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# 1368 The Bounties of Nature



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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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## The Bounties of Nature

Stitch Count	
Horizontal:	500
Vertical:	306

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:	91	35.67	56	21.85	80	31.21	49	19.12	71	27.75	44	17
Including Margins:	107	42	72	28	96	38	65	26	87	34	60	24
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	127	49.93	78	30.59	106	41.61	65	25.49	53	20.8	32	12.74
Including Margins:	143	56	94	37	122	48	81	32	69	27	48	19
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	50	19.97	31	12.23	49	19.2	30	11.76	47	18.49	29	11.32
Including Margins:	66	26	47	19	65	26	46	18	63	25	45	18
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	45	17.83	28	10.92	42	16.64	26	10.19	39	15.6	24	9.55
Including Margins:	61	24	44	17	58	23	42	17	55	22	40	16

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
u	1	White 1
•	221	Shell Pink-VY DK
▲	317	Pewter Gray
×	350	Coral-MD
×	351	Coral
β	352	Coral-LT
+	355	Terra Cotta-DK
⌘	356	Terra Cotta-MD
2	407	Desert Sand-DK
●	413	Pewter Gray-DK
•	414	Steel Gray-DK
••	420	Hazelnut Brown-DK
e	437	Tan-LT
ι	445	Lemon-LT
⊞	472	Avocado Green-UL LT
▲	580	Moss Green-DK
◀	611	Drab Brown
•	640	Beige Gray-VY DK
≡	680	Old Gold-DK
⇒	725	Topaz
>	726	Topaz-LT
H	732	Olive Green
↑	733	Olive Green-MD
∅	734	Olive Green-LT
•	739	Tan-UL VY LT
<	743	Yellow-MD
^	744	Yellow-Pale
o	745	Yellow-LT Pale
«	746	Off White
c	758	Terra Cotta-VY LT
⊕	783	Topaz-MD
●	830	Golden Olive-DK
◎	832	Golden Olive
::	833	Golden Olive-LT
+	834	Golden Olive-VY LT
◆	838	Beige Brown-VY DK
✱	844	Beaver Brown-UL DK
⊞	892	Carnation-MD
Ⓞ	921	Copper

■	931	Antique Blue-MD
■	934	Black Avocado Green
●	935	Avocado Green-DK
■	937	Avocado Green-MD
●	938	Coffee Brown-UL DK
••	977	Golden Brown-LT
⌘	3012	Khaki Green-MD
⌘	3021	Brown Gray-VY DK
⌘	3032	Mocha Brown-MD
⌘	3041	Antique Violet-MD
⌘	3045	Yellow Beige-DK
=	3046	Yellow Beige-MD
•	3053	Green Gray
◇	3064	Desert Sand
~	3078	Golden Yellow-VY LT
⊕	3328	Salmon-DK
H	3340	Apricot-MD
×	3346	Hunter Green
4	3348	Yellow Green-LT
⊞	3362	Pine Green-DK
•	3363	Pine Green-MD
4	3364	Pine Green
✓	3712	Salmon-MD
⌘	3772	Desert Sand-VY DK
✱	3787	Brown Gray-DK
▲	3790	Beige Gray-UL DK
●	3799	Pewter Gray-VY DK
g	3820	Straw-DK
o	3823	Yellow-UL Pale
◇	3824	Apricot-LT
⊞	3828	Hazelnut Brown
⊞	3829	Old Gold-VY DK
★	3830	Terra Cotta-MD
—	3852	Straw-VY DK
○	3853	Autumn Gold-DK
6	3854	Autumn Gold-MD
L	3856	Mahogany-UL VY LT
↓	3857	Rosewood-DK
♠	3858	Rosewood-MD
?	3864	Mocha Beige-LT

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
⌘	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
⌘	317	Pewter Gray	931	Antique Blue-MD
~	414	Steel Gray-DK	927	Gray Green-LT
■	413	Pewter Gray-DK	3799	Pewter Gray-VY DK
//	317	Pewter Gray	3041	Antique Violet-MD
■	844	Beaver Brown-UL DK	3787	Brown Gray-DK
■	934	Black Avocado Green	938	Coffee Brown-UL DK

8	934	Black Avocado Green	3799	Pewter Gray-VY DK
▷	744	Yellow-Pale	3854	Autumn Gold-MD
♠	934	Black Avocado Green	3021	Brown Gray-VY DK
♣	3021	Brown Gray-VY DK	3781	Mocha Brown-DK
n	746	Off White	3823	Yellow-UL Pale
⚓	352	Coral-LT	3824	Apricot-LT
↑	3823	Yellow-UL Pale	3824	Apricot-LT
\$	611	Drab Brown	832	Golden Olive
¼	356	Terra Cotta-MD	3772	Desert Sand-VY DK
▼	3346	Hunter Green	3787	Brown Gray-DK
›	356	Terra Cotta-MD	420	Hazelnut Brown-DK
↩	472	Avocado Green-UL LT	734	Olive Green-LT
√	704	Chartreuse-BRT	734	Olive Green-LT
✕	935	Avocado Green-DK	3021	Brown Gray-VY DK
▼	3021	Brown Gray-VY DK	3362	Pine Green-DK
⚙	3346	Hunter Green	3362	Pine Green-DK
⊕	611	Drab Brown	3346	Hunter Green
↘	937	Avocado Green-MD	3021	Brown Gray-VY DK
✱	830	Golden Olive-DK	3362	Pine Green-DK
←	935	Avocado Green-DK	937	Avocado Green-MD
▣	830	Golden Olive-DK	937	Avocado Green-MD
↓	937	Avocado Green-MD	3781	Mocha Brown-DK
●	934	Black Avocado Green	935	Avocado Green-DK
♣	3362	Pine Green-DK	3799	Pewter Gray-VY DK
∩	3347	Yellow Green-MD	3363	Pine Green-MD
)	445	Lemon-LT	472	Avocado Green-UL LT
1	1	White 1	746	Off White
	369	Pistachio Green-VY LT	445	Lemon-LT
∞	963	Dusty Rose-UL VY LT	3823	Yellow-UL Pale
⌒	963	Dusty Rose-UL VY LT	3824	Apricot-LT
5	352	Coral-LT	3706	Melon-MD
≡	352	Coral-LT	893	Carnation-LT
√	3712	Salmon-MD	3340	Apricot-MD
§	352	Coral-LT	892	Carnation-MD
≈	351	Coral	352	Coral-LT
‡	351	Coral	3328	Salmon-DK
⊠	351	Coral	3824	Apricot-LT
●	355	Terra Cotta-DK	3830	Terra Cotta-MD
✧	350	Coral-MD	921	Copper
◊	347	Salmon-VY DK	350	Coral-MD
□	745	Yellow-LT Pale	3856	Mahogany-UL VY LT
Φ	355	Terra Cotta-DK	975	Golden Brown-DK
↓	975	Golden Brown-DK	3857	Rosewood-DK
⊙	221	Shell Pink-VY DK	355	Terra Cotta-DK
L	347	Salmon-VY DK	3328	Salmon-DK
↔	3790	Beige Gray-UL DK	3858	Rosewood-MD
⊠	975	Golden Brown-DK	3858	Rosewood-MD
⊠	975	Golden Brown-DK	420	Hazelnut Brown-DK
=	975	Golden Brown-DK	3830	Terra Cotta-MD
↗	3830	Terra Cotta-MD	3858	Rosewood-MD
*	3829	Old Gold-VY DK	3830	Terra Cotta-MD
⌒	356	Terra Cotta-MD	3858	Rosewood-MD
◎	221	Shell Pink-VY DK	3828	Hazelnut Brown
❖	987	Forest Green-DK	645	Beaver Gray-VY DK
7	734	Olive Green-LT	833	Golden Olive-LT
	704	Chartreuse-BRT	733	Olive Green-MD
^	832	Golden Olive	3347	Yellow Green-MD
#	733	Olive Green-MD	3347	Yellow Green-MD
◇	921	Copper	3853	Autumn Gold-DK

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✱	3363	Pine Green-MD	3787	Brown Gray-DK
∨	726	Topaz-LT	472	Avocado Green-UL LT
:	726	Topaz-LT	734	Olive Green-LT
✕	355	Terra Cotta-DK	3829	Old Gold-VY DK
†	221	Shell Pink-VY DK	975	Golden Brown-DK
►	420	Hazelnut Brown-DK	3857	Rosewood-DK
☐	977	Golden Brown-LT	3820	Straw-DK
✕	368	Pistachio Green-LT	645	Beaver Gray-VY DK
⊕	3363	Pine Green-MD	640	Beige Gray-VY DK
*	645	Beaver Gray-VY DK	3362	Pine Green-DK
☺	830	Golden Olive-DK	3781	Mocha Brown-DK
➔	3781	Mocha Brown-DK	3857	Rosewood-DK
☺	3781	Mocha Brown-DK	838	Beige Brown-VY DK
†	732	Olive Green	3790	Beige Gray-UL DK
◀	830	Golden Olive-DK	975	Golden Brown-DK
▲	830	Golden Olive-DK	3857	Rosewood-DK
z	645	Beaver Gray-VY DK	3032	Mocha Brown-MD
III	522	Fern Green	3032	Mocha Brown-MD
☼	640	Beige Gray-VY DK	3790	Beige Gray-UL DK
☺	640	Beige Gray-VY DK	3032	Mocha Brown-MD
✱	987	Forest Green-DK	3362	Pine Green-DK
☺	935	Avocado Green-DK	3362	Pine Green-DK
☺	987	Forest Green-DK	3363	Pine Green-MD
✱	987	Forest Green-DK	3799	Pewter Gray-VY DK
●	413	Pewter Gray-DK	3021	Brown Gray-VY DK
3	3348	Yellow Green-LT	368	Pistachio Green-LT
◁	3045	Yellow Beige-DK	834	Golden Olive-VY LT
m	977	Golden Brown-LT	3045	Yellow Beige-DK
II	977	Golden Brown-LT	834	Golden Olive-VY LT
/	437	Tan-LT	3348	Yellow Green-LT
§	356	Terra Cotta-MD	3045	Yellow Beige-DK
..	356	Terra Cotta-MD	977	Golden Brown-LT
†	3712	Salmon-MD	977	Golden Brown-LT
☺	725	Topaz	3854	Autumn Gold-MD
▲	921	Copper	347	Salmon-VY DK
✱	355	Terra Cotta-DK	356	Terra Cotta-MD
♥	938	Coffee Brown-UL DK	3857	Rosewood-DK
☆	721	Orange Spice-MD	725	Topaz
○	317	Pewter Gray	413	Pewter Gray-DK
△	758	Terra Cotta-VY LT	3046	Yellow Beige-MD
☺	732	Olive Green	832	Golden Olive
☐	732	Olive Green	3347	Yellow Green-MD
☺	733	Olive Green-MD	3012	Khaki Green-MD
☺	3772	Desert Sand-VY DK	3858	Rosewood-MD
☐	326	Rose-VY DK	355	Terra Cotta-DK
■	326	Rose-VY DK	347	Salmon-VY DK
III	721	Orange Spice-MD	3853	Autumn Gold-DK
τ	721	Orange Spice-MD	350	Coral-MD
↑	221	Shell Pink-VY DK	3857	Rosewood-DK
(	743	Yellow-MD	745	Yellow-LT Pale
a	743	Yellow-MD	3853	Autumn Gold-DK
✓	721	Orange Spice-MD	3340	Apricot-MD
◇	725	Topaz	3340	Apricot-MD
○	822	Beige Gray-LT	648	Beaver Gray-LT
♥	369	Pistachio Green-VY LT	3046	Yellow Beige-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	496	195	472	185	425	167
221	Shell Pink-VY DK	522	205	497	195	448	176
317	Pewter Gray	286	112	272	107	245	96
326	Rose-VY DK	60	23	57	22	51	20
347	Salmon-VY DK	230	90	219	86	197	77
350	Coral-MD	208	81	198	77	179	70
351	Coral	323	127	308	121	277	109
352	Coral-LT	279	109	266	104	239	94
355	Terra Cotta-DK	785	309	747	294	672	264
356	Terra Cotta-MD	397	156	378	148	340	133
368	Pistachio Green-LT	61	24	58	22	53	20
369	Pistachio Green-VY LT	95	37	91	35	82	32
407	Desert Sand-DK	53	20	51	20	45	17
413	Pewter Gray-DK	322	126	306	120	276	108
414	Steel Gray-DK	97	38	92	36	83	32
420	Hazelnut Brown-DK	302	118	288	113	259	101
437	Tan-LT	117	46	112	44	100	39
445	Lemon-LT	185	72	176	69	159	62
472	Avocado Green-UL LT	187	73	179	70	161	63
522	Fern Green	53	20	51	20	46	18
580	Moss Green-DK	338	133	322	126	290	114
611	Drab Brown	541	212	515	202	463	182
640	Beige Gray-VY DK	618	243	588	231	529	208
645	Beaver Gray-VY DK	402	158	383	150	344	135
648	Beaver Gray-LT	33	12	32	12	29	11
680	Old Gold-DK	136	53	129	50	116	45
704	Chartreuse-BRT	81	31	77	30	69	27
721	Orange Spice-MD	128	50	122	48	110	43
725	Topaz	349	137	333	131	299	117
726	Topaz-LT	151	59	143	56	129	50
732	Olive Green	601	236	572	225	515	202
733	Olive Green-MD	269	105	256	100	230	90
734	Olive Green-LT	288	113	275	108	247	97
739	Tan-UL VY LT	76	29	72	28	65	25
743	Yellow-MD	197	77	188	74	169	66
744	Yellow-Pale	183	72	174	68	157	61
745	Yellow-LT Pale	160	62	152	59	137	53
746	Off White	529	208	504	198	453	178
758	Terra Cotta-VY LT	69	27	65	25	59	23
783	Topaz-MD	102	40	97	38	87	34
822	Beige Gray-LT	33	12	32	12	29	11
830	Golden Olive-DK	1323	520	1260	496	1134	446
832	Golden Olive	266	104	254	100	228	89
833	Golden Olive-LT	155	61	147	57	133	52
834	Golden Olive-VY LT	264	103	252	99	226	88
838	Beige Brown-VY DK	259	101	247	97	222	87
844	Beaver Brown-UL DK	553	217	527	207	474	186
892	Carnation-MD	120	47	115	45	103	40
893	Carnation-LT	21	8	20	7	18	7
921	Copper	303	119	289	113	260	102
927	Gray Green-LT	24	9	23	9	21	8
931	Antique Blue-MD	71	27	68	26	61	24
934	Black Avocado Green	5625	2214	5357	2109	4822	1898



935	Avocado Green-DK	2121	835	2020	795	1818	715
937	Avocado Green-MD	1368	538	1302	512	1172	461
938	Coffee Brown-UL DK	888	349	846	333	761	299
963	Dusty Rose-UL VY LT	63	24	60	23	54	21
975	Golden Brown-DK	755	297	719	283	647	254
977	Golden Brown-LT	299	117	284	111	256	100
987	Forest Green-DK	326	128	310	122	279	109
3012	Khaki Green-MD	323	127	307	120	276	108
3021	Brown Gray-VY DK	2378	936	2265	891	2039	802
3032	Mocha Brown-MD	486	191	463	182	417	164
3041	Antique Violet-MD	77	30	73	28	66	25
3045	Yellow Beige-DK	239	94	227	89	205	80
3046	Yellow Beige-MD	202	79	193	75	173	68
3053	Green Gray	58	22	56	22	50	19
3064	Desert Sand	54	21	51	20	46	18
3078	Golden Yellow-VY LT	160	62	153	60	137	53
3328	Salmon-DK	470	185	447	175	402	158
3340	Apricot-MD	155	61	147	57	132	51
3346	Hunter Green	1060	417	1010	397	909	357
3347	Yellow Green-MD	349	137	332	130	299	117
3348	Yellow Green-LT	126	49	120	47	108	42
3362	Pine Green-DK	2730	1074	2600	1023	2340	921
3363	Pine Green-MD	404	159	385	151	347	136
3364	Pine Green	80	31	76	29	68	26
3706	Melon-MD	43	16	41	16	37	14
3712	Salmon-MD	212	83	202	79	181	71
3772	Desert Sand-VY DK	168	66	160	62	144	56
3781	Mocha Brown-DK	847	333	806	317	726	285
3787	Brown Gray-DK	1481	583	1411	555	1270	500
3790	Beige Gray-UL DK	708	278	675	265	607	238
3799	Pewter Gray-VY DK	1624	639	1546	608	1392	548
3820	Straw-DK	134	52	128	50	115	45
3823	Yellow-UL Pale	386	151	368	144	331	130
3824	Apricot-LT	263	103	251	98	226	88
3828	Hazelnut Brown	170	66	162	63	146	57
3829	Old Gold-VY DK	135	53	128	50	115	45
3830	Terra Cotta-MD	547	215	521	205	469	184
3852	Straw-VY DK	34	13	33	12	29	11
3853	Autumn Gold-DK	185	72	176	69	159	62
3854	Autumn Gold-MD	178	70	170	66	153	60
3856	Mahogany-UL VY LT	80	31	76	29	68	26
3857	Rosewood-DK	911	358	868	341	781	307
3858	Rosewood-MD	459	180	437	172	394	155
3864	Mocha Beige-LT	64	25	61	24	55	21

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	765	301	638	251	319	125
221	Shell Pink-VY DK	806	317	672	264	336	132
317	Pewter Gray	441	173	368	144	184	72
326	Rose-VY DK	92	36	77	30	38	15
347	Salmon-VY DK	355	139	296	116	148	58
350	Coral-MD	322	126	269	105	134	53
351	Coral	499	196	416	164	208	82
352	Coral-LT	430	169	359	141	179	71



355	Terra Cotta-DK	1210	475	1008	396	504	198
356	Terra Cotta-MD	612	239	510	200	255	100
368	Pistachio Green-LT	95	36	80	30	40	15
369	Pistachio Green-VY LT	148	58	123	48	62	24
407	Desert Sand-DK	81	31	68	26	34	13
413	Pewter Gray-DK	497	194	414	162	207	81
414	Steel Gray-DK	149	58	125	48	62	24
420	Hazelnut Brown-DK	466	182	389	152	194	76
437	Tan-LT	180	70	150	59	75	29
445	Lemon-LT	286	112	239	93	119	47
472	Avocado Green-UL LT	290	113	242	95	121	47
522	Fern Green	83	32	69	27	35	14
580	Moss Green-DK	522	205	435	171	218	86
611	Drab Brown	833	328	695	273	347	137
640	Beige Gray-VY DK	952	374	794	312	397	156
645	Beaver Gray-VY DK	619	243	516	203	258	101
648	Beaver Gray-LT	52	20	44	17	22	8
680	Old Gold-DK	209	81	174	68	87	34
704	Chartreuse-BRT	124	49	104	41	52	20
721	Orange Spice-MD	198	77	165	65	83	32
725	Topaz	538	211	449	176	224	88
726	Topaz-LT	232	90	194	75	97	38
732	Olive Green	927	364	773	303	386	152
733	Olive Green-MD	414	162	345	135	173	68
734	Olive Green-LT	445	175	371	146	185	73
739	Tan-UL VY LT	117	45	98	38	49	19
743	Yellow-MD	304	119	254	99	127	50
744	Yellow-Pale	283	110	236	92	118	46
745	Yellow-LT Pale	247	95	206	80	103	40
746	Off White	815	320	680	267	340	134
758	Terra Cotta-VY LT	106	41	89	35	44	17
783	Topaz-MD	157	61	131	51	65	26
822	Beige Gray-LT	52	20	44	17	22	8
830	Golden Olive-DK	2041	803	1701	669	851	335
832	Golden Olive	410	160	342	134	171	67
833	Golden Olive-LT	239	94	200	78	100	39
834	Golden Olive-VY LT	407	158	339	132	170	66
838	Beige Brown-VY DK	400	157	333	131	167	65
844	Beaver Brown-UL DK	853	335	711	279	356	140
892	Carnation-MD	185	72	155	60	77	30
893	Carnation-LT	32	13	27	11	14	5
921	Copper	468	184	390	153	195	77
927	Gray Green-LT	38	14	32	12	16	6
931	Antique Blue-MD	110	43	92	36	46	18
934	Black Avocado Green	8680	3416	7233	2847	3617	1424
935	Avocado Green-DK	3272	1287	2727	1073	1364	536
937	Avocado Green-MD	2110	830	1758	692	879	346
938	Coffee Brown-UL DK	1370	538	1142	449	571	224
963	Dusty Rose-UL VY LT	97	38	81	32	41	16
975	Golden Brown-DK	1165	457	971	381	485	191
977	Golden Brown-LT	461	180	384	150	192	75
987	Forest Green-DK	502	196	419	164	209	82
3012	Khaki Green-MD	497	194	414	162	207	81
3021	Brown Gray-VY DK	3670	1444	3059	1203	1529	602
3032	Mocha Brown-MD	751	295	626	246	313	123
3041	Antique Violet-MD	119	45	99	38	50	19
3045	Yellow Beige-DK	369	144	308	120	154	60
3046	Yellow Beige-MD	311	122	260	102	130	51
3053	Green Gray	90	34	75	29	38	14

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3064	Desert Sand	83	32	69	27	35	14
3078	Golden Yellow-VY LT	247	95	206	80	103	40
3328	Salmon-DK	724	284	603	237	302	119
3340	Apricot-MD	238	92	198	77	99	38
3346	Hunter Green	1636	643	1364	536	682	268
3347	Yellow Green-MD	538	211	449	176	224	88
3348	Yellow Green-LT	194	76	162	63	81	32
3362	Pine Green-DK	4212	1658	3510	1382	1755	691
3363	Pine Green-MD	625	245	521	204	260	102
3364	Pine Green	122	47	102	39	51	20
3706	Melon-MD	67	25	56	21	28	11
3712	Salmon-MD	326	128	272	107	136	53
3772	Desert Sand-VY DK	259	101	216	84	108	42
3781	Mocha Brown-DK	1307	513	1089	428	545	214
3787	Brown Gray-DK	2286	900	1905	750	953	375
3790	Beige Gray-UL DK	1093	428	911	357	455	179
3799	Pewter Gray-VY DK	2506	986	2088	822	1044	411
3820	Straw-DK	207	81	173	68	86	34
3823	Yellow-UL Pale	596	234	497	195	248	98
3824	Apricot-LT	407	158	339	132	170	66
3828	Hazelnut Brown	263	103	219	86	110	43
3829	Old Gold-VY DK	207	81	173	68	86	34
3830	Terra Cotta-MD	844	331	704	276	352	138
3852	Straw-VY DK	52	20	44	17	22	8
3853	Autumn Gold-DK	286	112	239	93	119	47
3854	Autumn Gold-MD	275	108	230	90	115	45
3856	Mahogany-UL VY LT	122	47	102	39	51	20
3857	Rosewood-DK	1406	553	1172	461	586	230
3858	Rosewood-MD	709	279	591	233	296	116
3864	Mocha Beige-LT	99	38	83	32	41	16

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	306	120	294	116	283	111
221	Shell Pink-VY DK	323	127	310	122	299	117
317	Pewter Gray	176	69	170	66	163	64
326	Rose-VY DK	37	14	35	14	34	13
347	Salmon-VY DK	142	55	136	53	131	51
350	Coral-MD	129	50	124	48	119	47
351	Coral	199	78	192	75	185	73
352	Coral-LT	172	68	165	65	159	63
355	Terra Cotta-DK	484	190	465	183	448	176
356	Terra Cotta-MD	245	96	235	92	227	89
368	Pistachio Green-LT	38	14	37	14	35	13
369	Pistachio Green-VY LT	59	23	57	22	55	21
407	Desert Sand-DK	32	12	31	12	30	11
413	Pewter Gray-DK	199	78	191	75	184	72
414	Steel Gray-DK	60	23	57	22	55	21
420	Hazelnut Brown-DK	186	73	179	70	173	67
437	Tan-LT	72	28	69	27	67	26
445	Lemon-LT	114	45	110	43	106	41
472	Avocado Green-UL LT	116	45	111	44	107	42
522	Fern Green	33	13	32	12	31	12
580	Moss Green-DK	209	82	201	79	193	76
611	Drab Brown	333	131	321	126	309	121

640	Beige Gray-VY DK	381	150	366	144	353	139
645	Beaver Gray-VY DK	248	97	238	93	229	90
648	Beaver Gray-LT	21	8	20	8	19	7
680	Old Gold-DK	84	32	80	31	77	30
704	Chartreuse-BRT	50	19	48	19	46	18
721	Orange Spice-MD	79	31	76	30	73	29
725	Topaz	215	84	207	81	199	78
726	Topaz-LT	93	36	89	35	86	33
732	Olive Green	371	145	357	140	343	135
733	Olive Green-MD	166	65	159	62	153	60
734	Olive Green-LT	178	70	171	67	165	65
739	Tan-UL VY LT	47	18	45	17	43	17
743	Yellow-MD	122	48	117	46	113	44
744	Yellow-Pale	113	44	109	42	105	41
745	Yellow-LT Pale	99	38	95	37	91	35
746	Off White	326	128	314	123	302	119
758	Terra Cotta-VY LT	42	17	41	16	39	15
783	Topaz-MD	63	24	60	24	58	23
822	Beige Gray-LT	21	8	20	8	19	7
830	Golden Olive-DK	816	321	785	309	756	297
832	Golden Olive	164	64	158	62	152	59
833	Golden Olive-LT	96	37	92	36	89	35
834	Golden Olive-VY LT	163	63	156	61	151	59
838	Beige Brown-VY DK	160	63	154	60	148	58
844	Beaver Brown-UL DK	341	134	328	129	316	124
892	Carnation-MD	74	29	71	28	69	27
893	Carnation-LT	13	5	12	5	12	5
921	Copper	187	73	180	71	173	68
927	Gray Green-LT	15	6	15	6	14	5
931	Antique Blue-MD	44	17	42	17	41	16
934	Black Avocado Green	3472	1367	3338	1314	3215	1265
935	Avocado Green-DK	1309	515	1259	495	1212	477
937	Avocado Green-MD	844	332	811	319	781	307
938	Coffee Brown-UL DK	548	215	527	207	507	199
963	Dusty Rose-UL VY LT	39	15	37	15	36	14
975	Golden Brown-DK	466	183	448	176	431	169
977	Golden Brown-LT	184	72	177	69	171	67
987	Forest Green-DK	201	78	193	75	186	73
3012	Khaki Green-MD	199	78	191	75	184	72
3021	Brown Gray-VY DK	1468	577	1412	555	1359	535
3032	Mocha Brown-MD	300	118	289	114	278	109
3041	Antique Violet-MD	48	18	46	17	44	17
3045	Yellow Beige-DK	148	58	142	55	137	53
3046	Yellow Beige-MD	125	49	120	47	115	45
3053	Green Gray	36	14	35	13	33	13
3064	Desert Sand	33	13	32	12	31	12
3078	Golden Yellow-VY LT	99	38	95	37	91	35
3328	Salmon-DK	289	114	278	109	268	105
3340	Apricot-MD	95	37	91	35	88	34
3346	Hunter Green	654	257	629	247	606	238
3347	Yellow Green-MD	215	84	207	81	199	78
3348	Yellow Green-LT	78	30	75	29	72	28
3362	Pine Green-DK	1685	663	1620	638	1560	614
3363	Pine Green-MD	250	98	240	94	231	91
3364	Pine Green	49	19	47	18	45	17
3706	Melon-MD	27	10	26	10	25	9
3712	Salmon-MD	130	51	125	49	121	47
3772	Desert Sand-VY DK	104	40	100	39	96	37
3781	Mocha Brown-DK	523	205	503	197	484	190

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3787	Brown Gray-DK	914	360	879	346	847	333
3790	Beige Gray-UL DK	437	171	420	165	405	159
3799	Pewter Gray-VY DK	1002	395	964	379	928	365
3820	Straw-DK	83	32	80	31	77	30
3823	Yellow-UL Pale	238	94	229	90	221	87
3824	Apricot-LT	163	63	156	61	151	59
3828	Hazelnut Brown	105	41	101	39	97	38
3829	Old Gold-VY DK	83	32	80	31	77	30
3830	Terra Cotta-MD	338	132	325	127	313	123
3852	Straw-VY DK	21	8	20	8	19	7
3853	Autumn Gold-DK	114	45	110	43	106	41
3854	Autumn Gold-MD	110	43	106	42	102	40
3856	Mahogany-UL VY LT	49	19	47	18	45	17
3857	Rosewood-DK	562	221	541	213	521	205
3858	Rosewood-MD	284	112	273	107	263	103
3864	Mocha Beige-LT	40	15	38	15	37	14

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	273	107	255	100	239	94
221	Shell Pink-VY DK	288	113	269	106	252	99
317	Pewter Gray	158	62	147	58	138	54
326	Rose-VY DK	33	13	31	12	29	11
347	Salmon-VY DK	127	50	118	46	111	43
350	Coral-MD	115	45	107	42	101	39
351	Coral	178	70	166	65	156	61
352	Coral-LT	154	60	143	56	134	53
355	Terra Cotta-DK	432	170	403	158	378	149
356	Terra Cotta-MD	219	86	204	80	191	75
368	Pistachio Green-LT	34	13	32	12	30	11
369	Pistachio Green-VY LT	53	21	49	19	46	18
407	Desert Sand-DK	29	11	27	10	25	10
413	Pewter Gray-DK	177	69	166	65	155	61
414	Steel Gray-DK	53	21	50	19	47	18
420	Hazelnut Brown-DK	167	65	155	61	146	57
437	Tan-LT	64	25	60	23	56	22
445	Lemon-LT	102	40	95	37	89	35
472	Avocado Green-UL LT	104	41	97	38	91	35
522	Fern Green	30	12	28	11	26	10
580	Moss Green-DK	186	73	174	68	163	64
611	Drab Brown	298	117	278	109	260	102
640	Beige Gray-VY DK	340	134	317	125	298	117
645	Beaver Gray-VY DK	221	87	206	81	194	76
648	Beaver Gray-LT	19	7	17	7	16	6
680	Old Gold-DK	75	29	70	27	65	25
704	Chartreuse-BRT	44	17	41	16	39	15
721	Orange Spice-MD	71	28	66	26	62	24
725	Topaz	192	75	179	70	168	66
726	Topaz-LT	83	32	77	30	73	28
732	Olive Green	331	130	309	121	290	114
733	Olive Green-MD	148	58	138	54	129	51
734	Olive Green-LT	159	62	148	58	139	55
739	Tan-UL VY LT	42	16	39	15	37	14
743	Yellow-MD	109	42	101	40	95	37
744	Yellow-Pale	101	39	94	37	88	34

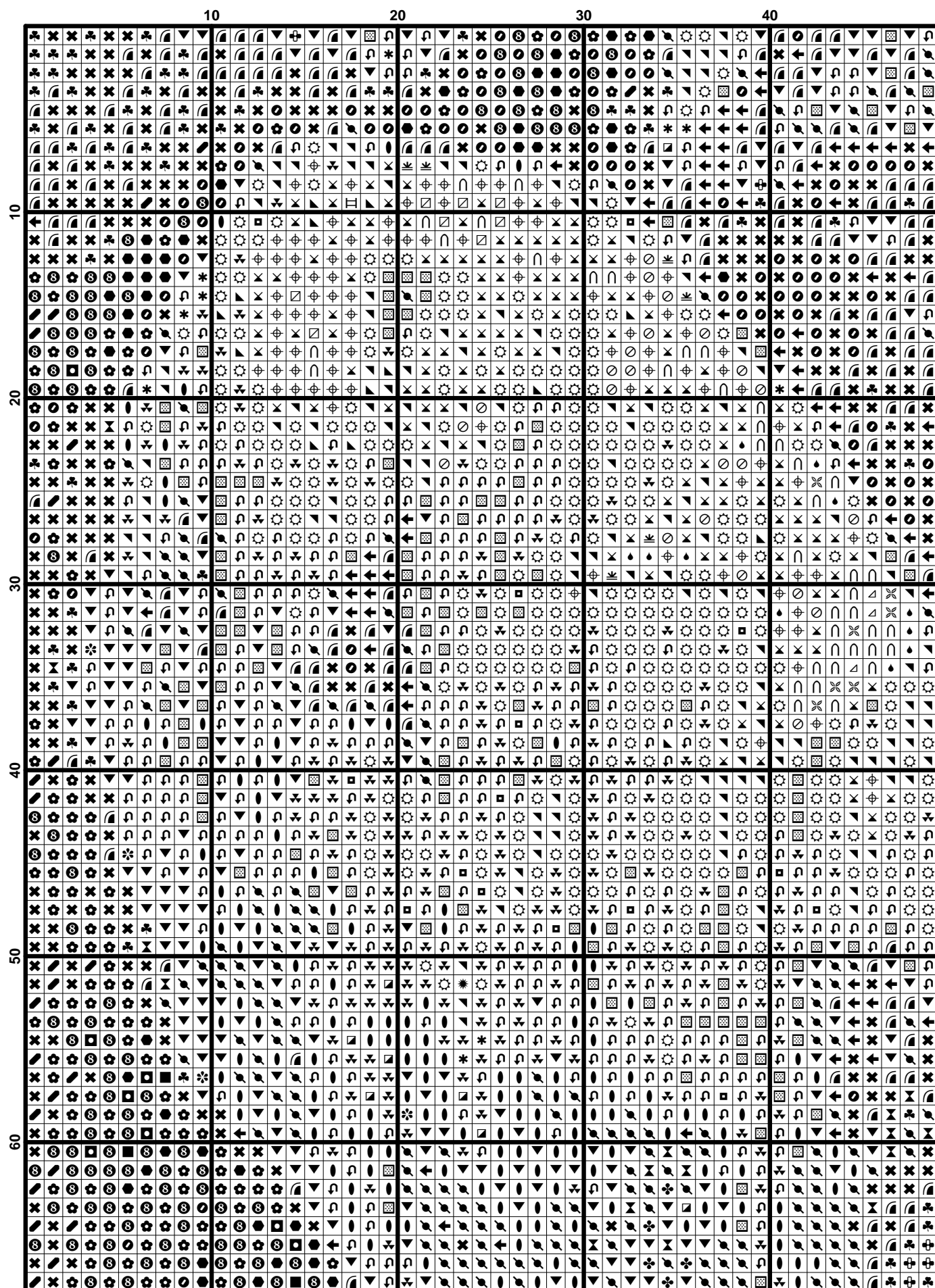
745	Yellow-LT Pale	88	34	82	32	77	30
746	Off White	291	114	272	107	255	100
758	Terra Cotta-VY LT	38	15	35	14	33	13
783	Topaz-MD	56	22	52	20	49	19
822	Beige Gray-LT	19	7	17	7	16	6
830	Golden Olive-DK	729	287	680	268	638	251
832	Golden Olive	147	57	137	53	128	50
833	Golden Olive-LT	86	33	80	31	75	29
834	Golden Olive-VY LT	145	57	136	53	127	50
838	Beige Brown-VY DK	143	56	133	52	125	49
844	Beaver Brown-UL DK	305	120	284	112	267	105
892	Carnation-MD	66	26	62	24	58	23
893	Carnation-LT	12	5	11	4	10	4
921	Copper	167	66	156	61	146	57
927	Gray Green-LT	14	5	13	5	12	5
931	Antique Blue-MD	39	15	37	14	34	14
934	Black Avocado Green	3100	1220	2893	1139	2712	1068
935	Avocado Green-DK	1169	460	1091	429	1023	402
937	Avocado Green-MD	753	296	703	277	659	259
938	Coffee Brown-UL DK	489	192	457	179	428	168
963	Dusty Rose-UL VY LT	35	14	32	13	30	12
975	Golden Brown-DK	416	163	388	152	364	143
977	Golden Brown-LT	165	64	154	60	144	56
987	Forest Green-DK	179	70	167	65	157	61
3012	Khaki Green-MD	177	69	166	65	155	61
3021	Brown Gray-VY DK	1311	516	1223	481	1147	451
3032	Mocha Brown-MD	268	105	250	98	235	92
3041	Antique Violet-MD	42	16	40	15	37	14
3045	Yellow Beige-DK	132	51	123	48	115	45
3046	Yellow Beige-MD	111	44	104	41	97	38
3053	Green Gray	32	12	30	11	28	11
3064	Desert Sand	30	12	28	11	26	10
3078	Golden Yellow-VY LT	88	34	82	32	77	30
3328	Salmon-DK	258	102	241	95	226	89
3340	Apricot-MD	85	33	79	31	74	29
3346	Hunter Green	584	230	545	214	511	201
3347	Yellow Green-MD	192	75	179	70	168	66
3348	Yellow Green-LT	69	27	65	25	61	24
3362	Pine Green-DK	1504	592	1404	553	1316	518
3363	Pine Green-MD	223	87	208	82	195	77
3364	Pine Green	44	17	41	16	38	15
3706	Melon-MD	24	9	22	8	21	8
3712	Salmon-MD	116	46	109	43	102	40
3772	Desert Sand-VY DK	93	36	86	34	81	32
3781	Mocha Brown-DK	467	183	436	171	408	160
3787	Brown Gray-DK	816	321	762	300	714	281
3790	Beige Gray-UL DK	390	153	364	143	341	134
3799	Pewter Gray-VY DK	895	352	835	329	783	308
3820	Straw-DK	74	29	69	27	65	25
3823	Yellow-UL Pale	213	84	199	78	186	73
3824	Apricot-LT	145	57	136	53	127	50
3828	Hazelnut Brown	94	37	88	34	82	32
3829	Old Gold-VY DK	74	29	69	27	65	25
3830	Terra Cotta-MD	302	118	281	110	264	104
3852	Straw-VY DK	19	7	17	7	16	6
3853	Autumn Gold-DK	102	40	95	37	89	35
3854	Autumn Gold-MD	98	39	92	36	86	34
3856	Mahogany-UL VY LT	44	17	41	16	38	15
3857	Rosewood-DK	502	197	469	184	439	173

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3858	Rosewood-MD	253	100	236	93	222	87
3864	Mocha Beige-LT	35	14	33	13	31	12





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(16)



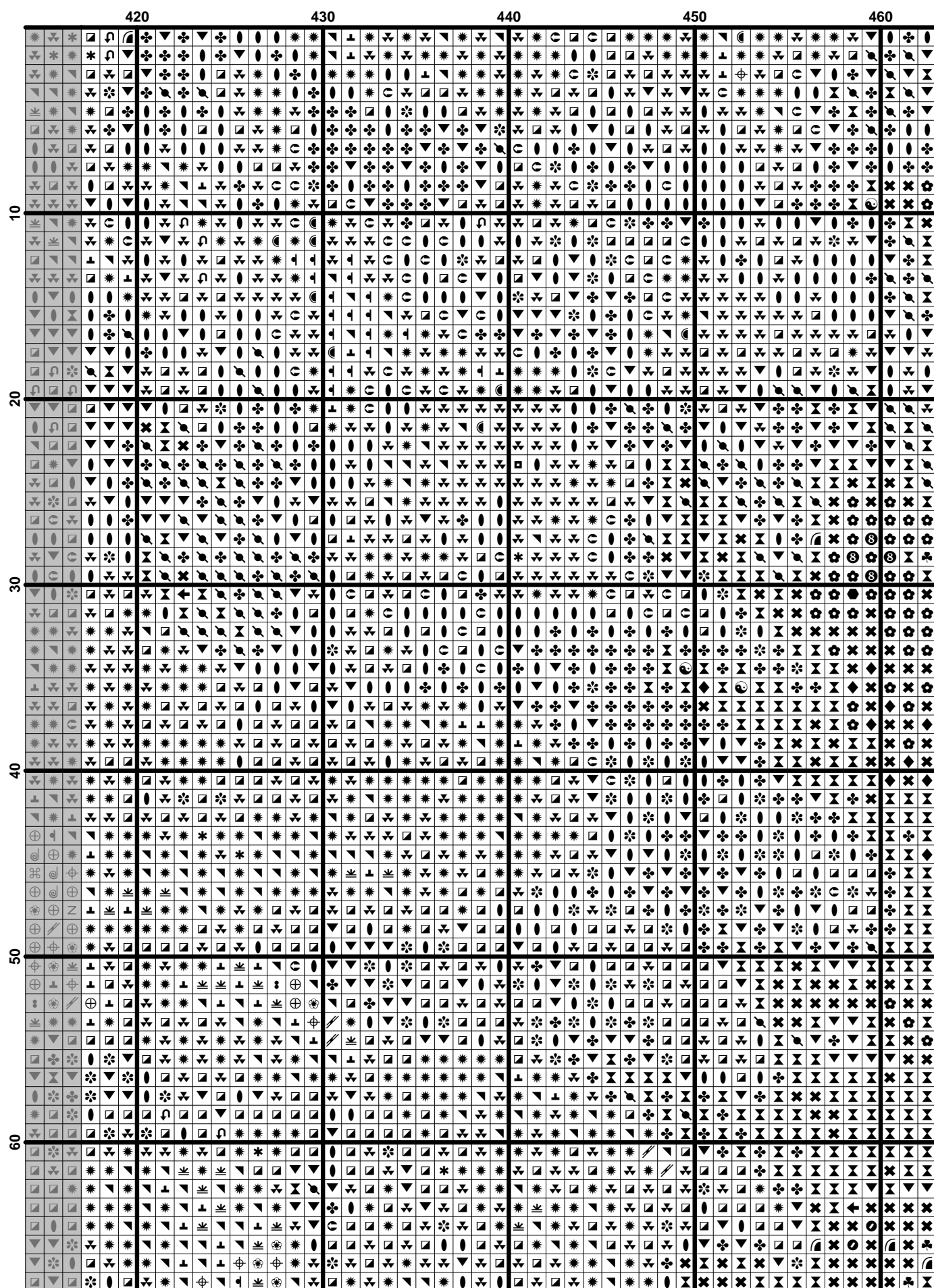
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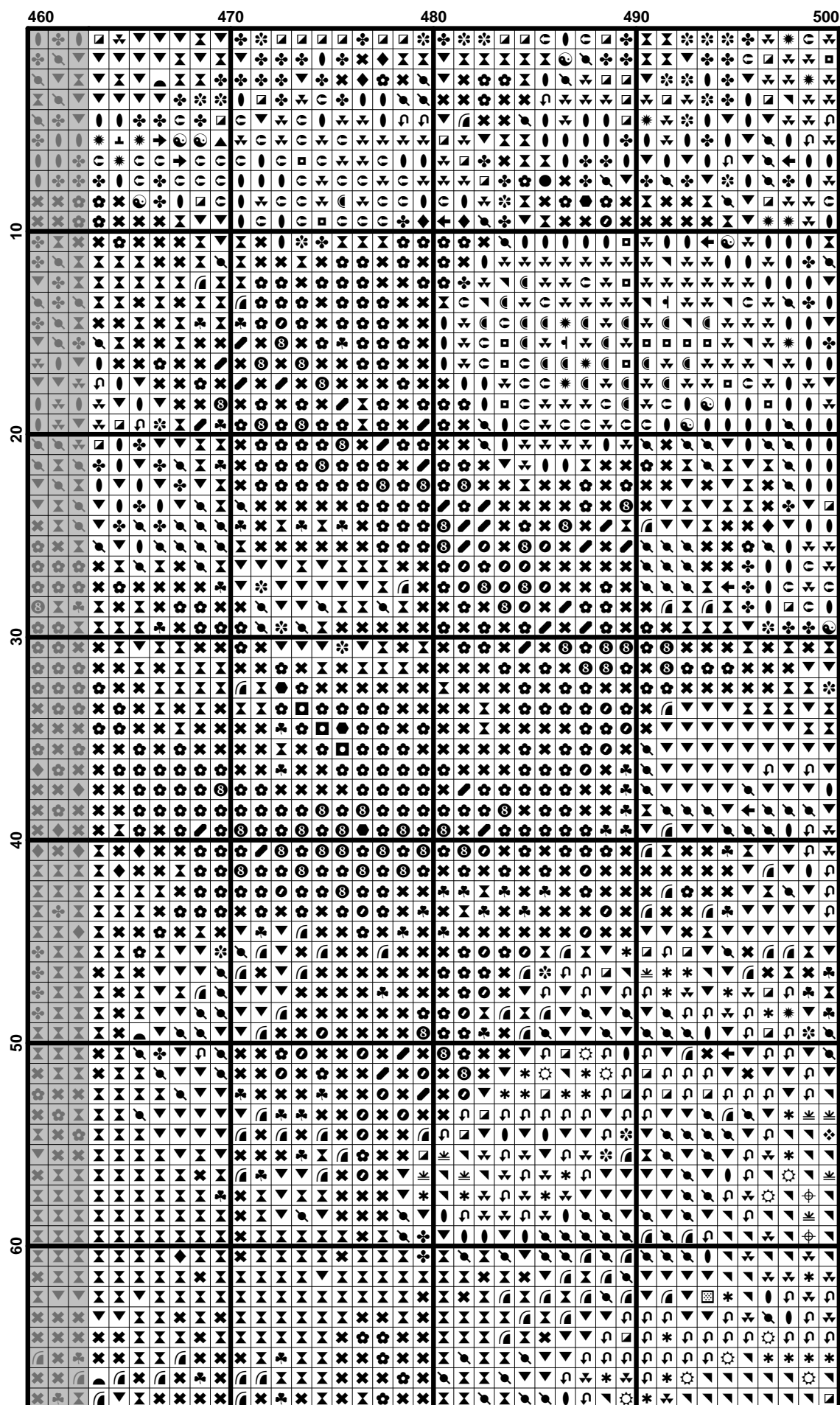
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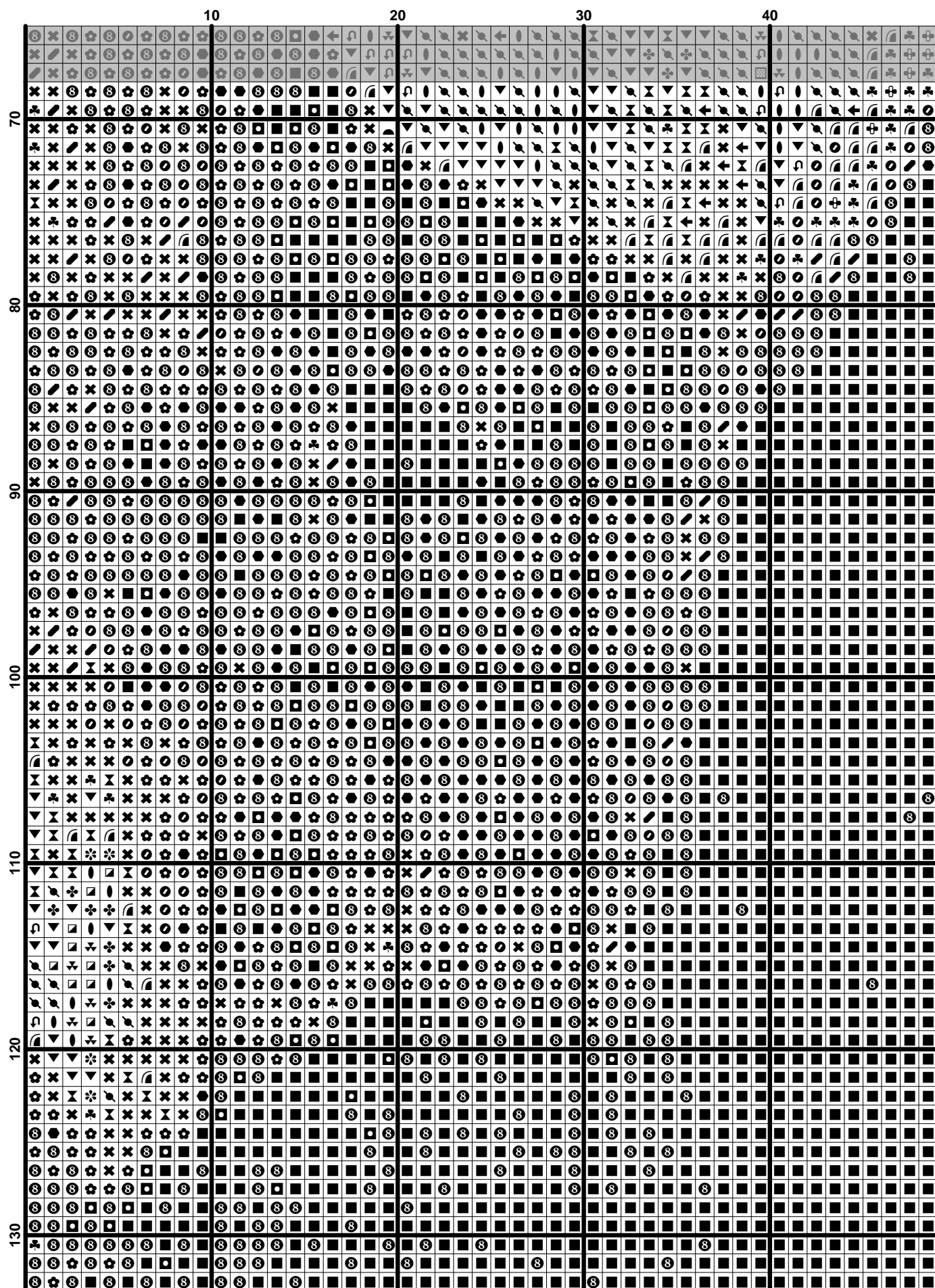
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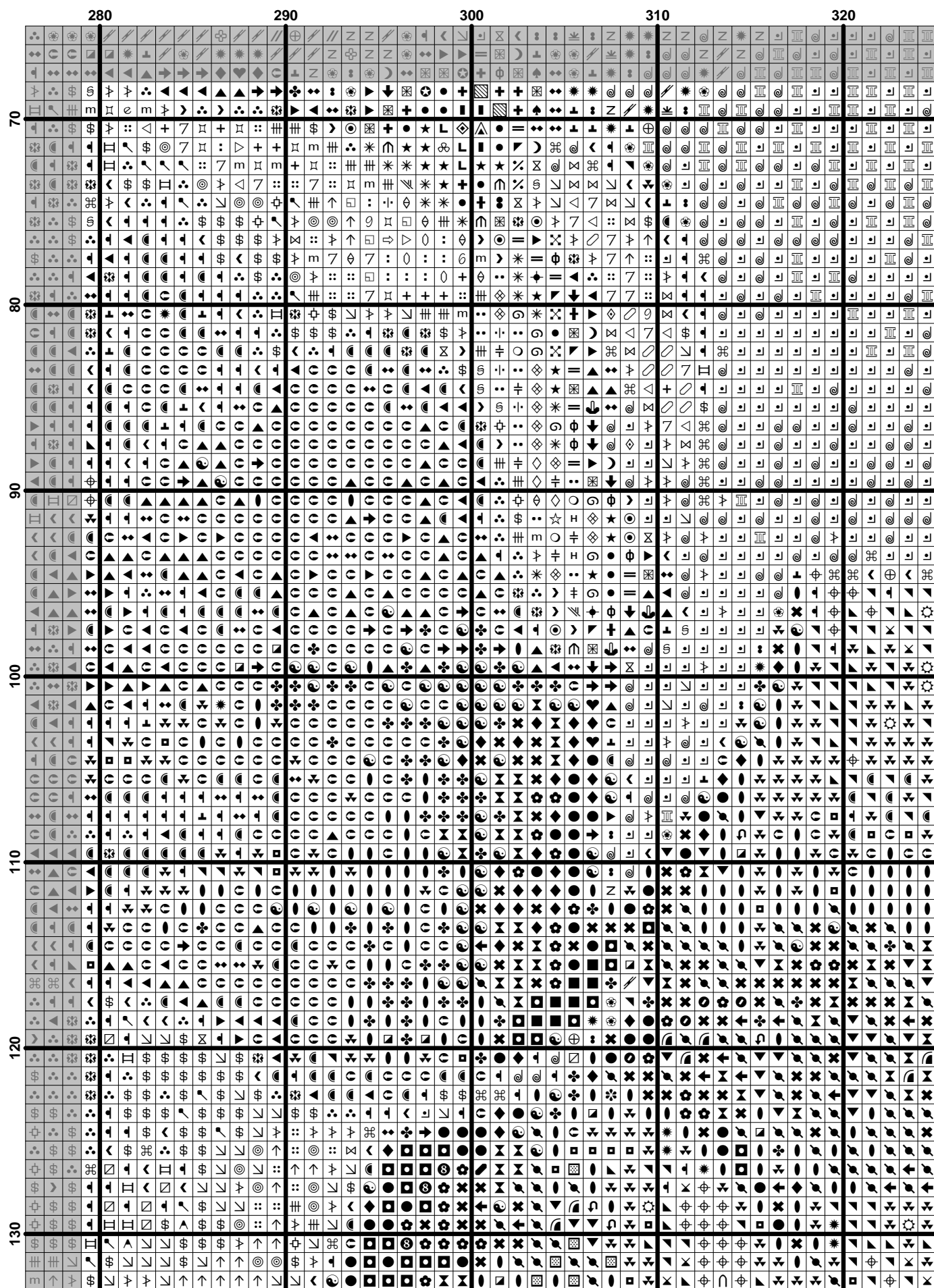
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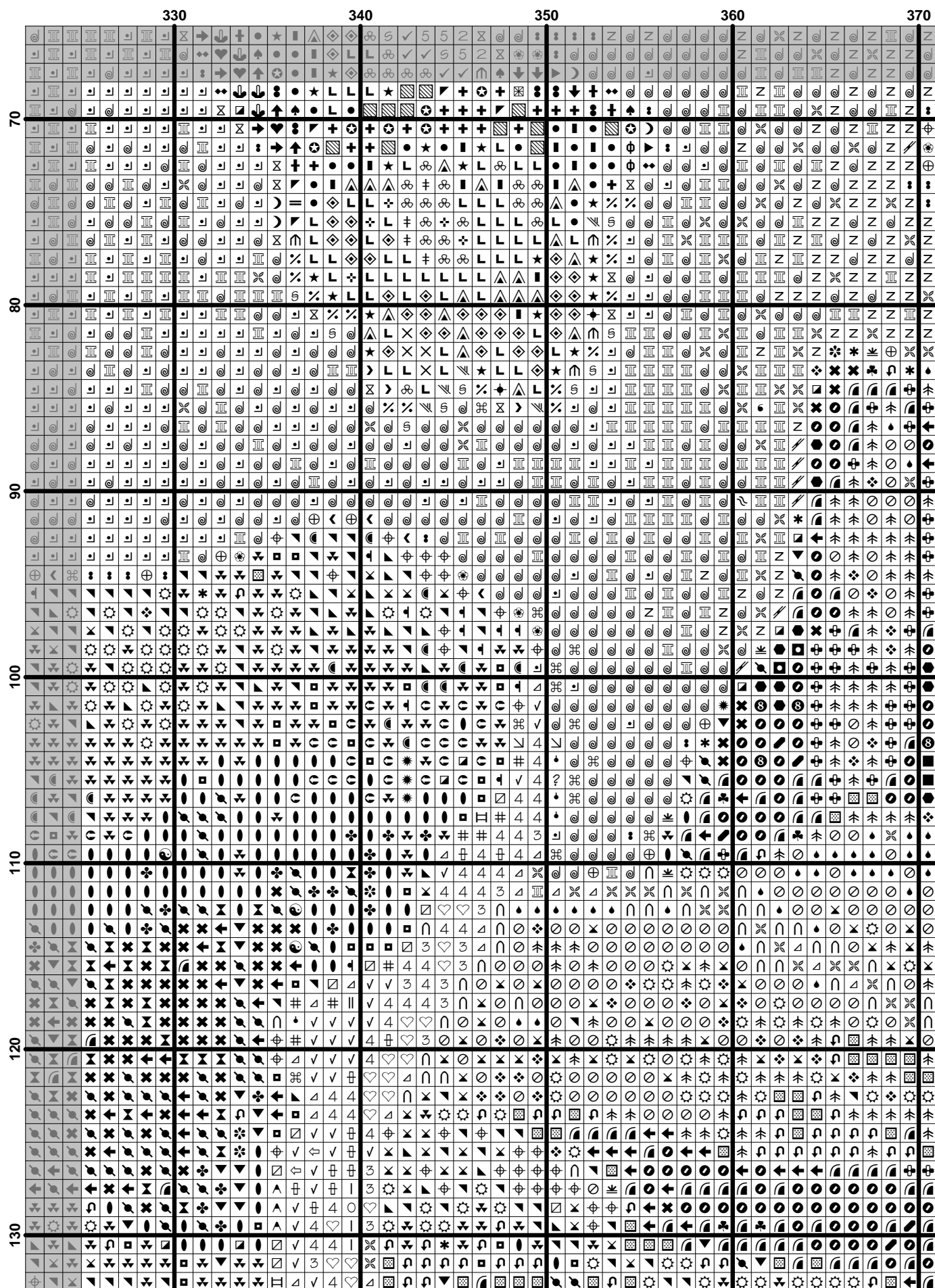
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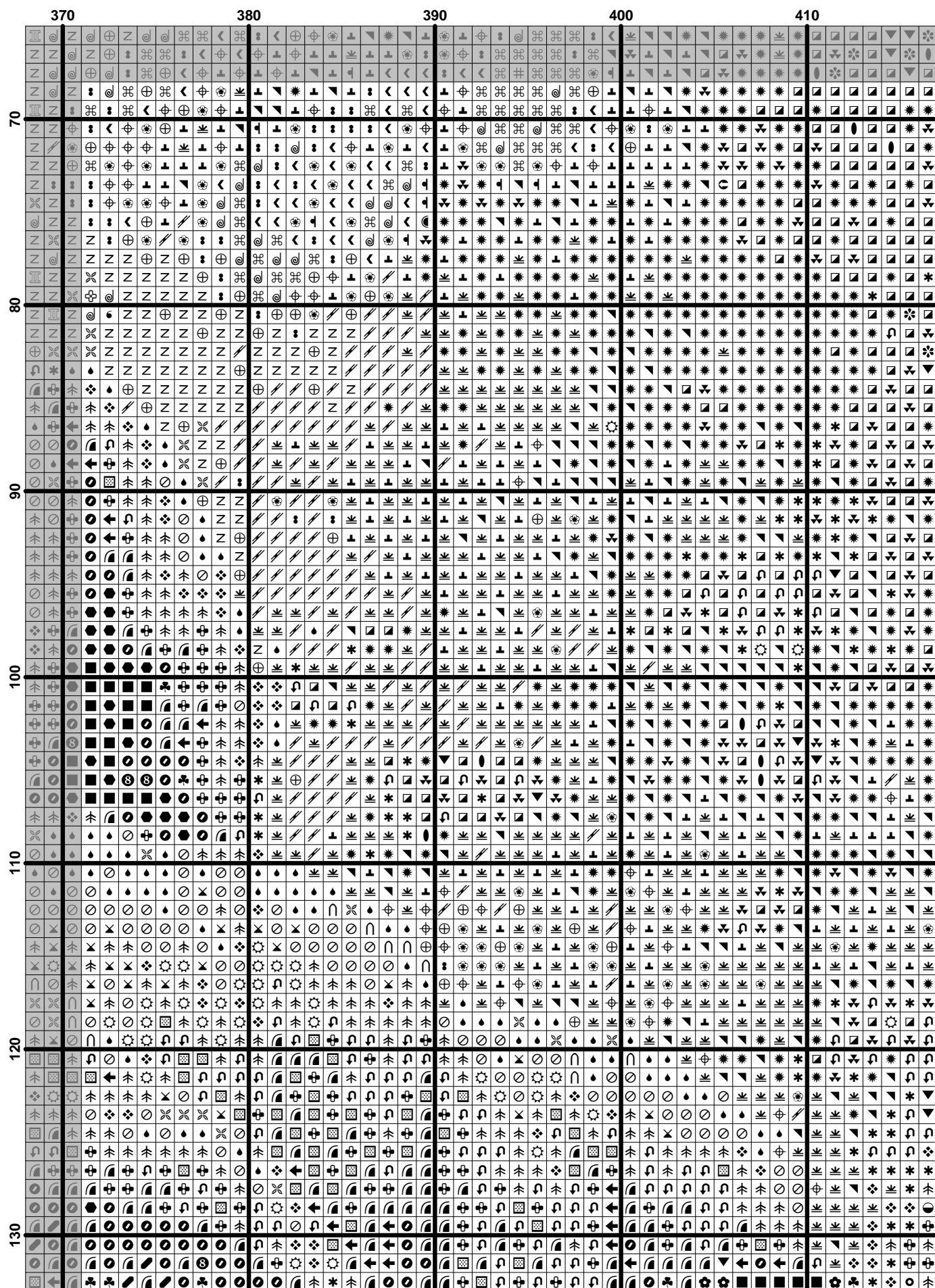


$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

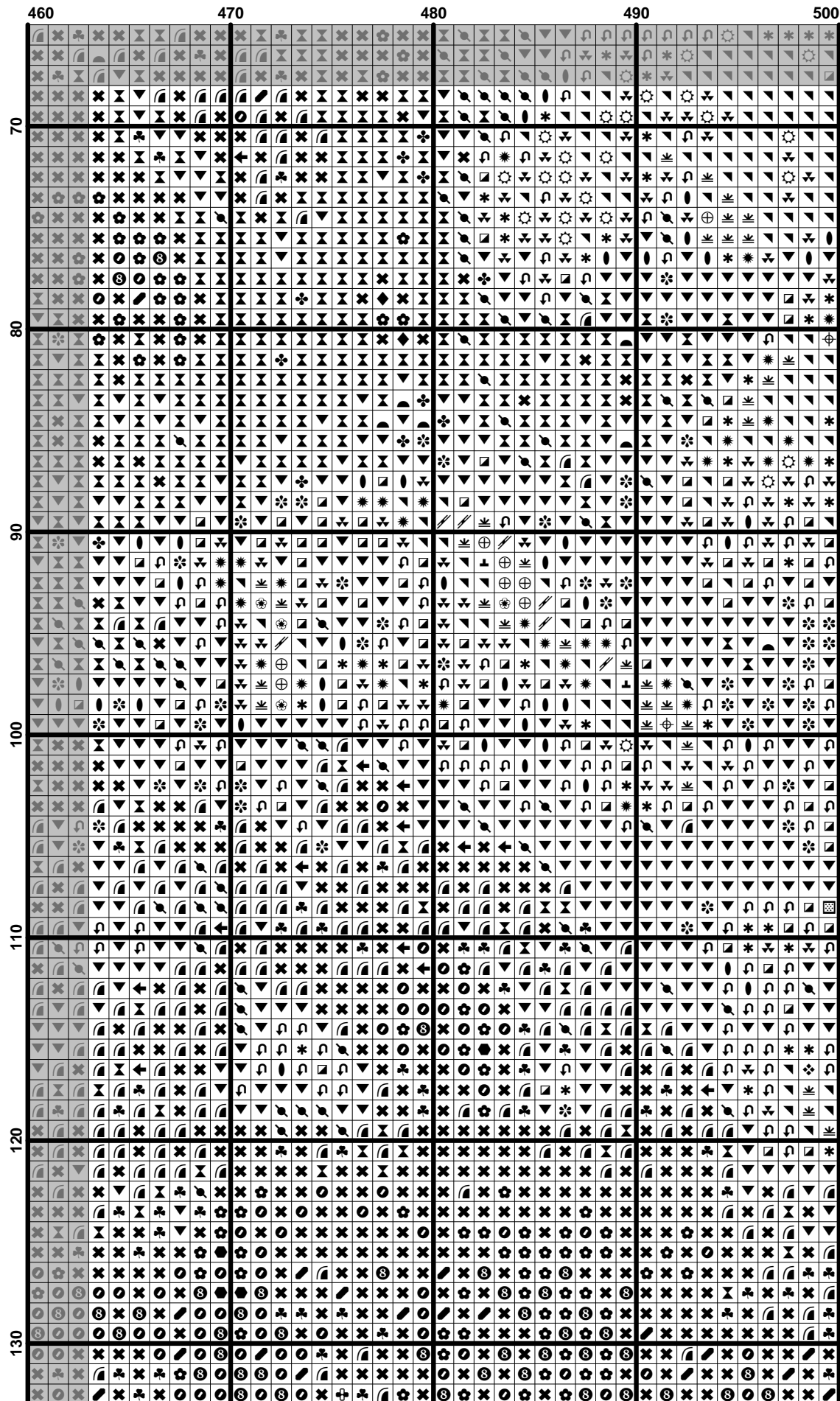
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	420	430	440	450	460
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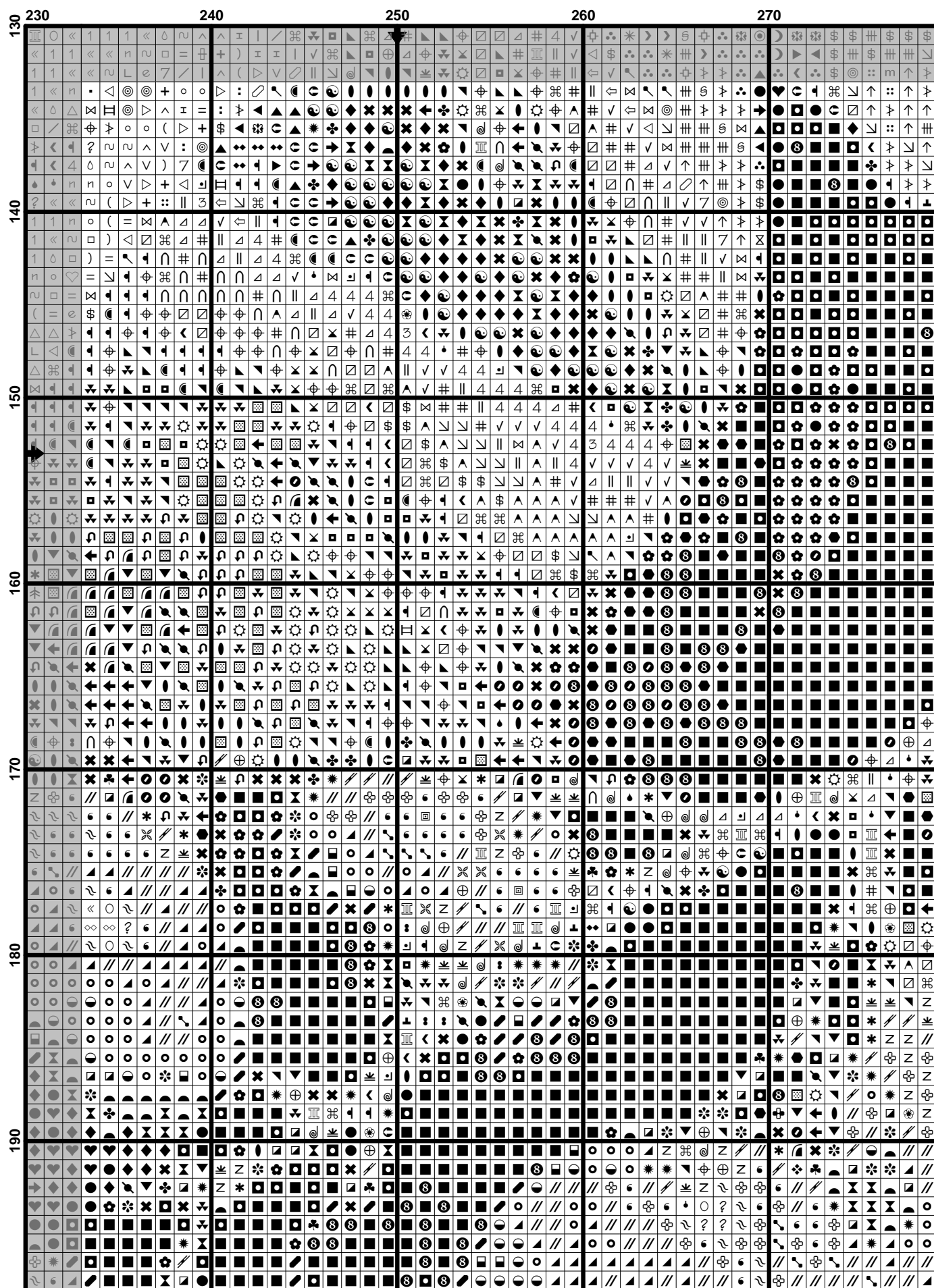


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$$(36) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

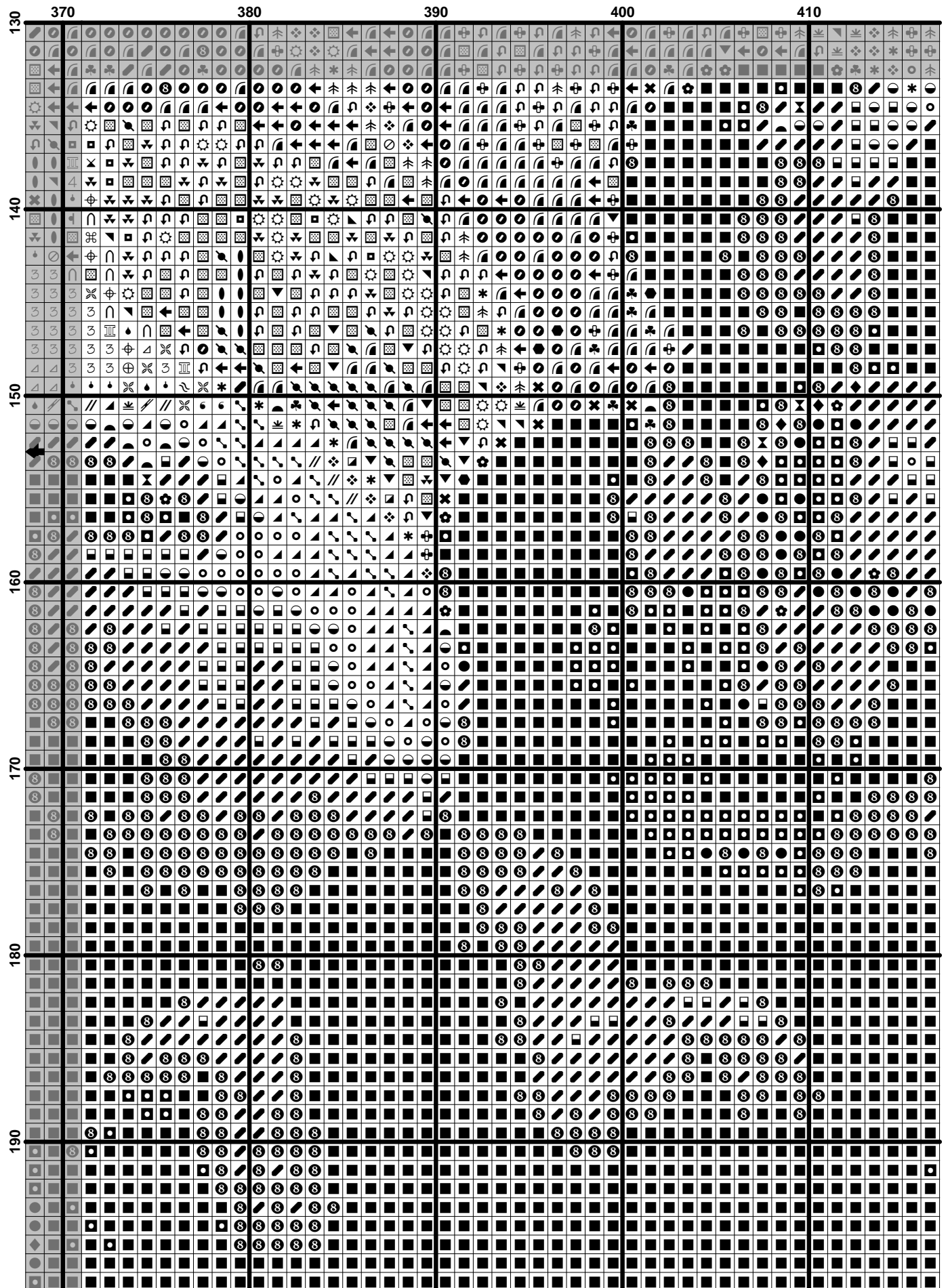
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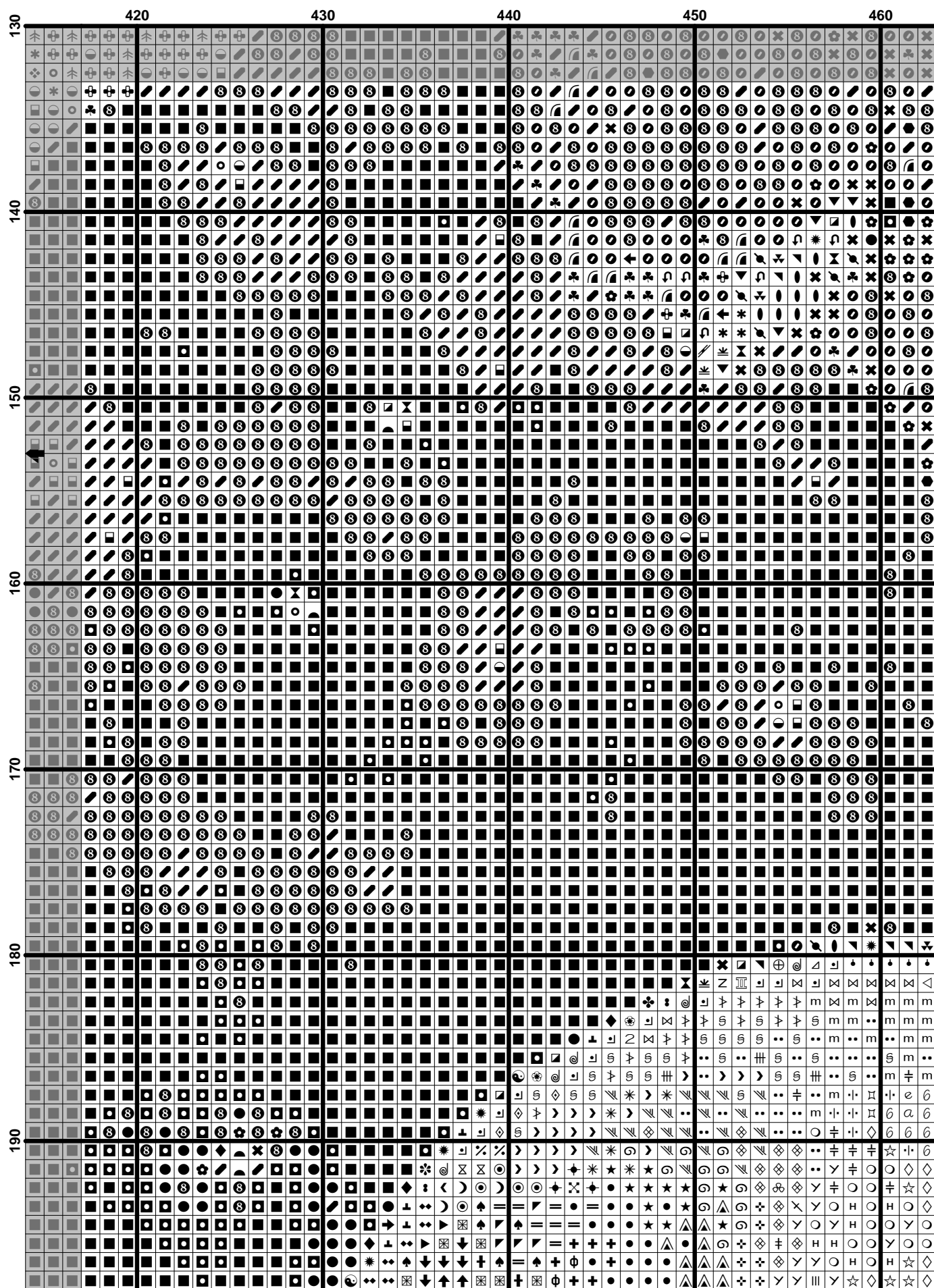


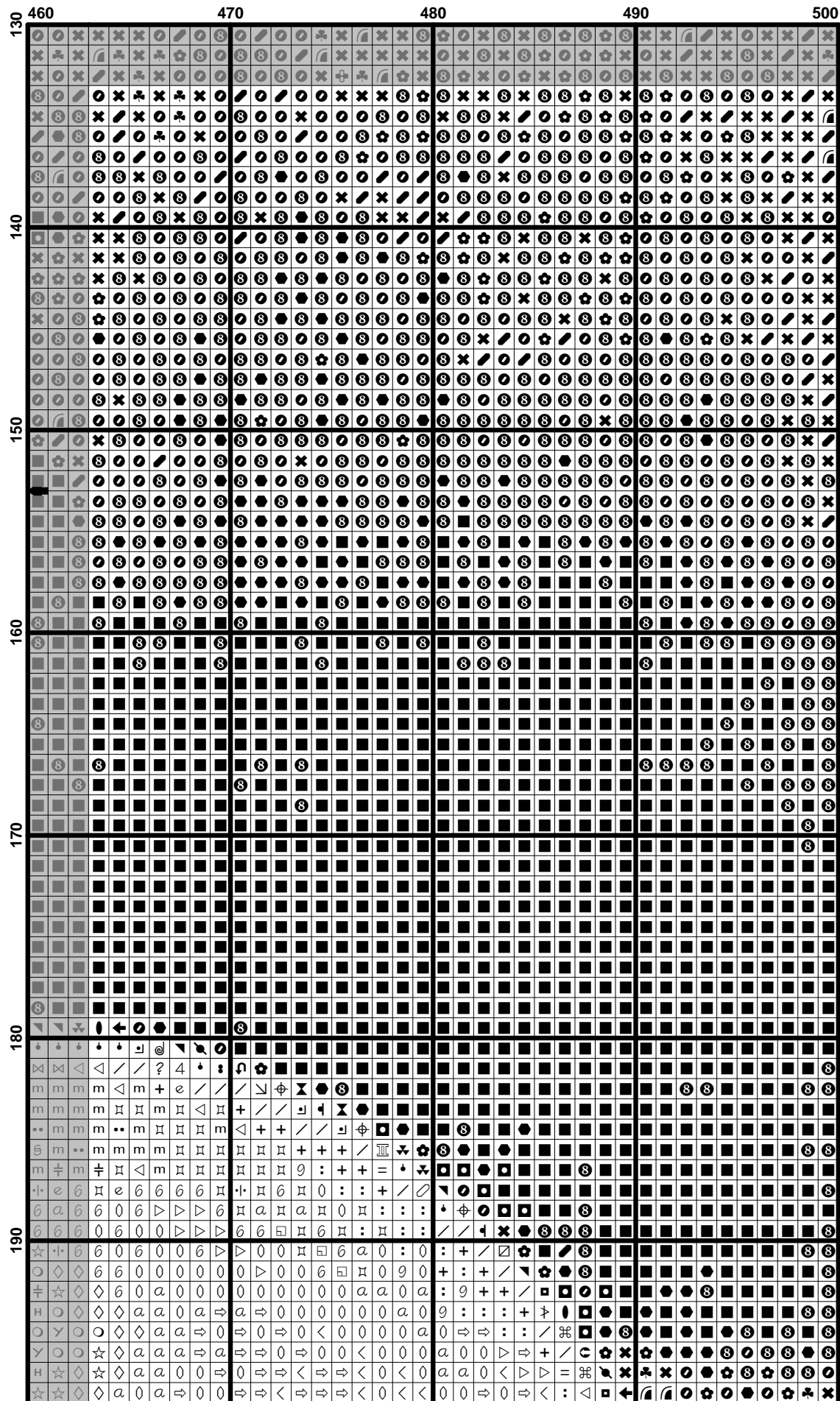


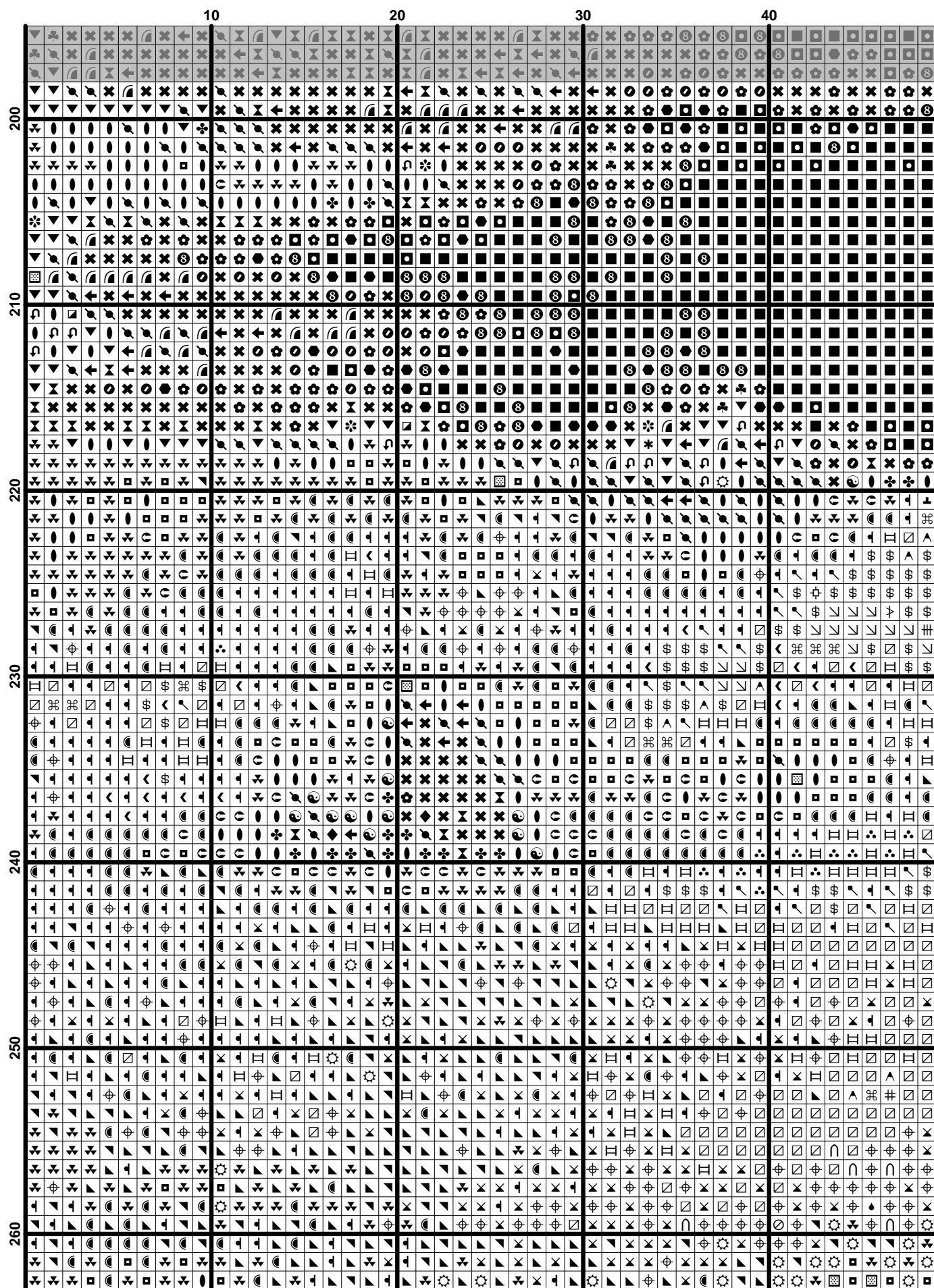
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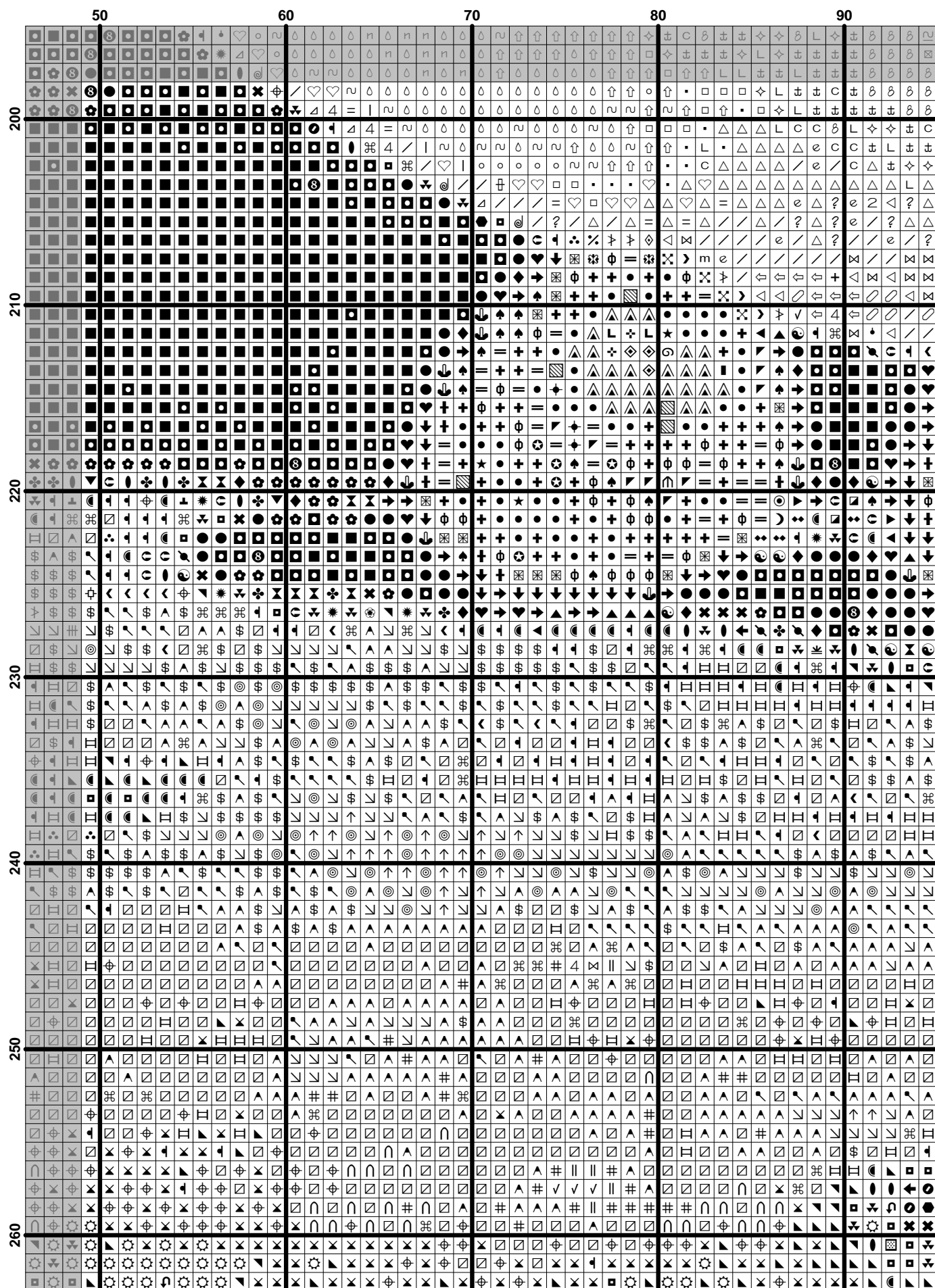




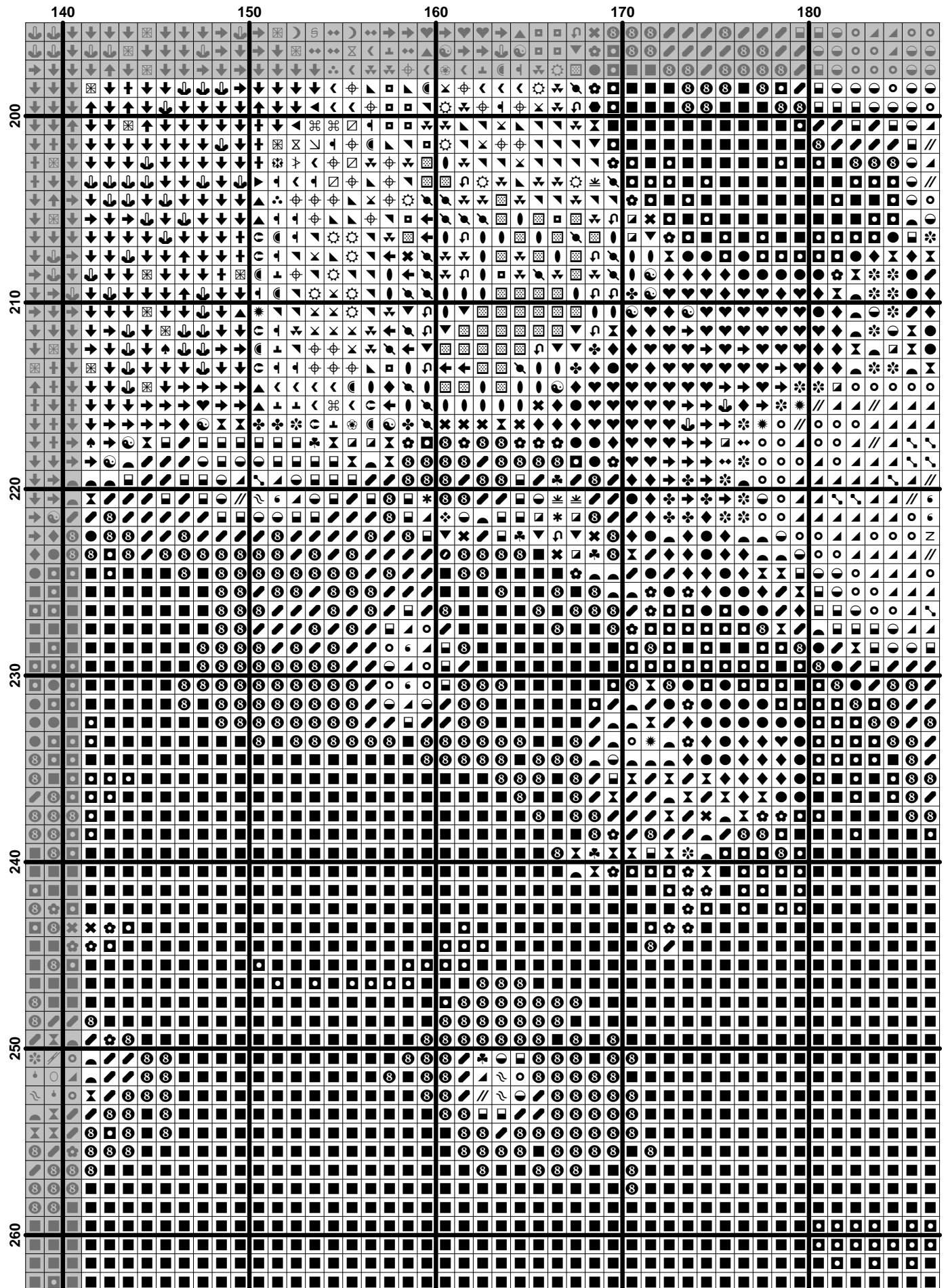


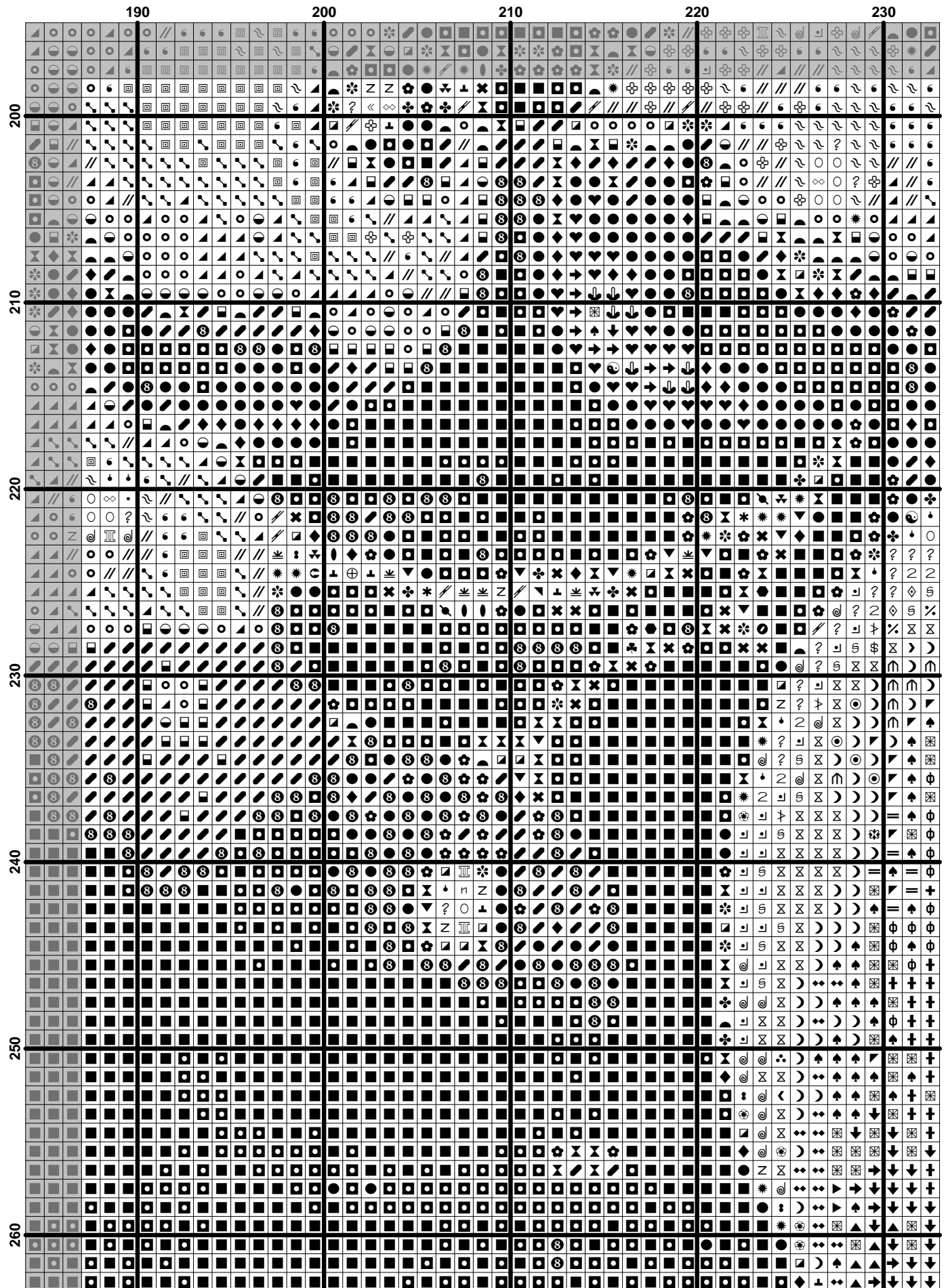






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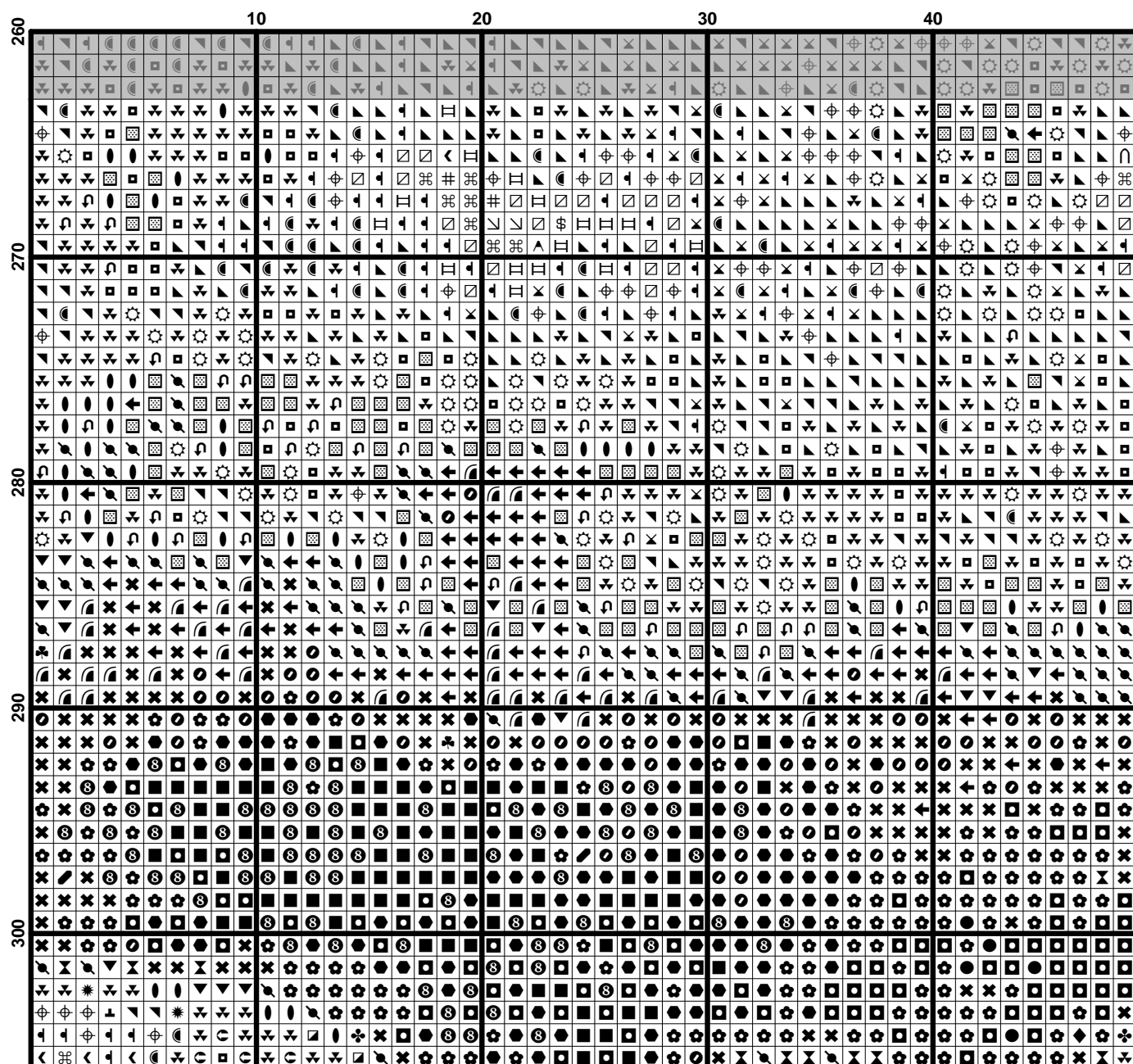
[illegible]

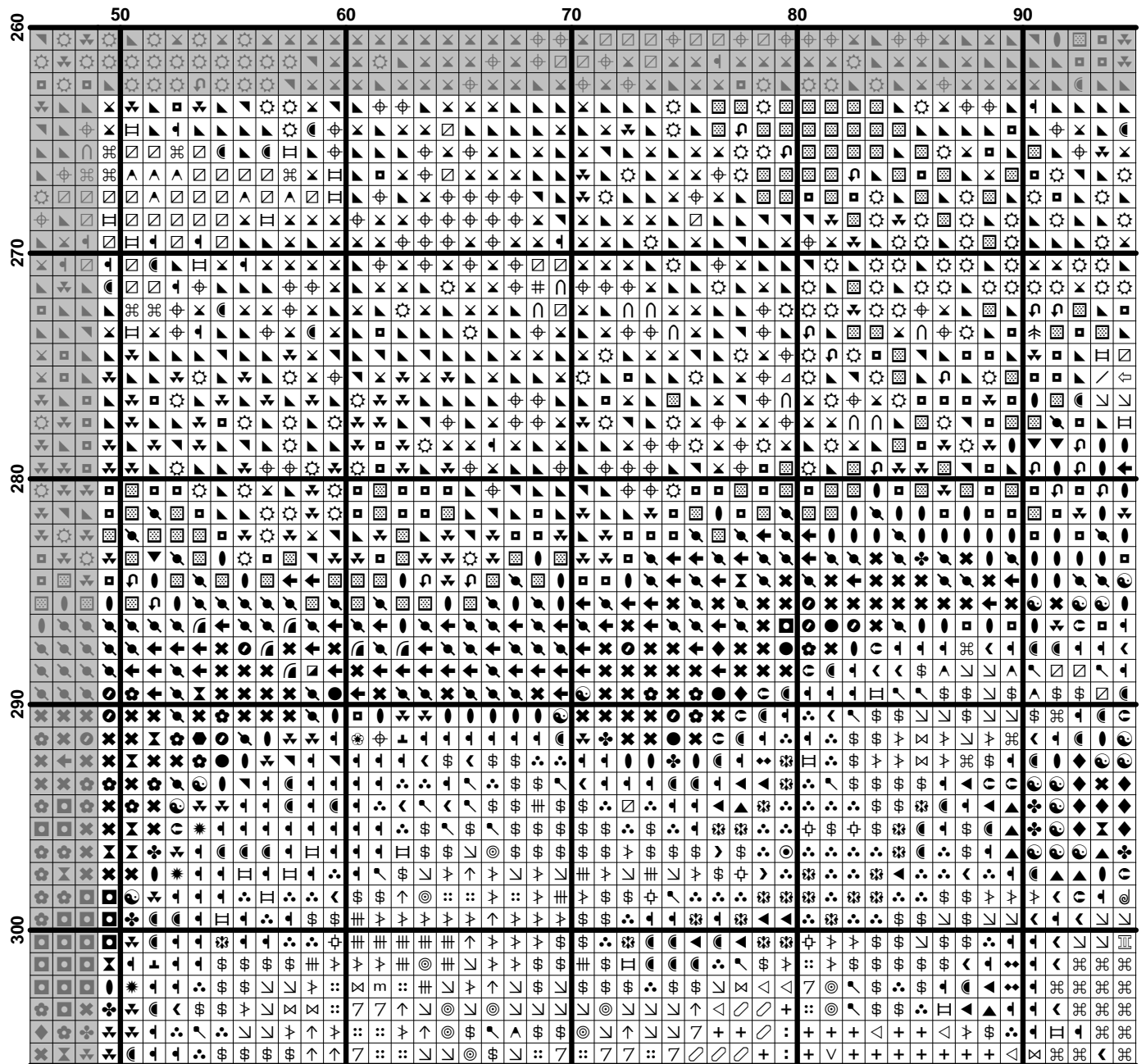
$$(52) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

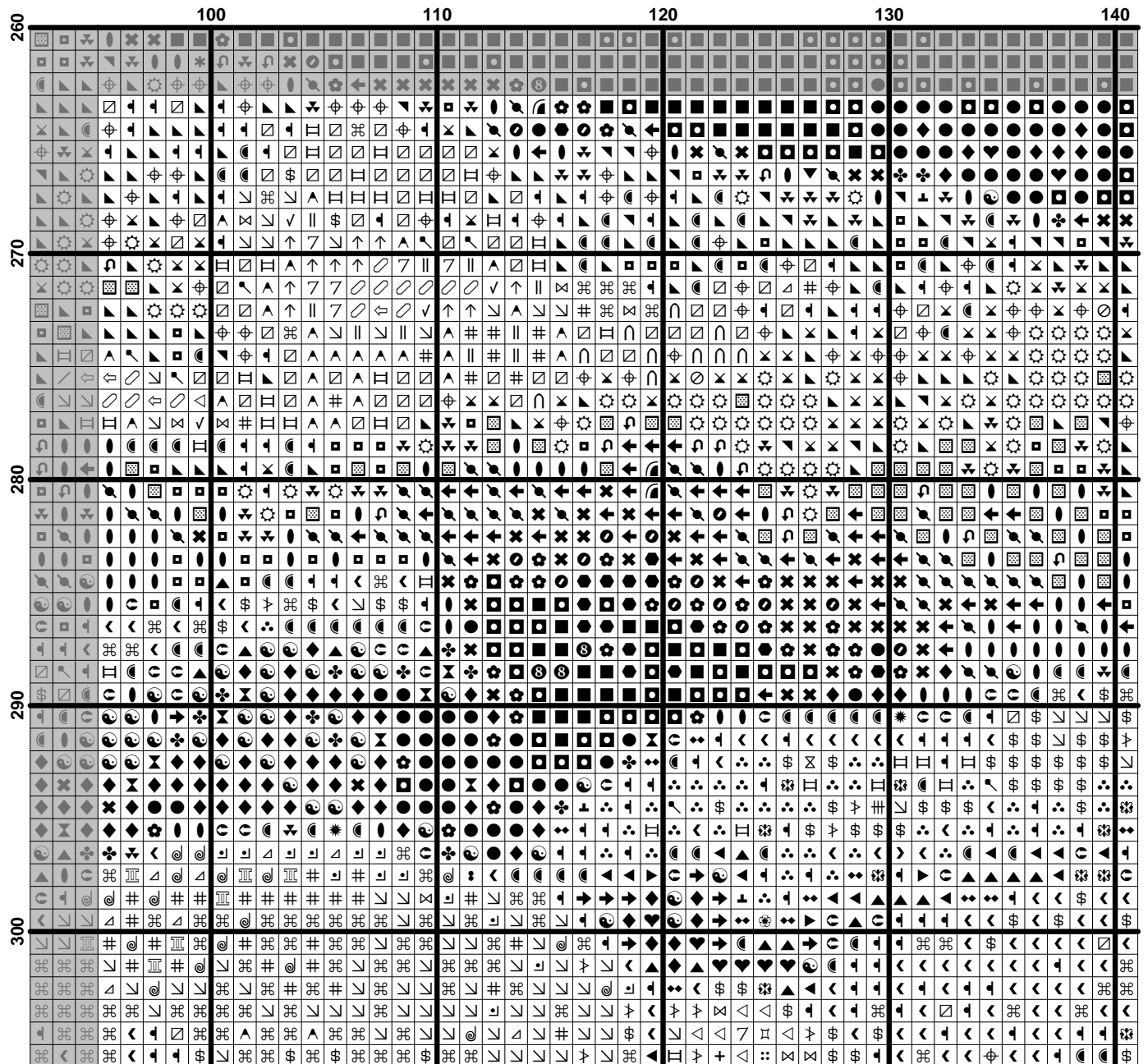
	370	380	390	400	410
200	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
210	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
220	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
230	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
240	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
250	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>
260	<div> </div>	<div> </div>	<div> </div>	<div> </div>	<div> </div>

[illegible]

(55)









	140	150	160	170	180
260					
270					
280					
290					
300					

	190	200	210	220	230
260					
270					
280					
290					
300					

260	230	240	250	260	270
260	230	240	250	260	270
270	270	270	270	270	270
280	280	280	280	280	280
290	290	290	290	290	290
300	300	300	300	300	300

[illegible]

[illegible]

