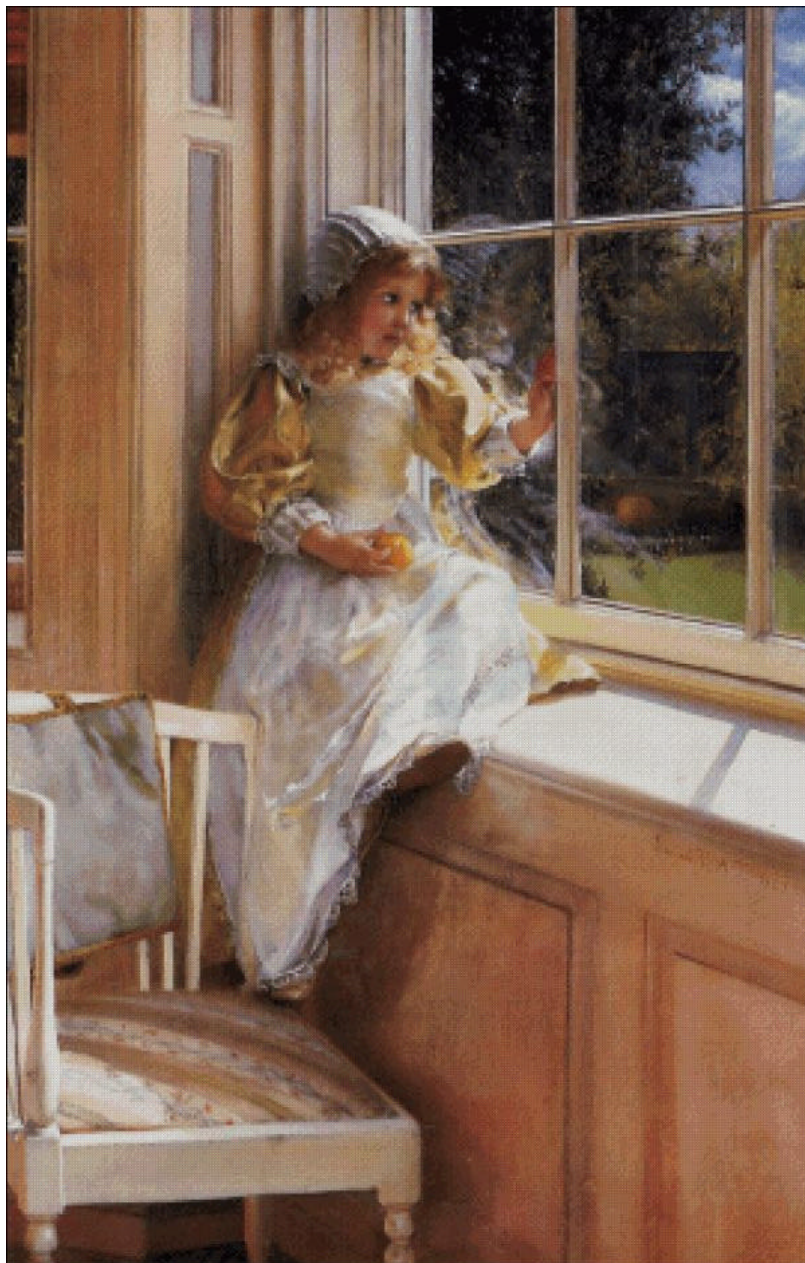


## 815 Sunshine



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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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## Sunshine

Stitch Count	
Horizontal:	270
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:	49	19.28	77	30.21	43	16.87	68	26.43	39	15	60	23.5
Including Margins:	65	26	93	37	59	23	84	33	55	22	76	30
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	68	26.99	107	42.29	57	22.49	89	35.24	28	11.24	44	17.62
Including Margins:	84	33	123	49	73	29	105	42	44	18	60	24
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	27	10.79	43	16.91	26	10.38	41	16.26	25	9.99	39	15.66
Including Margins:	43	17	59	23	42	17	57	23	41	16	55	22
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	24	9.64	38	15.1	22	8.99	35	14.09	21	8.43	33	13.21
Including Margins:	40	16	54	22	38	15	51	21	37	15	49	20

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
■	310	Black
▒	317	Pewter Gray
◊	341	Blue Violet-LT
■	356	Terra Cotta-MD
●	371	Mustard
★	407	Desert Sand-DK
✕	413	Pewter Gray-DK
◐	414	Steel Gray-DK
	415	Pearl Gray
⤵	422	Hazelnut Brown-LT
#	436	Tan
◐	451	Shell Gray-DK
Z	452	Shell Gray-MD
9	453	Shell Gray-LT
∞	543	Beige Brown-UL VY LT
←	632	Desert Sand-UL VY DK
✦	640	Beige Gray-VY DK
—	677	Old Gold-VY LT
1	712	Cream
⇒	722	Orange Spice-LT
√	739	Tan-UL VY LT
8	743	Yellow-MD
∞	758	Terra Cotta-VY LT
c	762	Pearl Gray-VY LT
::	775	Baby Blue-VY LT
H	794	Cornflower Blue-LT
=	799	Delft Blue-MD
◊	809	Delft Blue
L	819	Baby Pink-LT
=	822	Beige Gray-LT
●	838	Beige Brown-VY DK

■	839	Beige Brown-DK
☆	842	Beige Brown-VY LT
↓	844	Beaver Brown-UL DK
⊠	931	Antique Blue-MD
u	948	Peach-VY LT
T	950	Desert Sand-LT
∩	977	Golden Brown-LT
◊	3012	Khaki Green-MD
◊	3041	Antique Violet-MD
⬇	3042	Antique Violet-LT
*	3064	Desert Sand
×	3325	Baby Blue-LT
✍	3364	Pine Green
○	3747	Blue Violet-VY LT
∞	3756	Baby Blue-UL VY LT
✱	3768	Gray Green-DK
(	3770	Tawny-VY LT
⊠	3772	Desert Sand-VY DK
+	3774	Desert Sand-VY LT
➔	3787	Brown Gray-DK
●	3799	Pewter Gray-VY DK
8	3827	Golden Brown-Pale
⊕	3828	Hazelnut Brown
‡	3841	Baby Blue-Pale
⊠	3853	Autumn Gold-DK
↑	3854	Autumn Gold-MD
/	3855	Autumn Gold-LT
5	3856	Mahogany-UL VY LT
III	3858	Rosewood-MD
✕	3859	Rosewood-LT
↘	3861	Cocoa-LT
►	3863	Mocha Beige-MD
↘	3864	Mocha Beige-LT
«	3865	Winter White

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

Symbol	DMC1	Name1	DMC2	Name2
↔	3364	Pine Green	3012	Khaki Green-MD
☐	356	Terra Cotta-MD	3859	Rosewood-LT
□	415	Pearl Gray	452	Shell Gray-MD
♥	413	Pewter Gray-DK	3799	Pewter Gray-VY DK
⦿	414	Steel Gray-DK	927	Gray Green-LT
⦿	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
⦿	838	Beige Brown-VY DK	839	Beige Brown-DK
▼	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
⦿	310	Black	3021	Brown Gray-VY DK
×	407	Desert Sand-DK	437	Tan-LT
☼	371	Mustard	3863	Mocha Beige-MD
⦿	3862	Mocha Beige-DK	632	Desert Sand-UL VY DK
☼	839	Beige Brown-DK	632	Desert Sand-UL VY DK
☼	370	Mustard-MD	407	Desert Sand-DK
✱	3772	Desert Sand-VY DK	356	Terra Cotta-MD
⋮	738	Tan-VY LT	758	Terra Cotta-VY LT
♣	645	Beaver Gray-VY DK	413	Pewter Gray-DK
^	712	Cream	762	Pearl Gray-VY LT
⋮	3756	Baby Blue-UL VY LT	3865	Winter White
☼	3864	Mocha Beige-LT	407	Desert Sand-DK
☼	842	Beige Brown-VY LT	3864	Mocha Beige-LT
✱	3862	Mocha Beige-DK	3787	Brown Gray-DK
☼	3859	Rosewood-LT	451	Shell Gray-DK
⦿	3861	Cocoa-LT	647	Beaver Gray-MD
☼	451	Shell Gray-DK	647	Beaver Gray-MD
⦿	3861	Cocoa-LT	451	Shell Gray-DK
☼	3064	Desert Sand	758	Terra Cotta-VY LT
☼	356	Terra Cotta-MD	436	Tan
4	842	Beige Brown-VY LT	224	Shell Pink-VY LT
✱	3861	Cocoa-LT	3364	Pine Green
⋮	722	Orange Spice-LT	3064	Desert Sand
☼	722	Orange Spice-LT	3859	Rosewood-LT
⦿	3830	Terra Cotta-MD	632	Desert Sand-UL VY DK
⦿	3859	Rosewood-LT	3863	Mocha Beige-MD
☼	356	Terra Cotta-MD	3828	Hazelnut Brown
⋮	3772	Desert Sand-VY DK	3828	Hazelnut Brown
☼	3828	Hazelnut Brown	3064	Desert Sand
☼	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
⋮	632	Desert Sand-UL VY DK	640	Beige Gray-VY DK
☼	3863	Mocha Beige-MD	3772	Desert Sand-VY DK
×	3861	Cocoa-LT	407	Desert Sand-DK
▲	452	Shell Gray-MD	3861	Cocoa-LT
▼	452	Shell Gray-MD	842	Beige Brown-VY LT
+	640	Beige Gray-VY DK	451	Shell Gray-DK
✱	451	Shell Gray-DK	632	Desert Sand-UL VY DK
■	3799	Pewter Gray-VY DK	310	Black
☼	931	Antique Blue-MD	341	Blue Violet-LT
//	341	Blue Violet-LT	809	Delft Blue
☼	3042	Antique Violet-LT	414	Steel Gray-DK
⋮	413	Pewter Gray-DK	451	Shell Gray-DK
◆	839	Beige Brown-DK	3787	Brown Gray-DK
⦿	3031	Mocha Brown-VY DK	844	Beaver Brown-UL DK
☼	950	Desert Sand-LT	3864	Mocha Beige-LT

⌘	414	Steel Gray-DK	3787	Brown Gray-DK
↓	451	Shell Gray-DK	844	Beaver Brown-UL DK
↑	3787	Brown Gray-DK	3858	Rosewood-MD
▲	3772	Desert Sand-VY DK	3830	Terra Cotta-MD
↑	822	Beige Gray-LT	452	Shell Gray-MD
⌘	640	Beige Gray-VY DK	3787	Brown Gray-DK
∅	452	Shell Gray-MD	948	Peach-VY LT
3	3855	Autumn Gold-LT	422	Hazelnut Brown-LT
⌘	422	Hazelnut Brown-LT	738	Tan-VY LT
e	677	Old Gold-VY LT	754	Peach-LT
▲	632	Desert Sand-UL VY DK	370	Mustard-MD
◇	977	Golden Brown-LT	3821	Straw
*	3828	Hazelnut Brown	3830	Terra Cotta-MD
⌘	3859	Rosewood-LT	3364	Pine Green
▲	452	Shell Gray-MD	543	Beige Brown-UL VY LT
∨	842	Beige Brown-VY LT	739	Tan-UL VY LT
›	842	Beige Brown-VY LT	3856	Mahogany-UL VY LT
↖	422	Hazelnut Brown-LT	3012	Khaki Green-MD
◎	370	Mustard-MD	3830	Terra Cotta-MD
↖	839	Beige Brown-DK	371	Mustard
◎	977	Golden Brown-LT	3853	Autumn Gold-DK
L	3864	Mocha Beige-LT	3364	Pine Green
◎	927	Gray Green-LT	3041	Antique Violet-MD
III	437	Tan-LT	3064	Desert Sand
⅓	3064	Desert Sand	422	Hazelnut Brown-LT
◇	407	Desert Sand-DK	758	Terra Cotta-VY LT
›	3756	Baby Blue-UL VY LT	453	Shell Gray-LT
⌘	3828	Hazelnut Brown	436	Tan
♣	3856	Mahogany-UL VY LT	738	Tan-VY LT
↔	436	Tan	3859	Rosewood-LT
•	3865	Winter White	1	White 1
∴	778	Antique Mauve-VY LT	762	Pearl Gray-VY LT
≡	453	Shell Gray-LT	778	Antique Mauve-VY LT
m	415	Pearl Gray	453	Shell Gray-LT
♂	778	Antique Mauve-VY LT	3756	Baby Blue-UL VY LT
2	415	Pearl Gray	3072	Beaver Gray-VY LT
❖	3364	Pine Green	451	Shell Gray-DK
▲	632	Desert Sand-UL VY DK	3858	Rosewood-MD
)	712	Cream	822	Beige Gray-LT
✱	640	Beige Gray-VY DK	3863	Mocha Beige-MD
↑	3064	Desert Sand	3772	Desert Sand-VY DK
●	3858	Rosewood-MD	3772	Desert Sand-VY DK
♣	370	Mustard-MD	3772	Desert Sand-VY DK
■	3787	Brown Gray-DK	371	Mustard
∅	407	Desert Sand-DK	3863	Mocha Beige-MD



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	303	119	288	113	259	101
224	Shell Pink-VY LT	74	29	71	27	64	25
310	Black	899	353	856	337	771	303
317	Pewter Gray	75	29	71	27	64	25
341	Blue Violet-LT	97	38	92	36	83	32
356	Terra Cotta-MD	1111	437	1058	416	952	374
370	Mustard-MD	441	173	420	165	378	148
371	Mustard	180	70	172	67	155	61
407	Desert Sand-DK	873	343	831	327	748	294
413	Pewter Gray-DK	338	133	322	126	290	114
414	Steel Gray-DK	167	65	159	62	143	56
415	Pearl Gray	581	228	553	217	498	196
422	Hazelnut Brown-LT	227	89	216	85	195	76
436	Tan	921	362	877	345	790	311
437	Tan-LT	376	148	358	140	322	126
451	Shell Gray-DK	813	320	774	304	696	274
452	Shell Gray-MD	1499	590	1427	561	1284	505
453	Shell Gray-LT	515	202	490	192	441	173
543	Beige Brown-UL VY LT	342	134	326	128	293	115
632	Desert Sand-UL VY DK	855	336	814	320	733	288
640	Beige Gray-VY DK	513	201	488	192	439	172
645	Beaver Gray-VY DK	140	55	133	52	120	47
647	Beaver Gray-MD	136	53	130	51	117	46
677	Old Gold-VY LT	123	48	117	46	105	41
712	Cream	354	139	337	132	304	119
722	Orange Spice-LT	140	55	133	52	120	47
738	Tan-VY LT	137	53	131	51	118	46
739	Tan-UL VY LT	148	58	141	55	127	50
743	Yellow-MD	4	1	4	1	3	1
754	Peach-LT	34	13	32	12	29	11
758	Terra Cotta-VY LT	514	202	489	192	440	173
762	Pearl Gray-VY LT	386	151	367	144	331	130
775	Baby Blue-VY LT	30	11	29	11	26	10
778	Antique Mauve-VY LT	292	114	278	109	251	98
794	Cornflower Blue-LT	35	13	33	12	30	11
799	Delft Blue-MD	16	6	16	6	14	5
809	Delft Blue	35	13	33	12	30	11
819	Baby Pink-LT	237	93	226	88	203	79
822	Beige Gray-LT	356	140	339	133	305	120
838	Beige Brown-VY DK	268	105	256	100	230	90
839	Beige Brown-DK	1166	459	1111	437	1000	393
842	Beige Brown-VY LT	909	357	866	340	779	306
844	Beaver Brown-UL DK	1228	483	1170	460	1053	414
927	Gray Green-LT	50	19	48	18	43	16
931	Antique Blue-MD	35	13	33	12	30	11
948	Peach-VY LT	548	215	522	205	469	184
950	Desert Sand-LT	277	109	264	103	238	93
977	Golden Brown-LT	14	5	14	5	12	4
3012	Khaki Green-MD	163	64	155	61	139	54
3021	Brown Gray-VY DK	209	82	199	78	179	70
3031	Mocha Brown-VY DK	288	113	275	108	247	97
3041	Antique Violet-MD	91	35	87	34	78	30
3042	Antique Violet-LT	243	95	232	91	209	82
3064	Desert Sand	1432	563	1364	537	1228	483

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3072	Beaver Gray-VY LT	100	39	95	37	86	33
3325	Baby Blue-LT	44	17	41	16	37	14
3364	Pine Green	268	105	255	100	229	90
3747	Blue Violet-VY LT	58	22	56	22	50	19
3756	Baby Blue-UL VY LT	494	194	471	185	423	166
3768	Gray Green-DK	23	9	22	8	19	7
3770	Tawny-VY LT	182	71	173	68	156	61
3772	Desert Sand-VY DK	1409	554	1342	528	1208	475
3774	Desert Sand-VY LT	314	123	299	117	269	105
3787	Brown Gray-DK	942	370	897	353	807	317
3799	Pewter Gray-VY DK	999	393	951	374	856	337
3821	Straw	5	1	5	1	5	1
3827	Golden Brown-Pale	16	6	15	5	14	5
3828	Hazelnut Brown	1067	420	1016	400	914	359
3830	Terra Cotta-MD	233	91	222	87	200	78
3841	Baby Blue-Pale	36	14	34	13	31	12
3853	Autumn Gold-DK	5	1	5	1	4	1
3854	Autumn Gold-MD	2	1	2	1	2	1
3855	Autumn Gold-LT	24	9	23	9	20	7
3856	Mahogany-UL VY LT	109	42	103	40	93	36
3858	Rosewood-MD	331	130	315	124	283	111
3859	Rosewood-LT	807	317	768	302	692	272
3861	Cocoa-LT	629	247	599	235	539	212
3862	Mocha Beige-DK	198	77	188	74	170	66
3863	Mocha Beige-MD	618	243	588	231	529	208
3864	Mocha Beige-LT	990	389	943	371	848	333
3865	Winter White	1127	443	1073	422	966	380

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	466	182	389	152	194	76
224	Shell Pink-VY LT	115	45	96	38	48	19
310	Black	1388	545	1157	455	578	227
317	Pewter Gray	115	45	96	38	48	19
341	Blue Violet-LT	149	58	125	48	62	24
356	Terra Cotta-MD	1714	673	1428	561	714	281
370	Mustard-MD	680	266	567	222	284	111
371	Mustard	279	110	233	92	116	46
407	Desert Sand-DK	1346	529	1122	441	561	221
413	Pewter Gray-DK	522	205	435	171	218	86
414	Steel Gray-DK	257	101	215	84	107	42
415	Pearl Gray	896	353	747	294	374	147
422	Hazelnut Brown-LT	351	137	293	114	146	57
436	Tan	1422	560	1185	467	593	233
437	Tan-LT	580	227	483	189	242	95
451	Shell Gray-DK	1253	493	1044	411	522	206
452	Shell Gray-MD	2311	909	1926	758	963	379
453	Shell Gray-LT	794	311	662	260	331	130
543	Beige Brown-UL VY LT	527	207	440	173	220	86
632	Desert Sand-UL VY DK	1319	518	1100	432	550	216
640	Beige Gray-VY DK	790	310	659	258	329	129
645	Beaver Gray-VY DK	216	85	180	71	90	35
647	Beaver Gray-MD	211	83	176	69	88	35
677	Old Gold-VY LT	189	74	158	62	79	31
712	Cream	547	214	456	179	228	89



722	Orange Spice-LT	216	85	180	71	90	35
738	Tan-VY LT	212	83	177	69	89	35
739	Tan-UL VY LT	229	90	191	75	95	38
743	Yellow-MD	5	2	5	2	2	1
754	Peach-LT	52	20	44	17	22	8
758	Terra Cotta-VY LT	792	311	660	260	330	130
762	Pearl Gray-VY LT	596	234	497	195	248	98
775	Baby Blue-VY LT	47	18	39	15	20	8
778	Antique Mauve-VY LT	452	176	377	147	188	74
794	Cornflower Blue-LT	54	20	45	17	23	8
799	Delft Blue-MD	25	9	21	8	11	4
809	Delft Blue	54	20	45	17	23	8
819	Baby Pink-LT	365	142	305	119	152	59
822	Beige Gray-LT	549	216	458	180	229	90
838	Beige Brown-VY DK	414	162	345	135	173	68
839	Beige Brown-DK	1800	707	1500	590	750	295
842	Beige Brown-VY LT	1402	551	1169	459	584	230
844	Beaver Brown-UL DK	1895	745	1580	621	790	311
927	Gray Green-LT	77	29	65	24	32	12
931	Antique Blue-MD	54	20	45	17	23	8
948	Peach-VY LT	844	331	704	276	352	138
950	Desert Sand-LT	428	167	357	140	179	70
977	Golden Brown-LT	22	7	18	6	9	3
3012	Khaki Green-MD	250	97	209	81	104	41
3021	Brown Gray-VY DK	322	126	269	105	134	53
3031	Mocha Brown-VY DK	445	175	371	146	185	73
3041	Antique Violet-MD	140	54	117	45	59	23
3042	Antique Violet-LT	376	148	314	123	157	62
3064	Desert Sand	2210	869	1842	725	921	362
3072	Beaver Gray-VY LT	155	59	129	50	65	25
3325	Baby Blue-LT	67	25	56	21	28	11
3364	Pine Green	412	162	344	135	172	68
3747	Blue Violet-VY LT	90	34	75	29	38	14
3756	Baby Blue-UL VY LT	761	299	635	249	317	125
3768	Gray Green-DK	34	13	29	11	14	5
3770	Tawny-VY LT	281	110	234	92	117	46
3772	Desert Sand-VY DK	2174	855	1812	713	906	356
3774	Desert Sand-VY LT	484	189	404	158	202	79
3787	Brown Gray-DK	1453	571	1211	476	605	238
3799	Pewter Gray-VY DK	1541	607	1284	506	642	253
3821	Straw	9	2	8	2	4	1
3827	Golden Brown-Pale	25	9	21	8	11	4
3828	Hazelnut Brown	1645	646	1371	539	686	269
3830	Terra Cotta-MD	360	140	300	117	150	59
3841	Baby Blue-Pale	56	22	47	18	23	9
3853	Autumn Gold-DK	7	2	6	2	3	1
3854	Autumn Gold-MD	4	2	3	2	2	1
3855	Autumn Gold-LT	36	13	30	11	15	5
3856	Mahogany-UL VY LT	167	65	140	54	70	27
3858	Rosewood-MD	509	200	425	167	212	83
3859	Rosewood-LT	1246	490	1038	408	519	204
3861	Cocoa-LT	970	382	809	318	404	159
3862	Mocha Beige-DK	306	119	255	99	128	50
3863	Mocha Beige-MD	952	374	794	312	397	156
3864	Mocha Beige-LT	1526	599	1272	500	636	250
3865	Winter White	1739	684	1449	570	725	285

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	186	73	179	70	173	67
224	Shell Pink-VY LT	46	18	44	17	43	17
310	Black	555	218	534	210	514	202
317	Pewter Gray	46	18	44	17	43	17
341	Blue Violet-LT	60	23	57	22	55	21
356	Terra Cotta-MD	685	269	659	259	635	249
370	Mustard-MD	272	107	262	102	252	99
371	Mustard	112	44	107	42	103	41
407	Desert Sand-DK	539	212	518	204	499	196
413	Pewter Gray-DK	209	82	201	79	193	76
414	Steel Gray-DK	103	40	99	39	95	37
415	Pearl Gray	359	141	345	136	332	131
422	Hazelnut Brown-LT	140	55	135	53	130	51
436	Tan	569	224	547	215	527	207
437	Tan-LT	232	91	223	87	215	84
451	Shell Gray-DK	501	197	482	190	464	183
452	Shell Gray-MD	924	364	889	350	856	337
453	Shell Gray-LT	318	125	305	120	294	115
543	Beige Brown-UL VY LT	211	83	203	80	195	77
632	Desert Sand-UL VY DK	528	207	507	199	489	192
640	Beige Gray-VY DK	316	124	304	119	293	115
645	Beaver Gray-VY DK	86	34	83	33	80	31
647	Beaver Gray-MD	84	33	81	32	78	31
677	Old Gold-VY LT	76	30	73	28	70	27
712	Cream	219	86	210	82	203	79
722	Orange Spice-LT	86	34	83	33	80	31
738	Tan-VY LT	85	33	82	32	79	31
739	Tan-UL VY LT	91	36	88	35	85	33
743	Yellow-MD	2	1	2	1	2	1
754	Peach-LT	21	8	20	8	19	7
758	Terra Cotta-VY LT	317	125	305	120	293	115
762	Pearl Gray-VY LT	238	94	229	90	221	87
775	Baby Blue-VY LT	19	7	18	7	17	7
778	Antique Mauve-VY LT	181	71	174	68	167	65
794	Cornflower Blue-LT	22	8	21	8	20	7
799	Delft Blue-MD	10	4	10	3	9	3
809	Delft Blue	22	8	21	8	20	7
819	Baby Pink-LT	146	57	141	55	135	53
822	Beige Gray-LT	220	86	211	83	203	80
838	Beige Brown-VY DK	166	65	159	62	153	60
839	Beige Brown-DK	720	283	692	272	667	262
842	Beige Brown-VY LT	561	220	539	212	519	204
844	Beaver Brown-UL DK	758	298	729	287	702	276
927	Gray Green-LT	31	12	30	11	29	11
931	Antique Blue-MD	22	8	21	8	20	7
948	Peach-VY LT	338	132	325	127	313	123
950	Desert Sand-LT	171	67	165	64	159	62
977	Golden Brown-LT	9	3	8	3	8	3
3012	Khaki Green-MD	100	39	96	37	93	36
3021	Brown Gray-VY DK	129	50	124	48	119	47
3031	Mocha Brown-VY DK	178	70	171	67	165	65
3041	Antique Violet-MD	56	22	54	21	52	20
3042	Antique Violet-LT	150	59	145	57	139	55
3064	Desert Sand	884	348	850	334	819	322

3072	Beaver Gray-VY LT	62	24	60	23	57	22
3325	Baby Blue-LT	27	10	26	10	25	9
3364	Pine Green	165	65	159	62	153	60
3747	Blue Violet-VY LT	36	14	35	13	33	13
3756	Baby Blue-UL VY LT	305	120	293	115	282	111
3768	Gray Green-DK	14	5	13	5	13	5
3770	Tawny-VY LT	112	44	108	42	104	41
3772	Desert Sand-VY DK	870	342	836	329	805	317
3774	Desert Sand-VY LT	194	76	186	73	179	70
3787	Brown Gray-DK	581	228	559	219	538	211
3799	Pewter Gray-VY DK	616	243	593	233	571	225
3821	Straw	4	1	3	1	3	1
3827	Golden Brown-Pale	10	4	10	3	9	3
3828	Hazelnut Brown	658	258	633	249	609	239
3830	Terra Cotta-MD	144	56	138	54	133	52
3841	Baby Blue-Pale	22	9	21	8	21	8
3853	Autumn Gold-DK	3	1	3	1	3	1
3854	Autumn Gold-MD	1	1	1	1	1	1
3855	Autumn Gold-LT	14	5	14	5	13	5
3856	Mahogany-UL VY LT	67	26	64	25	62	24
3858	Rosewood-MD	204	80	196	77	189	74
3859	Rosewood-LT	498	196	479	188	461	181
3861	Cocoa-LT	388	153	373	147	359	141
3862	Mocha Beige-DK	122	48	118	46	113	44
3863	Mocha Beige-MD	381	150	366	144	353	139
3864	Mocha Beige-LT	611	240	587	231	565	222
3865	Winter White	696	274	669	263	644	253

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	167	65	155	61	146	57
224	Shell Pink-VY LT	41	16	38	15	36	14
310	Black	496	195	463	182	434	170
317	Pewter Gray	41	16	38	15	36	14
341	Blue Violet-LT	53	21	50	19	47	18
356	Terra Cotta-MD	612	240	571	224	536	210
370	Mustard-MD	243	95	227	89	213	83
371	Mustard	100	39	93	37	87	34
407	Desert Sand-DK	481	189	449	176	421	165
413	Pewter Gray-DK	186	73	174	68	163	64
414	Steel Gray-DK	92	36	86	34	80	32
415	Pearl Gray	320	126	299	118	280	110
422	Hazelnut Brown-LT	125	49	117	46	110	43
436	Tan	508	200	474	187	444	175
437	Tan-LT	207	81	193	76	181	71
451	Shell Gray-DK	447	176	418	164	392	154
452	Shell Gray-MD	825	325	770	303	722	284
453	Shell Gray-LT	284	111	265	104	248	97
543	Beige Brown-UL VY LT	188	74	176	69	165	65
632	Desert Sand-UL VY DK	471	185	440	173	412	162
640	Beige Gray-VY DK	282	111	263	103	247	97
645	Beaver Gray-VY DK	77	30	72	28	68	26
647	Beaver Gray-MD	75	30	70	28	66	26
677	Old Gold-VY LT	68	26	63	25	59	23
712	Cream	195	77	182	71	171	67
722	Orange Spice-LT	77	30	72	28	68	26

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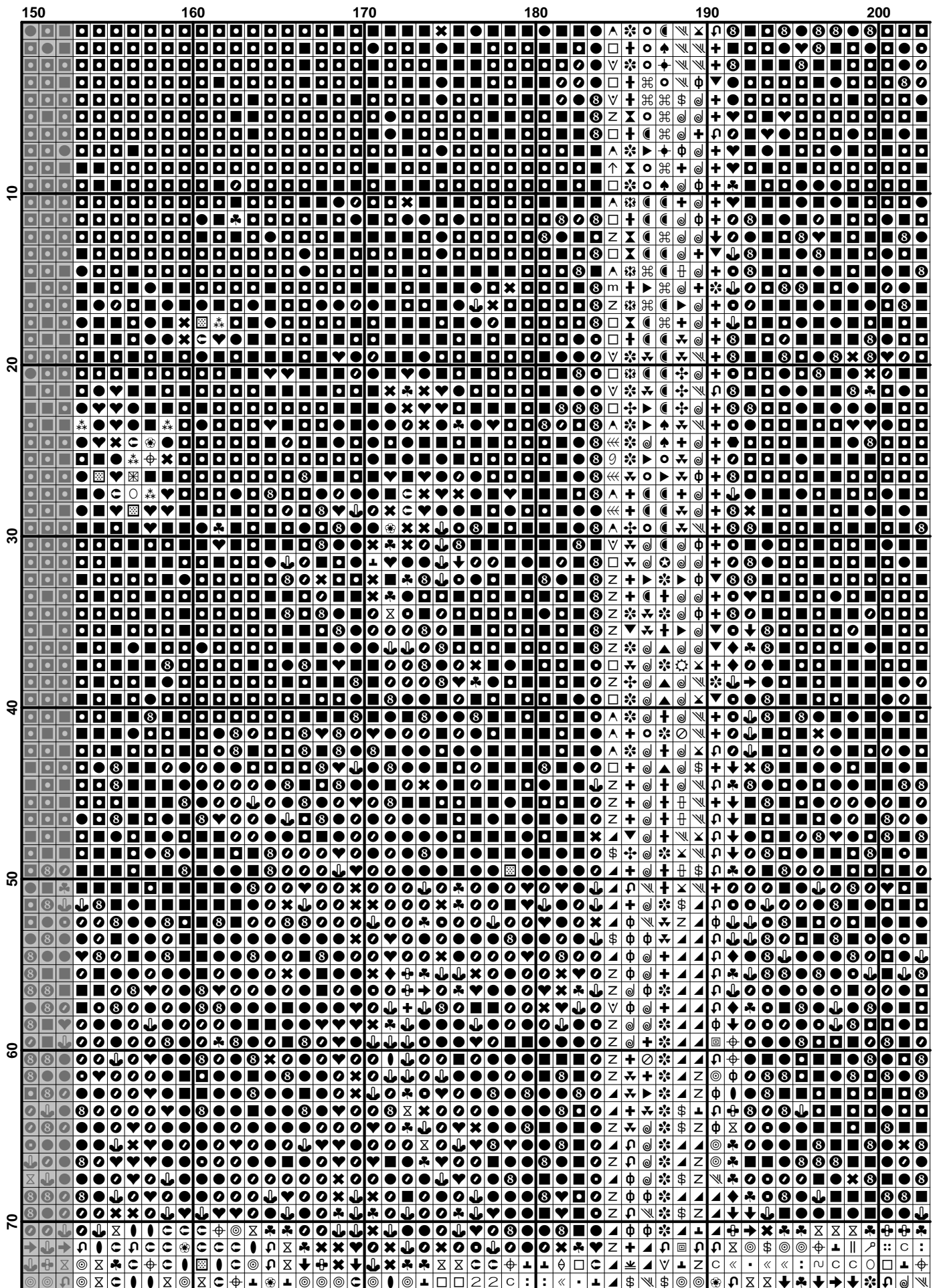
738	Tan-VY LT	76	30	71	28	66	26
739	Tan-UL VY LT	82	32	76	30	71	28
743	Yellow-MD	2	1	2	1	2	1
754	Peach-LT	19	7	17	7	16	6
758	Terra Cotta-VY LT	283	111	264	104	248	97
762	Pearl Gray-VY LT	213	84	199	78	186	73
775	Baby Blue-VY LT	17	6	16	6	15	6
778	Antique Mauve-VY LT	161	63	151	59	141	55
794	Cornflower Blue-LT	19	7	18	7	17	6
799	Delft Blue-MD	9	3	8	3	8	3
809	Delft Blue	19	7	18	7	17	6
819	Baby Pink-LT	131	51	122	47	114	44
822	Beige Gray-LT	196	77	183	72	172	68
838	Beige Brown-VY DK	148	58	138	54	129	51
839	Beige Brown-DK	643	253	600	236	563	221
842	Beige Brown-VY LT	501	197	467	184	438	172
844	Beaver Brown-UL DK	677	266	632	248	592	233
927	Gray Green-LT	28	10	26	10	24	9
931	Antique Blue-MD	19	7	18	7	17	6
948	Peach-VY LT	302	118	281	110	264	104
950	Desert Sand-LT	153	60	143	56	134	52
977	Golden Brown-LT	8	3	7	2	7	2
3012	Khaki Green-MD	89	35	83	32	78	30
3021	Brown Gray-VY DK	115	45	107	42	101	39
3031	Mocha Brown-VY DK	159	62	148	58	139	55
3041	Antique Violet-MD	50	19	47	18	44	17
3042	Antique Violet-LT	134	53	125	49	118	46
3064	Desert Sand	789	311	737	290	691	272
3072	Beaver Gray-VY LT	55	21	52	20	48	19
3325	Baby Blue-LT	24	9	22	8	21	8
3364	Pine Green	147	58	137	54	129	51
3747	Blue Violet-VY LT	32	12	30	11	28	11
3756	Baby Blue-UL VY LT	272	107	254	100	238	93
3768	Gray Green-DK	12	5	11	4	11	4
3770	Tawny-VY LT	100	39	94	37	88	34
3772	Desert Sand-VY DK	777	305	725	285	680	267
3774	Desert Sand-VY LT	173	68	161	63	151	59
3787	Brown Gray-DK	519	204	484	190	454	178
3799	Pewter Gray-VY DK	550	217	514	202	482	190
3821	Straw	3	1	3	1	3	1
3827	Golden Brown-Pale	9	3	8	3	8	3
3828	Hazelnut Brown	588	231	548	215	514	202
3830	Terra Cotta-MD	129	50	120	47	113	44
3841	Baby Blue-Pale	20	8	19	7	17	7
3853	Autumn Gold-DK	3	1	2	1	2	1
3854	Autumn Gold-MD	1	1	1	1	1	1
3855	Autumn Gold-LT	13	5	12	4	11	4
3856	Mahogany-UL VY LT	60	23	56	22	52	20
3858	Rosewood-MD	182	71	170	67	159	62
3859	Rosewood-LT	445	175	415	163	389	153
3861	Cocoa-LT	347	136	323	127	303	119
3862	Mocha Beige-DK	109	42	102	40	96	37
3863	Mocha Beige-MD	340	134	317	125	298	117
3864	Mocha Beige-LT	545	214	509	200	477	187
3865	Winter White	621	244	580	228	543	214

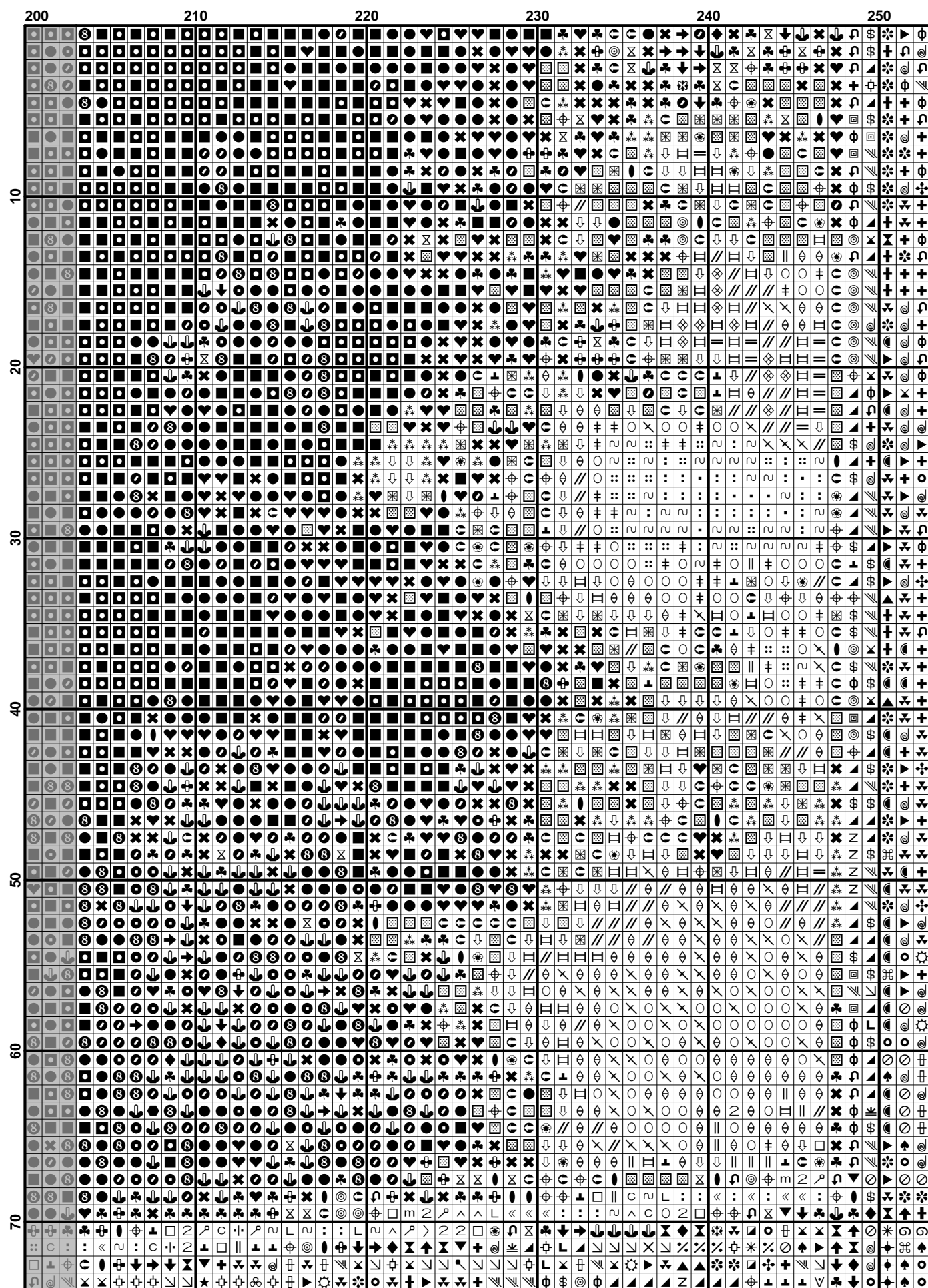
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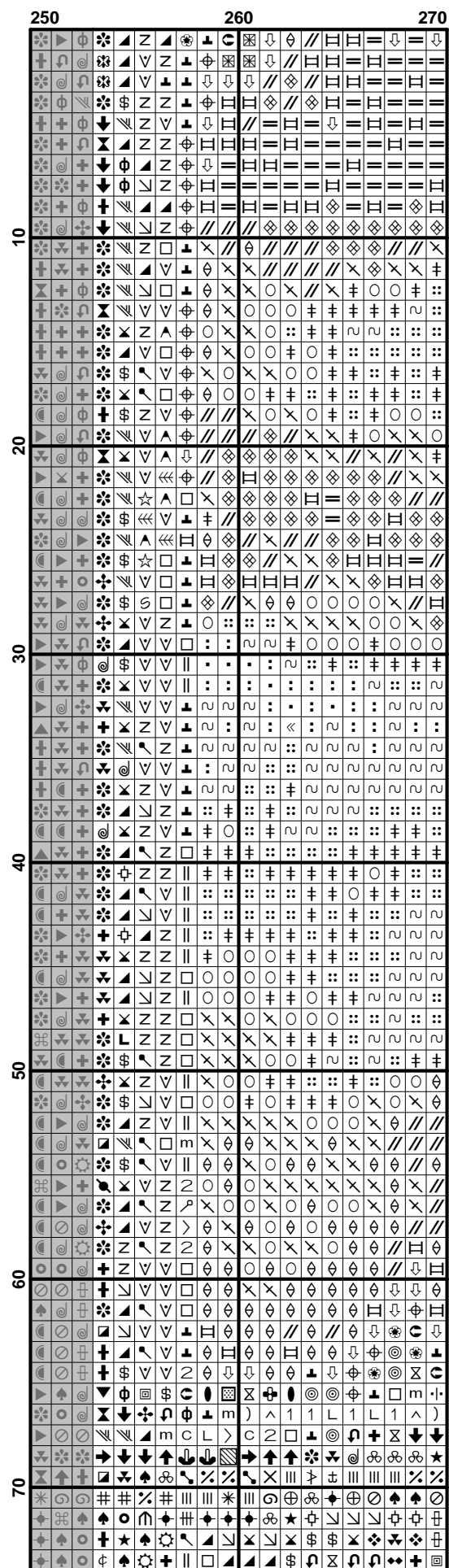
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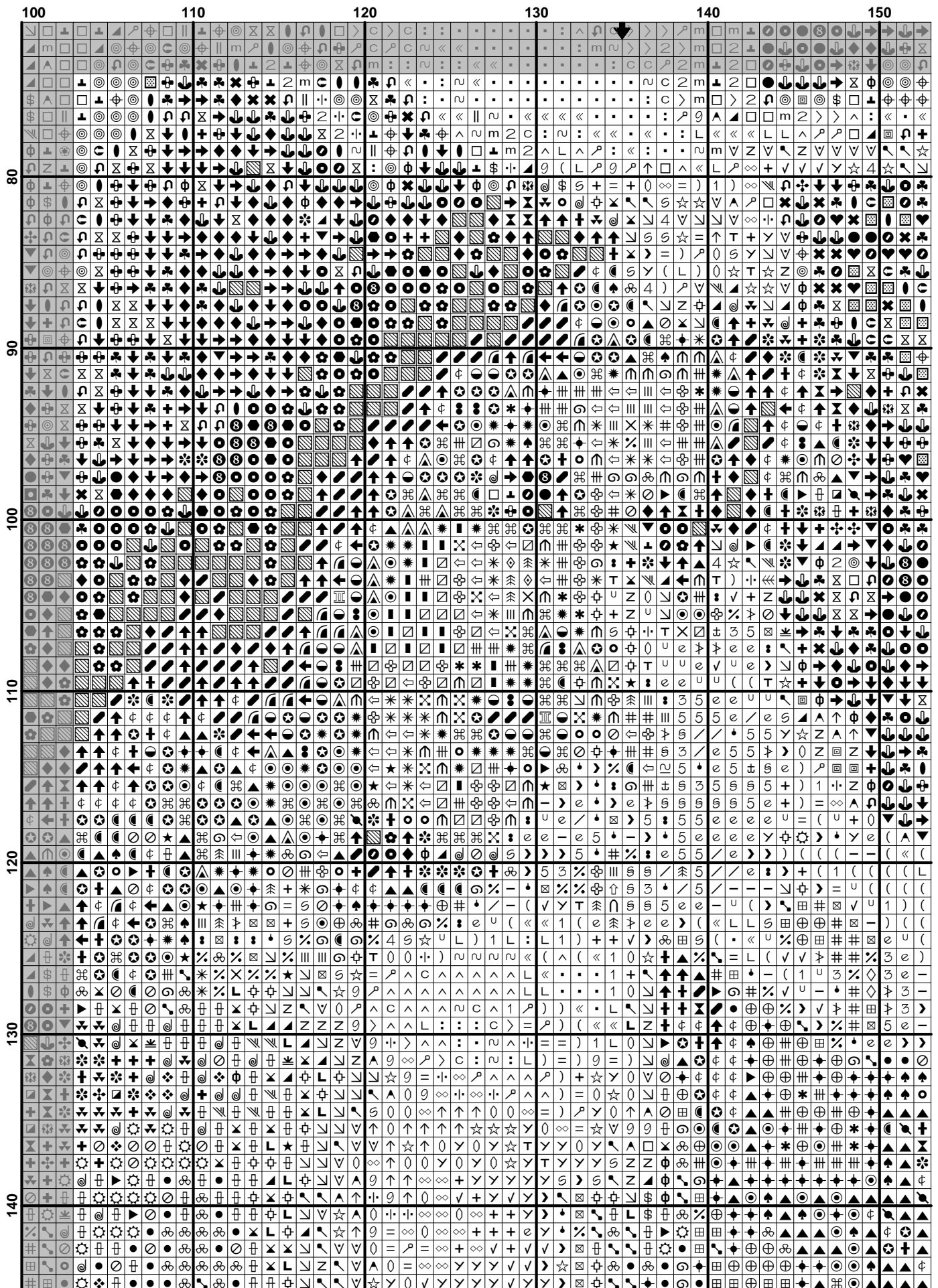


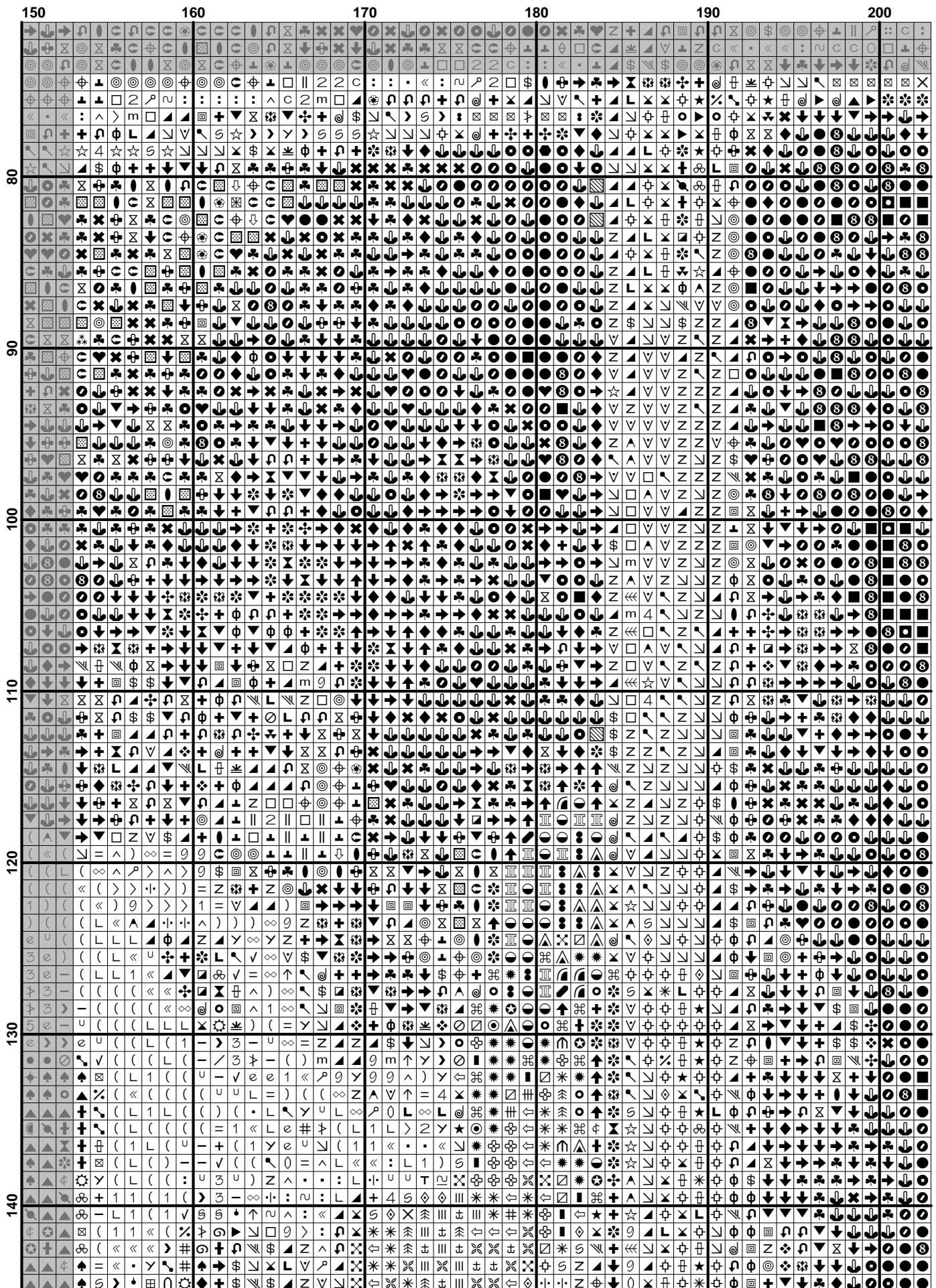


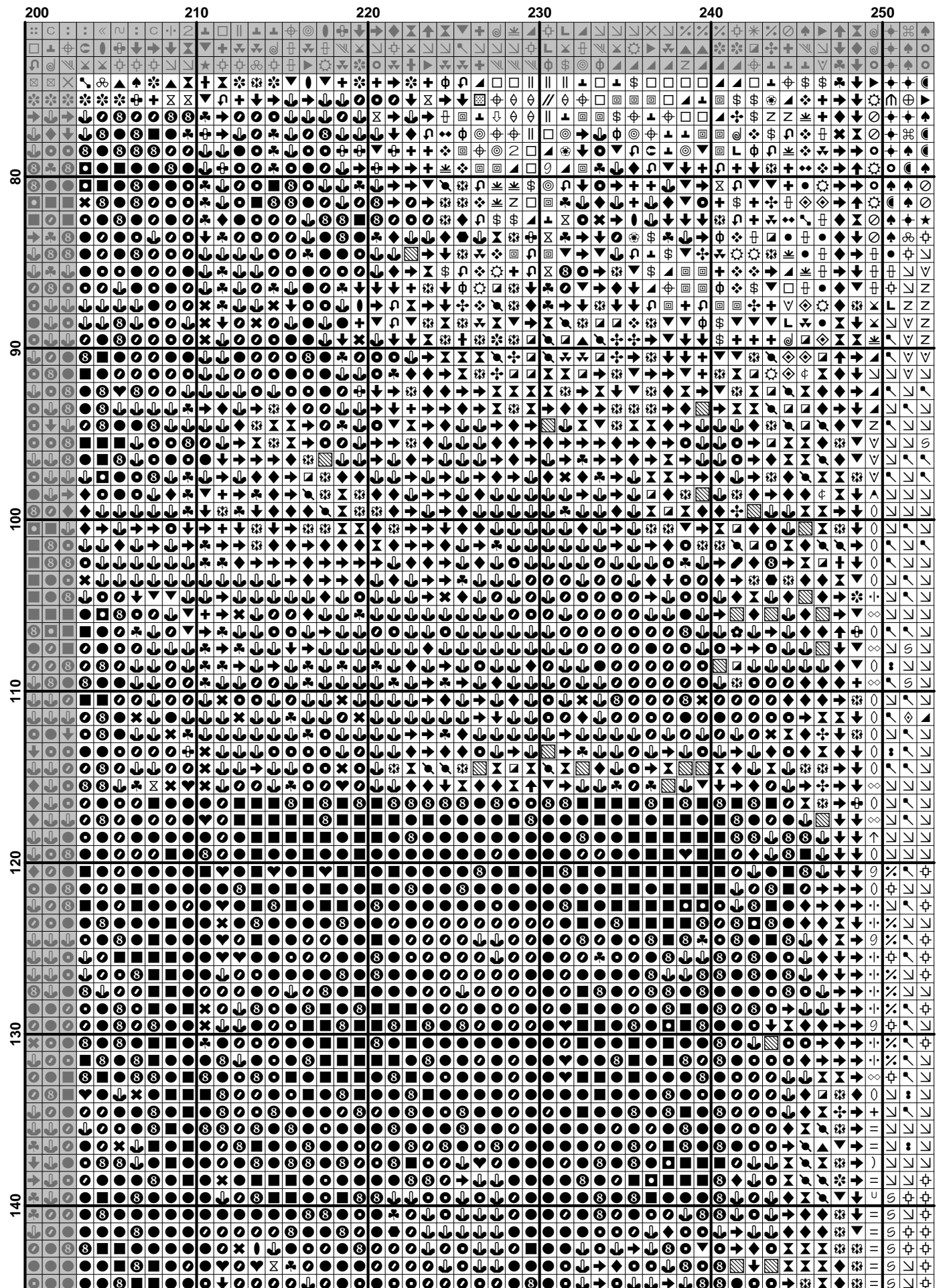
$$(13) \quad \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

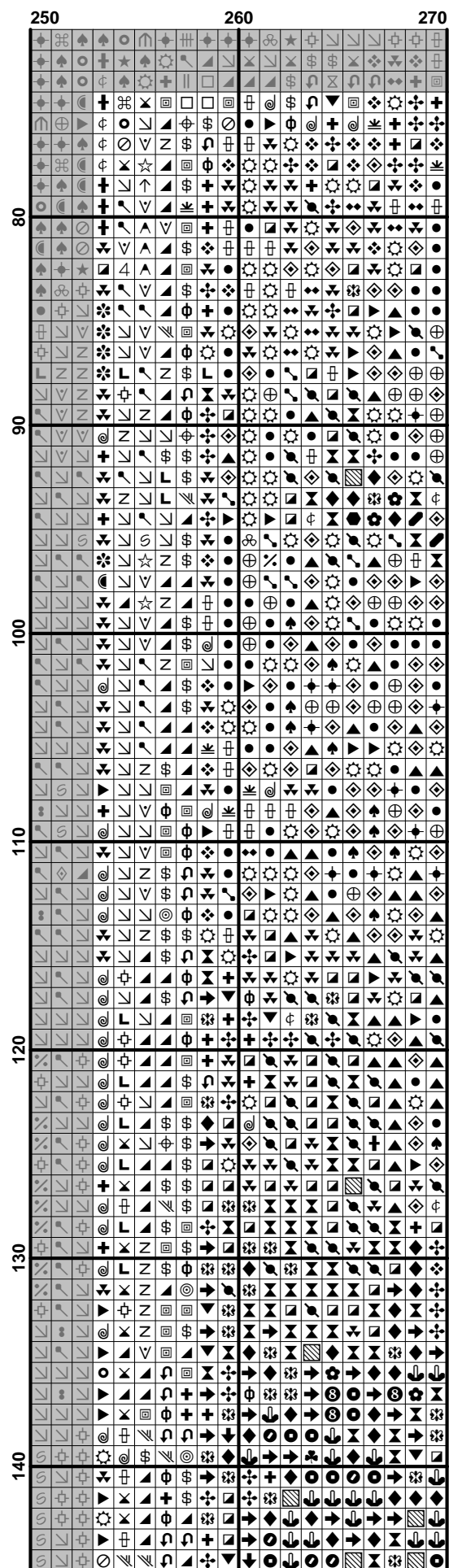
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90	+	+	+	+	+	+
100	+	+	+	+	+	+
110	+	+	+	+	+	+
120	+	+	+	+	+	+
130	+	+	+	+	+	+
140	+	+	+	+	+	+

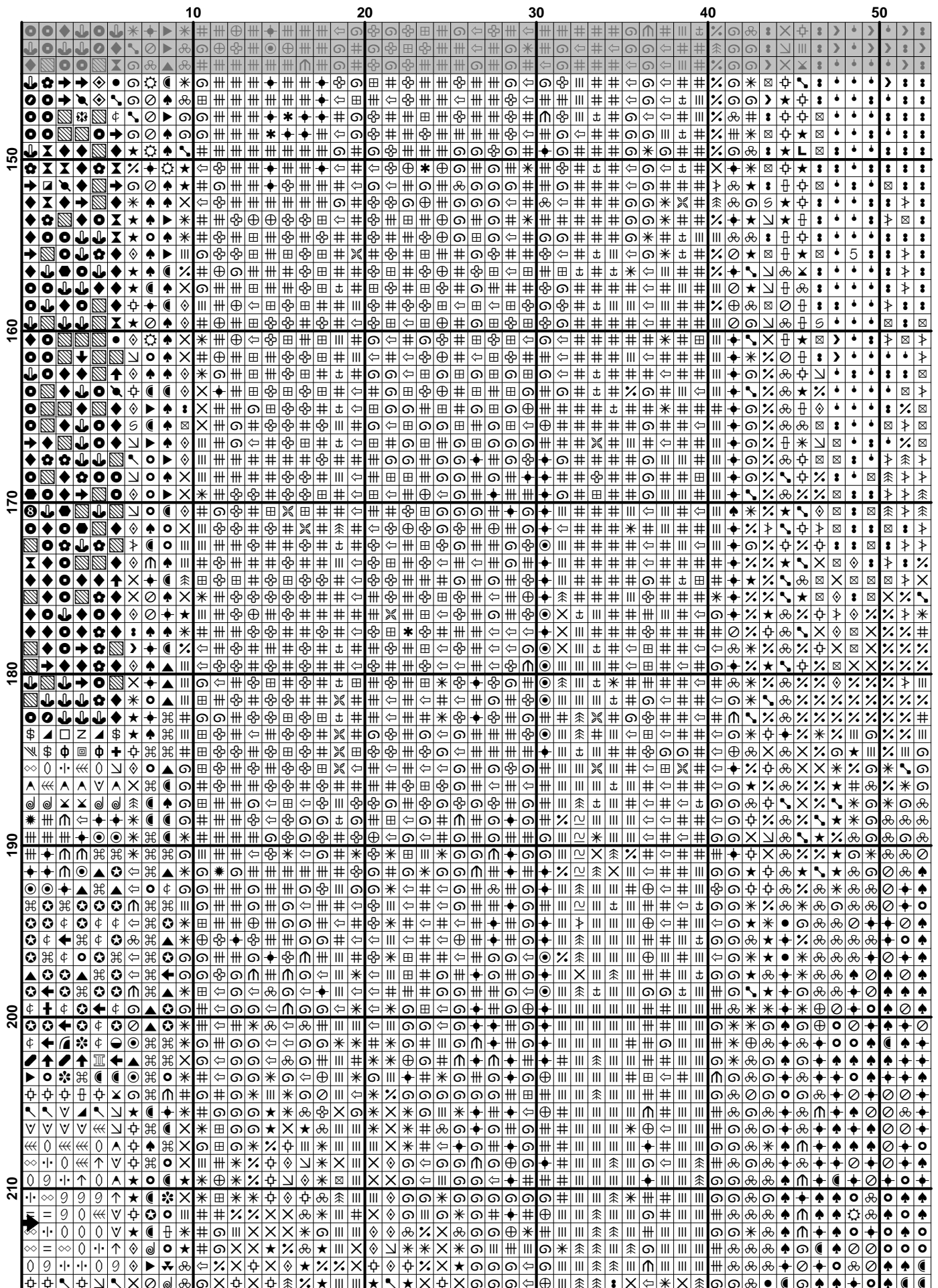










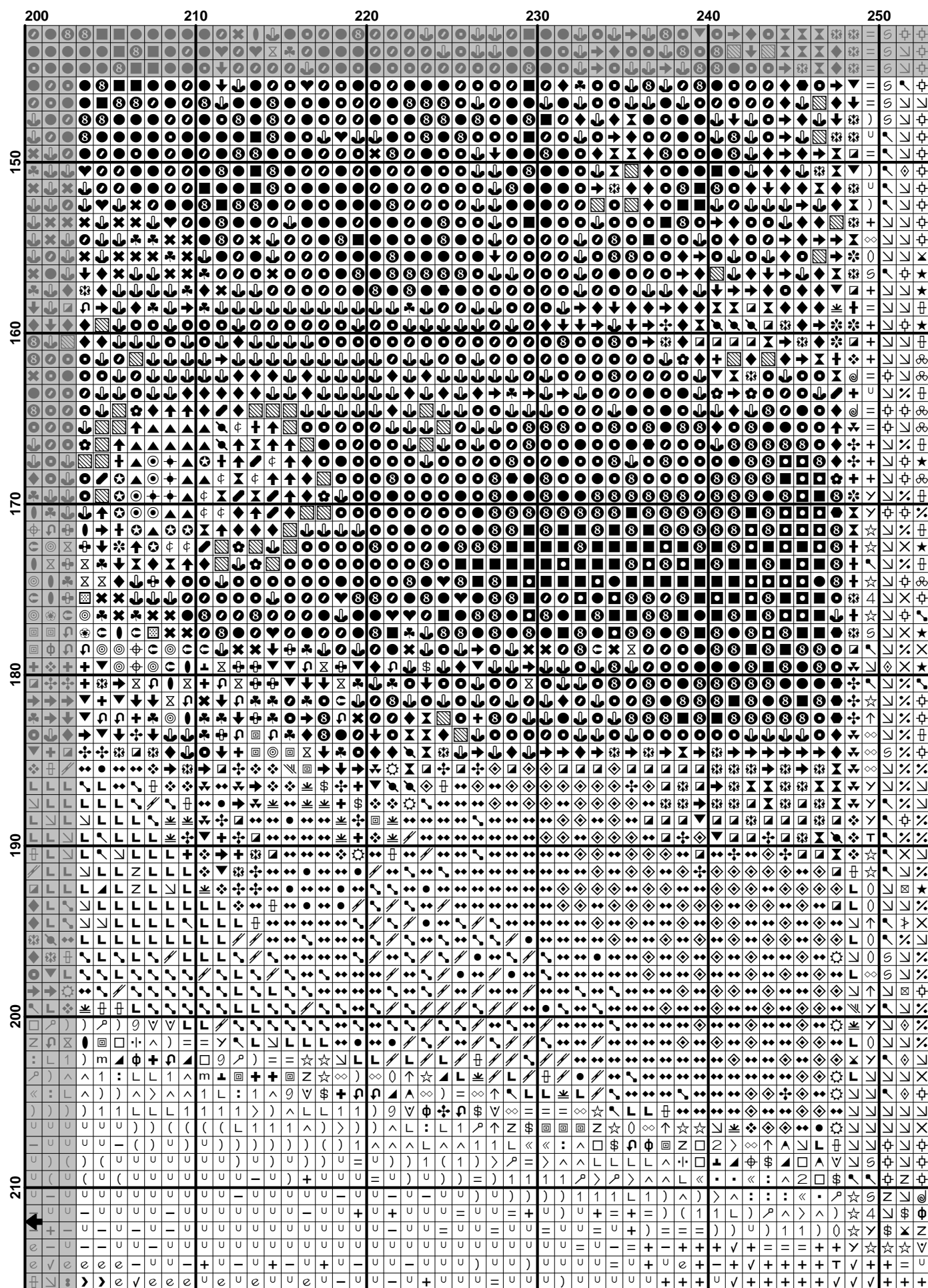


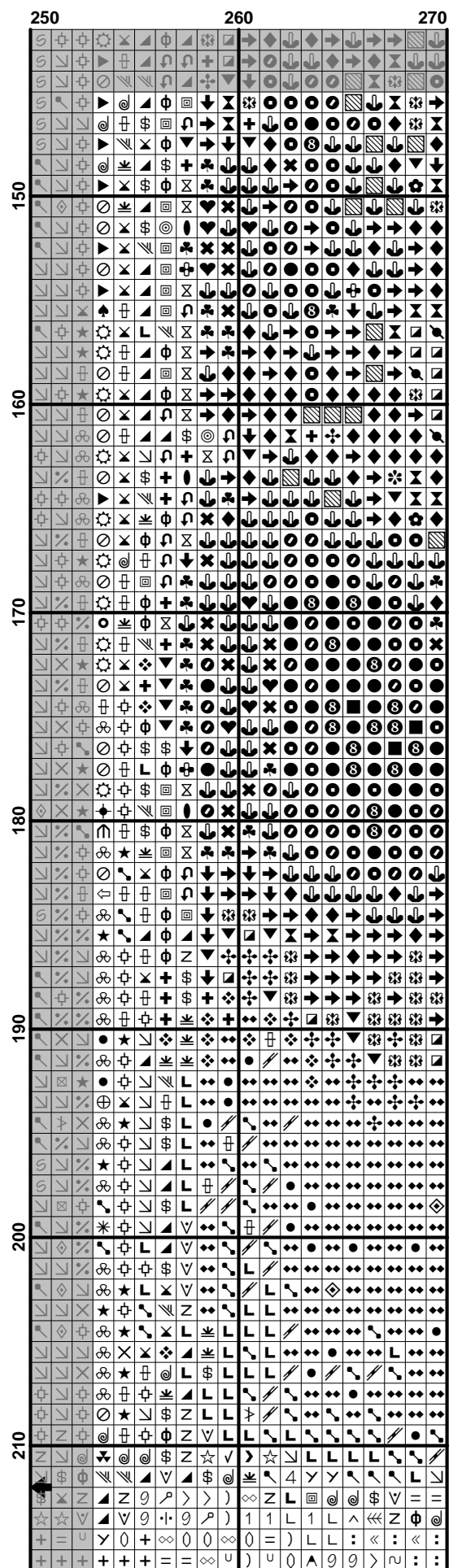
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170	...	...	...	...	...	...
180	...	...	...	...	...	...
190	...	...	...	...	...	...
200	...	...	...	...	...	...
210	...	...	...	...	...	...



	100	110	120	130	140	150
150	...	...	...	...	...	...
160	...	...	...	...	...	...
170	...	...	...	...	...	...
180	...	...	...	...	...	...
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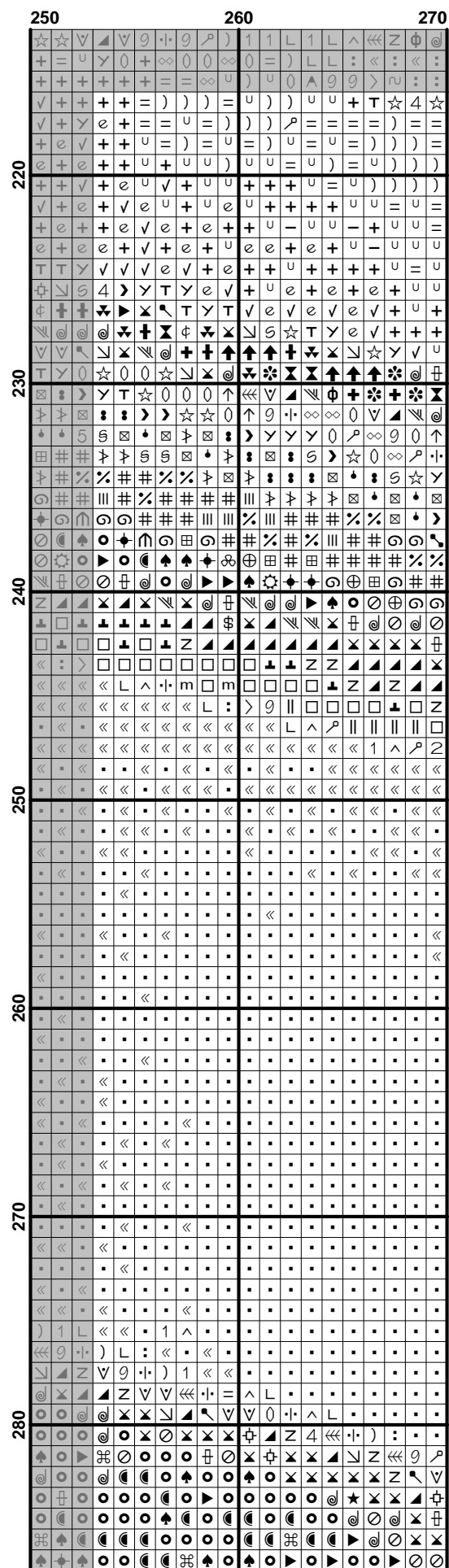
$$(26) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (27)$$

$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$



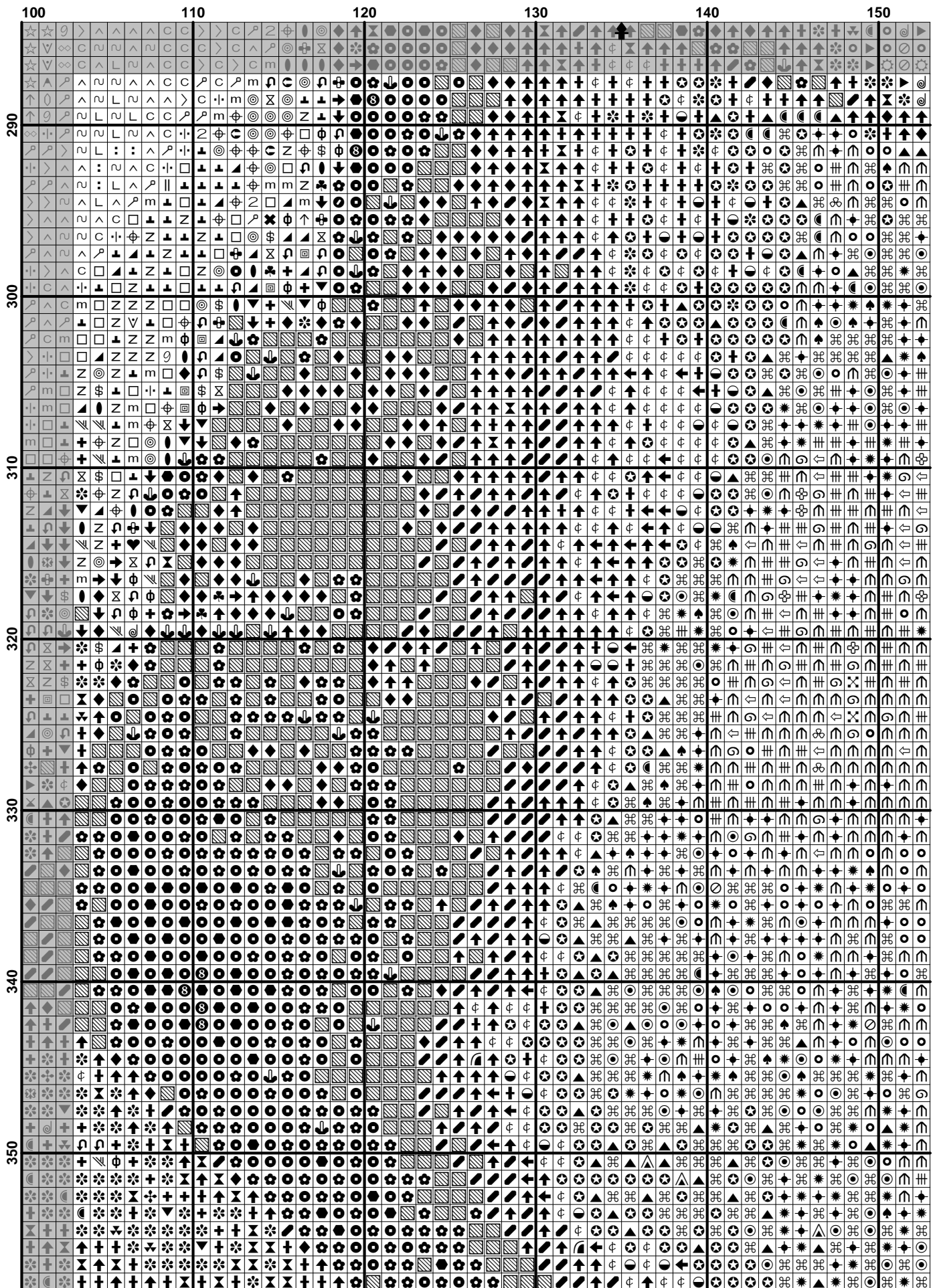
$$(28) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

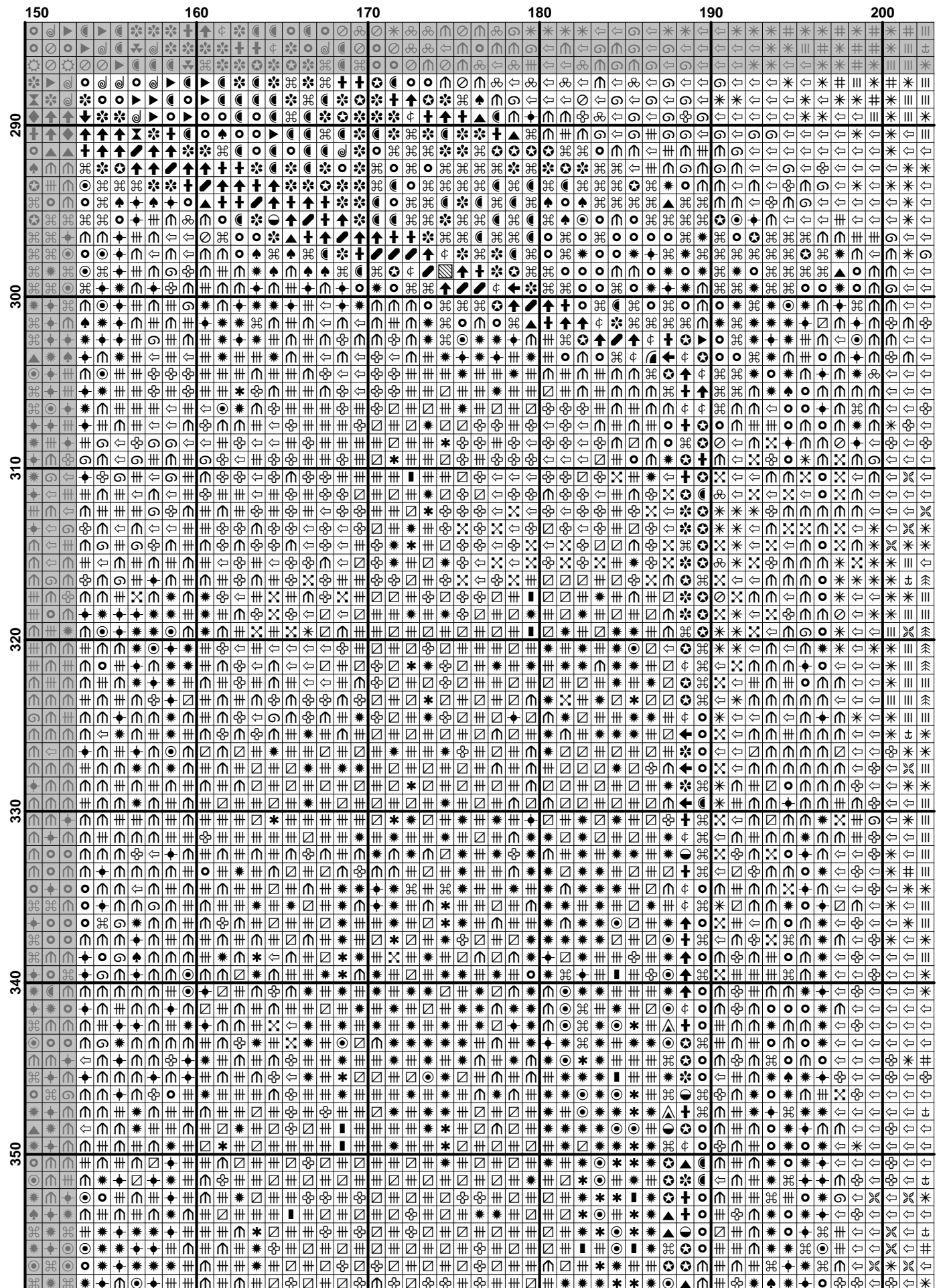
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230						
240						
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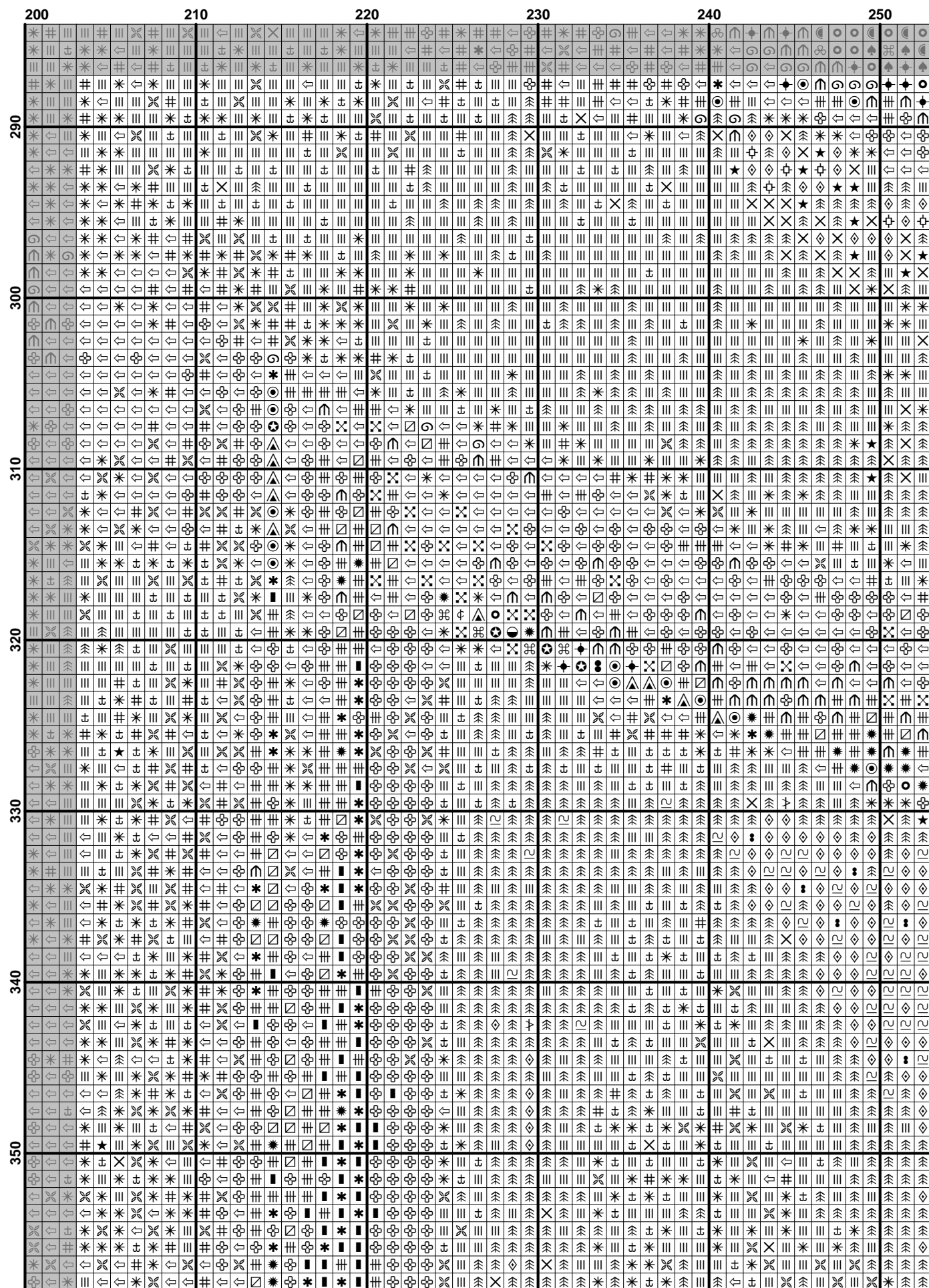
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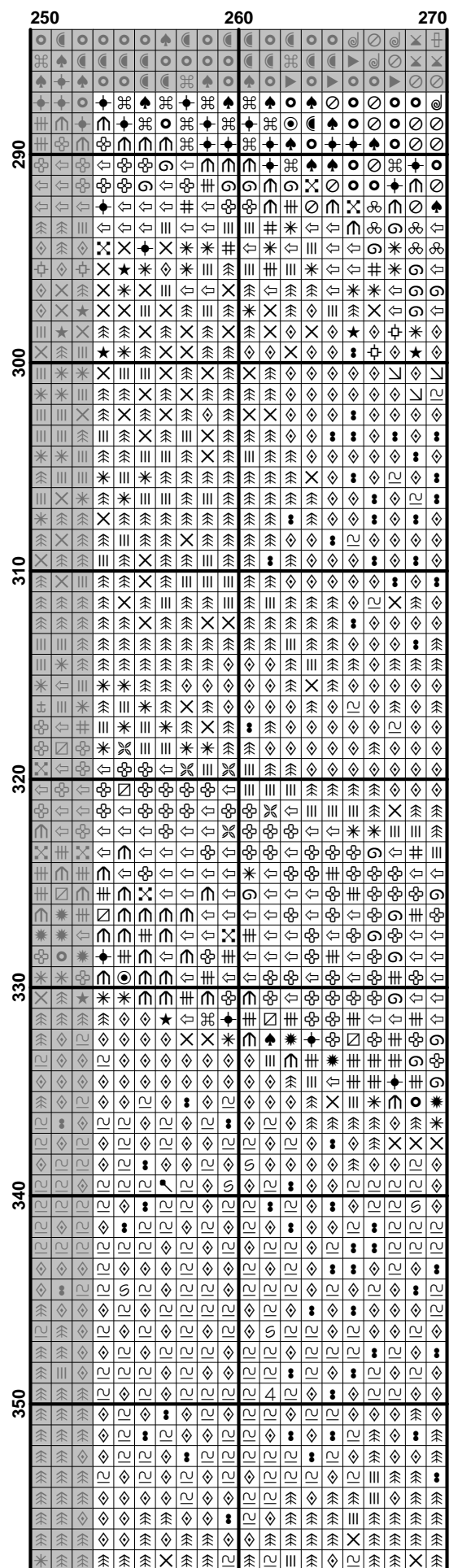
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