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437 The Grand Canal



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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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The Grand Canal

Stitch Count	
Horizontal:	698
Vertical:	454

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	49.82	83	32.3	111	43.59	72	28.26	99	38.75	64	25.125
Including Margins:	143	56	99	39	127	50	88	35	115	45	80	32
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	177	69.74	116	45.22	148	58.12	96	37.68	74	29.06	48	18.84
Including Margins:	193	76	132	52	164	65	112	44	90	36	64	25
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	71	27.89	46	18.08	68	26.82	44	17.39	65	25.83	43	16.74
Including Margins:	87	34	62	25	84	33	60	24	81	32	59	23
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	63	24.91	41	16.15	59	23.24	38	15.07	55	21.79	36	14.13
Including Margins:	79	31	57	23	75	30	54	22	71	28	52	21

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
!	223	Shell Pink-LT
▲	317	Pewter Gray
♥	413	Pewter Gray-DK
✱	414	Steel Gray-DK
★	415	Pearl Gray
⊕	452	Shell Gray-MD
◐	503	Blue Green-MD
▼	646	Beaver Gray-DK
✱	648	Beaver Gray-LT
◊	677	Old Gold-VY LT
〉	712	Cream
z	739	Tan-UL VY LT
:	746	Off White
\$	758	Terra Cotta-VY LT
⊙	762	Pearl Gray-VY LT
⊙	794	Cornflower Blue-LT
+	813	Blue-LT
●	816	Garnet
■	823	Navy Blue-DK
⊙	833	Golden Olive-LT
◐	926	Gray Green-MD
⊕	927	Gray Green-LT
⇄	928	Gray Green-VY LT
☆	930	Antique Blue-DK
†	931	Antique Blue-MD
✱	943	Bright Green-MD
〉	948	Peach-VY LT
L	950	Desert Sand-LT

↓	3041	Antique Violet-MD
✱	3042	Antique Violet-LT
//	3072	Beaver Gray-VY LT
3	3078	Golden Yellow-VY LT
✱	3325	Baby Blue-LT
⊙	3328	Salmon-DK
◊	3721	Shell Pink-DK
✱	3722	Shell Pink-MD
≡	3733	Dusty Rose
✱	3740	Antique Violet-DK
⇄	3743	Antique Violet-VY LT
#	3747	Blue Violet-VY LT
✱	3752	Antique Blue-VY LT
↑	3753	Antique Blue-UL VY LT
⊙	3755	Baby Blue
◊	3756	Baby Blue-UL VY LT
⊙	3761	Sky Blue-LT
↓	3768	Gray Green-DK
=	3770	Tawny-VY LT
◊	3776	Mahogany-LT
⊙	3778	Terra Cotta-LT
⊙	3782	Mocha Brown-LT
→	3790	Beige Gray-UL DK
⊙	3802	Antique Mauve-VY DK
◊	3832	Raspberry-MD
↘	3840	Lavender Blue-LT
■	3849	Teal Green-LT
◊	3855	Autumn Gold-LT
↑	3860	Cocoa
•	3865	Winter White
‡	Ecru	Ecru

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

Symbol	DMC1	Name1	DMC2	Name2
	3802	Antique Mauve-VY DK	3721	Shell Pink-DK
	3756	Baby Blue-UL VY LT	762	Pearl Gray-VY LT
	3778	Terra Cotta-LT	758	Terra Cotta-VY LT
	3823	Yellow-UL Pale	951	Tawny-LT
	814	Garnet-DK	310	Black
	3072	Beaver Gray-VY LT	ecru	Ecru
	3752	Antique Blue-VY LT	794	Cornflower Blue-LT
	3865	Winter White	712	Cream
	762	Pearl Gray-VY LT	928	Gray Green-VY LT
	806	Peacock Blue-DK	813	Blue-LT
	415	Pearl Gray	3042	Antique Violet-LT
	3743	Antique Violet-VY LT	762	Pearl Gray-VY LT
	3752	Antique Blue-UL VY LT	3753	Antique Blue-UL VY LT
	677	Old Gold-VY LT	758	Terra Cotta-VY LT
	3832	Raspberry-MD	3722	Shell Pink-MD
	3721	Shell Pink-DK	3722	Shell Pink-MD
	3855	Autumn Gold-LT	758	Terra Cotta-VY LT
	3778	Terra Cotta-LT	3820	Straw-DK
	816	Garnet	3832	Raspberry-MD
	3778	Terra Cotta-LT	3722	Shell Pink-MD
	3782	Mocha Brown-LT	3733	Dusty Rose
	223	Shell Pink-LT	3782	Mocha Brown-LT
	646	Beaver Gray-DK	223	Shell Pink-LT
	3778	Terra Cotta-LT	3328	Salmon-DK
	452	Shell Gray-MD	3743	Antique Violet-VY LT
	931	Antique Blue-MD	794	Cornflower Blue-LT
	3042	Antique Violet-LT	414	Steel Gray-DK
	3802	Antique Mauve-VY DK	3722	Shell Pink-MD
	3802	Antique Mauve-VY DK	823	Navy Blue-DK
	3740	Antique Violet-DK	3041	Antique Violet-MD
	3740	Antique Violet-DK	823	Navy Blue-DK
	3802	Antique Mauve-VY DK	3740	Antique Violet-DK
	931	Antique Blue-MD	3765	Peacock Blue-VY DK
	3768	Gray Green-DK	931	Antique Blue-MD
	3849	Teal Green-LT	931	Antique Blue-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	
223	Shell Pink-LT	1497	589	1426	561	1283	505
310	Black	459	180	437	172	393	154
317	Pewter Gray	657	258	625	246	563	221
413	Pewter Gray-DK	435	171	415	163	373	146
414	Steel Gray-DK	1297	510	1235	486	1111	437
415	Pearl Gray	1153	453	1098	432	988	388
452	Shell Gray-MD	1047	412	997	392	898	353
503	Blue Green-MD	346	136	329	129	296	116
646	Beaver Gray-DK	709	279	675	265	607	238
648	Beaver Gray-LT	917	361	873	343	786	309
677	Old Gold-VY LT	548	215	522	205	470	185
712	Cream	3448	1357	3284	1292	2955	1163
739	Tan-UL VY LT	886	348	844	332	760	299
746	Off White	974	383	928	365	835	328
758	Terra Cotta-VY LT	2139	842	2037	801	1833	721
762	Pearl Gray-VY LT	9372	3689	8926	3514	8033	3162
794	Cornflower Blue-LT	2165	852	2062	811	1856	730
806	Peacock Blue-DK	185	72	177	69	159	62
813	Blue-LT	1975	777	1881	740	1693	666
814	Garnet-DK	459	180	437	172	393	154
816	Garnet	97	38	92	36	83	32
823	Navy Blue-DK	1322	520	1259	495	1133	446
833	Golden Olive-LT	27	10	25	9	23	9
926	Gray Green-MD	744	292	708	278	637	250
927	Gray Green-LT	1323	520	1260	496	1134	446
928	Gray Green-VY LT	1761	693	1677	660	1509	594
930	Antique Blue-DK	392	154	373	146	336	132
931	Antique Blue-MD	2184	859	2080	818	1872	737
943	Bright Green-MD	165	64	158	62	142	55
948	Peach-VY LT	1095	431	1042	410	938	369
950	Desert Sand-LT	1261	496	1201	472	1081	425
951	Tawny-LT	728	286	693	272	624	245
3041	Antique Violet-MD	548	215	522	205	469	184
3042	Antique Violet-LT	908	357	865	340	778	306
3072	Beaver Gray-VY LT	3362	1323	3202	1260	2882	1134
3078	Golden Yellow-VY LT	263	103	250	98	225	88
3325	Baby Blue-LT	1171	461	1115	438	1004	395
3328	Salmon-DK	137	53	130	51	117	46
3721	Shell Pink-DK	366	144	349	137	314	123
3722	Shell Pink-MD	1235	486	1176	462	1058	416
3733	Dusty Rose	519	204	495	194	445	175
3740	Antique Violet-DK	1031	405	982	386	883	347
3743	Antique Violet-VY LT	1351	531	1286	506	1158	455
3747	Blue Violet-VY LT	1425	561	1357	534	1221	480
3752	Antique Blue-VY LT	5023	1977	4783	1883	4305	1694
3753	Antique Blue-UL VY LT	5937	2337	5654	2225	5089	2003
3755	Baby Blue	1341	527	1278	503	1150	452
3756	Baby Blue-UL VY LT	7922	3118	7545	2970	6790	2673
3761	Sky Blue-LT	535	210	510	200	459	180
3765	Peacock Blue-VY DK	50	19	47	18	43	16
3768	Gray Green-DK	1261	496	1201	472	1081	425
3770	Tawny-VY LT	716	281	682	268	613	241
3776	Mahogany-LT	32	12	30	11	27	10

3778	Terra Cotta-LT	1021	401	972	382	875	344
3782	Mocha Brown-LT	1454	572	1384	544	1246	490
3790	Beige Gray-UL DK	102	40	97	38	88	34
3802	Antique Mauve-VY DK	1182	465	1126	443	1013	398
3820	Straw-DK	70	27	66	25	60	23
3823	Yellow-UL Pale	728	286	693	272	624	245
3832	Raspberry-MD	220	86	210	82	189	74
3840	Lavender Blue-LT	92	36	88	34	79	31
3849	Teal Green-LT	750	295	714	281	642	252
3855	Autumn Gold-LT	416	163	396	155	357	140
3860	Cocoa	323	127	308	121	277	109
3865	Winter White	4764	1875	4538	1786	4084	1607
ecru	Ecrú	1380	543	1315	517	1183	465

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
223	Shell Pink-LT	2309	909	1925	758	962	379
310	Black	707	277	590	231	295	116
317	Pewter Gray	1013	398	845	332	422	166
413	Pewter Gray-DK	671	263	560	219	280	110
414	Steel Gray-DK	2000	787	1667	656	833	328
415	Pearl Gray	1778	698	1482	582	741	291
452	Shell Gray-MD	1616	635	1347	530	674	265
503	Blue Green-MD	533	209	444	174	222	87
646	Beaver Gray-DK	1093	428	911	357	455	179
648	Beaver Gray-LT	1415	556	1179	464	590	232
677	Old Gold-VY LT	846	333	705	278	353	139
712	Cream	5319	2093	4433	1745	2216	872
739	Tan-UL VY LT	1368	538	1140	449	570	224
746	Off White	1503	590	1253	492	626	246
758	Terra Cotta-VY LT	3299	1298	2750	1082	1375	541
762	Pearl Gray-VY LT	14459	5692	12050	4743	6025	2372
794	Cornflower Blue-LT	3341	1314	2784	1095	1392	548
806	Peacock Blue-DK	286	112	239	93	119	47
813	Blue-LT	3047	1199	2540	999	1270	500
814	Garnet-DK	707	277	590	231	295	116
816	Garnet	149	58	125	48	62	24
823	Navy Blue-DK	2039	803	1700	669	850	335
833	Golden Olive-LT	41	16	35	14	17	7
926	Gray Green-MD	1147	450	956	375	478	188
927	Gray Green-LT	2041	803	1701	669	851	335
928	Gray Green-VY LT	2716	1069	2264	891	1132	446
930	Antique Blue-DK	605	238	504	198	252	99
931	Antique Blue-MD	3370	1327	2808	1106	1404	553
943	Bright Green-MD	256	99	213	83	107	41
948	Peach-VY LT	1688	664	1407	554	704	277
950	Desert Sand-LT	1946	765	1622	638	811	319
951	Tawny-LT	1123	441	936	368	468	184
3041	Antique Violet-MD	844	331	704	276	352	138
3042	Antique Violet-LT	1400	551	1167	459	584	230
3072	Beaver Gray-VY LT	5188	2041	4323	1701	2162	851
3078	Golden Yellow-VY LT	405	158	338	132	169	66
3325	Baby Blue-LT	1807	711	1506	593	753	296
3328	Salmon-DK	211	83	176	69	88	35
3721	Shell Pink-DK	565	221	471	185	236	92

3722	Shell Pink-MD	1904	749	1587	624	794	312
3733	Dusty Rose	801	315	668	263	334	131
3740	Antique Violet-DK	1589	625	1325	521	662	260
3743	Antique Violet-VY LT	2084	819	1737	683	869	341
3747	Blue Violet-VY LT	2198	864	1832	720	916	360
3752	Antique Blue-VY LT	7749	3049	6458	2541	3229	1271
3753	Antique Blue-UL VY LT	9160	3605	7634	3005	3817	1502
3755	Baby Blue	2070	814	1725	678	863	339
3756	Baby Blue-UL VY LT	12222	4811	10185	4010	5093	2005
3761	Sky Blue-LT	826	324	689	270	344	135
3765	Peacock Blue-VY DK	77	29	65	24	32	12
3768	Gray Green-DK	1946	765	1622	638	811	319
3770	Tawny-VY LT	1103	434	920	362	460	181
3776	Mahogany-LT	49	18	41	15	20	8
3778	Terra Cotta-LT	1575	619	1313	516	656	258
3782	Mocha Brown-LT	2243	882	1869	735	935	368
3790	Beige Gray-UL DK	158	61	132	51	66	26
3802	Antique Mauve-VY DK	1823	716	1520	597	760	299
3820	Straw-DK	108	41	90	35	45	17
3823	Yellow-UL Pale	1123	441	936	368	468	184
3832	Raspberry-MD	340	133	284	111	142	56
3840	Lavender Blue-LT	142	56	119	47	59	23
3849	Teal Green-LT	1156	454	963	378	482	189
3855	Autumn Gold-LT	643	252	536	210	268	105
3860	Cocoa	499	196	416	164	208	82
3865	Winter White	7351	2893	6126	2411	3063	1205
ecru	Ecru	2129	837	1775	698	887	349

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
223	Shell Pink-LT	924	364	888	350	855	337
310	Black	283	111	272	107	262	103
317	Pewter Gray	405	159	390	153	375	147
413	Pewter Gray-DK	269	105	258	101	249	97
414	Steel Gray-DK	800	315	769	303	741	291
415	Pearl Gray	711	279	684	269	659	259
452	Shell Gray-MD	647	254	622	244	599	235
503	Blue Green-MD	213	84	205	80	197	77
646	Beaver Gray-DK	437	171	420	165	405	159
648	Beaver Gray-LT	566	222	544	214	524	206
677	Old Gold-VY LT	338	133	325	128	313	123
712	Cream	2128	837	2046	805	1970	775
739	Tan-UL VY LT	547	215	526	207	507	199
746	Off White	601	236	578	227	557	219
758	Terra Cotta-VY LT	1320	519	1269	499	1222	481
762	Pearl Gray-VY LT	5784	2277	5561	2189	5355	2108
794	Cornflower Blue-LT	1336	526	1285	505	1237	487
806	Peacock Blue-DK	114	45	110	43	106	41
813	Blue-LT	1219	480	1172	461	1129	444
814	Garnet-DK	283	111	272	107	262	103
816	Garnet	60	23	57	22	55	21
823	Navy Blue-DK	816	321	784	309	755	297
833	Golden Olive-LT	17	6	16	6	15	6
926	Gray Green-MD	459	180	441	173	425	167
927	Gray Green-LT	816	321	785	309	756	297

928	Gray Green-VY LT	1086	428	1045	411	1006	396
930	Antique Blue-DK	242	95	233	91	224	88
931	Antique Blue-MD	1348	531	1296	510	1248	491
943	Bright Green-MD	102	40	98	38	95	37
948	Peach-VY LT	675	266	649	255	625	246
950	Desert Sand-LT	778	306	748	294	721	283
951	Tawny-LT	449	176	432	170	416	163
3041	Antique Violet-MD	338	132	325	127	313	123
3042	Antique Violet-LT	560	220	539	212	519	204
3072	Beaver Gray-VY LT	2075	816	1995	785	1921	756
3078	Golden Yellow-VY LT	162	63	156	61	150	59
3325	Baby Blue-LT	723	284	695	273	669	263
3328	Salmon-DK	84	33	81	32	78	31
3721	Shell Pink-DK	226	89	217	85	209	82
3722	Shell Pink-MD	762	300	732	288	705	277
3733	Dusty Rose	320	126	308	121	297	117
3740	Antique Violet-DK	636	250	611	240	589	231
3743	Antique Violet-VY LT	834	328	802	315	772	303
3747	Blue Violet-VY LT	879	346	845	332	814	320
3752	Antique Blue-VY LT	3100	1220	2980	1173	2870	1129
3753	Antique Blue-UL VY LT	3664	1442	3523	1387	3393	1335
3755	Baby Blue	828	325	796	313	767	301
3756	Baby Blue-UL VY LT	4889	1925	4701	1851	4527	1782
3761	Sky Blue-LT	330	130	318	125	306	120
3765	Peacock Blue-VY DK	31	12	30	11	29	11
3768	Gray Green-DK	778	306	748	294	721	283
3770	Tawny-VY LT	441	174	424	167	409	161
3776	Mahogany-LT	19	7	19	7	18	7
3778	Terra Cotta-LT	630	248	606	238	583	229
3782	Mocha Brown-LT	897	353	863	339	831	327
3790	Beige Gray-UL DK	63	24	61	24	59	23
3802	Antique Mauve-VY DK	729	287	701	276	675	265
3820	Straw-DK	43	17	42	16	40	15
3823	Yellow-UL Pale	449	176	432	170	416	163
3832	Raspberry-MD	136	53	131	51	126	49
3840	Lavender Blue-LT	57	22	55	21	53	21
3849	Teal Green-LT	462	181	444	174	428	168
3855	Autumn Gold-LT	257	101	247	97	238	93
3860	Cocoa	199	78	192	75	185	73
3865	Winter White	2940	1157	2827	1113	2723	1071
ecru	Ecu	852	335	819	322	789	310

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
223	Shell Pink-LT	825	325	770	303	722	284
310	Black	253	99	236	92	221	87
317	Pewter Gray	362	142	338	133	317	124
413	Pewter Gray-DK	240	94	224	88	210	82
414	Steel Gray-DK	714	281	667	262	625	246
415	Pearl Gray	635	249	593	233	556	218
452	Shell Gray-MD	577	227	539	212	505	199
503	Blue Green-MD	190	75	178	70	167	65
646	Beaver Gray-DK	390	153	364	143	341	134
648	Beaver Gray-LT	505	199	472	185	442	174
677	Old Gold-VY LT	302	119	282	111	264	104
712	Cream	1900	748	1773	698	1662	654

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739	Tan-UL VY LT	489	192	456	179	428	168
746	Off White	537	211	501	197	470	185
758	Terra Cotta-VY LT	1178	464	1100	433	1031	406
762	Pearl Gray-VY LT	5164	2033	4820	1897	4519	1779
794	Cornflower Blue-LT	1193	469	1114	438	1044	411
806	Peacock Blue-DK	102	40	95	37	89	35
813	Blue-LT	1088	428	1016	400	952	375
814	Garnet-DK	253	99	236	92	221	87
816	Garnet	53	21	50	19	47	18
823	Navy Blue-DK	728	287	680	268	637	251
833	Golden Olive-LT	15	6	14	5	13	5
926	Gray Green-MD	410	161	382	150	358	141
927	Gray Green-LT	729	287	680	268	638	251
928	Gray Green-VY LT	970	382	905	356	849	334
930	Antique Blue-DK	216	85	202	79	189	74
931	Antique Blue-MD	1203	474	1123	442	1053	415
943	Bright Green-MD	91	35	85	33	80	31
948	Peach-VY LT	603	237	563	221	528	208
950	Desert Sand-LT	695	273	649	255	608	239
951	Tawny-LT	401	158	374	147	351	138
3041	Antique Violet-MD	302	118	281	110	264	104
3042	Antique Violet-LT	500	197	467	184	438	172
3072	Beaver Gray-VY LT	1853	729	1729	680	1621	638
3078	Golden Yellow-VY LT	145	57	135	53	127	50
3325	Baby Blue-LT	645	254	602	237	565	222
3328	Salmon-DK	75	30	70	28	66	26
3721	Shell Pink-DK	202	79	188	74	177	69
3722	Shell Pink-MD	680	267	635	250	595	234
3733	Dusty Rose	286	113	267	105	250	98
3740	Antique Violet-DK	568	223	530	208	497	195
3743	Antique Violet-VY LT	744	293	695	273	651	256
3747	Blue Violet-VY LT	785	309	733	288	687	270
3752	Antique Blue-VY LT	2768	1089	2583	1016	2422	953
3753	Antique Blue-UL VY LT	3272	1288	3053	1202	2863	1127
3755	Baby Blue	739	291	690	271	647	254
3756	Baby Blue-UL VY LT	4365	1718	4074	1604	3819	1504
3761	Sky Blue-LT	295	116	275	108	258	101
3765	Peacock Blue-VY DK	28	10	26	10	24	9
3768	Gray Green-DK	695	273	649	255	608	239
3770	Tawny-VY LT	394	155	368	145	345	136
3776	Mahogany-LT	17	6	16	6	15	6
3778	Terra Cotta-LT	563	221	525	206	492	194
3782	Mocha Brown-LT	801	315	748	294	701	276
3790	Beige Gray-UL DK	57	22	53	20	50	19
3802	Antique Mauve-VY DK	651	256	608	239	570	224
3820	Straw-DK	39	15	36	14	34	13
3823	Yellow-UL Pale	401	158	374	147	351	138
3832	Raspberry-MD	122	48	113	44	106	42
3840	Lavender Blue-LT	51	20	47	19	44	17
3849	Teal Green-LT	413	162	385	151	361	142
3855	Autumn Gold-LT	230	90	214	84	201	79
3860	Cocoa	178	70	166	65	156	61
3865	Winter White	2625	1033	2450	964	2297	904
ecru	Ecrú	761	299	710	279	665	262

	10	20	30	40	50
10	★	★	★	★	★
20	★	★	★	★	★
30	★	★	★	★	★
40	★	★	★	★	★
50	★	★	★	★	★
60	★	★	★	★	★
70	★	★	★	★	★
80	★	★	★	★	★
90	★	★	★	★	★
100	★	★	★	★	★
110	★	★	★	★	★
120	★	★	★	★	★
130	★	★	★	★	★
140	★	★	★	★	★
150	★	★	★	★	★
160	★	★	★	★	★
170	★	★	★	★	★
180	★	★	★	★	★
190	★	★	★	★	★
200	★	★	★	★	★
210	★	★	★	★	★
220	★	★	★	★	★
230	★	★	★	★	★
240	★	★	★	★	★
250	★	★	★	★	★
260	★	★	★	★	★
270	★	★	★	★	★
280	★	★	★	★	★
290	★	★	★	★	★
300	★	★	★	★	★
310	★	★	★	★	★
320	★	★	★	★	★
330	★	★	★	★	★
340	★	★	★	★	★
350	★	★	★	★	★
360	★	★	★	★	★
370	★	★	★	★	★
380	★	★	★	★	★
390	★	★	★	★	★
400	★	★	★	★	★
410	★	★	★	★	★
420	★	★	★	★	★
430	★	★	★	★	★
440	★	★	★	★	★
450	★	★	★	★	★
460	★	★	★	★	★
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480	★	★	★	★	★
490	★	★	★	★	★
500	★	★	★	★	★
510	★	★	★	★	★
520	★	★	★	★	★
530	★	★	★	★	★
540	★	★	★	★	★
550	★	★	★	★	★
560	★	★	★	★	★
570	★	★	★	★	★
580	★	★	★	★	★
590	★	★	★	★	★
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650	★	★	★	★	★
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700	★	★	★	★	★
710	★	★	★	★	★
720	★	★	★	★	★
730	★	★	★	★	★
740	★	★	★	★	★
750	★	★	★	★	★
760	★	★	★	★	★
770	★	★	★	★	★
780	★	★	★	★	★
790	★	★	★	★	★
800	★	★	★	★	★
810	★	★	★	★	★
820	★	★	★	★	★
830	★	★	★	★	★
840	★	★	★	★	★
850	★	★	★	★	★
860	★	★	★	★	★
870	★	★	★	★	★
880	★	★	★	★	★
890	★	★	★	★	★
900	★	★	★	★	★
910	★	★	★	★	★
920	★	★	★	★	★
930	★	★	★	★	★
940	★	★	★	★	★
950	★	★	★	★	★
960	★	★	★	★	★
970	★	★	★	★	★
980	★	★	★	★	★
990	★	★	★	★	★
1000	★	★	★	★	★

$$(15) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

	110	120	130	140	150	160
10
20
30
40
50
60
70
80

	170	180	190	200	210	220
10						
20						
30						
40						
50						
60						
70						
80						

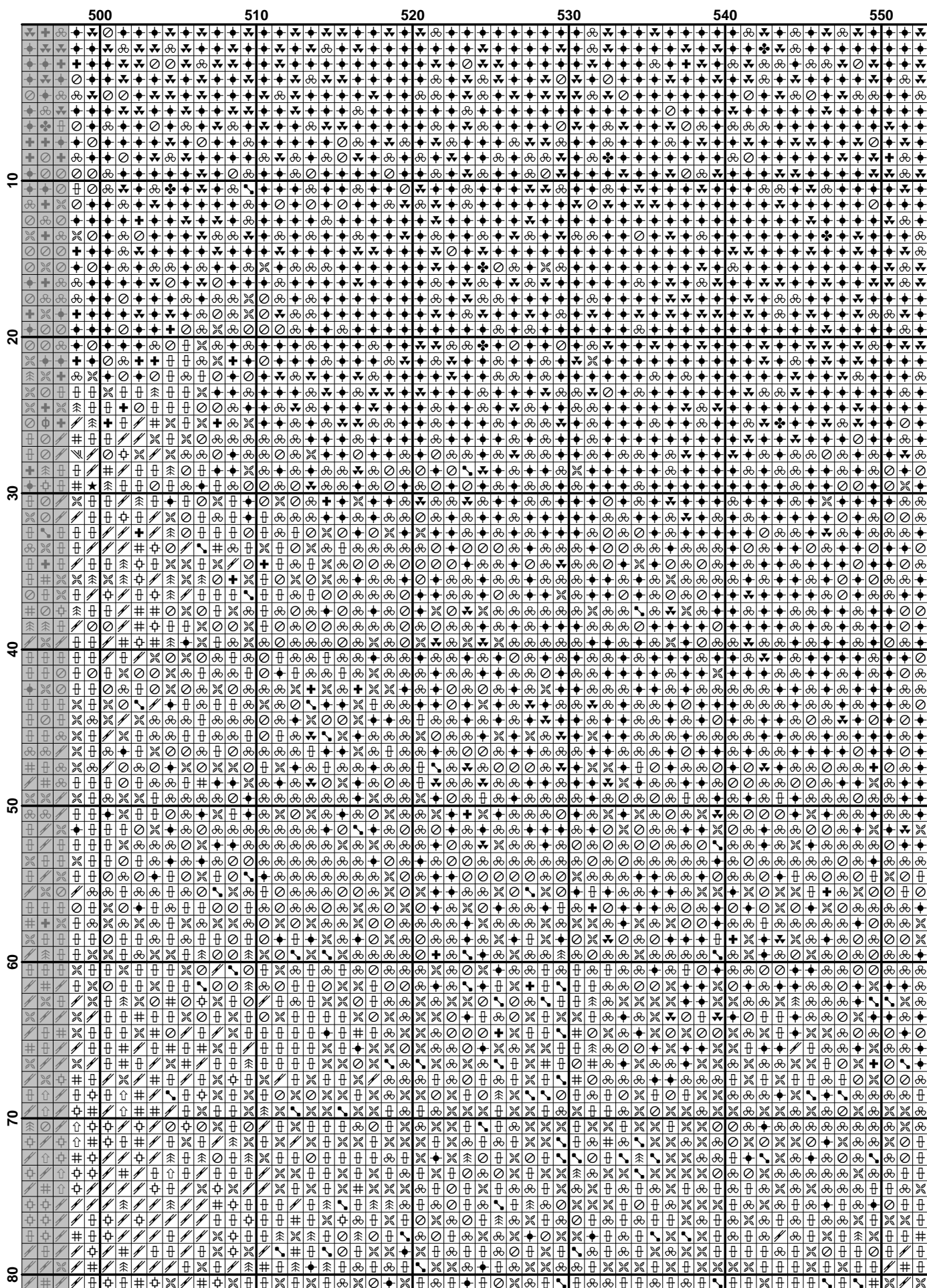
[illegible]

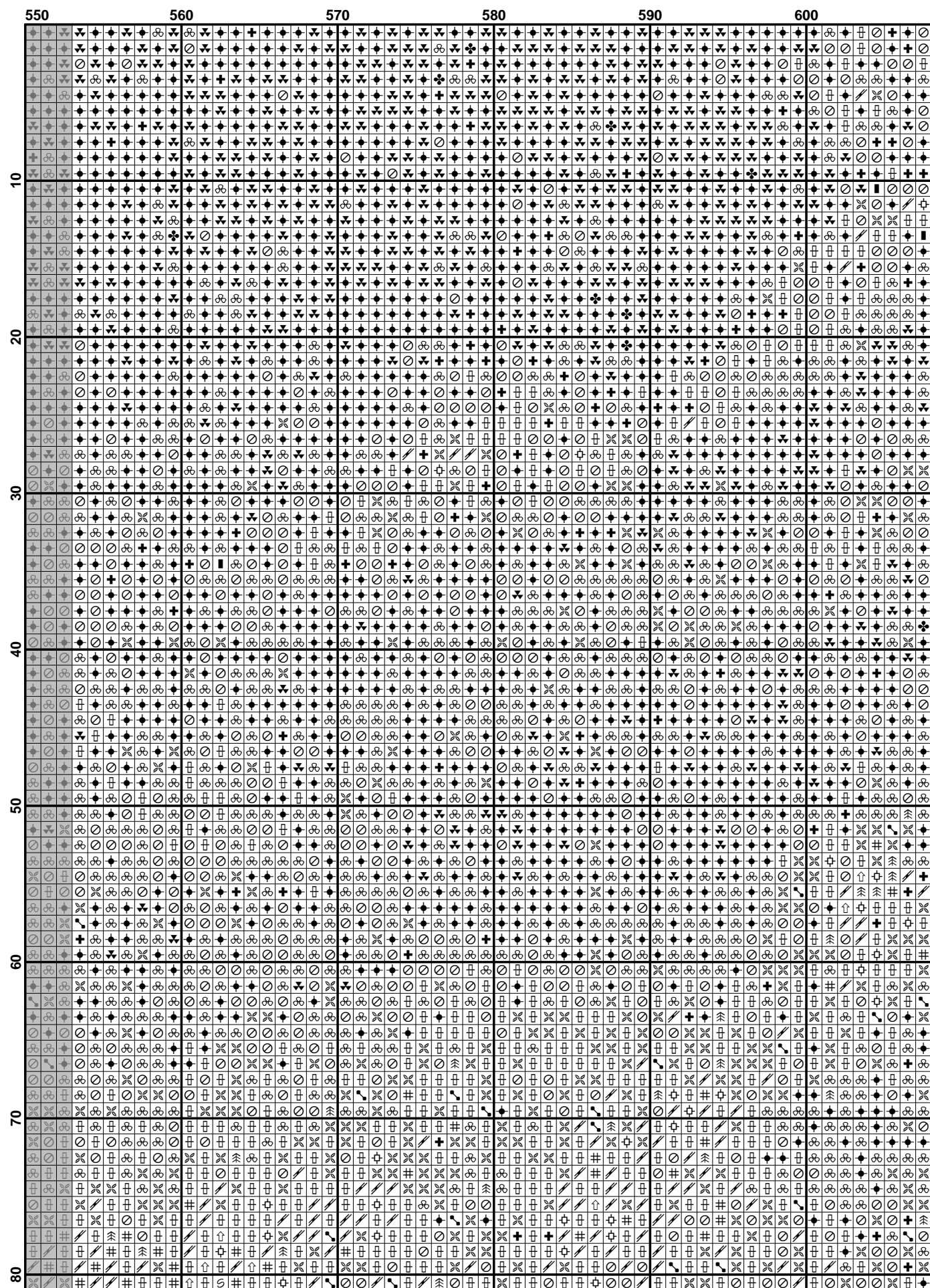
[illegible]

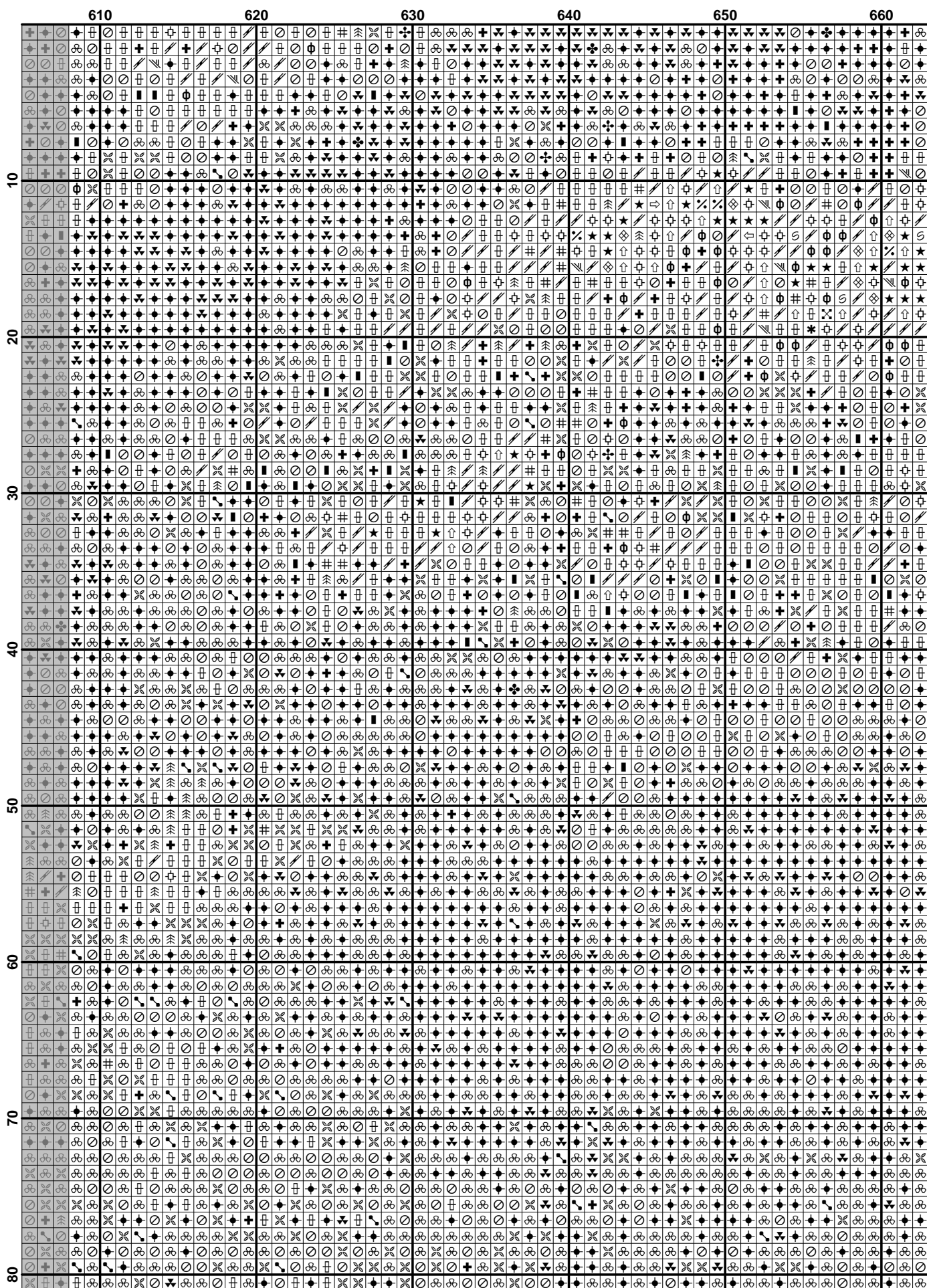
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30						
40						
50						
60						
70						
80						

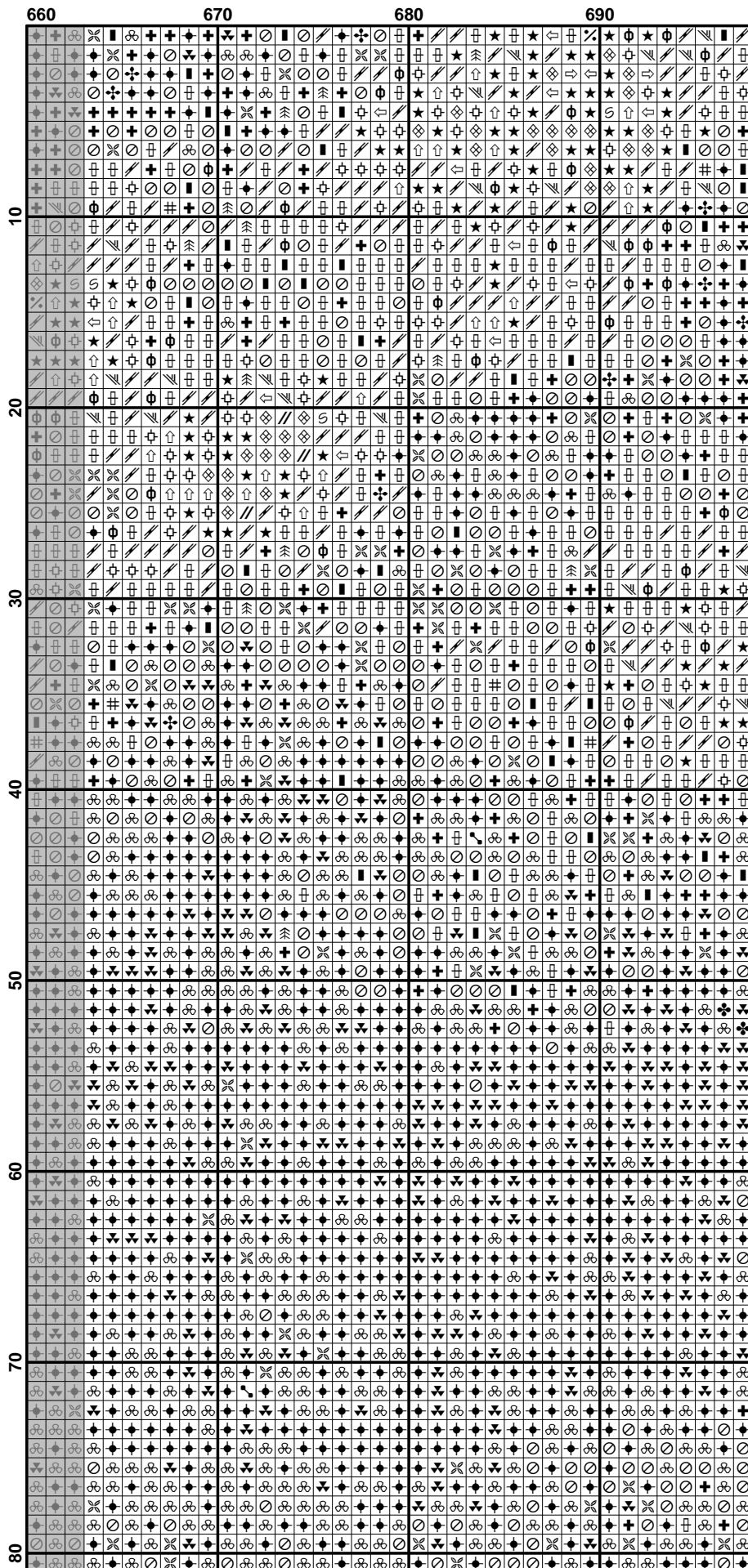
	390	400	410	420	430	440
10
20
30
40
50
60
70
80

	440	450	460	470	480	490
10
20
30
40
50
60
70
80









[illegible]

$$(28) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

[illegible]

$$(30) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

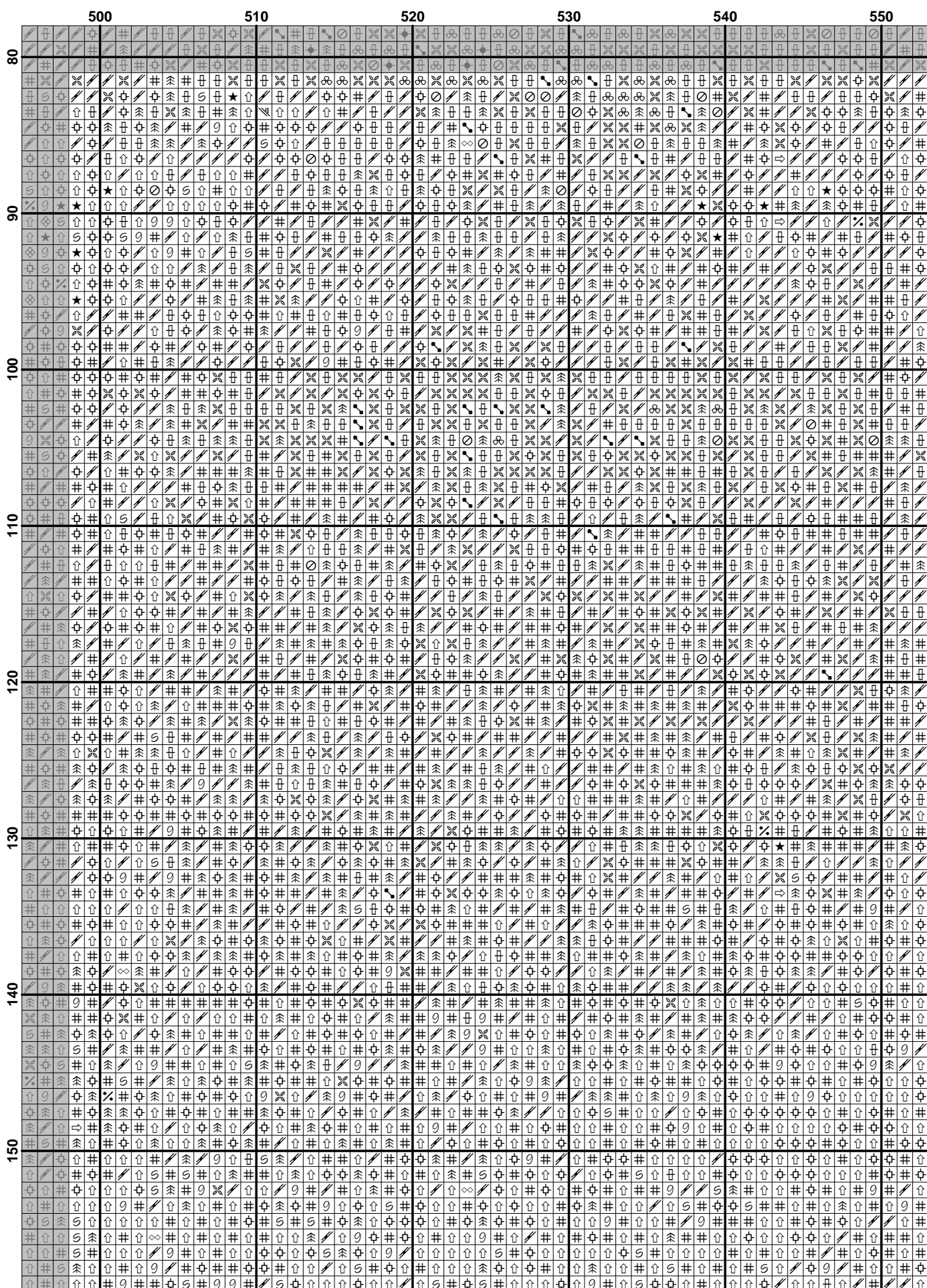
[illegible]

$$(32) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (33)$$

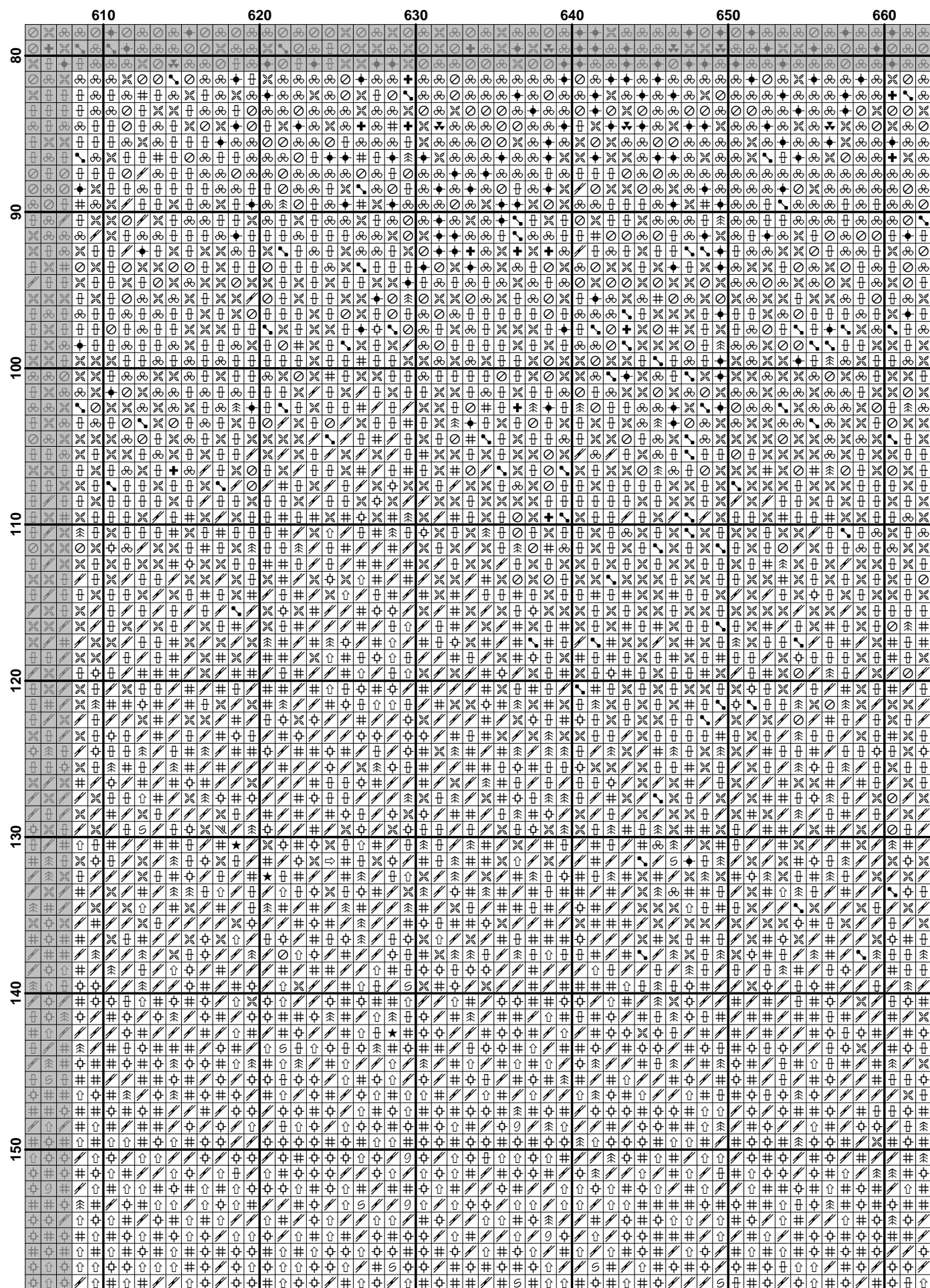
[illegible]

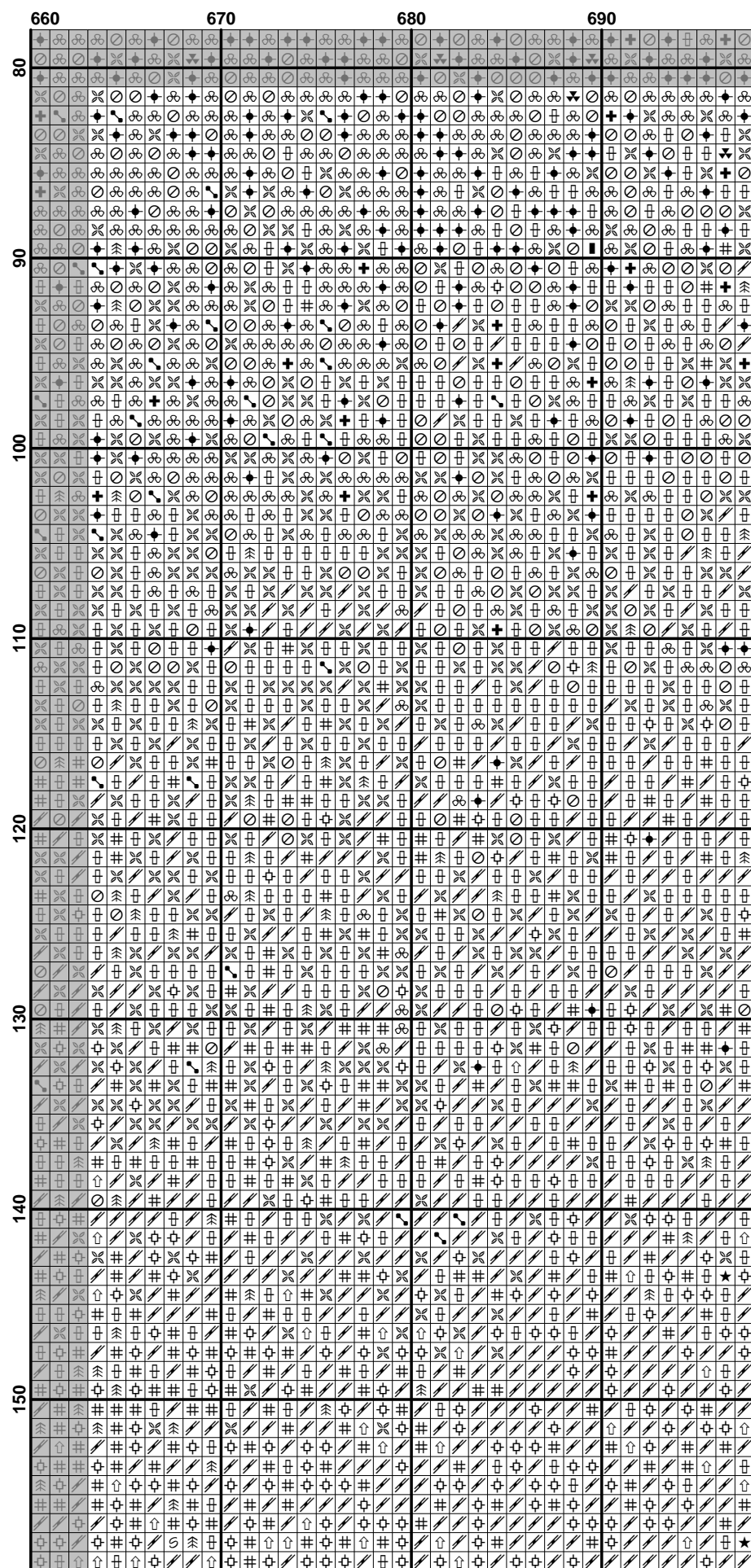
[illegible]

	440	450	460	470	480	490
80	9	9	9	9	9	9
81	9	9	9	9	9	9
82	9	9	9	9	9	9
83	9	9	9	9	9	9
84	9	9	9	9	9	9
85	9	9	9	9	9	9
86	9	9	9	9	9	9
87	9	9	9	9	9	9
88	9	9	9	9	9	9
89	9	9	9	9	9	9
90	9	9	9	9	9	9
91	9	9	9	9	9	9
92	9	9	9	9	9	9
93	9	9	9	9	9	9
94	9	9	9	9	9	9
95	9	9	9	9	9	9
96	9	9	9	9	9	9
97	9	9	9	9	9	9
98	9	9	9	9	9	9
99	9	9	9	9	9	9
100	9	9	9	9	9	9
101	9	9	9	9	9	9
102	9	9	9	9	9	9
103	9	9	9	9	9	9
104	9	9	9	9	9	9
105	9	9	9	9	9	9
106	9	9	9	9	9	9
107	9	9	9	9	9	9
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109	9	9	9	9	9	9
110	9	9	9	9	9	9
111	9	9	9	9	9	9
112	9	9	9	9	9	9
113	9	9	9	9	9	9
114	9	9	9	9	9	9
115	9	9	9	9	9	9
116	9	9	9	9	9	9
117	9	9	9	9	9	9
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121	9	9	9	9	9	9
122	9	9	9	9	9	9
123	9	9	9	9	9	9
124	9	9	9	9	9	9
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126	9	9	9	9	9	9
127	9	9	9	9	9	9
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129	9	9	9	9	9	9
130	9	9	9	9	9	9
131	9	9	9	9	9	9
132	9	9	9	9	9	9
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137	9	9	9	9	9	9
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140	9	9	9	9	9	9
141	9	9	9	9	9	9
142	9	9	9	9	9	9
143	9	9	9	9	9	9
144	9	9	9	9	9	9
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149	9	9	9	9	9	9
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152	9	9	9	9	9	9
153	9	9	9	9	9	9
154	9	9	9	9	9	9
155	9	9	9	9	9	9
156	9	9	9	9	9	9
157	9	9	9	9	9	9
158	9	9	9	9	9	9
159	9	9	9	9	9	9
160	9	9	9	9	9	9



	550	560	570	580	590	600
80						
90						
100						
110						
120						
130						
140						
150						





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

	60										70										80										90										100										110																																																											
160																																																																																																														
170																																																																																																														
180																																																																																																														
190																																																																																																														
200																																																																																																														
210																																																																																																														
220																																																																																																														
230																																																																																																														

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

[illegible]

	220	230	240	250	260	270
160	m ∞ ∞ 9 (∞ (∞ ∞ ∞ ∞)	(∞ (∞ (∞ 9 (9 ∞ (∞ (∞ ∞ ∞ ∞)	(∞ (∞ (∞ ∞ ∞ ∞)	m ∞ ∞ (∞ 9) ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞	(∞ 9 (∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞	(∞ (∞ (∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞
170	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	m (∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞	(∞ 9) ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞	(∞ 9) ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞	m ∞ ∞ (∞ 9) ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞	(∞ 9) ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞
180	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)
190	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)
200	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)
210	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)
220	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)
230	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)	9 ∞ 9 (∞ (∞ ∞ ∞ ∞)

[illegible]

$$(46) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

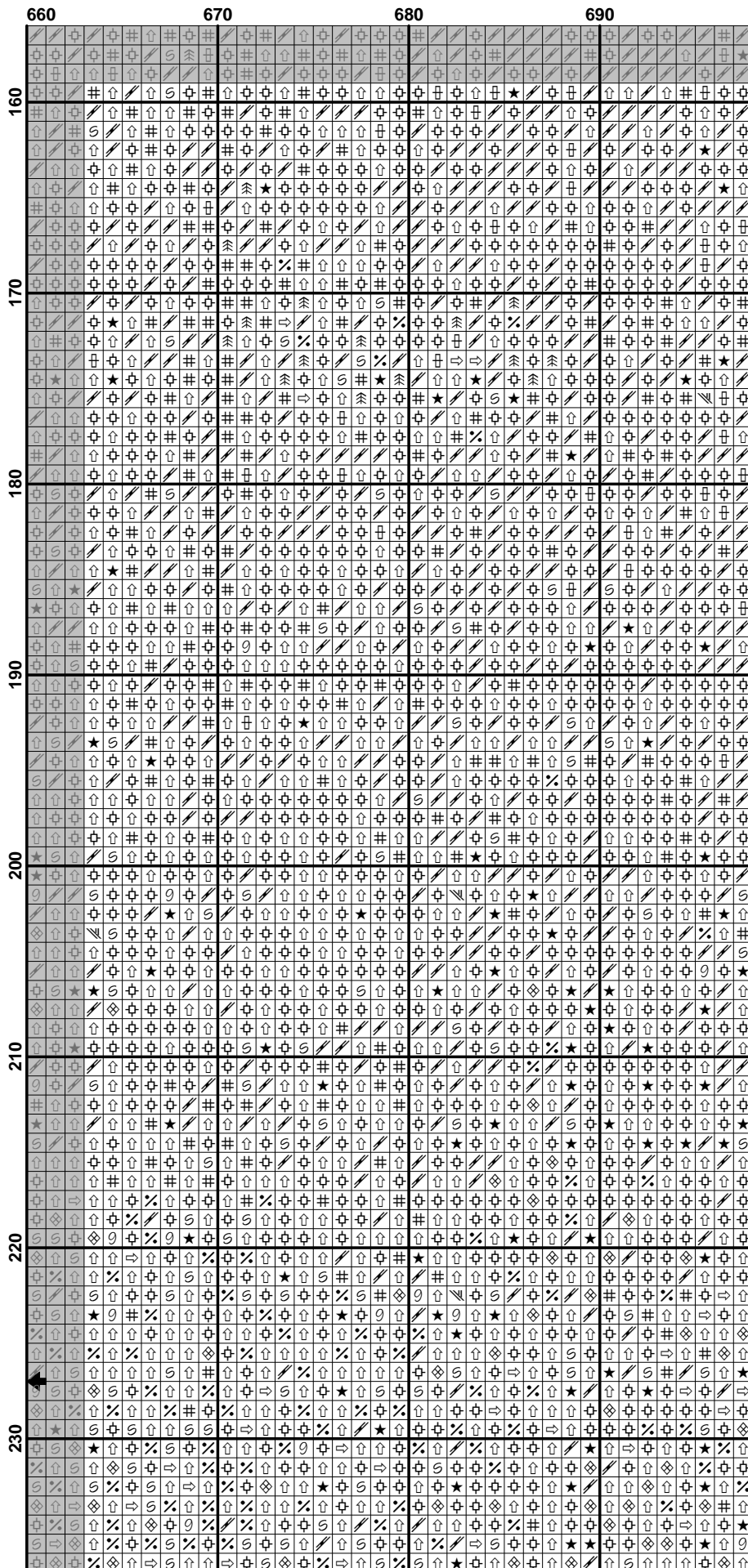
[illegible]

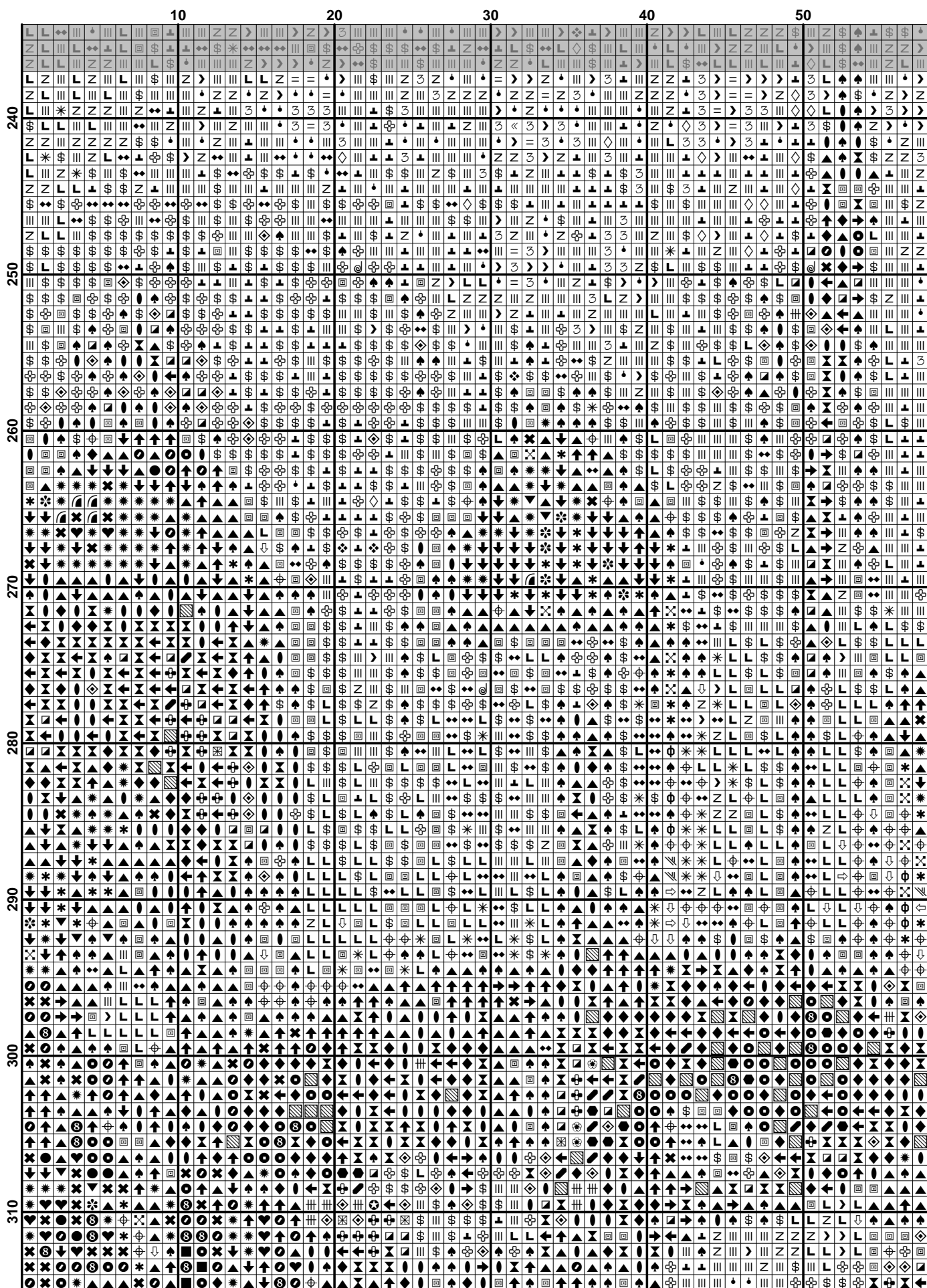
[illegible]

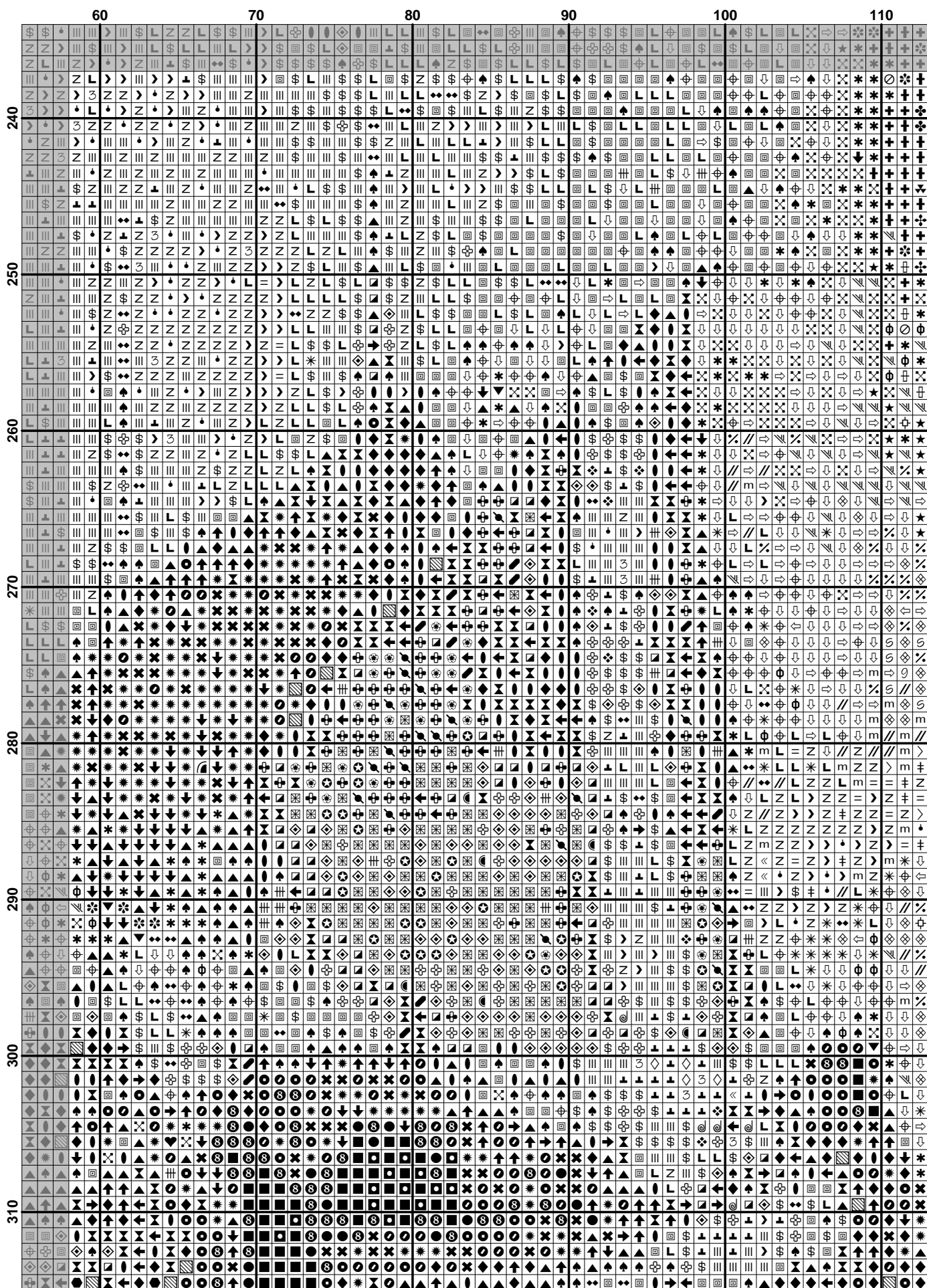
[illegible]

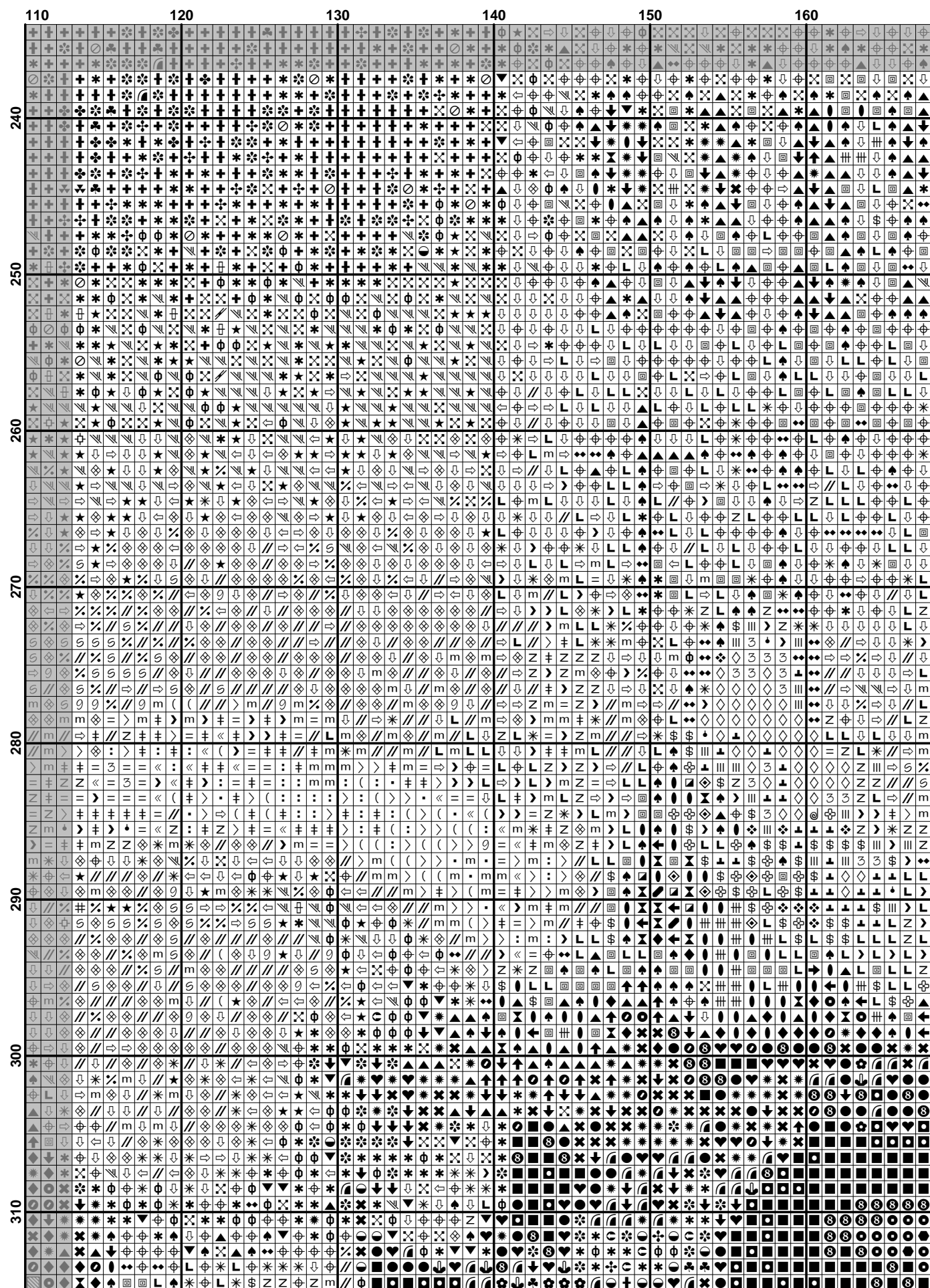
[illegible]

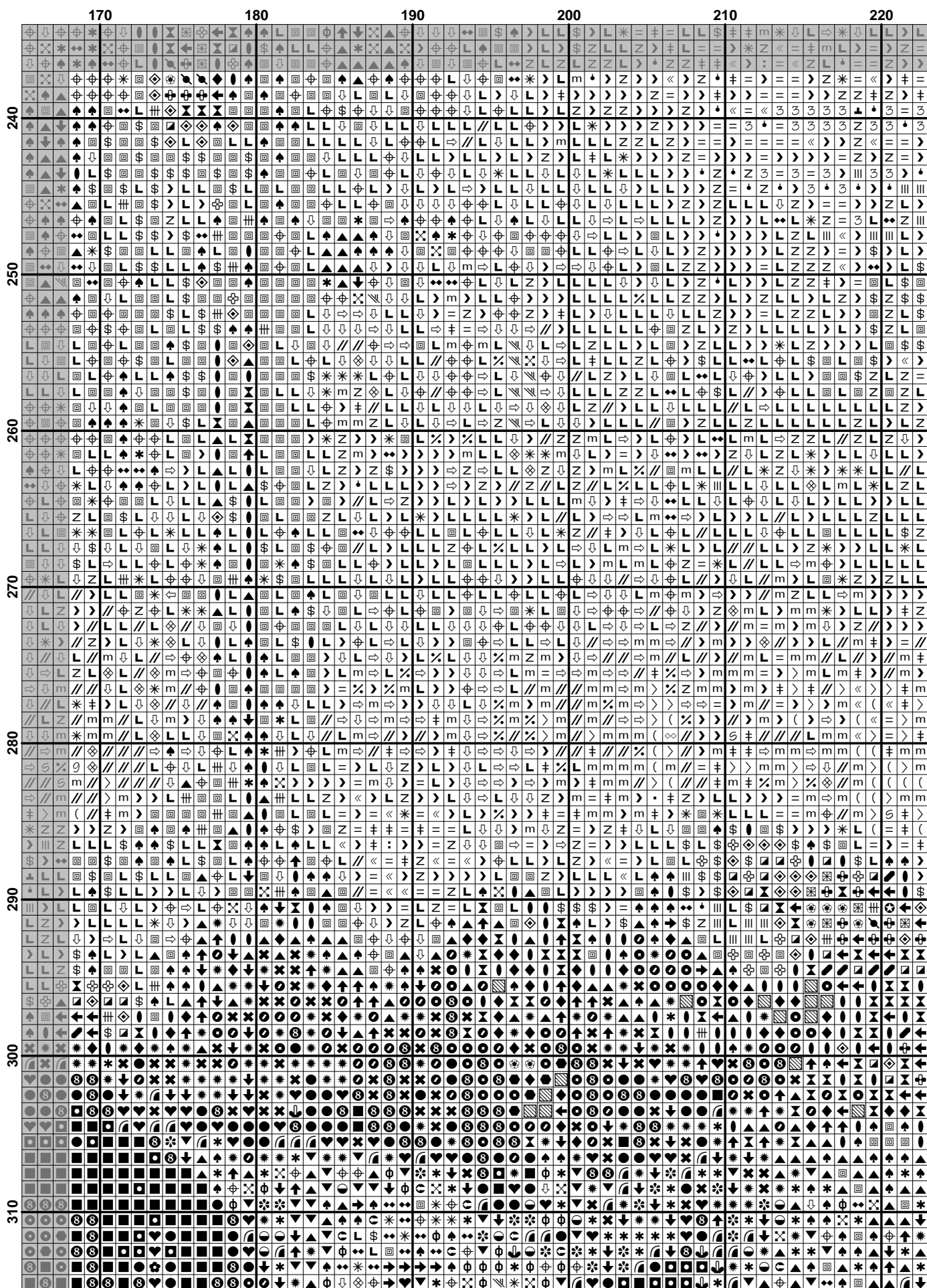
[illegible]











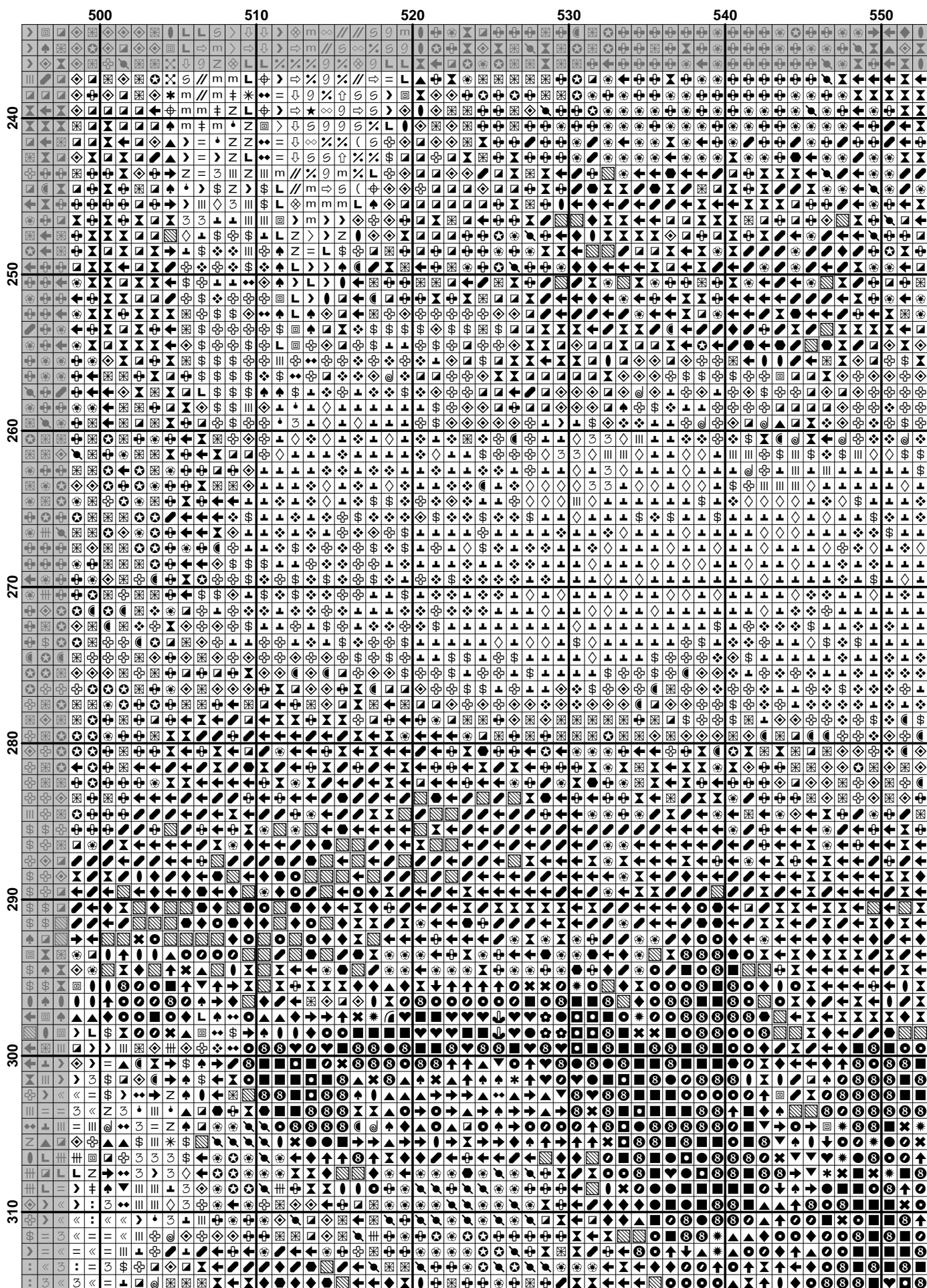
$$(57) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

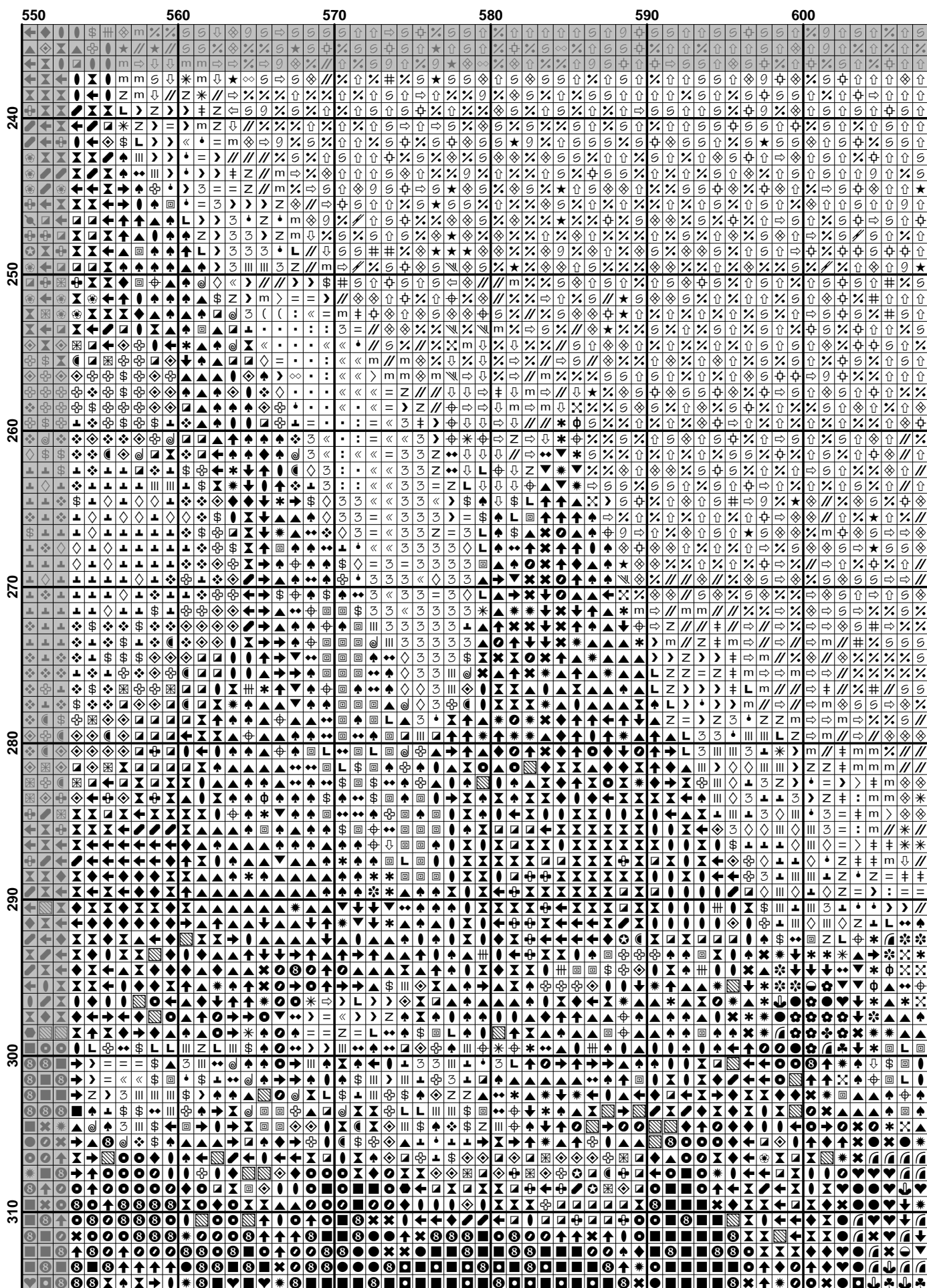
[illegible]

[illegible]

[illegible]

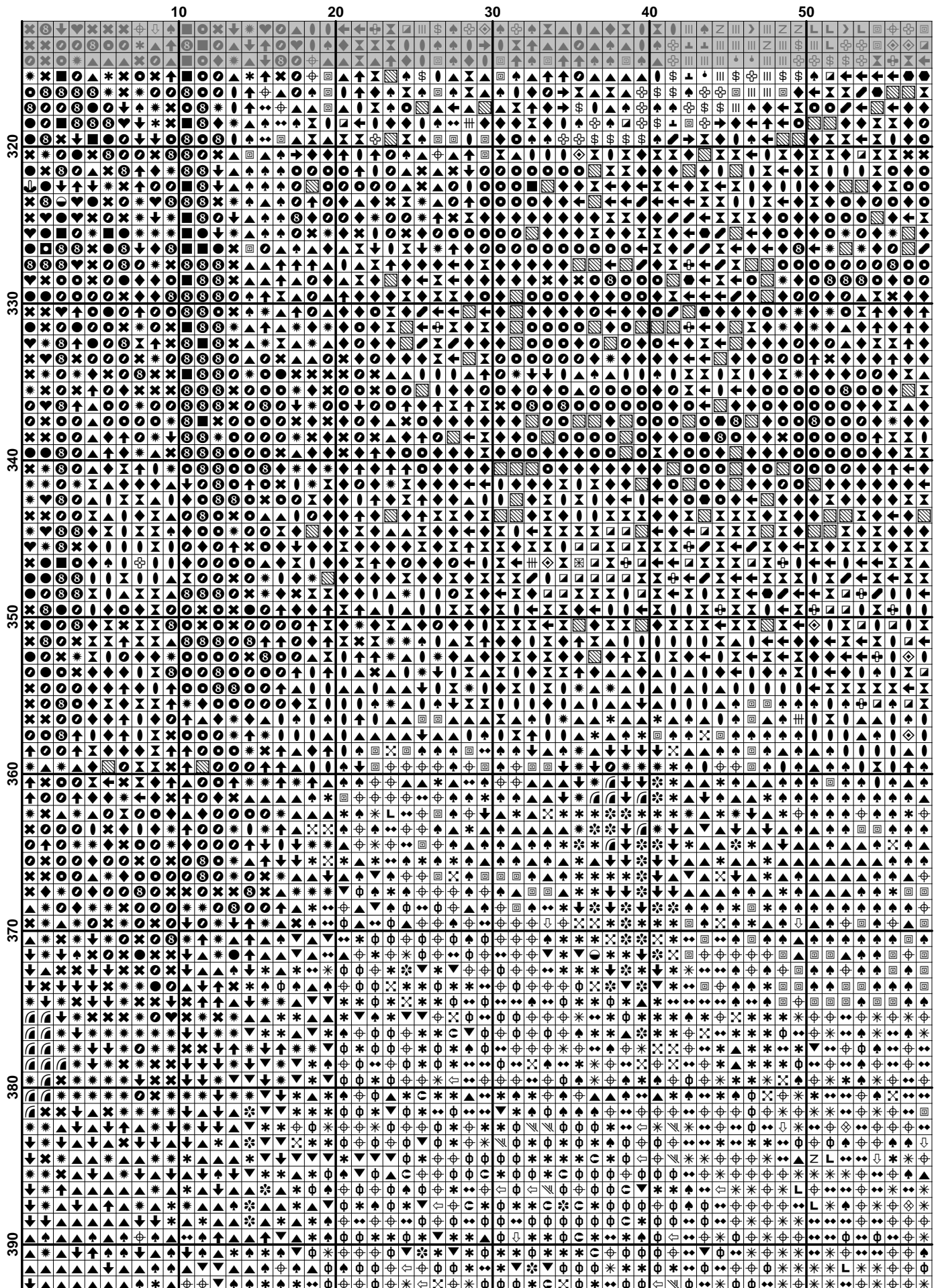
[illegible]



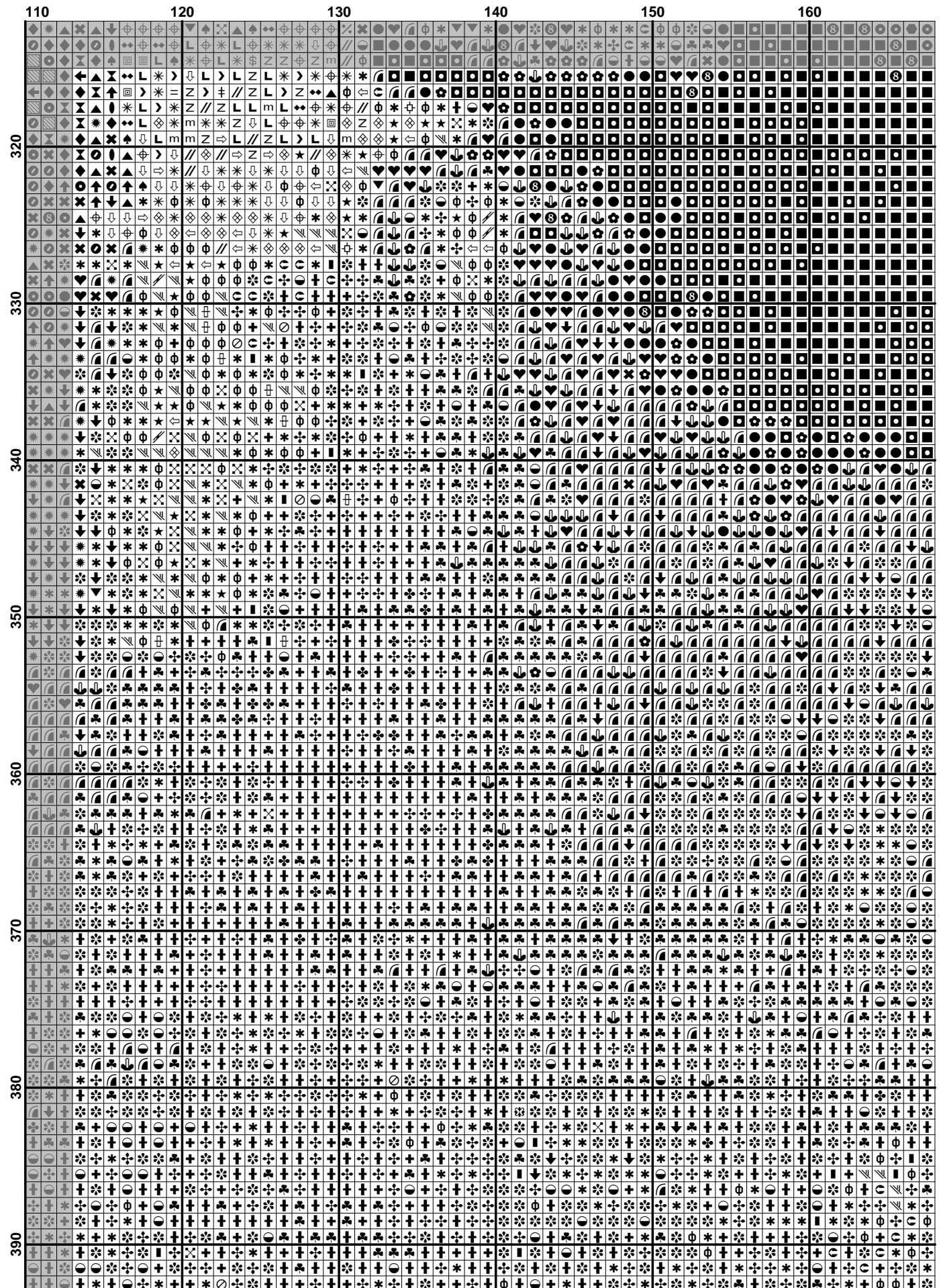


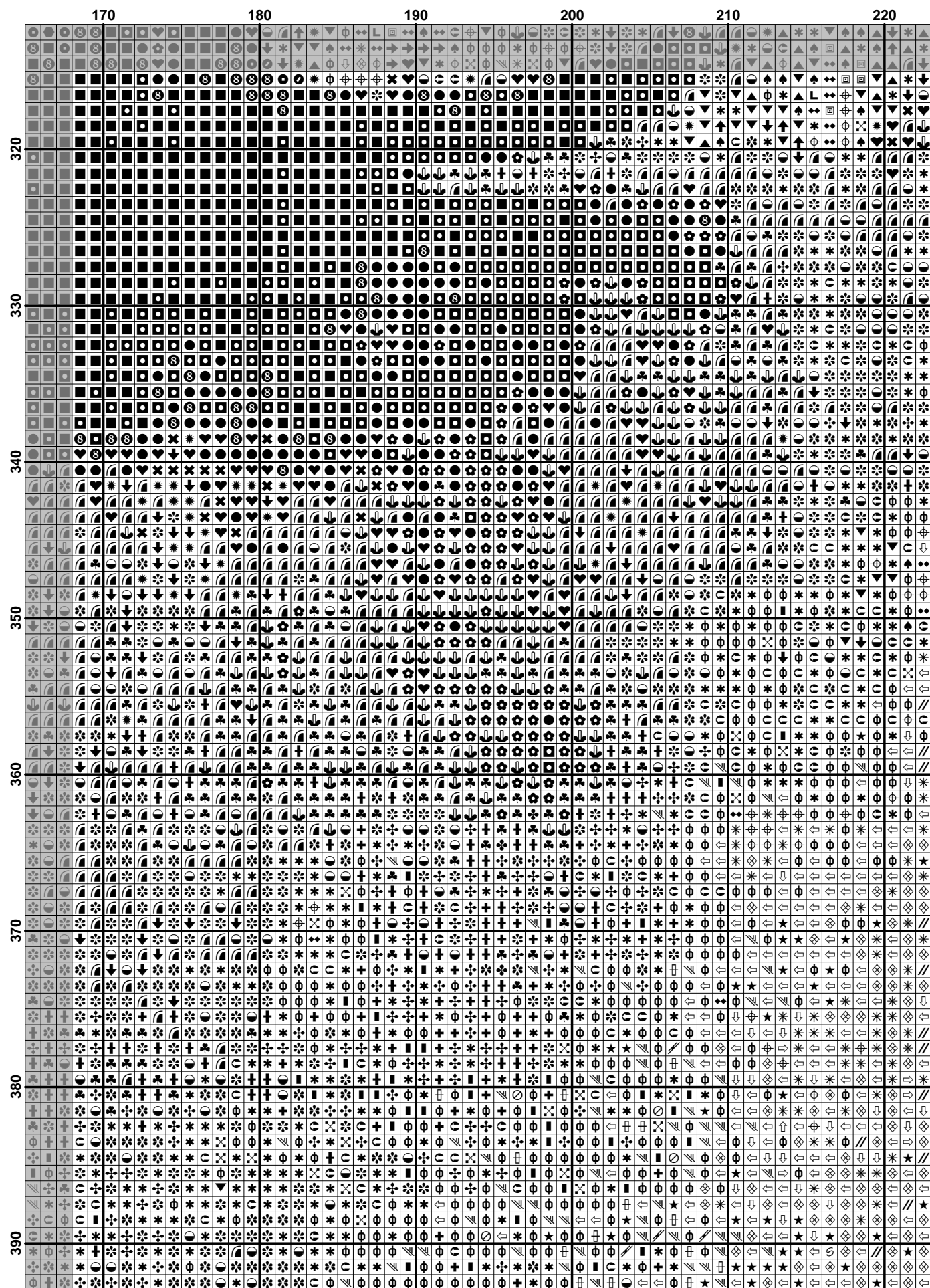
	610	620	630	640	650	660
240
250
260
270
280
290
300
310

(65)







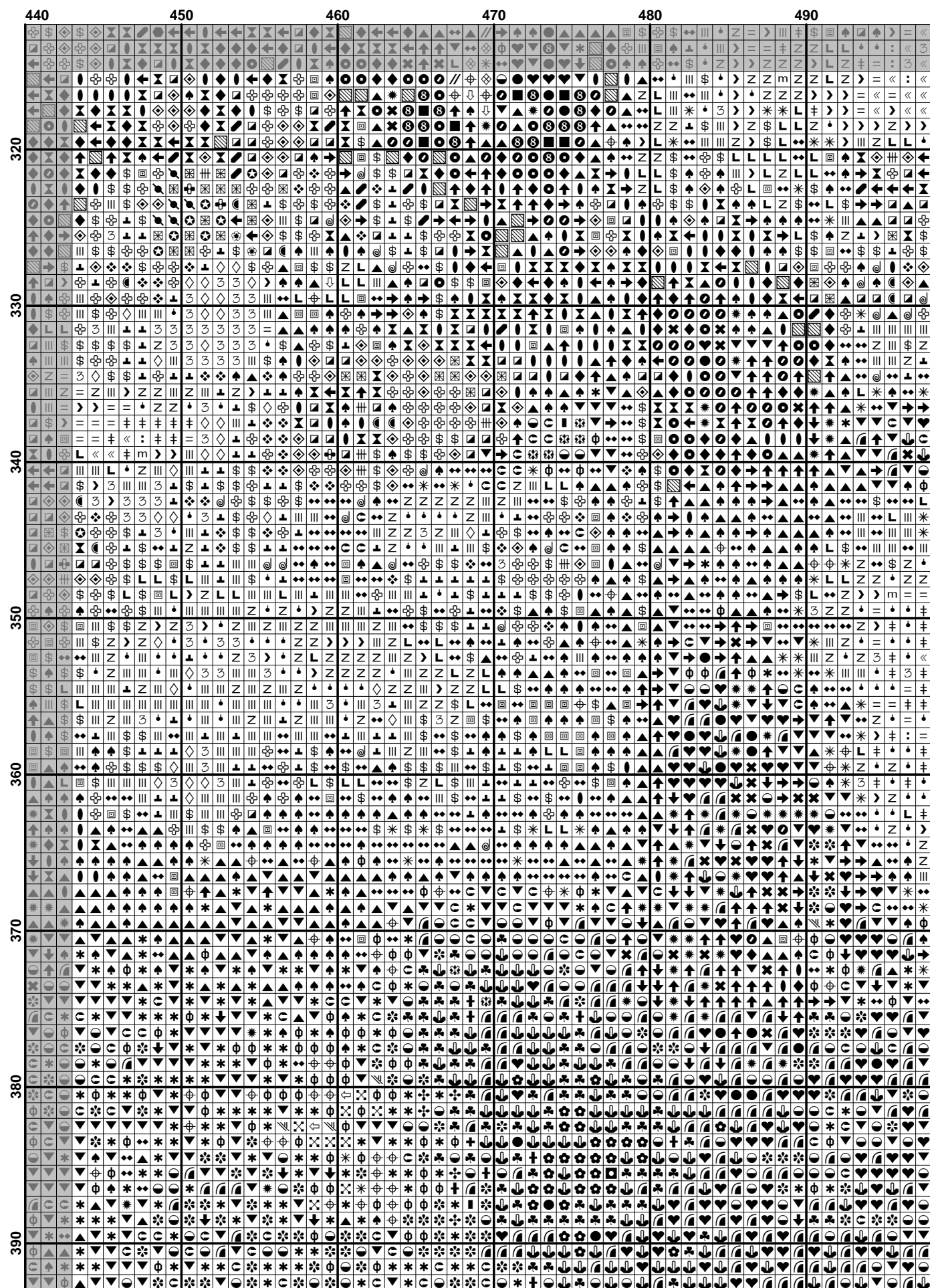


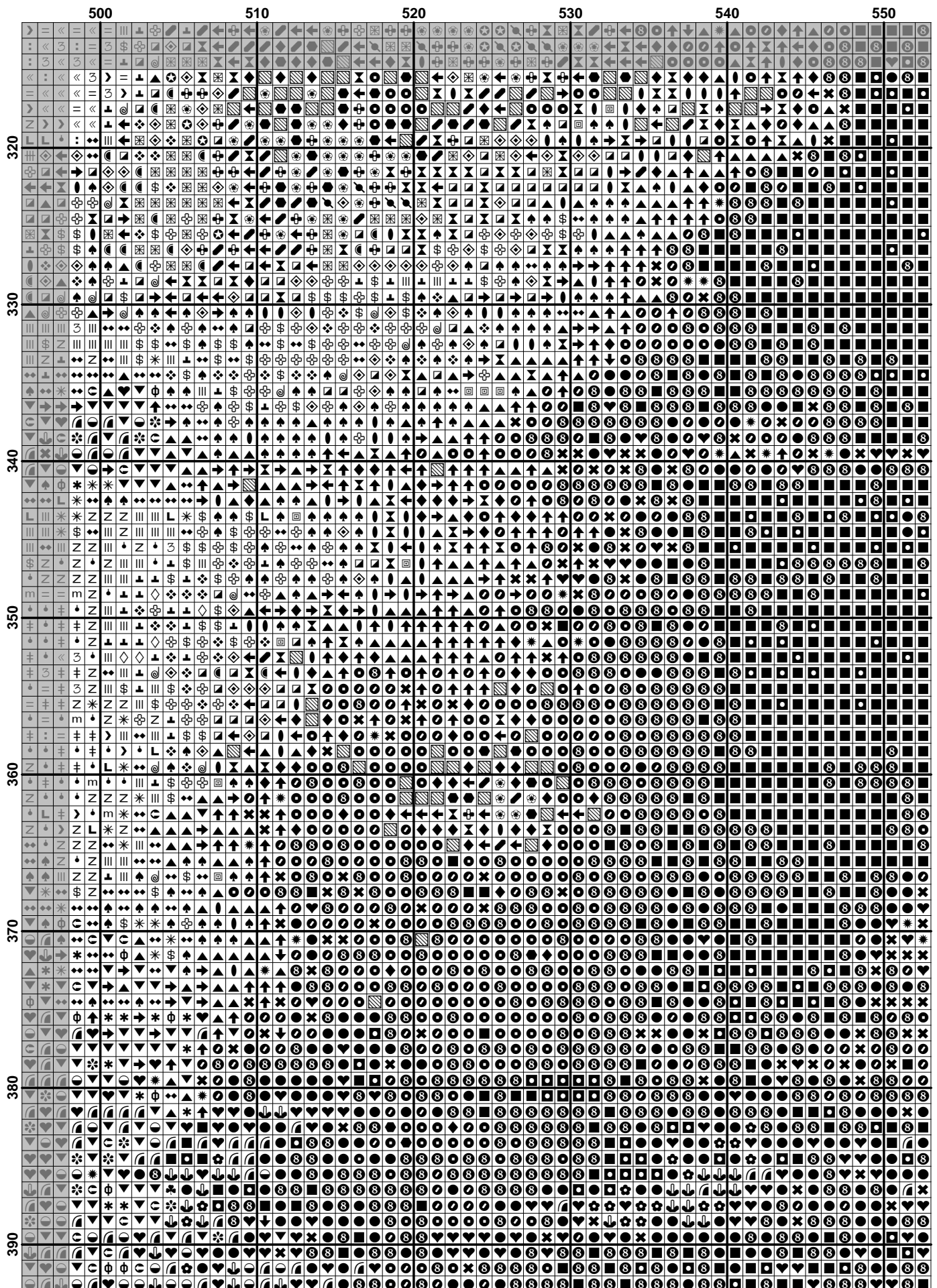
(71)

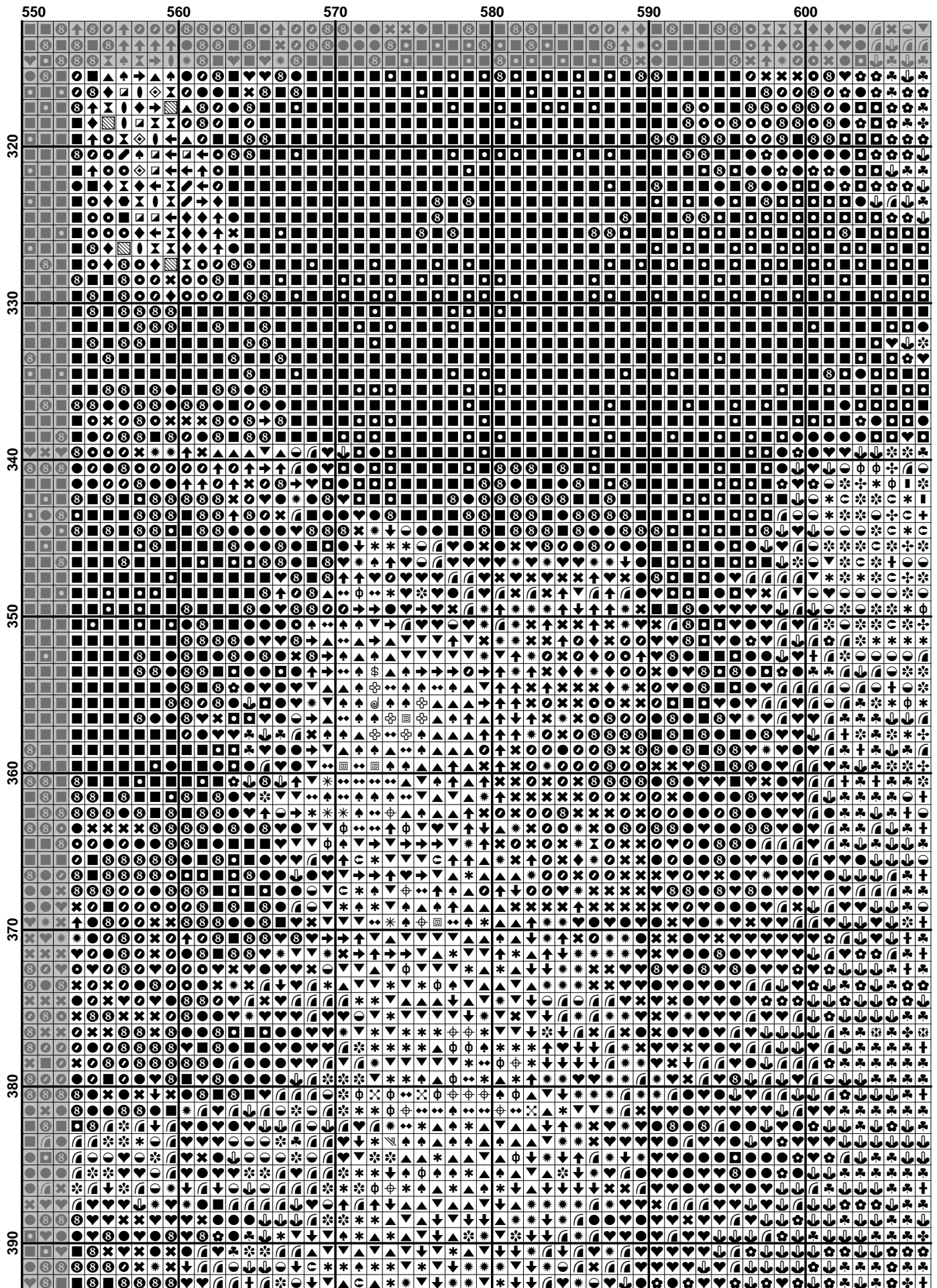
	280	290	300	310	320	330
320
330
340
350
360
370
380
390

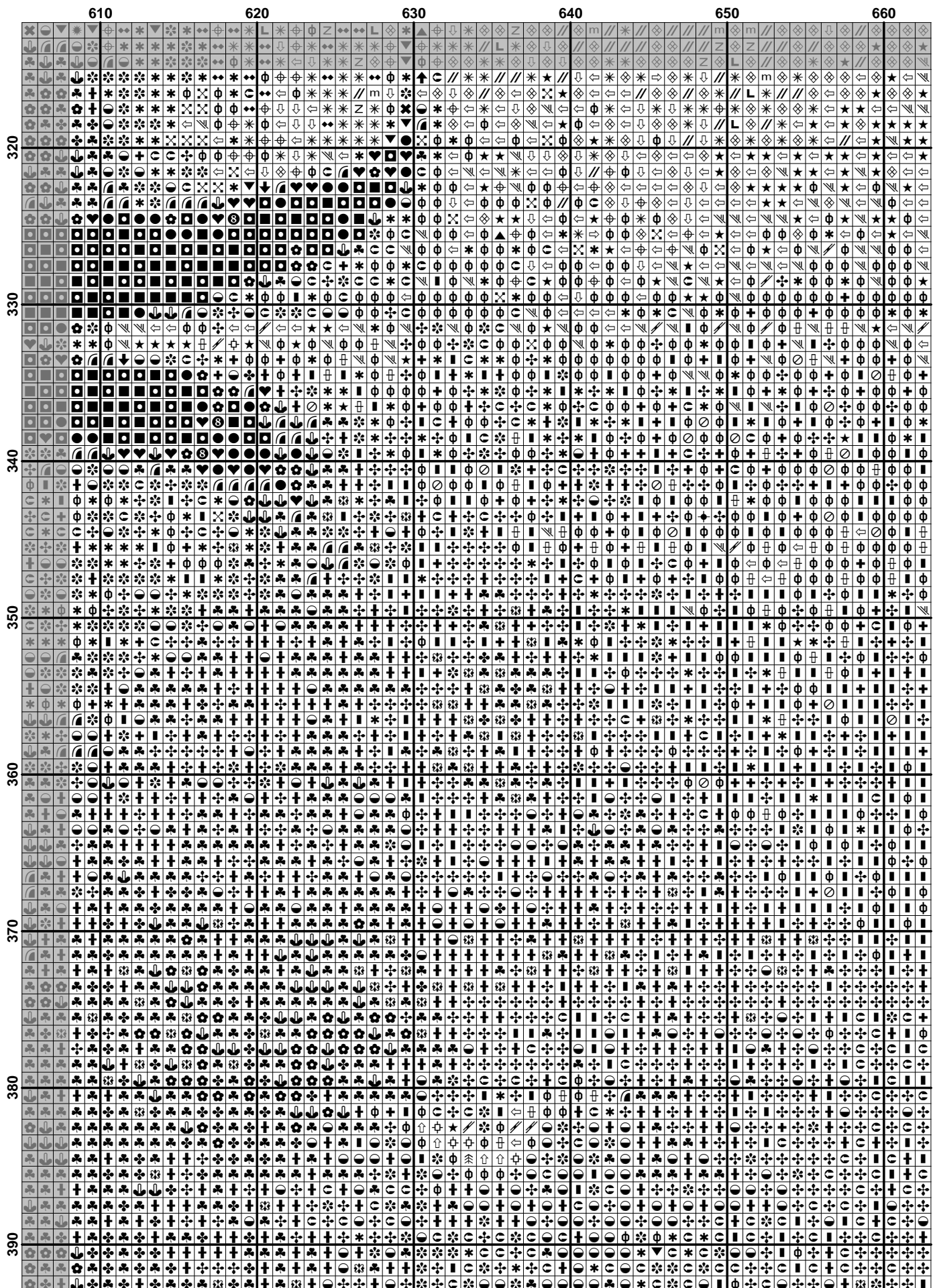
[illegible]

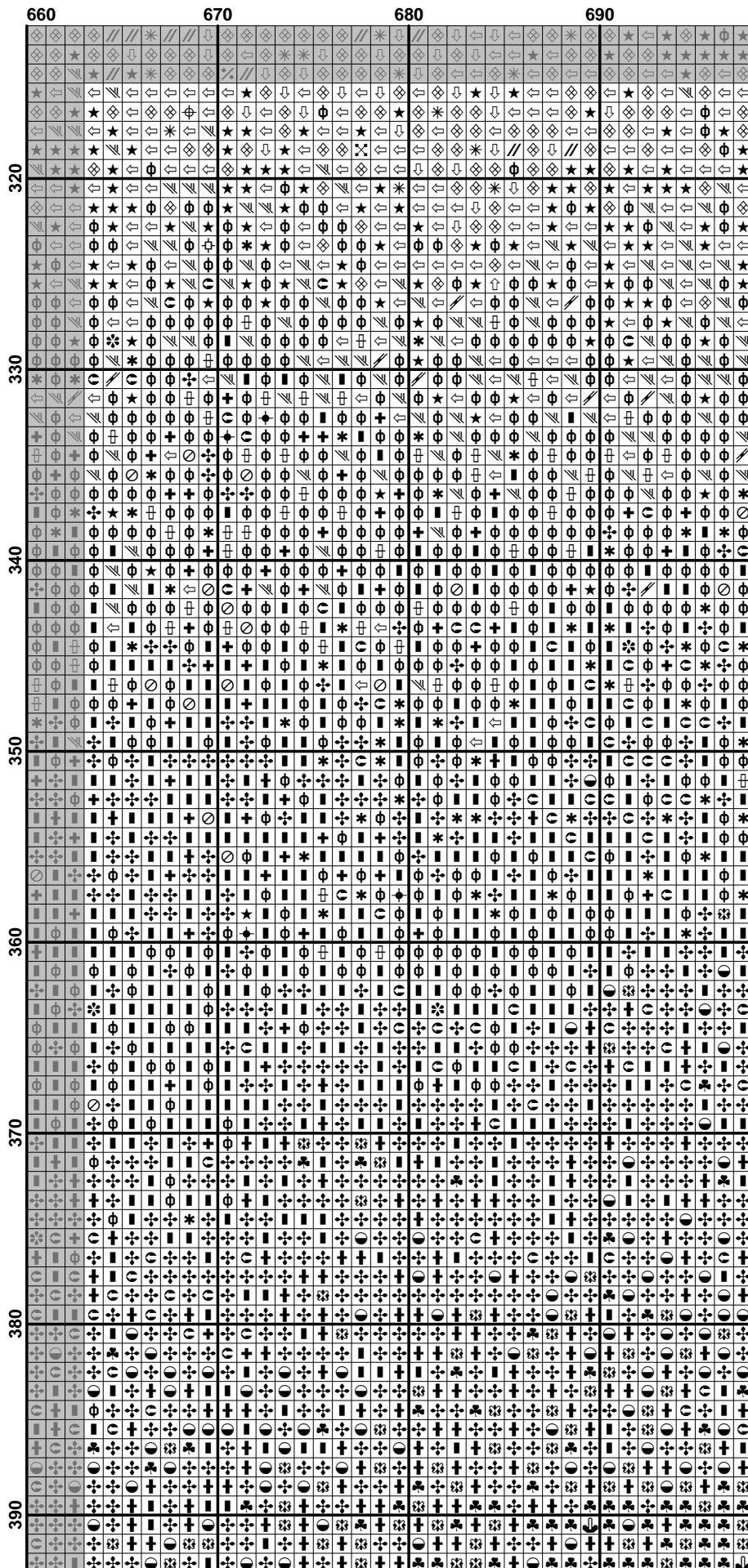
[illegible]

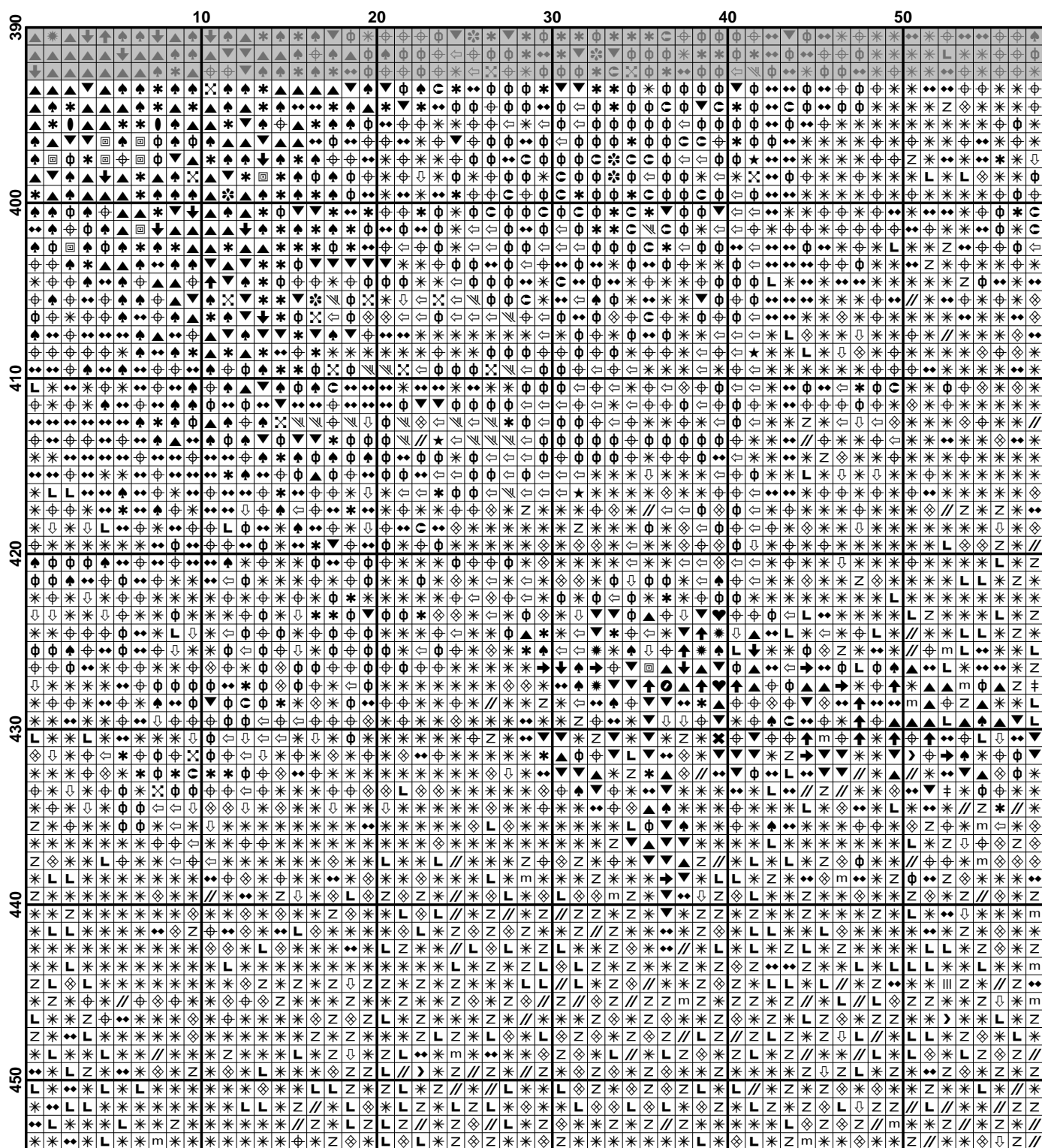


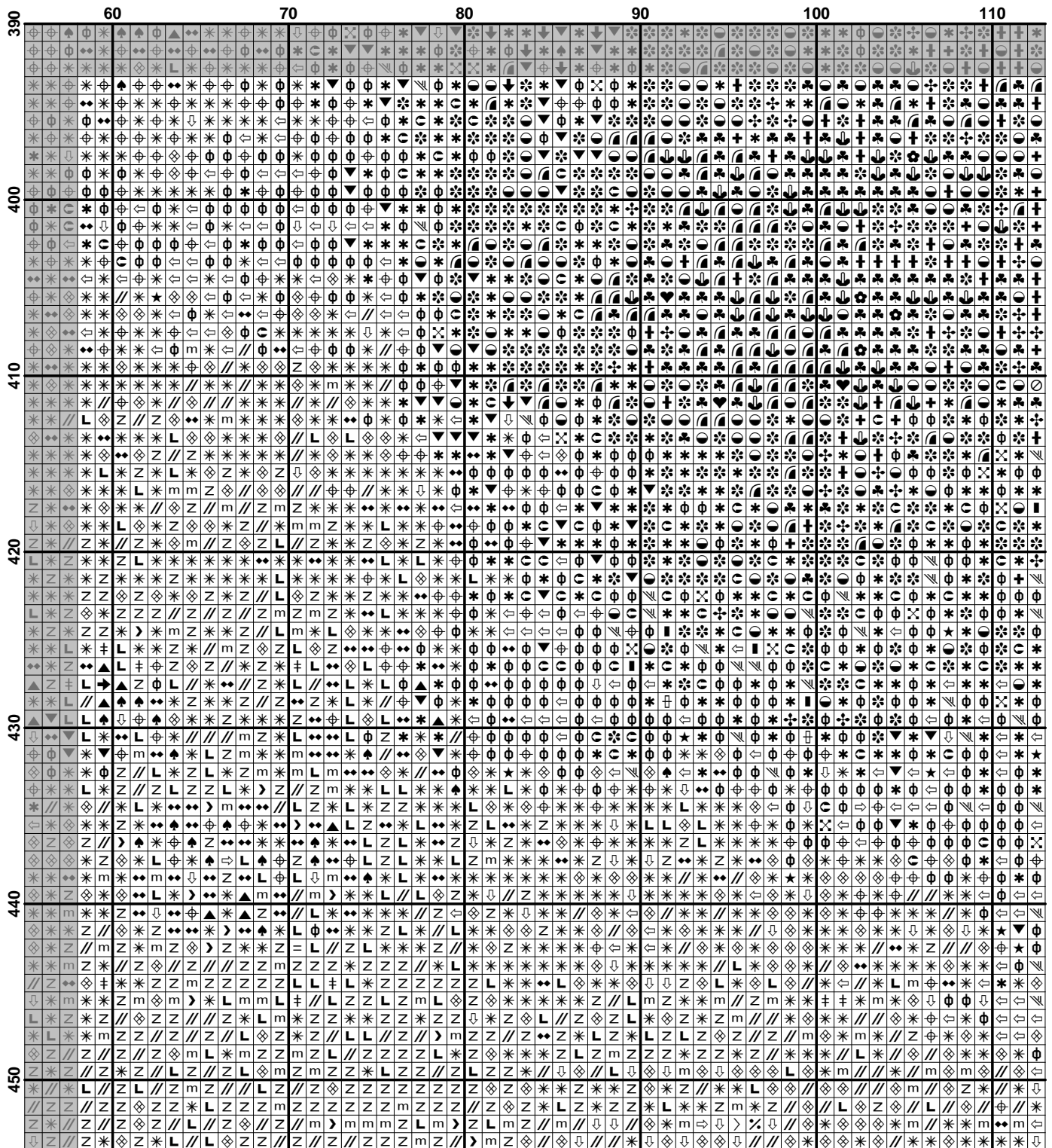




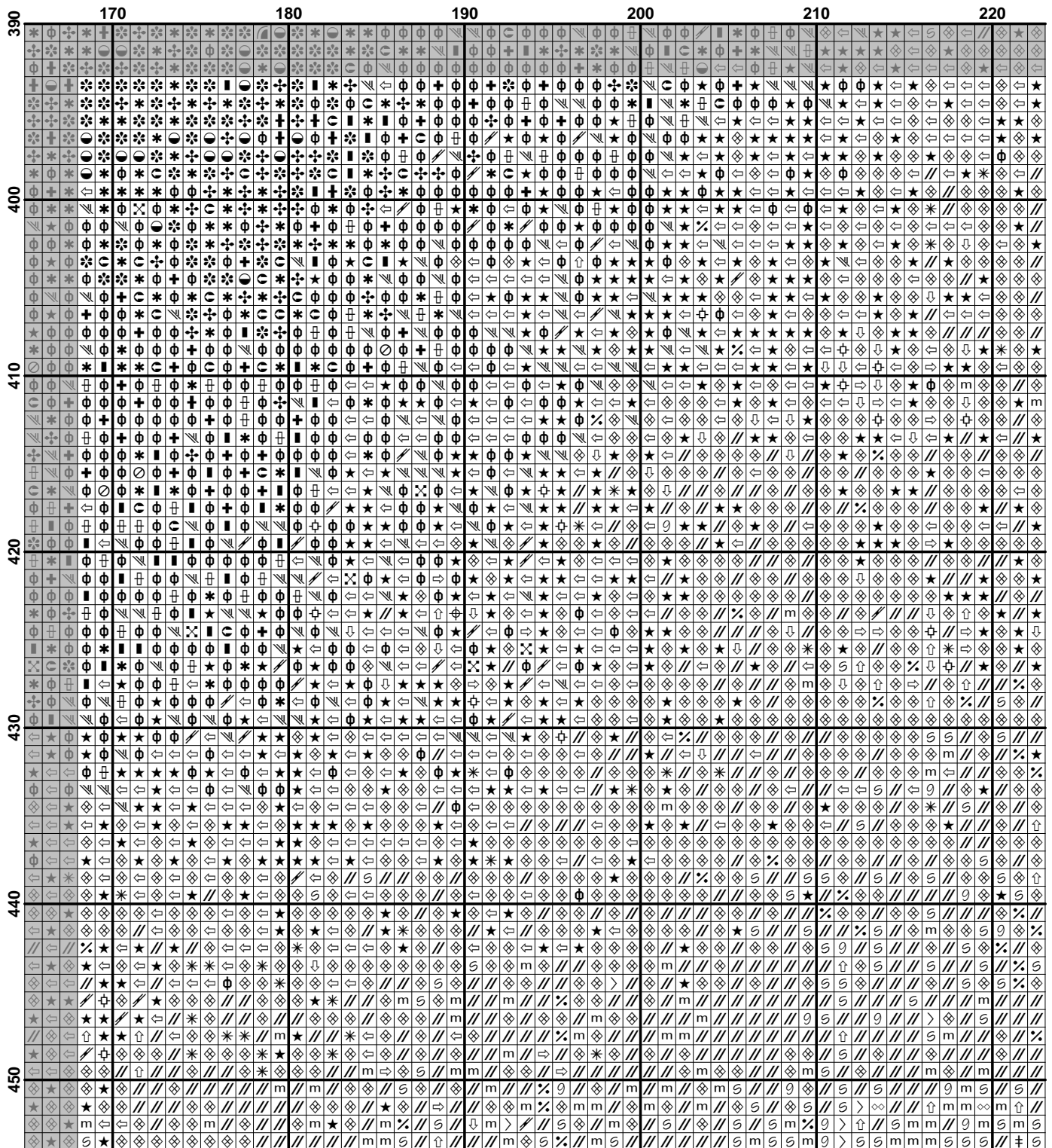












	220	230	240	250	260	270
390						
400						
410						
420						
430						
440						
450						

	280										290										300										310										320										330																																																	
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[illegible]

	390										400										410										420										430										440									
390																																																												
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