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855 Two Sisters



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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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Two Sisters

Stitch Count	
Horizontal:	300
Vertical:	424

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:	55	21.37	77	30.21	48	18.7	68	26.43	43	16.625	60	23.5
Including Margins:	71	28	93	37	64	25	84	33	59	23	76	30
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	77	29.91	107	42.29	64	24.93	89	35.24	32	12.46	44	17.62
Including Margins:	93	36	123	49	80	31	105	42	48	19	60	24
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	30	11.96	43	16.91	29	11.5	41	16.26	28	11.08	39	15.66
Including Margins:	46	18	59	23	45	18	57	23	44	18	55	22
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	27	10.68	38	15.1	25	9.97	35	14.09	24	9.34	33	13.21
Including Margins:	43	17	54	22	41	16	51	21	40	16	49	20

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

Symbol	DMC	Name
•	1	White 1
⦿	224	Shell Pink-VY LT
⦿	225	Shell Pink-UL VY LT
■	310	Black
⦿	317	Pewter Gray
⦿	318	Steel Gray-LT
⦿	371	Mustard
□	372	Mustard-LT
⦿	407	Desert Sand-DK
⦿	413	Pewter Gray-DK
m	415	Pearl Gray
⦿	451	Shell Gray-DK
○	453	Shell Gray-LT
⦿	500	Blue Green-VY DK
*	522	Fern Green
z	523	Fern Green-LT
⦿	524	Fern Green-VY LT
⦿	535	Ash Gray-VY LT
7	543	Beige Brown-UL VY LT
△	610	Drab Brown-DK
⦿	611	Drab Brown
⦿	612	Drab Brown-LT
⦿	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
~	712	Cream
L	746	Off White
◁	754	Peach-LT
◊	762	Pearl Gray-VY LT
⦿	775	Baby Blue-VY LT
(819	Baby Pink-LT
⦿	822	Beige Gray-LT
←	839	Beige Brown-DK
⦿	840	Beige Brown-MD
☆	842	Beige Brown-VY LT

♣	844	Beaver Brown-UL DK
✕	924	Gray Green-VY DK
⦿	926	Gray Green-MD
⦿	927	Gray Green-LT
⦿	928	Gray Green-VY LT
⦿	932	Antique Blue-LT
●	934	Black Avocado Green
⦿	950	Desert Sand-LT
⦿	3011	Khaki Green-DK
⦿	3013	Khaki Green-LT
⦿	3021	Brown Gray-VY DK
⦿	3022	Brown Gray-MD
⦿	3023	Brown Gray-LT
⦿	3024	Brown Gray-VY LT
⦿	3031	Mocha Brown-VY DK
⦿	3032	Mocha Brown-MD
⦿	3033	Mocha Brown-VY LT
⦿	3052	Green Gray-MD
⦿	3053	Green Gray
⦿	3072	Beaver Gray-VY LT
⦿	3362	Pine Green-DK
■	3371	Black Brown
⦿	3713	Salmon-VY LT
⦿	3743	Antique Violet-VY LT
⦿	3752	Antique Blue-VY LT
⦿	3753	Antique Blue-UL VY LT
u	3756	Baby Blue-UL VY LT
⦿	3770	Tawny-VY LT
⦿	3772	Desert Sand-VY DK
⦿	3774	Desert Sand-VY LT
⦿	3781	Mocha Brown-DK
⦿	3782	Mocha Brown-LT
⦿	3787	Brown Gray-DK
⦿	3790	Beige Gray-UL DK
⦿	3799	Pewter Gray-VY DK
⦿	3862	Mocha Beige-DK
⦿	3863	Mocha Beige-MD
⦿	3864	Mocha Beige-LT
⦿	3865	Winter White
⦿	3866	Mocha Brown-UL VY LT
-	Ecrú	Ecrú

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

Symbol	DMC1	Name1	DMC2	Name2
◆	3799	Pewter Gray -VY DK	844	Beaver Brown-UL DK
⊕	612	Drab Brown-LT	3772	Desert Sand-VY DK
▲	3864	Mocha Beige-LT	3032	Mocha Brown-MD
▶	3772	Desert Sand-VY DK	3721	Shell Pink- DK
▲	453	Shell Gray-LT	928	Gray Green-VY LT
▼	3787	Brown Gray -DK	610	Drab Brown-DK
⊕	3864	Mocha Beige-LT	407	Desert Sand-DK
⊕	926	Gray Green-MD	927	Gray Green-LT
●	934	Black Avocado Green	3799	Pewter Gray -VY DK
↓	935	Avocado Green-DK	3021	Brown Gray -VY DK
⊕	3787	Brown Gray -DK	3790	Beige Gray-UL DK
⊕	738	Tan-VY LT	3782	Mocha Brown-LT
♥	3021	Brown Gray -VY DK	3031	Mocha Brown-VY DK
«	1	White 1	3865	Winter White
⊕	3052	Green Gray-MD	645	Beaver Gray-VY DK
⊕	3787	Brown Gray -DK	3346	Hunter Green
⊕	535	Ash Gray -VY LT	645	Beaver Gray-VY DK
▲	3862	Mocha Beige-DK	632	Desert Sand-UL VY DK
⊕	407	Desert Sand-DK	642	Beige Gray-DK
†	317	Pewter Gray	413	Pewter Gray -DK
→	3021	Brown Gray -VY DK	3787	Brown Gray -DK
↑	844	Beaver Brown-UL DK	3781	Mocha Brown-DK
⊕	3021	Brown Gray -VY DK	610	Drab Brown-DK
●	934	Black Avocado Green	935	Avocado Green-DK
↓	839	Beige Brown-DK	3787	Brown Gray -DK
⊕	3863	Mocha Beige-MD	3032	Mocha Brown-MD
⊕	840	Beige Brown-MD	612	Drab Brown-LT
⊕	3023	Brown Gray -LT	642	Beige Gray-DK
♠	3772	Desert Sand-VY DK	3862	Mocha Beige-DK
♦	370	Mustard-MD	3772	Desert Sand-VY DK
⊕	610	Drab Brown-DK	839	Beige Brown-DK
//	372	Mustard-LT	3023	Brown Gray -LT
√	3713	Salmon-VY LT	3866	Mocha Brown-UL VY LT
	738	Tan-VY LT	3013	Khaki Green-LT
+	950	Desert Sand-LT	644	Beige Gray-MD
›	453	Shell Gray-LT	950	Desert Sand-LT
○	950	Desert Sand-LT	3774	Desert Sand-VY LT
4	842	Beige Brown-VY LT	524	Fern Green-VY LT
	642	Beige Gray-DK	372	Mustard-LT
::	225	Shell Pink-UL VY LT	ecru	Ecru
α	453	Shell Gray-LT	543	Beige Brown-UL VY LT
>	822	Beige Gray-LT	3770	Tawny -VY LT
/	3770	Tawny -VY LT	3713	Salmon-VY LT
c	746	Off White	3713	Salmon-VY LT
↓	842	Beige Brown-VY LT	3864	Mocha Beige-LT
1	746	Off White	3770	Tawny -VY LT
⊕	3772	Desert Sand-VY DK	611	Drab Brown
⊕	3032	Mocha Brown-MD	3772	Desert Sand-VY DK
×	926	Gray Green-MD	932	Antique Blue-LT
/	3772	Desert Sand-VY DK	3782	Mocha Brown-LT
⊕	3862	Mocha Beige-DK	612	Drab Brown-LT
★	372	Mustard-LT	3772	Desert Sand-VY DK
⊕	3787	Brown Gray -DK	3862	Mocha Beige-DK

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+	225	Shell Pink-UL VY LT	3072	Beaver Gray-VY LT
5	543	Beige Brown-UL VY LT	3774	Desert Sand-VY LT
↑	950	Desert Sand-LT	224	Shell Pink-VY LT
◇	3862	Mocha Beige-DK	3863	Mocha Beige-MD
■	840	Beige Brown-MD	645	Beaver Gray-VY DK
◇	524	Fern Green-VY LT	3864	Mocha Beige-LT
✱	3721	Shell Pink-DK	610	Drab Brown-DK
✱	610	Drab Brown-DK	632	Desert Sand-UL VY DK
↑	3022	Brown Gray -MD	3032	Mocha Brown-MD
\$	612	Drab Brown-LT	356	Terra Cotta-MD
⊙	3772	Desert Sand-VY DK	356	Terra Cotta-MD
⊗	407	Desert Sand-DK	356	Terra Cotta-MD
⊖	3721	Shell Pink-DK	356	Terra Cotta-MD
✱	3772	Desert Sand-VY DK	632	Desert Sand-UL VY DK
∩	372	Mustard-LT	612	Drab Brown-LT
*	926	Gray Green-MD	317	Pewter Gray
∩	415	Pearl Gray	927	Gray Green-LT
)	762	Pearl Gray-VY LT	3865	Winter White
8	3743	Antique Violet-VY LT	3756	Baby Blue-UL VY LT
⊗	924	Gray Green-VY DK	413	Pewter Gray -DK
⊗	839	Beige Brown-DK	3362	Pine Green-DK
⊗	503	Blue Green-MD	646	Beaver Gray-DK
⊙	3346	Hunter Green	611	Drab Brown
⊗	371	Mustard	612	Drab Brown-LT
●	3022	Brown Gray -MD	640	Beige Gray-VY DK
▲	3782	Mocha Brown-LT	356	Terra Cotta-MD
⊗	3023	Brown Gray -LT	926	Gray Green-MD
⊗	839	Beige Brown-DK	645	Beaver Gray-VY DK
⇒	371	Mustard	522	Fern Green
⊗	924	Gray Green-VY DK	3799	Pewter Gray -VY DK
L	3013	Khaki Green-LT	371	Mustard
*	632	Desert Sand-UL VY DK	611	Drab Brown
⊗	842	Beige Brown-VY LT	407	Desert Sand-DK
+	3862	Mocha Beige-DK	3790	Beige Gray-UL DK
+	3863	Mocha Beige-MD	3790	Beige Gray-UL DK
✱	3799	Pewter Gray -VY DK	413	Pewter Gray -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	415	163	395	155	355	139
224	Shell Pink-VY LT	12	4	11	4	10	3
225	Shell Pink-UL VY LT	94	37	90	35	81	31
310	Black	11	4	11	4	10	3
317	Pewter Gray	70	27	67	26	60	23
318	Steel Gray-LT	17	6	16	6	14	5
356	Terra Cotta-MD	14	5	13	5	12	4
370	Mustard-MD	12	4	12	4	11	4
371	Mustard	147	57	140	55	126	49
372	Mustard-LT	318	125	302	118	272	107
407	Desert Sand-DK	57	22	54	21	49	19
413	Pewter Gray -DK	465	183	443	174	399	157
415	Pearl Gray	126	49	120	47	108	42
451	Shell Gray-DK	19	7	18	7	16	6
453	Shell Gray-LT	303	119	289	113	260	102
500	Blue Green-VY DK	86	33	82	32	74	29
503	Blue Green-MD	7	2	6	2	6	2
522	Fern Green	136	53	129	50	116	45
523	Fern Green-LT	25	9	24	9	22	8
524	Fern Green-VY LT	915	360	871	342	784	308
535	Ash Gray -VY LT	211	83	201	79	181	71
543	Beige Brown-UL VY LT	157	61	150	59	135	53
610	Drab Brown-DK	353	138	336	132	302	118
611	Drab Brown	152	59	145	57	130	51
612	Drab Brown-LT	240	94	229	90	206	81
632	Desert Sand-UL VY DK	68	26	65	25	58	22
640	Beige Gray-VY DK	533	209	508	200	457	179
642	Beige Gray-DK	736	289	701	275	631	248
644	Beige Gray-MD	150	59	143	56	129	50
645	Beaver Gray-VY DK	411	161	392	154	352	138
646	Beaver Gray-DK	68	26	65	25	59	23
647	Beaver Gray-MD	235	92	224	88	201	79
648	Beaver Gray-LT	253	99	241	94	217	85
712	Cream	261	102	249	98	224	88
738	Tan-VY LT	21	8	20	7	18	7
746	Off White	438	172	417	164	375	147
754	Peach-LT	10	3	9	3	8	3
762	Pearl Gray-VY LT	127	50	121	47	109	42
775	Baby Blue-VY LT	24	9	23	9	21	8
819	Baby Pink-LT	128	50	122	48	110	43
822	Beige Gray-LT	141	55	134	52	121	47
839	Beige Brown-DK	541	212	515	202	464	182
840	Beige Brown-MD	407	160	387	152	348	137
842	Beige Brown-VY LT	331	130	316	124	284	111
844	Beaver Brown-UL DK	1504	592	1433	564	1289	507
924	Gray Green-VY DK	600	236	571	224	514	202
926	Gray Green-MD	97	38	93	36	83	32
927	Gray Green-LT	133	52	127	50	114	44
928	Gray Green-VY LT	267	105	254	100	228	89
932	Antique Blue-LT	15	5	14	5	12	4
934	Black Avocado Green	5137	2022	4893	1926	4403	1733
935	Avocado Green-DK	1199	472	1141	449	1027	404
950	Desert Sand-LT	154	60	147	57	132	51
3011	Khaki Green-DK	14	5	13	5	12	4

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3013	Khaki Green-LT	47	18	45	17	41	16
3021	Brown Gray -VY DK	2175	856	2072	815	1864	733
3022	Brown Gray -MD	453	178	431	169	388	152
3023	Brown Gray -LT	875	344	833	327	750	295
3024	Brown Gray -VY LT	348	137	332	130	298	117
3031	Mocha Brown-VY DK	320	125	305	120	274	107
3032	Mocha Brown-MD	772	303	735	289	662	260
3033	Mocha Brown-VY LT	23	9	22	8	20	7
3052	Green Gray-MD	144	56	137	53	123	48
3053	Green Gray	32	12	31	12	28	11
3072	Beaver Gray-VY LT	403	158	383	150	345	135
3346	Hunter Green	111	43	106	41	95	37
3362	Pine Green-DK	203	79	193	75	174	68
3371	Black Brown	48	18	46	18	41	16
3713	Salmon-VY LT	217	85	206	81	186	73
3721	Shell Pink-DK	6	2	5	1	5	1
3743	Antique Violet-VY LT	47	18	45	17	41	16
3752	Antique Blue-VY LT	24	9	23	9	21	8
3753	Antique Blue-UL VY LT	42	16	40	15	36	14
3756	Baby Blue-UL VY LT	94	37	89	35	80	31
3770	Tawny-VY LT	213	83	202	79	182	71
3772	Desert Sand-VY DK	188	74	179	70	161	63
3774	Desert Sand-VY LT	111	43	106	41	95	37
3781	Mocha Brown-DK	395	155	376	148	339	133
3782	Mocha Brown-LT	177	69	169	66	152	59
3787	Brown Gray -DK	1038	408	988	388	889	350
3790	Beige Gray-UL DK	641	252	610	240	549	216
3799	Pewter Gray -VY DK	6050	2381	5762	2268	5186	2041
3862	Mocha Beige-DK	354	139	337	132	303	119
3863	Mocha Beige-MD	400	157	381	150	343	135
3864	Mocha Beige-LT	349	137	333	131	299	117
3865	Winter White	781	307	743	292	669	263
3866	Mocha Brown-UL VY LT	311	122	296	116	266	104
ecru	Ecru	98	38	93	36	84	33

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	639	250	533	209	266	104
224	Shell Pink-VY LT	18	5	15	5	8	2
225	Shell Pink-UL VY LT	146	56	122	47	61	23
310	Black	18	5	15	5	8	2
317	Pewter Gray	108	41	90	35	45	17
318	Steel Gray-LT	25	9	21	8	11	4
356	Terra Cotta-MD	22	7	18	6	9	3
370	Mustard-MD	20	7	17	6	8	3
371	Mustard	227	88	189	74	95	37
372	Mustard-LT	490	193	408	161	204	80
407	Desert Sand-DK	88	34	74	29	37	14
413	Pewter Gray -DK	718	283	599	236	299	118
415	Pearl Gray	194	76	162	63	81	32
451	Shell Gray-DK	29	11	24	9	12	5
453	Shell Gray-LT	468	184	390	153	195	77
500	Blue Green-VY DK	133	52	111	44	56	22
503	Blue Green-MD	11	4	9	3	5	2
522	Fern Green	209	81	174	68	87	34

523	Fern Green-LT	40	14	33	12	17	6
524	Fern Green-VY LT	1411	554	1176	462	588	231
535	Ash Gray-VY LT	326	128	272	107	136	53
543	Beige Brown-UL VY LT	243	95	203	80	101	40
610	Drab Brown-DK	544	212	453	177	227	89
611	Drab Brown	234	92	195	77	98	38
612	Drab Brown-LT	371	146	309	122	155	61
632	Desert Sand-UL VY DK	104	40	87	33	44	17
640	Beige Gray-VY DK	823	322	686	269	343	134
642	Beige Gray-DK	1136	446	947	372	473	186
644	Beige Gray-MD	232	90	194	75	97	38
645	Beaver Gray-VY DK	634	248	528	207	264	104
646	Beaver Gray-DK	106	41	89	35	44	17
647	Beaver Gray-MD	362	142	302	119	151	59
648	Beaver Gray-LT	391	153	326	128	163	64
712	Cream	403	158	336	132	168	66
738	Tan-VY LT	32	13	27	11	14	5
746	Off White	675	265	563	221	281	110
754	Peach-LT	14	5	12	5	6	2
762	Pearl Gray-VY LT	196	76	164	63	82	32
775	Baby Blue-VY LT	38	14	32	12	16	6
819	Baby Pink-LT	198	77	165	65	83	32
822	Beige Gray-LT	218	85	182	71	91	35
839	Beige Brown-DK	835	328	696	273	348	137
840	Beige Brown-MD	626	247	522	206	261	103
842	Beige Brown-VY LT	511	200	426	167	213	83
844	Beaver Brown-UL DK	2320	913	1934	761	967	380
924	Gray Green-VY DK	925	364	771	303	386	152
926	Gray Green-MD	149	58	125	48	62	24
927	Gray Green-LT	205	79	171	66	86	33
928	Gray Green-VY LT	410	160	342	134	171	67
932	Antique Blue-LT	22	7	18	6	9	3
934	Black Avocado Green	7925	3119	6605	2600	3302	1300
935	Avocado Green-DK	1849	727	1541	606	770	303
950	Desert Sand-LT	238	92	198	77	99	38
3011	Khaki Green-DK	22	7	18	6	9	3
3013	Khaki Green-LT	74	29	62	24	31	12
3021	Brown Gray -VY DK	3355	1319	2796	1100	1398	550
3022	Brown Gray -MD	698	274	582	228	291	114
3023	Brown Gray -LT	1350	531	1125	443	563	221
3024	Brown Gray -VY LT	536	211	447	176	224	88
3031	Mocha Brown-VY DK	493	193	411	161	206	80
3032	Mocha Brown-MD	1192	468	993	390	497	195
3033	Mocha Brown-VY LT	36	13	30	11	15	5
3052	Green Gray-MD	221	86	185	72	92	36
3053	Green Gray	50	20	42	17	21	8
3072	Beaver Gray-VY LT	621	243	518	203	259	101
3346	Hunter Green	171	67	143	56	71	28
3362	Pine Green-DK	313	122	261	102	131	51
3371	Black Brown	74	29	62	24	31	12
3713	Salmon-VY LT	335	131	279	110	140	55
3721	Shell Pink-DK	9	2	8	2	4	1
3743	Antique Violet-VY LT	74	29	62	24	31	12
3752	Antique Blue-VY LT	38	14	32	12	16	6
3753	Antique Blue-UL VY LT	65	25	54	21	27	11
3756	Baby Blue-UL VY LT	144	56	120	47	60	23
3770	Tawny -VY LT	328	128	273	107	137	53
3772	Desert Sand-VY DK	290	113	242	95	121	47
3774	Desert Sand-VY LT	171	67	143	56	71	28

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3781	Mocha Brown-DK	610	239	509	200	254	100
3782	Mocha Brown-LT	274	106	228	89	114	44
3787	Brown Gray -DK	1600	630	1334	525	667	263
3790	Beige Gray-UL DK	988	389	824	324	412	162
3799	Pewter Gray -VY DK	9335	3674	7779	3062	3890	1531
3862	Mocha Beige-DK	545	214	455	179	227	89
3863	Mocha Beige-MD	617	243	515	203	257	101
3864	Mocha Beige-LT	538	211	449	176	224	88
3865	Winter White	1204	473	1004	395	502	197
3866	Mocha Brown-UL VY LT	479	187	399	156	200	78
ecru	Ecrú	151	59	126	50	63	25

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	256	100	246	96	237	93
224	Shell Pink-VY LT	7	2	7	2	7	2
225	Shell Pink-UL VY LT	58	22	56	21	54	21
310	Black	7	2	7	2	7	2
317	Pewter Gray	43	17	42	16	40	15
318	Steel Gray-LT	10	4	10	3	9	3
356	Terra Cotta-MD	9	3	8	3	8	3
370	Mustard-MD	8	3	8	3	7	3
371	Mustard	91	35	87	34	84	33
372	Mustard-LT	196	77	188	74	181	71
407	Desert Sand-DK	35	14	34	13	33	13
413	Pewter Gray -DK	287	113	276	109	266	105
415	Pearl Gray	78	30	75	29	72	28
451	Shell Gray-DK	12	4	11	4	11	4
453	Shell Gray-LT	187	73	180	71	173	68
500	Blue Green-VY DK	53	21	51	20	49	19
503	Blue Green-MD	4	1	4	1	4	1
522	Fern Green	84	32	80	31	77	30
523	Fern Green-LT	16	6	15	6	15	5
524	Fern Green-VY LT	564	222	543	213	523	205
535	Ash Gray-VY LT	130	51	125	49	121	47
543	Beige Brown-UL VY LT	97	38	93	37	90	35
610	Drab Brown-DK	217	85	209	82	201	79
611	Drab Brown	94	37	90	35	87	34
612	Drab Brown-LT	148	58	143	56	137	54
632	Desert Sand-UL VY DK	42	16	40	15	39	15
640	Beige Gray-VY DK	329	129	316	124	305	119
642	Beige Gray-DK	454	179	437	172	421	165
644	Beige Gray-MD	93	36	89	35	86	33
645	Beaver Gray-VY DK	253	99	244	96	235	92
646	Beaver Gray-DK	42	17	41	16	39	15
647	Beaver Gray-MD	145	57	139	55	134	53
648	Beaver Gray-LT	156	61	150	59	145	57
712	Cream	161	63	155	61	149	59
738	Tan-VY LT	13	5	12	5	12	5
746	Off White	270	106	260	102	250	98
754	Peach-LT	6	2	6	2	5	2
762	Pearl Gray-VY LT	78	30	75	29	73	28
775	Baby Blue-VY LT	15	6	15	6	14	5
819	Baby Pink-LT	79	31	76	30	73	29
822	Beige Gray-LT	87	34	84	33	81	31

839	Beige Brown-DK	334	131	321	126	309	121
840	Beige Brown-MD	251	99	241	95	232	91
842	Beige Brown-VY LT	204	80	197	77	189	74
844	Beaver Brown-UL DK	928	365	892	351	859	338
924	Gray Green-VY DK	370	145	356	140	343	135
926	Gray Green-MD	60	23	57	22	55	21
927	Gray Green-LT	82	32	79	30	76	29
928	Gray Green-VY LT	164	64	158	62	152	59
932	Antique Blue-LT	9	3	8	3	8	3
934	Black Avocado Green	3170	1248	3048	1200	2935	1155
935	Avocado Green-DK	739	291	711	280	685	269
950	Desert Sand-LT	95	37	91	35	88	34
3011	Khaki Green-DK	9	3	8	3	8	3
3013	Khaki Green-LT	30	12	28	11	27	11
3021	Brown Gray -VY DK	1342	528	1290	507	1243	489
3022	Brown Gray -MD	279	109	269	105	259	101
3023	Brown Gray -LT	540	212	519	204	500	197
3024	Brown Gray -VY LT	215	84	206	81	199	78
3031	Mocha Brown-VY DK	197	77	190	74	183	71
3032	Mocha Brown-MD	477	187	458	180	441	173
3033	Mocha Brown-VY LT	14	5	14	5	13	5
3052	Green Gray-MD	89	35	85	33	82	32
3053	Green Gray	20	8	19	8	19	7
3072	Beaver Gray-VY LT	248	97	239	93	230	90
3346	Hunter Green	68	27	66	26	63	25
3362	Pine Green-DK	125	49	120	47	116	45
3371	Black Brown	30	12	28	11	27	11
3713	Salmon-VY LT	134	53	129	51	124	49
3721	Shell Pink-DK	4	1	3	1	3	1
3743	Antique Violet-VY LT	30	12	28	11	27	11
3752	Antique Blue-VY LT	15	6	15	6	14	5
3753	Antique Blue-UL VY LT	26	10	25	10	24	9
3756	Baby Blue-UL VY LT	58	22	55	21	53	21
3770	Tawny -VY LT	131	51	126	49	121	47
3772	Desert Sand-VY DK	116	45	111	44	107	42
3774	Desert Sand-VY LT	68	27	66	26	63	25
3781	Mocha Brown-DK	244	96	235	92	226	89
3782	Mocha Brown-LT	109	42	105	41	101	39
3787	Brown Gray -DK	640	252	615	242	593	233
3790	Beige Gray-UL DK	395	156	380	150	366	144
3799	Pewter Gray -VY DK	3734	1470	3590	1413	3457	1361
3862	Mocha Beige-DK	218	86	210	82	202	79
3863	Mocha Beige-MD	247	97	237	93	229	90
3864	Mocha Beige-LT	215	84	207	81	199	78
3865	Winter White	482	189	463	182	446	175
3866	Mocha Brown-UL VY LT	192	75	184	72	177	69
ecru	Ecru	60	24	58	23	56	22

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	228	89	213	83	200	78
224	Shell Pink-VY LT	6	2	6	2	6	2
225	Shell Pink-UL VY LT	52	20	49	19	46	17
310	Black	6	2	6	2	6	2
317	Pewter Gray	39	15	36	14	34	13
318	Steel Gray-LT	9	3	8	3	8	3

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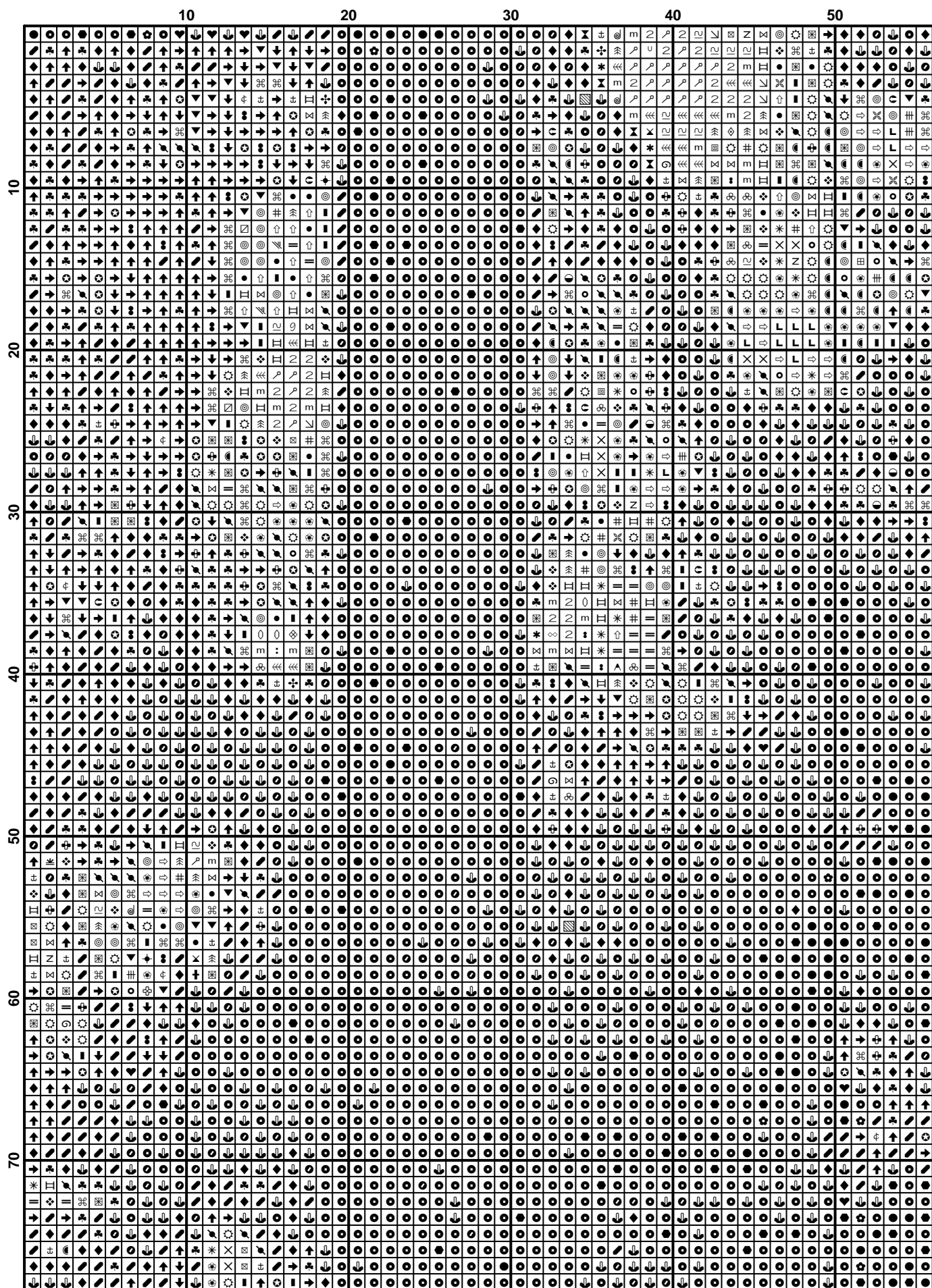
356	Terra Cotta-MD	8	3	7	2	7	2
370	Mustard-MD	7	3	7	2	6	2
371	Mustard	81	32	76	29	71	28
372	Mustard-LT	175	69	163	64	153	60
407	Desert Sand-DK	32	12	29	11	28	11
413	Pewter Gray -DK	257	101	239	94	224	88
415	Pearl Gray	69	27	65	25	61	24
451	Shell Gray-DK	10	4	10	4	9	3
453	Shell Gray-LT	167	66	156	61	146	57
500	Blue Green-VY DK	48	19	44	17	42	16
503	Blue Green-MD	4	1	4	1	3	1
522	Fern Green	75	29	70	27	65	25
523	Fern Green-LT	14	5	13	5	12	5
524	Fern Green-VY LT	504	198	470	185	441	173
535	Ash Gray -VY LT	116	46	109	43	102	40
543	Beige Brown-UL VY LT	87	34	81	32	76	30
610	Drab Brown-DK	194	76	181	71	170	66
611	Drab Brown	84	33	78	31	73	29
612	Drab Brown-LT	132	52	124	49	116	46
632	Desert Sand-UL VY DK	37	14	35	13	33	12
640	Beige Gray-VY DK	294	115	274	107	257	101
642	Beige Gray-DK	406	159	379	149	355	140
644	Beige Gray-MD	83	32	77	30	73	28
645	Beaver Gray-VY DK	226	89	211	83	198	78
646	Beaver Gray-DK	38	15	35	14	33	13
647	Beaver Gray-MD	129	51	121	47	113	44
648	Beaver Gray-LT	140	55	130	51	122	48
712	Cream	144	57	134	53	126	50
738	Tan-VY LT	12	5	11	4	10	4
746	Off White	241	95	225	88	211	83
754	Peach-LT	5	2	5	2	5	2
762	Pearl Gray-VY LT	70	27	65	25	61	24
775	Baby Blue-VY LT	14	5	13	5	12	5
819	Baby Pink-LT	71	28	66	26	62	24
822	Beige Gray-LT	78	30	73	28	68	26
839	Beige Brown-DK	298	117	278	109	261	102
840	Beige Brown-MD	224	88	209	82	196	77
842	Beige Brown-VY LT	183	71	170	67	160	62
844	Beaver Brown-UL DK	829	326	773	304	725	285
924	Gray Green-VY DK	330	130	308	121	289	114
926	Gray Green-MD	53	21	50	19	47	18
927	Gray Green-LT	73	28	68	26	64	25
928	Gray Green-VY LT	147	57	137	53	128	50
932	Antique Blue-LT	8	3	7	2	7	2
934	Black Avocado Green	2831	1114	2642	1040	2477	975
935	Avocado Green-DK	660	260	616	242	578	227
950	Desert Sand-LT	85	33	79	31	74	29
3011	Khaki Green-DK	8	3	7	2	7	2
3013	Khaki Green-LT	26	10	25	10	23	9
3021	Brown Gray -VY DK	1198	471	1118	440	1049	412
3022	Brown Gray -MD	249	98	233	91	218	86
3023	Brown Gray -LT	482	190	450	177	422	166
3024	Brown Gray -VY LT	192	75	179	70	168	66
3031	Mocha Brown-VY DK	176	69	164	64	154	60
3032	Mocha Brown-MD	426	167	397	156	372	146
3033	Mocha Brown-VY LT	13	5	12	4	11	4
3052	Green Gray-MD	79	31	74	29	69	27
3053	Green Gray	18	7	17	7	16	6
3072	Beaver Gray-VY LT	222	87	207	81	194	76

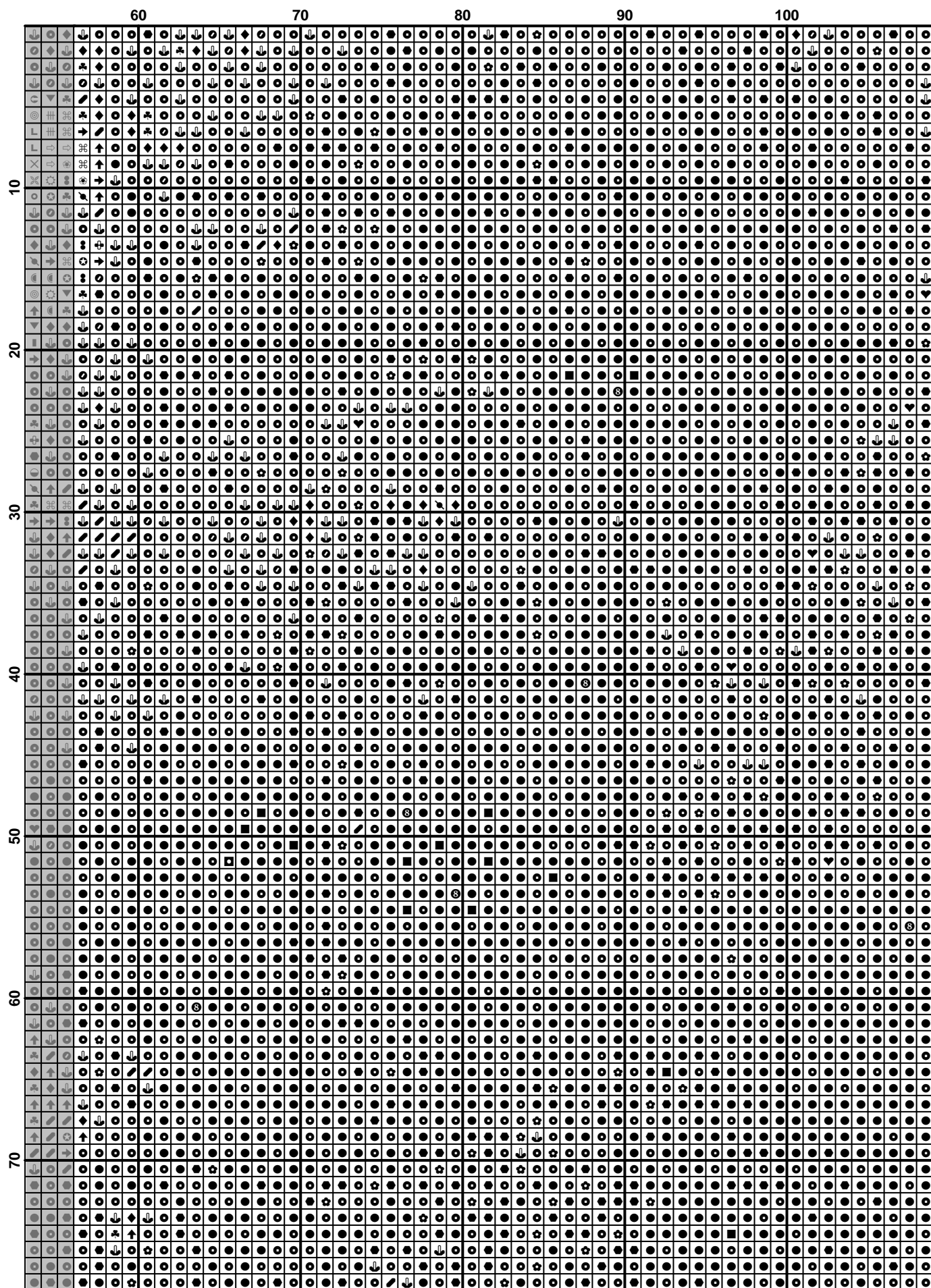
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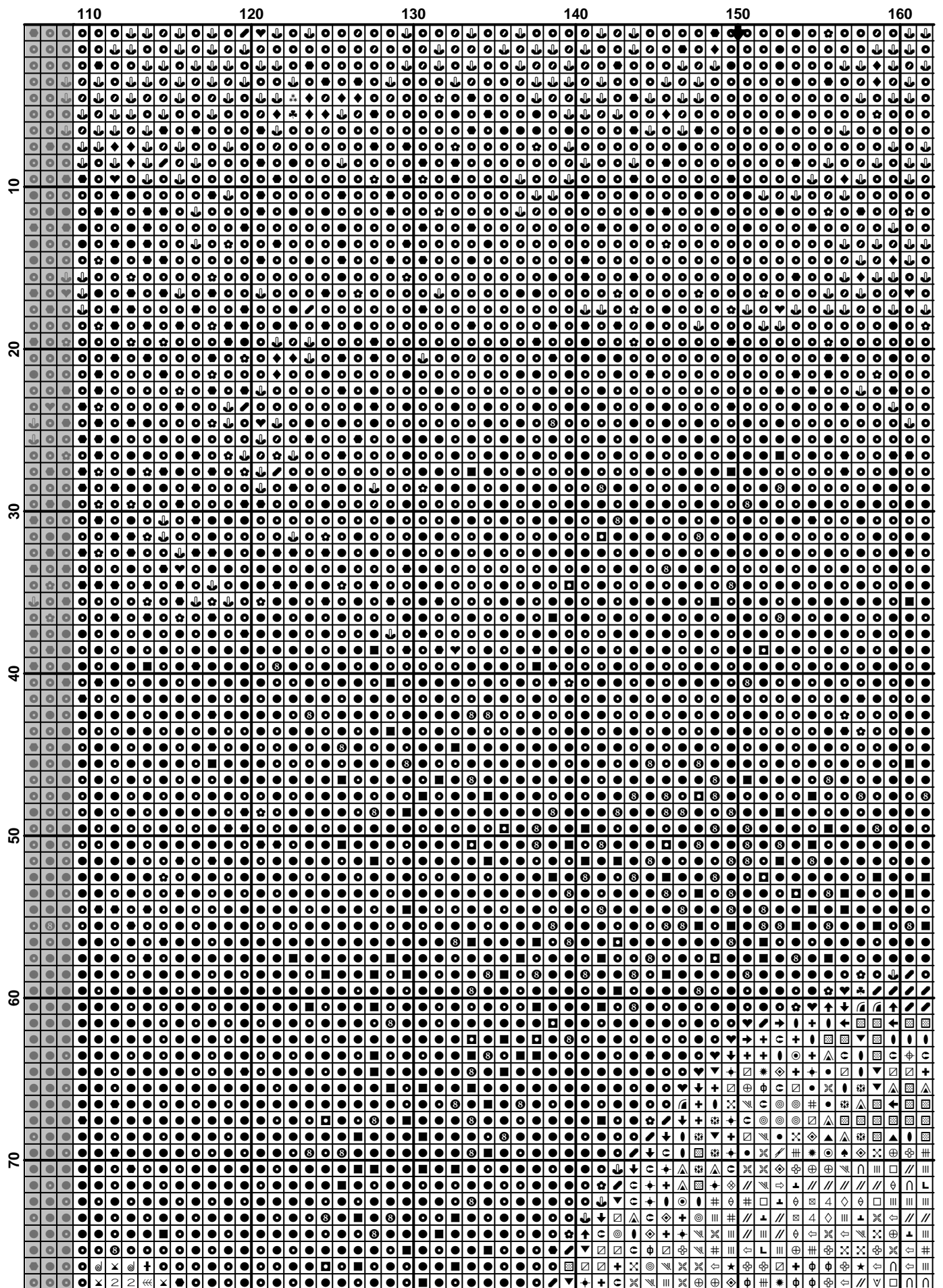
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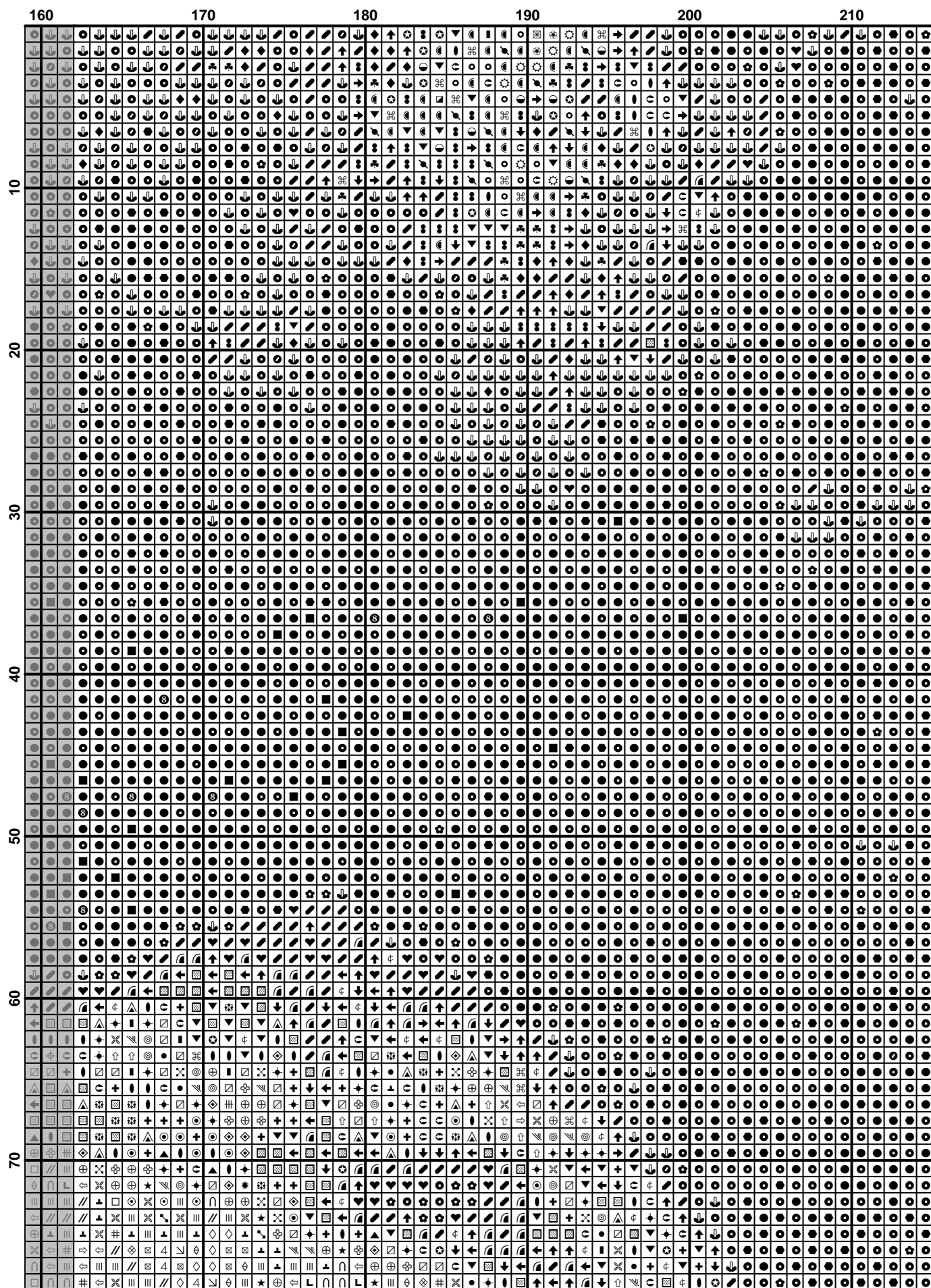
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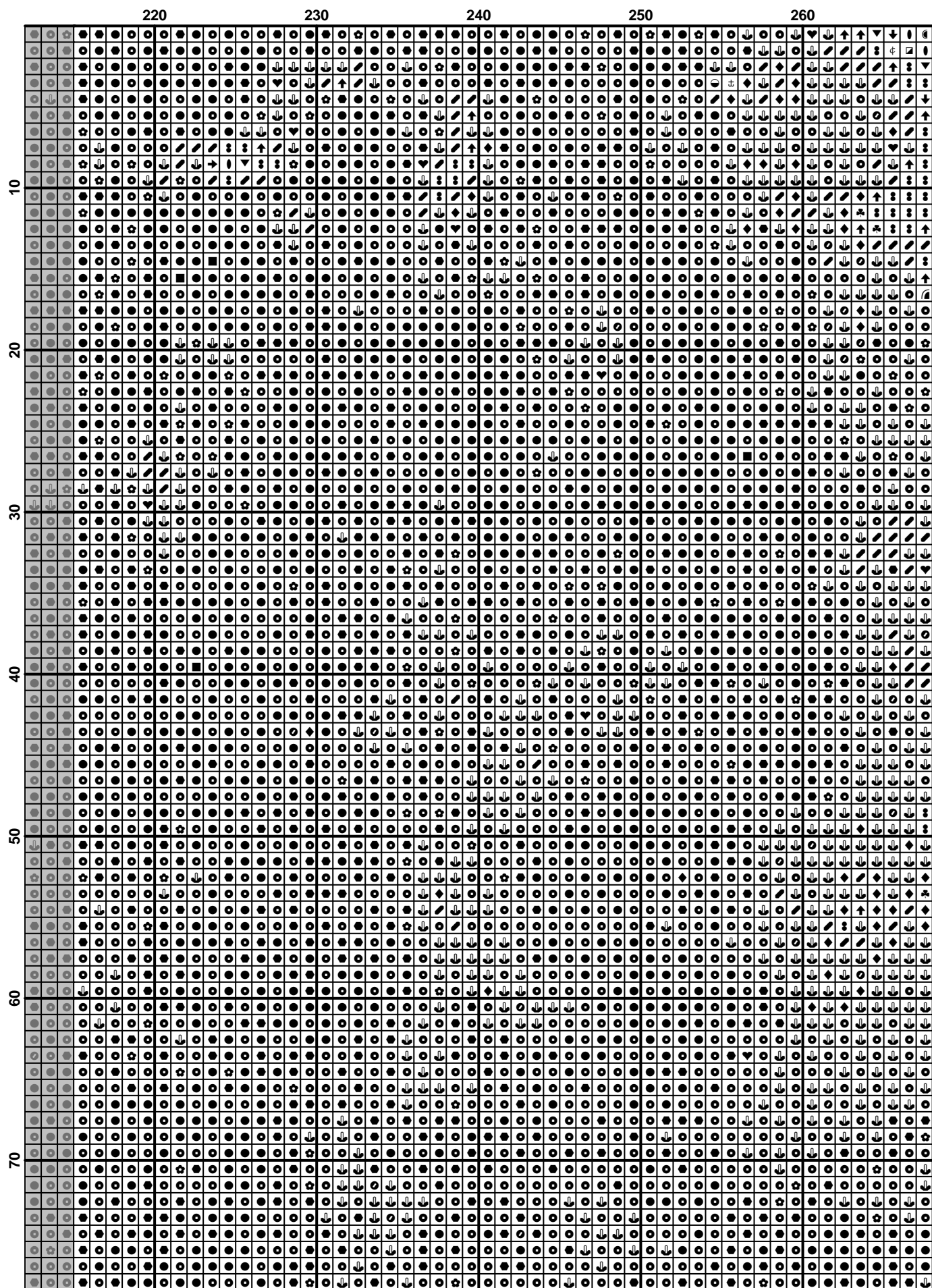
3346	Hunter Green	61	24	57	22	53	21
3362	Pine Green-DK	112	44	104	41	98	38
3371	Black Brown	26	10	25	10	23	9
3713	Salmon-VY LT	120	47	112	44	105	41
3721	Shell Pink-DK	3	1	3	1	3	1
3743	Antique Violet-VY LT	26	10	25	10	23	9
3752	Antique Blue-VY LT	14	5	13	5	12	5
3753	Antique Blue-UL VY LT	23	9	22	8	20	8
3756	Baby Blue-UL VY LT	51	20	48	19	45	17
3770	Tawny -VY LT	117	46	109	43	102	40
3772	Desert Sand-VY DK	104	41	97	38	91	35
3774	Desert Sand-VY LT	61	24	57	22	53	21
3781	Mocha Brown-DK	218	86	203	80	191	75
3782	Mocha Brown-LT	98	38	91	35	86	33
3787	Brown Gray -DK	572	225	533	210	500	197
3790	Beige Gray-UL DK	353	139	329	130	309	122
3799	Pewter Gray -VY DK	3334	1312	3112	1225	2917	1148
3862	Mocha Beige-DK	195	77	182	71	170	67
3863	Mocha Beige-MD	221	87	206	81	193	76
3864	Mocha Beige-LT	192	75	179	70	168	66
3865	Winter White	430	169	401	158	376	148
3866	Mocha Brown-UL VY LT	171	67	160	62	150	59
ecru	Ecru	54	21	50	20	47	19

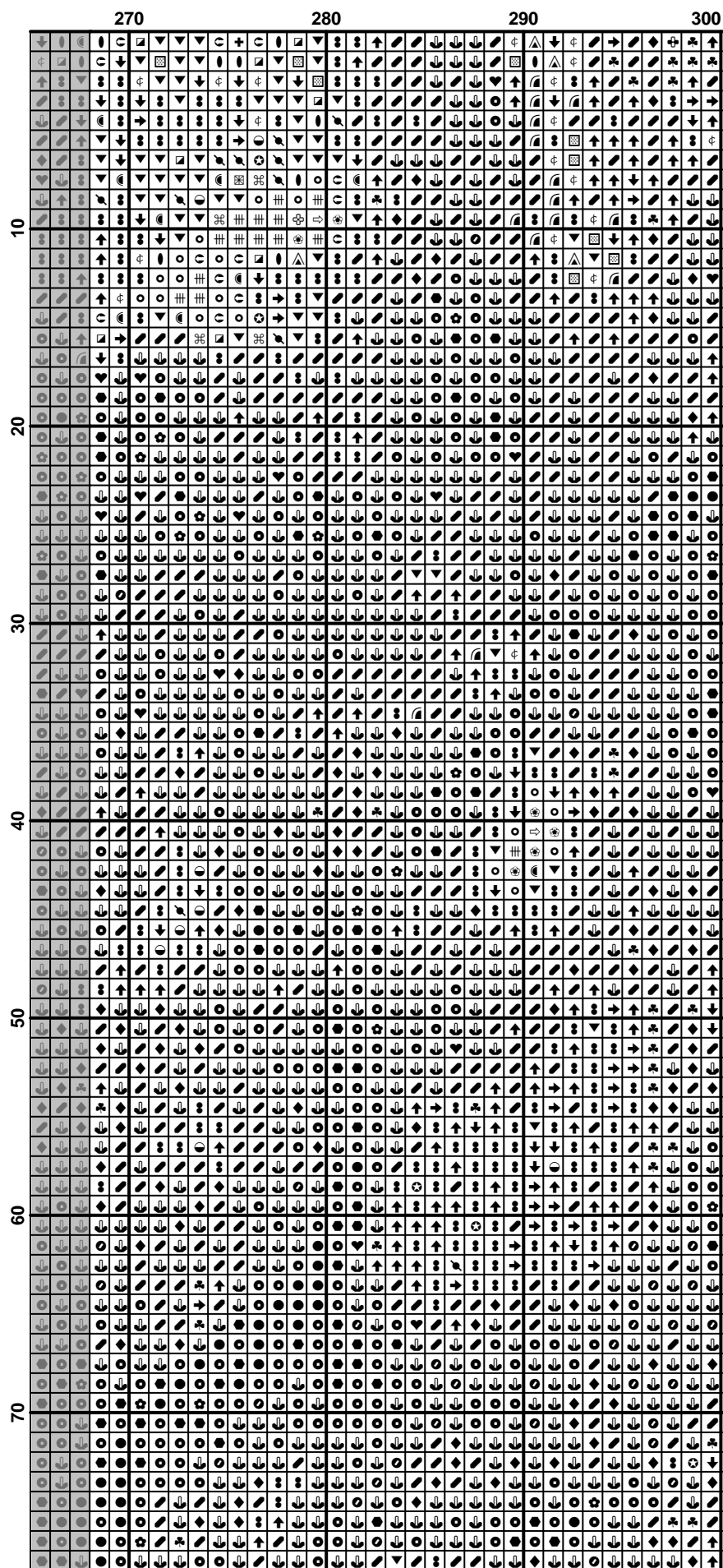


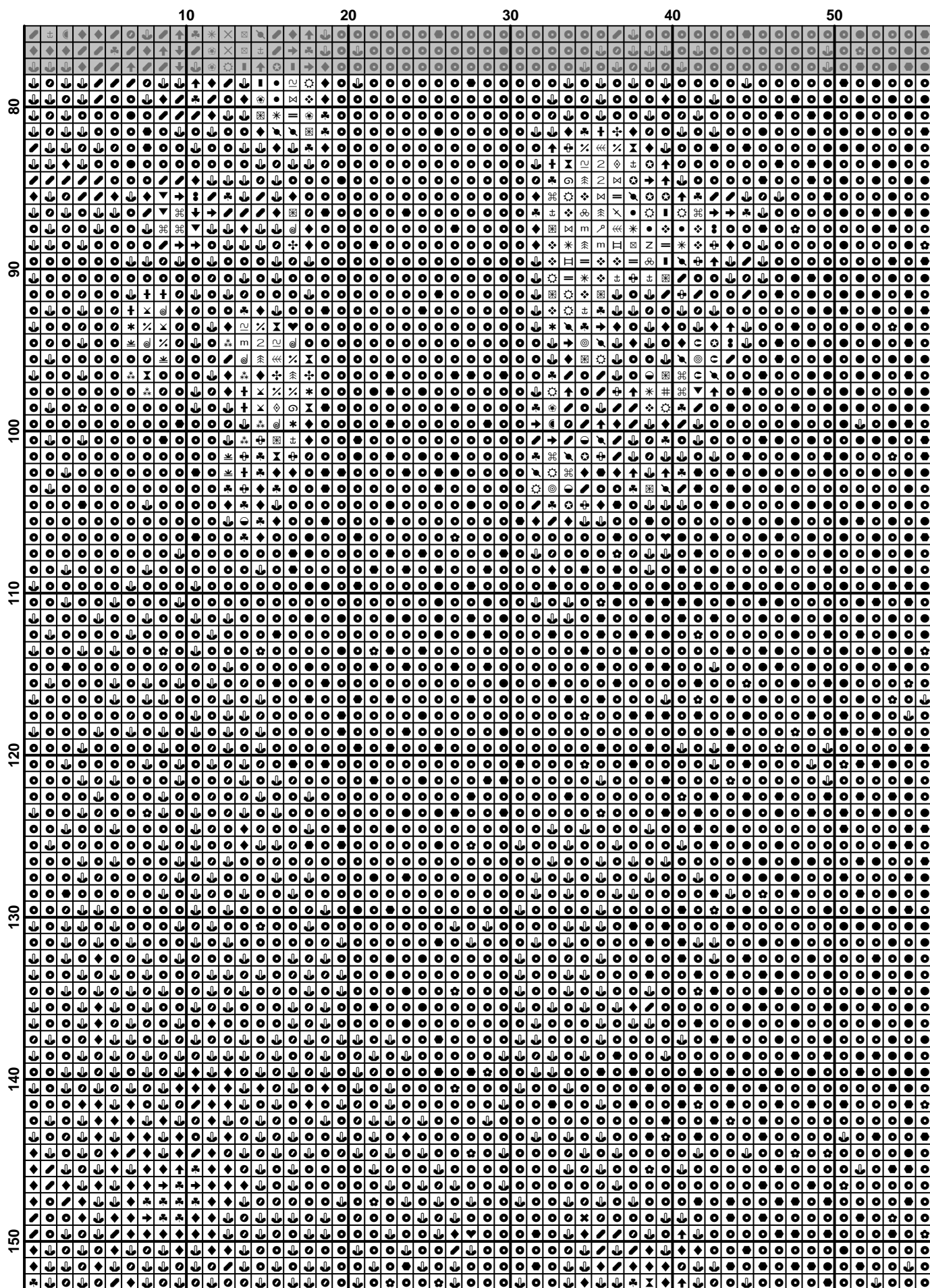


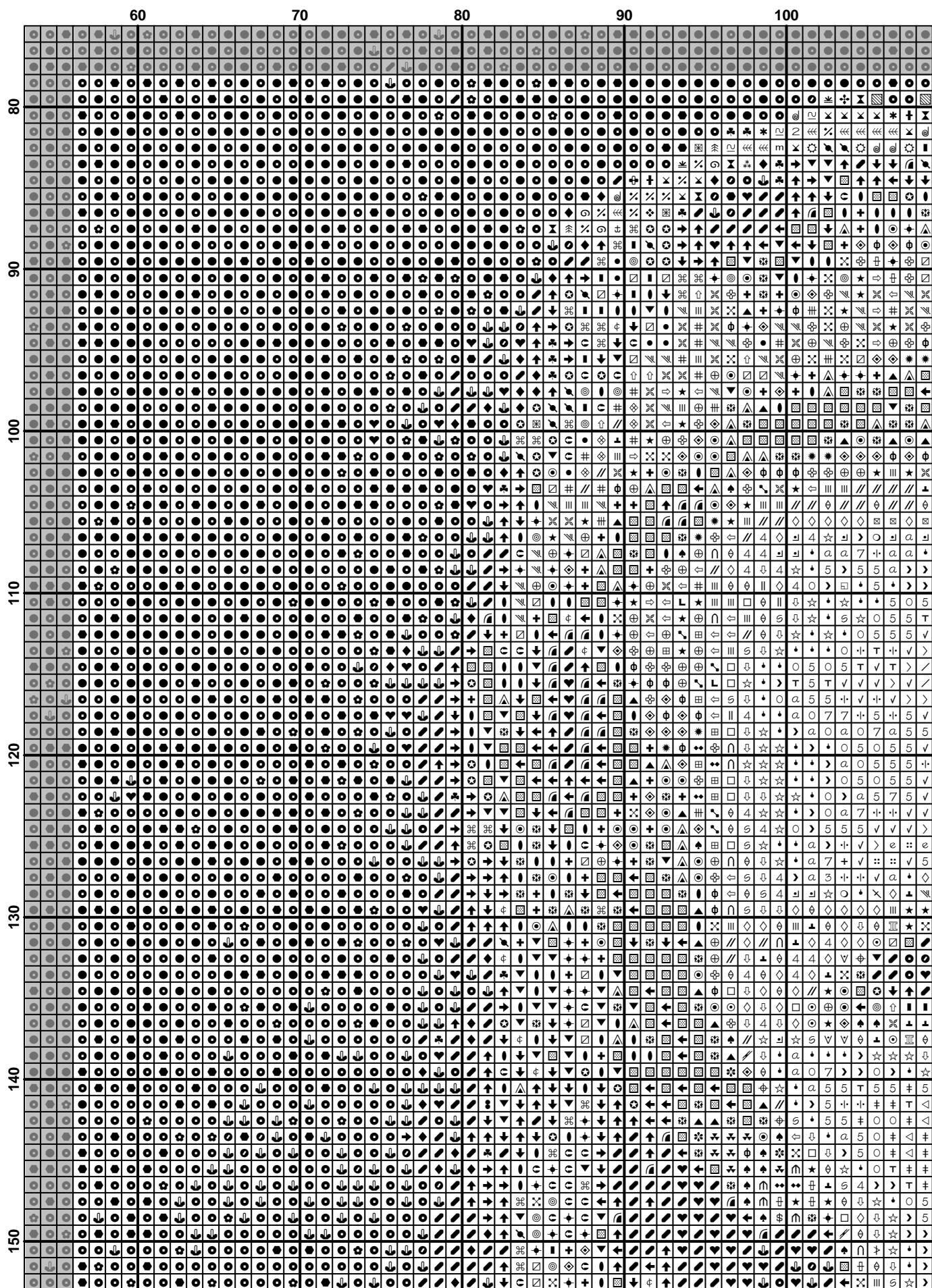




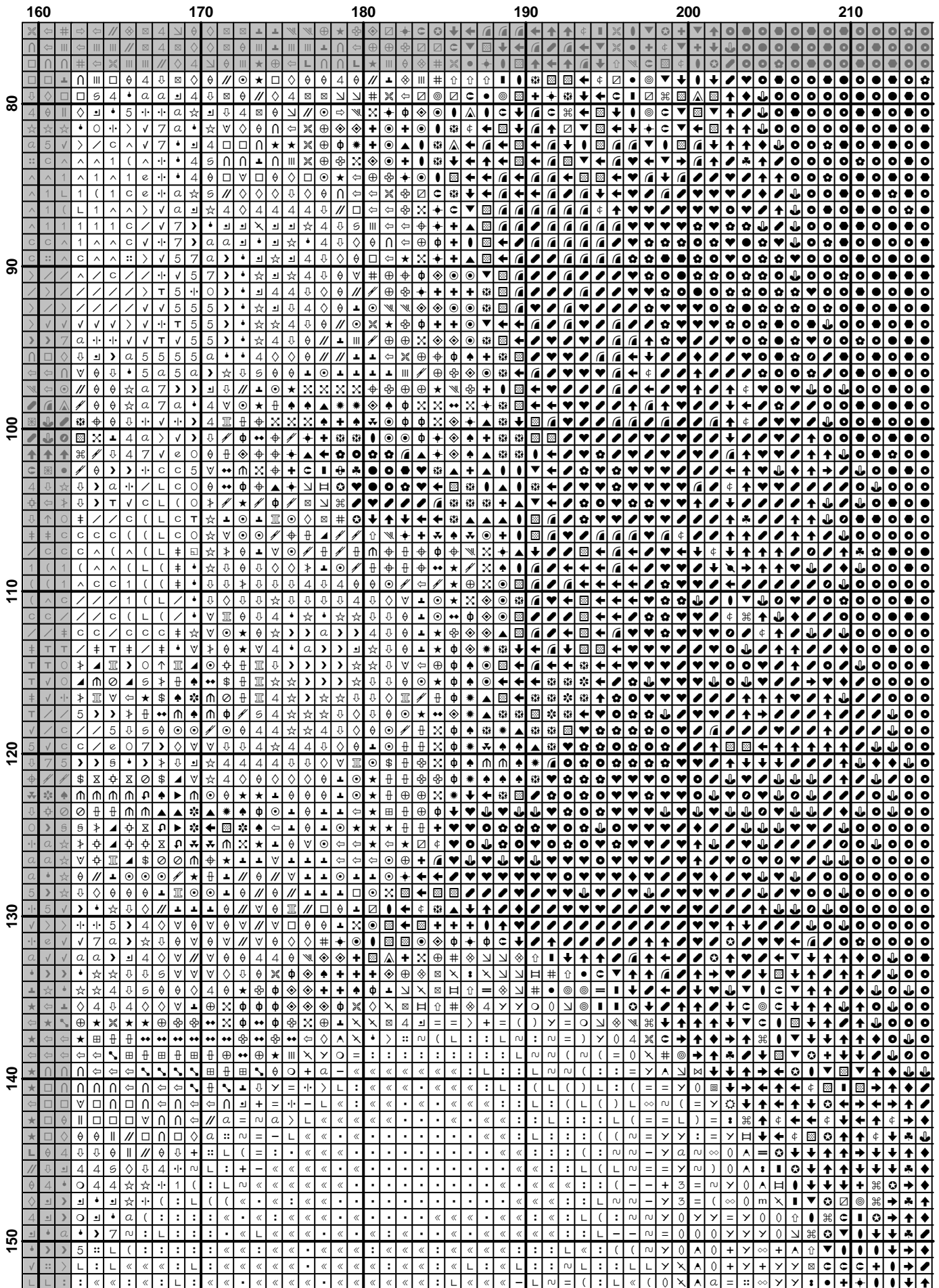


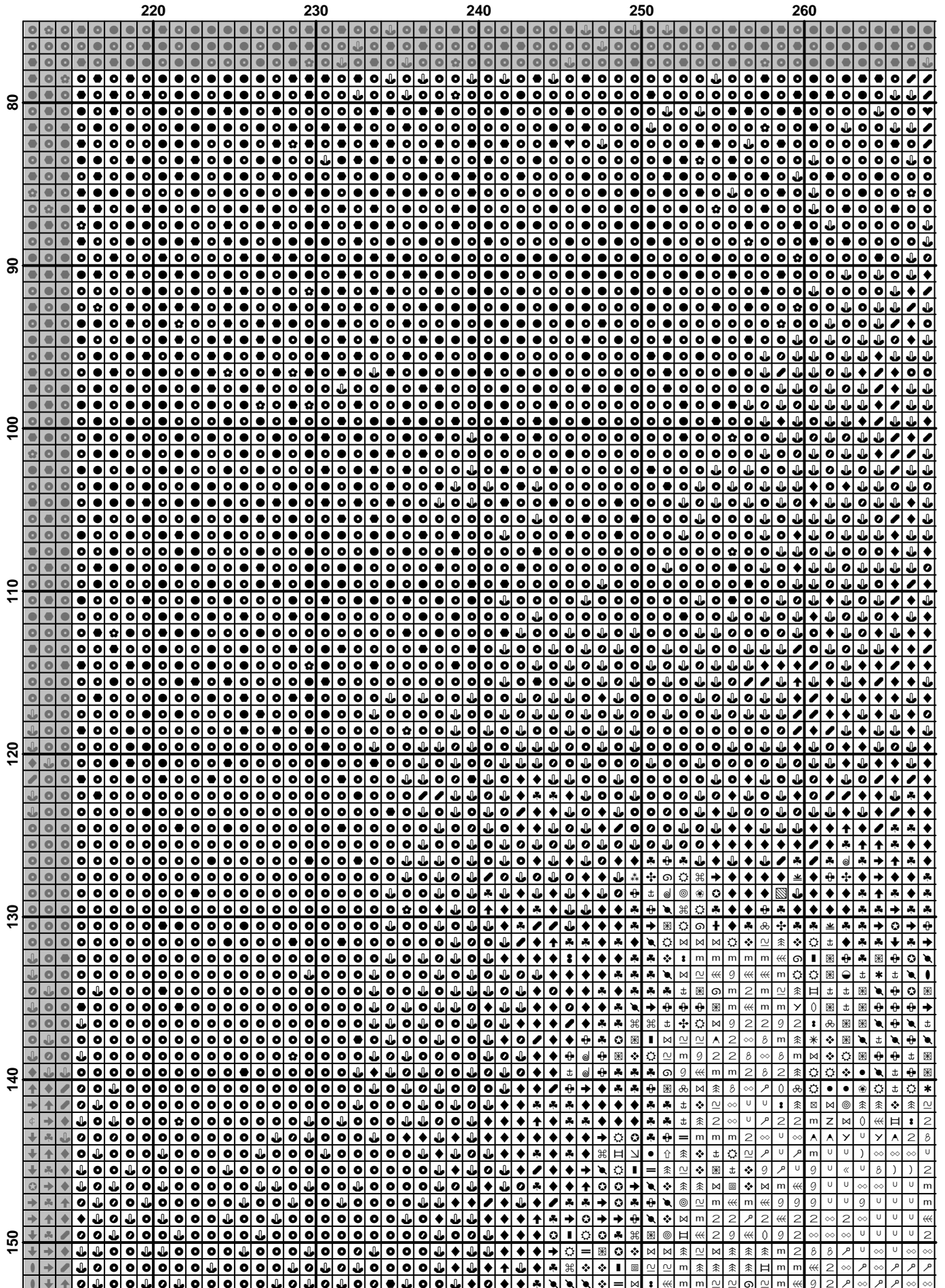


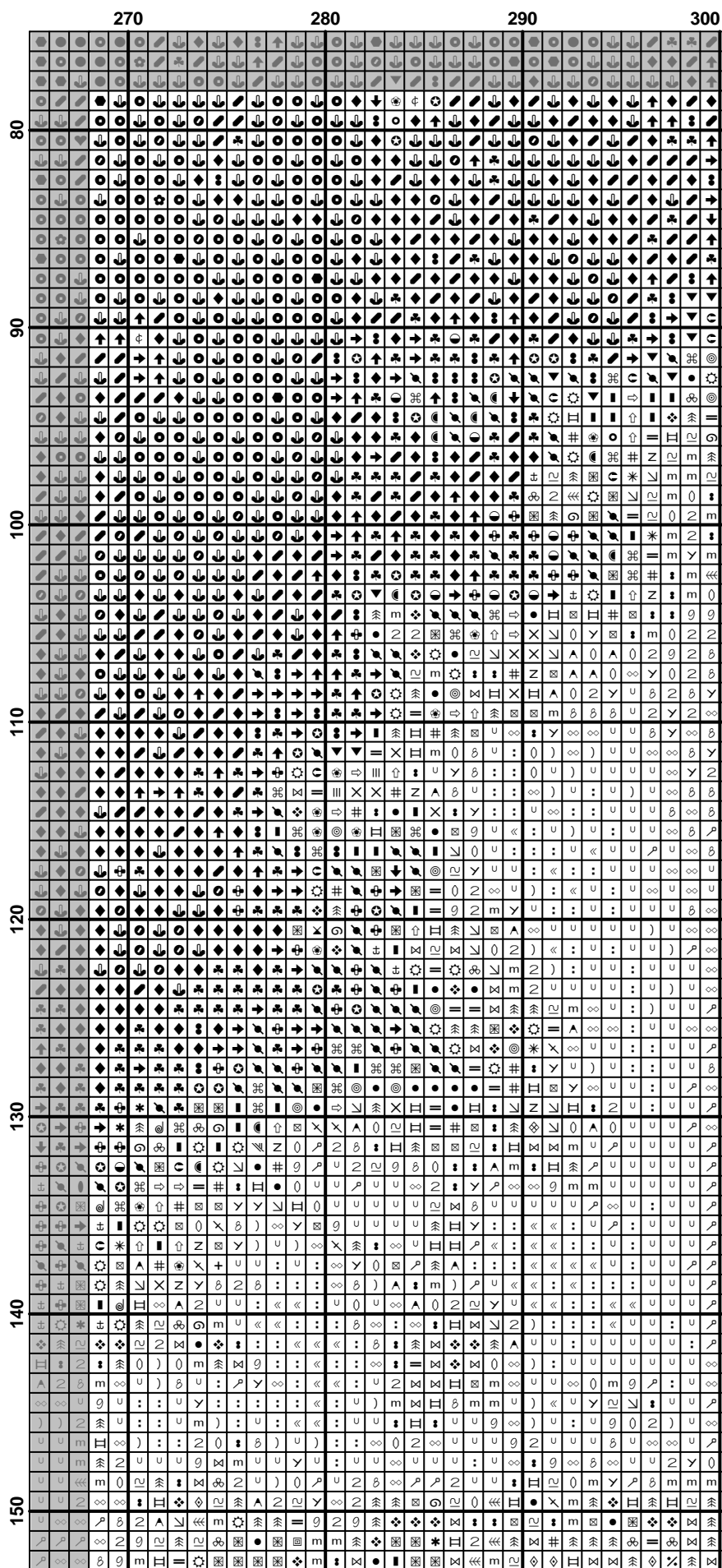


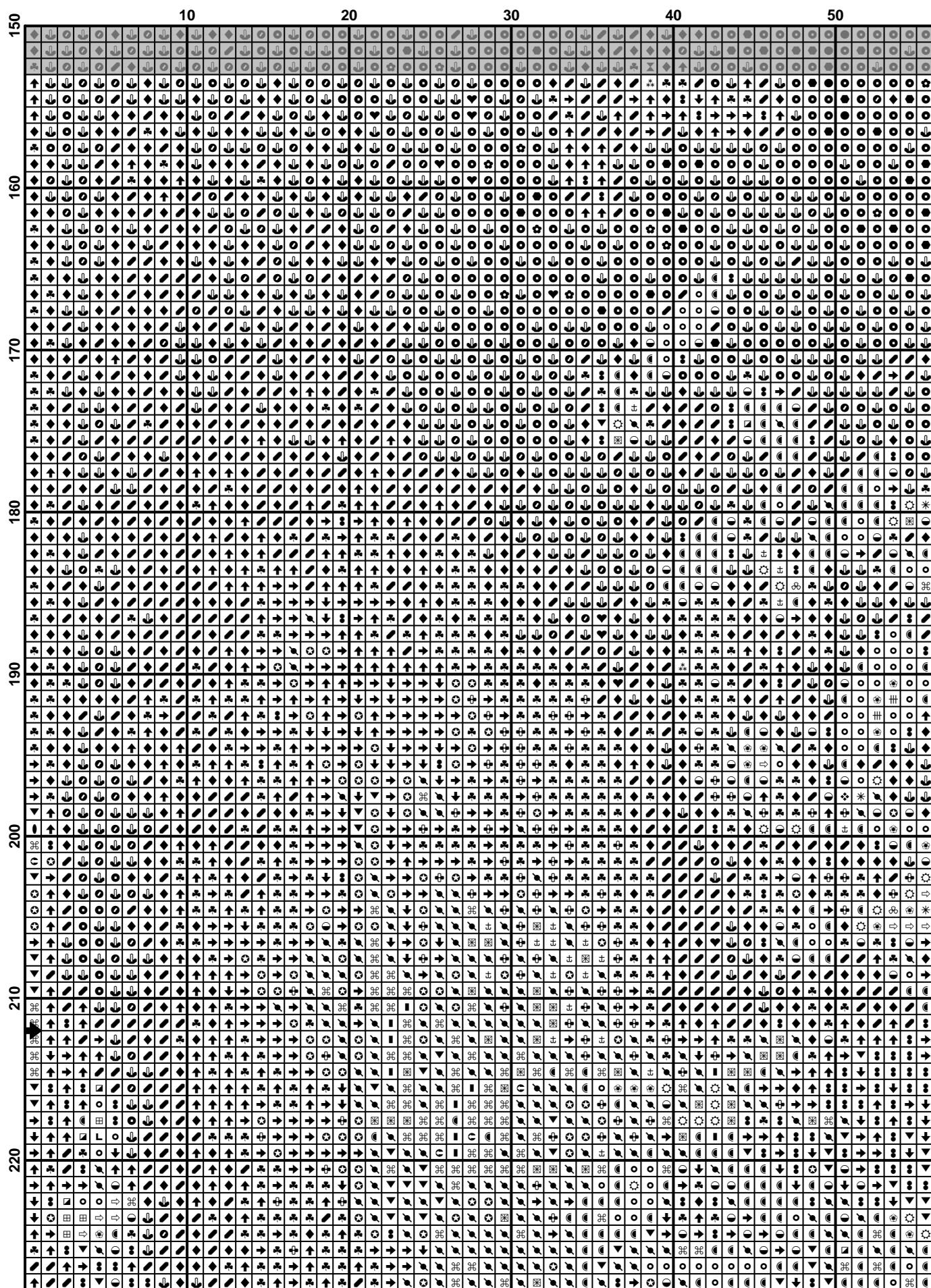


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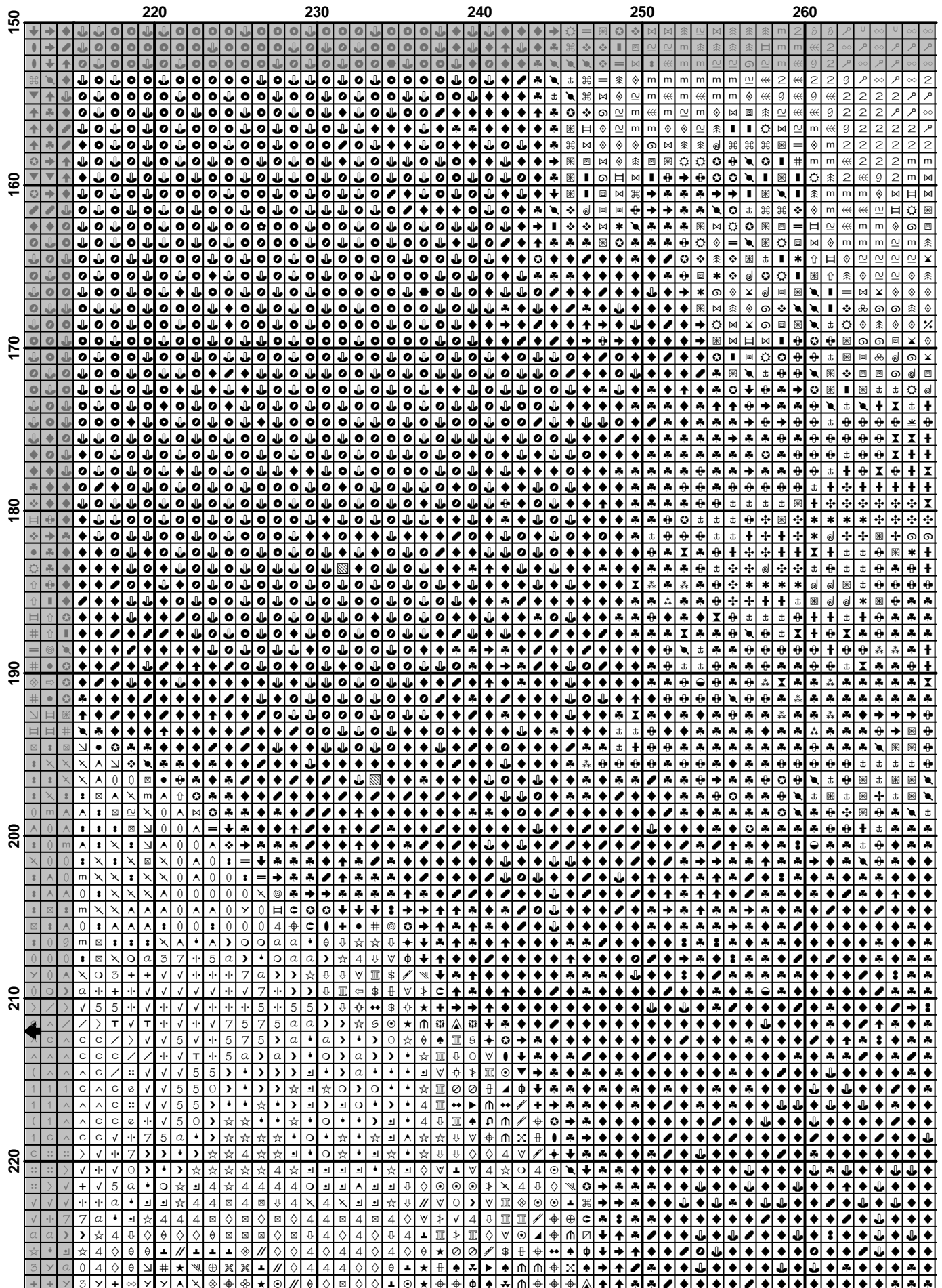


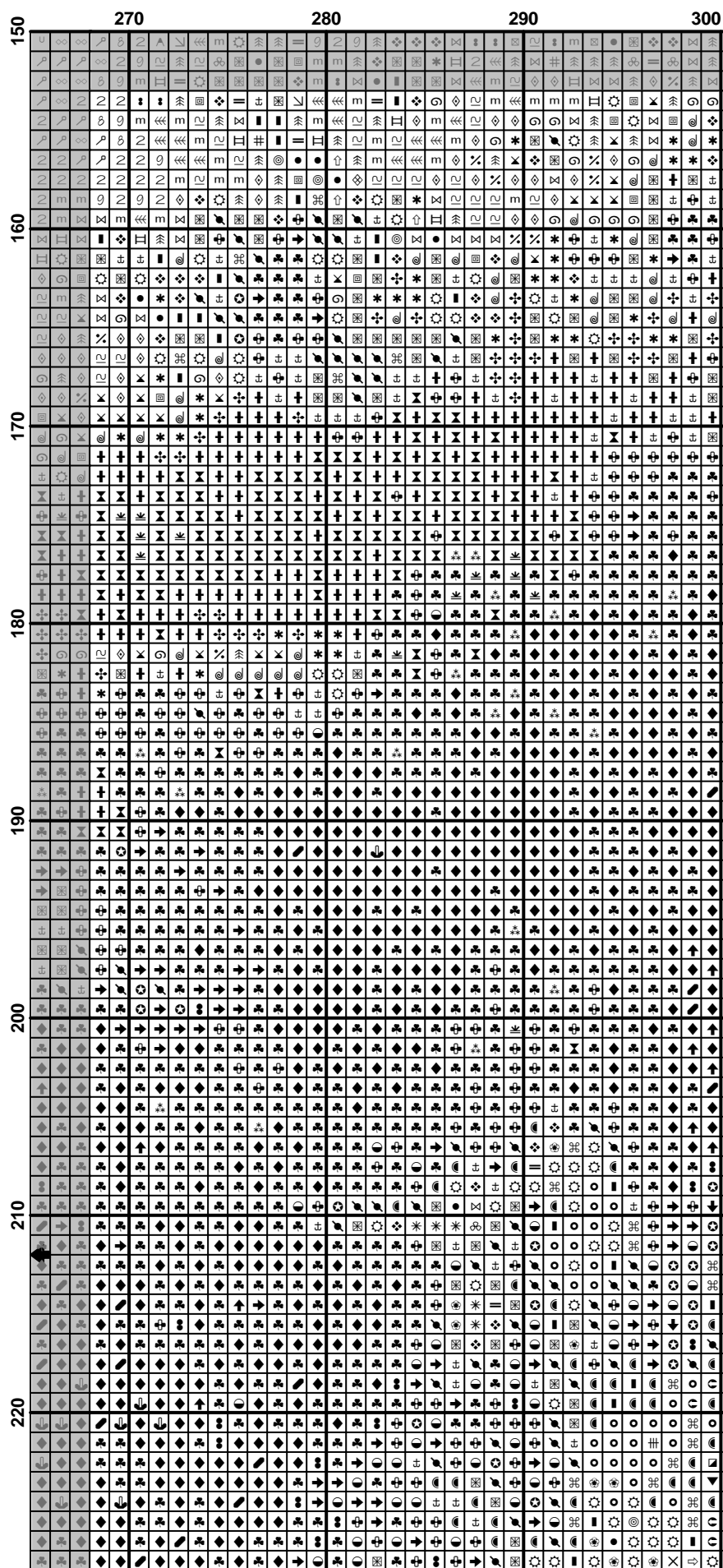


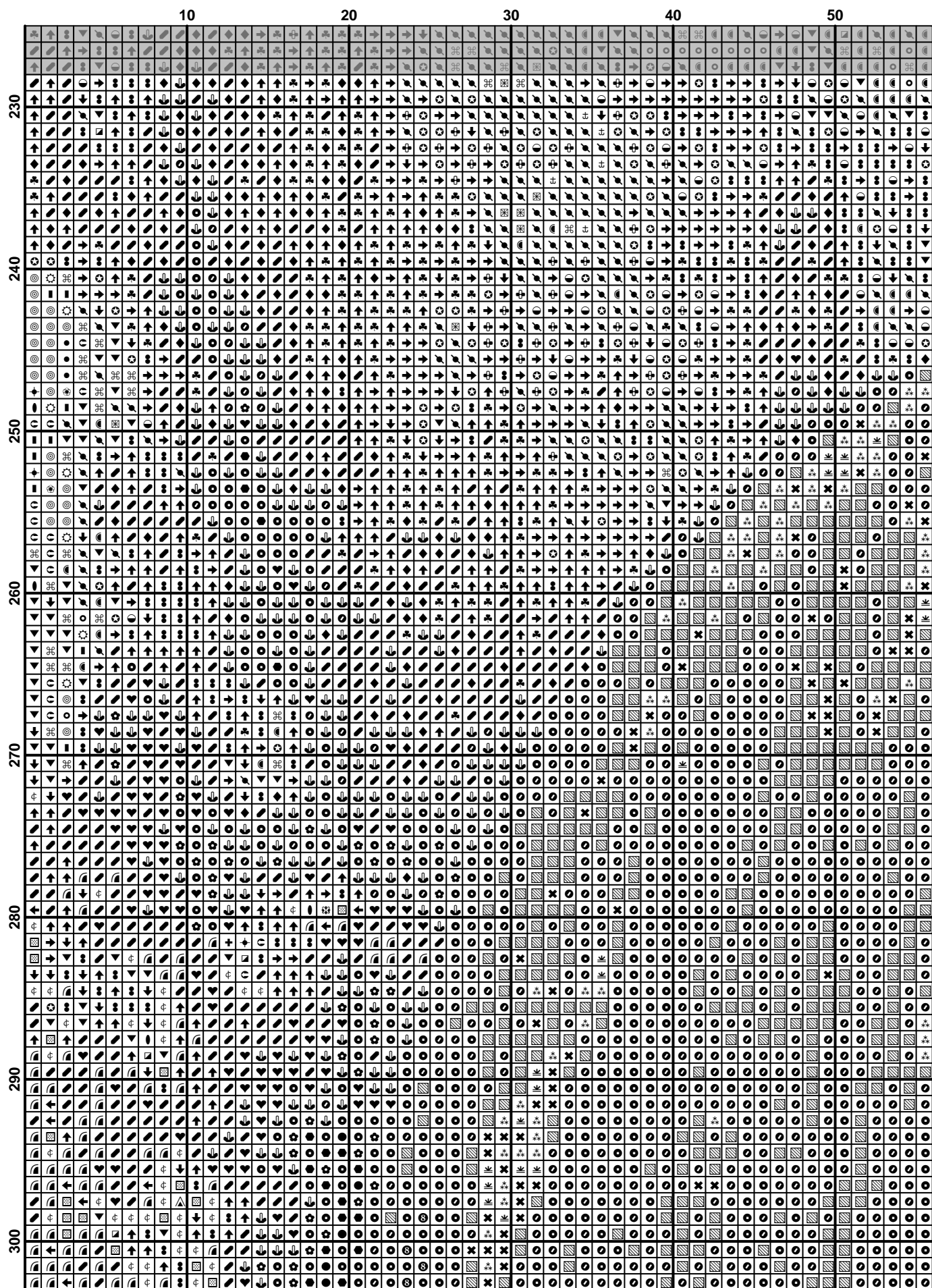
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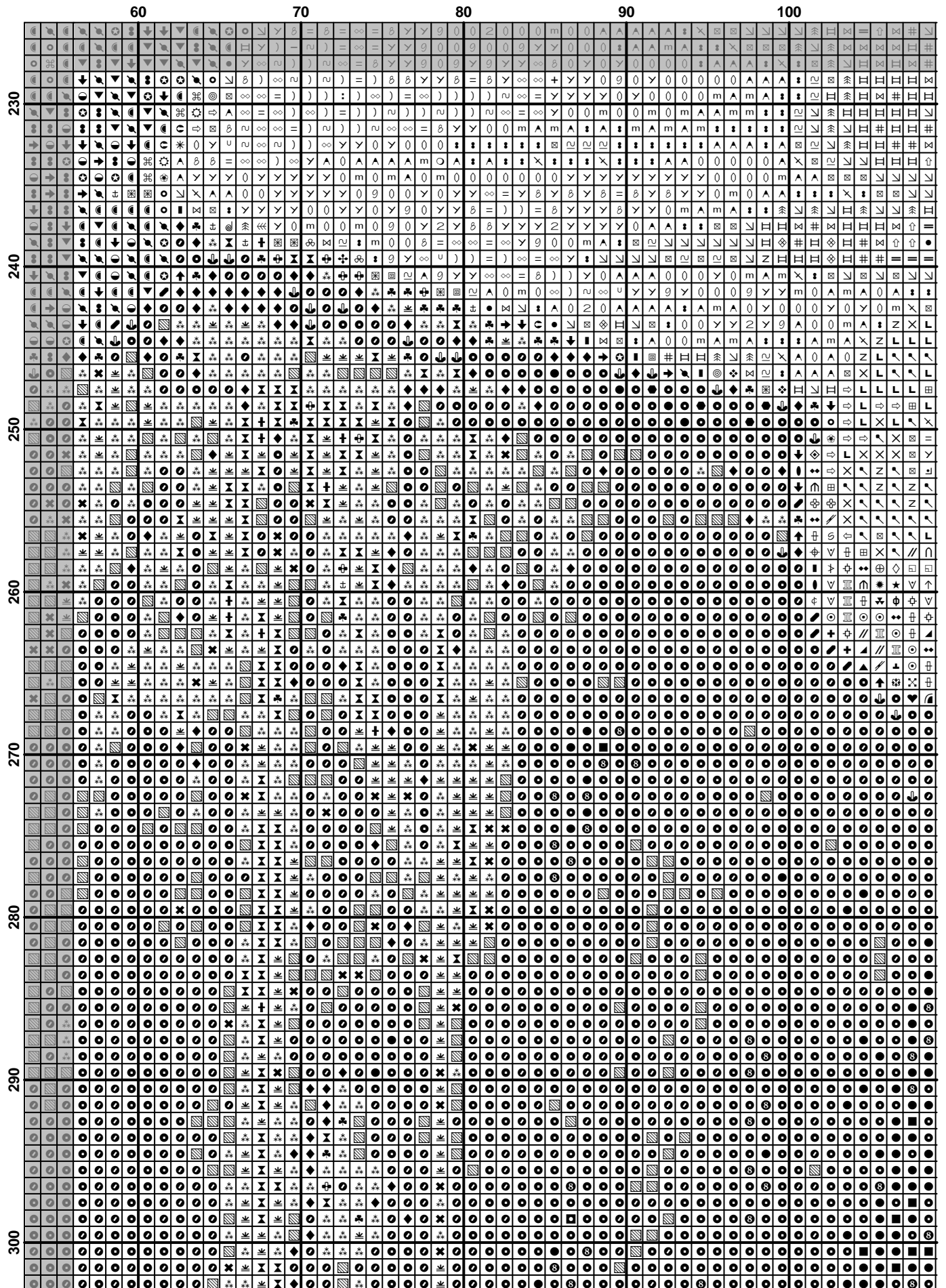
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190	☆	☆	☆	☆	☆	☆
200	☆	☆	☆	☆	☆	☆
210	☆	☆	☆	☆	☆	☆
220	☆	☆	☆	☆	☆	☆

150	160	170	180	190	200	210
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$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

	160	170	180	190	200	210
230	230	230	230	230	230	230
240	240	240	240	240	240	240
250	250	250	250	250	250	250
260	260	260	260	260	260	260
270	270	270	270	270	270	270
280	280	280	280	280	280	280
290	290	290	290	290	290	290
300	300	300	300	300	300	300

