

## 1046 Off To School (large)



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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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## Off To School (large)

Stitch Count	
Horizontal:	640
Vertical:	535

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:	116	45.64	97	38.08	102	39.93	85	33.32	91	35.5	76	29.625
Including Margins:	132	52	113	45	118	46	101	40	107	42	92	36
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	162	63.89	135	53.31	135	53.24	113	44.42	67	26.62	56	22.21
Including Margins:	178	70	151	60	151	60	129	51	83	33	72	29
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	64	25.55	54	21.32	62	24.57	52	20.5	60	23.66	50	19.74
Including Margins:	80	32	70	28	78	31	68	27	76	30	66	26
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	58	22.82	48	19.04	54	21.29	45	17.77	50	19.96	42	16.66
Including Margins:	74	29	64	26	70	28	61	24	66	26	58	23

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

Symbol	DMC	Name
×	223	Shell Pink-LT
	224	Shell Pink-VY LT
■	310	Black
►	317	Pewter Gray
田	318	Steel Gray-LT
↑	341	Blue Violet-LT
Φ	347	Salmon-VY DK
◎	351	Coral
⌘	352	Coral-LT
L	356	Terra Cotta-MD
T	407	Desert Sand-DK
▩	413	Pewter Gray-DK
≡	414	Steel Gray-DK
—	415	Pearl Gray
2	437	Tan-LT
4	451	Shell Gray-DK
×	452	Shell Gray-MD
3	453	Shell Gray-LT
¼	503	Blue Green-MD
⊕	535	Ash Gray-VY LT
9	605	Cranberry-VY LT
✦	610	Drab Brown-DK
✦	611	Drab Brown
⌘	612	Drab Brown-LT
▲	632	Desert Sand-UL VY DK
★	640	Beige Gray-VY DK
■	645	Beaver Gray-VY DK
⌘	647	Beaver Gray-MD
+	648	Beaver Gray-LT
α	676	Old Gold-LT
<	677	Old Gold-VY LT
c	712	Cream
☆	738	Tan-VY LT
=	739	Tan-UL VY LT
±	747	Sky Blue-VY LT
△	754	Peach-LT
◇	758	Terra Cotta-VY LT
∨	762	Pearl Gray-VY LT
δ	819	Baby Pink-LT
⦿	839	Beige Brown-DK
⦿	898	Coffee Brown-VY DK
↓	924	Gray Green-VY DK

▷	926	Gray Green-MD
↘	927	Gray Green-LT
Δ	928	Gray Green-VY LT
≡	932	Antique Blue-LT
>	948	Peach-VY LT
◇	950	Desert Sand-LT
⊕	3022	Brown Gray-MD
e	3024	Brown Gray-VY LT
●	3031	Mocha Brown-VY DK
Z	3032	Mocha Brown-MD
Λ	3045	Yellow Beige-DK
□	3046	Yellow Beige-MD
~	3064	Desert Sand
⇒	3072	Beaver Gray-VY LT
↑	3078	Golden Yellow-VY LT
m	3354	Dusty Rose-LT
■	3371	Black Brown
▩	3721	Shell Pink-DK
⊕	3722	Shell Pink-MD
≡	3743	Antique Violet-VY LT
7	3752	Antique Blue-VY LT
≡	3753	Antique Blue-UL VY LT
o	3756	Baby Blue-UL VY LT
▼	3768	Gray Green-DK
✦	3772	Desert Sand-VY DK
*	3776	Mahogany-LT
≡	3778	Terra Cotta-LT
◇	3779	Terra Cotta-UL VY LT
➔	3781	Mocha Brown-DK
⌘	3782	Mocha Brown-LT
▩	3787	Brown Gray-DK
⌘	3790	Beige Gray-UL DK
⌘	3799	Pewter Gray-VY DK
↘	3816	Celadon Green-MD
^	3823	Yellow-UL Pale
±	3825	Pumpkin-Pale
●	3830	Terra Cotta-MD
±	3841	Baby Blue-Pale
0	3855	Autumn Gold-LT
5	3856	Mahogany-UL VY LT
X	3861	Cocoa-LT
◀	3862	Mocha Beige-DK
◎	3863	Mocha Beige-MD
1	3865	Winter White

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

Symbol	DMC1	Name1	DMC2	Name2
∩	318	Steel Gray-LT	414	Steel Gray-DK
↓	927	Gray Green-LT	928	Gray Green-VY LT
√	648	Beaver Gray-LT	950	Desert Sand-LT
◎	318	Steel Gray-LT	932	Antique Blue-LT

☐	414	Steel Gray-DK	932	Antique Blue-LT
⌘	414	Steel Gray-DK	415	Pearl Gray
✓	318	Steel Gray-LT	415	Pearl Gray
†	610	Drab Brown-DK	839	Beige Brown-DK
●	3031	Mocha Brown-VY DK	3371	Black Brown
◆	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
⬆	451	Shell Gray-DK	640	Beige Gray-VY DK
⬇	839	Beige Brown-DK	3787	Brown Gray-DK
←	839	Beige Brown-DK	844	Beaver Brown-UL DK
▲	3862	Mocha Beige-DK	3863	Mocha Beige-MD
☪	317	Pewter Gray	3768	Gray Green-DK
✱	3809	Turquoise-VY DK	3768	Gray Green-DK
⊕	931	Antique Blue-MD	932	Antique Blue-LT
⌘	317	Pewter Gray	932	Antique Blue-LT
□	3756	Baby Blue-UL VY LT	762	Pearl Gray-VY LT
⬆	414	Steel Gray-DK	931	Antique Blue-MD
u	1	White 1	3865	Winter White
⌘	413	Pewter Gray-DK	924	Gray Green-VY DK
6	3024	Brown Gray-VY LT	3072	Beaver Gray-VY LT
✱	414	Steel Gray-DK	3809	Turquoise-VY DK
☪	414	Steel Gray-DK	503	Blue Green-MD
n	3756	Baby Blue-UL VY LT	3865	Winter White
+	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
⌘	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
⋄	413	Pewter Gray-DK	844	Beaver Brown-UL DK
♠	3787	Brown Gray-DK	3790	Beige Gray-UL DK
✱	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
▲	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
6	415	Pearl Gray	3752	Antique Blue-VY LT
✱	317	Pewter Gray	926	Gray Green-MD
♦	640	Beige Gray-VY DK	3790	Beige Gray-UL DK
☪	934	Black Avocado Green	3799	Pewter Gray-VY DK
♣	632	Desert Sand-UL VY DK	839	Beige Brown-DK
●	640	Beige Gray-VY DK	3787	Brown Gray-DK
♡	3841	Baby Blue-Pale	747	Sky Blue-VY LT
~	747	Sky Blue-VY LT	3865	Winter White
н	3743	Antique Violet-VY LT	318	Steel Gray-LT
⊠	341	Blue Violet-LT	3841	Baby Blue-Pale
::	318	Steel Gray-LT	3753	Antique Blue-UL VY LT
/	415	Pearl Gray	762	Pearl Gray-VY LT
⌘	415	Pearl Gray	453	Shell Gray-LT
4	3743	Antique Violet-VY LT	3841	Baby Blue-Pale
○	414	Steel Gray-DK	3861	Cocoa-LT
#	341	Blue Violet-LT	932	Antique Blue-LT
⌘	317	Pewter Gray	414	Steel Gray-DK
//	414	Steel Gray-DK	451	Shell Gray-DK
☪	451	Shell Gray-DK	317	Pewter Gray
■	317	Pewter Gray	535	Ash Gray-VY LT
●	317	Pewter Gray	413	Pewter Gray-DK
⋄	414	Steel Gray-DK	647	Beaver Gray-MD
☪	647	Beaver Gray-MD	3861	Cocoa-LT
⊠	3861	Cocoa-LT	3782	Mocha Brown-LT
⋄	738	Tan-VY LT	3782	Mocha Brown-LT
⋄	3032	Mocha Brown-MD	3863	Mocha Beige-MD
○	452	Shell Gray-MD	648	Beaver Gray-LT
☪	413	Pewter Gray-DK	535	Ash Gray-VY LT
⌘	407	Desert Sand-DK	223	Shell Pink-LT
⌘	640	Beige Gray-VY DK	3064	Desert Sand
..	3782	Mocha Brown-LT	437	Tan-LT

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6	3782	Mocha Brown-LT	407	Desert Sand-DK
6	3064	Desert Sand	3772	Desert Sand-VY DK
7	437	Tan-LT	3064	Desert Sand
8	610	Drab Brown-DK	632	Desert Sand-UL VY DK
9	437	Tan-LT	3772	Desert Sand-VY DK
10	647	Beaver Gray-MD	223	Shell Pink-LT
11	452	Shell Gray-MD	758	Terra Cotta-VY LT
12	414	Steel Gray-DK	3768	Gray Green-DK
13	712	Cream	762	Pearl Gray-VY LT
14	503	Blue Green-MD	3022	Brown Gray -MD
15	3072	Beaver Gray-VY LT	948	Peach-VY LT
16	739	Tan-UL VY LT	648	Beaver Gray-LT
17	839	Beige Brown-DK	869	Hazelnut Brown-VY DK
18	838	Beige Brown-VY DK	3781	Mocha Brown-DK
19	356	Terra Cotta-MD	3064	Desert Sand
20	437	Tan-LT	722	Orange Spice-LT
21	407	Desert Sand-DK	758	Terra Cotta-VY LT
22	356	Terra Cotta-MD	420	Hazelnut Brown-DK
23	420	Hazelnut Brown-DK	632	Desert Sand-UL VY DK
24	3828	Hazelnut Brown	3853	Autumn Gold-DK
25	3064	Desert Sand	420	Hazelnut Brown-DK
26	3743	Antique Violet-VY LT	762	Pearl Gray-VY LT
27	758	Terra Cotta-VY LT	3733	Dusty Rose
28	3823	Yellow -UL Pale	3855	Autumn Gold-LT
29	754	Peach-LT	605	Cranberry-VY LT
30	352	Coral-LT	452	Shell Gray-MD
31	3863	Mocha Beige-MD	3782	Mocha Brown-LT
32	934	Black Avocado Green	310	Black
33	310	Black	3799	Pewter Gray -VY DK
34	754	Peach-LT	3855	Autumn Gold-LT
35	353	Peach	948	Peach-VY LT
36	934	Black Avocado Green	3021	Brown Gray -VY DK
37	3022	Brown Gray -MD	926	Gray Green-MD
38	762	Pearl Gray-VY LT	3752	Antique Blue-VY LT
39	3021	Brown Gray -VY DK	3781	Mocha Brown-DK
40	1	White 1	747	Sky Blue-VY LT
41	3032	Mocha Brown-MD	3782	Mocha Brown-LT
42	317	Pewter Gray	3787	Brown Gray -DK
43	3354	Dusty Rose-LT	453	Shell Gray-LT
44	819	Baby Pink-LT	605	Cranberry-VY LT
45	722	Orange Spice-LT	351	Coral
46	610	Drab Brown-DK	3787	Brown Gray -DK
47	1	White 1	3841	Baby Blue-Pale
48	317	Pewter Gray	318	Steel Gray-LT
49	926	Gray Green-MD	645	Beaver Gray-VY DK
50	632	Desert Sand-UL VY DK	3790	Beige Gray-UL DK
51	640	Beige Gray-VY DK	3772	Desert Sand-VY DK
52	739	Tan-UL VY LT	3024	Brown Gray -VY LT
53	353	Peach	819	Baby Pink-LT
54	3768	Gray Green-DK	3816	Celadon Green-MD
55	3856	Mahogany-UL VY LT	437	Tan-LT



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	3178	1251	3027	1191	2724	1072
223	Shell Pink-LT	108	42	103	40	93	36
224	Shell Pink-VY LT	81	31	77	30	69	27
310	Black	4057	1597	3863	1520	3477	1368
317	Pewter Gray	4633	1824	4413	1737	3971	1563
318	Steel Gray-LT	1419	558	1351	531	1216	478
341	Blue Violet-LT	669	263	638	251	574	225
347	Salmon-VY DK	7	2	6	2	6	2
351	Coral	24	9	23	9	21	8
352	Coral-LT	44	17	42	16	38	14
353	Peach	46	18	43	16	39	15
356	Terra Cotta-MD	100	39	95	37	86	33
407	Desert Sand-DK	238	93	227	89	204	80
413	Pewter Gray -DK	2574	1013	2451	964	2206	868
414	Steel Gray-DK	3390	1334	3228	1270	2905	1143
415	Pearl Gray	2464	970	2347	924	2112	831
420	Hazelnut Brown-DK	247	97	236	92	212	83
437	Tan-LT	325	127	310	122	279	109
451	Shell Gray-DK	1855	730	1767	695	1590	625
452	Shell Gray-MD	789	310	751	295	676	266
453	Shell Gray-LT	1010	397	961	378	865	340
503	Blue Green-MD	264	103	251	98	226	88
535	Ash Gray -VY LT	1651	650	1572	618	1415	557
605	Cranberry-VY LT	33	12	32	12	29	11
610	Drab Brown-DK	2363	930	2251	886	2025	797
611	Drab Brown	369	145	352	138	317	124
612	Drab Brown-LT	149	58	142	55	127	50
632	Desert Sand-UL VY DK	460	181	438	172	394	155
640	Beige Gray-VY DK	3377	1329	3216	1266	2894	1139
645	Beaver Gray-VY DK	1600	629	1523	599	1371	539
647	Beaver Gray-MD	1692	666	1611	634	1450	570
648	Beaver Gray-LT	1073	422	1022	402	920	362
676	Old Gold-LT	24	9	23	9	21	8
677	Old Gold-VY LT	26	10	25	9	22	8
712	Cream	442	174	421	165	379	149
722	Orange Spice-LT	30	11	29	11	26	10
738	Tan-VY LT	258	101	246	96	221	87
739	Tan-UL VY LT	251	98	239	94	215	84
747	Sky Blue-VY LT	2100	826	2000	787	1800	708
754	Peach-LT	87	34	83	32	74	29
758	Terra Cotta-VY LT	207	81	197	77	177	69
762	Pearl Gray-VY LT	2609	1027	2485	978	2236	880
819	Baby Pink-LT	188	74	179	70	161	63
838	Beige Brown-VY DK	264	103	251	98	226	88
839	Beige Brown-DK	2867	1128	2731	1075	2458	967
844	Beaver Brown-UL DK	1742	685	1659	653	1493	587
869	Hazelnut Brown-VY DK	274	107	261	102	235	92
898	Coffee Brown-VY DK	228	89	217	85	195	76
924	Gray Green-VY DK	615	242	586	230	527	207
926	Gray Green-MD	1650	649	1571	618	1414	556
927	Gray Green-LT	684	269	652	256	587	231
928	Gray Green-VY LT	682	268	650	255	585	230
931	Antique Blue-MD	381	150	362	142	326	128
932	Antique Blue-LT	1193	469	1136	447	1022	402

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934	Black Avocado Green	1461	575	1392	548	1252	492
948	Peach-VY LT	140	55	134	52	120	47
950	Desert Sand-LT	222	87	211	83	190	74
3021	Brown Gray -VY DK	1831	720	1744	686	1569	617
3022	Brown Gray -MD	1131	445	1077	424	969	381
3024	Brown Gray -VY LT	1144	450	1089	428	980	385
3031	Mocha Brown-VY DK	1068	420	1017	400	916	360
3032	Mocha Brown-MD	1376	541	1311	516	1180	464
3045	Yellow Beige-DK	66	25	63	24	57	22
3046	Yellow Beige-MD	44	17	42	16	38	14
3064	Desert Sand	466	183	444	174	400	157
3072	Beaver Gray-VY LT	978	385	931	366	838	329
3078	Golden Yellow -VY LT	41	16	39	15	35	13
3354	Dusty Rose-LT	40	15	38	14	34	13
3371	Black Brown	630	248	600	236	540	212
3721	Shell Pink-DK	13	5	13	5	11	4
3722	Shell Pink-MD	11	4	10	3	9	3
3733	Dusty Rose	29	11	27	10	25	9
3743	Antique Violet-VY LT	1004	395	956	376	860	338
3752	Antique Blue-VY LT	555	218	529	208	476	187
3753	Antique Blue-UL VY LT	561	220	534	210	481	189
3756	Baby Blue-UL VY LT	1431	563	1363	536	1227	483
3768	Gray Green-DK	1088	428	1036	407	933	367
3772	Desert Sand-VY DK	537	211	511	201	460	181
3776	Mahogany-LT	18	7	17	6	15	5
3778	Terra Cotta-LT	39	15	37	14	33	12
3779	Terra Cotta-UL VY LT	75	29	72	28	64	25
3781	Mocha Brown-DK	1844	725	1757	691	1581	622
3782	Mocha Brown-LT	2021	795	1925	757	1732	681
3787	Brown Gray -DK	4376	1722	4167	1640	3750	1476
3790	Beige Gray-UL DK	2997	1179	2855	1124	2569	1011
3799	Pewter Gray -VY DK	3482	1370	3317	1305	2985	1175
3809	Turquoise-VY DK	158	62	150	59	135	53
3816	Celadon Green-MD	128	50	122	48	110	43
3823	Yellow -UL Pale	104	40	99	38	89	35
3825	Pumpkin-Pale	23	9	22	8	20	7
3828	Hazelnut Brown	25	9	24	9	21	8
3830	Terra Cotta-MD	8	3	8	3	7	2
3841	Baby Blue-Pale	2028	798	1932	760	1739	684
3853	Autumn Gold-DK	25	9	24	9	21	8
3855	Autumn Gold-LT	95	37	90	35	81	31
3856	Mahogany-UL VY LT	66	25	62	24	56	22
3861	Cocoa-LT	1476	581	1405	553	1265	498
3862	Mocha Beige-DK	975	383	929	365	836	329
3863	Mocha Beige-MD	1330	523	1267	498	1140	448
3865	Winter White	2330	917	2219	873	1997	786

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	4903	1930	4086	1608	2043	804
223	Shell Pink-LT	167	65	140	54	70	27
224	Shell Pink-VY LT	124	49	104	41	52	20
310	Black	6259	2462	5216	2052	2608	1026
317	Pewter Gray	7148	2813	5957	2345	2978	1172
318	Steel Gray-LT	2189	860	1824	717	912	359



341	Blue Violet-LT	1033	405	861	338	431	169
347	Salmon-VY DK	11	4	9	3	5	2
351	Coral	38	14	32	12	16	6
352	Coral-LT	68	25	57	21	29	11
353	Peach	70	27	59	23	29	11
356	Terra Cotta-MD	155	59	129	50	65	25
407	Desert Sand-DK	367	144	306	120	153	60
413	Pewter Gray -DK	3971	1562	3309	1302	1655	651
414	Steel Gray-DK	5229	2057	4358	1715	2179	857
415	Pearl Gray	3802	1496	3168	1247	1584	623
420	Hazelnut Brown-DK	382	149	318	125	159	62
437	Tan-LT	502	196	419	164	209	82
451	Shell Gray-DK	2862	1125	2385	938	1193	469
452	Shell Gray-MD	1217	479	1014	399	507	200
453	Shell Gray-LT	1557	612	1298	510	649	255
503	Blue Green-MD	407	158	339	132	170	66
535	Ash Gray -VY LT	2547	1003	2123	836	1061	418
605	Cranberry-VY LT	52	20	44	17	22	8
610	Drab Brown-DK	3645	1435	3038	1196	1519	598
611	Drab Brown	571	223	476	186	238	93
612	Drab Brown-LT	229	90	191	75	95	38
632	Desert Sand-UL VY DK	709	279	591	233	296	116
640	Beige Gray-VY DK	5209	2050	4341	1709	2171	854
645	Beaver Gray-VY DK	2468	970	2057	809	1028	404
647	Beaver Gray-MD	2610	1026	2175	855	1088	428
648	Beaver Gray-LT	1656	652	1380	543	690	272
676	Old Gold-LT	38	14	32	12	16	6
677	Old Gold-VY LT	40	14	33	12	17	6
712	Cream	682	268	569	224	284	112
722	Orange Spice-LT	47	18	39	15	20	8
738	Tan-VY LT	398	157	332	131	166	65
739	Tan-UL VY LT	387	151	323	126	161	63
747	Sky Blue-VY LT	3240	1274	2700	1062	1350	531
754	Peach-LT	133	52	111	44	56	22
758	Terra Cotta-VY LT	319	124	266	104	133	52
762	Pearl Gray-VY LT	4025	1584	3354	1320	1677	660
819	Baby Pink-LT	290	113	242	95	121	47
838	Beige Brown-VY DK	407	158	339	132	170	66
839	Beige Brown-DK	4424	1741	3687	1451	1844	725
844	Beaver Brown-UL DK	2687	1057	2240	881	1120	440
869	Hazelnut Brown-VY DK	423	166	353	138	176	69
898	Coffee Brown-VY DK	351	137	293	114	146	57
924	Gray Green-VY DK	949	373	791	311	395	155
926	Gray Green-MD	2545	1001	2121	834	1061	417
927	Gray Green-LT	1057	416	881	347	440	173
928	Gray Green-VY LT	1053	414	878	345	439	173
931	Antique Blue-MD	587	230	489	192	245	96
932	Antique Blue-LT	1840	724	1533	603	767	302
934	Black Avocado Green	2254	886	1878	738	939	369
948	Peach-VY LT	216	85	180	71	90	35
950	Desert Sand-LT	342	133	285	111	143	56
3021	Brown Gray -VY DK	2824	1111	2354	926	1177	463
3022	Brown Gray -MD	1744	686	1454	572	727	286
3024	Brown Gray -VY LT	1764	693	1470	578	735	289
3031	Mocha Brown-VY DK	1649	648	1374	540	687	270
3032	Mocha Brown-MD	2124	835	1770	696	885	348
3045	Yellow Beige-DK	103	40	86	33	43	17
3046	Yellow Beige-MD	68	25	57	21	29	11
3064	Desert Sand	720	283	600	236	300	118

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3072	Beaver Gray-VY LT	1508	592	1257	494	629	247
3078	Golden Yellow-VY LT	63	23	53	20	26	10
3354	Dusty Rose-LT	61	23	51	20	26	10
3371	Black Brown	972	382	810	318	405	159
3721	Shell Pink-DK	20	7	17	6	8	3
3722	Shell Pink-MD	16	5	14	5	7	2
3733	Dusty Rose	45	16	38	14	19	7
3743	Antique Violet-VY LT	1548	608	1290	507	645	254
3752	Antique Blue-VY LT	857	337	714	281	357	140
3753	Antique Blue-UL VY LT	866	340	722	284	361	142
3756	Baby Blue-UL VY LT	2209	869	1841	725	920	362
3768	Gray Green-DK	1679	661	1400	551	700	275
3772	Desert Sand-VY DK	828	326	690	272	345	136
3776	Mahogany-LT	27	9	23	8	11	4
3778	Terra Cotta-LT	59	22	50	18	25	9
3779	Terra Cotta-UL VY LT	115	45	96	38	48	19
3781	Mocha Brown-DK	2846	1120	2372	933	1186	467
3782	Mocha Brown-LT	3118	1226	2598	1022	1299	511
3787	Brown Gray -DK	6750	2657	5625	2214	2813	1107
3790	Beige Gray-UL DK	4624	1820	3854	1517	1927	758
3799	Pewter Gray -VY DK	5373	2115	4478	1763	2239	881
3809	Turquoise-VY DK	243	95	203	80	101	40
3816	Celadon Green-MD	198	77	165	65	83	32
3823	Yellow -UL Pale	160	63	134	53	67	26
3825	Pumpkin-Pale	36	13	30	11	15	5
3828	Hazelnut Brown	38	14	32	12	16	6
3830	Terra Cotta-MD	13	4	11	3	5	2
3841	Baby Blue-Pale	3130	1231	2609	1026	1304	513
3853	Autumn Gold-DK	38	14	32	12	16	6
3855	Autumn Gold-LT	146	56	122	47	61	23
3856	Mahogany-UL VY LT	101	40	84	33	42	17
3861	Cocoa-LT	2277	896	1898	747	949	374
3862	Mocha Beige-DK	1505	592	1254	494	627	247
3863	Mocha Beige-MD	2052	806	1710	672	855	336
3865	Winter White	3595	1415	2996	1179	1498	590

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	1961	772	1886	742	1816	715
223	Shell Pink-LT	67	26	64	25	62	24
224	Shell Pink-VY LT	50	19	48	19	46	18
310	Black	2503	985	2407	947	2318	912
317	Pewter Gray	2859	1125	2749	1082	2647	1042
318	Steel Gray-LT	876	344	842	331	811	319
341	Blue Violet-LT	413	162	397	156	383	150
347	Salmon-VY DK	4	1	4	1	4	1
351	Coral	15	6	15	6	14	5
352	Coral-LT	27	10	26	10	25	9
353	Peach	28	11	27	10	26	10
356	Terra Cotta-MD	62	24	60	23	57	22
407	Desert Sand-DK	147	58	141	55	136	53
413	Pewter Gray -DK	1588	625	1527	601	1471	579
414	Steel Gray-DK	2092	823	2011	791	1937	762
415	Pearl Gray	1521	598	1462	575	1408	554
420	Hazelnut Brown-DK	153	60	147	57	141	55

437	Tan-LT	201	78	193	75	186	73
451	Shell Gray-DK	1145	450	1101	433	1060	417
452	Shell Gray-MD	487	192	468	184	451	177
453	Shell Gray-LT	623	245	599	235	577	227
503	Blue Green-MD	163	63	156	61	151	59
535	Ash Gray-VY LT	1019	401	980	386	943	371
605	Cranberry-VY LT	21	8	20	8	19	7
610	Drab Brown-DK	1458	574	1402	552	1350	531
611	Drab Brown	228	89	219	86	211	83
612	Drab Brown-LT	91	36	88	35	85	33
632	Desert Sand-UL VY DK	284	112	273	107	263	103
640	Beige Gray-VY DK	2084	820	2004	789	1929	759
645	Beaver Gray-VY DK	987	388	949	373	914	359
647	Beaver Gray-MD	1044	410	1004	395	967	380
648	Beaver Gray-LT	662	261	637	251	613	241
676	Old Gold-LT	15	6	15	6	14	5
677	Old Gold-VY LT	16	6	15	6	15	5
712	Cream	273	107	262	103	253	99
722	Orange Spice-LT	19	7	18	7	17	7
738	Tan-VY LT	159	63	153	60	147	58
739	Tan-UL VY LT	155	60	149	58	143	56
747	Sky Blue-VY LT	1296	510	1246	490	1200	472
754	Peach-LT	53	21	51	20	49	19
758	Terra Cotta-VY LT	127	50	123	48	118	46
762	Pearl Gray-VY LT	1610	634	1548	609	1491	587
819	Baby Pink-LT	116	45	111	44	107	42
838	Beige Brown-VY DK	163	63	156	61	151	59
839	Beige Brown-DK	1770	696	1702	669	1639	645
844	Beaver Brown-UL DK	1075	423	1034	406	995	391
869	Hazelnut Brown-VY DK	169	66	163	64	157	61
898	Coffee Brown-VY DK	140	55	135	53	130	51
924	Gray Green-VY DK	379	149	365	143	351	138
926	Gray Green-MD	1018	400	979	385	943	371
927	Gray Green-LT	423	166	406	160	391	154
928	Gray Green-VY LT	421	166	405	159	390	153
931	Antique Blue-MD	235	92	226	89	217	85
932	Antique Blue-LT	736	289	708	278	681	268
934	Black Avocado Green	901	354	867	341	835	328
948	Peach-VY LT	86	34	83	33	80	31
950	Desert Sand-LT	137	53	132	51	127	49
3021	Brown Gray -VY DK	1130	444	1086	427	1046	411
3022	Brown Gray -MD	698	274	671	264	646	254
3024	Brown Gray -VY LT	706	277	678	267	653	257
3031	Mocha Brown-VY DK	660	259	634	249	611	240
3032	Mocha Brown-MD	850	334	817	321	787	309
3045	Yellow Beige-DK	41	16	39	15	38	15
3046	Yellow Beige-MD	27	10	26	10	25	9
3064	Desert Sand	288	113	277	109	267	105
3072	Beaver Gray-VY LT	603	237	580	228	559	219
3078	Golden Yellow -VY LT	25	9	24	9	23	9
3354	Dusty Rose-LT	24	9	24	9	23	9
3371	Black Brown	389	153	374	147	360	141
3721	Shell Pink-DK	8	3	8	3	7	3
3722	Shell Pink-MD	6	2	6	2	6	2
3733	Dusty Rose	18	6	17	6	17	6
3743	Antique Violet-VY LT	619	243	595	234	573	225
3752	Antique Blue-VY LT	343	135	330	129	317	125
3753	Antique Blue-UL VY LT	346	136	333	131	321	126
3756	Baby Blue-UL VY LT	883	348	849	334	818	322

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3768	Gray Green-DK	672	264	646	254	622	245
3772	Desert Sand-VY DK	331	130	318	125	307	121
3776	Mahogany-LT	11	4	10	3	10	3
3778	Terra Cotta-LT	24	9	23	8	22	8
3779	Terra Cotta-UL VY LT	46	18	44	17	43	17
3781	Mocha Brown-DK	1138	448	1095	431	1054	415
3782	Mocha Brown-LT	1247	490	1199	471	1155	454
3787	Brown Gray -DK	2700	1063	2596	1022	2500	984
3790	Beige Gray-UL DK	1850	728	1779	700	1713	674
3799	Pewter Gray-VY DK	2149	846	2067	813	1990	783
3809	Turquoise-VY DK	97	38	93	37	90	35
3816	Celadon Green-MD	79	31	76	30	73	29
3823	Yellow-UL Pale	64	25	62	24	59	23
3825	Pumpkin-Pale	14	5	14	5	13	5
3828	Hazelnut Brown	15	6	15	6	14	5
3830	Terra Cotta-MD	5	1	5	1	5	1
3841	Baby Blue-Pale	1252	492	1204	474	1159	456
3853	Autumn Gold-DK	15	6	15	6	14	5
3855	Autumn Gold-LT	58	22	56	21	54	21
3856	Mahogany-UL VY LT	40	16	39	15	37	15
3861	Cocoa-LT	911	359	876	345	843	332
3862	Mocha Beige-DK	602	237	579	228	557	219
3863	Mocha Beige-MD	821	323	789	310	760	299
3865	Winter White	1438	566	1383	544	1331	524

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	1751	689	1634	643	1532	603
223	Shell Pink-LT	60	23	56	22	52	20
224	Shell Pink-VY LT	44	17	41	16	39	15
310	Black	2235	879	2086	821	1956	770
317	Pewter Gray	2553	1005	2383	938	2234	879
318	Steel Gray-LT	782	307	730	287	684	269
341	Blue Violet-LT	369	145	344	135	323	127
347	Salmon-VY DK	4	1	4	1	3	1
351	Coral	14	5	13	5	12	5
352	Coral-LT	24	9	23	8	21	8
353	Peach	25	10	23	9	22	8
356	Terra Cotta-MD	55	21	52	20	48	19
407	Desert Sand-DK	131	51	122	48	115	45
413	Pewter Gray -DK	1418	558	1324	521	1241	488
414	Steel Gray-DK	1868	735	1743	686	1634	643
415	Pearl Gray	1358	534	1267	499	1188	467
420	Hazelnut Brown-DK	136	53	127	50	119	47
437	Tan-LT	179	70	167	65	157	61
451	Shell Gray-DK	1022	402	954	375	894	352
452	Shell Gray-MD	435	171	406	160	380	150
453	Shell Gray-LT	556	219	519	204	487	191
503	Blue Green-MD	145	57	136	53	127	50
535	Ash Gray-VY LT	910	358	849	334	796	313
605	Cranberry-VY LT	19	7	17	7	16	6
610	Drab Brown-DK	1302	512	1215	478	1139	448
611	Drab Brown	204	80	190	74	178	70
612	Drab Brown-LT	82	32	76	30	71	28
632	Desert Sand-UL VY DK	253	100	236	93	222	87
640	Beige Gray-VY DK	1860	732	1736	683	1628	641

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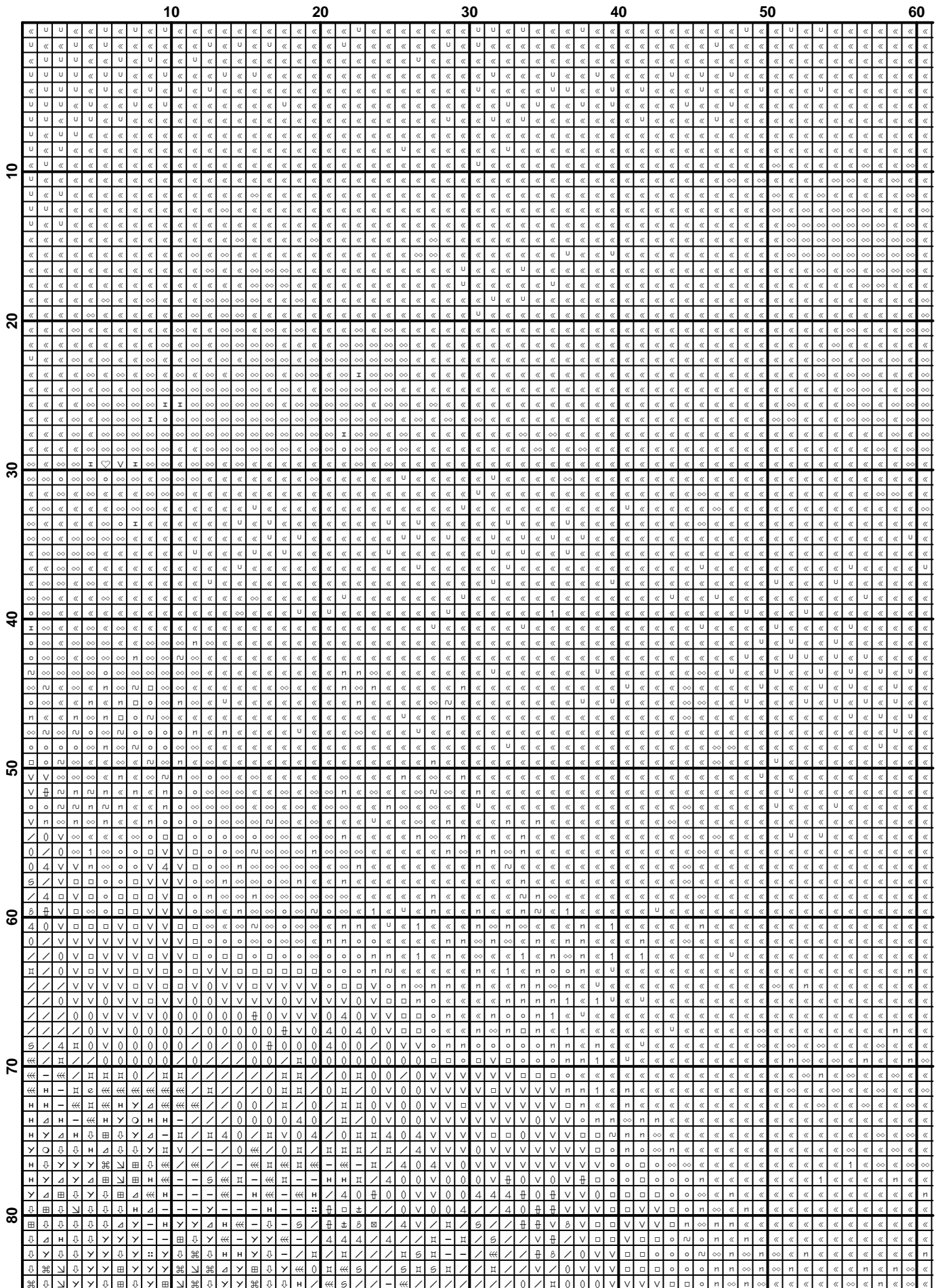
645	Beaver Gray-VY DK	881	347	823	323	771	303
647	Beaver Gray-MD	932	366	870	342	816	321
648	Beaver Gray-LT	591	233	552	217	518	204
676	Old Gold-LT	14	5	13	5	12	5
677	Old Gold-VY LT	14	5	13	5	12	5
712	Cream	244	96	227	89	213	84
722	Orange Spice-LT	17	6	16	6	15	6
738	Tan-VY LT	142	56	133	52	124	49
739	Tan-UL VY LT	138	54	129	50	121	47
747	Sky Blue-VY LT	1157	455	1080	425	1013	398
754	Peach-LT	48	19	44	17	42	16
758	Terra Cotta-VY LT	114	44	106	41	100	39
762	Pearl Gray-VY LT	1437	566	1342	528	1258	495
819	Baby Pink-LT	104	41	97	38	91	35
838	Beige Brown-VY DK	145	57	136	53	127	50
839	Beige Brown-DK	1580	622	1475	580	1383	544
844	Beaver Brown-UL DK	960	377	896	352	840	330
869	Hazelnut Brown-VY DK	151	59	141	55	132	52
898	Coffee Brown-VY DK	125	49	117	46	110	43
924	Gray Green-VY DK	339	133	316	124	296	116
926	Gray Green-MD	909	357	848	334	795	313
927	Gray Green-LT	377	149	352	139	330	130
928	Gray Green-VY LT	376	148	351	138	329	129
931	Antique Blue-MD	210	82	196	77	183	72
932	Antique Blue-LT	657	258	613	241	575	226
934	Black Avocado Green	805	316	751	295	704	277
948	Peach-VY LT	77	30	72	28	68	26
950	Desert Sand-LT	122	48	114	44	107	42
3021	Brown Gray -VY DK	1009	397	941	370	883	347
3022	Brown Gray -MD	623	245	581	229	545	214
3024	Brown Gray -VY LT	630	248	588	231	551	217
3031	Mocha Brown-VY DK	589	231	550	216	515	203
3032	Mocha Brown-MD	759	298	708	278	664	261
3045	Yellow Beige-DK	37	14	34	13	32	12
3046	Yellow Beige-MD	24	9	23	8	21	8
3064	Desert Sand	257	101	240	94	225	88
3072	Beaver Gray-VY LT	539	212	503	197	471	185
3078	Golden Yellow -VY LT	23	8	21	8	20	7
3354	Dusty Rose-LT	22	8	20	8	19	7
3371	Black Brown	347	136	324	127	304	119
3721	Shell Pink- DK	7	3	7	2	6	2
3722	Shell Pink- MD	6	2	5	2	5	2
3733	Dusty Rose	16	6	15	5	14	5
3743	Antique Violet-VY LT	553	217	516	203	484	190
3752	Antique Blue-VY LT	306	120	286	112	268	105
3753	Antique Blue-UL VY LT	309	122	289	113	271	106
3756	Baby Blue-UL VY LT	789	311	736	290	690	272
3768	Gray Green-DK	600	236	560	220	525	206
3772	Desert Sand-VY DK	296	116	276	109	259	102
3776	Mahogany-LT	10	3	9	3	8	3
3778	Terra Cotta-LT	21	8	20	7	19	7
3779	Terra Cotta-UL VY LT	41	16	38	15	36	14
3781	Mocha Brown-DK	1016	400	949	373	889	350
3782	Mocha Brown-LT	1113	438	1039	409	974	383
3787	Brown Gray -DK	2411	949	2250	886	2109	830
3790	Beige Gray-UL DK	1652	650	1541	607	1445	569
3799	Pewter Gray -VY DK	1919	755	1791	705	1679	661
3809	Turquoise-VY DK	87	34	81	32	76	30
3816	Celadon Green-MD	71	28	66	26	62	24

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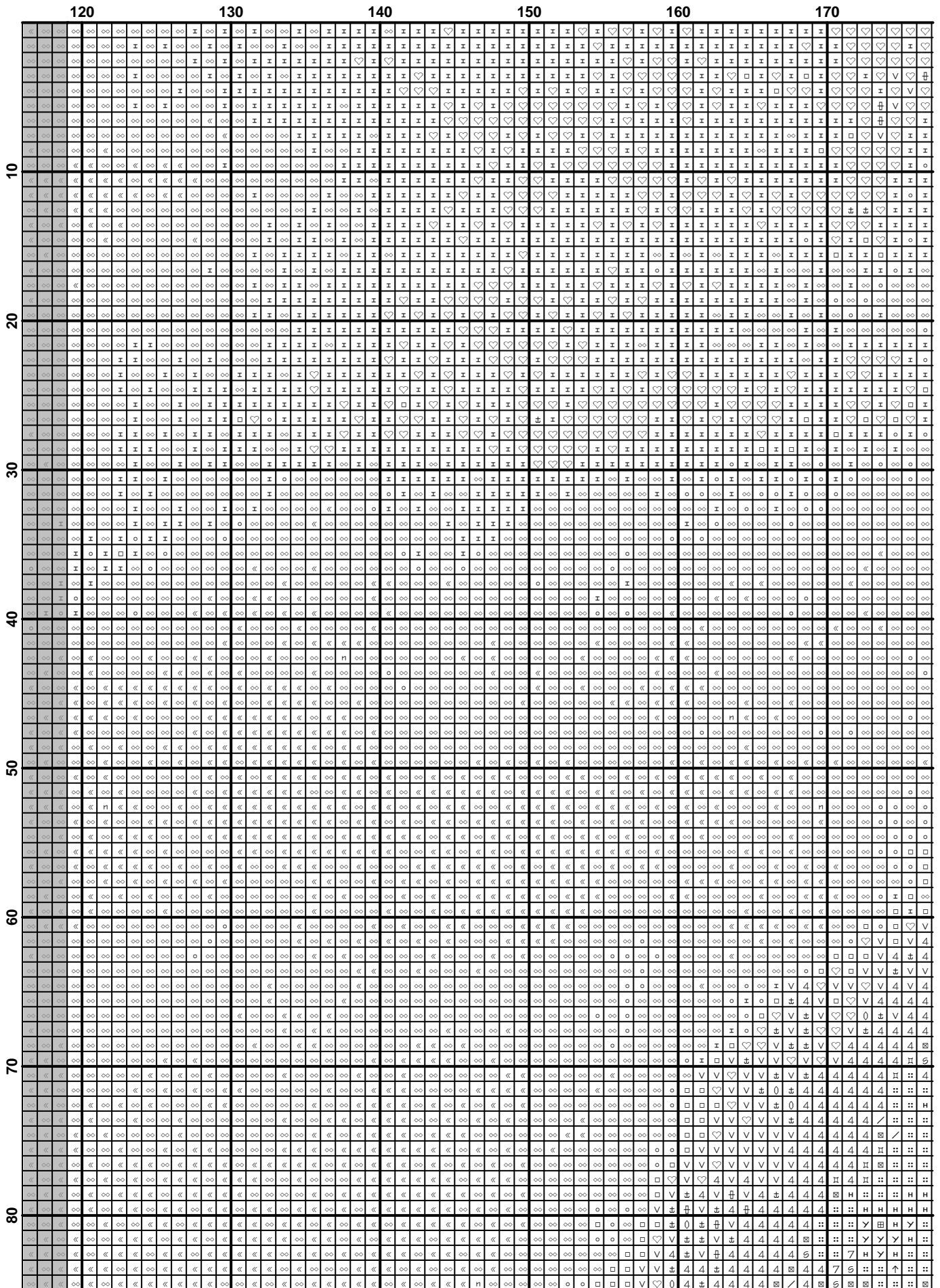
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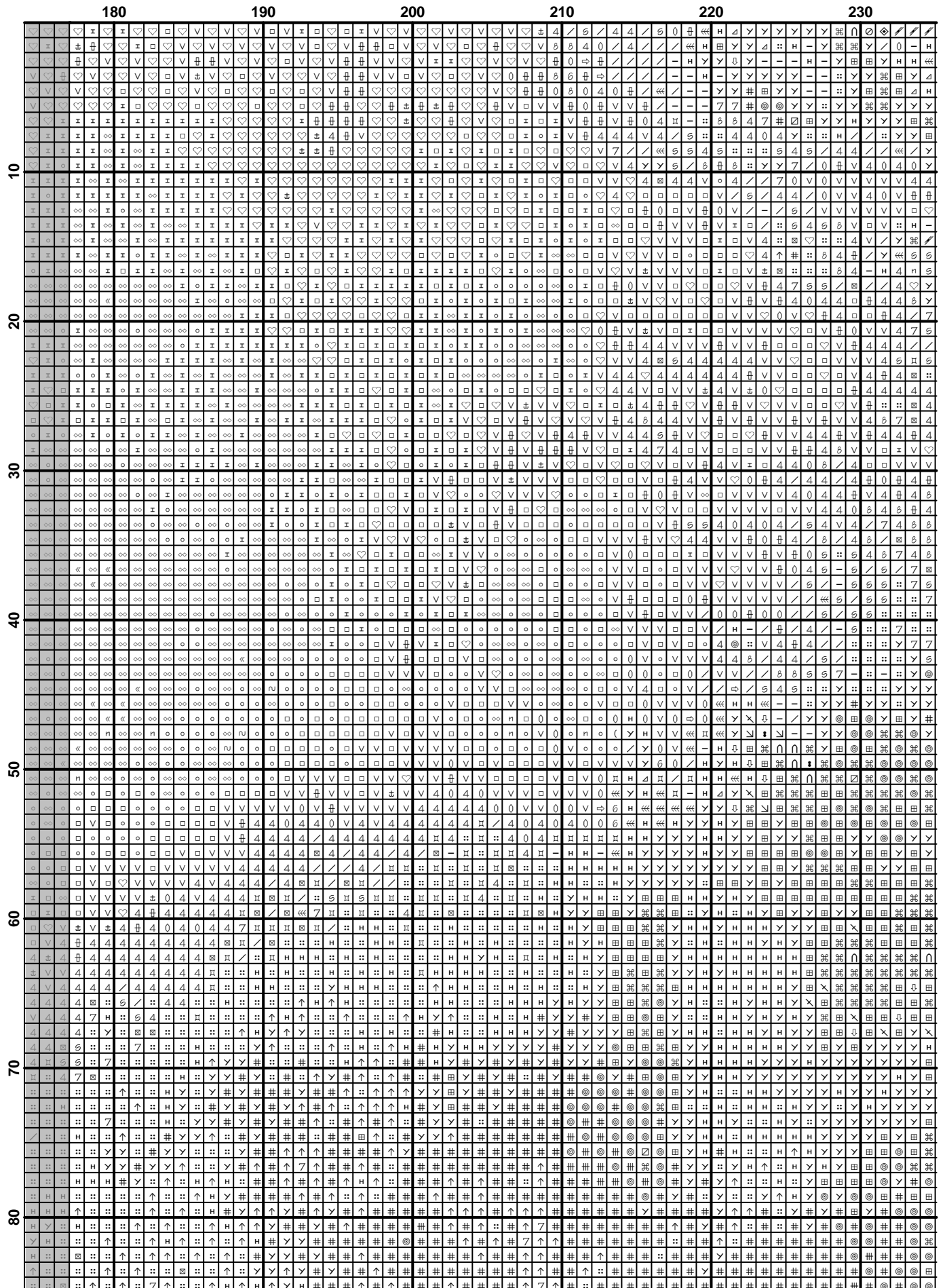
3823	Yellow -UL Pale	57	23	53	21	50	20
3825	Pumpkin-Pale	13	5	12	4	11	4
3828	Hazelnut Brown	14	5	13	5	12	5
3830	Terra Cotta-MD	5	1	4	1	4	1
3841	Baby Blue-Pale	1118	440	1043	410	978	385
3853	Autumn Gold-DK	14	5	13	5	12	5
3855	Autumn Gold-LT	52	20	49	19	46	17
3856	Mahogany-UL VY LT	36	14	34	13	32	12
3861	Cocoa-LT	813	320	759	299	712	280
3862	Mocha Beige-DK	537	212	502	197	470	185
3863	Mocha Beige-MD	733	288	684	269	641	252
3865	Winter White	1284	505	1198	472	1123	442

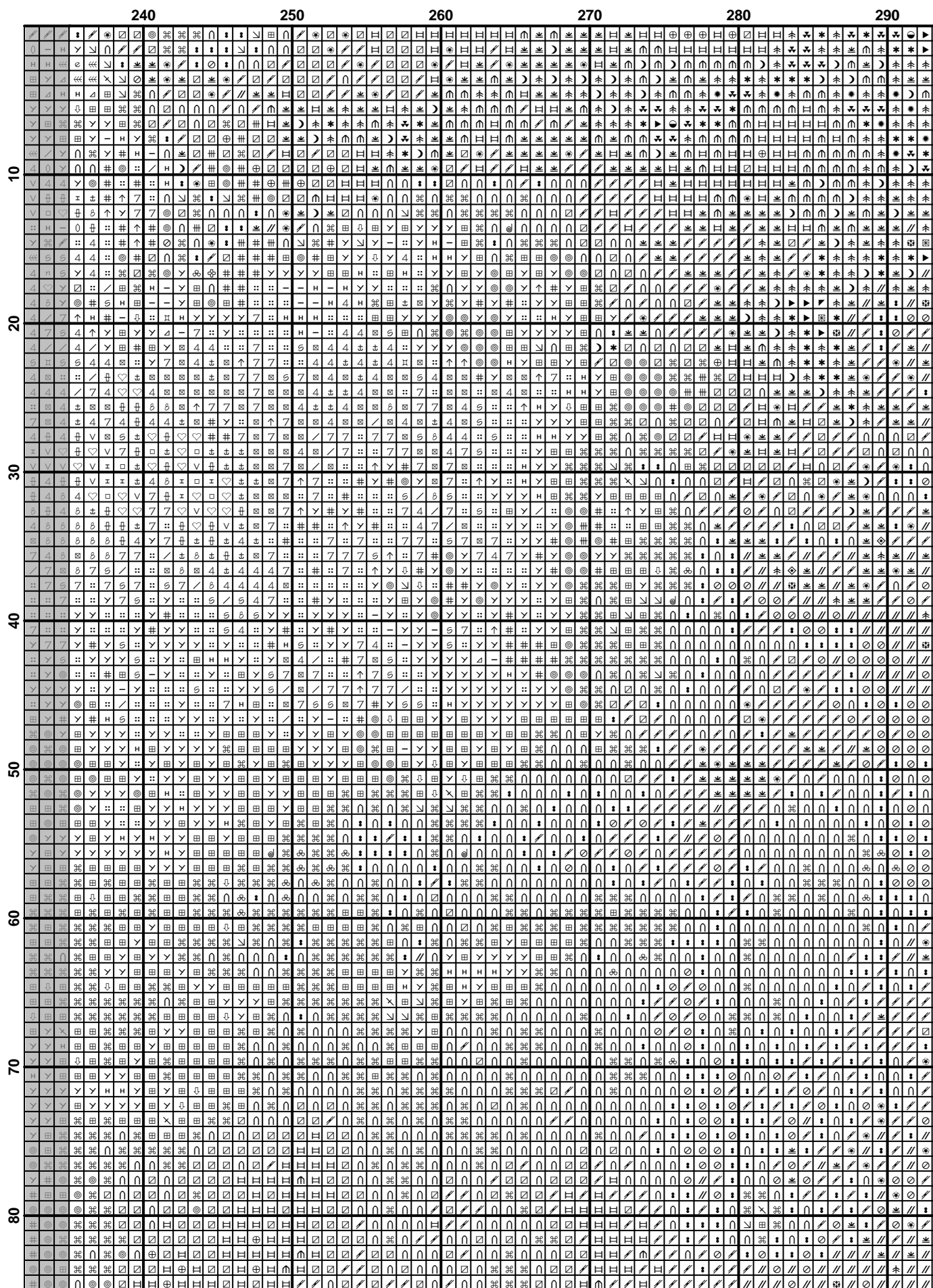


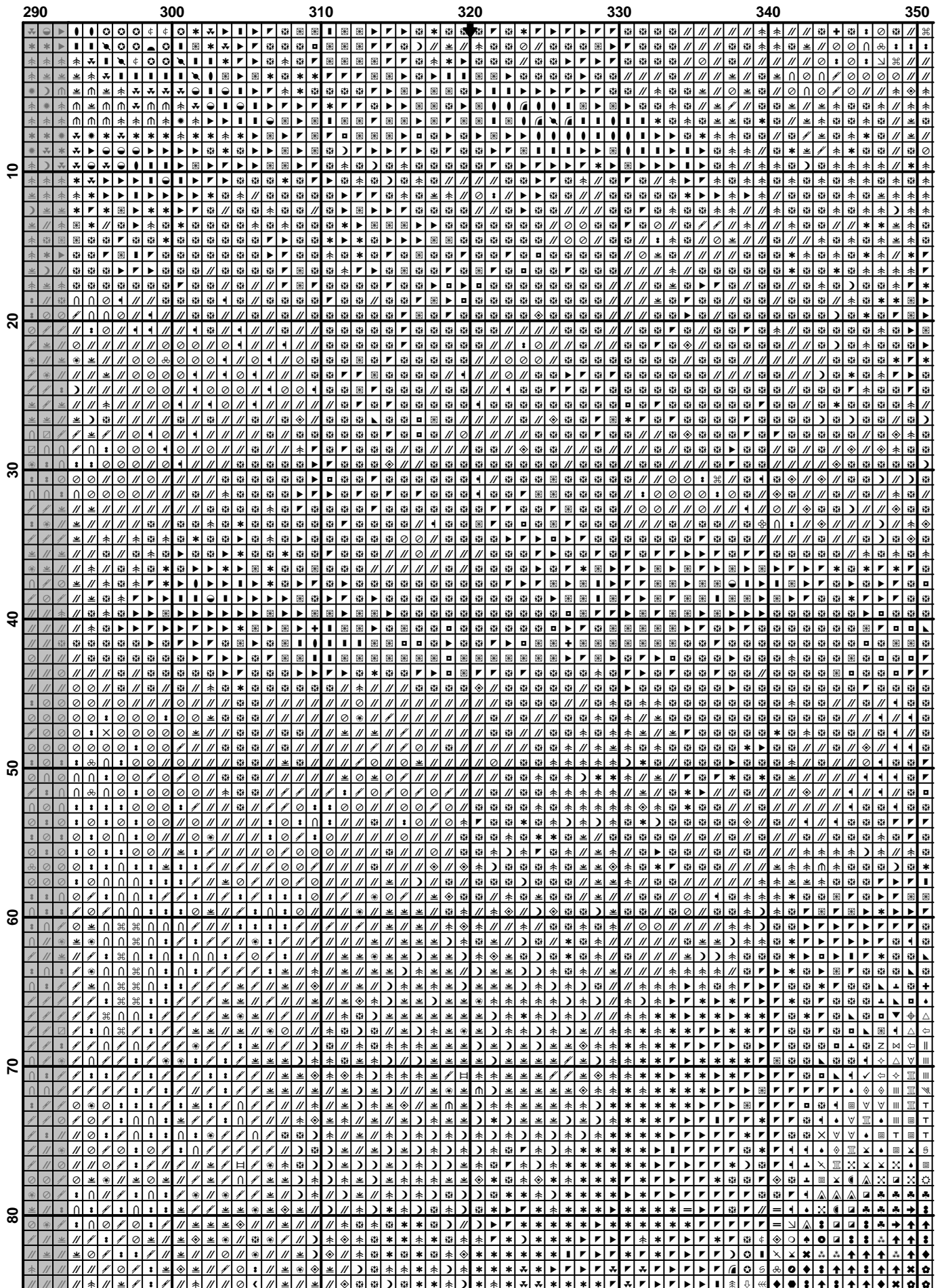


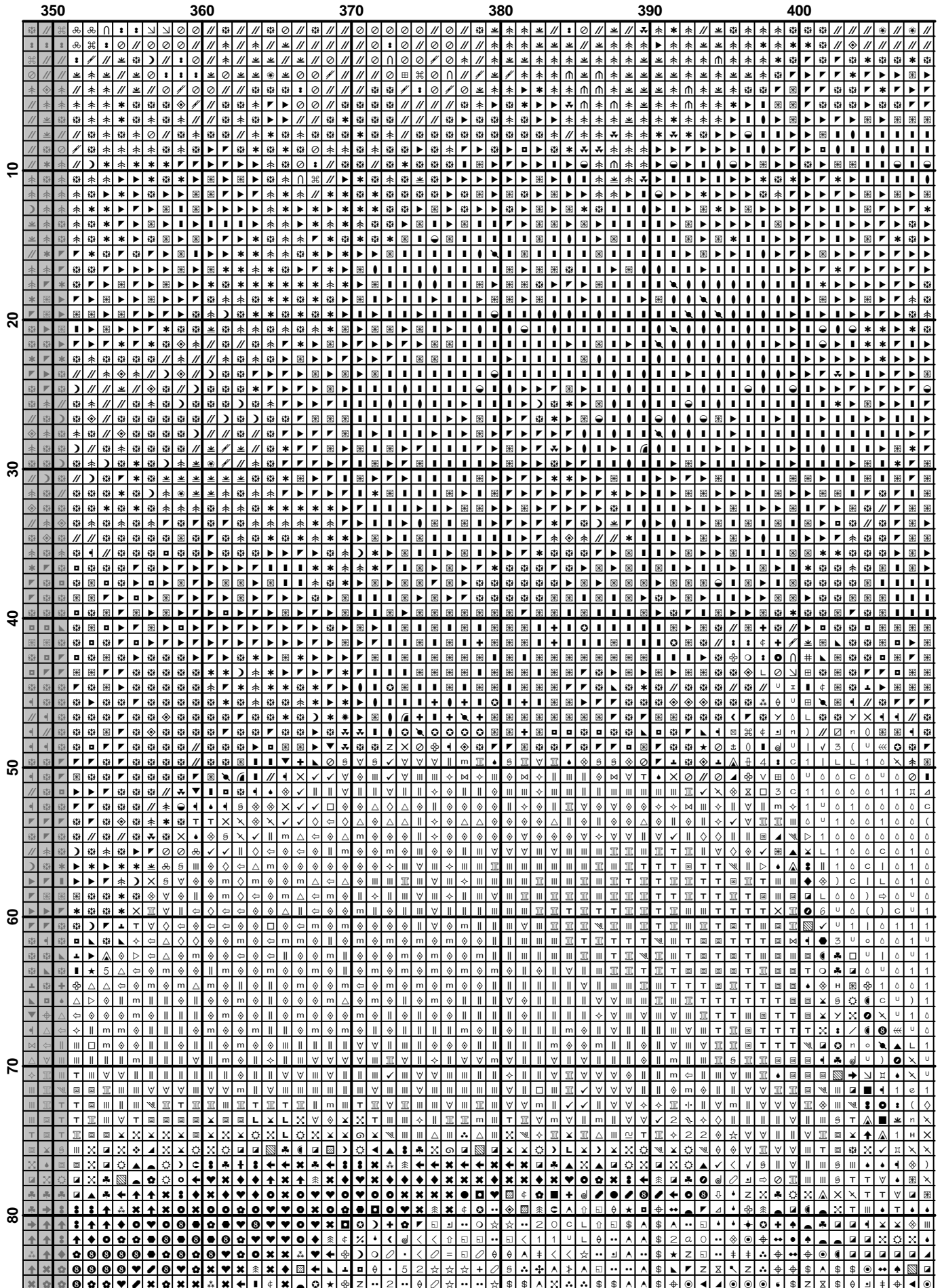
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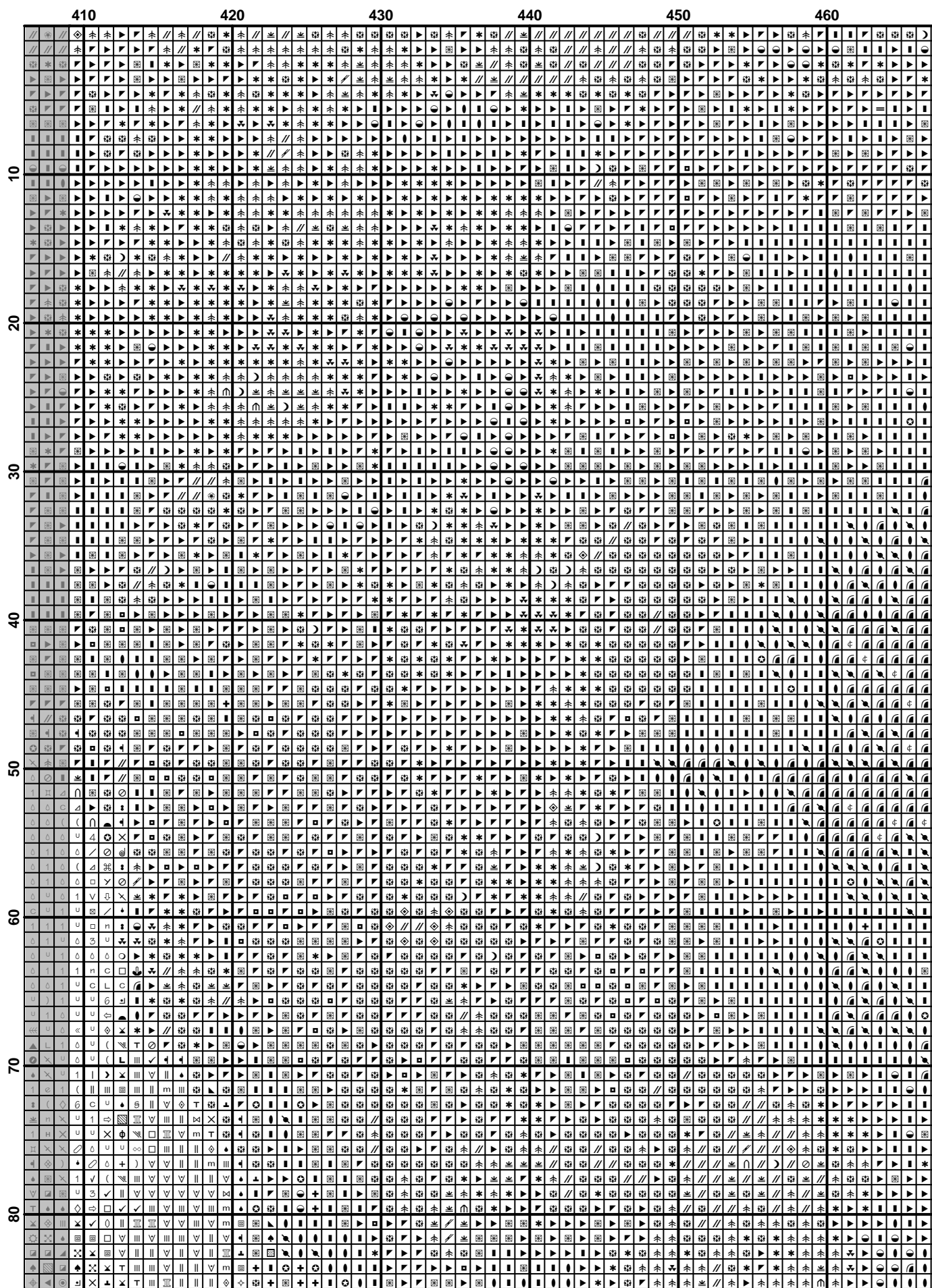




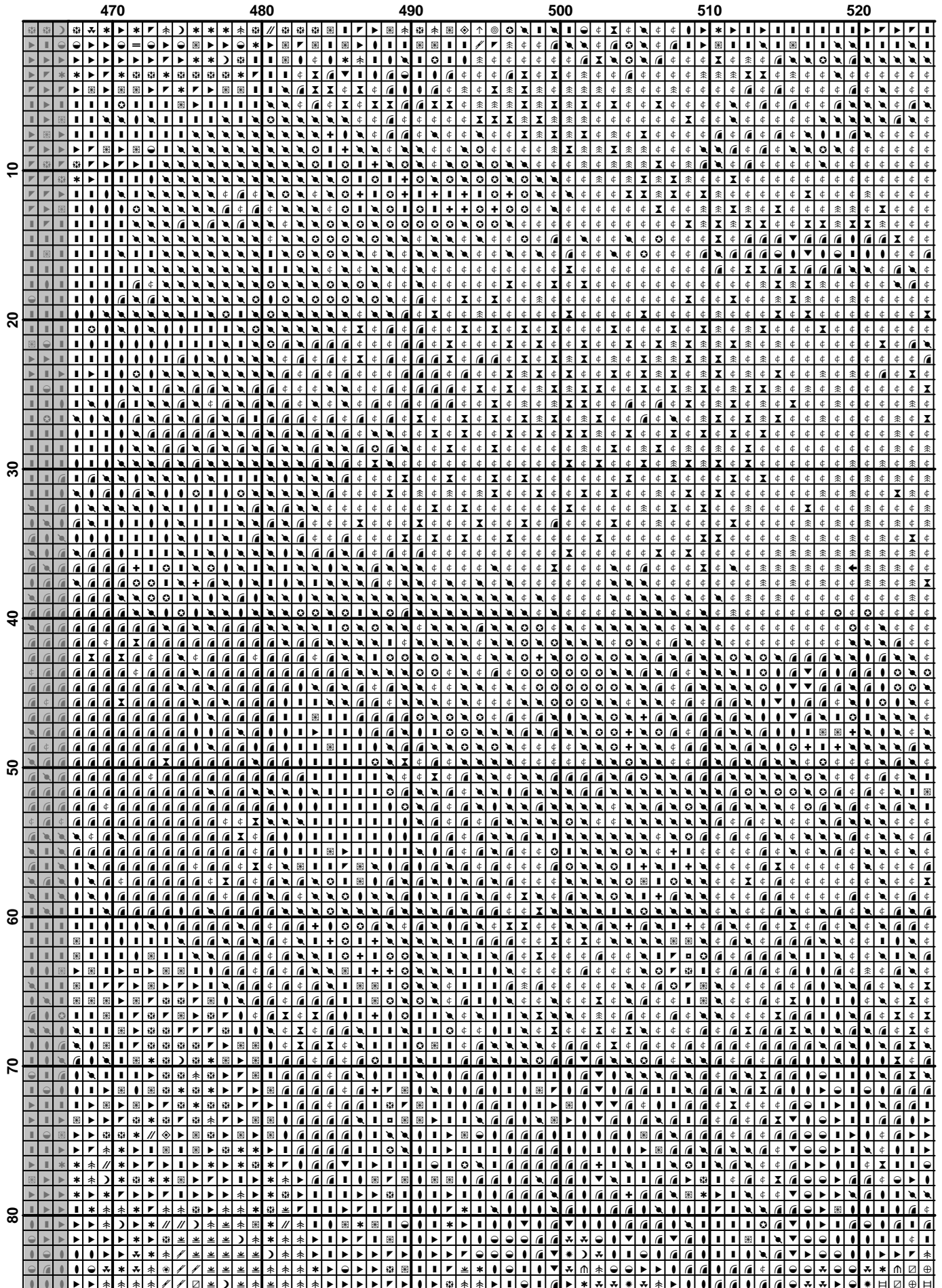


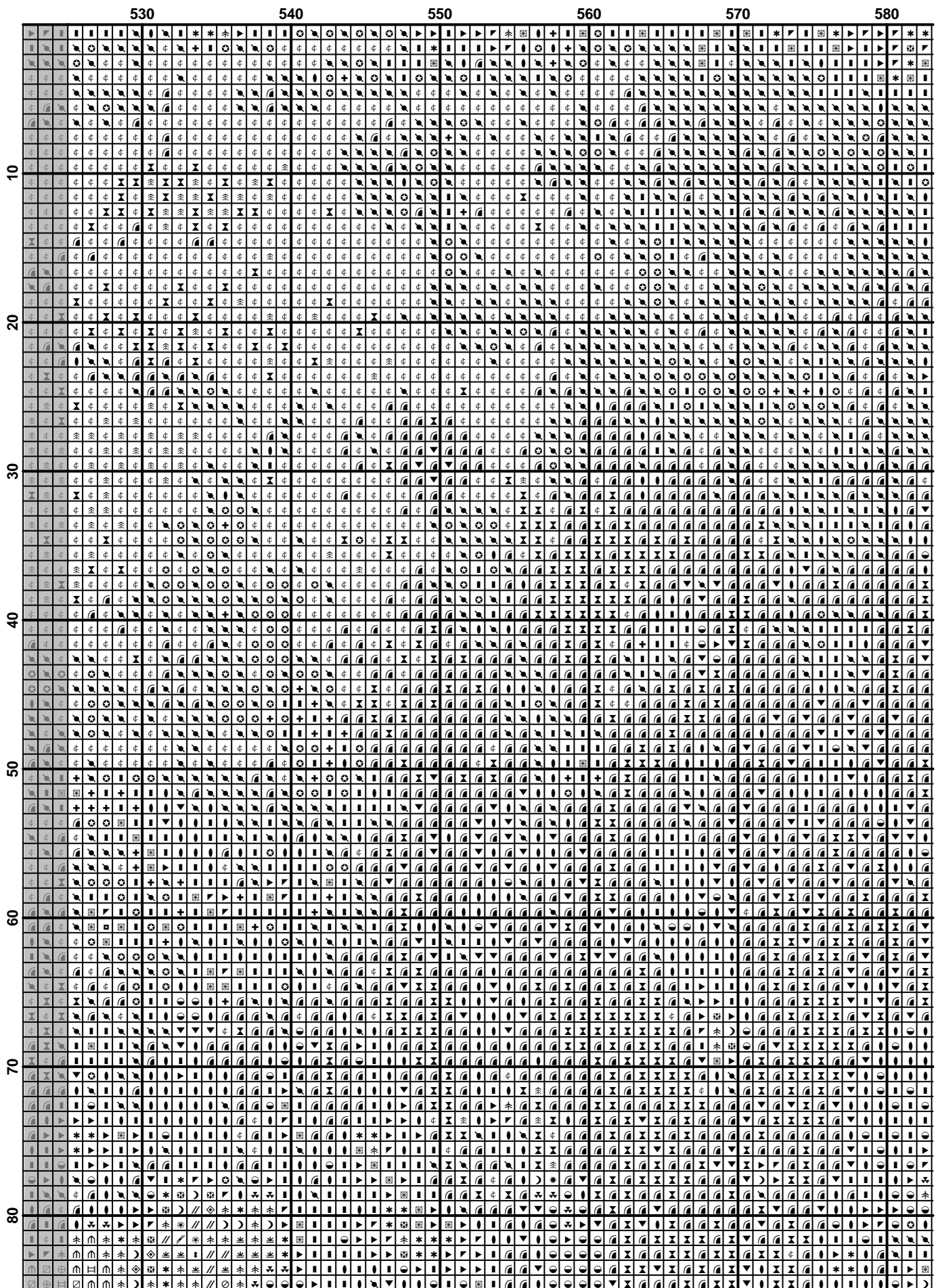


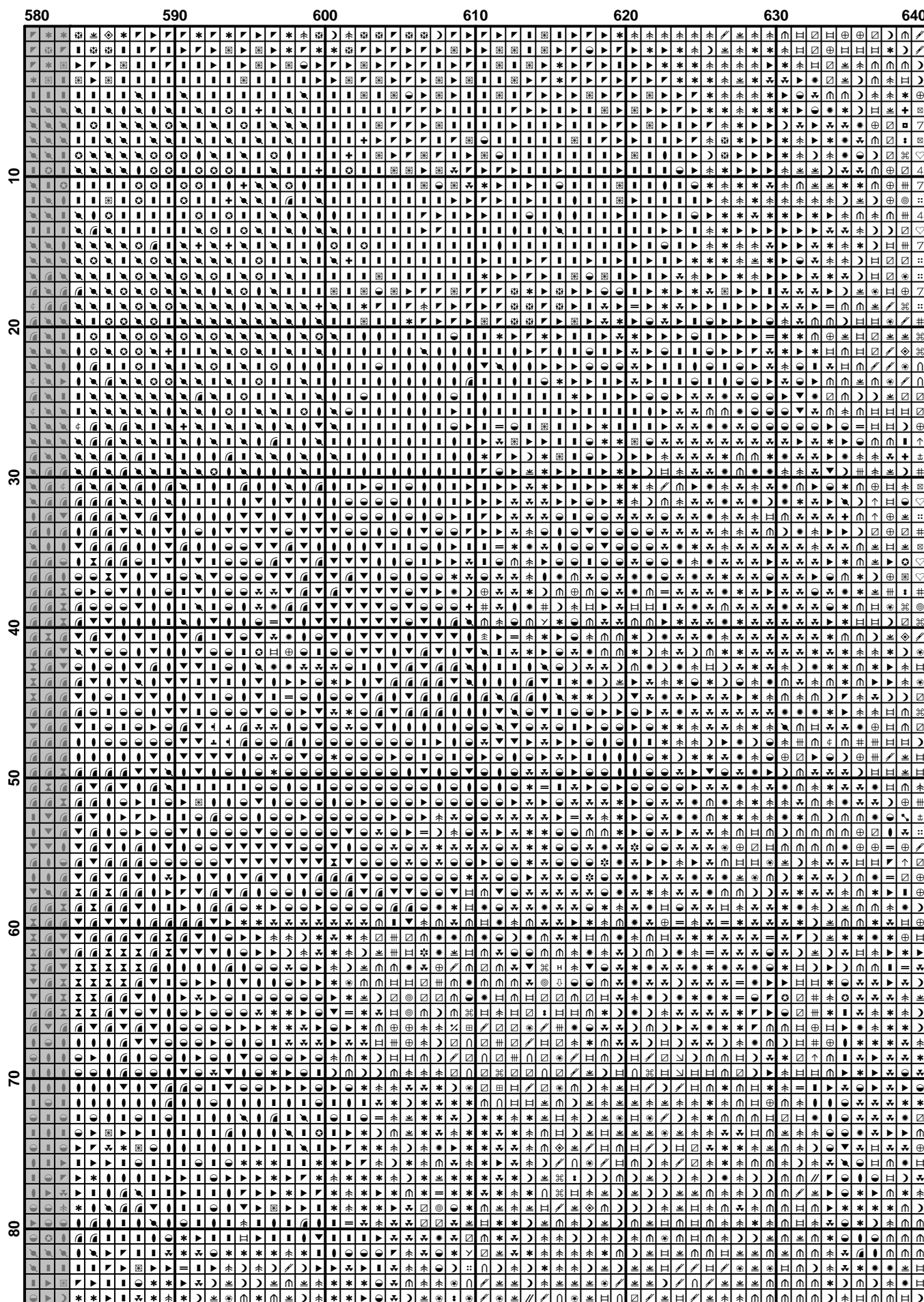




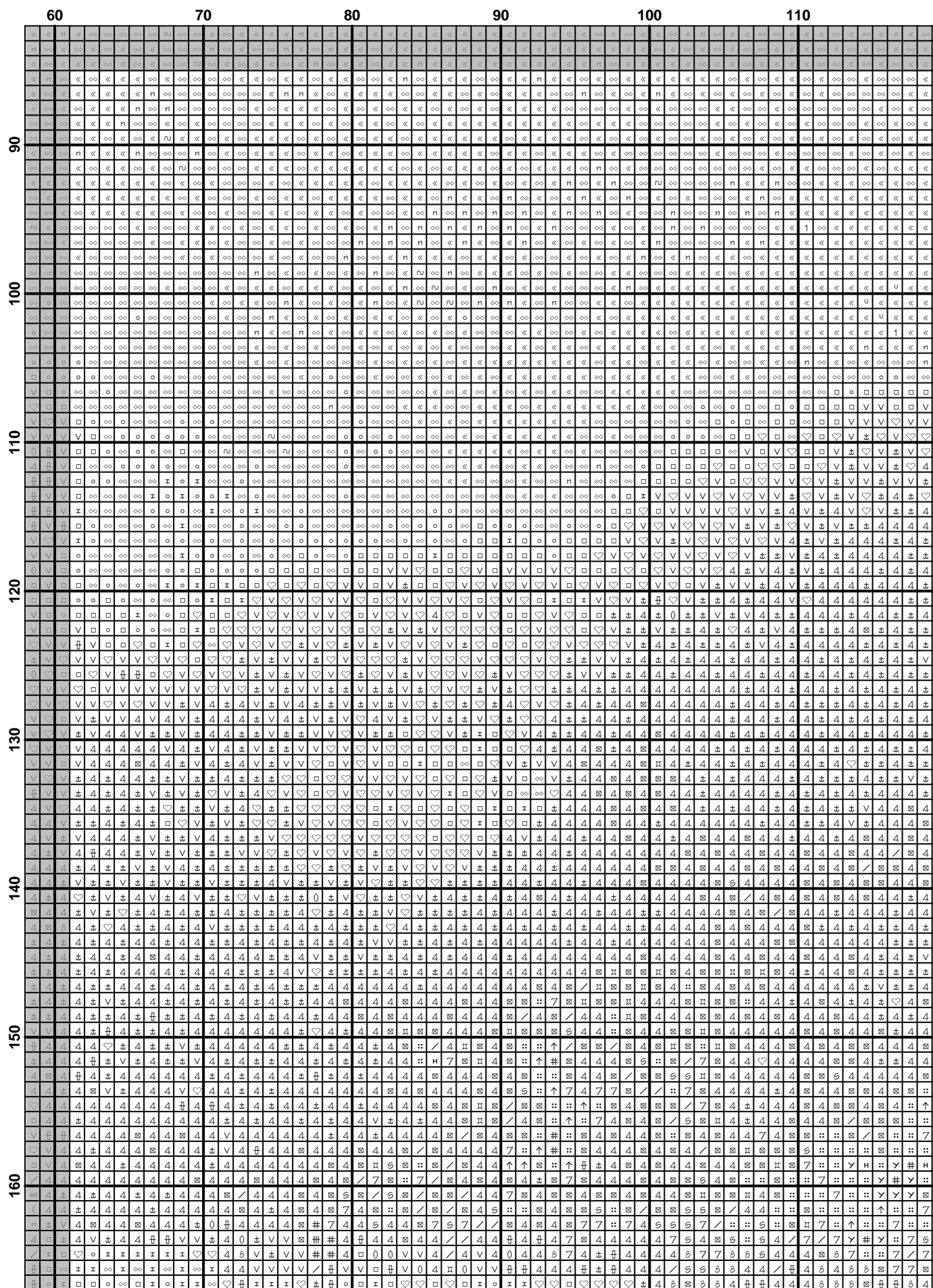


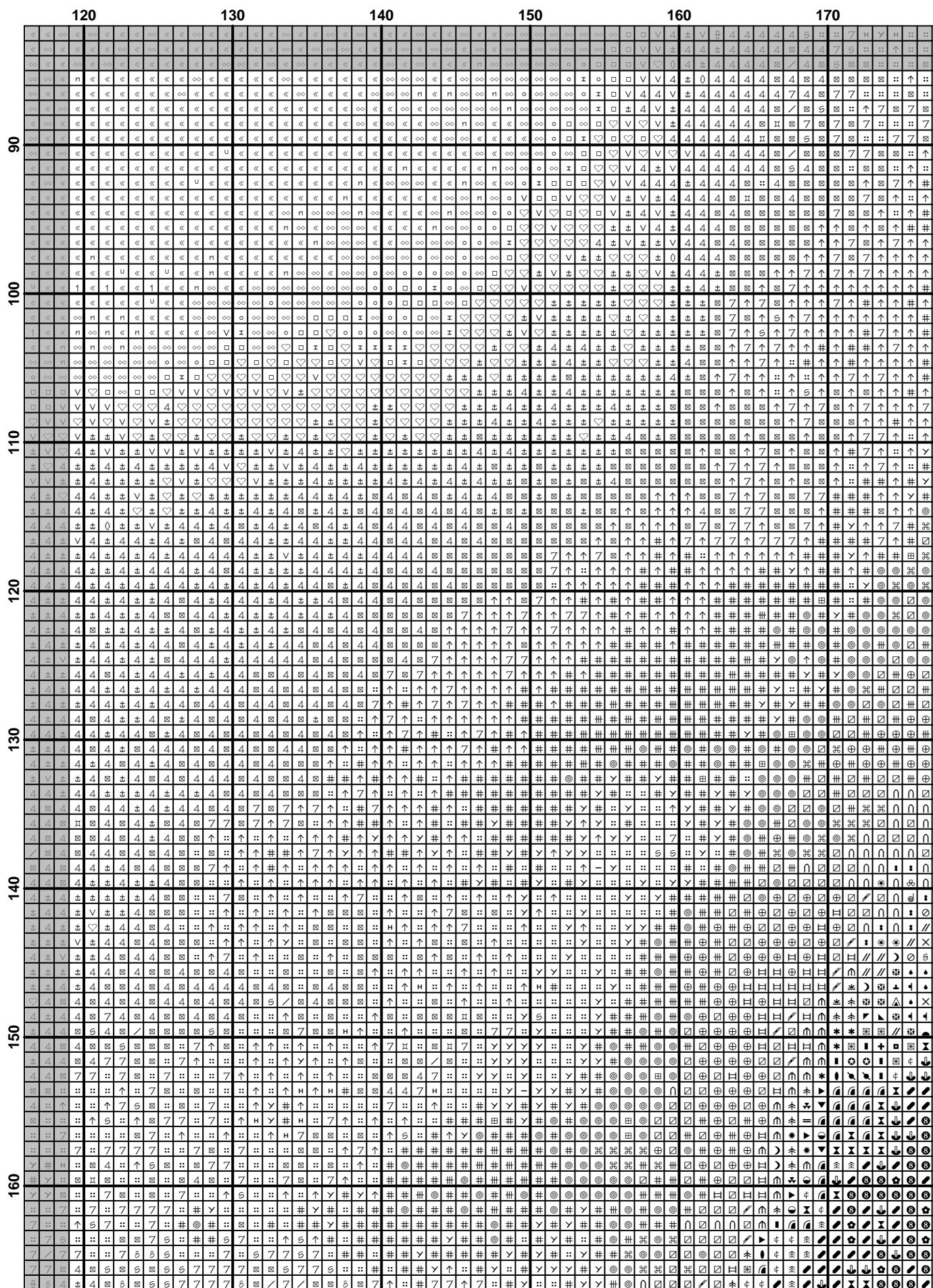


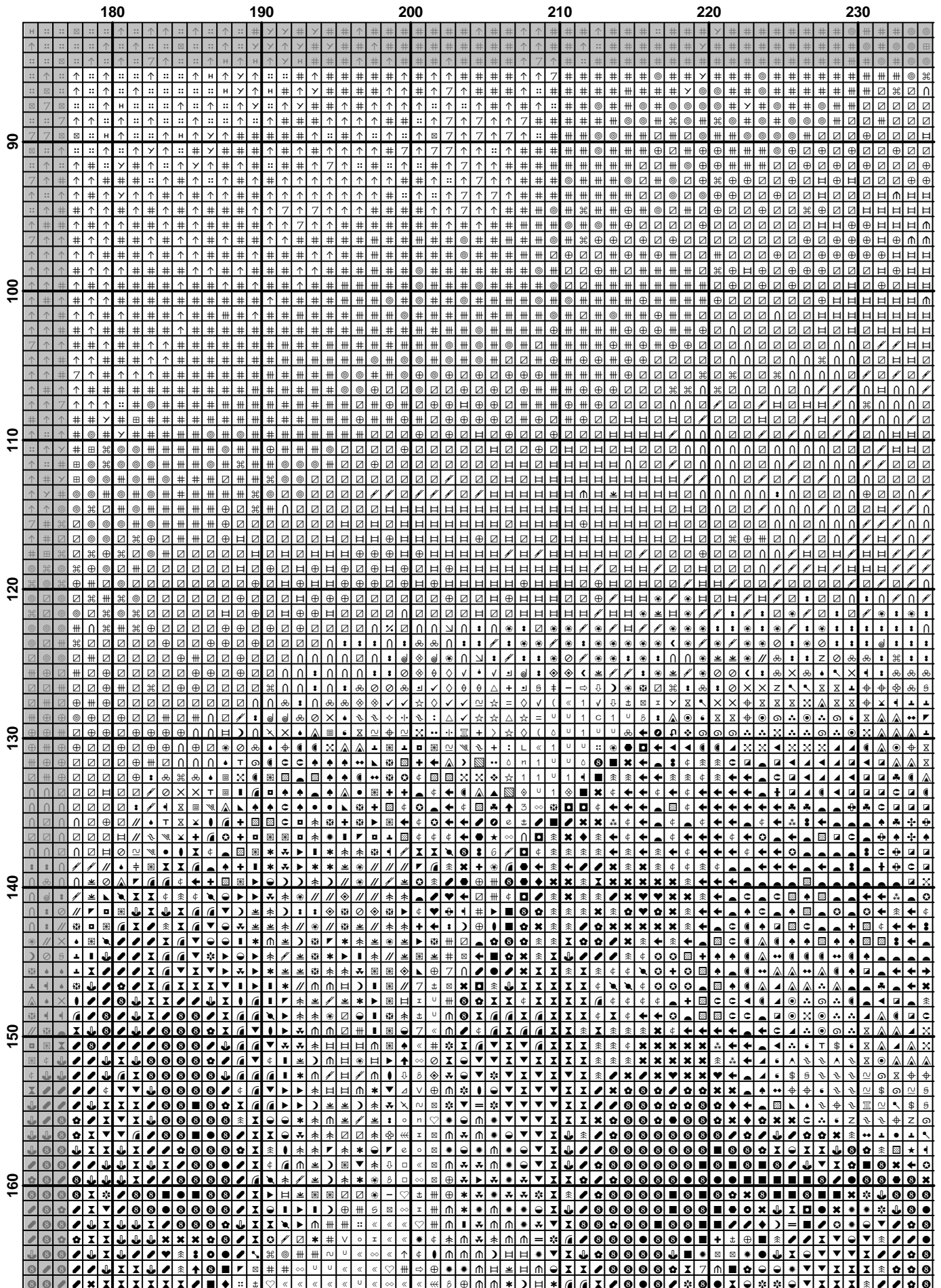




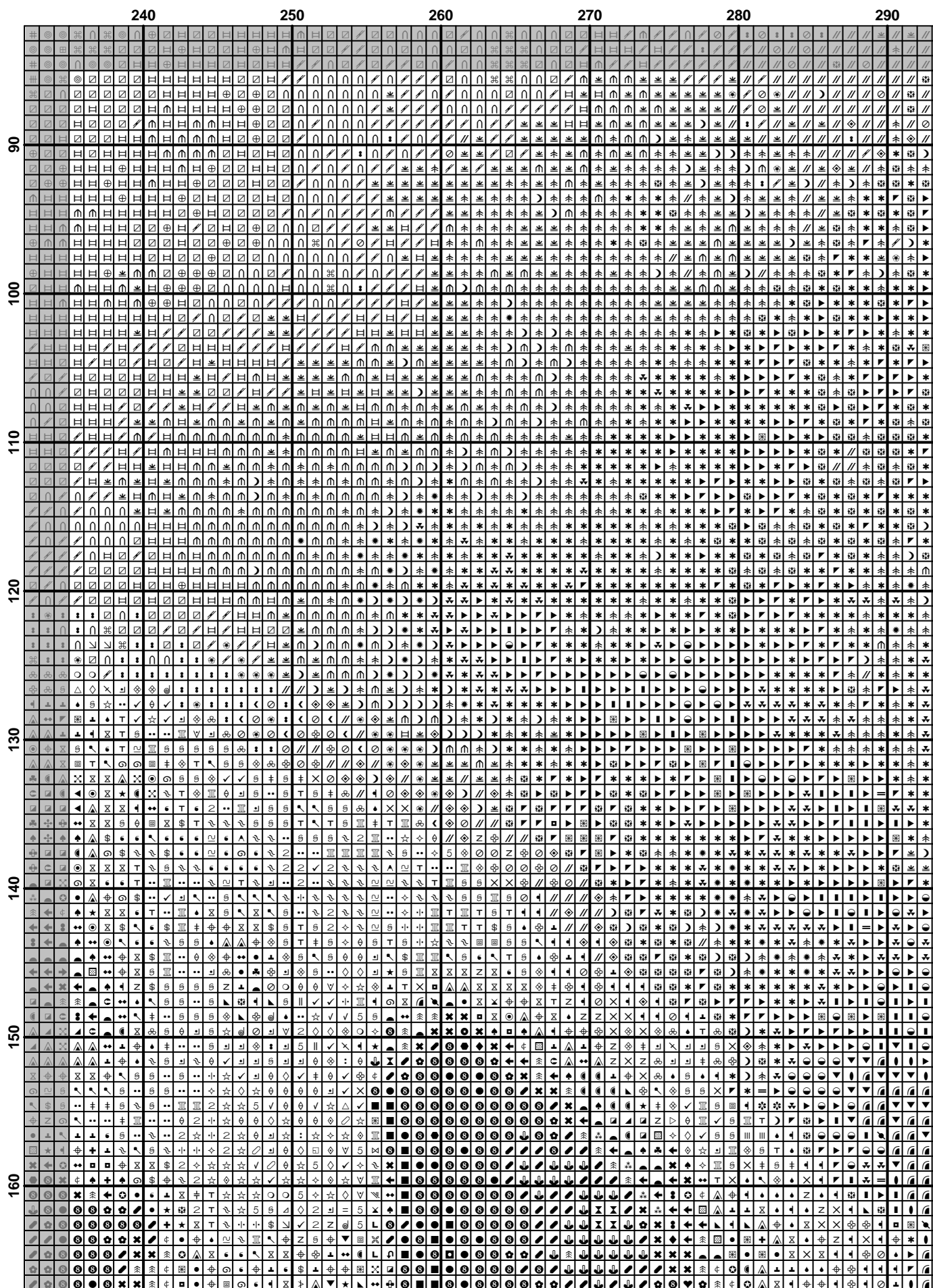
	10	20	30	40	50	60
90	Y	Y	Y	Y	Y	Y
91	Y	Y	Y	Y	Y	Y
92	Y	Y	Y	Y	Y	Y
93	Y	Y	Y	Y	Y	Y
94	Y	Y	Y	Y	Y	Y
95	Y	Y	Y	Y	Y	Y
96	Y	Y	Y	Y	Y	Y
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126	Y	Y	Y	Y	Y	Y
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137	Y	Y	Y	Y	Y	Y
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139	Y	Y	Y	Y	Y	Y
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142	Y	Y	Y	Y	Y	Y
143	Y	Y	Y	Y	Y	Y
144	Y	Y	Y	Y	Y	Y
145	Y	Y	Y	Y	Y	Y
146	Y	Y	Y	Y	Y	Y
147	Y	Y	Y	Y	Y	Y
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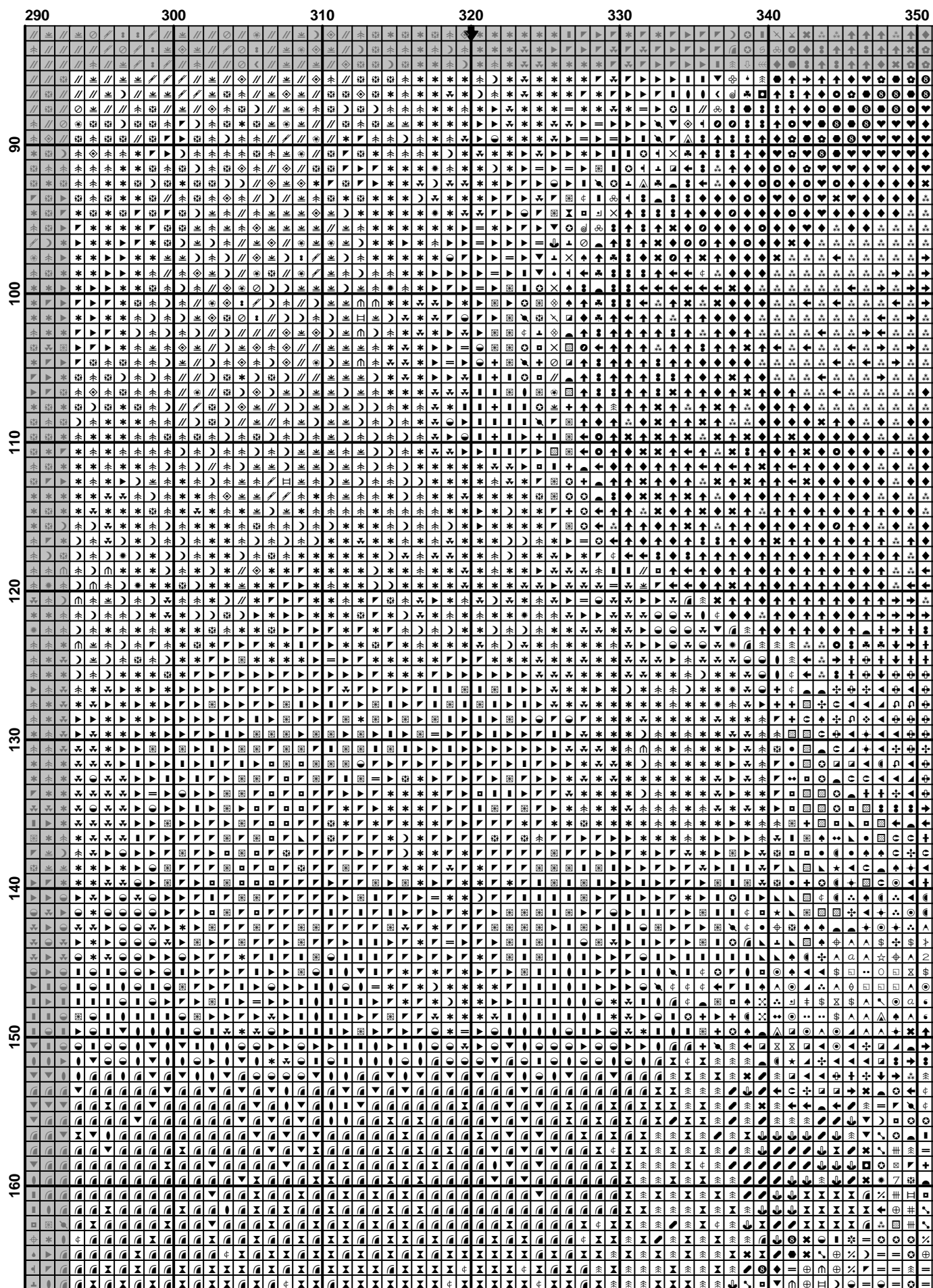




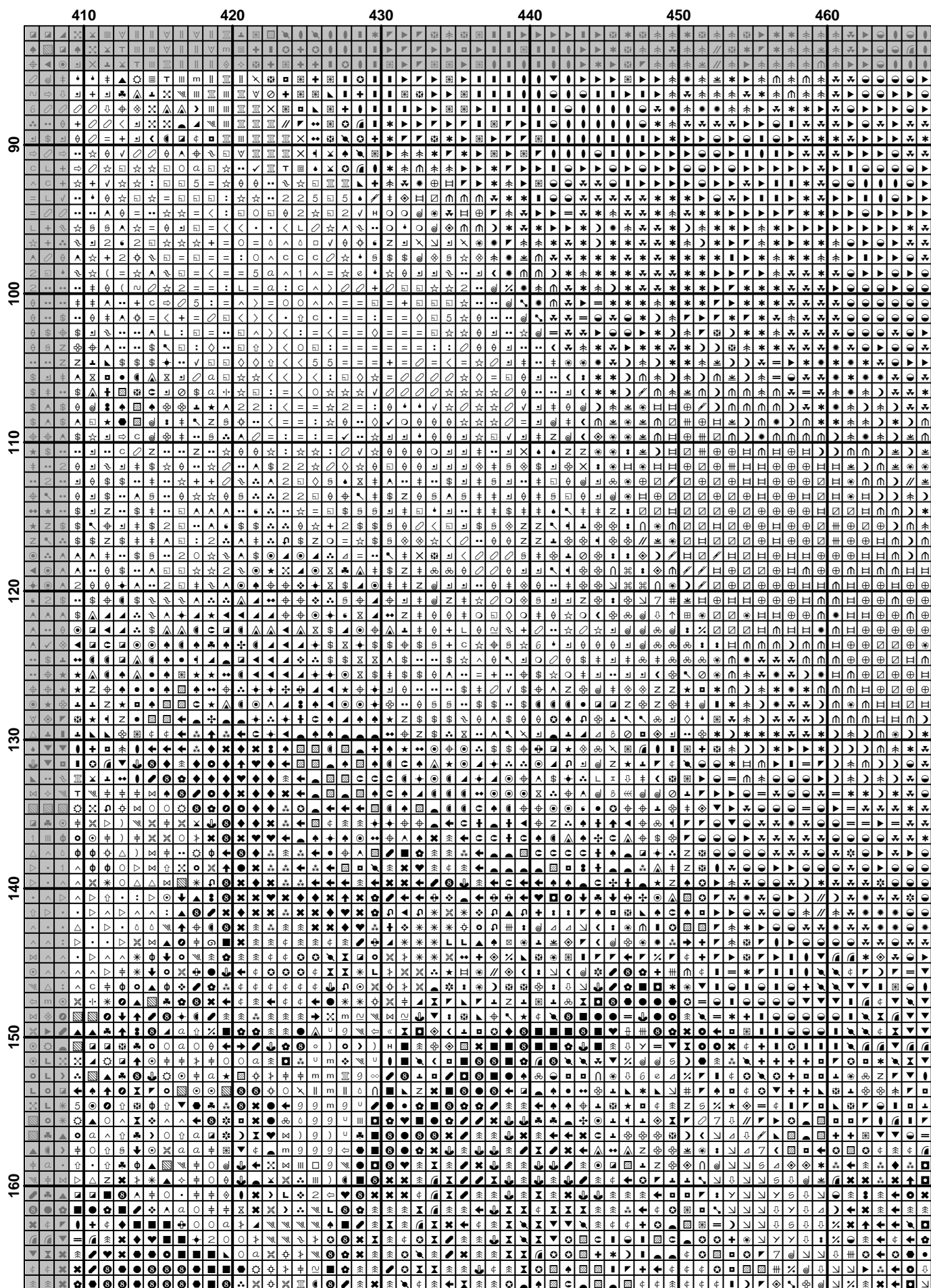


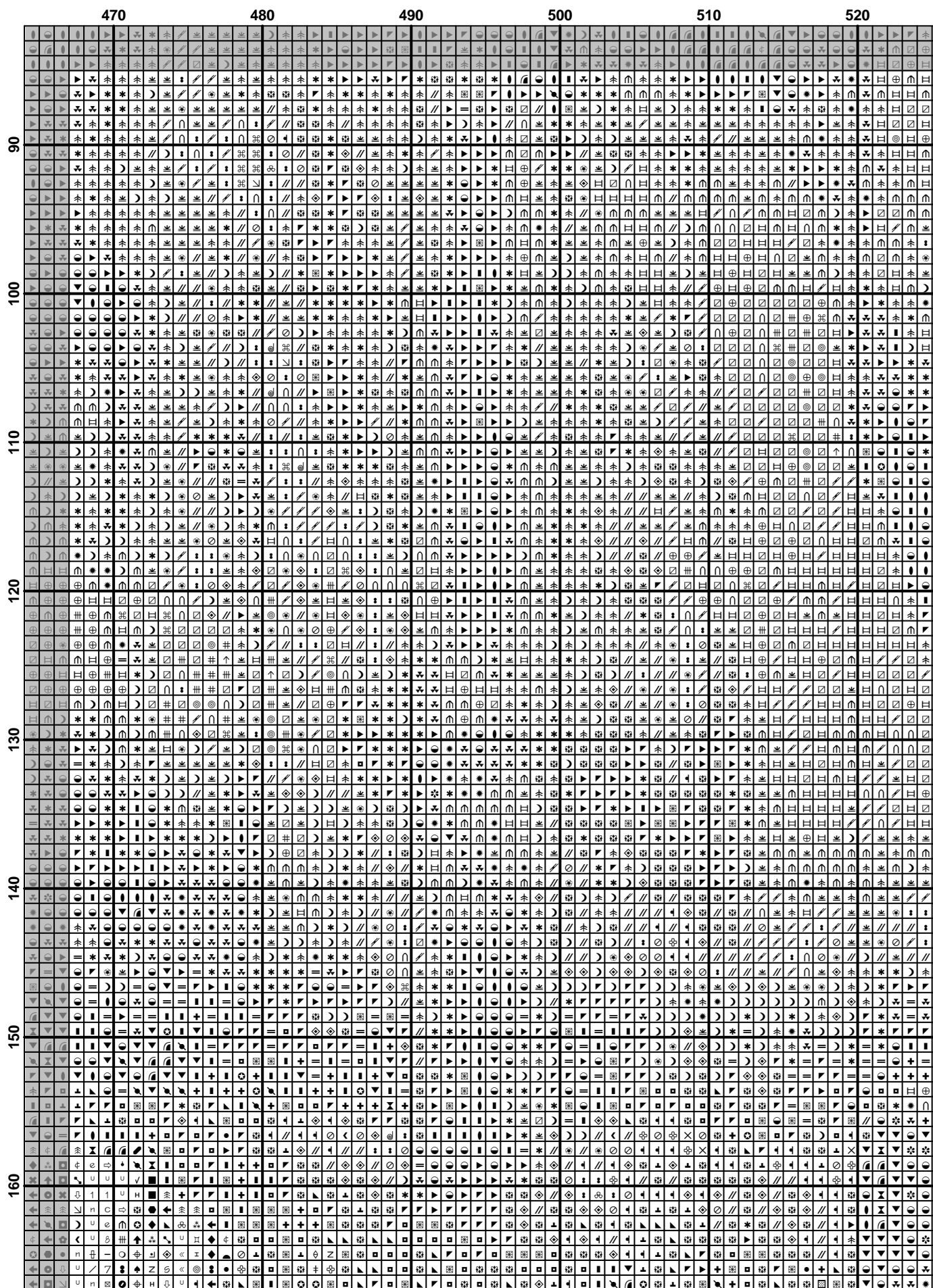


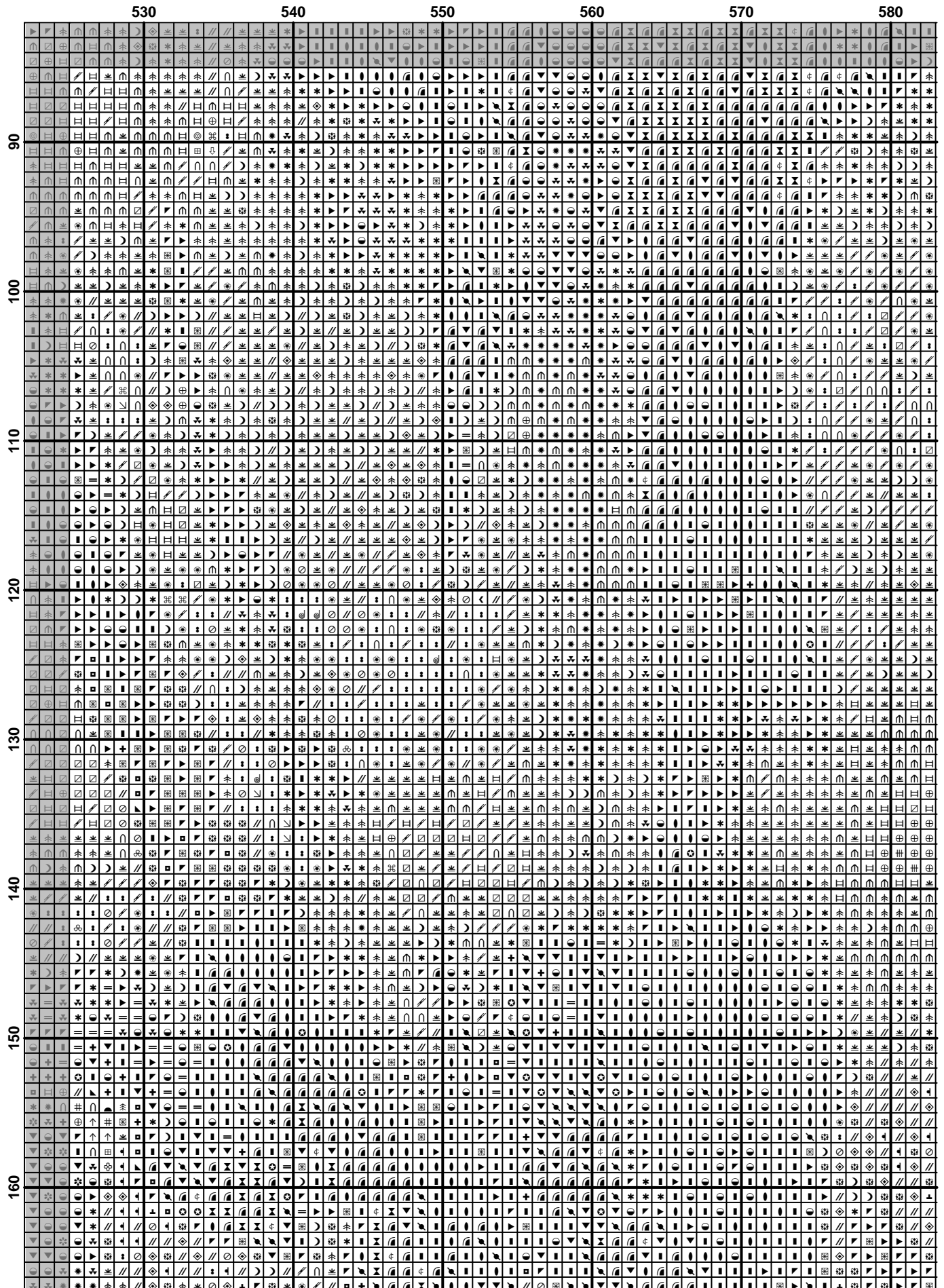


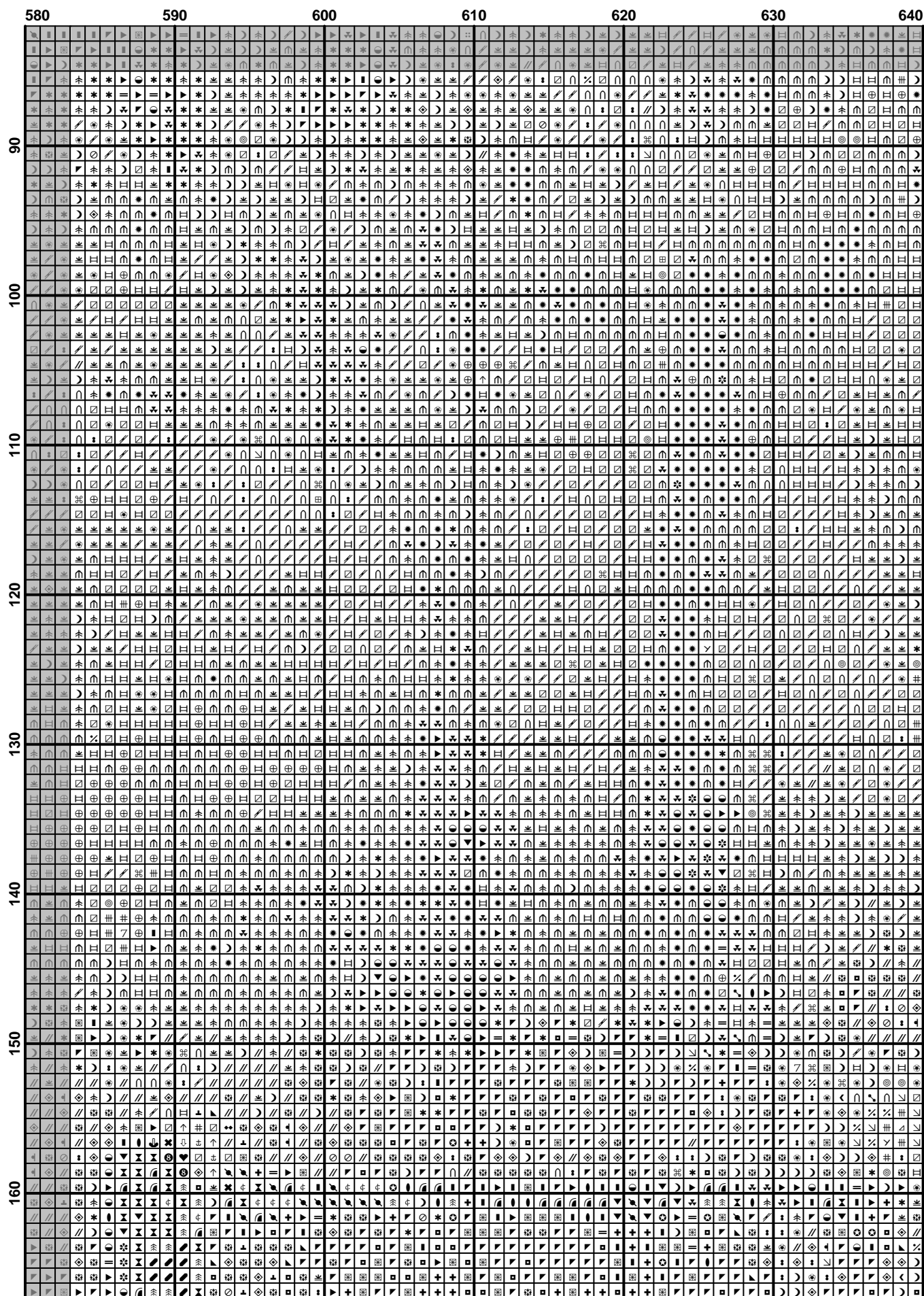


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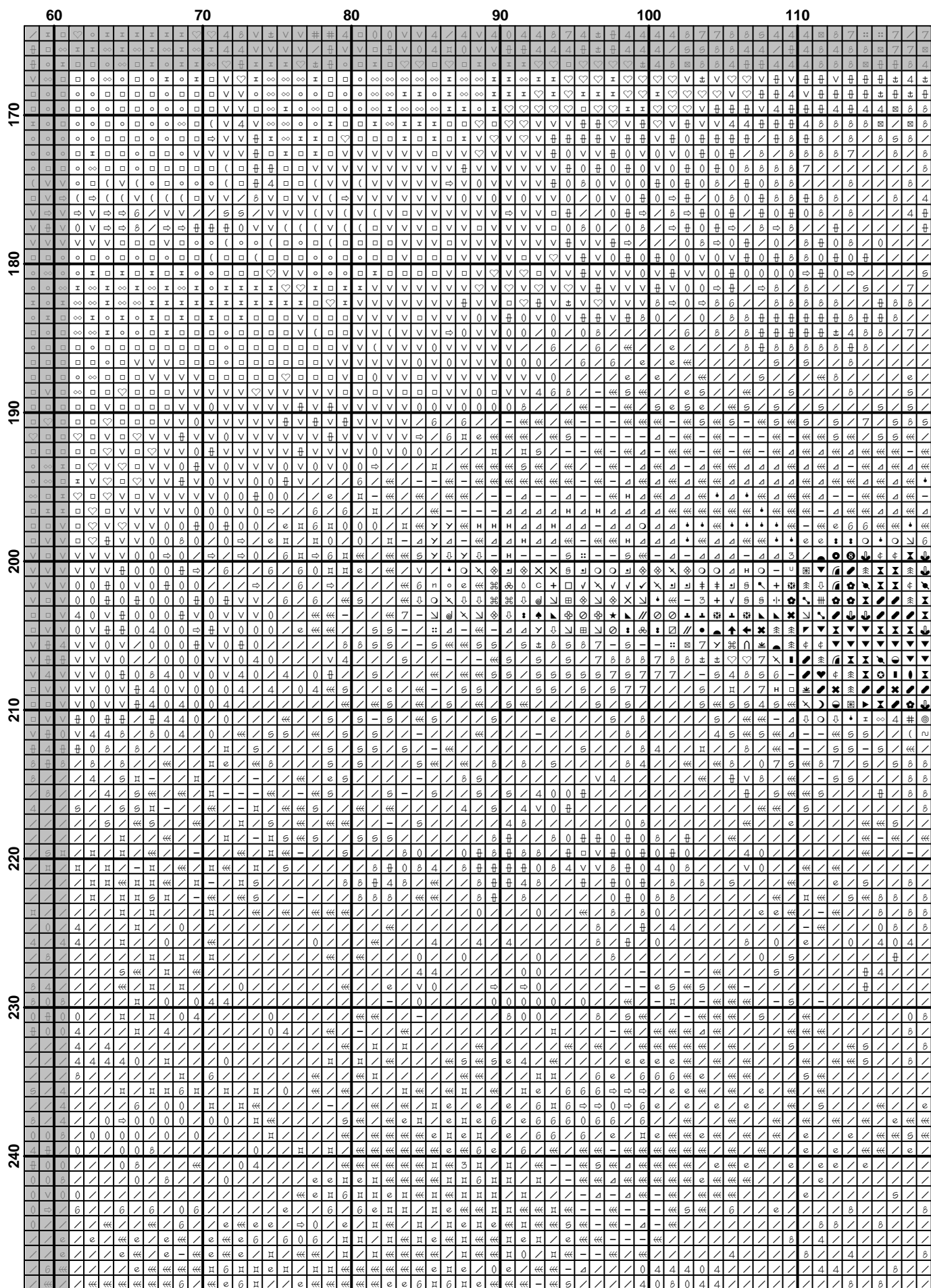


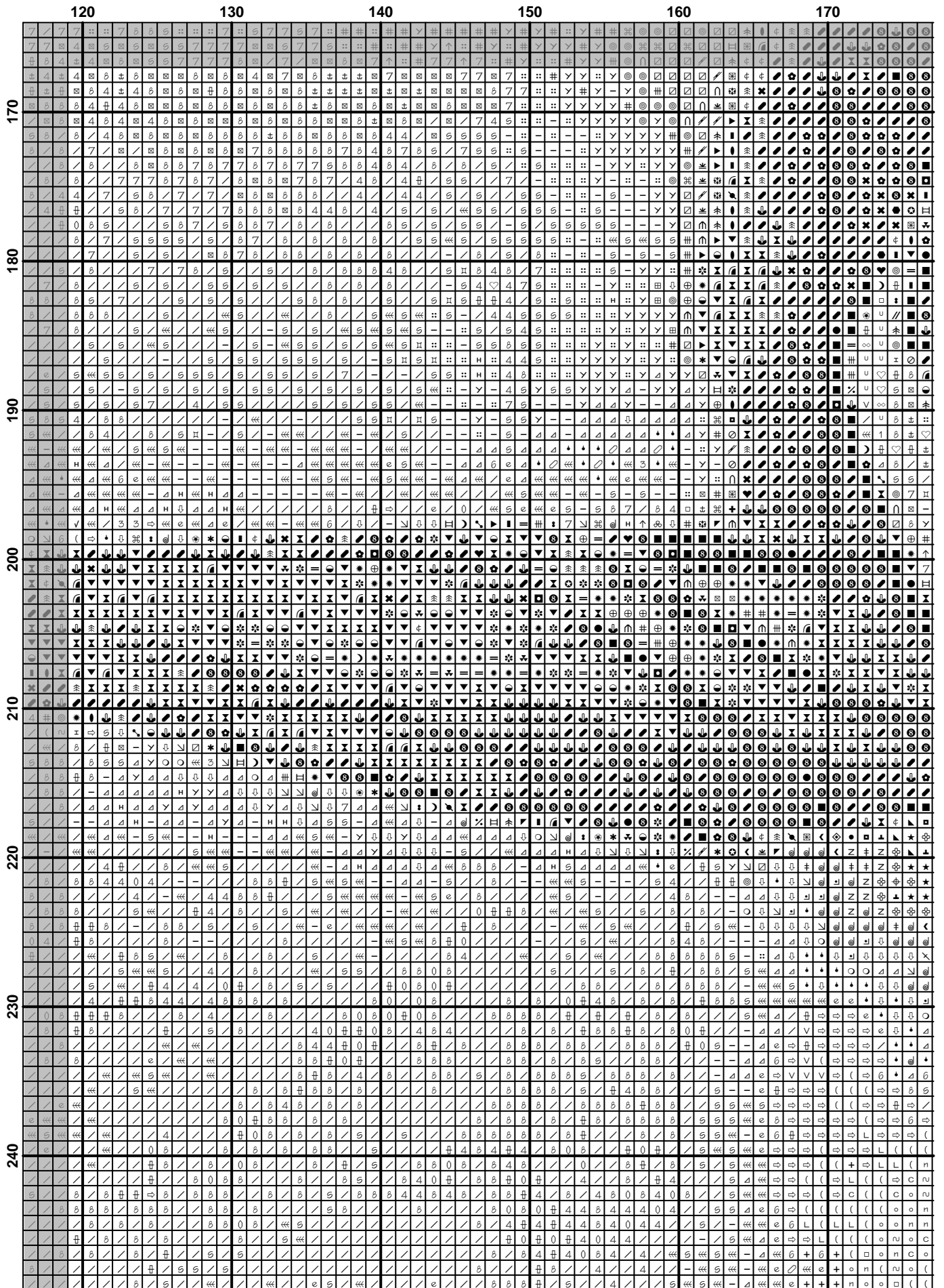


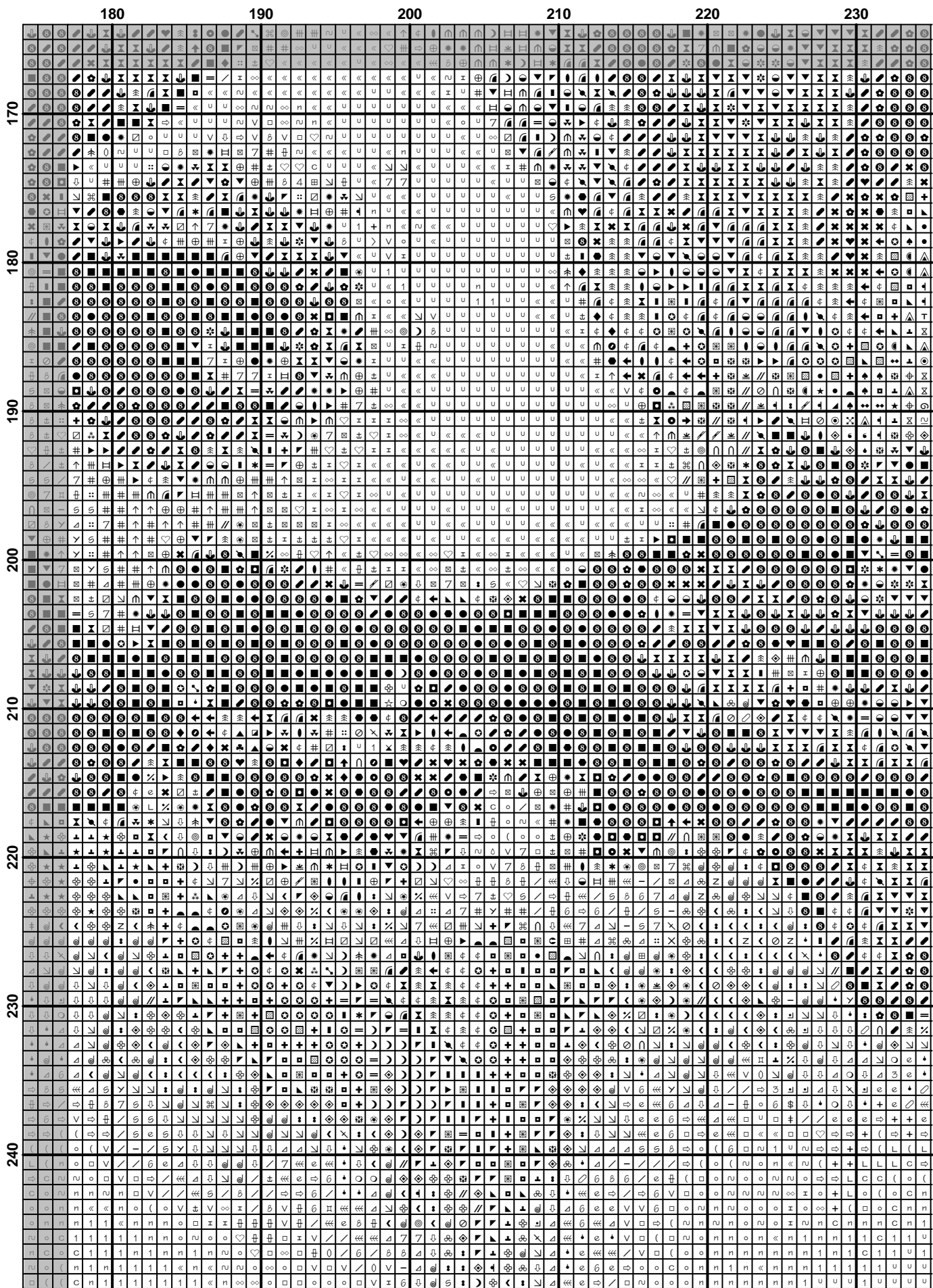


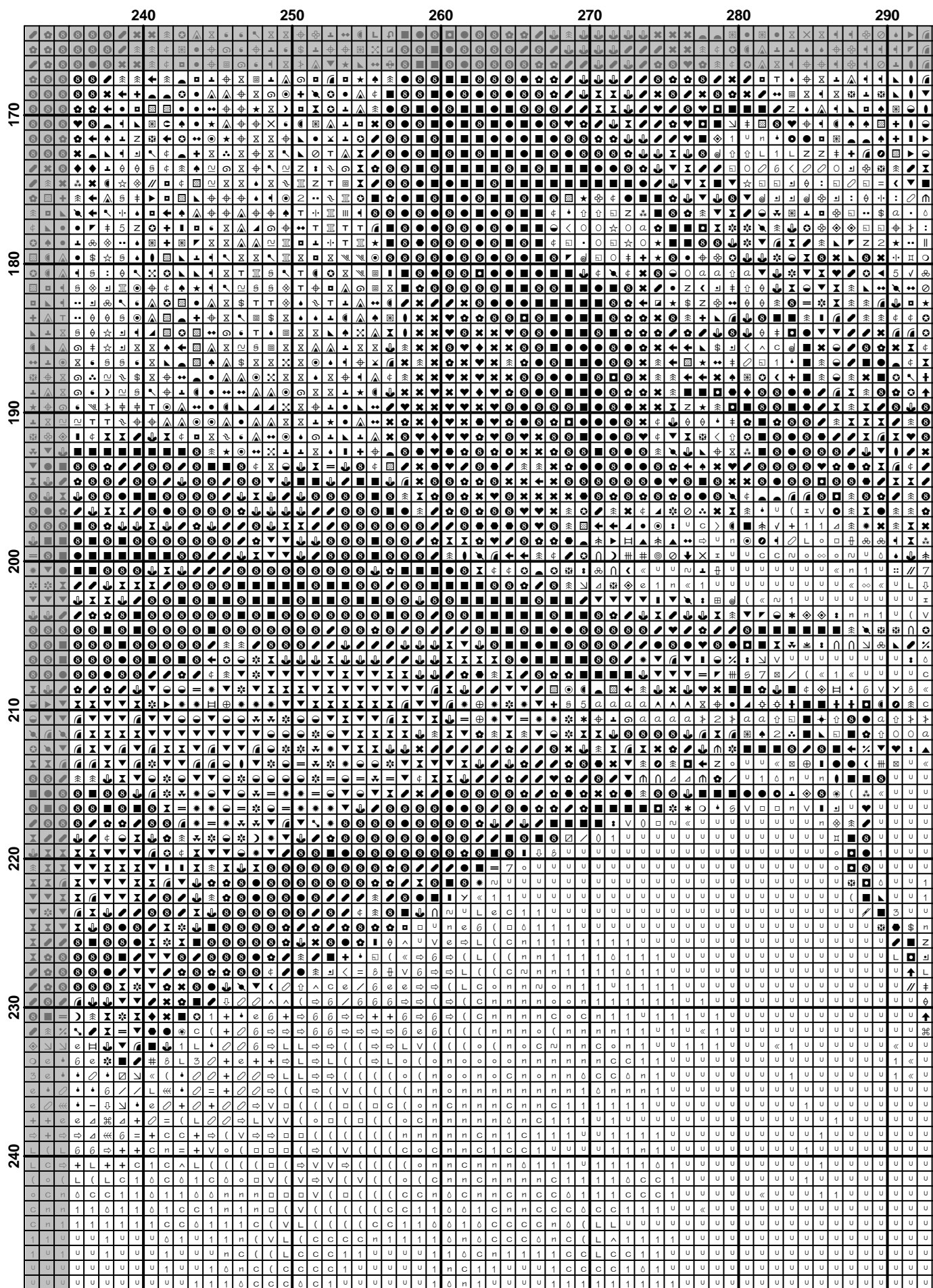


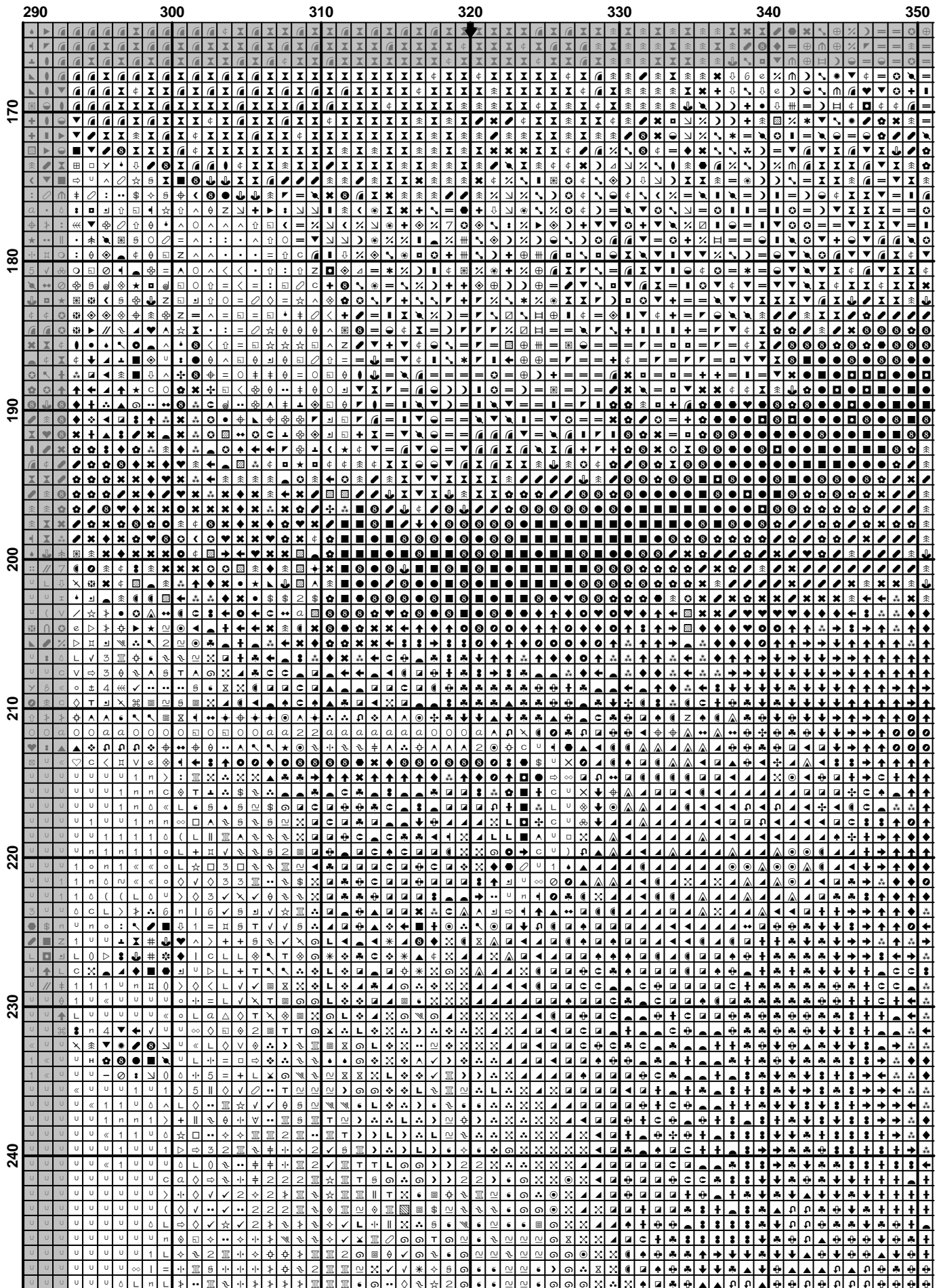
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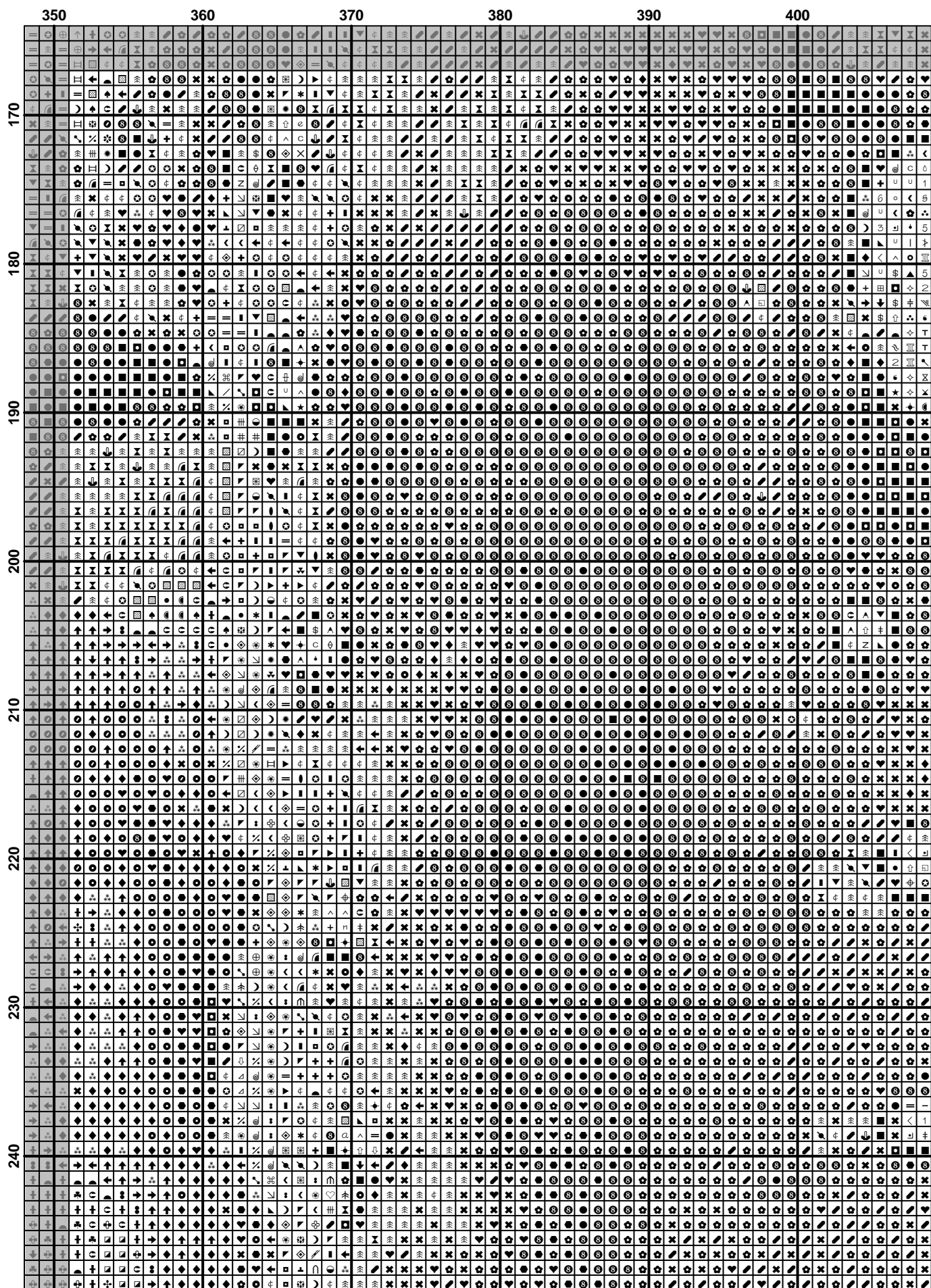


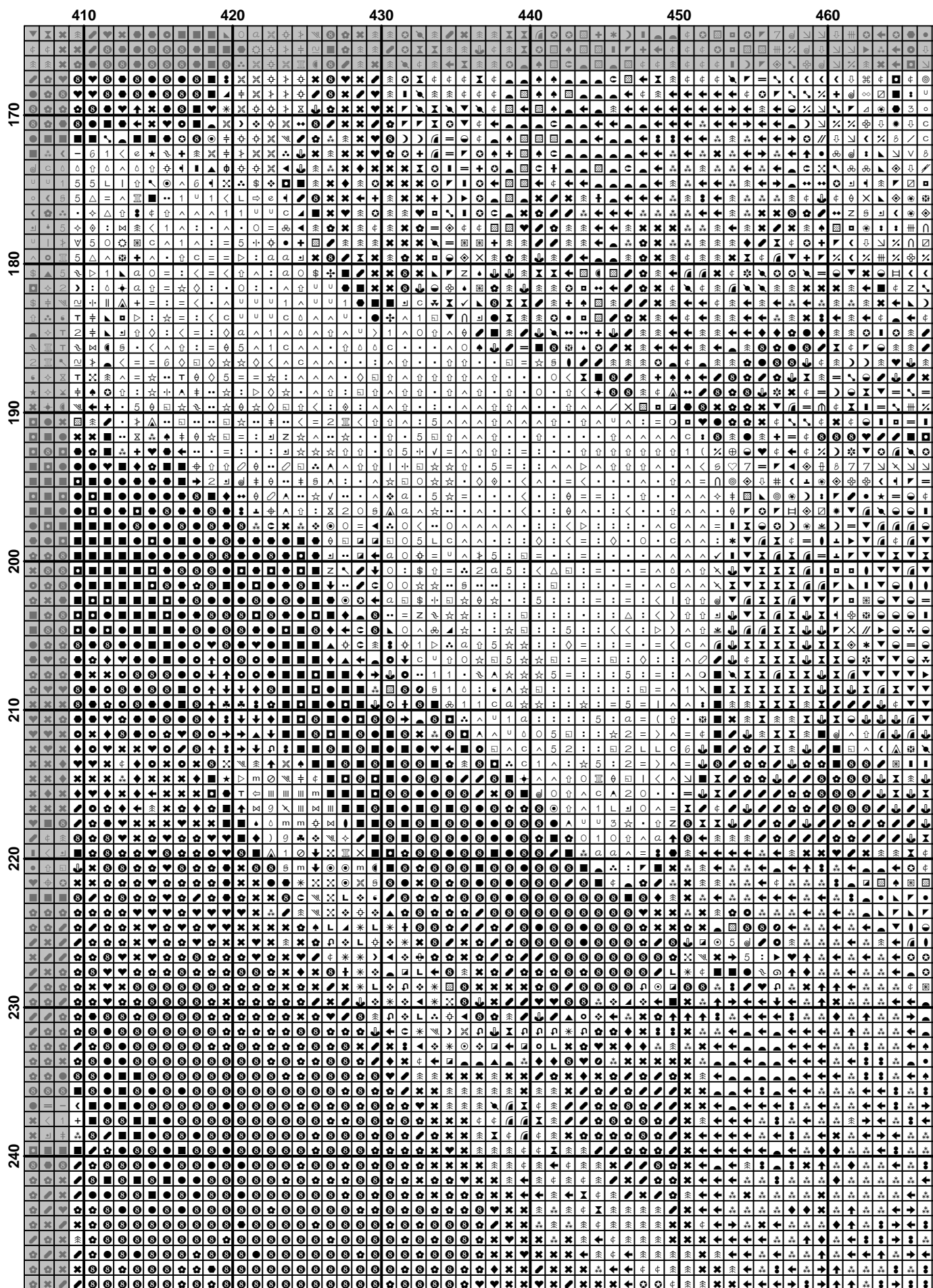






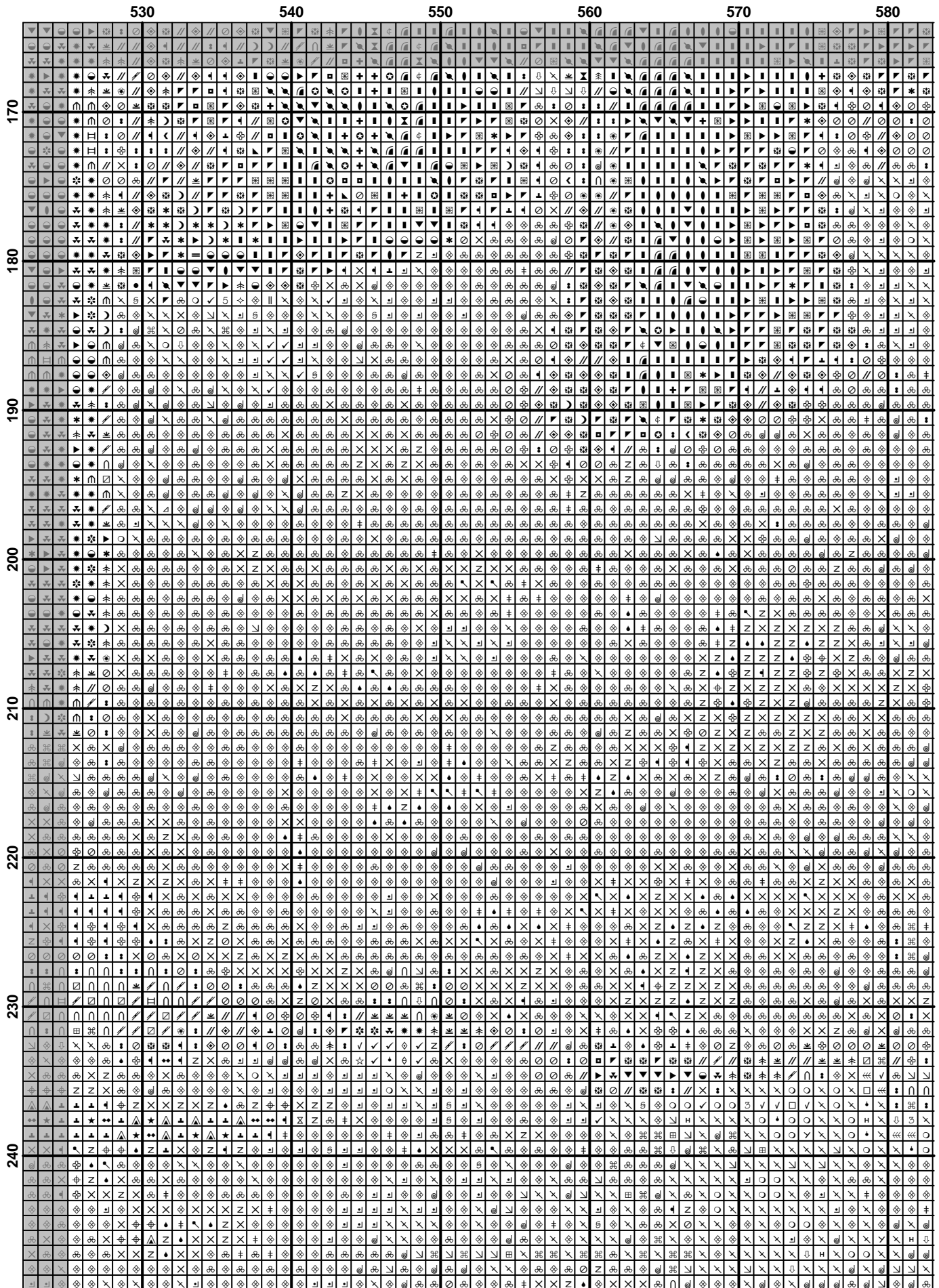


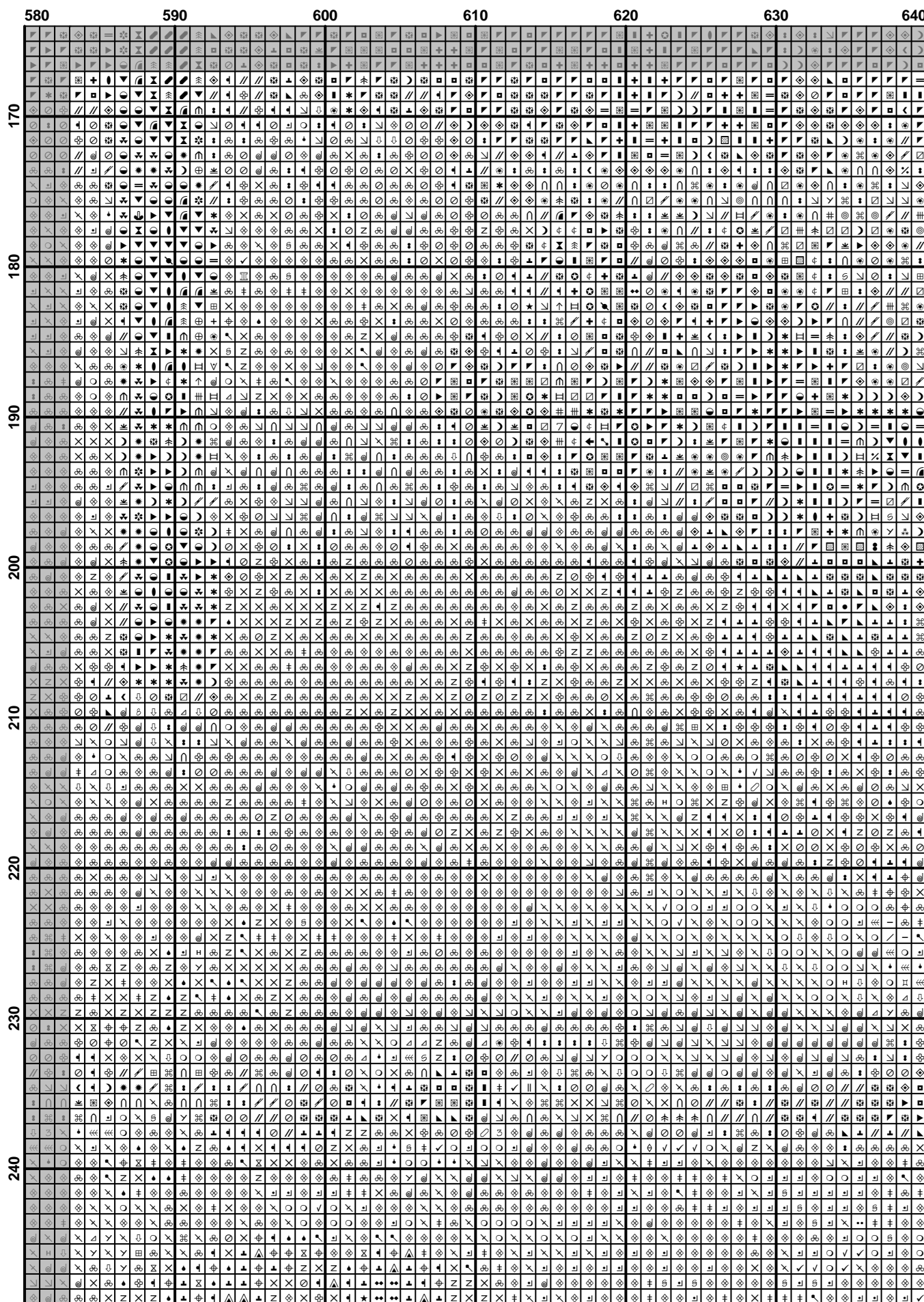




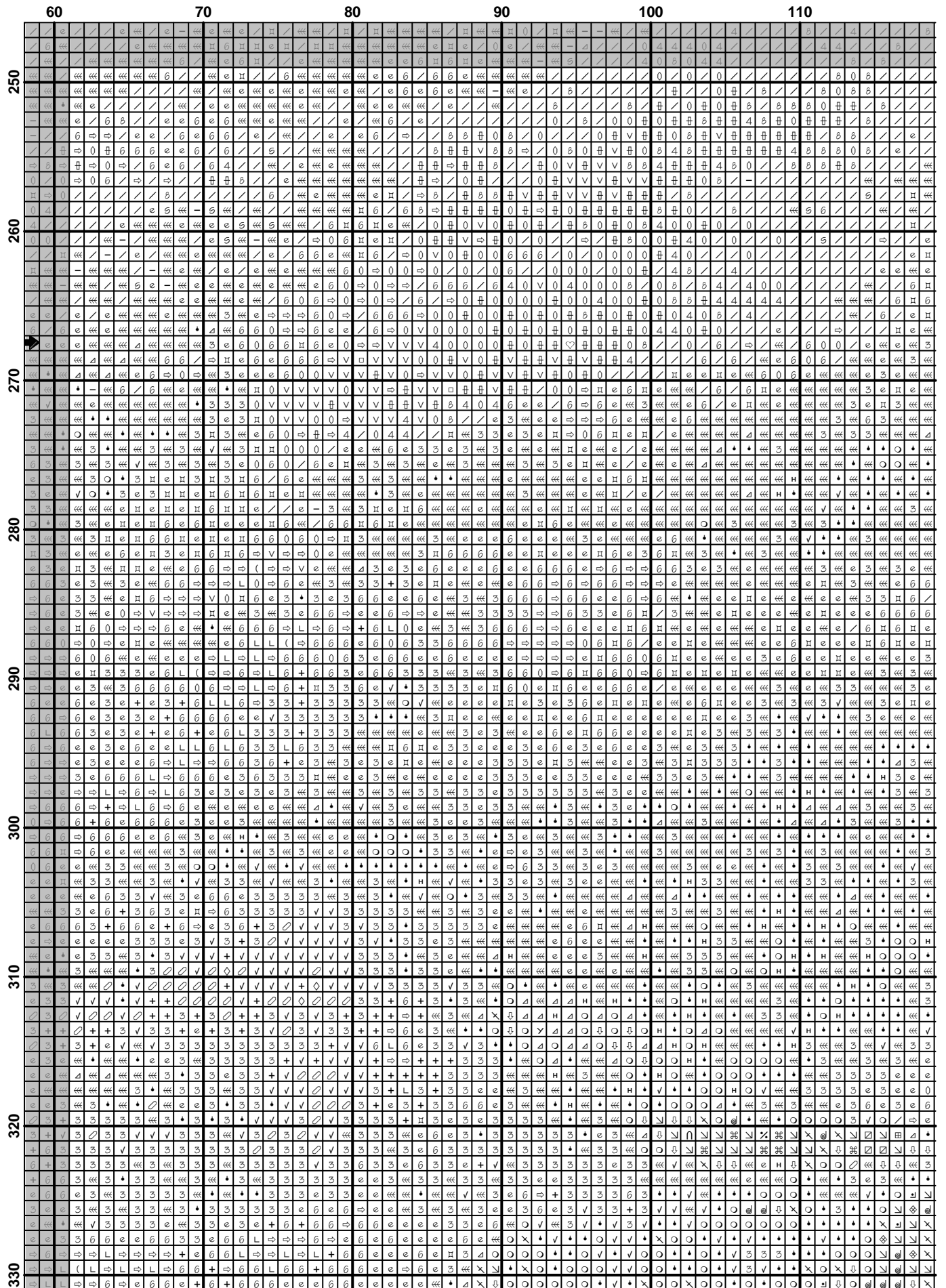


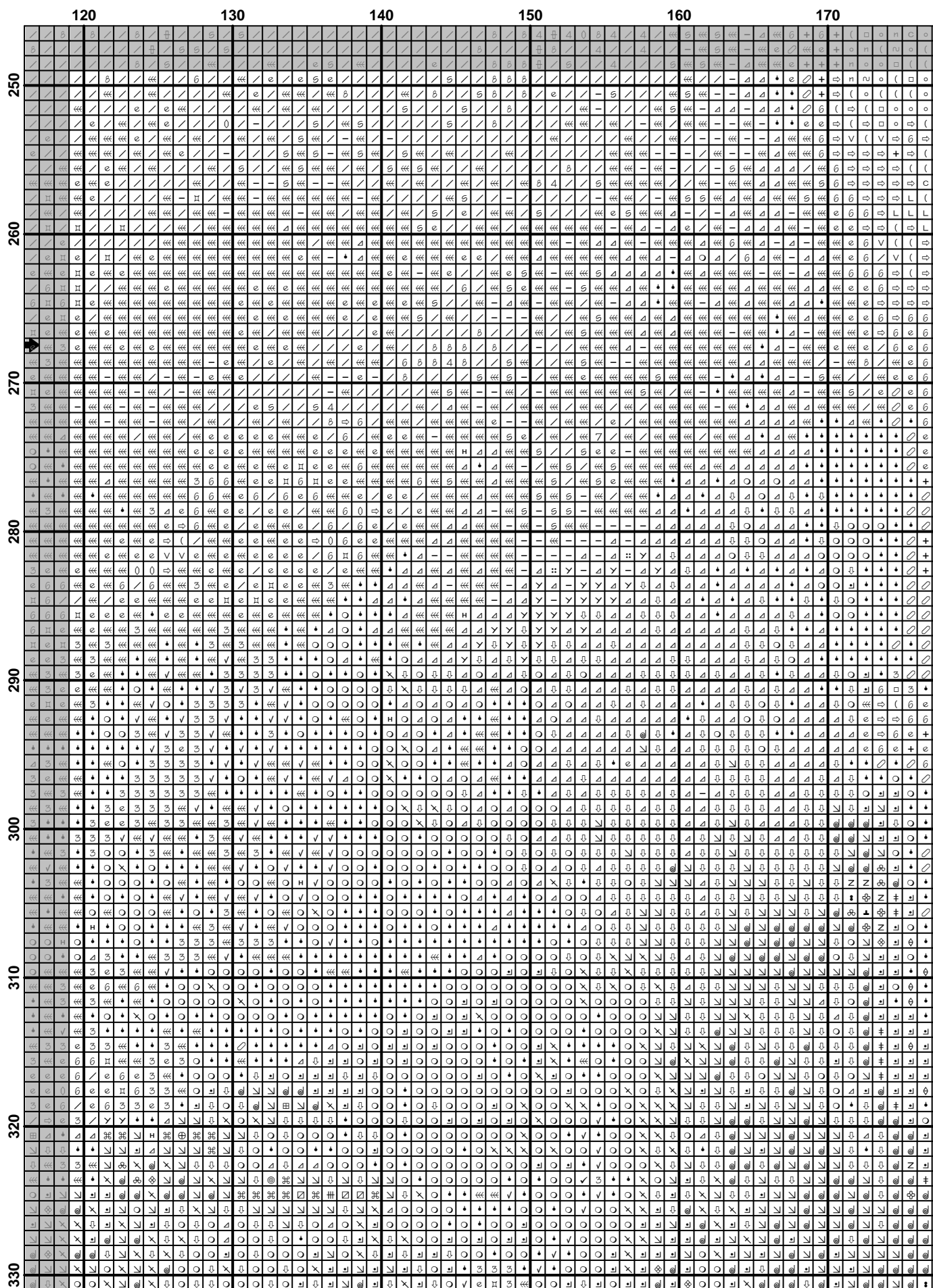
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170																																																																																																				
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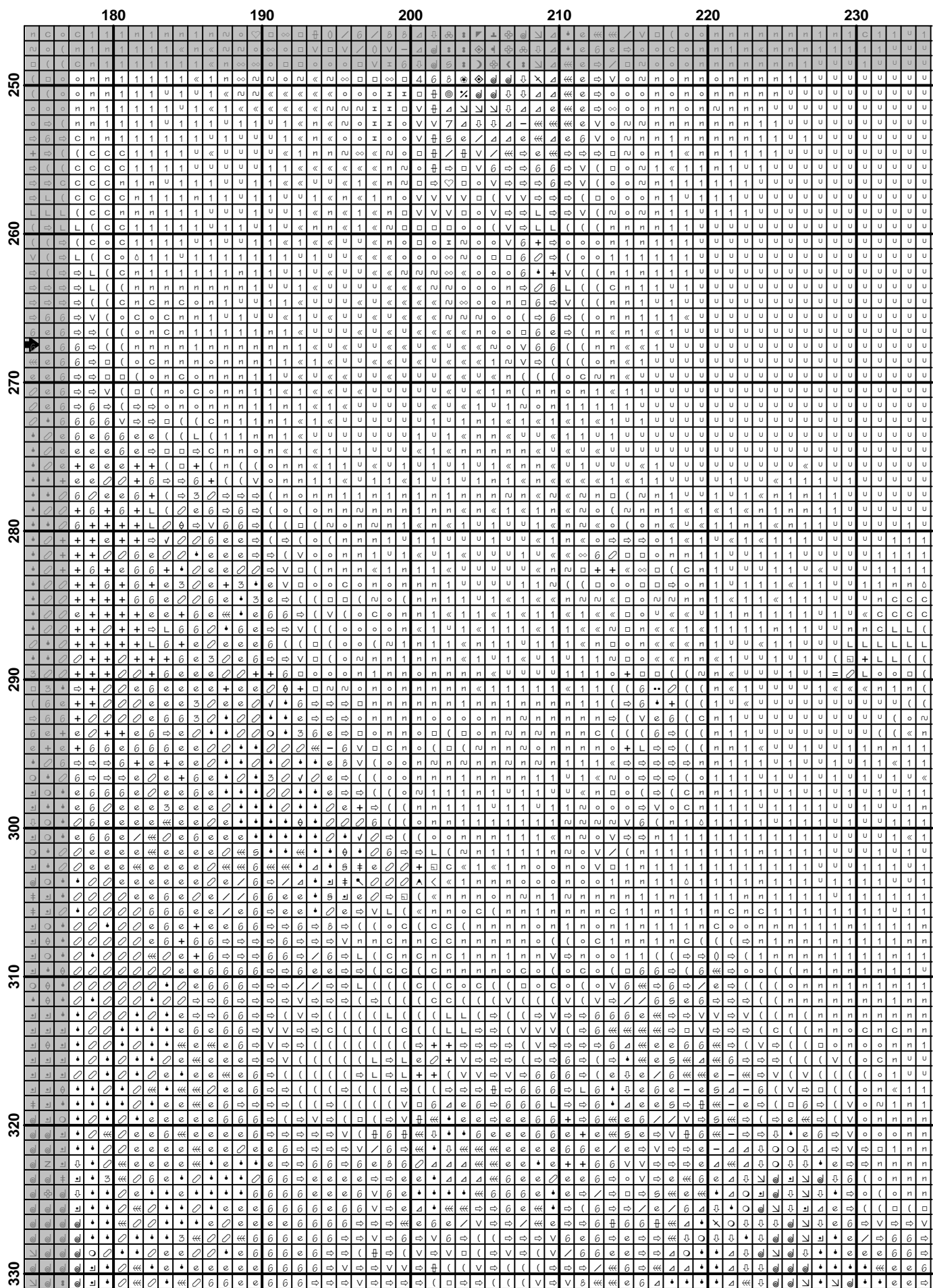




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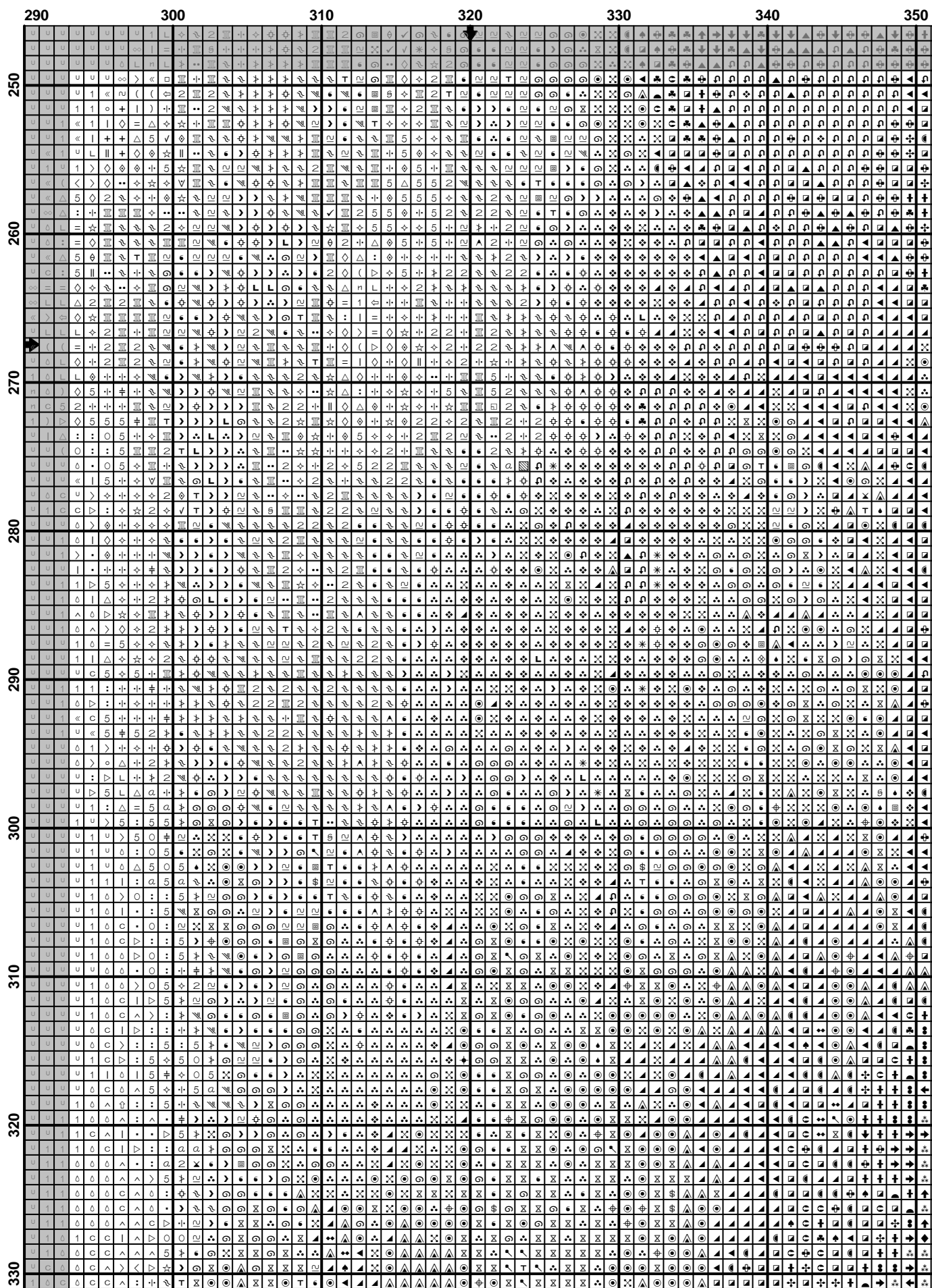


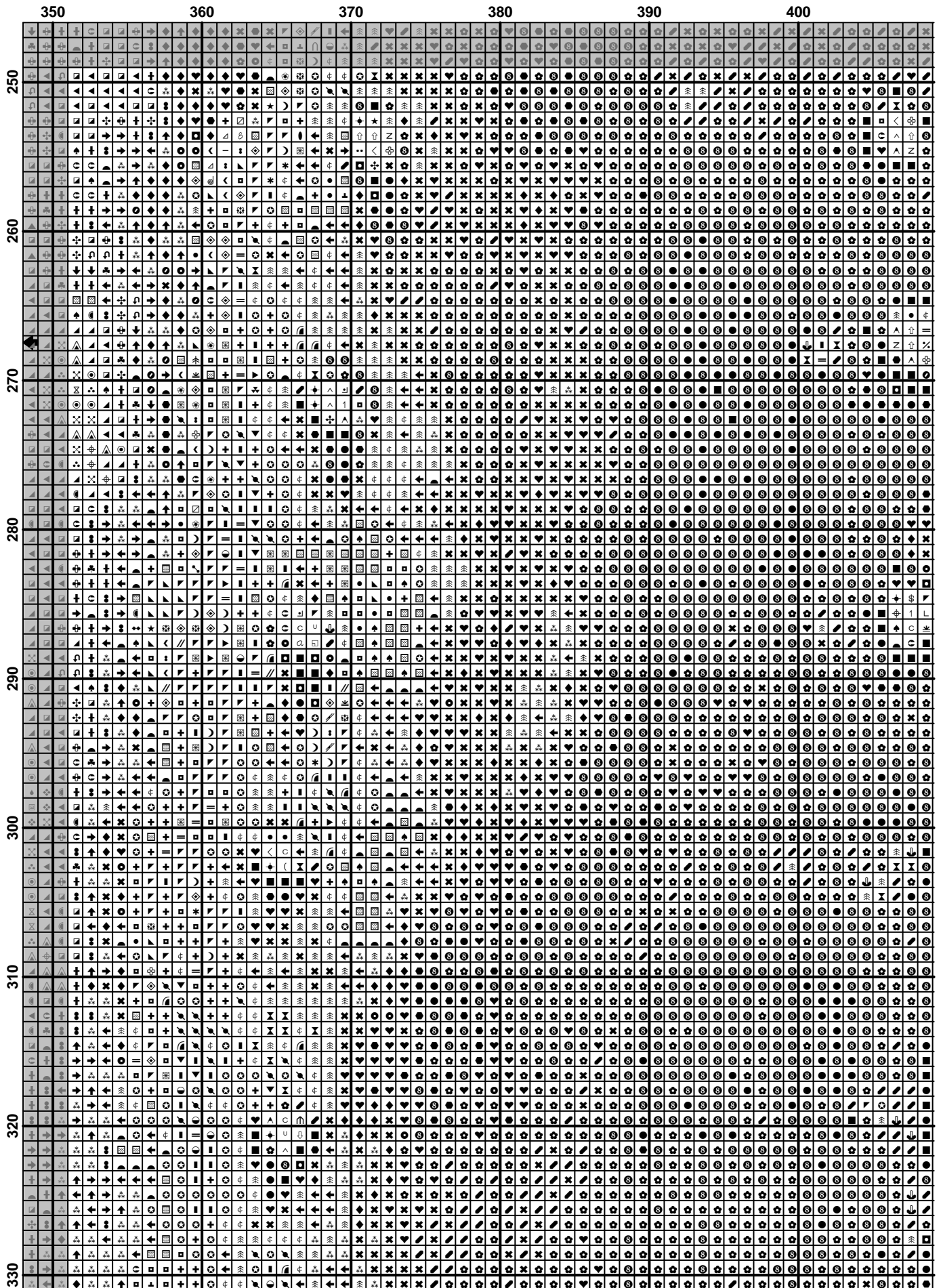


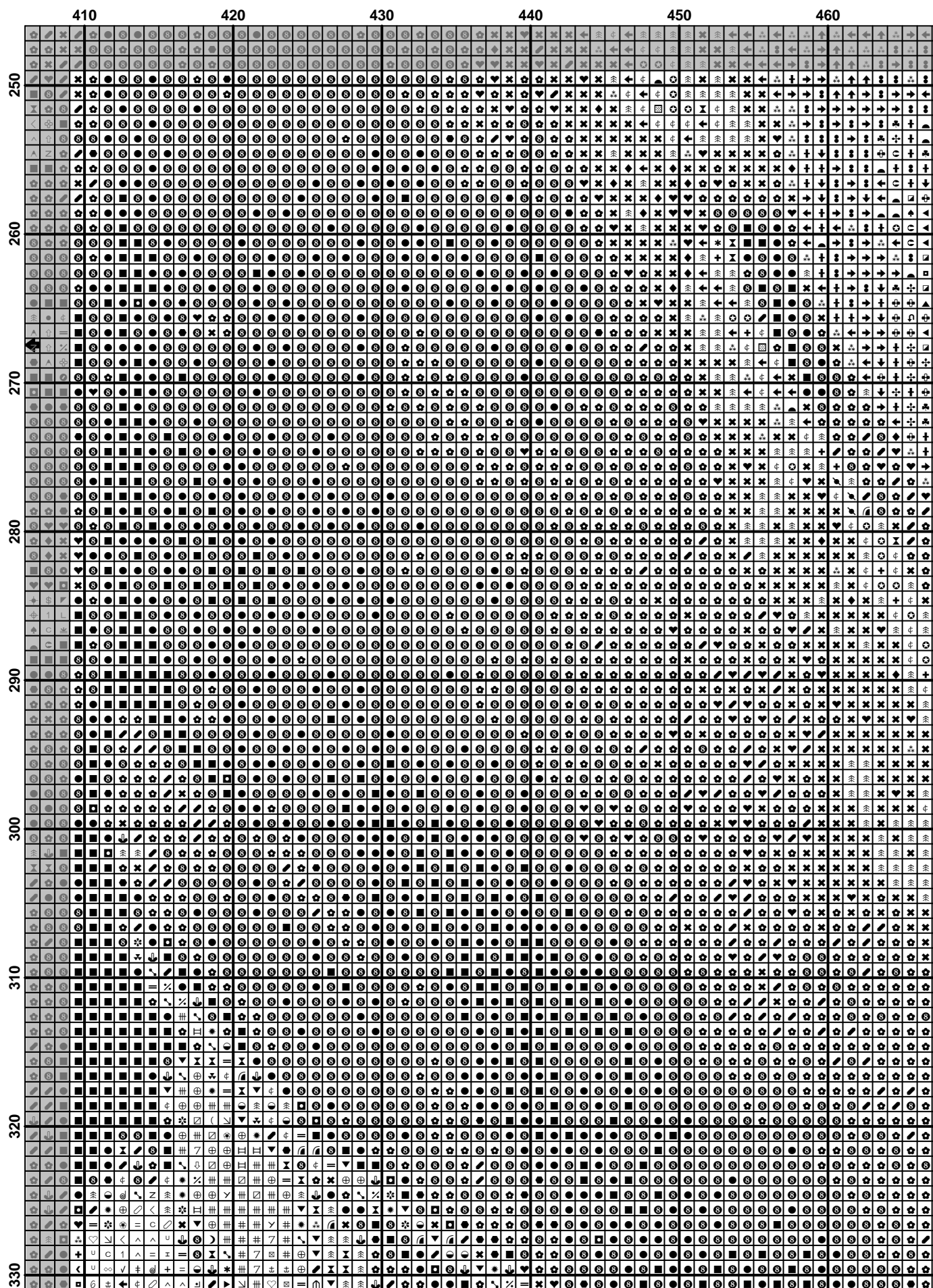


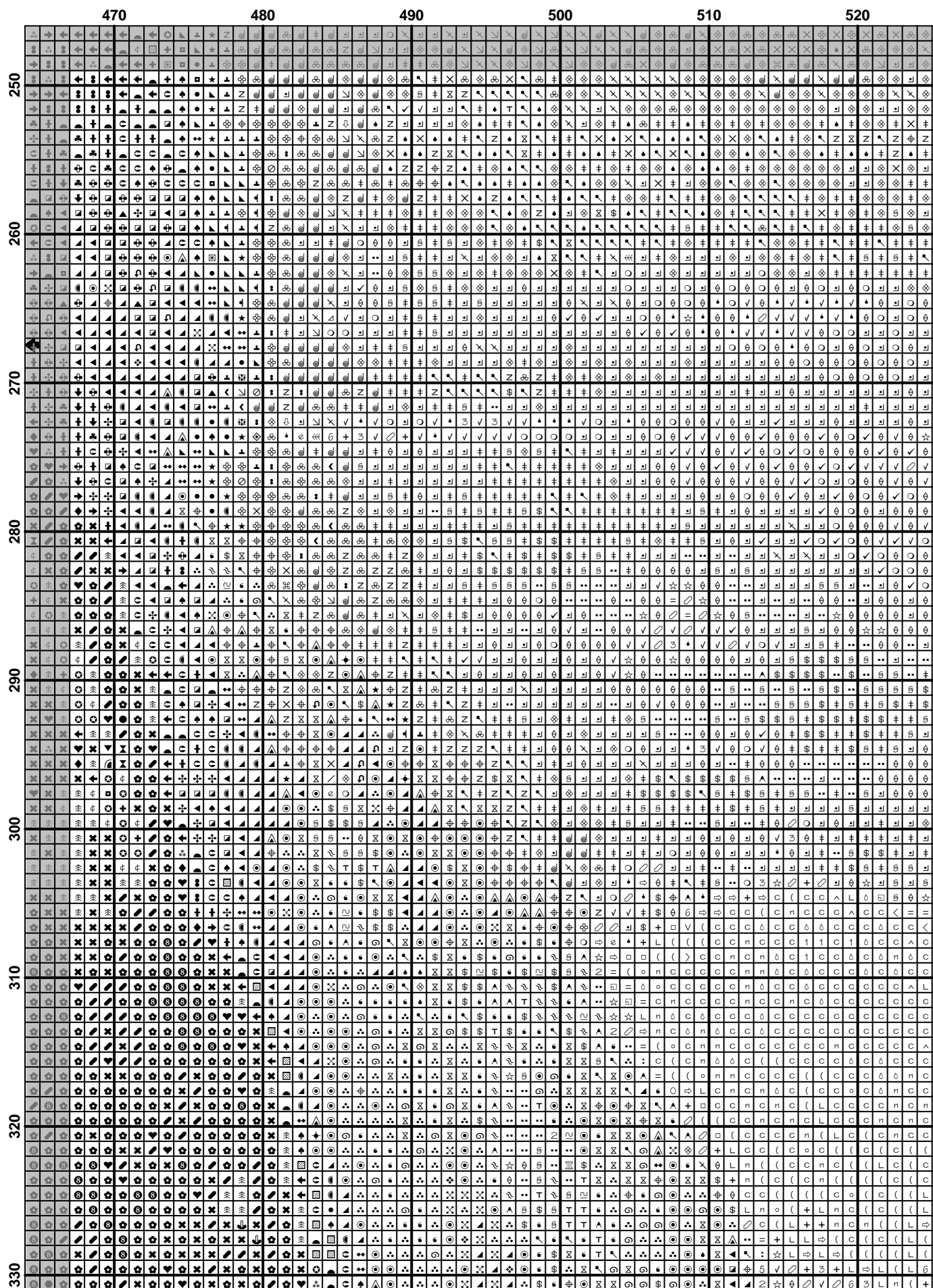
$$(49) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$



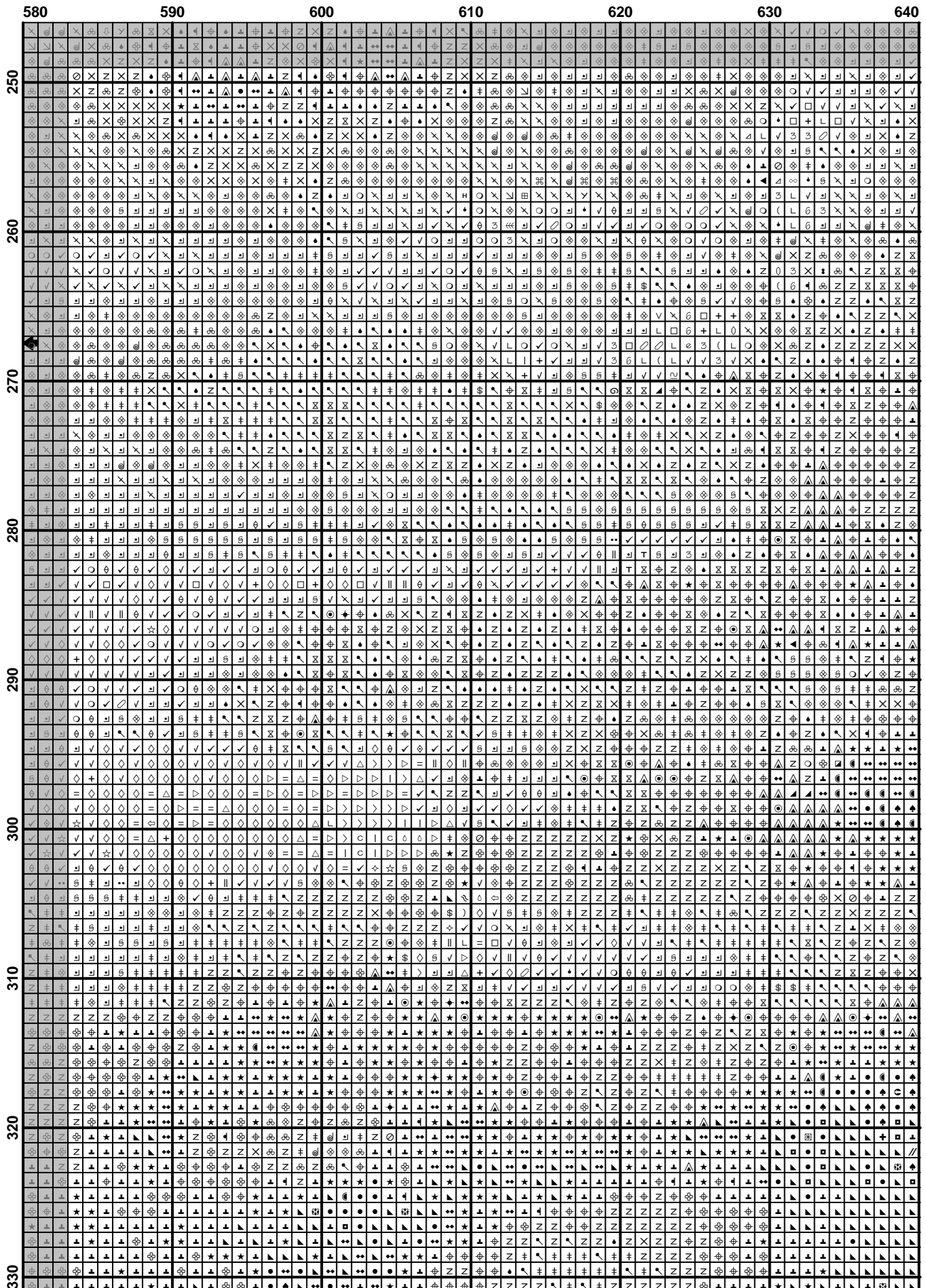


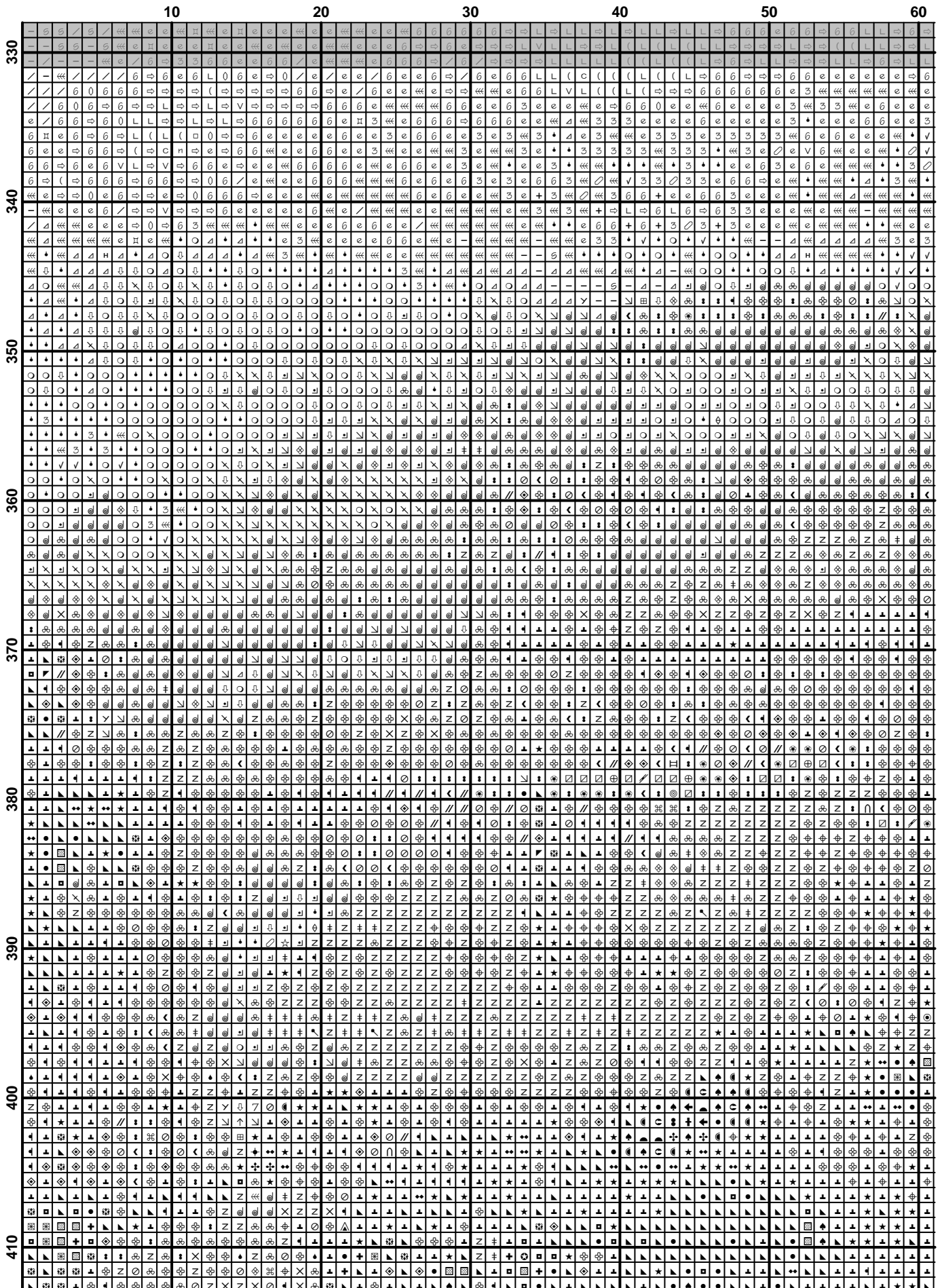


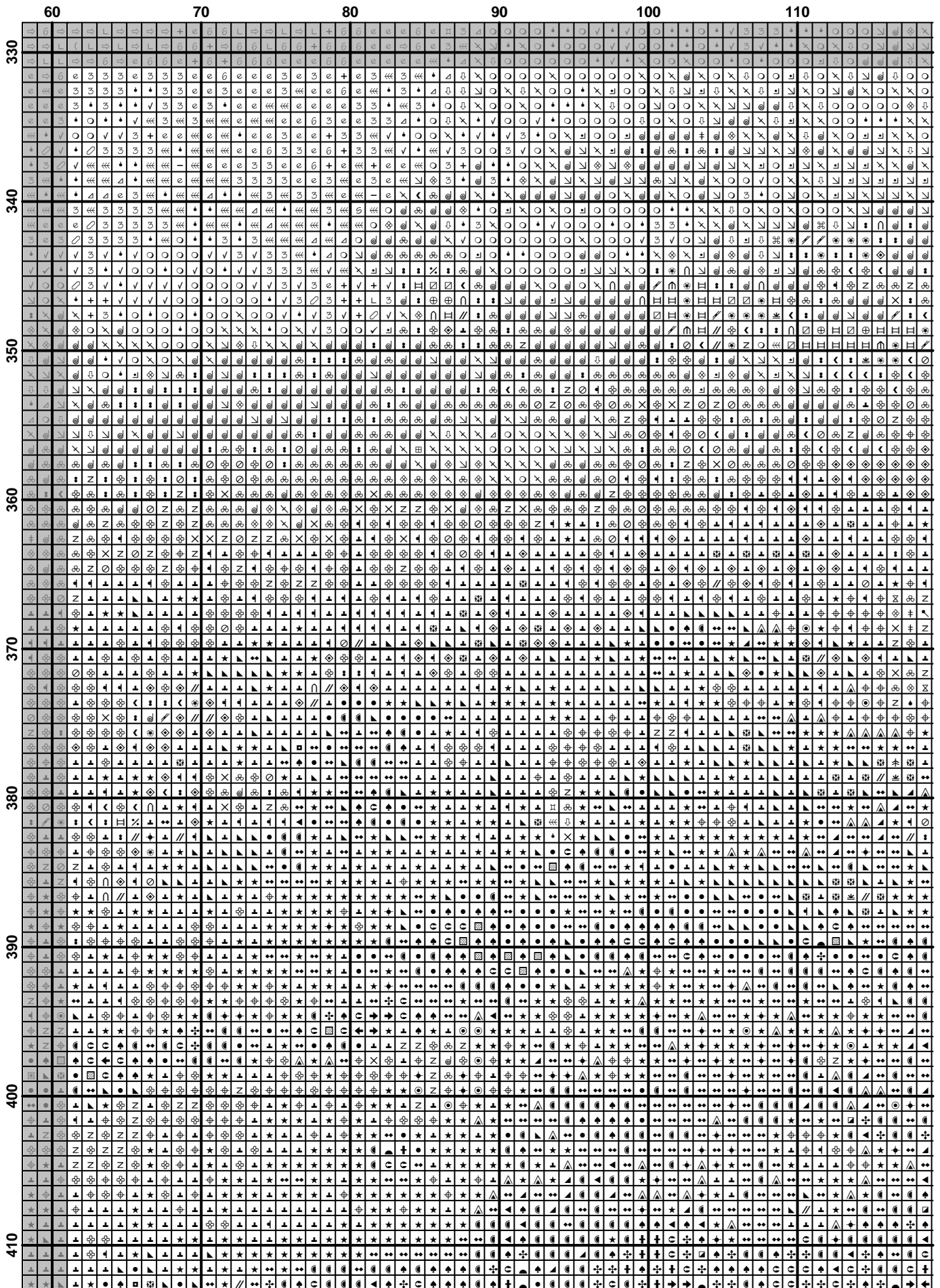




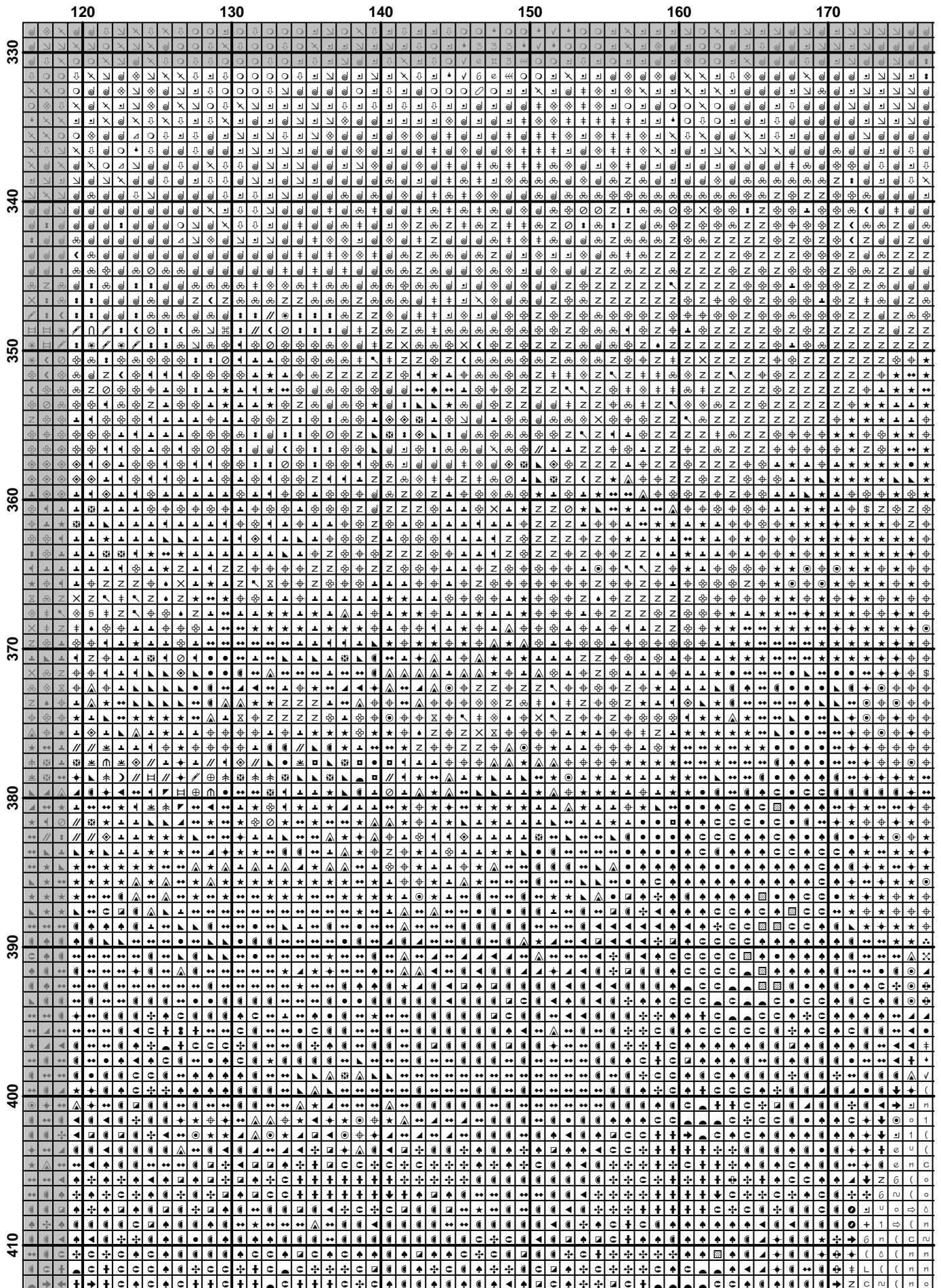
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260	X	X	X	X	X	X
270	X	X	X	X	X	X
280	X	X	X	X	X	X
290	X	X	X	X	X	X
300	X	X	X	X	X	X
310	X	X	X	X	X	X
320	X	X	X	X	X	X
330	X	X	X	X	X	X











[illegible]

