

1357 Summer Flowers in a Vase



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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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Summer Flowers in a Vase

Stitch Count	
Horizontal:	300
Vertical:	380

Recommended Fabric Color
Antique White

This table tells the size of the pattern (without any margins) and the size of the fabric required to stitch the pattern (including recommended margins). 3 inch margins have been added on each side in the 'Including Margins' row.

The sizes are given for 14, 16 and 18 stitches per inch fabrics.

Make sure to use the 'Including Margins' row when cutting the piece of fabric to be used. Also make sure that 3 inch margins are enough for your stitching technique and add more margin areas if necessary.

	14				16				18			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	55	21.37	69	27	48	18.7	60	23.62	43	16.625	54	21
Including Margins:	71	28	85	34	64	25	76	30	59	23	70	28
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	77	29.91	96	37.8	64	24.93	80	31.5	32	12.46	40	15.75
Including Margins:	93	36	112	44	80	31	96	38	48	19	56	22
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	30	11.96	38	15.12	29	11.5	37	14.53	28	11.08	35	14
Including Margins:	46	18	54	22	45	18	53	21	44	18	51	21
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	27	10.68	34	13.5	25	9.97	32	12.6	24	9.34	30	11.81
Including Margins:	43	17	50	20	41	16	48	19	40	16	46	18

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
◆	300	Mahogany-VY DK
■	310	Black
▣	347	Salmon-VY DK
Φ	349	Coral-DK
⊕	350	Coral-MD
>	353	Peach
▼	355	Terra Cotta-DK
⋈	356	Terra Cotta-MD
⌘	371	Mustard
⋈	407	Desert Sand-DK
⌘	420	Hazelnut Brown-DK
♠	434	Brown-LT
⊞	437	Tan-LT
⌘	471	Avocado Green-VY LT
√	524	Fern Green-VY LT
♥	543	Beige Brown-UL VY LT
▾	606	Bright Orange-Red
↘	611	Drab Brown
+	613	Drab Brown-VY LT
⊕	632	Desert Sand-UL VY DK
⊕	640	Beige Gray-VY DK
✓	647	Beaver Gray-MD
e	648	Beaver Gray-LT
l	727	Topaz-VY LT
●	730	Olive Green-VY DK
⊗	732	Olive Green
◁	734	Olive Green-LT
a	738	Tan-VY LT
<	739	Tan-UL VY LT
v	743	Yellow-MD
↑	745	Yellow-LT Pale
1	746	Off White
L	754	Peach-LT
..	783	Topaz-MD
➔	801	Coffee Brown-DK
n	819	Baby Pink-LT
⦿	833	Golden Olive-LT
◇	834	Golden Olive-VY LT

●	838	Beige Brown-VY DK
♣	839	Beige Brown-DK
L	840	Beige Brown-MD
^	841	Beige Brown-LT
✦	900	Burnt Orange-DK
←	918	Red Copper-DK
▲	919	Red Copper
↓	921	Copper
\$	922	Copper-LT
⌘	928	Gray Green-VY LT
⊗	938	Coffee Brown-UL DK
⋈	948	Peach-VY LT
∨	970	Pumpkin-LT
⊕	975	Golden Brown-DK
∩	976	Golden Brown-MD
m	977	Golden Brown-LT
·	3013	Khaki Green-LT
✕	3021	Brown Gray-VY DK
:	3024	Brown Gray-VY LT
○	3045	Yellow Beige-DK
♣	3051	Green Gray-DK
x	3064	Desert Sand
^	3078	Golden Yellow-VY LT
v	3340	Apricot-MD
c	3341	Apricot
5	3348	Yellow Green-LT
~	3770	Tawny-VY LT
↘	3778	Terra Cotta-LT
↘	3782	Mocha Brown-LT
◇	3822	Straw-LT
=	3824	Apricot-LT
⌘	3828	Hazelnut Brown
⊕	3829	Old Gold-VY DK
♦	3830	Terra Cotta-MD
∅	3856	Mahogany-UL VY LT
▲	3862	Mocha Beige-DK
⊗	3863	Mocha Beige-MD
u	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
⊗	647	Beaver Gray-MD	3861	Cocoa-LT
★	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
■	310	Black	938	Coffee Brown-UL DK
●	310	Black	935	Avocado Green-DK
☾	610	Drab Brown-DK	3862	Mocha Beige-DK
l	610	Drab Brown-DK	839	Beige Brown-DK
☾	610	Drab Brown-DK	632	Desert Sand-UL VY DK
☾	356	Terra Cotta-MD	632	Desert Sand-UL VY DK

◀	730	Olive Green-VY DK	732	Olive Green
☯	935	Avocado Green-DK	3051	Green Gray-DK
♥	935	Avocado Green-DK	938	Coffee Brown-UL DK
↖	3828	Hazelnut Brown	3863	Mocha Beige-MD
▣	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
✕	471	Avocado Green-VY LT	611	Drab Brown
⬢	371	Mustard	471	Avocado Green-VY LT
III	833	Golden Olive-LT	3828	Hazelnut Brown
«	712	Cream	3865	Winter White
田	612	Drab Brown-LT	3828	Hazelnut Brown
⊕	612	Drab Brown-LT	3863	Mocha Beige-MD
◊	3865	Winter White	3866	Mocha Brown-UL VY LT
✍	732	Olive Green	581	Moss Green
?	437	Tan-LT	3013	Khaki Green-LT
⦿	738	Tan-VY LT	739	Tan-UL VY LT
•	353	Peach	3078	Golden Yellow-VY LT
●	420	Hazelnut Brown-DK	632	Desert Sand-UL VY DK
✱	610	Drab Brown-DK	645	Beaver Gray-VY DK
—	407	Desert Sand-DK	437	Tan-LT
✕	420	Hazelnut Brown-DK	3829	Old Gold-VY DK
●	310	Black	838	Beige Brown-VY DK
I	420	Hazelnut Brown-DK	975	Golden Brown-DK
II	524	Fern Green-VY LT	647	Beaver Gray-MD
5	3778	Terra Cotta-LT	3825	Pumpkin-Pale
⦿	3021	Brown Gray-VY DK	3051	Green Gray-DK
✱	420	Hazelnut Brown-DK	434	Brown-LT
⊕	610	Drab Brown-DK	801	Coffee Brown-DK
)	369	Pistachio Green-VY LT	543	Beige Brown-UL VY LT
▣	839	Beige Brown-DK	3051	Green Gray-DK
⬢	356	Terra Cotta-MD	3830	Terra Cotta-MD
⌒	3824	Apricot-LT	745	Yellow-LT Pale
◉	300	Mahogany-VY DK	938	Coffee Brown-UL DK
≡	351	Coral	3778	Terra Cotta-LT
↘	632	Desert Sand-UL VY DK	3685	Mauve-DK
=	420	Hazelnut Brown-DK	3721	Shell Pink-DK
✉	612	Drab Brown-LT	3013	Khaki Green-LT
›	611	Drab Brown	3347	Yellow Green-MD
⬢	838	Beige Brown-VY DK	938	Coffee Brown-UL DK
5	833	Golden Olive-LT	922	Copper-LT
◊	3828	Hazelnut Brown	3829	Old Gold-VY DK
◊	712	Cream	3866	Mocha Brown-UL VY LT
Z	612	Drab Brown-LT	840	Beige Brown-MD
▣	632	Desert Sand-UL VY DK	840	Beige Brown-MD
田	840	Beige Brown-MD	841	Beige Brown-LT
Δ	612	Drab Brown-LT	3782	Mocha Brown-LT
//	356	Terra Cotta-MD	3862	Mocha Beige-DK
⊕	371	Mustard	3022	Brown Gray-MD
✱	610	Drab Brown-DK	3346	Hunter Green
H	734	Olive Green-LT	3828	Hazelnut Brown
✱	721	Orange Spice-MD	347	Salmon-VY DK
◉	3862	Mocha Beige-DK	3863	Mocha Beige-MD
▲	840	Beige Brown-MD	3862	Mocha Beige-DK
►	632	Desert Sand-UL VY DK	645	Beaver Gray-VY DK
◀	356	Terra Cotta-MD	3863	Mocha Beige-MD
⊕	610	Drab Brown-DK	3051	Green Gray-DK
⅓	350	Coral-MD	351	Coral
⦿	608	Bright Orange	3340	Apricot-MD
⦿	608	Bright Orange	900	Burnt Orange-DK
◊	900	Burnt Orange-DK	3340	Apricot-MD

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▲	347	Salmon-VY DK	350	Coral-MD
Ω	919	Red Copper	3830	Terra Cotta-MD
❖	921	Copper	3830	Terra Cotta-MD
☼	350	Coral-MD	3340	Apricot-MD
❁	347	Salmon-VY DK	918	Red Copper-DK
☐	900	Burnt Orange-DK	970	Pumpkin-LT
⬆	350	Coral-MD	3830	Terra Cotta-MD
◦	349	Coral-DK	900	Burnt Orange-DK
⊕	921	Copper	976	Golden Brown-MD
‡	922	Copper-LT	3828	Hazelnut Brown
∅	3829	Old Gold-VY DK	921	Copper
▣	434	Brown-LT	919	Red Copper
⬆	434	Brown-LT	921	Copper
⊙	349	Coral-DK	356	Terra Cotta-MD
↘	612	Drab Brown-LT	841	Beige Brown-LT
(746	Off White	3824	Apricot-LT
≡	3340	Apricot-MD	3341	Apricot
▣	300	Mahogany-VY DK	420	Hazelnut Brown-DK
↓	730	Olive Green-VY DK	801	Coffee Brown-DK
⬆	445	Lemon-LT	3348	Yellow Green-LT
△	834	Golden Olive-VY LT	3822	Straw-LT
⊗	975	Golden Brown-DK	3830	Terra Cotta-MD
2	608	Bright Orange	3341	Apricot
✂	300	Mahogany-VY DK	918	Red Copper-DK
↑	608	Bright Orange	3825	Pumpkin-Pale
⬆	612	Drab Brown-LT	3064	Desert Sand
7	612	Drab Brown-LT	842	Beige Brown-VY LT
8	928	Gray Green-VY LT	3024	Brown Gray-VY LT
⇒	369	Pistachio Green-VY LT	613	Drab Brown-VY LT
•	704	Chartreuse-BRT	833	Golden Olive-LT
T	3347	Yellow Green-MD	471	Avocado Green-VY LT
↑	838	Beige Brown-VY DK	3051	Green Gray-DK
9	741	Tangerine-MD	743	Yellow-MD
∅	725	Topaz	741	Tangerine-MD
#	741	Tangerine-MD	976	Golden Brown-MD
◇	3852	Straw-VY DK	3853	Autumn Gold-DK
☆	734	Olive Green-LT	977	Golden Brown-LT
*	721	Orange Spice-MD	900	Burnt Orange-DK
✱	610	Drab Brown-DK	840	Beige Brown-MD
6	738	Tan-VY LT	754	Peach-LT
▣	612	Drab Brown-LT	754	Peach-LT
‡	437	Tan-LT	3828	Hazelnut Brown
⊕	611	Drab Brown	3829	Old Gold-VY DK
▣	300	Mahogany-VY DK	730	Olive Green-VY DK
6	581	Moss Green	611	Drab Brown
0	543	Beige Brown-UL VY LT	3024	Brown Gray-VY LT
3	524	Fern Green-VY LT	648	Beaver Gray-LT
▷	3024	Brown Gray-VY LT	3866	Mocha Brown-UL VY LT
4	613	Drab Brown-VY LT	648	Beaver Gray-LT
::	612	Drab Brown-LT	524	Fern Green-VY LT
↔	754	Peach-LT	524	Fern Green-VY LT
H	640	Beige Gray-VY DK	840	Beige Brown-MD
●	918	Red Copper-DK	919	Red Copper
/	613	Drab Brown-VY LT	524	Fern Green-VY LT
↓	801	Coffee Brown-DK	3021	Brown Gray-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	
300	Mahogany-VY DK	1099	432	1047	412	942	370
310	Black	3827	1506	3645	1435	3280	1291
347	Salmon-VY DK	75	29	72	28	64	25
349	Coral-DK	59	23	56	22	50	19
350	Coral-MD	125	49	119	46	107	42
351	Coral	33	12	31	12	28	11
353	Peach	30	11	29	11	26	10
355	Terra Cotta-DK	72	28	69	27	62	24
356	Terra Cotta-MD	400	157	381	150	343	135
369	Pistachio Green-VY LT	58	22	56	22	50	19
371	Mustard	239	94	227	89	205	80
407	Desert Sand-DK	74	29	70	27	63	24
420	Hazelnut Brown-DK	931	366	886	348	798	314
434	Brown-LT	316	124	301	118	271	106
437	Tan-LT	255	100	242	95	218	85
445	Lemon-LT	12	4	11	4	10	3
471	Avocado Green-VY LT	94	37	89	35	80	31
524	Fern Green-VY LT	826	325	786	309	708	278
543	Beige Brown-UL VY LT	128	50	122	48	109	42
581	Moss Green	39	15	38	14	34	13
606	Bright Orange-Red	19	7	18	7	16	6
608	Bright Orange	164	64	157	61	141	55
610	Drab Brown-DK	1384	544	1318	518	1186	466
611	Drab Brown	391	153	373	146	335	131
612	Drab Brown-LT	1365	537	1300	511	1170	460
613	Drab Brown-VY LT	245	96	233	91	210	82
632	Desert Sand-UL VY DK	1138	448	1084	426	976	384
640	Beige Gray-VY DK	241	94	229	90	206	81
645	Beaver Gray-VY DK	266	104	254	100	228	89
647	Beaver Gray-MD	274	107	260	102	234	92
648	Beaver Gray-LT	285	112	271	106	244	96
704	Chartreuse-BRT	20	7	19	7	17	6
712	Cream	52	20	50	19	45	17
721	Orange Spice-MD	29	11	27	10	24	9
725	Topaz	5	1	5	1	5	1
727	Topaz-VY LT	21	8	20	7	18	7
730	Olive Green-VY DK	348	137	332	130	298	117
732	Olive Green	86	33	82	32	74	29
734	Olive Green-LT	70	27	67	26	60	23
738	Tan-VY LT	179	70	171	67	154	60
739	Tan-UL VY LT	125	49	119	46	107	42
741	Tangerine-MD	24	9	23	9	21	8
743	Yellow-MD	31	12	30	11	27	10
745	Yellow-LT Pale	59	23	56	22	50	19
746	Off White	140	55	133	52	120	47
754	Peach-LT	100	39	95	37	86	33
783	Topaz-MD	12	4	12	4	10	3
801	Coffee Brown-DK	1061	417	1010	397	909	357
819	Baby Pink-LT	33	12	32	12	29	11
833	Golden Olive-LT	66	25	63	24	56	22
834	Golden Olive-VY LT	46	18	43	16	39	15
838	Beige Brown-VY DK	1007	396	959	377	863	339
839	Beige Brown-DK	566	222	539	212	485	190

840	Beige Brown-MD	1202	473	1145	450	1030	405
841	Beige Brown-LT	883	347	841	331	757	298
842	Beige Brown-VY LT	47	18	45	17	40	15
900	Burnt Orange-DK	153	60	146	57	131	51
918	Red Copper-DK	441	173	420	165	378	148
919	Red Copper	230	90	219	86	197	77
921	Copper	208	81	199	78	179	70
922	Copper-LT	88	34	84	33	76	29
928	Gray Green-VY LT	147	57	140	55	126	49
935	Avocado Green-DK	402	158	383	150	345	135
938	Coffee Brown-UL DK	1470	578	1400	551	1260	496
948	Peach-VY LT	36	14	34	13	30	11
970	Pumpkin-LT	55	21	52	20	47	18
975	Golden Brown-DK	346	136	330	129	297	116
976	Golden Brown-MD	75	29	72	28	65	25
977	Golden Brown-LT	41	16	39	15	35	13
3013	Khaki Green-LT	181	71	172	67	155	61
3021	Brown Gray-VY DK	442	174	421	165	379	149
3022	Brown Gray-MD	135	53	129	50	116	45
3024	Brown Gray-VY LT	162	63	154	60	139	54
3045	Yellow Beige-DK	47	18	45	17	40	15
3051	Green Gray-DK	338	133	322	126	289	113
3064	Desert Sand	111	43	105	41	95	37
3078	Golden Yellow-VY LT	62	24	59	23	53	20
3340	Apricot-MD	197	77	188	74	169	66
3341	Apricot	80	31	76	29	69	27
3346	Hunter Green	39	15	37	14	34	13
3347	Yellow Green-MD	27	10	26	10	23	9
3348	Yellow Green-LT	48	18	46	18	41	16
3685	Mauve-DK	63	24	60	23	54	21
3721	Shell Pink-DK	67	26	64	25	58	22
3770	Tawny-VY LT	63	24	60	23	54	21
3778	Terra Cotta-LT	63	24	60	23	54	21
3782	Mocha Brown-LT	604	237	576	226	518	203
3822	Straw-LT	27	10	26	10	23	9
3824	Apricot-LT	68	26	65	25	58	22
3825	Pumpkin-Pale	36	14	34	13	30	11
3828	Hazelnut Brown	514	202	489	192	440	173
3829	Old Gold-VY DK	312	122	297	116	267	105
3830	Terra Cotta-MD	220	86	209	82	188	74
3852	Straw-VY DK	6	2	6	2	5	1
3853	Autumn Gold-DK	6	2	6	2	5	1
3856	Mahogany-UL VY LT	105	41	100	39	90	35
3861	Cocoa-LT	43	16	41	16	37	14
3862	Mocha Beige-DK	1427	561	1359	535	1223	481
3863	Mocha Beige-MD	1509	594	1437	565	1293	509
3865	Winter White	453	178	431	169	388	152
3866	Mocha Brown-UL VY LT	239	94	228	89	205	80
Ecu	Ecu	56	22	53	20	48	18

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
300	Mahogany-VY DK	1696	666	1413	555	707	278
310	Black	5904	2324	4920	1937	2460	968
347	Salmon-VY DK	115	45	96	38	48	19

349	Coral-DK	90	34	75	29	38	14
350	Coral-MD	193	76	161	63	80	32
351	Coral	50	20	42	17	21	8
353	Peach	47	18	39	15	20	8
355	Terra Cotta-DK	112	43	93	36	47	18
356	Terra Cotta-MD	617	243	515	203	257	101
369	Pistachio Green-VY LT	90	34	75	29	38	14
371	Mustard	369	144	308	120	154	60
407	Desert Sand-DK	113	43	95	36	47	18
420	Hazelnut Brown-DK	1436	565	1197	471	599	236
434	Brown-LT	488	191	407	159	203	80
437	Tan-LT	392	153	327	128	164	64
445	Lemon-LT	18	5	15	5	8	2
471	Avocado Green-VY LT	144	56	120	47	60	23
524	Fern Green-VY LT	1274	500	1062	417	531	209
543	Beige Brown-UL VY LT	196	76	164	63	82	32
581	Moss Green	61	23	51	20	26	10
606	Bright Orange-Red	29	11	24	9	12	5
608	Bright Orange	254	99	212	83	106	41
610	Drab Brown-DK	2135	839	1779	699	890	350
611	Drab Brown	603	236	503	197	251	98
612	Drab Brown-LT	2106	828	1755	690	878	345
613	Drab Brown-VY LT	378	148	315	123	158	62
632	Desert Sand-UL VY DK	1757	691	1464	576	732	288
640	Beige Gray-VY DK	371	146	309	122	155	61
645	Beaver Gray-VY DK	410	160	342	134	171	67
647	Beaver Gray-MD	421	166	351	138	176	69
648	Beaver Gray-LT	439	173	366	144	183	72
704	Chartreuse-BRT	31	11	26	9	13	5
712	Cream	81	31	68	26	34	13
721	Orange Spice-MD	43	16	36	14	18	7
725	Topaz	9	2	8	2	4	1
727	Topaz-VY LT	32	13	27	11	14	5
730	Olive Green-VY DK	536	211	447	176	224	88
732	Olive Green	133	52	111	44	56	22
734	Olive Green-LT	108	41	90	35	45	17
738	Tan-VY LT	277	108	231	90	116	45
739	Tan-UL VY LT	193	76	161	63	80	32
741	Tangerine-MD	38	14	32	12	16	6
743	Yellow-MD	49	18	41	15	20	8
745	Yellow-LT Pale	90	34	75	29	38	14
746	Off White	216	85	180	71	90	35
754	Peach-LT	155	59	129	50	65	25
783	Topaz-MD	18	5	15	5	8	2
801	Coffee Brown-DK	1636	643	1364	536	682	268
819	Baby Pink-LT	52	20	44	17	22	8
833	Golden Olive-LT	101	40	84	33	42	17
834	Golden Olive-VY LT	70	27	59	23	29	11
838	Beige Brown-VY DK	1553	610	1295	509	647	254
839	Beige Brown-DK	873	342	728	285	364	143
840	Beige Brown-MD	1854	729	1545	608	773	304
841	Beige Brown-LT	1363	536	1136	447	568	224
842	Beige Brown-VY LT	72	27	60	23	30	11
900	Burnt Orange-DK	236	92	197	77	98	38
918	Red Copper-DK	680	266	567	222	284	111
919	Red Copper	355	139	296	116	148	58
921	Copper	322	126	269	105	134	53
922	Copper-LT	137	52	114	44	57	22
928	Gray Green-VY LT	227	88	189	74	95	37

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935	Avocado Green-DK	621	243	518	203	259	101
938	Coffee Brown-UL DK	2268	893	1890	744	945	372
948	Peach-VY LT	54	20	45	17	23	8
970	Pumpkin-LT	85	32	71	27	35	14
975	Golden Brown-DK	535	209	446	174	223	87
976	Golden Brown-MD	117	45	98	38	49	19
977	Golden Brown-LT	63	23	53	20	26	10
3013	Khaki Green-LT	279	110	233	92	116	46
3021	Brown Gray-VY DK	682	268	569	224	284	112
3022	Brown Gray-MD	209	81	174	68	87	34
3024	Brown Gray-VY LT	250	97	209	81	104	41
3045	Yellow Beige-DK	72	27	60	23	30	11
3051	Green Gray-DK	520	203	434	170	217	85
3064	Desert Sand	171	67	143	56	71	28
3078	Golden Yellow-VY LT	95	36	80	30	40	15
3340	Apricot-MD	304	119	254	99	127	50
3341	Apricot	124	49	104	41	52	20
3346	Hunter Green	61	23	51	20	26	10
3347	Yellow Green-MD	41	16	35	14	17	7
3348	Yellow Green-LT	74	29	62	24	31	12
3685	Mauve-DK	97	38	81	32	41	16
3721	Shell Pink-DK	104	40	87	33	44	17
3770	Tawny-VY LT	97	38	81	32	41	16
3778	Terra Cotta-LT	97	38	81	32	41	16
3782	Mocha Brown-LT	932	365	777	305	389	152
3822	Straw-LT	41	16	35	14	17	7
3824	Apricot-LT	104	40	87	33	44	17
3825	Pumpkin-Pale	54	20	45	17	23	8
3828	Hazelnut Brown	792	311	660	260	330	130
3829	Old Gold-VY DK	481	189	401	158	200	79
3830	Terra Cotta-MD	338	133	282	111	141	56
3852	Straw-VY DK	9	2	8	2	4	1
3853	Autumn Gold-DK	9	2	8	2	4	1
3856	Mahogany-UL VY LT	162	63	135	53	68	26
3861	Cocoa-LT	67	25	56	21	28	11
3862	Mocha Beige-DK	2201	866	1835	722	917	361
3863	Mocha Beige-MD	2327	916	1940	764	970	382
3865	Winter White	698	274	582	228	291	114
3866	Mocha Brown-UL VY LT	369	144	308	120	154	60
Ecru	Ecru	86	32	72	27	36	14

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
300	Mahogany-VY DK	678	266	652	256	628	247
310	Black	2362	930	2271	894	2187	861
347	Salmon-VY DK	46	18	44	17	43	17
349	Coral-DK	36	14	35	13	33	13
350	Coral-MD	77	30	74	29	71	28
351	Coral	20	8	19	8	19	7
353	Peach	19	7	18	7	17	7
355	Terra Cotta-DK	45	17	43	17	41	16
356	Terra Cotta-MD	247	97	237	93	229	90
369	Pistachio Green-VY LT	36	14	35	13	33	13
371	Mustard	148	58	142	55	137	53
407	Desert Sand-DK	45	17	44	17	42	16

420	Hazelnut Brown-DK	575	226	552	217	532	209
434	Brown-LT	195	76	188	73	181	71
437	Tan-LT	157	61	151	59	145	57
445	Lemon-LT	7	2	7	2	7	2
471	Avocado Green-VY LT	58	22	55	21	53	21
524	Fern Green-VY LT	510	200	490	192	472	185
543	Beige Brown-UL VY LT	78	30	75	29	73	28
581	Moss Green	24	9	24	9	23	9
606	Bright Orange-Red	12	4	11	4	11	4
608	Bright Orange	102	40	98	38	94	37
610	Drab Brown-DK	854	336	821	323	791	311
611	Drab Brown	241	94	232	91	223	87
612	Drab Brown-LT	842	331	810	318	780	307
613	Drab Brown-VY LT	151	59	145	57	140	55
632	Desert Sand-UL VY DK	703	276	676	266	651	256
640	Beige Gray-VY DK	148	58	143	56	137	54
645	Beaver Gray-VY DK	164	64	158	62	152	59
647	Beaver Gray-MD	168	66	162	64	156	61
648	Beaver Gray-LT	176	69	169	66	163	64
704	Chartreuse-BRT	12	4	12	4	11	4
712	Cream	32	12	31	12	30	11
721	Orange Spice-MD	17	6	17	6	16	6
725	Topaz	4	1	3	1	3	1
727	Topaz-VY LT	13	5	12	5	12	5
730	Olive Green-VY DK	215	84	206	81	199	78
732	Olive Green	53	21	51	20	49	19
734	Olive Green-LT	43	17	42	16	40	15
738	Tan-VY LT	111	43	107	42	103	40
739	Tan-UL VY LT	77	30	74	29	71	28
741	Tangerine-MD	15	6	15	6	14	5
743	Yellow-MD	19	7	19	7	18	7
745	Yellow-LT Pale	36	14	35	13	33	13
746	Off White	86	34	83	33	80	31
754	Peach-LT	62	24	60	23	57	22
783	Topaz-MD	7	2	7	2	7	2
801	Coffee Brown-DK	654	257	629	247	606	238
819	Baby Pink-LT	21	8	20	8	19	7
833	Golden Olive-LT	40	16	39	15	37	15
834	Golden Olive-VY LT	28	11	27	10	26	10
838	Beige Brown-VY DK	621	244	597	235	575	226
839	Beige Brown-DK	349	137	336	132	323	127
840	Beige Brown-MD	742	292	713	280	687	270
841	Beige Brown-LT	545	215	524	206	505	199
842	Beige Brown-VY LT	29	11	28	10	27	10
900	Burnt Orange-DK	94	37	91	35	87	34
918	Red Copper-DK	272	107	262	102	252	99
919	Red Copper	142	55	136	53	131	51
921	Copper	129	50	124	48	119	47
922	Copper-LT	55	21	53	20	51	19
928	Gray Green-VY LT	91	35	87	34	84	33
935	Avocado Green-DK	248	97	239	93	230	90
938	Coffee Brown-UL DK	907	357	872	343	840	331
948	Peach-VY LT	22	8	21	8	20	7
970	Pumpkin-LT	34	13	33	12	31	12
975	Golden Brown-DK	214	84	206	80	198	77
976	Golden Brown-MD	47	18	45	17	43	17
977	Golden Brown-LT	25	9	24	9	23	9
3013	Khaki Green-LT	112	44	107	42	103	41
3021	Brown Gray-VY DK	273	107	262	103	253	99

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3022	Brown Gray-MD	84	32	80	31	77	30
3024	Brown Gray-VY LT	100	39	96	37	93	36
3045	Yellow Beige-DK	29	11	28	10	27	10
3051	Green Gray-DK	208	81	200	78	193	75
3064	Desert Sand	68	27	66	26	63	25
3078	Golden Yellow-VY LT	38	14	37	14	35	13
3340	Apricot-MD	122	48	117	46	113	44
3341	Apricot	50	19	48	19	46	18
3346	Hunter Green	24	9	24	9	23	9
3347	Yellow Green-MD	17	6	16	6	15	6
3348	Yellow Green-LT	30	12	28	11	27	11
3685	Mauve-DK	39	15	37	15	36	14
3721	Shell Pink-DK	42	16	40	15	39	15
3770	Tawny-VY LT	39	15	37	15	36	14
3778	Terra Cotta-LT	39	15	37	15	36	14
3782	Mocha Brown-LT	373	146	359	141	345	135
3822	Straw-LT	17	6	16	6	15	6
3824	Apricot-LT	42	16	40	15	39	15
3825	Pumpkin-Pale	22	8	21	8	20	7
3828	Hazelnut Brown	317	125	305	120	293	115
3829	Old Gold-VY DK	192	76	185	73	178	70
3830	Terra Cotta-MD	135	53	130	51	125	49
3852	Straw-VY DK	4	1	3	1	3	1
3853	Autumn Gold-DK	4	1	3	1	3	1
3856	Mahogany-UL VY LT	65	25	62	24	60	23
3861	Cocoa-LT	27	10	26	10	25	9
3862	Mocha Beige-DK	881	346	847	333	815	321
3863	Mocha Beige-MD	931	366	895	352	862	339
3865	Winter White	279	109	269	105	259	101
3866	Mocha Brown-UL VY LT	148	58	142	55	137	53
Ecru	Ecru	35	13	33	12	32	12

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
300	Mahogany-VY DK	606	238	565	222	530	208
310	Black	2109	830	1968	775	1845	726
347	Salmon-VY DK	41	16	38	15	36	14
349	Coral-DK	32	12	30	11	28	11
350	Coral-MD	69	27	64	25	60	24
351	Coral	18	7	17	7	16	6
353	Peach	17	6	16	6	15	6
355	Terra Cotta-DK	40	15	37	14	35	14
356	Terra Cotta-MD	221	87	206	81	193	76
369	Pistachio Green-VY LT	32	12	30	11	28	11
371	Mustard	132	51	123	48	115	45
407	Desert Sand-DK	41	15	38	14	35	14
420	Hazelnut Brown-DK	513	202	479	188	449	177
434	Brown-LT	174	68	163	64	152	60
437	Tan-LT	140	55	131	51	123	48
445	Lemon-LT	6	2	6	2	6	2
471	Avocado Green-VY LT	51	20	48	19	45	17
524	Fern Green-VY LT	455	179	425	167	398	156
543	Beige Brown-UL VY LT	70	27	65	25	61	24
581	Moss Green	22	8	20	8	19	7
606	Bright Orange-Red	10	4	10	4	9	3

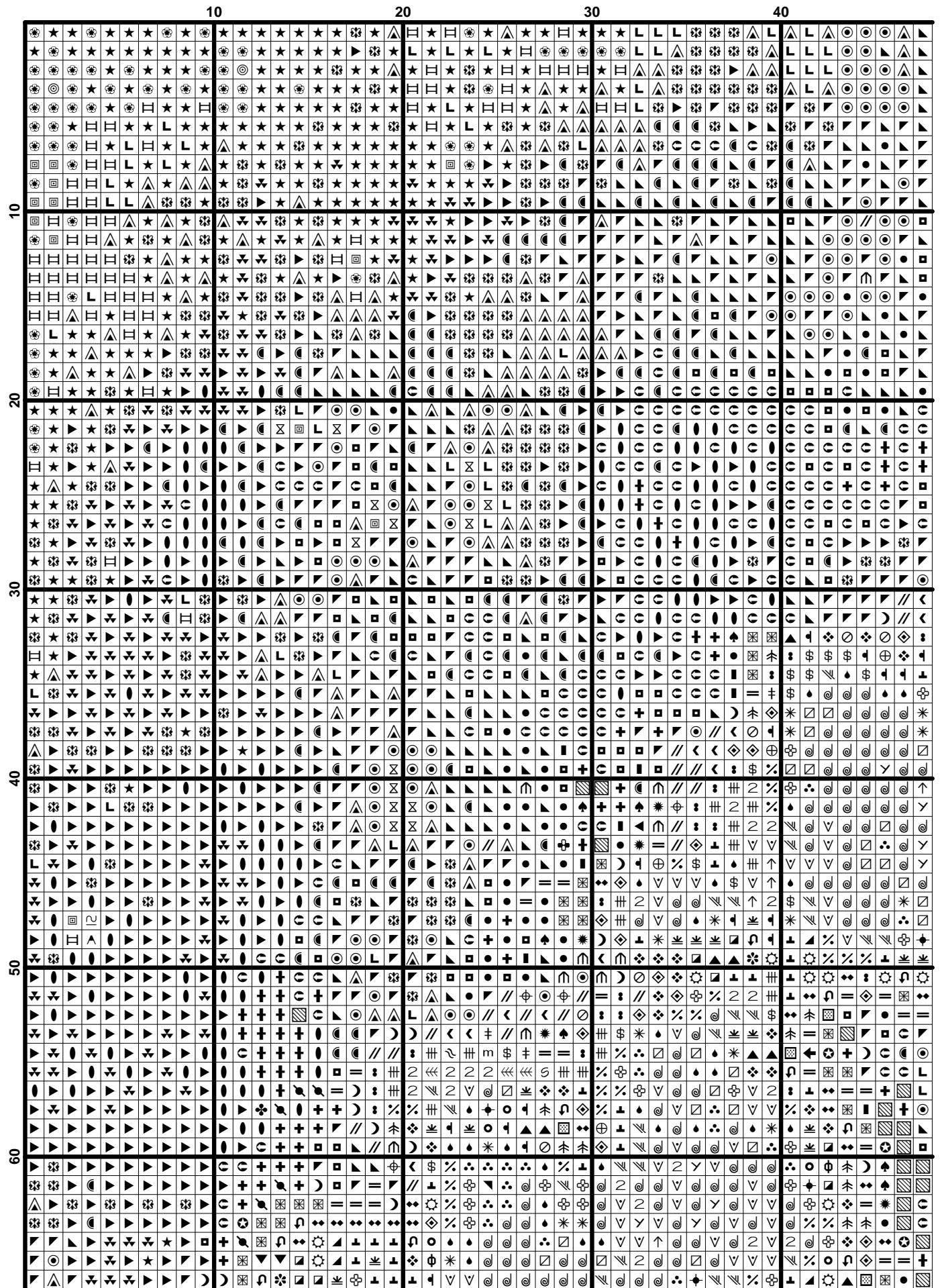
608	Bright Orange	91	35	85	33	79	31
610	Drab Brown-DK	762	300	712	280	667	262
611	Drab Brown	215	84	201	79	188	74
612	Drab Brown-LT	752	296	702	276	658	259
613	Drab Brown-VY LT	135	53	126	49	118	46
632	Desert Sand-UL VY DK	627	247	586	230	549	216
640	Beige Gray-VY DK	132	52	124	49	116	46
645	Beaver Gray-VY DK	147	57	137	53	128	50
647	Beaver Gray-MD	150	59	140	55	132	52
648	Beaver Gray-LT	157	62	146	58	137	54
704	Chartreuse-BRT	11	4	10	4	10	3
712	Cream	29	11	27	10	25	10
721	Orange Spice-MD	15	6	14	5	14	5
725	Topaz	3	1	3	1	3	1
727	Topaz-VY LT	12	5	11	4	10	4
730	Olive Green-VY DK	192	75	179	70	168	66
732	Olive Green	48	19	44	17	42	16
734	Olive Green-LT	39	15	36	14	34	13
738	Tan-VY LT	99	39	92	36	87	34
739	Tan-UL VY LT	69	27	64	25	60	24
741	Tangerine-MD	14	5	13	5	12	5
743	Yellow-MD	17	6	16	6	15	6
745	Yellow-LT Pale	32	12	30	11	28	11
746	Off White	77	30	72	28	68	26
754	Peach-LT	55	21	52	20	48	19
783	Topaz-MD	6	2	6	2	6	2
801	Coffee Brown-DK	584	230	545	214	511	201
819	Baby Pink-LT	19	7	17	7	16	6
833	Golden Olive-LT	36	14	34	13	32	12
834	Golden Olive-VY LT	25	10	23	9	22	8
838	Beige Brown-VY DK	555	218	518	203	485	191
839	Beige Brown-DK	312	122	291	114	273	107
840	Beige Brown-MD	662	260	618	243	579	228
841	Beige Brown-LT	487	192	454	179	426	168
842	Beige Brown-VY LT	26	10	24	9	23	8
900	Burnt Orange-DK	84	33	79	31	74	29
918	Red Copper-DK	243	95	227	89	213	83
919	Red Copper	127	50	118	46	111	43
921	Copper	115	45	107	42	101	39
922	Copper-LT	49	19	46	17	43	16
928	Gray Green-VY LT	81	32	76	29	71	28
935	Avocado Green-DK	222	87	207	81	194	76
938	Coffee Brown-UL DK	810	319	756	298	709	279
948	Peach-VY LT	19	7	18	7	17	6
970	Pumpkin-LT	30	12	28	11	26	10
975	Golden Brown-DK	191	75	178	70	167	65
976	Golden Brown-MD	42	16	39	15	37	14
977	Golden Brown-LT	23	8	21	8	20	7
3013	Khaki Green-LT	100	39	93	37	87	34
3021	Brown Gray-VY DK	244	96	227	89	213	84
3022	Brown Gray-MD	75	29	70	27	65	25
3024	Brown Gray-VY LT	89	35	83	32	78	30
3045	Yellow Beige-DK	26	10	24	9	23	8
3051	Green Gray-DK	186	73	173	68	163	64
3064	Desert Sand	61	24	57	22	53	21
3078	Golden Yellow-VY LT	34	13	32	12	30	11
3340	Apricot-MD	109	42	101	40	95	37
3341	Apricot	44	17	41	16	39	15
3346	Hunter Green	22	8	20	8	19	7

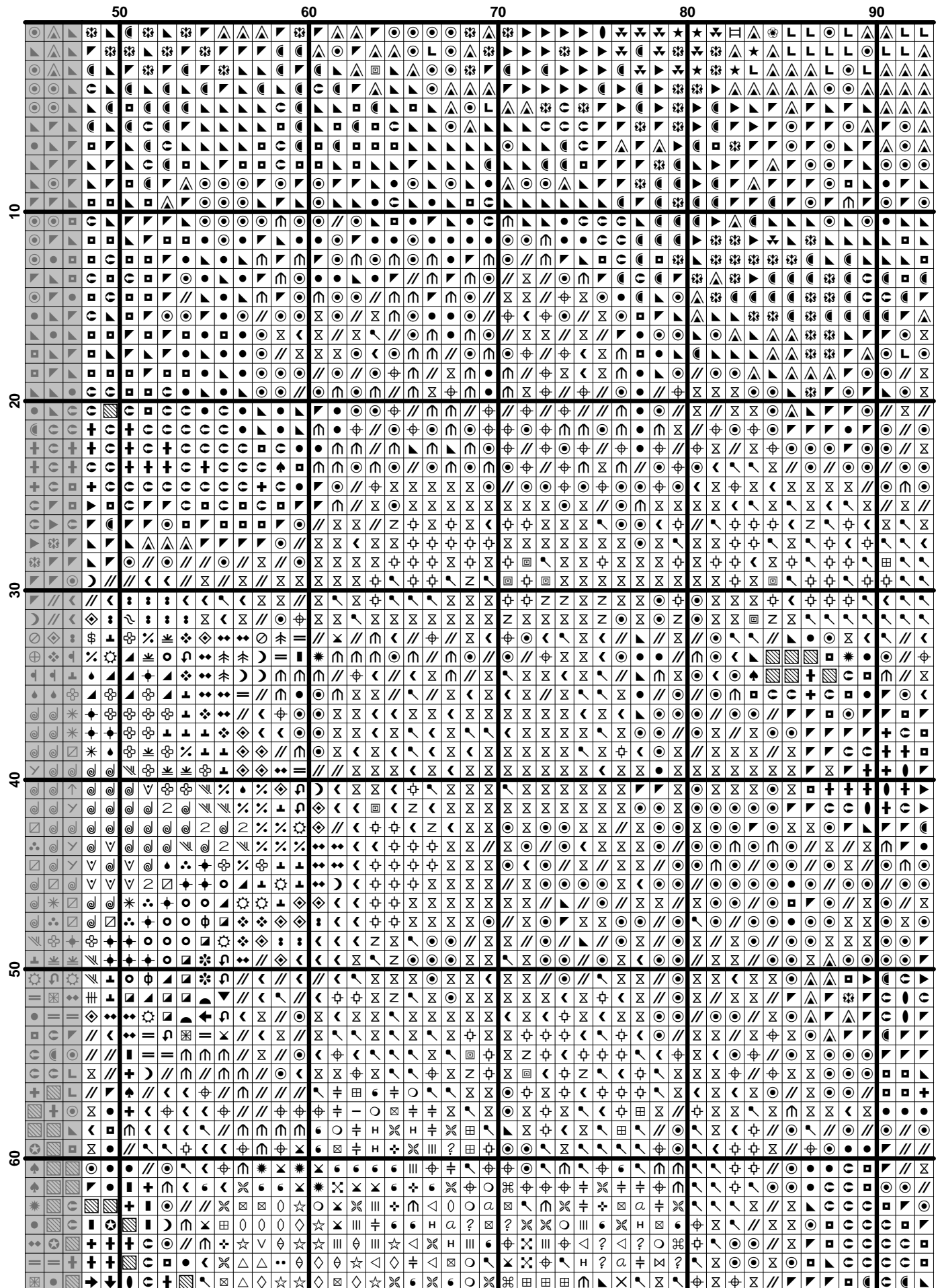
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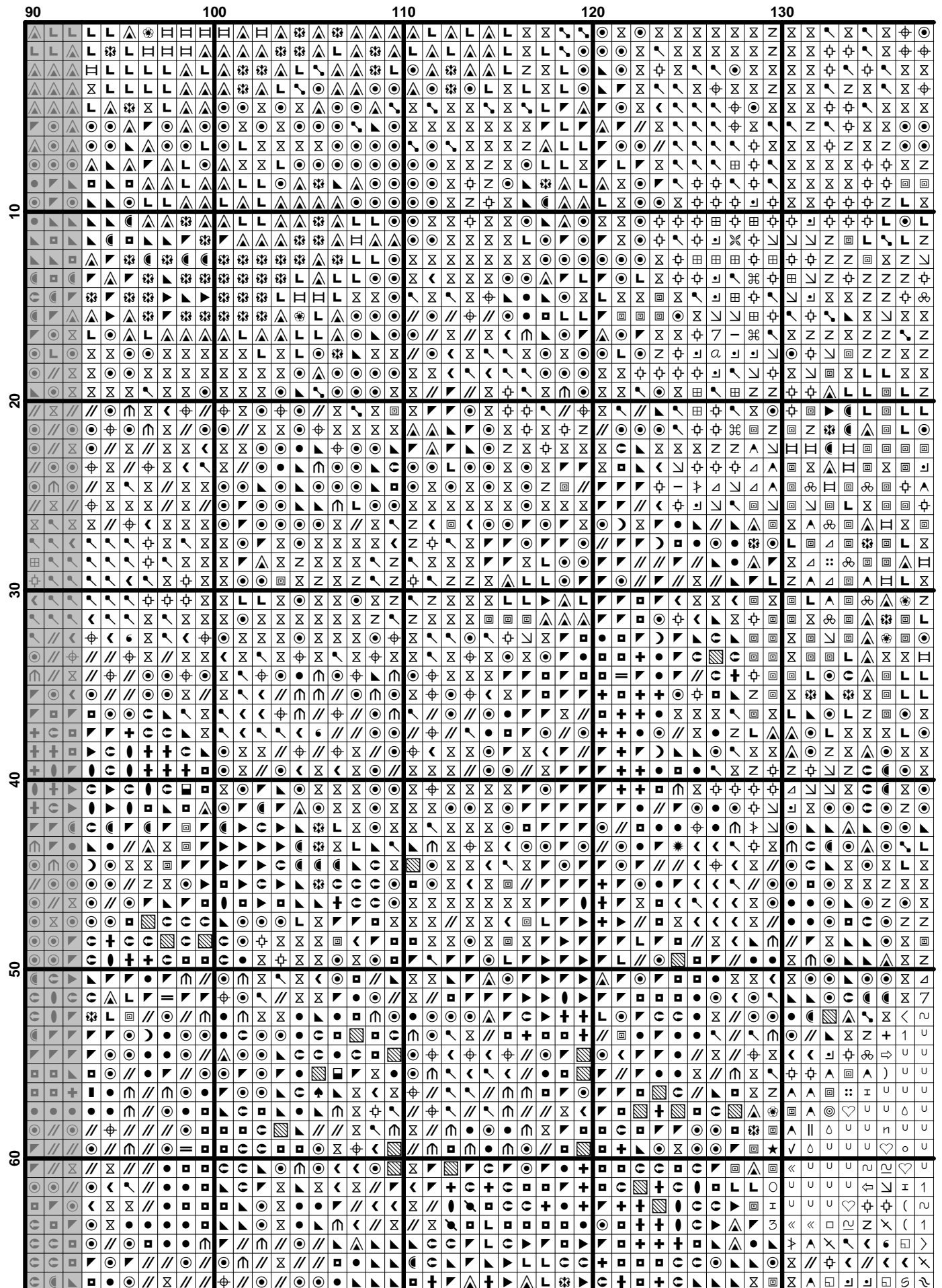
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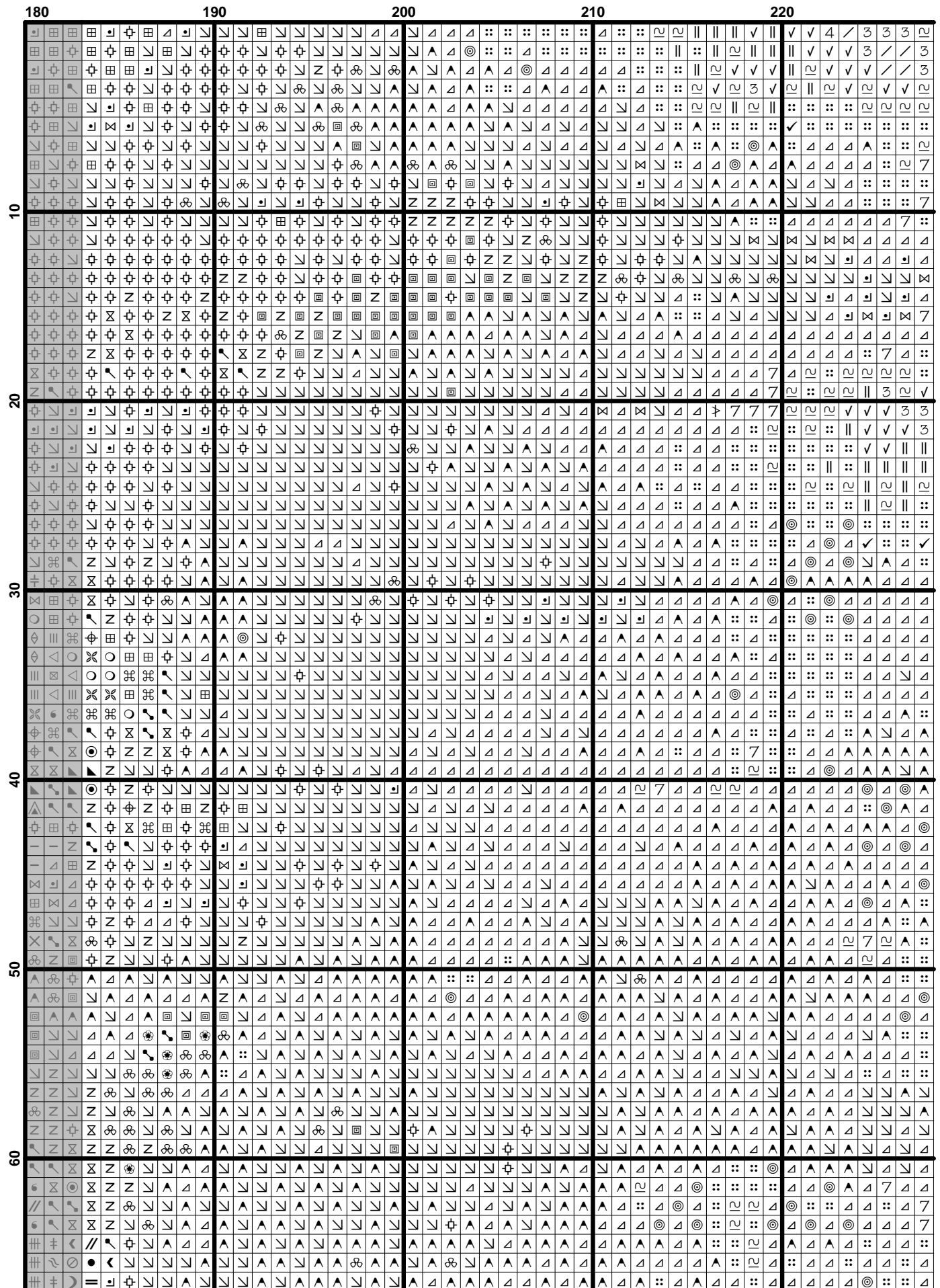
3347	Yellow Green-MD	15	6	14	5	13	5
3348	Yellow Green-LT	26	10	25	10	23	9
3685	Mauve-DK	35	14	32	13	30	12
3721	Shell Pink-DK	37	14	35	13	33	12
3770	Tawny-VY LT	35	14	32	13	30	12
3778	Terra Cotta-LT	35	14	32	13	30	12
3782	Mocha Brown-LT	333	131	311	122	291	114
3822	Straw-LT	15	6	14	5	13	5
3824	Apricot-LT	37	14	35	13	33	12
3825	Pumpkin-Pale	19	7	18	7	17	6
3828	Hazelnut Brown	283	111	264	104	248	97
3829	Old Gold-VY DK	172	68	160	63	150	59
3830	Terra Cotta-MD	121	48	113	44	106	42
3852	Straw-VY DK	3	1	3	1	3	1
3853	Autumn Gold-DK	3	1	3	1	3	1
3856	Mahogany-UL VY LT	58	23	54	21	51	20
3861	Cocoa-LT	24	9	22	8	21	8
3862	Mocha Beige-DK	786	309	734	289	688	271
3863	Mocha Beige-MD	831	327	776	305	727	286
3865	Winter White	249	98	233	91	218	86
3866	Mocha Brown-UL VY LT	132	51	123	48	115	45
Ecru	Ecru	31	12	29	11	27	10





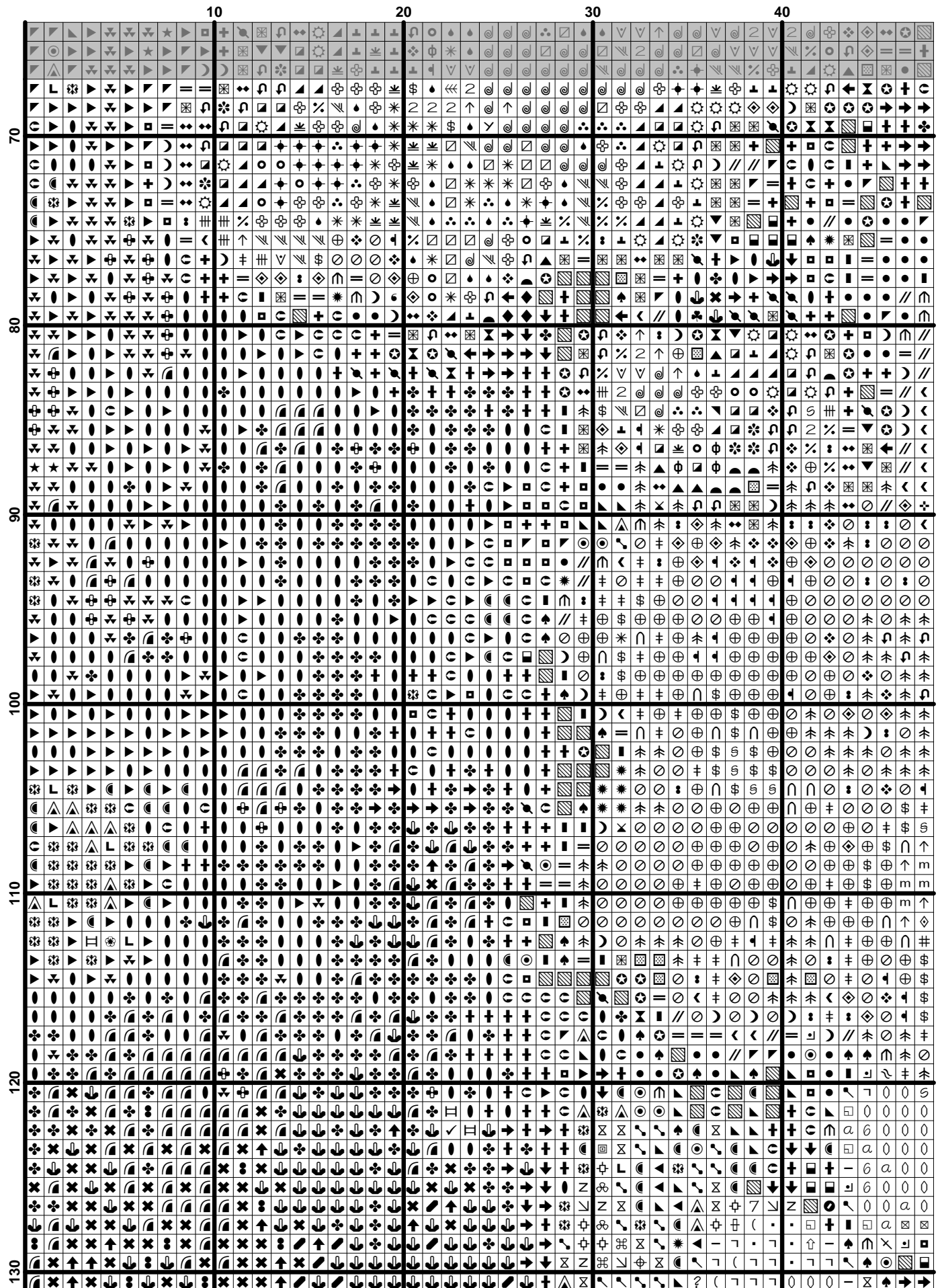


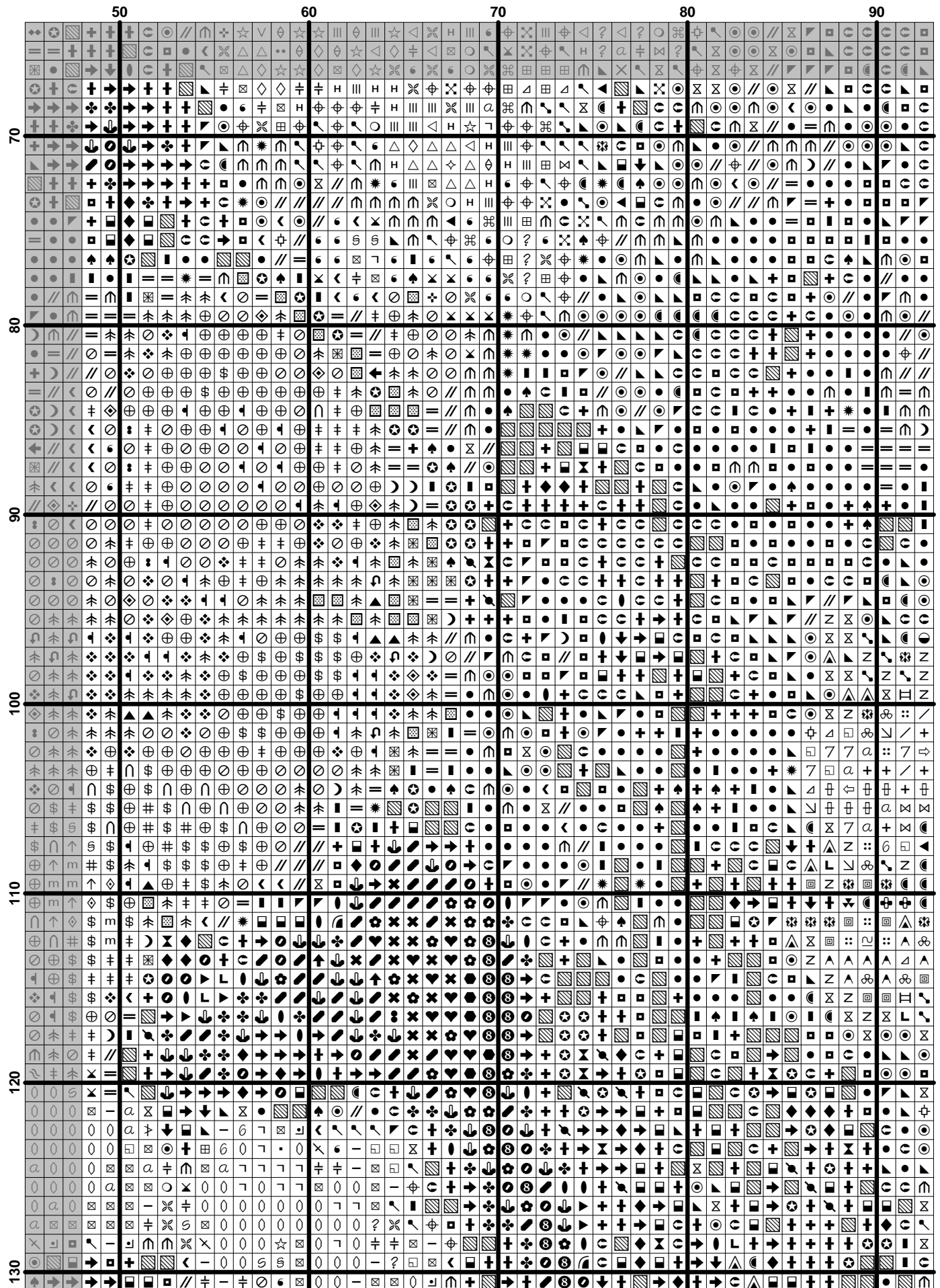
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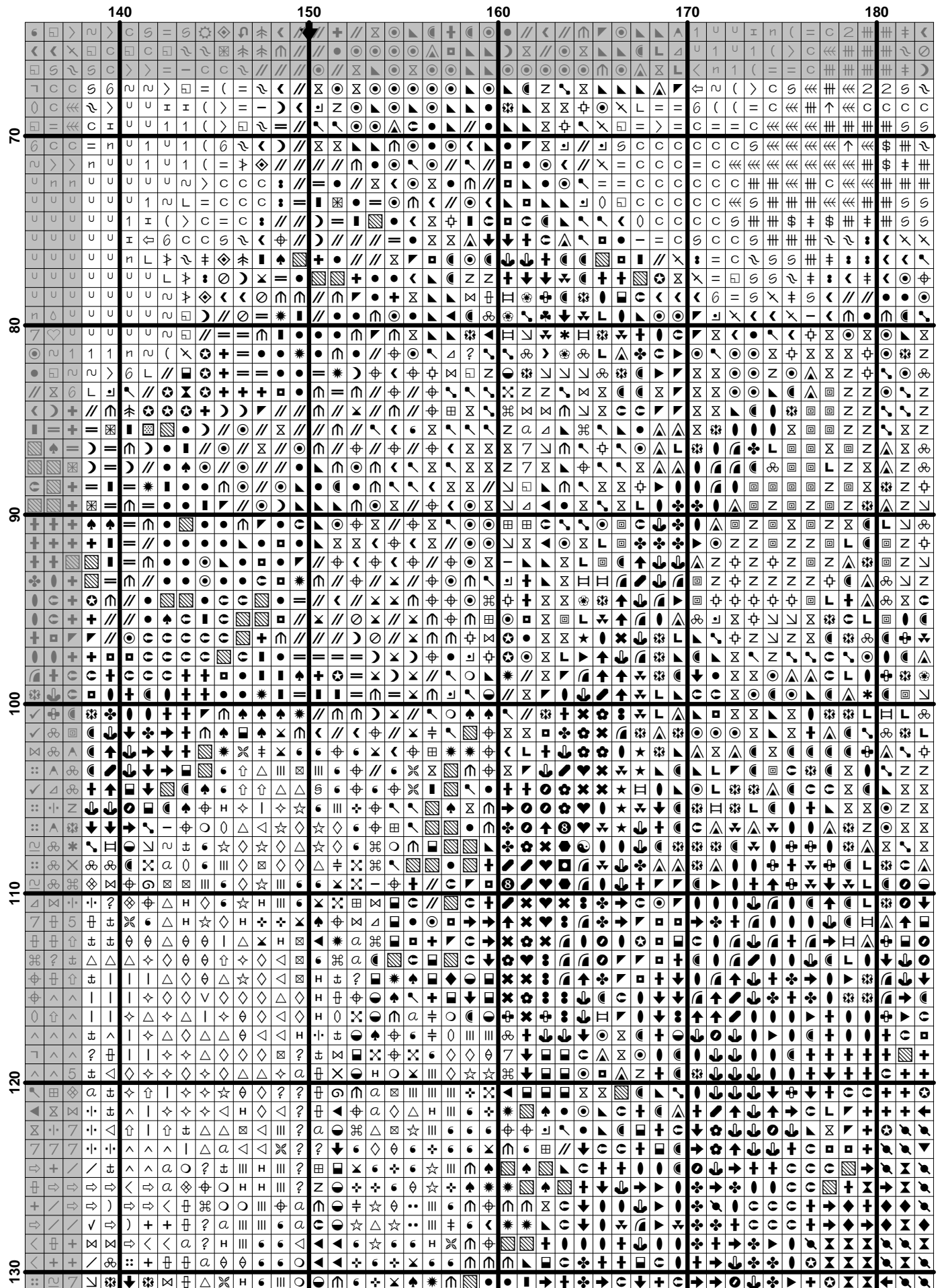
$$(13) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

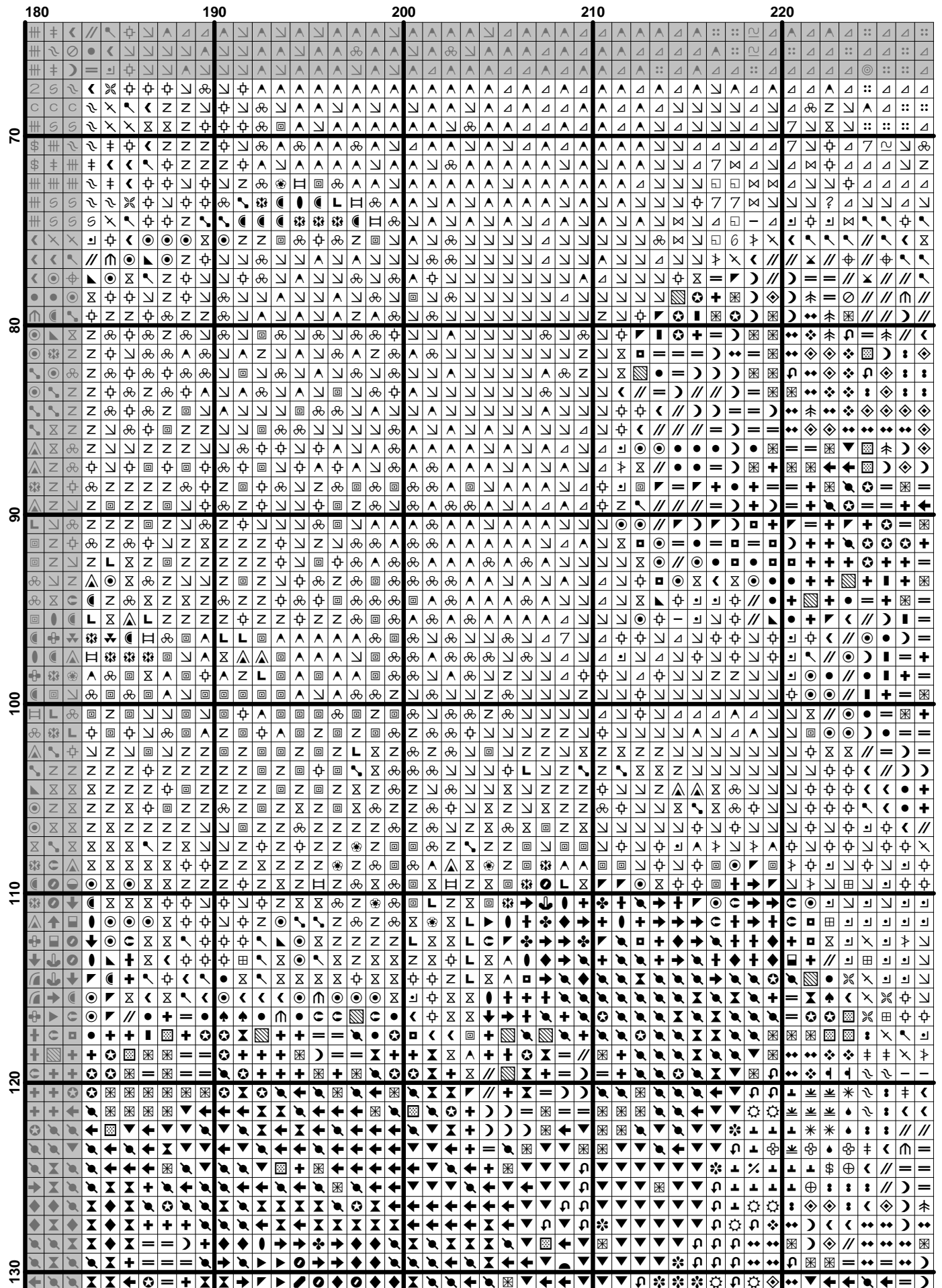
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	4	e	e	8
	e	8	e	8
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	v	v	v	3
		v	v	3
		v	3	3
10	v	v	3	e
	/	3	e	e
	/	3	3	e
	3	3	e	3
	3	v	e	3
	3	3	3	3
	v	v	3	3
	v	3	v	3
	v	v	3	3
20	v	v	3	3
		v	3	3
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	⊙	⊙	⊙	⊙
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	⊙	⊙	⊙	⊙
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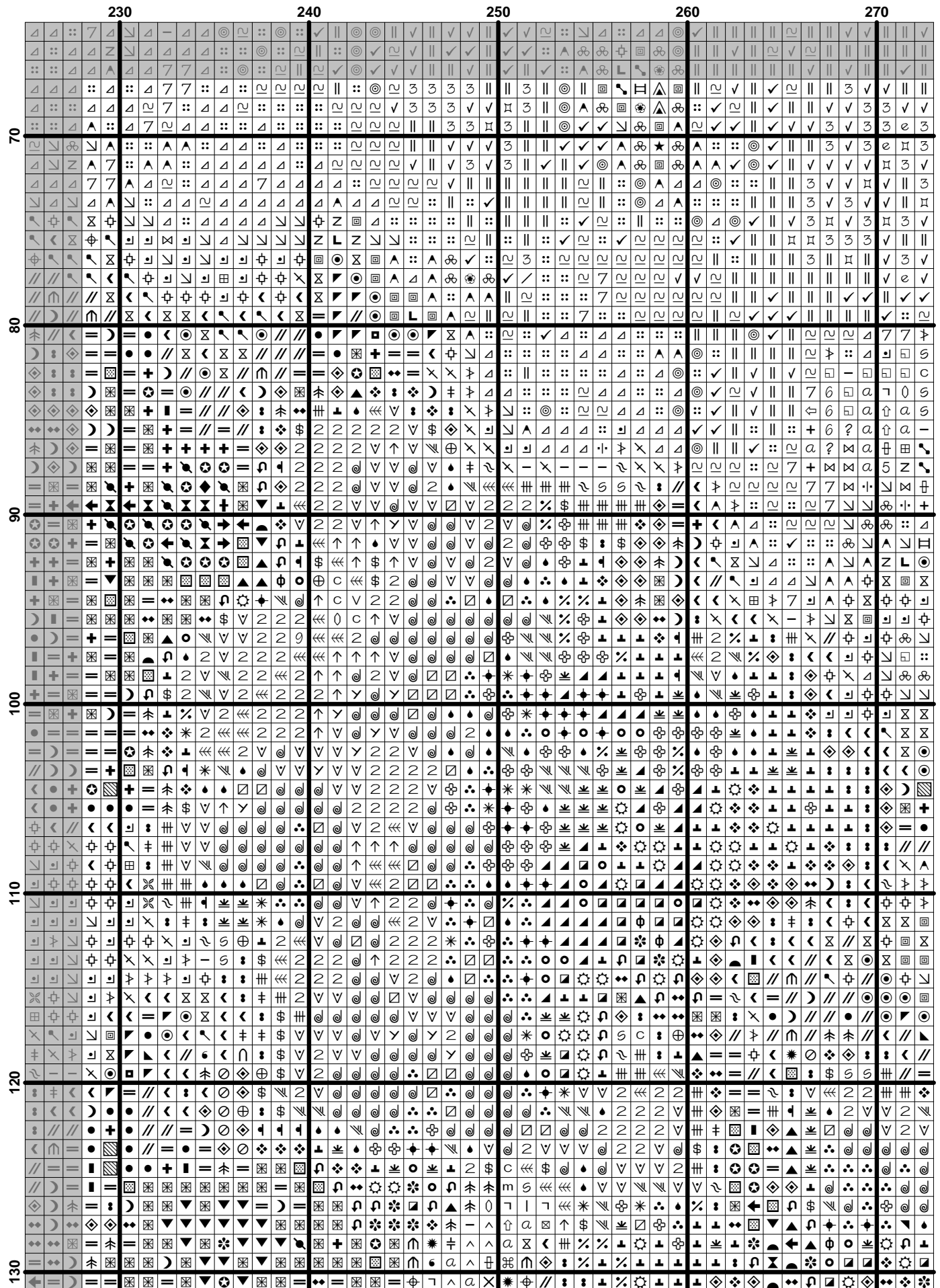


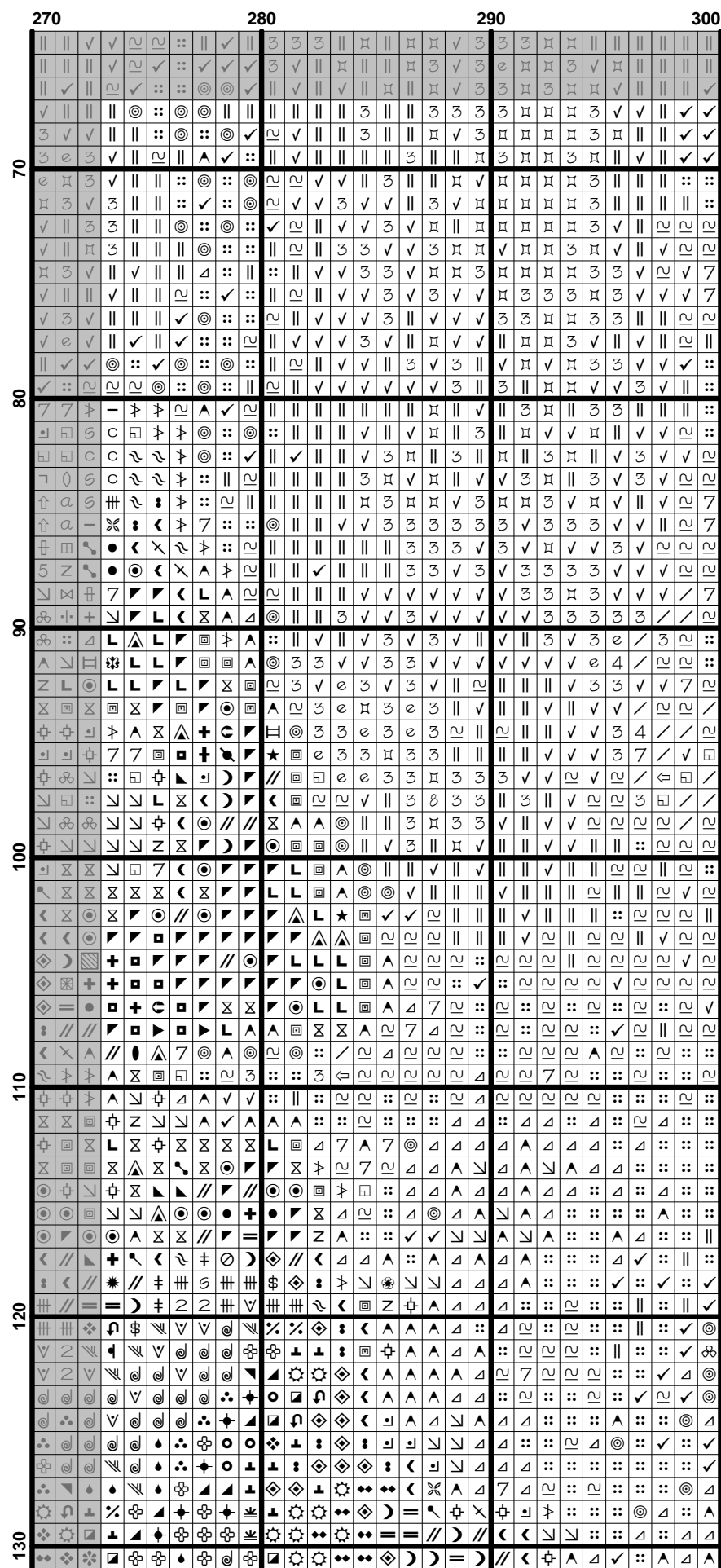


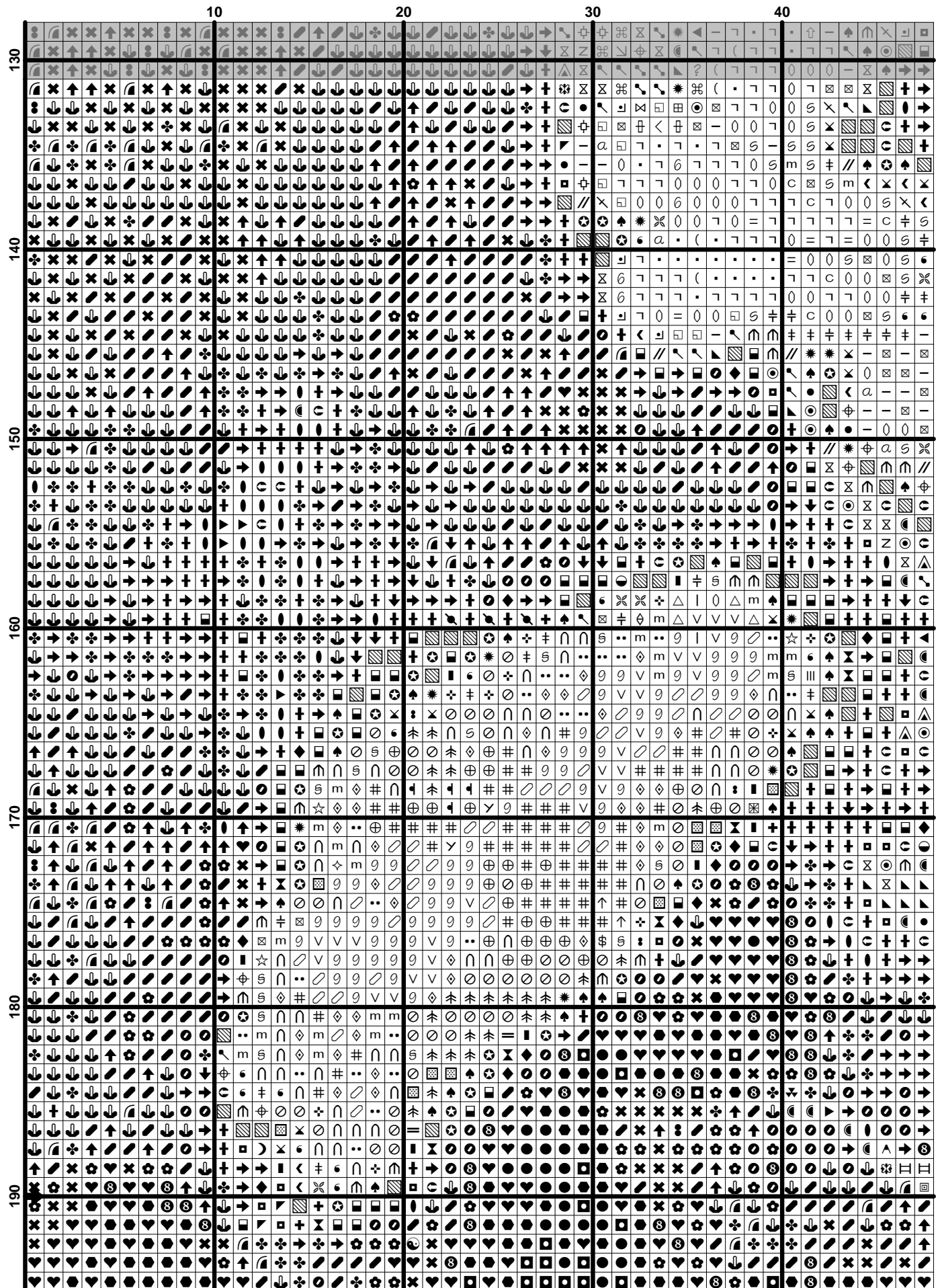
$$(17) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$











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