

1097 Beautiful Summer Flowers



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) 2007-, 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.

Beautiful Summer Flowers

Stitch Count	
Horizontal:	300
Vertical:	278

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:	55	21.37	51	19.76	48	18.7	44	17.29	43	16.625	40	15.375
Including Margins:	71	28	67	26	64	25	60	24	59	23	56	22
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	77	29.91	71	27.66	64	24.93	59	23.05	32	12.46	29	11.52
Including Margins:	93	36	87	34	80	31	75	30	48	19	45	18
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	30	11.96	28	11.06	29	11.5	27	10.64	28	11.08	26	10.24
Including Margins:	46	18	44	18	45	18	43	17	44	18	42	17
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	27	10.68	25	9.88	25	9.97	23	9.22	24	9.34	22	8.64
Including Margins:	43	17	41	16	41	16	39	16	40	16	38	15

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
⋮	223	Shell Pink-LT
✧	224	Shell Pink-VY LT
↖	334	Baby Blue-MD
⊙	414	Steel Gray-DK
√	415	Pearl Gray
m	437	Tan-LT
*	451	Shell Gray-DK
2	452	Shell Gray-MD
◇	502	Blue Green
T	503	Blue Green-MD
\$	522	Fern Green
†	523	Fern Green-LT
+	535	Ash Gray-VY LT
⌘	563	Jade-LT
g	613	Drab Brown-VY LT
♦♦	645	Beaver Gray-VY DK
⦿	646	Beaver Gray-DK
⦿	647	Beaver Gray-MD
⦿	648	Beaver Gray-LT
δ	712	Cream
⦿	738	Tan-VY LT
⦿	739	Tan-UL VY LT
⦿	745	Yellow-LT Pale
1	746	Off White
^	747	Sky Blue-VY LT
⦿	758	Terra Cotta-VY LT
)	762	Pearl Gray-VY LT
n	819	Baby Pink-LT
▼	844	Beaver Brown-UL DK
✕	902	Garnet-VY DK
⦿	926	Gray Green-MD
III	927	Gray Green-LT
×	932	Antique Blue-LT
↑	935	Avocado Green-DK
⦿	938	Coffee Brown-UL DK
(948	Peach-VY LT

+	950	Desert Sand-LT
•	963	Dusty Rose-UL VY LT
H	3013	Khaki Green-LT
6	3024	Brown Gray-VY LT
⦿	3032	Mocha Brown-MD
⦿	3041	Antique Violet-MD
↘	3064	Desert Sand
L	3072	Beaver Gray-VY LT
o	3078	Golden Yellow-VY LT
✕	3346	Hunter Green
⦿	3347	Yellow Green-MD
☆	3348	Yellow Green-LT
⦿	3362	Pine Green-DK
⦿	3364	Pine Green
■	3371	Black Brown
♡	3713	Salmon-VY LT
e	3716	Dusty Rose-VY LT
♠	3721	Shell Pink-DK
Y	3733	Dusty Rose
⦿	3740	Antique Violet-DK
4	3743	Antique Violet-VY LT
⦿	3752	Antique Blue-VY LT
:	3753	Antique Blue-UL VY LT
∞	3756	Baby Blue-UL VY LT
⦿	3768	Gray Green-DK
~	3770	Tawny-VY LT
⦿	3781	Mocha Brown-DK
⦿	3787	Brown Gray-DK
⦿	3790	Beige Gray-UL DK
⦿	3799	Pewter Gray-VY DK
♣	3802	Antique Mauve-VY DK
⦿	3816	Celadon Green-MD
⇄	3856	Mahogany-UL VY LT
♣	3860	Cocoa
⦿	3861	Cocoa-LT
⦿	3864	Mocha Beige-LT
u	3865	Winter White
□	3866	Mocha Brown-UL VY LT
Δ	Ecru	Ecru

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
♥	934	Black Avocado Green	3799	Pewter Gray-VY DK
⦿	3362	Pine Green-DK	935	Avocado Green-DK
♣	3346	Hunter Green	3787	Brown Gray-DK
▶	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
«	3756	Baby Blue-UL VY LT	3865	Winter White
a	543	Beige Brown-UL VY LT	778	Antique Mauve-VY LT
⦿	3011	Khaki Green-DK	3346	Hunter Green
L	3347	Yellow Green-MD	3790	Beige Gray-UL DK
‡	370	Mustard-MD	471	Avocado Green-VY LT
⇒	3046	Yellow Beige-MD	677	Old Gold-VY LT

■	934	Black Avocado Green	310	Black
⦿	413	Pewter Gray-DK	3799	Pewter Gray-VY DK
∴	3772	Desert Sand-VY DK	435	Brown-VY LT
←	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
→	938	Coffee Brown-UL DK	844	Beaver Brown-UL DK
☛	823	Navy Blue-DK	3802	Antique Mauve-VY DK
✦	3740	Antique Violet-DK	535	Ash Gray-VY LT
⬆	3802	Antique Mauve-VY DK	844	Beaver Brown-UL DK
✱	3721	Shell Pink-DK	3726	Antique Mauve-DK
⬇	223	Shell Pink-LT	3726	Antique Mauve-DK
⊕	3721	Shell Pink-DK	3802	Antique Mauve-VY DK
⊗	407	Desert Sand-DK	451	Shell Gray-DK
◀	3726	Antique Mauve-DK	315	Antique Mauve-VY DK
✂	414	Steel Gray-DK	452	Shell Gray-MD
✂	926	Gray Green-MD	931	Antique Blue-MD
☾	926	Gray Green-MD	317	Pewter Gray
	648	Beaver Gray-LT	993	Aquamarine-LT
⊠	648	Beaver Gray-LT	598	Turquoise-LT
↓	414	Steel Gray-DK	932	Antique Blue-LT
⬆	452	Shell Gray-MD	928	Gray Green-VY LT
⬇	415	Pearl Gray	928	Gray Green-VY LT
?	927	Gray Green-LT	928	Gray Green-VY LT
5	3743	Antique Violet-VY LT	415	Pearl Gray
0	3743	Antique Violet-VY LT	3753	Antique Blue-UL VY LT
8	3752	Antique Blue-VY LT	3753	Antique Blue-UL VY LT
φ	3781	Mocha Brown-DK	3787	Brown Gray-DK
◆	823	Navy Blue-DK	839	Beige Brown-DK
⊗	793	Cornflower Blue-MD	927	Gray Green-LT
✂	317	Pewter Gray	503	Blue Green-MD
×	340	Blue Violet-MD	931	Antique Blue-MD
⊕	415	Pearl Gray	932	Antique Blue-LT
☛	823	Navy Blue-DK	935	Avocado Green-DK
⊕	413	Pewter Gray-DK	930	Antique Blue-DK
//	317	Pewter Gray	3022	Brown Gray-MD
†	3362	Pine Green-DK	3021	Brown Gray-VY DK
⊕	647	Beaver Gray-MD	414	Steel Gray-DK
■	645	Beaver Gray-VY DK	3768	Gray Green-DK
●	938	Coffee Brown-UL DK	823	Navy Blue-DK
8	823	Navy Blue-DK	902	Garnet-VY DK
0	902	Garnet-VY DK	938	Coffee Brown-UL DK
☛	3041	Antique Violet-MD	223	Shell Pink-LT
◀	3041	Antique Violet-MD	3861	Cocoa-LT
✦	3721	Shell Pink-DK	223	Shell Pink-LT
●	902	Garnet-VY DK	3371	Black Brown
∞	3740	Antique Violet-DK	844	Beaver Brown-UL DK
▼	3802	Antique Mauve-VY DK	938	Coffee Brown-UL DK
#	3836	Grape-LT	318	Steel Gray-LT
	747	Sky Blue-VY LT	762	Pearl Gray-VY LT
◇	318	Steel Gray-LT	927	Gray Green-LT
..	452	Shell Gray-MD	318	Steel Gray-LT
7	928	Gray Green-VY LT	778	Antique Mauve-VY LT
∇	928	Gray Green-VY LT	3836	Grape-LT
↑	963	Dusty Rose-UL VY LT	3756	Baby Blue-UL VY LT
<	963	Dusty Rose-UL VY LT	762	Pearl Gray-VY LT
⊕	762	Pearl Gray-VY LT	3743	Antique Violet-VY LT
=	3743	Antique Violet-VY LT	963	Dusty Rose-UL VY LT
/	3743	Antique Violet-VY LT	3716	Dusty Rose-VY LT
↑	3836	Grape-LT	415	Pearl Gray
::	3743	Antique Violet-VY LT	3836	Grape-LT

Copyright (c) 2007-, Golden Kite (Golden K.)

Internet: www.goldenkite.com

e-mail: info@goldenkite.com

⌘	415	Pearl Gray	3716	Dusty Rose-VY LT
⊕	3721	Shell Pink-DK	3733	Dusty Rose
⊙	3861	Cocoa-LT	3733	Dusty Rose
⌚	3733	Dusty Rose	3836	Grape-LT
▷	747	Sky Blue-VY LT	3753	Antique Blue-UL VY LT
◁	3733	Dusty Rose	928	Gray Green-VY LT
✱	221	Shell Pink-VY DK	3721	Shell Pink-DK
⌘	902	Garnet-VY DK	221	Shell Pink-VY DK
⊙	3733	Dusty Rose	3041	Antique Violet-MD
⌚	732	Olive Green	3347	Yellow Green-MD
⌚	3347	Yellow Green-MD	471	Avocado Green-VY LT
✱	645	Beaver Gray-VY DK	502	Blue Green
⊙	469	Avocado Green	3781	Mocha Brown-DK
=	3721	Shell Pink-DK	3790	Beige Gray-UL DK
⊕	471	Avocado Green-VY LT	732	Olive Green
☾	3346	Hunter Green	535	Ash Gray-VY LT
⌚	522	Fern Green	3816	Celadon Green-MD
⌚	503	Blue Green-MD	647	Beaver Gray-MD
⌚	503	Blue Green-MD	563	Jade-LT
⌚	926	Gray Green-MD	930	Antique Blue-DK
⌚	3362	Pine Green-DK	844	Beaver Brown-UL DK
○	523	Fern Green-LT	563	Jade-LT
⊕	502	Blue Green	3347	Yellow Green-MD
★	503	Blue Green-MD	535	Ash Gray-VY LT
⌚	739	Tan-UL VY LT	3024	Brown Gray-VY LT
◇	3024	Brown Gray-VY LT	648	Beaver Gray-LT
—	3864	Mocha Beige-LT	3348	Yellow Green-LT
⌚	3348	Yellow Green-LT	738	Tan-VY LT
⌚	739	Tan-UL VY LT	3078	Golden Yellow-VY LT
✱	3041	Antique Violet-MD	3740	Antique Violet-DK
▲	3740	Antique Violet-DK	451	Shell Gray-DK
∨	745	Yellow-LT Pale	754	Peach-LT
⌚	3064	Desert Sand	435	Brown-VY LT
⌚	503	Blue Green-MD	3041	Antique Violet-MD
⌚	3861	Cocoa-LT	3790	Beige Gray-UL DK
⌚	451	Shell Gray-DK	3032	Mocha Brown-MD
⌚	3802	Antique Mauve-VY DK	3790	Beige Gray-UL DK
z	3347	Yellow Green-MD	522	Fern Green
⌚	502	Blue Green	522	Fern Green
⌚	435	Brown-VY LT	3032	Mocha Brown-MD
●	3787	Brown Gray-DK	3860	Cocoa
⌚	844	Beaver Brown-UL DK	902	Garnet-VY DK
▲	3781	Mocha Brown-DK	3362	Pine Green-DK
✱	645	Beaver Gray-VY DK	3347	Yellow Green-MD
▲	407	Desert Sand-DK	3032	Mocha Brown-MD
✓	422	Hazelnut Brown-LT	3064	Desert Sand
3	3046	Yellow Beige-MD	422	Hazelnut Brown-LT
△	738	Tan-VY LT	445	Lemon-LT
⌚	3861	Cocoa-LT	3864	Mocha Beige-LT
⌚	3861	Cocoa-LT	3740	Antique Violet-DK
▲	317	Pewter Gray	451	Shell Gray-DK
▲	645	Beaver Gray-VY DK	317	Pewter Gray
⌚	3802	Antique Mauve-VY DK	3740	Antique Violet-DK
⌚	3799	Pewter Gray-VY DK	902	Garnet-VY DK
⌚	3799	Pewter Gray-VY DK	3362	Pine Green-DK
○	3362	Pine Green-DK	3346	Hunter Green

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	56	22	53	20	48	18
223	Shell Pink-LT	98	38	94	37	84	33
224	Shell Pink-VY LT	36	14	35	13	31	12
310	Black	232	91	221	87	199	78
315	Antique Mauve-VY DK	19	7	18	7	16	6
317	Pewter Gray	331	130	315	124	284	111
318	Steel Gray-LT	221	87	211	83	190	74
334	Baby Blue-MD	3	1	2	1	2	1
340	Blue Violet-MD	6	2	6	2	5	1
370	Mustard-MD	12	4	12	4	10	3
407	Desert Sand-DK	40	15	38	14	34	13
413	Pewter Gray-DK	114	44	109	42	98	38
414	Steel Gray-DK	639	251	608	239	547	215
415	Pearl Gray	633	249	603	237	543	213
422	Hazelnut Brown-LT	30	11	29	11	26	10
435	Brown-VY LT	34	13	32	12	29	11
437	Tan-LT	37	14	35	13	31	12
445	Lemon-LT	7	2	6	2	6	2
451	Shell Gray-DK	286	112	273	107	245	96
452	Shell Gray-MD	387	152	369	145	332	130
469	Avocado Green	13	5	12	4	11	4
471	Avocado Green-VY LT	36	14	35	13	31	12
502	Blue Green	191	75	182	71	164	64
503	Blue Green-MD	496	195	473	186	425	167
522	Fern Green	264	103	252	99	226	88
523	Fern Green-LT	108	42	102	40	92	36
535	Ash Gray-VY LT	333	131	317	124	286	112
543	Beige Brown-UL VY LT	15	5	14	5	13	5
563	Jade-LT	84	33	80	31	72	28
598	Turquoise-LT	84	33	80	31	72	28
613	Drab Brown-VY LT	152	59	144	56	130	51
645	Beaver Gray-VY DK	413	162	393	154	354	139
646	Beaver Gray-DK	167	65	159	62	143	56
647	Beaver Gray-MD	407	160	387	152	349	137
648	Beaver Gray-LT	386	151	367	144	330	129
677	Old Gold-VY LT	19	7	18	7	16	6
712	Cream	109	42	104	40	93	36
732	Olive Green	31	12	30	11	27	10
738	Tan-VY LT	96	37	91	35	82	32
739	Tan-UL VY LT	173	68	165	64	148	58
745	Yellow-LT Pale	39	15	37	14	33	12
746	Off White	61	24	58	22	52	20
747	Sky Blue-VY LT	148	58	140	55	126	49
754	Peach-LT	17	6	16	6	14	5
758	Terra Cotta-VY LT	35	13	33	12	30	11
762	Pearl Gray-VY LT	631	248	601	236	541	212
778	Antique Mauve-VY LT	54	21	52	20	47	18
793	Cornflower Blue-MD	39	15	37	14	33	12
819	Baby Pink-LT	103	40	98	38	89	35
823	Navy Blue-DK	476	187	454	178	408	160
839	Beige Brown-DK	97	38	92	36	83	32
844	Beaver Brown-UL DK	1244	489	1185	466	1067	420
902	Garnet-VY DK	514	202	489	192	440	173
926	Gray Green-MD	197	77	188	74	169	66

Copyright (c) 2007-, Golden Kite (Golden K.)

Internet: www.goldenkite.com

e-mail: info@goldenkite.com

927	Gray Green-LT	438	172	417	164	375	147
928	Gray Green-VY LT	348	137	332	130	299	117
930	Antique Blue-DK	68	26	65	25	58	22
931	Antique Blue-MD	36	14	35	13	31	12
932	Antique Blue-LT	290	114	276	108	248	97
934	Black Avocado Green	451	177	429	168	386	151
935	Avocado Green-DK	326	128	310	122	279	109
938	Coffee Brown-UL DK	852	335	811	319	730	287
948	Peach-VY LT	58	22	55	21	49	19
950	Desert Sand-LT	47	18	45	17	40	15
963	Dusty Rose-UL VY LT	278	109	265	104	238	93
993	Aquamarine-LT	42	16	40	15	36	14
3011	Khaki Green-DK	22	8	21	8	19	7
3013	Khaki Green-LT	20	7	19	7	17	6
3021	Brown Gray-VY DK	82	32	78	30	70	27
3022	Brown Gray-MD	66	25	63	24	57	22
3024	Brown Gray-VY LT	393	154	375	147	337	132
3032	Mocha Brown-MD	181	71	172	67	155	61
3041	Antique Violet-MD	327	128	312	122	281	110
3046	Yellow Beige-MD	24	9	23	9	20	7
3064	Desert Sand	89	35	84	33	76	29
3072	Beaver Gray-VY LT	311	122	297	116	267	105
3078	Golden Yellow-VY LT	77	30	73	28	66	25
3346	Hunter Green	150	59	142	55	128	50
3347	Yellow Green-MD	221	87	211	83	190	74
3348	Yellow Green-LT	65	25	62	24	56	22
3362	Pine Green-DK	373	146	355	139	319	125
3364	Pine Green	26	10	25	9	22	8
3371	Black Brown	699	275	666	262	599	235
3713	Salmon-VY LT	27	10	26	10	23	9
3716	Dusty Rose-VY LT	144	56	137	53	123	48
3721	Shell Pink-DK	139	54	132	51	119	46
3726	Antique Mauve-DK	57	22	54	21	49	19
3733	Dusty Rose	149	58	142	55	128	50
3740	Antique Violet-DK	414	162	395	155	355	139
3743	Antique Violet-VY LT	845	332	805	316	724	285
3752	Antique Blue-VY LT	146	57	139	54	125	49
3753	Antique Blue-UL VY LT	427	168	406	159	366	144
3756	Baby Blue-UL VY LT	476	187	453	178	408	160
3768	Gray Green-DK	141	55	134	52	120	47
3770	Tawny-VY LT	58	22	56	22	50	19
3772	Desert Sand-VY DK	8	3	8	3	7	2
3781	Mocha Brown-DK	231	90	220	86	198	77
3787	Brown Gray-DK	215	84	204	80	184	72
3790	Beige Gray-UL DK	172	67	164	64	148	58
3799	Pewter Gray-VY DK	839	330	799	314	719	283
3802	Antique Mauve-VY DK	373	146	356	140	320	125
3816	Celadon Green-MD	89	35	85	33	77	30
3836	Grape-LT	237	93	226	88	203	79
3856	Mahogany-UL VY LT	37	14	36	14	32	12
3860	Cocoa	140	55	134	52	120	47
3861	Cocoa-LT	272	107	259	101	233	91
3864	Mocha Beige-LT	207	81	197	77	177	69
3865	Winter White	485	190	462	181	416	163
3866	Mocha Brown-UL VY LT	226	88	215	84	194	76
Ecru	Ecru	112	44	107	42	96	37

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	86	32	72	27	36	14
223	Shell Pink-LT	151	59	126	50	63	25
224	Shell Pink-VY LT	56	22	47	18	23	9
310	Black	358	140	299	117	149	59
315	Antique Mauve-VY DK	29	11	24	9	12	5
317	Pewter Gray	511	200	426	167	213	83
318	Steel Gray-LT	342	133	285	111	143	56
334	Baby Blue-MD	4	2	3	2	2	1
340	Blue Violet-MD	9	2	8	2	4	1
370	Mustard-MD	18	5	15	5	8	2
407	Desert Sand-DK	61	23	51	20	26	10
413	Pewter Gray-DK	176	68	147	57	74	29
414	Steel Gray-DK	985	387	821	323	410	161
415	Pearl Gray	977	383	815	320	407	160
422	Hazelnut Brown-LT	47	18	39	15	20	8
435	Brown-VY LT	52	20	44	17	22	8
437	Tan-LT	56	22	47	18	23	9
445	Lemon-LT	11	4	9	3	5	2
451	Shell Gray-DK	441	173	368	144	184	72
452	Shell Gray-MD	598	234	498	195	249	98
469	Avocado Green	20	7	17	6	8	3
471	Avocado Green-VY LT	56	22	47	18	23	9
502	Blue Green	295	115	246	96	123	48
503	Blue Green-MD	765	301	638	251	319	125
522	Fern Green	407	158	339	132	170	66
523	Fern Green-LT	166	65	138	54	69	27
535	Ash Gray-VY LT	515	202	429	168	215	84
543	Beige Brown-UL VY LT	23	9	20	8	10	4
563	Jade-LT	130	50	108	42	54	21
598	Turquoise-LT	130	50	108	42	54	21
613	Drab Brown-VY LT	234	92	195	77	98	38
645	Beaver Gray-VY DK	637	250	531	209	266	104
646	Beaver Gray-DK	257	101	215	84	107	42
647	Beaver Gray-MD	628	247	524	206	262	103
648	Beaver Gray-LT	594	232	495	194	248	97
677	Old Gold-VY LT	29	11	24	9	12	5
712	Cream	167	65	140	54	70	27
732	Olive Green	49	18	41	15	20	8
738	Tan-VY LT	148	58	123	48	62	24
739	Tan-UL VY LT	266	104	222	87	111	44
745	Yellow-LT Pale	59	22	50	18	25	9
746	Off White	94	36	78	30	39	15
747	Sky Blue-VY LT	227	88	189	74	95	37
754	Peach-LT	25	9	21	8	11	4
758	Terra Cotta-VY LT	54	20	45	17	23	8
762	Pearl Gray-VY LT	974	382	812	318	406	159
778	Antique Mauve-VY LT	85	32	71	27	35	14
793	Cornflower Blue-MD	59	22	50	18	25	9
819	Baby Pink-LT	160	63	134	53	67	26
823	Navy Blue-DK	734	288	612	240	306	120
839	Beige Brown-DK	149	58	125	48	62	24
844	Beaver Brown-UL DK	1921	756	1601	630	800	315
902	Garnet-VY DK	792	311	660	260	330	130
926	Gray Green-MD	304	119	254	99	127	50

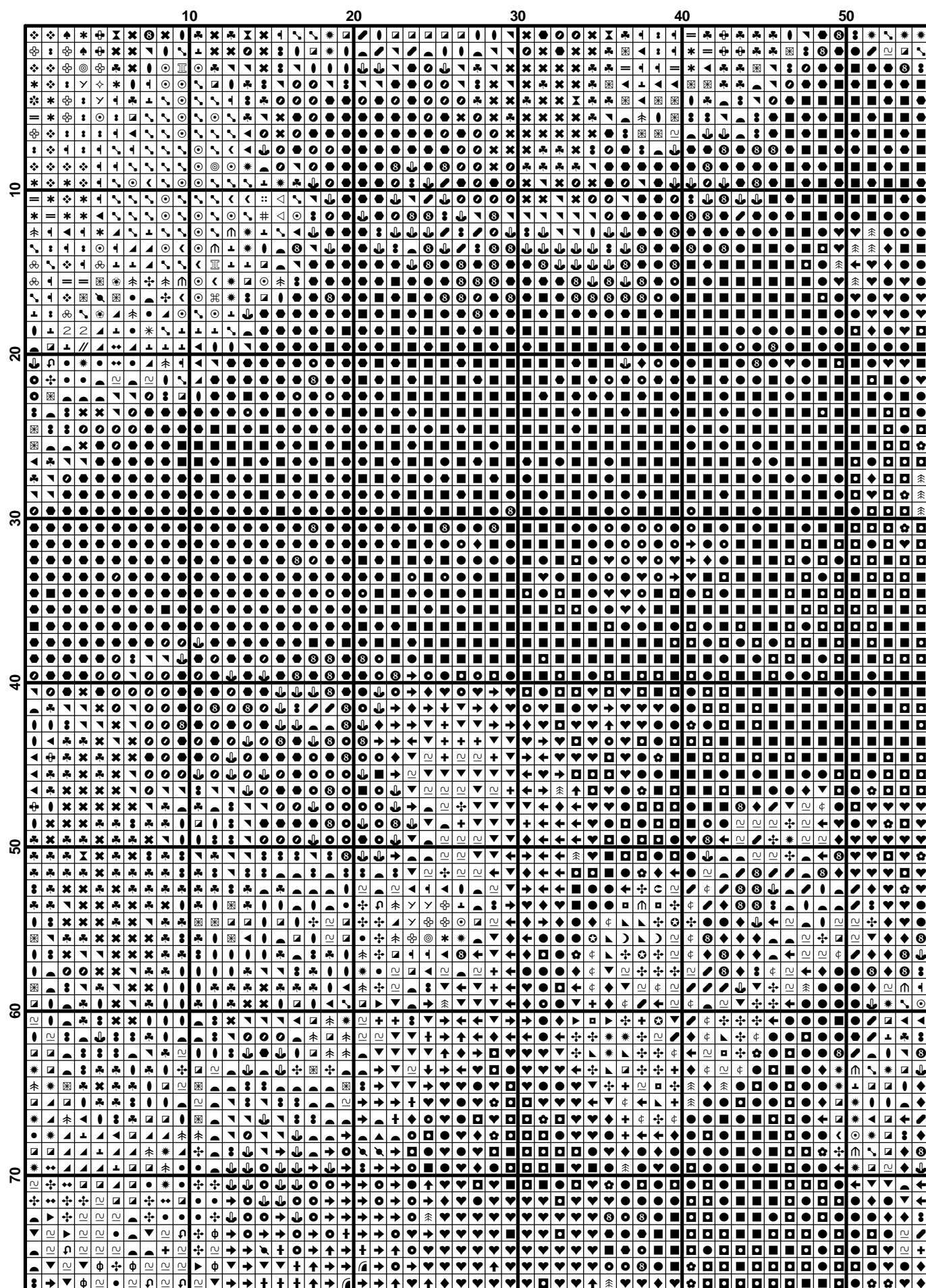
927	Gray Green-LT	675	265	563	221	281	110
928	Gray Green-VY LT	538	211	449	176	224	88
930	Antique Blue-DK	104	40	87	33	44	17
931	Antique Blue-MD	56	22	47	18	23	9
932	Antique Blue-LT	446	175	372	146	186	73
934	Black Avocado Green	695	272	579	227	290	113
935	Avocado Green-DK	502	196	419	164	209	82
938	Coffee Brown-UL DK	1314	517	1095	431	548	215
948	Peach-VY LT	88	34	74	29	37	14
950	Desert Sand-LT	72	27	60	23	30	11
963	Dusty Rose-UL VY LT	428	167	357	140	179	70
993	Aquamarine-LT	65	25	54	21	27	11
3011	Khaki Green-DK	34	13	29	11	14	5
3013	Khaki Green-LT	31	11	26	9	13	5
3021	Brown Gray-VY DK	126	49	105	41	53	20
3022	Brown Gray-MD	103	40	86	33	43	17
3024	Brown Gray-VY LT	607	238	506	198	253	99
3032	Mocha Brown-MD	279	110	233	92	116	46
3041	Antique Violet-MD	506	198	422	165	211	83
3046	Yellow Beige-MD	36	13	30	11	15	5
3064	Desert Sand	137	52	114	44	57	22
3072	Beaver Gray-VY LT	481	189	401	158	200	79
3078	Golden Yellow-VY LT	119	45	99	38	50	19
3346	Hunter Green	230	90	192	75	96	38
3347	Yellow Green-MD	342	133	285	111	143	56
3348	Yellow Green-LT	101	40	84	33	42	17
3362	Pine Green-DK	574	225	479	188	239	94
3364	Pine Green	40	14	33	12	17	6
3371	Black Brown	1078	423	899	353	449	176
3713	Salmon-VY LT	41	16	35	14	17	7
3716	Dusty Rose-VY LT	221	86	185	72	92	36
3721	Shell Pink-DK	214	83	179	69	89	35
3726	Antique Mauve-DK	88	34	74	29	37	14
3733	Dusty Rose	230	90	192	75	96	38
3740	Antique Violet-DK	639	250	533	209	266	104
3743	Antique Violet-VY LT	1303	513	1086	428	543	214
3752	Antique Blue-VY LT	225	88	188	74	94	37
3753	Antique Blue-UL VY LT	659	259	549	216	275	108
3756	Baby Blue-UL VY LT	734	288	612	240	306	120
3768	Gray Green-DK	216	85	180	71	90	35
3770	Tawny-VY LT	90	34	75	29	38	14
3772	Desert Sand-VY DK	13	4	11	3	5	2
3781	Mocha Brown-DK	356	139	297	116	149	58
3787	Brown Gray-DK	331	130	276	108	138	54
3790	Beige Gray-UL DK	266	104	222	87	111	44
3799	Pewter Gray-VY DK	1294	509	1079	425	539	212
3802	Antique Mauve-VY DK	576	225	480	188	240	94
3816	Celadon Green-MD	139	54	116	45	58	23
3836	Grape-LT	365	142	305	119	152	59
3856	Mahogany-UL VY LT	58	22	48	18	24	9
3860	Cocoa	216	85	180	71	90	35
3861	Cocoa-LT	419	164	350	137	175	68
3864	Mocha Beige-LT	319	124	266	104	133	52
3865	Winter White	749	293	624	245	312	122
3866	Mocha Brown-UL VY LT	349	137	291	114	146	57
Ecru	Ecru	173	67	144	56	72	28

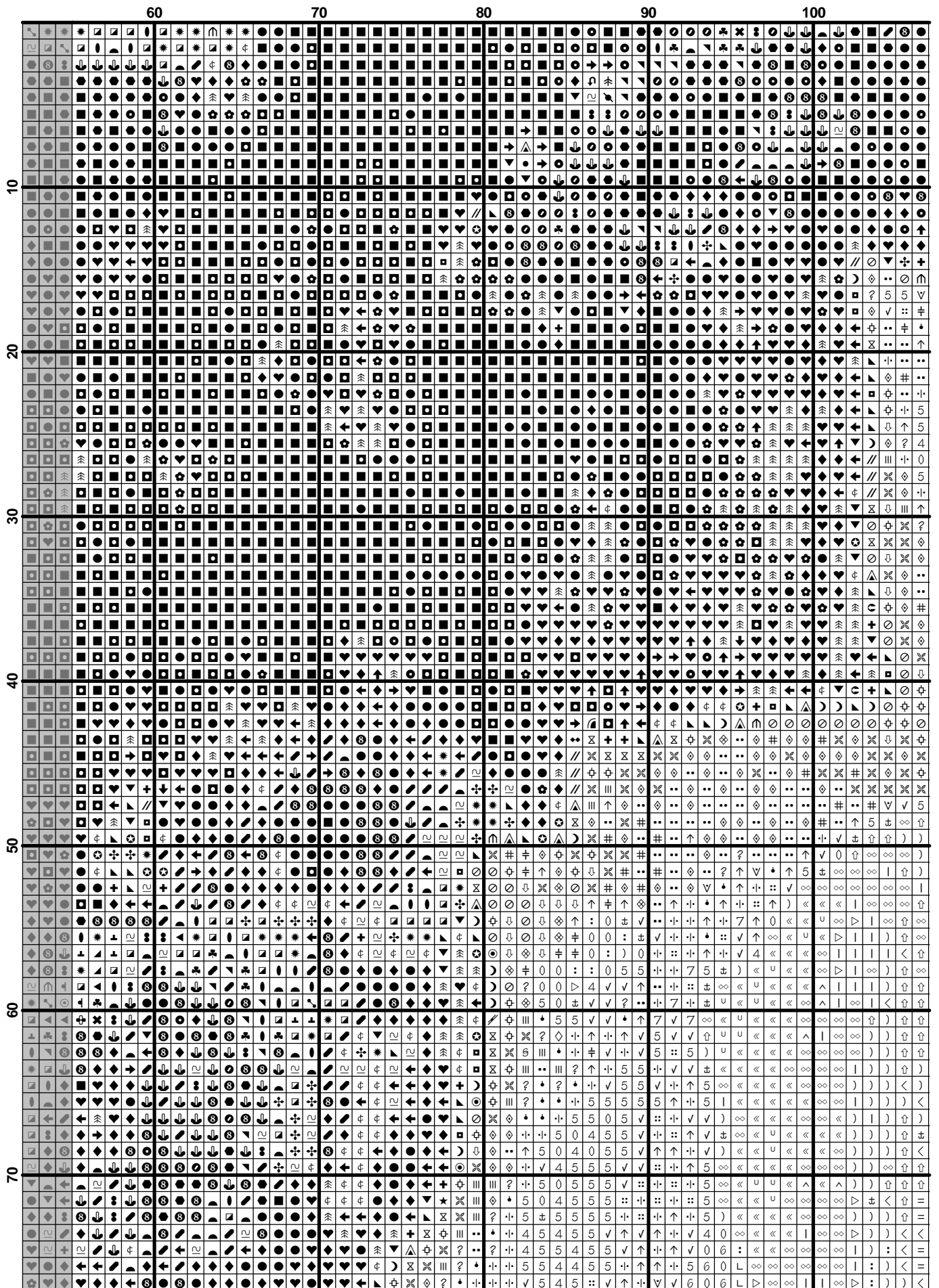
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	35	13	33	12	32	12
223	Shell Pink-LT	60	24	58	23	56	22
224	Shell Pink-VY LT	22	9	21	8	21	8
310	Black	143	56	138	54	133	52
315	Antique Mauve-VY DK	12	4	11	4	11	4
317	Pewter Gray	204	80	197	77	189	74
318	Steel Gray-LT	137	53	132	51	127	49
334	Baby Blue-MD	1	1	1	1	1	1
340	Blue Violet-MD	4	1	3	1	3	1
370	Mustard-MD	7	2	7	2	7	2
407	Desert Sand-DK	24	9	24	9	23	9
413	Pewter Gray-DK	71	27	68	26	65	25
414	Steel Gray-DK	394	155	379	149	365	143
415	Pearl Gray	391	153	376	147	362	142
422	Hazelnut Brown-LT	19	7	18	7	17	7
435	Brown-VY LT	21	8	20	8	19	7
437	Tan-LT	22	9	21	8	21	8
445	Lemon-LT	4	1	4	1	4	1
451	Shell Gray-DK	176	69	170	66	163	64
452	Shell Gray-MD	239	94	230	90	221	87
469	Avocado Green	8	3	8	3	7	3
471	Avocado Green-VY LT	22	9	21	8	21	8
502	Blue Green	118	46	114	44	109	43
503	Blue Green-MD	306	120	294	116	283	111
522	Fern Green	163	63	156	61	151	59
523	Fern Green-LT	66	26	64	25	61	24
535	Ash Gray-VY LT	206	81	198	78	191	75
543	Beige Brown-UL VY LT	9	4	9	3	9	3
563	Jade-LT	52	20	50	19	48	19
598	Turquoise-LT	52	20	50	19	48	19
613	Drab Brown-VY LT	94	37	90	35	87	34
645	Beaver Gray-VY DK	255	100	245	96	236	93
646	Beaver Gray-DK	103	40	99	39	95	37
647	Beaver Gray-MD	251	99	242	95	233	91
648	Beaver Gray-LT	238	93	228	89	220	86
677	Old Gold-VY LT	12	4	11	4	11	4
712	Cream	67	26	64	25	62	24
732	Olive Green	19	7	19	7	18	7
738	Tan-VY LT	59	23	57	22	55	21
739	Tan-UL VY LT	107	42	102	40	99	39
745	Yellow-LT Pale	24	9	23	8	22	8
746	Off White	37	14	36	14	35	13
747	Sky Blue-VY LT	91	35	87	34	84	33
754	Peach-LT	10	4	10	3	9	3
758	Terra Cotta-VY LT	22	8	21	8	20	7
762	Pearl Gray-VY LT	390	153	375	147	361	141
778	Antique Mauve-VY LT	34	13	33	12	31	12
793	Cornflower Blue-MD	24	9	23	8	22	8
819	Baby Pink-LT	64	25	62	24	59	23
823	Navy Blue-DK	294	115	282	111	272	107
839	Beige Brown-DK	60	23	57	22	55	21
844	Beaver Brown-UL DK	768	302	739	291	711	280
902	Garnet-VY DK	317	125	305	120	293	115
926	Gray Green-MD	122	48	117	46	113	44

927	Gray Green-LT	270	106	260	102	250	98
928	Gray Green-VY LT	215	84	207	81	199	78
930	Antique Blue-DK	42	16	40	15	39	15
931	Antique Blue-MD	22	9	21	8	21	8
932	Antique Blue-LT	179	70	172	67	165	65
934	Black Avocado Green	278	109	267	105	257	101
935	Avocado Green-DK	201	78	193	75	186	73
938	Coffee Brown-UL DK	526	207	505	199	487	191
948	Peach-VY LT	35	14	34	13	33	13
950	Desert Sand-LT	29	11	28	10	27	10
963	Dusty Rose-UL VY LT	171	67	165	64	159	62
993	Aquamarine-LT	26	10	25	10	24	9
3011	Khaki Green-DK	14	5	13	5	13	5
3013	Khaki Green-LT	12	4	12	4	11	4
3021	Brown Gray-VY DK	50	19	48	19	47	18
3022	Brown Gray-MD	41	16	39	15	38	15
3024	Brown Gray-VY LT	243	95	233	91	225	88
3032	Mocha Brown-MD	112	44	107	42	103	41
3041	Antique Violet-MD	202	79	195	76	187	73
3046	Yellow Beige-MD	14	5	14	5	13	5
3064	Desert Sand	55	21	53	20	51	19
3072	Beaver Gray-VY LT	192	76	185	73	178	70
3078	Golden Yellow-VY LT	48	18	46	17	44	17
3346	Hunter Green	92	36	89	35	85	33
3347	Yellow Green-MD	137	53	132	51	127	49
3348	Yellow Green-LT	40	16	39	15	37	15
3362	Pine Green-DK	230	90	221	87	213	83
3364	Pine Green	16	6	15	6	15	5
3371	Black Brown	431	169	415	163	399	157
3713	Salmon-VY LT	17	6	16	6	15	6
3716	Dusty Rose-VY LT	89	35	85	33	82	32
3721	Shell Pink-DK	86	33	82	32	79	31
3726	Antique Mauve-DK	35	14	34	13	33	13
3733	Dusty Rose	92	36	89	35	85	33
3740	Antique Violet-DK	256	100	246	96	237	93
3743	Antique Violet-VY LT	521	205	501	197	483	190
3752	Antique Blue-VY LT	90	35	87	34	83	33
3753	Antique Blue-UL VY LT	264	104	253	100	244	96
3756	Baby Blue-UL VY LT	294	115	282	111	272	107
3768	Gray Green-DK	86	34	83	33	80	31
3770	Tawny-VY LT	36	14	35	13	33	13
3772	Desert Sand-VY DK	5	1	5	1	5	1
3781	Mocha Brown-DK	143	55	137	53	132	51
3787	Brown Gray-DK	132	52	127	50	123	48
3790	Beige Gray-UL DK	107	42	102	40	99	39
3799	Pewter Gray-VY DK	518	204	498	196	479	189
3802	Antique Mauve-VY DK	230	90	222	87	213	83
3816	Celadon Green-MD	55	22	53	21	51	20
3836	Grape-LT	146	57	141	55	135	53
3856	Mahogany-UL VY LT	23	9	22	8	21	8
3860	Cocoa	86	34	83	33	80	31
3861	Cocoa-LT	168	66	161	63	155	61
3864	Mocha Beige-LT	127	50	123	48	118	46
3865	Winter White	300	117	288	113	277	109
3866	Mocha Brown-UL VY LT	140	55	134	53	129	51
Ecru	Ecru	69	27	66	26	64	25

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	31	12	29	11	27	10
223	Shell Pink-LT	54	21	50	20	47	19
224	Shell Pink-VY LT	20	8	19	7	17	7
310	Black	128	50	119	47	112	44
315	Antique Mauve-VY DK	10	4	10	4	9	3
317	Pewter Gray	183	71	170	67	160	62
318	Steel Gray-LT	122	48	114	44	107	42
334	Baby Blue-MD	1	1	1	1	1	1
340	Blue Violet-MD	3	1	3	1	3	1
370	Mustard-MD	6	2	6	2	6	2
407	Desert Sand-DK	22	8	20	8	19	7
413	Pewter Gray-DK	63	24	59	23	55	21
414	Steel Gray-DK	352	138	328	129	308	121
415	Pearl Gray	349	137	326	128	305	120
422	Hazelnut Brown-LT	17	6	16	6	15	6
435	Brown-VY LT	19	7	17	7	16	6
437	Tan-LT	20	8	19	7	17	7
445	Lemon-LT	4	1	4	1	3	1
451	Shell Gray-DK	158	62	147	58	138	54
452	Shell Gray-MD	213	84	199	78	187	73
469	Avocado Green	7	3	7	2	6	2
471	Avocado Green-VY LT	20	8	19	7	17	7
502	Blue Green	105	41	98	38	92	36
503	Blue Green-MD	273	107	255	100	239	94
522	Fern Green	145	57	136	53	127	50
523	Fern Green-LT	59	23	55	22	52	20
535	Ash Gray-VY LT	184	72	172	67	161	63
543	Beige Brown-UL VY LT	8	3	8	3	7	3
563	Jade-LT	46	18	43	17	41	16
598	Turquoise-LT	46	18	43	17	41	16
613	Drab Brown-VY LT	84	33	78	31	73	29
645	Beaver Gray-VY DK	228	89	212	83	199	78
646	Beaver Gray-DK	92	36	86	34	80	32
647	Beaver Gray-MD	224	88	209	82	196	77
648	Beaver Gray-LT	212	83	198	77	186	73
677	Old Gold-VY LT	10	4	10	4	9	3
712	Cream	60	23	56	22	52	20
732	Olive Green	17	6	16	6	15	6
738	Tan-VY LT	53	21	49	19	46	18
739	Tan-UL VY LT	95	37	89	35	83	33
745	Yellow-LT Pale	21	8	20	7	19	7
746	Off White	33	13	31	12	29	11
747	Sky Blue-VY LT	81	32	76	29	71	28
754	Peach-LT	9	3	8	3	8	3
758	Terra Cotta-VY LT	19	7	18	7	17	6
762	Pearl Gray-VY LT	348	136	325	127	304	119
778	Antique Mauve-VY LT	30	12	28	11	26	10
793	Cornflower Blue-MD	21	8	20	7	19	7
819	Baby Pink-LT	57	23	53	21	50	20
823	Navy Blue-DK	262	103	245	96	230	90
839	Beige Brown-DK	53	21	50	19	47	18
844	Beaver Brown-UL DK	686	270	640	252	600	236
902	Garnet-VY DK	283	111	264	104	248	97
926	Gray Green-MD	109	42	101	40	95	37

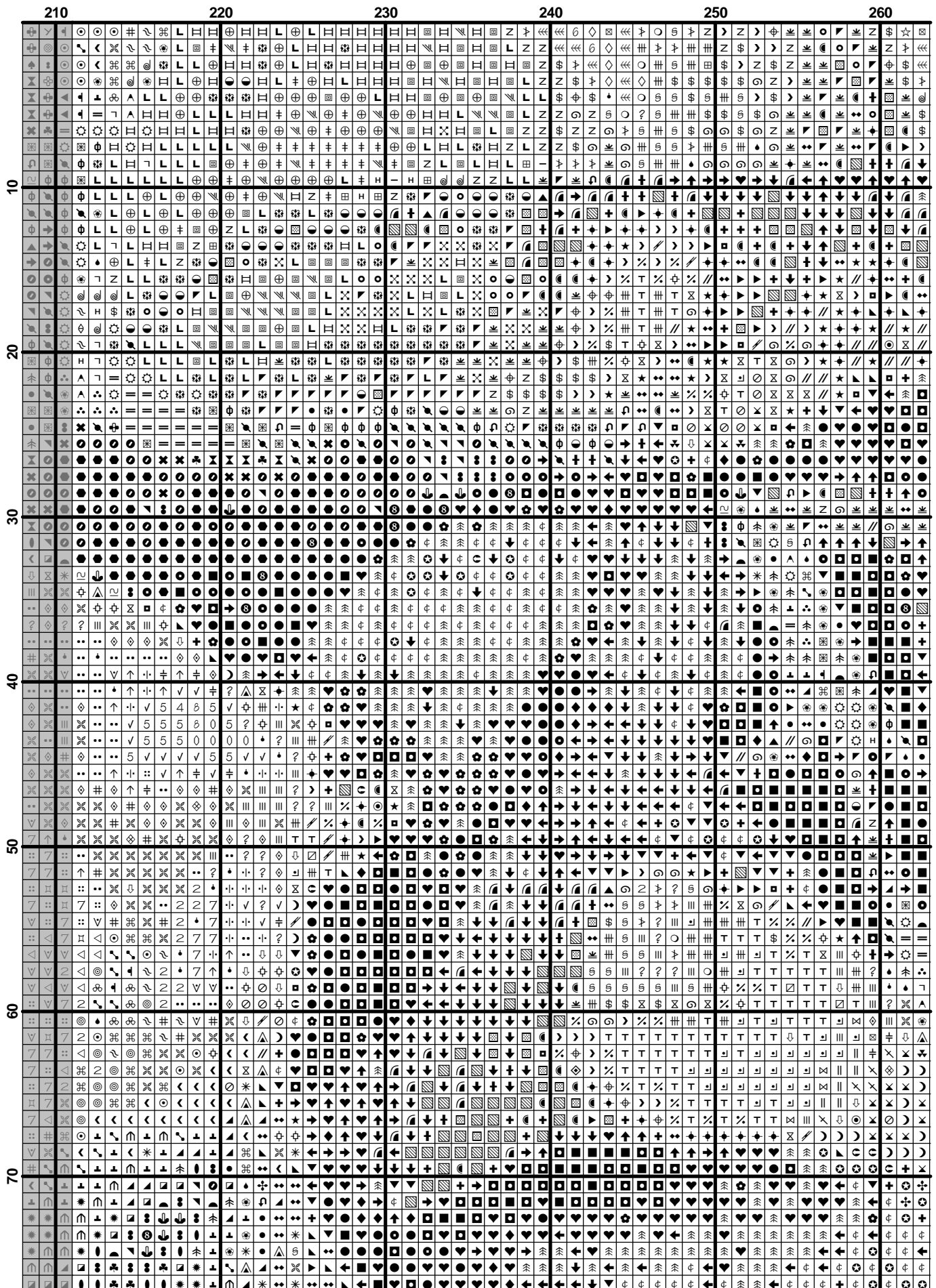
927	Gray Green-LT	241	95	225	88	211	83
928	Gray Green-VY LT	192	75	179	70	168	66
930	Antique Blue-DK	37	14	35	13	33	12
931	Antique Blue-MD	20	8	19	7	17	7
932	Antique Blue-LT	159	62	149	58	140	55
934	Black Avocado Green	248	97	232	91	217	85
935	Avocado Green-DK	179	70	167	65	157	61
938	Coffee Brown-UL DK	469	185	438	172	411	161
948	Peach-VY LT	32	12	29	11	28	11
950	Desert Sand-LT	26	10	24	9	23	8
963	Dusty Rose-UL VY LT	153	60	143	56	134	52
993	Aquamarine-LT	23	9	22	8	20	8
3011	Khaki Green-DK	12	5	11	4	11	4
3013	Khaki Green-LT	11	4	10	4	10	3
3021	Brown Gray-VY DK	45	17	42	16	39	15
3022	Brown Gray-MD	37	14	34	13	32	12
3024	Brown Gray-VY LT	217	85	202	79	190	74
3032	Mocha Brown-MD	100	39	93	37	87	34
3041	Antique Violet-MD	181	71	169	66	158	62
3046	Yellow Beige-MD	13	5	12	4	11	4
3064	Desert Sand	49	19	46	17	43	16
3072	Beaver Gray-VY LT	172	68	160	63	150	59
3078	Golden Yellow-VY LT	42	16	40	15	37	14
3346	Hunter Green	82	32	77	30	72	28
3347	Yellow Green-MD	122	48	114	44	107	42
3348	Yellow Green-LT	36	14	34	13	32	12
3362	Pine Green-DK	205	80	191	75	179	70
3364	Pine Green	14	5	13	5	12	5
3371	Black Brown	385	151	359	141	337	132
3713	Salmon-VY LT	15	6	14	5	13	5
3716	Dusty Rose-VY LT	79	31	74	29	69	27
3721	Shell Pink-DK	77	30	71	28	67	26
3726	Antique Mauve-DK	32	12	29	11	28	11
3733	Dusty Rose	82	32	77	30	72	28
3740	Antique Violet-DK	228	89	213	83	200	78
3743	Antique Violet-VY LT	465	183	434	171	407	160
3752	Antique Blue-VY LT	80	32	75	29	70	28
3753	Antique Blue-UL VY LT	235	93	220	86	206	81
3756	Baby Blue-UL VY LT	262	103	245	96	230	90
3768	Gray Green-DK	77	30	72	28	68	26
3770	Tawny-VY LT	32	12	30	11	28	11
3772	Desert Sand-VY DK	5	1	4	1	4	1
3781	Mocha Brown-DK	127	50	119	46	111	43
3787	Brown Gray-DK	118	46	110	43	104	41
3790	Beige Gray-UL DK	95	37	89	35	83	33
3799	Pewter Gray-VY DK	462	182	431	170	404	159
3802	Antique Mauve-VY DK	206	80	192	75	180	70
3816	Celadon Green-MD	50	19	46	18	43	17
3836	Grape-LT	131	51	122	47	114	44
3856	Mahogany-UL VY LT	21	8	19	7	18	7
3860	Cocoa	77	30	72	28	68	26
3861	Cocoa-LT	150	59	140	55	131	51
3864	Mocha Beige-LT	114	44	106	41	100	39
3865	Winter White	267	105	250	98	234	92
3866	Mocha Brown-UL VY LT	125	49	116	46	109	43
Ecru	Ecru	62	24	58	22	54	21

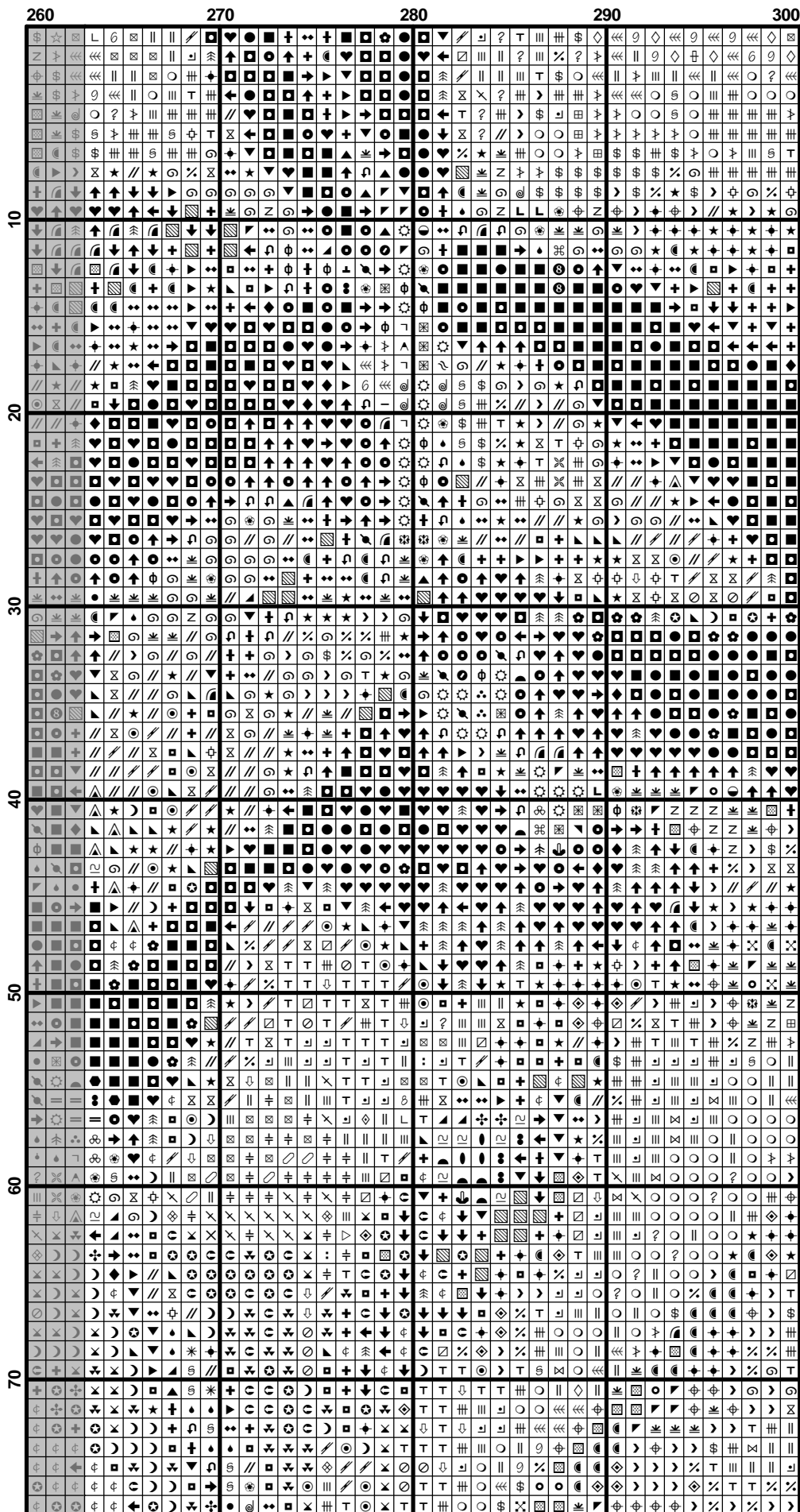


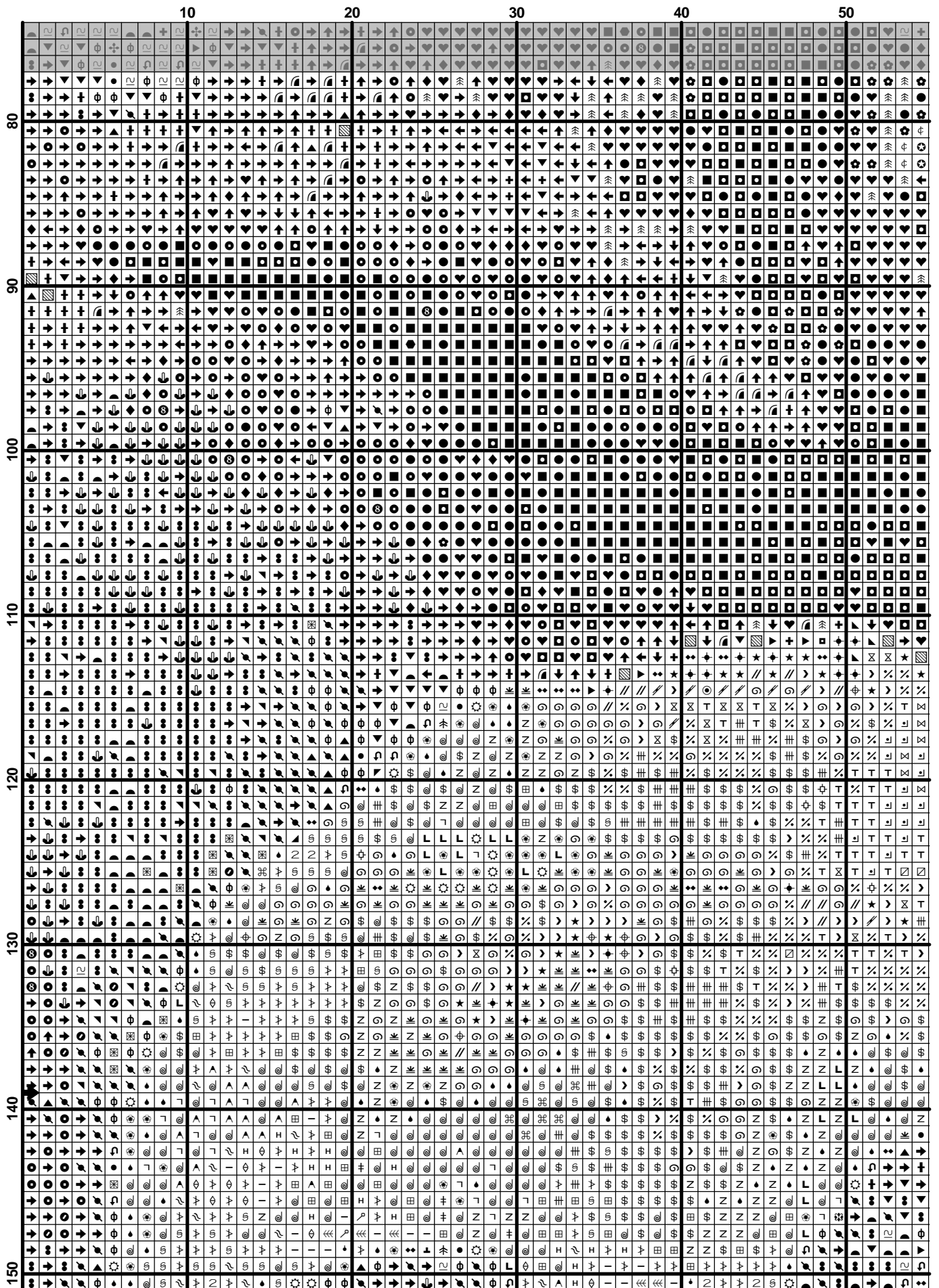


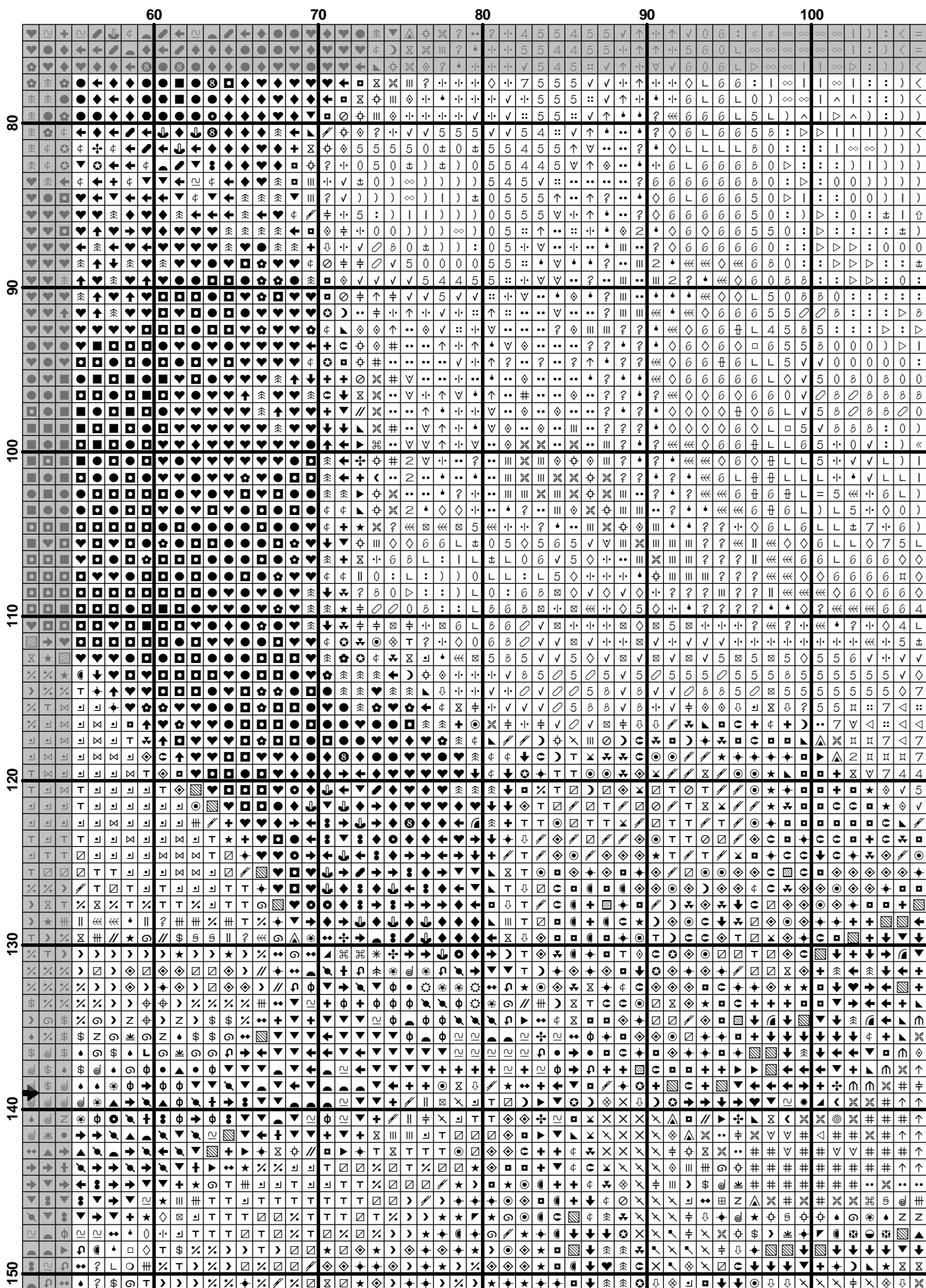
	110	120	130	140	150
10					
20					
30					
40					
50					
60					
70					

(11)



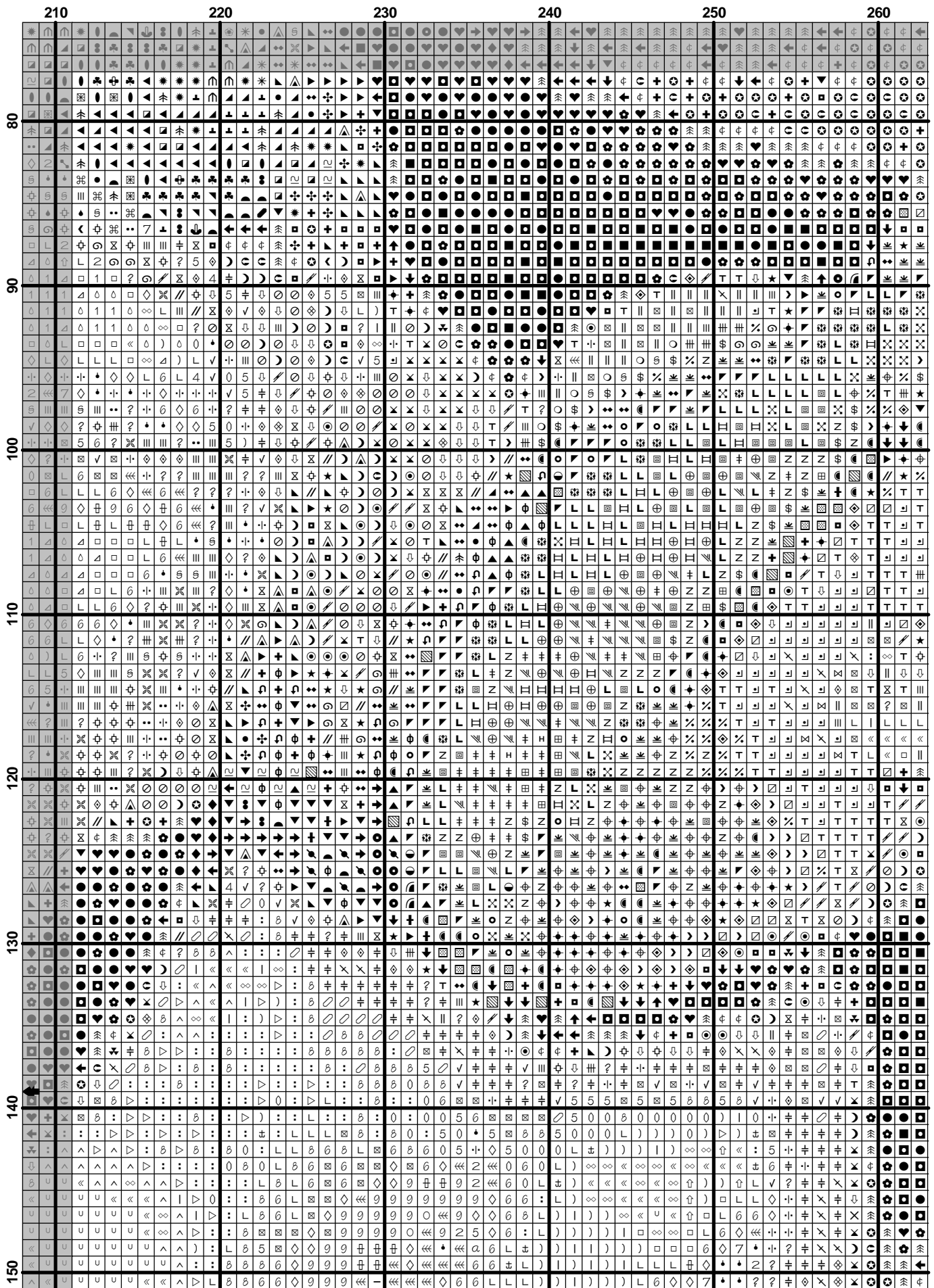


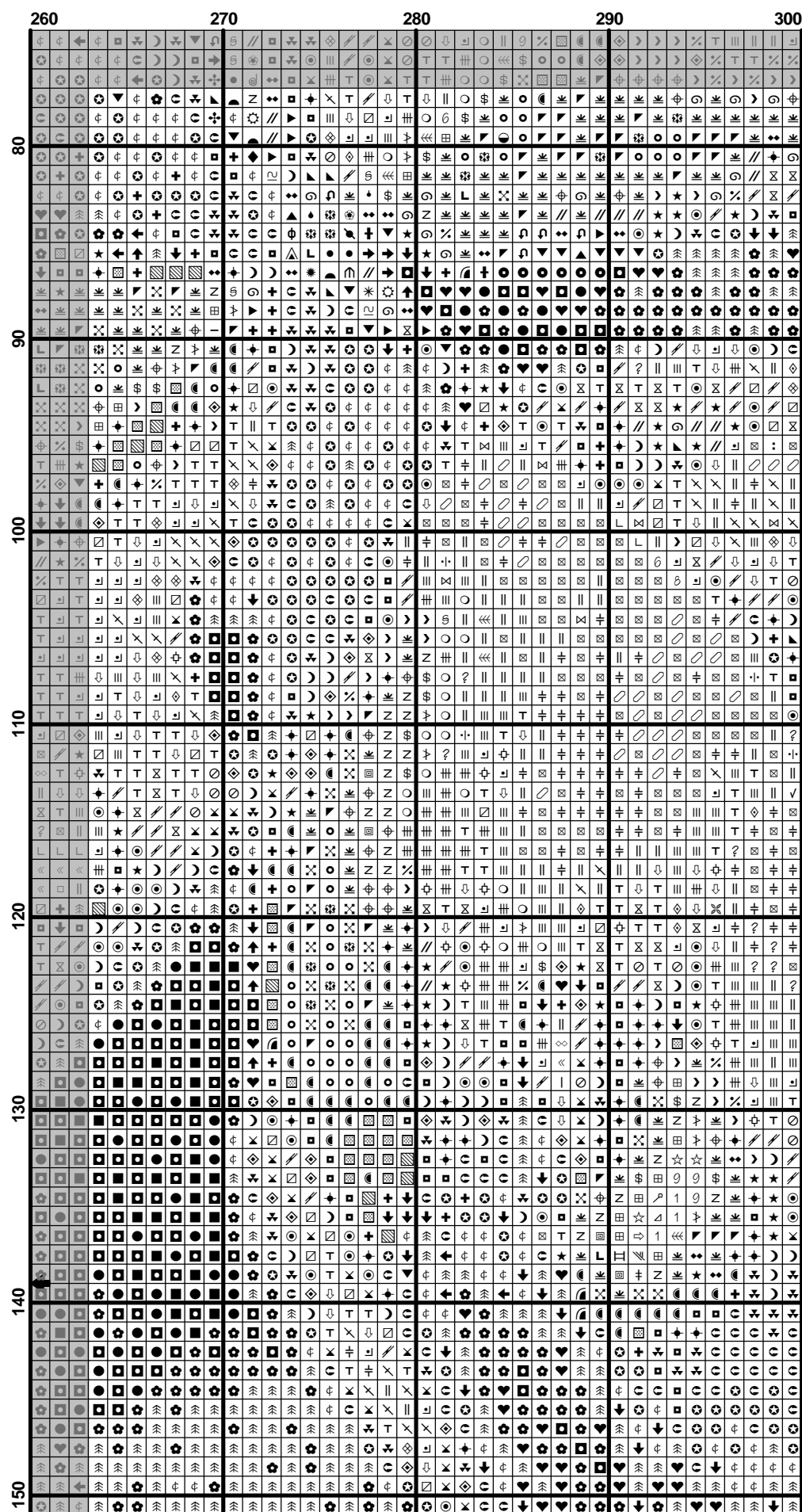


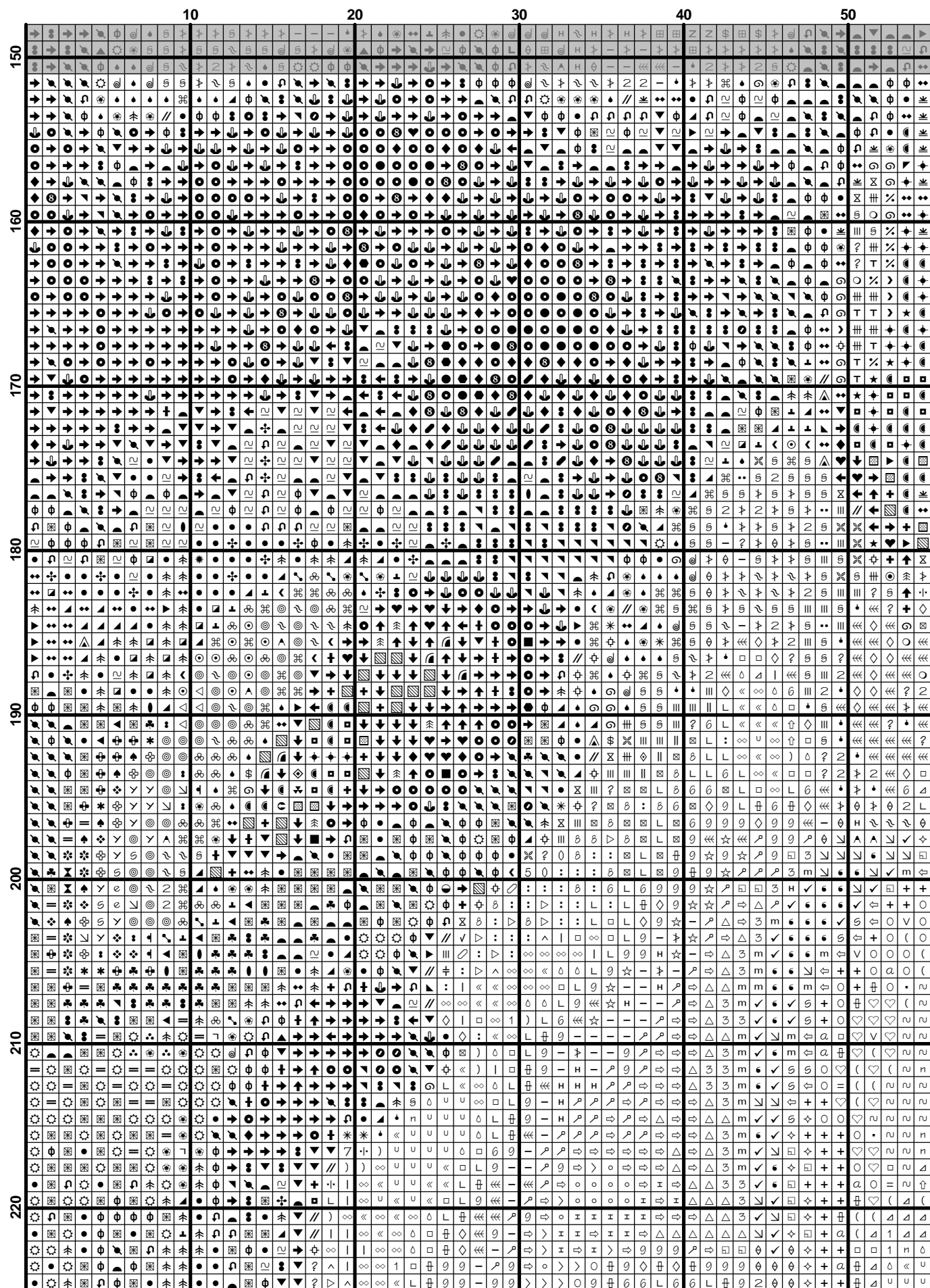


[illegible]

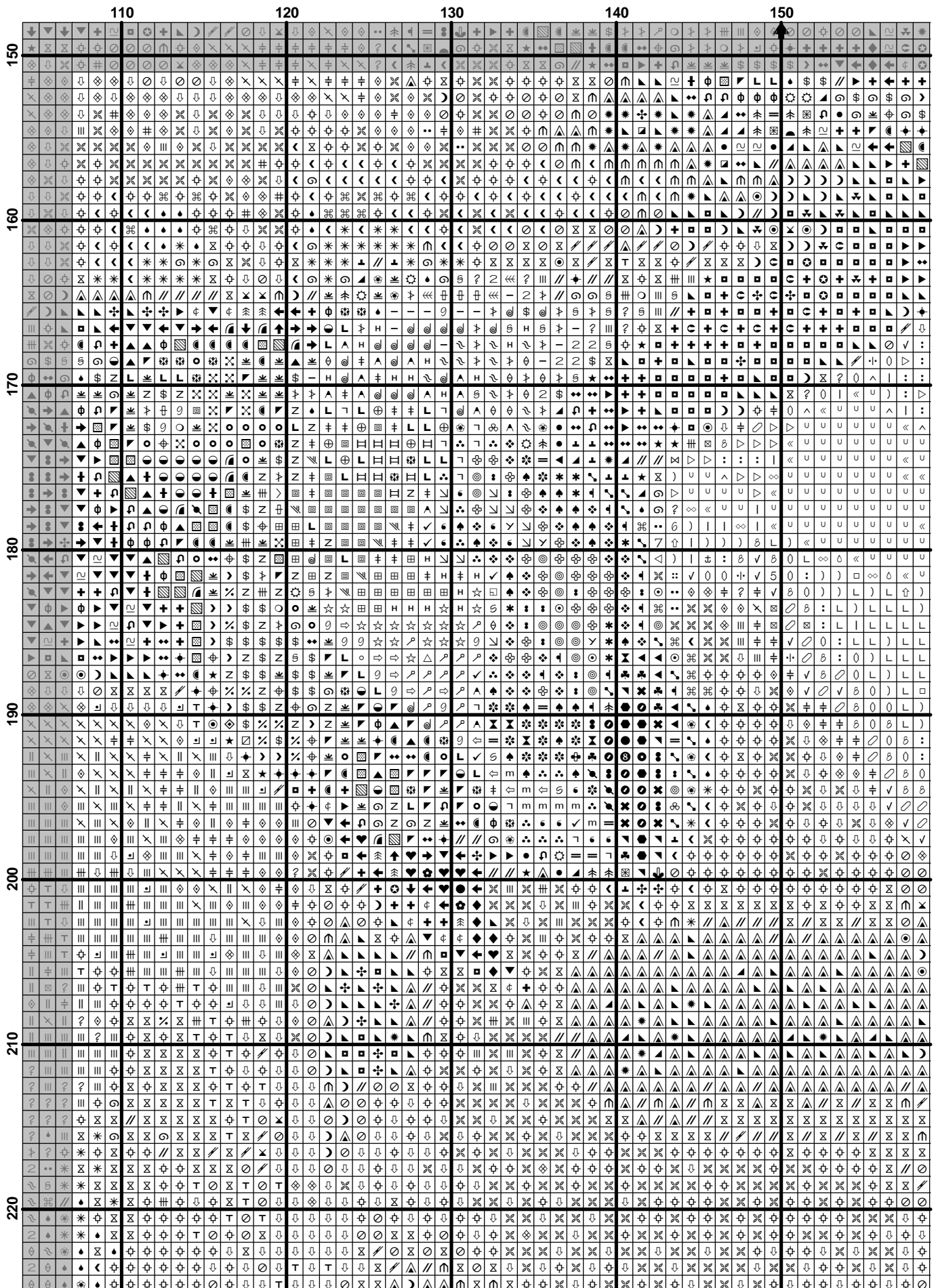
[illegible]







	60	70	80	90	100
150
160
170
180
190
200
210
220



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

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

