

1090 Barges on the Canal in Bruges



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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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Barges on the Canal in Bruges

Stitch Count	
Horizontal:	500
Vertical:	347

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:	91	35.67	63	24.75	80	31.21	55	21.65	71	27.75	49	19.25
Including Margins:	107	42	79	31	96	38	71	28	87	34	65	26
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	127	49.93	88	34.65	106	41.61	73	28.87	53	20.8	36	14.43
Including Margins:	143	56	104	41	122	48	89	35	69	27	52	21
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	50	19.97	35	13.86	49	19.2	33	13.32	47	18.49	32	12.83
Including Margins:	66	26	51	20	65	26	49	20	63	25	48	19
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	45	17.83	31	12.37	42	16.64	29	11.55	39	15.6	27	10.82
Including Margins:	61	24	47	19	58	23	45	18	55	22	43	17

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
	317	Pewter Gray
	320	Pistachio Green-MD
	371	Mustard
	407	Desert Sand-DK
	413	Pewter Gray-DK
	414	Steel Gray-DK
	415	Pearl Gray
	435	Brown-VY LT
	436	Tan
	451	Shell Gray-DK
	452	Shell Gray-MD
	501	Blue Green-DK
	502	Blue Green
	503	Blue Green-MD
	519	Sky Blue
	522	Fern Green
	523	Fern Green-LT
	524	Fern Green-VY LT
	535	Ash Gray-VY LT
	543	Beige Brown-UL VY LT
	563	Jade-LT
	564	Jade-VY LT
	598	Turquoise-LT
	611	Drab Brown
	613	Drab Brown-VY LT
	632	Desert Sand-UL VY DK
	645	Beaver Gray-VY DK
	646	Beaver Gray-DK
	647	Beaver Gray-MD
	648	Beaver Gray-LT
	677	Old Gold-VY LT
	712	Cream
	732	Olive Green
	738	Tan-VY LT
	746	Off White
	747	Sky Blue-VY LT
	762	Pearl Gray-VY LT
	772	Yellow Green-VY LT
	780	Topaz-UL VY DK
	799	Delft Blue-MD
	800	Delft Blue-Pale
	809	Delft Blue
	828	Blue-UL VY LT

	838	Beige Brown-VY DK
	844	Beaver Brown-UL DK
	869	Hazelnut Brown-VY DK
	926	Gray Green-MD
	927	Gray Green-LT
	928	Gray Green-VY LT
	932	Antique Blue-LT
	935	Avocado Green-DK
	937	Avocado Green-MD
	938	Coffee Brown-UL DK
	948	Peach-VY LT
	955	Nile Green-LT
	958	Sea Green-DK
	964	Sea Green-LT
	966	Baby Green-MD
	3011	Khaki Green-DK
	3013	Khaki Green-LT
	3021	Brown Gray-VY DK
	3032	Mocha Brown-MD
	3045	Yellow Beige-DK
	3046	Yellow Beige-MD
	3064	Desert Sand
	3078	Golden Yellow-VY LT
	3348	Yellow Green-LT
	3364	Pine Green
	3371	Black Brown
	3755	Baby Blue
	3756	Baby Blue-UL VY LT
	3761	Sky Blue-LT
	3766	Peacock Blue-LT
	3768	Gray Green-DK
	3770	Tawny-VY LT
	3772	Desert Sand-VY DK
	3778	Terra Cotta-LT
	3781	Mocha Brown-DK
	3782	Mocha Brown-LT
	3787	Brown Gray-DK
	3790	Beige Gray-UL DK
	3799	Pewter Gray-VY DK
	3816	Celadon Green-MD
	3840	Lavender Blue-LT
	3849	Teal Green-LT
	3861	Cocoa-LT
	3865	Winter White
	3866	Mocha Brown-UL VY LT
	Ecru	Ecru

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

Symbol	DMC1	Name1	DMC2	Name2
◆	3799	Pewter Gray-VY DK	844	Beaver Brown-UL DK
⌘	645	Beaver Gray-VY DK	646	Beaver Gray-DK
=	3346	Hunter Green	3790	Beige Gray-UL DK
Φ	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
L	371	Mustard	3772	Desert Sand-VY DK
●	838	Beige Brown-VY DK	3781	Mocha Brown-DK
×	3348	Yellow Green-LT	3053	Green Gray
⦿	3052	Green Gray-MD	3364	Pine Green
➔	838	Beige Brown-VY DK	869	Hazelnut Brown-VY DK
=	613	Drab Brown-VY LT	677	Old Gold-VY LT
■	938	Coffee Brown-UL DK	3371	Black Brown
●	3371	Black Brown	3799	Pewter Gray-VY DK
↑	3768	Gray Green-DK	3799	Pewter Gray-VY DK
∴	3772	Desert Sand-VY DK	3778	Terra Cotta-LT
◀	414	Steel Gray-DK	932	Antique Blue-LT
†	3781	Mocha Brown-DK	3787	Brown Gray-DK
∴	415	Pearl Gray	932	Antique Blue-LT
⚡	318	Steel Gray-LT	3810	Turquoise-DK
➤	435	Brown-VY LT	436	Tan
◇	3768	Gray Green-DK	317	Pewter Gray
▲	414	Steel Gray-DK	926	Gray Green-MD
▸	502	Blue Green	645	Beaver Gray-VY DK
↗	844	Beaver Brown-UL DK	501	Blue Green-DK
✱	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
⦿	3781	Mocha Brown-DK	844	Beaver Brown-UL DK
?	632	Desert Sand-UL VY DK	838	Beige Brown-VY DK
◊	369	Pistachio Green-VY LT	613	Drab Brown-VY LT
×	996	Electric Blue-MD	799	Delft Blue-MD
⊕	809	Delft Blue	996	Electric Blue-MD
⦿	798	Delft Blue-DK	996	Electric Blue-MD
⦿	3840	Lavender Blue-LT	996	Electric Blue-MD
H	996	Electric Blue-MD	3761	Sky Blue-LT
)	747	Sky Blue-VY LT	3761	Sky Blue-LT
«	3865	Winter White	747	Sky Blue-VY LT
\$	799	Delft Blue-MD	809	Delft Blue
⊗	996	Electric Blue-MD	747	Sky Blue-VY LT
↔	996	Electric Blue-MD	3865	Winter White
◦	3761	Sky Blue-LT	3865	Winter White
•	928	Gray Green-VY LT	415	Pearl Gray
7	415	Pearl Gray	3325	Baby Blue-LT
8	415	Pearl Gray	955	Nile Green-LT
⌘	503	Blue Green-MD	523	Fern Green-LT
+	501	Blue Green-DK	3346	Hunter Green
♠	502	Blue Green	3768	Gray Green-DK
♠	502	Blue Green	535	Ash Gray-VY LT
⊕	502	Blue Green	3021	Brown Gray-VY DK
⌘	645	Beaver Gray-VY DK	320	Pistachio Green-MD
▲	317	Pewter Gray	3816	Celadon Green-MD
⌘	503	Blue Green-MD	3816	Celadon Green-MD
♦	317	Pewter Gray	646	Beaver Gray-DK
6	224	Shell Pink-VY LT	677	Old Gold-VY LT
*	926	Gray Green-MD	927	Gray Green-LT
●	3772	Desert Sand-VY DK	3787	Brown Gray-DK

☼	632	Desert Sand-UL VY DK	371	Mustard
▲	780	Topaz-UL VY DK	435	Brown-VY LT
☼	632	Desert Sand-UL VY DK	3011	Khaki Green-DK
III	3854	Autumn Gold-MD	436	Tan
☼	3781	Mocha Brown-DK	3346	Hunter Green
☼	3346	Hunter Green	3364	Pine Green
☼	3854	Autumn Gold-MD	3046	Yellow Beige-MD
☼	632	Desert Sand-UL VY DK	844	Beaver Brown-UL DK
✱	632	Desert Sand-UL VY DK	646	Beaver Gray-DK
☼	3772	Desert Sand-VY DK	3032	Mocha Brown-MD
○	3768	Gray Green-DK	414	Steel Gray-DK
☼	413	Pewter Gray-DK	3768	Gray Green-DK
H	317	Pewter Gray	927	Gray Green-LT
☼	964	Sea Green-LT	955	Nile Green-LT
9	543	Beige Brown-UL VY LT	648	Beaver Gray-LT
+	772	Yellow Green-VY LT	648	Beaver Gray-LT
☼	645	Beaver Gray-VY DK	3364	Pine Green
II	407	Desert Sand-DK	738	Tan-VY LT
↓	523	Fern Green-LT	3861	Cocoa-LT
2	3782	Mocha Brown-LT	224	Shell Pink-VY LT
☼	613	Drab Brown-VY LT	224	Shell Pink-VY LT
○	926	Gray Green-MD	647	Beaver Gray-MD
☼	927	Gray Green-LT	3861	Cocoa-LT
☼	3032	Mocha Brown-MD	646	Beaver Gray-DK
☼	413	Pewter Gray-DK	502	Blue Green
☼	838	Beige Brown-VY DK	938	Coffee Brown-UL DK
✱	869	Hazelnut Brown-VY DK	938	Coffee Brown-UL DK
○	677	Old Gold-VY LT	3046	Yellow Beige-MD
☼	3768	Gray Green-DK	943	Bright Green-MD
★	414	Steel Gray-DK	943	Bright Green-MD
☼	632	Desert Sand-UL VY DK	3021	Brown Gray-VY DK
☼	611	Drab Brown	3364	Pine Green
☼	937	Avocado Green-MD	3021	Brown Gray-VY DK
○	927	Gray Green-LT	598	Turquoise-LT
n	3865	Winter White	3866	Mocha Brown-UL VY LT
⇒	3782	Mocha Brown-LT	738	Tan-VY LT
✓	564	Jade-VY LT	927	Gray Green-LT
☼	3799	Pewter Gray-VY DK	501	Blue Green-DK
☼	645	Beaver Gray-VY DK	3790	Beige Gray-UL DK
☼	747	Sky Blue-VY LT	798	Delft Blue-DK
☼	799	Delft Blue-MD	747	Sky Blue-VY LT
☼	598	Turquoise-LT	3849	Teal Green-LT
☼	503	Blue Green-MD	913	Nile Green-MD
☼	3778	Terra Cotta-LT	436	Tan

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	95	37	91	35	82	32
317	Pewter Gray	495	194	471	185	424	166
318	Steel Gray-LT	96	37	91	35	82	32
320	Pistachio Green-MD	127	50	121	47	109	42
369	Pistachio Green-VY LT	83	32	79	31	71	27
371	Mustard	64	25	61	24	55	21
407	Desert Sand-DK	55	21	52	20	47	18
413	Pewter Gray-DK	369	145	351	138	316	124
414	Steel Gray-DK	384	151	366	144	329	129
415	Pearl Gray	603	237	574	225	517	203
435	Brown-VY LT	74	29	70	27	63	24
436	Tan	45	17	43	16	39	15
451	Shell Gray-DK	133	52	126	49	114	44
452	Shell Gray-MD	82	32	78	30	70	27
501	Blue Green-DK	371	146	353	138	318	125
502	Blue Green	536	211	510	200	459	180
503	Blue Green-MD	224	88	214	84	192	75
519	Sky Blue	40	15	38	14	35	13
522	Fern Green	203	79	193	75	174	68
523	Fern Green-LT	494	194	470	185	423	166
524	Fern Green-VY LT	409	161	390	153	351	138
535	Ash Gray-VY LT	877	345	835	328	752	296
543	Beige Brown-UL VY LT	190	74	181	71	163	64
563	Jade-LT	47	18	45	17	40	15
564	Jade-VY LT	167	65	159	62	143	56
598	Turquoise-LT	359	141	342	134	308	121
611	Drab Brown	134	52	128	50	115	45
613	Drab Brown-VY LT	322	126	307	120	276	108
632	Desert Sand-UL VY DK	241	94	229	90	206	81
645	Beaver Gray-VY DK	1732	681	1649	649	1484	584
646	Beaver Gray-DK	1189	468	1133	446	1019	401
647	Beaver Gray-MD	400	157	381	150	343	135
648	Beaver Gray-LT	354	139	337	132	303	119
677	Old Gold-VY LT	92	36	88	34	79	31
712	Cream	81	31	77	30	70	27
732	Olive Green	9	3	9	3	8	3
738	Tan-VY LT	110	43	105	41	94	37
746	Off White	234	92	223	87	201	79
747	Sky Blue-VY LT	7015	2761	6681	2630	6013	2367
762	Pearl Gray-VY LT	132	51	126	49	113	44
772	Yellow Green-VY LT	258	101	246	96	221	87
780	Topaz-UL VY DK	23	9	21	8	19	7
798	Delft Blue-DK	37	14	36	14	32	12
799	Delft Blue-MD	288	113	274	107	247	97
800	Delft Blue-Pale	64	25	61	24	55	21
809	Delft Blue	862	339	821	323	739	290
828	Blue-UL VY LT	332	130	316	124	285	112
838	Beige Brown-VY DK	505	198	481	189	433	170
844	Beaver Brown-UL DK	1492	587	1421	559	1278	503
869	Hazelnut Brown-VY DK	55	21	52	20	47	18
913	Nile Green-MD	17	6	16	6	14	5
926	Gray Green-MD	550	216	524	206	471	185
927	Gray Green-LT	954	375	909	357	818	322
928	Gray Green-VY LT	206	81	196	77	177	69

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932	Antique Blue-LT	515	202	491	193	442	174
935	Avocado Green-DK	187	73	179	70	161	63
937	Avocado Green-MD	94	37	89	35	80	31
938	Coffee Brown-UL DK	712	280	678	266	610	240
943	Bright Green-MD	40	15	38	14	34	13
948	Peach-VY LT	31	12	29	11	26	10
955	Nile Green-LT	728	286	693	272	624	245
958	Sea Green-DK	2	1	2	1	1	1
964	Sea Green-LT	199	78	189	74	170	66
966	Baby Green-MD	191	75	182	71	164	64
996	Electric Blue-MD	6067	2388	5778	2274	5200	2047
3011	Khaki Green-DK	68	26	65	25	58	22
3013	Khaki Green-LT	78	30	74	29	67	26
3021	Brown Gray-VY DK	1023	402	974	383	877	345
3032	Mocha Brown-MD	409	161	389	153	350	137
3045	Yellow Beige-DK	22	8	21	8	19	7
3046	Yellow Beige-MD	46	18	44	17	39	15
3052	Green Gray-MD	28	11	27	10	24	9
3053	Green Gray	37	14	35	13	32	12
3064	Desert Sand	12	4	11	4	10	3
3078	Golden Yellow-VY LT	15	5	14	5	13	5
3325	Baby Blue-LT	56	22	53	20	48	18
3346	Hunter Green	202	79	192	75	173	68
3348	Yellow Green-LT	106	41	101	39	91	35
3364	Pine Green	352	138	335	131	302	118
3371	Black Brown	1213	477	1155	454	1039	409
3755	Baby Blue	44	17	41	16	37	14
3756	Baby Blue-UL VY LT	47	18	45	17	41	16
3761	Sky Blue-LT	1762	693	1678	660	1510	594
3766	Peacock Blue-LT	48	18	46	18	41	16
3768	Gray Green-DK	323	127	308	121	277	109
3770	Tawny-VY LT	17	6	16	6	14	5
3772	Desert Sand-VY DK	105	41	100	39	90	35
3778	Terra Cotta-LT	14	5	14	5	12	4
3781	Mocha Brown-DK	632	248	602	237	542	213
3782	Mocha Brown-LT	249	98	237	93	213	83
3787	Brown Gray-DK	759	298	723	284	650	255
3790	Beige Gray-UL DK	301	118	287	112	258	101
3799	Pewter Gray-VY DK	1723	678	1641	646	1477	581
3810	Turquoise-DK	96	37	91	35	82	32
3816	Celadon Green-MD	128	50	122	48	109	42
3840	Lavender Blue-LT	1160	456	1105	435	994	391
3849	Teal Green-LT	33	12	31	12	28	11
3854	Autumn Gold-MD	10	3	9	3	8	3
3861	Cocoa-LT	306	120	292	114	262	103
3865	Winter White	4031	1587	3839	1511	3455	1360
3866	Mocha Brown-UL VY LT	280	110	267	105	240	94
Ecru	Ecru	103	40	98	38	88	34

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	148	58	123	48	62	24
317	Pewter Gray	763	299	636	249	318	125
318	Steel Gray-LT	148	58	123	48	62	24
320	Pistachio Green-MD	196	76	164	63	82	32
369	Pistachio Green-VY LT	128	49	107	41	53	20
371	Mustard	99	38	83	32	41	16
407	Desert Sand-DK	85	32	71	27	35	14
413	Pewter Gray-DK	569	223	474	186	237	93
414	Steel Gray-DK	592	232	494	194	247	97
415	Pearl Gray	931	365	776	305	388	152
435	Brown-VY LT	113	43	95	36	47	18
436	Tan	70	27	59	23	29	11
451	Shell Gray-DK	205	79	171	66	86	33
452	Shell Gray-MD	126	49	105	41	53	20
501	Blue Green-DK	572	225	477	188	239	94
502	Blue Green	826	324	689	270	344	135
503	Blue Green-MD	346	135	288	113	144	56
519	Sky Blue	63	23	53	20	26	10
522	Fern Green	313	122	261	102	131	51
523	Fern Green-LT	761	299	635	249	317	125
524	Fern Green-VY LT	632	248	527	207	263	104
535	Ash Gray-VY LT	1354	533	1128	444	564	222
543	Beige Brown-UL VY LT	293	115	245	96	122	48
563	Jade-LT	72	27	60	23	30	11
564	Jade-VY LT	257	101	215	84	107	42
598	Turquoise-LT	554	218	462	182	231	91
611	Drab Brown	207	81	173	68	86	34
613	Drab Brown-VY LT	497	194	414	162	207	81
632	Desert Sand-UL VY DK	371	146	309	122	155	61
645	Beaver Gray-VY DK	2671	1051	2226	876	1113	438
646	Beaver Gray-DK	1834	722	1529	602	764	301
647	Beaver Gray-MD	617	243	515	203	257	101
648	Beaver Gray-LT	545	214	455	179	227	89
677	Old Gold-VY LT	142	56	119	47	59	23
712	Cream	126	49	105	41	53	20
732	Olive Green	14	5	12	5	6	2
738	Tan-VY LT	169	67	141	56	71	28
746	Off White	362	142	302	119	151	59
747	Sky Blue-VY LT	10823	4261	9020	3551	4510	1775
762	Pearl Gray-VY LT	203	79	170	66	85	33
772	Yellow Green-VY LT	398	157	332	131	166	65
780	Topaz-UL VY DK	34	13	29	11	14	5
798	Delft Blue-DK	58	22	48	18	24	9
799	Delft Blue-MD	445	175	371	146	185	73
800	Delft Blue-Pale	99	38	83	32	41	16
809	Delft Blue	1330	522	1109	435	554	218
828	Blue-UL VY LT	513	202	428	168	214	84
838	Beige Brown-VY DK	779	306	650	255	325	128
844	Beaver Brown-UL DK	2300	905	1917	755	959	377
869	Hazelnut Brown-VY DK	85	32	71	27	35	14
913	Nile Green-MD	25	9	21	8	11	4
926	Gray Green-MD	848	333	707	278	353	139
927	Gray Green-LT	1472	580	1227	483	614	242

928	Gray Green-VY LT	319	124	266	104	133	52
932	Antique Blue-LT	796	313	663	261	332	131
935	Avocado Green-DK	290	113	242	95	121	47
937	Avocado Green-MD	144	56	120	47	60	23
938	Coffee Brown-UL DK	1098	432	915	360	458	180
943	Bright Green-MD	61	23	51	20	26	10
948	Peach-VY LT	47	18	39	15	20	8
955	Nile Green-LT	1123	441	936	368	468	184
958	Sea Green-DK	2	2	2	2	1	1
964	Sea Green-LT	306	119	255	99	128	50
966	Baby Green-MD	295	115	246	96	123	48
996	Electric Blue-MD	9360	3685	7800	3071	3900	1535
3011	Khaki Green-DK	104	40	87	33	44	17
3013	Khaki Green-LT	121	47	101	39	50	20
3021	Brown Gray-VY DK	1579	621	1316	518	658	259
3032	Mocha Brown-MD	630	247	525	206	263	103
3045	Yellow Beige-DK	34	13	29	11	14	5
3046	Yellow Beige-MD	70	27	59	23	29	11
3052	Green Gray-MD	43	16	36	14	18	7
3053	Green Gray	58	22	48	18	24	9
3064	Desert Sand	18	5	15	5	8	2
3078	Golden Yellow-VY LT	23	9	20	8	10	4
3325	Baby Blue-LT	86	32	72	27	36	14
3346	Hunter Green	311	122	260	102	130	51
3348	Yellow Green-LT	164	63	137	53	68	26
3364	Pine Green	544	212	453	177	227	89
3371	Black Brown	1870	736	1559	614	779	307
3755	Baby Blue	67	25	56	21	28	11
3756	Baby Blue-UL VY LT	74	29	62	24	31	12
3761	Sky Blue-LT	2718	1069	2265	891	1133	446
3766	Peacock Blue-LT	74	29	62	24	31	12
3768	Gray Green-DK	499	196	416	164	208	82
3770	Tawny-VY LT	25	9	21	8	11	4
3772	Desert Sand-VY DK	162	63	135	53	68	26
3778	Terra Cotta-LT	22	7	18	6	9	3
3781	Mocha Brown-DK	976	383	813	320	407	160
3782	Mocha Brown-LT	383	149	320	125	160	62
3787	Brown Gray-DK	1170	459	975	383	488	191
3790	Beige Gray-UL DK	464	182	387	152	194	76
3799	Pewter Gray-VY DK	2659	1046	2216	872	1108	436
3810	Turquoise-DK	148	58	123	48	62	24
3816	Celadon Green-MD	196	76	164	63	82	32
3840	Lavender Blue-LT	1789	704	1491	587	746	293
3849	Teal Green-LT	50	20	42	17	21	8
3854	Autumn Gold-MD	14	5	12	5	6	2
3861	Cocoa-LT	472	185	393	155	197	77
3865	Winter White	6219	2448	5183	2040	2591	1020
3866	Mocha Brown-UL VY LT	432	169	360	141	180	71
Ecru	Ecru	158	61	132	51	66	26

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	59	23	57	22	55	21
317	Pewter Gray	305	120	294	115	283	111
318	Steel Gray-LT	59	23	57	22	55	21
320	Pistachio Green-MD	78	30	75	29	73	28
369	Pistachio Green-VY LT	51	19	49	19	47	18
371	Mustard	40	15	38	15	37	14
407	Desert Sand-DK	34	13	33	12	31	12
413	Pewter Gray-DK	228	89	219	86	211	83
414	Steel Gray-DK	237	93	228	89	219	86
415	Pearl Gray	372	146	358	141	345	135
435	Brown-VY LT	45	17	44	17	42	16
436	Tan	28	11	27	10	26	10
451	Shell Gray-DK	82	32	79	30	76	29
452	Shell Gray-MD	50	19	48	19	47	18
501	Blue Green-DK	229	90	220	87	212	83
502	Blue Green	330	130	318	125	306	120
503	Blue Green-MD	138	54	133	52	128	50
519	Sky Blue	25	9	24	9	23	9
522	Fern Green	125	49	120	47	116	45
523	Fern Green-LT	305	120	293	115	282	111
524	Fern Green-VY LT	253	99	243	96	234	92
535	Ash Gray-VY LT	541	213	521	205	501	197
543	Beige Brown-UL VY LT	117	46	113	44	109	43
563	Jade-LT	29	11	28	10	27	10
564	Jade-VY LT	103	40	99	39	95	37
598	Turquoise-LT	222	87	213	84	205	81
611	Drab Brown	83	32	80	31	77	30
613	Drab Brown-VY LT	199	78	191	75	184	72
632	Desert Sand-UL VY DK	148	58	143	56	137	54
645	Beaver Gray-VY DK	1068	420	1027	404	989	389
646	Beaver Gray-DK	734	289	705	278	679	267
647	Beaver Gray-MD	247	97	237	93	229	90
648	Beaver Gray-LT	218	86	210	82	202	79
677	Old Gold-VY LT	57	22	55	21	53	21
712	Cream	50	19	48	19	47	18
732	Olive Green	6	2	6	2	5	2
738	Tan-VY LT	68	27	65	26	63	25
746	Off White	145	57	139	55	134	53
747	Sky Blue-VY LT	4329	1704	4163	1639	4009	1578
762	Pearl Gray-VY LT	81	32	78	30	75	29
772	Yellow Green-VY LT	159	63	153	60	147	58
780	Topaz-UL VY DK	14	5	13	5	13	5
798	Delft Blue-DK	23	9	22	8	21	8
799	Delft Blue-MD	178	70	171	67	165	65
800	Delft Blue-Pale	40	15	38	15	37	14
809	Delft Blue	532	209	512	201	493	193
828	Blue-UL VY LT	205	81	197	78	190	75
838	Beige Brown-VY DK	312	122	300	118	289	113
844	Beaver Brown-UL DK	920	362	885	348	852	335
869	Hazelnut Brown-VY DK	34	13	33	12	31	12
913	Nile Green-MD	10	4	10	3	9	3
926	Gray Green-MD	339	133	326	128	314	123
927	Gray Green-LT	589	232	566	223	545	215

928	Gray Green-VY LT	127	50	123	48	118	46
932	Antique Blue-LT	318	125	306	120	295	116
935	Avocado Green-DK	116	45	111	44	107	42
937	Avocado Green-MD	58	22	55	21	53	21
938	Coffee Brown-UL DK	439	173	422	166	407	160
943	Bright Green-MD	24	9	24	9	23	9
948	Peach-VY LT	19	7	18	7	17	7
955	Nile Green-LT	449	176	432	170	416	163
958	Sea Green-DK	1	1	1	1	1	1
964	Sea Green-LT	122	48	118	46	113	44
966	Baby Green-MD	118	46	114	44	109	43
996	Electric Blue-MD	3744	1474	3600	1417	3467	1365
3011	Khaki Green-DK	42	16	40	15	39	15
3013	Khaki Green-LT	48	19	46	18	45	17
3021	Brown Gray-VY DK	631	248	607	239	585	230
3032	Mocha Brown-MD	252	99	242	95	233	91
3045	Yellow Beige-DK	14	5	13	5	13	5
3046	Yellow Beige-MD	28	11	27	10	26	10
3052	Green Gray-MD	17	6	17	6	16	6
3053	Green Gray	23	9	22	8	21	8
3064	Desert Sand	7	2	7	2	7	2
3078	Golden Yellow-VY LT	9	4	9	3	9	3
3325	Baby Blue-LT	35	13	33	12	32	12
3346	Hunter Green	125	49	120	47	115	45
3348	Yellow Green-LT	66	25	63	24	61	23
3364	Pine Green	217	85	209	82	201	79
3371	Black Brown	748	294	719	283	693	273
3755	Baby Blue	27	10	26	10	25	9
3756	Baby Blue-UL VY LT	30	12	28	11	27	11
3761	Sky Blue-LT	1087	428	1045	411	1007	396
3766	Peacock Blue-LT	30	12	28	11	27	11
3768	Gray Green-DK	199	78	192	75	185	73
3770	Tawny-VY LT	10	4	10	3	9	3
3772	Desert Sand-VY DK	65	25	62	24	60	23
3778	Terra Cotta-LT	9	3	8	3	8	3
3781	Mocha Brown-DK	390	153	375	147	361	142
3782	Mocha Brown-LT	153	60	147	57	142	55
3787	Brown Gray-DK	468	184	450	177	433	170
3790	Beige Gray-UL DK	186	73	179	70	172	67
3799	Pewter Gray-VY DK	1063	418	1023	402	985	387
3810	Turquoise-DK	59	23	57	22	55	21
3816	Celadon Green-MD	78	30	75	29	73	28
3840	Lavender Blue-LT	716	282	688	271	663	261
3849	Teal Green-LT	20	8	19	8	19	7
3854	Autumn Gold-MD	6	2	6	2	5	2
3861	Cocoa-LT	189	74	181	71	175	69
3865	Winter White	2488	979	2392	942	2303	907
3866	Mocha Brown-UL VY LT	173	68	166	65	160	63
Ecru	Ecru	63	24	61	24	59	23

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	53	21	49	19	46	18
317	Pewter Gray	273	107	254	100	239	93
318	Steel Gray-LT	53	21	49	19	46	18
320	Pistachio Green-MD	70	27	65	25	61	24
369	Pistachio Green-VY LT	46	17	43	16	40	15
371	Mustard	35	14	33	13	31	12
407	Desert Sand-DK	30	12	28	11	26	10
413	Pewter Gray-DK	203	80	190	74	178	70
414	Steel Gray-DK	212	83	197	77	185	73
415	Pearl Gray	332	131	310	122	291	114
435	Brown-VY LT	41	15	38	14	35	14
436	Tan	25	10	23	9	22	8
451	Shell Gray-DK	73	28	68	26	64	25
452	Shell Gray-MD	45	17	42	16	39	15
501	Blue Green-DK	204	80	191	75	179	70
502	Blue Green	295	116	275	108	258	101
503	Blue Green-MD	123	48	115	45	108	42
519	Sky Blue	23	8	21	8	20	7
522	Fern Green	112	44	104	41	98	38
523	Fern Green-LT	272	107	254	100	238	93
524	Fern Green-VY LT	226	89	211	83	197	78
535	Ash Gray-VY LT	483	190	451	178	423	167
543	Beige Brown-UL VY LT	105	41	98	38	92	36
563	Jade-LT	26	10	24	9	23	8
564	Jade-VY LT	92	36	86	34	80	32
598	Turquoise-LT	198	78	185	73	173	68
611	Drab Brown	74	29	69	27	65	25
613	Drab Brown-VY LT	177	69	166	65	155	61
632	Desert Sand-UL VY DK	132	52	124	49	116	46
645	Beaver Gray-VY DK	954	375	890	350	835	329
646	Beaver Gray-DK	655	258	611	241	573	226
647	Beaver Gray-MD	221	87	206	81	193	76
648	Beaver Gray-LT	195	77	182	71	170	67
677	Old Gold-VY LT	51	20	47	19	44	17
712	Cream	45	17	42	16	39	15
732	Olive Green	5	2	5	2	5	2
738	Tan-VY LT	60	24	56	22	53	21
746	Off White	129	51	121	47	113	44
747	Sky Blue-VY LT	3866	1522	3608	1420	3382	1331
762	Pearl Gray-VY LT	73	28	68	26	64	25
772	Yellow Green-VY LT	142	56	133	52	124	49
780	Topaz-UL VY DK	12	5	11	4	11	4
798	Delft Blue-DK	21	8	19	7	18	7
799	Delft Blue-MD	159	62	148	58	139	55
800	Delft Blue-Pale	35	14	33	13	31	12
809	Delft Blue	475	186	443	174	416	163
828	Blue-UL VY LT	183	72	171	67	160	63
838	Beige Brown-VY DK	278	109	260	102	244	96
844	Beaver Brown-UL DK	822	323	767	302	719	283
869	Hazelnut Brown-VY DK	30	12	28	11	26	10
913	Nile Green-MD	9	3	8	3	8	3
926	Gray Green-MD	303	119	283	111	265	104
927	Gray Green-LT	526	207	491	193	460	181
928	Gray Green-VY LT	114	44	106	41	100	39

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932	Antique Blue-LT	284	112	265	104	249	98
935	Avocado Green-DK	104	41	97	38	91	35
937	Avocado Green-MD	51	20	48	19	45	17
938	Coffee Brown-UL DK	392	154	366	144	343	135
943	Bright Green-MD	22	8	20	8	19	7
948	Peach-VY LT	17	6	16	6	15	6
955	Nile Green-LT	401	158	374	147	351	138
958	Sea Green-DK	1	1	1	1	1	1
964	Sea Green-LT	109	42	102	40	96	37
966	Baby Green-MD	105	41	98	38	92	36
996	Electric Blue-MD	3343	1316	3120	1228	2925	1151
3011	Khaki Green-DK	37	14	35	13	33	12
3013	Khaki Green-LT	43	17	40	16	38	15
3021	Brown Gray-VY DK	564	222	526	207	493	194
3032	Mocha Brown-MD	225	88	210	82	197	77
3045	Yellow Beige-DK	12	5	11	4	11	4
3046	Yellow Beige-MD	25	10	23	9	22	8
3052	Green Gray-MD	15	6	14	5	14	5
3053	Green Gray	21	8	19	7	18	7
3064	Desert Sand	6	2	6	2	6	2
3078	Golden Yellow-VY LT	8	3	8	3	7	3
3325	Baby Blue-LT	31	12	29	11	27	10
3346	Hunter Green	111	44	104	41	97	38
3348	Yellow Green-LT	59	23	55	21	51	20
3364	Pine Green	194	76	181	71	170	66
3371	Black Brown	668	263	623	245	584	230
3755	Baby Blue	24	9	22	8	21	8
3756	Baby Blue-UL VY LT	26	10	25	10	23	9
3761	Sky Blue-LT	971	382	906	356	849	334
3766	Peacock Blue-LT	26	10	25	10	23	9
3768	Gray Green-DK	178	70	166	65	156	61
3770	Tawny-VY LT	9	3	8	3	8	3
3772	Desert Sand-VY DK	58	23	54	21	51	20
3778	Terra Cotta-LT	8	3	7	2	7	2
3781	Mocha Brown-DK	348	137	325	128	305	120
3782	Mocha Brown-LT	137	53	128	50	120	47
3787	Brown Gray-DK	418	164	390	153	366	143
3790	Beige Gray-UL DK	166	65	155	61	145	57
3799	Pewter Gray-VY DK	950	374	886	349	831	327
3810	Turquoise-DK	53	21	49	19	46	18
3816	Celadon Green-MD	70	27	65	25	61	24
3840	Lavender Blue-LT	639	251	596	235	559	220
3849	Teal Green-LT	18	7	17	7	16	6
3854	Autumn Gold-MD	5	2	5	2	5	2
3861	Cocoa-LT	168	66	157	62	147	58
3865	Winter White	2221	874	2073	816	1943	765
3866	Mocha Brown-UL VY LT	154	60	144	56	135	53
Ecru	Ecru	57	22	53	20	50	19

(13)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(20)

$$(20) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (21)$$

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

(22)

[illegible]

$$(24) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

$$(25) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

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

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

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

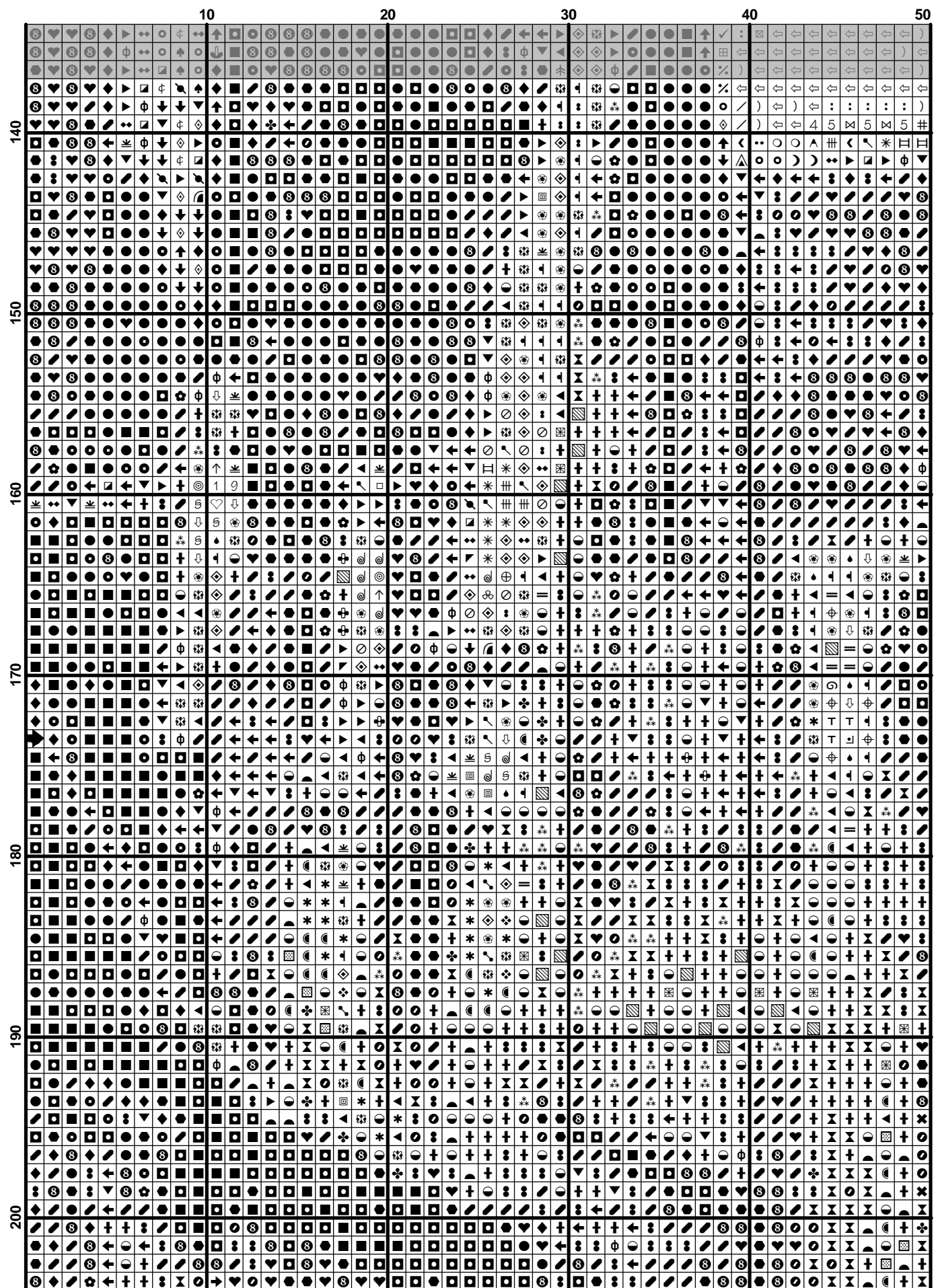
$$(29) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (30)$$

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

$$(31) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

$$(32) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

(33)



[illegible]

[illegible]

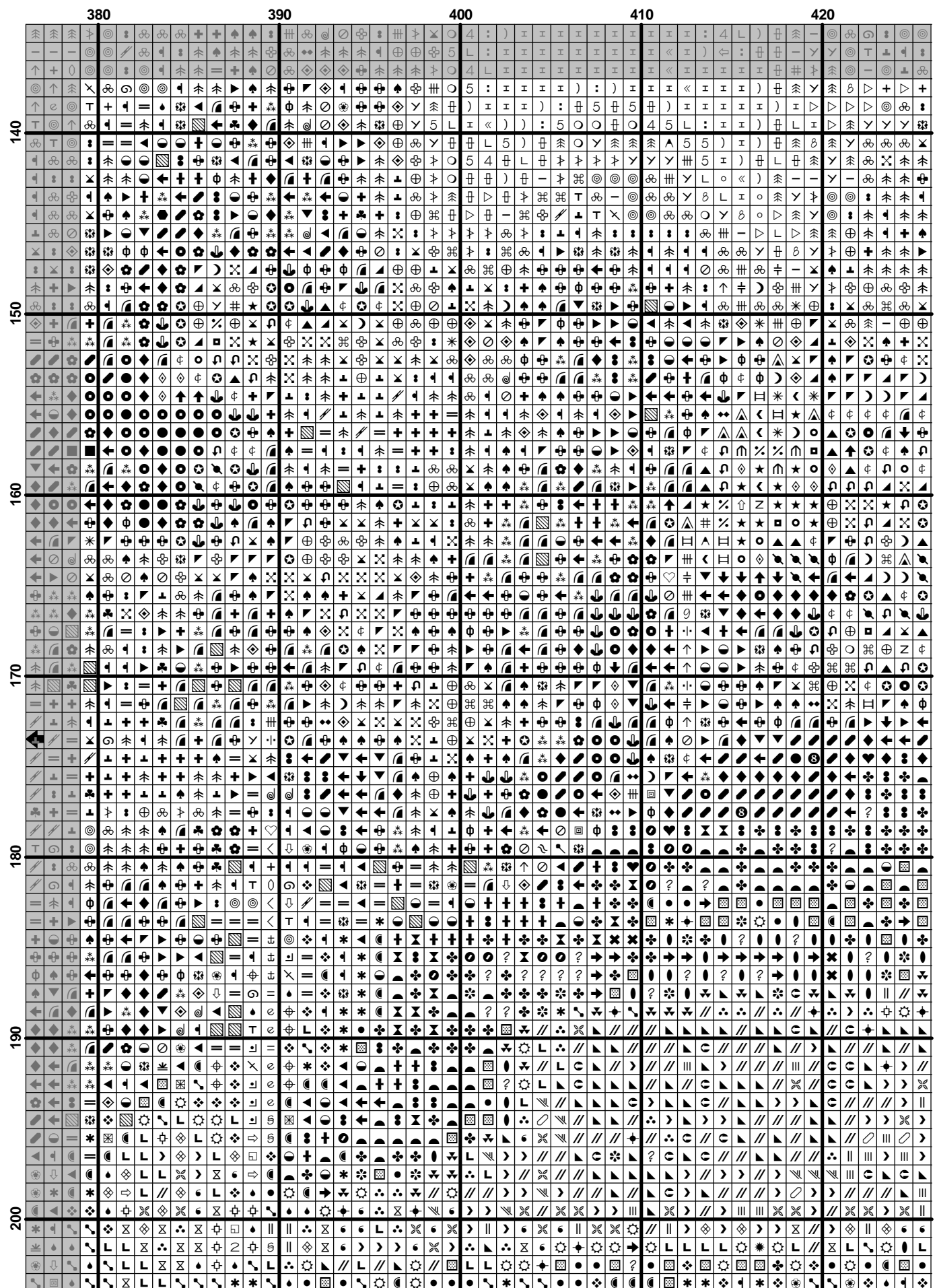
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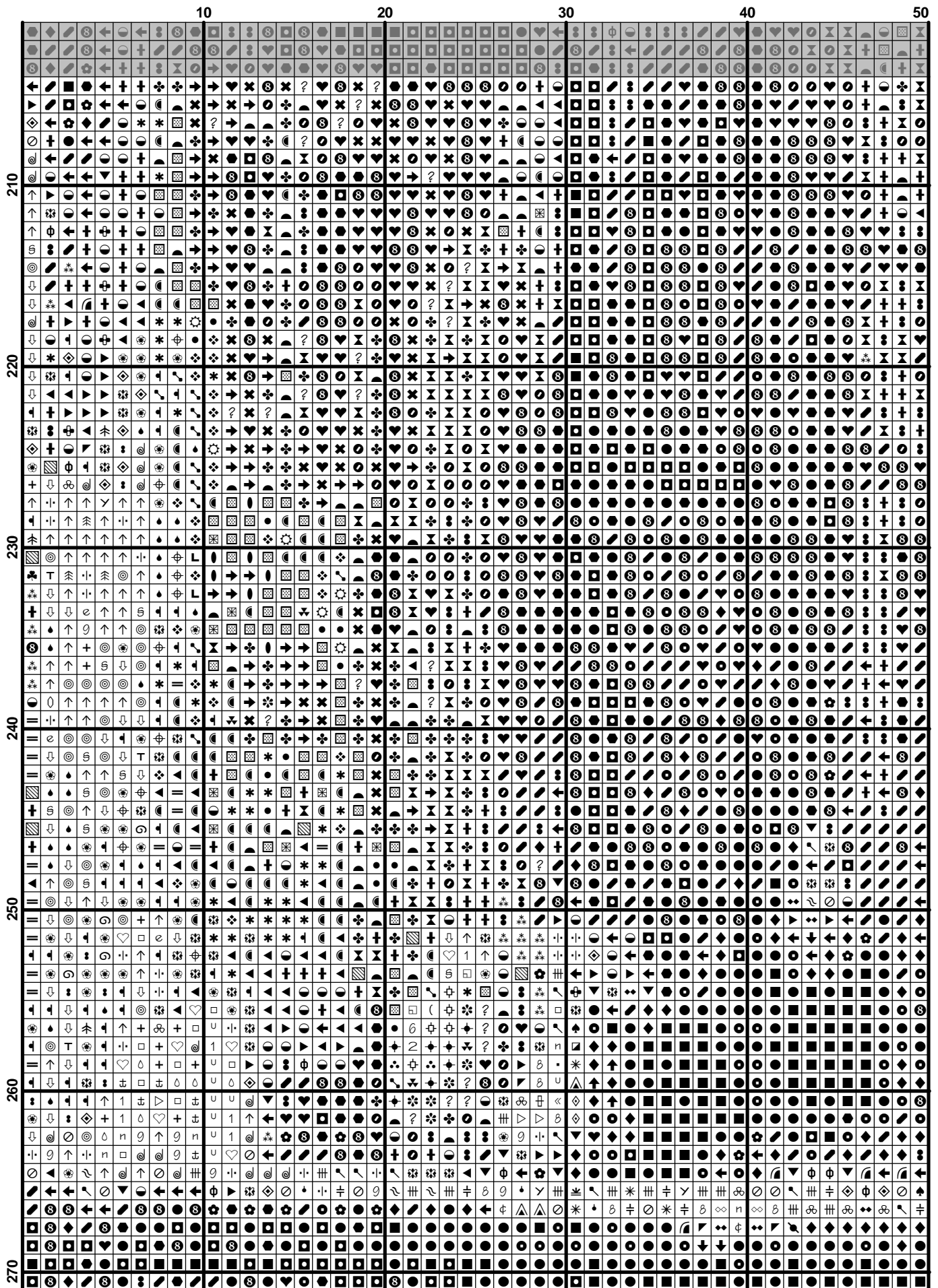
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	330	340	350	360	370
140
150
160
170
180
190
200



$$(43) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

(44)



[illegible]

[illegible]

[illegible]

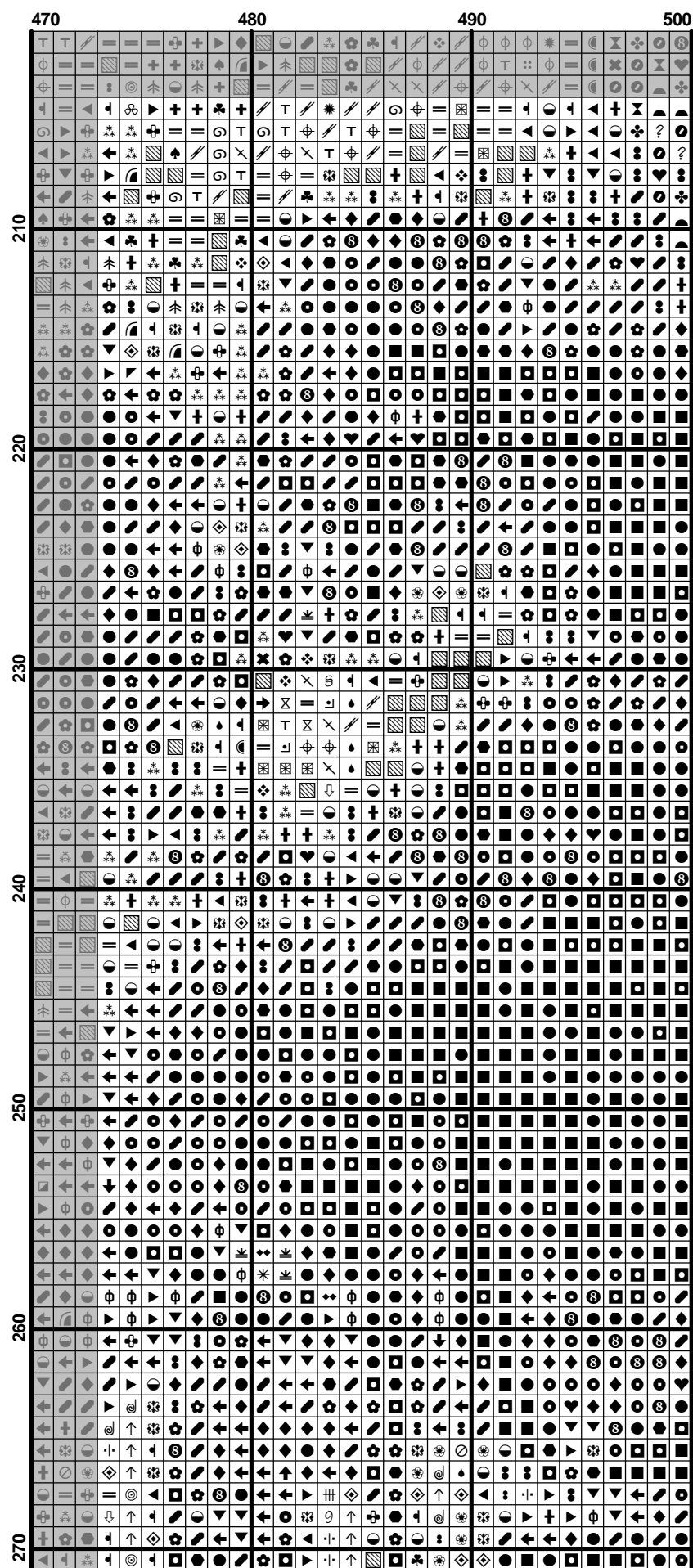
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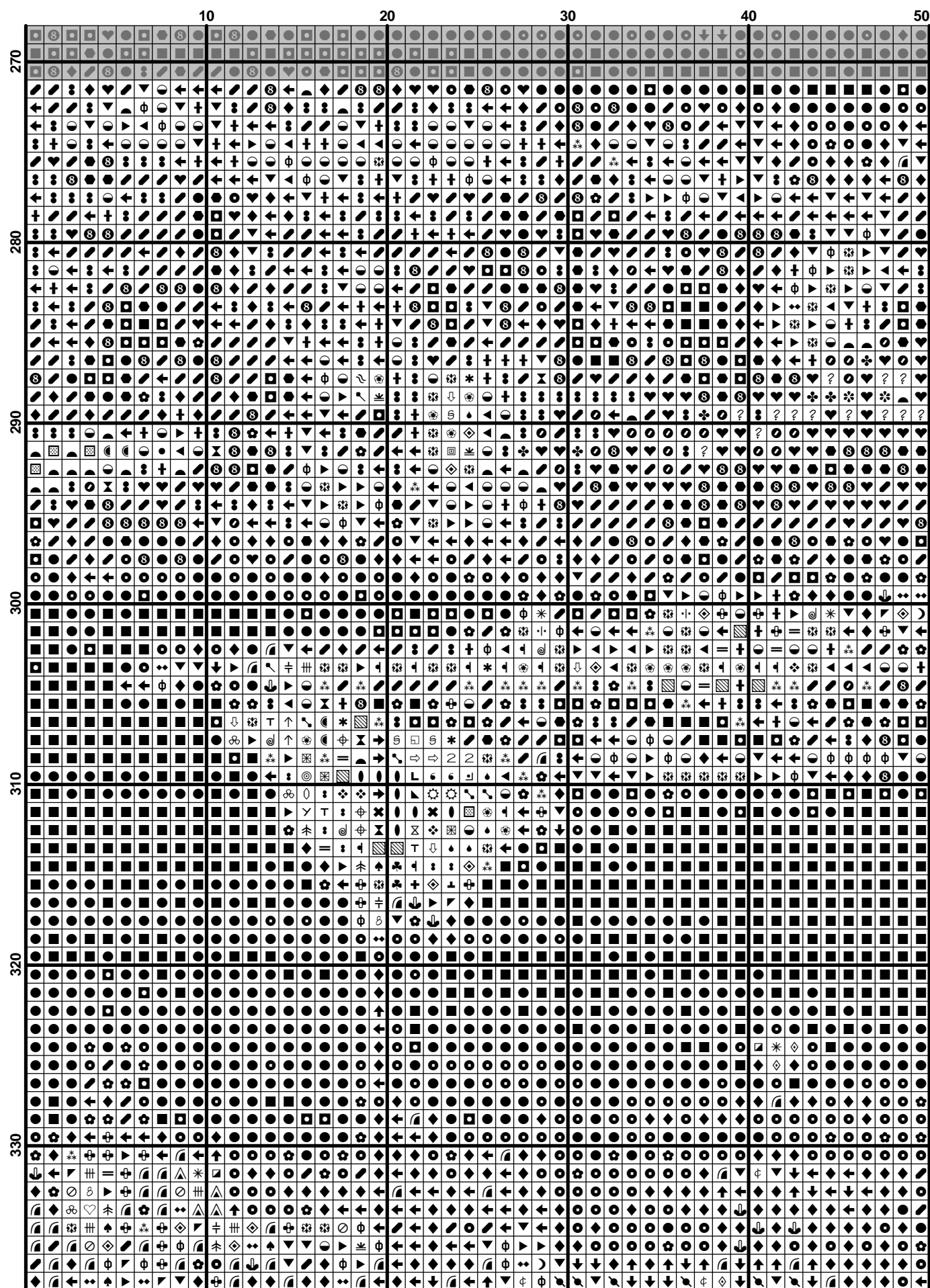
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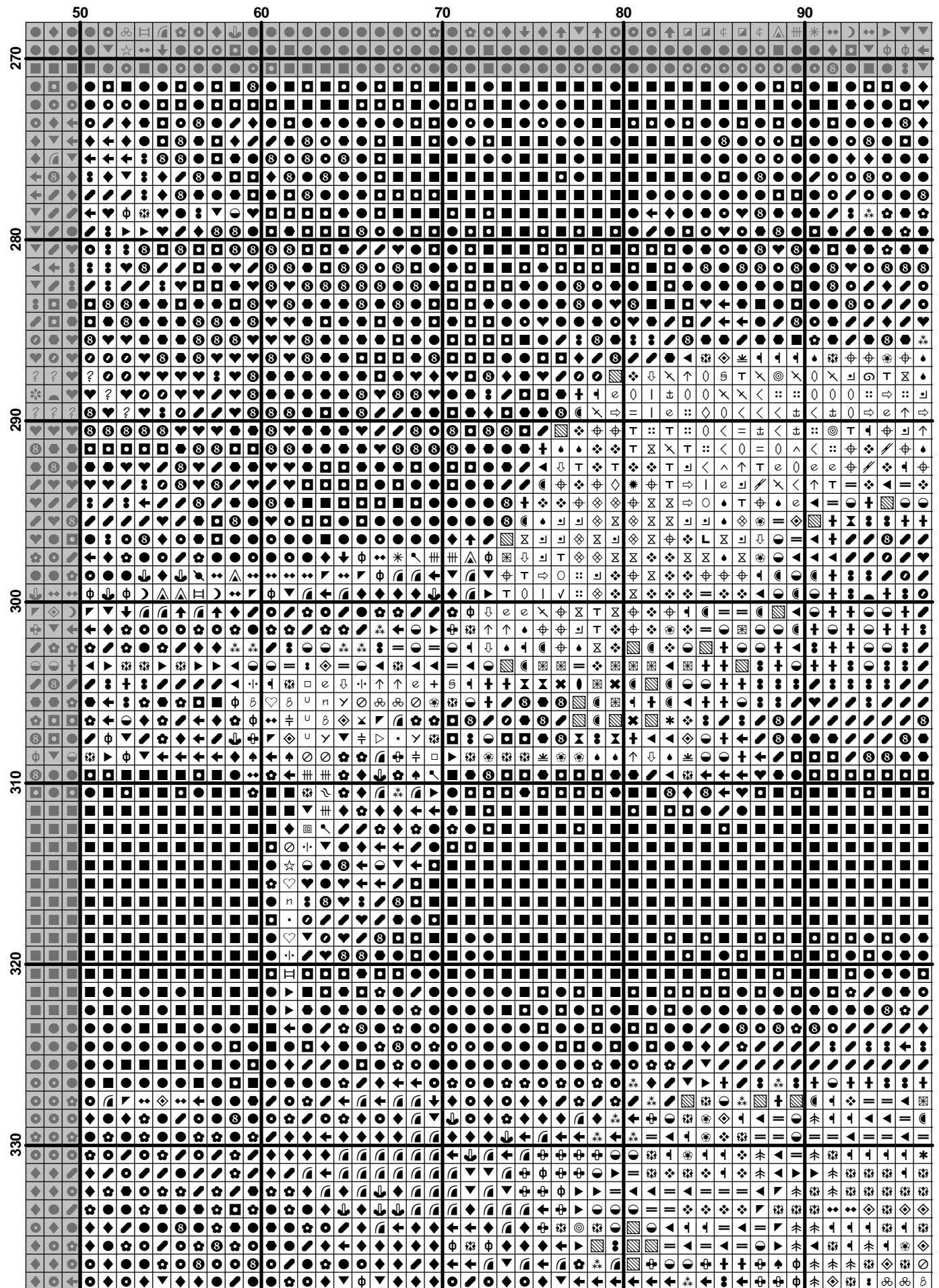
	330	340	350	360	370
210	U	U	U	U	U
220	U	U	U	U	U
230	U	U	U	U	U
240	U	U	U	U	U
250	U	U	U	U	U
260	U	U	U	U	U
270	U	U	U	U	U

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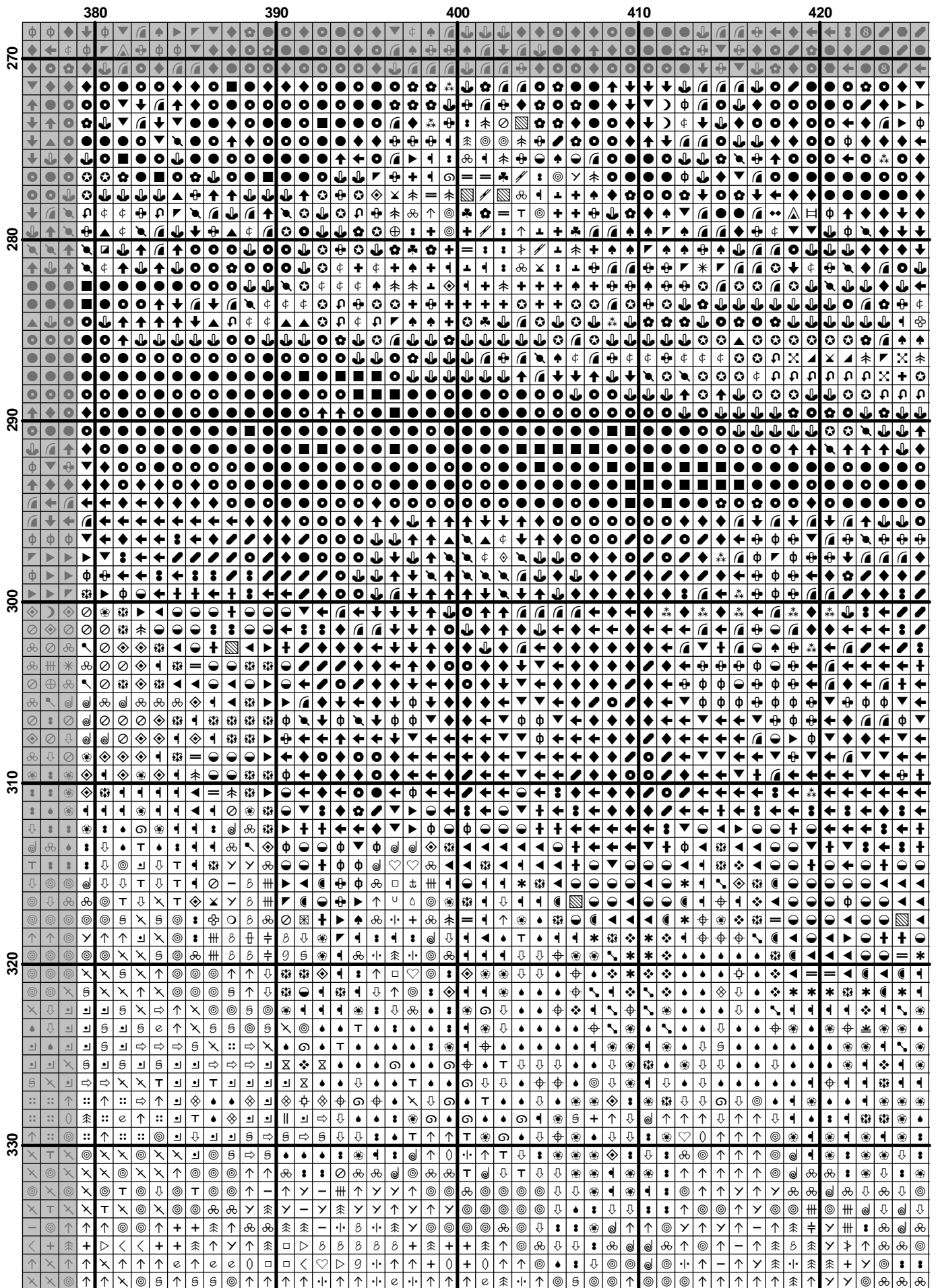
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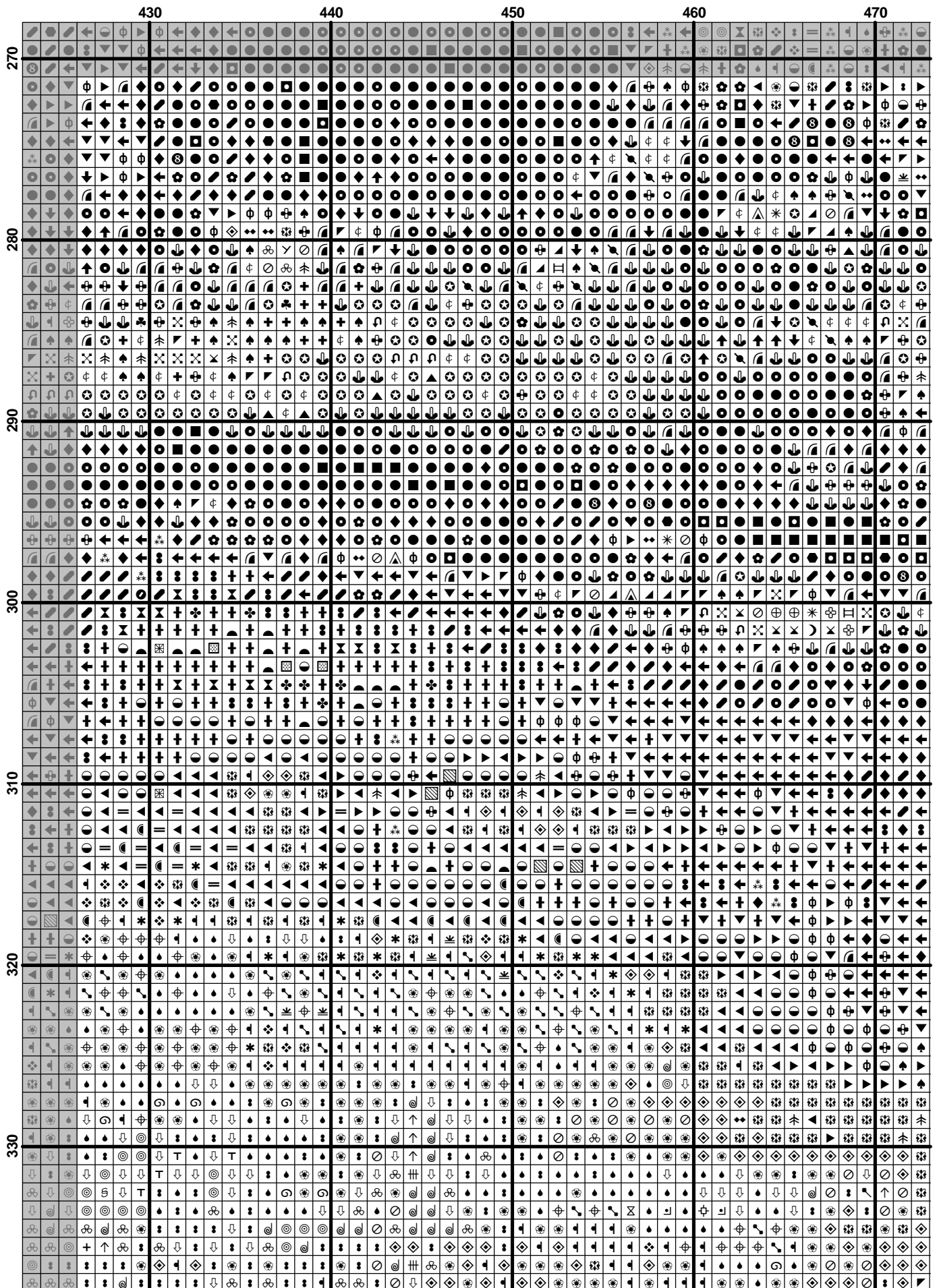
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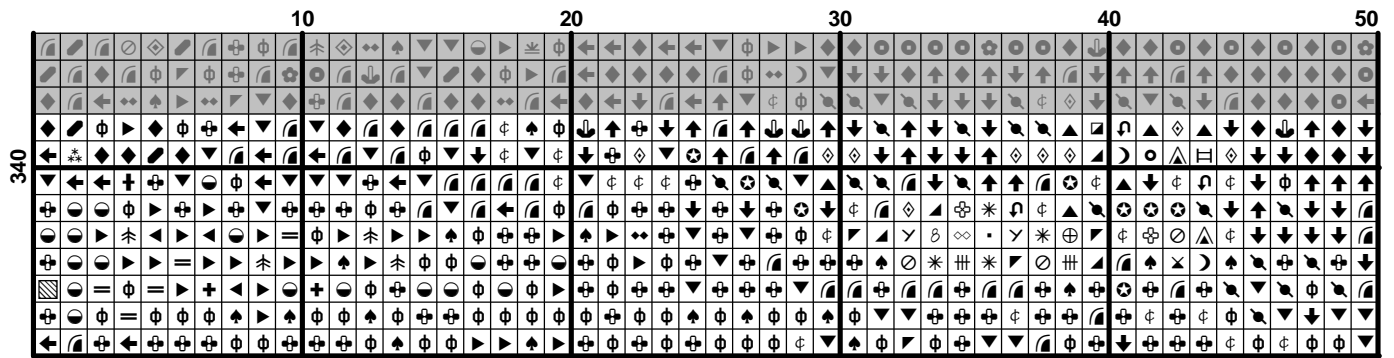
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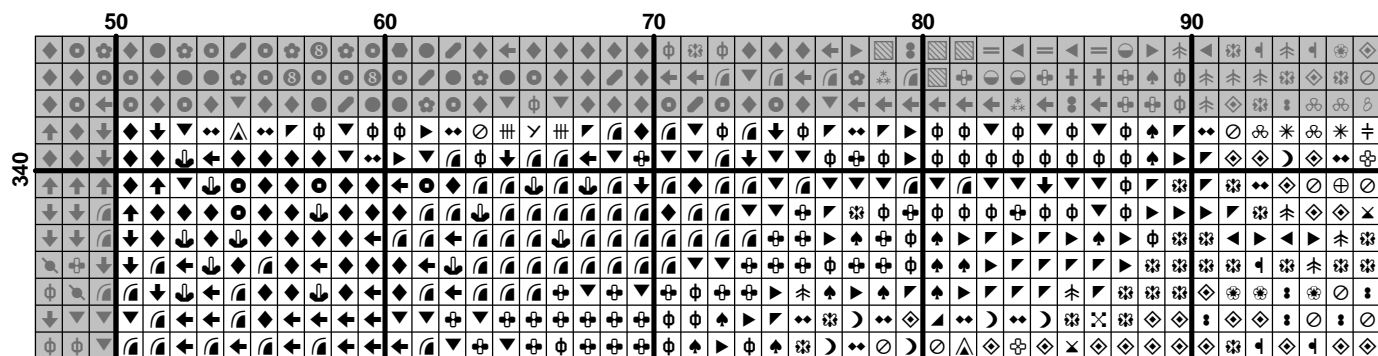
	330	340	350	360	370
270	Y	Y	Y	Y	Y
280	Y	Y	Y	Y	Y
290	Y	Y	Y	Y	Y
300	Y	Y	Y	Y	Y
310	Y	Y	Y	Y	Y
320	Y	Y	Y	Y	Y
330	Y	Y	Y	Y	Y











[illegible]

[illegible]

[illegible]

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