

1116 Monster



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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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Monster

Stitch Count	
Horizontal:	400
Vertical:	278

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	51	19.76	64	24.89	44	17.29	57	22.125	40	15.375
Including Margins:	89	35	67	26	80	31	60	24	73	29	56	22
	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	71	27.66	85	33.18	59	23.05	42	16.59	29	11.52
Including Margins:	118	46	87	34	101	40	75	30	58	23	45	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	28	11.06	39	15.31	27	10.64	37	14.74	26	10.24
Including Margins:	56	22	44	18	55	22	43	17	53	21	42	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	25	9.88	34	13.27	23	9.22	31	12.44	22	8.64
Including Margins:	52	21	41	16	50	20	39	16	47	19	38	15

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
⦿	223	Shell Pink-LT
7	224	Shell Pink-VY LT
■	310	Black
⦿	315	Antique Mauve-VY DK
✕	317	Pewter Gray
□	353	Peach
⦿	372	Mustard-LT
✕	407	Desert Sand-DK
⦿	413	Pewter Gray-DK
≡	415	Pearl Gray
⦿	422	Hazelnut Brown-LT
≡	436	Tan
2	437	Tan-LT
✓	452	Shell Gray-MD
●	500	Blue Green-VY DK
⦿	502	Blue Green
▶	535	Ash Gray-VY LT
)	543	Beige Brown-UL VY LT
⦿	610	Drab Brown-DK
⦿	611	Drab Brown
○	632	Desert Sand-UL VY DK
○	640	Beige Gray-VY DK
▲	645	Beaver Gray-VY DK
◀	646	Beaver Gray-DK
▲	647	Beaver Gray-MD
☆	648	Beaver Gray-LT
u	712	Cream
◇	738	Tan-VY LT
<	739	Tan-UL VY LT
=	754	Peach-LT
::	758	Terra Cotta-VY LT
	822	Beige Gray-LT
?	838	Beige Brown-VY DK
✕	839	Beige Brown-DK
\$	841	Beige Brown-LT
⦿	842	Beige Brown-VY LT
⦿	844	Beaver Brown-UL DK
✕	898	Coffee Brown-VY DK
⦿	924	Gray Green--VY DK

✕	926	Gray Green-MD
⦿	927	Gray Green-LT
↓	928	Gray Green-VY LT
▼	930	Antique Blue-DK
⦿	931	Antique Blue-MD
⦿	932	Antique Blue-LT
⦿	934	Black Avocado Green
↓	935	Avocado Green-DK
4	950	Desert Sand-LT
∞	951	Tawny-LT
(955	Nile Green-LT
e	964	Sea Green-LT
←	3021	Brown Gray-VY DK
↔	3024	Brown Gray-VY LT
◆	3031	Mocha Brown-VY DK
⦿	3032	Mocha Brown-MD
◇	3064	Desert Sand
n	3078	Golden Yellow-VY LT
■	3371	Black Brown
○	3753	Antique Blue-UL VY LT
■	3768	Gray Green-DK
1	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
♡	3811	Turquoise-VY LT
▷	3822	Straw-LT
↓	3828	Hazelnut Brown
⦿	3847	Teal Green-DK
◀	3848	Teal Green-MD
±	3855	Autumn Gold-LT
/	3856	Mahogany-UL VY LT
✕	3859	Rosewood-LT
✕	3860	Cocoa
⦿	3861	Cocoa-LT
⦿	3862	Mocha Beige-DK
✕	3863	Mocha Beige-MD
✕	3864	Mocha Beige-LT
⦿	3866	Mocha Brown-UL VY LT

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

Symbol	DMC1	Name1	DMC2	Name2
♥	934	Black Avocado Green	3799	Pewter Gray-VY DK
➔	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
♠	839	Beige Brown-DK	3787	Brown Gray-DK
↖	839	Beige Brown-DK	3021	Brown Gray-VY DK
▸	315	Antique Mauve-VY DK	3862	Mocha Beige-DK
⦿	407	Desert Sand-DK	841	Beige Brown-LT
⦿	839	Beige Brown-DK	844	Beaver Brown-UL DK
⦿	640	Beige Gray-VY DK	3860	Cocoa
✱	610	Drab Brown-DK	632	Desert Sand-UL VY DK
⦿	356	Terra Cotta-MD	436	Tan
⦿	3740	Antique Violet-DK	3787	Brown Gray-DK
⦿	3721	Shell Pink-DK	3772	Desert Sand-VY DK
⦿	223	Shell Pink-LT	3861	Cocoa-LT
⦿	3860	Cocoa	3861	Cocoa-LT
➤	503	Blue Green-MD	926	Gray Green-MD
◀	315	Antique Mauve-VY DK	610	Drab Brown-DK
⦿	407	Desert Sand-DK	840	Beige Brown-MD
◀	926	Gray Green-MD	927	Gray Green-LT
✂	840	Beige Brown-MD	3772	Desert Sand-VY DK
⦿	224	Shell Pink-VY LT	3864	Mocha Beige-LT
⦿	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
⌂	924	Gray Green--VY DK	3799	Pewter Gray-VY DK
▲	317	Pewter Gray	3768	Gray Green-DK
⦿	823	Navy Blue-DK	924	Gray Green--VY DK
▲	3740	Antique Violet-DK	3790	Beige Gray-UL DK
⦿	955	Nile Green-LT	415	Pearl Gray
+	3740	Antique Violet-DK	839	Beige Brown-DK
●	3740	Antique Violet-DK	610	Drab Brown-DK
⦿	839	Beige Brown-DK	535	Ash Gray-VY LT
⦿	3021	Brown Gray-VY DK	844	Beaver Brown-UL DK
✦	3740	Antique Violet-DK	844	Beaver Brown-UL DK
✱	839	Beige Brown-DK	315	Antique Mauve-VY DK
⦿	3740	Antique Violet-DK	3799	Pewter Gray-VY DK
⦿	934	Black Avocado Green	823	Navy Blue-DK
✱	3815	Celadon Green-DK	3768	Gray Green-DK
⦿	317	Pewter Gray	502	Blue Green
†	501	Blue Green-DK	924	Gray Green--VY DK
⦿	413	Pewter Gray-DK	501	Blue Green-DK
★	3815	Celadon Green-DK	645	Beaver Gray-VY DK
⦿	500	Blue Green-VY DK	924	Gray Green--VY DK
✱	3848	Teal Green-MD	317	Pewter Gray
⦿	930	Antique Blue-DK	3768	Gray Green-DK
✦	317	Pewter Gray	3815	Celadon Green-DK
☾	3848	Teal Green-MD	3768	Gray Green-DK
✱	3815	Celadon Green-DK	844	Beaver Brown-UL DK
↓	924	Gray Green--VY DK	844	Beaver Brown-UL DK
✂	924	Gray Green--VY DK	934	Black Avocado Green
⦿	823	Navy Blue-DK	500	Blue Green-VY DK
=	930	Antique Blue-DK	3848	Teal Green-MD
✱	413	Pewter Gray-DK	3815	Celadon Green-DK
♣	501	Blue Green-DK	3750	Antique Blue-VY DK
⦿	924	Gray Green--VY DK	3750	Antique Blue-VY DK
♠	3032	Mocha Brown-MD	223	Shell Pink-LT

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#	648	Beaver Gray-LT	3861	Cocoa-LT
III	648	Beaver Gray-LT	503	Blue Green-MD
—	648	Beaver Gray-LT	928	Gray Green-VY LT
⊕	3041	Antique Violet-MD	646	Beaver Gray-DK
⊕	926	Gray Green-MD	3861	Cocoa-LT
⊕	3866	Mocha Brown-UL VY LT	648	Beaver Gray-LT
‡	926	Gray Green-MD	415	Pearl Gray
↖	926	Gray Green-MD	452	Shell Gray-MD
◦	3866	Mocha Brown-UL VY LT	955	Nile Green-LT
✓	647	Beaver Gray-MD	842	Beige Brown-VY LT
↑	648	Beaver Gray-LT	452	Shell Gray-MD
••	927	Gray Green-LT	928	Gray Green-VY LT
9	648	Beaver Gray-LT	955	Nile Green-LT
«	712	Cream	3866	Mocha Brown-UL VY LT
🍷	413	Pewter Gray-DK	3799	Pewter Gray-VY DK
⚙	645	Beaver Gray-VY DK	3740	Antique Violet-DK
5	422	Hazelnut Brown-LT	3822	Straw-LT
Z	729	Old Gold-MD	3772	Desert Sand-VY DK
H	830	Golden Olive-DK	3032	Mocha Brown-MD
■	3740	Antique Violet-DK	3847	Teal Green-DK
♂	3768	Gray Green-DK	501	Blue Green-DK
•	955	Nile Green-LT	543	Beige Brown-UL VY LT
T	647	Beaver Gray-MD	503	Blue Green-MD
⊖	407	Desert Sand-DK	3864	Mocha Beige-LT
✓	842	Beige Brown-VY LT	224	Shell Pink-VY LT
m	3825	Pumpkin-Pale	758	Terra Cotta-VY LT
∕	950	Desert Sand-LT	842	Beige Brown-VY LT
••	3856	Mahogany-UL VY LT	3864	Mocha Beige-LT
∅	739	Tan-UL VY LT	3779	Terra Cotta-UL VY LT
≈	3078	Golden Yellow-VY LT	739	Tan-UL VY LT
L	739	Tan-UL VY LT	754	Peach-LT
^	754	Peach-LT	3078	Golden Yellow-VY LT
⇒	407	Desert Sand-DK	758	Terra Cotta-VY LT
↑	758	Terra Cotta-VY LT	437	Tan-LT
⊗	3825	Pumpkin-Pale	437	Tan-LT
×	436	Tan	437	Tan-LT
3	738	Tan-VY LT	3856	Mahogany-UL VY LT
6	739	Tan-UL VY LT	842	Beige Brown-VY LT
*	356	Terra Cotta-MD	3772	Desert Sand-VY DK
+	738	Tan-VY LT	369	Pistachio Green-VY LT
:	955	Nile Green-LT	964	Sea Green-LT
□	964	Sea Green-LT	415	Pearl Gray
H	932	Antique Blue-LT	964	Sea Green-LT
◇	928	Gray Green-VY LT	955	Nile Green-LT
~	951	Tawny-LT	3866	Mocha Brown-UL VY LT
⬆	3721	Shell Pink-DK	840	Beige Brown-MD
½	224	Shell Pink-VY LT	610	Drab Brown-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	
223	Shell Pink-LT	30	11	28	11	26	10
224	Shell Pink-VY LT	233	91	222	87	200	78
310	Black	18	7	18	7	16	6
315	Antique Mauve-VY DK	179	70	171	67	154	60
317	Pewter Gray	314	123	299	117	269	105
353	Peach	3	1	3	1	3	1
356	Terra Cotta-MD	27	10	26	10	23	9
369	Pistachio Green-VY LT	24	9	23	9	20	7
372	Mustard-LT	85	33	81	31	73	28
407	Desert Sand-DK	510	200	486	191	437	172
413	Pewter Gray-DK	461	181	439	172	395	155
415	Pearl Gray	57	22	54	21	49	19
422	Hazelnut Brown-LT	68	26	65	25	58	22
436	Tan	140	55	133	52	120	47
437	Tan-LT	164	64	157	61	141	55
452	Shell Gray-MD	93	36	89	35	80	31
500	Blue Green-VY DK	3913	1540	3727	1467	3354	1320
501	Blue Green-DK	577	227	550	216	495	194
502	Blue Green	55	21	52	20	47	18
503	Blue Green-MD	29	11	28	11	25	9
535	Ash Gray-VY LT	542	213	516	203	465	183
543	Beige Brown-UL VY LT	67	26	64	25	57	22
610	Drab Brown-DK	410	161	391	153	351	138
611	Drab Brown	22	8	20	7	18	7
632	Desert Sand-UL VY DK	34	13	33	12	29	11
640	Beige Gray-VY DK	360	141	343	135	308	121
645	Beaver Gray-VY DK	548	215	522	205	469	184
646	Beaver Gray-DK	223	87	213	83	191	75
647	Beaver Gray-MD	156	61	149	58	134	52
648	Beaver Gray-LT	201	79	192	75	172	67
712	Cream	23	9	22	8	20	7
729	Old Gold-MD	18	7	18	7	16	6
738	Tan-VY LT	264	103	252	99	227	89
739	Tan-UL VY LT	377	148	359	141	323	127
754	Peach-LT	120	47	115	45	103	40
758	Terra Cotta-VY LT	88	34	84	33	75	29
822	Beige Gray-LT	50	19	47	18	43	16
823	Navy Blue-DK	1807	711	1721	677	1549	609
830	Golden Olive-DK	11	4	11	4	10	3
838	Beige Brown-VY DK	55	21	52	20	47	18
839	Beige Brown-DK	1139	448	1085	427	976	384
840	Beige Brown-MD	209	82	199	78	179	70
841	Beige Brown-LT	290	114	277	109	249	98
842	Beige Brown-VY LT	341	134	325	127	292	114
844	Beaver Brown-UL DK	1443	568	1375	541	1237	487
898	Coffee Brown-VY DK	7	2	6	2	6	2
924	Gray Green--VY DK	3734	1470	3556	1400	3201	1260
926	Gray Green-MD	219	86	208	81	187	73
927	Gray Green-LT	71	27	68	26	61	24
928	Gray Green-VY LT	75	29	72	28	64	25
930	Antique Blue-DK	268	105	255	100	230	90
931	Antique Blue-MD	16	6	15	5	14	5
932	Antique Blue-LT	25	9	24	9	22	8
934	Black Avocado Green	1136	447	1082	425	973	383

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935	Avocado Green-DK	18	7	17	6	15	5
950	Desert Sand-LT	80	31	76	29	69	27
951	Tawny-LT	146	57	139	54	125	49
955	Nile Green-LT	51	20	49	19	44	17
964	Sea Green-LT	41	16	39	15	35	13
3021	Brown Gray-VY DK	727	286	693	272	623	245
3024	Brown Gray-VY LT	50	19	47	18	43	16
3031	Mocha Brown-VY DK	93	36	89	35	80	31
3032	Mocha Brown-MD	183	72	174	68	156	61
3041	Antique Violet-MD	64	25	61	24	55	21
3064	Desert Sand	66	25	63	24	56	22
3078	Golden Yellow-VY LT	77	30	74	29	66	25
3371	Black Brown	20	7	19	7	17	6
3721	Shell Pink-DK	27	10	25	9	23	9
3740	Antique Violet-DK	1202	473	1144	450	1030	405
3750	Antique Blue-VY DK	451	177	430	169	387	152
3753	Antique Blue-UL VY LT	14	5	13	5	12	4
3768	Gray Green-DK	496	195	473	186	425	167
3770	Tawny-VY LT	14	5	14	5	12	4
3772	Desert Sand-VY DK	173	68	165	64	149	58
3779	Terra Cotta-UL VY LT	85	33	81	31	73	28
3781	Mocha Brown-DK	35	13	33	12	30	11
3782	Mocha Brown-LT	99	38	94	37	85	33
3787	Brown Gray-DK	552	217	526	207	473	186
3790	Beige Gray-UL DK	239	94	228	89	205	80
3799	Pewter Gray-VY DK	2247	884	2140	842	1926	758
3811	Turquoise-VY LT	11	4	10	3	9	3
3815	Celadon Green-DK	175	68	167	65	150	59
3822	Straw-LT	15	5	14	5	13	5
3825	Pumpkin-Pale	25	9	24	9	21	8
3828	Hazelnut Brown	53	20	50	19	45	17
3847	Teal Green-DK	84	33	80	31	72	28
3848	Teal Green-MD	302	118	288	113	259	101
3855	Autumn Gold-LT	34	13	33	12	29	11
3856	Mahogany-UL VY LT	221	87	210	82	189	74
3859	Rosewood-LT	14	5	13	5	12	4
3860	Cocoa	432	170	412	162	370	145
3861	Cocoa-LT	342	134	326	128	293	115
3862	Mocha Beige-DK	124	48	118	46	106	41
3863	Mocha Beige-MD	141	55	135	53	121	47
3864	Mocha Beige-LT	663	261	631	248	568	223
3866	Mocha Brown-UL VY LT	114	44	108	42	97	38

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
223	Shell Pink-LT	47	18	39	15	20	8
224	Shell Pink-VY LT	360	140	300	117	150	59
310	Black	29	11	24	9	12	5
315	Antique Mauve-VY DK	277	108	231	90	116	45
317	Pewter Gray	484	189	404	158	202	79
353	Peach	5	2	5	2	2	1
356	Terra Cotta-MD	41	16	35	14	17	7
369	Pistachio Green-VY LT	36	13	30	11	15	5
372	Mustard-LT	131	50	110	42	55	21
407	Desert Sand-DK	787	310	656	258	328	129

413	Pewter Gray-DK	711	279	593	233	296	116
415	Pearl Gray	88	34	74	29	37	14
422	Hazelnut Brown-LT	104	40	87	33	44	17
436	Tan	216	85	180	71	90	35
437	Tan-LT	254	99	212	83	106	41
452	Shell Gray-MD	144	56	120	47	60	23
500	Blue Green-VY DK	6037	2376	5031	1980	2516	990
501	Blue Green-DK	891	349	743	291	371	146
502	Blue Green	85	32	71	27	35	14
503	Blue Green-MD	45	16	38	14	19	7
535	Ash Gray-VY LT	837	329	698	275	349	137
543	Beige Brown-UL VY LT	103	40	86	33	43	17
610	Drab Brown-DK	632	248	527	207	263	104
611	Drab Brown	32	13	27	11	14	5
632	Desert Sand-UL VY DK	52	20	44	17	22	8
640	Beige Gray-VY DK	554	218	462	182	231	91
645	Beaver Gray-VY DK	844	331	704	276	352	138
646	Beaver Gray-DK	344	135	287	113	143	56
647	Beaver Gray-MD	241	94	201	78	101	39
648	Beaver Gray-LT	310	121	258	101	129	50
712	Cream	36	13	30	11	15	5
729	Old Gold-MD	29	11	24	9	12	5
738	Tan-VY LT	409	160	341	134	170	67
739	Tan-UL VY LT	581	229	485	191	242	95
754	Peach-LT	185	72	155	60	77	30
758	Terra Cotta-VY LT	135	52	113	44	56	22
822	Beige Gray-LT	77	29	65	24	32	12
823	Navy Blue-DK	2788	1096	2324	914	1162	457
830	Golden Olive-DK	18	5	15	5	8	2
838	Beige Brown-VY DK	85	32	71	27	35	14
839	Beige Brown-DK	1757	691	1464	576	732	288
840	Beige Brown-MD	322	126	269	105	134	53
841	Beige Brown-LT	448	176	374	147	187	74
842	Beige Brown-VY LT	526	205	438	171	219	86
844	Beaver Brown-UL DK	2227	877	1856	731	928	365
898	Coffee Brown-VY DK	11	4	9	3	5	2
924	Gray Green--VY DK	5762	2268	4802	1890	2401	945
926	Gray Green-MD	337	131	281	110	140	55
927	Gray Green-LT	110	43	92	36	46	18
928	Gray Green-VY LT	115	45	96	38	48	19
930	Antique Blue-DK	414	162	345	135	173	68
931	Antique Blue-MD	25	9	21	8	11	4
932	Antique Blue-LT	40	14	33	12	17	6
934	Black Avocado Green	1751	689	1460	575	730	287
935	Avocado Green-DK	27	9	23	8	11	4
950	Desert Sand-LT	124	49	104	41	52	20
951	Tawny-LT	225	88	188	74	94	37
955	Nile Green-LT	79	31	66	26	33	13
964	Sea Green-LT	63	23	53	20	26	10
3021	Brown Gray-VY DK	1121	441	935	368	467	184
3024	Brown Gray-VY LT	77	29	65	24	32	12
3031	Mocha Brown-VY DK	144	56	120	47	60	23
3032	Mocha Brown-MD	281	110	234	92	117	46
3041	Antique Violet-MD	99	38	83	32	41	16
3064	Desert Sand	101	40	84	33	42	17
3078	Golden Yellow-VY LT	119	45	99	38	50	19
3371	Black Brown	31	11	26	9	13	5
3721	Shell Pink-DK	41	16	35	14	17	7
3740	Antique Violet-DK	1854	729	1545	608	773	304

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3750	Antique Blue-VY DK	697	274	581	228	290	114
3753	Antique Blue-UL VY LT	22	7	18	6	9	3
3768	Gray Green-DK	765	301	638	251	319	125
3770	Tawny-VY LT	22	7	18	6	9	3
3772	Desert Sand-VY DK	268	104	224	87	112	44
3779	Terra Cotta-UL VY LT	131	50	110	42	55	21
3781	Mocha Brown-DK	54	20	45	17	23	8
3782	Mocha Brown-LT	153	59	128	50	64	25
3787	Brown Gray-DK	851	335	710	279	355	140
3790	Beige Gray-UL DK	369	144	308	120	154	60
3799	Pewter Gray-VY DK	3467	1364	2889	1137	1445	569
3811	Turquoise-VY LT	16	5	14	5	7	2
3815	Celadon Green-DK	270	106	225	89	113	44
3822	Straw-LT	23	9	20	8	10	4
3825	Pumpkin-Pale	38	14	32	12	16	6
3828	Hazelnut Brown	81	31	68	26	34	13
3847	Teal Green-DK	130	50	108	42	54	21
3848	Teal Green-MD	466	182	389	152	194	76
3855	Autumn Gold-LT	52	20	44	17	22	8
3856	Mahogany-UL VY LT	340	133	284	111	142	56
3859	Rosewood-LT	22	7	18	6	9	3
3860	Cocoa	666	261	555	218	278	109
3861	Cocoa-LT	527	207	440	173	220	86
3862	Mocha Beige-DK	191	74	159	62	80	31
3863	Mocha Beige-MD	218	85	182	71	91	35
3864	Mocha Beige-LT	1022	401	852	335	426	167
3866	Mocha Brown-UL VY LT	175	68	146	57	73	29

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
223	Shell Pink-LT	19	7	18	7	17	7
224	Shell Pink-VY LT	144	56	138	54	133	52
310	Black	12	4	11	4	11	4
315	Antique Mauve-VY DK	111	43	107	42	103	40
317	Pewter Gray	194	76	186	73	179	70
353	Peach	2	1	2	1	2	1
356	Terra Cotta-MD	17	6	16	6	15	6
369	Pistachio Green-VY LT	14	5	14	5	13	5
372	Mustard-LT	53	20	51	19	49	19
407	Desert Sand-DK	315	124	303	119	291	115
413	Pewter Gray-DK	284	112	273	107	263	103
415	Pearl Gray	35	14	34	13	33	13
422	Hazelnut Brown-LT	42	16	40	15	39	15
436	Tan	86	34	83	33	80	31
437	Tan-LT	102	40	98	38	94	37
452	Shell Gray-MD	58	22	55	21	53	21
500	Blue Green-VY DK	2415	950	2322	914	2236	880
501	Blue Green-DK	356	140	343	134	330	129
502	Blue Green	34	13	33	12	31	12
503	Blue Green-MD	18	6	17	6	17	6
535	Ash Gray-VY LT	335	132	322	127	310	122
543	Beige Brown-UL VY LT	41	16	39	15	38	15
610	Drab Brown-DK	253	99	243	96	234	92
611	Drab Brown	13	5	12	5	12	5
632	Desert Sand-UL VY DK	21	8	20	8	19	7

640	Beige Gray-VY DK	222	87	213	84	205	81
645	Beaver Gray-VY DK	338	132	325	127	313	123
646	Beaver Gray-DK	138	54	132	52	127	50
647	Beaver Gray-MD	96	37	93	36	89	35
648	Beaver Gray-LT	124	48	119	46	115	45
712	Cream	14	5	14	5	13	5
729	Old Gold-MD	12	4	11	4	11	4
738	Tan-VY LT	163	64	157	62	151	59
739	Tan-UL VY LT	233	91	224	88	215	85
754	Peach-LT	74	29	71	28	69	27
758	Terra Cotta-VY LT	54	21	52	20	50	19
822	Beige Gray-LT	31	12	30	11	29	11
823	Navy Blue-DK	1115	438	1072	422	1033	406
830	Golden Olive-DK	7	2	7	2	7	2
838	Beige Brown-VY DK	34	13	33	12	31	12
839	Beige Brown-DK	703	276	676	266	651	256
840	Beige Brown-MD	129	50	124	48	119	47
841	Beige Brown-LT	179	71	172	68	166	65
842	Beige Brown-VY LT	210	82	202	79	195	76
844	Beaver Brown-UL DK	891	351	856	337	825	325
898	Coffee Brown-VY DK	4	1	4	1	4	1
924	Gray Green--VY DK	2305	907	2216	872	2134	840
926	Gray Green-MD	135	53	129	51	125	49
927	Gray Green-LT	44	17	42	17	41	16
928	Gray Green-VY LT	46	18	44	17	43	17
930	Antique Blue-DK	166	65	159	62	153	60
931	Antique Blue-MD	10	4	10	3	9	3
932	Antique Blue-LT	16	6	15	6	15	5
934	Black Avocado Green	701	276	674	265	649	255
935	Avocado Green-DK	11	4	10	3	10	3
950	Desert Sand-LT	50	19	48	19	46	18
951	Tawny-LT	90	35	87	34	83	33
955	Nile Green-LT	32	12	30	12	29	11
964	Sea Green-LT	25	9	24	9	23	9
3021	Brown Gray-VY DK	449	176	431	170	415	163
3024	Brown Gray-VY LT	31	12	30	11	29	11
3031	Mocha Brown-VY DK	58	22	55	21	53	21
3032	Mocha Brown-MD	112	44	108	42	104	41
3041	Antique Violet-MD	40	15	38	15	37	14
3064	Desert Sand	40	16	39	15	37	15
3078	Golden Yellow-VY LT	48	18	46	17	44	17
3371	Black Brown	12	4	12	4	11	4
3721	Shell Pink-DK	17	6	16	6	15	6
3740	Antique Violet-DK	742	292	713	280	687	270
3750	Antique Blue-VY DK	279	109	268	105	258	101
3753	Antique Blue-UL VY LT	9	3	8	3	8	3
3768	Gray Green-DK	306	120	294	116	283	111
3770	Tawny-VY LT	9	3	8	3	8	3
3772	Desert Sand-VY DK	107	42	103	40	99	39
3779	Terra Cotta-UL VY LT	53	20	51	19	49	19
3781	Mocha Brown-DK	22	8	21	8	20	7
3782	Mocha Brown-LT	61	24	59	23	57	22
3787	Brown Gray-DK	341	134	327	129	315	124
3790	Beige Gray-UL DK	148	58	142	55	137	53
3799	Pewter Gray-VY DK	1387	546	1333	525	1284	505
3811	Turquoise-VY LT	6	2	6	2	6	2
3815	Celadon Green-DK	108	42	104	41	100	39
3822	Straw-LT	9	4	9	3	9	3
3825	Pumpkin-Pale	15	6	15	6	14	5

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3828	Hazelnut Brown	32	12	31	12	30	11
3847	Teal Green-DK	52	20	50	19	48	19
3848	Teal Green-MD	186	73	179	70	173	67
3855	Autumn Gold-LT	21	8	20	8	19	7
3856	Mahogany-UL VY LT	136	53	131	51	126	49
3859	Rosewood-LT	9	3	8	3	8	3
3860	Cocoa	266	104	256	100	247	97
3861	Cocoa-LT	211	83	203	80	195	77
3862	Mocha Beige-DK	76	30	73	28	71	27
3863	Mocha Beige-MD	87	34	84	33	81	31
3864	Mocha Beige-LT	409	161	393	154	379	149
3866	Mocha Brown-UL VY LT	70	27	67	26	65	25

Extended thread usage table.

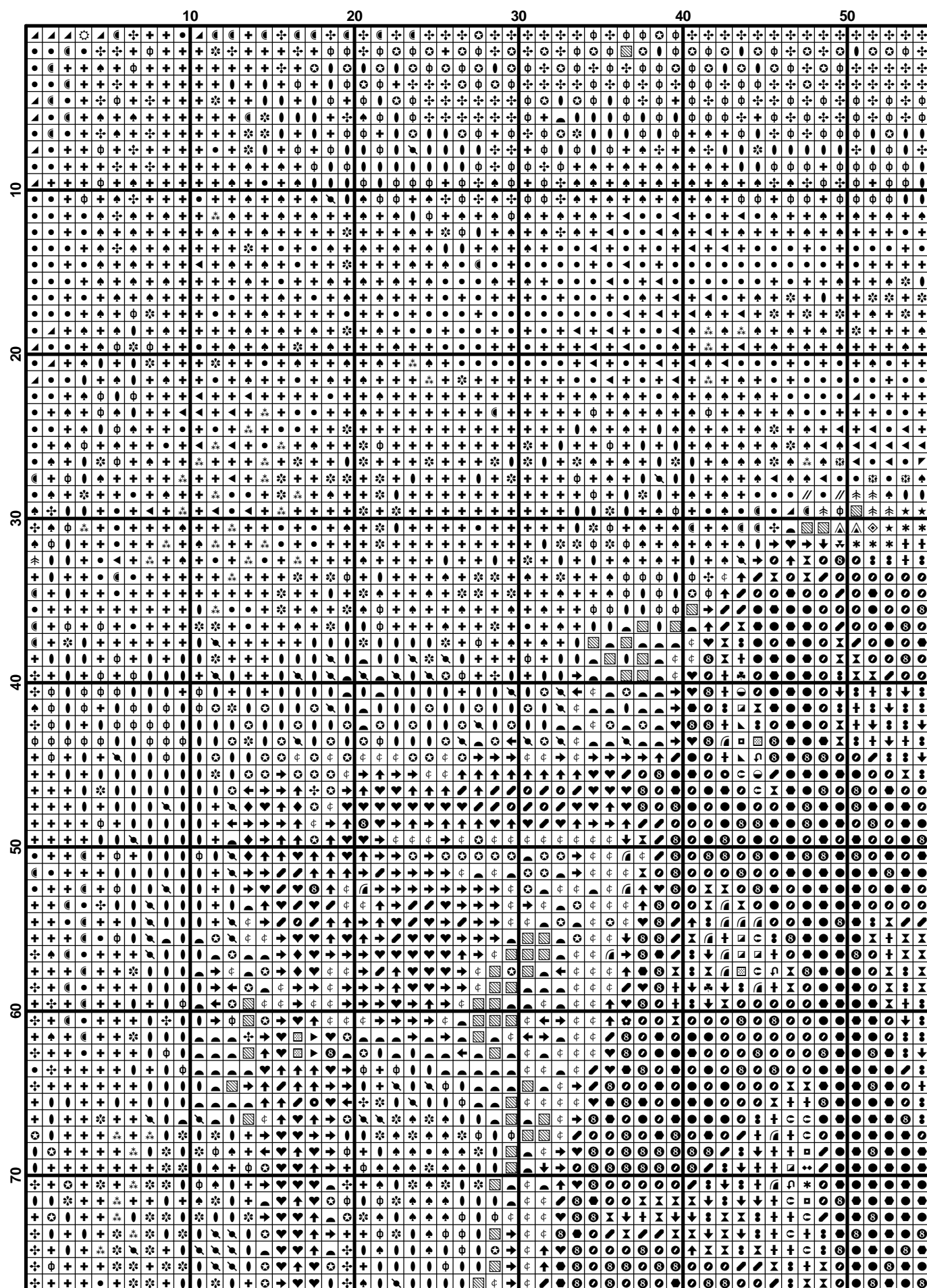
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
223	Shell Pink-LT	17	6	16	6	15	6
224	Shell Pink-VY LT	129	50	120	47	113	44
310	Black	10	4	10	4	9	3
315	Antique Mauve-VY DK	99	39	92	36	87	34
317	Pewter Gray	173	68	161	63	151	59
353	Peach	2	1	2	1	2	1
356	Terra Cotta-MD	15	6	14	5	13	5
369	Pistachio Green-VY LT	13	5	12	4	11	4
372	Mustard-LT	47	18	44	17	41	16
407	Desert Sand-DK	281	111	262	103	246	97
413	Pewter Gray-DK	254	100	237	93	222	87
415	Pearl Gray	32	12	29	11	28	11
422	Hazelnut Brown-LT	37	14	35	13	33	12
436	Tan	77	30	72	28	68	26
437	Tan-LT	91	35	85	33	79	31
452	Shell Gray-MD	51	20	48	19	45	17
500	Blue Green-VY DK	2156	849	2012	792	1887	743
501	Blue Green-DK	318	125	297	116	278	109
502	Blue Green	30	12	28	11	26	10
503	Blue Green-MD	16	6	15	5	14	5
535	Ash Gray-VY LT	299	118	279	110	262	103
543	Beige Brown-UL VY LT	37	14	34	13	32	12
610	Drab Brown-DK	226	89	211	83	197	78
611	Drab Brown	12	5	11	4	10	4
632	Desert Sand-UL VY DK	19	7	17	7	16	6
640	Beige Gray-VY DK	198	78	185	73	173	68
645	Beaver Gray-VY DK	302	118	281	110	264	104
646	Beaver Gray-DK	123	48	115	45	107	42
647	Beaver Gray-MD	86	33	80	31	75	29
648	Beaver Gray-LT	111	43	103	40	97	38
712	Cream	13	5	12	4	11	4
729	Old Gold-MD	10	4	10	4	9	3
738	Tan-VY LT	146	57	136	53	128	50
739	Tan-UL VY LT	208	82	194	76	182	71
754	Peach-LT	66	26	62	24	58	23
758	Terra Cotta-VY LT	48	19	45	17	42	16
822	Beige Gray-LT	28	10	26	10	24	9
823	Navy Blue-DK	996	392	929	365	871	343
830	Golden Olive-DK	6	2	6	2	6	2
838	Beige Brown-VY DK	30	12	28	11	26	10
839	Beige Brown-DK	627	247	586	230	549	216

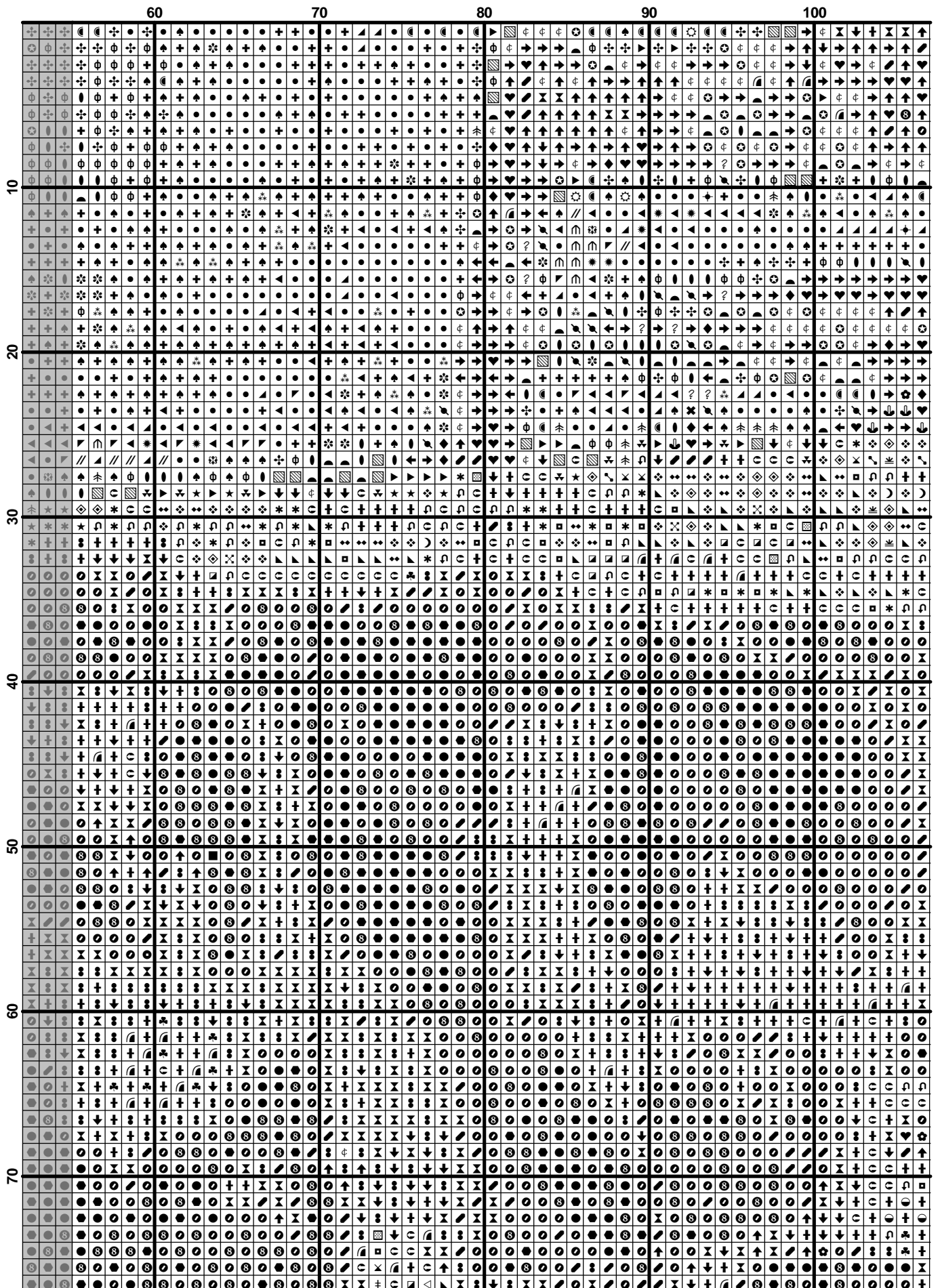
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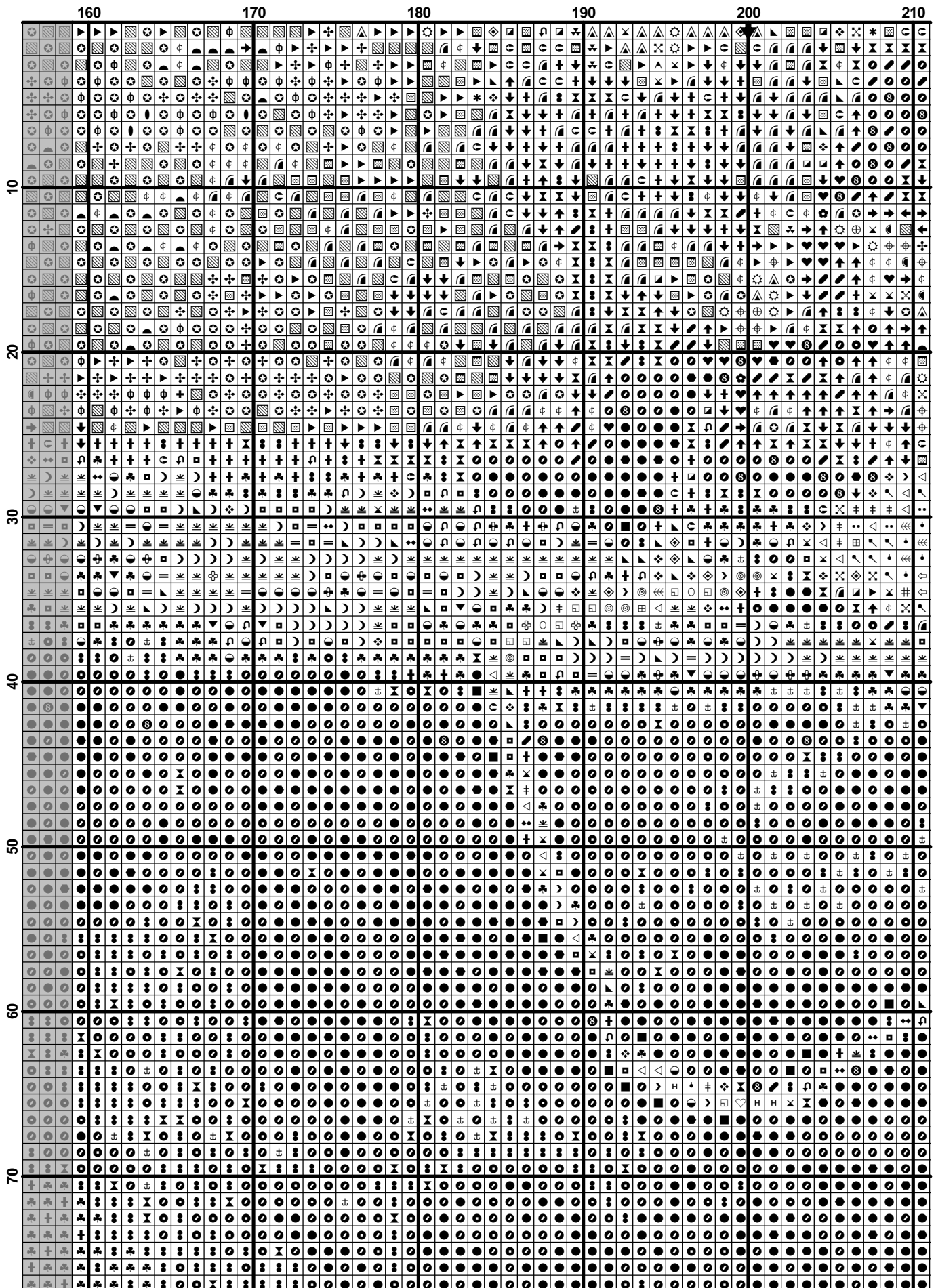
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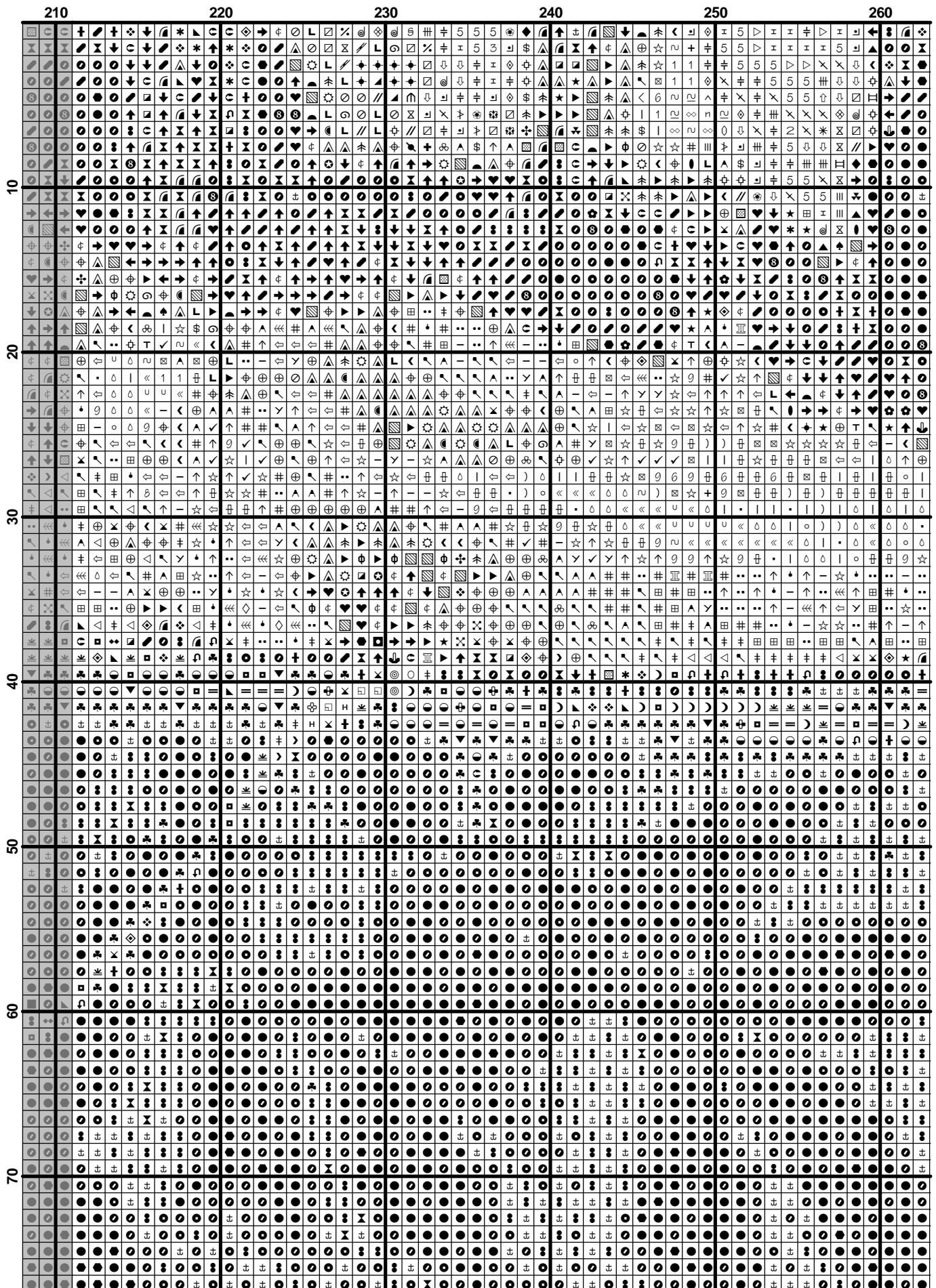
840	Beige Brown-MD	115	45	107	42	101	39
841	Beige Brown-LT	160	63	149	59	140	55
842	Beige Brown-VY LT	188	73	175	68	164	64
844	Beaver Brown-UL DK	795	313	742	292	696	274
898	Coffee Brown-VY DK	4	1	4	1	3	1
924	Gray Green--VY DK	2058	810	1921	756	1801	709
926	Gray Green-MD	120	47	112	44	105	41
927	Gray Green-LT	39	15	37	14	34	14
928	Gray Green-VY LT	41	16	38	15	36	14
930	Antique Blue-DK	148	58	138	54	129	51
931	Antique Blue-MD	9	3	8	3	8	3
932	Antique Blue-LT	14	5	13	5	12	5
934	Black Avocado Green	626	246	584	230	547	215
935	Avocado Green-DK	10	3	9	3	8	3
950	Desert Sand-LT	44	17	41	16	39	15
951	Tawny-LT	80	32	75	29	70	28
955	Nile Green-LT	28	11	26	10	25	10
964	Sea Green-LT	23	8	21	8	20	7
3021	Brown Gray-VY DK	401	158	374	147	350	138
3024	Brown Gray-VY LT	28	10	26	10	24	9
3031	Mocha Brown-VY DK	51	20	48	19	45	17
3032	Mocha Brown-MD	100	39	94	37	88	34
3041	Antique Violet-MD	35	14	33	13	31	12
3064	Desert Sand	36	14	34	13	32	12
3078	Golden Yellow-VY LT	42	16	40	15	37	14
3371	Black Brown	11	4	10	4	10	3
3721	Shell Pink-DK	15	6	14	5	13	5
3740	Antique Violet-DK	662	260	618	243	579	228
3750	Antique Blue-VY DK	249	98	232	91	218	86
3753	Antique Blue-UL VY LT	8	3	7	2	7	2
3768	Gray Green-DK	273	107	255	100	239	94
3770	Tawny-VY LT	8	3	7	2	7	2
3772	Desert Sand-VY DK	96	37	89	35	84	33
3779	Terra Cotta-UL VY LT	47	18	44	17	41	16
3781	Mocha Brown-DK	19	7	18	7	17	6
3782	Mocha Brown-LT	55	21	51	20	48	19
3787	Brown Gray-DK	304	120	284	112	266	105
3790	Beige Gray-UL DK	132	51	123	48	115	45
3799	Pewter Gray-VY DK	1238	487	1156	455	1083	426
3811	Turquoise-VY LT	6	2	5	2	5	2
3815	Celadon Green-DK	96	38	90	35	84	33
3822	Straw-LT	8	3	8	3	7	3
3825	Pumpkin-Pale	14	5	13	5	12	5
3828	Hazelnut Brown	29	11	27	10	25	10
3847	Teal Green-DK	46	18	43	17	41	16
3848	Teal Green-MD	167	65	155	61	146	57
3855	Autumn Gold-LT	19	7	17	7	16	6
3856	Mahogany-UL VY LT	122	48	113	44	106	42
3859	Rosewood-LT	8	3	7	2	7	2
3860	Cocoa	238	93	222	87	208	82
3861	Cocoa-LT	188	74	176	69	165	65
3862	Mocha Beige-DK	68	26	64	25	60	23
3863	Mocha Beige-MD	78	30	73	28	68	26
3864	Mocha Beige-LT	365	143	341	134	320	125
3866	Mocha Brown-UL VY LT	62	24	58	23	55	21

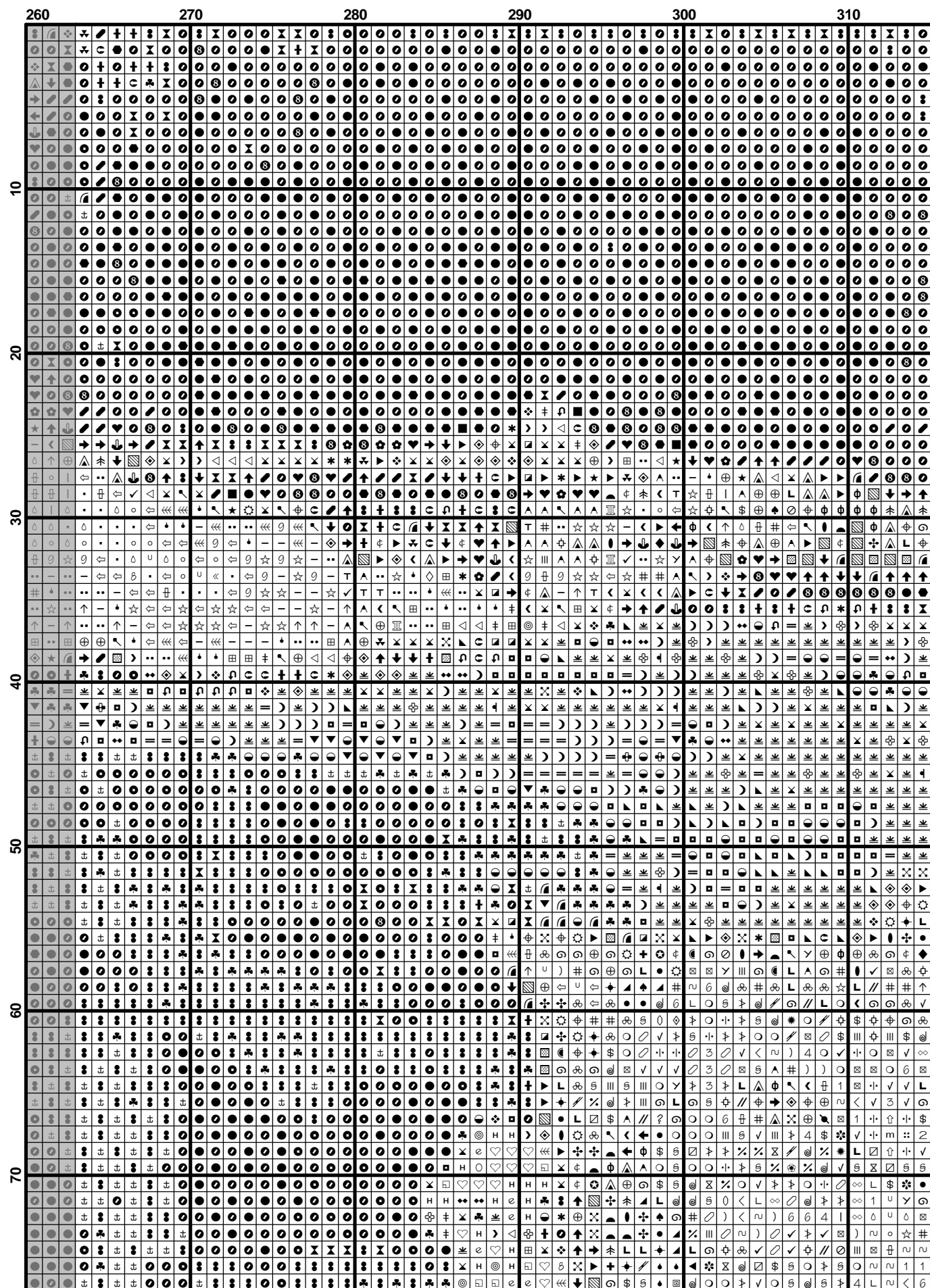




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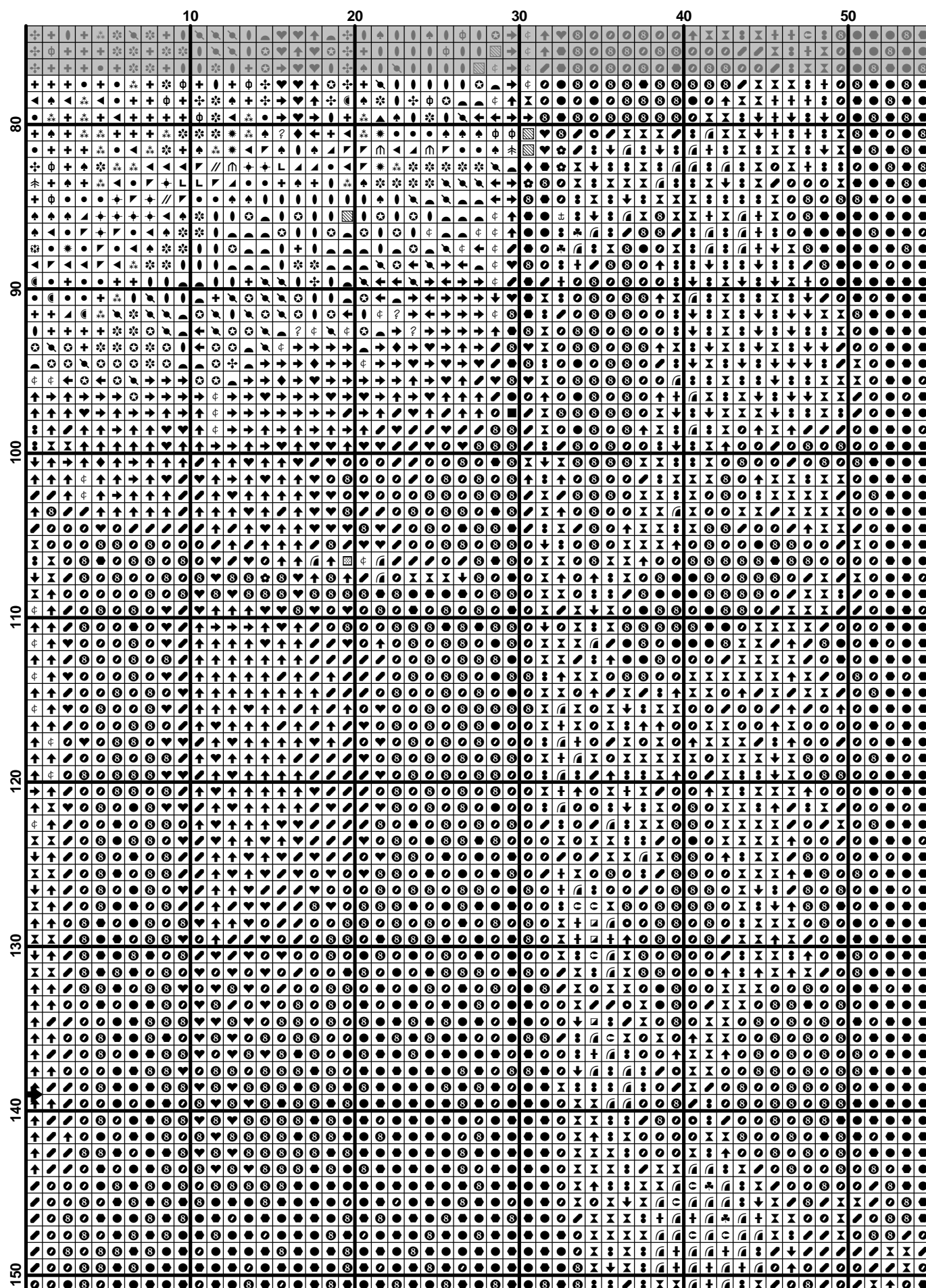


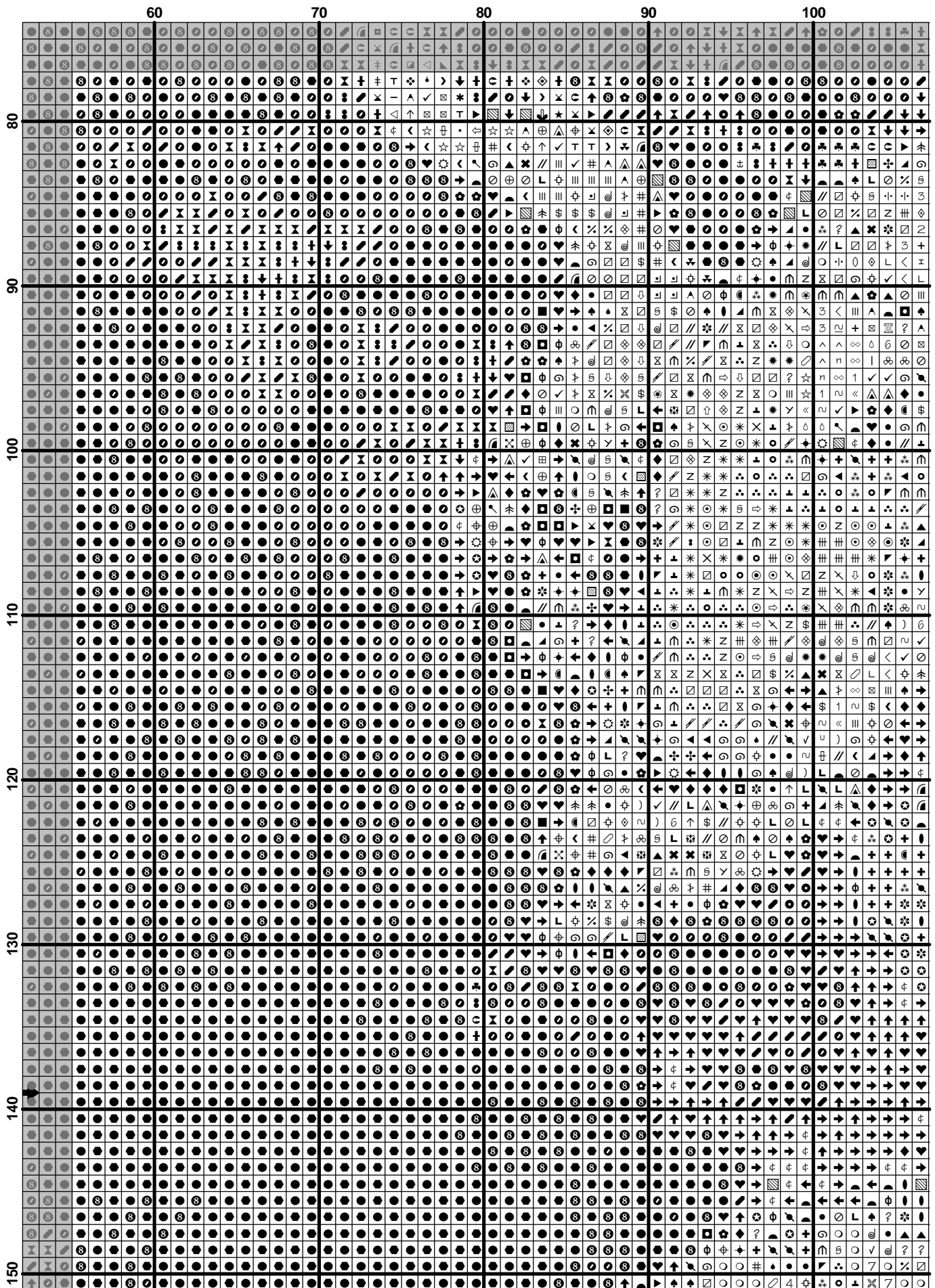




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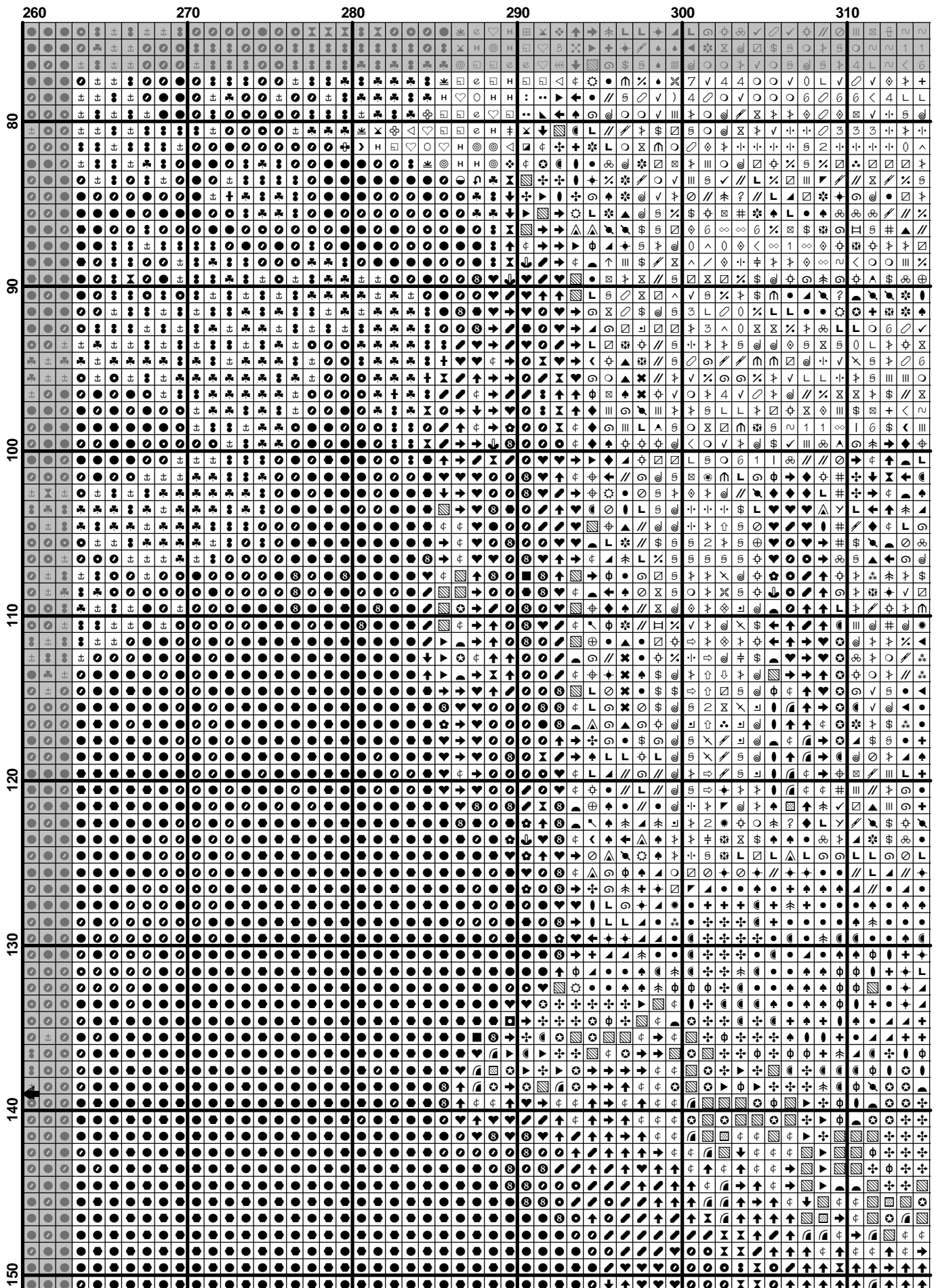


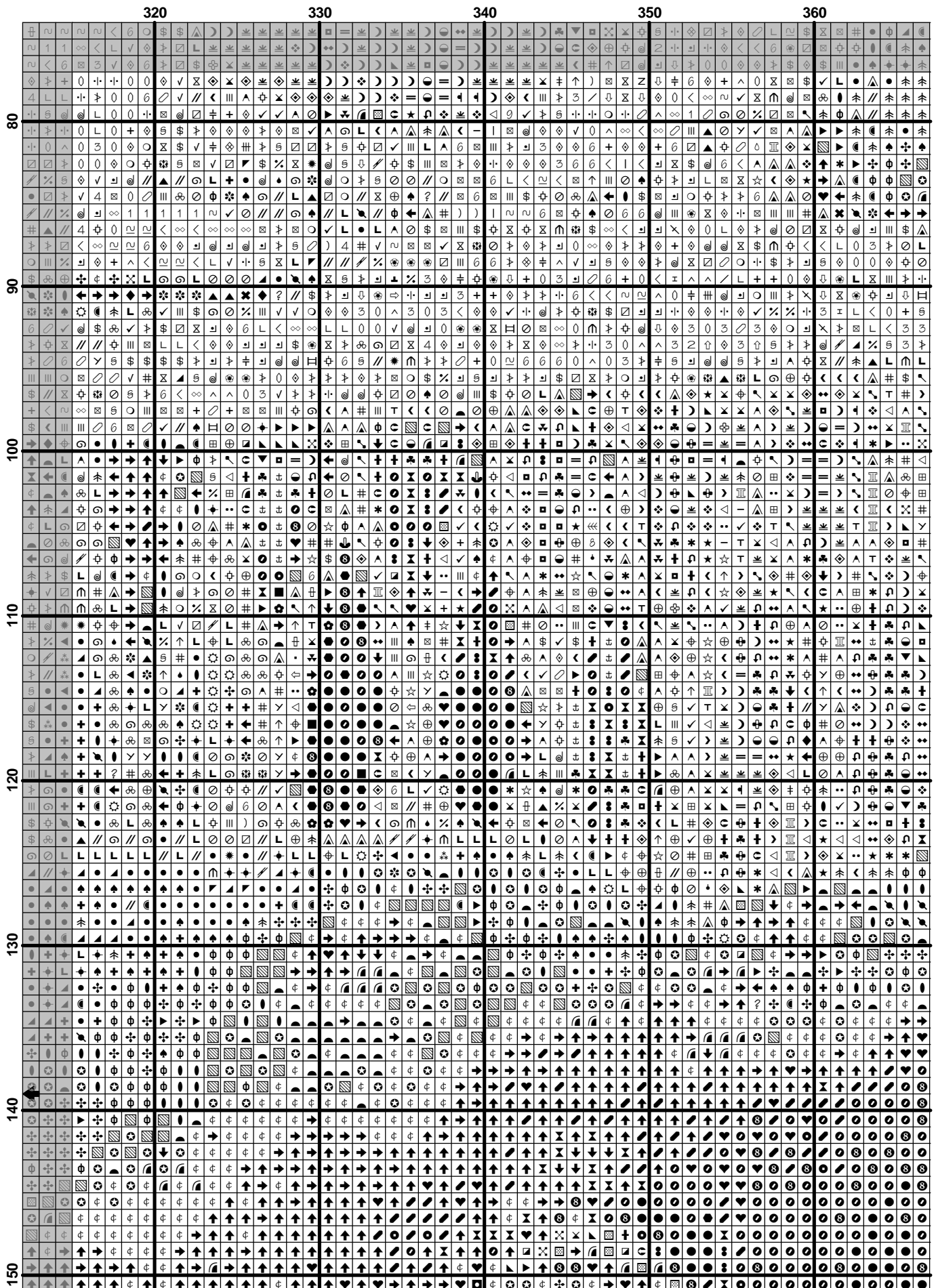


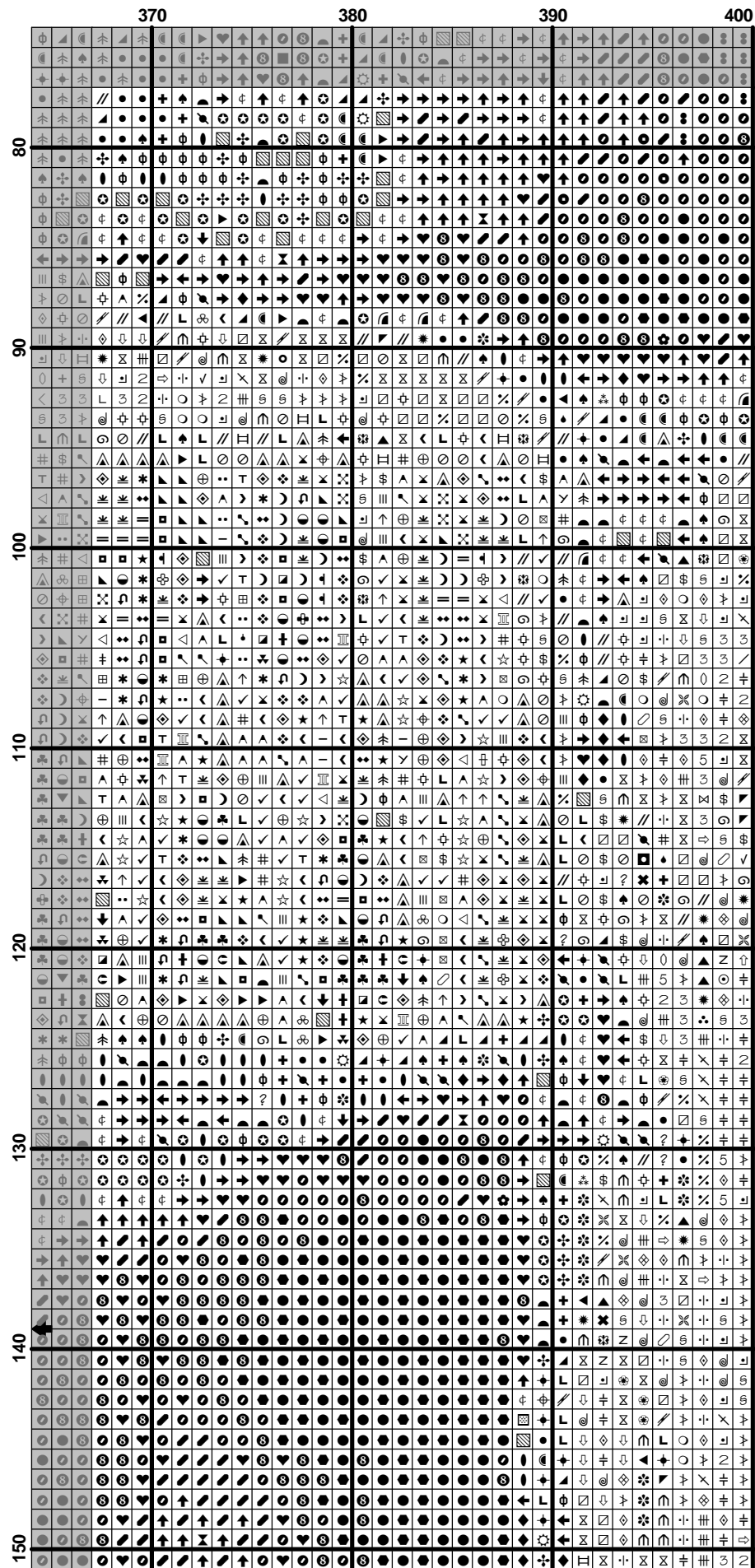
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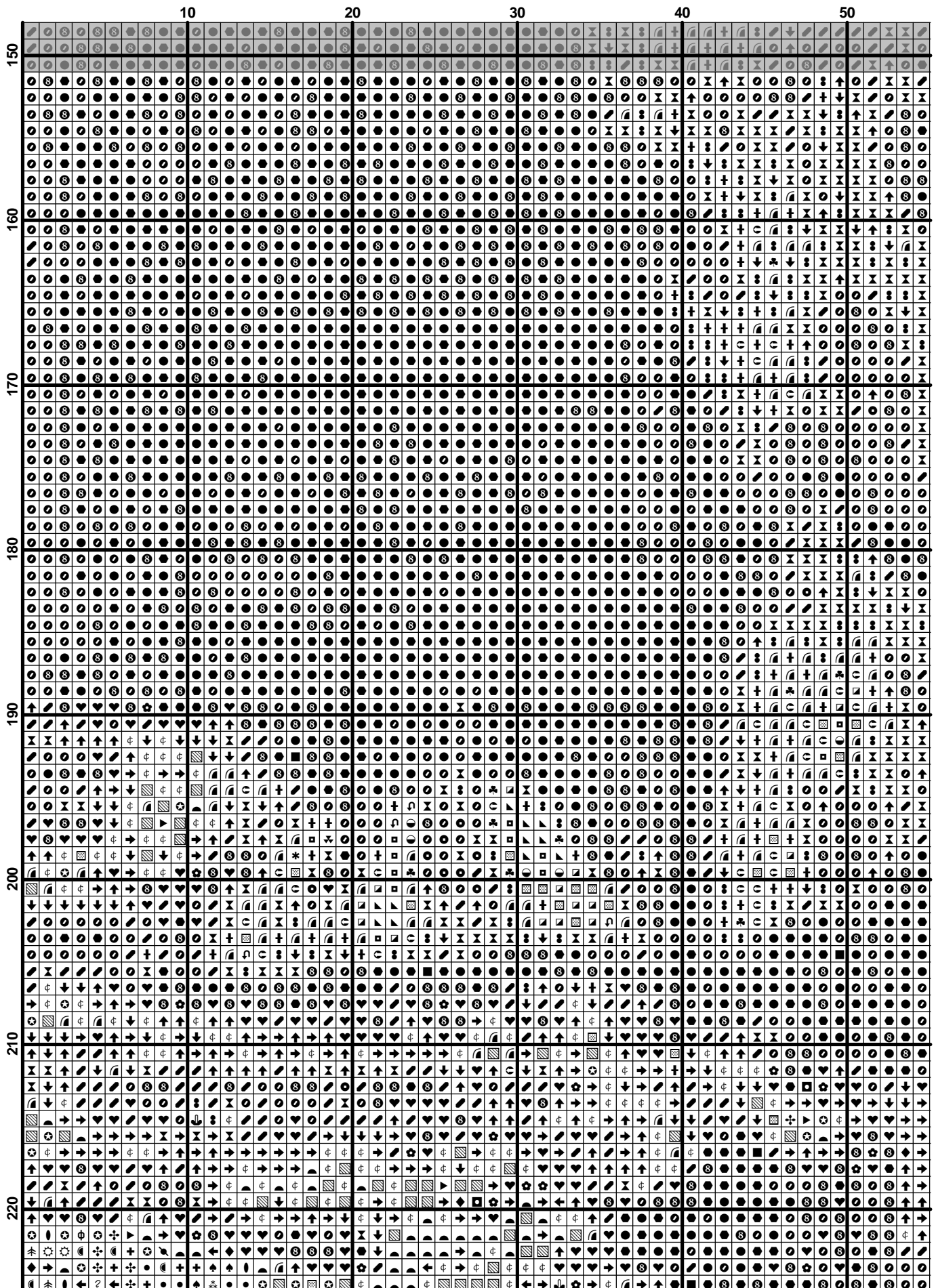
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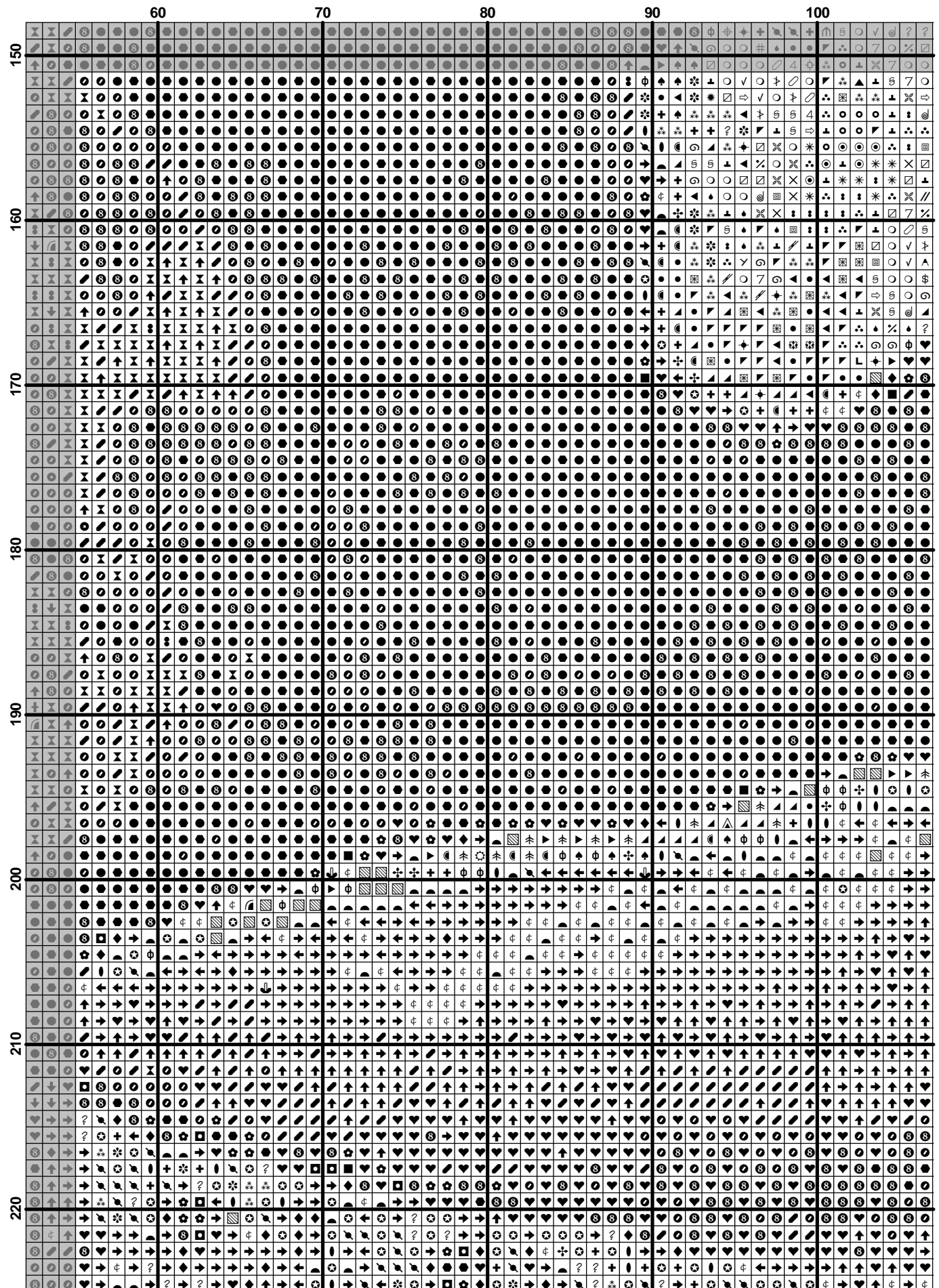
$$(21) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (22)$$





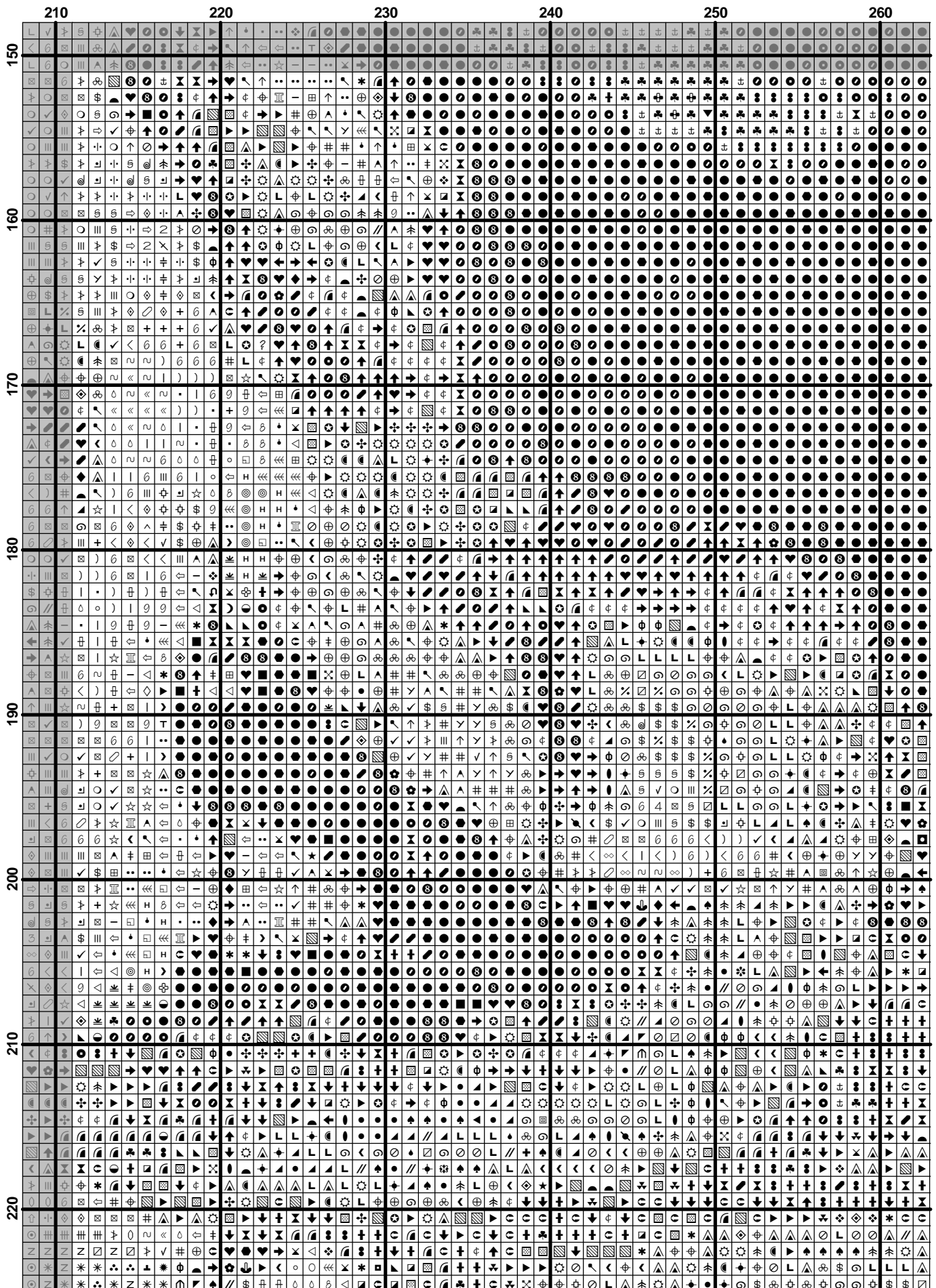






	110	120	130	140	150
150
160
170
180
190
200
210
220

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



	260	270	280	290	300	310
150						
160						
170						
180						
190						
200						
210						
220						

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