

2176 Stag Beetle and a Toadstool



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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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Stag Beetle and a Toadstool

Stitch Count	
Horizontal:	227
Vertical:	299

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:	41	16.07	54	21.21	36	14.06	48	18.56	32	12.5	42	16.5
Including Margins:	57	23	70	28	52	21	64	25	48	19	58	23
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	57	22.49	75	29.69	47	18.74	63	24.74	23	9.37	31	12.37
Including Margins:	73	29	91	36	63	25	79	31	39	16	47	19
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	22	8.99	30	11.87	22	8.65	29	11.42	21	8.33	28	10.99
Including Margins:	38	15	46	18	38	15	45	18	37	15	44	17
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	20	8.03	27	10.6	19	7.49	25	9.89	17	7.03	23	9.27
Including Margins:	36	15	43	17	35	14	41	16	33	14	39	16

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

Symbol	DMC	Name
♣	221	Shell Pink-VY DK
=	223	Shell Pink-LT
♡	224	Shell Pink-VY LT
♣	300	Mahogany-VY DK
♣	304	Christmas Red-MD
■	355	Terra Cotta-DK
#	356	Terra Cotta-MD
♣	370	Mustard-MD
♣	371	Mustard
♣	400	Mahogany-DK
♣	407	Desert Sand-DK
♣	420	Hazelnut Brown-DK
⇒	422	Hazelnut Brown-LT
▨	433	Brown-MD
♣	434	Brown-LT
:	437	Tan-LT
♣	451	Shell Gray-DK
♣	452	Shell Gray-MD
•	453	Shell Gray-LT
♣	498	Christmas Red-DK
✱	535	Ash Gray-VY LT
↑	543	Beige Brown-UL VY LT
⦿	610	Drab Brown-DK
♣	611	Drab Brown
♣	612	Drab Brown-LT
>	613	Drab Brown-VY LT
⦿	640	Beige Gray-VY DK
<	644	Beige Gray-MD
♣	645	Beaver Gray-VY DK
♣	646	Beaver Gray-DK
♣	647	Beaver Gray-MD
♣	680	Old Gold-DK
♣	730	Olive Green-VY DK
▷	738	Tan-VY LT
^	739	Tan-UL VY LT
L	758	Terra Cotta-VY LT
↓	801	Coffee Brown-DK
↑	815	Garnet-MD
♣	816	Garnet
u	819	Baby Pink-LT
♣	829	Golden Olive-VY DK
♣	830	Golden Olive-DK
♣	831	Golden Olive-MD
♣	832	Golden Olive
e	833	Golden Olive-LT
+	844	Beaver Brown-UL DK
⌋	869	Hazelnut Brown-VY DK
✕	898	Coffee Brown-VY DK
♣	918	Red Copper-DK
♣	919	Red Copper
♣	920	Copper-MD
\$	921	Copper
9	927	Gray Green-LT

○	928	Gray Green-VY LT
☉	938	Coffee Brown-UL DK
π	948	Peach-VY LT
✦	3011	Khaki Green-DK
×	3012	Khaki Green-MD
←	3021	Brown Gray-VY DK
✓	3022	Brown Gray-MD
●	3031	Mocha Brown-VY DK
⋈	3032	Mocha Brown-MD
◇	3045	Yellow Beige-DK
■	3051	Green Gray-DK
▣	3064	Desert Sand
◦	3072	Beaver Gray-VY LT
~	3713	Salmon-VY LT
1	3756	Baby Blue-UL VY LT
⌘	3772	Desert Sand-VY DK
○	3776	Mahogany-LT
▲	3777	Terra Cotta-VY DK
⊠	3778	Terra Cotta-LT
●	3781	Mocha Brown-DK
♢	3782	Mocha Brown-LT
⌞	3787	Brown Gray-DK
*	3790	Beige Gray-UL DK
7	3828	Hazelnut Brown
⌘	3829	Old Gold-VY DK
⊕	3830	Terra Cotta-MD
✕	3857	Rosewood-DK
*	3858	Rosewood-MD
m	3861	Cocoa-LT
◊	3866	Mocha Brown-UL VY LT

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
⊕	223	Shell Pink-LT	3032	Mocha Brown-MD
●	300	Mahogany-VY DK	400	Mahogany-DK
⊠	300	Mahogany-VY DK	632	Desert Sand-UL VY DK
●	300	Mahogany-VY DK	815	Garnet-MD
◆	300	Mahogany-VY DK	938	Coffee Brown-UL DK
●	301	Mahogany-MD	435	Brown-VY LT
✕	301	Mahogany-MD	975	Golden Brown-DK
■	310	Black	500	Blue Green-VY DK
●	310	Black	935	Avocado Green-DK
■	310	Black	938	Coffee Brown-UL DK
×	315	Antique Mauve-VY DK	3772	Desert Sand-VY DK
✦	315	Antique Mauve-VY DK	3860	Cocoa
⌘	347	Salmon-VY DK	919	Red Copper
⊕	347	Salmon-VY DK	921	Copper
★	355	Terra Cotta-DK	3830	Terra Cotta-MD
▲	356	Terra Cotta-MD	3772	Desert Sand-VY DK
..	370	Mustard-MD	435	Brown-VY LT
☆	370	Mustard-MD	612	Drab Brown-LT
—	370	Mustard-MD	3828	Hazelnut Brown
↑	371	Mustard	3052	Green Gray-MD

／	372	Mustard-LT	612	Drab Brown-LT
≡	414	Steel Gray-DK	452	Shell Gray-MD
+	414	Steel Gray-DK	927	Gray Green-LT
□	415	Pearl Gray	3072	Beaver Gray-VY LT
⊗	420	Hazelnut Brown-DK	780	Topaz-UL VY DK
↘	420	Hazelnut Brown-DK	830	Golden Olive-DK
⊞	420	Hazelnut Brown-DK	832	Golden Olive
⊞	420	Hazelnut Brown-DK	869	Hazelnut Brown-VY DK
⊞	420	Hazelnut Brown-DK	3012	Khaki Green-MD
⊞	420	Hazelnut Brown-DK	3863	Mocha Beige-MD
5	422	Hazelnut Brown-LT	3012	Khaki Green-MD
⊞	422	Hazelnut Brown-LT	3782	Mocha Brown-LT
◀	433	Brown-MD	830	Golden Olive-DK
▶	433	Brown-MD	869	Hazelnut Brown-VY DK
↔	434	Brown-LT	975	Golden Brown-DK
⋈	435	Brown-VY LT	632	Desert Sand-UL VY DK
⋈	435	Brown-VY LT	680	Old Gold-DK
	435	Brown-VY LT	3776	Mahogany-LT
∩	435	Brown-VY LT	3830	Terra Cotta-MD
△	436	Tan	3827	Golden Brown-Pale
::	451	Shell Gray-DK	647	Beaver Gray-MD
✕	451	Shell Gray-DK	926	Gray Green-MD
↘	451	Shell Gray-DK	3860	Cocoa
∅	452	Shell Gray-MD	524	Fern Green-VY LT
α	452	Shell Gray-MD	927	Gray Green-LT
)	453	Shell Gray-LT	778	Antique Mauve-VY LT
4	524	Fern Green-VY LT	647	Beaver Gray-MD
⊞	535	Ash Gray-VY LT	839	Beige Brown-DK
➤	610	Drab Brown-DK	611	Drab Brown
⊞	610	Drab Brown-DK	3781	Mocha Brown-DK
⊞	611	Drab Brown	3011	Khaki Green-DK
⊞	611	Drab Brown	3787	Brown Gray-DK
⊞	611	Drab Brown	3790	Beige Gray-UL DK
?	612	Drab Brown-LT	3032	Mocha Brown-MD
2	612	Drab Brown-LT	3772	Desert Sand-VY DK
(	613	Drab Brown-VY LT	677	Old Gold-VY LT
◇	632	Desert Sand-UL VY DK	3830	Terra Cotta-MD
∇	640	Beige Gray-VY DK	642	Beige Gray-DK
⊞	640	Beige Gray-VY DK	3860	Cocoa
↘	645	Beaver Gray-VY DK	646	Beaver Gray-DK
⊞	645	Beaver Gray-VY DK	3787	Brown Gray-DK
↘	645	Beaver Gray-VY DK	3860	Cocoa
√	680	Old Gold-DK	833	Golden Olive-LT
«	712	Cream	762	Pearl Gray-VY LT
♠	730	Olive Green-VY DK	3781	Mocha Brown-DK
	739	Tan-UL VY LT	842	Beige Brown-VY LT
∞	754	Peach-LT	948	Peach-VY LT
∇	778	Antique Mauve-VY LT	928	Gray Green-VY LT
▲	780	Topaz-UL VY DK	975	Golden Brown-DK
♣	829	Golden Olive-VY DK	898	Coffee Brown-VY DK
⊞	831	Golden Olive-MD	832	Golden Olive
◀	831	Golden Olive-MD	3862	Mocha Beige-DK
6	834	Golden Olive-VY LT	3045	Yellow Beige-DK
■	839	Beige Brown-DK	869	Hazelnut Brown-VY DK
▸	839	Beige Brown-DK	3011	Khaki Green-DK
⊞	839	Beige Brown-DK	3021	Brown Gray-VY DK
●	839	Beige Brown-DK	3787	Brown Gray-DK
⊞	839	Beige Brown-DK	3802	Antique Mauve-VY DK
H	840	Beige Brown-MD	3032	Mocha Brown-MD

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▼	844	Beaver Brown-UL DK	3021	Brown Gray-VY DK
≡	844	Beaver Brown-UL DK	3787	Brown Gray-DK
■	898	Coffee Brown-VY DK	3781	Mocha Brown-DK
L	919	Red Copper	921	Copper
∅	920	Copper-MD	921	Copper
X	920	Copper-MD	3776	Mahogany-LT
⊖	921	Copper	3776	Mahogany-LT
±	927	Gray Green-LT	928	Gray Green-VY LT
●	934	Black Avocado Green	3031	Mocha Brown-VY DK
↖	936	Avocado Green-VY DK	3021	Brown Gray-VY DK
➔	936	Avocado Green-VY DK	3031	Mocha Brown-VY DK
♥	936	Avocado Green-VY DK	3371	Black Brown
☞	938	Coffee Brown-UL DK	3857	Rosewood-DK
⚙	3011	Khaki Green-DK	3051	Green Gray-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	3051	Green Gray-DK
⚙	3021	Brown Gray-VY DK	3371	Black Brown
⚙	3021	Brown Gray-VY DK	3860	Cocoa
⚙	3721	Shell Pink-DK	3858	Rosewood-MD
⚙	3721	Shell Pink-DK	3863	Mocha Beige-MD
Z	3726	Antique Mauve-DK	3860	Cocoa
↘	3726	Antique Mauve-DK	3861	Cocoa-LT
☑	3772	Desert Sand-VY DK	3830	Terra Cotta-MD
⊖	3826	Golden Brown	3829	Old Gold-VY DK
≡	3860	Cocoa	3861	Cocoa-LT

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	
221	Shell Pink-VY DK	69	27	66	25	60	23
223	Shell Pink-LT	18	7	17	6	15	5
224	Shell Pink-VY LT	11	4	10	3	9	3
300	Mahogany-VY DK	222	87	211	83	190	74
301	Mahogany-MD	28	11	27	10	24	9
304	Christmas Red-MD	41	16	39	15	35	13
310	Black	170	66	162	63	146	57
315	Antique Mauve-VY DK	35	13	33	12	30	11
347	Salmon-VY DK	139	54	133	52	119	46
355	Terra Cotta-DK	140	55	133	52	120	47
356	Terra Cotta-MD	29	11	28	11	25	9
370	Mustard-MD	245	96	233	91	210	82
371	Mustard	126	49	120	47	108	42
372	Mustard-LT	79	31	75	29	67	26
400	Mahogany-DK	59	23	56	22	51	20
407	Desert Sand-DK	15	5	14	5	13	5
414	Steel Gray-DK	48	18	45	17	41	16
415	Pearl Gray	3	1	3	1	3	1
420	Hazelnut Brown-DK	462	181	440	173	396	155
422	Hazelnut Brown-LT	125	49	119	46	107	42
433	Brown-MD	344	135	327	128	295	116
434	Brown-LT	123	48	117	46	106	41
435	Brown-VY LT	170	66	162	63	146	57
436	Tan	3	1	3	1	3	1
437	Tan-LT	8	3	8	3	7	2
451	Shell Gray-DK	148	58	141	55	127	50
452	Shell Gray-MD	113	44	108	42	97	38
453	Shell Gray-LT	37	14	36	14	32	12
498	Christmas Red-DK	62	24	59	23	53	20
500	Blue Green-VY DK	34	13	32	12	29	11
524	Fern Green-VY LT	29	11	28	11	25	9
535	Ash Gray-VY LT	32	12	31	12	28	11
543	Beige Brown-UL VY LT	66	25	63	24	56	22
610	Drab Brown-DK	435	171	414	162	373	146
611	Drab Brown	486	191	463	182	416	163
612	Drab Brown-LT	211	83	201	79	181	71
613	Drab Brown-VY LT	39	15	38	14	34	13
632	Desert Sand-UL VY DK	86	33	82	32	74	29
640	Beige Gray-VY DK	227	89	216	85	195	76
642	Beige Gray-DK	24	9	23	9	21	8
644	Beige Gray-MD	50	19	48	18	43	16
645	Beaver Gray-VY DK	163	64	156	61	140	55
646	Beaver Gray-DK	104	40	99	38	89	35
647	Beaver Gray-MD	103	40	98	38	88	34
677	Old Gold-VY LT	6	2	6	2	5	1
680	Old Gold-DK	130	51	124	48	112	44
712	Cream	20	7	19	7	17	6
730	Olive Green-VY DK	256	100	244	96	220	86
738	Tan-VY LT	67	26	64	25	58	22
739	Tan-UL VY LT	22	8	21	8	19	7
754	Peach-LT	2	1	2	1	2	1
758	Terra Cotta-VY LT	8	3	7	2	7	2
762	Pearl Gray-VY LT	20	7	19	7	17	6

778	Antique Mauve-VY LT	35	13	33	12	30	11
780	Topaz-UL VY DK	69	27	66	25	59	23
801	Coffee Brown-DK	271	106	259	101	233	91
815	Garnet-MD	172	67	164	64	147	57
816	Garnet	6	2	5	1	5	1
819	Baby Pink-LT	8	3	8	3	7	2
829	Golden Olive-VY DK	335	131	319	125	287	112
830	Golden Olive-DK	296	116	282	111	254	100
831	Golden Olive-MD	200	78	190	74	171	67
832	Golden Olive	125	49	119	46	107	42
833	Golden Olive-LT	50	19	47	18	43	16
834	Golden Olive-VY LT	22	8	21	8	19	7
839	Beige Brown-DK	307	120	292	114	263	103
840	Beige Brown-MD	51	20	49	19	44	17
842	Beige Brown-VY LT	12	4	11	4	10	3
844	Beaver Brown-UL DK	50	19	48	18	43	16
869	Hazelnut Brown-VY DK	387	152	368	144	332	130
898	Coffee Brown-VY DK	1210	476	1152	453	1037	408
918	Red Copper-DK	26	10	25	9	23	9
919	Red Copper	265	104	253	99	228	89
920	Copper-MD	137	53	130	51	117	46
921	Copper	316	124	301	118	271	106
926	Gray Green-MD	21	8	20	7	18	7
927	Gray Green-LT	65	25	62	24	55	21
928	Gray Green-VY LT	50	19	48	18	43	16
934	Black Avocado Green	99	38	94	37	85	33
935	Avocado Green-DK	18	7	17	6	16	6
936	Avocado Green-VY DK	441	173	420	165	378	148
938	Coffee Brown-UL DK	911	358	868	341	781	307
948	Peach-VY LT	8	3	7	2	7	2
975	Golden Brown-DK	85	33	81	31	73	28
3011	Khaki Green-DK	587	231	559	220	503	198
3012	Khaki Green-MD	263	103	250	98	225	88
3021	Brown Gray-VY DK	794	312	756	297	681	268
3022	Brown Gray-MD	51	20	49	19	44	17
3031	Mocha Brown-VY DK	1364	537	1300	511	1170	460
3032	Mocha Brown-MD	162	63	154	60	139	54
3045	Yellow Beige-DK	86	33	82	32	74	29
3051	Green Gray-DK	316	124	301	118	271	106
3052	Green Gray-MD	57	22	54	21	49	19
3064	Desert Sand	15	5	14	5	13	5
3072	Beaver Gray-VY LT	23	9	22	8	20	7
3371	Black Brown	185	72	176	69	158	62
3713	Salmon-VY LT	4	1	4	1	4	1
3721	Shell Pink-DK	48	18	46	18	42	16
3726	Antique Mauve-DK	28	11	27	10	24	9
3756	Baby Blue-UL VY LT	14	5	14	5	12	4
3772	Desert Sand-VY DK	108	42	103	40	92	36
3776	Mahogany-LT	63	24	60	23	54	21
3777	Terra Cotta-VY DK	140	55	133	52	120	47
3778	Terra Cotta-LT	13	5	12	4	11	4
3781	Mocha Brown-DK	1332	524	1269	499	1142	449
3782	Mocha Brown-LT	141	55	134	52	121	47
3787	Brown Gray-DK	446	175	424	166	382	150
3790	Beige Gray-UL DK	175	68	166	65	150	59
3802	Antique Mauve-VY DK	15	5	14	5	13	5
3826	Golden Brown	43	16	41	16	37	14
3827	Golden Brown-Pale	3	1	3	1	3	1
3828	Hazelnut Brown	116	45	110	43	99	38

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3829	Old Gold-VY DK	86	33	82	32	74	29
3830	Terra Cotta-MD	129	50	123	48	110	43
3857	Rosewood-DK	153	60	146	57	132	51
3858	Rosewood-MD	73	28	69	27	62	24
3860	Cocoa	175	68	167	65	150	59
3861	Cocoa-LT	52	20	50	19	45	17
3862	Mocha Beige-DK	91	35	87	34	78	30
3863	Mocha Beige-MD	56	22	53	20	48	18
3866	Mocha Brown-UL VY LT	70	27	67	26	60	23

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
221	Shell Pink-VY DK	108	41	90	35	45	17
223	Shell Pink-LT	27	9	23	8	11	4
224	Shell Pink-VY LT	16	5	14	5	7	2
300	Mahogany-VY DK	342	133	285	111	143	56
301	Mahogany-MD	43	16	36	14	18	7
304	Christmas Red-MD	63	23	53	20	26	10
310	Black	263	103	219	86	110	43
315	Antique Mauve-VY DK	54	20	45	17	23	8
347	Salmon-VY DK	214	83	179	69	89	35
355	Terra Cotta-DK	216	85	180	71	90	35
356	Terra Cotta-MD	45	16	38	14	19	7
370	Mustard-MD	378	148	315	123	158	62
371	Mustard	194	76	162	63	81	32
372	Mustard-LT	121	47	101	39	50	20
400	Mahogany-DK	92	36	77	30	38	15
407	Desert Sand-DK	23	9	20	8	10	4
414	Steel Gray-DK	74	29	62	24	31	12
415	Pearl Gray	5	2	5	2	2	1
420	Hazelnut Brown-DK	713	279	594	233	297	116
422	Hazelnut Brown-LT	193	76	161	63	80	32
433	Brown-MD	531	209	443	174	221	87
434	Brown-LT	191	74	159	62	80	31
435	Brown-VY LT	263	103	219	86	110	43
436	Tan	5	2	5	2	2	1
437	Tan-LT	13	4	11	3	5	2
451	Shell Gray-DK	229	90	191	75	95	38
452	Shell Gray-MD	175	68	146	57	73	29
453	Shell Gray-LT	58	22	48	18	24	9
498	Christmas Red-DK	95	36	80	30	40	15
500	Blue Green-VY DK	52	20	44	17	22	8
524	Fern Green-VY LT	45	16	38	14	19	7
535	Ash Gray-VY LT	50	20	42	17	21	8
543	Beige Brown-UL VY LT	101	40	84	33	42	17
610	Drab Brown-DK	671	263	560	219	280	110
611	Drab Brown	749	293	624	245	312	122
612	Drab Brown-LT	326	128	272	107	136	53
613	Drab Brown-VY LT	61	23	51	20	26	10
632	Desert Sand-UL VY DK	133	52	111	44	56	22
640	Beige Gray-VY DK	351	137	293	114	146	57
642	Beige Gray-DK	38	14	32	12	16	6
644	Beige Gray-MD	77	29	65	24	32	12
645	Beaver Gray-VY DK	252	99	210	83	105	41
646	Beaver Gray-DK	160	63	134	53	67	26

647	Beaver Gray-MD	158	61	132	51	66	26
677	Old Gold-VY LT	9	2	8	2	4	1
680	Old Gold-DK	202	79	168	66	84	33
712	Cream	31	11	26	9	13	5
730	Olive Green-VY DK	396	155	330	129	165	65
738	Tan-VY LT	104	40	87	33	44	17
739	Tan-UL VY LT	34	13	29	11	14	5
754	Peach-LT	4	2	3	2	2	1
758	Terra Cotta-VY LT	13	4	11	3	5	2
762	Pearl Gray-VY LT	31	11	26	9	13	5
778	Antique Mauve-VY LT	54	20	45	17	23	8
780	Topaz-UL VY DK	106	41	89	35	44	17
801	Coffee Brown-DK	419	164	350	137	175	68
815	Garnet-MD	265	103	221	86	110	43
816	Garnet	9	2	8	2	4	1
819	Baby Pink-LT	13	4	11	3	5	2
829	Golden Olive-VY DK	517	202	431	168	215	84
830	Golden Olive-DK	457	180	381	150	191	75
831	Golden Olive-MD	308	121	257	101	128	50
832	Golden Olive	193	76	161	63	80	32
833	Golden Olive-LT	77	29	65	24	32	12
834	Golden Olive-VY LT	34	13	29	11	14	5
839	Beige Brown-DK	473	185	395	155	197	77
840	Beige Brown-MD	79	31	66	26	33	13
842	Beige Brown-VY LT	18	5	15	5	8	2
844	Beaver Brown-UL DK	77	29	65	24	32	12
869	Hazelnut Brown-VY DK	598	234	498	195	249	98
898	Coffee Brown-VY DK	1867	734	1556	612	778	306
918	Red Copper-DK	41	16	35	14	17	7
919	Red Copper	410	160	342	134	171	67
920	Copper-MD	211	83	176	69	88	35
921	Copper	488	191	407	159	203	80
926	Gray Green-MD	32	13	27	11	14	5
927	Gray Green-LT	99	38	83	32	41	16
928	Gray Green-VY LT	77	29	65	24	32	12
934	Black Avocado Green	153	59	128	50	64	25
935	Avocado Green-DK	29	11	24	9	12	5
936	Avocado Green-VY DK	680	266	567	222	284	111
938	Coffee Brown-UL DK	1406	553	1172	461	586	230
948	Peach-VY LT	13	4	11	3	5	2
975	Golden Brown-DK	131	50	110	42	55	21
3011	Khaki Green-DK	905	356	755	297	377	149
3012	Khaki Green-MD	405	158	338	132	169	66
3021	Brown Gray-VY DK	1226	482	1022	402	511	201
3022	Brown Gray-MD	79	31	66	26	33	13
3031	Mocha Brown-VY DK	2106	828	1755	690	878	345
3032	Mocha Brown-MD	250	97	209	81	104	41
3045	Yellow Beige-DK	133	52	111	44	56	22
3051	Green Gray-DK	488	191	407	159	203	80
3052	Green Gray-MD	88	34	74	29	37	14
3064	Desert Sand	23	9	20	8	10	4
3072	Beaver Gray-VY LT	36	13	30	11	15	5
3371	Black Brown	284	112	237	93	119	47
3713	Salmon-VY LT	7	2	6	2	3	1
3721	Shell Pink-DK	76	29	63	24	32	12
3726	Antique Mauve-DK	43	16	36	14	18	7
3756	Baby Blue-UL VY LT	22	7	18	6	9	3
3772	Desert Sand-VY DK	166	65	138	54	69	27
3776	Mahogany-LT	97	38	81	32	41	16

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3777	Terra Cotta-VY DK	216	85	180	71	90	35
3778	Terra Cotta-LT	20	7	17	6	8	3
3781	Mocha Brown-DK	2056	808	1713	674	857	337
3782	Mocha Brown-LT	218	85	182	71	91	35
3787	Brown Gray-DK	688	270	573	225	287	113
3790	Beige Gray-UL DK	270	106	225	89	113	44
3802	Antique Mauve-VY DK	23	9	20	8	10	4
3826	Golden Brown	67	25	56	21	28	11
3827	Golden Brown-Pale	5	2	5	2	2	1
3828	Hazelnut Brown	178	68	149	57	74	29
3829	Old Gold-VY DK	133	52	111	44	56	22
3830	Terra Cotta-MD	198	77	165	65	83	32
3857	Rosewood-DK	238	92	198	77	99	38
3858	Rosewood-MD	112	43	93	36	47	18
3860	Cocoa	270	106	225	89	113	44
3861	Cocoa-LT	81	31	68	26	34	13
3862	Mocha Beige-DK	140	54	117	45	59	23
3863	Mocha Beige-MD	86	32	72	27	36	14
3866	Mocha Brown-UL VY LT	108	41	90	35	45	17

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	43	17	42	16	40	15
223	Shell Pink-LT	11	4	10	3	10	3
224	Shell Pink-VY LT	6	2	6	2	6	2
300	Mahogany-VY DK	137	53	132	51	127	49
301	Mahogany-MD	17	6	17	6	16	6
304	Christmas Red-MD	25	9	24	9	23	9
310	Black	105	41	101	39	97	38
315	Antique Mauve-VY DK	22	8	21	8	20	7
347	Salmon-VY DK	86	33	82	32	79	31
355	Terra Cotta-DK	86	34	83	33	80	31
356	Terra Cotta-MD	18	6	17	6	17	6
370	Mustard-MD	151	59	145	57	140	55
371	Mustard	78	30	75	29	72	28
372	Mustard-LT	48	19	46	18	45	17
400	Mahogany-DK	37	14	35	14	34	13
407	Desert Sand-DK	9	4	9	3	9	3
414	Steel Gray-DK	30	12	28	11	27	11
415	Pearl Gray	2	1	2	1	2	1
420	Hazelnut Brown-DK	285	112	274	107	264	103
422	Hazelnut Brown-LT	77	30	74	29	71	28
433	Brown-MD	212	84	204	80	197	77
434	Brown-LT	76	30	73	28	71	27
435	Brown-VY LT	105	41	101	39	97	38
436	Tan	2	1	2	1	2	1
437	Tan-LT	5	1	5	1	5	1
451	Shell Gray-DK	91	36	88	35	85	33
452	Shell Gray-MD	70	27	67	26	65	25
453	Shell Gray-LT	23	9	22	8	21	8
498	Christmas Red-DK	38	14	37	14	35	13
500	Blue Green-VY DK	21	8	20	8	19	7
524	Fern Green-VY LT	18	6	17	6	17	6
535	Ash Gray-VY LT	20	8	19	8	19	7
543	Beige Brown-UL VY LT	40	16	39	15	37	15

610	Drab Brown-DK	269	105	258	101	249	97
611	Drab Brown	300	117	288	113	277	109
612	Drab Brown-LT	130	51	125	49	121	47
613	Drab Brown-VY LT	24	9	24	9	23	9
632	Desert Sand-UL VY DK	53	21	51	20	49	19
640	Beige Gray-VY DK	140	55	135	53	130	51
642	Beige Gray-DK	15	6	15	6	14	5
644	Beige Gray-MD	31	12	30	11	29	11
645	Beaver Gray-VY DK	101	40	97	38	93	37
646	Beaver Gray-DK	64	25	62	24	59	23
647	Beaver Gray-MD	63	24	61	24	59	23
677	Old Gold-VY LT	4	1	3	1	3	1
680	Old Gold-DK	81	32	78	30	75	29
712	Cream	12	4	12	4	11	4
730	Olive Green-VY DK	158	62	152	60	147	57
738	Tan-VY LT	42	16	40	15	39	15
739	Tan-UL VY LT	14	5	13	5	13	5
754	Peach-LT	1	1	1	1	1	1
758	Terra Cotta-VY LT	5	1	5	1	5	1
762	Pearl Gray-VY LT	12	4	12	4	11	4
778	Antique Mauve-VY LT	22	8	21	8	20	7
780	Topaz-UL VY DK	42	17	41	16	39	15
801	Coffee Brown-DK	168	66	161	63	155	61
815	Garnet-MD	106	41	102	39	98	38
816	Garnet	4	1	3	1	3	1
819	Baby Pink-LT	5	1	5	1	5	1
829	Golden Olive-VY DK	207	81	199	78	191	75
830	Golden Olive-DK	183	72	176	69	169	67
831	Golden Olive-MD	123	48	118	46	114	45
832	Golden Olive	77	30	74	29	71	28
833	Golden Olive-LT	31	12	30	11	29	11
834	Golden Olive-VY LT	14	5	13	5	13	5
839	Beige Brown-DK	189	74	182	71	175	69
840	Beige Brown-MD	32	12	30	12	29	11
842	Beige Brown-VY LT	7	2	7	2	7	2
844	Beaver Brown-UL DK	31	12	30	11	29	11
869	Hazelnut Brown-VY DK	239	94	230	90	221	87
898	Coffee Brown-VY DK	747	294	718	282	691	272
918	Red Copper-DK	17	6	16	6	15	6
919	Red Copper	164	64	158	62	152	59
920	Copper-MD	84	33	81	32	78	31
921	Copper	195	76	188	73	181	71
926	Gray Green-MD	13	5	12	5	12	5
927	Gray Green-LT	40	15	38	15	37	14
928	Gray Green-VY LT	31	12	30	11	29	11
934	Black Avocado Green	61	24	59	23	57	22
935	Avocado Green-DK	12	4	11	4	11	4
936	Avocado Green-VY DK	272	107	262	102	252	99
938	Coffee Brown-UL DK	562	221	541	213	521	205
948	Peach-VY LT	5	1	5	1	5	1
975	Golden Brown-DK	53	20	51	19	49	19
3011	Khaki Green-DK	362	143	348	137	335	132
3012	Khaki Green-MD	162	63	156	61	150	59
3021	Brown Gray-VY DK	490	193	471	186	454	179
3022	Brown Gray-MD	32	12	30	12	29	11
3031	Mocha Brown-VY DK	842	331	810	318	780	307
3032	Mocha Brown-MD	100	39	96	37	93	36
3045	Yellow Beige-DK	53	21	51	20	49	19
3051	Green Gray-DK	195	76	188	73	181	71

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3052	Green Gray-MD	35	14	34	13	33	13
3064	Desert Sand	9	4	9	3	9	3
3072	Beaver Gray-VY LT	14	5	14	5	13	5
3371	Black Brown	114	45	109	43	105	41
3713	Salmon-VY LT	3	1	3	1	3	1
3721	Shell Pink-DK	30	12	29	11	28	11
3726	Antique Mauve-DK	17	6	17	6	16	6
3756	Baby Blue-UL VY LT	9	3	8	3	8	3
3772	Desert Sand-VY DK	66	26	64	25	61	24
3776	Mahogany-LT	39	15	37	15	36	14
3777	Terra Cotta-VY DK	86	34	83	33	80	31
3778	Terra Cotta-LT	8	3	8	3	7	3
3781	Mocha Brown-DK	822	323	791	311	761	299
3782	Mocha Brown-LT	87	34	84	33	81	31
3787	Brown Gray-DK	275	108	264	104	255	100
3790	Beige Gray-UL DK	108	42	104	41	100	39
3802	Antique Mauve-VY DK	9	4	9	3	9	3
3826	Golden Brown	27	10	26	10	25	9
3827	Golden Brown-Pale	2	1	2	1	2	1
3828	Hazelnut Brown	71	27	69	26	66	25
3829	Old Gold-VY DK	53	21	51	20	49	19
3830	Terra Cotta-MD	79	31	76	30	73	29
3857	Rosewood-DK	95	37	91	35	88	34
3858	Rosewood-MD	45	17	43	17	41	16
3860	Cocoa	108	42	104	41	100	39
3861	Cocoa-LT	32	12	31	12	30	11
3862	Mocha Beige-DK	56	22	54	21	52	20
3863	Mocha Beige-MD	35	13	33	12	32	12
3866	Mocha Brown-UL VY LT	43	17	42	16	40	15

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	39	15	36	14	34	13
223	Shell Pink-LT	10	3	9	3	8	3
224	Shell Pink-VY LT	6	2	5	2	5	2
300	Mahogany-VY DK	122	48	114	44	107	42
301	Mahogany-MD	15	6	14	5	14	5
304	Christmas Red-MD	23	8	21	8	20	7
310	Black	94	37	88	34	82	32
315	Antique Mauve-VY DK	19	7	18	7	17	6
347	Salmon-VY DK	77	30	71	28	67	26
355	Terra Cotta-DK	77	30	72	28	68	26
356	Terra Cotta-MD	16	6	15	5	14	5
370	Mustard-MD	135	53	126	49	118	46
371	Mustard	69	27	65	25	61	24
372	Mustard-LT	43	17	40	16	38	15
400	Mahogany-DK	33	13	31	12	29	11
407	Desert Sand-DK	8	3	8	3	7	3
414	Steel Gray-DK	26	10	25	10	23	9
415	Pearl Gray	2	1	2	1	2	1
420	Hazelnut Brown-DK	255	100	238	93	223	87
422	Hazelnut Brown-LT	69	27	64	25	60	24
433	Brown-MD	190	75	177	70	166	65
434	Brown-LT	68	26	64	25	60	23
435	Brown-VY LT	94	37	88	34	82	32

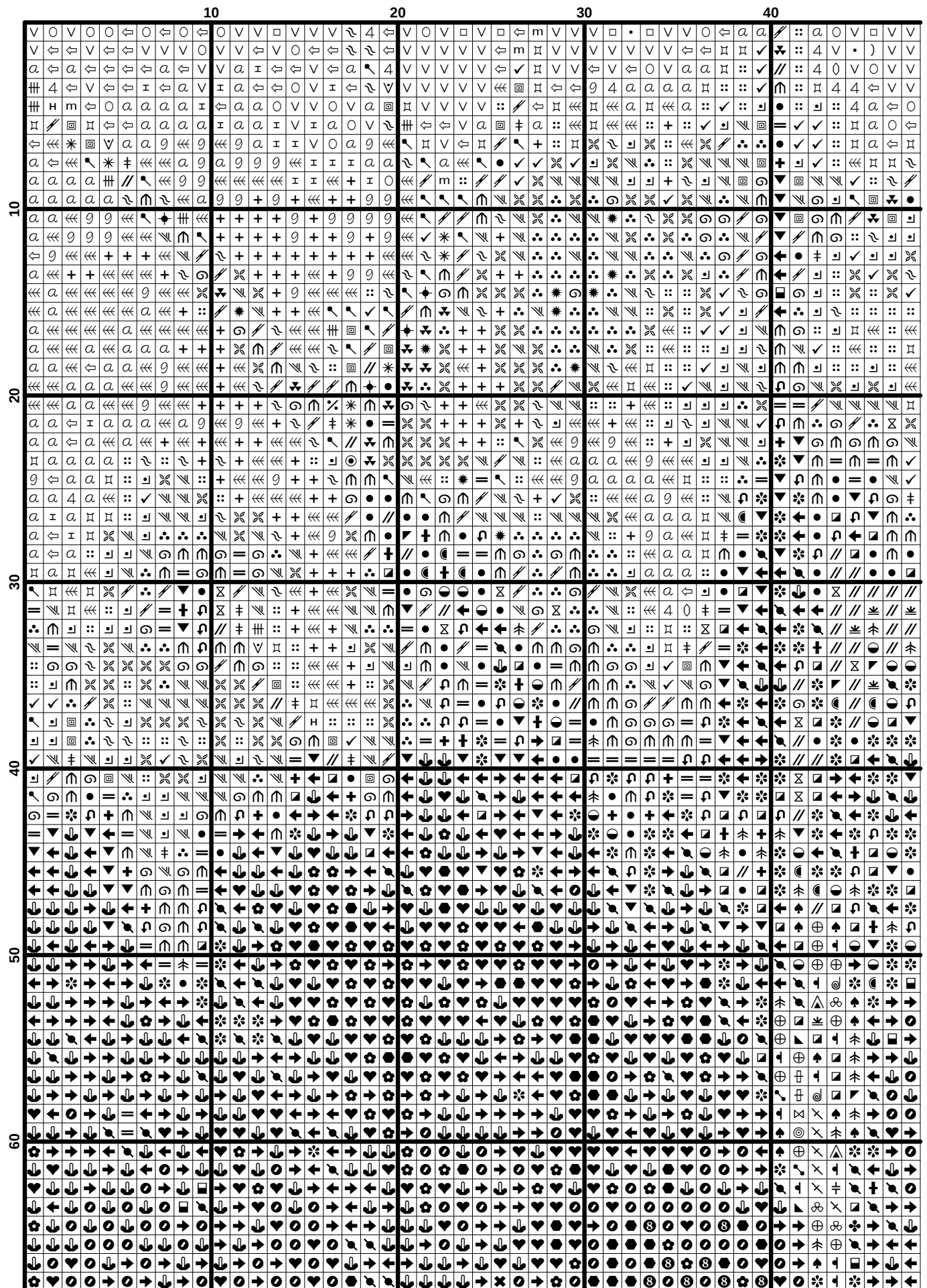
436	Tan	2	1	2	1	2	1
437	Tan-LT	5	1	4	1	4	1
451	Shell Gray-DK	82	32	76	30	71	28
452	Shell Gray-MD	62	24	58	23	55	21
453	Shell Gray-LT	21	8	19	7	18	7
498	Christmas Red-DK	34	13	32	12	30	11
500	Blue Green-VY DK	19	7	17	7	16	6
524	Fern Green-VY LT	16	6	15	5	14	5
535	Ash Gray-VY LT	18	7	17	7	16	6
543	Beige Brown-UL VY LT	36	14	34	13	32	12
610	Drab Brown-DK	240	94	224	88	210	82
611	Drab Brown	267	105	250	98	234	92
612	Drab Brown-LT	116	46	109	43	102	40
613	Drab Brown-VY LT	22	8	20	8	19	7
632	Desert Sand-UL VY DK	48	19	44	17	42	16
640	Beige Gray-VY DK	125	49	117	46	110	43
642	Beige Gray-DK	14	5	13	5	12	5
644	Beige Gray-MD	28	10	26	10	24	9
645	Beaver Gray-VY DK	90	35	84	33	79	31
646	Beaver Gray-DK	57	23	53	21	50	20
647	Beaver Gray-MD	57	22	53	20	50	19
677	Old Gold-VY LT	3	1	3	1	3	1
680	Old Gold-DK	72	28	67	26	63	25
712	Cream	11	4	10	4	10	3
730	Olive Green-VY DK	141	55	132	52	124	48
738	Tan-VY LT	37	14	35	13	33	12
739	Tan-UL VY LT	12	5	11	4	11	4
754	Peach-LT	1	1	1	1	1	1
758	Terra Cotta-VY LT	5	1	4	1	4	1
762	Pearl Gray-VY LT	11	4	10	4	10	3
778	Antique Mauve-VY LT	19	7	18	7	17	6
780	Topaz-UL VY DK	38	15	35	14	33	13
801	Coffee Brown-DK	150	59	140	55	131	51
815	Garnet-MD	95	37	88	34	83	32
816	Garnet	3	1	3	1	3	1
819	Baby Pink-LT	5	1	4	1	4	1
829	Golden Olive-VY DK	185	72	172	67	161	63
830	Golden Olive-DK	163	64	152	60	143	56
831	Golden Olive-MD	110	43	103	40	96	38
832	Golden Olive	69	27	64	25	60	24
833	Golden Olive-LT	28	10	26	10	24	9
834	Golden Olive-VY LT	12	5	11	4	11	4
839	Beige Brown-DK	169	66	158	62	148	58
840	Beige Brown-MD	28	11	26	10	25	10
842	Beige Brown-VY LT	6	2	6	2	6	2
844	Beaver Brown-UL DK	28	10	26	10	24	9
869	Hazelnut Brown-VY DK	213	84	199	78	187	73
898	Coffee Brown-VY DK	667	262	622	245	583	230
918	Red Copper-DK	15	6	14	5	13	5
919	Red Copper	147	57	137	53	128	50
920	Copper-MD	75	30	70	28	66	26
921	Copper	174	68	163	64	152	60
926	Gray Green-MD	12	5	11	4	10	4
927	Gray Green-LT	35	14	33	13	31	12
928	Gray Green-VY LT	28	10	26	10	24	9
934	Black Avocado Green	55	21	51	20	48	19
935	Avocado Green-DK	10	4	10	4	9	3
936	Avocado Green-VY DK	243	95	227	89	213	83
938	Coffee Brown-UL DK	502	197	469	184	439	173

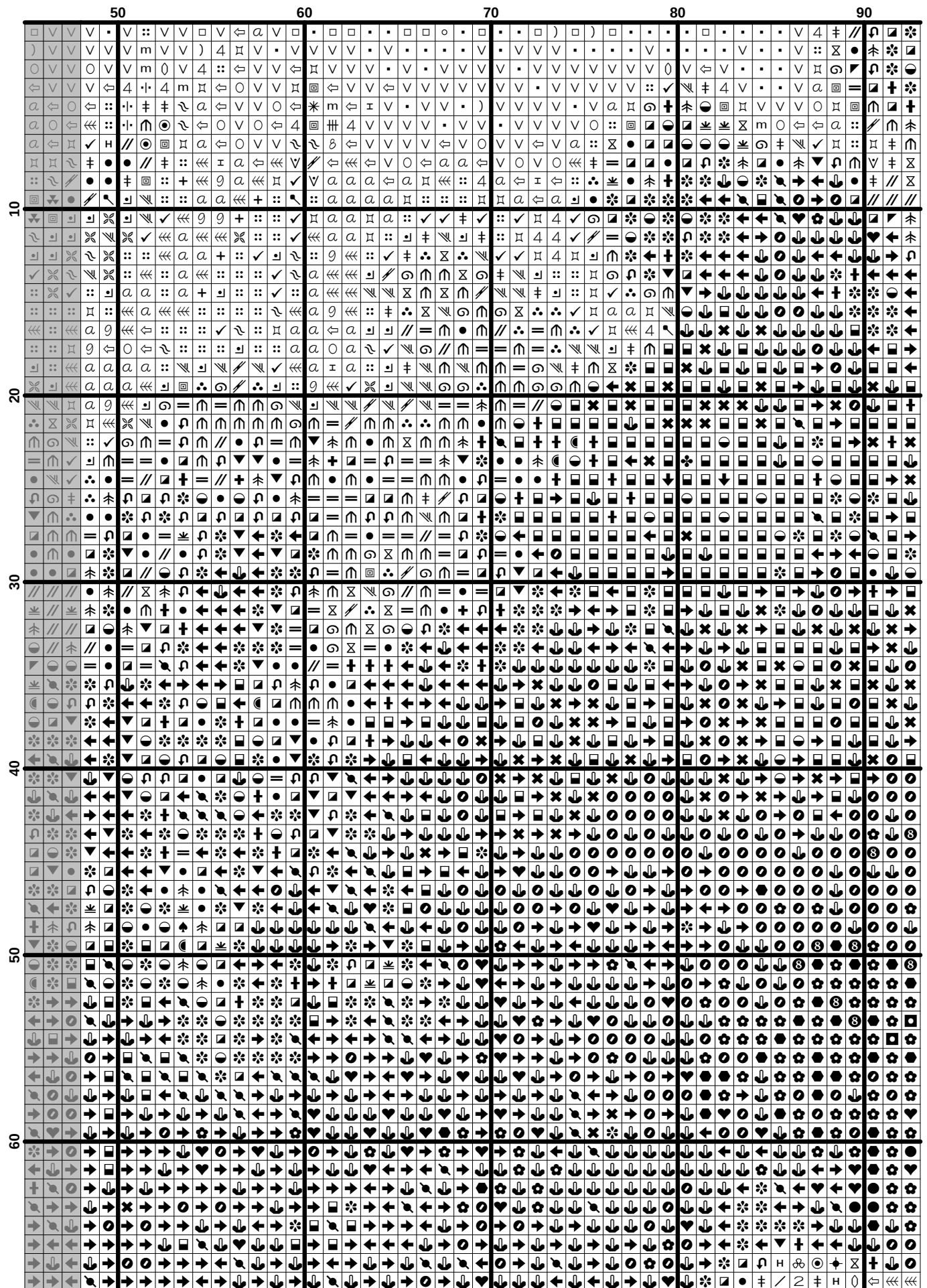
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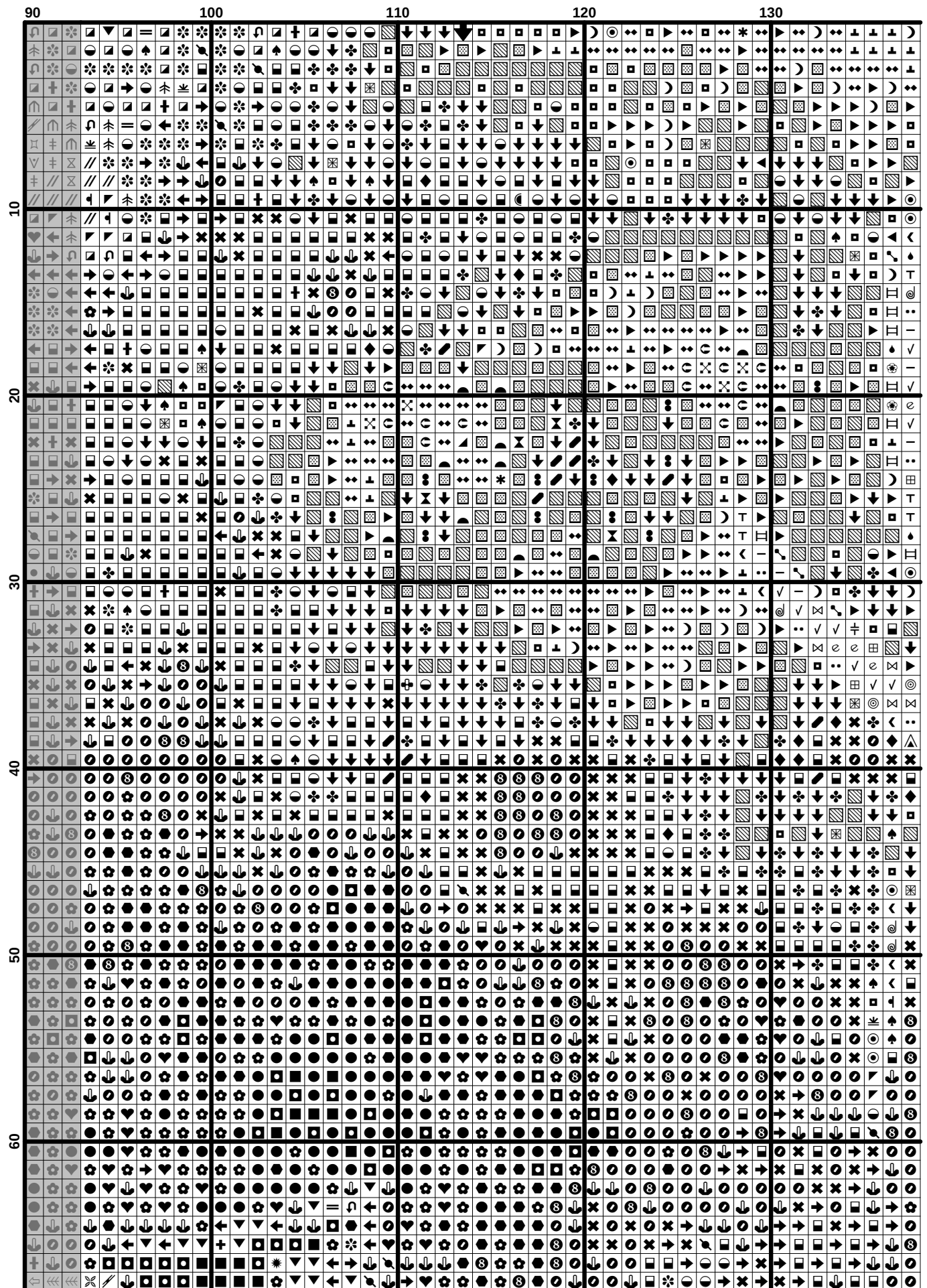
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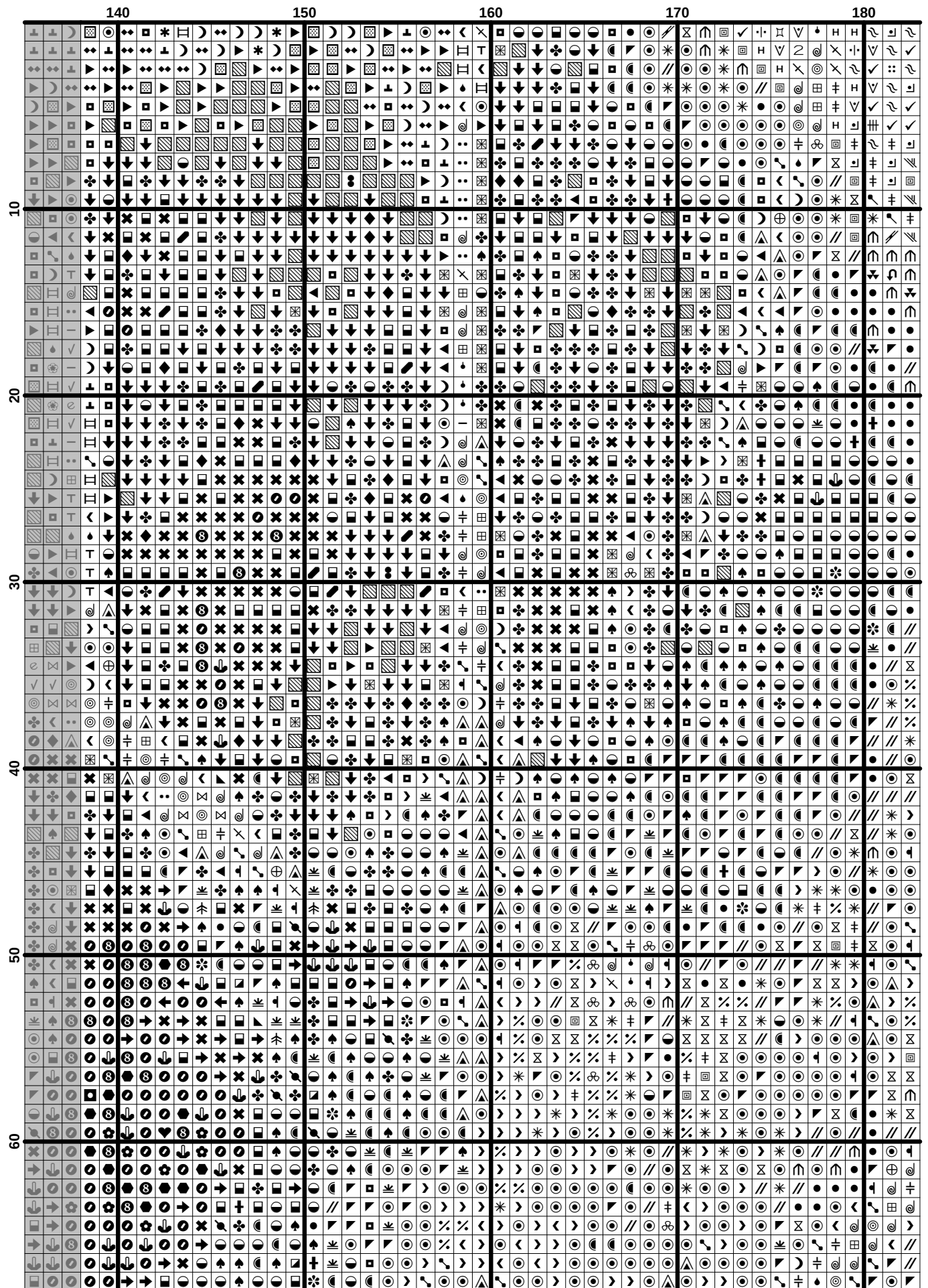
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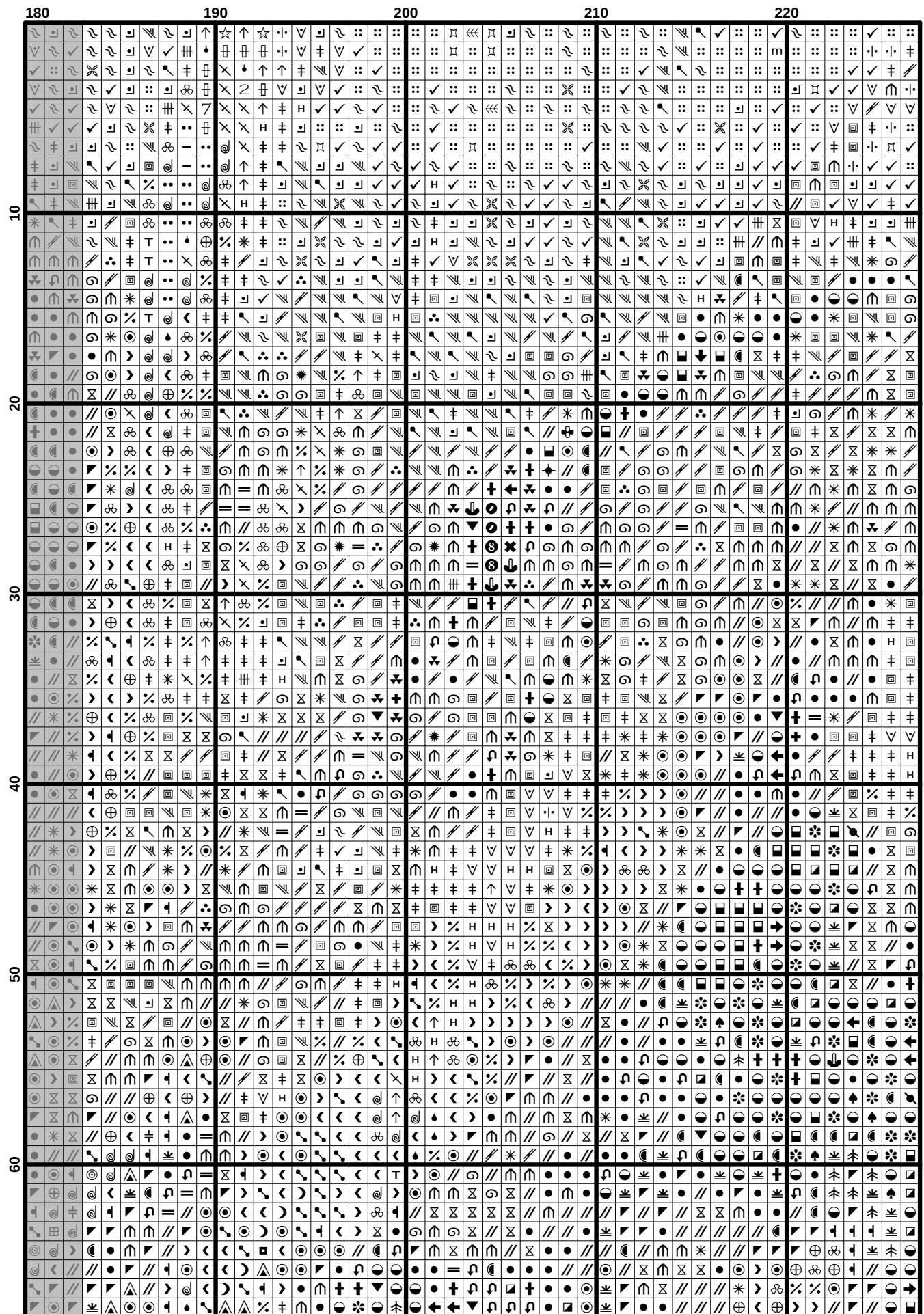
948	Peach-VY LT	5	1	4	1	4	1
975	Golden Brown-DK	47	18	44	17	41	16
3011	Khaki Green-DK	323	127	302	119	283	111
3012	Khaki Green-MD	145	57	135	53	127	50
3021	Brown Gray-VY DK	438	172	409	161	383	151
3022	Brown Gray-MD	28	11	26	10	25	10
3031	Mocha Brown-VY DK	752	296	702	276	658	259
3032	Mocha Brown-MD	89	35	83	32	78	30
3045	Yellow Beige-DK	48	19	44	17	42	16
3051	Green Gray-DK	174	68	163	64	152	60
3052	Green Gray-MD	32	12	29	11	28	11
3064	Desert Sand	8	3	8	3	7	3
3072	Beaver Gray-VY LT	13	5	12	4	11	4
3371	Black Brown	102	40	95	37	89	35
3713	Salmon-VY LT	3	1	2	1	2	1
3721	Shell Pink-DK	27	10	25	10	24	9
3726	Antique Mauve-DK	15	6	14	5	14	5
3756	Baby Blue-UL VY LT	8	3	7	2	7	2
3772	Desert Sand-VY DK	59	23	55	22	52	20
3776	Mahogany-LT	35	14	32	13	30	12
3777	Terra Cotta-VY DK	77	30	72	28	68	26
3778	Terra Cotta-LT	7	3	7	2	6	2
3781	Mocha Brown-DK	734	289	685	269	642	253
3782	Mocha Brown-LT	78	30	73	28	68	26
3787	Brown Gray-DK	246	96	229	90	215	84
3790	Beige Gray-UL DK	96	38	90	35	84	33
3802	Antique Mauve-VY DK	8	3	8	3	7	3
3826	Golden Brown	24	9	22	8	21	8
3827	Golden Brown-Pale	2	1	2	1	2	1
3828	Hazelnut Brown	64	24	59	23	56	21
3829	Old Gold-VY DK	48	19	44	17	42	16
3830	Terra Cotta-MD	71	28	66	26	62	24
3857	Rosewood-DK	85	33	79	31	74	29
3858	Rosewood-MD	40	15	37	14	35	14
3860	Cocoa	96	38	90	35	84	33
3861	Cocoa-LT	29	11	27	10	25	10
3862	Mocha Beige-DK	50	19	47	18	44	17
3863	Mocha Beige-MD	31	12	29	11	27	10
3866	Mocha Brown-UL VY LT	39	15	36	14	34	13





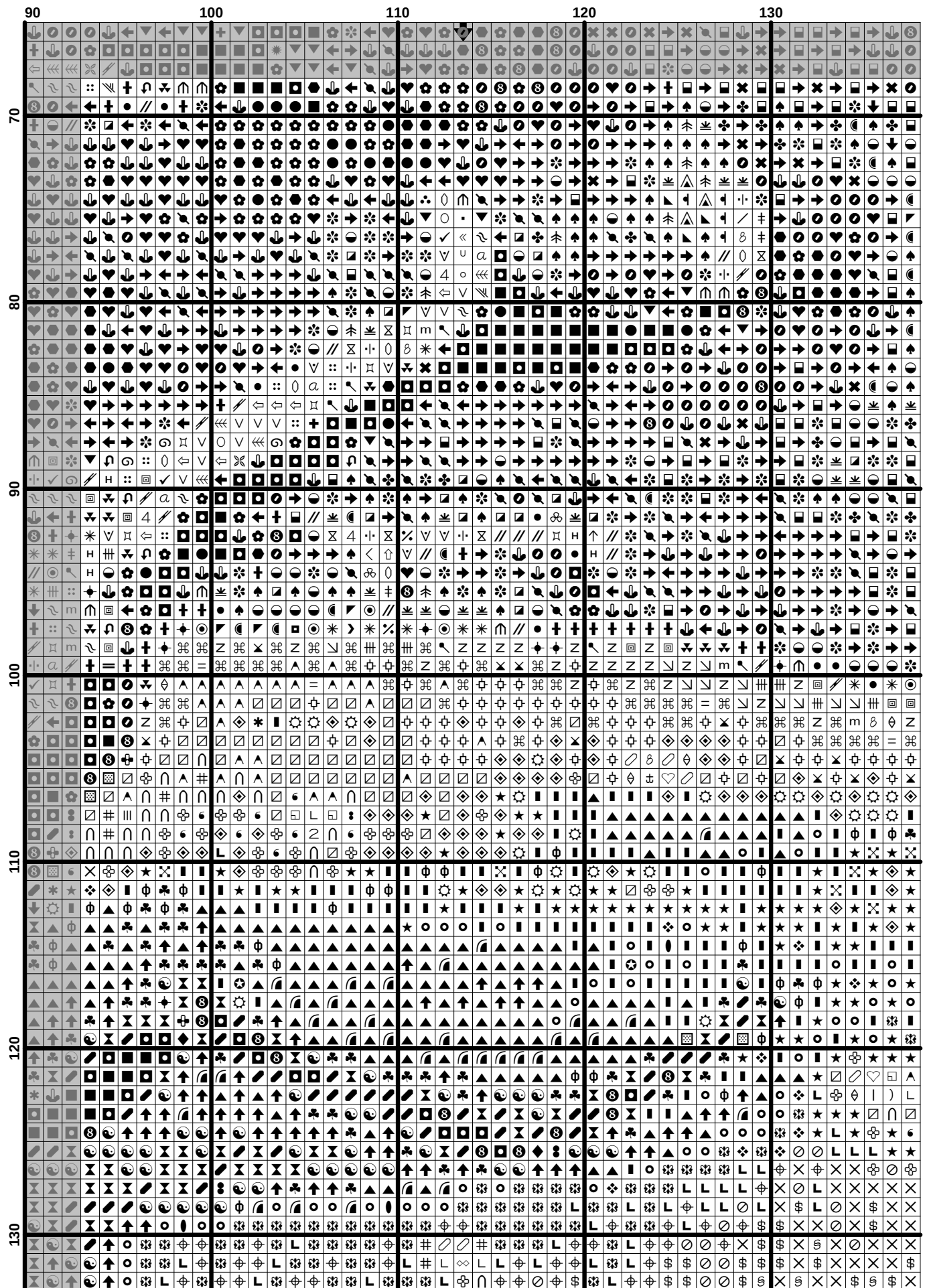


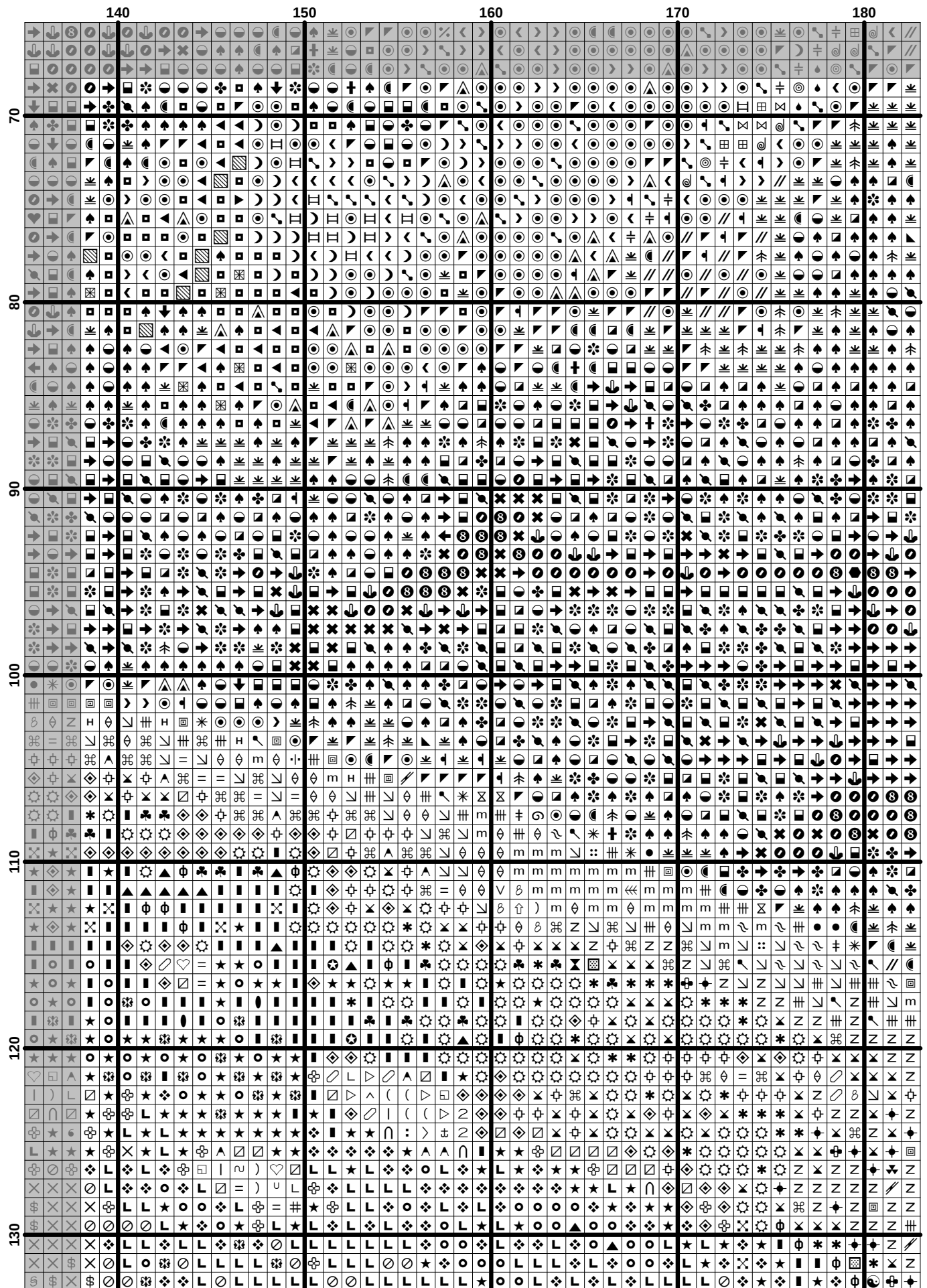


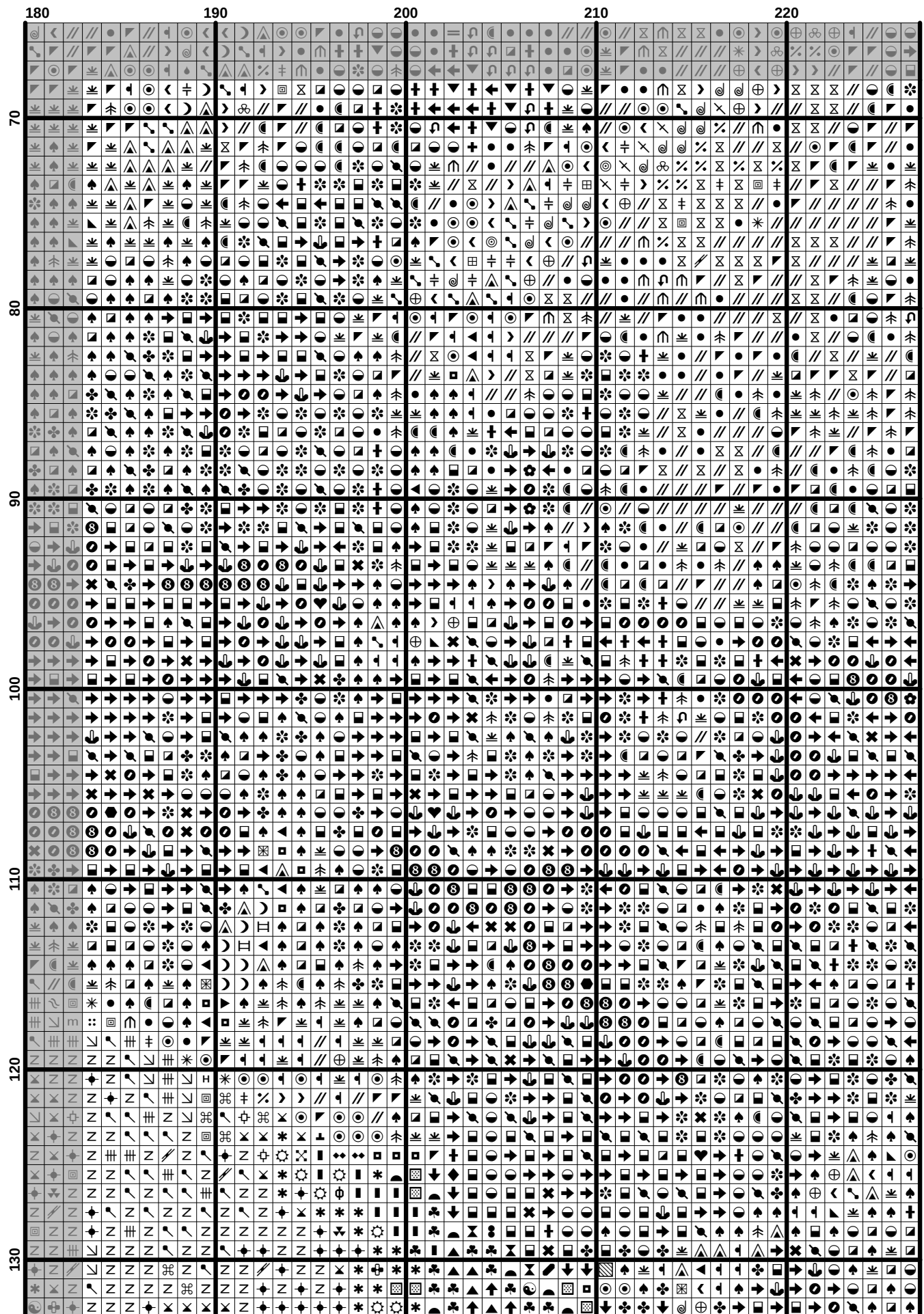


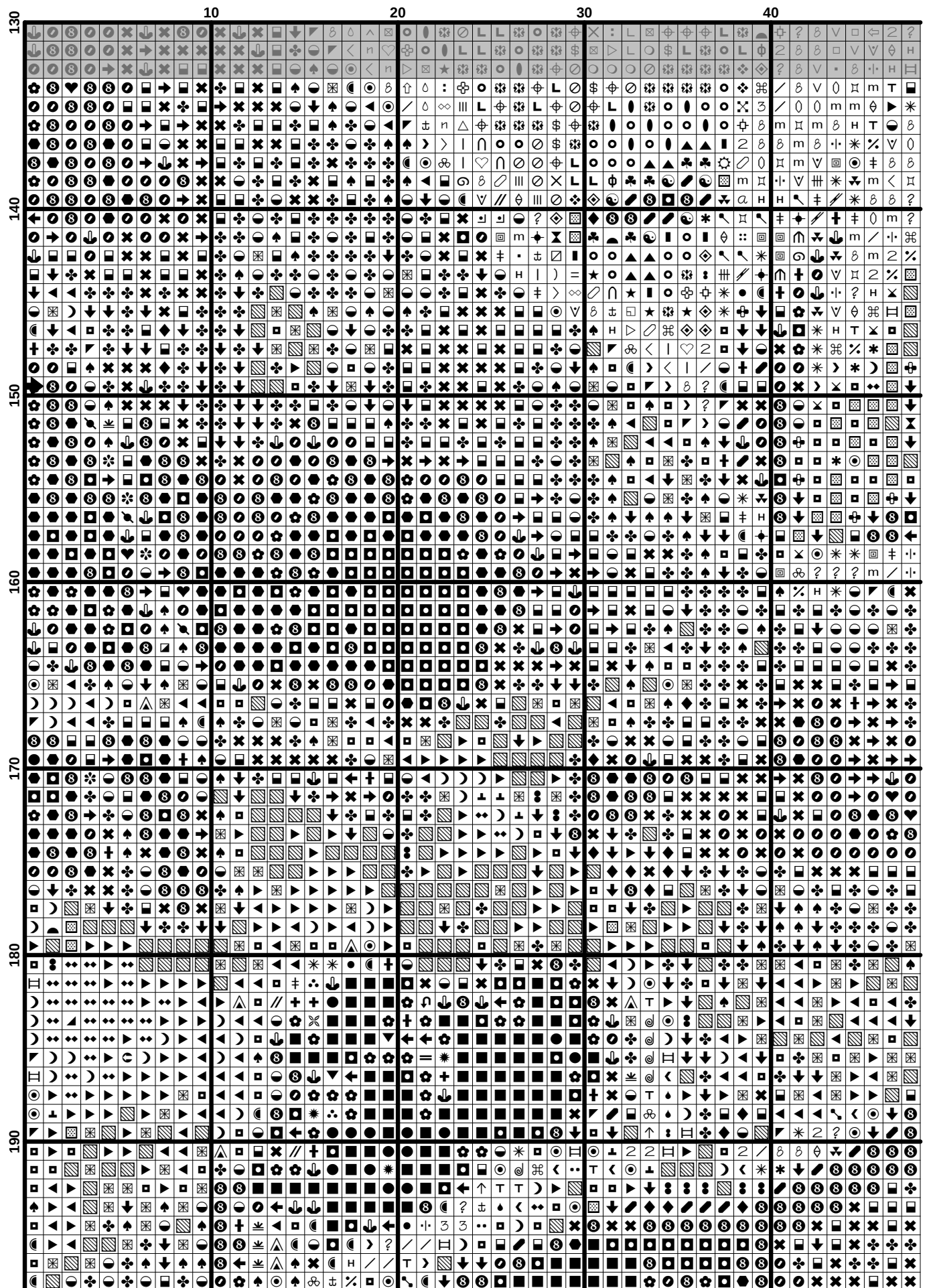
$$(11) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (12)$$

$$(12) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (13)$$



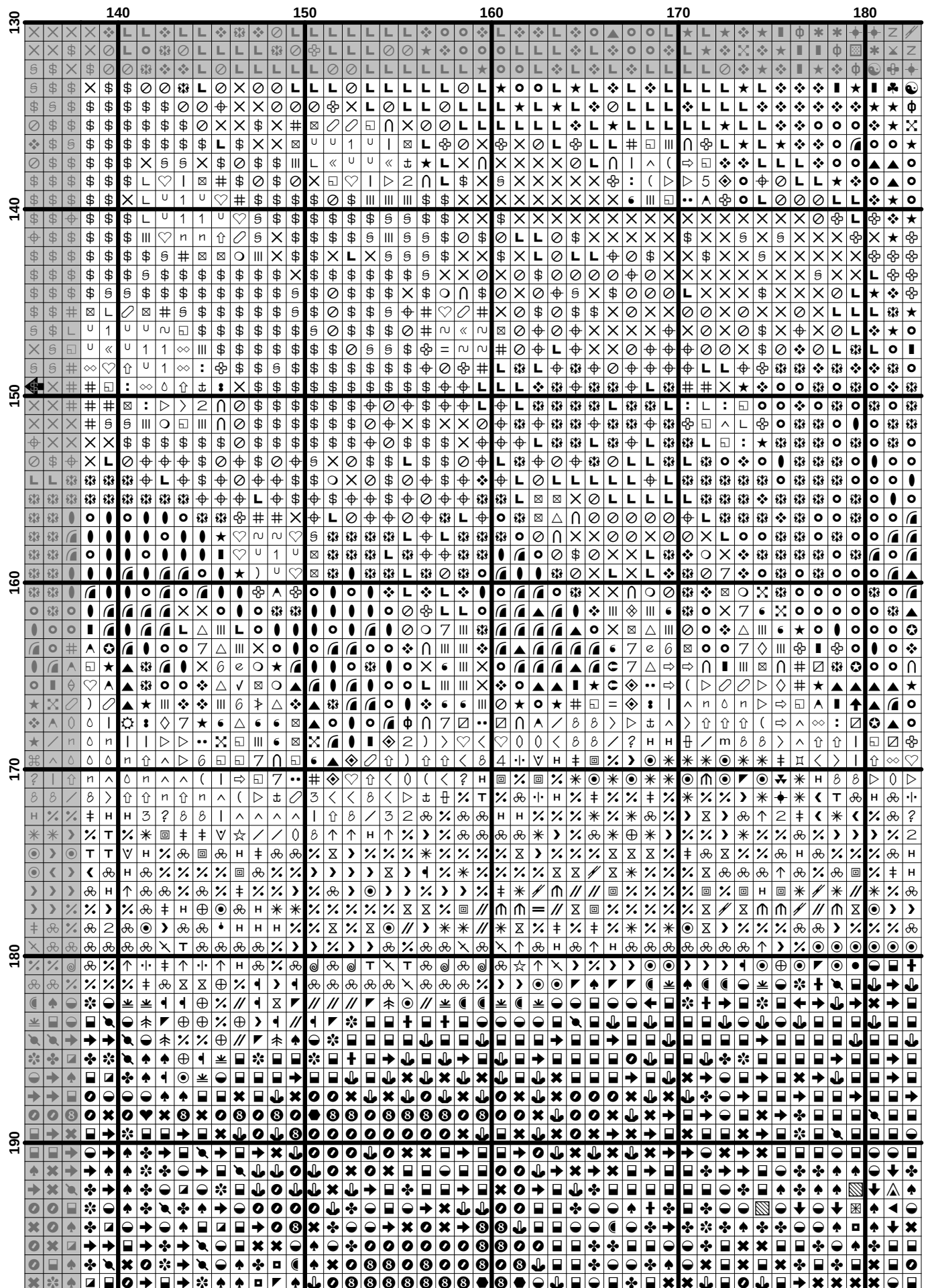


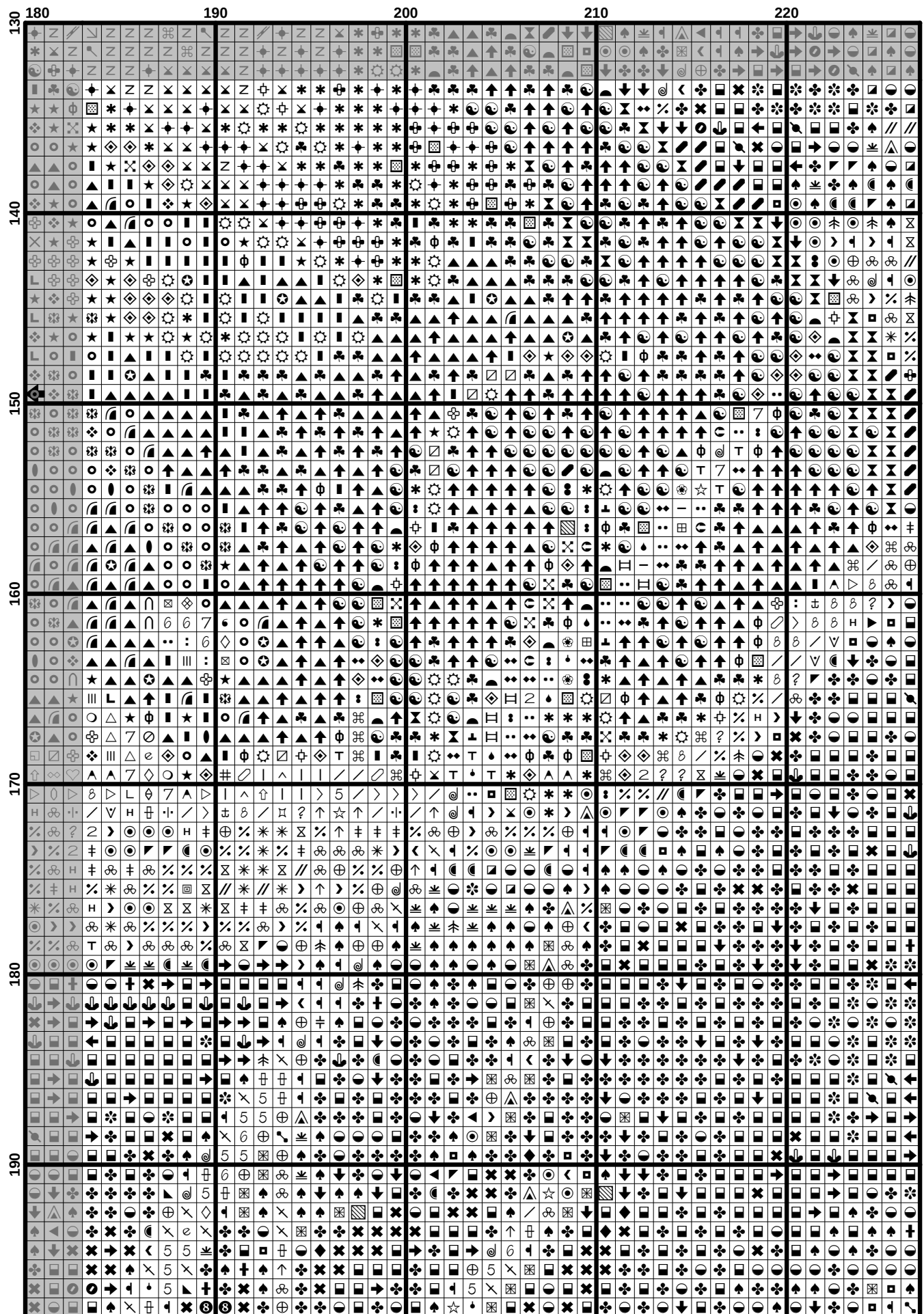


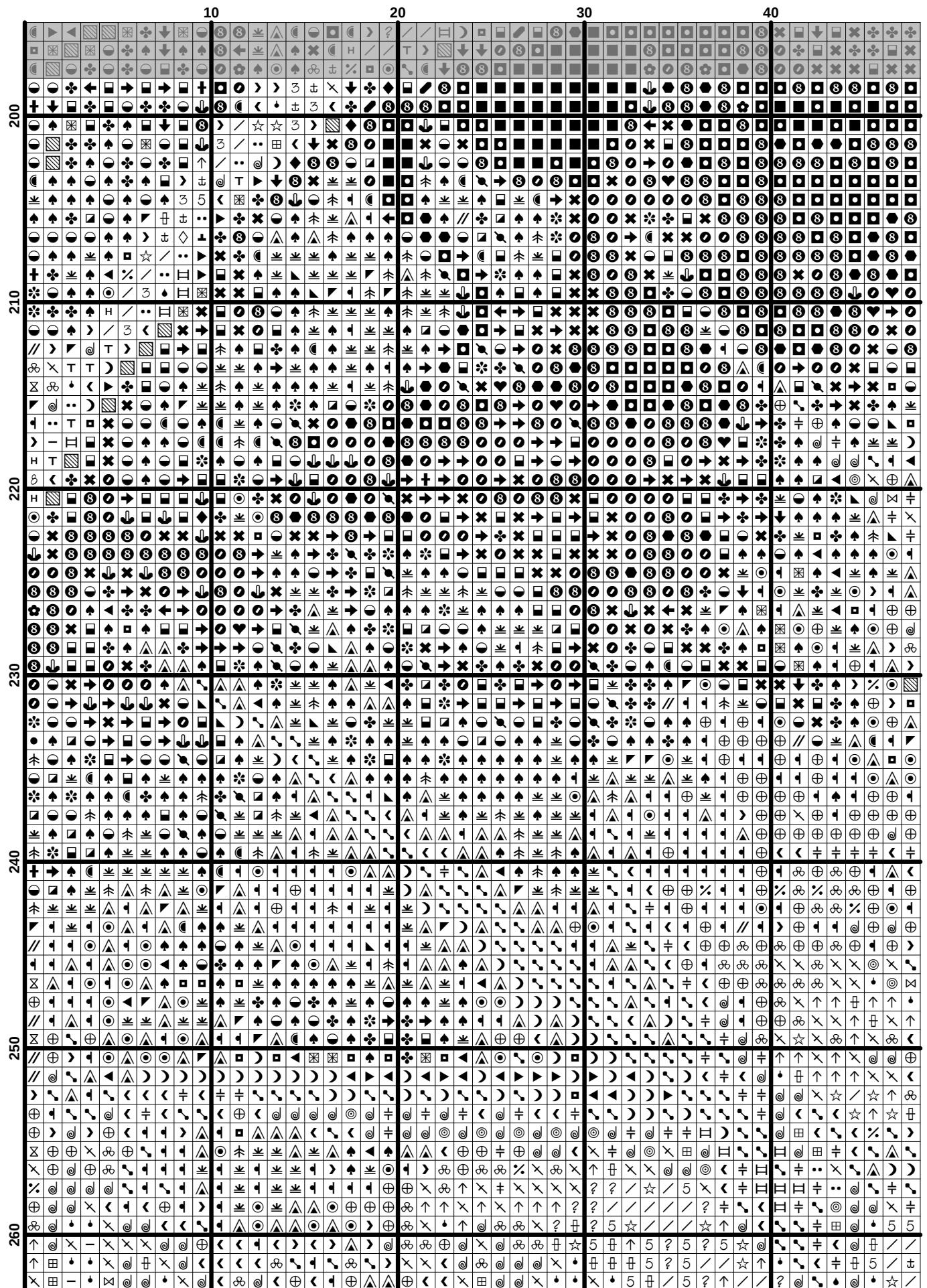


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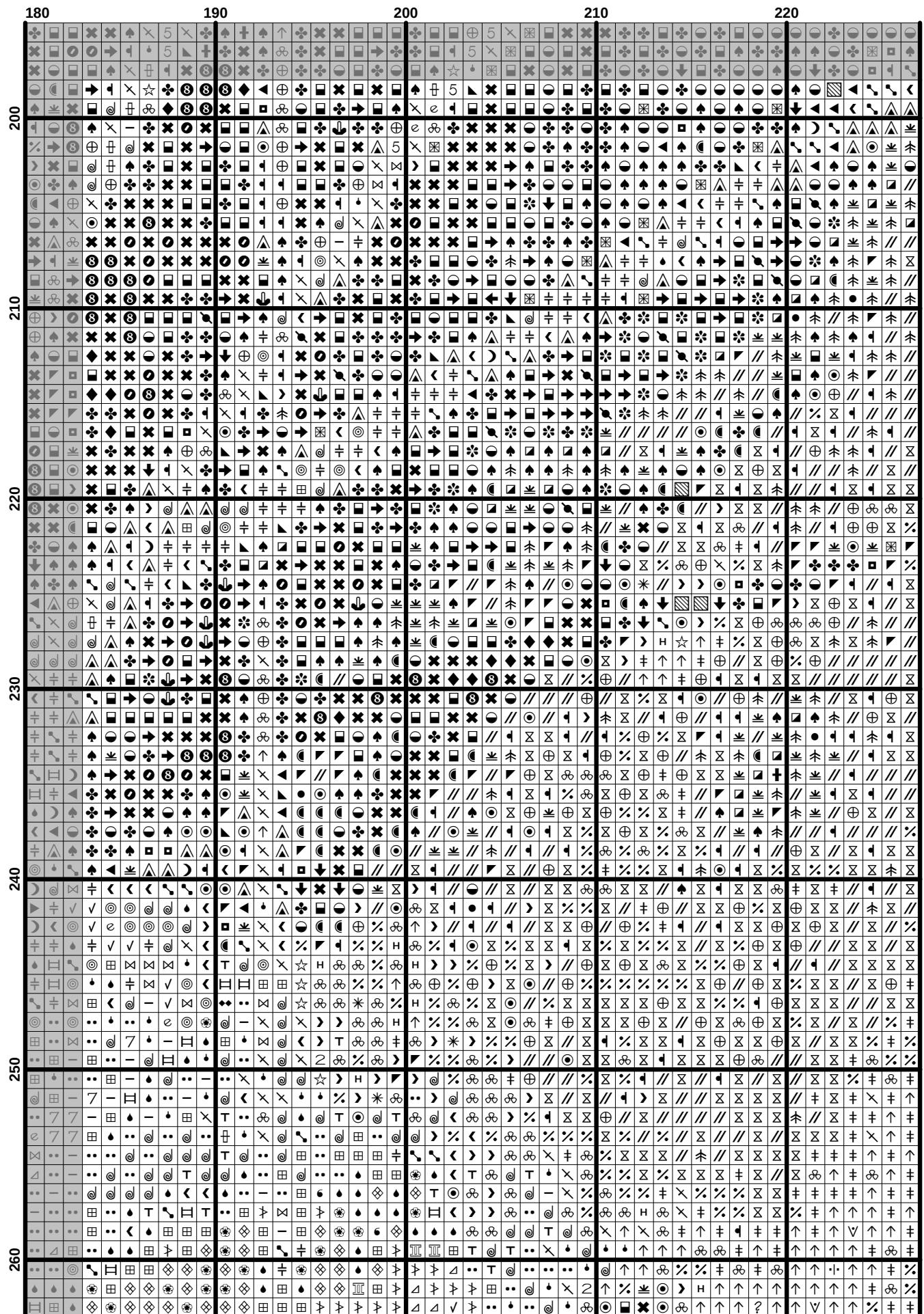






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