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## 884 Virgin Folklore



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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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## Virgin Folklore

Stitch Count		Recommended Fabric Color	
Horizontal:	340	Antique White	
Vertical:	226		

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:	62	24.26	41	16.07	54	21.23	36	14.06	48	18.875	32	12.5
Including Margins:	78	31	57	23	70	28	52	21	64	25	48	19
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	86	33.96	57	22.49	72	28.3	47	18.74	36	14.15	23	9.37
Including Margins:	102	40	73	29	88	35	63	25	52	21	39	16
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	34	13.58	22	8.99	33	13.06	22	8.65	32	12.57	21	8.33
Including Margins:	50	20	38	15	49	20	38	15	48	19	37	15
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	31	12.13	20	8.03	28	11.32	19	7.49	27	10.61	17	7.03
Including Margins:	47	19	36	15	44	18	35	14	43	17	33	14

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

Symbol	DMC	Name
	211	Lavender-LT
×	224	Shell Pink-VY LT
⊕	317	Pewter Gray
Ⓢ	336	Navy Blue
⇒	341	Blue Violet-LT
∞	353	Peach
♠	371	Mustard
☆	372	Mustard-LT
↑	413	Pewter Gray -DK
✕	436	Tan
⊕	437	Tan-LT
↓	452	Shell Gray-MD
⋈	453	Shell Gray-LT
■	500	Blue Green-VY DK
#	524	Fern Green-VY LT
♣	535	Ash Gray-VY LT
‡	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
⊗	645	Beaver Gray-VY DK
⦶	647	Beaver Gray-MD
«	712	Cream
↘	738	Tan-VY LT
4	761	Salmon-LT
⟩	762	Pearl Gray-VY LT
⊗	791	Cornflower Blue-VY DK
←	792	Cornflower Blue-DK
•	819	Baby Pink-LT
■	823	Navy Blue-DK
☞	839	Beige Brown-DK

■	840	Beige Brown-MD
⊗	841	Beige Brown-LT
◆	844	Beaver Brown-UL DK
⊕	927	Gray Green-LT
⟩	945	Tawny
^	948	Peach-VY LT
m	950	Desert Sand-LT
⦶	3023	Brown Gray -LT
●	3031	Mocha Brown-VY DK
○	3032	Mocha Brown-MD
▲	3041	Antique Violet-MD
♦	3042	Antique Violet-LT
u	3047	Yellow Beige-LT
⊗	3053	Green Gray
ℳ	3072	Beaver Gray-VY LT
=	3713	Salmon-VY LT
∇	3716	Dusty Rose-VY LT
↑	3743	Antique Violet-VY LT
⋈	3747	Blue Violet-VY LT
∇	3753	Antique Blue-UL VY LT
⋈	3768	Gray Green-DK
⋈	3782	Mocha Brown-LT
⊗	3787	Brown Gray -DK
☞	3790	Beige Gray-UL DK
●	3799	Pewter Gray-VY DK
**	3807	Cornflower Blue
:	3823	Yellow -UL Pale
+	3824	Apricot-LT
✦	3828	Hazelnut Brown
√	3855	Autumn Gold-LT
†	3860	Cocoa
◇	3861	Cocoa-LT
✦	3862	Mocha Beige-DK
✦	3863	Mocha Beige-MD
—	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
☉	3860	Cocoa	3861	Cocoa-LT
☐	407	Desert Sand-DK	841	Beige Brown-LT
■	451	Shell Gray-DK	647	Beaver Gray-MD
▶	840	Beige Brown-MD	841	Beige Brown-LT
3	3855	Autumn Gold-LT	3856	Mahogany-UL VY LT
➡	3787	Brown Gray -DK	844	Beaver Brown-UL DK
⊙	452	Shell Gray-MD	648	Beaver Gray-LT
z	3856	Mahogany-UL VY LT	437	Tan-LT
●	407	Desert Sand-DK	372	Mustard-LT
▨	3799	Pewter Gray -VY DK	844	Beaver Brown-UL DK
⌘	415	Pearl Gray	318	Steel Gray-LT
✕	407	Desert Sand-DK	422	Hazelnut Brown-LT
⊗	927	Gray Green-LT	452	Shell Gray-MD
★	524	Fern Green-VY LT	3782	Mocha Brown-LT
✕	3787	Brown Gray -DK	3031	Mocha Brown-VY DK
∩	3756	Baby Blue-UL VY LT	762	Pearl Gray-VY LT
☉	407	Desert Sand-DK	3864	Mocha Beige-LT
)	353	Peach	3823	Yellow -UL Pale
2	353	Peach	3824	Apricot-LT
⌘	648	Beaver Gray-LT	3042	Antique Violet-LT
／	372	Mustard-LT	422	Hazelnut Brown-LT
=	612	Drab Brown-LT	437	Tan-LT
+	3041	Antique Violet-MD	3861	Cocoa-LT
↔	210	Lavender-MD	211	Lavender-LT
∩	210	Lavender-MD	3747	Blue Violet-VY LT
田	738	Tan-VY LT	407	Desert Sand-DK
5	762	Pearl Gray-VY LT	3747	Blue Violet-VY LT
⊙	224	Shell Pink-VY LT	3856	Mahogany-UL VY LT
9	353	Peach	453	Shell Gray-LT
▨	3021	Brown Gray -VY DK	610	Drab Brown-DK
⌘	3747	Blue Violet-VY LT	211	Lavender-LT
т	762	Pearl Gray-VY LT	211	Lavender-LT
◇	341	Blue Violet-LT	211	Lavender-LT
β	3689	Mauve-LT	762	Pearl Gray-VY LT
::	963	Dusty Rose-UL VY LT	762	Pearl Gray-VY LT
∩	211	Lavender-LT	963	Dusty Rose-UL VY LT
≡	210	Lavender-MD	963	Dusty Rose-UL VY LT
e	211	Lavender-LT	819	Baby Pink-LT
L	963	Dusty Rose-UL VY LT	819	Baby Pink-LT
／	3747	Blue Violet-VY LT	819	Baby Pink-LT
1	762	Pearl Gray-VY LT	819	Baby Pink-LT
*	341	Blue Violet-LT	554	Violet-LT
⊕	341	Blue Violet-LT	209	Lavender-DK
☪	209	Lavender-DK	3743	Antique Violet-VY LT
≡	210	Lavender-MD	3743	Antique Violet-VY LT
↑	3743	Antique Violet-VY LT	3689	Mauve-LT
⊙	209	Lavender-DK	414	Steel Gray-DK
⊕	210	Lavender-MD	414	Steel Gray-DK
//	210	Lavender-MD	3689	Mauve-LT
✕	3752	Antique Blue-VY LT	3753	Antique Blue-UL VY LT
0	3743	Antique Violet-VY LT	3072	Beaver Gray-VY LT
(	712	Cream	3866	Mocha Brown-UL VY LT
▲	554	Violet-LT	415	Pearl Gray

▲	341	Blue Violet-LT	415	Pearl Gray
◇	3743	Antique Violet-VY LT	453	Shell Gray-LT
¼	3743	Antique Violet-VY LT	3727	Antique Mauve-LT
L	3727	Antique Mauve-LT	648	Beaver Gray-LT
᠒	3727	Antique Mauve-LT	3042	Antique Violet-LT
◎	209	Lavender-DK	927	Gray Green-LT
∅	452	Shell Gray-MD	316	Antique Mauve-MD
⌘	209	Lavender-DK	3768	Gray Green-DK
♠	927	Gray Green-LT	553	Violet
♣	3768	Gray Green-DK	792	Cornflower Blue-DK
♣	791	Cornflower Blue-VY DK	792	Cornflower Blue-DK
▲	553	Violet	317	Pewter Gray
⌘	316	Antique Mauve-MD	317	Pewter Gray
⌘	930	Antique Blue-DK	3041	Antique Violet-MD
♥	413	Pewter Gray -DK	336	Navy Blue
○	341	Blue Violet-LT	794	Cornflower Blue-LT
*	927	Gray Green-LT	3041	Antique Violet-MD
+	3041	Antique Violet-MD	413	Pewter Gray -DK
↓	535	Ash Gray -VY LT	3860	Cocoa
⌘	3787	Brown Gray -DK	3021	Brown Gray -VY DK
⊕	452	Shell Gray-MD	3733	Dusty Rose
c	745	Yellow -LT Pale	353	Peach
H	738	Tan-VY LT	3782	Mocha Brown-LT
❖	612	Drab Brown-LT	372	Mustard-LT
○	353	Peach	761	Salmon-LT
+	745	Yellow -LT Pale	3824	Apricot-LT
❖	738	Tan-VY LT	422	Hazelnut Brown-LT
≡	3856	Mahogany-UL VY LT	3046	Yellow Beige-MD
III	648	Beaver Gray-LT	224	Shell Pink-VY LT
●	413	Pewter Gray -DK	823	Navy Blue-DK
III	3031	Mocha Brown-VY DK	3790	Beige Gray-UL DK
●	3031	Mocha Brown-VY DK	844	Beaver Brown-UL DK
▼	3787	Brown Gray -DK	3863	Mocha Beige-MD
*	612	Drab Brown-LT	3862	Mocha Beige-DK
●	3787	Brown Gray -DK	371	Mustard
≡	224	Shell Pink-VY LT	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	
209	Lavender-DK	517	203	492	193	443	174
210	Lavender-MD	798	314	760	299	684	269
211	Lavender-LT	3002	1181	2859	1125	2573	1012
224	Shell Pink-VY LT	326	128	310	122	279	109
316	Antique Mauve-MD	113	44	107	42	96	37
317	Pewter Gray	190	74	181	71	163	64
318	Steel Gray-LT	45	17	43	16	38	14
336	Navy Blue	114	44	109	42	98	38
341	Blue Violet-LT	392	154	373	146	336	132
353	Peach	321	126	306	120	275	108
371	Mustard	58	22	55	21	50	19
372	Mustard-LT	500	196	476	187	428	168
407	Desert Sand-DK	180	70	172	67	154	60
413	Pewter Gray -DK	443	174	422	166	379	149
414	Steel Gray -DK	51	20	49	19	44	17
415	Pearl Gray	182	71	173	68	156	61
422	Hazelnut Brown-LT	128	50	122	48	110	43
436	Tan	35	13	34	13	30	11
437	Tan-LT	232	91	221	87	198	77
451	Shell Gray-DK	32	12	31	12	28	11
452	Shell Gray-MD	471	185	449	176	404	159
453	Shell Gray-LT	167	65	159	62	143	56
500	Blue Green-VY DK	23	9	22	8	19	7
524	Fern Green-VY LT	158	62	151	59	136	53
535	Ash Gray -VY LT	183	72	174	68	156	61
543	Beige Brown-UL VY LT	53	20	51	20	46	18
553	Violet	137	53	130	51	117	46
554	Violet-LT	281	110	267	105	241	94
610	Drab Brown-DK	120	47	114	44	103	40
611	Drab Brown	26	10	24	9	22	8
612	Drab Brown-LT	185	72	176	69	159	62
640	Beige Gray-VY DK	129	50	123	48	110	43
642	Beige Gray-DK	17	6	16	6	15	5
645	Beaver Gray-VY DK	137	53	130	51	117	46
647	Beaver Gray-MD	130	51	124	48	111	43
648	Beaver Gray-LT	257	101	245	96	220	86
712	Cream	46	18	43	16	39	15
738	Tan-VY LT	313	123	298	117	268	105
745	Yellow-LT Pale	54	21	52	20	46	18
761	Salmon-LT	202	79	192	75	173	68
762	Pearl Gray-VY LT	707	278	673	264	606	238
791	Cornflower Blue-VY DK	23	9	22	8	19	7
792	Cornflower Blue-DK	43	16	41	16	37	14
794	Cornflower Blue-LT	19	7	18	7	16	6
819	Baby Pink-LT	1332	524	1268	499	1141	449
823	Navy Blue-DK	128	50	122	48	110	43
839	Beige Brown-DK	23	9	22	8	20	7
840	Beige Brown-MD	117	46	112	44	100	39
841	Beige Brown-LT	147	57	140	55	126	49
844	Beaver Brown-UL DK	304	119	289	113	260	102
927	Gray Green-LT	374	147	356	140	320	125
930	Antique Blue-DK	81	31	78	30	70	27
945	Tawny	97	38	92	36	83	32
948	Peach-VY LT	33	12	31	12	28	11

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950	Desert Sand-LT	77	30	74	29	66	25
963	Dusty Rose-UL VY LT	1296	510	1234	485	1111	437
3021	Brown Gray -VY DK	45	17	42	16	38	14
3023	Brown Gray -LT	150	59	143	56	129	50
3031	Mocha Brown-VY DK	171	67	163	64	147	57
3032	Mocha Brown-MD	47	18	45	17	40	15
3041	Antique Violet-MD	654	257	623	245	560	220
3042	Antique Violet-LT	357	140	340	133	306	120
3046	Yellow Beige-MD	64	25	61	24	55	21
3047	Yellow Beige-LT	30	11	29	11	26	10
3053	Green Gray	60	23	57	22	51	20
3072	Beaver Gray-VY LT	94	37	90	35	81	31
3689	Mauve-LT	165	64	157	61	141	55
3713	Salmon-VY LT	117	46	112	44	101	39
3716	Dusty Rose-VY LT	14	5	14	5	12	4
3727	Antique Mauve-LT	132	51	126	49	113	44
3733	Dusty Rose	34	13	33	12	29	11
3743	Antique Violet-VY LT	652	256	621	244	559	220
3747	Blue Violet-VY LT	632	248	602	237	542	213
3752	Antique Blue-VY LT	14	5	13	5	12	4
3753	Antique Blue-UL VY LT	103	40	98	38	88	34
3756	Baby Blue-UL VY LT	12	4	12	4	11	4
3768	Gray Green-DK	119	46	113	44	102	40
3782	Mocha Brown-LT	385	151	366	144	330	129
3787	Brown Gray -DK	313	123	298	117	268	105
3790	Beige Gray-UL DK	117	46	111	43	100	39
3799	Pewter Gray -VY DK	163	64	155	61	139	54
3807	Cornflower Blue	15	5	14	5	13	5
3823	Yellow -UL Pale	42	16	40	15	36	14
3824	Apricot-LT	107	42	102	40	92	36
3828	Hazelnut Brown	20	7	19	7	17	6
3855	Autumn Gold-LT	132	51	126	49	113	44
3856	Mahogany-UL VY LT	235	92	224	88	201	79
3860	Cocoa	240	94	228	89	205	80
3861	Cocoa-LT	366	144	349	137	314	123
3862	Mocha Beige-DK	62	24	59	23	53	20
3863	Mocha Beige-MD	77	30	73	28	66	25
3864	Mocha Beige-LT	20	7	19	7	17	6
3866	Mocha Brown-UL VY LT	133	52	126	49	114	44

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
209	Lavender-DK	797	313	665	261	332	131
210	Lavender-MD	1231	484	1026	404	513	202
211	Lavender-LT	4631	1822	3860	1518	1930	759
224	Shell Pink-VY LT	502	196	419	164	209	82
316	Antique Mauve-MD	173	67	144	56	72	28
317	Pewter Gray	293	115	245	96	122	48
318	Steel Gray-LT	68	25	57	21	29	11
336	Navy Blue	176	68	147	57	74	29
341	Blue Violet-LT	605	238	504	198	252	99
353	Peach	495	194	413	162	206	81
371	Mustard	90	34	75	29	38	14
372	Mustard-LT	770	302	642	252	321	126
407	Desert Sand-DK	277	108	231	90	116	45



413	Pewter Gray -DK	682	268	569	224	284	112
414	Steel Gray -DK	79	31	66	26	33	13
415	Pearl Gray	281	110	234	92	117	46
422	Hazelnut Brown-LT	198	77	165	65	83	32
436	Tan	54	20	45	17	23	8
437	Tan-LT	356	139	297	116	149	58
451	Shell Gray-DK	50	20	42	17	21	8
452	Shell Gray-MD	727	286	606	239	303	119
453	Shell Gray-LT	257	101	215	84	107	42
500	Blue Green-VY DK	34	13	29	11	14	5
524	Fern Green-VY LT	245	95	204	80	102	40
535	Ash Gray -VY LT	281	110	234	92	117	46
543	Beige Brown-UL VY LT	83	32	69	27	35	14
553	Violet	211	83	176	69	88	35
554	Violet-LT	434	169	362	141	181	71
610	Drab Brown-DK	185	72	155	60	77	30
611	Drab Brown	40	14	33	12	17	6
612	Drab Brown-LT	286	112	239	93	119	47
640	Beige Gray-VY DK	198	77	165	65	83	32
642	Beige Gray-DK	27	9	23	8	11	4
645	Beaver Gray-VY DK	211	83	176	69	88	35
647	Beaver Gray-MD	200	77	167	65	83	32
648	Beaver Gray-LT	396	155	330	129	165	65
712	Cream	70	27	59	23	29	11
738	Tan-VY LT	482	189	402	158	201	79
745	Yellow-LT Pale	83	32	69	27	35	14
761	Salmon-LT	311	122	260	102	130	51
762	Pearl Gray-VY LT	1091	428	909	357	455	179
791	Cornflower Blue-VY DK	34	13	29	11	14	5
792	Cornflower Blue-DK	67	25	56	21	28	11
794	Cornflower Blue-LT	29	11	24	9	12	5
819	Baby Pink-LT	2054	808	1712	674	856	337
823	Navy Blue-DK	198	77	165	65	83	32
839	Beige Brown-DK	36	13	30	11	15	5
840	Beige Brown-MD	180	70	150	59	75	29
841	Beige Brown-LT	227	88	189	74	95	37
844	Beaver Brown-UL DK	468	184	390	153	195	77
927	Gray Green-LT	576	225	480	188	240	94
930	Antique Blue-DK	126	49	105	41	53	20
945	Tawny	149	58	125	48	62	24
948	Peach-VY LT	50	20	42	17	21	8
950	Desert Sand-LT	119	45	99	38	50	19
963	Dusty Rose-UL VY LT	2000	787	1667	656	833	328
3021	Brown Gray -VY DK	68	25	57	21	29	11
3023	Brown Gray -LT	232	90	194	75	97	38
3031	Mocha Brown-VY DK	265	103	221	86	110	43
3032	Mocha Brown-MD	72	27	60	23	30	11
3041	Antique Violet-MD	1008	396	840	330	420	165
3042	Antique Violet-LT	551	216	459	180	230	90
3046	Yellow Beige-MD	99	38	83	32	41	16
3047	Yellow Beige-LT	47	18	39	15	20	8
3053	Green Gray	92	36	77	30	38	15
3072	Beaver Gray-VY LT	146	56	122	47	61	23
3689	Mauve-LT	254	99	212	83	106	41
3713	Salmon-VY LT	182	70	152	59	76	29
3716	Dusty Rose-VY LT	22	7	18	6	9	3
3727	Antique Mauve-LT	203	79	170	66	85	33
3733	Dusty Rose	52	20	44	17	22	8
3743	Antique Violet-VY LT	1006	396	839	330	419	165

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3747	Blue Violet-VY LT	976	383	813	320	407	160
3752	Antique Blue-VY LT	22	7	18	6	9	3
3753	Antique Blue-UL VY LT	158	61	132	51	66	26
3756	Baby Blue-UL VY LT	20	7	17	6	8	3
3768	Gray Green-DK	184	72	153	60	77	30
3782	Mocha Brown-LT	594	232	495	194	248	97
3787	Brown Gray -DK	482	189	402	158	201	79
3790	Beige Gray-UL DK	180	70	150	59	75	29
3799	Pewter Gray -VY DK	250	97	209	81	104	41
3807	Cornflower Blue	23	9	20	8	10	4
3823	Yellow -UL Pale	65	25	54	21	27	11
3824	Apricot-LT	166	65	138	54	69	27
3828	Hazelnut Brown	31	11	26	9	13	5
3855	Autumn Gold-LT	203	79	170	66	85	33
3856	Mahogany-UL VY LT	362	142	302	119	151	59
3860	Cocoa	369	144	308	120	154	60
3861	Cocoa-LT	565	221	471	185	236	92
3862	Mocha Beige-DK	95	36	80	30	40	15
3863	Mocha Beige-MD	119	45	99	38	50	19
3864	Mocha Beige-LT	31	11	26	9	13	5
3866	Mocha Brown-UL VY LT	205	79	171	66	86	33

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
209	Lavender-DK	319	125	307	120	295	116
210	Lavender-MD	492	194	474	186	456	179
211	Lavender-LT	1853	729	1781	701	1715	675
224	Shell Pink-VY LT	201	78	193	75	186	73
316	Antique Mauve-MD	69	27	66	26	64	25
317	Pewter Gray	117	46	113	44	109	43
318	Steel Gray-LT	27	10	26	10	25	9
336	Navy Blue	71	27	68	26	65	25
341	Blue Violet-LT	242	95	233	91	224	88
353	Peach	198	78	190	75	183	72
371	Mustard	36	14	35	13	33	13
372	Mustard-LT	308	121	296	116	285	112
407	Desert Sand-DK	111	43	107	42	103	40
413	Pewter Gray -DK	273	107	262	103	253	99
414	Steel Gray-DK	32	12	30	12	29	11
415	Pearl Gray	112	44	108	42	104	41
422	Hazelnut Brown-LT	79	31	76	30	73	29
436	Tan	22	8	21	8	20	7
437	Tan-LT	143	55	137	53	132	51
451	Shell Gray-DK	20	8	19	8	19	7
452	Shell Gray-MD	291	114	280	110	269	106
453	Shell Gray-LT	103	40	99	39	95	37
500	Blue Green-VY DK	14	5	13	5	13	5
524	Fern Green-VY LT	98	38	94	37	91	35
535	Ash Gray -VY LT	112	44	108	42	104	41
543	Beige Brown-UL VY LT	33	13	32	12	31	12
553	Violet	84	33	81	32	78	31
554	Violet-LT	174	68	167	65	161	63
610	Drab Brown-DK	74	29	71	28	69	27
611	Drab Brown	16	6	15	6	15	5
612	Drab Brown-LT	114	45	110	43	106	41

640	Beige Gray-VY DK	79	31	76	30	73	29
642	Beige Gray-DK	11	4	10	3	10	3
645	Beaver Gray-VY DK	84	33	81	32	78	31
647	Beaver Gray-MD	80	31	77	30	74	29
648	Beaver Gray-LT	158	62	152	60	147	57
712	Cream	28	11	27	10	26	10
738	Tan-VY LT	193	76	186	73	179	70
745	Yellow-LT Pale	33	13	32	12	31	12
761	Salmon-LT	125	49	120	47	115	45
762	Pearl Gray-VY LT	436	171	420	165	404	159
791	Cornflower Blue-VY DK	14	5	13	5	13	5
792	Cornflower Blue-DK	27	10	26	10	25	9
794	Cornflower Blue-LT	12	4	11	4	11	4
819	Baby Pink-LT	822	323	790	311	761	299
823	Navy Blue-DK	79	31	76	30	73	29
839	Beige Brown-DK	14	5	14	5	13	5
840	Beige Brown-MD	72	28	69	27	67	26
841	Beige Brown-LT	91	35	87	34	84	33
844	Beaver Brown-UL DK	187	73	180	71	173	68
927	Gray Green-LT	230	90	222	87	213	83
930	Antique Blue-DK	50	19	48	19	47	18
945	Tawny	60	23	57	22	55	21
948	Peach-VY LT	20	8	19	8	19	7
950	Desert Sand-LT	48	18	46	17	44	17
963	Dusty Rose-UL VY LT	800	315	769	303	741	291
3021	Brown Gray-VY DK	27	10	26	10	25	9
3023	Brown Gray-LT	93	36	89	35	86	33
3031	Mocha Brown-VY DK	106	41	102	39	98	38
3032	Mocha Brown-MD	29	11	28	10	27	10
3041	Antique Violet-MD	403	158	388	152	373	147
3042	Antique Violet-LT	220	86	212	83	204	80
3046	Yellow Beige-MD	40	15	38	15	37	14
3047	Yellow Beige-LT	19	7	18	7	17	7
3053	Green Gray	37	14	35	14	34	13
3072	Beaver Gray-VY LT	58	22	56	21	54	21
3689	Mauve-LT	102	40	98	38	94	37
3713	Salmon-VY LT	73	28	70	27	67	26
3716	Dusty Rose-VY LT	9	3	8	3	8	3
3727	Antique Mauve-LT	81	32	78	30	75	29
3733	Dusty Rose	21	8	20	8	19	7
3743	Antique Violet-VY LT	402	158	387	152	373	147
3747	Blue Violet-VY LT	390	153	375	147	361	142
3752	Antique Blue-VY LT	9	3	8	3	8	3
3753	Antique Blue-UL VY LT	63	24	61	24	59	23
3756	Baby Blue-UL VY LT	8	3	8	3	7	3
3768	Gray Green-DK	73	29	71	28	68	27
3782	Mocha Brown-LT	238	93	228	89	220	86
3787	Brown Gray-DK	193	76	186	73	179	70
3790	Beige Gray-UL DK	72	28	69	27	67	26
3799	Pewter Gray-VY DK	100	39	96	37	93	36
3807	Cornflower Blue	9	4	9	3	9	3
3823	Yellow-UL Pale	26	10	25	10	24	9
3824	Apricot-LT	66	26	64	25	61	24
3828	Hazelnut Brown	12	4	12	4	11	4
3855	Autumn Gold-LT	81	32	78	30	75	29
3856	Mahogany-UL VY LT	145	57	139	55	134	53
3860	Cocoa	148	58	142	55	137	53
3861	Cocoa-LT	226	89	217	85	209	82
3862	Mocha Beige-DK	38	14	37	14	35	13

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3863	Mocha Beige-MD	48	18	46	17	44	17
3864	Mocha Beige-LT	12	4	12	4	11	4
3866	Mocha Brown-UL VY LT	82	32	79	30	76	29

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
209	Lavender-DK	285	112	266	104	249	98
210	Lavender-MD	440	173	410	161	385	151
211	Lavender-LT	1654	651	1544	607	1447	569
224	Shell Pink-VY LT	179	70	167	65	157	61
316	Antique Mauve-MD	62	24	58	22	54	21
317	Pewter Gray	105	41	98	38	92	36
318	Steel Gray-LT	24	9	23	8	21	8
336	Navy Blue	63	24	59	23	55	21
341	Blue Violet-LT	216	85	202	79	189	74
353	Peach	177	69	165	65	155	61
371	Mustard	32	12	30	11	28	11
372	Mustard-LT	275	108	257	101	241	95
407	Desert Sand-DK	99	39	92	36	87	34
413	Pewter Gray-DK	244	96	227	89	213	84
414	Steel Gray-DK	28	11	26	10	25	10
415	Pearl Gray	100	39	94	37	88	34
422	Hazelnut Brown-LT	71	28	66	26	62	24
436	Tan	19	7	18	7	17	6
437	Tan-LT	127	50	119	46	111	43
451	Shell Gray-DK	18	7	17	7	16	6
452	Shell Gray-MD	260	102	242	95	227	89
453	Shell Gray-LT	92	36	86	34	80	32
500	Blue Green-VY DK	12	5	11	4	11	4
524	Fern Green-VY LT	87	34	82	32	77	30
535	Ash Gray-VY LT	100	39	94	37	88	34
543	Beige Brown-UL VY LT	30	12	28	11	26	10
553	Violet	75	30	70	28	66	26
554	Violet-LT	155	60	145	56	136	53
610	Drab Brown-DK	66	26	62	24	58	23
611	Drab Brown	14	5	13	5	12	5
612	Drab Brown-LT	102	40	95	37	89	35
640	Beige Gray-VY DK	71	28	66	26	62	24
642	Beige Gray-DK	10	3	9	3	8	3
645	Beaver Gray-VY DK	75	30	70	28	66	26
647	Beaver Gray-MD	71	28	67	26	62	24
648	Beaver Gray-LT	141	55	132	52	124	48
712	Cream	25	10	23	9	22	8
738	Tan-VY LT	172	68	161	63	151	59
745	Yellow-LT Pale	30	12	28	11	26	10
761	Salmon-LT	111	44	104	41	97	38
762	Pearl Gray-VY LT	390	153	364	143	341	134
791	Cornflower Blue-VY DK	12	5	11	4	11	4
792	Cornflower Blue-DK	24	9	22	8	21	8
794	Cornflower Blue-LT	10	4	10	4	9	3
819	Baby Pink-LT	734	289	685	269	642	253
823	Navy Blue-DK	71	28	66	26	62	24
839	Beige Brown-DK	13	5	12	4	11	4
840	Beige Brown-MD	64	25	60	23	56	22
841	Beige Brown-LT	81	32	76	29	71	28
844	Beaver Brown-UL DK	167	66	156	61	146	57

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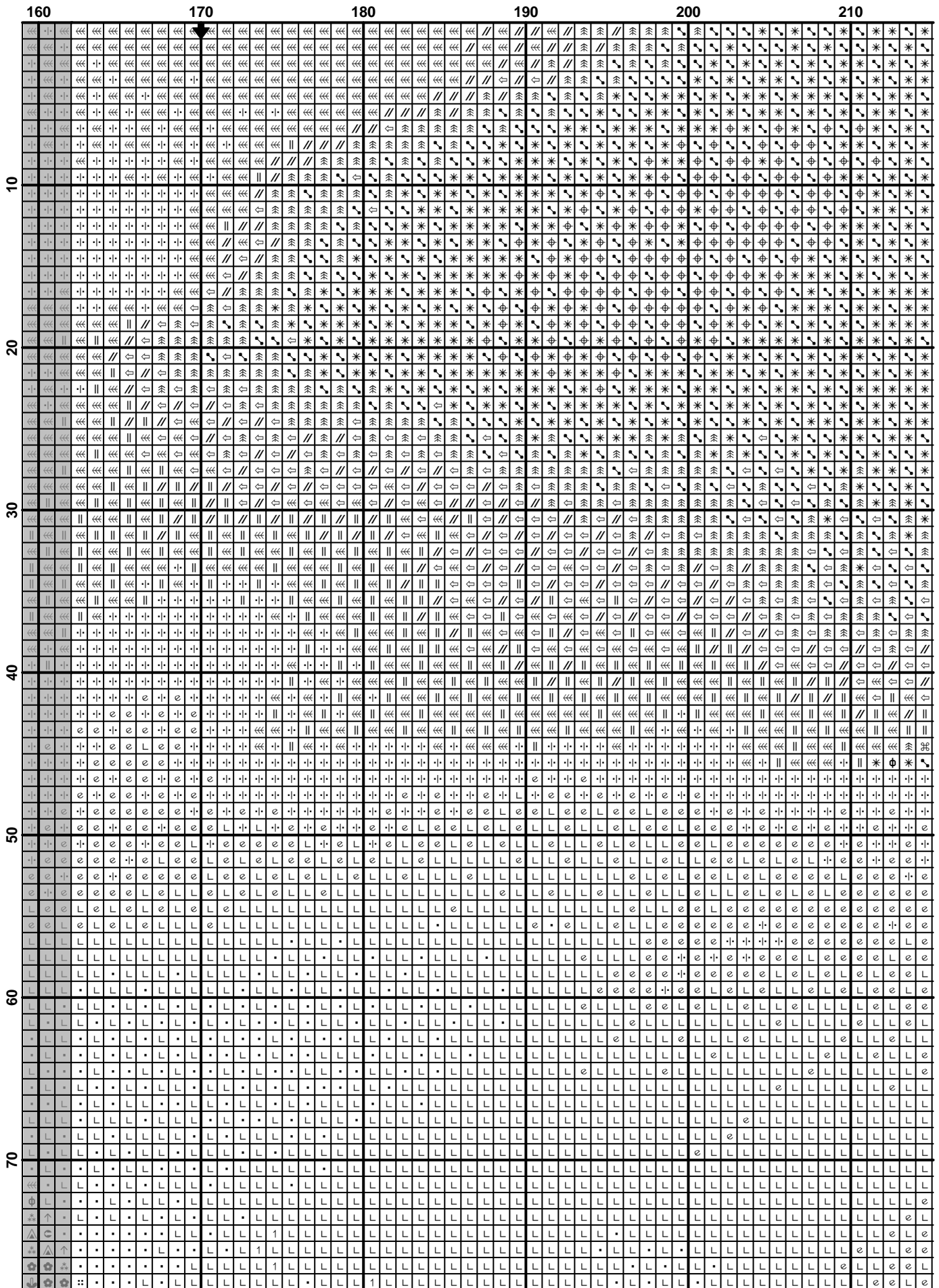
927	Gray Green-LT	206	80	192	75	180	70
930	Antique Blue-DK	45	17	42	16	39	15
945	Tawny	53	21	50	19	47	18
948	Peach-VY LT	18	7	17	7	16	6
950	Desert Sand-LT	42	16	40	15	37	14
963	Dusty Rose-UL VY LT	714	281	667	262	625	246
3021	Brown Gray -VY DK	24	9	23	8	21	8
3023	Brown Gray -LT	83	32	77	30	73	28
3031	Mocha Brown-VY DK	95	37	88	34	83	32
3032	Mocha Brown-MD	26	10	24	9	23	8
3041	Antique Violet-MD	360	141	336	132	315	124
3042	Antique Violet-LT	197	77	184	72	172	68
3046	Yellow Beige-MD	35	14	33	13	31	12
3047	Yellow Beige-LT	17	6	16	6	15	6
3053	Green Gray	33	13	31	12	29	11
3072	Beaver Gray-VY LT	52	20	49	19	46	17
3689	Mauve-LT	91	35	85	33	79	31
3713	Salmon-VY LT	65	25	61	23	57	22
3716	Dusty Rose-VY LT	8	3	7	2	7	2
3727	Antique Mauve-LT	73	28	68	26	64	25
3733	Dusty Rose	19	7	17	7	16	6
3743	Antique Violet-VY LT	359	141	335	132	314	124
3747	Blue Violet-VY LT	348	137	325	128	305	120
3752	Antique Blue-VY LT	8	3	7	2	7	2
3753	Antique Blue-UL VY LT	57	22	53	20	50	19
3756	Baby Blue-UL VY LT	7	3	7	2	6	2
3768	Gray Green-DK	66	26	61	24	57	23
3782	Mocha Brown-LT	212	83	198	77	186	73
3787	Brown Gray -DK	172	68	161	63	151	59
3790	Beige Gray-UL DK	64	25	60	23	56	22
3799	Pewter Gray -VY DK	89	35	83	32	78	30
3807	Cornflower Blue	8	3	8	3	7	3
3823	Yellow -UL Pale	23	9	22	8	20	8
3824	Apricot-LT	59	23	55	22	52	20
3828	Hazelnut Brown	11	4	10	4	10	3
3855	Autumn Gold-LT	73	28	68	26	64	25
3856	Mahogany-UL VY LT	129	51	121	47	113	44
3860	Cocoa	132	51	123	48	115	45
3861	Cocoa-LT	202	79	188	74	177	69
3862	Mocha Beige-DK	34	13	32	12	30	11
3863	Mocha Beige-MD	42	16	40	15	37	14
3864	Mocha Beige-LT	11	4	10	4	10	3
3866	Mocha Brown-UL VY LT	73	28	68	26	64	25

	10	20	30	40	50
10	...	...	...	...	...
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(10)



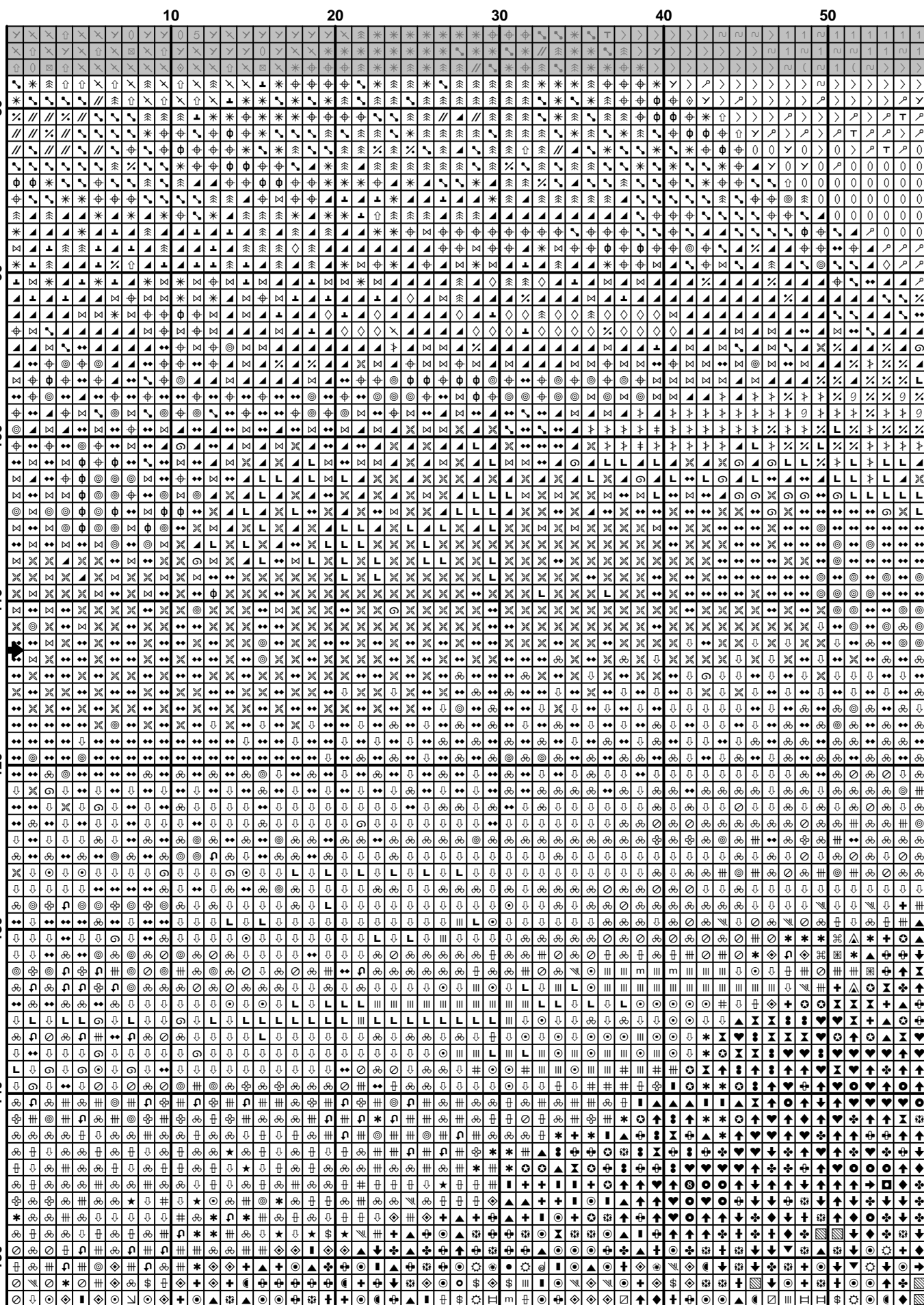
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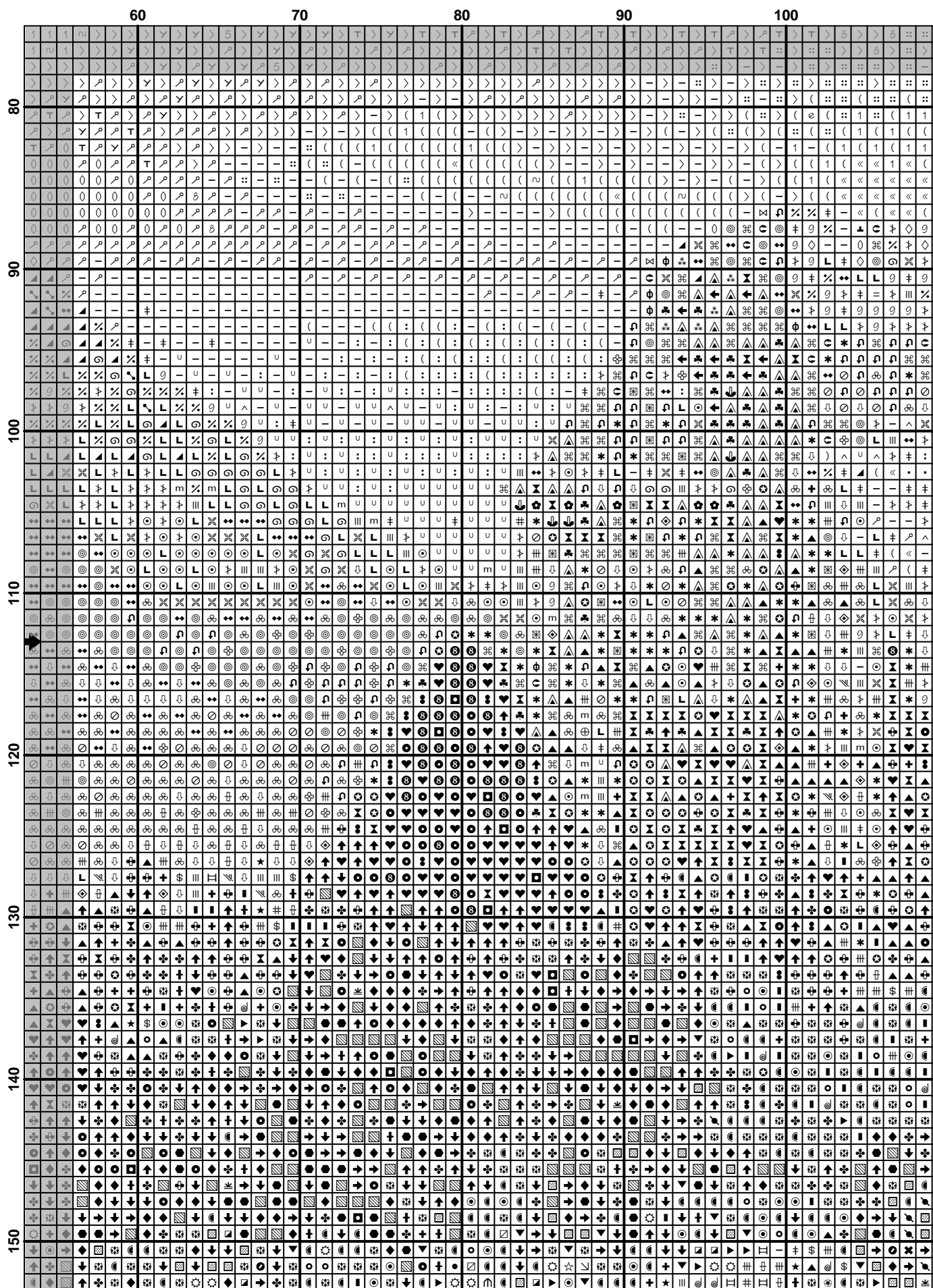


$$(12) \quad \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

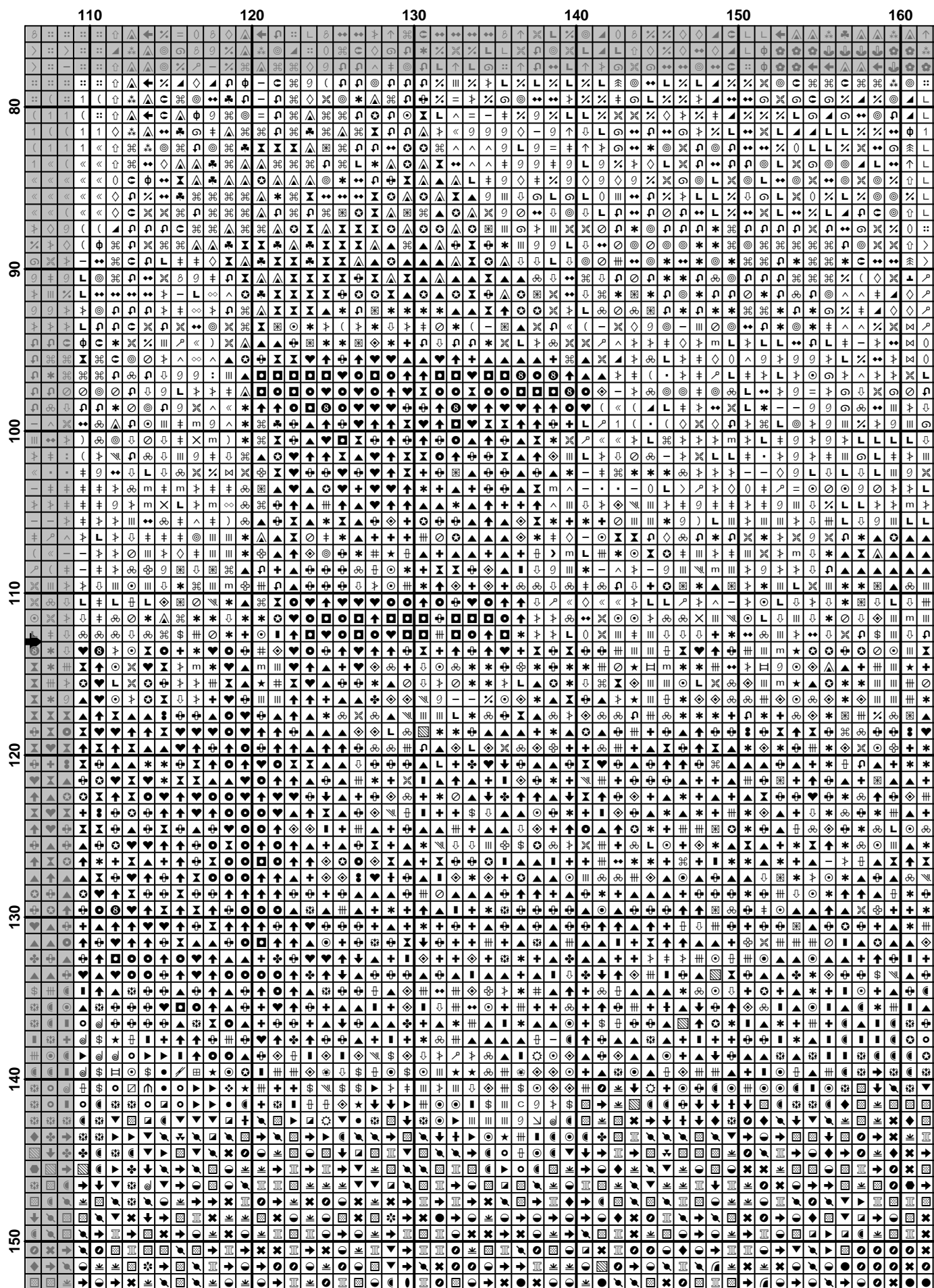
$$(13) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (14)$$

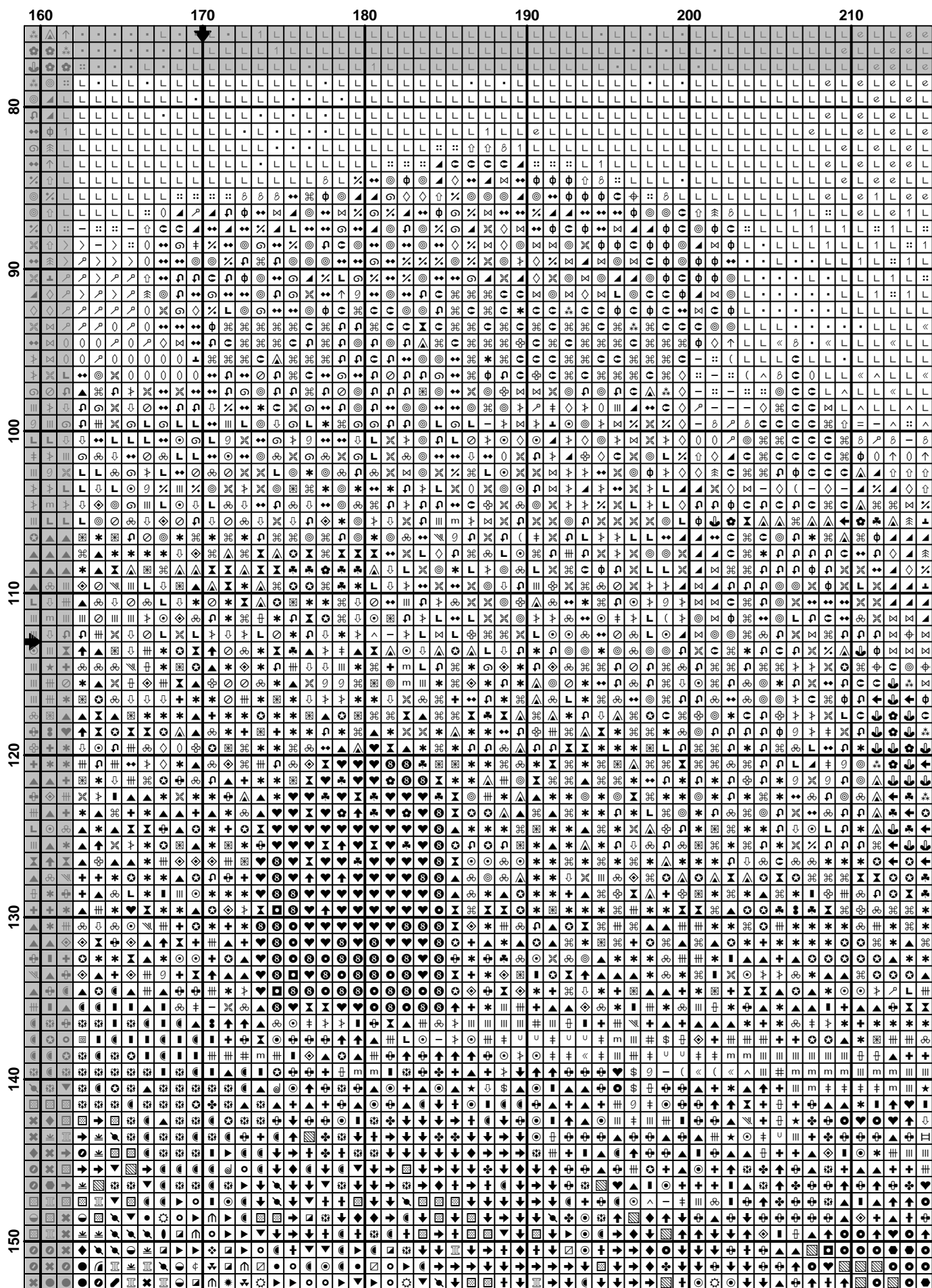
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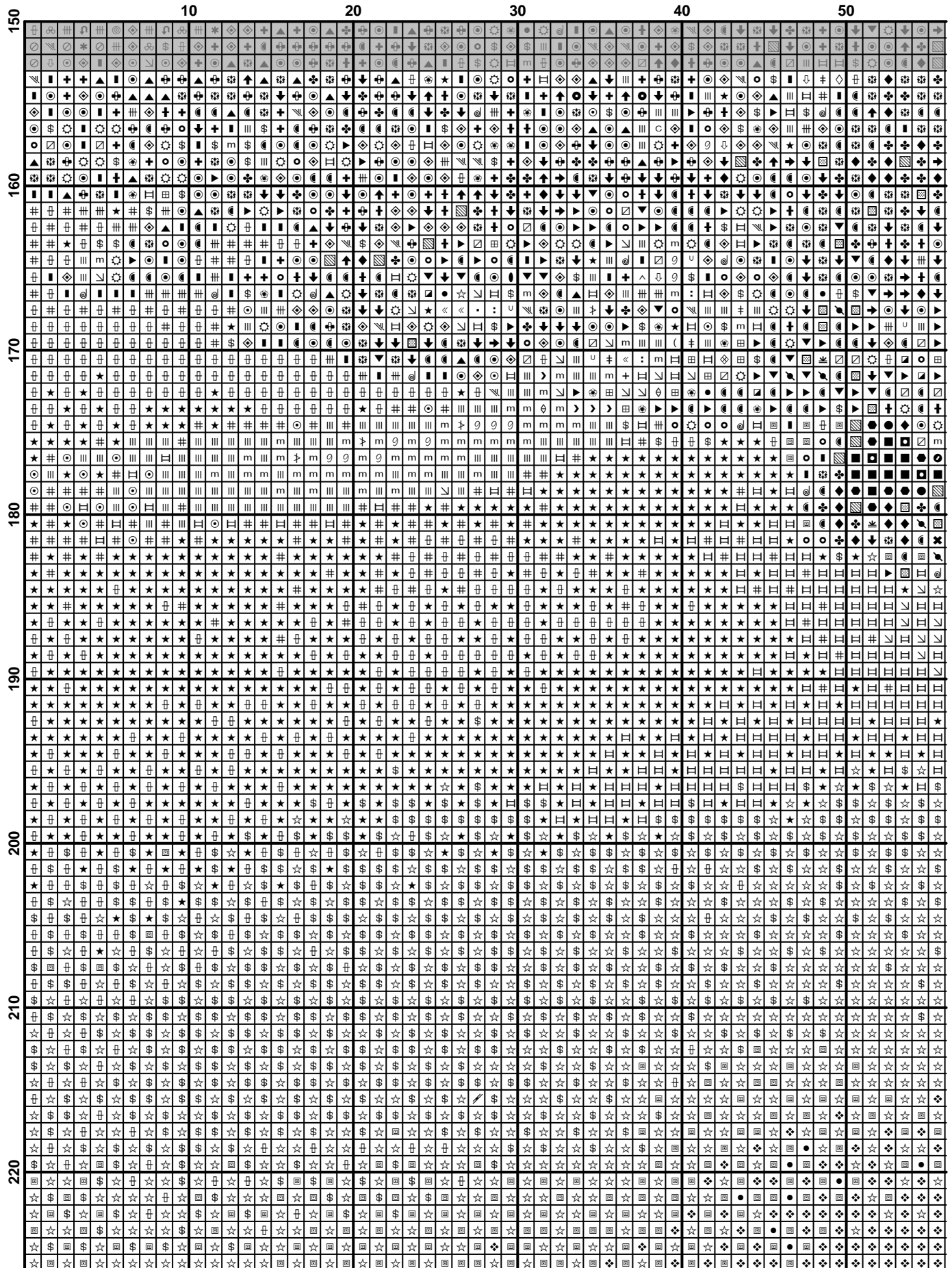


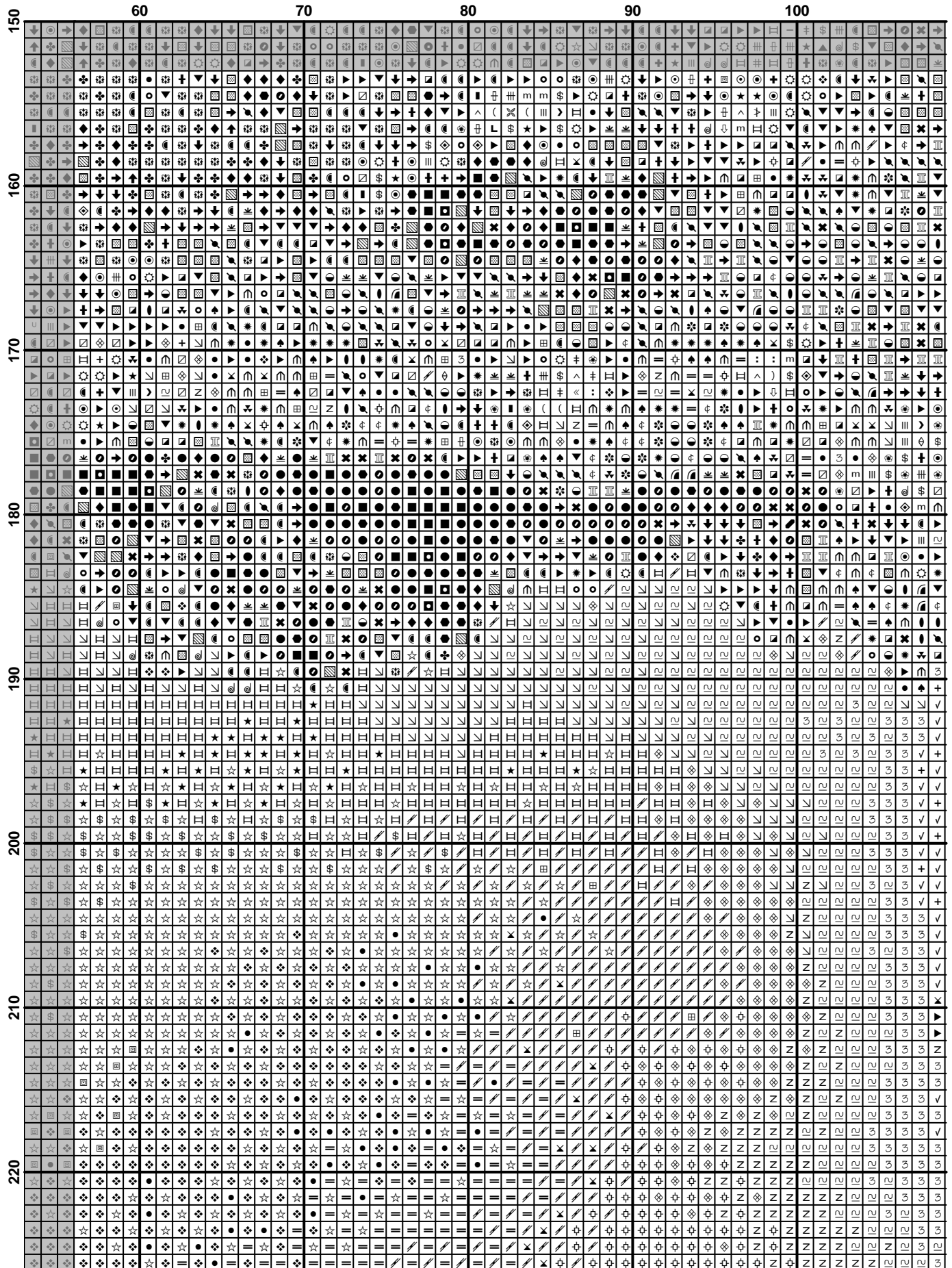


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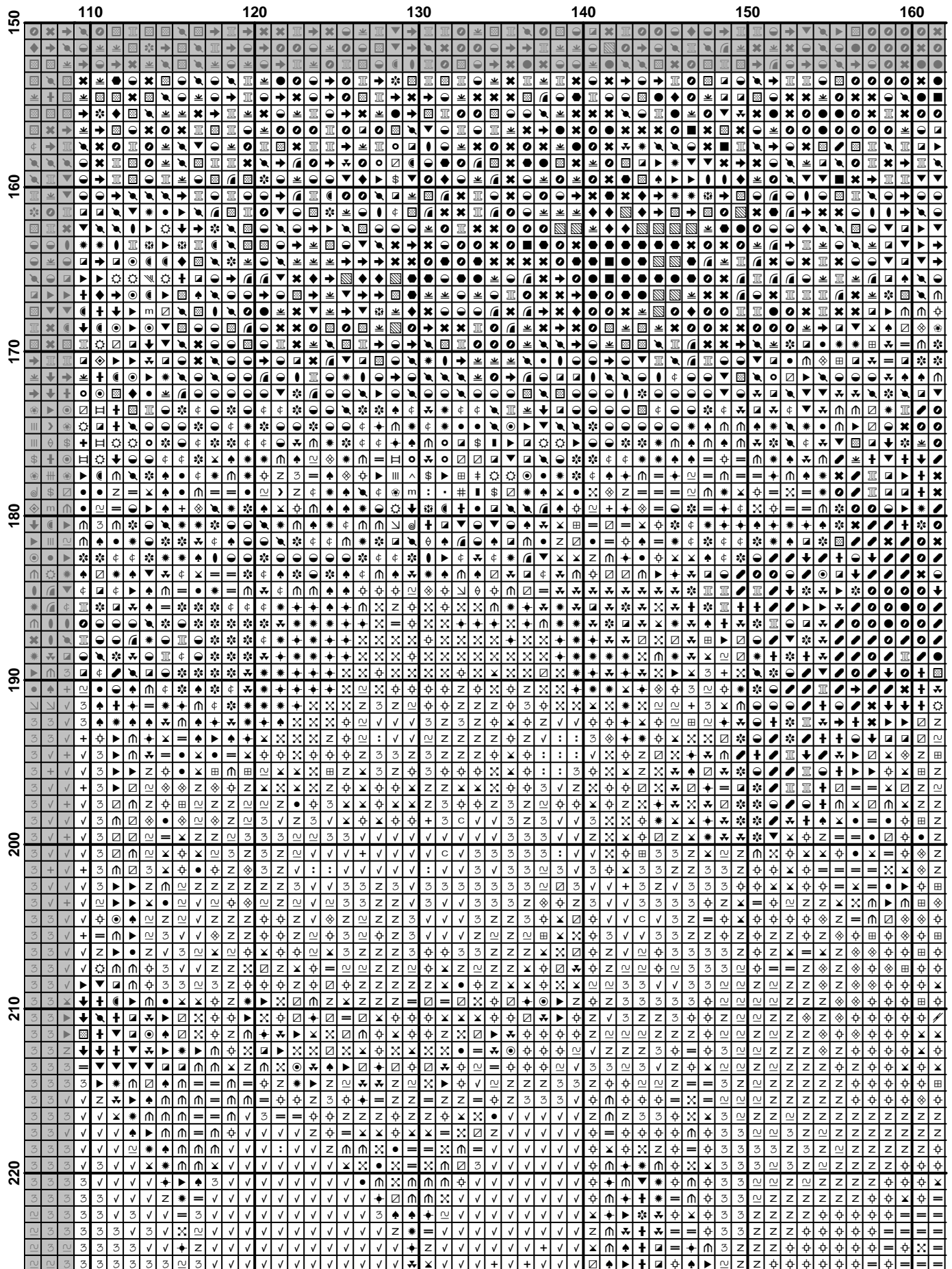
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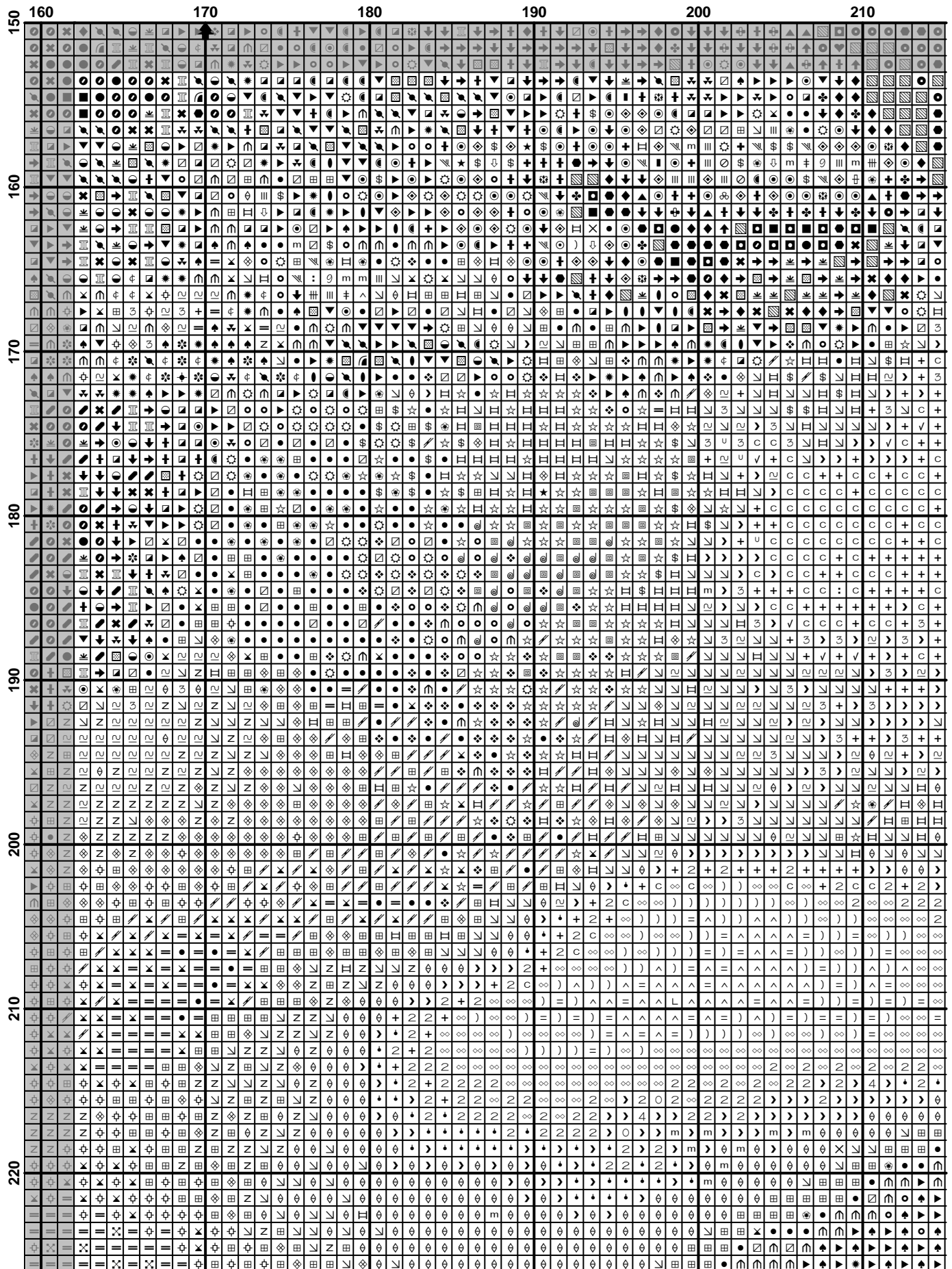
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180	♠	♠	♠	♠	♠	♠
190	♠	♠	♠	♠	♠	♠
200	♠	♠	♠	♠	♠	♠
210	♠	♠	♠	♠	♠	♠
220	♠	♠	♠	♠	♠	♠

