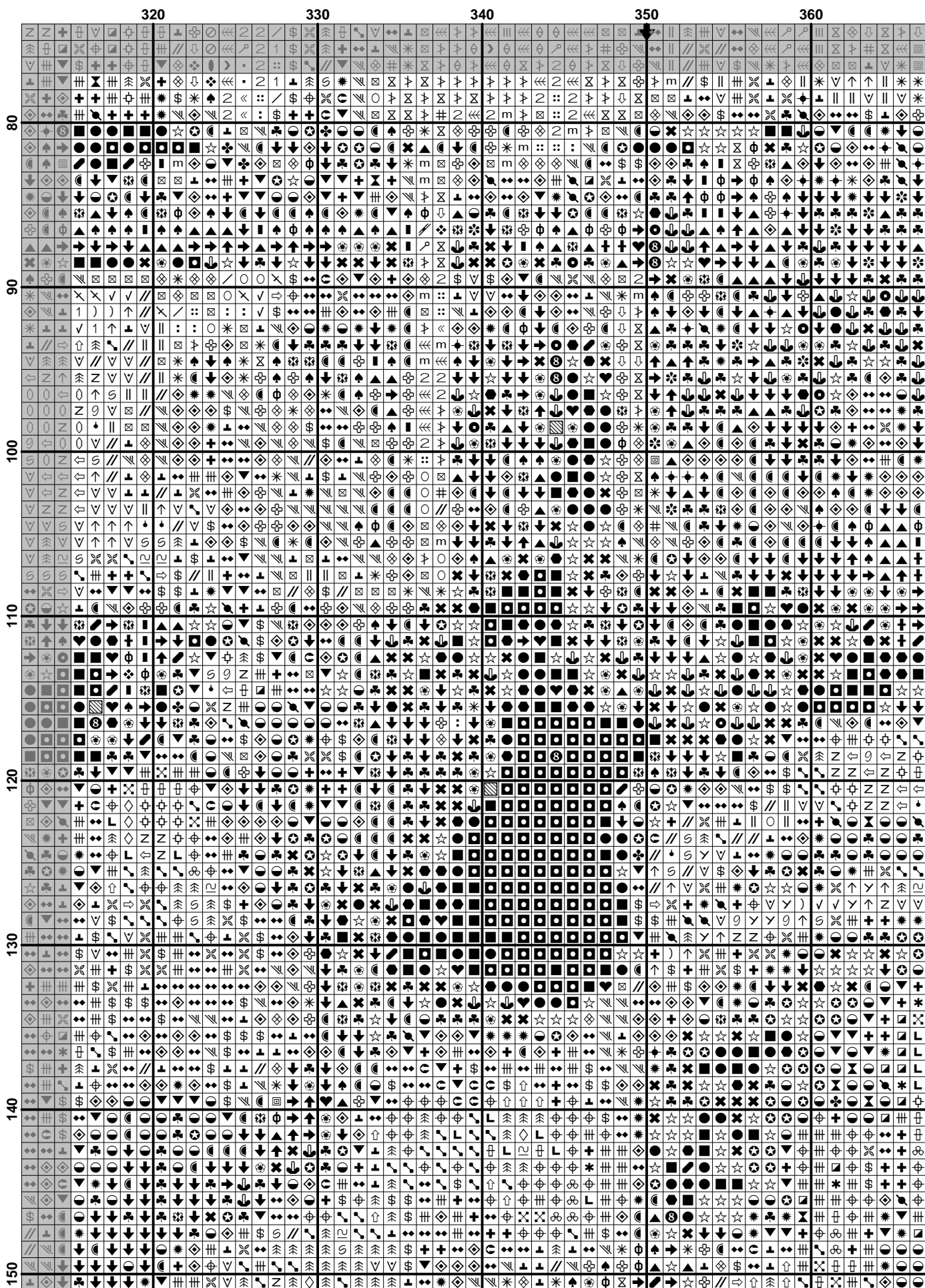


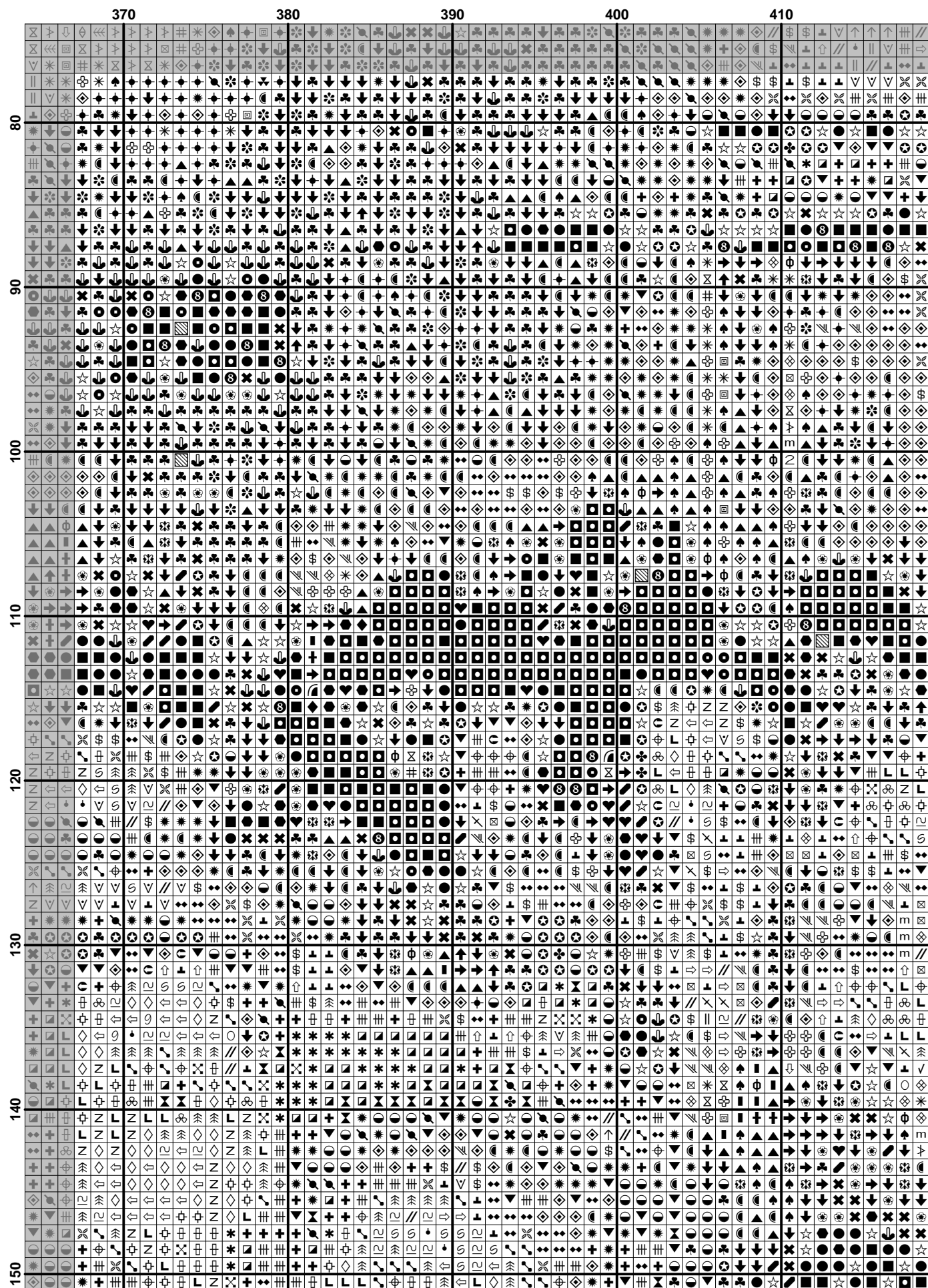






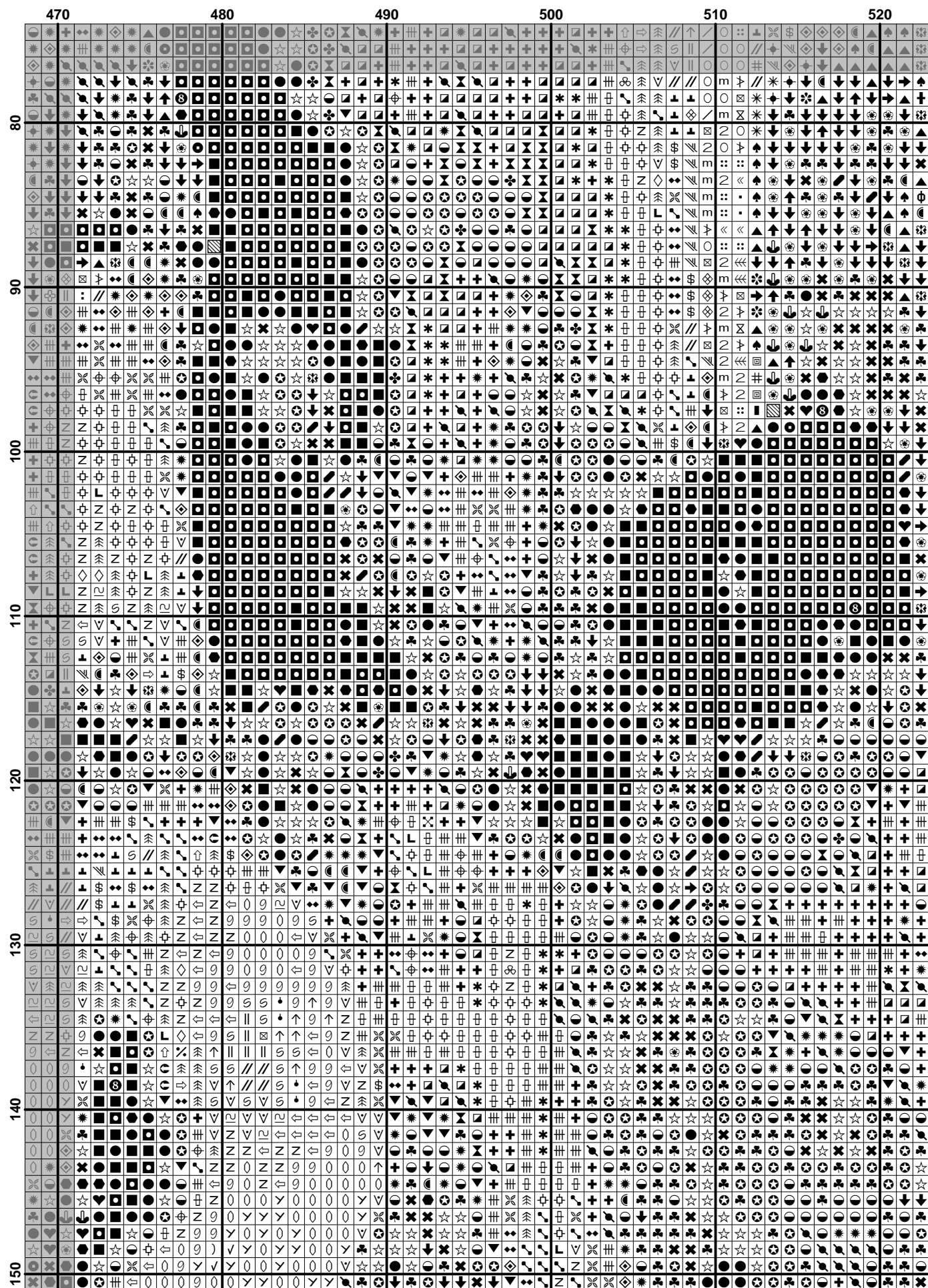




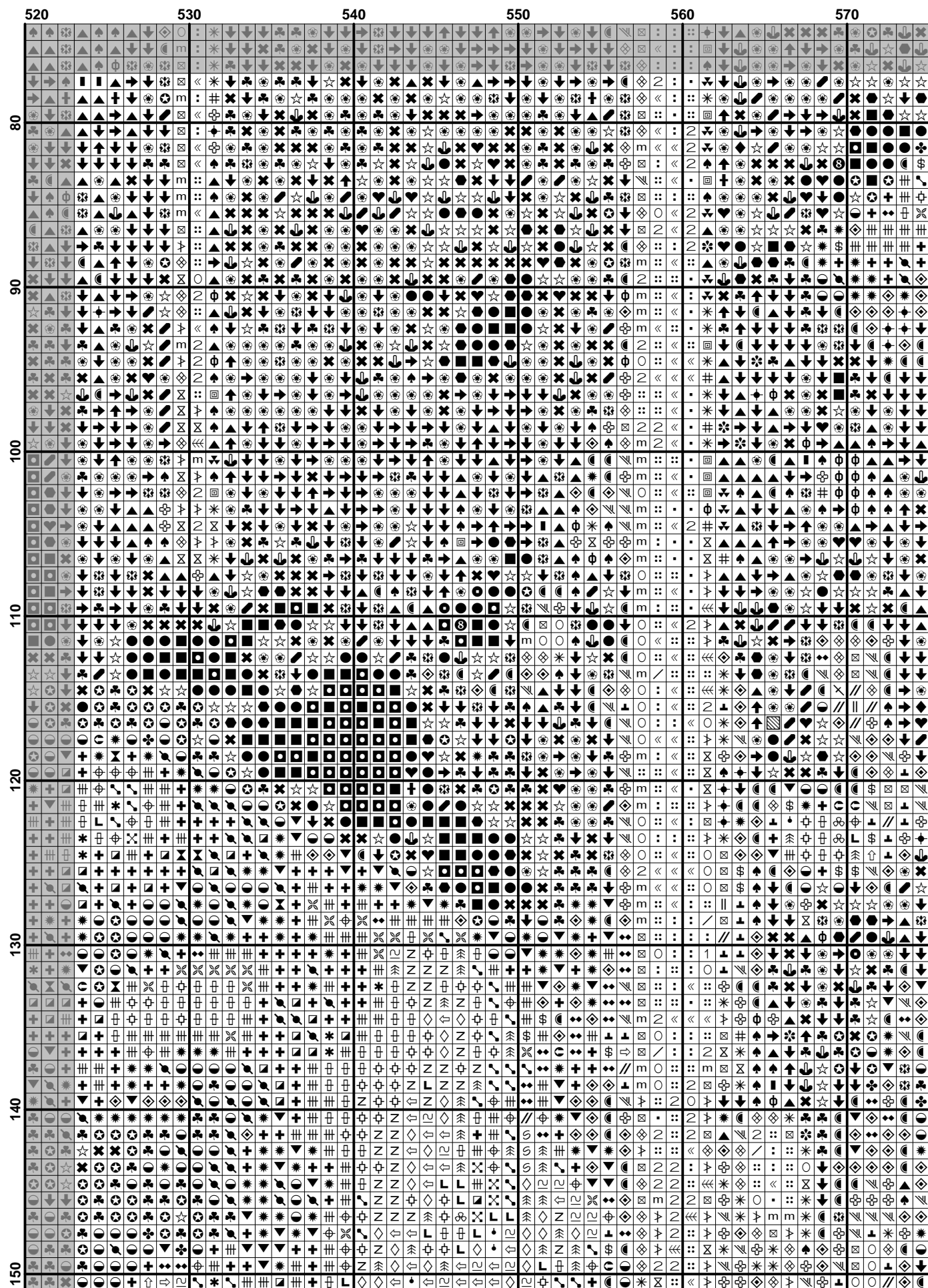


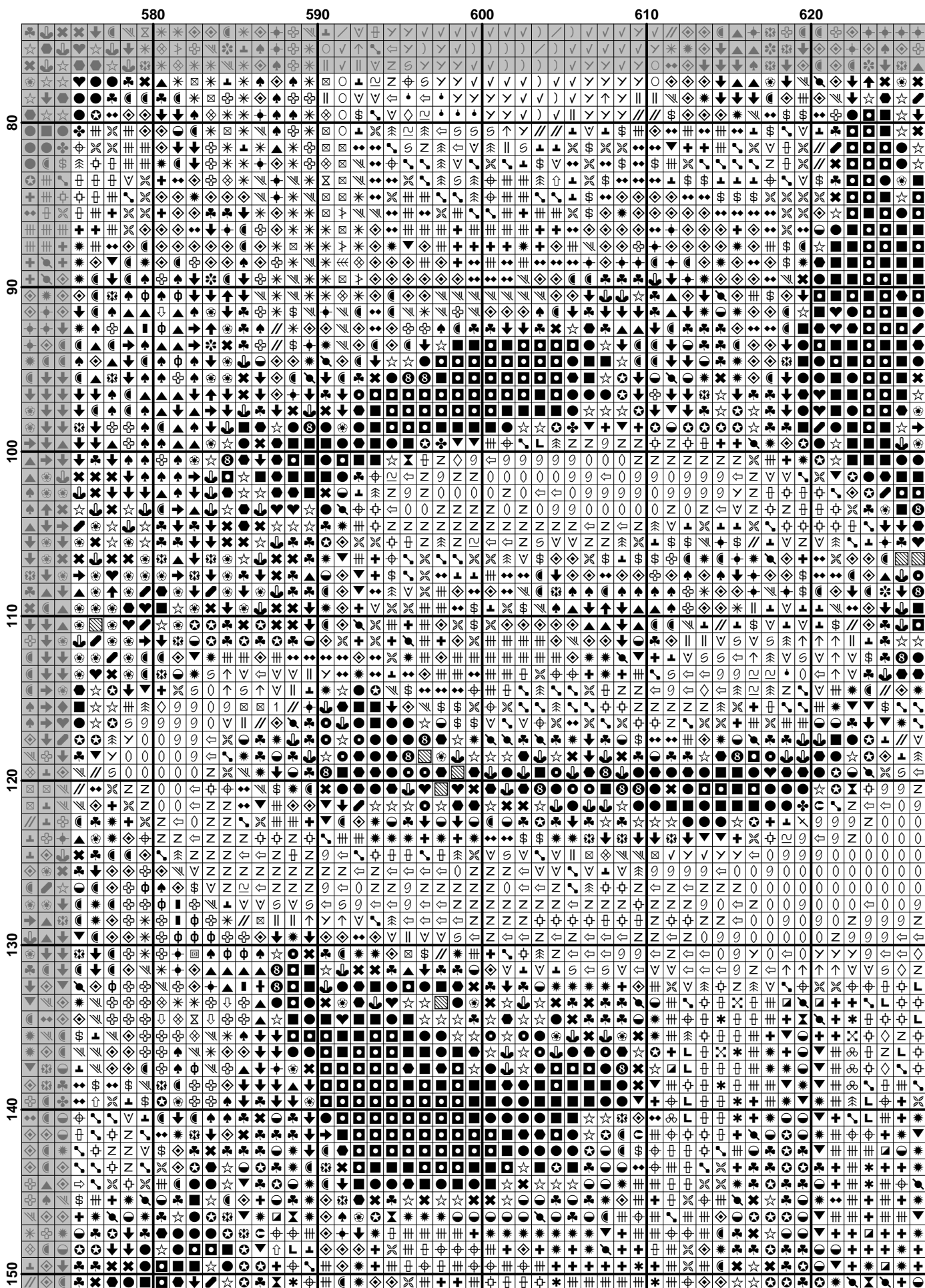
	420	430	440	450	460	470
80	↑	↑	↑	↑	↑	↑
90	↑	↑	↑	↑	↑	↑
100	↑	↑	↑	↑	↑	↑
110	↑	↑	↑	↑	↑	↑
120	↑	↑	↑	↑	↑	↑
130	↑	↑	↑	↑	↑	↑
140	↑	↑	↑	↑	↑	↑
150	↑	↑	↑	↑	↑	↑

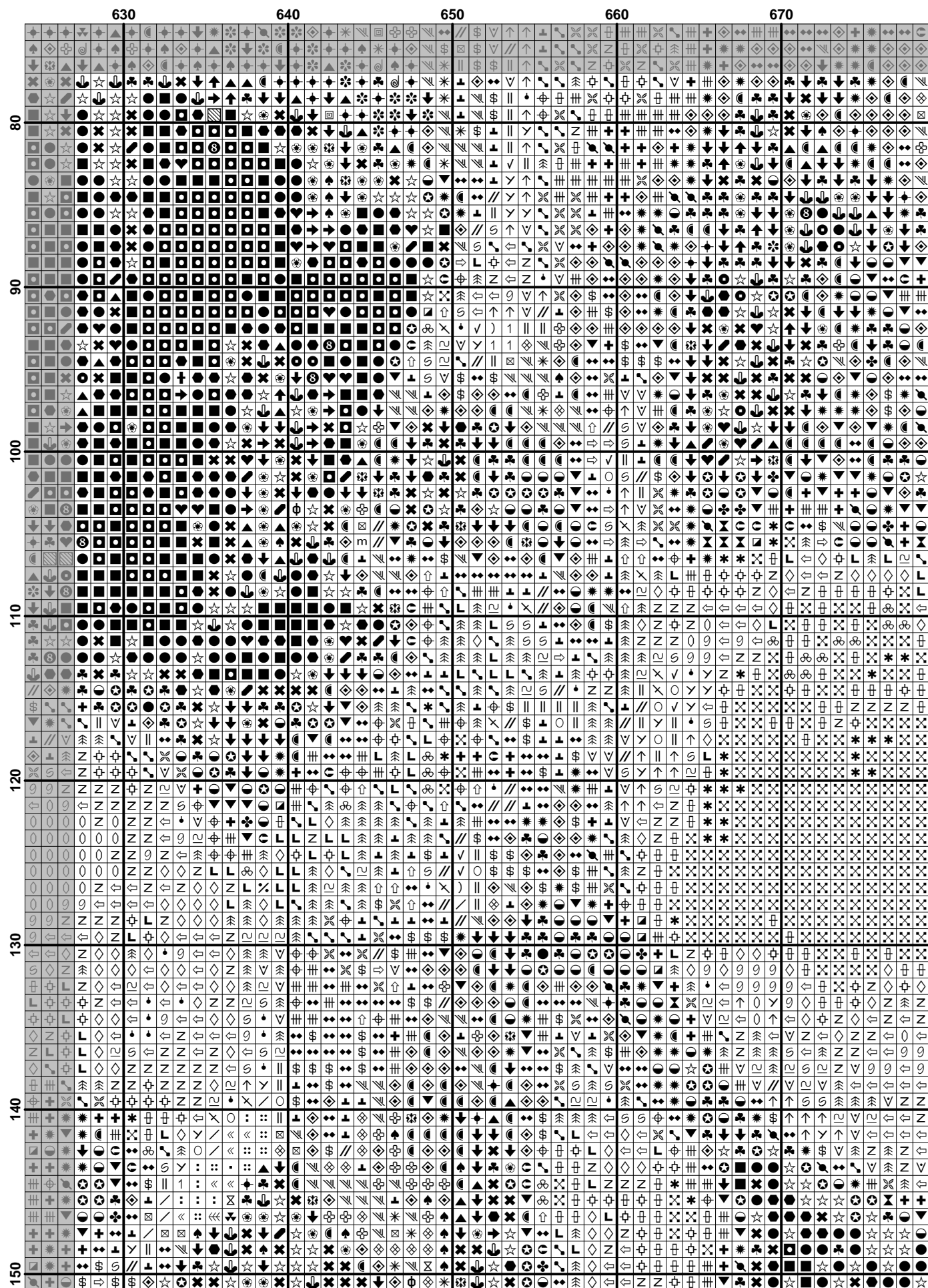


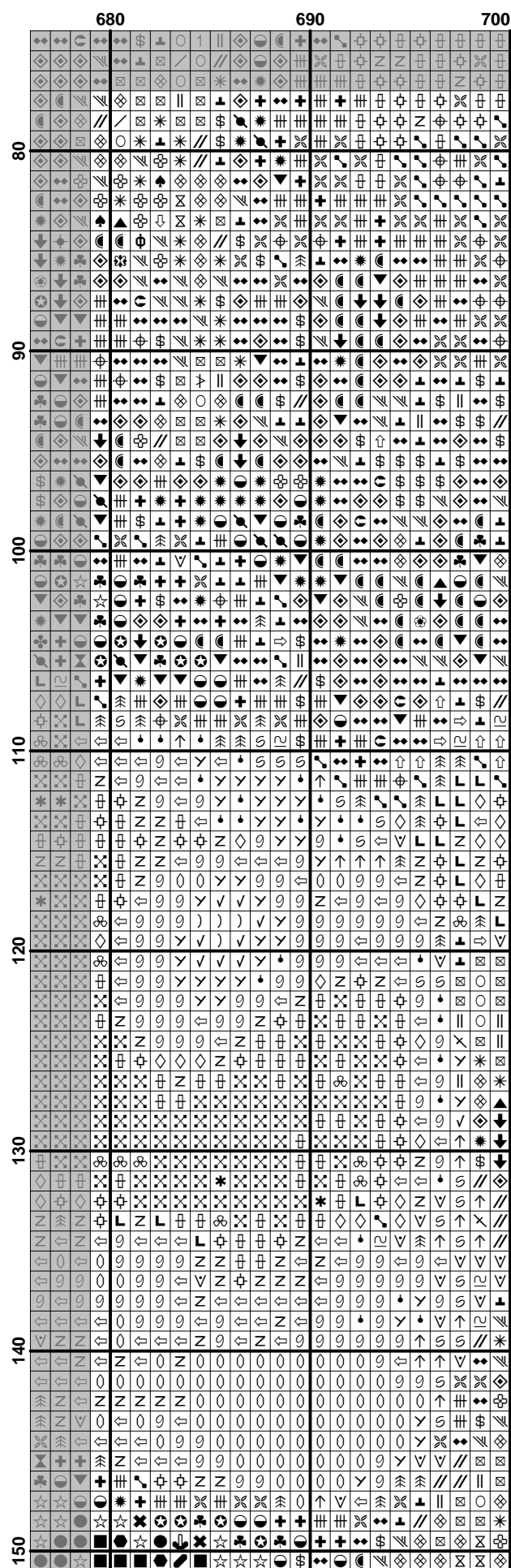


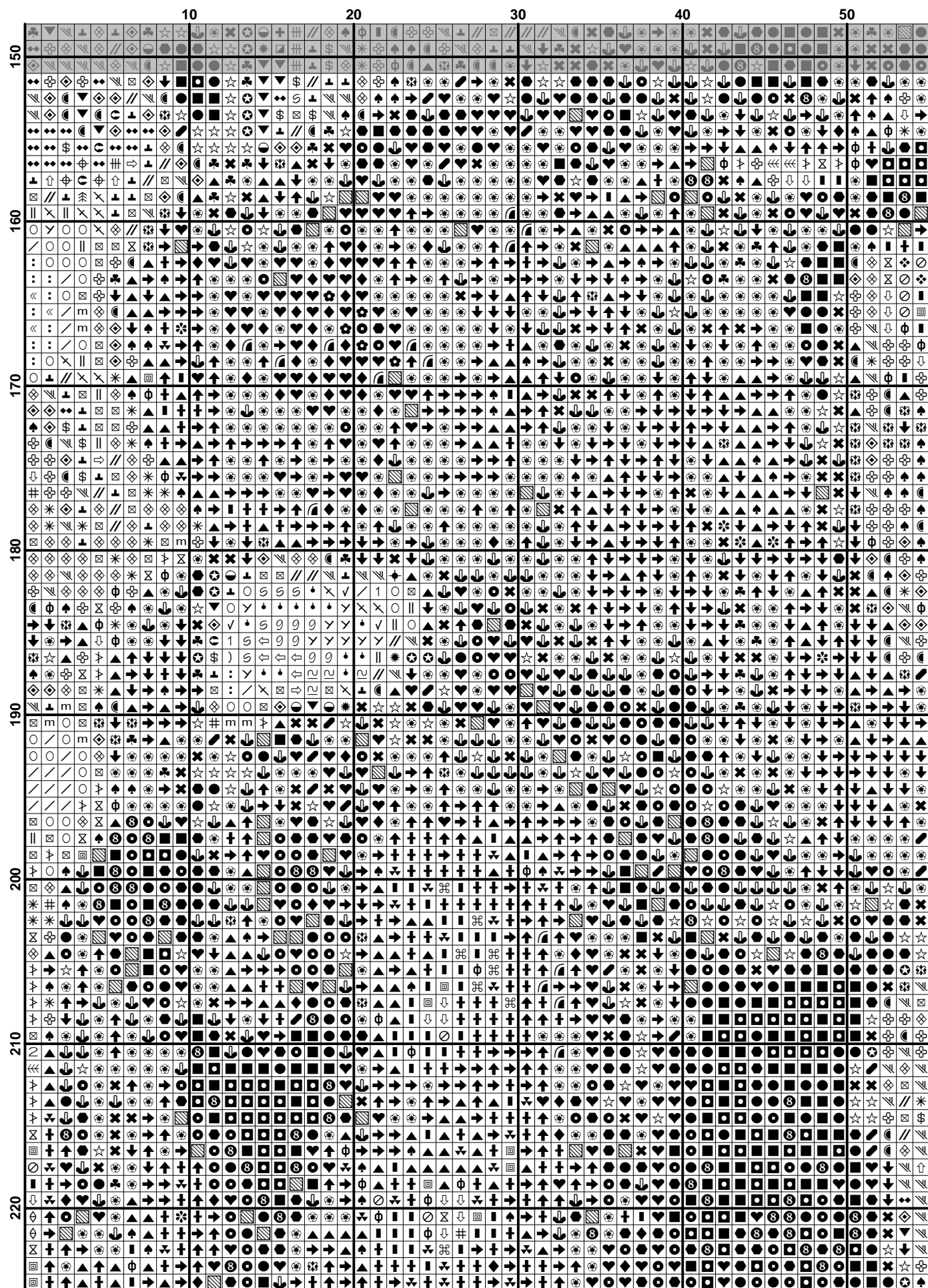


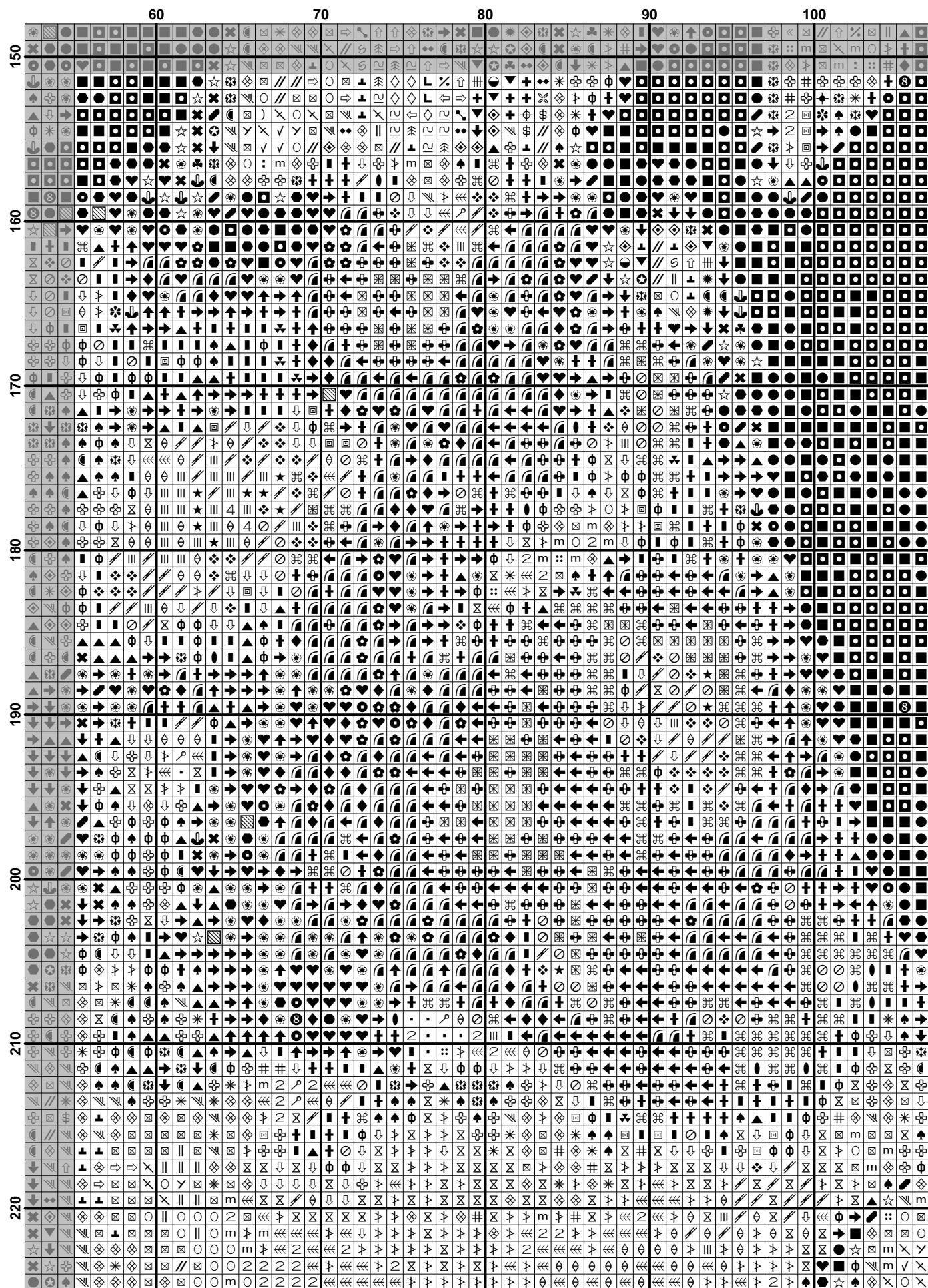


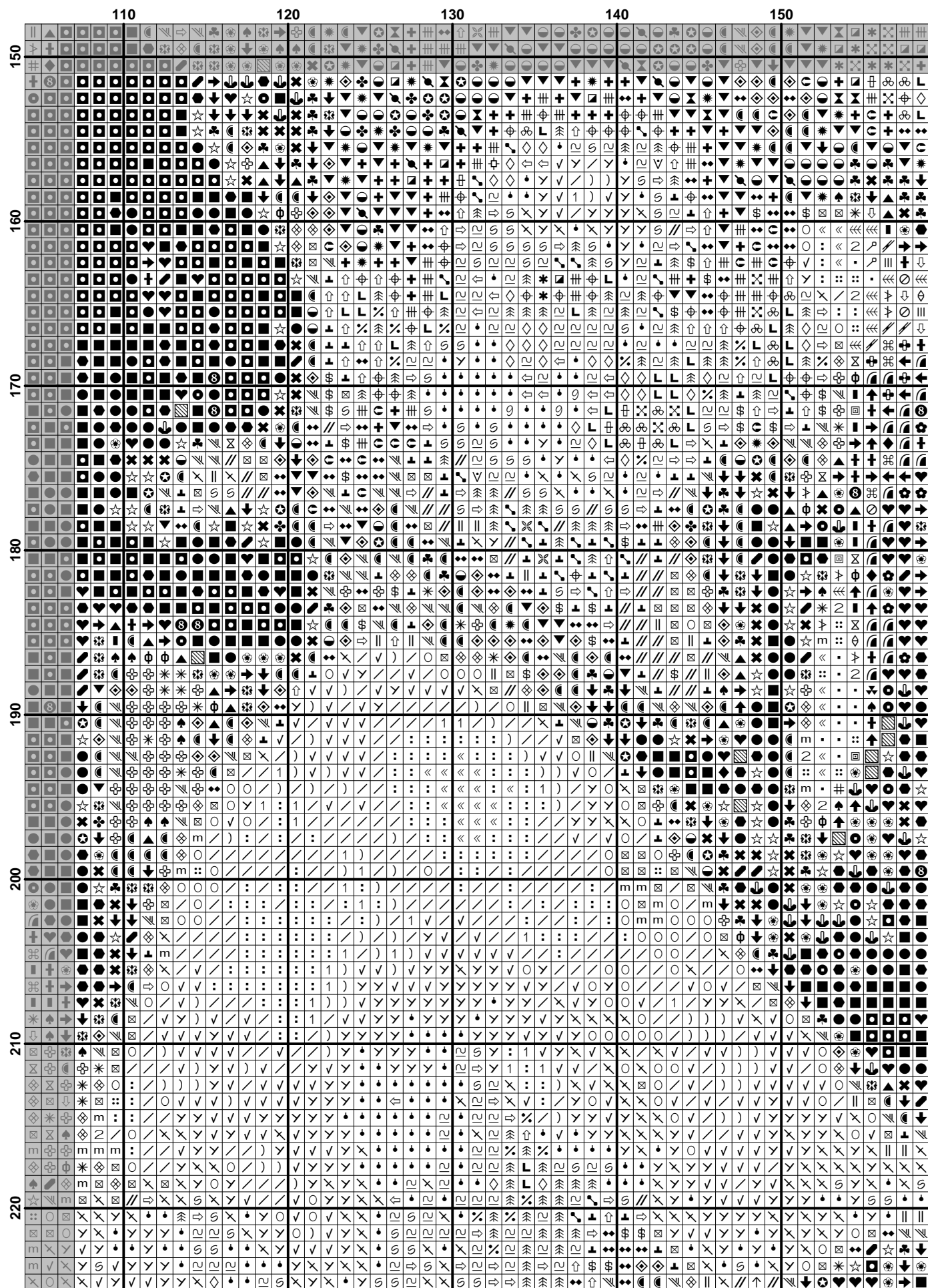




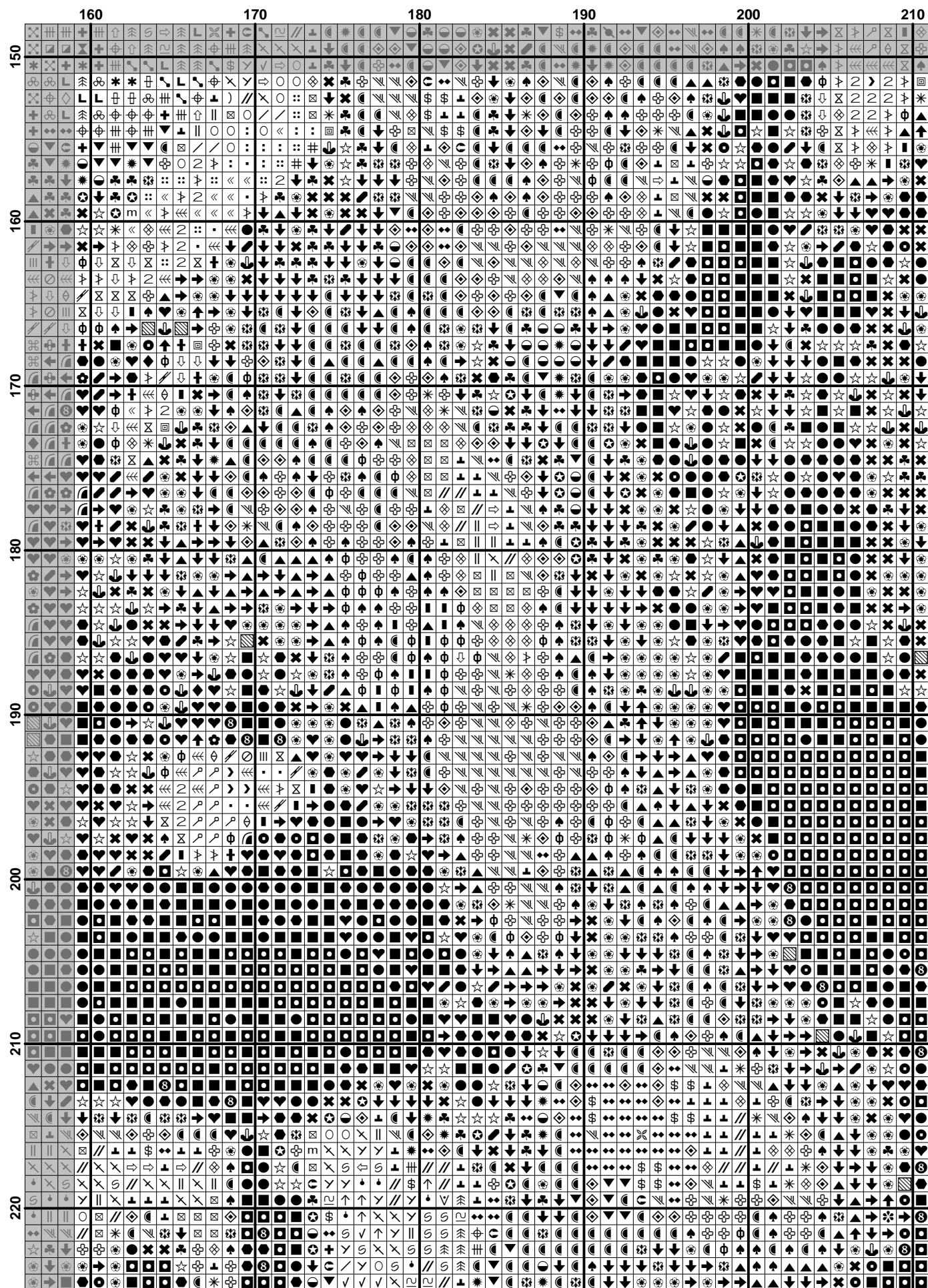






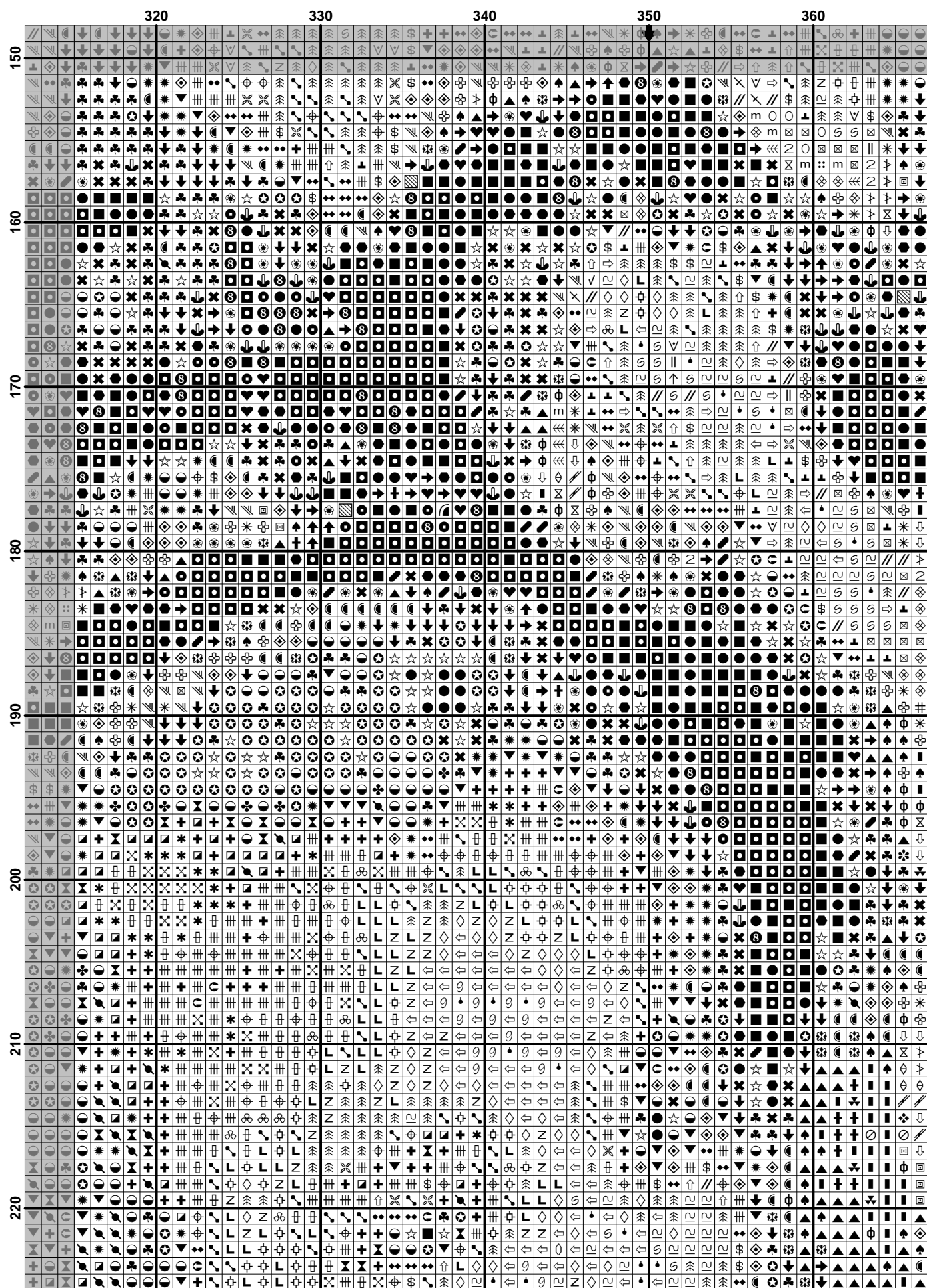


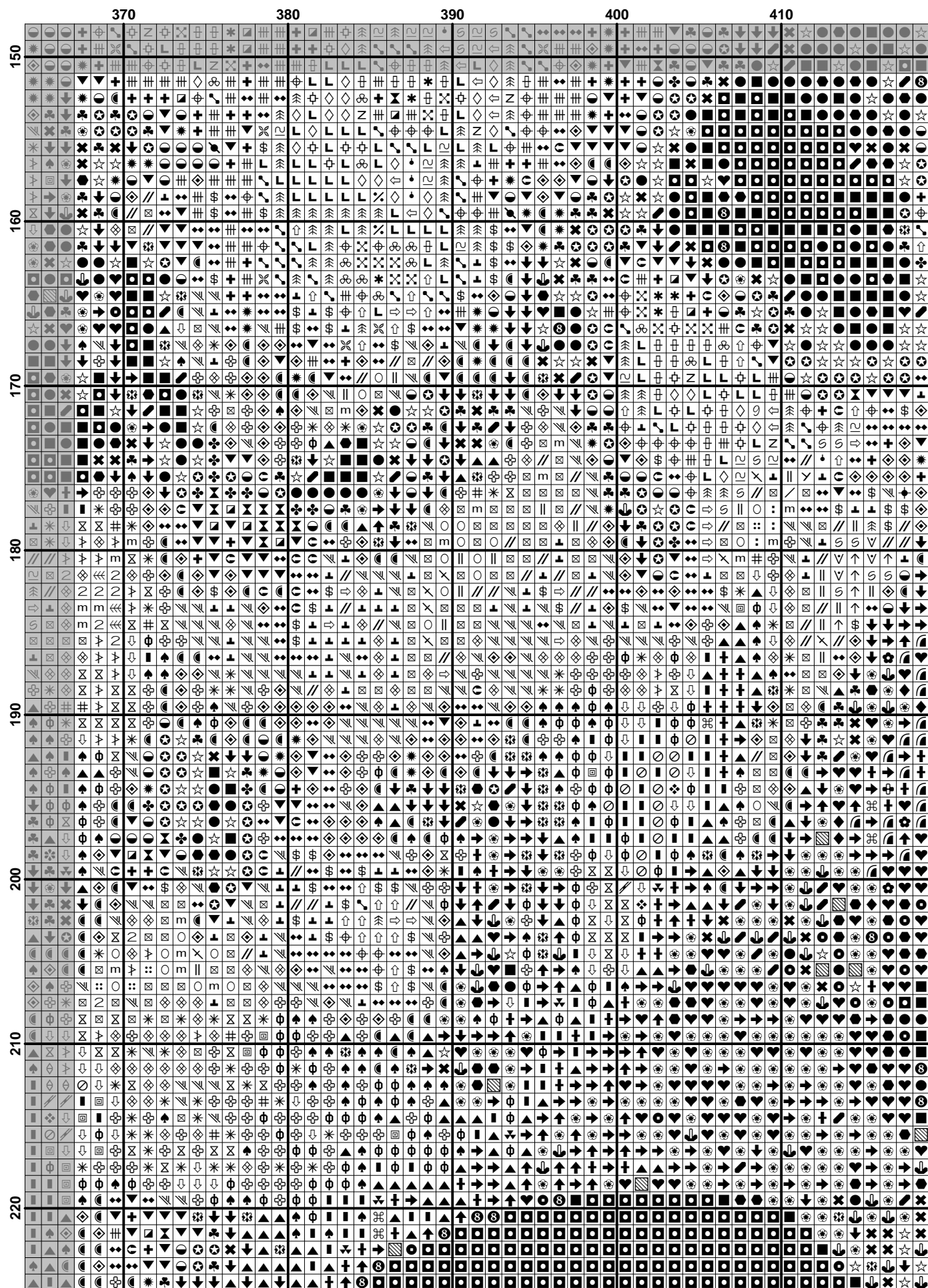


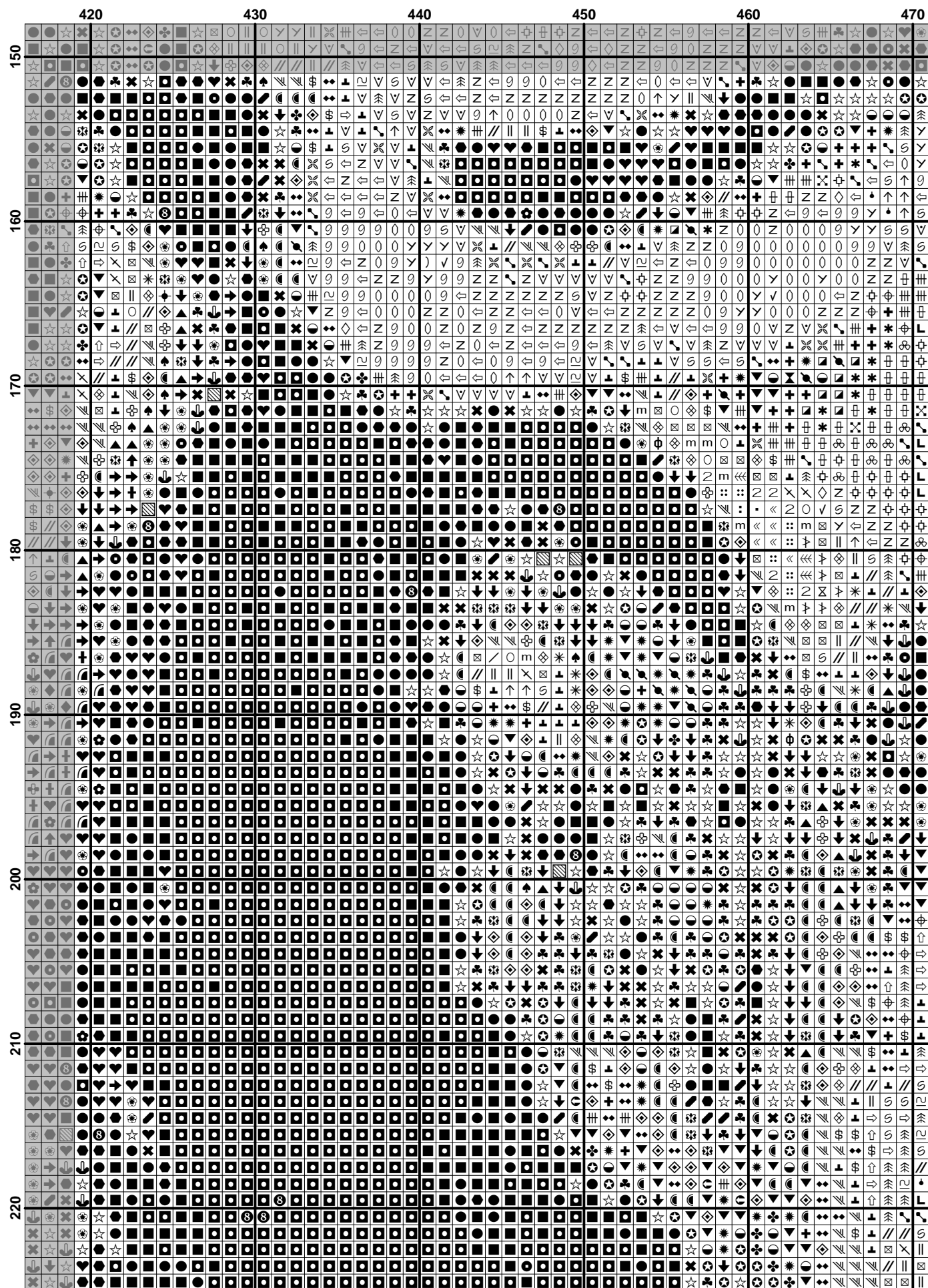


	210	220	230	240	250	260
150	...	...	...	...	...	...
160	...	...	...	...	...	...
170	...	...	...	...	...	...
180	...	...	...	...	...	...
190	...	...	...	...	...	...
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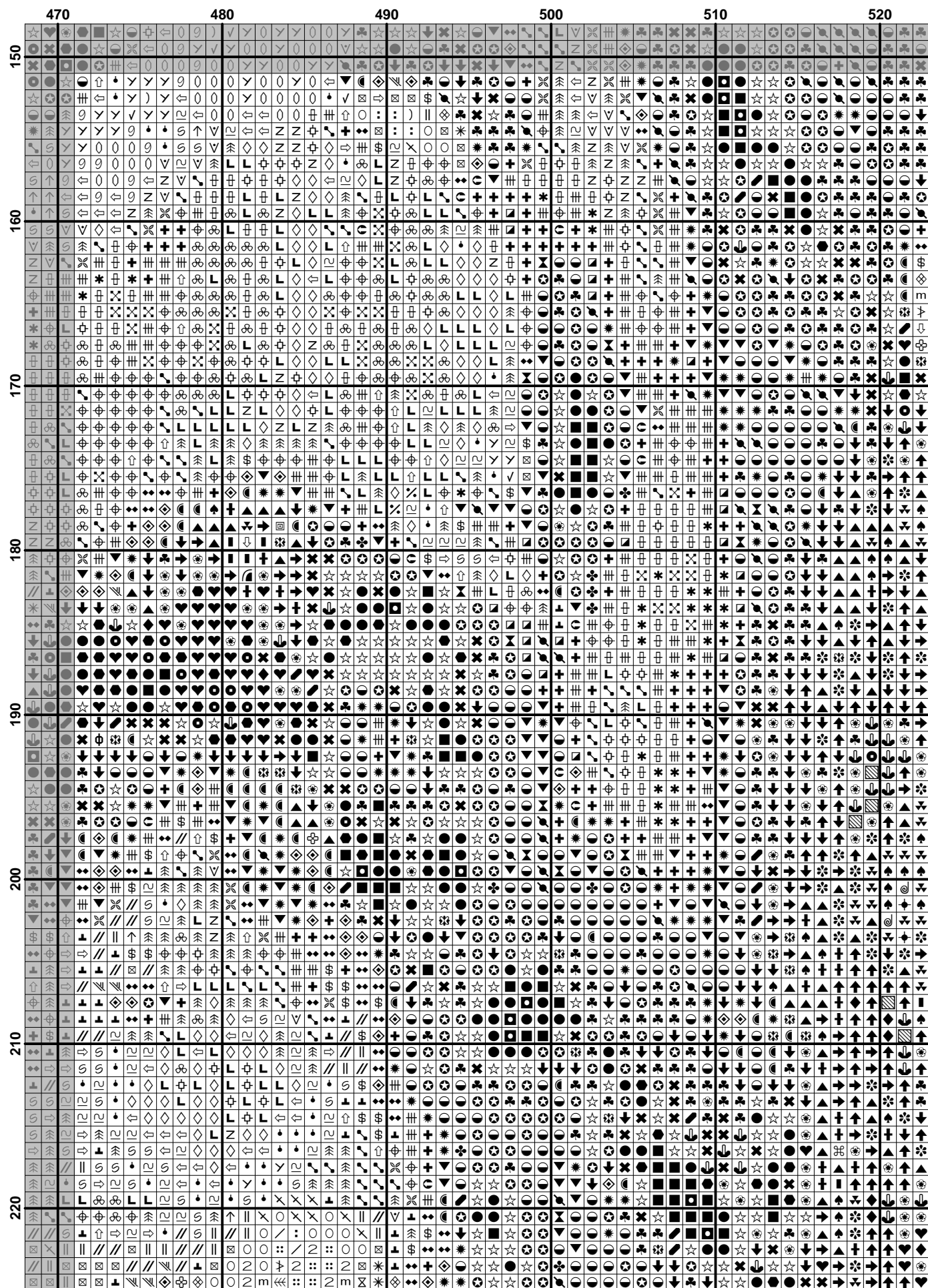




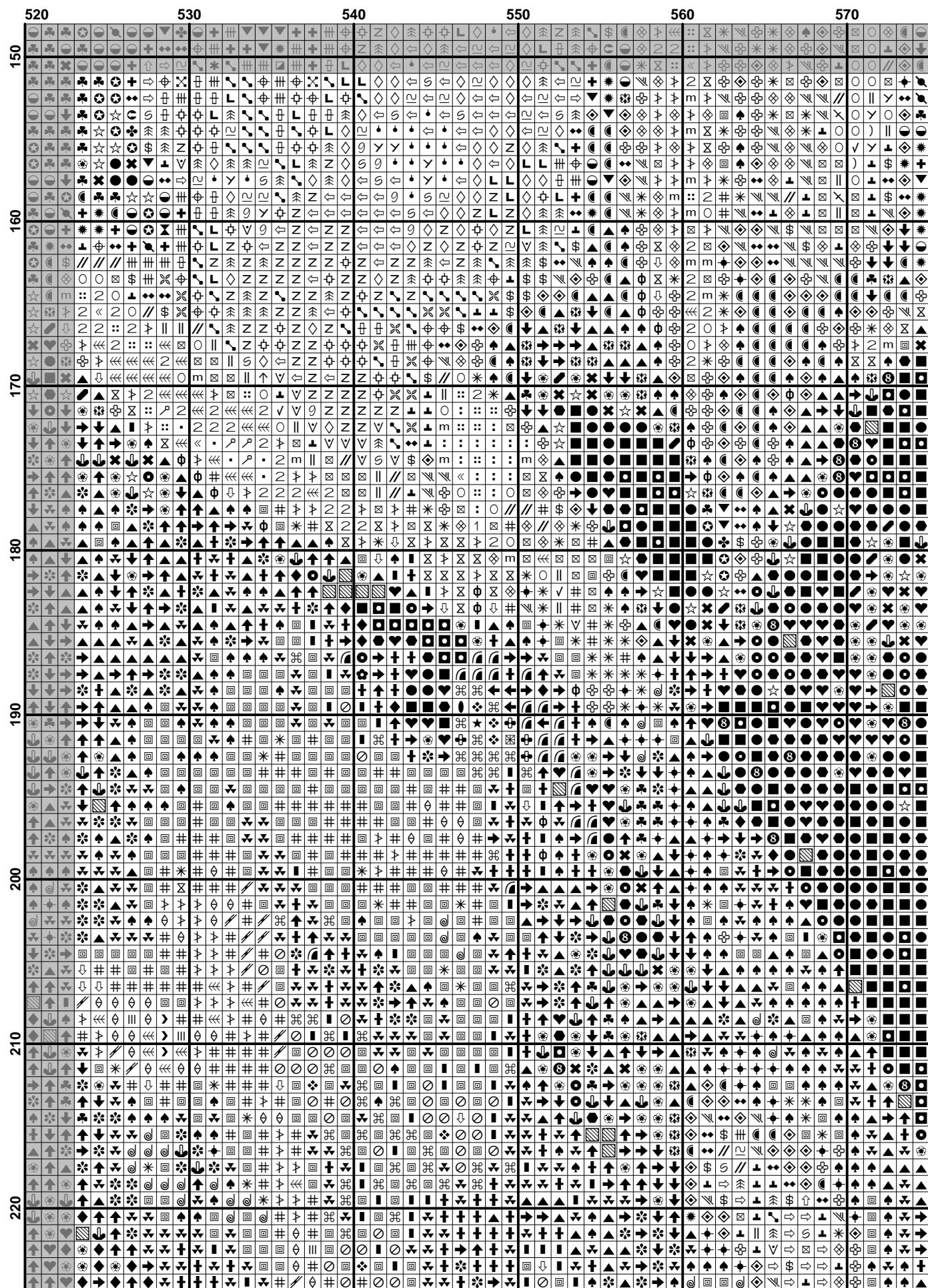


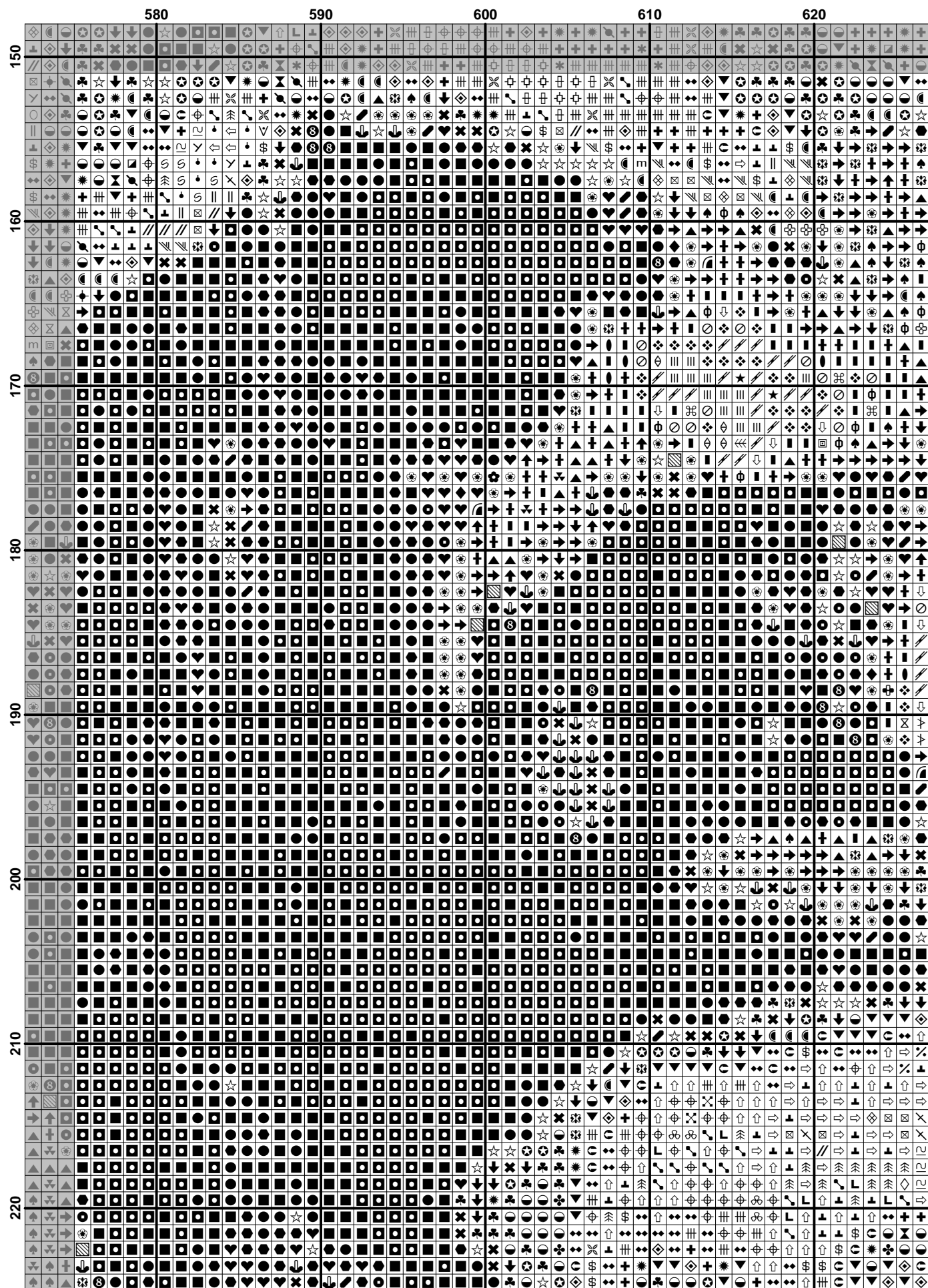


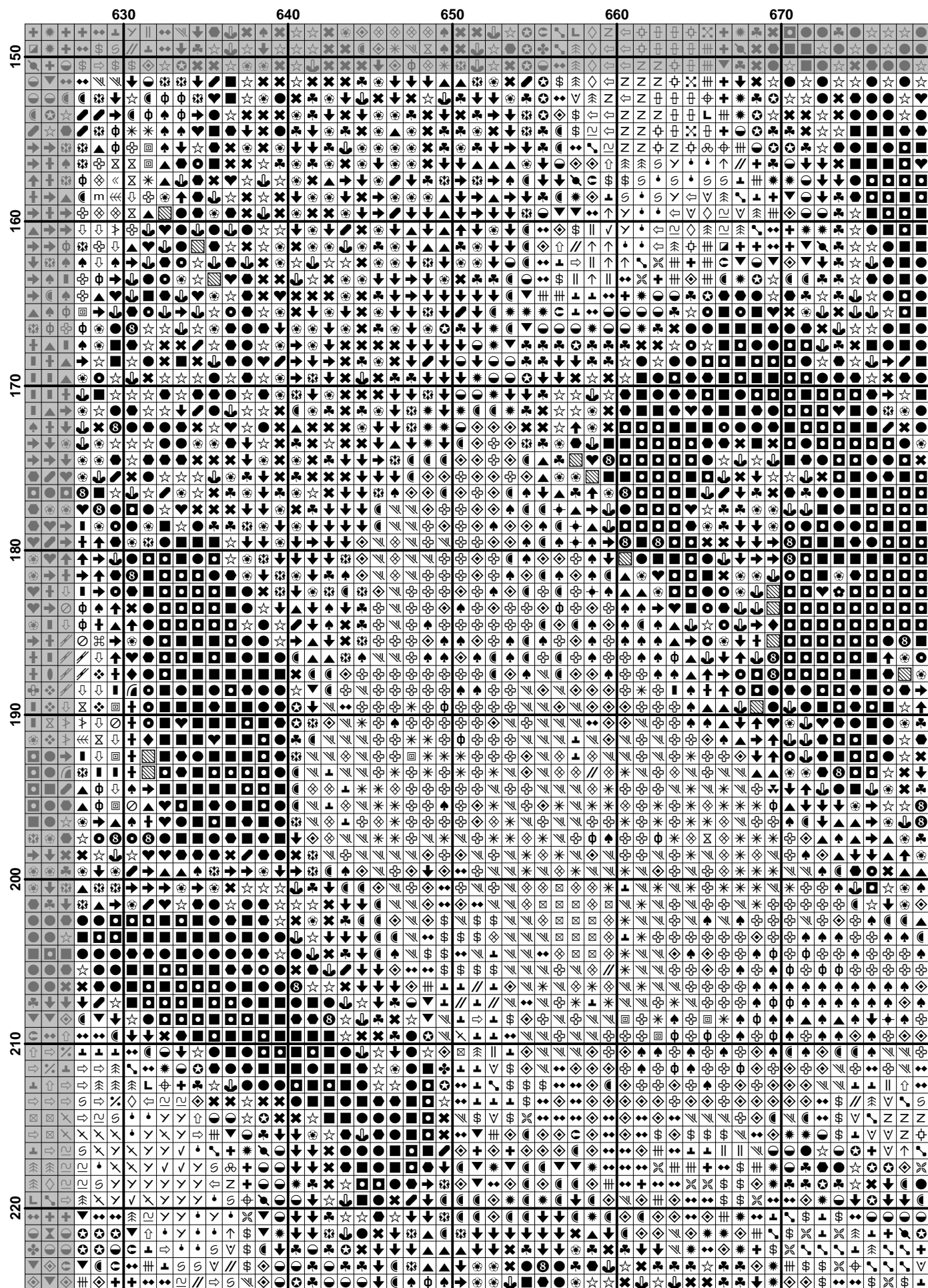


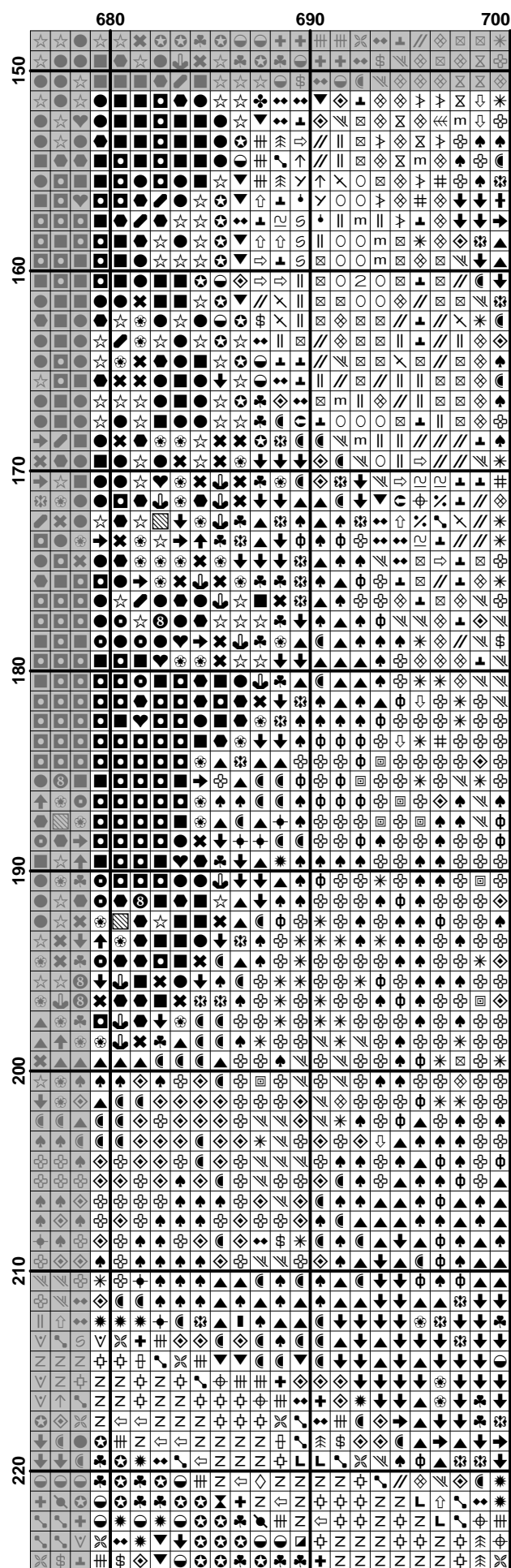


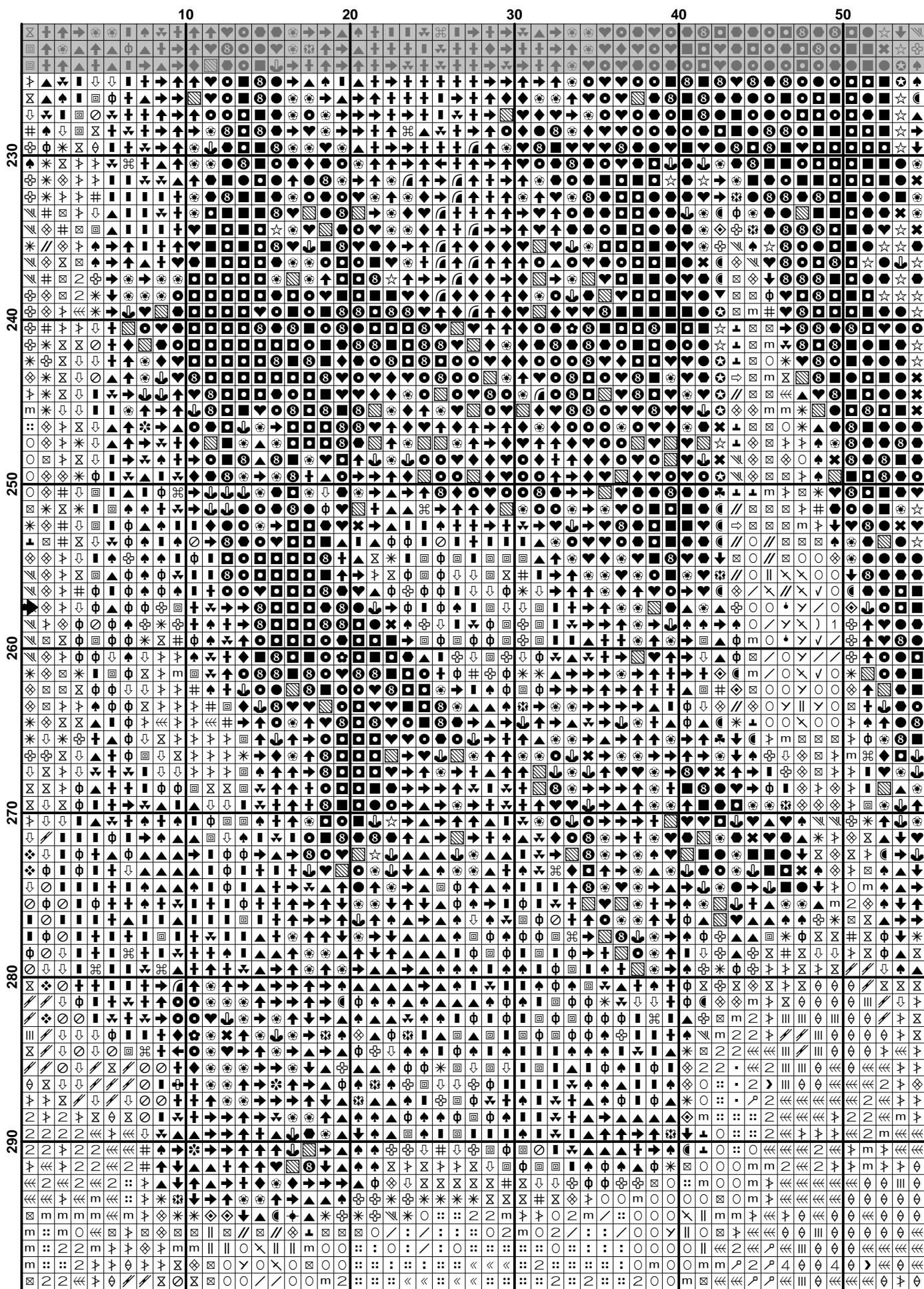








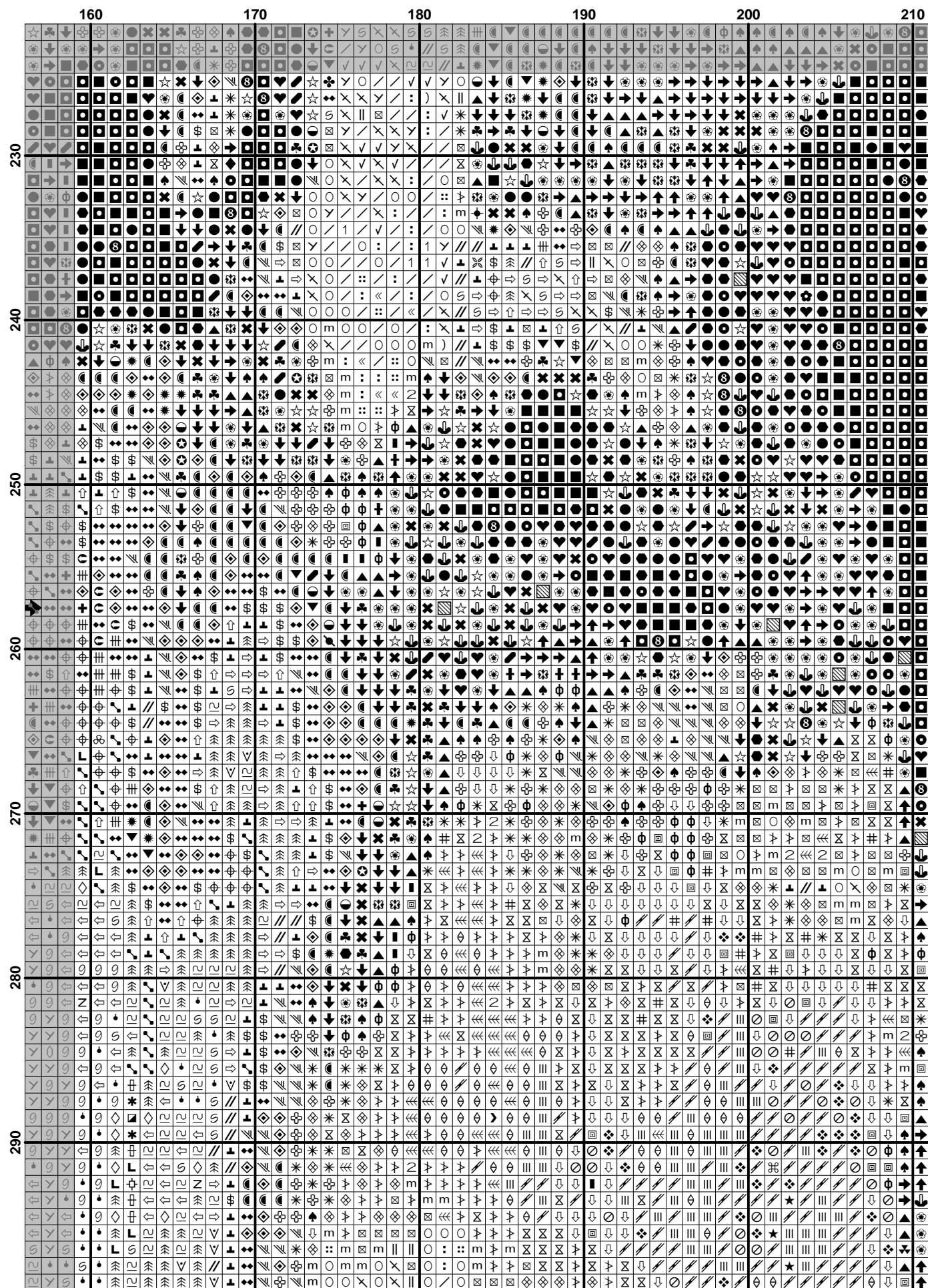


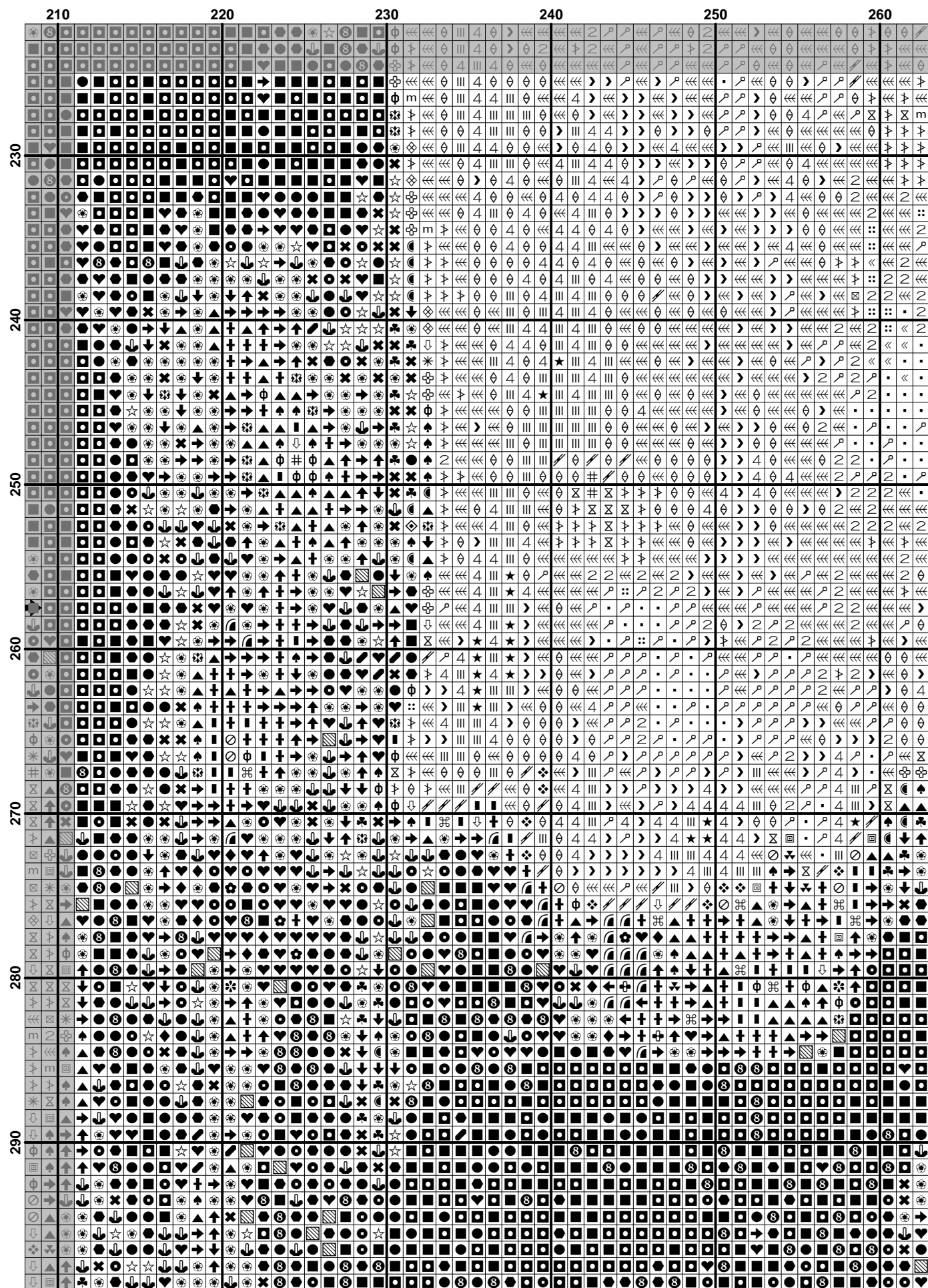


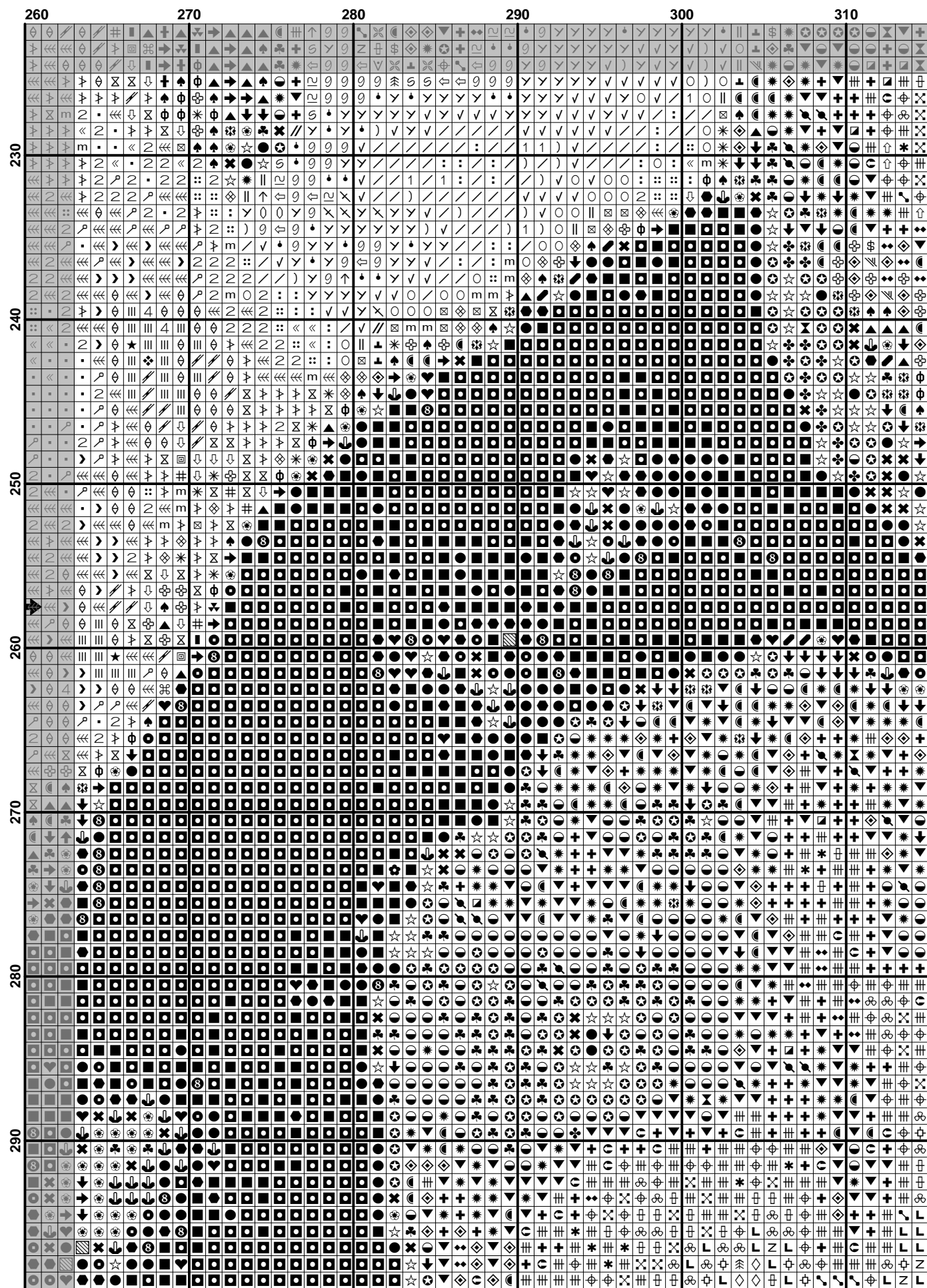
$$(58) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

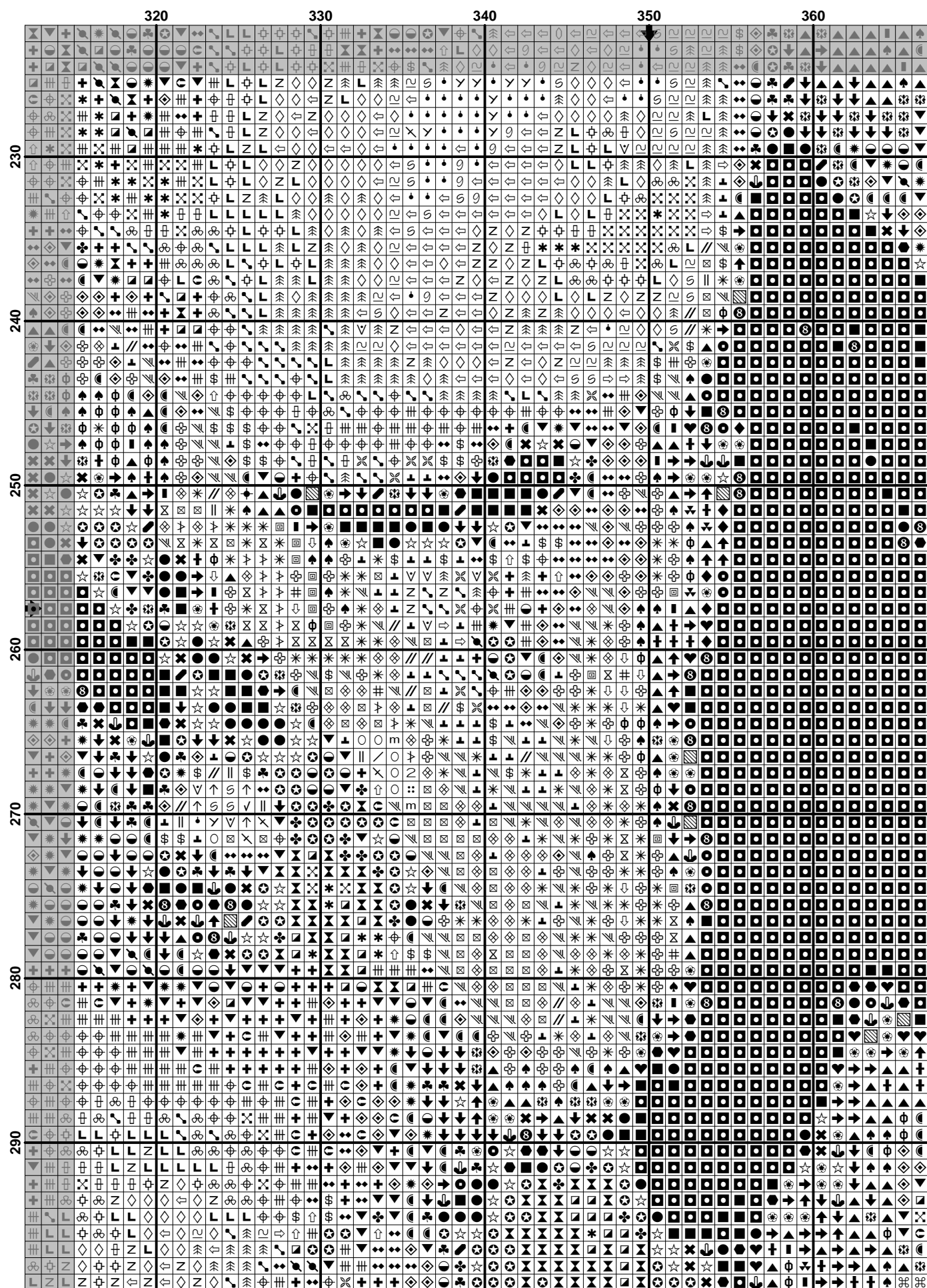
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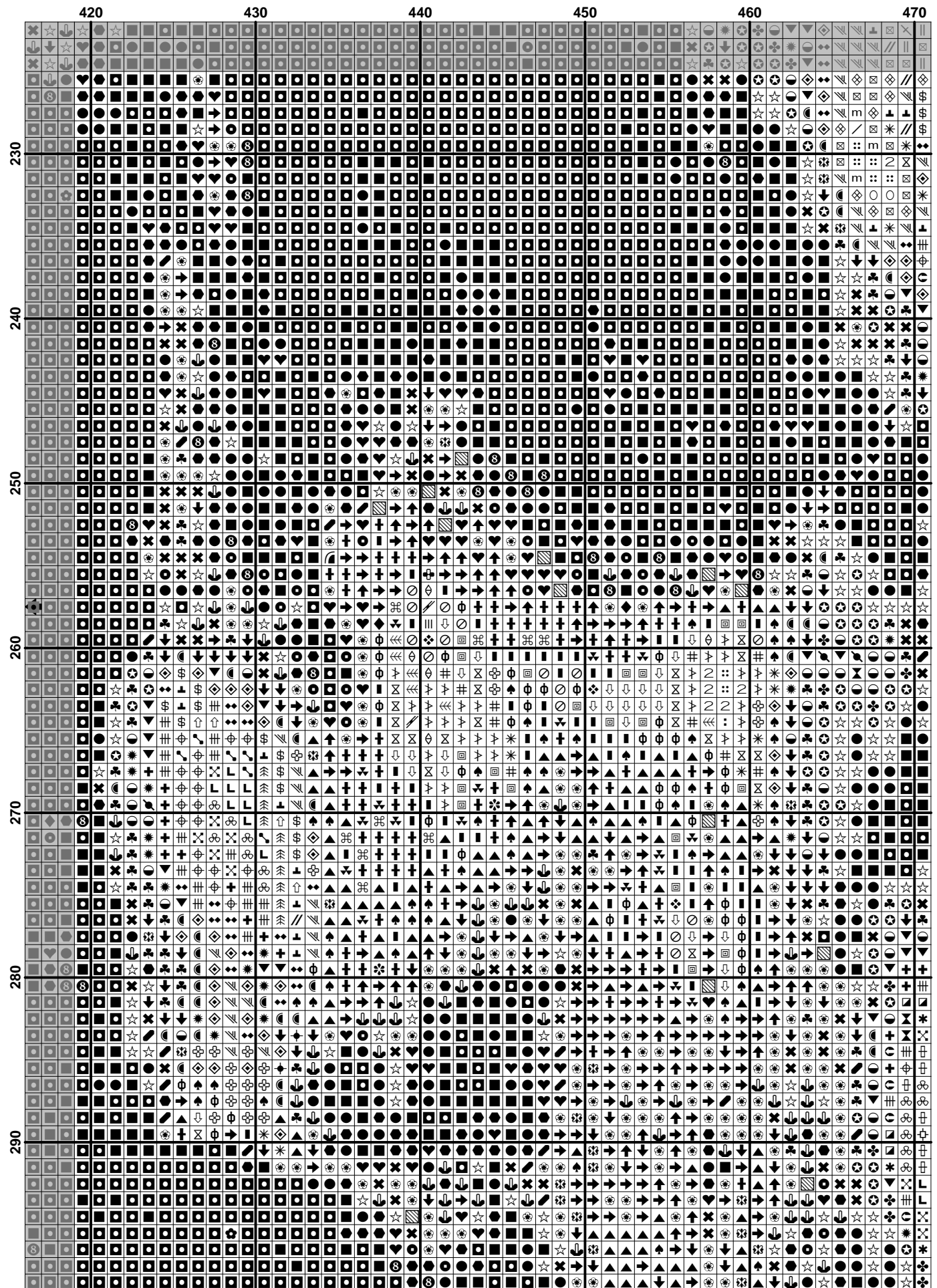


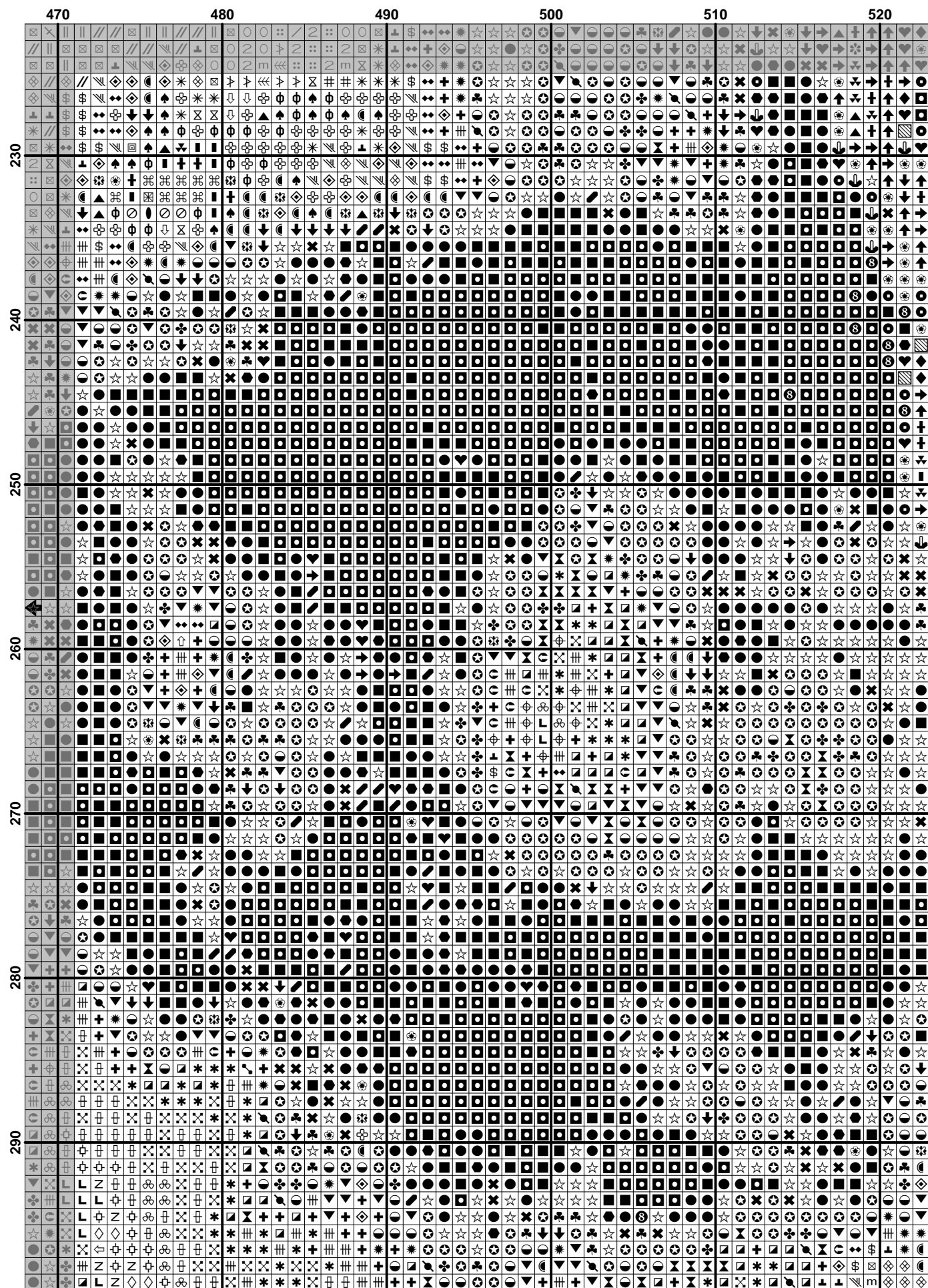




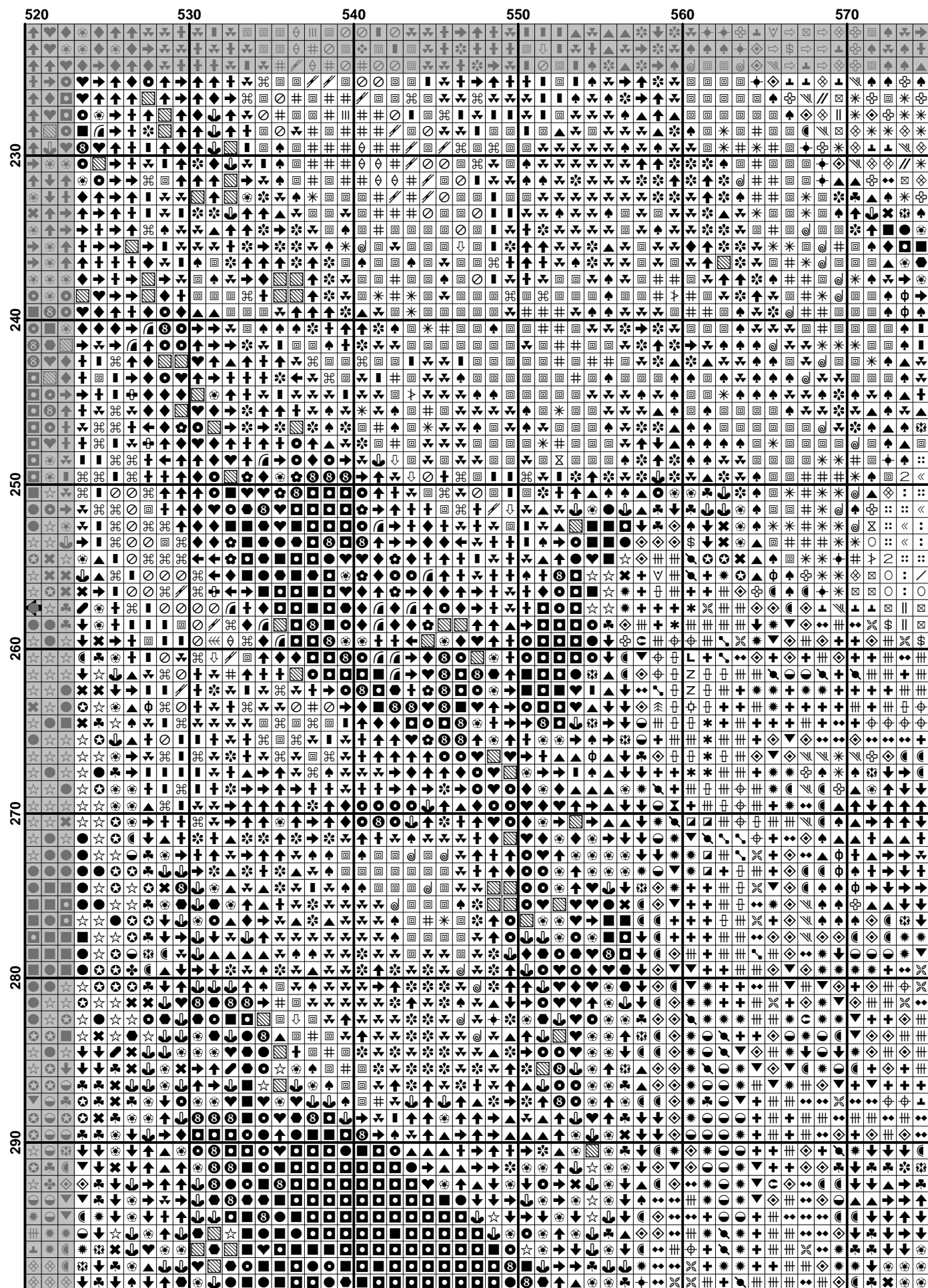


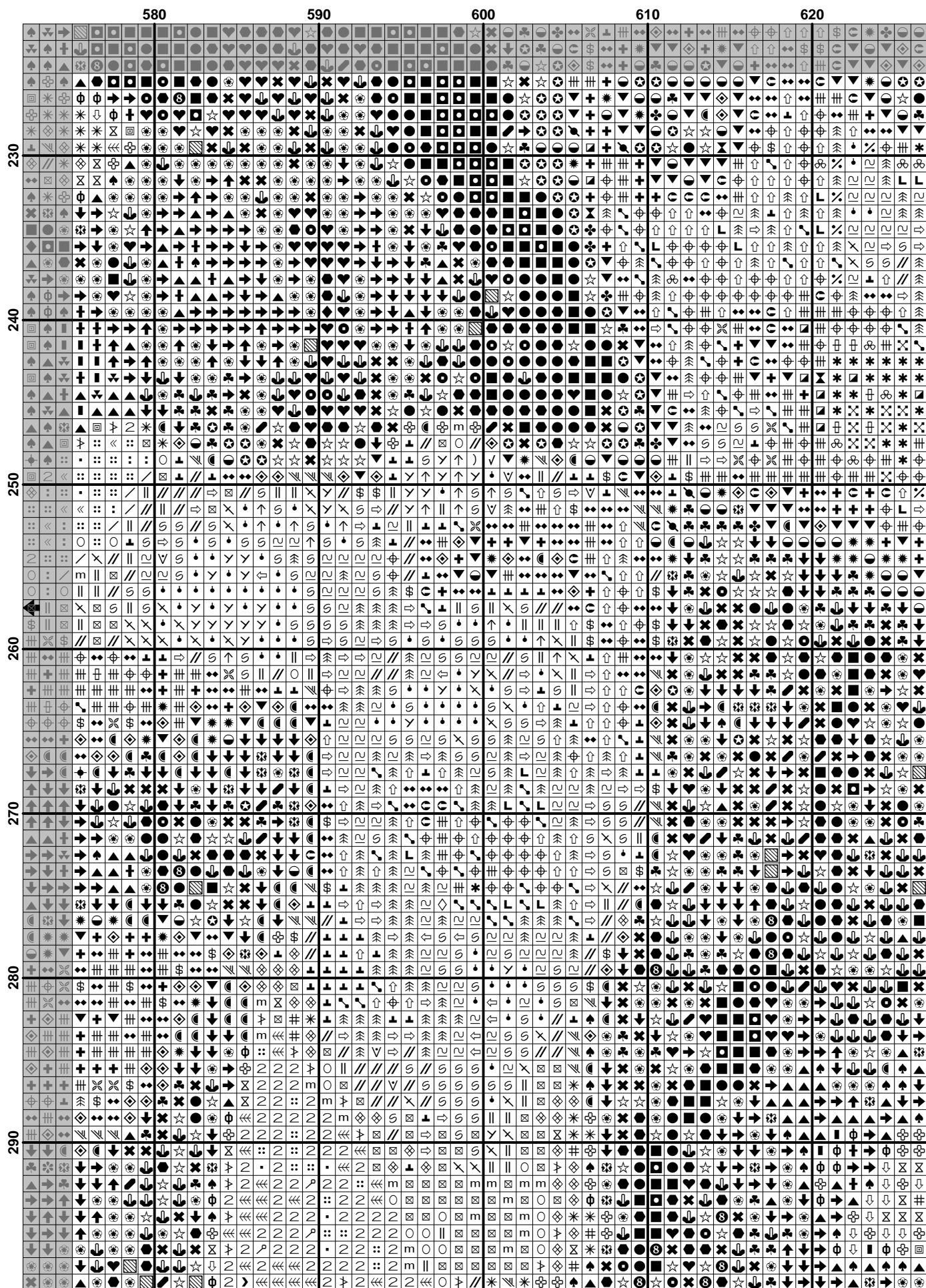


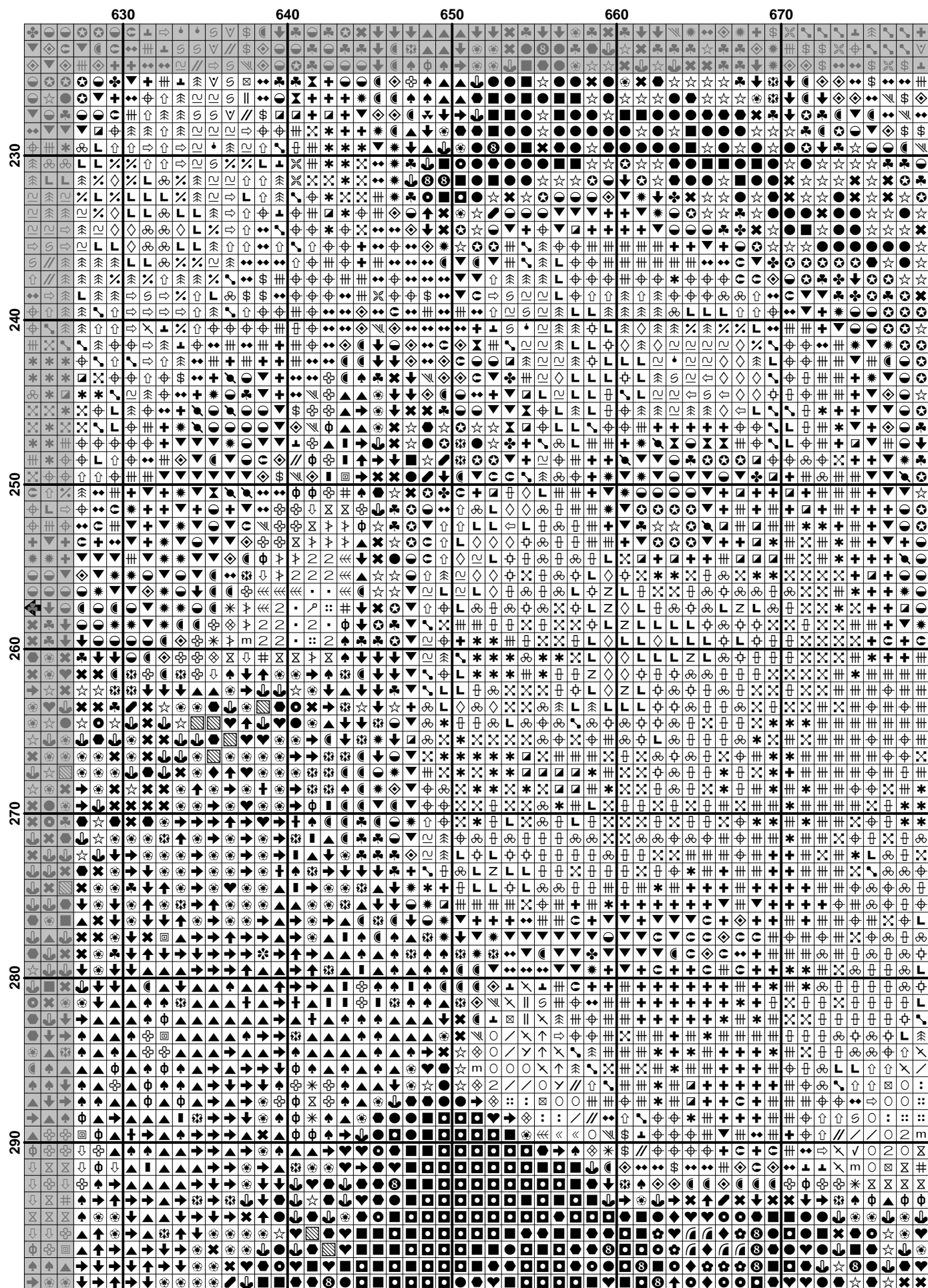


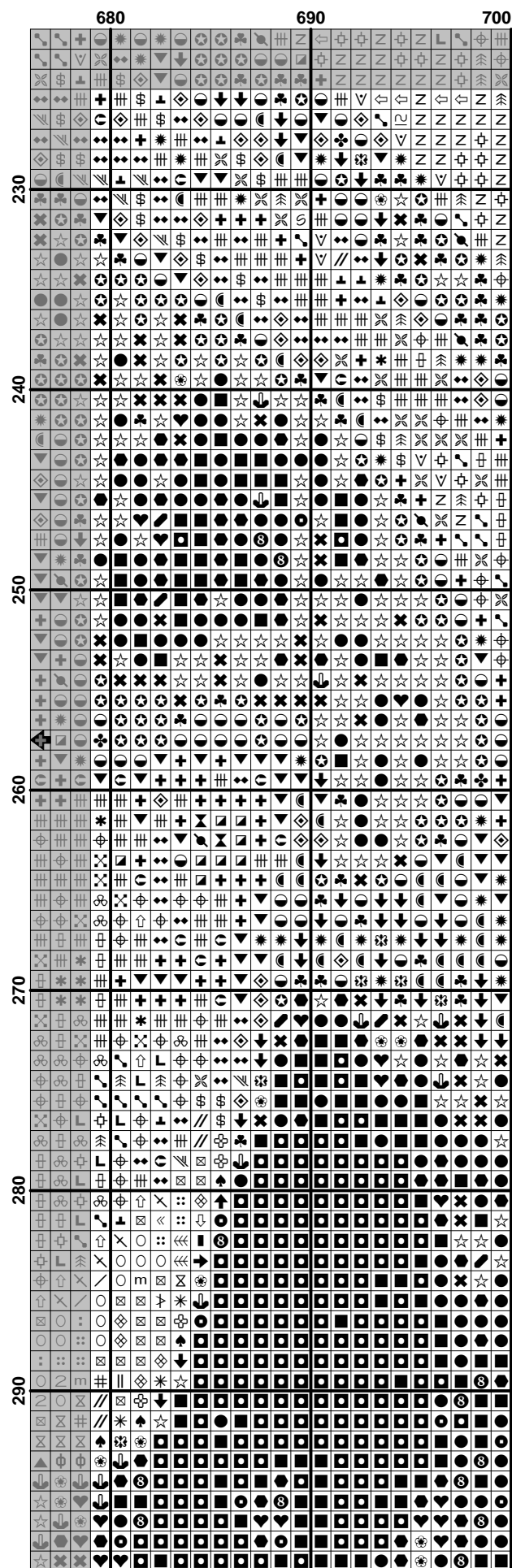












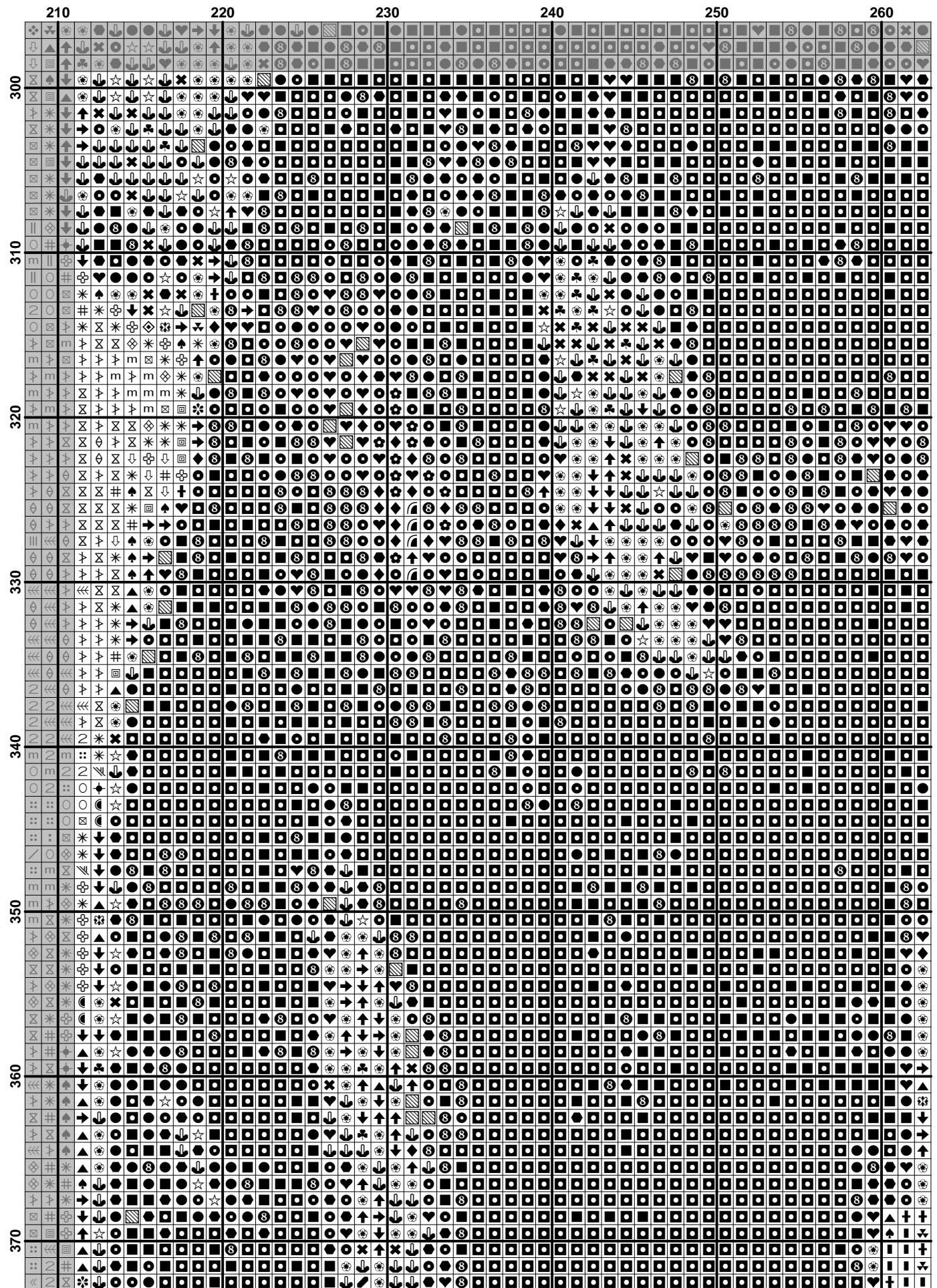
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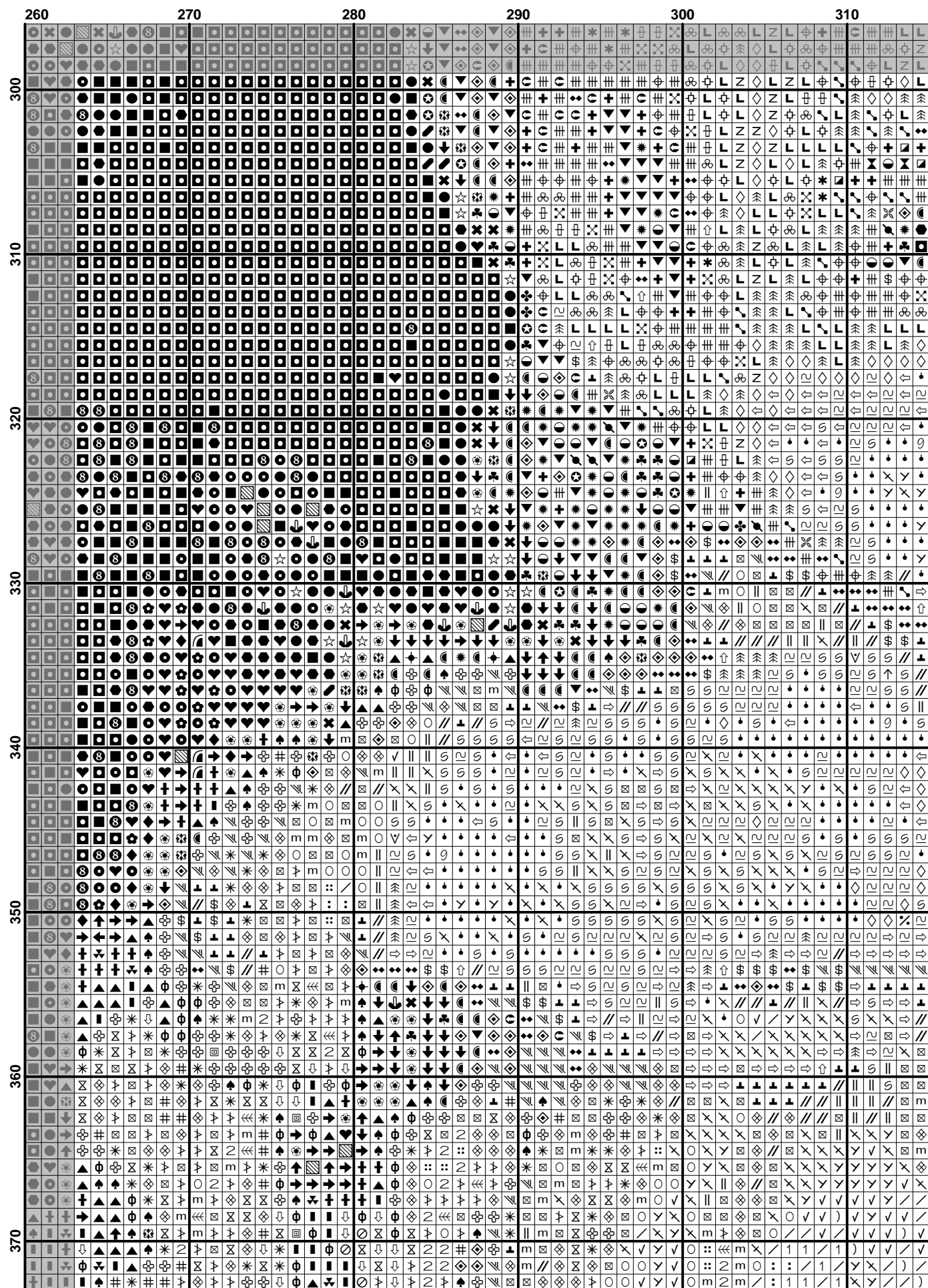
$$(72) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

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300					
310					
320					
330					
340					
350					
360					
370					

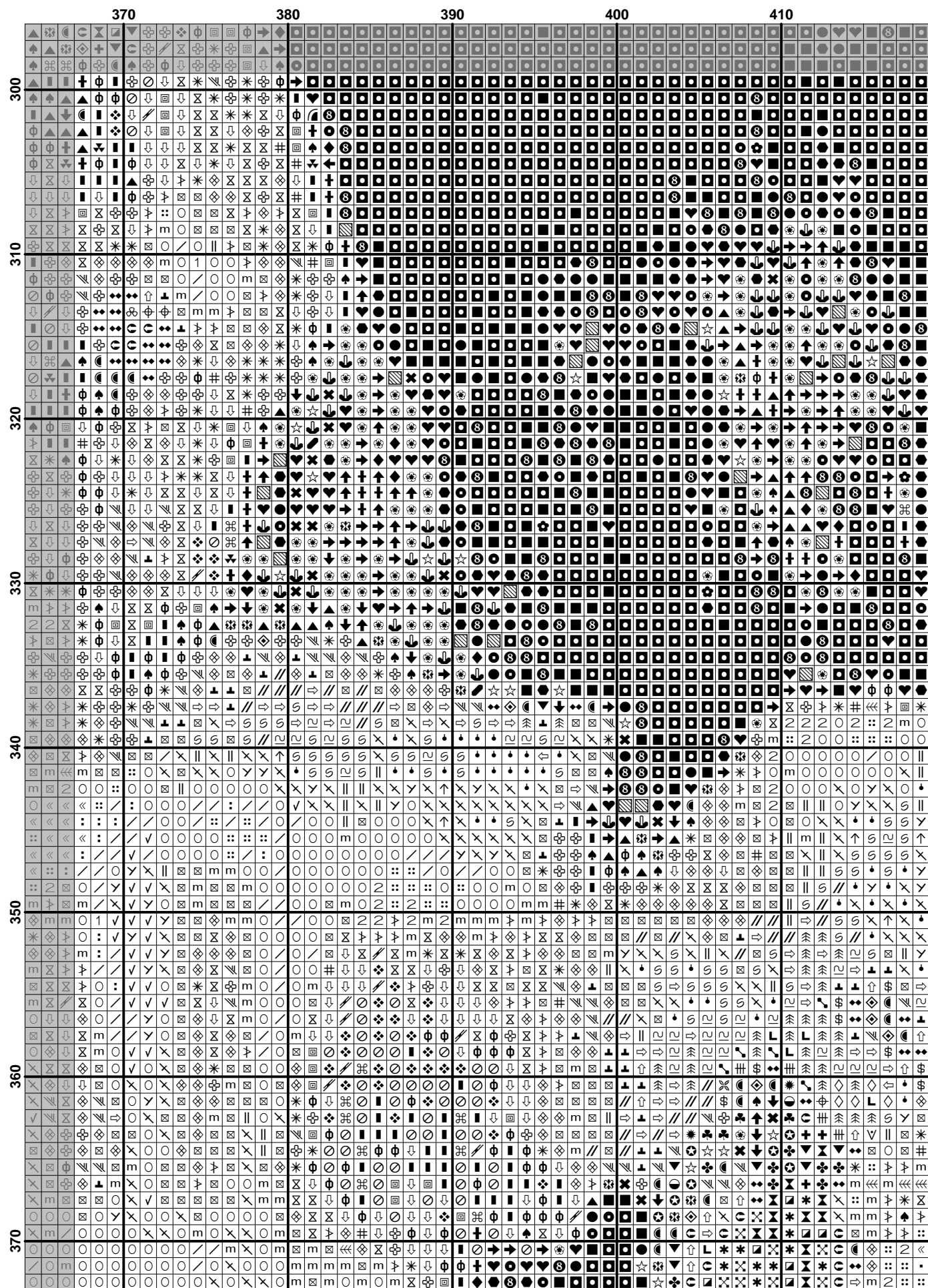


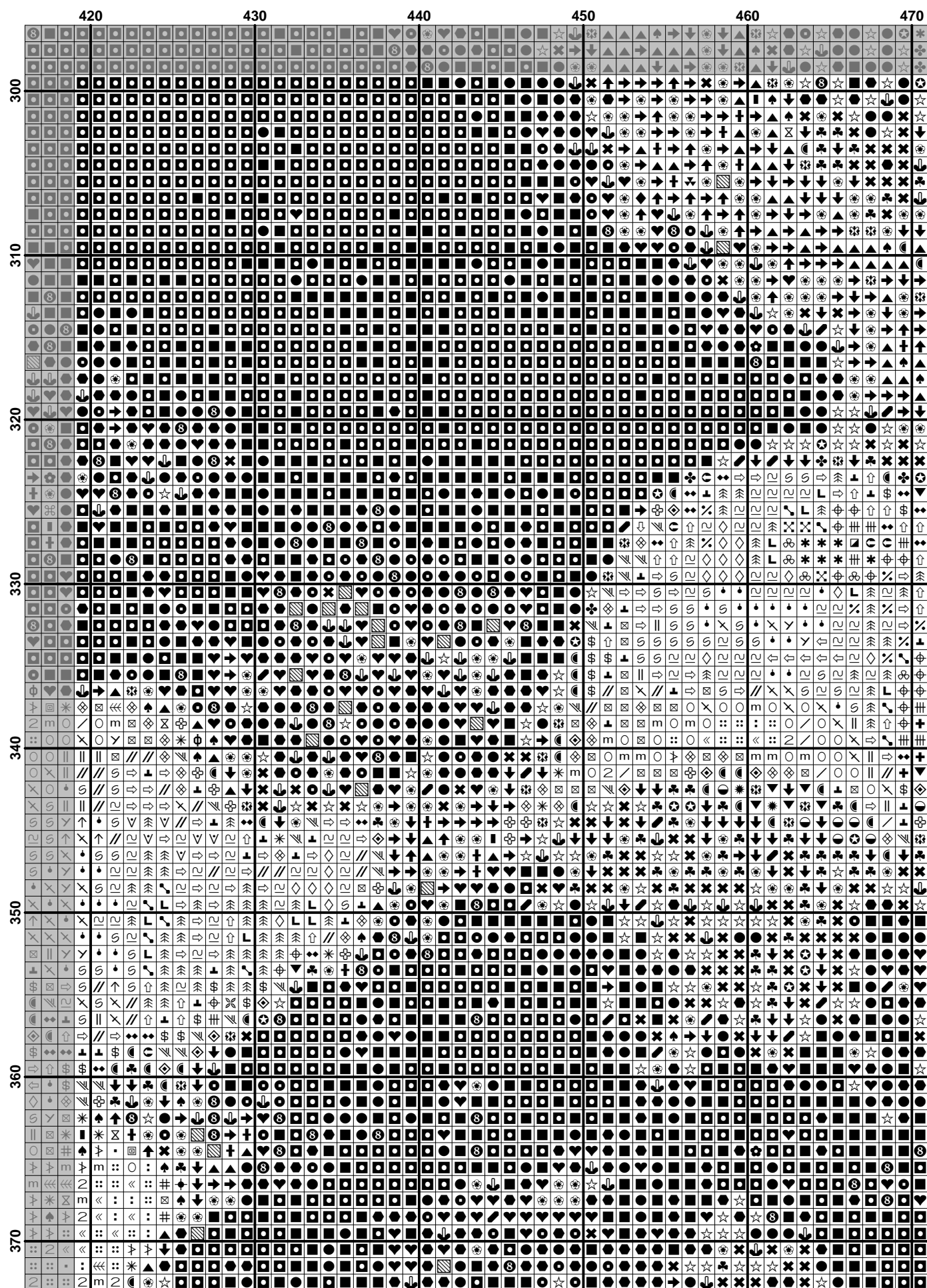
	160	170	180	190	200	210
300	...	...	...	...	...	...
310	...	...	...	...	...	...
320	...	...	...	...	...	...
330	...	...	...	...	...	...
340	...	...	...	...	...	...
350	...	...	...	...	...	...
360	...	...	...	...	...	...
370	...	...	...	...	...	...

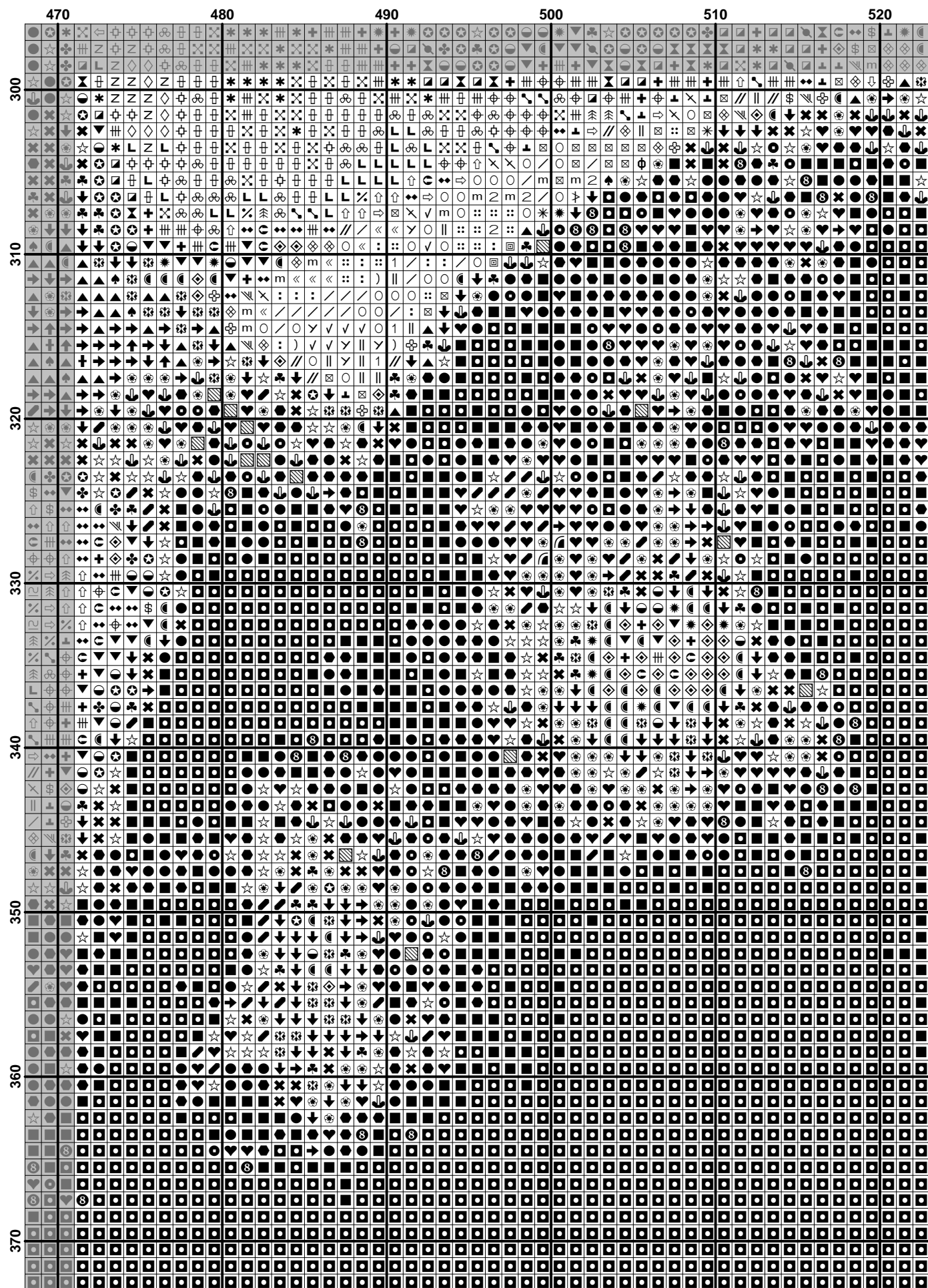




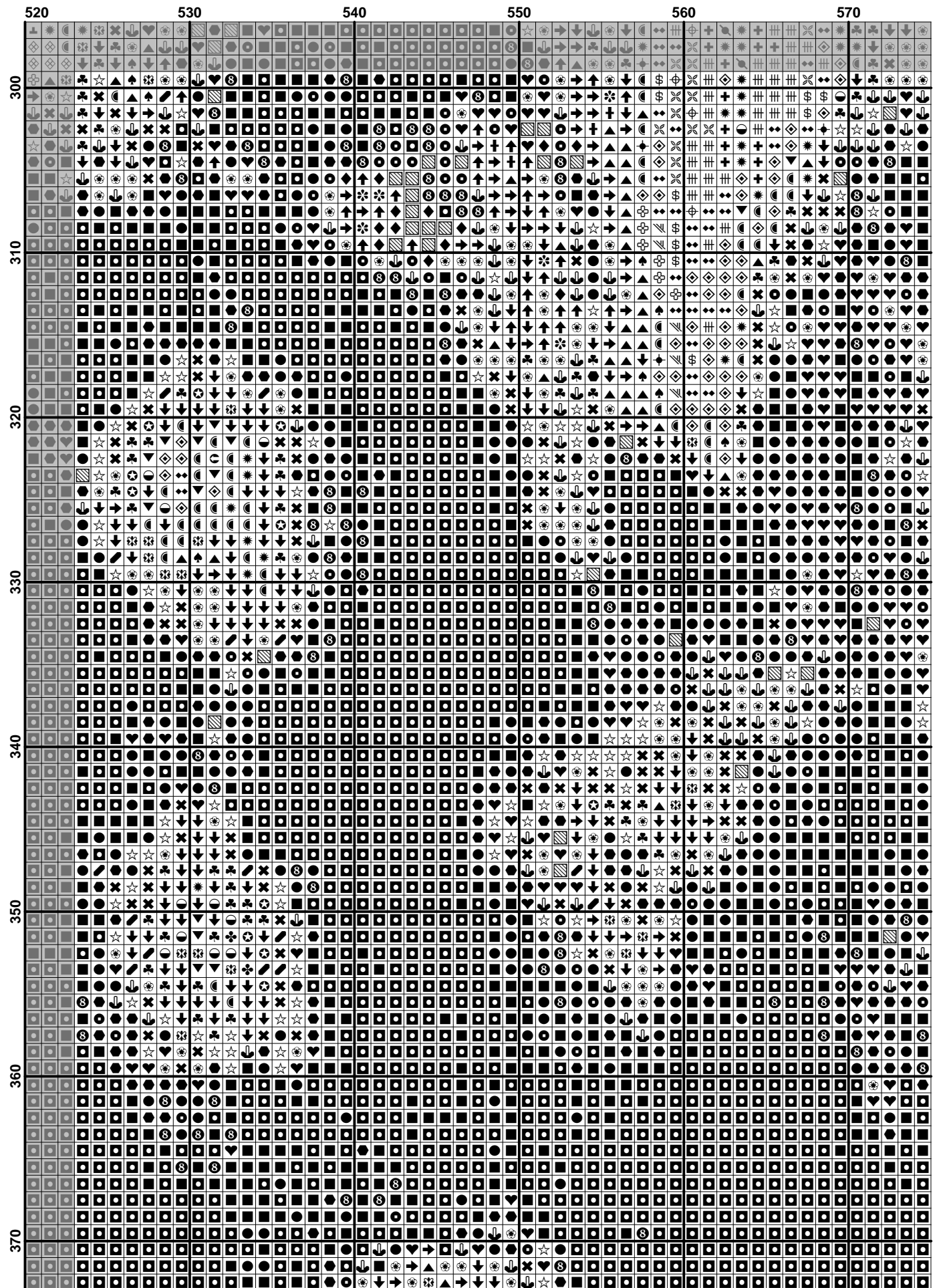
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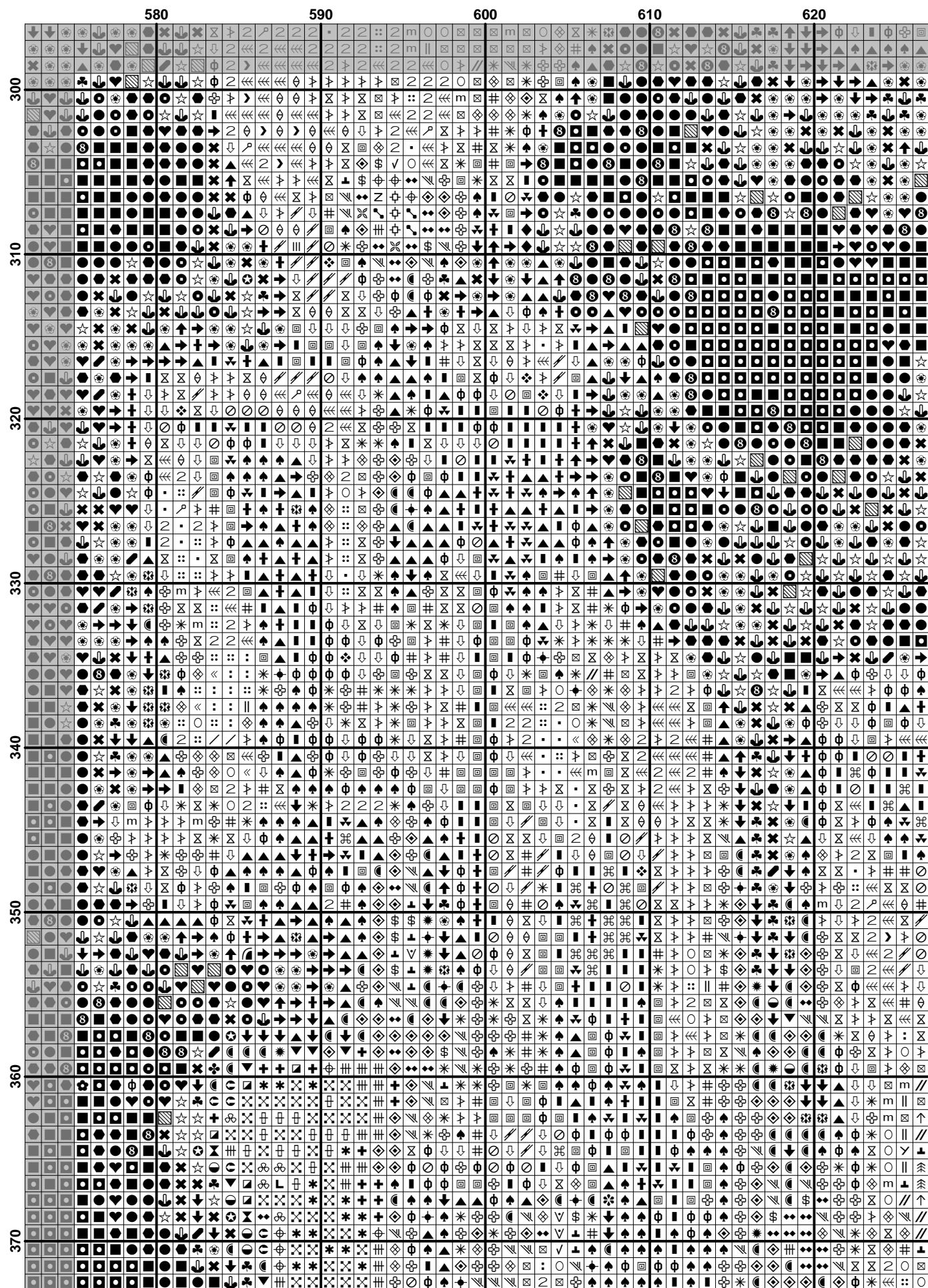


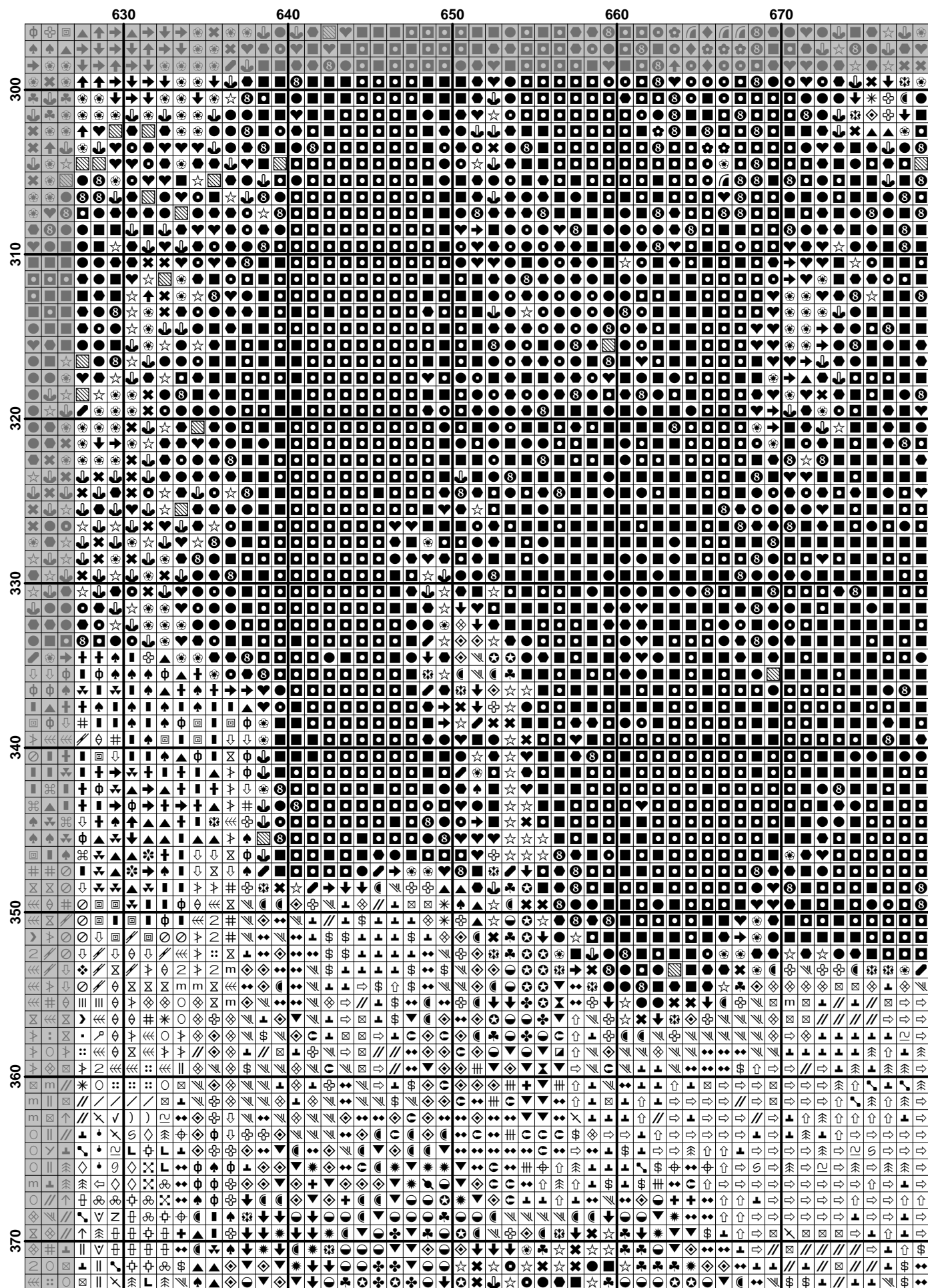


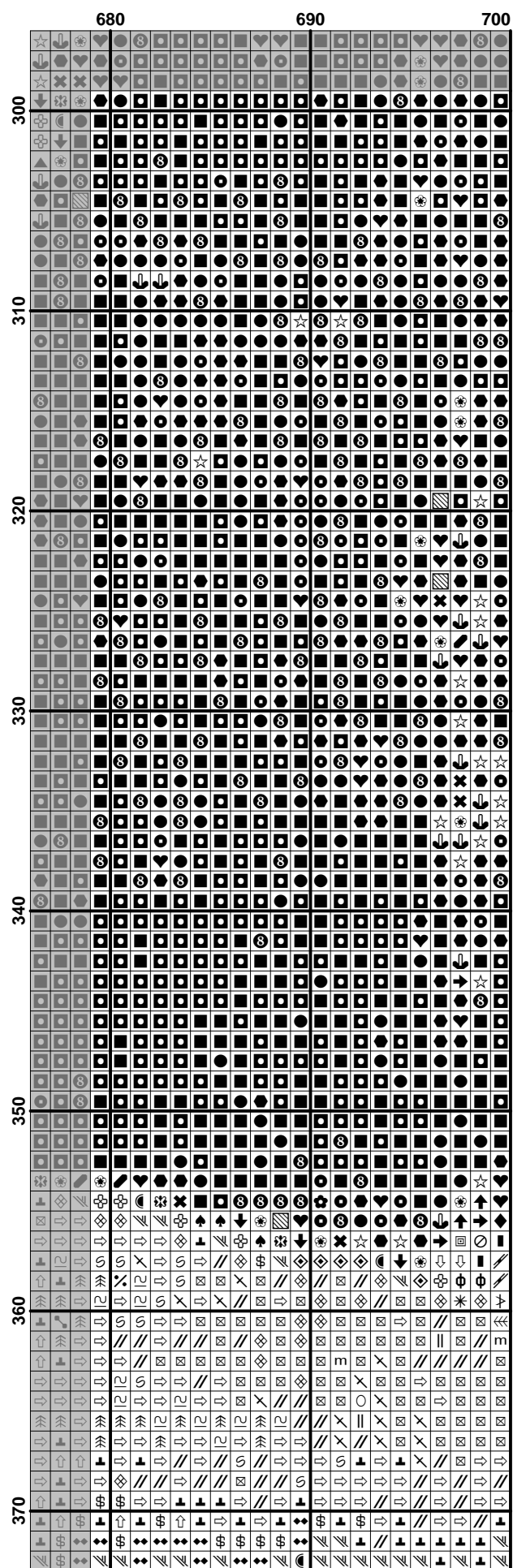


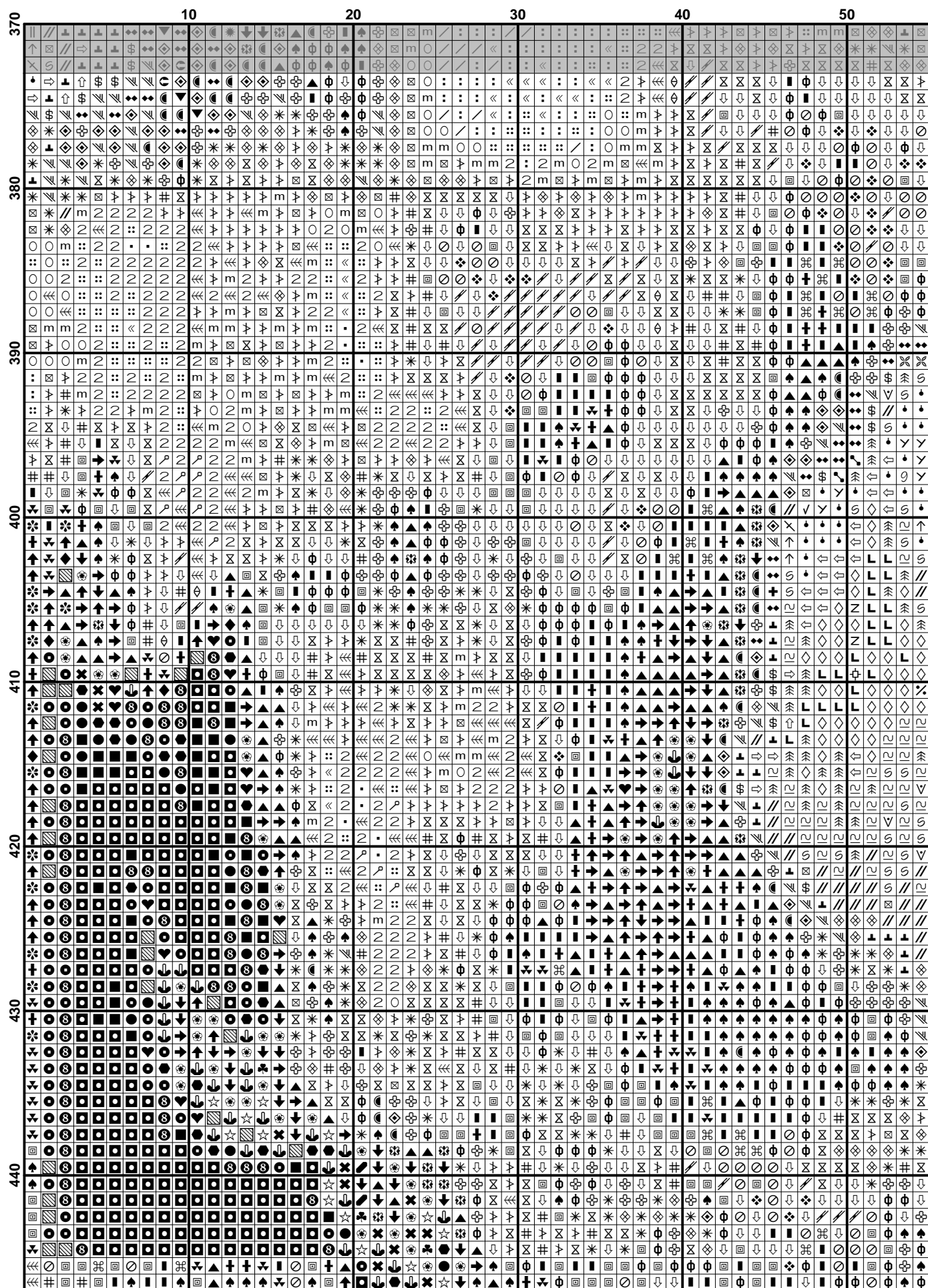


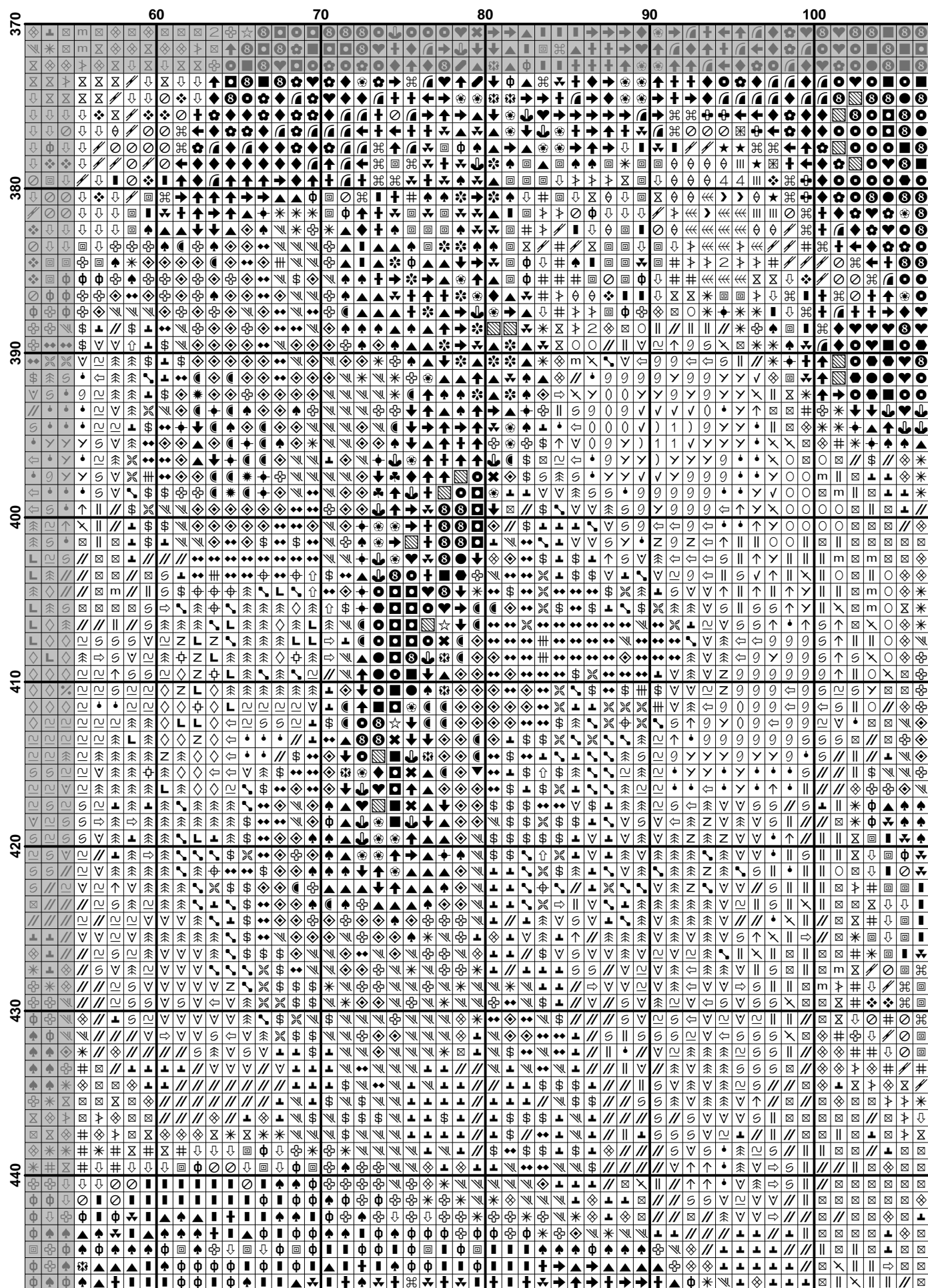












	110	120	130	140	150
370					
380					
390					
400					
410					
420					
430					
440					



