

229 Summer Flowers



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Instructions

Thank you for choosing Golden Kite products!
We hope you will have lots of fun with this cross-stitch pattern!

Fabric

Press the fabric with an iron if needed. A good thing to prevent the fabric from fraying is to machine zigzag the edges.

It is easiest to start in the center of the design. To locate the center of the fabric, fold the fabric in half both vertically and horizontally. The center is located where these two folds meet.

Stitches

Each length of DMC thread consists of six strands.

Use two of these strands for all stitches.

Note that some colors may be mixes (or blends) between two different pure colors. In that case take one strand of the two colors each and thread the two strands into the needle at the same time for stitching.

All stitches are full cross-stitches. No half-stitching and no back-stitching is necessary in this pattern.

All cross-stitches will be worked into the holes in the fabric from left to right. Always use the larger holes in the fabric for the stitches. Adjacent stitches should meet in the same hole. Make sure all stitches cross in the same direction.

Please be careful when washing the finished embroidery! The cotton thread may bleed when washed. Only hand wash it in lukewarm water. Remove excess water by roll it in a towel and lay it flat to air dry. Natural fabrics may shrink slightly when washed. We do not recommend washing the embroidery if not absolutely necessary and we take no responsibility for any damage that may occur.

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Summer Flowers

Stitch Count	
Horizontal:	400
Vertical:	471

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:	73	28.44	86	33.58	64	24.89	75	29.39	57	22.125	67	26.125
Including Margins:	89	35	102	40	80	31	91	36	73	29	83	33
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	102	39.81	120	47.01	85	33.18	100	39.17	42	16.59	50	19.58
Including Margins:	118	46	136	54	101	40	116	46	58	23	66	26
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	40	15.92	48	18.8	39	15.31	46	18.08	37	14.74	44	17.41
Including Margins:	56	22	64	25	55	22	62	25	53	21	60	24
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	36	14.22	43	16.79	34	13.27	40	15.67	31	12.44	37	14.69
Including Margins:	52	21	59	23	50	20	56	22	47	19	53	21

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
◉	221	Shell Pink-VY DK
●	300	Mahogany-VY DK
➔	301	Mahogany-MD
⊥	307	Lemon
⌘	318	Steel Gray-LT
⌘	402	Mahogany-VY LT
♥	413	Pewter Gray-DK
▲	414	Steel Gray-DK
⋈	415	Pearl Gray
■	434	Brown-LT
	437	Tan-LT
田	452	Shell Gray-MD
⊠	470	Avocado Green-LT
≡	471	Avocado Green-VY LT
Ⓢ	504	Blue Green-LT
◇	522	Fern Green
⇒	523	Fern Green-LT
//	564	Jade-VY LT
◆	632	Desert Sand-UL VY DK
⌘	647	Beaver Gray-MD
∇	648	Beaver Gray-LT
+	680	Old Gold-DK
L	712	Cream
†	720	Orange Spice-DK
*	721	Orange Spice-MD
✕	730	Olive Green-VY DK
⊕	731	Olive Green-DK
●	732	Olive Green
↘	734	Olive Green-LT
√	739	Tan-UL VY LT
◉	740	Tangerine
⊕	741	Tangerine-MD
4	742	Tangerine-LT
«	746	Off White
⇐	758	Terra Cotta-VY LT
e	762	Pearl Gray-VY LT
⊠	781	Topaz-VY DK
■	782	Topaz-DK
⊠	783	Topaz-MD
ρ	828	Blue-UL VY LT
◉	829	Golden Olive-VY DK
◉	832	Golden Olive
⊕	833	Golden Olive-LT

◉	834	Golden Olive-VY LT
◉	898	Coffee Brown-VY DK
\$	907	Parrot Green-LT
♠	922	Copper-LT
=	927	Gray Green-LT
)	948	Peach-VY LT
0	950	Desert Sand-LT
=	955	Nile Green-LT
⌘	970	Pumpkin-LT
⌘	975	Golden Brown-DK
◉	977	Golden Brown-LT
←	3011	Khaki Green-DK
**	3012	Khaki Green-MD
★	3013	Khaki Green-LT
0	3024	Brown Gray-VY LT
✦	3032	Mocha Brown-MD
•	3046	Yellow Beige-MD
—	3047	Yellow Beige-LT
⌘	3052	Green Gray-MD
^	3078	Golden Yellow-VY LT
↓	3341	Apricot
⌘	3346	Hunter Green
Z	3348	Yellow Green-LT
✦	3364	Pine Green
■	3371	Black Brown
◉	3740	Antique Violet-DK
1	3756	Baby Blue-UL VY LT
✦	3772	Desert Sand-VY DK
◉	3776	Mahogany-LT
‡	3811	Turquoise-VY LT
↑	3813	Blue Green-LT
✕	3819	Moss Green-LT
¼	3820	Straw-DK
(3823	Yellow-UL Pale
▲	3829	Old Gold-VY DK
¼	3852	Straw-VY DK
⊙	3853	Autumn Gold-DK
◇	3854	Autumn Gold-MD
>	3855	Autumn Gold-LT
9	3856	Mahogany-UL VY LT
♣	3862	Mocha Beige-DK
*	3864	Mocha Beige-LT
•	3865	Winter White
c	3866	Mocha Brown-UL VY LT
~	Ecrú	Ecrú

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

Symbol	DMC1	Name1	DMC2	Name2
∞	3024	Brown Gray-VY LT	3866	Mocha Brown-UL VY LT
⬆	741	Tangerine-MD	742	Tangerine-LT
⬇	782	Topaz-DK	783	Topaz-MD
⬇	300	Mahogany-VY DK	975	Golden Brown-DK
☆	975	Golden Brown-DK	301	Mahogany-MD
⬆	3852	Straw-VY DK	782	Topaz-DK
▼	832	Golden Olive	732	Olive Green
/	3078	Golden Yellow-VY LT	739	Tan-UL VY LT
∨	739	Tan-UL VY LT	3046	Yellow Beige-MD
#	3852	Straw-VY DK	3819	Moss Green-LT
⌘	3820	Straw-DK	3852	Straw-VY DK
⌘	3819	Moss Green-LT	3820	Straw-DK
m	3820	Straw-DK	307	Lemon
	3819	Moss Green-LT	3854	Autumn Gold-MD
⋈	3046	Yellow Beige-MD	3855	Autumn Gold-LT
⌘	3852	Straw-VY DK	832	Golden Olive
⌘	833	Golden Olive-LT	3819	Moss Green-LT
⌘	731	Olive Green-DK	3012	Khaki Green-MD
⌘	3012	Khaki Green-MD	471	Avocado Green-VY LT
♣	732	Olive Green	632	Desert Sand-UL VY DK
●	833	Golden Olive-LT	471	Avocado Green-VY LT
⬆	730	Olive Green-VY DK	731	Olive Green-DK
⌘	730	Olive Green-VY DK	3012	Khaki Green-MD
:	3865	Winter White	3756	Baby Blue-UL VY LT
::	3756	Baby Blue-UL VY LT	828	Blue-UL VY LT
⌘	828	Blue-UL VY LT	415	Pearl Gray
⌘	504	Blue Green-LT	318	Steel Gray-LT
♥	732	Olive Green	470	Avocado Green-LT
⌘	907	Parrot Green-LT	470	Avocado Green-LT
⌘	3348	Yellow Green-LT	3364	Pine Green
⌘	832	Golden Olive	470	Avocado Green-LT
●	898	Coffee Brown-VY DK	829	Golden Olive-VY DK
■	898	Coffee Brown-VY DK	3371	Black Brown
⌘	3855	Autumn Gold-LT	3856	Mahogany-UL VY LT
⌘	434	Brown-LT	781	Topaz-VY DK
⌘	781	Topaz-VY DK	732	Olive Green
u	3855	Autumn Gold-LT	3078	Golden Yellow-VY LT
⌘	3852	Straw-VY DK	307	Lemon
2	3855	Autumn Gold-LT	3854	Autumn Gold-MD
⬇	301	Mahogany-MD	720	Orange Spice-DK
⌘	680	Old Gold-DK	833	Golden Olive-LT
⬇	221	Shell Pink-VY DK	301	Mahogany-MD
↑	307	Lemon	3854	Autumn Gold-MD
⊕	741	Tangerine-MD	3852	Straw-VY DK
⊙	740	Tangerine	741	Tangerine-MD
*	720	Orange Spice-DK	741	Tangerine-MD
++	3864	Mocha Beige-LT	3032	Mocha Brown-MD
⌘	3032	Mocha Brown-MD	3772	Desert Sand-VY DK
⌘	3772	Desert Sand-VY DK	3864	Mocha Beige-LT
▶	647	Beaver Gray-MD	3772	Desert Sand-VY DK
⌘	3772	Desert Sand-VY DK	3776	Mahogany-LT
3	3341	Apricot	3855	Autumn Gold-LT
⌘	3341	Apricot	3854	Autumn Gold-MD

✚	3813	Blue Green-LT	564	Jade-VY LT
✚	3813	Blue Green-LT	522	Fern Green
✚	648	Beaver Gray-LT	452	Shell Gray-MD
+	948	Peach-VY LT	950	Desert Sand-LT
≡	950	Desert Sand-LT	3341	Apricot
5	504	Blue Green-LT	955	Nile Green-LT
✚	221	Shell Pink-VY DK	720	Orange Spice-DK
L	3854	Autumn Gold-MD	907	Parrot Green-LT
✚	3852	Straw-VY DK	907	Parrot Green-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	
221	Shell Pink-VY DK	291	114	278	109	250	98
300	Mahogany-VY DK	172	67	164	64	148	58
301	Mahogany-MD	442	174	421	165	378	148
307	Lemon	435	171	414	162	373	146
318	Steel Gray-LT	175	68	166	65	150	59
402	Mahogany-VY LT	177	69	168	66	151	59
413	Pewter Gray-DK	27	10	25	9	23	9
414	Steel Gray-DK	40	15	38	14	34	13
415	Pearl Gray	453	178	431	169	388	152
434	Brown-LT	204	80	194	76	175	68
437	Tan-LT	167	65	159	62	143	56
452	Shell Gray-MD	156	61	148	58	133	52
470	Avocado Green-LT	592	233	564	222	508	200
471	Avocado Green-VY LT	1091	429	1039	409	935	368
504	Blue Green-LT	936	368	891	350	802	315
522	Fern Green	321	126	306	120	275	108
523	Fern Green-LT	952	374	907	357	816	321
564	Jade-VY LT	516	203	491	193	442	174
632	Desert Sand-UL VY DK	243	95	231	90	208	81
647	Beaver Gray-MD	204	80	195	76	175	68
648	Beaver Gray-LT	800	314	762	300	686	270
680	Old Gold-DK	126	49	120	47	108	42
712	Cream	605	238	576	226	518	203
720	Orange Spice-DK	333	131	317	124	285	112
721	Orange Spice-MD	29	11	27	10	24	9
730	Olive Green-VY DK	1261	496	1201	472	1081	425
731	Olive Green-DK	1169	460	1113	438	1002	394
732	Olive Green	2164	851	2061	811	1855	730
734	Olive Green-LT	409	161	390	153	351	138
739	Tan-UL VY LT	829	326	789	310	710	279
740	Tangerine	80	31	76	29	69	27
741	Tangerine-MD	1542	607	1469	578	1322	520
742	Tangerine-LT	718	282	684	269	615	242
746	Off White	496	195	472	185	425	167
758	Terra Cotta-VY LT	139	54	132	51	119	46
762	Pearl Gray-VY LT	393	154	374	147	337	132
781	Topaz-VY DK	442	174	421	165	379	149
782	Topaz-DK	715	281	681	268	613	241
783	Topaz-MD	144	56	137	53	123	48
828	Blue-UL VY LT	786	309	748	294	673	264
829	Golden Olive-VY DK	717	282	683	268	615	242
832	Golden Olive	1823	717	1736	683	1562	614
833	Golden Olive-LT	916	360	872	343	785	309
834	Golden Olive-VY LT	215	84	204	80	184	72
898	Coffee Brown-VY DK	481	189	458	180	412	162
907	Parrot Green-LT	611	240	582	229	523	205
922	Copper-LT	68	26	65	25	59	23
927	Gray Green-LT	117	46	112	44	101	39
948	Peach-VY LT	340	133	324	127	291	114
950	Desert Sand-LT	304	119	289	113	260	102
955	Nile Green-LT	758	298	722	284	650	255
970	Pumpkin-LT	42	16	40	15	36	14
975	Golden Brown-DK	343	135	326	128	294	115

977	Golden Brown-LT	232	91	221	87	199	78
3011	Khaki Green-DK	169	66	161	63	145	57
3012	Khaki Green-MD	1549	609	1475	580	1328	522
3013	Khaki Green-LT	407	160	388	152	349	137
3024	Brown Gray-VY LT	683	268	650	255	585	230
3032	Mocha Brown-MD	465	183	443	174	399	157
3046	Yellow Beige-MD	841	331	801	315	721	283
3047	Yellow Beige-LT	330	129	315	124	283	111
3052	Green Gray-MD	259	101	246	96	222	87
3078	Golden Yellow-VY LT	770	303	734	288	660	259
3341	Apricot	332	130	316	124	284	111
3346	Hunter Green	38	14	36	14	33	12
3348	Yellow Green-LT	1126	443	1073	422	965	379
3364	Pine Green	1316	518	1254	493	1128	444
3371	Black Brown	795	312	757	298	681	268
3740	Antique Violet-DK	23	9	22	8	19	7
3756	Baby Blue-UL VY LT	2412	949	2297	904	2068	814
3772	Desert Sand-VY DK	897	353	854	336	769	302
3776	Mahogany-LT	206	81	196	77	176	69
3811	Turquoise-VY LT	190	74	181	71	163	64
3813	Blue Green-LT	532	209	507	199	456	179
3819	Moss Green-LT	334	131	318	125	286	112
3820	Straw-DK	133	52	127	50	114	44
3823	Yellow-UL Pale	347	136	330	129	297	116
3829	Old Gold-VY DK	144	56	137	53	123	48
3852	Straw-VY DK	3522	1386	3355	1320	3019	1188
3853	Autumn Gold-DK	144	56	137	53	123	48
3854	Autumn Gold-MD	1189	468	1132	445	1019	401
3855	Autumn Gold-LT	766	301	730	287	657	258
3856	Mahogany-UL VY LT	64	25	61	24	55	21
3862	Mocha Beige-DK	124	48	118	46	106	41
3864	Mocha Beige-LT	452	177	430	169	387	152
3865	Winter White	3877	1526	3692	1453	3323	1308
3866	Mocha Brown-UL VY LT	764	300	728	286	655	257
Ecru	Ecru	188	74	179	70	161	63

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
221	Shell Pink-VY DK	450	176	375	147	188	74
300	Mahogany-VY DK	266	104	222	87	111	44
301	Mahogany-MD	680	266	567	222	284	111
307	Lemon	671	263	560	219	280	110
318	Steel Gray-LT	270	106	225	89	113	44
402	Mahogany-VY LT	272	106	227	89	113	44
413	Pewter Gray-DK	41	16	35	14	17	7
414	Steel Gray-DK	61	23	51	20	26	10
415	Pearl Gray	698	274	582	228	291	114
434	Brown-LT	315	122	263	102	131	51
437	Tan-LT	257	101	215	84	107	42
452	Shell Gray-MD	239	94	200	78	100	39
470	Avocado Green-LT	914	360	762	300	381	150
471	Avocado Green-VY LT	1683	662	1403	552	701	276
504	Blue Green-LT	1444	567	1203	473	602	236
522	Fern Green	495	194	413	162	206	81
523	Fern Green-LT	1469	578	1224	482	612	241

564	Jade-VY LT	796	313	663	261	332	131
632	Desert Sand-UL VY DK	374	146	312	122	156	61
647	Beaver Gray-MD	315	122	263	102	131	51
648	Beaver Gray-LT	1235	486	1029	405	515	203
680	Old Gold-DK	194	76	162	63	81	32
712	Cream	932	365	777	305	389	152
720	Orange Spice-DK	513	202	428	168	214	84
721	Orange Spice-MD	43	16	36	14	18	7
730	Olive Green-VY DK	1946	765	1622	638	811	319
731	Olive Green-DK	1804	709	1503	591	752	296
732	Olive Green	3339	1314	2783	1095	1391	548
734	Olive Green-LT	632	248	527	207	263	104
739	Tan-UL VY LT	1278	502	1065	419	533	209
740	Tangerine	124	49	104	41	52	20
741	Tangerine-MD	2380	936	1983	780	992	390
742	Tangerine-LT	1107	436	923	363	461	182
746	Off White	765	301	638	251	319	125
758	Terra Cotta-VY LT	214	83	179	69	89	35
762	Pearl Gray-VY LT	607	238	506	198	253	99
781	Topaz-VY DK	682	268	569	224	284	112
782	Topaz-DK	1103	434	920	362	460	181
783	Topaz-MD	221	86	185	72	92	36
828	Blue-UL VY LT	1211	475	1010	396	505	198
829	Golden Olive-VY DK	1107	436	923	363	461	182
832	Golden Olive	2812	1105	2343	921	1172	461
833	Golden Olive-LT	1413	556	1178	464	589	232
834	Golden Olive-VY LT	331	130	276	108	138	54
898	Coffee Brown-VY DK	742	292	618	243	309	122
907	Parrot Green-LT	941	369	785	308	392	154
922	Copper-LT	106	41	89	35	44	17
927	Gray Green-LT	182	70	152	59	76	29
948	Peach-VY LT	524	205	437	171	218	86
950	Desert Sand-LT	468	184	390	153	195	77
955	Nile Green-LT	1170	459	975	383	488	191
970	Pumpkin-LT	65	25	54	21	27	11
975	Golden Brown-DK	529	207	441	173	221	86
977	Golden Brown-LT	358	140	299	117	149	59
3011	Khaki Green-DK	261	103	218	86	109	43
3012	Khaki Green-MD	2390	940	1992	783	996	392
3013	Khaki Green-LT	628	247	524	206	262	103
3024	Brown Gray-VY LT	1053	414	878	345	439	173
3032	Mocha Brown-MD	718	283	599	236	299	118
3046	Yellow Beige-MD	1298	509	1082	425	541	212
3047	Yellow Beige-LT	509	200	425	167	212	83
3052	Green Gray-MD	400	157	333	131	167	65
3078	Golden Yellow-VY LT	1188	466	990	389	495	194
3341	Apricot	511	200	426	167	213	83
3346	Hunter Green	59	22	50	18	25	9
3348	Yellow Green-LT	1737	682	1448	569	724	284
3364	Pine Green	2030	799	1692	666	846	333
3371	Black Brown	1226	482	1022	402	511	201
3740	Antique Violet-DK	34	13	29	11	14	5
3756	Baby Blue-UL VY LT	3722	1465	3102	1221	1551	611
3772	Desert Sand-VY DK	1384	544	1154	453	577	227
3776	Mahogany-LT	317	124	264	104	132	52
3811	Turquoise-VY LT	293	115	245	96	122	48
3813	Blue Green-LT	821	322	684	269	342	134
3819	Moss Green-LT	515	202	429	168	215	84
3820	Straw-DK	205	79	171	66	86	33

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3823	Yellow-UL Pale	535	209	446	174	223	87
3829	Old Gold-VY DK	221	86	185	72	92	36
3852	Straw-VY DK	5434	2138	4529	1782	2264	891
3853	Autumn Gold-DK	221	86	185	72	92	36
3854	Autumn Gold-MD	1834	722	1529	602	764	301
3855	Autumn Gold-LT	1183	464	986	387	493	194
3856	Mahogany-UL VY LT	99	38	83	32	41	16
3862	Mocha Beige-DK	191	74	159	62	80	31
3864	Mocha Beige-LT	697	274	581	228	290	114
3865	Winter White	5981	2354	4985	1962	2492	981
3866	Mocha Brown-UL VY LT	1179	463	983	386	491	193
Ecu	Ecu	290	113	242	95	121	47

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	180	71	173	68	167	65
300	Mahogany-VY DK	107	42	102	40	99	39
301	Mahogany-MD	272	107	262	102	252	99
307	Lemon	269	105	258	101	249	97
318	Steel Gray-LT	108	42	104	41	100	39
402	Mahogany-VY LT	109	42	105	41	101	39
413	Pewter Gray-DK	17	6	16	6	15	6
414	Steel Gray-DK	24	9	24	9	23	9
415	Pearl Gray	279	109	269	105	259	101
434	Brown-LT	126	49	121	47	117	45
437	Tan-LT	103	40	99	39	95	37
452	Shell Gray-MD	96	37	92	36	89	35
470	Avocado Green-LT	366	144	352	138	339	133
471	Avocado Green-VY LT	673	265	647	255	623	245
504	Blue Green-LT	577	227	555	218	535	210
522	Fern Green	198	78	190	75	183	72
523	Fern Green-LT	588	231	565	222	544	214
564	Jade-VY LT	318	125	306	120	295	116
632	Desert Sand-UL VY DK	150	58	144	56	139	54
647	Beaver Gray-MD	126	49	121	47	117	45
648	Beaver Gray-LT	494	194	475	187	457	180
680	Old Gold-DK	78	30	75	29	72	28
712	Cream	373	146	359	141	345	135
720	Orange Spice-DK	205	81	197	78	190	75
721	Orange Spice-MD	17	6	17	6	16	6
730	Olive Green-VY DK	778	306	748	294	721	283
731	Olive Green-DK	721	284	694	273	668	263
732	Olive Green	1336	526	1284	505	1237	487
734	Olive Green-LT	253	99	243	96	234	92
739	Tan-UL VY LT	511	201	492	193	473	186
740	Tangerine	50	19	48	19	46	18
741	Tangerine-MD	952	374	915	360	881	347
742	Tangerine-LT	443	174	426	168	410	161
746	Off White	306	120	294	116	283	111
758	Terra Cotta-VY LT	86	33	82	32	79	31
762	Pearl Gray-VY LT	243	95	233	91	225	88
781	Topaz-VY DK	273	107	262	103	253	99
782	Topaz-DK	441	174	424	167	409	161
783	Topaz-MD	89	35	85	33	82	32
828	Blue-UL VY LT	485	190	466	183	449	176

829	Golden Olive-VY DK	443	174	426	168	410	161
832	Golden Olive	1125	442	1081	425	1041	409
833	Golden Olive-LT	565	222	543	214	523	206
834	Golden Olive-VY LT	132	52	127	50	123	48
898	Coffee Brown-VY DK	297	117	285	112	275	108
907	Parrot Green-LT	377	148	362	142	349	137
922	Copper-LT	42	17	41	16	39	15
927	Gray Green-LT	73	28	70	27	67	26
948	Peach-VY LT	210	82	201	79	194	76
950	Desert Sand-LT	187	73	180	71	173	68
955	Nile Green-LT	468	184	450	177	433	170
970	Pumpkin-LT	26	10	25	10	24	9
975	Golden Brown-DK	212	83	204	80	196	77
977	Golden Brown-LT	143	56	138	54	133	52
3011	Khaki Green-DK	104	41	100	39	97	38
3012	Khaki Green-MD	956	376	919	361	885	348
3013	Khaki Green-LT	251	99	242	95	233	91
3024	Brown Gray-VY LT	421	166	405	159	390	153
3032	Mocha Brown-MD	287	113	276	109	266	105
3046	Yellow Beige-MD	519	204	499	196	481	189
3047	Yellow Beige-LT	204	80	196	77	189	74
3052	Green Gray-MD	160	63	154	60	148	58
3078	Golden Yellow-VY LT	475	186	457	179	440	173
3341	Apricot	204	80	197	77	189	74
3346	Hunter Green	24	9	23	8	22	8
3348	Yellow Green-LT	695	273	668	262	643	253
3364	Pine Green	812	320	781	307	752	296
3371	Black Brown	490	193	471	186	454	179
3740	Antique Violet-DK	14	5	13	5	13	5
3756	Baby Blue-UL VY LT	1489	586	1432	564	1379	543
3772	Desert Sand-VY DK	554	217	532	209	513	201
3776	Mahogany-LT	127	50	122	48	117	46
3811	Turquoise-VY LT	117	46	113	44	109	43
3813	Blue Green-LT	328	129	316	124	304	119
3819	Moss Green-LT	206	81	198	78	191	75
3820	Straw-DK	82	32	79	30	76	29
3823	Yellow-UL Pale	214	84	206	80	198	77
3829	Old Gold-VY DK	89	35	85	33	82	32
3852	Straw-VY DK	2174	855	2090	822	2013	792
3853	Autumn Gold-DK	89	35	85	33	82	32
3854	Autumn Gold-MD	734	289	705	278	679	267
3855	Autumn Gold-LT	473	186	455	179	438	172
3856	Mahogany-UL VY LT	40	15	38	15	37	14
3862	Mocha Beige-DK	76	30	73	28	71	27
3864	Mocha Beige-LT	279	109	268	105	258	101
3865	Winter White	2393	942	2301	906	2215	872
3866	Mocha Brown-UL VY LT	472	185	453	178	437	171
Ecru	Ecru	116	45	111	44	107	42

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	161	63	150	59	141	55
300	Mahogany-VY DK	95	37	89	35	83	33
301	Mahogany-MD	243	95	227	89	213	83
307	Lemon	240	94	224	88	210	82
318	Steel Gray-LT	96	38	90	35	84	33

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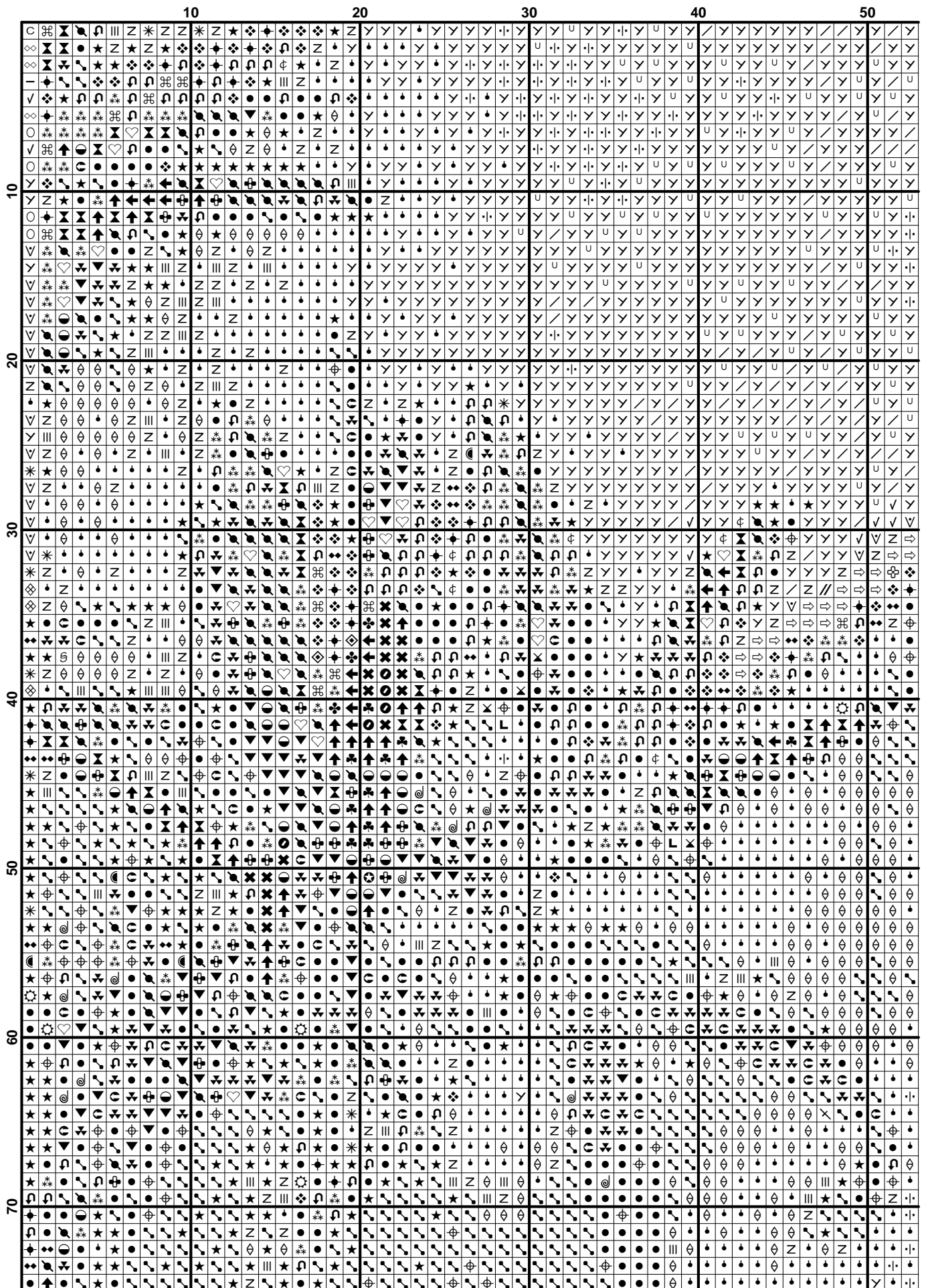
402	Mahogany-VY LT	97	38	91	35	85	33
413	Pewter Gray-DK	15	6	14	5	13	5
414	Steel Gray-DK	22	8	20	8	19	7
415	Pearl Gray	249	98	233	91	218	86
434	Brown-LT	113	44	105	41	98	38
437	Tan-LT	92	36	86	34	80	32
452	Shell Gray-MD	86	33	80	31	75	29
470	Avocado Green-LT	327	129	305	120	286	113
471	Avocado Green-VY LT	601	237	561	221	526	207
504	Blue Green-LT	516	203	481	189	451	177
522	Fern Green	177	69	165	65	155	61
523	Fern Green-LT	525	206	490	193	459	181
564	Jade-VY LT	284	112	265	104	249	98
632	Desert Sand-UL VY DK	134	52	125	49	117	46
647	Beaver Gray-MD	113	44	105	41	98	38
648	Beaver Gray-LT	441	174	412	162	386	152
680	Old Gold-DK	69	27	65	25	61	24
712	Cream	333	131	311	122	291	114
720	Orange Spice-DK	183	72	171	67	160	63
721	Orange Spice-MD	15	6	14	5	14	5
730	Olive Green-VY DK	695	273	649	255	608	239
731	Olive Green-DK	644	253	601	236	564	222
732	Olive Green	1193	469	1113	438	1043	411
734	Olive Green-LT	226	89	211	83	197	78
739	Tan-UL VY LT	456	179	426	167	399	157
740	Tangerine	44	17	41	16	39	15
741	Tangerine-MD	850	334	793	312	744	293
742	Tangerine-LT	395	156	369	145	346	136
746	Off White	273	107	255	100	239	94
758	Terra Cotta-VY LT	77	30	71	28	67	26
762	Pearl Gray-VY LT	217	85	202	79	190	74
781	Topaz-VY DK	244	96	227	89	213	84
782	Topaz-DK	394	155	368	145	345	136
783	Topaz-MD	79	31	74	29	69	27
828	Blue-UL VY LT	433	170	404	158	379	149
829	Golden Olive-VY DK	395	156	369	145	346	136
832	Golden Olive	1004	395	937	368	879	345
833	Golden Olive-LT	505	199	471	185	442	174
834	Golden Olive-VY LT	118	46	110	43	104	41
898	Coffee Brown-VY DK	265	104	247	97	232	91
907	Parrot Green-LT	336	132	314	123	294	115
922	Copper-LT	38	15	35	14	33	13
927	Gray Green-LT	65	25	61	23	57	22
948	Peach-VY LT	187	73	175	68	164	64
950	Desert Sand-LT	167	66	156	61	146	57
955	Nile Green-LT	418	164	390	153	366	143
970	Pumpkin-LT	23	9	22	8	20	8
975	Golden Brown-DK	189	74	176	69	165	65
977	Golden Brown-LT	128	50	119	47	112	44
3011	Khaki Green-DK	93	37	87	34	82	32
3012	Khaki Green-MD	854	336	797	313	747	294
3013	Khaki Green-LT	224	88	209	82	196	77
3024	Brown Gray-VY LT	376	148	351	138	329	129
3032	Mocha Brown-MD	257	101	239	94	224	88
3046	Yellow Beige-MD	464	182	433	170	406	159
3047	Yellow Beige-LT	182	71	170	67	159	62
3052	Green Gray-MD	143	56	133	52	125	49
3078	Golden Yellow-VY LT	424	167	396	155	371	146
3341	Apricot	183	71	170	67	160	62

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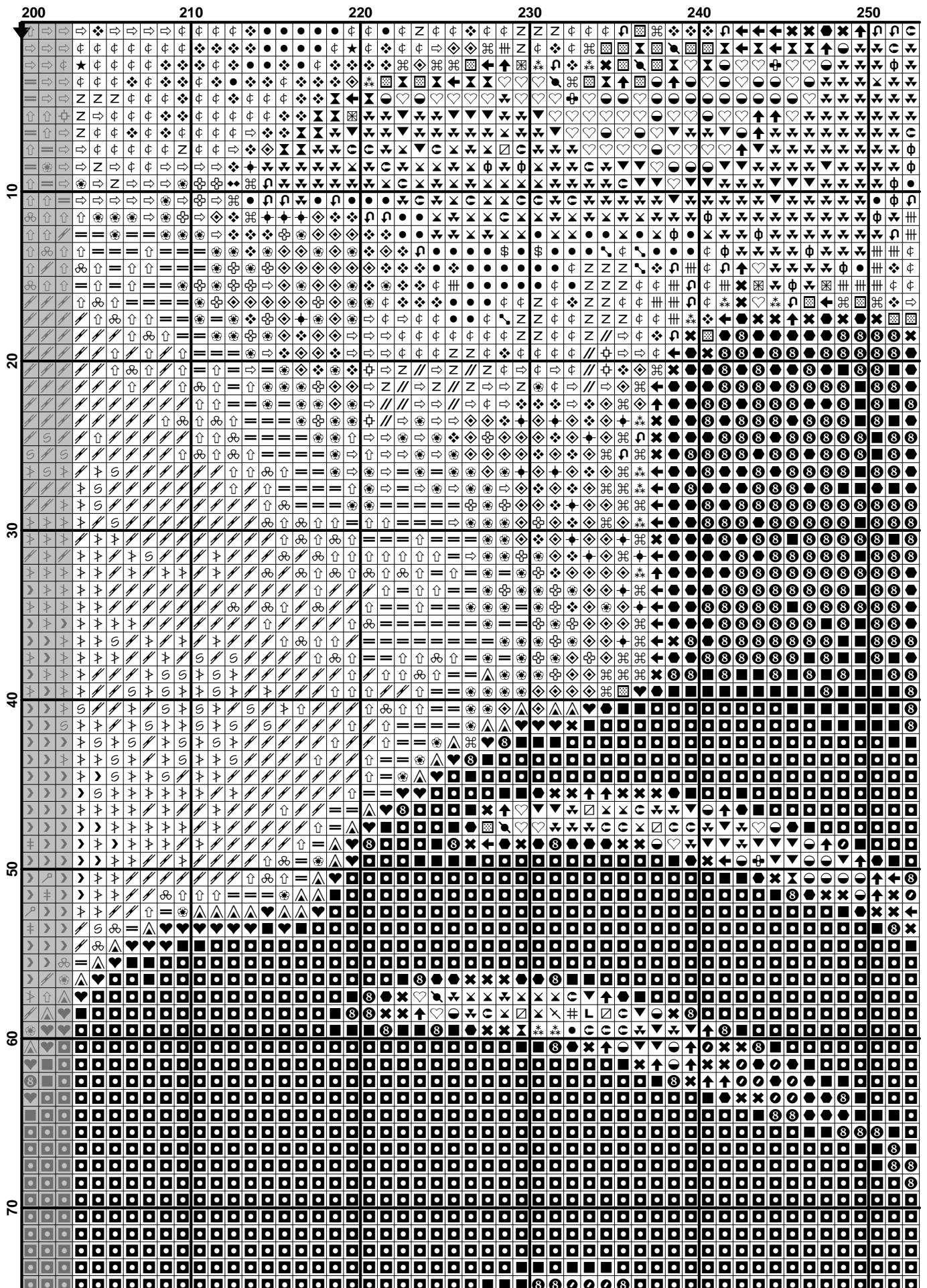
3346	Hunter Green	21	8	20	7	19	7
3348	Yellow Green-LT	620	244	579	227	543	213
3364	Pine Green	725	285	677	266	635	250
3371	Black Brown	438	172	409	161	383	151
3740	Antique Violet-DK	12	5	11	4	11	4
3756	Baby Blue-UL VY LT	1329	523	1241	488	1163	458
3772	Desert Sand-VY DK	494	194	461	181	433	170
3776	Mahogany-LT	113	44	106	41	99	39
3811	Turquoise-VY LT	105	41	98	38	92	36
3813	Blue Green-LT	293	115	274	107	257	101
3819	Moss Green-LT	184	72	172	67	161	63
3820	Straw-DK	73	28	68	26	64	25
3823	Yellow-UL Pale	191	75	178	70	167	65
3829	Old Gold-VY DK	79	31	74	29	69	27
3852	Straw-VY DK	1941	764	1811	713	1698	668
3853	Autumn Gold-DK	79	31	74	29	69	27
3854	Autumn Gold-MD	655	258	611	241	573	226
3855	Autumn Gold-LT	422	166	394	155	370	145
3856	Mahogany-UL VY LT	35	14	33	13	31	12
3862	Mocha Beige-DK	68	26	64	25	60	23
3864	Mocha Beige-LT	249	98	232	91	218	86
3865	Winter White	2136	841	1994	785	1869	736
3866	Mocha Brown-UL VY LT	421	165	393	154	368	145
Ecrú	Ecrú	104	41	97	38	91	35

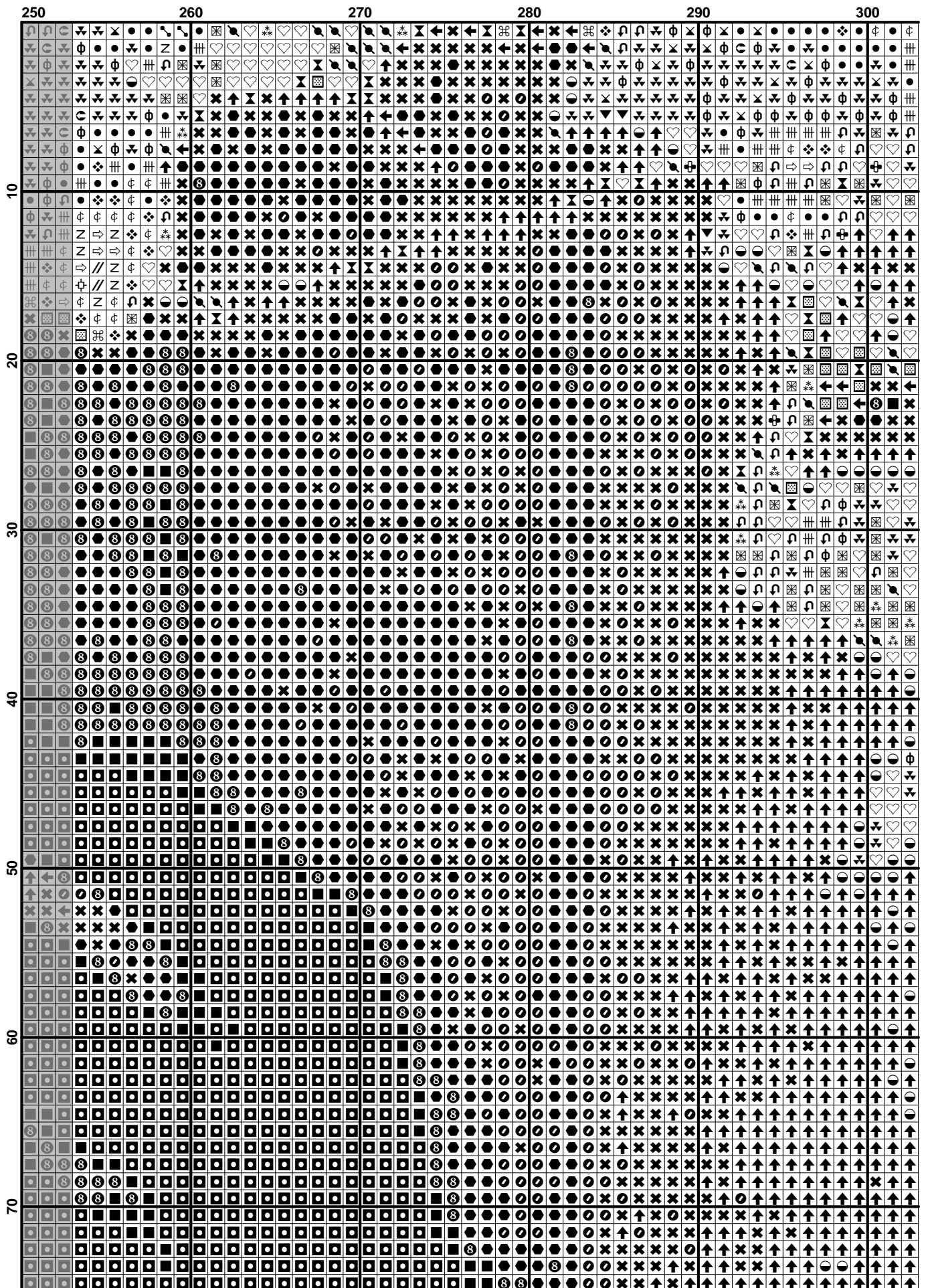


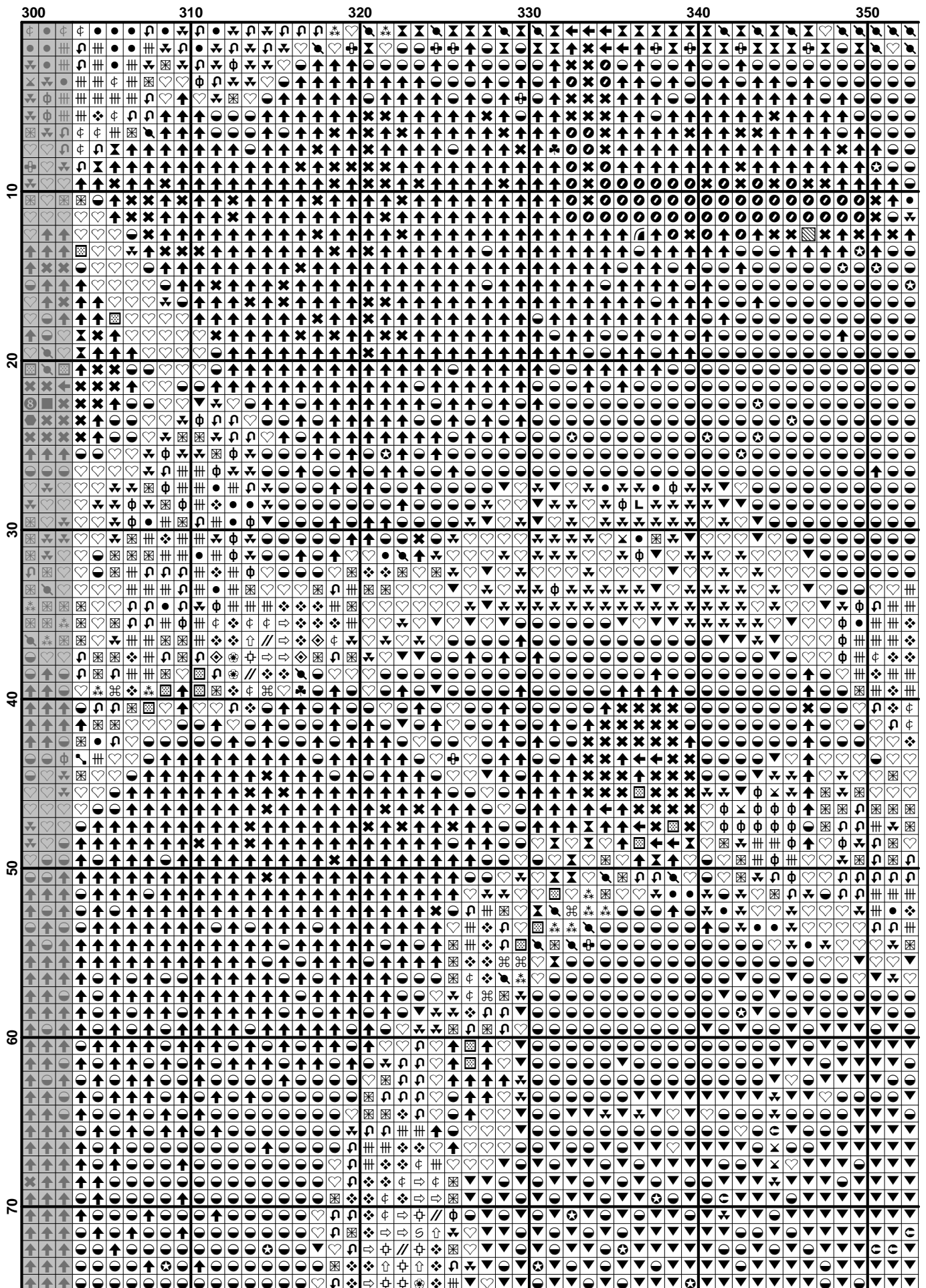
$$(10) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (11)$$

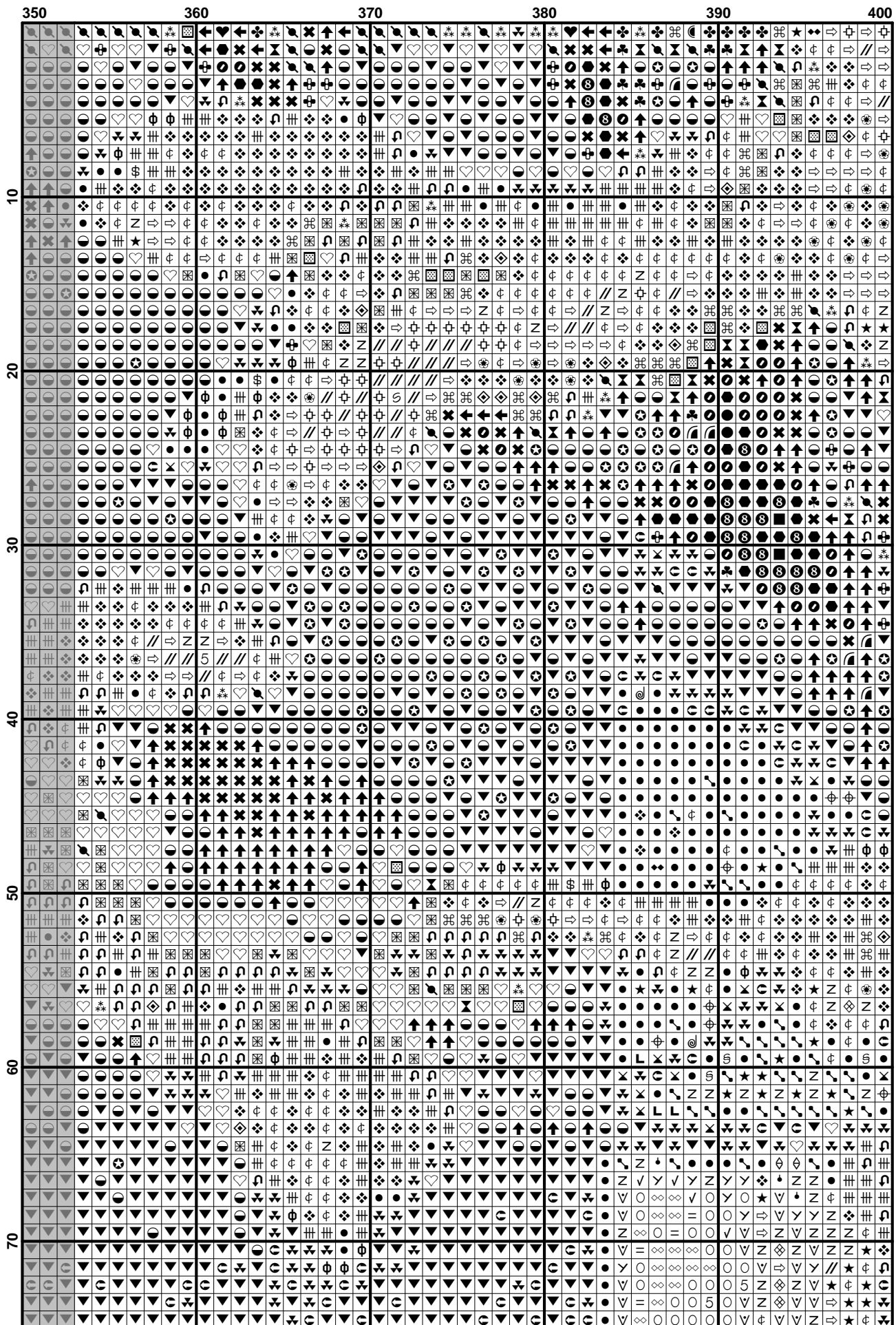
$$(11) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (12)$$

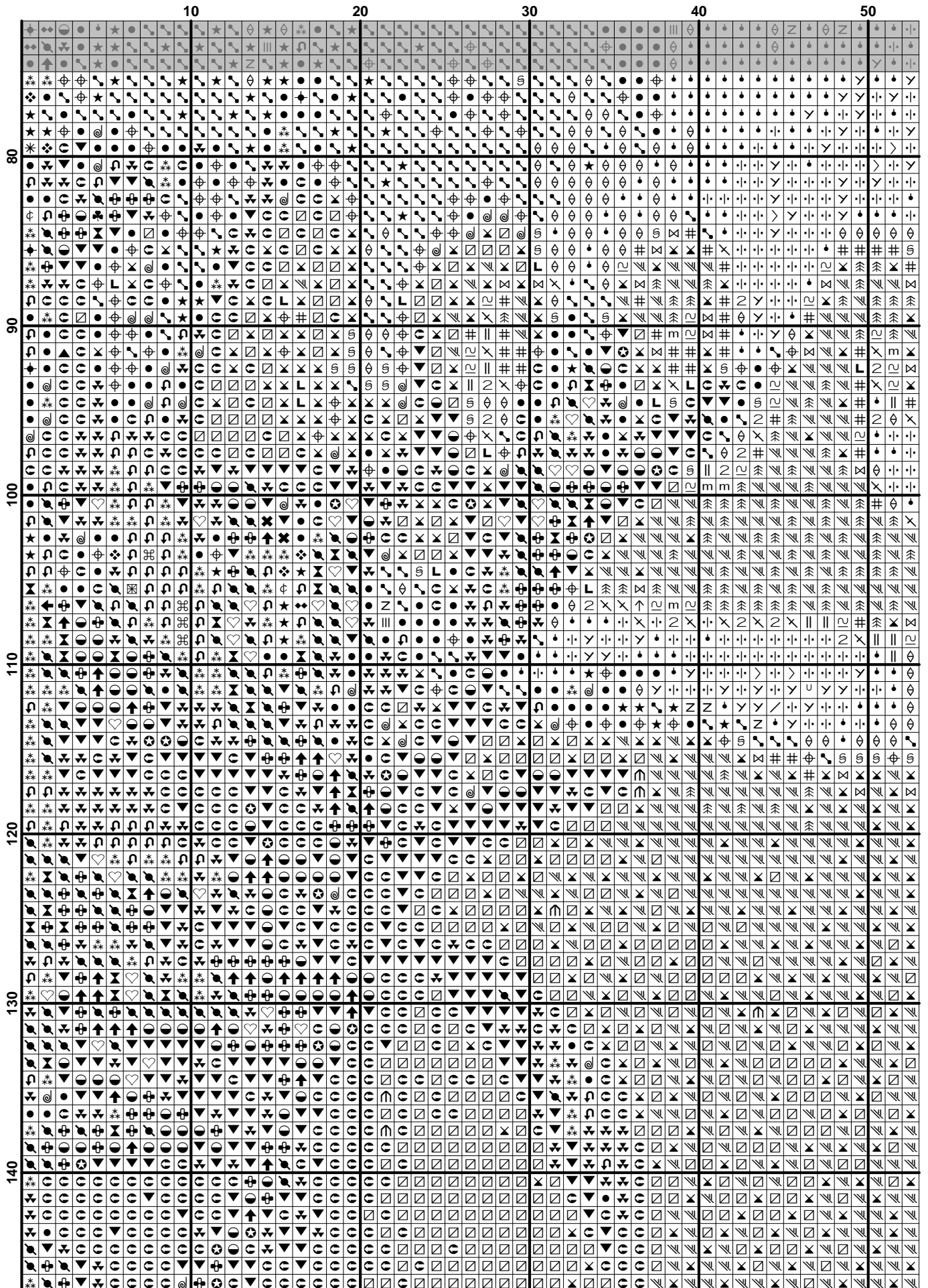
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	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
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	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
	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</																								

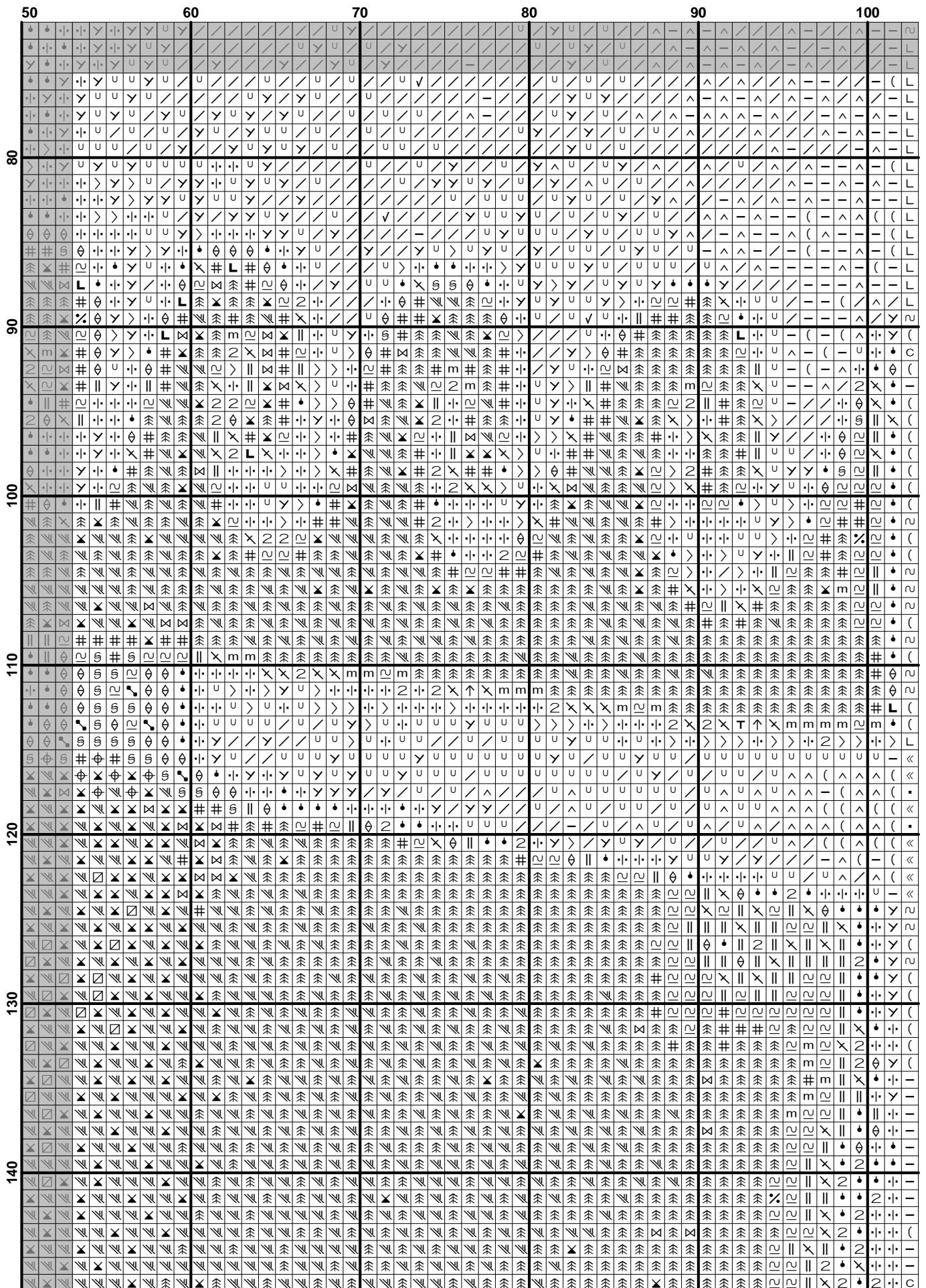






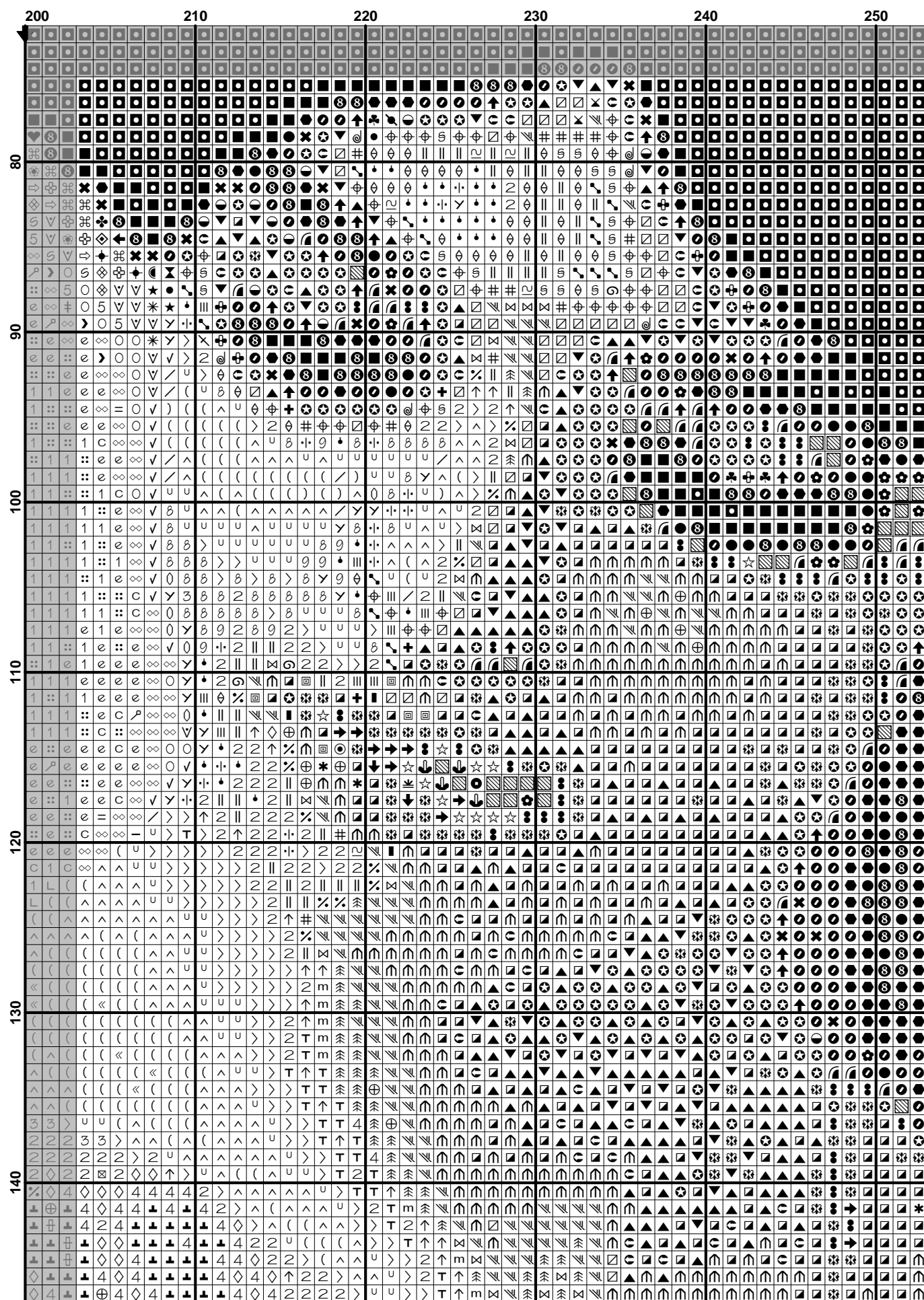


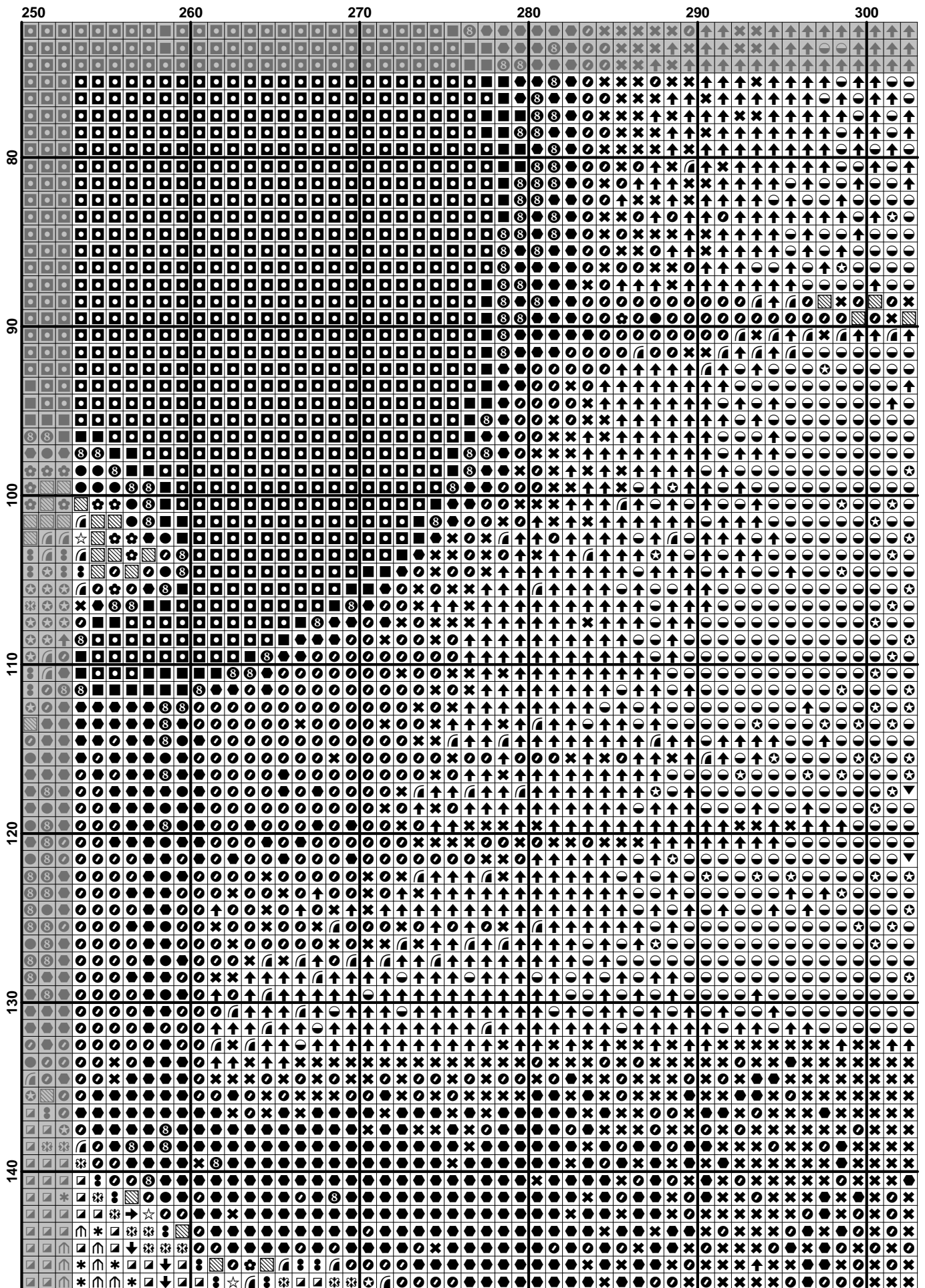


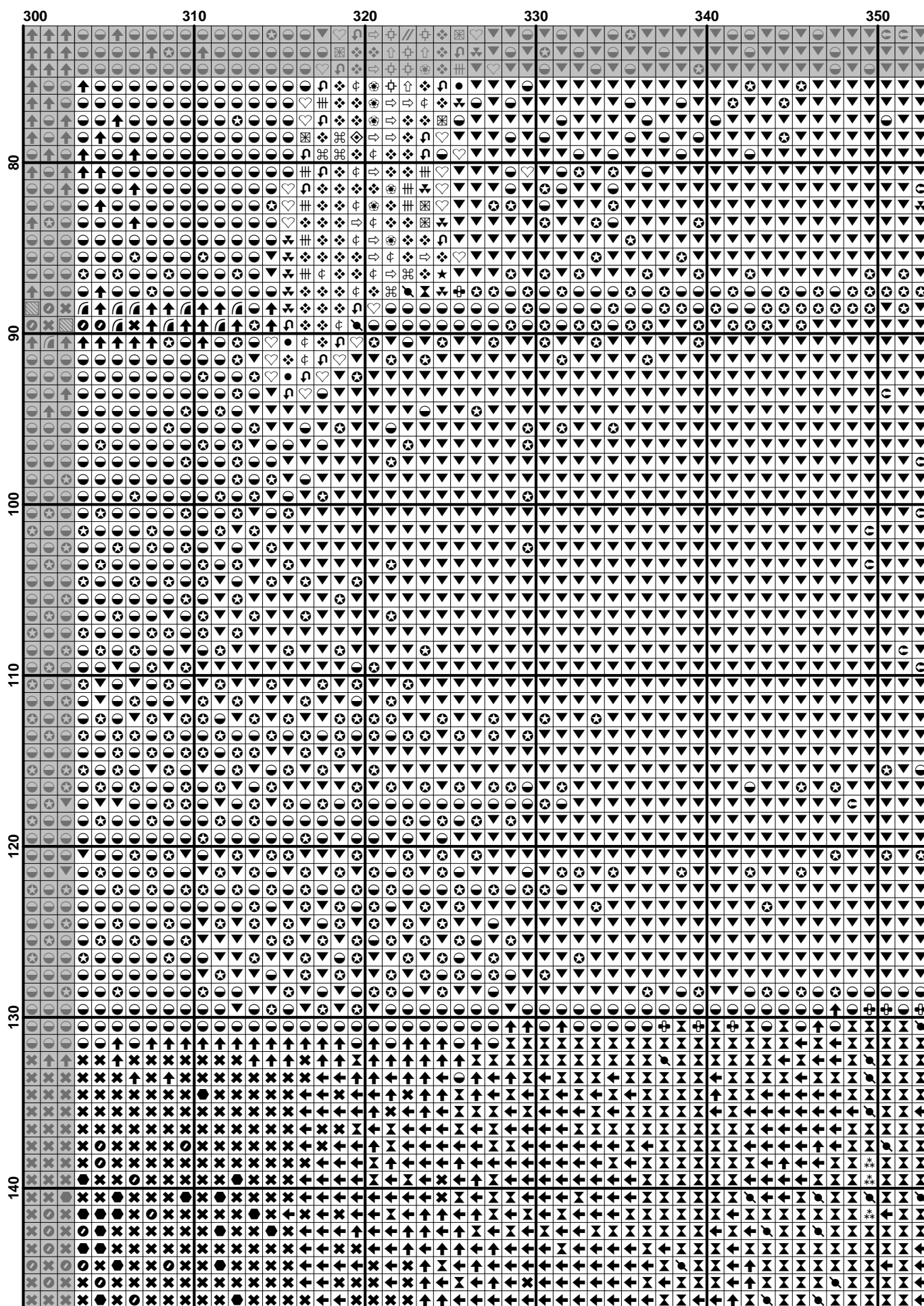


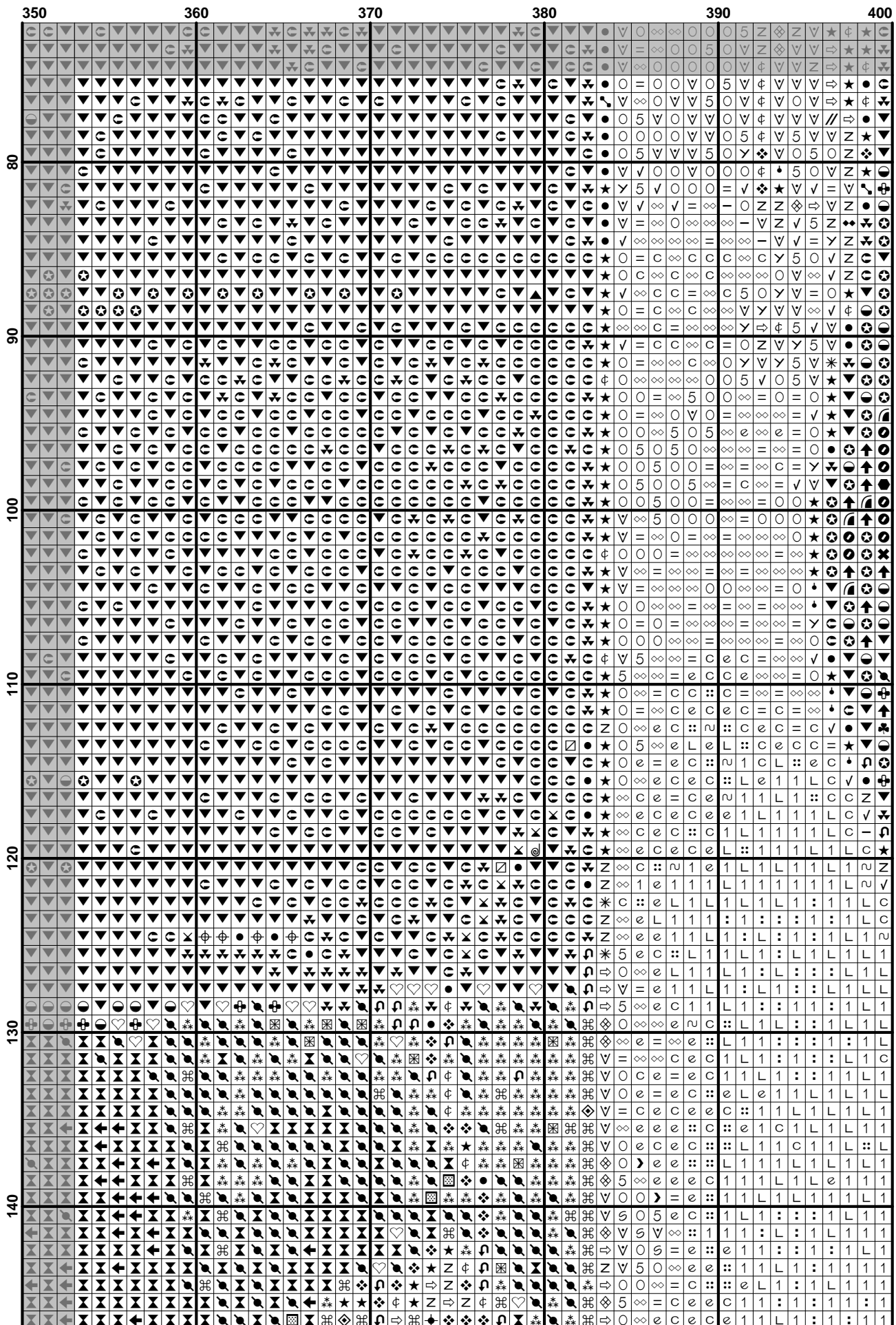
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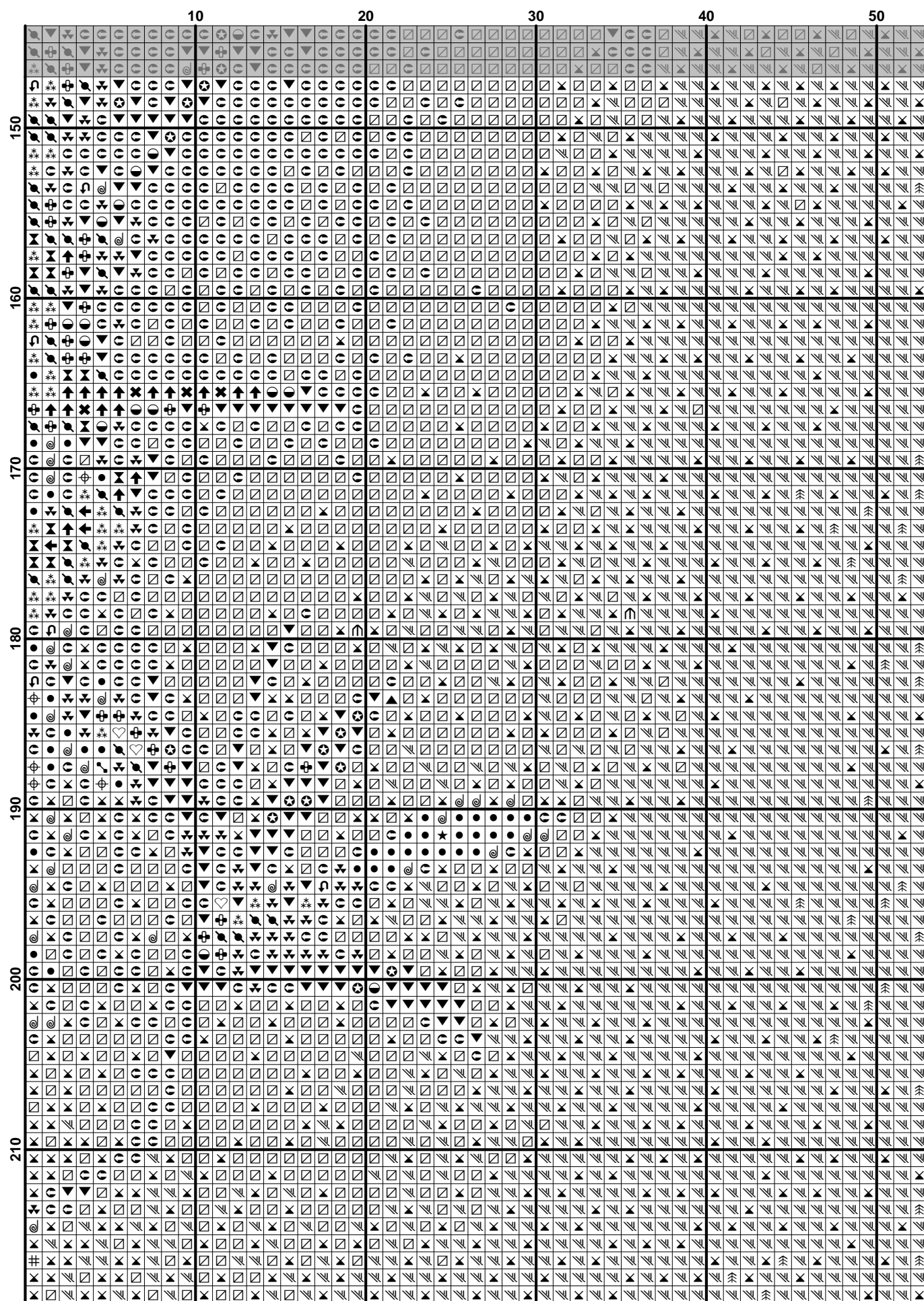
$$(20) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (21)$$

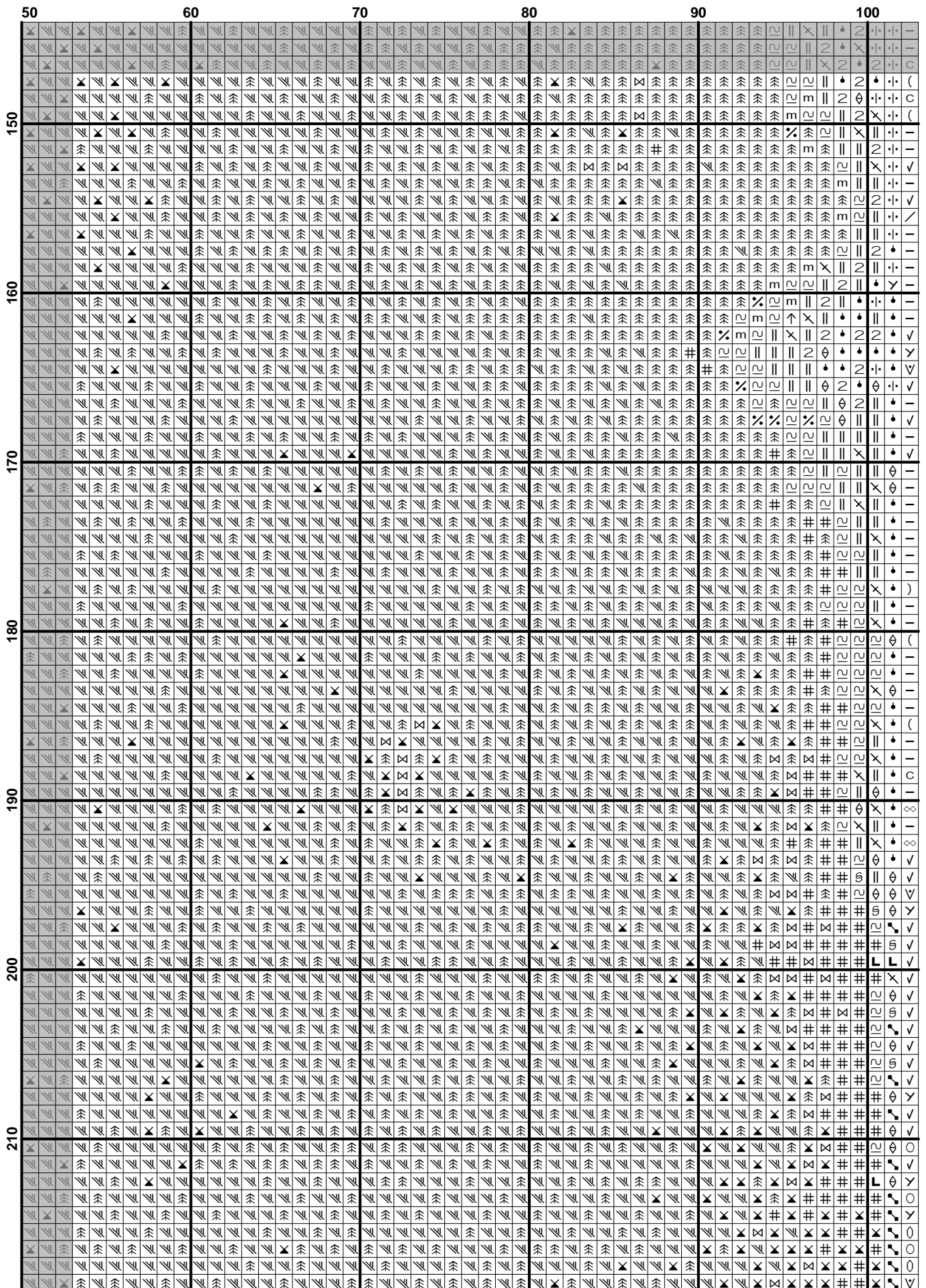






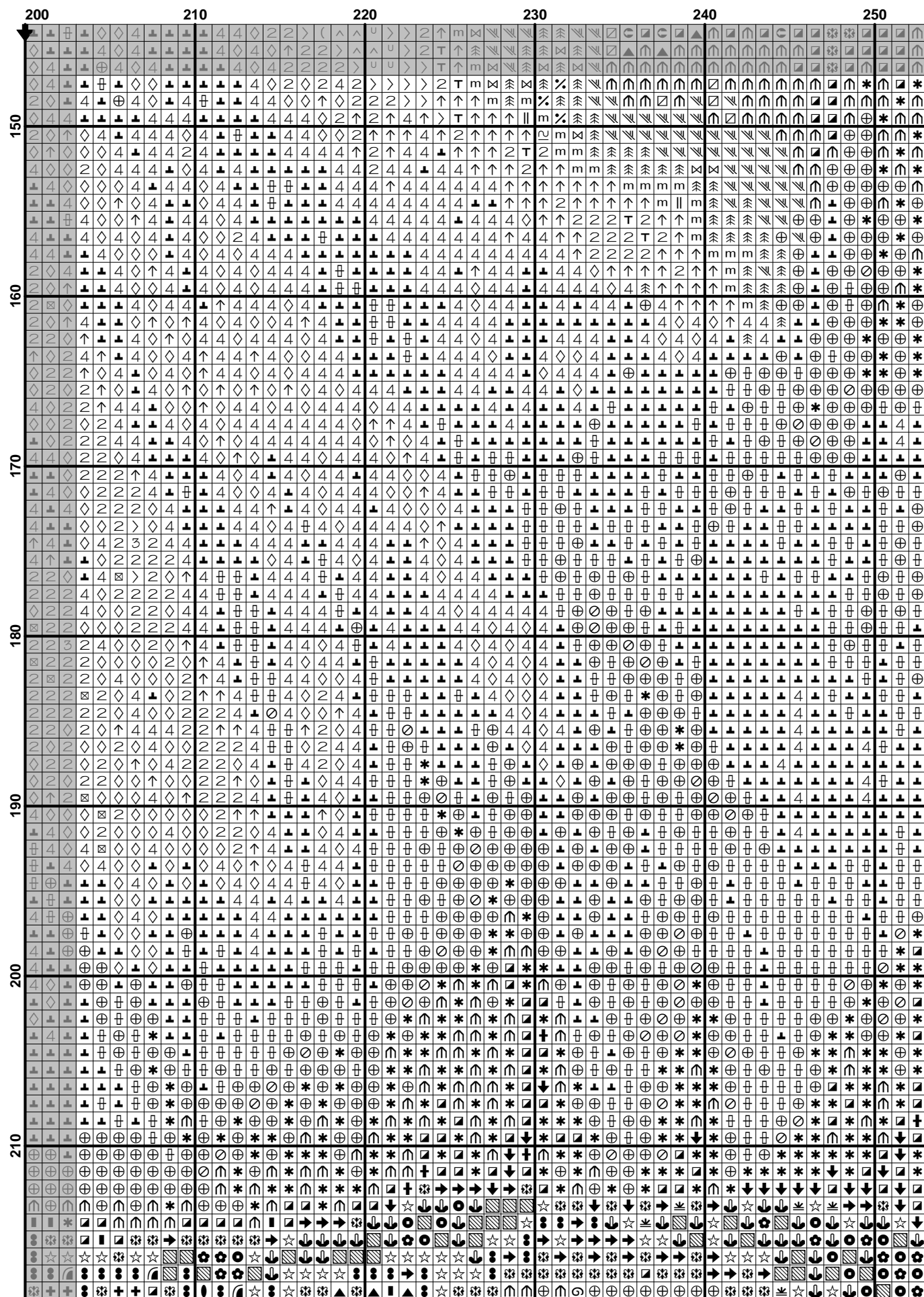


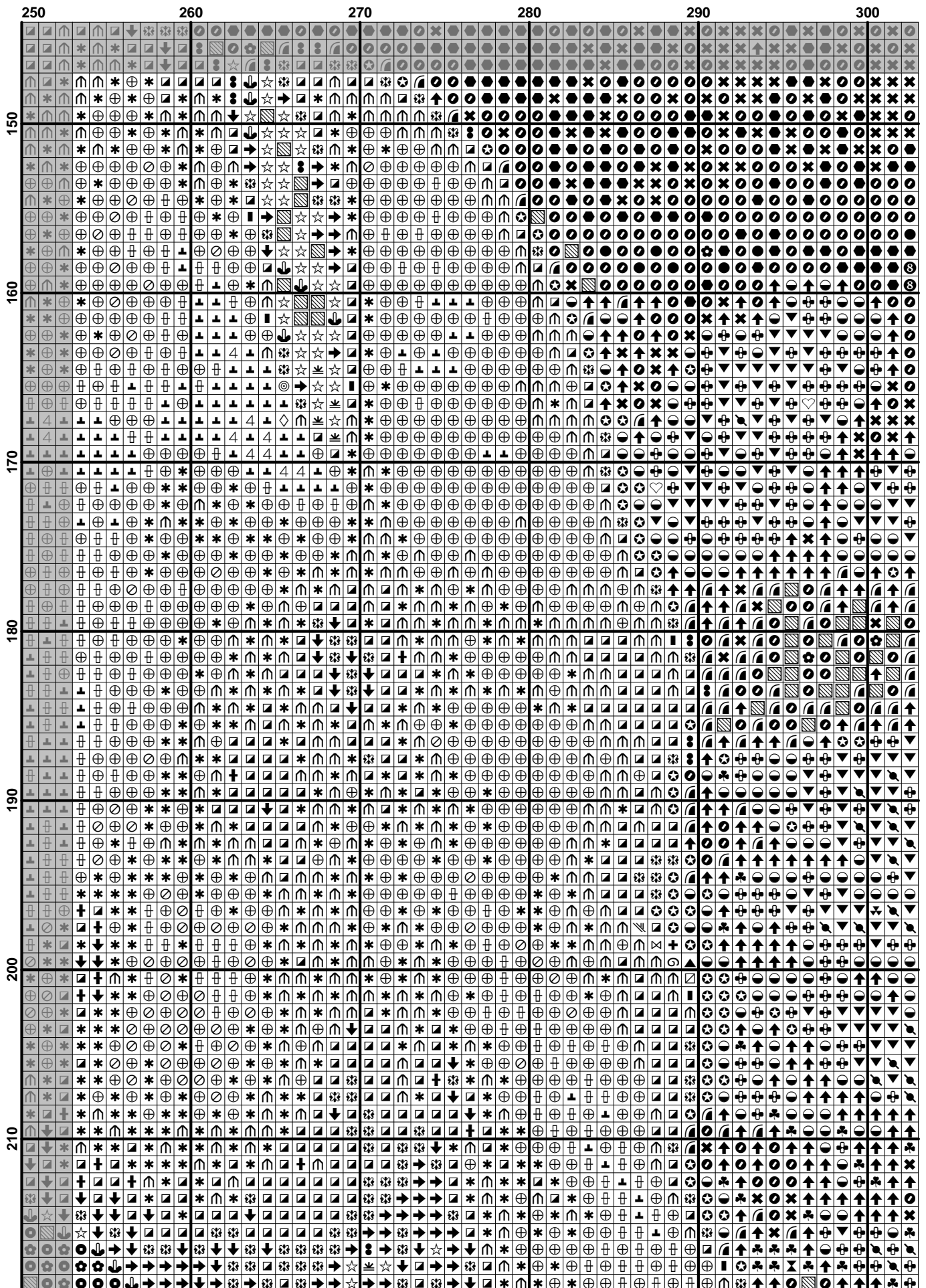


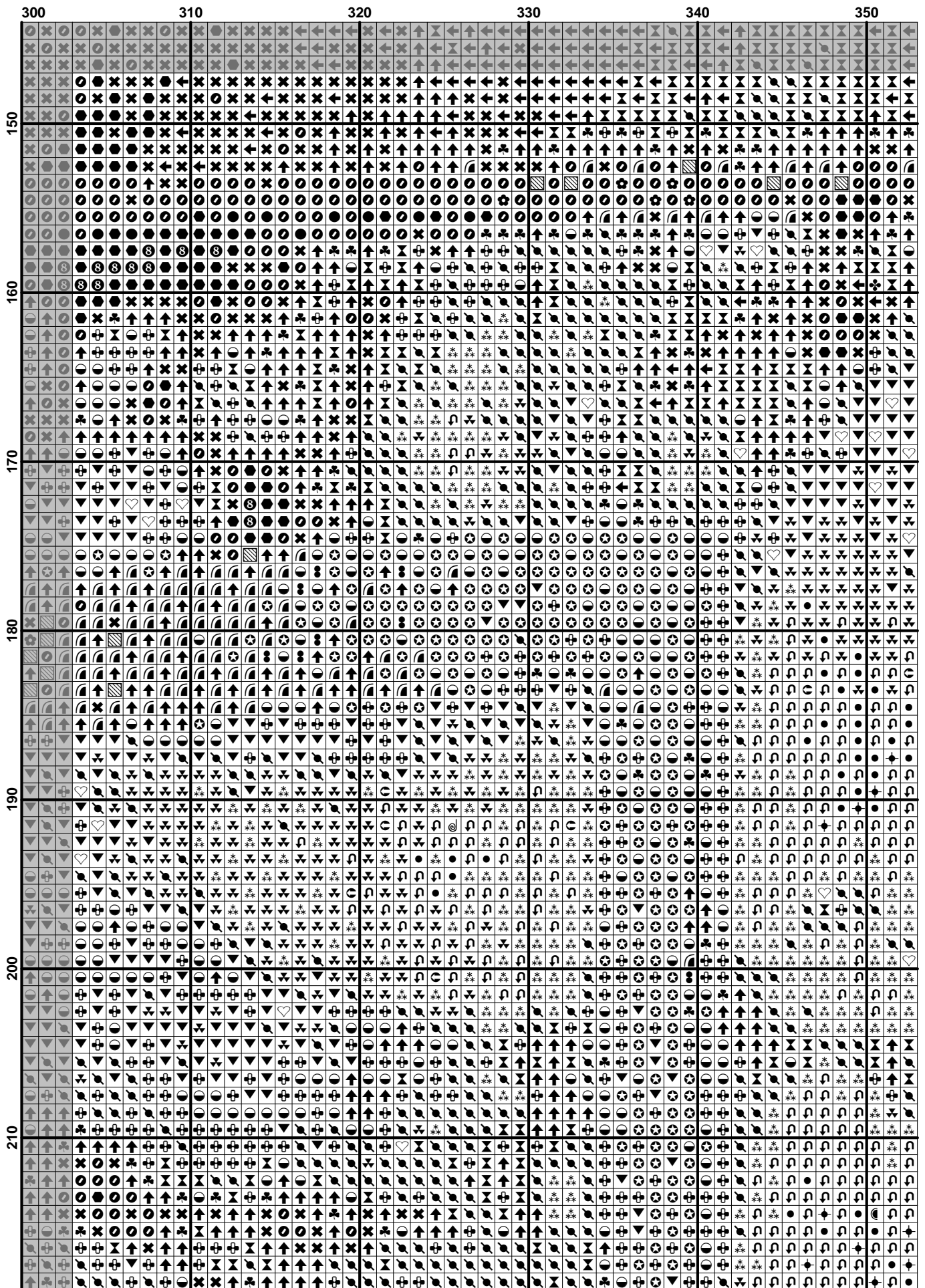


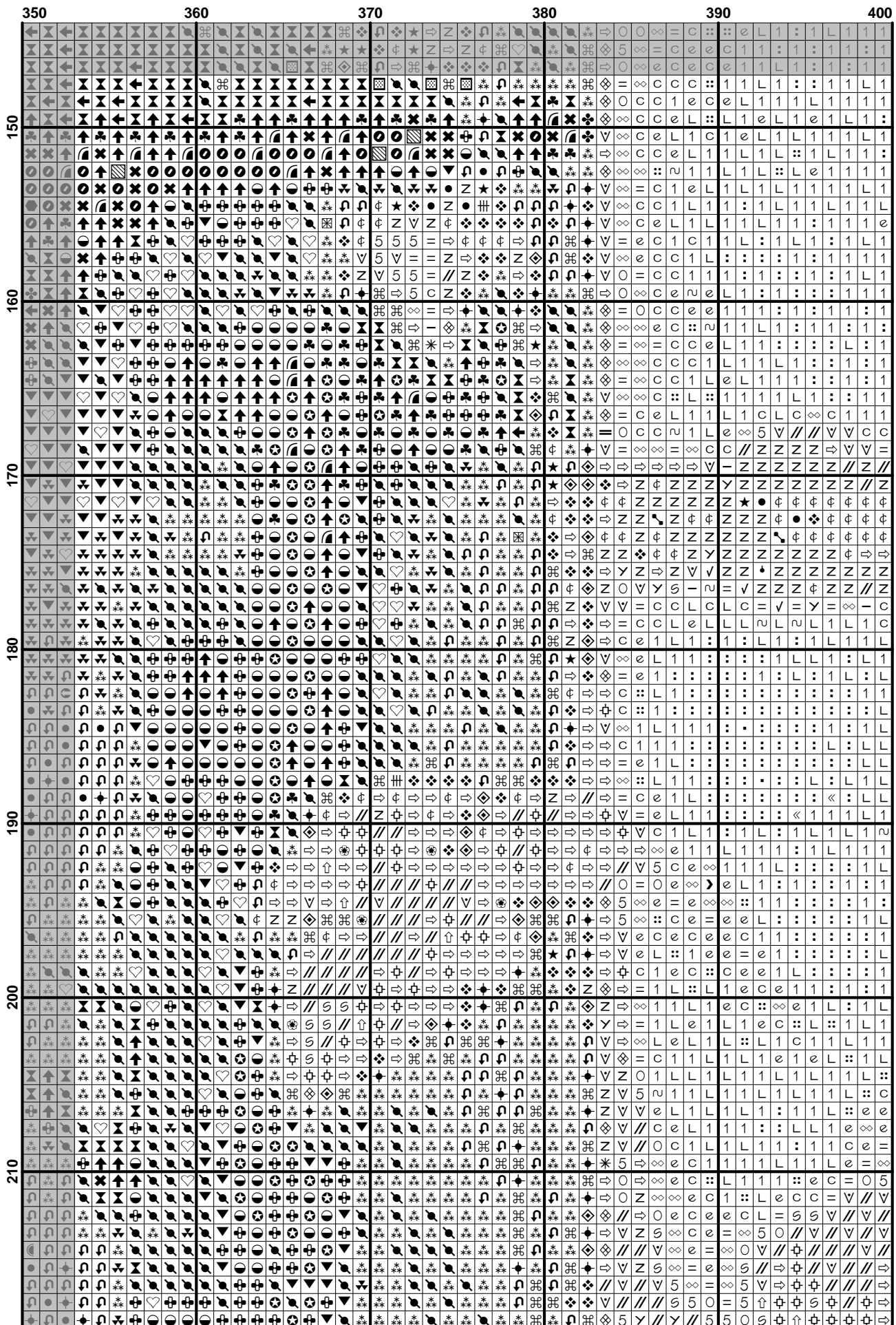
$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

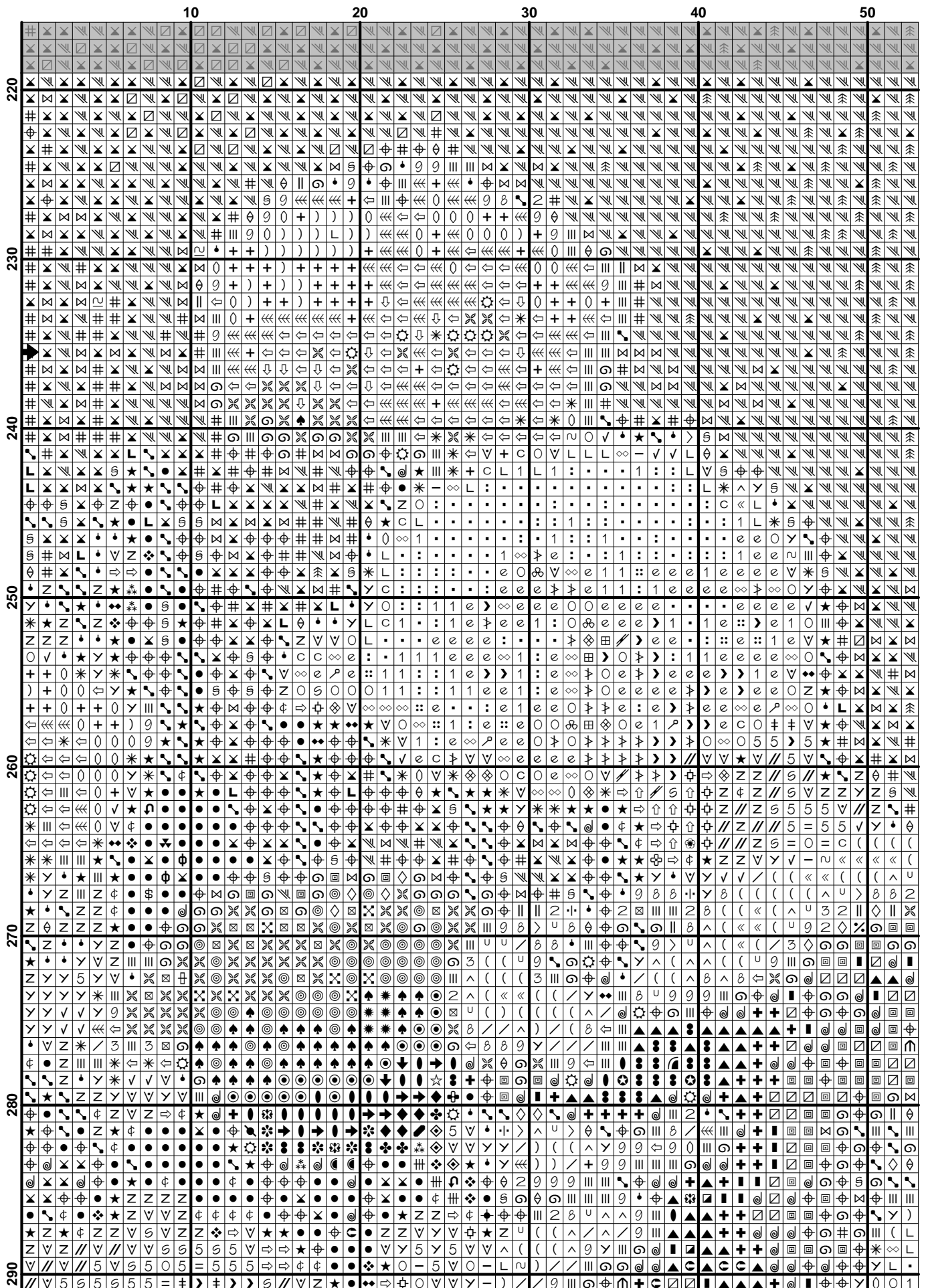
$$(28) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (29)$$





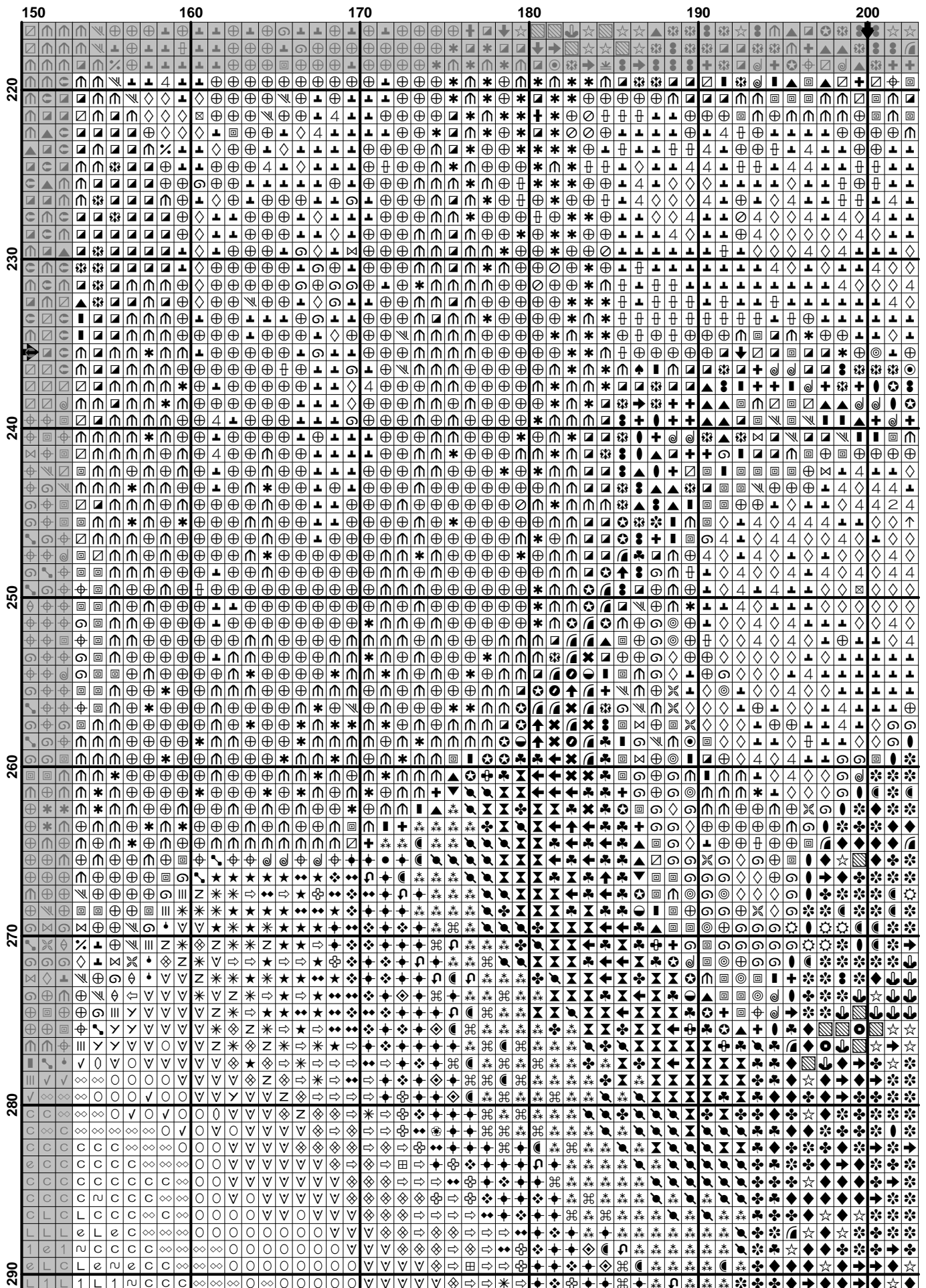


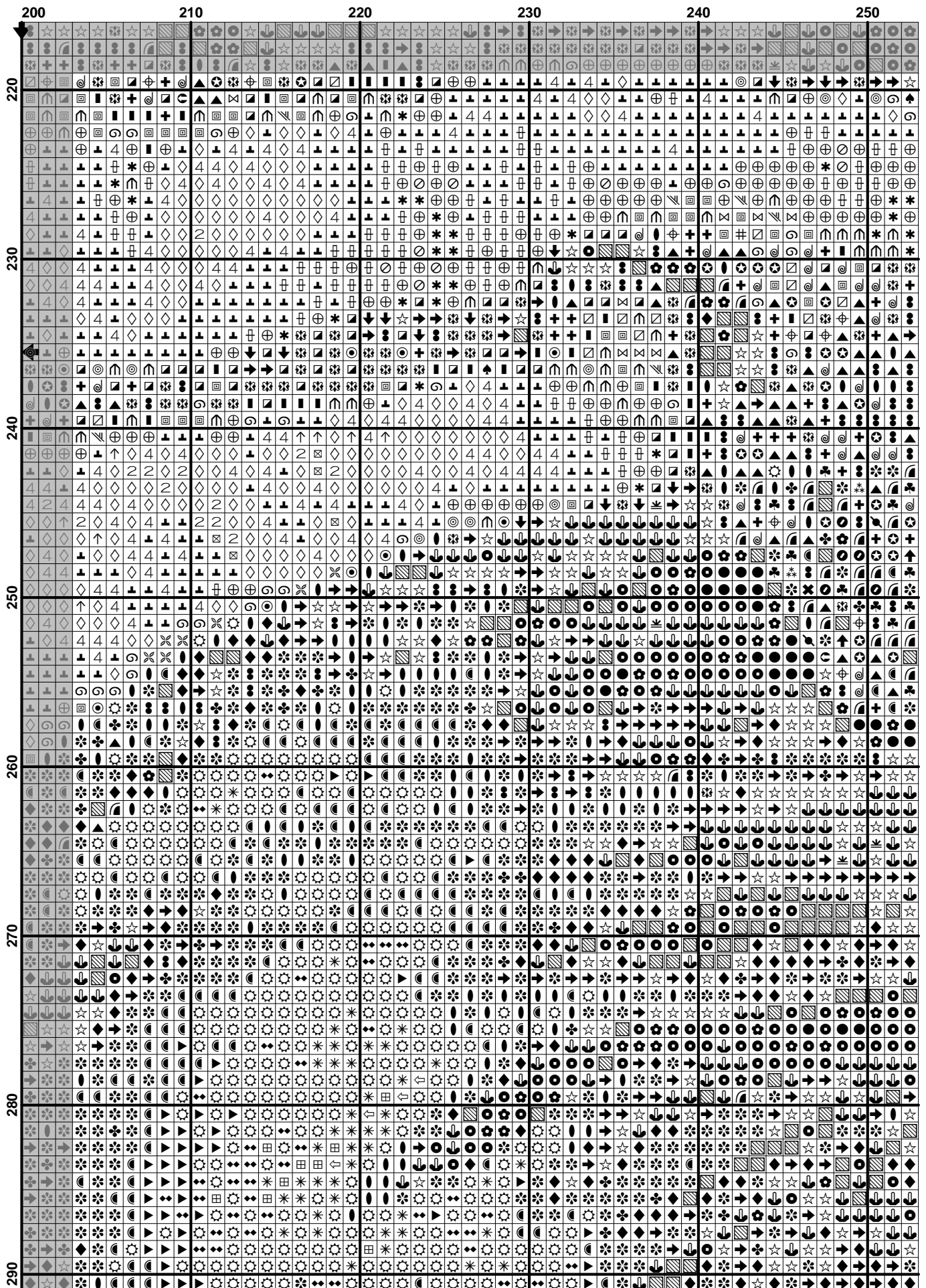


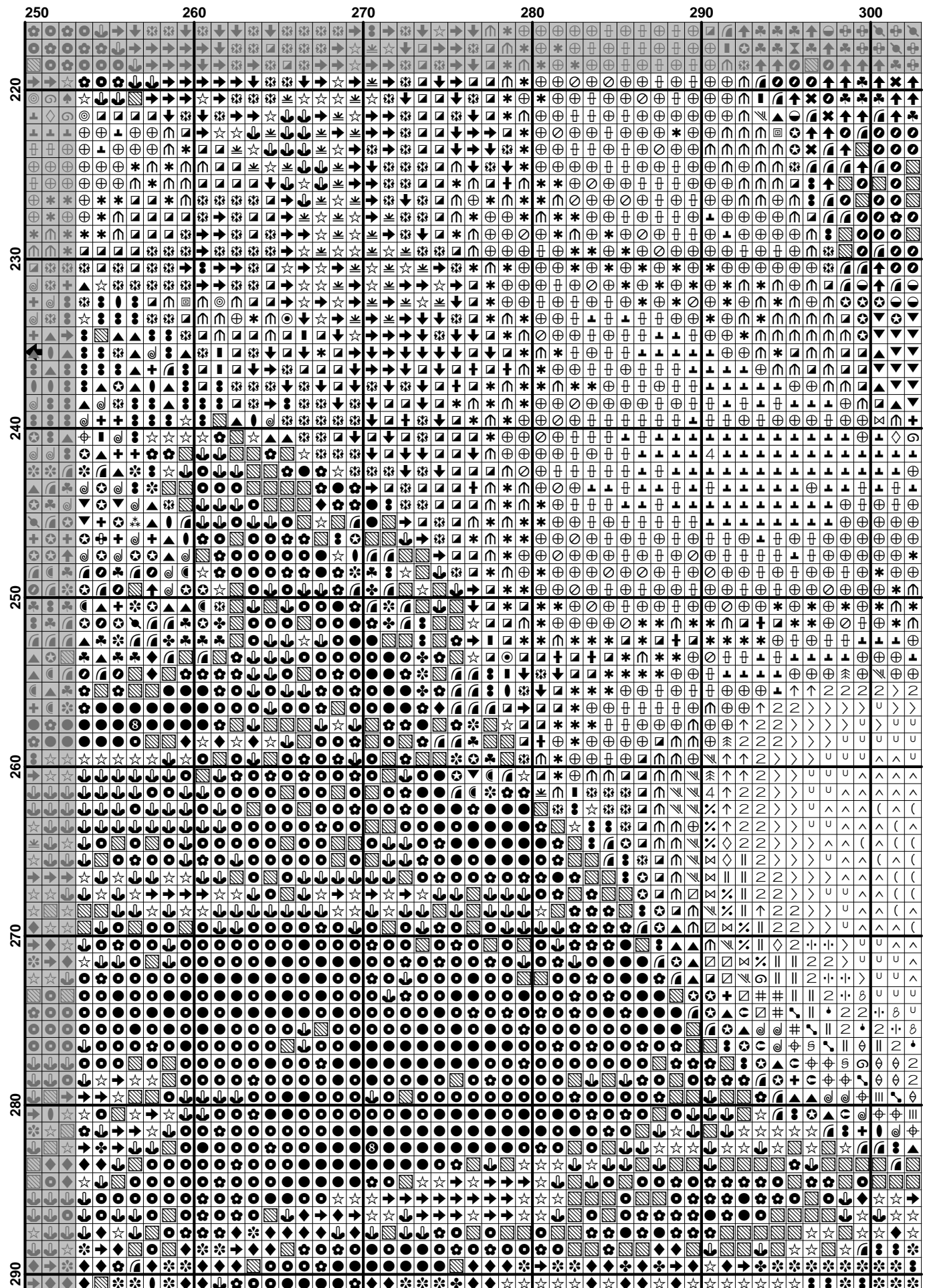


	50	60	70	80	90	100
220
230
240
250
260
270
280
290

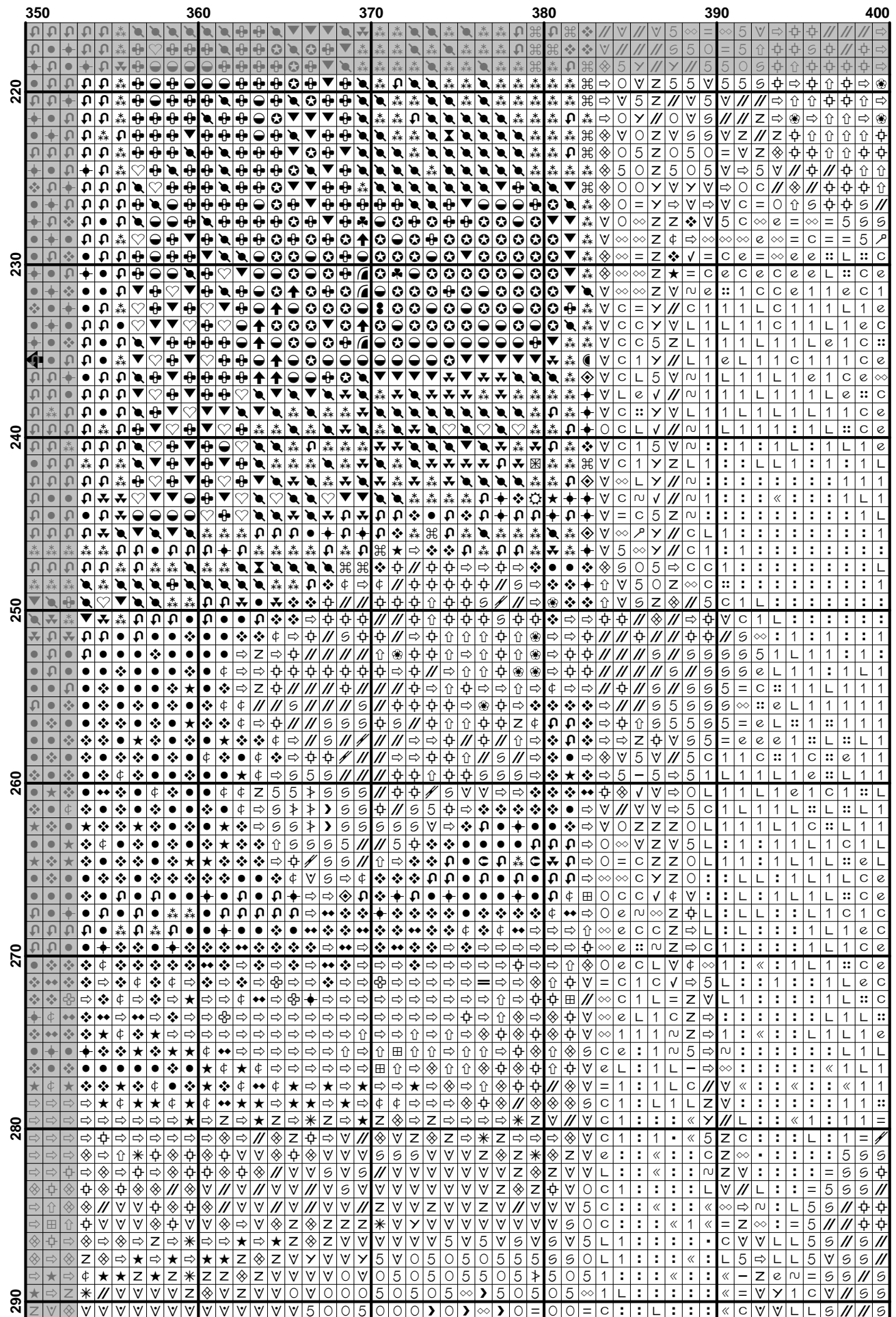
	100	110	120	130	140	150
220	100	110	120	130	140	150
230	230	230	230	230	230	230
240	240	240	240	240	240	240
250	250	250	250	250	250	250
260	260	260	260	260	260	260
270	270	270	270	270	270	270
280	280	280	280	280	280	280
290	290	290	290	290	290	290











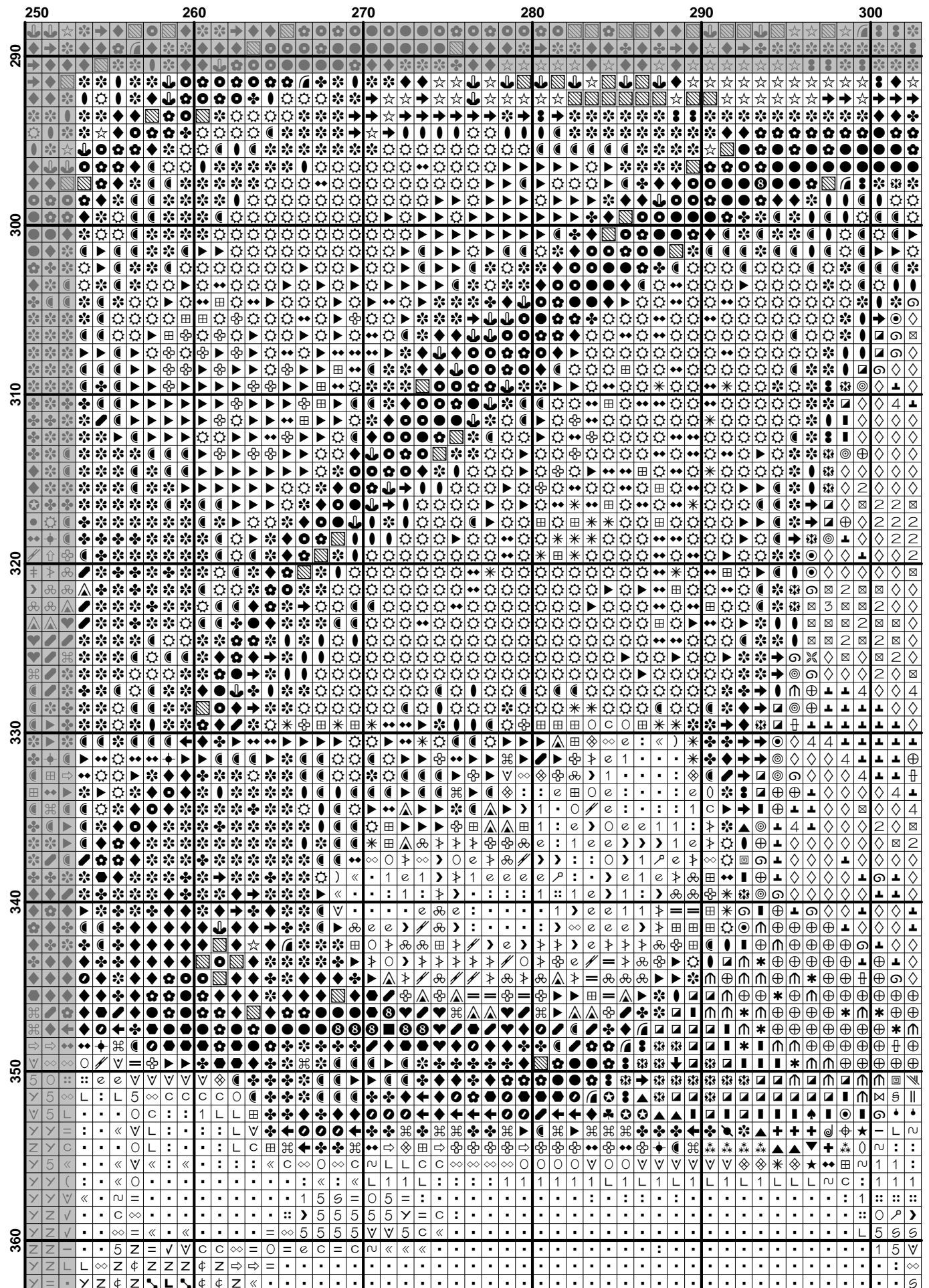
[illegible]

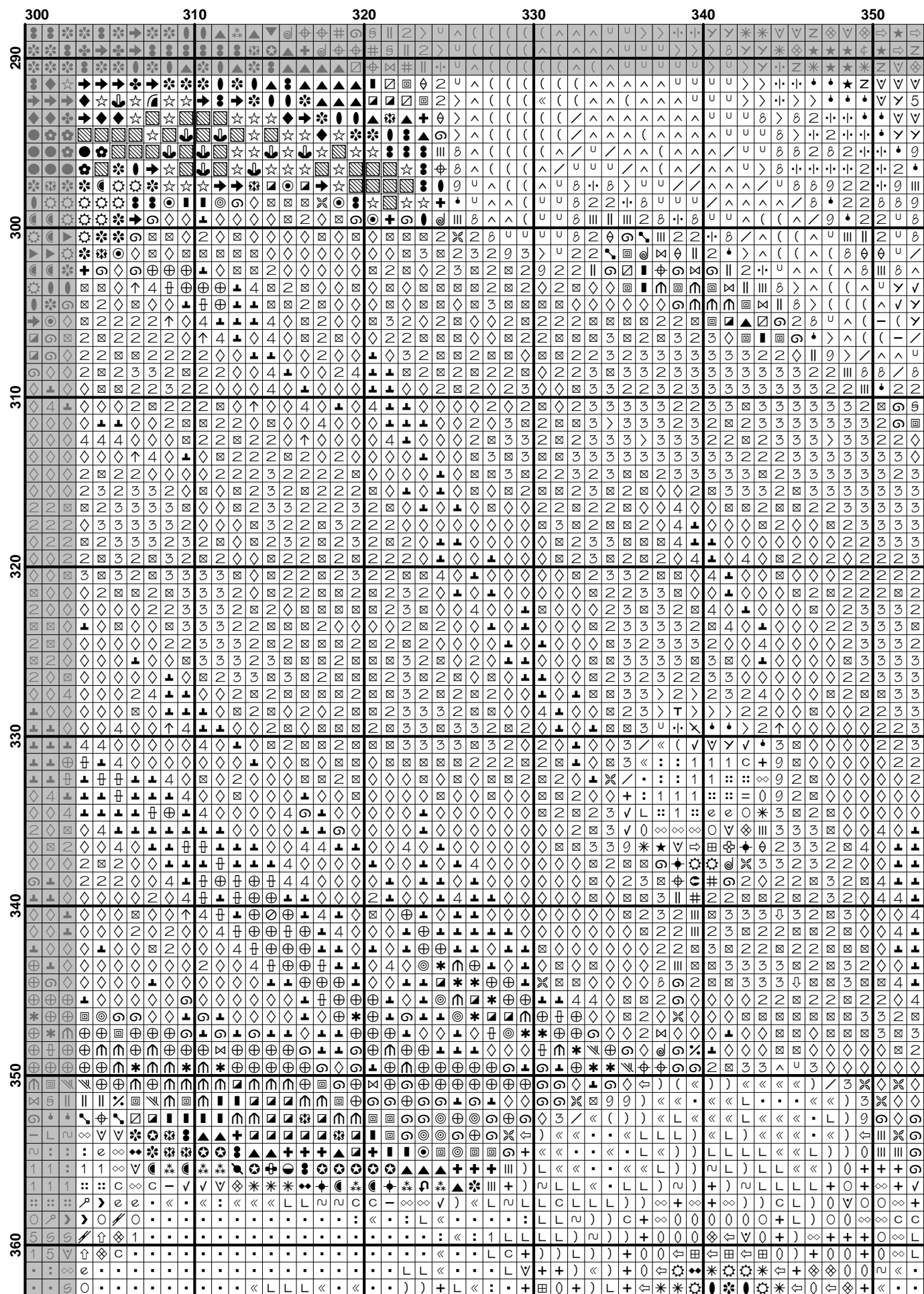
	50	60	70	80	90	100
290
300
310
320
330
340
350
360

[illegible]

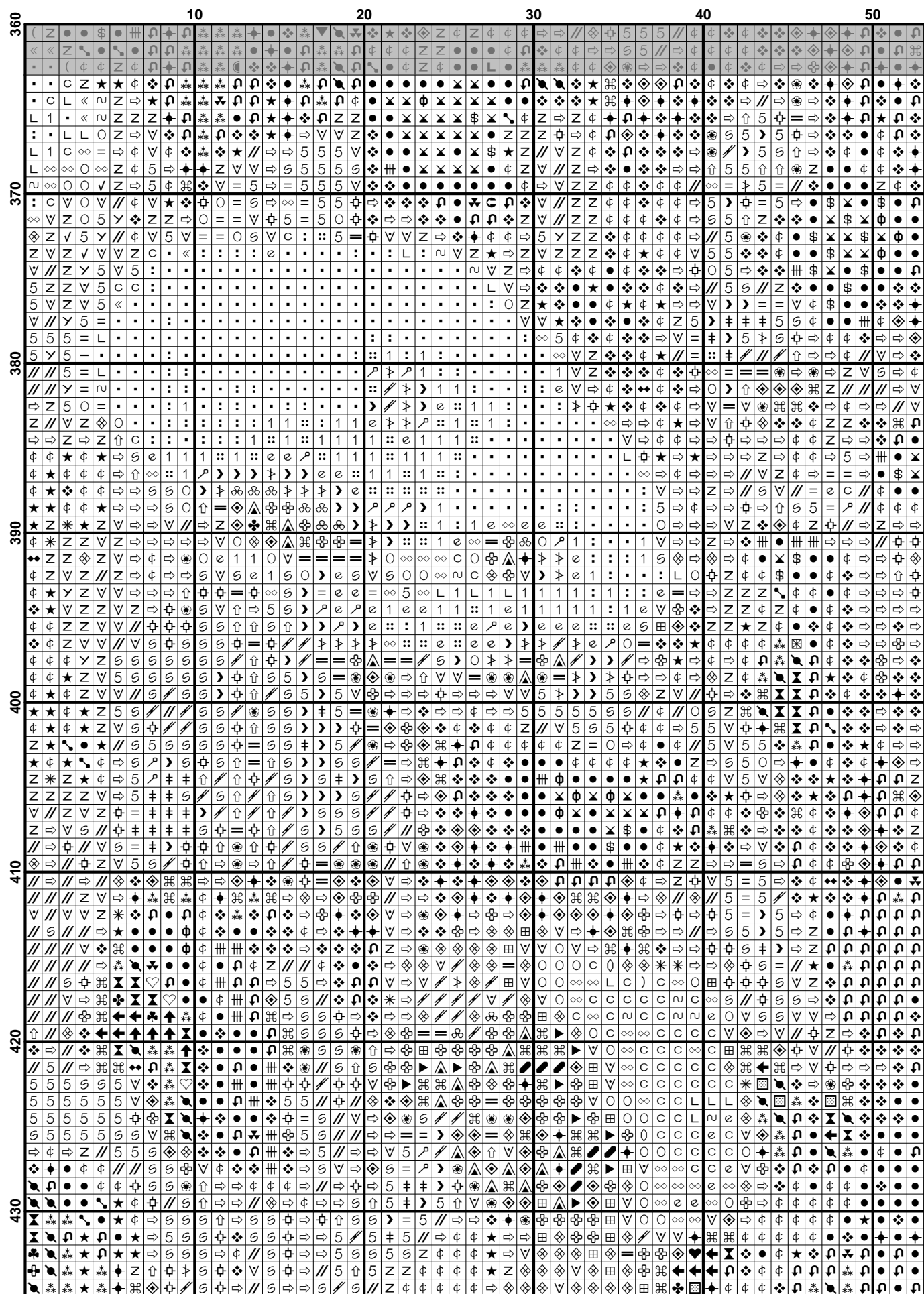
$$(44) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

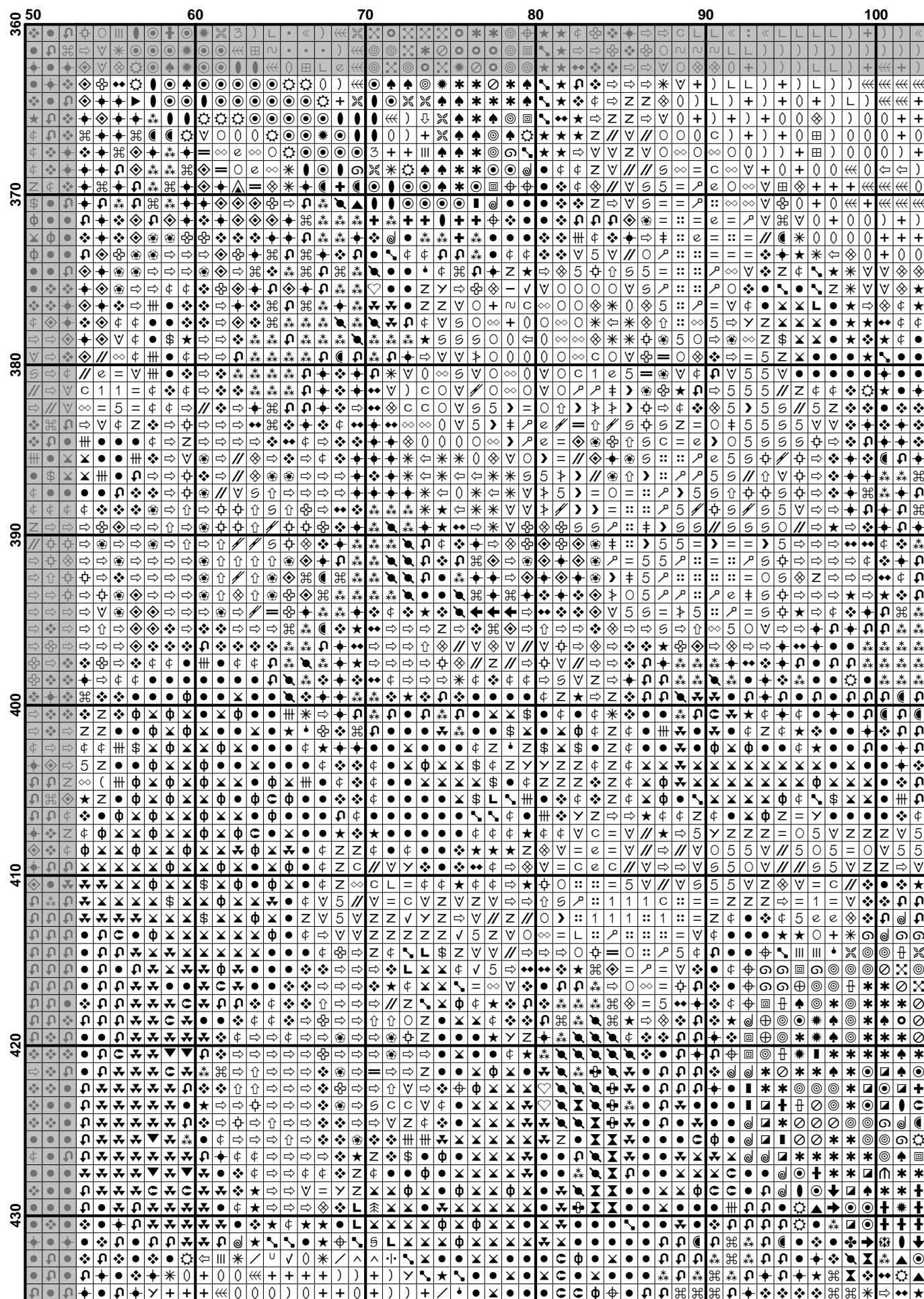


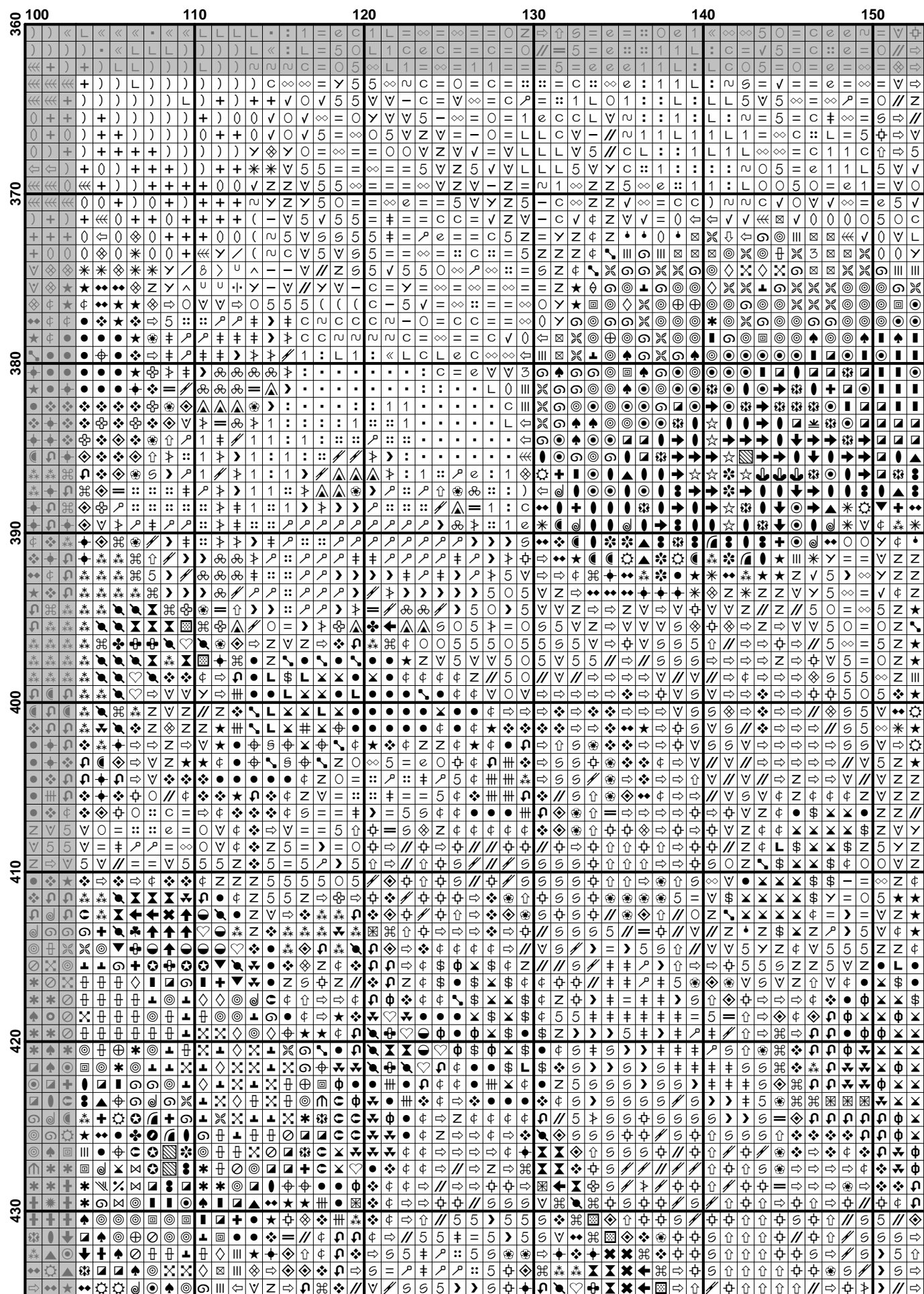


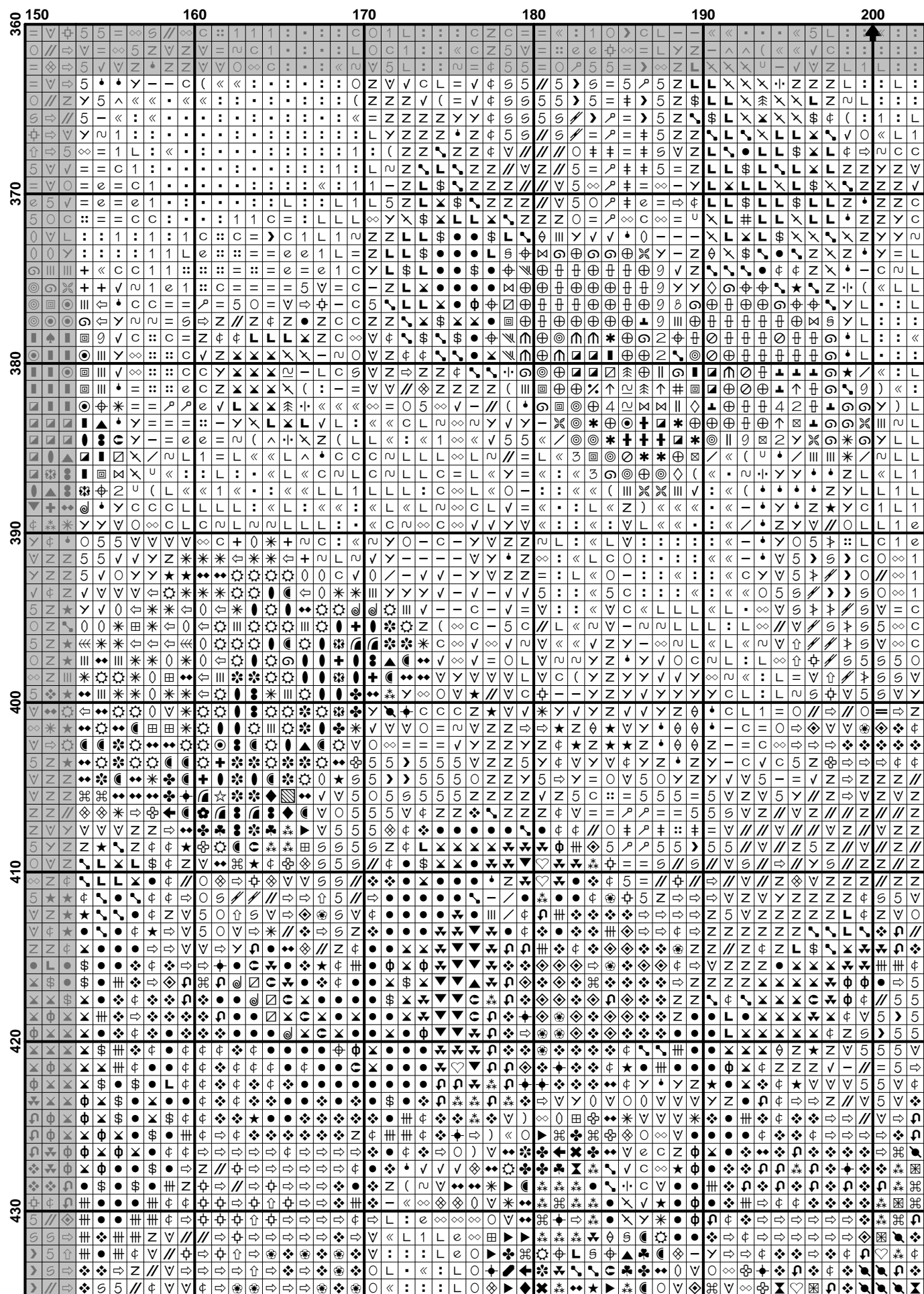


[illegible]









$$(53) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

[illegible]

(56)

(56)

