

626 Princesse de Broglie



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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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Princesse de Broglie

Stitch Count	
Horizontal:	396
Vertical:	543

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:	72	28.28	99	38.73	63	24.75	87	33.89	56	22	77	30.125
Including Margins:	88	35	115	45	79	31	103	40	72	29	93	37
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	100	39.59	138	54.22	84	32.99	115	45.18	42	16.49	57	22.59
Including Margins:	116	46	154	61	100	39	131	52	58	23	73	29
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	40	15.83	55	21.68	38	15.22	53	20.85	37	14.66	51	20.08
Including Margins:	56	22	71	28	54	22	69	27	53	21	67	27
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	36	14.14	49	19.36	33	13.19	46	18.07	31	12.37	43	16.94
Including Margins:	52	21	65	26	49	20	62	25	47	19	59	23

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
	367	Pistachio Green-DK
	370	Mustard-MD
	371	Mustard
	372	Mustard-LT
	435	Brown-VY LT
	436	Tan
	437	Tan-LT
	445	Lemon-LT
	500	Blue Green-VY DK
	503	Blue Green-MD
	517	Wedgewood-DK
	520	Fern Green-DK
	523	Fern Green-LT
	564	Jade-VY LT
	597	Turquoise
	611	Drab Brown
	612	Drab Brown-LT
	613	Drab Brown-VY LT
	644	Beige Gray-MD
	645	Beaver Gray-VY DK
	731	Olive Green-DK
	734	Olive Green-LT
	738	Tan-VY LT
	739	Tan-UL VY LT
	743	Yellow-MD
	744	Yellow-Pale
	745	Yellow-LT Pale
	746	Off White
	747	Sky Blue-VY LT
	807	Peacock Blue
	833	Golden Olive-LT
	834	Golden Olive-VY LT
	895	Hunter Green-VY DK
	924	Gray Green-VY DK
	935	Avocado Green-DK
	943	Bright Green-MD
	955	Nile Green-LT
	958	Sea Green-DK
	959	Sea Green-MD

	964	Sea Green-LT
	977	Golden Brown-LT
	991	Aquamarine-DK
	993	Aquamarine-LT
	3011	Khaki Green-DK
	3013	Khaki Green-LT
	3045	Yellow Beige-DK
	3046	Yellow Beige-MD
	3051	Green Gray-DK
	3052	Green Gray-MD
	3053	Green Gray
	3078	Golden Yellow-VY LT
	3348	Yellow Green-LT
	3362	Pine Green-DK
	3363	Pine Green-MD
	3364	Pine Green
	3756	Baby Blue-UL VY LT
	3761	Sky Blue-LT
	3765	Peacock Blue-VY DK
	3787	Brown Gray-DK
	3790	Beige Gray-UL DK
	3799	Pewter Gray-VY DK
	3809	Turquoise-VY DK
	3810	Turquoise-DK
	3811	Turquoise-VY LT
	3812	Sea Green-VY DK
	3814	Aquamarine
	3816	Celadon Green-MD
	3820	Straw-DK
	3822	Straw-LT
	3823	Yellow-UL Pale
	3825	Pumpkin-Pale
	3844	Bright Turquoise-DK
	3845	Bright Turquoise-MD
	3846	Bright Turquoise-LT
	3847	Teal Green-DK
	3849	Teal Green-LT
	3855	Autumn Gold-LT
	3856	Mahogany-UL VY LT
	3862	Mocha Beige-DK
	3866	Mocha Brown-UL VY LT
	Ecru	Ecru

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

Symbol	DMC1	Name1	DMC2	Name2
■	3799	Pewter Gray-VY DK	500	Blue Green-VY DK
1	3823	Yellow-UL Pale	746	Off White
5	3855	Autumn Gold-LT	3825	Pumpkin-Pale
≡	3825	Pumpkin-Pale	3856	Mahogany-UL VY LT
†	3844	Bright Turquoise-DK	3765	Peacock Blue-VY DK
■	3812	Sea Green-VY DK	3844	Bright Turquoise-DK
●	3808	Turquoise-UL VY DK	924	Gray Green--VY DK
9	834	Golden Olive-VY LT	743	Yellow-MD
+	3845	Bright Turquoise-MD	3812	Sea Green-VY DK
■	3812	Sea Green-VY DK	3808	Turquoise-UL VY DK
*	3810	Turquoise-DK	3812	Sea Green-VY DK
▲	734	Olive Green-LT	833	Golden Olive-LT
▲	3808	Turquoise-UL VY DK	3844	Bright Turquoise-DK
♥	520	Fern Green-DK	3799	Pewter Gray-VY DK
←	3362	Pine Green-DK	991	Aquamarine-DK
●	367	Pistachio Green-DK	3362	Pine Green-DK
↘	3363	Pine Green-MD	645	Beaver Gray-VY DK
⊗	3787	Brown Gray-DK	367	Pistachio Green-DK
τ	3855	Autumn Gold-LT	3856	Mahogany-UL VY LT
•	746	Off White	1	White 1
⊗	924	Gray Green--VY DK	500	Blue Green-VY DK
◇	3825	Pumpkin-Pale	437	Tan-LT
4	3046	Yellow Beige-MD	437	Tan-LT
↓	612	Drab Brown-LT	437	Tan-LT
⊕	436	Tan	370	Mustard-MD
◇	371	Mustard	3862	Mocha Beige-DK
●	3862	Mocha Beige-DK	3051	Green Gray-DK
♣	611	Drab Brown	935	Avocado Green-DK
*	3011	Khaki Green-DK	3052	Green Gray-MD
❖	612	Drab Brown-LT	3052	Green Gray-MD
Ⓒ	3790	Beige Gray-UL DK	3052	Green Gray-MD
♠	3051	Green Gray-DK	3052	Green Gray-MD
♣	3051	Green Gray-DK	3011	Khaki Green-DK
✕	3852	Straw-VY DK	370	Mustard-MD
=	435	Brown-VY LT	977	Golden Brown-LT
☆	3853	Autumn Gold-DK	436	Tan
⊞	3853	Autumn Gold-DK	435	Brown-VY LT
*	435	Brown-VY LT	3825	Pumpkin-Pale
¼	3825	Pumpkin-Pale	436	Tan
▨	935	Avocado Green-DK	3362	Pine Green-DK
●	3364	Pine Green	3052	Green Gray-MD
►	645	Beaver Gray-VY DK	3052	Green Gray-MD
+	435	Brown-VY LT	3862	Mocha Beige-DK
≡	611	Drab Brown	612	Drab Brown-LT
⌘	372	Mustard-LT	437	Tan-LT
↔	612	Drab Brown-LT	613	Drab Brown-VY LT
⊕	611	Drab Brown	372	Mustard-LT
≡	520	Fern Green-DK	3362	Pine Green-DK
0	747	Sky Blue-VY LT	3846	Bright Turquoise-LT
●	991	Aquamarine-DK	3810	Turquoise-DK
↓	3808	Turquoise-UL VY DK	3847	Teal Green-DK
⌘	3812	Sea Green-VY DK	3847	Teal Green-DK
／	3823	Yellow-UL Pale	739	Tan-UL VY LT

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>	3078	Golden Yellow-VY LT	739	Tan-UL VY LT
3	739	Tan-UL VY LT	613	Drab Brown-VY LT
::	ecru	Ecru	955	Nile Green-LT
†	964	Sea Green-LT	3846	Bright Turquoise-LT
©	3810	Turquoise-DK	3845	Bright Turquoise-MD
田	807	Peacock Blue	3846	Bright Turquoise-LT
«	747	Sky Blue-VY LT	1	White 1
=	747	Sky Blue-VY LT	3761	Sky Blue-LT
L	3756	Baby Blue-UL VY LT	746	Off White
Ø	3816	Celadon Green-MD	958	Sea Green-DK
~	993	Aquamarine-LT	503	Blue Green-MD
m	3766	Peacock Blue-LT	964	Sea Green-LT
~	964	Sea Green-LT	993	Aquamarine-LT
ø	959	Sea Green-MD	964	Sea Green-LT
‡	3846	Bright Turquoise-LT	3845	Bright Turquoise-MD
†	3844	Bright Turquoise-DK	3846	Bright Turquoise-LT
o	3845	Bright Turquoise-MD	3844	Bright Turquoise-DK
✱	3812	Sea Green-VY DK	3809	Turquoise-VY DK

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

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
1	White 1	115	45	110	43	99	38
367	Pistachio Green-DK	2616	1029	2492	981	2242	882
370	Mustard-MD	142	55	135	53	122	48
371	Mustard	109	42	103	40	93	36
372	Mustard-LT	95	37	90	35	81	31
435	Brown-VY LT	52	20	49	19	44	17
436	Tan	46	18	44	17	40	15
437	Tan-LT	147	57	140	55	126	49
445	Lemon-LT	61	24	58	22	52	20
500	Blue Green-VY DK	2966	1167	2825	1112	2543	1001
503	Blue Green-MD	162	63	154	60	138	54
517	Wedgewood-DK	3	1	3	1	3	1
520	Fern Green-DK	6733	2650	6412	2524	5771	2272
523	Fern Green-LT	154	60	147	57	132	51
564	Jade-VY LT	189	74	180	70	162	63
597	Turquoise	5	1	5	1	4	1
611	Drab Brown	359	141	342	134	308	121
612	Drab Brown-LT	210	82	200	78	180	70
613	Drab Brown-VY LT	364	143	347	136	312	122
644	Beige Gray-MD	113	44	107	42	97	38
645	Beaver Gray-VY DK	1053	414	1003	394	903	355
731	Olive Green-DK	38	14	36	14	33	12
734	Olive Green-LT	152	59	145	57	130	51
738	Tan-VY LT	86	33	82	32	74	29
739	Tan-UL VY LT	572	225	545	214	491	193
743	Yellow-MD	132	51	126	49	113	44
744	Yellow-Pale	293	115	279	109	251	98
745	Yellow-LT Pale	862	339	821	323	739	290
746	Off White	978	385	931	366	838	329
747	Sky Blue-VY LT	1722	677	1640	645	1476	581
807	Peacock Blue	112	44	106	41	96	37
833	Golden Olive-LT	109	42	104	40	94	37
834	Golden Olive-VY LT	185	72	176	69	158	62
895	Hunter Green-VY DK	115	45	110	43	99	38
924	Gray Green--VY DK	1106	435	1054	414	948	373
935	Avocado Green-DK	914	359	871	342	784	308
943	Bright Green-MD	43	16	41	16	37	14
955	Nile Green-LT	403	158	384	151	345	135
958	Sea Green-DK	133	52	127	50	114	44
959	Sea Green-MD	213	83	203	79	182	71
964	Sea Green-LT	654	257	623	245	561	220
977	Golden Brown-LT	28	11	27	10	24	9
991	Aquamarine-DK	1973	776	1879	739	1691	665
993	Aquamarine-LT	193	75	184	72	166	65
3011	Khaki Green-DK	335	131	319	125	287	112
3013	Khaki Green-LT	130	51	124	48	112	44
3045	Yellow Beige-DK	87	34	83	32	74	29
3046	Yellow Beige-MD	234	92	223	87	201	79
3051	Green Gray-DK	580	228	552	217	497	195
3052	Green Gray-MD	830	326	791	311	712	280
3053	Green Gray	117	46	112	44	101	39
3078	Golden Yellow-VY LT	736	289	701	275	631	248
3348	Yellow Green-LT	211	83	201	79	180	70

3362	Pine Green-DK	7118	2802	6779	2668	6101	2401
3363	Pine Green-MD	2438	959	2322	914	2090	822
3364	Pine Green	236	92	225	88	203	79
3756	Baby Blue-UL VY LT	104	40	99	38	89	35
3761	Sky Blue-LT	193	75	183	72	165	64
3765	Peacock Blue-VY DK	26	10	25	9	22	8
3766	Peacock Blue-LT	16	6	15	5	14	5
3787	Brown Gray-DK	1519	598	1447	569	1302	512
3790	Beige Gray-UL DK	47	18	45	17	40	15
3799	Pewter Gray-VY DK	2595	1021	2471	972	2224	875
3808	Turquoise-UL VY DK	415	163	395	155	356	140
3809	Turquoise-VY DK	184	72	175	68	157	61
3810	Turquoise-DK	351	138	335	131	301	118
3811	Turquoise-VY LT	103	40	98	38	89	35
3812	Sea Green-VY DK	1839	724	1752	689	1576	620
3814	Aquamarine	84	33	80	31	72	28
3816	Celadon Green-MD	293	115	279	109	251	98
3820	Straw-DK	18	7	17	6	15	5
3822	Straw-LT	132	51	126	49	113	44
3823	Yellow-UL Pale	644	253	614	241	552	217
3825	Pumpkin-Pale	146	57	139	54	125	49
3844	Bright Turquoise-DK	3243	1276	3088	1215	2780	1094
3845	Bright Turquoise-MD	3888	1530	3703	1457	3332	1311
3846	Bright Turquoise-LT	3540	1393	3372	1327	3035	1194
3847	Teal Green-DK	313	123	298	117	268	105
3849	Teal Green-LT	56	22	53	20	48	18
3852	Straw-VY DK	31	12	30	11	27	10
3853	Autumn Gold-DK	9	3	8	3	7	2
3855	Autumn Gold-LT	526	207	501	197	451	177
3856	Mahogany-UL VY LT	186	73	177	69	160	62
3862	Mocha Beige-DK	63	24	60	23	54	21
3866	Mocha Brown-UL VY LT	3	1	3	1	3	1
ecru	Ecu	310	122	295	116	266	104

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	178	68	149	57	74	29
367	Pistachio Green-DK	4036	1588	3363	1323	1682	662
370	Mustard-MD	220	86	183	72	92	36
371	Mustard	167	65	140	54	70	27
372	Mustard-LT	146	56	122	47	61	23
435	Brown-VY LT	79	31	66	26	33	13
436	Tan	72	27	60	23	30	11
437	Tan-LT	227	88	189	74	95	37
445	Lemon-LT	94	36	78	30	39	15
500	Blue Green-VY DK	4577	1802	3815	1502	1907	751
503	Blue Green-MD	248	97	207	81	104	41
517	Wedgewood-DK	5	2	5	2	2	1
520	Fern Green-DK	10388	4090	8657	3408	4328	1704
523	Fern Green-LT	238	92	198	77	99	38
564	Jade-VY LT	292	113	243	95	122	47
597	Turquoise	7	2	6	2	3	1
611	Drab Brown	554	218	462	182	231	91
612	Drab Brown-LT	324	126	270	105	135	53
613	Drab Brown-VY LT	562	220	468	183	234	92

644	Beige Gray-MD	175	68	146	57	73	29
645	Beaver Gray-VY DK	1625	639	1355	533	677	266
731	Olive Green-DK	59	22	50	18	25	9
734	Olive Green-LT	234	92	195	77	98	38
738	Tan-VY LT	133	52	111	44	56	22
739	Tan-UL VY LT	884	347	737	290	368	145
743	Yellow-MD	203	79	170	66	85	33
744	Yellow-Pale	452	176	377	147	188	74
745	Yellow-LT Pale	1330	522	1109	435	554	218
746	Off White	1508	592	1257	494	629	247
747	Sky Blue-VY LT	2657	1046	2214	872	1107	436
807	Peacock Blue	173	67	144	56	72	28
833	Golden Olive-LT	169	67	141	56	71	28
834	Golden Olive-VY LT	284	112	237	93	119	47
895	Hunter Green-VY DK	178	68	149	57	74	29
924	Gray Green--VY DK	1706	671	1422	560	711	280
935	Avocado Green-DK	1411	554	1176	462	588	231
943	Bright Green-MD	67	25	56	21	28	11
955	Nile Green-LT	621	243	518	203	259	101
958	Sea Green-DK	205	79	171	66	86	33
959	Sea Green-MD	328	128	273	107	137	53
964	Sea Green-LT	1010	396	842	330	421	165
977	Golden Brown-LT	43	16	36	14	18	7
991	Aquamarine-DK	3044	1197	2537	998	1268	499
993	Aquamarine-LT	299	117	249	98	125	49
3011	Khaki Green-DK	517	202	431	168	215	84
3013	Khaki Green-LT	202	79	168	66	84	33
3045	Yellow Beige-DK	133	52	111	44	56	22
3046	Yellow Beige-MD	362	142	302	119	151	59
3051	Green Gray-DK	895	351	746	293	373	146
3052	Green Gray-MD	1282	504	1068	420	534	210
3053	Green Gray	182	70	152	59	76	29
3078	Golden Yellow-VY LT	1136	446	947	372	473	186
3348	Yellow Green-LT	324	126	270	105	135	53
3362	Pine Green-DK	10982	4322	9152	3602	4576	1801
3363	Pine Green-MD	3762	1480	3135	1233	1568	617
3364	Pine Green	365	142	305	119	152	59
3756	Baby Blue-UL VY LT	160	63	134	53	67	26
3761	Sky Blue-LT	297	115	248	96	124	48
3765	Peacock Blue-VY DK	40	14	33	12	17	6
3766	Peacock Blue-LT	25	9	21	8	11	4
3787	Brown Gray-DK	2344	922	1953	768	977	384
3790	Beige Gray-UL DK	72	27	60	23	30	11
3799	Pewter Gray-VY DK	4003	1575	3336	1313	1668	656
3808	Turquoise-UL VY DK	641	252	534	210	267	105
3809	Turquoise-VY DK	283	110	236	92	118	46
3810	Turquoise-DK	542	212	452	177	226	89
3811	Turquoise-VY LT	160	63	134	53	67	26
3812	Sea Green-VY DK	2837	1116	2364	930	1182	465
3814	Aquamarine	130	50	108	42	54	21
3816	Celadon Green-MD	452	176	377	147	188	74
3820	Straw-DK	27	9	23	8	11	4
3822	Straw-LT	203	79	170	66	85	33
3823	Yellow-UL Pale	994	391	828	326	414	163
3825	Pumpkin-Pale	225	88	188	74	94	37
3844	Bright Turquoise-DK	5004	1969	4170	1641	2085	821
3845	Bright Turquoise-MD	5998	2360	4998	1967	2499	983
3846	Bright Turquoise-LT	5463	2149	4553	1791	2276	896
3847	Teal Green-DK	482	189	402	158	201	79

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3849	Teal Green-LT	86	32	72	27	36	14
3852	Straw-VY DK	49	18	41	15	20	8
3853	Autumn Gold-DK	13	4	11	3	5	2
3855	Autumn Gold-LT	812	319	677	266	338	133
3856	Mahogany-UL VY LT	288	112	240	93	120	47
3862	Mocha Beige-DK	97	38	81	32	41	16
3866	Mocha Brown-UL VY LT	5	2	5	2	2	1
ecru	Ecru	479	187	399	156	200	78

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
	1 White 1	71	27	69	26	66	25
367	Pistachio Green-DK	1614	635	1552	611	1495	588
370	Mustard-MD	88	35	84	33	81	32
371	Mustard	67	26	64	25	62	24
372	Mustard-LT	58	22	56	21	54	21
435	Brown-VY LT	32	12	30	12	29	11
436	Tan	29	11	28	10	27	10
437	Tan-LT	91	35	87	34	84	33
445	Lemon-LT	37	14	36	14	35	13
500	Blue Green-VY DK	1831	721	1761	693	1695	667
503	Blue Green-MD	99	39	96	37	92	36
517	Wedgewood-DK	2	1	2	1	2	1
520	Fern Green-DK	4155	1636	3995	1573	3847	1515
523	Fern Green-LT	95	37	91	35	88	34
564	Jade-VY LT	117	45	112	44	108	42
597	Turquoise	3	1	3	1	3	1
611	Drab Brown	222	87	213	84	205	81
612	Drab Brown-LT	130	50	125	48	120	47
613	Drab Brown-VY LT	225	88	216	84	208	81
644	Beige Gray-MD	70	27	67	26	65	25
645	Beaver Gray-VY DK	650	256	625	246	602	237
731	Olive Green-DK	24	9	23	8	22	8
734	Olive Green-LT	94	37	90	35	87	34
738	Tan-VY LT	53	21	51	20	49	19
739	Tan-UL VY LT	354	139	340	134	327	129
743	Yellow-MD	81	32	78	30	75	29
744	Yellow-Pale	181	71	174	68	167	65
745	Yellow-LT Pale	532	209	512	201	493	193
746	Off White	603	237	580	228	559	219
747	Sky Blue-VY LT	1063	418	1022	402	984	387
807	Peacock Blue	69	27	66	26	64	25
833	Golden Olive-LT	68	27	65	26	63	25
834	Golden Olive-VY LT	114	45	109	43	105	41
895	Hunter Green-VY DK	71	27	69	26	66	25
924	Gray Green--VY DK	683	269	656	258	632	249
935	Avocado Green-DK	564	222	543	213	523	205
943	Bright Green-MD	27	10	26	10	25	9
955	Nile Green-LT	248	97	239	93	230	90
958	Sea Green-DK	82	32	79	30	76	29
959	Sea Green-MD	131	51	126	49	121	47
964	Sea Green-LT	404	158	388	152	374	147
977	Golden Brown-LT	17	6	17	6	16	6
991	Aquamarine-DK	1218	479	1171	460	1127	443
993	Aquamarine-LT	120	47	115	45	111	43

3011	Khaki Green-DK	207	81	199	78	191	75
3013	Khaki Green-LT	81	32	78	30	75	29
3045	Yellow Beige-DK	53	21	51	20	49	19
3046	Yellow Beige-MD	145	57	139	55	134	53
3051	Green Gray-DK	358	140	344	135	331	130
3052	Green Gray-MD	513	202	493	194	475	187
3053	Green Gray	73	28	70	27	67	26
3078	Golden Yellow-VY LT	454	179	437	172	421	165
3348	Yellow Green-LT	130	50	125	48	120	47
3362	Pine Green-DK	4393	1729	4224	1662	4067	1601
3363	Pine Green-MD	1505	592	1447	569	1393	548
3364	Pine Green	146	57	141	55	135	53
3756	Baby Blue-UL VY LT	64	25	62	24	59	23
3761	Sky Blue-LT	119	46	114	44	110	43
3765	Peacock Blue-VY DK	16	6	15	6	15	5
3766	Peacock Blue-LT	10	4	10	3	9	3
3787	Brown Gray-DK	937	369	901	354	868	341
3790	Beige Gray-UL DK	29	11	28	10	27	10
3799	Pewter Gray-VY DK	1601	630	1540	606	1483	583
3808	Turquoise-UL VY DK	256	101	246	97	237	93
3809	Turquoise-VY DK	113	44	109	42	105	41
3810	Turquoise-DK	217	85	208	82	201	79
3811	Turquoise-VY LT	64	25	62	24	59	23
3812	Sea Green-VY DK	1135	446	1091	429	1051	413
3814	Aquamarine	52	20	50	19	48	19
3816	Celadon Green-MD	181	71	174	68	167	65
3820	Straw-DK	11	4	10	3	10	3
3822	Straw-LT	81	32	78	30	75	29
3823	Yellow-UL Pale	397	156	382	150	368	145
3825	Pumpkin-Pale	90	35	87	34	83	33
3844	Bright Turquoise-DK	2002	788	1925	757	1853	729
3845	Bright Turquoise-MD	2399	944	2307	908	2221	874
3846	Bright Turquoise-LT	2185	860	2101	827	2023	796
3847	Teal Green-DK	193	76	186	73	179	70
3849	Teal Green-LT	35	13	33	12	32	12
3852	Straw-VY DK	19	7	19	7	18	7
3853	Autumn Gold-DK	5	1	5	1	5	1
3855	Autumn Gold-LT	325	127	312	123	301	118
3856	Mahogany-UL VY LT	115	45	111	43	107	41
3862	Mocha Beige-DK	39	15	37	15	36	14
3866	Mocha Brown-UL VY LT	2	1	2	1	2	1
ecru	Ecu	192	75	184	72	177	69

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	64	24	59	23	56	21
367	Pistachio Green-DK	1441	567	1345	529	1261	496
370	Mustard-MD	78	31	73	29	69	27
371	Mustard	60	23	56	22	52	20
372	Mustard-LT	52	20	49	19	46	17
435	Brown-VY LT	28	11	26	10	25	10
436	Tan	26	10	24	9	23	8
437	Tan-LT	81	32	76	29	71	28
445	Lemon-LT	33	13	31	12	29	11
500	Blue Green-VY DK	1635	644	1526	601	1430	563
503	Blue Green-MD	89	35	83	32	78	30

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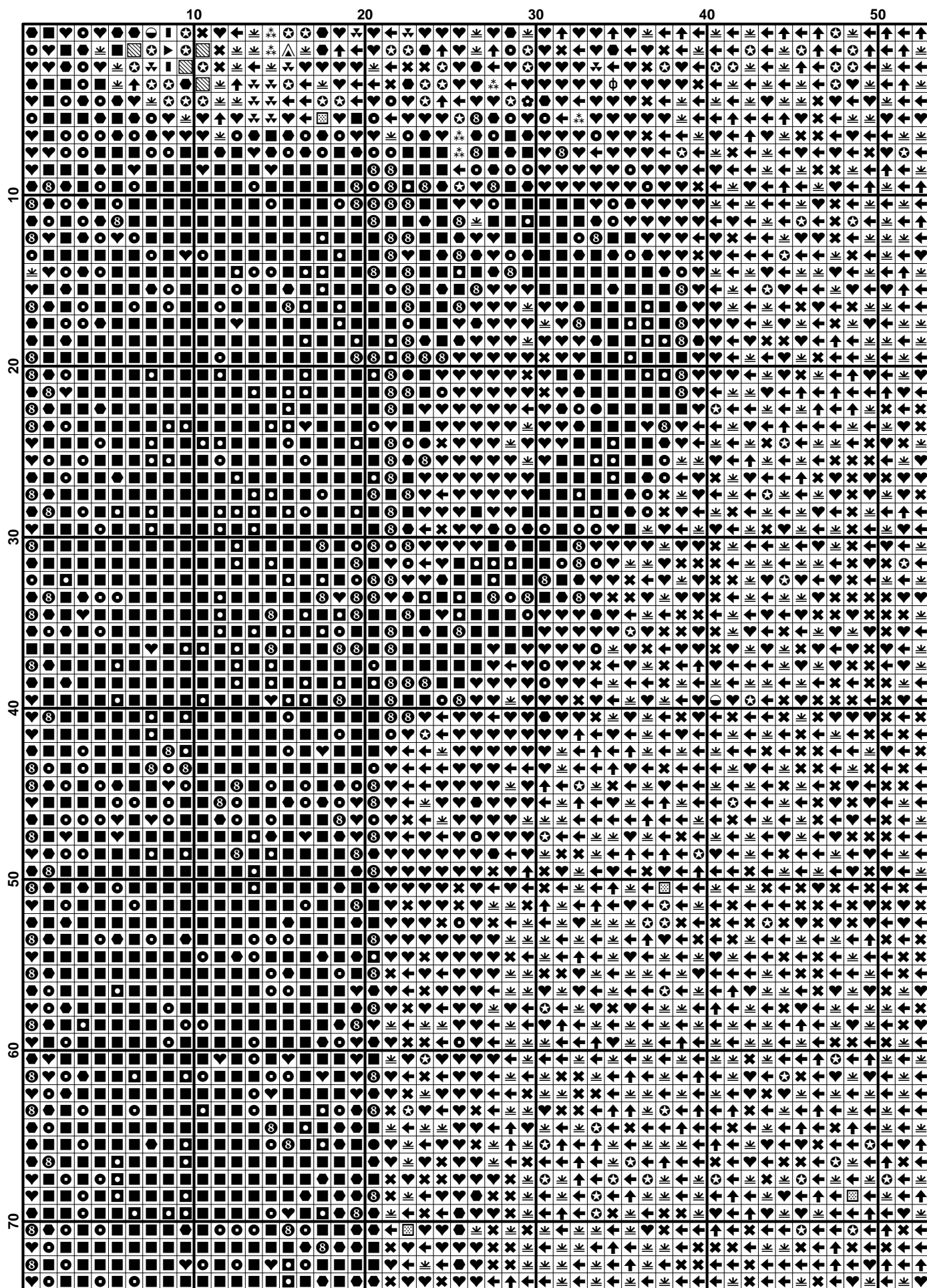
517	Wedgewood-DK	2	1	2	1	2	1
520	Fern Green-DK	3710	1461	3463	1363	3246	1278
523	Fern Green-LT	85	33	79	31	74	29
564	Jade-VY LT	104	41	97	38	91	35
597	Turquoise	3	1	2	1	2	1
611	Drab Brown	198	78	185	73	173	68
612	Drab Brown-LT	116	45	108	42	101	39
613	Drab Brown-VY LT	201	78	187	73	176	69
644	Beige Gray-MD	62	24	58	23	55	21
645	Beaver Gray-VY DK	581	228	542	213	508	200
731	Olive Green-DK	21	8	20	7	19	7
734	Olive Green-LT	84	33	78	31	73	29
738	Tan-VY LT	48	19	44	17	42	16
739	Tan-UL VY LT	316	124	295	116	276	109
743	Yellow-MD	73	28	68	26	64	25
744	Yellow-Pale	161	63	151	59	141	55
745	Yellow-LT Pale	475	186	443	174	416	163
746	Off White	539	212	503	197	471	185
747	Sky Blue-VY LT	949	374	886	349	830	327
807	Peacock Blue	62	24	58	22	54	21
833	Golden Olive-LT	60	24	56	22	53	21
834	Golden Olive-VY LT	102	40	95	37	89	35
895	Hunter Green-VY DK	64	24	59	23	56	21
924	Gray Green--VY DK	609	240	569	224	533	210
935	Avocado Green-DK	504	198	470	185	441	173
943	Bright Green-MD	24	9	22	8	21	8
955	Nile Green-LT	222	87	207	81	194	76
958	Sea Green-DK	73	28	68	26	64	25
959	Sea Green-MD	117	46	109	43	102	40
964	Sea Green-LT	361	141	337	132	316	124
977	Golden Brown-LT	15	6	14	5	14	5
991	Aquamarine-DK	1087	428	1015	399	951	374
993	Aquamarine-LT	107	42	100	39	93	37
3011	Khaki Green-DK	185	72	172	67	161	63
3013	Khaki Green-LT	72	28	67	26	63	25
3045	Yellow Beige-DK	48	19	44	17	42	16
3046	Yellow Beige-MD	129	51	121	47	113	44
3051	Green Gray-DK	320	125	298	117	280	110
3052	Green Gray-MD	458	180	427	168	401	158
3053	Green Gray	65	25	61	23	57	22
3078	Golden Yellow-VY LT	406	159	379	149	355	140
3348	Yellow Green-LT	116	45	108	42	101	39
3362	Pine Green-DK	3922	1544	3661	1441	3432	1351
3363	Pine Green-MD	1344	528	1254	493	1176	462
3364	Pine Green	131	51	122	47	114	44
3756	Baby Blue-UL VY LT	57	23	53	21	50	20
3761	Sky Blue-LT	106	41	99	38	93	36
3765	Peacock Blue-VY DK	14	5	13	5	12	5
3766	Peacock Blue-LT	9	3	8	3	8	3
3787	Brown Gray-DK	837	329	781	307	732	288
3790	Beige Gray-UL DK	26	10	24	9	23	8
3799	Pewter Gray-VY DK	1430	563	1334	525	1251	492
3808	Turquoise-UL VY DK	229	90	214	84	200	79
3809	Turquoise-VY DK	101	39	94	37	88	34
3810	Turquoise-DK	194	76	181	71	169	66
3811	Turquoise-VY LT	57	23	53	21	50	20
3812	Sea Green-VY DK	1013	399	946	372	887	349
3814	Aquamarine	46	18	43	17	41	16
3816	Celadon Green-MD	161	63	151	59	141	55

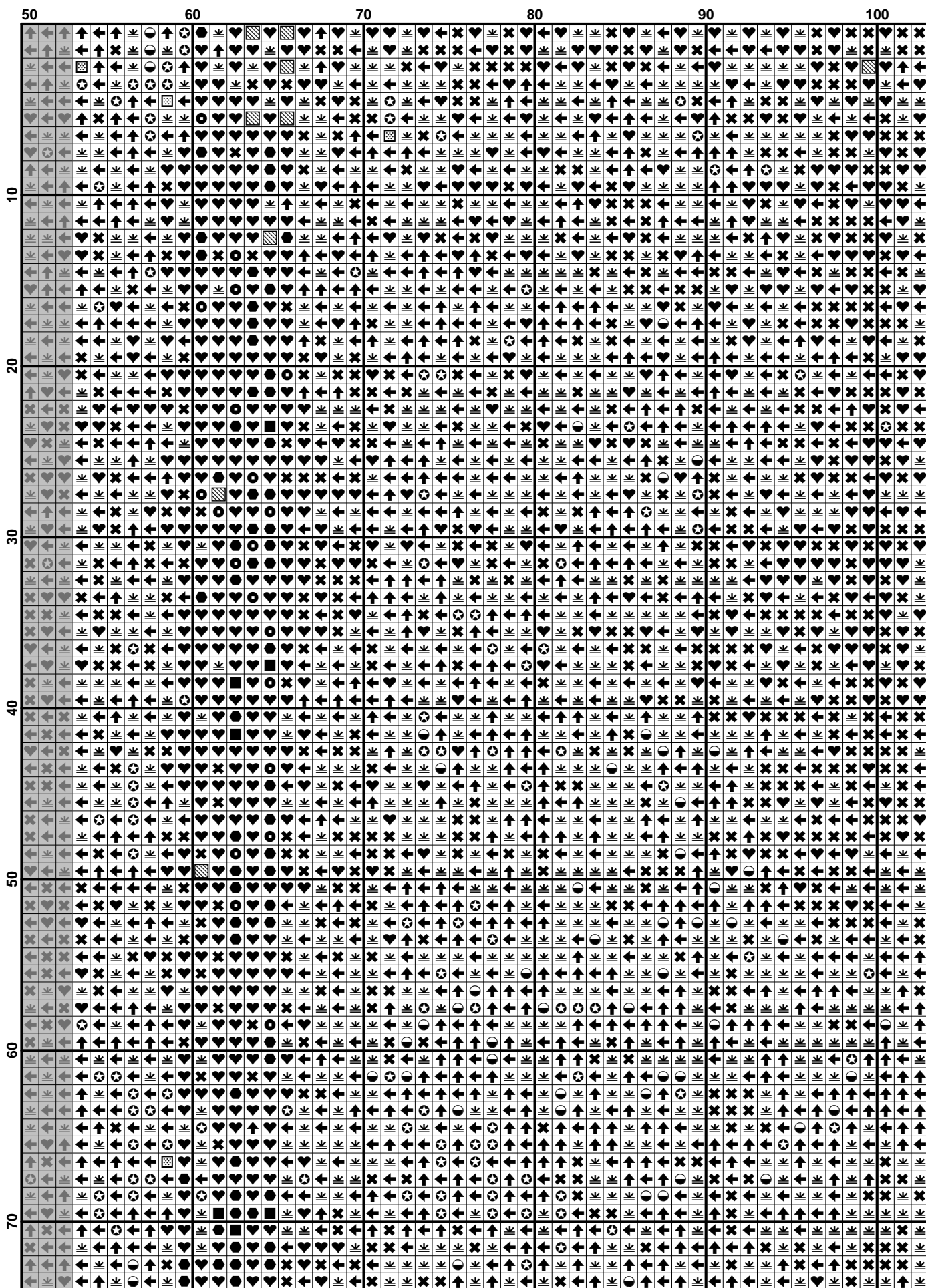
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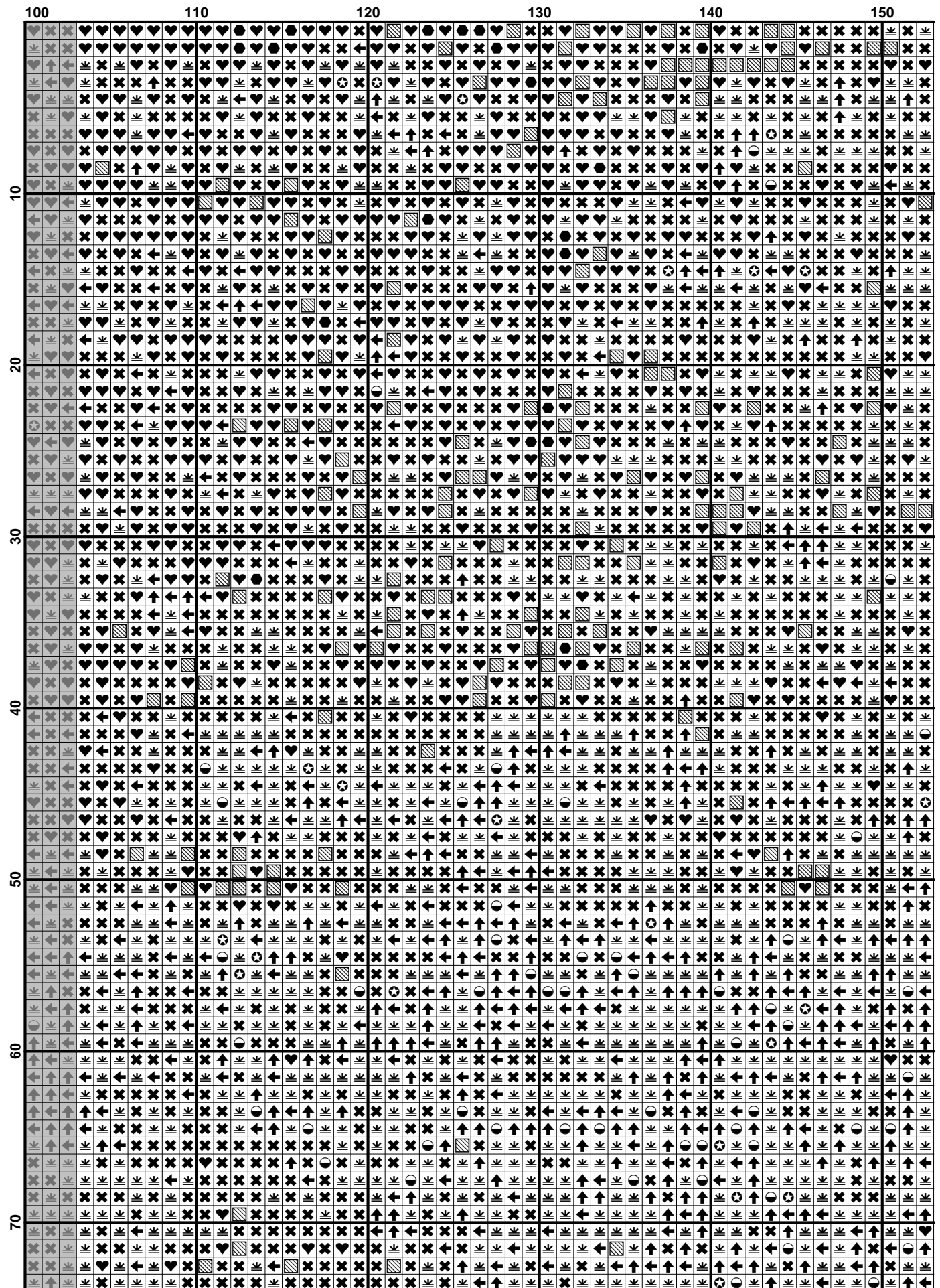
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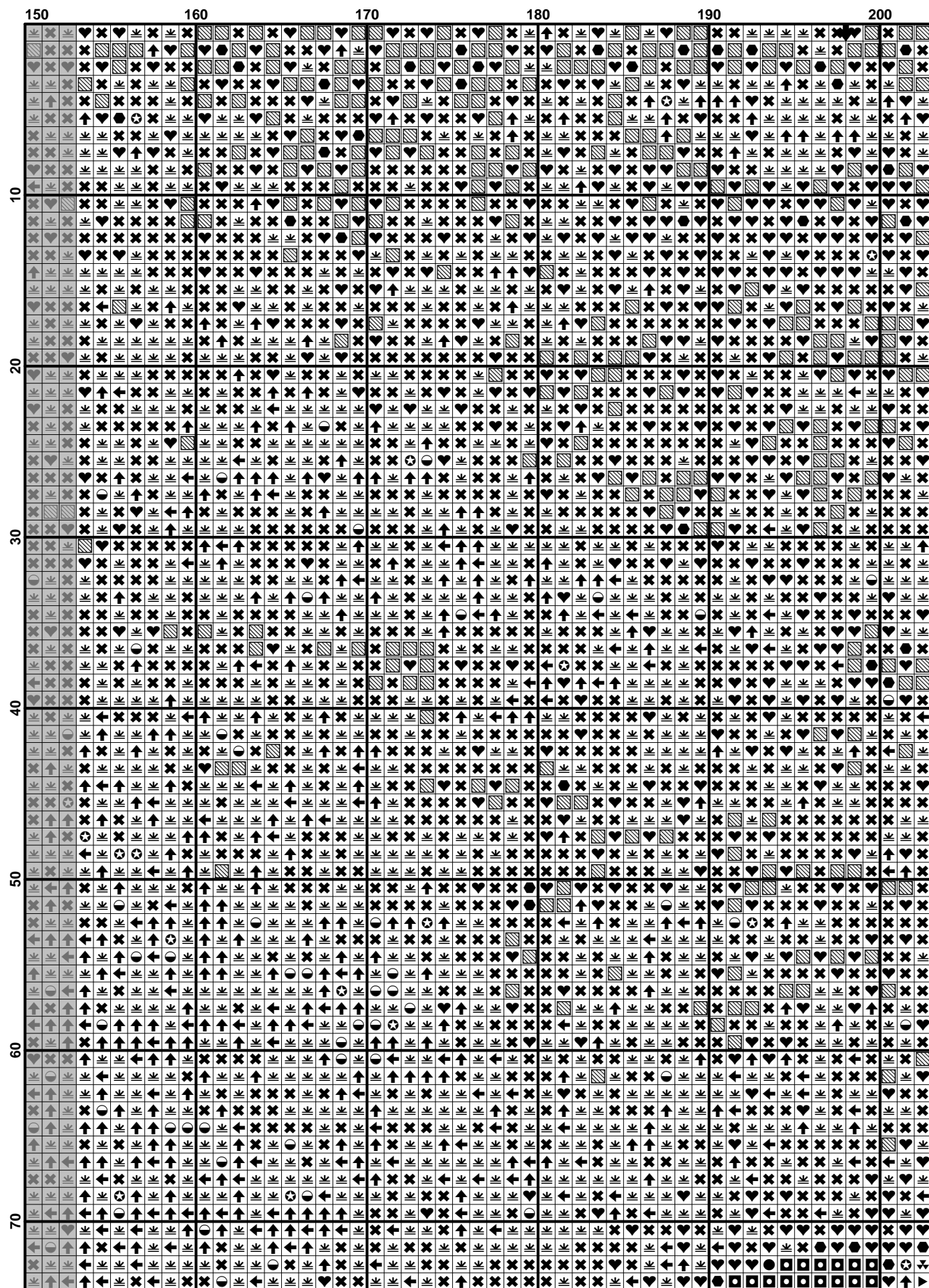
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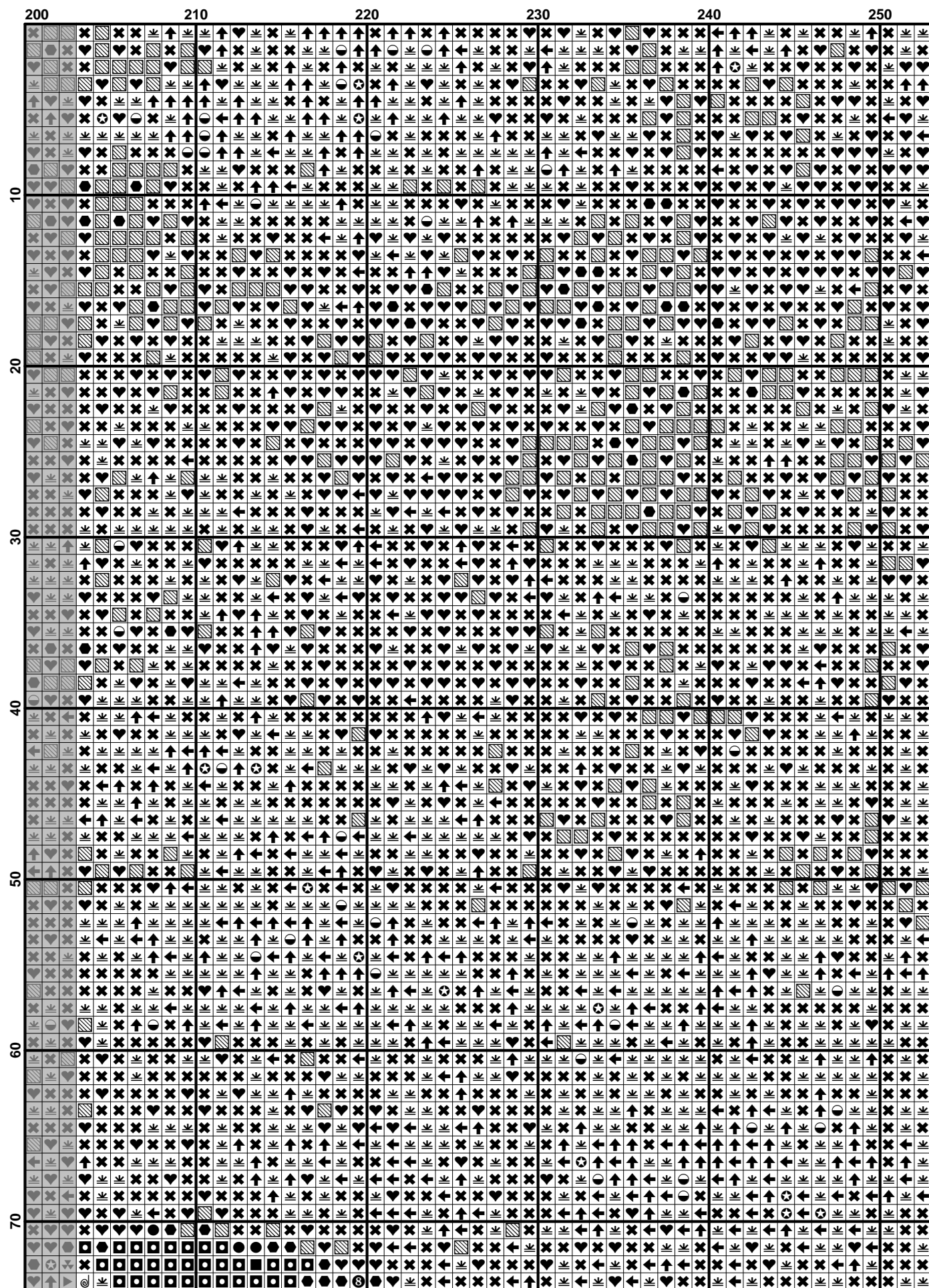
3820	Straw-DK	10	3	9	3	8	3
3822	Straw-LT	73	28	68	26	64	25
3823	Yellow-UL Pale	355	140	331	130	311	122
3825	Pumpkin-Pale	80	32	75	29	70	28
3844	Bright Turquoise-DK	1787	703	1668	656	1564	615
3845	Bright Turquoise-MD	2142	843	1999	787	1874	737
3846	Bright Turquoise-LT	1951	768	1821	716	1707	672
3847	Teal Green-DK	172	68	161	63	151	59
3849	Teal Green-LT	31	12	29	11	27	10
3852	Straw-VY DK	17	6	16	6	15	6
3853	Autumn Gold-DK	5	1	4	1	4	1
3855	Autumn Gold-LT	290	114	271	106	254	100
3856	Mahogany-UL VY LT	103	40	96	37	90	35
3862	Mocha Beige-DK	35	14	32	13	30	12
3866	Mocha Brown-UL VY LT	2	1	2	1	2	1
ecru	Ecru	171	67	160	62	150	59

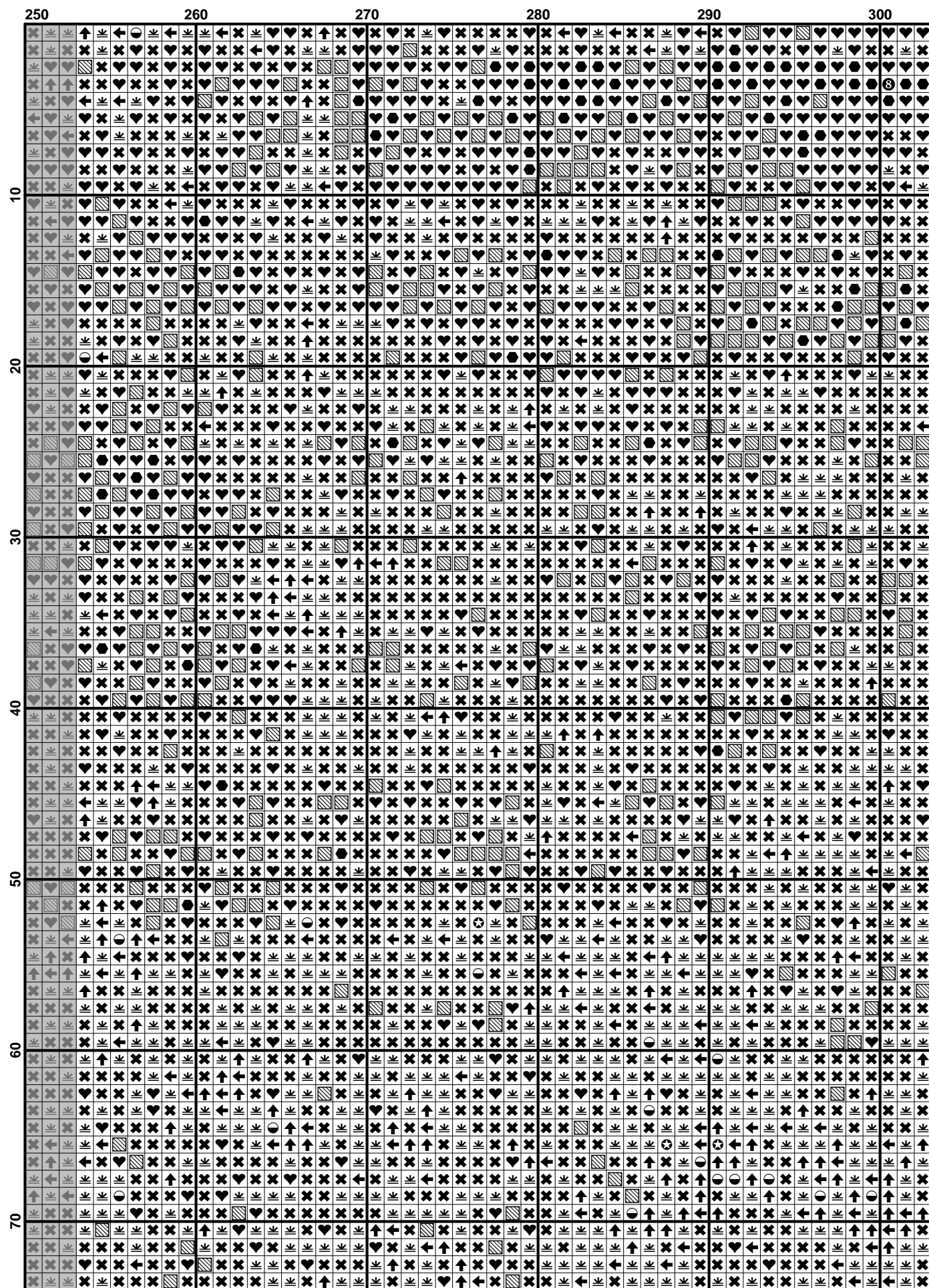


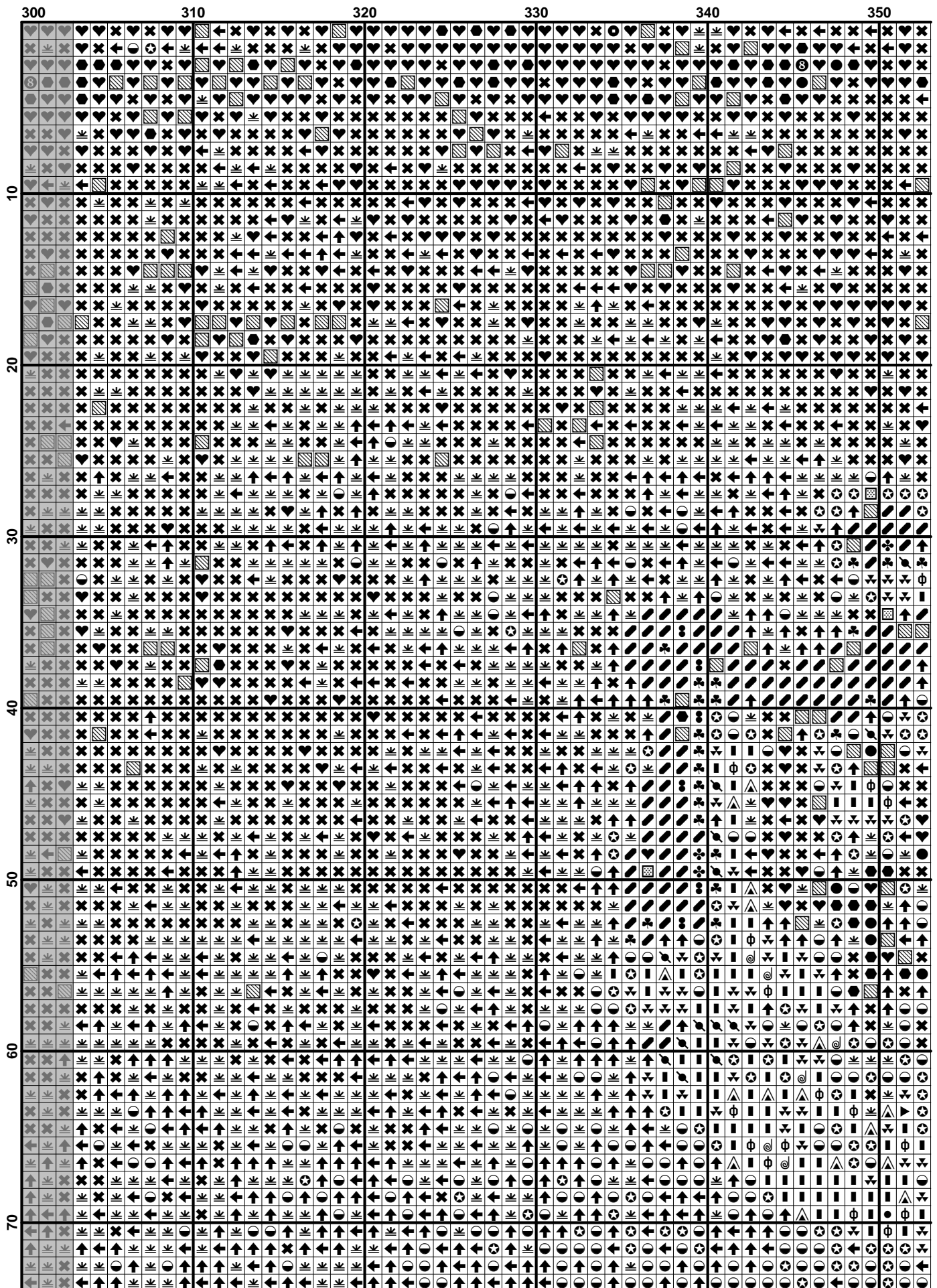


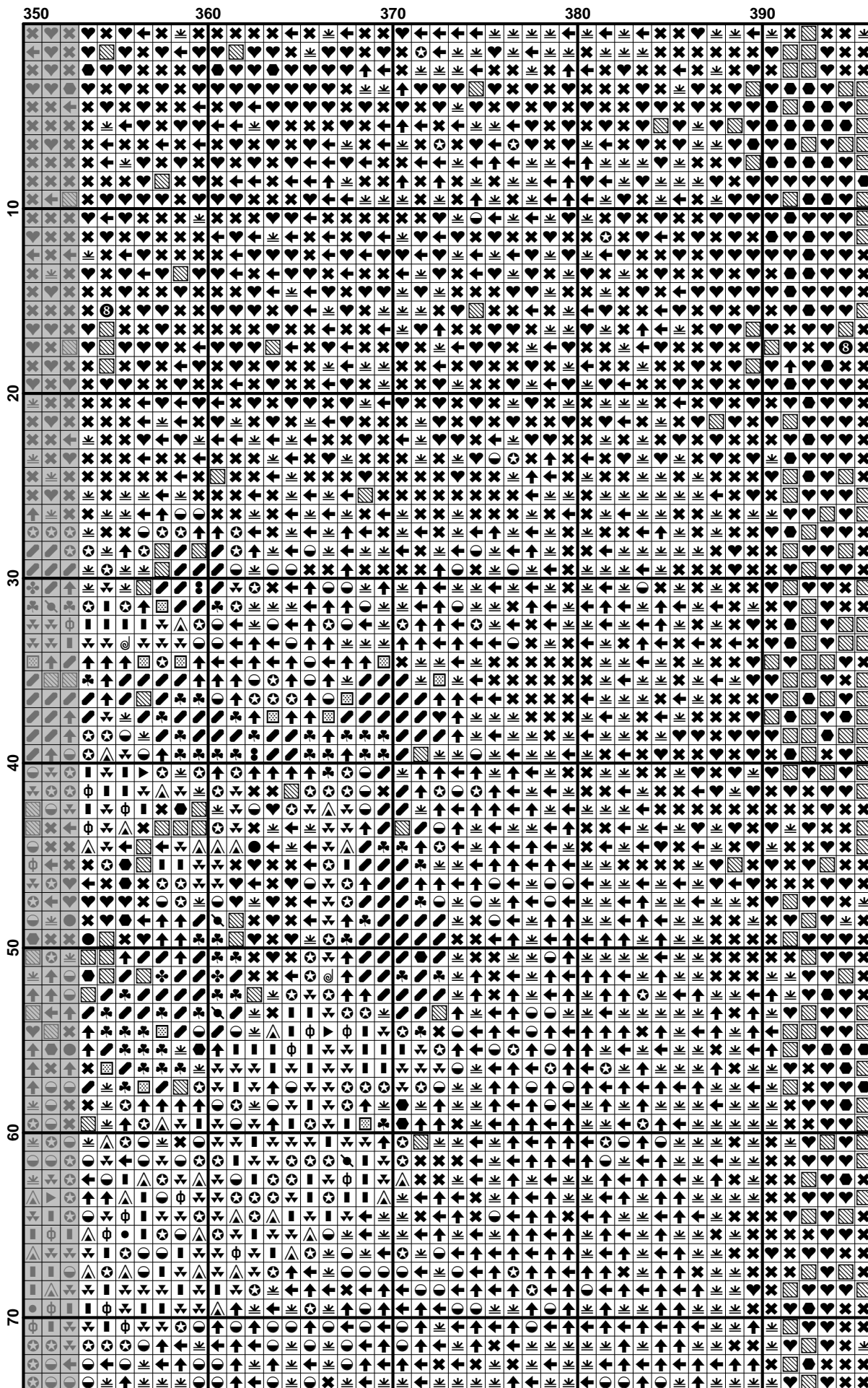


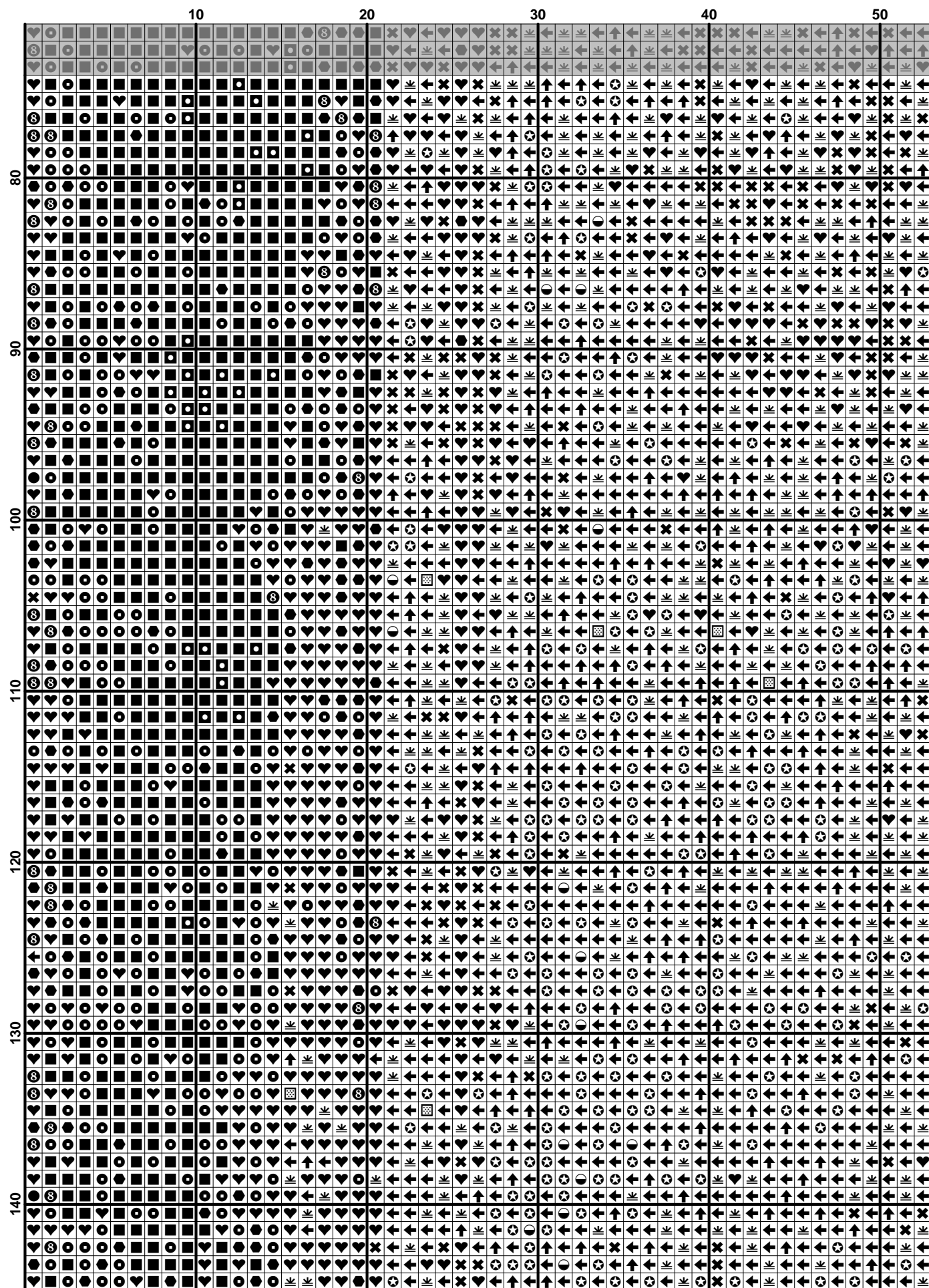


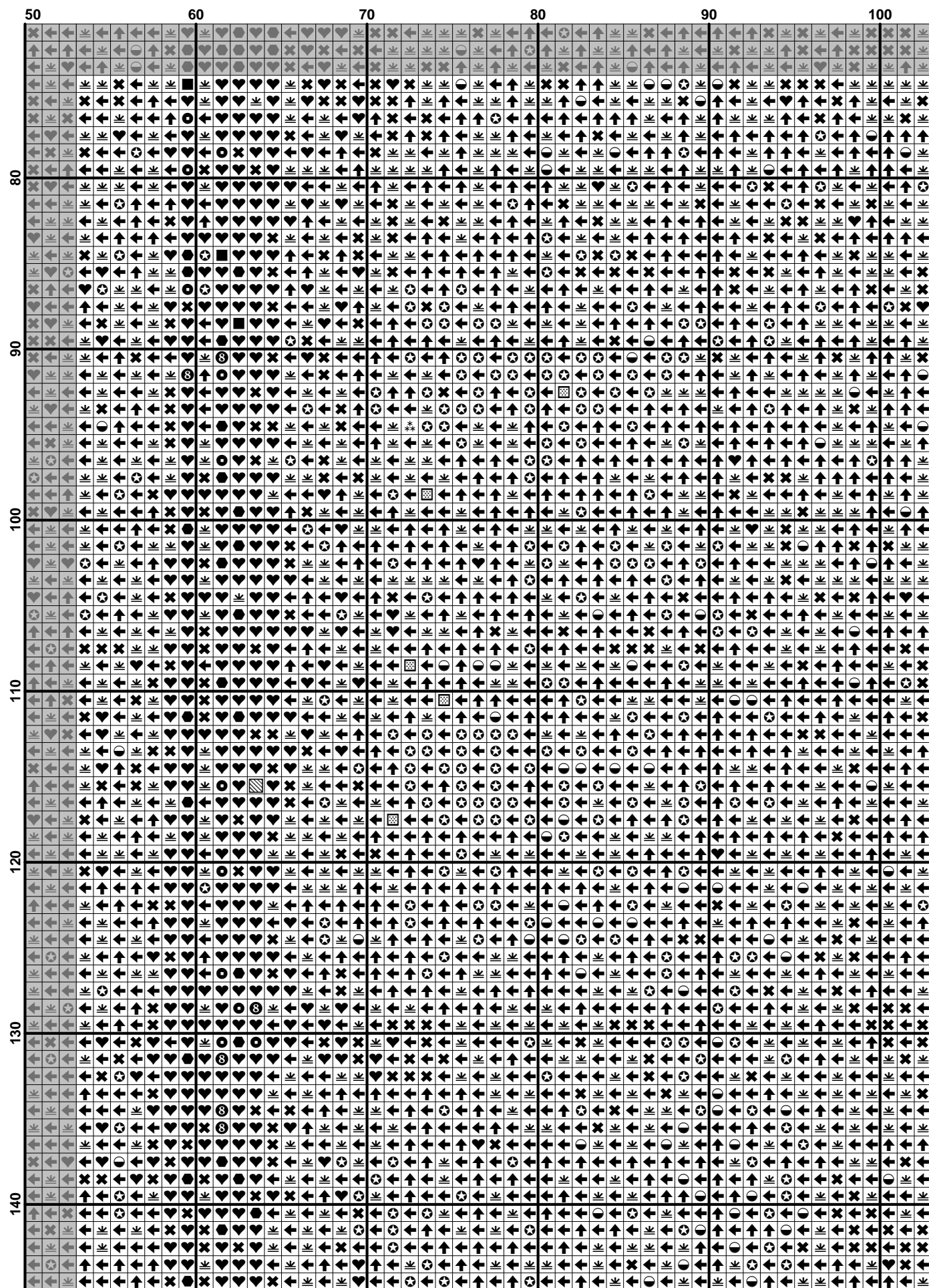


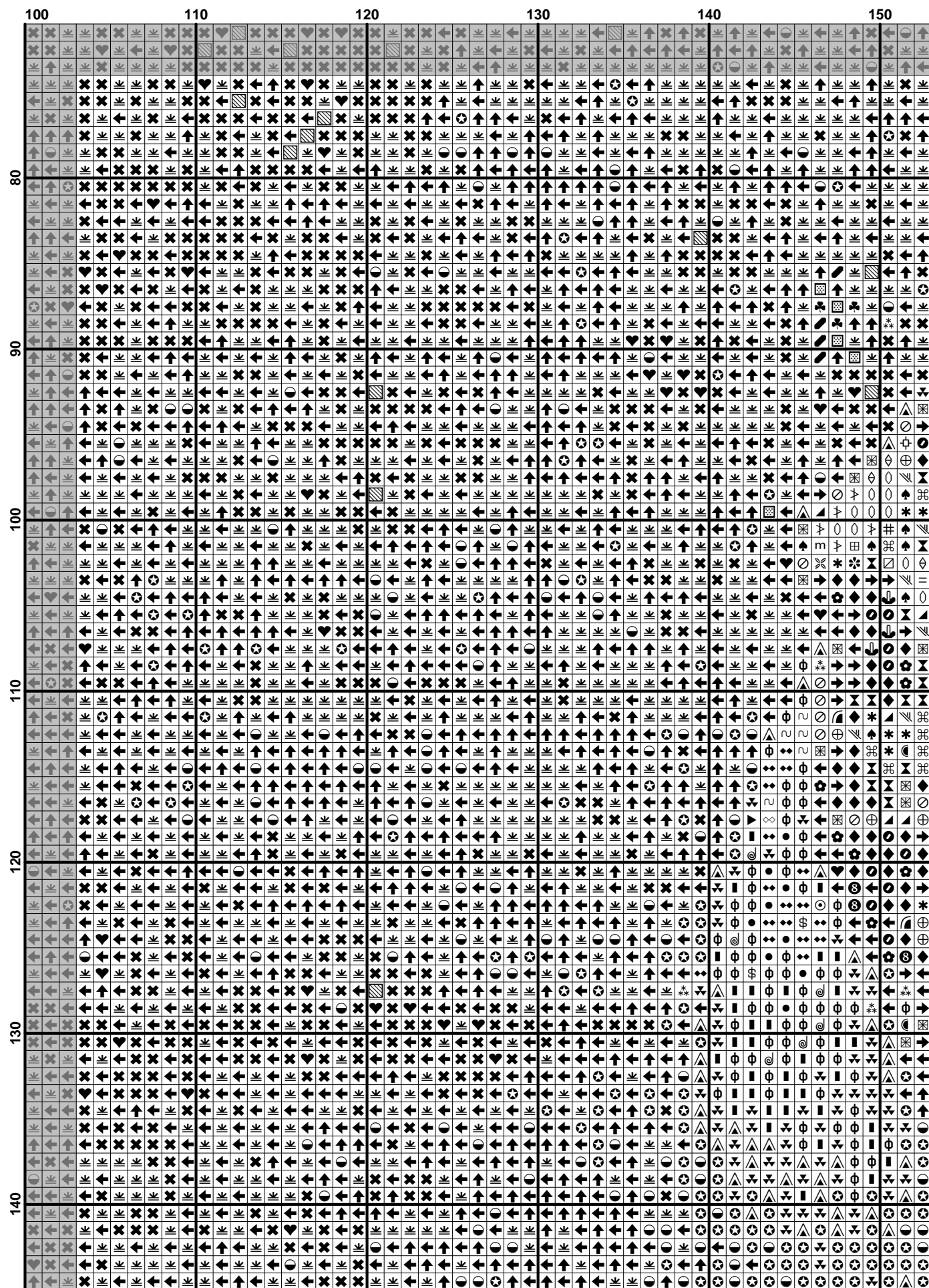




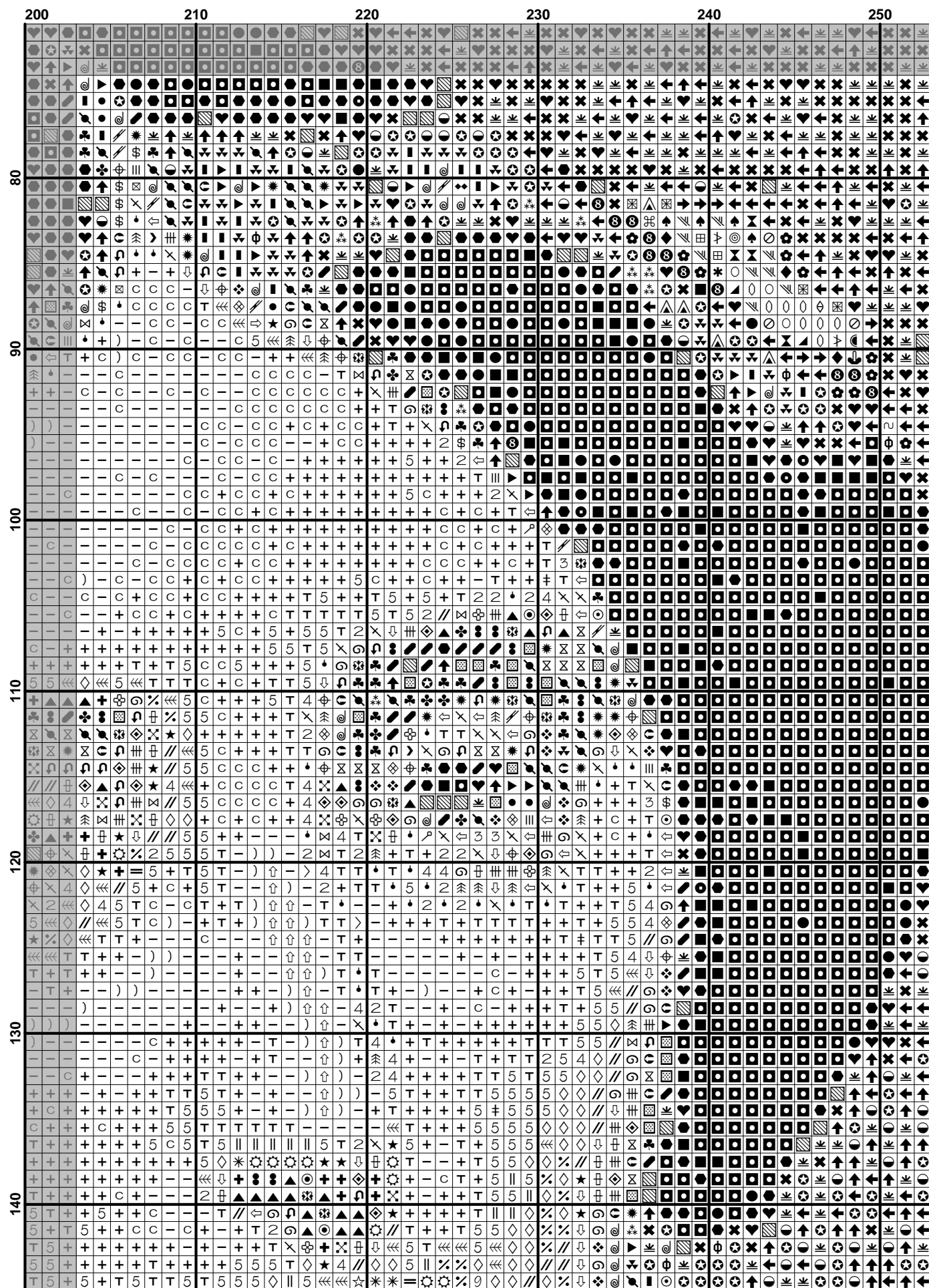


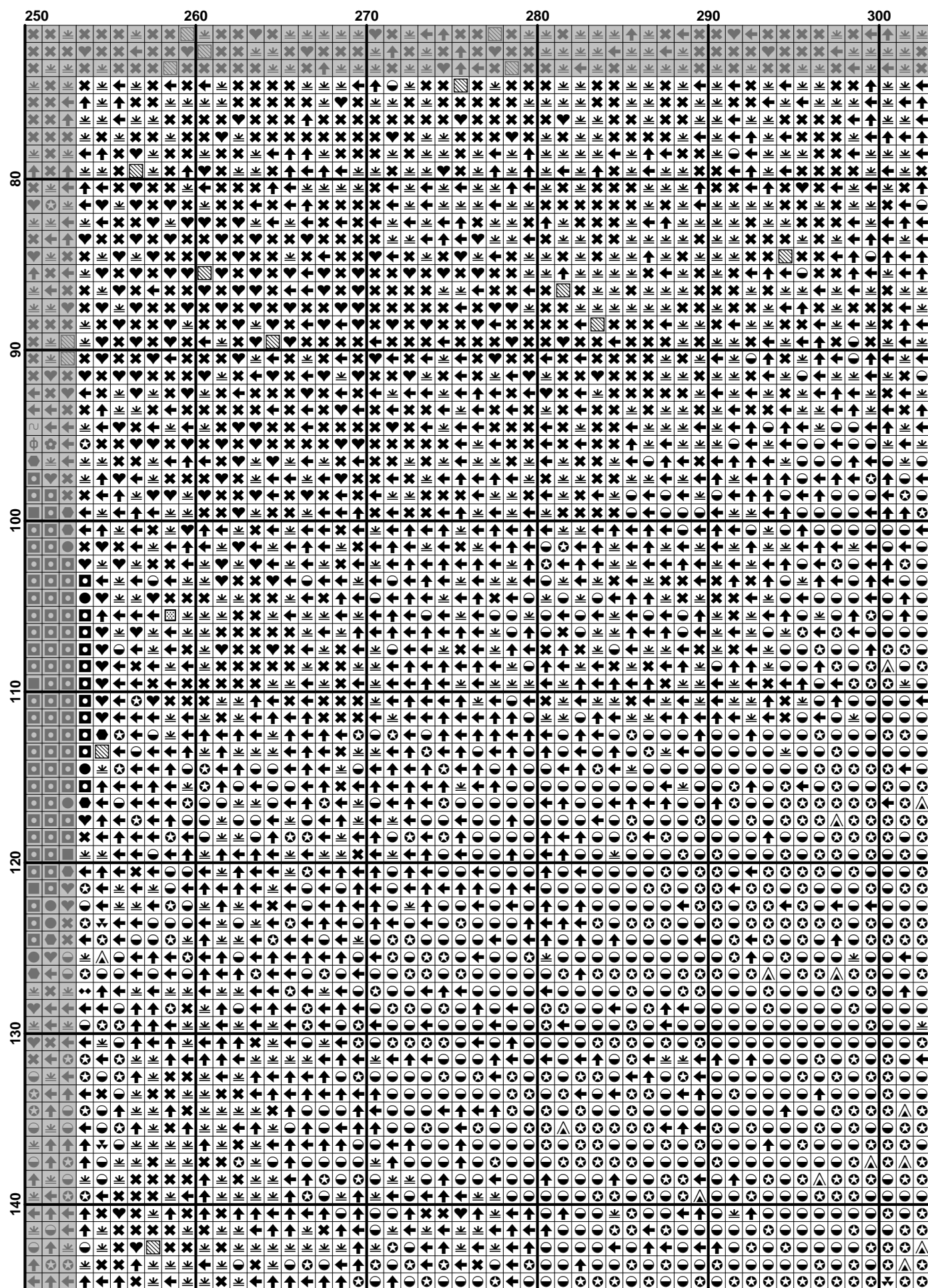


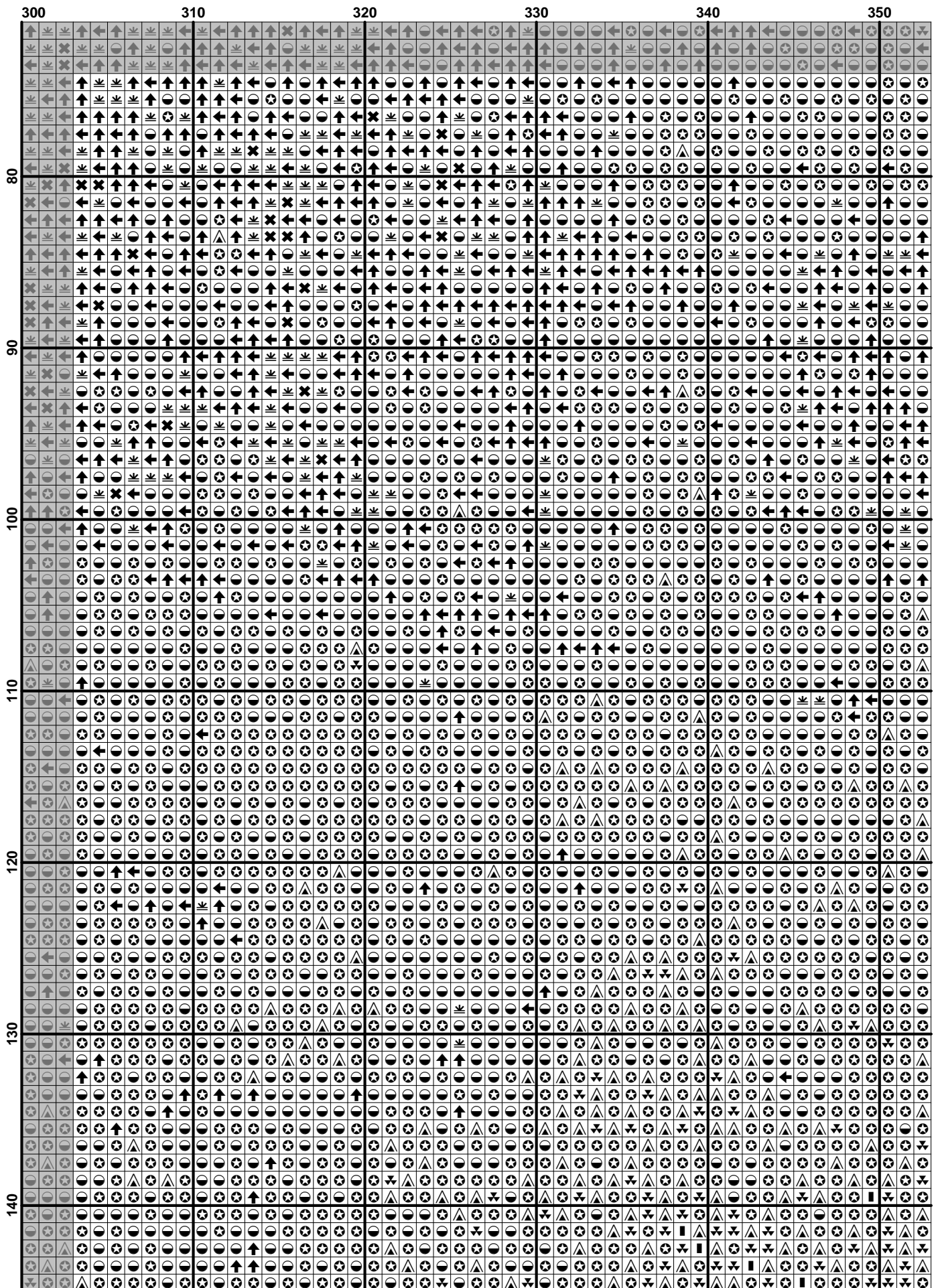




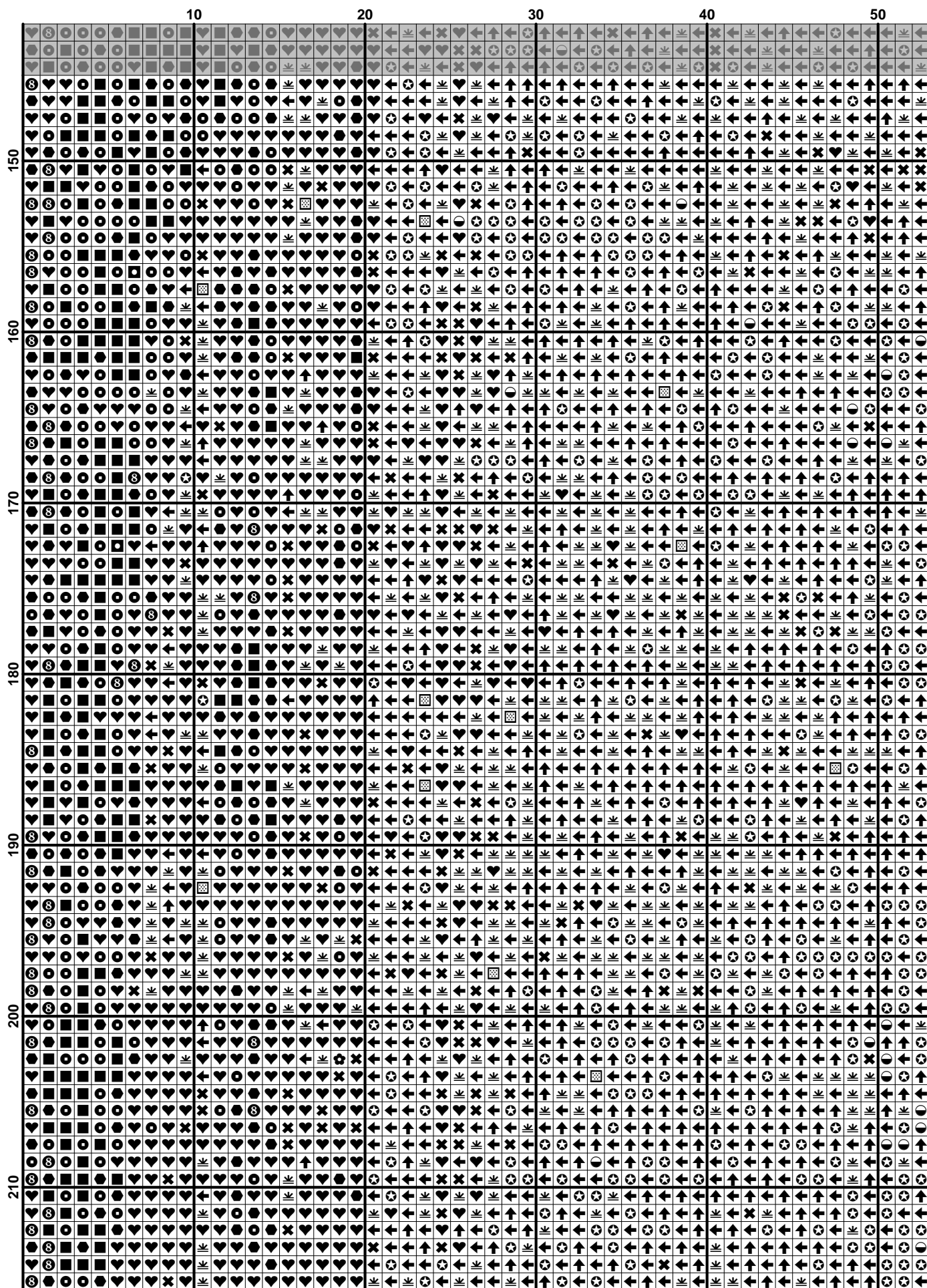
$$(20) \quad \mathcal{H}^1(\mathbb{R}^n, \mathbb{R}) \cong \mathbb{R}^n \quad (21)$$









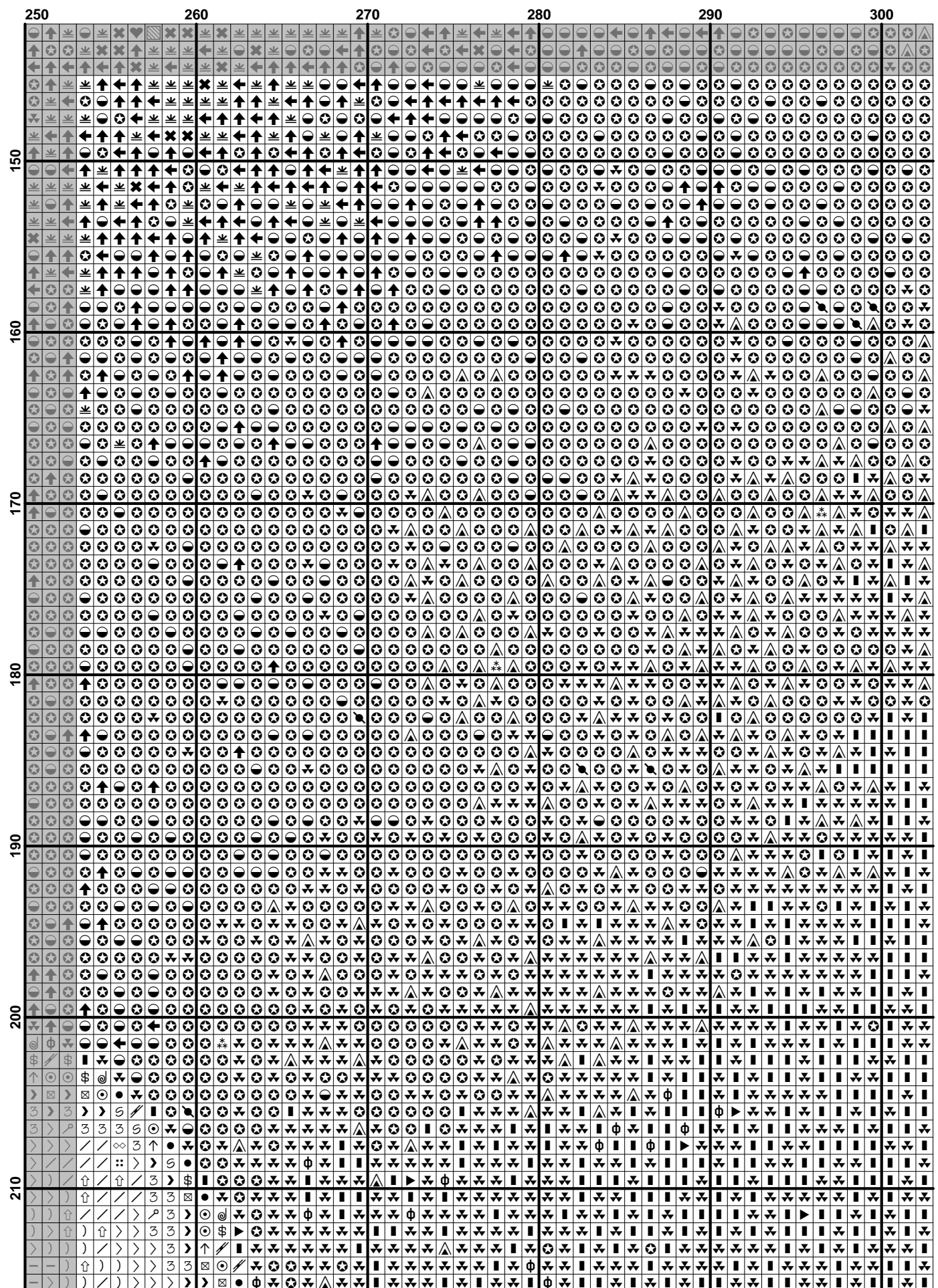




$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

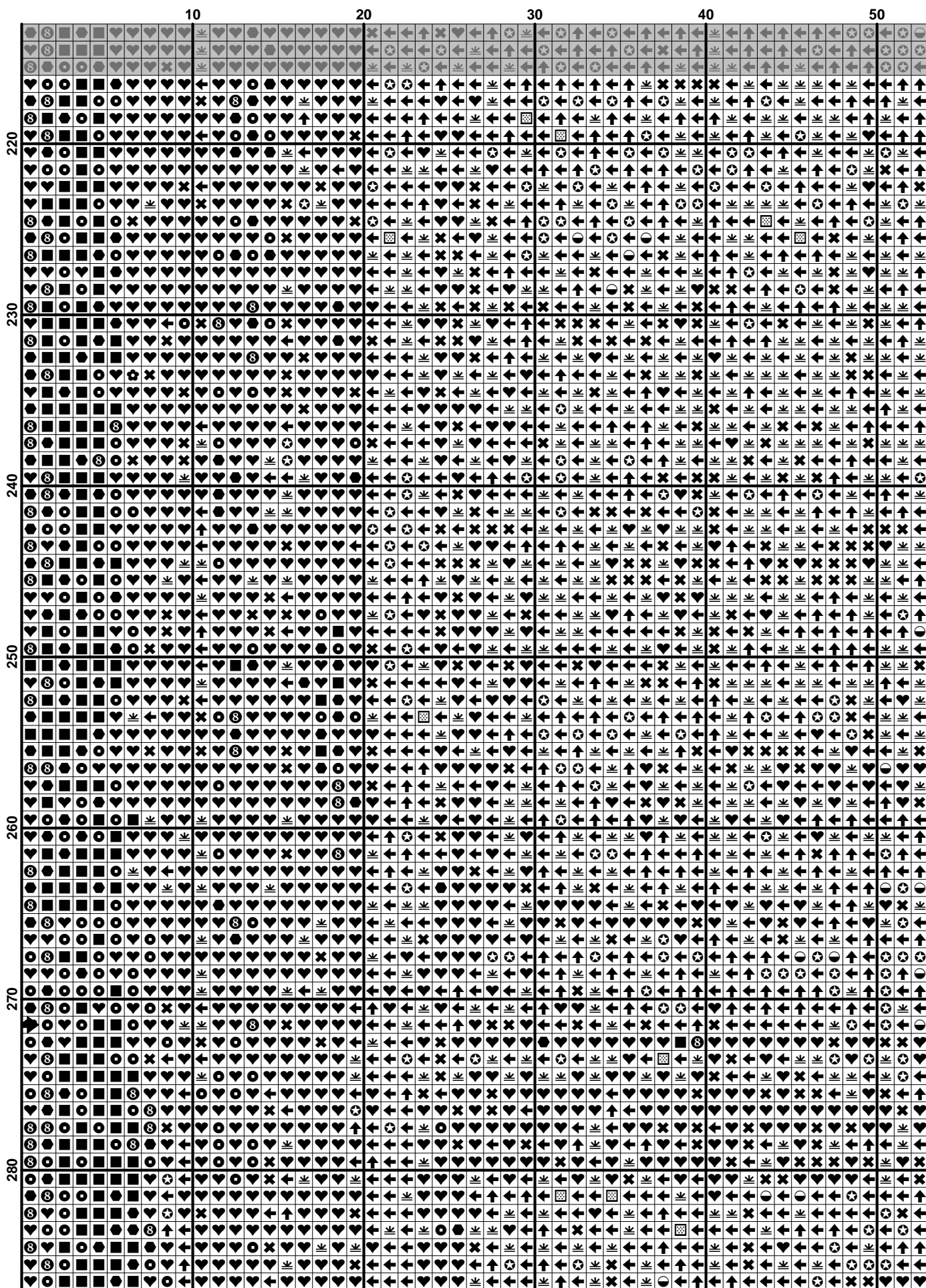
$$(28) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (29)$$

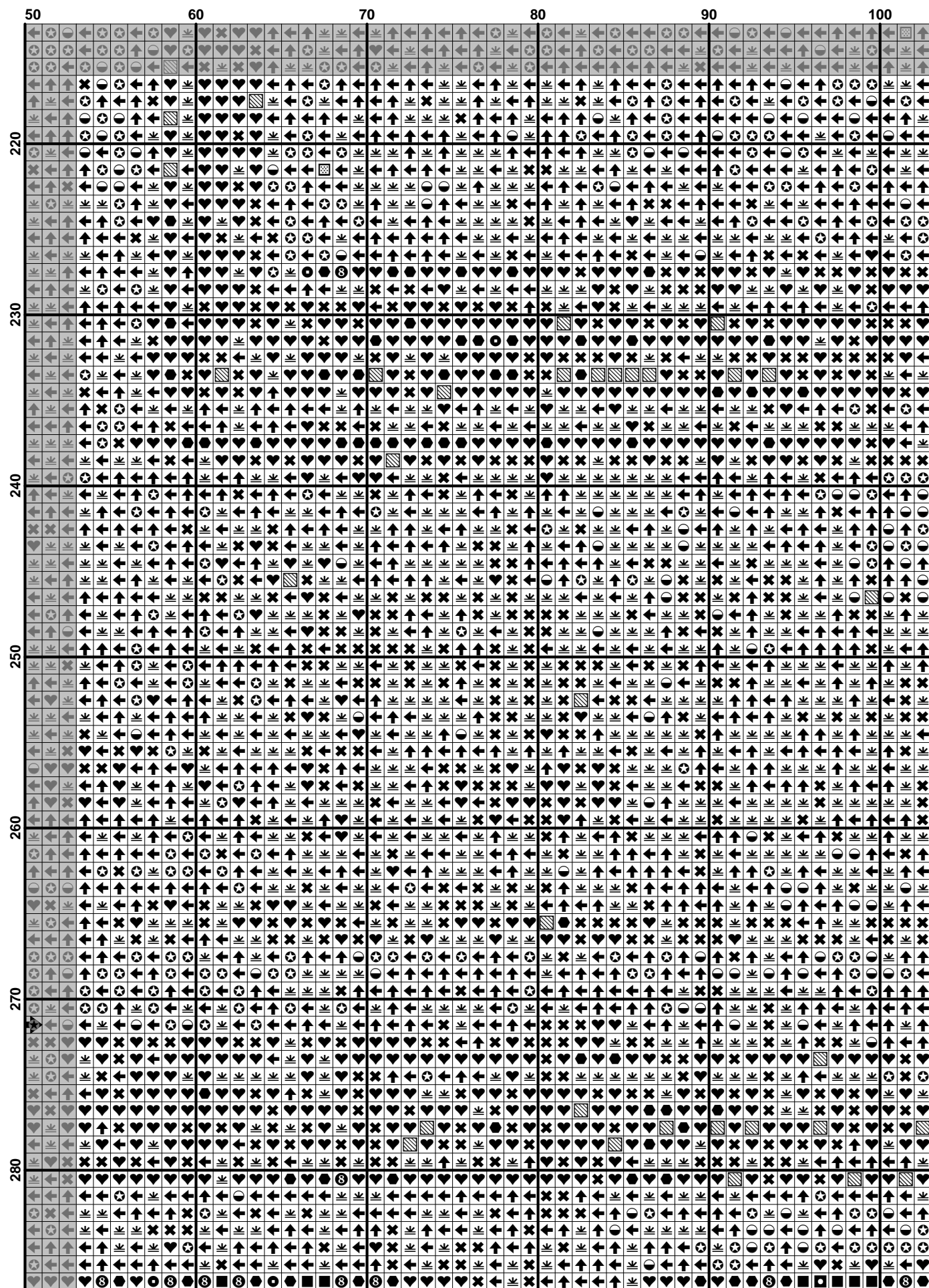
$$(29) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \cup \mathcal{L}(\mathcal{C}) \quad (30)$$









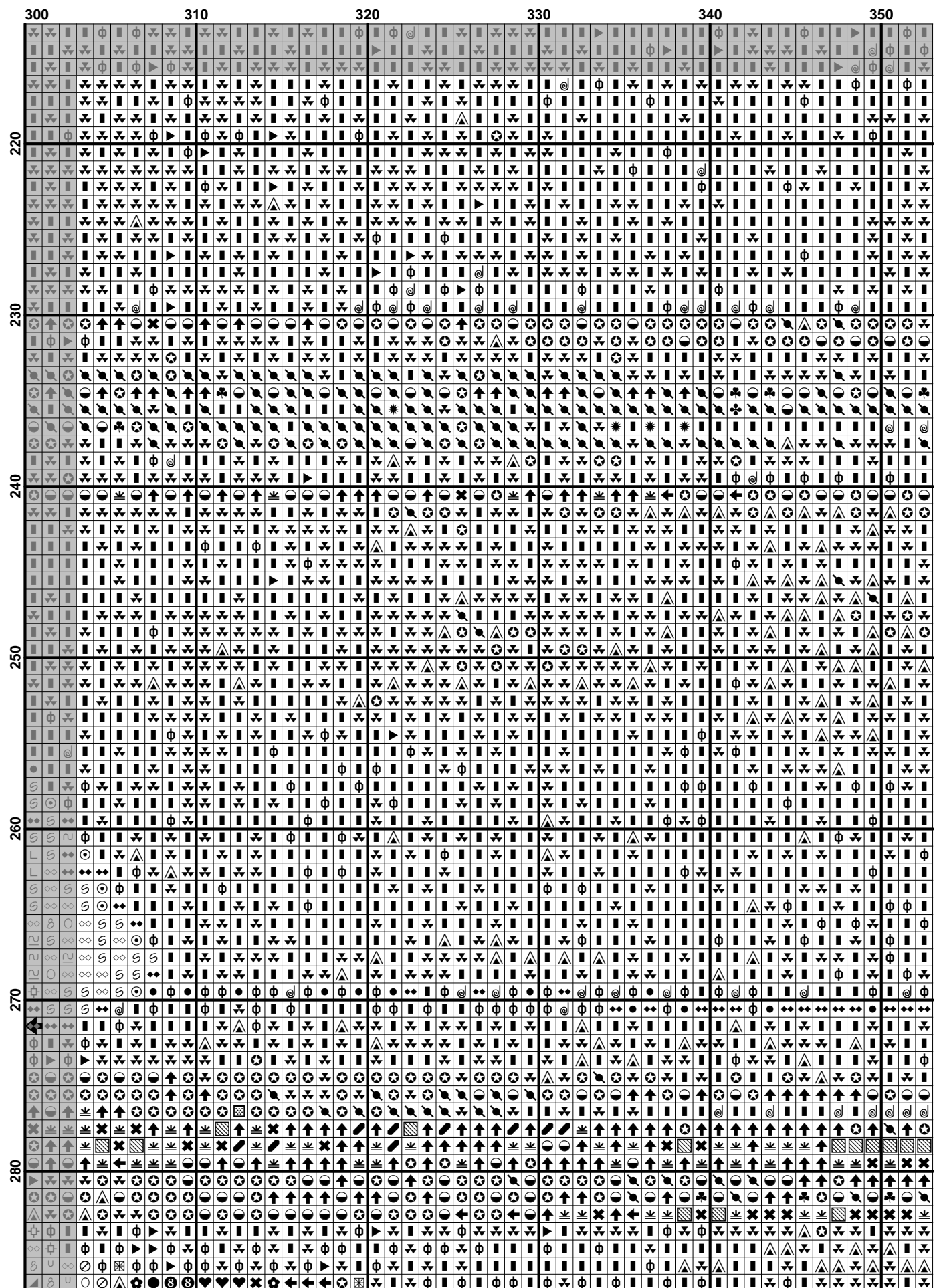


$$(35) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (36)$$

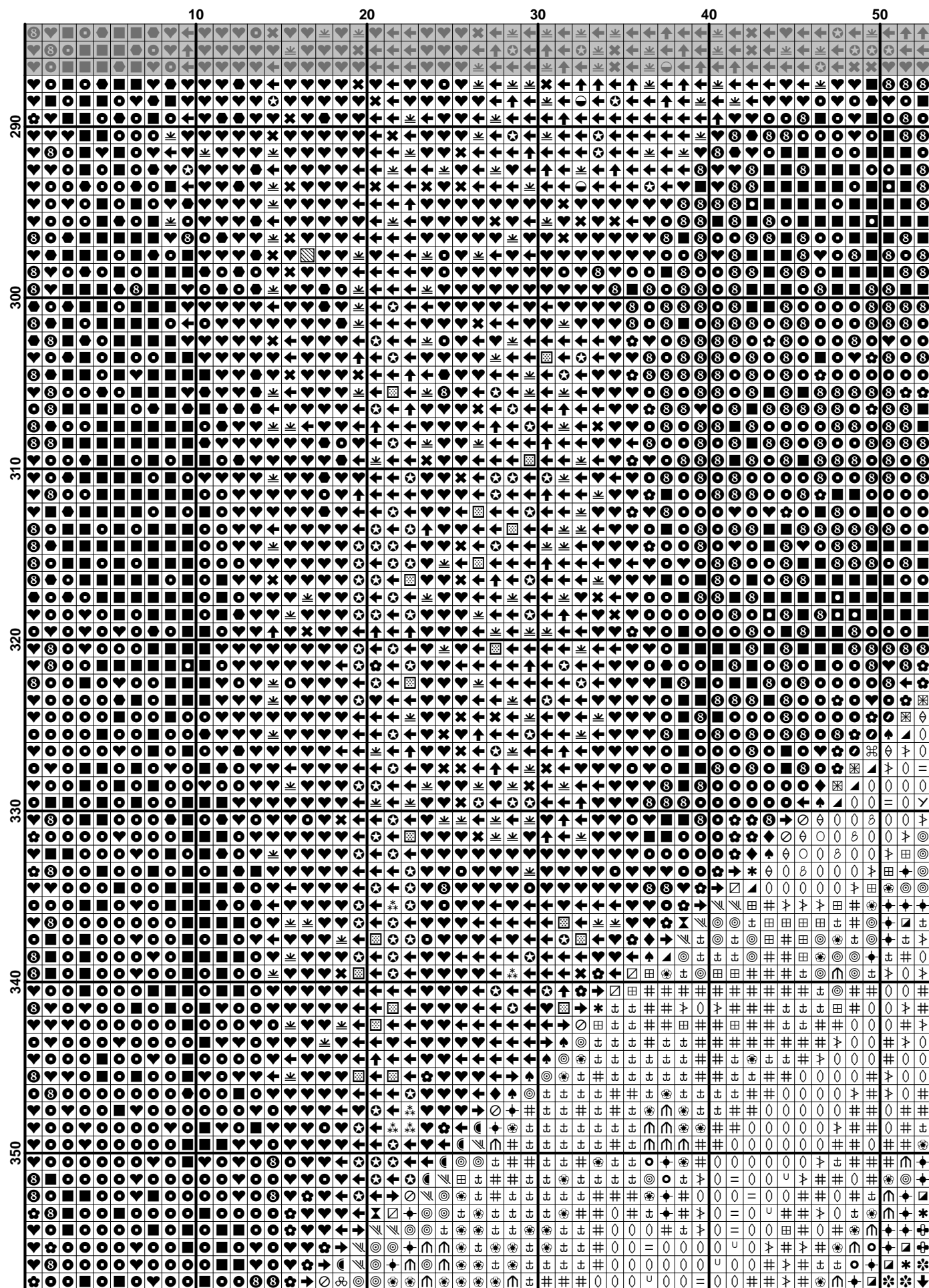
$$(36) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

[illegible]

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







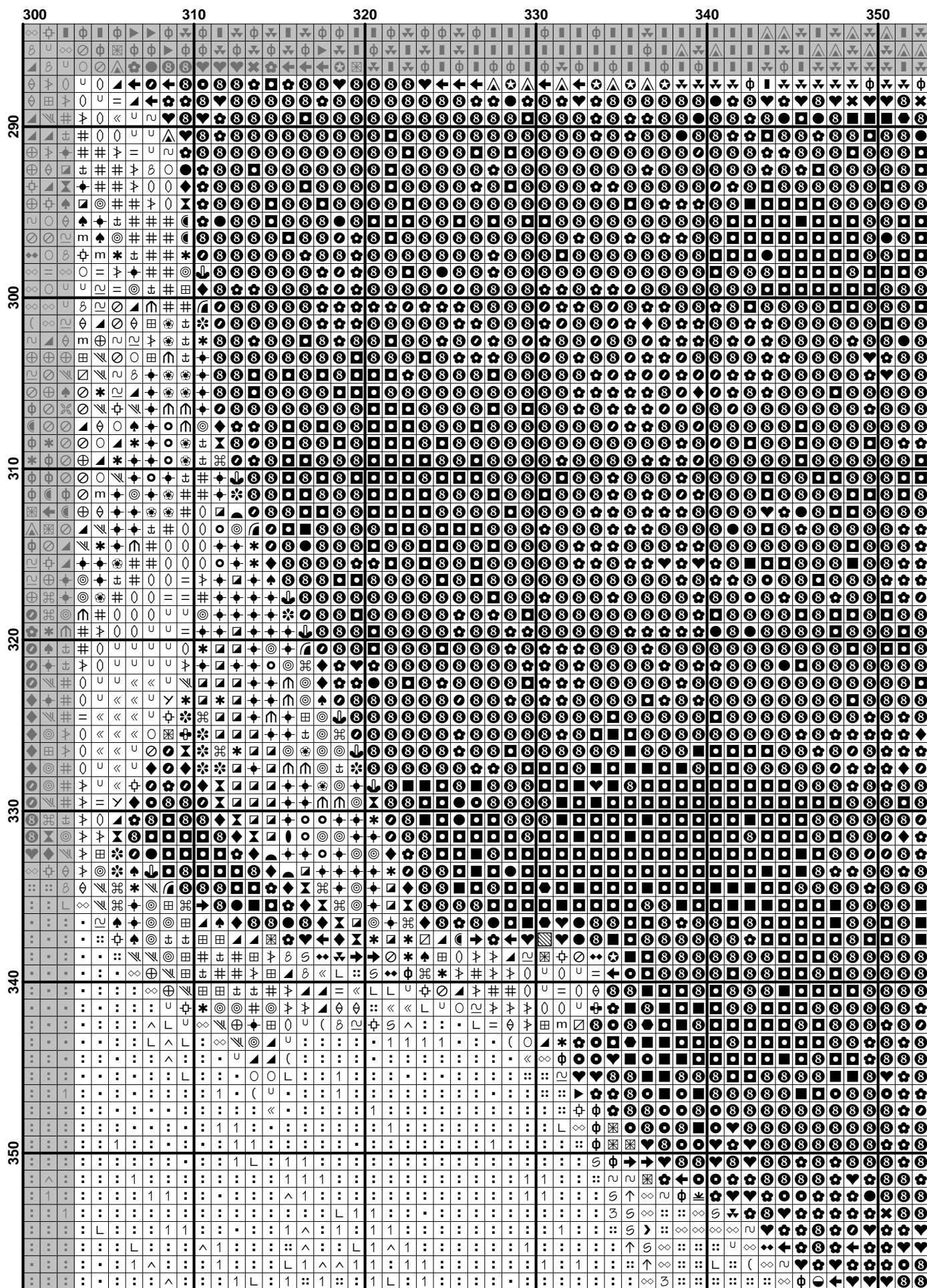
$$(42) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

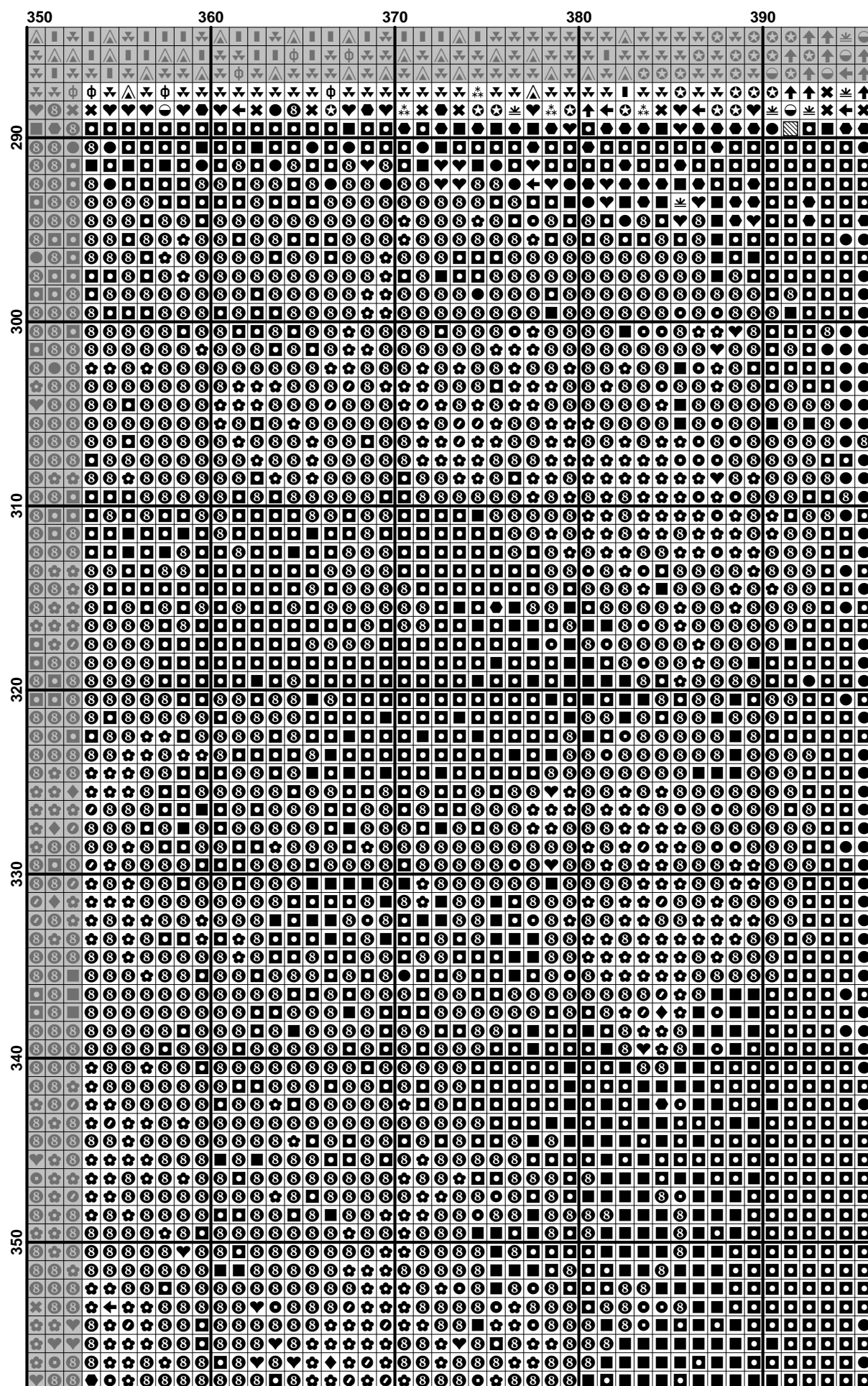
	100	110	120	130	140	150
290
300
310
320
330
340
350

	150	160	170	180	190	200
290
300
310
320
330
340
350

	200	210	220	230	240	250
290
300
310
320
330
340
350

	250	260	270	280	290	300
290	3	3	3	3	3	3
300	3	3	3	3	3	3
310	3	3	3	3	3	3
320	3	3	3	3	3	3
330	3	3	3	3	3	3
340	3	3	3	3	3	3
350	3	3	3	3	3	3





$$(49) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	50	60	70	80	90	100
360
370
380
390
400
410
420

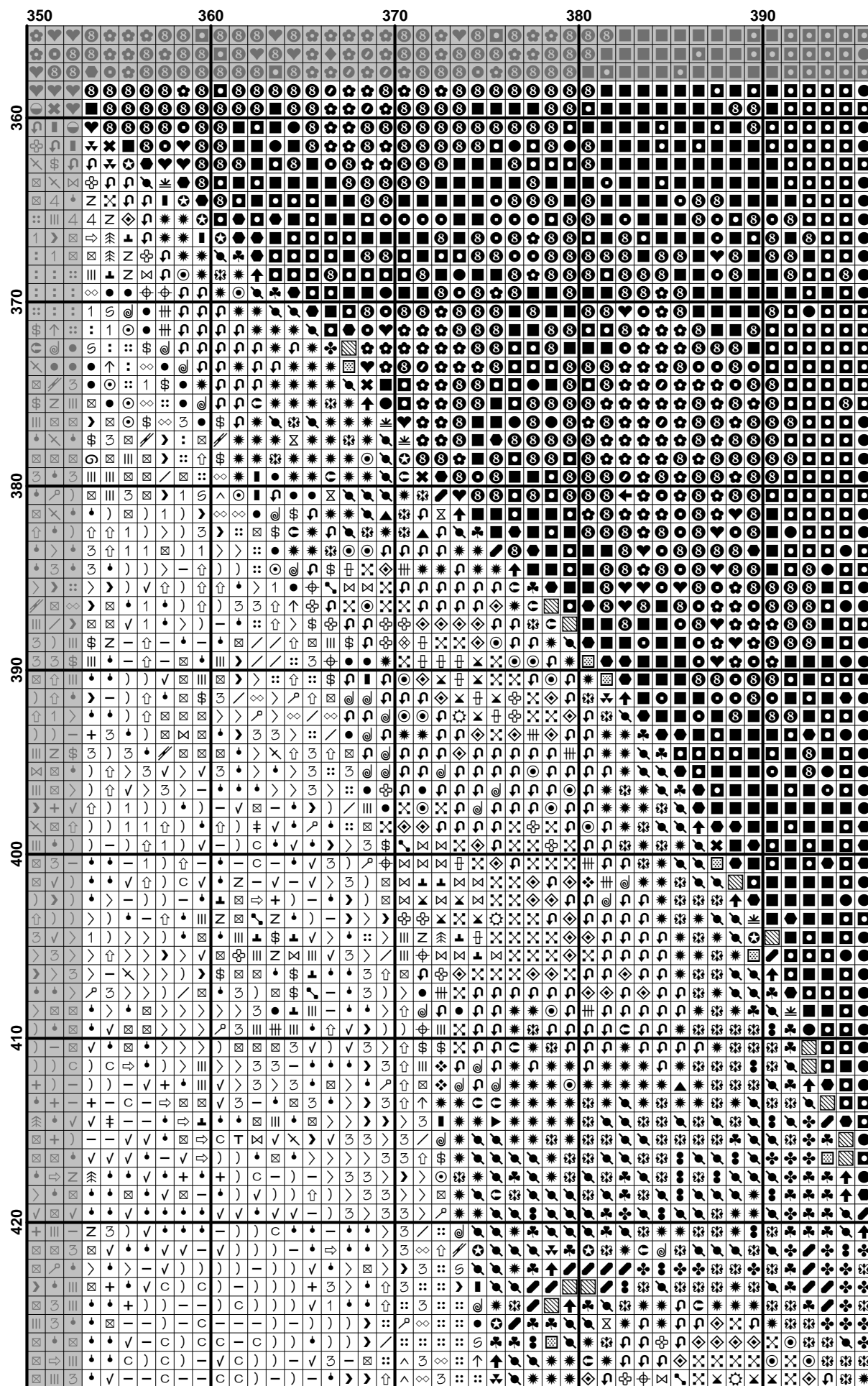
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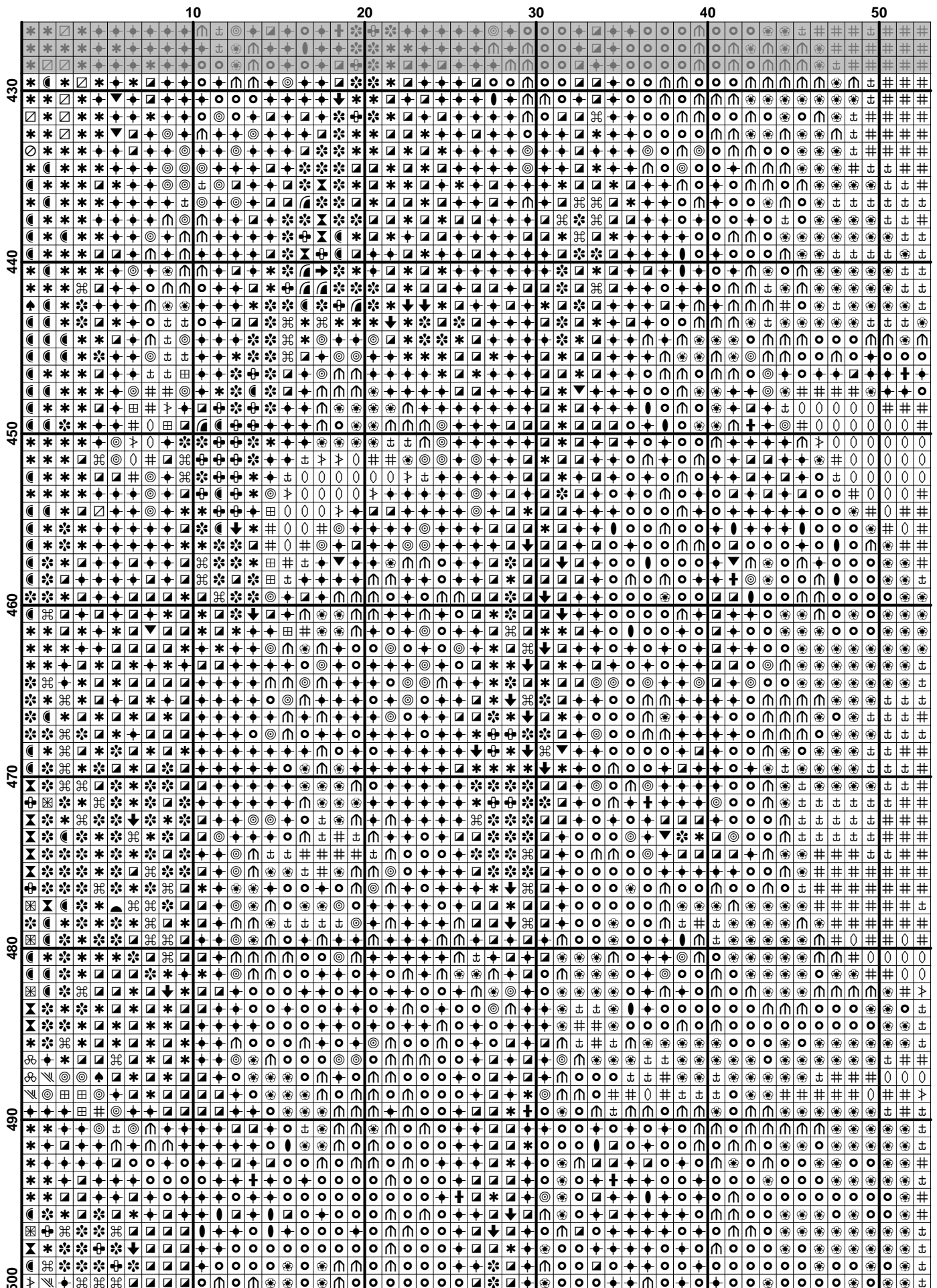
	150	160	170	180	190	200
360						
370						
380						
390						
400						
410						
420						

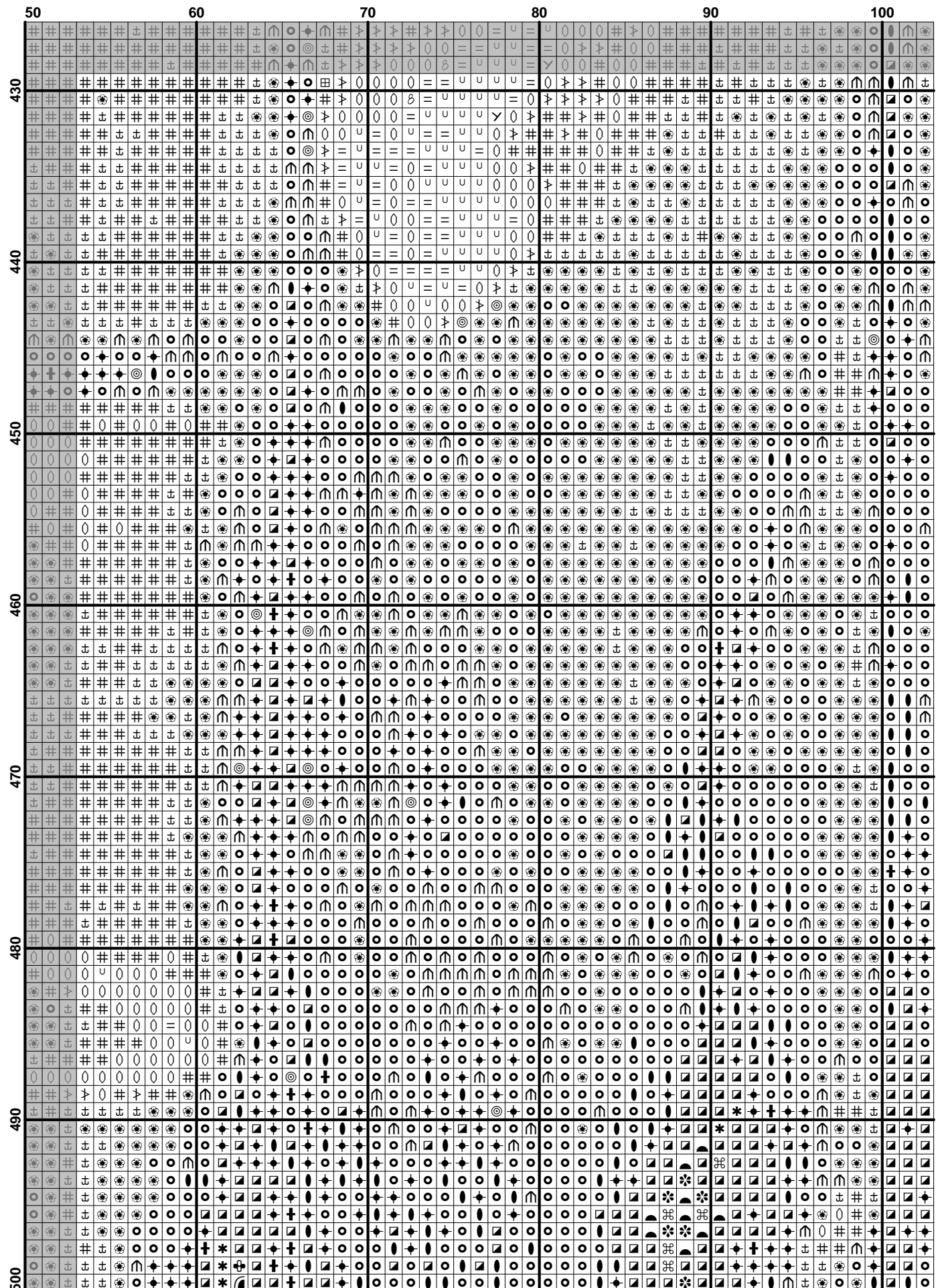
$$(53) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_t^\infty (t-s)^{\alpha-1} f(s) ds$$

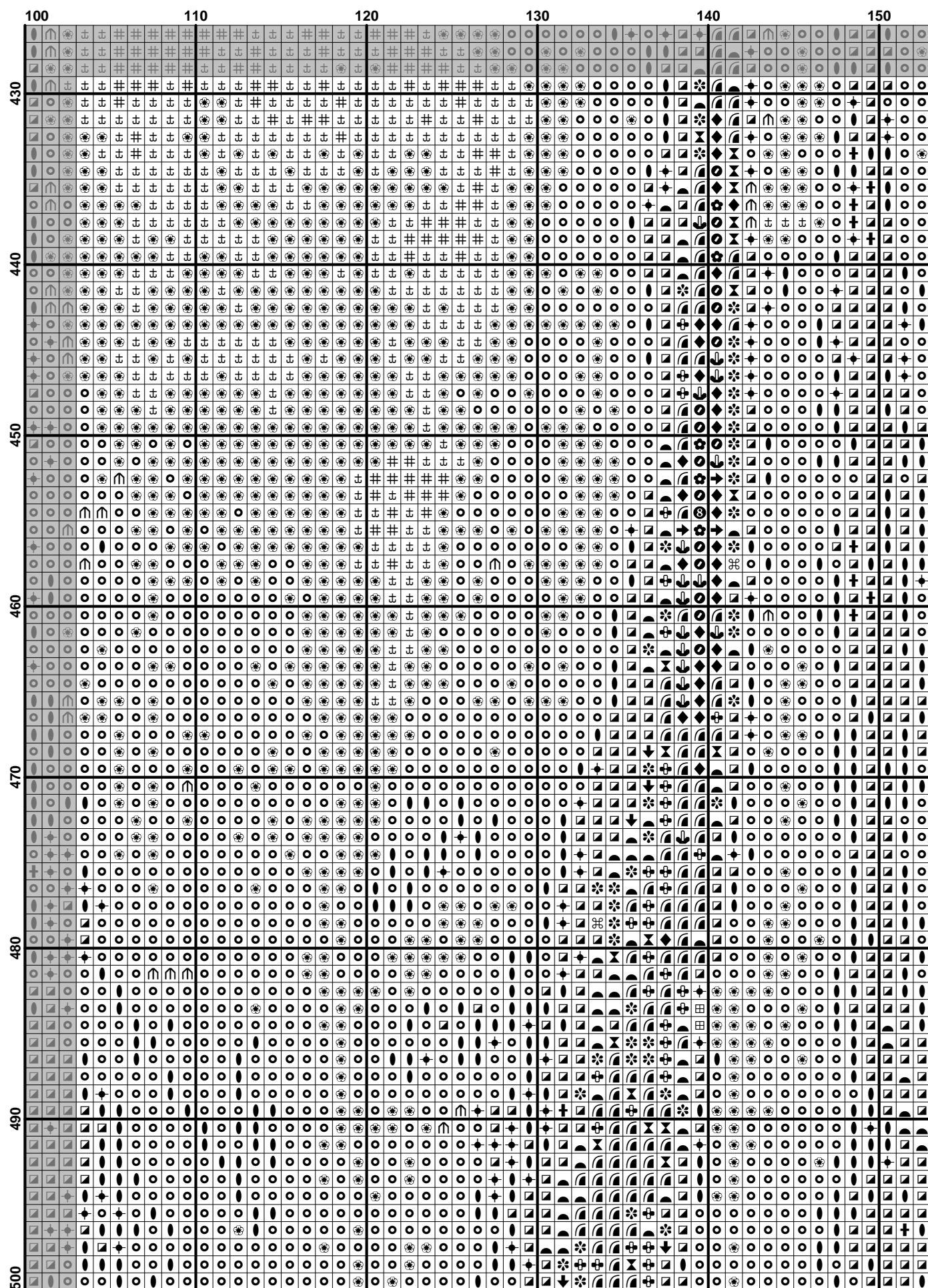
	250	260	270	280	290	300
360						
370						
380						
390						
400						
410						
420						

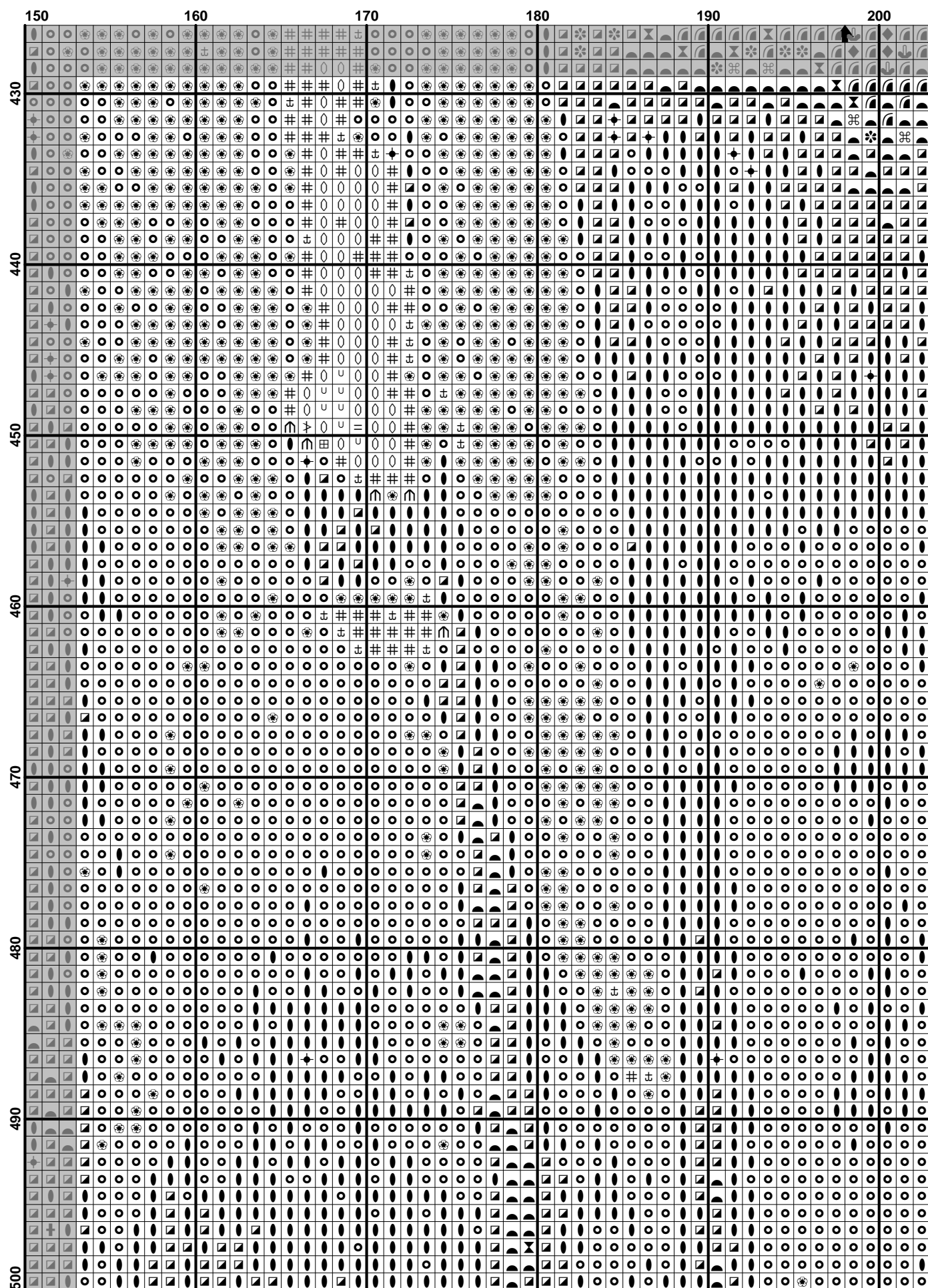
$$(55) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

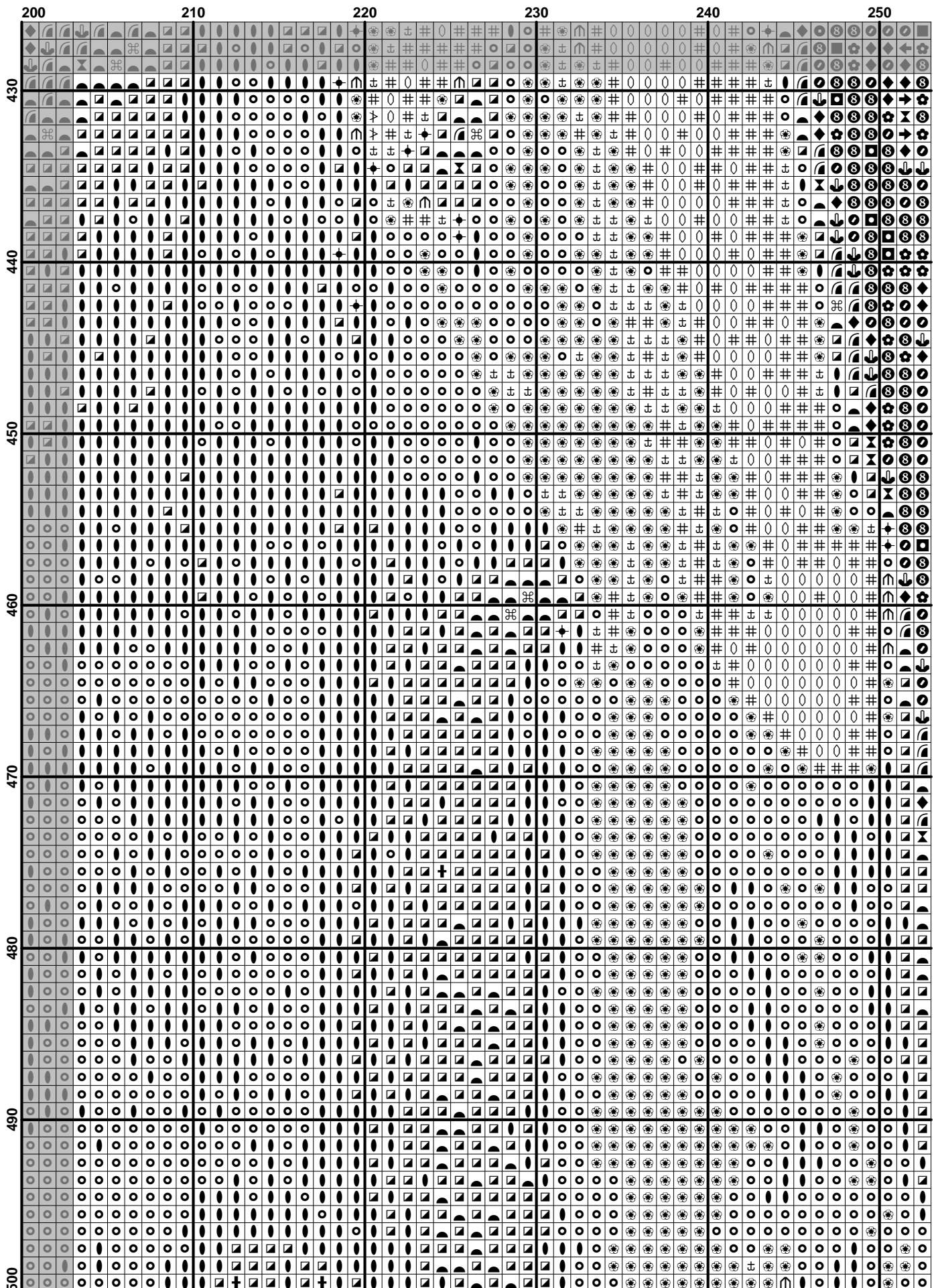


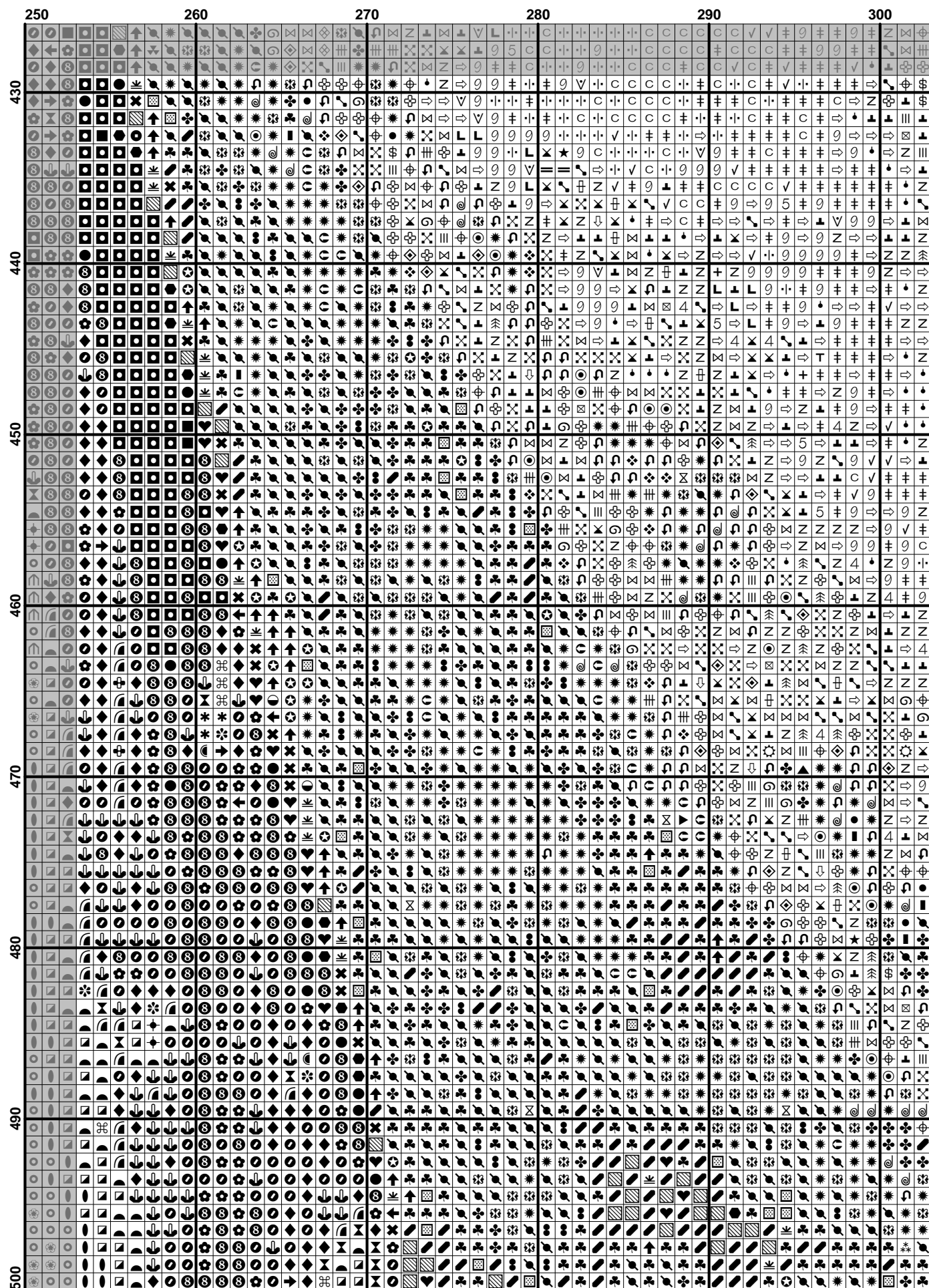




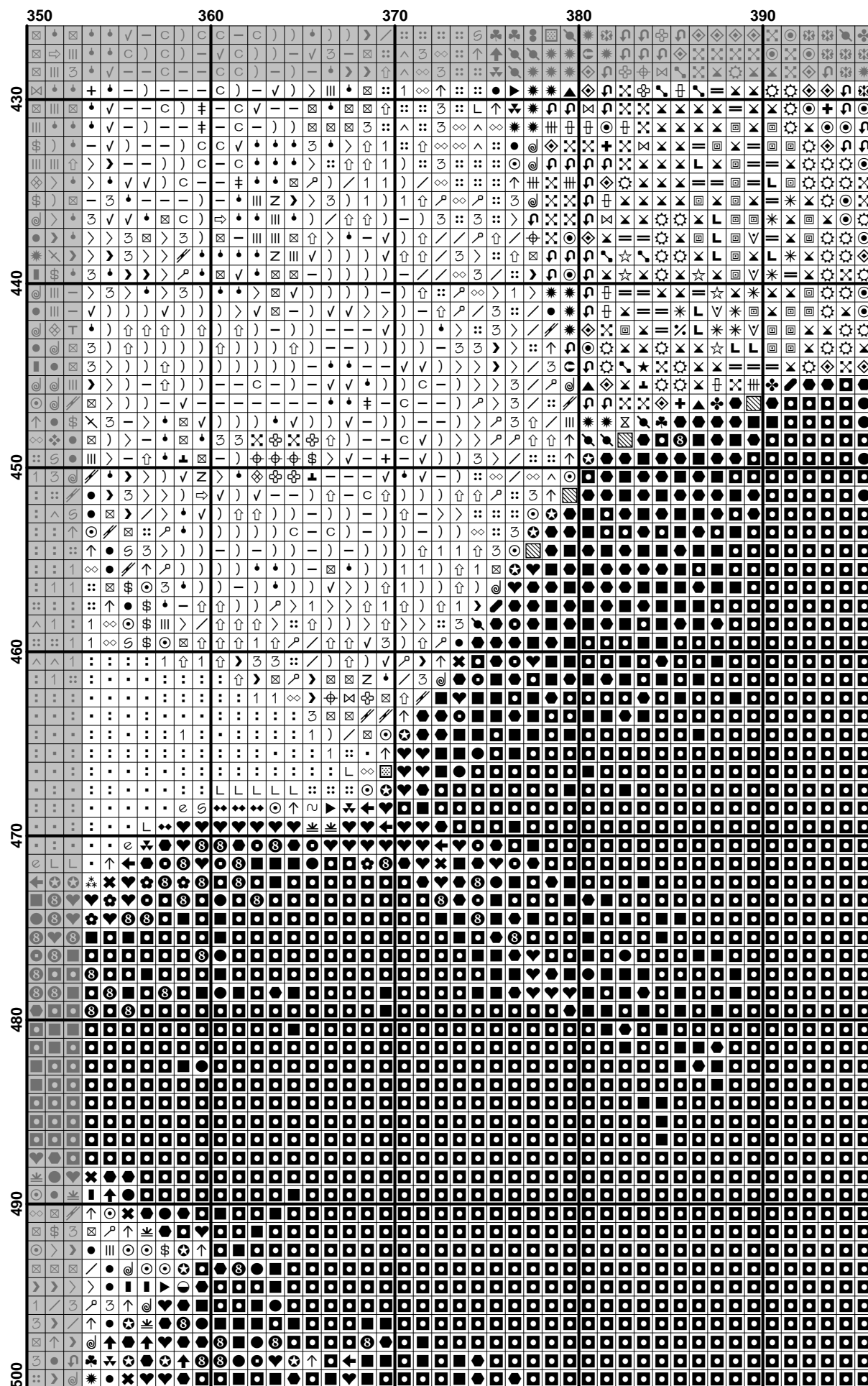








	300	310	320	330	340	350
430						
440						
450						
460						
470						
480						
490						
500						



[illegible]

