

## 1487 The Pet Canaries



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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 Pet Canaries

Stitch Count	
Horizontal:	440
Vertical:	593

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:	80	31.33	108	42.26	70	27.42	94	36.98	62	24.375	84	32.875
Including Margins:	96	38	124	49	86	34	110	43	78	31	100	39
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	112	43.86	151	59.16	93	36.55	126	49.3	46	18.27	63	24.65
Including Margins:	128	50	167	66	109	43	142	56	62	25	79	31
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	44	17.54	60	23.66	43	16.87	58	22.75	41	16.24	56	21.91
Including Margins:	60	24	76	30	59	23	74	29	57	23	72	28
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	40	15.66	54	21.13	37	14.62	50	19.72	35	13.7	47	18.48
Including Margins:	56	22	70	28	53	21	66	26	51	20	63	25

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
↑	225	Shell Pink-UL VY LT
↗	300	Mahogany-VY DK
■	310	Black
×	320	Pistachio Green-MD
●	356	Terra Cotta-MD
✕	367	Pistachio Green-DK
≈	372	Mustard-LT
■	400	Mahogany-DK
✓	407	Desert Sand-DK
α	415	Pearl Gray
⌘	420	Hazelnut Brown-DK
∅	422	Hazelnut Brown-LT
☆	452	Shell Gray-MD
∅	453	Shell Gray-LT
⊗	500	Blue Green-VY DK
⊕	502	Blue Green
⊗	503	Blue Green-MD
⊖	520	Fern Green-DK
↖	535	Ash Gray-VY LT
)	543	Beige Brown-UL VY LT
⬇	610	Drab Brown-DK
⬆	612	Drab Brown-LT
⊗	632	Desert Sand-UL VY DK
⬇	645	Beaver Gray-VY DK
⊕	646	Beaver Gray-DK
○	647	Beaver Gray-MD
g	648	Beaver Gray-LT
⊕	680	Old Gold-DK
≈	712	Cream
<	739	Tan-UL VY LT
1	746	Off White
L	754	Peach-LT
⌘	758	Terra Cotta-VY LT
n	819	Baby Pink-LT
♠	829	Golden Olive-VY DK
/	834	Golden Olive-VY LT
⊗	839	Beige Brown-DK

⊗	844	Beaver Brown-UL DK
⬆	869	Hazelnut Brown-VY DK
φ	918	Red Copper-DK
↘	919	Red Copper
❖	920	Copper-MD
Δ	927	Gray Green-LT
⬇	935	Avocado Green-DK
⊗	938	Coffee Brown-UL DK
⊖	948	Peach-VY LT
⊕	950	Desert Sand-LT
⊗	987	Forest Green-DK
m	993	Aquamarine-LT
⬆	3011	Khaki Green-DK
●	3021	Brown Gray-VY DK
⊗	3022	Brown Gray-MD
⬇	3032	Mocha Brown-MD
↘	3064	Desert Sand
>	3072	Beaver Gray-VY LT
✱	3362	Pine Green-DK
■	3371	Black Brown
☾	3721	Shell Pink-DK
◇	3753	Antique Blue-UL VY LT
∞	3770	Tawny-VY LT
#	3778	Terra Cotta-LT
⊖	3781	Mocha Brown-DK
★	3787	Brown Gray-DK
∅	3790	Beige Gray-UL DK
⬆	3813	Blue Green-LT
↖	3815	Celadon Green-DK
↖	3816	Celadon Green-MD
e	3825	Pumpkin-Pale
Z	3829	Old Gold-VY DK
⬆	3830	Terra Cotta-MD
⌘	3855	Autumn Gold-LT
⬆	3857	Rosewood-DK
↖	3862	Mocha Beige-DK
♠	3863	Mocha Beige-MD
⬆	3864	Mocha Beige-LT
	3866	Mocha Brown-UL VY 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
⊗	938	Coffee Brown-UL DK	3371	Black Brown
⬆	819	Baby Pink-LT	3865	Winter White
⬆	610	Drab Brown-DK	632	Desert Sand-UL VY DK
c	738	Tan-VY LT	758	Terra Cotta-VY LT
⊗	452	Shell Gray-MD	648	Beaver Gray-LT
⬆	356	Terra Cotta-MD	3830	Terra Cotta-MD
⬆	451	Shell Gray-DK	647	Beaver Gray-MD
✱	645	Beaver Gray-VY DK	926	Gray Green-MD

+	758	Terra Cotta-VY LT	3856	Mahogany-UL VY LT
↑	935	Avocado Green-DK	938	Coffee Brown-UL DK
(	353	Peach	3823	Yellow-UL Pale
☞	451	Shell Gray-DK	3861	Cocoa-LT
●	934	Black Avocado Green	3371	Black Brown
✕	934	Black Avocado Green	935	Avocado Green-DK
›	611	Drab Brown	3790	Beige Gray-UL DK
◦	610	Drab Brown-DK	3781	Mocha Brown-DK
○	739	Tan-UL VY LT	950	Desert Sand-LT
‡	647	Beaver Gray-MD	3864	Mocha Beige-LT
▨	300	Mahogany-VY DK	975	Golden Brown-DK
↓	938	Coffee Brown-UL DK	3799	Pewter Gray-VY DK
↖	371	Mustard	420	Hazelnut Brown-DK
:	3827	Golden Brown-Pale	3855	Autumn Gold-LT
✕	934	Black Avocado Green	3021	Brown Gray-VY DK
//	420	Hazelnut Brown-DK	869	Hazelnut Brown-VY DK
▲	520	Fern Green-DK	3021	Brown Gray-VY DK
?	402	Mahogany-VY LT	437	Tan-LT
☒	224	Shell Pink-VY LT	3864	Mocha Beige-LT
➔	935	Avocado Green-DK	3799	Pewter Gray-VY DK
↓	898	Coffee Brown-VY DK	936	Avocado Green-VY DK
▨	223	Shell Pink-LT	3864	Mocha Beige-LT
⊕	632	Desert Sand-UL VY DK	3863	Mocha Beige-MD
△	842	Beige Brown-VY LT	950	Desert Sand-LT
◦	712	Cream	3756	Baby Blue-UL VY LT
3	224	Shell Pink-VY LT	452	Shell Gray-MD
8	224	Shell Pink-VY LT	842	Beige Brown-VY LT
●	310	Black	934	Black Avocado Green
•	353	Peach	948	Peach-VY LT
☞	3021	Brown Gray-VY DK	3371	Black Brown
▨	300	Mahogany-VY DK	898	Coffee Brown-VY DK
☞	223	Shell Pink-LT	3863	Mocha Beige-MD
☒	402	Mahogany-VY LT	3064	Desert Sand
5	407	Desert Sand-DK	422	Hazelnut Brown-LT
⌂	535	Ash Gray-VY LT	3815	Celadon Green-DK
⌂	434	Brown-LT	975	Golden Brown-DK
田	435	Brown-VY LT	729	Old Gold-MD
..	927	Gray Green-LT	3849	Teal Green-LT
u	1	White 1	746	Off White
□	353	Peach	745	Yellow-LT Pale
■	433	Brown-MD	869	Hazelnut Brown-VY DK
◎	632	Desert Sand-UL VY DK	3830	Terra Cotta-MD
L	645	Beaver Gray-VY DK	3815	Celadon Green-DK
▶	3362	Pine Green-DK	3781	Mocha Brown-DK
▨	640	Beige Gray-VY DK	646	Beaver Gray-DK
♣	898	Coffee Brown-VY DK	3781	Mocha Brown-DK
♣	435	Brown-VY LT	3862	Mocha Beige-DK
4	3341	Apricot	3825	Pumpkin-Pale
◇	729	Old Gold-MD	3828	Hazelnut Brown
!	975	Golden Brown-DK	3857	Rosewood-DK
√	3859	Rosewood-LT	3864	Mocha Beige-LT
↑	612	Drab Brown-LT	3053	Green Gray
▷	745	Yellow-LT Pale	3046	Yellow Beige-MD
✱	935	Avocado Green-DK	3362	Pine Green-DK
♥	310	Black	935	Avocado Green-DK
•	436	Tan	722	Orange Spice-LT
\$	926	Gray Green-MD	3849	Teal Green-LT
—	3712	Salmon-MD	3825	Pumpkin-Pale
^	353	Peach	746	Off White

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⦿	610	Drab Brown-DK	3362	Pine Green-DK
◆	814	Garnet-DK	938	Coffee Brown-UL DK
⌘	3863	Mocha Beige-MD	3864	Mocha Beige-LT
◇	758	Terra Cotta-VY LT	3825	Pumpkin-Pale
⇒	453	Shell Gray-LT	3072	Beaver Gray-VY LT
*	610	Drab Brown-DK	844	Beaver Brown-UL DK
◇	223	Shell Pink-LT	224	Shell Pink-VY LT
⬆	520	Fern Green-DK	924	Gray Green--VY DK
◊	712	Cream	819	Baby Pink-LT
::	758	Terra Cotta-VY LT	3712	Salmon-MD
♡	353	Peach	754	Peach-LT
♦♦	367	Pistachio Green-DK	520	Fern Green-DK
⊠	611	Drab Brown	640	Beige Gray-VY DK
	642	Beige Gray-DK	647	Beaver Gray-MD
∞	522	Fern Green	647	Beaver Gray-MD
=	829	Golden Olive-VY DK	830	Golden Olive-DK
▲	920	Copper-MD	975	Golden Brown-DK
✕	223	Shell Pink-LT	642	Beige Gray-DK
●	400	Mahogany-DK	920	Copper-MD
⊕	801	Coffee Brown-DK	829	Golden Olive-VY DK
⊗	909	Emerald Green-VY DK	924	Gray Green--VY DK
◇	3778	Terra Cotta-LT	3863	Mocha Beige-MD
⊥	352	Coral-LT	3855	Autumn Gold-LT
◁	415	Pearl Gray	993	Aquamarine-LT
∨	745	Yellow-LT Pale	3341	Apricot
≡	975	Golden Brown-DK	3829	Old Gold-VY DK
≡	223	Shell Pink-LT	647	Beaver Gray-MD
√	648	Beaver Gray-LT	3813	Blue Green-LT
+	829	Golden Olive-VY DK	3781	Mocha Brown-DK
♂	918	Red Copper-DK	919	Red Copper
⊗	920	Copper-MD	3829	Old Gold-VY DK
▼	3031	Mocha Brown-VY DK	3362	Pine Green-DK
5	3046	Yellow Beige-MD	3864	Mocha Beige-LT
✕	434	Brown-LT	869	Hazelnut Brown-VY DK
♣	814	Garnet-DK	918	Red Copper-DK
↘	829	Golden Olive-VY DK	3031	Mocha Brown-VY DK
⌋	612	Drab Brown-LT	3778	Terra Cotta-LT
×	647	Beaver Gray-MD	3849	Teal Green-LT
∩	680	Old Gold-DK	3829	Old Gold-VY DK
☯	898	Coffee Brown-VY DK	3031	Mocha Brown-VY DK
◀	918	Red Copper-DK	920	Copper-MD
=	754	Peach-LT	3856	Mahogany-UL VY LT
7	3813	Blue Green-LT	3864	Mocha Beige-LT
6	842	Beige Brown-VY LT	3046	Yellow Beige-MD
⇐	224	Shell Pink-VY LT	3046	Yellow Beige-MD
¾	3829	Old Gold-VY DK	3863	Mocha Beige-MD
◀	320	Pistachio Green-MD	3011	Khaki Green-DK
▼	520	Fern Green-DK	987	Forest Green-DK
☾	3011	Khaki Green-DK	3345	Hunter Green-DK
т	320	Pistachio Green-MD	522	Fern Green
2	522	Fern Green	563	Jade-LT
н	647	Beaver Gray-MD	3817	Celadon Green-LT
	563	Jade-LT	927	Gray Green-LT
■	935	Avocado Green-DK	3815	Celadon Green-DK
▲	434	Brown-LT	920	Copper-MD
◇	400	Mahogany-DK	3829	Old Gold-VY DK



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	322	126	307	120	276	108
223	Shell Pink-LT	257	101	244	96	220	86
224	Shell Pink-VY LT	462	181	440	173	396	155
225	Shell Pink-UL VY LT	202	79	193	75	173	68
300	Mahogany-VY DK	1814	714	1727	679	1554	611
310	Black	3799	1495	3618	1424	3256	1281
320	Pistachio Green-MD	187	73	178	70	160	62
352	Coral-LT	20	7	19	7	17	6
353	Peach	246	96	234	92	211	83
356	Terra Cotta-MD	33	12	31	12	28	11
367	Pistachio Green-DK	59	23	56	22	51	20
371	Mustard	48	18	46	18	41	16
372	Mustard-LT	148	58	141	55	127	50
400	Mahogany-DK	591	232	563	221	507	199
402	Mahogany-VY LT	31	12	29	11	26	10
407	Desert Sand-DK	111	43	106	41	95	37
415	Pearl Gray	57	22	54	21	48	18
420	Hazelnut Brown-DK	377	148	359	141	323	127
422	Hazelnut Brown-LT	112	44	107	42	96	37
433	Brown-MD	1031	405	982	386	883	347
434	Brown-LT	553	217	526	207	474	186
435	Brown-VY LT	58	22	56	22	50	19
436	Tan	6	2	6	2	5	1
437	Tan-LT	17	6	16	6	14	5
451	Shell Gray-DK	249	98	238	93	214	84
452	Shell Gray-MD	363	142	346	136	311	122
453	Shell Gray-LT	607	238	578	227	520	204
500	Blue Green-VY DK	176	69	168	66	151	59
502	Blue Green	42	16	40	15	36	14
503	Blue Green-MD	98	38	93	36	84	33
520	Fern Green-DK	205	80	196	77	176	69
522	Fern Green	95	37	91	35	82	32
535	Ash Gray-VY LT	130	51	124	48	111	43
543	Beige Brown-UL VY LT	263	103	251	98	225	88
563	Jade-LT	53	20	50	19	45	17
610	Drab Brown-DK	1595	627	1519	598	1367	538
611	Drab Brown	213	83	203	79	182	71
612	Drab Brown-LT	168	66	160	62	144	56
632	Desert Sand-UL VY DK	387	152	369	145	332	130
640	Beige Gray-VY DK	589	231	561	220	505	198
642	Beige Gray-DK	207	81	198	77	178	70
645	Beaver Gray-VY DK	581	228	553	217	498	196
646	Beaver Gray-DK	392	154	374	147	336	132
647	Beaver Gray-MD	1167	459	1111	437	1000	393
648	Beaver Gray-LT	539	212	513	201	462	181
680	Old Gold-DK	61	24	58	22	52	20
712	Cream	675	265	642	252	578	227
722	Orange Spice-LT	6	2	6	2	5	1
729	Old Gold-MD	24	9	23	9	21	8
738	Tan-VY LT	54	21	52	20	46	18
739	Tan-UL VY LT	173	68	165	64	148	58
745	Yellow-LT Pale	119	46	113	44	102	40
746	Off White	557	219	531	209	478	188

754	Peach-LT	210	82	200	78	180	70
758	Terra Cotta-VY LT	160	62	153	60	137	53
801	Coffee Brown-DK	1181	464	1125	442	1012	398
814	Garnet-DK	363	142	346	136	311	122
819	Baby Pink-LT	1733	682	1651	650	1486	585
829	Golden Olive-VY DK	5067	1994	4826	1900	4343	1709
830	Golden Olive-DK	170	66	162	63	145	57
834	Golden Olive-VY LT	11	4	10	3	9	3
839	Beige Brown-DK	249	98	237	93	214	84
842	Beige Brown-VY LT	311	122	296	116	266	104
844	Beaver Brown-UL DK	562	221	536	211	482	189
869	Hazelnut Brown-VY DK	1929	759	1837	723	1654	651
898	Coffee Brown-VY DK	4919	1936	4685	1844	4216	1659
909	Emerald Green-VY DK	37	14	35	13	32	12
918	Red Copper-DK	818	322	779	306	701	275
919	Red Copper	168	66	160	62	144	56
920	Copper-MD	380	149	362	142	326	128
924	Gray Green-VY DK	63	24	60	23	54	21
926	Gray Green-MD	30	11	28	11	25	9
927	Gray Green-LT	117	46	111	43	100	39
934	Black Avocado Green	2879	1133	2742	1079	2468	971
935	Avocado Green-DK	805	316	767	301	690	271
936	Avocado Green-VY DK	1765	694	1681	661	1513	595
938	Coffee Brown-UL DK	4123	1623	3927	1546	3534	1391
948	Peach-VY LT	91	35	87	34	78	30
950	Desert Sand-LT	391	153	372	146	335	131
975	Golden Brown-DK	890	350	847	333	763	300
987	Forest Green-DK	87	34	83	32	75	29
993	Aquamarine-LT	46	18	44	17	39	15
3011	Khaki Green-DK	251	98	239	94	215	84
3021	Brown Gray-VY DK	1084	426	1032	406	929	365
3022	Brown Gray-MD	254	100	241	94	217	85
3031	Mocha Brown-VY DK	4188	1648	3988	1570	3589	1412
3032	Mocha Brown-MD	259	101	247	97	222	87
3046	Yellow Beige-MD	204	80	195	76	175	68
3053	Green Gray	49	19	46	18	42	16
3064	Desert Sand	28	11	27	10	24	9
3072	Beaver Gray-VY LT	307	120	293	115	263	103
3341	Apricot	51	20	48	18	43	16
3345	Hunter Green-DK	25	9	23	9	21	8
3362	Pine Green-DK	1227	483	1168	459	1051	413
3371	Black Brown	2660	1047	2533	997	2280	897
3712	Salmon-MD	6	2	6	2	5	1
3721	Shell Pink-DK	40	15	38	14	34	13
3753	Antique Blue-UL VY LT	7	2	6	2	6	2
3756	Baby Blue-UL VY LT	74	29	70	27	63	24
3770	Tawny-VY LT	57	22	54	21	48	18
3778	Terra Cotta-LT	77	30	74	29	66	25
3781	Mocha Brown-DK	6448	2538	6141	2417	5527	2175
3787	Brown Gray-DK	817	321	778	306	700	275
3790	Beige Gray-UL DK	683	268	651	256	586	230
3799	Pewter Gray-VY DK	117	46	112	44	101	39
3813	Blue Green-LT	281	110	267	105	240	94
3815	Celadon Green-DK	99	38	94	37	85	33
3816	Celadon Green-MD	53	20	51	20	45	17
3817	Celadon Green-LT	32	12	30	11	27	10
3823	Yellow-UL Pale	81	31	77	30	69	27
3825	Pumpkin-Pale	44	17	42	16	38	14
3827	Golden Brown-Pale	8	3	8	3	7	2

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3828	Hazelnut Brown	8	3	8	3	7	2
3829	Old Gold-VY DK	195	76	186	73	167	65
3830	Terra Cotta-MD	113	44	108	42	97	38
3849	Teal Green-LT	69	27	65	25	59	23
3855	Autumn Gold-LT	50	19	47	18	42	16
3856	Mahogany-UL VY LT	135	53	129	50	116	45
3857	Rosewood-DK	313	123	298	117	268	105
3859	Rosewood-LT	115	45	110	43	99	38
3861	Cocoa-LT	62	24	59	23	53	20
3862	Mocha Beige-DK	224	88	213	83	192	75
3863	Mocha Beige-MD	621	244	591	232	532	209
3864	Mocha Beige-LT	1386	545	1320	519	1188	467
3865	Winter White	508	200	484	190	435	171
3866	Mocha Brown-UL VY LT	380	149	362	142	325	127

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	497	194	414	162	207	81
223	Shell Pink-LT	396	155	330	129	165	65
224	Shell Pink-VY LT	713	279	594	233	297	116
225	Shell Pink-UL VY LT	311	122	260	102	130	51
300	Mahogany-VY DK	2797	1100	2331	917	1166	458
310	Black	5861	2306	4884	1922	2442	961
320	Pistachio Green-MD	288	112	240	93	120	47
352	Coral-LT	31	11	26	9	13	5
353	Peach	380	149	317	125	158	62
356	Terra Cotta-MD	50	20	42	17	21	8
367	Pistachio Green-DK	92	36	77	30	38	15
371	Mustard	74	29	62	24	31	12
372	Mustard-LT	229	90	191	75	95	38
400	Mahogany-DK	913	358	761	299	380	149
402	Mahogany-VY LT	47	18	39	15	20	8
407	Desert Sand-DK	171	67	143	56	71	28
415	Pearl Gray	86	32	72	27	36	14
420	Hazelnut Brown-DK	581	229	485	191	242	95
422	Hazelnut Brown-LT	173	67	144	56	72	28
433	Brown-MD	1589	625	1325	521	662	260
434	Brown-LT	853	335	711	279	356	140
435	Brown-VY LT	90	34	75	29	38	14
436	Tan	9	2	8	2	4	1
437	Tan-LT	25	9	21	8	11	4
451	Shell Gray-DK	385	151	321	126	161	63
452	Shell Gray-MD	560	220	467	183	233	92
453	Shell Gray-LT	936	367	780	306	390	153
500	Blue Green-VY DK	272	106	227	89	113	44
502	Blue Green	65	25	54	21	27	11
503	Blue Green-MD	151	59	126	50	63	25
520	Fern Green-DK	317	124	264	104	132	52
522	Fern Green	148	58	123	48	62	24
535	Ash Gray-VY LT	200	77	167	65	83	32
543	Beige Brown-UL VY LT	405	158	338	132	169	66
563	Jade-LT	81	31	68	26	34	13
610	Drab Brown-DK	2461	968	2051	807	1025	404
611	Drab Brown	328	128	273	107	137	53
612	Drab Brown-LT	259	101	216	84	108	42

632	Desert Sand-UL VY DK	598	234	498	195	249	98
640	Beige Gray-VY DK	909	356	758	297	379	149
642	Beige Gray-DK	320	126	267	105	134	53
645	Beaver Gray-VY DK	896	353	747	294	374	147
646	Beaver Gray-DK	605	238	504	198	252	99
647	Beaver Gray-MD	1800	707	1500	590	750	295
648	Beaver Gray-LT	832	326	693	272	347	136
680	Old Gold-DK	94	36	78	30	39	15
712	Cream	1040	409	867	341	434	170
722	Orange Spice-LT	9	2	8	2	4	1
729	Old Gold-MD	38	14	32	12	16	6
738	Tan-VY LT	83	32	69	27	35	14
739	Tan-UL VY LT	266	104	222	87	111	44
745	Yellow-LT Pale	184	72	153	60	77	30
746	Off White	860	338	717	282	359	141
754	Peach-LT	324	126	270	105	135	53
758	Terra Cotta-VY LT	247	95	206	80	103	40
801	Coffee Brown-DK	1822	716	1518	597	759	299
814	Garnet-DK	560	220	467	183	233	92
819	Baby Pink-LT	2675	1053	2229	878	1115	439
829	Golden Olive-VY DK	7817	3076	6515	2564	3257	1282
830	Golden Olive-DK	261	103	218	86	109	43
834	Golden Olive-VY LT	16	5	14	5	7	2
839	Beige Brown-DK	385	151	321	126	161	63
842	Beige Brown-VY LT	479	187	399	156	200	78
844	Beaver Brown-UL DK	868	340	723	284	362	142
869	Hazelnut Brown-VY DK	2977	1172	2481	977	1241	488
898	Coffee Brown-VY DK	7589	2986	6324	2489	3162	1244
909	Emerald Green-VY DK	58	22	48	18	24	9
918	Red Copper-DK	1262	495	1052	413	526	206
919	Red Copper	259	101	216	84	108	42
920	Copper-MD	587	230	489	192	245	96
924	Gray Green--VY DK	97	38	81	32	41	16
926	Gray Green-MD	45	16	38	14	19	7
927	Gray Green-LT	180	70	150	59	75	29
934	Black Avocado Green	4442	1748	3702	1457	1851	728
935	Avocado Green-DK	1242	488	1035	407	518	203
936	Avocado Green-VY DK	2723	1071	2270	893	1135	446
938	Coffee Brown-UL DK	6361	2504	5301	2087	2651	1043
948	Peach-VY LT	140	54	117	45	59	23
950	Desert Sand-LT	603	236	503	197	251	98
975	Golden Brown-DK	1373	540	1145	450	572	225
987	Forest Green-DK	135	52	113	44	56	22
993	Aquamarine-LT	70	27	59	23	29	11
3011	Khaki Green-DK	387	151	323	126	161	63
3021	Brown Gray-VY DK	1672	657	1394	548	697	274
3022	Brown Gray-MD	391	153	326	128	163	64
3031	Mocha Brown-VY DK	6460	2542	5384	2118	2692	1059
3032	Mocha Brown-MD	400	157	333	131	167	65
3046	Yellow Beige-MD	315	122	263	102	131	51
3053	Green Gray	76	29	63	24	32	12
3064	Desert Sand	43	16	36	14	18	7
3072	Beaver Gray-VY LT	473	185	395	155	197	77
3341	Apricot	77	29	65	24	32	12
3345	Hunter Green-DK	38	14	32	12	16	6
3362	Pine Green-DK	1892	743	1577	620	788	310
3371	Black Brown	4104	1615	3420	1346	1710	673
3712	Salmon-MD	9	2	8	2	4	1
3721	Shell Pink-DK	61	23	51	20	26	10

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3753	Antique Blue-UL VY LT	11	4	9	3	5	2
3756	Baby Blue-UL VY LT	113	43	95	36	47	18
3770	Tawny-VY LT	86	32	72	27	36	14
3778	Terra Cotta-LT	119	45	99	38	50	19
3781	Mocha Brown-DK	9949	3915	8291	3263	4145	1631
3787	Brown Gray-DK	1260	495	1050	413	525	206
3790	Beige Gray-UL DK	1055	414	879	345	440	173
3799	Pewter Gray-VY DK	182	70	152	59	76	29
3813	Blue Green-LT	432	169	360	141	180	71
3815	Celadon Green-DK	153	59	128	50	64	25
3816	Celadon Green-MD	81	31	68	26	34	13
3817	Celadon Green-LT	49	18	41	15	20	8
3823	Yellow-UL Pale	124	49	104	41	52	20
3825	Pumpkin-Pale	68	25	57	21	29	11
3827	Golden Brown-Pale	13	4	11	3	5	2
3828	Hazelnut Brown	13	4	11	3	5	2
3829	Old Gold-VY DK	301	117	251	98	125	49
3830	Terra Cotta-MD	175	68	146	57	73	29
3849	Teal Green-LT	106	41	89	35	44	17
3855	Autumn Gold-LT	76	29	63	24	32	12
3856	Mahogany-UL VY LT	209	81	174	68	87	34
3857	Rosewood-DK	482	189	402	158	201	79
3859	Rosewood-LT	178	68	149	57	74	29
3861	Cocoa-LT	95	36	80	30	40	15
3862	Mocha Beige-DK	346	135	288	113	144	56
3863	Mocha Beige-MD	958	376	798	314	399	157
3864	Mocha Beige-LT	2138	841	1782	701	891	350
3865	Winter White	783	308	653	257	326	128
3866	Mocha Brown-UL VY LT	585	229	488	191	244	95

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	199	78	191	75	184	72
223	Shell Pink-LT	158	62	152	60	147	57
224	Shell Pink-VY LT	285	112	274	107	264	103
225	Shell Pink-UL VY LT	125	49	120	47	115	45
300	Mahogany-VY DK	1119	440	1076	423	1036	407
310	Black	2344	922	2254	887	2171	854
320	Pistachio Green-MD	115	45	111	43	107	41
352	Coral-LT	12	4	12	4	11	4
353	Peach	152	60	146	57	141	55
356	Terra Cotta-MD	20	8	19	8	19	7
367	Pistachio Green-DK	37	14	35	14	34	13
371	Mustard	30	12	28	11	27	11
372	Mustard-LT	91	36	88	35	85	33
400	Mahogany-DK	365	143	351	138	338	133
402	Mahogany-VY LT	19	7	18	7	17	7
407	Desert Sand-DK	68	27	66	26	63	25
415	Pearl Gray	35	13	33	12	32	12
420	Hazelnut Brown-DK	233	91	224	88	215	85
422	Hazelnut Brown-LT	69	27	66	26	64	25
433	Brown-MD	636	250	611	240	589	231
434	Brown-LT	341	134	328	129	316	124
435	Brown-VY LT	36	14	35	13	33	13
436	Tan	4	1	3	1	3	1
437	Tan-LT	10	4	10	3	9	3

451	Shell Gray-DK	154	60	148	58	143	56
452	Shell Gray-MD	224	88	215	84	207	81
453	Shell Gray-LT	374	147	360	141	347	136
500	Blue Green-VY DK	109	42	105	41	101	39
502	Blue Green	26	10	25	10	24	9
503	Blue Green-MD	60	24	58	23	56	22
520	Fern Green-DK	127	50	122	48	117	46
522	Fern Green	59	23	57	22	55	21
535	Ash Gray-VY LT	80	31	77	30	74	29
543	Beige Brown-UL VY LT	162	63	156	61	150	59
563	Jade-LT	32	12	31	12	30	11
610	Drab Brown-DK	984	387	946	372	911	359
611	Drab Brown	131	51	126	49	121	47
612	Drab Brown-LT	104	40	100	39	96	37
632	Desert Sand-UL VY DK	239	94	230	90	221	87
640	Beige Gray-VY DK	364	143	350	137	337	132
642	Beige Gray-DK	128	50	123	48	119	47
645	Beaver Gray-VY DK	359	141	345	136	332	131
646	Beaver Gray-DK	242	95	233	91	224	88
647	Beaver Gray-MD	720	283	692	272	667	262
648	Beaver Gray-LT	333	130	320	125	308	121
680	Old Gold-DK	37	14	36	14	35	13
712	Cream	416	163	400	157	385	151
722	Orange Spice-LT	4	1	3	1	3	1
729	Old Gold-MD	15	6	15	6	14	5
738	Tan-VY LT	33	13	32	12	31	12
739	Tan-UL VY LT	107	42	102	40	99	39
745	Yellow-LT Pale	73	29	71	28	68	27
746	Off White	344	135	331	130	319	125
754	Peach-LT	130	50	125	48	120	47
758	Terra Cotta-VY LT	99	38	95	37	91	35
801	Coffee Brown-DK	729	287	701	276	675	265
814	Garnet-DK	224	88	215	84	207	81
819	Baby Pink-LT	1070	421	1029	405	991	390
829	Golden Olive-VY DK	3127	1230	3007	1183	2895	1139
830	Golden Olive-DK	104	41	100	39	97	38
834	Golden Olive-VY LT	6	2	6	2	6	2
839	Beige Brown-DK	154	60	148	58	143	56
842	Beige Brown-VY LT	192	75	184	72	177	69
844	Beaver Brown-UL DK	347	136	334	131	321	126
869	Hazelnut Brown-VY DK	1191	469	1145	451	1103	434
898	Coffee Brown-VY DK	3036	1194	2919	1149	2811	1106
909	Emerald Green-VY DK	23	9	22	8	21	8
918	Red Copper-DK	505	198	485	190	467	183
919	Red Copper	104	40	100	39	96	37
920	Copper-MD	235	92	226	89	217	85
924	Gray Green--VY DK	39	15	37	15	36	14
926	Gray Green-MD	18	6	17	6	17	6
927	Gray Green-LT	72	28	69	27	67	26
934	Black Avocado Green	1777	699	1709	672	1645	647
935	Avocado Green-DK	497	195	478	188	460	181
936	Avocado Green-VY DK	1089	428	1047	412	1009	397
938	Coffee Brown-UL DK	2544	1002	2447	963	2356	927
948	Peach-VY LT	56	22	54	21	52	20
950	Desert Sand-LT	241	94	232	91	223	87
975	Golden Brown-DK	549	216	528	208	509	200
987	Forest Green-DK	54	21	52	20	50	19
993	Aquamarine-LT	28	11	27	10	26	10
3011	Khaki Green-DK	155	60	149	58	143	56

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3021	Brown Gray-VY DK	669	263	643	253	619	243
3022	Brown Gray-MD	156	61	150	59	145	57
3031	Mocha Brown-VY DK	2584	1017	2485	978	2393	941
3032	Mocha Brown-MD	160	63	154	60	148	58
3046	Yellow Beige-MD	126	49	121	47	117	45
3053	Green Gray	30	12	29	11	28	11
3064	Desert Sand	17	6	17	6	16	6
3072	Beaver Gray-VY LT	189	74	182	71	175	69
3341	Apricot	31	12	30	11	29	11
3345	Hunter Green-DK	15	6	15	6	14	5
3362	Pine Green-DK	757	297	728	286	701	275
3371	Black Brown	1642	646	1578	621	1520	598
3712	Salmon-MD	4	1	3	1	3	1
3721	Shell Pink-DK	24	9	24	9	23	9
3753	Antique Blue-UL VY LT	4	1	4	1	4	1
3756	Baby Blue-UL VY LT	45	17	44	17	42	16
3770	Tawny-VY LT	35	13	33	12	32	12
3778	Terra Cotta-LT	48	18	46	17	44	17
3781	Mocha Brown-DK	3979	1566	3826	1506	3685	1450
3787	Brown Gray-DK	504	198	485	190	467	183
3790	Beige Gray-UL DK	422	166	406	159	391	153
3799	Pewter Gray-VY DK	73	28	70	27	67	26
3813	Blue Green-LT	173	68	166	65	160	63
3815	Celadon Green-DK	61	24	59	23	57	22
3816	Celadon Green-MD	32	12	31	12	30	11
3817	Celadon Green-LT	19	7	19	7	18	7
3823	Yellow-UL Pale	50	19	48	19	46	18
3825	Pumpkin-Pale	27	10	26	10	25	9
3827	Golden Brown-Pale	5	1	5	1	5	1
3828	Hazelnut Brown	5	1	5	1	5	1
3829	Old Gold-VY DK	120	47	116	45	111	43
3830	Terra Cotta-MD	70	27	67	26	65	25
3849	Teal Green-LT	42	17	41	16	39	15
3855	Autumn Gold-LT	30	12	29	11	28	11
3856	Mahogany-UL VY LT	84	32	80	31	77	30
3857	Rosewood-DK	193	76	186	73	179	70
3859	Rosewood-LT	71	27	69	26	66	25
3861	Cocoa-LT	38	14	37	14	35	13
3862	Mocha Beige-DK	138	54	133	52	128	50
3863	Mocha Beige-MD	383	150	368	145	355	139
3864	Mocha Beige-LT	855	336	822	323	792	311
3865	Winter White	313	123	301	118	290	114
3866	Mocha Brown-UL VY LT	234	91	225	88	217	85

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	177	69	166	65	155	61
223	Shell Pink-LT	141	55	132	52	124	48
224	Shell Pink-VY LT	255	100	238	93	223	87
225	Shell Pink-UL VY LT	111	44	104	41	97	38
300	Mahogany-VY DK	999	393	932	367	874	344
310	Black	2093	824	1954	769	1832	721
320	Pistachio Green-MD	103	40	96	37	90	35
352	Coral-LT	11	4	10	4	10	3
353	Peach	136	53	127	50	119	47
356	Terra Cotta-MD	18	7	17	7	16	6

367	Pistachio Green-DK	33	13	31	12	29	11
371	Mustard	26	10	25	10	23	9
372	Mustard-LT	82	32	76	30	71	28
400	Mahogany-DK	326	128	304	119	285	112
402	Mahogany-VY LT	17	6	16	6	15	6
407	Desert Sand-DK	61	24	57	22	53	21
415	Pearl Gray	31	12	29	11	27	10
420	Hazelnut Brown-DK	208	82	194	76	182	71
422	Hazelnut Brown-LT	62	24	58	22	54	21
433	Brown-MD	568	223	530	208	497	195
434	Brown-LT	305	120	284	112	267	105
435	Brown-VY LT	32	12	30	11	28	11
436	Tan	3	1	3	1	3	1
437	Tan-LT	9	3	8	3	8	3
451	Shell Gray-DK	138	54	128	50	120	47
452	Shell Gray-MD	200	78	187	73	175	69
453	Shell Gray-LT	334	131	312	122	293	115
500	Blue Green-VY DK	97	38	91	35	85	33
502	Blue Green	23	9	22	8	20	8
503	Blue Green-MD	54	21	50	20	47	19
520	Fern Green-DK	113	44	106	41	99	39
522	Fern Green	53	21	49	19	46	18
535	Ash Gray-VY LT	71	28	67	26	62	24
543	Beige Brown-UL VY LT	145	57	135	53	127	50
563	Jade-LT	29	11	27	10	25	10
610	Drab Brown-DK	879	346	820	323	769	303
611	Drab Brown	117	46	109	43	102	40
612	Drab Brown-LT	93	36	86	34	81	32
632	Desert Sand-UL VY DK	213	84	199	78	187	73
640	Beige Gray-VY DK	325	127	303	119	284	111
642	Beige Gray-DK	114	45	107	42	100	39
645	Beaver Gray-VY DK	320	126	299	118	280	110
646	Beaver Gray-DK	216	85	202	79	189	74
647	Beaver Gray-MD	643	253	600	236	563	221
648	Beaver Gray-LT	297	116	277	109	260	102
680	Old Gold-DK	33	13	31	12	29	11
712	Cream	372	146	347	136	325	128
722	Orange Spice-LT	3	1	3	1	3	1
729	Old Gold-MD	14	5	13	5	12	5
738	Tan-VY LT	30	12	28	11	26	10
739	Tan-UL VY LT	95	37	89	35	83	33
745	Yellow-LT Pale	66	26	61	24	57	23
746	Off White	307	121	287	113	269	106
754	Peach-LT	116	45	108	42	101	39
758	Terra Cotta-VY LT	88	34	82	32	77	30
801	Coffee Brown-DK	651	256	607	239	569	224
814	Garnet-DK	200	78	187	73	175	69
819	Baby Pink-LT	955	376	892	351	836	329
829	Golden Olive-VY DK	2792	1099	2606	1025	2443	961
830	Golden Olive-DK	93	37	87	34	82	32
834	Golden Olive-VY LT	6	2	5	2	5	2
839	Beige Brown-DK	138	54	128	50	120	47
842	Beige Brown-VY LT	171	67	160	62	150	59
844	Beaver Brown-UL DK	310	122	289	113	271	106
869	Hazelnut Brown-VY DK	1063	419	992	391	930	366
898	Coffee Brown-VY DK	2710	1067	2530	995	2372	933
909	Emerald Green-VY DK	21	8	19	7	18	7
918	Red Copper-DK	451	177	421	165	394	155
919	Red Copper	93	36	86	34	81	32

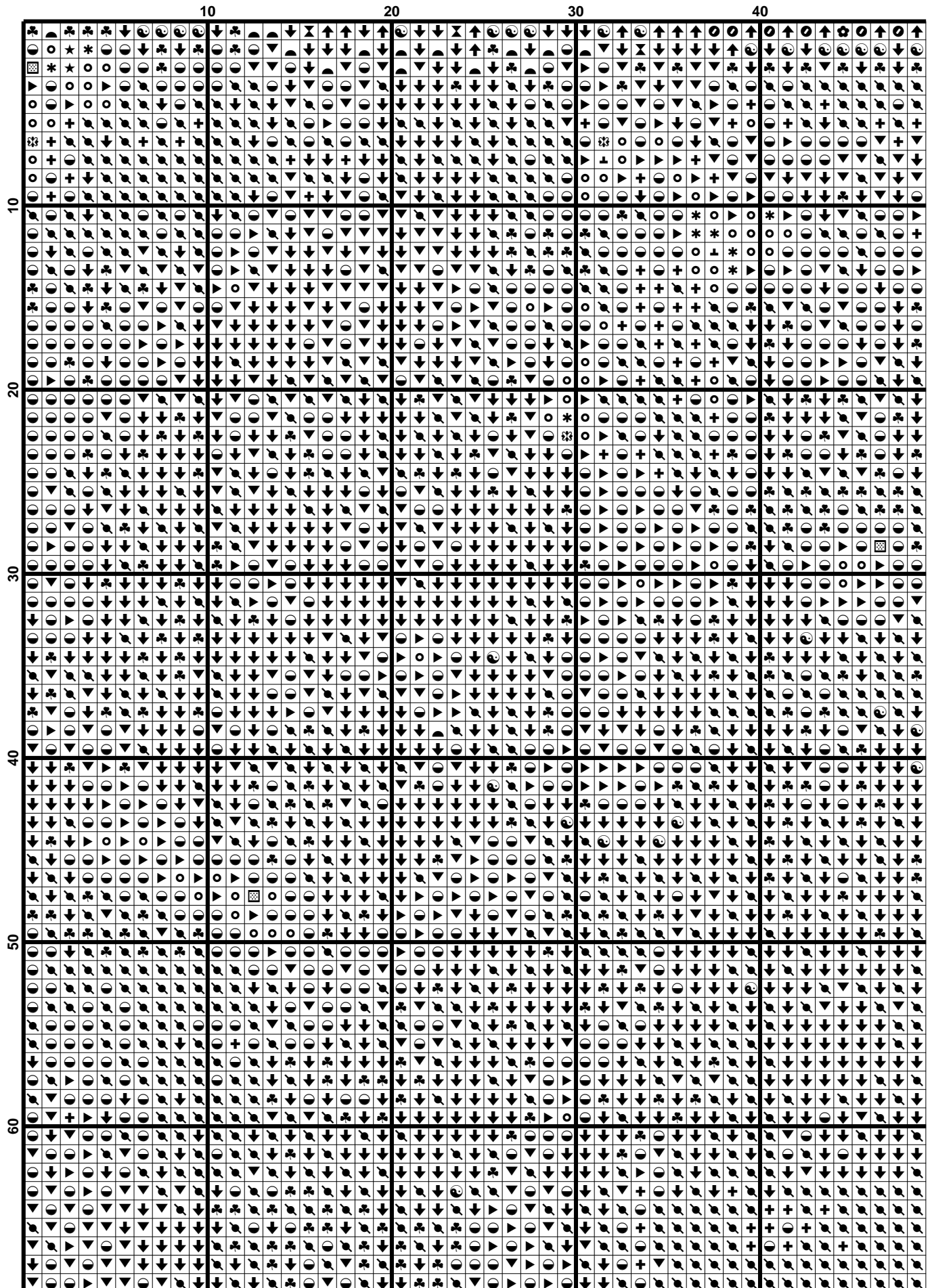
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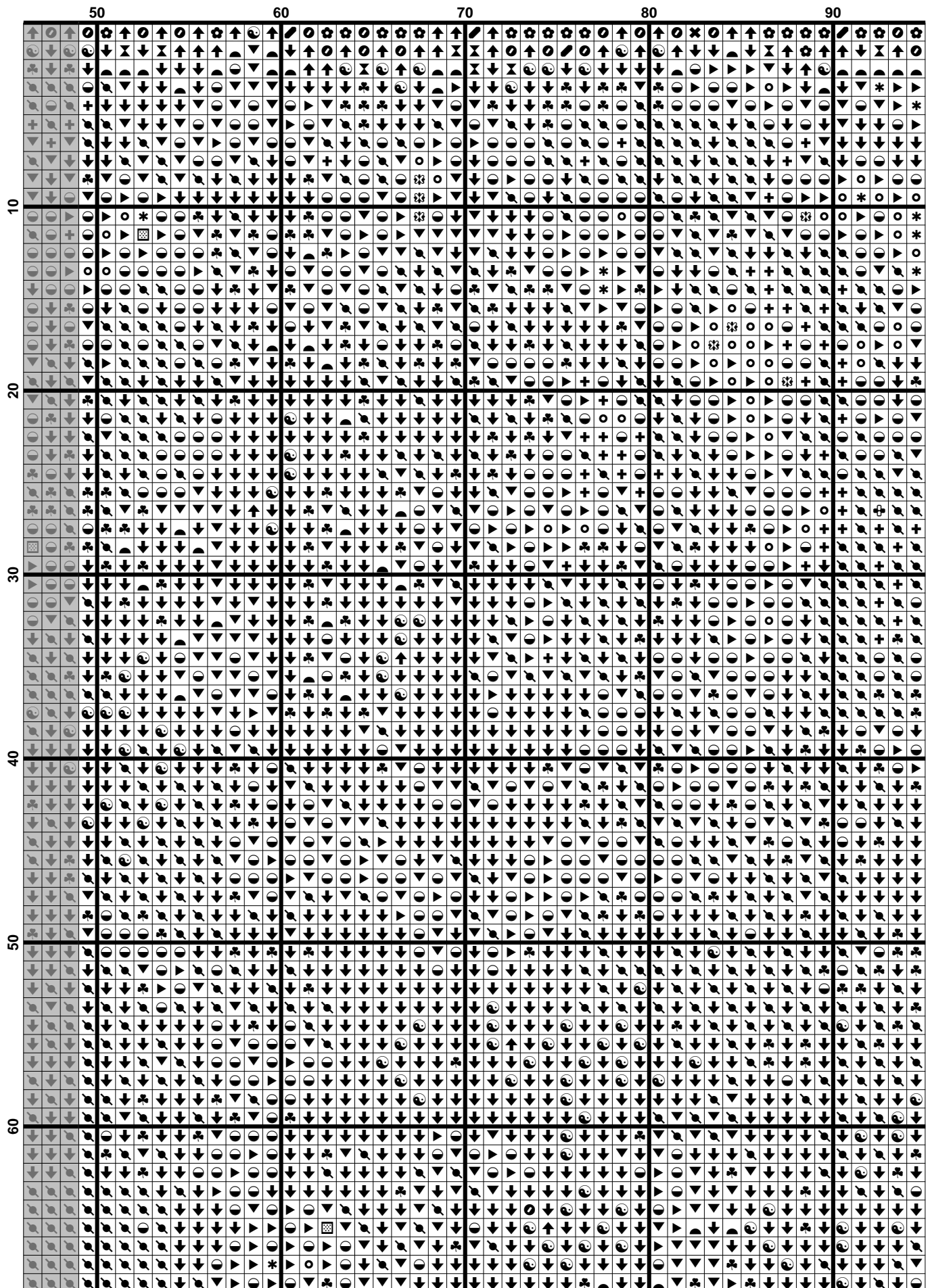
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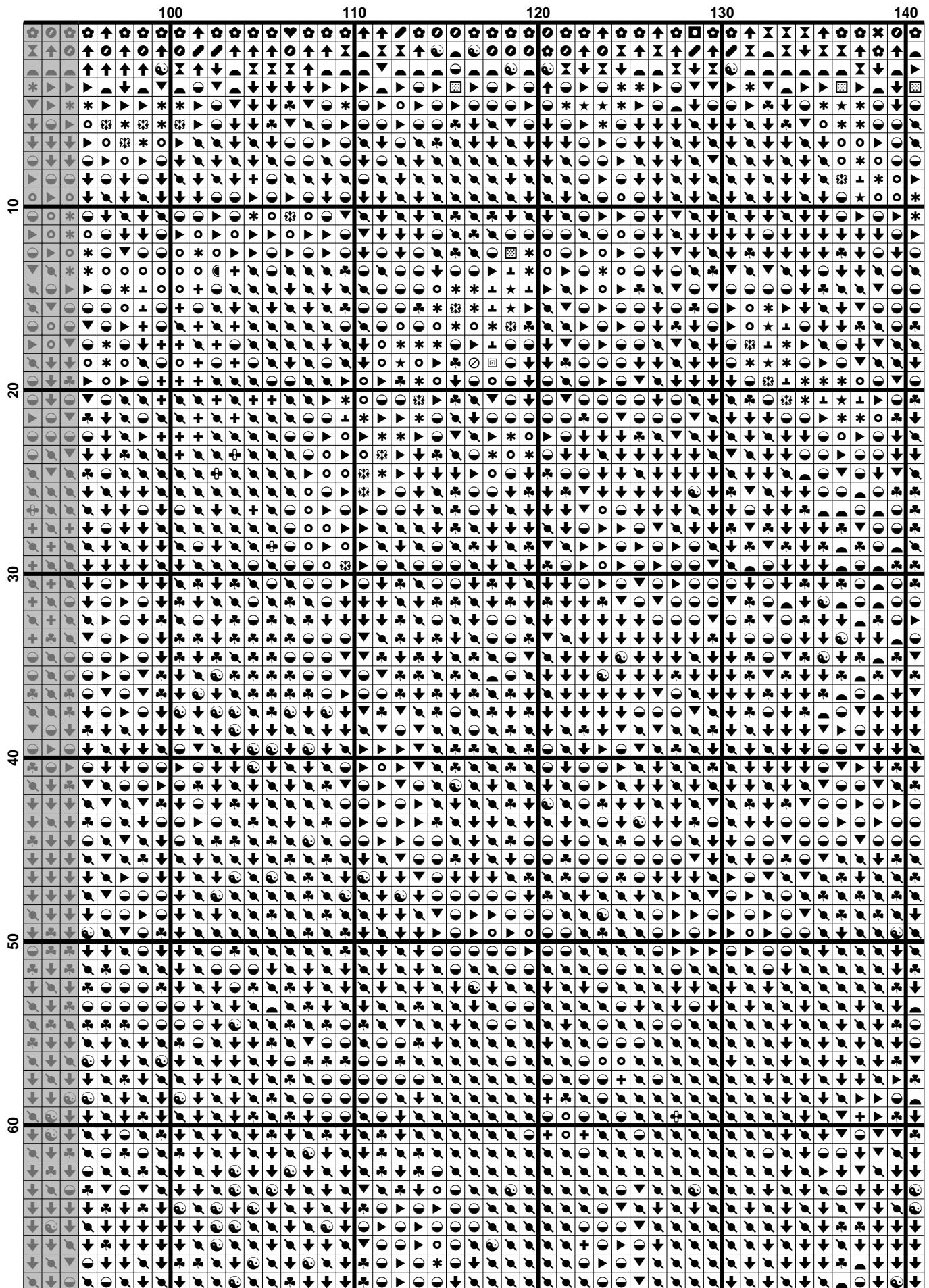
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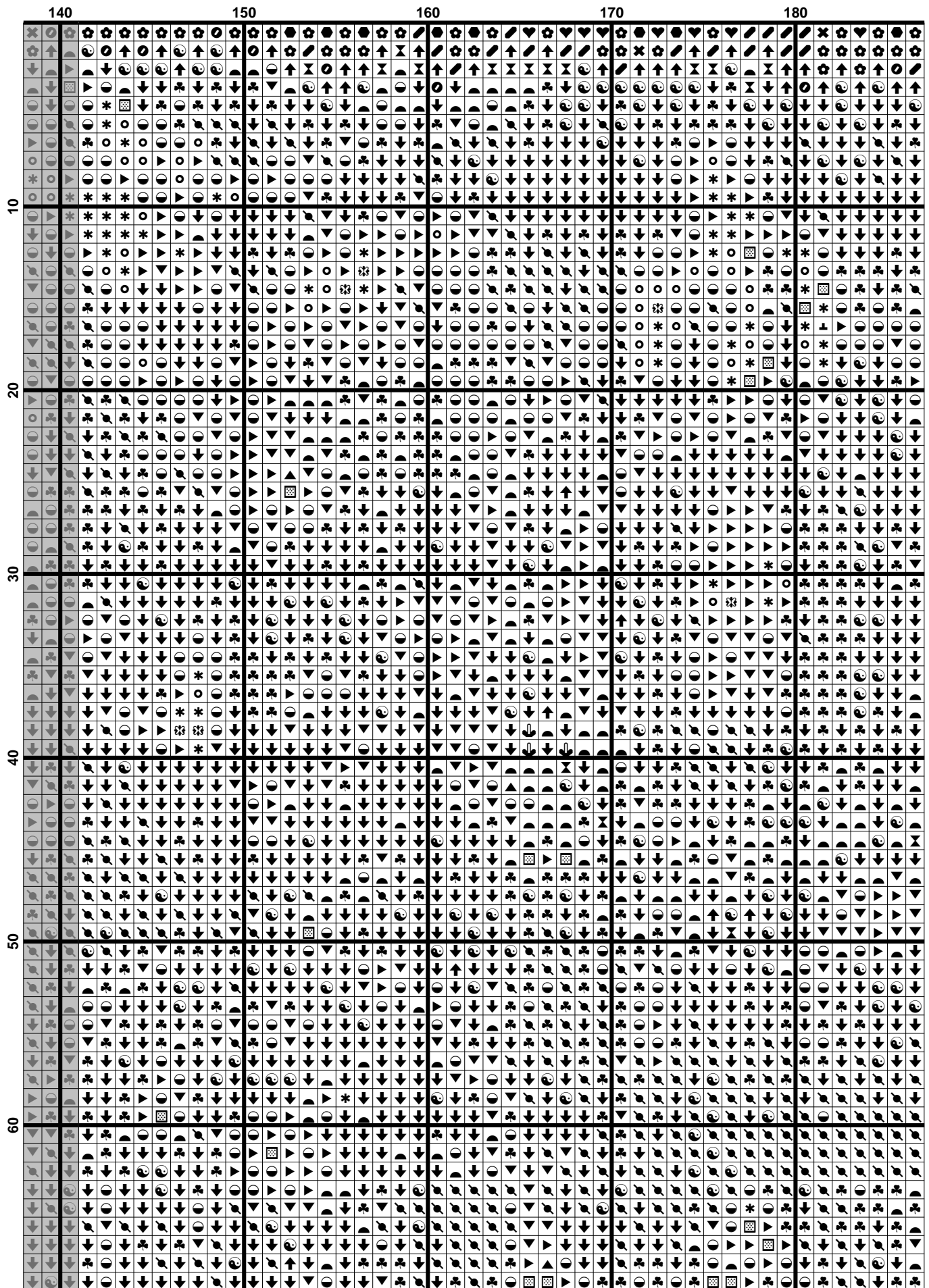


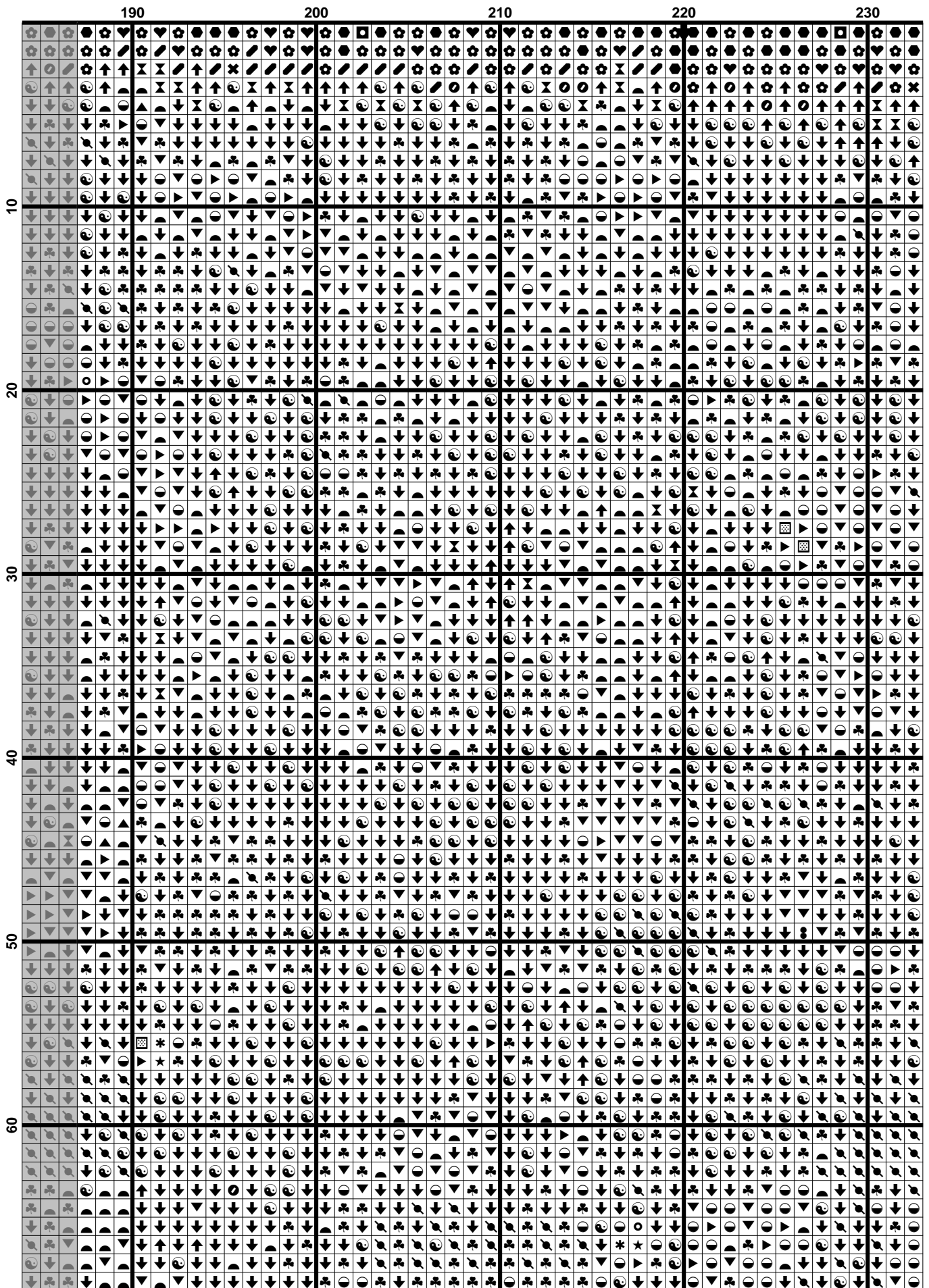
920	Copper-MD	210	82	196	77	183	72
924	Gray Green--VY DK	35	14	32	13	30	12
926	Gray Green-MD	16	6	15	5	14	5
927	Gray Green-LT	64	25	60	23	56	22
934	Black Avocado Green	1587	624	1481	583	1388	546
935	Avocado Green-DK	444	174	414	163	388	152
936	Avocado Green-VY DK	973	383	908	357	851	335
938	Coffee Brown-UL DK	2272	894	2120	835	1988	782
948	Peach-VY LT	50	19	47	18	44	17
950	Desert Sand-LT	215	84	201	79	188	74
975	Golden Brown-DK	491	193	458	180	429	169
987	Forest Green-DK	48	19	45	17	42	16
993	Aquamarine-LT	25	10	23	9	22	8
3011	Khaki Green-DK	138	54	129	50	121	47
3021	Brown Gray-VY DK	597	235	557	219	523	205
3022	Brown Gray-MD	140	55	130	51	122	48
3031	Mocha Brown-VY DK	2307	908	2153	847	2019	794
3032	Mocha Brown-MD	143	56	133	52	125	49
3046	Yellow Beige-MD	113	44	105	41	98	38
3053	Green Gray	27	10	25	10	24	9
3064	Desert Sand	15	6	14	5	14	5
3072	Beaver Gray-VY LT	169	66	158	62	148	58
3341	Apricot	28	10	26	10	24	9
3345	Hunter Green-DK	14	5	13	5	12	5
3362	Pine Green-DK	676	266	631	248	591	232
3371	Black Brown	1466	577	1368	538	1283	505
3712	Salmon-MD	3	1	3	1	3	1
3721	Shell Pink-DK	22	8	20	8	19	7
3753	Antique Blue-UL VY LT	4	1	4	1	3	1
3756	Baby Blue-UL VY LT	41	15	38	14	35	14
3770	Tawny-VY LT	31	12	29	11	27	10
3778	Terra Cotta-LT	42	16	40	15	37	14
3781	Mocha Brown-DK	3553	1398	3316	1305	3109	1223
3787	Brown Gray-DK	450	177	420	165	394	155
3790	Beige Gray-UL DK	377	148	352	138	330	129
3799	Pewter Gray-VY DK	65	25	61	23	57	22
3813	Blue Green-LT	154	60	144	56	135	53
3815	Celadon Green-DK	55	21	51	20	48	19
3816	Celadon Green-MD	29	11	27	10	25	10
3817	Celadon Green-LT	17	6	16	6	15	6
3823	Yellow-UL Pale	44	17	41	16	39	15
3825	Pumpkin-Pale	24	9	23	8	21	8
3827	Golden Brown-Pale	5	1	4	1	4	1
3828	Hazelnut Brown	5	1	4	1	4	1
3829	Old Gold-VY DK	107	42	100	39	94	37
3830	Terra Cotta-MD	62	24	58	23	55	21
3849	Teal Green-LT	38	15	35	14	33	13
3855	Autumn Gold-LT	27	10	25	10	24	9
3856	Mahogany-UL VY LT	75	29	70	27	65	25
3857	Rosewood-DK	172	68	161	63	151	59
3859	Rosewood-LT	64	24	59	23	56	21
3861	Cocoa-LT	34	13	32	12	30	11
3862	Mocha Beige-DK	123	48	115	45	108	42
3863	Mocha Beige-MD	342	134	319	125	299	118
3864	Mocha Beige-LT	764	300	713	280	668	263
3865	Winter White	280	110	261	103	245	96
3866	Mocha Brown-UL VY LT	209	82	195	76	183	71



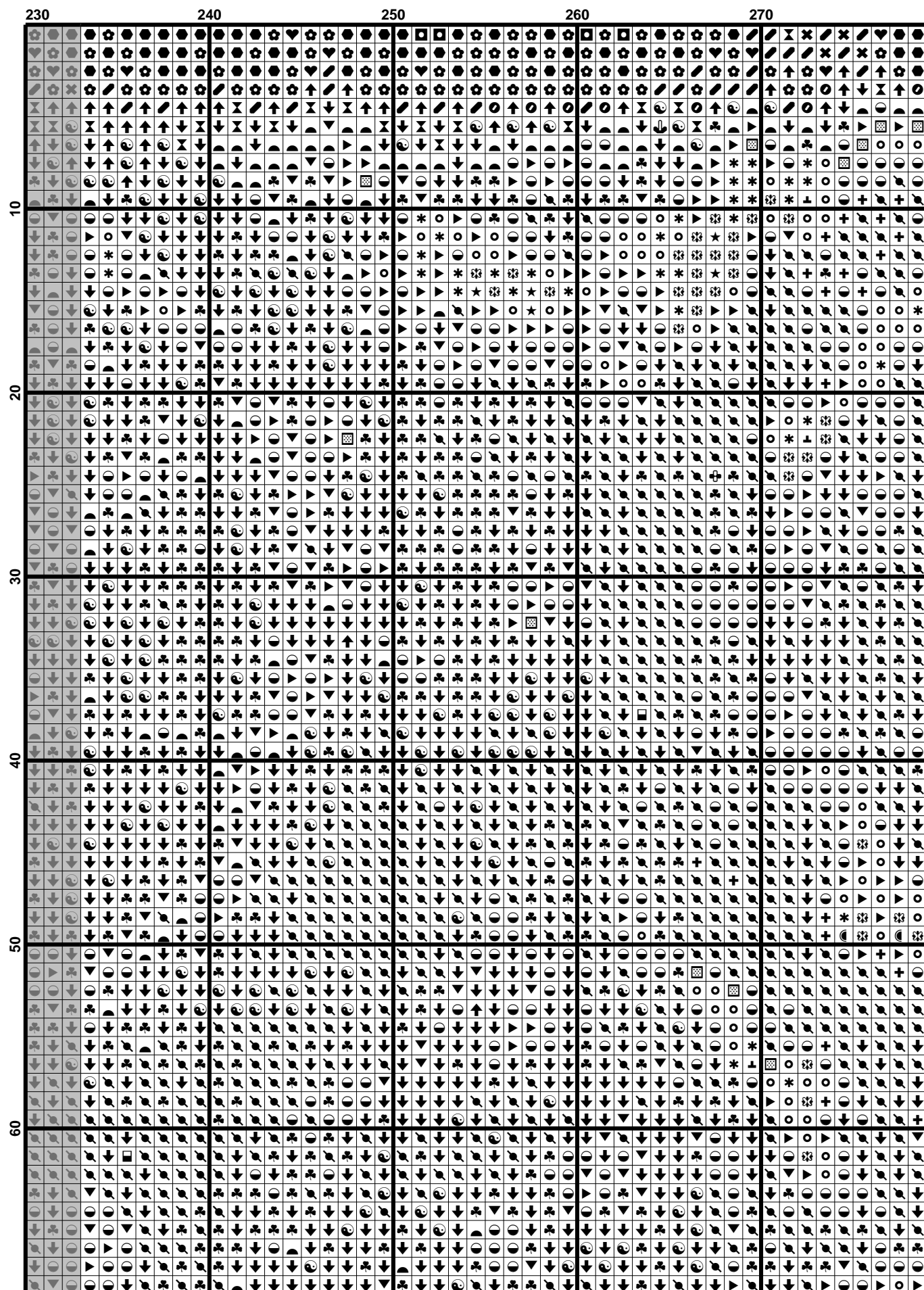




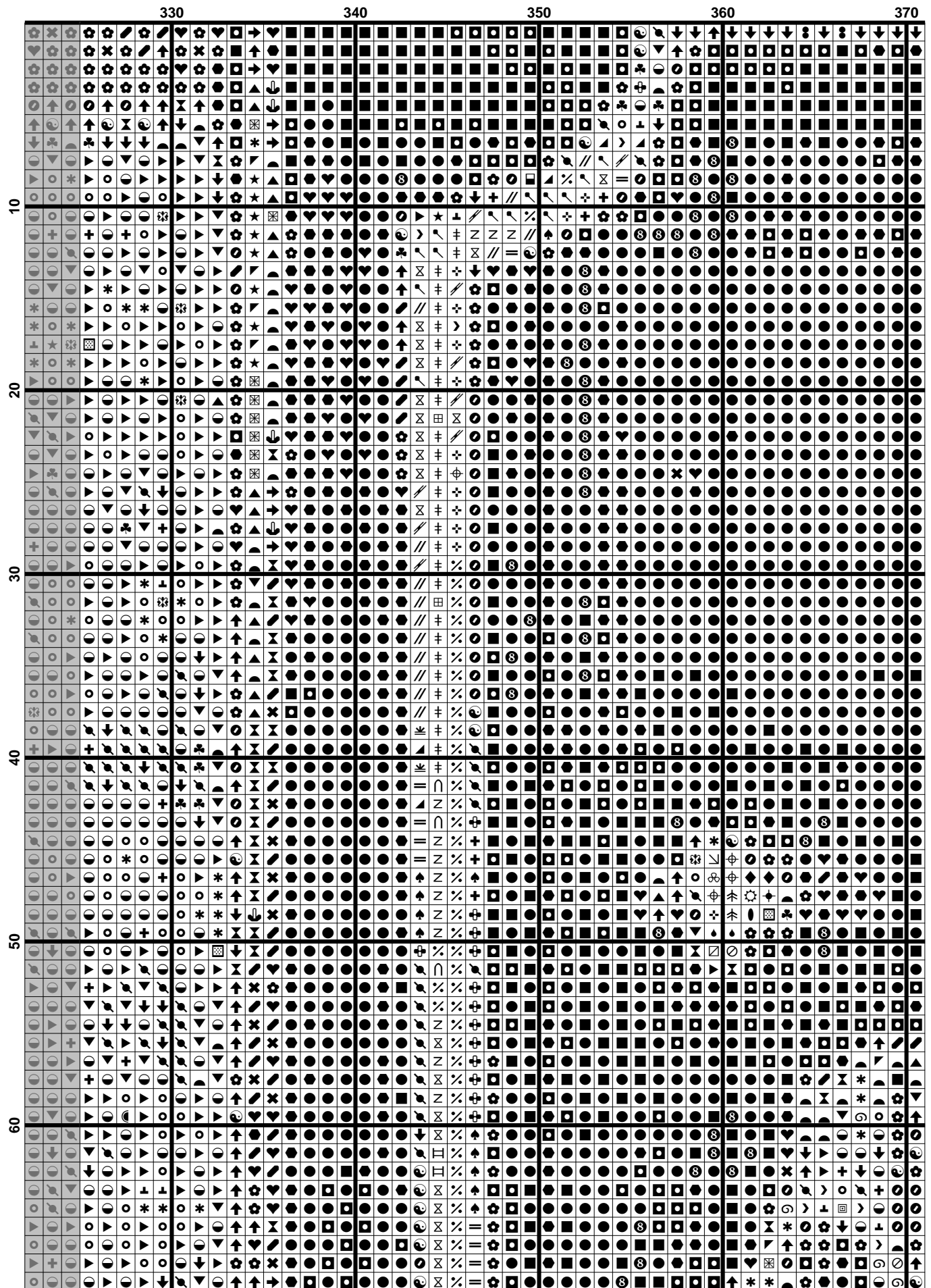


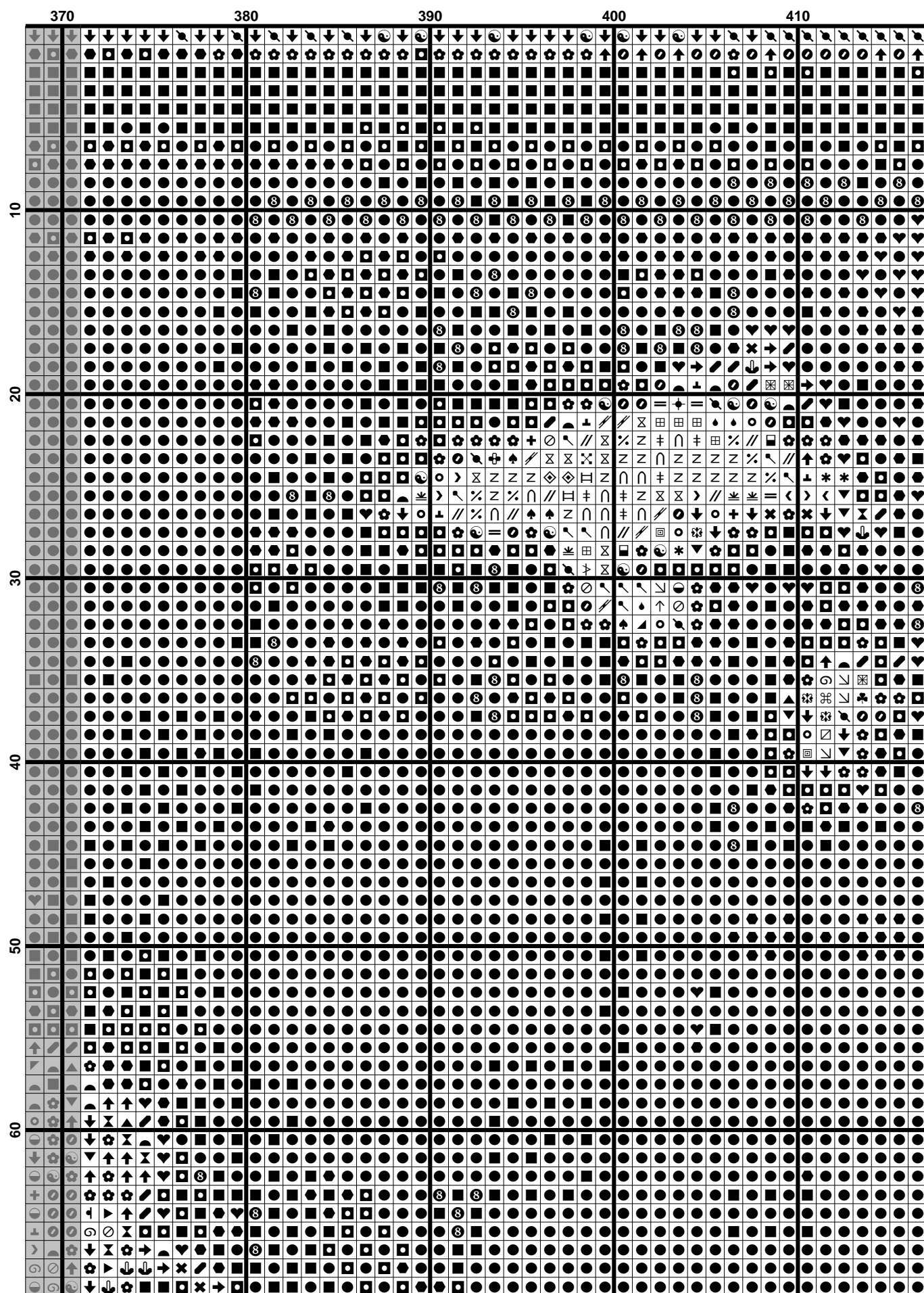


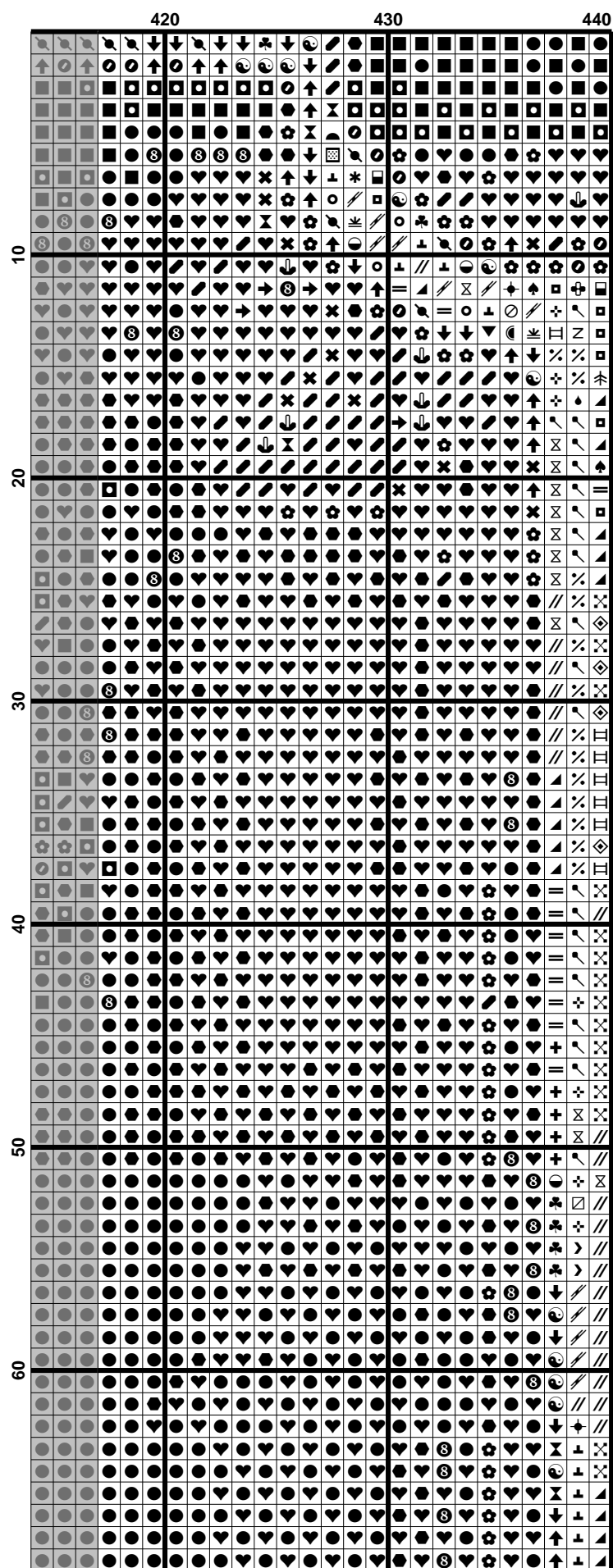




[illegible]

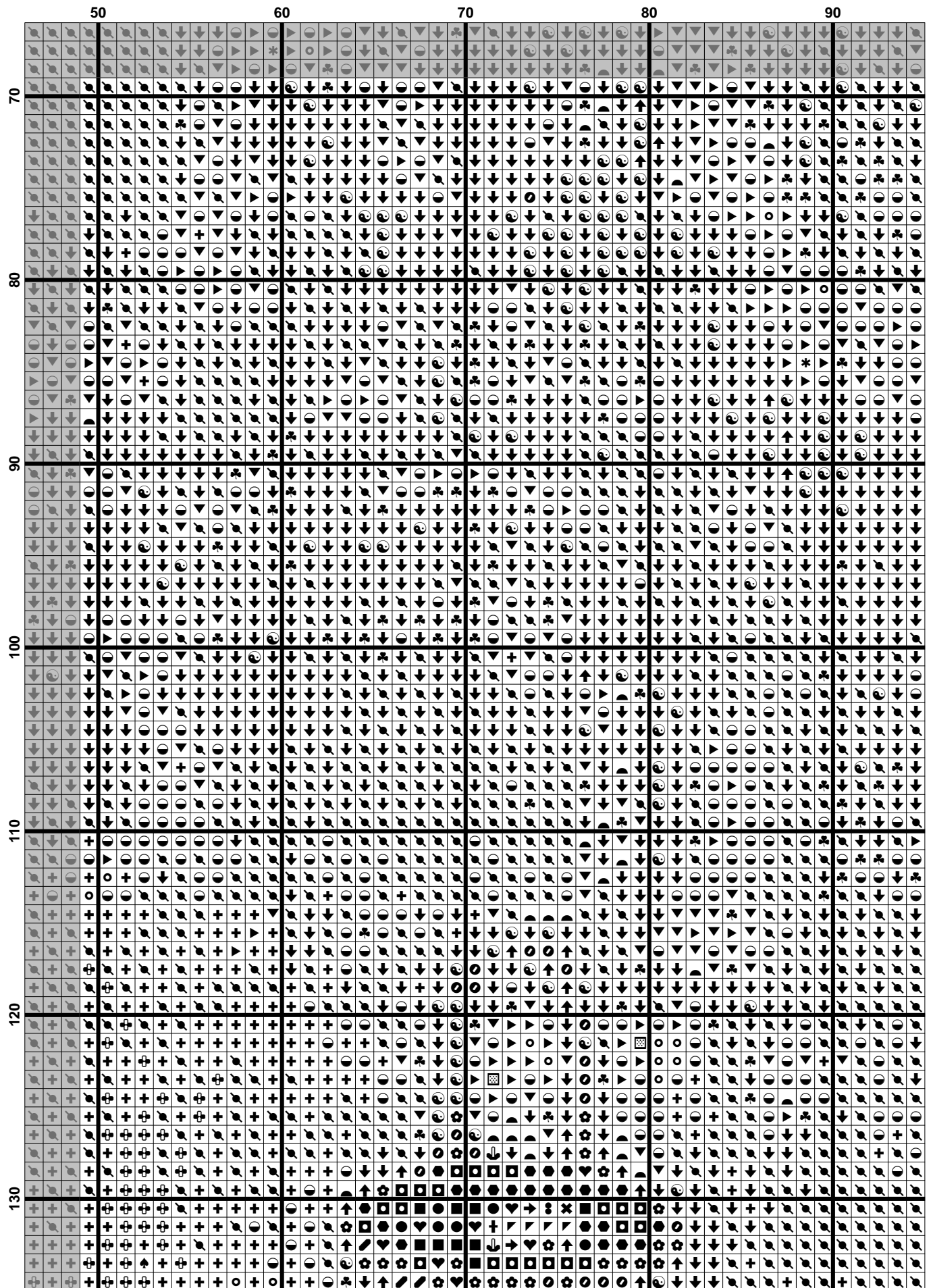






		10	20	30	40
70					
80					
90					
100					
110					
120					
130					

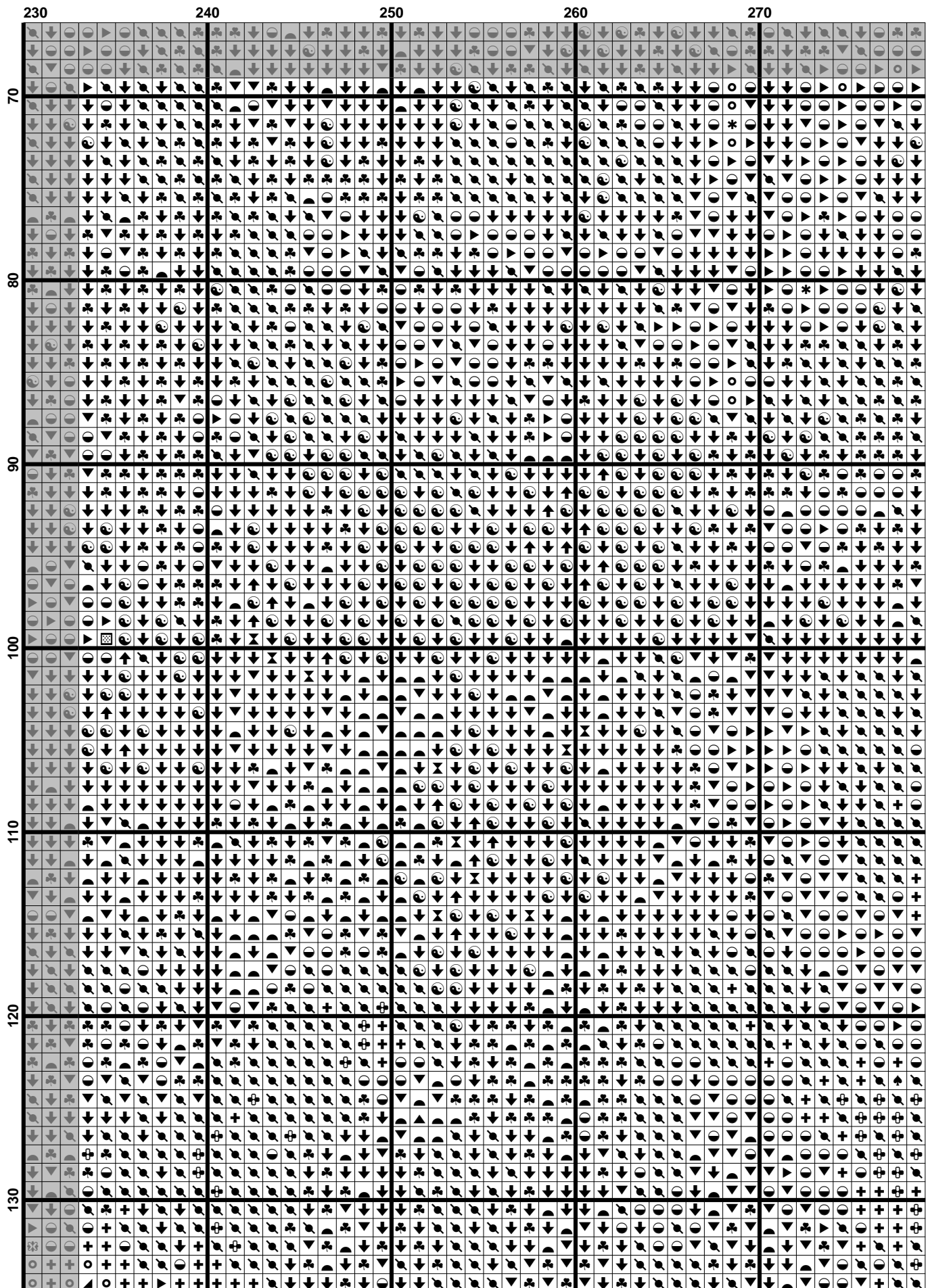




$$(23) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (24)$$

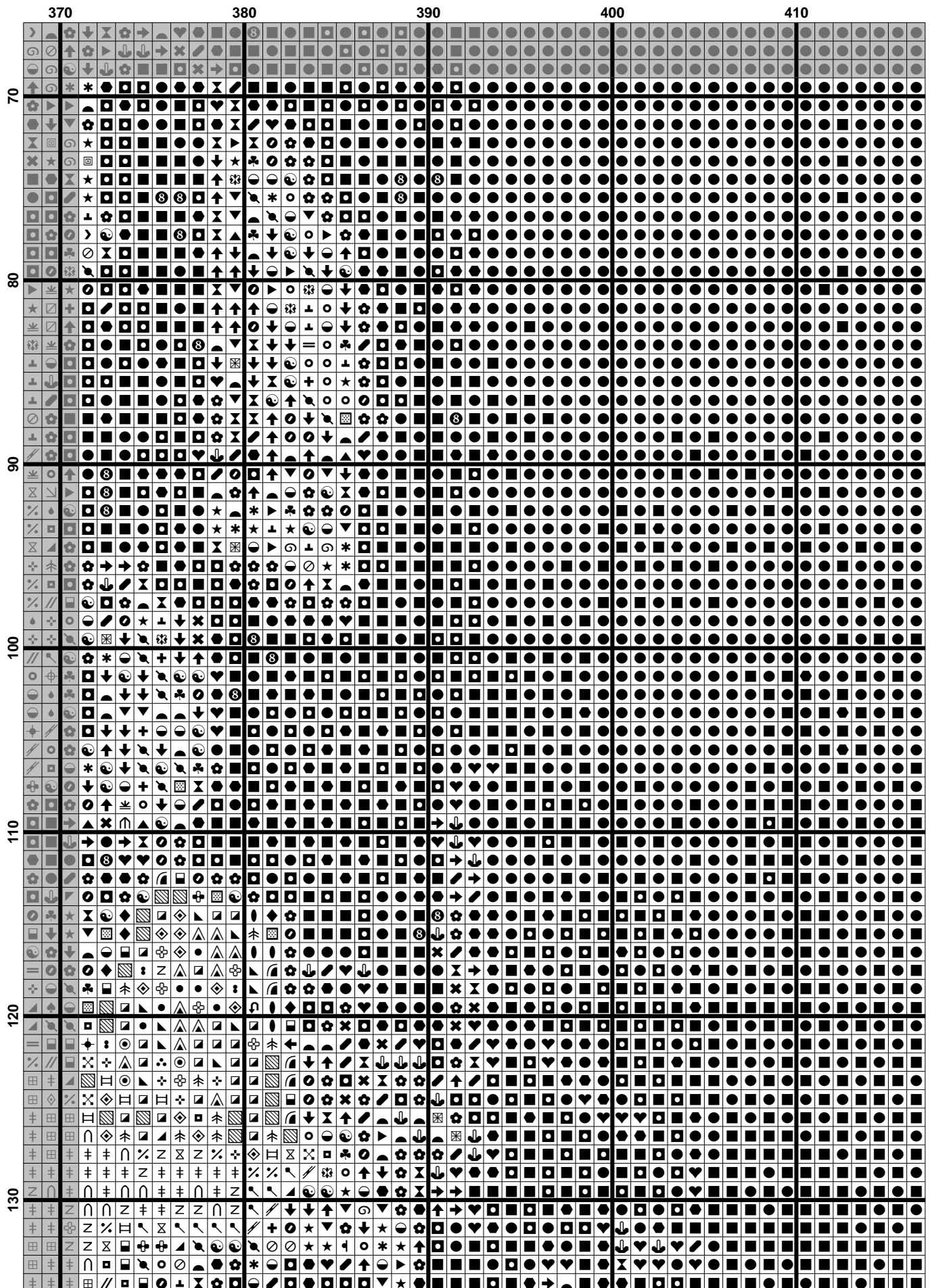
[illegible]

$$(25) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (26)$$

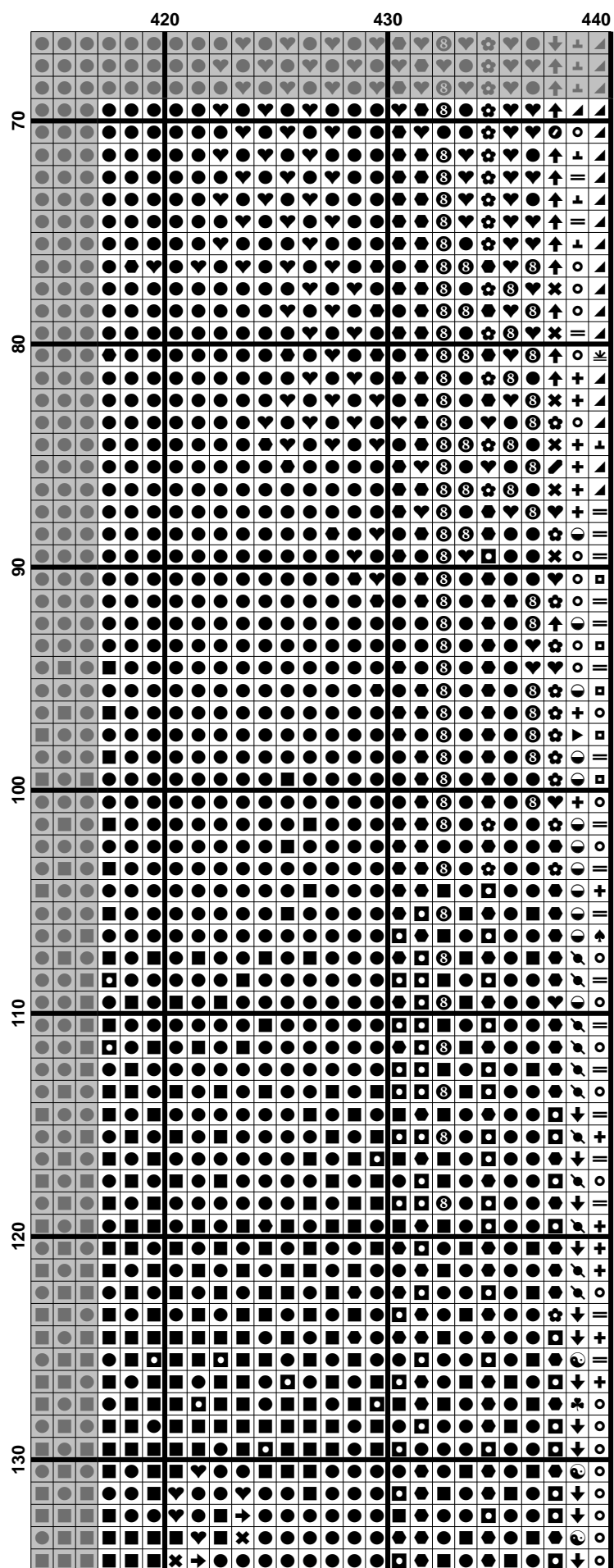


$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

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







[illegible]

[illegible]

[illegible]

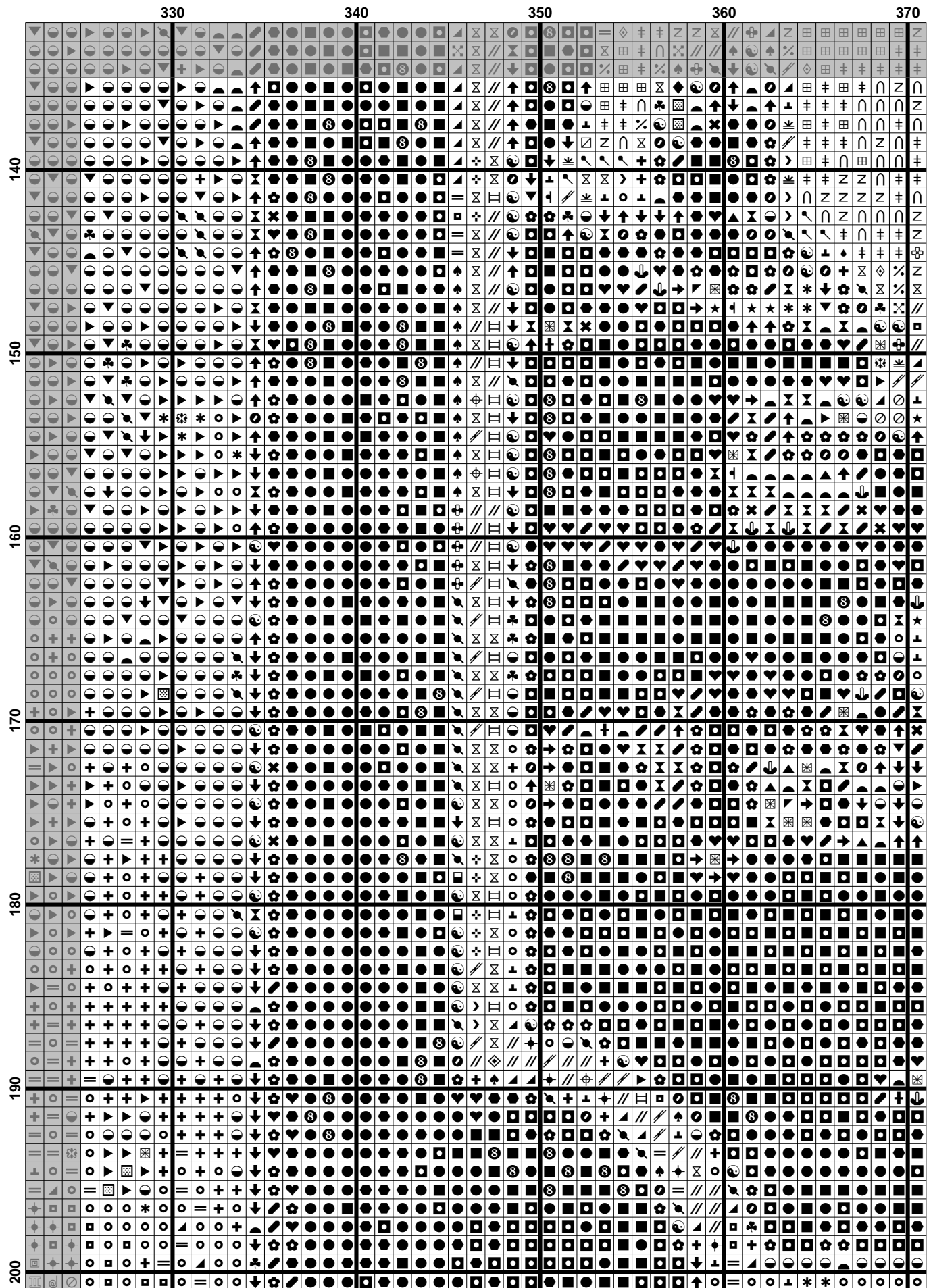
	140	150	160	170	180
140	...	...	...	...	...
150	...	...	...	...	...
160	...	...	...	...	...
170	...	...	...	...	...
180	...	...	...	...	...
190	...	...	...	...	...
200	...	...	...	...	...

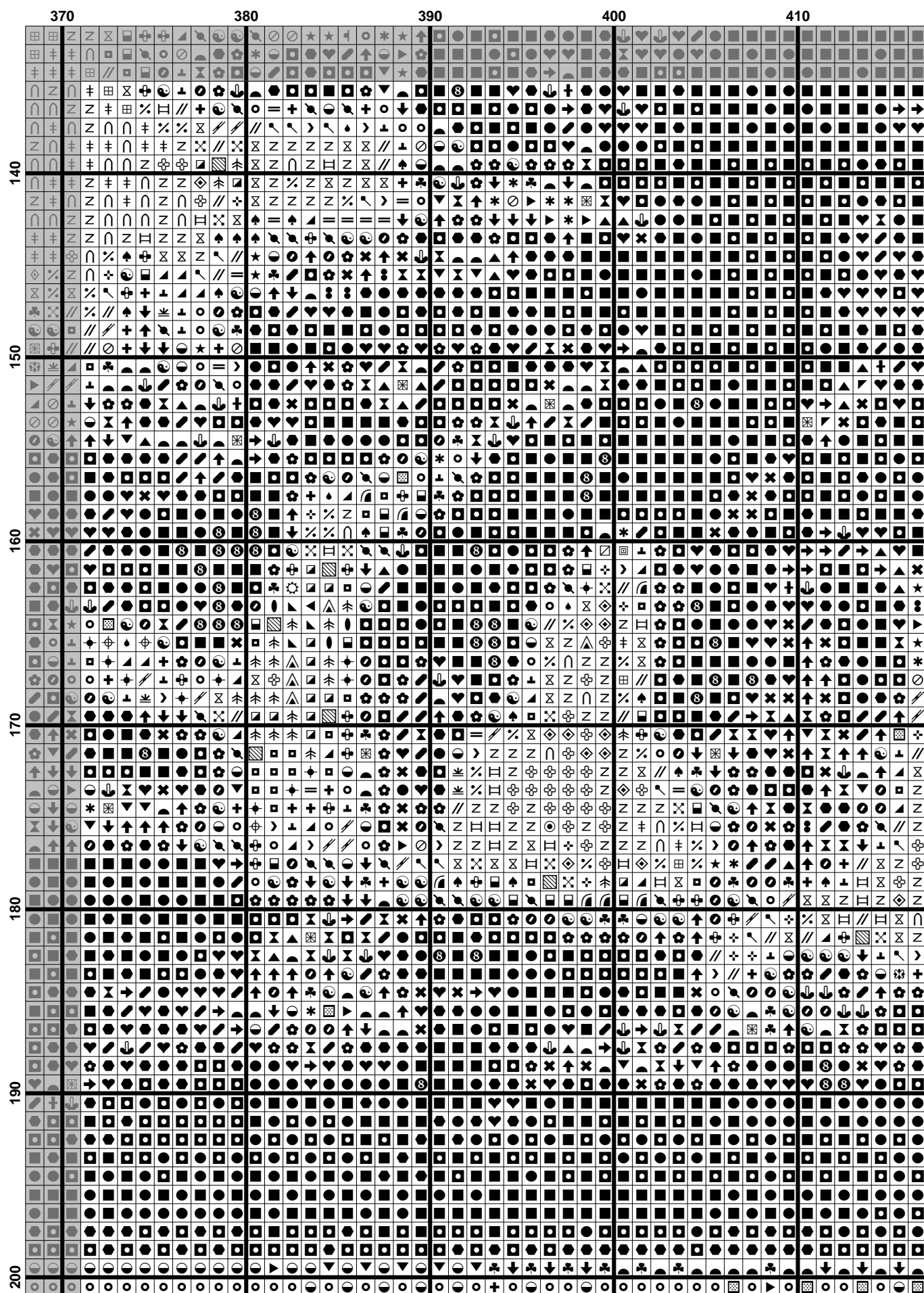
[illegible]

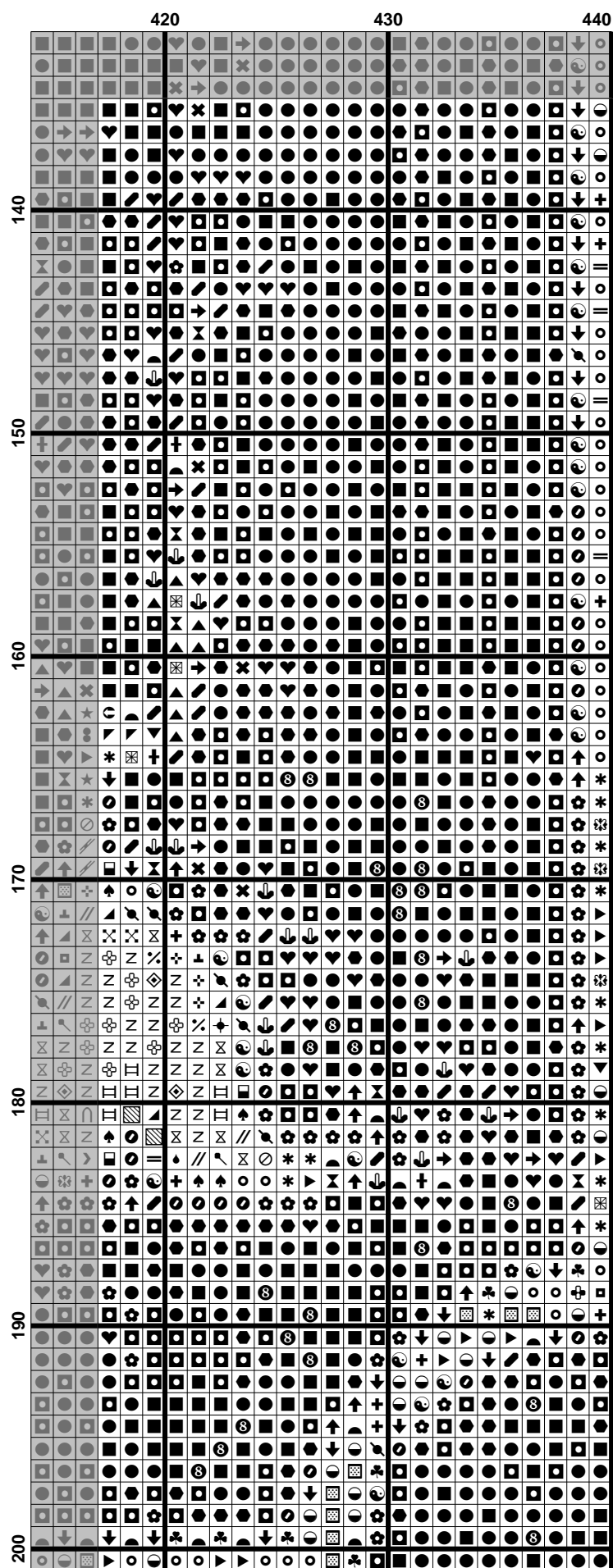
$$(36) \quad \mathcal{H}^1(\mathcal{C}_\bullet) = \mathcal{H}^1(\mathcal{C}_\bullet^{\text{cl}}) \oplus \mathcal{H}^1(\mathcal{C}_\bullet^{\text{cl}})^\perp \quad (37)$$

[illegible]









[illegible]

[illegible]

[illegible]

	140	150	160	170	180
200	○	○	○	○	○
210	○	○	○	○	○
220	○	○	○	○	○
230	○	○	○	○	○
240	○	○	○	○	○
250	○	○	○	○	○
260	○	○	○	○	○

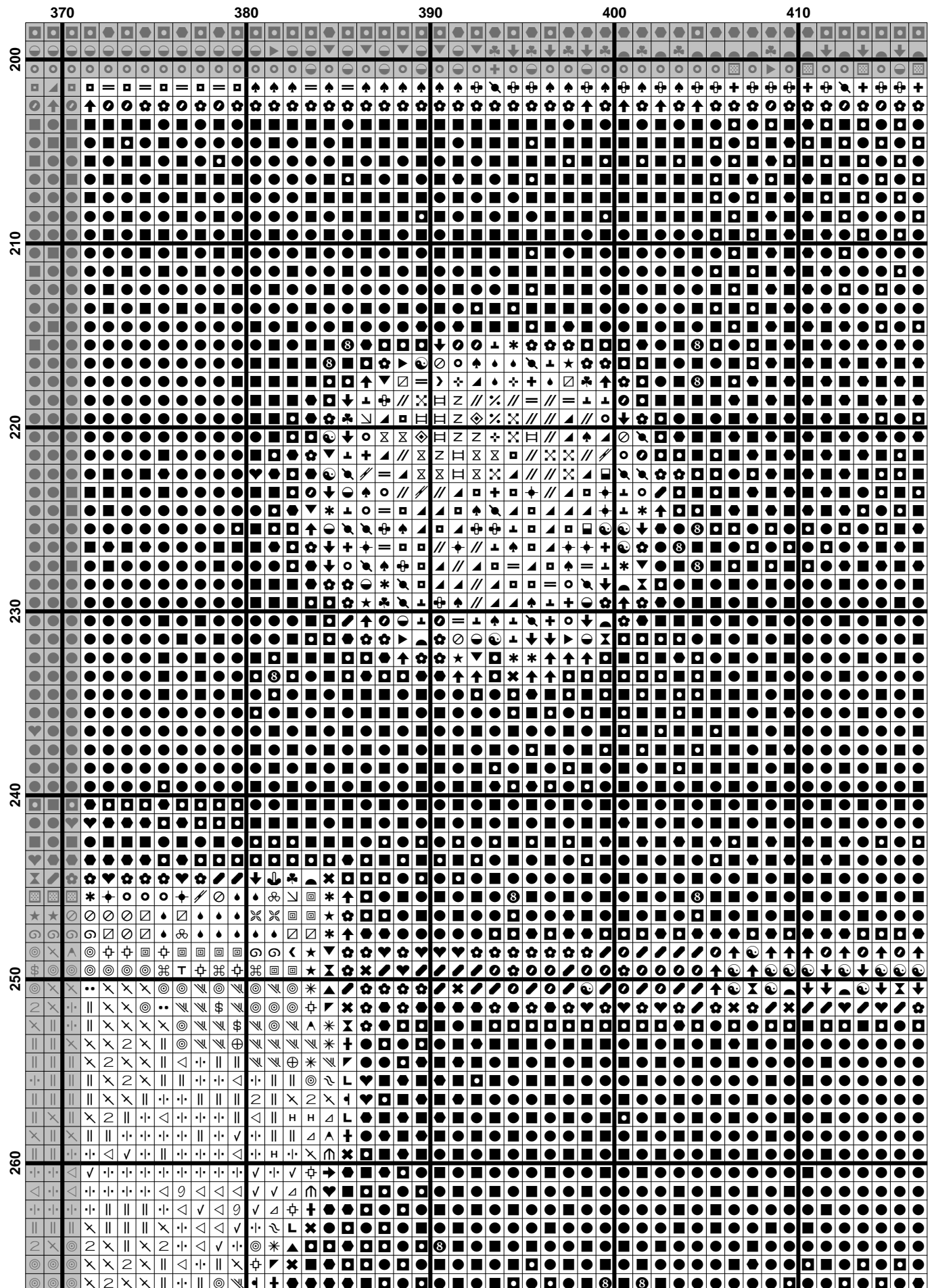
$$(45) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

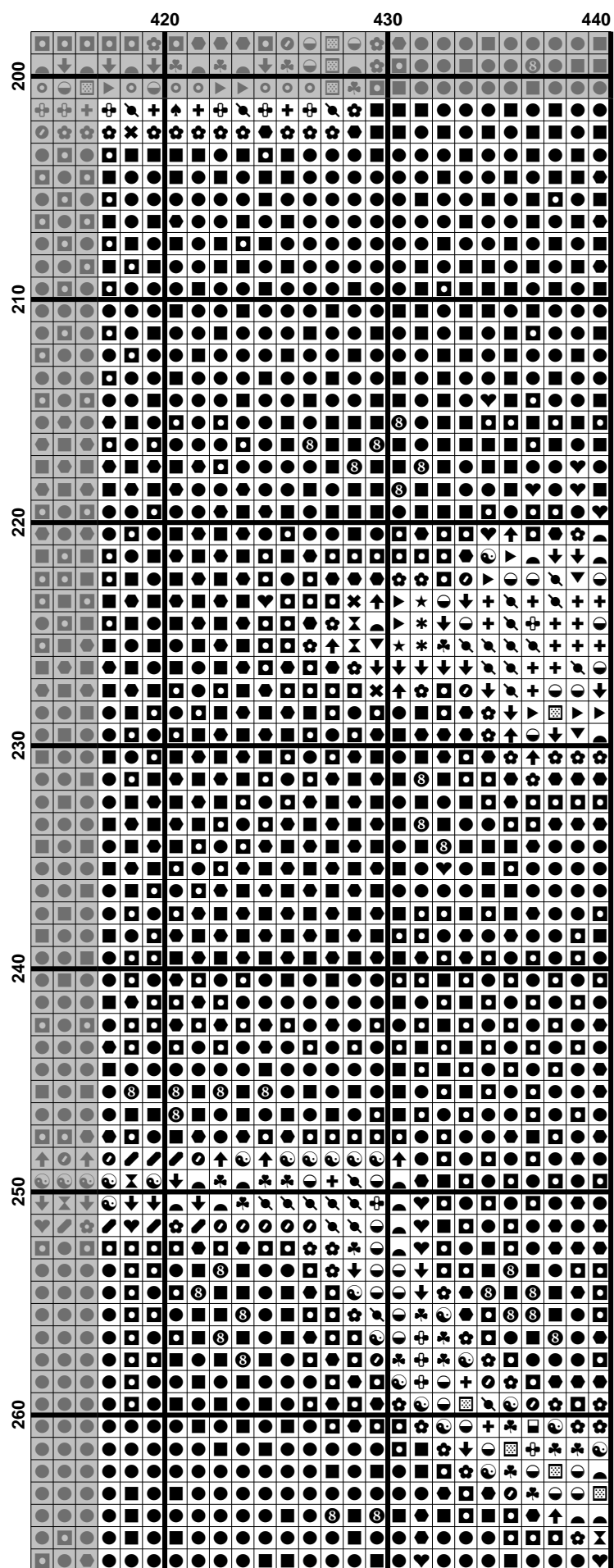


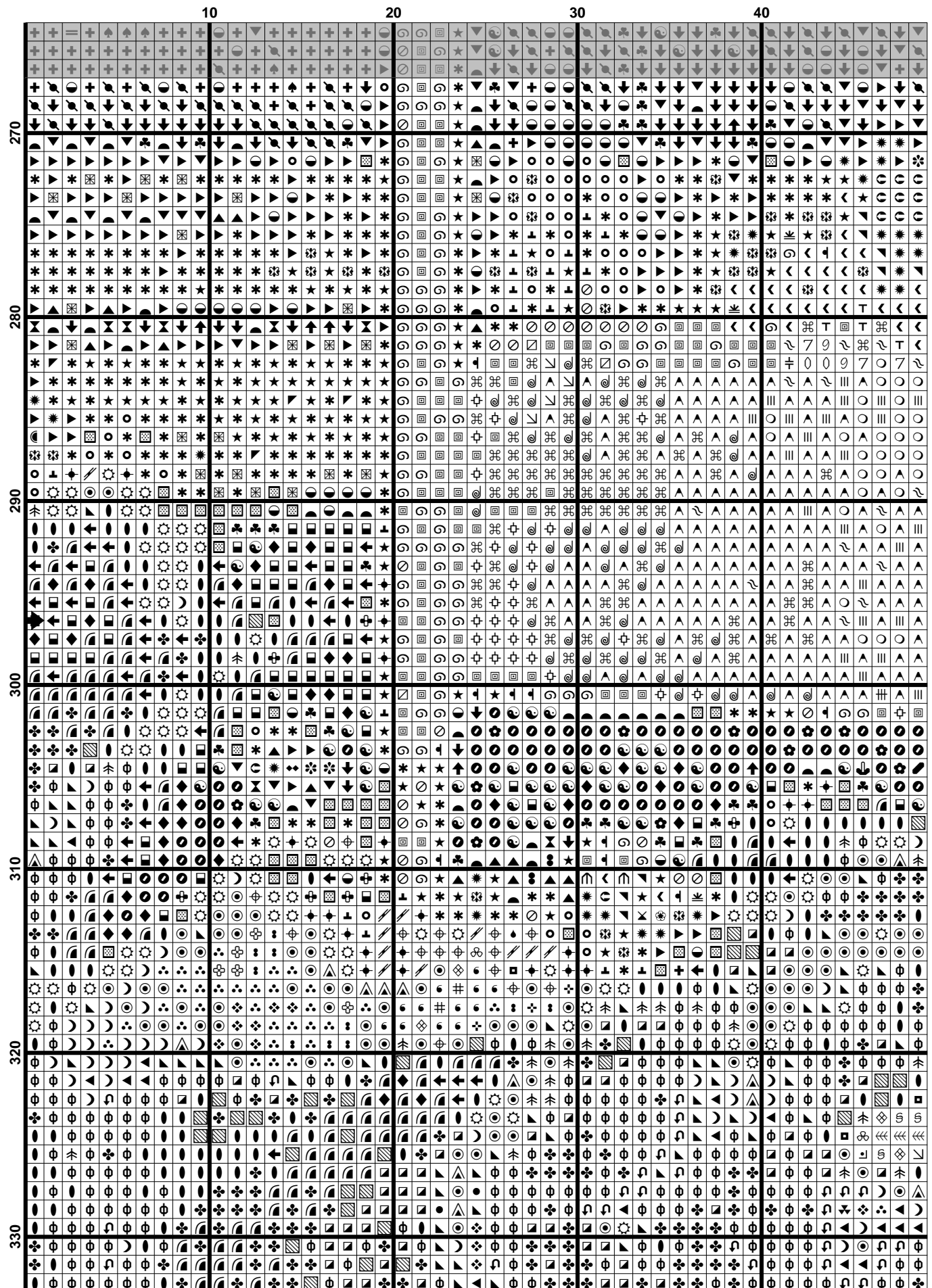
[illegible]

[illegible]

	330										340										350										360										370									
200																																																		
210																																																		
220																																																		
230																																																		
240																																																		
250																																																		
260																																																		







	50	60	70	80	90
270	...	...	...	...	...
280	...	...	...	...	...
290	...	...	...	...	...
300	...	...	...	...	...
310	...	...	...	...	...
320	...	...	...	...	...
330	...	...	...	...	...

[illegible]



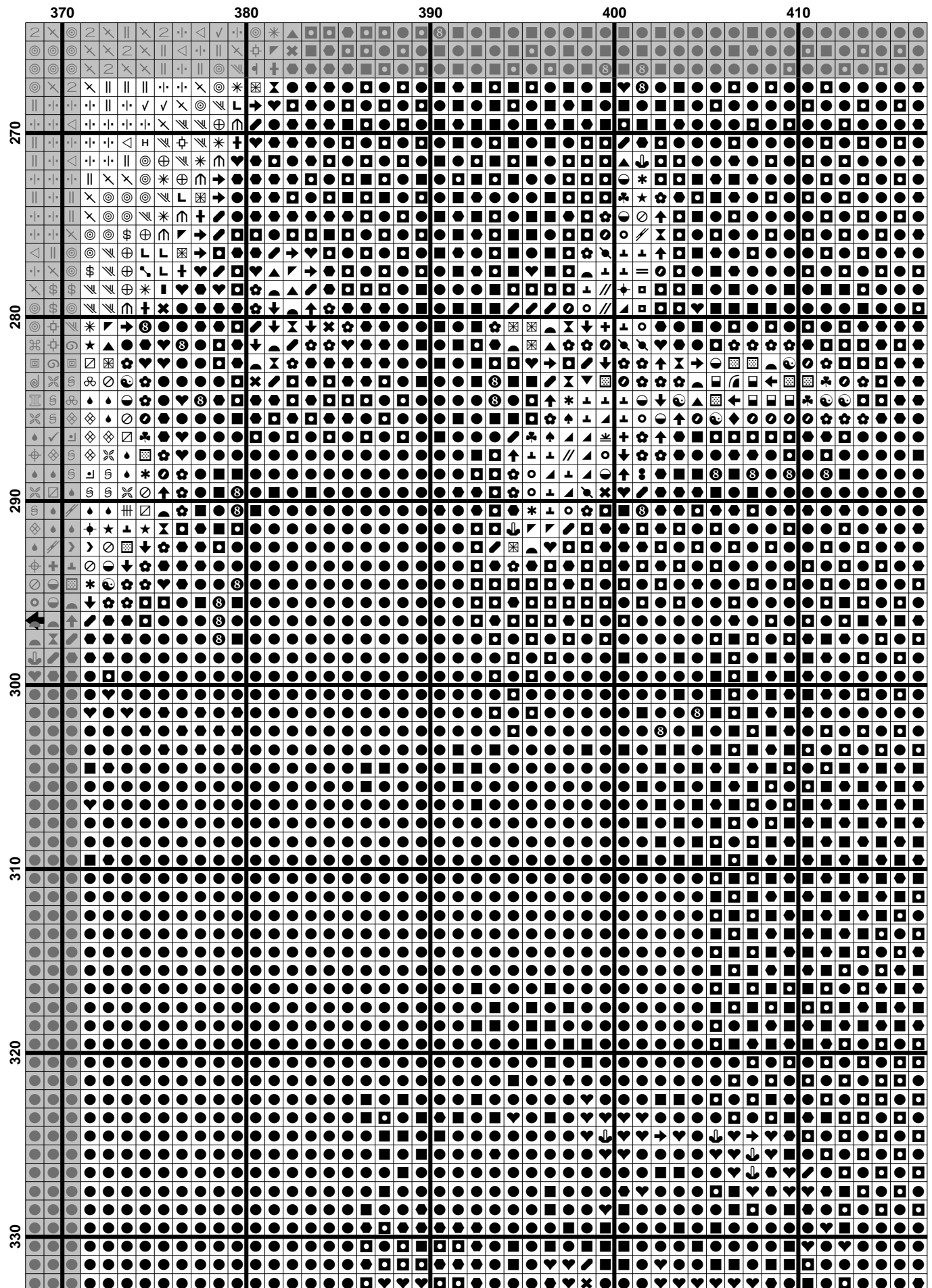
	140	150	160	170	180
270					
280					
290					
300					
310					
320					
330					

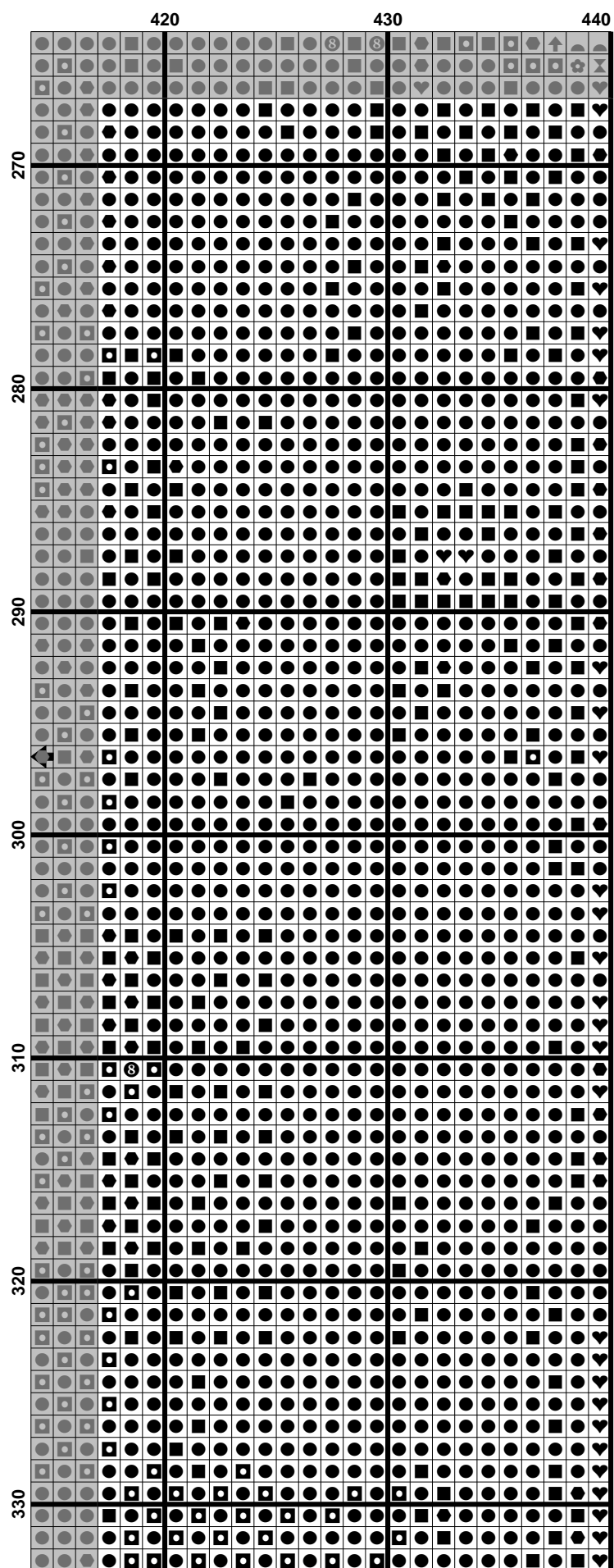
[illegible]

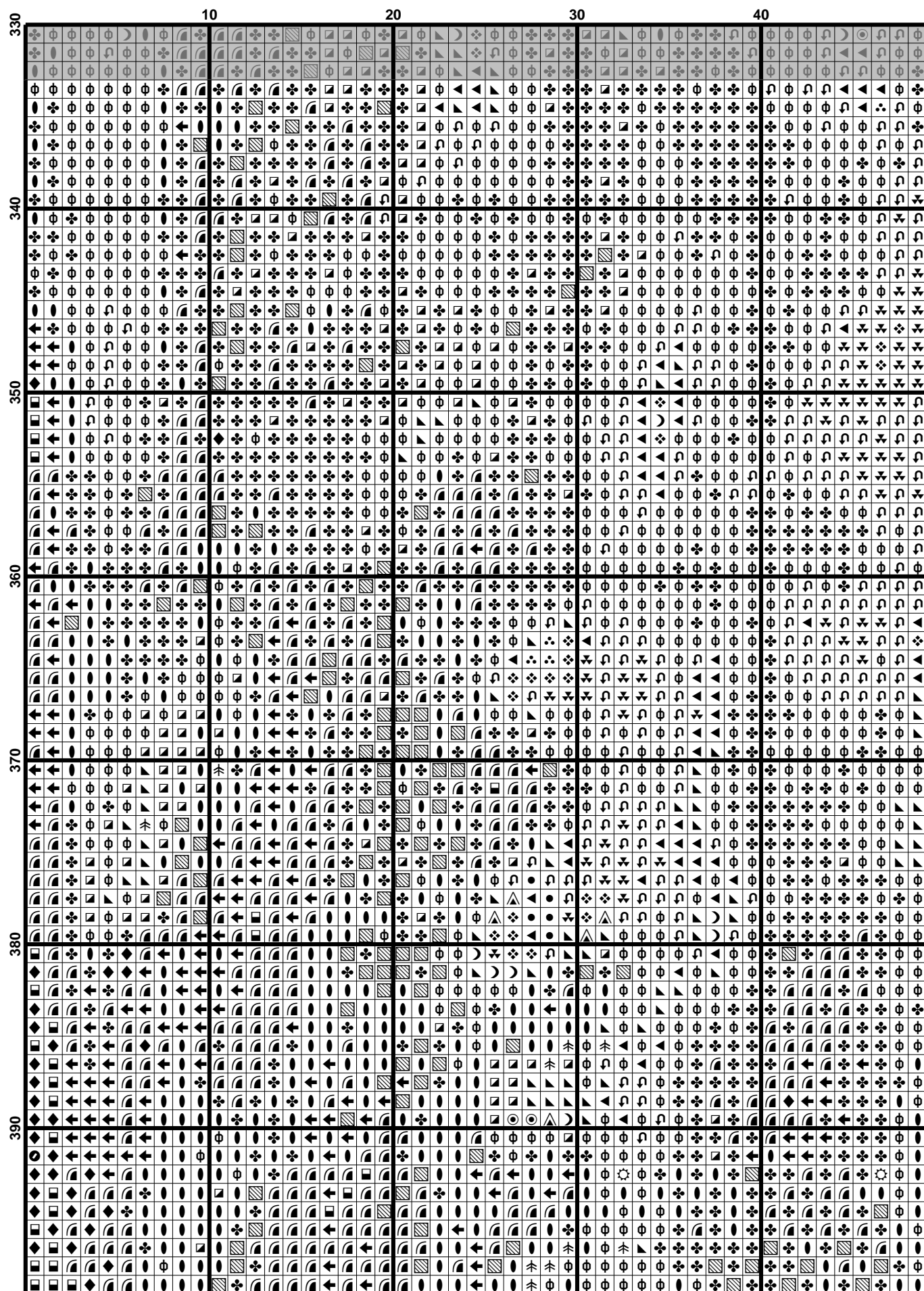
230	240	250	260	270
270	280	290	300	310
320	330			

[illegible]

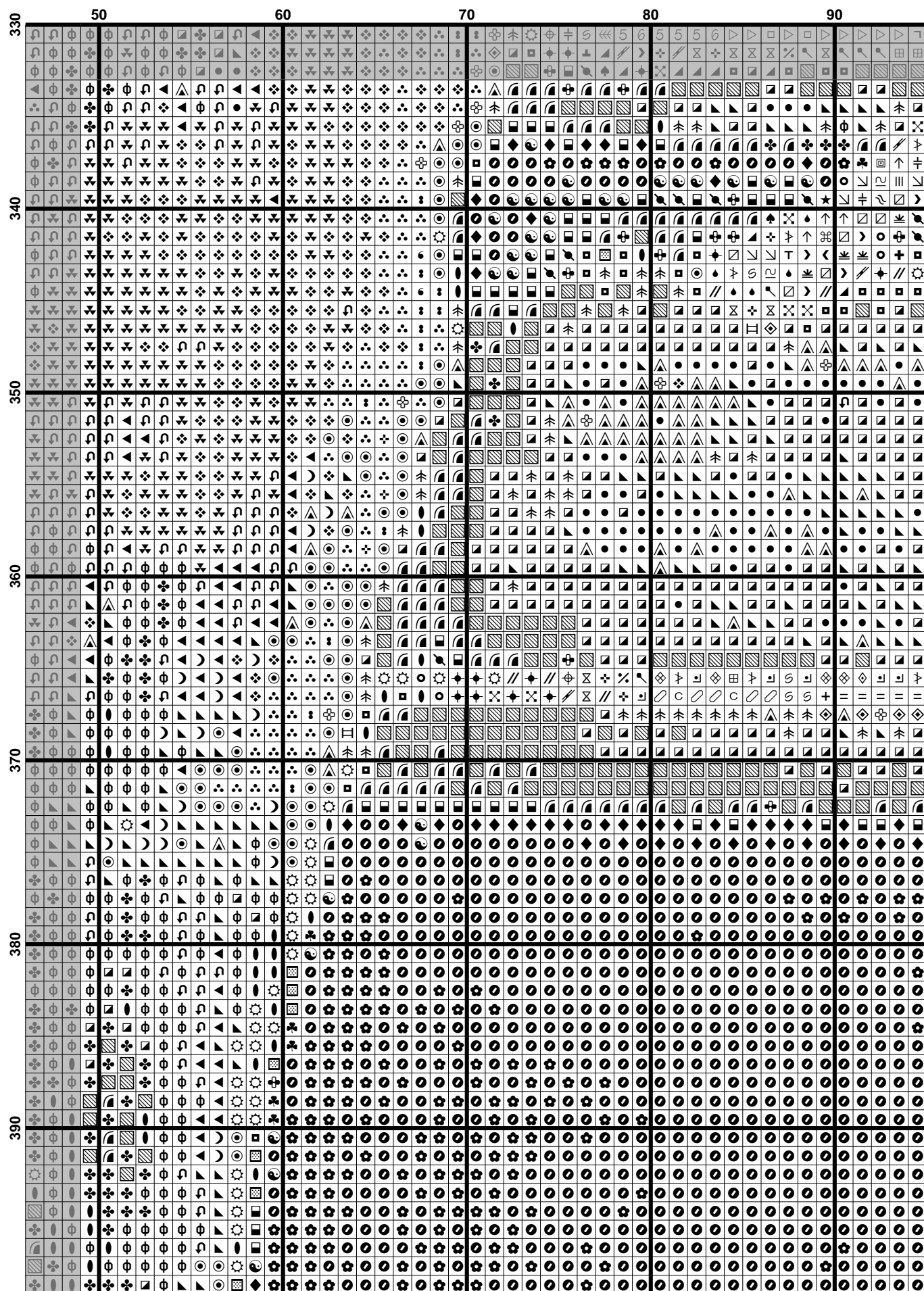
$$(58) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

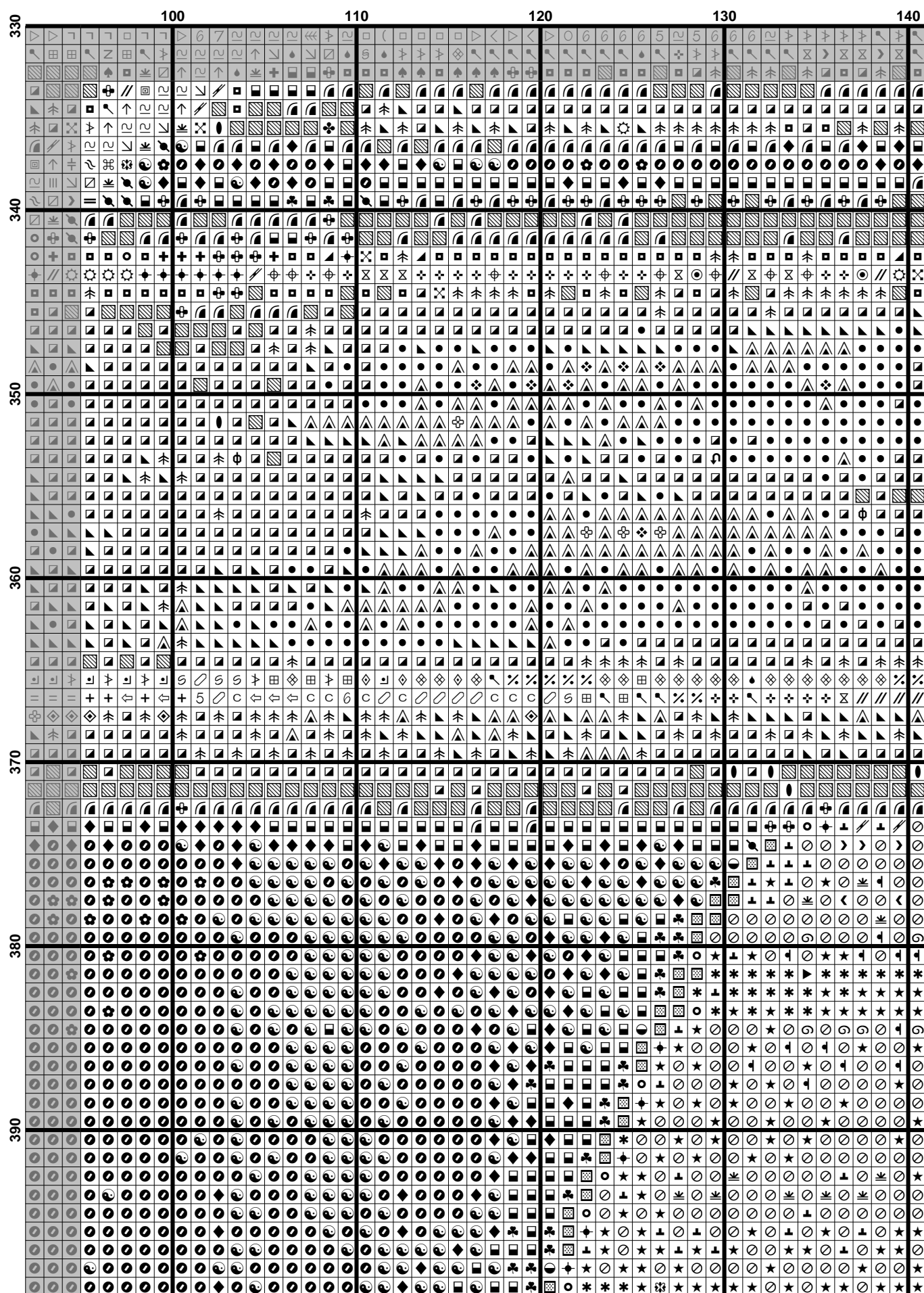


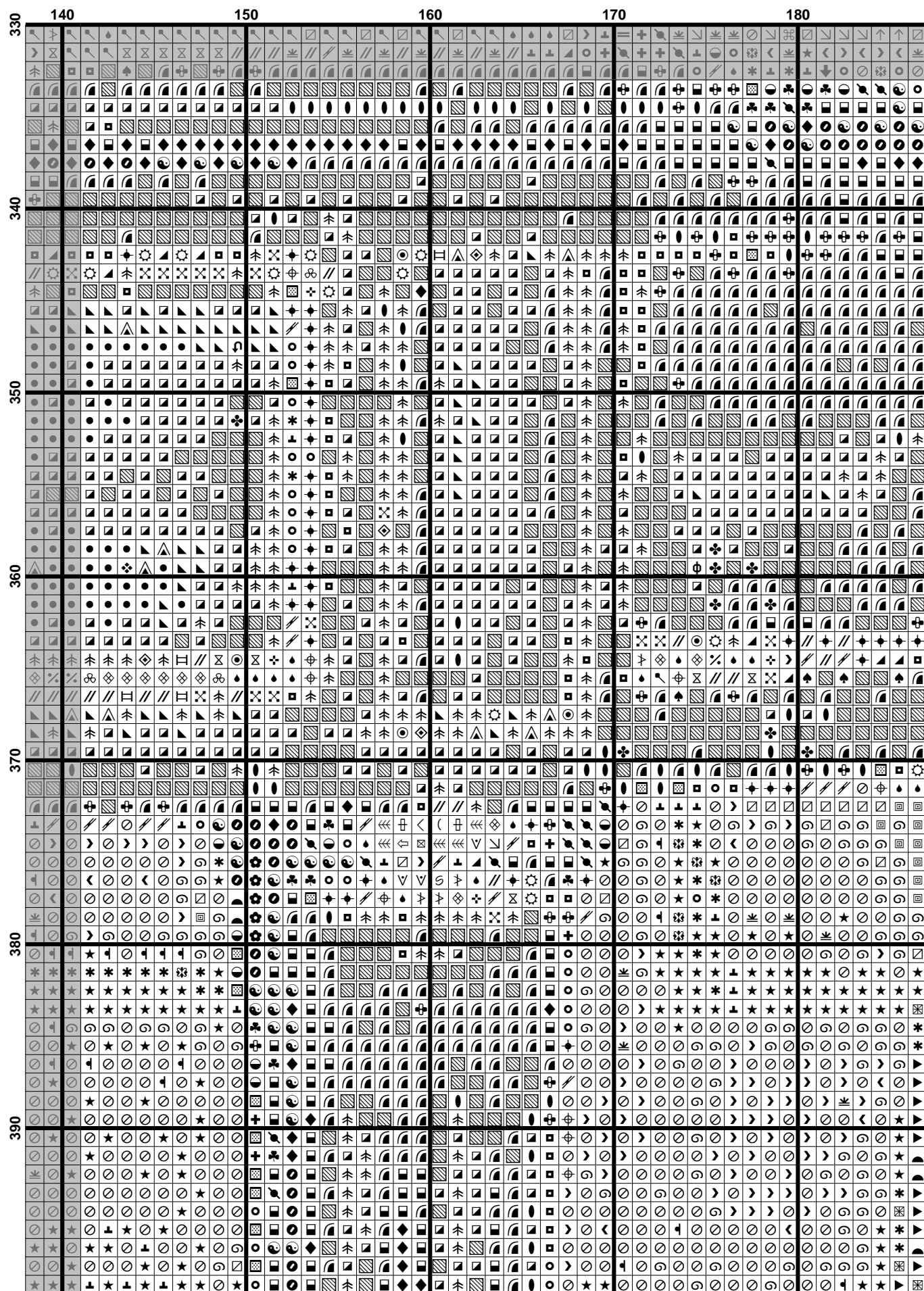


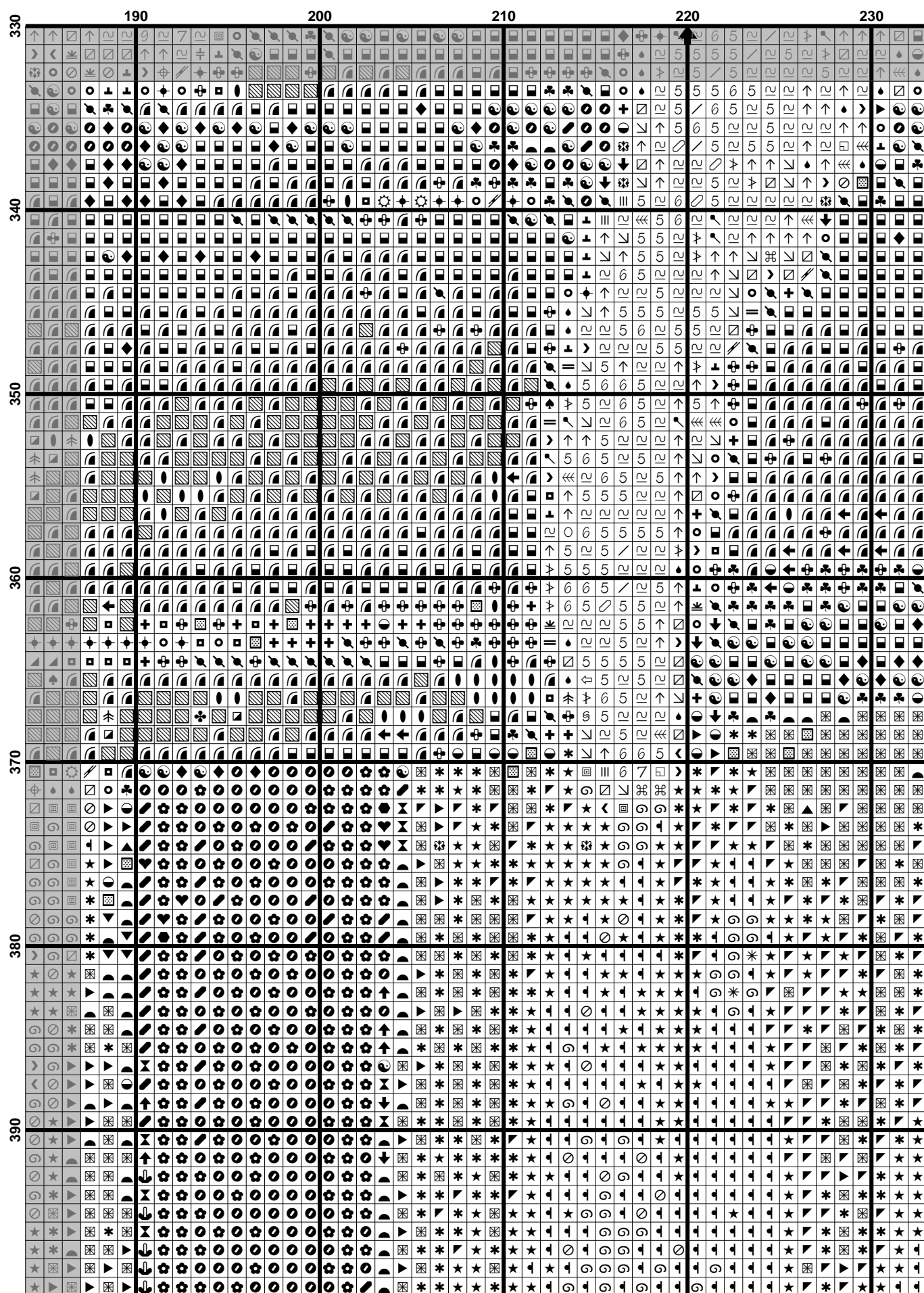








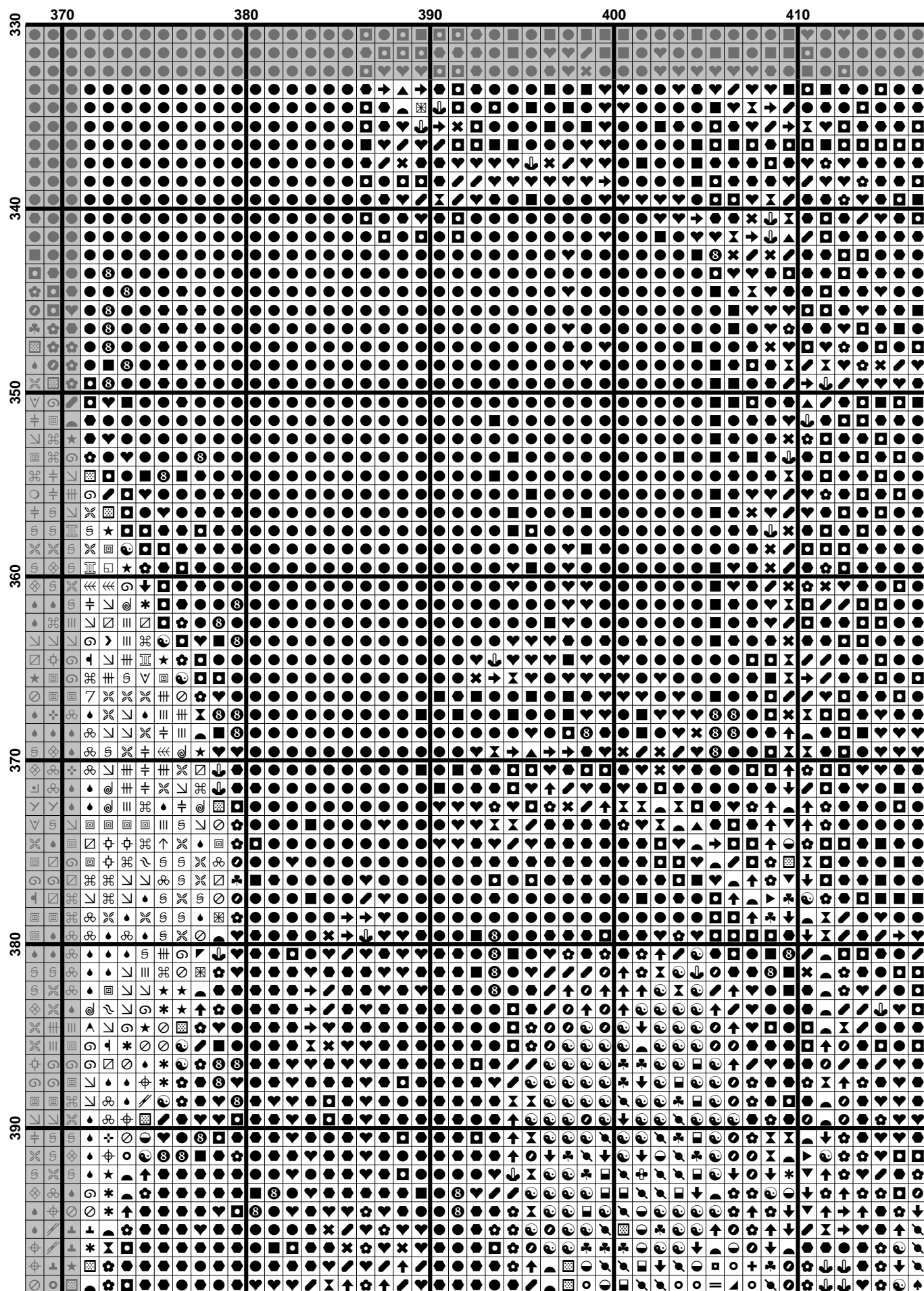




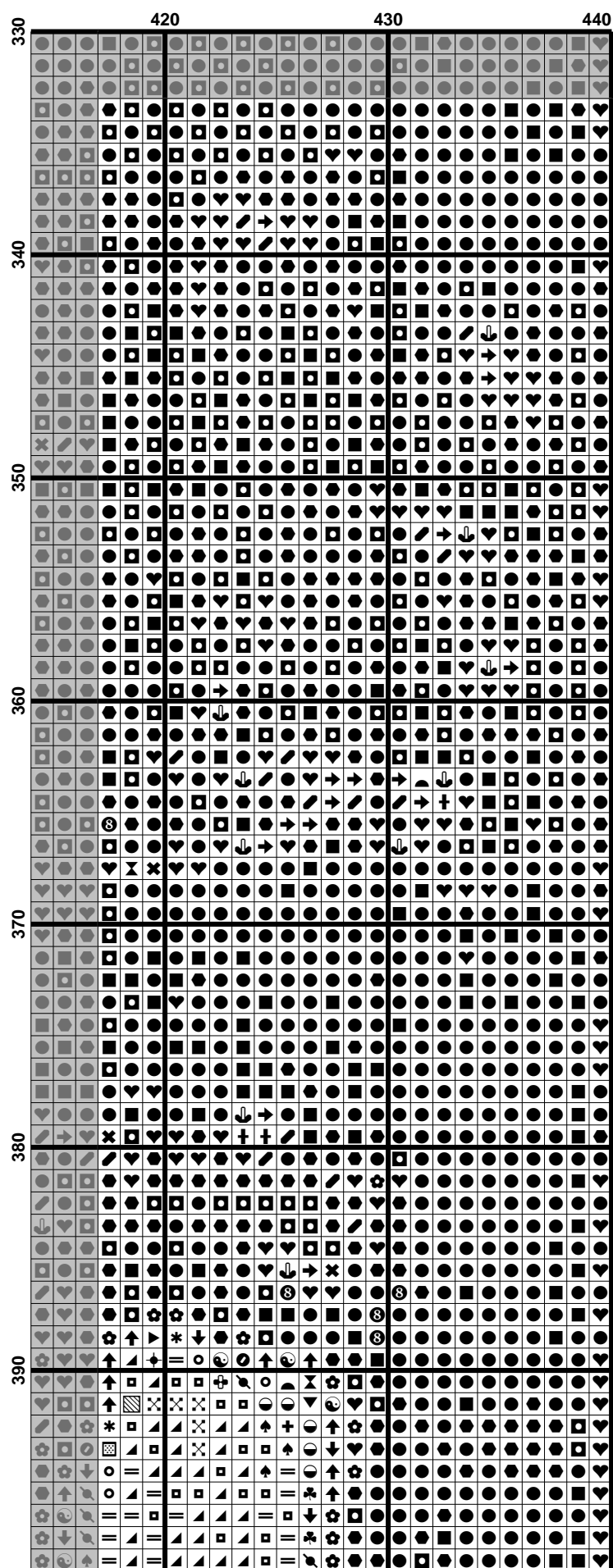
$$(66) \quad \text{[...]} \quad (67)$$

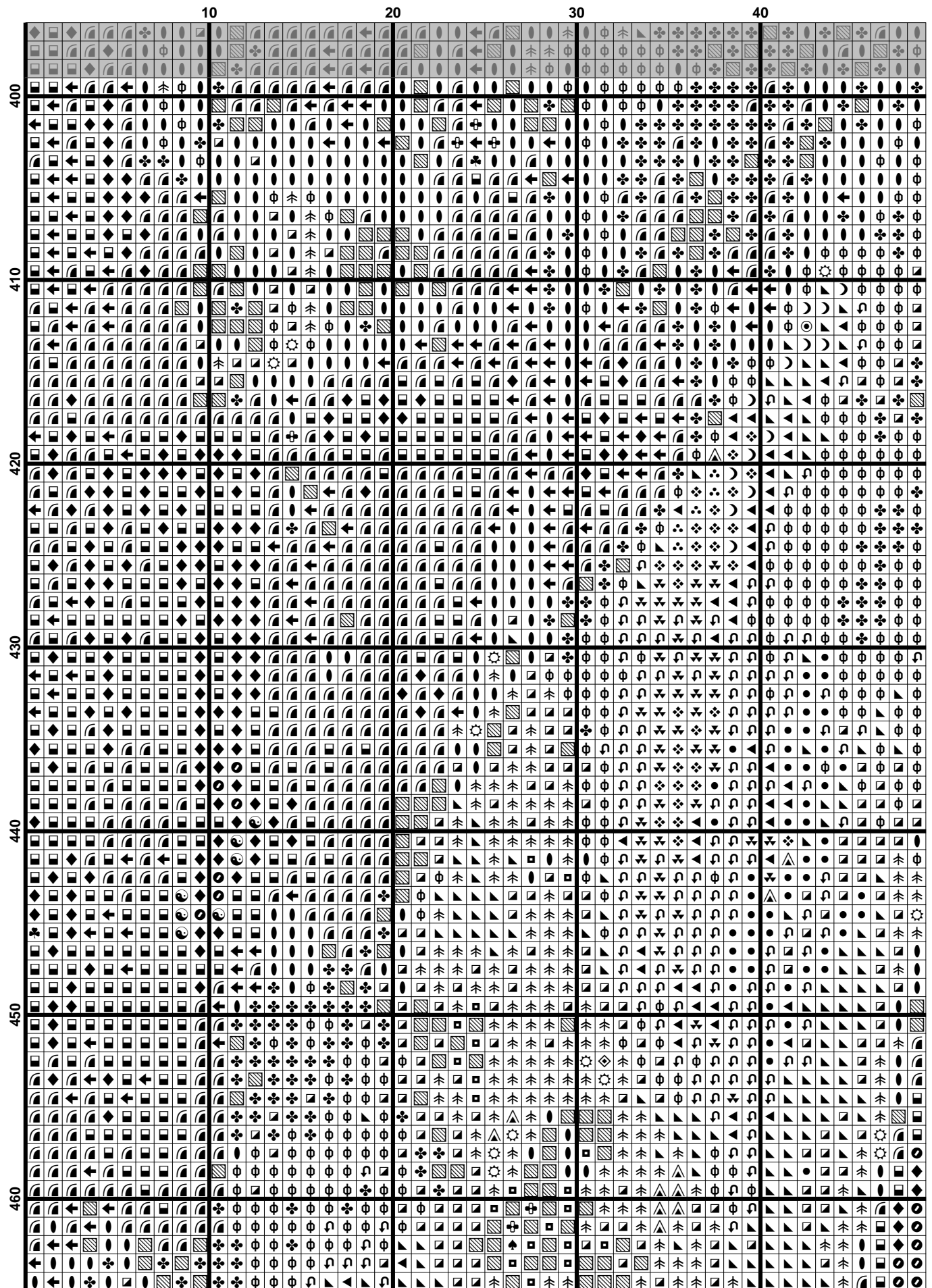
$$(67) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

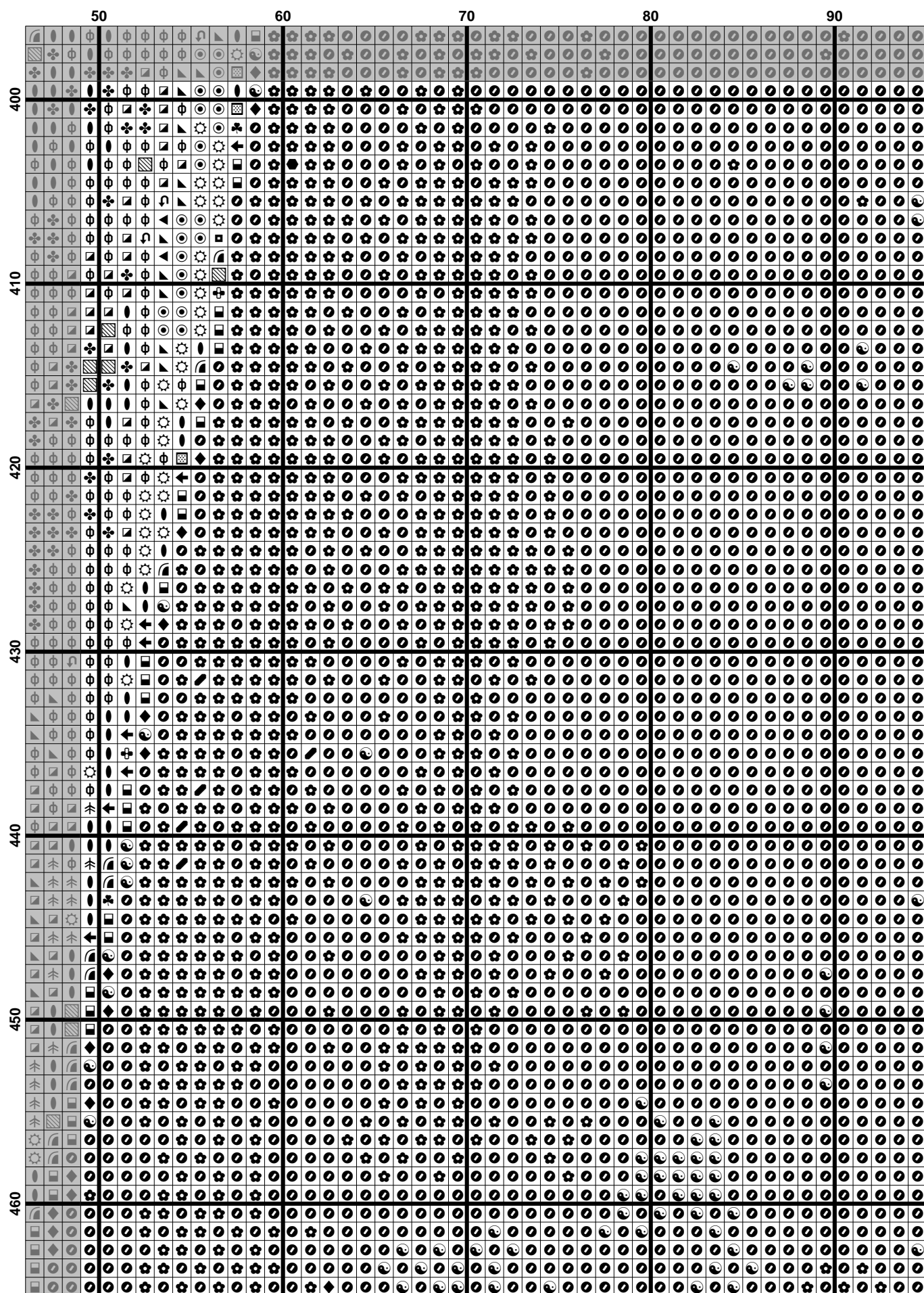
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3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
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10	10	10	10	10	10
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69	69	69	69	69	69
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76	76	76	76	76	76
77	77	77	77	77	77
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93	93	93	93	93	93
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95	95	95	95	95	95
96	96	96	96	96	96
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99	99	99	99	99	99
100	100	100	100	100	100



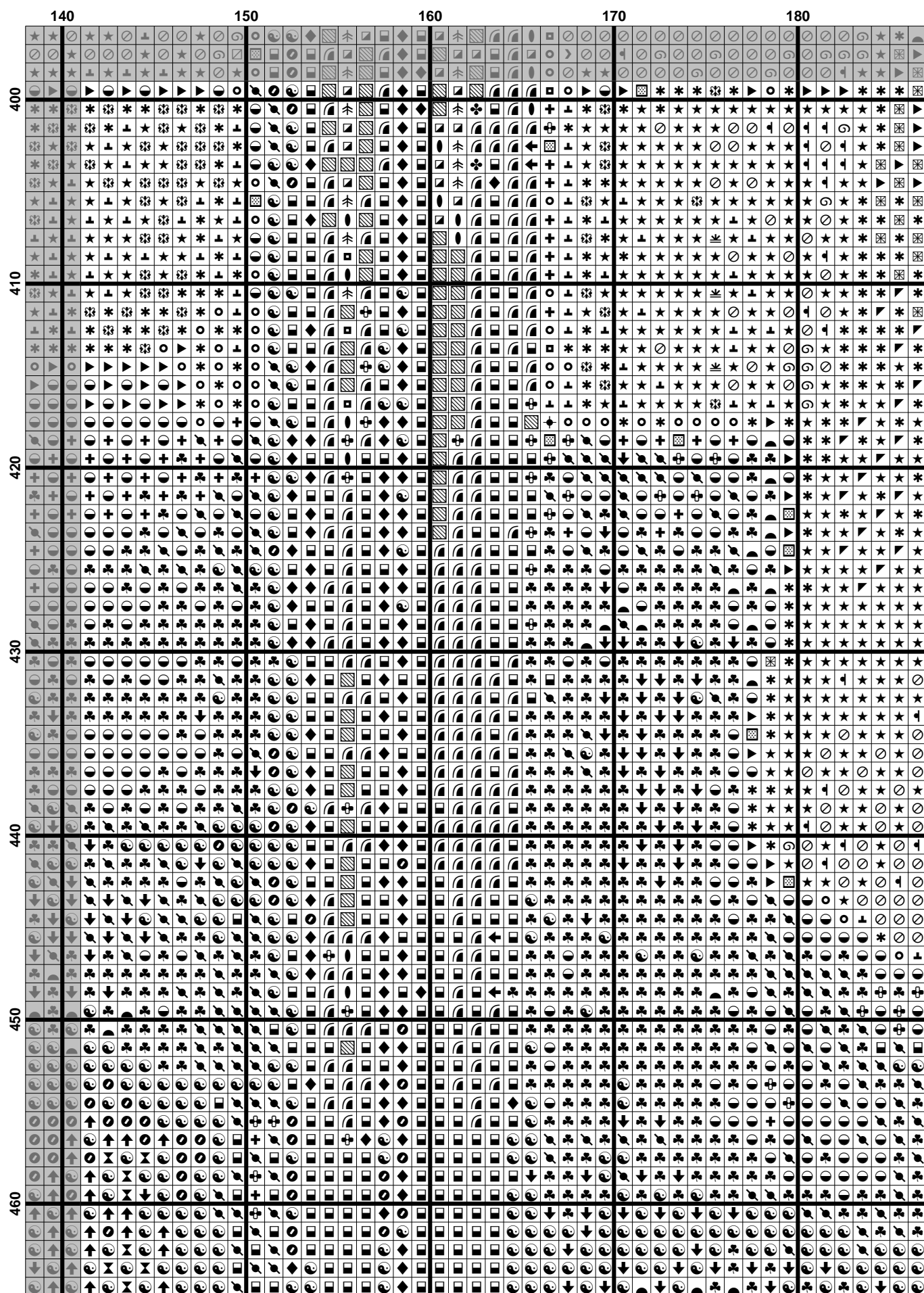








[illegible]



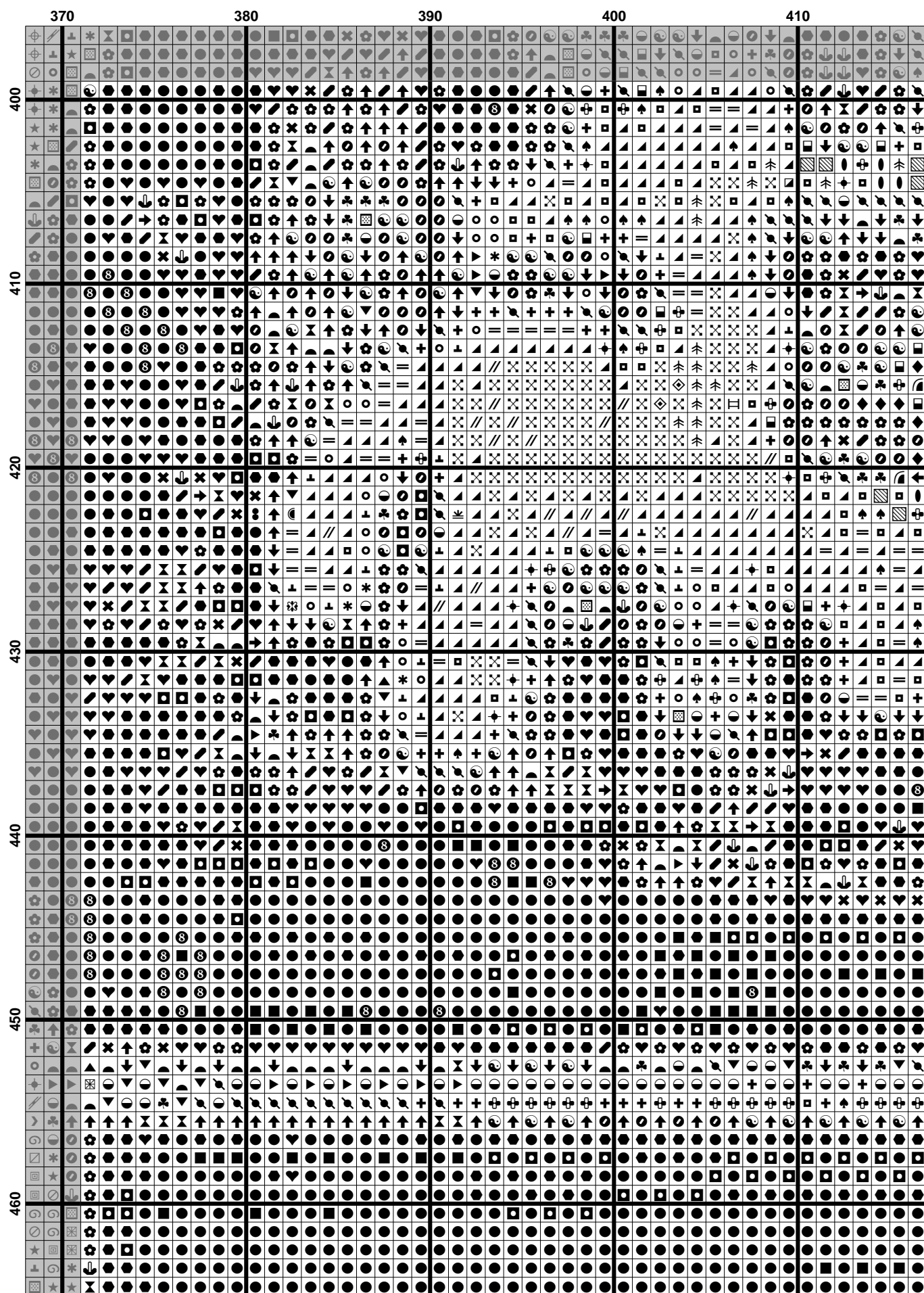
(76)

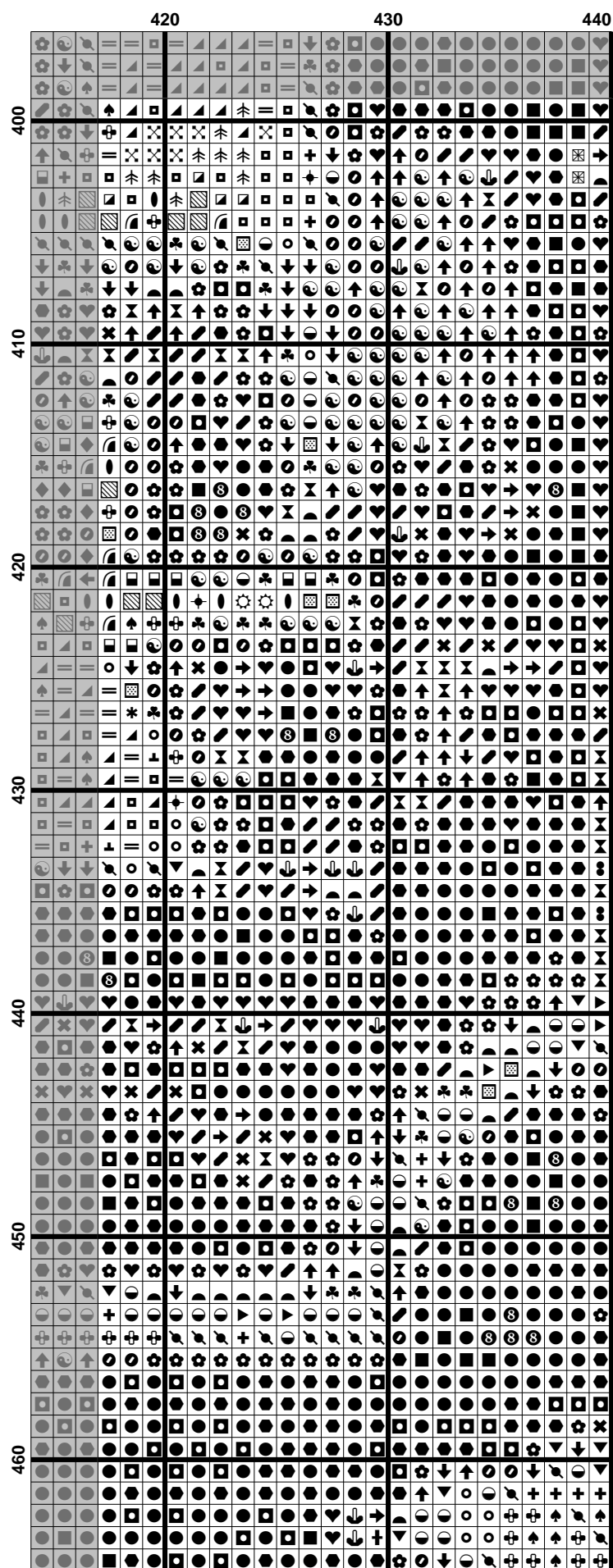
	230	240	250	260	270
400	★	★	★	★	★
401	★	★	★	★	★
402	★	★	★	★	★
403	★	★	★	★	★
404	★	★	★	★	★
405	★	★	★	★	★
406	★	★	★	★	★
407	★	★	★	★	★
408	★	★	★	★	★
409	★	★	★	★	★
410	★	★	★	★	★
411	★	★	★	★	★
412	★	★	★	★	★
413	★	★	★	★	★
414	★	★	★	★	★
415	★	★	★	★	★
416	★	★	★	★	★
417	★	★	★	★	★
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419	★	★	★	★	★
420	★	★	★	★	★
421	★	★	★	★	★
422	★	★	★	★	★
423	★	★	★	★	★
424	★	★	★	★	★
425	★	★	★	★	★
426	★	★	★	★	★
427	★	★	★	★	★
428	★	★	★	★	★
429	★	★	★	★	★
430	★	★	★	★	★
431	★	★	★	★	★
432	★	★	★	★	★
433	★	★	★	★	★
434	★	★	★	★	★
435	★	★	★	★	★
436	★	★	★	★	★
437	★	★	★	★	★
438	★	★	★	★	★
439	★	★	★	★	★
440	★	★	★	★	★
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463	★	★	★	★	★
464	★	★	★	★	★
465	★	★	★	★	★
466	★	★	★	★	★
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468	★	★	★	★	★
469	★	★	★	★	★
470	★	★	★	★	★

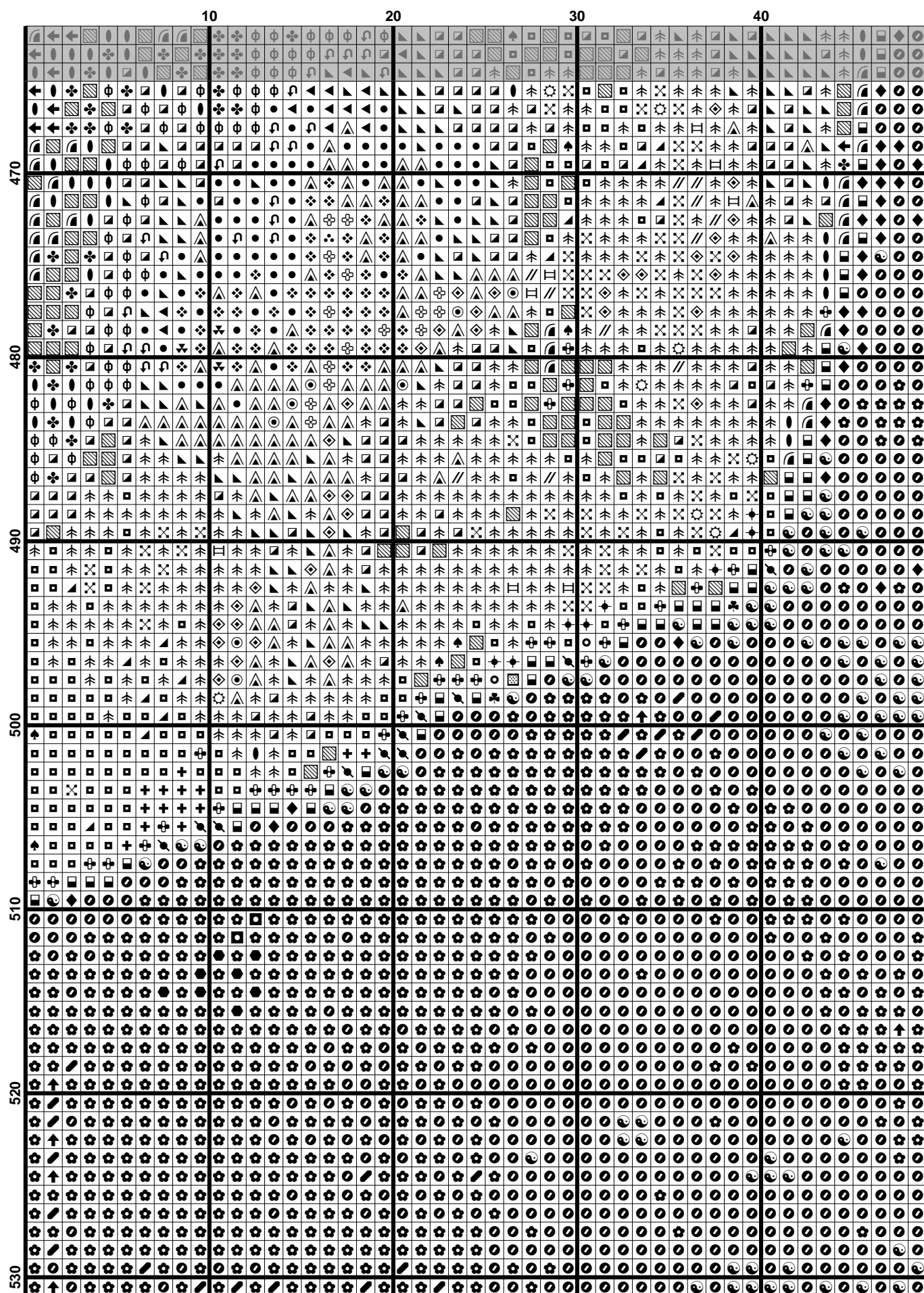
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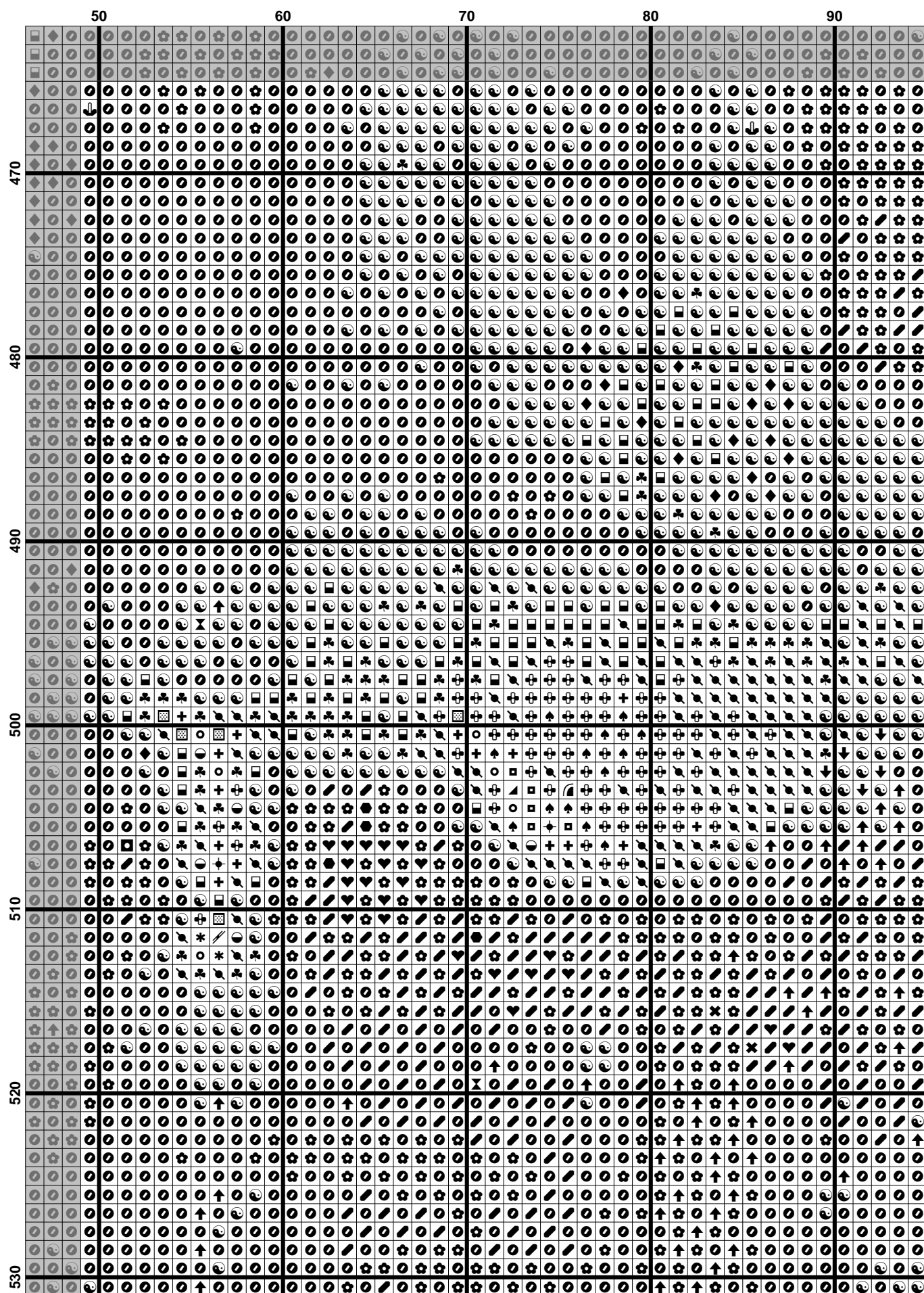


[illegible]

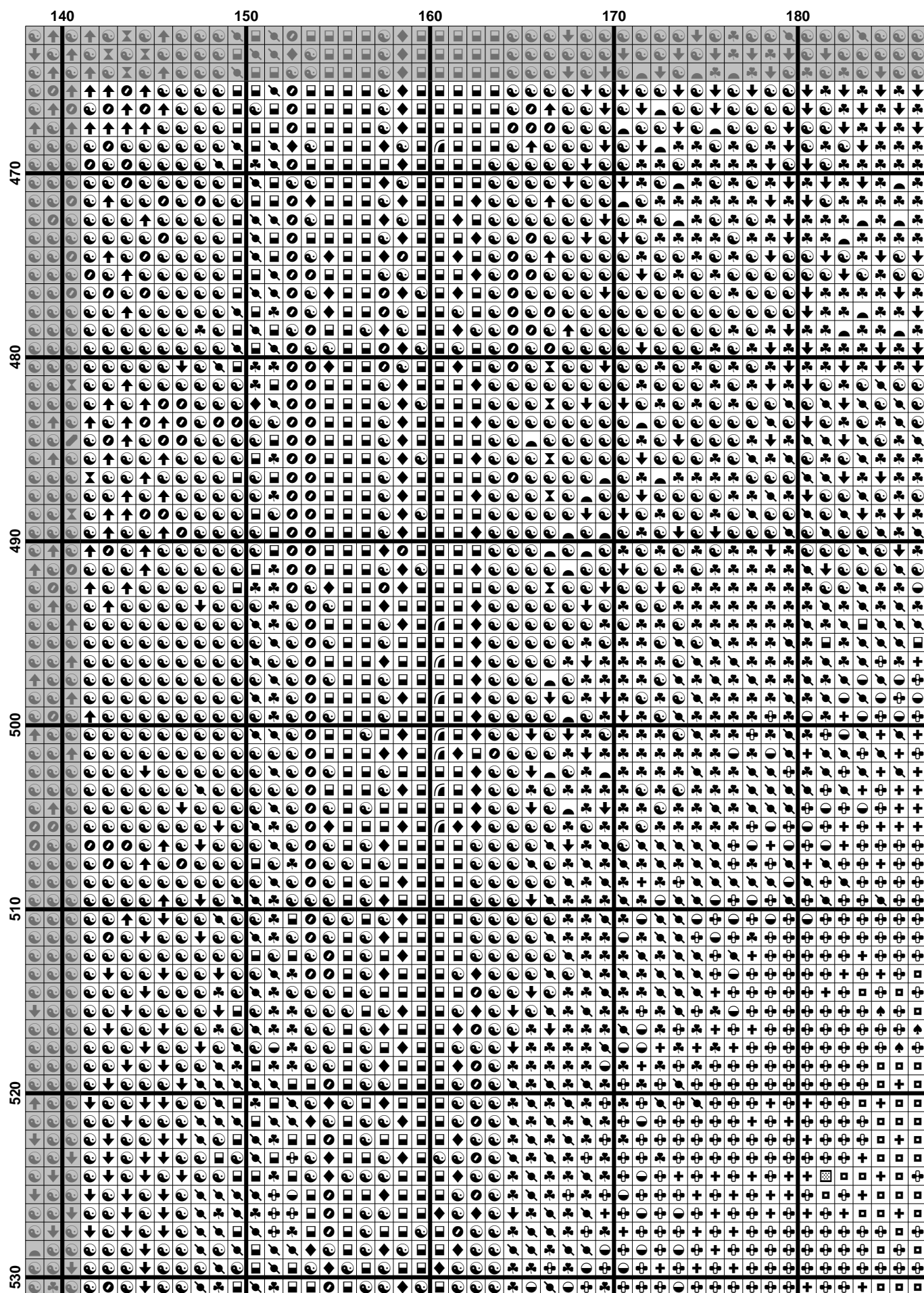








[illegible]



[illegible]



[illegible]

530

[illegible]

