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1048 Sierra Nevada



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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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Sierra Nevada																										
<table><tr><td colspan="2">Stitch Count</td></tr><tr><td>Horizontal:</td><td>400</td></tr><tr><td>Vertical:</td><td>263</td></tr></table>					Stitch Count		Horizontal:	400	Vertical:	263	<table><tr><td colspan="4">Recommended Fabric Color</td></tr><tr><td colspan="4">Antique White</td></tr></table>								Recommended Fabric Color				Antique White			
Stitch Count																										
Horizontal:	400																									
Vertical:	263																									
Recommended Fabric Color																										
Antique White																										
<p>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.</p> <p>The sizes are given for 14, 16 and 18 stitches per inch fabrics.</p> <p>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.</p>																										
	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	48	18.64	64	24.89	42	16.31	57	22.125	37	14.5														
Including Margins:	89	35	64	25	80	31	58	23	73	29	53	21														
	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	67	26.09	85	33.18	56	21.74	42	16.59	28	10.87														
Including Margins:	118	46	83	33	101	40	72	28	58	23	44	17														
	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	26	10.43	39	15.31	25	10.03	37	14.74	24	9.66														
Including Margins:	56	22	42	17	55	22	41	17	53	21	40	16														
	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	24	9.32	34	13.27	22	8.69	31	12.44	21	8.15														
Including Margins:	52	21	40	16	50	20	38	15	47	19	37	15														

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

Symbol	DMC	Name
✕	367	Pistachio Green-DK
⌘	370	Mustard-MD
⌘	371	Mustard
○	372	Mustard-LT
⌘	420	Hazelnut Brown-DK
⌘	435	Brown-VY LT
)	445	Lemon-LT
↖	470	Avocado Green-LT
↘	471	Avocado Green-VY LT
⌘	472	Avocado Green-UL LT
+	501	Blue Green-DK
+	503	Blue Green-MD
⌘	522	Fern Green
..	523	Fern Green-LT
+	524	Fern Green-VY LT
⌘	564	Jade-VY LT
*	580	Moss Green-DK
=	610	Drab Brown-DK
◀	611	Drab Brown
⌘	612	Drab Brown-LT
5	613	Drab Brown-VY LT
⌘	646	Beaver Gray-DK
⌘	647	Beaver Gray-MD
4	676	Old Gold-LT
○	677	Old Gold-VY LT
n	712	Cream
+	729	Old Gold-MD
+	730	Olive Green-VY DK
⌘	732	Olive Green
⌘	733	Olive Green-MD
+	734	Olive Green-LT
✓	738	Tan-VY LT
=	739	Tan-UL VY LT
1	746	Off White
•	762	Pearl Gray-VY LT
<	772	Yellow Green-VY LT
▀	780	Topaz-UL VY DK
↪	783	Topaz-MD
L	822	Beige Gray-LT
↓	829	Golden Olive-VY DK
⌘	831	Golden Olive-MD
↑	832	Golden Olive
III	833	Golden Olive-LT
7	834	Golden Olive-VY LT

⌘	840	Beige Brown-MD
⌘	842	Beige Brown-VY LT
▶	869	Hazelnut Brown-VY DK
⌘	895	Hunter Green-VY DK
⌘	898	Coffee Brown-VY DK
⌘	904	Parrot Green-VY DK
⌘	909	Emerald Green-VY DK
⌘	926	Gray Green-MD
↘	927	Gray Green-LT
■	934	Black Avocado Green
➔	936	Avocado Green-VY DK
⌘	937	Avocado Green-MD
●	938	Coffee Brown-UL DK
⌘	966	Baby Green-MD
⌘	3012	Khaki Green-MD
⌘	3013	Khaki Green-LT
⌘	3024	Brown Gray-VY LT
⌘	3032	Mocha Brown-MD
:	3033	Mocha Brown-VY LT
⌘	3045	Yellow Beige-DK
⌘	3046	Yellow Beige-MD
⌘	3047	Yellow Beige-LT
♣	3051	Green Gray-DK
♣	3052	Green Gray-MD
○	3072	Beaver Gray-VY LT
?	3345	Hunter Green-DK
⌘	3346	Hunter Green
⌘	3347	Yellow Green-MD
m	3348	Yellow Green-LT
⌘	3362	Pine Green-DK
⌘	3364	Pine Green
⌘	3753	Antique Blue-UL VY LT
⌘	3768	Gray Green-DK
⌘	3770	Tawny-VY LT
⌘	3782	Mocha Brown-LT
⌘	3787	Brown Gray-DK
H	3813	Blue Green-LT
-	3820	Straw-DK
⌘	3823	Yellow-UL Pale
▲	3828	Hazelnut Brown
⊕	3829	Old Gold-VY DK
▷	3855	Autumn Gold-LT
+	3862	Mocha Beige-DK
u	3865	Winter White
(3866	Mocha Brown-UL VY LT
∞	Ecru	Ecru

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

Symbol	DMC1	Name1	DMC2	Name2
↔	3024	Brown Gray -VY LT	3072	Beaver Gray-VY LT
⋈	645	Beaver Gray-VY DK	646	Beaver Gray-DK
➤	926	Gray Green-MD	646	Beaver Gray-DK
⊙	503	Blue Green-MD	647	Beaver Gray-MD
⦿	645	Beaver Gray-VY DK	926	Gray Green-MD
⦿	501	Blue Green-DK	520	Fern Green-DK
⦿	646	Beaver Gray-DK	503	Blue Green-MD
⦿	646	Beaver Gray-DK	647	Beaver Gray-MD
⦿	801	Coffee Brown-DK	898	Coffee Brown-VY DK
⦿	611	Drab Brown	3011	Khaki Green-DK
⦿	371	Mustard	3052	Green Gray-MD
⦿	3011	Khaki Green-DK	3012	Khaki Green-MD
△	613	Drab Brown-VY LT	772	Yellow Green-VY LT
⦿	502	Blue Green	3052	Green Gray-MD
⦿	520	Fern Green-DK	3787	Brown Gray-DK
⦿	502	Blue Green	645	Beaver Gray-VY DK
×	503	Blue Green-MD	926	Gray Green-MD
«	746	Off White	3770	Tawny -VY LT
⦿	501	Blue Green-DK	935	Avocado Green-DK
+	3046	Yellow Beige-MD	445	Lemon-LT
▲	3346	Hunter Green	3362	Pine Green-DK
♣	3021	Brown Gray -VY DK	3362	Pine Green-DK
⦿	3768	Gray Green-DK	502	Blue Green
∇	734	Olive Green-LT	833	Golden Olive-LT
☆	472	Avocado Green-UL LT	734	Olive Green-LT
♠	367	Pistachio Green-DK	520	Fern Green-DK
6	369	Pistachio Green-VY LT	3024	Brown Gray -VY LT
◀	501	Blue Green-DK	3815	Celadon Green-DK
^	3823	Yellow -UL Pale	822	Beige Gray-LT
≡	371	Mustard	3364	Pine Green
✕	780	Topaz-UL VY DK	3829	Old Gold-VY DK
■	3781	Mocha Brown-DK	3862	Mocha Beige-DK
♣	3346	Hunter Green	3011	Khaki Green-DK
◇	611	Drab Brown	370	Mustard-MD
×	503	Blue Green-MD	3813	Blue Green-LT
	648	Beaver Gray-LT	524	Fern Green-VY LT
↑	927	Gray Green-LT	524	Fern Green-VY LT
↓	648	Beaver Gray-LT	966	Baby Green-MD
e	648	Beaver Gray-LT	369	Pistachio Green-VY LT
3	3024	Brown Gray -VY LT	648	Beaver Gray-LT
⋈	927	Gray Green-LT	966	Baby Green-MD
□	772	Yellow Green-VY LT	3047	Yellow Beige-LT
♡	772	Yellow Green-VY LT	822	Beige Gray-LT
β	3024	Brown Gray -VY LT	3033	Mocha Brown-VY LT
	ecru	Ecru	3072	Beaver Gray-VY LT
⦿	3768	Gray Green-DK	3815	Celadon Green-DK
*	926	Gray Green-MD	502	Blue Green
::	834	Golden Olive-VY LT	3813	Blue Green-LT
♦♦	3815	Celadon Green-DK	3787	Brown Gray -DK
⦿	3052	Green Gray-MD	645	Beaver Gray-VY DK
⦿	3815	Celadon Green-DK	646	Beaver Gray-DK
♠	502	Blue Green	367	Pistachio Green-DK
▲	3815	Celadon Green-DK	367	Pistachio Green-DK

⌘	3787	Brown Gray -DK	367	Pistachio Green-DK
⌘	3346	Hunter Green	3052	Green Gray-MD
⌘	3348	Yellow Green-LT	3364	Pine Green
⌘	3347	Yellow Green-MD	3011	Khaki Green-DK
⌘	3347	Yellow Green-MD	3012	Khaki Green-MD
■	730	Olive Green-VY DK	580	Moss Green-DK
●	936	Avocado Green-VY DK	611	Drab Brown
↑	829	Golden Olive-VY DK	898	Coffee Brown-VY DK
▼	730	Olive Green-VY DK	3781	Mocha Brown-DK
✕	936	Avocado Green-VY DK	898	Coffee Brown-VY DK
✕	936	Avocado Green-VY DK	869	Hazelnut Brown-VY DK
⋮	869	Hazelnut Brown-VY DK	898	Coffee Brown-VY DK
☉	936	Avocado Green-VY DK	3011	Khaki Green-DK
♥	934	Black Avocado Green	936	Avocado Green-VY DK
⇒	3866	Mocha Brown-UL VY LT	ecru	Ecru
α	739	Tan-UL VY LT	842	Beige Brown-VY LT
←	936	Avocado Green-VY DK	3051	Green Gray-DK
⌘	842	Beige Brown-VY LT	524	Fern Green-VY LT
⌘	646	Beaver Gray-DK	522	Fern Green
◇	772	Yellow Green-VY LT	524	Fern Green-VY LT
⌘	524	Fern Green-VY LT	369	Pistachio Green-VY LT
⌘	3346	Hunter Green	936	Avocado Green-VY DK
⌘	471	Avocado Green-VY LT	833	Golden Olive-LT
⌘	3046	Yellow Beige-MD	471	Avocado Green-VY LT
⌘	3348	Yellow Green-LT	3823	Yellow -UL Pale
⌘	3052	Green Gray-MD	3011	Khaki Green-DK
✓	472	Avocado Green-UL LT	370	Mustard-MD
/	445	Lemon-LT	3348	Yellow Green-LT
⌘	738	Tan-VY LT	3348	Yellow Green-LT
↓	935	Avocado Green-DK	3345	Hunter Green-DK
●	934	Black Avocado Green	895	Hunter Green-VY DK
■	938	Coffee Brown-UL DK	934	Black Avocado Green
◆	3051	Green Gray-DK	938	Coffee Brown-UL DK
★	3346	Hunter Green	645	Beaver Gray-VY DK
⌘	904	Parrot Green-VY DK	3345	Hunter Green-DK
●	936	Avocado Green-VY DK	730	Olive Green-VY DK
⌘	780	Topaz-UL VY DK	829	Golden Olive-VY DK
⌘	831	Golden Olive-MD	869	Hazelnut Brown-VY DK
⌘	730	Olive Green-VY DK	898	Coffee Brown-VY DK
⌘	829	Golden Olive-VY DK	732	Olive Green
⌘	831	Golden Olive-MD	780	Topaz-UL VY DK
⌘	783	Topaz-MD	831	Golden Olive-MD
⌘	420	Hazelnut Brown-DK	831	Golden Olive-MD
⌘	520	Fern Green-DK	904	Parrot Green-VY DK
⌘	904	Parrot Green-VY DK	936	Avocado Green-VY DK
⌘	3345	Hunter Green-DK	895	Hunter Green-VY DK
⌘	732	Olive Green	3011	Khaki Green-DK
⌘	898	Coffee Brown-VY DK	934	Black Avocado Green
⌘	3346	Hunter Green	937	Avocado Green-MD
⌘	501	Blue Green-DK	3847	Teal Green-DK
⌘	832	Golden Olive	783	Topaz-MD
⌘	829	Golden Olive-VY DK	3011	Khaki Green-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	
367	Pistachio Green-DK	184	72	175	68	158	62
369	Pistachio Green-VY LT	215	84	204	80	184	72
370	Mustard-MD	163	64	156	61	140	55
371	Mustard	314	123	299	117	269	105
372	Mustard-LT	90	35	86	33	77	30
420	Hazelnut Brown-DK	222	87	212	83	191	75
435	Brown-VY LT	31	12	29	11	26	10
445	Lemon-LT	45	17	43	16	39	15
470	Avocado Green-LT	18	7	17	6	15	5
471	Avocado Green-VY LT	66	25	63	24	56	22
472	Avocado Green-UL LT	66	25	63	24	57	22
501	Blue Green-DK	127	50	121	47	109	42
502	Blue Green	324	127	309	121	278	109
503	Blue Green-MD	691	272	658	259	592	233
520	Fern Green-DK	171	67	163	64	147	57
522	Fern Green	348	137	332	130	299	117
523	Fern Green-LT	280	110	266	104	240	94
524	Fern Green-VY LT	639	251	608	239	548	215
564	Jade-VY LT	21	8	20	7	18	7
580	Moss Green-DK	214	84	204	80	184	72
610	Drab Brown-DK	154	60	146	57	132	51
611	Drab Brown	452	177	430	169	387	152
612	Drab Brown-LT	53	20	51	20	46	18
613	Drab Brown-VY LT	115	45	109	42	98	38
645	Beaver Gray-VY DK	307	120	292	114	263	103
646	Beaver Gray-DK	352	138	335	131	302	118
647	Beaver Gray-MD	403	158	384	151	345	135
648	Beaver Gray-LT	686	270	653	257	588	231
676	Old Gold-LT	26	10	25	9	22	8
677	Old Gold-VY LT	27	10	26	10	23	9
712	Cream	398	156	379	149	341	134
729	Old Gold-MD	53	20	50	19	45	17
730	Olive Green-VY DK	964	379	918	361	827	325
732	Olive Green	267	105	254	100	229	90
733	Olive Green-MD	36	14	34	13	30	11
734	Olive Green-LT	85	33	81	31	72	28
738	Tan-VY LT	103	40	98	38	88	34
739	Tan-UL VY LT	112	44	107	42	96	37
746	Off White	314	123	299	117	269	105
762	Pearl Gray-VY LT	22	8	21	8	19	7
772	Yellow Green-VY LT	149	58	142	55	127	50
780	Topaz-UL VY DK	160	62	153	60	137	53
783	Topaz-MD	54	21	52	20	46	18
801	Coffee Brown-DK	18	7	17	6	15	5
822	Beige Gray-LT	667	262	635	250	572	225
829	Golden Olive-VY DK	721	283	687	270	618	243
831	Golden Olive-MD	359	141	342	134	308	121
832	Golden Olive	104	40	99	38	89	35
833	Golden Olive-LT	93	36	88	34	80	31
834	Golden Olive-VY LT	153	60	145	57	131	51
840	Beige BrownMD	35	13	33	12	30	11
842	Beige BrownVY LT	216	85	206	81	185	72
869	Hazelnut Brown-VY DK	369	145	352	138	317	124
895	Hunter Green-VY DK	413	162	394	155	354	139

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898	Coffee Brown-VY DK	1483	583	1412	555	1271	500
904	Parrot Green-VY DK	222	87	212	83	190	74
909	Emerald Green-VY DK	5	1	5	1	4	1
926	Gray Green-MD	165	64	157	61	141	55
927	Gray Green-LT	521	205	496	195	446	175
934	Black Avocado Green	1039	409	990	389	891	350
935	Avocado Green-DK	83	32	79	31	71	27
936	Avocado Green-VY DK	1899	747	1808	711	1627	640
937	Avocado Green-MD	210	82	200	78	180	70
938	Coffee Brown-UL DK	459	180	437	172	394	155
966	Baby Green-MD	467	183	445	175	400	157
3011	Khaki Green-DK	839	330	799	314	719	283
3012	Khaki Green-MD	284	111	271	106	243	95
3013	Khaki Green-LT	98	38	93	36	84	33
3021	Brown Gray -VY DK	41	16	39	15	35	13
3024	Brown Gray -VY LT	1066	419	1016	400	914	359
3032	Mocha Brown-MD	78	30	74	29	67	26
3033	Mocha Brown-VY LT	374	147	357	140	321	126
3045	Yellow Beige-DK	46	18	43	16	39	15
3046	Yellow Beige-MD	70	27	67	26	60	23
3047	Yellow Beige-LT	31	12	29	11	26	10
3051	Green Gray-DK	233	91	222	87	200	78
3052	Green Gray-MD	867	341	826	325	743	292
3072	Beaver Gray-VY LT	885	348	843	331	759	298
3345	Hunter Green-DK	390	153	371	146	334	131
3346	Hunter Green	726	285	692	272	622	244
3347	Yellow Green-MD	192	75	183	72	165	64
3348	Yellow Green-LT	248	97	236	92	213	83
3362	Pine Green-DK	222	87	211	83	190	74
3364	Pine Green	398	156	379	149	341	134
3753	Antique Blue-UL VY LT	11	4	11	4	10	3
3768	Gray Green-DK	62	24	59	23	53	20
3770	Tawny -VY LT	150	59	143	56	128	50
3781	Mocha Brown-DK	120	47	115	45	103	40
3782	Mocha Brown-LT	67	26	64	25	57	22
3787	Brown Gray -DK	268	105	255	100	230	90
3813	Blue Green-LT	515	202	490	192	441	173
3815	Celadon Green-DK	209	82	199	78	179	70
3820	Straw -DK	22	8	21	8	19	7
3823	Yellow -UL Pale	309	121	294	115	265	104
3828	Hazelnut Brown	55	21	52	20	47	18
3829	Old Gold-VY DK	103	40	98	38	88	34
3847	Teal Green-DK	7	2	7	2	6	2
3855	Autumn Gold-LT	16	6	15	5	14	5
3862	Mocha Beige-DK	130	51	124	48	111	43
3865	Winter White	139	54	133	52	119	46
3866	Mocha Brown-UL VY LT	454	178	432	170	389	153
ecru	Ecru	688	270	656	258	590	232

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
367	Pistachio Green-DK	284	112	237	93	119	47
369	Pistachio Green-VY LT	331	130	276	108	138	54
370	Mustard-MD	252	99	210	83	105	41
371	Mustard	484	189	404	158	202	79

372	Mustard-LT	139	54	116	45	58	23
420	Hazelnut Brown-DK	344	135	287	113	143	56
435	Brown-VY LT	47	18	39	15	20	8
445	Lemon-LT	70	27	59	23	29	11
470	Avocado Green-LT	27	9	23	8	11	4
471	Avocado Green-VY LT	101	40	84	33	42	17
472	Avocado Green-UL LT	103	40	86	33	43	17
501	Blue Green-DK	196	76	164	63	82	32
502	Blue Green	500	196	417	164	209	82
503	Blue Green-MD	1066	419	888	350	444	175
520	Fern Green-DK	265	103	221	86	110	43
522	Fern Green	538	211	449	176	224	88
523	Fern Green-LT	432	169	360	141	180	71
524	Fern Green-VY LT	986	387	822	323	411	161
564	Jade-VY LT	32	13	27	11	14	5
580	Moss Green-DK	331	130	276	108	138	54
610	Drab Brown-DK	238	92	198	77	99	38
611	Drab Brown	697	274	581	228	290	114
612	Drab Brown-LT	83	32	69	27	35	14
613	Drab Brown-VY LT	176	68	147	57	74	29
645	Beaver Gray-VY DK	473	185	395	155	197	77
646	Beaver Gray-DK	544	212	453	177	227	89
647	Beaver Gray-MD	621	243	518	203	259	101
648	Beaver Gray-LT	1058	416	882	347	441	173
676	Old Gold-LT	40	14	33	12	17	6
677	Old Gold-VY LT	41	16	35	14	17	7
712	Cream	614	241	512	201	256	101
729	Old Gold- MD	81	31	68	26	34	13
730	Olive Green-VY DK	1489	585	1241	488	620	244
732	Olive Green	412	162	344	135	172	68
733	Olive Green-MD	54	20	45	17	23	8
734	Olive Green-LT	130	50	108	42	54	21
738	Tan-VY LT	158	61	132	51	66	26
739	Tan-UL VY LT	173	67	144	56	72	28
746	Off White	484	189	404	158	202	79
762	Pearl Gray-VY LT	34	13	29	11	14	5
772	Yellow Green-VY LT	229	90	191	75	95	38
780	Topaz-UL VY DK	247	95	206	80	103	40
783	Topaz-MD	83	32	69	27	35	14
801	Coffee Brown-DK	27	9	23	8	11	4
822	Beige Gray-LT	1030	405	858	338	429	169
829	Golden Olive-VY DK	1112	437	927	365	464	182
831	Golden Olive-MD	554	218	462	182	231	91
832	Golden Olive	160	63	134	53	67	26
833	Golden Olive-LT	144	56	120	47	60	23
834	Golden Olive-VY LT	236	92	197	77	98	38
840	Beige Brown-MD	54	20	45	17	23	8
842	Beige Brown-VY LT	333	130	278	108	139	54
869	Hazelnut Brown-VY DK	571	223	476	186	238	93
895	Hunter Green-VY DK	637	250	531	209	266	104
898	Coffee Brown-VY DK	2288	900	1907	750	953	375
904	Parrot Green-VY DK	342	133	285	111	143	56
909	Emerald Green-VY DK	7	2	6	2	3	1
926	Gray Green-MD	254	99	212	83	106	41
927	Gray Green-LT	803	315	669	263	335	131
934	Black Avocado Green	1604	630	1337	525	668	263
935	Avocado Green-DK	128	49	107	41	53	20
936	Avocado Green-VY DK	2929	1152	2441	960	1220	480
937	Avocado Green-MD	324	126	270	105	135	53

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938	Coffee Brown-UL DK	709	279	591	233	296	116
966	Baby Green-MD	720	283	600	236	300	118
3011	Khaki Green-DK	1294	509	1079	425	539	212
3012	Khaki Green-MD	437	171	365	143	182	71
3013	Khaki Green-LT	151	59	126	50	63	25
3021	Brown Gray -VY DK	63	23	53	20	26	10
3024	Brown Gray -VY LT	1645	646	1371	539	686	269
3032	Mocha Brown-MD	121	47	101	39	50	20
3033	Mocha Brown-VY LT	578	227	482	189	241	95
3045	Yellow Beige-DK	70	27	59	23	29	11
3046	Yellow Beige-MD	108	41	90	35	45	17
3047	Yellow Beige-LT	47	18	39	15	20	8
3051	Green Gray-DK	360	140	300	117	150	59
3052	Green Gray-MD	1337	526	1115	438	557	219
3072	Beaver Gray-VY LT	1366	536	1139	447	569	224
3345	Hunter Green-DK	601	236	501	197	251	98
3346	Hunter Green	1120	439	933	366	467	183
3347	Yellow Green-MD	297	115	248	96	124	48
3348	Yellow Green-LT	383	149	320	125	160	62
3362	Pine Green-DK	342	133	285	111	143	56
3364	Pine Green	614	241	512	201	256	101
3753	Antique Blue-UL VY LT	18	5	15	5	8	2
3768	Gray Green-DK	95	36	80	30	40	15
3770	Tawny -VY LT	230	90	192	75	96	38
3781	Mocha Brown-DK	185	72	155	60	77	30
3782	Mocha Brown-LT	103	40	86	33	43	17
3787	Brown Gray -DK	414	162	345	135	173	68
3813	Blue Green-LT	794	311	662	260	331	130
3815	Celadon Green-DK	322	126	269	105	134	53
3820	Straw -DK	34	13	29	11	14	5
3823	Yellow -UL Pale	477	187	398	156	199	78
3828	Hazelnut Brown	85	32	71	27	35	14
3829	Old Gold-VY DK	158	61	132	51	66	26
3847	Teal Green-DK	11	4	9	3	5	2
3855	Autumn Gold-LT	25	9	21	8	11	4
3862	Mocha Beige-DK	200	77	167	65	83	32
3865	Winter White	214	83	179	69	89	35
3866	Mocha Brown-UL VY LT	700	275	584	230	292	115
ecru	Ecru	1062	418	885	348	443	174

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
367	Pistachio Green-DK	114	45	109	43	105	41
369	Pistachio Green-VY LT	132	52	127	50	123	48
370	Mustard-MD	101	40	97	38	93	37
371	Mustard	194	76	186	73	179	70
372	Mustard-LT	55	22	53	21	51	20
420	Hazelnut Brown-DK	138	54	132	52	127	50
435	Brown-VY LT	19	7	18	7	17	7
445	Lemon-LT	28	11	27	10	26	10
470	Avocado Green-LT	11	4	10	3	10	3
471	Avocado Green-VY LT	40	16	39	15	37	15
472	Avocado Green-UL LT	41	16	39	15	38	15
501	Blue Green-DK	78	30	75	29	73	28
502	Blue Green	200	78	192	75	185	73

503	Blue Green-MD	426	168	410	161	395	155
520	Fern Green-DK	106	41	102	39	98	38
522	Fern Green	215	84	207	81	199	78
523	Fern Green-LT	173	68	166	65	160	63
524	Fern Green-VY LT	395	155	379	149	365	143
564	Jade-VY LT	13	5	12	5	12	5
580	Moss Green-DK	132	52	127	50	123	48
610	Drab Brown-DK	95	37	91	35	88	34
611	Drab Brown	279	109	268	105	258	101
612	Drab Brown-LT	33	13	32	12	31	12
613	Drab Brown-VY LT	71	27	68	26	65	25
645	Beaver Gray-VY DK	189	74	182	71	175	69
646	Beaver Gray-DK	217	85	209	82	201	79
647	Beaver Gray-MD	248	97	239	93	230	90
648	Beaver Gray-LT	423	166	407	160	392	154
676	Old Gold-LT	16	6	15	6	15	5
677	Old Gold-VY LT	17	6	16	6	15	6
712	Cream	246	96	236	93	227	89
729	Old Gold-MD	32	12	31	12	30	11
730	Olive Green-VY DK	595	234	573	225	551	217
732	Olive Green	165	65	159	62	153	60
733	Olive Green-MD	22	8	21	8	20	7
734	Olive Green-LT	52	20	50	19	48	19
738	Tan-VY LT	63	24	61	24	59	23
739	Tan-UL VY LT	69	27	66	26	64	25
746	Off White	194	76	186	73	179	70
762	Pearl Gray-VY LT	14	5	13	5	13	5
772	Yellow Green-VY LT	91	36	88	35	85	33
780	Topaz-UL VY DK	99	38	95	37	91	35
783	Topaz-MD	33	13	32	12	31	12
801	Coffee Brown-DK	11	4	10	3	10	3
822	Beige Gray-LT	412	162	396	156	381	150
829	Golden Olive-VY DK	445	175	428	168	412	162
831	Golden Olive-MD	222	87	213	84	205	81
832	Golden Olive	64	25	62	24	59	23
833	Golden Olive-LT	58	22	55	21	53	21
834	Golden Olive-VY LT	94	37	91	35	87	34
840	Beige Brown-MD	22	8	21	8	20	7
842	Beige Brown-VY LT	133	52	128	50	123	48
869	Hazelnut Brown-VY DK	228	89	219	86	211	83
895	Hunter Green-VY DK	255	100	245	96	236	93
898	Coffee Brown-VY DK	915	360	880	346	847	333
904	Parrot Green-VY DK	137	53	132	51	127	49
909	Emerald Green-VY DK	3	1	3	1	3	1
926	Gray Green-MD	102	40	98	38	94	37
927	Gray Green-LT	321	126	309	121	297	117
934	Black Avocado Green	642	252	617	242	594	233
935	Avocado Green-DK	51	19	49	19	47	18
936	Avocado Green-VY DK	1171	461	1126	443	1085	427
937	Avocado Green-MD	130	50	125	48	120	47
938	Coffee Brown-UL DK	284	112	273	107	263	103
966	Baby Green-MD	288	113	277	109	267	105
3011	Khaki Green-DK	518	204	498	196	479	189
3012	Khaki Green-MD	175	68	168	66	162	63
3013	Khaki Green-LT	60	24	58	23	56	22
3021	Brown Gray -VY DK	25	9	24	9	23	9
3024	Brown Gray -VY LT	658	258	633	249	609	239
3032	Mocha Brown-MD	48	19	46	18	45	17
3033	Mocha Brown-VY LT	231	91	222	87	214	84

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3045	Yellow Beige-DK	28	11	27	10	26	10
3046	Yellow Beige-MD	43	17	42	16	40	15
3047	Yellow Beige-LT	19	7	18	7	17	7
3051	Green Gray-DK	144	56	138	54	133	52
3052	Green Gray-MD	535	210	514	202	495	195
3072	Beaver Gray-VY LT	546	215	525	206	506	199
3345	Hunter Green-DK	240	94	231	91	223	87
3346	Hunter Green	448	176	431	169	415	163
3347	Yellow Green-MD	119	46	114	44	110	43
3348	Yellow Green-LT	153	60	147	57	142	55
3362	Pine Green-DK	137	53	132	51	127	49
3364	Pine Green	246	96	236	93	227	89
3753	Antique Blue-UL VY LT	7	2	7	2	7	2
3768	Gray Green-DK	38	14	37	14	35	13
3770	Tawny-VY LT	92	36	89	35	85	33
3781	Mocha Brown-DK	74	29	71	28	69	27
3782	Mocha Brown-LT	41	16	39	15	38	15
3787	Brown Gray -DK	166	65	159	62	153	60
3813	Blue Green-LT	318	125	305	120	294	115
3815	Celadon Green-DK	129	50	124	48	119	47
3820	Straw-DK	14	5	13	5	13	5
3823	Yellow-UL Pale	191	75	183	72	177	69
3828	Hazelnut Brown	34	13	33	12	31	12
3829	Old Gold-VY DK	63	24	61	24	59	23
3847	Teal Green-DK	4	1	4	1	4	1
3855	Autumn Gold-LT	10	4	10	3	9	3
3862	Mocha Beige-DK	80	31	77	30	74	29
3865	Winter White	86	33	82	32	79	31
3866	Mocha Brown-UL VY LT	280	110	269	106	259	102
ecru	Ecru	425	167	408	161	393	155

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
367	Pistachio Green-DK	102	40	95	37	89	35
369	Pistachio Green-VY LT	118	46	110	43	104	41
370	Mustard-MD	90	35	84	33	79	31
371	Mustard	173	68	161	63	151	59
372	Mustard-LT	50	19	46	18	43	17
420	Hazelnut Brown-DK	123	48	115	45	107	42
435	Brown-VY LT	17	6	16	6	15	6
445	Lemon-LT	25	10	23	9	22	8
470	Avocado Green-LT	10	3	9	3	8	3
471	Avocado Green-VY LT	36	14	34	13	32	12
472	Avocado Green-UL LT	37	14	34	13	32	12
501	Blue Green-DK	70	27	65	25	61	24
502	Blue Green	179	70	167	65	156	61
503	Blue Green-MD	381	150	355	140	333	131
520	Fern Green-DK	95	37	88	34	83	32
522	Fern Green	192	75	179	70	168	66
523	Fern Green-LT	154	60	144	56	135	53
524	Fern Green-VY LT	352	138	329	129	308	121
564	Jade-VY LT	12	5	11	4	10	4
580	Moss Green-DK	118	46	110	43	104	41
610	Drab Brown-DK	85	33	79	31	74	29
611	Drab Brown	249	98	232	91	218	86
612	Drab Brown-LT	30	12	28	11	26	10

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613	Drab Brown-VY LT	63	24	59	23	55	21
645	Beaver Gray-VY DK	169	66	158	62	148	58
646	Beaver Gray-DK	194	76	181	71	170	66
647	Beaver Gray-MD	222	87	207	81	194	76
648	Beaver Gray-LT	378	149	353	139	331	130
676	Old Gold-LT	14	5	13	5	12	5
677	Old Gold-VY LT	15	6	14	5	13	5
712	Cream	219	86	205	80	192	75
729	Old Gold-MD	29	11	27	10	25	10
730	Olive Green-VY DK	532	209	496	195	465	183
732	Olive Green	147	58	137	54	129	51
733	Olive Green-MD	19	7	18	7	17	6
734	Olive Green-LT	46	18	43	17	41	16
738	Tan-VY LT	57	22	53	20	50	19
739	Tan-UL VY LT	62	24	58	22	54	21
746	Off White	173	68	161	63	151	59
762	Pearl Gray-VY LT	12	5	11	4	11	4
772	Yellow Green-VY LT	82	32	76	30	71	28
780	Topaz-UL VY DK	88	34	82	32	77	30
783	Topaz-MD	30	12	28	11	26	10
801	Coffee Brown-DK	10	3	9	3	8	3
822	Beige Gray-LT	368	145	343	135	322	127
829	Golden Olive-VY DK	397	156	371	146	348	137
831	Golden Olive-MD	198	78	185	73	173	68
832	Golden Olive	57	23	53	21	50	20
833	Golden Olive-LT	51	20	48	19	45	17
834	Golden Olive-VY LT	84	33	79	31	74	29
840	Beige Brown-MD	19	7	18	7	17	6
842	Beige Brown-VY LT	119	46	111	43	104	41
869	Hazelnut Brown-VY DK	204	80	190	74	178	70
895	Hunter Green-VY DK	228	89	212	83	199	78
898	Coffee Brown-VY DK	817	321	763	300	715	281
904	Parrot Green-VY DK	122	48	114	44	107	42
909	Emerald Green-VY DK	3	1	2	1	2	1
926	Gray Green-MD	91	35	85	33	79	31
927	Gray Green-LT	287	113	268	105	251	98
934	Black Avocado Green	573	225	535	210	501	197
935	Avocado Green-DK	46	17	43	16	40	15
936	Avocado Green-VY DK	1046	411	976	384	915	360
937	Avocado Green-MD	116	45	108	42	101	39
938	Coffee Brown-UL DK	253	100	236	93	222	87
966	Baby Green-MD	257	101	240	94	225	88
3011	Khaki Green-DK	462	182	431	170	404	159
3012	Khaki Green-MD	156	61	146	57	137	53
3013	Khaki Green-LT	54	21	50	20	47	19
3021	Brown Gray-VY DK	23	8	21	8	20	7
3024	Brown Gray-VY LT	588	231	548	215	514	202
3032	Mocha Brown-MD	43	17	40	16	38	15
3033	Mocha Brown-VY LT	206	81	193	76	181	71
3045	Yellow Beige-DK	25	10	23	9	22	8
3046	Yellow Beige-MD	39	15	36	14	34	13
3047	Yellow Beige-LT	17	6	16	6	15	6
3051	Green Gray-DK	129	50	120	47	113	44
3052	Green Gray-MD	478	188	446	175	418	164
3072	Beaver Gray-VY LT	488	192	455	179	427	168
3345	Hunter Green-DK	215	84	200	79	188	74
3346	Hunter Green	400	157	373	146	350	137
3347	Yellow Green-MD	106	41	99	38	93	36
3348	Yellow Green-LT	137	53	128	50	120	47

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3362	Pine Green-DK	122	48	114	44	107	42
3364	Pine Green	219	86	205	80	192	75
3753	Antique Blue-UL VY LT	6	2	6	2	6	2
3768	Gray Green-DK	34	13	32	12	30	11
3770	Tawny -VY LT	82	32	77	30	72	28
3781	Mocha Brown-DK	66	26	62	24	58	23
3782	Mocha Brown-LT	37	14	34	13	32	12
3787	Brown Gray -DK	148	58	138	54	129	51
3813	Blue Green-LT	284	111	265	104	248	97
3815	Celadon Green-DK	115	45	107	42	101	39
3820	Straw -DK	12	5	11	4	11	4
3823	Yellow -UL Pale	170	67	159	62	149	59
3828	Hazelnut Brown	30	12	28	11	26	10
3829	Old Gold-VY DK	57	22	53	20	50	19
3847	Teal Green-DK	4	1	4	1	3	1
3855	Autumn Gold-LT	9	3	8	3	8	3
3862	Mocha Beige-DK	71	28	67	26	62	24
3865	Winter White	77	30	71	28	67	26
3866	Mocha Brown-UL VY LT	250	98	233	92	219	86
ecru	Ecru	379	149	354	139	332	131

[illegible]

$$(11) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

(13)

	150	160	170	180	190
10	10	10	10	10	10
20	20	20	20	20	20
30	30	30	30	30	30
40	40	40	40	40	40
50	50	50	50	50	50
60	60	60	60	60	60
70	70	70	70	70	70

[illegible]

	250	260	270	280	290
10
20
30
40
50
60
70

[illegible]

(18)

(18)

	10	20	30	40	50
70					
80					
90					
100					
110					
120					
130					
140					

(21)

	100	110	120	130	140	150
70						
80						
90						
100						
110						
120						
130						
140						

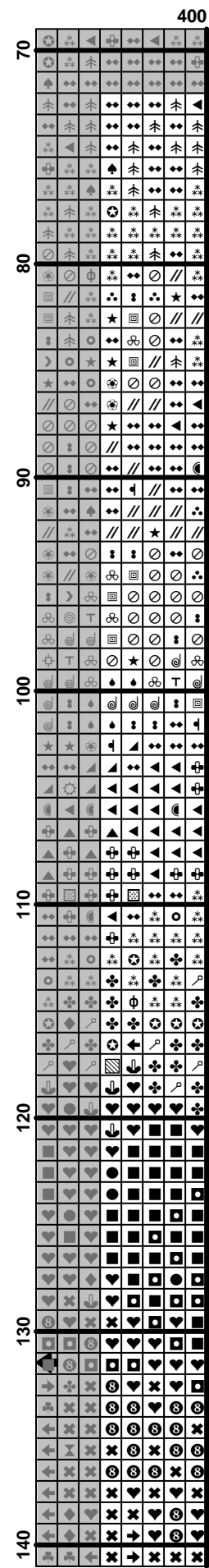
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70					
80					
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100					
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120					
130					
140					

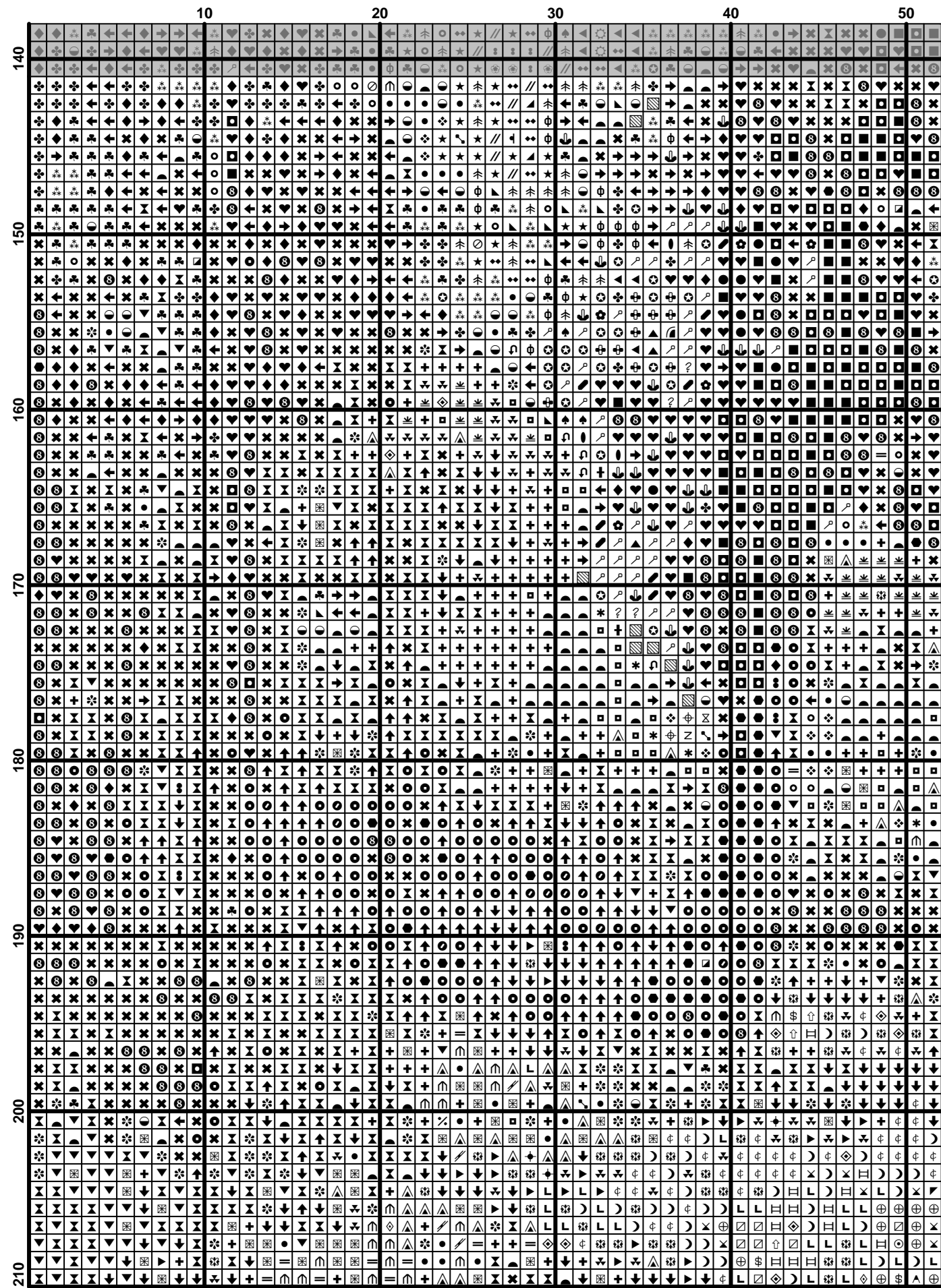
$$(23) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (24)$$

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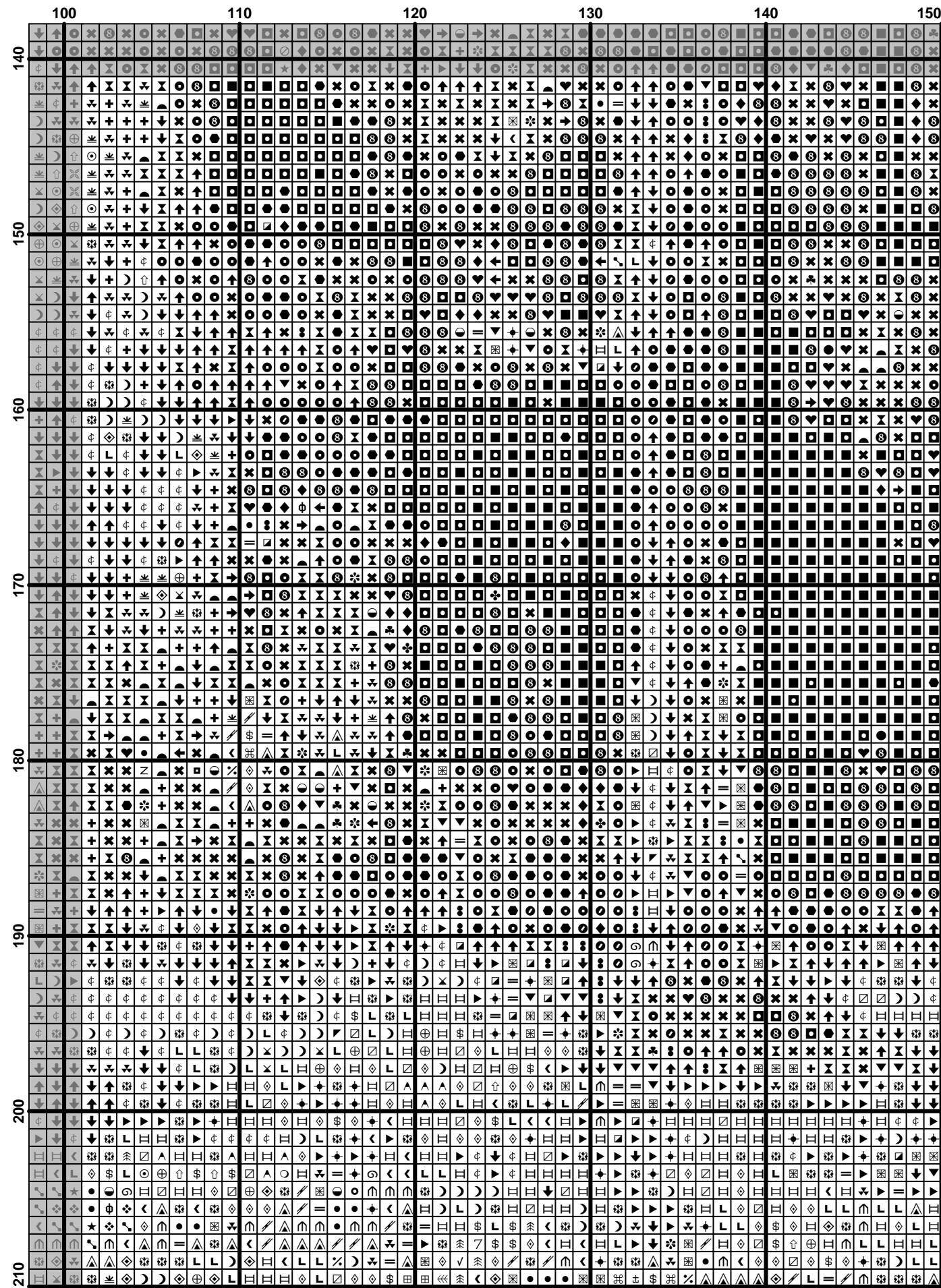
$$(25) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (26)$$

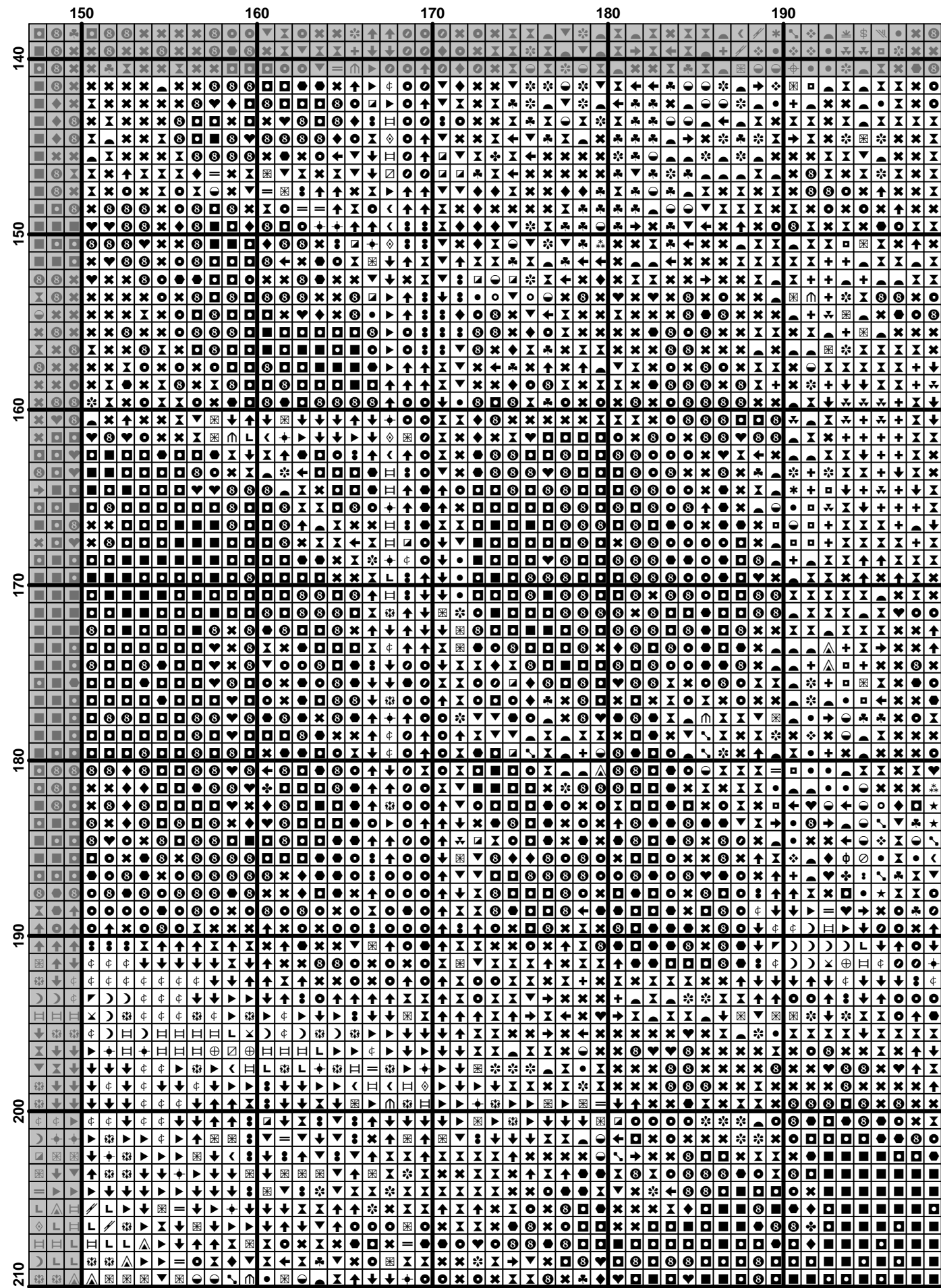
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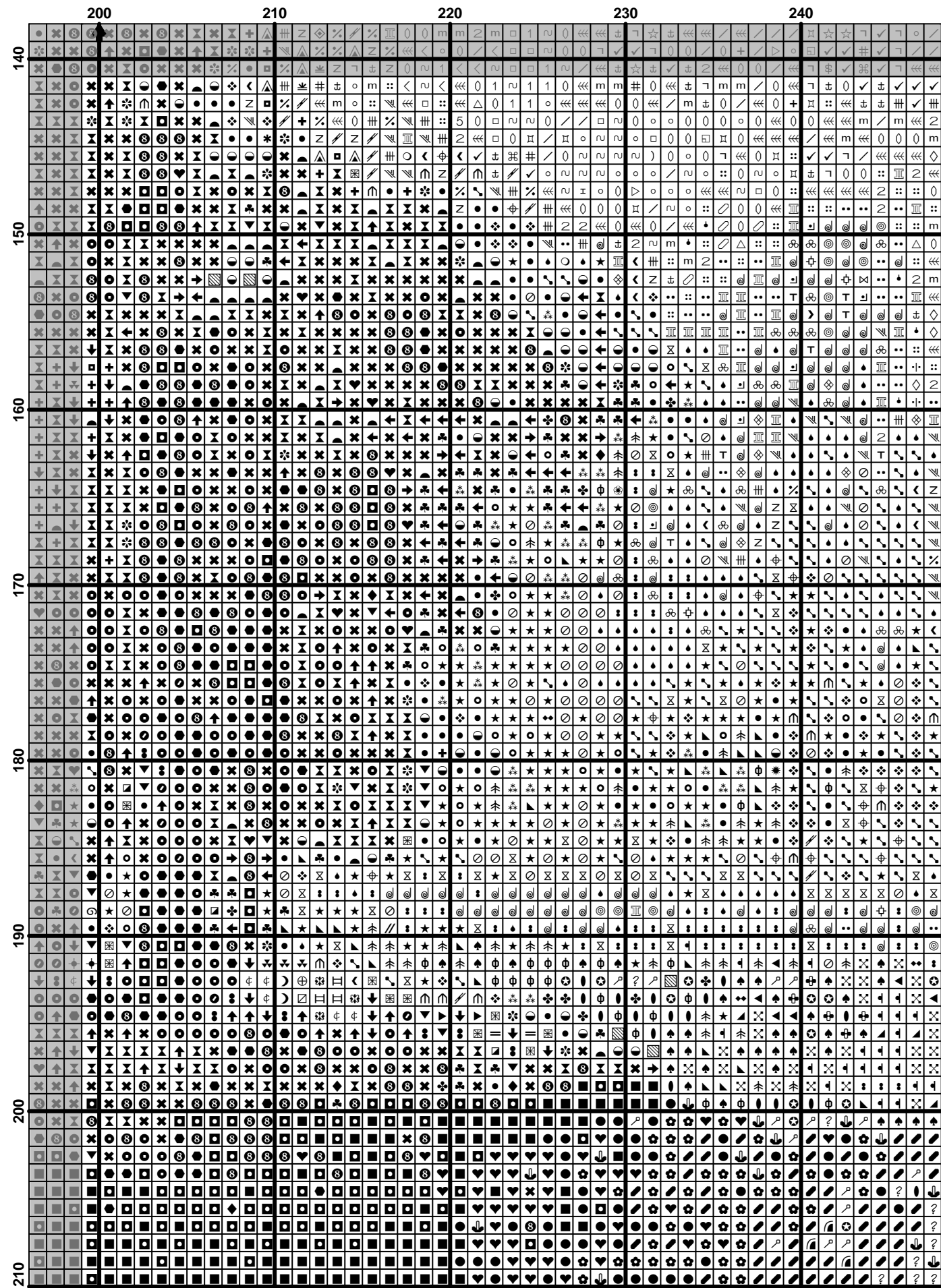




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140						
150						
160						
170						
180						
190						
200						
210						



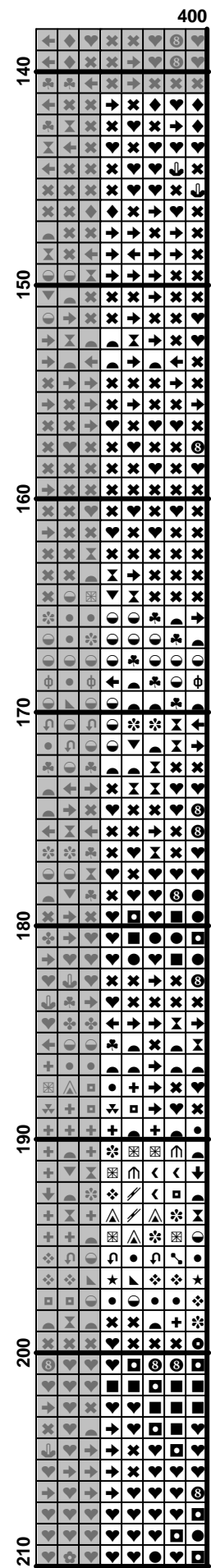




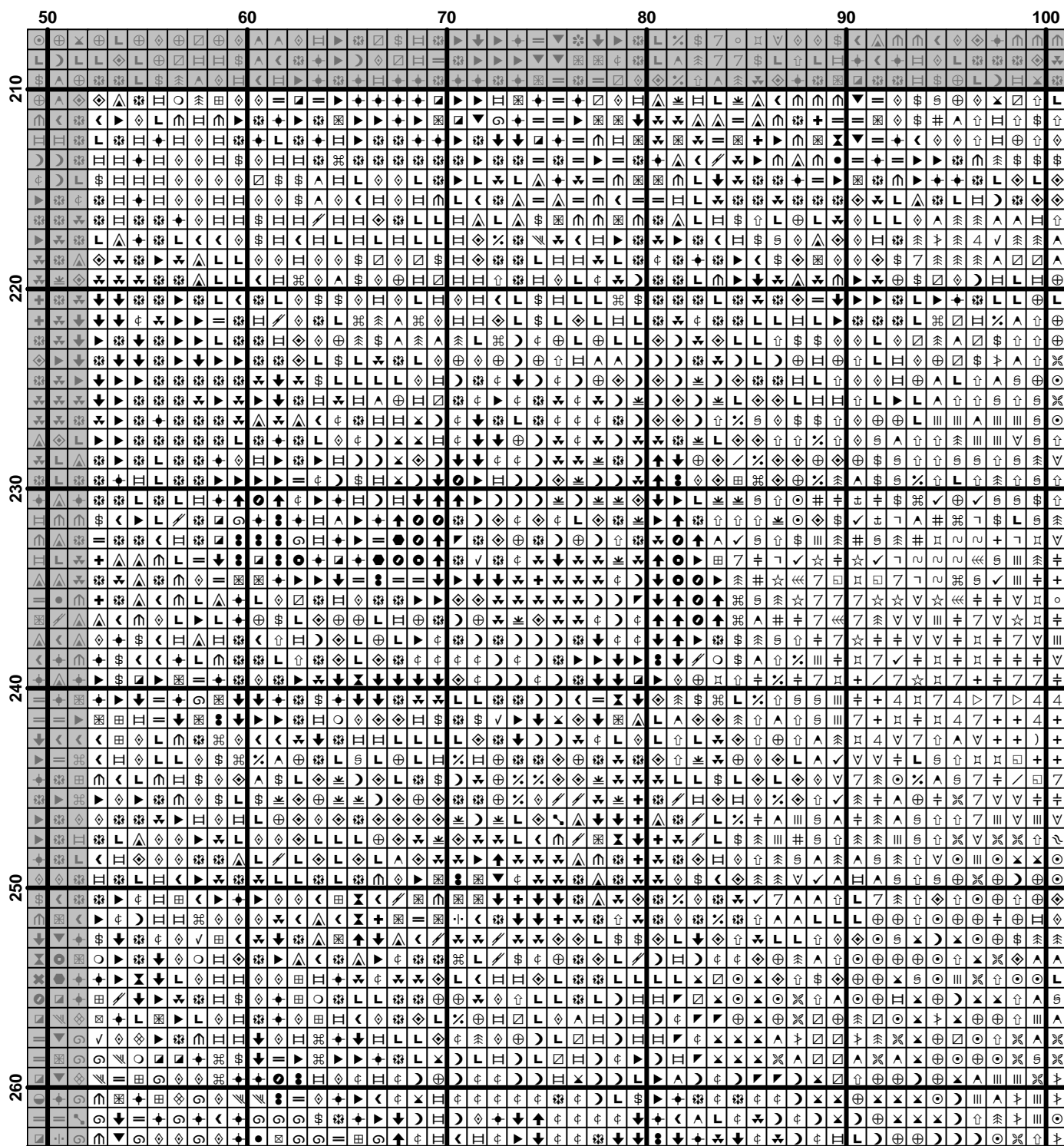
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(36)

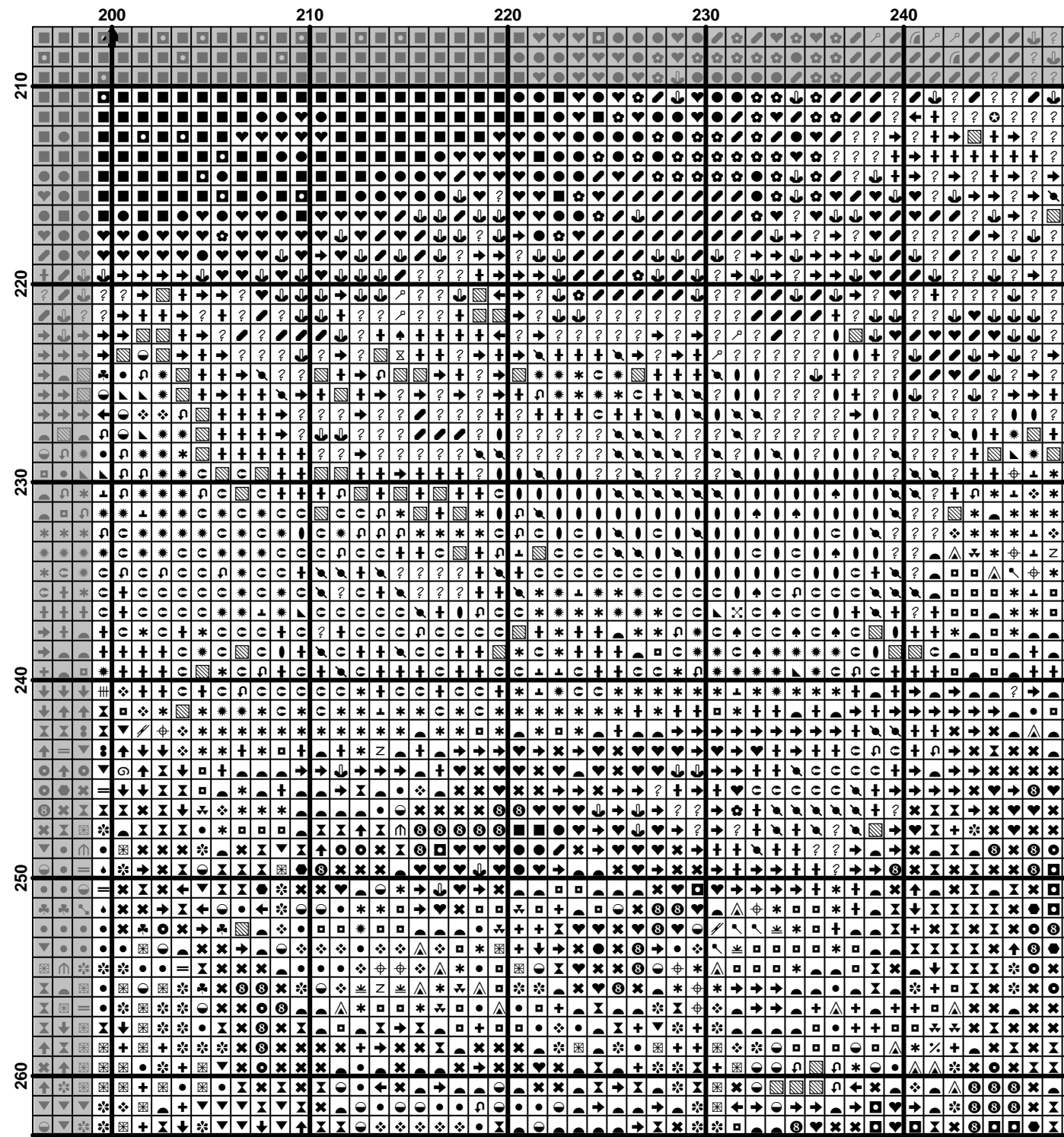


[illegible]



	100	110	120	130	140	150
210						
220						
230						
240						
250						
260						

	150	160	170	180	190
210					
220					
230					
240					
250					
260					



	250	260	270	280	290
210					
220					
230					
240					
250					
260					

	300	310	320	330	340
210					
220					
230					
240					
250					
260					

	350	360	370	380	390
210					
220					
230					
240					
250					
260					

