

2071 A Summer Still Life



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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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A Summer Still Life

Stitch Count	
Horizontal:	450
Vertical:	332

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:	82	32.14	60	23.62	72	28.12	53	20.67	64	25	47	18.375
Including Margins:	98	39	76	30	88	35	69	27	80	32	63	25
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	114	44.99	84	33.06	95	37.49	70	27.55	47	18.74	35	13.77
Including Margins:	130	51	100	40	111	44	86	34	63	25	51	20
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	45	17.99	33	13.22	44	17.3	32	12.71	42	16.66	31	12.24
Including Margins:	61	24	49	20	60	24	48	19	58	23	47	19
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	41	16.07	30	11.81	38	14.99	28	11.02	35	14.06	26	10.33
Including Margins:	57	23	46	18	54	21	44	18	51	21	42	17

Solid Color Stitches. Use two strands of the specified color for these stitches.

Symbol	DMC	Name
†	221	Shell Pink-VY DK
▧	300	Mahogany-VY DK
◎	301	Mahogany-MD
■	310	Black
◦	315	Antique Mauve-VY DK
♠	326	Rose-VY DK
✚	355	Terra Cotta-DK
×	356	Terra Cotta-MD
⦿	370	Mustard-MD
△	371	Mustard
—	372	Mustard-LT
≡	402	Mahogany-VY LT
♂	413	Pewter Gray-DK
∴	420	Hazelnut Brown-DK
●	433	Brown-MD
٪	435	Brown-VY LT
◊	436	Tan
☆	452	Shell Gray-MD
±	453	Shell Gray-LT
◐	535	Ash Gray-VY LT
⌒	543	Beige Brown-UL VY LT
⌒	610	Drab Brown-DK
⋮	611	Drab Brown
⋮	612	Drab Brown-LT
=	632	Desert Sand-UL VY DK
⊕	640	Beige Gray-VY DK
⇄	644	Beige Gray-MD
◊	645	Beaver Gray-VY DK
↘	646	Beaver Gray-DK
↑	647	Beaver Gray-MD
^	712	Cream
/	738	Tan-VY LT
♡	739	Tan-UL VY LT
⇒	754	Peach-LT
5	758	Terra Cotta-VY LT
●	814	Garnet-DK
⋮	815	Garnet-MD
~	819	Baby Pink-LT
☺	829	Golden Olive-VY DK
♦	830	Golden Olive-DK
✍	831	Golden Olive-MD
➔	838	Beige Brown-VY DK
Φ	839	Beige Brown-DK
#	841	Beige Brown-LT
+	844	Beaver Brown-UL DK
*	869	Hazelnut Brown-VY DK
↓	898	Coffee Brown-VY DK
↑	902	Garnet-VY DK
◐	918	Red Copper-DK
Σ	926	Gray Green-MD
+	927	Gray Green-LT
3	928	Gray Green-VY LT
●	934	Black Avocado Green

☼	938	Coffee Brown-UL DK
	948	Peach-VY LT
⦿	950	Desert Sand-LT
•	951	Tawny-LT
◀	975	Golden Brown-DK
⊗	976	Golden Brown-MD
+	977	Golden Brown-LT
❖	3011	Khaki Green-DK
♣	3021	Brown Gray-VY DK
⊥	3022	Brown Gray-MD
⊖	3032	Mocha Brown-MD
⊕	3041	Antique Violet-MD
⊞	3064	Desert Sand
▷	3072	Beaver Gray-VY LT
■	3371	Black Brown
●	3685	Mauve-DK
⦿	3721	Shell Pink-DK
z	3722	Shell Pink-MD
(3756	Baby Blue-UL VY LT
↑	3770	Tawny-VY LT
⊕	3772	Desert Sand-VY DK
⊕	3781	Mocha Brown-DK
⊕	3782	Mocha Brown-LT
⊕	3787	Brown Gray-DK
⊕	3790	Beige Gray-UL DK
⊕	3799	Pewter Gray-VY DK
⊕	3802	Antique Mauve-VY DK
✱	3826	Golden Brown
⊕	3828	Hazelnut Brown
✱	3830	Terra Cotta-MD
◇	3854	Autumn Gold-MD
0	3856	Mahogany-UL VY LT
■	3857	Rosewood-DK
⊕	3861	Cocoa-LT
⊕	3862	Mocha Beige-DK
⊕	3863	Mocha Beige-MD
7	3864	Mocha Beige-LT
«	3865	Winter White
□	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
1	1	White 1	3865	Winter White
✱	300	Mahogany-VY DK	938	Coffee Brown-UL DK
•	301	Mahogany-MD	3853	Autumn Gold-DK
●	310	Black	3781	Mocha Brown-DK
●	310	Black	3799	Pewter Gray-VY DK
⊕	315	Antique Mauve-VY DK	3790	Beige Gray-UL DK
✱	317	Pewter Gray	413	Pewter Gray-DK
⊕	317	Pewter Gray	646	Beaver Gray-DK
⊕	317	Pewter Gray	926	Gray Green-MD
⊕	326	Rose-VY DK	3830	Terra Cotta-MD
✱	355	Terra Cotta-DK	3722	Shell Pink-MD

☞	356	Terra Cotta-MD	223	Shell Pink-LT
2	371	Mustard	3864	Mocha Beige-LT
↓	400	Mahogany-DK	814	Garnet-DK
4	415	Pearl Gray	453	Shell Gray-LT
▲	420	Hazelnut Brown-DK	632	Desert Sand-UL VY DK
⦿	436	Tan	3826	Golden Brown
○	436	Tan	3853	Autumn Gold-DK
::	452	Shell Gray-MD	927	Gray Green-LT
☒	453	Shell Gray-LT	3042	Antique Violet-LT
∩	503	Blue Green-MD	926	Gray Green-MD
‡	522	Fern Green	3860	Cocoa
■	535	Ash Gray-VY LT	844	Beaver Brown-UL DK
●	535	Ash Gray-VY LT	3740	Antique Violet-DK
:	543	Beige Brown-UL VY LT	3024	Brown Gray-VY LT
//	610	Drab Brown-DK	831	Golden Olive-MD
○	612	Drab Brown-LT	543	Beige Brown-UL VY LT
☒	632	Desert Sand-UL VY DK	838	Beige Brown-VY DK
◀	632	Desert Sand-UL VY DK	840	Beige Brown-MD
▶	632	Desert Sand-UL VY DK	3787	Brown Gray-DK
✦	632	Desert Sand-UL VY DK	3830	Terra Cotta-MD
◎	640	Beige Gray-VY DK	523	Fern Green-LT
×	647	Beaver Gray-MD	3861	Cocoa-LT
9	722	Orange Spice-LT	726	Topaz-LT
←	801	Coffee Brown-DK	898	Coffee Brown-VY DK
n	819	Baby Pink-LT	3865	Winter White
☒	829	Golden Olive-VY DK	839	Beige Brown-DK
☑	831	Golden Olive-MD	832	Golden Olive
☒	838	Beige Brown-VY DK	839	Beige Brown-DK
⦿	838	Beige Brown-VY DK	3371	Black Brown
☯	838	Beige Brown-VY DK	3799	Pewter Gray-VY DK
▲	839	Beige Brown-DK	3021	Brown Gray-VY DK
◀	840	Beige Brown-MD	3772	Desert Sand-VY DK
☒	842	Beige Brown-VY LT	452	Shell Gray-MD
☯	844	Beaver Brown-UL DK	924	Gray Green--VY DK
=	926	Gray Green-MD	928	Gray Green-VY LT
☯	926	Gray Green-MD	3041	Antique Violet-MD
∩	928	Gray Green-VY LT	3041	Antique Violet-MD
♥	938	Coffee Brown-UL DK	814	Garnet-DK
)	948	Peach-VY LT	754	Peach-LT
e	950	Desert Sand-LT	524	Fern Green-VY LT
☒	977	Golden Brown-LT	3778	Terra Cotta-LT
◆	3021	Brown Gray-VY DK	934	Black Avocado Green
●	3022	Brown Gray-MD	3772	Desert Sand-VY DK
▼	3031	Mocha Brown-VY DK	730	Olive Green-VY DK
⬆	3052	Green Gray-MD	829	Golden Olive-VY DK
☒	3362	Pine Green-DK	3781	Mocha Brown-DK
⚙	3362	Pine Green-DK	3862	Mocha Beige-DK
☒	3721	Shell Pink-DK	3685	Mauve-DK
★	3721	Shell Pink-DK	3722	Shell Pink-MD
○	3743	Antique Violet-VY LT	762	Pearl Gray-VY LT
∞	3756	Baby Blue-UL VY LT	819	Baby Pink-LT
◊	3756	Baby Blue-UL VY LT	3865	Winter White
≡	3776	Mahogany-LT	3778	Terra Cotta-LT
..	3820	Straw-DK	435	Brown-VY LT
<	3823	Yellow-UL Pale	3824	Apricot-LT
\$	3828	Hazelnut Brown	3772	Desert Sand-VY DK
☒	3828	Hazelnut Brown	3776	Mahogany-LT
√	3856	Mahogany-UL VY LT	407	Desert Sand-DK
6	3856	Mahogany-UL VY LT	738	Tan-VY LT

8	3856	Mahogany-UL VY LT	3825	Pumpkin-Pale
✓	3859	Rosewood-LT	3864	Mocha Beige-LT
o	3866	Mocha Brown-UL VY LT	3865	Winter White

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	297	116	283	111	255	100
221	Shell Pink-VY DK	395	155	376	148	339	133
223	Shell Pink-LT	12	4	12	4	11	4
300	Mahogany-VY DK	102	40	98	38	88	34
301	Mahogany-MD	95	37	91	35	82	32
310	Black	5100	2007	4857	1912	4372	1721
315	Antique Mauve-VY DK	110	43	104	40	94	37
317	Pewter Gray	109	42	104	40	94	37
326	Rose-VY DK	73	28	69	27	63	24
355	Terra Cotta-DK	345	135	329	129	296	116
356	Terra Cotta-MD	56	22	53	20	48	18
370	Mustard-MD	85	33	81	31	73	28
371	Mustard	211	83	201	79	181	71
372	Mustard-LT	85	33	81	31	73	28
400	Mahogany-DK	47	18	45	17	41	16
402	Mahogany-VY LT	41	16	39	15	36	14
407	Desert Sand-DK	98	38	93	36	84	33
413	Pewter Gray-DK	69	27	66	25	59	23
415	Pearl Gray	37	14	35	13	32	12
420	Hazelnut Brown-DK	581	228	553	217	498	196
433	Brown-MD	178	70	170	66	153	60
435	Brown-VY LT	323	127	307	120	277	109
436	Tan	273	107	260	102	234	92
452	Shell Gray-MD	293	115	279	109	251	98
453	Shell Gray-LT	336	132	320	125	288	113
503	Blue Green-MD	17	6	17	6	15	5
522	Fern Green	81	31	77	30	69	27
523	Fern Green-LT	26	10	25	9	23	9
524	Fern Green-VY LT	140	55	134	52	120	47
535	Ash Gray-VY LT	232	91	221	87	199	78
543	Beige Brown-UL VY LT	547	215	521	205	469	184
610	Drab Brown-DK	373	146	355	139	320	125
611	Drab Brown	370	145	352	138	317	124
612	Drab Brown-LT	310	122	295	116	265	104
632	Desert Sand-UL VY DK	1692	666	1611	634	1450	570
640	Beige Gray-VY DK	237	93	226	88	203	79
644	Beige Gray-MD	144	56	137	53	123	48
645	Beaver Gray-VY DK	259	101	246	96	222	87
646	Beaver Gray-DK	190	74	181	71	163	64
647	Beaver Gray-MD	231	90	220	86	198	77
712	Cream	129	50	123	48	111	43
722	Orange Spice-LT	11	4	10	3	9	3
726	Topaz-LT	11	4	10	3	9	3
730	Olive Green-VY DK	46	18	44	17	39	15
738	Tan-VY LT	136	53	130	51	117	46
739	Tan-UL VY LT	120	47	114	44	103	40
754	Peach-LT	66	25	63	24	57	22
758	Terra Cotta-VY LT	29	11	28	11	25	9
762	Pearl Gray-VY LT	34	13	32	12	29	11
801	Coffee Brown-DK	93	36	89	35	80	31
814	Garnet-DK	503	198	479	188	431	169
815	Garnet-MD	23	9	22	8	20	7
819	Baby Pink-LT	349	137	333	131	300	118

829	Golden Olive-VY DK	252	99	240	94	216	85
830	Golden Olive-DK	98	38	94	37	84	33
831	Golden Olive-MD	126	49	120	47	108	42
832	Golden Olive	15	5	14	5	13	5
838	Beige Brown-VY DK	3306	1301	3149	1239	2834	1115
839	Beige Brown-DK	1199	472	1142	449	1028	404
840	Beige Brown-MD	359	141	342	134	308	121
841	Beige Brown-LT	331	130	316	124	284	111
842	Beige Brown-VY LT	102	40	98	38	88	34
844	Beaver Brown-UL DK	406	159	386	151	348	137
869	Hazelnut Brown-VY DK	192	75	183	72	165	64
898	Coffee Brown-VY DK	219	86	208	81	188	74
902	Garnet-VY DK	617	242	588	231	529	208
918	Red Copper-DK	37	14	35	13	32	12
924	Gray Green--VY DK	94	37	89	35	81	31
926	Gray Green-MD	77	30	73	28	66	25
927	Gray Green-LT	88	34	84	33	75	29
928	Gray Green-VY LT	85	33	81	31	73	28
934	Black Avocado Green	295	116	281	110	253	99
938	Coffee Brown-UL DK	875	344	833	327	750	295
948	Peach-VY LT	181	71	172	67	155	61
950	Desert Sand-LT	419	164	399	157	359	141
951	Tawny-LT	67	26	64	25	58	22
975	Golden Brown-DK	252	99	240	94	216	85
976	Golden Brown-MD	31	12	30	11	27	10
977	Golden Brown-LT	94	37	90	35	81	31
3011	Khaki Green-DK	66	25	63	24	57	22
3021	Brown Gray-VY DK	903	355	860	338	774	304
3022	Brown Gray-MD	383	150	365	143	329	129
3024	Brown Gray-VY LT	92	36	87	34	79	31
3031	Mocha Brown-VY DK	46	18	44	17	39	15
3032	Mocha Brown-MD	250	98	238	93	215	84
3041	Antique Violet-MD	76	29	72	28	65	25
3042	Antique Violet-LT	38	14	36	14	33	12
3052	Green Gray-MD	77	30	73	28	66	25
3064	Desert Sand	174	68	166	65	149	58
3072	Beaver Gray-VY LT	104	40	99	38	90	35
3362	Pine Green-DK	220	86	210	82	189	74
3371	Black Brown	2727	1073	2597	1022	2337	920
3685	Mauve-DK	524	206	499	196	449	176
3721	Shell Pink-DK	319	125	304	119	274	107
3722	Shell Pink-MD	47	18	44	17	40	15
3740	Antique Violet-DK	30	11	28	11	26	10
3743	Antique Violet-VY LT	34	13	32	12	29	11
3756	Baby Blue-UL VY LT	73	28	69	27	62	24
3770	Tawny-VY LT	183	72	175	68	157	61
3772	Desert Sand-VY DK	878	345	836	329	752	296
3776	Mahogany-LT	88	34	84	33	75	29
3778	Terra Cotta-LT	39	15	37	14	33	12
3781	Mocha Brown-DK	537	211	511	201	460	181
3782	Mocha Brown-LT	277	109	263	103	237	93
3787	Brown Gray-DK	457	179	435	171	392	154
3790	Beige Gray-UL DK	421	165	401	157	361	142
3799	Pewter Gray-VY DK	3105	1222	2958	1164	2662	1048
3802	Antique Mauve-VY DK	208	81	198	77	178	70
3820	Straw-DK	7	2	7	2	6	2
3823	Yellow-UL Pale	14	5	13	5	12	4
3824	Apricot-LT	14	5	13	5	12	4
3825	Pumpkin-Pale	11	4	11	4	10	3

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3826	Golden Brown	183	72	174	68	157	61
3828	Hazelnut Brown	431	169	411	161	370	145
3830	Terra Cotta-MD	125	49	119	46	107	42
3853	Autumn Gold-DK	53	20	50	19	45	17
3854	Autumn Gold-MD	15	5	14	5	13	5
3856	Mahogany-UL VY LT	187	73	178	70	160	62
3857	Rosewood-DK	251	98	239	94	216	85
3859	Rosewood-LT	119	46	114	44	102	40
3860	Cocoa	81	31	77	30	69	27
3861	Cocoa-LT	180	70	172	67	154	60
3862	Mocha Beige-DK	485	190	462	181	416	163
3863	Mocha Beige-MD	299	117	284	111	256	100
3864	Mocha Beige-LT	558	219	532	209	479	188
3865	Winter White	739	290	704	277	633	249
3866	Mocha Brown-UL VY LT	533	209	507	199	457	179

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	459	180	383	150	191	75
221	Shell Pink-VY DK	610	239	509	200	254	100
223	Shell Pink-LT	20	7	17	6	8	3
300	Mahogany-VY DK	158	61	132	51	66	26
301	Mahogany-MD	148	58	123	48	62	24
310	Black	7870	3098	6558	2582	3279	1291
315	Antique Mauve-VY DK	169	67	141	56	71	28
317	Pewter Gray	169	67	141	56	71	28
326	Rose-VY DK	113	43	95	36	47	18
355	Terra Cotta-DK	533	209	444	174	222	87
356	Terra Cotta-MD	86	32	72	27	36	14
370	Mustard-MD	131	50	110	42	55	21
371	Mustard	326	128	272	107	136	53
372	Mustard-LT	131	50	110	42	55	21
400	Mahogany-DK	74	29	62	24	31	12
402	Mahogany-VY LT	65	25	54	21	27	11
407	Desert Sand-DK	151	59	126	50	63	25
413	Pewter Gray-DK	106	41	89	35	44	17
415	Pearl Gray	58	22	48	18	24	9
420	Hazelnut Brown-DK	896	353	747	294	374	147
433	Brown-MD	275	108	230	90	115	45
435	Brown-VY LT	499	196	416	164	208	82
436	Tan	421	166	351	138	176	69
452	Shell Gray-MD	452	176	377	147	188	74
453	Shell Gray-LT	518	203	432	170	216	85
503	Blue Green-MD	27	9	23	8	11	4
522	Fern Green	124	49	104	41	52	20
523	Fern Green-LT	41	16	35	14	17	7
524	Fern Green-VY LT	216	85	180	71	90	35
535	Ash Gray-VY LT	358	140	299	117	149	59
543	Beige Brown-UL VY LT	844	331	704	276	352	138
610	Drab Brown-DK	576	225	480	188	240	94
611	Drab Brown	571	223	476	186	238	93
612	Drab Brown-LT	477	187	398	156	199	78
632	Desert Sand-UL VY DK	2610	1026	2175	855	1088	428
640	Beige Gray-VY DK	365	142	305	119	152	59
644	Beige Gray-MD	221	86	185	72	92	36

645	Beaver Gray-VY DK	400	157	333	131	167	65
646	Beaver Gray-DK	293	115	245	96	122	48
647	Beaver Gray-MD	356	139	297	116	149	58
712	Cream	200	77	167	65	83	32
722	Orange Spice-LT	16	5	14	5	7	2
726	Topaz-LT	16	5	14	5	7	2
730	Olive Green-VY DK	70	27	59	23	29	11
738	Tan-VY LT	211	83	176	69	88	35
739	Tan-UL VY LT	185	72	155	60	77	30
754	Peach-LT	103	40	86	33	43	17
758	Terra Cotta-VY LT	45	16	38	14	19	7
762	Pearl Gray-VY LT	52	20	44	17	22	8
801	Coffee Brown-DK	144	56	120	47	60	23
814	Garnet-DK	776	304	647	254	323	127
815	Garnet-MD	36	13	30	11	15	5
819	Baby Pink-LT	540	212	450	177	225	89
829	Golden Olive-VY DK	389	153	324	128	162	64
830	Golden Olive-DK	151	59	126	50	63	25
831	Golden Olive-MD	194	76	162	63	81	32
832	Golden Olive	23	9	20	8	10	4
838	Beige Brown-VY DK	5101	2007	4251	1673	2126	836
839	Beige Brown-DK	1850	727	1542	606	771	303
840	Beige Brown-MD	554	218	462	182	231	91
841	Beige Brown-LT	511	200	426	167	213	83
842	Beige Brown-VY LT	158	61	132	51	66	26
844	Beaver Brown-UL DK	626	247	522	206	261	103
869	Hazelnut Brown-VY DK	297	115	248	96	124	48
898	Coffee Brown-VY DK	338	133	282	111	141	56
902	Garnet-VY DK	952	374	794	312	397	156
918	Red Copper-DK	58	22	48	18	24	9
924	Gray Green--VY DK	146	56	122	47	61	23
926	Gray Green-MD	119	45	99	38	50	19
927	Gray Green-LT	135	52	113	44	56	22
928	Gray Green-VY LT	131	50	110	42	55	21
934	Black Avocado Green	455	178	380	149	190	74
938	Coffee Brown-UL DK	1350	531	1125	443	563	221
948	Peach-VY LT	279	110	233	92	116	46
950	Desert Sand-LT	646	254	539	212	269	106
951	Tawny-LT	104	40	87	33	44	17
975	Golden Brown-DK	389	153	324	128	162	64
976	Golden Brown-MD	49	18	41	15	20	8
977	Golden Brown-LT	146	56	122	47	61	23
3011	Khaki Green-DK	103	40	86	33	43	17
3021	Brown Gray-VY DK	1393	547	1161	456	581	228
3022	Brown Gray-MD	592	232	494	194	247	97
3024	Brown Gray-VY LT	142	56	119	47	59	23
3031	Mocha Brown-VY DK	70	27	59	23	29	11
3032	Mocha Brown-MD	387	151	323	126	161	63
3041	Antique Violet-MD	117	45	98	38	49	19
3042	Antique Violet-LT	59	22	50	18	25	9
3052	Green Gray-MD	119	45	99	38	50	19
3064	Desert Sand	268	104	224	87	112	44
3072	Beaver Gray-VY LT	162	63	135	53	68	26
3362	Pine Green-DK	340	133	284	111	142	56
3371	Black Brown	4207	1656	3506	1380	1753	690
3685	Mauve-DK	808	317	674	264	337	132
3721	Shell Pink-DK	493	193	411	161	206	80
3722	Shell Pink-MD	72	27	60	23	30	11
3740	Antique Violet-DK	47	18	39	15	20	8

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3743	Antique Violet-VY LT	52	20	44	17	22	8
3756	Baby Blue-UL VY LT	112	43	93	36	47	18
3770	Tawny-VY LT	283	110	236	92	118	46
3772	Desert Sand-VY DK	1354	533	1128	444	564	222
3776	Mahogany-LT	135	52	113	44	56	22
3778	Terra Cotta-LT	59	22	50	18	25	9
3781	Mocha Brown-DK	828	326	690	272	345	136
3782	Mocha Brown-LT	427	167	356	140	178	70
3787	Brown Gray-DK	706	277	588	231	294	116
3790	Beige Gray-UL DK	650	256	542	213	271	107
3799	Pewter Gray-VY DK	4792	1886	3993	1572	1997	786
3802	Antique Mauve-VY DK	320	126	267	105	134	53
3820	Straw-DK	11	4	9	3	5	2
3823	Yellow-UL Pale	22	7	18	6	9	3
3824	Apricot-LT	22	7	18	6	9	3
3825	Pumpkin-Pale	18	5	15	5	8	2
3826	Golden Brown	283	110	236	92	118	46
3828	Hazelnut Brown	666	261	555	218	278	109
3830	Terra Cotta-MD	193	76	161	63	80	32
3853	Autumn Gold-DK	81	31	68	26	34	13
3854	Autumn Gold-MD	23	9	20	8	10	4
3856	Mahogany-UL VY LT	288	112	240	93	120	47
3857	Rosewood-DK	389	153	324	128	162	64
3859	Rosewood-LT	184	72	153	60	77	30
3860	Cocoa	124	49	104	41	52	20
3861	Cocoa-LT	277	108	231	90	116	45
3862	Mocha Beige-DK	749	293	624	245	312	122
3863	Mocha Beige-MD	461	180	384	150	192	75
3864	Mocha Beige-LT	862	338	719	282	359	141
3865	Winter White	1139	448	950	374	475	187
3866	Mocha Brown-UL VY LT	823	322	686	269	343	134

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	184	72	177	69	170	67
221	Shell Pink-VY DK	244	96	235	92	226	89
223	Shell Pink-LT	8	3	8	3	7	3
300	Mahogany-VY DK	63	24	61	24	59	23
301	Mahogany-MD	59	23	57	22	55	21
310	Black	3148	1239	3027	1191	2915	1147
315	Antique Mauve-VY DK	68	27	65	26	63	25
317	Pewter Gray	68	27	65	26	63	25
326	Rose-VY DK	45	17	44	17	42	16
355	Terra Cotta-DK	213	84	205	80	197	77
356	Terra Cotta-MD	35	13	33	12	32	12
370	Mustard-MD	53	20	51	19	49	19
371	Mustard	130	51	125	49	121	47
372	Mustard-LT	53	20	51	19	49	19
400	Mahogany-DK	30	12	28	11	27	11
402	Mahogany-VY LT	26	10	25	10	24	9
407	Desert Sand-DK	60	24	58	23	56	22
413	Pewter Gray-DK	42	17	41	16	39	15
415	Pearl Gray	23	9	22	8	21	8
420	Hazelnut Brown-DK	359	141	345	136	332	131
433	Brown-MD	110	43	106	42	102	40

435	Brown-VY LT	199	78	192	75	185	73
436	Tan	168	66	162	64	156	61
452	Shell Gray-MD	181	71	174	68	167	65
453	Shell Gray-LT	207	81	199	78	192	75
503	Blue Green-MD	11	4	10	3	10	3
522	Fern Green	50	19	48	19	46	18
523	Fern Green-LT	17	6	16	6	15	6
524	Fern Green-VY LT	86	34	83	33	80	31
535	Ash Gray-VY LT	143	56	138	54	133	52
543	Beige Brown-UL VY LT	338	132	325	127	313	123
610	Drab Brown-DK	230	90	222	87	213	83
611	Drab Brown	228	89	219	86	211	83
612	Drab Brown-LT	191	75	183	72	177	69
632	Desert Sand-UL VY DK	1044	410	1004	395	967	380
640	Beige Gray-VY DK	146	57	141	55	135	53
644	Beige Gray-MD	89	35	85	33	82	32
645	Beaver Gray-VY DK	160	63	154	60	148	58
646	Beaver Gray-DK	117	46	113	44	109	43
647	Beaver Gray-MD	143	55	137	53	132	51
712	Cream	80	31	77	30	74	29
722	Orange Spice-LT	6	2	6	2	6	2
726	Topaz-LT	6	2	6	2	6	2
730	Olive Green-VY DK	28	11	27	10	26	10
738	Tan-VY LT	84	33	81	32	78	31
739	Tan-UL VY LT	74	29	71	28	69	27
754	Peach-LT	41	16	39	15	38	15
758	Terra Cotta-VY LT	18	6	17	6	17	6
762	Pearl Gray-VY LT	21	8	20	8	19	7
801	Coffee Brown-DK	58	22	55	21	53	21
814	Garnet-DK	310	122	298	117	287	113
815	Garnet-MD	14	5	14	5	13	5
819	Baby Pink-LT	216	85	208	82	200	79
829	Golden Olive-VY DK	156	61	150	59	144	57
830	Golden Olive-DK	60	24	58	23	56	22
831	Golden Olive-MD	78	30	75	29	72	28
832	Golden Olive	9	4	9	3	9	3
838	Beige Brown-VY DK	2040	803	1962	772	1889	743
839	Beige Brown-DK	740	291	712	280	685	269
840	Beige Brown-MD	222	87	213	84	205	81
841	Beige Brown-LT	204	80	197	77	189	74
842	Beige Brown-VY LT	63	24	61	24	59	23
844	Beaver Brown-UL DK	251	99	241	95	232	91
869	Hazelnut Brown-VY DK	119	46	114	44	110	43
898	Coffee Brown-VY DK	135	53	130	51	125	49
902	Garnet-VY DK	381	150	366	144	353	139
918	Red Copper-DK	23	9	22	8	21	8
924	Gray Green--VY DK	58	22	56	21	54	21
926	Gray Green-MD	48	18	46	17	44	17
927	Gray Green-LT	54	21	52	20	50	19
928	Gray Green-VY LT	53	20	51	19	49	19
934	Black Avocado Green	182	71	175	69	169	66
938	Coffee Brown-UL DK	540	212	519	204	500	197
948	Peach-VY LT	112	44	107	42	103	41
950	Desert Sand-LT	258	102	249	98	239	94
951	Tawny-LT	42	16	40	15	39	15
975	Golden Brown-DK	156	61	150	59	144	57
976	Golden Brown-MD	19	7	19	7	18	7
977	Golden Brown-LT	58	22	56	21	54	21
3011	Khaki Green-DK	41	16	39	15	38	15

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3021	Brown Gray-VY DK	557	219	536	210	516	203
3022	Brown Gray-MD	237	93	228	89	219	86
3024	Brown Gray-VY LT	57	22	55	21	53	21
3031	Mocha Brown-VY DK	28	11	27	10	26	10
3032	Mocha Brown-MD	155	60	149	58	143	56
3041	Antique Violet-MD	47	18	45	17	43	17
3042	Antique Violet-LT	24	9	23	8	22	8
3052	Green Gray-MD	48	18	46	17	44	17
3064	Desert Sand	107	42	103	40	99	39
3072	Beaver Gray-VY LT	65	25	62	24	60	23
3362	Pine Green-DK	136	53	131	51	126	49
3371	Black Brown	1683	662	1618	637	1558	613
3685	Mauve-DK	323	127	311	122	299	117
3721	Shell Pink-DK	197	77	190	74	183	71
3722	Shell Pink-MD	29	11	28	10	27	10
3740	Antique Violet-DK	19	7	18	7	17	7
3743	Antique Violet-VY LT	21	8	20	8	19	7
3756	Baby Blue-UL VY LT	45	17	43	17	41	16
3770	Tawny-VY LT	113	44	109	42	105	41
3772	Desert Sand-VY DK	541	213	521	205	501	197
3776	Mahogany-LT	54	21	52	20	50	19
3778	Terra Cotta-LT	24	9	23	8	22	8
3781	Mocha Brown-DK	331	130	318	125	307	121
3782	Mocha Brown-LT	171	67	164	64	158	62
3787	Brown Gray-DK	282	111	271	107	261	103
3790	Beige Gray-UL DK	260	102	250	98	241	95
3799	Pewter Gray-VY DK	1917	755	1843	726	1775	699
3802	Antique Mauve-VY DK	128	50	123	48	119	47
3820	Straw-DK	4	1	4	1	4	1
3823	Yellow-UL Pale	9	3	8	3	8	3
3824	Apricot-LT	9	3	8	3	8	3
3825	Pumpkin-Pale	7	2	7	2	7	2
3826	Golden Brown	113	44	109	42	105	41
3828	Hazelnut Brown	266	104	256	100	247	97
3830	Terra Cotta-MD	77	30	74	29	71	28
3853	Autumn Gold-DK	32	12	31	12	30	11
3854	Autumn Gold-MD	9	4	9	3	9	3
3856	Mahogany-UL VY LT	115	45	111	43	107	41
3857	Rosewood-DK	156	61	150	59	144	57
3859	Rosewood-LT	73	29	71	28	68	27
3860	Cocoa	50	19	48	19	46	18
3861	Cocoa-LT	111	43	107	42	103	40
3862	Mocha Beige-DK	300	117	288	113	277	109
3863	Mocha Beige-MD	184	72	177	69	171	67
3864	Mocha Beige-LT	345	135	332	130	319	125
3865	Winter White	456	179	438	172	422	166
3866	Mocha Brown-UL VY LT	329	129	316	124	305	119

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	164	64	153	60	143	56
221	Shell Pink-VY DK	218	86	203	80	191	75
223	Shell Pink-LT	7	3	7	2	6	2
300	Mahogany-VY DK	57	22	53	20	50	19
301	Mahogany-MD	53	21	49	19	46	18

310	Black	2811	1106	2623	1033	2459	968
315	Antique Mauve-VY DK	60	24	56	22	53	21
317	Pewter Gray	60	24	56	22	53	21
326	Rose-VY DK	41	15	38	14	35	14
355	Terra Cotta-DK	190	75	178	70	167	65
356	Terra Cotta-MD	31	12	29	11	27	10
370	Mustard-MD	47	18	44	17	41	16
371	Mustard	116	46	109	43	102	40
372	Mustard-LT	47	18	44	17	41	16
400	Mahogany-DK	26	10	25	10	23	9
402	Mahogany-VY LT	23	9	22	8	20	8
407	Desert Sand-DK	54	21	50	20	47	19
413	Pewter Gray-DK	38	15	35	14	33	13
415	Pearl Gray	21	8	19	7	18	7
420	Hazelnut Brown-DK	320	126	299	118	280	110
433	Brown-MD	98	39	92	36	86	34
435	Brown-VY LT	178	70	166	65	156	61
436	Tan	150	59	140	55	132	52
452	Shell Gray-MD	161	63	151	59	141	55
453	Shell Gray-LT	185	73	173	68	162	64
503	Blue Green-MD	10	3	9	3	8	3
522	Fern Green	44	17	41	16	39	15
523	Fern Green-LT	15	6	14	5	13	5
524	Fern Green-VY LT	77	30	72	28	68	26
535	Ash Gray-VY LT	128	50	119	47	112	44
543	Beige Brown-UL VY LT	302	118	281	110	264	104
610	Drab Brown-DK	206	80	192	75	180	70
611	Drab Brown	204	80	190	74	178	70
612	Drab Brown-LT	170	67	159	62	149	59
632	Desert Sand-UL VY DK	932	366	870	342	816	321
640	Beige Gray-VY DK	131	51	122	47	114	44
644	Beige Gray-MD	79	31	74	29	69	27
645	Beaver Gray-VY DK	143	56	133	52	125	49
646	Beaver Gray-DK	105	41	98	38	92	36
647	Beaver Gray-MD	127	50	119	46	111	43
712	Cream	71	28	67	26	62	24
722	Orange Spice-LT	6	2	5	2	5	2
726	Topaz-LT	6	2	5	2	5	2
730	Olive Green-VY DK	25	10	23	9	22	8
738	Tan-VY LT	75	30	70	28	66	26
739	Tan-UL VY LT	66	26	62	24	58	23
754	Peach-LT	37	14	34	13	32	12
758	Terra Cotta-VY LT	16	6	15	5	14	5
762	Pearl Gray-VY LT	19	7	17	7	16	6
801	Coffee Brown-DK	51	20	48	19	45	17
814	Garnet-DK	277	109	259	101	242	95
815	Garnet-MD	13	5	12	4	11	4
819	Baby Pink-LT	193	76	180	71	169	66
829	Golden Olive-VY DK	139	55	130	51	122	48
830	Golden Olive-DK	54	21	50	20	47	19
831	Golden Olive-MD	69	27	65	25	61	24
832	Golden Olive	8	3	8	3	7	3
838	Beige Brown-VY DK	1822	717	1700	669	1594	627
839	Beige Brown-DK	661	260	617	242	578	227
840	Beige Brown-MD	198	78	185	73	173	68
841	Beige Brown-LT	183	71	170	67	160	62
842	Beige Brown-VY LT	57	22	53	20	50	19
844	Beaver Brown-UL DK	224	88	209	82	196	77
869	Hazelnut Brown-VY DK	106	41	99	38	93	36

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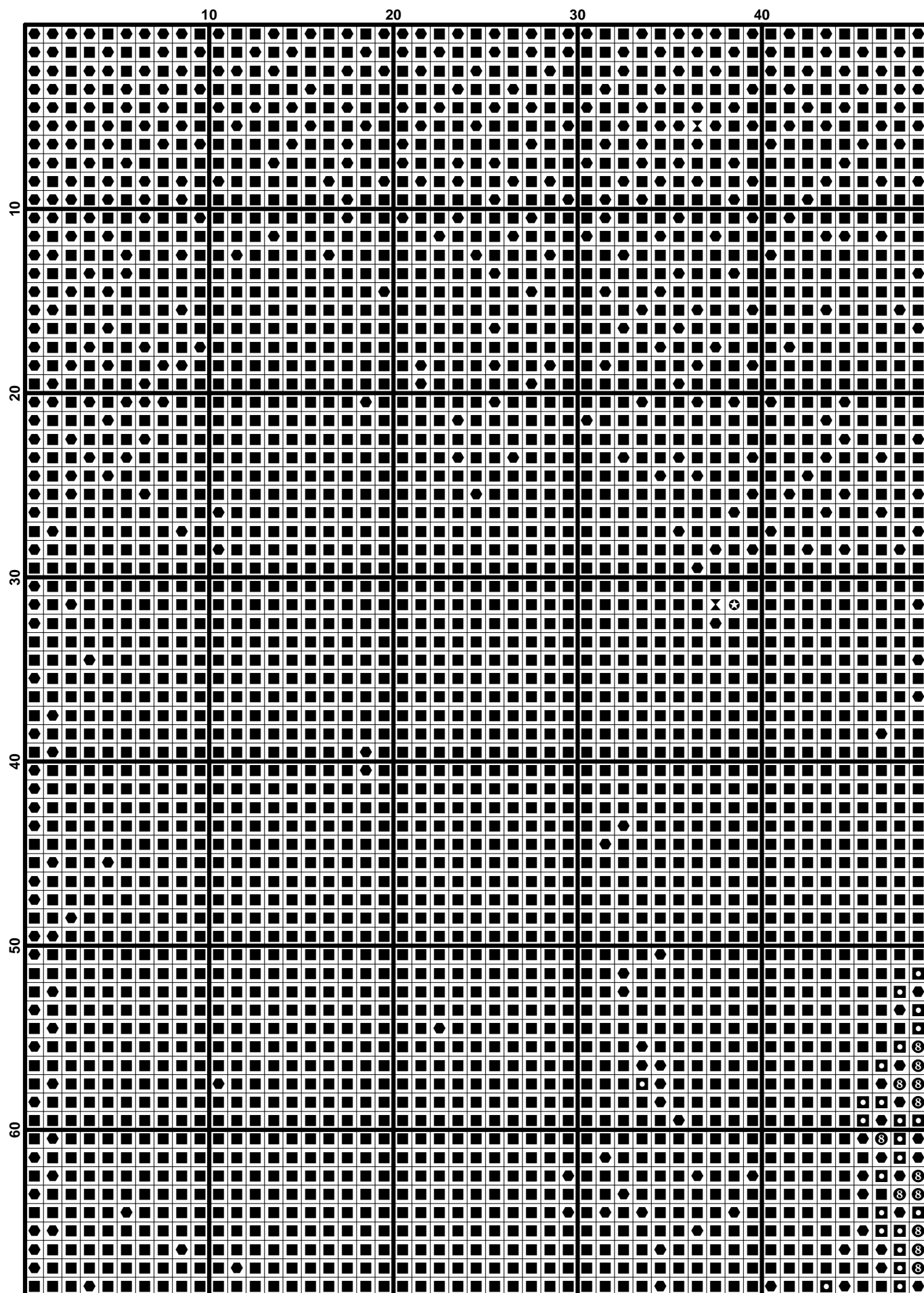
898	Coffee Brown-VY DK	121	48	113	44	106	42
902	Garnet-VY DK	340	134	317	125	298	117
918	Red Copper-DK	21	8	19	7	18	7
924	Gray Green--VY DK	52	20	49	19	46	17
926	Gray Green-MD	42	16	40	15	37	14
927	Gray Green-LT	48	19	45	17	42	16
928	Gray Green-VY LT	47	18	44	17	41	16
934	Black Avocado Green	163	64	152	59	142	56
938	Coffee Brown-UL DK	482	190	450	177	422	166
948	Peach-VY LT	100	39	93	37	87	34
950	Desert Sand-LT	231	91	215	85	202	79
951	Tawny-LT	37	14	35	13	33	12
975	Golden Brown-DK	139	55	130	51	122	48
976	Golden Brown-MD	17	6	16	6	15	6
977	Golden Brown-LT	52	20	49	19	46	17
3011	Khaki Green-DK	37	14	34	13	32	12
3021	Brown Gray-VY DK	498	195	464	182	435	171
3022	Brown Gray-MD	212	83	197	77	185	73
3024	Brown Gray-VY LT	51	20	47	19	44	17
3031	Mocha Brown-VY DK	25	10	23	9	22	8
3032	Mocha Brown-MD	138	54	129	50	121	47
3041	Antique Violet-MD	42	16	39	15	37	14
3042	Antique Violet-LT	21	8	20	7	19	7
3052	Green Gray-MD	42	16	40	15	37	14
3064	Desert Sand	96	37	89	35	84	33
3072	Beaver Gray-VY LT	58	23	54	21	51	20
3362	Pine Green-DK	122	48	113	44	106	42
3371	Black Brown	1502	591	1402	552	1315	518
3685	Mauve-DK	289	113	269	106	253	99
3721	Shell Pink-DK	176	69	164	64	154	60
3722	Shell Pink-MD	26	10	24	9	23	8
3740	Antique Violet-DK	17	6	16	6	15	6
3743	Antique Violet-VY LT	19	7	17	7	16	6
3756	Baby Blue-UL VY LT	40	15	37	14	35	14
3770	Tawny-VY LT	101	39	94	37	88	34
3772	Desert Sand-VY DK	483	190	451	178	423	167
3776	Mahogany-LT	48	19	45	17	42	16
3778	Terra Cotta-LT	21	8	20	7	19	7
3781	Mocha Brown-DK	296	116	276	109	259	102
3782	Mocha Brown-LT	152	60	142	56	133	52
3787	Brown Gray-DK	252	99	235	92	221	87
3790	Beige Gray-UL DK	232	91	217	85	203	80
3799	Pewter Gray-VY DK	1711	674	1597	629	1497	590
3802	Antique Mauve-VY DK	114	45	107	42	100	39
3820	Straw-DK	4	1	4	1	3	1
3823	Yellow-UL Pale	8	3	7	2	7	2
3824	Apricot-LT	8	3	7	2	7	2
3825	Pumpkin-Pale	6	2	6	2	6	2
3826	Golden Brown	101	39	94	37	88	34
3828	Hazelnut Brown	238	93	222	87	208	82
3830	Terra Cotta-MD	69	27	64	25	60	24
3853	Autumn Gold-DK	29	11	27	10	25	10
3854	Autumn Gold-MD	8	3	8	3	7	3
3856	Mahogany-UL VY LT	103	40	96	37	90	35
3857	Rosewood-DK	139	55	130	51	122	48
3859	Rosewood-LT	66	26	61	24	57	23
3860	Cocoa	44	17	41	16	39	15
3861	Cocoa-LT	99	39	92	36	87	34
3862	Mocha Beige-DK	267	105	250	98	234	92

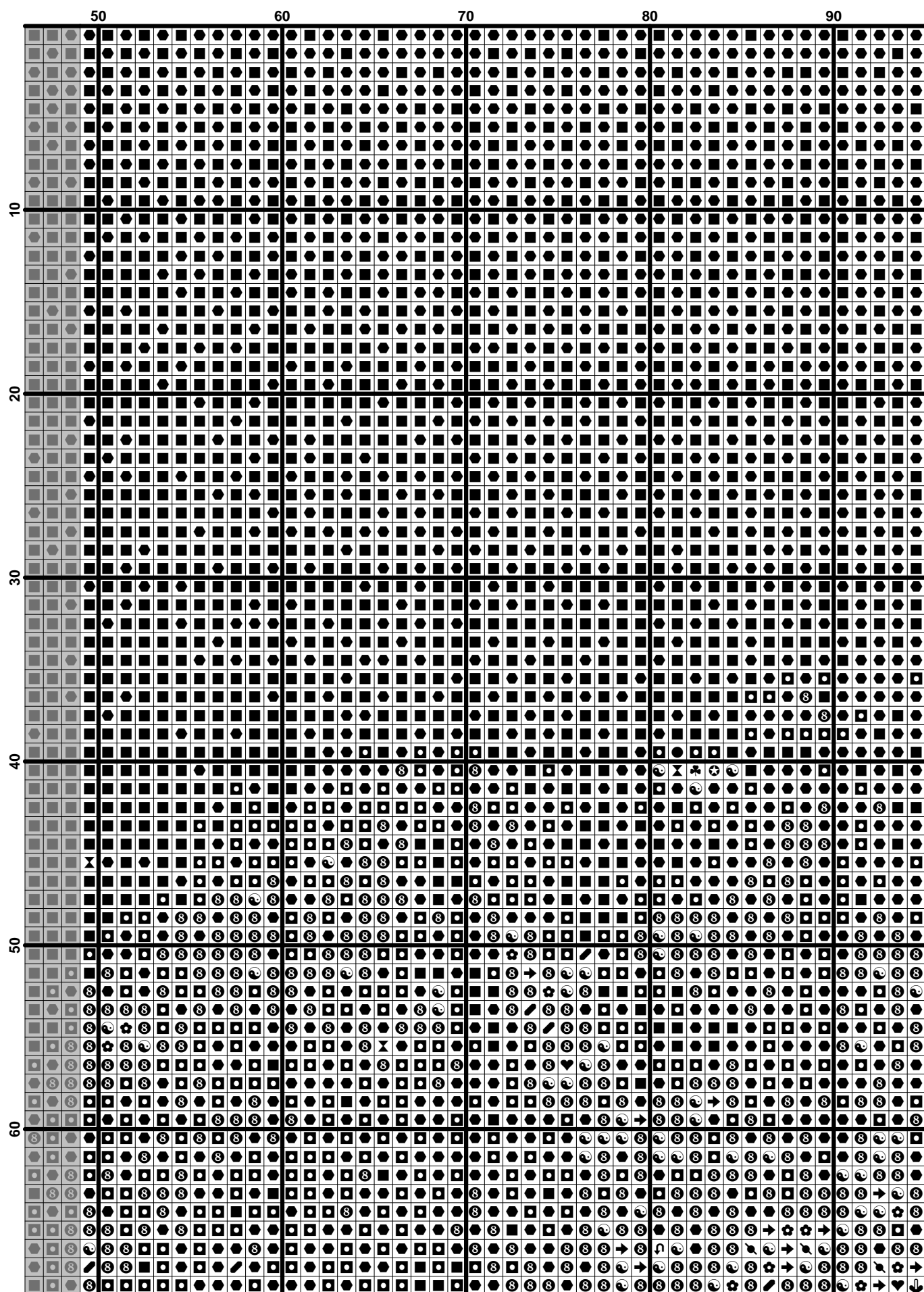
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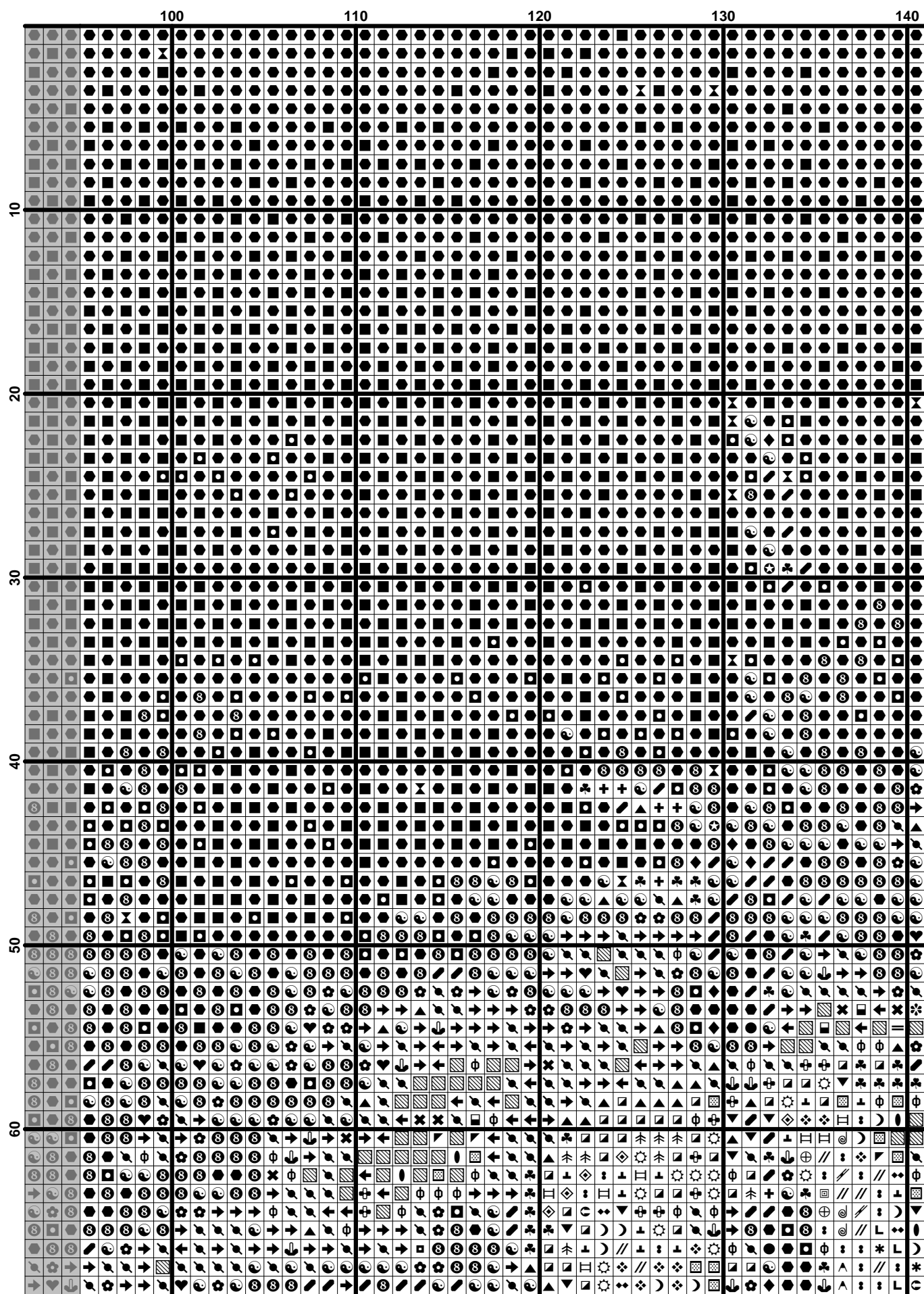
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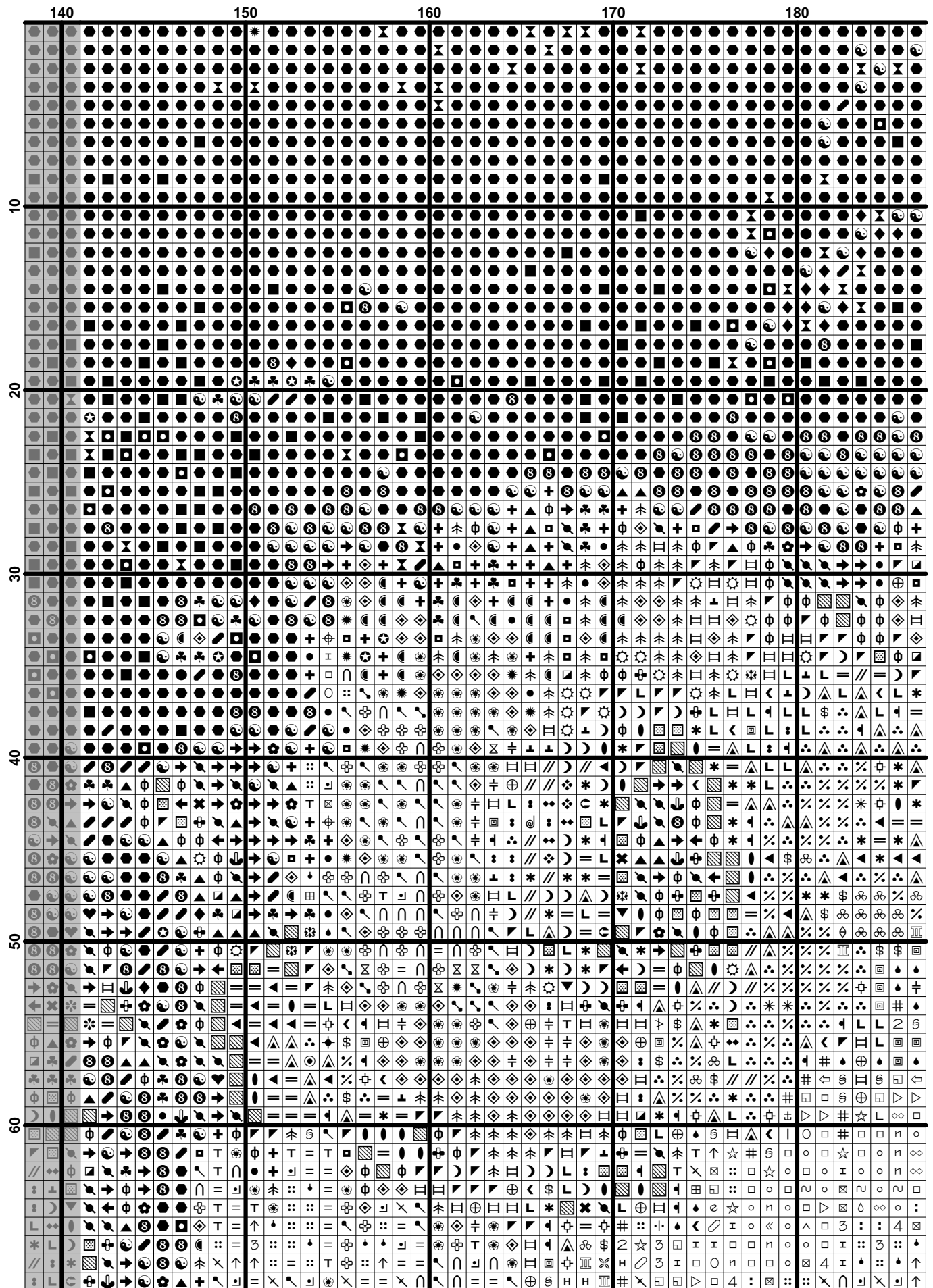
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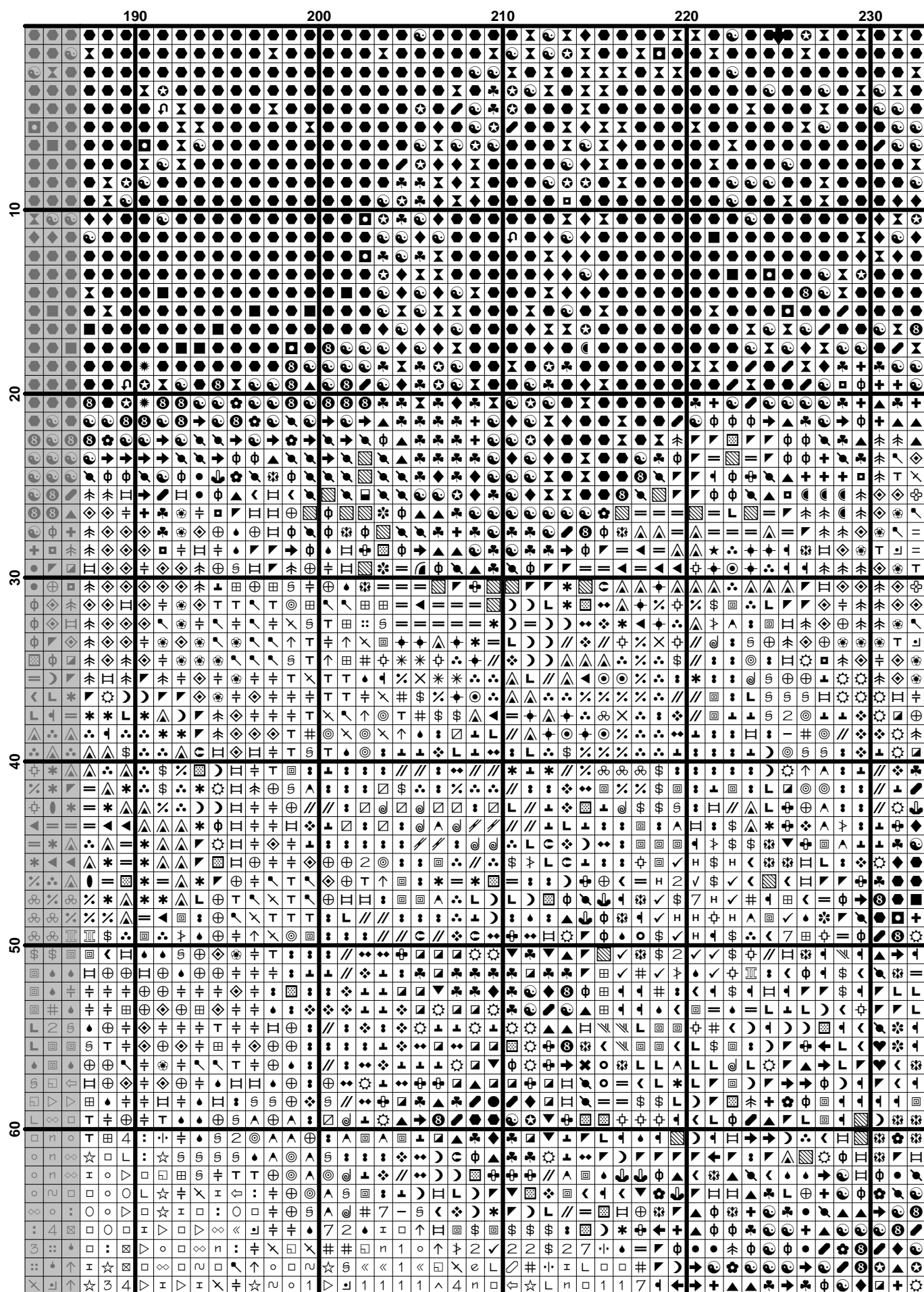
3863	Mocha Beige-MD	165	64	154	60	144	56
3864	Mocha Beige-LT	308	121	287	113	269	106
3865	Winter White	407	160	380	149	356	140
3866	Mocha Brown-UL VY LT	294	115	274	107	257	101

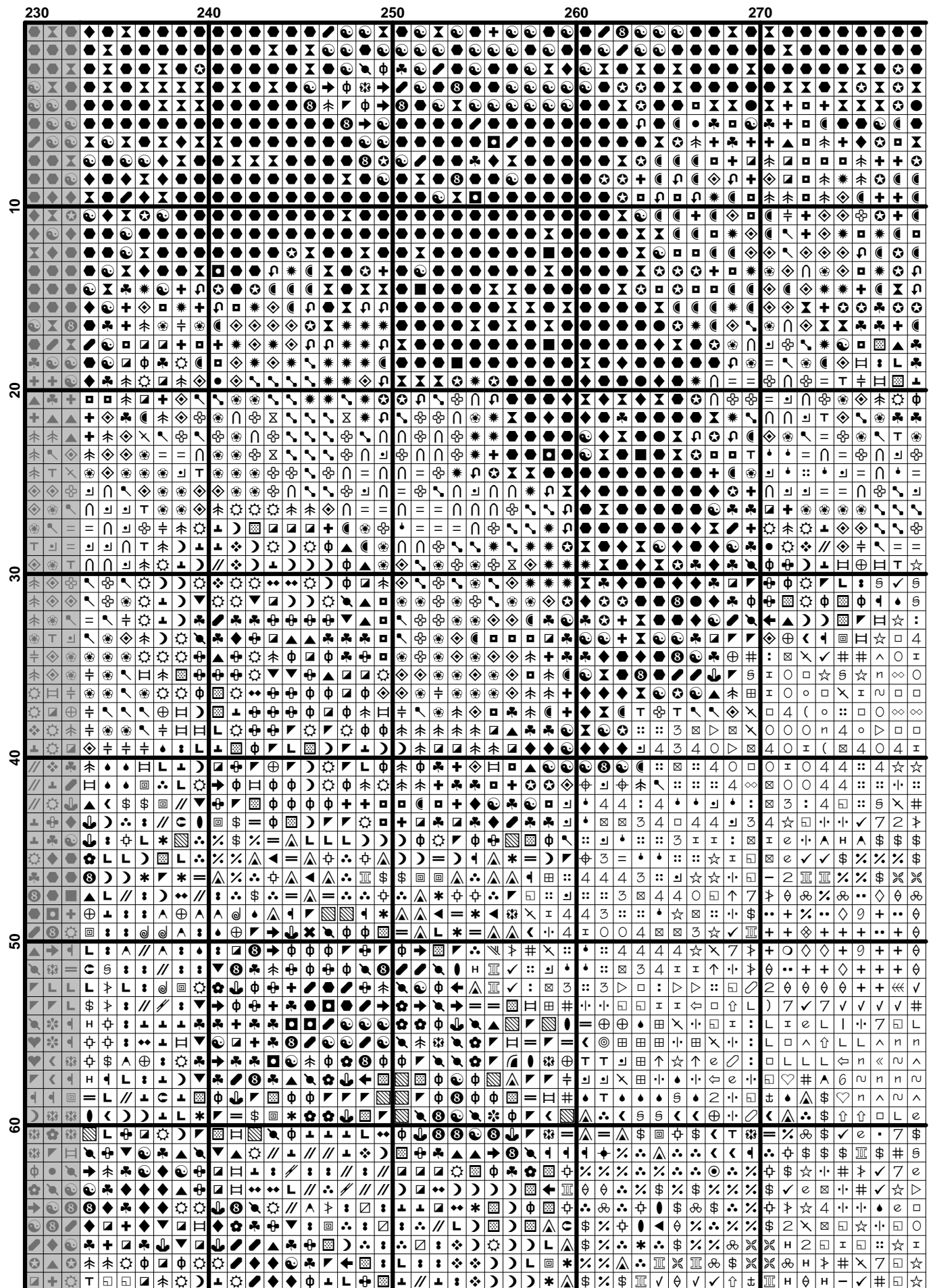




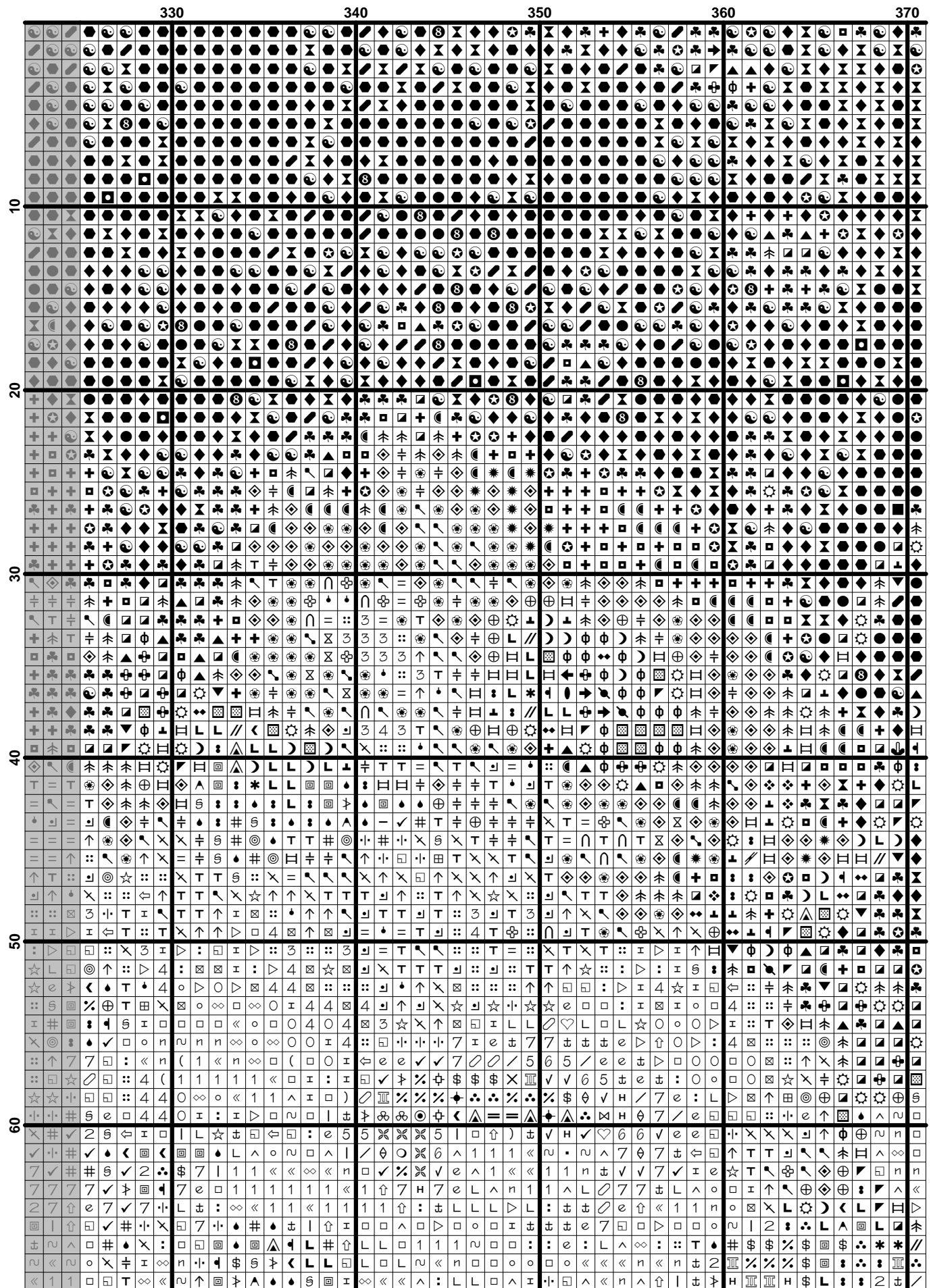


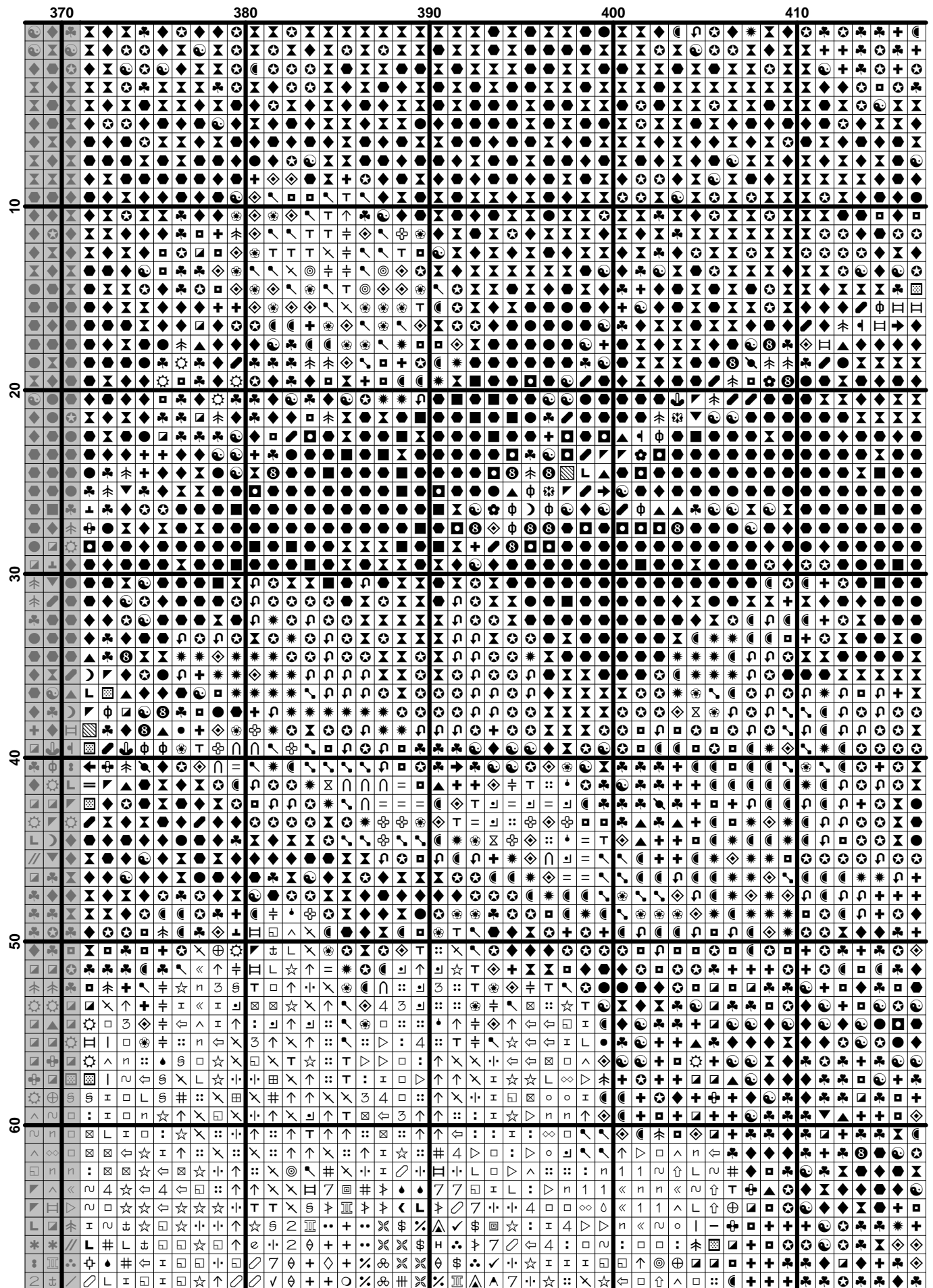


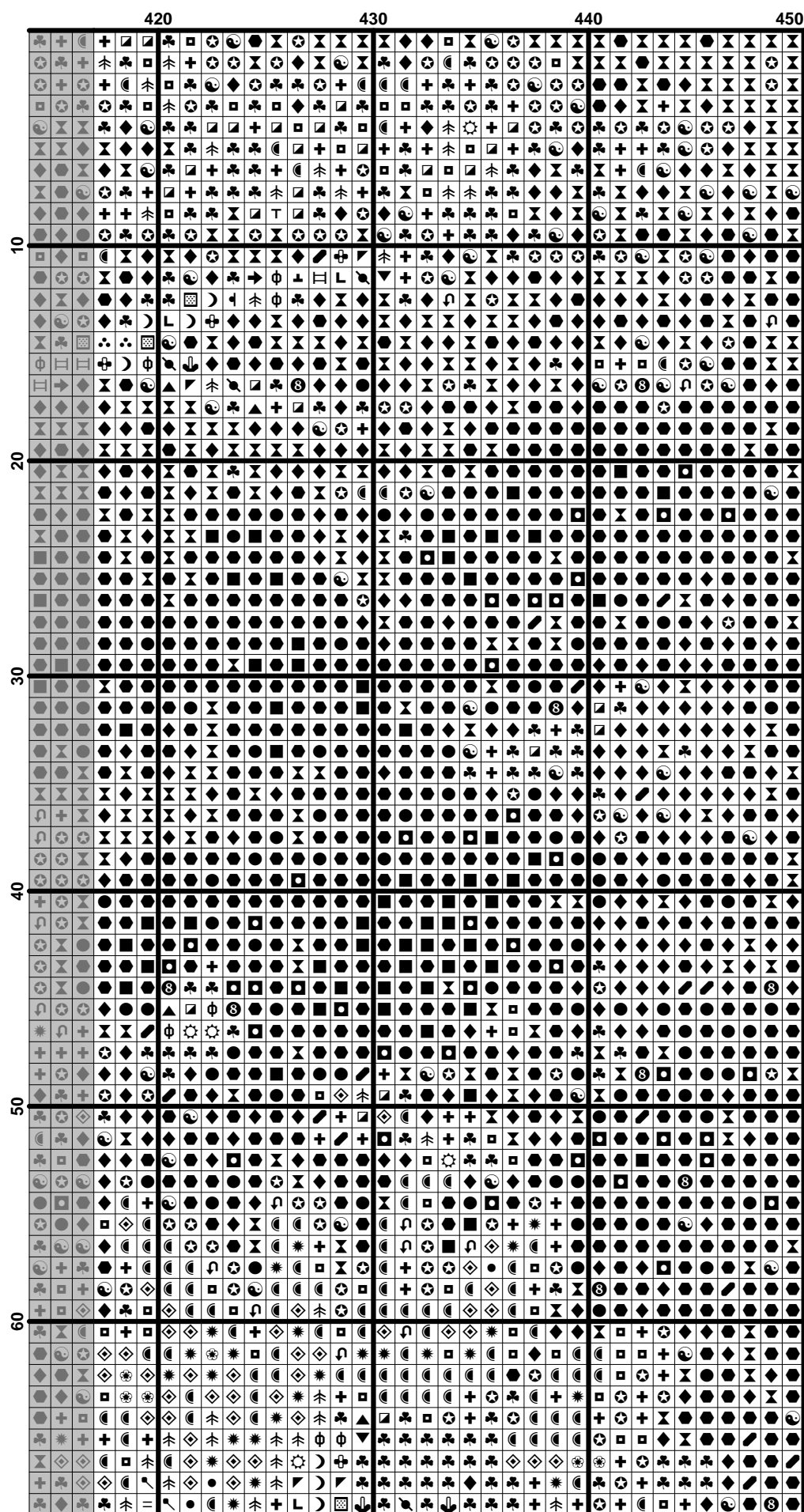


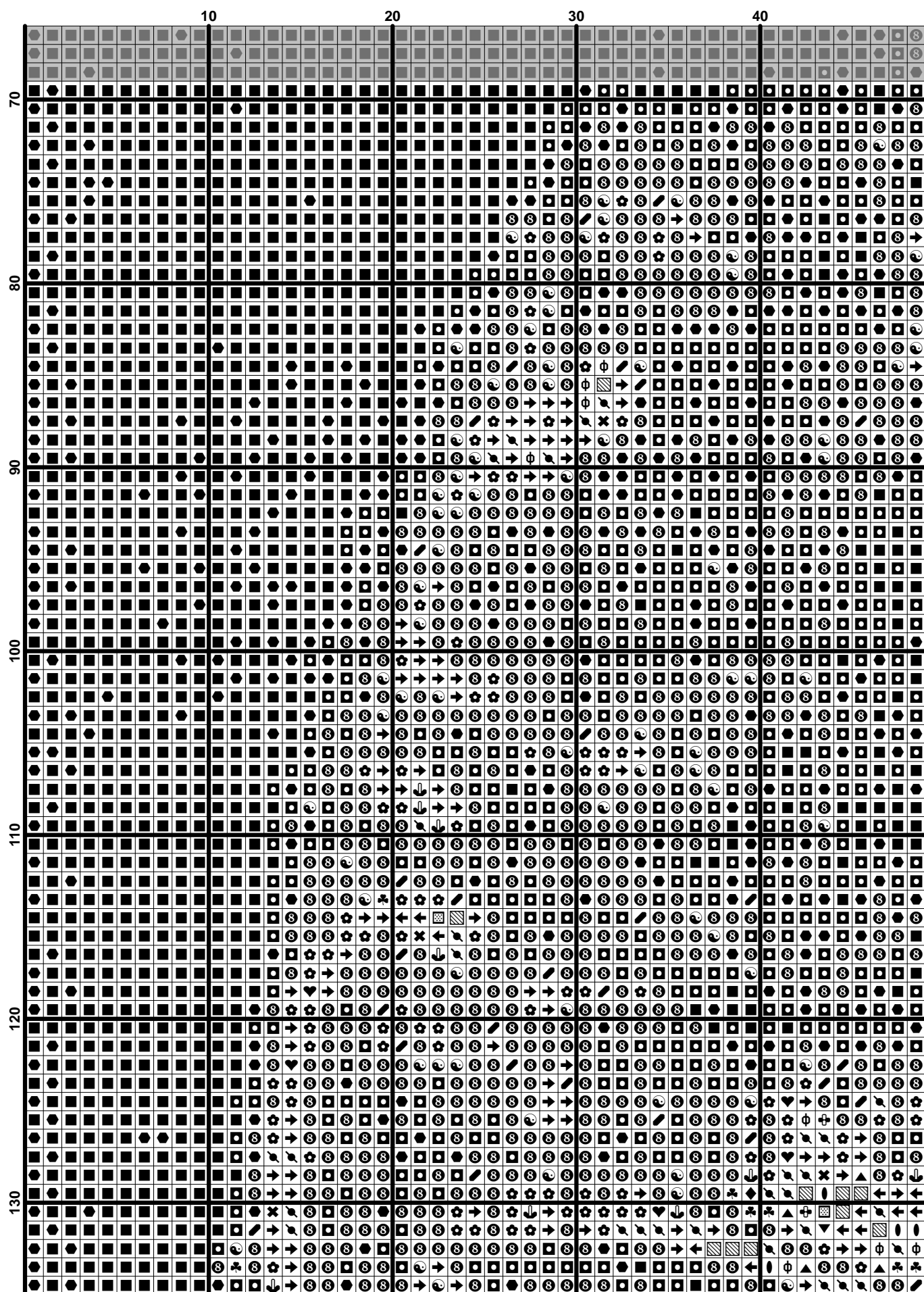


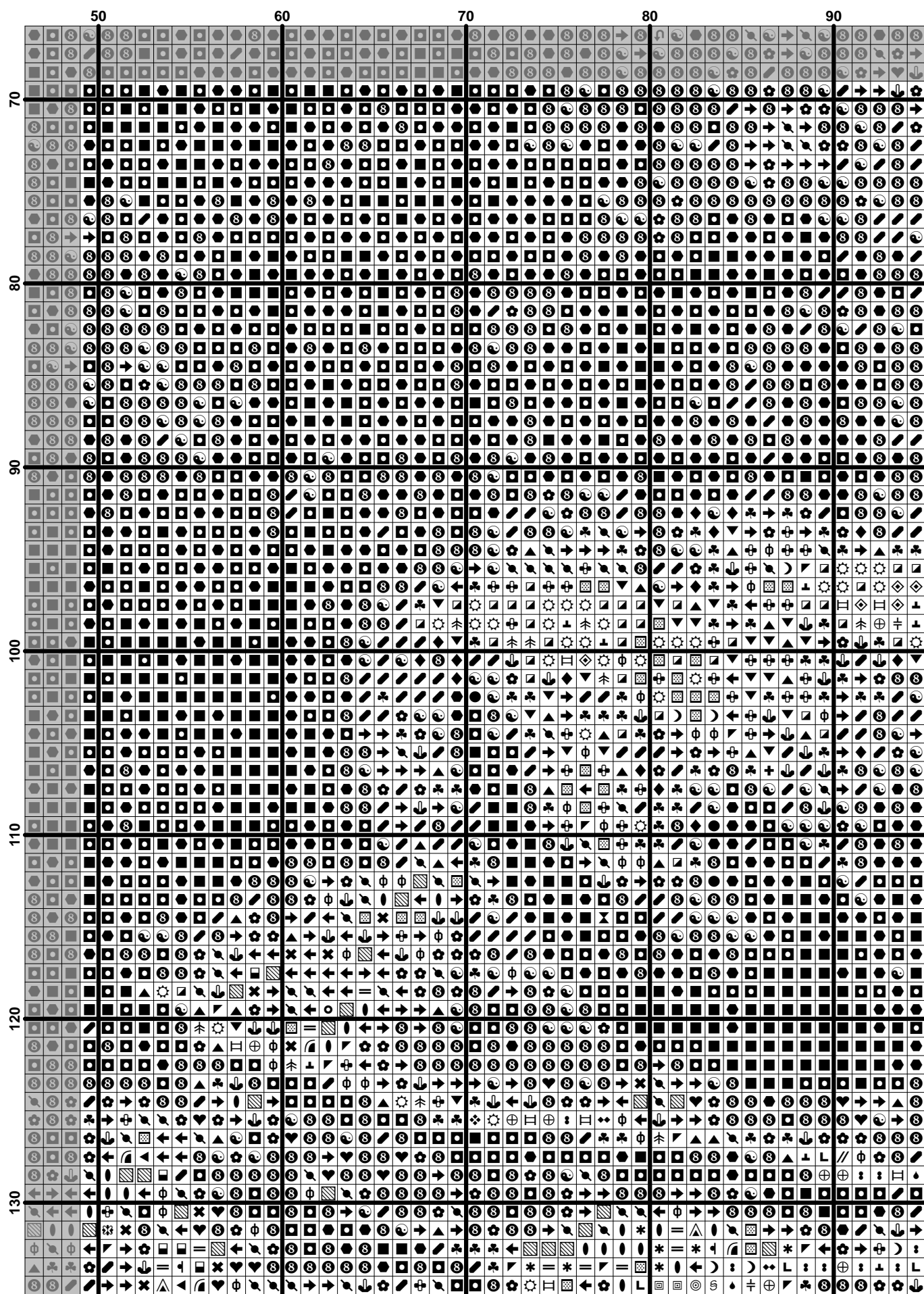


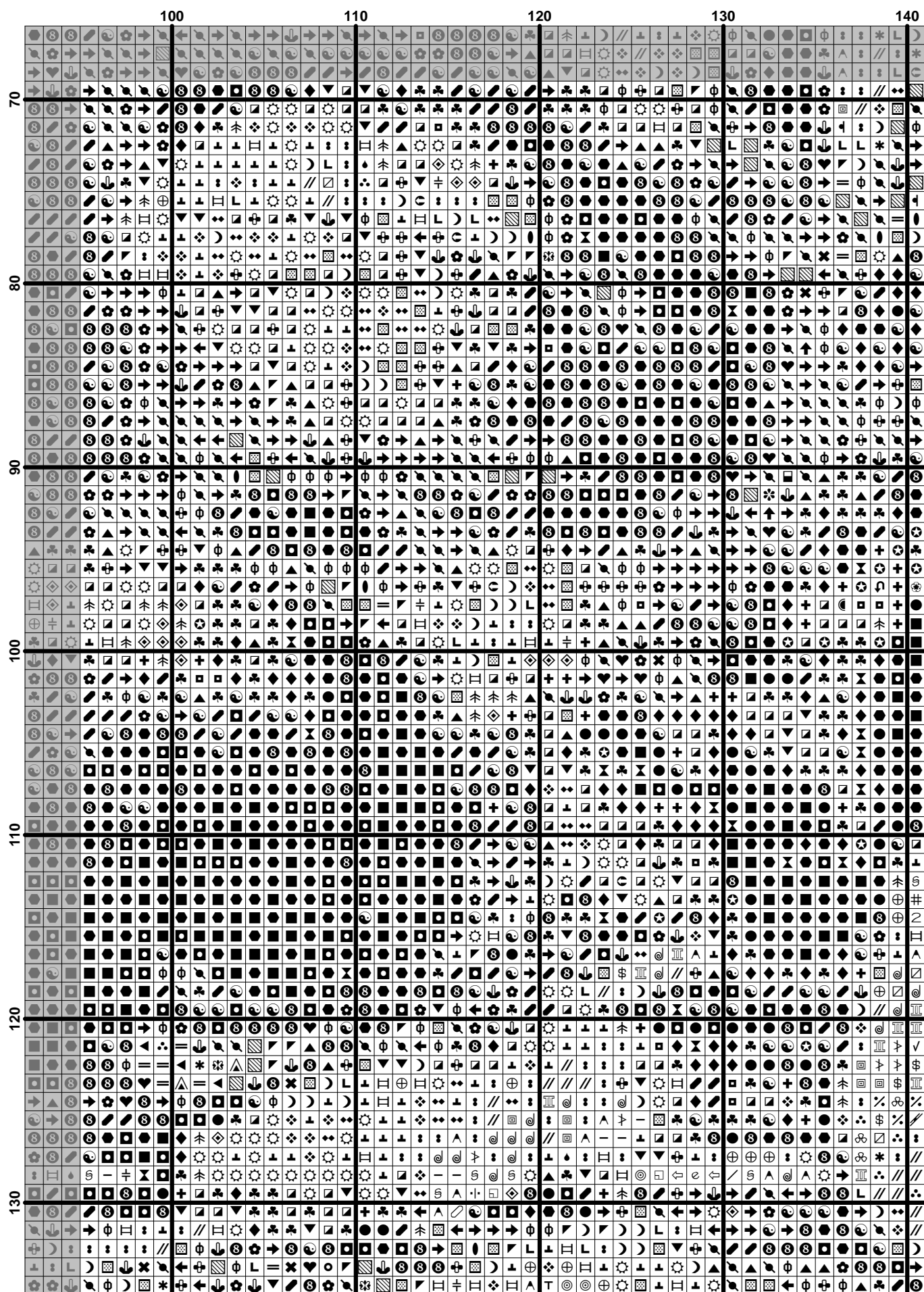


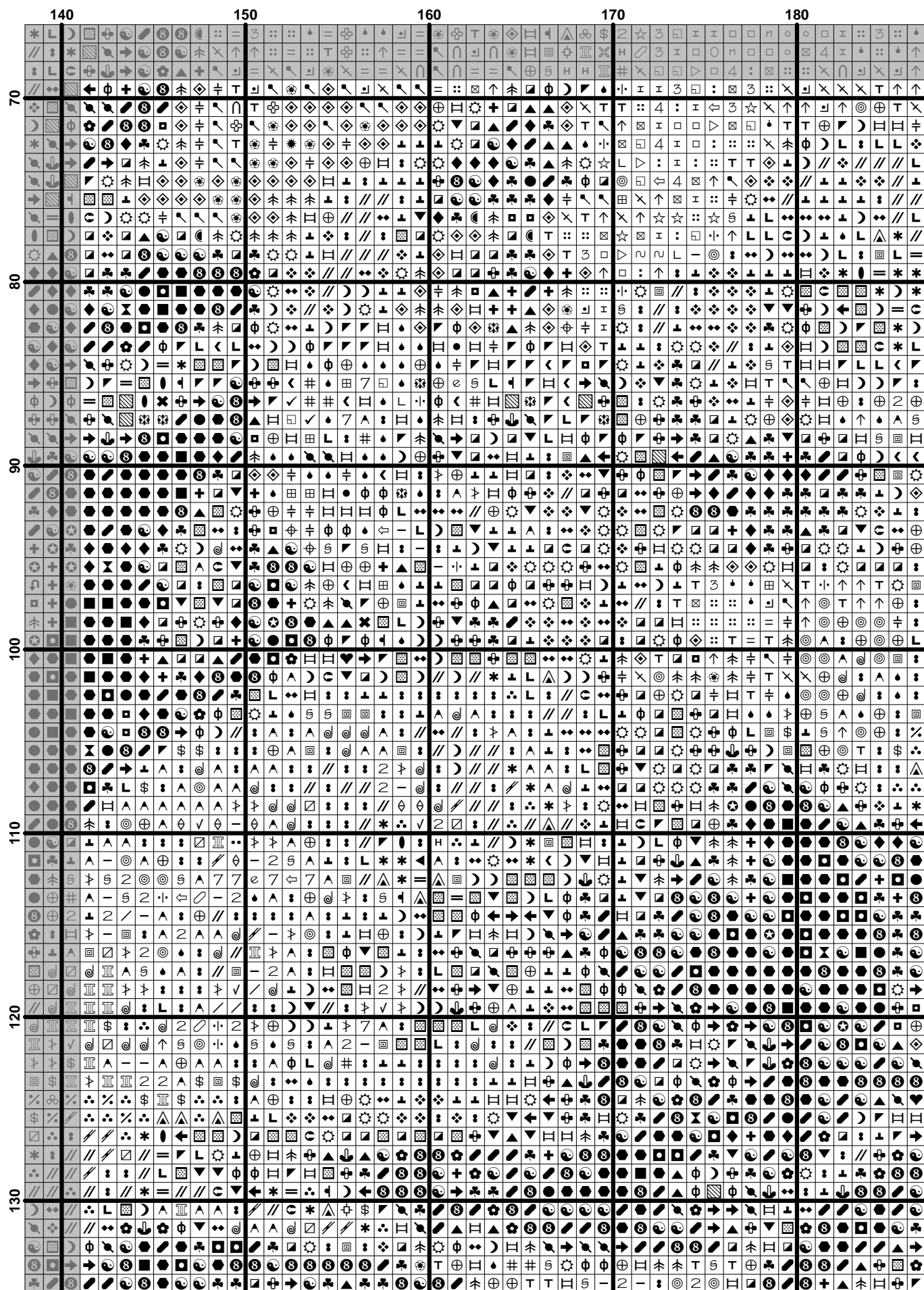


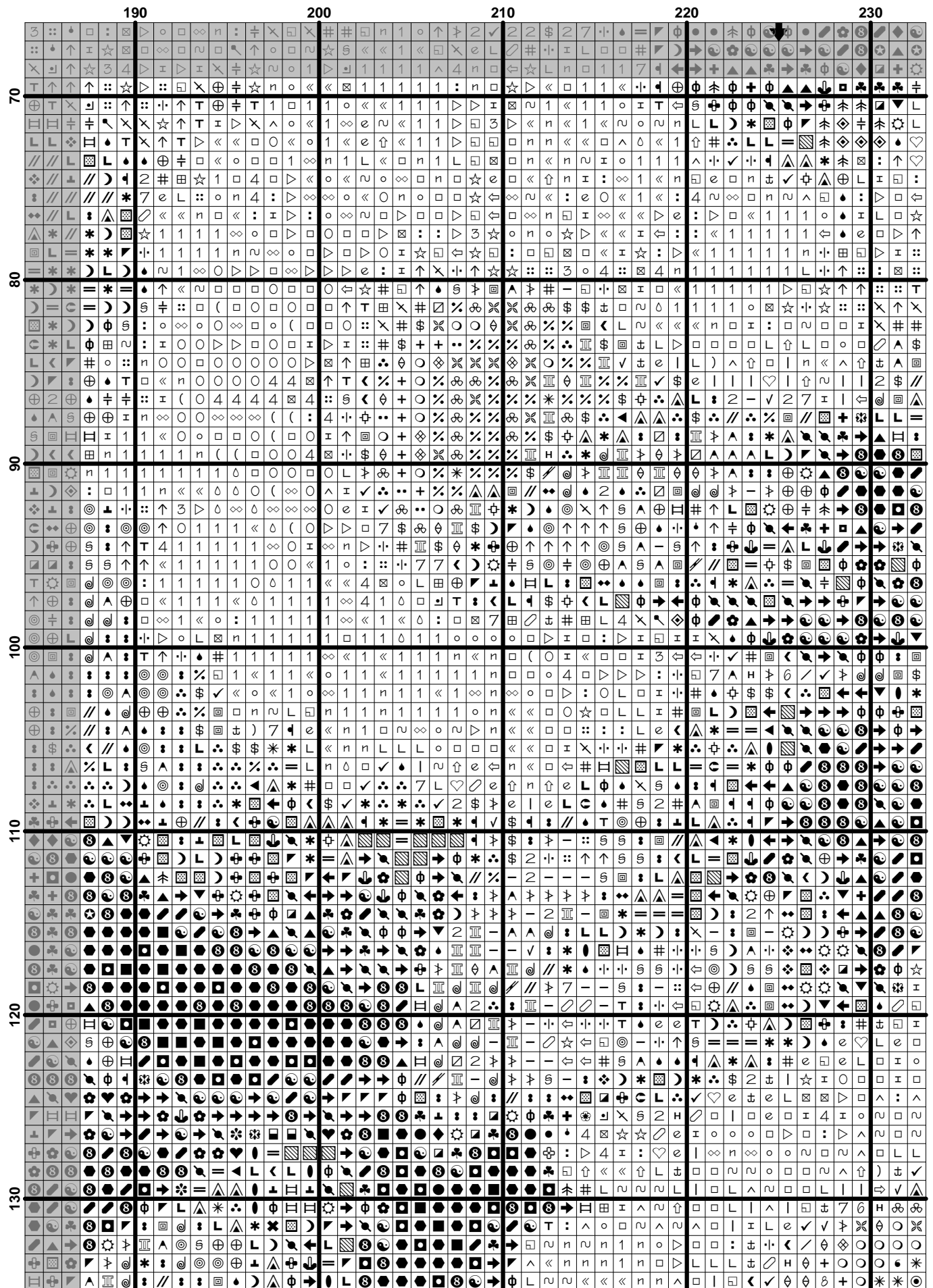










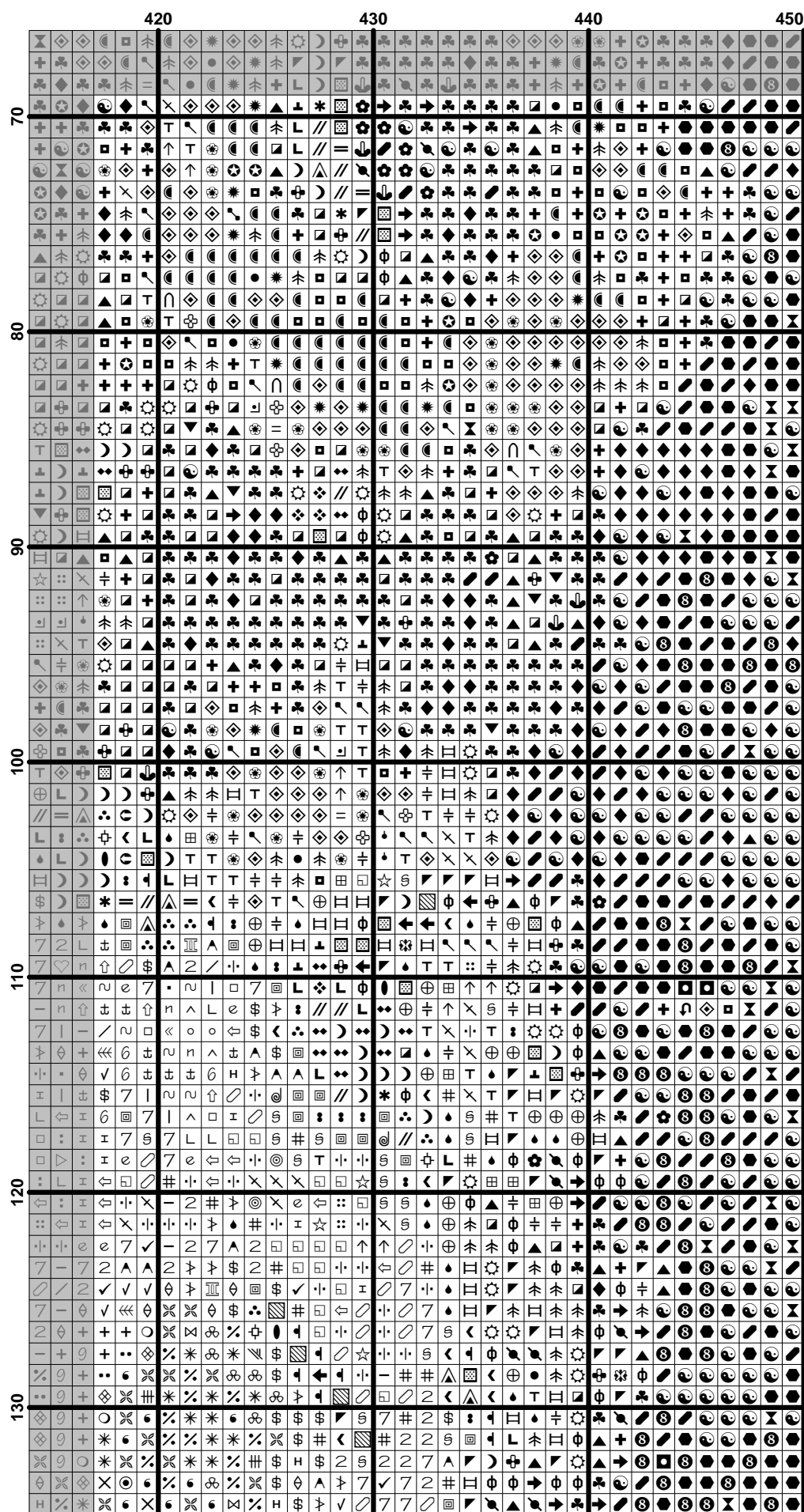


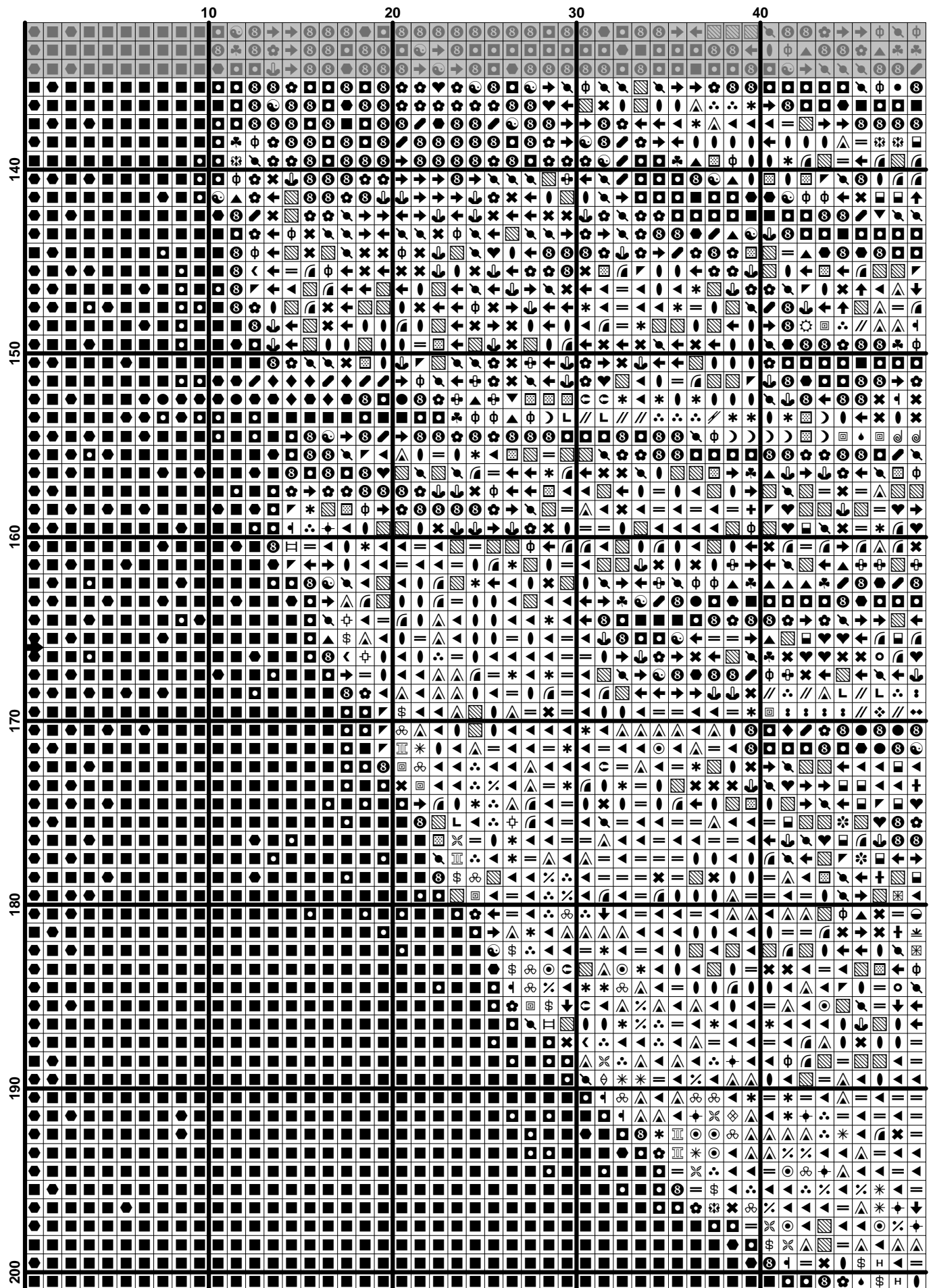
$$(26) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (27)$$

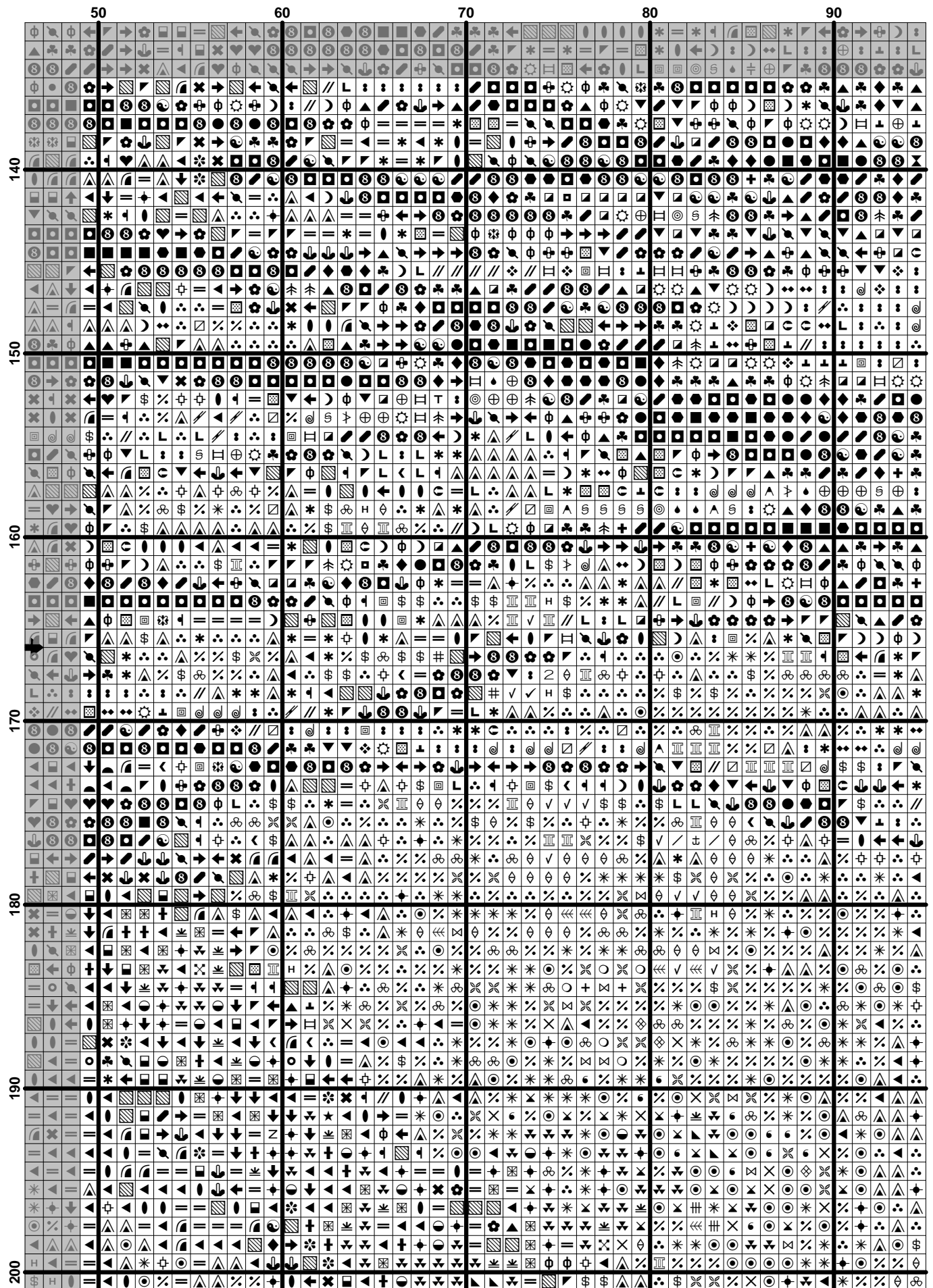
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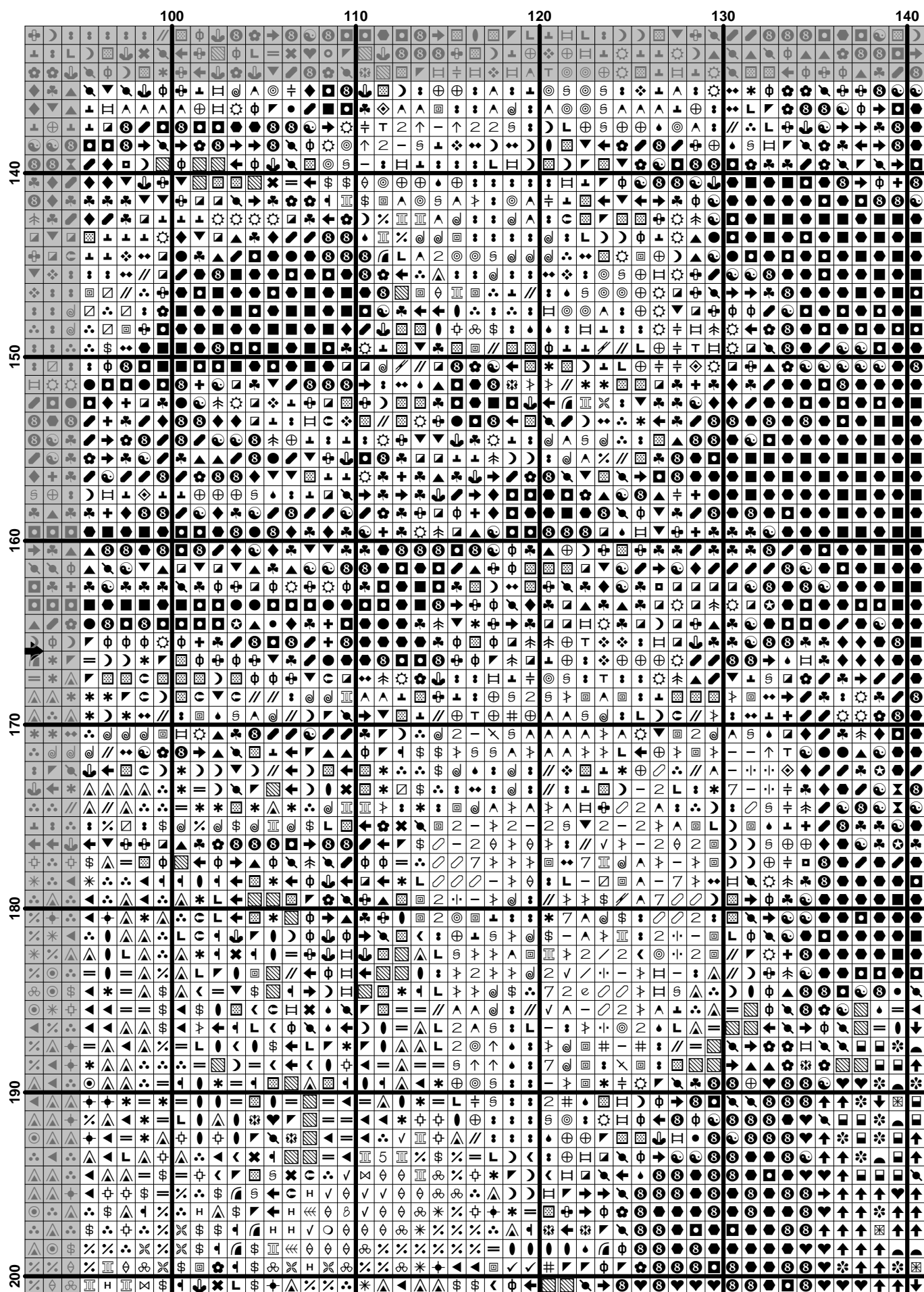
$$(28) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (29)$$

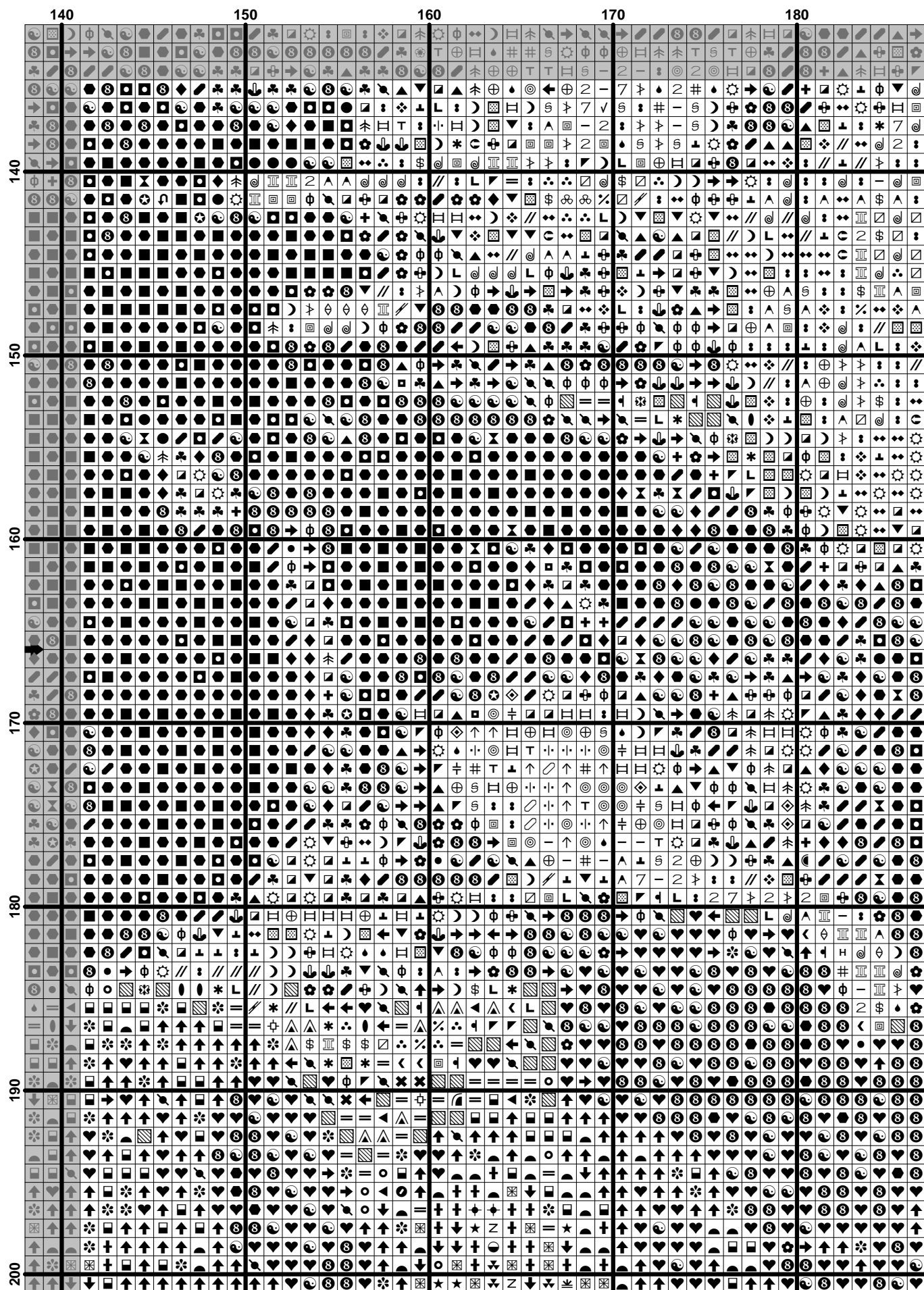
$$(29) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (30)$$



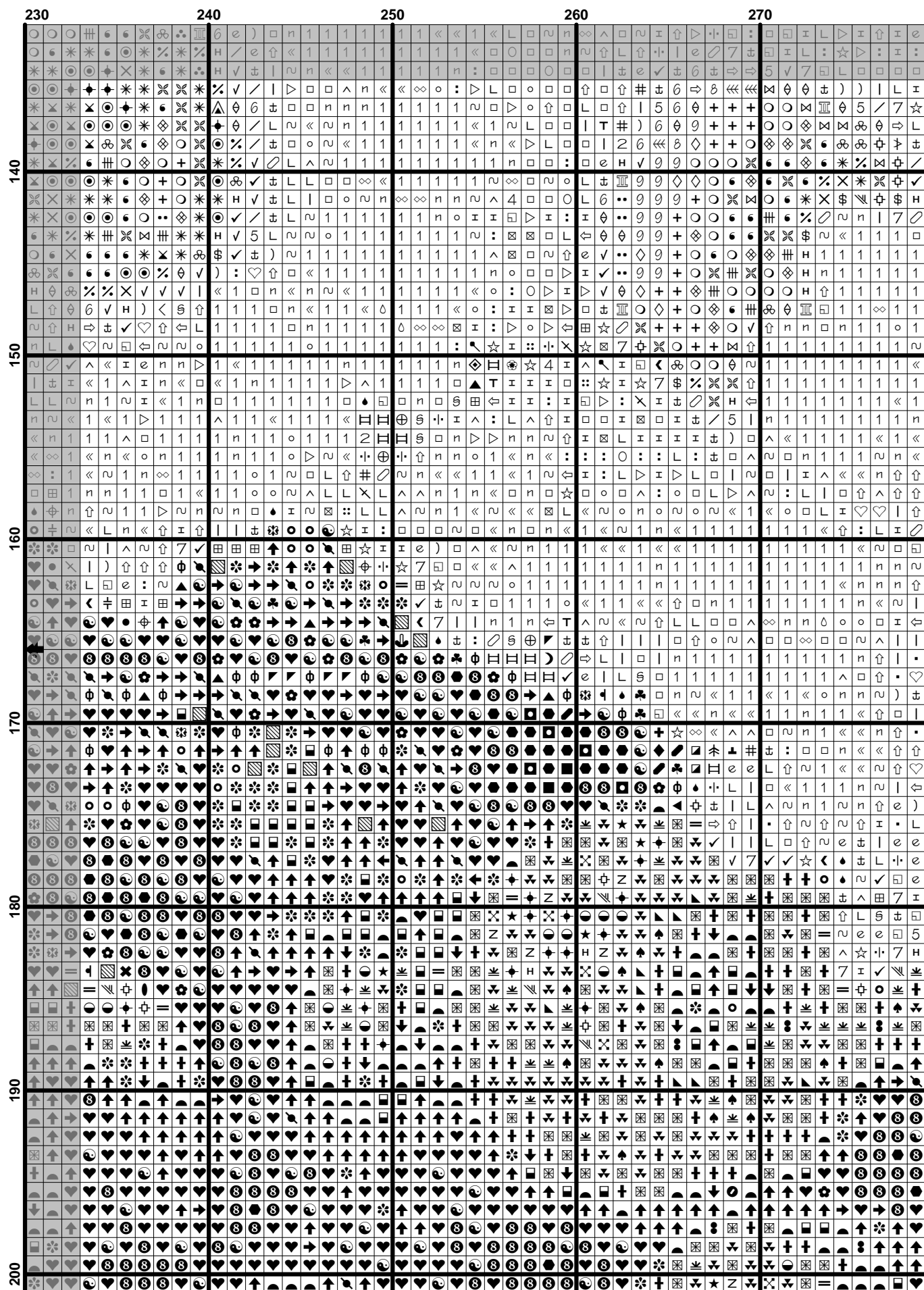




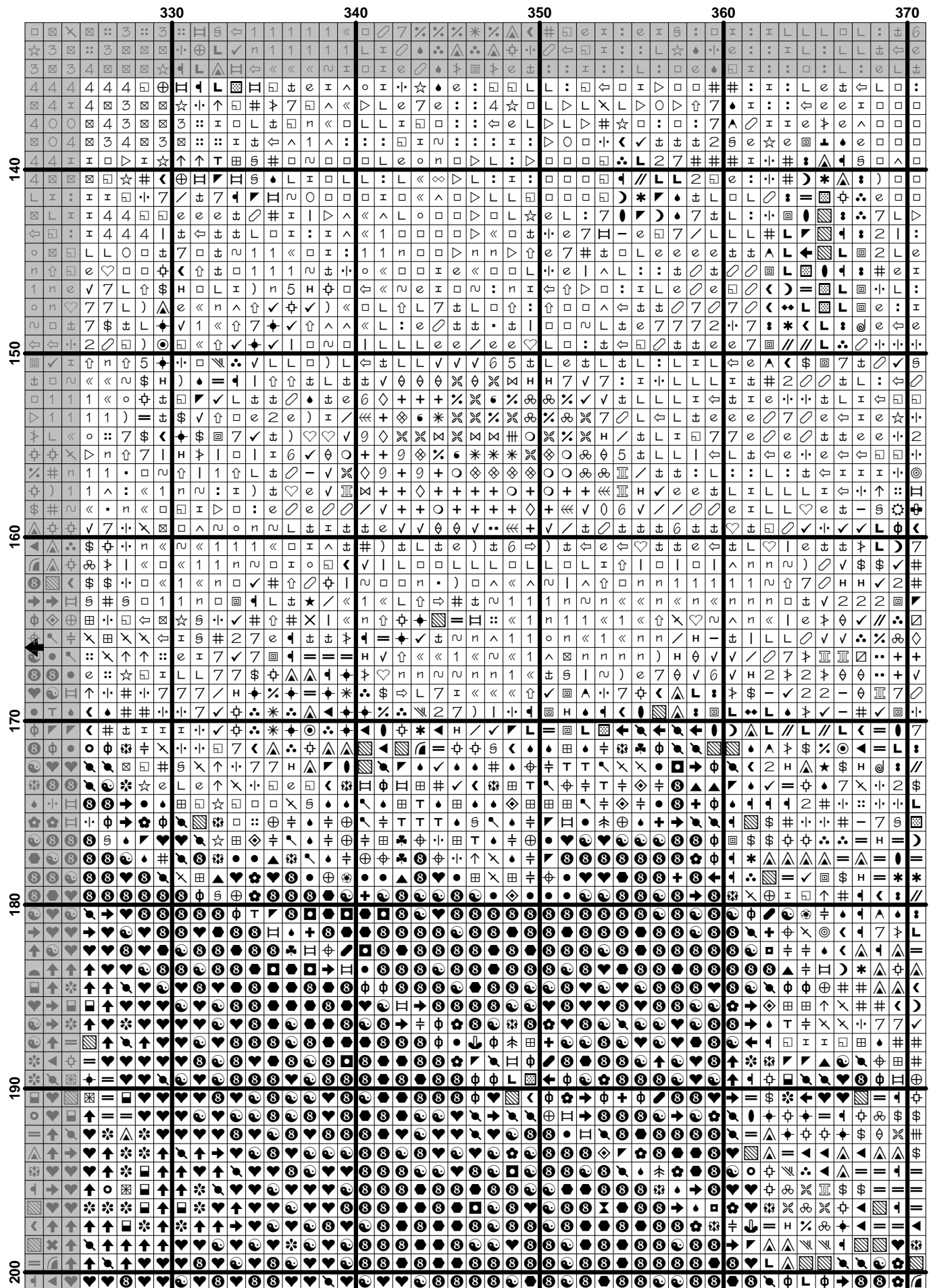




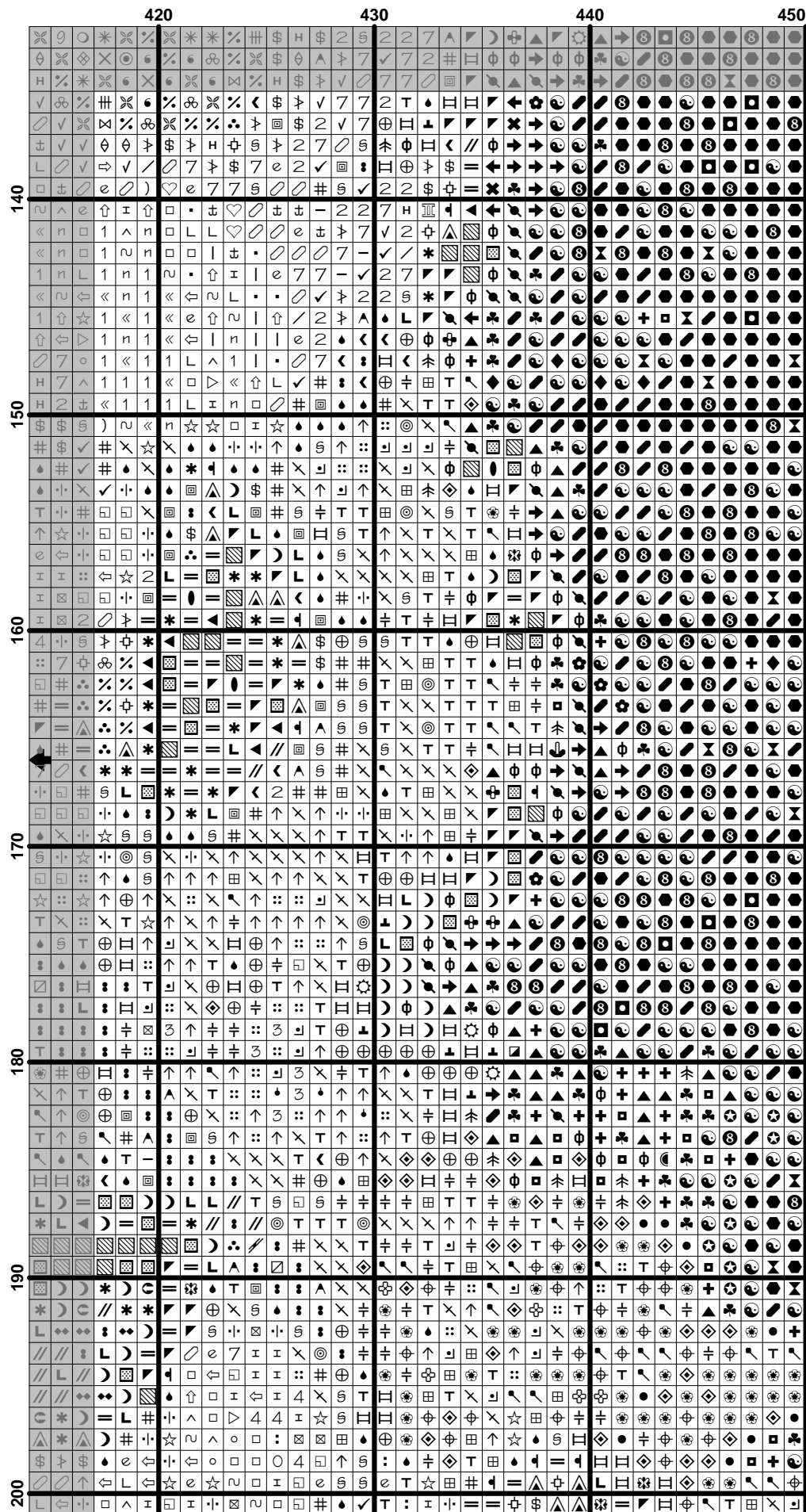
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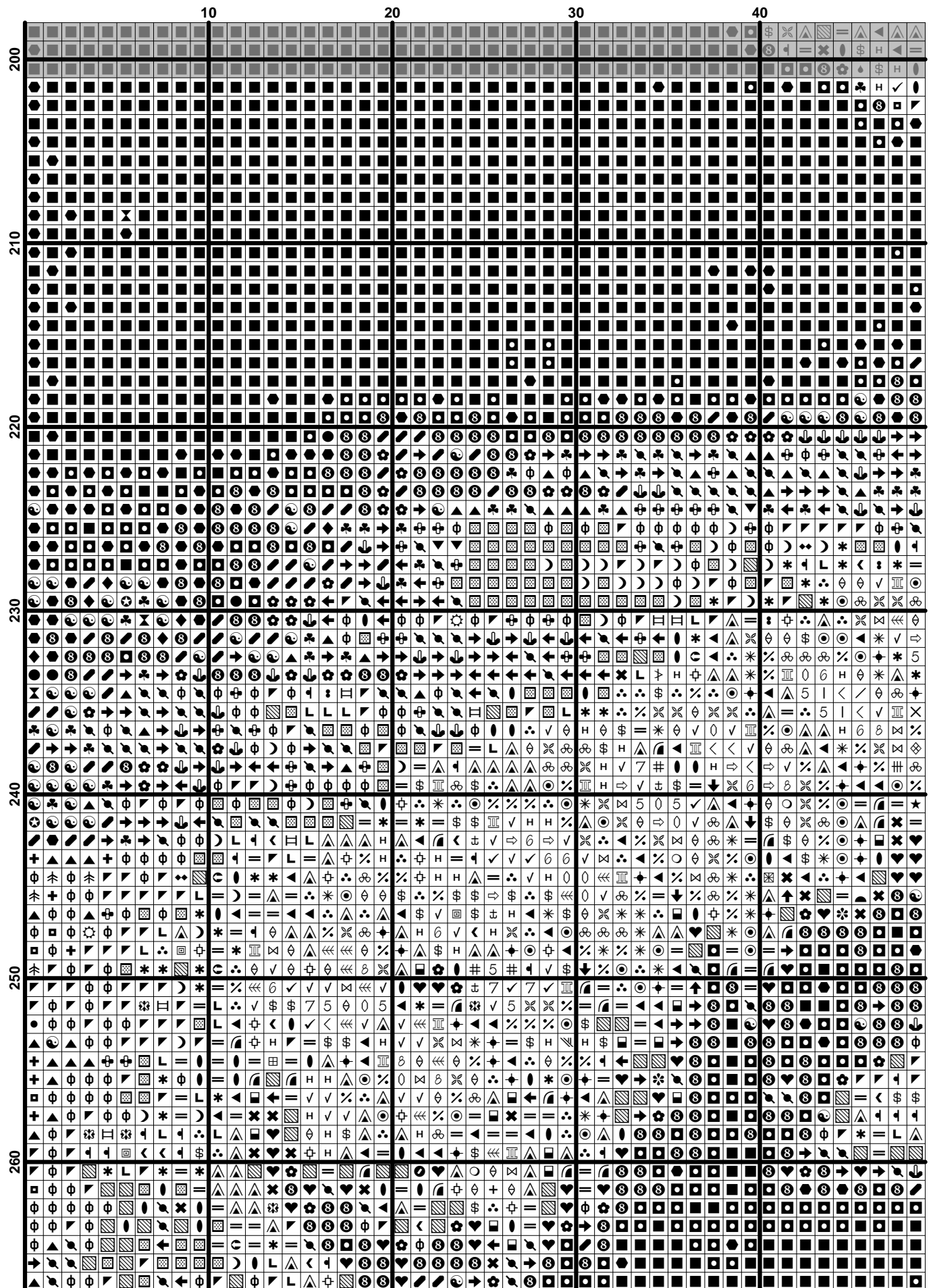


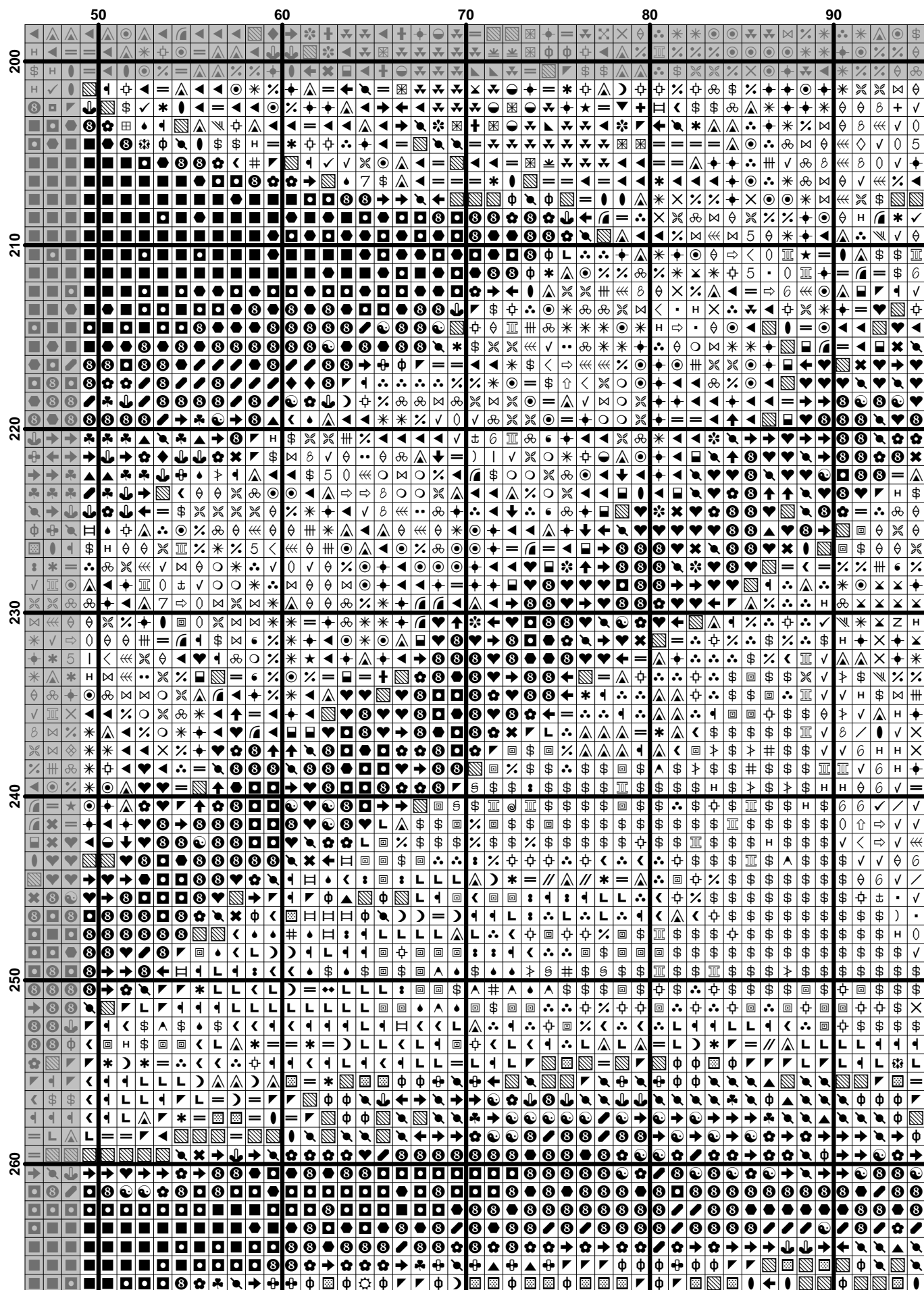
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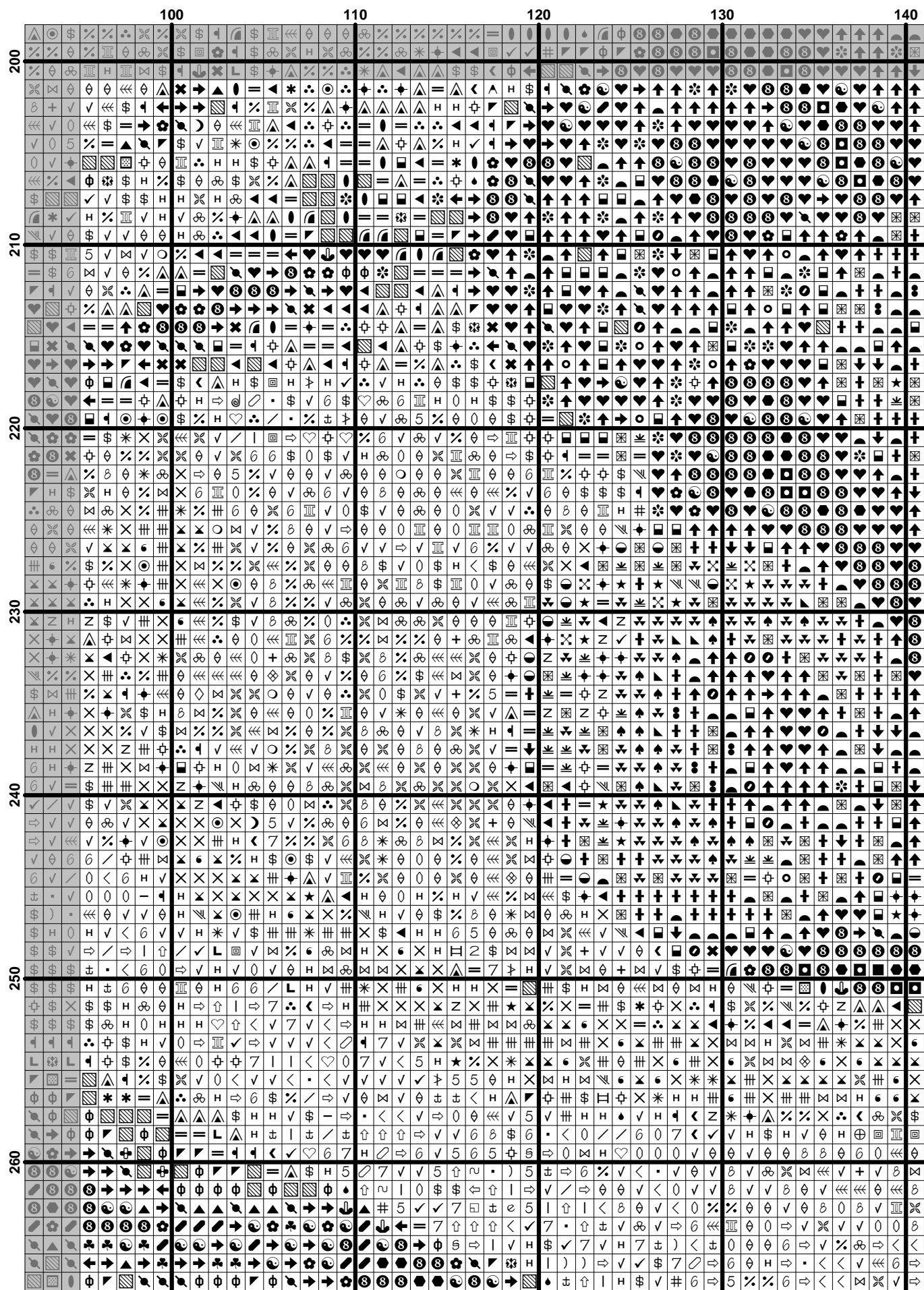


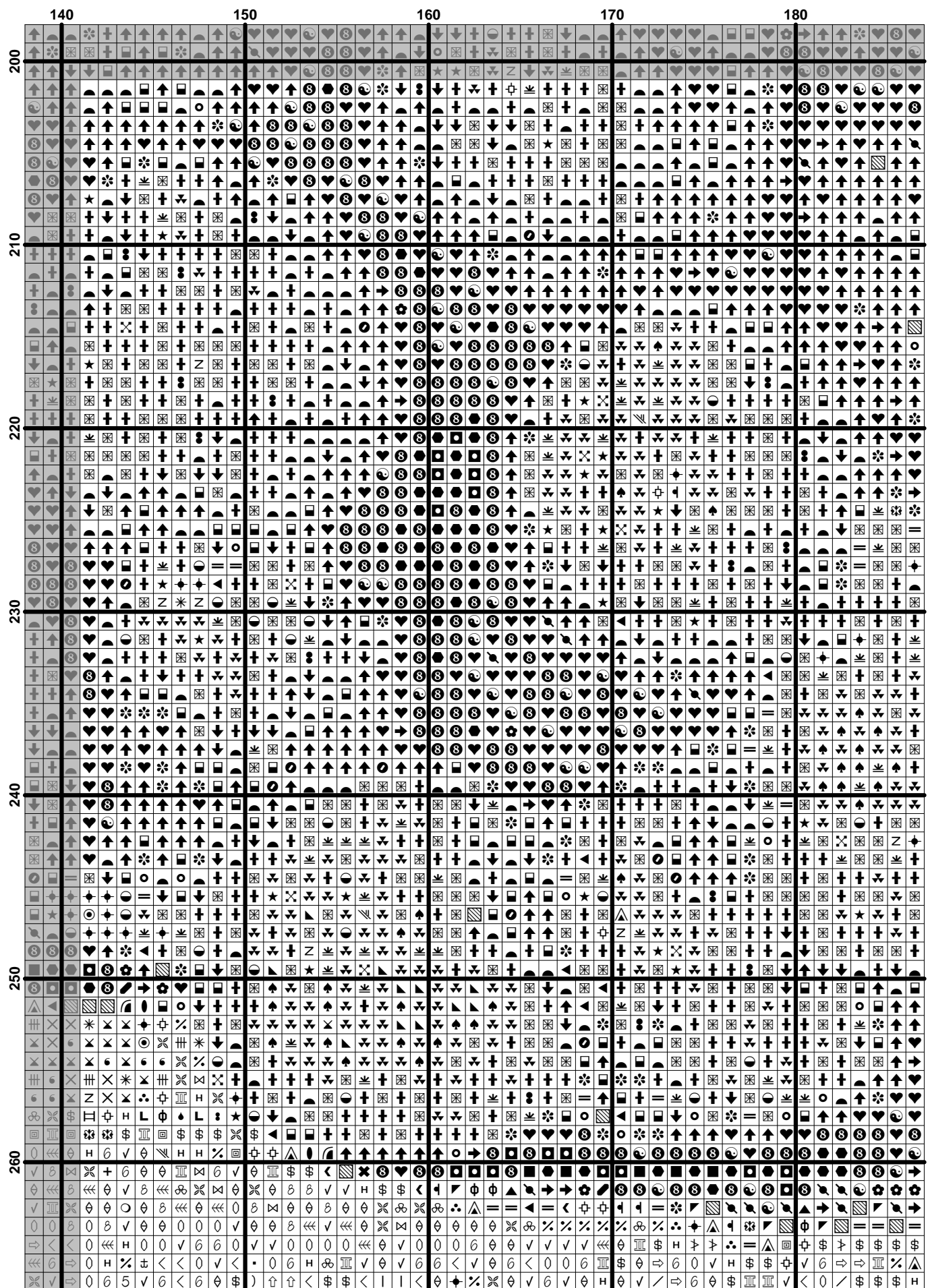
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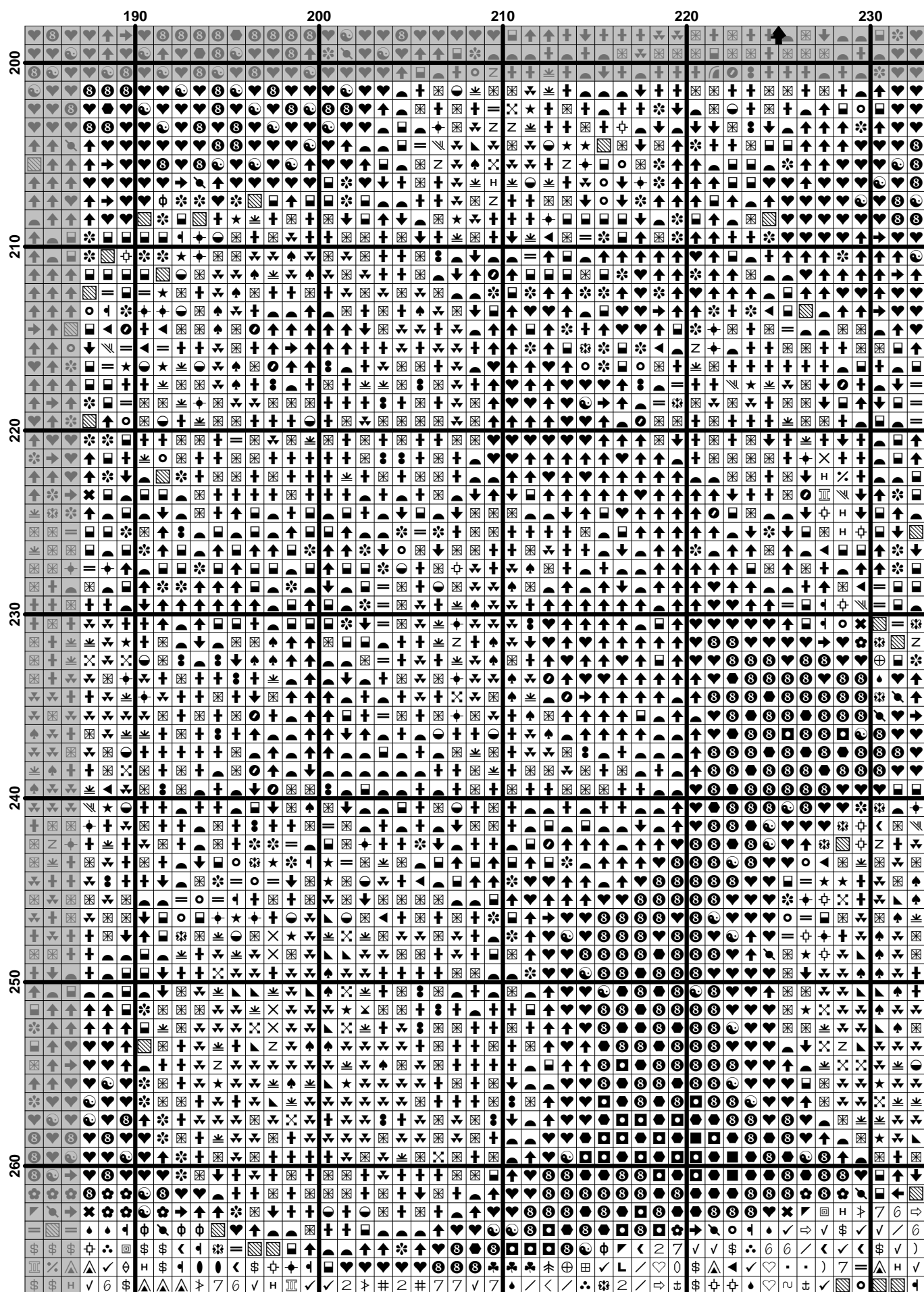


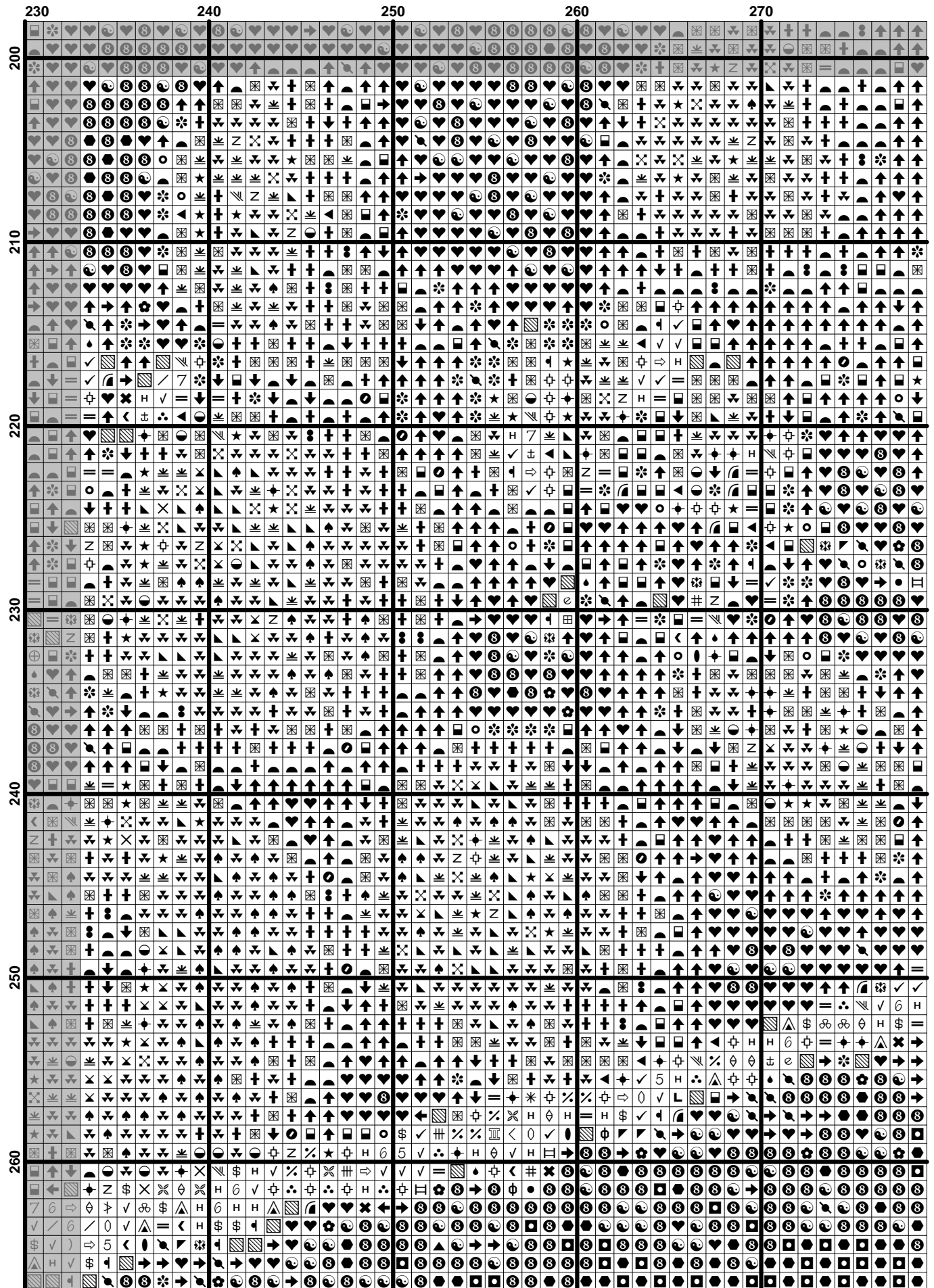


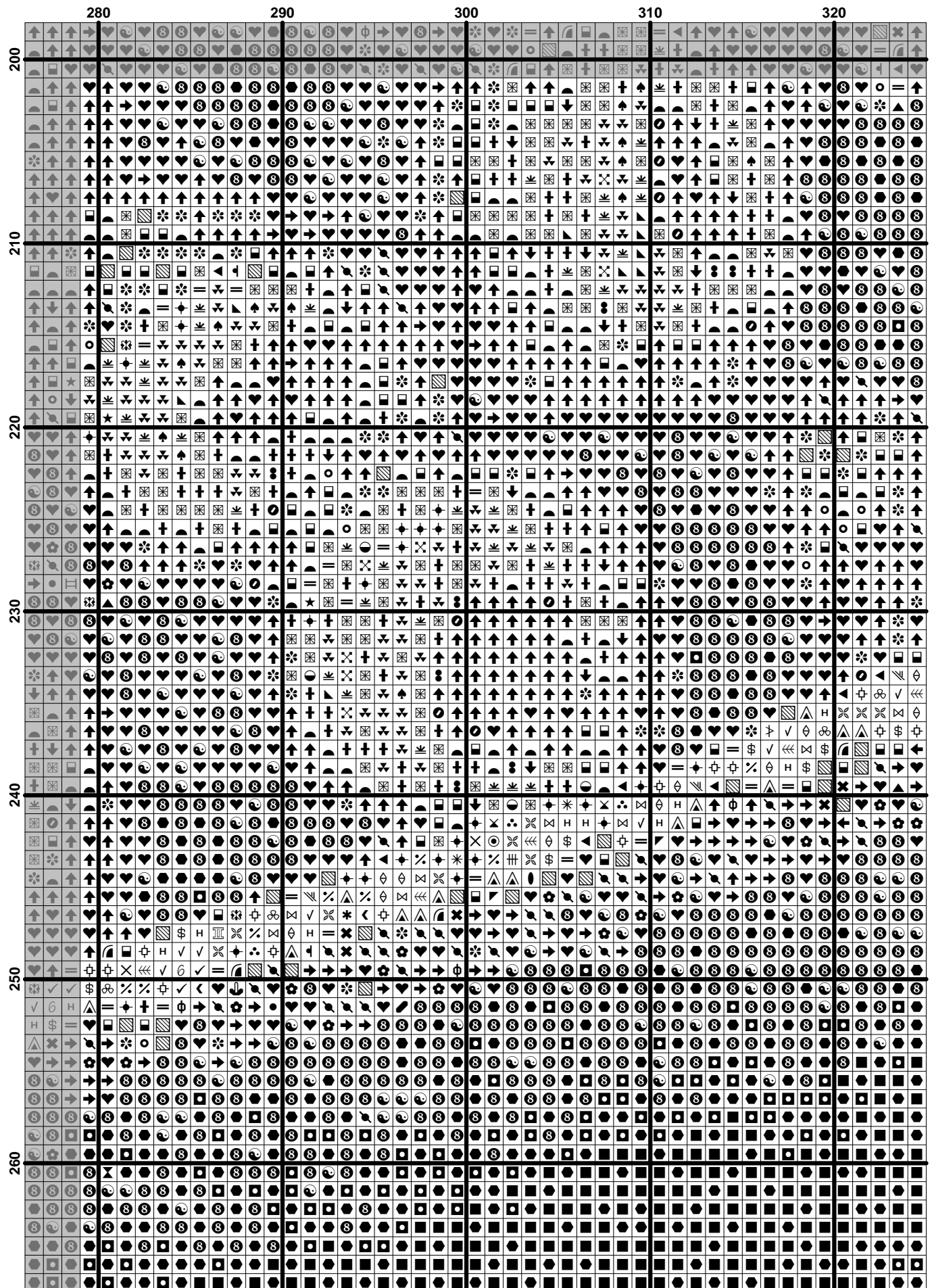


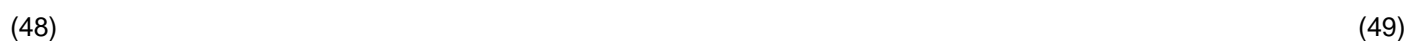


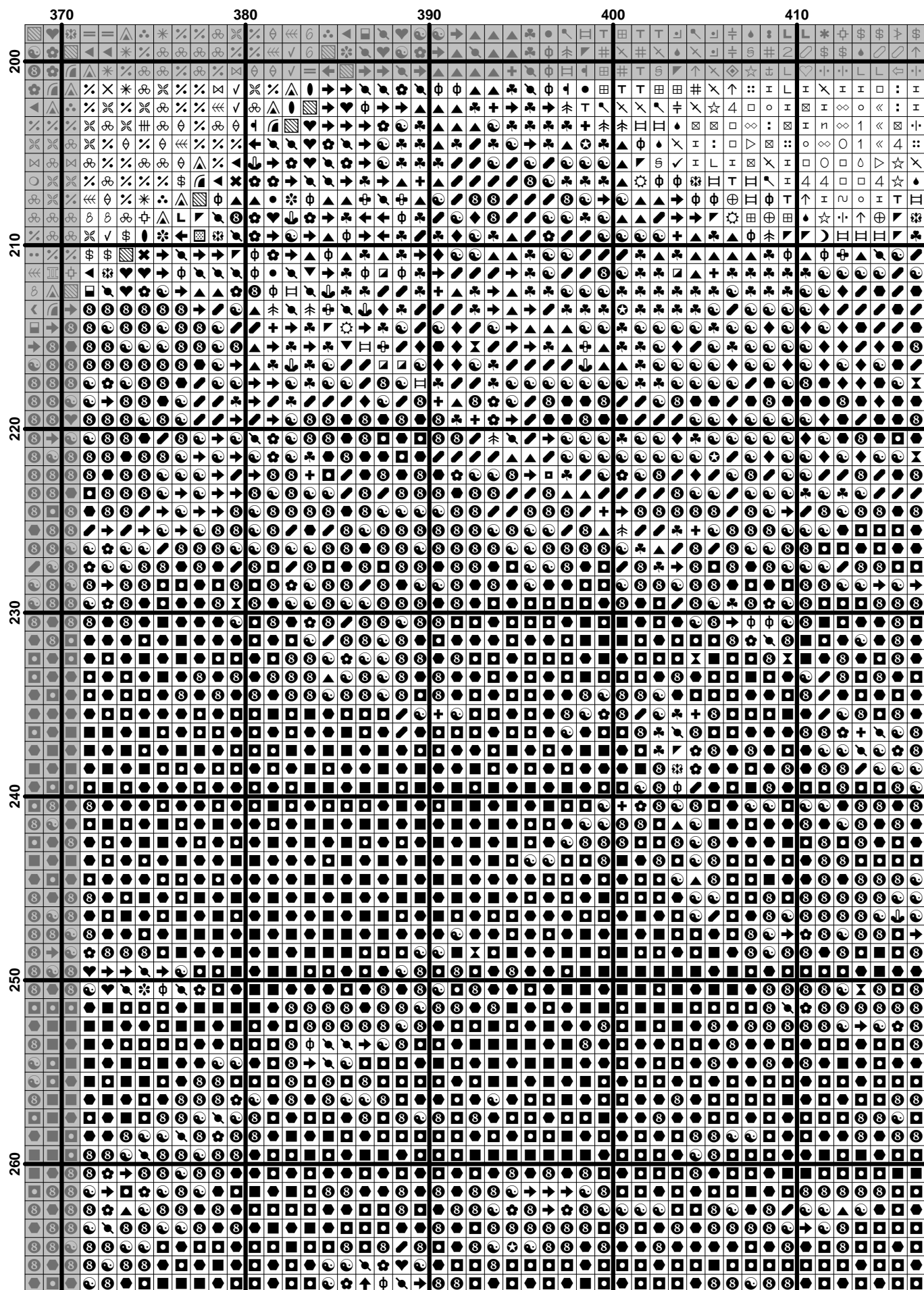




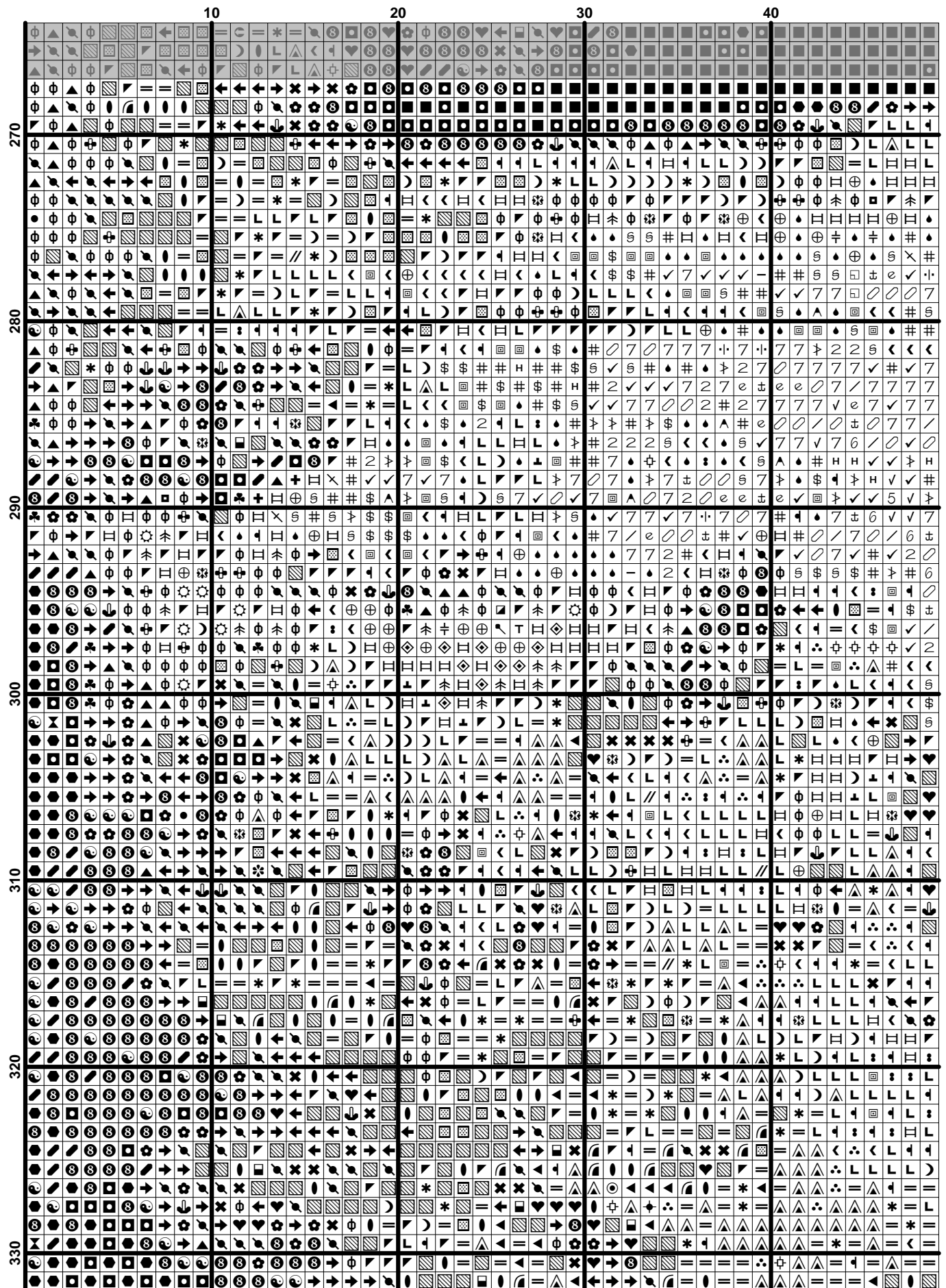


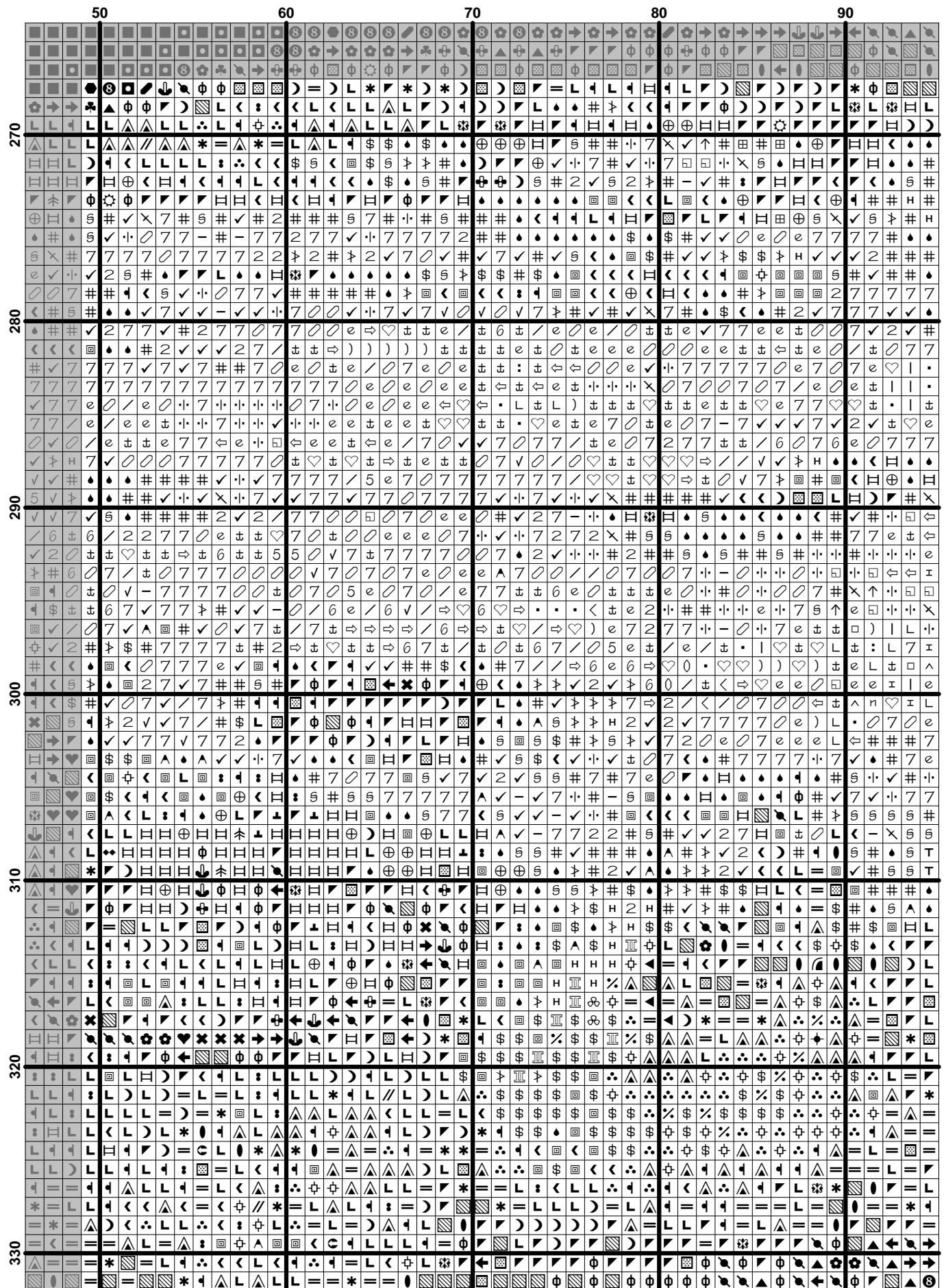












[illegible]

