

630 View of Cairo



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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.

It is easiest to start in the center of the design. 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 thread 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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View of Cairo

Stitch Count	
Horizontal:	799
Vertical:	416

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:	369	144.96	192	75.47	323	126.84	168	66.03	287	112.75	150	58.7
Including Margins:	385	151	208	82	339	133	184	73	303	119	166	65
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	516	202.94	268	105.65	430	169.12	224	88.04	215	84.56	112	44.02
Including Margins:	532	209	284	112	446	176	240	95	231	91	128	51
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	206	81.17	107	42.26	198	78.05	103	40.63	191	75.16	99	39.13
Including Margins:	222	88	123	49	214	85	119	47	207	82	115	46
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	184	72.48	96	37.73	172	67.64	89	35.21	161	63.42	84	33.01
Including Margins:	200	79	112	44	188	74	105	42	177	70	100	40

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
//	224	Shell Pink-VY LT
⦿	318	Steel Gray-LT
>	353	Peach
✚	356	Terra Cotta-MD
⊙	370	Mustard-MD
⦶	407	Desert Sand-DK
▨	413	Pewter Gray-DK
⦿	414	Steel Gray-DK
∨	415	Pearl Gray
∩	422	Hazelnut Brown-LT
←	434	Brown-LT
⊙	435	Brown-VY LT
	437	Tan-LT
▨	451	Shell Gray-DK
⦿	502	Blue Green
∩	503	Blue Green-MD
⇒	519	Sky Blue
⦶	523	Fern Green-LT
⦿	524	Fern Green-VY LT
+	543	Beige Brown-UL VY LT
↓	598	Turquoise-LT
▼	611	Drab Brown
⦿	612	Drab Brown-LT
▲	640	Beige Gray-VY DK
▨	642	Beige Gray-DK
✚	645	Beaver Gray-VY DK
✱	646	Beaver Gray-DK
⦿	647	Beaver Gray-MD
z	648	Beaver Gray-LT
(677	Old Gold-VY LT
⦿	731	Olive Green-DK
▨	738	Tan-VY LT
√	739	Tan-UL VY LT
•	746	Off White
⦿	754	Peach-LT
↑	794	Cornflower Blue-LT
↑	800	Delft Blue-Pale
e	822	Beige Gray-LT
≡	827	Blue-VY LT
▨	830	Golden Olive-DK
⦶	833	Golden Olive-LT
⦿	839	Beige Brown-DK
▨	926	Gray Green-MD

⦿	927	Gray Green-LT
⦿	928	Gray Green-VY LT
▲	931	Antique Blue-MD
✚	932	Antique Blue-LT
∩	950	Desert Sand-LT
⦿	973	Canary-BRT
●	3021	Brown Gray-VY DK
○	3024	Brown Gray-VY LT
■	3031	Mocha Brown-VY DK
⦿	3032	Mocha Brown-MD
✱	3041	Antique Violet-MD
▨	3042	Antique Violet-LT
⦿	3045	Yellow Beige-DK
m	3046	Yellow Beige-MD
=	3072	Beaver Gray-VY LT
1	3078	Golden Yellow-VY LT
◆	3362	Pine Green-DK
●	3363	Pine Green-MD
=	3364	Pine Green
\$	3733	Dusty Rose
◀	3740	Antique Violet-DK
5	3752	Antique Blue-VY LT
♂	3753	Antique Blue-UL VY LT
♂	3761	Sky Blue-LT
X	3766	Peacock Blue-LT
☆	3768	Gray Green-DK
«	3770	Tawny-VY LT
✱	3778	Terra Cotta-LT
⦿	3781	Mocha Brown-DK
↑	3787	Brown Gray-DK
↓	3790	Beige Gray-UL DK
∞	3811	Turquoise-VY LT
¼	3820	Straw-DK
:	3823	Yellow-UL Pale
3	3824	Apricot-LT
◇	3825	Pumpkin-Pale
∩	3827	Golden Brown-Pale
⊙	3828	Hazelnut Brown
⦿	3849	Teal Green-LT
✱	3853	Autumn Gold-DK
✱	3854	Autumn Gold-MD
c	3855	Autumn Gold-LT
g	3856	Mahogany-UL VY LT
⦿	3863	Mocha Beige-MD
▲	3864	Mocha Beige-LT
L	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
⊕	927	Gray Green-LT	928	Gray Green-VY LT
::	738	Tan-VY LT	739	Tan-UL VY LT
*	414	Steel Gray-DK	503	Blue Green-MD
∨	739	Tan-UL VY LT	950	Desert Sand-LT
⋄	739	Tan-UL VY LT	3823	Yellow-UL Pale
●	927	Gray Green-LT	503	Blue Green-MD
^	822	Beige Gray-LT	ecru	Ecru
☺	370	Mustard-MD	435	Brown-VY LT
×	738	Tan-VY LT	3856	Mahogany-UL VY LT
⊗	839	Beige Brown-DK	3031	Mocha Brown-VY DK
+	640	Beige Gray-VY DK	3032	Mocha Brown-MD
#	928	Gray Green-VY LT	932	Antique Blue-LT
✂	437	Tan-LT	3045	Yellow Beige-DK
♣	3790	Beige Gray-UL DK	3787	Brown Gray-DK
⊙	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
!	503	Blue Green-MD	646	Beaver Gray-DK
►	931	Antique Blue-MD	503	Blue Green-MD
⊙	3021	Brown Gray-VY DK	413	Pewter Gray-DK
†	611	Drab Brown	3790	Beige Gray-UL DK
⋄	932	Antique Blue-LT	926	Gray Green-MD
5	3855	Autumn Gold-LT	738	Tan-VY LT
↓	839	Beige Brown-DK	434	Brown-LT
⊙	3766	Peacock Blue-LT	794	Cornflower Blue-LT
⌞	932	Antique Blue-LT	598	Turquoise-LT
↖	932	Antique Blue-LT	3766	Peacock Blue-LT
	519	Sky Blue	827	Blue-VY LT
›	3752	Antique Blue-VY LT	3811	Turquoise-VY LT
◇	598	Turquoise-LT	519	Sky Blue
L	3752	Antique Blue-VY LT	932	Antique Blue-LT
⊕	928	Gray Green-VY LT	3752	Antique Blue-VY LT
2	3752	Antique Blue-VY LT	3072	Beaver Gray-VY LT
)	3753	Antique Blue-UL VY LT	ecru	Ecru
τ	3811	Turquoise-VY LT	827	Blue-VY LT
u	3811	Turquoise-VY LT	ecru	Ecru
4	3024	Brown Gray-VY LT	415	Pearl Gray
✂	647	Beaver Gray-MD	503	Blue Green-MD
♠	451	Shell Gray-DK	642	Beige Gray-DK
☾	502	Blue Green	645	Beaver Gray-VY DK
▣	926	Gray Green-MD	646	Beaver Gray-DK
♣	3768	Gray Green-DK	645	Beaver Gray-VY DK
Ω	3849	Teal Green-LT	931	Antique Blue-MD
↔	3849	Teal Green-LT	927	Gray Green-LT
⊕	738	Tan-VY LT	3863	Mocha Beige-MD
*	647	Beaver Gray-MD	3864	Mocha Beige-LT
⊙	435	Brown-VY LT	3853	Autumn Gold-DK
▣	434	Brown-LT	435	Brown-VY LT
➔	3790	Beige Gray-UL DK	434	Brown-LT
+	3863	Mocha Beige-MD	612	Drab Brown-LT
●	3362	Pine Green-DK	3031	Mocha Brown-VY DK
♥	839	Beige Brown-DK	3362	Pine Green-DK
✂	640	Beige Gray-VY DK	3790	Beige Gray-UL DK
▣	435	Brown-VY LT	3045	Yellow Beige-DK

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☾	435	Brown-VY LT	3863	Mocha Beige-MD
■	3031	Mocha Brown-VY DK	3021	Brown Gray-VY DK
///	3778	Terra Cotta-LT	3854	Autumn Gold-MD
⊕	3820	Straw-DK	356	Terra Cotta-MD
★	3853	Autumn Gold-DK	3820	Straw-DK
♣	648	Beaver Gray-LT	739	Tan-UL VY LT
≡	3864	Mocha Beige-LT	524	Fern Green-VY LT
—	754	Peach-LT	3823	Yellow-UL Pale
⊕	356	Terra Cotta-MD	3045	Yellow Beige-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	
224	Shell Pink-VY LT	108	42	103	40	93	36
318	Steel Gray-LT	56	22	53	20	48	18
353	Peach	21	8	20	7	18	7
356	Terra Cotta-MD	203	79	193	75	174	68
370	Mustard-MD	440	173	419	164	377	148
407	Desert Sand-DK	208	81	198	77	178	70
413	Pewter Gray-DK	56	22	54	21	48	18
414	Steel Gray-DK	149	58	142	55	128	50
415	Pearl Gray	651	256	620	244	558	219
422	Hazelnut Brown-LT	865	340	824	324	742	292
434	Brown-LT	740	291	705	277	634	249
435	Brown-VY LT	1059	416	1008	396	907	357
437	Tan-LT	657	258	626	246	563	221
451	Shell Gray-DK	450	177	429	168	386	151
502	Blue Green	91	35	87	34	78	30
503	Blue Green-MD	822	323	783	308	705	277
519	Sky Blue	3342	1315	3183	1253	2865	1127
523	Fern Green-LT	207	81	197	77	177	69
524	Fern Green-VY LT	2001	787	1906	750	1715	675
543	Beige Brown-UL VY LT	858	337	817	321	735	289
598	Turquoise-LT	4452	1752	4240	1669	3816	1502
611	Drab Brown	526	207	501	197	451	177
612	Drab Brown-LT	895	352	852	335	767	301
640	Beige Gray-VY DK	1381	543	1315	517	1184	466
642	Beige Gray-DK	1090	429	1038	408	934	367
645	Beaver Gray-VY DK	529	208	504	198	453	178
646	Beaver Gray-DK	585	230	557	219	501	197
647	Beaver Gray-MD	1612	634	1535	604	1382	544
648	Beaver Gray-LT	3146	1238	2997	1179	2697	1061
677	Old Gold-VY LT	1102	433	1050	413	945	372
731	Olive Green-DK	24	9	23	9	20	7
738	Tan-VY LT	4041	1590	3849	1515	3464	1363
739	Tan-UL VY LT	6119	2409	5827	2294	5245	2064
746	Off White	1792	705	1707	672	1536	604
754	Peach-LT	360	141	343	135	309	121
794	Cornflower Blue-LT	385	151	366	144	330	129
800	Delft Blue-Pale	27	10	26	10	23	9
822	Beige Gray-LT	1035	407	986	388	887	349
827	Blue-VY LT	3624	1426	3451	1358	3106	1222
830	Golden Olive-DK	125	49	119	46	107	42
833	Golden Olive-LT	101	39	96	37	86	33
839	Beige Brown-DK	659	259	628	247	565	222
926	Gray Green-MD	358	140	341	134	307	120
927	Gray Green-LT	2351	925	2239	881	2015	793
928	Gray Green-VY LT	3206	1262	3053	1201	2748	1081
931	Antique Blue-MD	85	33	81	31	73	28
932	Antique Blue-LT	2456	966	2339	920	2105	828
950	Desert Sand-LT	530	208	504	198	454	178
973	Canary-BRT	46	18	44	17	39	15
3021	Brown Gray-VY DK	206	81	196	77	177	69
3024	Brown Gray-VY LT	1265	498	1205	474	1085	427
3031	Mocha Brown-VY DK	770	303	733	288	660	259
3032	Mocha Brown-MD	875	344	833	327	750	295

3041	Antique Violet-MD	7	2	6	2	6	2
3042	Antique Violet-LT	64	25	61	24	54	21
3045	Yellow Beige-DK	991	390	944	371	849	334
3046	Yellow Beige-MD	480	188	457	179	411	161
3072	Beaver Gray-VY LT	2098	825	1998	786	1798	707
3078	Golden Yellow-VY LT	400	157	381	150	343	135
3362	Pine Green-DK	173	68	165	64	149	58
3363	Pine Green-MD	25	9	23	9	21	8
3364	Pine Green	44	17	42	16	37	14
3733	Dusty Rose	3	1	3	1	3	1
3740	Antique Violet-DK	9	3	8	3	7	2
3752	Antique Blue-VY LT	6851	2697	6525	2568	5873	2312
3753	Antique Blue-UL VY LT	1727	679	1645	647	1480	582
3761	Sky Blue-LT	681	268	649	255	584	229
3766	Peacock Blue-LT	2925	1151	2786	1096	2507	987
3768	Gray Green-DK	47	18	45	17	40	15
3770	Tawny-VY LT	441	173	420	165	378	148
3778	Terra Cotta-LT	111	43	106	41	95	37
3781	Mocha Brown-DK	229	90	218	85	196	77
3787	Brown Gray-DK	1024	403	975	383	878	345
3790	Beige Gray-UL DK	1981	779	1887	742	1698	668
3811	Turquoise-VY LT	3994	1572	3804	1497	3424	1348
3820	Straw-DK	208	81	198	77	179	70
3823	Yellow-UL Pale	2593	1020	2469	972	2222	874
3824	Apricot-LT	12	4	12	4	10	3
3825	Pumpkin-Pale	57	22	54	21	49	19
3827	Golden Brown-Pale	237	93	226	88	203	79
3828	Hazelnut Brown	266	104	254	100	228	89
3849	Teal Green-LT	263	103	250	98	225	88
3853	Autumn Gold-DK	286	112	272	107	245	96
3854	Autumn Gold-MD	155	61	148	58	133	52
3855	Autumn Gold-LT	945	372	900	354	810	318
3856	Mahogany-UL VY LT	339	133	323	127	291	114
3863	Mocha Beige-MD	1615	635	1538	605	1384	544
3864	Mocha Beige-LT	2470	972	2352	925	2117	833
ecru	Ecru	1268	499	1207	475	1087	427

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
224	Shell Pink-VY LT	167	65	140	54	70	27
318	Steel Gray-LT	86	32	72	27	36	14
353	Peach	32	13	27	11	14	5
356	Terra Cotta-MD	313	122	261	102	131	51
370	Mustard-MD	679	266	566	222	283	111
407	Desert Sand-DK	320	126	267	105	134	53
413	Pewter Gray-DK	86	32	72	27	36	14
414	Steel Gray-DK	230	90	192	75	96	38
415	Pearl Gray	1004	394	837	329	419	164
422	Hazelnut Brown-LT	1336	526	1113	438	557	219
434	Brown-LT	1141	448	951	374	476	187
435	Brown-VY LT	1633	643	1361	536	680	268
437	Tan-LT	1013	398	845	332	422	166
451	Shell Gray-DK	695	272	579	227	290	113
502	Blue Green	140	54	117	45	59	23
503	Blue Green-MD	1269	499	1058	416	529	208

519	Sky Blue	5157	2029	4298	1691	2149	845
523	Fern Green-LT	319	124	266	104	133	52
524	Fern Green-VY LT	3087	1215	2573	1013	1286	506
543	Beige Brown-UL VY LT	1323	520	1103	434	551	217
598	Turquoise-LT	6869	2704	5724	2253	2862	1127
611	Drab Brown	812	319	677	266	338	133
612	Drab Brown-LT	1381	542	1151	452	575	226
640	Beige Gray-VY DK	2131	839	1776	699	888	350
642	Beige Gray-DK	1681	661	1401	551	701	275
645	Beaver Gray-VY DK	815	320	680	267	340	134
646	Beaver Gray-DK	902	355	752	296	376	148
647	Beaver Gray-MD	2488	979	2073	816	1037	408
648	Beaver Gray-LT	4855	1910	4046	1592	2023	796
677	Old Gold-VY LT	1701	670	1418	558	709	279
731	Olive Green-DK	36	13	30	11	15	5
738	Tan-VY LT	6235	2453	5196	2045	2598	1022
739	Tan-UL VY LT	9441	3715	7868	3096	3934	1548
746	Off White	2765	1087	2304	906	1152	453
754	Peach-LT	556	218	464	182	232	91
794	Cornflower Blue-LT	594	232	495	194	248	97
800	Delft Blue-Pale	41	16	35	14	17	7
822	Beige Gray-LT	1597	628	1331	524	665	262
827	Blue-VY LT	5591	2200	4659	1833	2330	917
830	Golden Olive-DK	193	76	161	63	80	32
833	Golden Olive-LT	155	59	129	50	65	25
839	Beige Brown-DK	1017	400	848	333	424	167
926	Gray Green-MD	553	216	461	180	230	90
927	Gray Green-LT	3627	1427	3023	1190	1511	595
928	Gray Green-VY LT	4946	1946	4122	1622	2061	811
931	Antique Blue-MD	131	50	110	42	55	21
932	Antique Blue-LT	3789	1490	3158	1242	1579	621
950	Desert Sand-LT	817	320	681	267	341	134
973	Canary-BRT	70	27	59	23	29	11
3021	Brown Gray-VY DK	319	124	266	104	133	52
3024	Brown Gray-VY LT	1953	769	1628	641	814	320
3031	Mocha Brown-VY DK	1188	466	990	389	495	194
3032	Mocha Brown-MD	1350	531	1125	443	563	221
3041	Antique Violet-MD	11	4	9	3	5	2
3042	Antique Violet-LT	97	38	81	32	41	16
3045	Yellow Beige-DK	1528	601	1274	501	637	251
3046	Yellow Beige-MD	740	290	617	242	308	121
3072	Beaver Gray-VY LT	3236	1273	2697	1061	1349	530
3078	Golden Yellow-VY LT	617	243	515	203	257	101
3362	Pine Green-DK	268	104	224	87	112	44
3363	Pine Green-MD	38	14	32	12	16	6
3364	Pine Green	67	25	56	21	28	11
3733	Dusty Rose	5	2	5	2	2	1
3740	Antique Violet-DK	13	4	11	3	5	2
3752	Antique Blue-VY LT	10571	4162	8810	3468	4405	1734
3753	Antique Blue-UL VY LT	2664	1048	2220	873	1110	437
3761	Sky Blue-LT	1051	412	876	344	438	172
3766	Peacock Blue-LT	4513	1777	3761	1481	1880	740
3768	Gray Green-DK	72	27	60	23	30	11
3770	Tawny-VY LT	680	266	567	222	284	111
3778	Terra Cotta-LT	171	67	143	56	71	28
3781	Mocha Brown-DK	353	139	294	116	147	58
3787	Brown Gray-DK	1580	621	1317	518	659	259
3790	Beige Gray-UL DK	3056	1202	2547	1002	1274	501
3811	Turquoise-VY LT	6163	2426	5136	2022	2568	1011

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3820	Straw-DK	322	126	269	105	134	53
3823	Yellow-UL Pale	4000	1573	3333	1311	1667	656
3824	Apricot-LT	18	5	15	5	8	2
3825	Pumpkin-Pale	88	34	74	29	37	14
3827	Golden Brown-Pale	365	142	305	119	152	59
3828	Hazelnut Brown	410	160	342	134	171	67
3849	Teal Green-LT	405	158	338	132	169	66
3853	Autumn Gold-DK	441	173	368	144	184	72
3854	Autumn Gold-MD	239	94	200	78	100	39
3855	Autumn Gold-LT	1458	572	1215	477	608	239
3856	Mahogany-UL VY LT	524	205	437	171	218	86
3863	Mocha Beige-MD	2491	979	2076	816	1038	408
3864	Mocha Beige-LT	3811	1499	3176	1250	1588	625
ecru	Ecru	1957	769	1631	641	815	320

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
224	Shell Pink-VY LT	67	26	64	25	62	24
318	Steel Gray-LT	35	13	33	12	32	12
353	Peach	13	5	12	5	12	5
356	Terra Cotta-MD	125	49	120	47	116	45
370	Mustard-MD	271	107	261	102	251	99
407	Desert Sand-DK	128	50	123	48	119	47
413	Pewter Gray-DK	35	13	33	12	32	12
414	Steel Gray-DK	92	36	89	35	85	33
415	Pearl Gray	402	158	386	152	372	146
422	Hazelnut Brown-LT	534	210	514	202	495	195
434	Brown-LT	456	179	439	172	423	166
435	Brown-VY LT	653	257	628	247	605	238
437	Tan-LT	405	159	390	153	375	147
451	Shell Gray-DK	278	109	267	105	257	101
502	Blue Green	56	22	54	21	52	20
503	Blue Green-MD	508	199	488	192	470	185
519	Sky Blue	2063	811	1983	780	1910	751
523	Fern Green-LT	127	50	123	48	118	46
524	Fern Green-VY LT	1235	486	1187	467	1143	450
543	Beige Brown-UL VY LT	529	208	509	200	490	193
598	Turquoise-LT	2748	1081	2642	1040	2544	1001
611	Drab Brown	325	127	312	123	301	118
612	Drab Brown-LT	552	217	531	208	511	201
640	Beige Gray-VY DK	852	336	820	323	789	311
642	Beige Gray-DK	672	264	647	254	623	245
645	Beaver Gray-VY DK	326	128	314	123	302	119
646	Beaver Gray-DK	361	142	347	136	334	131
647	Beaver Gray-MD	995	392	957	377	921	363
648	Beaver Gray-LT	1942	764	1867	735	1798	707
677	Old Gold-VY LT	680	268	654	258	630	248
731	Olive Green-DK	14	5	14	5	13	5
738	Tan-VY LT	2494	981	2398	944	2309	909
739	Tan-UL VY LT	3776	1486	3631	1429	3497	1376
746	Off White	1106	435	1063	418	1024	403
754	Peach-LT	222	87	214	84	206	81
794	Cornflower Blue-LT	238	93	228	89	220	86
800	Delft Blue-Pale	17	6	16	6	15	6
822	Beige Gray-LT	639	251	614	242	591	233

827	Blue-VY LT	2236	880	2150	846	2071	815
830	Golden Olive-DK	77	30	74	29	71	28
833	Golden Olive-LT	62	24	60	23	57	22
839	Beige Brown-DK	407	160	391	154	377	148
926	Gray Green-MD	221	86	213	83	205	80
927	Gray Green-LT	1451	571	1395	549	1343	529
928	Gray Green-VY LT	1979	778	1902	748	1832	721
931	Antique Blue-MD	53	20	51	19	49	19
932	Antique Blue-LT	1516	596	1457	573	1403	552
950	Desert Sand-LT	327	128	314	123	303	119
973	Canary-BRT	28	11	27	10	26	10
3021	Brown Gray-VY DK	127	50	123	48	118	46
3024	Brown Gray-VY LT	781	307	751	296	723	285
3031	Mocha Brown-VY DK	475	186	457	179	440	173
3032	Mocha Brown-MD	540	212	519	204	500	197
3041	Antique Violet-MD	4	1	4	1	4	1
3042	Antique Violet-LT	39	15	37	15	36	14
3045	Yellow Beige-DK	611	240	588	231	566	223
3046	Yellow Beige-MD	296	116	285	111	274	107
3072	Beaver Gray-VY LT	1295	509	1245	489	1199	471
3078	Golden Yellow-VY LT	247	97	237	93	229	90
3362	Pine Green-DK	107	42	103	40	99	39
3363	Pine Green-MD	15	6	15	6	14	5
3364	Pine Green	27	10	26	10	25	9
3733	Dusty Rose	2	1	2	1	2	1
3740	Antique Violet-DK	5	1	5	1	5	1
3752	Antique Blue-VY LT	4229	1665	4066	1601	3915	1541
3753	Antique Blue-UL VY LT	1066	419	1025	403	987	388
3761	Sky Blue-LT	420	165	404	159	389	153
3766	Peacock Blue-LT	1805	711	1736	683	1671	658
3768	Gray Green-DK	29	11	28	10	27	10
3770	Tawny-VY LT	272	107	262	102	252	99
3778	Terra Cotta-LT	68	27	66	26	63	25
3781	Mocha Brown-DK	141	55	136	53	131	51
3787	Brown Gray-DK	632	248	608	239	585	230
3790	Beige Gray-UL DK	1223	481	1176	462	1132	445
3811	Turquoise-VY LT	2465	971	2370	933	2283	899
3820	Straw-DK	129	50	124	48	119	47
3823	Yellow-UL Pale	1600	629	1538	605	1481	583
3824	Apricot-LT	7	2	7	2	7	2
3825	Pumpkin-Pale	35	14	34	13	33	13
3827	Golden Brown-Pale	146	57	141	55	135	53
3828	Hazelnut Brown	164	64	158	62	152	59
3849	Teal Green-LT	162	63	156	61	150	59
3853	Autumn Gold-DK	176	69	170	66	163	64
3854	Autumn Gold-MD	96	37	92	36	89	35
3855	Autumn Gold-LT	583	229	561	220	540	212
3856	Mahogany-UL VY LT	210	82	201	79	194	76
3863	Mocha Beige-MD	996	392	958	377	923	363
3864	Mocha Beige-LT	1524	600	1466	577	1411	555
ecru	Ecrú	783	307	753	296	725	285

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
224	Shell Pink-VY LT	60	23	56	22	52	20
318	Steel Gray-LT	31	12	29	11	27	10

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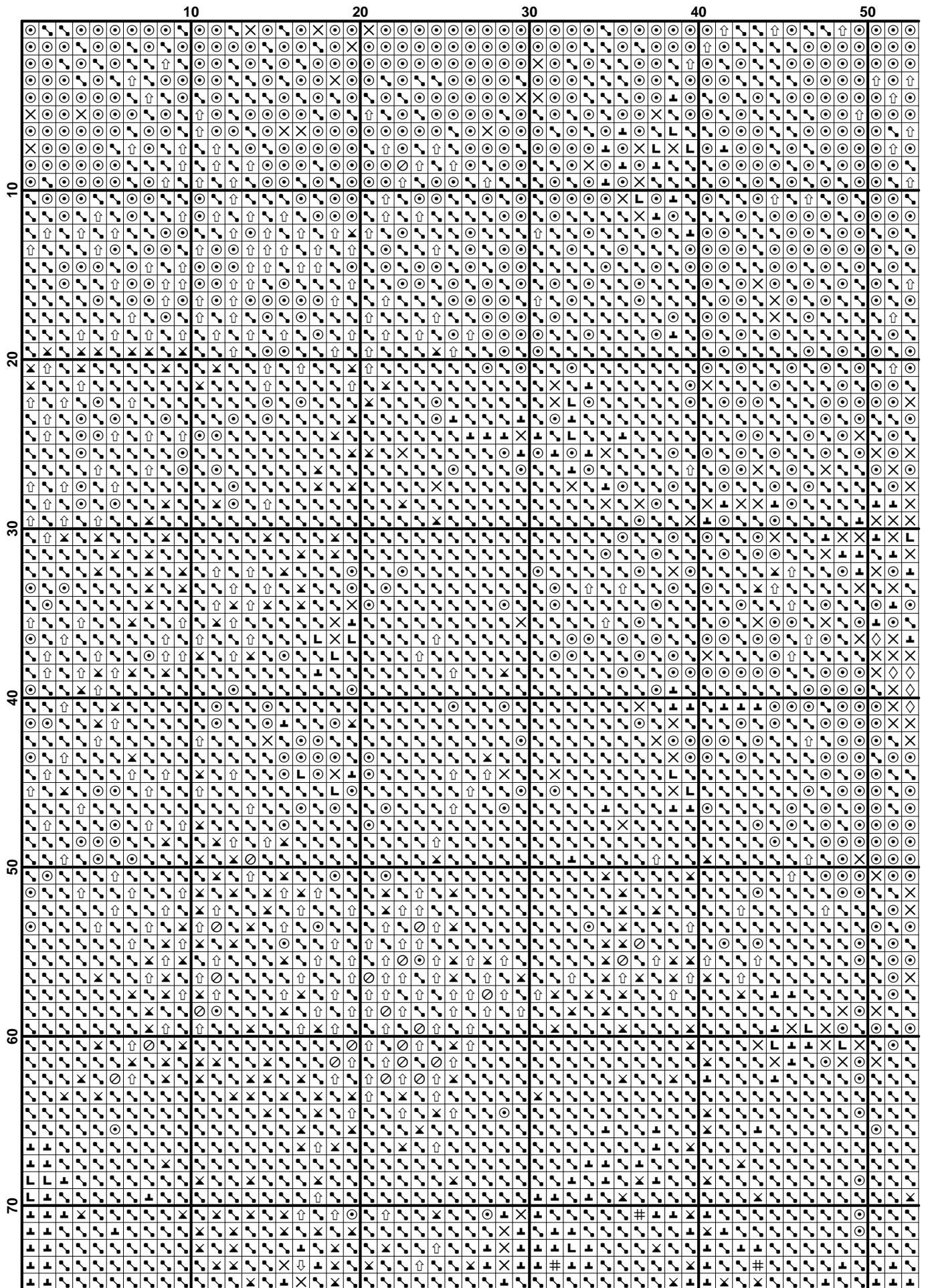
353	Peach	12	5	11	4	10	4
356	Terra Cotta-MD	112	44	104	41	98	38
370	Mustard-MD	242	95	226	89	212	83
407	Desert Sand-DK	114	45	107	42	100	39
413	Pewter Gray-DK	31	12	29	11	27	10
414	Steel Gray-DK	82	32	77	30	72	28
415	Pearl Gray	359	141	335	131	314	123
422	Hazelnut Brown-LT	477	188	445	175	417	164
434	Brown-LT	408	160	380	149	357	140
435	Brown-VY LT	583	230	544	214	510	201
437	Tan-LT	362	142	338	133	317	124
451	Shell Gray-DK	248	97	232	91	217	85
502	Blue Green	50	19	47	18	44	17
503	Blue Green-MD	453	178	423	166	397	156
519	Sky Blue	1842	725	1719	676	1612	634
523	Fern Green-LT	114	44	106	41	100	39
524	Fern Green-VY LT	1103	434	1029	405	965	380
543	Beige Brown-UL VY LT	473	186	441	173	413	163
598	Turquoise-LT	2453	966	2290	901	2147	845
611	Drab Brown	290	114	271	106	254	100
612	Drab Brown-LT	493	194	460	181	431	169
640	Beige Gray-VY DK	761	300	710	280	666	262
642	Beige Gray-DK	600	236	560	220	525	206
645	Beaver Gray-VY DK	291	114	272	107	255	100
646	Beaver Gray-DK	322	127	301	118	282	111
647	Beaver Gray-MD	888	350	829	326	777	306
648	Beaver Gray-LT	1734	682	1618	637	1517	597
677	Old Gold-VY LT	608	239	567	223	532	209
731	Olive Green-DK	13	5	12	4	11	4
738	Tan-VY LT	2227	876	2078	818	1949	767
739	Tan-UL VY LT	3372	1327	3147	1238	2950	1161
746	Off White	987	388	922	362	864	340
754	Peach-LT	199	78	185	73	174	68
794	Cornflower Blue-LT	212	83	198	77	186	73
800	Delft Blue-Pale	15	6	14	5	13	5
822	Beige Gray-LT	570	224	532	209	499	196
827	Blue-VY LT	1997	786	1864	733	1747	687
830	Golden Olive-DK	69	27	64	25	60	24
833	Golden Olive-LT	55	21	52	20	48	19
839	Beige Brown-DK	363	143	339	133	318	125
926	Gray Green-MD	197	77	184	72	173	68
927	Gray Green-LT	1295	510	1209	476	1133	446
928	Gray Green-VY LT	1767	695	1649	649	1546	608
931	Antique Blue-MD	47	18	44	17	41	16
932	Antique Blue-LT	1353	532	1263	497	1184	466
950	Desert Sand-LT	292	114	272	107	255	100
973	Canary-BRT	25	10	23	9	22	8
3021	Brown Gray-VY DK	114	44	106	41	100	39
3024	Brown Gray-VY LT	698	275	651	256	610	240
3031	Mocha Brown-VY DK	424	167	396	155	371	146
3032	Mocha Brown-MD	482	190	450	177	422	166
3041	Antique Violet-MD	4	1	4	1	3	1
3042	Antique Violet-LT	35	14	32	13	30	12
3045	Yellow Beige-DK	546	215	509	200	478	188
3046	Yellow Beige-MD	264	104	247	97	231	91
3072	Beaver Gray-VY LT	1156	455	1079	424	1011	398
3078	Golden Yellow-VY LT	221	87	206	81	193	76
3362	Pine Green-DK	96	37	89	35	84	33
3363	Pine Green-MD	14	5	13	5	12	5

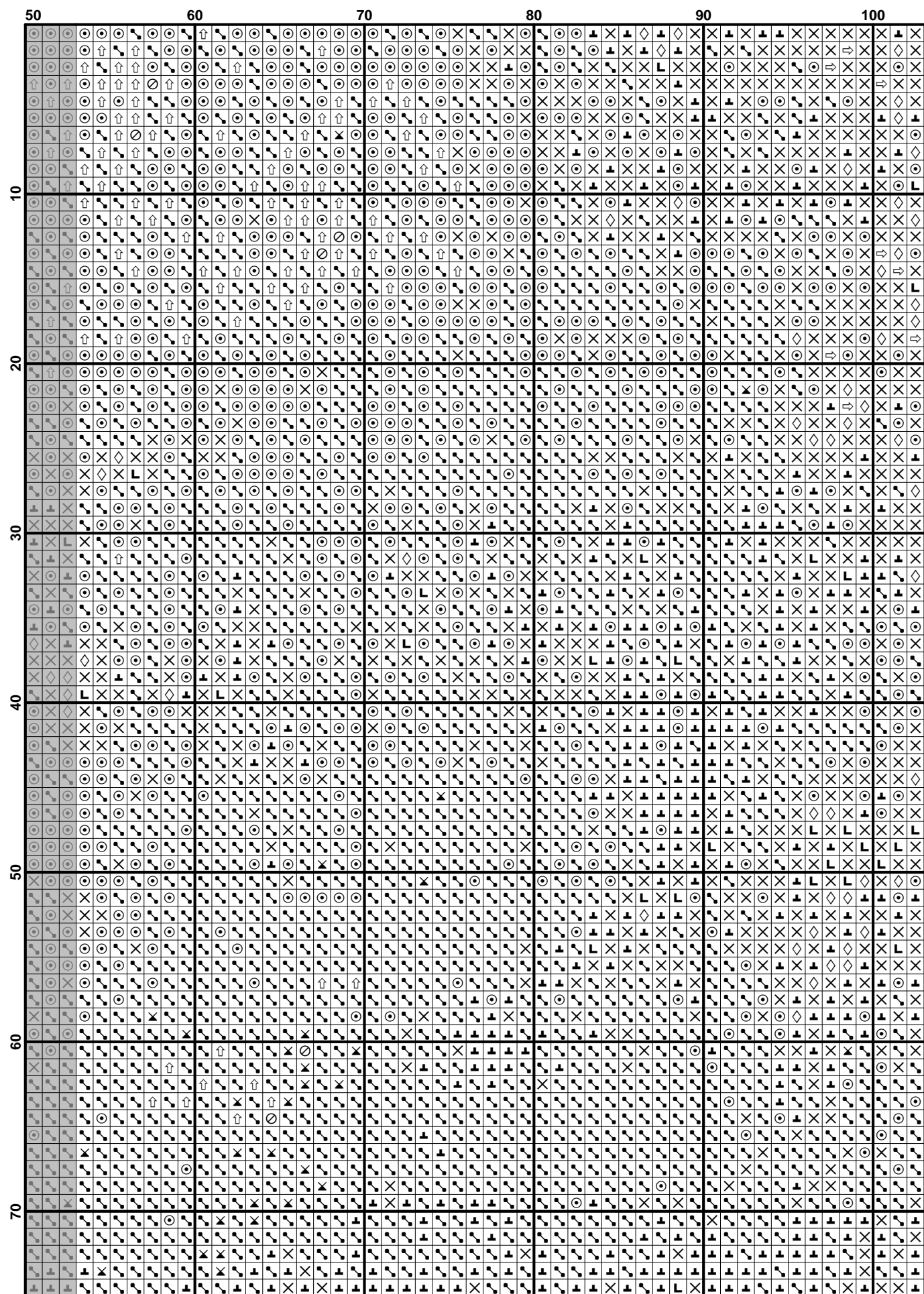
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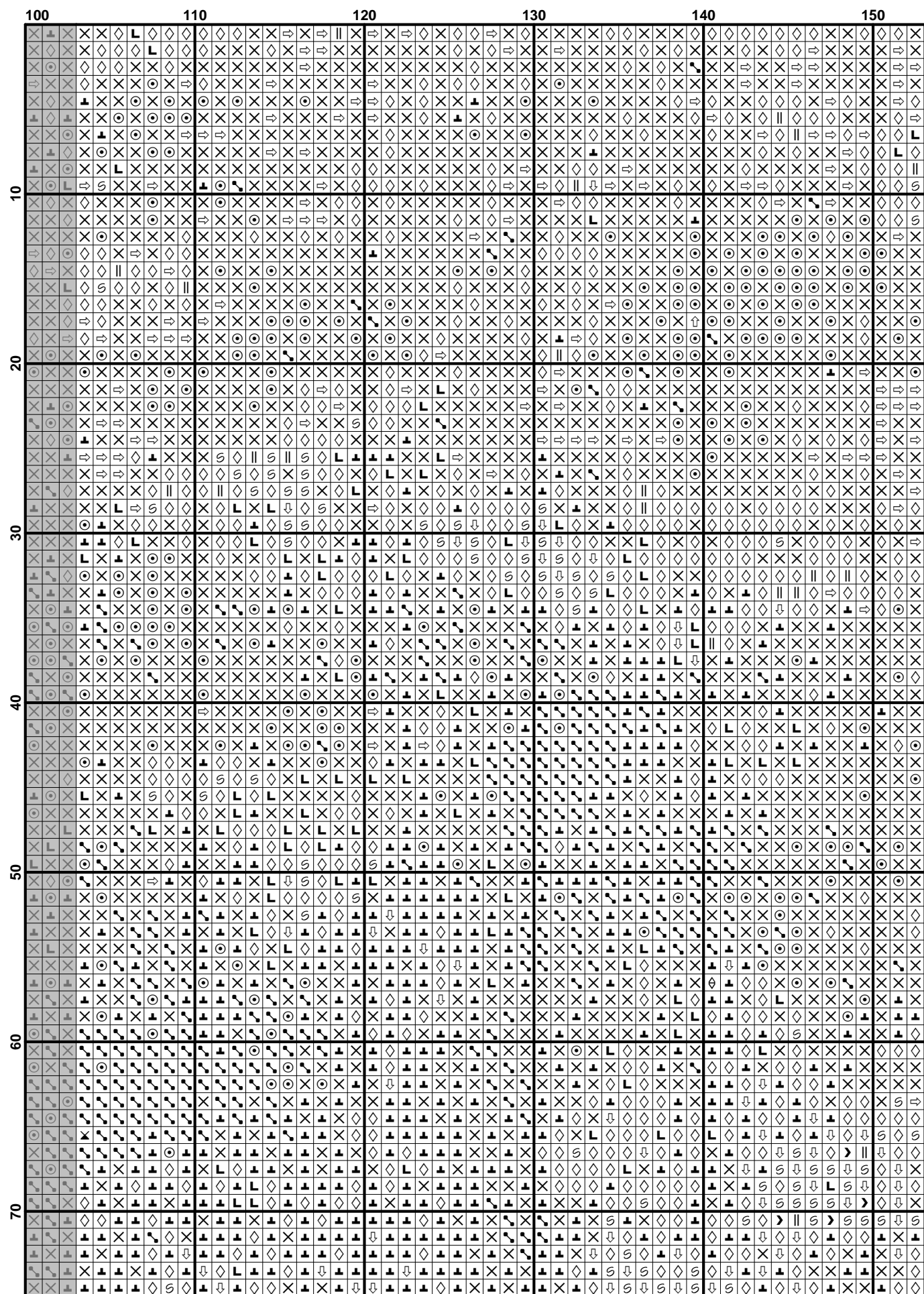
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3364	Pine Green	24	9	22	8	21	8
3733	Dusty Rose	2	1	2	1	2	1
3740	Antique Violet-DK	5	1	4	1	4	1
3752	Antique Blue-VY LT	3776	1486	3524	1387	3304	1301
3753	Antique Blue-UL VY LT	951	374	888	349	833	327
3761	Sky Blue-LT	375	147	350	137	329	129
3766	Peacock Blue-LT	1612	635	1504	592	1410	555
3768	Gray Green-DK	26	10	24	9	23	8
3770	Tawny-VY LT	243	95	227	89	213	83
3778	Terra Cotta-LT	61	24	57	22	53	21
3781	Mocha Brown-DK	126	50	118	46	110	43
3787	Brown Gray-DK	564	222	527	207	494	194
3790	Beige Gray-UL DK	1092	429	1019	401	955	376
3811	Turquoise-VY LT	2201	867	2054	809	1926	758
3820	Straw-DK	115	45	107	42	101	39
3823	Yellow-UL Pale	1428	562	1333	524	1250	492
3824	Apricot-LT	6	2	6	2	6	2
3825	Pumpkin-Pale	32	12	29	11	28	11
3827	Golden Brown-Pale	131	51	122	47	114	44
3828	Hazelnut Brown	147	57	137	53	128	50
3849	Teal Green-LT	145	57	135	53	127	50
3853	Autumn Gold-DK	158	62	147	58	138	54
3854	Autumn Gold-MD	86	33	80	31	75	29
3855	Autumn Gold-LT	521	204	486	191	456	179
3856	Mahogany-UL VY LT	187	73	175	68	164	64
3863	Mocha Beige-MD	890	350	830	326	779	306
3864	Mocha Beige-LT	1361	536	1270	500	1191	469
ecru	Ecru	699	275	652	256	611	240







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

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

$$(22) \quad \mathcal{H}^{\text{reg}}_{\text{reg}} = \mathcal{H}^{\text{reg}}_{\text{reg}} \quad (23)$$

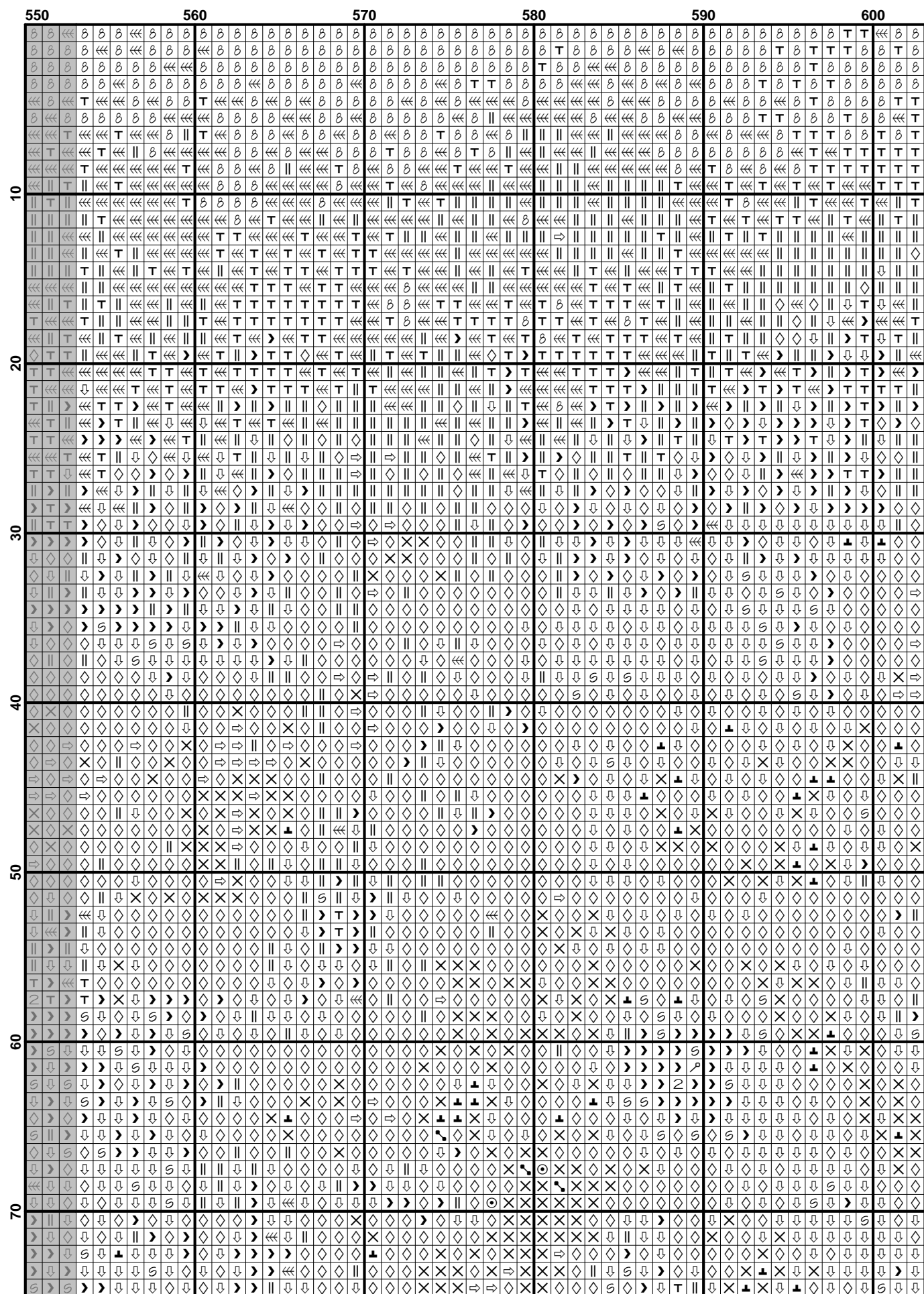
$$(23) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (24)$$

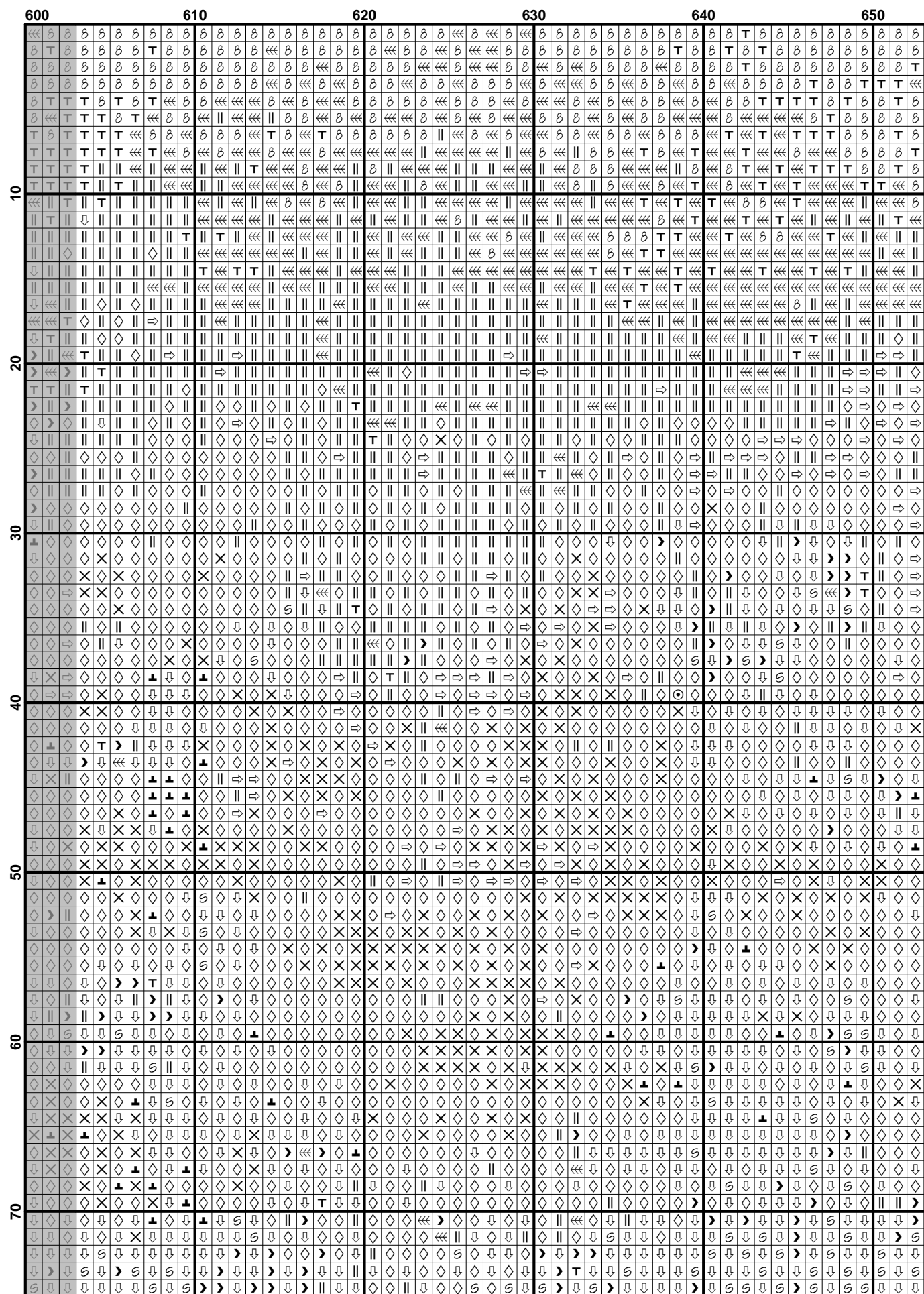
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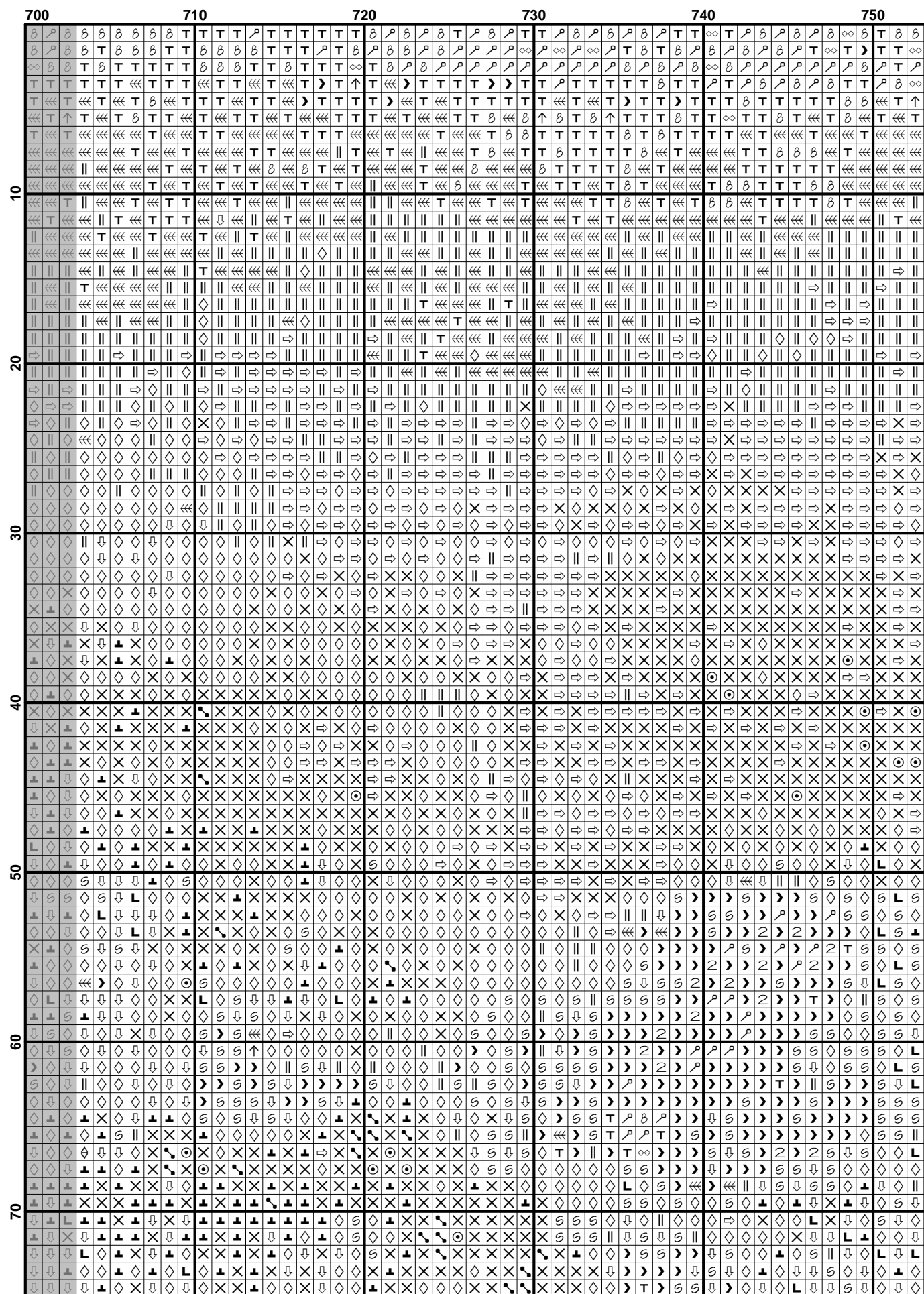
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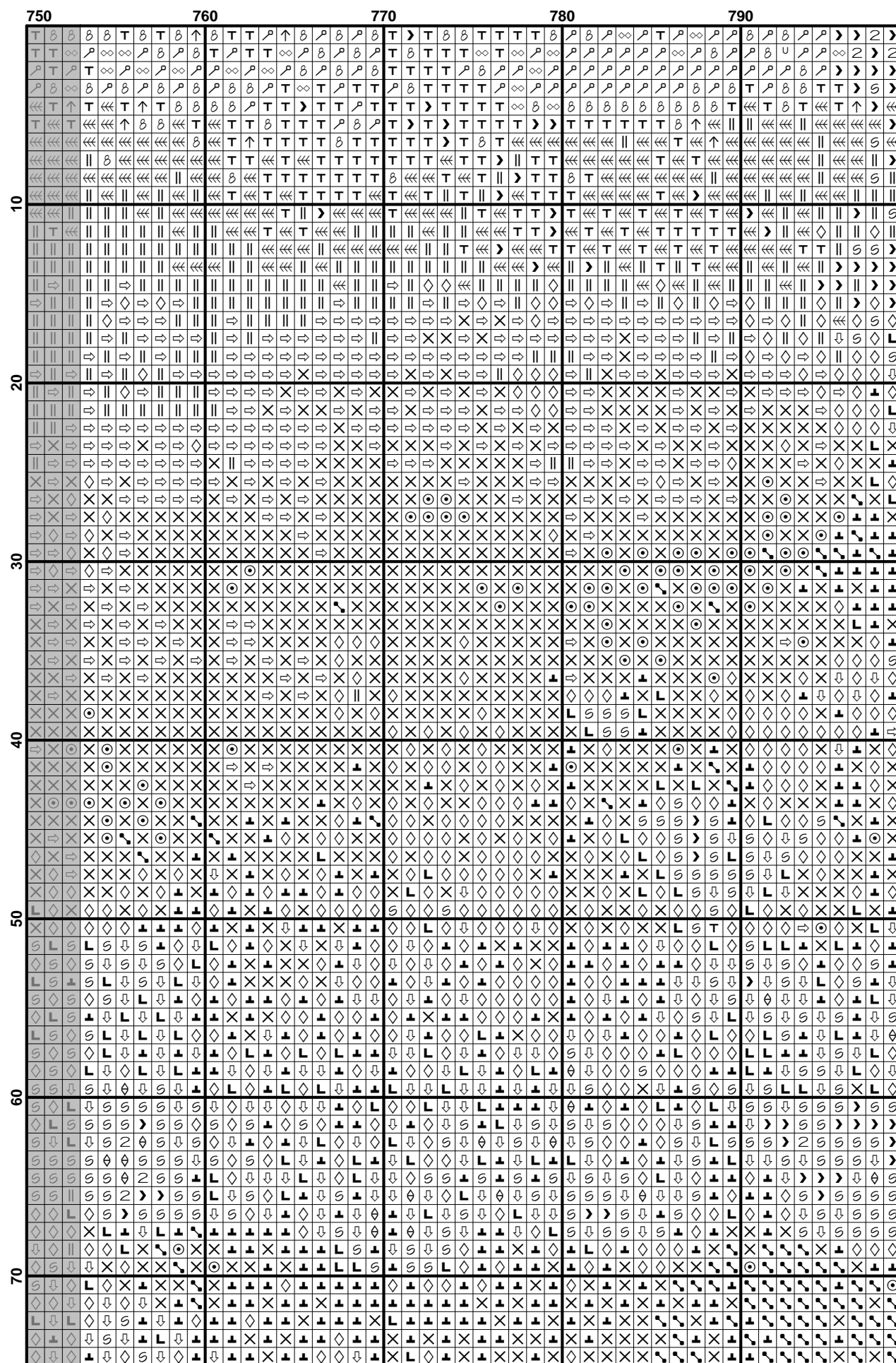
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[illegible]

	300	310	320	330	340	350
80	→ ↗ ↘ ↙ ↚ ↛ ↜ ↝ ↞ ↠ ↡ ↢ ↣ ↤ ↥ ↦ ↧ ↨ ↩ ↪ ↫ ↬ ↭ ↮ ↯ ↰ ↱ ↲ ↳ ↴ ↵ ↶ ↷ ↸ ↹ ↺ ↻ ↼ ↽ ↾ ↿ ⇀ ⇁ ⇂ ⇃ ⇄ ⇅ ⇆ ⇇ ⇈ ⇉ ⇊ ⇋ ⇌ ⇍ ⇎ ⇏ ⇐ ⇑ ⇒ ⇓ ⇔ ⇕ ⇖ ⇗ ⇘ ⇙ ⇚ ⇛ ⇜ ⇝ ⇞ ⇟ ⇠ ⇡ ⇢ ⇣ ⇤ ⇥ ⇦ ⇧ ⇨ ⇩ ⇪ ⇫ ⇬ ⇭ ⇮ ⇯ ⇰ ⇱ ⇲ ⇳ ⇴ ⇵ ⇶ ⇷ ⇸ ⇹ ⇺ ⇻ ⇼ ⇽ ⇾ ⇿ ⤀ ⤁ ⤂ ⤃ ⤄ ⤅ ⤆ ⤇ ⤈ ⤉ ⤊ ⤋ ⤌ ⤍ ⤎ ⤏ ⤐ ⤑ ⤒ ⤓ ⤔ ⤕ ⤖ ⤗ ⤘ ⤙ ⤚ ⤛ ⤜ ⤝ ⤞ ⤟ ⤠ ⤡ ⤢ ⤣ ⤤ ⤥ ⤦ ⤧ ⤨ ⤩ ⤪ ⤫ ⤬ ⤭ ⤮ ⤯ ⤰ ⤱ ⤲ ⤳ ⤴ ⤵ ⤶ ⤷ ⤸ ⤹ ⤺ ⤻ ⤼ ⤽ ⤿ ⥀ ⥁ ⥂ ⥃ ⥄ ⥅ ⥆ ⥇ ⥈ ⥉ ⥊ ⥋ ⥌ ⥍ ⥎ ⥏ ⥐ ⥑ ⥒ ⥓ ⥔ ⥕ ⥖ ⥗ ⥘ ⥙ ⥚ ⥛ ⥜ ⥝ ⥞ ⥟ ⥠ ⥡ ⥢ ⥣ ⥤ ⥥ ⥦ ⥧ ⥨ ⥩ ⥪ ⥫ ⥬ ⥭ ⥮ ⥯ ⥰ ⥱ ⥲ ⥳ ⥴ ⥵ ⥶ ⥷ ⥸ ⥹ ⥺ ⥻ ⥼ ⥽ ⥾ ⥿ ⦀ ⦁ ⦂ ⦃ ⦄ ⦅ ⦆ ⦇ ⦈ ⦉ ⦊ ⦋ ⦌ ⦍ ⦎ ⦏ ⦐ ⦑ ⦒ ⦓ ⦔ ⦕ ⦖ ⦗ ⦘ ⦙ ⦚ ⦛ ⦜ ⦝ ⦞ ⦟ ⦠ ⦡ ⦢ ⦣ ⦤ ⦥ ⦦ ⦧ ⦨ ⦩ ⦪ ⦫ ⦬ ⦭ ⦮ ⦯ ⦰ ⦱ ⦲ ⦳ ⦴ ⦵ ⦶ ⦷ ⦸ ⦹ ⦺ ⦻ ⦼ ⦽ ⦾ ⦿ ⧀ ⧁ ⧂ ⧃ ⧄ ⧅ ⧆ ⧇ ⧈ ⧉ ⧊ ⧋ ⧌ ⧍ ⧎ ⧏ ⧐ ⧑ ⧒ ⧓ ⧔ ⧕ ⧖ ⧗ ⧘ ⧙ ⧚ ⧛ ⧜ ⧝ ⧞ ⧟ ⧠ ⧡ ⧢ ⧣ ⧤ ⧥ ⧦ ⧧ ⧨ ⧩ ⧪ ⧫ ⧬ ⧭ ⧮ ⧯ ⧰ ⧱ ⧲ ⧳ ⧴ ⧵ ⧶ ⧷ ⧸ ⧹ ⧺ ⧻ ⧼ ⧽ ⧾ ⧿ ⨀ ⨁ ⨂ ⨃ ⨄ ⨅ ⨆ ⨇ ⨈ ⨉ ⨊ ⨋ ⨌ ⨍ ⨎ ⨏ ⨐ ⨑ ⨒ ⨓ ⨔ ⨕ ⨖ ⨗ ⨘ ⨙ ⨚ ⨛ ⨜ ⨝ ⨞ ⨟ ⨠ ⨡ ⨢ ⨣ ⨤ ⨥ ⨦ ⨧ ⨨ ⨩ ⨪ ⨫ ⨬ ⨭ ⨮ ⨯ ⨰ ⨱ ⨲ ⨳ ⨴ ⨵ ⨶ ⨷ ⨸ ⨹ ⨺ ⨻ ⨼ ⨽ ⨾ ⨿ ⩀ ⩁ ⩂ ⩃ ⩄ ⩅ ⩆ ⩇ ⩈ ⩉ ⩊ ⩋ ⩌ ⩍ ⩎ ⩏ ⩐ ⩑ ⩒ ⩓ ⩔ ⩕ ⩖ ⩗ ⩘ ⩙ ⩚ ⩛ ⩜ ⩝ ⩞ ⩟ ⩠ ⩡ ⩢ ⩣ ⩤ ⩥ ⩦ ⩧ ⩨ ⩩ ⩪ ⩫ ⩬ ⩭ ⩮ ⩯ ⩰ ⩱ ⩲ ⩳ ⩴ ⩵ ⩶ ⩷ ⩸ ⩹ ⩺ ⩻ ⩼ ⩽ ⩾ ⩿ ⪀ ⪁ ⪂ ⪃ ⪄ ⪅ ⪆ ⪇ ⪈ ⪉ ⪊ ⪋ ⪌ ⪍ ⪎ ⪏ ⪐ ⪑ ⪒ ⪓ ⪔ ⪕ ⪖ ⪗ ⪘ ⪙ ⪚ ⪛ ⪜ ⪝ ⪞ ⪟ ⪠ ⪡ ⪢ ⪣ ⪤ ⪥ ⪦ ⪧ ⪨ ⪩ ⪪ ⪫ ⪬ ⪭ ⪮ ⪯ ⪰ ⪱ ⪲ ⪳ ⪴ ⪵ ⪶ ⪷ ⪸ ⪹ ⪺ ⪻ ⪼ ⪽ ⪾ ⪿ ⫀ ⫁ ⫂ ⫃ ⫄ ⫅ ⫆ ⫇ ⫈ ⫉ ⫊ ⫋ ⫌ ⫍ ⫎ ⫏ ⫐ ⫑ ⫒ ⫓ ⫔ ⫕ ⫖ ⫗ ⫘ ⫙ ⫚ ⫛ ⫝̸ ⫝ ⫞ ⫟ ⫠ ⫡ ⫢ ⫣ ⫤ ⫥ ⫦ ⫧ ⫨ ⫩ ⫪ ⫫ ⫬ ⫭ ⫮ ⫯ ⫰ ⫱ ⫲ ⫳ ⫴ ⫵ ⫶ ⫷ ⫸ ⫹ ⫺ ⫻ ⫼ ⫽ ⫾ ⫿ ⬀ ⬁ ⬂ ⬃ ⬄ ⬅ ⬆ ⬇ ⬈ ⬉ ⬊ ⬋ ⬌ ⬍ ⬎ ⬏ ⬐ ⬑ ⬒ ⬓ ⬔ ⬕ ⬖ ⬗ ⬘ ⬙ ⬚ ⬛ ⬜ ⬝ ⬞ ⬟ ⬠ ⬡ ⬢ ⬣ ⬤ ⬥ ⬦ ⬧ ⬨ ⬩ ⬪ ⬫ ⬬ ⬭ ⬮ ⬯ ⬰ ⬱ ⬲ ⬳ ⬴ ⬵ ⬶ ⬷ ⬸ ⬹ ⬺ ⬻ ⬼ ⬽ ⬾ ⬿ ⭀ ⭁ ⭂ ⭃ ⭄ ⭅ ⭆ ⭇ ⭈ ⭉ ⭊ ⭋ ⭌ ⭍ ⭎ ⭏ ⭐ ⭑ ⭒ ⭓ ⭔ ⭕ ⭖ ⭗ ⭘ ⭙ ⭚ ⭛ ⭜ ⭝ ⭞ ⭟ ⭠ ⭡ ⭢ ⭣ ⭤ ⭥ ⭦ ⭧ ⭨ ⭩ ⭪ ⭫ ⭬ ⭭ ⭮ ⭯ ⭰ ⭱ ⭲ ⭳ ⭴ ⭵ ⭶ ⭷ ⭸ ⭹ ⭺ ⭻ ⭼ ⭽ ⭾ ⭿ ⮀ ⮁ ⮂ ⮃ ⮄ ⮅ ⮆ ⮇ ⮈ ⮉ ⮊ ⮋ ⮌ ⮍ ⮎ ⮏ ⮐ ⮑ ⮒ ⮓ ⮔ ⮕ ⮖ ⮗ ⮘ ⮙ ⮚ ⮛ ⮜ ⮝ ⮞ ⮟ ⮠ ⮡ ⮢ ⮣ ⮤ ⮥ ⮦ ⮧ ⮨ ⮩ ⮪ ⮫ ⮬ ⮭ ⮮ ⮯ ⮰ ⮱ ⮲ ⮳ ⮴ ⮵ ⮶ ⮷ ⮸ ⮹ ⮺ ⮻ ⮼ ⮽ ⮾ ⮿ ⯀ ⯁ ⯂ ⯃ ⯄ ⯅ ⯆ ⯇ ⯈ ⯉ ⯊ ⯋ ⯌ ⯍ ⯎ ⯏ ⯐ ⯑ ⯒ ⯓ ⯔ ⯕ ⯖ ⯗ ⯘ ⯙ ⯚ ⯛ ⯜ ⯝ ⯞ ⯟ ⯠ ⯡ ⯢ ⯣ ⯤ ⯥ ⯦ ⯧ ⯨ ⯩ ⯪ ⯫ ⯬ ⯭ ⯮ ⯯ ⯰ ⯱ ⯲ ⯳ ⯴ ⯵ ⯶ ⯷ ⯸ ⯹ ⯺ ⯻ ⯼ ⯽ ⯾ ⯿ Ⰰ Ⰱ Ⰲ Ⰳ Ⰴ Ⰵ Ⰶ Ⰷ Ⰸ Ⰹ Ⰺ Ⰻ Ⰼ Ⰽ Ⰾ Ⰿ Ⱀ Ⱁ Ⱂ Ⱃ Ⱄ Ⱅ Ⱆ Ⱇ Ⱈ Ⱉ Ⱊ Ⱋ Ⱌ Ⱍ Ⱎ Ⱏ Ⱐ Ⱑ Ⱒ Ⱓ Ⱔ Ⱕ Ⱖ Ⱗ Ⱘ Ⱙ Ⱚ Ⱛ Ⱜ Ⱝ Ⱞ Ⱟ ⰰ ⰱ ⰲ ⰳ ⰴ ⰵ ⰶ ⰷ ⰸ ⰹ ⰺ ⰻ ⰼ ⰽ ⰾ ⰿ ⱀ ⱁ ⱂ ⱃ ⱄ ⱅ ⱆ ⱇ ⱈ ⱉ ⱊ ⱋ ⱌ ⱍ ⱎ ⱏ ⱐ ⱑ ⱒ ⱓ ⱔ ⱕ ⱖ ⱗ ⱘ ⱙ ⱚ ⱛ ⱜ ⱝ ⱞ ⱟ Ⱡ ⱡ Ɫ Ᵽ Ɽ ⱥ ⱦ Ⱨ ⱨ Ⱪ ⱪ Ⱬ ⱬ Ɑ Ɱ Ɐ Ɒ ⱱ Ⱳ ⱳ ⱴ Ⱶ ⱶ ⱷ ⱸ ⱹ ⱺ ⱻ ⱼ ⱽ Ȿ Ɀ Ⲁ ⲁ Ⲃ ⲃ Ⲅ ⲅ Ⲇ ⲇ Ⲉ ⲉ Ⲋ ⲋ Ⲍ ⲍ Ⲏ ⲏ Ⲑ ⲑ Ⲓ ⲓ Ⲕ ⲕ Ⲗ ⲗ Ⲙ ⲙ Ⲛ ⲛ Ⲝ ⲝ Ⲟ ⲟ Ⲡ ⲡ Ⲣ ⲣ Ⲥ ⲥ Ⲧ ⲧ Ⲩ ⲩ Ⲫ ⲫ Ⲭ ⲭ Ⲯ ⲯ Ⲱ ⲱ Ⲳ ⲳ Ⲵ ⲵ Ⲷ ⲷ Ⲹ ⲹ Ⲻ ⲻ Ⲽ ⲽ Ⲿ ⲿ Ⳁ ⳁ Ⳃ ⳃ Ⳅ ⳅ Ⳇ ⳇ Ⳉ ⳉ Ⳋ ⳋ Ⳍ ⳍ Ⳏ ⳏ Ⳑ ⳑ Ⳓ ⳓ Ⳕ ⳕ Ⳗ ⳗ Ⳙ ⳙ Ⳛ ⳛ Ⳝ ⳝ Ⳟ ⳟ Ⳡ ⳡ Ⳣ ⳣ ⳤ ⳥ ⳦ ⳧ ⳨ ⳩ ⳪ Ⳬ ⳬ Ⳮ ⳮ ⳯ ⳰ ⳱ Ⳳ ⳳ ⳴ ⳵ ⳶ ⳷ ⳸ ⳹ ⳺ ⳻ ⳼ ⳽ ⳾ ⳿ ⴀ ⴁ ⴂ ⴃ ⴄ ⴅ ⴆ ⴇ ⴈ ⴉ ⴊ ⴋ ⴌ ⴍ ⴎ ⴏ ⴐ ⴑ ⴒ ⴓ ⴔ ⴕ ⴖ ⴗ ⴘ ⴙ ⴚ ⴛ ⴜ ⴝ ⴞ ⴟ ⴠ ⴡ ⴢ ⴣ ⴤ ⴥ ⴦ ⴧ ⴨ ⴩ ⴪ ⴫ ⴬ ⴭ ⴮ ⴯ ⴰ ⴱ ⴲ ⴳ ⴴ ⴵ ⴶ ⴷ ⴸ ⴹ ⴺ ⴻ ⴼ ⴽ ⴾ ⴿ ⵀ ⵁ ⵂ ⵃ ⵄ ⵅ ⵆ ⵇ ⵈ ⵉ ⵊ ⵋ ⵌ ⵍ ⵎ ⵏ ⵐ ⵑ ⵒ ⵓ ⵔ ⵕ ⵖ ⵗ ⵘ ⵙ ⵚ ⵛ ⵜ ⵝ ⵞ ⵟ ⵠ ⵡ ⵢ ⵣ ⵤ ⵥ ⵦ ⵧ ⵨ ⵩ ⵪ ⵫ ⵬ ⵭ ⵮ ⵯ ⵰ ⵱ ⵲ ⵳ ⵴ ⵵ ⵶ ⵷ ⵸ ⵹ ⵺ ⵻ ⵼ ⵽ ⵾ ⵿ ⶀ ⶁ ⶂ ⶃ ⶄ ⶅ ⶆ ⶇ ⶈ ⶉ ⶊ ⶋ ⶌ ⶍ ⶎ ⶏ ⶐ ⶑ ⶒ ⶓ ⶔ ⶕ ⶖ ⶗ ⶘ ⶙ ⶚ ⶛ ⶜ ⶝ ⶞ ⶟ ⶠ ⶡ ⶢ ⶣ ⶤ ⶥ ⶦ ⶧ ⶨ ⶩ ⶪ ⶫ ⶬ ⶭ ⶮ ⶯ ⶰ ⶱ ⶲ ⶳ ⶴ ⶵ ⶶ ⶷ ⶸ ⶹ ⶺ ⶻ ⶼ ⶽ ⶾ ⶿ ⷀ ⷁ ⷂ ⷃ ⷄ ⷅ ⷆ ⷇ ⷈ ⷉ ⷊ ⷋ ⷌ ⷍ ⷎ ⷏ ⷐ ⷑ ⷒ ⷓ ⷔ ⷕ ⷖ ⷗ ⷘ ⷙ ⷚ ⷛ ⷜ ⷝ ⷞ ⷟ ⷠ ⷡ ⷢ ⷣ ⷤ ⷥ ⷦ ⷧ ⷨ ⷩ ⷪ ⷫ ⷬ ⷭ ⷮ ⷯ ⷰ ⷱ ⷲ ⷳ ⷴ ⷵ ⷶ ⷷ ⷸ					

[illegible]

[illegible]

[illegible]

[illegible]

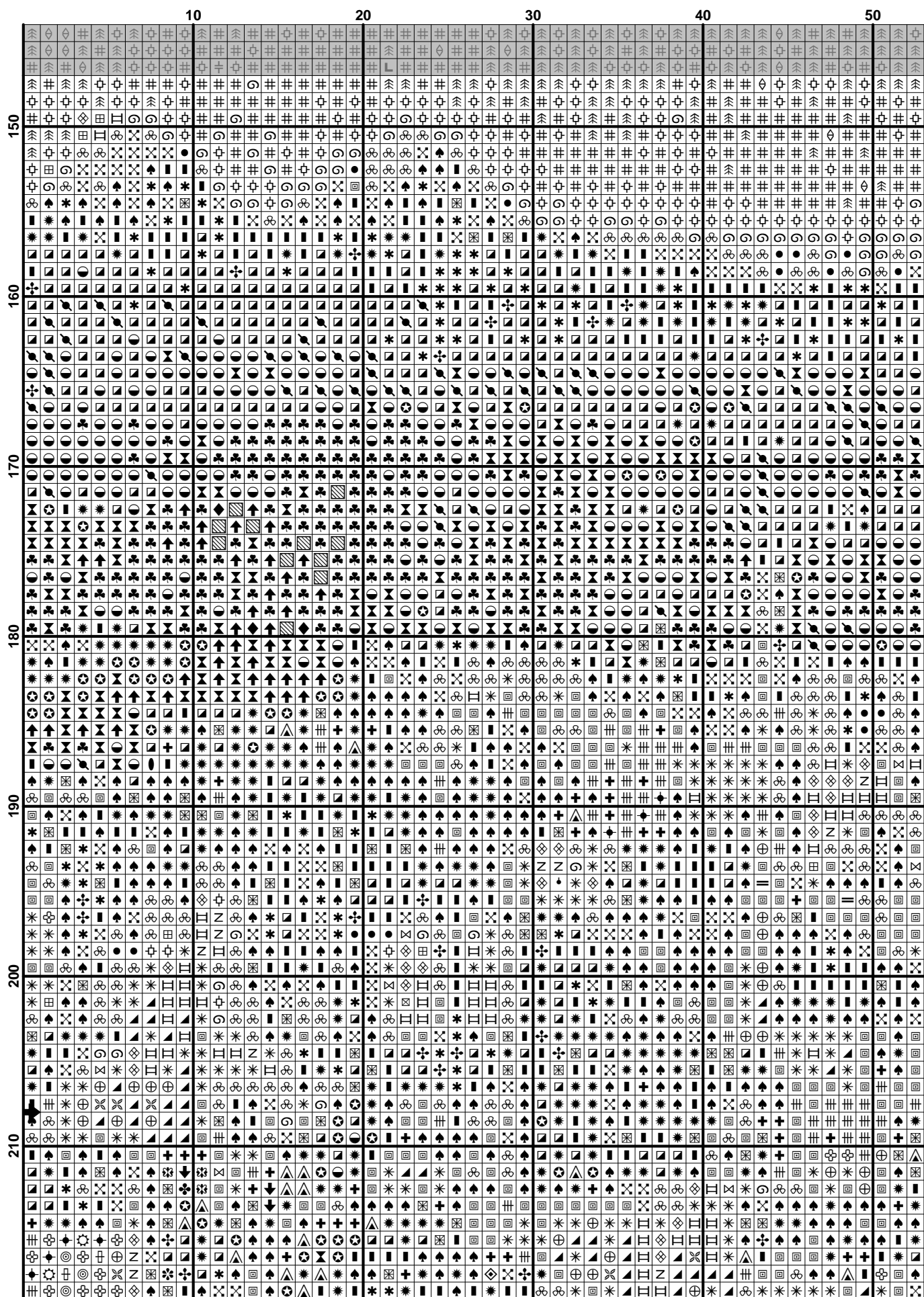
	550	560	570	580	590	600
80	550	560	570	580	590	600
90	550	560	570	580	590	600
100	550	560	570	580	590	600
110	550	560	570	580	590	600
120	550	560	570	580	590	600
130	550	560	570	580	590	600
140	550	560	570	580	590	600

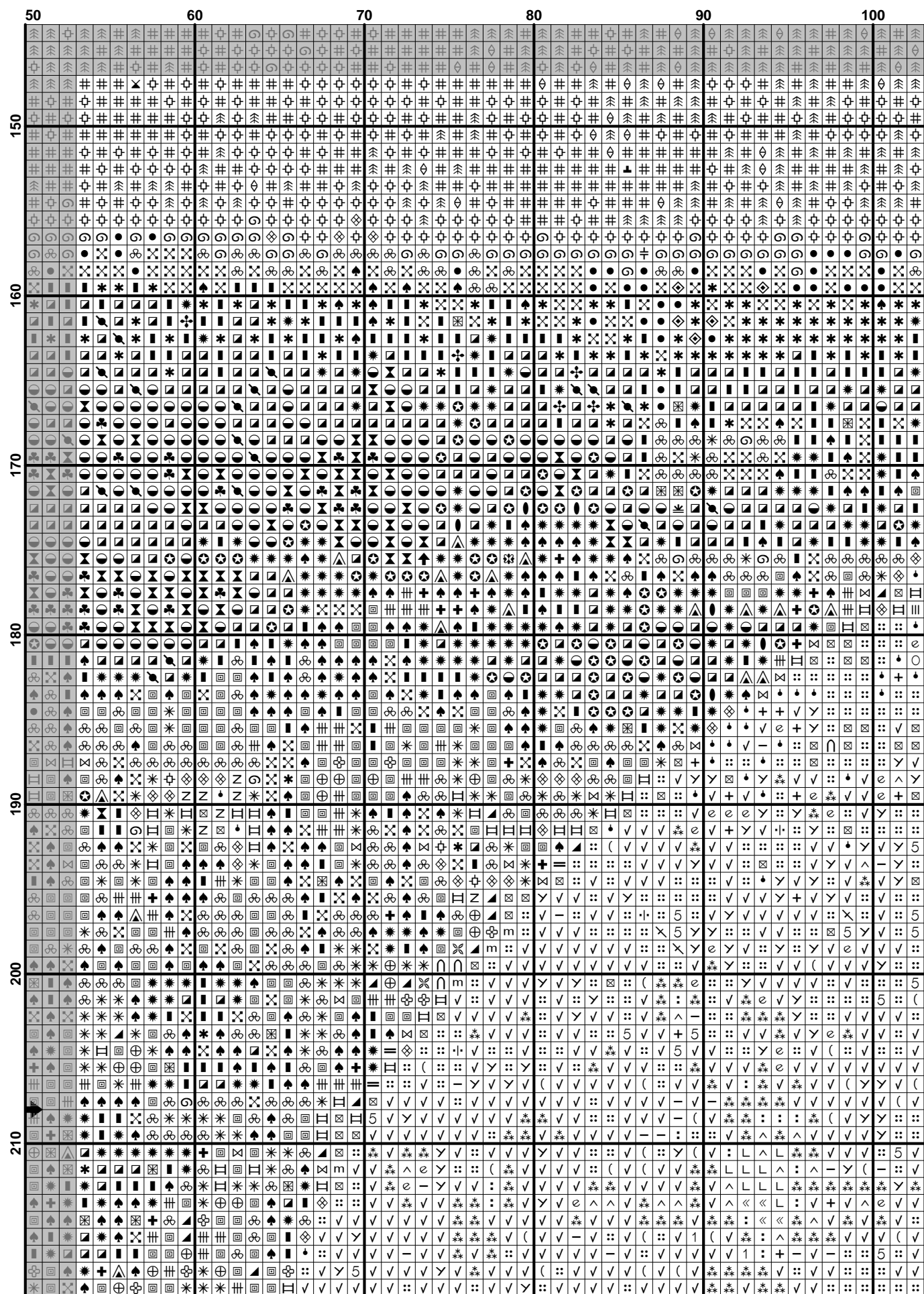
(46)

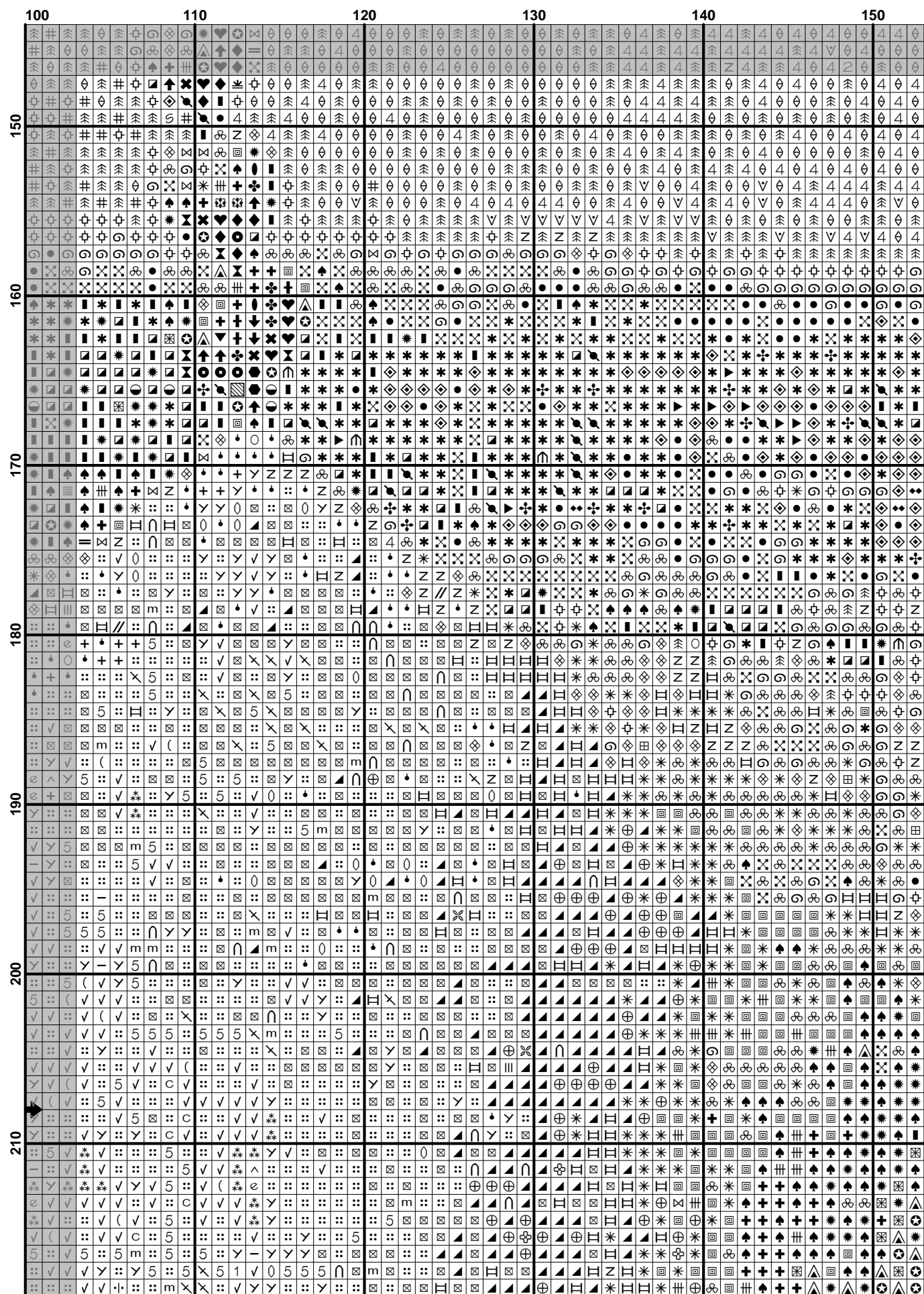
	650	660	670	680	690	700
	80	80	80	80	80	80
	90	90	90	90	90	90
	100	100	100	100	100	100
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	120	120	120	120	120	120
	130	130	130	130	130	130
	140	140	140	140	140	140
	150	150	150	150	150	150
	160	160	160	160	160	160
	170	170	170	170	170	170
	180	180	180	180	180	180
	190	190	190	190	190	190
	200	200	200	200	200	200
	210	210	210	210	210	210
	220	220	220	220	220	220
	230	230	230	230	230	230
	240	240	240	240	240	240
	250	250	250	250	250	250
	260	260	260	260	260	260
	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
	330	330	330	330	330	330
	340	340	340	340	340	340
	350	350	350	350	350	350
	360	360	360	360	360	360
	370	370	370	370	370	370
	380	380	380	380	380	380
	390	390	390	390	390	390
	400	400	400	400	400	400
	410	410	410	410	410	410
	420	420	420	420	420	420
	430	430	430	430	430	430
	440	440	440	440	440	440
	450	450	450	450	450	450
	460	460	460	460	460	460
	470	470	470	470	470	470
	480	480	480	480	480	480
	490	490	490	490	490	490
	500	500	500	500	500	500
	510	510	510	510	510	510
	520	520	520	520	520	520
	530	530	530	530	530	530
	540	540	540	540	540	540
	550	550	550	550	550	550
	560	560	560	560	560	560
	570	570	570	570	570	570
	580	580	580	580	580	580
	590	590	590	590	590	590
	600	600	600	600	600	600
	610	610	610	610	610	610
	620	620	620	620	620	620
	630	630	630	630	630	630
	640	640	640	640	640	640
	650	650	650	650	650	650
	660	660	660	660	660	660
	670	670	670	670	670	670
	680	680	680	680	680	680
	690	690	690	690	690	690
	700	700	700	700	700	700

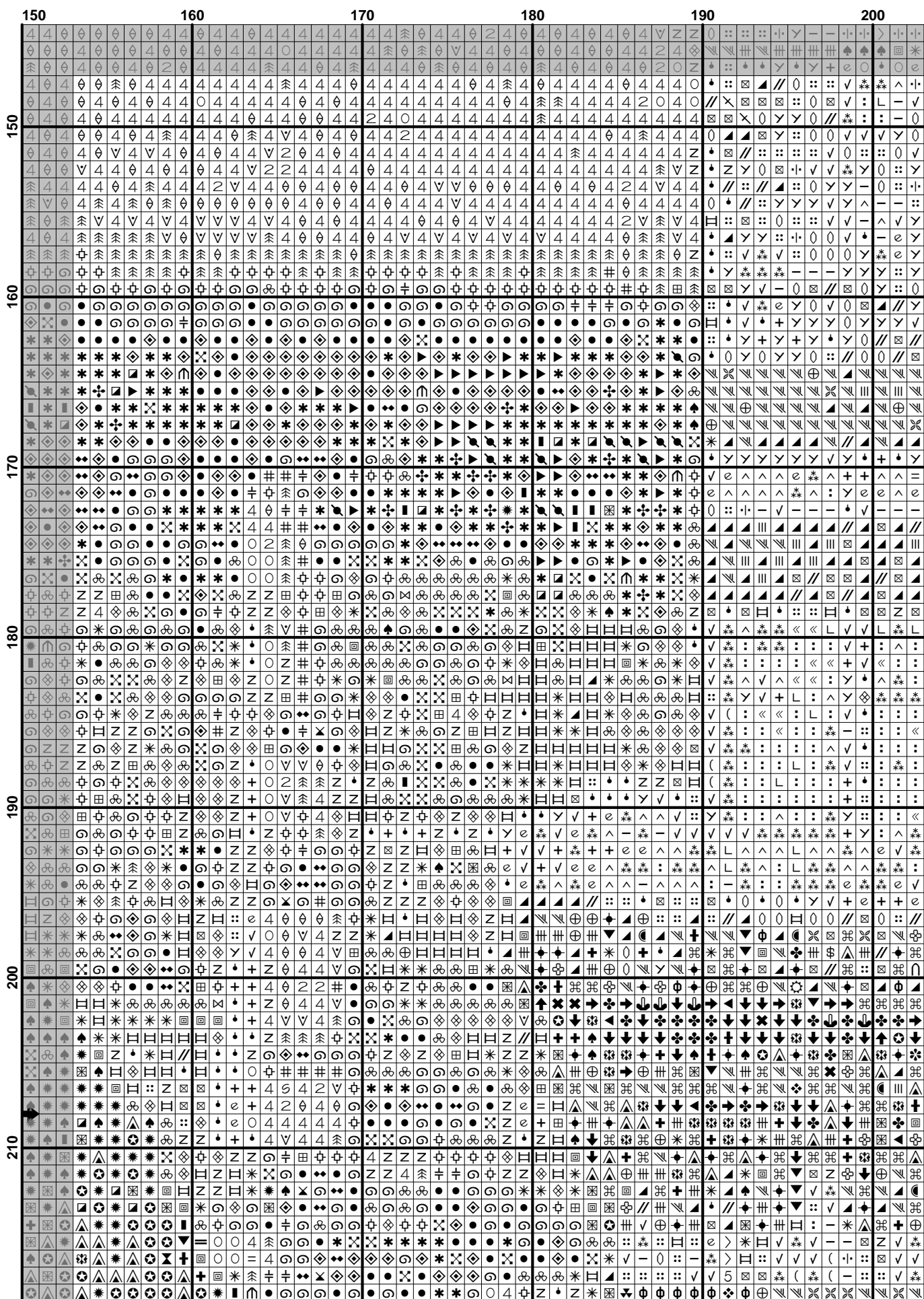
$$(47) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

(48)









$$(53) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

[illegible]

$$(55) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

$$(56) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

$$(57) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

$$(58) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

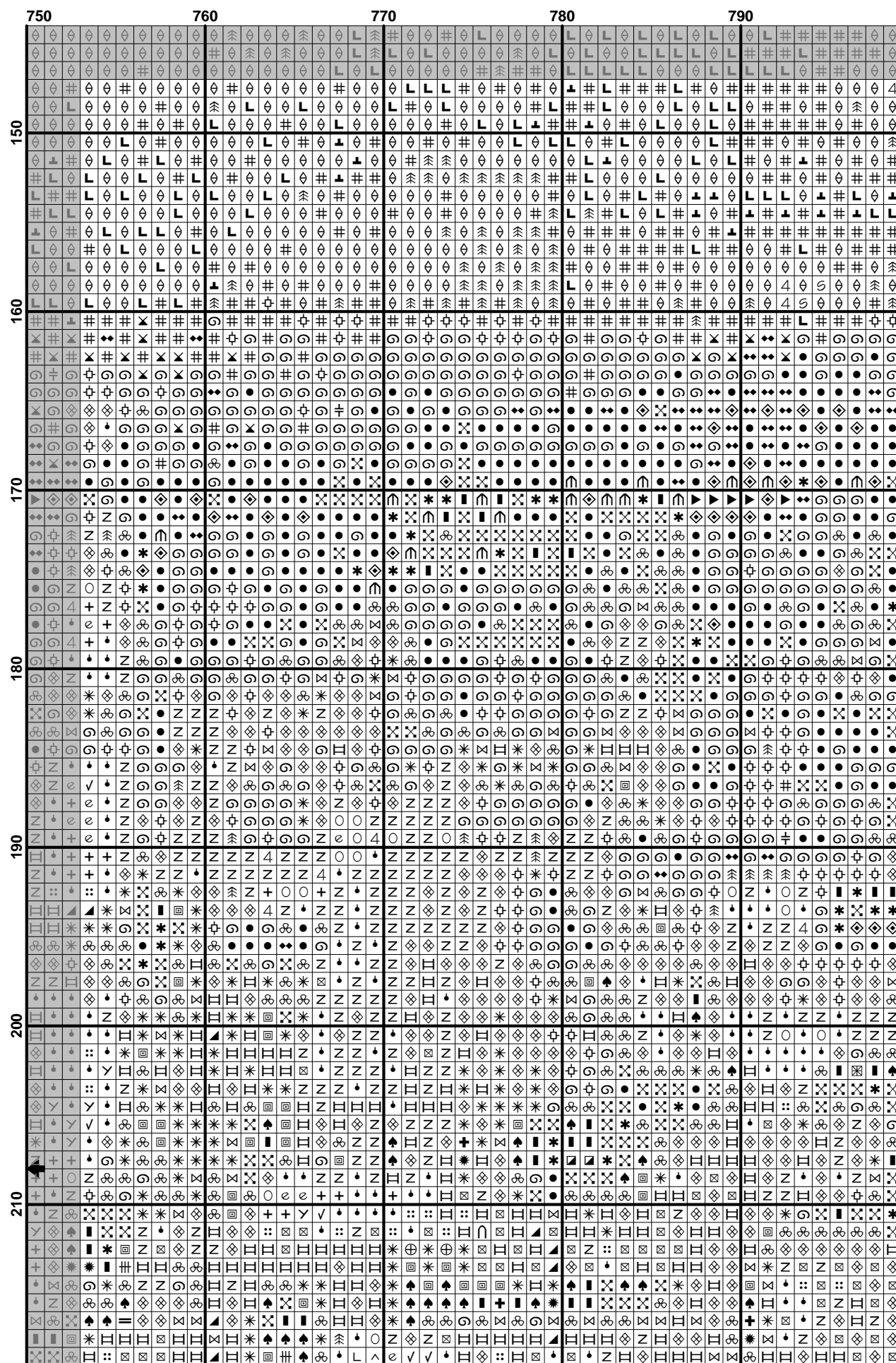
[illegible]

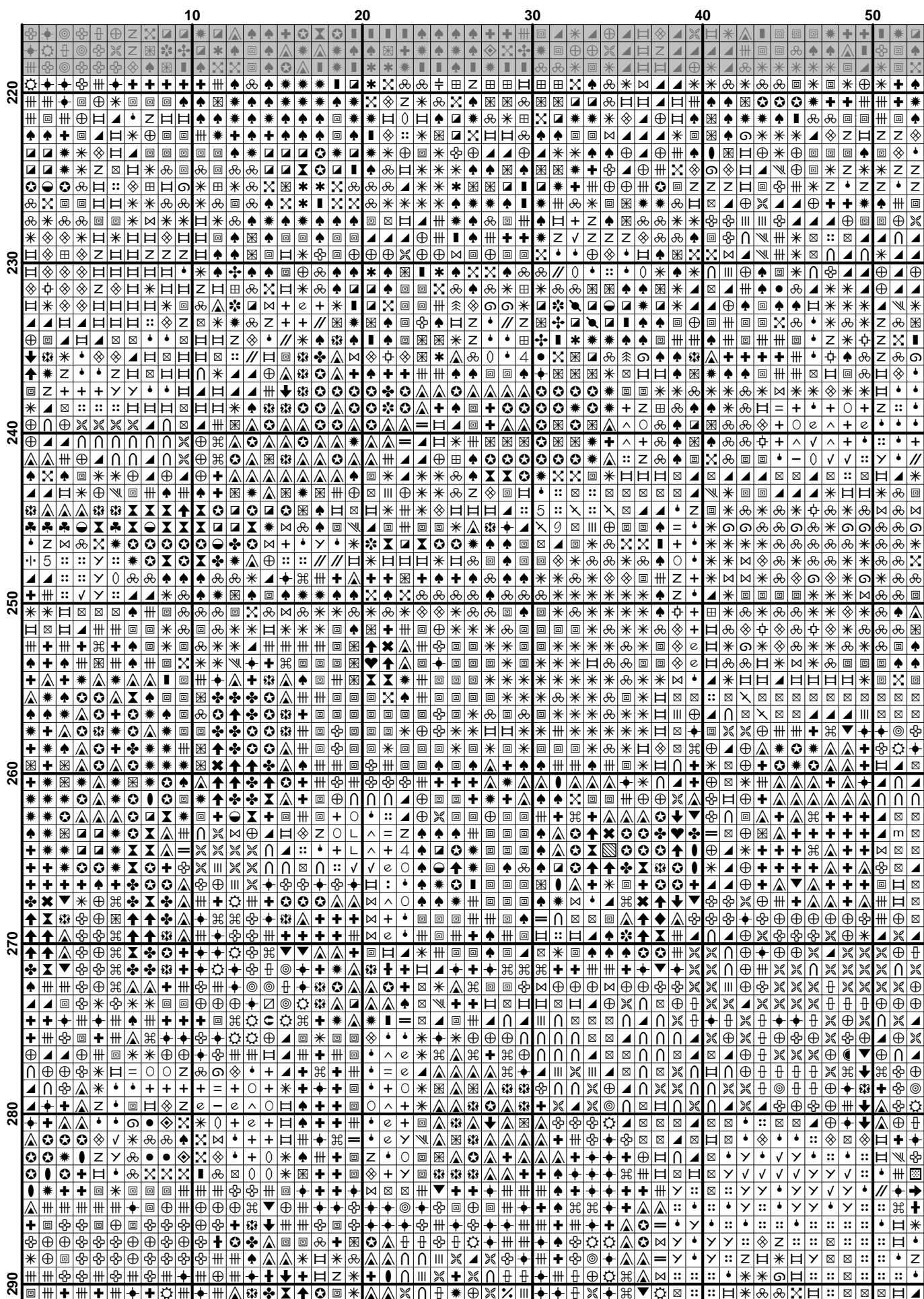
[illegible]

[illegible]

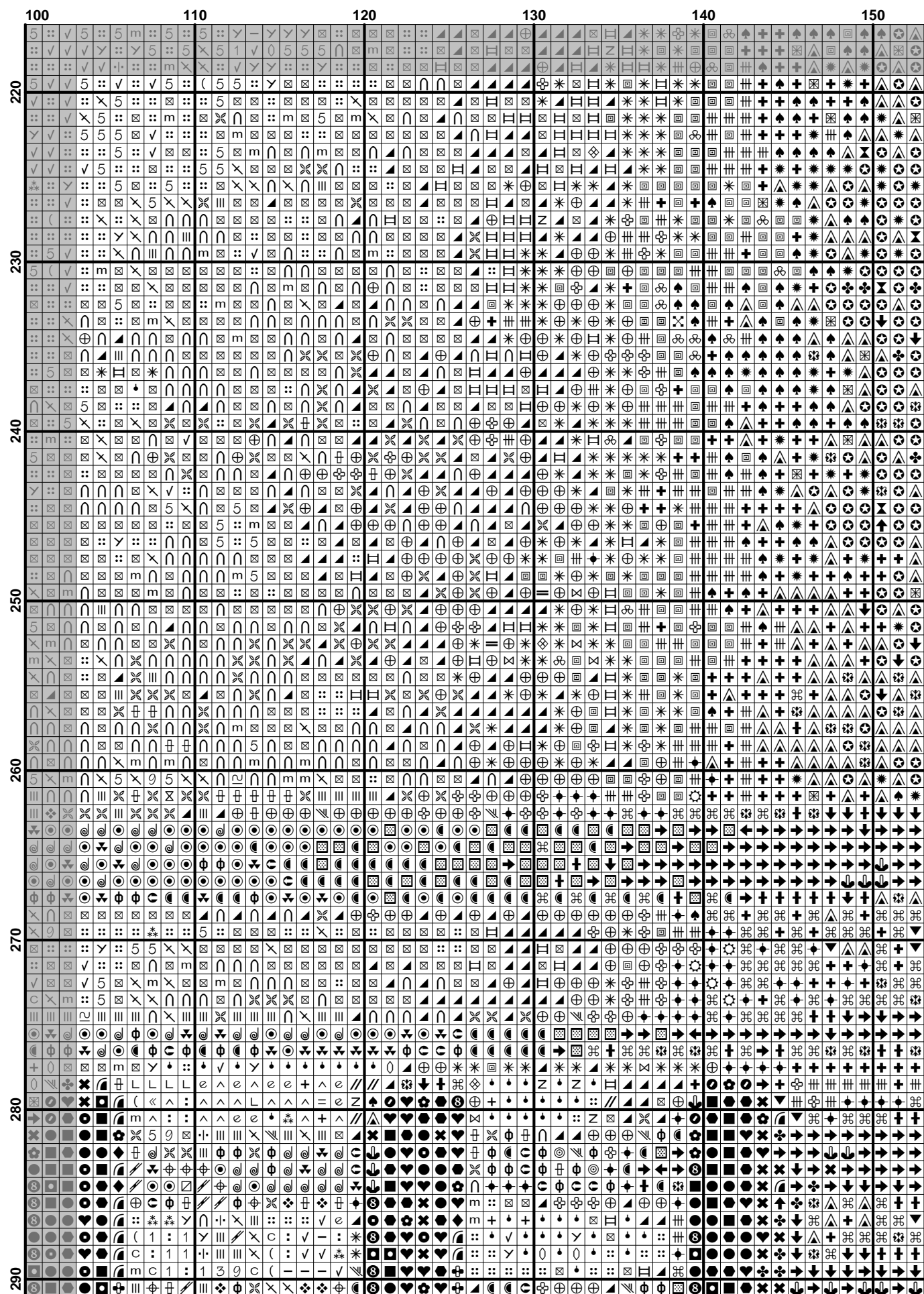
	650	660	670	680	690	700
150						
160						
170						
180						
190						
200						
210						

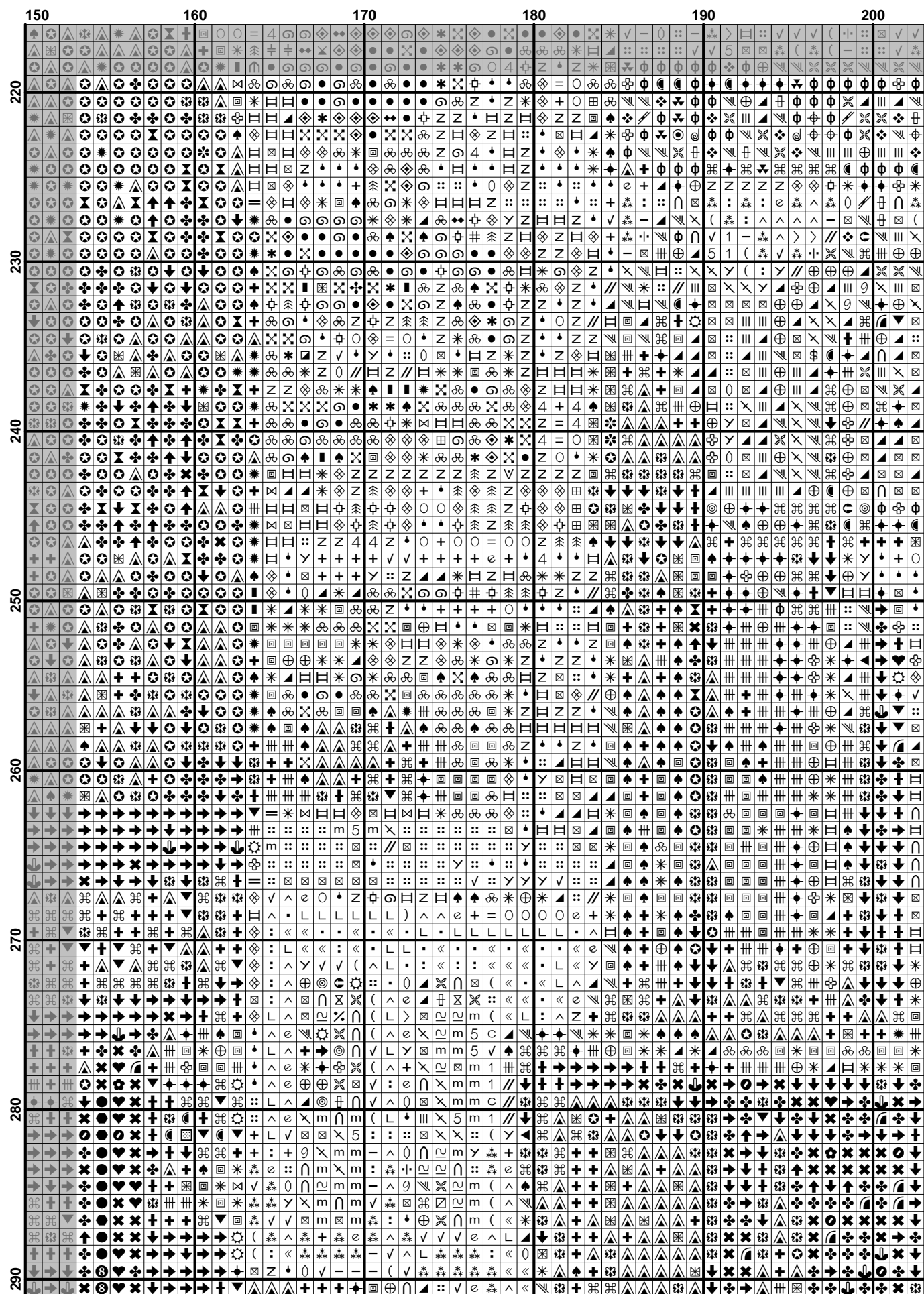
$$(63) \quad \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} \frac{e^{-t^2}}{(1+t^2)^2} dt = \frac{1}{2} \left(\frac{\pi}{2} + \frac{\pi}{2} \right) = \frac{\pi}{2}$$

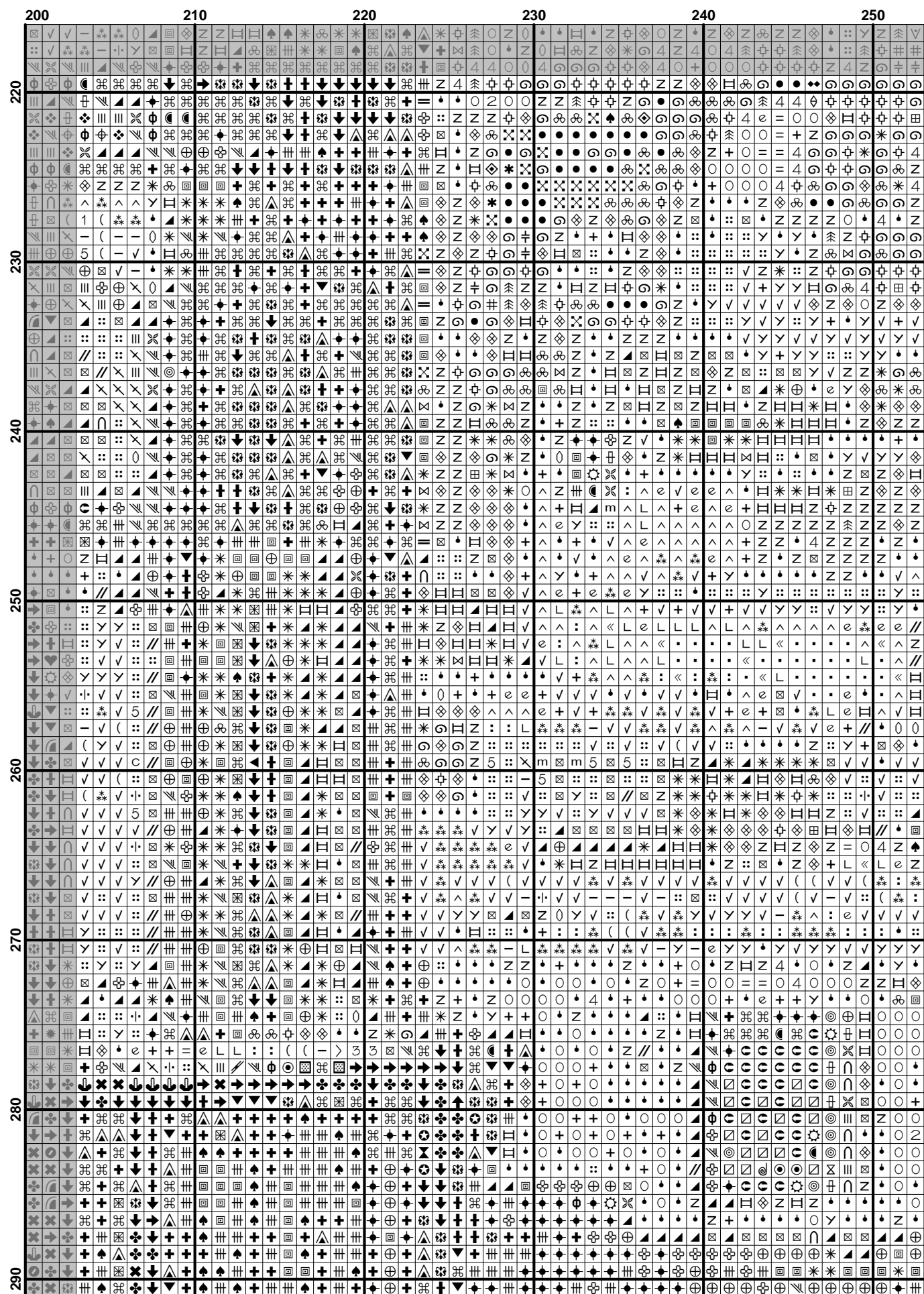




	50	60	70	80	90	100
220
230
240
250
260
270
280
290







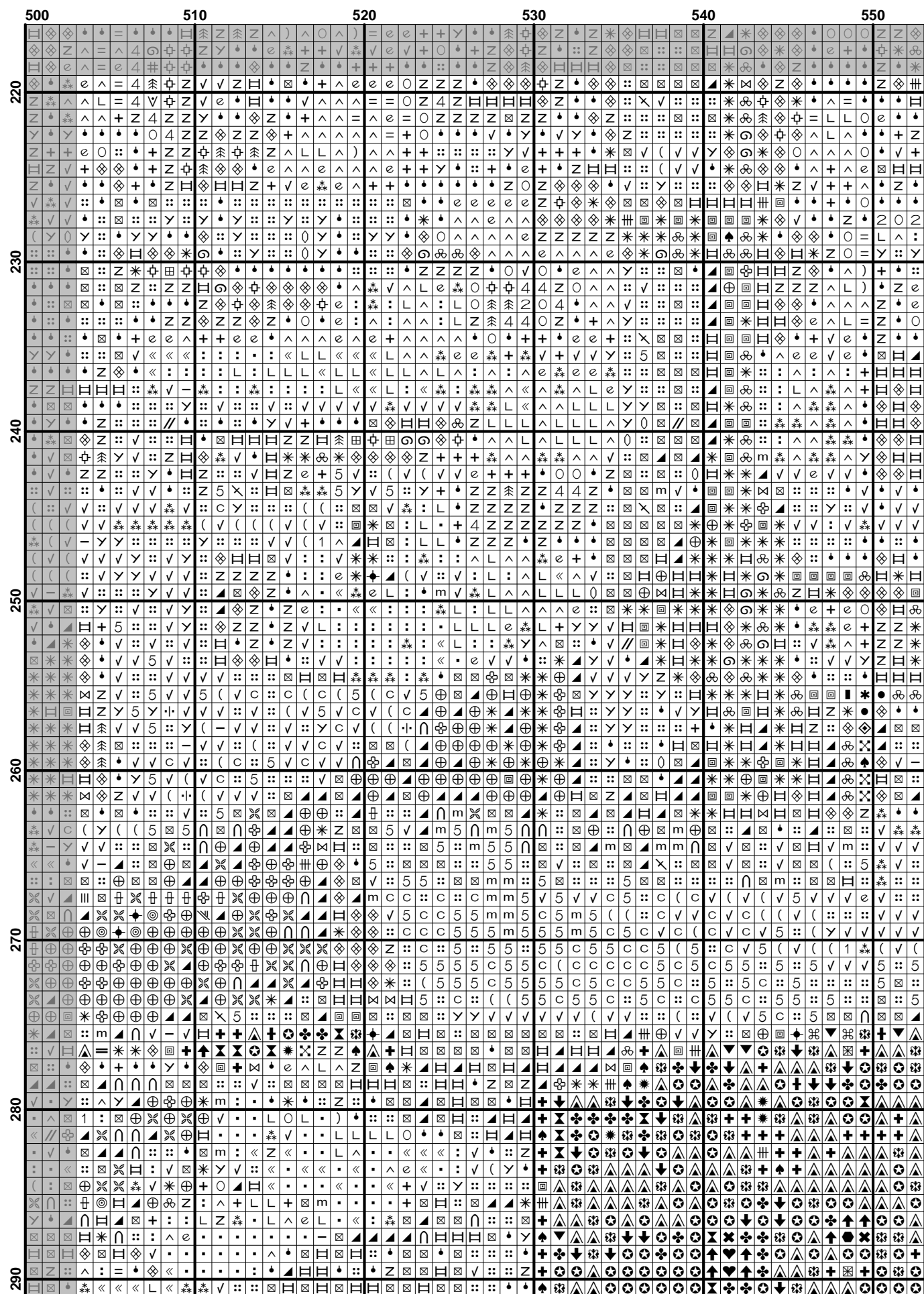
	250	260	270	280	290	300
220
230
240
250
260
270
280
290

[illegible]

$$(72) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

[illegible]

$$(74) \quad \text{[...]} \quad (75)$$



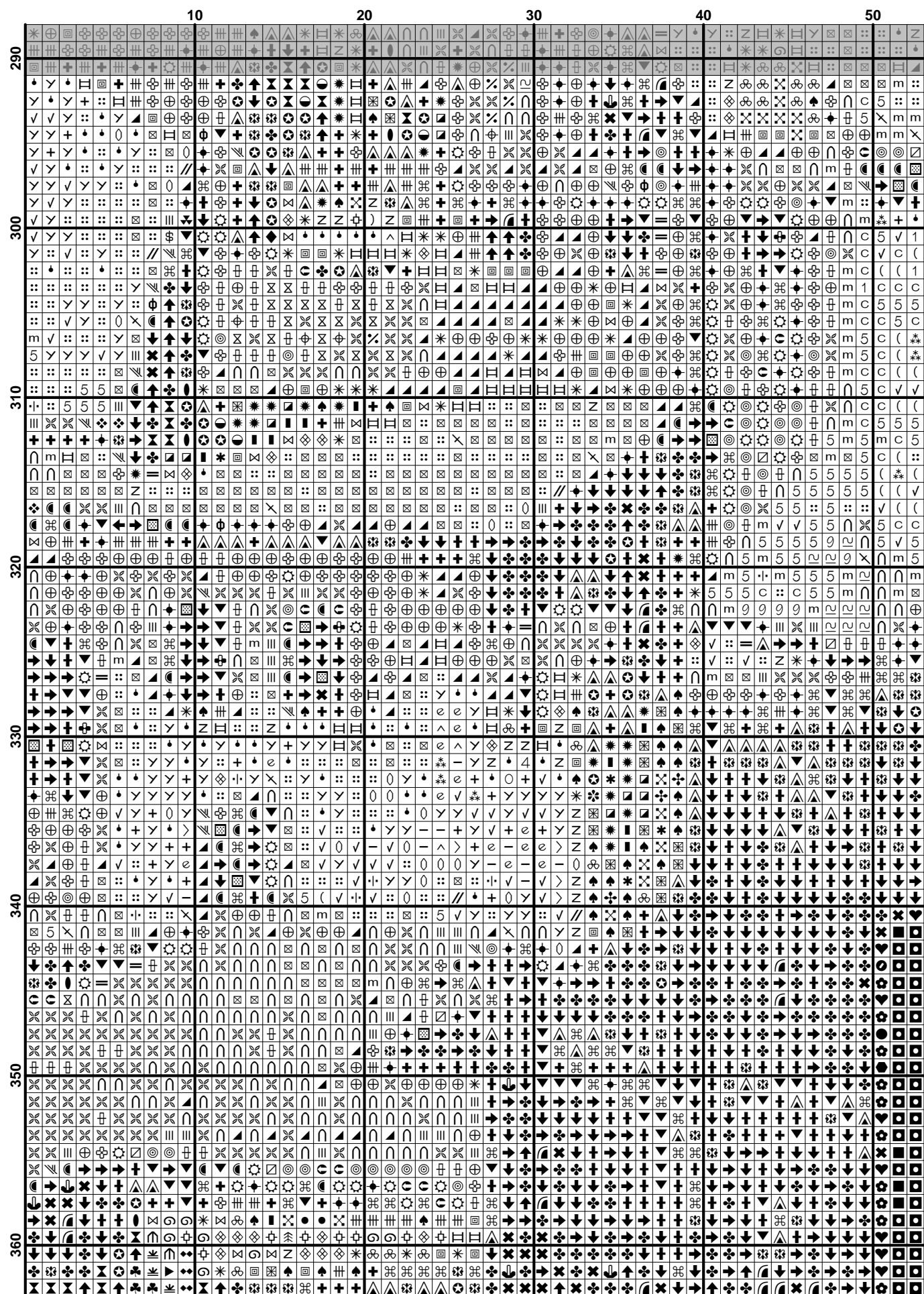
[illegible]

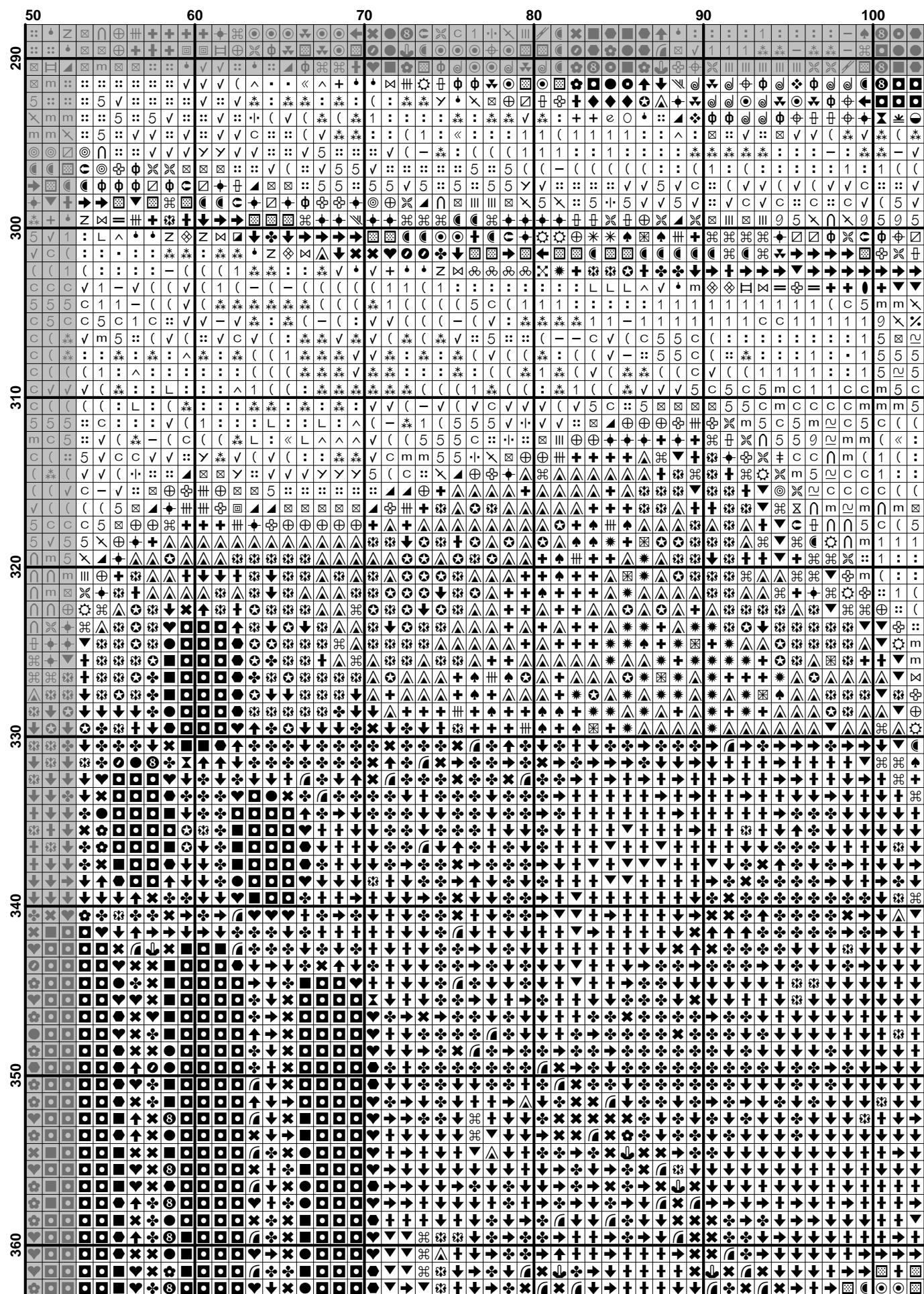
[illegible]

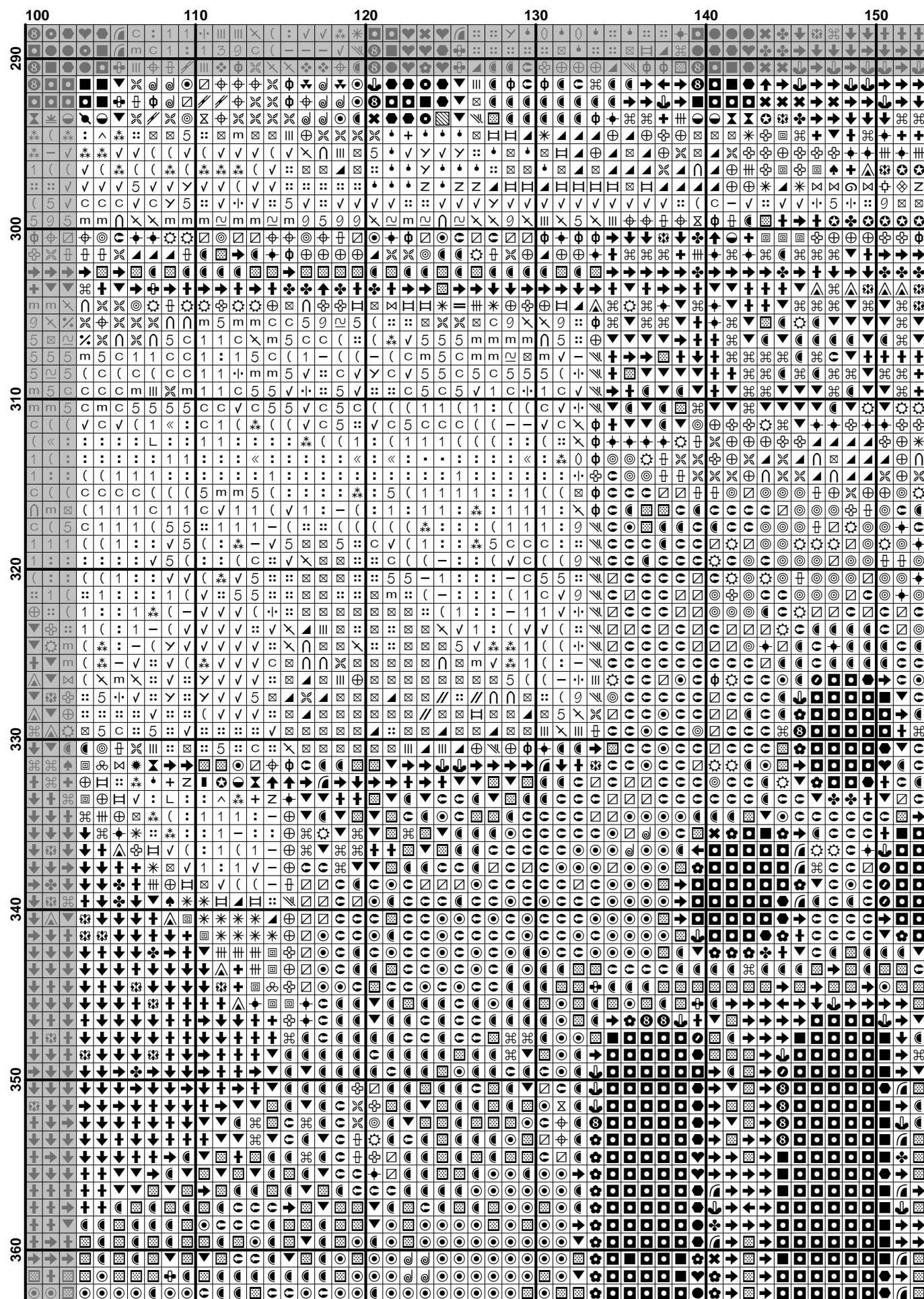
$$(78) \quad \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} e^{-t^2} dt = 1$$

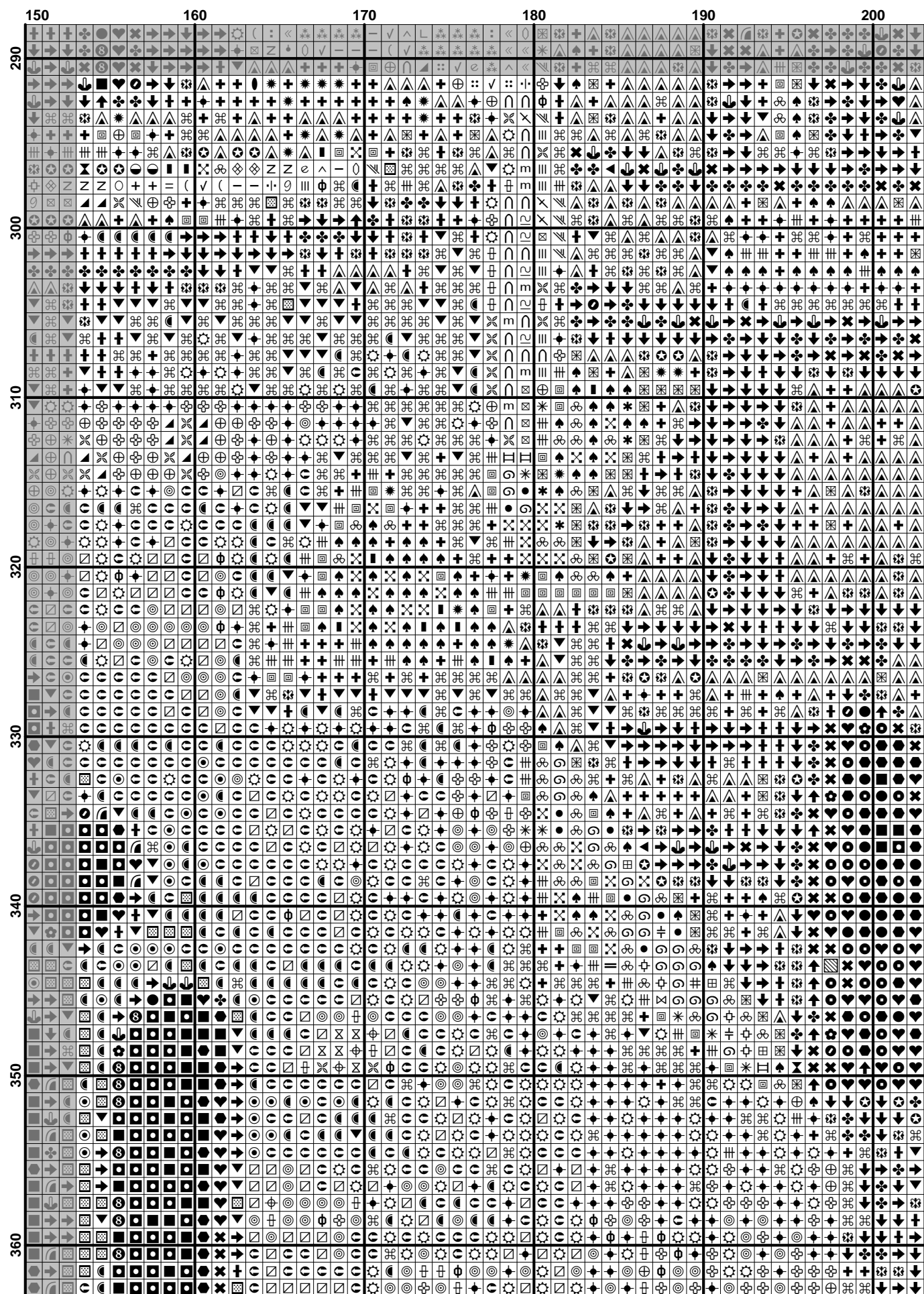
	700	710	720	730	740	750
220	∇	∇	∇	∇	∇	∇
230	∇	∇	∇	∇	∇	∇
240	∇	∇	∇	∇	∇	∇
250	∇	∇	∇	∇	∇	∇
260	∇	∇	∇	∇	∇	∇
270	∇	∇	∇	∇	∇	∇
280	∇	∇	∇	∇	∇	∇
290	∇	∇	∇	∇	∇	∇

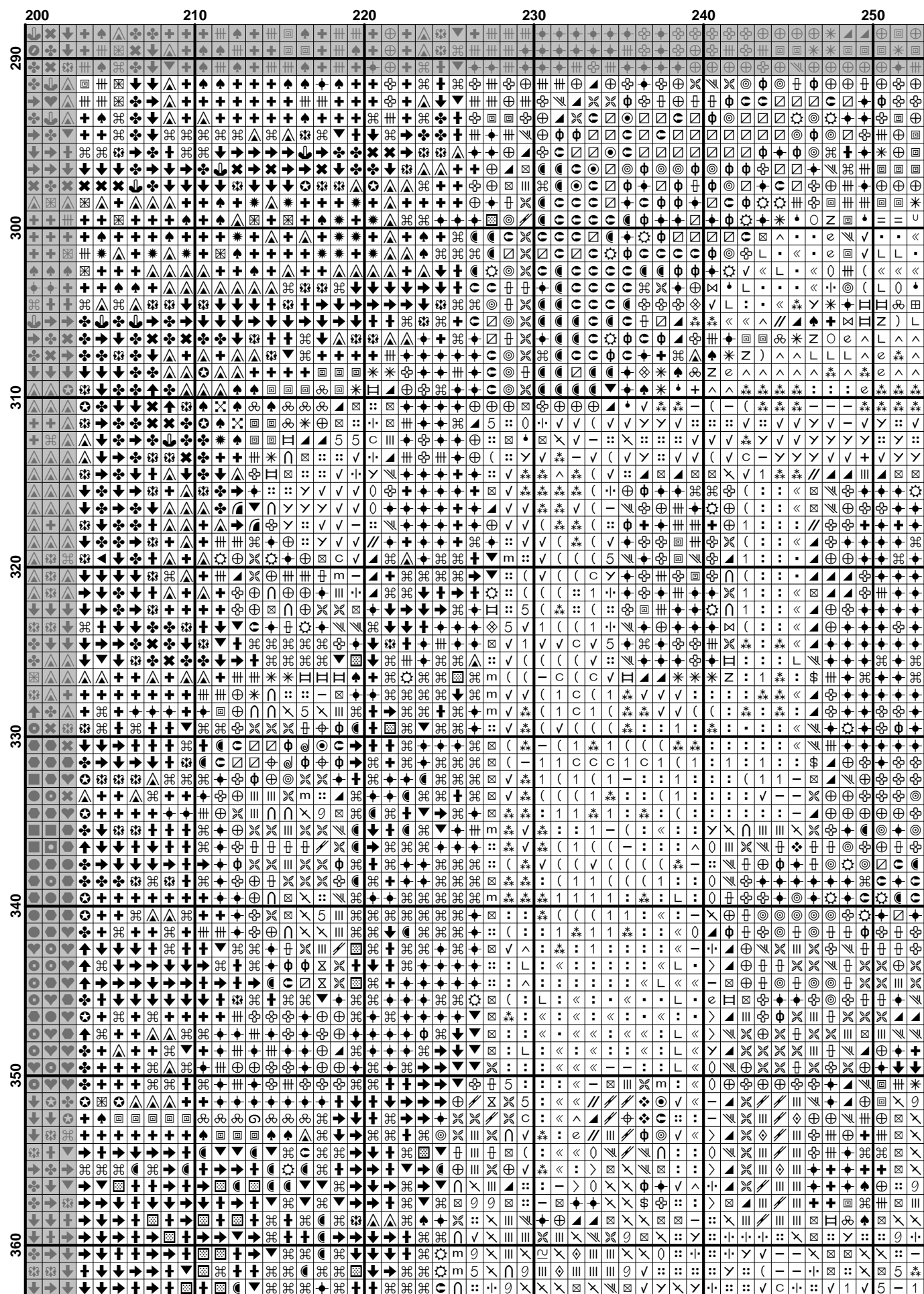
	760	770	780	790
220				
230				
240				
250				
260				
270				
280				
290				









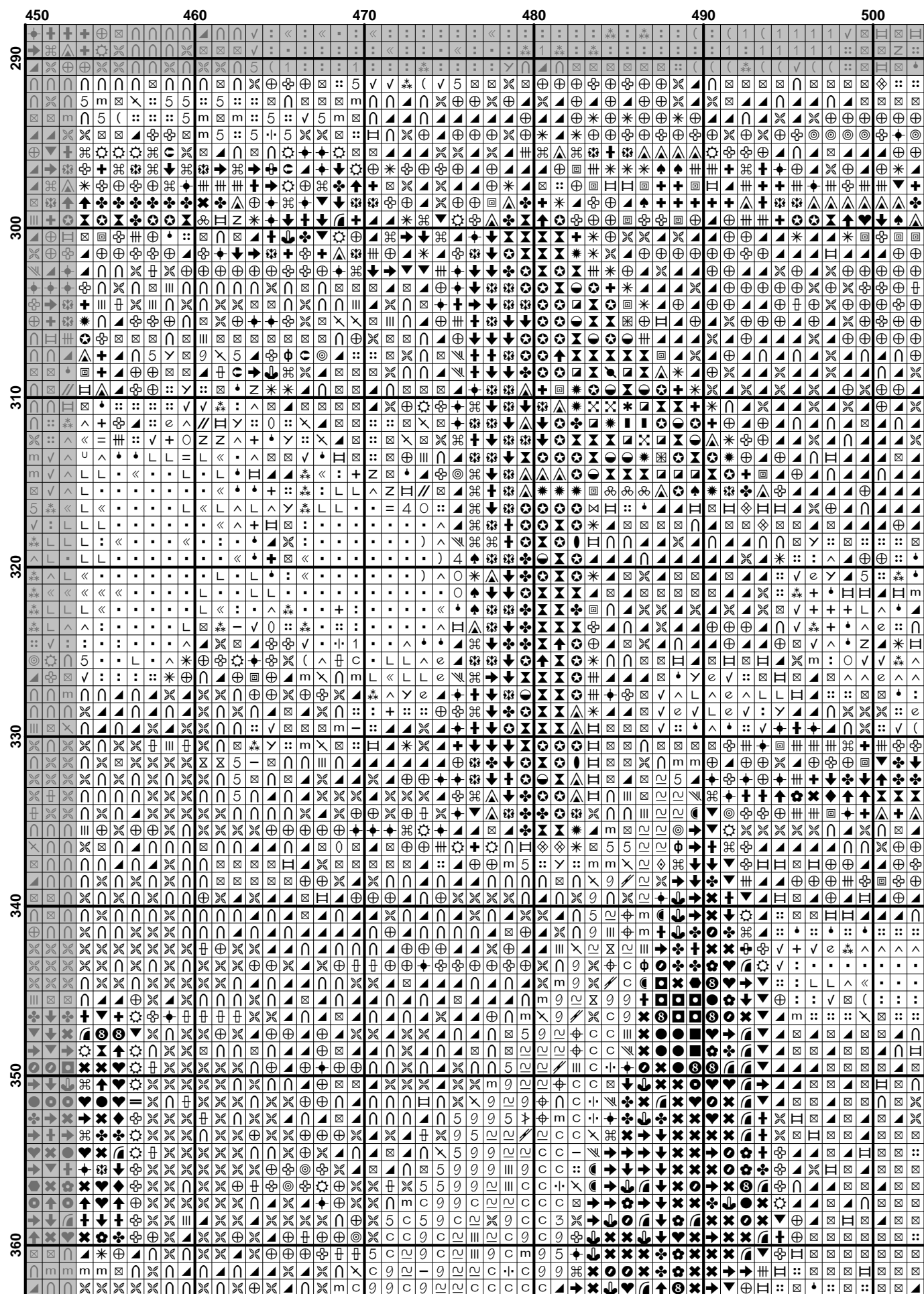


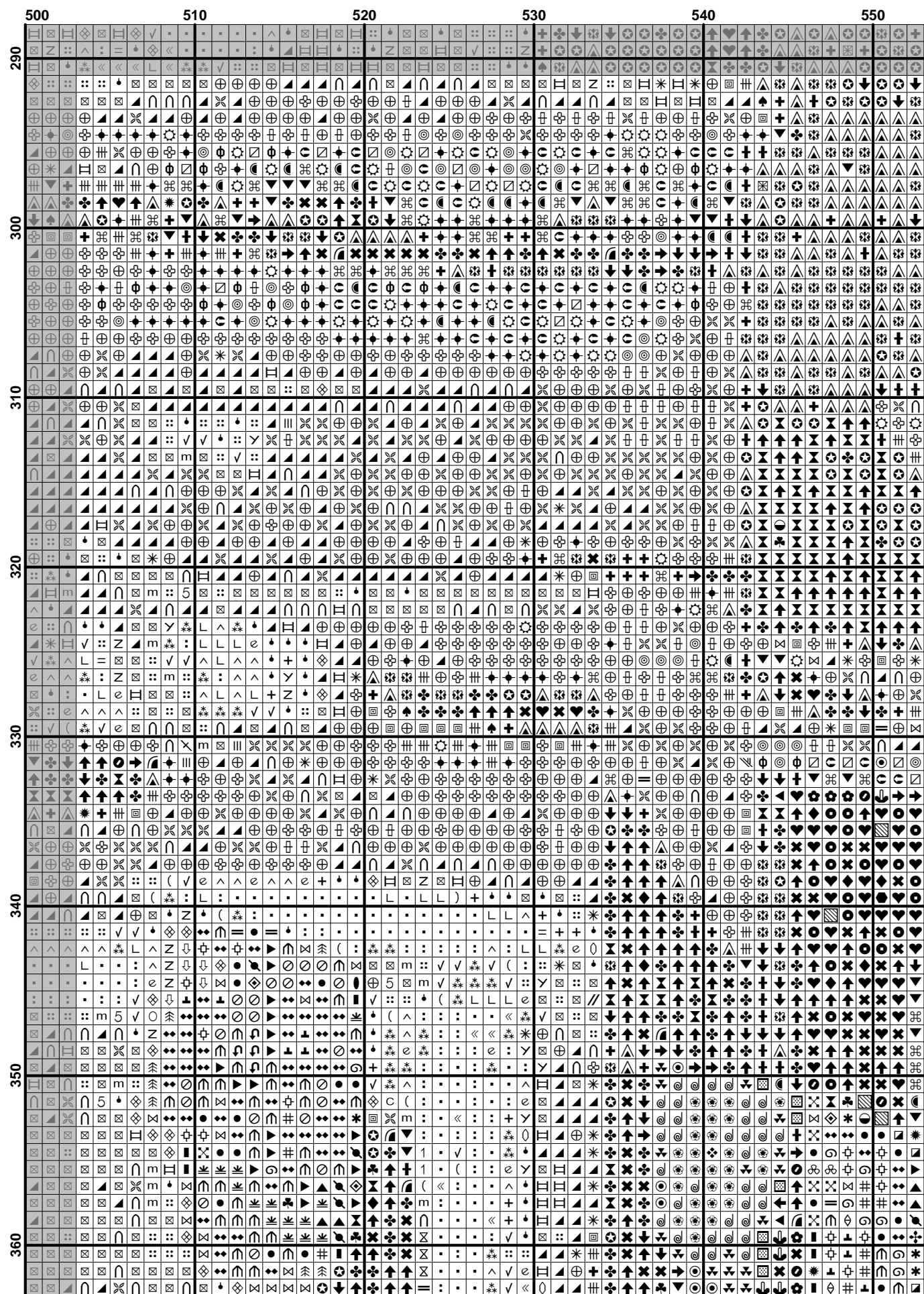
$$(86) \quad \text{---} \quad (87)$$

$$(87) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (88)$$

$$(88) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

	400	410	420	430	440	450
290	⬆	⬆	⬆	⬆	⬆	⬆
300	⬆	⬆	⬆	⬆	⬆	⬆
310	⬆	⬆	⬆	⬆	⬆	⬆
320	⬆	⬆	⬆	⬆	⬆	⬆
330	⬆	⬆	⬆	⬆	⬆	⬆
340	⬆	⬆	⬆	⬆	⬆	⬆
350	⬆	⬆	⬆	⬆	⬆	⬆
360	⬆	⬆	⬆	⬆	⬆	⬆

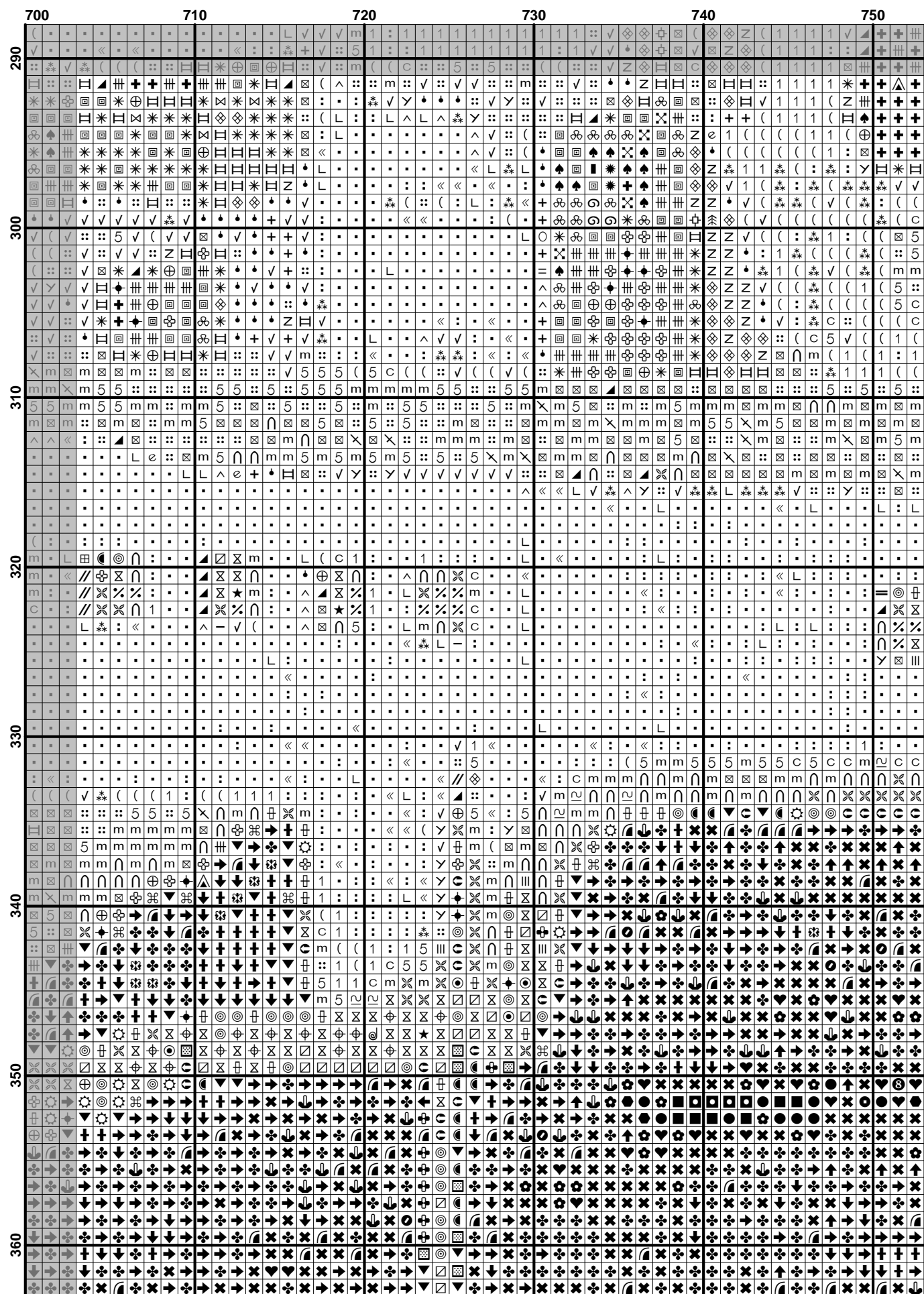


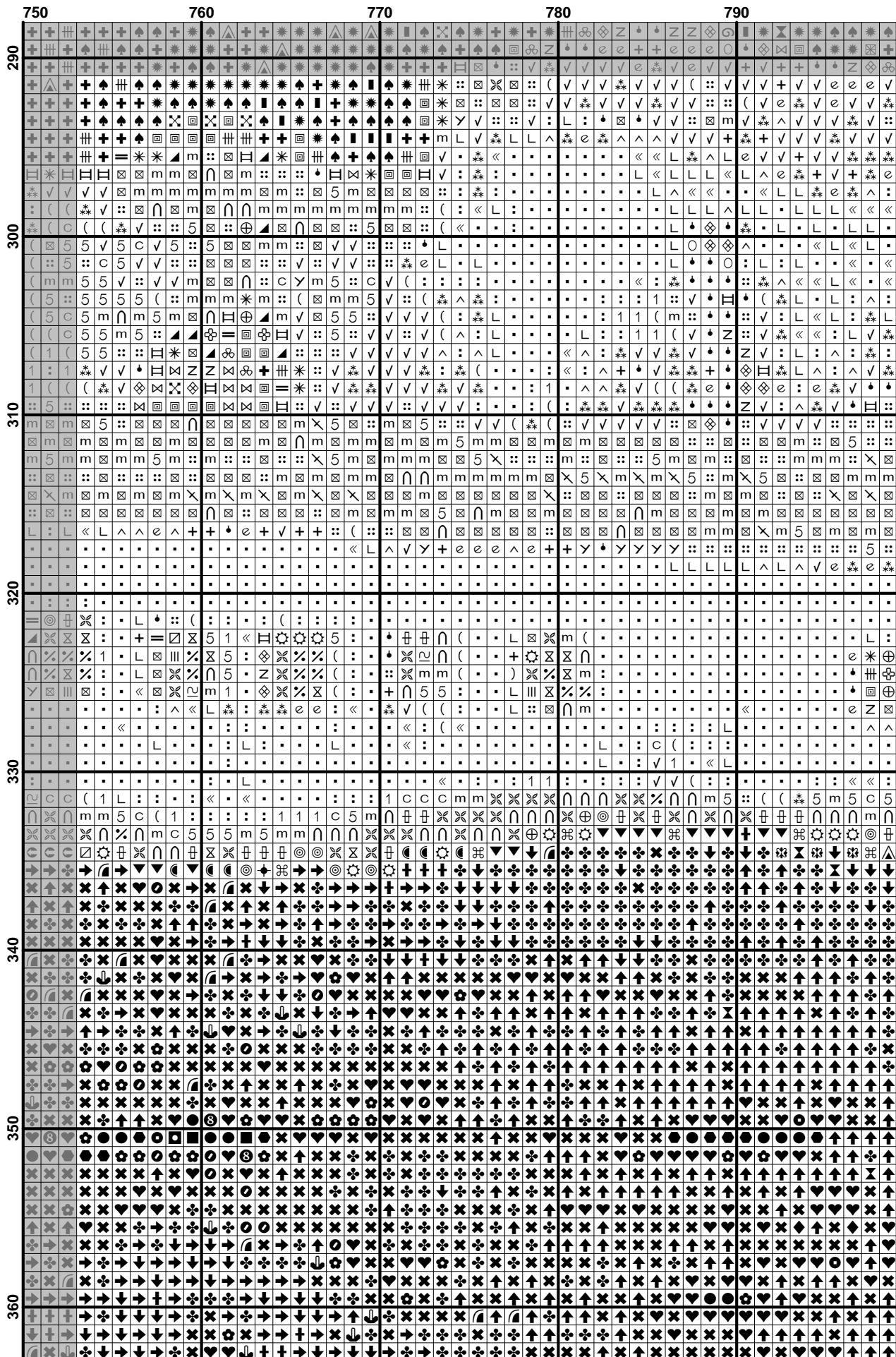


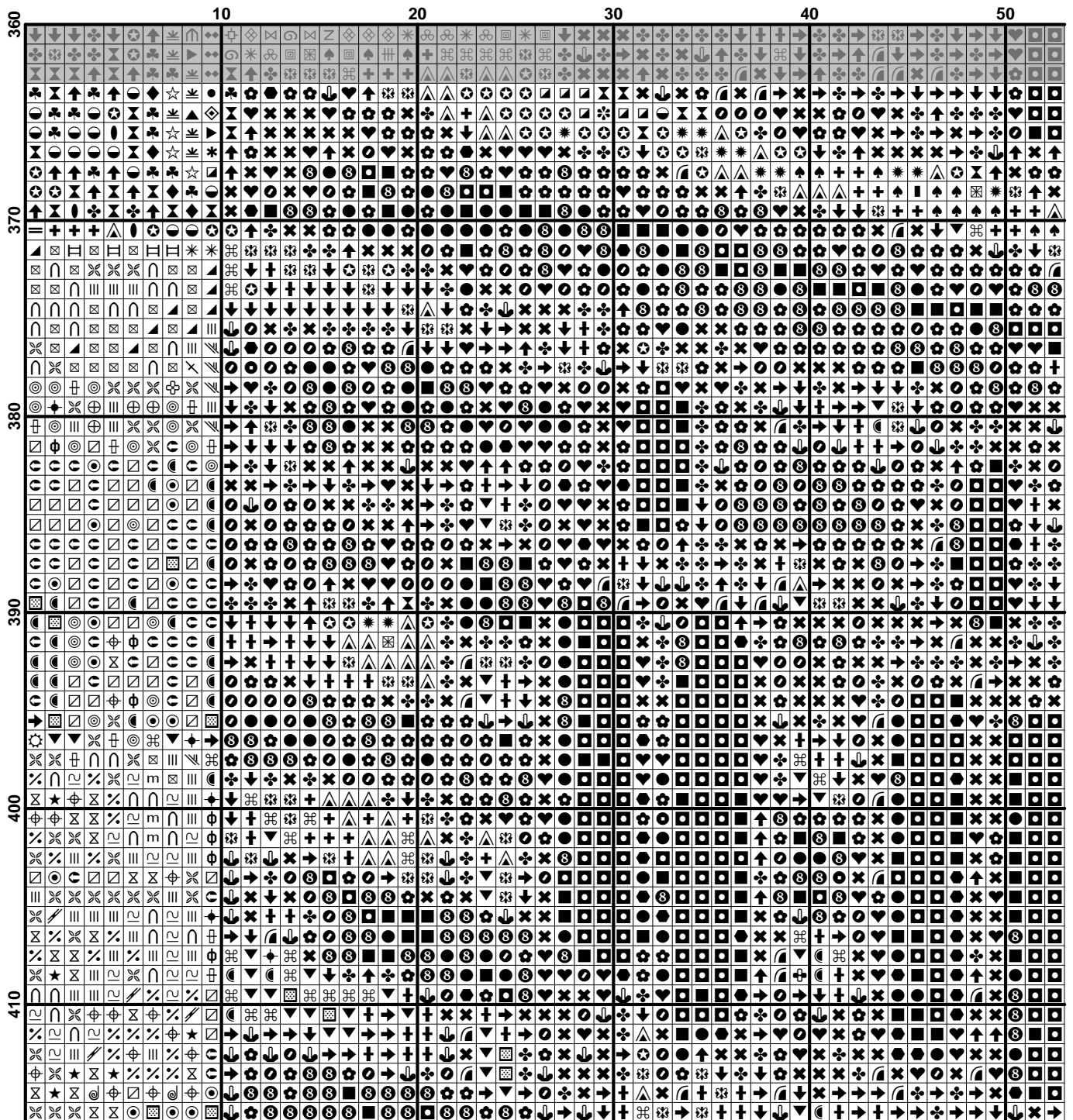
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300						
310						
320						
330						
340						
350						
360						

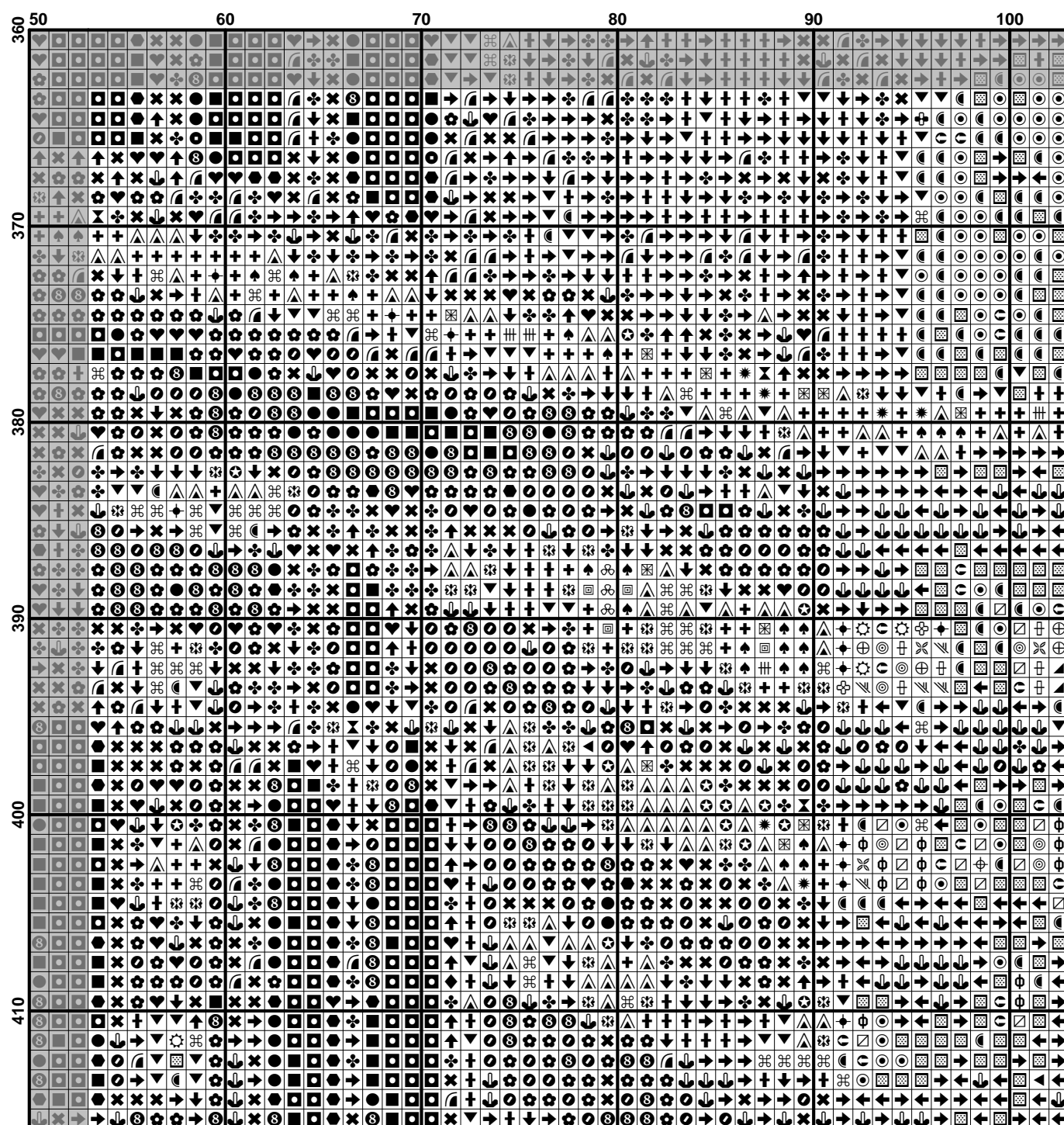
	600	610	620	630	640	650
290	+	+	+	+	+	+
300	+	+	+	+	+	+
310	+	+	+	+	+	+
320	+	+	+	+	+	+
330	+	+	+	+	+	+
340	+	+	+	+	+	+
350	+	+	+	+	+	+
360	+	+	+	+	+	+

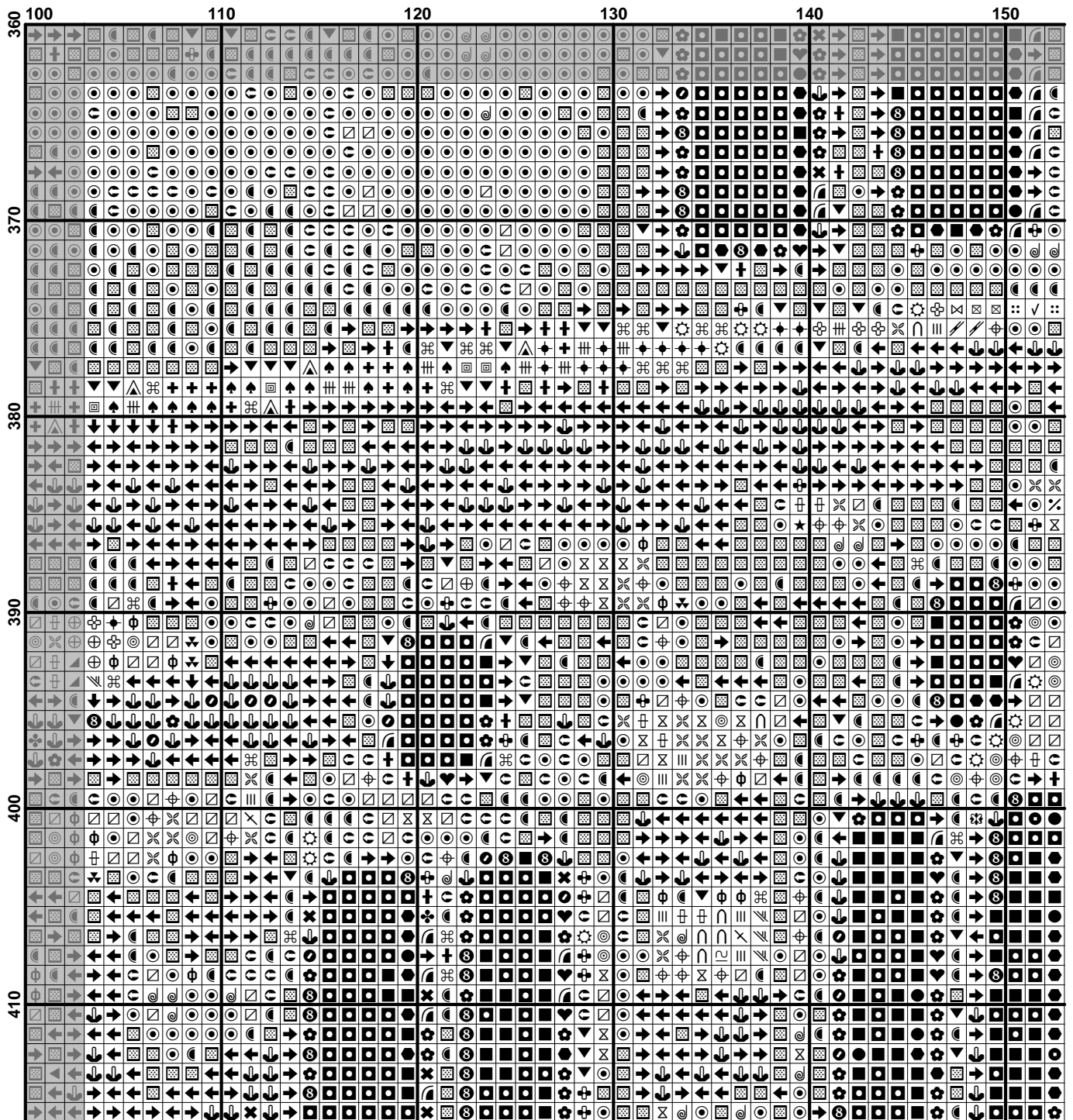
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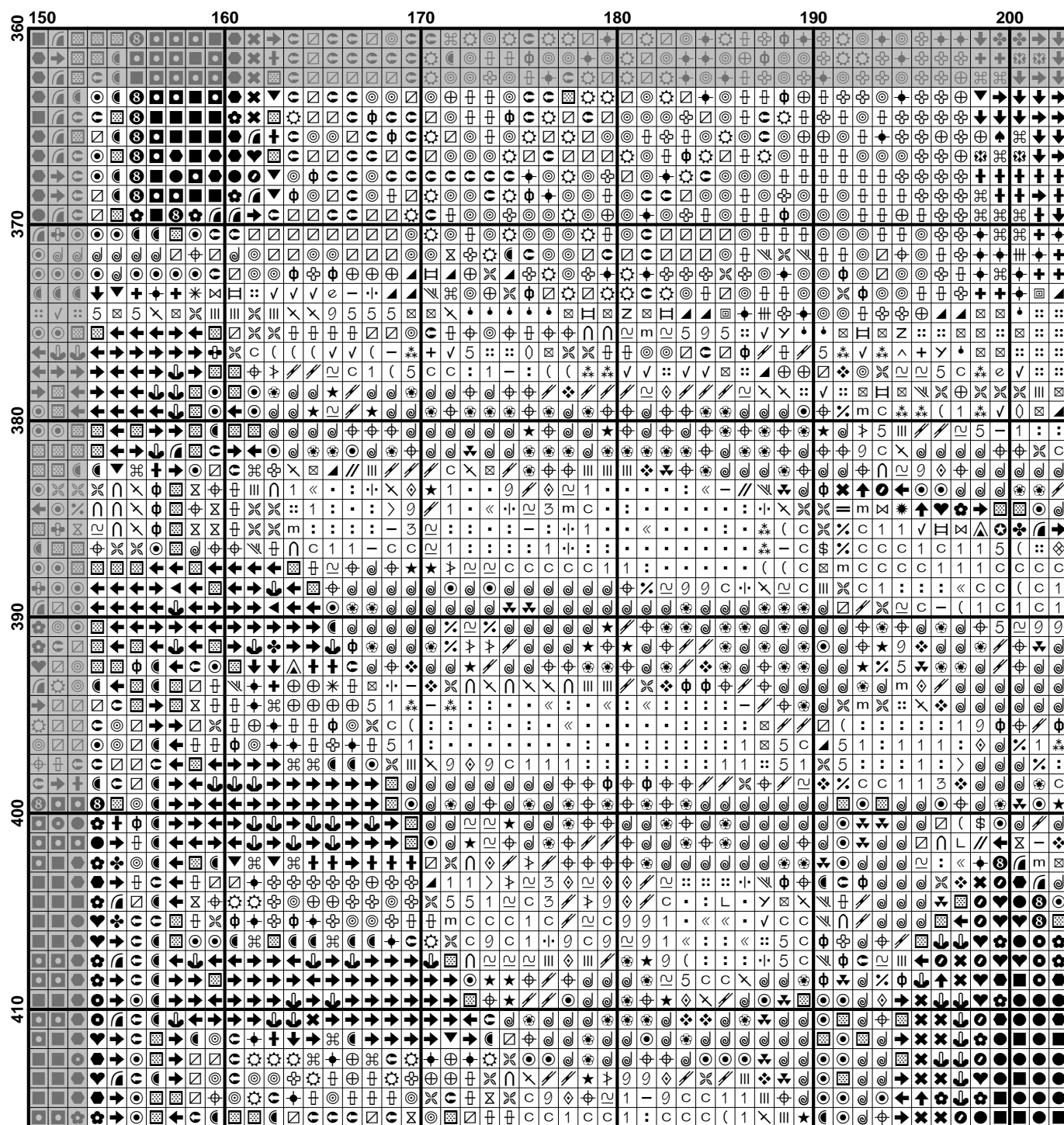








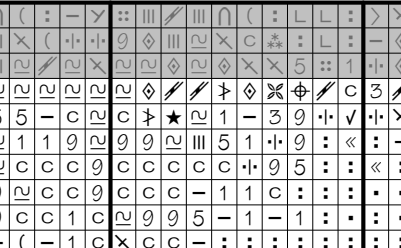
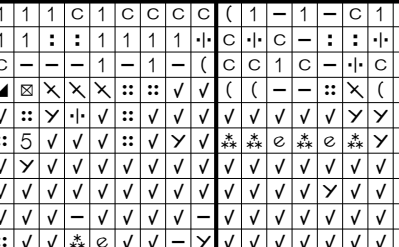
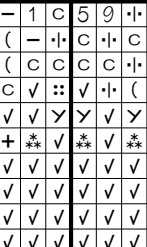
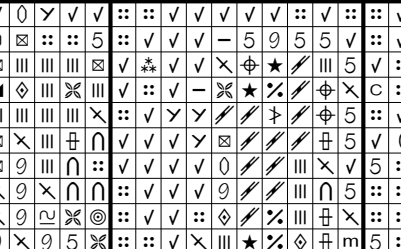
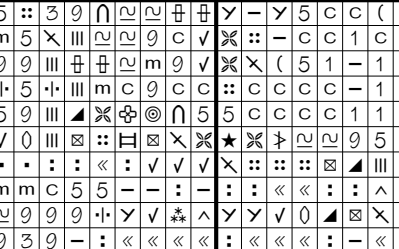
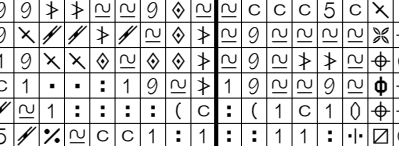




	200	210	220	230	240	250
360						
370						
380						
390						
400						
410						

[illegible]

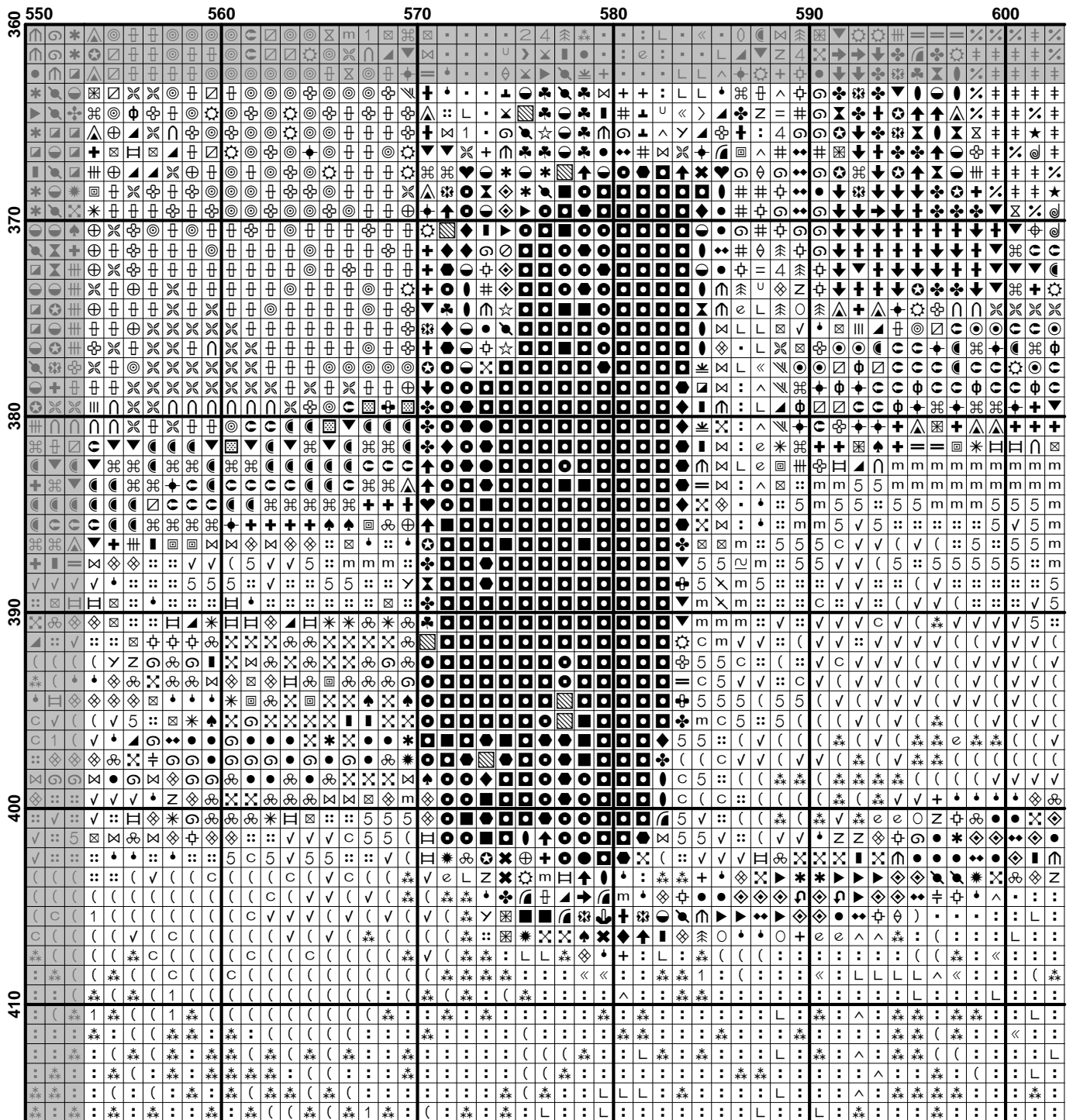
[illegible]

	350	360	370	380	390	400
360						
370						
380						
390						
400						
410						

[illegible]

	360	460	470	480	490	500
360						
370						
380						
390						
400						
410						

	500	510	520	530	540	550
360	⬆	⬆	⬆	⬆	⬆	⬆
370	⬆	⬆	⬆	⬆	⬆	⬆
380	⬆	⬆	⬆	⬆	⬆	⬆
390	⬆	⬆	⬆	⬆	⬆	⬆
400	⬆	⬆	⬆	⬆	⬆	⬆
410	⬆	⬆	⬆	⬆	⬆	⬆



[illegible]

	360	660	670	680	690	700
360						
370						
380						
390						
400						
410						

