

965 Naissance de Venus



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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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Naissance de Venus

Stitch Count	
Horizontal:	650
Vertical:	917

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:	118	46.28	167	65.41	103	40.5	146	57.23	92	36	130	50.875
Including Margins:	134	53	183	72	119	47	162	64	108	43	146	57
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	165	64.79	233	91.57	137	53.99	194	76.31	68	26.99	97	38.15
Including Margins:	181	71	249	98	153	60	210	83	84	33	113	45
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	66	25.91	93	36.62	63	24.92	89	35.22	61	23.99	86	33.91
Including Margins:	82	32	109	43	79	31	105	42	77	30	102	40
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	59	23.14	83	32.7	55	21.59	77	30.52	51	20.24	73	28.61
Including Margins:	75	30	99	39	71	28	93	37	67	27	89	35

Solid Color Stitches. Use two strands of the specified color for these stitches.

Symbol	DMC	Name
⋄	225	Shell Pink-UL VY LT
■	310	Black
+	317	Pewter Gray
☾	370	Mustard-MD
♦♦	371	Mustard
4	372	Mustard-LT
▨	413	Pewter Gray-DK
▩	414	Steel Gray-DK
☾	420	Hazelnut Brown-DK
◀	422	Hazelnut Brown-LT
↓	433	Brown-MD
☼	437	Tan-LT
◊	453	Shell Gray-LT
●	500	Blue Green-VY DK
†	522	Fern Green
▲	535	Ash Gray-VY LT
▩	610	Drab Brown-DK
⌘	611	Drab Brown
⌘	612	Drab Brown-LT
⊕	640	Beige Gray-VY DK
⌘	642	Beige Gray-DK
⌘	645	Beaver Gray-VY DK
⌘	646	Beaver Gray-DK
⌘	647	Beaver Gray-MD
⊙	648	Beaver Gray-LT
⋄	738	Tan-VY LT
~	739	Tan-UL VY LT
♥	746	Off White
◊	754	Peach-LT
+	801	Coffee Brown-DK
6	819	Baby Pink-LT
⌘	829	Golden Olive-VY DK
←	839	Beige Brown-DK

↖	842	Beige Brown-VY LT
+	844	Beaver Brown-UL DK
⌘	869	Hazelnut Brown-VY DK
↓	898	Coffee Brown-VY DK
#	926	Gray Green-MD
⌘	927	Gray Green-LT
●	934	Black Avocado Green
☼	935	Avocado Green-DK
▷	945	Tawny
u	950	Desert Sand-LT
▨	3011	Khaki Green-DK
▨	3012	Khaki Green-MD
☼	3021	Brown Gray -VY DK
⌘	3022	Brown Gray -MD
m	3023	Brown Gray -LT
⌘	3024	Brown Gray -VY LT
●	3031	Mocha Brown-VY DK
⌘	3032	Mocha Brown-MD
☼	3045	Yellow Beige-DK
▲	3052	Green Gray-MD
▨	3363	Pine Green-MD
■	3371	Black Brown
	3743	Antique Violet-VY LT
△	3770	Tawny -VY LT
⌘	3781	Mocha Brown-DK
⌘	3782	Mocha Brown-LT
☼	3787	Brown Gray -DK
▨	3790	Beige Gray-UL DK
♥	3799	Pewter Gray -VY DK
☆	3823	Yellow -UL Pale
⊙	3828	Hazelnut Brown
n	3856	Mahogany-UL VY LT
⌘	3863	Mocha Beige-MD
⌘	3864	Mocha Beige-LT
○	3865	Winter White

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

Symbol	DMC1	Name1	DMC2	Name2
☐	610	Drab Brown-DK	611	Drab Brown
⧵	372	Mustard-LT	422	Hazelnut Brown-LT
*	645	Beaver Gray-VY DK	3363	Pine Green-MD
⌒	844	Beaver Brown-UL DK	3362	Pine Green-DK
=	645	Beaver Gray-VY DK	3787	Brown Gray -DK
⇒	778	Antique Mauve-VY LT	453	Shell Gray-LT
◊	819	Baby Pink-LT	3865	Winter White
◆	3799	Pewter Gray -VY DK	520	Fern Green-DK
⋈	738	Tan-VY LT	758	Terra Cotta-VY LT
9	712	Cream	762	Pearl Gray-VY LT
★	647	Beaver Gray-MD	3861	Cocoa-LT
↘	647	Beaver Gray-MD	451	Shell Gray-DK
∞	1	White 1	3865	Winter White
⦿	414	Steel Gray-DK	647	Beaver Gray-MD
	414	Steel Gray-DK	927	Gray Green-LT
⬤	318	Steel Gray-LT	928	Gray Green-VY LT
↑	648	Beaver Gray-LT	3727	Antique Mauve-LT
L	778	Antique Mauve-VY LT	822	Beige Gray-LT
⌒	950	Desert Sand-LT	453	Shell Gray-LT
9	640	Beige Gray-VY DK	451	Shell Gray-DK
⋈	3032	Mocha Brown-MD	451	Shell Gray-DK
⋈	3863	Mocha Beige-MD	3064	Desert Sand
2	3774	Desert Sand-VY LT	3743	Antique Violet-VY LT
3	3743	Antique Violet-VY LT	3866	Mocha Brown-UL VY LT
/	948	Peach-VY LT	3743	Antique Violet-VY LT
9	754	Peach-LT	3774	Desert Sand-VY LT
)	948	Peach-VY LT	225	Shell Pink-UL VY LT
⊗	640	Beige Gray-VY DK	839	Beige Brown-DK
➔	839	Beige Brown-DK	3021	Brown Gray -VY DK
a	225	Shell Pink-UL VY LT	3774	Desert Sand-VY LT
//	415	Pearl Gray	3743	Antique Violet-VY LT
√	3743	Antique Violet-VY LT	712	Cream
(948	Peach-VY LT	3770	Tawny -VY LT
:	224	Shell Pink-VY LT	3770	Tawny -VY LT
=	3727	Antique Mauve-LT	415	Pearl Gray
≡	645	Beaver Gray-VY DK	535	Ash Gray -VY LT
↘	927	Gray Green-LT	647	Beaver Gray-MD
●	317	Pewter Gray	3768	Gray Green-DK
□	926	Gray Green-MD	647	Beaver Gray-MD
⊗	646	Beaver Gray-DK	926	Gray Green-MD
△	414	Steel Gray-DK	451	Shell Gray-DK
✿	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
田	926	Gray Green-MD	317	Pewter Gray
✓	3743	Antique Violet-VY LT	225	Shell Pink-UL VY LT
√	453	Shell Gray-LT	225	Shell Pink-UL VY LT
≡	415	Pearl Gray	648	Beaver Gray-LT
—	3743	Antique Violet-VY LT	648	Beaver Gray-LT
○	948	Peach-VY LT	754	Peach-LT
⋈	407	Desert Sand-DK	3782	Mocha Brown-LT
⬅	819	Baby Pink-LT	225	Shell Pink-UL VY LT
↓	524	Fern Green-VY LT	3864	Mocha Beige-LT
«	524	Fern Green-VY LT	842	Beige Brown-VY LT
▲	842	Beige Brown-VY LT	3864	Mocha Beige-LT

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Z	3053	Green Gray	612	Drab Brown-LT
••	524	Fern Green-VY LT	452	Shell Gray-MD
☒	3782	Mocha Brown-LT	372	Mustard-LT
⌌	950	Desert Sand-LT	3864	Mocha Beige-LT
⌘	372	Mustard-LT	612	Drab Brown-LT
☼	452	Shell Gray-MD	648	Beaver Gray-LT
☿	3861	Cocoa-LT	371	Mustard
::	225	Shell Pink-UL VY LT	3865	Winter White
7	613	Drab Brown-VY LT	950	Desert Sand-LT
¼	613	Drab Brown-VY LT	3864	Mocha Beige-LT
♂	842	Beige Brown-VY LT	738	Tan-VY LT
∇	613	Drab Brown-VY LT	422	Hazelnut Brown-LT
⊖	3864	Mocha Beige-LT	422	Hazelnut Brown-LT
<	3774	Desert Sand-VY LT	950	Desert Sand-LT
⊙	422	Hazelnut Brown-LT	738	Tan-VY LT
↖	407	Desert Sand-DK	3013	Khaki Green-LT
⚙	372	Mustard-LT	3045	Yellow Beige-DK
↷	739	Tan-UL VY LT	945	Tawny
c	3770	Tawny-VY LT	746	Off White
⊖	422	Hazelnut Brown-LT	3045	Yellow Beige-DK
5	745	Yellow-LT Pale	754	Peach-LT
>	353	Peach	951	Tawny-LT
¿	353	Peach	3823	Yellow-UL Pale
⊕	407	Desert Sand-DK	613	Drab Brown-VY LT
**	3046	Yellow Beige-MD	3856	Mahogany-UL VY LT
•	948	Peach-VY LT	353	Peach
↑	648	Beaver Gray-LT	453	Shell Gray-LT
••	407	Desert Sand-DK	422	Hazelnut Brown-LT
⌘	3863	Mocha Beige-MD	371	Mustard
☒	372	Mustard-LT	3861	Cocoa-LT
☑	839	Beige Brown-DK	830	Golden Olive-DK
↶	838	Beige Brown-VY DK	3781	Mocha Brown-DK
♣	433	Brown-MD	869	Hazelnut Brown-VY DK
▼	370	Mustard-MD	420	Hazelnut Brown-DK
e	434	Brown-LT	611	Drab Brown
►	869	Hazelnut Brown-VY DK	3862	Mocha Beige-DK
⊞	632	Desert Sand-UL VY DK	611	Drab Brown
+	3864	Mocha Beige-LT	738	Tan-VY LT
1	353	Peach	754	Peach-LT
⌌	945	Tawny	950	Desert Sand-LT
□	524	Fern Green-VY LT	318	Steel Gray-LT
♂	370	Mustard-MD	632	Desert Sand-UL VY DK
⊕	3064	Desert Sand	612	Drab Brown-LT
III	370	Mustard-MD	611	Drab Brown
♠	611	Drab Brown	3862	Mocha Beige-DK
+	839	Beige Brown-DK	610	Drab Brown-DK
☼	830	Golden Olive-DK	610	Drab Brown-DK
⊙	935	Avocado Green-DK	938	Coffee Brown-UL DK
⌘	3051	Green Gray-DK	3781	Mocha Brown-DK
▲	3828	Hazelnut Brown	420	Hazelnut Brown-DK
⌌	3782	Mocha Brown-LT	3023	Brown Gray-LT
☼	370	Mustard-MD	869	Hazelnut Brown-VY DK
^	948	Peach-VY LT	3823	Yellow-UL Pale
⊙	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
•	830	Golden Olive-DK	3781	Mocha Brown-DK
❖	3023	Brown Gray-LT	3861	Cocoa-LT
∩	612	Drab Brown-LT	371	Mustard
•	317	Pewter Gray	646	Beaver Gray-DK
■	610	Drab Brown-DK	3781	Mocha Brown-DK

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✕	3051	Green Gray-DK	838	Beige Brown-VY DK
▼	3862	Mocha Beige-DK	433	Brown-MD
◇	353	Peach	3770	Tawny -VY LT
×	3064	Desert Sand	371	Mustard
Φ	3862	Mocha Beige-DK	610	Drab Brown-DK
н	3864	Mocha Beige-LT	372	Mustard-LT
≡	371	Mustard	3052	Green Gray-MD
▲	3862	Mocha Beige-DK	3781	Mocha Brown-DK
◇	371	Mustard	640	Beige Gray-VY DK
⇐	950	Desert Sand-LT	738	Tan-VY LT
↑	520	Fern Green-DK	3021	Brown Gray -VY DK
ι	3053	Green Gray	3032	Mocha Brown-MD
○	640	Beige Gray-VY DK	3790	Beige Gray-UL DK
☾	3363	Pine Green-MD	3787	Brown Gray -DK
◀	926	Gray Green-MD	3787	Brown Gray -DK
■	610	Drab Brown-DK	3362	Pine Green-DK
▴	420	Hazelnut Brown-DK	611	Drab Brown
↘	372	Mustard-LT	3064	Desert Sand
β	225	Shell Pink-UL VY LT	3866	Mocha Brown-UL VY LT
τ	3782	Mocha Brown-LT	3053	Green Gray

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	
1	White 1	997	392	949	373	854	336
224	Shell Pink-VY LT	350	137	333	131	300	118
225	Shell Pink-UL VY LT	10717	4219	10206	4018	9186	3616
310	Black	152	59	145	57	131	51
317	Pewter Gray	244	96	233	91	209	82
318	Steel Gray-LT	296	116	282	111	254	100
353	Peach	2602	1024	2478	975	2230	877
370	Mustard-MD	3170	1248	3019	1188	2717	1069
371	Mustard	4498	1770	4284	1686	3855	1517
372	Mustard-LT	4099	1613	3904	1537	3513	1383
407	Desert Sand-DK	895	352	852	335	767	301
413	Pewter Gray -DK	200	78	191	75	172	67
414	Steel Gray-DK	262	103	250	98	225	88
415	Pearl Gray	546	214	520	204	468	184
420	Hazelnut Brown-DK	1611	634	1534	603	1381	543
422	Hazelnut Brown-LT	1652	650	1573	619	1416	557
433	Brown-MD	304	119	290	114	261	102
434	Brown-LT	628	247	598	235	538	211
437	Tan-LT	35	13	33	12	30	11
451	Shell Gray-DK	816	321	777	305	699	275
452	Shell Gray-MD	802	315	764	300	687	270
453	Shell Gray-LT	4276	1683	4073	1603	3665	1442
500	Blue Green-VY DK	481	189	458	180	412	162
520	Fern Green-DK	455	179	433	170	390	153
522	Fern Green	137	53	131	51	118	46
524	Fern Green-VY LT	1475	580	1405	553	1264	497
535	Ash Gray-VY LT	256	100	244	96	219	86
610	Drab Brown-DK	4393	1729	4184	1647	3765	1482
611	Drab Brown	5693	2241	5422	2134	4880	1921
612	Drab Brown-LT	3980	1566	3791	1492	3412	1343
613	Drab Brown-VY LT	2684	1056	2556	1006	2300	905
632	Desert Sand-UL VY DK	266	104	253	99	228	89
640	Beige Gray-VY DK	2561	1008	2439	960	2195	864
642	Beige Gray-DK	687	270	654	257	589	231
645	Beaver Gray-VY DK	743	292	707	278	637	250
646	Beaver Gray-DK	772	303	735	289	662	260
647	Beaver Gray-MD	1558	613	1484	584	1335	525
648	Beaver Gray-LT	3283	1292	3127	1231	2814	1107
712	Cream	765	301	729	287	656	258
738	Tan-VY LT	5006	1970	4768	1877	4291	1689
739	Tan-UL VY LT	617	242	587	231	528	207
745	Yellow-LT Pale	312	122	297	116	268	105
746	Off White	1768	696	1684	662	1516	596
754	Peach-LT	1689	664	1609	633	1448	570
758	Terra Cotta-VY LT	99	38	94	37	85	33
762	Pearl Gray-VY LT	392	154	373	146	336	132
778	Antique Mauve-VY LT	459	180	437	172	393	154
801	Coffee Brown-DK	94	37	89	35	80	31
819	Baby Pink-LT	6453	2540	6146	2419	5531	2177
822	Beige Gray-LT	297	116	283	111	254	100
829	Golden Olive-VY DK	104	40	99	38	89	35
830	Golden Olive-DK	936	368	891	350	802	315
838	Beige Brown-VY DK	499	196	476	187	428	168
839	Beige Brown-DK	1649	649	1571	618	1414	556

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842	Beige Brown-VY LT	4616	1817	4396	1730	3956	1557
844	Beaver Brown-UL DK	629	247	599	235	539	212
869	Hazelnut Brown-VY DK	1188	467	1132	445	1019	401
898	Coffee Brown-VY DK	69	27	65	25	59	23
926	Gray Green-MD	414	162	394	155	355	139
927	Gray Green-LT	382	150	364	143	328	129
928	Gray Green-VY LT	54	21	51	20	46	18
934	Black Avocado Green	2570	1011	2448	963	2203	867
935	Avocado Green-DK	1718	676	1636	644	1472	579
938	Coffee Brown-UL DK	1316	518	1254	493	1128	444
945	Tawny	1386	545	1320	519	1188	467
948	Peach-VY LT	2359	928	2247	884	2022	796
950	Desert Sand-LT	5067	1994	4825	1899	4343	1709
951	Tawny-LT	603	237	574	225	517	203
3011	Khaki Green-DK	377	148	359	141	323	127
3012	Khaki Green-MD	132	51	126	49	113	44
3013	Khaki Green-LT	563	221	536	211	482	189
3021	Brown Gray-VY DK	3494	1375	3327	1309	2995	1179
3022	Brown Gray-MD	838	329	798	314	718	282
3023	Brown Gray-LT	982	386	935	368	841	331
3024	Brown Gray-VY LT	383	150	365	143	328	129
3031	Mocha Brown-VY DK	1074	422	1023	402	921	362
3032	Mocha Brown-MD	1416	557	1348	530	1213	477
3045	Yellow Beige-DK	827	325	787	309	709	279
3046	Yellow Beige-MD	38	14	36	14	33	12
3051	Green Gray-DK	1031	405	982	386	884	348
3052	Green Gray-MD	936	368	892	351	802	315
3053	Green Gray	1253	493	1193	469	1074	422
3064	Desert Sand	221	87	210	82	189	74
3362	Pine Green-DK	720	283	685	269	617	242
3363	Pine Green-MD	644	253	614	241	552	217
3371	Black Brown	171	67	163	64	147	57
3727	Antique Mauve-LT	180	70	171	67	154	60
3743	Antique Violet-VY LT	8360	3291	7962	3134	7166	2821
3768	Gray Green-DK	45	17	42	16	38	14
3770	Tawny-VY LT	2628	1034	2503	985	2252	886
3774	Desert Sand-VY LT	3240	1275	3086	1214	2777	1093
3781	Mocha Brown-DK	3327	1309	3169	1247	2852	1122
3782	Mocha Brown-LT	2317	912	2207	868	1986	781
3787	Brown Gray-DK	1303	512	1241	488	1117	439
3790	Beige Gray-UL DK	696	274	663	261	596	234
3799	Pewter Gray-VY DK	484	190	461	181	415	163
3823	Yellow-UL Pale	1844	725	1756	691	1580	622
3828	Hazelnut Brown	386	151	368	144	331	130
3856	Mahogany-UL VY LT	109	42	104	40	93	36
3861	Cocoa-LT	1254	493	1194	470	1074	422
3862	Mocha Beige-DK	2321	913	2210	870	1989	783
3863	Mocha Beige-MD	987	388	940	370	846	333
3864	Mocha Beige-LT	6620	2606	6305	2482	5674	2233
3865	Winter White	3545	1395	3376	1329	3039	1196
3866	Mocha Brown-UL VY LT	1335	525	1272	500	1144	450

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	1537	605	1281	504	641	252
224	Shell Pink-VY LT	540	212	450	177	225	89
225	Shell Pink-UL VY LT	16535	6509	13779	5424	6890	2712
310	Black	236	92	197	77	98	38
317	Pewter Gray	376	148	314	123	157	62
318	Steel Gray-LT	457	180	381	150	191	75
353	Peach	4014	1579	3345	1316	1673	658
370	Mustard-MD	4891	1924	4076	1604	2038	802
371	Mustard	6939	2731	5783	2276	2891	1138
372	Mustard-LT	6323	2489	5270	2075	2635	1037
407	Desert Sand-DK	1381	542	1151	452	575	226
413	Pewter Gray -DK	310	121	258	101	129	50
414	Steel Gray-DK	405	158	338	132	169	66
415	Pearl Gray	842	331	702	276	351	138
420	Hazelnut Brown-DK	2486	977	2072	815	1036	407
422	Hazelnut Brown-LT	2549	1003	2124	836	1062	418
433	Brown-MD	470	184	392	153	196	77
434	Brown-LT	968	380	807	317	404	158
437	Tan-LT	54	20	45	17	23	8
451	Shell Gray-DK	1258	495	1049	413	524	206
452	Shell Gray-MD	1237	486	1031	405	515	203
453	Shell Gray-LT	6597	2596	5498	2163	2749	1082
500	Blue Green-VY DK	742	292	618	243	309	122
520	Fern Green-DK	702	275	585	230	293	115
522	Fern Green	212	83	177	69	89	35
524	Fern Green-VY LT	2275	895	1896	746	948	373
535	Ash Gray -VY LT	394	155	329	129	164	65
610	Drab Brown-DK	6777	2668	5648	2223	2824	1112
611	Drab Brown	8784	3458	7320	2882	3660	1441
612	Drab Brown-LT	6142	2417	5118	2015	2559	1007
613	Drab Brown-VY LT	4140	1629	3450	1358	1725	679
632	Desert Sand-UL VY DK	410	160	342	134	171	67
640	Beige Gray-VY DK	3951	1555	3293	1296	1646	648
642	Beige Gray-DK	1060	416	884	347	442	173
645	Beaver Gray-VY DK	1147	450	956	375	478	188
646	Beaver Gray-DK	1192	468	993	390	497	195
647	Beaver Gray-MD	2403	945	2003	788	1001	394
648	Beaver Gray-LT	5065	1993	4221	1661	2111	830
712	Cream	1181	464	984	387	492	194
738	Tan-VY LT	7724	3040	6437	2534	3218	1267
739	Tan-UL VY LT	950	373	792	311	396	155
745	Yellow -LT Pale	482	189	402	158	201	79
746	Off White	2729	1073	2274	894	1137	447
754	Peach-LT	2606	1026	2172	855	1086	428
758	Terra Cotta-VY LT	153	59	128	50	64	25
762	Pearl Gray-VY LT	605	238	504	198	252	99
778	Antique Mauve-VY LT	707	277	590	231	295	116
801	Coffee Brown-DK	144	56	120	47	60	23
819	Baby Pink-LT	9956	3919	8297	3266	4148	1633
822	Beige Gray-LT	457	180	381	150	191	75
829	Golden Olive-VY DK	160	63	134	53	67	26
830	Golden Olive-DK	1444	567	1203	473	602	236
838	Beige Brown-VY DK	770	302	642	252	321	126

839	Beige Brown-DK	2545	1001	2121	834	1061	417
842	Beige Brown-VY LT	7121	2803	5934	2336	2967	1168
844	Beaver Brown-UL DK	970	382	809	318	404	159
869	Hazelnut Brown-VY DK	1834	722	1529	602	764	301
898	Coffee Brown-VY DK	106	41	89	35	44	17
926	Gray Green-MD	639	250	533	209	266	104
927	Gray Green-LT	590	232	492	194	246	97
928	Gray Green-VY LT	83	32	69	27	35	14
934	Black Avocado Green	3965	1561	3305	1301	1652	650
935	Avocado Green-DK	2650	1042	2208	869	1104	434
938	Coffee Brown-UL DK	2030	799	1692	666	846	333
945	Tawny	2138	841	1782	701	891	350
948	Peach-VY LT	3640	1433	3033	1194	1517	597
950	Desert Sand-LT	7817	3076	6515	2564	3257	1282
951	Tawny-LT	931	365	776	305	388	152
3011	Khaki Green-DK	581	229	485	191	242	95
3012	Khaki Green-MD	203	79	170	66	85	33
3013	Khaki Green-LT	868	340	723	284	362	142
3021	Brown Gray-VY DK	5391	2122	4493	1769	2246	884
3022	Brown Gray-MD	1292	508	1077	423	539	212
3023	Brown Gray-LT	1514	596	1262	497	631	248
3024	Brown Gray-VY LT	590	232	492	194	246	97
3031	Mocha Brown-VY DK	1658	652	1382	543	691	272
3032	Mocha Brown-MD	2183	859	1820	716	910	358
3045	Yellow Beige-DK	1276	502	1064	419	532	209
3046	Yellow Beige-MD	59	22	50	18	25	9
3051	Green Gray-DK	1591	626	1326	522	663	261
3052	Green Gray-MD	1444	567	1203	473	602	236
3053	Green Gray	1933	760	1611	633	806	317
3064	Desert Sand	340	133	284	111	142	56
3362	Pine Green-DK	1111	436	926	363	463	182
3363	Pine Green-MD	994	391	828	326	414	163
3371	Black Brown	265	103	221	86	110	43
3727	Antique Mauve-LT	277	108	231	90	116	45
3743	Antique Violet-VY LT	12899	5078	10749	4232	5375	2116
3768	Gray Green-DK	68	25	57	21	29	11
3770	Tawny-VY LT	4054	1595	3378	1329	1689	665
3774	Desert Sand-VY LT	4999	1967	4166	1640	2083	820
3781	Mocha Brown-DK	5134	2020	4278	1683	2139	842
3782	Mocha Brown-LT	3575	1406	2979	1172	1490	586
3787	Brown Gray-DK	2011	790	1676	659	838	329
3790	Beige Gray-UL DK	1073	421	894	351	447	176
3799	Pewter Gray-VY DK	747	293	623	245	311	122
3823	Yellow-UL Pale	2844	1120	2370	933	1185	467
3828	Hazelnut Brown	596	234	497	195	248	98
3856	Mahogany-UL VY LT	167	65	140	54	70	27
3861	Cocoa-LT	1933	760	1611	633	806	317
3862	Mocha Beige-DK	3580	1409	2984	1175	1492	587
3863	Mocha Beige-MD	1523	599	1269	500	635	250
3864	Mocha Beige-LT	10213	4019	8511	3350	4256	1675
3865	Winter White	5470	2153	4559	1794	2279	897
3866	Mocha Brown-UL VY LT	2059	810	1716	675	858	338

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	615	242	591	233	569	224
224	Shell Pink-VY LT	216	85	208	82	200	79
225	Shell Pink-UL VY LT	6614	2604	6360	2503	6124	2411
310	Black	94	37	91	35	87	34
317	Pewter Gray	150	59	145	57	139	55
318	Steel Gray-LT	183	72	176	69	169	67
353	Peach	1606	631	1544	607	1487	585
370	Mustard-MD	1956	770	1881	740	1811	713
371	Mustard	2776	1092	2669	1050	2570	1011
372	Mustard-LT	2529	996	2432	957	2342	922
407	Desert Sand-DK	552	217	531	208	511	201
413	Pewter Gray -DK	124	48	119	46	115	45
414	Steel Gray-DK	162	63	156	61	150	59
415	Pearl Gray	337	132	324	127	312	123
420	Hazelnut Brown-DK	994	391	956	376	921	362
422	Hazelnut Brown-LT	1020	401	980	386	944	371
433	Brown-MD	188	73	181	71	174	68
434	Brown-LT	387	152	372	146	359	141
437	Tan-LT	22	8	21	8	20	7
451	Shell Gray-DK	503	198	484	190	466	183
452	Shell Gray-MD	495	194	476	187	458	180
453	Shell Gray-LT	2639	1038	2537	998	2443	961
500	Blue Green-VY DK	297	117	285	112	275	108
520	Fern Green-DK	281	110	270	106	260	102
522	Fern Green	85	33	82	32	79	31
524	Fern Green-VY LT	910	358	875	344	843	331
535	Ash Gray -VY LT	158	62	152	60	146	57
610	Drab Brown-DK	2711	1067	2607	1026	2510	988
611	Drab Brown	3514	1383	3378	1330	3253	1281
612	Drab Brown-LT	2457	967	2362	930	2275	895
613	Drab Brown-VY LT	1656	652	1592	627	1533	603
632	Desert Sand-UL VY DK	164	64	158	62	152	59
640	Beige Gray-VY DK	1580	622	1520	598	1463	576
642	Beige Gray-DK	424	166	408	160	393	154
645	Beaver Gray-VY DK	459	180	441	173	425	167
646	Beaver Gray-DK	477	187	458	180	441	173
647	Beaver Gray-MD	961	378	924	363	890	350
648	Beaver Gray-LT	2026	797	1948	766	1876	738
712	Cream	472	186	454	179	437	172
738	Tan-VY LT	3090	1216	2971	1169	2861	1126
739	Tan-UL VY LT	380	149	366	143	352	138
745	Yellow -LT Pale	193	76	186	73	179	70
746	Off White	1092	429	1050	413	1011	397
754	Peach-LT	1043	410	1002	395	965	380
758	Terra Cotta-VY LT	61	24	59	23	57	22
762	Pearl Gray-VY LT	242	95	233	91	224	88
778	Antique Mauve-VY LT	283	111	272	107	262	103
801	Coffee Brown-DK	58	22	55	21	53	21
819	Baby Pink-LT	3982	1567	3829	1507	3687	1451
822	Beige Gray-LT	183	72	176	69	169	67
829	Golden Olive-VY DK	64	25	62	24	59	23
830	Golden Olive-DK	577	227	555	218	535	210
838	Beige Brown-VY DK	308	121	296	116	285	112

839	Beige Brown-DK	1018	400	979	385	943	371
842	Beige Brown-VY LT	2848	1121	2739	1078	2637	1038
844	Beaver Brown-UL DK	388	153	373	147	359	141
869	Hazelnut Brown-VY DK	734	289	705	278	679	267
898	Coffee Brown-VY DK	42	17	41	16	39	15
926	Gray Green-MD	256	100	246	96	237	93
927	Gray Green-LT	236	93	227	89	219	86
928	Gray Green-VY LT	33	13	32	12	31	12
934	Black Avocado Green	1586	624	1525	600	1469	578
935	Avocado Green-DK	1060	417	1019	401	981	386
938	Coffee Brown-UL DK	812	320	781	307	752	296
945	Tawny	855	336	822	323	792	311
948	Peach-VY LT	1456	573	1400	551	1348	531
950	Desert Sand-LT	3127	1230	3007	1183	2895	1139
951	Tawny-LT	372	146	358	141	345	135
3011	Khaki Green-DK	233	91	224	88	215	85
3012	Khaki Green-MD	81	32	78	30	75	29
3013	Khaki Green-LT	347	136	334	131	321	126
3021	Brown Gray -VY DK	2156	849	2073	816	1997	786
3022	Brown Gray -MD	517	203	497	195	479	188
3023	Brown Gray -LT	606	238	582	229	561	221
3024	Brown Gray -VY LT	236	93	227	89	219	86
3031	Mocha Brown-VY DK	663	261	638	251	614	241
3032	Mocha Brown-MD	873	343	840	330	809	318
3045	Yellow Beige-DK	510	201	491	193	473	186
3046	Yellow Beige-MD	24	9	23	8	22	8
3051	Green Gray-DK	636	251	612	241	589	232
3052	Green Gray-MD	577	227	555	218	535	210
3053	Green Gray	773	304	744	292	716	281
3064	Desert Sand	136	53	131	51	126	49
3362	Pine Green-DK	444	174	427	168	411	161
3363	Pine Green-MD	397	156	382	150	368	145
3371	Black Brown	106	41	102	39	98	38
3727	Antique Mauve-LT	111	43	107	42	103	40
3743	Antique Violet-VY LT	5160	2031	4961	1953	4777	1881
3768	Gray Green-DK	27	10	26	10	25	9
3770	Tawny -VY LT	1621	638	1559	613	1501	591
3774	Desert Sand-VY LT	1999	787	1923	757	1851	729
3781	Mocha Brown-DK	2053	808	1974	777	1901	748
3782	Mocha Brown-LT	1430	562	1375	541	1324	521
3787	Brown Gray -DK	804	316	773	304	745	293
3790	Beige Gray-UL DK	429	168	413	162	397	156
3799	Pewter Gray -VY DK	299	117	287	113	277	109
3823	Yellow -UL Pale	1138	448	1094	431	1053	415
3828	Hazelnut Brown	238	94	229	90	221	87
3856	Mahogany-UL VY LT	67	26	64	25	62	24
3861	Cocoa-LT	773	304	744	292	716	281
3862	Mocha Beige-DK	1432	564	1377	542	1326	522
3863	Mocha Beige-MD	609	240	586	231	564	222
3864	Mocha Beige-LT	4085	1608	3928	1546	3783	1489
3865	Winter White	2188	861	2104	828	2026	797
3866	Mocha Brown-UL VY LT	824	324	792	312	763	300

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	549	216	512	202	480	189
224	Shell Pink-VY LT	193	76	180	71	169	66
225	Shell Pink-UL VY LT	5905	2325	5512	2170	5167	2034
310	Black	84	33	79	31	74	29
317	Pewter Gray	134	53	125	49	118	46
318	Steel Gray-LT	163	64	152	60	143	56
353	Peach	1434	564	1338	526	1254	493
370	Mustard-MD	1747	687	1630	641	1528	601
371	Mustard	2478	975	2313	910	2168	853
372	Mustard-LT	2258	889	2108	830	1976	778
407	Desert Sand-DK	493	194	460	181	431	169
413	Pewter Gray -DK	111	43	103	40	97	38
414	Steel Gray-DK	145	57	135	53	127	50
415	Pearl Gray	301	118	281	110	263	104
420	Hazelnut Brown-DK	888	349	829	326	777	305
422	Hazelnut Brown-LT	910	358	850	334	797	313
433	Brown-MD	168	66	157	61	147	57
434	Brown-LT	346	136	323	127	303	119
437	Tan-LT	19	7	18	7	17	6
451	Shell Gray-DK	449	177	419	165	393	155
452	Shell Gray-MD	442	174	412	162	386	152
453	Shell Gray-LT	2356	927	2199	865	2062	811
500	Blue Green-VY DK	265	104	247	97	232	91
520	Fern Green-DK	251	98	234	92	219	86
522	Fern Green	76	30	71	28	66	26
524	Fern Green-VY LT	813	320	758	298	711	280
535	Ash Gray-VY LT	141	55	131	52	123	48
610	Drab Brown-DK	2420	953	2259	889	2118	834
611	Drab Brown	3137	1235	2928	1153	2745	1081
612	Drab Brown-LT	2193	863	2047	806	1919	755
613	Drab Brown-VY LT	1479	582	1380	543	1294	509
632	Desert Sand-UL VY DK	147	57	137	53	128	50
640	Beige Gray-VY DK	1411	555	1317	518	1235	486
642	Beige Gray-DK	379	149	353	139	331	130
645	Beaver Gray-VY DK	410	161	382	150	358	141
646	Beaver Gray-DK	426	167	397	156	372	146
647	Beaver Gray-MD	858	338	801	315	751	295
648	Beaver Gray-LT	1809	712	1688	664	1583	623
712	Cream	422	166	394	155	369	145
738	Tan-VY LT	2759	1086	2575	1013	2414	950
739	Tan-UL VY LT	339	133	317	124	297	116
745	Yellow-LT Pale	172	68	161	63	151	59
746	Off White	975	383	910	358	853	335
754	Peach-LT	931	366	869	342	815	321
758	Terra Cotta-VY LT	55	21	51	20	48	19
762	Pearl Gray-VY LT	216	85	202	79	189	74
778	Antique Mauve-VY LT	253	99	236	92	221	87
801	Coffee Brown-DK	51	20	48	19	45	17
819	Baby Pink-LT	3556	1400	3319	1306	3111	1225
822	Beige Gray-LT	163	64	152	60	143	56
829	Golden Olive-VY DK	57	23	53	21	50	20
830	Golden Olive-DK	516	203	481	189	451	177
838	Beige Brown-VY DK	275	108	257	101	241	95
839	Beige Brown-DK	909	357	848	334	795	313

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842	Beige Brown-VY LT	2543	1001	2374	934	2225	876
844	Beaver Brown-UL DK	347	136	323	127	303	119
869	Hazelnut Brown-VY DK	655	258	611	241	573	226
898	Coffee Brown-VY DK	38	15	35	14	33	13
926	Gray Green-MD	228	89	213	83	200	78
927	Gray Green-LT	211	83	197	77	185	73
928	Gray Green-VY LT	30	12	28	11	26	10
934	Black Avocado Green	1416	557	1322	520	1239	488
935	Avocado Green-DK	946	372	883	347	828	326
938	Coffee Brown-UL DK	725	285	677	266	635	250
945	Tawny	764	300	713	280	668	263
948	Peach-VY LT	1300	512	1213	478	1137	448
950	Desert Sand-LT	2792	1099	2606	1025	2443	961
951	Tawny-LT	332	131	310	122	291	114
3011	Khaki Green-DK	208	82	194	76	182	71
3012	Khaki Green-MD	73	28	68	26	64	25
3013	Khaki Green-LT	310	122	289	113	271	106
3021	Brown Gray-VY DK	1925	758	1797	707	1685	663
3022	Brown Gray-MD	462	181	431	169	404	159
3023	Brown Gray-LT	541	213	505	199	473	186
3024	Brown Gray-VY LT	211	83	197	77	185	73
3031	Mocha Brown-VY DK	592	233	553	217	518	204
3032	Mocha Brown-MD	780	307	728	286	682	268
3045	Yellow Beige-DK	456	179	425	167	399	157
3046	Yellow Beige-MD	21	8	20	7	19	7
3051	Green Gray-DK	568	224	530	209	497	196
3052	Green Gray-MD	516	203	481	189	451	177
3053	Green Gray	690	271	644	253	604	237
3064	Desert Sand	122	48	113	44	106	42
3362	Pine Green-DK	397	156	370	145	347	136
3363	Pine Green-MD	355	140	331	130	311	122
3371	Black Brown	95	37	88	34	83	32
3727	Antique Mauve-LT	99	39	92	36	87	34
3743	Antique Violet-VY LT	4607	1814	4300	1693	4031	1587
3768	Gray Green-DK	24	9	23	8	21	8
3770	Tawny-VY LT	1448	570	1351	532	1267	498
3774	Desert Sand-VY LT	1785	703	1666	656	1562	615
3781	Mocha Brown-DK	1833	721	1711	673	1604	631
3782	Mocha Brown-LT	1277	502	1192	469	1117	439
3787	Brown Gray-DK	718	282	670	263	628	247
3790	Beige Gray-UL DK	383	150	358	140	335	132
3799	Pewter Gray-VY DK	267	105	249	98	233	92
3823	Yellow-UL Pale	1016	400	948	373	889	350
3828	Hazelnut Brown	213	84	199	78	186	73
3856	Mahogany-UL VY LT	60	23	56	22	52	20
3861	Cocoa-LT	690	271	644	253	604	237
3862	Mocha Beige-DK	1279	503	1193	470	1119	440
3863	Mocha Beige-MD	544	214	508	200	476	187
3864	Mocha Beige-LT	3648	1436	3404	1340	3192	1256
3865	Winter White	1954	769	1823	718	1709	673
3866	Mocha Brown-UL VY LT	735	289	686	270	644	253

[illegible]

$$(16) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

	100	110	120	130	140	150
10	100	110	120	130	140	150
20	200	210	220	230	240	250
30	300	310	320	330	340	350
40	400	410	420	430	440	450
50	500	510	520	530	540	550
60	600	610	620	630	640	650
70	700	710	720	730	740	750

	150	160	170	180	190
10
20
30
40
50
60
70

$$(19) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	250	260	270	280	290
10
20
30
40
50
60
70

$$(21) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds \quad (22)$$

[illegible]

[illegible]

$$(24) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	490	500	510	520	530	540
	1	2	3	4	5	6
	7	8	9	10	11	12
	13	14	15	16	17	18
	19	20	21	22	23	24
	25	26	27	28	29	30
	31	32	33	34	35	36
	37	38	39	40	41	42
	43	44	45	46	47	48
	49	50	51	52	53	54
	55	56	57	58	59	60
	61	62	63	64	65	66
	67	68	69	70	71	72
	73	74	75	76	77	78
	79	80	81	82	83	84
	85	86	87	88	89	90
	91	92	93	94	95	96
	97	98	99	100	101	102
	103	104	105	106	107	108
	109	110	111	112	113	114
	115	116	117	118	119	120
	121	122	123	124	125	126
	127	128	129	130	131	132
	133	134	135	136	137	138
	139	140	141	142	143	144
	145	146	147	148	149	150
	151	152	153	154	155	156
	157	158	159	160	161	162
	163	164	165	166	167	168
	169	170	171	172	173	174
	175	176	177	178	179	180
	181	182	183	184	185	186
	187	188	189	190	191	192
	193	194	195	196	197	198
	199	200	201	202	203	204
	205	206	207	208	209	210
	211	212	213	214	215	216
	217	218	219	220	221	222
	223	224	225	226	227	228
	229	230	231	232	233	234
	235	236	237	238	239	240
	241	242	243	244	245	246
	247	248	249	250	251	252
	253	254	255	256	257	258
	259	260	261	262	263	264
	265	266	267	268	269	270
	271	272	273	274	275	276
	277	278	279	280	281	282
	283	284	285	286	287	288
	289	290	291	292	293	294
	295	296	297	298	299	300
	301	302	303	304	305	306
	307	308	309	310	311	312
	313	314	315	316	317	318
	319	320	321	322	323	324
	325	326	327	328	329	330
	331	332	333	334	335	336
	337	338	339	340	341	342
	343	344	345	346	347	348
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	355	356	357	358	359	360
	361	362	363	364	365	366
	367	368	369	370	371	372
	373	374	375	376	377	378
	379	380	381	382	383	384
	385	386	387	388	389	390
	391	392	393	394	395	396
	397	398	399	400	401	402
	403	404	405	406	407	408
	409	410	411	412	413	414
	415	416	417	418	419	420
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	427	428	429	430	431	432
	433	434	435	436	437	438
	439	440	441	442	443	444
	445	446	447	448	449	450
	451	452	453	454	455	456
	457	458	459	460	461	462
	463	464	465	466	467	468
	469	470	471	472	473	474
	475	476	477	478	479	480
	481	482	483	484	485	486
	487	488	489	490	491	492
	493	494	495	496	497	498
	499	500	501	502	503	504
	505	506	507	508	509	510
	511	512	513	514	515	516
	517	518	519	520	521	522
	523	524	525	526	527	528
	529	530	531	532	533	534
	535	536	537	538	539	540
	541	542	543	544	545	546
	547	548	549	550	551	552
	553	554	555	556	557	558
	559	560	561	562	563	564
	565	566	567	568	569	570
	571	572	573	574	575	576
	577	578	579	580	581	582
	583	584	585	586	587	588
	589	590	591	592	593	594
	595	596	597	598	599	600
	601	602	603	604	605	606
	607	608	609	610	611	612
	613	614	615	616	617	618
	619	620	621	622	623	624
	625	626	627	628	629	630
	631	632	633	634	635	636
	637	638	639	640	641	642
	643	644	645	646	647	648
	649	650	651	652	653	654
	655	656	657	658	659	660
	661	662	663	664	665	666
	667	668	669	670	671	672
	673	674	675	676	677	678
	679	680	681	682	683	684
	685	686	687	688	689	690
	691	692	693	694	695	696
	697	698	699	700	701	702
	703	704	705	706	707	708
	709	710	711	712	713	714
	715	716	717	718	719	720
	721	722	723	724	725	726
	727	728	729	730	731	732
	733	734	735	736	737	738
	739	740	741	742	743	744
	745	746	747	748	749	750
	751	752	753	754	755	756
	757	758	759	760	761	762
	763	764	765	766	767	768
	769	770	771	772	773	774
	775	776	777	778	779	780
	781	782	783	784	785	786
	787	788	789	790	791	792
	793	794	795	796	797	798
	799	800	801	802	803	804
	805	806	807	808	809	810
	811	812	813	814	815	816
	817	818	819	820	821	822
	823	824	825	826	827	828
	829	830	831	832	833	834
	835	836	837	838	839	840
	841	842	843	844	845	846
	847	848	849	850	851	852
	853	854	855	856	857	858
	859	860	861	862	863	864
	865	866	867	868	869	870
	871	872	873	874	875	876
	877	878	879	880	881	882
	883	884	885	886	887	888
	889	890	891	892	893	894
	895	896	897	898	899	900
	901	902	903	904	905	906
	907	908	909	910	911	912
	913	914	915	916	917	918
	919	920	921	922	923	924
	925	926	927	928	929	930
	931	932	933	934	935	936
	937	938	939	940	941	942
	943	944	945	946	947	948
	949	950	951	952	953	954
	955	956	957	958	959	960
	961	962	963	964	965	966
	967	968	969	970	971	972
	973	974	975	976	977	978
	979	980	981	982	983	984
	985	986	987	988	989	990
	991	992	993	994	995	996
	997	998	999	1000	1001	1002
	1003	1004	1005	1006	1007	1008
	1009	1010	1011	1012	1013	1014
	1015	1016	1017	1018	1019	1020
	1021	1022	1023	1024	1025	1026
	1027	1028	1029	1030	1031	1032
	1033	1034	1035	1036	1037	1038
	1039	1040	1041	1042	1043	1044
	1045	1046	1047	1048	1049	1050
	1051	1052	1053	1054	1055	1056
	1057	1058	1059	1060	1061	1062
	1063	1064	1065	1066	1067	1068
	1069	1070	1071	1072	1073	1074
	1075	1076	1077	1078	1079	1080
	1081	1082	1083	1084	1085	1086
	1087	1088	1089	1090	1091	1092
	1093	1094	1095	1096	1097	1098
	1099	1100	1101	1102	1103	1104
	1105	1106	1107	1108	1109	1110
	1111	1112	1113	1114	1115	1116
	1117	1118	1119	1120	1121	1122
	1123	1124	1125	1126	1127	1128
	1129	1130	1131	1132	1133	1134
	1135	1136	1137	1138	1139	1140
	1141	1142	1143	1144	1145	1146
	1147	1148	1149	1150	1151	1152
	1153	1154	1155	1156	1157	1158
	1159	1160	1161	1162	1163	1164
	1165	1166	1167	1168	1169	1170
	1171	1172	1173	1174	1175	1176
	1177	1178	1179	1180	1181	1182
	1183	1184	1185	1186	1187	1188
	1189	1190	1191	1192	1193	1194
	1195	1196	1197	1198	1199	1200
	1201	1202	1203	1204	1205	1206
	1207	1208	1209	1210	1211	1212
	1213	1214	1215	1216	1217	1218
	1219	1220	1221	1222	1223	1224
	1225	1226	1227	1228	1229	1230
	1231	1232	1233	1234	1235	1236
	1237	1238	1239	1240	1241	1242
	1243	1244	1245	1246	1247	1248
	1249	1250	1251	1252	1253	1254
	1255	1256	1257	1258	1259	1260
	1261	1262	1263	1264	1265	1266
	1267	1268	1269</			

[illegible]

[illegible]

[illegible]

[illegible]

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

	100	110	120	130	140	150
70	3	3	3	3	3	3
71	3	3	3	3	3	3
72	3	3	3	3	3	3
73	3	3	3	3	3	3
74	3	3	3	3	3	3
75	3	3	3	3	3	3
76	3	3	3	3	3	3
77	3	3	3	3	3	3
78	3	3	3	3	3	3
79	3	3	3	3	3	3
80	3	3	3	3	3	3
81	3	3	3	3	3	3
82	3	3	3	3	3	3
83	3	3	3	3	3	3
84	3	3	3	3	3	3
85	3	3	3	3	3	3
86	3	3	3	3	3	3
87	3	3	3	3	3	3
88	3	3	3	3	3	3
89	3	3	3	3	3	3
90	3	3	3	3	3	3
91	3	3	3	3	3	3
92	3	3	3	3	3	3
93	3	3	3	3	3	3
94	3	3	3	3	3	3
95	3	3	3	3	3	3
96	3	3	3	3	3	3
97	3	3	3	3	3	3
98	3	3	3	3	3	3
99	3	3	3	3	3	3
100	3	3	3	3	3	3
101	3	3	3	3	3	3
102	3	3	3	3	3	3
103	3	3	3	3	3	3
104	3	3	3	3	3	3
105	3	3	3	3	3	3
106	3	3	3	3	3	3
107	3	3	3	3	3	3
108	3	3	3	3	3	3
109	3	3	3	3	3	3
110	3	3	3	3	3	3
111	3	3	3	3	3	3
112	3	3	3	3	3	3
113	3	3	3	3	3	3
114	3	3	3	3	3	3
115	3	3	3	3	3	3
116	3	3	3	3	3	3
117	3	3	3	3	3	3
118	3	3	3	3	3	3
119	3	3	3	3	3	3
120	3	3	3	3	3	3
121	3	3	3	3	3	3
122	3	3	3	3	3	3
123	3	3	3	3	3	3
124	3	3	3	3	3	3
125	3	3	3	3	3	3
126	3	3	3	3	3	3
127	3	3	3	3	3	3
128	3	3	3	3	3	3
129	3	3	3	3	3	3
130	3	3	3	3	3	3
131	3	3	3	3	3	3
132	3	3	3	3	3	3
133	3	3	3	3	3	3
134	3	3	3	3	3	3
135	3	3	3	3	3	3
136	3	3	3	3	3	3
137	3	3	3	3	3	3
138	3	3	3	3	3	3
139	3	3	3	3	3	3
140	3	3	3	3	3	3
141	3	3	3	3	3	3
142	3	3	3	3	3	3
143	3	3	3	3	3	3
144	3	3	3	3	3	3
145	3	3	3	3	3	3
146	3	3	3	3	3	3
147	3	3	3	3	3	3
148	3	3	3	3	3	3
149	3	3	3	3	3	3
150	3	3	3	3	3	3

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

	250	260	270	280	290
70
80
90
100
110
120
130
140

	300	310	320	330	340
70
80
90
100
110
120
130
140

	350	360	370	380	390
70	70	70	70	70	70
80	80	80	80	80	80
90	90	90	90	90	90
100	100	100	100	100	100
110	110	110	110	110	110
120	120	120	120	120	120
130	130	130	130	130	130
140	140	140	140	140	140

$$(37) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

	450	460	470	480	490
70
80
90
100
110
120
130
140

$$(39) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

	540	550	560	570	580	590
70	✓	✓	✓	✓	✓	✓
71	✓	✓	✓	✓	✓	✓
72	✓	✓	✓	✓	✓	✓
73	✓	✓	✓	✓	✓	✓
74	✓	✓	✓	✓	✓	✓
75	✓	✓	✓	✓	✓	✓
76	✓	✓	✓	✓	✓	✓
77	✓	✓	✓	✓	✓	✓
78	✓	✓	✓	✓	✓	✓
79	✓	✓	✓	✓	✓	✓
80	✓	✓	✓	✓	✓	✓
81	✓	✓	✓	✓	✓	✓
82	✓	✓	✓	✓	✓	✓
83	✓	✓	✓	✓	✓	✓
84	✓	✓	✓	✓	✓	✓
85	✓	✓	✓	✓	✓	✓
86	✓	✓	✓	✓	✓	✓
87	✓	✓	✓	✓	✓	✓
88	✓	✓	✓	✓	✓	✓
89	✓	✓	✓	✓	✓	✓
90	✓	✓	✓	✓	✓	✓
91	✓	✓	✓	✓	✓	✓
92	✓	✓	✓	✓	✓	✓
93	✓	✓	✓	✓	✓	✓
94	✓	✓	✓	✓	✓	✓
95	✓	✓	✓	✓	✓	✓
96	✓	✓	✓	✓	✓	✓
97	✓	✓	✓	✓	✓	✓
98	✓	✓	✓	✓	✓	✓
99	✓	✓	✓	✓	✓	✓
100	✓	✓	✓	✓	✓	✓
101	✓	✓	✓	✓	✓	✓
102	✓	✓	✓	✓	✓	✓
103	✓	✓	✓	✓	✓	✓
104	✓	✓	✓	✓	✓	✓
105	✓	✓	✓	✓	✓	✓
106	✓	✓	✓	✓	✓	✓
107	✓	✓	✓	✓	✓	✓
108	✓	✓	✓	✓	✓	✓
109	✓	✓	✓	✓	✓	✓
110	✓	✓	✓	✓	✓	✓
111	✓	✓	✓	✓	✓	✓
112	✓	✓	✓	✓	✓	✓
113	✓	✓	✓	✓	✓	✓
114	✓	✓	✓	✓	✓	✓
115	✓	✓	✓	✓	✓	✓
116	✓	✓	✓	✓	✓	✓
117	✓	✓	✓	✓	✓	✓
118	✓	✓	✓	✓	✓	✓
119	✓	✓	✓	✓	✓	✓
120	✓	✓	✓	✓	✓	✓
121	✓	✓	✓	✓	✓	✓
122	✓	✓	✓	✓	✓	✓
123	✓	✓	✓	✓	✓	✓
124	✓	✓	✓	✓	✓	✓
125	✓	✓	✓	✓	✓	✓
126	✓	✓	✓	✓	✓	✓
127	✓	✓	✓	✓	✓	✓
128	✓	✓	✓	✓	✓	✓
129	✓	✓	✓	✓	✓	✓
130	✓	✓	✓	✓	✓	✓
131	✓	✓	✓	✓	✓	✓
132	✓	✓	✓	✓	✓	✓
133	✓	✓	✓	✓	✓	✓
134	✓	✓	✓	✓	✓	✓
135	✓	✓	✓	✓	✓	✓
136	✓	✓	✓	✓	✓	✓
137	✓	✓	✓	✓	✓	✓
138	✓	✓	✓	✓	✓	✓
139	✓	✓	✓	✓	✓	✓
140	✓	✓	✓	✓	✓	✓

	590	600	610	620	630	640
70						
80						
90						
100						
110						
120						
130						
140						

(42)

[illegible]

$$(44) \quad \text{[...]} \quad (45)$$

	100	110	120	130	140	150
140	✓	✓	✓	✓	✓	✓
141	✓	✓	✓	✓	✓	✓
142	✓	✓	✓	✓	✓	✓
143	✓	✓	✓	✓	✓	✓
144	✓	✓	✓	✓	✓	✓
145	✓	✓	✓	✓	✓	✓
146	✓	✓	✓	✓	✓	✓
147	✓	✓	✓	✓	✓	✓
148	✓	✓	✓	✓	✓	✓
149	✓	✓	✓	✓	✓	✓
150	✓	✓	✓	✓	✓	✓
151	✓	✓	✓	✓	✓	✓
152	✓	✓	✓	✓	✓	✓
153	✓	✓	✓	✓	✓	✓
154	✓	✓	✓	✓	✓	✓
155	✓	✓	✓	✓	✓	✓
156	✓	✓	✓	✓	✓	✓
157	✓	✓	✓	✓	✓	✓
158	✓	✓	✓	✓	✓	✓
159	✓	✓	✓	✓	✓	✓
160	✓	✓	✓	✓	✓	✓
161	✓	✓	✓	✓	✓	✓
162	✓	✓	✓	✓	✓	✓
163	✓	✓	✓	✓	✓	✓
164	✓	✓	✓	✓	✓	✓
165	✓	✓	✓	✓	✓	✓
166	✓	✓	✓	✓	✓	✓
167	✓	✓	✓	✓	✓	✓
168	✓	✓	✓	✓	✓	✓
169	✓	✓	✓	✓	✓	✓
170	✓	✓	✓	✓	✓	✓
171	✓	✓	✓	✓	✓	✓
172	✓	✓	✓	✓	✓	✓
173	✓	✓	✓	✓	✓	✓
174	✓	✓	✓	✓	✓	✓
175	✓	✓	✓	✓	✓	✓
176	✓	✓	✓	✓	✓	✓
177	✓	✓	✓	✓	✓	✓
178	✓	✓	✓	✓	✓	✓
179	✓	✓	✓	✓	✓	✓
180	✓	✓	✓	✓	✓	✓
181	✓	✓	✓	✓	✓	✓
182	✓	✓	✓	✓	✓	✓
183	✓	✓	✓	✓	✓	✓
184	✓	✓	✓	✓	✓	✓
185	✓	✓	✓	✓	✓	✓
186	✓	✓	✓	✓	✓	✓
187	✓	✓	✓	✓	✓	✓
188	✓	✓	✓	✓	✓	✓
189	✓	✓	✓	✓	✓	✓
190	✓	✓	✓	✓	✓	✓
191	✓	✓	✓	✓	✓	✓
192	✓	✓	✓	✓	✓	✓
193	✓	✓	✓	✓	✓	✓
194	✓	✓	✓	✓	✓	✓
195	✓	✓	✓	✓	✓	✓
196	✓	✓	✓	✓	✓	✓
197	✓	✓	✓	✓	✓	✓
198	✓	✓	✓	✓	✓	✓
199	✓	✓	✓	✓	✓	✓
200	✓	✓	✓	✓	✓	✓
201	✓	✓	✓	✓	✓	✓
202	✓	✓	✓	✓	✓	✓
203	✓	✓	✓	✓	✓	✓
204	✓	✓	✓	✓	✓	✓
205	✓	✓	✓	✓	✓	✓
206	✓	✓	✓	✓	✓	✓
207	✓	✓	✓	✓	✓	✓
208	✓	✓	✓	✓	✓	✓
209	✓	✓	✓	✓	✓	✓
210	✓	✓	✓	✓	✓	✓

	150	160	170	180	190
140	♂	♂	♂	♂	♂
141	♂	♂	♂	♂	♂
142	♂	♂	♂	♂	♂
143	♂	♂	♂	♂	♂
144	♂	♂	♂	♂	♂
145	♂	♂	♂	♂	♂
146	♂	♂	♂	♂	♂
147	♂	♂	♂	♂	♂
148	♂	♂	♂	♂	♂
149	♂	♂	♂	♂	♂
150	♂	♂	♂	♂	♂
151	♂	♂	♂	♂	♂
152	♂	♂	♂	♂	♂
153	♂	♂	♂	♂	♂
154	♂	♂	♂	♂	♂
155	♂	♂	♂	♂	♂
156	♂	♂	♂	♂	♂
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	200	210	220	230	240
140	✓	✓	✓	✓	✓
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210	✓	✓	✓	✓	✓

	250	260	270	280	290
140	✓	✓	✓	✓	✓
141	✓	✓	✓	✓	✓
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209	✓	✓	✓	✓	✓
210	✓	✓	✓	✓	✓

[illegible]

	540	550	560	570	580	590
140	6	6	6	6	6	6
141	6	6	6	6	6	6
142	6	6	6	6	6	6
143	6	6	6	6	6	6
144	6	6	6	6	6	6
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206	6	6	6	6	6	6
207	6	6	6	6	6	6
208	6	6	6	6	6	6
209	6	6	6	6	6	6
210	6	6	6	6	6	6

$$(55) \quad \text{[The text of equation (55) is illegible in the image]} \quad (56)$$

	10	20	30	40	50
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270

	50	60	70	80	90	100
210	⬇	⬇	⬇	⬇	⬇	⬇
220	⬇	⬇	⬇	⬇	⬇	⬇
230	⬇	⬇	⬇	⬇	⬇	⬇
240	⬇	⬇	⬇	⬇	⬇	⬇
250	⬇	⬇	⬇	⬇	⬇	⬇
260	⬇	⬇	⬇	⬇	⬇	⬇
270	⬇	⬇	⬇	⬇	⬇	⬇

$$(59) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

	150	160	170	180	190
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270

[illegible]

	300	310	320	330	340
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	✓	✓	✓	✓	✓
470	✓	✓	✓	✓	✓
480	✓	✓	✓	✓	✓
490	✓	✓	✓	✓	✓
500	✓	✓	✓	✓	✓
510	✓	✓	✓	✓	✓
520	✓	✓	✓	✓	✓
530	✓	✓	✓	✓	✓
540	✓	✓	✓	✓	✓
550	✓	✓	✓	✓	✓
560	✓	✓	✓	✓	✓
570	✓	✓	✓	✓	✓
580	✓	✓	✓	✓	✓
590	✓	✓	✓	✓	✓
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690	✓	✓	✓	✓	✓
700	✓	✓	✓	✓	✓
710	✓	✓	✓	✓	✓
720	✓	✓	✓	✓	✓
730	✓	✓	✓	✓	✓
740	✓	✓	✓	✓	✓
750	✓	✓	✓	✓	✓
760	✓	✓	✓	✓	✓
770	✓	✓	✓	✓	✓
780	✓	✓	✓	✓	✓
790	✓	✓	✓	✓	✓
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810	✓	✓	✓	✓	✓
820	✓	✓	✓	✓	✓
830	✓	✓	✓	✓	✓
840	✓	✓	✓	✓	✓
850	✓	✓	✓	✓	✓
860	✓	✓	✓	✓	✓
870	✓	✓	✓	✓	✓
880	✓	✓	✓	✓	✓
890	✓	✓	✓	✓	✓
900	✓	✓	✓	✓	✓
910	✓	✓	✓	✓	✓
920	✓	✓	✓	✓	✓
930	✓	✓	✓	✓	✓
940	✓	✓	✓	✓	✓
950	✓	✓	✓	✓	✓
960	✓	✓	✓	✓	✓
970	✓	✓	✓	✓	✓
980	✓	✓	✓	✓	✓
990	✓	✓	✓	✓	✓
1000	✓	✓	✓	✓	✓

[illegible]

	490	500	510	520	530	540
210	☀	☀	☀	☀	☀	☀
220	☀	☀	☀	☀	☀	☀
230	☀	☀	☀	☀	☀	☀
240	☀	☀	☀	☀	☀	☀
250	☀	☀	☀	☀	☀	☀
260	☀	☀	☀	☀	☀	☀
270	☀	☀	☀	☀	☀	☀

	540	550	560	570	580	590
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[illegible]

[illegible]

	10	20	30	40	50
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$$(72) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha^\beta f(t), \quad t \in [0, T],$$

[illegible]

	150	160	170	180	190
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	200	210	220	230	240
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340

(77)

	300	310	320	330	340
280
290
300
310
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330
340

[illegible]

(81)

(82)

(84)

(84)

	10	20	30	40	50
350	♂	♂	♂	♂	♂
351	♂	♂	♂	♂	♂
352	♂	♂	♂	♂	♂
353	♂	♂	♂	♂	♂
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413	♂	♂	♂	♂	♂
414	♂	♂	♂	♂	♂
415	♂	♂	♂	♂	♂
416	♂	♂	♂	♂	♂
417	♂	♂	♂	♂	♂
418	♂	♂	♂	♂	♂
419	♂	♂	♂	♂	♂
420	♂	♂	♂	♂	♂

	50	60	70	80	90	100
350	+	+	+	+	+	+
360	+	+	+	+	+	+
370	+	+	+	+	+	+
380	+	+	+	+	+	+
390	+	+	+	+	+	+
400	+	+	+	+	+	+
410	+	+	+	+	+	+
420	+	+	+	+	+	+
430	+	+	+	+	+	+
440	+	+	+	+	+	+
450	+	+	+	+	+	+
460	+	+	+	+	+	+
470	+	+	+	+	+	+
480	+	+	+	+	+	+
490	+	+	+	+	+	+
500	+	+	+	+	+	+
510	+	+	+	+	+	+
520	+	+	+	+	+	+
530	+	+	+	+	+	+
540	+	+	+	+	+	+
550	+	+	+	+	+	+
560	+	+	+	+	+	+
570	+	+	+	+	+	+
580	+	+	+	+	+	+
590	+	+	+	+	+	+
600	+	+	+	+	+	+
610	+	+	+	+	+	+
620	+	+	+	+	+	+
630	+	+	+	+	+	+
640	+	+	+	+	+	+
650	+	+	+	+	+	+
660	+	+	+	+	+	+
670	+	+	+	+	+	+
680	+	+	+	+	+	+
690	+	+	+	+	+	+
700	+	+	+	+	+	+
710	+	+	+	+	+	+
720	+	+	+	+	+	+
730	+	+	+	+	+	+
740	+	+	+	+	+	+
750	+	+	+	+	+	+
760	+	+	+	+	+	+
770	+	+	+	+	+	+
780	+	+	+	+	+	+
790	+	+	+	+	+	+
800	+	+	+	+	+	+
810	+	+	+	+	+	+
820	+	+	+	+	+	+
830	+	+	+	+	+	+
840	+	+	+	+	+	+
850	+	+	+	+	+	+
860	+	+	+	+	+	+
870	+	+	+	+	+	+
880	+	+	+	+	+	+
890	+	+	+	+	+	+
900	+	+	+	+	+	+
910	+	+	+	+	+	+
920	+	+	+	+	+	+
930	+	+	+	+	+	+
940	+	+	+	+	+	+
950	+	+	+	+	+	+
960	+	+	+	+	+	+
970	+	+	+	+	+	+
980	+	+	+	+	+	+
990	+	+	+	+	+	+
1000	+	+	+	+	+	+

[illegible]

[illegible]

[illegible]

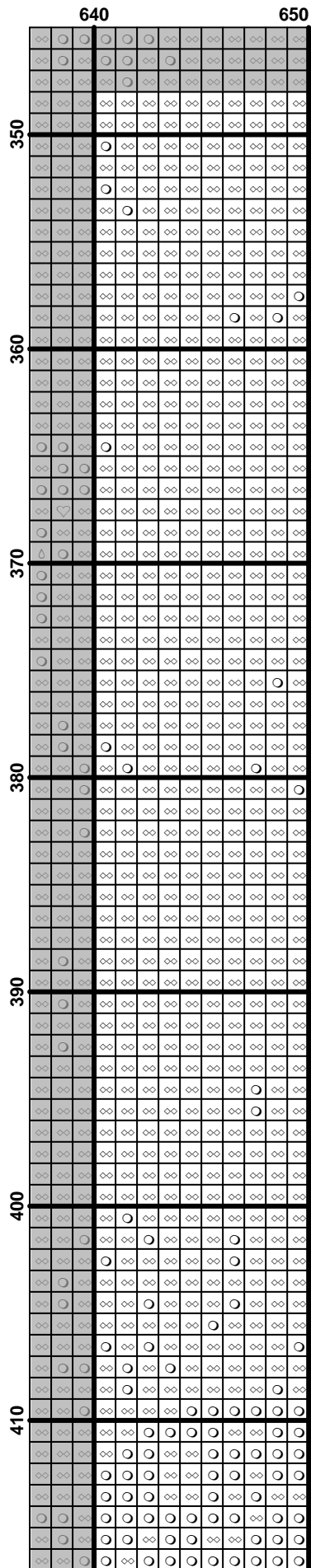
(92)

$$(92) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

$$(93) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

$$(94) \quad \frac{1}{\Gamma(\alpha)} \int_0^1 (1-s)^{\alpha-1} s^{\alpha-1} ds = \frac{1}{\Gamma(\alpha)^2} \int_0^1 (1-s)^{\alpha-1} s^{\alpha-1} ds \quad (95)$$

$$(95) \quad \text{[The } \langle \text{N} \rangle \text{ is a } \langle \text{N} \rangle \text{]} \text{ is a } \langle \text{N} \rangle \text{.} \quad (96)$$



[illegible]

	50	60	70	80	90	100
420	+	+	+	+	+	+
430	+	+	+	+	+	+
440	+	+	+	+	+	+
450	+	+	+	+	+	+
460	+	+	+	+	+	+
470	+	+	+	+	+	+
480	+	+	+	+	+	+

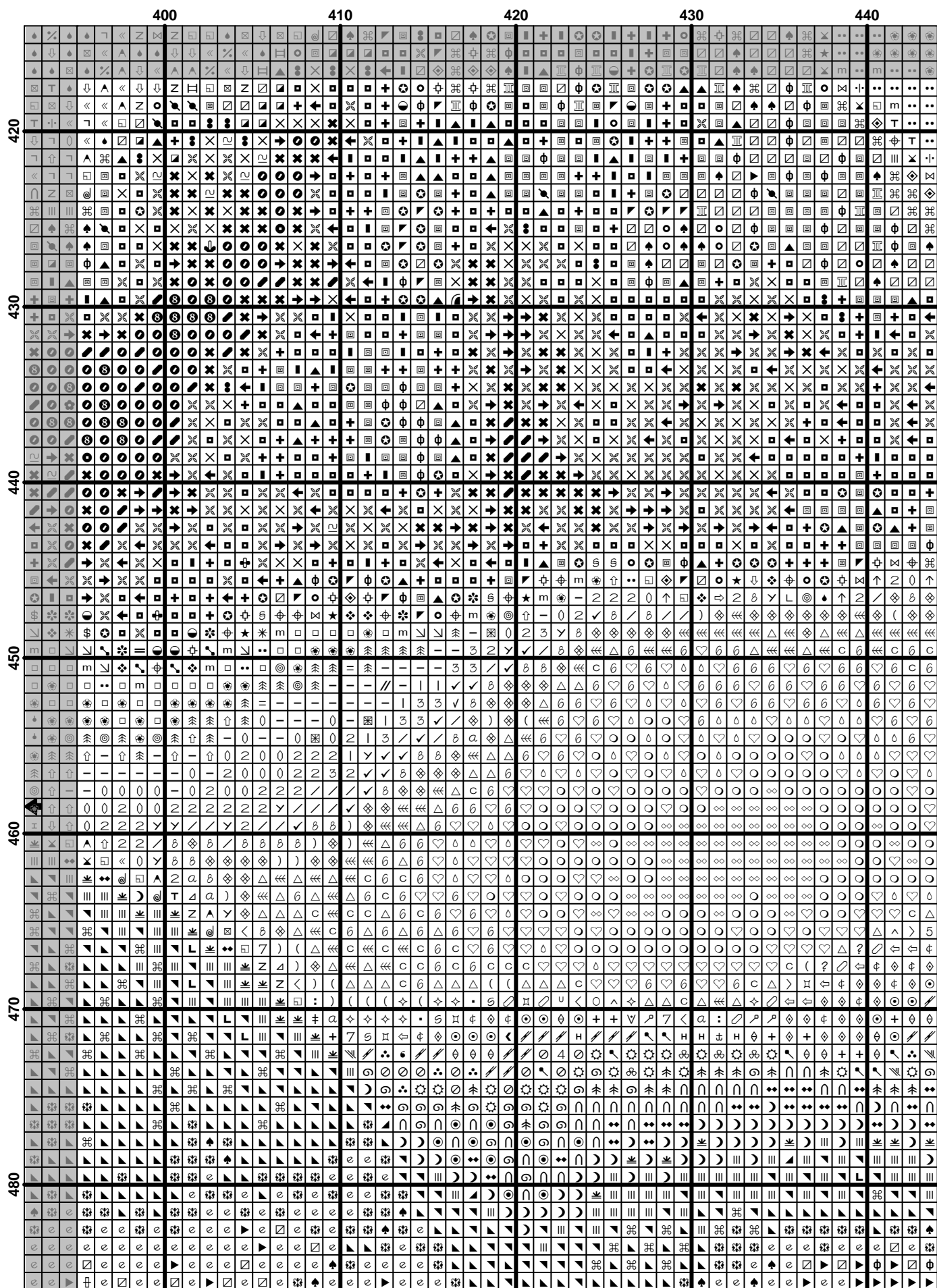
[illegible]

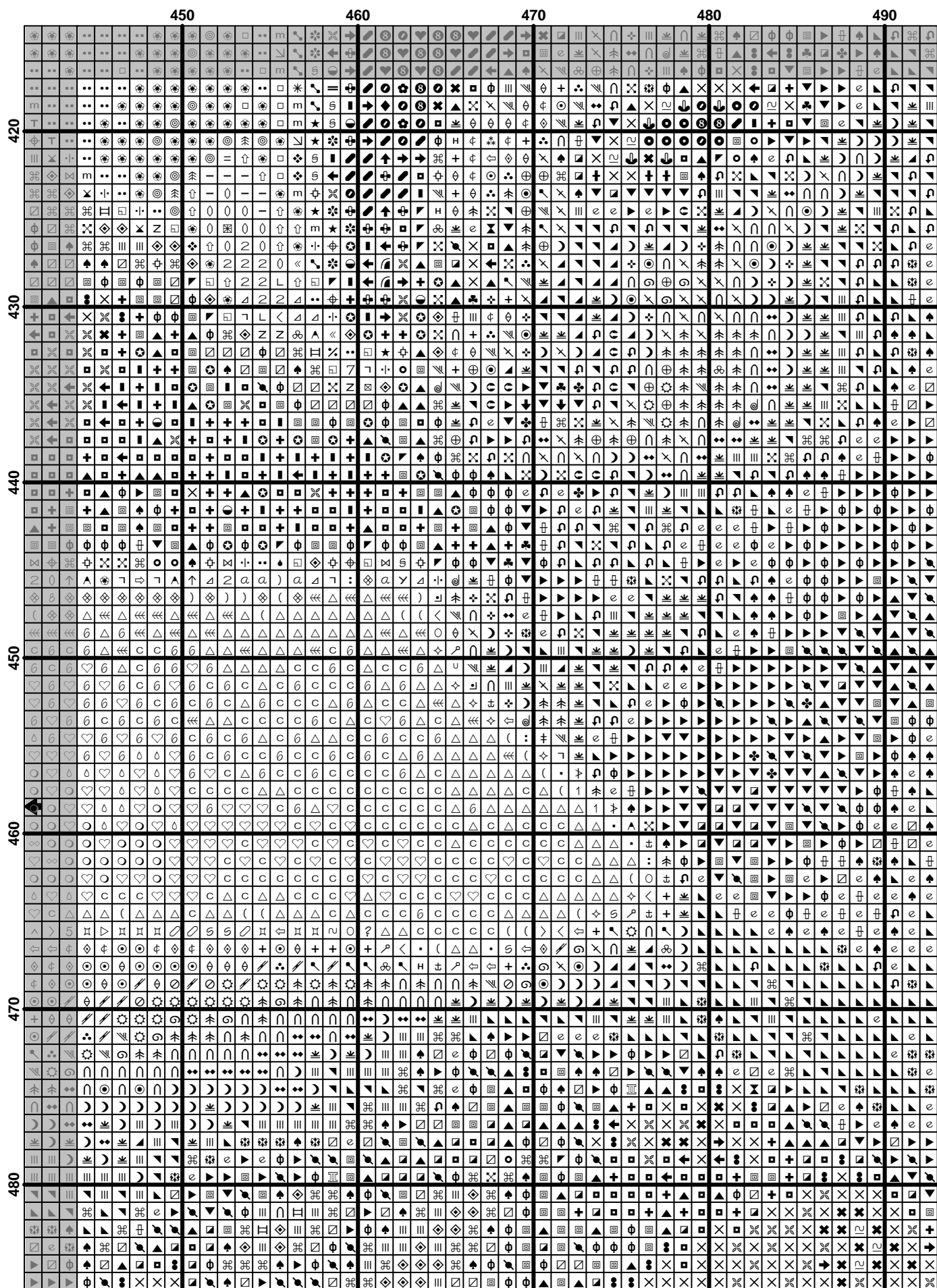
(103)

$$(104) \quad \text{[The } \langle \text{N} \rangle \text{ is a } \langle \text{N} \rangle \text{]} \text{ is a } \langle \text{N} \rangle \text{.} \quad (105)$$

	300	310	320	330	340
420	?	?	?	?	?
430	?	?	?	?	?
440	?	?	?	?	?
450	?	?	?	?	?
460	?	?	?	?	?
470	?	?	?	?	?
480	?	?	?	?	?

	350	360	370	380	390
420	★	★	★	★	★
421	★	★	★	★	★
422	★	★	★	★	★
423	★	★	★	★	★
424	★	★	★	★	★
425	★	★	★	★	★
426	★	★	★	★	★
427	★	★	★	★	★
428	★	★	★	★	★
429	★	★	★	★	★
430	★	★	★	★	★
431	★	★	★	★	★
432	★	★	★	★	★
433	★	★	★	★	★
434	★	★	★	★	★
435	★	★	★	★	★
436	★	★	★	★	★
437	★	★	★	★	★
438	★	★	★	★	★
439	★	★	★	★	★
440	★	★	★	★	★
441	★	★	★	★	★
442	★	★	★	★	★
443	★	★	★	★	★
444	★	★	★	★	★
445	★	★	★	★	★
446	★	★	★	★	★
447	★	★	★	★	★
448	★	★	★	★	★
449	★	★	★	★	★
450	★	★	★	★	★
451	★	★	★	★	★
452	★	★	★	★	★
453	★	★	★	★	★
454	★	★	★	★	★
455	★	★	★	★	★
456	★	★	★	★	★
457	★	★	★	★	★
458	★	★	★	★	★
459	★	★	★	★	★
460	★	★	★	★	★
461	★	★	★	★	★
462	★	★	★	★	★
463	★	★	★	★	★
464	★	★	★	★	★
465	★	★	★	★	★
466	★	★	★	★	★
467	★	★	★	★	★
468	★	★	★	★	★
469	★	★	★	★	★
470	★	★	★	★	★
471	★	★	★	★	★
472	★	★	★	★	★
473	★	★	★	★	★
474	★	★	★	★	★
475	★	★	★	★	★
476	★	★	★	★	★
477	★	★	★	★	★
478	★	★	★	★	★
479	★	★	★	★	★
480	★	★	★	★	★

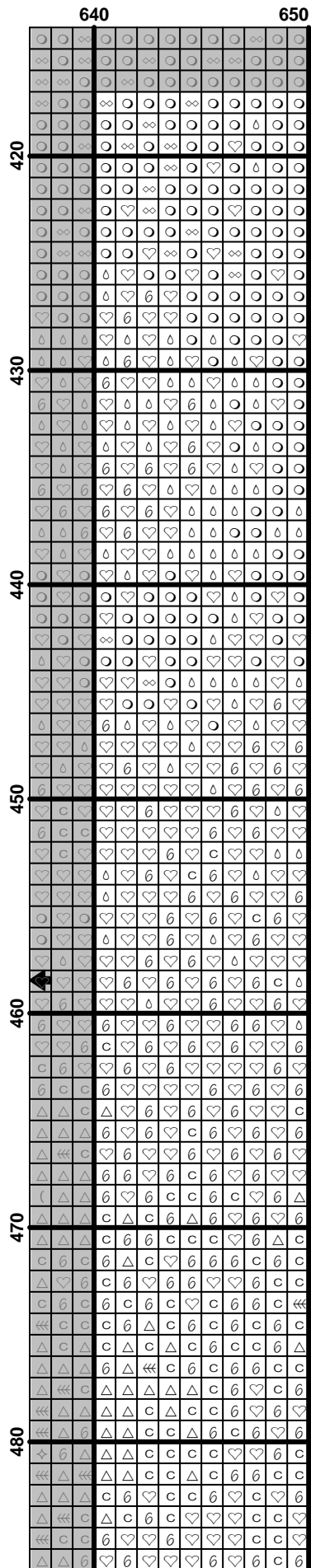




(109) (110)

[illegible]

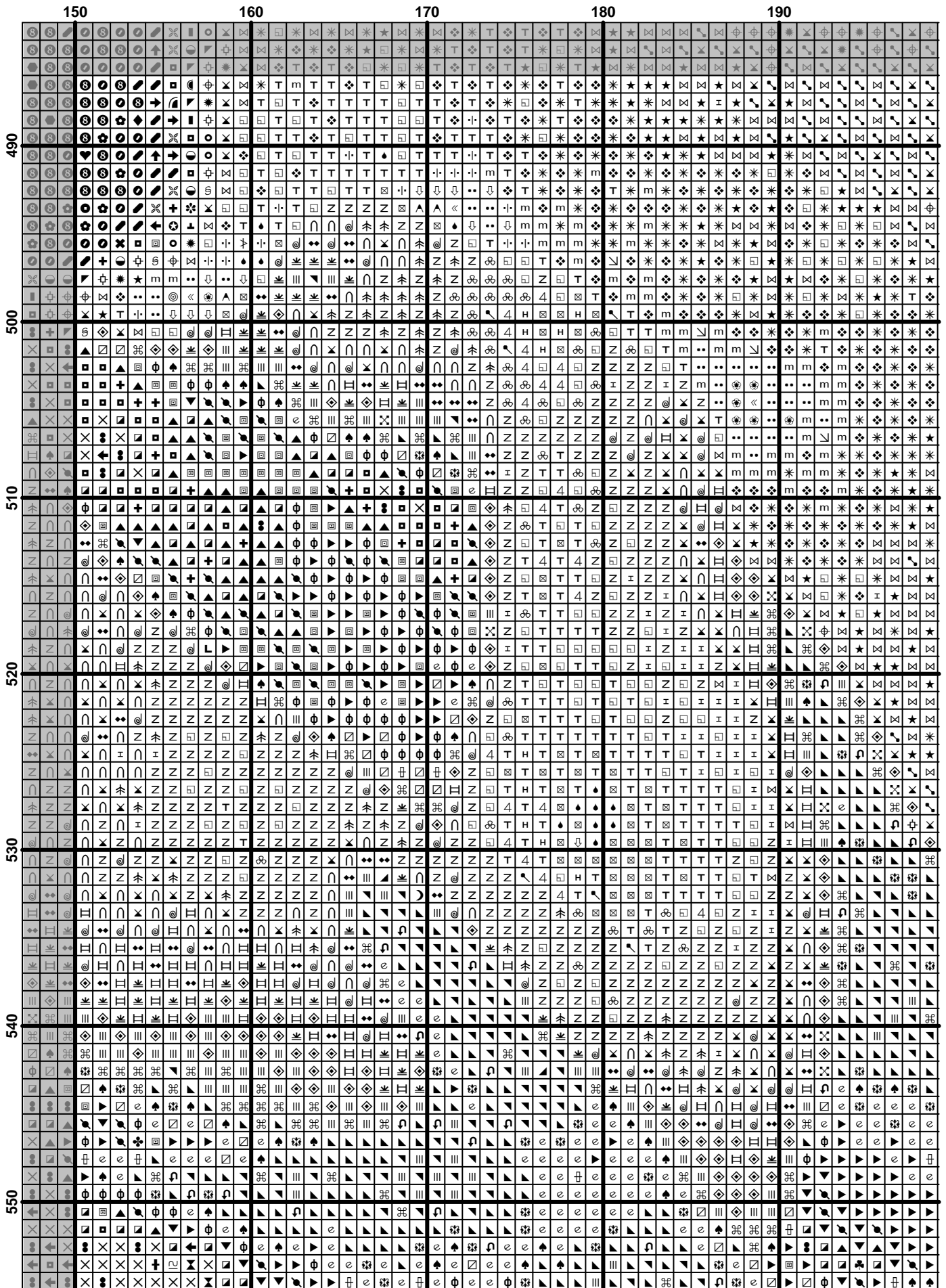
[illegible]

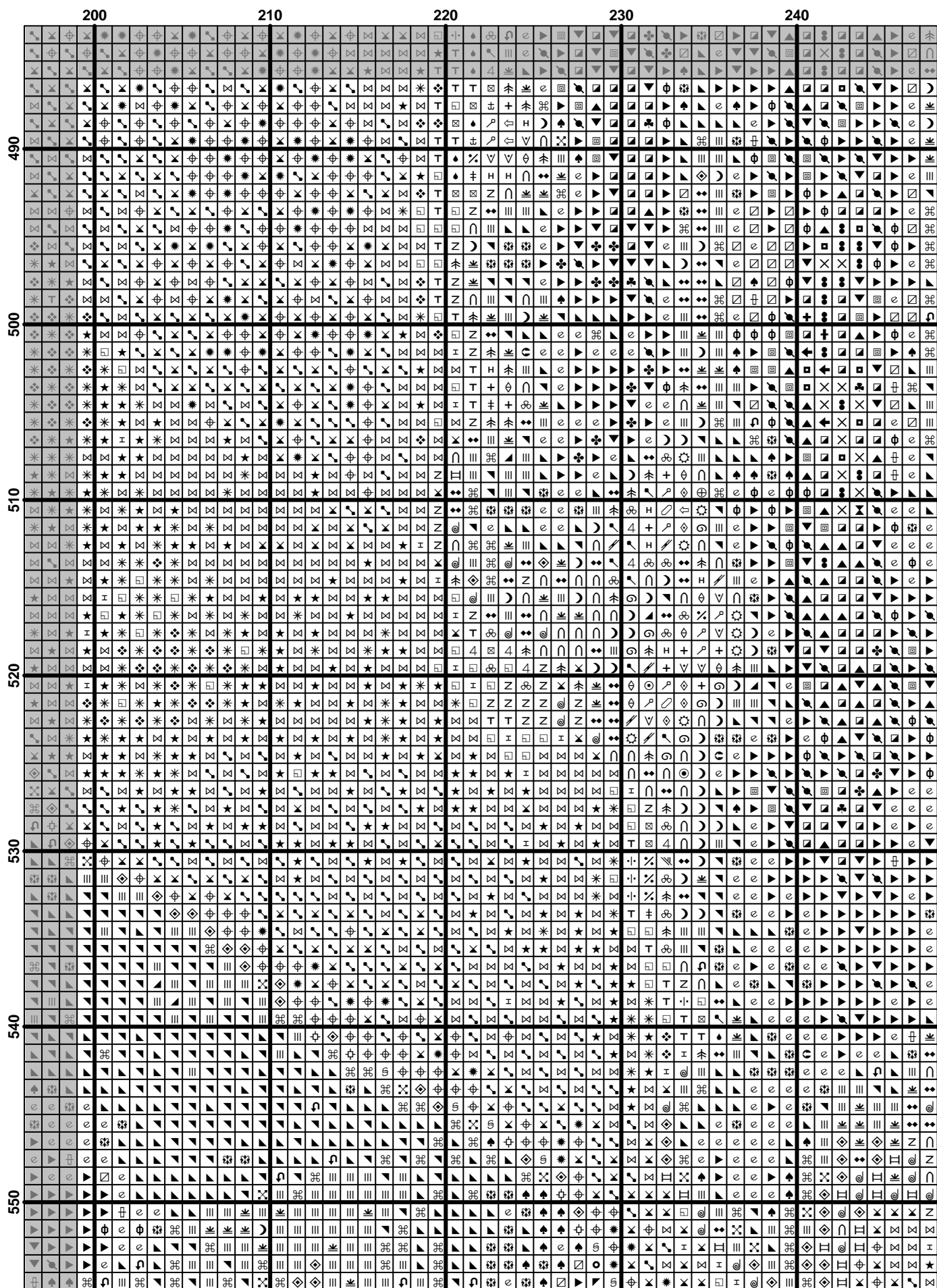


[illegible]

	50	60	70	80	90	100
	4	4	4	4	4	4
	2	2	2	2	2	2
	L	L	L	L	L	L
	2	2	2	2	2	2
490	4	4	4	4	4	4
	2	2	2	2	2	2
	L	L	L	L	L	L
	2	2	2	2	2	2
500	4	4	4	4	4	4
	2	2	2	2	2	2
	L	L	L	L	L	L
	2	2	2	2	2	2
510	4	4	4	4	4	4
	2	2	2	2	2	2
	L	L	L	L	L	L
	2	2	2	2	2	2
520	4	4	4	4	4	4
	2	2	2	2	2	2
	L	L	L	L	L	L
	2	2	2	2	2	2
530	4	4	4	4	4	4
	2	2	2	2	2	2
	L	L	L	L	L	L
	2	2	2	2	2	2
540	4	4	4	4	4	4
	2	2	2	2	2	2
	L	L	L	L	L	L
	2	2	2	2	2	2
550	4	4	4	4	4	4
	2	2	2	2	2	2
	L	L	L	L	L	L
	2	2	2	2	2	2

[illegible]





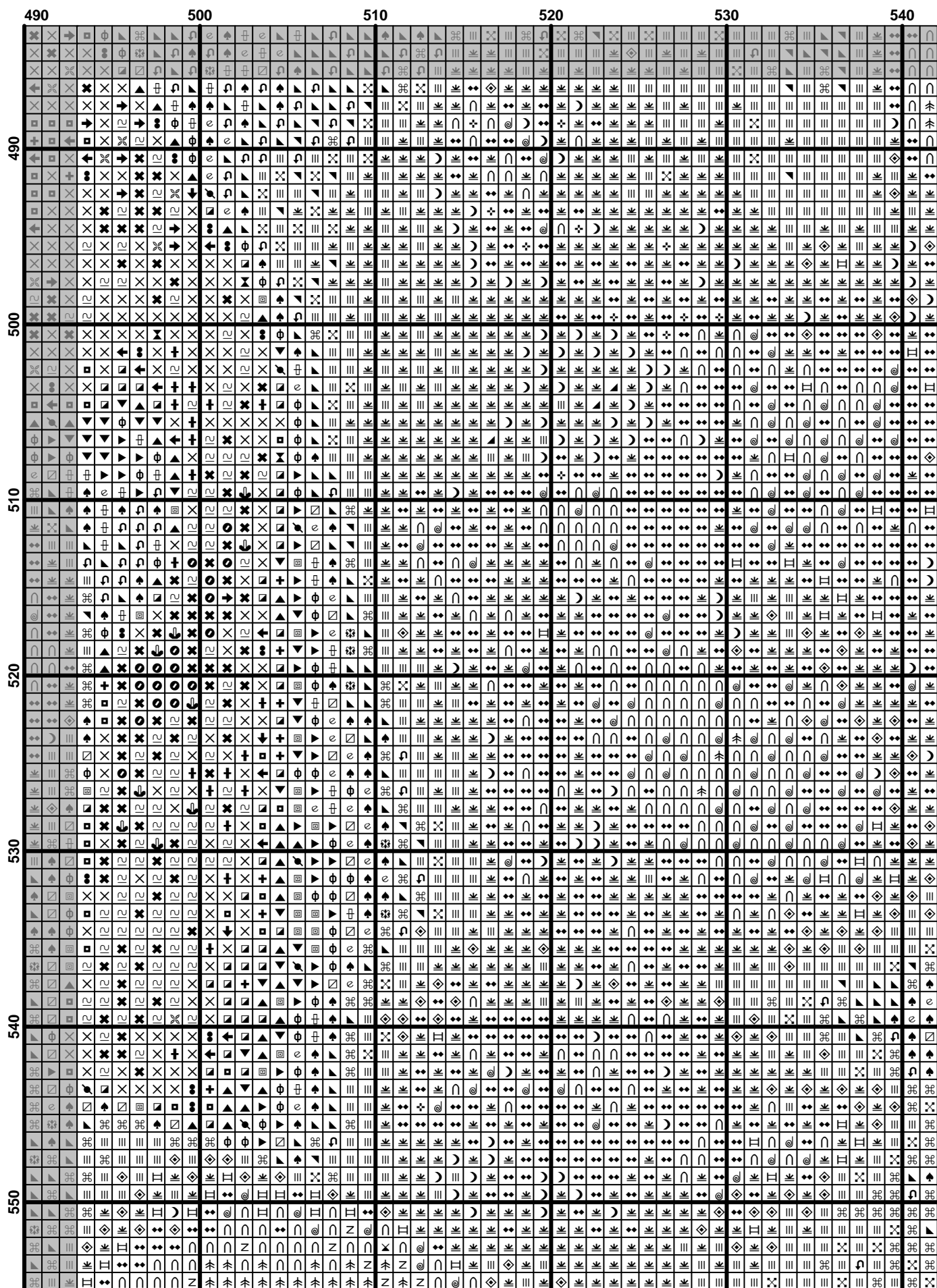
	250	260	270	280	290
490
500
510
520
530
540
550

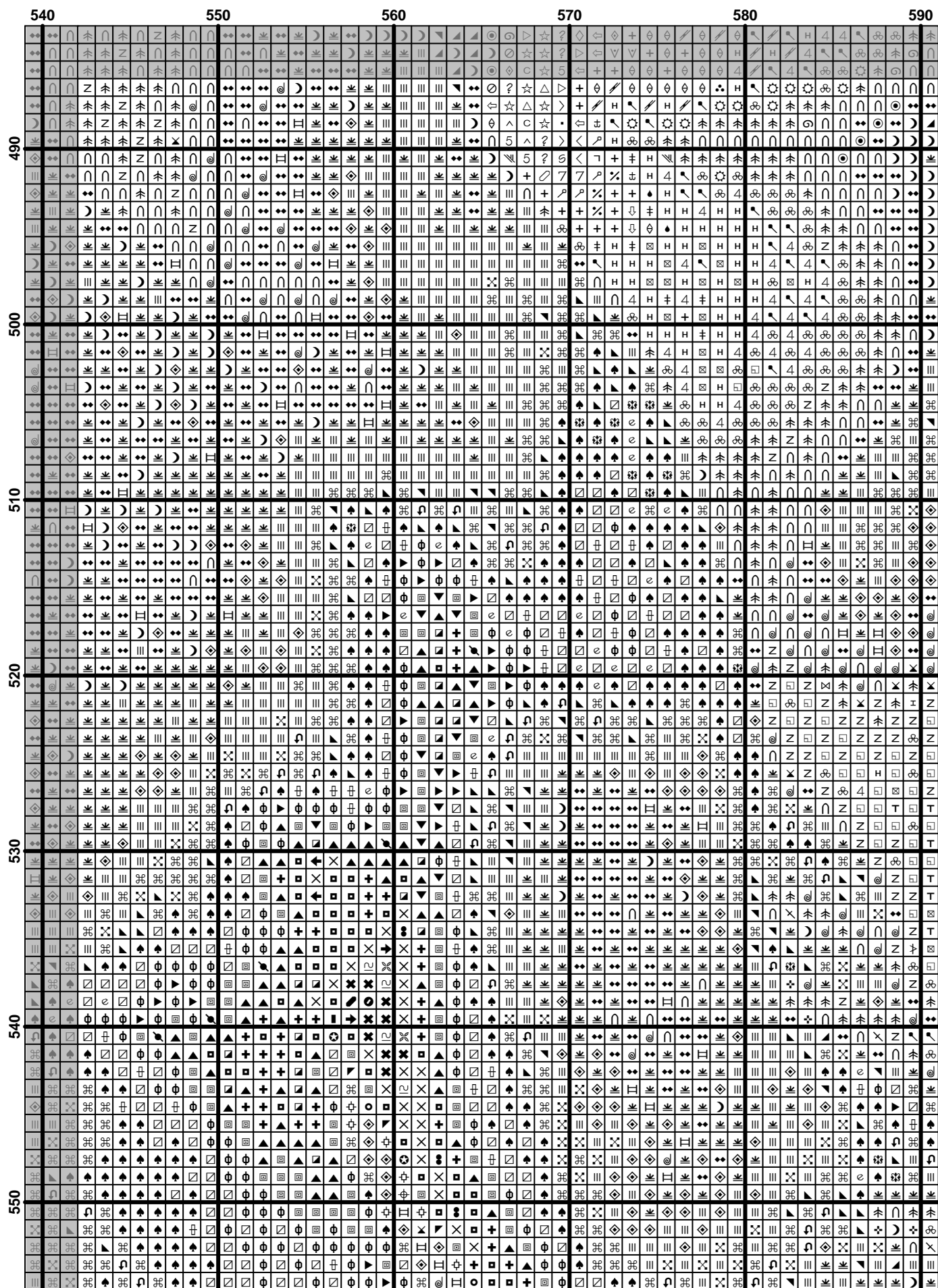
[illegible]

(121)

(122)

(123)





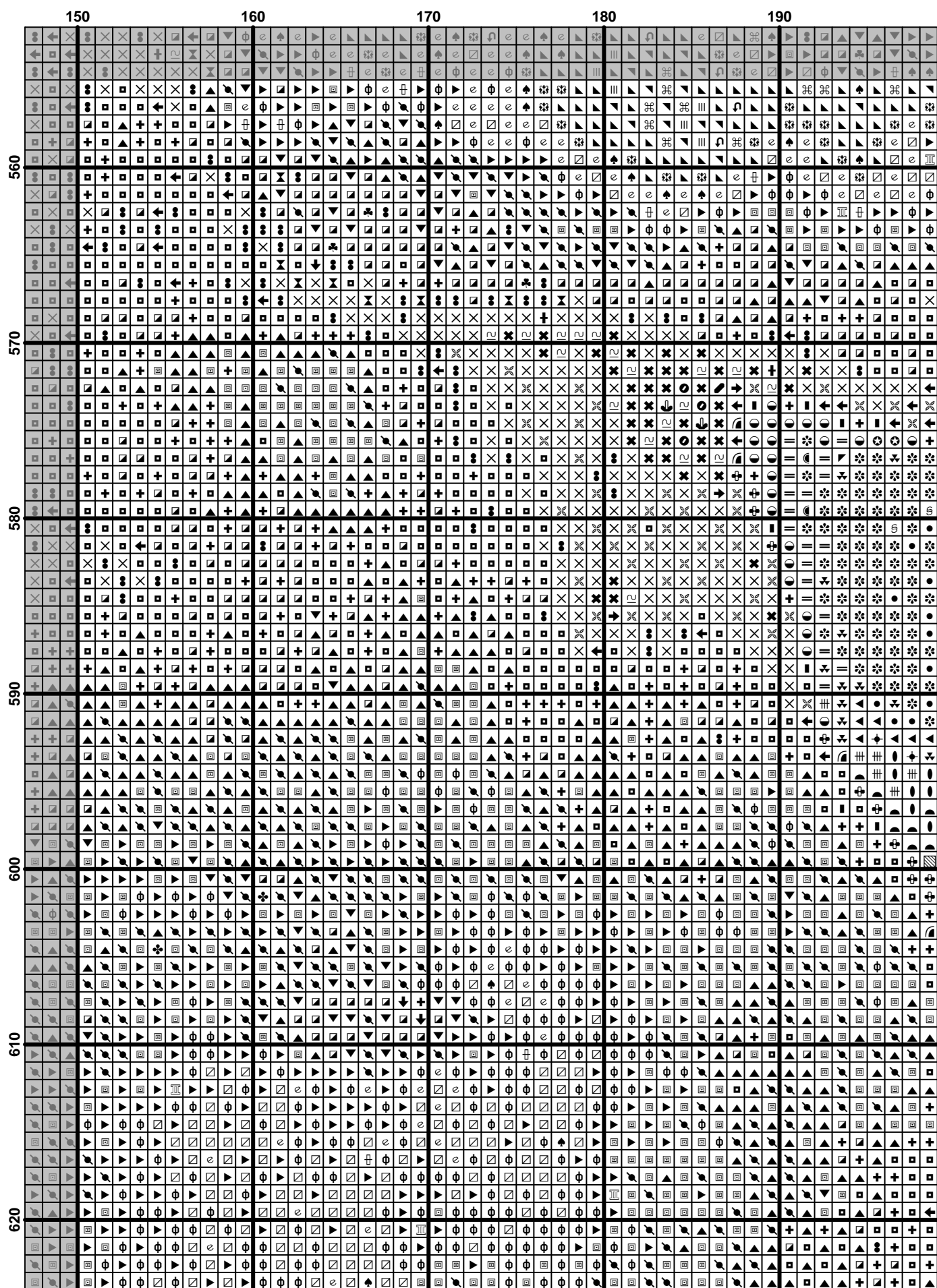
[illegible]

(126)

	10										20										30										40										50									
560	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110
	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130
	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
570	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	3											

	50	60	70	80	90	100
560
570
580
590
600
610
620

	100	110	120	130	140	150
560						
570						
580						
590						
600						
610						
620						



(132)

	250	260	270	280	290
560
570
580
590
600
610
620

[illegible]

$$(134) \quad \text{[The text of equation (134) is not visible in the provided image snippet]} \quad (135)$$

	400	410	420	430	440
560
570
580
590
600
610
620

	450	460	470	480	490
560					
570					
580					
590					
600					
610					
620					

	490	500	510	520	530	540
560						
570						
580						
590						
600						
610						
620						

[illegible]

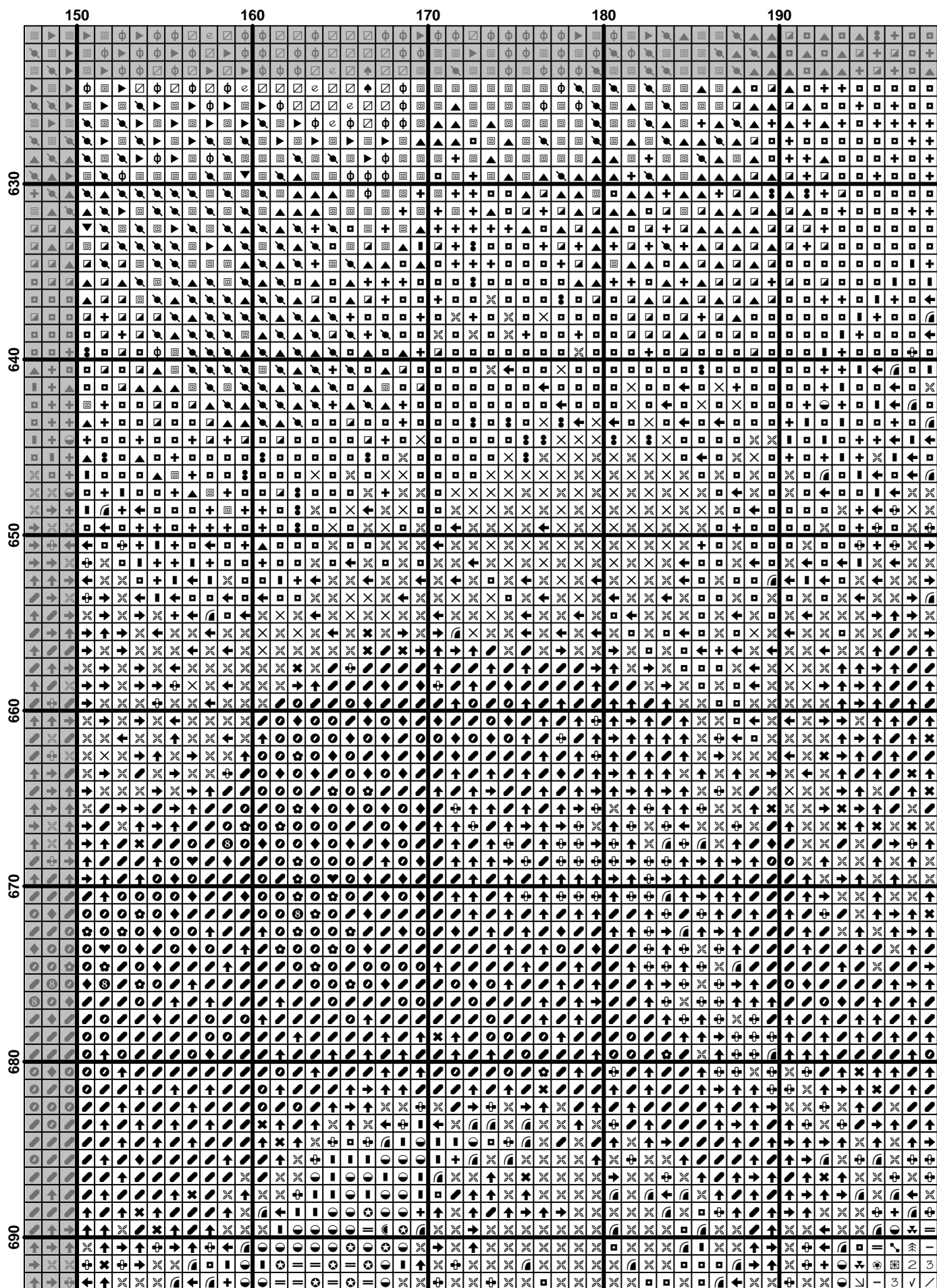
[illegible]

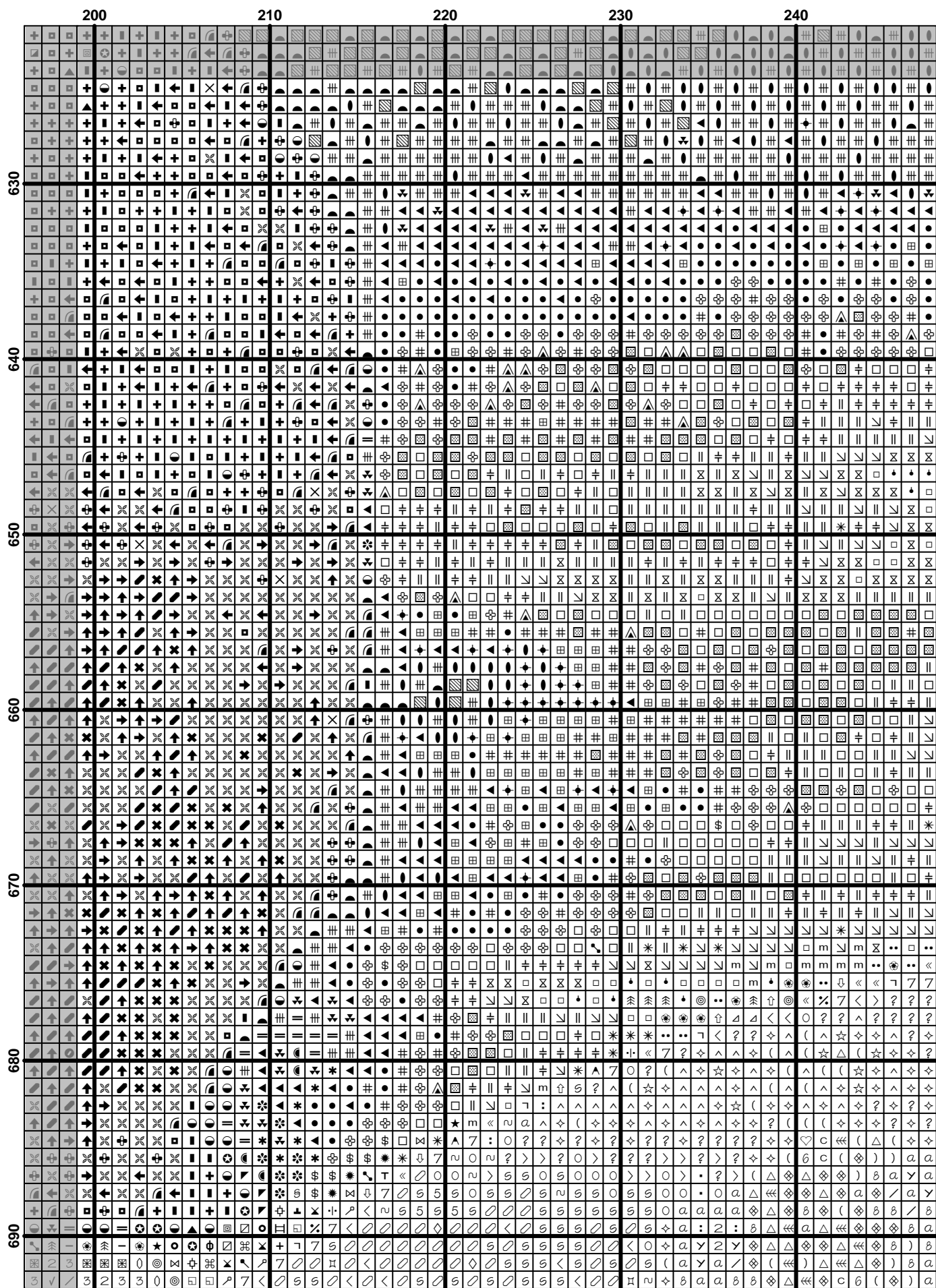
(140)

	10	20	30	40	50
630
640
650
660
670
680
690

	50	60	70	80	90	100
630
640
650
660
670
680
690

	100	110	120	130	140	150
630						
640						
650						
660						
670						
680						
690						



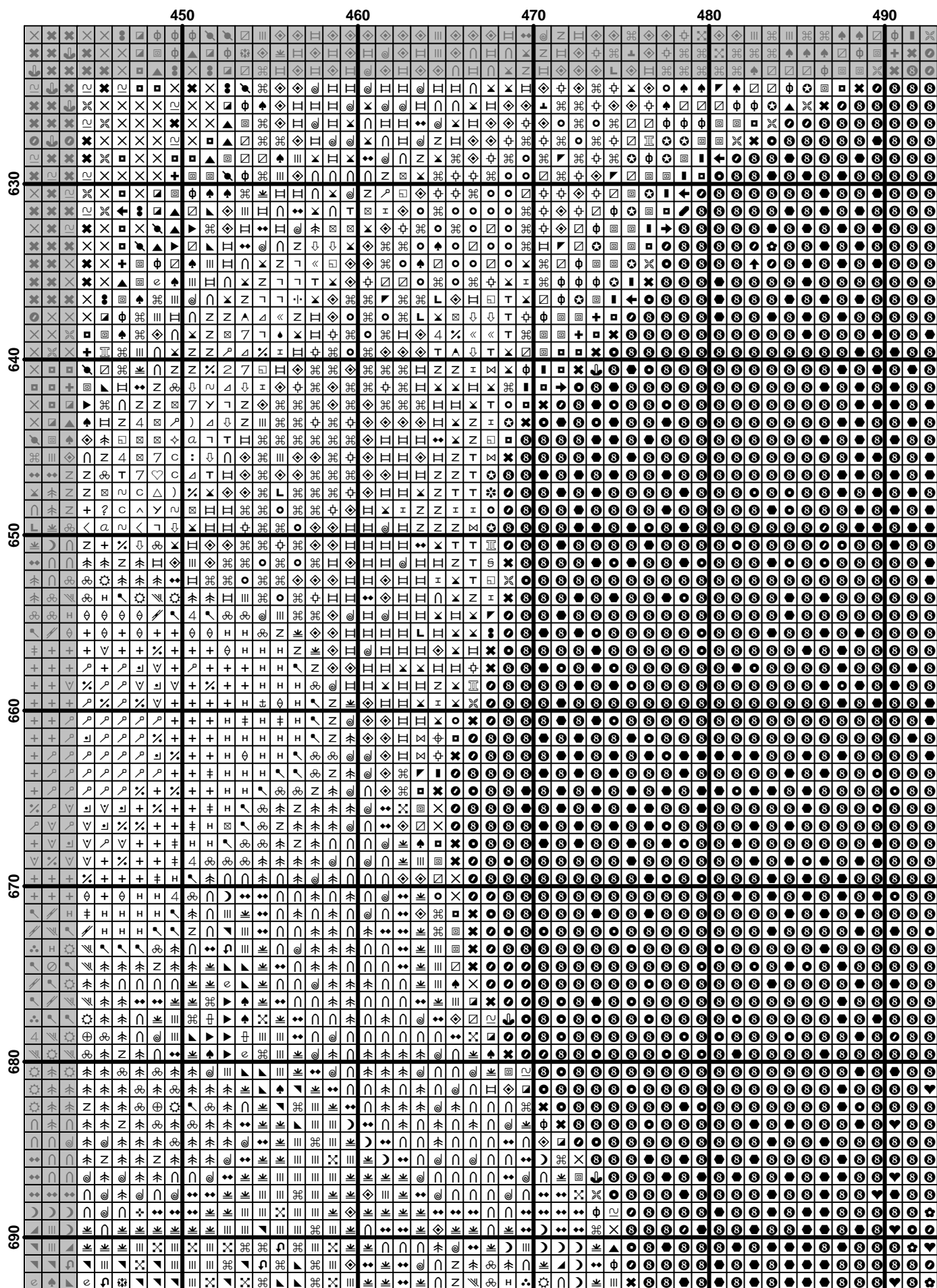


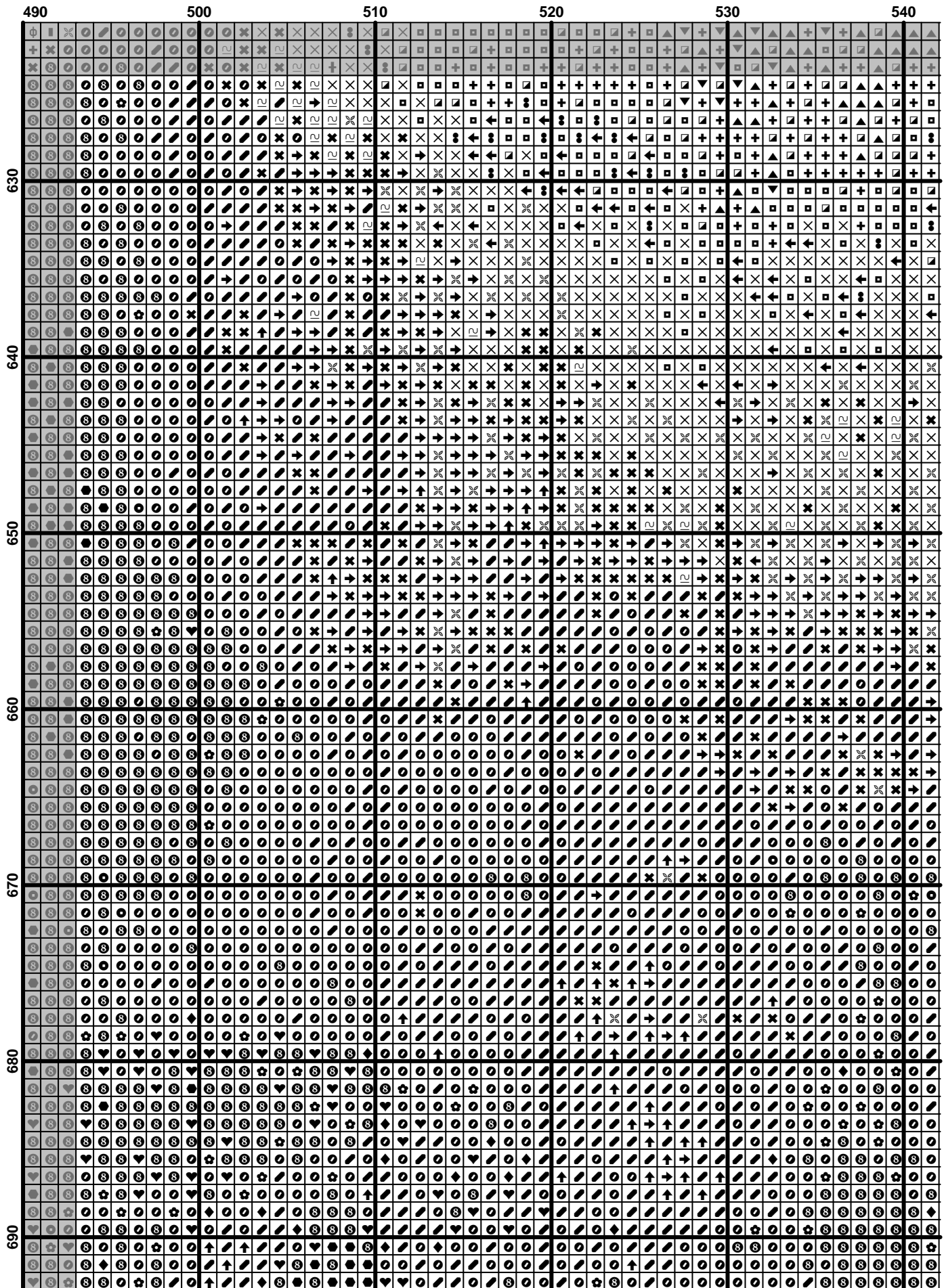
(147)

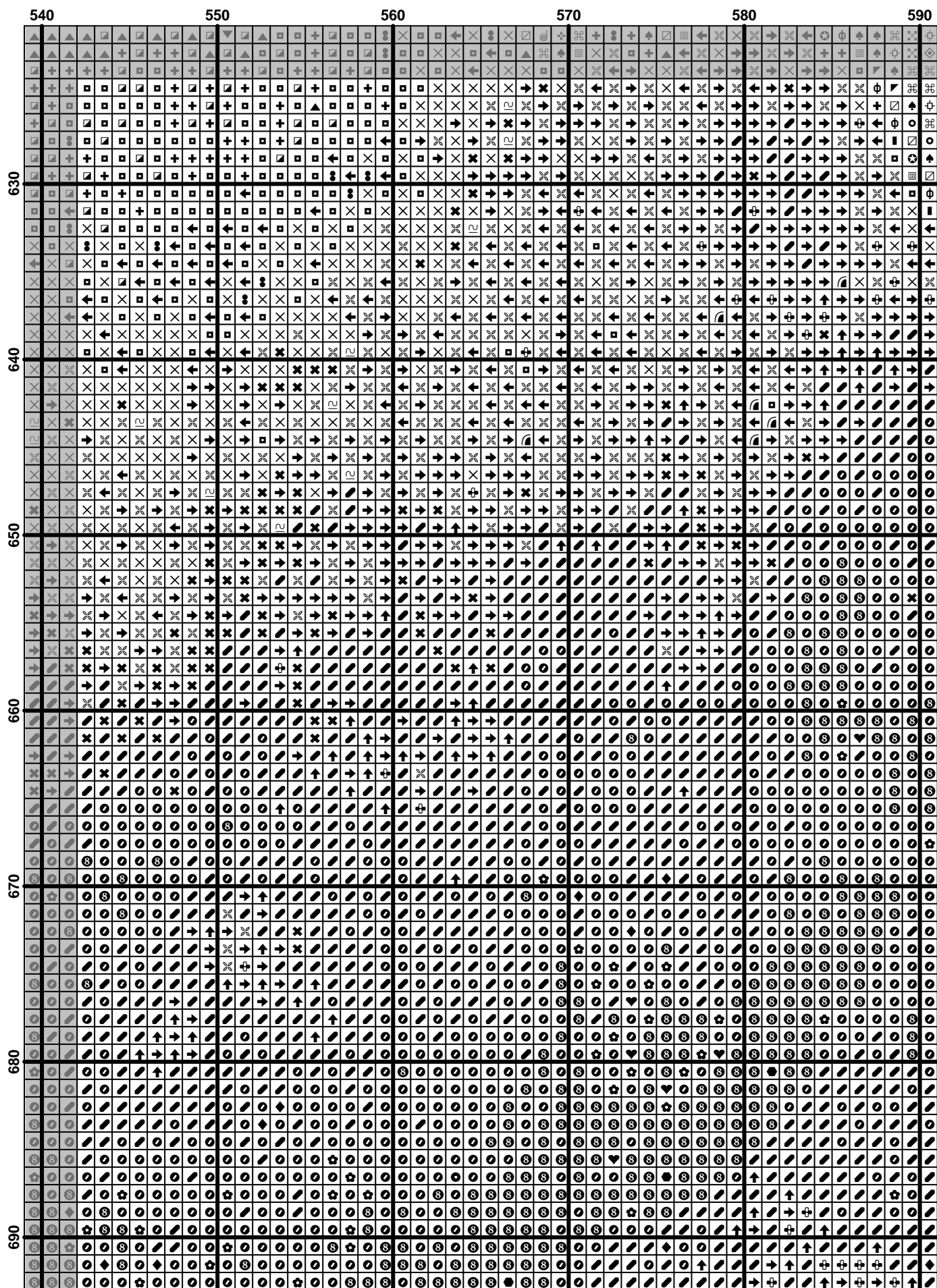
	300	310	320	330	340
630
640
650
660
670
680
690

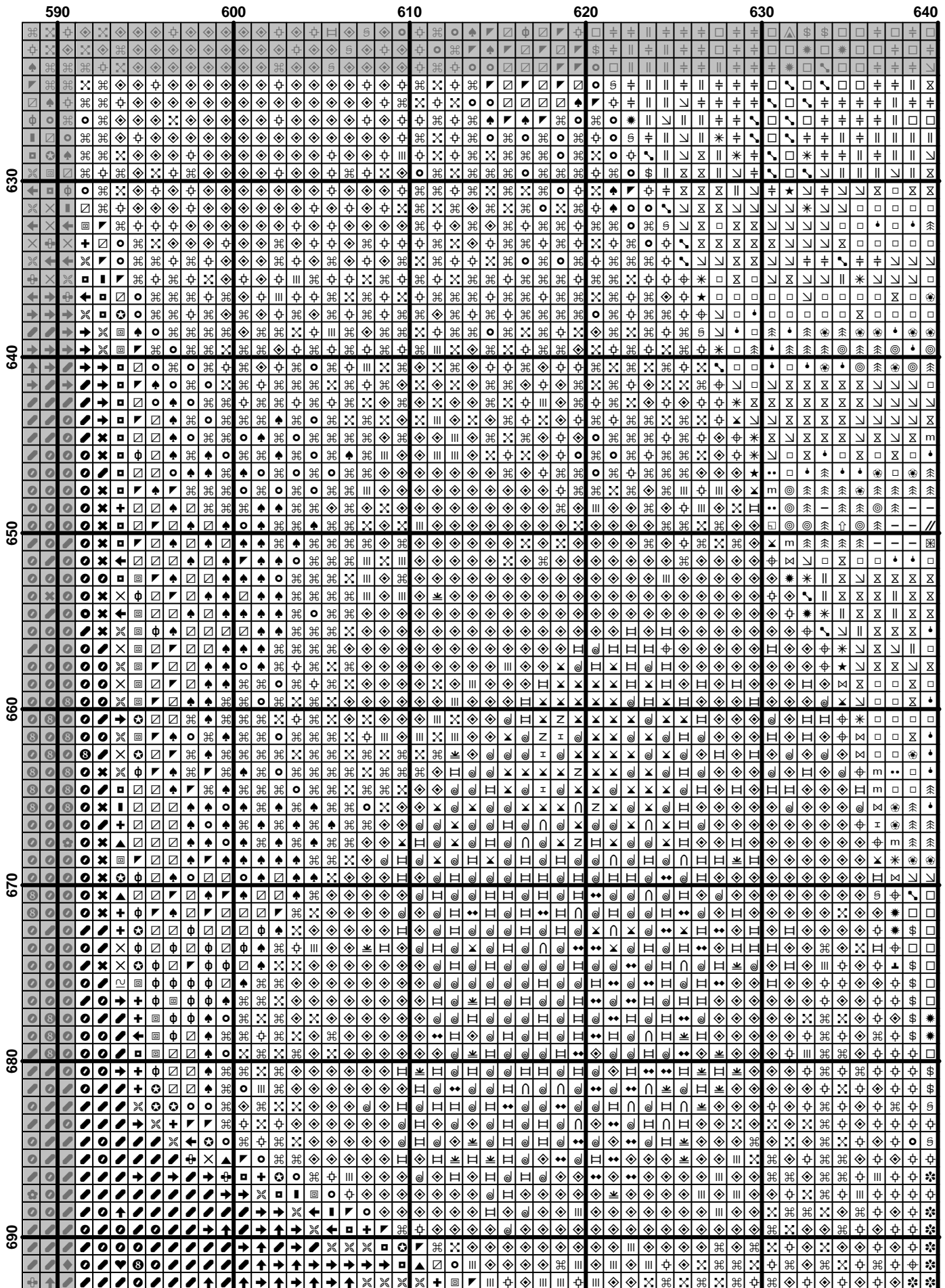
[illegible]

	400	410	420	430	440
630
640
650
660
670
680
690

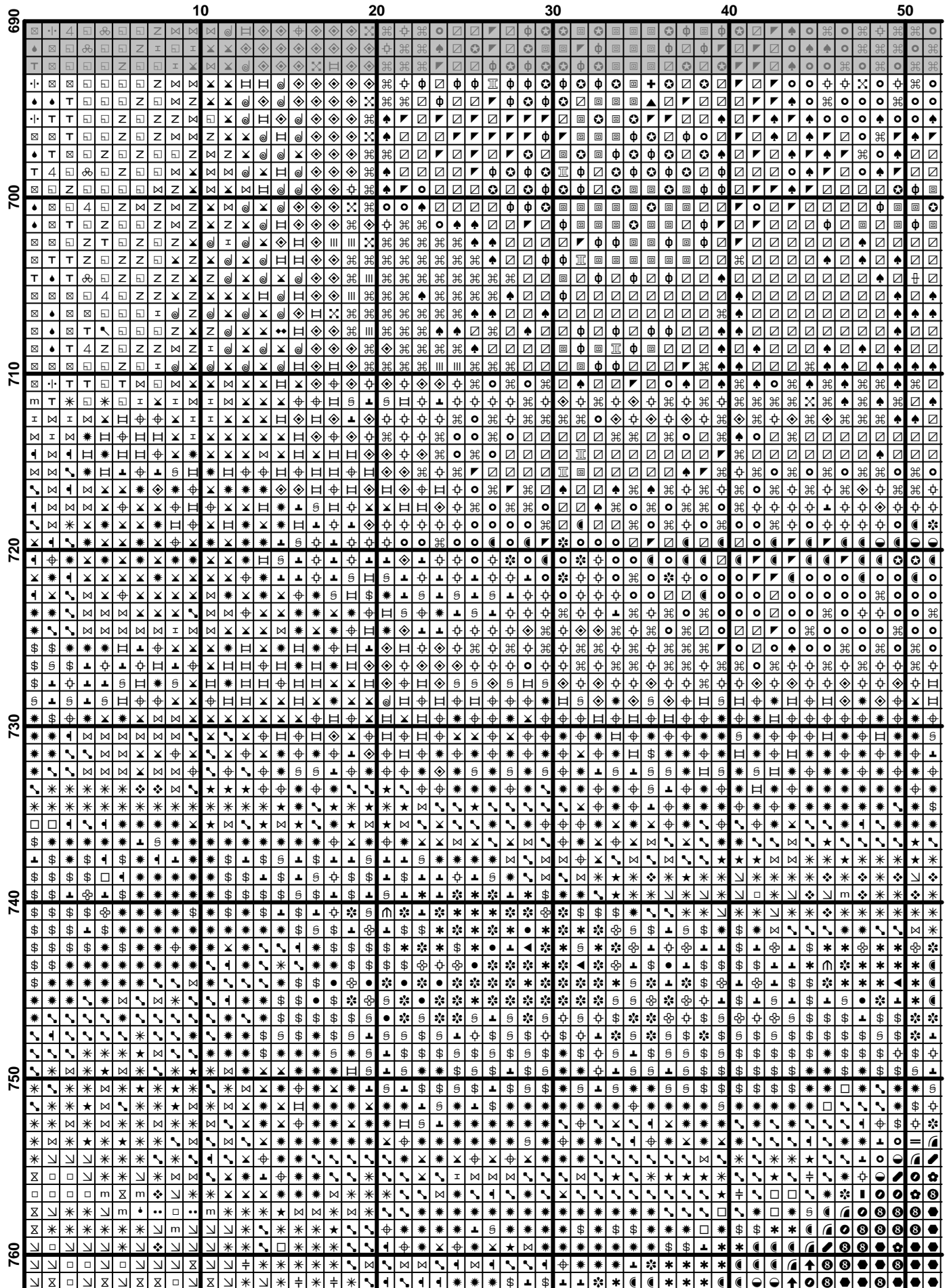


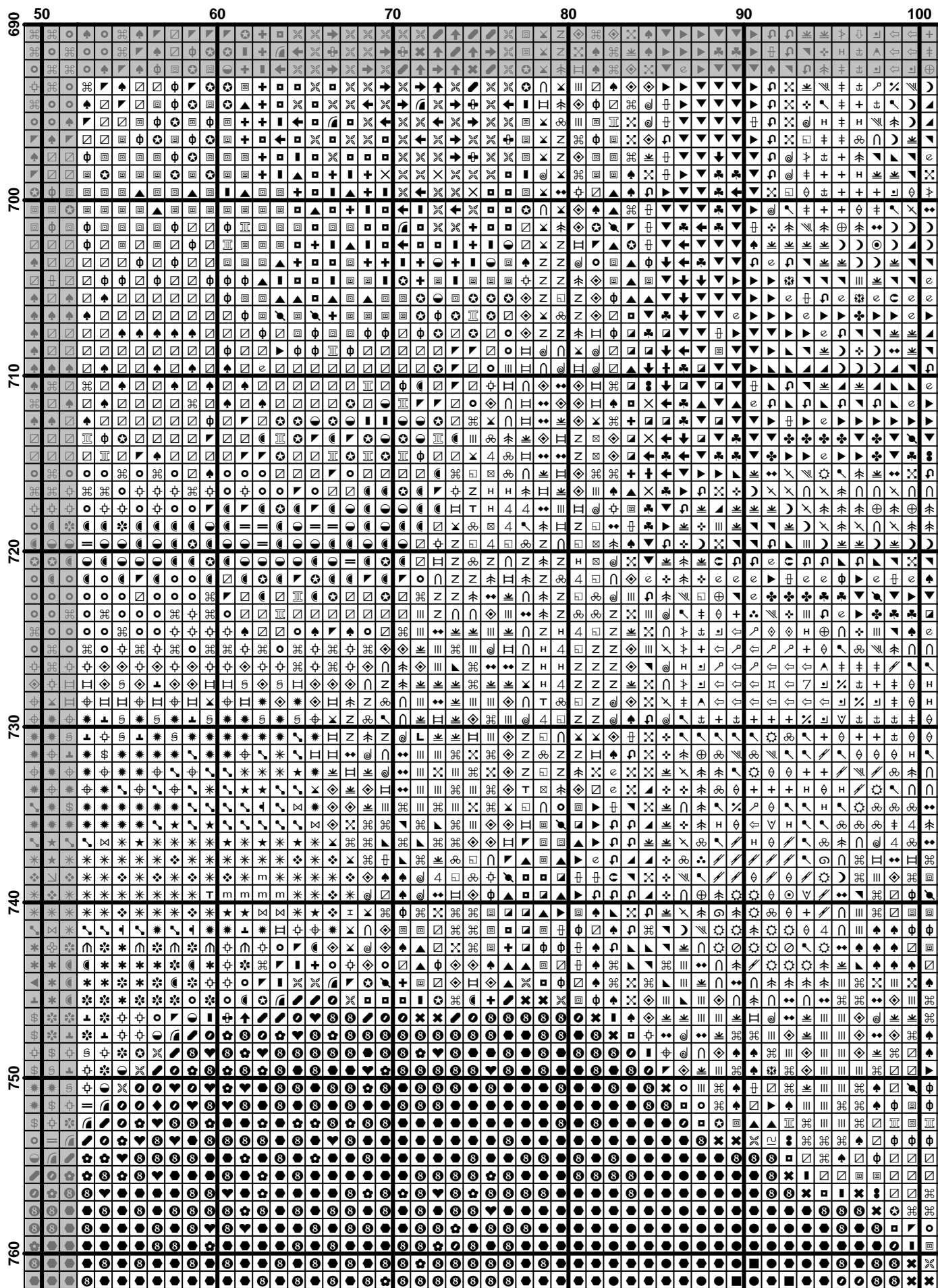






(154)





	100	110	120	130	140	150
690	↑	↑	↑	↑	↑	↑
700	↑	↑	↑	↑	↑	↑
710	↑	↑	↑	↑	↑	↑
720	↑	↑	↑	↑	↑	↑
730	↑	↑	↑	↑	↑	↑
740	↑	↑	↑	↑	↑	↑
750	↑	↑	↑	↑	↑	↑
760	↑	↑	↑	↑	↑	↑

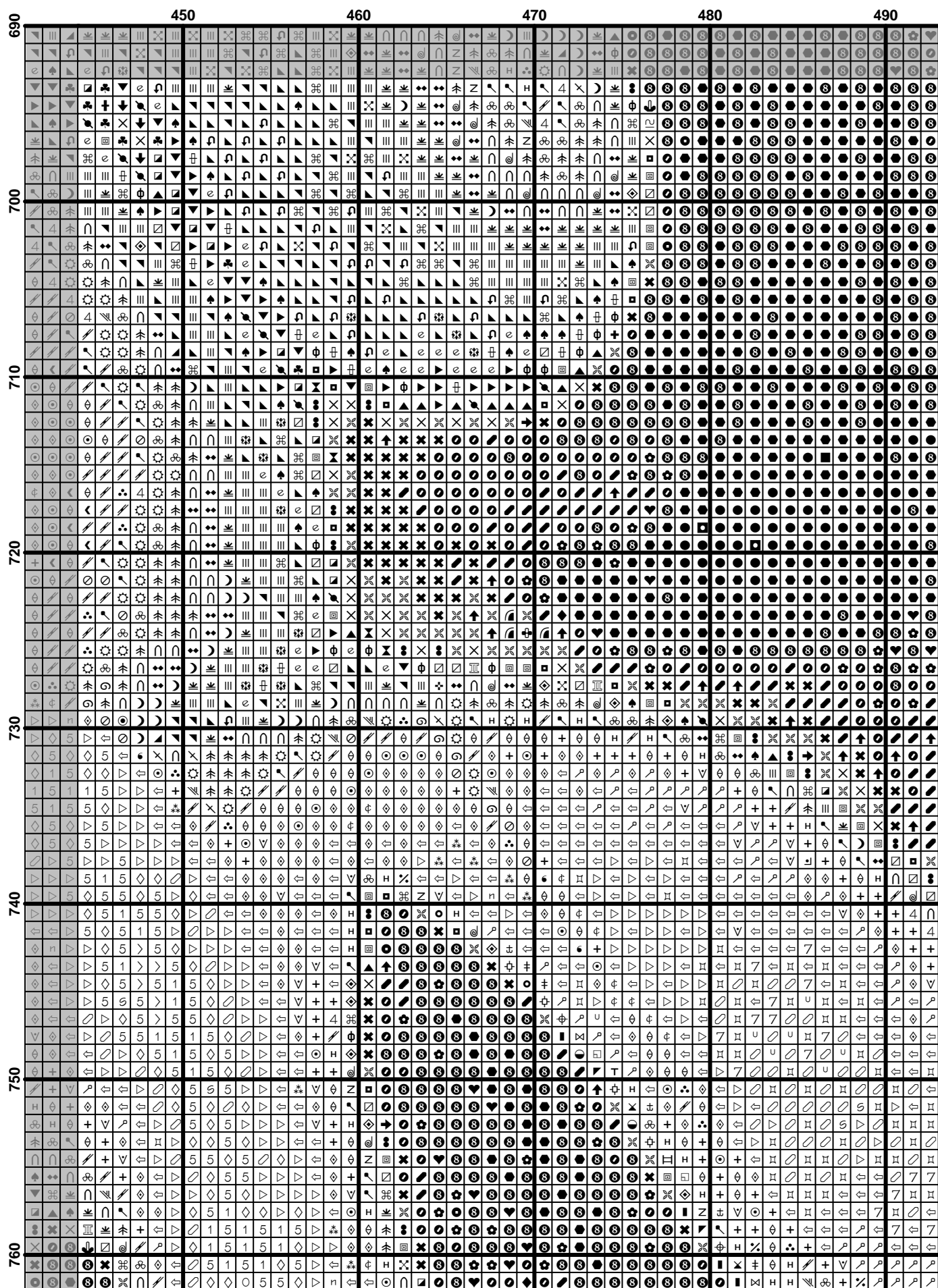
(159)

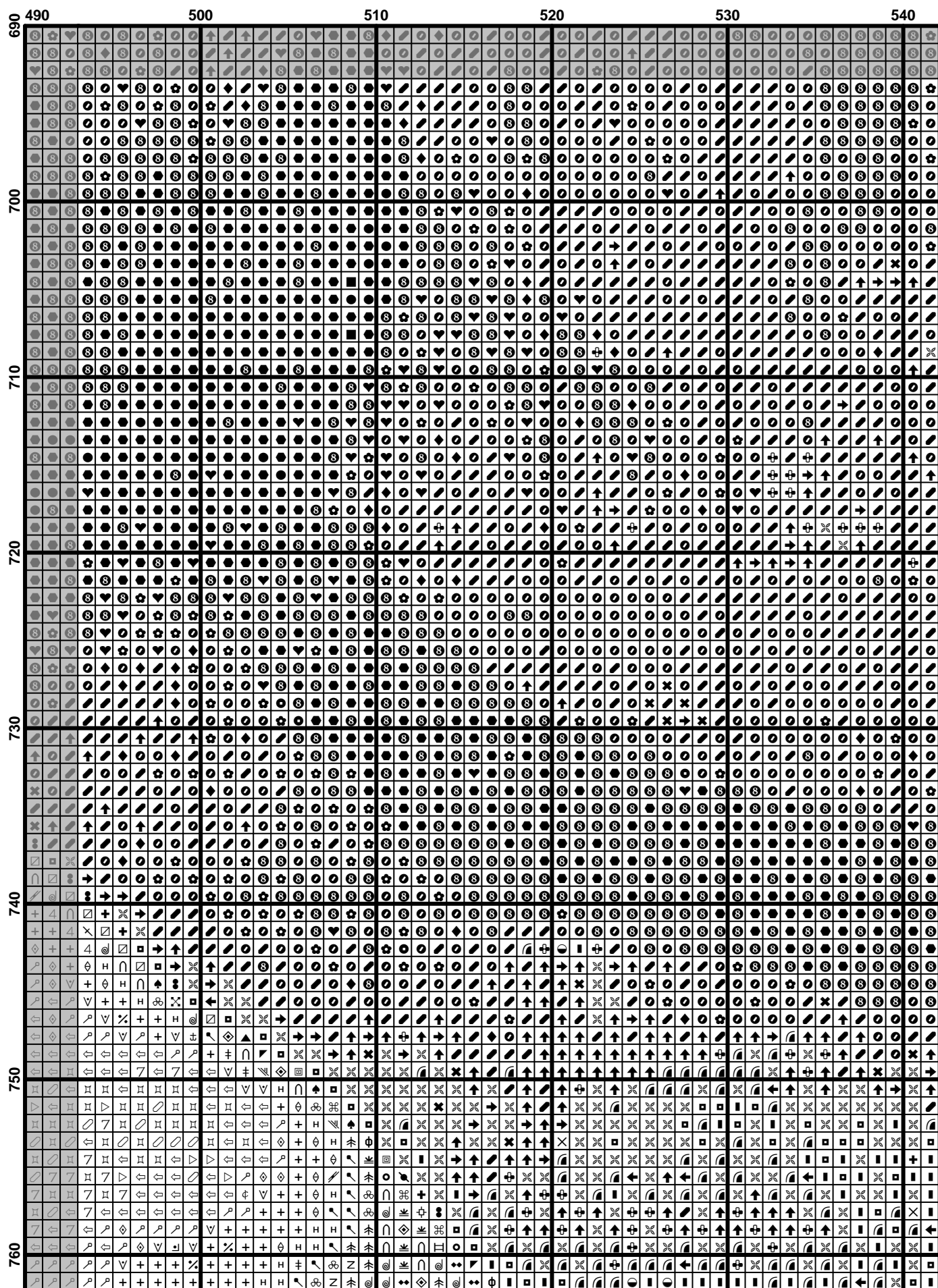
	200	210	220	230	240
690
700
710
720
730
740
750
760

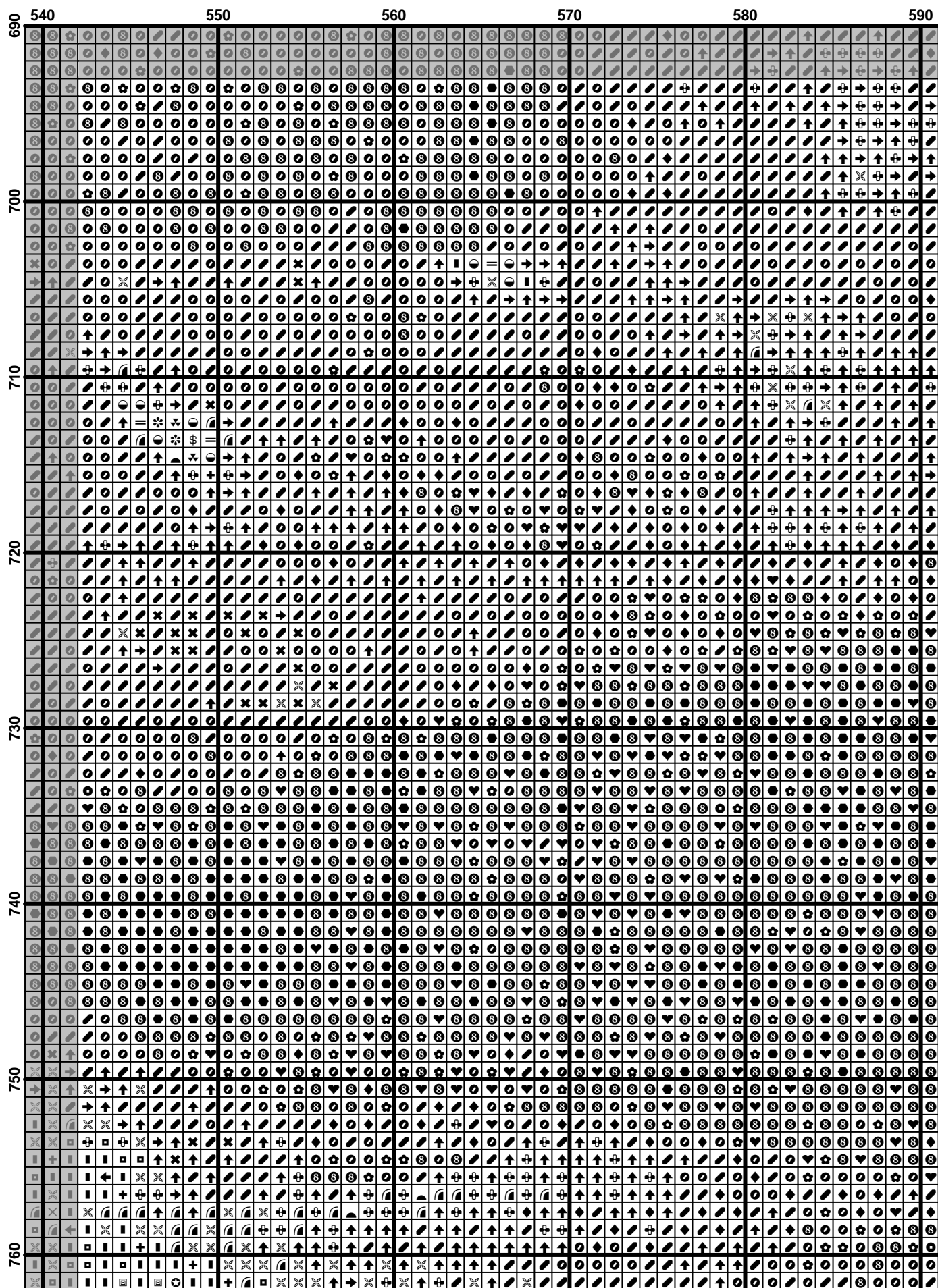
	250	260	270	280	290
690	8	8	8	8	8
700	8	8	8	8	8
710	8	8	8	8	8
720	8	8	8	8	8
730	8	8	8	8	8
740	8	8	8	8	8
750	8	8	8	8	8
760	8	8	8	8	8

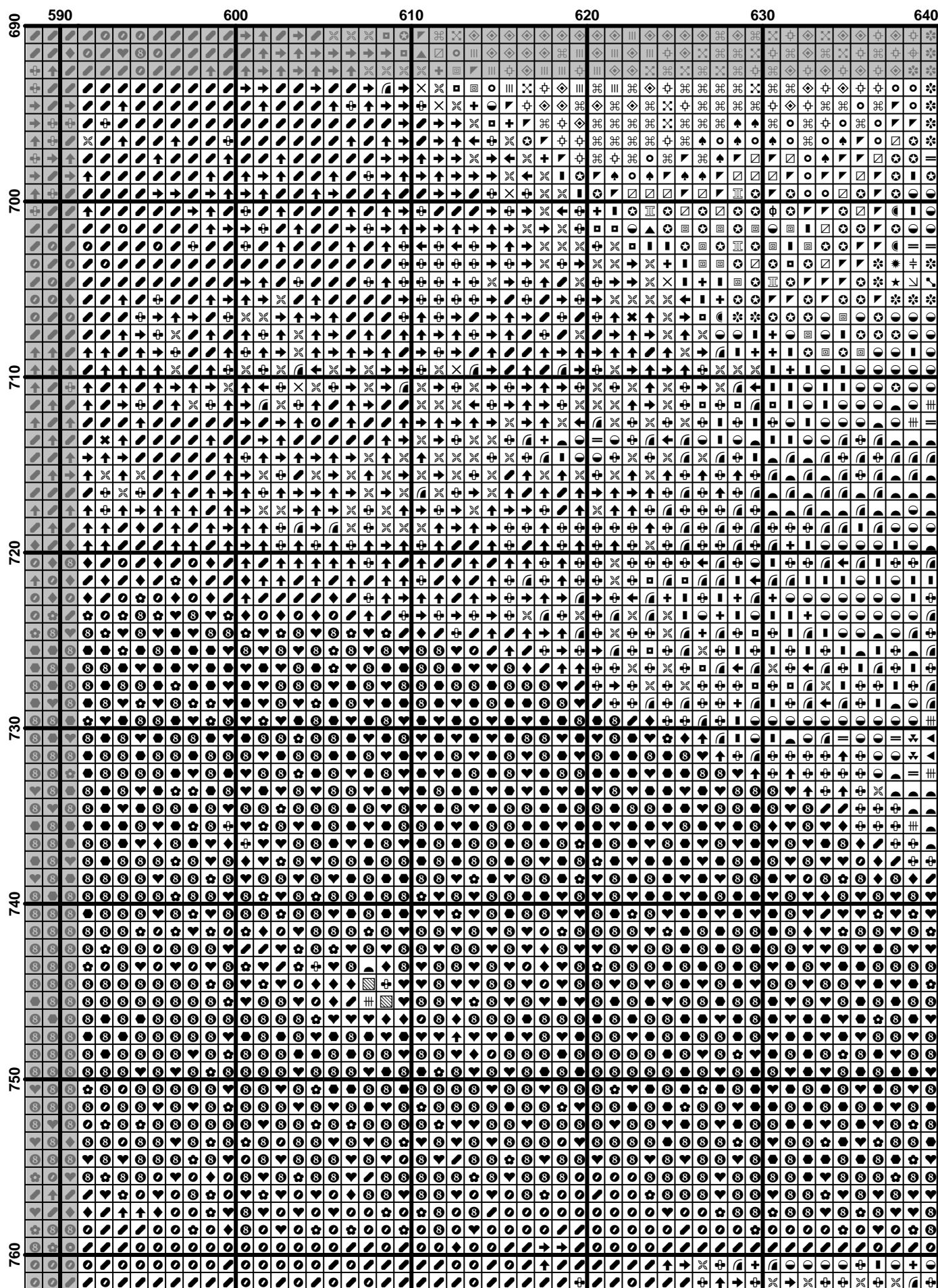
(163)

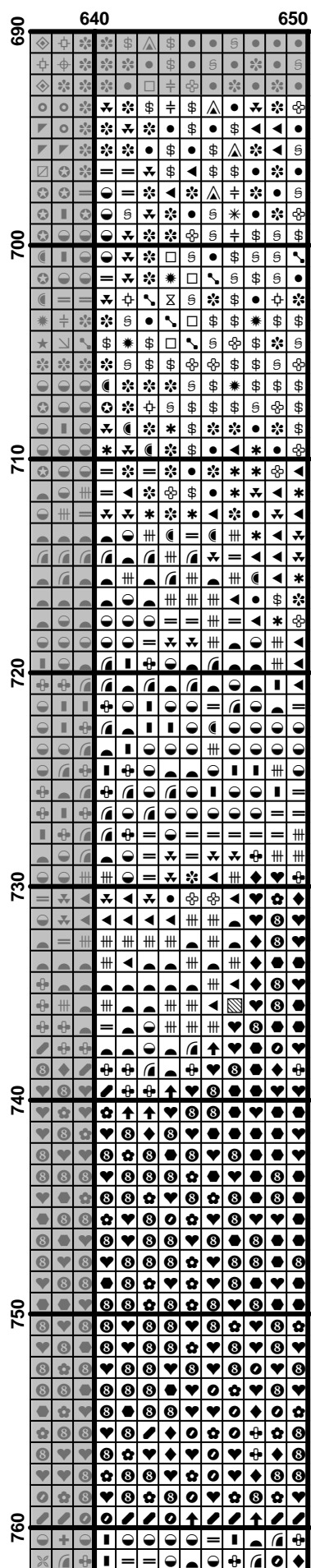
	400	410	420	430	440
690					
700					
710					
720					
730					
740					
750					
760					

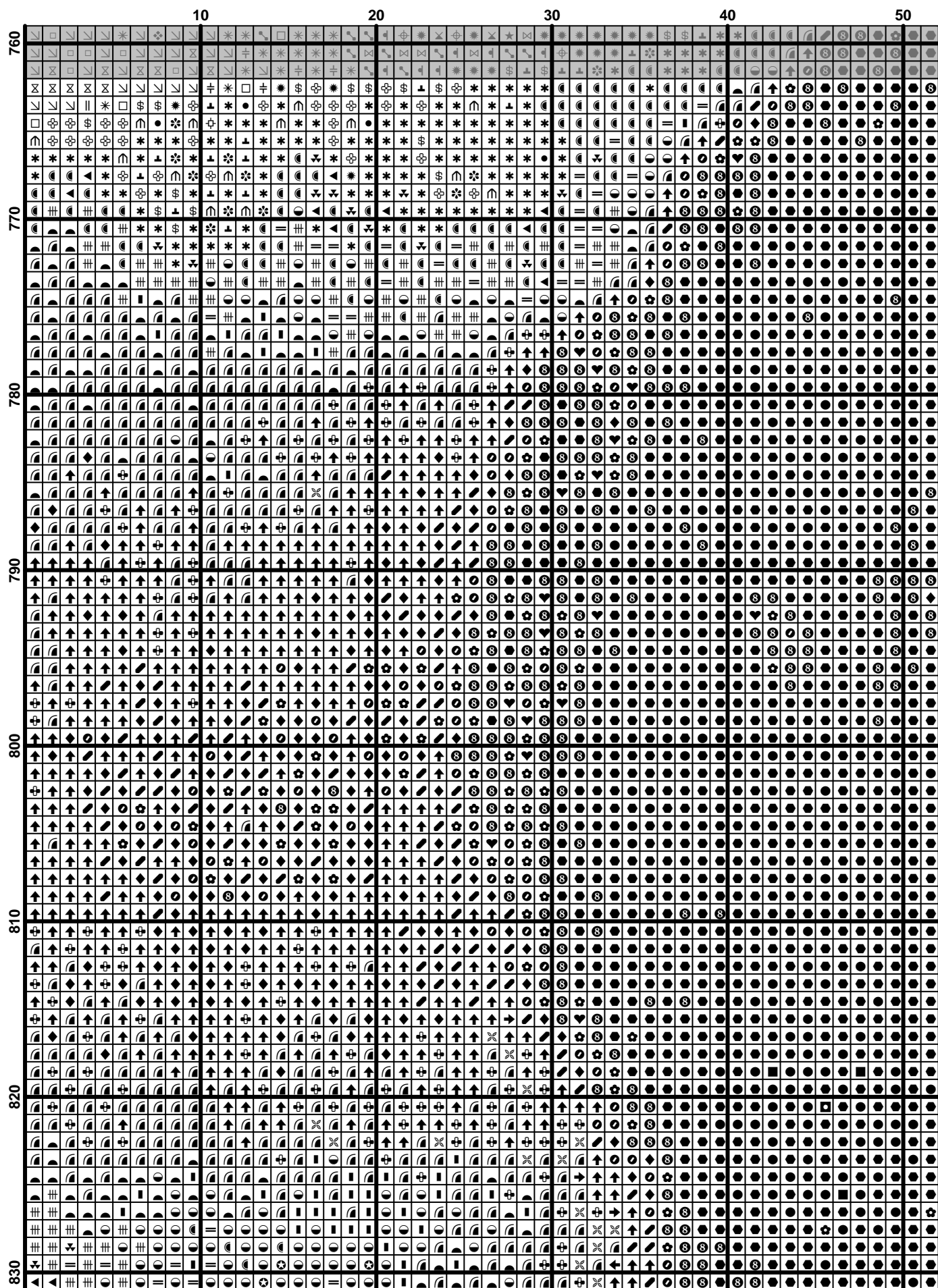


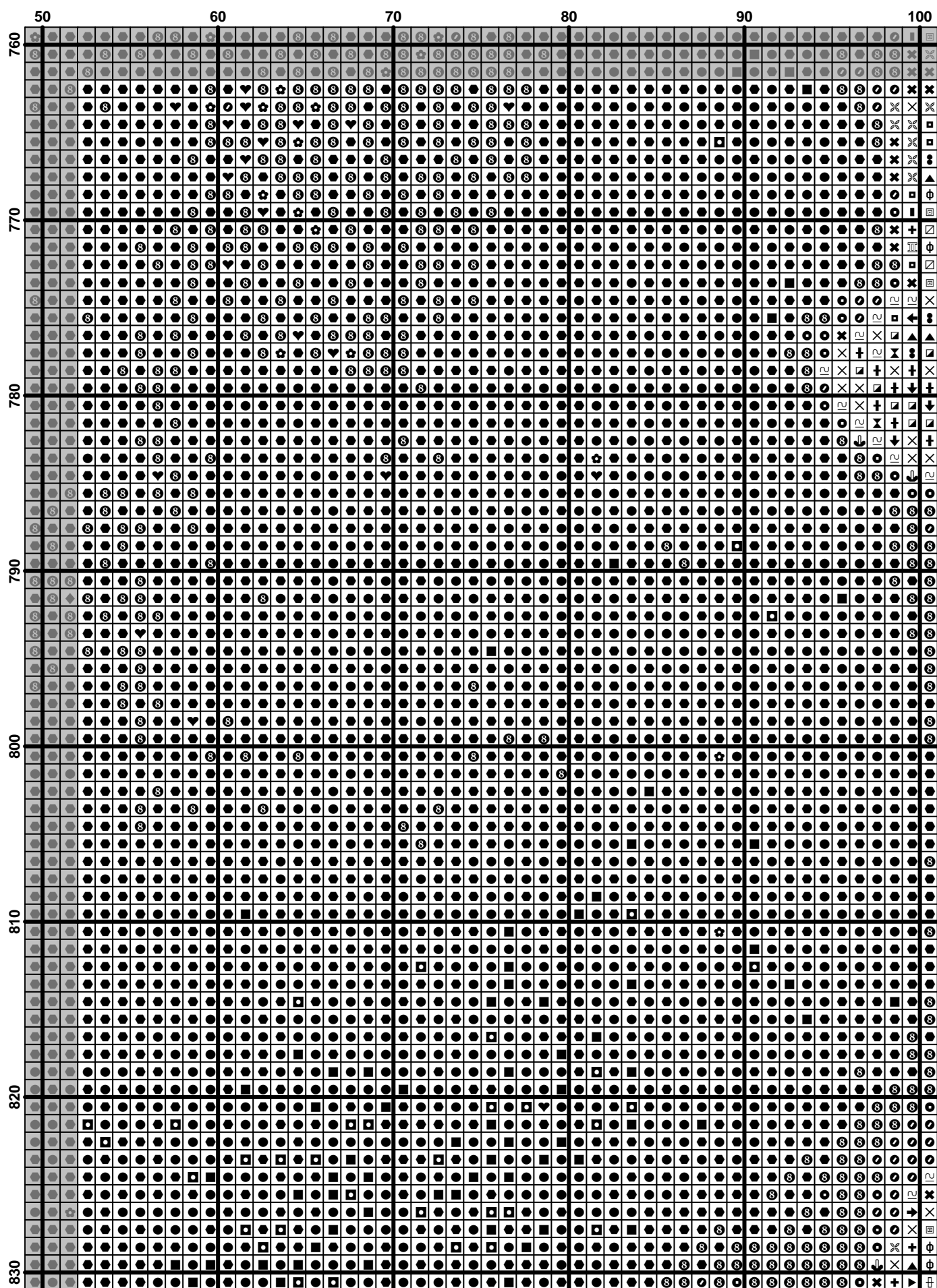


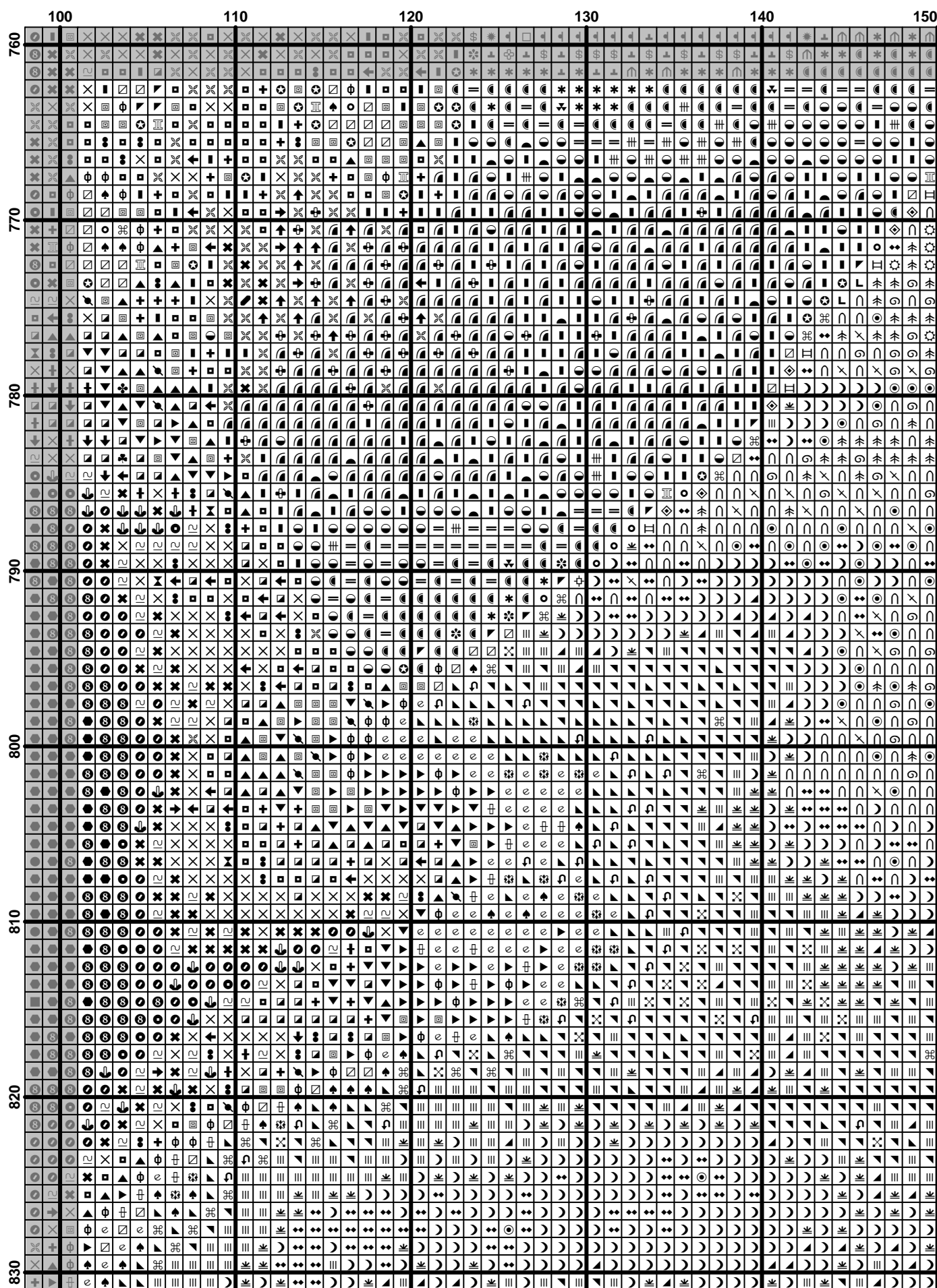












	150	160	170	180	190
760	♂	♂	♂	♂	♂
761	♂	♂	♂	♂	♂
762	♂	♂	♂	♂	♂
763	♂	♂	♂	♂	♂
764	♂	♂	♂	♂	♂
765	♂	♂	♂	♂	♂
766	♂	♂	♂	♂	♂
767	♂	♂	♂	♂	♂
768	♂	♂	♂	♂	♂
769	♂	♂	♂	♂	♂
770	♂	♂	♂	♂	♂
771	♂	♂	♂	♂	♂
772	♂	♂	♂	♂	♂
773	♂	♂	♂	♂	♂
774	♂	♂	♂	♂	♂
775	♂	♂	♂	♂	♂
776	♂	♂	♂	♂	♂
777	♂	♂	♂	♂	♂
778	♂	♂	♂	♂	♂
779	♂	♂	♂	♂	♂
780	♂	♂	♂	♂	♂
781	♂	♂	♂	♂	♂
782	♂	♂	♂	♂	♂
783	♂	♂	♂	♂	♂
784	♂	♂	♂	♂	♂
785	♂	♂	♂	♂	♂
786	♂	♂	♂	♂	♂
787	♂	♂	♂	♂	♂
788	♂	♂	♂	♂	♂
789	♂	♂	♂	♂	♂
790	♂	♂	♂	♂	♂
791	♂	♂	♂	♂	♂
792	♂	♂	♂	♂	♂
793	♂	♂	♂	♂	♂
794	♂	♂	♂	♂	♂
795	♂	♂	♂	♂	♂
796	♂	♂	♂	♂	♂
797	♂	♂	♂	♂	♂
798	♂	♂	♂	♂	♂
799	♂	♂	♂	♂	♂
800	♂	♂	♂	♂	♂
801	♂	♂	♂	♂	♂
802	♂	♂	♂	♂	♂
803	♂	♂	♂	♂	♂
804	♂	♂	♂	♂	♂
805	♂	♂	♂	♂	♂
806	♂	♂	♂	♂	♂
807	♂	♂	♂	♂	♂
808	♂	♂	♂	♂	♂
809	♂	♂	♂	♂	♂
810	♂	♂	♂	♂	♂
811	♂	♂	♂	♂	♂
812	♂	♂	♂	♂	♂
813	♂	♂	♂	♂	♂
814	♂	♂	♂	♂	♂
815	♂	♂	♂	♂	♂
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819	♂	♂	♂	♂	♂
820	♂	♂	♂	♂	♂
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824	♂	♂	♂	♂	♂
825	♂	♂	♂	♂	♂
826	♂	♂	♂	♂	♂
827	♂	♂	♂	♂	♂
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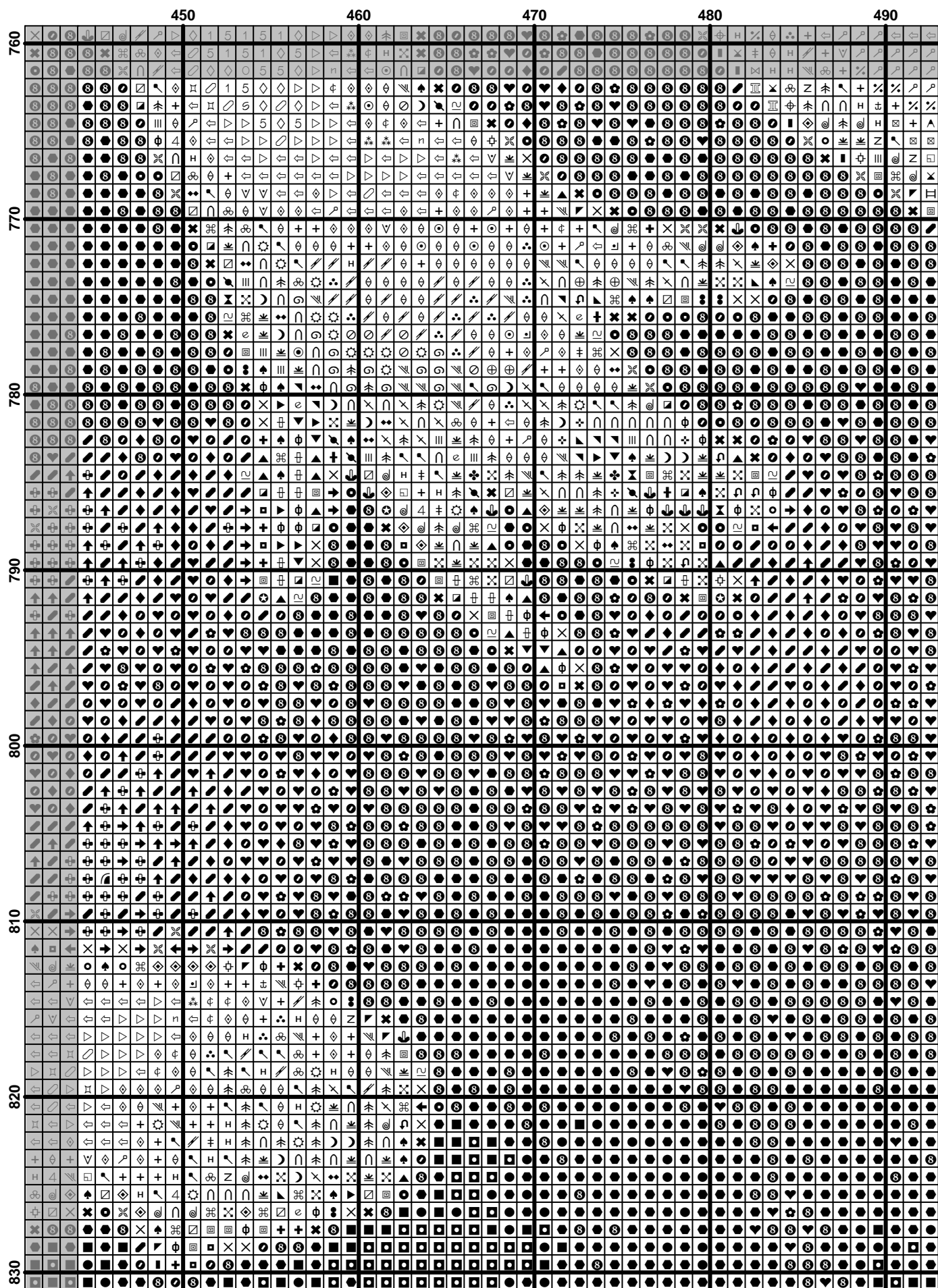
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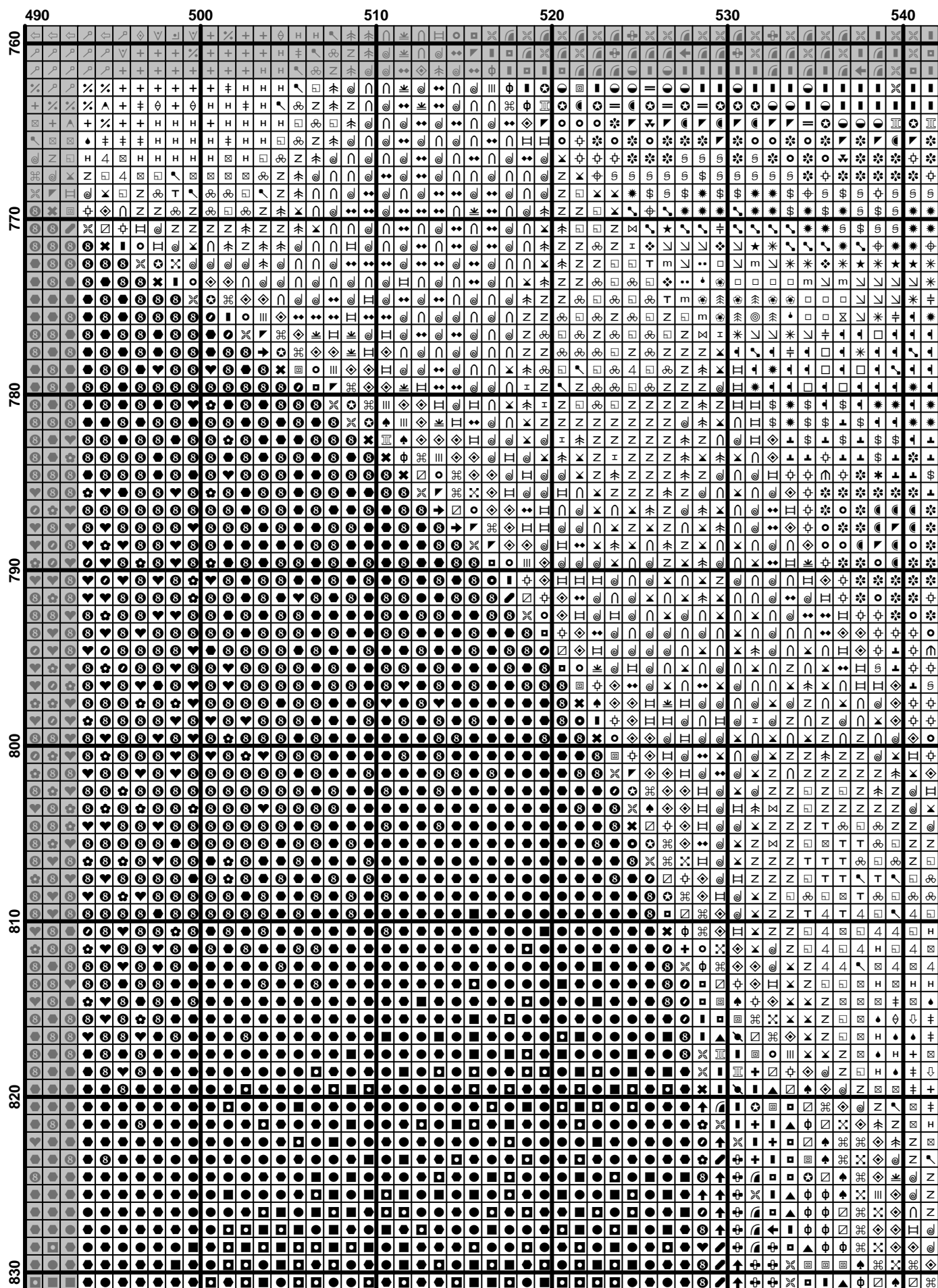
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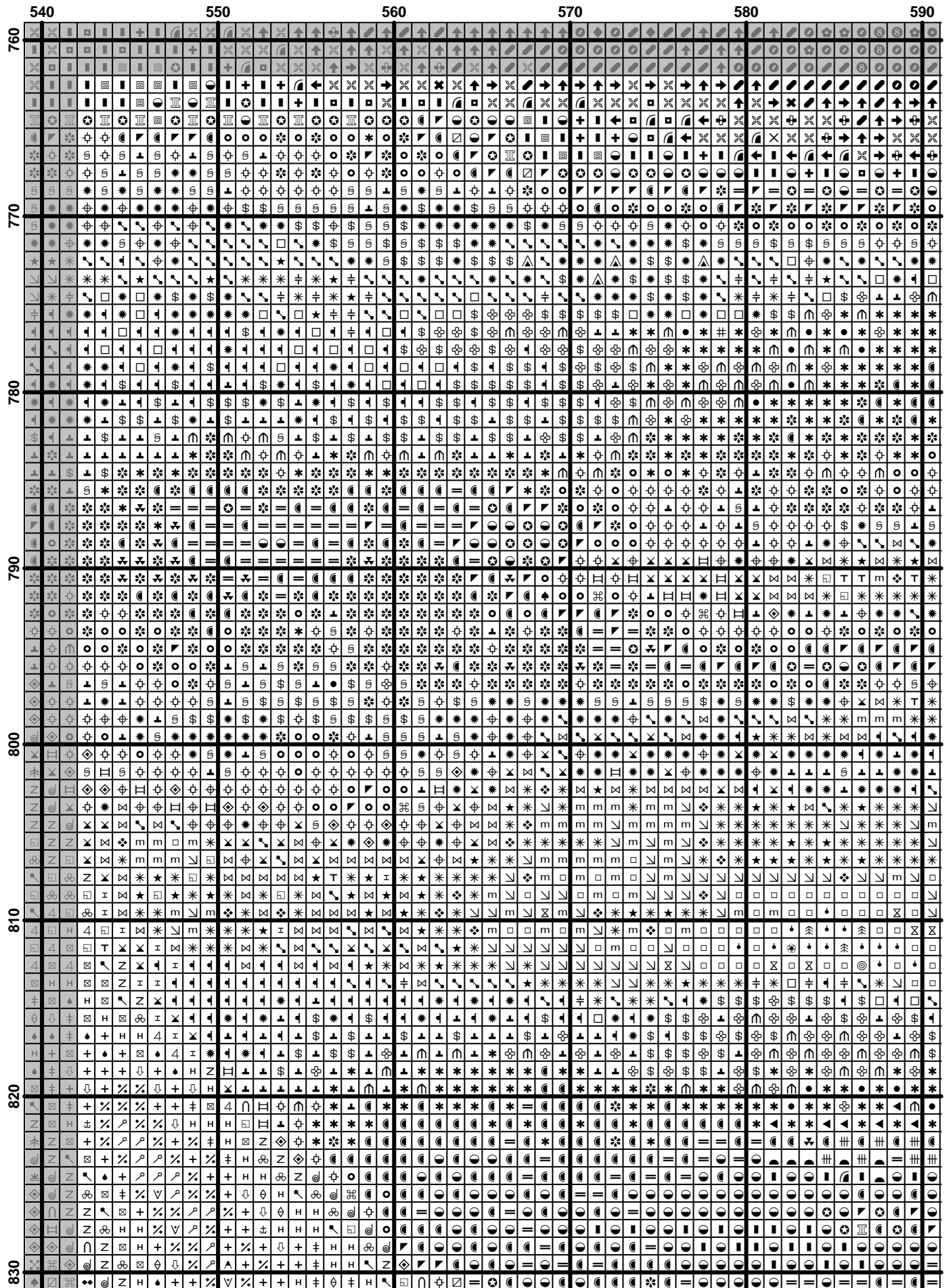
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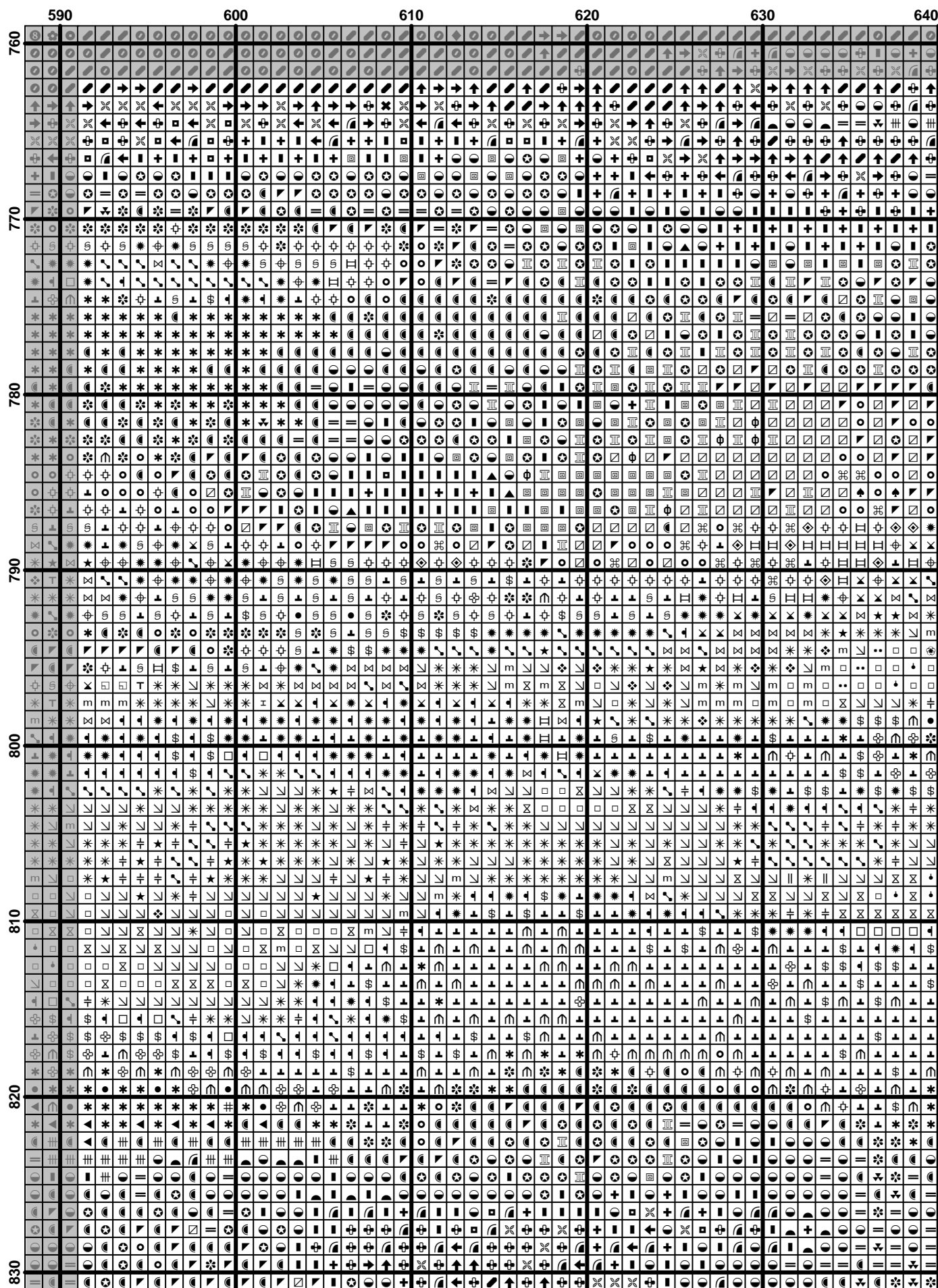
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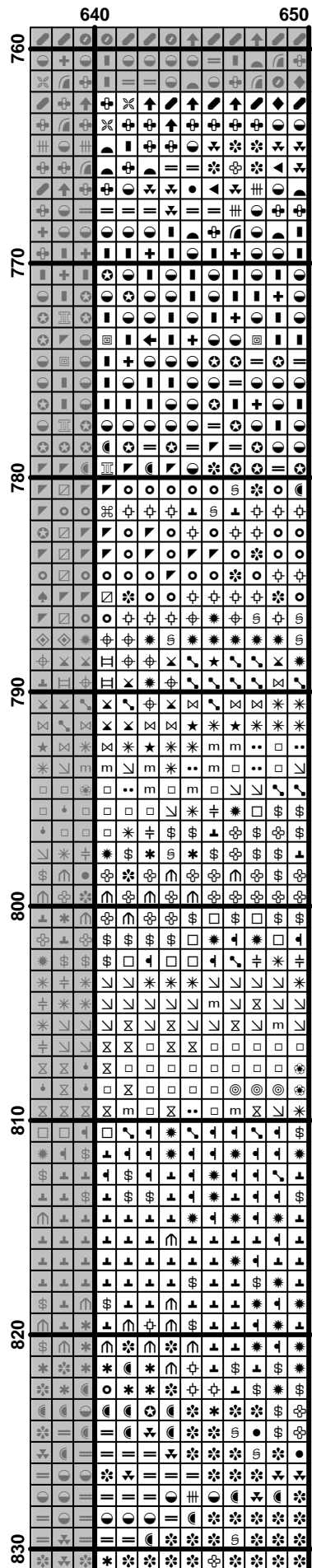
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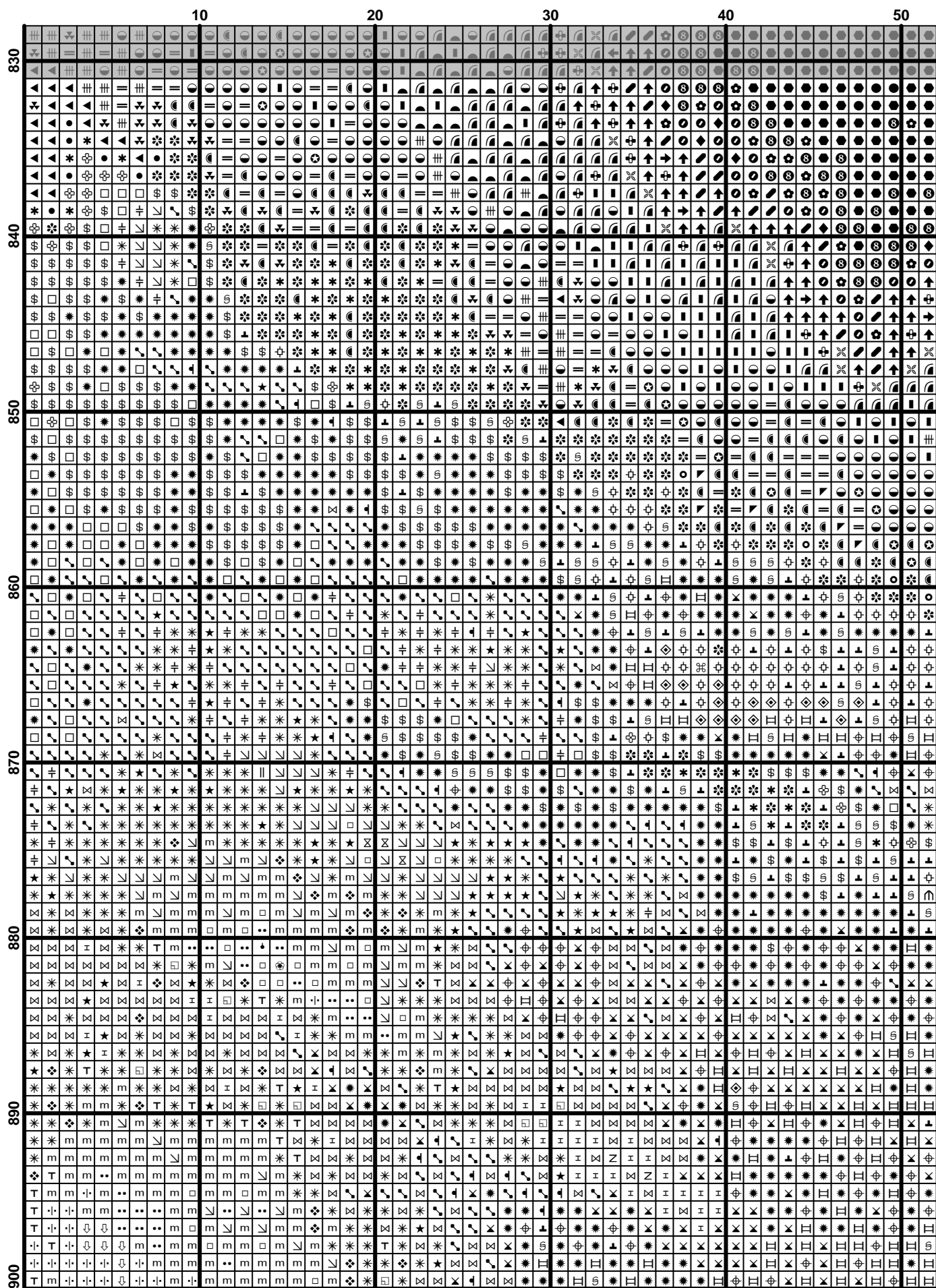


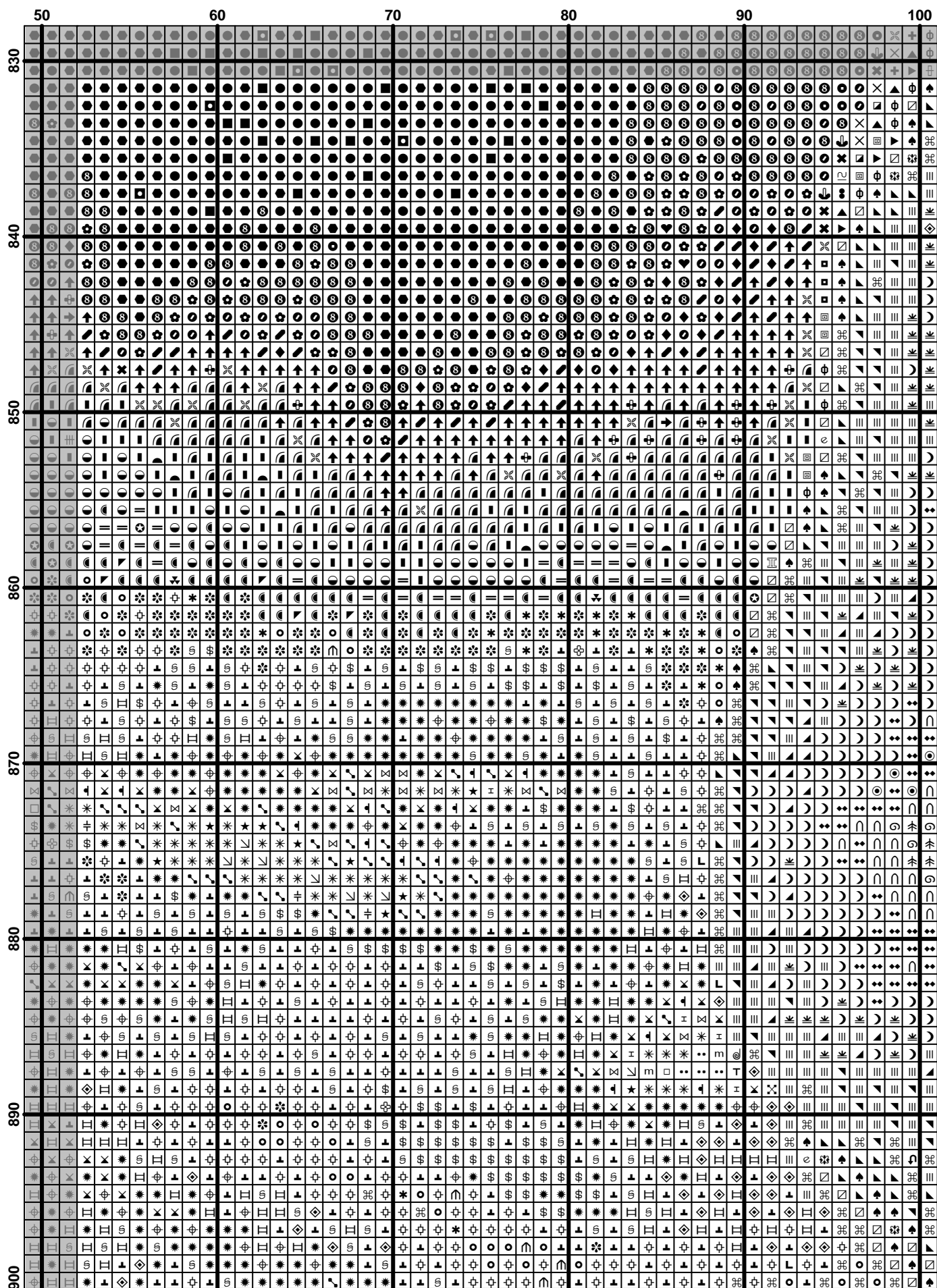




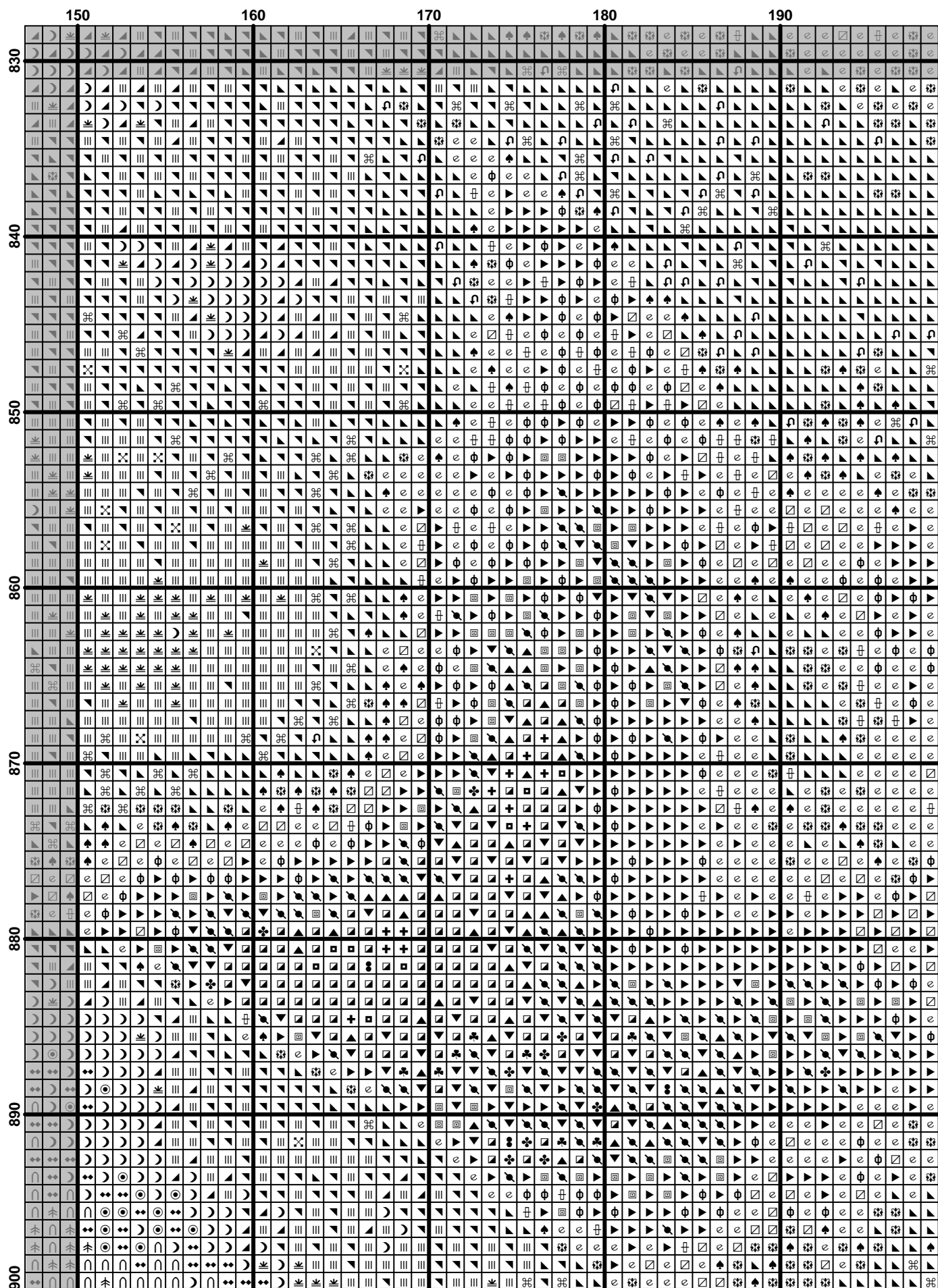


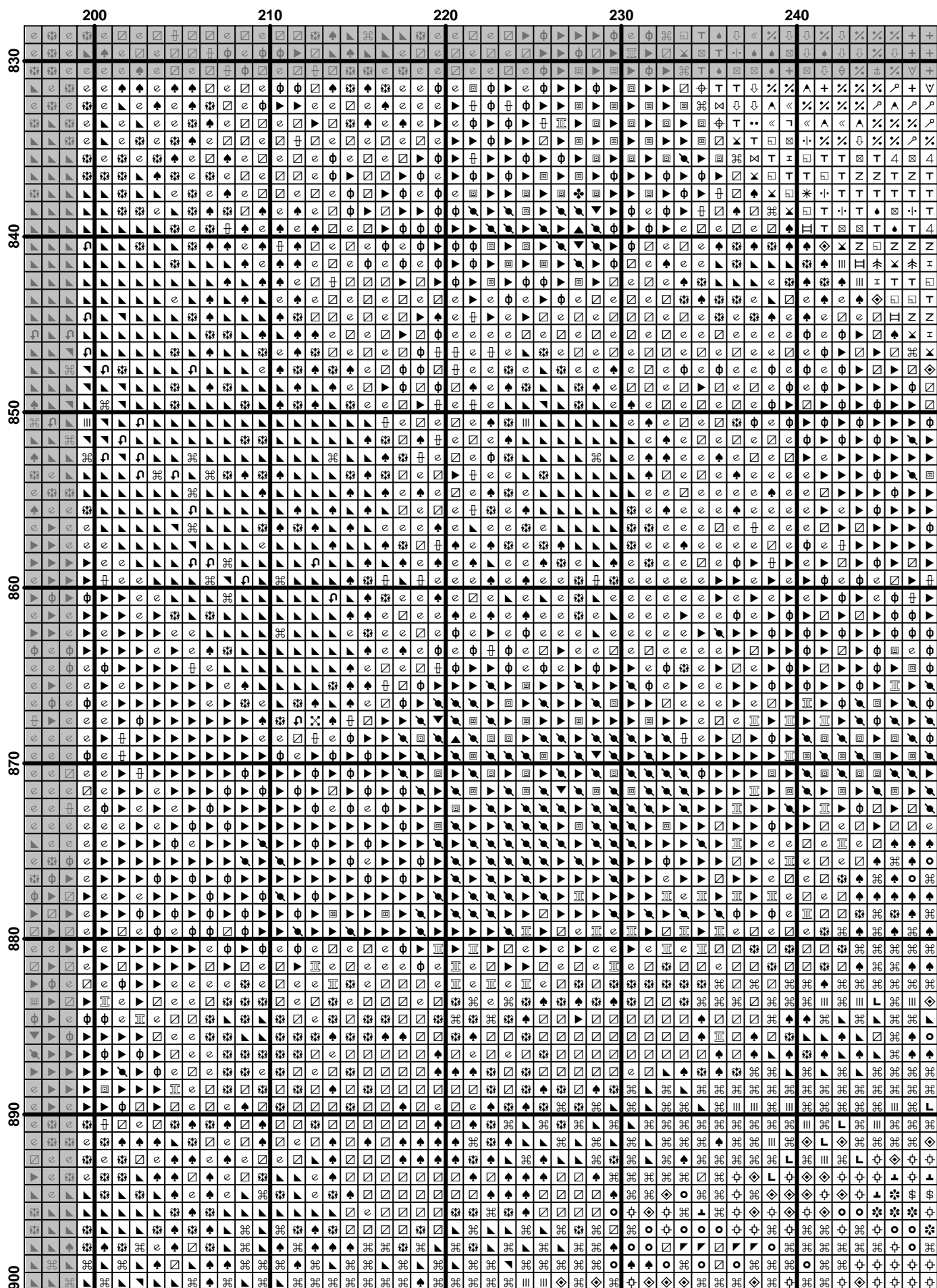




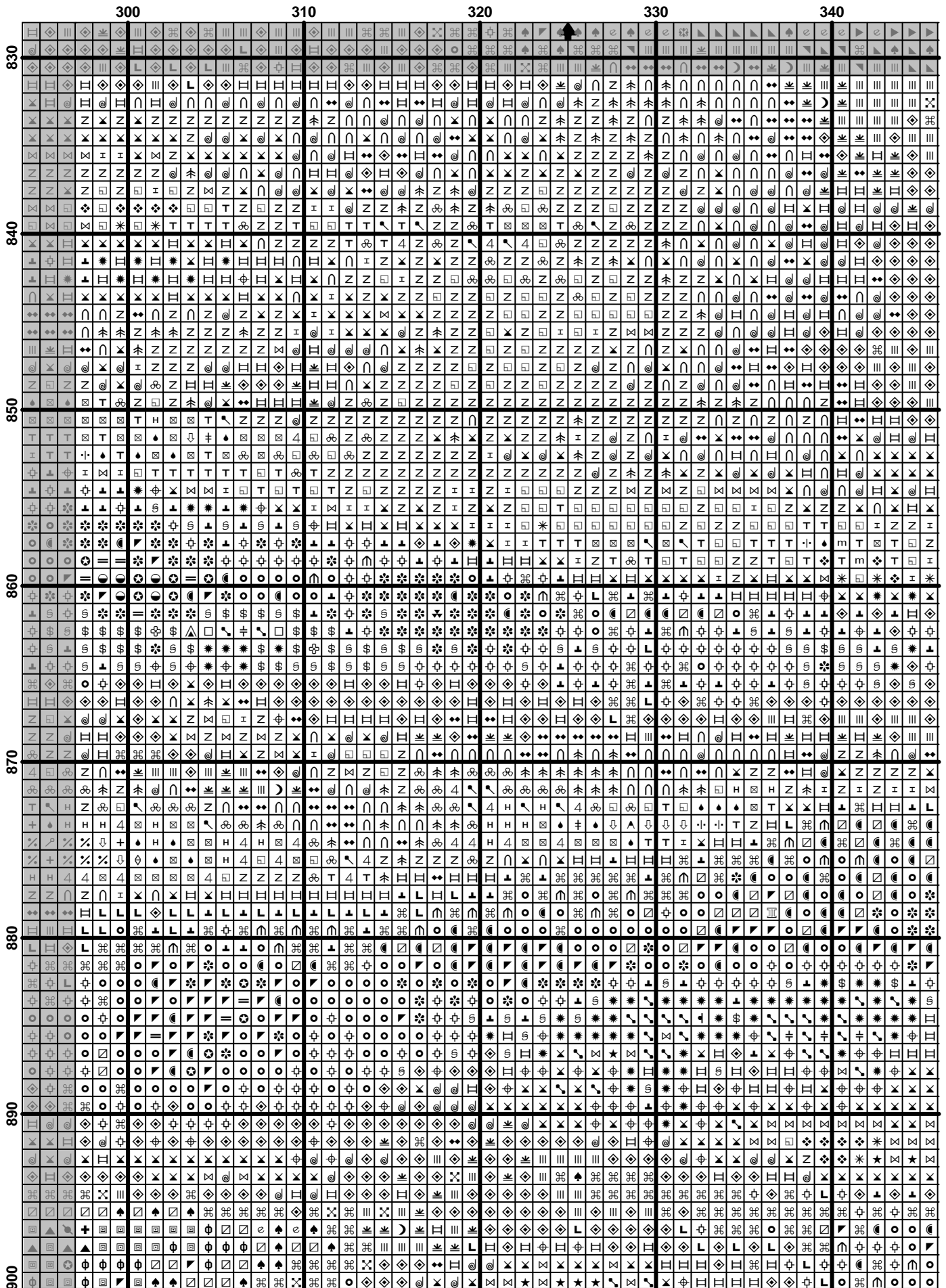


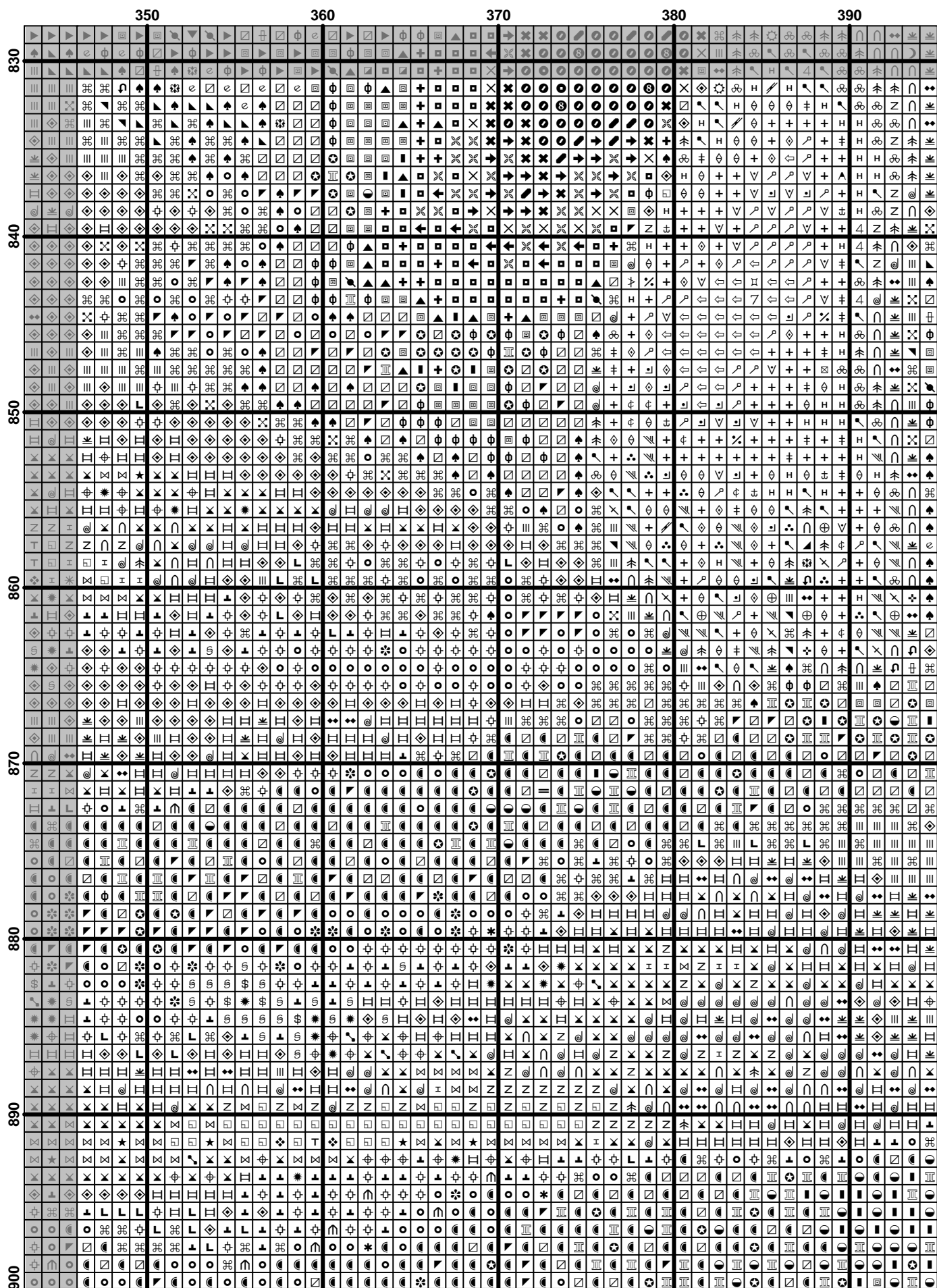
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833	♂	♂	♂	♂	♂	♂
834	♂	♂	♂	♂	♂	♂
835	♂	♂	♂	♂	♂	♂
836	♂	♂	♂	♂	♂	♂
837	♂	♂	♂	♂	♂	♂
838	♂	♂	♂	♂	♂	♂
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840	♂	♂	♂	♂	♂	♂
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842	♂	♂	♂	♂	♂	♂
843	♂	♂	♂	♂	♂	♂
844	♂	♂	♂	♂	♂	♂
845	♂	♂	♂	♂	♂	♂
846	♂	♂	♂	♂	♂	♂
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856	♂	♂	♂	♂	♂	♂
857	♂	♂	♂	♂	♂	♂
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859	♂	♂	♂	♂	♂	♂
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863	♂	♂	♂	♂	♂	♂
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865	♂	♂	♂	♂	♂	♂
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869	♂	♂	♂	♂	♂	♂
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890	♂	♂	♂	♂	♂	♂
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893	♂	♂	♂	♂	♂	♂
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895	♂	♂	♂	♂	♂	♂
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897	♂	♂	♂	♂	♂	♂
898	♂	♂	♂	♂	♂	♂
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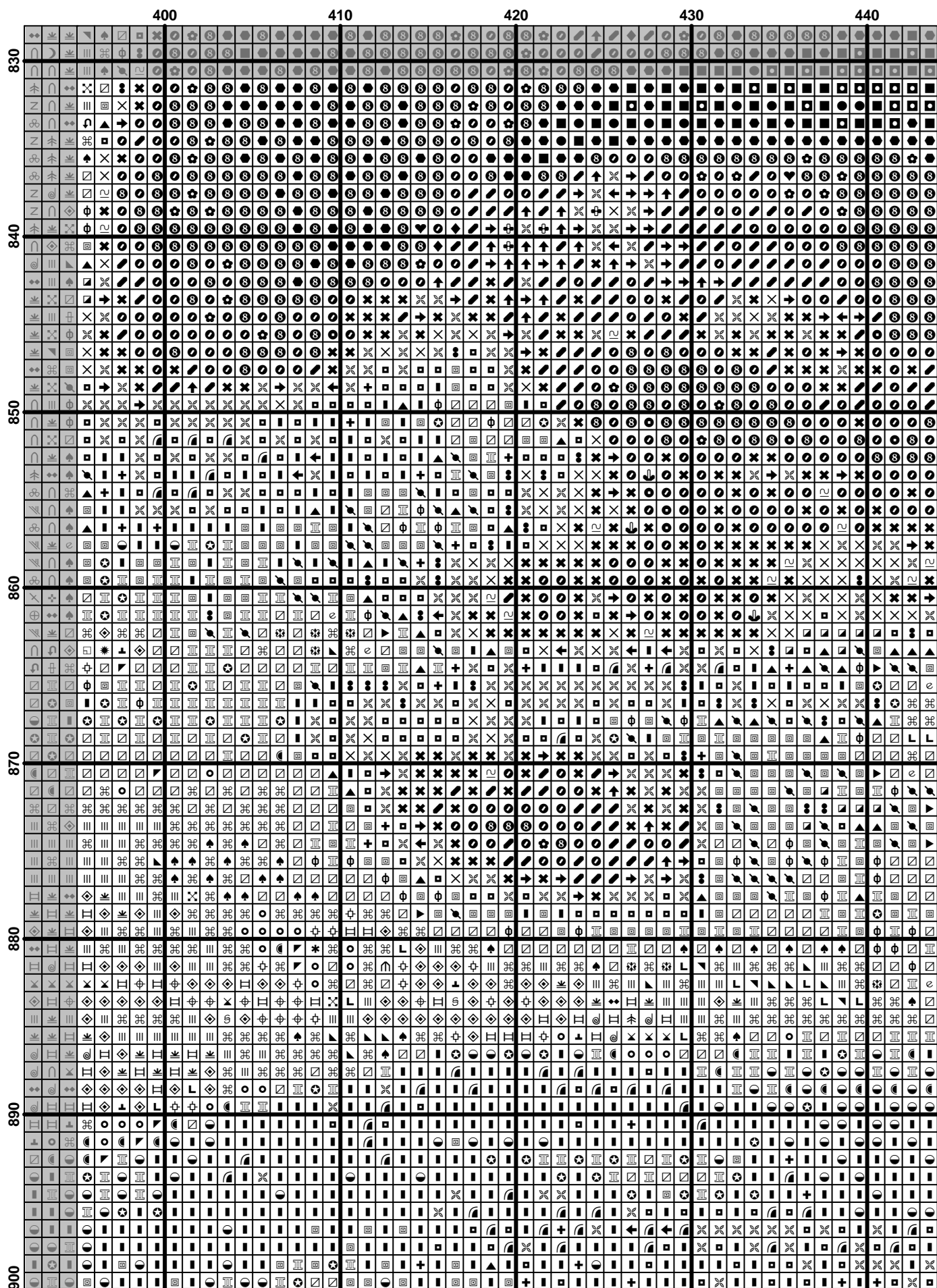


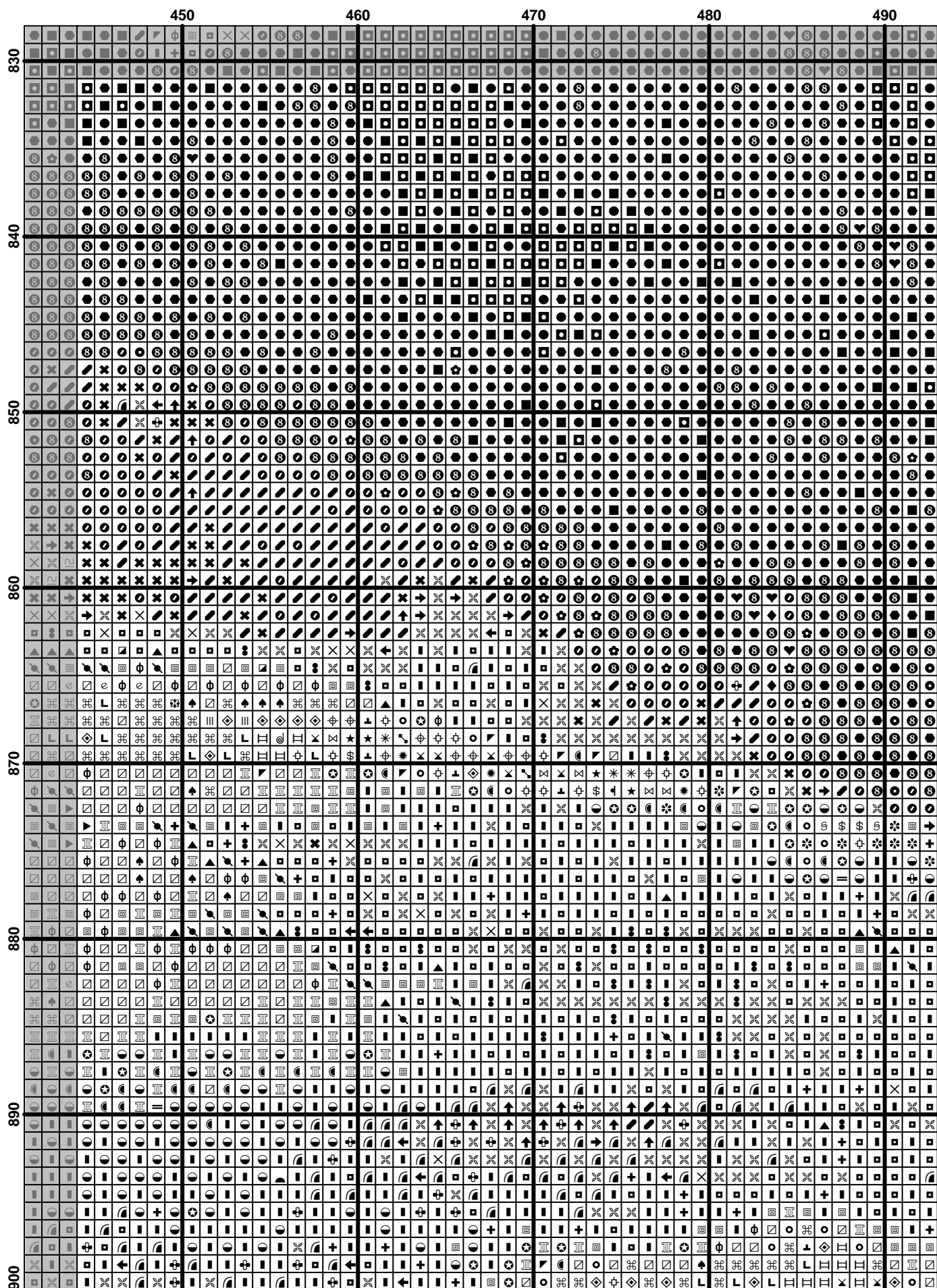


	250	260	270	280	290
830	+	+	+	+	+
840	+	+	+	+	+
850	+	+	+	+	+
860	+	+	+	+	+
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880	+	+	+	+	+
890	+	+	+	+	+
900	+	+	+	+	+

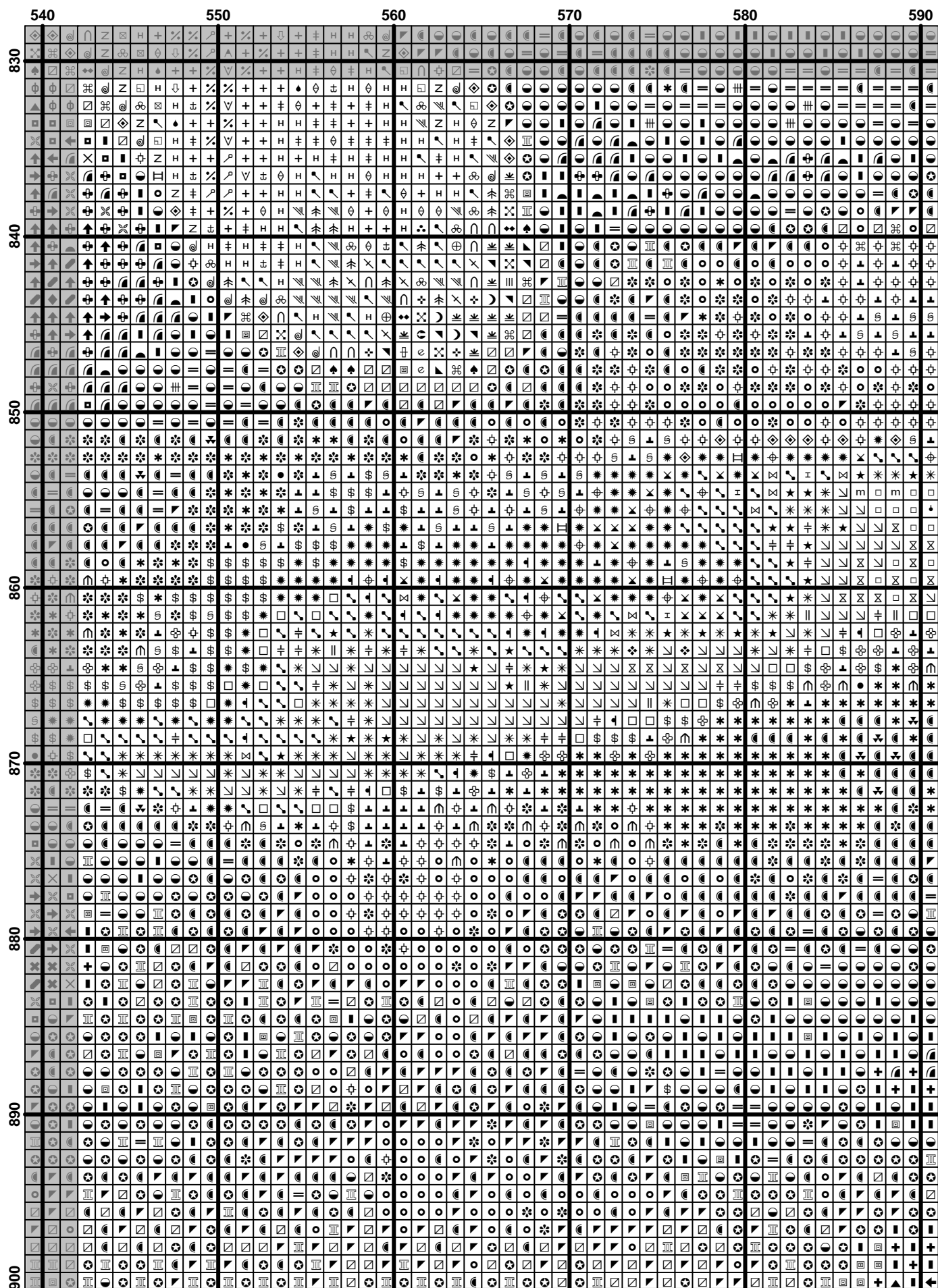


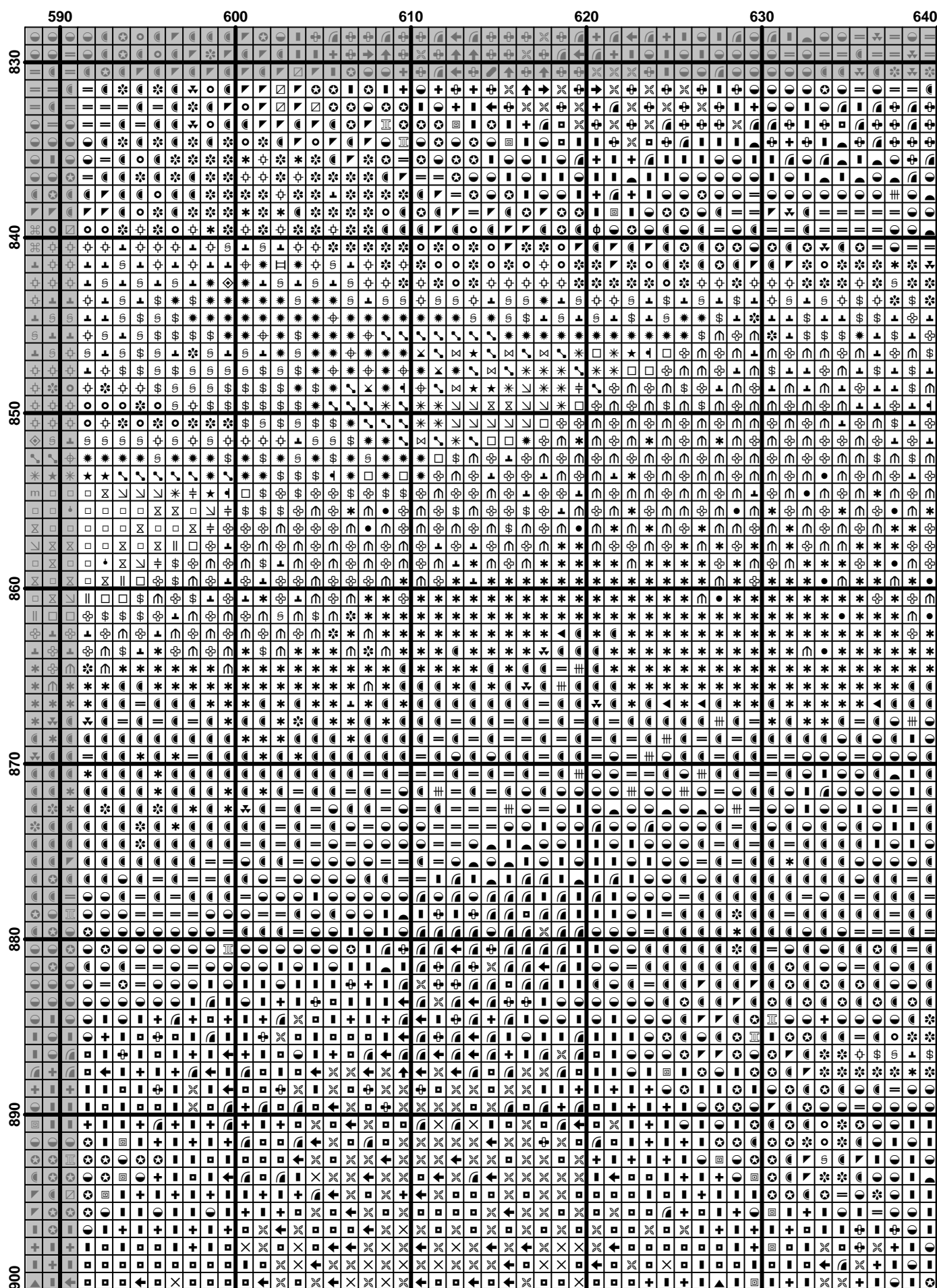


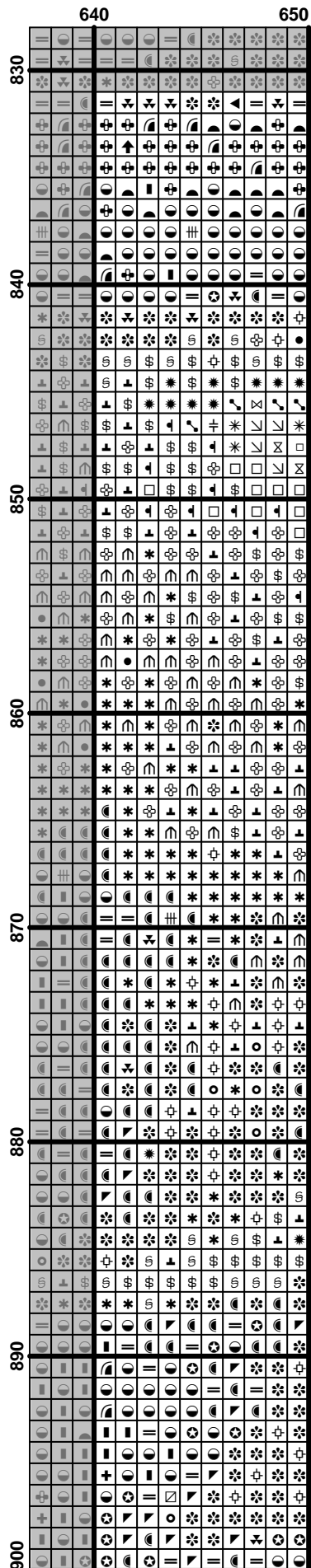




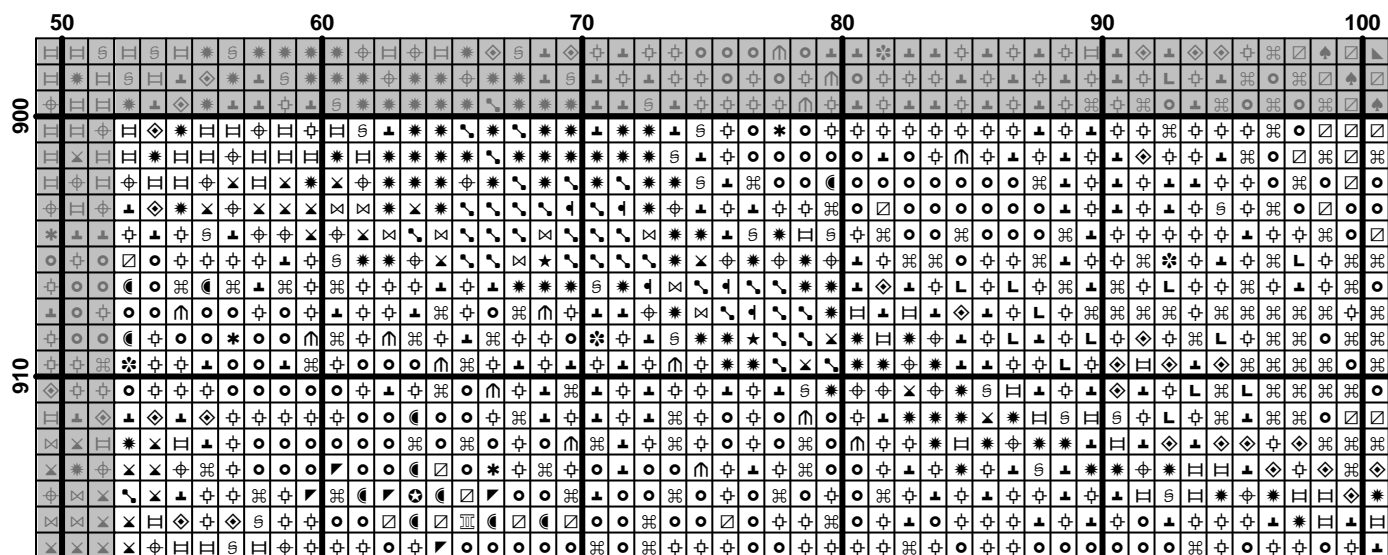


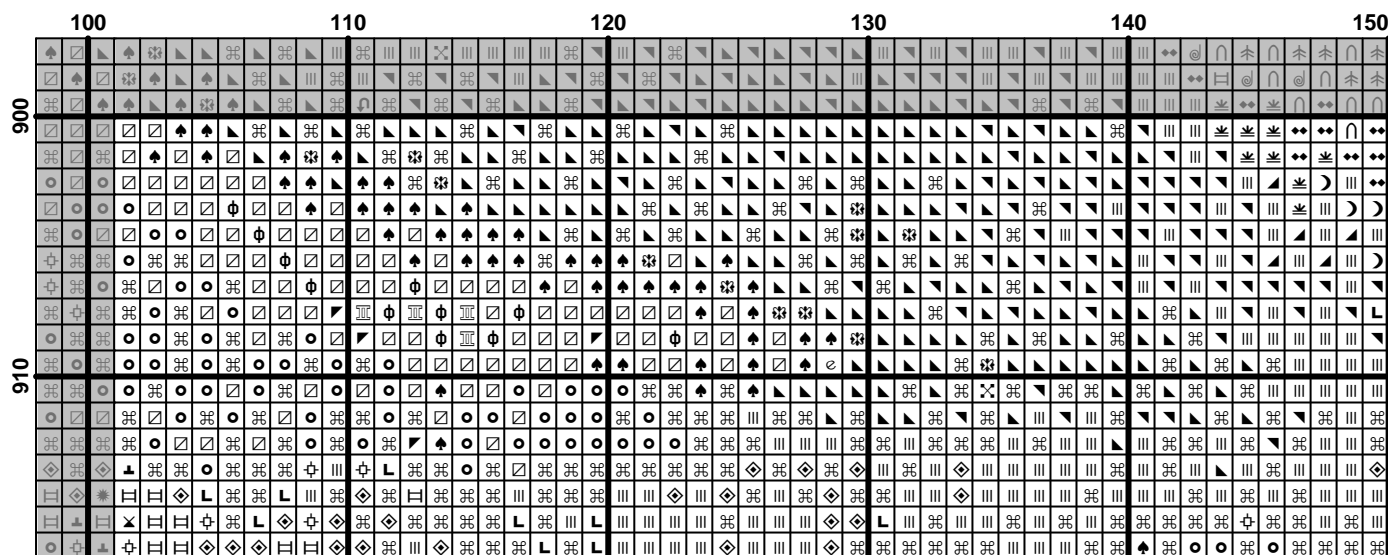






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