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1206 Hylas and the Nymphs



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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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Hylas and the Nymphs

		Stitch Count				Recommended Fabric Color	
		Horizontal:	600			Antique White	
		Vertical:	376				

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:	109	42.75	69	26.83	95	37.4	60	23.48	85	33.25	54	20.875
Including Margins:	125	49	85	33	111	44	76	30	101	40	70	27
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	152	59.85	96	37.56	127	49.87	80	31.3	63	24.93	40	15.65
Including Margins:	168	66	112	44	143	56	96	38	79	31	56	22
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	61	23.94	38	15.02	58	23.01	37	14.44	56	22.16	35	13.91
Including Margins:	77	30	54	22	74	30	53	21	72	29	51	20
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	54	21.37	34	13.41	50	19.95	32	12.52	47	18.7	30	11.73
Including Margins:	70	28	50	20	66	26	48	19	63	25	46	18

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
≡	317	Pewter Gray
◆	367	Pistachio Green-DK
⊙	371	Mustard
↑	407	Desert Sand-DK
↖	413	Pewter Gray -DK
↗	420	Hazelnut Brown-DK
□	437	Tan-LT
↔	444	Lemon-DK
∇	471	Avocado Green-VY LT
←	520	Fern Green-DK
↘	522	Fern Green
◇	543	Beige Brown-UL VY LT
×	581	Moss Green
⊕	611	Drab Brown
⊖	613	Drab Brown-VY LT
+	632	Desert Sand-UL VY DK
..	642	Beige Gray-DK
▴	645	Beaver Gray-VY DK
=	676	Old Gold-LT
⊥	677	Old Gold-VY LT
⌘	680	Old Gold-DK
∩	712	Cream
∪	725	Topaz
⊂	729	Old Gold- MD
⊕	730	Olive Green-VY DK
⊖	732	Olive Green
⊗	734	Olive Green-LT
♡	739	Tan-UL VY LT
1	746	Off White
■	830	Golden Olive-DK
◇	832	Golden Olive
⊕	833	Golden Olive-LT
9	834	Golden Olive-VY LT

→	839	Beige Brown-DK
⊂	869	Hazelnut Brown-VY DK
⊙	900	Burnt Orange-DK
⋈	926	Gray Green-MD
::	927	Gray Green-LT
⊖	931	Antique Blue-MD
■	934	Black Avocado Green
♥	935	Avocado Green-DK
⊙	936	Avocado Green-VY DK
▲	937	Avocado Green-MD
●	938	Coffee Brown-UL DK
.	951	Tawny -LT
c	972	Canary-DK
↖	3012	Khaki Green-MD
7	3013	Khaki Green-LT
Δ	3045	Yellow Beige-DK
+	3046	Yellow Beige-MD
♣	3052	Green Gray-MD
H	3053	Green Gray
^	3078	Golden Yellow -VY LT
▲	3346	Hunter Green
∩	3347	Yellow Green-MD
◇	3348	Yellow Green-LT
▲	3362	Pine Green-DK
⊗	3363	Pine Green-MD
⊕	3364	Pine Green
●	3768	Gray Green-DK
△	3770	Tawny -VY LT
⊖	3787	Brown Gray -DK
∩	3823	Yellow -UL Pale
#	3828	Hazelnut Brown
⊕	3829	Old Gold-VY DK
♣	3852	Straw -VY DK
>	3855	Autumn Gold-LT
☆	3864	Mocha Beige-LT
u	3865	Winter White

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches .				
Symbol	DMC1	Name1	DMC2	Name2
//	317	Pewter Gray	931	Antique Blue-MD
▲	927	Gray Green-LT	931	Antique Blue-MD
▼	839	Beige Brown-DK	3787	Brown Gray -DK
⊙	938	Coffee Brown-UL DK	3799	Pewter Gray -VY DK
«	746	Off White	3823	Yellow -UL Pale
⊗	3363	Pine Green-MD	3787	Brown Gray -DK
♣	926	Gray Green-MD	503	Blue Green-MD
★	645	Beaver Gray-VY DK	926	Gray Green-MD
↑	951	Tawny -LT	3823	Yellow -UL Pale
◇	611	Drab Brown	3862	Mocha Beige-DK
♣	935	Avocado Green-DK	936	Avocado Green-VY DK
■	934	Black Avocado Green	938	Coffee Brown-UL DK
7	677	Old Gold-VY LT	3855	Autumn Gold-LT
5	613	Drab Brown-VY LT	3864	Mocha Beige-LT

☐	3347	Yellow Green-MD	3363	Pine Green-MD
■	937	Avocado Green-MD	3346	Hunter Green
z	371	Mustard	3772	Desert Sand-VY DK
✕	520	Fern Green-DK	3799	Pewter Gray -VY DK
☼	935	Avocado Green-DK	938	Coffee Brown-UL DK
⚓	613	Drab Brown-VY LT	945	Tawny
⌘	356	Terra Cotta-MD	371	Mustard
⌘	3362	Pine Green-DK	3363	Pine Green-MD
■	300	Mahogany-VY DK	632	Desert Sand-UL VY DK
∅	611	Drab Brown	3772	Desert Sand-VY DK
†	832	Golden Olive	833	Golden Olive-LT
⌘	300	Mahogany-VY DK	730	Olive Green-VY DK
◆	520	Fern Green-DK	935	Avocado Green-DK
*	3346	Hunter Green	3787	Brown Gray -DK
♣	520	Fern Green-DK	909	Emerald Green-VY DK
✦	611	Drab Brown	3052	Green Gray-MD
α	437	Tan-LT	3046	Yellow Beige-MD
✦	900	Burnt Orange-DK	3830	Terra Cotta-MD
⚙	611	Drab Brown	632	Desert Sand-UL VY DK
⇒	613	Drab Brown-VY LT	739	Tan-UL VY LT
↓	730	Olive Green-VY DK	938	Coffee Brown-UL DK
∨	676	Old Gold-LT	3855	Autumn Gold-LT
⌘	833	Golden Olive-LT	3829	Old Gold-VY DK
○	613	Drab Brown-VY LT	369	Pistachio Green-VY LT
⊙	830	Golden Olive-DK	839	Beige Brown-DK
◀	830	Golden Olive-DK	3862	Mocha Beige-DK
✂	839	Beige Brown-DK	3346	Hunter Green
✂	420	Hazelnut Brown-DK	611	Drab Brown
☾	830	Golden Olive-DK	3346	Hunter Green
♠	317	Pewter Gray	3768	Gray Green-DK
⊙	936	Avocado Green-VY DK	938	Coffee Brown-UL DK
☾	936	Avocado Green-VY DK	937	Avocado Green-MD
●	934	Black Avocado Green	935	Avocado Green-DK
✦	420	Hazelnut Brown-DK	3830	Terra Cotta-MD
≈	437	Tan-LT	3778	Terra Cotta-LT
▷	420	Hazelnut Brown-DK	680	Old Gold-DK
L	3046	Yellow Beige-MD	3855	Autumn Gold-LT
☾	611	Drab Brown	3346	Hunter Green
▨	830	Golden Olive-DK	937	Avocado Green-MD
☼	356	Terra Cotta-MD	900	Burnt Orange-DK
✂	830	Golden Olive-DK	581	Moss Green
✂	611	Drab Brown	869	Hazelnut Brown-VY DK
▲	611	Drab Brown	830	Golden Olive-DK
☾	413	Pewter Gray -DK	3787	Brown Gray -DK
↑	3768	Gray Green-DK	3799	Pewter Gray -VY DK
)	369	Pistachio Green-VY LT	822	Beige Gray-LT
○	420	Hazelnut Brown-DK	869	Hazelnut Brown-VY DK
◊	725	Topaz	729	Old Gold-MD
<	677	Old Gold-VY LT	945	Tawny
☾	3363	Pine Green-MD	3364	Pine Green
■	367	Pistachio Green-DK	3362	Pine Green-DK
L	367	Pistachio Green-DK	3363	Pine Green-MD
⌘	437	Tan-LT	3825	Pumpkin-Pale
T	522	Fern Green	3052	Green Gray-MD
⌘	611	Drab Brown	371	Mustard
✕	3787	Brown Gray -DK	3862	Mocha Beige-DK
✂	611	Drab Brown	832	Golden Olive
☼	581	Moss Green	732	Olive Green
●	732	Olive Green	830	Golden Olive-DK

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☼	471	Avocado Green-VY LT	3012	Khaki Green-MD
✱	3346	Hunter Green	3347	Yellow Green-MD
☼	730	Olive Green-VY DK	830	Golden Olive-DK
☼	581	Moss Green	833	Golden Olive-LT
	704	Chartreuse-BRT	3045	Yellow Beige-DK
2	371	Mustard	704	Chartreuse-BRT
H	832	Golden Olive	869	Hazelnut Brown-VY DK
↓	937	Avocado Green-MD	3781	Mocha Brown-DK
⦿	520	Fern Green-DK	839	Beige Brown-DK
►	645	Beaver Gray-VY DK	3768	Gray Green-DK
◀	611	Drab Brown	3829	Old Gold-VY DK
≈	3829	Old Gold-VY DK	3852	Straw -VY DK
?	729	Old Gold-MD	3820	Straw -DK
✓	680	Old Gold-DK	729	Old Gold-MD
✕	869	Hazelnut Brown-VY DK	680	Old Gold-DK
‡	680	Old Gold-DK	922	Copper-LT
⦿	680	Old Gold-DK	3826	Golden Brown
◇	729	Old Gold-MD	922	Copper-LT
4	725	Topaz	834	Golden Olive-VY LT
β	834	Golden Olive-VY LT	676	Old Gold-LT
☼	833	Golden Olive-LT	3852	Straw -VY DK
□	3078	Golden Yellow -VY LT	3855	Autumn Gold-LT
▷	3046	Yellow Beige-MD	3078	Golden Yellow -VY LT
	677	Old Gold-VY LT	951	Tawny-LT
⦿	676	Old Gold-LT	3046	Yellow Beige-MD
⦿	503	Blue Green-MD	522	Fern Green
☼	503	Blue Green-MD	931	Antique Blue-MD
◁	648	Beaver Gray-LT	927	Gray Green-LT
☾	931	Antique Blue-MD	3765	Peacock Blue-VY DK
3	927	Gray Green-LT	3747	Blue Violet-VY LT
▲	931	Antique Blue-MD	3768	Gray Green-DK
♣	520	Fern Green-DK	3768	Gray Green-DK
♣	926	Gray Green-MD	367	Pistachio Green-DK
✱	317	Pewter Gray	367	Pistachio Green-DK
✱	221	Shell Pink-VY DK	3830	Terra Cotta-MD
φ	3765	Peacock Blue-VY DK	3768	Gray Green-DK
◦	746	Off White	822	Beige Gray-LT
(822	Beige Gray-LT	3823	Yellow -UL Pale
e	3046	Yellow Beige-MD	3013	Khaki Green-LT
▼	611	Drab Brown	3787	Brown Gray -DK
✕	407	Desert Sand-DK	371	Mustard
✓	522	Fern Green	3364	Pine Green
‡	471	Avocado Green-VY LT	3347	Yellow Green-MD
	371	Mustard	3364	Pine Green
∞	746	Off White	369	Pistachio Green-VY LT
⦿	471	Avocado Green-VY LT	3348	Yellow Green-LT
○	833	Golden Olive-LT	3828	Hazelnut Brown
△	648	Beaver Gray-LT	543	Beige Brown+UL VY LT
◁	3829	Old Gold-VY DK	907	Parrot Green-LT
—	907	Parrot Green-LT	833	Golden Olive-LT
⦿	3013	Khaki Green-LT	3078	Golden Yellow -VY LT
⦿	3347	Yellow Green-MD	581	Moss Green
✓	3852	Straw -VY DK	972	Canary-DK
☼	581	Moss Green	3829	Old Gold-VY DK
m	444	Lemon-DK	3347	Yellow Green-MD
/	648	Beaver Gray-LT	3348	Yellow Green-LT
☼	3053	Green Gray	3348	Yellow Green-LT
†	937	Avocado Green-MD	3362	Pine Green-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	
221	Shell Pink-VY DK	6	2	6	2	5	1
300	Mahogany-VY DK	224	88	214	84	192	75
317	Pewter Gray	247	97	235	92	212	83
356	Terra Cotta-MD	34	13	32	12	29	11
367	Pistachio Green-DK	975	383	929	365	836	329
369	Pistachio Green-VY LT	82	32	79	31	71	27
371	Mustard	978	385	931	366	838	329
407	Desert Sand-DK	57	22	55	21	49	19
413	Pewter Gray -DK	184	72	175	68	158	62
420	Hazelnut Brown-DK	703	276	669	263	602	237
437	Tan-LT	227	89	216	85	194	76
444	Lemon-DK	54	21	51	20	46	18
471	Avocado Green-VY LT	855	336	814	320	733	288
503	Blue Green-MD	222	87	211	83	190	74
520	Fern Green-DK	3255	1281	3100	1220	2790	1098
522	Fern Green	437	172	416	163	375	147
543	Beige Brown-UL VY LT	76	29	72	28	65	25
581	Moss Green	1192	469	1136	447	1022	402
611	Drab Brown	3426	1348	3263	1284	2936	1155
613	Drab Brown-VY LT	279	109	266	104	239	94
632	Desert Sand-UL VY DK	226	88	215	84	193	75
642	Beige Gray-DK	100	39	95	37	86	33
645	Beaver Gray-VY DK	221	87	210	82	189	74
648	Beaver Gray-LT	137	53	130	51	117	46
676	Old Gold-LT	265	104	253	99	227	89
677	Old Gold-VY LT	426	167	406	159	365	143
680	Old Gold-DK	373	146	356	140	320	125
704	Chartreuse-BRT	353	138	336	132	303	119
712	Cream	30	11	29	11	26	10
725	Topaz	142	55	135	53	122	48
729	Old Gold- MD	351	138	334	131	301	118
730	Olive Green-VY DK	1335	525	1271	500	1144	450
732	Olive Green	499	196	475	187	428	168
734	Olive Green-LT	239	94	227	89	204	80
739	Tan-UL VY LT	244	96	232	91	209	82
746	Off White	972	382	925	364	833	327
822	Beige Gray-LT	174	68	166	65	149	58
830	Golden Olive-DK	3569	1405	3399	1338	3059	1204
832	Golden Olive	622	244	592	233	533	209
833	Golden Olive-LT	673	264	641	252	576	226
834	Golden Olive-VY LT	306	120	292	114	262	103
839	Beige Brown-DK	2455	966	2338	920	2104	828
869	Hazelnut Brown-VY DK	899	353	857	337	771	303
900	Burnt Orange-DK	47	18	45	17	40	15
907	Parrot Green-LT	151	59	144	56	129	50
909	Emerald Green-VY DK	72	28	69	27	62	24
922	Copper-LT	15	5	15	5	13	5
926	Gray Green-MD	379	149	361	142	325	127
927	Gray Green-LT	210	82	200	78	180	70
931	Antique Blue-MD	506	199	482	189	434	170
934	Black Avocado Green	1126	443	1072	422	965	379
935	Avocado Green-DK	1971	775	1877	738	1690	665
936	Avocado Green-VY DK	1838	723	1750	688	1575	620
937	Avocado Green-MD	2530	996	2410	948	2169	853

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938	Coffee Brown-UL DK	2421	953	2305	907	2075	816
945	Tawny	136	53	129	50	116	45
951	Tawny-LT	223	87	212	83	191	75
972	Canary-DK	19	7	18	7	17	6
3012	Khaki Green-MD	1483	583	1412	555	1271	500
3013	Khaki Green-LT	452	177	430	169	387	152
3045	Yellow Beige-DK	376	148	358	140	322	126
3046	Yellow Beige-MD	544	214	518	203	466	183
3052	Green Gray-MD	1080	425	1029	405	926	364
3053	Green Gray	249	98	237	93	213	83
3078	Golden Yellow-VY LT	479	188	456	179	411	161
3346	Hunter Green	4571	1799	4353	1713	3918	1542
3347	Yellow Green-MD	1074	422	1023	402	921	362
3348	Yellow Green-LT	285	112	272	107	244	96
3362	Pine Green-DK	2683	1056	2555	1005	2299	905
3363	Pine Green-MD	2269	893	2161	850	1945	765
3364	Pine Green	971	382	925	364	832	327
3747	Blue Violet-VY LT	10	3	9	3	8	3
3765	Peacock Blue-VY DK	25	9	24	9	22	8
3768	Gray Green-DK	613	241	584	229	525	206
3770	Tawny-VY LT	81	31	77	30	69	27
3772	Desert Sand-VY DK	101	39	96	37	86	33
3778	Terra Cotta-LT	15	5	14	5	12	4
3781	Mocha Brown-DK	796	313	758	298	682	268
3787	Brown Gray -DK	1853	729	1764	694	1588	625
3799	Pewter Gray-VY DK	593	233	565	222	509	200
3820	Straw-DK	68	26	65	25	58	22
3823	Yellow-UL Pale	1054	414	1004	395	904	355
3825	Pumpkin-Pale	18	7	17	6	16	6
3826	Golden Brown	12	4	12	4	11	4
3828	Hazelnut Brown	238	93	227	89	204	80
3829	Old Gold-VY DK	666	262	634	249	571	224
3830	Terra Cotta-MD	34	13	33	12	29	11
3852	Straw-VY DK	164	64	156	61	141	55
3855	Autumn Gold-LT	245	96	233	91	210	82
3862	Mocha Beige-DK	536	211	510	200	459	180
3864	Mocha Beige-LT	109	42	104	40	93	36
3865	Winter White	107	42	102	40	92	36

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	9	2	8	2	4	1
300	Mahogany-VY DK	346	135	288	113	144	56
317	Pewter Gray	382	149	318	125	159	62
356	Terra Cotta-MD	52	20	44	17	22	8
367	Pistachio Green-DK	1505	592	1254	494	627	247
369	Pistachio Green-VY LT	128	49	107	41	53	20
371	Mustard	1508	592	1257	494	629	247
407	Desert Sand-DK	88	34	74	29	37	14
413	Pewter Gray -DK	284	112	237	93	119	47
420	Hazelnut Brown-DK	1084	427	903	356	452	178
437	Tan-LT	349	137	291	114	146	57
444	Lemon-DK	83	32	69	27	35	14
471	Avocado Green-VY LT	1319	518	1100	432	550	216
503	Blue Green-MD	342	133	285	111	143	56

520	Fern Green-DK	5022	1976	4185	1647	2093	824
522	Fern Green	675	265	563	221	281	110
543	Beige Brown-UL VY LT	117	45	98	38	49	19
581	Moss Green	1840	724	1533	603	767	302
611	Drab Brown	5285	2079	4404	1733	2202	866
613	Drab Brown-VY LT	430	169	359	141	179	71
632	Desert Sand-UL VY DK	347	135	290	113	145	56
642	Beige Gray-DK	155	59	129	50	65	25
645	Beaver Gray-VY DK	340	133	284	111	142	56
648	Beaver Gray-LT	211	83	176	69	88	35
676	Old Gold-LT	409	160	341	134	170	67
677	Old Gold-VY LT	657	257	548	215	274	107
680	Old Gold-DK	576	225	480	188	240	94
704	Chartreuse-BRT	545	214	455	179	227	89
712	Cream	47	18	39	15	20	8
725	Topaz	220	86	183	72	92	36
729	Old Gold-MD	542	212	452	177	226	89
730	Olive Green-VY DK	2059	810	1716	675	858	338
732	Olive Green	770	302	642	252	321	126
734	Olive Green-LT	367	144	306	120	153	60
739	Tan-UL VY LT	376	148	314	123	157	62
746	Off White	1499	589	1250	491	625	245
822	Beige Gray-LT	268	104	224	87	112	44
830	Golden Olive-DK	5506	2167	4589	1806	2294	903
832	Golden Olive	959	376	800	314	400	157
833	Golden Olive-LT	1037	407	864	339	432	170
834	Golden Olive-VY LT	472	185	393	155	197	77
839	Beige Brown-DK	3787	1490	3156	1242	1578	621
869	Hazelnut Brown-VY DK	1388	545	1157	455	578	227
900	Burnt Orange-DK	72	27	60	23	30	11
907	Parrot Green-LT	232	90	194	75	97	38
909	Emerald Green-VY DK	112	43	93	36	47	18
922	Copper-LT	23	9	20	8	10	4
926	Gray Green-MD	585	229	488	191	244	95
927	Gray Green-LT	324	126	270	105	135	53
931	Antique Blue-MD	781	306	651	255	326	128
934	Black Avocado Green	1737	682	1448	569	724	284
935	Avocado Green-DK	3042	1197	2535	998	1268	499
936	Avocado Green-VY DK	2835	1116	2363	930	1181	465
937	Avocado Green-MD	3904	1535	3254	1280	1627	640
938	Coffee Brown-UL DK	3735	1469	3113	1224	1556	612
945	Tawny	209	81	174	68	87	34
951	Tawny-LT	344	135	287	113	143	56
972	Canary-DK	31	11	26	9	13	5
3012	Khaki Green-MD	2288	900	1907	750	953	375
3013	Khaki Green-LT	697	274	581	228	290	114
3045	Yellow Beige-DK	580	227	483	189	242	95
3046	Yellow Beige-MD	839	329	699	275	350	137
3052	Green Gray-MD	1667	655	1389	546	695	273
3053	Green Gray	383	149	320	125	160	62
3078	Golden Yellow-VY LT	740	290	617	242	308	121
3346	Hunter Green	7052	2776	5877	2313	2939	1157
3347	Yellow Green-MD	1658	652	1382	543	691	272
3348	Yellow Green-LT	439	173	366	144	183	72
3362	Pine Green-DK	4138	1629	3449	1358	1724	679
3363	Pine Green-MD	3501	1377	2918	1148	1459	574
3364	Pine Green	1498	589	1248	491	624	245
3747	Blue Violet-VY LT	14	5	12	5	6	2
3765	Peacock Blue-VY DK	40	14	33	12	17	6

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3768	Gray Green-DK	945	371	788	309	394	155
3770	Tawny-VY LT	124	49	104	41	52	20
3772	Desert Sand-VY DK	155	59	129	50	65	25
3778	Terra Cotta-LT	22	7	18	6	9	3
3781	Mocha Brown-DK	1228	482	1023	402	512	201
3787	Brown Gray-DK	2858	1125	2382	938	1191	469
3799	Pewter Gray-VY DK	916	360	764	300	382	150
3820	Straw -DK	104	40	87	33	44	17
3823	Yellow -UL Pale	1627	639	1356	533	678	266
3825	Pumpkin-Pale	29	11	24	9	12	5
3826	Golden Brown	20	7	17	6	8	3
3828	Hazelnut Brown	367	144	306	120	153	60
3829	Old Gold-VY DK	1028	403	857	336	428	168
3830	Terra Cotta-MD	52	20	44	17	22	8
3852	Straw-VY DK	254	99	212	83	106	41
3855	Autumn Gold-LT	378	148	315	123	158	62
3862	Mocha Beige-DK	826	324	689	270	344	135
3864	Mocha Beige-LT	167	65	140	54	70	27
3865	Winter White	166	65	138	54	69	27

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	4	1	3	1	3	1
300	Mahogany-VY DK	138	54	133	52	128	50
317	Pewter Gray	153	60	147	57	141	55
356	Terra Cotta-MD	21	8	20	8	19	7
367	Pistachio Green-DK	602	237	579	228	557	219
369	Pistachio Green-VY LT	51	19	49	19	47	18
371	Mustard	603	237	580	228	559	219
407	Desert Sand-DK	35	14	34	13	33	13
413	Pewter Gray-DK	114	45	109	43	105	41
420	Hazelnut Brown-DK	433	171	417	164	401	158
437	Tan-LT	140	55	134	53	129	51
444	Lemon-DK	33	13	32	12	31	12
471	Avocado Green-VY LT	528	207	507	199	489	192
503	Blue Green-MD	137	53	132	51	127	49
520	Fern Green-DK	2009	791	1932	760	1860	732
522	Fern Green	270	106	260	102	250	98
543	Beige Brown-UL VY LT	47	18	45	17	43	17
581	Moss Green	736	289	708	278	681	268
611	Drab Brown	2114	832	2033	800	1957	770
613	Drab Brown-VY LT	172	68	165	65	159	63
632	Desert Sand-UL VY DK	139	54	134	52	129	50
642	Beige Gray-DK	62	24	60	23	57	22
645	Beaver Gray-VY DK	136	53	131	51	126	49
648	Beaver Gray-LT	84	33	81	32	78	31
676	Old Gold-LT	163	64	157	62	151	59
677	Old Gold-VY LT	263	103	253	99	243	95
680	Old Gold-DK	230	90	222	87	213	83
704	Chartreuse-BRT	218	86	210	82	202	79
712	Cream	19	7	18	7	17	7
725	Topaz	88	35	84	33	81	32
729	Old Gold- MD	217	85	208	82	201	79
730	Olive Green-VY DK	824	324	792	312	763	300
732	Olive Green	308	121	296	116	285	112

734	Olive Green-LT	147	58	141	55	136	53
739	Tan-UL VY LT	150	59	145	57	139	55
746	Off White	600	235	577	226	555	218
822	Beige Gray-LT	107	42	103	40	99	39
830	Golden Olive-DK	2202	867	2118	834	2039	803
832	Golden Olive	384	150	369	145	355	139
833	Golden Olive-LT	415	163	399	156	384	151
834	Golden Olive-VY LT	189	74	181	71	175	69
839	Beige Brown-DK	1515	596	1457	573	1403	552
869	Hazelnut Brown-VY DK	555	218	534	210	514	202
900	Burnt Orange-DK	29	11	28	10	27	10
907	Parrot Green-LT	93	36	89	35	86	33
909	Emerald Green-VY DK	45	17	43	17	41	16
922	Copper-LT	9	4	9	3	9	3
926	Gray Green-MD	234	91	225	88	217	85
927	Gray Green-LT	130	50	125	48	120	47
931	Antique Blue-MD	312	122	300	118	289	113
934	Black Avocado Green	695	273	668	262	643	253
935	Avocado Green-DK	1217	479	1170	460	1127	443
936	Avocado Green-VY DK	1134	446	1090	429	1050	413
937	Avocado Green-MD	1562	614	1502	591	1446	569
938	Coffee Brown-UL DK	1494	588	1437	565	1383	544
945	Tawny	84	32	80	31	77	30
951	Tawny-LT	138	54	132	52	127	50
972	Canary-DK	12	4	12	4	11	4
3012	Khaki Green-MD	915	360	880	346	847	333
3013	Khaki Green-LT	279	109	268	105	258	101
3045	Yellow Beige-DK	232	91	223	87	215	84
3046	Yellow Beige-MD	336	132	323	127	311	122
3052	Green Gray-MD	667	262	641	252	617	243
3053	Green Gray	153	60	147	57	142	55
3078	Golden Yellow-VY LT	296	116	285	111	274	107
3346	Hunter Green	2821	1110	2712	1068	2612	1028
3347	Yellow Green-MD	663	261	638	251	614	241
3348	Yellow Green-LT	176	69	169	66	163	64
3362	Pine Green-DK	1655	652	1592	627	1533	603
3363	Pine Green-MD	1400	551	1347	530	1297	510
3364	Pine Green	599	235	576	226	555	218
3747	Blue Violet-VY LT	6	2	6	2	5	2
3765	Peacock Blue-VY DK	16	6	15	6	15	5
3768	Gray Green-DK	378	148	363	143	350	137
3770	Tawny-VY LT	50	19	48	19	46	18
3772	Desert Sand-VY DK	62	24	60	23	57	22
3778	Terra Cotta-LT	9	3	8	3	8	3
3781	Mocha Brown-DK	491	193	472	186	455	179
3787	Brown Gray -DK	1143	450	1099	433	1059	417
3799	Pewter Gray-VY DK	366	144	352	138	339	133
3820	Straw-DK	42	16	40	15	39	15
3823	Yellow-UL Pale	651	256	626	246	603	237
3825	Pumpkin-Pale	12	4	11	4	11	4
3826	Golden Brown	8	3	8	3	7	3
3828	Hazelnut Brown	147	58	141	55	136	53
3829	Old Gold-VY DK	411	161	395	155	381	149
3830	Terra Cotta-MD	21	8	20	8	19	7
3852	Straw-VY DK	102	40	98	38	94	37
3855	Autumn Gold-LT	151	59	145	57	140	55
3862	Mocha Beige-DK	330	130	318	125	306	120
3864	Mocha Beige-LT	67	26	64	25	62	24
3865	Winter White	66	26	64	25	61	24

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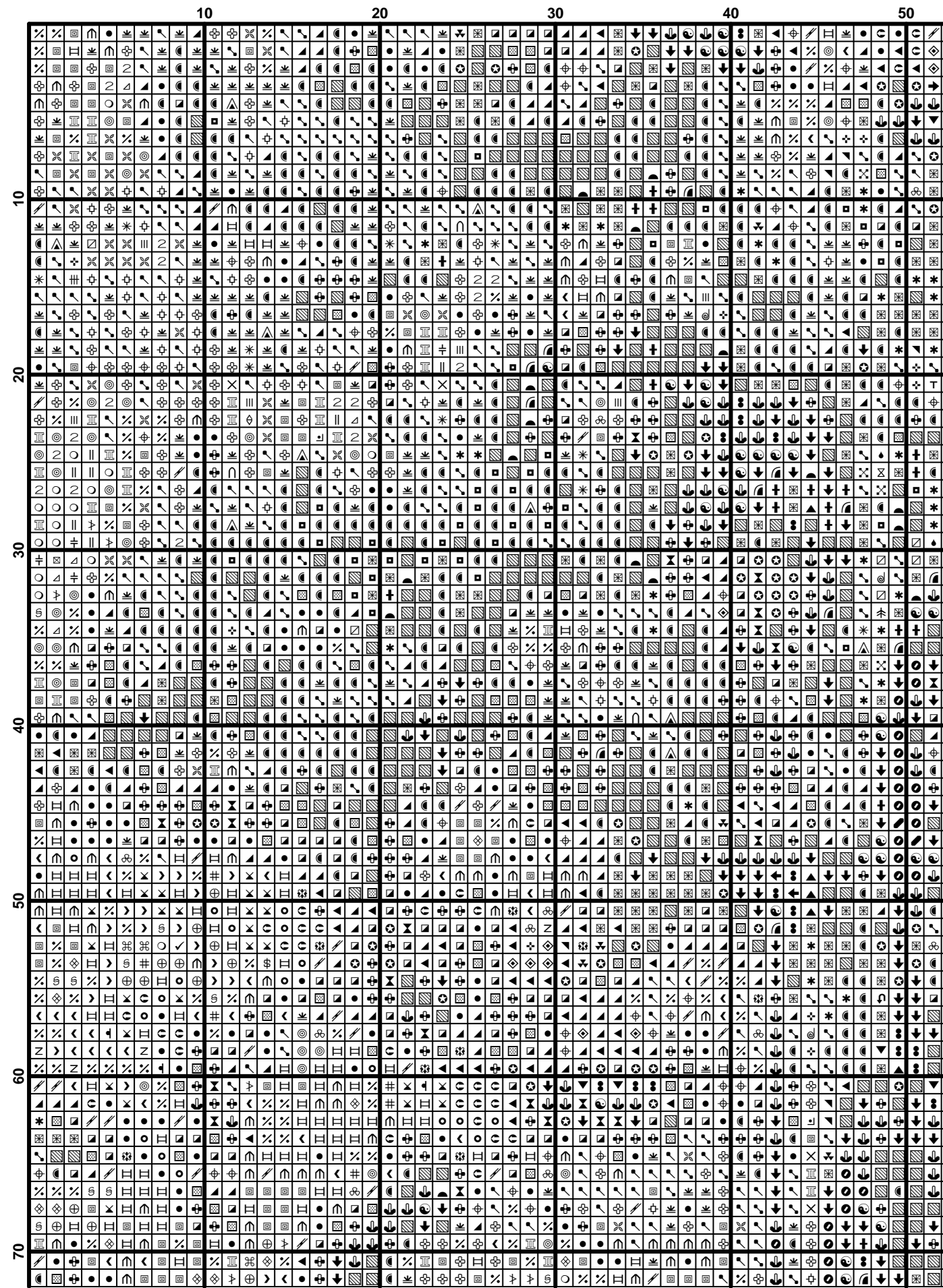
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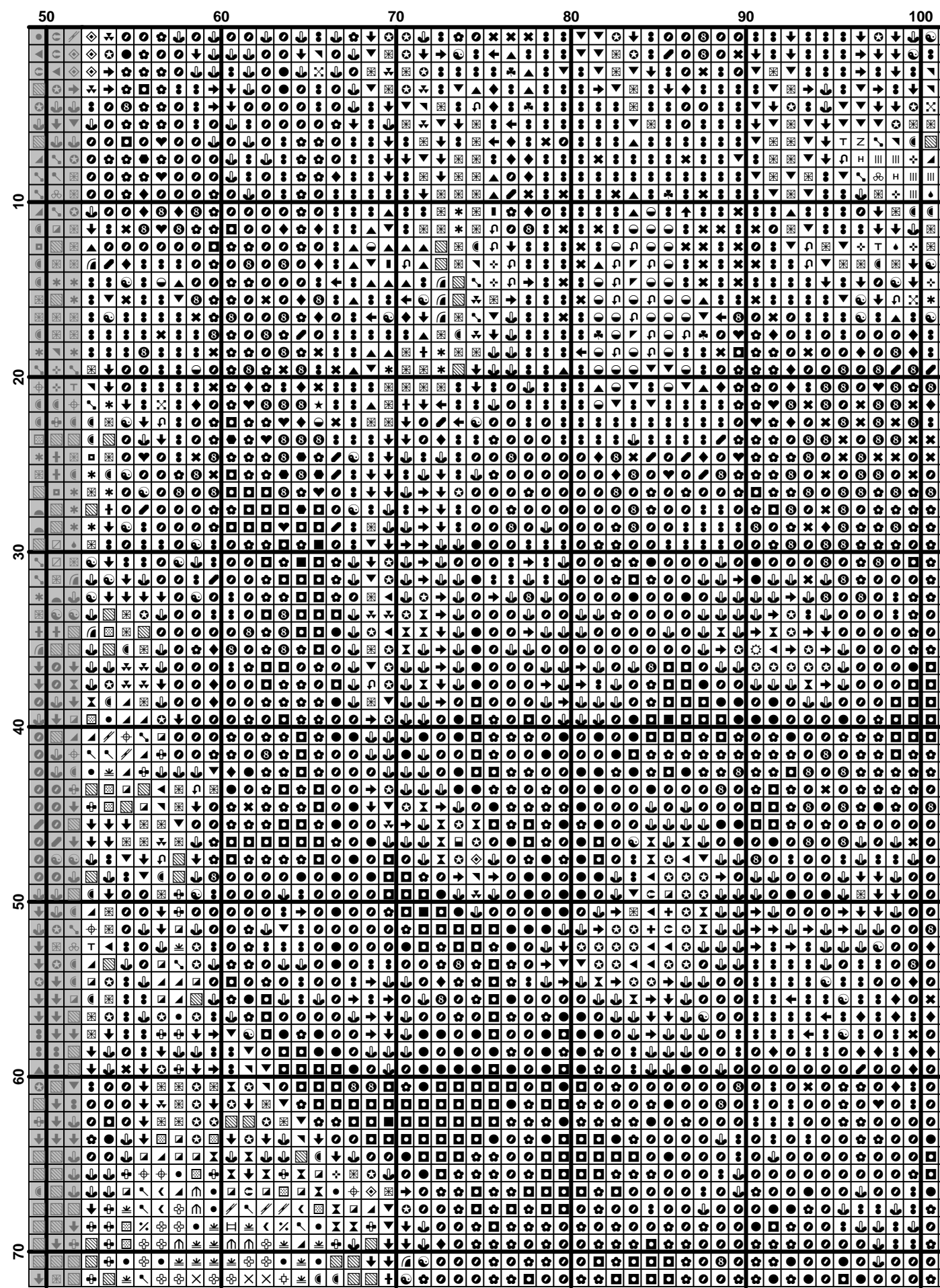
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	3	1	3	1	3	1
300	Mahogany-VY DK	123	48	115	45	108	42
317	Pewter Gray	136	53	127	50	119	47
356	Terra Cotta-MD	19	7	17	7	16	6
367	Pistachio Green-DK	537	212	502	197	470	185
369	Pistachio Green-VY LT	46	17	43	16	40	15
371	Mustard	539	212	503	197	471	185
407	Desert Sand-DK	32	12	29	11	28	11
413	Pewter Gray -DK	102	40	95	37	89	35
420	Hazelnut Brown-DK	387	152	361	142	339	133
437	Tan-LT	125	49	116	46	109	43
444	Lemon-DK	30	12	28	11	26	10
471	Avocado Green-VY LT	471	185	440	173	412	162
503	Blue Green-MD	122	48	114	44	107	42
520	Fern Green-DK	1794	706	1674	659	1569	618
522	Fern Green	241	95	225	88	211	83
543	Beige Brown-UL VY LT	42	16	39	15	37	14
581	Moss Green	657	258	613	241	575	226
611	Drab Brown	1887	743	1762	693	1652	650
613	Drab Brown-VY LT	154	60	143	56	134	53
632	Desert Sand-UL VY DK	124	48	116	45	109	42
642	Beige Gray-DK	55	21	52	20	48	19
645	Beaver Gray-VY DK	122	48	113	44	106	42
648	Beaver Gray-LT	75	30	70	28	66	26
676	Old Gold-LT	146	57	136	53	128	50
677	Old Gold-VY LT	235	92	219	86	205	80
680	Old Gold-DK	206	80	192	75	180	70
704	Chartreuse-BRT	195	77	182	71	170	67
712	Cream	17	6	16	6	15	6
725	Topaz	78	31	73	29	69	27
729	Old Gold- MD	194	76	181	71	169	66
730	Olive Green-VY DK	735	289	686	270	644	253
732	Olive Green	275	108	257	101	241	95
734	Olive Green-LT	131	51	122	48	115	45
739	Tan-UL VY LT	134	53	125	49	118	46
746	Off White	536	210	500	196	469	184
822	Beige Gray-LT	96	37	89	35	84	33
830	Golden Olive-DK	1967	774	1835	722	1721	677
832	Golden Olive	343	134	320	125	300	118
833	Golden Olive-LT	370	145	346	136	324	127
834	Golden Olive-VY LT	168	66	157	62	147	58
839	Beige Brown-DK	1353	532	1262	497	1184	466
869	Hazelnut Brown-VY DK	496	195	463	182	434	170
900	Burnt Orange-DK	26	10	24	9	23	8
907	Parrot Green-LT	83	32	77	30	73	28
909	Emerald Green-VY DK	40	15	37	14	35	14
922	Copper-LT	8	3	8	3	7	3
926	Gray Green-MD	209	82	195	76	183	71
927	Gray Green-LT	116	45	108	42	101	39
931	Antique Blue-MD	279	109	260	102	244	96
934	Black Avocado Green	620	244	579	227	543	213
935	Avocado Green-DK	1086	428	1014	399	951	374
936	Avocado Green-VY DK	1013	399	945	372	886	349

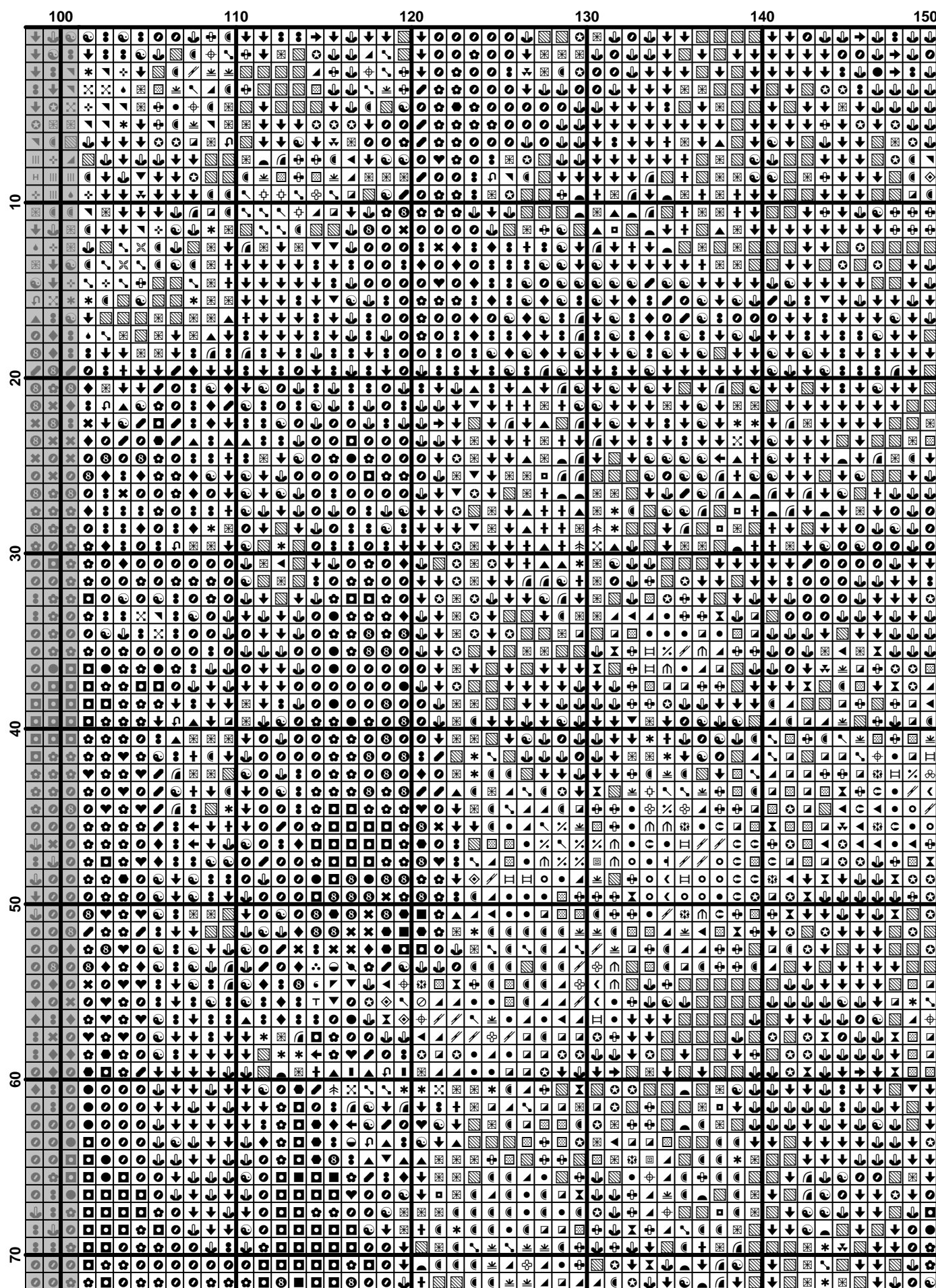
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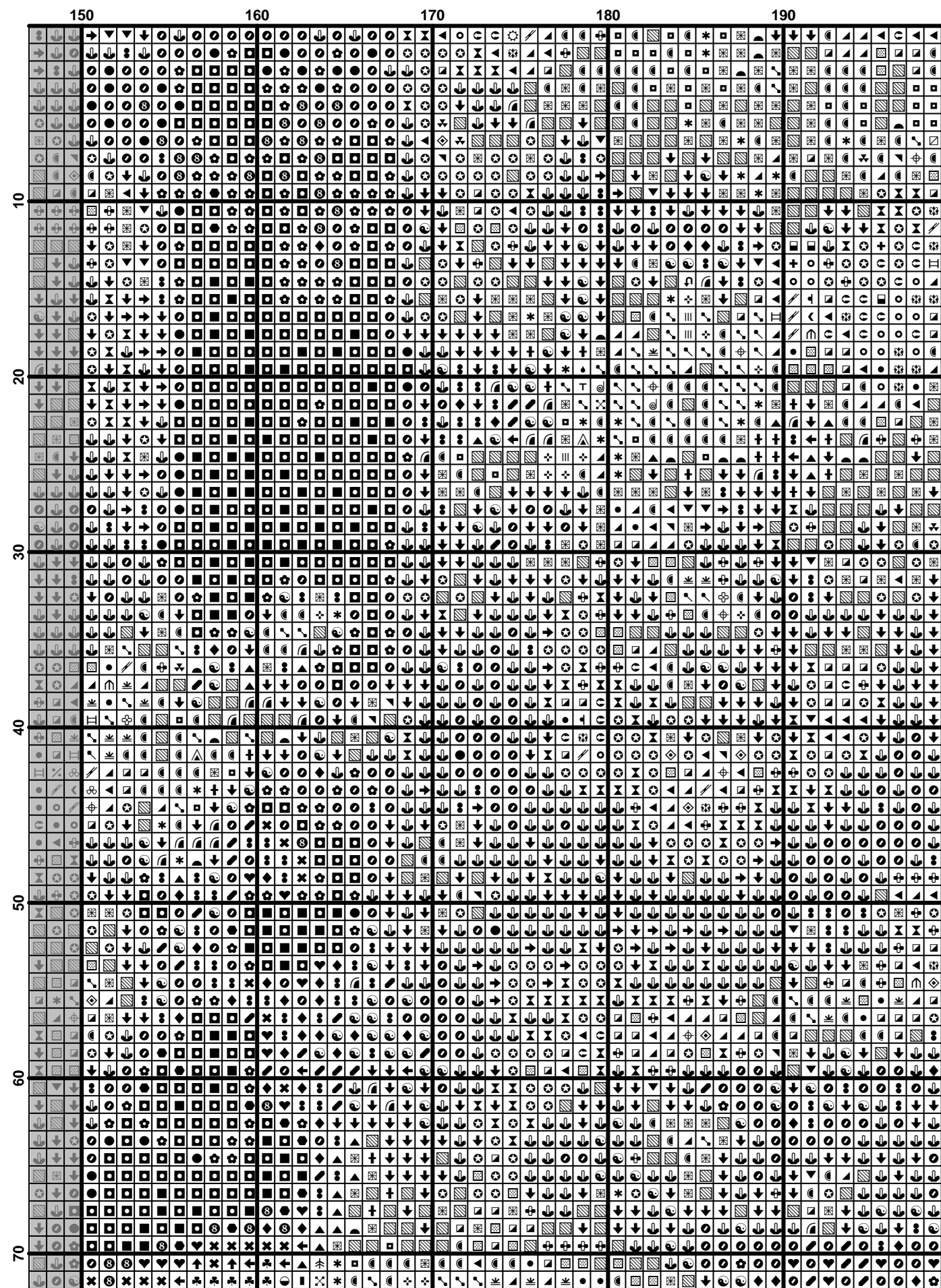
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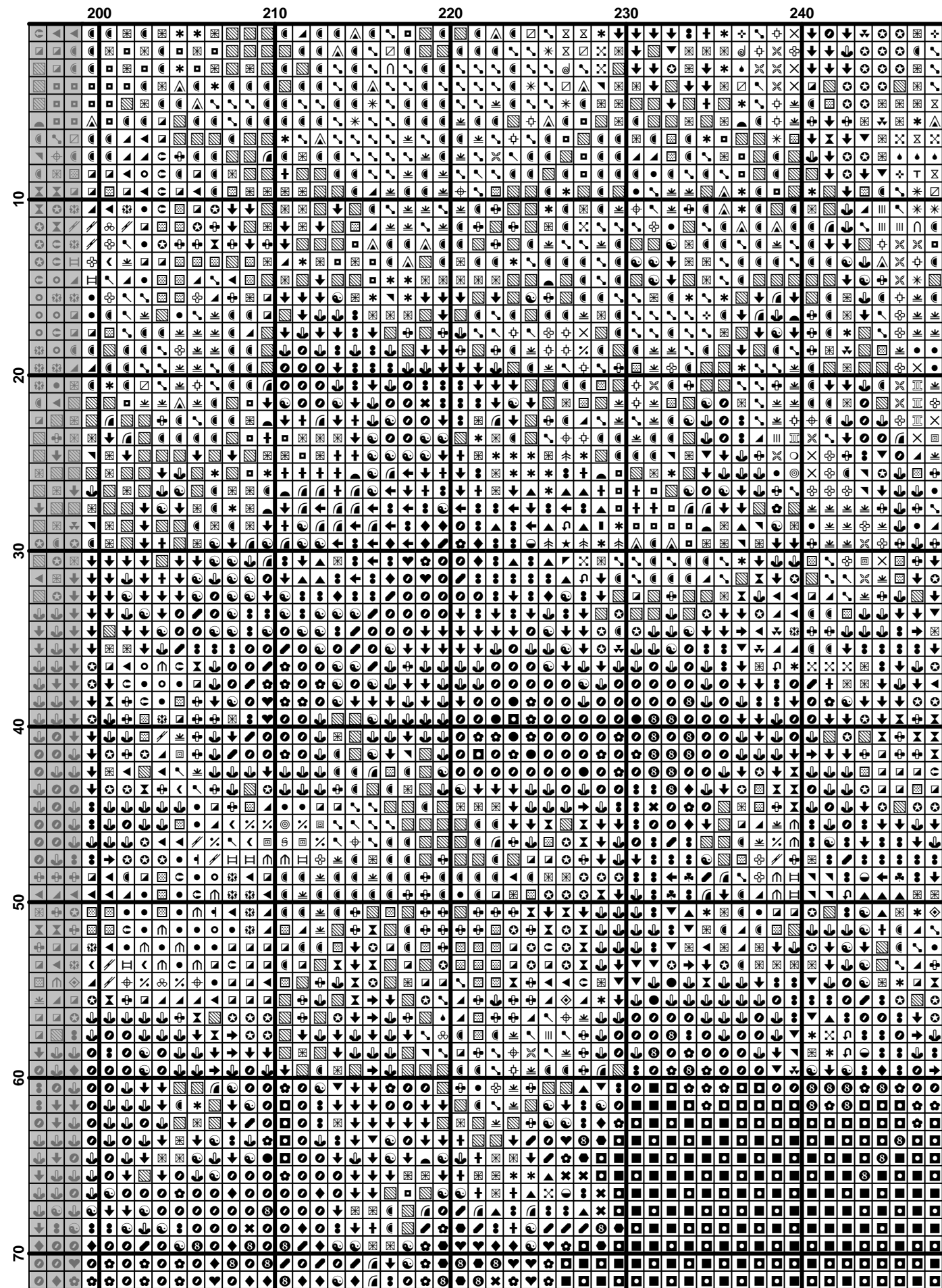
937	Avocado Green-MD	1394	548	1301	512	1220	480
938	Coffee Brown-UL DK	1334	525	1245	490	1167	459
945	Tawny	75	29	70	27	65	25
951	Tawny-LT	123	48	115	45	107	42
972	Canary-DK	11	4	10	4	10	3
3012	Khaki Green-MD	817	321	763	300	715	281
3013	Khaki Green-LT	249	98	232	91	218	86
3045	Yellow Beige-DK	207	81	193	76	181	71
3046	Yellow Beige-MD	300	118	280	110	262	103
3052	Green Gray-MD	595	234	556	218	521	205
3053	Green Gray	137	53	128	50	120	47
3078	Golden Yellow-VY LT	264	104	247	97	231	91
3346	Hunter Green	2519	991	2351	925	2204	867
3347	Yellow Green-MD	592	233	553	217	518	204
3348	Yellow Green-LT	157	62	146	58	137	54
3362	Pine Green-DK	1478	582	1379	543	1293	509
3363	Pine Green-MD	1250	492	1167	459	1094	430
3364	Pine Green	535	210	499	196	468	184
3747	Blue Violet-VY LT	5	2	5	2	5	2
3765	Peacock Blue-VY DK	14	5	13	5	12	5
3768	Gray Green-DK	338	132	315	124	295	116
3770	Tawny-VY LT	44	17	41	16	39	15
3772	Desert Sand-VY DK	55	21	52	20	48	19
3778	Terra Cotta-LT	8	3	7	2	7	2
3781	Mocha Brown-DK	438	172	409	161	384	151
3787	Brown Gray -DK	1021	402	953	375	893	352
3799	Pewter Gray-VY DK	327	129	305	120	286	113
3820	Straw -DK	37	14	35	13	33	12
3823	Yellow -UL Pale	581	228	542	213	509	200
3825	Pumpkin-Pale	10	4	10	4	9	3
3826	Golden Brown	7	3	7	2	6	2
3828	Hazelnut Brown	131	51	122	48	115	45
3829	Old Gold-VY DK	367	144	343	134	321	126
3830	Terra Cotta-MD	19	7	17	7	16	6
3852	Straw-VY DK	91	35	85	33	79	31
3855	Autumn Gold-LT	135	53	126	49	118	46
3862	Mocha Beige-DK	295	116	275	108	258	101
3864	Mocha Beige-LT	60	23	56	22	52	20
3865	Winter White	59	23	55	22	52	20

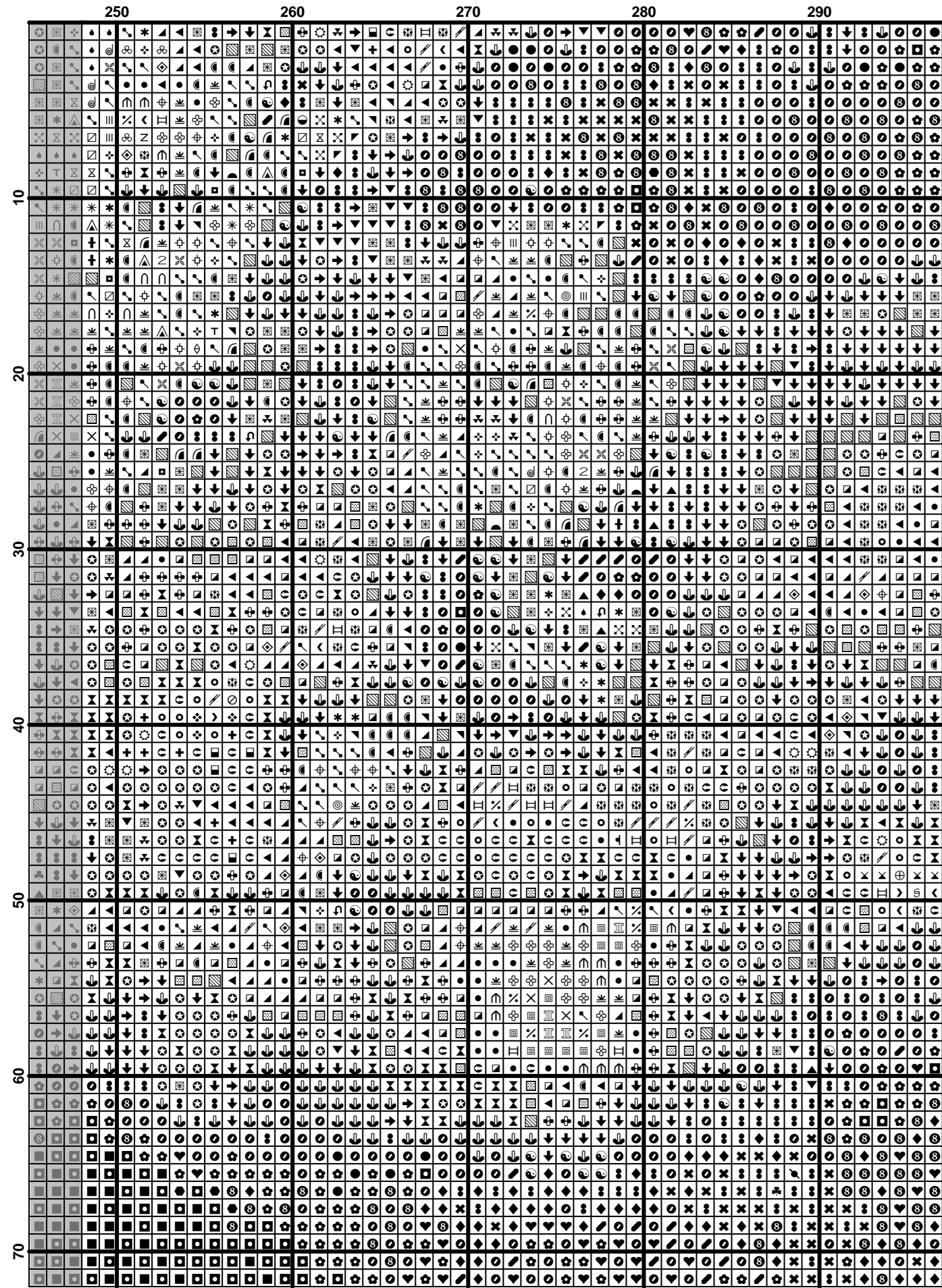


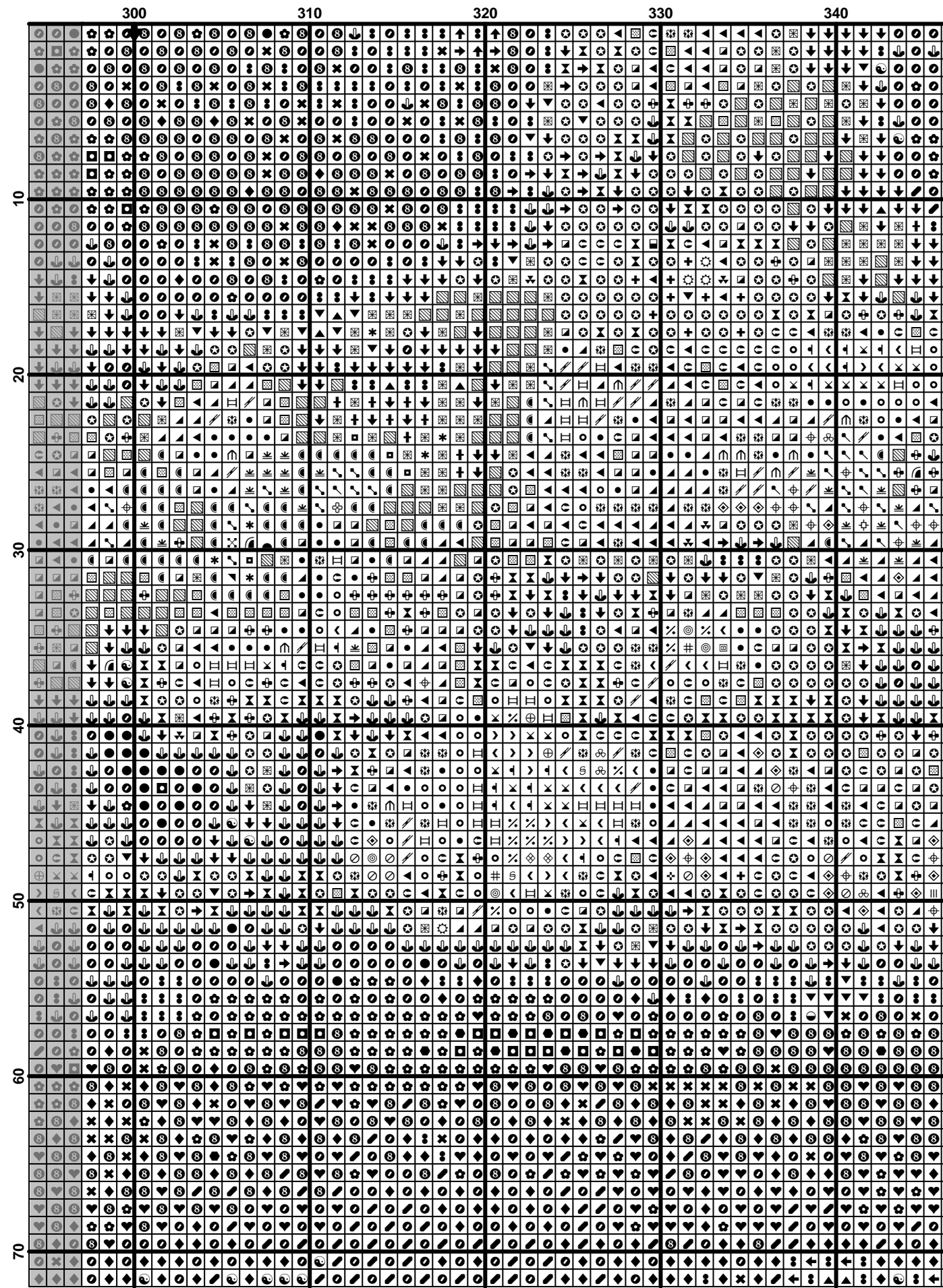


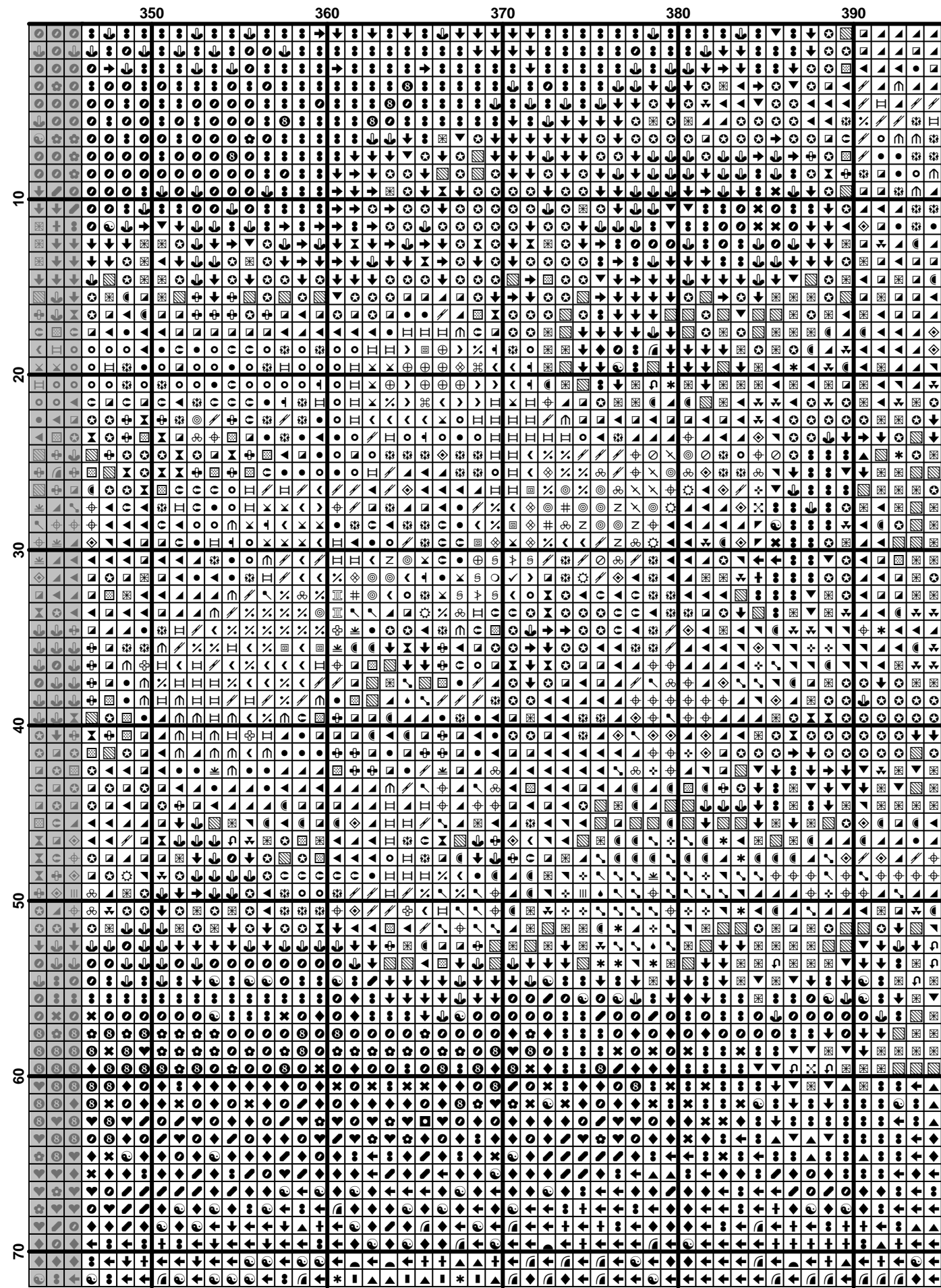




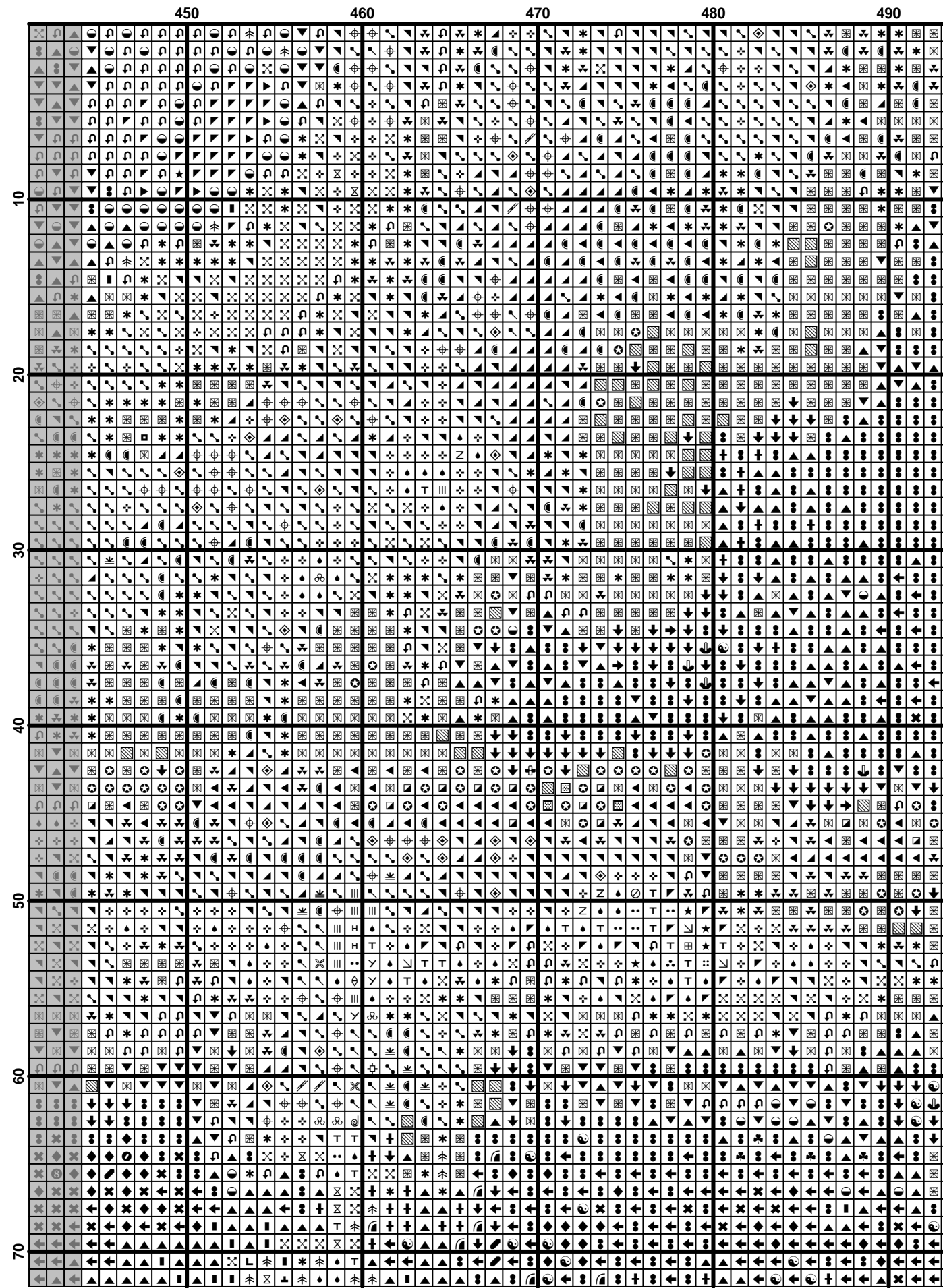


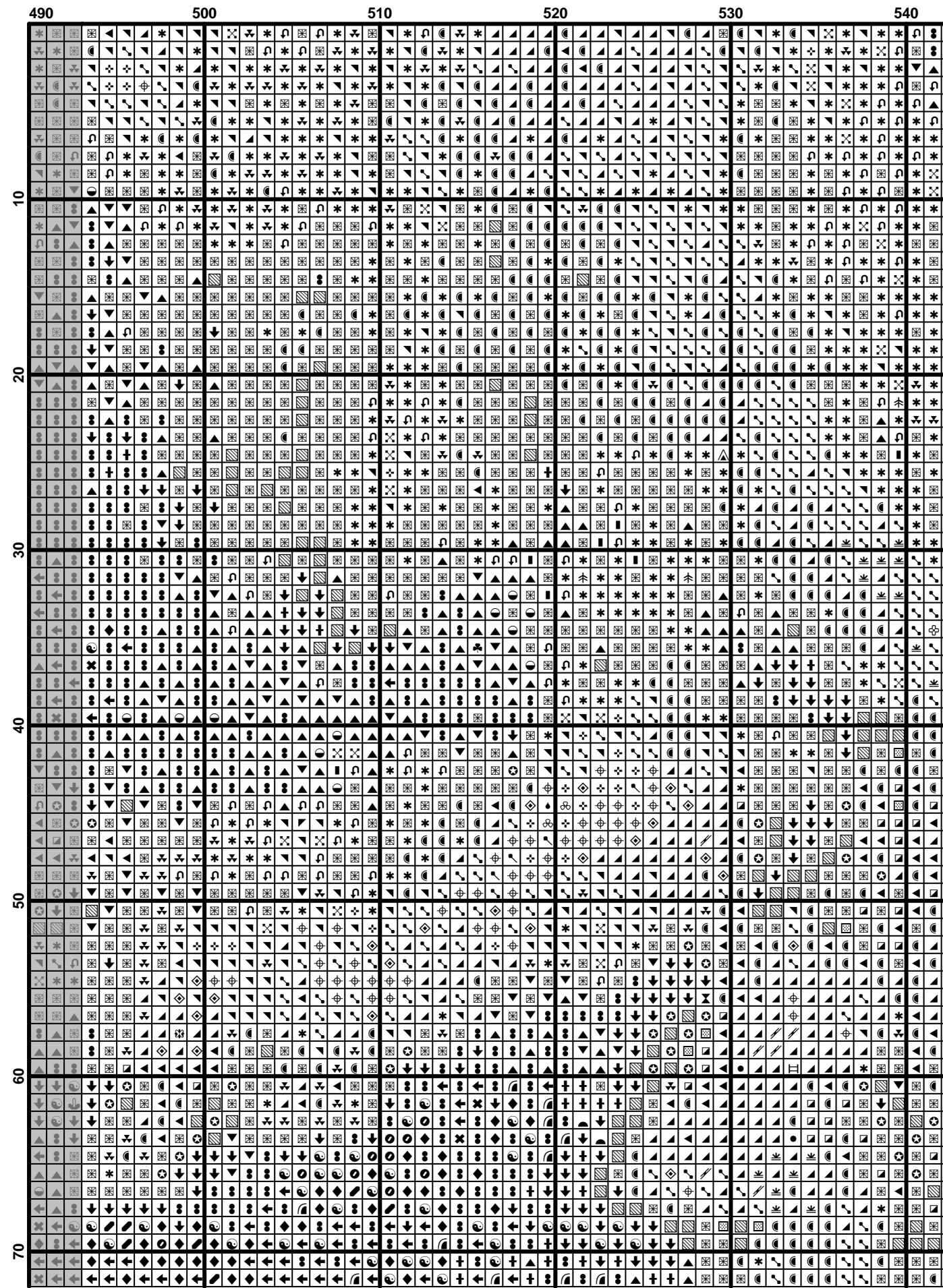


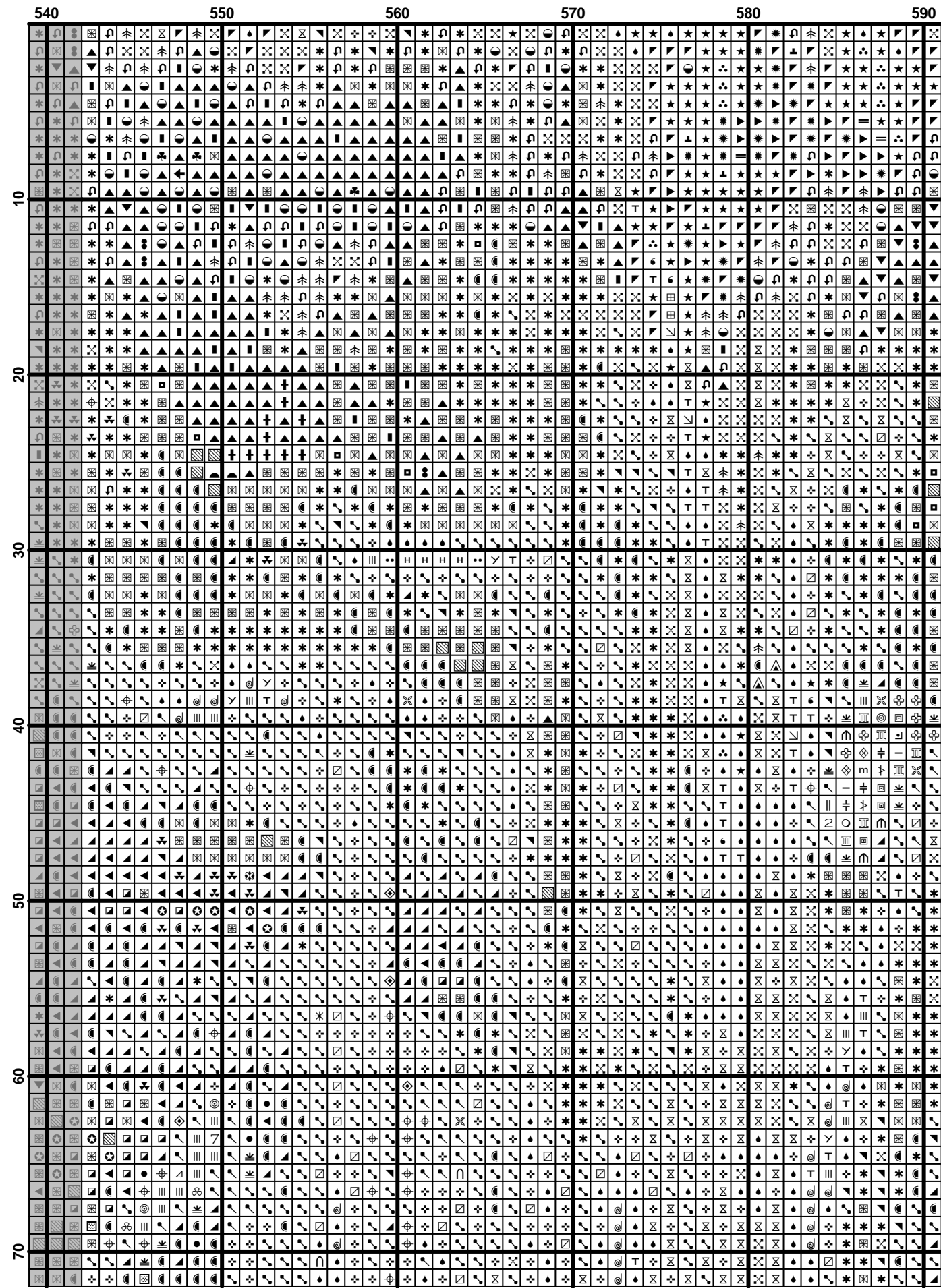


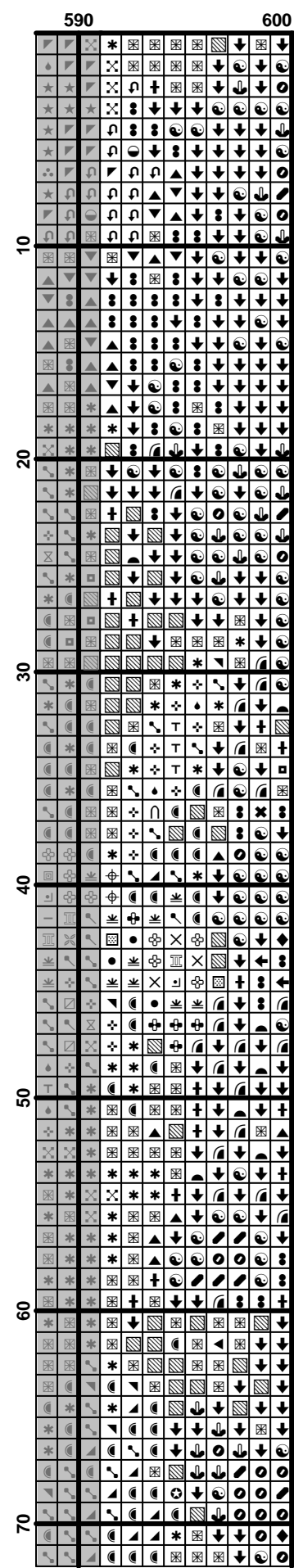


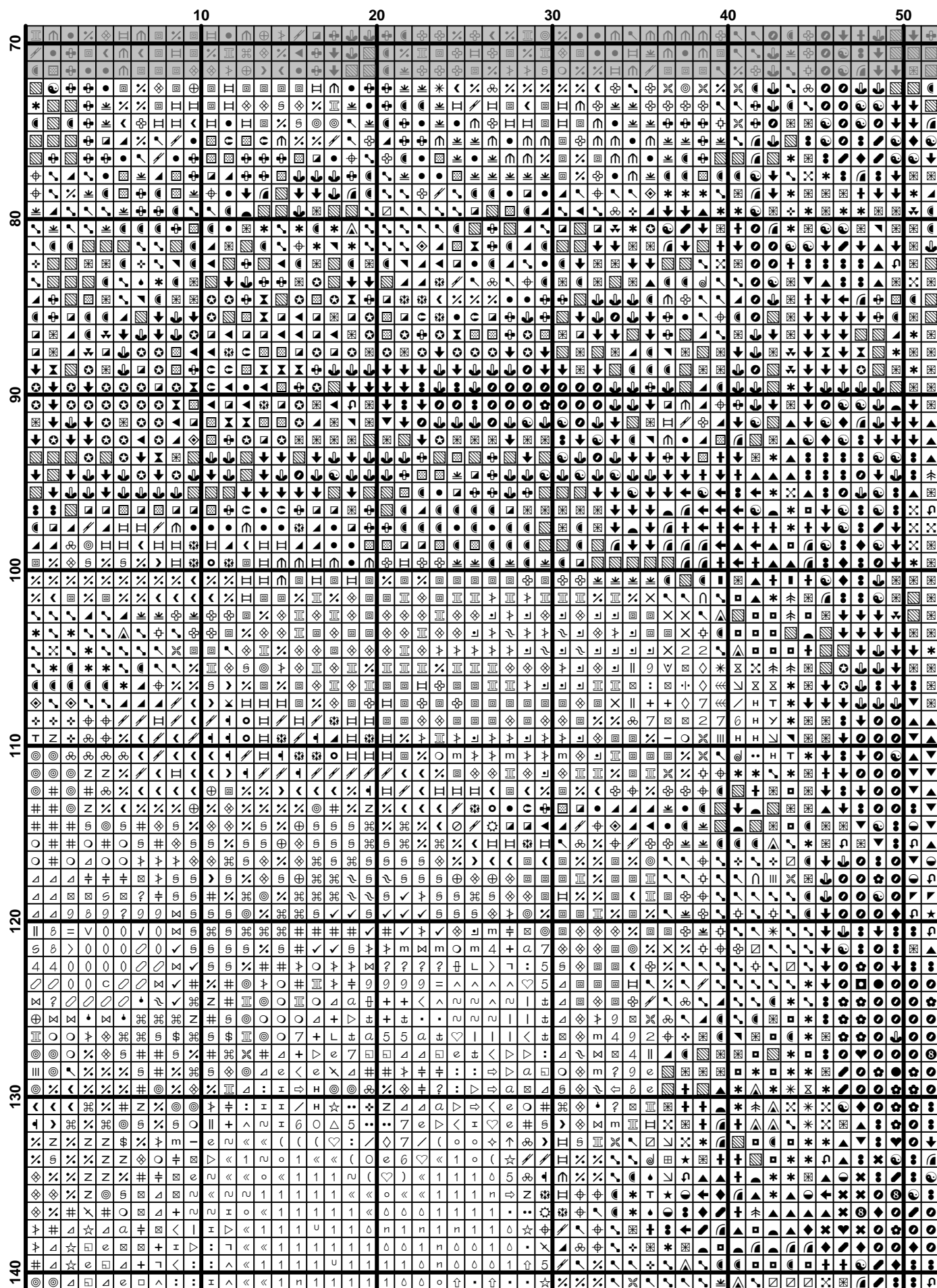


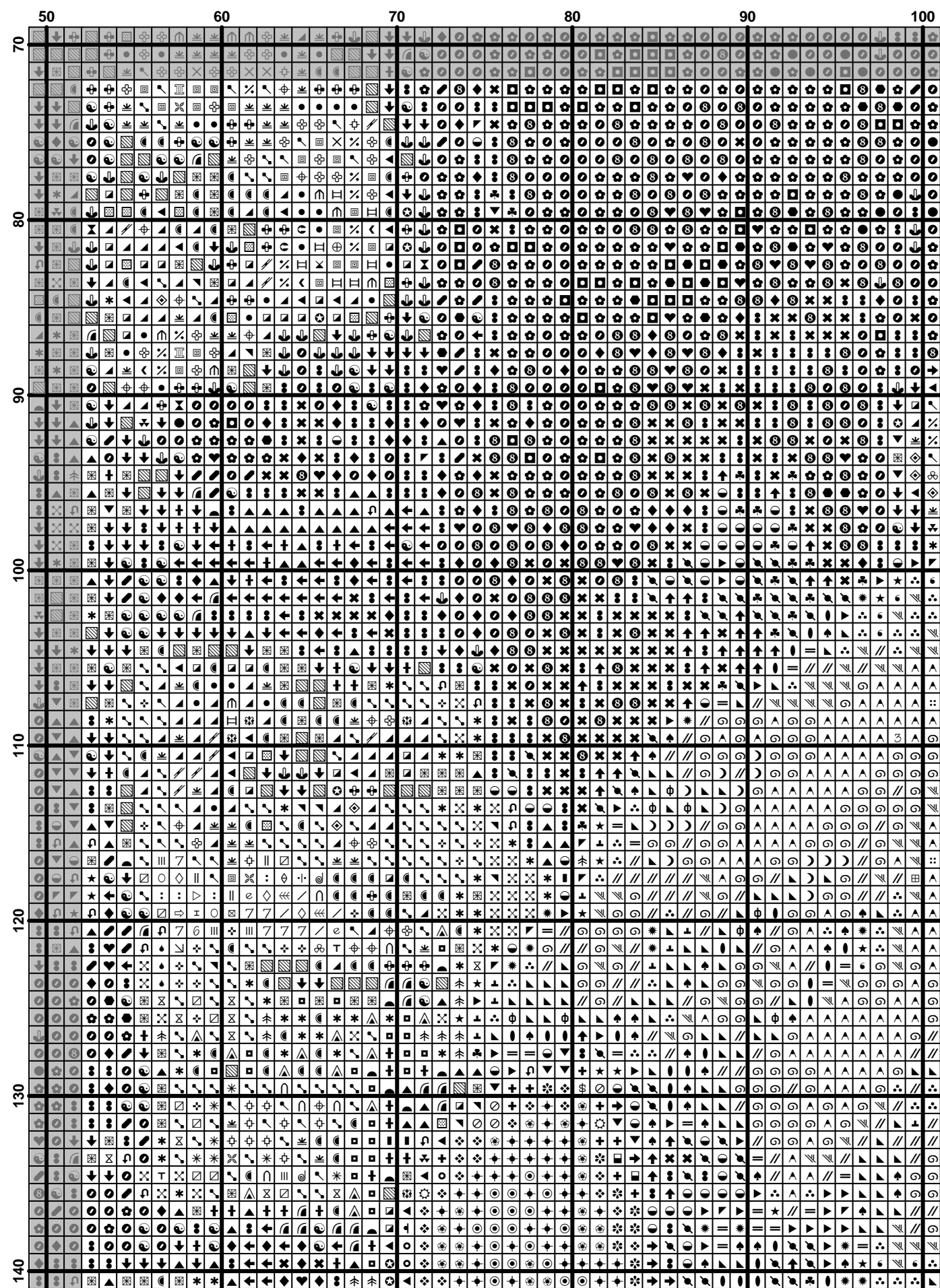








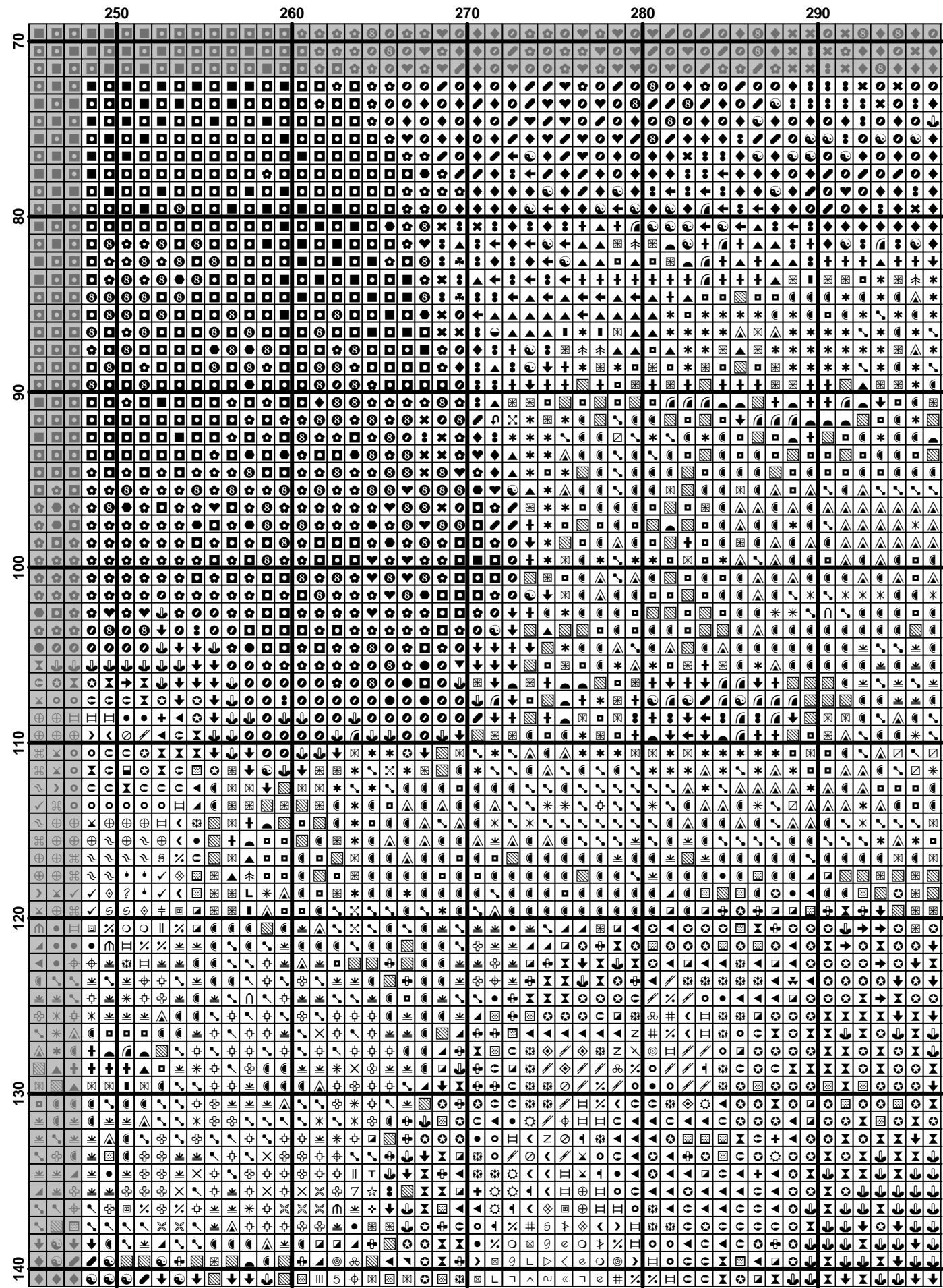


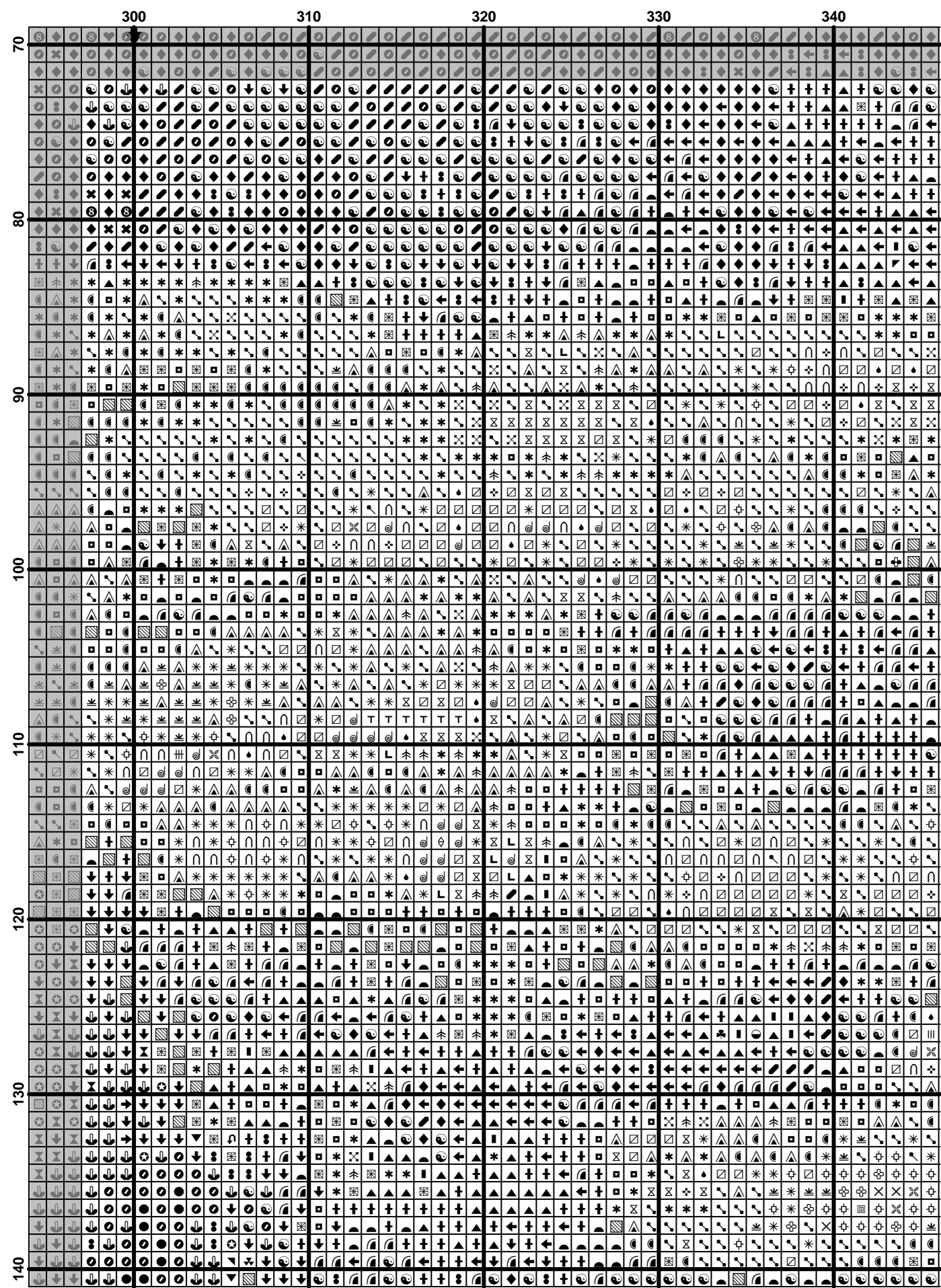


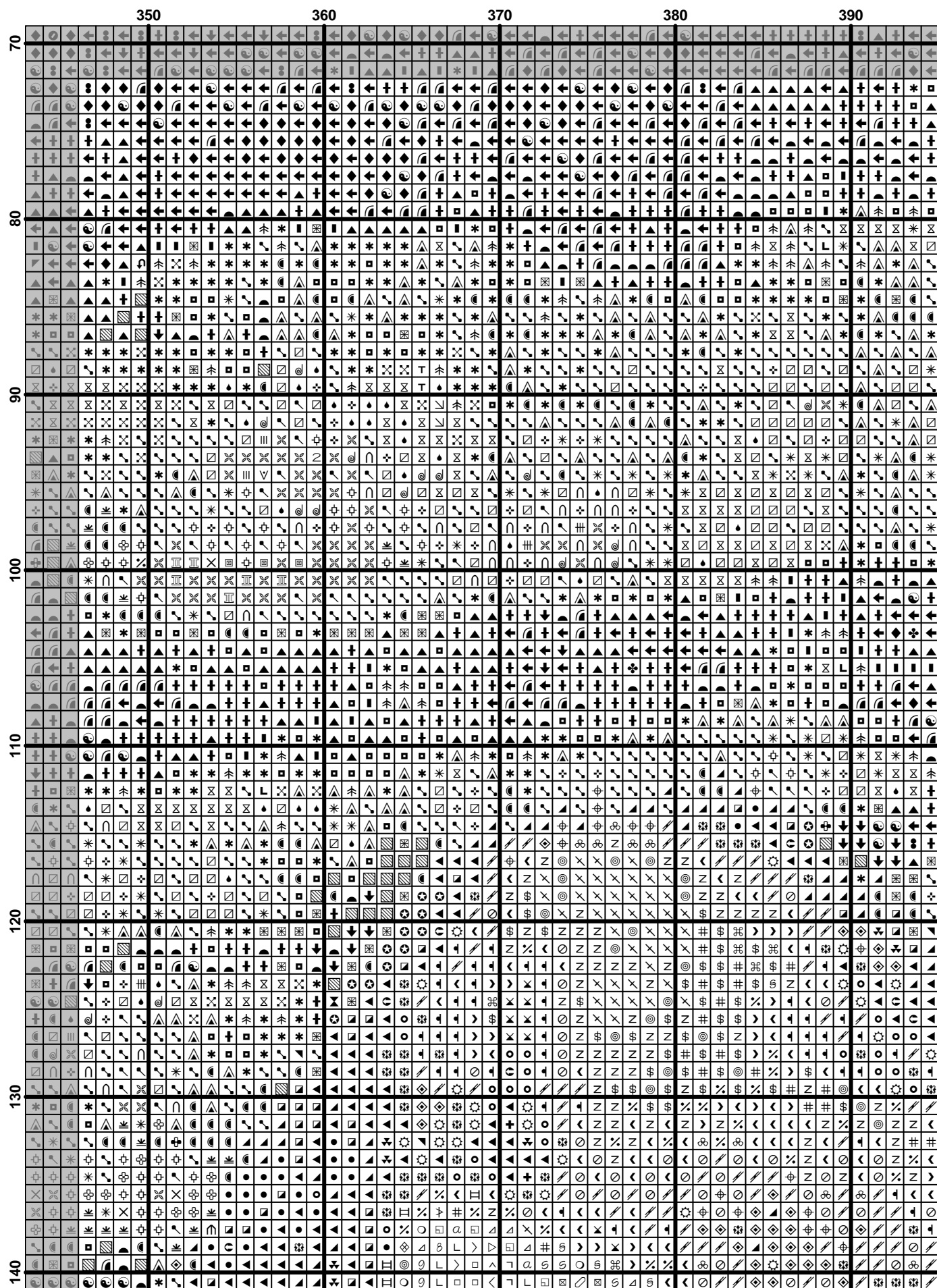
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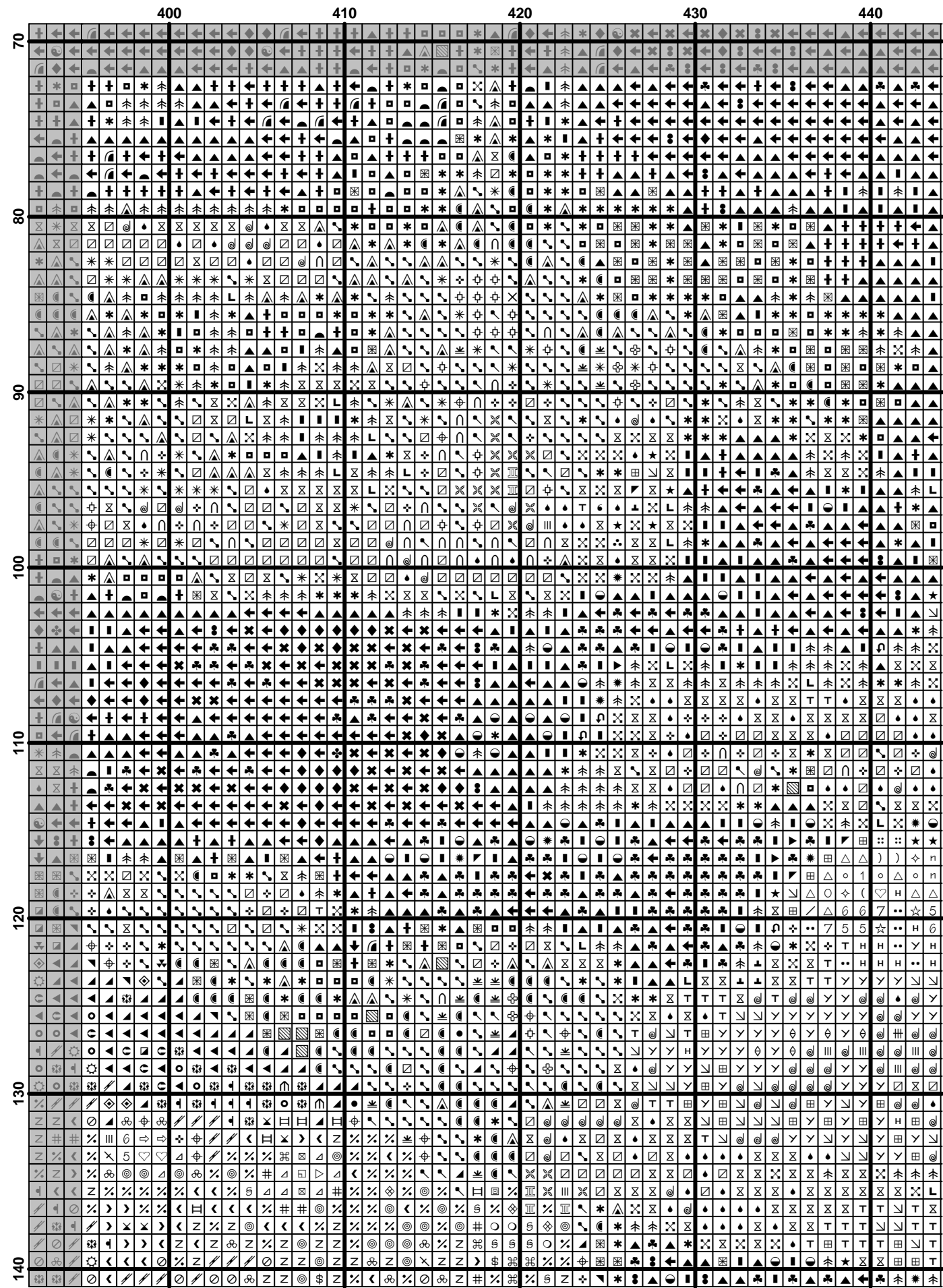
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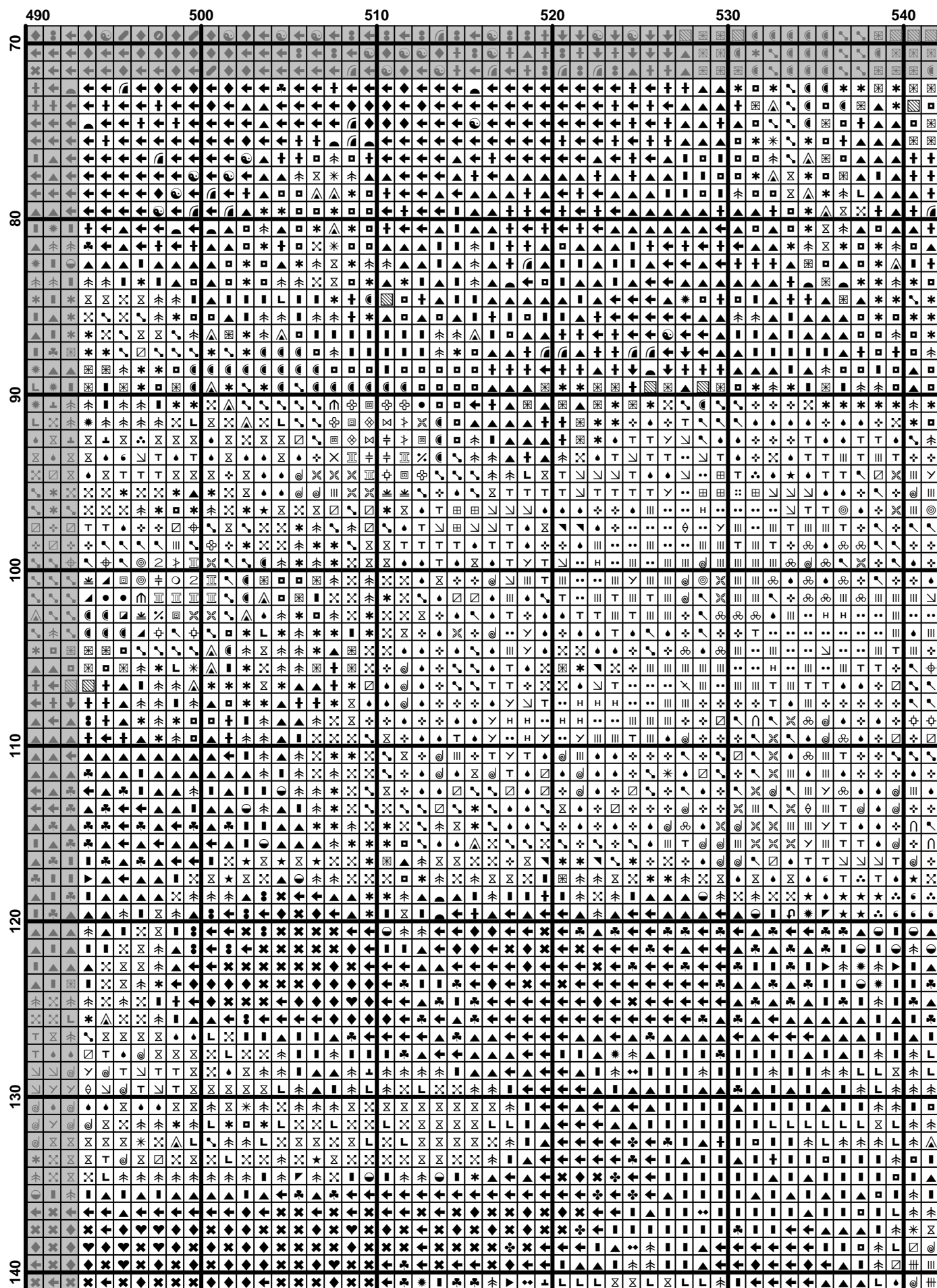




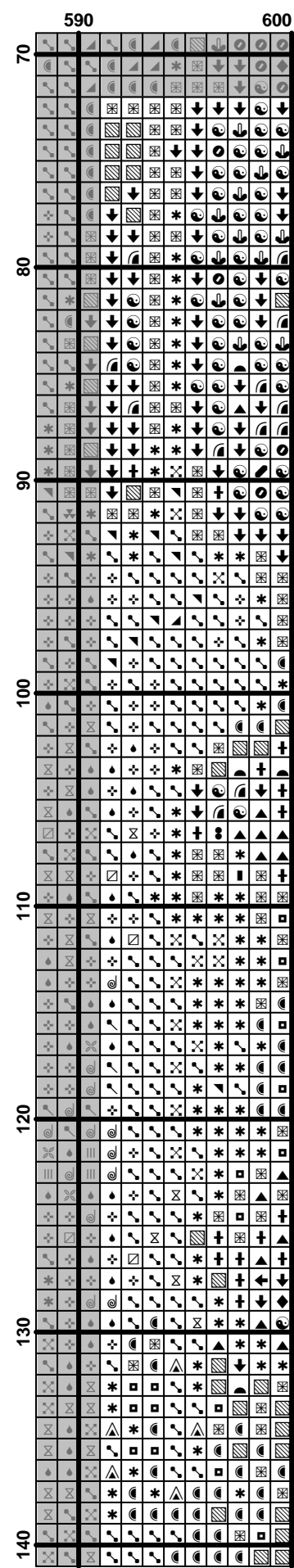




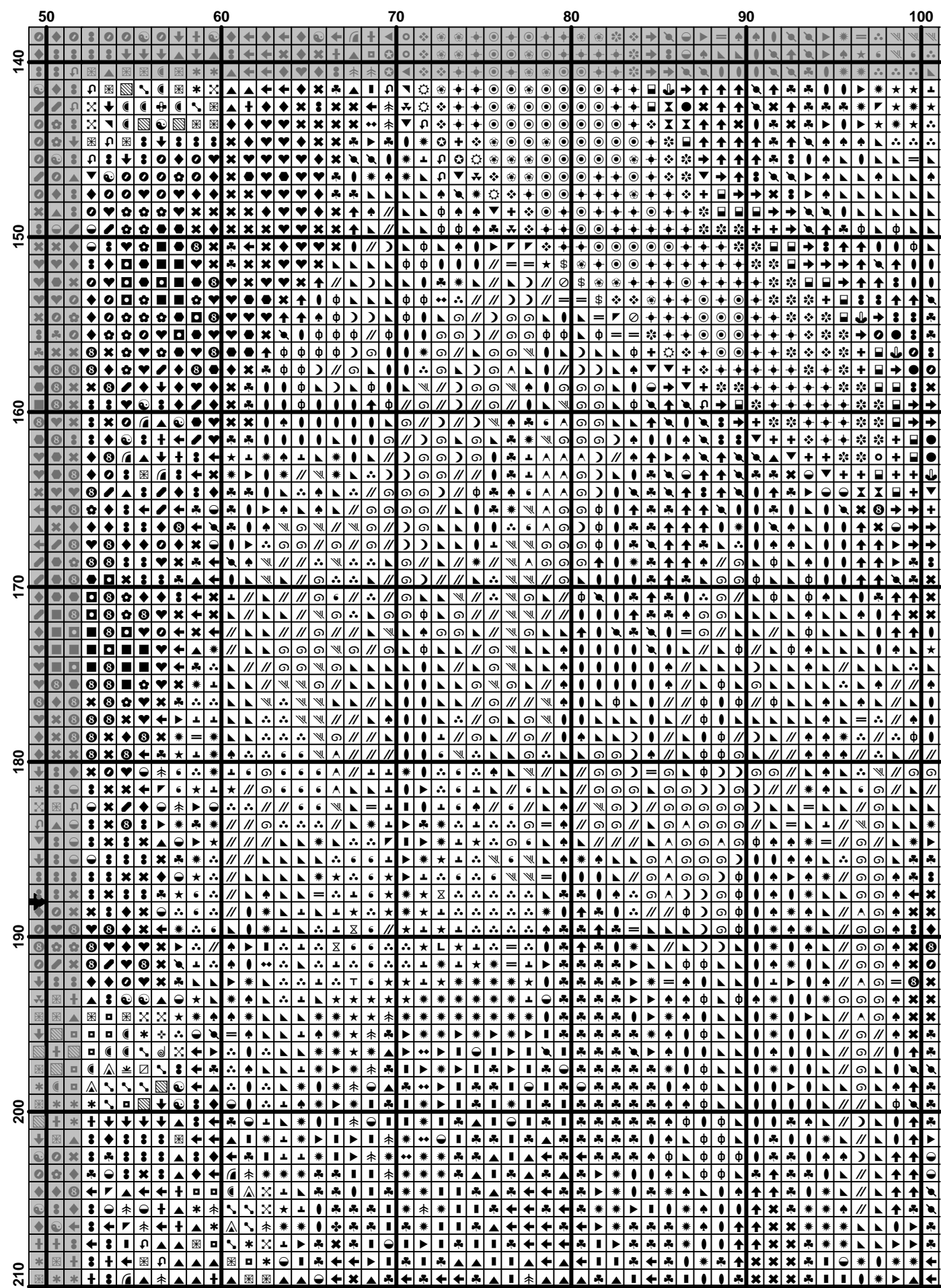
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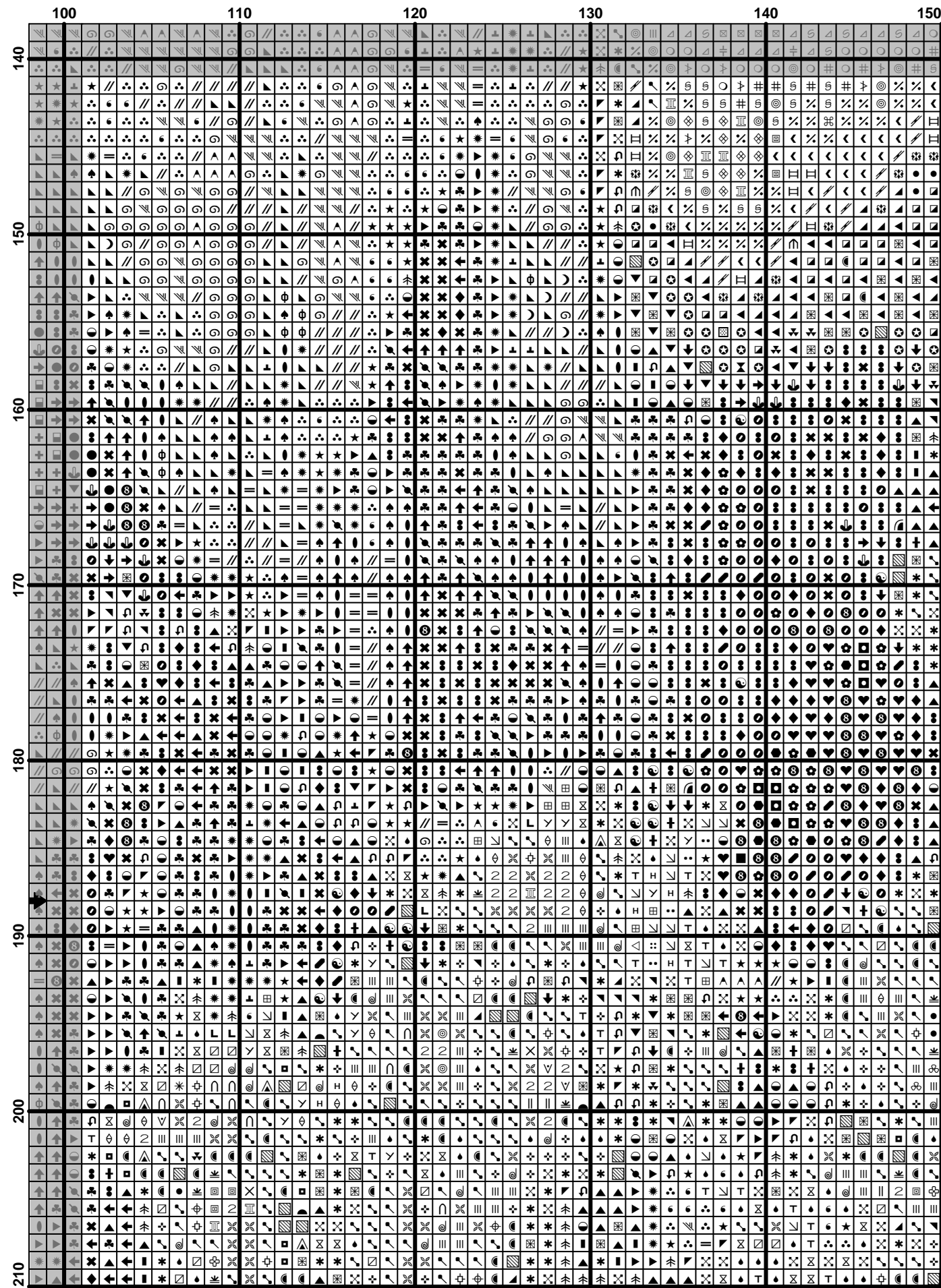


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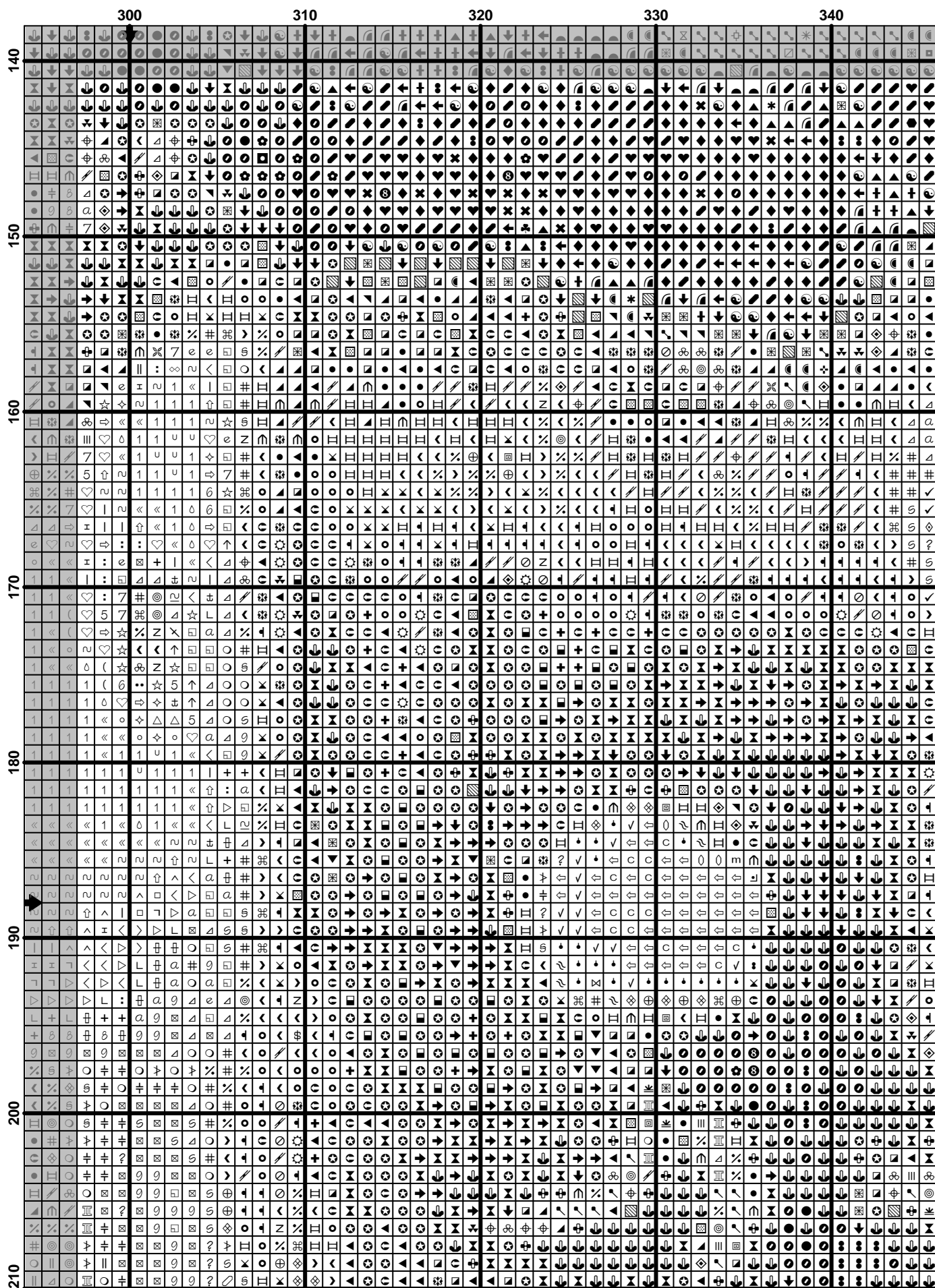




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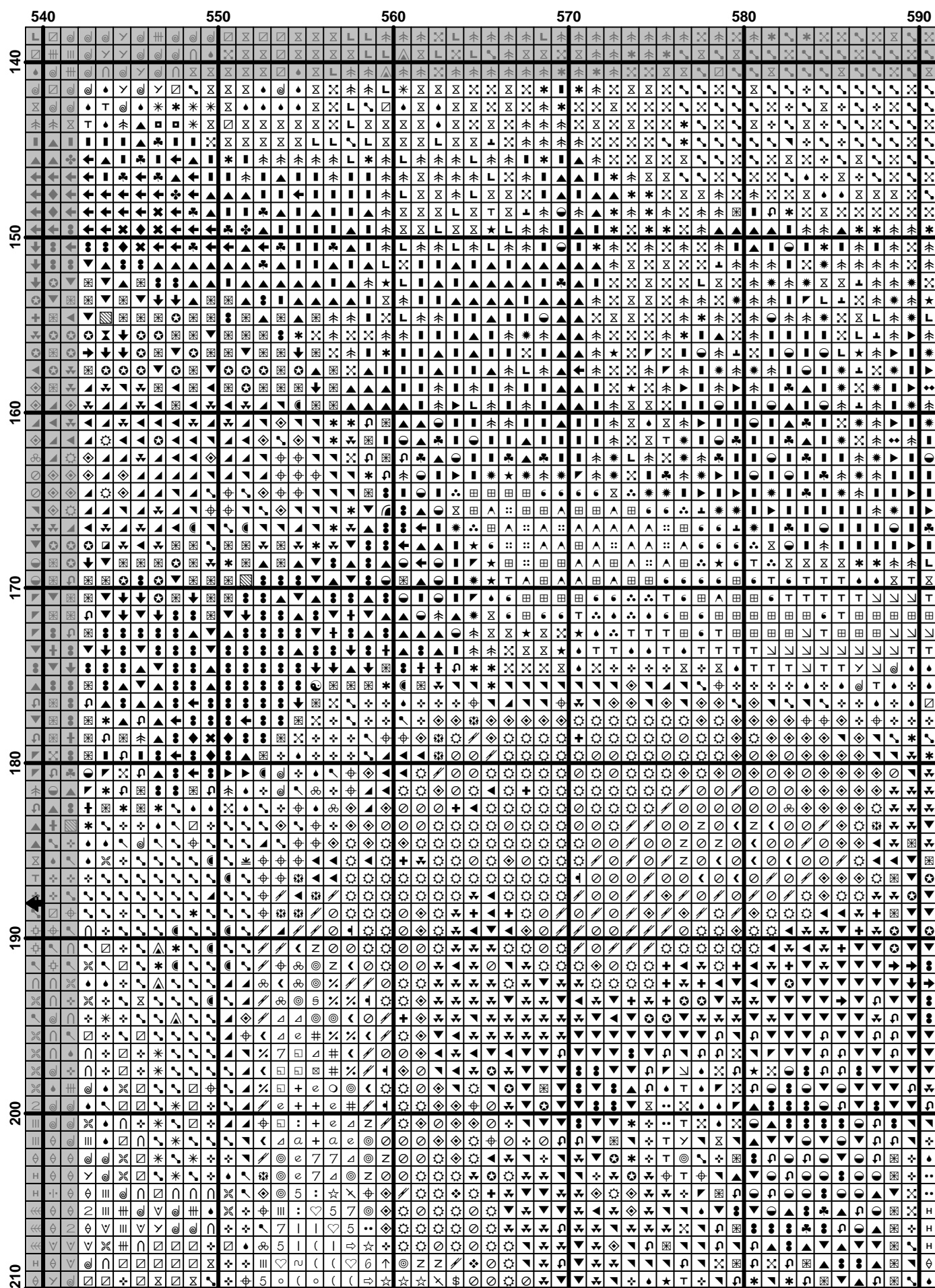


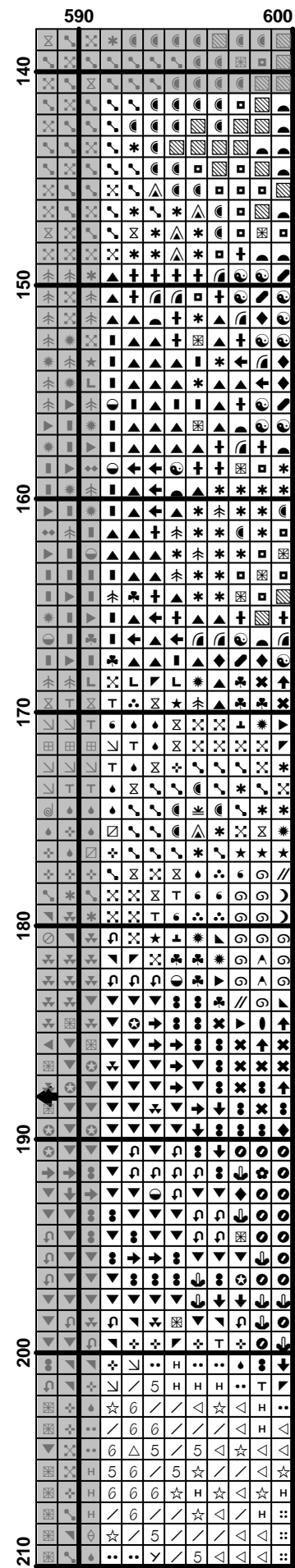
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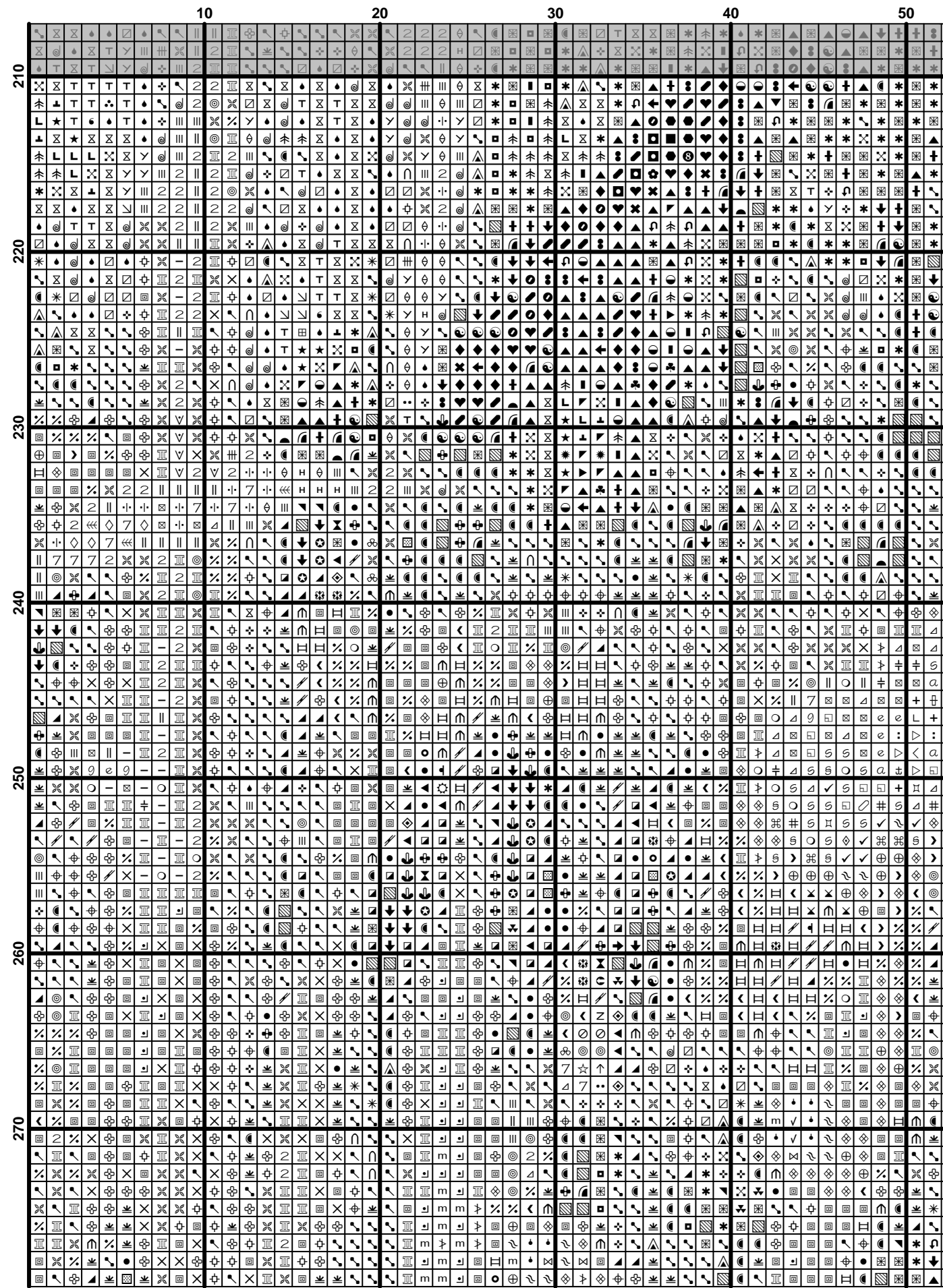
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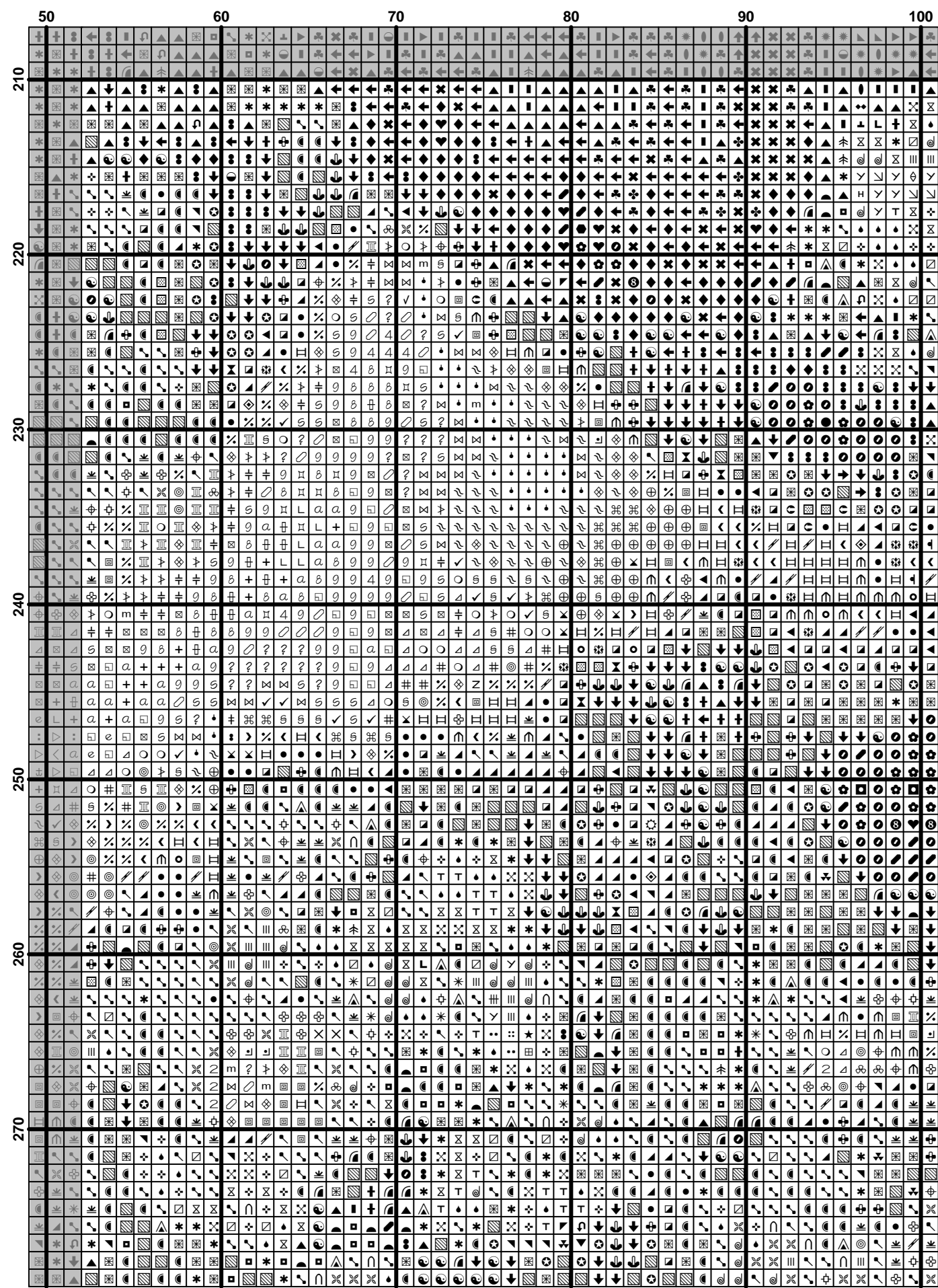
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140	田	田	田	田	田
150	田	田	田	田	田
160	田	田	田	田	田
170	田	田	田	田	田
180	田	田	田	田	田
190	田	田	田	田	田
200	田	田	田	田	田
210	田	田	田	田	田

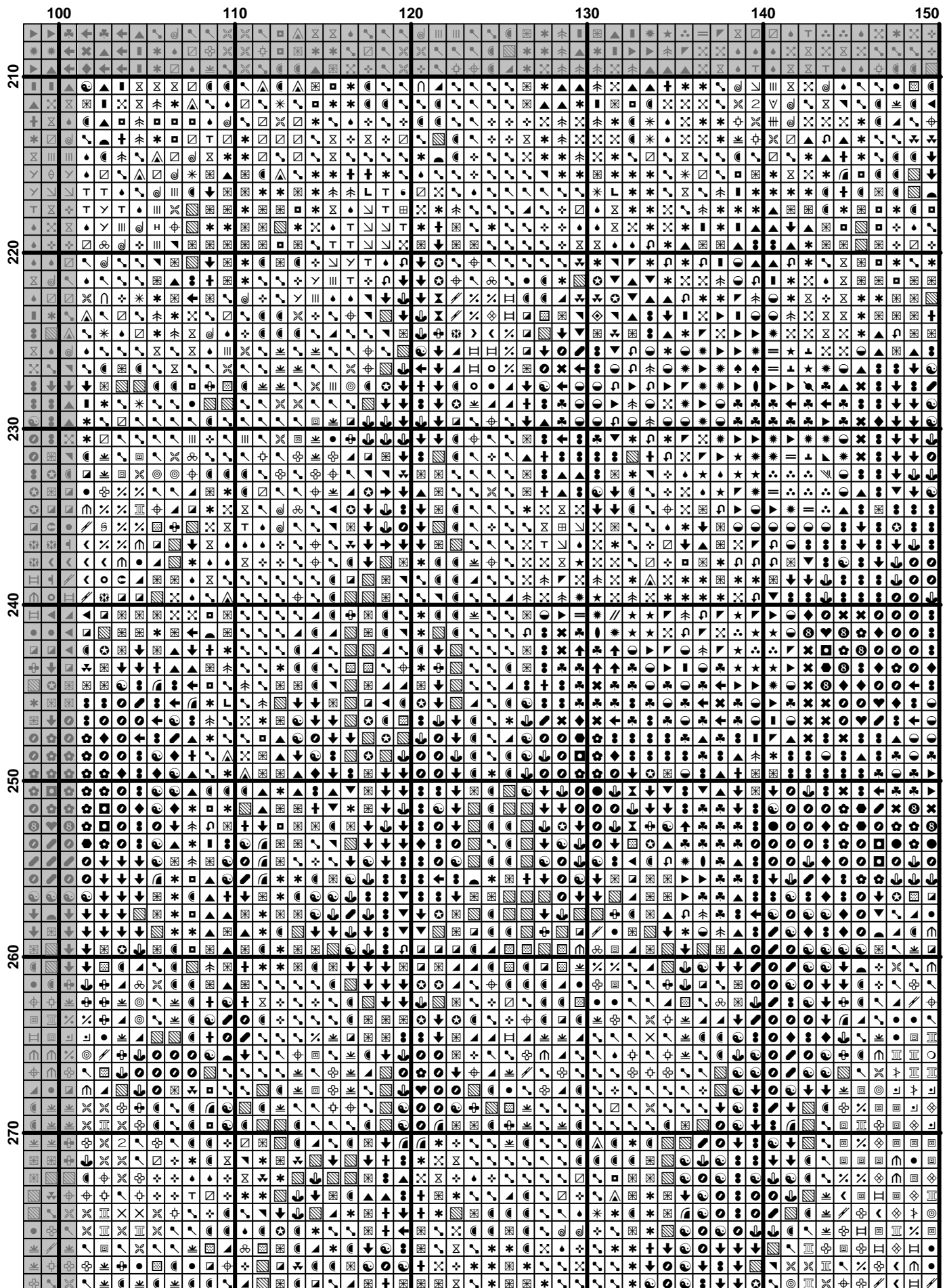
	490	500	510	520	530	540
140						
150						
160						
170						
180						
190						
200						
210						

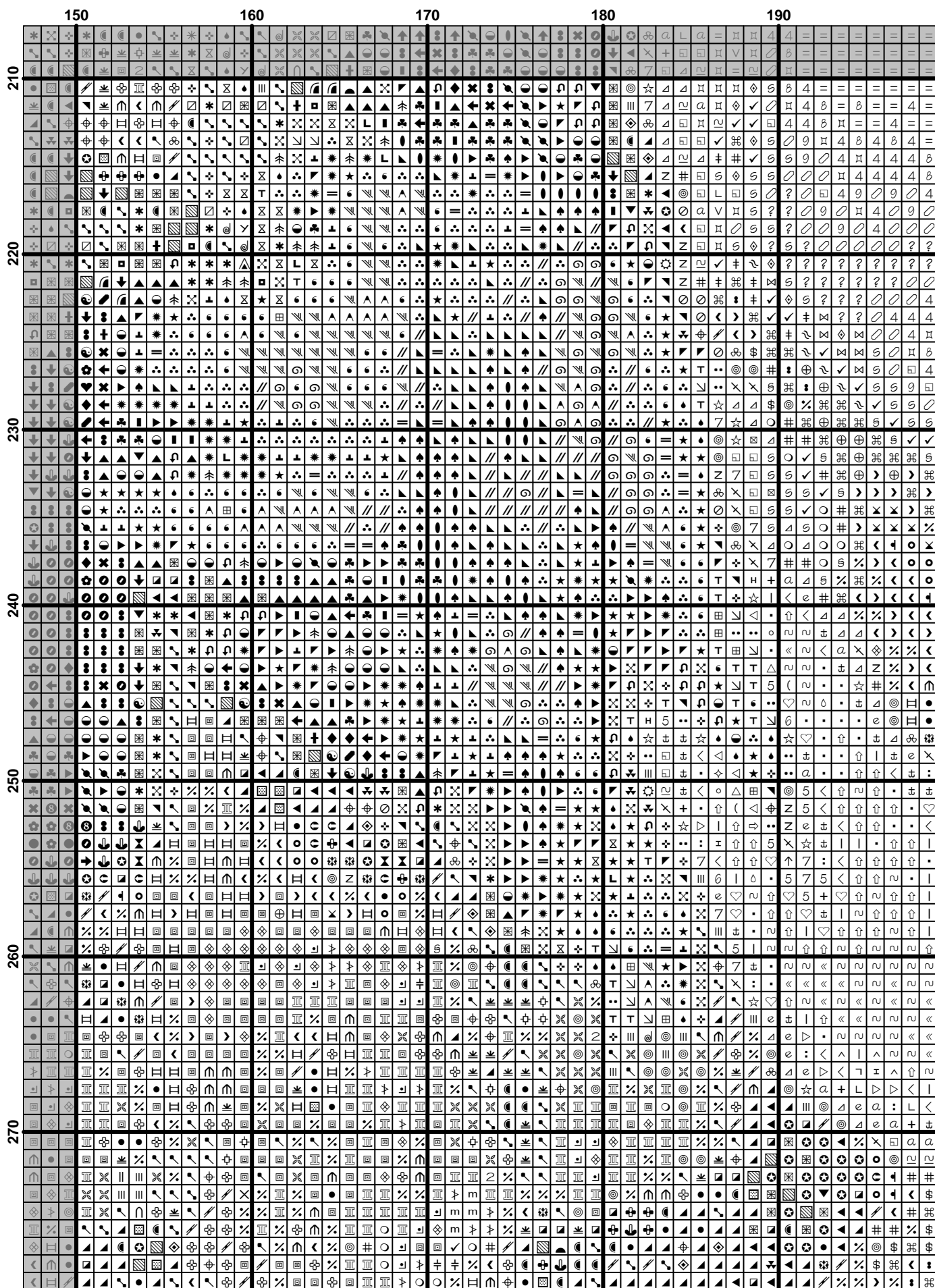












[illegible]

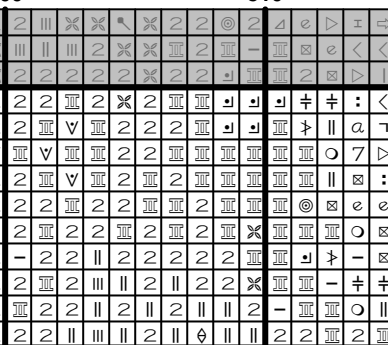
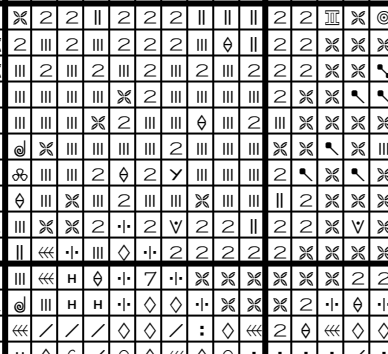
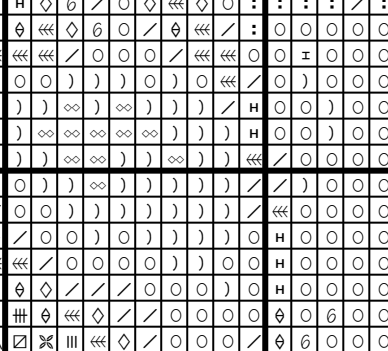
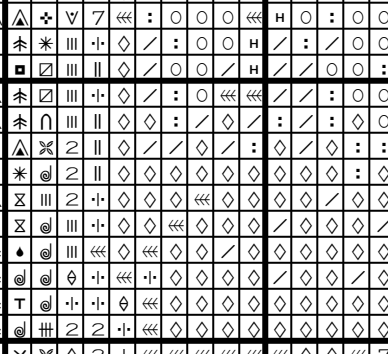
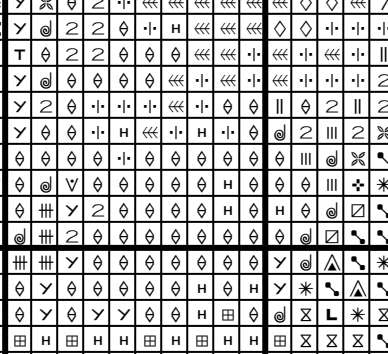
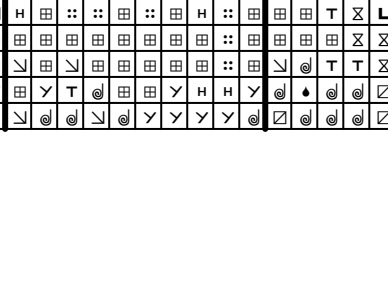
$$58) \quad \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx \quad (59)$$

[illegible]

	350	360	370	380	390
210					
220					
230					
240					
250					
260					
270					

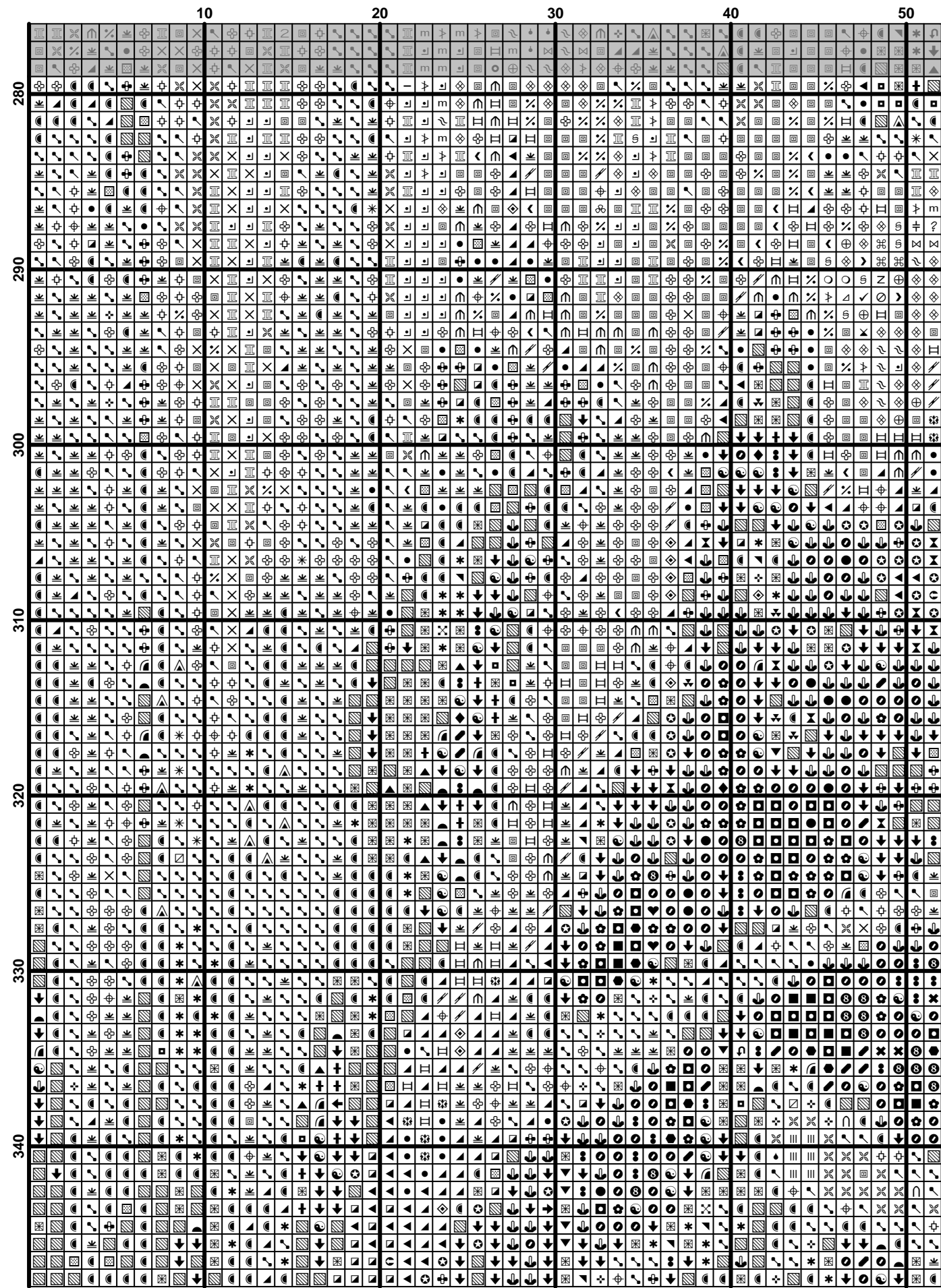
	400	410	420	430	440
210	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
220	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
230	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
240	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
250	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
260	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
270	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>

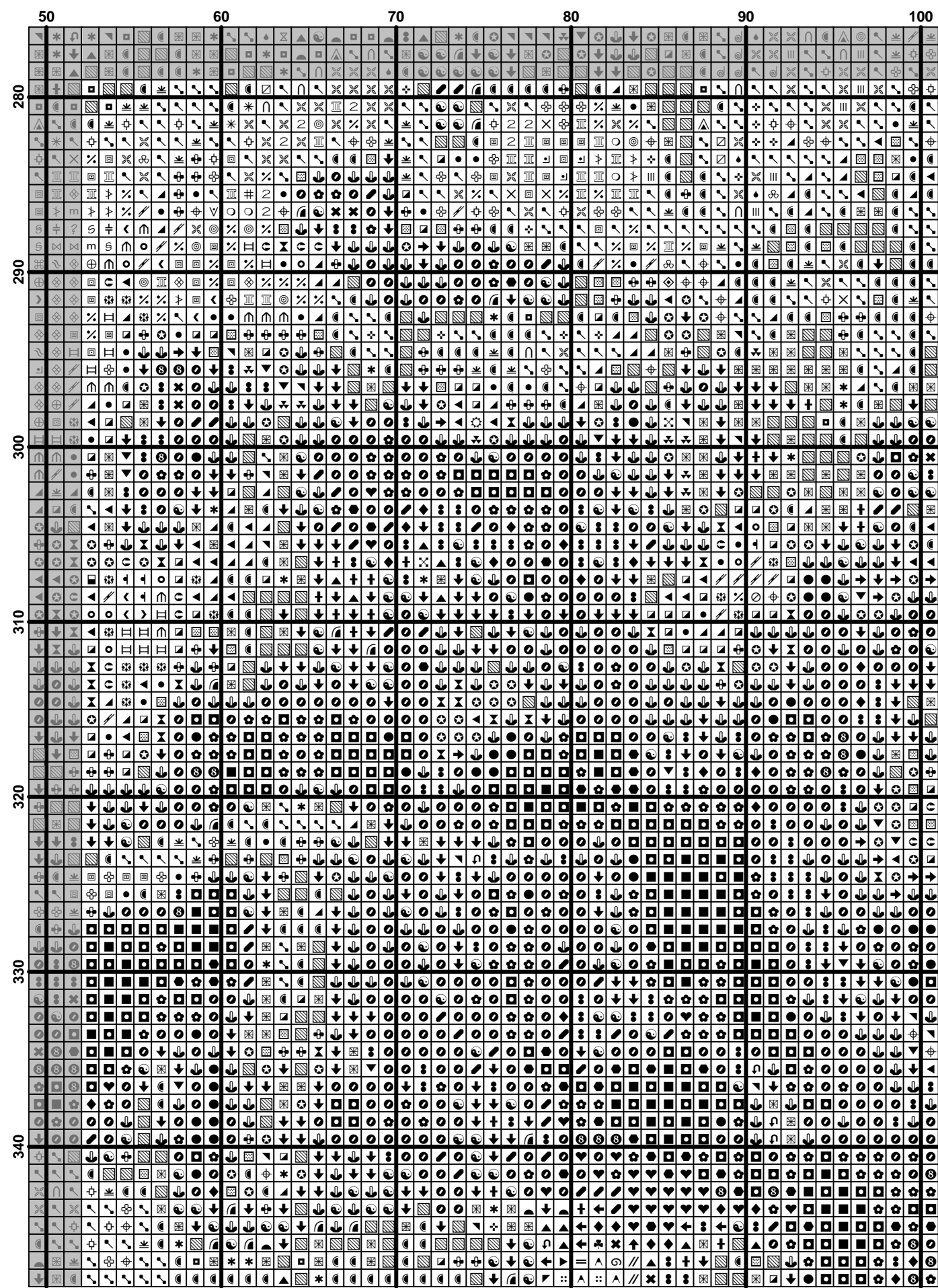
	450	460	470	480	490
210					
220					
230					
240					
250					
260					
270					

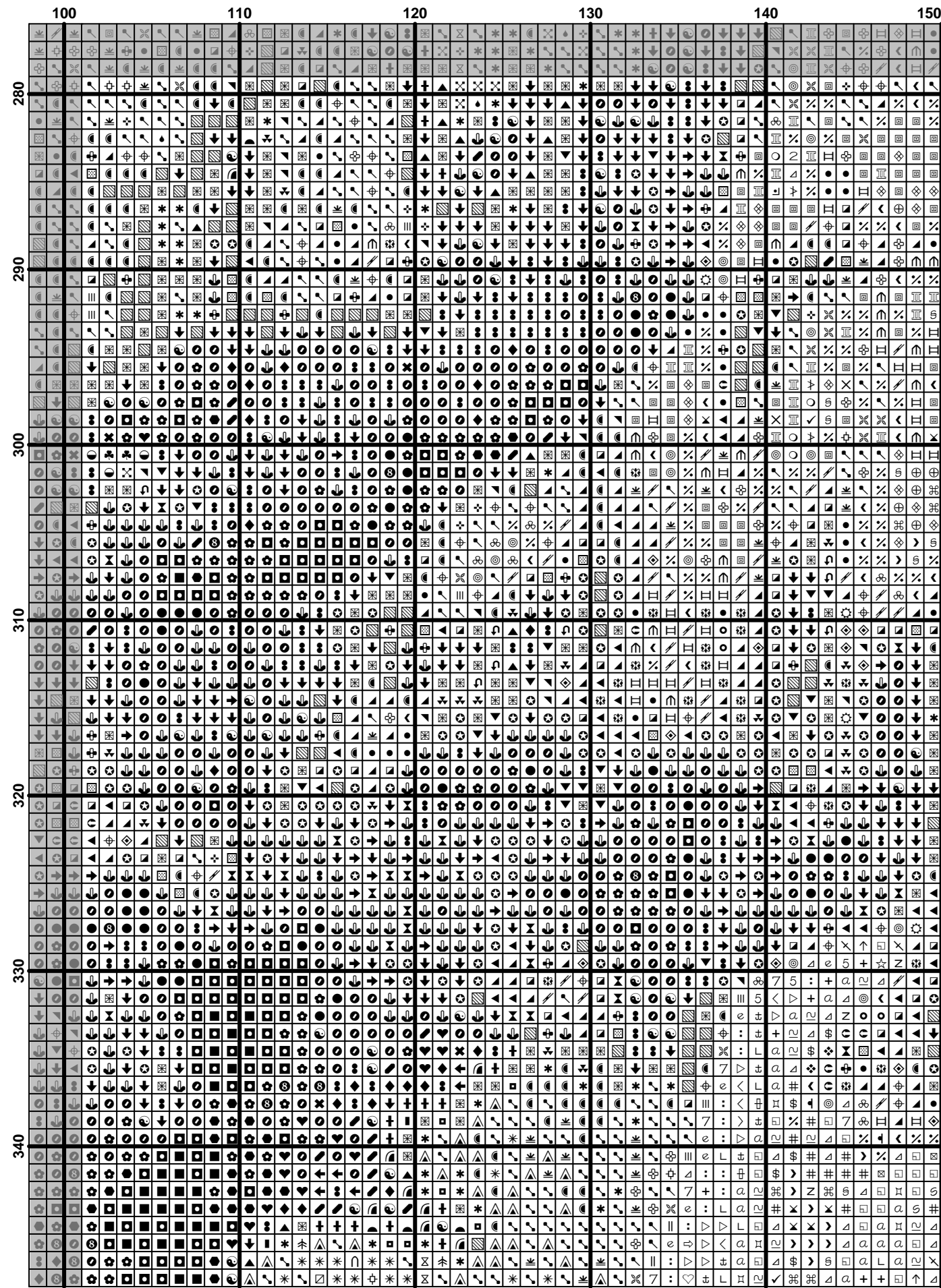
	490	500	510	520	530	540
210						
220						
230						
240						
250						
260						
270						

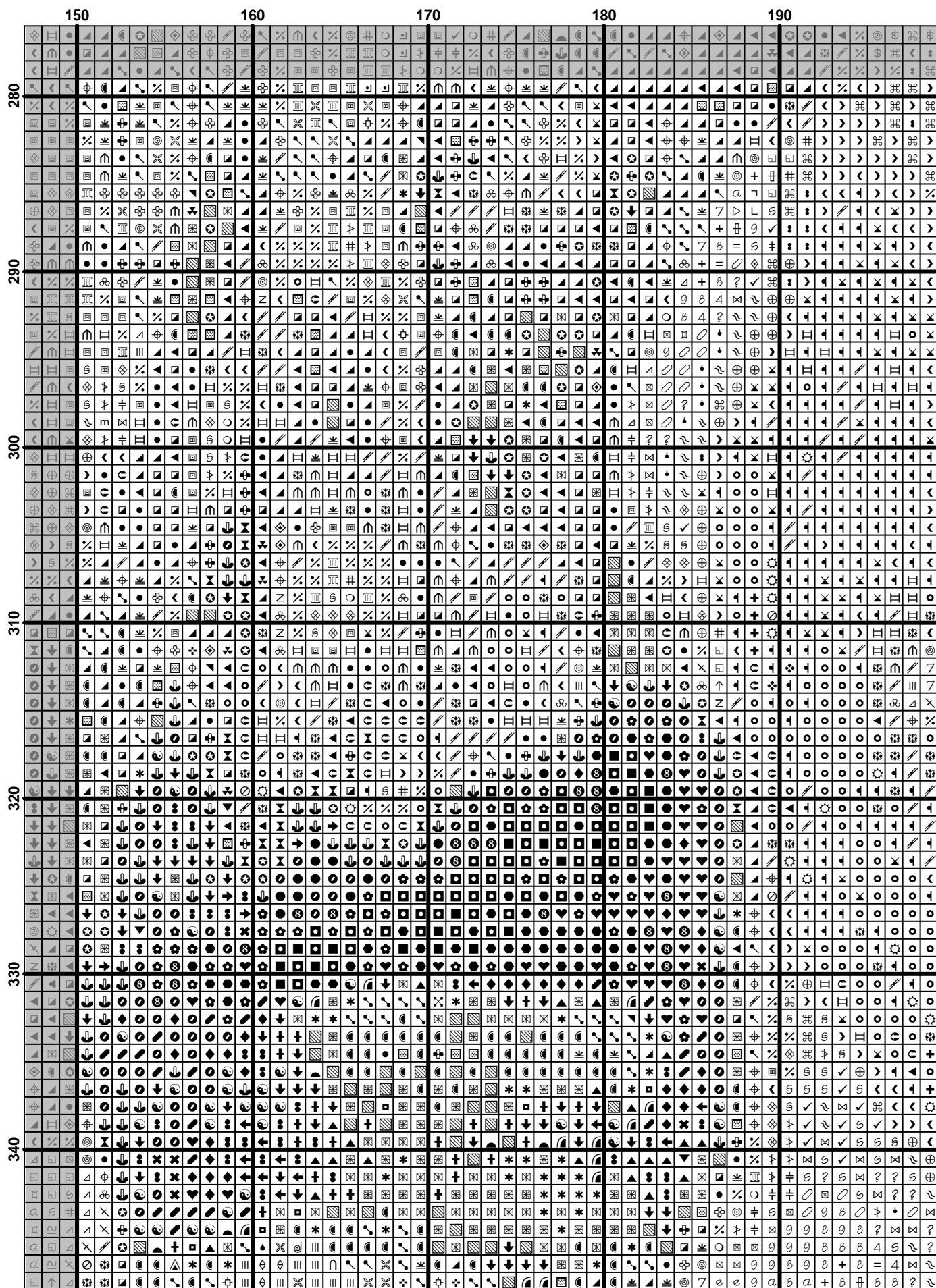
	540	550	560	570	580	590
210
220
230
240
250
260
270

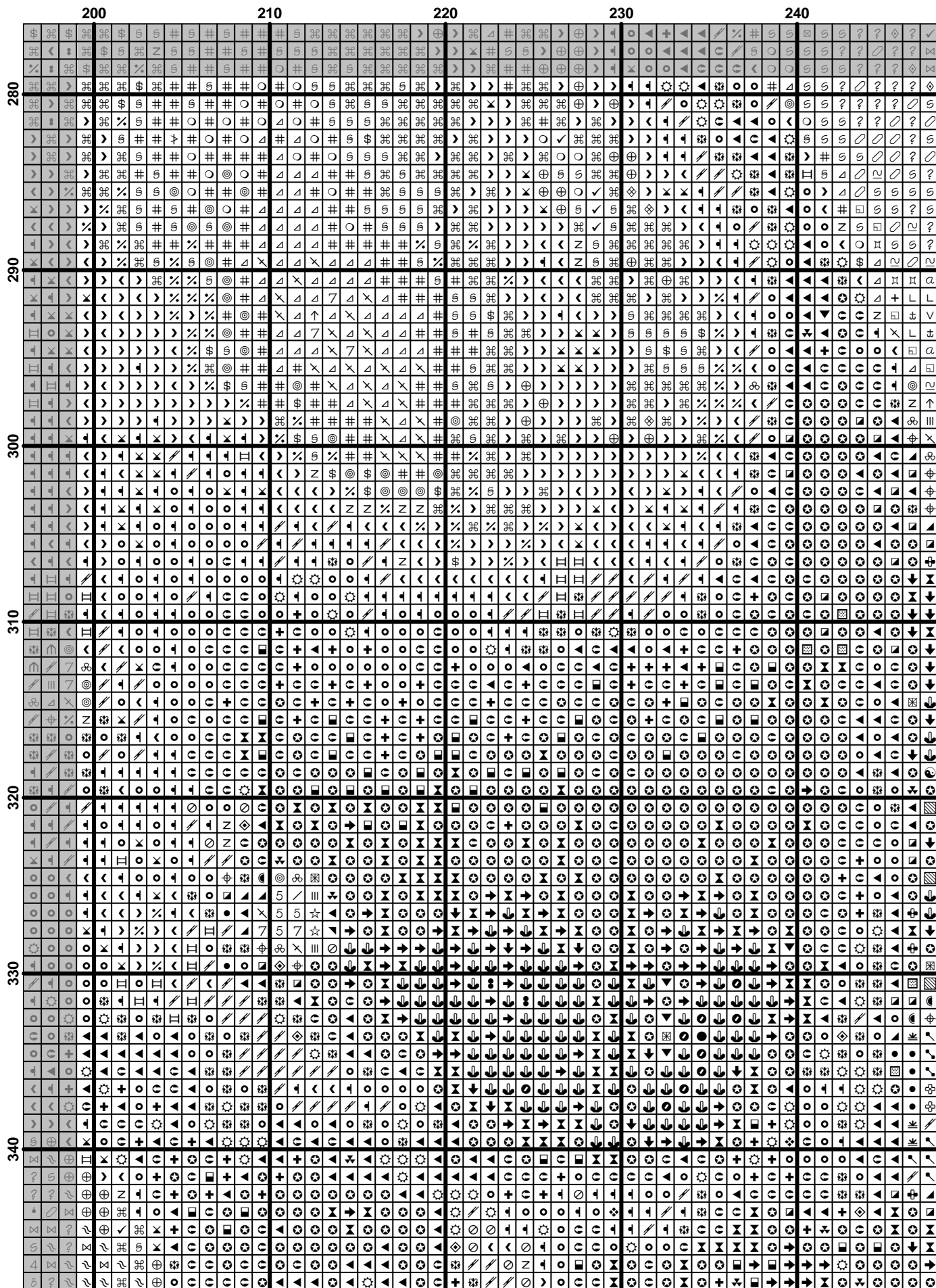
	590	600
210		
220		
230		
240		
250		
260		
270		





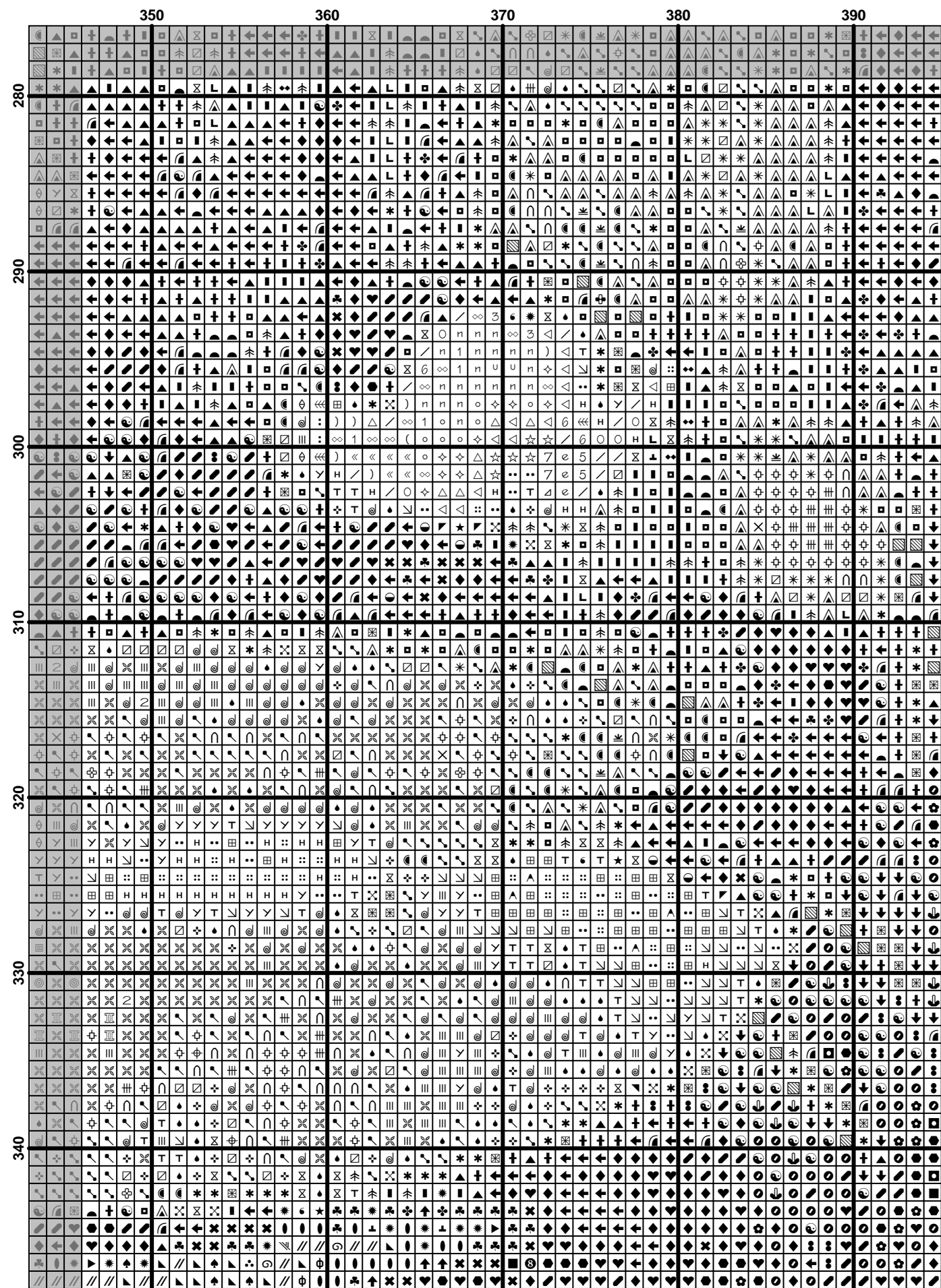


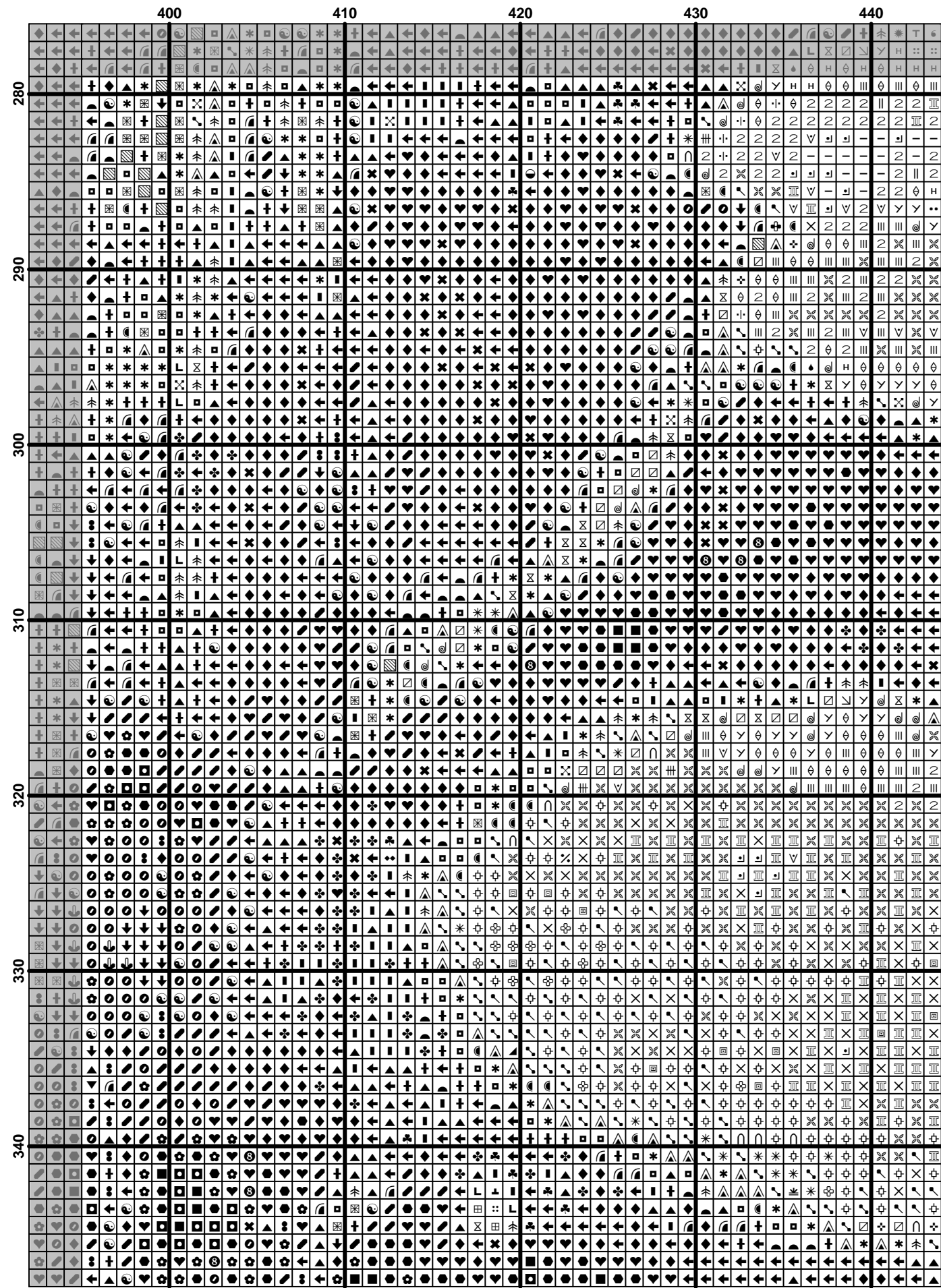




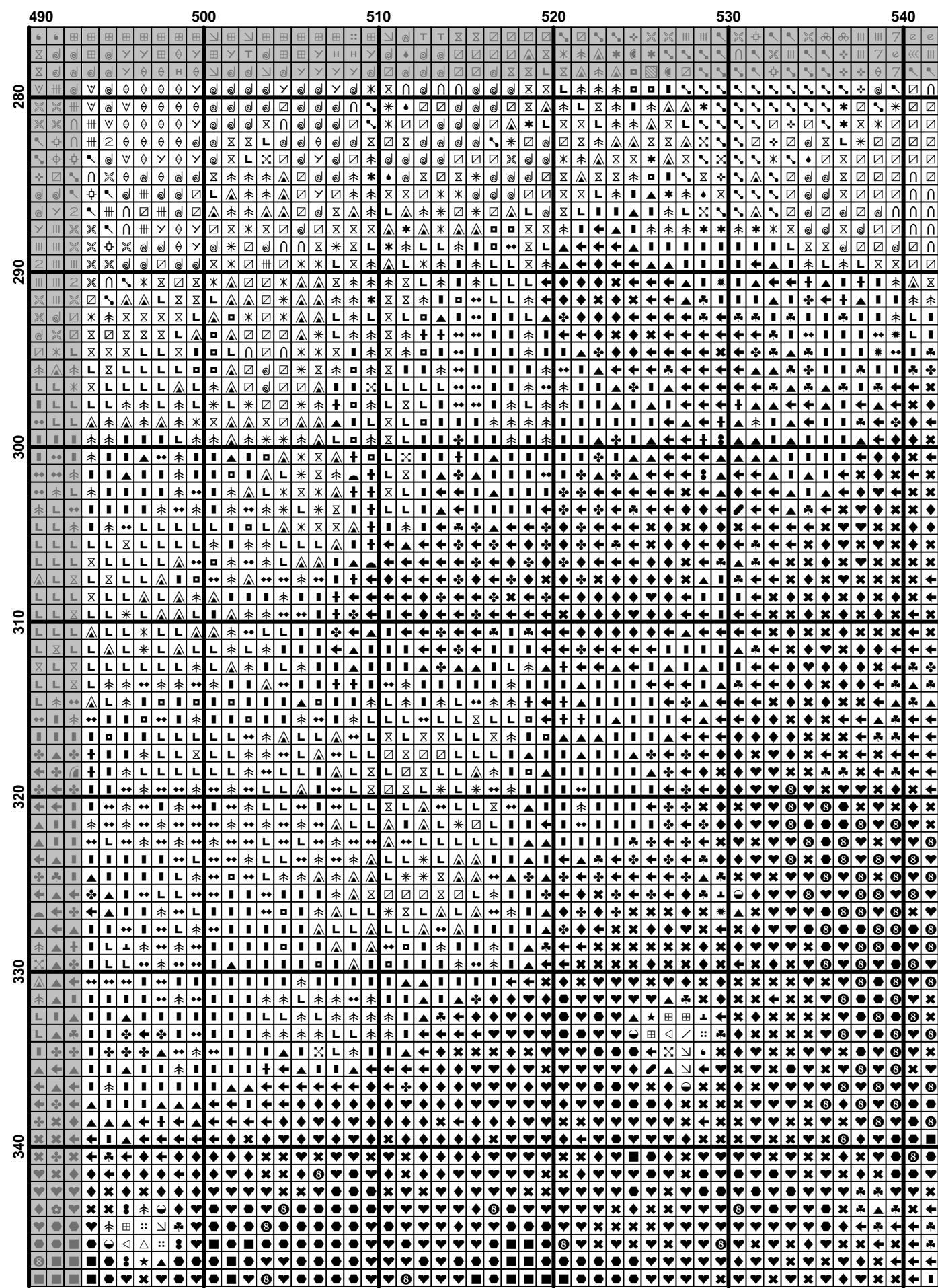
(72)

[illegible]



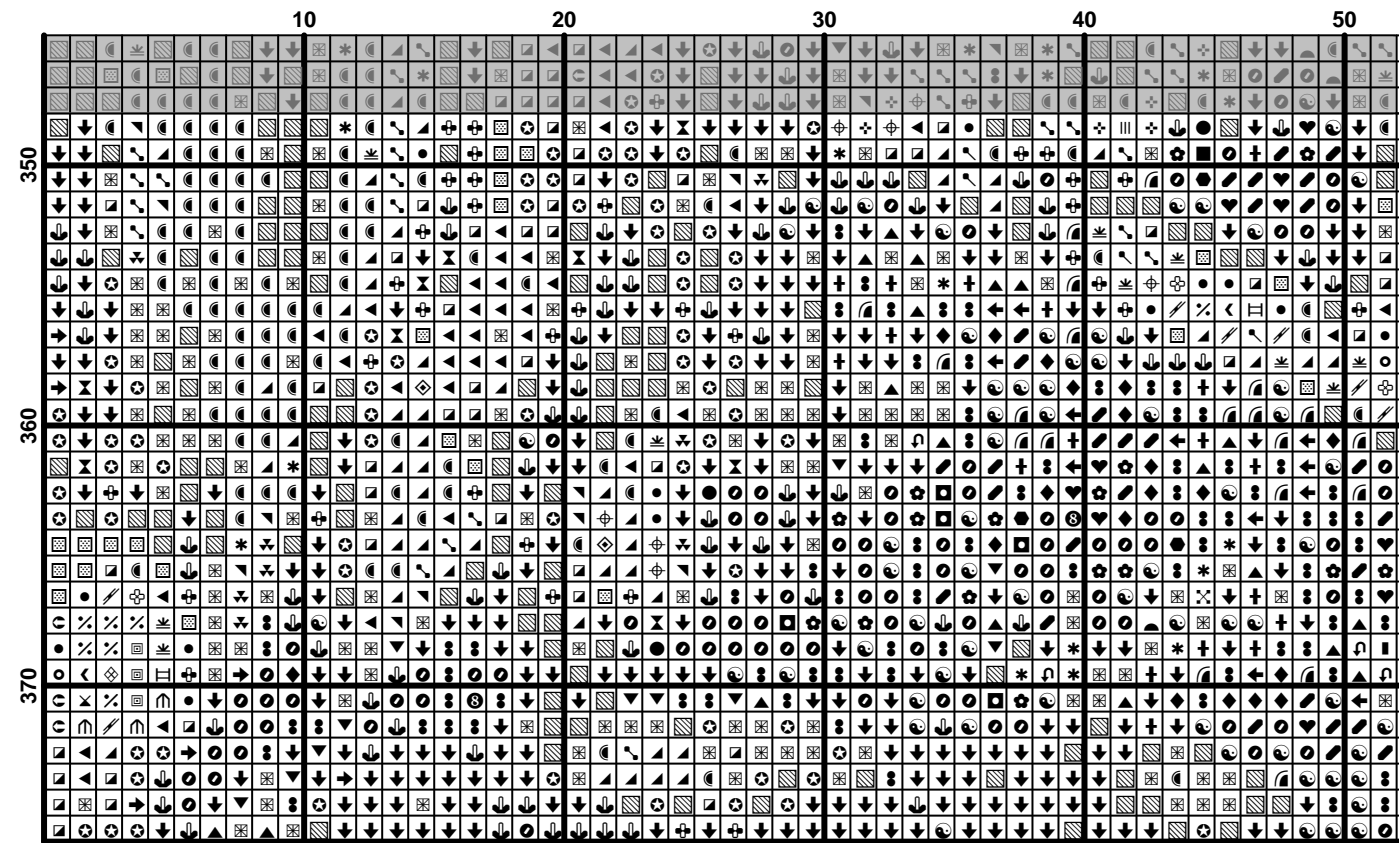


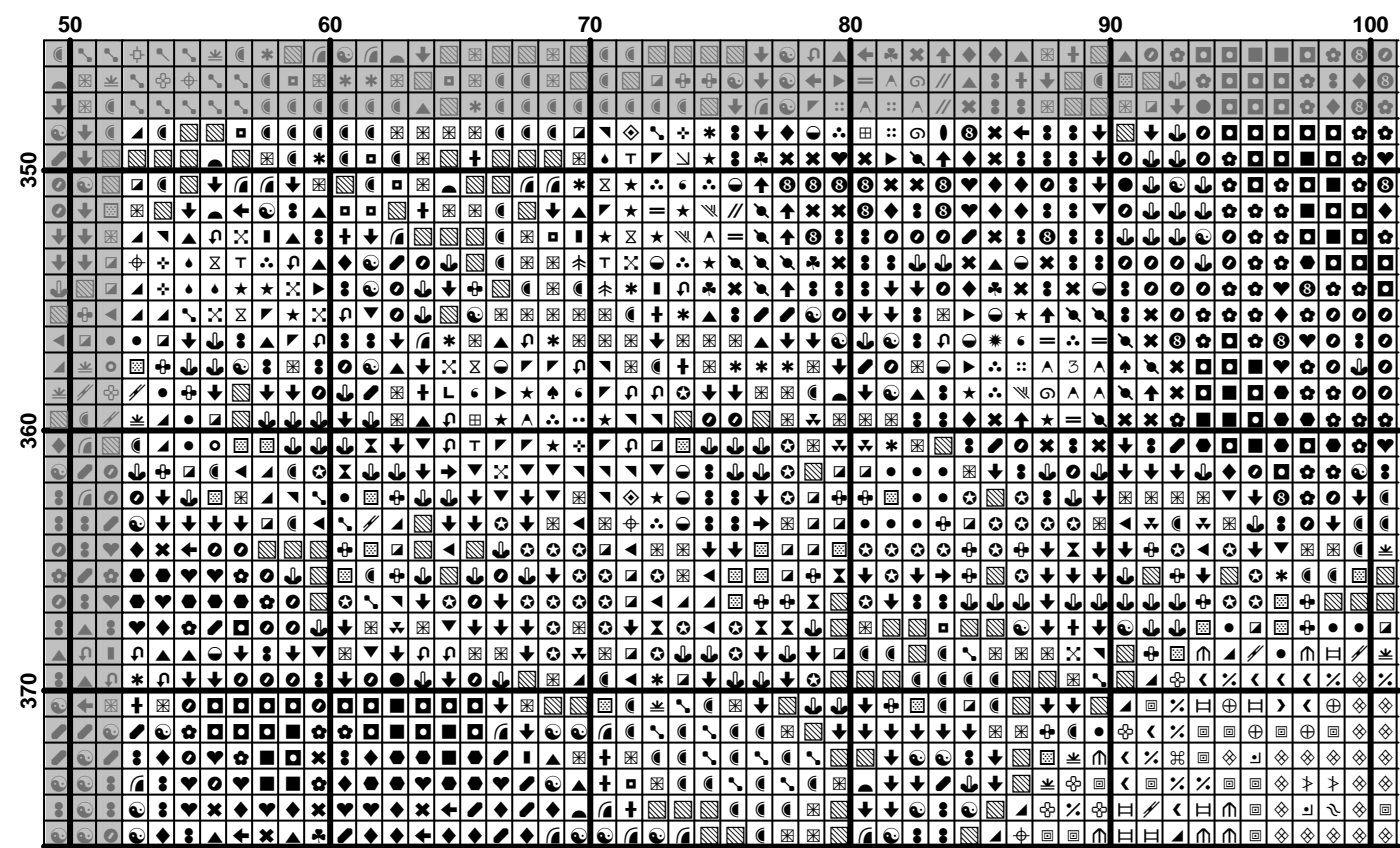
[illegible]

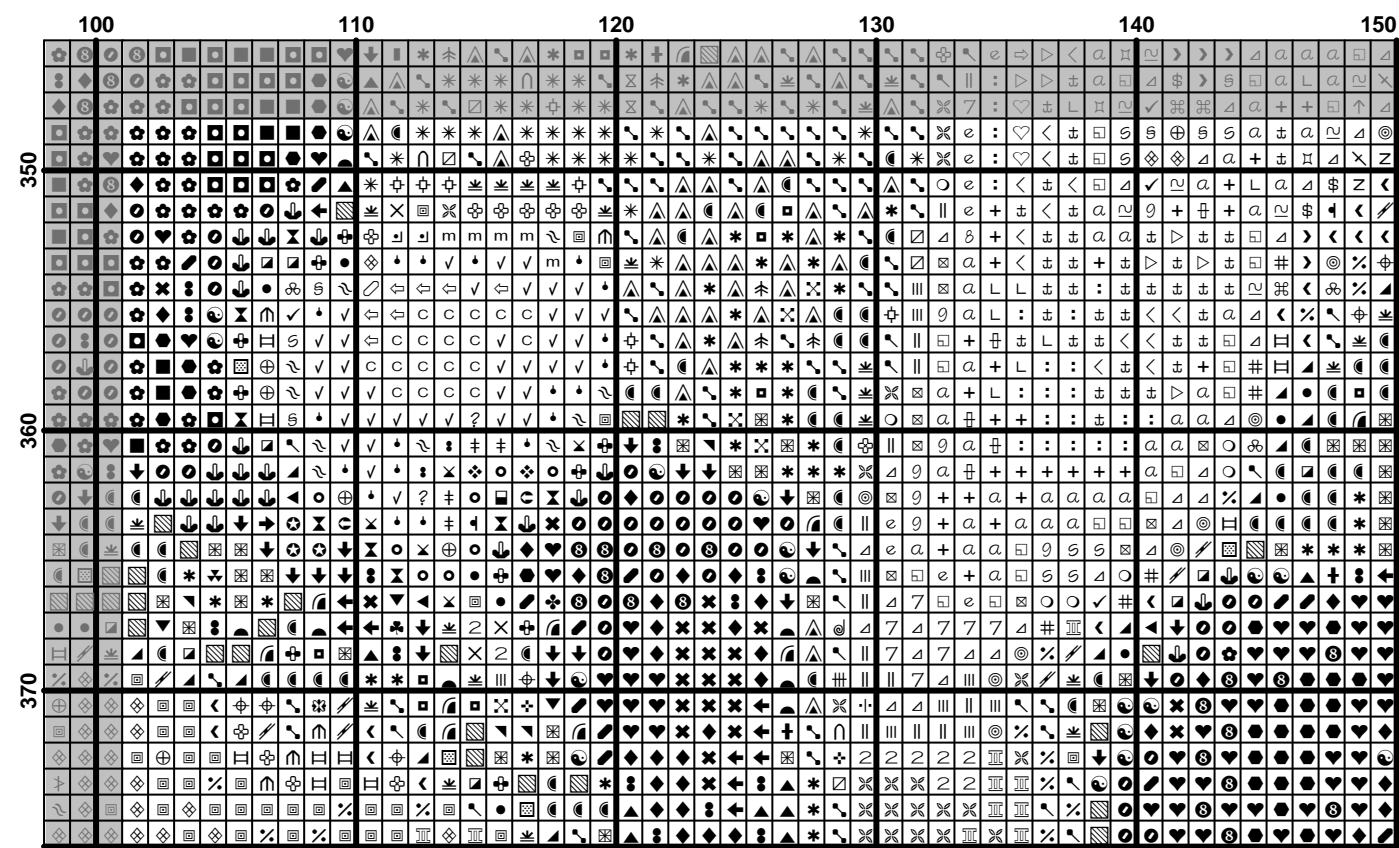


(78)









	150	160	170	180	190
350					
360					
370					

[illegible]

