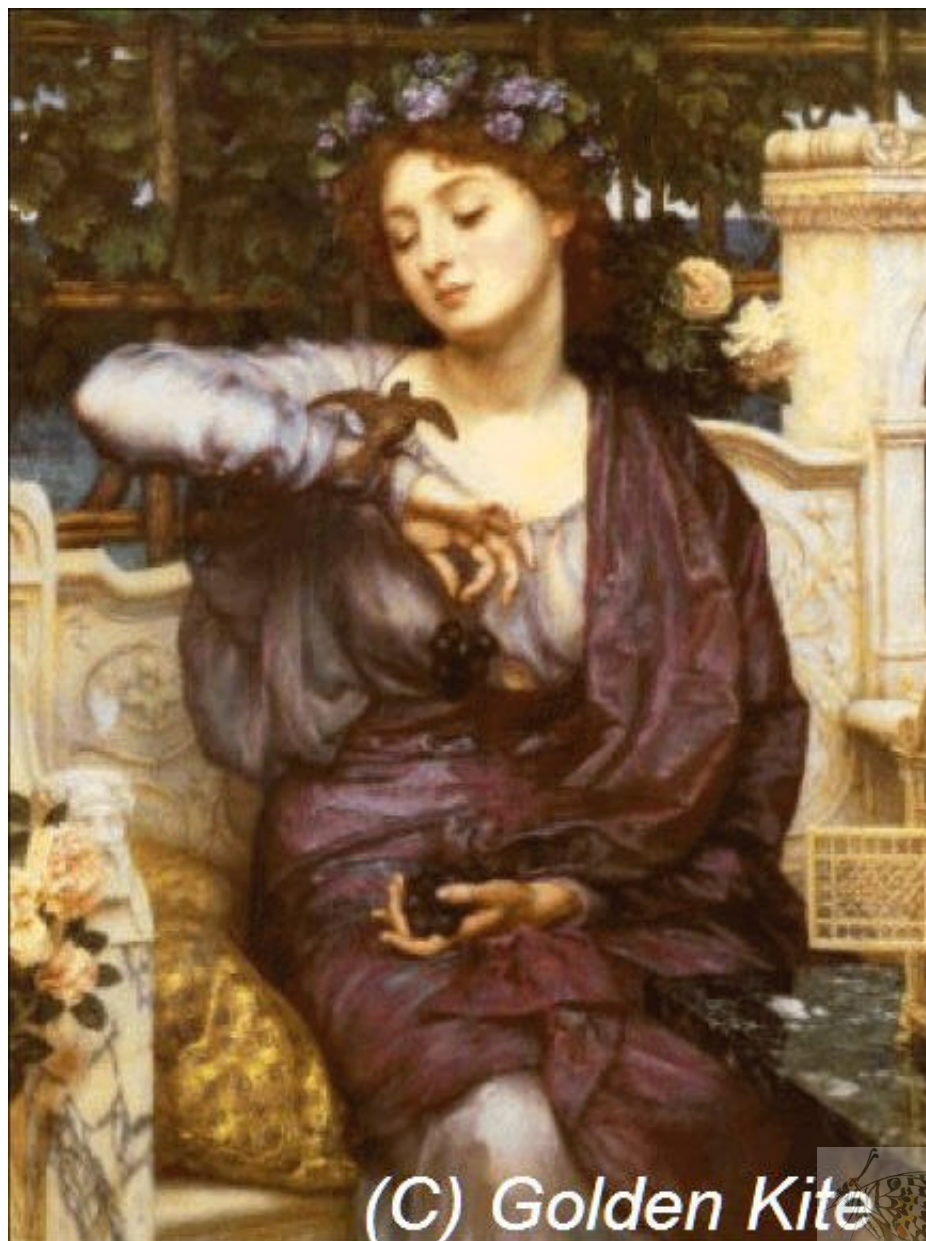


1282 Lesbia and her Sparrow



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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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Lesbia and her Sparrow



Stitch Count	
Horizontal:	289
Vertical:	385

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:	53	20.57	70	27.48	46	18	62	24.04	41	16	55	21.375
Including Margins:	69	27	86	34	62	25	78	31	57	23	71	28
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	74	28.79	98	38.47	61	23.99	81	32.06	30	11.99	40	16.03
Including Margins:	90	35	114	45	77	30	97	39	46	18	56	23
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	29	11.51	39	15.38	28	11.07	37	14.79	27	10.66	36	14.24
Including Margins:	45	18	55	22	44	18	53	21	43	17	52	21
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	26	10.28	35	13.74	24	9.59	32	12.82	23	8.99	30	12.02
Including Margins:	42	17	51	20	40	16	48	19	39	15	46	19

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
7	224	Shell Pink-VY LT
◆	300	Mahogany-VY DK
▲	315	Antique Mauve-VY DK
✿	317	Pewter Gray
✎	370	Mustard-MD
∇	372	Mustard-LT
Ⓔ	407	Desert Sand-DK
▼	413	Pewter Gray-DK
⌘	414	Steel Gray-DK
?	415	Pearl Gray
◇	420	Hazelnut Brown-DK
Ⓕ	422	Hazelnut Brown-LT
●	433	Brown-MD
○	434	Brown-LT
⊕	435	Brown-VY LT
∨	436	Tan
•	437	Tan-LT
›	451	Shell Gray-DK
2	452	Shell Gray-MD
:	543	Beige Brown-UL VY LT
☾	610	Drab Brown-DK
∅	611	Drab Brown
↘	612	Drab Brown-LT
α	613	Drab Brown-VY LT
♠	632	Desert Sand-UL VY DK
⊕	640	Beige Gray-VY DK
◇	644	Beige Gray-MD
▼	645	Beaver Gray-VY DK
⊞	646	Beaver Gray-DK
#	647	Beaver Gray-MD
+	676	Old Gold-LT
∞	677	Old Gold-VY LT
♣	680	Old Gold-DK
u	712	Cream
✓	729	Old Gold-MD
⊞	738	Tan-VY LT
⇒	739	Tan-UL VY LT
✱	780	Topaz-UL VY DK
☉	801	Coffee Brown-DK
∨	822	Beige Gray-LT
↓	829	Golden Olive-VY DK
◀	830	Golden Olive-DK
✿	838	Beige Brown-VY DK
←	839	Beige Brown-DK
≡	841	Beige Brown-LT

○	842	Beige Brown-VY LT
☿	844	Beaver Brown-UL DK
♂	869	Hazelnut Brown-VY DK
Ⓢ	898	Coffee Brown-VY DK
✎	926	Gray Green-MD
✎	927	Gray Green-LT
••	928	Gray Green-VY LT
■	938	Coffee Brown-UL DK
6	945	Tawny
β	950	Desert Sand-LT
•	951	Tawny-LT
✎	3011	Khaki Green-DK
↓	3021	Brown Gray-VY DK
⇄	3024	Brown Gray-VY LT
●	3031	Mocha Brown-VY DK
⊞	3032	Mocha Brown-MD
=	3033	Mocha Brown-VY LT
✎	3041	Antique Violet-MD
••	3042	Antique Violet-LT
III	3045	Yellow Beige-DK
⊞	3047	Yellow Beige-LT
○	3072	Beaver Gray-VY LT
⊞	3753	Antique Blue-UL VY LT
1	3770	Tawny-VY LT
■	3781	Mocha Brown-DK
↑	3782	Mocha Brown-LT
✎	3787	Brown Gray-DK
m	3820	Straw-DK
⊞	3822	Straw-LT
«	3823	Yellow-UL Pale
☆	3825	Pumpkin-Pale
☿	3826	Golden Brown
√	3827	Golden Brown-Pale
✎	3828	Hazelnut Brown
•	3829	Old Gold-VY DK
)	3855	Autumn Gold-LT
4	3856	Mahogany-UL VY LT
●	3857	Rosewood-DK
⊞	3858	Rosewood-MD
☼	3860	Cocoa
⊞	3861	Cocoa-LT
☼	3863	Mocha Beige-MD
☼	3864	Mocha Beige-LT
	3866	Mocha Brown-UL VY LT
n	Ecrú	Ecrú

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

Symbol	DMC1	Name1	DMC2	Name2
◊	712	Cream	3866	Mocha Brown-UL VY LT
×	414	Steel Gray-DK	503	Blue Green-MD
⦶	610	Drab Brown-DK	839	Beige Brown-DK
■	938	Coffee Brown-UL DK	3371	Black Brown
⌵	839	Beige Brown-DK	3021	Brown Gray-VY DK
↑	838	Beige Brown-VY DK	839	Beige Brown-DK
♠	3041	Antique Violet-MD	3861	Cocoa-LT
▲	3721	Shell Pink-DK	3863	Mocha Beige-MD
//	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
♣	801	Coffee Brown-DK	869	Hazelnut Brown-VY DK
★	317	Pewter Gray	3041	Antique Violet-MD
↗	640	Beige Gray-VY DK	844	Beaver Brown-UL DK
⌵	407	Desert Sand-DK	738	Tan-VY LT
田	407	Desert Sand-DK	612	Drab Brown-LT
⬆	611	Drab Brown	3011	Khaki Green-DK
⬆	315	Antique Mauve-VY DK	844	Beaver Brown-UL DK
☉	844	Beaver Brown-UL DK	3787	Brown Gray-DK
✱	3860	Cocoa	3861	Cocoa-LT
◊	452	Shell Gray-MD	3861	Cocoa-LT
⦶	3032	Mocha Brown-MD	3861	Cocoa-LT
⬆	315	Antique Mauve-VY DK	3860	Cocoa
⦶	632	Desert Sand-UL VY DK	3802	Antique Mauve-VY DK
>	3823	Yellow-UL Pale	754	Peach-LT
▲	420	Hazelnut Brown-DK	434	Brown-LT
=	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
✕	3011	Khaki Green-DK	3346	Hunter Green
✱	830	Golden Olive-DK	3781	Mocha Brown-DK
☉	801	Coffee Brown-DK	898	Coffee Brown-VY DK
✱	3011	Khaki Green-DK	3787	Brown Gray-DK
■	610	Drab Brown-DK	632	Desert Sand-UL VY DK
↖	3032	Mocha Brown-MD	3863	Mocha Beige-MD
⬆	611	Drab Brown	3787	Brown Gray-DK
☉	839	Beige Brown-DK	3011	Khaki Green-DK
↖	3362	Pine Green-DK	3781	Mocha Brown-DK
➔	801	Coffee Brown-DK	3781	Mocha Brown-DK
✕	898	Coffee Brown-VY DK	936	Avocado Green-VY DK
⦶	610	Drab Brown-DK	433	Brown-MD
▶	3011	Khaki Green-DK	3362	Pine Green-DK
⦶	317	Pewter Gray	844	Beaver Brown-UL DK
(712	Cream	3753	Antique Blue-UL VY LT
<	3072	Beaver Gray-VY LT	3866	Mocha Brown-UL VY LT
⬅	224	Shell Pink-VY LT	415	Pearl Gray
田	224	Shell Pink-VY LT	644	Beige Gray-MD
z	3836	Grape-LT	3041	Antique Violet-MD
♣	300	Mahogany-VY DK	869	Hazelnut Brown-VY DK
℥	371	Mustard	640	Beige Gray-VY DK
♦	317	Pewter Gray	3860	Cocoa
■	844	Beaver Brown-UL DK	3860	Cocoa
▲	315	Antique Mauve-VY DK	3041	Antique Violet-MD
●	300	Mahogany-VY DK	780	Topaz-UL VY DK
田	356	Terra Cotta-MD	435	Brown-VY LT
●	3828	Hazelnut Brown	435	Brown-VY LT
::	3856	Mahogany-UL VY LT	436	Tan

／	3856	Mahogany-UL VY LT	738	Tan-VY LT
↑	3823	Yellow-UL Pale	822	Beige Gray-LT
♡	945	Tawny	677	Old Gold-VY LT
▲	356	Terra Cotta-MD	372	Mustard-LT
⦿	3863	Mocha Beige-MD	436	Tan
◌	822	Beige Gray-LT	3770	Tawny-VY LT
~	3823	Yellow-UL Pale	951	Tawny-LT
⌘	436	Tan	3825	Pumpkin-Pale
⌘	356	Terra Cotta-MD	436	Tan
✦	3829	Old Gold-VY DK	435	Brown-VY LT
◇	436	Tan	437	Tan-LT
⌒	754	Peach-LT	951	Tawny-LT
▷	951	Tawny-LT	543	Beige Brown-UL VY LT
⌘	3825	Pumpkin-Pale	3856	Mahogany-UL VY LT
∩	356	Terra Cotta-MD	3853	Autumn Gold-DK
~	436	Tan	3064	Desert Sand
○	3064	Desert Sand	3825	Pumpkin-Pale
✦	780	Topaz-UL VY DK	3826	Golden Brown
⊕	420	Hazelnut Brown-DK	435	Brown-VY LT
⌘	3853	Autumn Gold-DK	436	Tan
∩	677	Old Gold-VY LT	738	Tan-VY LT
∥	3864	Mocha Beige-LT	738	Tan-VY LT
♥	300	Mahogany-VY DK	898	Coffee Brown-VY DK
□	3753	Antique Blue-UL VY LT	3770	Tawny-VY LT
9	738	Tan-VY LT	945	Tawny
☾	3726	Antique Mauve-DK	3860	Cocoa
◀	3726	Antique Mauve-DK	3861	Cocoa-LT
●	3721	Shell Pink-DK	3860	Cocoa
♣	315	Antique Mauve-VY DK	3861	Cocoa-LT
●	300	Mahogany-VY DK	938	Coffee Brown-UL DK
▨	632	Desert Sand-UL VY DK	844	Beaver Brown-UL DK
—	842	Beige Brown-VY LT	452	Shell Gray-MD
⌒	3862	Mocha Beige-DK	3863	Mocha Beige-MD
ⓔ	415	Pearl Gray	3024	Brown Gray-VY LT
⦿	415	Pearl Gray	3042	Antique Violet-LT
⦿	927	Gray Green-LT	3041	Antique Violet-MD
⦿	640	Beige Gray-VY DK	3041	Antique Violet-MD
∩	645	Beaver Gray-VY DK	3041	Antique Violet-MD
+	610	Drab Brown-DK	844	Beaver Brown-UL DK
⦿	645	Beaver Gray-VY DK	926	Gray Green-MD
5	676	Old Gold-LT	422	Hazelnut Brown-LT
♣	433	Brown-MD	434	Brown-LT
×	841	Beige Brown-LT	372	Mustard-LT
⌘	420	Hazelnut Brown-DK	611	Drab Brown
3	543	Beige Brown-UL VY LT	452	Shell Gray-MD
^	3072	Beaver Gray-VY LT	3770	Tawny-VY LT
⦿	3861	Cocoa-LT	3836	Grape-LT
⌘	640	Beige Gray-VY DK	3860	Cocoa
△	543	Beige Brown-UL VY LT	613	Drab Brown-VY LT
\$	729	Old Gold-MD	3826	Golden Brown
⦿	420	Hazelnut Brown-DK	3829	Old Gold-VY 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	
224	Shell Pink-VY LT	46	18	44	17	39	15
300	Mahogany-VY DK	753	296	717	282	646	254
315	Antique Mauve-VY DK	633	249	603	237	543	213
317	Pewter Gray	92	36	87	34	78	30
356	Terra Cotta-MD	120	47	114	44	103	40
370	Mustard-MD	102	40	97	38	87	34
371	Mustard	20	7	19	7	17	6
372	Mustard-LT	196	77	187	73	168	66
407	Desert Sand-DK	198	77	188	74	169	66
413	Pewter Gray-DK	21	8	20	7	18	7
414	Steel Gray-DK	19	7	18	7	16	6
415	Pearl Gray	93	36	89	35	80	31
420	Hazelnut Brown-DK	557	219	531	209	478	188
422	Hazelnut Brown-LT	133	52	127	50	114	44
433	Brown-MD	482	189	459	180	413	162
434	Brown-LT	352	138	335	131	302	118
435	Brown-VY LT	348	137	331	130	298	117
436	Tan	494	194	471	185	423	166
437	Tan-LT	214	84	204	80	183	72
451	Shell Gray-DK	66	25	63	24	56	22
452	Shell Gray-MD	279	109	266	104	239	94
503	Blue Green-MD	6	2	6	2	5	1
543	Beige Brown-UL VY LT	374	147	356	140	320	125
610	Drab Brown-DK	628	247	598	235	538	211
611	Drab Brown	242	95	231	90	208	81
612	Drab Brown-LT	181	71	172	67	155	61
613	Drab Brown-VY LT	424	166	403	158	363	142
632	Desert Sand-UL VY DK	912	359	869	342	782	307
640	Beige Gray-VY DK	419	164	399	157	359	141
644	Beige Gray-MD	91	35	86	33	78	30
645	Beaver Gray-VY DK	154	60	147	57	132	51
646	Beaver Gray-DK	54	21	51	20	46	18
647	Beaver Gray-MD	57	22	54	21	49	19
676	Old Gold-LT	55	21	52	20	47	18
677	Old Gold-VY LT	304	119	290	114	261	102
680	Old Gold-DK	43	16	41	16	37	14
712	Cream	203	79	194	76	174	68
729	Old Gold-MD	107	42	102	40	92	36
738	Tan-VY LT	793	312	755	297	680	267
739	Tan-UL VY LT	250	98	238	93	214	84
754	Peach-LT	51	20	48	18	43	16
780	Topaz-UL VY DK	65	25	62	24	56	22
801	Coffee Brown-DK	1470	578	1400	551	1260	496
822	Beige Gray-LT	253	99	241	94	217	85
829	Golden Olive-VY DK	191	75	181	71	163	64
830	Golden Olive-DK	210	82	200	78	180	70
838	Beige Brown-VY DK	894	351	852	335	766	301
839	Beige Brown-DK	1748	688	1665	655	1498	589
841	Beige Brown-LT	148	58	141	55	127	50
842	Beige Brown-VY LT	204	80	194	76	175	68
844	Beaver Brown-UL DK	968	381	921	362	829	326
869	Hazelnut Brown-VY DK	298	117	283	111	255	100
898	Coffee Brown-VY DK	1939	763	1847	727	1662	654

926	Gray Green-MD	49	19	47	18	42	16
927	Gray Green-LT	54	21	52	20	47	18
928	Gray Green-VY LT	42	16	40	15	36	14
936	Avocado Green-VY DK	524	206	499	196	449	176
938	Coffee Brown-UL DK	1599	629	1523	599	1371	539
945	Tawny	196	77	187	73	168	66
950	Desert Sand-LT	64	25	61	24	55	21
951	Tawny-LT	189	74	180	70	162	63
3011	Khaki Green-DK	270	106	257	101	231	90
3021	Brown Gray-VY DK	480	188	458	180	412	162
3024	Brown Gray-VY LT	174	68	166	65	149	58
3031	Mocha Brown-VY DK	429	168	409	161	368	144
3032	Mocha Brown-MD	230	90	219	86	197	77
3033	Mocha Brown-VY LT	51	20	49	19	44	17
3041	Antique Violet-MD	208	81	199	78	179	70
3042	Antique Violet-LT	64	25	61	24	54	21
3045	Yellow Beige-DK	99	38	94	37	85	33
3047	Yellow Beige-LT	108	42	102	40	92	36
3064	Desert Sand	77	30	73	28	66	25
3072	Beaver Gray-VY LT	199	78	190	74	171	67
3346	Hunter Green	4	1	3	1	3	1
3362	Pine Green-DK	152	59	145	57	130	51
3371	Black Brown	121	47	115	45	104	40
3721	Shell Pink-DK	57	22	54	21	48	18
3726	Antique Mauve-DK	127	50	120	47	108	42
3753	Antique Blue-UL VY LT	117	46	112	44	100	39
3770	Tawny-VY LT	311	122	296	116	267	105
3781	Mocha Brown-DK	1366	537	1301	512	1171	461
3782	Mocha Brown-LT	160	62	152	59	137	53
3787	Brown Gray-DK	269	105	256	100	231	90
3802	Antique Mauve-VY DK	209	82	199	78	179	70
3820	Straw-DK	11	4	11	4	10	3
3822	Straw-LT	4	1	4	1	3	1
3823	Yellow-UL Pale	443	174	422	166	380	149
3825	Pumpkin-Pale	61	24	58	22	52	20
3826	Golden Brown	62	24	59	23	53	20
3827	Golden Brown-Pale	26	10	25	9	22	8
3828	Hazelnut Brown	276	108	263	103	236	92
3829	Old Gold-VY DK	74	29	70	27	63	24
3836	Grape-LT	27	10	26	10	23	9
3853	Autumn Gold-DK	15	5	14	5	13	5
3855	Autumn Gold-LT	43	16	41	16	37	14
3856	Mahogany-UL VY LT	205	80	195	76	176	69
3857	Rosewood-DK	47	18	45	17	40	15
3858	Rosewood-MD	12	4	11	4	10	3
3860	Cocoa	1217	479	1159	456	1043	410
3861	Cocoa-LT	466	183	444	174	399	157
3862	Mocha Beige-DK	205	80	195	76	175	68
3863	Mocha Beige-MD	597	235	569	224	512	201
3864	Mocha Beige-LT	245	96	233	91	210	82
3866	Mocha Brown-UL VY LT	218	85	207	81	186	73
Ecru	Ecru	140	55	133	52	120	47

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
224	Shell Pink-VY LT	70	27	59	23	29	11
300	Mahogany-VY DK	1163	457	969	381	485	191
315	Antique Mauve-VY DK	977	383	815	320	407	160
317	Pewter Gray	140	54	117	45	59	23
356	Terra Cotta-MD	185	72	155	60	77	30
370	Mustard-MD	157	61	131	51	65	26
371	Mustard	31	11	26	9	13	5
372	Mustard-LT	302	119	252	99	126	50
407	Desert Sand-DK	304	119	254	99	127	50
413	Pewter Gray-DK	32	13	27	11	14	5
414	Steel Gray-DK	29	11	24	9	12	5
415	Pearl Gray	144	56	120	47	60	23
420	Hazelnut Brown-DK	860	338	717	282	359	141
422	Hazelnut Brown-LT	205	79	171	66	86	33
433	Brown-MD	743	292	620	243	310	122
434	Brown-LT	544	212	453	177	227	89
435	Brown-VY LT	536	211	447	176	224	88
436	Tan	761	299	635	249	317	125
437	Tan-LT	329	130	275	108	137	54
451	Shell Gray-DK	101	40	84	33	42	17
452	Shell Gray-MD	430	169	359	141	179	71
503	Blue Green-MD	9	2	8	2	4	1
543	Beige Brown-UL VY LT	576	225	480	188	240	94
610	Drab Brown-DK	968	380	807	317	404	158
611	Drab Brown	374	146	312	122	156	61
612	Drab Brown-LT	279	110	233	92	116	46
613	Drab Brown-VY LT	653	256	545	213	272	107
632	Desert Sand-UL VY DK	1408	553	1173	461	587	230
640	Beige Gray-VY DK	646	254	539	212	269	106
644	Beige Gray-MD	140	54	117	45	59	23
645	Beaver Gray-VY DK	238	92	198	77	99	38
646	Beaver Gray-DK	83	32	69	27	35	14
647	Beaver Gray-MD	88	34	74	29	37	14
676	Old Gold-LT	85	32	71	27	35	14
677	Old Gold-VY LT	470	184	392	153	196	77
680	Old Gold-DK	67	25	56	21	28	11
712	Cream	313	122	261	102	131	51
729	Old Gold-MD	166	65	138	54	69	27
738	Tan-VY LT	1224	481	1020	401	510	200
739	Tan-UL VY LT	385	151	321	126	161	63
754	Peach-LT	77	29	65	24	32	12
780	Topaz-UL VY DK	101	40	84	33	42	17
801	Coffee Brown-DK	2268	893	1890	744	945	372
822	Beige Gray-LT	391	153	326	128	163	64
829	Golden Olive-VY DK	293	115	245	96	122	48
830	Golden Olive-DK	324	126	270	105	135	53
838	Beige Brown-VY DK	1379	542	1149	452	575	226
839	Beige Brown-DK	2696	1060	2247	884	1124	442
841	Beige Brown-LT	229	90	191	75	95	38
842	Beige Brown-VY LT	315	122	263	102	131	51
844	Beaver Brown-UL DK	1492	587	1244	489	622	245
869	Hazelnut Brown-VY DK	459	180	383	150	191	75
898	Coffee Brown-VY DK	2992	1177	2493	981	1247	491

926	Gray Green-MD	76	29	63	24	32	12
927	Gray Green-LT	85	32	71	27	35	14
928	Gray Green-VY LT	65	25	54	21	27	11
936	Avocado Green-VY DK	808	317	674	264	337	132
938	Coffee Brown-UL DK	2468	970	2057	809	1028	404
945	Tawny	302	119	252	99	126	50
950	Desert Sand-LT	99	38	83	32	41	16
951	Tawny-LT	292	113	243	95	122	47
3011	Khaki Green-DK	416	162	347	135	173	68
3021	Brown Gray-VY DK	742	292	618	243	309	122
3024	Brown Gray-VY LT	268	104	224	87	112	44
3031	Mocha Brown-VY DK	662	259	552	216	276	108
3032	Mocha Brown-MD	355	139	296	116	148	58
3033	Mocha Brown-VY LT	79	31	66	26	33	13
3041	Antique Violet-MD	322	126	269	105	134	53
3042	Antique Violet-LT	97	38	81	32	41	16
3045	Yellow Beige-DK	153	59	128	50	64	25
3047	Yellow Beige-LT	166	65	138	54	69	27
3064	Desert Sand	119	45	99	38	50	19
3072	Beaver Gray-VY LT	308	121	257	101	128	50
3346	Hunter Green	5	2	5	2	2	1
3362	Pine Green-DK	234	92	195	77	98	38
3371	Black Brown	187	72	156	60	78	30
3721	Shell Pink-DK	86	32	72	27	36	14
3726	Antique Mauve-DK	194	76	162	63	81	32
3753	Antique Blue-UL VY LT	180	70	150	59	75	29
3770	Tawny-VY LT	481	189	401	158	200	79
3781	Mocha Brown-DK	2108	830	1757	692	878	346
3782	Mocha Brown-LT	247	95	206	80	103	40
3787	Brown Gray-DK	416	162	347	135	173	68
3802	Antique Mauve-VY DK	322	126	269	105	134	53
3820	Straw-DK	18	5	15	5	8	2
3822	Straw-LT	5	2	5	2	2	1
3823	Yellow-UL Pale	684	268	570	224	285	112
3825	Pumpkin-Pale	94	36	78	30	39	15
3826	Golden Brown	95	36	80	30	40	15
3827	Golden Brown-Pale	40	14	33	12	17	6
3828	Hazelnut Brown	425	166	354	138	177	69
3829	Old Gold-VY DK	113	43	95	36	47	18
3836	Grape-LT	41	16	35	14	17	7
3853	Autumn Gold-DK	23	9	20	8	10	4
3855	Autumn Gold-LT	67	25	56	21	28	11
3856	Mahogany-UL VY LT	317	124	264	104	132	52
3857	Rosewood-DK	72	27	60	23	30	11
3858	Rosewood-MD	18	5	15	5	8	2
3860	Cocoa	1877	738	1565	615	782	308
3861	Cocoa-LT	718	283	599	236	299	118
3862	Mocha Beige-DK	315	122	263	102	131	51
3863	Mocha Beige-MD	922	362	768	302	384	151
3864	Mocha Beige-LT	378	148	315	123	158	62
3866	Mocha Brown-UL VY LT	335	131	279	110	140	55
Ecru	Ecru	216	85	180	71	90	35

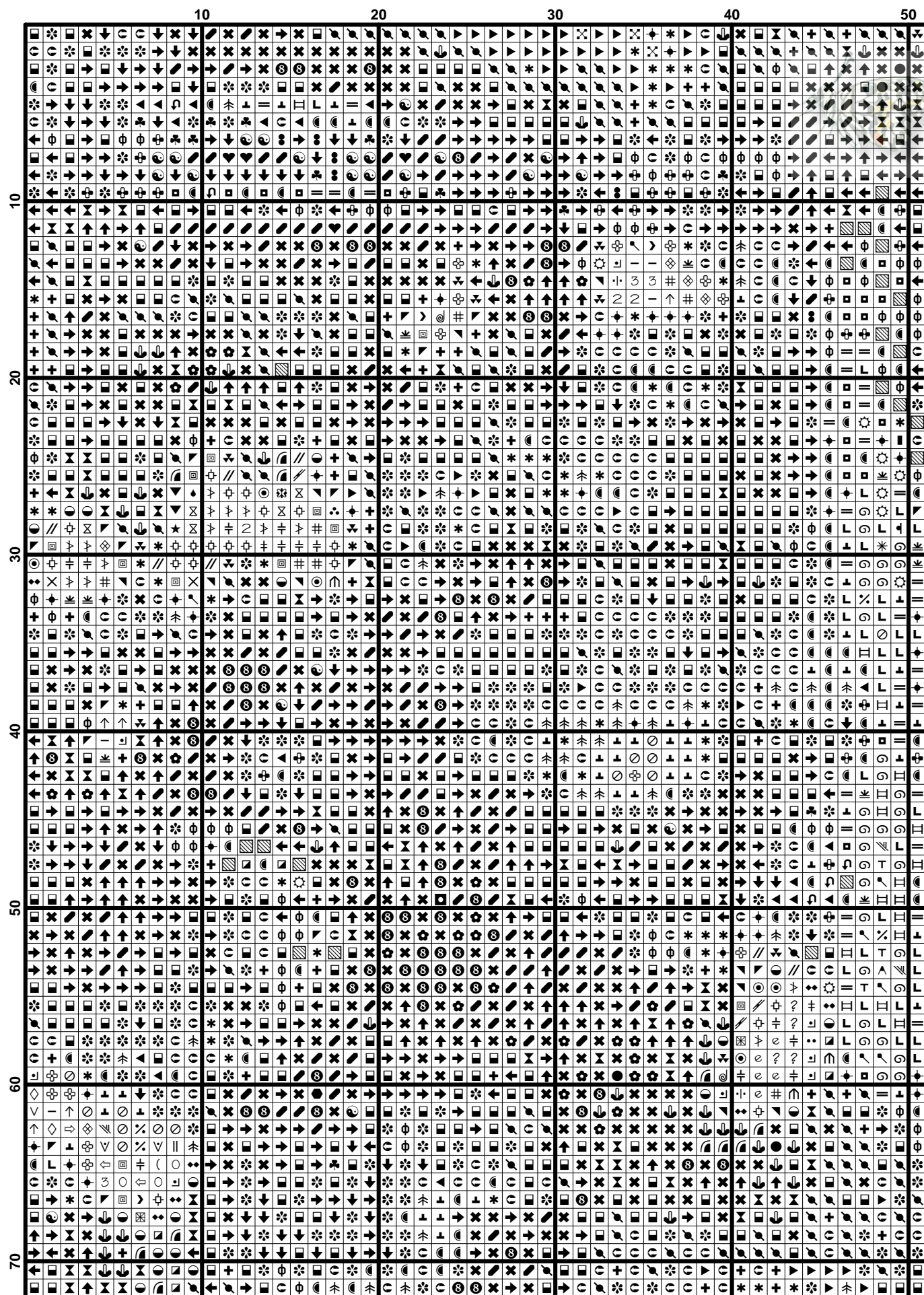
Extended thread usage table.

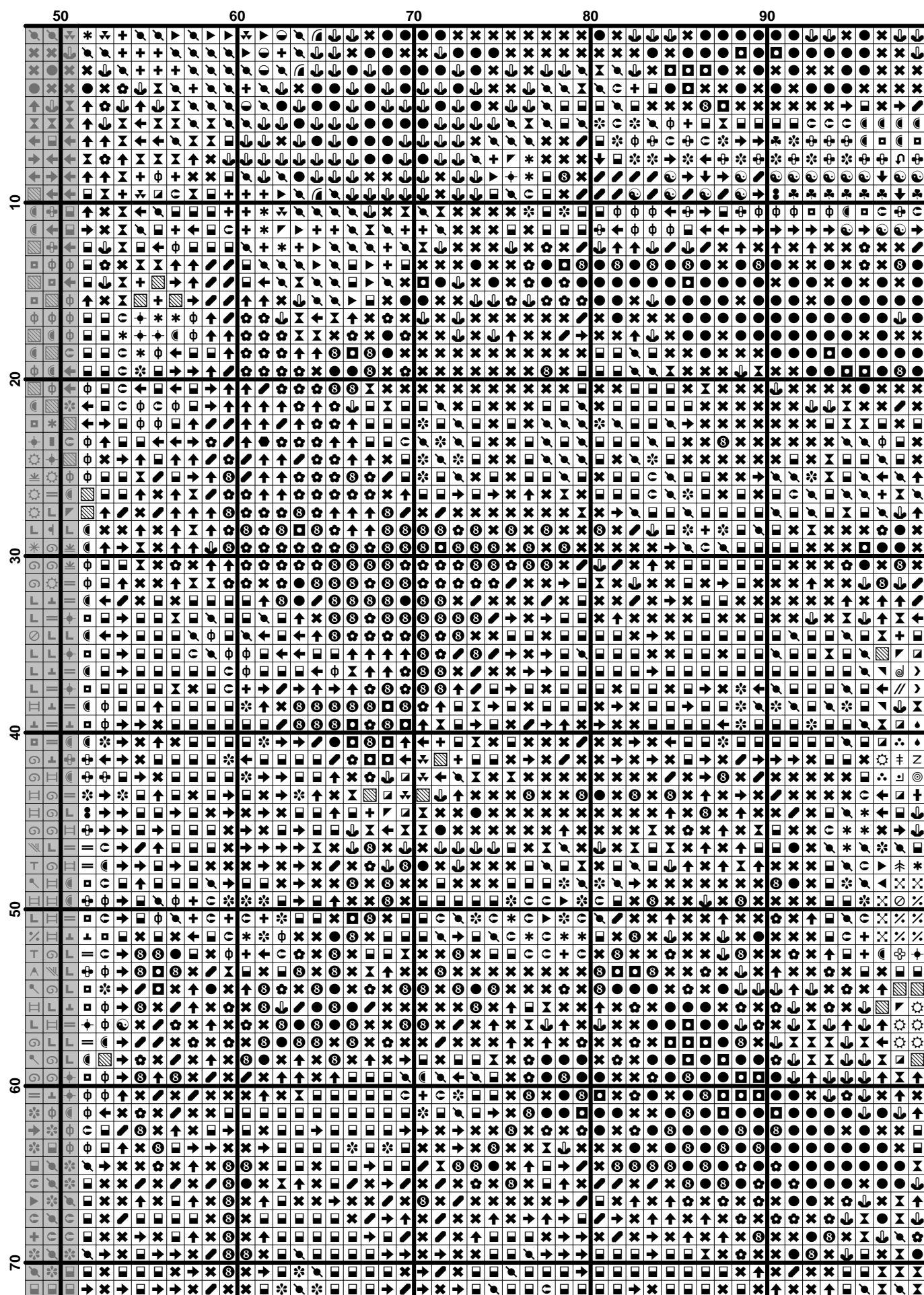
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
224	Shell Pink-VY LT	28	11	27	10	26	10
300	Mahogany-VY DK	465	183	447	176	431	169
315	Antique Mauve-VY DK	391	153	376	147	362	142
317	Pewter Gray	56	22	54	21	52	20
356	Terra Cotta-MD	74	29	71	28	69	27
370	Mustard-MD	63	24	60	24	58	23
371	Mustard	12	4	12	4	11	4
372	Mustard-LT	121	48	116	46	112	44
407	Desert Sand-DK	122	48	117	46	113	44
413	Pewter Gray-DK	13	5	12	5	12	5
414	Steel Gray-DK	12	4	11	4	11	4
415	Pearl Gray	58	22	55	21	53	21
420	Hazelnut Brown-DK	344	135	331	130	319	125
422	Hazelnut Brown-LT	82	32	79	30	76	29
433	Brown-MD	297	117	286	112	275	108
434	Brown-LT	217	85	209	82	201	79
435	Brown-VY LT	215	84	206	81	199	78
436	Tan	305	120	293	115	282	111
437	Tan-LT	132	52	127	50	122	48
451	Shell Gray-DK	40	16	39	15	37	15
452	Shell Gray-MD	172	68	165	65	159	63
503	Blue Green-MD	4	1	3	1	3	1
543	Beige Brown-UL VY LT	230	90	222	87	213	83
610	Drab Brown-DK	387	152	372	146	359	141
611	Drab Brown	150	58	144	56	139	54
612	Drab Brown-LT	112	44	107	42	103	41
613	Drab Brown-VY LT	261	102	251	98	242	95
632	Desert Sand-UL VY DK	563	221	541	213	521	205
640	Beige Gray-VY DK	258	102	249	98	239	94
644	Beige Gray-MD	56	22	54	21	52	20
645	Beaver Gray-VY DK	95	37	91	35	88	34
646	Beaver Gray-DK	33	13	32	12	31	12
647	Beaver Gray-MD	35	14	34	13	33	13
676	Old Gold-LT	34	13	33	12	31	12
677	Old Gold-VY LT	188	73	181	71	174	68
680	Old Gold-DK	27	10	26	10	25	9
712	Cream	125	49	120	47	116	45
729	Old Gold-MD	66	26	64	25	61	24
738	Tan-VY LT	490	192	471	185	453	178
739	Tan-UL VY LT	154	60	148	58	143	56
754	Peach-LT	31	12	30	11	29	11
780	Topaz-UL VY DK	40	16	39	15	37	15
801	Coffee Brown-DK	907	357	872	343	840	331
822	Beige Gray-LT	156	61	150	59	145	57
829	Golden Olive-VY DK	117	46	113	44	109	43
830	Golden Olive-DK	130	50	125	48	120	47
838	Beige Brown-VY DK	552	217	530	208	511	201
839	Beige Brown-DK	1079	424	1037	408	999	393
841	Beige Brown-LT	91	36	88	35	85	33
842	Beige Brown-VY LT	126	49	121	47	117	45
844	Beaver Brown-UL DK	597	235	574	226	553	217
869	Hazelnut Brown-VY DK	184	72	177	69	170	67
898	Coffee Brown-VY DK	1197	471	1151	453	1108	436

926	Gray Green-MD	30	12	29	11	28	11
927	Gray Green-LT	34	13	33	12	31	12
928	Gray Green-VY LT	26	10	25	10	24	9
936	Avocado Green-VY DK	323	127	311	122	299	117
938	Coffee Brown-UL DK	987	388	949	373	914	359
945	Tawny	121	48	116	46	112	44
950	Desert Sand-LT	40	15	38	15	37	14
951	Tawny-LT	117	45	112	44	108	42
3011	Khaki Green-DK	166	65	160	62	154	60
3021	Brown Gray-VY DK	297	117	285	112	275	108
3024	Brown Gray-VY LT	107	42	103	40	99	39
3031	Mocha Brown-VY DK	265	104	255	100	245	96
3032	Mocha Brown-MD	142	55	136	53	131	51
3033	Mocha Brown-VY LT	32	12	30	12	29	11
3041	Antique Violet-MD	129	50	124	48	119	47
3042	Antique Violet-LT	39	15	37	15	36	14
3045	Yellow Beige-DK	61	24	59	23	57	22
3047	Yellow Beige-LT	66	26	64	25	61	24
3064	Desert Sand	48	18	46	17	44	17
3072	Beaver Gray-VY LT	123	48	118	46	114	45
3346	Hunter Green	2	1	2	1	2	1
3362	Pine Green-DK	94	37	90	35	87	34
3371	Black Brown	75	29	72	28	69	27
3721	Shell Pink-DK	35	13	33	12	32	12
3726	Antique Mauve-DK	78	30	75	29	72	28
3753	Antique Blue-UL VY LT	72	28	69	27	67	26
3770	Tawny-VY LT	192	76	185	73	178	70
3781	Mocha Brown-DK	843	332	811	319	781	307
3782	Mocha Brown-LT	99	38	95	37	91	35
3787	Brown Gray-DK	166	65	160	62	154	60
3802	Antique Mauve-VY DK	129	50	124	48	119	47
3820	Straw-DK	7	2	7	2	7	2
3822	Straw-LT	2	1	2	1	2	1
3823	Yellow-UL Pale	274	107	263	103	253	99
3825	Pumpkin-Pale	37	14	36	14	35	13
3826	Golden Brown	38	14	37	14	35	13
3827	Golden Brown-Pale	16	6	15	6	15	5
3828	Hazelnut Brown	170	66	163	64	157	61
3829	Old Gold-VY DK	45	17	44	17	42	16
3836	Grape-LT	17	6	16	6	15	6
3853	Autumn Gold-DK	9	4	9	3	9	3
3855	Autumn Gold-LT	27	10	26	10	25	9
3856	Mahogany-UL VY LT	127	50	122	48	117	46
3857	Rosewood-DK	29	11	28	10	27	10
3858	Rosewood-MD	7	2	7	2	7	2
3860	Cocoa	751	295	722	284	695	273
3861	Cocoa-LT	287	113	276	109	266	105
3862	Mocha Beige-DK	126	49	121	47	117	45
3863	Mocha Beige-MD	369	145	354	139	341	134
3864	Mocha Beige-LT	151	59	145	57	140	55
3866	Mocha Brown-UL VY LT	134	53	129	51	124	49
Ecru	Ecru	86	34	83	33	80	31

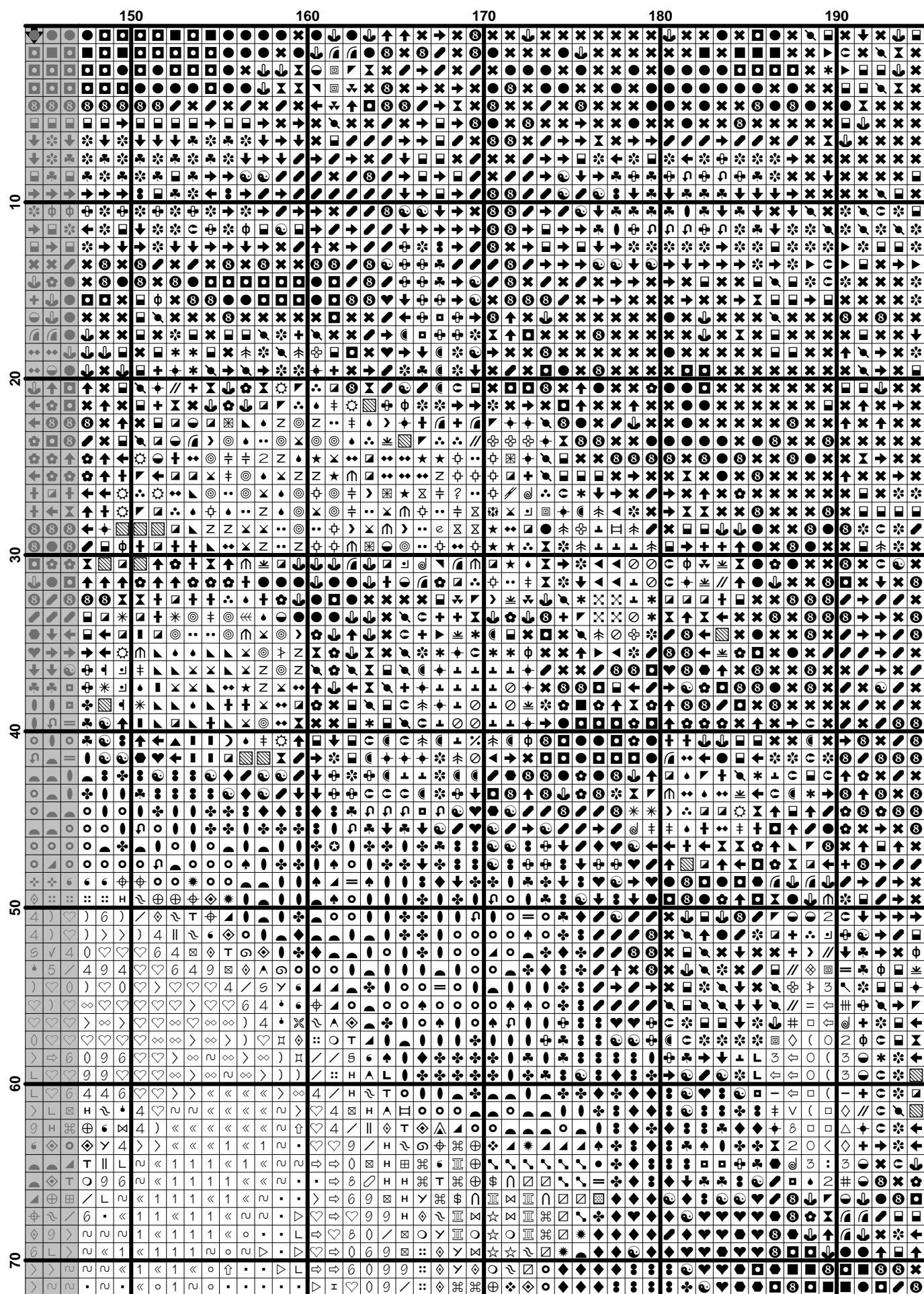
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
224	Shell Pink-VY LT	25	10	23	9	22	8
300	Mahogany-VY DK	415	163	388	152	363	143
315	Antique Mauve-VY DK	349	137	326	128	305	120
317	Pewter Gray	50	19	47	18	44	17
356	Terra Cotta-MD	66	26	62	24	58	23
370	Mustard-MD	56	22	52	20	49	19
371	Mustard	11	4	10	4	10	3
372	Mustard-LT	108	42	101	40	95	37
407	Desert Sand-DK	109	42	101	40	95	37
413	Pewter Gray-DK	12	5	11	4	10	4
414	Steel Gray-DK	10	4	10	4	9	3
415	Pearl Gray	51	20	48	19	45	17
420	Hazelnut Brown-DK	307	121	287	113	269	106
422	Hazelnut Brown-LT	73	28	68	26	64	25
433	Brown-MD	266	104	248	97	232	91
434	Brown-LT	194	76	181	71	170	66
435	Brown-VY LT	192	75	179	70	168	66
436	Tan	272	107	254	100	238	93
437	Tan-LT	118	46	110	43	103	41
451	Shell Gray-DK	36	14	34	13	32	12
452	Shell Gray-MD	154	60	143	56	134	53
503	Blue Green-MD	3	1	3	1	3	1
543	Beige Brown-UL VY LT	206	80	192	75	180	70
610	Drab Brown-DK	346	136	323	127	303	119
611	Drab Brown	134	52	125	49	117	46
612	Drab Brown-LT	100	39	93	37	87	34
613	Drab Brown-VY LT	233	91	218	85	204	80
632	Desert Sand-UL VY DK	503	197	469	184	440	173
640	Beige Gray-VY DK	231	91	215	85	202	79
644	Beige Gray-MD	50	19	47	18	44	17
645	Beaver Gray-VY DK	85	33	79	31	74	29
646	Beaver Gray-DK	30	12	28	11	26	10
647	Beaver Gray-MD	32	12	29	11	28	11
676	Old Gold-LT	30	12	28	11	26	10
677	Old Gold-VY LT	168	66	157	61	147	57
680	Old Gold-DK	24	9	22	8	21	8
712	Cream	112	44	104	41	98	38
729	Old Gold-MD	59	23	55	22	52	20
738	Tan-VY LT	437	172	408	160	383	150
739	Tan-UL VY LT	138	54	128	50	120	47
754	Peach-LT	28	10	26	10	24	9
780	Topaz-UL VY DK	36	14	34	13	32	12
801	Coffee Brown-DK	810	319	756	298	709	279
822	Beige Gray-LT	140	55	130	51	122	48
829	Golden Olive-VY DK	105	41	98	38	92	36
830	Golden Olive-DK	116	45	108	42	101	39
838	Beige Brown-VY DK	492	194	460	181	431	169
839	Beige Brown-DK	963	379	899	353	843	331
841	Beige Brown-LT	82	32	76	30	71	28
842	Beige Brown-VY LT	113	44	105	41	98	38
844	Beaver Brown-UL DK	533	210	497	196	466	183
869	Hazelnut Brown-VY DK	164	64	153	60	143	56
898	Coffee Brown-VY DK	1068	420	997	392	935	368

926	Gray Green-MD	27	10	25	10	24	9
927	Gray Green-LT	30	12	28	11	26	10
928	Gray Green-VY LT	23	9	22	8	20	8
936	Avocado Green-VY DK	289	113	269	106	253	99
938	Coffee Brown-UL DK	881	347	823	323	771	303
945	Tawny	108	42	101	40	95	37
950	Desert Sand-LT	35	14	33	13	31	12
951	Tawny-LT	104	41	97	38	91	35
3011	Khaki Green-DK	149	58	139	54	130	51
3021	Brown Gray-VY DK	265	104	247	97	232	91
3024	Brown Gray-VY LT	96	37	89	35	84	33
3031	Mocha Brown-VY DK	237	93	221	86	207	81
3032	Mocha Brown-MD	127	50	118	46	111	43
3033	Mocha Brown-VY LT	28	11	26	10	25	10
3041	Antique Violet-MD	115	45	107	42	101	39
3042	Antique Violet-LT	35	14	32	13	30	12
3045	Yellow Beige-DK	55	21	51	20	48	19
3047	Yellow Beige-LT	59	23	55	22	52	20
3064	Desert Sand	42	16	40	15	37	14
3072	Beaver Gray-VY LT	110	43	103	40	96	38
3346	Hunter Green	2	1	2	1	2	1
3362	Pine Green-DK	84	33	78	31	73	29
3371	Black Brown	67	26	62	24	59	23
3721	Shell Pink-DK	31	12	29	11	27	10
3726	Antique Mauve-DK	69	27	65	25	61	24
3753	Antique Blue-UL VY LT	64	25	60	23	56	22
3770	Tawny-VY LT	172	68	160	63	150	59
3781	Mocha Brown-DK	753	296	703	277	659	259
3782	Mocha Brown-LT	88	34	82	32	77	30
3787	Brown Gray-DK	149	58	139	54	130	51
3802	Antique Mauve-VY DK	115	45	107	42	101	39
3820	Straw-DK	6	2	6	2	6	2
3822	Straw-LT	2	1	2	1	2	1
3823	Yellow-UL Pale	244	96	228	89	214	84
3825	Pumpkin-Pale	33	13	31	12	29	11
3826	Golden Brown	34	13	32	12	30	11
3827	Golden Brown-Pale	14	5	13	5	12	5
3828	Hazelnut Brown	152	59	142	55	133	52
3829	Old Gold-VY DK	41	15	38	14	35	14
3836	Grape-LT	15	6	14	5	13	5
3853	Autumn Gold-DK	8	3	8	3	7	3
3855	Autumn Gold-LT	24	9	22	8	21	8
3856	Mahogany-UL VY LT	113	44	106	41	99	39
3857	Rosewood-DK	26	10	24	9	23	8
3858	Rosewood-MD	6	2	6	2	6	2
3860	Cocoa	671	264	626	246	587	231
3861	Cocoa-LT	257	101	239	94	224	88
3862	Mocha Beige-DK	113	44	105	41	98	38
3863	Mocha Beige-MD	329	129	307	121	288	113
3864	Mocha Beige-LT	135	53	126	49	118	46
3866	Mocha Brown-UL VY LT	120	47	112	44	105	41
Ecru	Ecru	77	30	72	28	68	26



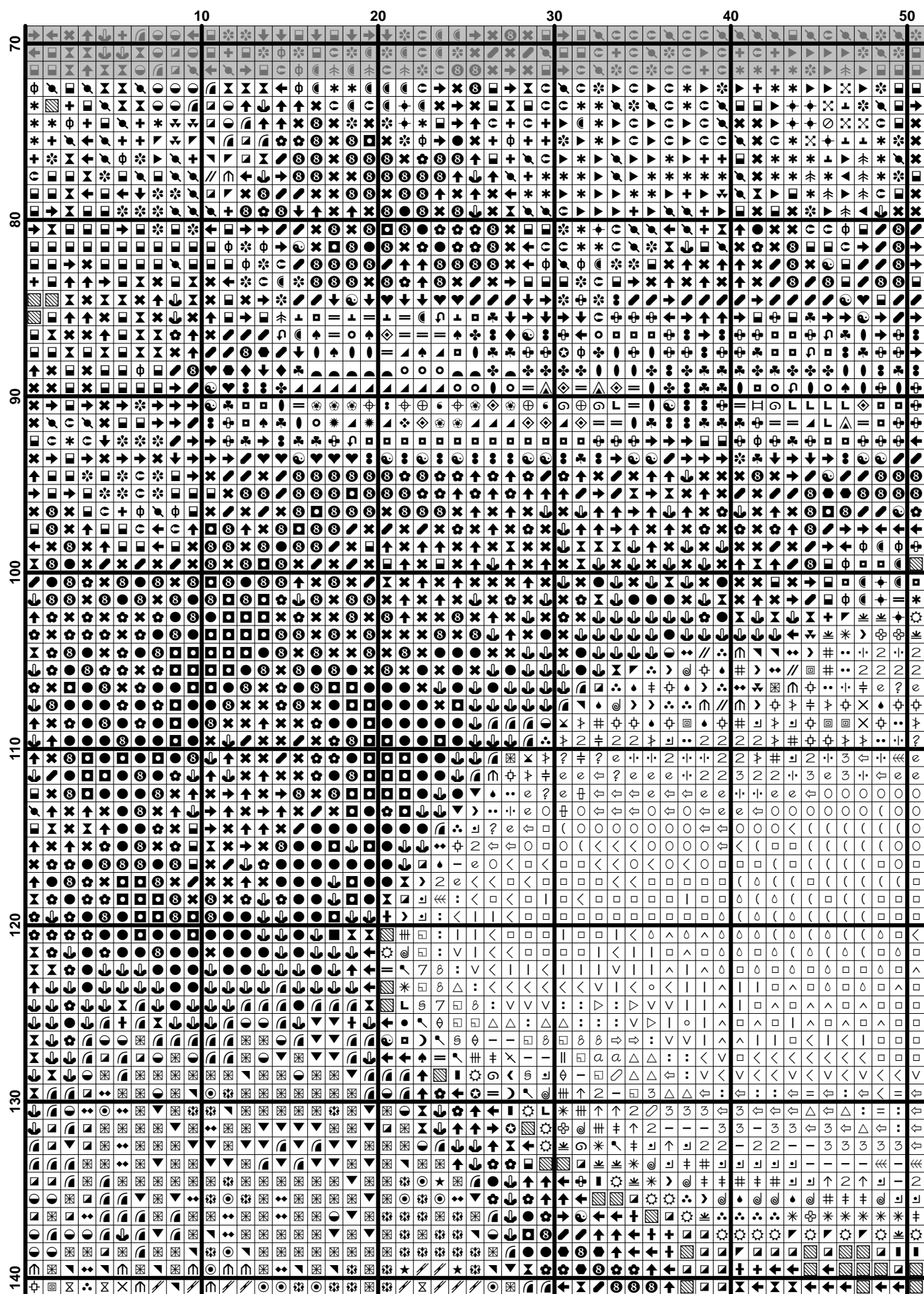


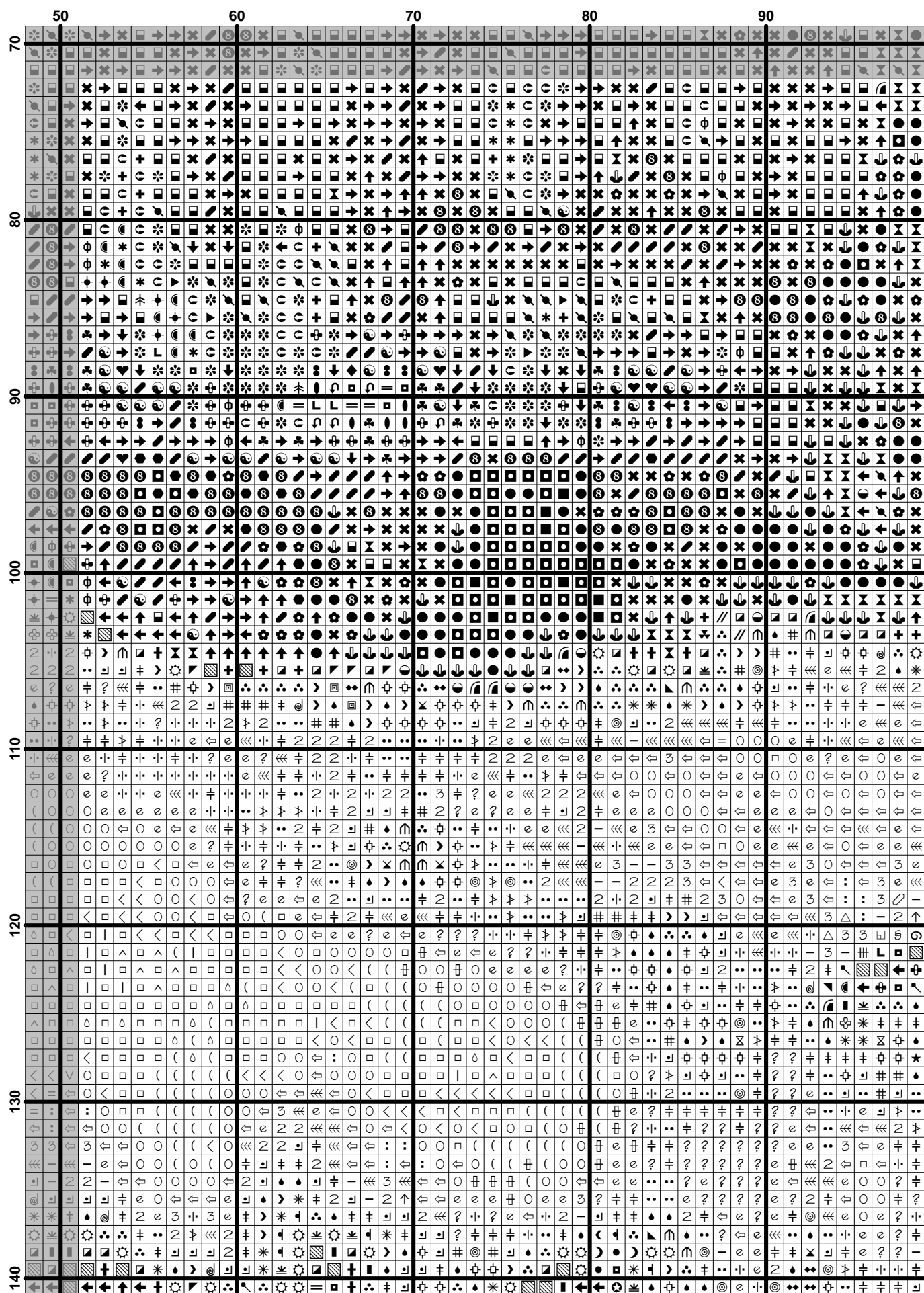
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	100	110	120	130	140
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120					
130					
140					

	150										160										170										180										190									
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(18)

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170	⬆	⬆	⬆	⬆	⬆
180	⬆	⬆	⬆	⬆	⬆
190	⬆	⬆	⬆	⬆	⬆
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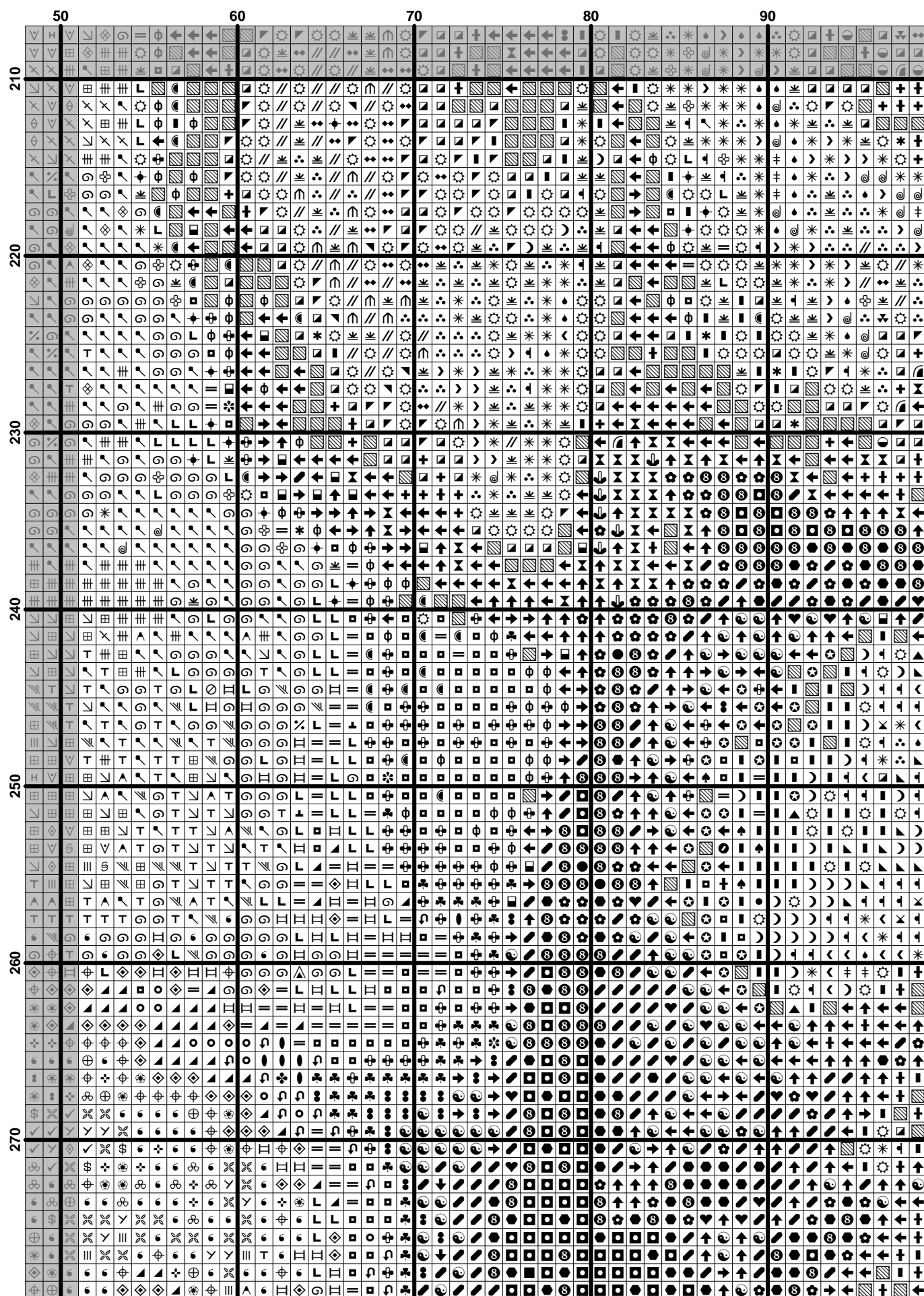
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180	?	?	?	?	?
190	?	?	?	?	?
200	?	?	?	?	?
210	?	?	?	?	?

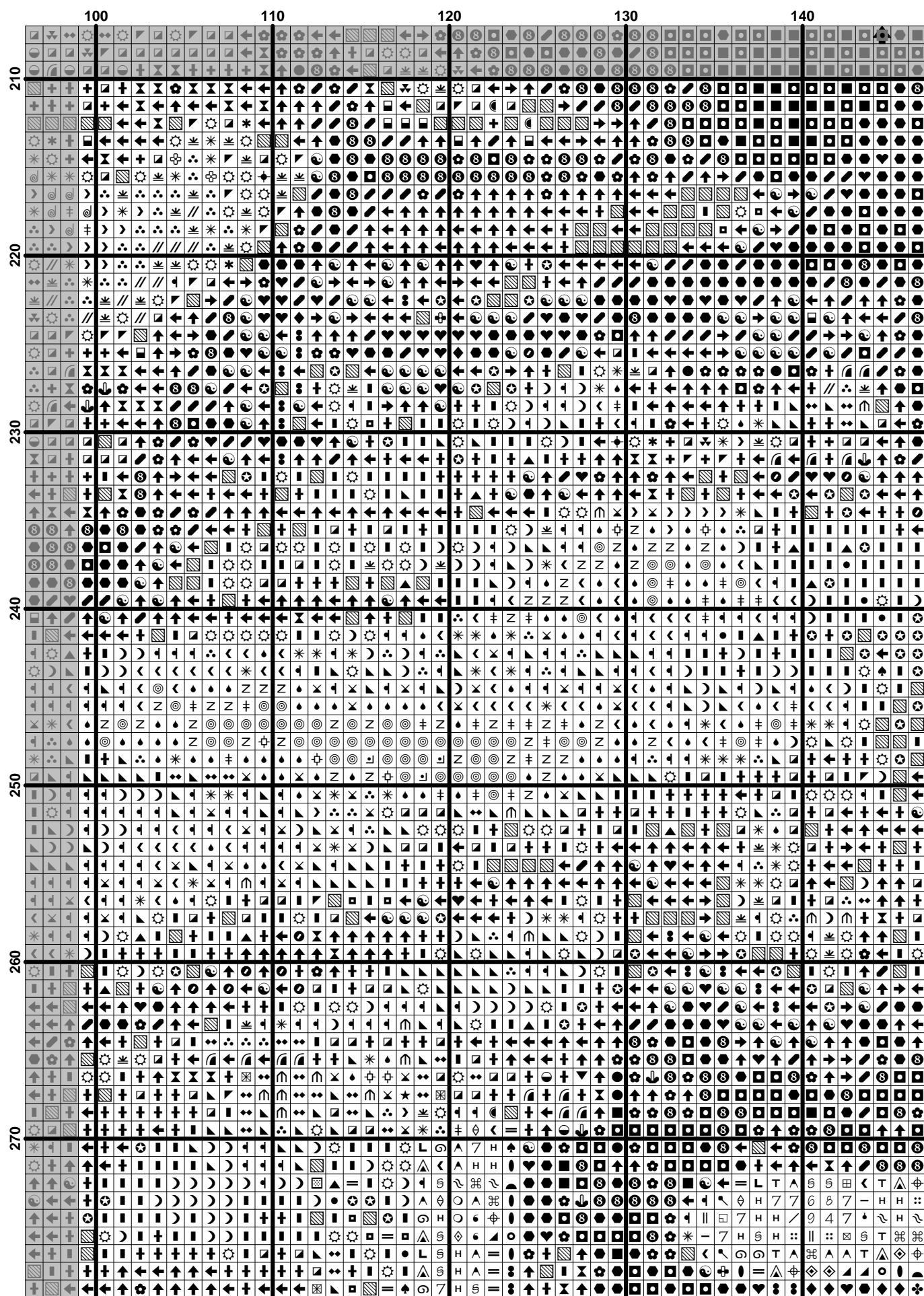
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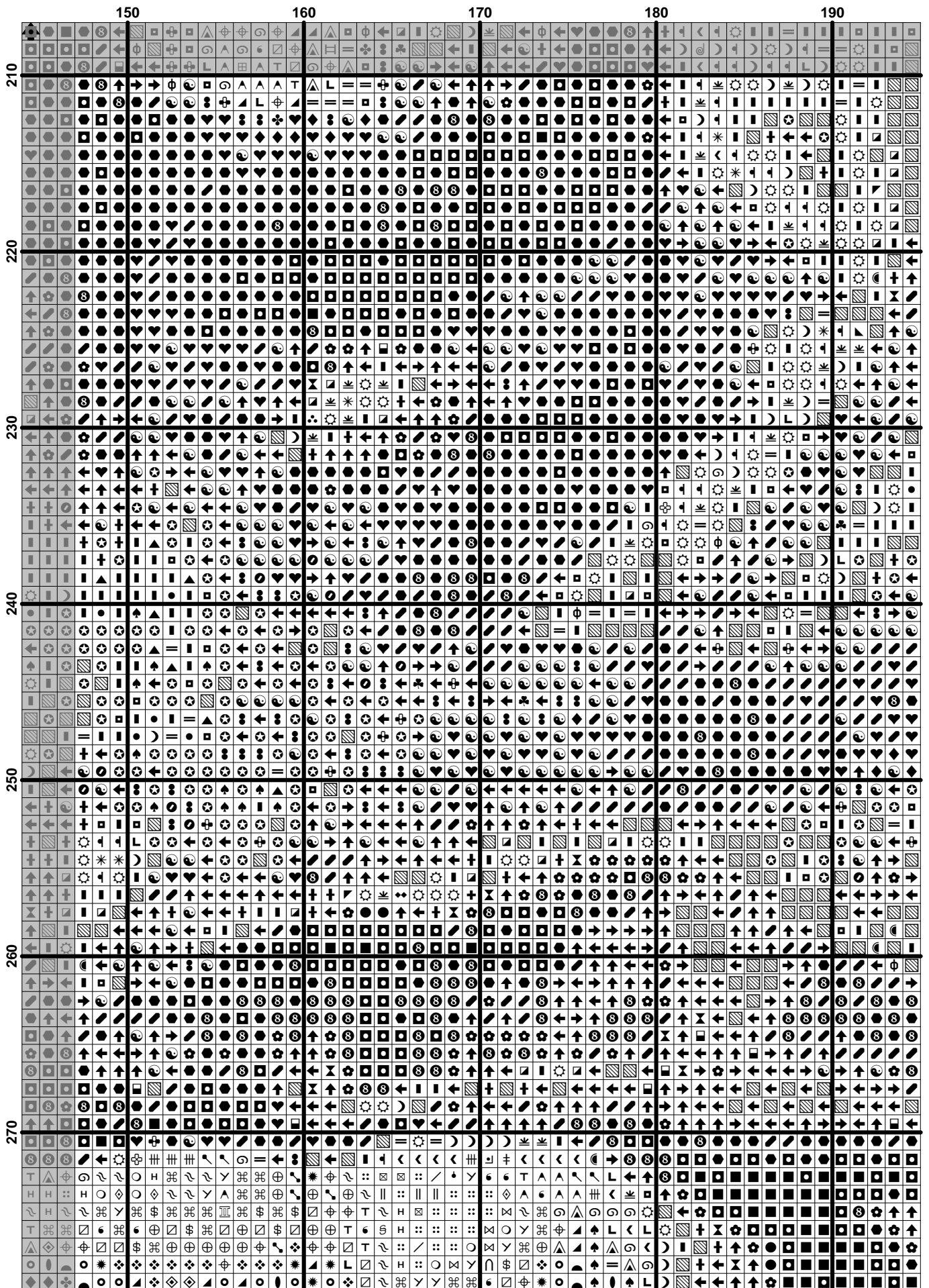
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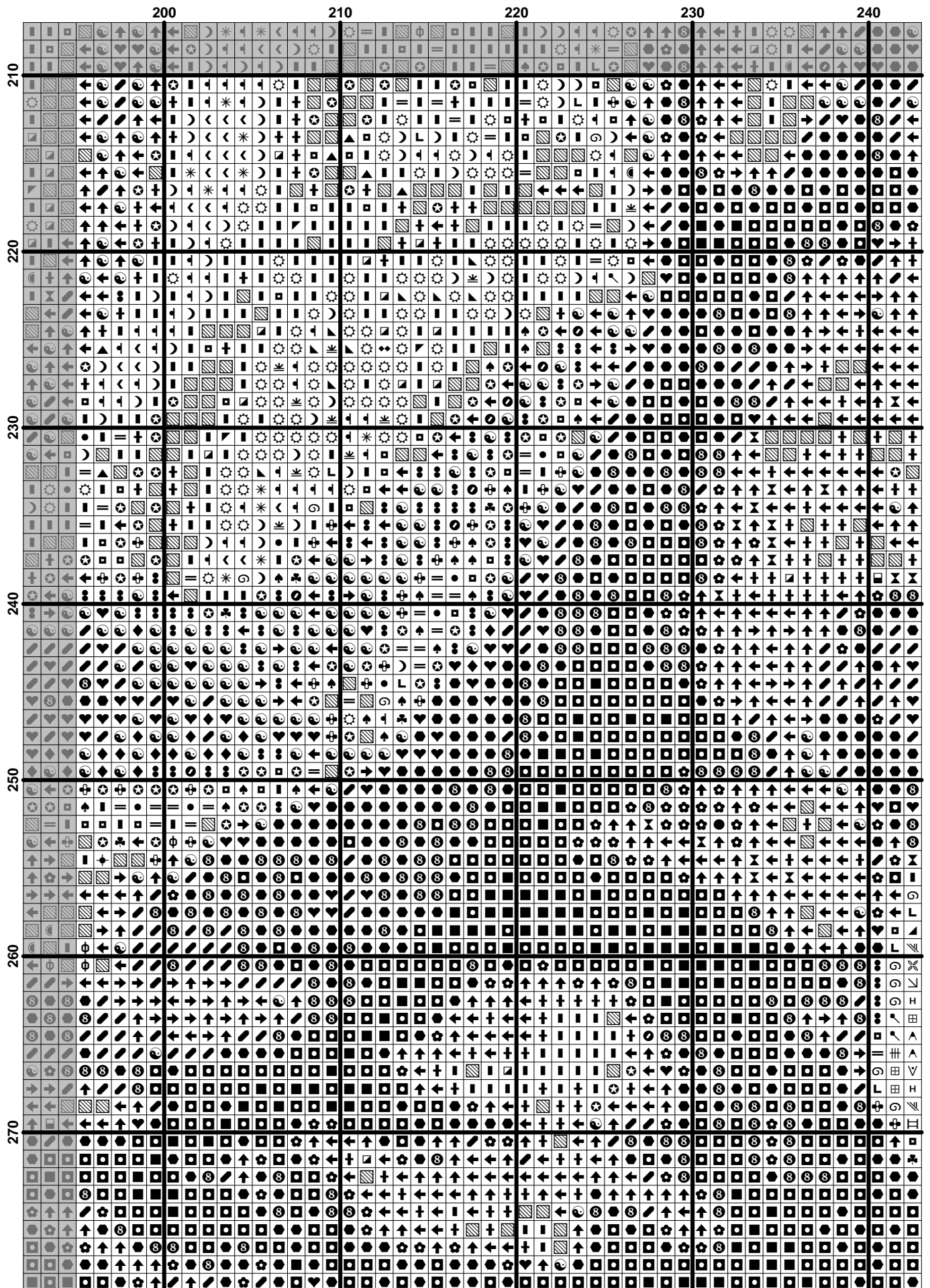
[illegible]

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





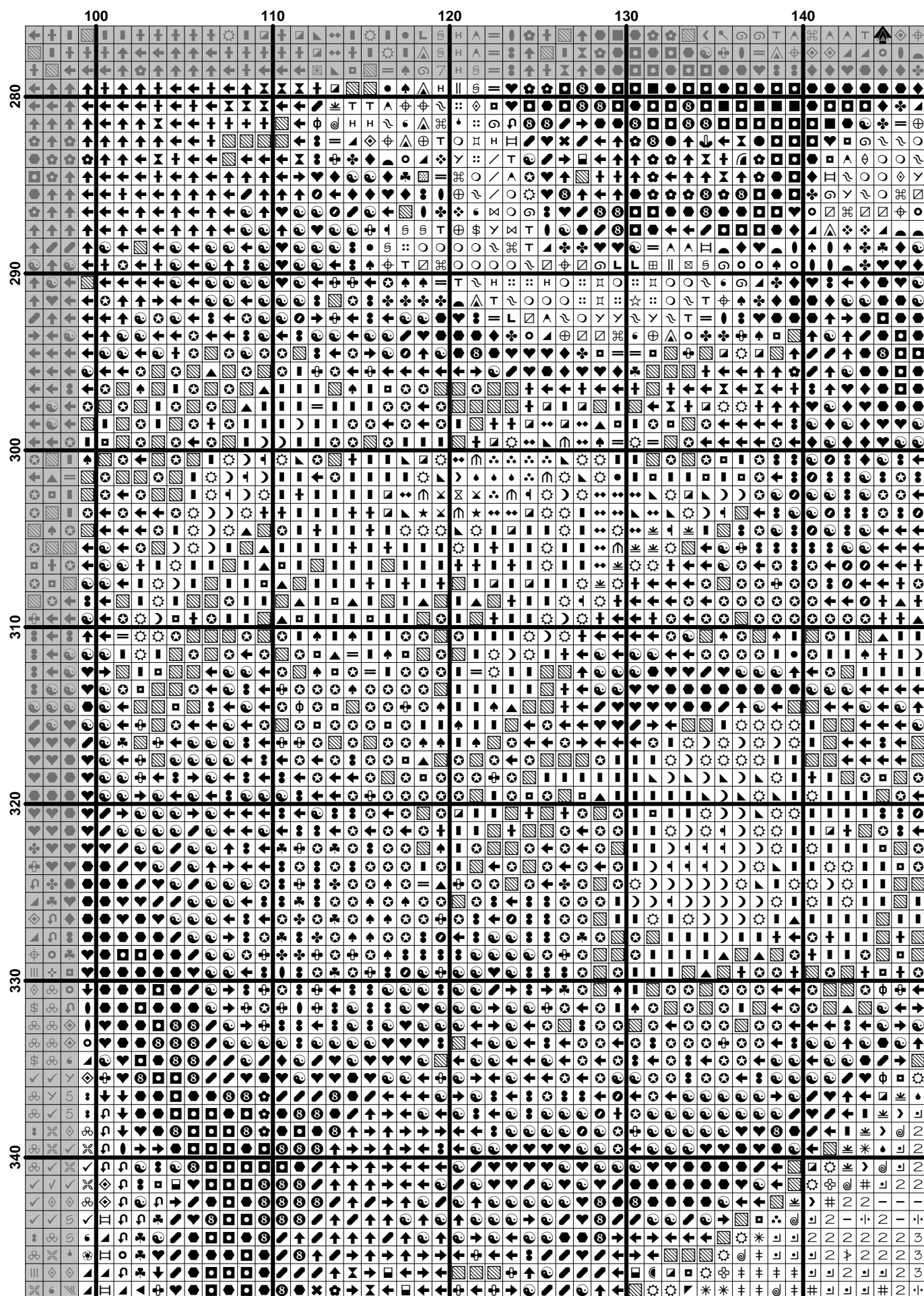


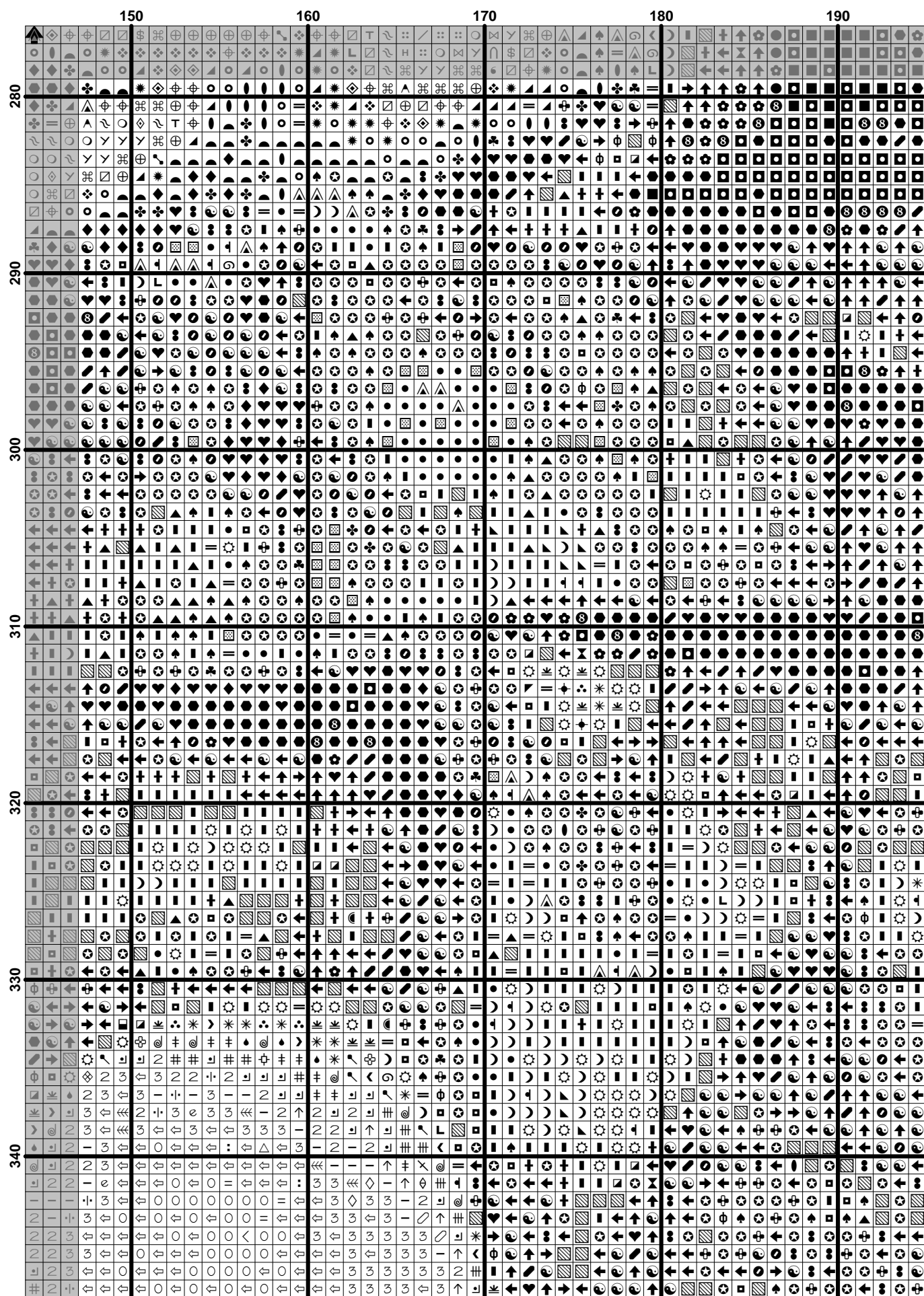


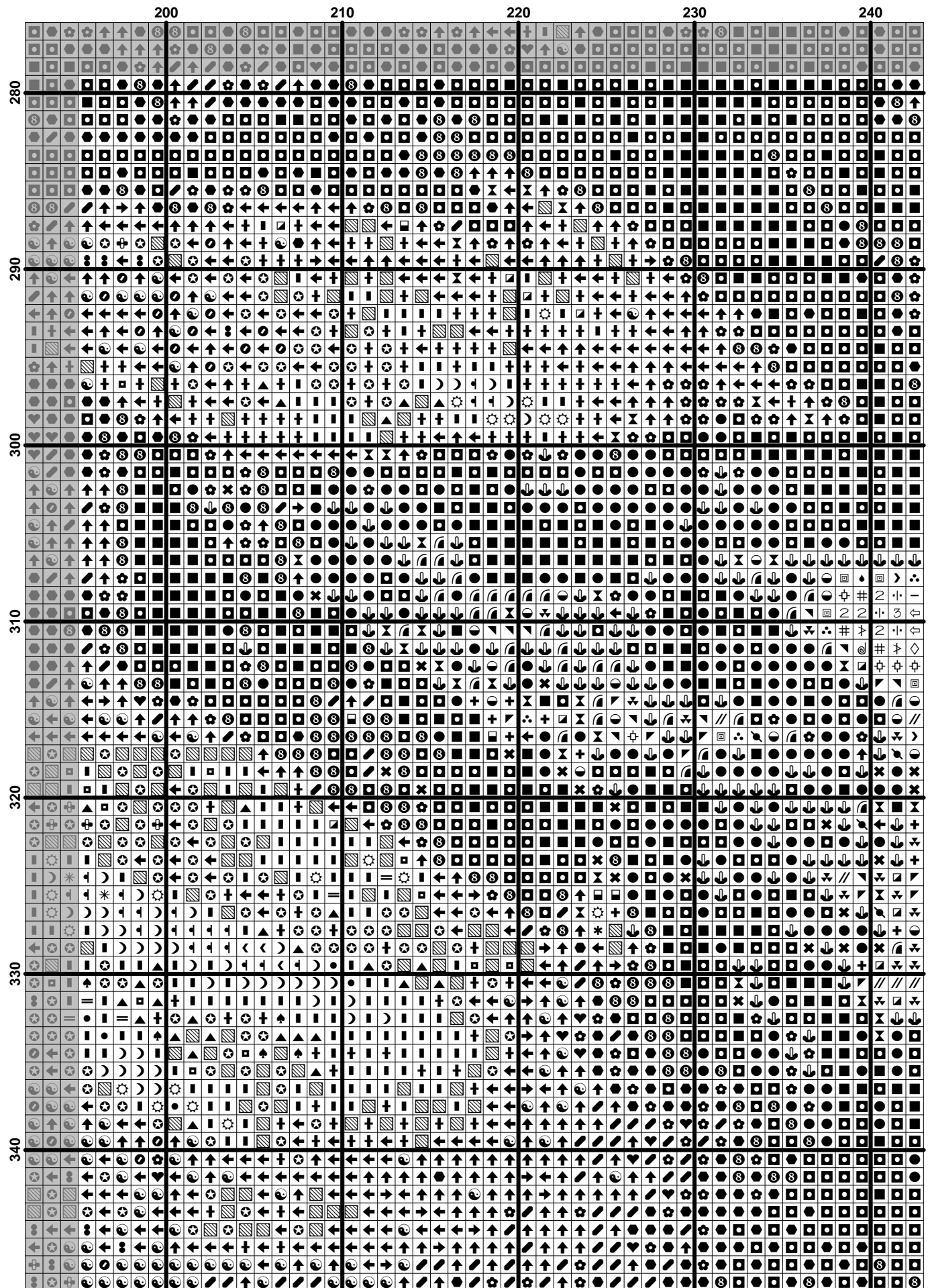
(30)

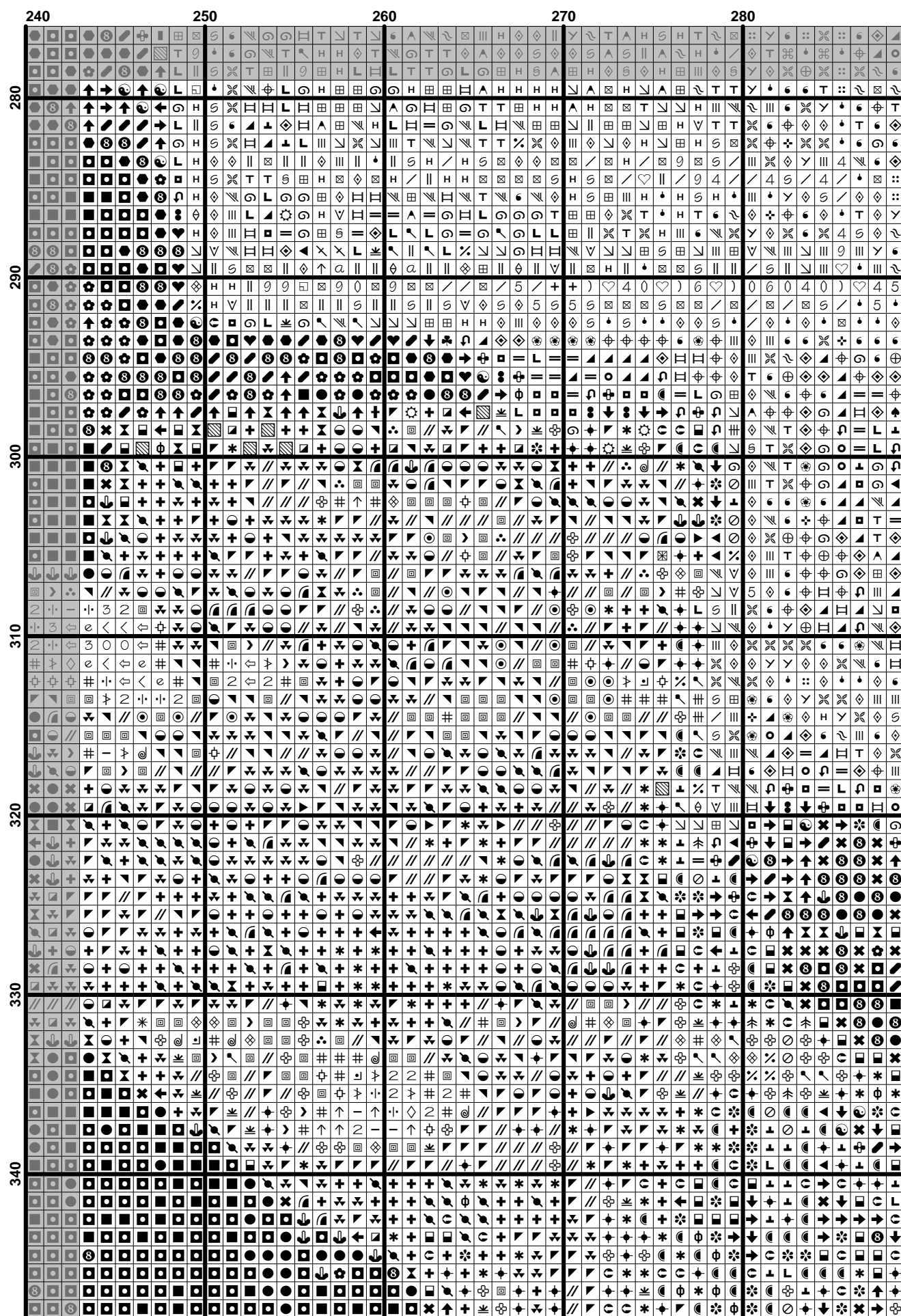
[illegible]

	50	60	70	80	90
280
290
300
310
320
330
340









[illegible]

