

1268 Welcome Footsteps



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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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Welcome Footsteps

Stitch Count	
Horizontal:	540
Vertical:	369

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:	98	38.57	67	26.35	86	33.75	59	23.06	77	30	53	20.5
Including Margins:	114	45	83	33	102	40	75	30	93	37	69	27
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	137	53.99	93	36.89	114	44.99	78	30.74	57	22.49	39	15.37
Including Margins:	153	60	109	43	130	51	94	37	73	29	55	22
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	54	21.59	37	14.75	52	20.76	36	14.18	50	19.99	34	13.66
Including Margins:	70	28	53	21	68	27	52	21	66	26	50	20
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	49	19.28	33	13.17	45	17.99	31	12.29	42	16.87	29	11.52
Including Margins:	65	26	49	20	61	24	47	19	58	23	45	18

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
	300	Mahogany-VY DK
	353	Peach
	355	Terra Cotta-DK
	356	Terra Cotta-MD
	370	Mustard-MD
	371	Mustard
	407	Desert Sand-DK
	435	Brown-VY LT
	437	Tan-LT
	445	Lemon-LT
	522	Fern Green
	523	Fern Green-LT
	524	Fern Green-VY LT
	535	Ash Gray-VY LT
	543	Beige Brown-UL VY LT
	611	Drab Brown
	612	Drab Brown-LT
	613	Drab Brown-VY LT
	642	Beige Gray-DK
	644	Beige Gray-MD
	645	Beaver Gray-VY DK
	677	Old Gold-VY LT
	703	Chartreuse
	704	Chartreuse-BRT
	712	Cream
	725	Topaz
	727	Topaz-VY LT
	730	Olive Green-VY DK
	732	Olive Green
	733	Olive Green-MD
	734	Olive Green-LT
	738	Tan-VY LT
	739	Tan-UL VY LT
	743	Yellow-MD
	744	Yellow-Pale
	746	Off White
	754	Peach-LT
	762	Pearl Gray-VY LT
	782	Topaz-DK
	831	Golden Olive-MD
	832	Golden Olive
	833	Golden Olive-LT
	834	Golden Olive-VY LT
	839	Beige Brown-DK
	844	Beaver Brown-UL DK
	905	Parrot Green-DK

	920	Copper-MD
	928	Gray Green-VY LT
	937	Avocado Green-MD
	938	Coffee Brown-UL DK
	975	Golden Brown-DK
	976	Golden Brown-MD
	988	Forest Green-MD
	3021	Brown Gray-VY DK
	3022	Brown Gray-MD
	3024	Brown Gray-VY LT
	3045	Yellow Beige-DK
	3046	Yellow Beige-MD
	3052	Green Gray-MD
	3053	Green Gray
	3078	Golden Yellow-VY LT
	3328	Salmon-DK
	3341	Apricot
	3346	Hunter Green
	3362	Pine Green-DK
	3363	Pine Green-MD
	3371	Black Brown
	3685	Mauve-DK
	3721	Shell Pink-DK
	3722	Shell Pink-MD
	3753	Antique Blue-UL VY LT
	3756	Baby Blue-UL VY LT
	3772	Desert Sand-VY DK
	3778	Terra Cotta-LT
	3781	Mocha Brown-DK
	3787	Brown Gray-DK
	3799	Pewter Gray-VY DK
	3813	Blue Green-LT
	3816	Celadon Green-MD
	3820	Straw-DK
	3822	Straw-LT
	3823	Yellow-UL Pale
	3828	Hazelnut Brown
	3829	Old Gold-VY DK
	3830	Terra Cotta-MD
	3852	Straw-VY DK
	3854	Autumn Gold-MD
	3855	Autumn Gold-LT
	3860	Cocoa
	3864	Mocha Beige-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
†	839	Beige Brown-DK	3787	Brown Gray-DK
◀	3362	Pine Green-DK	3363	Pine Green-MD
☾	611	Drab Brown	3862	Mocha Beige-DK
⬆	645	Beaver Gray-VY DK	3816	Celadon Green-MD
◼	839	Beige Brown-DK	844	Beaver Brown-UL DK
«	3756	Baby Blue-UL VY LT	3865	Winter White
⬆	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
^	712	Cream	762	Pearl Gray-VY LT
☺	833	Golden Olive-LT	680	Old Gold-DK
◻	782	Topaz-DK	976	Golden Brown-MD
▷	743	Yellow-MD	744	Yellow-Pale
•	3820	Straw-DK	3852	Straw-VY DK
⊗	3346	Hunter Green	3362	Pine Green-DK
◊	3022	Brown Gray-MD	3772	Desert Sand-VY DK
†	3346	Hunter Green	988	Forest Green-MD
♠	3862	Mocha Beige-DK	3787	Brown Gray-DK
♥	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
•	744	Yellow-Pale	3855	Autumn Gold-LT
m	977	Golden Brown-LT	3854	Autumn Gold-MD
◻	839	Beige Brown-DK	3862	Mocha Beige-DK
◉	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
+	834	Golden Olive-VY LT	3822	Straw-LT
✓	371	Mustard	734	Olive Green-LT
⊞	977	Golden Brown-LT	976	Golden Brown-MD
•	611	Drab Brown	632	Desert Sand-UL VY DK
⊗	370	Mustard-MD	611	Drab Brown
◀	371	Mustard	611	Drab Brown
⌘	435	Brown-VY LT	3828	Hazelnut Brown
✓	644	Beige Gray-MD	524	Fern Green-VY LT
♣	413	Pewter Gray-DK	839	Beige Brown-DK
⬆	413	Pewter Gray-DK	844	Beaver Brown-UL DK
◊	832	Golden Olive	3852	Straw-VY DK
•	782	Topaz-DK	832	Golden Olive
#	834	Golden Olive-VY LT	3829	Old Gold-VY DK
::	833	Golden Olive-LT	3854	Autumn Gold-MD
∇	832	Golden Olive	834	Golden Olive-VY LT
◊	370	Mustard-MD	3862	Mocha Beige-DK
▲	611	Drab Brown	645	Beaver Gray-VY DK
	3347	Yellow Green-MD	834	Golden Olive-VY LT
*	611	Drab Brown	3787	Brown Gray-DK
✂	420	Hazelnut Brown-DK	832	Golden Olive
◻	371	Mustard	3864	Mocha Beige-LT
◼	3860	Cocoa	3862	Mocha Beige-DK
★	3052	Green Gray-MD	3862	Mocha Beige-DK
∩	733	Olive Green-MD	3347	Yellow Green-MD
◻	743	Yellow-MD	3852	Straw-VY DK
⬆	732	Olive Green	3787	Brown Gray-DK
✱	3346	Hunter Green	3021	Brown Gray-VY DK
✱	831	Golden Olive-MD	733	Olive Green-MD
✱	3363	Pine Green-MD	645	Beaver Gray-VY DK
▼	3052	Green Gray-MD	3787	Brown Gray-DK
✱	937	Avocado Green-MD	3799	Pewter Gray-VY DK
◊	734	Olive Green-LT	3053	Green Gray

□	3823	Yellow-UL Pale	543	Beige Brown-UL VY LT
✱	3346	Hunter Green	3347	Yellow Green-MD
↖	642	Beige Gray-DK	3052	Green Gray-MD
■	3371	Black Brown	3799	Pewter Gray-VY DK
⊗	730	Olive Green-VY DK	975	Golden Brown-DK
⊗	975	Golden Brown-DK	976	Golden Brown-MD
✂	3852	Straw-VY DK	976	Golden Brown-MD
L	976	Golden Brown-MD	3830	Terra Cotta-MD
▼	782	Topaz-DK	920	Copper-MD
⊗	831	Golden Olive-MD	834	Golden Olive-VY LT
:	445	Lemon-LT	3046	Yellow Beige-MD
✱	730	Olive Green-VY DK	3052	Green Gray-MD
⋄	920	Copper-MD	3852	Straw-VY DK
X	976	Golden Brown-MD	680	Old Gold-DK
✦	370	Mustard-MD	730	Olive Green-VY DK
■	730	Olive Green-VY DK	831	Golden Olive-MD
≡	907	Parrot Green-LT	988	Forest Green-MD
↔	3854	Autumn Gold-MD	743	Yellow-MD
⊕	3341	Apricot	744	Yellow-Pale
?	834	Golden Olive-VY LT	437	Tan-LT
◇	444	Lemon-DK	3854	Autumn Gold-MD
◇	976	Golden Brown-MD	3854	Autumn Gold-MD
	3852	Straw-VY DK	3854	Autumn Gold-MD
∅	744	Yellow-Pale	3854	Autumn Gold-MD
⋄	975	Golden Brown-DK	3828	Hazelnut Brown
H	3346	Hunter Green	370	Mustard-MD
✕	732	Olive Green	832	Golden Olive
H	3820	Straw-DK	833	Golden Olive-LT
↓	839	Beige Brown-DK	730	Olive Green-VY DK
☪	611	Drab Brown	839	Beige Brown-DK
⊕	730	Olive Green-VY DK	3787	Brown Gray-DK
○	907	Parrot Green-LT	3852	Straw-VY DK
↘	907	Parrot Green-LT	832	Golden Olive
≈	3852	Straw-VY DK	444	Lemon-DK
≡	907	Parrot Green-LT	444	Lemon-DK
\$	832	Golden Olive	733	Olive Green-MD
✱	975	Golden Brown-DK	3829	Old Gold-VY DK
✱	832	Golden Olive	975	Golden Brown-DK
⊕	832	Golden Olive	3829	Old Gold-VY DK
♡	3855	Autumn Gold-LT	739	Tan-UL VY LT
+	831	Golden Olive-MD	975	Golden Brown-DK
☪	730	Olive Green-VY DK	938	Coffee Brown-UL DK
Ⓢ	939	Navy Blue-VY DK	730	Olive Green-VY DK
e	543	Beige Brown-UL VY LT	3864	Mocha Beige-LT
/	739	Tan-UL VY LT	3864	Mocha Beige-LT
☪	3781	Mocha Brown-DK	938	Coffee Brown-UL DK
◆	3685	Mauve-DK	3021	Brown Gray-VY DK
☪	221	Shell Pink-VY DK	300	Mahogany-VY DK
c	3854	Autumn Gold-MD	307	Lemon
∅	734	Olive Green-LT	3046	Yellow Beige-MD
>	353	Peach	677	Old Gold-VY LT
a	3864	Mocha Beige-LT	3855	Autumn Gold-LT
✂	734	Olive Green-LT	523	Fern Green-LT
☆	523	Fern Green-LT	3046	Yellow Beige-MD

This table specifies how much thread of each color is required to stitch this pattern. It is good to know that one complete DMC skein contains 313 inches (795 cm) thread.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
221	Shell Pink-VY DK	14	5	13	5	12	4
300	Mahogany-VY DK	111	43	105	41	95	37
307	Lemon	25	9	23	9	21	8
353	Peach	35	13	33	12	30	11
355	Terra Cotta-DK	29	11	27	10	24	9
356	Terra Cotta-MD	27	10	26	10	23	9
370	Mustard-MD	1097	431	1045	411	940	370
371	Mustard	791	311	754	296	678	266
407	Desert Sand-DK	39	15	37	14	34	13
413	Pewter Gray-DK	389	153	370	145	333	131
420	Hazelnut Brown-DK	133	52	127	50	114	44
435	Brown-VY LT	165	64	157	61	141	55
437	Tan-LT	278	109	265	104	238	93
444	Lemon-DK	137	53	131	51	118	46
445	Lemon-LT	244	96	232	91	209	82
522	Fern Green	108	42	102	40	92	36
523	Fern Green-LT	615	242	586	230	527	207
524	Fern Green-VY LT	244	96	232	91	209	82
535	Ash Gray-VY LT	403	158	383	150	345	135
543	Beige Brown-UL VY LT	719	283	685	269	617	242
611	Drab Brown	1438	566	1370	539	1233	485
612	Drab Brown-LT	269	105	256	100	230	90
613	Drab Brown-VY LT	541	212	515	202	463	182
632	Desert Sand-UL VY DK	193	75	184	72	165	64
642	Beige Gray-DK	355	139	338	133	305	120
644	Beige Gray-MD	239	94	228	89	205	80
645	Beaver Gray-VY DK	519	204	494	194	445	175
677	Old Gold-VY LT	264	103	251	98	226	88
680	Old Gold-DK	104	40	99	38	89	35
703	Chartreuse	18	7	17	6	15	5
704	Chartreuse-BRT	47	18	44	17	40	15
712	Cream	739	290	703	276	633	249
725	Topaz	79	31	75	29	67	26
727	Topaz-VY LT	69	27	66	25	59	23
730	Olive Green-VY DK	3496	1376	3329	1310	2996	1179
732	Olive Green	1292	508	1231	484	1108	436
733	Olive Green-MD	542	213	516	203	465	183
734	Olive Green-LT	1075	423	1024	403	921	362
738	Tan-VY LT	219	86	208	81	187	73
739	Tan-UL VY LT	689	271	656	258	591	232
743	Yellow-MD	261	102	249	98	224	88
744	Yellow-Pale	214	84	204	80	184	72
746	Off White	427	168	407	160	366	144
754	Peach-LT	20	7	19	7	17	6
762	Pearl Gray-VY LT	244	96	232	91	209	82
782	Topaz-DK	155	61	147	57	133	52
831	Golden Olive-MD	1176	462	1120	440	1008	396
832	Golden Olive	1651	650	1573	619	1415	557
833	Golden Olive-LT	582	229	554	218	498	196
834	Golden Olive-VY LT	1058	416	1008	396	907	357
839	Beige Brown-DK	2203	867	2098	825	1888	743
844	Beaver Brown-UL DK	1717	675	1636	644	1472	579
905	Parrot Green-DK	26	10	25	9	22	8

907	Parrot Green-LT	146	57	139	54	125	49
920	Copper-MD	37	14	36	14	32	12
928	Gray Green-VY LT	66	25	62	24	56	22
937	Avocado Green-MD	267	105	255	100	229	90
938	Coffee Brown-UL DK	2398	944	2283	898	2055	809
939	Navy Blue-VY DK	814	320	775	305	698	274
975	Golden Brown-DK	541	212	516	203	464	182
976	Golden Brown-MD	175	68	167	65	150	59
977	Golden Brown-LT	36	14	34	13	31	12
988	Forest Green-MD	75	29	72	28	65	25
3021	Brown Gray-VY DK	2590	1019	2467	971	2220	874
3022	Brown Gray-MD	276	108	263	103	236	92
3024	Brown Gray-VY LT	298	117	284	111	256	100
3045	Yellow Beige-DK	281	110	267	105	241	94
3046	Yellow Beige-MD	942	370	897	353	808	318
3052	Green Gray-MD	832	327	792	311	713	280
3053	Green Gray	381	150	363	142	327	128
3078	Golden Yellow-VY LT	154	60	147	57	132	51
3328	Salmon-DK	5	1	5	1	5	1
3341	Apricot	29	11	27	10	25	9
3346	Hunter Green	423	166	403	158	362	142
3347	Yellow Green-MD	205	80	195	76	176	69
3362	Pine Green-DK	271	106	258	101	232	91
3363	Pine Green-MD	230	90	219	86	197	77
3371	Black Brown	1799	708	1714	674	1542	607
3685	Mauve-DK	68	26	65	25	58	22
3721	Shell Pink-DK	33	12	31	12	28	11
3722	Shell Pink-MD	12	4	11	4	10	3
3753	Antique Blue-UL VY LT	40	15	38	14	35	13
3756	Baby Blue-UL VY LT	391	153	372	146	335	131
3772	Desert Sand-VY DK	288	113	274	107	247	97
3778	Terra Cotta-LT	25	9	23	9	21	8
3781	Mocha Brown-DK	1058	416	1008	396	907	357
3787	Brown Gray-DK	2314	911	2204	867	1983	780
3799	Pewter Gray-VY DK	3315	1305	3157	1242	2841	1118
3813	Blue Green-LT	31	12	29	11	26	10
3816	Celadon Green-MD	59	23	56	22	50	19
3820	Straw-DK	459	180	437	172	393	154
3822	Straw-LT	285	112	272	107	244	96
3823	Yellow-UL Pale	542	213	516	203	464	182
3828	Hazelnut Brown	413	162	393	154	354	139
3829	Old Gold-VY DK	318	125	303	119	272	107
3830	Terra Cotta-MD	35	13	34	13	30	11
3852	Straw-VY DK	925	364	881	346	793	312
3854	Autumn Gold-MD	352	138	335	131	302	118
3855	Autumn Gold-LT	394	155	375	147	337	132
3860	Cocoa	250	98	238	93	214	84
3862	Mocha Beige-DK	1103	434	1051	413	946	372
3864	Mocha Beige-LT	556	218	530	208	477	187
3865	Winter White	1190	468	1134	446	1020	401
3866	Mocha Brown-UL VY LT	486	191	463	182	417	164
Ecru	Ecru	445	175	423	166	381	150

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
221	Shell Pink-VY DK	22	7	18	6	9	3
300	Mahogany-VY DK	171	67	143	56	71	28
307	Lemon	38	14	32	12	16	6
353	Peach	54	20	45	17	23	8
355	Terra Cotta-DK	43	16	36	14	18	7
356	Terra Cotta-MD	41	16	35	14	17	7
370	Mustard-MD	1692	666	1410	555	705	278
371	Mustard	1220	479	1017	399	509	200
407	Desert Sand-DK	61	23	51	20	26	10
413	Pewter Gray-DK	599	236	500	197	250	98
420	Hazelnut Brown-DK	205	79	171	66	86	33
435	Brown-VY LT	254	99	212	83	106	41
437	Tan-LT	428	167	357	140	179	70
444	Lemon-DK	212	83	177	69	89	35
445	Lemon-LT	376	148	314	123	157	62
522	Fern Green	166	65	138	54	69	27
523	Fern Green-LT	949	373	791	311	395	155
524	Fern Green-VY LT	376	148	314	123	157	62
535	Ash Gray-VY LT	621	243	518	203	259	101
543	Beige Brown-UL VY LT	1111	436	926	363	463	182
611	Drab Brown	2219	873	1850	728	925	364
612	Drab Brown-LT	414	162	345	135	173	68
613	Drab Brown-VY LT	833	328	695	273	347	137
632	Desert Sand-UL VY DK	297	115	248	96	124	48
642	Beige Gray-DK	549	216	458	180	229	90
644	Beige Gray-MD	369	144	308	120	154	60
645	Beaver Gray-VY DK	801	315	668	263	334	131
677	Old Gold-VY LT	407	158	339	132	170	66
680	Old Gold-DK	160	63	134	53	67	26
703	Chartreuse	27	9	23	8	11	4
704	Chartreuse-BRT	72	27	60	23	30	11
712	Cream	1139	448	950	374	475	187
725	Topaz	121	47	101	39	50	20
727	Topaz-VY LT	106	41	89	35	44	17
730	Olive Green-VY DK	5393	2122	4494	1769	2247	884
732	Olive Green	1994	785	1662	654	831	327
733	Olive Green-MD	837	329	698	275	349	137
734	Olive Green-LT	1658	652	1382	543	691	272
738	Tan-VY LT	337	131	281	110	140	55
739	Tan-UL VY LT	1064	418	887	348	443	174
743	Yellow-MD	403	158	336	132	168	66
744	Yellow-Pale	331	130	276	108	138	54
746	Off White	659	259	549	216	275	108
754	Peach-LT	31	11	26	9	13	5
762	Pearl Gray-VY LT	376	148	314	123	157	62
782	Topaz-DK	239	94	200	78	100	39
831	Golden Olive-MD	1814	713	1512	594	756	297
832	Golden Olive	2547	1003	2123	836	1061	418
833	Golden Olive-LT	896	353	747	294	374	147
834	Golden Olive-VY LT	1633	643	1361	536	680	268
839	Beige Brown-DK	3398	1337	2832	1115	1416	557
844	Beaver Brown-UL DK	2650	1042	2208	869	1104	434
905	Parrot Green-DK	40	14	33	12	17	6

907	Parrot Green-LT	225	88	188	74	94	37
920	Copper-MD	58	22	48	18	24	9
928	Gray Green-VY LT	101	40	84	33	42	17
937	Avocado Green-MD	412	162	344	135	172	68
938	Coffee Brown-UL DK	3699	1456	3083	1214	1541	607
939	Navy Blue-VY DK	1256	493	1047	411	524	206
975	Golden Brown-DK	835	328	696	273	348	137
976	Golden Brown-MD	270	106	225	89	113	44
977	Golden Brown-LT	56	22	47	18	23	9
988	Forest Green-MD	117	45	98	38	49	19
3021	Brown Gray-VY DK	3996	1573	3330	1311	1665	656
3022	Brown Gray-MD	425	166	354	138	177	69
3024	Brown Gray-VY LT	461	180	384	150	192	75
3045	Yellow Beige-DK	434	169	362	141	181	71
3046	Yellow Beige-MD	1454	572	1212	477	606	239
3052	Green Gray-MD	1283	504	1070	420	535	210
3053	Green Gray	589	230	491	192	245	96
3078	Golden Yellow-VY LT	238	92	198	77	99	38
3328	Salmon-DK	9	2	8	2	4	1
3341	Apricot	45	16	38	14	19	7
3346	Hunter Green	652	256	543	213	272	107
3347	Yellow Green-MD	317	124	264	104	132	52
3362	Pine Green-DK	418	164	348	137	174	68
3363	Pine Green-MD	355	139	296	116	148	58
3371	Black Brown	2776	1093	2313	911	1157	455
3685	Mauve-DK	104	40	87	33	44	17
3721	Shell Pink-DK	50	20	42	17	21	8
3722	Shell Pink-MD	18	5	15	5	8	2
3753	Antique Blue-UL VY LT	63	23	53	20	26	10
3756	Baby Blue-UL VY LT	603	236	503	197	251	98
3772	Desert Sand-VY DK	445	175	371	146	185	73
3778	Terra Cotta-LT	38	14	32	12	16	6
3781	Mocha Brown-DK	1633	643	1361	536	680	268
3787	Brown Gray-DK	3569	1404	2975	1170	1487	585
3799	Pewter Gray-VY DK	5114	2012	4262	1677	2131	839
3813	Blue Green-LT	47	18	39	15	20	8
3816	Celadon Green-MD	90	34	75	29	38	14
3820	Straw-DK	707	277	590	231	295	116
3822	Straw-LT	439	173	366	144	183	72
3823	Yellow-UL Pale	835	328	696	273	348	137
3828	Hazelnut Brown	637	250	531	209	266	104
3829	Old Gold-VY DK	490	193	408	161	204	80
3830	Terra Cotta-MD	54	20	45	17	23	8
3852	Straw-VY DK	1427	562	1190	468	595	234
3854	Autumn Gold-MD	544	212	453	177	227	89
3855	Autumn Gold-LT	607	238	506	198	253	99
3860	Cocoa	385	151	321	126	161	63
3862	Mocha Beige-DK	1703	670	1419	558	710	279
3864	Mocha Beige-LT	859	337	716	281	358	140
3865	Winter White	1836	722	1530	602	765	301
3866	Mocha Brown-UL VY LT	751	295	626	246	313	123
Ecru	Ecru	686	270	572	225	286	113

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	9	3	8	3	8	3
300	Mahogany-VY DK	68	27	66	26	63	25
307	Lemon	15	6	15	6	14	5
353	Peach	22	8	21	8	20	7
355	Terra Cotta-DK	17	6	17	6	16	6
356	Terra Cotta-MD	17	6	16	6	15	6
370	Mustard-MD	677	266	651	256	627	247
371	Mustard	488	192	469	184	452	177
407	Desert Sand-DK	24	9	24	9	23	9
413	Pewter Gray-DK	240	94	231	91	222	87
420	Hazelnut Brown-DK	82	32	79	30	76	29
435	Brown-VY LT	102	40	98	38	94	37
437	Tan-LT	171	67	165	64	159	62
444	Lemon-DK	85	33	82	32	79	31
445	Lemon-LT	150	59	145	57	139	55
522	Fern Green	66	26	64	25	61	24
523	Fern Green-LT	379	149	365	143	351	138
524	Fern Green-VY LT	150	59	145	57	139	55
535	Ash Gray-VY LT	248	97	239	93	230	90
543	Beige Brown-UL VY LT	444	174	427	168	411	161
611	Drab Brown	888	349	854	336	822	323
612	Drab Brown-LT	166	65	159	62	153	60
613	Drab Brown-VY LT	333	131	321	126	309	121
632	Desert Sand-UL VY DK	119	46	114	44	110	43
642	Beige Gray-DK	220	86	211	83	203	80
644	Beige Gray-MD	148	58	142	55	137	53
645	Beaver Gray-VY DK	320	126	308	121	297	117
677	Old Gold-VY LT	163	63	156	61	151	59
680	Old Gold-DK	64	25	62	24	59	23
703	Chartreuse	11	4	10	3	10	3
704	Chartreuse-BRT	29	11	28	10	27	10
712	Cream	456	179	438	172	422	166
725	Topaz	48	19	46	18	45	17
727	Topaz-VY LT	42	17	41	16	39	15
730	Olive Green-VY DK	2157	849	2074	816	1997	786
732	Olive Green	798	314	767	302	739	291
733	Olive Green-MD	335	132	322	127	310	122
734	Olive Green-LT	663	261	638	251	614	241
738	Tan-VY LT	135	53	129	51	125	49
739	Tan-UL VY LT	426	167	409	161	394	155
743	Yellow-MD	161	63	155	61	149	59
744	Yellow-Pale	132	52	127	50	123	48
746	Off White	264	104	253	100	244	96
754	Peach-LT	12	4	12	4	11	4
762	Pearl Gray-VY LT	150	59	145	57	139	55
782	Topaz-DK	96	37	92	36	89	35
831	Golden Olive-MD	726	285	698	274	672	264
832	Golden Olive	1019	401	980	386	943	371
833	Golden Olive-LT	359	141	345	136	332	131
834	Golden Olive-VY LT	653	257	628	247	605	238
839	Beige Brown-DK	1359	535	1307	514	1259	495
844	Beaver Brown-UL DK	1060	417	1019	401	981	386
905	Parrot Green-DK	16	6	15	6	15	5

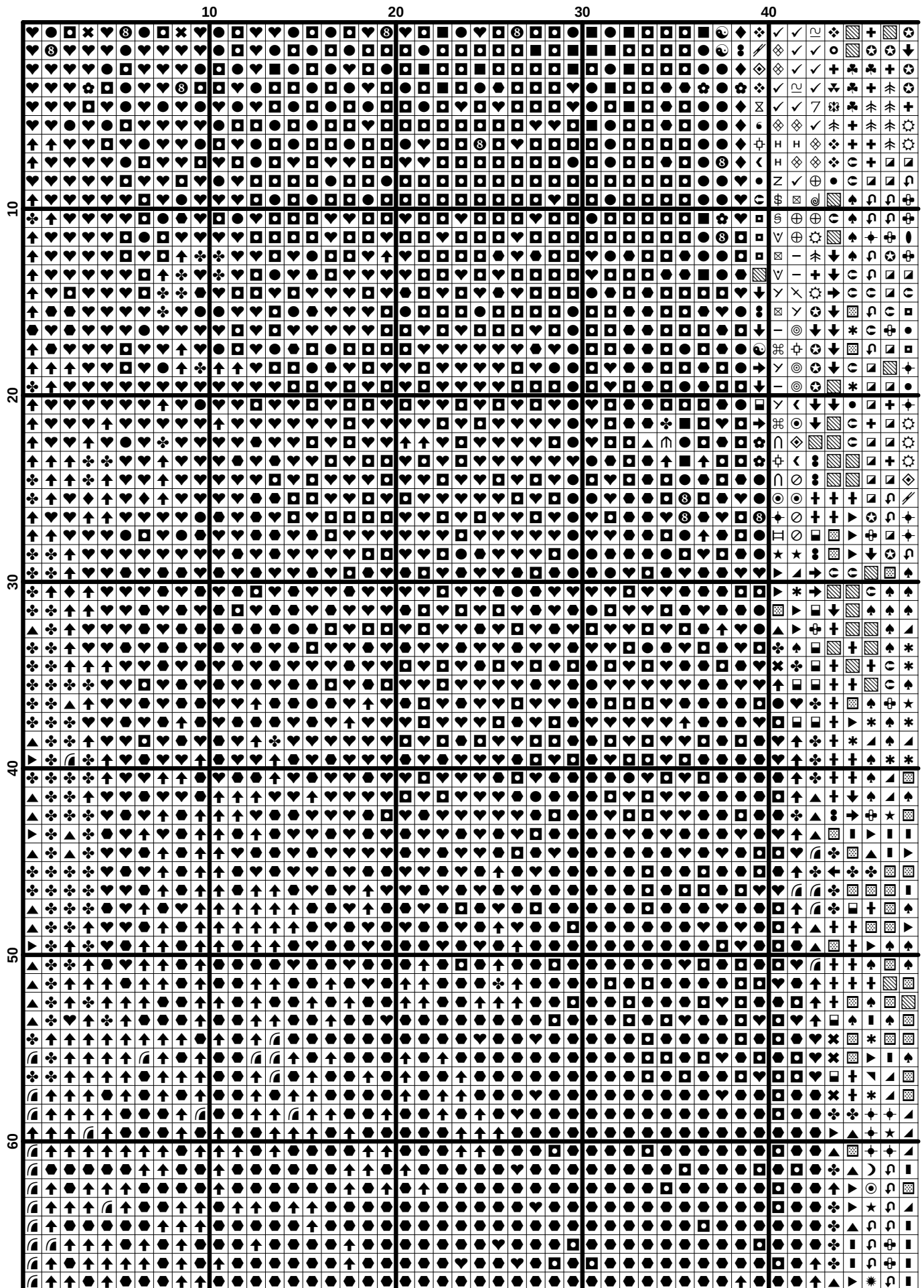
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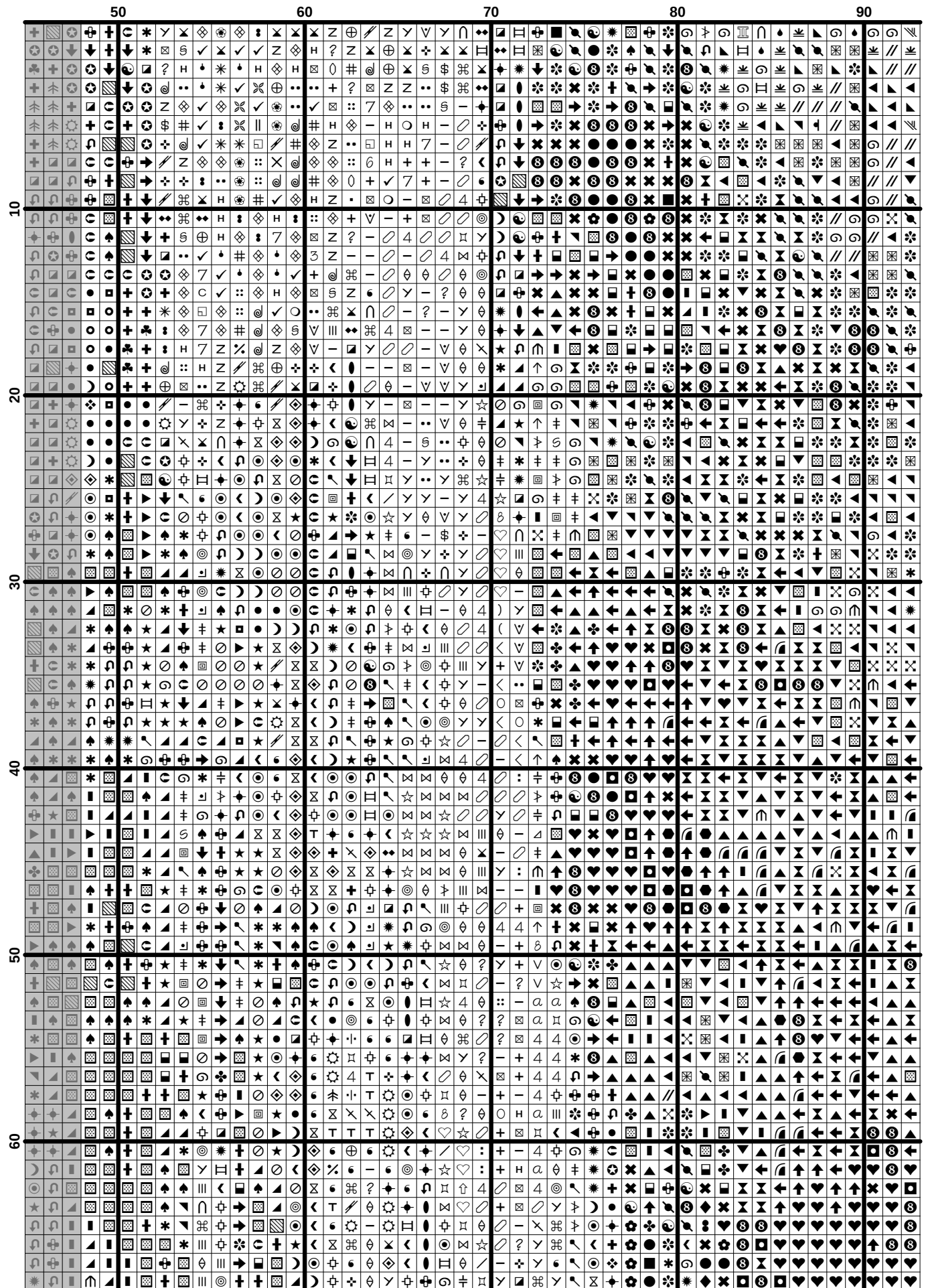
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907	Parrot Green-LT	90	35	87	34	83	33
920	Copper-MD	23	9	22	8	21	8
928	Gray Green-VY LT	40	16	39	15	37	15
937	Avocado Green-MD	165	65	159	62	153	60
938	Coffee Brown-UL DK	1480	582	1423	560	1370	539
939	Navy Blue-VY DK	503	197	483	190	465	183
975	Golden Brown-DK	334	131	321	126	309	121
976	Golden Brown-MD	108	42	104	41	100	39
977	Golden Brown-LT	22	9	21	8	21	8
988	Forest Green-MD	47	18	45	17	43	17
3021	Brown Gray-VY DK	1598	629	1537	605	1480	583
3022	Brown Gray-MD	170	66	163	64	157	61
3024	Brown Gray-VY LT	184	72	177	69	171	67
3045	Yellow Beige-DK	174	68	167	65	161	63
3046	Yellow Beige-MD	582	229	559	220	539	212
3052	Green Gray-MD	513	202	494	194	475	187
3053	Green Gray	235	92	226	89	218	85
3078	Golden Yellow-VY LT	95	37	91	35	88	34
3328	Salmon-DK	4	1	3	1	3	1
3341	Apricot	18	6	17	6	17	6
3346	Hunter Green	261	102	251	98	241	95
3347	Yellow Green-MD	127	50	122	48	117	46
3362	Pine Green-DK	167	66	161	63	155	61
3363	Pine Green-MD	142	55	136	53	131	51
3371	Black Brown	1110	437	1068	420	1028	405
3685	Mauve-DK	42	16	40	15	39	15
3721	Shell Pink-DK	20	8	19	8	19	7
3722	Shell Pink-MD	7	2	7	2	7	2
3753	Antique Blue-UL VY LT	25	9	24	9	23	9
3756	Baby Blue-UL VY LT	241	94	232	91	223	87
3772	Desert Sand-VY DK	178	70	171	67	165	65
3778	Terra Cotta-LT	15	6	15	6	14	5
3781	Mocha Brown-DK	653	257	628	247	605	238
3787	Brown Gray-DK	1428	562	1373	540	1322	520
3799	Pewter Gray-VY DK	2046	805	1967	774	1894	745
3813	Blue Green-LT	19	7	18	7	17	7
3816	Celadon Green-MD	36	14	35	13	33	13
3820	Straw-DK	283	111	272	107	262	103
3822	Straw-LT	176	69	169	66	163	64
3823	Yellow-UL Pale	334	131	321	126	309	121
3828	Hazelnut Brown	255	100	245	96	236	93
3829	Old Gold-VY DK	196	77	188	74	181	71
3830	Terra Cotta-MD	22	8	21	8	20	7
3852	Straw-VY DK	571	225	549	216	529	208
3854	Autumn Gold-MD	217	85	209	82	201	79
3855	Autumn Gold-LT	243	95	233	91	225	88
3860	Cocoa	154	60	148	58	143	56
3862	Mocha Beige-DK	681	268	655	258	631	248
3864	Mocha Beige-LT	343	135	330	129	318	125
3865	Winter White	734	289	706	278	680	267
3866	Mocha Brown-UL VY LT	300	118	289	114	278	109
Ecru	Ecru	274	108	264	104	254	100

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	8	3	7	2	7	2
300	Mahogany-VY DK	61	24	57	22	53	21
307	Lemon	14	5	13	5	12	5
353	Peach	19	7	18	7	17	6
355	Terra Cotta-DK	15	6	14	5	14	5
356	Terra Cotta-MD	15	6	14	5	13	5
370	Mustard-MD	604	238	564	222	529	208
371	Mustard	436	171	407	160	381	150
407	Desert Sand-DK	22	8	20	8	19	7
413	Pewter Gray-DK	214	84	200	79	187	74
420	Hazelnut Brown-DK	73	28	68	26	64	25
435	Brown-VY LT	91	35	85	33	79	31
437	Tan-LT	153	60	143	56	134	52
444	Lemon-DK	76	30	71	28	66	26
445	Lemon-LT	134	53	125	49	118	46
522	Fern Green	59	23	55	22	52	20
523	Fern Green-LT	339	133	316	124	296	116
524	Fern Green-VY LT	134	53	125	49	118	46
535	Ash Gray-VY LT	222	87	207	81	194	76
543	Beige Brown-UL VY LT	397	156	370	145	347	136
611	Drab Brown	793	312	740	291	694	273
612	Drab Brown-LT	148	58	138	54	129	51
613	Drab Brown-VY LT	298	117	278	109	260	102
632	Desert Sand-UL VY DK	106	41	99	38	93	36
642	Beige Gray-DK	196	77	183	72	172	68
644	Beige Gray-MD	132	51	123	48	115	45
645	Beaver Gray-VY DK	286	113	267	105	250	98
677	Old Gold-VY LT	145	57	136	53	127	50
680	Old Gold-DK	57	23	53	21	50	20
703	Chartreuse	10	3	9	3	8	3
704	Chartreuse-BRT	26	10	24	9	23	8
712	Cream	407	160	380	149	356	140
725	Topaz	43	17	40	16	38	15
727	Topaz-VY LT	38	15	35	14	33	13
730	Olive Green-VY DK	1926	758	1798	707	1685	663
732	Olive Green	712	280	665	262	623	245
733	Olive Green-MD	299	118	279	110	262	103
734	Olive Green-LT	592	233	553	217	518	204
738	Tan-VY LT	120	47	112	44	105	41
739	Tan-UL VY LT	380	149	355	139	332	131
743	Yellow-MD	144	57	134	53	126	50
744	Yellow-Pale	118	46	110	43	104	41
746	Off White	235	93	220	86	206	81
754	Peach-LT	11	4	10	4	10	3
762	Pearl Gray-VY LT	134	53	125	49	118	46
782	Topaz-DK	86	33	80	31	75	29
831	Golden Olive-MD	648	255	605	238	567	223
832	Golden Olive	910	358	849	334	796	313
833	Golden Olive-LT	320	126	299	118	280	110
834	Golden Olive-VY LT	583	230	544	214	510	201
839	Beige Brown-DK	1214	478	1133	446	1062	418
844	Beaver Brown-UL DK	946	372	883	347	828	326
905	Parrot Green-DK	14	5	13	5	12	5

907	Parrot Green-LT	80	32	75	29	70	28
920	Copper-MD	21	8	19	7	18	7
928	Gray Green-VY LT	36	14	34	13	32	12
937	Avocado Green-MD	147	58	137	54	129	51
938	Coffee Brown-UL DK	1321	520	1233	485	1156	455
939	Navy Blue-VY DK	449	176	419	164	393	154
975	Golden Brown-DK	298	117	278	109	261	102
976	Golden Brown-MD	96	38	90	35	84	33
977	Golden Brown-LT	20	8	19	7	17	7
988	Forest Green-MD	42	16	39	15	37	14
3021	Brown Gray-VY DK	1427	562	1332	524	1249	492
3022	Brown Gray-MD	152	59	142	55	133	52
3024	Brown Gray-VY LT	165	64	154	60	144	56
3045	Yellow Beige-DK	155	60	145	56	136	53
3046	Yellow Beige-MD	519	204	485	191	455	179
3052	Green Gray-MD	458	180	428	168	401	158
3053	Green Gray	210	82	196	77	184	72
3078	Golden Yellow-VY LT	85	33	79	31	74	29
3328	Salmon-DK	3	1	3	1	3	1
3341	Apricot	16	6	15	5	14	5
3346	Hunter Green	233	91	217	85	204	80
3347	Yellow Green-MD	113	44	106	41	99	39
3362	Pine Green-DK	149	59	139	55	131	51
3363	Pine Green-MD	127	50	118	46	111	43
3371	Black Brown	991	390	925	364	867	341
3685	Mauve-DK	37	14	35	13	33	12
3721	Shell Pink-DK	18	7	17	7	16	6
3722	Shell Pink-MD	6	2	6	2	6	2
3753	Antique Blue-UL VY LT	23	8	21	8	20	7
3756	Baby Blue-UL VY LT	215	84	201	79	188	74
3772	Desert Sand-VY DK	159	62	148	58	139	55
3778	Terra Cotta-LT	14	5	13	5	12	5
3781	Mocha Brown-DK	583	230	544	214	510	201
3787	Brown Gray-DK	1275	501	1190	468	1115	439
3799	Pewter Gray-VY DK	1826	719	1705	671	1598	629
3813	Blue Green-LT	17	6	16	6	15	6
3816	Celadon Green-MD	32	12	30	11	28	11
3820	Straw-DK	253	99	236	92	221	87
3822	Straw-LT	157	62	146	58	137	54
3823	Yellow-UL Pale	298	117	278	109	261	102
3828	Hazelnut Brown	228	89	212	83	199	78
3829	Old Gold-VY DK	175	69	163	64	153	60
3830	Terra Cotta-MD	19	7	18	7	17	6
3852	Straw-VY DK	510	201	476	187	446	176
3854	Autumn Gold-MD	194	76	181	71	170	66
3855	Autumn Gold-LT	217	85	202	79	190	74
3860	Cocoa	138	54	128	50	120	47
3862	Mocha Beige-DK	608	239	568	223	532	209
3864	Mocha Beige-LT	307	120	286	112	268	105
3865	Winter White	656	258	612	241	574	226
3866	Mocha Brown-UL VY LT	268	105	250	98	235	92
Ecru	Ecru	245	96	229	90	214	84

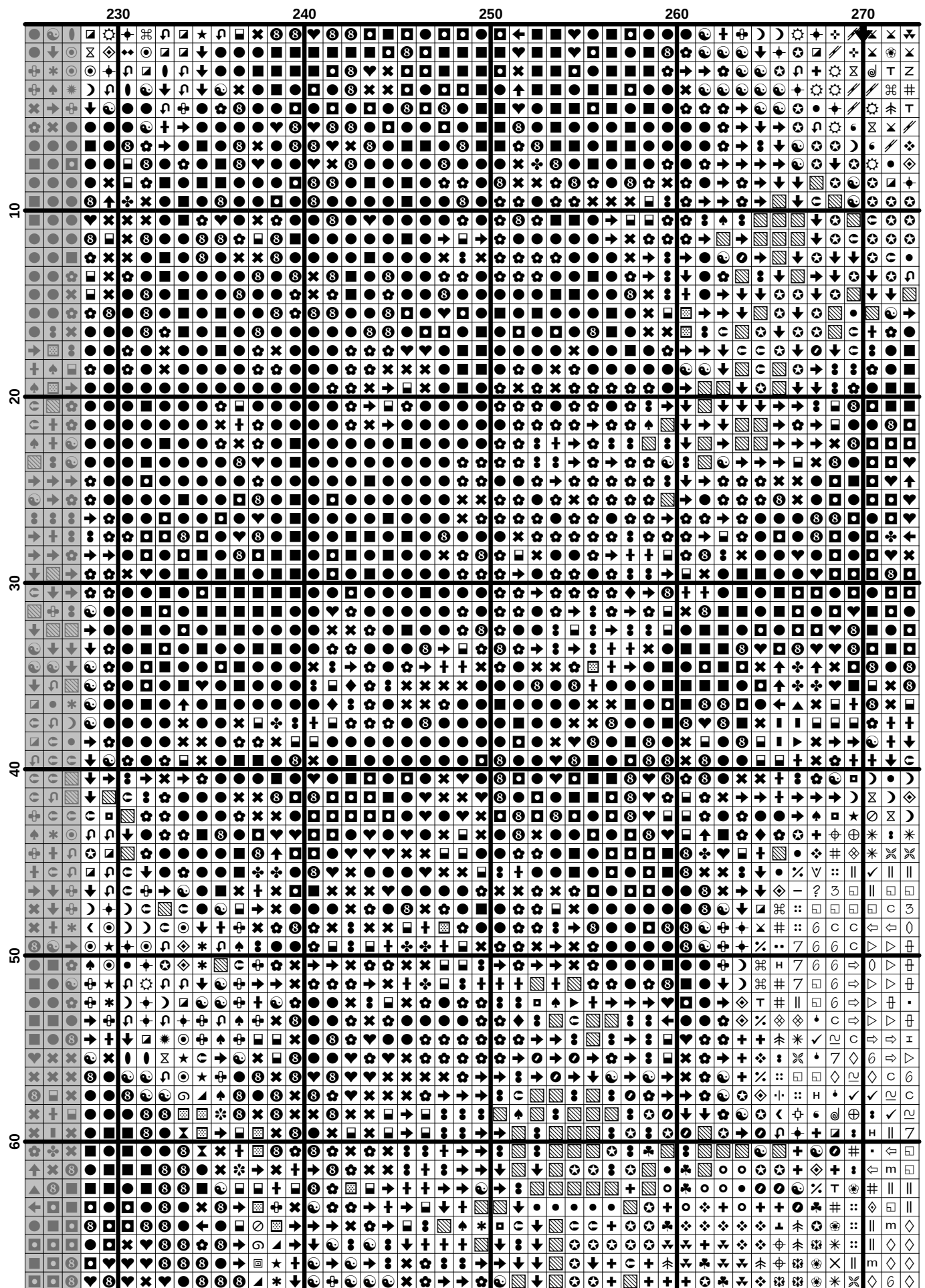


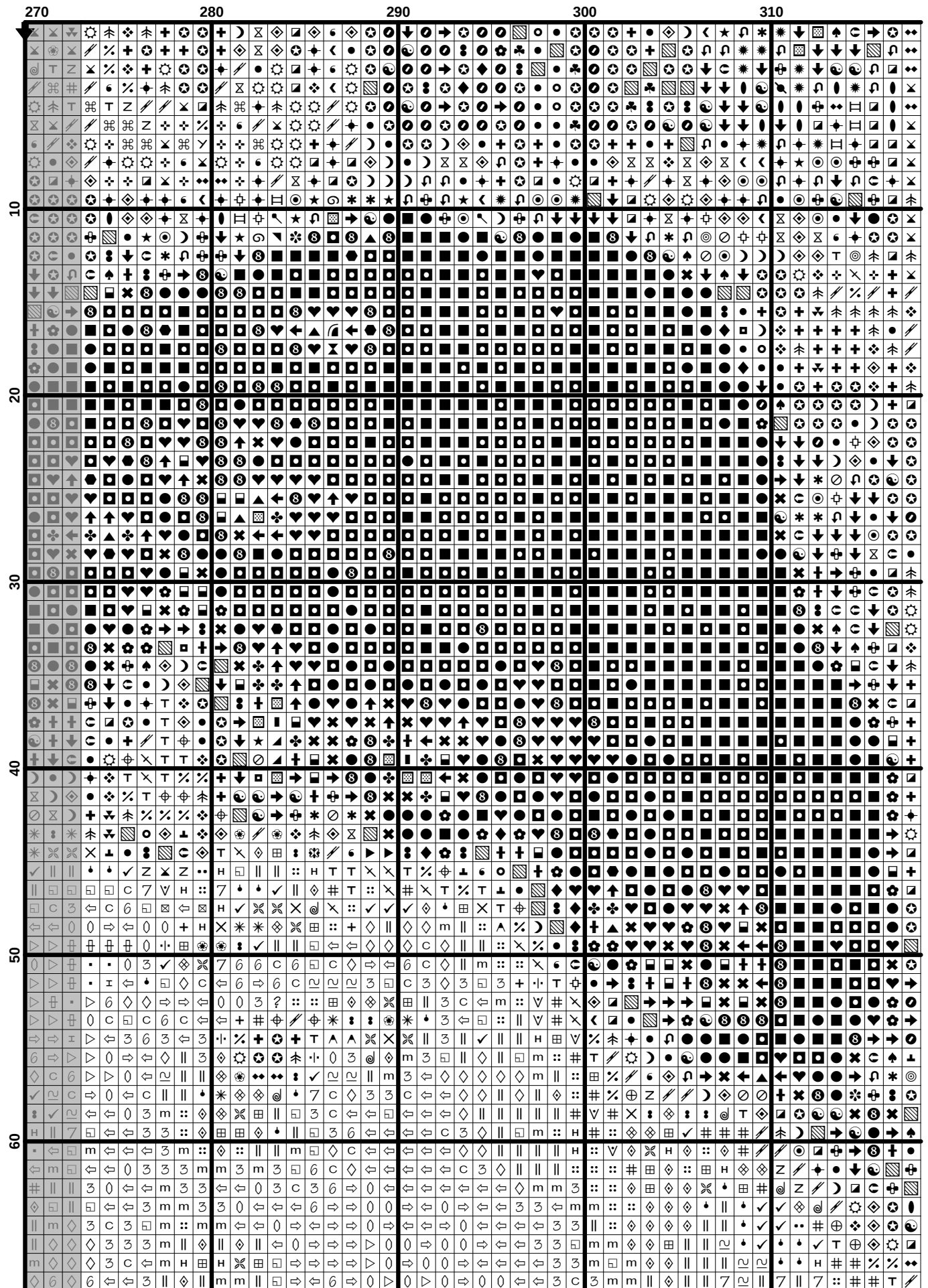


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20					
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40					
50					
60					

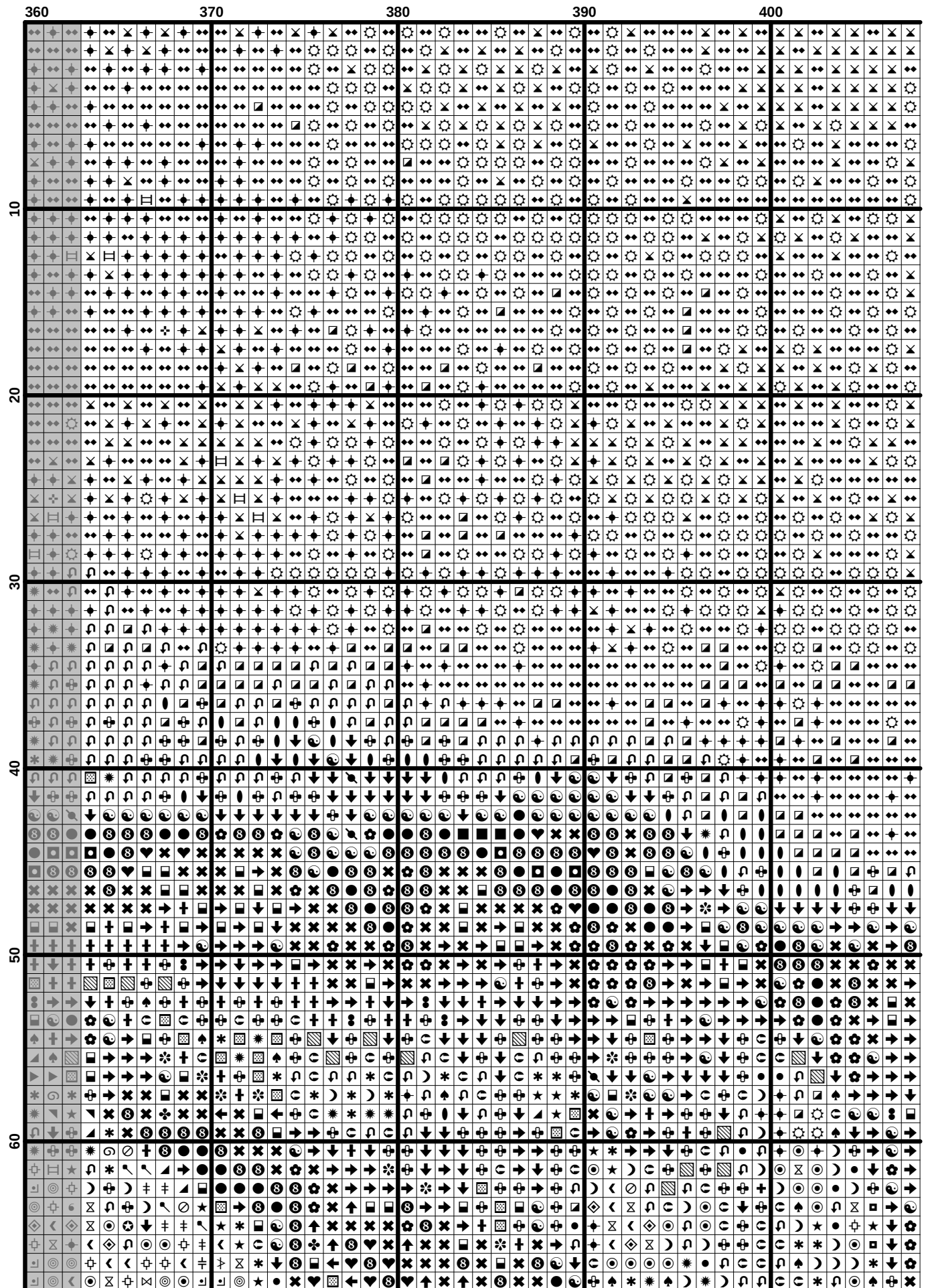
$$(16) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (17)$$

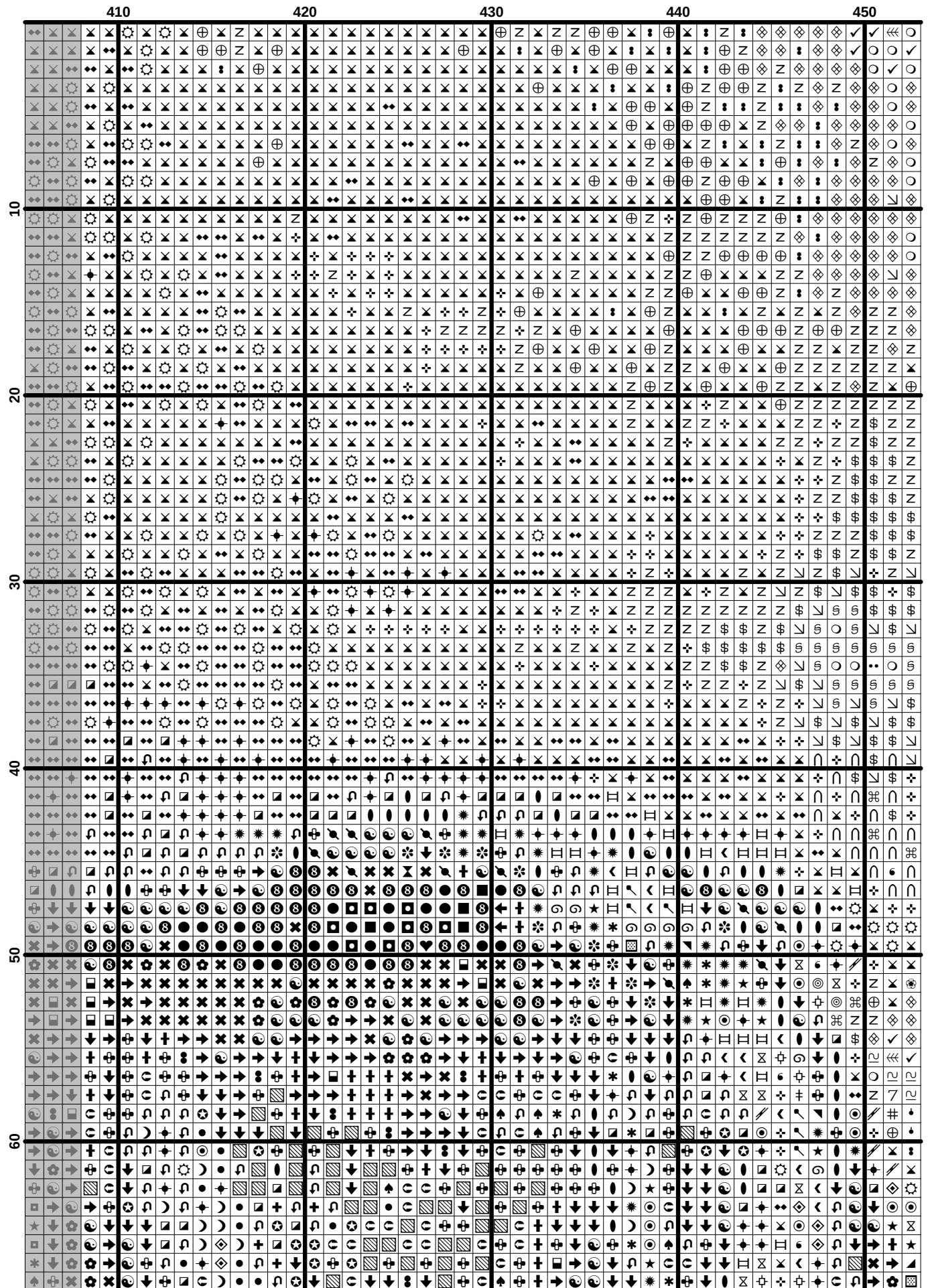
$$(17) \quad \mathcal{L}(\mathcal{A}) \subseteq \mathcal{L}(\mathcal{B}) \iff \mathcal{A} \subseteq \mathcal{B} \quad (18)$$





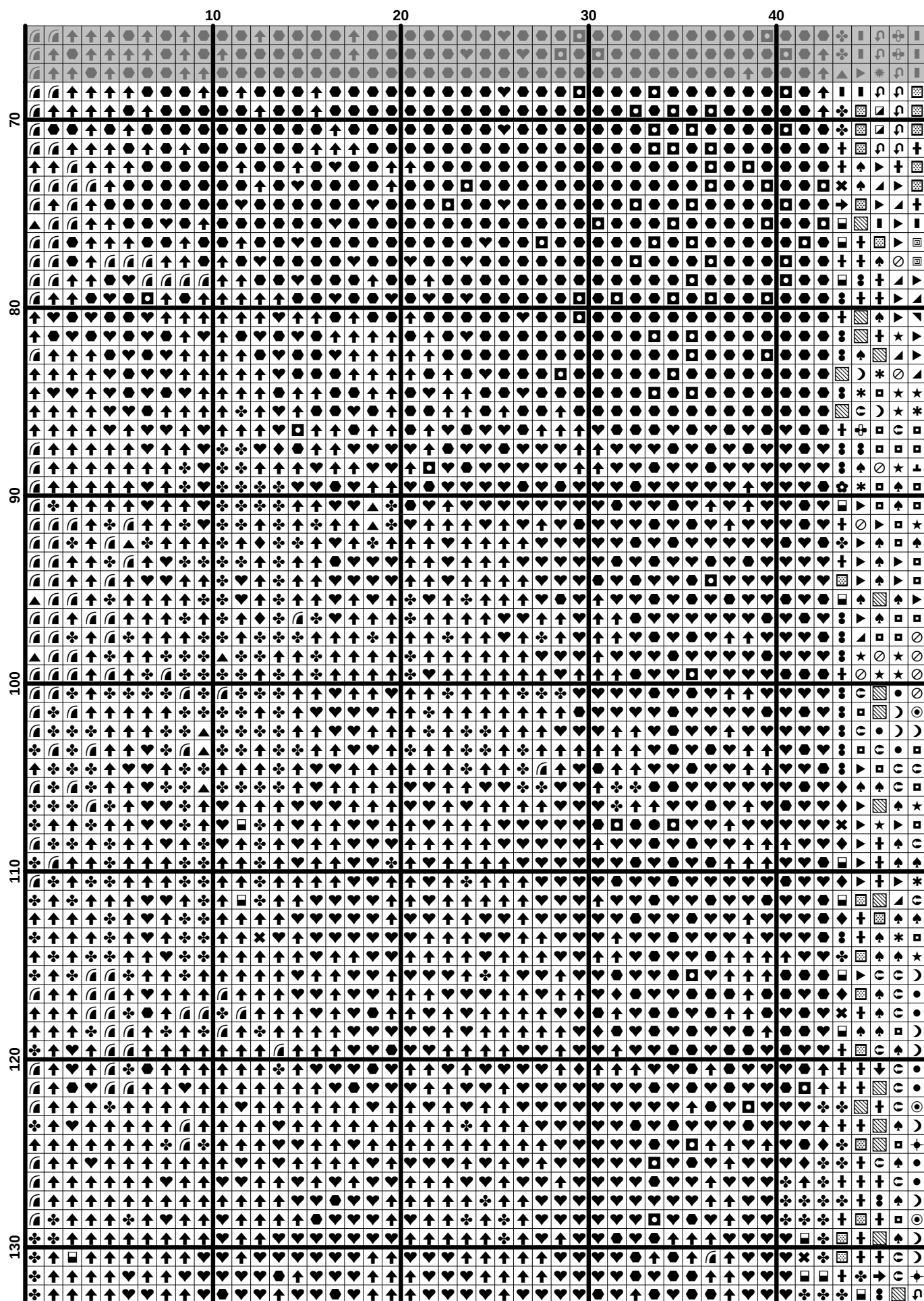
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10					
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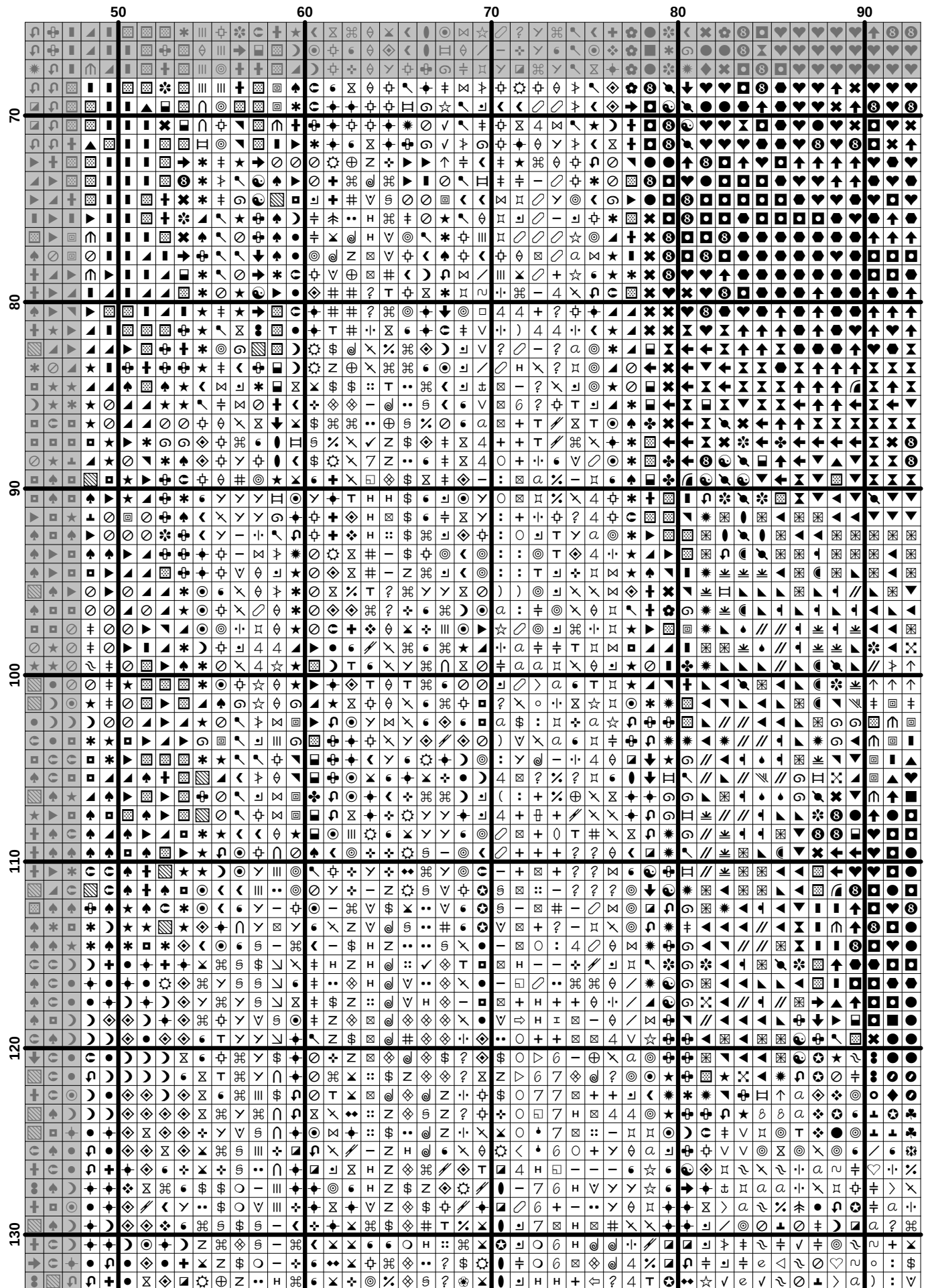


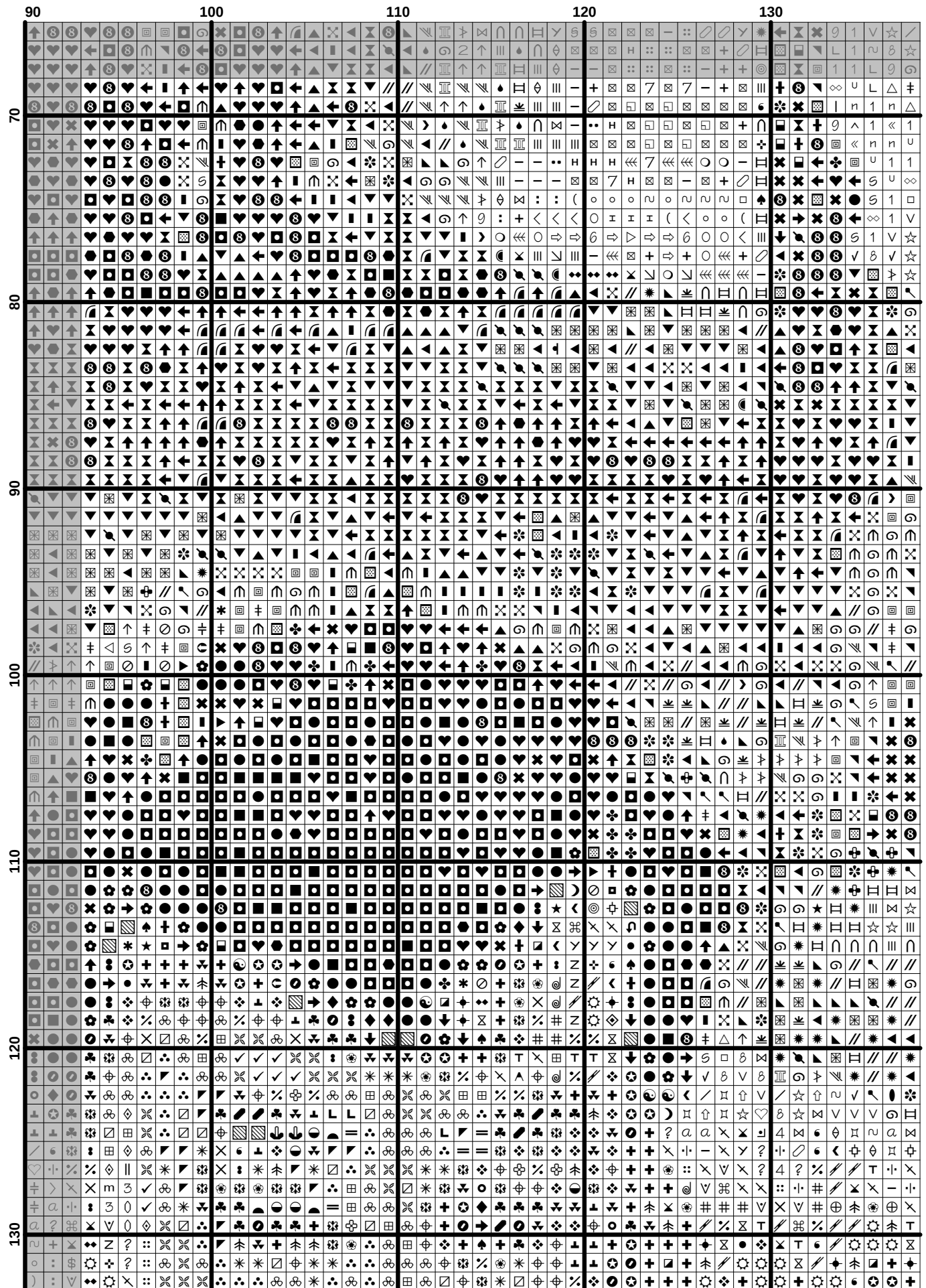


$$(23) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (24)$$

(24)

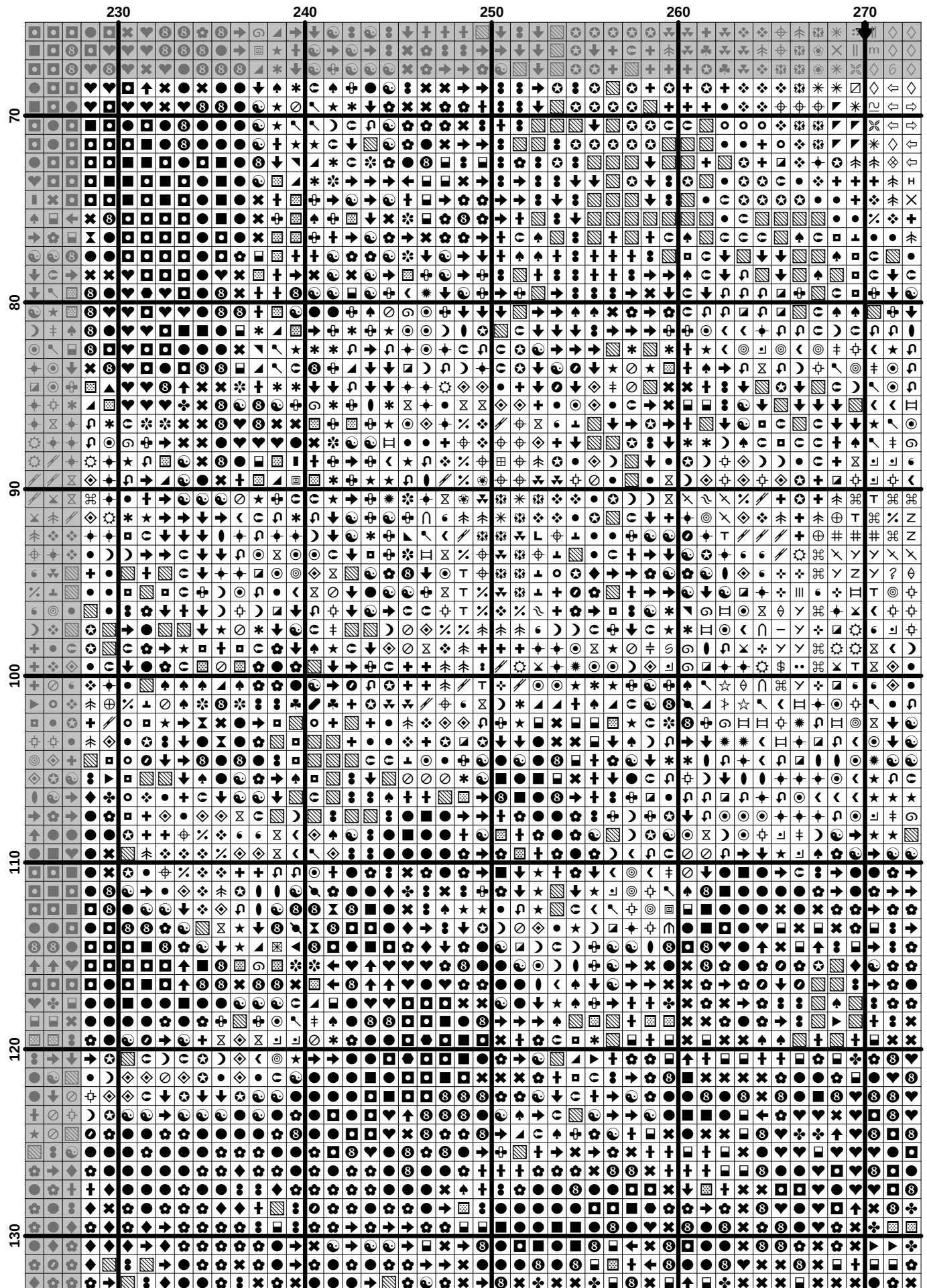


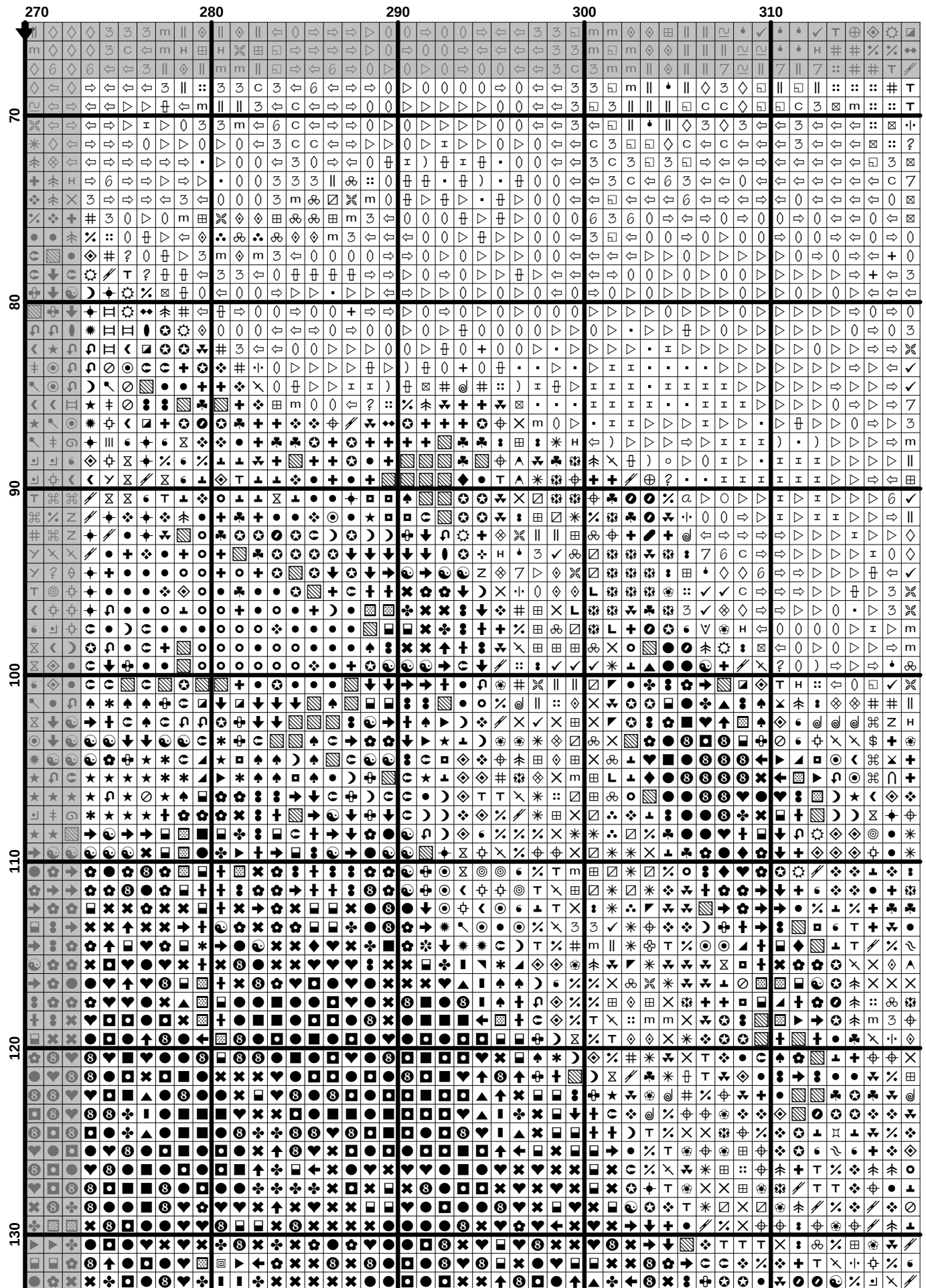




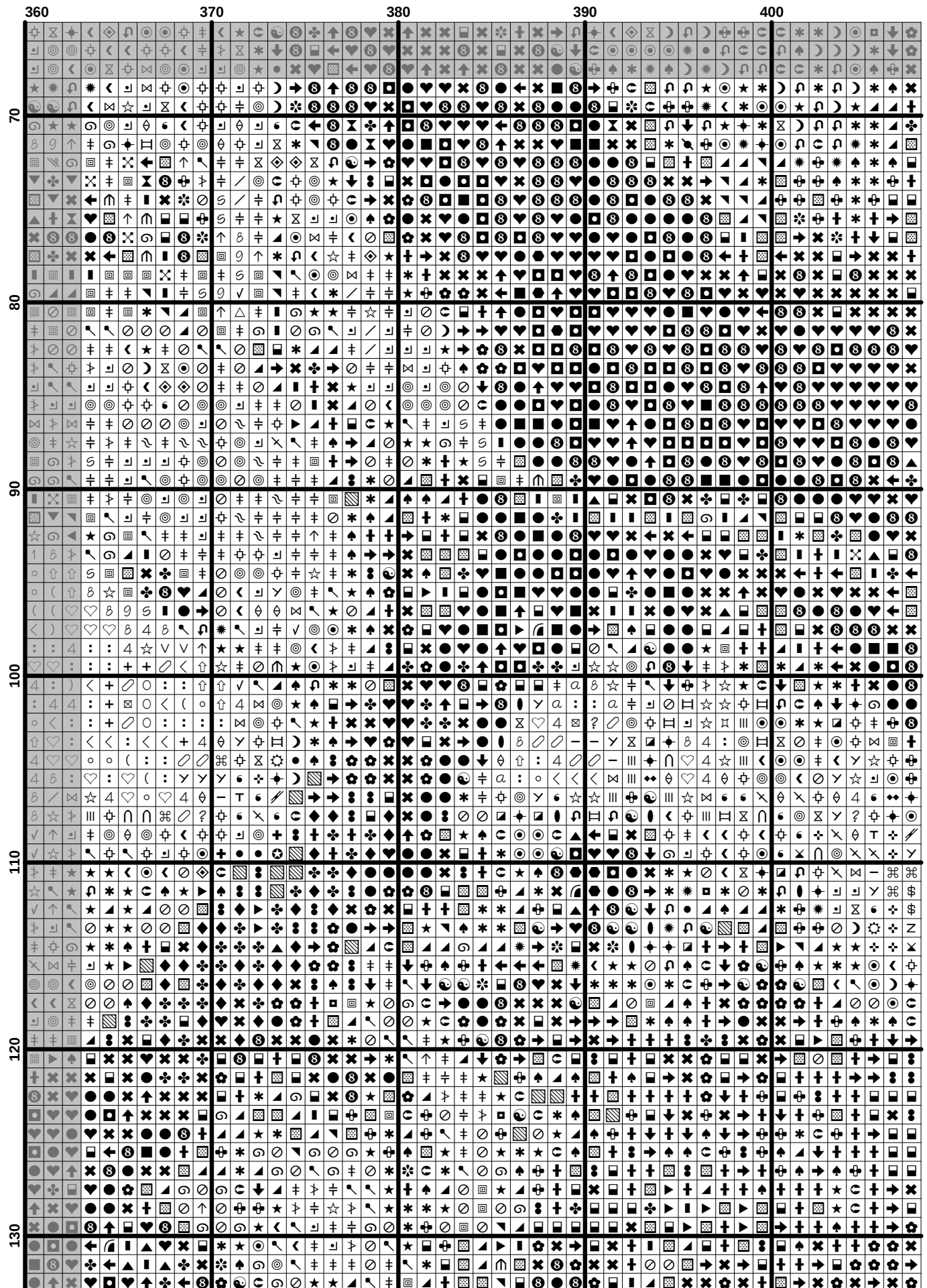
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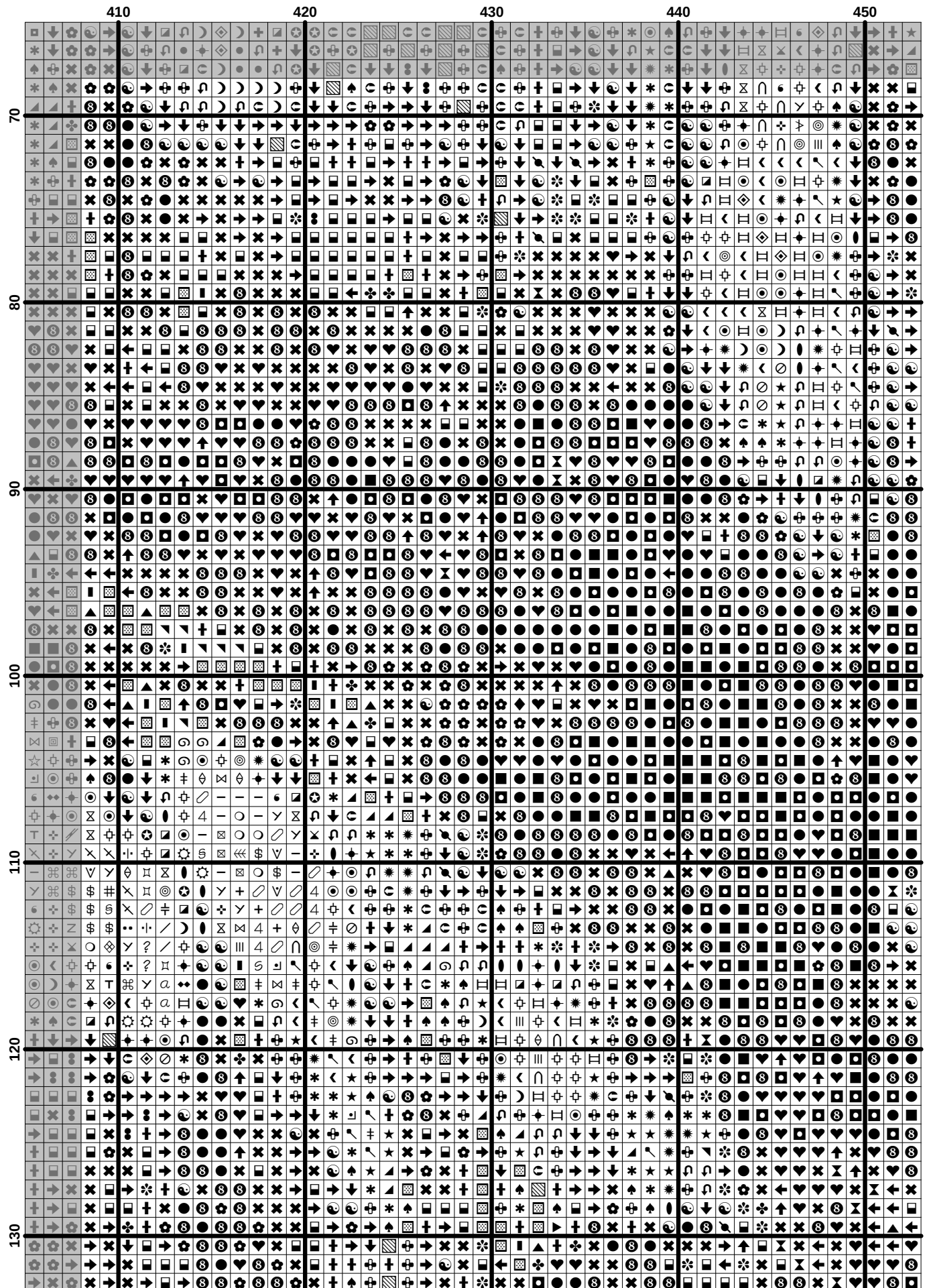
$$(29) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

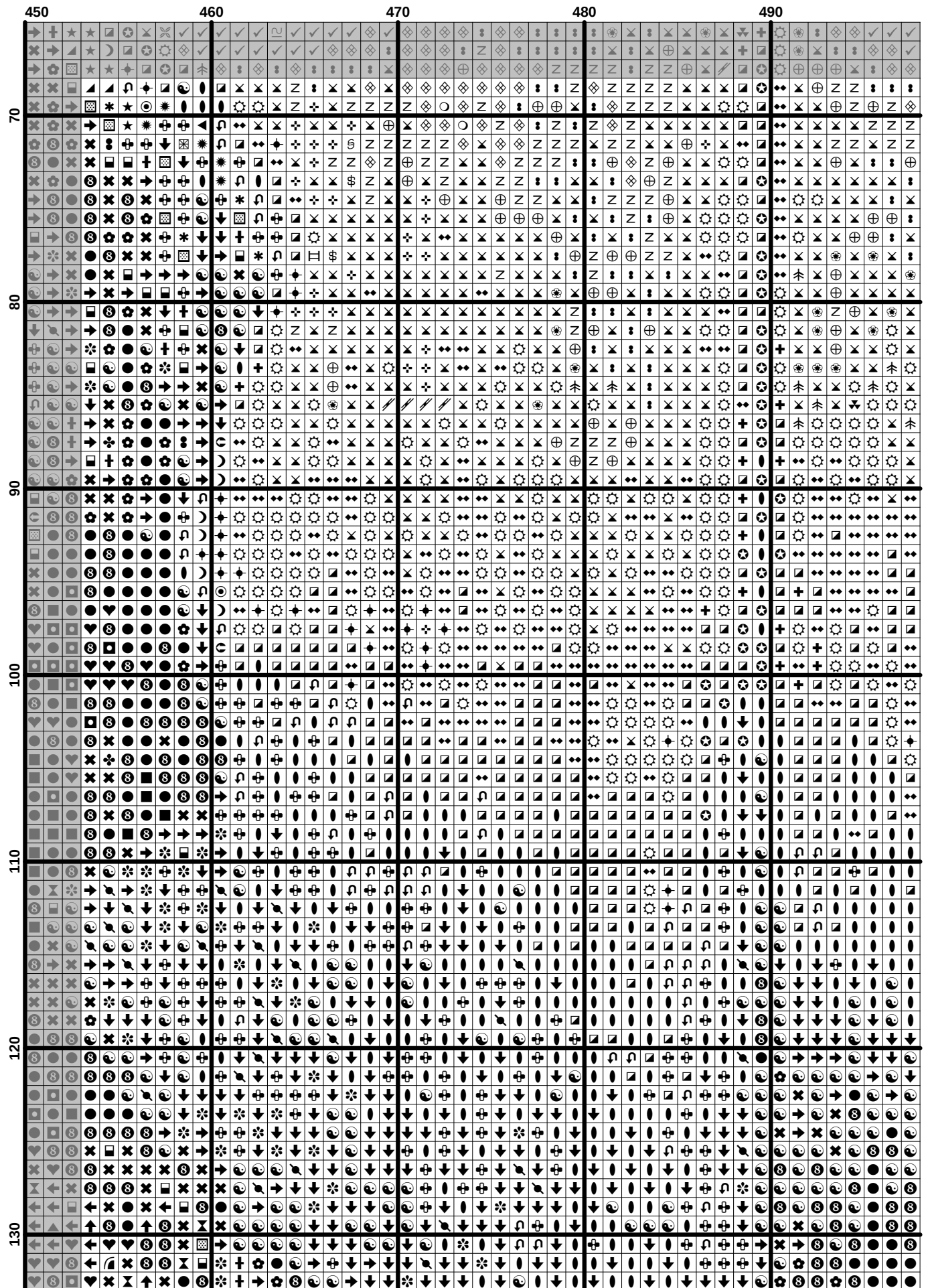


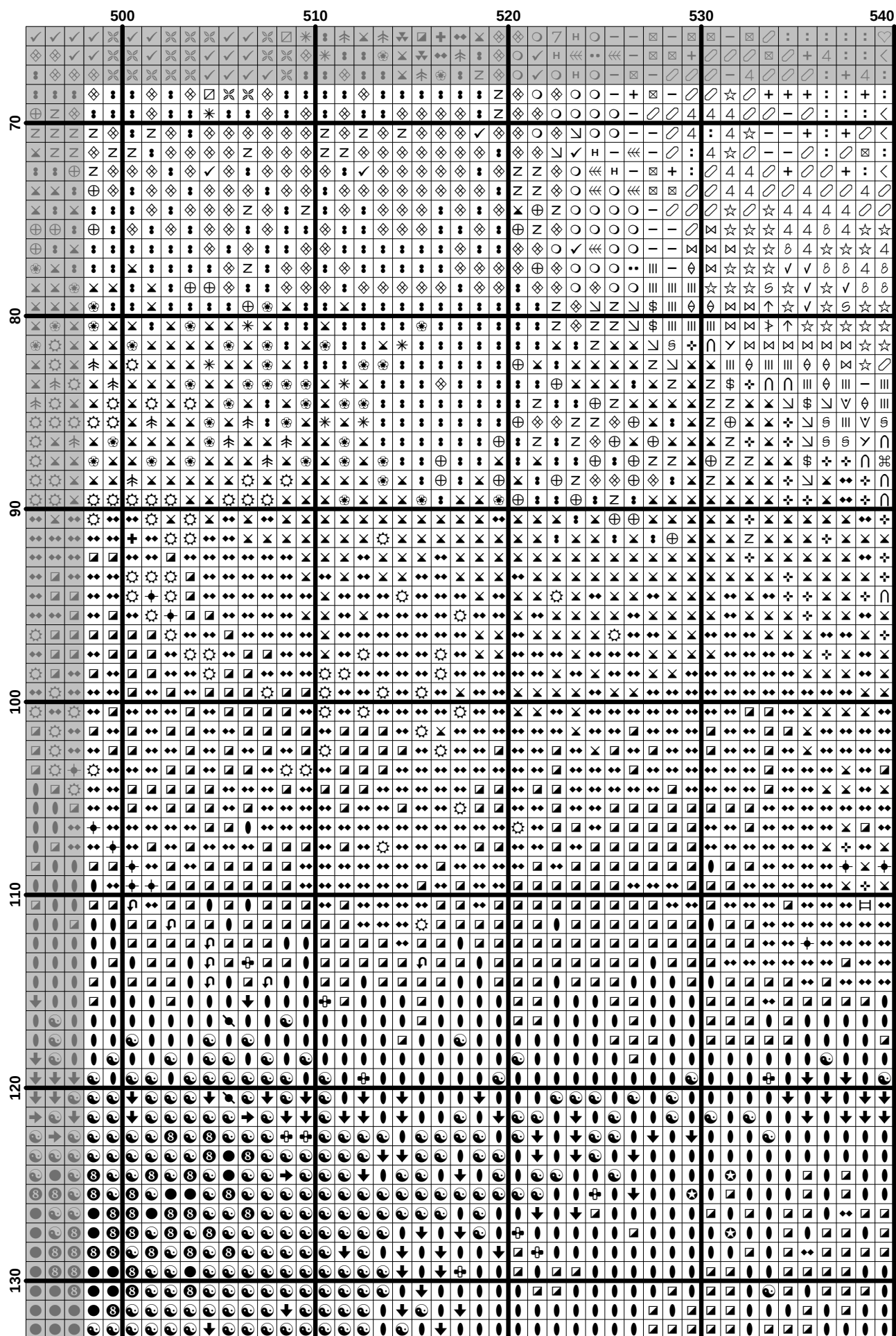


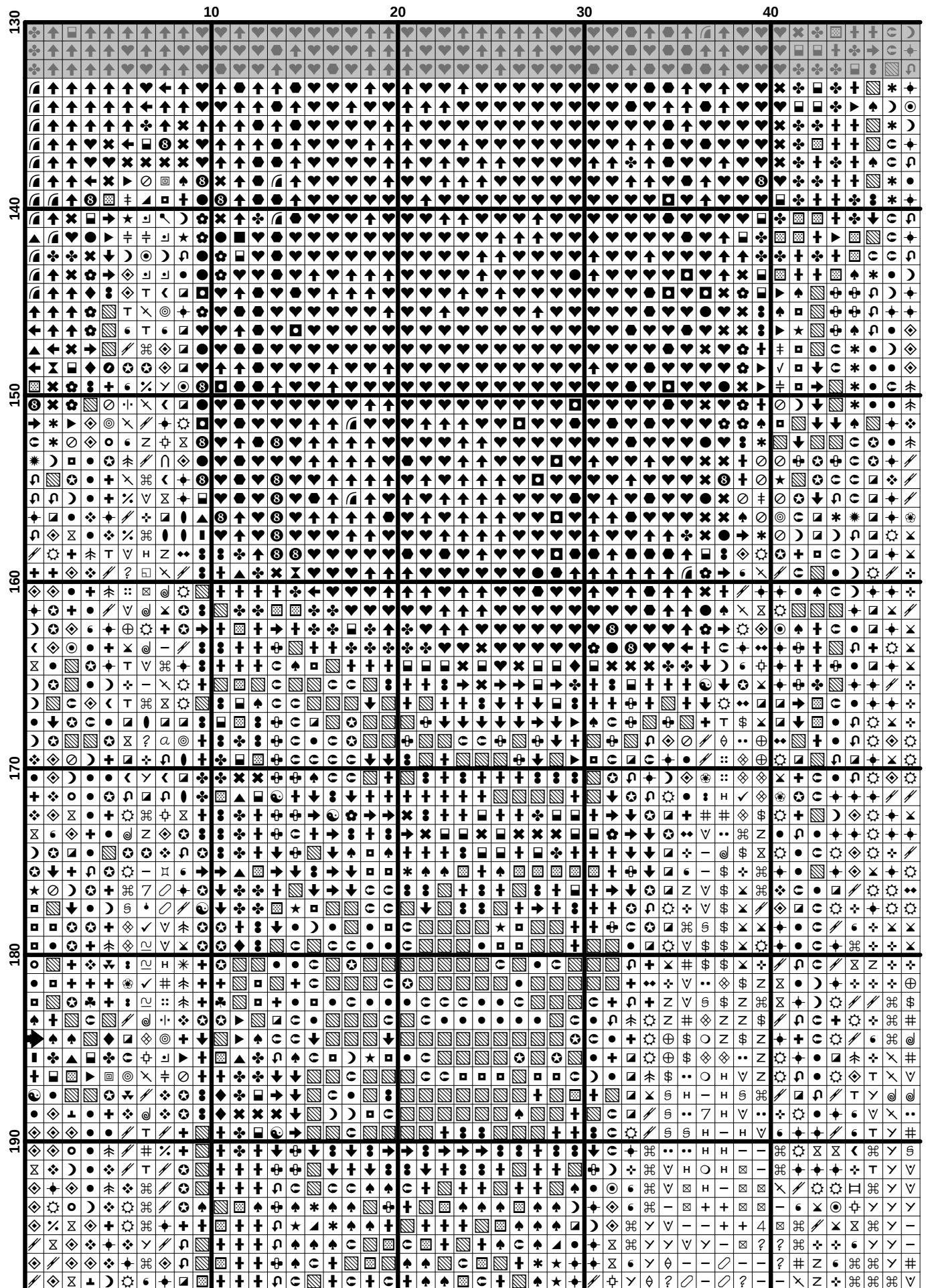
$$(32) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$









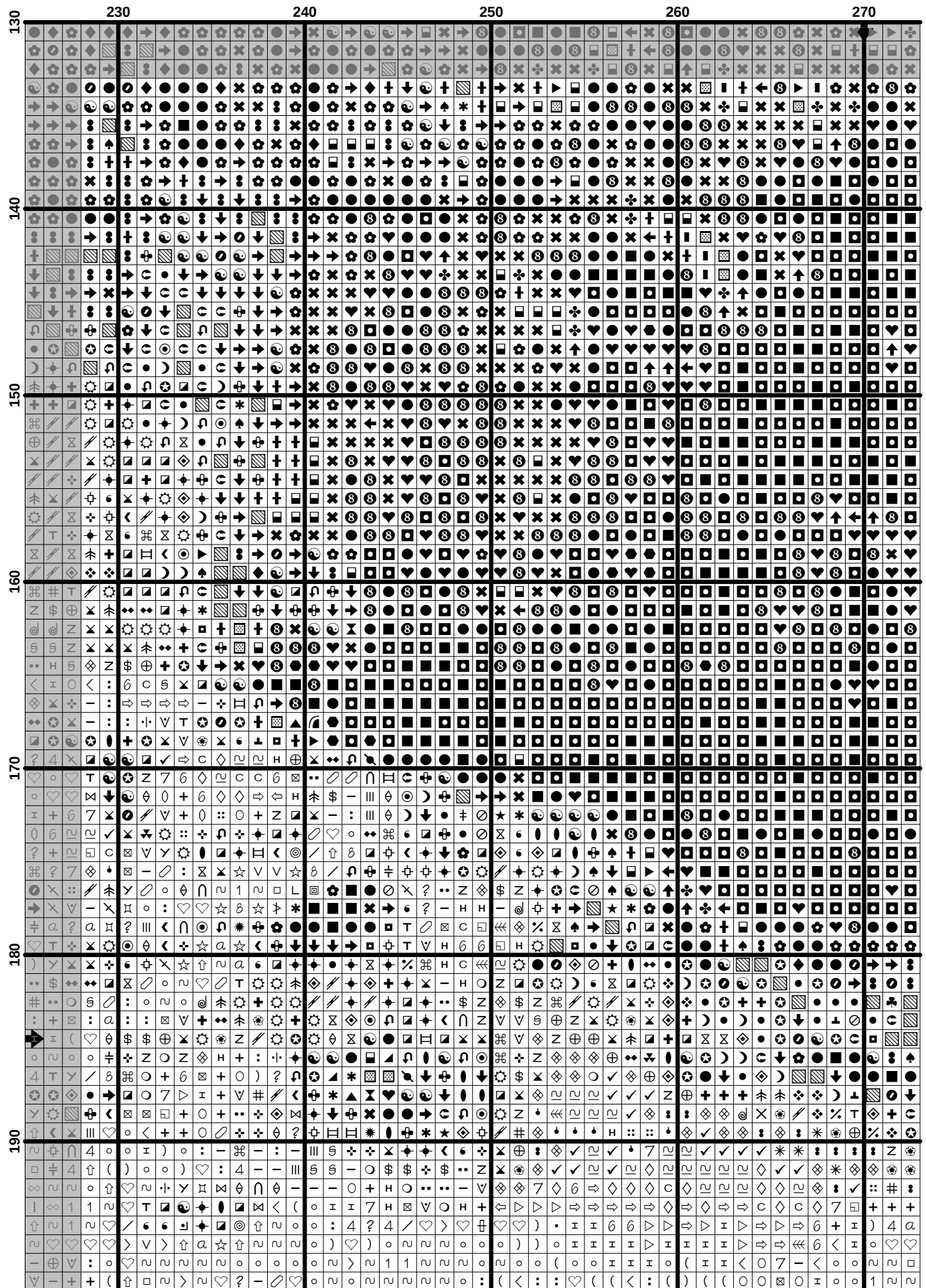


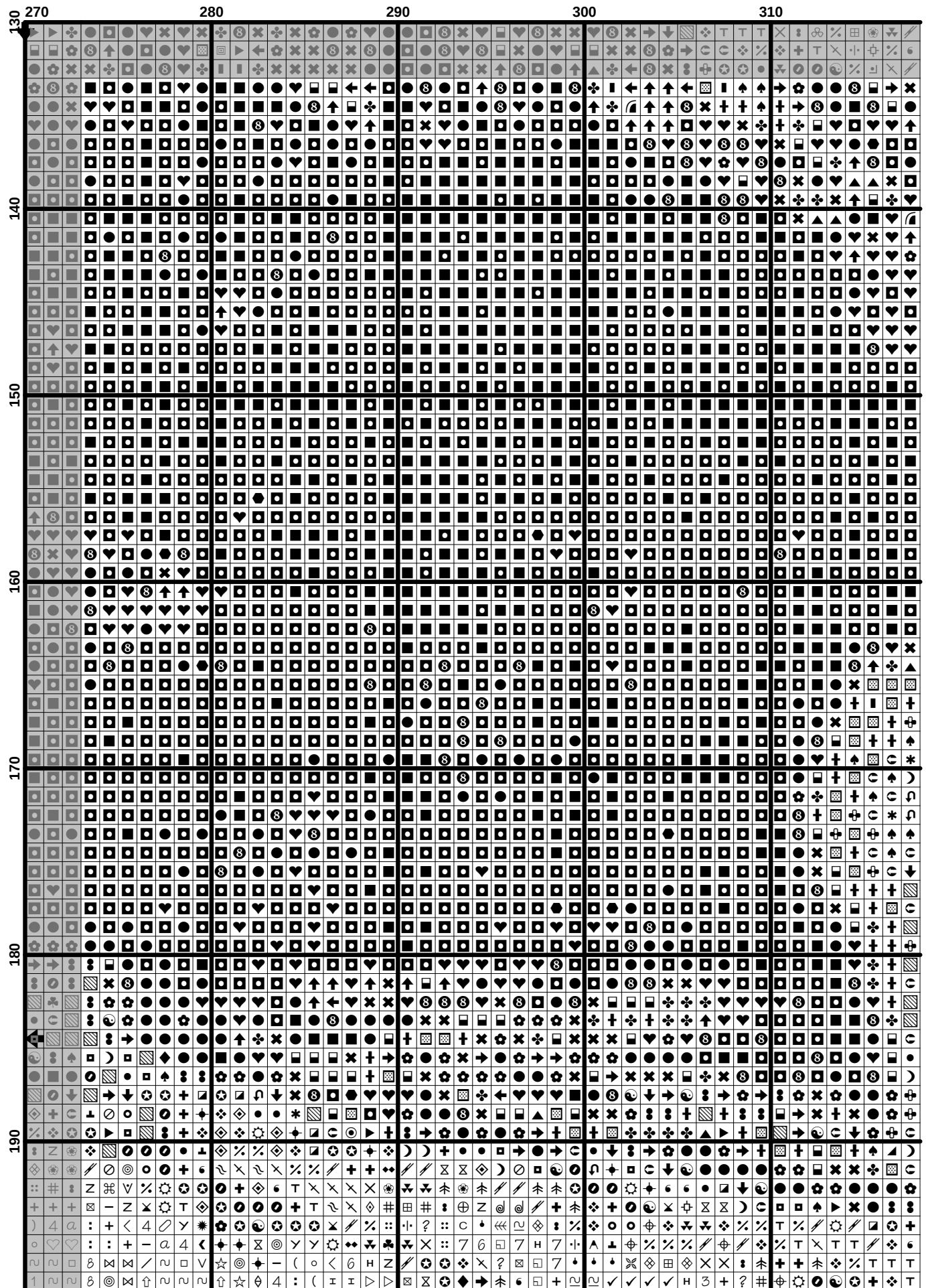
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130	+	+	+	+	+
140	+	+	+	+	+
150	+	+	+	+	+
160	+	+	+	+	+
170	+	+	+	+	+
180	+	+	+	+	+
190	+	+	+	+	+

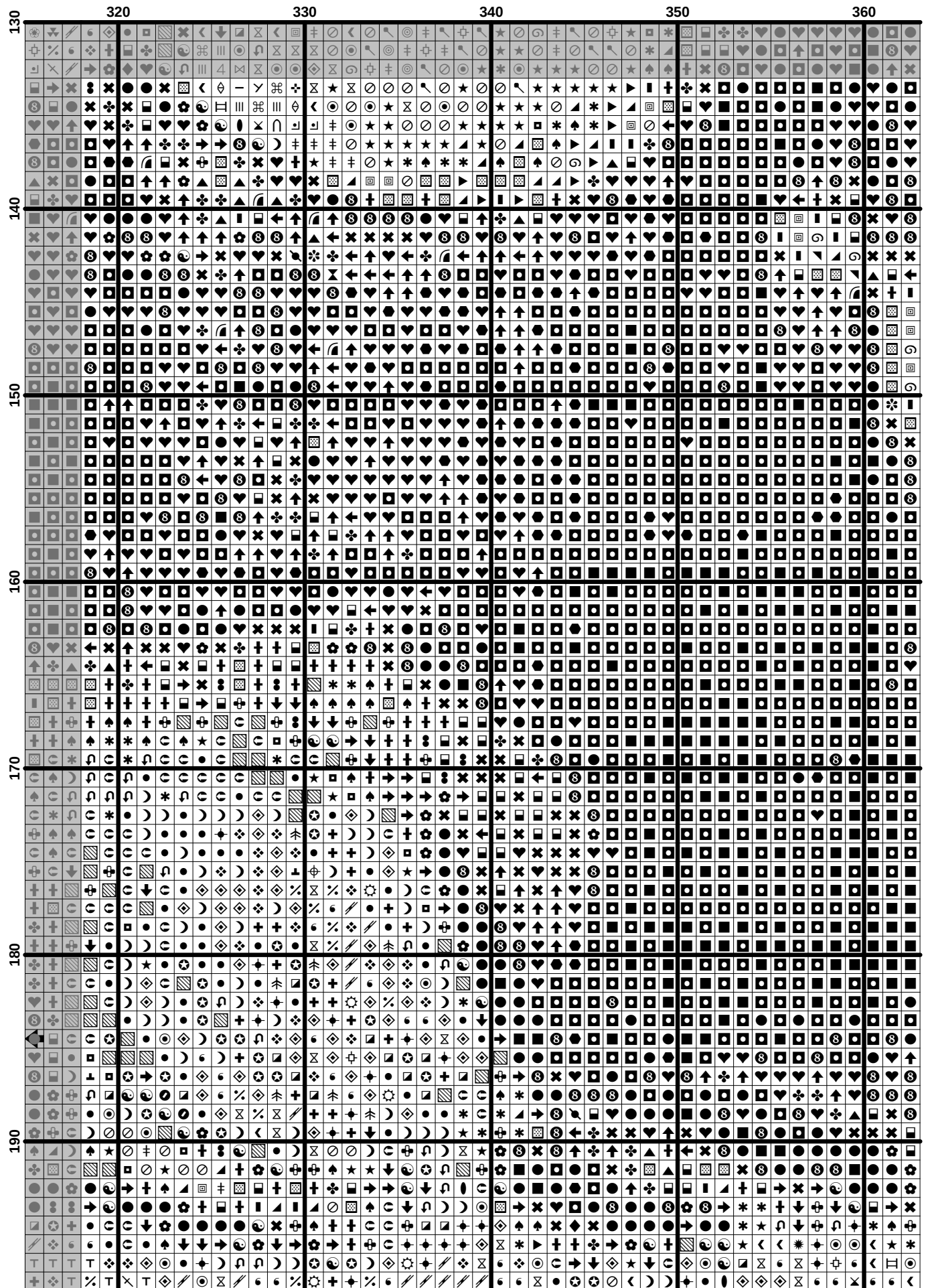
	90	100	110	120	130
130	+	+	+	+	+
140	+	+	+	+	+
150	+	+	+	+	+
160	+	+	+	+	+
170	+	+	+	+	+
180	+	+	+	+	+
190	+	+	+	+	+

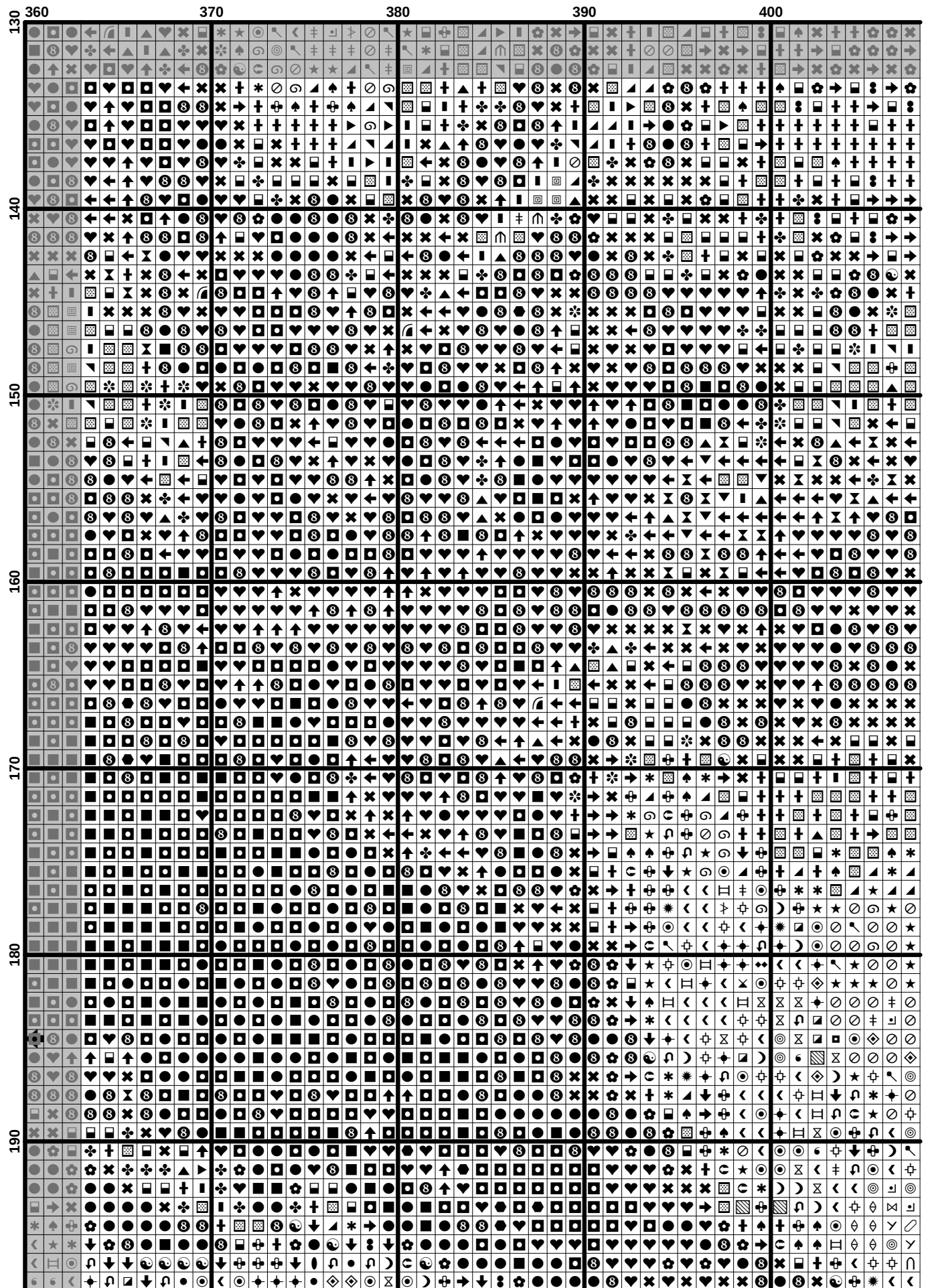
$$(40) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (41)$$

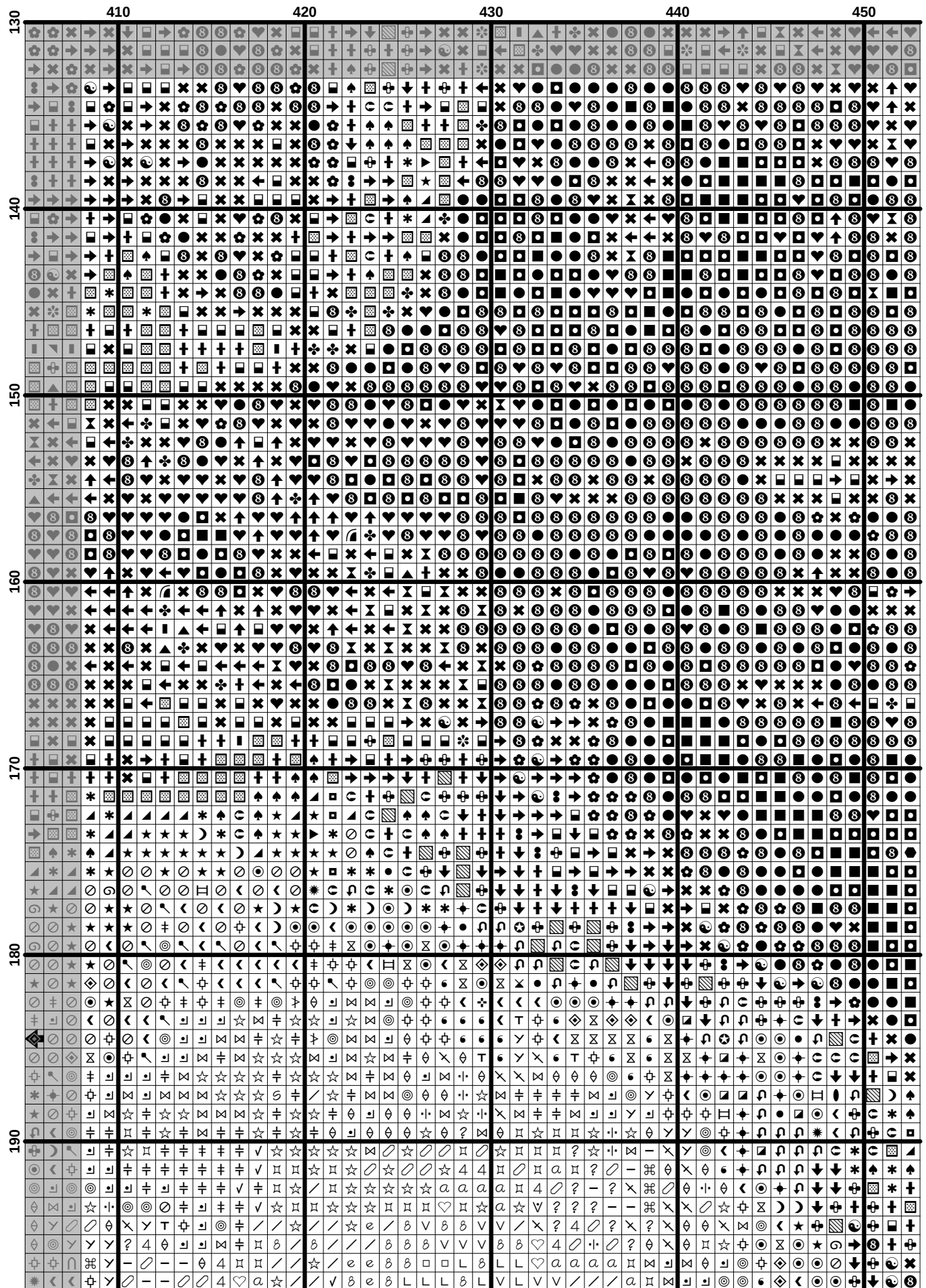
$$(41) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (42)$$

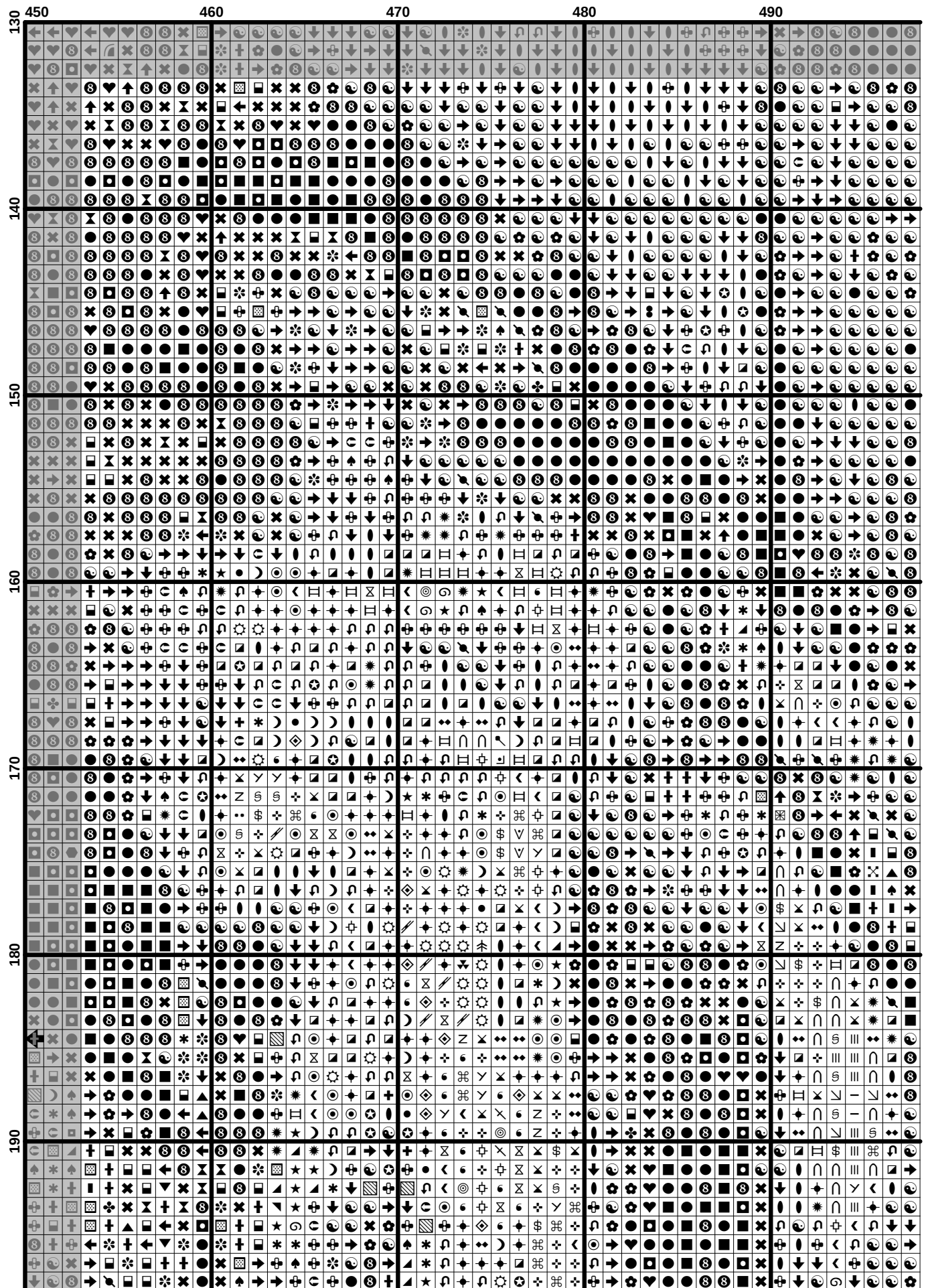


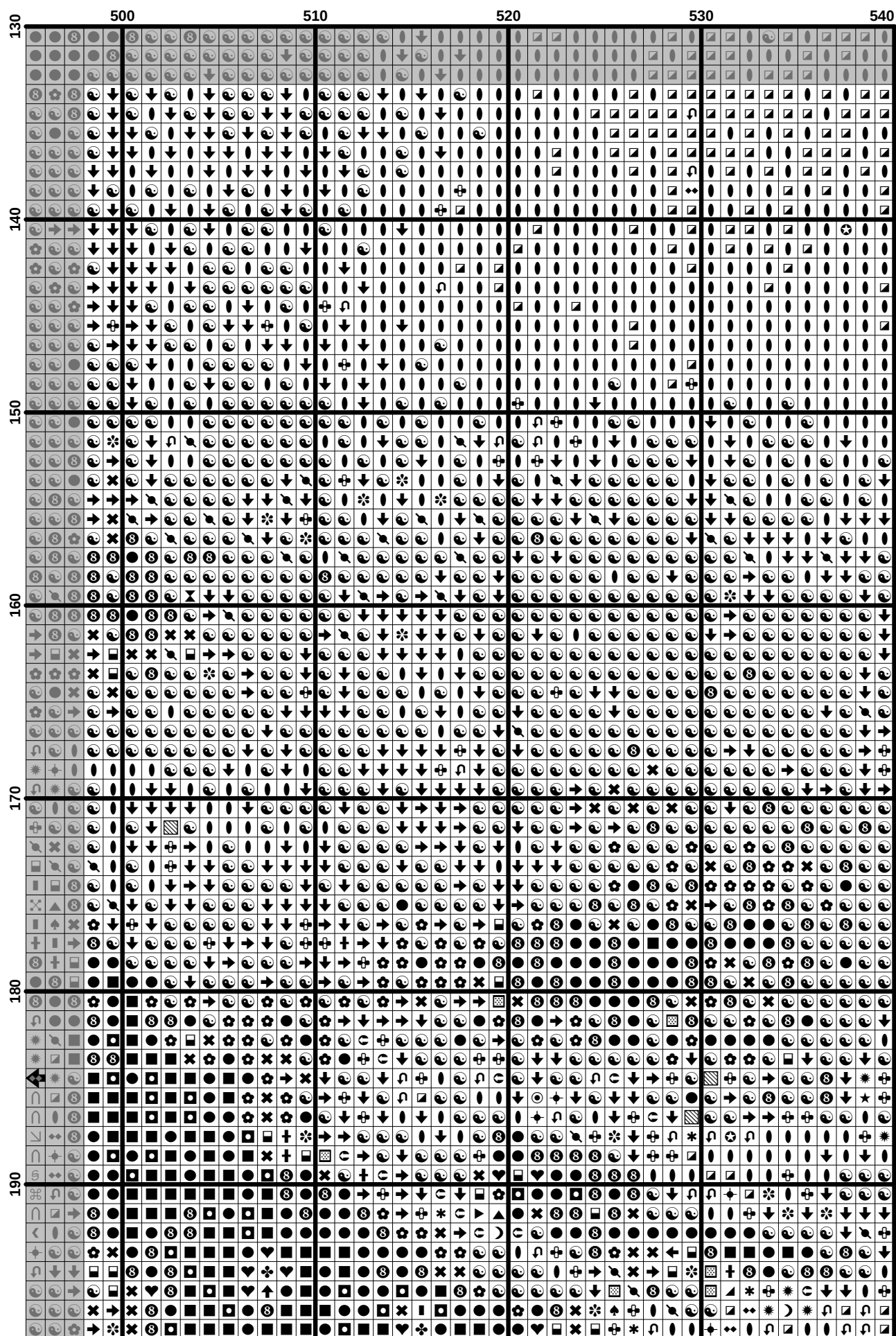


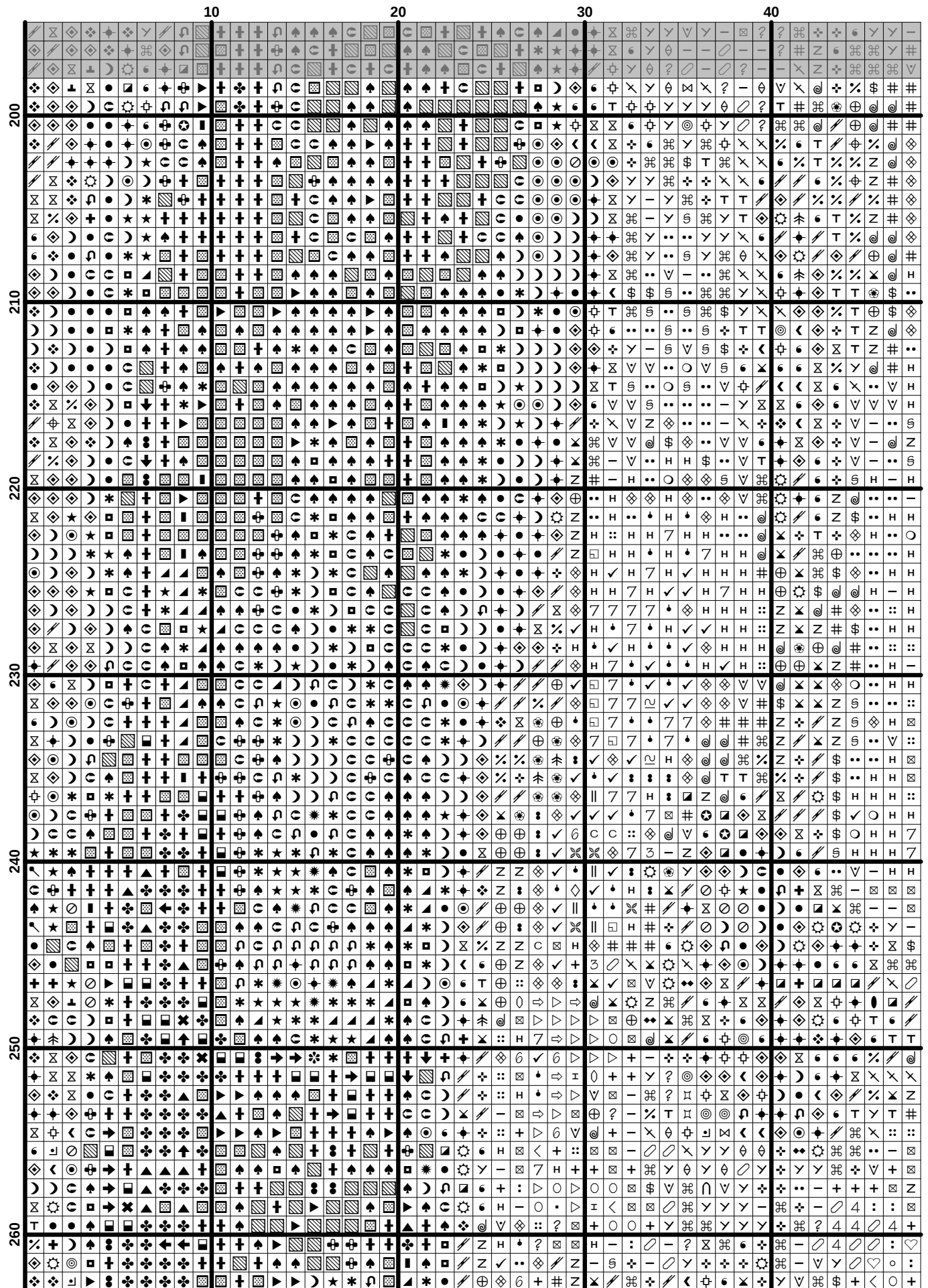










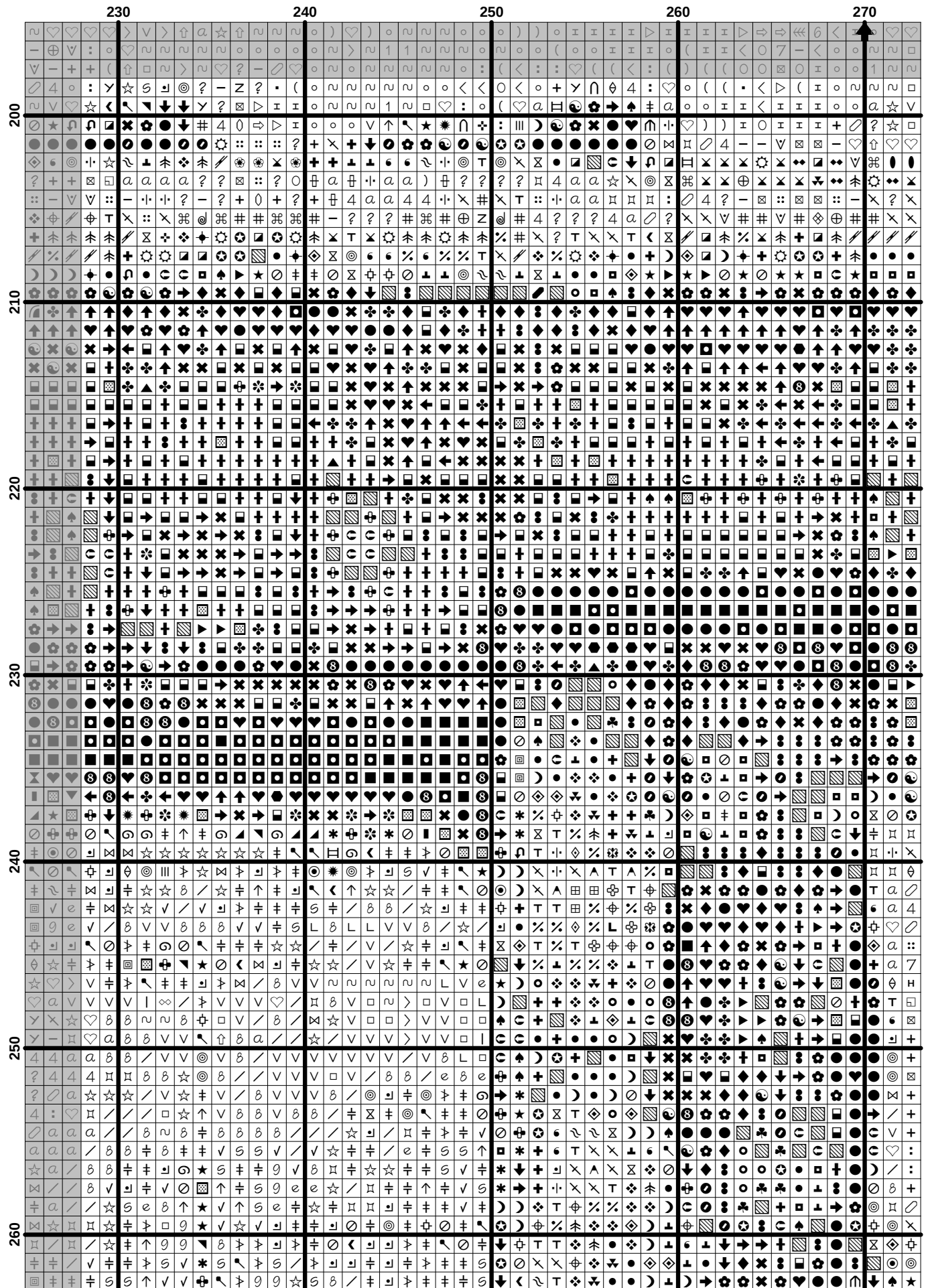


[illegible]

90	100	110	120	130
200	210	220	230	240
250	260			

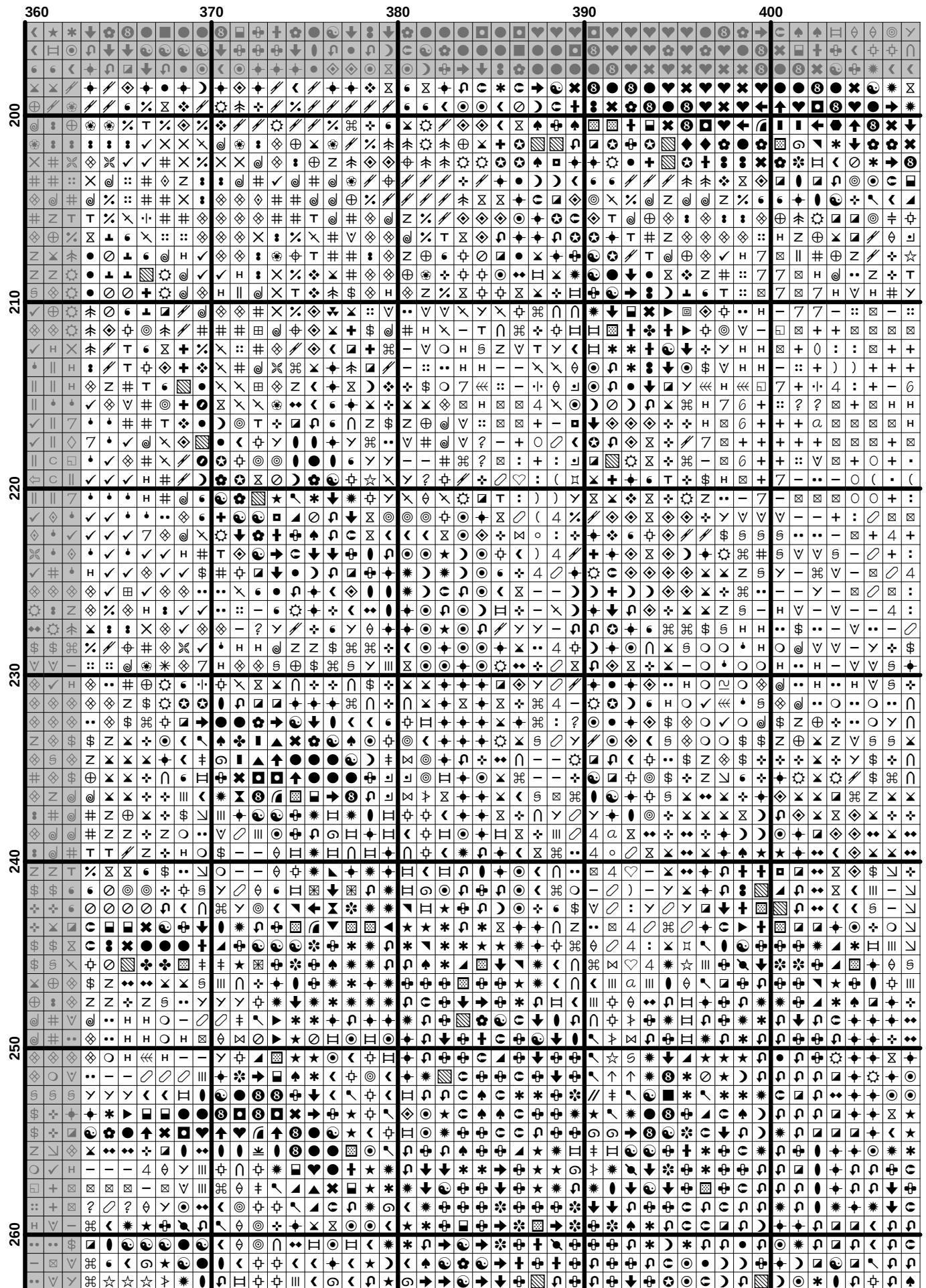
[illegible]

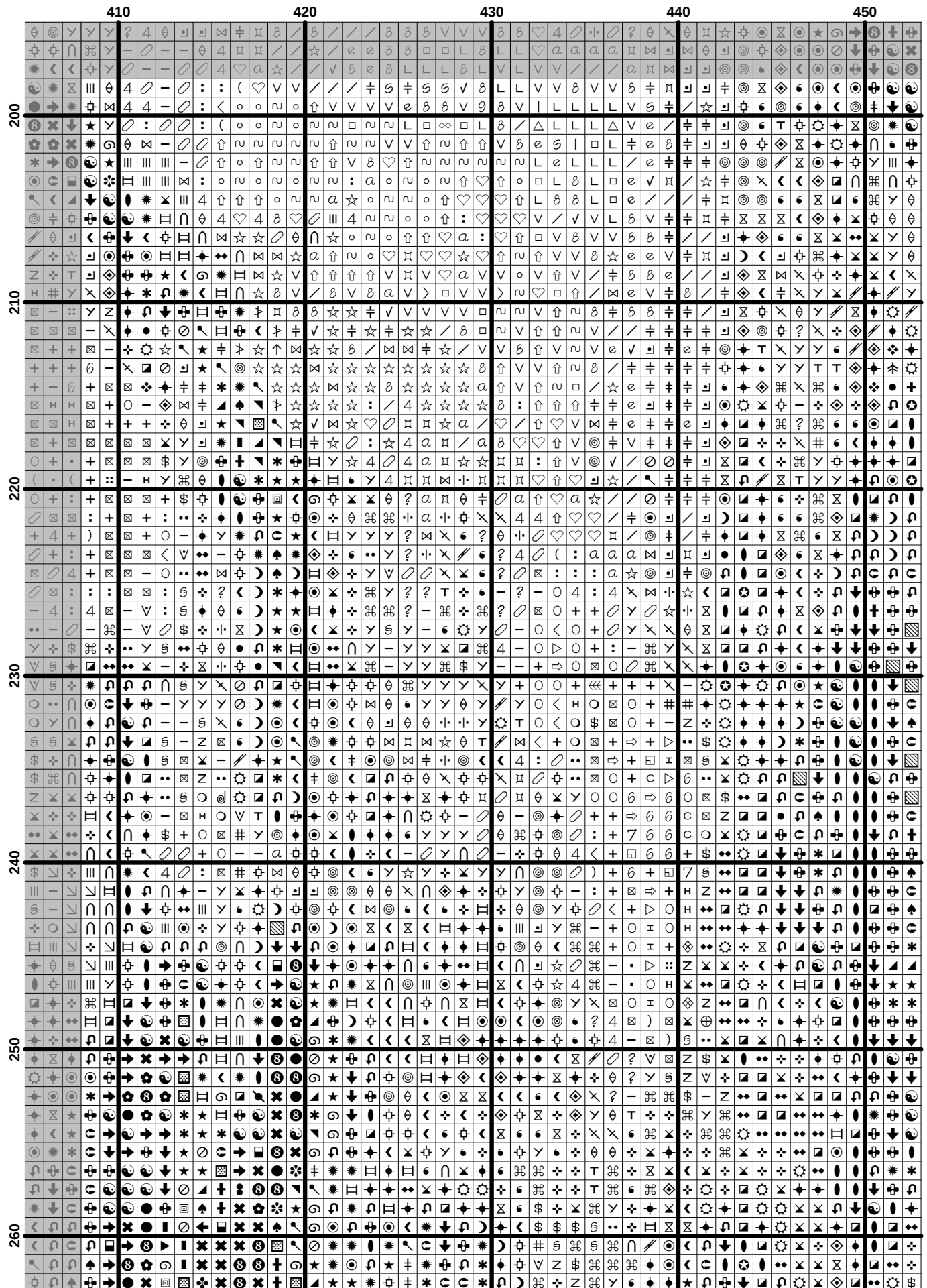
[illegible]

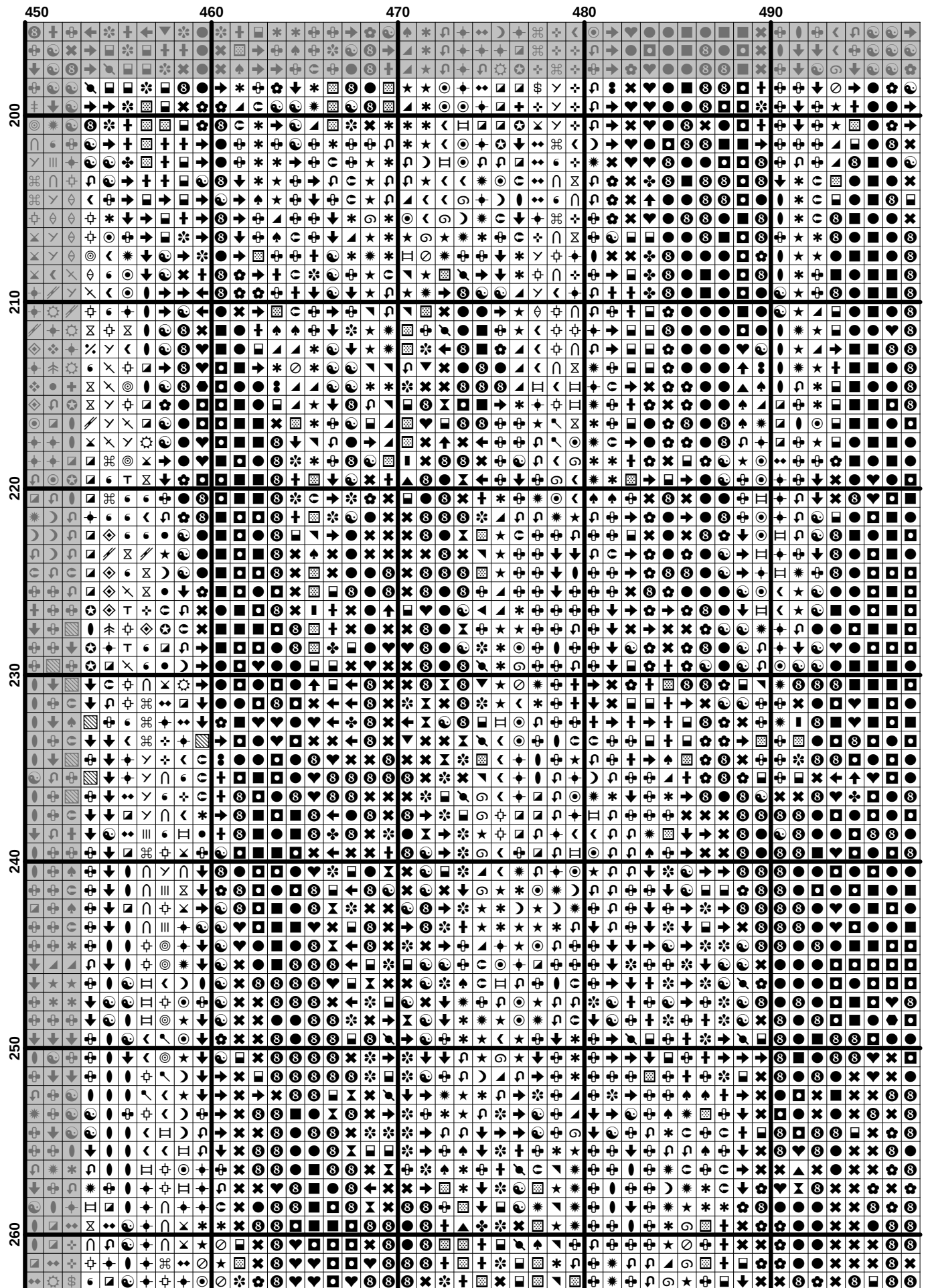


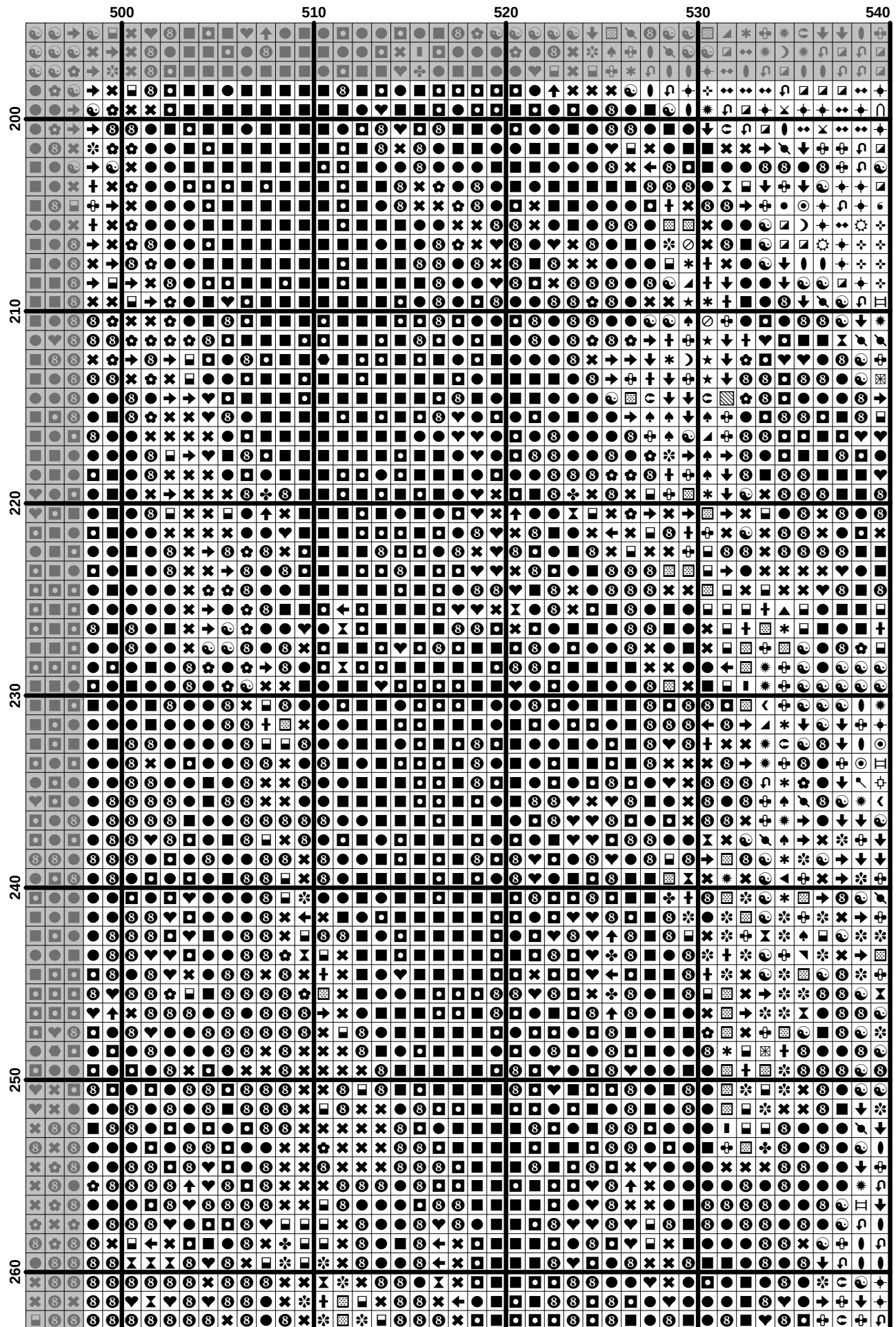
	270	280	290	300	310
200	270	280	290	300	310
210					
220					
230					
240					
250					
260					

	320										330										340										350										360									
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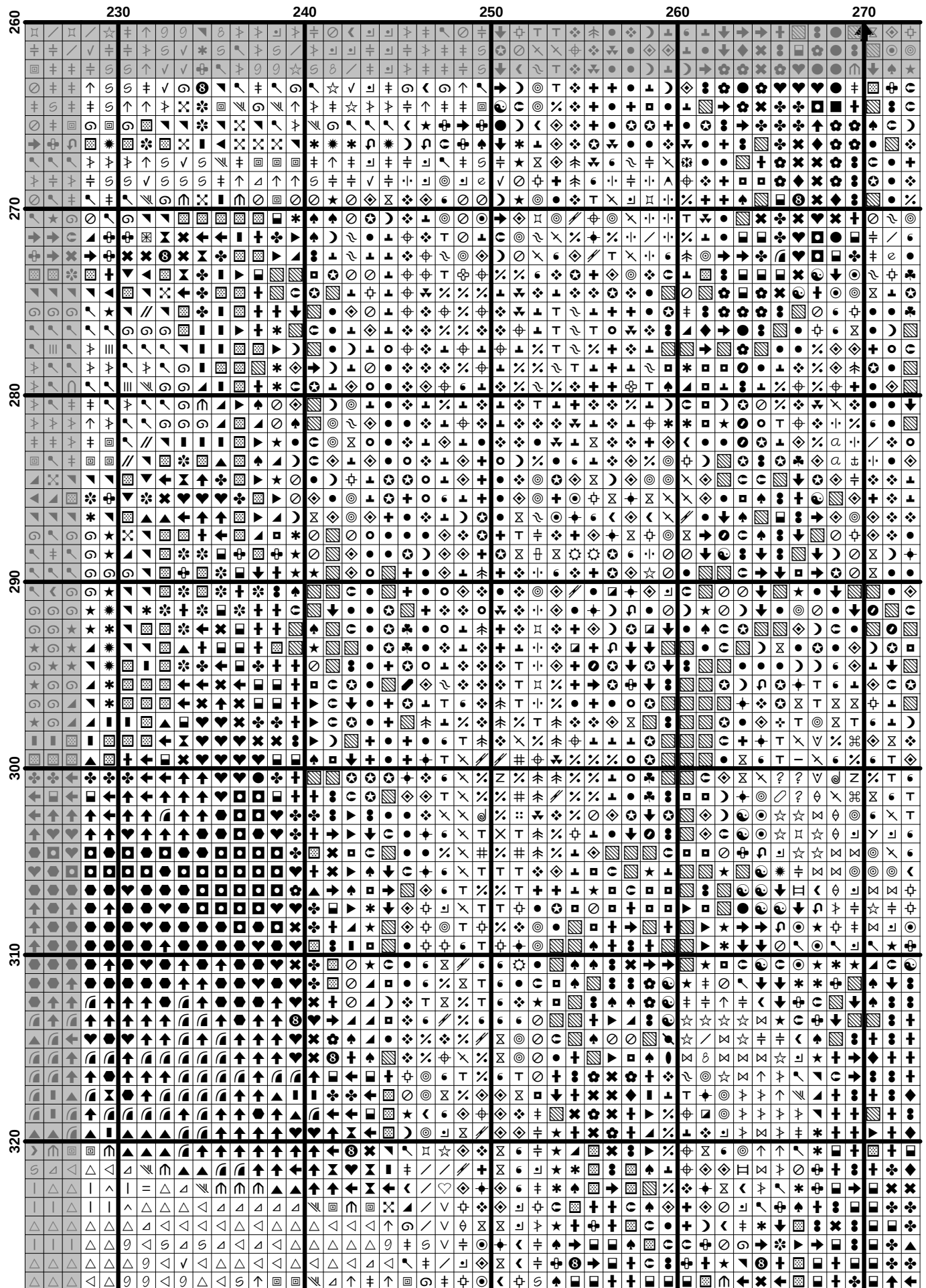
	10	20	30	40
260	+	+	+	+
270	+	+	+	+
280	+	+	+	+
290	+	+	+	+
300	+	+	+	+
310	+	+	+	+
320	+	+	+	+
330	+	+	+	+
340	+	+	+	+
350	+	+	+	+
360	+	+	+	+
370	+	+	+	+
380	+	+	+	+
390	+	+	+	+
400	+	+	+	+
410	+	+	+	+
420	+	+	+	+
430	+	+	+	+
440	+	+	+	+
450	+	+	+	+
460	+	+	+	+
470	+	+	+	+
480	+	+	+	+
490	+	+	+	+
500	+	+	+	+
510	+	+	+	+
520	+	+	+	+
530	+	+	+	+
540	+	+	+	+
550	+	+	+	+
560	+	+	+	+
570	+	+	+	+
580	+	+	+	+
590	+	+	+	+
600	+	+	+	+
610	+	+	+	+
620	+	+	+	+
630	+	+	+	+
640	+	+	+	+
650	+	+	+	+
660	+	+	+	+
670	+	+	+	+
680	+	+	+	+
690	+	+	+	+
700	+	+	+	+
710	+	+	+	+
720	+	+	+	+
730	+	+	+	+
740	+	+	+	+
750	+	+	+	+
760	+	+	+	+
770	+	+	+	+
780	+	+	+	+
790	+	+	+	+
800	+	+	+	+
810	+	+	+	+
820	+	+	+	+
830	+	+	+	+
840	+	+	+	+
850	+	+	+	+
860	+	+	+	+
870	+	+	+	+
880	+	+	+	+
890	+	+	+	+
900	+	+	+	+
910	+	+	+	+
920	+	+	+	+
930	+	+	+	+
940	+	+	+	+
950	+	+	+	+
960	+	+	+	+
970	+	+	+	+
980	+	+	+	+
990	+	+	+	+
1000	+	+	+	+

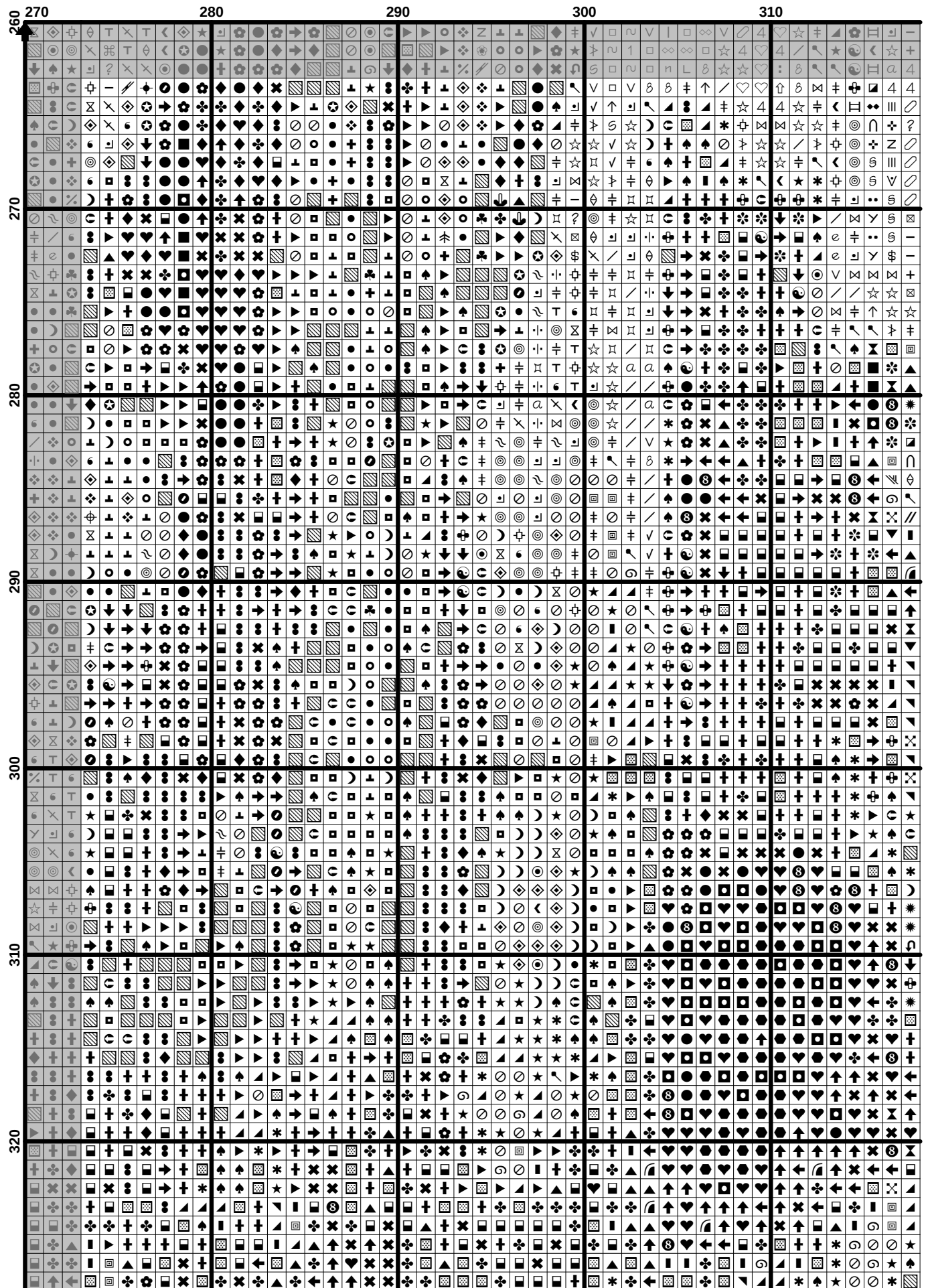
$$(62) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	90	100	110	120	130
260	90	100	110	120	130
270	270	270	270	270	270
280	280	280	280	280	280
290	290	290	290	290	290
300	300	300	300	300	300
310	310	310	310	310	310
320	320	320	320	320	320

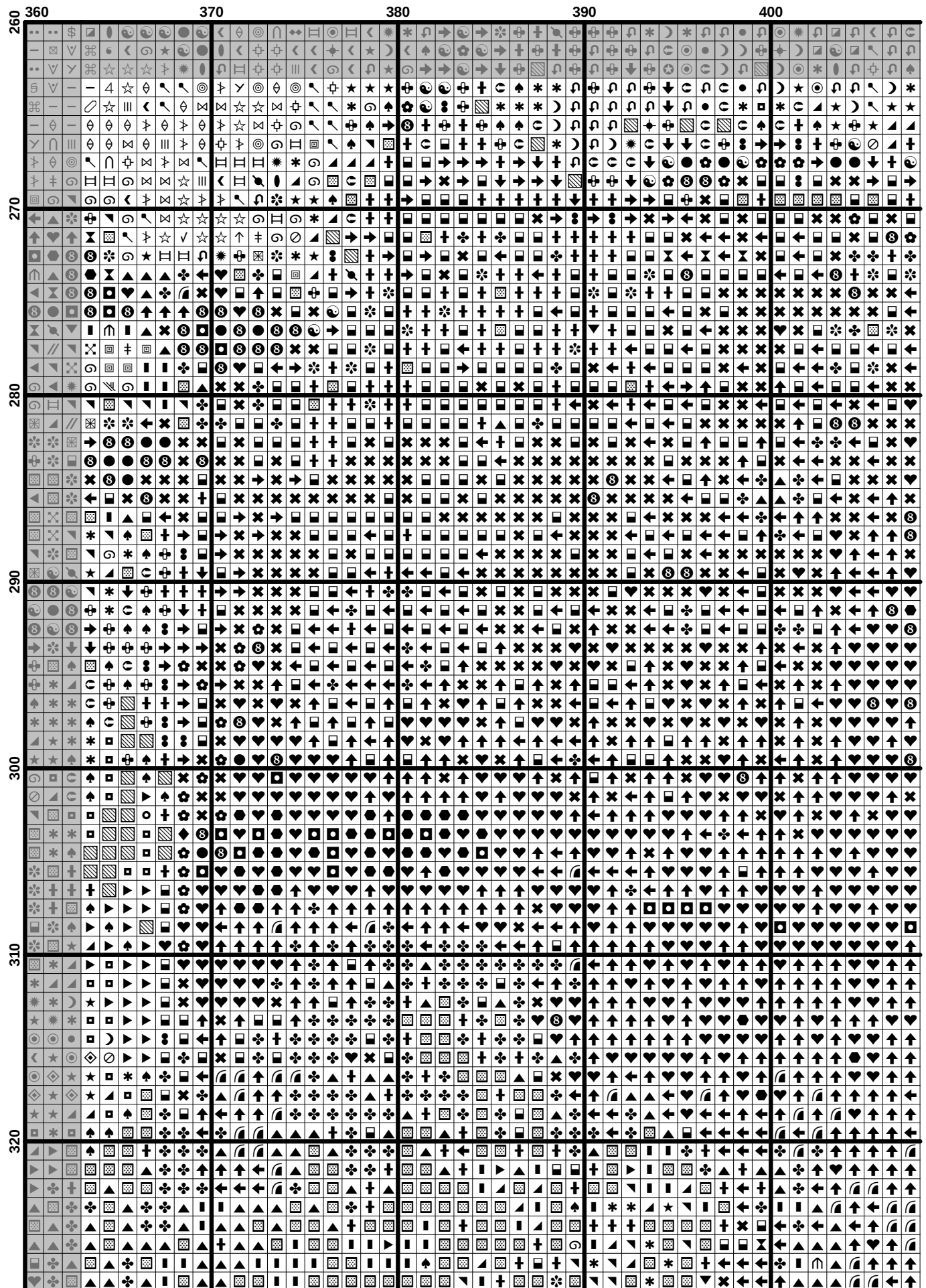
[illegible]

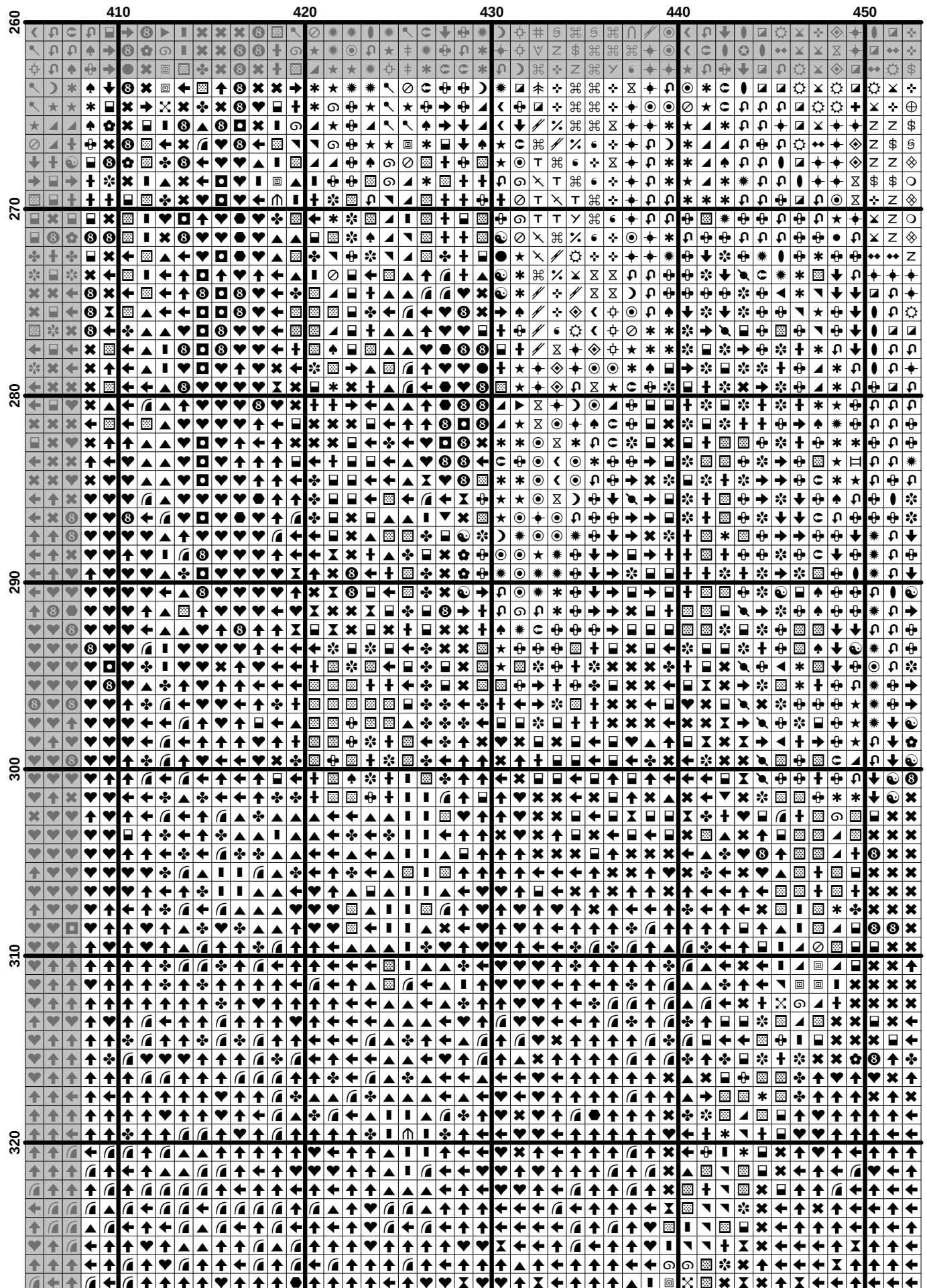
[illegible]

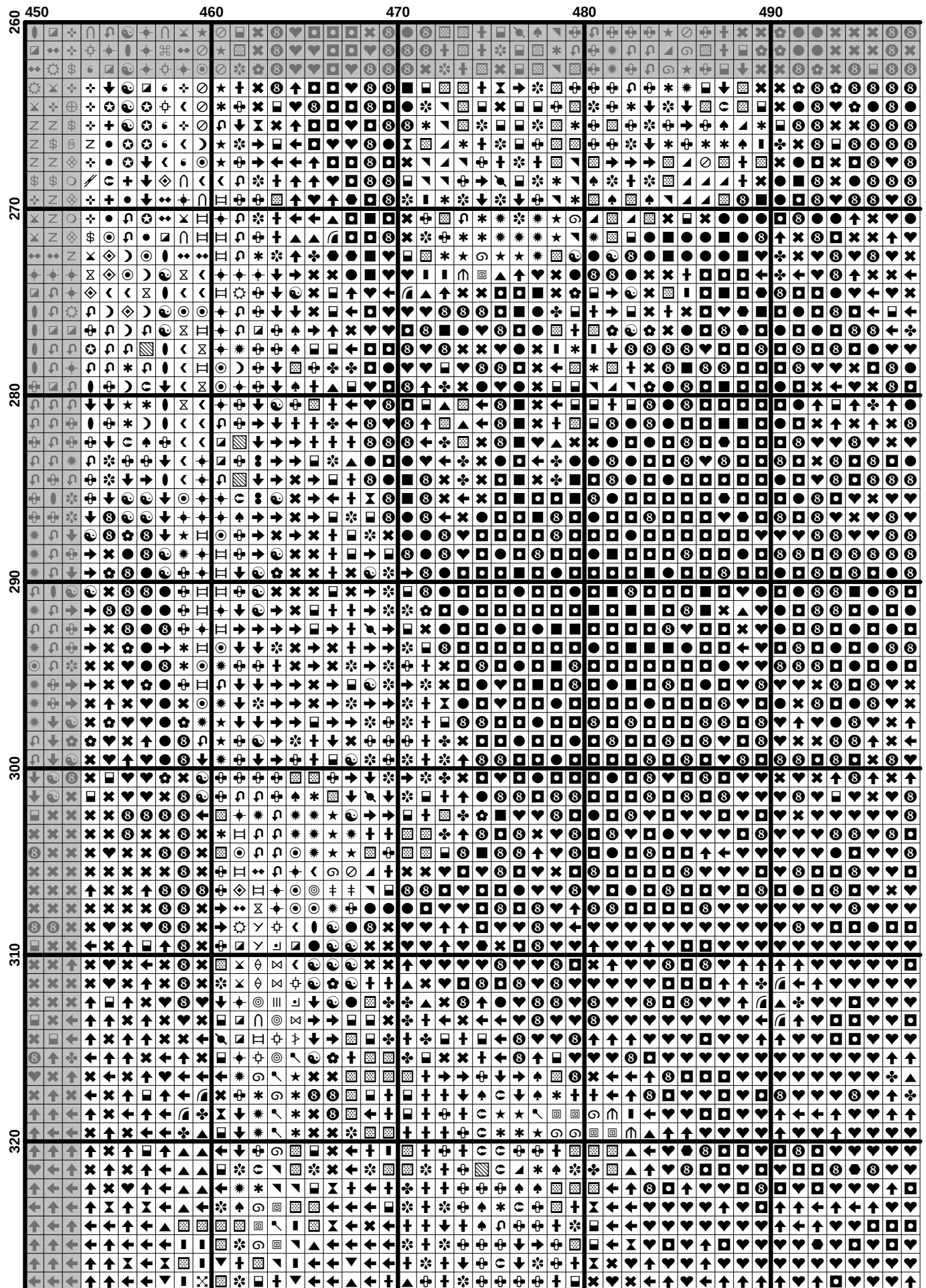


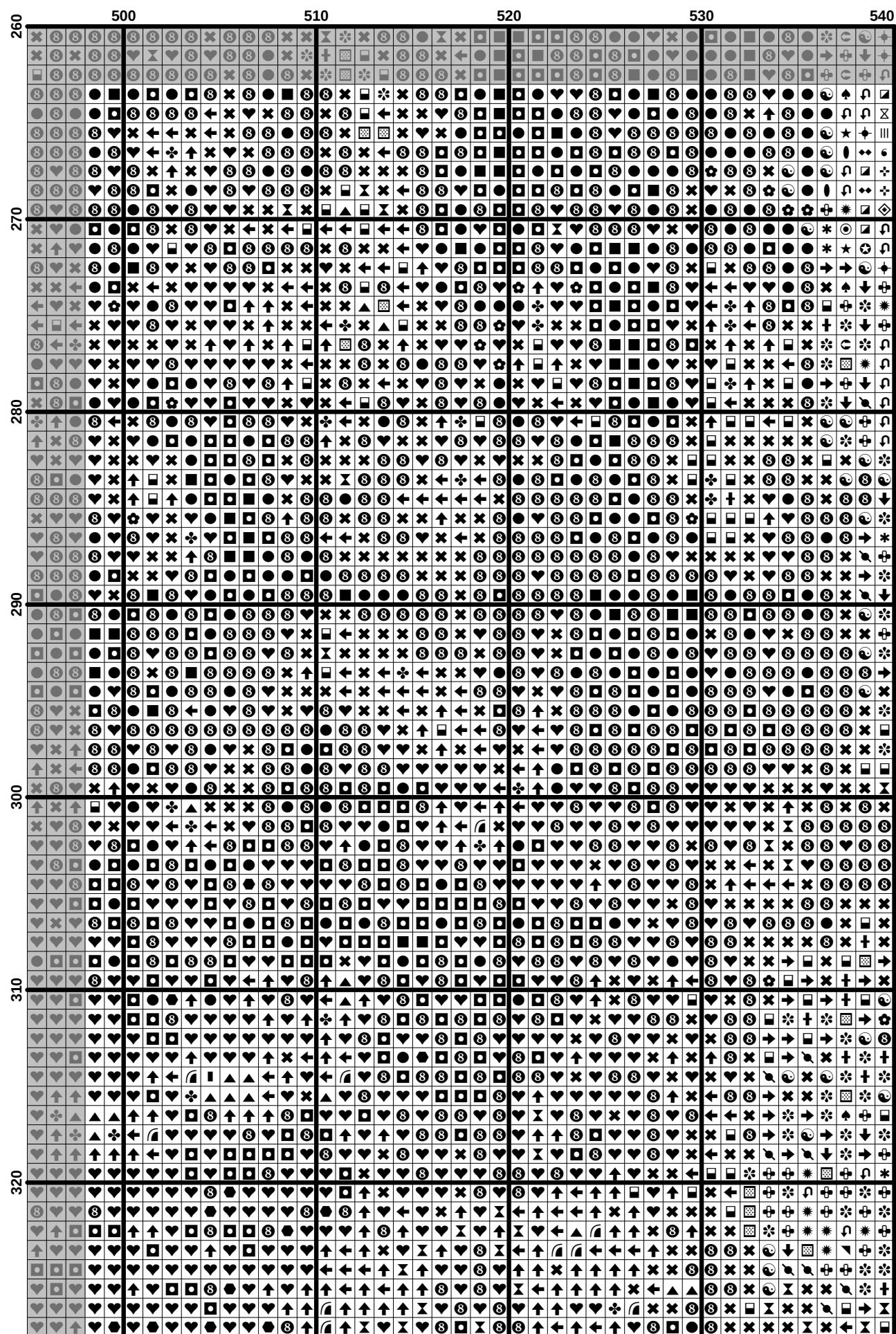


	320										330										340										350										360																			
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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

