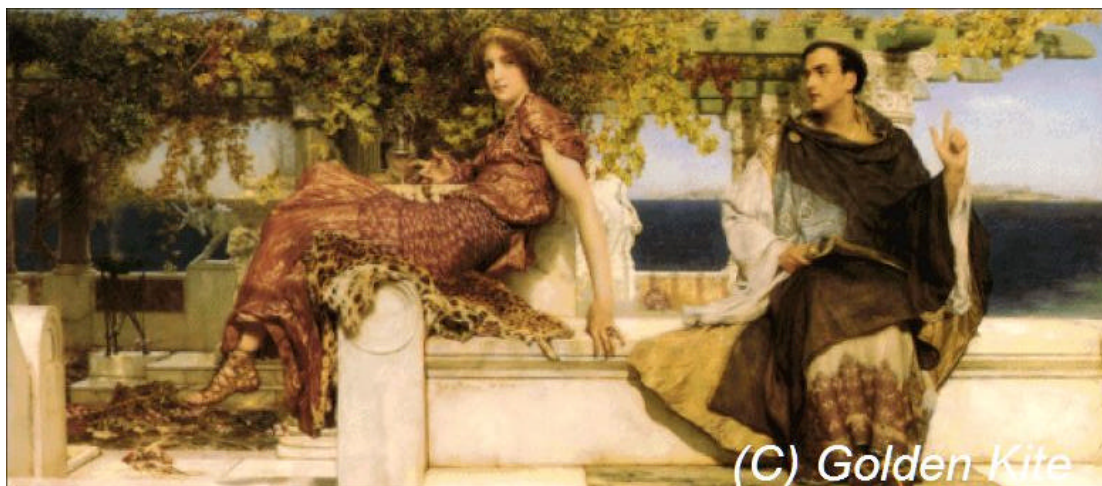


1271 The Conversion of Paula



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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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The Conversion of Paula

Stitch Count	
Horizontal:	560
Vertical:	244

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:	102	39.85	45	17.35	89	34.87	39	15.18	79	31	35	13.5
Including Margins:	118	46	61	24	105	41	55	22	95	38	51	20
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	142	55.79	63	24.29	119	46.49	52	20.24	59	23.24	26	10.12
Including Margins:	158	62	79	31	135	53	68	27	75	30	42	17
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	57	22.31	25	9.71	54	21.45	24	9.34	52	20.66	23	8.99
Including Margins:	73	29	41	16	70	28	40	16	68	27	39	15
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	51	19.92	22	8.67	47	18.59	21	8.09	44	17.43	19	7.59
Including Margins:	67	26	38	15	63	25	37	15	60	24	35	14

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
■	310	Black
∅	356	Terra Cotta-MD
×	370	Mustard-MD
↖	371	Mustard
◇	372	Mustard-LT
▼	413	Pewter 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
♣	522	Fern Green
—	524	Fern Green-VY LT
⊙	535	Ash Gray-VY LT
◀	610	Drab Brown-DK
⊕	611	Drab Brown
‡	612	Drab Brown-LT
+	613	Drab Brown-VY LT
▤	632	Desert Sand-UL VY DK
⋈	640	Beige Gray-VY DK
⌘	642	Beige Gray-DK
*	645	Beaver Gray-VY DK
▲	647	Beaver Gray-MD
√	648	Beaver Gray-LT
:	676	Old Gold-LT
▨	680	Old Gold-DK
✕	733	Olive Green-MD
	734	Olive Green-LT
◇	738	Tan-VY LT
•	739	Tan-UL VY LT
u	746	Off White
⊥	762	Pearl Gray-VY LT
⦿	801	Coffee Brown-DK
	822	Beige Gray-LT
⊗	829	Golden Olive-VY DK
⤿	830	Golden Olive-DK
↙	831	Golden Olive-MD
▤	832	Golden Olive
↗	833	Golden Olive-LT

↖	839	Beige Brown-DK
9	842	Beige Brown-VY LT
†	844	Beaver Brown-UL DK
+	869	Hazelnut Brown-VY DK
⊗	898	Coffee Brown-VY DK
⋈	927	Gray Green-LT
7	928	Gray Green-VY LT
●	934	Black Avocado Green
⊗	938	Coffee Brown-UL DK
=	945	Tawny
o	948	Peach-VY LT
⊕	950	Desert Sand-LT
^	951	Tawny-LT
▲	975	Golden Brown-DK
∇	977	Golden Brown-LT
✕	3011	Khaki Green-DK
⊗	3012	Khaki Green-MD
⊕	3013	Khaki Green-LT
⊕	3022	Brown Gray-MD
♥	3031	Mocha Brown-VY DK
⊙	3045	Yellow Beige-DK
↔	3046	Yellow Beige-MD
⊕	3052	Green Gray-MD
■	3371	Black Brown
△	3743	Antique Violet-VY LT
e	3752	Antique Blue-VY LT
<	3753	Antique Blue-UL VY LT
«	3770	Tawny-VY LT
⊙	3772	Desert Sand-VY DK
⌒	3774	Desert Sand-VY LT
♣	3781	Mocha Brown-DK
▶	3787	Brown Gray-DK
♦	3790	Beige Gray-UL DK
◆	3799	Pewter Gray-VY DK
·	3820	Straw-DK
n	3823	Yellow-UL Pale
5	3827	Golden Brown-Pale
↘	3828	Hazelnut Brown
♣	3829	Old Gold-VY DK
#	3852	Straw-VY DK
∅	3856	Mahogany-UL VY LT
*	3862	Mocha Beige-DK
2	3864	Mocha Beige-LT

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
♣	844	Beaver Brown-UL DK	3021	Brown Gray-VY DK
▷	3855	Autumn Gold-LT	3856	Mahogany-UL VY LT
○	436	Tan	437	Tan-LT
⊕	436	Tan	3776	Mahogany-LT

c	738	Tan-VY LT	3856	Mahogany-UL VY LT
ı	640	Beige Gray-VY DK	642	Beige Gray-DK
ı	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
◊	950	Desert Sand-LT	3774	Desert Sand-VY LT
♡	739	Tan-UL VY LT	945	Tawny
н	927	Gray Green-LT	928	Gray Green-VY LT
⌂	838	Beige Brown-VY DK	839	Beige Brown-DK
⌂	317	Pewter Gray	926	Gray Green-MD
▲	3721	Shell Pink-DK	3772	Desert Sand-VY DK
II	927	Gray Green-LT	932	Antique Blue-LT
H	420	Hazelnut Brown-DK	680	Old Gold-DK
≡	3013	Khaki Green-LT	3046	Yellow Beige-MD
●	934	Black Avocado Green	3031	Mocha Brown-VY DK
⬢	934	Black Avocado Green	3799	Pewter Gray-VY DK
✕	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
⌂	3721	Shell Pink-DK	632	Desert Sand-UL VY DK
c	317	Pewter Gray	413	Pewter Gray-DK
..	734	Olive Green-LT	3045	Yellow Beige-DK
o	420	Hazelnut Brown-DK	632	Desert Sand-UL VY DK
⬢	420	Hazelnut Brown-DK	3828	Hazelnut Brown
✕	833	Golden Olive-LT	977	Golden Brown-LT
⌂	371	Mustard	640	Beige Gray-VY DK
↓	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
←	839	Beige Brown-DK	3021	Brown Gray-VY DK
⬢	356	Terra Cotta-MD	436	Tan
✕	356	Terra Cotta-MD	3772	Desert Sand-VY DK
♠	436	Tan	3772	Desert Sand-VY DK
⇒	3743	Antique Violet-VY LT	3753	Antique Blue-UL VY LT
=	420	Hazelnut Brown-DK	434	Brown-LT
♠	434	Brown-LT	3721	Shell Pink-DK
▼	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
\$	356	Terra Cotta-MD	977	Golden Brown-LT
≡	977	Golden Brown-LT	3828	Hazelnut Brown
α	3825	Pumpkin-Pale	3856	Mahogany-UL VY LT
☐	413	Pewter Gray-DK	3799	Pewter Gray-VY DK
⌂	926	Gray Green-MD	927	Gray Green-LT
□	754	Peach-LT	951	Tawny-LT
v	739	Tan-UL VY LT	950	Desert Sand-LT
§	3864	Mocha Beige-LT	642	Beige Gray-DK
↑	801	Coffee Brown-DK	838	Beige Brown-VY DK
ı	413	Pewter Gray-DK	3768	Gray Green-DK
)	3743	Antique Violet-VY LT	762	Pearl Gray-VY LT
✂	370	Mustard-MD	420	Hazelnut Brown-DK
☐	420	Hazelnut Brown-DK	3721	Shell Pink-DK
◊	420	Hazelnut Brown-DK	3012	Khaki Green-MD
⌂	3830	Terra Cotta-MD	435	Brown-VY LT
∞	3823	Yellow-UL Pale	951	Tawny-LT
н	3856	Mahogany-UL VY LT	437	Tan-LT
⊕	435	Brown-VY LT	3828	Hazelnut Brown
III	733	Olive Green-MD	734	Olive Green-LT
1	746	Off White	3770	Tawny-VY LT
●	317	Pewter Gray	645	Beaver Gray-VY DK
↑	422	Hazelnut Brown-LT	436	Tan
›	831	Golden Olive-MD	733	Olive Green-MD
✕	3363	Pine Green-MD	645	Beaver Gray-VY DK
☐	831	Golden Olive-MD	832	Golden Olive
❖	3011	Khaki Green-DK	3012	Khaki Green-MD
Φ	3011	Khaki Green-DK	3781	Mocha Brown-DK
m	3827	Golden Brown-Pale	977	Golden Brown-LT

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⬆	3012	Khaki Green-MD	3862	Mocha Beige-DK
☒	3825	Pumpkin-Pale	436	Tan
~	3770	Tawny-VY LT	948	Peach-VY LT
::	3752	Antique Blue-VY LT	932	Antique Blue-LT
*	926	Gray Green-MD	522	Fern Green
▨	3862	Mocha Beige-DK	3021	Brown Gray-VY DK
∩	435	Brown-VY LT	977	Golden Brown-LT
☉	680	Old Gold-DK	977	Golden Brown-LT
z	733	Olive Green-MD	3012	Khaki Green-MD
✱	420	Hazelnut Brown-DK	898	Coffee Brown-VY DK
➔	937	Avocado Green-MD	3031	Mocha Brown-VY DK
⊕	3011	Khaki Green-DK	936	Avocado Green-VY DK
?	524	Fern Green-VY LT	842	Beige Brown-VY LT
✓	647	Beaver Gray-MD	524	Fern Green-VY LT
~	842	Beige Brown-VY LT	3864	Mocha Beige-LT
⌘	611	Drab Brown	830	Golden Olive-DK
⤴	436	Tan	734	Olive Green-LT
☛	838	Beige Brown-VY DK	898	Coffee Brown-VY DK
田	372	Mustard-LT	642	Beige Gray-DK
3	3825	Pumpkin-Pale	3827	Golden Brown-Pale
L	3826	Golden Brown	435	Brown-VY LT
▲	435	Brown-VY LT	3721	Shell Pink-DK
◀	3776	Mahogany-LT	435	Brown-VY LT
//	3776	Mahogany-LT	3830	Terra Cotta-MD
☯	801	Coffee Brown-DK	3857	Rosewood-DK
▣	434	Brown-LT	632	Desert Sand-UL VY DK
⚓	676	Old Gold-LT	3856	Mahogany-UL VY LT
>	754	Peach-LT	3855	Autumn Gold-LT
⚖	436	Tan	3827	Golden Brown-Pale
☒	3827	Golden Brown-Pale	422	Hazelnut Brown-LT
▲	420	Hazelnut Brown-DK	611	Drab Brown
●	632	Desert Sand-UL VY DK	3857	Rosewood-DK
◁	3820	Straw-DK	3827	Golden Brown-Pale
4	3743	Antique Violet-VY LT	3752	Antique Blue-VY LT
0	3033	Mocha Brown-VY LT	3743	Antique Violet-VY LT
L	3743	Antique Violet-VY LT	3072	Beaver Gray-VY LT
∅	415	Pearl Gray	842	Beige Brown-VY LT
(	3033	Mocha Brown-VY LT	762	Pearl Gray-VY LT
☛	3768	Gray Green-DK	3799	Pewter Gray-VY DK
τ	371	Mustard	733	Olive Green-MD
⊕	733	Olive Green-MD	612	Drab Brown-LT
✓	3820	Straw-DK	733	Olive Green-MD
✱	832	Golden Olive	869	Hazelnut Brown-VY DK
8	3743	Antique Violet-VY LT	842	Beige Brown-VY LT
★	3011	Khaki Green-DK	3347	Yellow Green-MD
4	3827	Golden Brown-Pale	733	Olive Green-MD
/	739	Tan-UL VY LT	372	Mustard-LT
6	746	Off White	762	Pearl Gray-VY LT
⚙	3347	Yellow Green-MD	535	Ash Gray-VY LT
6	945	Tawny	842	Beige Brown-VY LT
•	3820	Straw-DK	977	Golden Brown-LT
↑	948	Peach-VY LT	822	Beige Gray-LT

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	
310	Black	148	58	141	55	127	50
317	Pewter Gray	26	10	25	9	22	8
356	Terra Cotta-MD	230	90	219	86	197	77
370	Mustard-MD	478	188	455	179	410	161
371	Mustard	328	129	312	122	281	110
372	Mustard-LT	245	96	233	91	210	82
413	Pewter Gray-DK	137	53	131	51	118	46
415	Pearl Gray	57	22	54	21	49	19
420	Hazelnut Brown-DK	1669	657	1589	625	1430	562
422	Hazelnut Brown-LT	563	221	536	211	482	189
433	Brown-MD	161	63	154	60	138	54
434	Brown-LT	329	129	313	123	282	111
435	Brown-VY LT	658	259	626	246	564	222
436	Tan	750	295	715	281	643	253
437	Tan-LT	326	128	310	122	279	109
522	Fern Green	44	17	42	16	37	14
524	Fern Green-VY LT	138	54	131	51	118	46
535	Ash Gray-VY LT	129	50	122	48	110	43
610	Drab Brown-DK	487	191	463	182	417	164
611	Drab Brown	554	218	528	207	475	187
612	Drab Brown-LT	335	131	319	125	287	112
613	Drab Brown-VY LT	31	12	29	11	26	10
632	Desert Sand-UL VY DK	789	310	752	296	676	266
640	Beige Gray-VY DK	177	69	168	66	151	59
642	Beige Gray-DK	218	85	208	81	187	73
645	Beaver Gray-VY DK	88	34	84	33	75	29
647	Beaver Gray-MD	65	25	62	24	56	22
648	Beaver Gray-LT	36	14	35	13	31	12
676	Old Gold-LT	109	42	104	40	94	37
680	Old Gold-DK	256	100	244	96	219	86
733	Olive Green-MD	654	257	623	245	560	220
734	Olive Green-LT	327	128	311	122	280	110
738	Tan-VY LT	667	262	635	250	572	225
739	Tan-UL VY LT	322	126	307	120	276	108
746	Off White	399	157	380	149	342	134
754	Peach-LT	381	150	363	142	327	128
762	Pearl Gray-VY LT	843	331	802	315	722	284
801	Coffee Brown-DK	563	221	537	211	483	190
822	Beige Gray-LT	249	98	237	93	213	83
829	Golden Olive-VY DK	124	48	118	46	106	41
830	Golden Olive-DK	500	196	476	187	429	168
831	Golden Olive-MD	264	103	252	99	226	88
832	Golden Olive	268	105	255	100	229	90
833	Golden Olive-LT	176	69	168	66	151	59
838	Beige Brown-VY DK	613	241	584	229	525	206
839	Beige Brown-DK	611	240	582	229	524	206
842	Beige Brown-VY LT	398	156	379	149	341	134
844	Beaver Brown-UL DK	205	80	195	76	175	68
869	Hazelnut Brown-VY DK	260	102	247	97	223	87
898	Coffee Brown-VY DK	665	261	633	249	570	224
926	Gray Green-MD	40	15	38	14	34	13
927	Gray Green-LT	67	26	63	24	57	22
928	Gray Green-VY LT	37	14	36	14	32	12

932	Antique Blue-LT	24	9	23	9	21	8
934	Black Avocado Green	1051	413	1001	394	900	354
936	Avocado Green-VY DK	96	37	92	36	82	32
937	Avocado Green-MD	174	68	165	64	149	58
938	Coffee Brown-UL DK	705	277	671	264	604	237
945	Tawny	505	198	481	189	433	170
948	Peach-VY LT	1315	517	1252	492	1127	443
950	Desert Sand-LT	127	50	121	47	109	42
951	Tawny-LT	1006	396	958	377	862	339
975	Golden Brown-DK	86	33	82	32	74	29
977	Golden Brown-LT	551	216	525	206	472	185
3011	Khaki Green-DK	618	243	588	231	529	208
3012	Khaki Green-MD	533	209	508	200	457	179
3013	Khaki Green-LT	141	55	135	53	121	47
3021	Brown Gray-VY DK	909	357	865	340	779	306
3022	Brown Gray-MD	34	13	32	12	29	11
3031	Mocha Brown-VY DK	1956	770	1863	733	1677	660
3033	Mocha Brown-VY LT	210	82	200	78	180	70
3045	Yellow Beige-DK	369	145	351	138	316	124
3046	Yellow Beige-MD	127	50	121	47	109	42
3052	Green Gray-MD	42	16	40	15	36	14
3072	Beaver Gray-VY LT	46	18	43	16	39	15
3347	Yellow Green-MD	43	16	41	16	37	14
3363	Pine Green-MD	33	12	31	12	28	11
3371	Black Brown	692	272	659	259	593	233
3721	Shell Pink-DK	376	148	358	140	323	127
3743	Antique Violet-VY LT	394	155	375	147	337	132
3752	Antique Blue-VY LT	125	49	119	46	107	42
3753	Antique Blue-UL VY LT	215	84	205	80	185	72
3768	Gray Green-DK	32	12	31	12	27	10
3770	Tawny-VY LT	1082	425	1030	405	927	364
3772	Desert Sand-VY DK	277	109	263	103	237	93
3774	Desert Sand-VY LT	275	108	262	103	236	92
3776	Mahogany-LT	95	37	90	35	81	31
3781	Mocha Brown-DK	925	364	881	346	793	312
3787	Brown Gray-DK	67	26	63	24	57	22
3790	Beige Gray-UL DK	87	34	83	32	74	29
3799	Pewter Gray-VY DK	853	335	813	320	731	287
3820	Straw-DK	209	82	199	78	179	70
3823	Yellow-UL Pale	610	240	581	228	523	205
3825	Pumpkin-Pale	88	34	83	32	75	29
3826	Golden Brown	26	10	25	9	23	9
3827	Golden Brown-Pale	526	207	501	197	451	177
3828	Hazelnut Brown	693	272	660	259	594	233
3829	Old Gold-VY DK	38	14	36	14	32	12
3830	Terra Cotta-MD	82	32	78	30	70	27
3852	Straw-VY DK	50	19	48	18	43	16
3855	Autumn Gold-LT	260	102	248	97	223	87
3856	Mahogany-UL VY LT	610	240	580	228	522	205
3857	Rosewood-DK	241	94	229	90	206	81
3862	Mocha Beige-DK	385	151	367	144	330	129
3864	Mocha Beige-LT	302	118	288	113	259	101

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
310	Black	229	90	191	75	95	38
317	Pewter Gray	40	14	33	12	17	6
356	Terra Cotta-MD	355	139	296	116	148	58
370	Mustard-MD	738	290	615	242	308	121
371	Mustard	506	198	422	165	211	83
372	Mustard-LT	378	148	315	123	158	62
413	Pewter Gray-DK	212	83	177	69	89	35
415	Pearl Gray	88	34	74	29	37	14
420	Hazelnut Brown-DK	2574	1012	2145	843	1073	422
422	Hazelnut Brown-LT	868	340	723	284	362	142
433	Brown-MD	248	97	207	81	104	41
434	Brown-LT	508	200	423	167	212	83
435	Brown-VY LT	1015	400	846	333	423	167
436	Tan	1157	455	965	380	482	190
437	Tan-LT	502	196	419	164	209	82
522	Fern Green	67	25	56	21	28	11
524	Fern Green-VY LT	212	83	177	69	89	35
535	Ash Gray-VY LT	198	77	165	65	83	32
610	Drab Brown-DK	751	295	626	246	313	123
611	Drab Brown	855	337	713	281	356	140
612	Drab Brown-LT	517	202	431	168	215	84
613	Drab Brown-VY LT	47	18	39	15	20	8
632	Desert Sand-UL VY DK	1217	479	1014	399	507	200
640	Beige Gray-VY DK	272	106	227	89	113	44
642	Beige Gray-DK	337	131	281	110	140	55
645	Beaver Gray-VY DK	135	52	113	44	56	22
647	Beaver Gray-MD	101	40	84	33	42	17
648	Beaver Gray-LT	56	22	47	18	23	9
676	Old Gold-LT	169	67	141	56	71	28
680	Old Gold-DK	394	155	329	129	164	65
733	Olive Green-MD	1008	396	840	330	420	165
734	Olive Green-LT	504	198	420	165	210	83
738	Tan-VY LT	1030	405	858	338	429	169
739	Tan-UL VY LT	497	194	414	162	207	81
746	Off White	616	241	513	201	257	101
754	Peach-LT	589	230	491	192	245	96
762	Pearl Gray-VY LT	1300	511	1083	426	542	213
801	Coffee Brown-DK	869	342	725	285	362	143
822	Beige Gray-LT	383	149	320	125	160	62
829	Golden Olive-VY DK	191	74	159	62	80	31
830	Golden Olive-DK	772	302	644	252	322	126
831	Golden Olive-MD	407	158	339	132	170	66
832	Golden Olive	412	162	344	135	172	68
833	Golden Olive-LT	272	106	227	89	113	44
838	Beige Brown-VY DK	945	371	788	309	394	155
839	Beige Brown-DK	943	371	786	309	393	155
842	Beige Brown-VY LT	614	241	512	201	256	101
844	Beaver Brown-UL DK	315	122	263	102	131	51
869	Hazelnut Brown-VY DK	401	157	335	131	167	65
898	Coffee Brown-VY DK	1026	403	855	336	428	168
926	Gray Green-MD	61	23	51	20	26	10
927	Gray Green-LT	103	40	86	33	43	17
928	Gray Green-VY LT	58	22	48	18	24	9

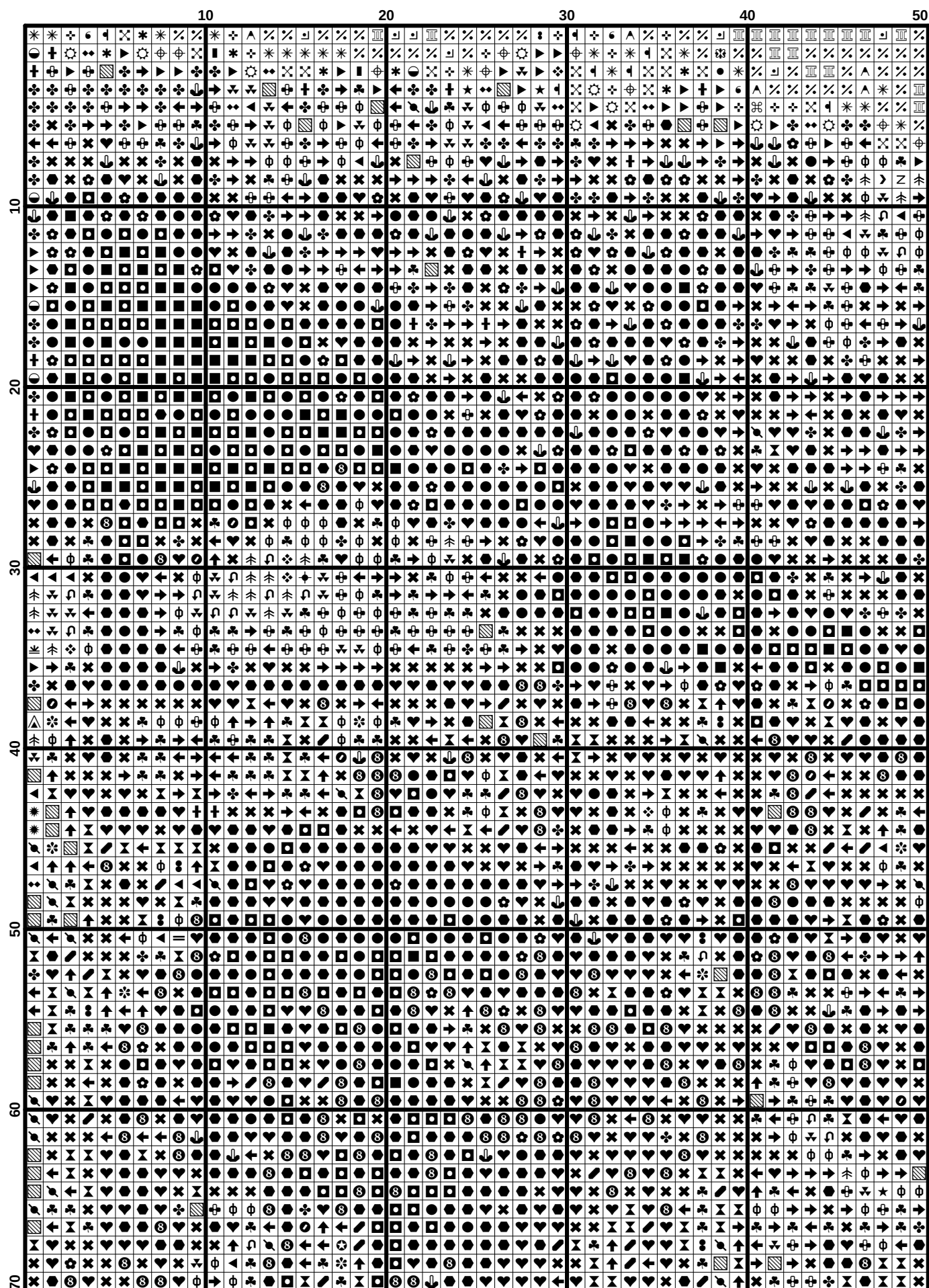
932	Antique Blue-LT	38	14	32	12	16	6
934	Black Avocado Green	1620	637	1350	531	675	266
936	Avocado Green-VY DK	148	58	123	48	62	24
937	Avocado Green-MD	268	104	224	87	112	44
938	Coffee Brown-UL DK	1087	427	906	356	453	178
945	Tawny	779	306	650	255	325	128
948	Peach-VY LT	2029	797	1691	665	845	332
950	Desert Sand-LT	196	76	164	63	82	32
951	Tawny-LT	1552	610	1293	509	647	254
975	Golden Brown-DK	133	52	111	44	56	22
977	Golden Brown-LT	850	333	708	278	354	139
3011	Khaki Green-DK	952	374	794	312	397	156
3012	Khaki Green-MD	823	322	686	269	343	134
3013	Khaki Green-LT	218	85	182	71	91	35
3021	Brown Gray-VY DK	1402	551	1169	459	584	230
3022	Brown Gray-MD	52	20	44	17	22	8
3031	Mocha Brown-VY DK	3019	1188	2516	990	1258	495
3033	Mocha Brown-VY LT	324	126	270	105	135	53
3045	Yellow Beige-DK	569	223	474	186	237	93
3046	Yellow Beige-MD	196	76	164	63	82	32
3052	Green Gray-MD	65	25	54	21	27	11
3072	Beaver Gray-VY LT	70	27	59	23	29	11
3347	Yellow Green-MD	67	25	56	21	28	11
3363	Pine Green-MD	50	20	42	17	21	8
3371	Black Brown	1067	419	890	350	445	175
3721	Shell Pink-DK	581	229	485	191	242	95
3743	Antique Violet-VY LT	607	238	506	198	253	99
3752	Antique Blue-VY LT	193	76	161	63	80	32
3753	Antique Blue-UL VY LT	333	130	278	108	139	54
3768	Gray Green-DK	49	18	41	15	20	8
3770	Tawny-VY LT	1669	655	1391	546	695	273
3772	Desert Sand-VY DK	427	167	356	140	178	70
3774	Desert Sand-VY LT	425	166	354	138	177	69
3776	Mahogany-LT	146	56	122	47	61	23
3781	Mocha Brown-DK	1427	562	1190	468	595	234
3787	Brown Gray-DK	103	40	86	33	43	17
3790	Beige Gray-UL DK	133	52	111	44	56	22
3799	Pewter Gray-VY DK	1316	517	1097	431	548	215
3820	Straw-DK	322	126	269	105	134	53
3823	Yellow-UL Pale	941	369	785	308	392	154
3825	Pumpkin-Pale	135	52	113	44	56	22
3826	Golden Brown	41	16	35	14	17	7
3827	Golden Brown-Pale	812	319	677	266	338	133
3828	Hazelnut Brown	1069	419	891	350	446	175
3829	Old Gold-VY DK	58	22	48	18	24	9
3830	Terra Cotta-MD	126	49	105	41	53	20
3852	Straw-VY DK	77	29	65	24	32	12
3855	Autumn Gold-LT	401	157	335	131	167	65
3856	Mahogany-UL VY LT	940	369	783	308	392	154
3857	Rosewood-DK	371	146	309	122	155	61
3862	Mocha Beige-DK	594	232	495	194	248	97
3864	Mocha Beige-LT	466	182	389	152	194	76

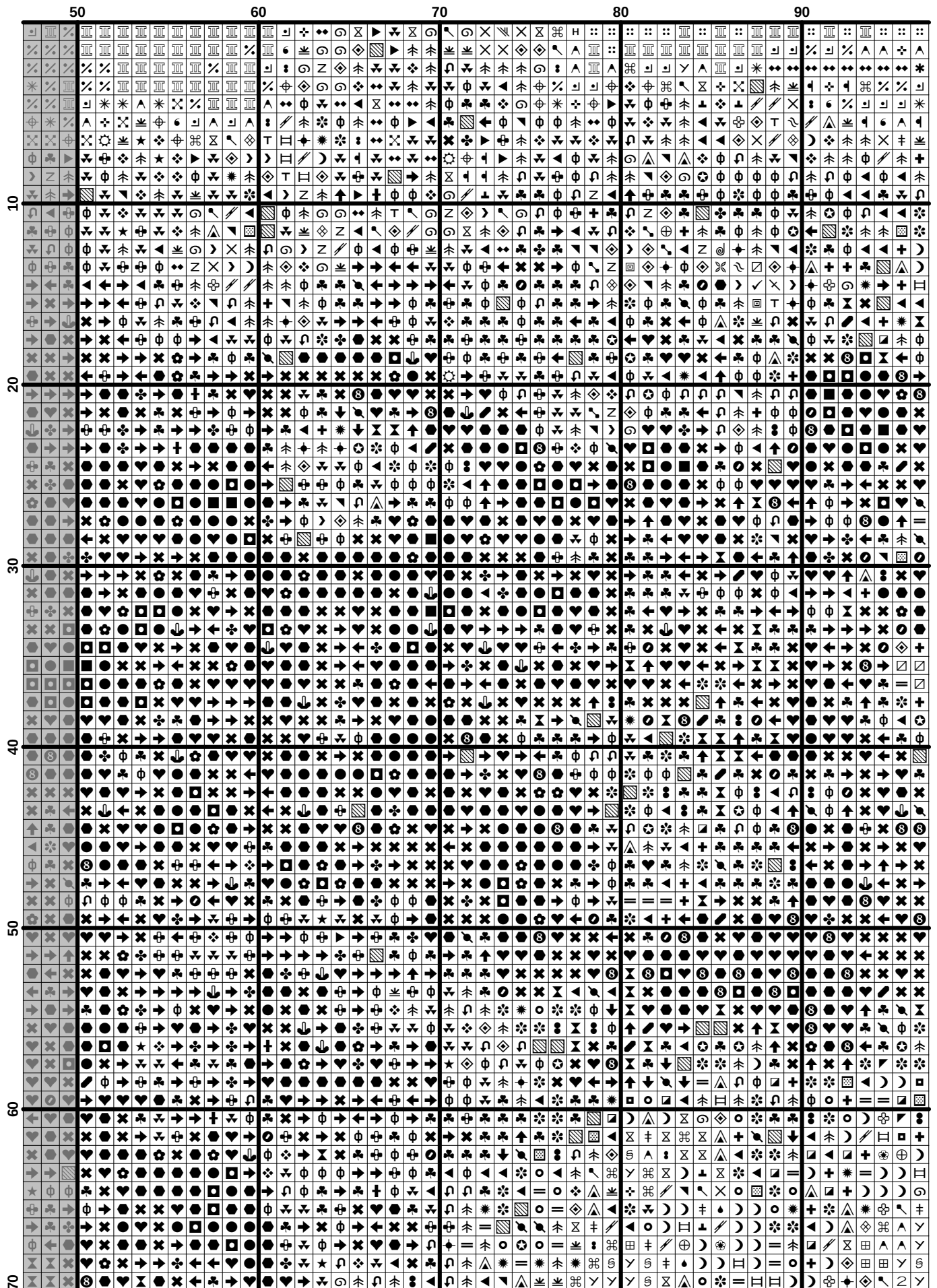
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
310	Black	91	36	88	35	85	33
317	Pewter Gray	16	6	15	6	15	5
356	Terra Cotta-MD	142	55	136	53	131	51
370	Mustard-MD	295	116	284	111	273	107
371	Mustard	202	79	195	76	187	73
372	Mustard-LT	151	59	145	57	140	55
413	Pewter Gray-DK	85	33	82	32	79	31
415	Pearl Gray	35	14	34	13	33	13
420	Hazelnut Brown-DK	1030	405	990	389	953	375
422	Hazelnut Brown-LT	347	136	334	131	321	126
433	Brown-MD	99	39	96	37	92	36
434	Brown-LT	203	80	195	77	188	74
435	Brown-VY LT	406	160	390	154	376	148
436	Tan	463	182	445	175	429	169
437	Tan-LT	201	78	193	75	186	73
522	Fern Green	27	10	26	10	25	9
524	Fern Green-VY LT	85	33	82	32	79	31
535	Ash Gray-VY LT	79	31	76	30	73	29
610	Drab Brown-DK	300	118	289	114	278	109
611	Drab Brown	342	135	329	129	317	125
612	Drab Brown-LT	207	81	199	78	191	75
613	Drab Brown-VY LT	19	7	18	7	17	7
632	Desert Sand-UL VY DK	487	192	468	184	451	177
640	Beige Gray-VY DK	109	42	105	41	101	39
642	Beige Gray-DK	135	53	129	51	125	49
645	Beaver Gray-VY DK	54	21	52	20	50	19
647	Beaver Gray-MD	40	16	39	15	37	15
648	Beaver Gray-LT	22	9	21	8	21	8
676	Old Gold-LT	68	27	65	26	63	25
680	Old Gold-DK	158	62	152	60	146	57
733	Olive Green-MD	403	158	388	152	373	147
734	Olive Green-LT	202	79	194	76	187	73
738	Tan-VY LT	412	162	396	156	381	150
739	Tan-UL VY LT	199	78	191	75	184	72
746	Off White	246	96	237	93	228	89
754	Peach-LT	235	92	226	89	218	85
762	Pearl Gray-VY LT	520	204	500	197	481	189
801	Coffee Brown-DK	348	137	334	132	322	127
822	Beige Gray-LT	153	60	147	57	142	55
829	Golden Olive-VY DK	76	30	73	28	71	27
830	Golden Olive-DK	309	121	297	116	286	112
831	Golden Olive-MD	163	63	156	61	151	59
832	Golden Olive	165	65	159	62	153	60
833	Golden Olive-LT	109	42	105	41	101	39
838	Beige Brown-VY DK	378	148	363	143	350	137
839	Beige Brown-DK	377	148	363	143	349	137
842	Beige Brown-VY LT	246	96	236	93	227	89
844	Beaver Brown-UL DK	126	49	121	47	117	45
869	Hazelnut Brown-VY DK	161	63	154	60	149	58
898	Coffee Brown-VY DK	410	161	395	155	380	149
926	Gray Green-MD	24	9	24	9	23	9
927	Gray Green-LT	41	16	39	15	38	15
928	Gray Green-VY LT	23	9	22	8	21	8

932	Antique Blue-LT	15	6	15	6	14	5
934	Black Avocado Green	648	255	623	245	600	236
936	Avocado Green-VY DK	59	23	57	22	55	21
937	Avocado Green-MD	107	42	103	40	99	39
938	Coffee Brown-UL DK	435	171	418	164	403	158
945	Tawny	312	122	300	118	289	113
948	Peach-VY LT	811	319	780	307	751	295
950	Desert Sand-LT	78	30	75	29	73	28
951	Tawny-LT	621	244	597	235	575	226
975	Golden Brown-DK	53	21	51	20	49	19
977	Golden Brown-LT	340	133	327	128	315	123
3011	Khaki Green-DK	381	150	366	144	353	139
3012	Khaki Green-MD	329	129	316	124	305	119
3013	Khaki Green-LT	87	34	84	33	81	31
3021	Brown Gray-VY DK	561	220	539	212	519	204
3022	Brown Gray-MD	21	8	20	8	19	7
3031	Mocha Brown-VY DK	1207	475	1161	457	1118	440
3033	Mocha Brown-VY LT	130	50	125	48	120	47
3045	Yellow Beige-DK	228	89	219	86	211	83
3046	Yellow Beige-MD	78	30	75	29	73	28
3052	Green Gray-MD	26	10	25	10	24	9
3072	Beaver Gray-VY LT	28	11	27	10	26	10
3347	Yellow Green-MD	27	10	26	10	25	9
3363	Pine Green-MD	20	8	19	8	19	7
3371	Black Brown	427	168	411	161	395	155
3721	Shell Pink-DK	233	91	224	88	215	85
3743	Antique Violet-VY LT	243	95	233	91	225	88
3752	Antique Blue-VY LT	77	30	74	29	71	28
3753	Antique Blue-UL VY LT	133	52	128	50	123	48
3768	Gray Green-DK	19	7	19	7	18	7
3770	Tawny-VY LT	667	262	642	252	618	243
3772	Desert Sand-VY DK	171	67	164	64	158	62
3774	Desert Sand-VY LT	170	66	163	64	157	61
3776	Mahogany-LT	58	22	56	21	54	21
3781	Mocha Brown-DK	571	225	549	216	529	208
3787	Brown Gray-DK	41	16	39	15	38	15
3790	Beige Gray-UL DK	53	21	51	20	49	19
3799	Pewter Gray-VY DK	526	207	506	199	487	191
3820	Straw-DK	129	50	124	48	119	47
3823	Yellow-UL Pale	377	148	362	142	349	137
3825	Pumpkin-Pale	54	21	52	20	50	19
3826	Golden Brown	17	6	16	6	15	6
3827	Golden Brown-Pale	325	127	312	123	301	118
3828	Hazelnut Brown	428	168	411	161	396	155
3829	Old Gold-VY DK	23	9	22	8	21	8
3830	Terra Cotta-MD	50	19	48	19	47	18
3852	Straw-VY DK	31	12	30	11	29	11
3855	Autumn Gold-LT	161	63	154	60	149	58
3856	Mahogany-UL VY LT	376	148	361	142	348	137
3857	Rosewood-DK	148	58	143	56	137	54
3862	Mocha Beige-DK	238	93	228	89	220	86
3864	Mocha Beige-LT	186	73	179	70	173	67

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
310	Black	82	32	76	30	71	28
317	Pewter Gray	14	5	13	5	12	5
356	Terra Cotta-MD	127	50	118	46	111	43
370	Mustard-MD	264	104	246	97	231	91
371	Mustard	181	71	169	66	158	62
372	Mustard-LT	135	53	126	49	118	46
413	Pewter Gray-DK	76	30	71	28	66	26
415	Pearl Gray	32	12	29	11	28	11
420	Hazelnut Brown-DK	919	361	858	337	804	316
422	Hazelnut Brown-LT	310	122	289	113	271	106
433	Brown-MD	89	35	83	32	78	30
434	Brown-LT	181	71	169	67	159	62
435	Brown-VY LT	363	143	338	133	317	125
436	Tan	413	163	386	152	362	142
437	Tan-LT	179	70	167	65	157	61
522	Fern Green	24	9	22	8	21	8
524	Fern Green-VY LT	76	30	71	28	66	26
535	Ash Gray-VY LT	71	28	66	26	62	24
610	Drab Brown-DK	268	105	250	98	235	92
611	Drab Brown	305	120	285	112	267	105
612	Drab Brown-LT	185	72	172	67	161	63
613	Drab Brown-VY LT	17	6	16	6	15	6
632	Desert Sand-UL VY DK	435	171	406	160	380	150
640	Beige Gray-VY DK	97	38	91	35	85	33
642	Beige Gray-DK	120	47	112	44	105	41
645	Beaver Gray-VY DK	48	19	45	17	42	16
647	Beaver Gray-MD	36	14	34	13	32	12
648	Beaver Gray-LT	20	8	19	7	17	7
676	Old Gold-LT	60	24	56	22	53	21
680	Old Gold-DK	141	55	131	52	123	48
733	Olive Green-MD	360	141	336	132	315	124
734	Olive Green-LT	180	71	168	66	158	62
738	Tan-VY LT	368	145	343	135	322	127
739	Tan-UL VY LT	177	69	166	65	155	61
746	Off White	220	86	205	80	192	75
754	Peach-LT	210	82	196	77	184	72
762	Pearl Gray-VY LT	464	183	433	170	406	160
801	Coffee Brown-DK	311	122	290	114	272	107
822	Beige Gray-LT	137	53	128	50	120	47
829	Golden Olive-VY DK	68	26	64	25	60	23
830	Golden Olive-DK	276	108	257	101	241	95
831	Golden Olive-MD	145	57	136	53	127	50
832	Golden Olive	147	58	137	54	129	51
833	Golden Olive-LT	97	38	91	35	85	33
838	Beige Brown-VY DK	338	132	315	124	295	116
839	Beige Brown-DK	337	132	314	124	295	116
842	Beige Brown-VY LT	219	86	205	80	192	75
844	Beaver Brown-UL DK	113	44	105	41	98	38
869	Hazelnut Brown-VY DK	143	56	134	52	125	49
898	Coffee Brown-VY DK	366	144	342	134	321	126
926	Gray Green-MD	22	8	20	8	19	7
927	Gray Green-LT	37	14	34	13	32	12
928	Gray Green-VY LT	21	8	19	7	18	7

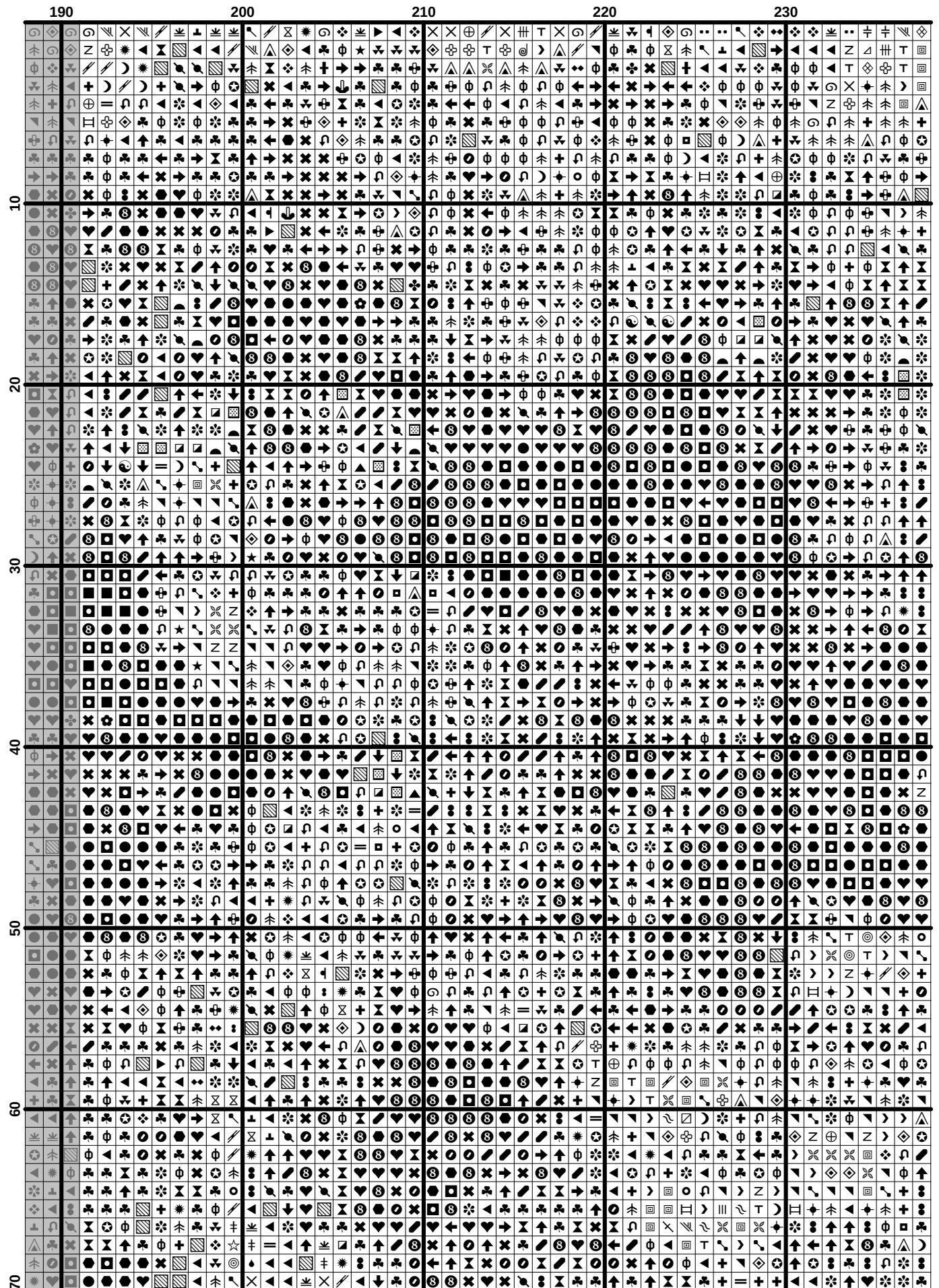
932	Antique Blue-LT	14	5	13	5	12	5
934	Black Avocado Green	579	228	540	212	506	199
936	Avocado Green-VY DK	53	21	49	19	46	18
937	Avocado Green-MD	96	37	89	35	84	33
938	Coffee Brown-UL DK	388	152	362	142	340	133
945	Tawny	278	109	260	102	244	96
948	Peach-VY LT	725	285	676	266	634	249
950	Desert Sand-LT	70	27	65	25	61	24
951	Tawny-LT	554	218	517	203	485	191
975	Golden Brown-DK	48	19	44	17	42	16
977	Golden Brown-LT	303	119	283	111	266	104
3011	Khaki Green-DK	340	134	317	125	298	117
3012	Khaki Green-MD	294	115	274	107	257	101
3013	Khaki Green-LT	78	30	73	28	68	26
3021	Brown Gray-VY DK	501	197	467	184	438	172
3022	Brown Gray-MD	19	7	17	7	16	6
3031	Mocha Brown-VY DK	1078	424	1006	396	943	371
3033	Mocha Brown-VY LT	116	45	108	42	101	39
3045	Yellow Beige-DK	203	80	190	74	178	70
3046	Yellow Beige-MD	70	27	65	25	61	24
3052	Green Gray-MD	23	9	22	8	20	8
3072	Beaver Gray-VY LT	25	10	23	9	22	8
3347	Yellow Green-MD	24	9	22	8	21	8
3363	Pine Green-MD	18	7	17	7	16	6
3371	Black Brown	381	150	356	140	334	131
3721	Shell Pink-DK	208	82	194	76	182	71
3743	Antique Violet-VY LT	217	85	202	79	190	74
3752	Antique Blue-VY LT	69	27	64	25	60	24
3753	Antique Blue-UL VY LT	119	46	111	43	104	41
3768	Gray Green-DK	17	6	16	6	15	6
3770	Tawny-VY LT	596	234	556	218	521	205
3772	Desert Sand-VY DK	152	60	142	56	133	52
3774	Desert Sand-VY LT	152	59	142	55	133	52
3776	Mahogany-LT	52	20	49	19	46	17
3781	Mocha Brown-DK	510	201	476	187	446	176
3787	Brown Gray-DK	37	14	34	13	32	12
3790	Beige Gray-UL DK	48	19	44	17	42	16
3799	Pewter Gray-VY DK	470	185	439	172	411	161
3820	Straw-DK	115	45	107	42	101	39
3823	Yellow-UL Pale	336	132	314	123	294	115
3825	Pumpkin-Pale	48	19	45	17	42	16
3826	Golden Brown	15	6	14	5	13	5
3827	Golden Brown-Pale	290	114	271	106	254	100
3828	Hazelnut Brown	382	150	356	140	334	131
3829	Old Gold-VY DK	21	8	19	7	18	7
3830	Terra Cotta-MD	45	17	42	16	39	15
3852	Straw-VY DK	28	10	26	10	24	9
3855	Autumn Gold-LT	143	56	134	52	125	49
3856	Mahogany-UL VY LT	336	132	313	123	294	115
3857	Rosewood-DK	132	52	124	49	116	46
3862	Mocha Beige-DK	212	83	198	77	186	73
3864	Mocha Beige-LT	167	65	155	61	146	57





$$(15) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

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



$$(18) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

	290	300	310	320	330
10	...	...	...	...	...
20	...	...	...	...	...
30	...	...	...	...	...
40	...	...	...	...	...
50	...	...	...	...	...
60	...	...	...	...	...
70	...	...	...	...	...

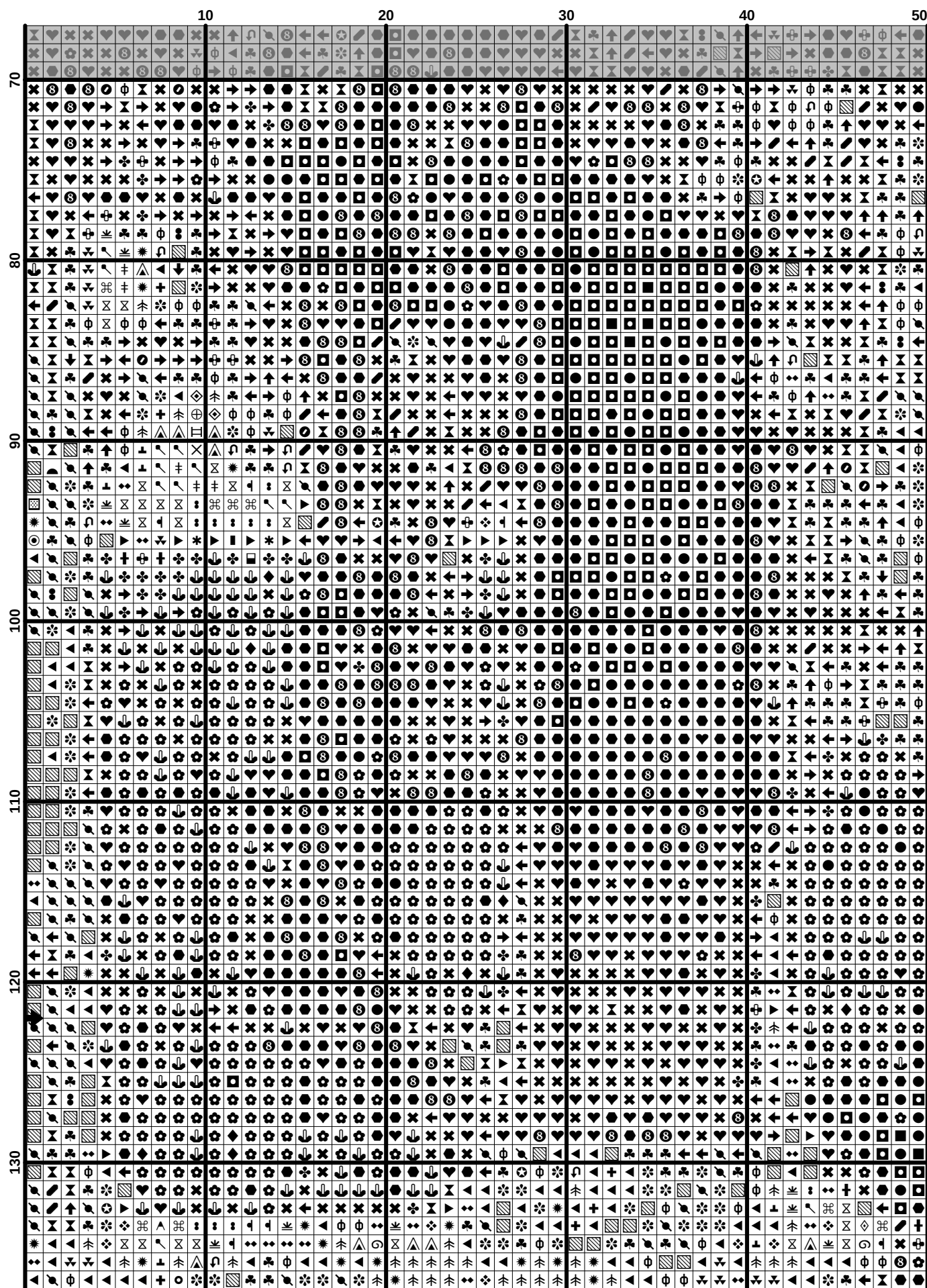
	330	340	350	360	370
10					
20					
30					
40					
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70					

$$(21) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (22)$$

$$(22) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (23)$$

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

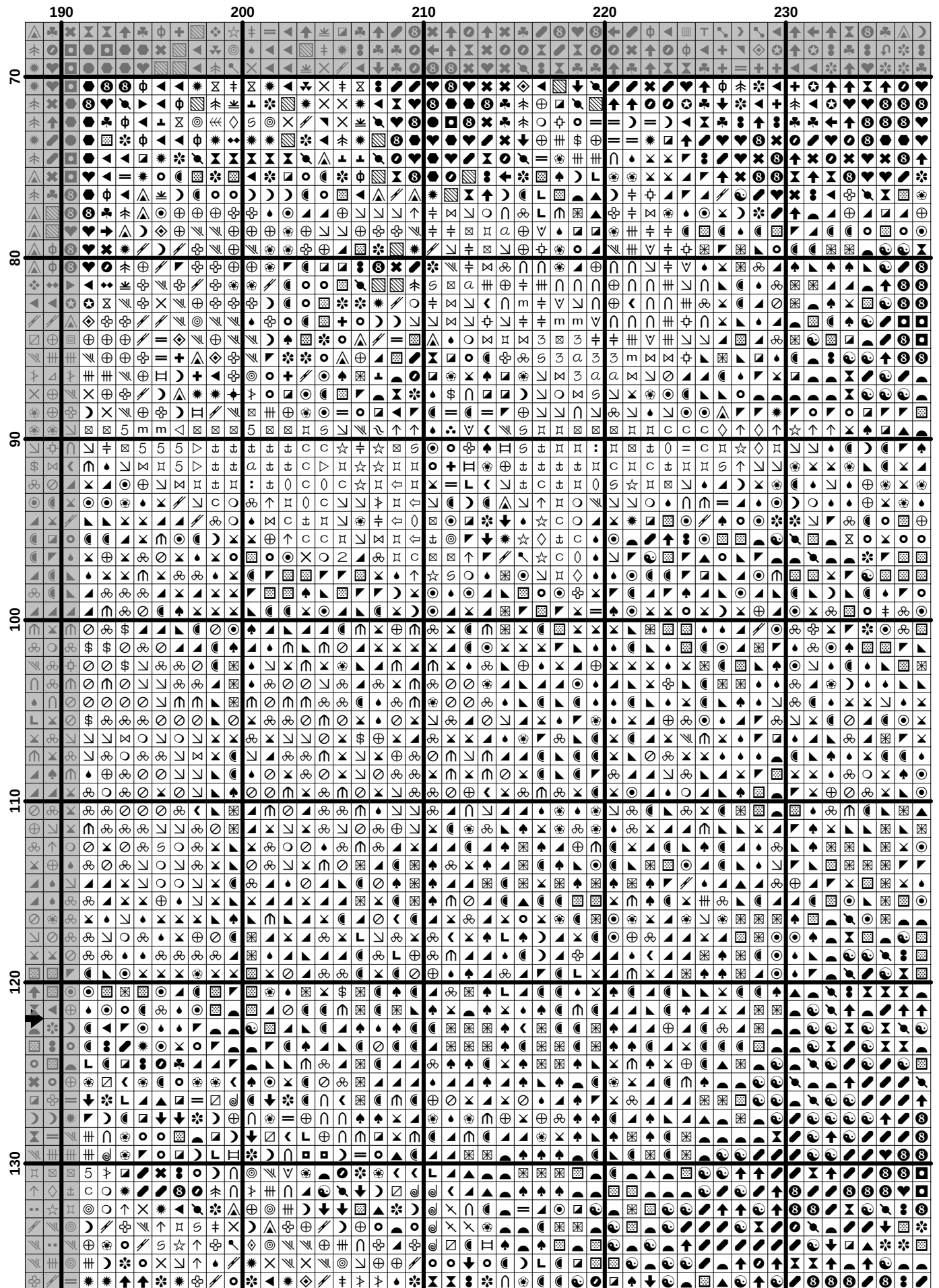
	520	530	540	550	560
10	△	△	△	△	△
20	△	△	△	△	△
30	△	△	△	△	△
40	△	△	△	△	△
50	△	△	△	△	△
60	△	△	△	△	△
70	△	△	△	△	△



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

$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

$$(28) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (29)$$

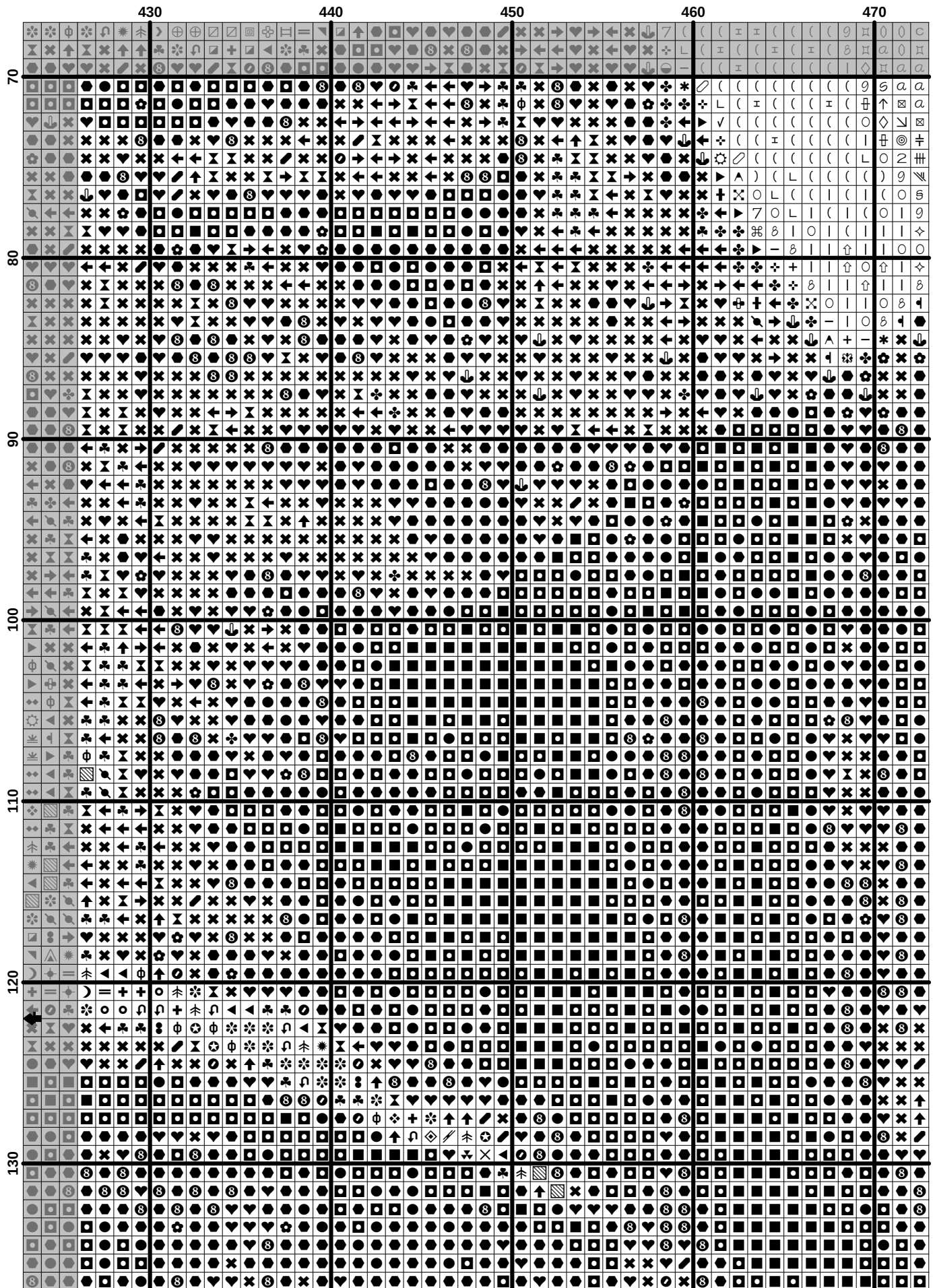


$$(30) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \cup \mathcal{L}(\mathcal{C}) \quad (31)$$

[illegible]

(33)

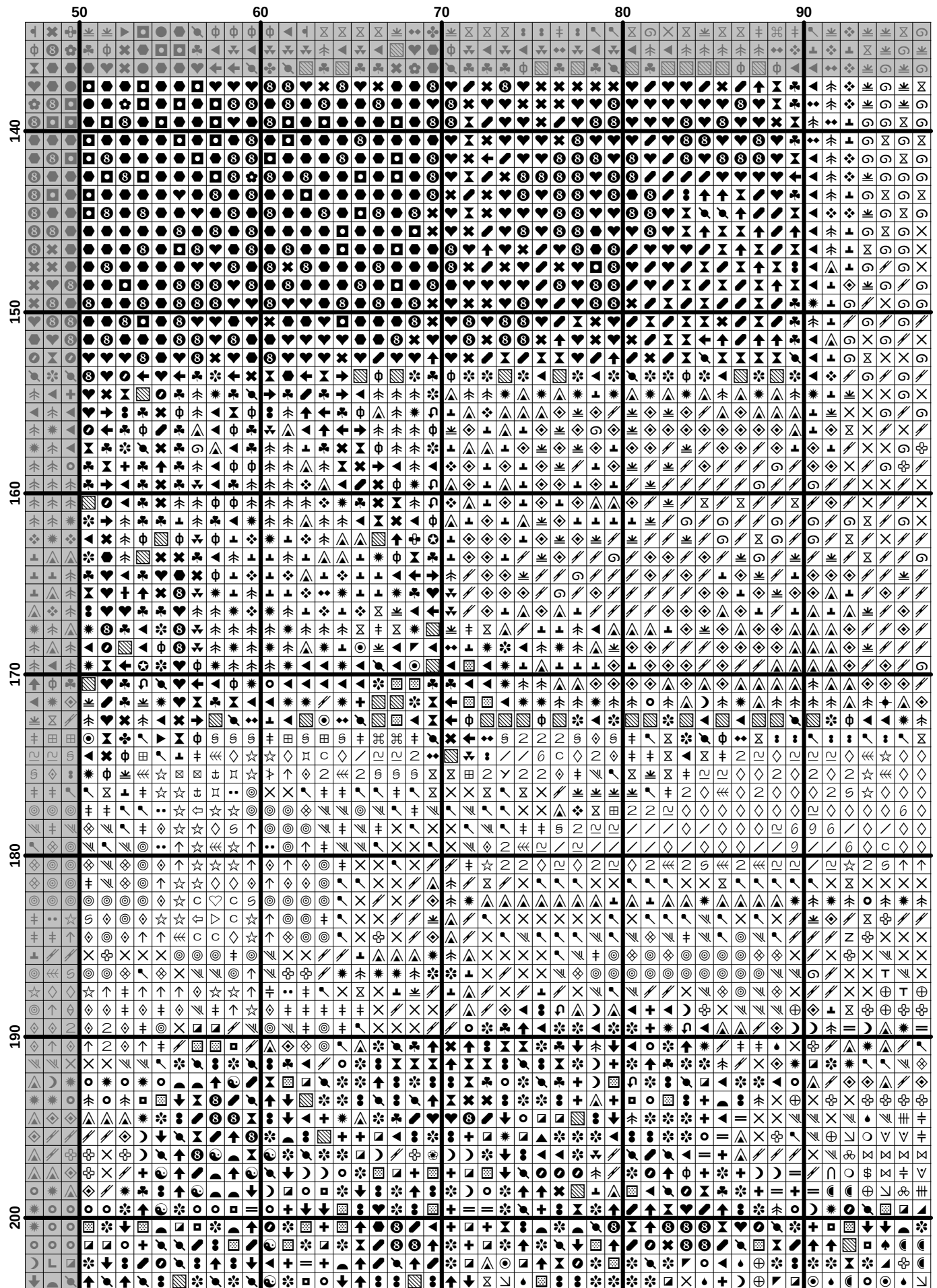
$$(33) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (34)$$

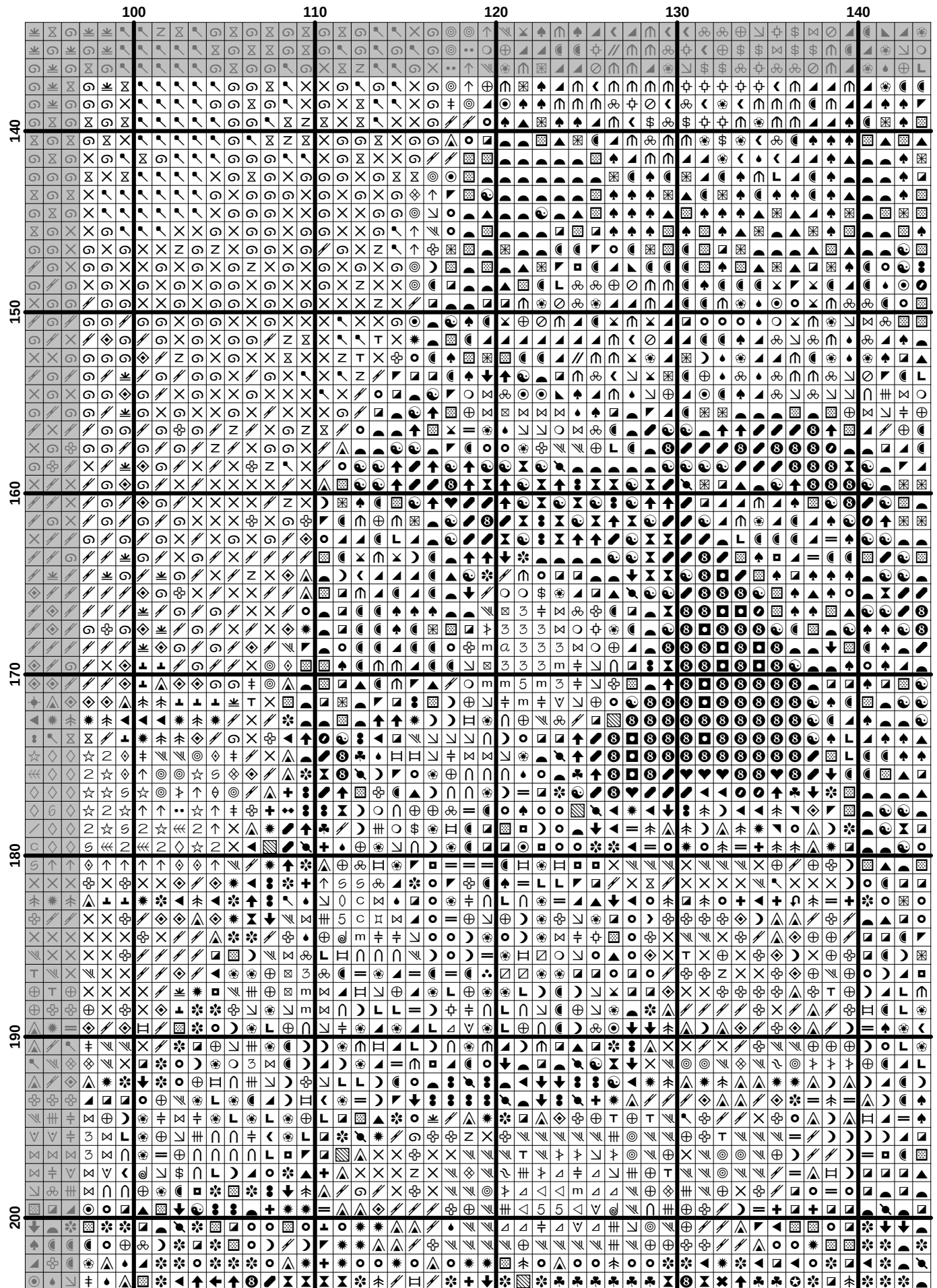


[illegible]

(36)

	10	20	30	40	50
140	...	...	...	...	...
150	...	...	...	...	...
160	...	...	...	...	...
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200	...	...	...	...	...





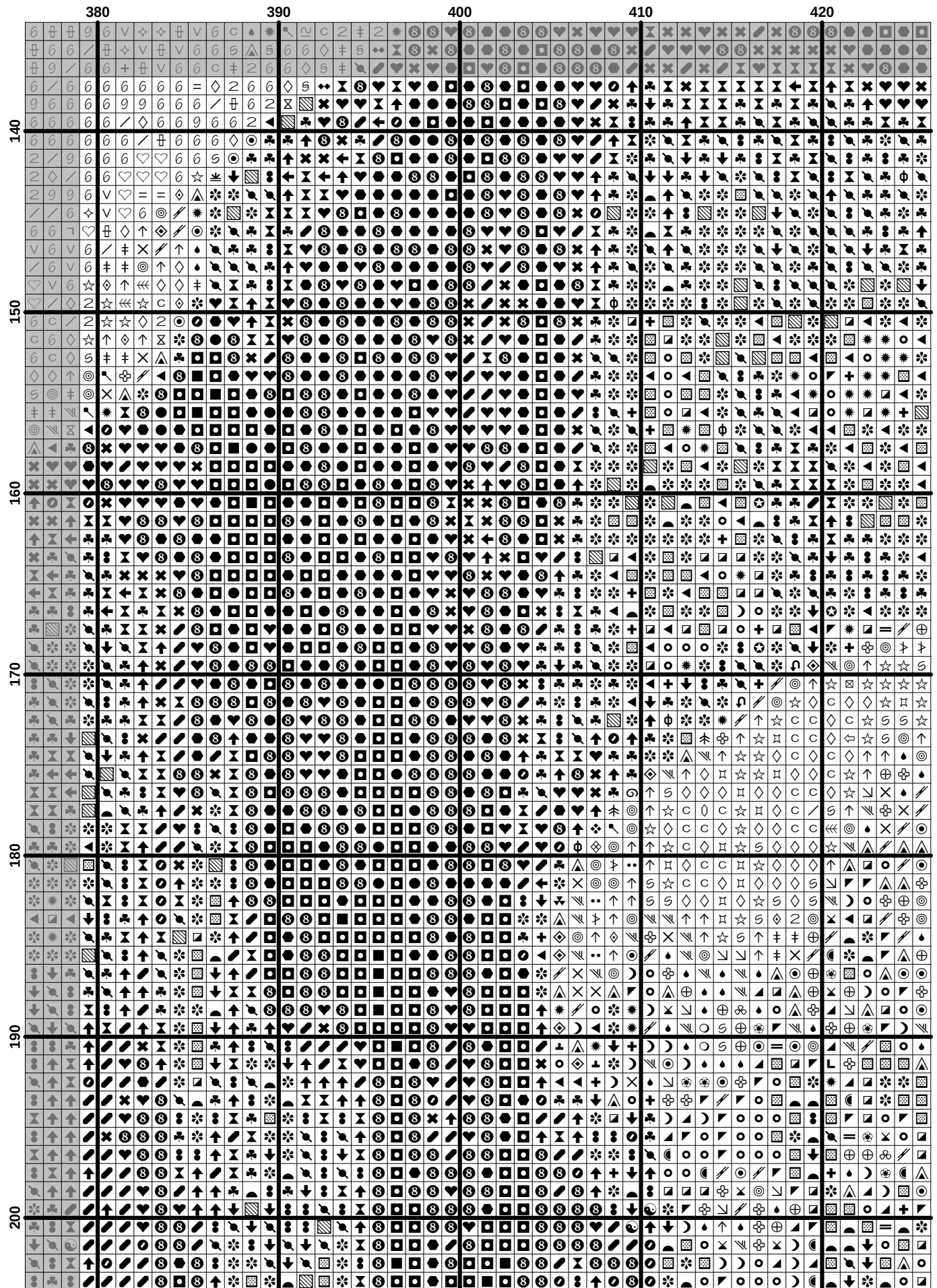
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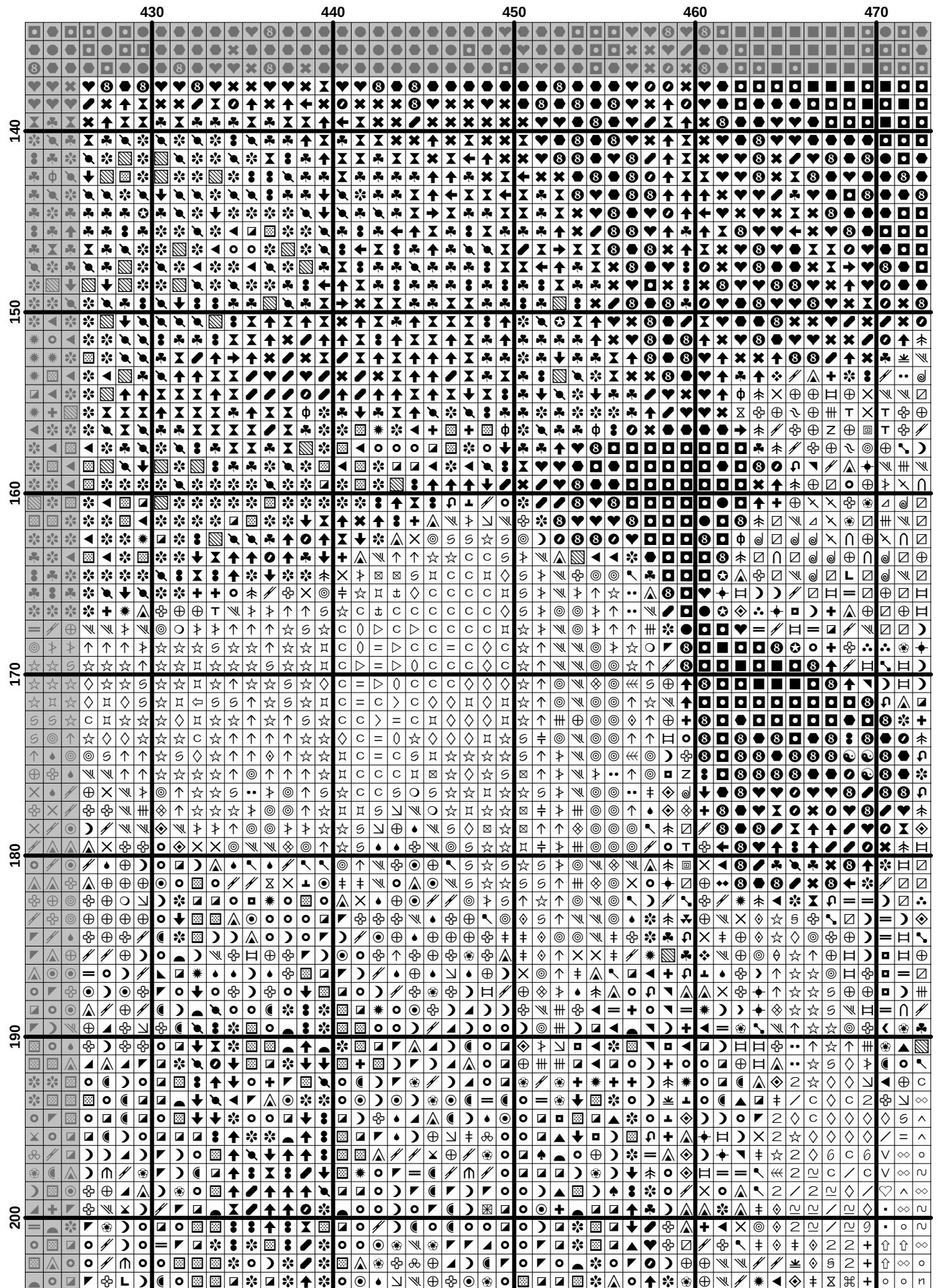
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$$(42) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

[illegible]

	330	340	350	360	370
140	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	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	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	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	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





	470	480	490	500	510	520
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	520	530	540	550	560
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142	⬆	⬆	⬆	⬆	⬆
143	⬆	⬆	⬆	⬆	⬆
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147	⬆	⬆	⬆	⬆	⬆
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230					
240					

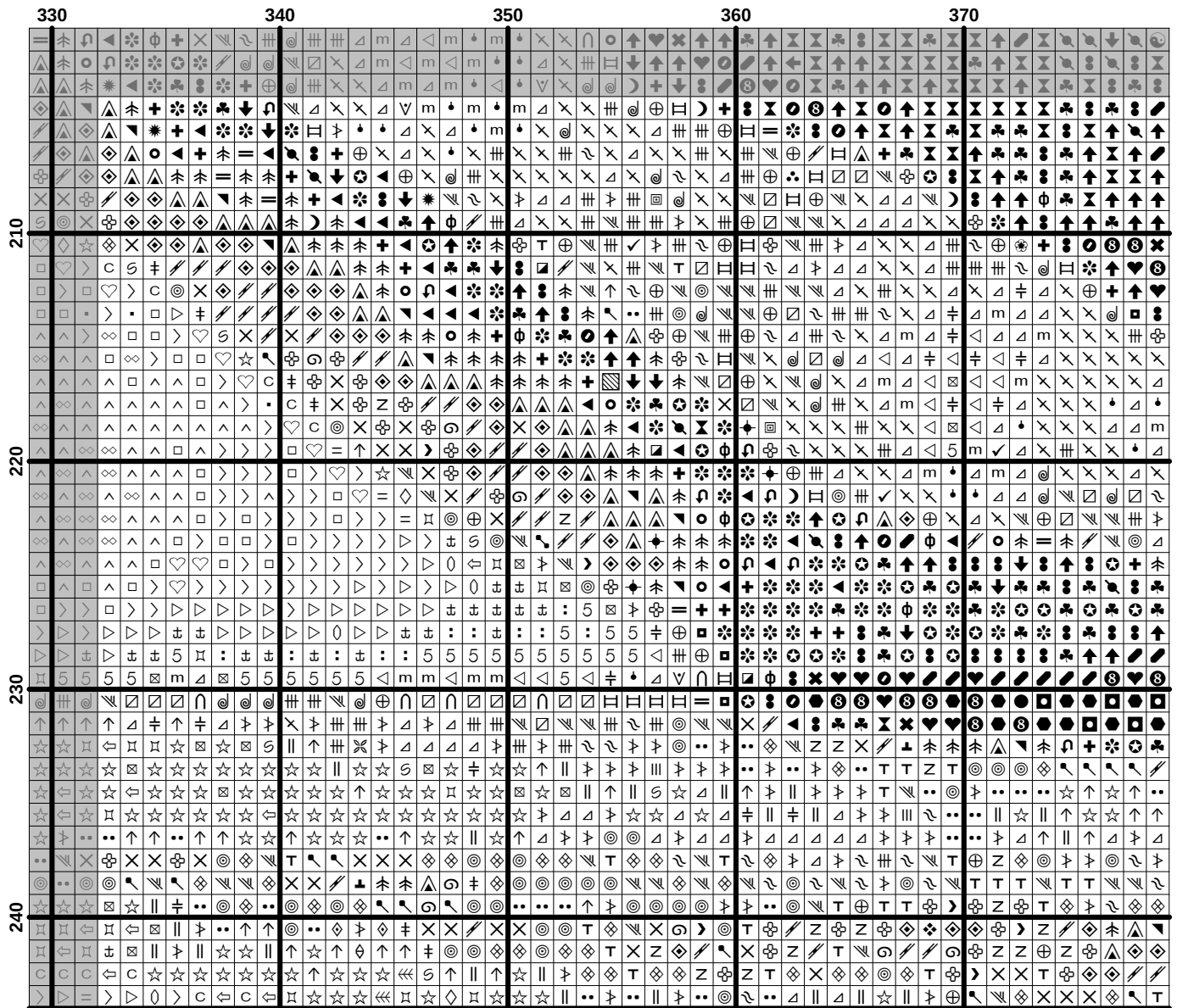
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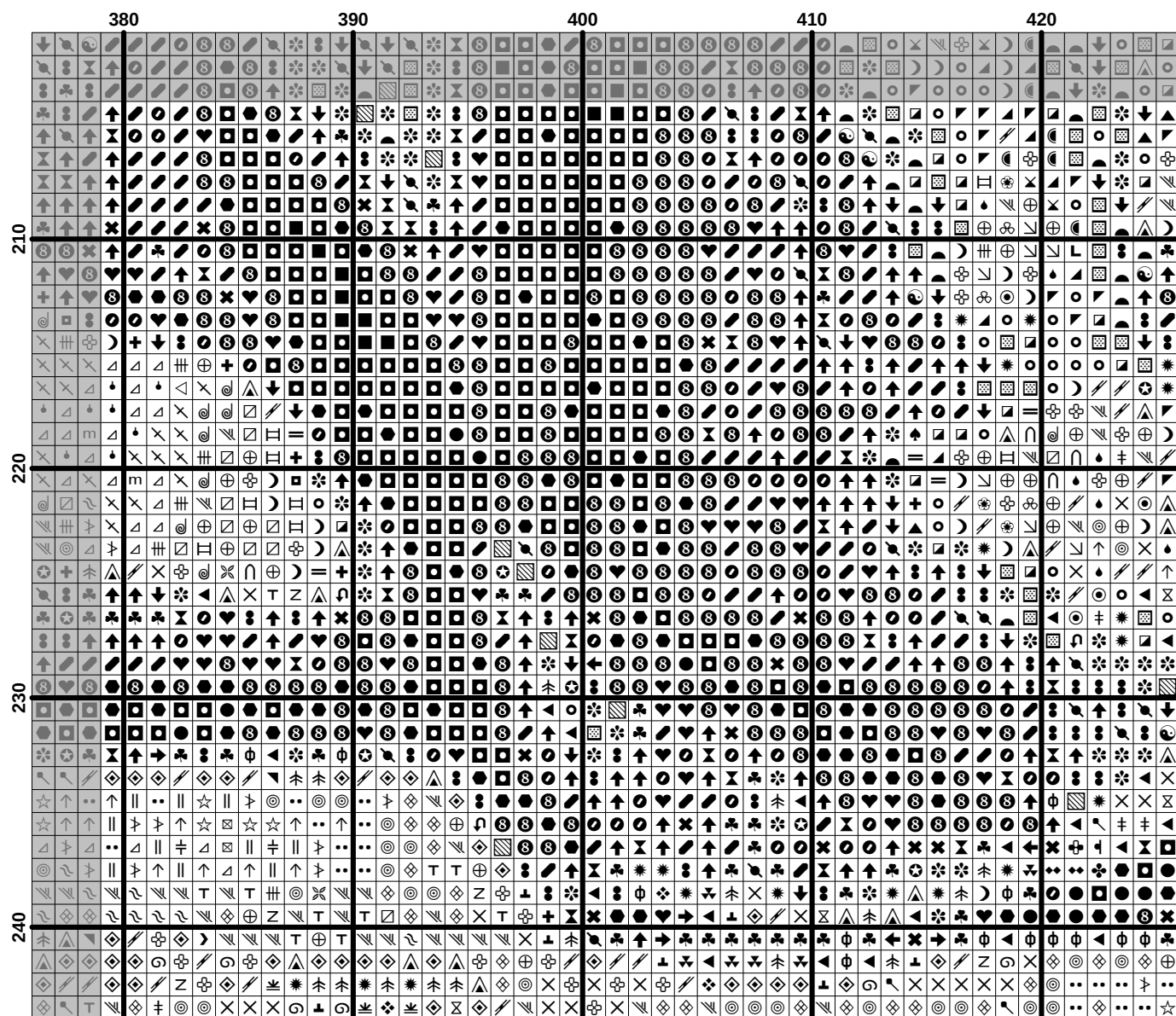
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