

1130 Blairie Roses



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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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Blairie Roses

Stitch Count	
Horizontal:	400
Vertical:	521

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	95	37.12	64	24.89	83	32.48	57	22.125	74	28.875
Including Margins:	89	35	111	44	80	31	99	39	73	29	90	35
	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	133	51.96	85	33.18	110	43.3	42	16.59	55	21.65
Including Margins:	118	46	149	58	101	40	126	50	58	23	71	28
	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	53	20.78	39	15.31	51	19.98	37	14.74	49	19.24
Including Margins:	56	22	69	27	55	22	67	26	53	21	65	26
	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	47	18.56	34	13.27	44	17.32	31	12.44	41	16.24
Including Margins:	52	21	63	25	50	20	60	24	47	19	57	23

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
⌘	211	Lavender-LT
■	310	Black
⌘	316	Antique Mauve-MD
×	370	Mustard-MD
⊙	371	Mustard
⌘	407	Desert Sand-DK
★	420	Hazelnut Brown-DK
::	422	Hazelnut Brown-LT
♣	433	Brown-MD
§	436	Tan
?	437	Tan-LT
∅	451	Shell Gray-DK
∇	452	Shell Gray-MD
∅	453	Shell Gray-LT
н	604	Cranberry-LT
β	605	Cranberry-VY LT
►	610	Drab Brown-DK
◄	611	Drab Brown
‡	612	Drab Brown-LT
н	640	Beige Gray-VY DK
⌘	644	Beige Gray-MD
‡	647	Beaver Gray-MD
□	677	Old Gold-VY LT
∇	730	Olive Green-VY DK
↓	738	Tan-VY LT
⇒	739	Tan-UL VY LT
«	746	Off White
◄	778	Antique Mauve-VY LT
✕	815	Garnet-MD
△	819	Baby Pink-LT
○	822	Beige Gray-LT
⌘	830	Golden Olive-DK
▲	839	Beige Brown-DK
⌘	841	Beige Brown-LT
♥	898	Coffee Brown-VY DK
●	902	Garnet-VY DK
●	934	Black Avocado Green
⊙	938	Coffee Brown-UL DK
l	948	Peach-VY LT
/	950	Desert Sand-LT
<	963	Dusty Rose-UL VY LT

◄	3011	Khaki Green-DK
◄	3012	Khaki Green-MD
**	3021	Brown Gray-VY DK
●	3031	Mocha Brown-VY DK
⌘	3032	Mocha Brown-MD
⌘	3041	Antique Violet-MD
×	3042	Antique Violet-LT
∇	3045	Yellow Beige-DK
±	3078	Golden Yellow-VY LT
◊	3350	Dusty Rose-UL DK
■	3371	Black Brown
#	3608	Plum-VY LT
7	3609	Plum-UL LT
▼	3685	Mauve-DK
L	3687	Mauve
▲	3688	Mauve-MD
♡	3713	Salmon-VY LT
◄	3721	Shell Pink-DK
▲	3726	Antique Mauve-DK
φ	3740	Antique Violet-DK
5	3743	Antique Violet-VY LT
◊	3756	Baby Blue-UL VY LT
c	3770	Tawny-VY LT
◄	3781	Mocha Brown-DK
✓	3782	Mocha Brown-LT
◄	3787	Brown Gray-DK
⌘	3790	Beige Gray-UL DK
◄	3802	Antique Mauve-VY DK
†	3803	Mauve-MD
τ	3806	Cyclamen Pink-LT
◄	3827	Golden Brown-Pale
\$	3828	Hazelnut Brown
⌘	3834	Grape-DK
✦	3835	Grape-MD
⌘	3836	Grape-LT
v	3855	Autumn Gold-LT
◇	3856	Mahogany-UL VY LT
▲	3860	Cocoa
◄	3861	Cocoa-LT
✦	3862	Mocha Beige-DK
✦	3863	Mocha Beige-MD
◊	3864	Mocha Beige-LT
1	3865	Winter White

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
➔	844	Beaver Brown-UL DK	3021	Brown Gray-VY DK
◄	610	Drab Brown-DK	839	Beige Brown-DK
▲	640	Beige Gray-VY DK	3860	Cocoa
*	420	Hazelnut Brown-DK	632	Desert Sand-UL VY DK
φ	610	Drab Brown-DK	632	Desert Sand-UL VY DK

♠	610	Drab Brown-DK	830	Golden Olive-DK
+	632	Desert Sand-UL VY DK	869	Hazelnut Brown-VY DK
✕	420	Hazelnut Brown-DK	3012	Khaki Green-MD
✕	610	Drab Brown-DK	640	Beige Gray-VY DK
✕	844	Beaver Brown-UL DK	3787	Brown Gray-DK
◀	3726	Antique Mauve-DK	3740	Antique Violet-DK
●	938	Coffee Brown-UL DK	3371	Black Brown
n	3865	Winter White	819	Baby Pink-LT
=	605	Cranberry-VY LT	963	Dusty Rose-UL VY LT
∅	762	Pearl Gray-VY LT	3743	Antique Violet-VY LT
u	1	White 1	3865	Winter White
☛	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
⊙	3861	Cocoa-LT	452	Shell Gray-MD
z	451	Shell Gray-DK	647	Beaver Gray-MD
∞	3032	Mocha Brown-MD	3726	Antique Mauve-DK
∞	3865	Winter White	963	Dusty Rose-UL VY LT
⊕	316	Antique Mauve-MD	3861	Cocoa-LT
9	738	Tan-VY LT	739	Tan-UL VY LT
☛	451	Shell Gray-DK	640	Beige Gray-VY DK
z	553	Violet	3861	Cocoa-LT
♦	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
:	754	Peach-LT	3855	Autumn Gold-LT
=	610	Drab Brown-DK	3790	Beige Gray-UL DK
■	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
◇	611	Drab Brown	3772	Desert Sand-VY DK
6	452	Shell Gray-MD	453	Shell Gray-LT
⊕	3726	Antique Mauve-DK	841	Beige Brown-LT
~	841	Beige Brown-LT	3864	Mocha Beige-LT
↑	3770	Tawny-VY LT	948	Peach-VY LT
▼	3802	Antique Mauve-VY DK	3787	Brown Gray-DK
☾	610	Drab Brown-DK	611	Drab Brown
☼	830	Golden Olive-DK	936	Avocado Green-VY DK
☼	829	Golden Olive-VY DK	898	Coffee Brown-VY DK
↓	830	Golden Olive-DK	898	Coffee Brown-VY DK
☼	936	Avocado Green-VY DK	898	Coffee Brown-VY DK
☼	640	Beige Gray-VY DK	830	Golden Olive-DK
..	422	Hazelnut Brown-LT	3045	Yellow Beige-DK
♠	611	Drab Brown	612	Drab Brown-LT
☼	371	Mustard	833	Golden Olive-LT
⊕	3828	Hazelnut Brown	3772	Desert Sand-VY DK
♠	452	Shell Gray-MD	644	Beige Gray-MD
△	3713	Salmon-VY LT	453	Shell Gray-LT
6	822	Beige Gray-LT	3743	Antique Violet-VY LT
✓	3743	Antique Violet-VY LT	778	Antique Mauve-VY LT
+	822	Beige Gray-LT	453	Shell Gray-LT
✕	3042	Antique Violet-LT	453	Shell Gray-LT
☼	451	Shell Gray-DK	3032	Mocha Brown-MD
☼	452	Shell Gray-MD	316	Antique Mauve-MD
◇	3828	Hazelnut Brown	841	Beige Brown-LT
↑	3781	Mocha Brown-DK	898	Coffee Brown-VY DK
☼	3790	Beige Gray-UL DK	3802	Antique Mauve-VY DK
☼	830	Golden Olive-DK	831	Golden Olive-MD
☼	938	Coffee Brown-UL DK	3031	Mocha Brown-VY DK
▲	610	Drab Brown-DK	936	Avocado Green-VY DK
☼	3346	Hunter Green	611	Drab Brown
◆	936	Avocado Green-VY DK	938	Coffee Brown-UL DK
☼	839	Beige Brown-DK	3011	Khaki Green-DK
III	422	Hazelnut Brown-LT	612	Drab Brown-LT
4	644	Beige Gray-MD	739	Tan-UL VY LT

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☛	898	Coffee Brown-VY DK	610	Drab Brown-DK
↘	738	Tan-VY LT	841	Beige Brown-LT
⦿	739	Tan-UL VY LT	841	Beige Brown-LT
⦿	211	Lavender-LT	963	Dusty Rose-UL VY LT
m	3743	Antique Violet-VY LT	554	Violet-LT
☒	3609	Plum-UL LT	211	Lavender-LT
☒	3609	Plum-UL LT	3743	Antique Violet-VY LT
)	211	Lavender-LT	819	Baby Pink-LT
^	819	Baby Pink-LT	963	Dusty Rose-UL VY LT
~	819	Baby Pink-LT	3756	Baby Blue-UL VY LT
L	211	Lavender-LT	3756	Baby Blue-UL VY LT
2	3608	Plum-VY LT	778	Antique Mauve-VY LT
	3608	Plum-VY LT	605	Cranberry-VY LT
⤵	778	Antique Mauve-VY LT	3836	Grape-LT
☼	3861	Cocoa-LT	3835	Grape-MD
✱	3740	Antique Violet-DK	3835	Grape-MD
⦿	3743	Antique Violet-VY LT	948	Peach-VY LT
↑	3836	Grape-LT	3609	Plum-UL LT
⬇	3835	Grape-MD	3687	Mauve
α	3743	Antique Violet-VY LT	605	Cranberry-VY LT
☐	3726	Antique Mauve-DK	3803	Mauve-MD
✱	3740	Antique Violet-DK	3041	Antique Violet-MD
⤵	3861	Cocoa-LT	3687	Mauve
❖	3041	Antique Violet-MD	3835	Grape-MD
—	605	Cranberry-VY LT	3042	Antique Violet-LT
(762	Pearl Gray-VY LT	3770	Tawny-VY LT
e	3822	Straw-LT	738	Tan-VY LT
▷	948	Peach-VY LT	739	Tan-UL VY LT
⋮	3687	Mauve	316	Antique Mauve-MD
〉	762	Pearl Gray-VY LT	948	Peach-VY LT
3	950	Desert Sand-LT	644	Beige Gray-MD
//	3861	Cocoa-LT	3740	Antique Violet-DK
•	3770	Tawny-VY LT	822	Beige Gray-LT
¼	3864	Mocha Beige-LT	3790	Beige Gray-UL DK
⊕	3835	Grape-MD	316	Antique Mauve-MD
III	604	Cranberry-LT	3806	Cyclamen Pink-LT
●	3687	Mauve	917	Plum-MD
◀	316	Antique Mauve-MD	553	Violet
☆	778	Antique Mauve-VY LT	3326	Rose-LT
⊖	211	Lavender-LT	3836	Grape-LT
*	420	Hazelnut Brown-DK	3828	Hazelnut Brown
♣	3721	Shell Pink-DK	902	Garnet-VY DK
◁	605	Cranberry-VY LT	3836	Grape-LT
☐	3687	Mauve	3806	Cyclamen Pink-LT
◁	3864	Mocha Beige-LT	3688	Mauve-MD
↔	3326	Rose-LT	3713	Salmon-VY LT
⦿	3687	Mauve	3726	Antique Mauve-DK
♂	554	Violet-LT	3042	Antique Violet-LT
☒	3834	Grape-DK	3835	Grape-MD
☒	3011	Khaki Green-DK	3781	Mocha Brown-DK
•	452	Shell Gray-MD	553	Violet
△	3687	Mauve	3688	Mauve-MD

This table specifies how much thread of each color is required to stitch this pattern. It is good to know that one complete DMC skein contains 313 inches (795 cm) thread.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
1	White 1	698	274	665	261	598	235
211	Lavender-LT	781	307	744	292	669	263
310	Black	2116	833	2015	793	1813	713
316	Antique Mauve-MD	616	242	586	230	528	207
370	Mustard-MD	56	22	53	20	48	18
371	Mustard	161	63	154	60	138	54
407	Desert Sand-DK	176	69	168	66	151	59
420	Hazelnut Brown-DK	193	75	183	72	165	64
422	Hazelnut Brown-LT	296	116	282	111	254	100
433	Brown-MD	234	92	223	87	200	78
436	Tan	57	22	54	21	48	18
437	Tan-LT	135	53	129	50	116	45
451	Shell Gray-DK	452	177	430	169	387	152
452	Shell Gray-MD	1218	479	1160	456	1044	411
453	Shell Gray-LT	815	320	776	305	698	274
553	Violet	255	100	243	95	219	86
554	Violet-LT	201	79	192	75	172	67
604	Cranberry-LT	71	27	68	26	61	24
605	Cranberry-VY LT	606	238	577	227	519	204
610	Drab Brown-DK	2379	936	2265	891	2039	802
611	Drab Brown	936	368	892	351	803	316
612	Drab Brown-LT	570	224	543	213	489	192
632	Desert Sand-UL VY DK	502	197	478	188	430	169
640	Beige Gray-VY DK	1043	410	994	391	894	351
644	Beige Gray-MD	561	220	535	210	481	189
647	Beaver Gray-MD	255	100	243	95	219	86
677	Old Gold-VY LT	46	18	44	17	39	15
730	Olive Green-VY DK	99	38	94	37	85	33
738	Tan-VY LT	760	299	724	285	651	256
739	Tan-UL VY LT	880	346	838	329	754	296
746	Off White	206	81	196	77	176	69
754	Peach-LT	82	32	78	30	70	27
762	Pearl Gray-VY LT	233	91	222	87	200	78
778	Antique Mauve-VY LT	557	219	530	208	477	187
815	Garnet-MD	41	16	39	15	35	13
819	Baby Pink-LT	1094	430	1042	410	938	369
822	Beige Gray-LT	341	134	325	127	292	114
829	Golden Olive-VY DK	166	65	158	62	142	55
830	Golden Olive-DK	494	194	470	185	423	166
831	Golden Olive-MD	40	15	38	14	34	13
833	Golden Olive-LT	35	13	34	13	30	11
839	Beige Brown-DK	1920	755	1829	720	1646	648
841	Beige Brown-LT	1467	577	1397	550	1257	494
844	Beaver Brown-UL DK	346	136	329	129	296	116
869	Hazelnut Brown-VY DK	80	31	76	29	68	26
898	Coffee Brown-VY DK	2235	879	2129	838	1916	754
902	Garnet-VY DK	133	52	126	49	114	44
917	Plum-MD	37	14	35	13	32	12
934	Black Avocado Green	542	213	516	203	464	182
936	Avocado Green-VY DK	805	316	767	301	690	271
938	Coffee Brown-UL DK	2920	1149	2781	1094	2503	985
948	Peach-VY LT	477	187	454	178	409	161
950	Desert Sand-LT	456	179	434	170	391	153
963	Dusty Rose-UL VY LT	1096	431	1044	411	939	369

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3011	Khaki Green-DK	531	209	506	199	455	179
3012	Khaki Green-MD	250	98	238	93	215	84
3021	Brown Gray-VY DK	1405	553	1338	526	1204	474
3031	Mocha Brown-VY DK	1611	634	1534	603	1380	543
3032	Mocha Brown-MD	525	206	500	196	450	177
3041	Antique Violet-MD	247	97	236	92	212	83
3042	Antique Violet-LT	591	232	563	221	506	199
3045	Yellow Beige-DK	162	63	154	60	139	54
3078	Golden Yellow-VY LT	71	27	68	26	61	24
3326	Rose-LT	67	26	63	24	57	22
3346	Hunter Green	40	15	38	14	34	13
3350	Dusty Rose-UL DK	46	18	44	17	39	15
3371	Black Brown	2999	1180	2856	1124	2570	1011
3608	Plum-VY LT	213	83	203	79	183	72
3609	Plum-UL LT	437	172	416	163	374	147
3685	Mauve-DK	69	27	66	25	59	23
3687	Mauve	450	177	429	168	386	151
3688	Mauve-MD	240	94	229	90	206	81
3713	Salmon-VY LT	267	105	254	100	229	90
3721	Shell Pink-DK	97	38	93	36	83	32
3726	Antique Mauve-DK	659	259	627	246	564	222
3740	Antique Violet-DK	548	215	522	205	470	185
3743	Antique Violet-VY LT	935	368	891	350	801	315
3756	Baby Blue-UL VY LT	195	76	185	72	167	65
3770	Tawny-VY LT	335	131	319	125	287	112
3772	Desert Sand-VY DK	396	155	377	148	339	133
3781	Mocha Brown-DK	1663	654	1584	623	1426	561
3782	Mocha Brown-LT	279	109	266	104	239	94
3787	Brown Gray-DK	739	290	704	277	634	249
3790	Beige Gray-UL DK	1357	534	1292	508	1163	457
3802	Antique Mauve-VY DK	487	191	464	182	417	164
3803	Mauve-MD	237	93	226	88	203	79
3806	Cyclamen Pink-LT	62	24	59	23	53	20
3822	Straw-LT	39	15	37	14	33	12
3827	Golden Brown-Pale	17	6	16	6	14	5
3828	Hazelnut Brown	290	114	276	108	248	97
3834	Grape-DK	159	62	151	59	136	53
3835	Grape-MD	527	207	502	197	452	177
3836	Grape-LT	581	228	553	217	498	196
3855	Autumn Gold-LT	118	46	113	44	101	39
3856	Mahogany-UL VY LT	108	42	103	40	92	36
3860	Cocoa	734	288	699	275	629	247
3861	Cocoa-LT	1080	425	1029	405	926	364
3862	Mocha Beige-DK	630	248	600	236	540	212
3863	Mocha Beige-MD	486	191	463	182	417	164
3864	Mocha Beige-LT	980	385	933	367	840	330
3865	Winter White	1834	722	1747	687	1572	618

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	1076	423	897	353	449	176
211	Lavender-LT	1204	473	1004	395	502	197
310	Black	3263	1283	2720	1070	1360	535
316	Antique Mauve-MD	950	373	792	311	396	155
370	Mustard-MD	86	32	72	27	36	14

371	Mustard	248	97	207	81	104	41
407	Desert Sand-DK	272	106	227	89	113	44
420	Hazelnut Brown-DK	297	115	248	96	124	48
422	Hazelnut Brown-LT	457	180	381	150	191	75
433	Brown-MD	360	140	300	117	150	59
436	Tan	86	32	72	27	36	14
437	Tan-LT	209	81	174	68	87	34
451	Shell Gray-DK	697	274	581	228	290	114
452	Shell Gray-MD	1879	740	1566	617	783	308
453	Shell Gray-LT	1256	493	1047	411	524	206
553	Violet	394	155	329	129	164	65
554	Violet-LT	310	121	258	101	129	50
604	Cranberry-LT	110	43	92	36	46	18
605	Cranberry-VY LT	934	367	779	306	389	153
610	Drab Brown-DK	3670	1444	3059	1203	1529	602
611	Drab Brown	1445	569	1205	474	602	237
612	Drab Brown-LT	880	346	734	288	367	144
632	Desert Sand-UL VY DK	774	304	645	254	323	127
640	Beige Gray-VY DK	1609	632	1341	527	671	263
644	Beige Gray-MD	866	340	722	284	361	142
647	Beaver Gray-MD	394	155	329	129	164	65
677	Old Gold-VY LT	70	27	59	23	29	11
730	Olive Green-VY DK	153	59	128	50	64	25
738	Tan-VY LT	1172	461	977	384	488	192
739	Tan-UL VY LT	1357	533	1131	444	566	222
746	Off White	317	124	264	104	132	52
754	Peach-LT	126	49	105	41	53	20
762	Pearl Gray-VY LT	360	140	300	117	150	59
778	Antique Mauve-VY LT	859	337	716	281	358	140
815	Garnet-MD	63	23	53	20	26	10
819	Baby Pink-LT	1688	664	1407	554	704	277
822	Beige Gray-LT	526	205	438	171	219	86
829	Golden Olive-VY DK	256	99	213	83	107	41
830	Golden Olive-DK	761	299	635	249	317	125
831	Golden Olive-MD	61	23	51	20	26	10
833	Golden Olive-LT	54	20	45	17	23	8
839	Beige Brown-DK	2963	1166	2469	972	1235	486
841	Beige Brown-LT	2263	889	1886	741	943	371
844	Beaver Brown-UL DK	533	209	444	174	222	87
869	Hazelnut Brown-VY DK	122	47	102	39	51	20
898	Coffee Brown-VY DK	3449	1357	2874	1131	1437	566
902	Garnet-VY DK	205	79	171	66	86	33
917	Plum-MD	58	22	48	18	24	9
934	Black Avocado Green	835	328	696	273	348	137
936	Avocado Green-VY DK	1242	488	1035	407	518	203
938	Coffee Brown-UL DK	4505	1773	3755	1478	1877	739
948	Peach-VY LT	736	290	614	242	307	121
950	Desert Sand-LT	704	275	587	230	293	115
963	Dusty Rose-UL VY LT	1690	664	1409	554	704	277
3011	Khaki Green-DK	819	322	683	269	341	134
3012	Khaki Green-MD	387	151	323	126	161	63
3021	Brown Gray-VY DK	2167	853	1806	711	903	356
3031	Mocha Brown-VY DK	2484	977	2070	815	1035	407
3032	Mocha Brown-MD	810	319	675	266	338	133
3041	Antique Violet-MD	382	149	318	125	159	62
3042	Antique Violet-LT	911	358	759	299	380	149
3045	Yellow Beige-DK	250	97	209	81	104	41
3078	Golden Yellow-VY LT	110	43	92	36	46	18
3326	Rose-LT	103	40	86	33	43	17

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3346	Hunter Green	61	23	51	20	26	10
3350	Dusty Rose-UL DK	70	27	59	23	29	11
3371	Black Brown	4626	1820	3855	1517	1928	758
3608	Plum-VY LT	329	130	275	108	137	54
3609	Plum-UL LT	673	265	561	221	281	110
3685	Mauve-DK	106	41	89	35	44	17
3687	Mauve	695	272	579	227	290	113
3688	Mauve-MD	371	146	309	122	155	61
3713	Salmon-VY LT	412	162	344	135	172	68
3721	Shell Pink-DK	149	58	125	48	62	24
3726	Antique Mauve-DK	1015	400	846	333	423	167
3740	Antique Violet-DK	846	333	705	278	353	139
3743	Antique Violet-VY LT	1442	567	1202	473	601	236
3756	Baby Blue-UL VY LT	301	117	251	98	125	49
3770	Tawny-VY LT	517	202	431	168	215	84
3772	Desert Sand-VY DK	610	239	509	200	254	100
3781	Mocha Brown-DK	2567	1010	2139	842	1070	421
3782	Mocha Brown-LT	430	169	359	141	179	71
3787	Brown Gray-DK	1141	448	951	374	476	187
3790	Beige Gray-UL DK	2093	823	1745	686	872	343
3802	Antique Mauve-VY DK	751	295	626	246	313	123
3803	Mauve-MD	365	142	305	119	152	59
3806	Cyclamen Pink-LT	95	36	80	30	40	15
3822	Straw-LT	59	22	50	18	25	9
3827	Golden Brown-Pale	25	9	21	8	11	4
3828	Hazelnut Brown	446	175	372	146	186	73
3834	Grape-DK	245	95	204	80	102	40
3835	Grape-MD	814	319	678	266	339	133
3836	Grape-LT	896	353	747	294	374	147
3855	Autumn Gold-LT	182	70	152	59	76	29
3856	Mahogany-UL VY LT	166	65	138	54	69	27
3860	Cocoa	1132	445	944	371	472	185
3861	Cocoa-LT	1667	655	1389	546	695	273
3862	Mocha Beige-DK	972	382	810	318	405	159
3863	Mocha Beige-MD	751	295	626	246	313	123
3864	Mocha Beige-LT	1512	594	1260	495	630	248
3865	Winter White	2830	1112	2358	927	1179	464

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	431	169	414	163	399	157
211	Lavender-LT	482	189	463	182	446	175
310	Black	1305	513	1255	494	1209	475
316	Antique Mauve-MD	380	149	366	143	352	138
370	Mustard-MD	35	13	33	12	32	12
371	Mustard	99	39	96	37	92	36
407	Desert Sand-DK	109	42	105	41	101	39
420	Hazelnut Brown-DK	119	46	114	44	110	43
422	Hazelnut Brown-LT	183	72	176	69	169	67
433	Brown-MD	144	56	138	54	133	52
436	Tan	35	13	33	12	32	12
437	Tan-LT	84	32	80	31	77	30
451	Shell Gray-DK	279	109	268	105	258	101
452	Shell Gray-MD	752	296	723	285	696	274
453	Shell Gray-LT	503	197	483	190	465	183

553	Violet	158	62	152	60	146	57
554	Violet-LT	124	48	119	46	115	45
604	Cranberry-LT	44	17	42	17	41	16
605	Cranberry-VY LT	374	147	359	141	346	136
610	Drab Brown-DK	1468	577	1412	555	1359	535
611	Drab Brown	578	228	556	219	535	211
612	Drab Brown-LT	352	138	339	133	326	128
632	Desert Sand-UL VY DK	310	122	298	117	287	113
640	Beige Gray-VY DK	644	253	619	243	596	234
644	Beige Gray-MD	346	136	333	131	321	126
647	Beaver Gray-MD	158	62	152	60	146	57
677	Old Gold-VY LT	28	11	27	10	26	10
730	Olive Green-VY DK	61	24	59	23	57	22
738	Tan-VY LT	469	184	451	177	434	171
739	Tan-UL VY LT	543	213	522	205	503	197
746	Off White	127	50	122	48	117	46
754	Peach-LT	50	19	48	19	47	18
762	Pearl Gray-VY LT	144	56	138	54	133	52
778	Antique Mauve-VY LT	343	135	330	129	318	125
815	Garnet-MD	25	9	24	9	23	9
819	Baby Pink-LT	675	266	649	255	625	246
822	Beige Gray-LT	210	82	202	79	195	76
829	Golden Olive-VY DK	102	40	98	38	95	37
830	Golden Olive-DK	305	120	293	115	282	111
831	Golden Olive-MD	24	9	24	9	23	9
833	Golden Olive-LT	22	8	21	8	20	7
839	Beige Brown-DK	1185	467	1140	449	1097	432
841	Beige Brown-LT	905	356	870	342	838	329
844	Beaver Brown-UL DK	213	84	205	80	197	77
869	Hazelnut Brown-VY DK	49	19	47	18	45	17
898	Coffee Brown-VY DK	1380	543	1326	522	1277	503
902	Garnet-VY DK	82	32	79	30	76	29
917	Plum-MD	23	9	22	8	21	8
934	Black Avocado Green	334	131	321	126	309	121
936	Avocado Green-VY DK	497	195	478	188	460	181
938	Coffee Brown-UL DK	1802	709	1733	682	1669	657
948	Peach-VY LT	294	116	283	111	273	107
950	Desert Sand-LT	282	110	271	106	261	102
963	Dusty Rose-UL VY LT	676	266	650	255	626	246
3011	Khaki Green-DK	328	129	315	124	303	119
3012	Khaki Green-MD	155	60	149	58	143	56
3021	Brown Gray-VY DK	867	341	834	328	803	316
3031	Mocha Brown-VY DK	994	391	955	376	920	362
3032	Mocha Brown-MD	324	127	312	123	300	118
3041	Antique Violet-MD	153	60	147	57	141	55
3042	Antique Violet-LT	364	143	350	138	337	133
3045	Yellow Beige-DK	100	39	96	37	93	36
3078	Golden Yellow-VY LT	44	17	42	17	41	16
3326	Rose-LT	41	16	39	15	38	15
3346	Hunter Green	24	9	24	9	23	9
3350	Dusty Rose-UL DK	28	11	27	10	26	10
3371	Black Brown	1850	728	1779	700	1713	674
3608	Plum-VY LT	132	52	127	50	122	48
3609	Plum-UL LT	269	106	259	102	249	98
3685	Mauve-DK	42	17	41	16	39	15
3687	Mauve	278	109	267	105	257	101
3688	Mauve-MD	148	58	143	56	137	54
3713	Salmon-VY LT	165	65	159	62	153	60
3721	Shell Pink-DK	60	23	57	22	55	21

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3726	Antique Mauve-DK	406	160	390	154	376	148
3740	Antique Violet-DK	338	133	325	128	313	123
3743	Antique Violet-VY LT	577	227	555	218	534	210
3756	Baby Blue-UL VY LT	120	47	116	45	111	43
3770	Tawny-VY LT	207	81	199	78	191	75
3772	Desert Sand-VY DK	244	96	235	92	226	89
3781	Mocha Brown-DK	1027	404	987	388	951	374
3782	Mocha Brown-LT	172	68	165	65	159	63
3787	Brown Gray-DK	456	179	439	172	423	166
3790	Beige Gray-UL DK	837	329	805	316	775	305
3802	Antique Mauve-VY DK	300	118	289	114	278	109
3803	Mauve-MD	146	57	141	55	135	53
3806	Cyclamen Pink-LT	38	14	37	14	35	13
3822	Straw-LT	24	9	23	8	22	8
3827	Golden Brown-Pale	10	4	10	3	9	3
3828	Hazelnut Brown	179	70	172	67	165	65
3834	Grape-DK	98	38	94	37	91	35
3835	Grape-MD	325	127	313	123	301	118
3836	Grape-LT	359	141	345	136	332	131
3855	Autumn Gold-LT	73	28	70	27	67	26
3856	Mahogany-UL VY LT	66	26	64	25	61	24
3860	Cocoa	453	178	435	171	419	165
3861	Cocoa-LT	667	262	641	252	617	243
3862	Mocha Beige-DK	389	153	374	147	360	141
3863	Mocha Beige-MD	300	118	289	114	278	109
3864	Mocha Beige-LT	605	238	582	228	560	220
3865	Winter White	1132	445	1088	428	1048	412

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	384	151	359	141	336	132
211	Lavender-LT	430	169	401	158	376	148
310	Black	1166	458	1088	428	1020	401
316	Antique Mauve-MD	339	133	317	124	297	116
370	Mustard-MD	31	12	29	11	27	10
371	Mustard	89	35	83	32	78	30
407	Desert Sand-DK	97	38	91	35	85	33
420	Hazelnut Brown-DK	106	41	99	38	93	36
422	Hazelnut Brown-LT	163	64	152	60	143	56
433	Brown-MD	129	50	120	47	113	44
436	Tan	31	12	29	11	27	10
437	Tan-LT	75	29	70	27	65	25
451	Shell Gray-DK	249	98	232	91	218	86
452	Shell Gray-MD	671	264	626	247	587	231
453	Shell Gray-LT	449	176	419	164	393	154
553	Violet	141	55	131	52	123	48
554	Violet-LT	111	43	103	40	97	38
604	Cranberry-LT	39	15	37	14	34	14
605	Cranberry-VY LT	334	131	311	122	292	115
610	Drab Brown-DK	1311	516	1223	481	1147	451
611	Drab Brown	516	203	482	190	452	178
612	Drab Brown-LT	314	123	293	115	275	108
632	Desert Sand-UL VY DK	276	109	258	101	242	95
640	Beige Gray-VY DK	575	226	536	211	503	197
644	Beige Gray-MD	309	122	289	113	271	106
647	Beaver Gray-MD	141	55	131	52	123	48

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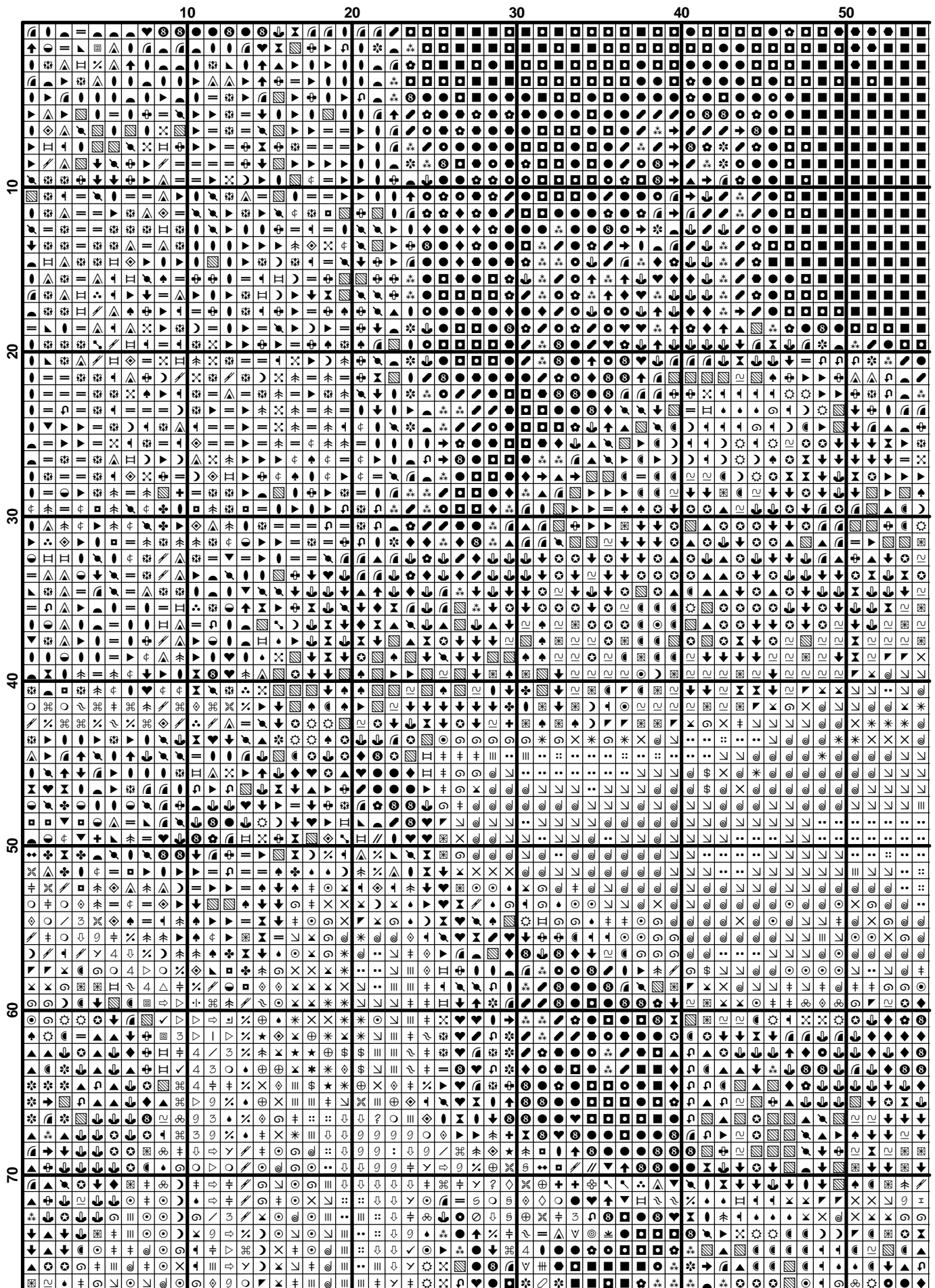
677	Old Gold-VY LT	25	10	23	9	22	8
730	Olive Green-VY DK	55	21	51	20	48	19
738	Tan-VY LT	419	165	391	154	366	144
739	Tan-UL VY LT	485	190	452	178	424	167
746	Off White	113	44	106	41	99	39
754	Peach-LT	45	17	42	16	39	15
762	Pearl Gray-VY LT	129	50	120	47	113	44
778	Antique Mauve-VY LT	307	120	286	112	268	105
815	Garnet-MD	23	8	21	8	20	7
819	Baby Pink-LT	603	237	563	221	528	208
822	Beige Gray-LT	188	73	175	68	164	64
829	Golden Olive-VY DK	91	35	85	33	80	31
830	Golden Olive-DK	272	107	254	100	238	93
831	Golden Olive-MD	22	8	20	8	19	7
833	Golden Olive-LT	19	7	18	7	17	6
839	Beige Brown-DK	1058	417	988	389	926	365
841	Beige Brown-LT	808	318	754	296	707	278
844	Beaver Brown-UL DK	190	75	178	70	167	65
869	Hazelnut Brown-VY DK	44	17	41	16	38	15
898	Coffee Brown-VY DK	1232	485	1150	452	1078	424
902	Garnet-VY DK	73	28	68	26	64	25
917	Plum-MD	21	8	19	7	18	7
934	Black Avocado Green	298	117	278	109	261	102
936	Avocado Green-VY DK	444	174	414	163	388	152
938	Coffee Brown-UL DK	1609	633	1502	591	1408	554
948	Peach-VY LT	263	104	245	97	230	91
950	Desert Sand-LT	251	98	235	92	220	86
963	Dusty Rose-UL VY LT	604	237	563	221	528	208
3011	Khaki Green-DK	293	115	273	107	256	101
3012	Khaki Green-MD	138	54	129	50	121	47
3021	Brown Gray-VY DK	774	305	722	284	677	267
3031	Mocha Brown-VY DK	887	349	828	326	776	305
3032	Mocha Brown-MD	289	114	270	106	253	100
3041	Antique Violet-MD	136	53	127	50	119	47
3042	Antique Violet-LT	325	128	304	119	285	112
3045	Yellow Beige-DK	89	35	83	32	78	30
3078	Golden Yellow-VY LT	39	15	37	14	34	14
3326	Rose-LT	37	14	34	13	32	12
3346	Hunter Green	22	8	20	8	19	7
3350	Dusty Rose-UL DK	25	10	23	9	22	8
3371	Black Brown	1652	650	1542	607	1446	569
3608	Plum-VY LT	118	46	110	43	103	41
3609	Plum-UL LT	240	95	224	88	210	83
3685	Mauve-DK	38	15	35	14	33	13
3687	Mauve	248	97	232	91	217	85
3688	Mauve-MD	132	52	124	49	116	46
3713	Salmon-VY LT	147	58	137	54	129	51
3721	Shell Pink-DK	53	21	50	19	47	18
3726	Antique Mauve-DK	363	143	338	133	317	125
3740	Antique Violet-DK	302	119	282	111	264	104
3743	Antique Violet-VY LT	515	203	481	189	451	177
3756	Baby Blue-UL VY LT	107	42	100	39	94	37
3770	Tawny-VY LT	185	72	172	67	161	63
3772	Desert Sand-VY DK	218	86	203	80	191	75
3781	Mocha Brown-DK	917	361	856	337	802	316
3782	Mocha Brown-LT	154	60	143	56	134	53
3787	Brown Gray-DK	408	160	380	149	357	140
3790	Beige Gray-UL DK	748	294	698	274	654	257
3802	Antique Mauve-VY DK	268	105	250	98	235	92

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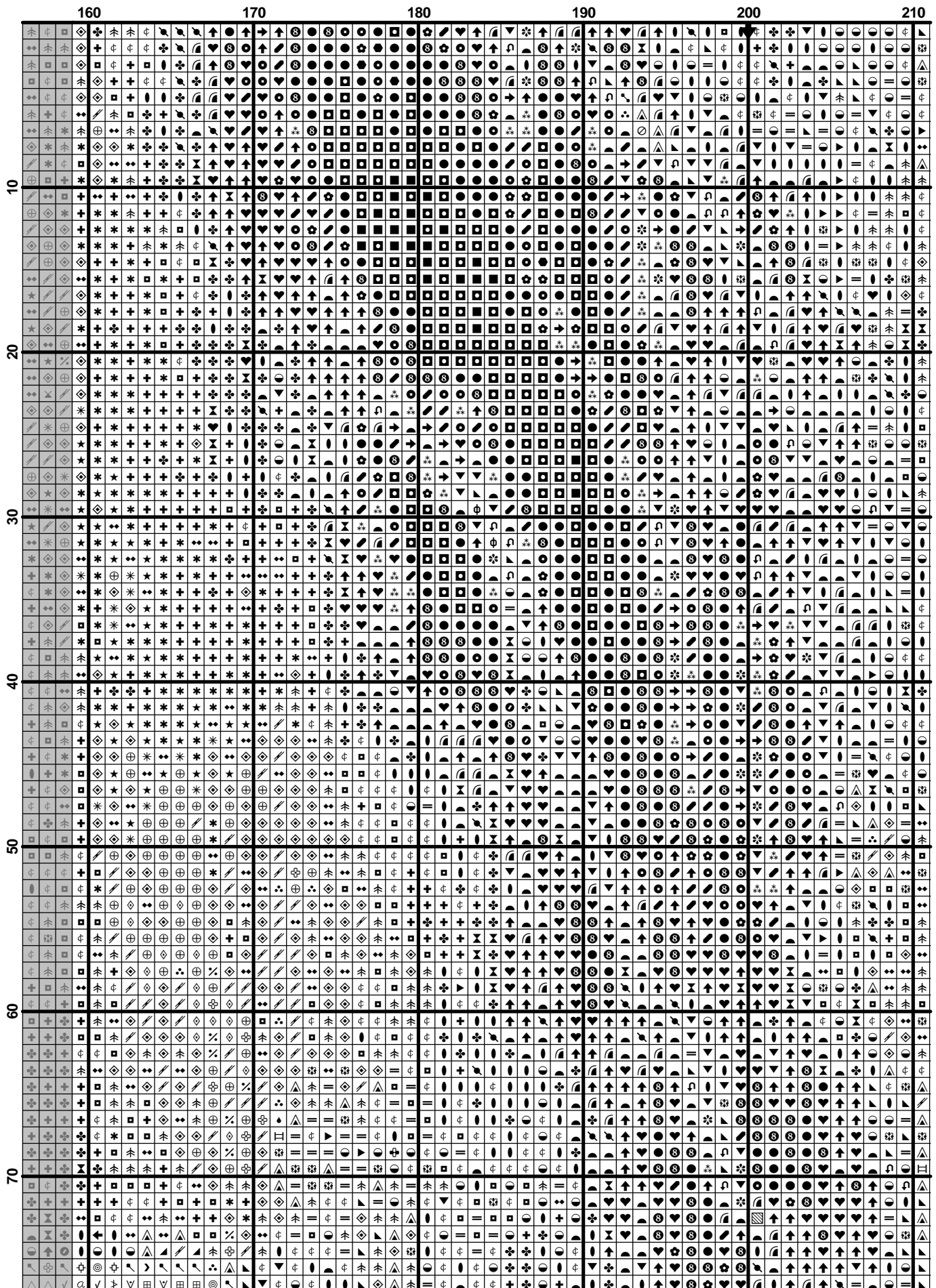
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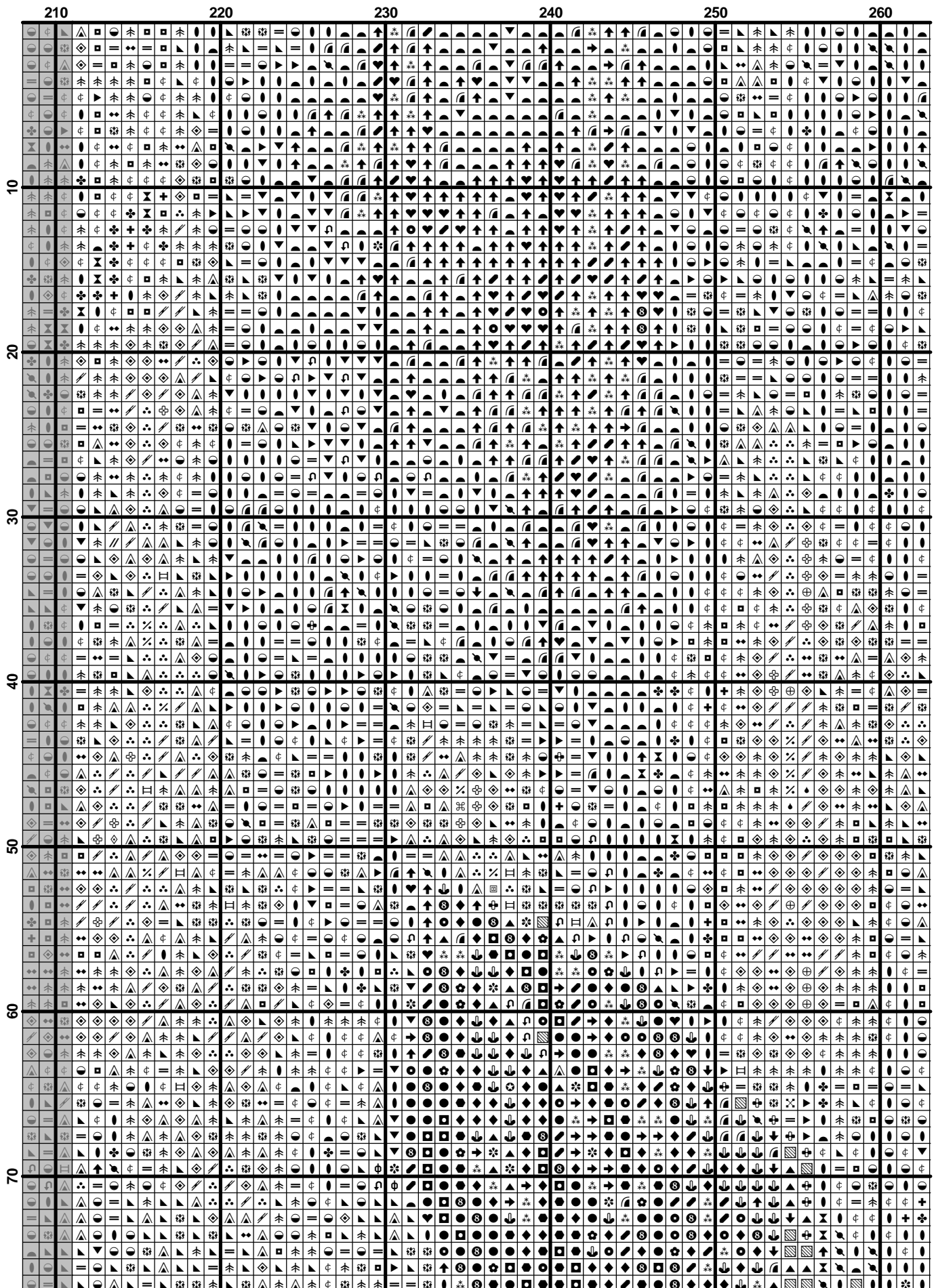
3803	Mauve-MD	131	51	122	47	114	44
3806	Cyclamen Pink-LT	34	13	32	12	30	11
3822	Straw-LT	21	8	20	7	19	7
3827	Golden Brown-Pale	9	3	8	3	8	3
3828	Hazelnut Brown	159	62	149	58	140	55
3834	Grape-DK	87	34	82	32	77	30
3835	Grape-MD	291	114	271	106	254	100
3836	Grape-LT	320	126	299	118	280	110
3855	Autumn Gold-LT	65	25	61	23	57	22
3856	Mahogany-UL VY LT	59	23	55	22	52	20
3860	Cocoa	404	159	377	148	354	139
3861	Cocoa-LT	595	234	556	218	521	205
3862	Mocha Beige-DK	347	136	324	127	304	119
3863	Mocha Beige-MD	268	105	250	98	235	92
3864	Mocha Beige-LT	540	212	504	198	473	186
3865	Winter White	1011	397	943	371	884	348

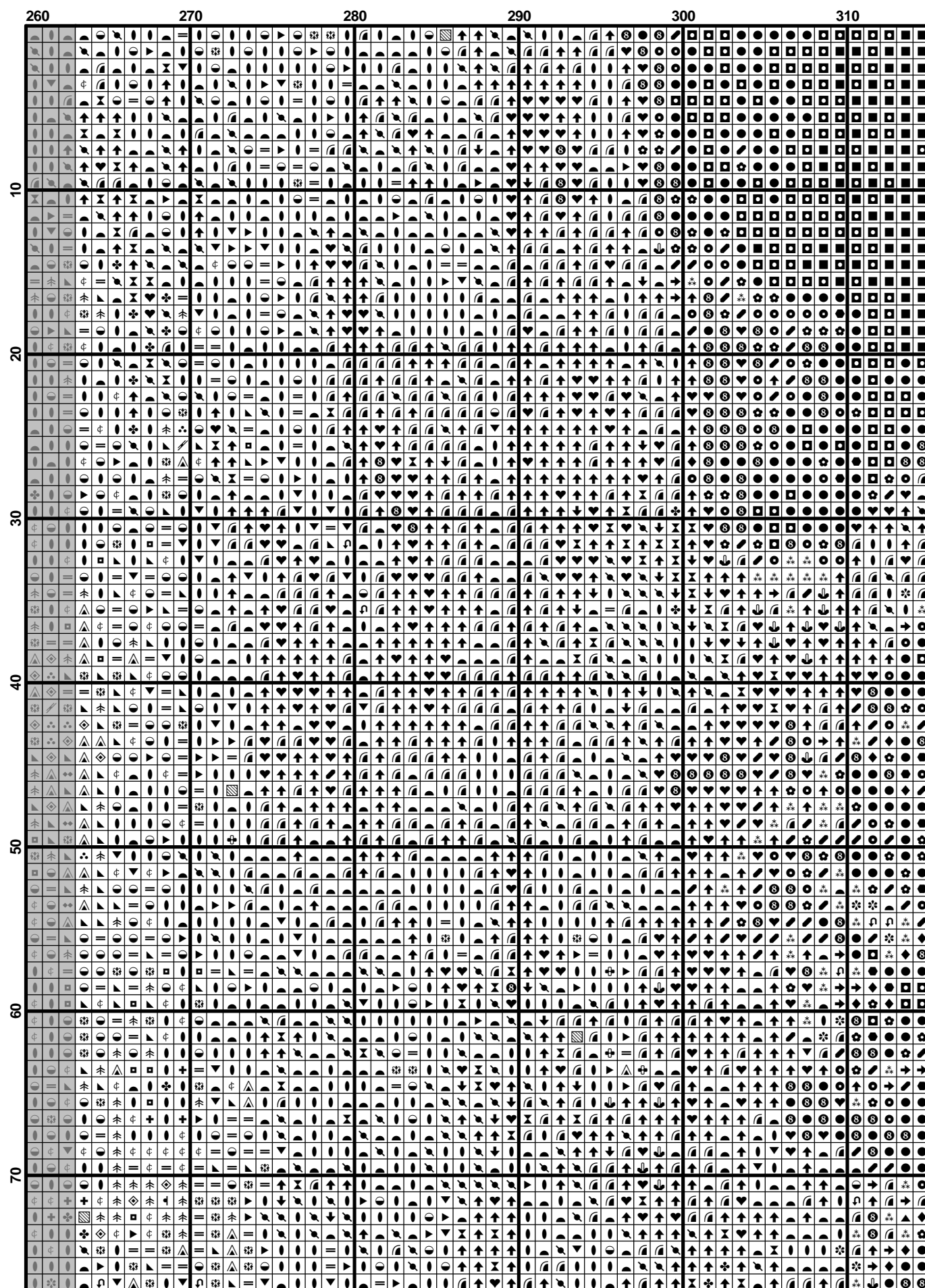


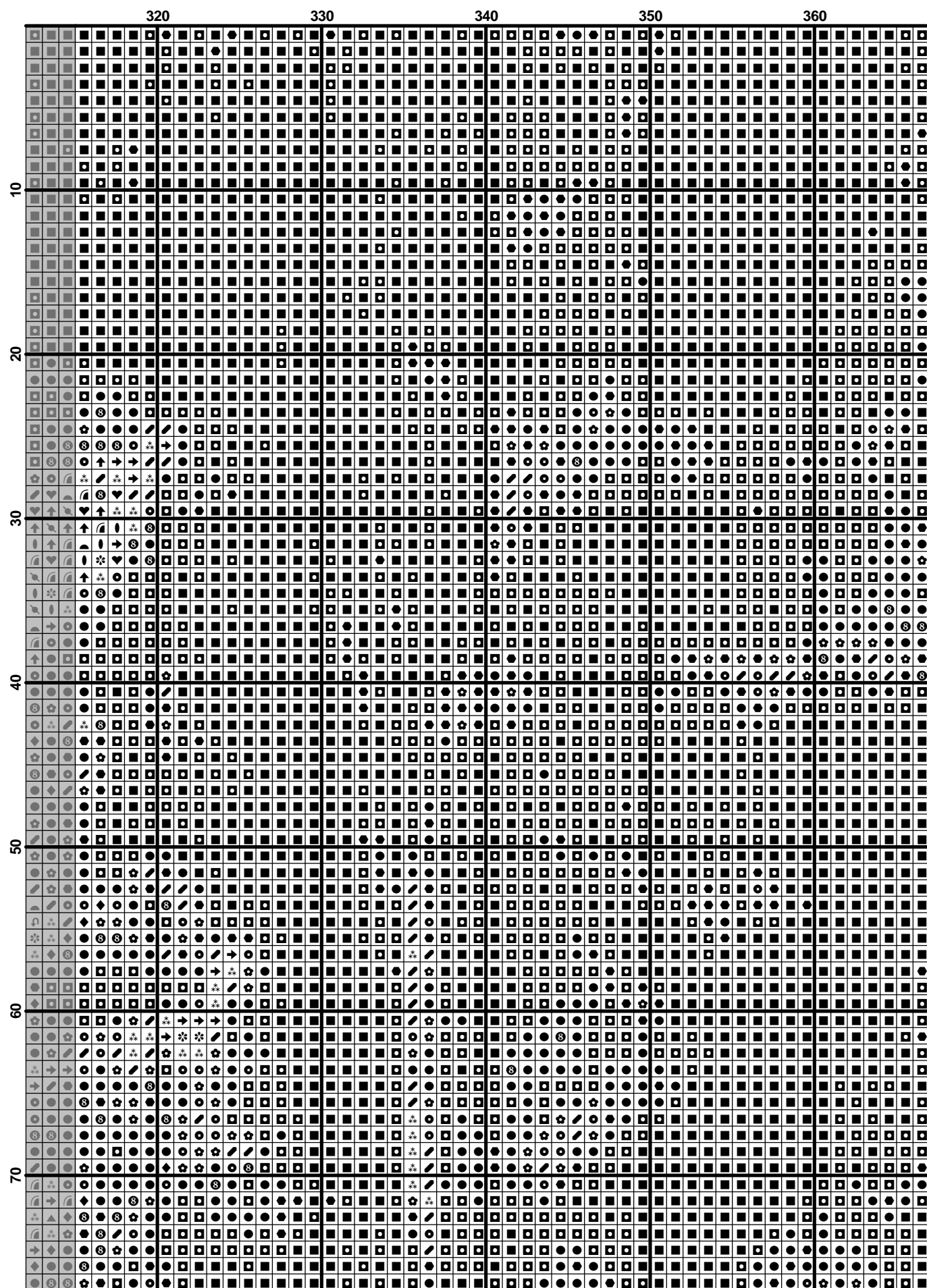
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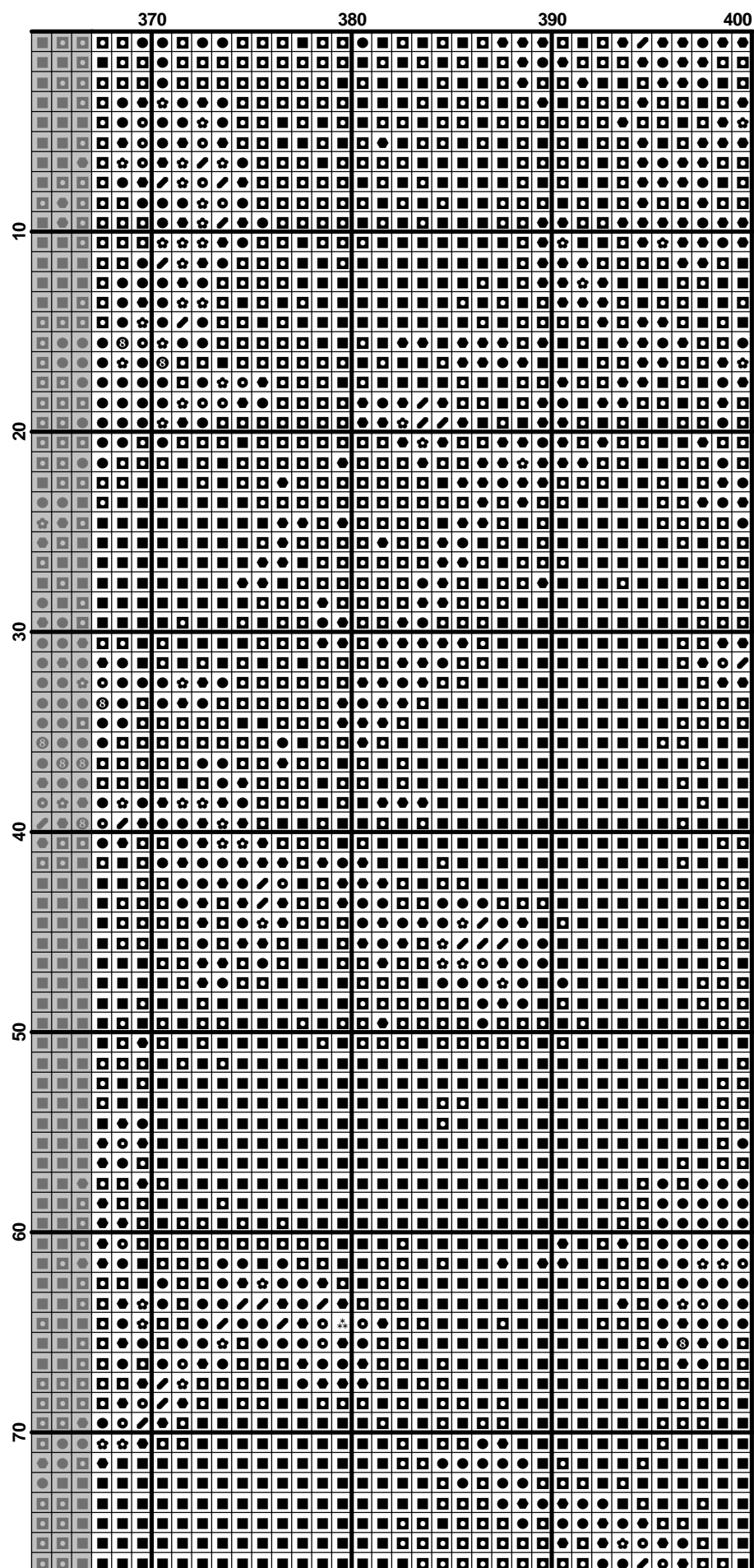
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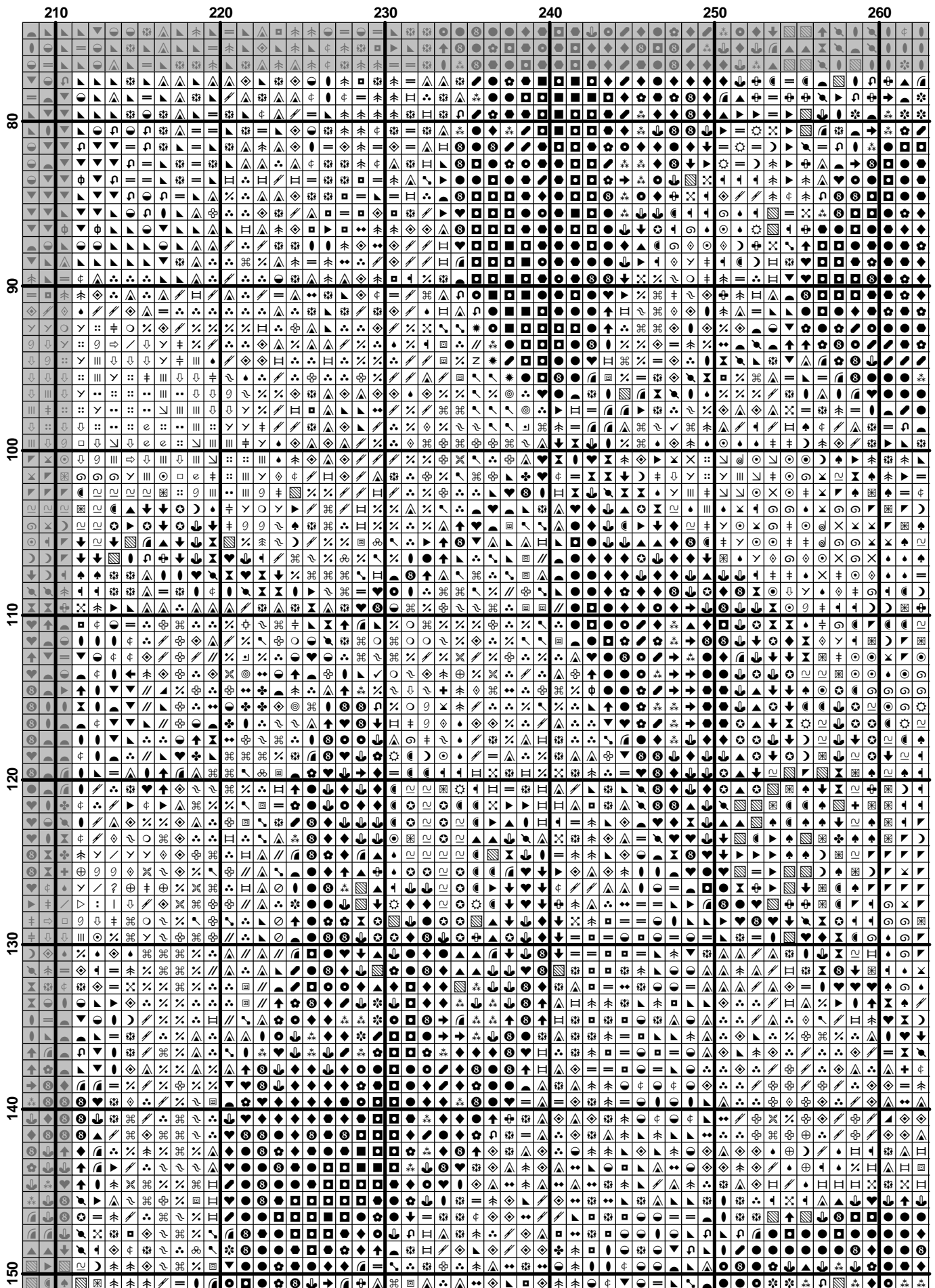


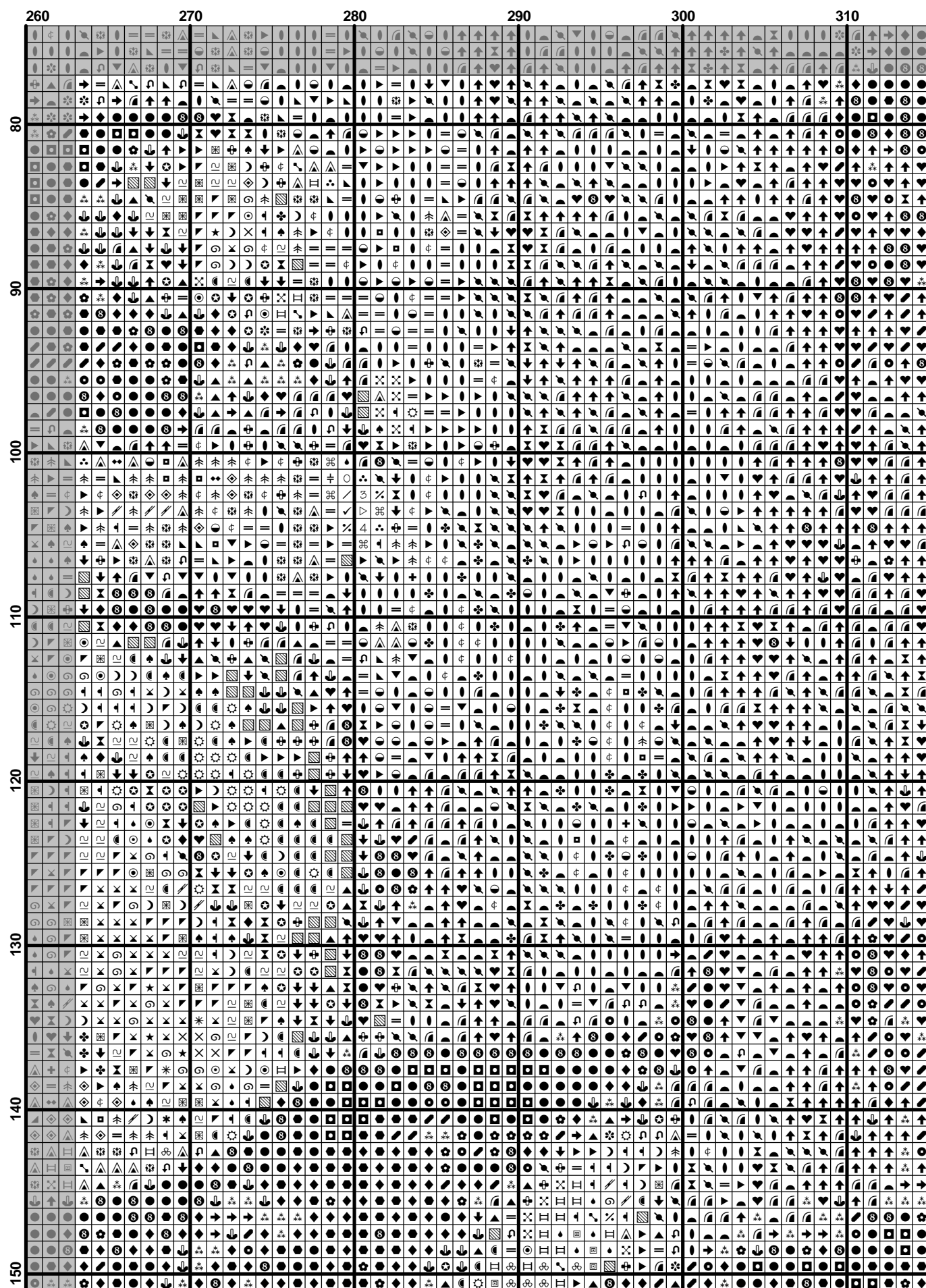
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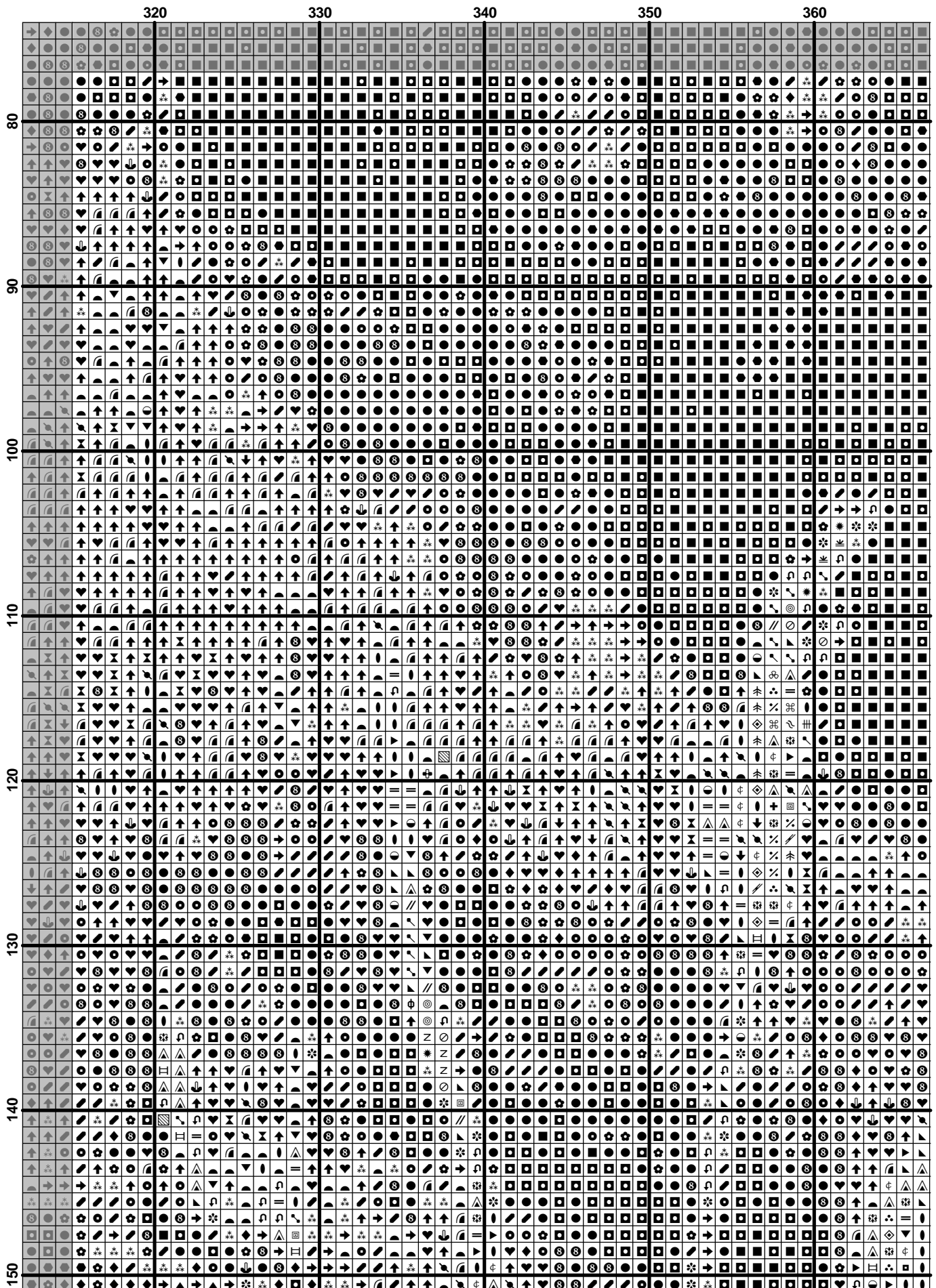
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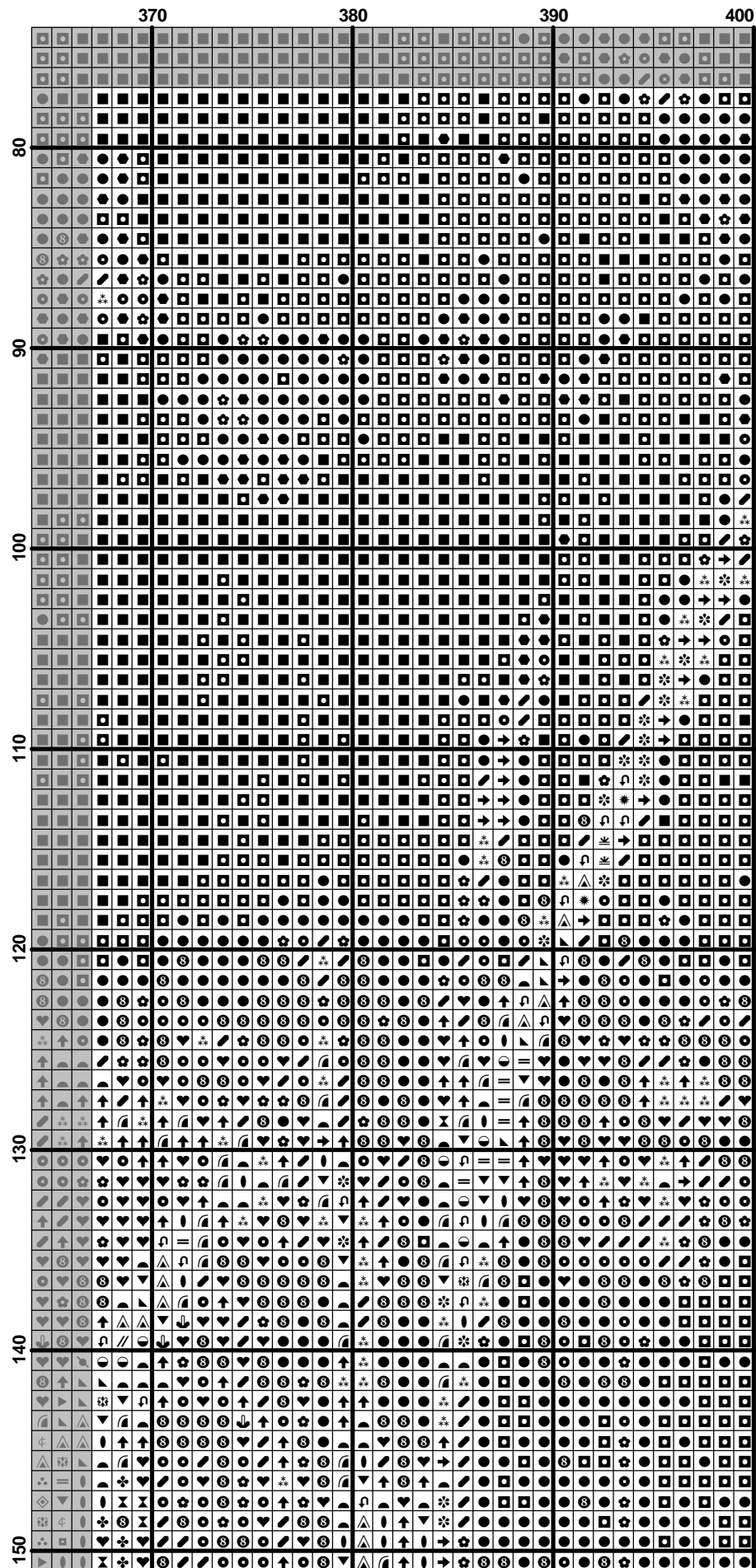
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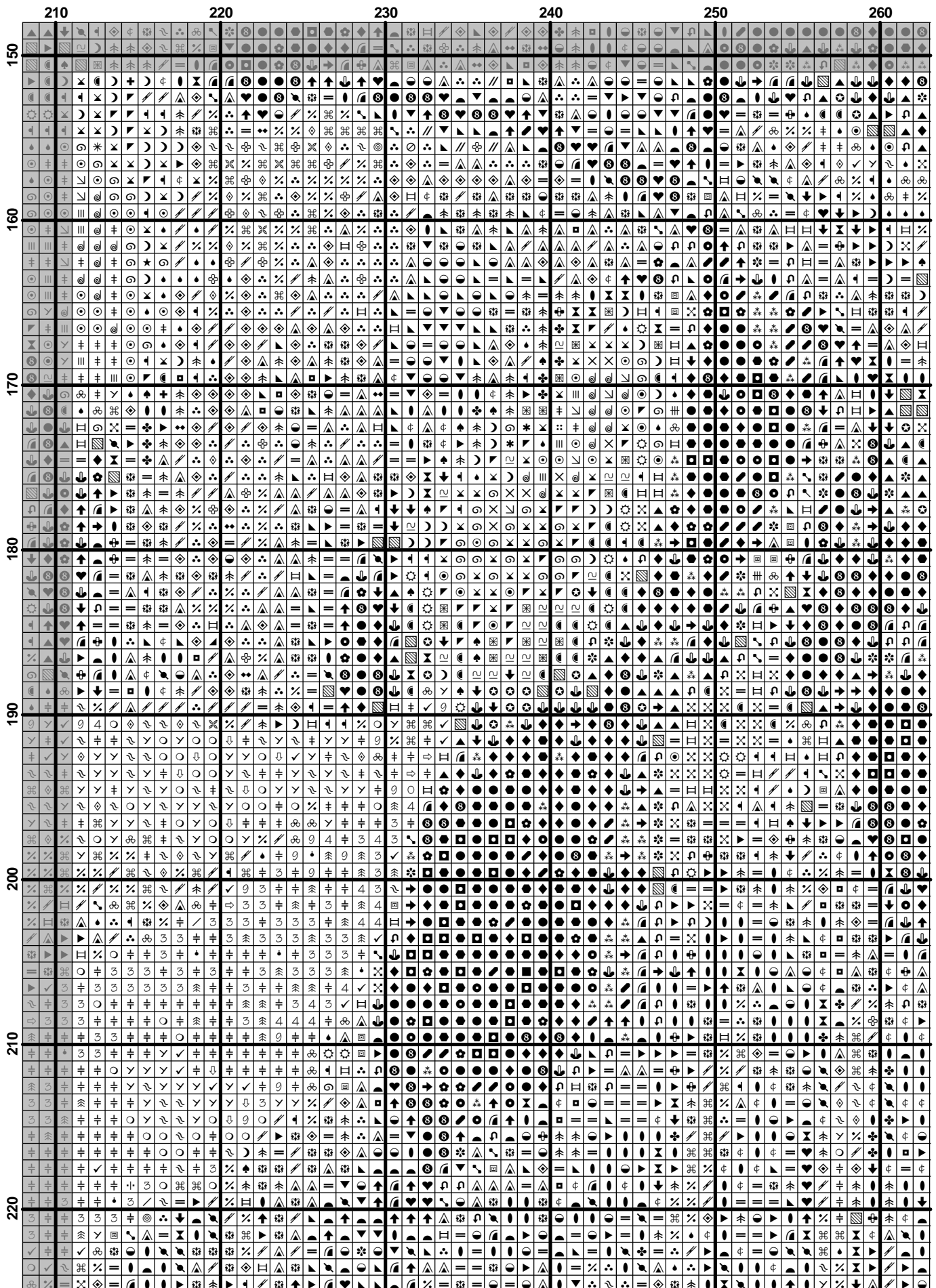


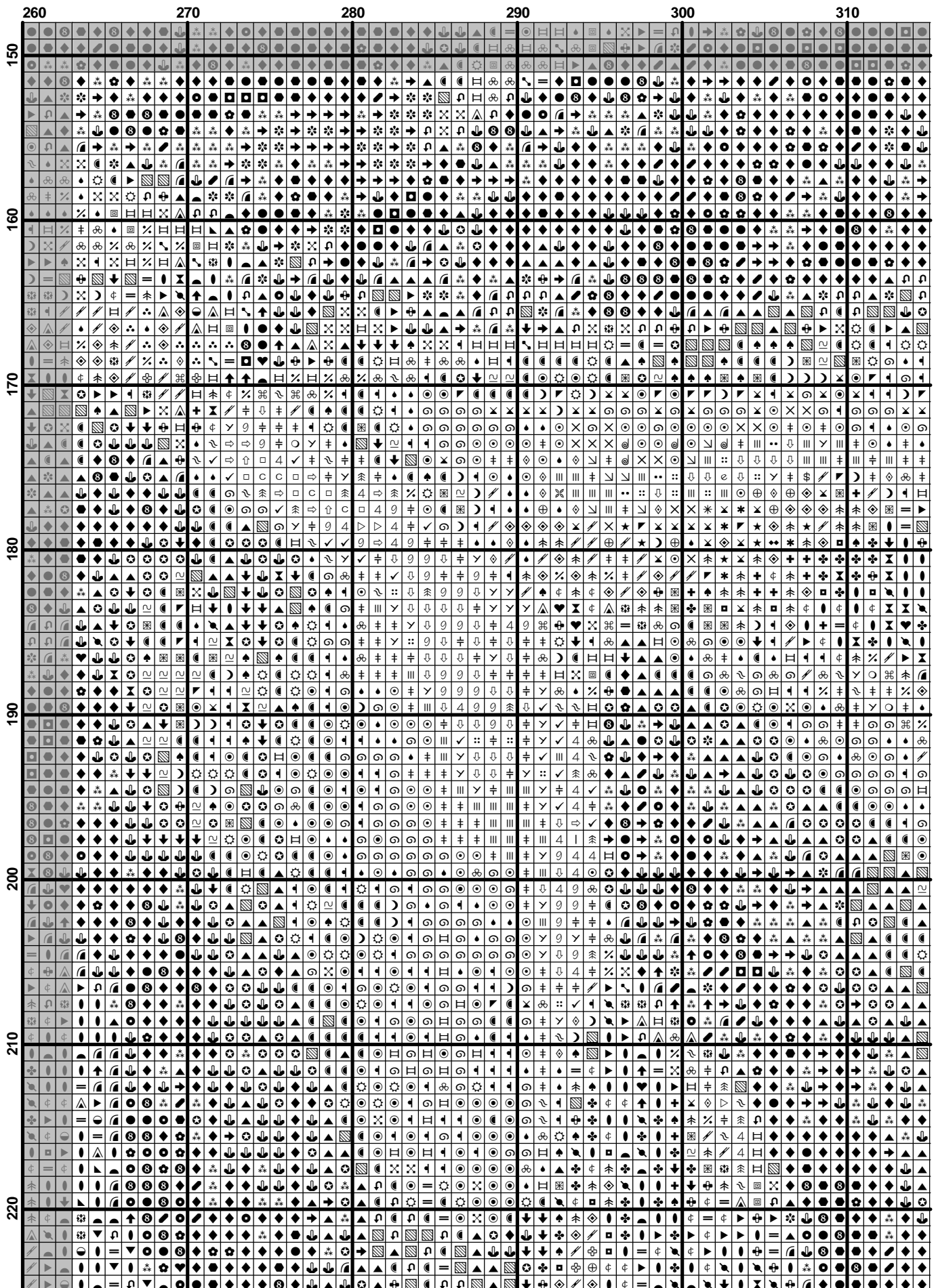


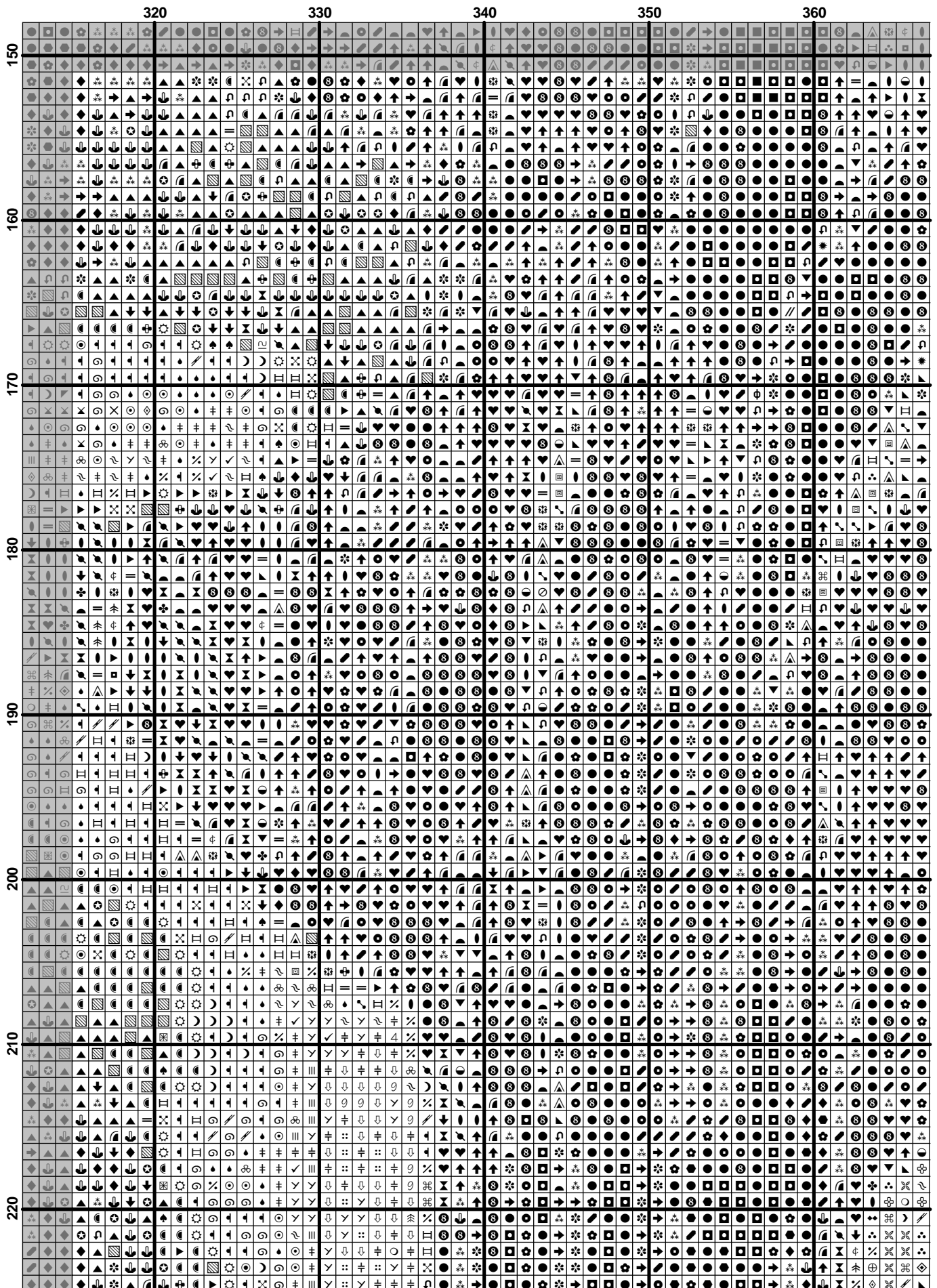


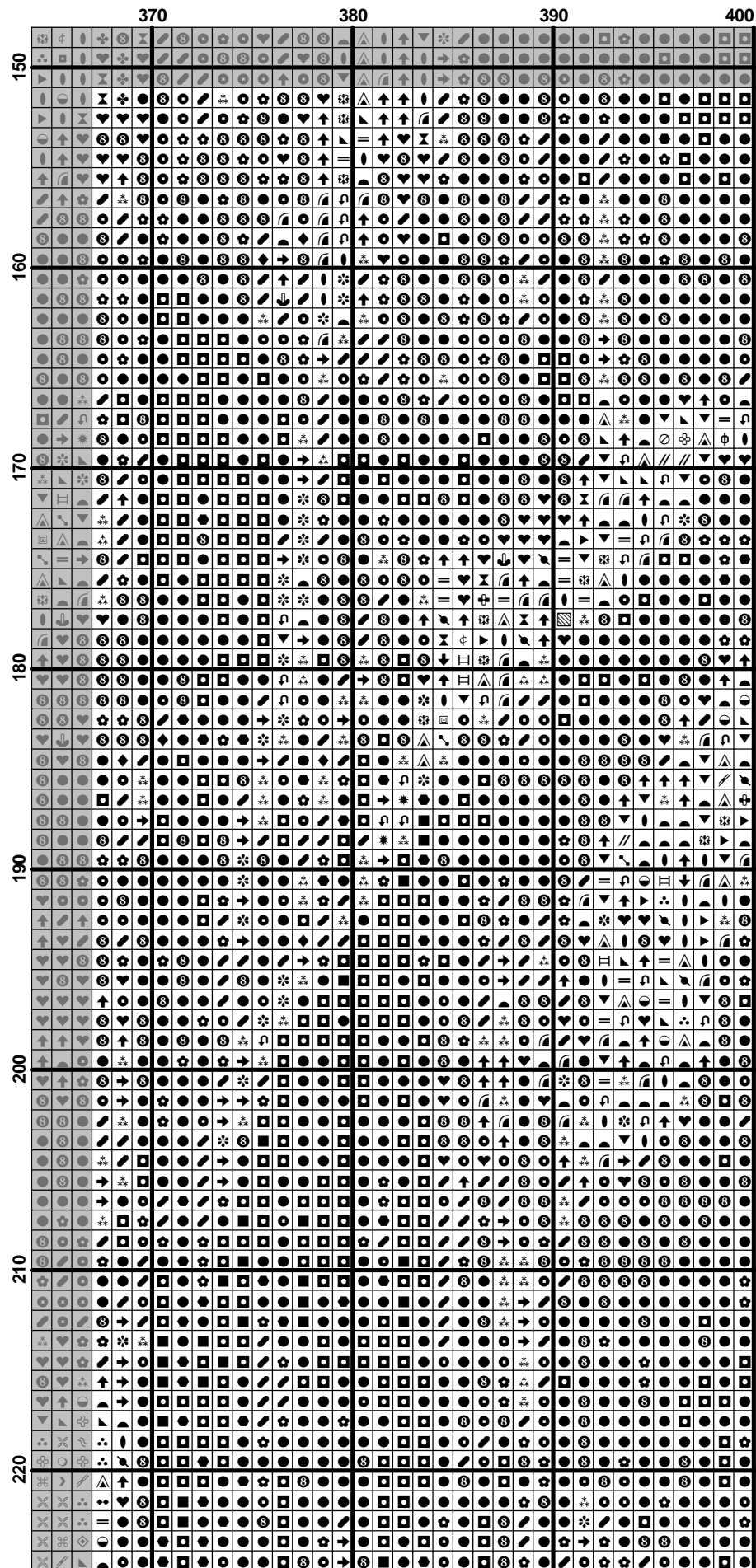
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	160																170																180																190																200																210															
150	[Grid of symbols for row 150, columns 1-160]																[Grid of symbols for row 150, columns 161-320]																[Grid of symbols for row 150, columns 321-480]																[Grid of symbols for row 150, columns 481-640]																[Grid of symbols for row 150, columns 641-800]																[Grid of symbols for row 150, columns 801-960]															
160	[Grid of symbols for row 160, columns 1-160]																[Grid of symbols for row 160, columns 161-320]																[Grid of symbols for row 160, columns 321-480]																[Grid of symbols for row 160, columns 481-640]																[Grid of symbols for row 160, columns 641-800]																[Grid of symbols for row 160, columns 801-960]															
170	[Grid of symbols for row 170, columns 1-160]																[Grid of symbols for row 170, columns 161-320]																[Grid of symbols for row 170, columns 321-480]																[Grid of symbols for row 170, columns 481-640]																[Grid of symbols for row 170, columns 641-800]																[Grid of symbols for row 170, columns 801-960]															
180	[Grid of symbols for row 180, columns 1-160]																[Grid of symbols for row 180, columns 161-320]																[Grid of symbols for row 180, columns 321-480]																[Grid of symbols for row 180, columns 481-640]																[Grid of symbols for row 180, columns 641-800]																[Grid of symbols for row 180, columns 801-960]															
190	[Grid of symbols for row 190, columns 1-160]																[Grid of symbols for row 190, columns 161-320]																[Grid of symbols for row 190, columns 321-480]																[Grid of symbols for row 190, columns 481-640]																[Grid of symbols for row 190, columns 641-800]																[Grid of symbols for row 190, columns 801-960]															
200	[Grid of symbols for row 200, columns 1-160]																[Grid of symbols for row 200, columns 161-320]																[Grid of symbols for row 200, columns 321-480]																[Grid of symbols for row 200, columns 481-640]																[Grid of symbols for row 200, columns 641-800]																[Grid of symbols for row 200, columns 801-960]															
210	[Grid of symbols for row 210, columns 1-160]																[Grid of symbols for row 210, columns 161-320]																[Grid of symbols for row 210, columns 321-480]																[Grid of symbols for row 210, columns 481-640]																[Grid of symbols for row 210, columns 641-800]																[Grid of symbols for row 210, columns 801-960]															
220	[Grid of symbols for row 220, columns 1-160]																[Grid of symbols for row 220, columns 161-320]																[Grid of symbols for row 220, columns 321-480]																[Grid of symbols for row 220, columns 481-640]																[Grid of symbols for row 220, columns 641-800]																[Grid of symbols for row 220, columns 801-960]															









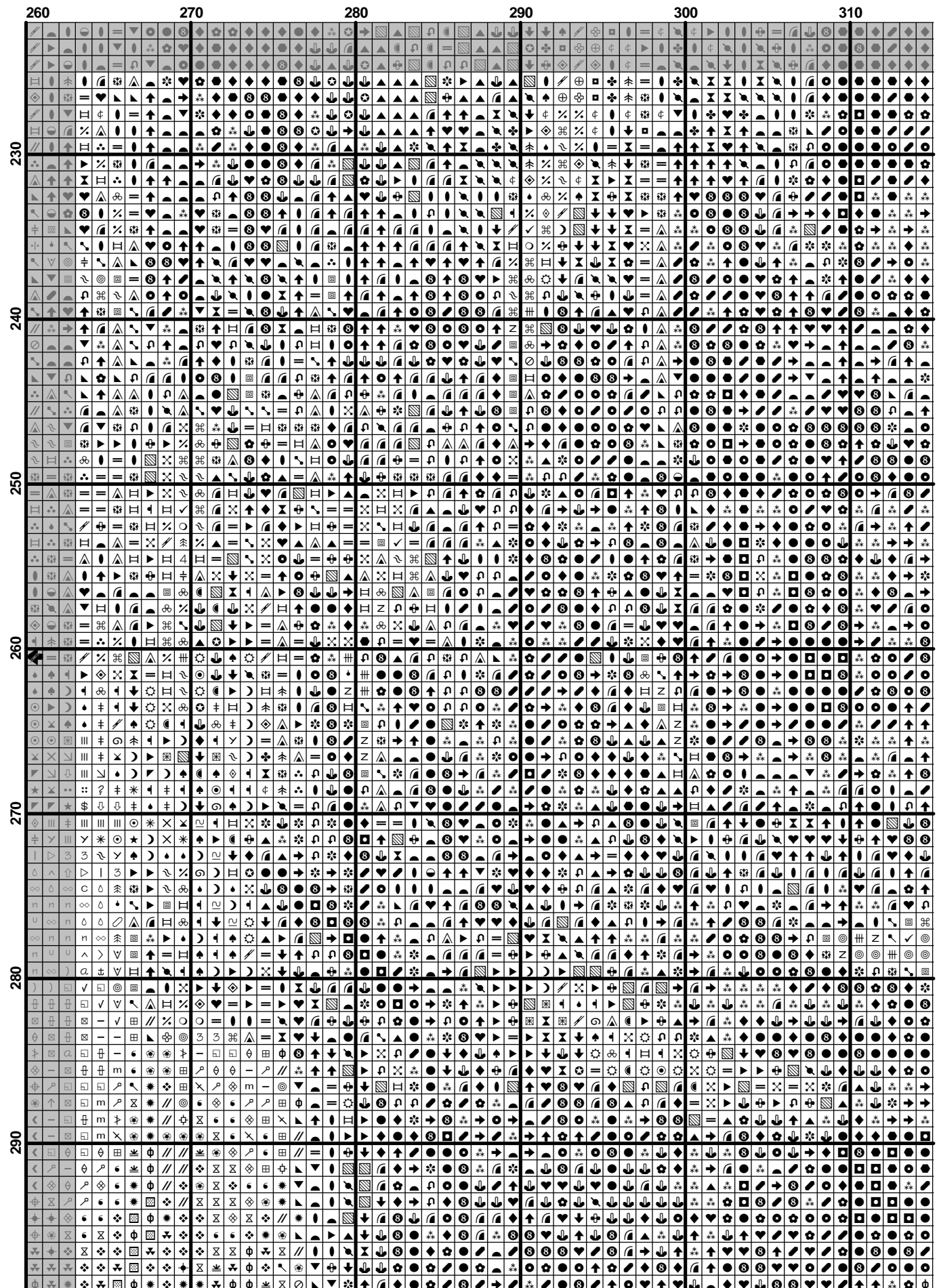
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280
290

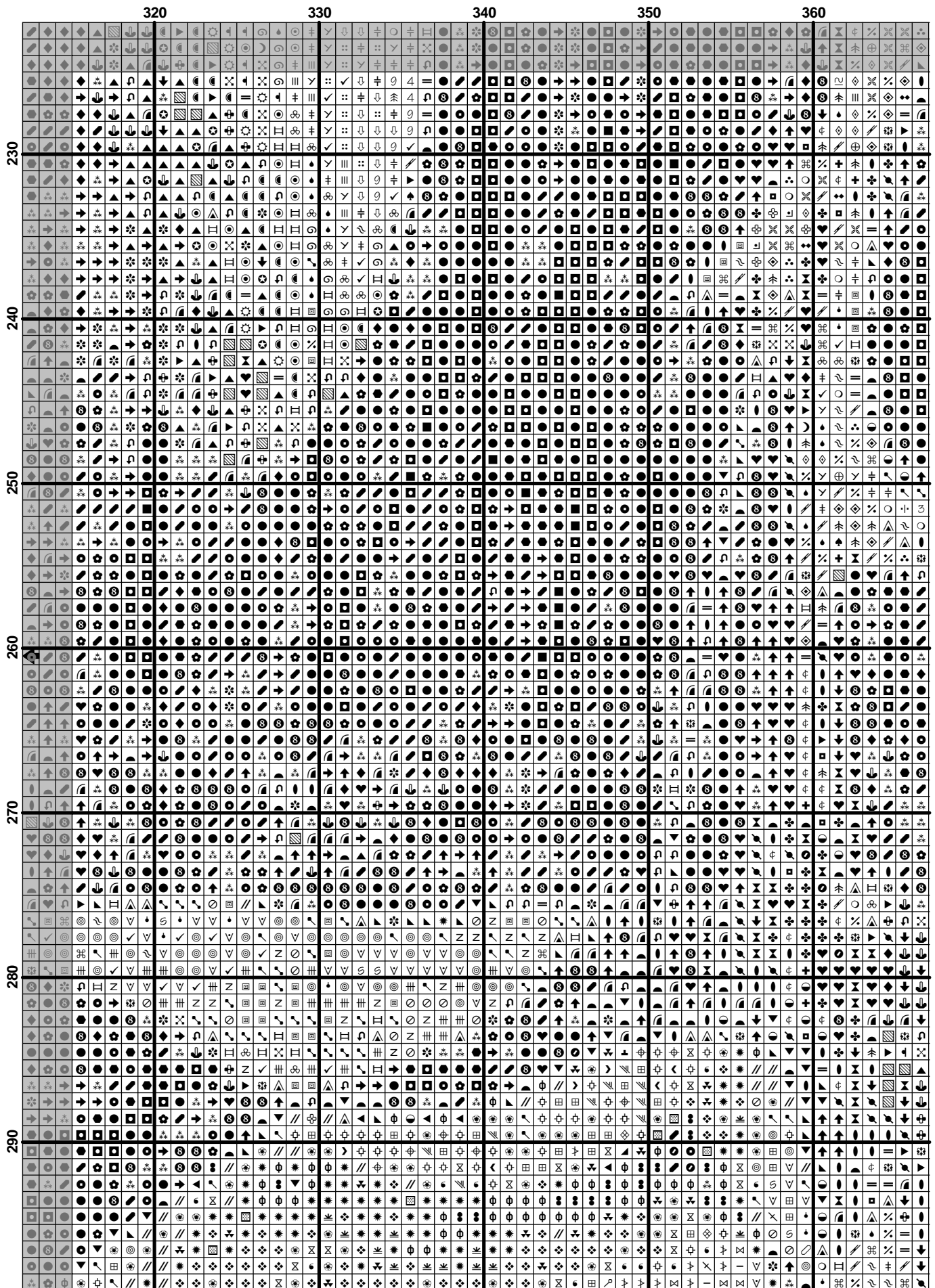
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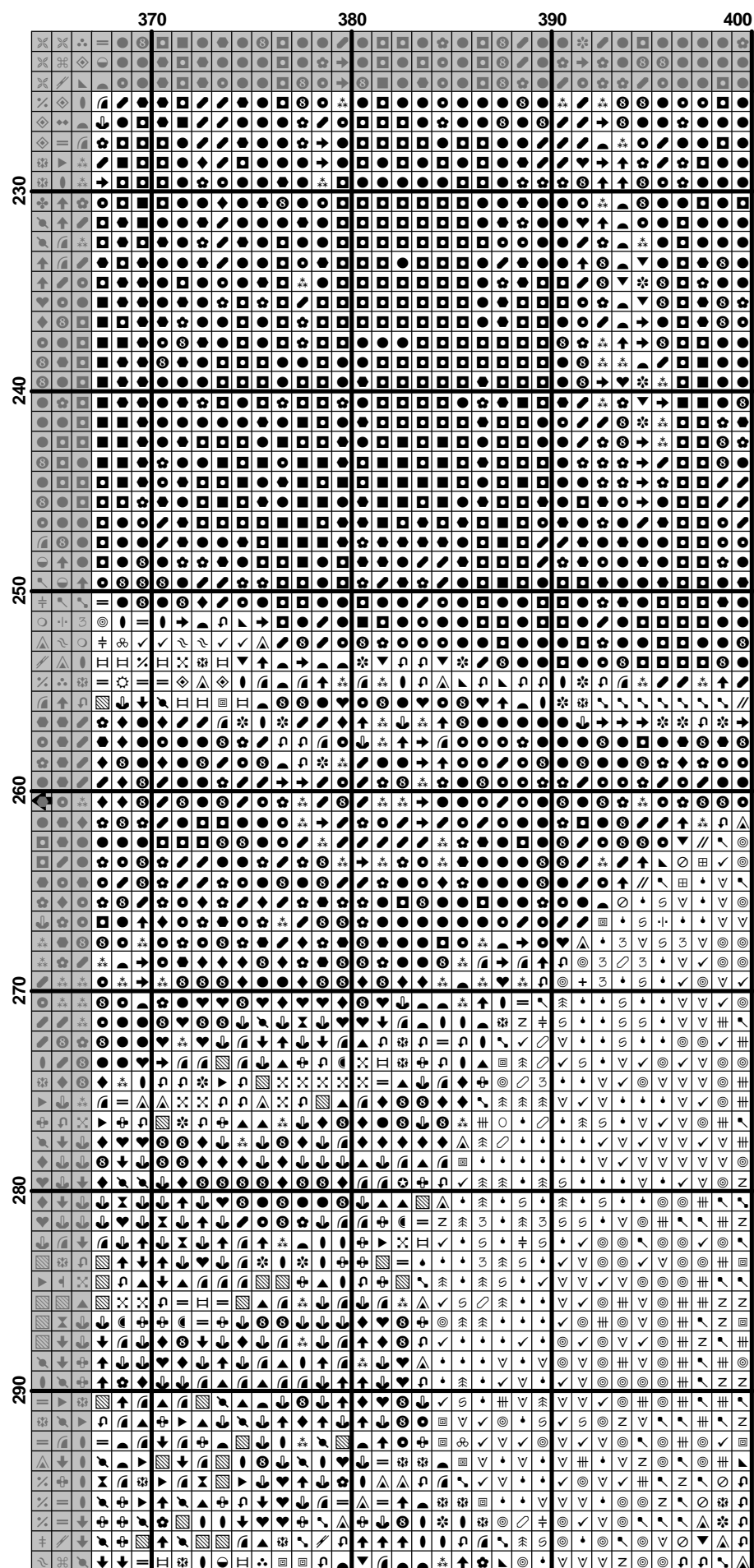
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230
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290

	160	170	180	190	200	210
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280
290

	210	220	230	240	250	260
230	✓	✗	✗	✗	✗	✗
240	✗	✗	✗	✗	✗	✗
250	✗	✗	✗	✗	✗	✗
260	✗	✗	✗	✗	✗	✗
270	✗	✗	✗	✗	✗	✗
280	✗	✗	✗	✗	✗	✗
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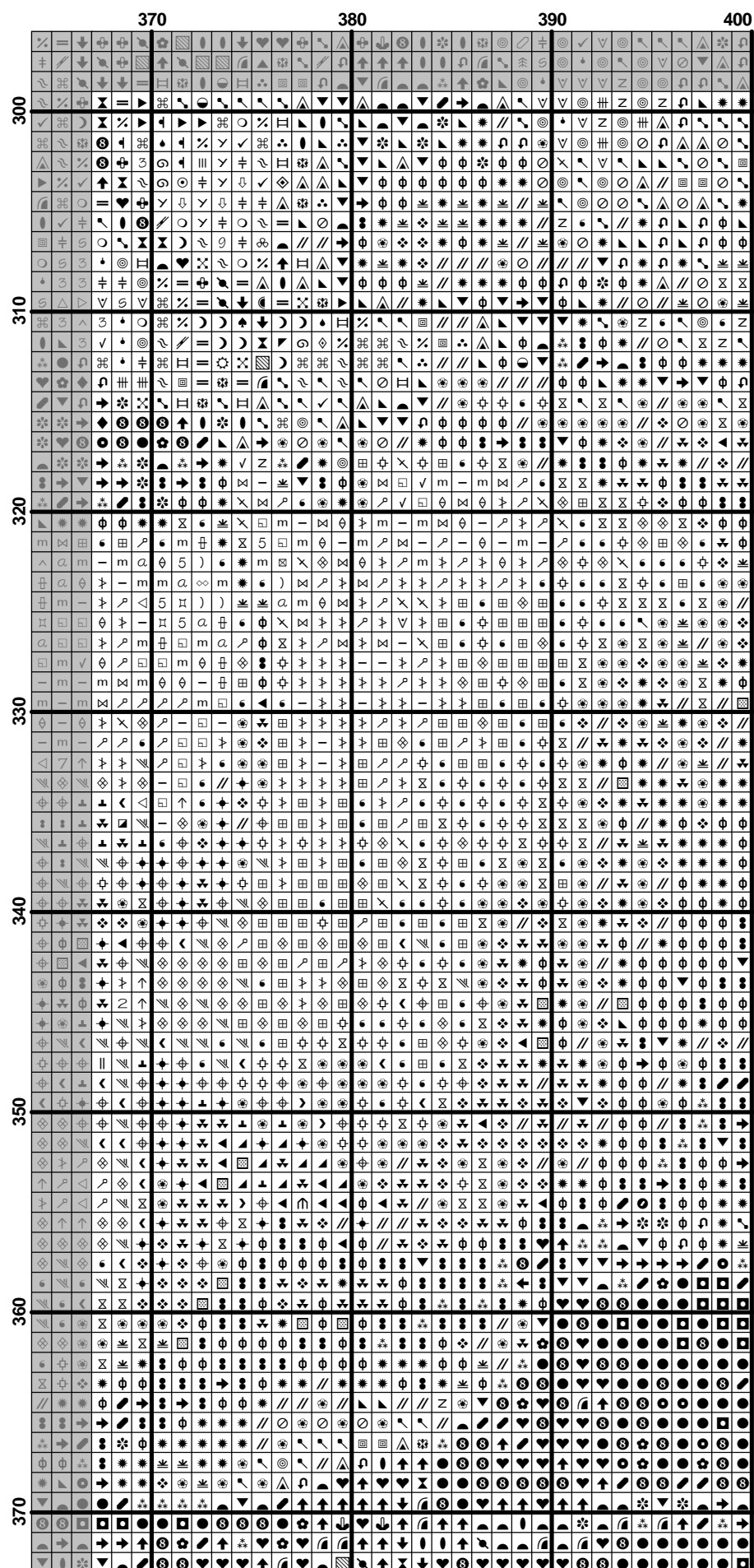
(44)

(45)

(46)

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300						
310						
320						
330						
340						
350						
360						
370						

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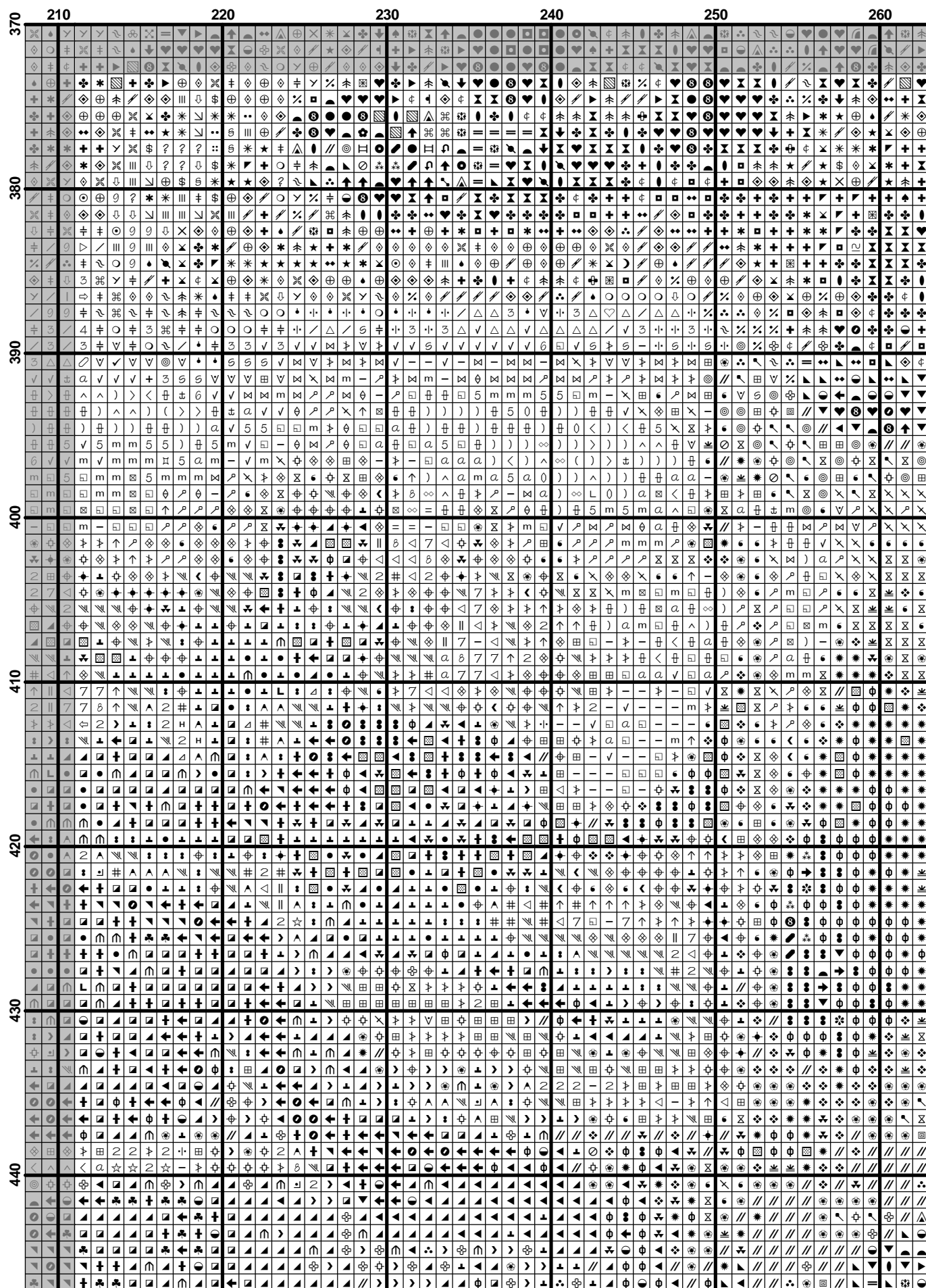


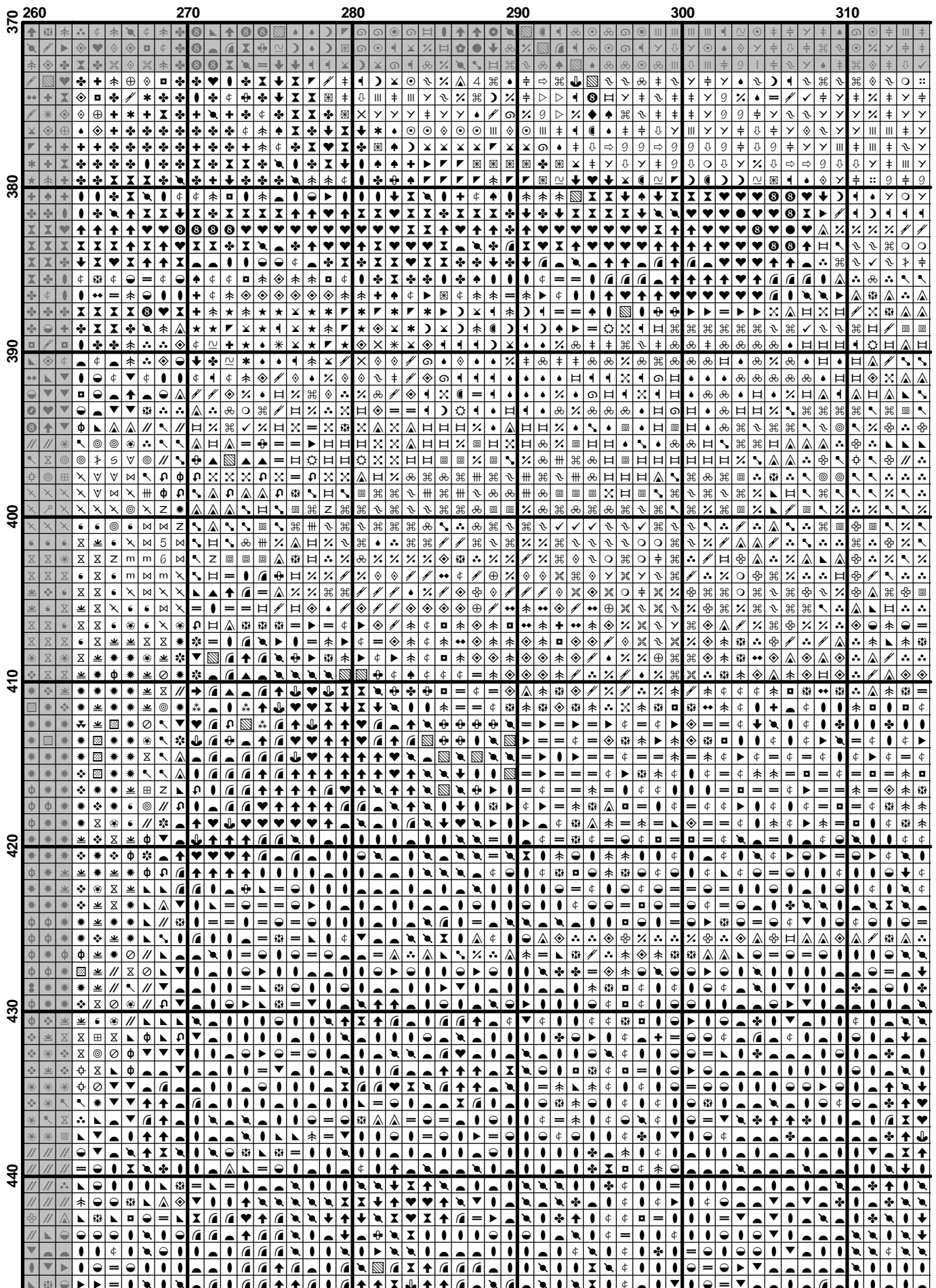
	10										20										30										40										50									
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380	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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410	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250
420	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
430	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350
440	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400

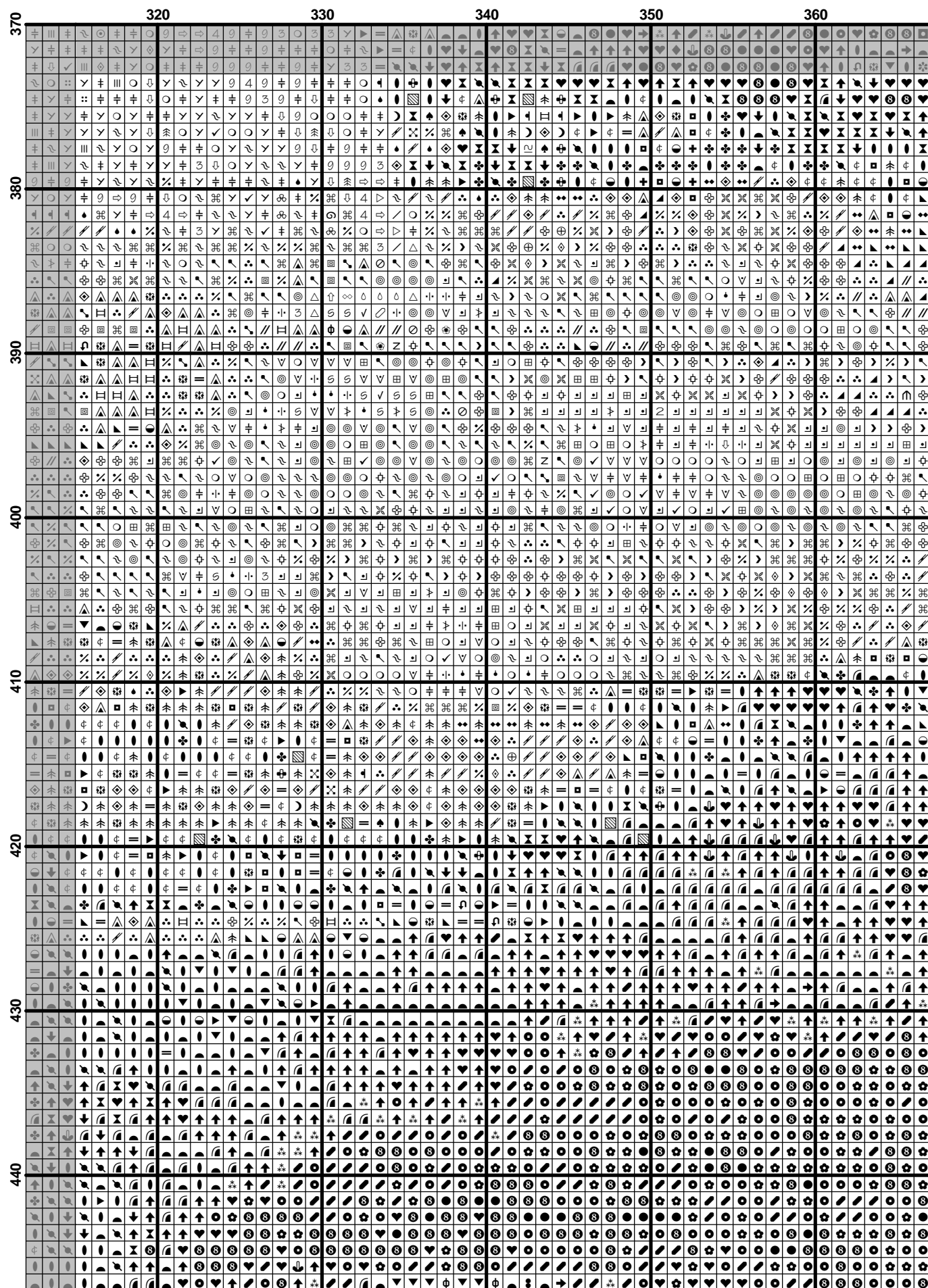
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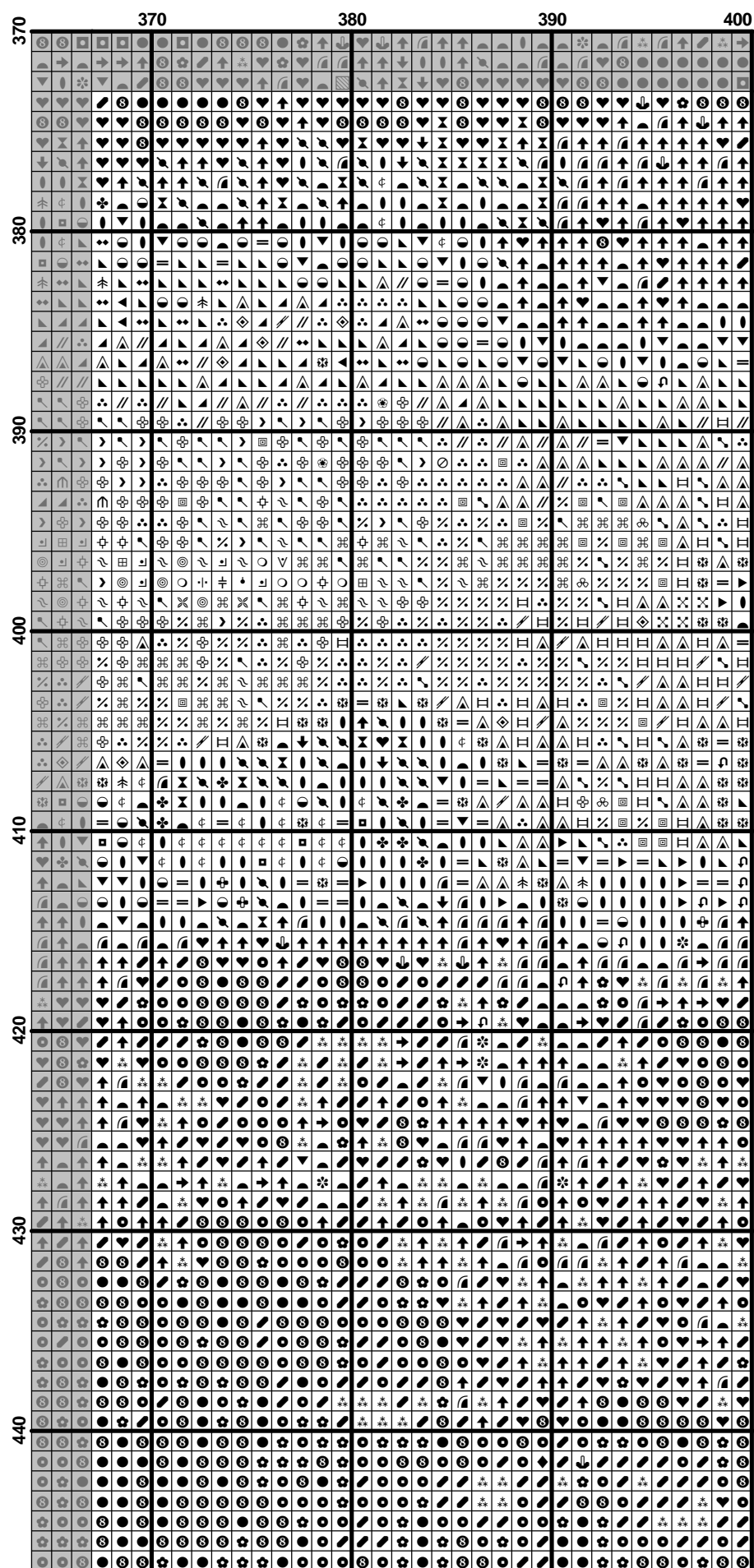
	110	120	130	140	150
370
380
390
400
410
420
430
440

$$(52) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$









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[illegible]

	110										120										130										140										150									
450																																																		
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470																																																		
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