

2017 The Spring Dance



This pattern may not be copied, sold or in any other way handled in any way that violates the international copyright laws. If you get hold of this pattern (and or this document) in any other way than via a direct download from www.goldenkite.com or via a mail from us, you should report that to us at legal_actions@goldenkite.com .

Copyright (c) 2011-, Golden Kite. All rights reserved.

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.

When you start using this product you agree that Golden Kite (Golden K), or any people working for or in association with Golden Kite (Golden K), cannot be set responsible for any physical, mental, economical or other type of damage caused by this product (including this document, pattern, threads, needles and any other parts received by you from Golden Kite (Golden K)).

This pattern may not be copied, sold or in any other way handled in any way that violates the international copyright laws. If you get hold of this pattern (and or this document) in any other way than via a direct download from www.goldenkite.com or via a mail from us, you should report that to us at legal_actions@goldenkite.com .

The Spring Dance

Stitch Count	
Horizontal:	400
Vertical:	489
































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	89	34,87	64	24,89	78	30,51	57	22,125	69	27,125
Including Margins:	89	35	105	41	80	31	94	37	73	29	85	34
	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	124	48,81	85	33,18	103	40,68	42	16,59	51	20,34
Including Margins:	118	46	140	55	101	40	119	47	58	23	67	27
	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	49	19,52	39	15,31	47	18,77	37	14,74	46	18,08
Including Margins:	56	22	65	26	55	22	63	25	53	21	62	25
	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	44	17,43	34	13,27	41	16,27	31	12,44	38	15,25
Including Margins:	52	21	60	24	50	20	57	23	47	19	54	22

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
	221	Shell Pink-VY DK
	223	Shell Pink-LT
	300	Mahogany-VY DK
	310	Black
	318	Steel Gray-LT
	326	Rose-VY DK
	355	Terra Cotta-DK
	356	Terra Cotta-MD
	407	Desert Sand-DK
	415	Pearl Gray
	420	Hazelnut Brown-DK
	434	Brown-LT
	437	Tan-LT
	452	Shell Gray-MD
	453	Shell Gray-LT
	500	Blue Green-VY DK
	522	Fern Green
	524	Fern Green-VY LT
	535	Ash Gray-VY LT
	611	Drab Brown
	632	Desert Sand-UL VY DK
	640	Beige Gray-VY DK
	642	Beige Gray-DK
	645	Beaver Gray-VY DK
	646	Beaver Gray-DK
	647	Beaver Gray-MD
	729	Old Gold-MD
	738	Tan-VY LT
	754	Peach-LT
	778	Antique Mauve-VY LT
	782	Topaz-DK
	842	Beige Brown-VY LT
	844	Beaver Brown-UL DK
	898	Coffee Brown-VY DK
	927	Gray Green-LT
	928	Gray Green-VY LT
	934	Black Avocado Green
	935	Avocado Green-DK
	936	Avocado Green-VY DK
	937	Avocado Green-MD
	938	Coffee Brown-UL DK
	950	Desert Sand-LT
	963	Dusty Rose-UL VY LT
	976	Golden Brown-MD
	977	Golden Brown-LT
	3013	Khaki Green-LT
	3021	Brown Gray-VY DK
	3022	Brown Gray-MD
	3032	Mocha Brown-MD
	3051	Green Gray-DK
	3052	Green Gray-MD
	3064	Desert Sand
	3072	Beaver Gray-VY LT

‡	3328	Salmon-DK
=	3712	Salmon-MD
●	3721	Shell Pink-DK
∴	3722	Shell Pink-MD
⊙	3726	Antique Mauve-DK
⌘	3733	Dusty Rose
✱	3772	Desert Sand-VY DK
⬤	3777	Terra Cotta-VY DK
∴	3778	Terra Cotta-LT
☆	3782	Mocha Brown-LT
✱	3787	Brown Gray-DK
:	3827	Golden Brown-Pale
↘	3828	Hazelnut Brown
☐	3829	Old Gold-VY DK
⌞	3830	Terra Cotta-MD
∇	3836	Grape-LT
⌘	3849	Teal Green-LT
☯	3857	Rosewood-DK
⌘	3861	Cocoa-LT
★	3862	Mocha Beige-DK
⊕	3863	Mocha Beige-MD
⬅	3864	Mocha Beige-LT

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
⬤	221	Shell Pink-VY DK	3857	Rosewood-DK
●	223	Shell Pink-LT	451	Shell Gray-DK
↘	223	Shell Pink-LT	3064	Desert Sand
⊕	223	Shell Pink-LT	3722	Shell Pink-MD
⬤	223	Shell Pink-LT	3861	Cocoa-LT
◇	224	Shell Pink-VY LT	452	Shell Gray-MD
○	224	Shell Pink-VY LT	453	Shell Gray-LT
○	224	Shell Pink-VY LT	738	Tan-VY LT
⊕	224	Shell Pink-VY LT	842	Beige Brown-VY LT
5	224	Shell Pink-VY LT	3864	Mocha Beige-LT
▼	300	Mahogany-VY DK	355	Terra Cotta-DK
☯	300	Mahogany-VY DK	434	Brown-LT
◆	300	Mahogany-VY DK	898	Coffee Brown-VY DK
♣	300	Mahogany-VY DK	936	Avocado Green-VY DK
†	300	Mahogany-VY DK	975	Golden Brown-DK
+	300	Mahogany-VY DK	3011	Khaki Green-DK
✕	317	Pewter Gray	502	Blue Green
☯	317	Pewter Gray	646	Beaver Gray-DK
L	317	Pewter Gray	926	Gray Green-MD
⌘	317	Pewter Gray	3809	Turquoise-VY DK
↓	319	Pistachio Green-VY DK	520	Fern Green-DK
✕	319	Pistachio Green-VY DK	3799	Pewter Gray-VY DK
■	355	Terra Cotta-DK	920	Copper-MD
☐	370	Mustard-MD	435	Brown-VY LT
—	407	Desert Sand-DK	437	Tan-LT
5	407	Desert Sand-DK	758	Terra Cotta-VY LT
::	407	Desert Sand-DK	3782	Mocha Brown-LT
III	407	Desert Sand-DK	3861	Cocoa-LT

⦿	407	Desert Sand-DK	3864	Mocha Beige-LT
≡	413	Pewter Gray-DK	645	Beaver Gray-VY DK
▀	413	Pewter Gray-DK	3346	Hunter Green
▣	414	Steel Gray-DK	646	Beaver Gray-DK
↘	414	Steel Gray-DK	647	Beaver Gray-MD
⦿	414	Steel Gray-DK	931	Antique Blue-MD
√	415	Pearl Gray	453	Shell Gray-LT
√	415	Pearl Gray	932	Antique Blue-LT
)	415	Pearl Gray	3753	Antique Blue-UL VY LT
⌘	420	Hazelnut Brown-DK	434	Brown-LT
☉	420	Hazelnut Brown-DK	3830	Terra Cotta-MD
⬢	420	Hazelnut Brown-DK	3862	Mocha Beige-DK
◀	434	Brown-LT	975	Golden Brown-DK
♦♦	434	Brown-LT	3011	Khaki Green-DK
∅	435	Brown-VY LT	3862	Mocha Beige-DK
▣	437	Tan-LT	3013	Khaki Green-LT
⦿	451	Shell Gray-DK	647	Beaver Gray-MD
⌘	451	Shell Gray-DK	3861	Cocoa-LT
⦿	452	Shell Gray-MD	453	Shell Gray-LT
⦿	452	Shell Gray-MD	778	Antique Mauve-VY LT
⦿	452	Shell Gray-MD	842	Beige Brown-VY LT
⦿	452	Shell Gray-MD	928	Gray Green-VY LT
L	453	Shell Gray-LT	648	Beaver Gray-LT
(453	Shell Gray-LT	3072	Beaver Gray-VY LT
▲	501	Blue Green-DK	924	Gray Green--VY DK
∩	502	Blue Green	522	Fern Green
γ	503	Blue Green-MD	647	Beaver Gray-MD
τ	503	Blue Green-MD	926	Gray Green-MD
⦿	503	Blue Green-MD	931	Antique Blue-MD
☉	520	Fern Green-DK	535	Ash Gray-VY LT
☉	520	Fern Green-DK	3021	Brown Gray-VY DK
⦿	522	Fern Green	646	Beaver Gray-DK
△	524	Fern Green-VY LT	613	Drab Brown-VY LT
☉	524	Fern Green-VY LT	644	Beige Gray-MD
☉	524	Fern Green-VY LT	3864	Mocha Beige-LT
▲	535	Ash Gray-VY LT	3041	Antique Violet-MD
⦿	535	Ash Gray-VY LT	3787	Brown Gray-DK
<	543	Beige Brown-UL VY LT	648	Beaver Gray-LT
^	543	Beige Brown-UL VY LT	3072	Beaver Gray-VY LT
∞	543	Beige Brown-UL VY LT	3713	Salmon-VY LT
△	597	Turquoise	932	Antique Blue-LT
▶	610	Drab Brown-DK	839	Beige Brown-DK
⦿	611	Drab Brown	3011	Khaki Green-DK
≡	612	Drab Brown-LT	640	Beige Gray-VY DK
☉	613	Drab Brown-VY LT	945	Tawny
⦿	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
⦿	640	Beige Gray-VY DK	3726	Antique Mauve-DK
//	640	Beige Gray-VY DK	3787	Brown Gray-DK
⦿	645	Beaver Gray-VY DK	646	Beaver Gray-DK
⦿	645	Beaver Gray-VY DK	3052	Green Gray-MD
▲	645	Beaver Gray-VY DK	3346	Hunter Green
☉	645	Beaver Gray-VY DK	3860	Cocoa
⦿	645	Beaver Gray-VY DK	3862	Mocha Beige-DK
	647	Beaver Gray-MD	3782	Mocha Brown-LT
4	648	Beaver Gray-LT	928	Gray Green-VY LT
1	712	Cream	963	Dusty Rose-UL VY LT
«	712	Cream	3072	Beaver Gray-VY LT
▷	738	Tan-VY LT	754	Peach-LT
9	738	Tan-VY LT	3864	Mocha Beige-LT

Copyright (c) 2011-, Golden Kite (Golden K.)

Internet: www.goldenkite.com

e-mail: info@goldenkite.com

o	758	Terra Cotta-VY LT	3864	Mocha Beige-LT
>	778	Antique Mauve-VY LT	3072	Beaver Gray-VY LT
□	778	Antique Mauve-VY LT	3713	Salmon-VY LT
⋈	778	Antique Mauve-VY LT	3836	Grape-LT
	778	Antique Mauve-VY LT	3866	Mocha Brown-UL VY LT
♣	793	Cornflower Blue-MD	931	Antique Blue-MD
■	838	Beige Brown-VY DK	3781	Mocha Brown-DK
♣	839	Beige Brown-DK	3021	Brown Gray-VY DK
▨	839	Beige Brown-DK	3781	Mocha Brown-DK
●	839	Beige Brown-DK	3802	Antique Mauve-VY DK
✖	844	Beaver Brown-UL DK	3011	Khaki Green-DK
*	844	Beaver Brown-UL DK	3346	Hunter Green
☒	844	Beaver Brown-UL DK	3362	Pine Green-DK
♠	844	Beaver Brown-UL DK	3787	Brown Gray-DK
⚙	920	Copper-MD	3830	Terra Cotta-MD
◀	926	Gray Green-MD	931	Antique Blue-MD
◁	927	Gray Green-LT	928	Gray Green-VY LT
□	927	Gray Green-LT	932	Antique Blue-LT
✱	927	Gray Green-LT	3849	Teal Green-LT
▦	931	Antique Blue-MD	932	Antique Blue-LT
◇	932	Antique Blue-LT	3849	Teal Green-LT
🌿	934	Black Avocado Green	935	Avocado Green-DK
●	934	Black Avocado Green	3031	Mocha Brown-VY DK
➔	935	Avocado Green-DK	936	Avocado Green-VY DK
↓	936	Avocado Green-VY DK	938	Coffee Brown-UL DK
✱	936	Avocado Green-VY DK	3781	Mocha Brown-DK
☉	938	Coffee Brown-UL DK	3021	Brown Gray-VY DK
◊	963	Dusty Rose-UL VY LT	3072	Beaver Gray-VY LT
↑	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
~	3072	Beaver Gray-VY LT	3713	Salmon-VY LT
▼	3346	Hunter Green	3787	Brown Gray-DK
⌘	3722	Shell Pink-MD	3828	Hazelnut Brown
📶	3726	Antique Mauve-DK	3772	Desert Sand-VY DK
▲	3726	Antique Mauve-DK	3860	Cocoa
u	3756	Baby Blue-UL VY LT	3865	Winter White
▸	3768	Gray Green-DK	3815	Celadon Green-DK
2	3782	Mocha Brown-LT	3861	Cocoa-LT
z	3862	Mocha Beige-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	
221	Shell Pink-VY DK	170	66	162	63	146	57
223	Shell Pink-LT	458	180	436	171	393	154
224	Shell Pink-VY LT	489	192	465	183	419	164
300	Mahogany-VY DK	608	239	579	227	522	205
310	Black	756	297	720	283	648	255
317	Pewter Gray	904	355	861	338	775	305
318	Steel Gray-LT	117	46	112	44	101	39
319	Pistachio Green-VY DK	219	86	209	82	188	74
326	Rose-VY DK	17	6	16	6	14	5
355	Terra Cotta-DK	339	133	323	127	291	114
356	Terra Cotta-MD	52	20	50	19	45	17
370	Mustard-MD	111	43	106	41	96	37
407	Desert Sand-DK	791	311	754	296	678	266
413	Pewter Gray-DK	584	229	556	218	501	197
414	Steel Gray-DK	455	179	433	170	390	153
415	Pearl Gray	428	168	407	160	367	144
420	Hazelnut Brown-DK	340	133	324	127	292	114
434	Brown-LT	392	154	373	146	336	132
435	Brown-VY LT	209	82	199	78	180	70
437	Tan-LT	340	133	324	127	292	114
451	Shell Gray-DK	328	129	313	123	281	110
452	Shell Gray-MD	1029	405	980	385	882	347
453	Shell Gray-LT	880	346	838	329	754	296
500	Blue Green-VY DK	952	374	907	357	816	321
501	Blue Green-DK	67	26	63	24	57	22
502	Blue Green	305	120	291	114	262	103
503	Blue Green-MD	190	74	181	71	163	64
520	Fern Green-DK	1167	459	1111	437	1000	393
522	Fern Green	242	95	230	90	207	81
524	Fern Green-VY LT	596	234	568	223	511	201
535	Ash Gray-VY LT	1147	451	1092	429	983	387
543	Beige Brown-UL VY LT	291	114	277	109	249	98
597	Turquoise	133	52	126	49	114	44
610	Drab Brown-DK	139	54	132	51	119	46
611	Drab Brown	239	94	228	89	205	80
612	Drab Brown-LT	220	86	209	82	188	74
613	Drab Brown-VY LT	172	67	163	64	147	57
632	Desert Sand-UL VY DK	241	94	229	90	206	81
640	Beige Gray-VY DK	879	346	837	329	754	296
642	Beige Gray-DK	309	121	294	115	265	104
644	Beige Gray-MD	92	36	87	34	79	31
645	Beaver Gray-VY DK	4029	1586	3837	1510	3454	1359
646	Beaver Gray-DK	2162	851	2060	811	1854	729
647	Beaver Gray-MD	845	332	805	316	725	285
648	Beaver Gray-LT	383	150	365	143	328	129
712	Cream	124	48	118	46	106	41
729	Old Gold-MD	35	13	34	13	30	11
738	Tan-VY LT	528	207	503	198	453	178
754	Peach-LT	40	15	38	14	35	13
758	Terra Cotta-VY LT	100	39	95	37	86	33
778	Antique Mauve-VY LT	473	186	450	177	405	159
782	Topaz-DK	8	3	7	2	7	2
793	Cornflower Blue-MD	46	18	44	17	40	15

838	Beige Brown-VY DK	115	45	109	42	99	38
839	Beige Brown-DK	536	211	511	201	460	181
842	Beige Brown-VY LT	504	198	480	188	432	170
844	Beaver Brown-UL DK	2080	818	1981	779	1783	701
898	Coffee Brown-VY DK	175	68	167	65	150	59
920	Copper-MD	77	30	73	28	66	25
924	Gray Green--VY DK	67	26	63	24	57	22
926	Gray Green-MD	230	90	219	86	198	77
927	Gray Green-LT	470	185	447	175	403	158
928	Gray Green-VY LT	545	214	519	204	467	183
931	Antique Blue-MD	422	166	402	158	361	142
932	Antique Blue-LT	765	301	729	287	656	258
934	Black Avocado Green	2622	1032	2497	983	2247	884
935	Avocado Green-DK	1367	538	1302	512	1172	461
936	Avocado Green-VY DK	632	248	602	237	541	212
937	Avocado Green-MD	79	31	75	29	68	26
938	Coffee Brown-UL DK	657	258	626	246	563	221
945	Tawny	27	10	26	10	23	9
950	Desert Sand-LT	174	68	166	65	149	58
963	Dusty Rose-UL VY LT	196	77	187	73	168	66
975	Golden Brown-DK	96	37	91	35	82	32
976	Golden Brown-MD	18	7	17	6	16	6
977	Golden Brown-LT	13	5	12	4	11	4
3011	Khaki Green-DK	790	311	752	296	677	266
3013	Khaki Green-LT	394	155	375	147	338	133
3021	Brown Gray-VY DK	2304	907	2194	863	1975	777
3022	Brown Gray-MD	176	69	168	66	151	59
3031	Mocha Brown-VY DK	542	213	516	203	464	182
3032	Mocha Brown-MD	347	136	330	129	297	116
3041	Antique Violet-MD	41	16	39	15	35	13
3051	Green Gray-DK	459	180	437	172	393	154
3052	Green Gray-MD	580	228	552	217	497	195
3064	Desert Sand	405	159	386	151	347	136
3072	Beaver Gray-VY LT	574	225	546	214	492	193
3328	Salmon-DK	13	5	13	5	11	4
3346	Hunter Green	736	289	701	275	631	248
3362	Pine Green-DK	398	156	379	149	341	134
3712	Salmon-MD	13	5	13	5	11	4
3713	Salmon-VY LT	394	155	376	148	338	133
3721	Shell Pink-DK	151	59	144	56	129	50
3722	Shell Pink-MD	224	88	213	83	192	75
3726	Antique Mauve-DK	220	86	209	82	188	74
3733	Dusty Rose	28	11	27	10	24	9
3753	Antique Blue-UL VY LT	31	12	30	11	27	10
3756	Baby Blue-UL VY LT	15	5	14	5	13	5
3768	Gray Green-DK	89	35	85	33	77	30
3772	Desert Sand-VY DK	242	95	230	90	207	81
3777	Terra Cotta-VY DK	94	37	89	35	81	31
3778	Terra Cotta-LT	36	14	35	13	31	12
3781	Mocha Brown-DK	424	166	404	159	364	143
3782	Mocha Brown-LT	719	283	685	269	617	242
3787	Brown Gray-DK	1945	765	1852	729	1667	656
3799	Pewter Gray-VY DK	466	183	444	174	400	157
3802	Antique Mauve-VY DK	64	25	61	24	55	21
3809	Turquoise-VY DK	37	14	36	14	32	12
3815	Celadon Green-DK	89	35	85	33	77	30
3827	Golden Brown-Pale	10	3	10	3	9	3
3828	Hazelnut Brown	469	184	447	175	402	158
3829	Old Gold-VY DK	30	11	29	11	26	10

Copyright (c) 2011-, Golden Kite (Golden K.)

Internet: www.goldenkite.com

e-mail: info@goldenkite.com

3830	Terra Cotta-MD	168	66	160	62	144	56
3836	Grape-LT	44	17	42	16	38	14
3849	Teal Green-LT	386	151	368	144	331	130
3857	Rosewood-DK	221	87	211	83	190	74
3860	Cocoa	113	44	107	42	97	38
3861	Cocoa-LT	749	294	714	281	642	252
3862	Mocha Beige-DK	575	226	547	215	493	194
3863	Mocha Beige-MD	373	146	355	139	320	125
3864	Mocha Beige-LT	772	303	735	289	662	260
3865	Winter White	15	5	14	5	13	5
3866	Mocha Brown-UL VY LT	263	103	250	98	225	88

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
221	Shell Pink-VY DK	263	103	219	86	110	43
223	Shell Pink-LT	707	277	590	231	295	116
224	Shell Pink-VY LT	754	295	629	246	314	123
300	Mahogany-VY DK	940	369	783	308	392	154
310	Black	1166	459	972	383	486	191
317	Pewter Gray	1395	549	1163	458	581	229
318	Steel Gray-LT	182	70	152	59	76	29
319	Pistachio Green-VY DK	338	133	282	111	141	56
326	Rose-VY DK	25	9	21	8	11	4
355	Terra Cotta-DK	524	205	437	171	218	86
356	Terra Cotta-MD	81	31	68	26	34	13
370	Mustard-MD	173	67	144	56	72	28
407	Desert Sand-DK	1220	479	1017	399	509	200
413	Pewter Gray-DK	902	355	752	296	376	148
414	Steel Gray-DK	702	275	585	230	293	115
415	Pearl Gray	661	259	551	216	275	108
420	Hazelnut Brown-DK	526	205	438	171	219	86
434	Brown-LT	605	238	504	198	252	99
435	Brown-VY LT	324	126	270	105	135	53
437	Tan-LT	526	205	438	171	219	86
451	Shell Gray-DK	506	198	422	165	211	83
452	Shell Gray-MD	1588	625	1323	521	662	260
453	Shell Gray-LT	1357	533	1131	444	566	222
500	Blue Green-VY DK	1469	578	1224	482	612	241
501	Blue Green-DK	103	40	86	33	43	17
502	Blue Green	472	185	393	155	197	77
503	Blue Green-MD	293	115	245	96	122	48
520	Fern Green-DK	1800	707	1500	590	750	295
522	Fern Green	373	146	311	122	155	61
524	Fern Green-VY LT	920	362	767	302	383	151
535	Ash Gray-VY LT	1769	697	1475	581	737	290
543	Beige Brown-UL VY LT	448	176	374	147	187	74
597	Turquoise	205	79	171	66	86	33
610	Drab Brown-DK	214	83	179	69	89	35
611	Drab Brown	369	144	308	120	154	60
612	Drab Brown-LT	338	133	282	111	141	56
613	Drab Brown-VY LT	265	103	221	86	110	43
632	Desert Sand-UL VY DK	371	146	309	122	155	61
640	Beige Gray-VY DK	1357	533	1131	444	566	222
642	Beige Gray-DK	477	187	398	156	199	78
644	Beige Gray-MD	142	56	119	47	59	23

645	Beaver Gray-VY DK	6217	2446	5181	2039	2591	1019
646	Beaver Gray-DK	3337	1312	2781	1094	1391	547
647	Beaver Gray-MD	1305	513	1088	428	544	214
648	Beaver Gray-LT	590	232	492	194	246	97
712	Cream	191	74	159	62	80	31
729	Old Gold-MD	54	20	45	17	23	8
738	Tan-VY LT	815	320	680	267	340	134
754	Peach-LT	63	23	53	20	26	10
758	Terra Cotta-VY LT	155	59	129	50	65	25
778	Antique Mauve-VY LT	729	286	608	239	304	119
782	Topaz-DK	13	4	11	3	5	2
793	Cornflower Blue-MD	72	27	60	23	30	11
838	Beige Brown-VY DK	178	68	149	57	74	29
839	Beige Brown-DK	828	326	690	272	345	136
842	Beige Brown-VY LT	778	306	648	255	324	128
844	Beaver Brown-UL DK	3209	1262	2675	1052	1337	526
898	Coffee Brown-VY DK	270	106	225	89	113	44
920	Copper-MD	119	45	99	38	50	19
924	Gray Green--VY DK	103	40	86	33	43	17
926	Gray Green-MD	356	139	297	116	149	58
927	Gray Green-LT	725	284	605	237	302	119
928	Gray Green-VY LT	841	329	701	275	350	137
931	Antique Blue-MD	650	256	542	213	271	107
932	Antique Blue-LT	1181	464	984	387	492	194
934	Black Avocado Green	4045	1591	3371	1326	1685	663
935	Avocado Green-DK	2110	830	1758	692	879	346
936	Avocado Green-VY DK	974	382	812	318	406	159
937	Avocado Green-MD	122	47	102	39	51	20
938	Coffee Brown-UL DK	1013	398	845	332	422	166
945	Tawny	41	16	35	14	17	7
950	Desert Sand-LT	268	104	224	87	112	44
963	Dusty Rose-UL VY LT	302	119	252	99	126	50
975	Golden Brown-DK	148	58	123	48	62	24
976	Golden Brown-MD	29	11	24	9	12	5
977	Golden Brown-LT	20	7	17	6	8	3
3011	Khaki Green-DK	1219	479	1016	399	508	200
3013	Khaki Green-LT	608	239	507	200	254	100
3021	Brown Gray-VY DK	3555	1399	2963	1166	1481	583
3022	Brown Gray-MD	272	106	227	89	113	44
3031	Mocha Brown-VY DK	835	328	696	273	348	137
3032	Mocha Brown-MD	535	209	446	174	223	87
3041	Antique Violet-MD	63	23	53	20	26	10
3051	Green Gray-DK	707	277	590	231	295	116
3052	Green Gray-MD	895	351	746	293	373	146
3064	Desert Sand	625	245	521	204	260	102
3072	Beaver Gray-VY LT	886	347	738	290	369	145
3328	Salmon-DK	20	7	17	6	8	3
3346	Hunter Green	1136	446	947	372	473	186
3362	Pine Green-DK	614	241	512	201	256	101
3712	Salmon-MD	20	7	17	6	8	3
3713	Salmon-VY LT	608	239	507	200	254	100
3721	Shell Pink-DK	232	90	194	75	97	38
3722	Shell Pink-MD	346	135	288	113	144	56
3726	Antique Mauve-DK	338	133	282	111	141	56
3733	Dusty Rose	43	16	36	14	18	7
3753	Antique Blue-UL VY LT	49	18	41	15	20	8
3756	Baby Blue-UL VY LT	23	9	20	8	10	4
3768	Gray Green-DK	139	54	116	45	58	23
3772	Desert Sand-VY DK	373	146	311	122	155	61

Copyright (c) 2011-, Golden Kite (Golden K.)

Internet: www.goldenkite.com

e-mail: info@goldenkite.com

3777	Terra Cotta-VY DK	146	56	122	47	61	23
3778	Terra Cotta-LT	56	22	47	18	23	9
3781	Mocha Brown-DK	655	257	546	215	273	107
3782	Mocha Brown-LT	1111	436	926	363	463	182
3787	Brown Gray-DK	3001	1181	2501	984	1250	492
3799	Pewter Gray-VY DK	720	283	600	236	300	118
3802	Antique Mauve-VY DK	99	38	83	32	41	16
3809	Turquoise-VY DK	58	22	48	18	24	9
3815	Celadon Green-DK	139	54	116	45	58	23
3827	Golden Brown-Pale	16	5	14	5	7	2
3828	Hazelnut Brown	724	284	603	237	302	119
3829	Old Gold-VY DK	47	18	39	15	20	8
3830	Terra Cotta-MD	259	101	216	84	108	42
3836	Grape-LT	68	25	57	21	29	11
3849	Teal Green-LT	596	234	497	195	248	98
3857	Rosewood-DK	342	133	285	111	143	56
3860	Cocoa	175	68	146	57	73	29
3861	Cocoa-LT	1156	454	963	378	482	189
3862	Mocha Beige-DK	887	349	740	291	370	146
3863	Mocha Beige-MD	576	225	480	188	240	94
3864	Mocha Beige-LT	1192	468	993	390	497	195
3865	Winter White	23	9	20	8	10	4
3866	Mocha Brown-UL VY LT	405	158	338	132	169	66

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	105	41	101	39	97	38
223	Shell Pink-LT	283	111	272	107	262	103
224	Shell Pink-VY LT	302	118	290	114	279	109
300	Mahogany-VY DK	376	148	361	142	348	137
310	Black	467	184	449	177	432	170
317	Pewter Gray	558	220	537	211	517	203
318	Steel Gray-LT	73	28	70	27	67	26
319	Pistachio Green-VY DK	135	53	130	51	125	49
326	Rose-VY DK	10	4	10	3	9	3
355	Terra Cotta-DK	210	82	201	79	194	76
356	Terra Cotta-MD	32	12	31	12	30	11
370	Mustard-MD	69	27	66	26	64	25
407	Desert Sand-DK	488	192	469	184	452	177
413	Pewter Gray-DK	361	142	347	136	334	131
414	Steel Gray-DK	281	110	270	106	260	102
415	Pearl Gray	264	104	254	100	245	96
420	Hazelnut Brown-DK	210	82	202	79	195	76
434	Brown-LT	242	95	233	91	224	88
435	Brown-VY LT	130	50	125	48	120	47
437	Tan-LT	210	82	202	79	195	76
451	Shell Gray-DK	202	79	195	76	187	73
452	Shell Gray-MD	635	250	611	240	588	231
453	Shell Gray-LT	543	213	522	205	503	197
500	Blue Green-VY DK	588	231	565	222	544	214
501	Blue Green-DK	41	16	39	15	38	15
502	Blue Green	189	74	181	71	175	69
503	Blue Green-MD	117	46	113	44	109	43
520	Fern Green-DK	720	283	692	272	667	262
522	Fern Green	149	58	143	56	138	54

524	Fern Green-VY LT	368	145	354	139	341	134
535	Ash Gray-VY LT	708	279	681	268	655	258
543	Beige Brown-UL VY LT	179	71	172	68	166	65
597	Turquoise	82	32	79	30	76	29
610	Drab Brown-DK	86	33	82	32	79	31
611	Drab Brown	148	58	142	55	137	53
612	Drab Brown-LT	135	53	130	51	125	49
613	Drab Brown-VY LT	106	41	102	39	98	38
632	Desert Sand-UL VY DK	148	58	143	56	137	54
640	Beige Gray-VY DK	543	213	522	205	503	197
642	Beige Gray-DK	191	75	183	72	177	69
644	Beige Gray-MD	57	22	55	21	53	21
645	Beaver Gray-VY DK	2487	978	2391	941	2303	906
646	Beaver Gray-DK	1335	525	1284	505	1236	486
647	Beaver Gray-MD	522	205	502	197	483	190
648	Beaver Gray-LT	236	93	227	89	219	86
712	Cream	76	30	73	28	71	27
729	Old Gold-MD	22	8	21	8	20	7
738	Tan-VY LT	326	128	314	123	302	119
754	Peach-LT	25	9	24	9	23	9
758	Terra Cotta-VY LT	62	24	60	23	57	22
778	Antique Mauve-VY LT	292	114	280	110	270	106
782	Topaz-DK	5	1	5	1	5	1
793	Cornflower Blue-MD	29	11	28	10	27	10
838	Beige Brown-VY DK	71	27	69	26	66	25
839	Beige Brown-DK	331	130	318	125	307	121
842	Beige Brown-VY LT	311	122	299	118	288	113
844	Beaver Brown-UL DK	1284	505	1234	485	1189	467
898	Coffee Brown-VY DK	108	42	104	41	100	39
920	Copper-MD	48	18	46	17	44	17
924	Gray Green--VY DK	41	16	39	15	38	15
926	Gray Green-MD	143	55	137	53	132	51
927	Gray Green-LT	290	114	279	109	269	105
928	Gray Green-VY LT	336	132	323	127	311	122
931	Antique Blue-MD	260	102	250	98	241	95
932	Antique Blue-LT	472	186	454	179	437	172
934	Black Avocado Green	1618	636	1556	612	1498	589
935	Avocado Green-DK	844	332	811	319	781	307
936	Avocado Green-VY DK	390	153	375	147	361	141
937	Avocado Green-MD	49	19	47	18	45	17
938	Coffee Brown-UL DK	405	159	390	153	375	147
945	Tawny	17	6	16	6	15	6
950	Desert Sand-LT	107	42	103	40	99	39
963	Dusty Rose-UL VY LT	121	48	116	46	112	44
975	Golden Brown-DK	59	23	57	22	55	21
976	Golden Brown-MD	12	4	11	4	11	4
977	Golden Brown-LT	8	3	8	3	7	3
3011	Khaki Green-DK	487	192	469	184	451	177
3013	Khaki Green-LT	243	96	234	92	225	89
3021	Brown Gray-VY DK	1422	559	1367	538	1317	518
3022	Brown Gray-MD	109	42	105	41	101	39
3031	Mocha Brown-VY DK	334	131	321	126	309	121
3032	Mocha Brown-MD	214	84	206	80	198	77
3041	Antique Violet-MD	25	9	24	9	23	9
3051	Green Gray-DK	283	111	272	107	262	103
3052	Green Gray-MD	358	140	344	135	331	130
3064	Desert Sand	250	98	240	94	231	91
3072	Beaver Gray-VY LT	354	139	341	134	328	129
3328	Salmon-DK	8	3	8	3	7	3

Copyright (c) 2011-, Golden Kite (Golden K.)

Internet: www.goldenkite.com

e-mail: info@goldenkite.com

3346	Hunter Green	454	179	437	172	421	165
3362	Pine Green-DK	246	96	236	93	227	89
3712	Salmon-MD	8	3	8	3	7	3
3713	Salmon-VY LT	243	96	234	92	225	89
3721	Shell Pink-DK	93	36	89	35	86	33
3722	Shell Pink-MD	138	54	133	52	128	50
3726	Antique Mauve-DK	135	53	130	51	125	49
3733	Dusty Rose	17	6	17	6	16	6
3753	Antique Blue-UL VY LT	19	7	19	7	18	7
3756	Baby Blue-UL VY LT	9	4	9	3	9	3
3768	Gray Green-DK	55	22	53	21	51	20
3772	Desert Sand-VY DK	149	58	143	56	138	54
3777	Terra Cotta-VY DK	58	22	56	21	54	21
3778	Terra Cotta-LT	22	9	21	8	21	8
3781	Mocha Brown-DK	262	103	252	99	243	95
3782	Mocha Brown-LT	444	174	427	168	411	161
3787	Brown Gray-DK	1200	472	1154	454	1111	437
3799	Pewter Gray-VY DK	288	113	277	109	267	105
3802	Antique Mauve-VY DK	40	15	38	15	37	14
3809	Turquoise-VY DK	23	9	22	8	21	8
3815	Celadon Green-DK	55	22	53	21	51	20
3827	Golden Brown-Pale	6	2	6	2	6	2
3828	Hazelnut Brown	289	114	278	109	268	105
3829	Old Gold-VY DK	19	7	18	7	17	7
3830	Terra Cotta-MD	104	40	100	39	96	37
3836	Grape-LT	27	10	26	10	25	9
3849	Teal Green-LT	238	94	229	90	221	87
3857	Rosewood-DK	137	53	132	51	127	49
3860	Cocoa	70	27	67	26	65	25
3861	Cocoa-LT	462	181	444	174	428	168
3862	Mocha Beige-DK	355	140	341	134	329	129
3863	Mocha Beige-MD	230	90	222	87	213	83
3864	Mocha Beige-LT	477	187	458	180	441	173
3865	Winter White	9	4	9	3	9	3
3866	Mocha Brown-UL VY LT	162	63	156	61	150	59

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	94	37	88	34	82	32
223	Shell Pink-LT	253	99	236	92	221	87
224	Shell Pink-VY LT	269	105	251	98	236	92
300	Mahogany-VY DK	336	132	313	123	294	115
310	Black	417	164	389	153	365	143
317	Pewter Gray	498	196	465	183	436	172
318	Steel Gray-LT	65	25	61	23	57	22
319	Pistachio Green-VY DK	121	48	113	44	106	42
326	Rose-VY DK	9	3	8	3	8	3
355	Terra Cotta-DK	187	73	175	68	164	64
356	Terra Cotta-MD	29	11	27	10	25	10
370	Mustard-MD	62	24	58	22	54	21
407	Desert Sand-DK	436	171	407	160	381	150
413	Pewter Gray-DK	322	127	301	118	282	111
414	Steel Gray-DK	251	98	234	92	219	86
415	Pearl Gray	236	93	220	86	206	81
420	Hazelnut Brown-DK	188	73	175	68	164	64

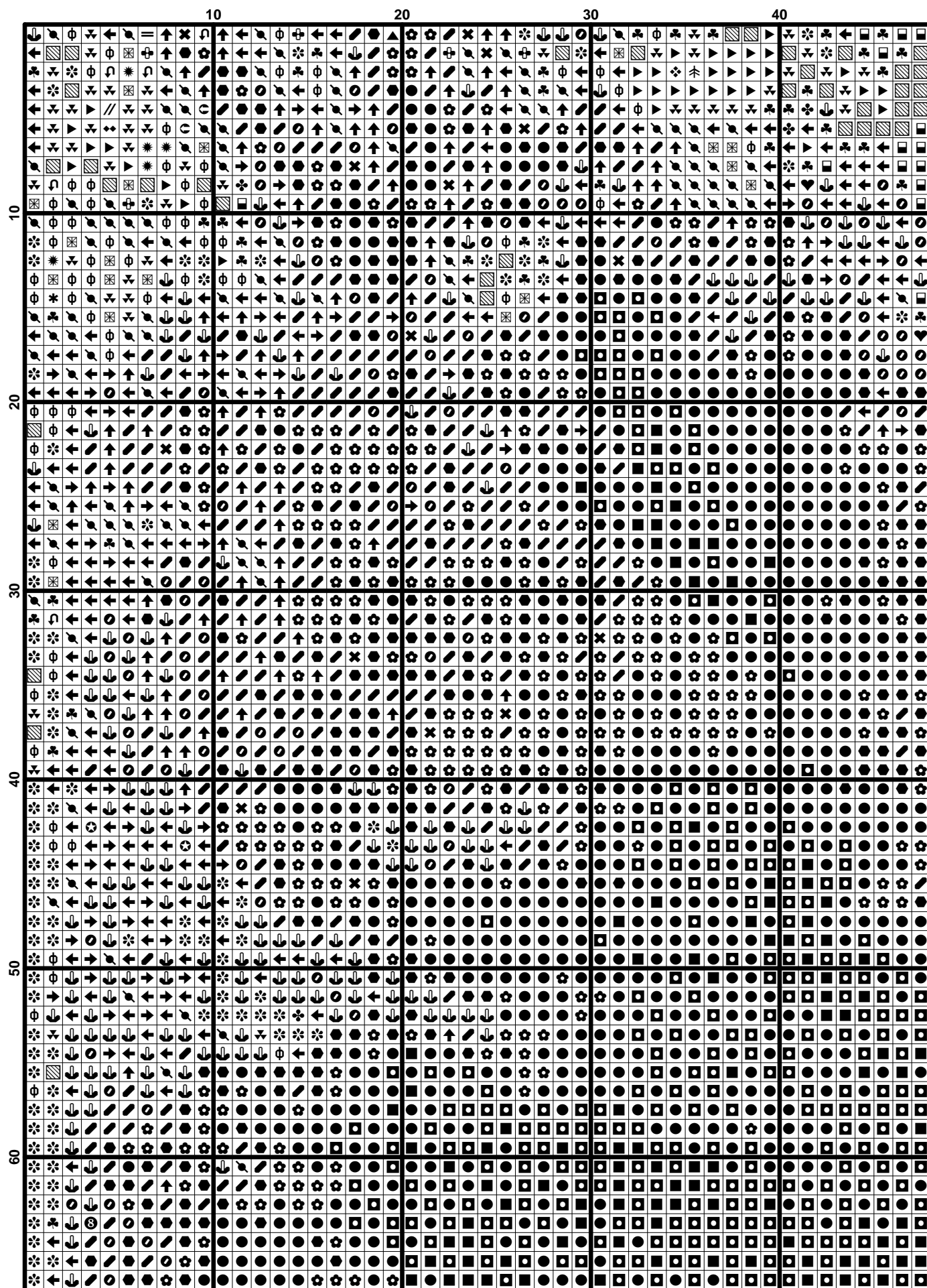
434	Brown-LT	216	85	202	79	189	74
435	Brown-VY LT	116	45	108	42	101	39
437	Tan-LT	188	73	175	68	164	64
451	Shell Gray-DK	181	71	169	66	158	62
452	Shell Gray-MD	567	223	529	208	496	195
453	Shell Gray-LT	485	190	452	178	424	167
500	Blue Green-VY DK	525	206	490	193	459	181
501	Blue Green-DK	37	14	34	13	32	12
502	Blue Green	168	66	157	62	147	58
503	Blue Green-MD	105	41	98	38	92	36
520	Fern Green-DK	643	253	600	236	563	221
522	Fern Green	133	52	124	49	116	46
524	Fern Green-VY LT	329	129	307	121	287	113
535	Ash Gray-VY LT	632	249	590	232	553	218
543	Beige Brown-UL VY LT	160	63	149	59	140	55
597	Turquoise	73	28	68	26	64	25
610	Drab Brown-DK	77	30	71	28	67	26
611	Drab Brown	132	51	123	48	115	45
612	Drab Brown-LT	121	48	113	44	106	42
613	Drab Brown-VY LT	95	37	88	34	83	32
632	Desert Sand-UL VY DK	132	52	124	49	116	46
640	Beige Gray-VY DK	485	190	452	178	424	167
642	Beige Gray-DK	170	67	159	62	149	59
644	Beige Gray-MD	51	20	47	19	44	17
645	Beaver Gray-VY DK	2220	874	2072	815	1943	764
646	Beaver Gray-DK	1192	469	1112	437	1043	410
647	Beaver Gray-MD	466	183	435	171	408	160
648	Beaver Gray-LT	211	83	197	77	185	73
712	Cream	68	26	64	25	60	23
729	Old Gold-MD	19	7	18	7	17	6
738	Tan-VY LT	291	114	272	107	255	100
754	Peach-LT	23	8	21	8	20	7
758	Terra Cotta-VY LT	55	21	52	20	48	19
778	Antique Mauve-VY LT	260	102	243	95	228	89
782	Topaz-DK	5	1	4	1	4	1
793	Cornflower Blue-MD	26	10	24	9	23	8
838	Beige Brown-VY DK	64	24	59	23	56	21
839	Beige Brown-DK	296	116	276	109	259	102
842	Beige Brown-VY LT	278	109	259	102	243	96
844	Beaver Brown-UL DK	1146	451	1070	421	1003	394
898	Coffee Brown-VY DK	96	38	90	35	84	33
920	Copper-MD	42	16	40	15	37	14
924	Gray Green--VY DK	37	14	34	13	32	12
926	Gray Green-MD	127	50	119	46	111	43
927	Gray Green-LT	259	102	242	95	227	89
928	Gray Green-VY LT	300	118	280	110	263	103
931	Antique Blue-MD	232	91	217	85	203	80
932	Antique Blue-LT	422	166	394	155	369	145
934	Black Avocado Green	1445	568	1348	530	1264	497
935	Avocado Green-DK	753	296	703	277	659	259
936	Avocado Green-VY DK	348	136	325	127	304	119
937	Avocado Green-MD	44	17	41	16	38	15
938	Coffee Brown-UL DK	362	142	338	133	317	124
945	Tawny	15	6	14	5	13	5
950	Desert Sand-LT	96	37	89	35	84	33
963	Dusty Rose-UL VY LT	108	42	101	40	95	37
975	Golden Brown-DK	53	21	49	19	46	18
976	Golden Brown-MD	10	4	10	4	9	3
977	Golden Brown-LT	7	3	7	2	6	2

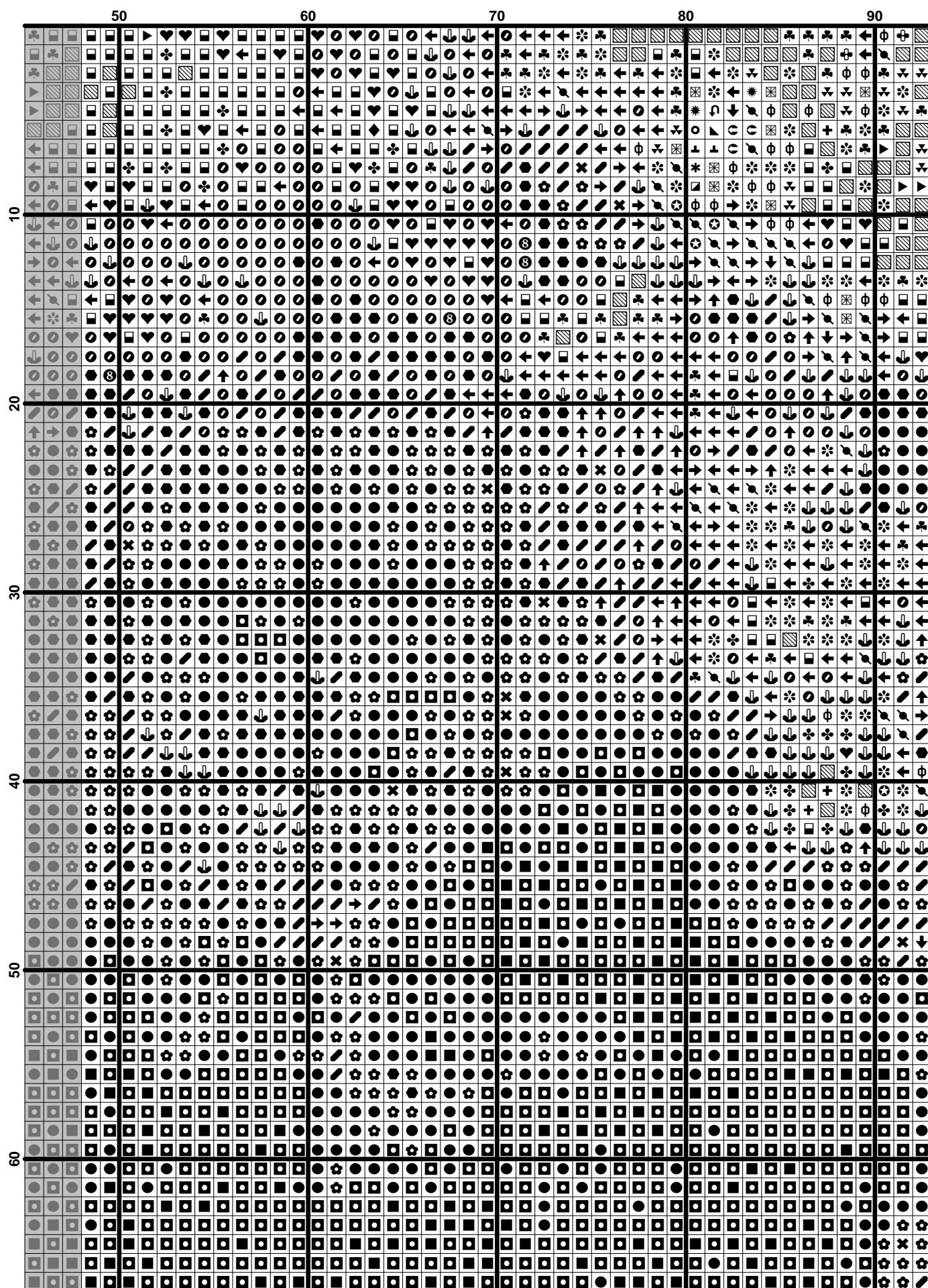
Copyright (c) 2011-, Golden Kite (Golden K.)

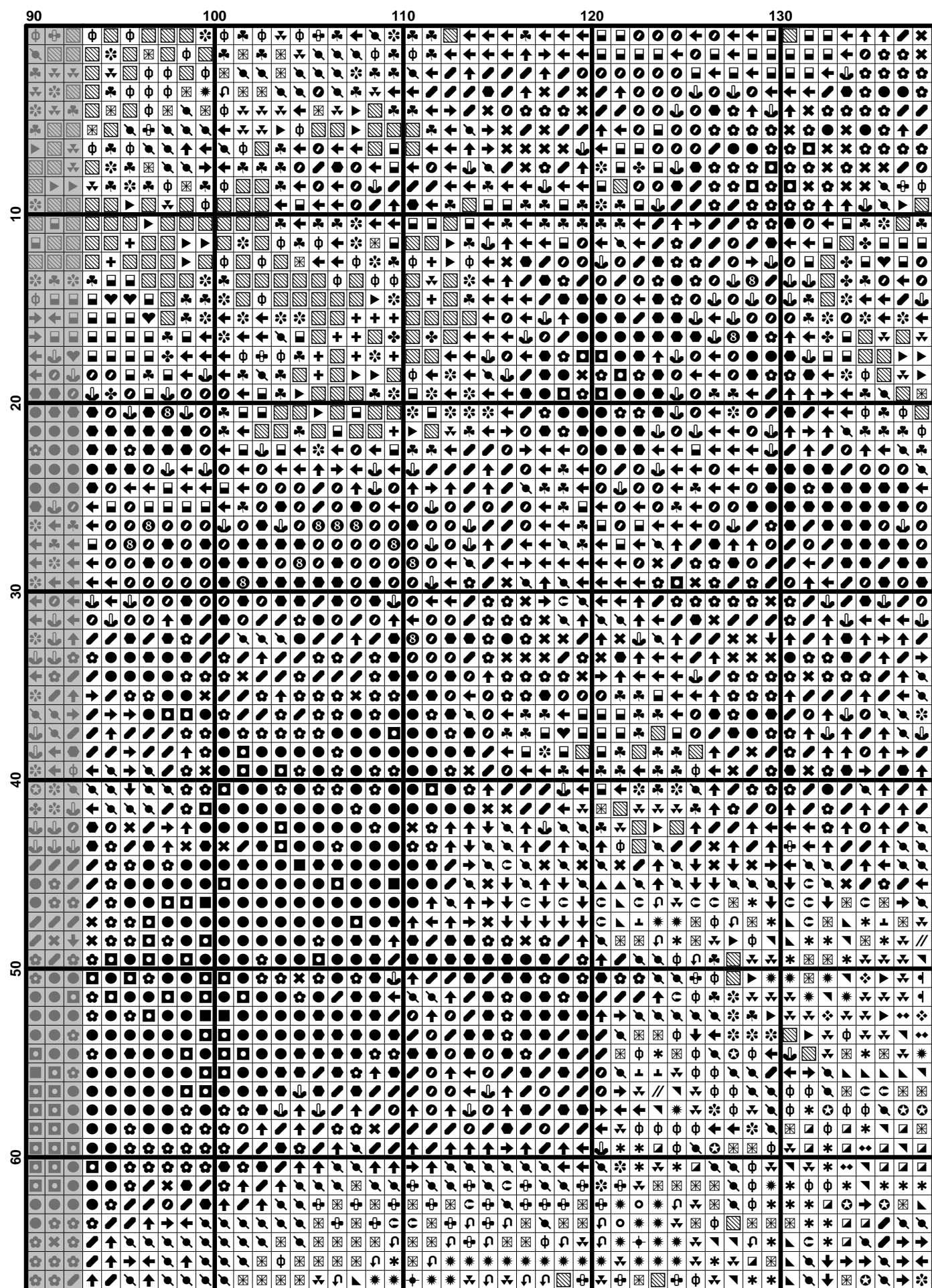
Internet: www.goldenkite.com

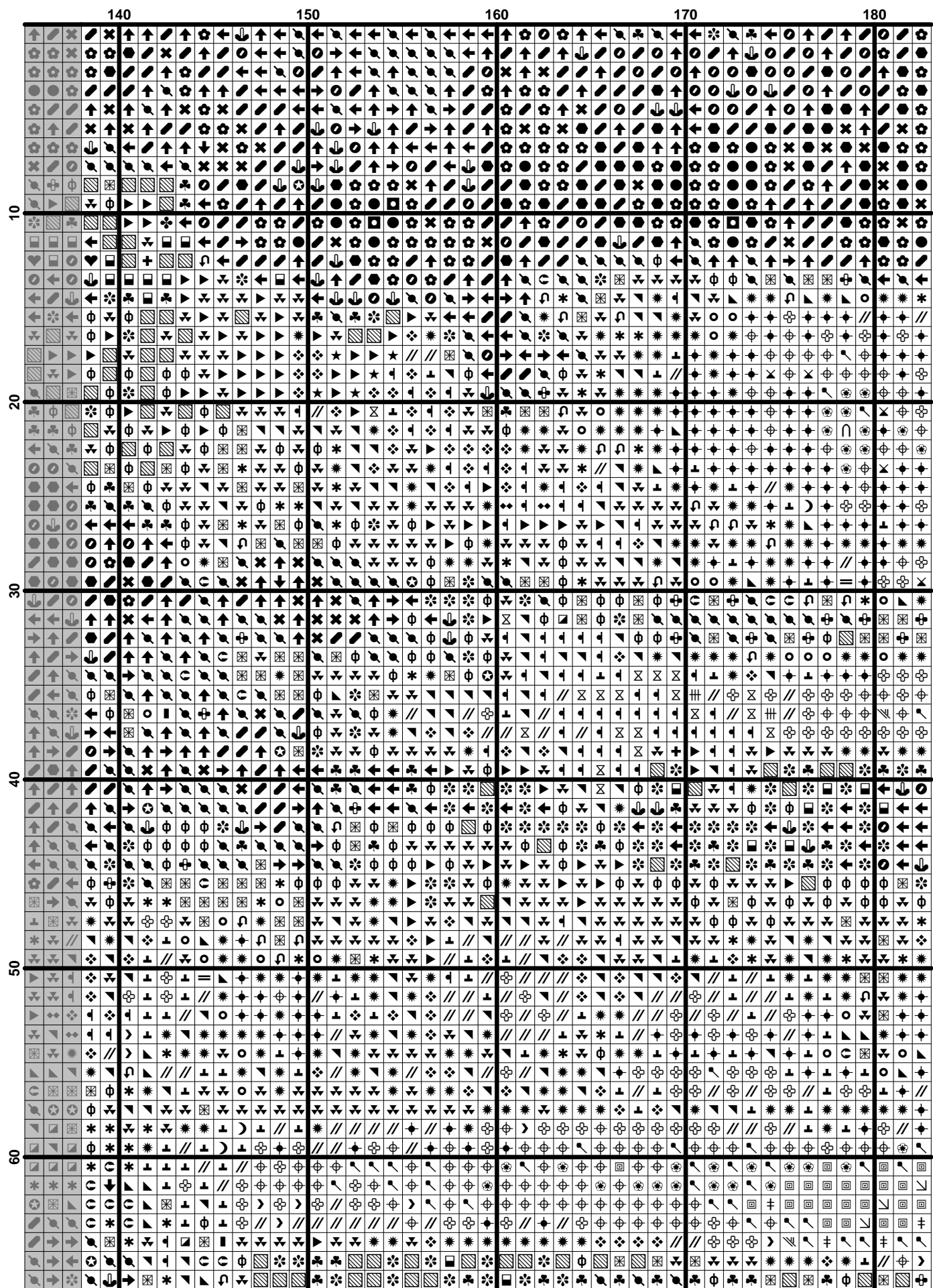
e-mail: info@goldenkite.com

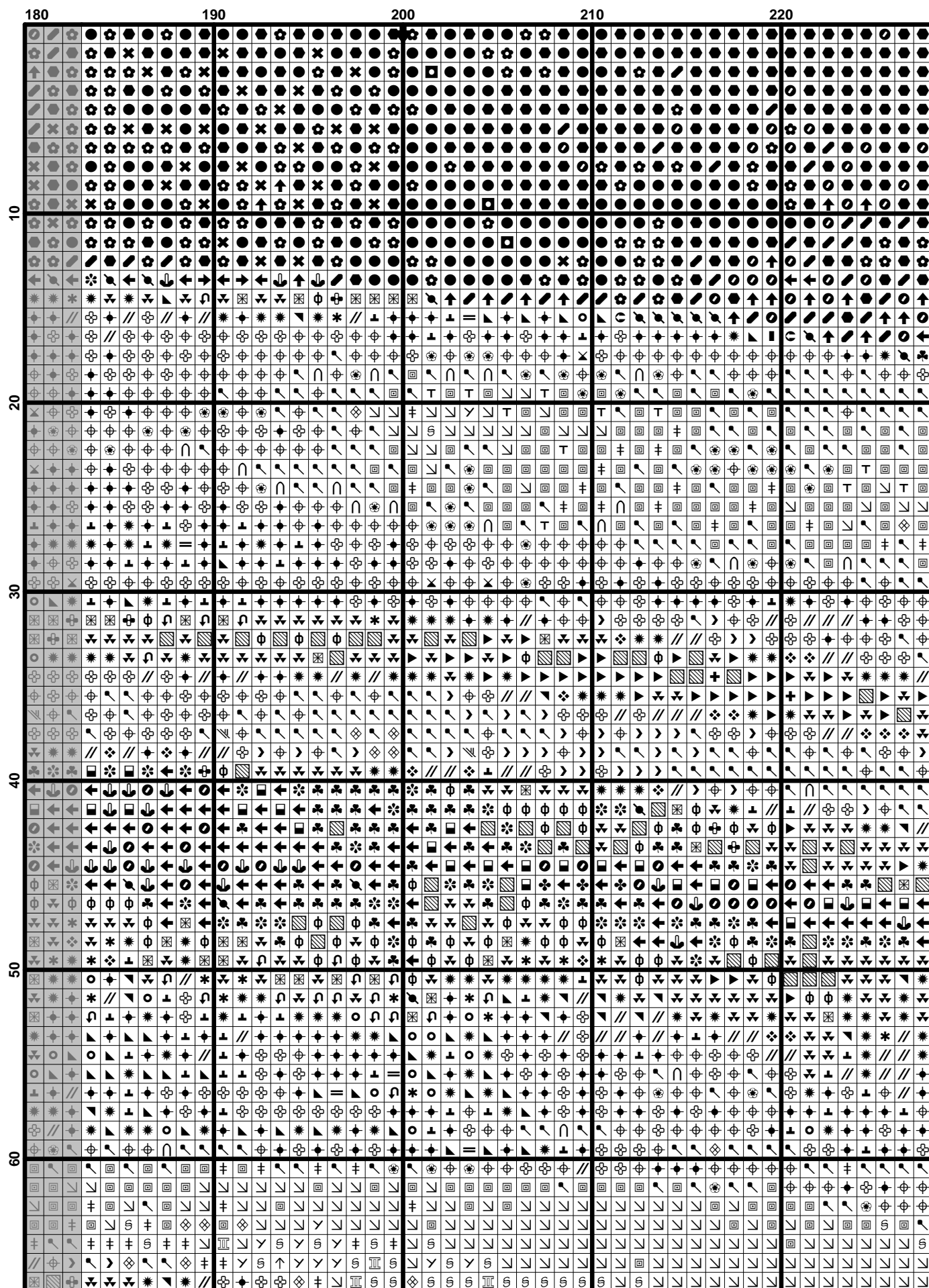
3011	Khaki Green-DK	435	171	406	160	381	150
3013	Khaki Green-LT	217	86	203	80	190	75
3021	Brown Gray-VY DK	1270	500	1185	466	1111	437
3022	Brown Gray-MD	97	38	91	35	85	33
3031	Mocha Brown-VY DK	298	117	278	109	261	102
3032	Mocha Brown-MD	191	75	178	70	167	65
3041	Antique Violet-MD	23	8	21	8	20	7
3051	Green Gray-DK	253	99	236	92	221	87
3052	Green Gray-MD	320	125	298	117	280	110
3064	Desert Sand	223	87	208	82	195	77
3072	Beaver Gray-VY LT	316	124	295	116	277	109
3328	Salmon-DK	7	3	7	2	6	2
3346	Hunter Green	406	159	379	149	355	140
3362	Pine Green-DK	219	86	205	80	192	75
3712	Salmon-MD	7	3	7	2	6	2
3713	Salmon-VY LT	217	86	203	80	190	75
3721	Shell Pink-DK	83	32	77	30	73	28
3722	Shell Pink-MD	123	48	115	45	108	42
3726	Antique Mauve-DK	121	48	113	44	106	42
3733	Dusty Rose	15	6	14	5	14	5
3753	Antique Blue-UL VY LT	17	6	16	6	15	6
3756	Baby Blue-UL VY LT	8	3	8	3	7	3
3768	Gray Green-DK	50	19	46	18	43	17
3772	Desert Sand-VY DK	133	52	124	49	116	46
3777	Terra Cotta-VY DK	52	20	49	19	46	17
3778	Terra Cotta-LT	20	8	19	7	17	7
3781	Mocha Brown-DK	234	92	218	86	205	80
3782	Mocha Brown-LT	397	156	370	145	347	136
3787	Brown Gray-DK	1072	422	1000	394	938	369
3799	Pewter Gray-VY DK	257	101	240	94	225	88
3802	Antique Mauve-VY DK	35	14	33	13	31	12
3809	Turquoise-VY DK	21	8	19	7	18	7
3815	Celadon Green-DK	50	19	46	18	43	17
3827	Golden Brown-Pale	6	2	5	2	5	2
3828	Hazelnut Brown	258	102	241	95	226	89
3829	Old Gold-VY DK	17	6	16	6	15	6
3830	Terra Cotta-MD	93	36	86	34	81	32
3836	Grape-LT	24	9	23	8	21	8
3849	Teal Green-LT	213	84	199	78	186	73
3857	Rosewood-DK	122	48	114	44	107	42
3860	Cocoa	62	24	58	23	55	21
3861	Cocoa-LT	413	162	385	151	361	142
3862	Mocha Beige-DK	317	125	296	116	277	109
3863	Mocha Beige-MD	206	80	192	75	180	70
3864	Mocha Beige-LT	426	167	397	156	372	146
3865	Winter White	8	3	8	3	7	3
3866	Mocha Brown-UL VY LT	145	57	135	53	127	50

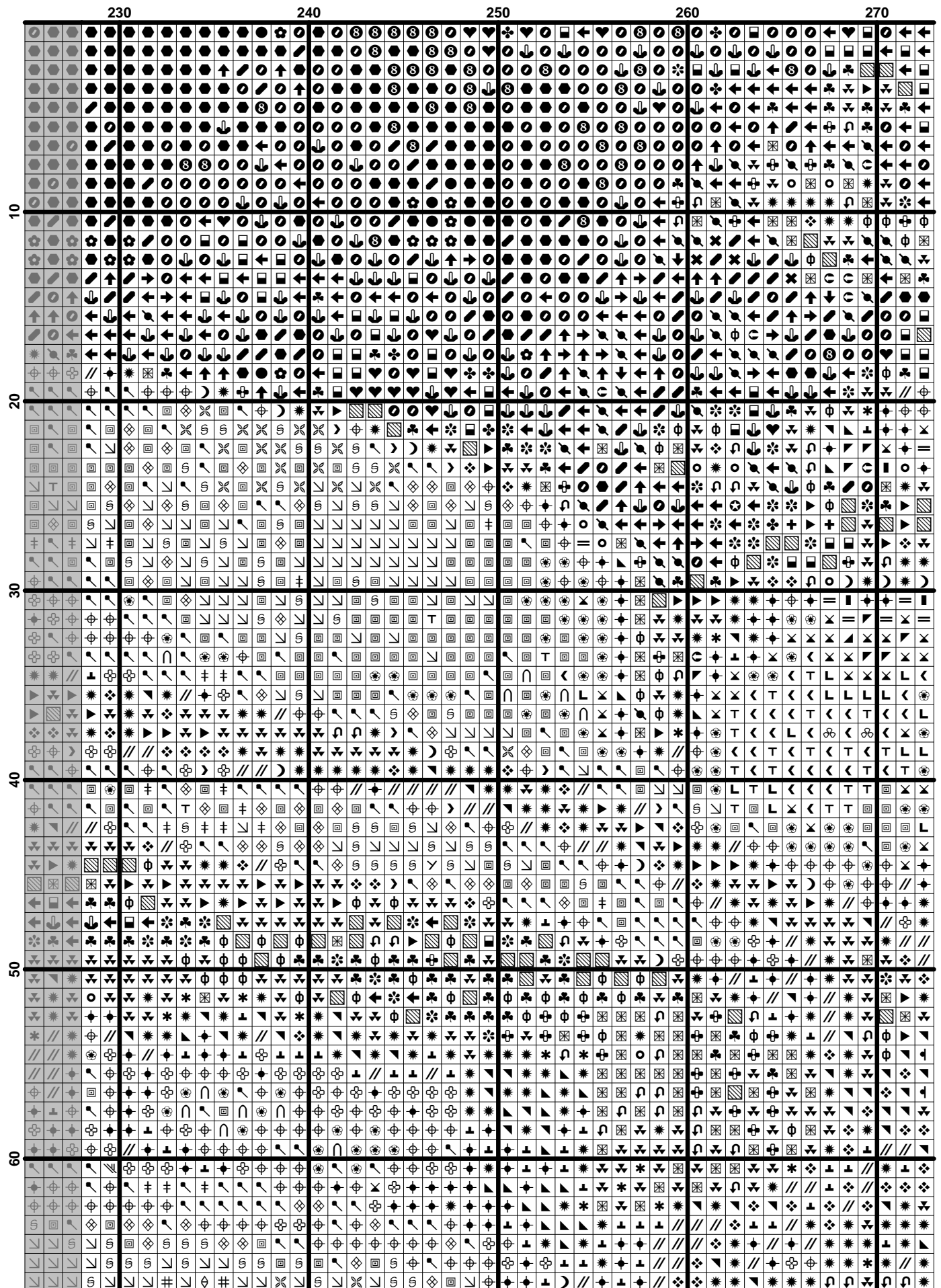


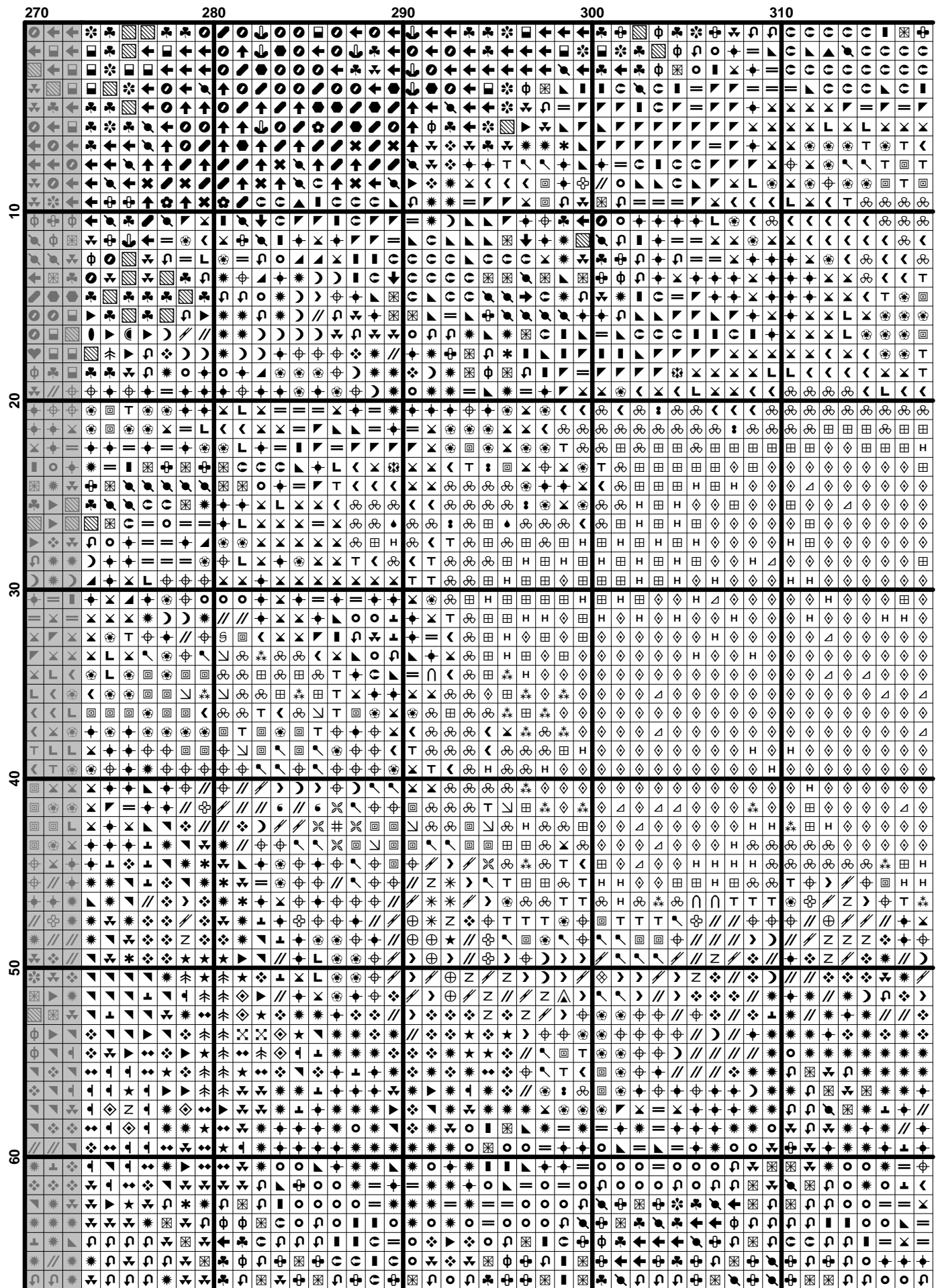






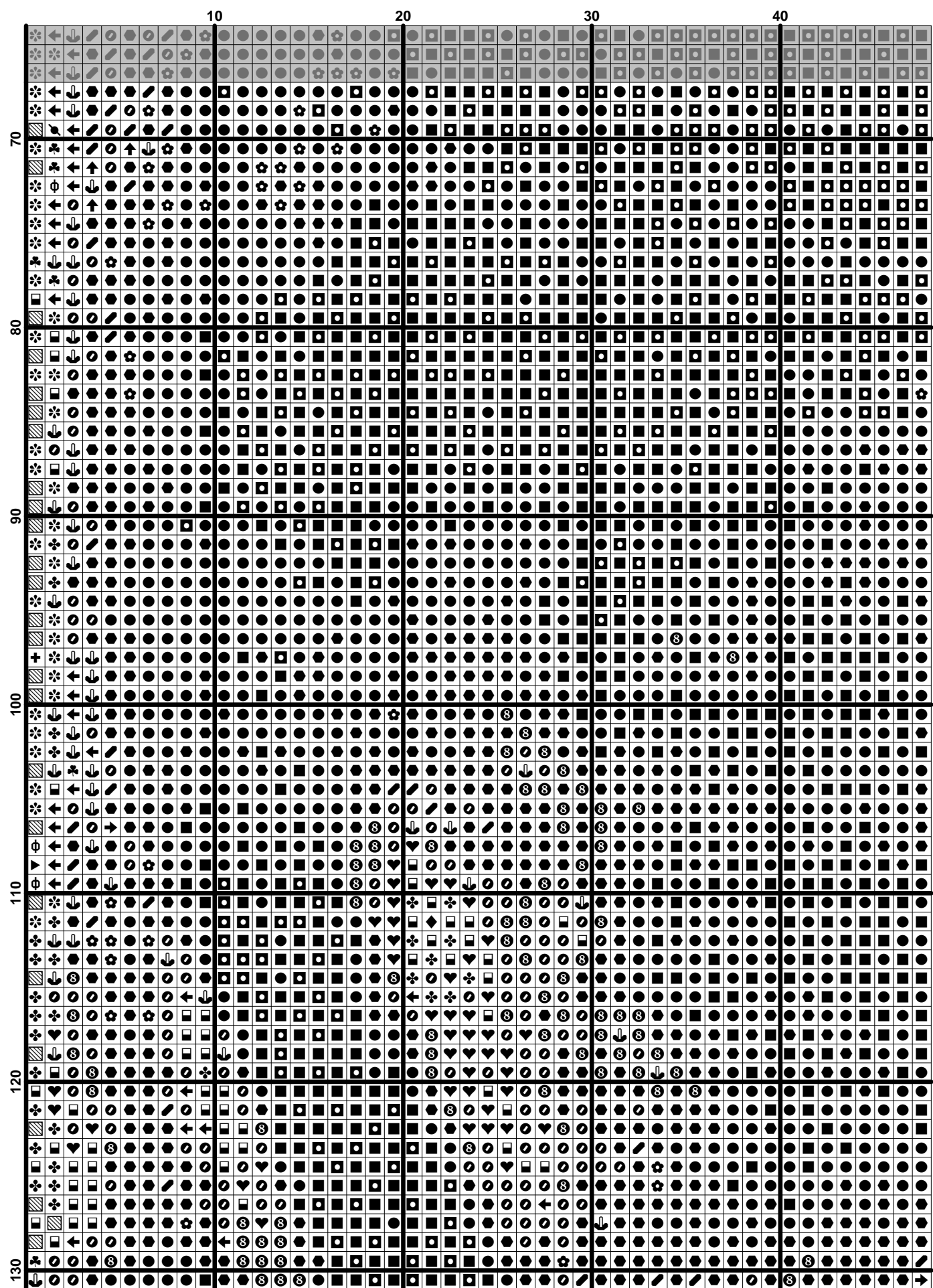


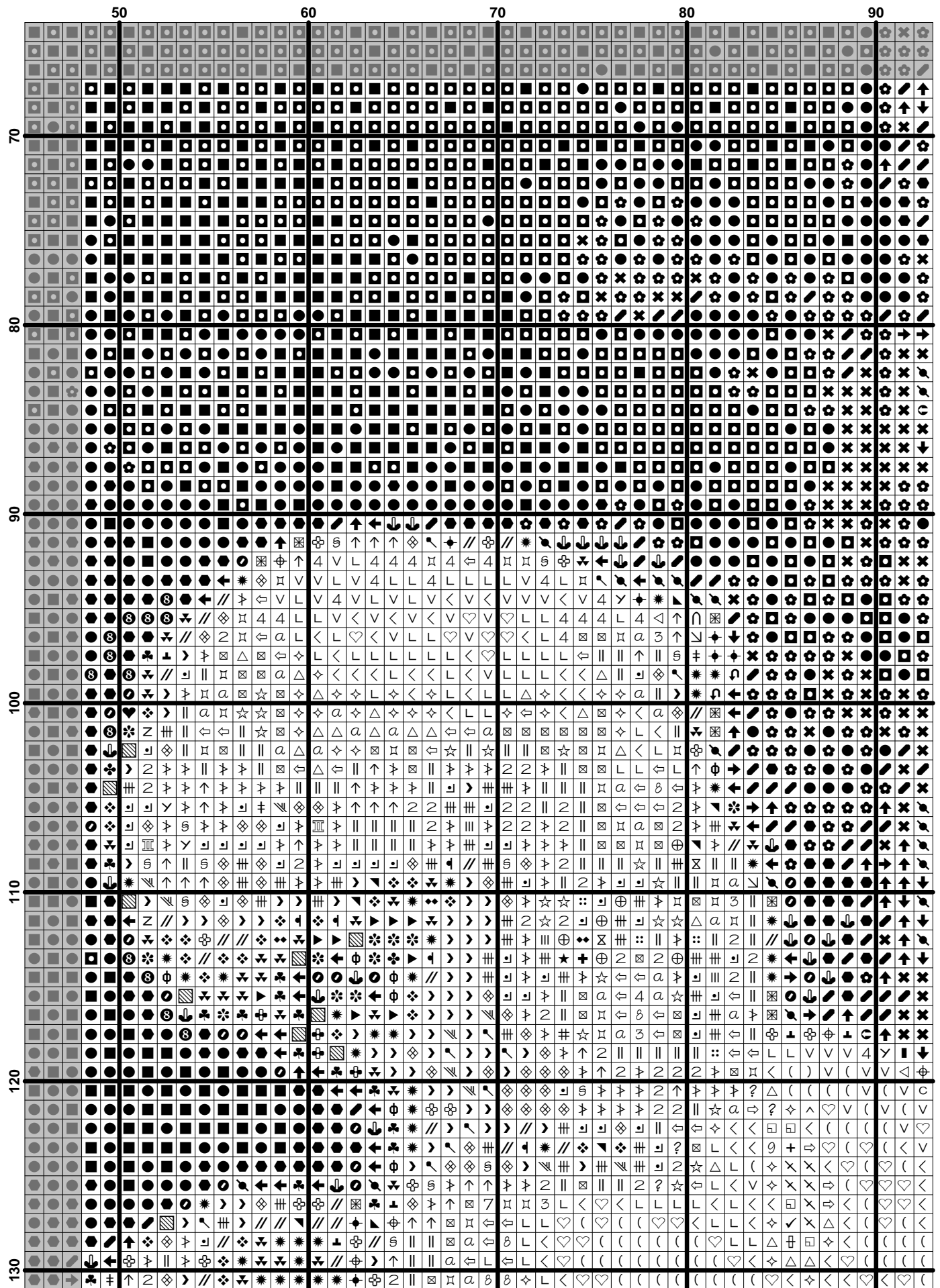


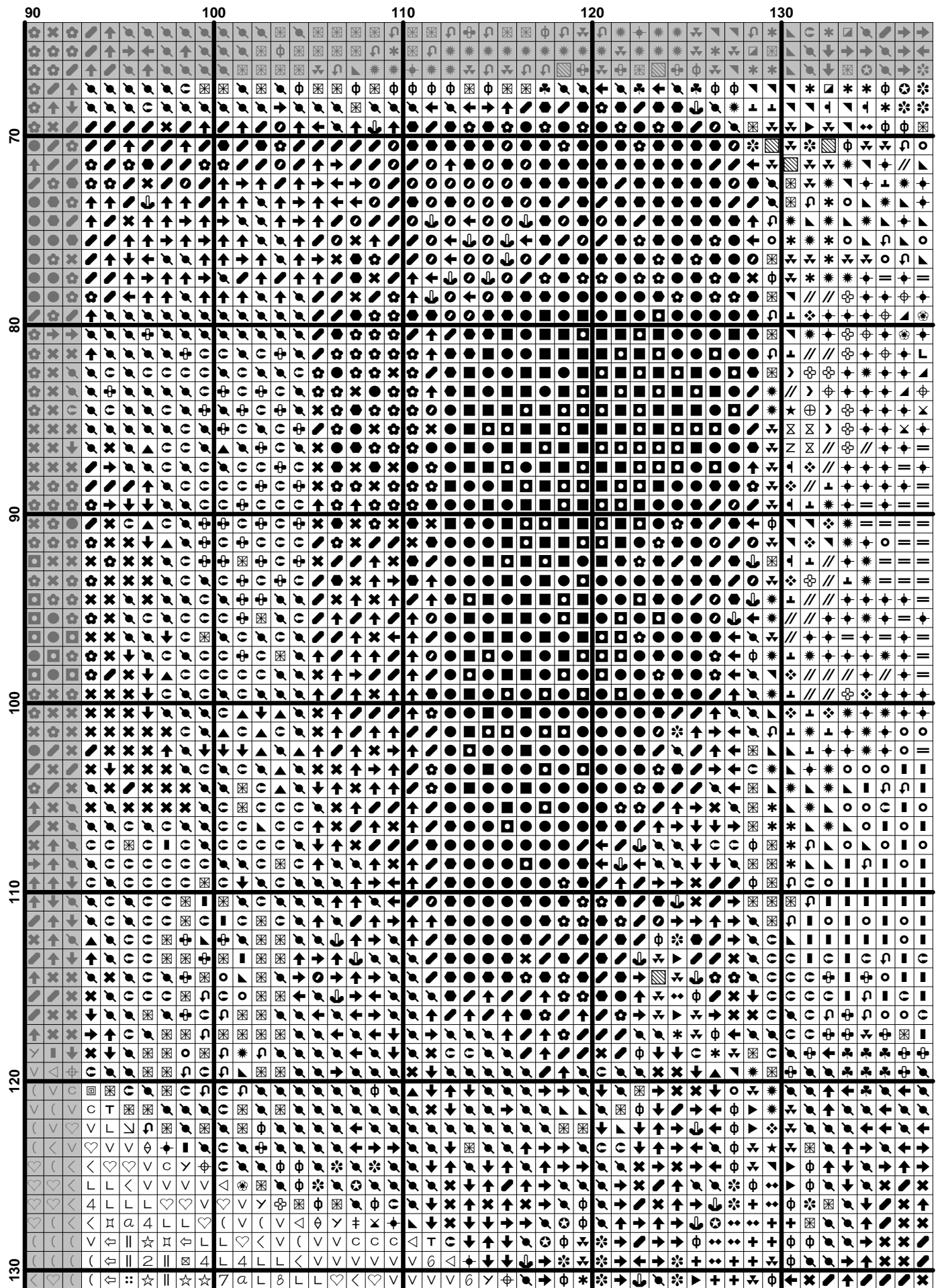


	320										330										340										350										360									
10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250
	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350
	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450
	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500
20	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550
	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600
	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650
	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700
	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750
	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850
	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900
	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950
	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	
30	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100
	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150
	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1																		

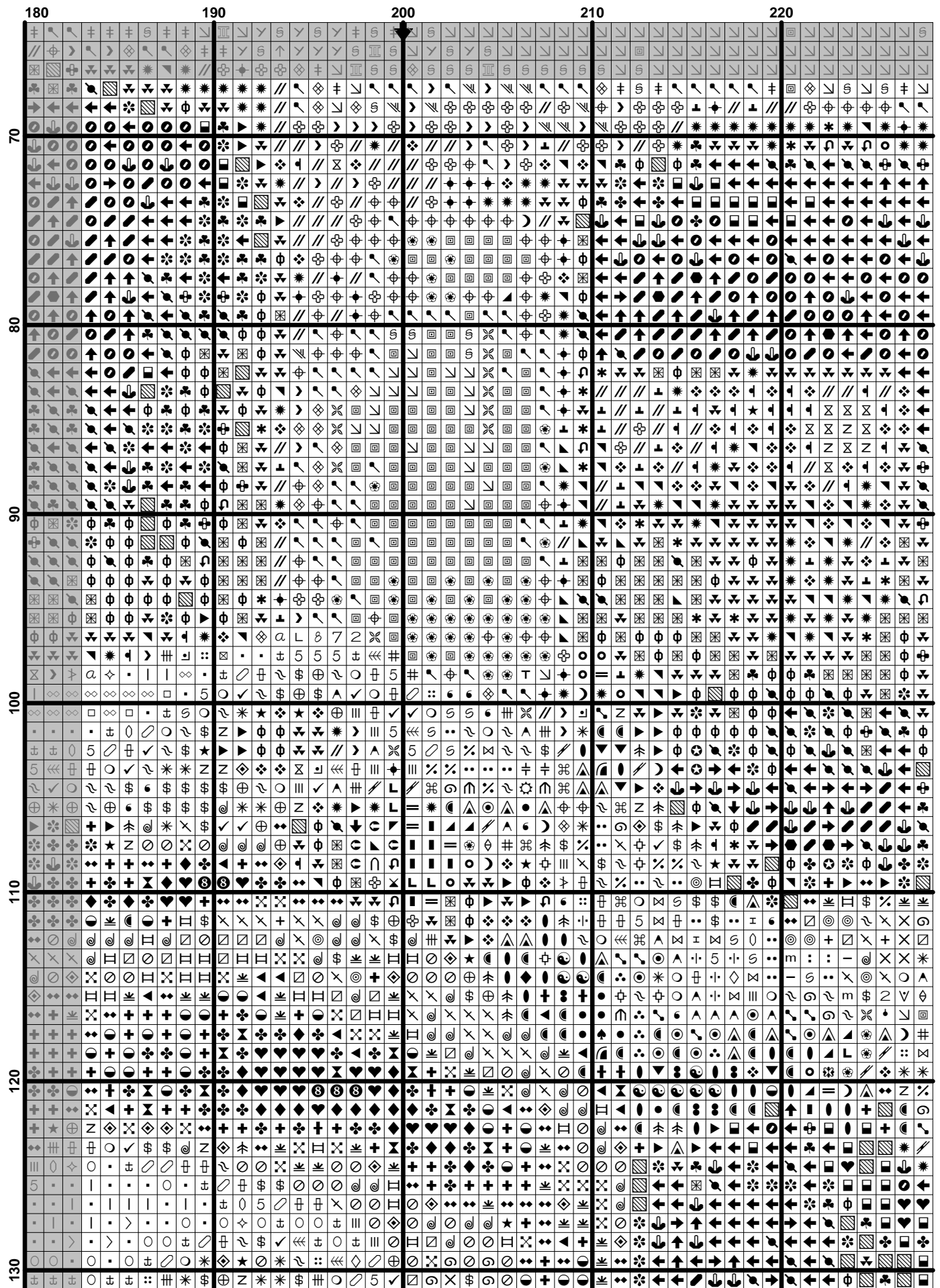
(18)

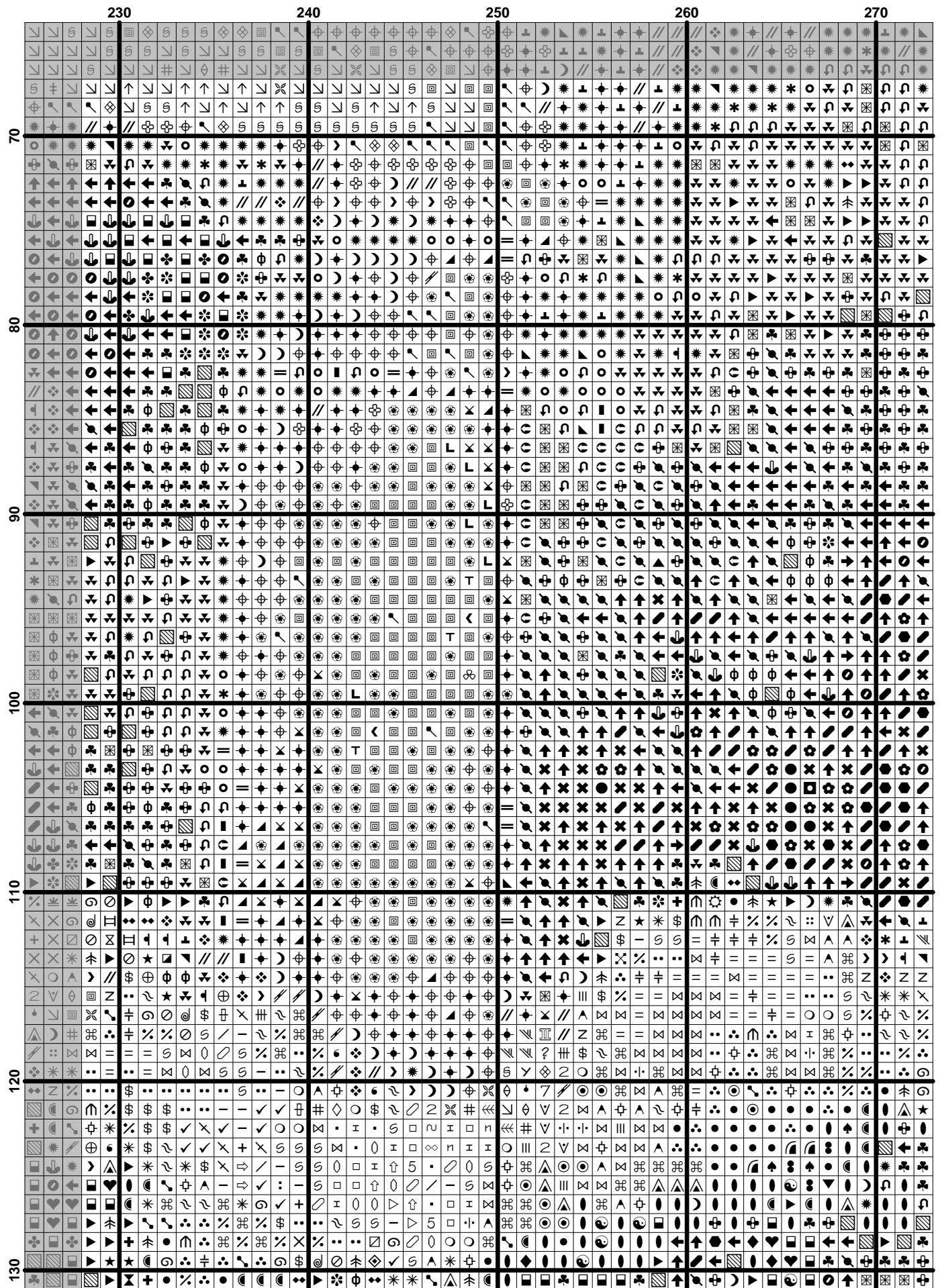






	140	150	160	170	180
70					
80					
90					
100					
110					
120					
130					

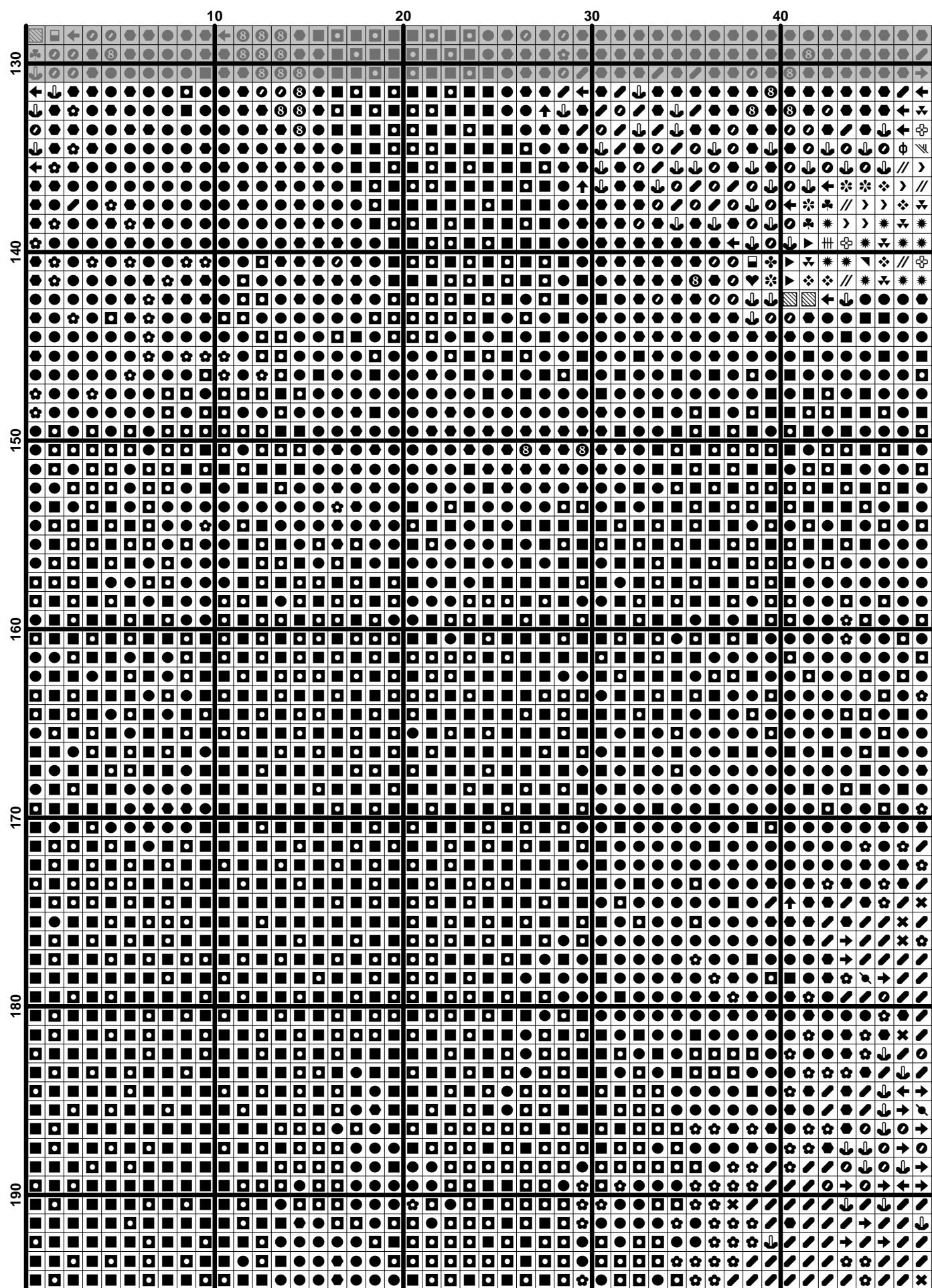











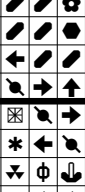
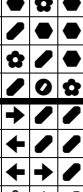
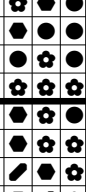



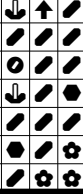
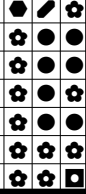



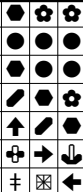
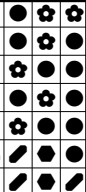









	270	280	290	300	310
70					
80					
90					
100					
110					
120					
130					

[illegible]

(27)



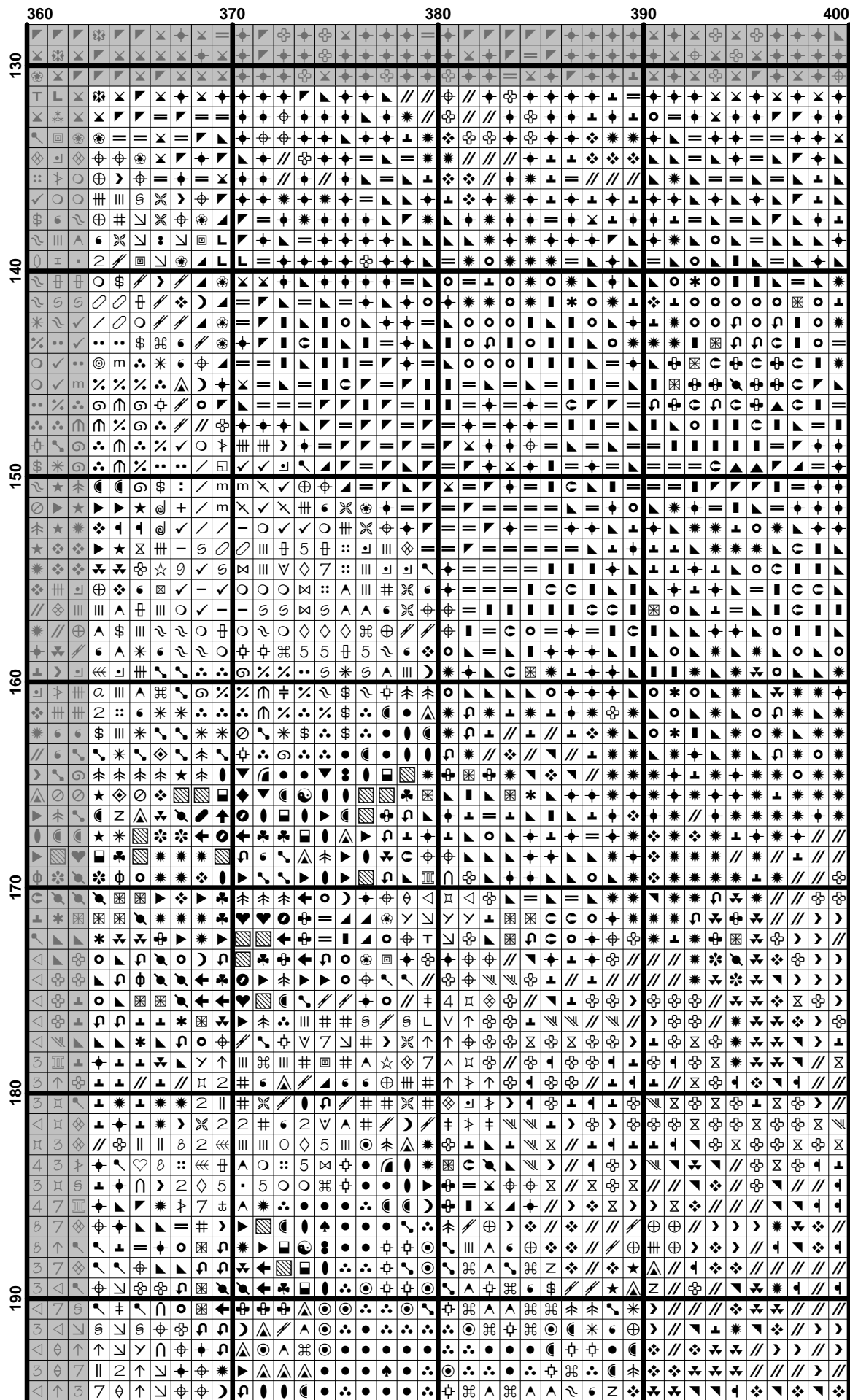
	50										60										70										80										90																																																	
130																																																																																										
140																																																																																										
150																																																																																										
160																																																																																										
170																																																																																										
180																																																																																										
190																																																																																										

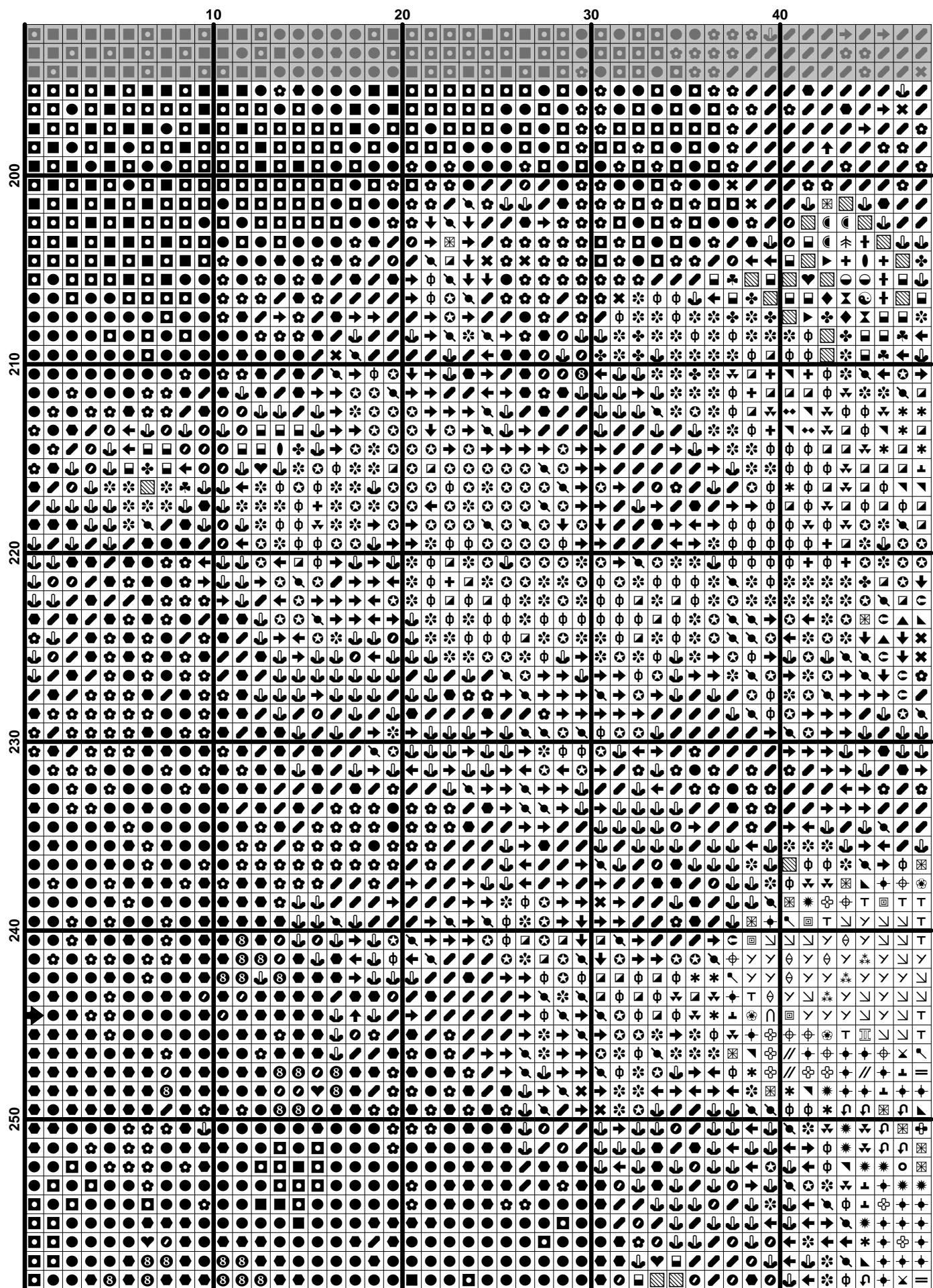
	90	100	110	120	130
130					
140					
150					
160					
170					
180					
190					

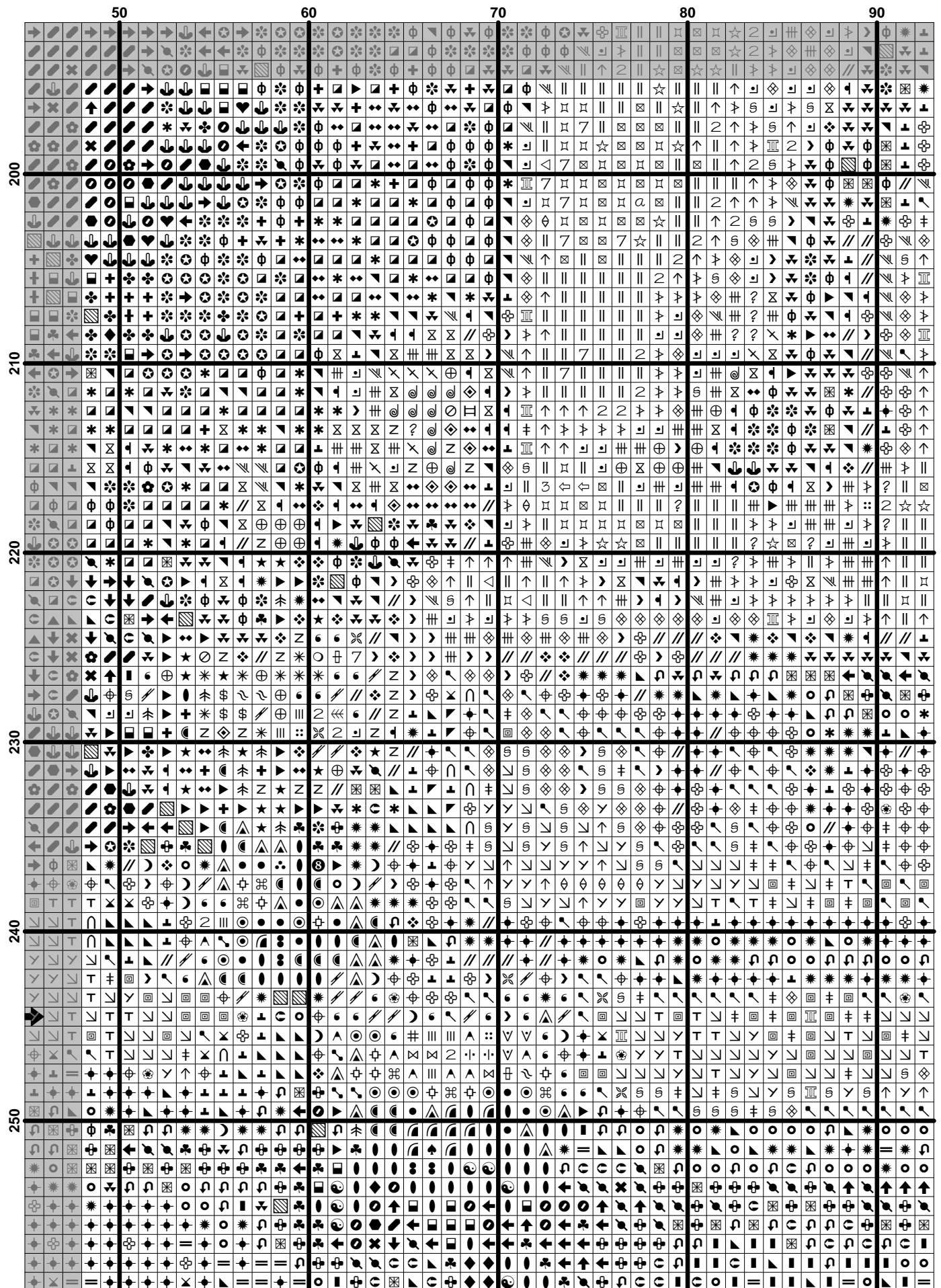
	180	190	200	210	220
130					
140					
150					
160					
170					
180					
190					

[illegible]

$$(35) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$







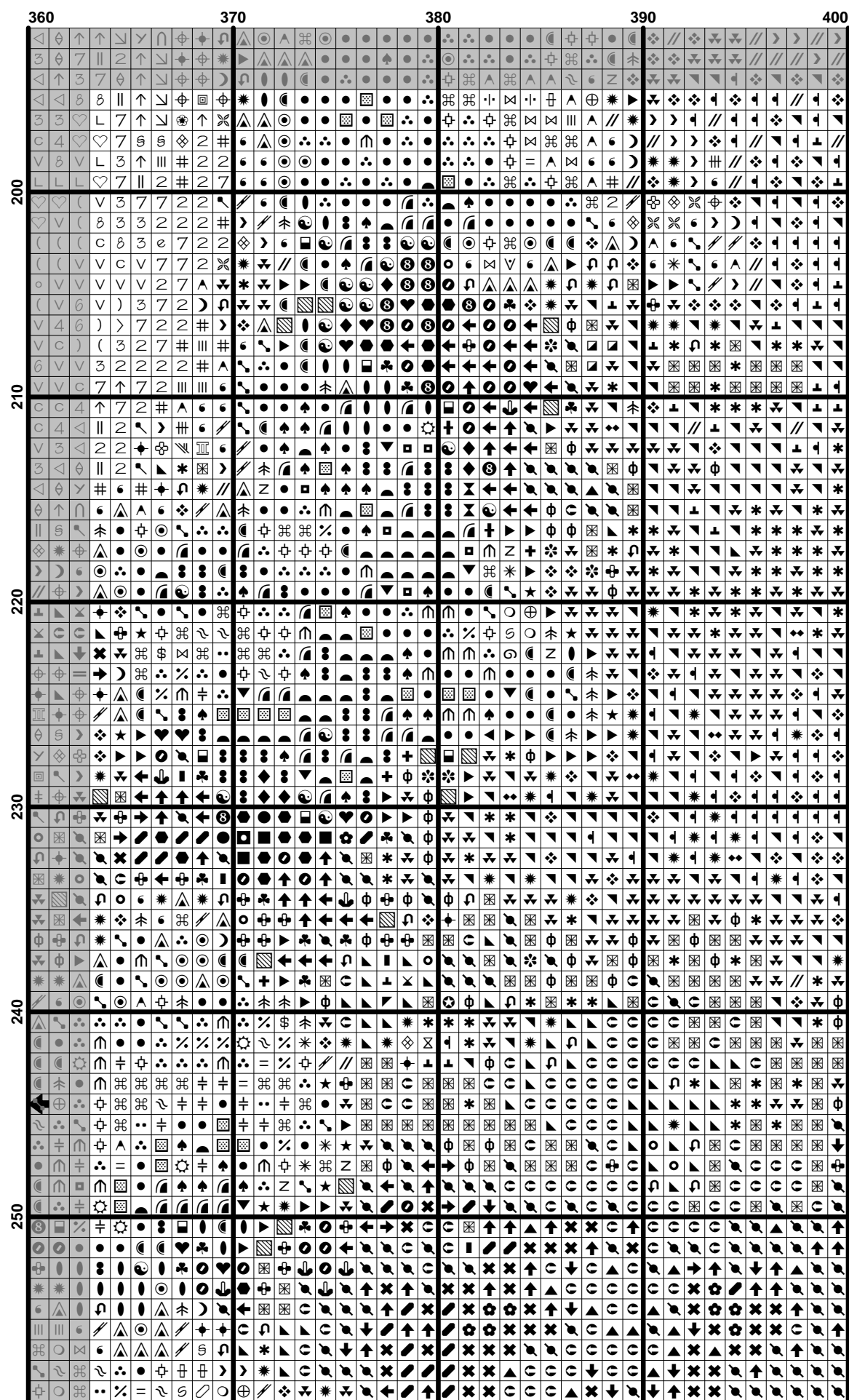
	90	100	110	120	130
200					
210					
220					
230					
240					
250					

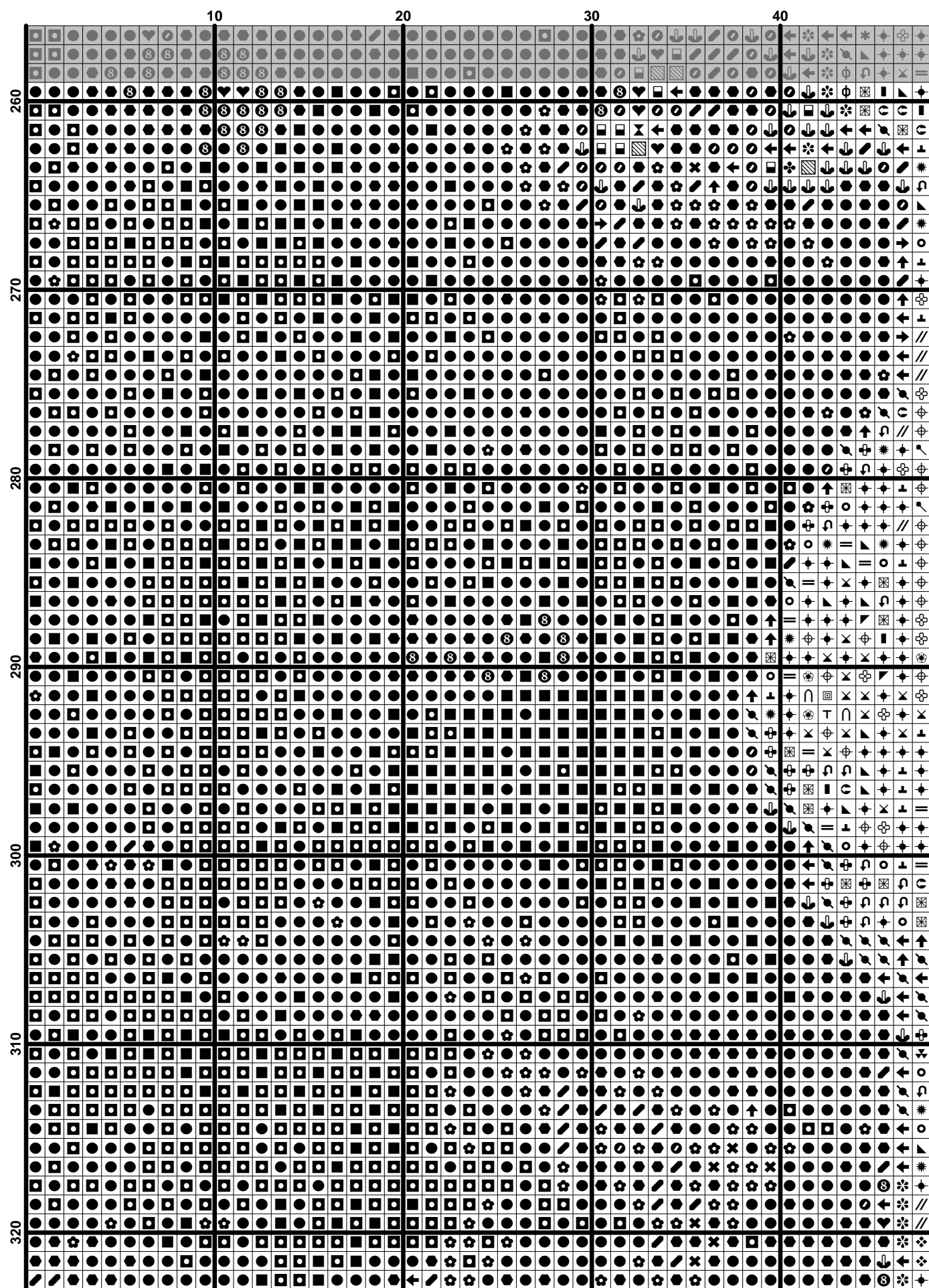
	140																																																																																																																																												150																																																																																																																																												160																																																																																																																																												170																																																																																																																																												180																																																																																																																																											
200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
210																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
220																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
230																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
240																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

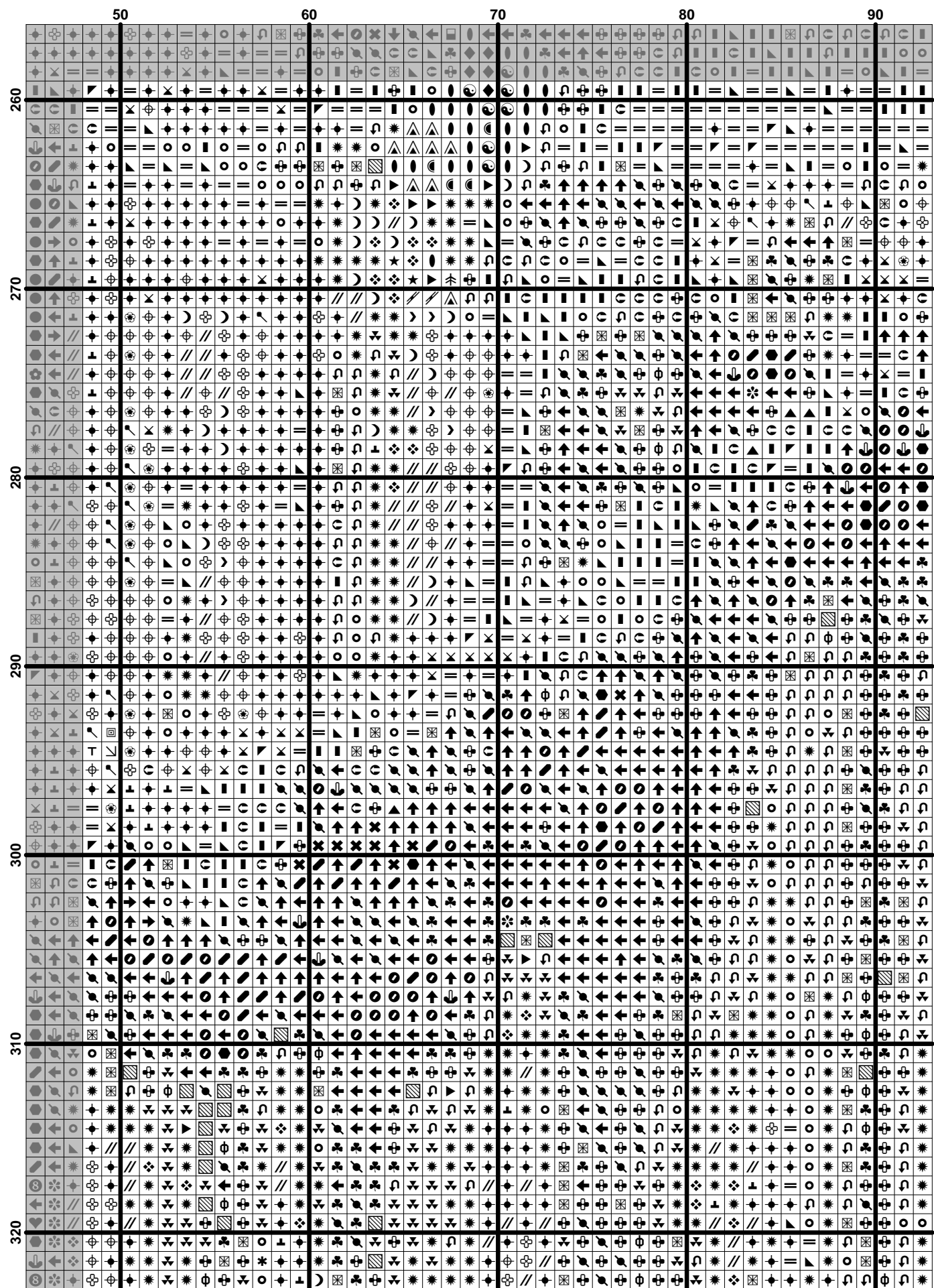
	180	190	200	210	220
200	180	190	200	210	220
210	210	220	230	240	250
220	220	230	240	250	260
230	230	240	250	260	270
240	240	250	260	270	280
250	250	260	270	280	290
260	260	270	280	290	300
270	270	280	290	300	310
280	280	290	300	310	320
290	290	300	310	320	330
300	300	310	320	330	340
310	310	320	330	340	350
320	320	330	340	350	360
330	330	340	350	360	370
340	340	350	360	370	380
350	350	360	370	380	390
360	360	370	380	390	400
370	370	380	390	400	410
380	380	390	400	410	420
390	390	400	410	420	430
400	400	410	420	430	440
410	410	420	430	440	450
420	420	430	440	450	460
430	430	440	450	460	470
440	440	450	460	470	480
450	450	460	470	480	490
460	460	470	480	490	500
470	470	480	490	500	510
480	480	490	500	510	520
490	490	500	510	520	530
500	500	510	520	530	540
510	510	520	530	540	550
520	520	530	540	550	560
530	530	540	550	560	570
540	540	550	560	570	580
550	550	560	570	580	590
560	560	570	580	590	600
570	570	580	590	600	610
580	580	590	600	610	620
590	590	600	610	620	630
600	600	610	620	630	640
610	610	620	630	640	650
620	620	630	640	650	660
630	630	640	650	660	670
640	640	650	660	670	680
650	650	660	670	680	690
660	660	670	680	690	700
670	670	680	690	700	710
680	680	690	700	710	720
690	690	700	710	720	730
700	700	710	720	730	740
710	710	720	730	740	750
720	720	730	740	750	760
730	730	740	750	760	770
740	740	750	760	770	780
750	750	760	770	780	790
760	760	770	780	790	800
770	770	780	790	800	810
780	780	790	800	810	820
790	790	800	810	820	830
800	800	810	820	830	840
810	810	820	830	840	850
820	820	830	840	850	860
830	830	840	850	860	870
840	840	850	860	870	880
850	850	860	870	880	890
860	860	870	880	890	900
870	870	880	890	900	910
880	880	890	900	910	920
890	890	900	910	920	930
900	900	910	920	930	940
910	910	920	930	940	950
920	920	930	940	950	960
930	930	940	950	960	970
940	940	950	960	970	980
950	950	960	970	980	990
960	960	970	980	990	1000

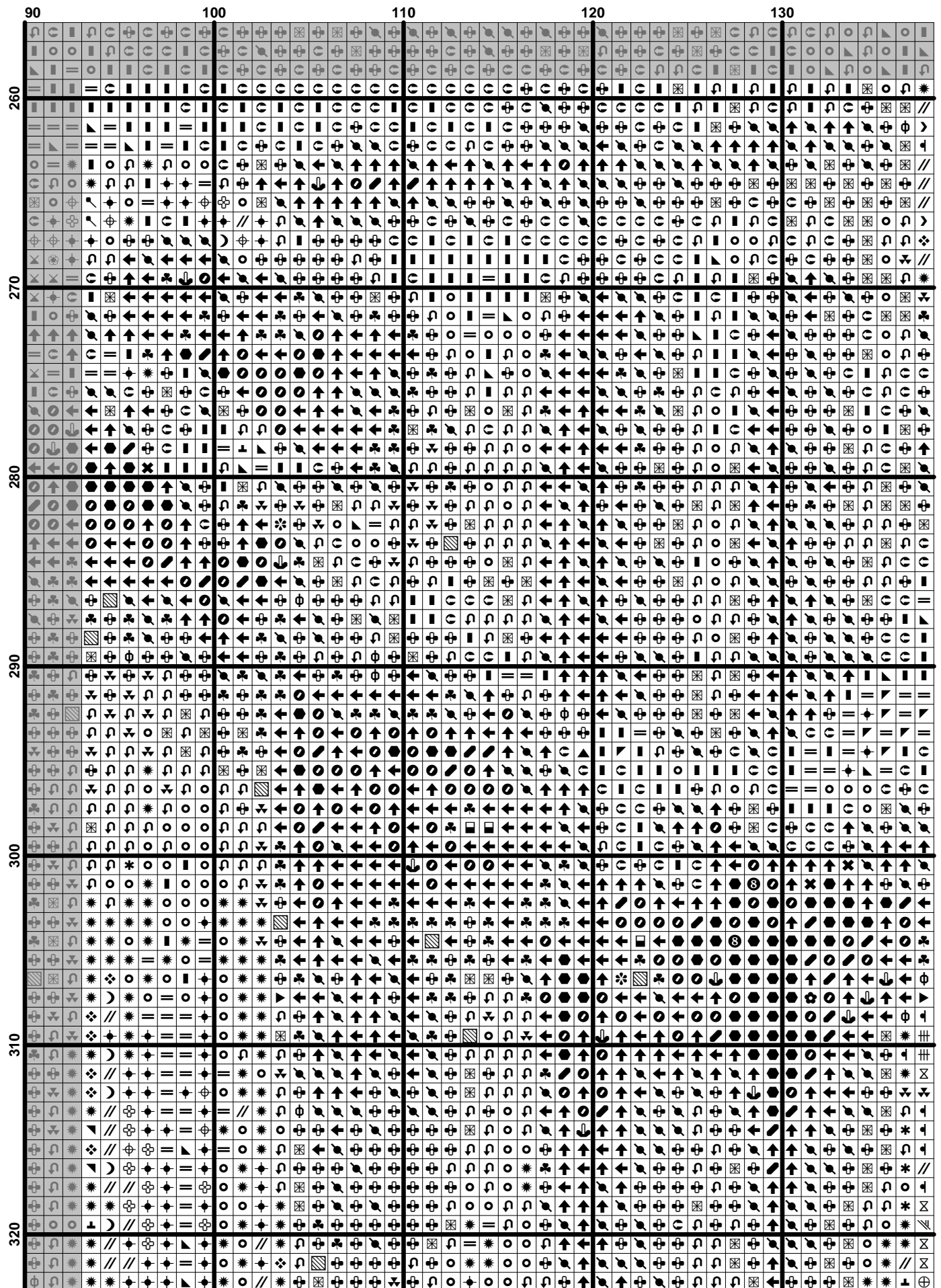
	270	280	290	300	310
200	270 271 272 273 274 275 276 277 278 279	280 281 282 283 284 285 286 287 288 289	290 291 292 293 294 295 296 297 298 299	300 301 302 303 304 305 306 307 308 309	310 311 312 313 314 315 316 317 318 319
210	270 271 272 273 274 275 276 277 278 279	280 281 282 283 284 285 286 287 288 289	290 291 292 293 294 295 296 297 298 299	300 301 302 303 304 305 306 307 308 309	310 311 312 313 314 315 316 317 318 319
220	270 271 272 273 274 275 276 277 278 279	280 281 282 283 284 285 286 287 288 289	290 291 292 293 294 295 296 297 298 299	300 301 302 303 304 305 306 307 308 309	310 311 312 313 314 315 316 317 318 319
230	270 271 272 273 274 275 276 277 278 279	280 281 282 283 284 285 286 287 288 289	290 291 292 293 294 295 296 297 298 299	300 301 302 303 304 305 306 307 308 309	310 311 312 313 314 315 316 317 318 319
240	270 271 272 273 274 275 276 277 278 279	280 281 282 283 284 285 286 287 288 289	290 291 292 293 294 295 296 297 298 299	300 301 302 303 304 305 306 307 308 309	310 311 312 313 314 315 316 317 318 319
250	270 271 272 273 274 275 276 277 278 279	280 281 282 283 284 285 286 287 288 289	290 291 292 293 294 295 296 297 298 299	300 301 302 303 304 305 306 307 308 309	310 311 312 313 314 315 316 317 318 319

	320										330										340										350										360									
200		∞	∞	∞	∞	∞	∞	∞	∞	∞					⚡	5	◇	⚡	⚡	⚡	5	:	:	:	☆	5	8	3	3	c	△	c	6	(())))	v	v	v	v	v	3	△	◇	↑		
		∞	∞		∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	5	:	:	:	2	a	7	7	3	7	△	c	6	o	()	v)	o)	v	v	c	v	v	8	c	3	◇	7
		∞		∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	∅	5	5	⚡	⚡	⚡	a	∥	7	3	7	△	△	6	()	v	6	()	()	v	v	c	v	v	v	c	c	△	△	8	
	∞		∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	⚡	7	2	∥	7	△	△	△	c	v)	v	6	()	(v	v	v	6	v	v	c	v	3	3	3	♡		
		∞	∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	☆	☆	☆	☆	☆	7	7	2	↑	7	△	△	△	c	v	v	6	v	v	()	v	v	v	v	v	c	v	3	3	3	♡		
		∞	∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	⚡	7	7	2	↑	7	△	△	△	c	v	v	6	v	v	()	v	v	v	v	v	c	v	3	3	3	♡		
		∞	∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	⚡	7	7	2	↑	7	△	△	△	c	v	v	6	v	v	()	v	v	v	v	v	c	v	3	3	3	♡		
		∞	∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	⚡	7	7	2	↑	7	△	△	△	c	v	v	6	v	v	()	v	v	v	v	v	c	v	3	3	3	♡		
		∞	∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	⚡	7	7	2	↑	7	△	△	△	c	v	v	6	v	v	()	v	v	v	v	v	c	v	3	3	3	♡		
		∞	∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	⚡	7	7	2	↑	7	△	△	△	c	v	v	6	v	v	()	v	v	v	v	v	c	v	3	3	3	♡		
210	∞	∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	⚡	7	7	2	↑	7	△	△	△	c	v	v	6	v	v	()	v	v	v	v	v	c	v	3	3	3	♡			
	∞	∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	⚡	7	7	2	↑	7	△	△	△	c	v	v	6	v	v	()	v	v	v	v	v	c	v	3	3	3	♡			
	∞	∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	⚡	7	7	2	↑	7	△	△	△	c	v	v	6	v	v	()	v	v	v	v	v	c	v	3	3	3	♡			
	∞	∞	∞	∞	∞	∞	∞	∞	∞				⚡	⚡	5	⚡	⚡	⚡	⚡	⚡	7	7	2	↑	7																									









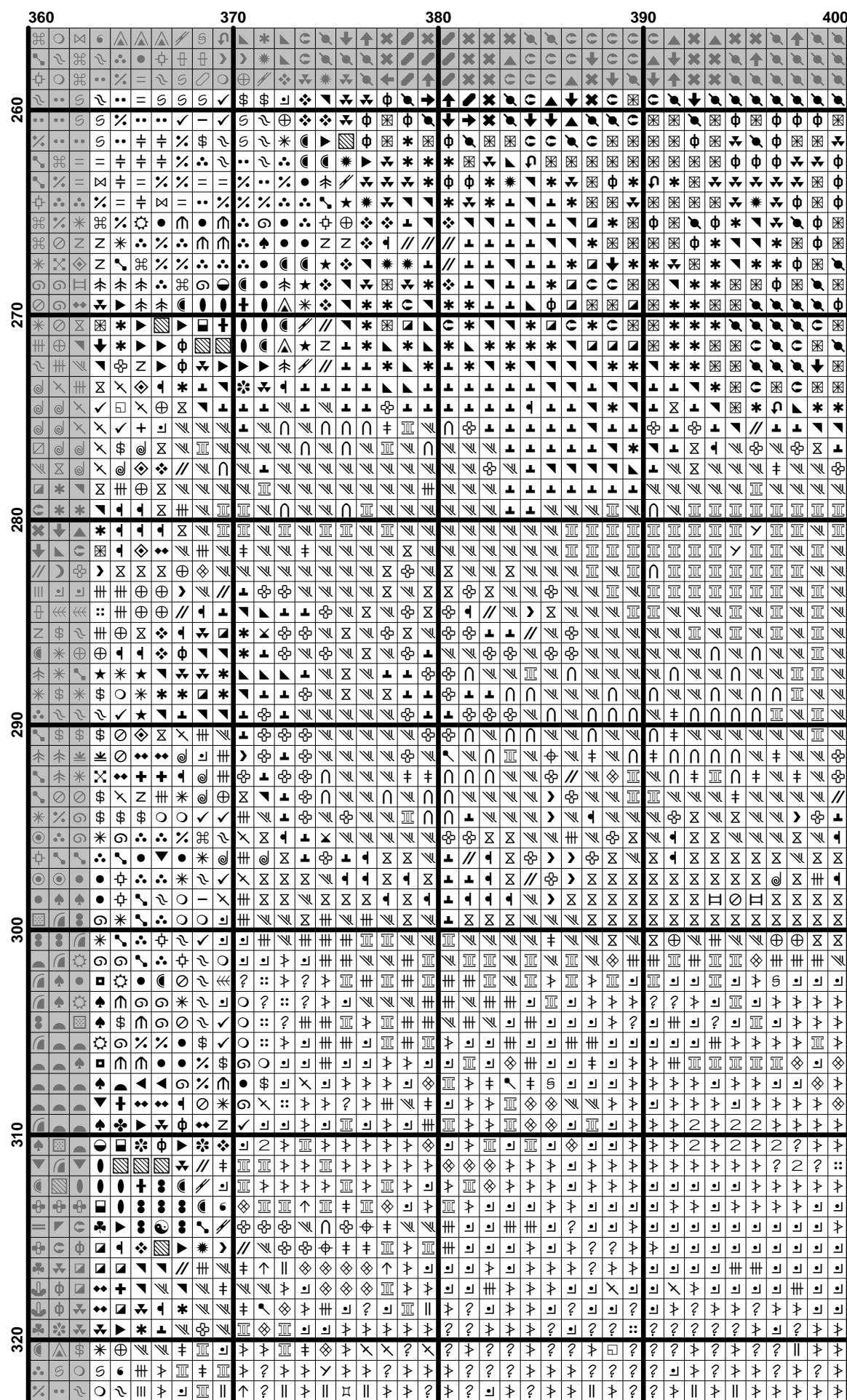
	140														150														160														170														180																																																																																																																																																																																																																																																																																																																																																																																																																																																														
260	▲	●	■	◆	▧	▩	⌘	⌚	⌛	⌜	⌝	⌞	⌟	⌠	⌡	⌢	⌣	⌤	⌥	⌦	⌧	⌨	〈	〉	⌫	⌬	⌭	⌮	⌯	⌰	⌱	⌲	⌳	⌴	⌵	⌶	⌷	⌸	⌹	⌺	⌻	⌼	⌽	⌾	⌿	⋀	⋁	⋂	⋃	⋄	⋅	⋆	⋇	⋈	⋉	⋊	⋋	⋌	⋍	⋎	⋏	⋐	⋑	⋒	⋓	⋔	⋕	⋖	⋗	⋘	⋙	⋚	⋛	⋜	⋝	⋞	⋟	⋠	⋡	⋢	⋣	⋤	⋥	⋦	⋧	⋨	⋩	⋪	⋫	⋬	⋭	⋮	⋯	⋰	⋱	⋲	⋳	⋴	⋵	⋶	⋷	⋸	⋹	⋺	⋻	⋼	⋽	⋾	⋿	⋀	⋁	⋂	⋃	⋄	⋅	⋆	⋇	⋈	⋉	⋊	⋋	⋌	⋍	⋎	⋏	⋐	⋑	⋒	⋓	⋔	⋕	⋖	⋗	⋘	⋙	⋚	⋛	⋜	⋝	⋞	⋟	⋠	⋡	⋢	⋣	⋤	⋥	⋦	⋧	⋨	⋩	⋪	⋫	⋬	⋭	⋮	⋯	⋰	⋱	⋲	⋳	⋴	⋵	⋶	⋷	⋸	⋹	⋺	⋻	⋼	⋽	⋾	⋿	⋀	⋁	⋂	⋃	⋄	⋅	⋆	⋇	⋈	⋉	⋊	⋋	⋌	⋍	⋎	⋏	⋐	⋑	⋒	⋓	⋔	⋕	⋖	⋗	⋘	⋙	⋚	⋛	⋜	⋝	⋞	⋟	⋠	⋡	⋢	⋣	⋤	⋥	⋦	⋧	⋨	⋩	⋪	⋫	⋬	⋭	⋮	⋯	⋰	⋱	⋲	⋳	⋴	⋵	⋶	⋷	⋸	⋹	⋺	⋻	⋼	⋽	⋾	⋿	⋀	⋁	⋂	⋃	⋄	⋅	⋆	⋇	⋈	⋉	⋊	⋋	⋌	⋍	⋎	⋏	⋐	⋑	⋒	⋓	⋔	⋕	⋖	⋗	⋘	⋙	⋚	⋛	⋜	⋝	⋞	⋟	⋠	⋡	⋢	⋣	⋤	⋥	⋦	⋧	⋨	⋩	⋪	⋫	⋬	⋭	⋮	⋯	⋰	⋱	⋲	⋳	⋴	⋵	⋶	⋷	⋸	⋹	⋺	⋻	⋼	⋽	⋾	⋿	⋀	⋁	⋂	⋃	⋄	⋅	⋆	⋇	⋈	⋉	⋊	⋋	⋌	⋍	⋎	⋏	⋐	⋑	⋒	⋓	⋔	⋕	⋖	⋗	⋘	⋙	⋚	⋛	⋜	⋝	⋞	⋟	⋠	⋡	⋢	⋣	⋤	⋥	⋦	⋧	⋨	⋩	⋪	⋫	⋬	⋭	⋮	⋯	⋰	⋱	⋲	⋳	⋴	⋵	⋶	⋷	⋸	⋹	⋺	⋻	⋼	⋽	⋾	⋿	⋀	⋁	⋂	⋃	⋄	⋅	⋆	⋇	⋈	⋉	⋊	⋋	⋌	⋍	⋎	⋏	⋐	⋑	⋒	⋓	⋔	⋕	⋖	⋗	⋘	⋙	⋚	⋛	⋜	⋝	⋞	⋟	⋠	⋡	⋢	⋣	⋤	⋥	⋦	⋧	⋨	⋩	⋪	⋫	⋬	⋭	⋮	⋯	⋰	⋱	⋲	⋳	⋴	⋵	⋶	⋷	⋸	⋹	⋺	⋻	⋼	⋽	⋾	⋿	⋀	⋁	⋂	⋃	⋄	⋅	⋆	⋇	⋈	⋉	⋊	⋋	⋌	⋍	⋎	⋏	⋐	⋑	⋒	⋓	⋔	⋕	⋖	⋗	⋘	⋙	⋚	⋛	⋜	⋝	⋞	⋟	⋠	⋡	⋢	⋣	⋤	⋥	⋦	⋧	⋨	⋩	⋪	⋫	⋬	⋭	⋮	⋯	⋰	⋱	⋲	⋳	⋴	⋵	⋶	⋷	⋸	⋹	⋺	⋻	⋼	⋽	⋾	⋿	⋀	⋁	⋂	⋃	⋄	⋅	⋆	⋇	⋈	⋉</

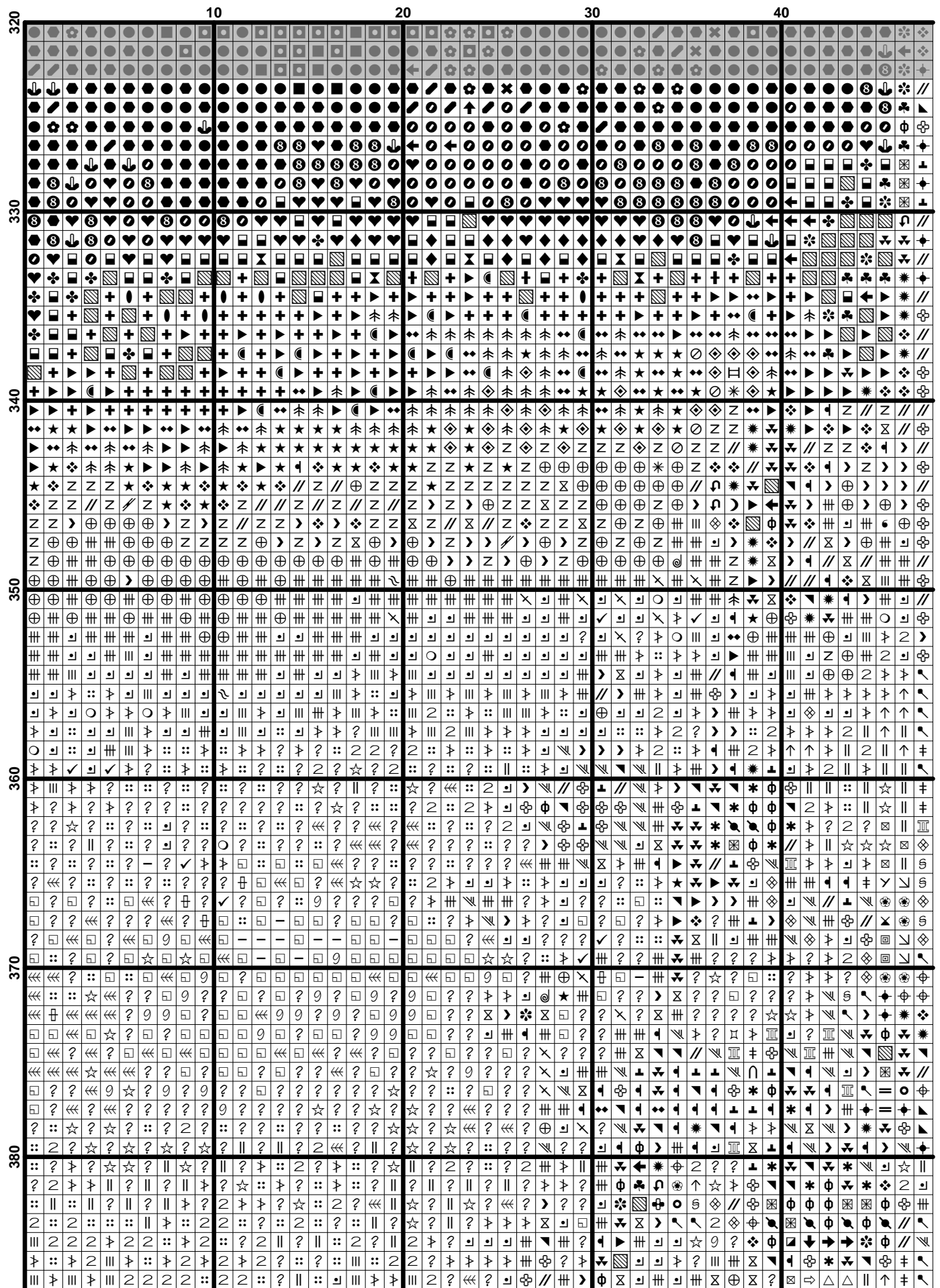
[illegible]

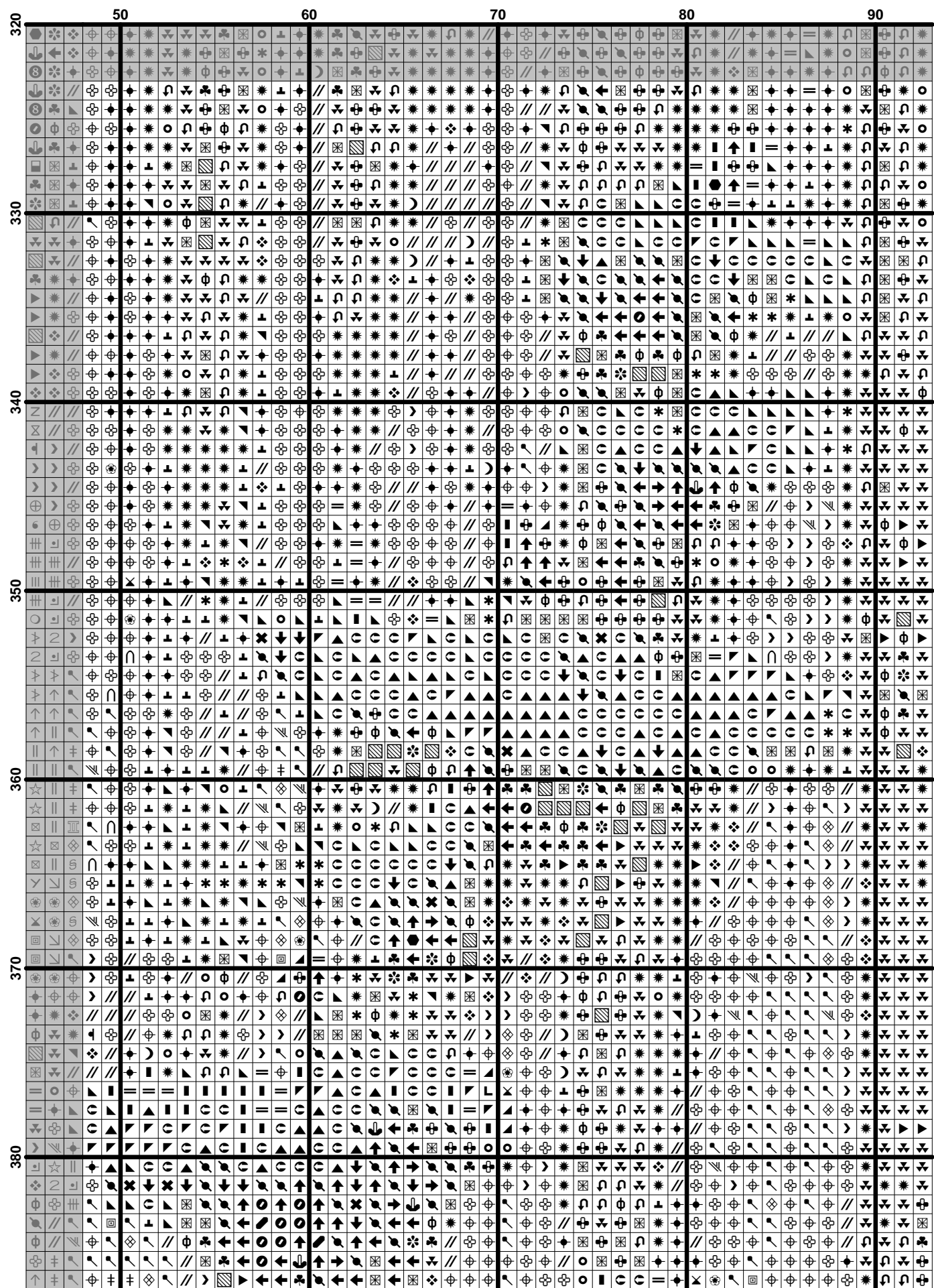
	230	240	250	260	270
260	⊕	⊕	⊕	⊕	⊕
270	⊕	⊕	⊕	⊕	⊕
280	⊕	⊕	⊕	⊕	⊕
290	⊕	⊕	⊕	⊕	⊕
300	⊕	⊕	⊕	⊕	⊕
310	⊕	⊕	⊕	⊕	⊕
320	⊕	⊕	⊕	⊕	⊕

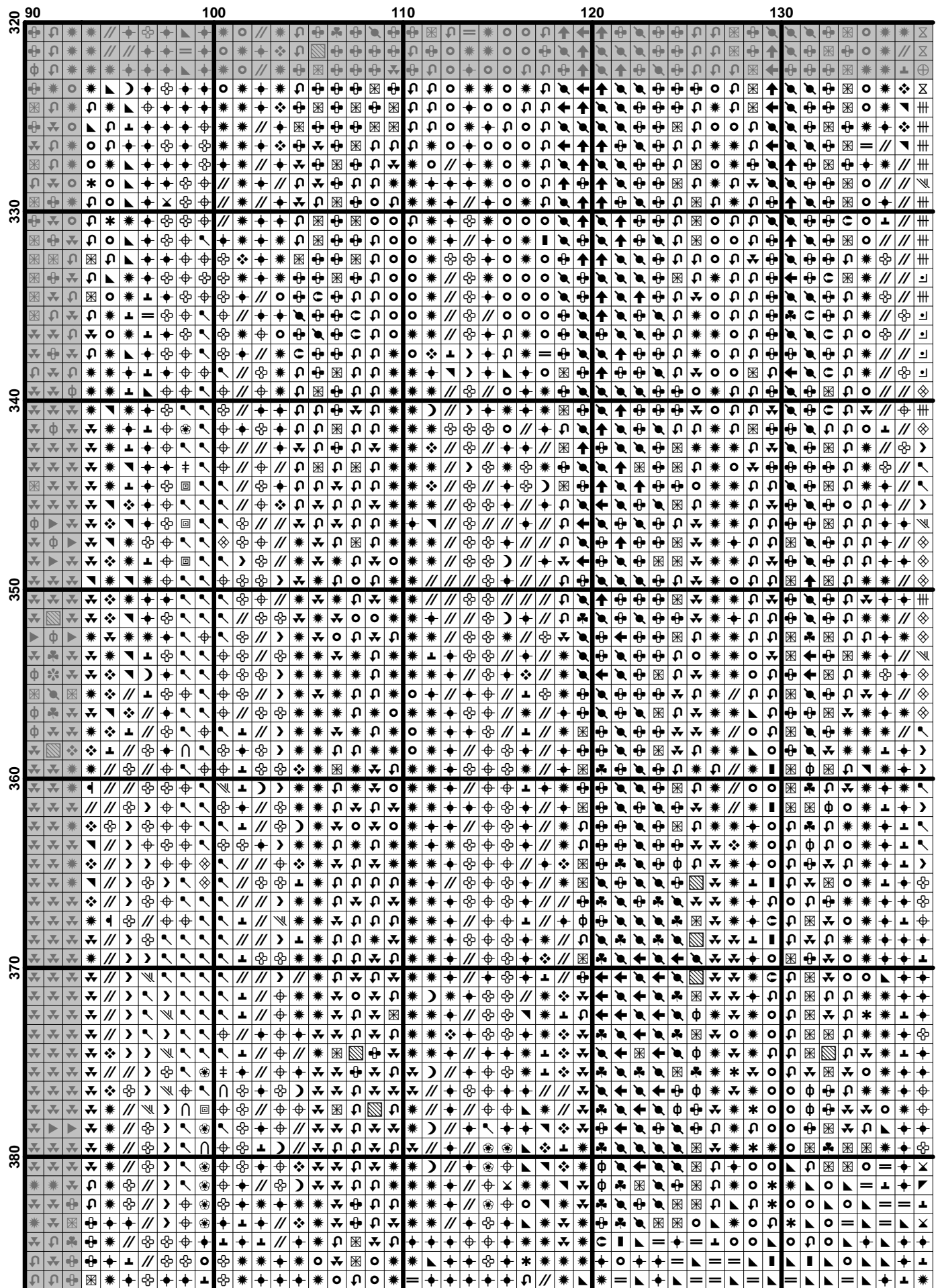
[illegible]

[illegible]









[illegible]

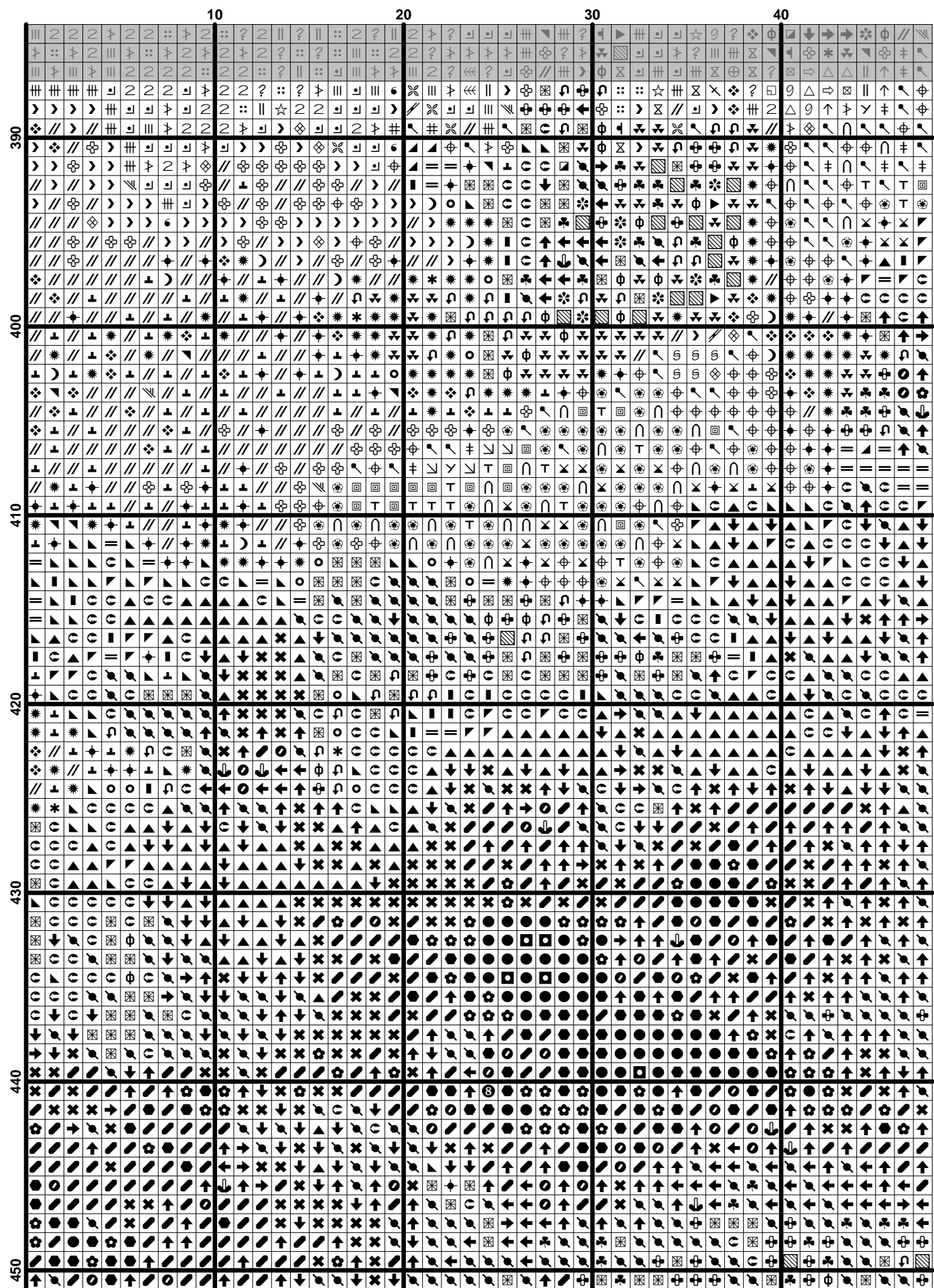
	180	190	200	210	220
320					
330					
340					
350					
360					
370					
380					

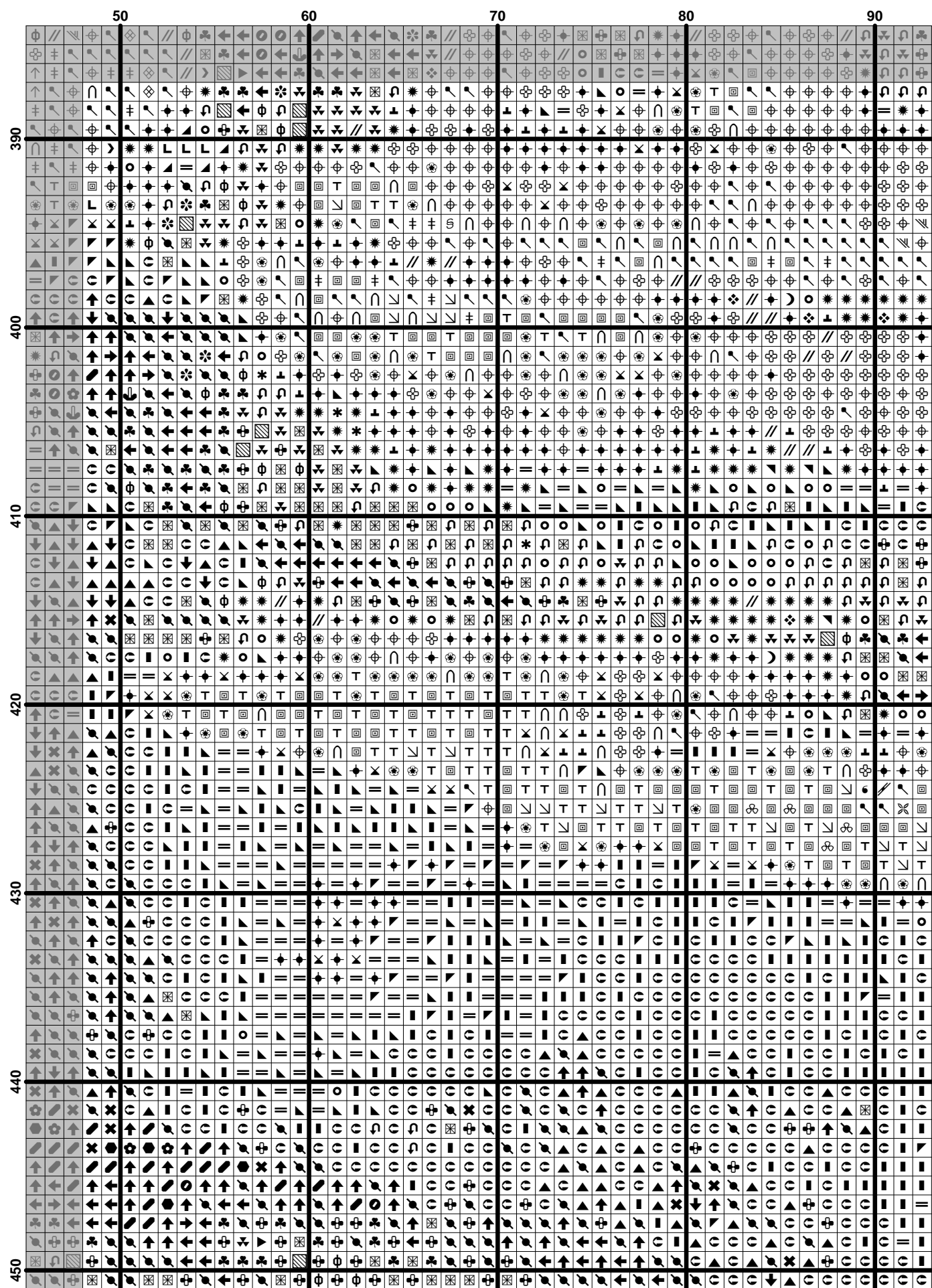
[illegible]

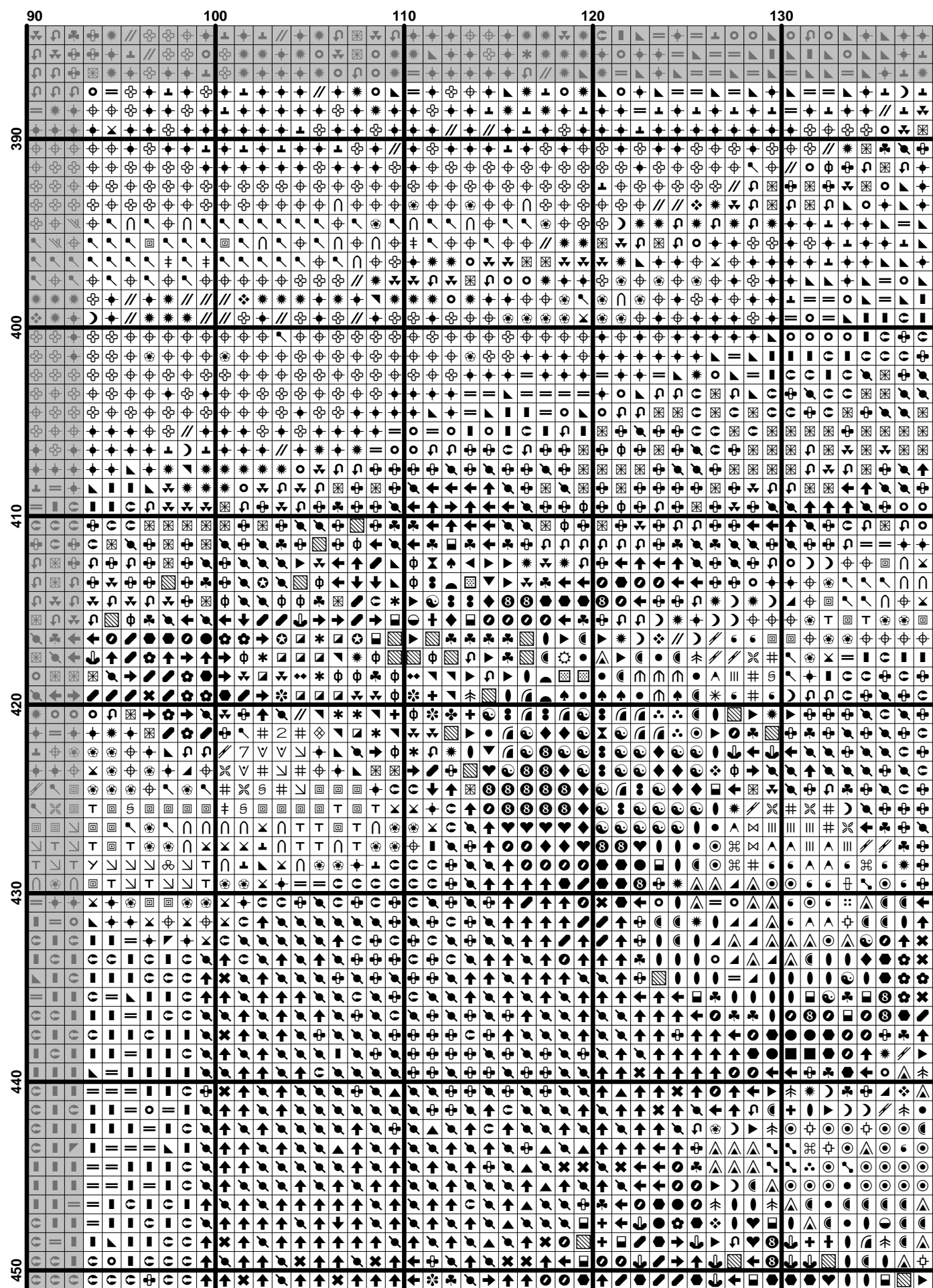
320	270	280	290	300	310
320	320	320	320	320	320
330	330	330	330	330	330
340	340	340	340	340	340
350	350	350	350	350	350
360	360	360	360	360	360
370	370	370	370	370	370
380	380	380	380	380	380

(63)

320	360	370	380	390	400
320	360	370	380	390	400
330					
340					
350					
360					
370					
380					







	140	150	160	170	180
390					
400					
410					
420					
430					
440					
450					

[illegible]

[illegible]

[illegible]

(72)

