

2466 In the Workshop



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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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In the Workshop

Stitch Count	
Horizontal:	400
Vertical:	288

Recommended Fabric Color
Antique White.

This table tells the size of the pattern (without any margins) and the size of the fabric required to stitch the pattern (including recommended margins). 3 inch margins have been added on each side in the 'Including Margins' row.

The sizes are given for 14, 16 and 18 stitches per inch fabrics.

Make sure to use the 'Including Margins' row when cutting the piece of fabric to be used. Also make sure that 3 inch margins are enough for your stitching technique and add more margin areas if necessary.

	14				16				18			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	73	28.44	53	20.57	64	24.89	46	18	57	22.125	41	16
Including Margins:	89	35	69	27	80	31	62	25	73	29	57	23
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	102	39.81	74	28.79	85	33.18	61	23.99	42	16.59	30	11.99
Including Margins:	118	46	90	35	101	40	77	30	58	23	46	18
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	40	15.92	29	11.51	39	15.31	28	11.07	37	14.74	27	10.66
Including Margins:	56	22	45	18	55	22	44	18	53	21	43	17
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	36	14.22	26	10.28	34	13.27	24	9.59	31	12.44	23	8.99
Including Margins:	52	21	42	17	50	20	40	16	47	19	39	15

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
	300	Mahogany-VY DK
	310	Black
	367	Pistachio Green-DK
	368	Pistachio Green-LT
	369	Pistachio Green-VY LT
	371	Mustard
	372	Mustard-LT
	407	Desert Sand-DK
	413	Pewter Gray-DK
	420	Hazelnut Brown-DK
	433	Brown-MD
	500	Blue Green-VY DK
	501	Blue Green-DK
	502	Blue Green
	503	Blue Green-MD
	520	Fern Green-DK
	522	Fern Green
	523	Fern Green-LT
	524	Fern Green-VY LT
	535	Ash Gray-VY LT
	543	Beige Brown-UL VY LT
	564	Jade-VY LT
	610	Drab Brown-DK
	611	Drab Brown
	612	Drab Brown-LT
	613	Drab Brown-VY LT
	632	Desert Sand-UL VY DK
	640	Beige Gray-VY DK
	642	Beige Gray-DK
	644	Beige Gray-MD
	645	Beaver Gray-VY DK
	646	Beaver Gray-DK
	647	Beaver Gray-MD
	648	Beaver Gray-LT
	677	Old Gold-VY LT
	712	Cream
	730	Olive Green-VY DK
	738	Tan-VY LT
	739	Tan-UL VY LT
	746	Off White
	772	Yellow Green-VY LT
	801	Coffee Brown-DK
	822	Beige Gray-LT
	829	Golden Olive-VY DK
	830	Golden Olive-DK
	833	Golden Olive-LT
	834	Golden Olive-VY LT
	839	Beige Brown-DK
	844	Beaver Brown-UL DK
	924	Gray Green--VY DK
	926	Gray Green-MD
	932	Antique Blue-LT
	934	Black Avocado Green

↓	935	Avocado Green-DK
▶	936	Avocado Green-VY DK
✕	938	Coffee Brown-UL DK
)	955	Nile Green-LT
✱	975	Golden Brown-DK
z	3011	Khaki Green-DK
⊗	3012	Khaki Green-MD
7	3013	Khaki Green-LT
Φ	3021	Brown Gray-VY DK
↘	3022	Brown Gray-MD
⊕	3023	Brown Gray-LT
6	3024	Brown Gray-VY LT
←	3031	Mocha Brown-VY DK
⌒	3032	Mocha Brown-MD
α	3046	Yellow Beige-MD
□	3047	Yellow Beige-LT
✱	3051	Green Gray-DK
⊕	3052	Green Gray-MD
△	3053	Green Gray
↑	3078	Golden Yellow-VY LT
⊕	3346	Hunter Green
3	3348	Yellow Green-LT
✱	3362	Pine Green-DK
↑	3364	Pine Green
●	3371	Black Brown
e	3752	Antique Blue-VY LT
⇒	3753	Antique Blue-UL VY LT
◀	3781	Mocha Brown-DK
⌒	3782	Mocha Brown-LT
L	3787	Brown Gray-DK
◀	3790	Beige Gray-UL DK
☞	3799	Pewter Gray-VY DK
☆	3813	Blue Green-LT
Λ	3816	Celadon Green-MD
∞	3823	Yellow-UL Pale
=	3828	Hazelnut Brown
⊗	3848	Teal Green-MD
III	3849	Teal Green-LT
<	3855	Autumn Gold-LT
▼	3857	Rosewood-DK
⌒	3862	Mocha Beige-DK
τ	3863	Mocha Beige-MD
1	3865	Winter White

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.

Symbol	DMC1	Name1	DMC2	Name2
u	1	White 1	746	Off White
●	310	Black	500	Blue Green-VY DK
◆	310	Black	838	Beige Brown-VY DK
⊗	310	Black	934	Black Avocado Green
Φ	310	Black	935	Avocado Green-DK
⊕	310	Black	3371	Black Brown
⊕	356	Terra Cotta-MD	632	Desert Sand-UL VY DK

△	369	Pistachio Green-VY LT	613	Drab Brown-VY LT
✕	371	Mustard	611	Drab Brown
Н	371	Mustard	3364	Pine Green
᠒	413	Pewter Gray-DK	3815	Celadon Green-DK
?	415	Pearl Gray	932	Antique Blue-LT
↶	415	Pearl Gray	955	Nile Green-LT
⦿	420	Hazelnut Brown-DK	869	Hazelnut Brown-VY DK
⌂	433	Brown-MD	3862	Mocha Beige-DK
×	435	Brown-VY LT	3862	Mocha Beige-DK
0	445	Lemon-LT	3046	Yellow Beige-MD
√	452	Shell Gray-MD	524	Fern Green-VY LT
☺	500	Blue Green-VY DK	3799	Pewter Gray-VY DK
☾	501	Blue Green-DK	535	Ash Gray-VY LT
▀	501	Blue Green-DK	844	Beaver Brown-UL DK
⊕	502	Blue Green	3768	Gray Green-DK
田	503	Blue Green-MD	646	Beaver Gray-DK
..	503	Blue Green-MD	927	Gray Green-LT
+	520	Fern Green-DK	935	Avocado Green-DK
\$	522	Fern Green	645	Beaver Gray-VY DK
□	524	Fern Green-VY LT	564	Jade-VY LT
⊕	610	Drab Brown-DK	611	Drab Brown
✕	610	Drab Brown-DK	839	Beige Brown-DK
٪	610	Drab Brown-DK	3012	Khaki Green-MD
⌘	611	Drab Brown	3012	Khaki Green-MD
➤	611	Drab Brown	3787	Brown Gray-DK
◎	611	Drab Brown	3828	Hazelnut Brown
᠑	612	Drab Brown-LT	640	Beige Gray-VY DK
⋄	612	Drab Brown-LT	3013	Khaki Green-LT
±	613	Drab Brown-VY LT	739	Tan-UL VY LT
⊥	613	Drab Brown-VY LT	772	Yellow Green-VY LT
∴	632	Desert Sand-UL VY DK	3830	Terra Cotta-MD
☾	632	Desert Sand-UL VY DK	3857	Rosewood-DK
Н	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
☑	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
⌘	640	Beige Gray-VY DK	3052	Green Gray-MD
◎	645	Beaver Gray-VY DK	844	Beaver Brown-UL DK
×	647	Beaver Gray-MD	3022	Brown Gray-MD
и	712	Cream	746	Off White
(	712	Cream	762	Pearl Gray-VY LT
•	745	Yellow-LT Pale	3855	Autumn Gold-LT
^	746	Off White	822	Beige Gray-LT
ó	746	Off White	3823	Yellow-UL Pale
☼	801	Coffee Brown-DK	3011	Khaki Green-DK
☑	838	Beige Brown-VY DK	839	Beige Brown-DK
☑	838	Beige Brown-VY DK	938	Coffee Brown-UL DK
↓	838	Beige Brown-VY DK	3371	Black Brown
♣	838	Beige Brown-VY DK	3799	Pewter Gray-VY DK
†	838	Beige Brown-VY DK	3857	Rosewood-DK
▲	839	Beige Brown-DK	938	Coffee Brown-UL DK
♠	839	Beige Brown-DK	3021	Brown Gray-VY DK
⚡	839	Beige Brown-DK	3362	Pine Green-DK
☾	844	Beaver Brown-UL DK	935	Avocado Green-DK
♦	844	Beaver Brown-UL DK	3362	Pine Green-DK
☼	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
☑	898	Coffee Brown-VY DK	936	Avocado Green-VY DK
♣	898	Coffee Brown-VY DK	3031	Mocha Brown-VY DK
☾	898	Coffee Brown-VY DK	3781	Mocha Brown-DK
卅	926	Gray Green-MD	3849	Teal Green-LT
⌵	927	Gray Green-LT	928	Gray Green-VY LT

∨	927	Gray Green-LT	3849	Teal Green-LT
m	932	Antique Blue-LT	3766	Peacock Blue-LT
⦿	934	Black Avocado Green	935	Avocado Green-DK
↑	934	Black Avocado Green	938	Coffee Brown-UL DK
⦿	934	Black Avocado Green	3021	Brown Gray-VY DK
+	935	Avocado Green-DK	936	Avocado Green-VY DK
×	935	Avocado Green-DK	3371	Black Brown
⦿	936	Avocado Green-VY DK	938	Coffee Brown-UL DK
■	937	Avocado Green-MD	3021	Brown Gray-VY DK
♥	938	Coffee Brown-UL DK	3371	Black Brown
:	955	Nile Green-LT	3024	Brown Gray-VY LT
⦿	975	Golden Brown-DK	3857	Rosewood-DK
△	3011	Khaki Green-DK	3781	Mocha Brown-DK
⦿	3011	Khaki Green-DK	3787	Brown Gray-DK
⦿	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
➔	3021	Brown Gray-VY DK	3371	Black Brown
∨	3046	Yellow Beige-MD	3078	Golden Yellow-VY LT
/	3046	Yellow Beige-MD	3827	Golden Brown-Pale
○	3051	Green Gray-DK	3781	Mocha Brown-DK
⦿	3052	Green Gray-MD	3362	Pine Green-DK
○	3078	Golden Yellow-VY LT	3823	Yellow-UL Pale
⦿	3346	Hunter Green	3362	Pine Green-DK
//	3362	Pine Green-DK	3787	Brown Gray-DK
⦿	3752	Antique Blue-VY LT	3753	Antique Blue-UL VY LT
⦿	3772	Desert Sand-VY DK	3858	Rosewood-MD
⦿	3781	Mocha Brown-DK	3787	Brown Gray-DK
⦿	3781	Mocha Brown-DK	3790	Beige Gray-UL 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	13	5	12	4	11	4
300	Mahogany-VY DK	9	3	9	3	8	3
310	Black	4502	1772	4288	1688	3859	1519
356	Terra Cotta-MD	2	1	2	1	2	1
367	Pistachio Green-DK	16	6	15	5	14	5
368	Pistachio Green-LT	50	19	48	18	43	16
369	Pistachio Green-VY LT	83	32	79	31	71	27
371	Mustard	102	40	97	38	87	34
372	Mustard-LT	39	15	37	14	33	12
407	Desert Sand-DK	5	1	5	1	4	1
413	Pewter Gray-DK	34	13	32	12	29	11
415	Pearl Gray	21	8	20	7	18	7
420	Hazelnut Brown-DK	21	8	20	7	18	7
433	Brown-MD	42	16	40	15	36	14
435	Brown-VY LT	6	2	6	2	6	2
445	Lemon-LT	8	3	8	3	7	2
452	Shell Gray-MD	4	1	4	1	3	1
500	Blue Green-VY DK	290	114	276	108	248	97
501	Blue Green-DK	71	27	68	26	61	24
502	Blue Green	67	26	64	25	58	22
503	Blue Green-MD	83	32	79	31	71	27
520	Fern Green-DK	88	34	83	32	75	29
522	Fern Green	176	69	168	66	151	59
523	Fern Green-LT	122	48	117	46	105	41
524	Fern Green-VY LT	190	74	181	71	163	64
535	Ash Gray-VY LT	47	18	45	17	41	16
543	Beige Brown-UL VY LT	17	6	16	6	15	5
564	Jade-VY LT	63	24	60	23	54	21
610	Drab Brown-DK	174	68	166	65	149	58
611	Drab Brown	271	106	259	101	233	91
612	Drab Brown-LT	98	38	93	36	84	33
613	Drab Brown-VY LT	289	113	275	108	248	97
632	Desert Sand-UL VY DK	38	14	36	14	32	12
640	Beige Gray-VY DK	277	109	264	103	237	93
642	Beige Gray-DK	53	20	51	20	46	18
644	Beige Gray-MD	87	34	82	32	74	29
645	Beaver Gray-VY DK	328	129	312	122	281	110
646	Beaver Gray-DK	82	32	78	30	70	27
647	Beaver Gray-MD	88	34	84	33	76	29
648	Beaver Gray-LT	44	17	42	16	38	14
677	Old Gold-VY LT	47	18	45	17	40	15
712	Cream	38	14	36	14	32	12
730	Olive Green-VY DK	23	9	21	8	19	7
738	Tan-VY LT	93	36	88	34	79	31
739	Tan-UL VY LT	72	28	69	27	62	24
745	Yellow-LT Pale	3	1	3	1	3	1
746	Off White	223	87	212	83	191	75
762	Pearl Gray-VY LT	8	3	8	3	7	2
772	Yellow Green-VY LT	181	71	172	67	155	61
801	Coffee Brown-DK	100	39	95	37	85	33
822	Beige Gray-LT	93	36	88	34	79	31
829	Golden Olive-VY DK	53	20	50	19	45	17
830	Golden Olive-DK	37	14	35	13	31	12

833	Golden Olive-LT	10	3	9	3	8	3
834	Golden Olive-VY LT	15	5	14	5	13	5
838	Beige Brown-VY DK	438	172	417	164	376	148
839	Beige Brown-DK	404	159	385	151	346	136
844	Beaver Brown-UL DK	606	238	577	227	519	204
869	Hazelnut Brown-VY DK	12	4	11	4	10	3
898	Coffee Brown-VY DK	515	202	491	193	442	174
924	Gray Green--VY DK	19	7	18	7	16	6
926	Gray Green-MD	43	16	41	16	37	14
927	Gray Green-LT	38	14	36	14	32	12
928	Gray Green-VY LT	7	2	6	2	6	2
932	Antique Blue-LT	42	16	40	15	36	14
934	Black Avocado Green	2354	926	2242	882	2018	794
935	Avocado Green-DK	1282	504	1221	480	1099	432
936	Avocado Green-VY DK	720	283	686	270	617	242
937	Avocado Green-MD	158	62	150	59	135	53
938	Coffee Brown-UL DK	2672	1051	2545	1001	2291	901
955	Nile Green-LT	37	14	35	13	32	12
975	Golden Brown-DK	14	5	14	5	12	4
3011	Khaki Green-DK	454	178	432	170	389	153
3012	Khaki Green-MD	122	48	116	45	105	41
3013	Khaki Green-LT	111	43	105	41	95	37
3021	Brown Gray-VY DK	2142	843	2040	803	1836	722
3022	Brown Gray-MD	111	43	105	41	95	37
3023	Brown Gray-LT	56	22	53	20	48	18
3024	Brown Gray-VY LT	28	11	27	10	24	9
3031	Mocha Brown-VY DK	985	387	938	369	844	332
3032	Mocha Brown-MD	53	20	50	19	45	17
3046	Yellow Beige-MD	154	60	146	57	132	51
3047	Yellow Beige-LT	137	53	130	51	117	46
3051	Green Gray-DK	377	148	359	141	323	127
3052	Green Gray-MD	379	149	361	142	325	127
3053	Green Gray	136	53	130	51	117	46
3078	Golden Yellow-VY LT	84	33	80	31	72	28
3346	Hunter Green	19	7	19	7	17	6
3348	Yellow Green-LT	145	57	138	54	124	48
3362	Pine Green-DK	665	261	634	249	570	224
3364	Pine Green	107	42	102	40	91	35
3371	Black Brown	5582	2197	5316	2092	4784	1883
3752	Antique Blue-VY LT	28	11	27	10	24	9
3753	Antique Blue-UL VY LT	16	6	15	5	14	5
3766	Peacock Blue-LT	9	3	9	3	8	3
3768	Gray Green-DK	22	8	21	8	19	7
3772	Desert Sand-VY DK	3	1	3	1	3	1
3781	Mocha Brown-DK	729	287	694	273	625	246
3782	Mocha Brown-LT	53	20	50	19	45	17
3787	Brown Gray-DK	717	282	683	268	615	242
3790	Beige Gray-UL DK	74	29	70	27	63	24
3799	Pewter Gray-VY DK	274	107	261	102	235	92
3813	Blue Green-LT	39	15	37	14	34	13
3815	Celadon Green-DK	27	10	26	10	24	9
3816	Celadon Green-MD	30	11	28	11	26	10
3823	Yellow-UL Pale	138	54	131	51	118	46
3827	Golden Brown-Pale	5	1	5	1	4	1
3828	Hazelnut Brown	22	8	21	8	19	7
3830	Terra Cotta-MD	4	1	4	1	4	1
3848	Teal Green-MD	8	3	7	2	7	2
3849	Teal Green-LT	32	12	30	11	27	10
3855	Autumn Gold-LT	6	2	6	2	5	1

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3857	Rosewood-DK	43	16	41	16	37	14
3858	Rosewood-MD	3	1	3	1	3	1
3862	Mocha Beige-DK	64	25	61	24	55	21
3863	Mocha Beige-MD	20	7	19	7	17	6
3865	Winter White	6	2	5	1	5	1

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	20	7	17	6	8	3
300	Mahogany-VY DK	14	5	12	5	6	2
310	Black	6946	2734	5789	2279	2894	1139
356	Terra Cotta-MD	4	2	3	2	2	1
367	Pistachio Green-DK	25	9	21	8	11	4
368	Pistachio Green-LT	77	29	65	24	32	12
369	Pistachio Green-VY LT	128	49	107	41	53	20
371	Mustard	157	61	131	51	65	26
372	Mustard-LT	59	22	50	18	25	9
407	Desert Sand-DK	7	2	6	2	3	1
413	Pewter Gray-DK	52	20	44	17	22	8
415	Pearl Gray	32	13	27	11	14	5
420	Hazelnut Brown-DK	32	13	27	11	14	5
433	Brown-MD	65	25	54	21	27	11
435	Brown-VY LT	11	4	9	3	5	2
445	Lemon-LT	13	4	11	3	5	2
452	Shell Gray-MD	5	2	5	2	2	1
500	Blue Green-VY DK	446	175	372	146	186	73
501	Blue Green-DK	110	43	92	36	46	18
502	Blue Green	104	40	87	33	44	17
503	Blue Green-MD	128	49	107	41	53	20
520	Fern Green-DK	135	52	113	44	56	22
522	Fern Green	272	106	227	89	113	44
523	Fern Green-LT	189	74	158	62	79	31
524	Fern Green-VY LT	293	115	245	96	122	48
535	Ash Gray-VY LT	74	29	62	24	31	12
543	Beige Brown-UL VY LT	27	9	23	8	11	4
564	Jade-VY LT	97	38	81	32	41	16
610	Drab Brown-DK	268	104	224	87	112	44
611	Drab Brown	419	164	350	137	175	68
612	Drab Brown-LT	151	59	126	50	63	25
613	Drab Brown-VY LT	446	175	372	146	186	73
632	Desert Sand-UL VY DK	58	22	48	18	24	9
640	Beige Gray-VY DK	427	167	356	140	178	70
642	Beige Gray-DK	83	32	69	27	35	14
644	Beige Gray-MD	133	52	111	44	56	22
645	Beaver Gray-VY DK	506	198	422	165	211	83
646	Beaver Gray-DK	126	49	105	41	53	20
647	Beaver Gray-MD	137	52	114	44	57	22
648	Beaver Gray-LT	68	25	57	21	29	11
677	Old Gold-VY LT	72	27	60	23	30	11
712	Cream	58	22	48	18	24	9
730	Olive Green-VY DK	34	13	29	11	14	5
738	Tan-VY LT	142	56	119	47	59	23
739	Tan-UL VY LT	112	43	93	36	47	18
745	Yellow-LT Pale	5	2	5	2	2	1
746	Off White	344	135	287	113	143	56

762	Pearl Gray-VY LT	13	4	11	3	5	2
772	Yellow Green-VY LT	279	110	233	92	116	46
801	Coffee Brown-DK	153	59	128	50	64	25
822	Beige Gray-LT	142	56	119	47	59	23
829	Golden Olive-VY DK	81	31	68	26	34	13
830	Golden Olive-DK	56	22	47	18	23	9
833	Golden Olive-LT	14	5	12	5	6	2
834	Golden Olive-VY LT	23	9	20	8	10	4
838	Beige Brown-VY DK	677	266	564	222	282	111
839	Beige Brown-DK	623	245	519	204	260	102
844	Beaver Brown-UL DK	934	367	779	306	389	153
869	Hazelnut Brown-VY DK	18	5	15	5	8	2
898	Coffee Brown-VY DK	796	313	663	261	332	131
924	Gray Green--VY DK	29	11	24	9	12	5
926	Gray Green-MD	67	25	56	21	28	11
927	Gray Green-LT	58	22	48	18	24	9
928	Gray Green-VY LT	11	4	9	3	5	2
932	Antique Blue-LT	65	25	54	21	27	11
934	Black Avocado Green	3632	1429	3027	1191	1514	596
935	Avocado Green-DK	1978	778	1649	648	824	324
936	Avocado Green-VY DK	1111	436	926	363	463	182
937	Avocado Green-MD	243	95	203	80	101	40
938	Coffee Brown-UL DK	4124	1622	3437	1352	1718	676
955	Nile Green-LT	58	22	48	18	24	9
975	Golden Brown-DK	22	7	18	6	9	3
3011	Khaki Green-DK	700	275	584	230	292	115
3012	Khaki Green-MD	189	74	158	62	79	31
3013	Khaki Green-LT	171	67	143	56	71	28
3021	Brown Gray-VY DK	3305	1300	2754	1083	1377	542
3022	Brown Gray-MD	171	67	143	56	71	28
3023	Brown Gray-LT	86	32	72	27	36	14
3024	Brown Gray-VY LT	43	16	36	14	18	7
3031	Mocha Brown-VY DK	1519	598	1266	498	633	249
3032	Mocha Brown-MD	81	31	68	26	34	13
3046	Yellow Beige-MD	238	92	198	77	99	38
3047	Yellow Beige-LT	211	83	176	69	88	35
3051	Green Gray-DK	581	229	485	191	242	95
3052	Green Gray-MD	585	229	488	191	244	95
3053	Green Gray	211	83	176	69	88	35
3078	Golden Yellow-VY LT	130	50	108	42	54	21
3346	Hunter Green	31	11	26	9	13	5
3348	Yellow Green-LT	223	86	186	72	93	36
3362	Pine Green-DK	1026	403	855	336	428	168
3364	Pine Green	164	63	137	53	68	26
3371	Black Brown	8611	3389	7176	2825	3588	1412
3752	Antique Blue-VY LT	43	16	36	14	18	7
3753	Antique Blue-UL VY LT	25	9	21	8	11	4
3766	Peacock Blue-LT	14	5	12	5	6	2
3768	Gray Green-DK	34	13	29	11	14	5
3772	Desert Sand-VY DK	5	2	5	2	2	1
3781	Mocha Brown-DK	1125	443	938	369	469	185
3782	Mocha Brown-LT	81	31	68	26	34	13
3787	Brown Gray-DK	1107	436	923	363	461	182
3790	Beige Gray-UL DK	113	43	95	36	47	18
3799	Pewter Gray-VY DK	423	166	353	138	176	69
3813	Blue Green-LT	61	23	51	20	26	10
3815	Celadon Green-DK	43	16	36	14	18	7
3816	Celadon Green-MD	47	18	39	15	20	8
3823	Yellow-UL Pale	212	83	177	69	89	35

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3827	Golden Brown-Pale	7	2	6	2	3	1
3828	Hazelnut Brown	34	13	29	11	14	5
3830	Terra Cotta-MD	7	2	6	2	3	1
3848	Teal Green-MD	13	4	11	3	5	2
3849	Teal Green-LT	49	18	41	15	20	8
3855	Autumn Gold-LT	9	2	8	2	4	1
3857	Rosewood-DK	67	25	56	21	28	11
3858	Rosewood-MD	5	2	5	2	2	1
3862	Mocha Beige-DK	99	38	83	32	41	16
3863	Mocha Beige-MD	31	11	26	9	13	5
3865	Winter White	9	2	8	2	4	1

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	8	3	8	3	7	3
300	Mahogany-VY DK	6	2	6	2	5	2
310	Black	2778	1094	2672	1052	2573	1013
356	Terra Cotta-MD	1	1	1	1	1	1
367	Pistachio Green-DK	10	4	10	3	9	3
368	Pistachio Green-LT	31	12	30	11	29	11
369	Pistachio Green-VY LT	51	19	49	19	47	18
371	Mustard	63	24	60	24	58	23
372	Mustard-LT	24	9	23	8	22	8
407	Desert Sand-DK	3	1	3	1	3	1
413	Pewter Gray-DK	21	8	20	8	19	7
415	Pearl Gray	13	5	12	5	12	5
420	Hazelnut Brown-DK	13	5	12	5	12	5
433	Brown-MD	26	10	25	10	24	9
435	Brown-VY LT	4	1	4	1	4	1
445	Lemon-LT	5	1	5	1	5	1
452	Shell Gray-MD	2	1	2	1	2	1
500	Blue Green-VY DK	179	70	172	67	165	65
501	Blue Green-DK	44	17	42	17	41	16
502	Blue Green	42	16	40	15	39	15
503	Blue Green-MD	51	19	49	19	47	18
520	Fern Green-DK	54	21	52	20	50	19
522	Fern Green	109	42	105	41	101	39
523	Fern Green-LT	76	30	73	28	70	27
524	Fern Green-VY LT	117	46	113	44	109	43
535	Ash Gray-VY LT	30	12	28	11	27	11
543	Beige Brown-UL VY LT	11	4	10	3	10	3
564	Jade-VY LT	39	15	37	15	36	14
610	Drab Brown-DK	107	42	103	40	99	39
611	Drab Brown	168	66	161	63	155	61
612	Drab Brown-LT	60	24	58	23	56	22
613	Drab Brown-VY LT	179	70	172	67	165	65
632	Desert Sand-UL VY DK	23	9	22	8	21	8
640	Beige Gray-VY DK	171	67	164	64	158	62
642	Beige Gray-DK	33	13	32	12	31	12
644	Beige Gray-MD	53	21	51	20	49	19
645	Beaver Gray-VY DK	202	79	195	76	187	73
646	Beaver Gray-DK	50	19	48	19	47	18
647	Beaver Gray-MD	55	21	53	20	51	19
648	Beaver Gray-LT	27	10	26	10	25	9
677	Old Gold-VY LT	29	11	28	10	27	10

712	Cream	23	9	22	8	21	8
730	Olive Green-VY DK	14	5	13	5	13	5
738	Tan-VY LT	57	22	55	21	53	21
739	Tan-UL VY LT	45	17	43	17	41	16
745	Yellow-LT Pale	2	1	2	1	2	1
746	Off White	138	54	132	52	127	50
762	Pearl Gray-VY LT	5	1	5	1	5	1
772	Yellow Green-VY LT	112	44	107	42	103	41
801	Coffee Brown-DK	61	24	59	23	57	22
822	Beige Gray-LT	57	22	55	21	53	21
829	Golden Olive-VY DK	32	12	31	12	30	11
830	Golden Olive-DK	22	9	21	8	21	8
833	Golden Olive-LT	6	2	6	2	5	2
834	Golden Olive-VY LT	9	4	9	3	9	3
838	Beige Brown-VY DK	271	107	260	102	251	99
839	Beige Brown-DK	249	98	240	94	231	91
844	Beaver Brown-UL DK	374	147	359	141	346	136
869	Hazelnut Brown-VY DK	7	2	7	2	7	2
898	Coffee Brown-VY DK	318	125	306	120	295	116
924	Gray Green--VY DK	12	4	11	4	11	4
926	Gray Green-MD	27	10	26	10	25	9
927	Gray Green-LT	23	9	22	8	21	8
928	Gray Green-VY LT	4	1	4	1	4	1
932	Antique Blue-LT	26	10	25	10	24	9
934	Black Avocado Green	1453	572	1397	550	1345	529
935	Avocado Green-DK	791	311	761	299	733	288
936	Avocado Green-VY DK	444	174	427	168	411	161
937	Avocado Green-MD	97	38	93	37	90	35
938	Coffee Brown-UL DK	1650	649	1586	624	1527	601
955	Nile Green-LT	23	9	22	8	21	8
975	Golden Brown-DK	9	3	8	3	8	3
3011	Khaki Green-DK	280	110	269	106	259	102
3012	Khaki Green-MD	76	30	73	28	70	27
3013	Khaki Green-LT	68	27	66	26	63	25
3021	Brown Gray-VY DK	1322	520	1271	500	1224	481
3022	Brown Gray-MD	68	27	66	26	63	25
3023	Brown Gray-LT	35	13	33	12	32	12
3024	Brown Gray-VY LT	17	6	17	6	16	6
3031	Mocha Brown-VY DK	608	239	584	230	563	221
3032	Mocha Brown-MD	32	12	31	12	30	11
3046	Yellow Beige-MD	95	37	91	35	88	34
3047	Yellow Beige-LT	84	33	81	32	78	31
3051	Green Gray-DK	233	91	224	88	215	85
3052	Green Gray-MD	234	91	225	88	217	85
3053	Green Gray	84	33	81	32	78	31
3078	Golden Yellow-VY LT	52	20	50	19	48	19
3346	Hunter Green	12	4	12	4	11	4
3348	Yellow Green-LT	89	35	86	33	83	32
3362	Pine Green-DK	410	161	395	155	380	149
3364	Pine Green	66	25	63	24	61	23
3371	Black Brown	3444	1356	3312	1304	3189	1255
3752	Antique Blue-VY LT	17	6	17	6	16	6
3753	Antique Blue-UL VY LT	10	4	10	3	9	3
3766	Peacock Blue-LT	6	2	6	2	5	2
3768	Gray Green-DK	14	5	13	5	13	5
3772	Desert Sand-VY DK	2	1	2	1	2	1
3781	Mocha Brown-DK	450	177	433	170	417	164
3782	Mocha Brown-LT	32	12	31	12	30	11
3787	Brown Gray-DK	443	174	426	168	410	161

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3790	Beige Gray-UL DK	45	17	44	17	42	16
3799	Pewter Gray-VY DK	169	66	163	64	157	61
3813	Blue Green-LT	24	9	24	9	23	9
3815	Celadon Green-DK	17	6	17	6	16	6
3816	Celadon Green-MD	19	7	18	7	17	7
3823	Yellow-UL Pale	85	33	82	32	79	31
3827	Golden Brown-Pale	3	1	3	1	3	1
3828	Hazelnut Brown	14	5	13	5	13	5
3830	Terra Cotta-MD	3	1	3	1	3	1
3848	Teal Green-MD	5	1	5	1	5	1
3849	Teal Green-LT	19	7	19	7	18	7
3855	Autumn Gold-LT	4	1	3	1	3	1
3857	Rosewood-DK	27	10	26	10	25	9
3858	Rosewood-MD	2	1	2	1	2	1
3862	Mocha Beige-DK	40	15	38	15	37	14
3863	Mocha Beige-MD	12	4	12	4	11	4
3865	Winter White	4	1	3	1	3	1

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	7	3	7	2	6	2
300	Mahogany-VY DK	5	2	5	2	5	2
310	Black	2481	977	2315	911	2171	854
356	Terra Cotta-MD	1	1	1	1	1	1
367	Pistachio Green-DK	9	3	8	3	8	3
368	Pistachio Green-LT	28	10	26	10	24	9
369	Pistachio Green-VY LT	46	17	43	16	40	15
371	Mustard	56	22	52	20	49	19
372	Mustard-LT	21	8	20	7	19	7
407	Desert Sand-DK	3	1	2	1	2	1
413	Pewter Gray-DK	19	7	17	7	16	6
415	Pearl Gray	12	5	11	4	10	4
420	Hazelnut Brown-DK	12	5	11	4	10	4
433	Brown-MD	23	9	22	8	20	8
435	Brown-VY LT	4	1	4	1	3	1
445	Lemon-LT	5	1	4	1	4	1
452	Shell Gray-MD	2	1	2	1	2	1
500	Blue Green-VY DK	159	62	149	58	140	55
501	Blue Green-DK	39	15	37	14	34	14
502	Blue Green	37	14	35	13	33	12
503	Blue Green-MD	46	17	43	16	40	15
520	Fern Green-DK	48	19	45	17	42	16
522	Fern Green	97	38	91	35	85	33
523	Fern Green-LT	68	26	63	25	59	23
524	Fern Green-VY LT	105	41	98	38	92	36
535	Ash Gray-VY LT	26	10	25	10	23	9
543	Beige Brown-UL VY LT	10	3	9	3	8	3
564	Jade-VY LT	35	14	32	13	30	12
610	Drab Brown-DK	96	37	89	35	84	33
611	Drab Brown	150	59	140	55	131	51
612	Drab Brown-LT	54	21	50	20	47	19
613	Drab Brown-VY LT	159	62	149	58	140	55
632	Desert Sand-UL VY DK	21	8	19	7	18	7
640	Beige Gray-VY DK	152	60	142	56	133	52
642	Beige Gray-DK	30	12	28	11	26	10

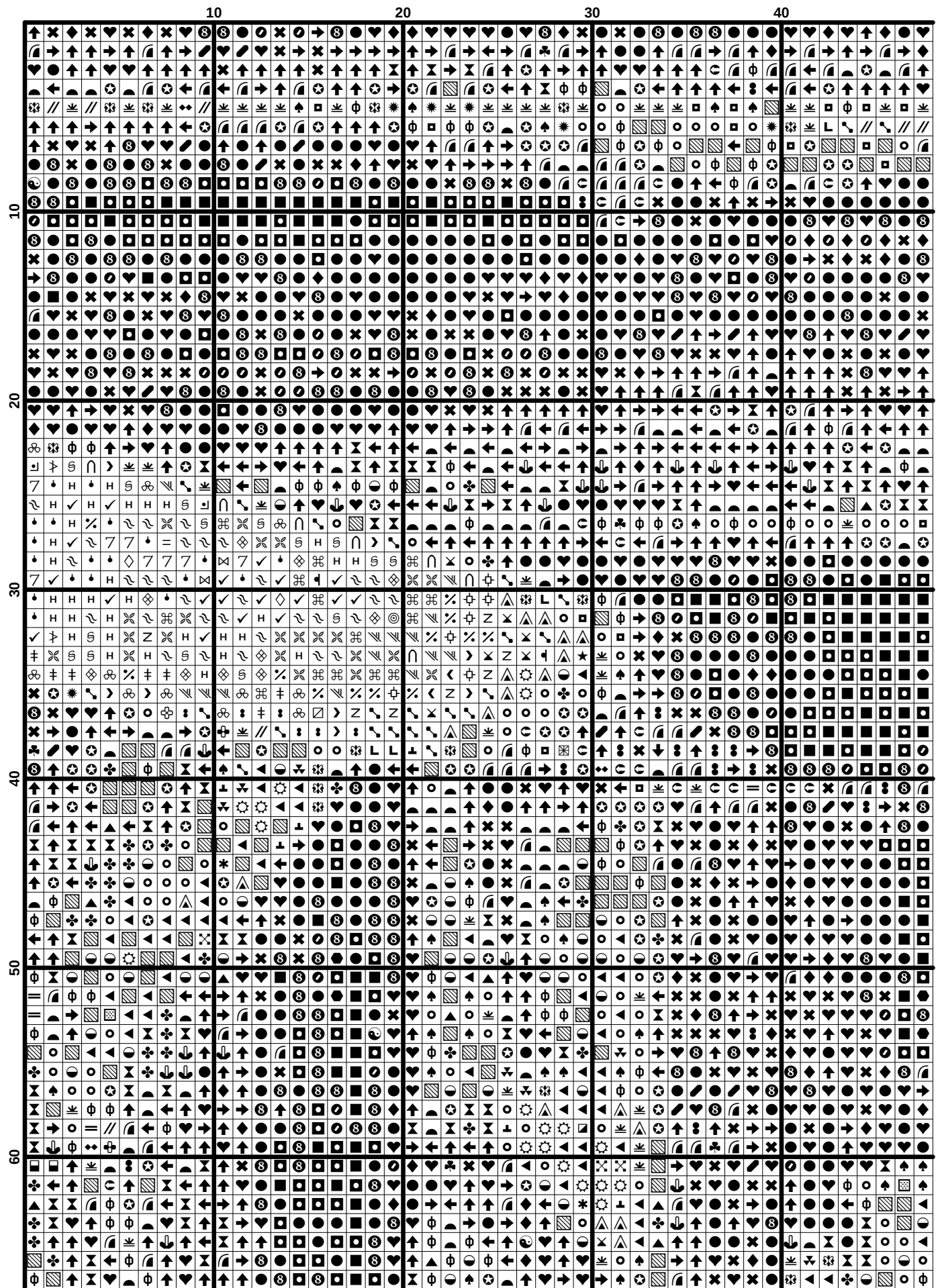
644	Beige Gray-MD	48	19	44	17	42	16
645	Beaver Gray-VY DK	181	71	169	66	158	62
646	Beaver Gray-DK	45	17	42	16	39	15
647	Beaver Gray-MD	49	19	46	17	43	16
648	Beaver Gray-LT	24	9	23	8	21	8
677	Old Gold-VY LT	26	10	24	9	23	8
712	Cream	21	8	19	7	18	7
730	Olive Green-VY DK	12	5	11	4	11	4
738	Tan-VY LT	51	20	47	19	44	17
739	Tan-UL VY LT	40	15	37	14	35	14
745	Yellow-LT Pale	2	1	2	1	2	1
746	Off White	123	48	115	45	107	42
762	Pearl Gray-VY LT	5	1	4	1	4	1
772	Yellow Green-VY LT	100	39	93	37	87	34
801	Coffee Brown-DK	55	21	51	20	48	19
822	Beige Gray-LT	51	20	47	19	44	17
829	Golden Olive-VY DK	29	11	27	10	25	10
830	Golden Olive-DK	20	8	19	7	17	7
833	Golden Olive-LT	5	2	5	2	5	2
834	Golden Olive-VY LT	8	3	8	3	7	3
838	Beige Brown-VY DK	242	95	226	89	212	83
839	Beige Brown-DK	222	87	208	82	195	77
844	Beaver Brown-UL DK	334	131	311	122	292	115
869	Hazelnut Brown-VY DK	6	2	6	2	6	2
898	Coffee Brown-VY DK	284	112	265	104	249	98
924	Gray Green--VY DK	10	4	10	4	9	3
926	Gray Green-MD	24	9	22	8	21	8
927	Gray Green-LT	21	8	19	7	18	7
928	Gray Green-VY LT	4	1	4	1	3	1
932	Antique Blue-LT	23	9	22	8	20	8
934	Black Avocado Green	1297	510	1211	476	1135	447
935	Avocado Green-DK	707	278	659	259	618	243
936	Avocado Green-VY DK	397	156	370	145	347	136
937	Avocado Green-MD	87	34	81	32	76	30
938	Coffee Brown-UL DK	1473	579	1375	541	1289	507
955	Nile Green-LT	21	8	19	7	18	7
975	Golden Brown-DK	8	3	7	2	7	2
3011	Khaki Green-DK	250	98	233	92	219	86
3012	Khaki Green-MD	68	26	63	25	59	23
3013	Khaki Green-LT	61	24	57	22	53	21
3021	Brown Gray-VY DK	1180	464	1102	433	1033	406
3022	Brown Gray-MD	61	24	57	22	53	21
3023	Brown Gray-LT	31	12	29	11	27	10
3024	Brown Gray-VY LT	15	6	14	5	14	5
3031	Mocha Brown-VY DK	543	213	506	199	475	187
3032	Mocha Brown-MD	29	11	27	10	25	10
3046	Yellow Beige-MD	85	33	79	31	74	29
3047	Yellow Beige-LT	75	30	70	28	66	26
3051	Green Gray-DK	208	82	194	76	182	71
3052	Green Gray-MD	209	82	195	76	183	71
3053	Green Gray	75	30	70	28	66	26
3078	Golden Yellow-VY LT	46	18	43	17	41	16
3346	Hunter Green	11	4	10	4	10	3
3348	Yellow Green-LT	80	31	74	29	70	27
3362	Pine Green-DK	366	144	342	134	321	126
3364	Pine Green	59	23	55	21	51	20
3371	Black Brown	3075	1211	2870	1130	2691	1059
3752	Antique Blue-VY LT	15	6	14	5	14	5
3753	Antique Blue-UL VY LT	9	3	8	3	8	3

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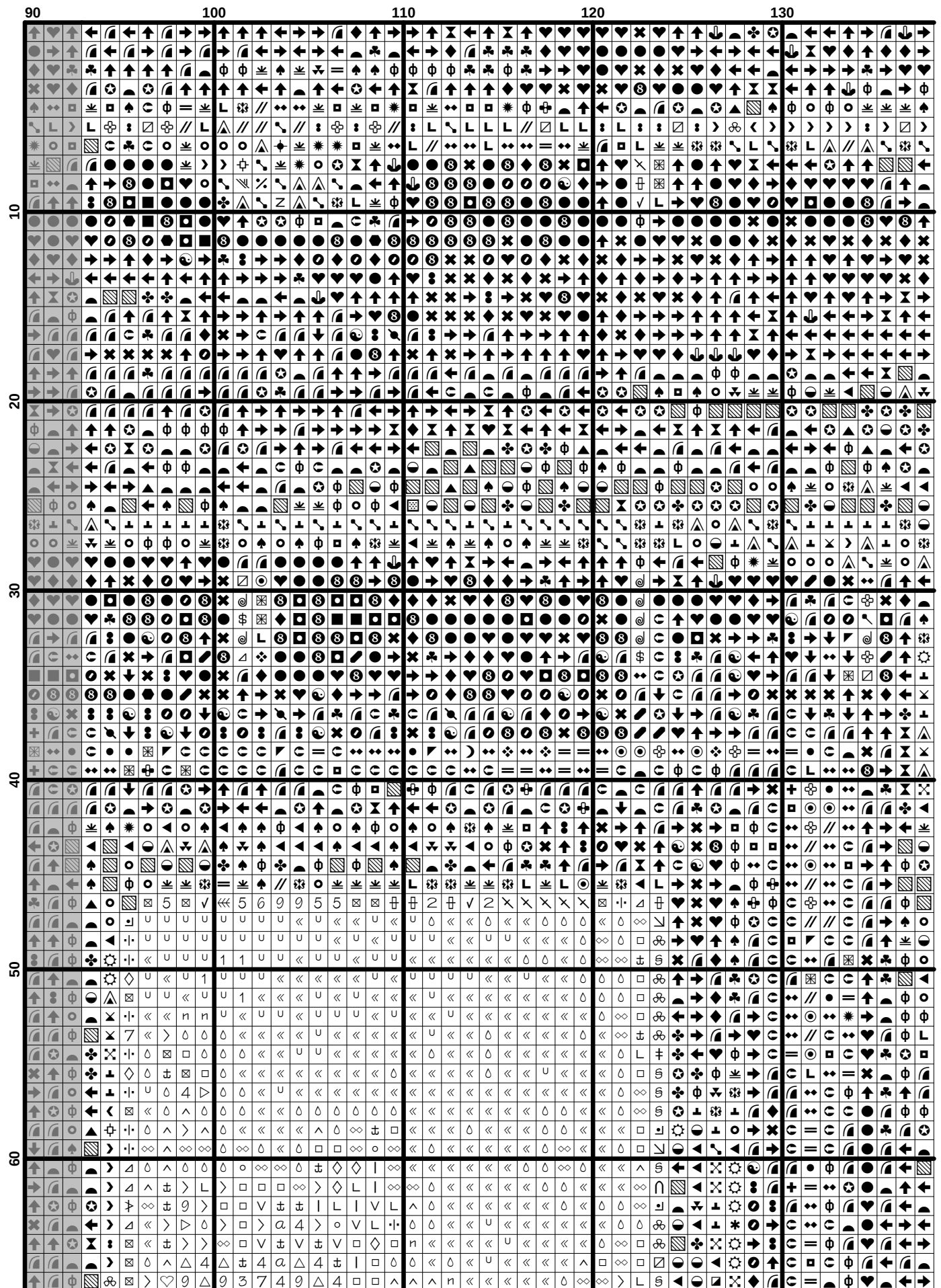
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3766	Peacock Blue-LT	5	2	5	2	5	2
3768	Gray Green-DK	12	5	11	4	11	4
3772	Desert Sand-VY DK	2	1	2	1	2	1
3781	Mocha Brown-DK	402	158	375	148	352	138
3782	Mocha Brown-LT	29	11	27	10	25	10
3787	Brown Gray-DK	395	156	369	145	346	136
3790	Beige Gray-UL DK	41	15	38	14	35	14
3799	Pewter Gray-VY DK	151	59	141	55	132	52
3813	Blue Green-LT	22	8	20	8	19	7
3815	Celadon Green-DK	15	6	14	5	14	5
3816	Celadon Green-MD	17	6	16	6	15	6
3823	Yellow-UL Pale	76	30	71	28	66	26
3827	Golden Brown-Pale	3	1	2	1	2	1
3828	Hazelnut Brown	12	5	11	4	11	4
3830	Terra Cotta-MD	3	1	2	1	2	1
3848	Teal Green-MD	5	1	4	1	4	1
3849	Teal Green-LT	17	6	16	6	15	6
3855	Autumn Gold-LT	3	1	3	1	3	1
3857	Rosewood-DK	24	9	22	8	21	8
3858	Rosewood-MD	2	1	2	1	2	1
3862	Mocha Beige-DK	35	14	33	13	31	12
3863	Mocha Beige-MD	11	4	10	4	10	3
3865	Winter White	3	1	3	1	3	1

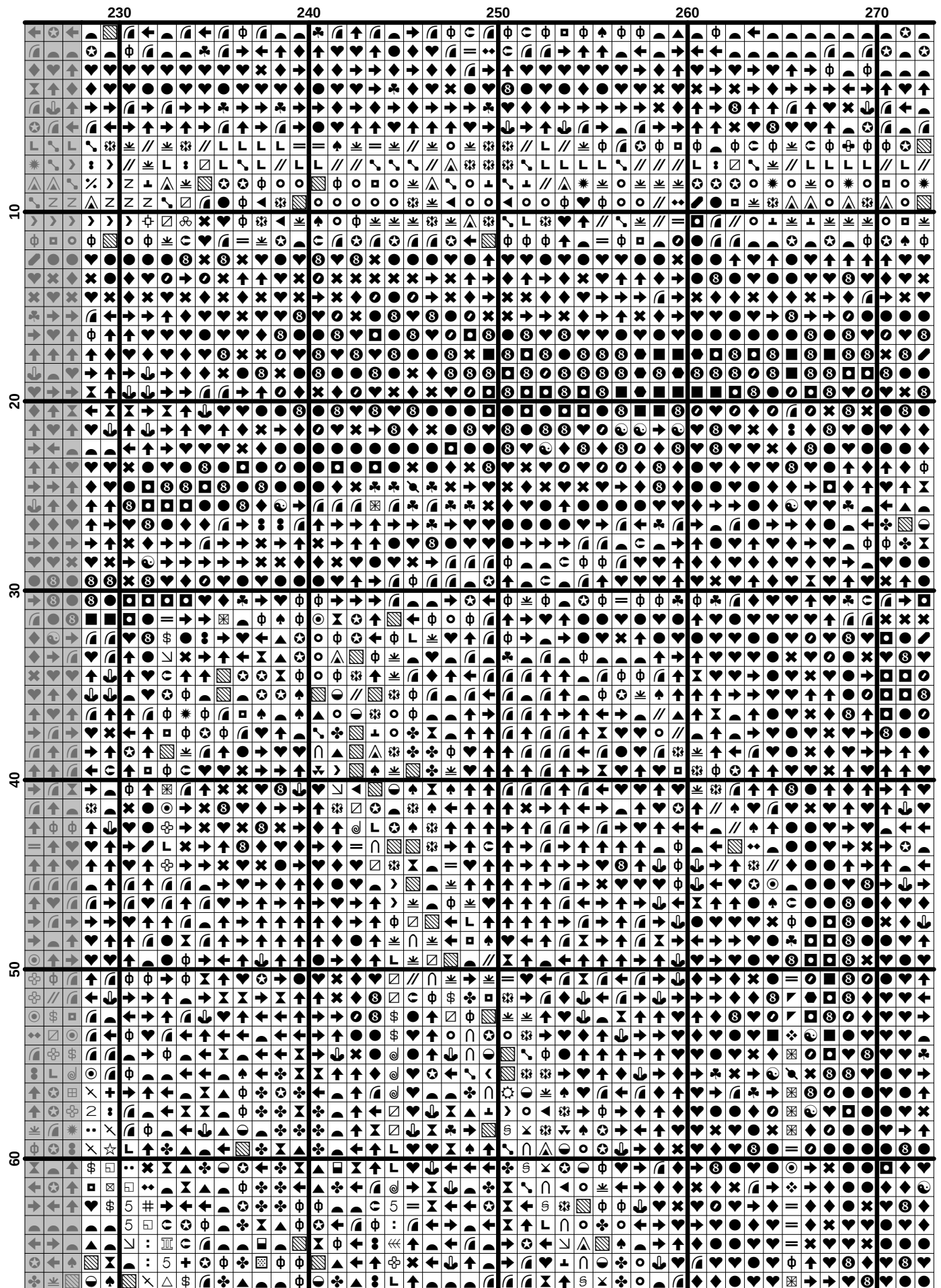


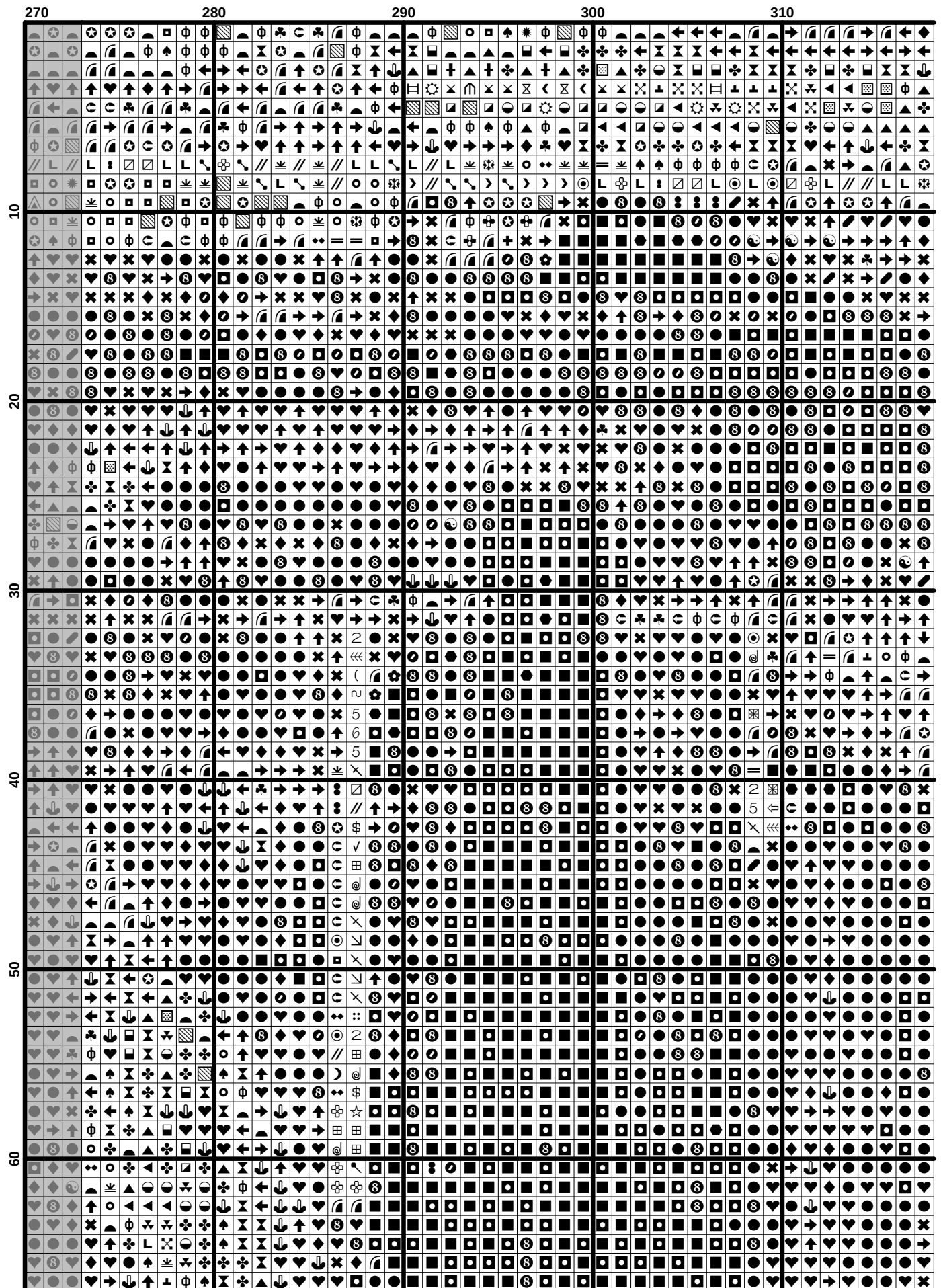


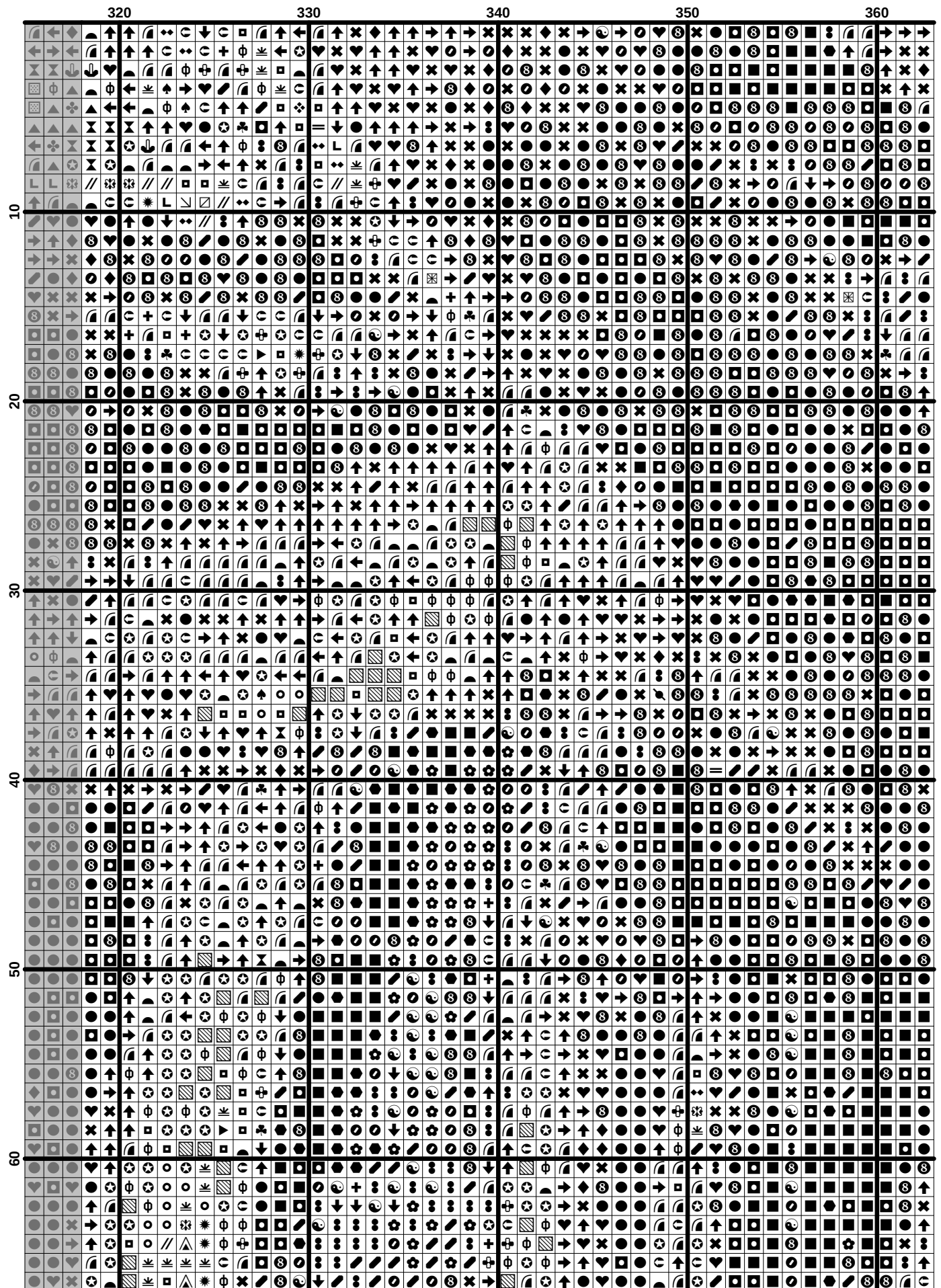


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10					
20					
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40					
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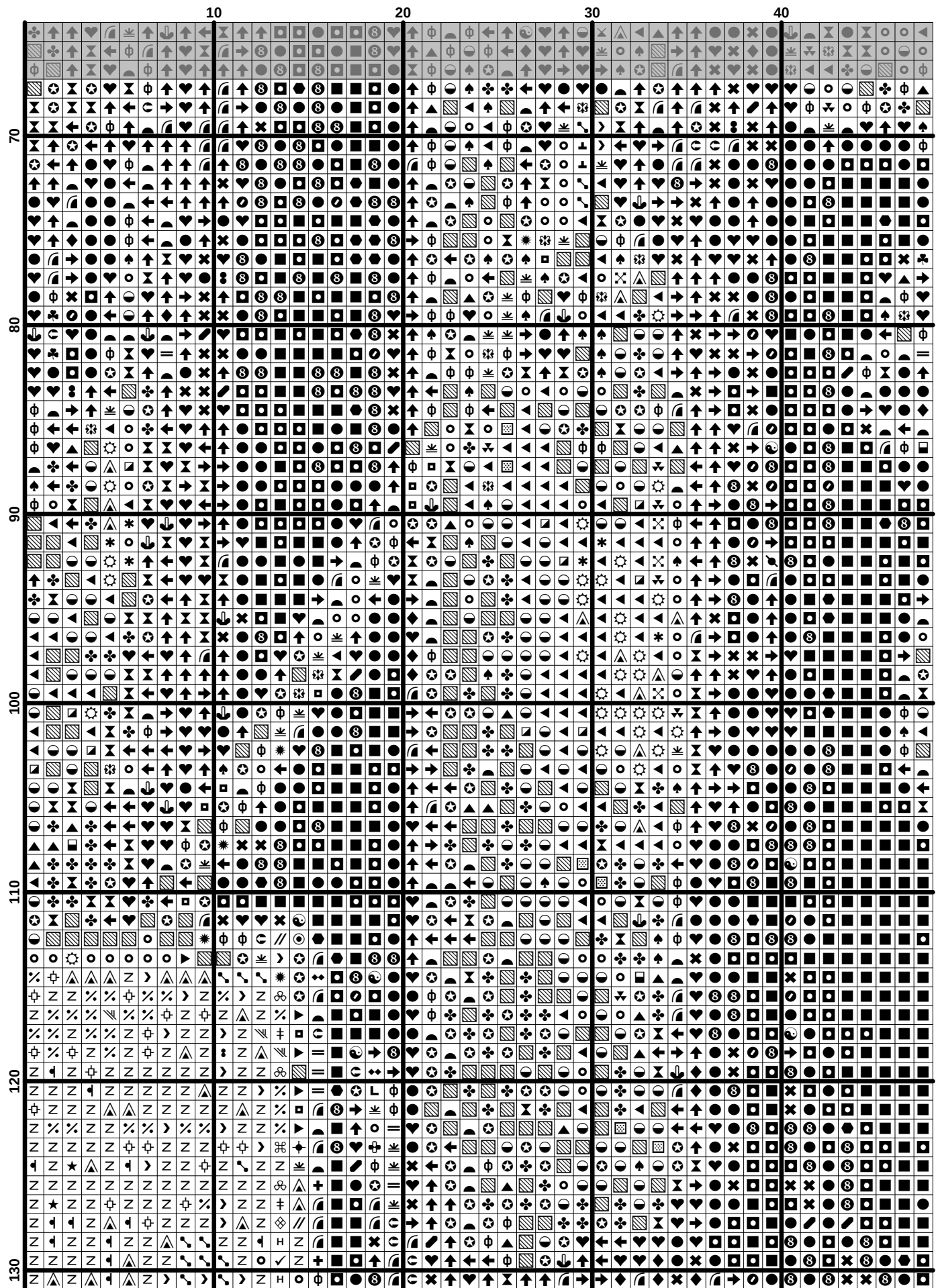
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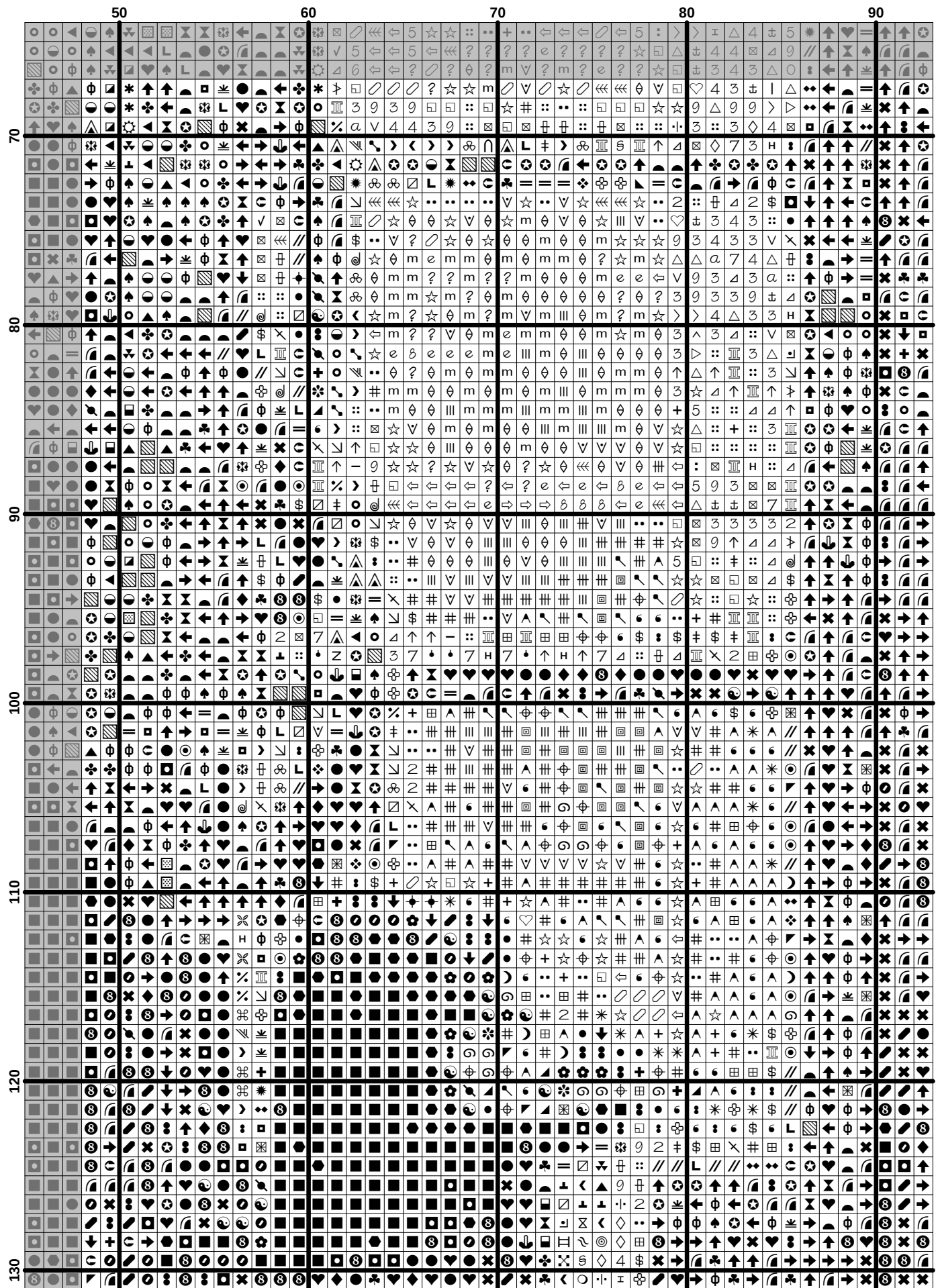








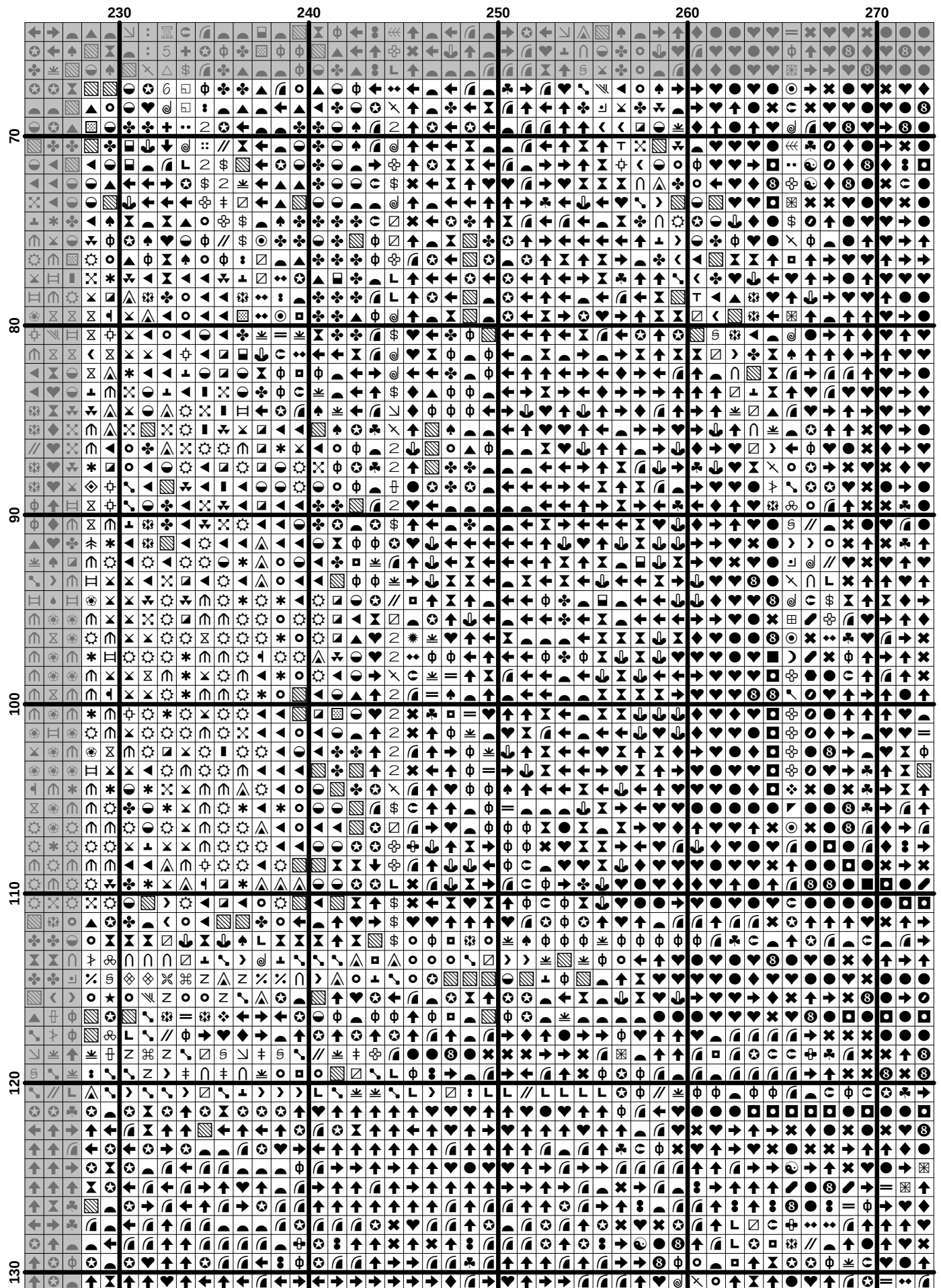


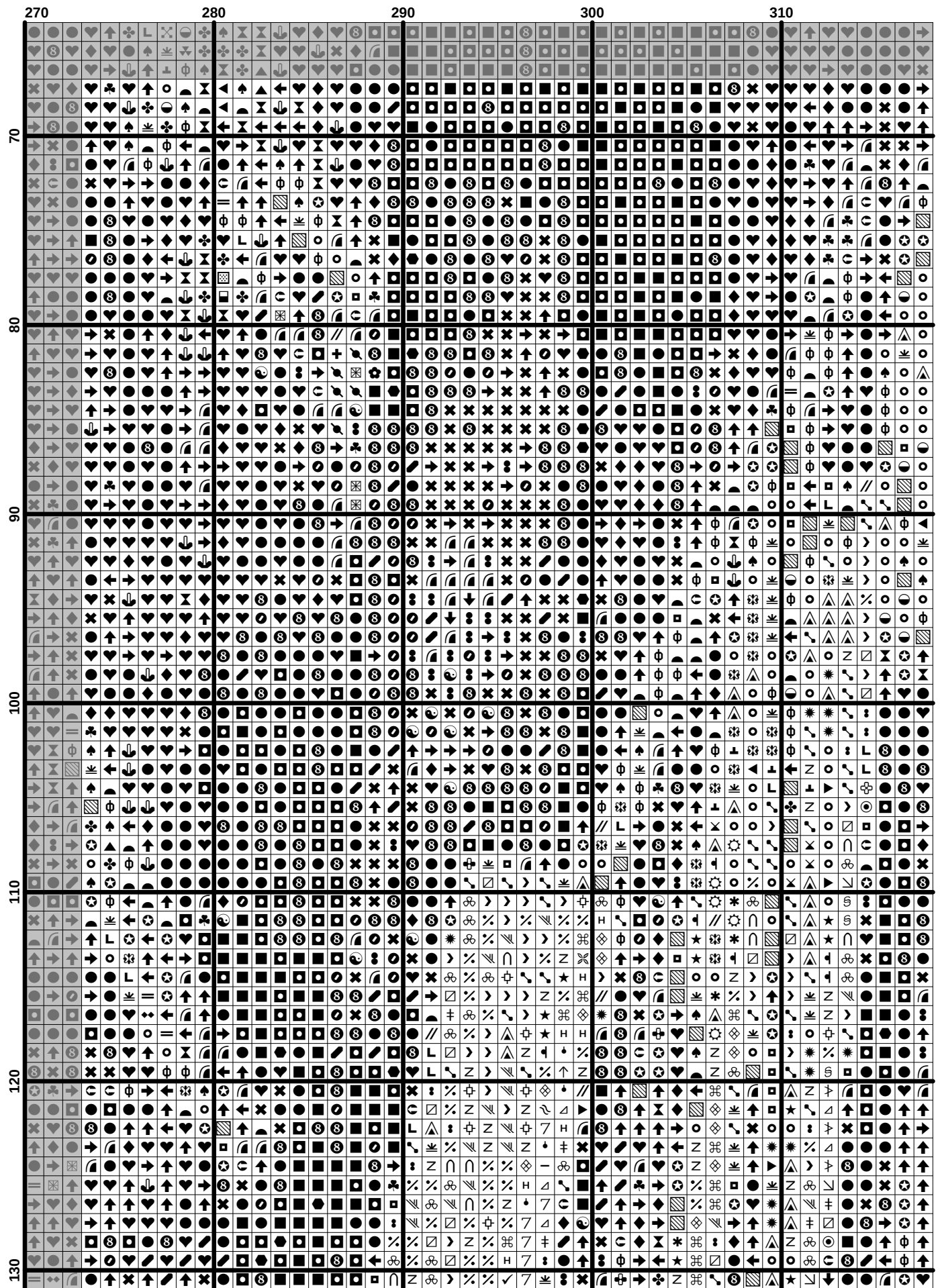


	90	100	110	120	130
70					
80					
90					
100					
110					
120					
130					

	140	150	160	170	180
70					
80					
90					
100					
110					
120					
130					

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





	320	330	340	350	360
70	...	...	...	...	...
80	...	...	...	...	...
90	...	...	...	...	...
100	...	...	...	...	...
110	...	...	...	...	...
120	...	...	...	...	...
130	...	...	...	...	...

