

1193 Friendly Neighbors



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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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Friendly Neighbors

Stitch Count	
Horizontal:	400
Vertical:	262

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	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
◀◀	224	Shell Pink-VY LT
✱	301	Mahogany-MD
✱	356	Terra Cotta-MD
✱	370	Mustard-MD
✱	371	Mustard
••	372	Mustard-LT
◎	407	Desert Sand-DK
⌂	420	Hazelnut Brown-DK
☆	422	Hazelnut Brown-LT
✿	435	Brown-VY LT
⌂	436	Tan
—	437	Tan-LT
9	453	Shell Gray-LT
☑	470	Avocado Green-LT
::	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
/	613	Drab Brown-VY LT
☐	632	Desert Sand-UL VY DK
H	640	Beige Gray-VY DK
✕	642	Beige Gray-DK
e	644	Beige Gray-MD
▼	645	Beaver Gray-VY DK
☉	646	Beaver Gray-DK
☉	647	Beaver Gray-MD
6	676	Old Gold-LT
o	712	Cream
☐	730	Olive Green-VY DK
★	732	Olive Green
☐	738	Tan-VY LT
○	739	Tan-UL VY LT
1	746	Off White
⊕	754	Peach-LT
⌂	801	Coffee Brown-DK
♂	819	Baby Pink-LT
♡	822	Beige Gray-LT
♣	829	Golden Olive-VY DK
♠	830	Golden Olive-DK
#	833	Golden Olive-LT

◆	838	Beige Brown-VY DK
♠	839	Beige Brown-DK
♣	844	Beaver Brown-UL DK
+	869	Hazelnut Brown-VY DK
//	921	Copper
♥	935	Avocado Green-DK
←	936	Avocado Green-VY DK
•	948	Peach-VY LT
⇄	950	Desert Sand-LT
<	951	Tawny-LT
)	963	Dusty Rose-UL VY LT
•	3011	Khaki Green-DK
›	3012	Khaki Green-MD
≥	3013	Khaki Green-LT
☉	3021	Brown Gray-VY DK
♠	3022	Brown Gray-MD
†	3023	Brown Gray-LT
●	3031	Mocha Brown-VY DK
☐	3032	Mocha Brown-MD
~	3045	Yellow Beige-DK
▲	3051	Green Gray-DK
◀	3052	Green Gray-MD
∴	3328	Salmon-DK
○	3341	Apricot
▲	3362	Pine Green-DK
◐	3721	Shell Pink-DK
⊥	3756	Baby Blue-UL VY LT
^	3770	Tawny-VY LT
L	3772	Desert Sand-VY DK
×	3776	Mahogany-LT
▲	3778	Terra Cotta-LT
♣	3781	Mocha Brown-DK
○	3782	Mocha Brown-LT
♠	3787	Brown Gray-DK
+	3790	Beige Gray-UL DK
♣	3799	Pewter Gray-VY DK
☐	3802	Antique Mauve-VY DK
7	3825	Pumpkin-Pale
≡	3828	Hazelnut Brown
☐	3830	Terra Cotta-MD
♂	3856	Mahogany-UL VY LT
♠	3862	Mocha Beige-DK
♠	3863	Mocha Beige-MD
↑	3864	Mocha Beige-LT
u	3865	Winter White

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

Symbol	DMC1	Name1	DMC2	Name2
⦿	522	Fern Green	611	Drab Brown
∞	746	Off White	3823	Yellow-UL Pale
⦿	640	Beige Gray-VY DK	926	Gray Green-MD
⦿	645	Beaver Gray-VY DK	3787	Brown Gray-DK
⦿	645	Beaver Gray-VY DK	3052	Green Gray-MD
➔	839	Beige Brown-DK	3021	Brown Gray-VY DK
⦿	223	Shell Pink-LT	3032	Mocha Brown-MD
⦿	645	Beaver Gray-VY DK	839	Beige Brown-DK
✕	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
⦿	3021	Brown Gray-VY DK	934	Black Avocado Green
✕	632	Desert Sand-UL VY DK	3830	Terra Cotta-MD
L	353	Peach	543	Beige Brown-UL VY LT
⦿	3778	Terra Cotta-LT	3328	Salmon-DK
⦿	758	Terra Cotta-VY LT	437	Tan-LT
⦿	3772	Desert Sand-VY DK	436	Tan
(	762	Pearl Gray-VY LT	819	Baby Pink-LT
«	819	Baby Pink-LT	3865	Winter White
∞	3756	Baby Blue-UL VY LT	819	Baby Pink-LT
+	739	Tan-UL VY LT	842	Beige Brown-VY LT
⦿	3032	Mocha Brown-MD	3790	Beige Gray-UL DK
↓	3051	Green Gray-DK	3781	Mocha Brown-DK
■	310	Black	3021	Brown Gray-VY DK
⦿	935	Avocado Green-DK	730	Olive Green-VY DK
⦿	3011	Khaki Green-DK	3362	Pine Green-DK
↑	935	Avocado Green-DK	936	Avocado Green-VY DK
⦿	838	Beige Brown-VY DK	3799	Pewter Gray-VY DK
⊕	371	Mustard	640	Beige Gray-VY DK
⦿	407	Desert Sand-DK	3861	Cocoa-LT
⦿	3861	Cocoa-LT	451	Shell Gray-DK
⦿	3363	Pine Green-MD	3790	Beige Gray-UL DK
=	3052	Green Gray-MD	839	Beige Brown-DK
⦿	3021	Brown Gray-VY DK	3787	Brown Gray-DK
⦿	937	Avocado Green-MD	3787	Brown Gray-DK
⦿	372	Mustard-LT	3348	Yellow Green-LT
⦿	938	Coffee Brown-UL DK	3021	Brown Gray-VY DK
⦿	435	Brown-VY LT	3772	Desert Sand-VY DK
⦿	3828	Hazelnut Brown	3772	Desert Sand-VY DK
T	436	Tan	435	Brown-VY LT
▲	632	Desert Sand-UL VY DK	840	Beige Brown-MD
◇	3827	Golden Brown-Pale	3046	Yellow Beige-MD
❖	301	Mahogany-MD	420	Hazelnut Brown-DK
∅	420	Hazelnut Brown-DK	832	Golden Olive
Z	831	Golden Olive-MD	833	Golden Olive-LT
↘	436	Tan	612	Drab Brown-LT
◇	840	Beige Brown-MD	3772	Desert Sand-VY DK
∅	402	Mahogany-VY LT	3770	Tawny-VY LT
⌘	356	Terra Cotta-MD	223	Shell Pink-LT
⦿	3341	Apricot	3854	Autumn Gold-MD
⦿	436	Tan	3853	Autumn Gold-DK
▲	921	Copper	347	Salmon-VY DK
√	3341	Apricot	3825	Pumpkin-Pale
III	407	Desert Sand-DK	760	Salmon
□	225	Shell Pink-UL VY LT	948	Peach-VY LT

●	935	Avocado Green-DK	938	Coffee Brown-UL DK
3	644	Beige Gray-MD	648	Beaver Gray-LT
☾	3862	Mocha Beige-DK	3787	Brown Gray-DK
⦶	524	Fern Green-VY LT	3864	Mocha Beige-LT
◀	839	Beige Brown-DK	611	Drab Brown
н	834	Golden Olive-VY LT	3045	Yellow Beige-DK
Φ	3362	Pine Green-DK	3787	Brown Gray-DK
◐	730	Olive Green-VY DK	3362	Pine Green-DK
*	3052	Green Gray-MD	829	Golden Olive-VY DK
✓	734	Olive Green-LT	3045	Yellow Beige-DK
▶	3362	Pine Green-DK	3862	Mocha Beige-DK
⬇	938	Coffee Brown-UL DK	829	Golden Olive-VY DK
m	3782	Mocha Brown-LT	738	Tan-VY LT
■	500	Blue Green-VY DK	938	Coffee Brown-UL DK
⊕	829	Golden Olive-VY DK	632	Desert Sand-UL VY DK
▲	3721	Shell Pink-DK	435	Brown-VY LT
⚙	611	Drab Brown	632	Desert Sand-UL VY DK
n	746	Off White	3770	Tawny-VY LT
✓	3778	Terra Cotta-LT	3341	Apricot
⬆	640	Beige Gray-VY DK	3790	Beige Gray-UL DK
Φ	470	Avocado Green-LT	611	Drab Brown
✕	734	Olive Green-LT	3828	Hazelnut Brown
▼	610	Drab Brown-DK	839	Beige Brown-DK
↖	436	Tan	921	Copper
♦♦	3011	Khaki Green-DK	3346	Hunter Green
▣	610	Drab Brown-DK	632	Desert Sand-UL VY DK
⌂	407	Desert Sand-DK	372	Mustard-LT
⌂	437	Tan-LT	372	Mustard-LT
⌂	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
⌂	356	Terra Cotta-MD	436	Tan
:	762	Pearl Gray-VY LT	453	Shell Gray-LT
l	739	Tan-UL VY LT	819	Baby Pink-LT
4	754	Peach-LT	3341	Apricot
5	3779	Terra Cotta-UL VY LT	3341	Apricot
▷	453	Shell Gray-LT	819	Baby Pink-LT
✕	611	Drab Brown	830	Golden Olive-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	47	18	45	17	40	15
224	Shell Pink-VY LT	7	2	6	2	6	2
225	Shell Pink-UL VY LT	6	2	6	2	5	1
301	Mahogany-MD	14	5	14	5	12	4
310	Black	409	161	390	153	351	138
347	Salmon-VY DK	1	1	1	1	1	1
353	Peach	21	8	20	7	18	7
356	Terra Cotta-MD	49	19	47	18	42	16
370	Mustard-MD	126	49	120	47	108	42
371	Mustard	490	192	467	183	420	165
372	Mustard-LT	458	180	436	171	392	154
402	Mahogany-VY LT	12	4	12	4	10	3
407	Desert Sand-DK	199	78	190	74	171	67
420	Hazelnut Brown-DK	111	43	105	41	95	37
422	Hazelnut Brown-LT	81	31	77	30	69	27
435	Brown-VY LT	102	40	97	38	87	34
436	Tan	388	152	370	145	333	131
437	Tan-LT	259	101	246	96	222	87
451	Shell Gray-DK	17	6	16	6	14	5
453	Shell Gray-LT	144	56	137	53	123	48
470	Avocado Green-LT	68	26	64	25	58	22
500	Blue Green-VY DK	148	58	141	55	127	50
522	Fern Green	88	34	83	32	75	29
524	Fern Green-VY LT	134	52	128	50	115	45
535	Ash Gray-VY LT	82	32	78	30	70	27
543	Beige Brown-UL VY LT	141	55	134	52	121	47
610	Drab Brown-DK	750	295	714	281	643	253
611	Drab Brown	939	369	895	352	805	316
612	Drab Brown-LT	591	232	563	221	507	199
613	Drab Brown-VY LT	106	41	101	39	91	35
632	Desert Sand-UL VY DK	417	164	397	156	357	140
640	Beige Gray-VY DK	608	239	579	227	521	205
642	Beige Gray-DK	155	61	148	58	133	52
644	Beige Gray-MD	162	63	154	60	139	54
645	Beaver Gray-VY DK	434	170	413	162	372	146
646	Beaver Gray-DK	47	18	44	17	40	15
647	Beaver Gray-MD	76	29	73	28	65	25
648	Beaver Gray-LT	50	19	48	18	43	16
676	Old Gold-LT	10	3	9	3	8	3
712	Cream	251	98	239	94	215	84
730	Olive Green-VY DK	176	69	168	66	151	59
732	Olive Green	14	5	13	5	12	4
734	Olive Green-LT	29	11	28	11	25	9
738	Tan-VY LT	182	71	173	68	156	61
739	Tan-UL VY LT	116	45	111	43	100	39
746	Off White	451	177	429	168	386	151
754	Peach-LT	12	4	12	4	11	4
758	Terra Cotta-VY LT	16	6	15	5	14	5
760	Salmon	1	1	1	1	1	1
762	Pearl Gray-VY LT	63	24	60	23	54	21
801	Coffee Brown-DK	94	37	90	35	81	31
819	Baby Pink-LT	779	306	742	292	667	262
822	Beige Gray-LT	96	37	92	36	82	32
829	Golden Olive-VY DK	235	92	224	88	202	79

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830	Golden Olive-DK	167	65	159	62	143	56
831	Golden Olive-MD	13	5	13	5	11	4
832	Golden Olive	15	5	15	5	13	5
833	Golden Olive-LT	26	10	24	9	22	8
834	Golden Olive-VY LT	28	11	27	10	24	9
838	Beige Brown-VY DK	486	191	463	182	417	164
839	Beige Brown-DK	1812	713	1726	679	1553	611
840	Beige Brown-MD	163	64	155	61	140	55
842	Beige Brown-VY LT	38	14	36	14	32	12
844	Beaver Brown-UL DK	653	257	622	244	560	220
869	Hazelnut Brown-VY DK	25	9	24	9	22	8
921	Copper	15	5	15	5	13	5
926	Gray Green-MD	20	7	19	7	17	6
934	Black Avocado Green	489	192	466	183	419	164
935	Avocado Green-DK	328	129	312	122	281	110
936	Avocado Green-VY DK	105	41	100	39	90	35
937	Avocado Green-MD	110	43	104	40	94	37
938	Coffee Brown-UL DK	402	158	382	150	344	135
948	Peach-VY LT	20	7	19	7	17	6
950	Desert Sand-LT	29	11	28	11	25	9
951	Tawny-LT	31	12	30	11	27	10
963	Dusty Rose-UL VY LT	2	1	2	1	2	1
3011	Khaki Green-DK	316	124	301	118	271	106
3012	Khaki Green-MD	181	71	172	67	155	61
3013	Khaki Green-LT	55	21	52	20	47	18
3021	Brown Gray-VY DK	4311	1697	4106	1616	3695	1454
3022	Brown Gray-MD	104	40	99	38	89	35
3023	Brown Gray-LT	77	30	73	28	66	25
3031	Mocha Brown-VY DK	432	170	412	162	370	145
3032	Mocha Brown-MD	401	157	382	150	344	135
3045	Yellow Beige-DK	109	42	104	40	94	37
3046	Yellow Beige-MD	23	9	21	8	19	7
3051	Green Gray-DK	653	257	622	244	560	220
3052	Green Gray-MD	404	159	385	151	347	136
3328	Salmon-DK	6	2	6	2	5	1
3341	Apricot	7	2	7	2	6	2
3346	Hunter Green	75	29	71	27	64	25
3348	Yellow Green-LT	20	7	19	7	17	6
3362	Pine Green-DK	592	233	564	222	507	199
3363	Pine Green-MD	140	55	134	52	120	47
3721	Shell Pink-DK	38	14	36	14	32	12
3756	Baby Blue-UL VY LT	231	90	220	86	198	77
3770	Tawny-VY LT	46	18	44	17	40	15
3772	Desert Sand-VY DK	464	182	442	174	398	156
3776	Mahogany-LT	5	1	5	1	4	1
3778	Terra Cotta-LT	13	5	12	4	11	4
3779	Terra Cotta-UL VY LT	0	1	0	1	0	1
3781	Mocha Brown-DK	579	227	551	216	496	195
3782	Mocha Brown-LT	137	53	131	51	118	46
3787	Brown Gray-DK	1359	535	1294	509	1165	458
3790	Beige Gray-UL DK	819	322	780	307	702	276
3799	Pewter Gray-VY DK	507	199	483	190	434	170
3802	Antique Mauve-VY DK	16	6	15	5	13	5
3823	Yellow-UL Pale	3	1	3	1	2	1
3825	Pumpkin-Pale	8	3	8	3	7	2
3827	Golden Brown-Pale	23	9	21	8	19	7
3828	Hazelnut Brown	239	94	228	89	205	80
3830	Terra Cotta-MD	25	9	24	9	22	8
3853	Autumn Gold-DK	4	1	4	1	4	1

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3854	Autumn Gold-MD	0	1	0	1	0	1
3856	Mahogany-UL VY LT	23	9	22	8	20	7
3861	Cocoa-LT	28	11	27	10	24	9
3862	Mocha Beige-DK	547	215	521	205	469	184
3863	Mocha Beige-MD	324	127	309	121	278	109
3864	Mocha Beige-LT	89	35	85	33	76	29
3865	Winter White	639	251	609	239	548	215

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	72	27	60	23	30	11
224	Shell Pink-VY LT	11	4	9	3	5	2
225	Shell Pink-UL VY LT	9	2	8	2	4	1
301	Mahogany-MD	22	7	18	6	9	3
310	Black	632	248	527	207	263	104
347	Salmon-VY DK	2	2	2	2	1	1
353	Peach	32	13	27	11	14	5
356	Terra Cotta-MD	76	29	63	24	32	12
370	Mustard-MD	194	76	162	63	81	32
371	Mustard	756	297	630	248	315	124
372	Mustard-LT	706	277	588	231	294	116
402	Mahogany-VY LT	18	5	15	5	8	2
407	Desert Sand-DK	308	121	257	101	128	50
420	Hazelnut Brown-DK	171	67	143	56	71	28
422	Hazelnut Brown-LT	124	49	104	41	52	20
435	Brown-VY LT	157	61	131	51	65	26
436	Tan	599	236	500	197	250	98
437	Tan-LT	400	157	333	131	167	65
451	Shell Gray-DK	25	9	21	8	11	4
453	Shell Gray-LT	221	86	185	72	92	36
470	Avocado Green-LT	104	40	87	33	44	17
500	Blue Green-VY DK	229	90	191	75	95	38
522	Fern Green	135	52	113	44	56	22
524	Fern Green-VY LT	207	81	173	68	86	34
535	Ash Gray-VY LT	126	49	105	41	53	20
543	Beige Brown-UL VY LT	218	85	182	71	91	35
610	Drab Brown-DK	1157	455	965	380	482	190
611	Drab Brown	1449	569	1208	474	604	237
612	Drab Brown-LT	913	358	761	299	380	149
613	Drab Brown-VY LT	164	63	137	53	68	26
632	Desert Sand-UL VY DK	643	252	536	210	268	105
640	Beige Gray-VY DK	938	369	782	308	391	154
642	Beige Gray-DK	239	94	200	78	100	39
644	Beige Gray-MD	250	97	209	81	104	41
645	Beaver Gray-VY DK	670	263	558	219	279	110
646	Beaver Gray-DK	72	27	60	23	30	11
647	Beaver Gray-MD	117	45	98	38	49	19
648	Beaver Gray-LT	77	29	65	24	32	12
676	Old Gold-LT	14	5	12	5	6	2
712	Cream	387	151	323	126	161	63
730	Olive Green-VY DK	272	106	227	89	113	44
732	Olive Green	22	7	18	6	9	3
734	Olive Green-LT	45	16	38	14	19	7
738	Tan-VY LT	281	110	234	92	117	46
739	Tan-UL VY LT	180	70	150	59	75	29

746	Off White	695	272	579	227	290	113
754	Peach-LT	20	7	17	6	8	3
758	Terra Cotta-VY LT	25	9	21	8	11	4
760	Salmon	2	2	2	2	1	1
762	Pearl Gray-VY LT	97	38	81	32	41	16
801	Coffee Brown-DK	146	56	122	47	61	23
819	Baby Pink-LT	1201	472	1001	393	500	197
822	Beige Gray-LT	148	58	123	48	62	24
829	Golden Olive-VY DK	364	142	303	119	152	59
830	Golden Olive-DK	257	101	215	84	107	42
831	Golden Olive-MD	20	7	17	6	8	3
832	Golden Olive	23	9	20	8	10	4
833	Golden Olive-LT	40	14	33	12	17	6
834	Golden Olive-VY LT	43	16	36	14	18	7
838	Beige Brown-VY DK	751	295	626	246	313	123
839	Beige Brown-DK	2795	1100	2330	917	1165	458
840	Beige Brown-MD	252	99	210	83	105	41
842	Beige Brown-VY LT	58	22	48	18	24	9
844	Beaver Brown-UL DK	1008	396	840	330	420	165
869	Hazelnut Brown-VY DK	40	14	33	12	17	6
921	Copper	23	9	20	8	10	4
926	Gray Green-MD	31	11	26	9	13	5
934	Black Avocado Green	754	295	629	246	314	123
935	Avocado Green-DK	506	198	422	165	211	83
936	Avocado Green-VY DK	162	63	135	53	68	26
937	Avocado Green-MD	169	67	141	56	71	28
938	Coffee Brown-UL DK	619	243	516	203	258	101
948	Peach-VY LT	31	11	26	9	13	5
950	Desert Sand-LT	45	16	38	14	19	7
951	Tawny-LT	49	18	41	15	20	8
963	Dusty Rose-UL VY LT	4	2	3	2	2	1
3011	Khaki Green-DK	488	191	407	159	203	80
3012	Khaki Green-MD	279	110	233	92	116	46
3013	Khaki Green-LT	85	32	71	27	35	14
3021	Brown Gray-VY DK	6651	2617	5543	2181	2771	1091
3022	Brown Gray-MD	160	63	134	53	67	26
3023	Brown Gray-LT	119	45	99	38	50	19
3031	Mocha Brown-VY DK	666	261	555	218	278	109
3032	Mocha Brown-MD	619	243	516	203	258	101
3045	Yellow Beige-DK	169	67	141	56	71	28
3046	Yellow Beige-MD	34	13	29	11	14	5
3051	Green Gray-DK	1008	396	840	330	420	165
3052	Green Gray-MD	625	245	521	204	260	102
3328	Salmon-DK	9	2	8	2	4	1
3341	Apricot	11	4	9	3	5	2
3346	Hunter Green	115	45	96	38	48	19
3348	Yellow Green-LT	31	11	26	9	13	5
3362	Pine Green-DK	913	358	761	299	380	149
3363	Pine Green-MD	216	85	180	71	90	35
3721	Shell Pink-DK	58	22	48	18	24	9
3756	Baby Blue-UL VY LT	356	139	297	116	149	58
3770	Tawny-VY LT	72	27	60	23	30	11
3772	Desert Sand-VY DK	716	281	597	234	299	117
3776	Mahogany-LT	7	2	6	2	3	1
3778	Terra Cotta-LT	20	7	17	6	8	3
3779	Terra Cotta-UL VY LT	0	2	0	2	0	1
3781	Mocha Brown-DK	893	351	744	293	372	146
3782	Mocha Brown-LT	212	83	177	69	89	35
3787	Brown Gray-DK	2097	824	1748	687	874	344

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3790	Beige Gray-UL DK	1264	497	1053	414	527	207
3799	Pewter Gray-VY DK	781	306	651	255	326	128
3802	Antique Mauve-VY DK	23	9	20	8	10	4
3823	Yellow-UL Pale	4	2	3	2	2	1
3825	Pumpkin-Pale	13	4	11	3	5	2
3827	Golden Brown-Pale	34	13	29	11	14	5
3828	Hazelnut Brown	369	144	308	120	154	60
3830	Terra Cotta-MD	40	14	33	12	17	6
3853	Autumn Gold-DK	7	2	6	2	3	1
3854	Autumn Gold-MD	0	2	0	2	0	1
3856	Mahogany-UL VY LT	36	13	30	11	15	5
3861	Cocoa-LT	43	16	36	14	18	7
3862	Mocha Beige-DK	844	331	704	276	352	138
3863	Mocha Beige-MD	500	196	417	164	209	82
3864	Mocha Beige-LT	137	52	114	44	57	22
3865	Winter White	986	387	822	323	411	161

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	29	11	28	10	27	10
224	Shell Pink-VY LT	4	1	4	1	4	1
225	Shell Pink-UL VY LT	4	1	3	1	3	1
301	Mahogany-MD	9	3	8	3	8	3
310	Black	253	99	243	96	234	92
347	Salmon-VY DK	1	1	1	1	1	1
353	Peach	13	5	12	5	12	5
356	Terra Cotta-MD	30	12	29	11	28	11
370	Mustard-MD	78	30	75	29	72	28
371	Mustard	302	119	291	114	280	110
372	Mustard-LT	282	111	271	107	261	103
402	Mahogany-VY LT	7	2	7	2	7	2
407	Desert Sand-DK	123	48	118	46	114	45
420	Hazelnut Brown-DK	68	27	66	26	63	25
422	Hazelnut Brown-LT	50	19	48	19	46	18
435	Brown-VY LT	63	24	60	24	58	23
436	Tan	240	94	231	91	222	87
437	Tan-LT	160	63	154	60	148	58
451	Shell Gray-DK	10	4	10	3	9	3
453	Shell Gray-LT	89	35	85	33	82	32
470	Avocado Green-LT	42	16	40	15	39	15
500	Blue Green-VY DK	91	36	88	35	85	33
522	Fern Green	54	21	52	20	50	19
524	Fern Green-VY LT	83	32	80	31	77	30
535	Ash Gray-VY LT	50	19	48	19	47	18
543	Beige Brown-UL VY LT	87	34	84	33	81	31
610	Drab Brown-DK	463	182	445	175	429	169
611	Drab Brown	580	228	557	219	537	211
612	Drab Brown-LT	365	143	351	138	338	133
613	Drab Brown-VY LT	66	25	63	24	61	23
632	Desert Sand-UL VY DK	257	101	247	97	238	93
640	Beige Gray-VY DK	375	148	361	142	347	137
642	Beige Gray-DK	96	37	92	36	89	35
644	Beige Gray-MD	100	39	96	37	93	36
645	Beaver Gray-VY DK	268	105	258	101	248	97
646	Beaver Gray-DK	29	11	28	10	27	10

647	Beaver Gray-MD	47	18	45	17	43	17
648	Beaver Gray-LT	31	12	30	11	29	11
676	Old Gold-LT	6	2	6	2	5	2
712	Cream	155	60	149	58	143	56
730	Olive Green-VY DK	109	42	105	41	101	39
732	Olive Green	9	3	8	3	8	3
734	Olive Green-LT	18	6	17	6	17	6
738	Tan-VY LT	112	44	108	42	104	41
739	Tan-UL VY LT	72	28	69	27	67	26
746	Off White	278	109	267	105	257	101
754	Peach-LT	8	3	8	3	7	3
758	Terra Cotta-VY LT	10	4	10	3	9	3
760	Salmon	1	1	1	1	1	1
762	Pearl Gray-VY LT	39	15	37	15	36	14
801	Coffee Brown-DK	58	22	56	21	54	21
819	Baby Pink-LT	480	189	462	181	445	175
822	Beige Gray-LT	59	23	57	22	55	21
829	Golden Olive-VY DK	145	57	140	55	135	53
830	Golden Olive-DK	103	40	99	39	95	37
831	Golden Olive-MD	8	3	8	3	7	3
832	Golden Olive	9	4	9	3	9	3
833	Golden Olive-LT	16	6	15	6	15	5
834	Golden Olive-VY LT	17	6	17	6	16	6
838	Beige Brown-VY DK	300	118	289	114	278	109
839	Beige Brown-DK	1118	440	1075	423	1035	407
840	Beige Brown-MD	101	40	97	38	93	37
842	Beige Brown-VY LT	23	9	22	8	21	8
844	Beaver Brown-UL DK	403	158	388	152	373	147
869	Hazelnut Brown-VY DK	16	6	15	6	15	5
921	Copper	9	4	9	3	9	3
926	Gray Green-MD	12	4	12	4	11	4
934	Black Avocado Green	302	118	290	114	279	109
935	Avocado Green-DK	202	79	195	76	187	73
936	Avocado Green-VY DK	65	25	62	24	60	23
937	Avocado Green-MD	68	27	65	26	63	25
938	Coffee Brown-UL DK	248	97	238	93	229	90
948	Peach-VY LT	12	4	12	4	11	4
950	Desert Sand-LT	18	6	17	6	17	6
951	Tawny-LT	19	7	19	7	18	7
963	Dusty Rose-UL VY LT	1	1	1	1	1	1
3011	Khaki Green-DK	195	76	188	73	181	71
3012	Khaki Green-MD	112	44	107	42	103	41
3013	Khaki Green-LT	34	13	33	12	31	12
3021	Brown Gray-VY DK	2660	1047	2558	1007	2463	969
3022	Brown Gray-MD	64	25	62	24	59	23
3023	Brown Gray-LT	48	18	46	17	44	17
3031	Mocha Brown-VY DK	266	104	256	100	247	97
3032	Mocha Brown-MD	248	97	238	93	229	90
3045	Yellow Beige-DK	68	27	65	26	63	25
3046	Yellow Beige-MD	14	5	13	5	13	5
3051	Green Gray-DK	403	158	388	152	373	147
3052	Green Gray-MD	250	98	240	94	231	91
3328	Salmon-DK	4	1	3	1	3	1
3341	Apricot	4	1	4	1	4	1
3346	Hunter Green	46	18	44	17	43	17
3348	Yellow Green-LT	12	4	12	4	11	4
3362	Pine Green-DK	365	143	351	138	338	133
3363	Pine Green-MD	86	34	83	33	80	31
3721	Shell Pink-DK	23	9	22	8	21	8

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3756	Baby Blue-UL VY LT	143	55	137	53	132	51
3770	Tawny-VY LT	29	11	28	10	27	10
3772	Desert Sand-VY DK	287	112	276	108	265	104
3776	Mahogany-LT	3	1	3	1	3	1
3778	Terra Cotta-LT	8	3	8	3	7	3
3779	Terra Cotta-UL VY LT	0	1	0	1	0	1
3781	Mocha Brown-DK	357	140	343	135	331	130
3782	Mocha Brown-LT	85	33	82	32	79	31
3787	Brown Gray-DK	839	330	807	317	777	305
3790	Beige Gray-UL DK	505	199	486	191	468	184
3799	Pewter Gray-VY DK	312	122	300	118	289	113
3802	Antique Mauve-VY DK	9	4	9	3	9	3
3823	Yellow-UL Pale	1	1	1	1	1	1
3825	Pumpkin-Pale	5	1	5	1	5	1
3827	Golden Brown-Pale	14	5	13	5	13	5
3828	Hazelnut Brown	148	58	142	55	137	53
3830	Terra Cotta-MD	16	6	15	6	15	5
3853	Autumn Gold-DK	3	1	3	1	3	1
3854	Autumn Gold-MD	0	1	0	1	0	1
3856	Mahogany-UL VY LT	14	5	14	5	13	5
3861	Cocoa-LT	17	6	17	6	16	6
3862	Mocha Beige-DK	338	132	325	127	313	123
3863	Mocha Beige-MD	200	78	192	75	185	73
3864	Mocha Beige-LT	55	21	53	20	51	19
3865	Winter White	395	155	379	149	365	143

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	26	10	24	9	23	8
224	Shell Pink-VY LT	4	1	4	1	3	1
225	Shell Pink-UL VY LT	3	1	3	1	3	1
301	Mahogany-MD	8	3	7	2	7	2
310	Black	226	89	211	83	197	78
347	Salmon-VY DK	1	1	1	1	1	1
353	Peach	12	5	11	4	10	4
356	Terra Cotta-MD	27	10	25	10	24	9
370	Mustard-MD	69	27	65	25	61	24
371	Mustard	270	106	252	99	236	93
372	Mustard-LT	252	99	235	92	221	87
402	Mahogany-VY LT	6	2	6	2	6	2
407	Desert Sand-DK	110	43	103	40	96	38
420	Hazelnut Brown-DK	61	24	57	22	53	21
422	Hazelnut Brown-LT	44	17	41	16	39	15
435	Brown-VY LT	56	22	52	20	49	19
436	Tan	214	84	200	79	187	74
437	Tan-LT	143	56	133	52	125	49
451	Shell Gray-DK	9	3	8	3	8	3
453	Shell Gray-LT	79	31	74	29	69	27
470	Avocado Green-LT	37	14	35	13	33	12
500	Blue Green-VY DK	82	32	76	30	71	28
522	Fern Green	48	19	45	17	42	16
524	Fern Green-VY LT	74	29	69	27	65	25
535	Ash Gray-VY LT	45	17	42	16	39	15
543	Beige Brown-UL VY LT	78	30	73	28	68	26
610	Drab Brown-DK	413	163	386	152	362	142
611	Drab Brown	518	203	483	190	453	178

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612	Drab Brown-LT	326	128	304	119	285	112
613	Drab Brown-VY LT	59	23	55	21	51	20
632	Desert Sand-UL VY DK	230	90	214	84	201	79
640	Beige Gray-VY DK	335	132	313	123	293	115
642	Beige Gray-DK	86	33	80	31	75	29
644	Beige Gray-MD	89	35	83	32	78	30
645	Beaver Gray-VY DK	239	94	223	88	209	82
646	Beaver Gray-DK	26	10	24	9	23	8
647	Beaver Gray-MD	42	16	39	15	37	14
648	Beaver Gray-LT	28	10	26	10	24	9
676	Old Gold-LT	5	2	5	2	5	2
712	Cream	138	54	129	50	121	47
730	Olive Green-VY DK	97	38	91	35	85	33
732	Olive Green	8	3	7	2	7	2
734	Olive Green-LT	16	6	15	5	14	5
738	Tan-VY LT	100	39	94	37	88	34
739	Tan-UL VY LT	64	25	60	23	56	22
746	Off White	248	97	232	91	217	85
754	Peach-LT	7	3	7	2	6	2
758	Terra Cotta-VY LT	9	3	8	3	8	3
760	Salmon	1	1	1	1	1	1
762	Pearl Gray-VY LT	35	14	32	13	30	12
801	Coffee Brown-DK	52	20	49	19	46	17
819	Baby Pink-LT	429	168	400	157	375	147
822	Beige Gray-LT	53	21	49	19	46	18
829	Golden Olive-VY DK	130	51	121	47	114	44
830	Golden Olive-DK	92	36	86	34	80	32
831	Golden Olive-MD	7	3	7	2	6	2
832	Golden Olive	8	3	8	3	7	3
833	Golden Olive-LT	14	5	13	5	12	5
834	Golden Olive-VY LT	15	6	14	5	14	5
838	Beige Brown-VY DK	268	105	250	98	235	92
839	Beige Brown-DK	998	393	932	367	874	344
840	Beige Brown-MD	90	35	84	33	79	31
842	Beige Brown-VY LT	21	8	19	7	18	7
844	Beaver Brown-UL DK	360	141	336	132	315	124
869	Hazelnut Brown-VY DK	14	5	13	5	12	5
921	Copper	8	3	8	3	7	3
926	Gray Green-MD	11	4	10	4	10	3
934	Black Avocado Green	269	105	251	98	236	92
935	Avocado Green-DK	181	71	169	66	158	62
936	Avocado Green-VY DK	58	23	54	21	51	20
937	Avocado Green-MD	60	24	56	22	53	21
938	Coffee Brown-UL DK	221	87	206	81	194	76
948	Peach-VY LT	11	4	10	4	10	3
950	Desert Sand-LT	16	6	15	5	14	5
951	Tawny-LT	17	6	16	6	15	6
963	Dusty Rose-UL VY LT	1	1	1	1	1	1
3011	Khaki Green-DK	174	68	163	64	152	60
3012	Khaki Green-MD	100	39	93	37	87	34
3013	Khaki Green-LT	30	12	28	11	26	10
3021	Brown Gray-VY DK	2375	935	2217	872	2078	818
3022	Brown Gray-MD	57	23	53	21	50	20
3023	Brown Gray-LT	42	16	40	15	37	14
3031	Mocha Brown-VY DK	238	93	222	87	208	82
3032	Mocha Brown-MD	221	87	206	81	194	76
3045	Yellow Beige-DK	60	24	56	22	53	21
3046	Yellow Beige-MD	12	5	11	4	11	4
3051	Green Gray-DK	360	141	336	132	315	124

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3052	Green Gray-MD	223	87	208	82	195	77
3328	Salmon-DK	3	1	3	1	3	1
3341	Apricot	4	1	4	1	3	1
3346	Hunter Green	41	16	38	15	36	14
3348	Yellow Green-LT	11	4	10	4	10	3
3362	Pine Green-DK	326	128	304	119	285	112
3363	Pine Green-MD	77	30	72	28	68	26
3721	Shell Pink-DK	21	8	19	7	18	7
3756	Baby Blue-UL VY LT	127	50	119	46	111	43
3770	Tawny-VY LT	26	10	24	9	23	8
3772	Desert Sand-VY DK	256	100	239	94	224	88
3776	Mahogany-LT	3	1	2	1	2	1
3778	Terra Cotta-LT	7	3	7	2	6	2
3779	Terra Cotta-UL VY LT	0	1	0	1	0	1
3781	Mocha Brown-DK	319	125	298	117	279	110
3782	Mocha Brown-LT	76	30	71	28	66	26
3787	Brown Gray-DK	749	294	699	275	655	258
3790	Beige Gray-UL DK	451	177	421	166	395	155
3799	Pewter Gray-VY DK	279	109	260	102	244	96
3802	Antique Mauve-VY DK	8	3	8	3	7	3
3823	Yellow-UL Pale	1	1	1	1	1	1
3825	Pumpkin-Pale	5	1	4	1	4	1
3827	Golden Brown-Pale	12	5	11	4	11	4
3828	Hazelnut Brown	132	51	123	48	115	45
3830	Terra Cotta-MD	14	5	13	5	12	5
3853	Autumn Gold-DK	3	1	2	1	2	1
3854	Autumn Gold-MD	0	1	0	1	0	1
3856	Mahogany-UL VY LT	13	5	12	4	11	4
3861	Cocoa-LT	15	6	14	5	14	5
3862	Mocha Beige-DK	302	118	281	110	264	104
3863	Mocha Beige-MD	179	70	167	65	156	61
3864	Mocha Beige-LT	49	19	46	17	43	16
3865	Winter White	352	138	329	129	308	121

(10)

$$(10) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (11)$$

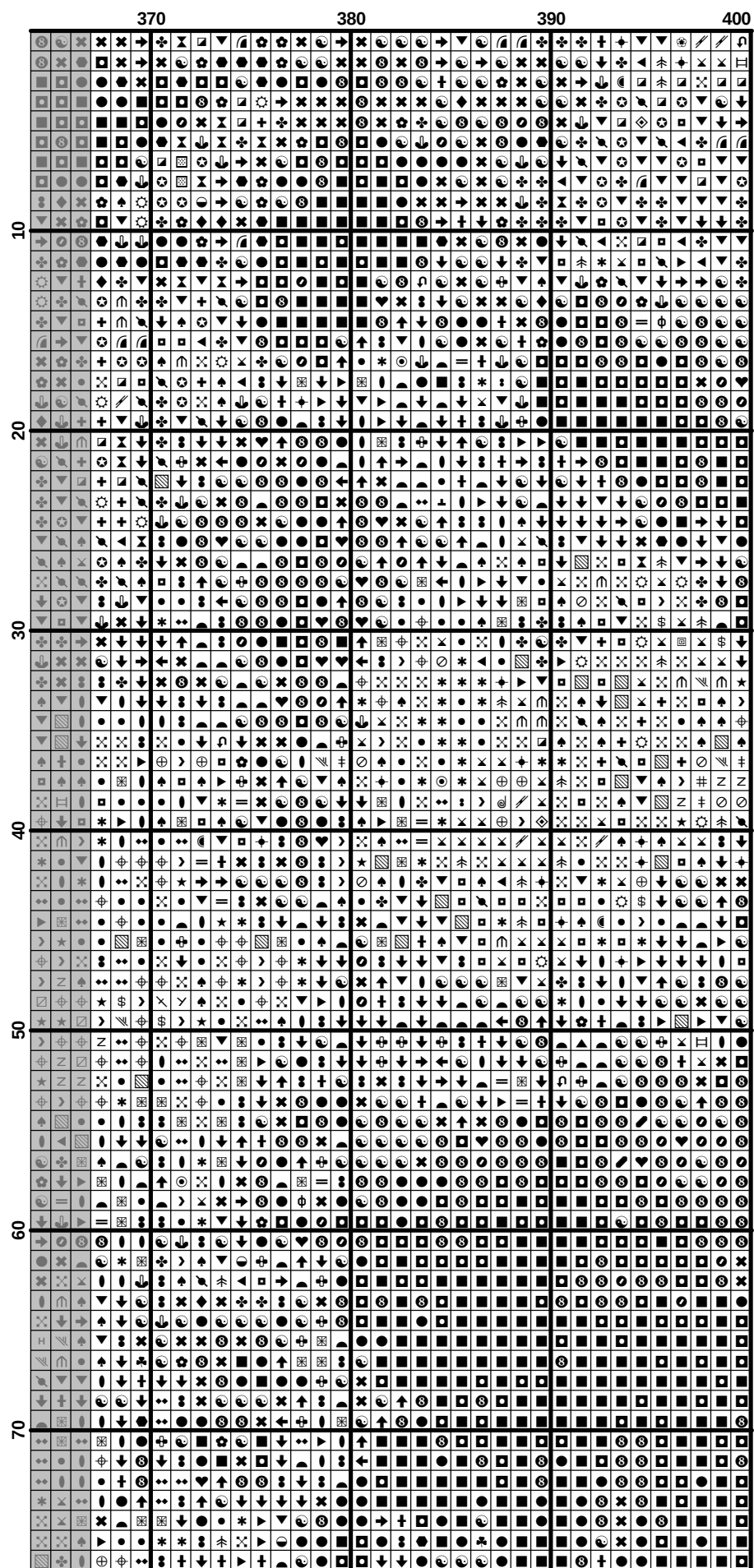
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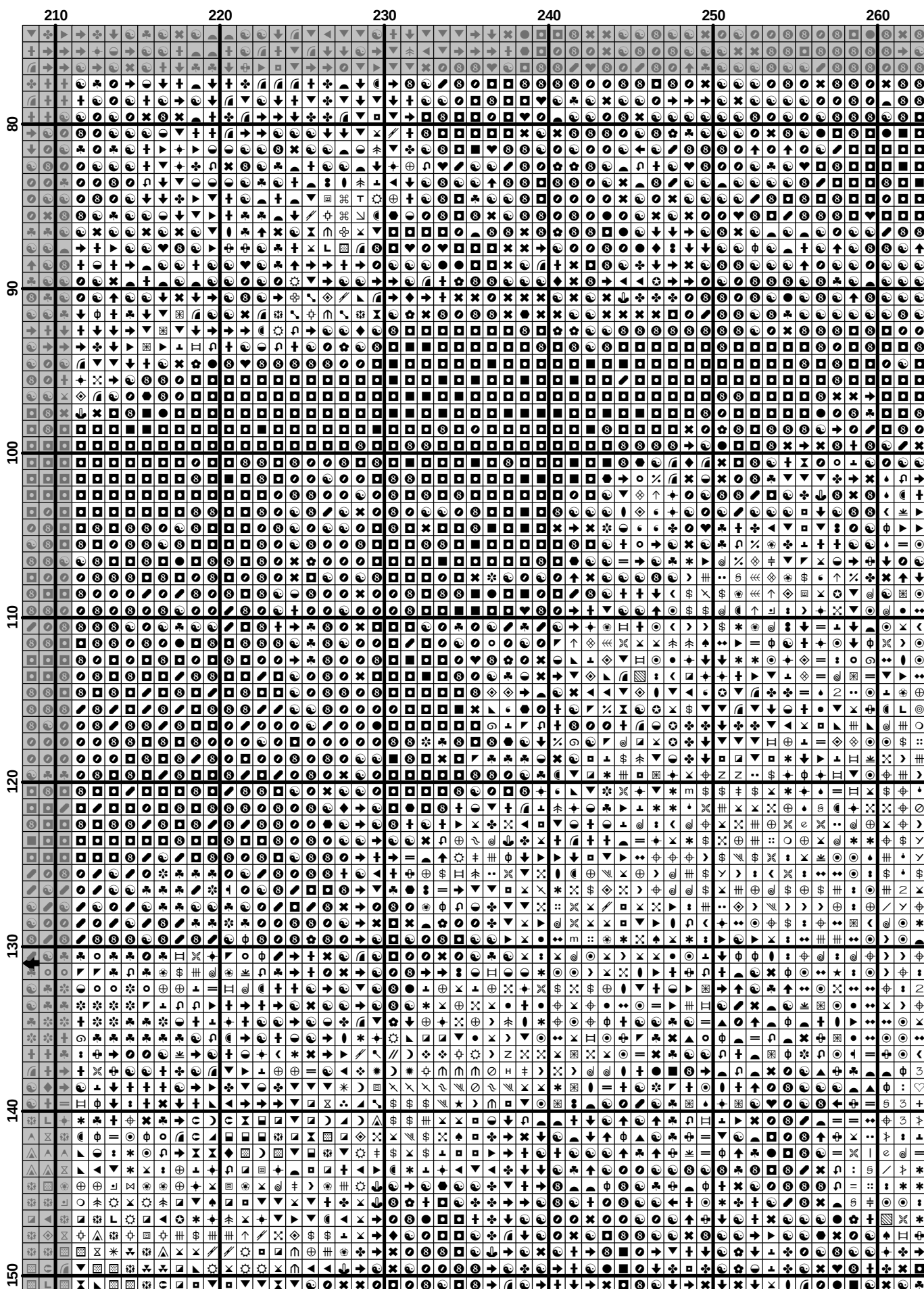


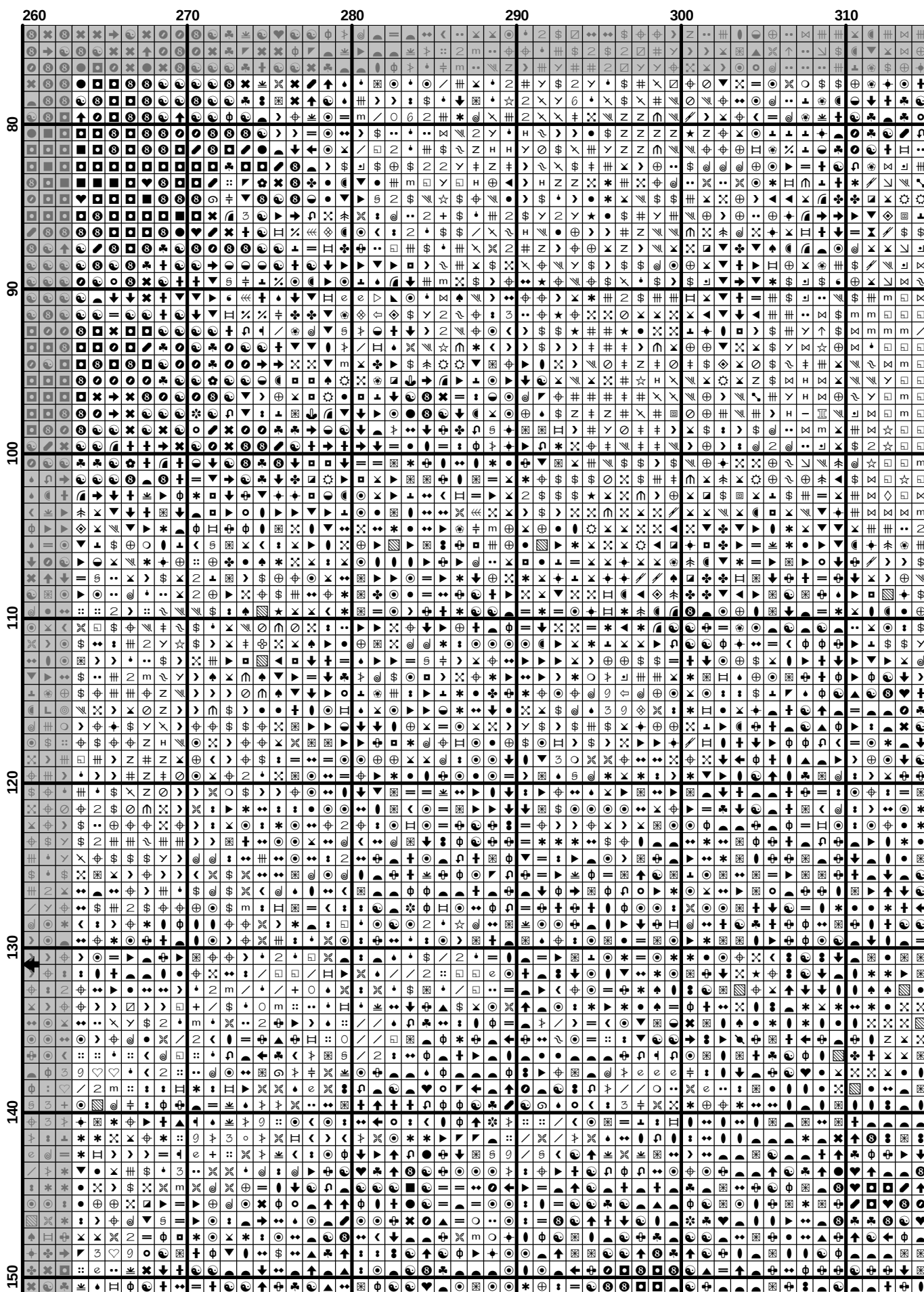
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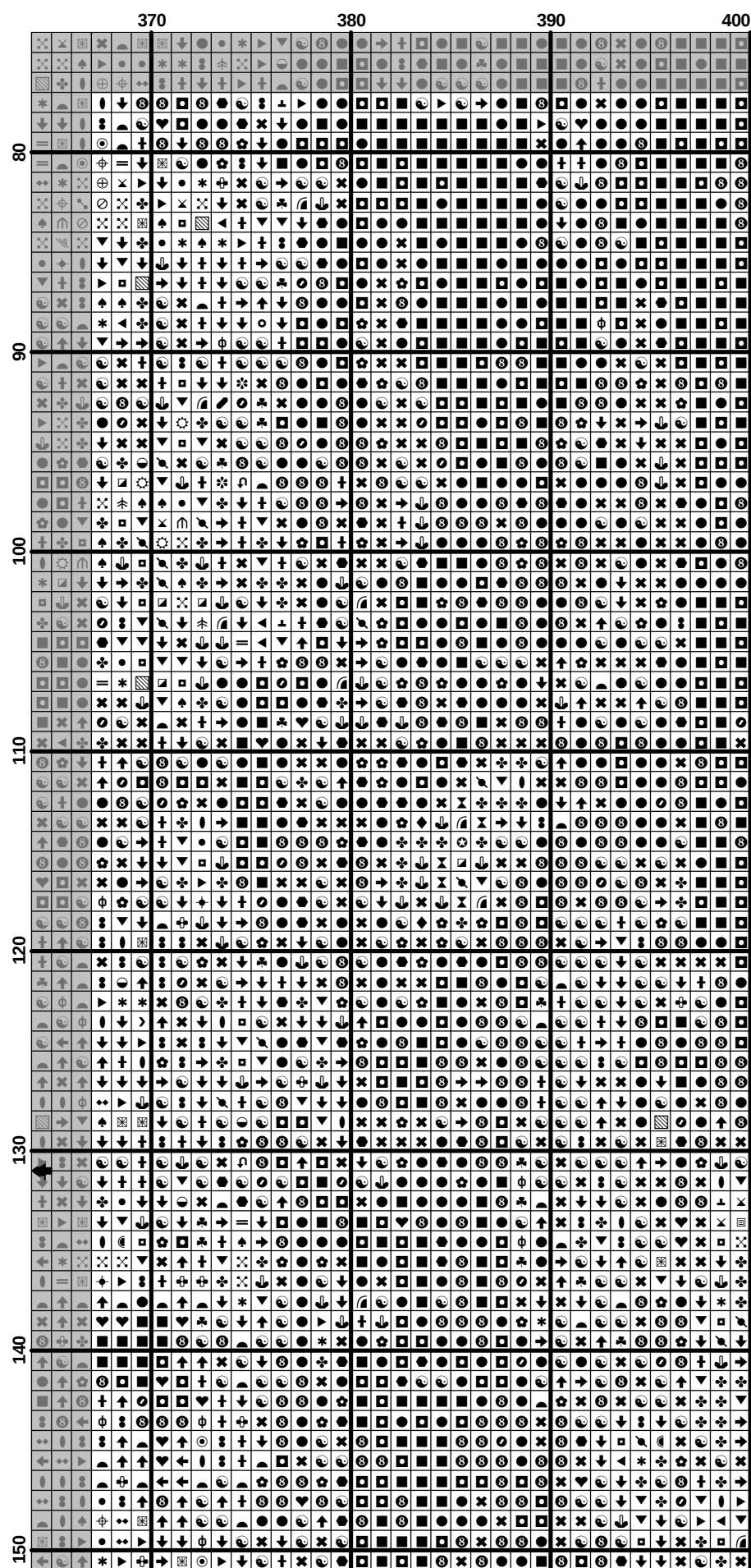
	110	120	130	140	150
80					
90					
100					
110					
120					
130					
140					
150					

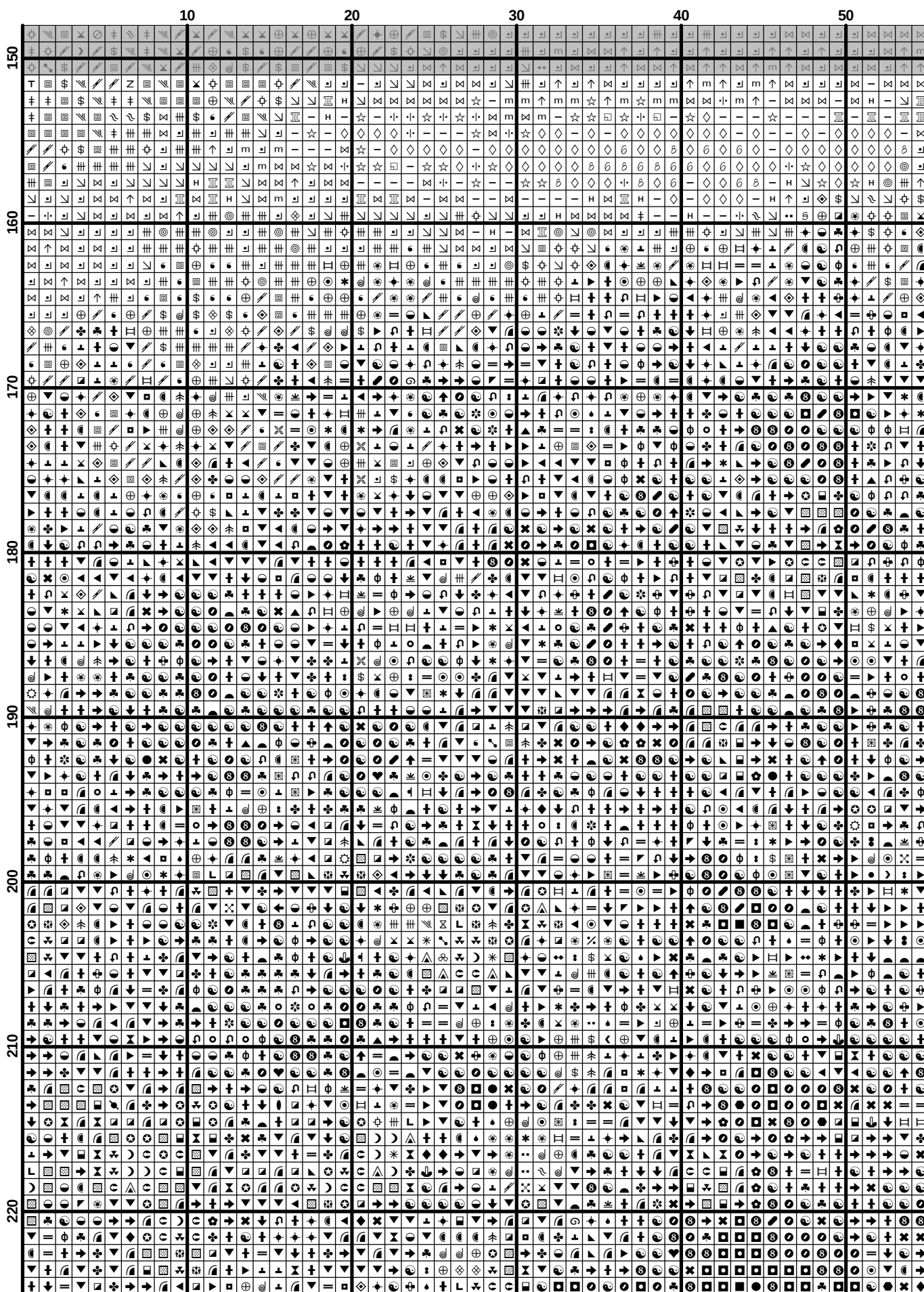
	160	170	180	190	200	210
80	...	...	...	...	...	...
90	...	...	...	...	...	...
100	...	...	...	...	...	...
110	...	...	...	...	...	...
120	...	...	...	...	...	...
130	...	...	...	...	...	...
140	...	...	...	...	...	...
150	...	...	...	...	...	...





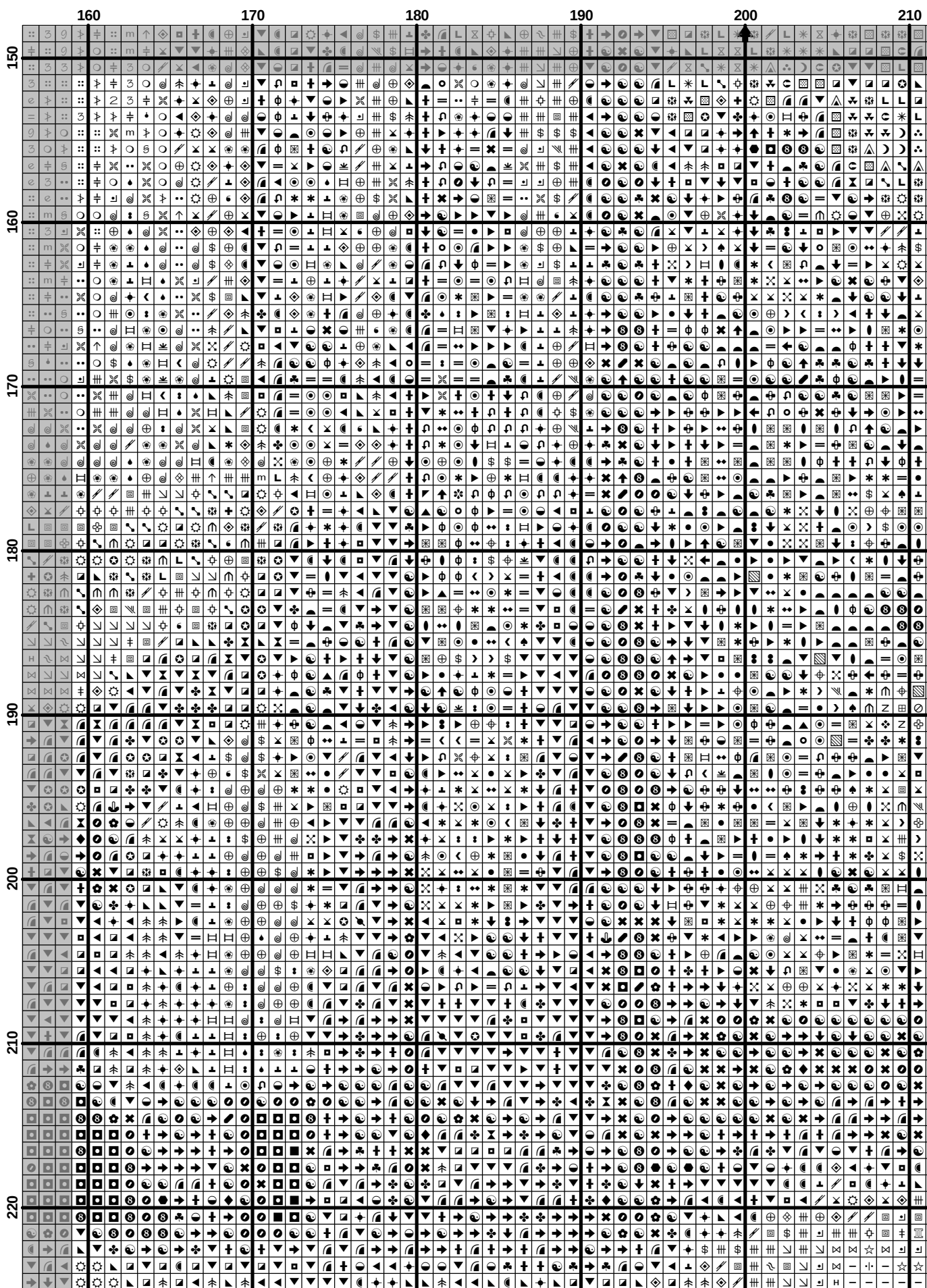
	320	330	340	350	360
80	...	...	...	...	...
90	...	...	...	...	...
100	...	...	...	...	...
110	...	...	...	...	...
120	...	...	...	...	...
130	...	...	...	...	...
140	...	...	...	...	...
150	...	...	...	...	...

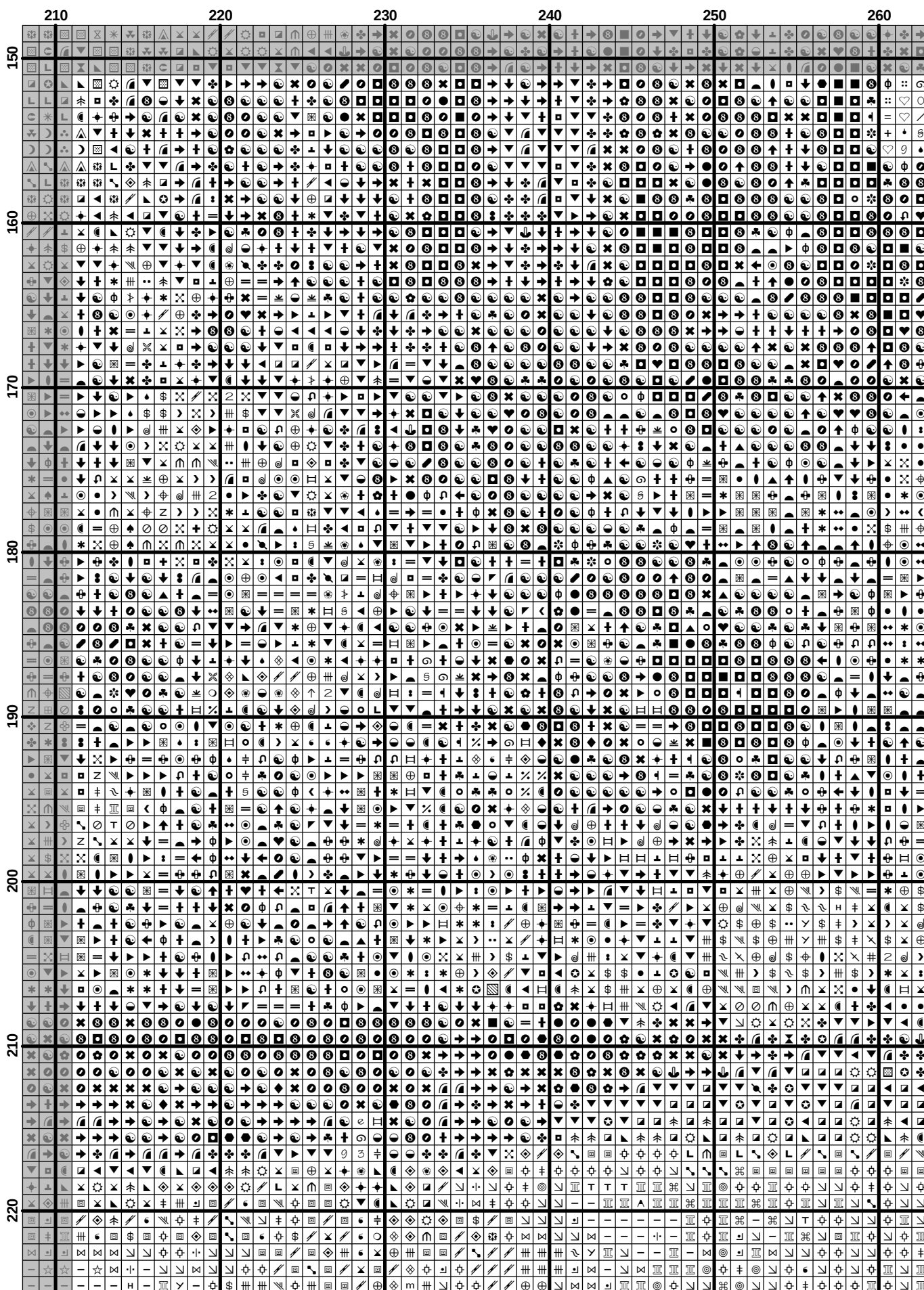




$$(26) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (27)$$

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





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

