

1301 At the spring



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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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At the spring

Stitch Count	
Horizontal:	600
Vertical:	411

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:	109	42.75	75	29.25	95	37.4	65	25.59	85	33.25	58	22.75
Including Margins:	125	49	91	36	111	44	81	32	101	40	74	29
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	152	59.85	105	40.95	127	49.87	87	34.12	63	24.93	43	17.06
Including Margins:	168	66	121	47	143	56	103	41	79	31	59	24
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	61	23.94	42	16.38	58	23.01	40	15.75	56	22.16	38	15.16
Including Margins:	77	30	58	23	74	30	56	22	72	29	54	22
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	54	21.37	37	14.62	50	19.95	35	13.65	47	18.7	32	12.79
Including Margins:	70	28	53	21	66	26	51	20	63	25	48	19

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
↑	221	Shell Pink-VY DK
☆	224	Shell Pink-VY LT
Ⅲ	318	Steel Gray-LT
◇	320	Pistachio Green-MD
⌈	340	Blue Violet-MD
—	341	Blue Violet-LT
⌋	353	Peach
▲	355	Terra Cotta-DK
♣	368	Pistachio Green-LT
✓	372	Mustard-LT
⦿	407	Desert Sand-DK
●	413	Pewter Gray-DK
7	415	Pearl Gray
<	445	Lemon-LT
*	470	Avocado Green-LT
♣	471	Avocado Green-VY LT
◇	472	Avocado Green-UL LT
■	500	Blue Green-VY DK
✕	502	Blue Green
▣	503	Blue Green-MD
♣	520	Fern Green-DK
Ⅲ	523	Fern Green-LT
Ⅱ	524	Fern Green-VY LT
:	543	Beige Brown-UL VY LT
⌘	612	Drab Brown-LT
e	613	Drab Brown-VY LT
▣	632	Desert Sand-UL VY DK
5	644	Beige Gray-MD
o	645	Beaver Gray-VY DK
♣	646	Beaver Gray-DK
▲	703	Chartreuse
..	704	Chartreuse-BRT
◁	738	Tan-VY LT
⇒	739	Tan-UL VY LT
1	746	Off White
↑	747	Sky Blue-VY LT
△	754	Peach-LT
⌈	762	Pearl Gray-VY LT
>	772	Yellow Green-VY LT
♣	793	Cornflower Blue-MD
#	794	Cornflower Blue-LT

◇	822	Beige Gray-LT
♠	830	Golden Olive-DK
↓	844	Beaver Brown-UL DK
⌋	926	Gray Green-MD
⌋	927	Gray Green-LT
⦿	930	Antique Blue-DK
●	935	Avocado Green-DK
▼	937	Avocado Green-MD
(948	Peach-VY LT
♡	955	Nile Green-LT
a	964	Sea Green-LT
≡	989	Forest Green
♣	3052	Green Gray-MD
^	3078	Golden Yellow-VY LT
➔	3345	Hunter Green-DK
*	3346	Hunter Green
u	3348	Yellow Green-LT
♣	3362	Pine Green-DK
≡	3363	Pine Green-MD
≡	3364	Pine Green
♣	3685	Mauve-DK
c	3743	Antique Violet-VY LT
g	3747	Blue Violet-VY LT
✓	3752	Antique Blue-VY LT
o	3756	Baby Blue-UL VY LT
❖	3772	Desert Sand-VY DK
●	3778	Terra Cotta-LT
▣	3781	Mocha Brown-DK
◇	3782	Mocha Brown-LT
=	3790	Beige Gray-UL DK
⦿	3799	Pewter Gray-VY DK
♣	3815	Celadon Green-DK
○	3816	Celadon Green-MD
♣	3819	Moss Green-LT
∞	3823	Yellow-UL Pale
←	3842	Wedgewood-DK
♣	3847	Teal Green-DK
♣	3848	Teal Green-MD
♥	3857	Rosewood-DK
♣	3861	Cocoa-LT
u	3865	Winter White
o	Ecru	Ecru

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
o	612	Drab Brown-LT	738	Tan-VY LT
♠	831	Golden Olive-MD	3829	Old Gold-VY DK
✕	520	Fern Green-DK	3799	Pewter Gray-VY DK
o	775	Baby Blue-VY LT	3747	Blue Violet-VY LT
l	747	Sky Blue-VY LT	775	Baby Blue-VY LT

○	747	Sky Blue-VY LT	3747	Blue Violet-VY LT
∨	747	Sky Blue-VY LT	964	Sea Green-LT
⌒	762	Pearl Gray-VY LT	3756	Baby Blue-UL VY LT
▷	3747	Blue Violet-VY LT	3756	Baby Blue-UL VY LT
⦿	3743	Antique Violet-VY LT	762	Pearl Gray-VY LT
«	747	Sky Blue-VY LT	3865	Winter White
◎	564	Jade-VY LT	646	Beaver Gray-DK
›	987	Forest Green-DK	368	Pistachio Green-LT
Φ	3345	Hunter Green-DK	987	Forest Green-DK
✱	3768	Gray Green-DK	502	Blue Green
*	3362	Pine Green-DK	3816	Celadon Green-MD
■	3816	Celadon Green-MD	3799	Pewter Gray-VY DK
/	703	Chartreuse	905	Parrot Green-DK
•	747	Sky Blue-VY LT	955	Nile Green-LT
n	746	Off White	747	Sky Blue-VY LT
◻	470	Avocado Green-LT	3819	Moss Green-LT
2	471	Avocado Green-VY LT	3819	Moss Green-LT
☉	371	Mustard	646	Beaver Gray-DK
✕	523	Fern Green-LT	3861	Cocoa-LT
⊞	646	Beaver Gray-DK	223	Shell Pink-LT
⊞	3772	Desert Sand-VY DK	3790	Beige Gray-UL DK
z	612	Drab Brown-LT	371	Mustard
⊕	223	Shell Pink-LT	612	Drab Brown-LT
)	712	Cream	3743	Antique Violet-VY LT
⊞	712	Cream	778	Antique Mauve-VY LT
■	500	Blue Green-VY DK	935	Avocado Green-DK
†	3362	Pine Green-DK	844	Beaver Brown-UL DK
■	830	Golden Olive-DK	3346	Hunter Green
◆	520	Fern Green-DK	935	Avocado Green-DK
+	844	Beaver Brown-UL DK	3790	Beige Gray-UL DK
▼	646	Beaver Gray-DK	3790	Beige Gray-UL DK
►	632	Desert Sand-UL VY DK	3790	Beige Gray-UL DK
⊞	371	Mustard	977	Golden Brown-LT
§	372	Mustard-LT	407	Desert Sand-DK
~	746	Off White	963	Dusty Rose-UL VY LT
↑	407	Desert Sand-DK	738	Tan-VY LT
‡	564	Jade-VY LT	523	Fern Green-LT
?	564	Jade-VY LT	644	Beige Gray-MD
↔	644	Beige Gray-MD	822	Beige Gray-LT
6	644	Beige Gray-MD	772	Yellow Green-VY LT
◀	503	Blue Green-MD	646	Beaver Gray-DK
L	320	Pistachio Green-MD	3816	Celadon Green-MD
//	502	Blue Green	3816	Celadon Green-MD
田	564	Jade-VY LT	3816	Celadon Green-MD
☯	935	Avocado Green-DK	937	Avocado Green-MD
●	320	Pistachio Green-MD	3362	Pine Green-DK
•	932	Antique Blue-LT	3752	Antique Blue-VY LT
×	793	Cornflower Blue-MD	932	Antique Blue-LT
≡	341	Blue Violet-LT	3747	Blue Violet-VY LT
4	564	Jade-VY LT	955	Nile Green-LT
☙	3815	Celadon Green-DK	3799	Pewter Gray-VY DK
⋮	646	Beaver Gray-DK	3364	Pine Green
∨	3348	Yellow Green-LT	3364	Pine Green
□	3823	Yellow-UL Pale	543	Beige Brown-UL VY LT
+	445	Lemon-LT	472	Avocado Green-UL LT
⊞	471	Avocado Green-VY LT	612	Drab Brown-LT
§	612	Drab Brown-LT	543	Beige Brown-UL VY LT
⊞	564	Jade-VY LT	927	Gray Green-LT
∩	503	Blue Green-MD	927	Gray Green-LT

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∴	3782	Mocha Brown-LT	3348	Yellow Green-LT
★	987	Forest Green-DK	988	Forest Green-MD
◀	3345	Hunter Green-DK	988	Forest Green-MD
⊕	988	Forest Green-MD	3052	Green Gray-MD
н	472	Avocado Green-UL LT	612	Drab Brown-LT
☒	564	Jade-VY LT	3743	Antique Violet-VY LT
✚	3052	Green Gray-MD	471	Avocado Green-VY LT
⦿	3052	Green Gray-MD	3347	Yellow Green-MD
✕	470	Avocado Green-LT	472	Avocado Green-UL LT
¼	370	Mustard-MD	471	Avocado Green-VY LT
3	472	Avocado Green-UL LT	3819	Moss Green-LT
⓪	612	Drab Brown-LT	3364	Pine Green
▲	3346	Hunter Green	3363	Pine Green-MD
△	471	Avocado Green-VY LT	472	Avocado Green-UL LT
●	3345	Hunter Green-DK	3815	Celadon Green-DK
·∴	415	Pearl Gray	564	Jade-VY LT
β	754	Peach-LT	613	Drab Brown-VY LT
⚙	320	Pistachio Green-MD	3815	Celadon Green-DK
✓	340	Blue Violet-MD	341	Blue Violet-LT
⌘	318	Steel Gray-LT	415	Pearl Gray
↘	318	Steel Gray-LT	340	Blue Violet-MD
⌘	318	Steel Gray-LT	3861	Cocoa-LT
☐	415	Pearl Gray	3743	Antique Violet-VY LT
🌻	793	Cornflower Blue-MD	794	Cornflower Blue-LT
⬇	793	Cornflower Blue-MD	3848	Teal Green-MD
✚	793	Cornflower Blue-MD	3765	Peacock Blue-VY DK
▨	797	Royal Blue	3765	Peacock Blue-VY DK
✳	930	Antique Blue-DK	3809	Turquoise-VY DK
🔩	317	Pewter Gray	3765	Peacock Blue-VY DK
⦿	930	Antique Blue-DK	3799	Pewter Gray-VY DK
⦿	3809	Turquoise-VY DK	3842	Wedgewood-DK
☑	470	Avocado Green-LT	471	Avocado Green-VY LT
✕	471	Avocado Green-VY LT	3790	Beige Gray-UL DK
m	3782	Mocha Brown-LT	472	Avocado Green-UL LT
▲	470	Avocado Green-LT	3790	Beige Gray-UL DK
⊗	471	Avocado Green-VY LT	3772	Desert Sand-VY DK
⌘	632	Desert Sand-UL VY DK	938	Coffee Brown-UL DK
♻	632	Desert Sand-UL VY DK	3781	Mocha Brown-DK
☼	938	Coffee Brown-UL DK	3781	Mocha Brown-DK
●	500	Blue Green-VY DK	3799	Pewter Gray-VY DK
☼	3363	Pine Green-MD	3790	Beige Gray-UL DK
■	844	Beaver Brown-UL DK	3363	Pine Green-MD
☒	413	Pewter Gray-DK	645	Beaver Gray-VY DK
♣	844	Beaver Brown-UL DK	930	Antique Blue-DK
🔩	926	Gray Green-MD	645	Beaver Gray-VY DK
⬇	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
∴	503	Blue Green-MD	926	Gray Green-MD
⬆	471	Avocado Green-VY LT	632	Desert Sand-UL VY DK
н	613	Drab Brown-VY LT	738	Tan-VY LT
/	738	Tan-VY LT	754	Peach-LT
=	754	Peach-LT	445	Lemon-LT
☼	930	Antique Blue-DK	3848	Teal Green-MD
⦿	470	Avocado Green-LT	3346	Hunter Green

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	9	3	8	3	7	2
223	Shell Pink-LT	34	13	32	12	29	11
224	Shell Pink-VY LT	10	3	9	3	8	3
317	Pewter Gray	46	18	44	17	40	15
318	Steel Gray-LT	499	196	475	187	427	168
320	Pistachio Green-MD	981	386	934	367	840	330
340	Blue Violet-MD	172	67	164	64	147	57
341	Blue Violet-LT	799	314	761	299	684	269
353	Peach	18	7	18	7	16	6
355	Terra Cotta-DK	14	5	13	5	12	4
368	Pistachio Green-LT	563	221	536	211	483	190
370	Mustard-MD	54	21	51	20	46	18
371	Mustard	216	85	206	81	185	72
372	Mustard-LT	214	84	204	80	183	72
407	Desert Sand-DK	68	26	65	25	58	22
413	Pewter Gray-DK	647	254	616	242	555	218
415	Pearl Gray	957	376	911	358	820	322
445	Lemon-LT	101	39	96	37	87	34
470	Avocado Green-LT	261	102	248	97	224	88
471	Avocado Green-VY LT	700	275	667	262	600	236
472	Avocado Green-UL LT	436	171	415	163	373	146
500	Blue Green-VY DK	6281	2472	5982	2355	5384	2119
502	Blue Green	592	233	564	222	507	199
503	Blue Green-MD	816	321	777	305	699	275
520	Fern Green-DK	4393	1729	4184	1647	3765	1482
523	Fern Green-LT	569	224	542	213	488	192
524	Fern Green-VY LT	367	144	349	137	314	123
543	Beige Brown-UL VY LT	417	164	397	156	357	140
564	Jade-VY LT	1054	414	1004	395	903	355
612	Drab Brown-LT	679	267	647	254	582	229
613	Drab Brown-VY LT	573	225	546	214	491	193
632	Desert Sand-UL VY DK	197	77	188	74	169	66
644	Beige Gray-MD	858	337	817	321	735	289
645	Beaver Gray-VY DK	744	292	708	278	637	250
646	Beaver Gray-DK	1060	417	1009	397	908	357
703	Chartreuse	350	137	334	131	300	118
704	Chartreuse-BRT	202	79	192	75	173	68
712	Cream	103	40	98	38	88	34
738	Tan-VY LT	385	151	366	144	330	129
739	Tan-UL VY LT	176	69	168	66	151	59
746	Off White	319	125	303	119	273	107
747	Sky Blue-VY LT	3706	1459	3530	1389	3177	1250
754	Peach-LT	124	48	118	46	106	41
762	Pearl Gray-VY LT	709	279	676	266	608	239
772	Yellow Green-VY LT	292	114	278	109	250	98
775	Baby Blue-VY LT	370	145	352	138	317	124
778	Antique Mauve-VY LT	17	6	16	6	14	5
793	Cornflower Blue-MD	376	148	358	140	322	126
794	Cornflower Blue-LT	228	89	217	85	195	76
797	Royal Blue	38	14	36	14	33	12
822	Beige Gray-LT	297	116	283	111	255	100
830	Golden Olive-DK	141	55	134	52	121	47
831	Golden Olive-MD	5	1	5	1	4	1

844	Beaver Brown-UL DK	2409	948	2294	903	2065	812
905	Parrot Green-DK	106	41	101	39	91	35
926	Gray Green-MD	554	218	528	207	475	187
927	Gray Green-LT	419	164	399	157	359	141
930	Antique Blue-DK	431	169	410	161	369	145
932	Antique Blue-LT	181	71	173	68	155	61
935	Avocado Green-DK	4307	1695	4102	1614	3692	1453
937	Avocado Green-MD	372	146	354	139	319	125
938	Coffee Brown-UL DK	102	40	97	38	87	34
948	Peach-VY LT	51	20	48	18	43	16
955	Nile Green-LT	433	170	412	162	371	146
963	Dusty Rose-UL VY LT	35	13	34	13	30	11
964	Sea Green-LT	301	118	286	112	258	101
977	Golden Brown-LT	38	14	36	14	32	12
987	Forest Green-DK	581	228	553	217	498	196
988	Forest Green-MD	575	226	548	215	493	194
989	Forest Green	358	140	341	134	307	120
3052	Green Gray-MD	557	219	530	208	477	187
3078	Golden Yellow-VY LT	57	22	54	21	49	19
3345	Hunter Green-DK	1338	526	1274	501	1147	451
3346	Hunter Green	702	276	668	262	601	236
3347	Yellow Green-MD	52	20	50	19	45	17
3348	Yellow Green-LT	739	290	704	277	634	249
3362	Pine Green-DK	2746	1081	2615	1029	2353	926
3363	Pine Green-MD	1509	594	1437	565	1294	509
3364	Pine Green	974	383	928	365	835	328
3685	Mauve-DK	11	4	11	4	9	3
3743	Antique Violet-VY LT	1203	473	1146	451	1031	405
3747	Blue Violet-VY LT	1665	655	1586	624	1427	561
3752	Antique Blue-VY LT	216	85	205	80	185	72
3756	Baby Blue-UL VY LT	1005	395	958	377	862	339
3765	Peacock Blue-VY DK	128	50	122	48	110	43
3768	Gray Green-DK	174	68	165	64	149	58
3772	Desert Sand-VY DK	180	70	172	67	154	60
3778	Terra Cotta-LT	8	3	8	3	7	2
3781	Mocha Brown-DK	252	99	240	94	216	85
3782	Mocha Brown-LT	454	178	432	170	389	153
3790	Beige Gray-UL DK	611	240	582	229	523	205
3799	Pewter Gray-VY DK	5490	2161	5229	2058	4706	1852
3809	Turquoise-VY DK	50	19	48	18	43	16
3815	Celadon Green-DK	1761	693	1677	660	1510	594
3816	Celadon Green-MD	1338	526	1274	501	1147	451
3819	Moss Green-LT	103	40	99	38	89	35
3823	Yellow-UL Pale	138	54	132	51	119	46
3829	Old Gold-VY DK	5	1	5	1	4	1
3842	Wedgewood-DK	124	48	118	46	107	42
3847	Teal Green-DK	61	24	58	22	52	20
3848	Teal Green-MD	96	37	91	35	82	32
3857	Rosewood-DK	19	7	18	7	16	6
3861	Cocoa-LT	273	107	260	102	234	92
3865	Winter White	823	324	784	308	705	277
Ecru	Ecru	194	76	184	72	166	65

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	13	4	11	3	5	2
223	Shell Pink-LT	52	20	44	17	22	8
224	Shell Pink-VY LT	14	5	12	5	6	2
317	Pewter Gray	72	27	60	23	30	11
318	Steel Gray-LT	769	302	641	252	320	126
320	Pistachio Green-MD	1512	594	1260	495	630	248
340	Blue Violet-MD	265	103	221	86	110	43
341	Blue Violet-LT	1231	484	1026	404	513	202
353	Peach	29	11	24	9	12	5
355	Terra Cotta-DK	22	7	18	6	9	3
368	Pistachio Green-LT	869	342	725	285	362	143
370	Mustard-MD	83	32	69	27	35	14
371	Mustard	333	130	278	108	139	54
372	Mustard-LT	329	130	275	108	137	54
407	Desert Sand-DK	104	40	87	33	44	17
413	Pewter Gray-DK	999	392	833	327	416	164
415	Pearl Gray	1476	580	1230	483	615	242
445	Lemon-LT	157	61	131	51	65	26
470	Avocado Green-LT	403	158	336	132	168	66
471	Avocado Green-VY LT	1080	425	900	354	450	177
472	Avocado Green-UL LT	671	263	560	219	280	110
500	Blue Green-VY DK	9691	3814	8076	3179	4038	1589
502	Blue Green	913	358	761	299	380	149
503	Blue Green-MD	1258	495	1049	413	524	206
520	Fern Green-DK	6777	2668	5648	2223	2824	1112
523	Fern Green-LT	878	346	732	288	366	144
524	Fern Green-VY LT	565	221	471	185	236	92
543	Beige Brown-UL VY LT	643	252	536	210	268	105
564	Jade-VY LT	1625	639	1355	533	677	266
612	Drab Brown-LT	1048	412	873	344	437	172
613	Drab Brown-VY LT	884	347	737	290	368	145
632	Desert Sand-UL VY DK	304	119	254	99	127	50
644	Beige Gray-MD	1323	520	1103	434	551	217
645	Beaver Gray-VY DK	1147	450	956	375	478	188
646	Beaver Gray-DK	1634	643	1362	536	681	268
703	Chartreuse	540	212	450	177	225	89
704	Chartreuse-BRT	311	122	260	102	130	51
712	Cream	158	61	132	51	66	26
738	Tan-VY LT	594	232	495	194	248	97
739	Tan-UL VY LT	272	106	227	89	113	44
746	Off White	491	193	410	161	205	80
747	Sky Blue-VY LT	5719	2250	4766	1875	2383	938
754	Peach-LT	191	74	159	62	80	31
762	Pearl Gray-VY LT	1094	430	912	359	456	179
772	Yellow Green-VY LT	450	176	375	147	188	74
775	Baby Blue-VY LT	571	223	476	186	238	93
778	Antique Mauve-VY LT	25	9	21	8	11	4
793	Cornflower Blue-MD	580	227	483	189	242	95
794	Cornflower Blue-LT	351	137	293	114	146	57
797	Royal Blue	59	22	50	18	25	9
822	Beige Gray-LT	459	180	383	150	191	75
830	Golden Olive-DK	218	85	182	71	91	35
831	Golden Olive-MD	7	2	6	2	3	1

844	Beaver Brown-UL DK	3717	1462	3098	1218	1549	609
905	Parrot Green-DK	164	63	137	53	68	26
926	Gray Green-MD	855	337	713	281	356	140
927	Gray Green-LT	646	254	539	212	269	106
930	Antique Blue-DK	664	261	554	218	277	109
932	Antique Blue-LT	279	110	233	92	116	46
935	Avocado Green-DK	6646	2615	5538	2180	2769	1090
937	Avocado Green-MD	574	225	479	188	239	94
938	Coffee Brown-UL DK	157	61	131	51	65	26
948	Peach-VY LT	77	29	65	24	32	12
955	Nile Green-LT	668	263	557	219	278	110
963	Dusty Rose-UL VY LT	54	20	45	17	23	8
964	Sea Green-LT	464	182	387	152	194	76
977	Golden Brown-LT	58	22	48	18	24	9
987	Forest Green-DK	896	353	747	294	374	147
988	Forest Green-MD	887	349	740	291	370	146
989	Forest Green	553	216	461	180	230	90
3052	Green Gray-MD	859	337	716	281	358	140
3078	Golden Yellow-VY LT	88	34	74	29	37	14
3345	Hunter Green-DK	2065	812	1721	677	860	338
3346	Hunter Green	1082	425	902	354	451	177
3347	Yellow Green-MD	81	31	68	26	34	13
3348	Yellow Green-LT	1141	448	951	374	476	187
3362	Pine Green-DK	4235	1667	3530	1389	1765	695
3363	Pine Green-MD	2329	916	1941	764	971	382
3364	Pine Green	1503	590	1253	492	626	246
3685	Mauve-DK	16	5	14	5	7	2
3743	Antique Violet-VY LT	1856	729	1547	608	773	304
3747	Blue Violet-VY LT	2569	1010	2141	842	1070	421
3752	Antique Blue-VY LT	333	130	278	108	139	54
3756	Baby Blue-UL VY LT	1552	610	1293	509	647	254
3765	Peacock Blue-VY DK	198	77	165	65	83	32
3768	Gray Green-DK	268	104	224	87	112	44
3772	Desert Sand-VY DK	277	108	231	90	116	45
3778	Terra Cotta-LT	13	4	11	3	5	2
3781	Mocha Brown-DK	389	153	324	128	162	64
3782	Mocha Brown-LT	700	275	584	230	292	115
3790	Beige Gray-UL DK	941	369	785	308	392	154
3799	Pewter Gray-VY DK	8471	3334	7059	2778	3530	1389
3809	Turquoise-VY DK	77	29	65	24	32	12
3815	Celadon Green-DK	2718	1069	2265	891	1133	446
3816	Celadon Green-MD	2065	812	1721	677	860	338
3819	Moss Green-LT	160	63	134	53	67	26
3823	Yellow-UL Pale	214	83	179	69	89	35
3829	Old Gold-VY DK	7	2	6	2	3	1
3842	Wedgewood-DK	193	76	161	63	80	32
3847	Teal Green-DK	94	36	78	30	39	15
3848	Teal Green-MD	148	58	123	48	62	24
3857	Rosewood-DK	29	11	24	9	12	5
3861	Cocoa-LT	421	166	351	138	176	69
3865	Winter White	1269	499	1058	416	529	208
Ecru	Ecru	299	117	249	98	125	49

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	5	1	5	1	5	1
223	Shell Pink-LT	21	8	20	8	19	7
224	Shell Pink-VY LT	6	2	6	2	5	2
317	Pewter Gray	29	11	28	10	27	10
318	Steel Gray-LT	307	121	296	116	285	112
320	Pistachio Green-MD	605	238	582	228	560	220
340	Blue Violet-MD	106	41	102	39	98	38
341	Blue Violet-LT	492	194	474	186	456	179
353	Peach	12	4	11	4	11	4
355	Terra Cotta-DK	9	3	8	3	8	3
368	Pistachio Green-LT	348	137	334	132	322	127
370	Mustard-MD	33	13	32	12	31	12
371	Mustard	133	52	128	50	123	48
372	Mustard-LT	132	52	127	50	122	48
407	Desert Sand-DK	42	16	40	15	39	15
413	Pewter Gray-DK	400	157	384	151	370	145
415	Pearl Gray	590	232	568	223	547	215
445	Lemon-LT	63	24	60	24	58	23
470	Avocado Green-LT	161	63	155	61	149	59
471	Avocado Green-VY LT	432	170	415	163	400	157
472	Avocado Green-UL LT	269	105	258	101	249	97
500	Blue Green-VY DK	3876	1526	3727	1467	3589	1413
502	Blue Green	365	143	351	138	338	133
503	Blue Green-MD	503	198	484	190	466	183
520	Fern Green-DK	2711	1067	2607	1026	2510	988
523	Fern Green-LT	351	138	338	133	325	128
524	Fern Green-VY LT	226	89	217	85	209	82
543	Beige Brown-UL VY LT	257	101	247	97	238	93
564	Jade-VY LT	650	256	625	246	602	237
612	Drab Brown-LT	419	165	403	159	388	153
613	Drab Brown-VY LT	354	139	340	134	327	129
632	Desert Sand-UL VY DK	122	48	117	46	113	44
644	Beige Gray-MD	529	208	509	200	490	193
645	Beaver Gray-VY DK	459	180	441	173	425	167
646	Beaver Gray-DK	654	257	629	247	605	238
703	Chartreuse	216	85	208	82	200	79
704	Chartreuse-BRT	125	49	120	47	115	45
712	Cream	63	24	61	24	59	23
738	Tan-VY LT	238	93	228	89	220	86
739	Tan-UL VY LT	109	42	105	41	101	39
746	Off White	197	77	189	74	182	71
747	Sky Blue-VY LT	2287	900	2199	865	2118	833
754	Peach-LT	76	30	73	28	71	27
762	Pearl Gray-VY LT	438	172	421	165	405	159
772	Yellow Green-VY LT	180	71	173	68	167	65
775	Baby Blue-VY LT	228	89	219	86	211	83
778	Antique Mauve-VY LT	10	4	10	3	9	3
793	Cornflower Blue-MD	232	91	223	87	215	84
794	Cornflower Blue-LT	140	55	135	53	130	51
797	Royal Blue	24	9	23	8	22	8
822	Beige Gray-LT	184	72	177	69	170	67
830	Golden Olive-DK	87	34	84	33	81	31
831	Golden Olive-MD	3	1	3	1	3	1

844	Beaver Brown-UL DK	1487	585	1430	562	1377	541
905	Parrot Green-DK	66	25	63	24	61	23
926	Gray Green-MD	342	135	329	129	317	125
927	Gray Green-LT	258	102	249	98	239	94
930	Antique Blue-DK	266	104	255	100	246	97
932	Antique Blue-LT	112	44	107	42	103	41
935	Avocado Green-DK	2658	1046	2556	1006	2461	969
937	Avocado Green-MD	230	90	221	87	213	83
938	Coffee Brown-UL DK	63	24	60	24	58	23
948	Peach-VY LT	31	12	30	11	29	11
955	Nile Green-LT	267	105	257	101	247	97
963	Dusty Rose-UL VY LT	22	8	21	8	20	7
964	Sea Green-LT	186	73	179	70	172	67
977	Golden Brown-LT	23	9	22	8	21	8
987	Forest Green-DK	359	141	345	136	332	131
988	Forest Green-MD	355	140	341	134	329	129
989	Forest Green	221	86	213	83	205	80
3052	Green Gray-MD	343	135	330	129	318	125
3078	Golden Yellow-VY LT	35	14	34	13	33	13
3345	Hunter Green-DK	826	325	794	312	765	301
3346	Hunter Green	433	170	416	163	401	157
3347	Yellow Green-MD	32	12	31	12	30	11
3348	Yellow Green-LT	456	179	439	172	423	166
3362	Pine Green-DK	1694	667	1629	641	1569	617
3363	Pine Green-MD	932	366	896	352	863	339
3364	Pine Green	601	236	578	227	557	219
3685	Mauve-DK	6	2	6	2	6	2
3743	Antique Violet-VY LT	742	292	714	280	687	270
3747	Blue Violet-VY LT	1027	404	988	388	951	374
3752	Antique Blue-VY LT	133	52	128	50	123	48
3756	Baby Blue-UL VY LT	621	244	597	235	575	226
3765	Peacock Blue-VY DK	79	31	76	30	73	29
3768	Gray Green-DK	107	42	103	40	99	39
3772	Desert Sand-VY DK	111	43	107	42	103	40
3778	Terra Cotta-LT	5	1	5	1	5	1
3781	Mocha Brown-DK	156	61	150	59	144	57
3782	Mocha Brown-LT	280	110	269	106	259	102
3790	Beige Gray-UL DK	377	148	362	142	349	137
3799	Pewter Gray-VY DK	3388	1333	3258	1282	3137	1235
3809	Turquoise-VY DK	31	12	30	11	29	11
3815	Celadon Green-DK	1087	428	1045	411	1007	396
3816	Celadon Green-MD	826	325	794	312	765	301
3819	Moss Green-LT	64	25	62	24	59	23
3823	Yellow-UL Pale	86	33	82	32	79	31
3829	Old Gold-VY DK	3	1	3	1	3	1
3842	Wedgewood-DK	77	30	74	29	71	28
3847	Teal Green-DK	37	14	36	14	35	13
3848	Teal Green-MD	59	23	57	22	55	21
3857	Rosewood-DK	12	4	11	4	11	4
3861	Cocoa-LT	168	66	162	64	156	61
3865	Winter White	508	199	488	192	470	185
Ecru	Ecru	120	47	115	45	111	43

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	5	1	4	1	4	1
223	Shell Pink-LT	19	7	17	7	16	6
224	Shell Pink-VY LT	5	2	5	2	5	2
317	Pewter Gray	26	10	24	9	23	8
318	Steel Gray-LT	275	108	256	101	240	95
320	Pistachio Green-MD	540	212	504	198	473	186
340	Blue Violet-MD	95	37	88	34	83	32
341	Blue Violet-LT	440	173	410	161	385	151
353	Peach	10	4	10	4	9	3
355	Terra Cotta-DK	8	3	7	2	7	2
368	Pistachio Green-LT	311	122	290	114	272	107
370	Mustard-MD	30	12	28	11	26	10
371	Mustard	119	46	111	43	104	41
372	Mustard-LT	118	46	110	43	103	41
407	Desert Sand-DK	37	14	35	13	33	12
413	Pewter Gray-DK	357	140	333	131	312	123
415	Pearl Gray	527	207	492	193	461	181
445	Lemon-LT	56	22	52	20	49	19
470	Avocado Green-LT	144	57	134	53	126	50
471	Avocado Green-VY LT	386	152	360	142	338	133
472	Avocado Green-UL LT	240	94	224	88	210	82
500	Blue Green-VY DK	3461	1362	3230	1271	3029	1192
502	Blue Green	326	128	304	119	285	112
503	Blue Green-MD	449	177	419	165	393	155
520	Fern Green-DK	2420	953	2259	889	2118	834
523	Fern Green-LT	314	123	293	115	275	108
524	Fern Green-VY LT	202	79	188	74	177	69
543	Beige Brown-UL VY LT	230	90	214	84	201	79
564	Jade-VY LT	581	228	542	213	508	200
612	Drab Brown-LT	374	147	349	137	327	129
613	Drab Brown-VY LT	316	124	295	116	276	109
632	Desert Sand-UL VY DK	109	42	101	40	95	37
644	Beige Gray-MD	473	186	441	173	413	163
645	Beaver Gray-VY DK	410	161	382	150	358	141
646	Beaver Gray-DK	584	230	545	214	511	201
703	Chartreuse	193	76	180	71	169	66
704	Chartreuse-BRT	111	44	104	41	97	38
712	Cream	57	22	53	20	50	19
738	Tan-VY LT	212	83	198	77	186	73
739	Tan-UL VY LT	97	38	91	35	85	33
746	Off White	176	69	164	64	154	60
747	Sky Blue-VY LT	2042	804	1906	750	1787	703
754	Peach-LT	68	26	64	25	60	23
762	Pearl Gray-VY LT	391	154	365	143	342	134
772	Yellow Green-VY LT	161	63	150	59	141	55
775	Baby Blue-VY LT	204	80	190	74	178	70
778	Antique Mauve-VY LT	9	3	8	3	8	3
793	Cornflower Blue-MD	207	81	193	76	181	71
794	Cornflower Blue-LT	125	49	117	46	110	43
797	Royal Blue	21	8	20	7	19	7
822	Beige Gray-LT	164	64	153	60	143	56
830	Golden Olive-DK	78	30	73	28	68	26
831	Golden Olive-MD	3	1	2	1	2	1

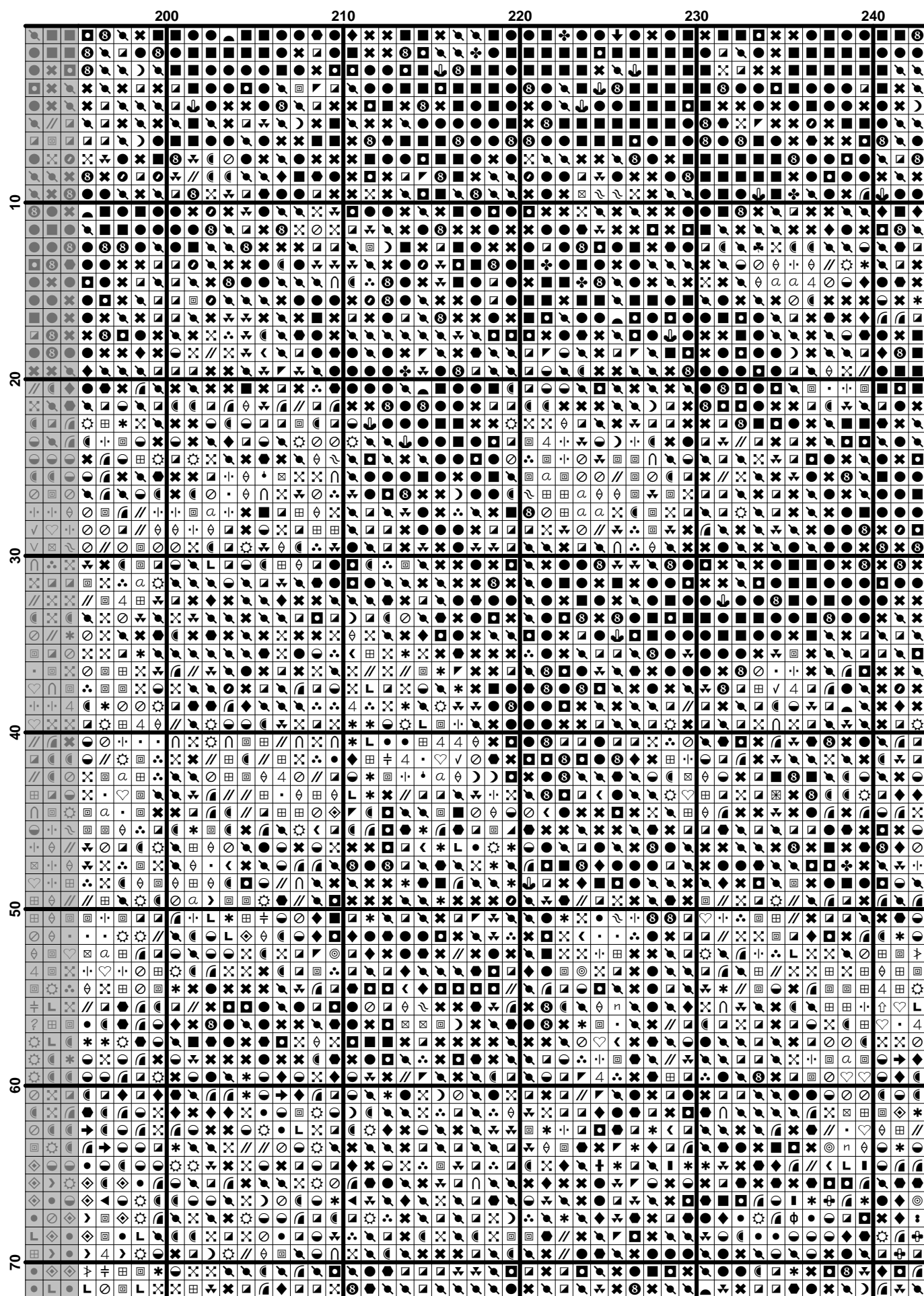
844	Beaver Brown-UL DK	1328	522	1239	487	1162	457
905	Parrot Green-DK	59	23	55	21	51	20
926	Gray Green-MD	305	120	285	112	267	105
927	Gray Green-LT	231	91	215	85	202	79
930	Antique Blue-DK	237	93	221	87	208	82
932	Antique Blue-LT	100	39	93	37	87	34
935	Avocado Green-DK	2373	934	2215	872	2077	817
937	Avocado Green-MD	205	80	191	75	179	70
938	Coffee Brown-UL DK	56	22	52	20	49	19
948	Peach-VY LT	28	10	26	10	24	9
955	Nile Green-LT	239	94	223	88	209	82
963	Dusty Rose-UL VY LT	19	7	18	7	17	6
964	Sea Green-LT	166	65	155	61	145	57
977	Golden Brown-LT	21	8	19	7	18	7
987	Forest Green-DK	320	126	299	118	280	110
988	Forest Green-MD	317	125	296	116	277	109
989	Forest Green	197	77	184	72	173	68
3052	Green Gray-MD	307	120	286	112	268	105
3078	Golden Yellow-VY LT	32	12	29	11	28	11
3345	Hunter Green-DK	737	290	688	271	645	254
3346	Hunter Green	386	152	361	142	338	133
3347	Yellow Green-MD	29	11	27	10	25	10
3348	Yellow Green-LT	408	160	380	149	357	140
3362	Pine Green-DK	1513	595	1412	556	1324	521
3363	Pine Green-MD	832	327	776	305	728	286
3364	Pine Green	537	211	501	197	470	185
3685	Mauve-DK	6	2	5	2	5	2
3743	Antique Violet-VY LT	663	260	619	243	580	228
3747	Blue Violet-VY LT	917	361	856	337	803	316
3752	Antique Blue-VY LT	119	46	111	43	104	41
3756	Baby Blue-UL VY LT	554	218	517	203	485	191
3765	Peacock Blue-VY DK	71	28	66	26	62	24
3768	Gray Green-DK	96	37	89	35	84	33
3772	Desert Sand-VY DK	99	39	92	36	87	34
3778	Terra Cotta-LT	5	1	4	1	4	1
3781	Mocha Brown-DK	139	55	130	51	122	48
3782	Mocha Brown-LT	250	98	233	92	219	86
3790	Beige Gray-UL DK	336	132	314	123	294	115
3799	Pewter Gray-VY DK	3025	1191	2824	1111	2647	1042
3809	Turquoise-VY DK	28	10	26	10	24	9
3815	Celadon Green-DK	971	382	906	356	849	334
3816	Celadon Green-MD	737	290	688	271	645	254
3819	Moss Green-LT	57	23	53	21	50	20
3823	Yellow-UL Pale	77	30	71	28	67	26
3829	Old Gold-VY DK	3	1	2	1	2	1
3842	Wedgewood-DK	69	27	64	25	60	24
3847	Teal Green-DK	33	13	31	12	29	11
3848	Teal Green-MD	53	21	49	19	46	18
3857	Rosewood-DK	10	4	10	4	9	3
3861	Cocoa-LT	150	59	140	55	132	52
3865	Winter White	453	178	423	166	397	156
Ecru	Ecru	107	42	100	39	93	37

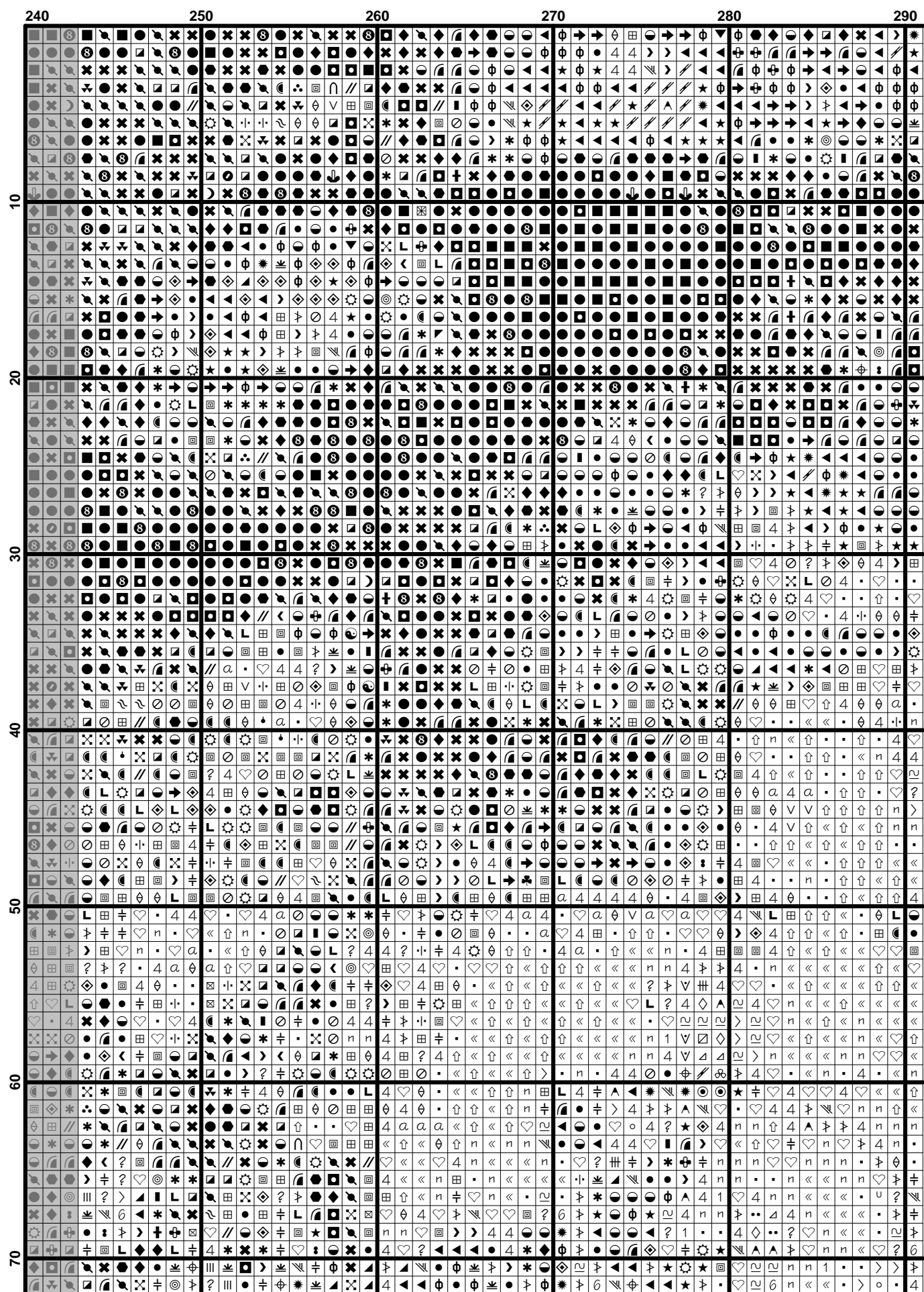
[illegible]

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

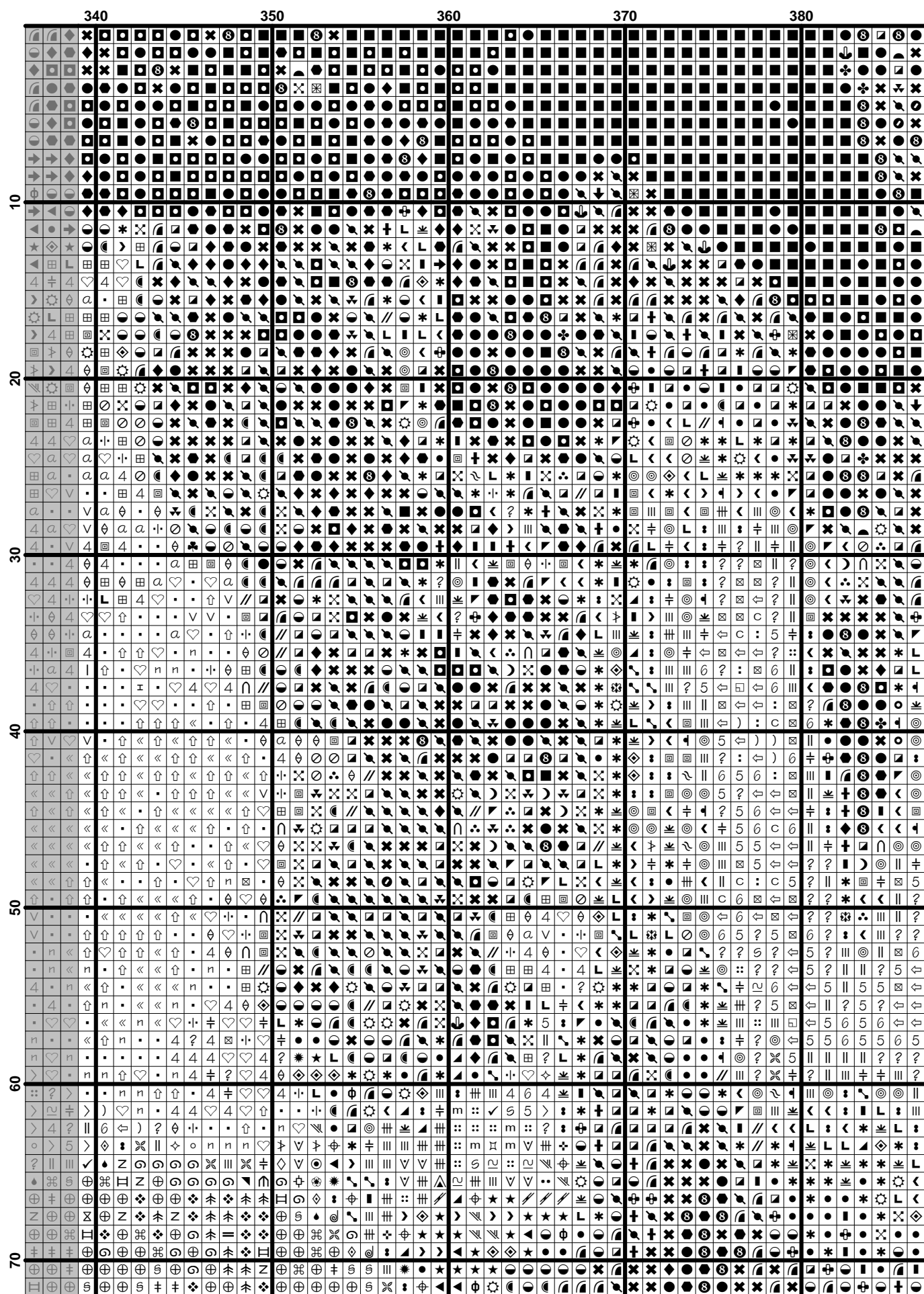
$$(16) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (17)$$

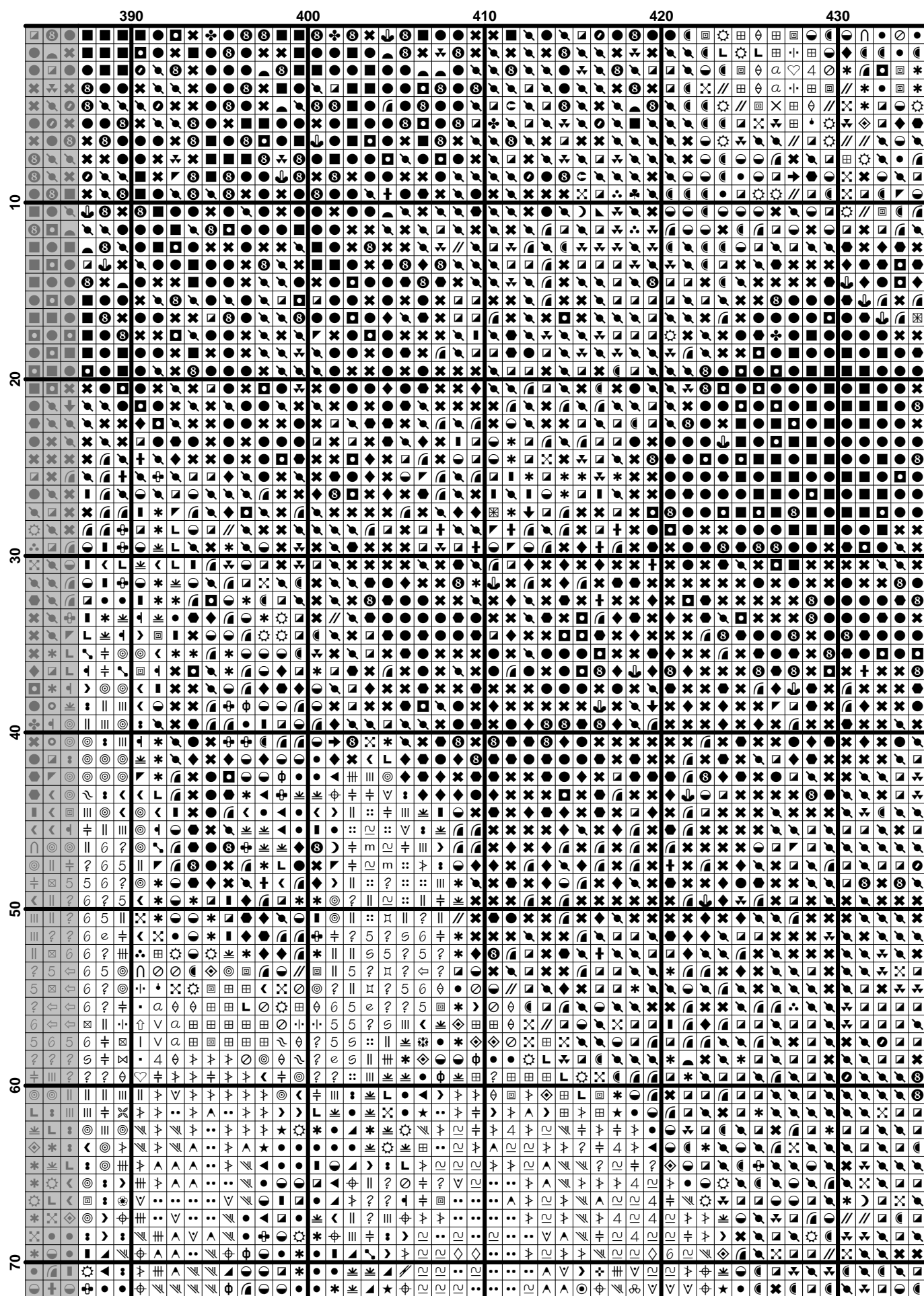
$$(17) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

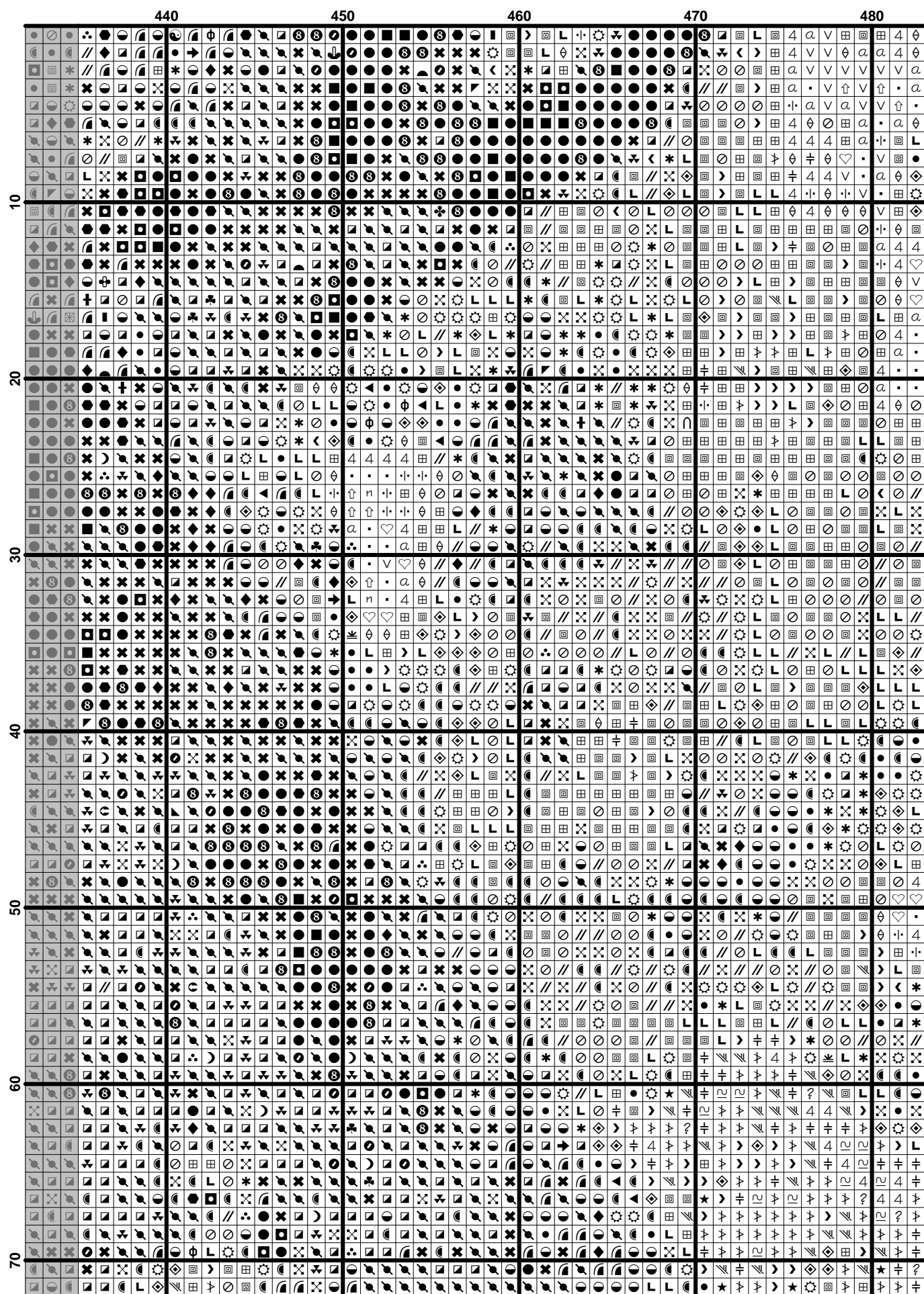




	290	300	310	320	330
10
20
30
40
50
60
70







	480	490	500	510	520	530
10
20
30
40
50
60
70

	530							540							550							560							570											
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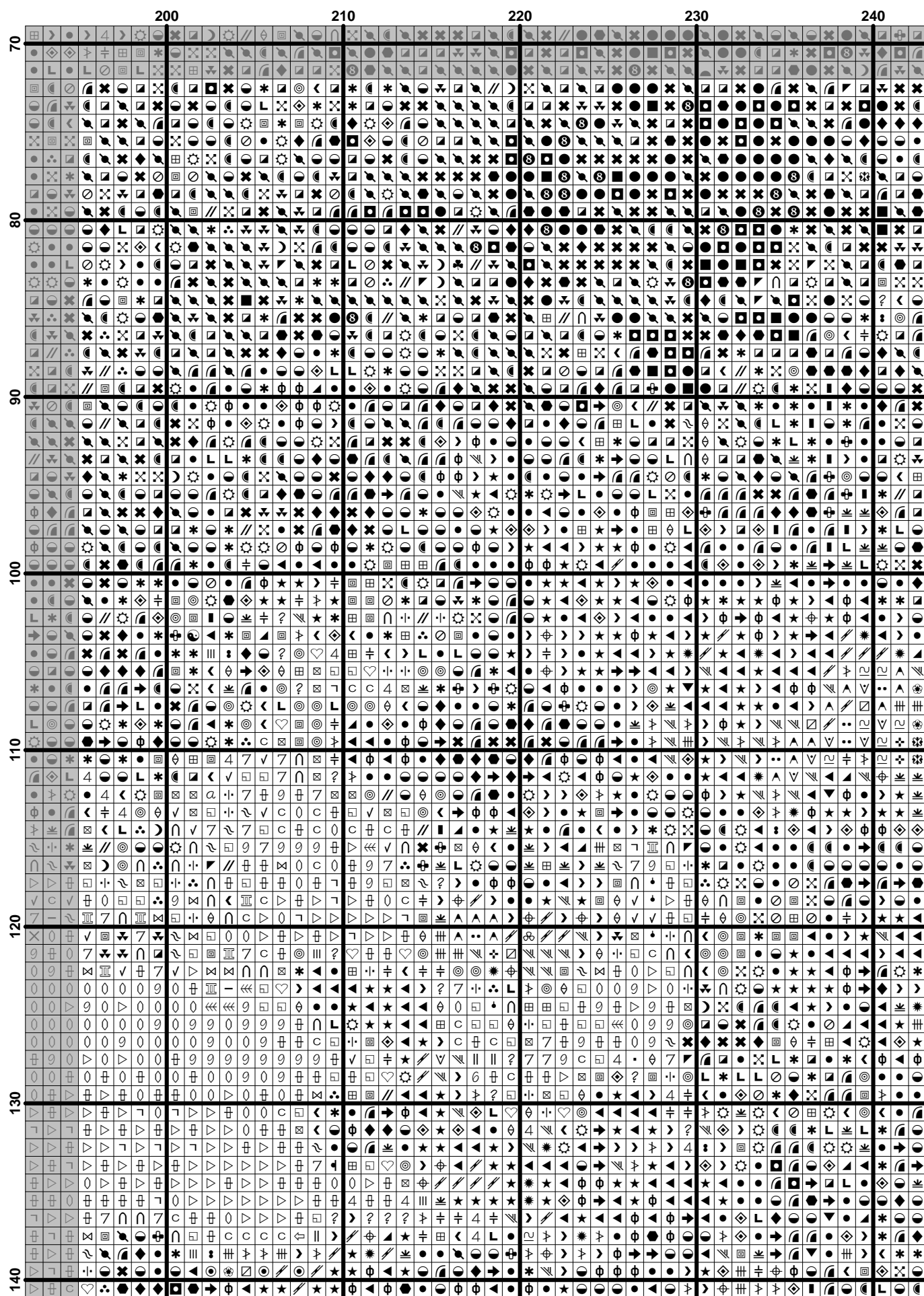
(26)

	10										20										30										40										50																		
70	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9									
80	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
90	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
100	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9		
110	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9			
120	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9				
130	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9					
140	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9						

	50	60	70	80	90
70					
80					
90					
100					
110					
120					
130					
140					

$$(29) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (30)$$

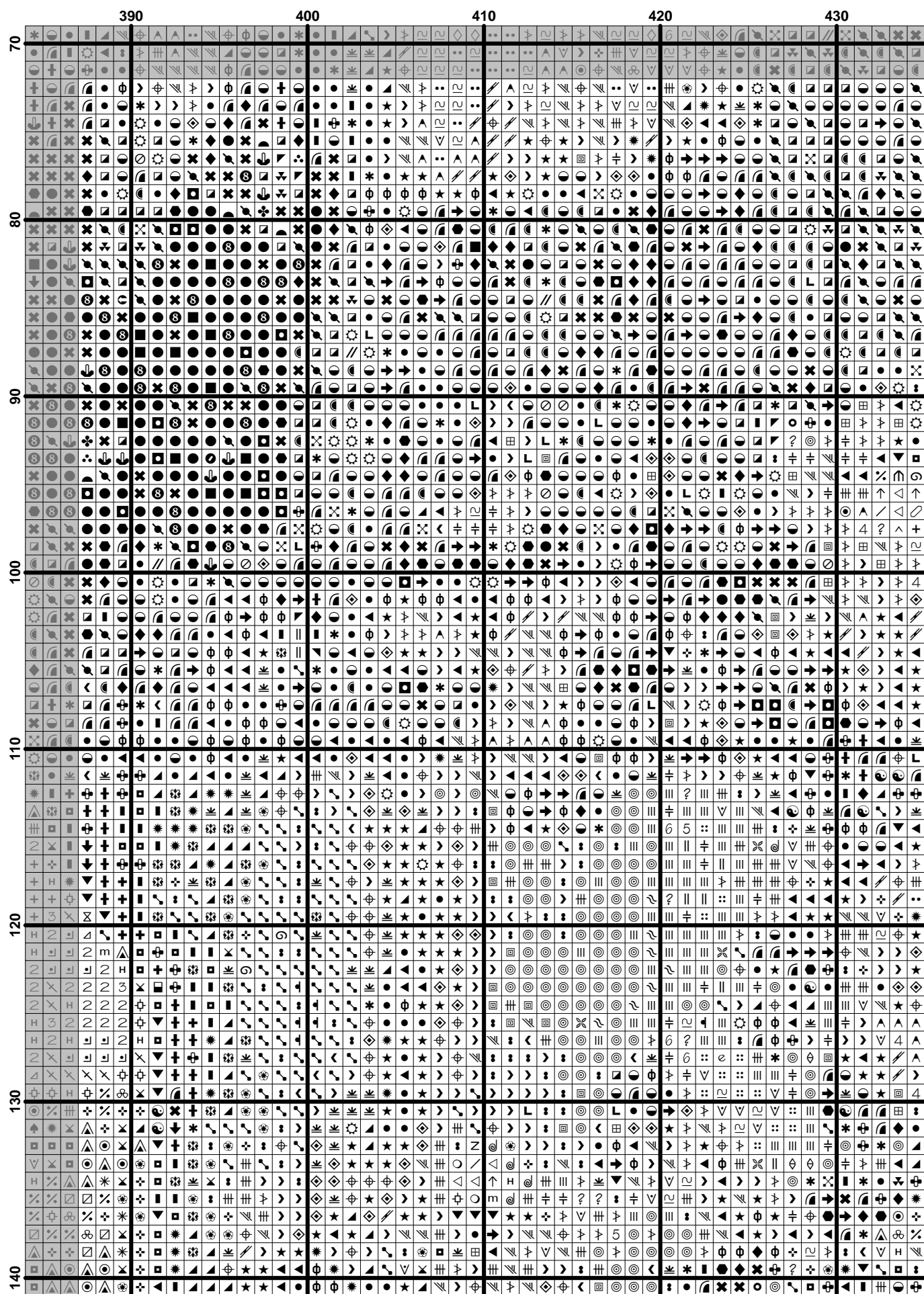
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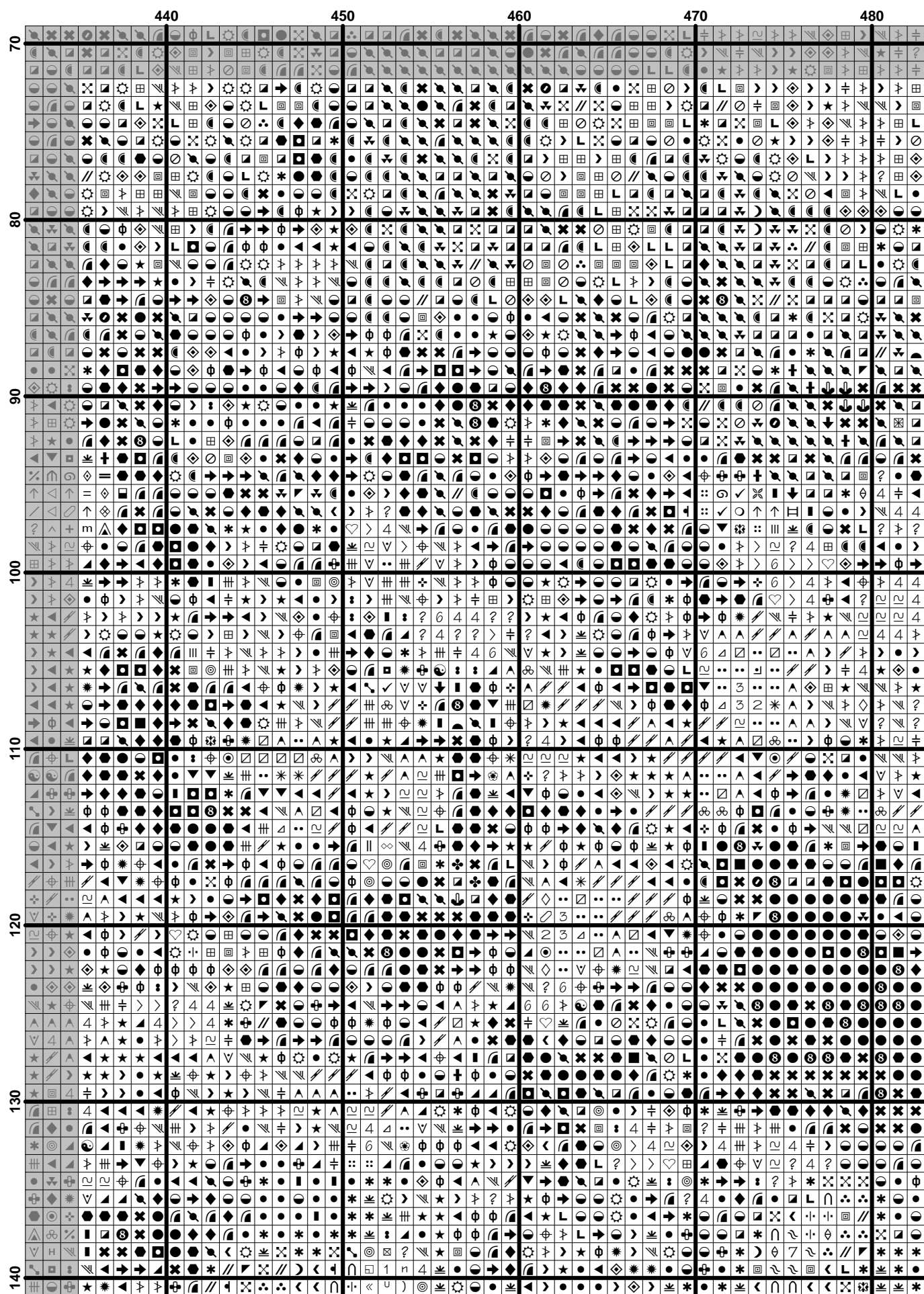


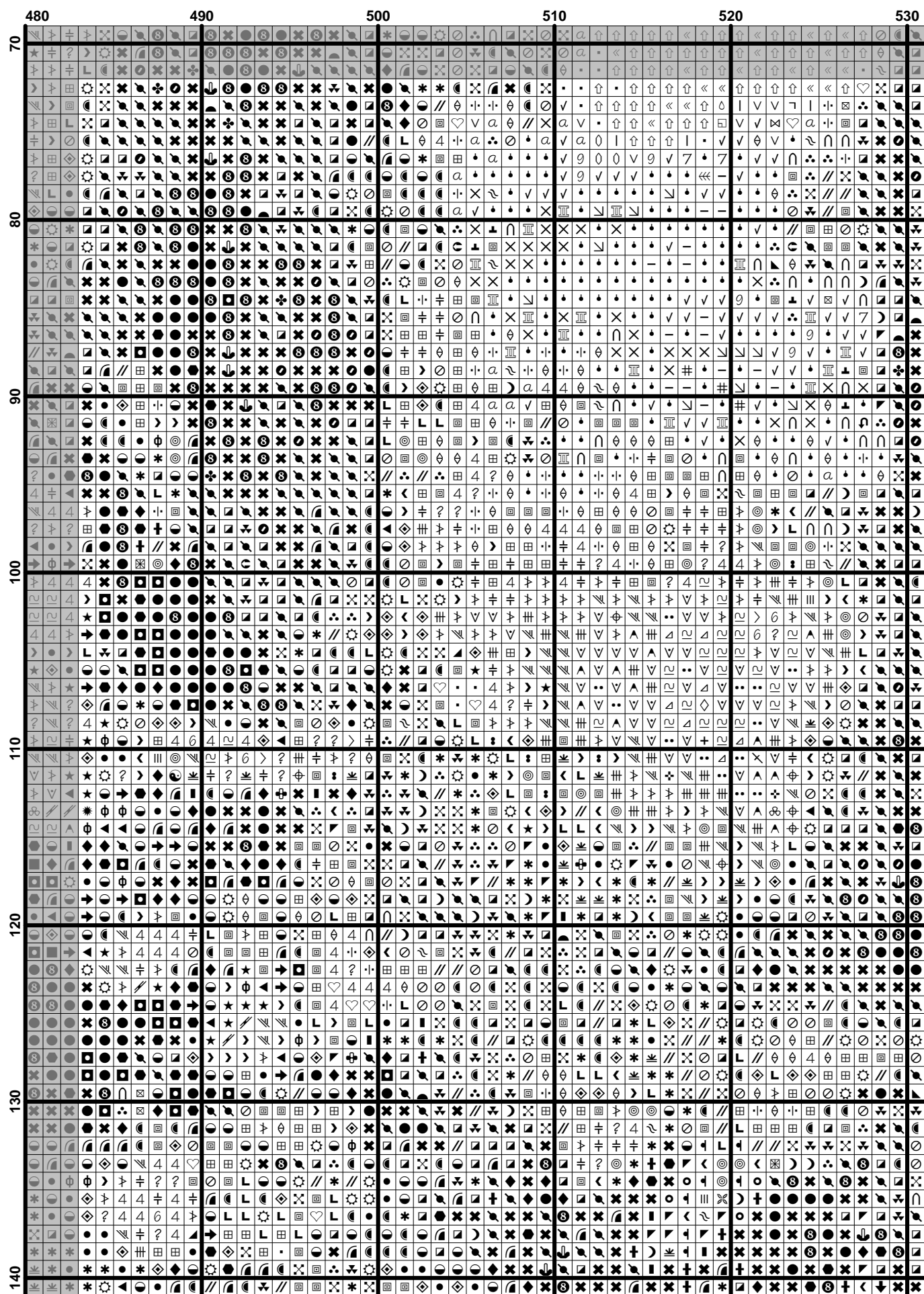
	240	250	260	270	280	290
70	⬆	⬆	⬆	⬆	⬆	⬆
80	⬆	⬆	⬆	⬆	⬆	⬆
90	⬆	⬆	⬆	⬆	⬆	⬆
100	⬆	⬆	⬆	⬆	⬆	⬆
110	⬆	⬆	⬆	⬆	⬆	⬆
120	⬆	⬆	⬆	⬆	⬆	⬆
130	⬆	⬆	⬆	⬆	⬆	⬆
140	⬆	⬆	⬆	⬆	⬆	⬆

	290	300	310	320	330
70					
80					
90					
100					
110					
120					
130					
140					

	340	350	360	370	380
70					
80					
90					
100					
110					
120					
130					
140					







	530	540	550	560	570
70					
80					
90					
100					
110					
120					
130					
140					

(39)

[illegible]

[illegible]

[illegible]

$$(43) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	200	210	220	230	240
140					
150					
160					
170					
180					
190					
200					
210					

	240	250	260	270	280	290
140						
150						
160						
170						
180						
190						
200						
210						

	290	300	310	320	330
140
150
160
170
180
190
200
210

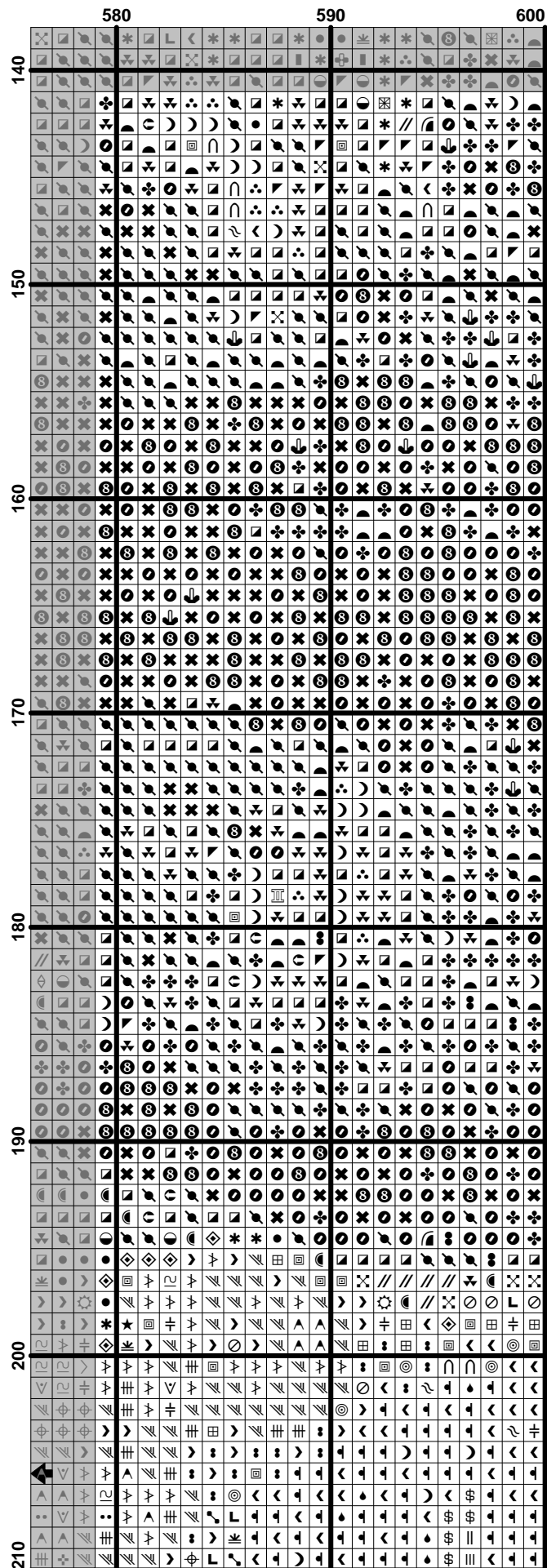
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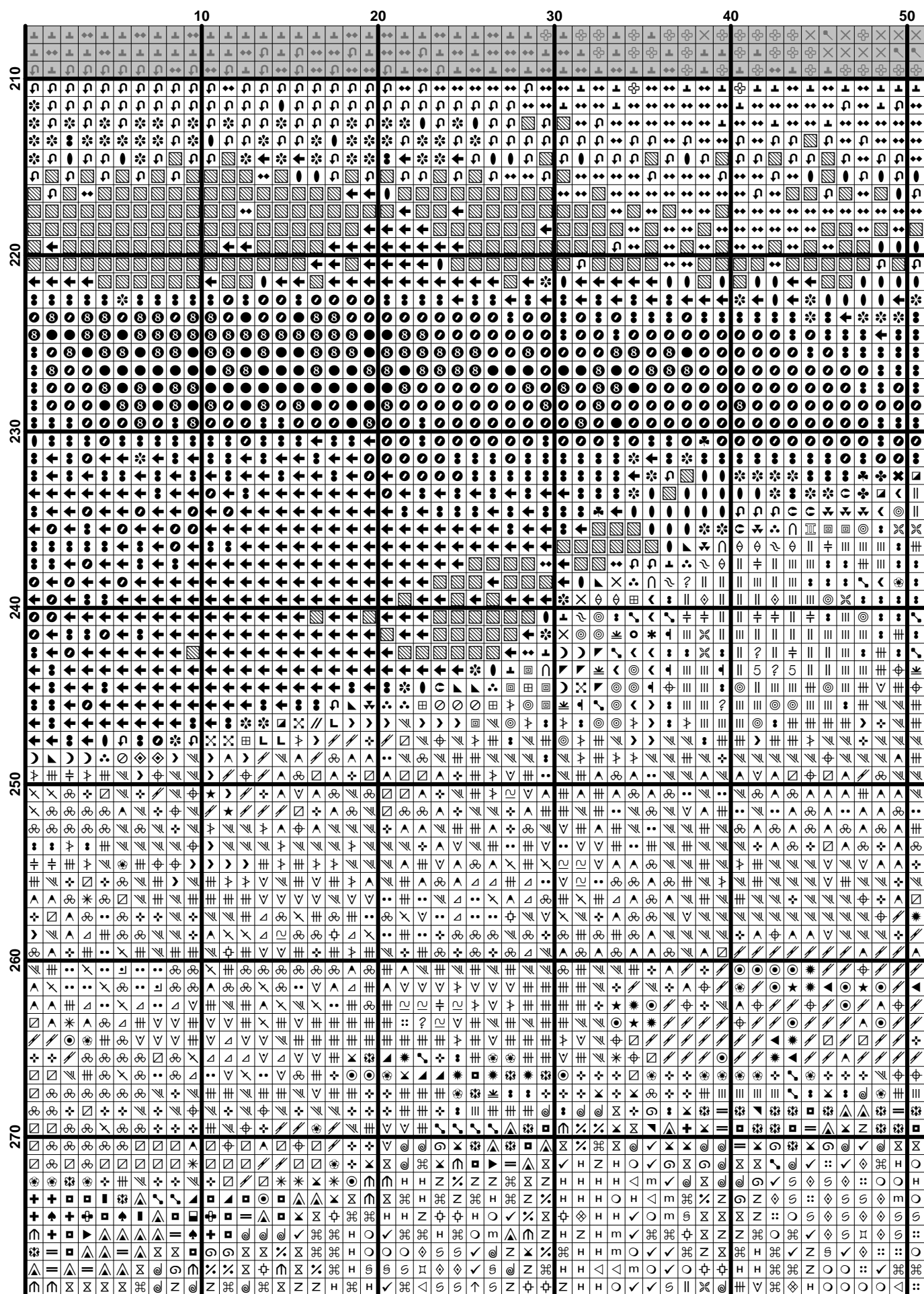
	390	400	410	420	430
140	△	△	△	△	△
150	△	△	△	△	△
160	△	△	△	△	△
170	△	△	△	△	△
180	△	△	△	△	△
190	△	△	△	△	△
200	△	△	△	△	△
210	△	△	△	△	△

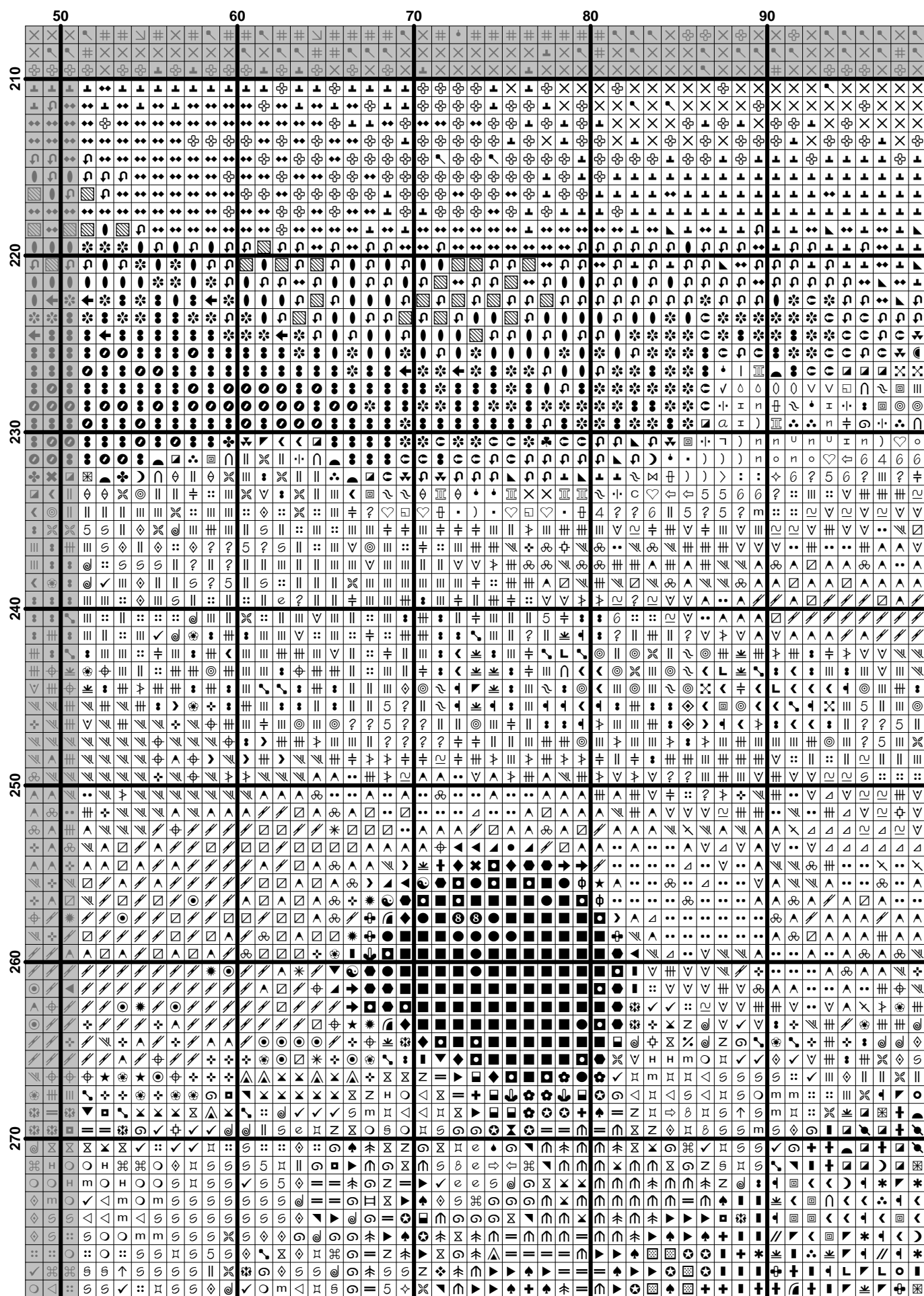
	440	450	460	470	480
140	▽	▽	▽	▽	▽
150	▽	▽	▽	▽	▽
160	▽	▽	▽	▽	▽
170	▽	▽	▽	▽	▽
180	▽	▽	▽	▽	▽
190	▽	▽	▽	▽	▽
200	▽	▽	▽	▽	▽
210	▽	▽	▽	▽	▽

	480	490	500	510	520	530
140	***	***	***	***	***	***
150	***	***	***	***	***	***
160	***	***	***	***	***	***
170	***	***	***	***	***	***
180	***	***	***	***	***	***
190	***	***	***	***	***	***
200	***	***	***	***	***	***
210	***	***	***	***	***	***

	530	540	550	560	570
140
150
160
170
180
190
200
210

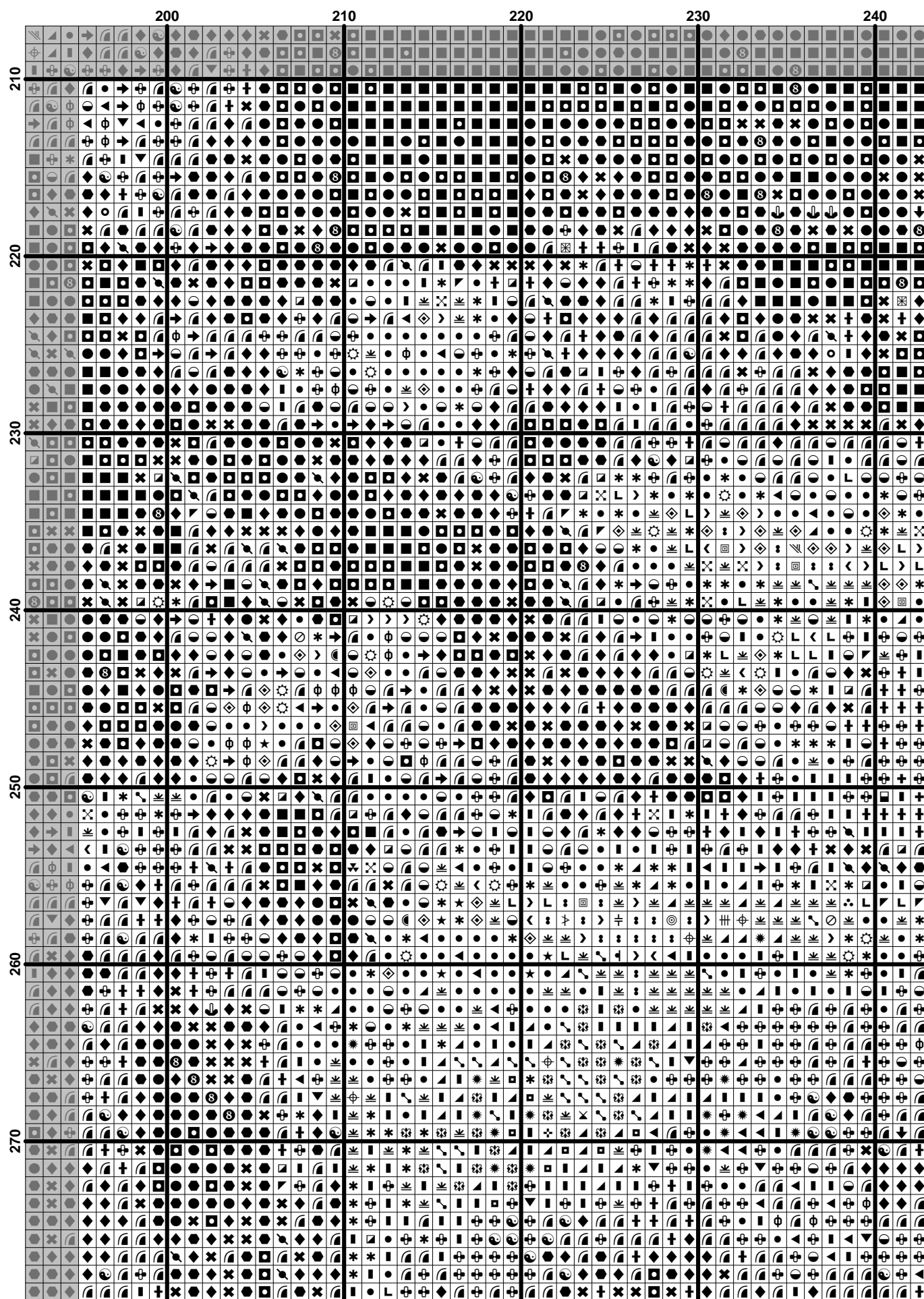


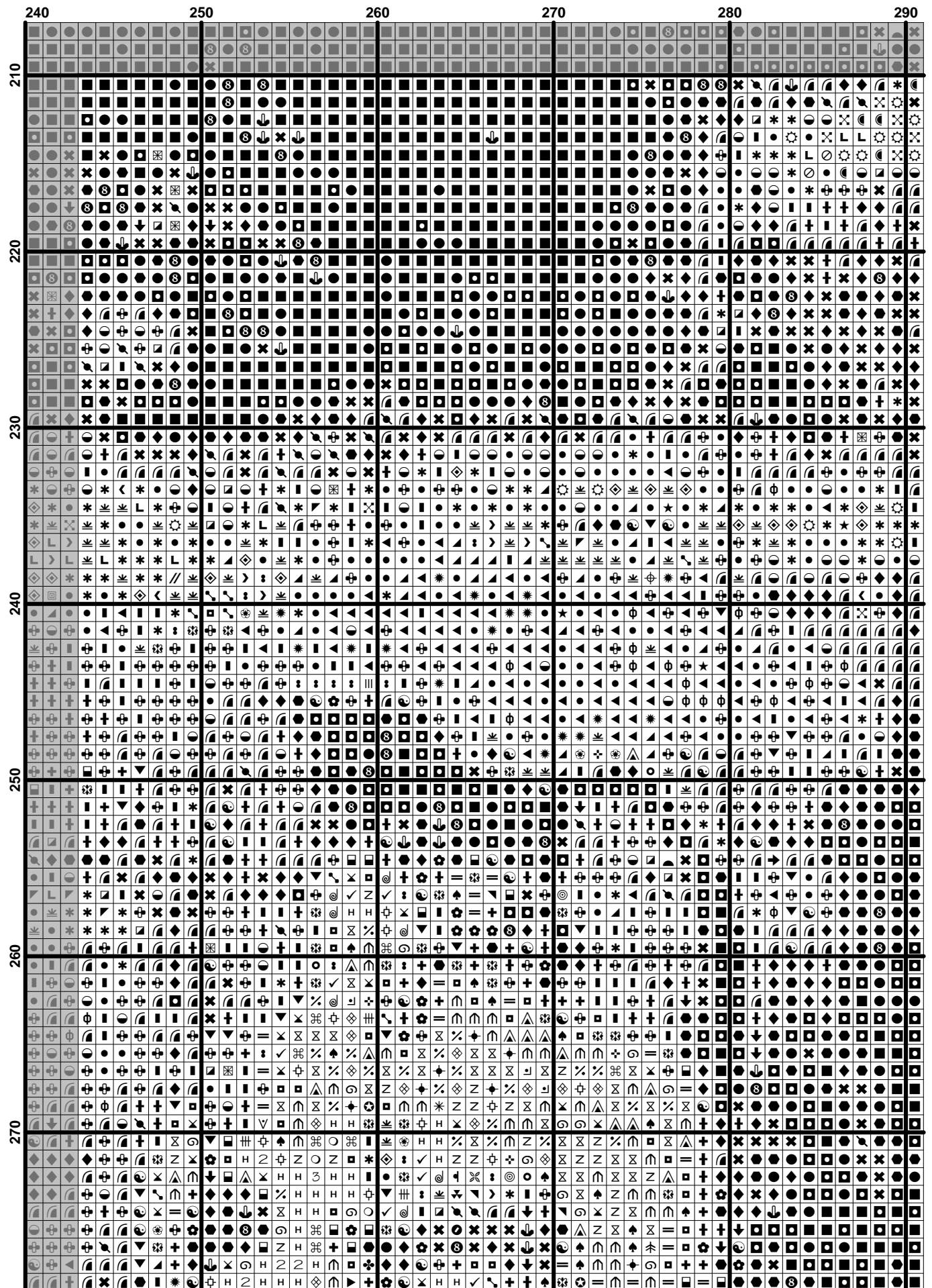


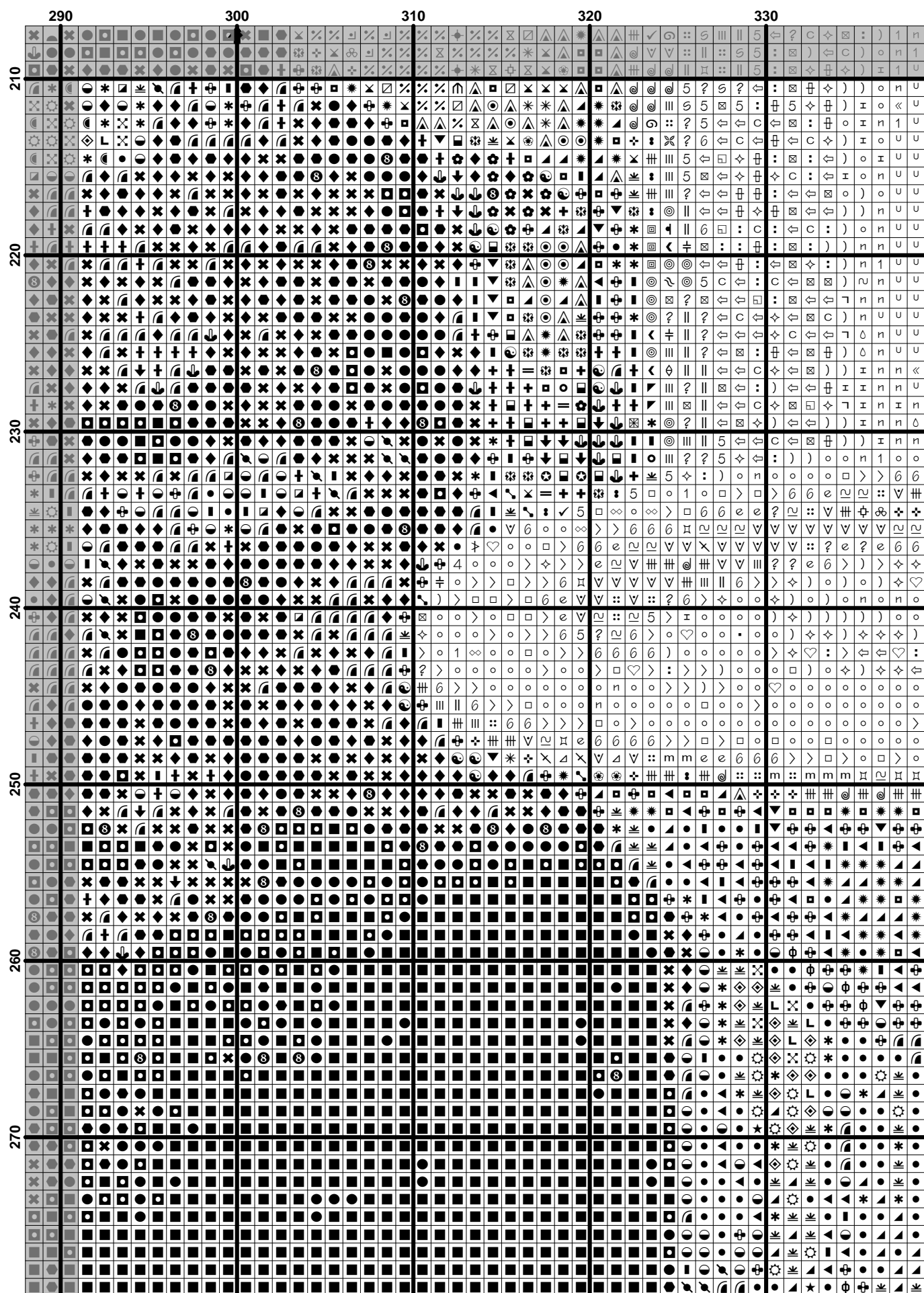


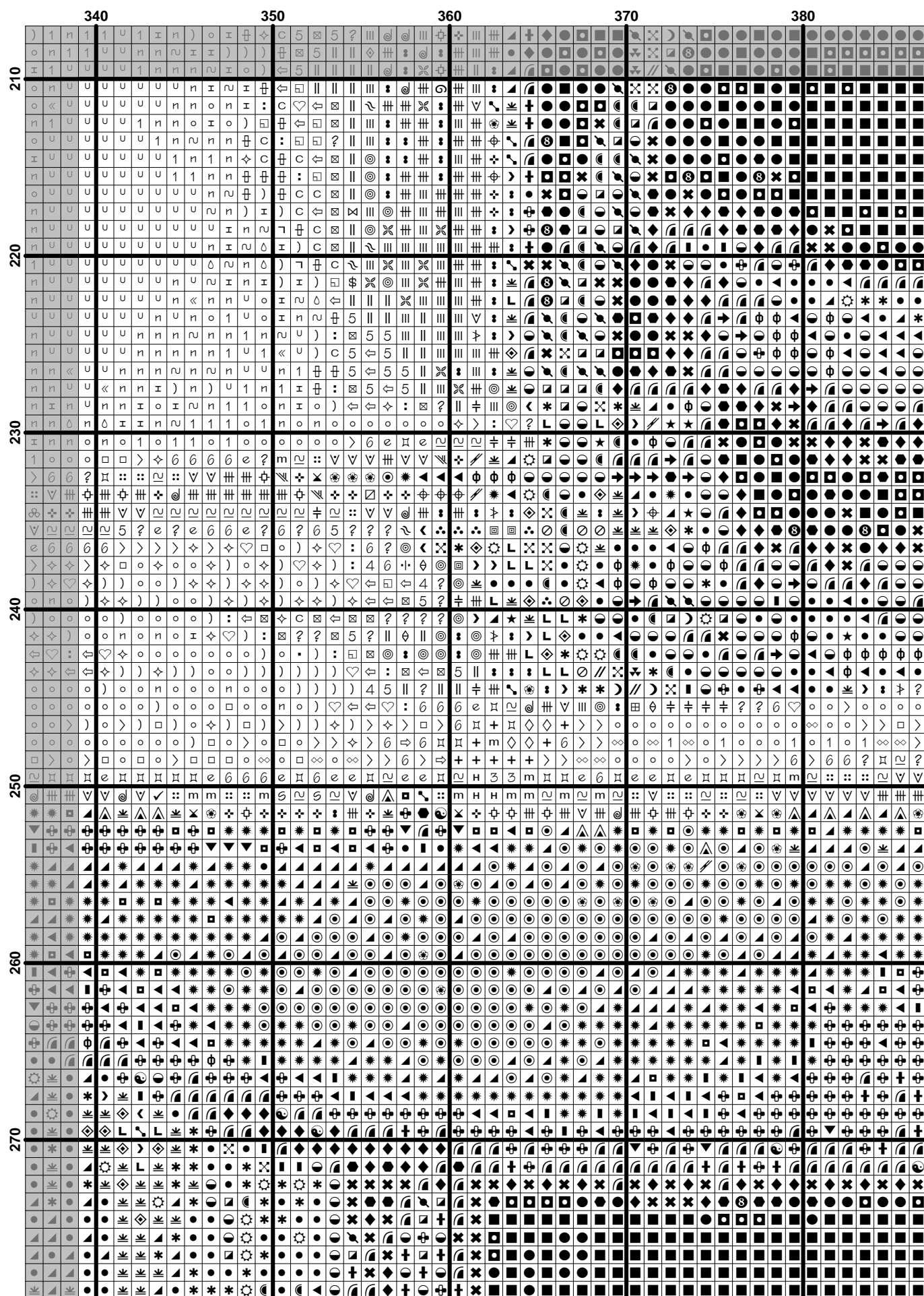
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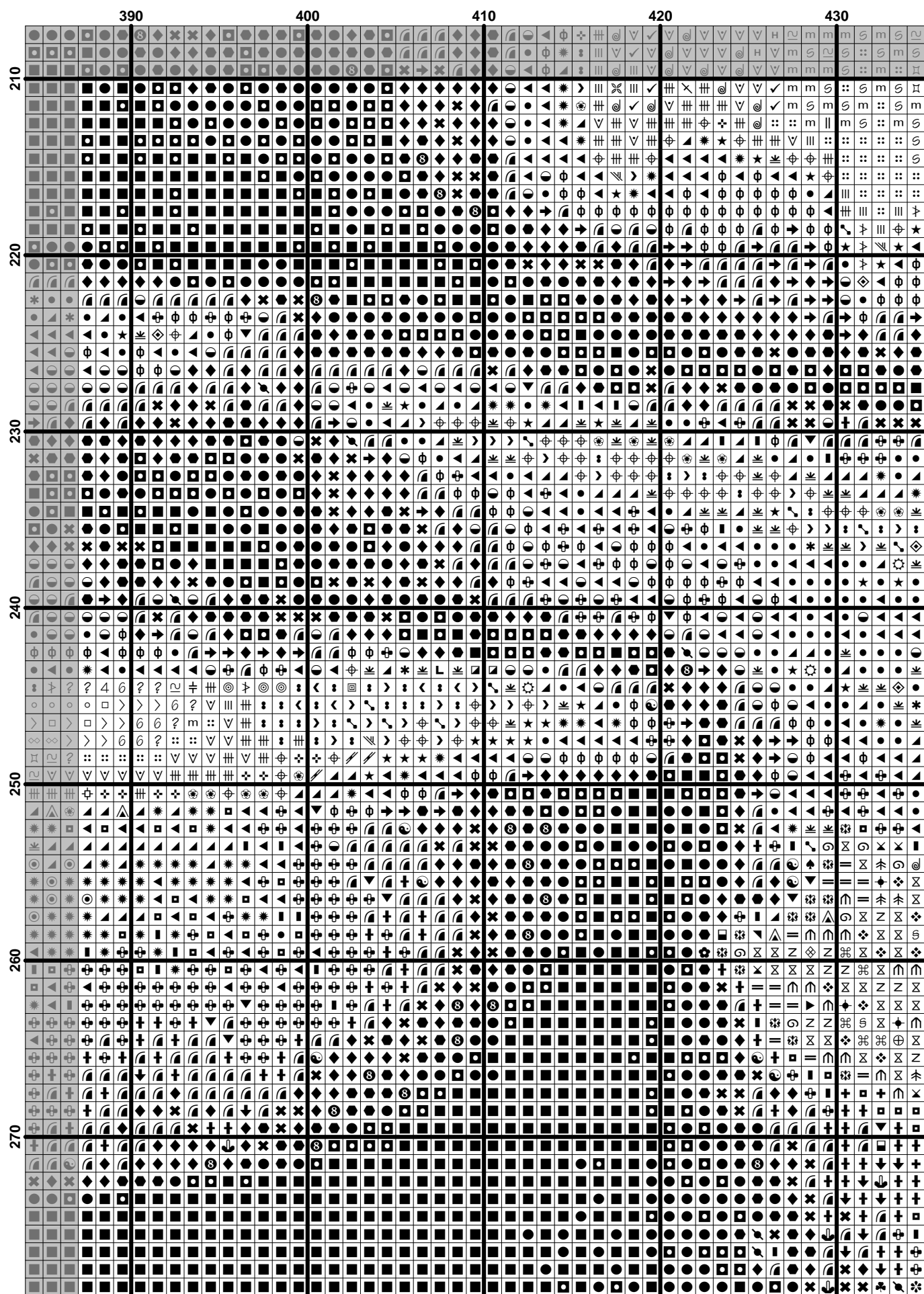
	150	160	170	180	190
210
220
230
240
250
260
270











	440										450										460										470										480									
210	[Complex musical notation for row 210, columns 1-50]																																																	
220	[Complex musical notation for row 220, columns 1-50]																																																	
230	[Complex musical notation for row 230, columns 1-50]																																																	
240	[Complex musical notation for row 240, columns 1-50]																																																	
250	[Complex musical notation for row 250, columns 1-50]																																																	
260	[Complex musical notation for row 260, columns 1-50]																																																	
270	[Complex musical notation for row 270, columns 1-50]																																																	

[illegible]

	530	540	550	560	570
210	♠	♠	♠	♠	♠
220	♠	♠	♠	♠	♠
230	♠	♠	♠	♠	♠
240	♠	♠	♠	♠	♠
250	♠	♠	♠	♠	♠
260	♠	♠	♠	♠	♠
270	♠	♠	♠	♠	♠

(65)

