

611 The Little Knitter



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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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The Little Knitter

Stitch Count	
Horizontal:	300
Vertical:	441

Recommended Fabric Color
Antique White

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

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

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

	14				16				18			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	55	21.37	81	31.5	48	18.7	71	27.56	43	16.625	63	24.5
Including Margins:	71	28	97	38	64	25	87	34	59	23	79	31
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	77	29.91	113	44.1	64	24.93	94	36.75	32	12.46	47	18.37
Including Margins:	93	36	129	51	80	31	110	43	48	19	63	25
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	30	11.96	45	17.64	29	11.5	43	16.96	28	11.08	42	16.33
Including Margins:	46	18	61	24	45	18	59	23	44	18	58	23
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	27	10.68	40	15.75	25	9.97	37	14.7	24	9.34	35	13.78
Including Margins:	43	17	56	22	41	16	53	21	40	16	51	20

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
•	1	White 1
⊕	315	Antique Mauve-VY DK
□	318	Steel Gray-LT
+	353	Peach
⌘	371	Mustard
▣	413	Pewter Gray-DK
↑	415	Pearl Gray
⦶	420	Hazelnut Brown-DK
⦶	422	Hazelnut Brown-LT
♣	433	Brown-MD
⌘	434	Brown-LT
⌘	435	Brown-VY LT
↓	436	Tan
4	437	Tan-LT
↖	523	Fern Green-LT
⋈	524	Fern Green-VY LT
⌘	535	Ash Gray-VY LT
⌘	580	Moss Green-DK
⌘	581	Moss Green
⦶	610	Drab Brown-DK
⦶	611	Drab Brown
α	613	Drab Brown-VY LT
9	644	Beige Gray-MD
⌘	647	Beaver Gray-MD
*	680	Old Gold-DK
∇	729	Old Gold-MD
▲	730	Olive Green-VY DK
▣	731	Olive Green-DK
III	733	Olive Green-MD
⌘	738	Tan-VY LT
⌘	739	Tan-UL VY LT
1	746	Off White
u	747	Sky Blue-VY LT
▲	758	Terra Cotta-VY LT
/	762	Pearl Gray-VY LT
⦶	780	Topaz-UL VY DK
⦶	781	Topaz-VY DK
(819	Baby Pink-LT
√	822	Beige Gray-LT
⦶	831	Golden Olive-MD
∇	833	Golden Olive-LT
▣	838	Beige Brown-VY DK

⋈	844	Beaver Brown-UL DK
▼	869	Hazelnut Brown-VY DK
▲	920	Copper-MD
•	926	Gray Green-MD
//	927	Gray Green-LT
m	928	Gray Green-VY LT
♥	935	Avocado Green-DK
◐	937	Avocado Green-MD
●	938	Coffee Brown-UL DK
5	945	Tawny
—	948	Peach-VY LT
c	951	Tawny-LT
*	3011	Khaki Green-DK
x	3012	Khaki Green-MD
s	3013	Khaki Green-LT
⌘	3021	Brown Gray-VY DK
2	3024	Brown Gray-VY LT
⦶	3031	Mocha Brown-VY DK
#	3032	Mocha Brown-MD
◇	3045	Yellow Beige-DK
↓	3051	Green Gray-DK
⊕	3052	Green Gray-MD
⦶	3072	Beaver Gray-VY LT
⋈	3346	Hunter Green
⦶	3364	Pine Green
▣	3371	Black Brown
♣	3726	Antique Mauve-DK
⋈	3753	Antique Blue-UL VY LT
)	3756	Baby Blue-UL VY LT
↑	3776	Mahogany-LT
↑	3777	Terra Cotta-VY DK
L	3778	Terra Cotta-LT
→	3781	Mocha Brown-DK
⌘	3782	Mocha Brown-LT
⦶	3787	Brown Gray-DK
x	3820	Straw-DK
⌘	3826	Golden Brown
⇒	3828	Hazelnut Brown
⦶	3829	Old Gold-VY DK
⦶	3836	Grape-LT
=	3855	Autumn Gold-LT
○	3856	Mahogany-UL VY LT
■	3862	Mocha Beige-DK
:	3865	Winter White

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

Symbol	DMC1	Name1	DMC2	Name2
⊗	3799	Pewter Gray-VY DK	3371	Black Brown
★	926	Gray Green-MD	927	Gray Green-LT
::	948	Peach-VY LT	353	Peach
⊥	353	Peach	3824	Apricot-LT
>	3072	Beaver Gray-VY LT	948	Peach-VY LT
↖	435	Brown-VY LT	436	Tan
⊕	434	Brown-LT	420	Hazelnut Brown-DK
⌒	927	Gray Green-LT	414	Steel Gray-DK
L	3823	Yellow-UL Pale	951	Tawny-LT
←	300	Mahogany-VY DK	975	Golden Brown-DK
+	869	Hazelnut Brown-VY DK	732	Olive Green
⊕	3781	Mocha Brown-DK	610	Drab Brown-DK
⌒	935	Avocado Green-DK	937	Avocado Green-MD
↖	920	Copper-MD	975	Golden Brown-DK
e	3855	Autumn Gold-LT	951	Tawny-LT
0	738	Tan-VY LT	3856	Mahogany-UL VY LT
⊥	3045	Yellow Beige-DK	437	Tan-LT
⊕	951	Tawny-LT	945	Tawny
○	758	Terra Cotta-VY LT	3856	Mahogany-UL VY LT
^	948	Peach-VY LT	746	Off White
⊕	420	Hazelnut Brown-DK	780	Topaz-UL VY DK
⊗	781	Topaz-VY DK	420	Hazelnut Brown-DK
⊕	3826	Golden Brown	780	Topaz-UL VY DK
♦	3826	Golden Brown	782	Topaz-DK
⊕	435	Brown-VY LT	680	Old Gold-DK
⊕	420	Hazelnut Brown-DK	3828	Hazelnut Brown
↓	3031	Mocha Brown-VY DK	3781	Mocha Brown-DK
■	938	Coffee Brown-UL DK	3371	Black Brown
✕	3799	Pewter Gray-VY DK	3781	Mocha Brown-DK
⊕	920	Copper-MD	3776	Mahogany-LT
⊕	3726	Antique Mauve-DK	435	Brown-VY LT
⊕	3828	Hazelnut Brown	3778	Terra Cotta-LT
⊕	3778	Terra Cotta-LT	738	Tan-VY LT
⊕	3787	Brown Gray-DK	3782	Mocha Brown-LT
⊕	300	Mahogany-VY DK	433	Brown-MD
⊕	3776	Mahogany-LT	436	Tan
⊕	436	Tan	437	Tan-LT
Z	436	Tan	833	Golden Olive-LT
H	680	Old Gold-DK	729	Old Gold-MD
⊕	3781	Mocha Brown-DK	3787	Brown Gray-DK
☆	524	Fern Green-VY LT	644	Beige Gray-MD
◆	300	Mahogany-VY DK	3777	Terra Cotta-VY DK
⊕	300	Mahogany-VY DK	938	Coffee Brown-UL DK
⊕	3052	Green Gray-MD	645	Beaver Gray-VY DK
⊕	3013	Khaki Green-LT	613	Drab Brown-VY LT
⊕	829	Golden Olive-VY DK	869	Hazelnut Brown-VY DK
⊕	3856	Mahogany-UL VY LT	422	Hazelnut Brown-LT
Y	3855	Autumn Gold-LT	3856	Mahogany-UL VY LT
⊕	3013	Khaki Green-LT	3045	Yellow Beige-DK
⊕	3013	Khaki Green-LT	422	Hazelnut Brown-LT
\$	611	Drab Brown	3032	Mocha Brown-MD
▲	869	Hazelnut Brown-VY DK	780	Topaz-UL VY DK
⌒	781	Topaz-VY DK	732	Olive Green

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✚	829	Golden Olive-VY DK	433	Brown-MD
●	838	Beige Brown-VY DK	938	Coffee Brown-UL DK
X	523	Fern Green-LT	3032	Mocha Brown-MD
田	503	Blue Green-MD	3052	Green Gray-MD
⬆	503	Blue Green-MD	927	Gray Green-LT
«	1	White 1	3865	Winter White
=	581	Moss Green	3829	Old Gold-VY DK
✚	3726	Antique Mauve-DK	315	Antique Mauve-VY DK
*	580	Moss Green-DK	731	Olive Green-DK
β	3855	Autumn Gold-LT	945	Tawny
/	581	Moss Green	733	Olive Green-MD
⌘	3726	Antique Mauve-DK	3778	Terra Cotta-LT
›	415	Pearl Gray	3743	Antique Violet-VY LT
⌘	611	Drab Brown	3364	Pine Green
¼	733	Olive Green-MD	3364	Pine Green
⦿	3799	Pewter Gray-VY DK	935	Avocado Green-DK
3	613	Drab Brown-VY LT	739	Tan-UL VY LT
~	747	Sky Blue-VY LT	3865	Winter White
□	415	Pearl Gray	3024	Brown Gray-VY LT
⚙	645	Beaver Gray-VY DK	926	Gray Green-MD
⚙	581	Moss Green	731	Olive Green-DK
○	3011	Khaki Green-DK	611	Drab Brown
◀	413	Pewter Gray-DK	3799	Pewter Gray-VY DK
▶	3787	Brown Gray-DK	3346	Hunter Green
▣	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
	928	Gray Green-VY LT	318	Steel Gray-LT
⚙	413	Pewter Gray-DK	926	Gray Green-MD
⌘	3051	Green Gray-DK	844	Beaver Brown-UL 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	3122	1229	2973	1170	2676	1053
300	Mahogany-VY DK	140	55	133	52	120	47
315	Antique Mauve-VY DK	11	4	10	3	9	3
318	Steel Gray-LT	373	146	355	139	319	125
353	Peach	47	18	45	17	41	16
371	Mustard	303	119	288	113	259	101
413	Pewter Gray-DK	134	52	128	50	115	45
414	Steel Gray-DK	133	52	126	49	114	44
415	Pearl Gray	148	58	141	55	127	50
420	Hazelnut Brown-DK	233	91	222	87	200	78
422	Hazelnut Brown-LT	231	90	220	86	198	77
433	Brown-MD	185	72	176	69	159	62
434	Brown-LT	67	26	64	25	58	22
435	Brown-VY LT	68	26	65	25	58	22
436	Tan	103	40	99	38	89	35
437	Tan-LT	128	50	122	48	110	43
503	Blue Green-MD	186	73	177	69	160	62
523	Fern Green-LT	567	223	540	212	486	191
524	Fern Green-VY LT	685	269	653	257	587	231
535	Ash Gray-VY LT	271	106	258	101	233	91
580	Moss Green-DK	323	127	307	120	276	108
581	Moss Green	394	155	375	147	338	133
610	Drab Brown-DK	308	121	293	115	264	103
611	Drab Brown	1077	424	1026	403	923	363
613	Drab Brown-VY LT	1393	548	1327	522	1194	470
644	Beige Gray-MD	652	256	621	244	559	220
645	Beaver Gray-VY DK	321	126	306	120	275	108
647	Beaver Gray-MD	409	161	390	153	351	138
680	Old Gold-DK	85	33	81	31	73	28
729	Old Gold-MD	53	20	51	20	46	18
730	Olive Green-VY DK	447	175	426	167	383	150
731	Olive Green-DK	298	117	284	111	255	100
732	Olive Green	89	35	85	33	76	29
733	Olive Green-MD	408	160	389	153	350	137
738	Tan-VY LT	303	119	289	113	260	102
739	Tan-UL VY LT	574	225	547	215	492	193
746	Off White	135	53	128	50	115	45
747	Sky Blue-VY LT	229	90	218	85	196	77
758	Terra Cotta-VY LT	10	3	10	3	9	3
762	Pearl Gray-VY LT	1064	418	1014	399	912	359
780	Topaz-UL VY DK	127	50	121	47	109	42
781	Topaz-VY DK	71	27	68	26	61	24
782	Topaz-DK	7	2	7	2	6	2
819	Baby Pink-LT	222	87	212	83	190	74
822	Beige Gray-LT	362	142	344	135	310	122
829	Golden Olive-VY DK	217	85	207	81	186	73
831	Golden Olive-MD	95	37	91	35	82	32
833	Golden Olive-LT	48	18	46	18	41	16
838	Beige Brown-VY DK	54	21	51	20	46	18
844	Beaver Brown-UL DK	348	137	332	130	298	117
869	Hazelnut Brown-VY DK	369	145	351	138	316	124
920	Copper-MD	22	8	21	8	18	7
926	Gray Green-MD	596	234	568	223	511	201

927	Gray Green-LT	1004	395	957	376	861	338
928	Gray Green-VY LT	327	128	312	122	280	110
935	Avocado Green-DK	928	365	884	348	795	312
937	Avocado Green-MD	423	166	403	158	363	142
938	Coffee Brown-UL DK	668	262	637	250	573	225
945	Tawny	79	31	75	29	68	26
948	Peach-VY LT	287	112	273	107	246	96
951	Tawny-LT	209	82	199	78	179	70
975	Golden Brown-DK	28	11	26	10	24	9
3011	Khaki Green-DK	804	316	765	301	689	271
3012	Khaki Green-MD	489	192	466	183	419	164
3013	Khaki Green-LT	1025	403	976	384	878	345
3021	Brown Gray-VY DK	226	88	215	84	194	76
3024	Brown Gray-VY LT	646	254	615	242	553	217
3031	Mocha Brown-VY DK	772	303	735	289	662	260
3032	Mocha Brown-MD	677	266	644	253	580	228
3045	Yellow Beige-DK	234	92	223	87	201	79
3051	Green Gray-DK	554	218	527	207	475	187
3052	Green Gray-MD	397	156	378	148	340	133
3072	Beaver Gray-VY LT	747	294	711	279	640	251
3346	Hunter Green	149	58	142	55	127	50
3364	Pine Green	511	201	487	191	438	172
3371	Black Brown	1919	755	1828	719	1645	647
3726	Antique Mauve-DK	27	10	25	9	23	9
3743	Antique Violet-VY LT	14	5	13	5	12	4
3753	Antique Blue-UL VY LT	62	24	59	23	53	20
3756	Baby Blue-UL VY LT	763	300	727	286	654	257
3776	Mahogany-LT	29	11	27	10	24	9
3777	Terra Cotta-VY DK	23	9	22	8	20	7
3778	Terra Cotta-LT	32	12	31	12	28	11
3781	Mocha Brown-DK	919	361	875	344	788	310
3782	Mocha Brown-LT	384	151	365	143	329	129
3787	Brown Gray-DK	309	121	294	115	264	103
3799	Pewter Gray-VY DK	1067	420	1016	400	914	359
3820	Straw-DK	9	3	8	3	7	2
3823	Yellow-UL Pale	125	49	119	46	107	42
3824	Apricot-LT	11	4	11	4	10	3
3826	Golden Brown	40	15	38	14	34	13
3828	Hazelnut Brown	112	44	106	41	96	37
3829	Old Gold-VY DK	121	47	115	45	103	40
3836	Grape-LT	4	1	4	1	4	1
3855	Autumn Gold-LT	60	23	58	22	52	20
3856	Mahogany-UL VY LT	116	45	111	43	100	39
3862	Mocha Beige-DK	66	25	62	24	56	22
3865	Winter White	1646	648	1568	617	1411	555

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	4817	1895	4014	1580	2007	790
300	Mahogany-VY DK	216	85	180	71	90	35
315	Antique Mauve-VY DK	16	5	14	5	7	2
318	Steel Gray-LT	574	225	479	188	239	94
353	Peach	74	29	62	24	31	12
371	Mustard	466	182	389	152	194	76
413	Pewter Gray-DK	207	81	173	68	86	34

414	Steel Gray-DK	205	79	171	66	86	33
415	Pearl Gray	229	90	191	75	95	38
420	Hazelnut Brown-DK	360	140	300	117	150	59
422	Hazelnut Brown-LT	356	139	297	116	149	58
433	Brown-MD	286	112	239	93	119	47
434	Brown-LT	104	40	87	33	44	17
435	Brown-VY LT	104	40	87	33	44	17
436	Tan	160	63	134	53	67	26
437	Tan-LT	198	77	165	65	83	32
503	Blue Green-MD	288	112	240	93	120	47
523	Fern Green-LT	875	344	729	287	365	143
524	Fern Green-VY LT	1057	416	881	347	440	173
535	Ash Gray-VY LT	419	164	350	137	175	68
580	Moss Green-DK	497	194	414	162	207	81
581	Moss Green	608	239	507	200	254	100
610	Drab Brown-DK	475	185	396	155	198	77
611	Drab Brown	1661	653	1385	545	692	272
613	Drab Brown-VY LT	2149	846	1791	705	896	353
644	Beige Gray-MD	1006	396	839	330	419	165
645	Beaver Gray-VY DK	495	194	413	162	206	81
647	Beaver Gray-MD	632	248	527	207	263	104
680	Old Gold-DK	131	50	110	42	55	21
729	Old Gold-MD	83	32	69	27	35	14
730	Olive Green-VY DK	689	270	575	225	287	113
731	Olive Green-DK	459	180	383	150	191	75
732	Olive Green	137	52	114	44	57	22
733	Olive Green-MD	630	247	525	206	263	103
738	Tan-VY LT	468	184	390	153	195	77
739	Tan-UL VY LT	886	347	738	290	369	145
746	Off White	207	81	173	68	86	34
747	Sky Blue-VY LT	353	139	294	116	147	58
758	Terra Cotta-VY LT	16	5	14	5	7	2
762	Pearl Gray-VY LT	1642	646	1368	539	684	269
780	Topaz-UL VY DK	196	76	164	63	82	32
781	Topaz-VY DK	110	43	92	36	46	18
782	Topaz-DK	11	4	9	3	5	2
819	Baby Pink-LT	342	133	285	111	143	56
822	Beige Gray-LT	558	220	465	183	233	92
829	Golden Olive-VY DK	335	131	279	110	140	55
831	Golden Olive-MD	148	58	123	48	62	24
833	Golden Olive-LT	74	29	62	24	31	12
838	Beige Brown-VY DK	83	32	69	27	35	14
844	Beaver Brown-UL DK	536	211	447	176	224	88
869	Hazelnut Brown-VY DK	569	223	474	186	237	93
920	Copper-MD	32	13	27	11	14	5
926	Gray Green-MD	920	362	767	302	383	151
927	Gray Green-LT	1550	608	1292	507	646	254
928	Gray Green-VY LT	504	198	420	165	210	83
935	Avocado Green-DK	1431	562	1193	468	596	234
937	Avocado Green-MD	653	256	545	213	272	107
938	Coffee Brown-UL DK	1031	405	860	338	430	169
945	Tawny	122	47	102	39	51	20
948	Peach-VY LT	443	173	369	144	185	72
951	Tawny-LT	322	126	269	105	134	53
975	Golden Brown-DK	43	16	36	14	18	7
3011	Khaki Green-DK	1240	488	1034	407	517	203
3012	Khaki Green-MD	754	295	629	246	314	123
3013	Khaki Green-LT	1580	621	1317	518	659	259
3021	Brown Gray-VY DK	349	137	291	114	146	57

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3024	Brown Gray-VY LT	995	391	830	326	415	163
3031	Mocha Brown-VY DK	1192	468	993	390	497	195
3032	Mocha Brown-MD	1044	410	870	342	435	171
3045	Yellow Beige-DK	362	142	302	119	151	59
3051	Green Gray-DK	855	337	713	281	356	140
3052	Green Gray-MD	612	239	510	200	255	100
3072	Beaver Gray-VY LT	1152	452	960	377	480	188
3346	Hunter Green	229	90	191	75	95	38
3364	Pine Green	788	310	657	258	329	129
3371	Black Brown	2961	1165	2468	971	1234	485
3726	Antique Mauve-DK	41	16	35	14	17	7
3743	Antique Violet-VY LT	22	7	18	6	9	3
3753	Antique Blue-UL VY LT	95	36	80	30	40	15
3756	Baby Blue-UL VY LT	1177	463	981	386	491	193
3776	Mahogany-LT	43	16	36	14	18	7
3777	Terra Cotta-VY DK	36	13	30	11	15	5
3778	Terra Cotta-LT	50	20	42	17	21	8
3781	Mocha Brown-DK	1418	558	1182	465	591	233
3782	Mocha Brown-LT	592	232	494	194	247	97
3787	Brown Gray-DK	475	185	396	155	198	77
3799	Pewter Gray-VY DK	1645	646	1371	539	686	269
3820	Straw-DK	13	4	11	3	5	2
3823	Yellow-UL Pale	193	76	161	63	80	32
3824	Apricot-LT	18	5	15	5	8	2
3826	Golden Brown	61	23	51	20	26	10
3828	Hazelnut Brown	173	67	144	56	72	28
3829	Old Gold-VY DK	185	72	155	60	77	30
3836	Grape-LT	7	2	6	2	3	1
3855	Autumn Gold-LT	94	36	78	30	39	15
3856	Mahogany-UL VY LT	180	70	150	59	75	29
3862	Mocha Beige-DK	101	40	84	33	42	17
3865	Winter White	2540	999	2117	833	1058	416

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	1927	758	1853	729	1784	702
300	Mahogany-VY DK	86	34	83	33	80	31
315	Antique Mauve-VY DK	6	2	6	2	6	2
318	Steel Gray-LT	230	90	221	87	213	83
353	Peach	30	12	28	11	27	11
371	Mustard	186	73	179	70	173	67
413	Pewter Gray-DK	83	32	80	31	77	30
414	Steel Gray-DK	82	32	79	30	76	29
415	Pearl Gray	91	36	88	35	85	33
420	Hazelnut Brown-DK	144	56	138	54	133	52
422	Hazelnut Brown-LT	143	55	137	53	132	51
433	Brown-MD	114	45	110	43	106	41
434	Brown-LT	42	16	40	15	39	15
435	Brown-VY LT	42	16	40	15	39	15
436	Tan	64	25	62	24	59	23
437	Tan-LT	79	31	76	30	73	29
503	Blue Green-MD	115	45	111	43	107	41
523	Fern Green-LT	350	138	336	132	324	127
524	Fern Green-VY LT	423	166	406	160	391	154
535	Ash Gray-VY LT	168	66	161	63	155	61

580	Moss Green-DK	199	78	191	75	184	72
581	Moss Green	243	96	234	92	225	89
610	Drab Brown-DK	190	74	183	71	176	69
611	Drab Brown	665	261	639	251	615	242
613	Drab Brown-VY LT	860	338	827	325	796	313
644	Beige Gray-MD	402	158	387	152	373	147
645	Beaver Gray-VY DK	198	78	190	75	183	72
647	Beaver Gray-MD	253	99	243	96	234	92
680	Old Gold-DK	53	20	51	19	49	19
729	Old Gold-MD	33	13	32	12	31	12
730	Olive Green-VY DK	276	108	265	104	255	100
731	Olive Green-DK	184	72	177	69	170	67
732	Olive Green	55	21	53	20	51	19
733	Olive Green-MD	252	99	242	95	233	91
738	Tan-VY LT	187	73	180	71	173	68
739	Tan-UL VY LT	354	139	341	134	328	129
746	Off White	83	32	80	31	77	30
747	Sky Blue-VY LT	141	55	136	53	131	51
758	Terra Cotta-VY LT	6	2	6	2	6	2
762	Pearl Gray-VY LT	657	258	631	249	608	239
780	Topaz-UL VY DK	78	30	75	29	73	28
781	Topaz-VY DK	44	17	42	17	41	16
782	Topaz-DK	4	1	4	1	4	1
819	Baby Pink-LT	137	53	132	51	127	49
822	Beige Gray-LT	223	88	215	84	207	81
829	Golden Olive-VY DK	134	53	129	51	124	49
831	Golden Olive-MD	59	23	57	22	55	21
833	Golden Olive-LT	30	12	28	11	27	11
838	Beige Brown-VY DK	33	13	32	12	31	12
844	Beaver Brown-UL DK	215	84	206	81	199	78
869	Hazelnut Brown-VY DK	228	89	219	86	211	83
920	Copper-MD	13	5	12	5	12	5
926	Gray Green-MD	368	145	354	139	341	134
927	Gray Green-LT	620	243	596	234	574	225
928	Gray Green-VY LT	202	79	194	76	187	73
935	Avocado Green-DK	572	225	550	216	530	208
937	Avocado Green-MD	261	102	251	98	242	95
938	Coffee Brown-UL DK	413	162	397	156	382	150
945	Tawny	49	19	47	18	45	17
948	Peach-VY LT	177	69	170	66	164	64
951	Tawny-LT	129	50	124	48	119	47
975	Golden Brown-DK	17	6	17	6	16	6
3011	Khaki Green-DK	496	195	477	188	459	181
3012	Khaki Green-MD	302	118	290	114	279	109
3013	Khaki Green-LT	632	248	608	239	585	230
3021	Brown Gray-VY DK	140	55	134	53	129	51
3024	Brown Gray-VY LT	398	156	383	150	369	145
3031	Mocha Brown-VY DK	477	187	458	180	441	173
3032	Mocha Brown-MD	418	164	402	158	387	152
3045	Yellow Beige-DK	145	57	139	55	134	53
3051	Green Gray-DK	342	135	329	129	317	125
3052	Green Gray-MD	245	96	235	92	227	89
3072	Beaver Gray-VY LT	461	181	443	174	427	167
3346	Hunter Green	91	36	88	35	85	33
3364	Pine Green	315	124	303	119	292	115
3371	Black Brown	1184	466	1139	448	1097	431
3726	Antique Mauve-DK	17	6	16	6	15	6
3743	Antique Violet-VY LT	9	3	8	3	8	3
3753	Antique Blue-UL VY LT	38	14	37	14	35	13

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3756	Baby Blue-UL VY LT	471	185	453	178	436	171
3776	Mahogany-LT	17	6	17	6	16	6
3777	Terra Cotta-VY DK	14	5	14	5	13	5
3778	Terra Cotta-LT	20	8	19	8	19	7
3781	Mocha Brown-DK	567	223	546	215	525	207
3782	Mocha Brown-LT	237	93	228	89	219	86
3787	Brown Gray-DK	190	74	183	71	176	69
3799	Pewter Gray-VY DK	658	258	633	249	609	239
3820	Straw-DK	5	1	5	1	5	1
3823	Yellow-UL Pale	77	30	74	29	71	28
3824	Apricot-LT	7	2	7	2	7	2
3826	Golden Brown	24	9	24	9	23	9
3828	Hazelnut Brown	69	27	66	26	64	25
3829	Old Gold-VY DK	74	29	71	28	69	27
3836	Grape-LT	3	1	3	1	3	1
3855	Autumn Gold-LT	37	14	36	14	35	13
3856	Mahogany-UL VY LT	72	28	69	27	67	26
3862	Mocha Beige-DK	40	16	39	15	37	15
3865	Winter White	1016	400	977	384	941	370

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	1720	677	1606	632	1505	592
300	Mahogany-VY DK	77	30	72	28	68	26
315	Antique Mauve-VY DK	6	2	5	2	5	2
318	Steel Gray-LT	205	80	191	75	179	70
353	Peach	26	10	25	10	23	9
371	Mustard	167	65	155	61	146	57
413	Pewter Gray-DK	74	29	69	27	65	25
414	Steel Gray-DK	73	28	68	26	64	25
415	Pearl Gray	82	32	76	30	71	28
420	Hazelnut Brown-DK	129	50	120	47	113	44
422	Hazelnut Brown-LT	127	50	119	46	111	43
433	Brown-MD	102	40	95	37	89	35
434	Brown-LT	37	14	35	13	33	12
435	Brown-VY LT	37	14	35	13	33	12
436	Tan	57	23	53	21	50	20
437	Tan-LT	71	28	66	26	62	24
503	Blue Green-MD	103	40	96	37	90	35
523	Fern Green-LT	312	123	292	115	273	107
524	Fern Green-VY LT	377	149	352	139	330	130
535	Ash Gray-VY LT	150	59	140	55	131	51
580	Moss Green-DK	177	69	166	65	155	61
581	Moss Green	217	86	203	80	190	75
610	Drab Brown-DK	170	66	158	62	149	58
611	Drab Brown	593	233	554	218	519	204
613	Drab Brown-VY LT	768	302	716	282	672	264
644	Beige Gray-MD	359	141	335	132	314	124
645	Beaver Gray-VY DK	177	69	165	65	155	61
647	Beaver Gray-MD	226	89	211	83	197	78
680	Old Gold-DK	47	18	44	17	41	16
729	Old Gold-MD	30	12	28	11	26	10
730	Olive Green-VY DK	246	96	230	90	215	84
731	Olive Green-DK	164	64	153	60	143	56
732	Olive Green	49	19	46	17	43	16
733	Olive Green-MD	225	88	210	82	197	77

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738	Tan-VY LT	167	66	156	61	146	57
739	Tan-UL VY LT	316	124	295	116	277	109
746	Off White	74	29	69	27	65	25
747	Sky Blue-VY LT	126	50	118	46	110	43
758	Terra Cotta-VY LT	6	2	5	2	5	2
762	Pearl Gray-VY LT	586	231	547	215	513	202
780	Topaz-UL VY DK	70	27	65	25	61	24
781	Topaz-VY DK	39	15	37	14	34	14
782	Topaz-DK	4	1	4	1	3	1
819	Baby Pink-LT	122	48	114	44	107	42
822	Beige Gray-LT	199	78	186	73	174	69
829	Golden Olive-VY DK	120	47	112	44	105	41
831	Golden Olive-MD	53	21	49	19	46	18
833	Golden Olive-LT	26	10	25	10	23	9
838	Beige Brown-VY DK	30	12	28	11	26	10
844	Beaver Brown-UL DK	192	75	179	70	168	66
869	Hazelnut Brown-VY DK	203	80	190	74	178	70
920	Copper-MD	12	5	11	4	10	4
926	Gray Green-MD	329	129	307	121	287	113
927	Gray Green-LT	554	217	517	203	484	190
928	Gray Green-VY LT	180	71	168	66	158	62
935	Avocado Green-DK	511	201	477	187	447	176
937	Avocado Green-MD	233	91	218	85	204	80
938	Coffee Brown-UL DK	368	145	344	135	322	127
945	Tawny	44	17	41	16	38	15
948	Peach-VY LT	158	62	148	58	138	54
951	Tawny-LT	115	45	107	42	101	39
975	Golden Brown-DK	15	6	14	5	14	5
3011	Khaki Green-DK	443	174	413	163	388	152
3012	Khaki Green-MD	269	105	251	98	236	92
3013	Khaki Green-LT	564	222	527	207	494	194
3021	Brown Gray-VY DK	125	49	116	46	109	43
3024	Brown Gray-VY LT	356	140	332	130	311	122
3031	Mocha Brown-VY DK	426	167	397	156	372	146
3032	Mocha Brown-MD	373	147	348	137	326	128
3045	Yellow Beige-DK	129	51	121	47	113	44
3051	Green Gray-DK	305	120	285	112	267	105
3052	Green Gray-MD	219	86	204	80	191	75
3072	Beaver Gray-VY LT	411	161	384	151	360	141
3346	Hunter Green	82	32	76	30	71	28
3364	Pine Green	282	111	263	103	246	97
3371	Black Brown	1058	416	987	388	925	364
3726	Antique Mauve-DK	15	6	14	5	13	5
3743	Antique Violet-VY LT	8	3	7	2	7	2
3753	Antique Blue-UL VY LT	34	13	32	12	30	11
3756	Baby Blue-UL VY LT	420	165	392	154	368	145
3776	Mahogany-LT	15	6	14	5	14	5
3777	Terra Cotta-VY DK	13	5	12	4	11	4
3778	Terra Cotta-LT	18	7	17	7	16	6
3781	Mocha Brown-DK	507	199	473	186	443	174
3782	Mocha Brown-LT	212	83	197	77	185	73
3787	Brown Gray-DK	170	66	158	62	149	58
3799	Pewter Gray-VY DK	588	231	548	215	514	202
3820	Straw-DK	5	1	4	1	4	1
3823	Yellow-UL Pale	69	27	64	25	60	24
3824	Apricot-LT	6	2	6	2	6	2
3826	Golden Brown	22	8	20	8	19	7
3828	Hazelnut Brown	62	24	58	22	54	21
3829	Old Gold-VY DK	66	26	62	24	58	23

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3836	Grape-LT	3	1	2	1	2	1
3855	Autumn Gold-LT	33	13	31	12	29	11
3856	Mahogany-UL VY LT	64	25	60	23	56	22
3862	Mocha Beige-DK	36	14	34	13	32	12
3865	Winter White	907	357	847	333	794	312

[illegible]

(9)

(10)

$$(10) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (11)$$

[illegible]

(12)

[illegible]

[illegible]

	110	120	130	140	150
80
90
100
110
120
130
140
150

[illegible]

[illegible]

(18)

$$(19) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

(21)

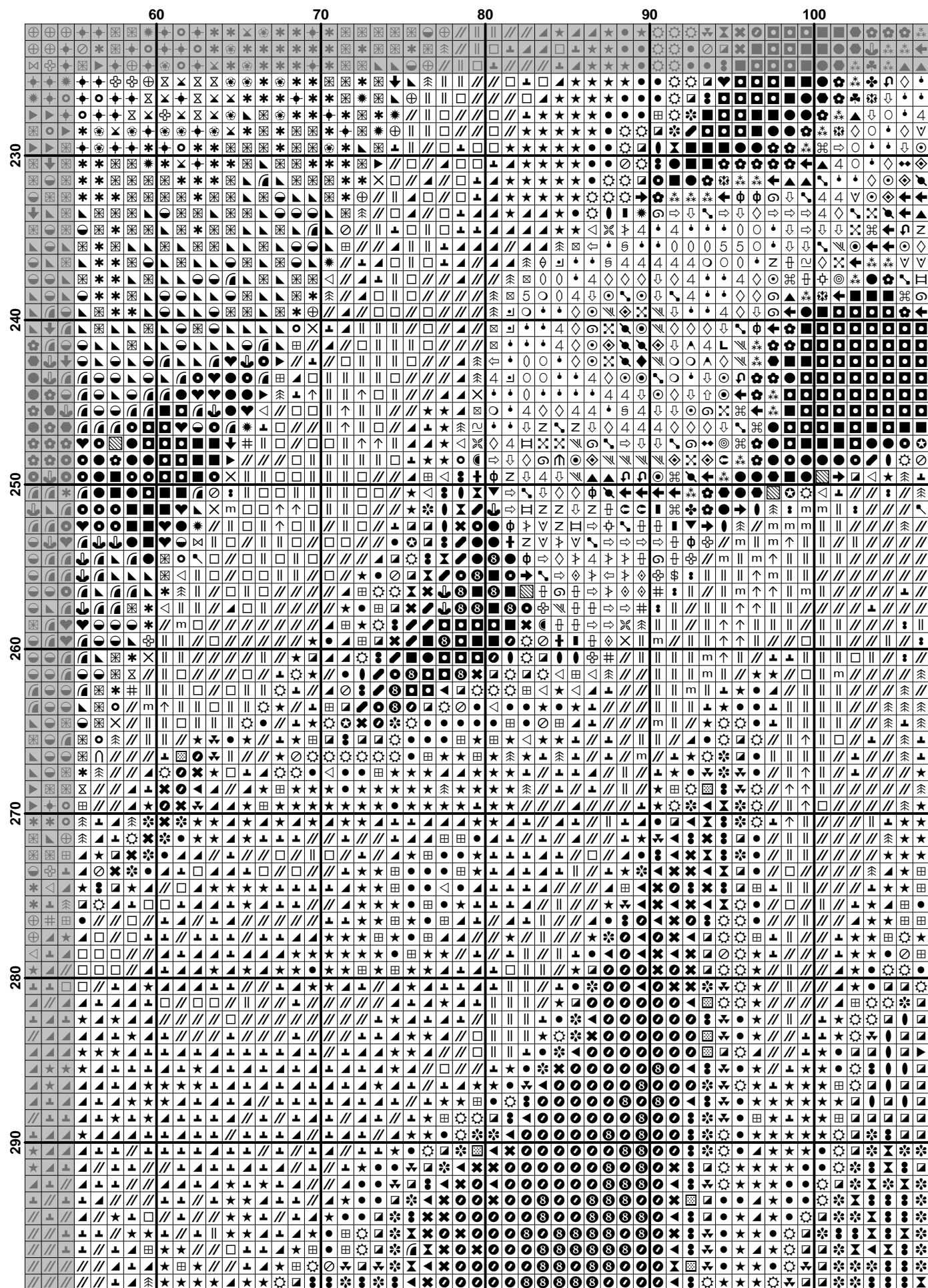
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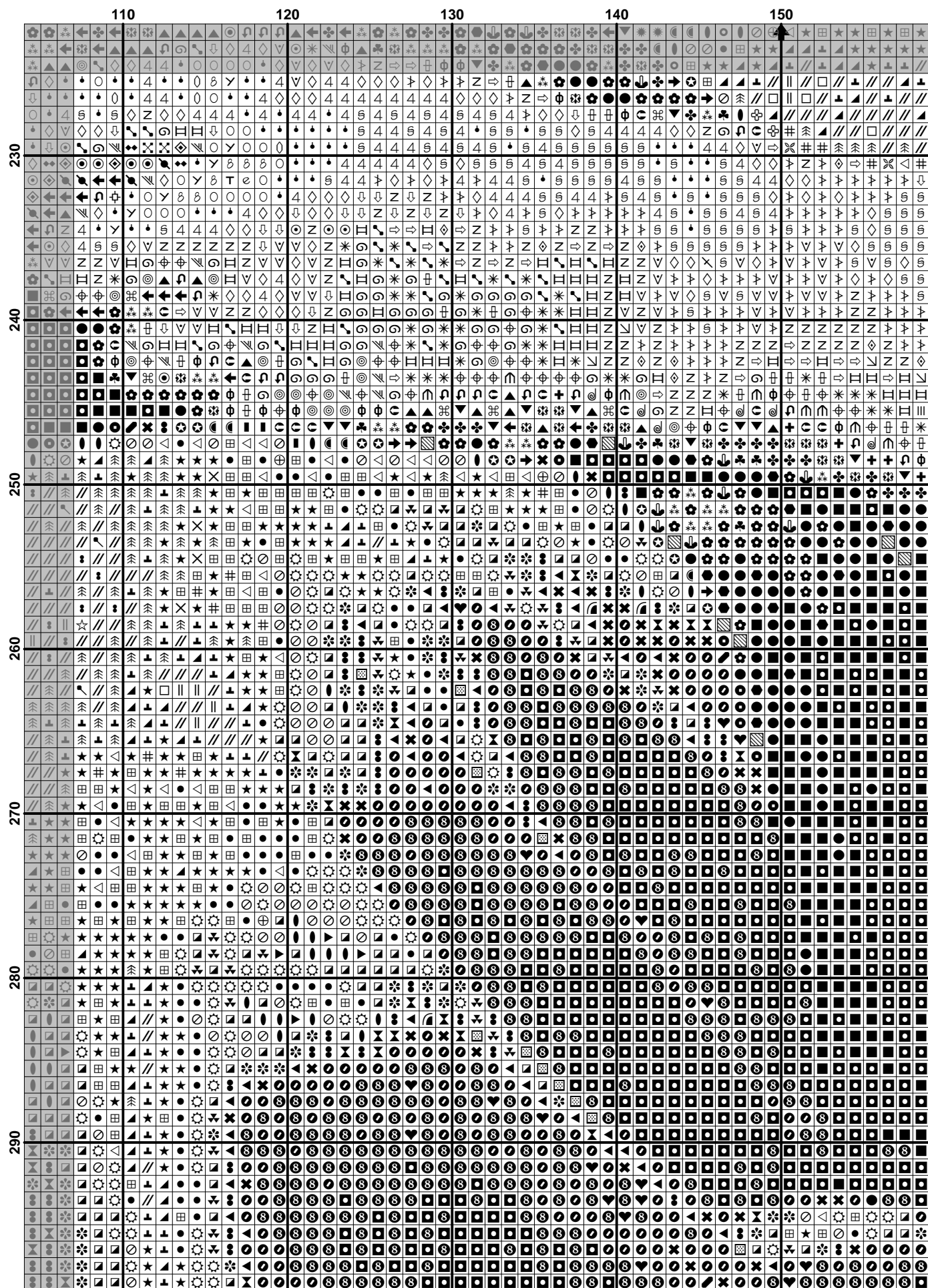
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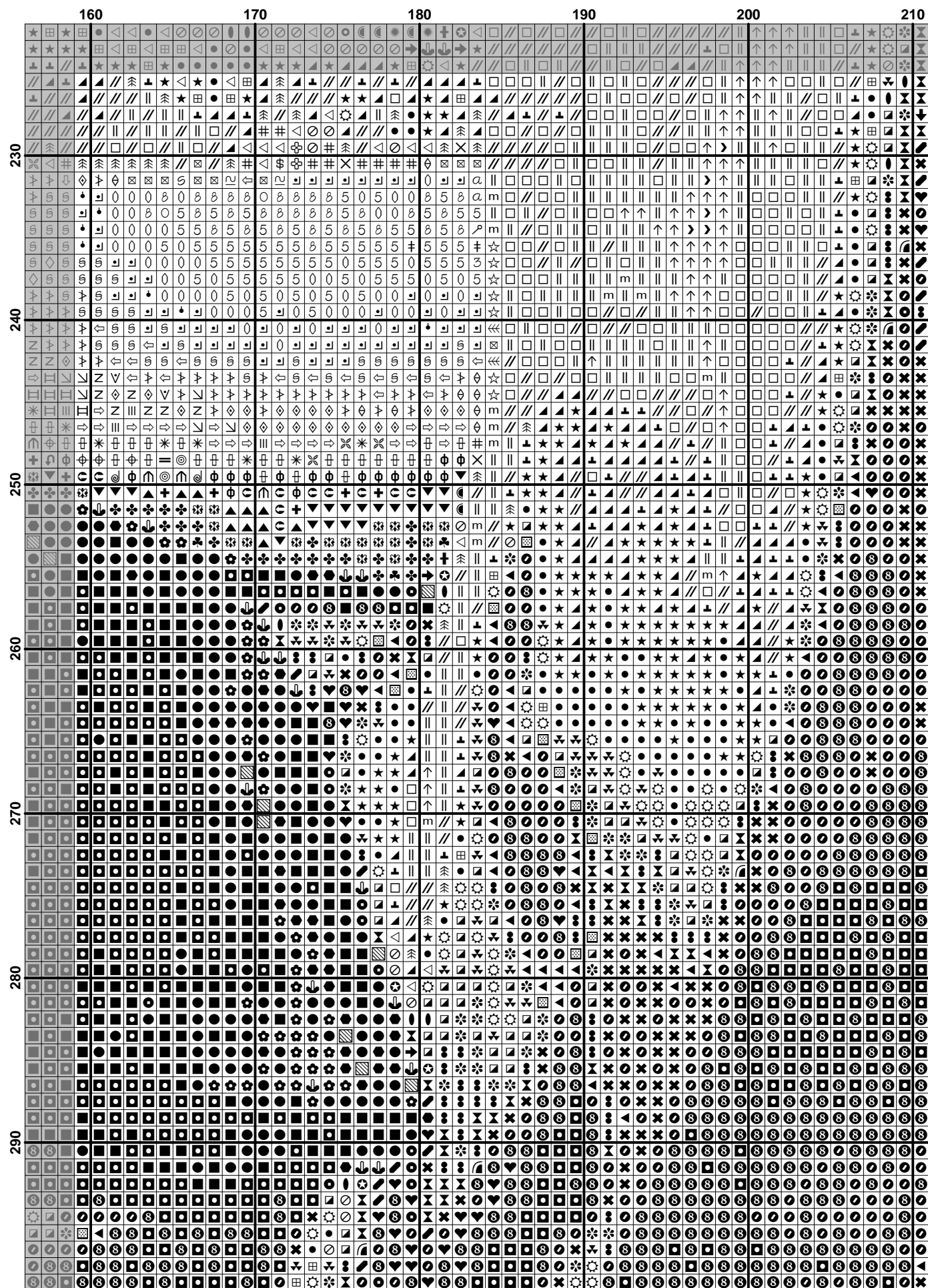
$$(23) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (24)$$

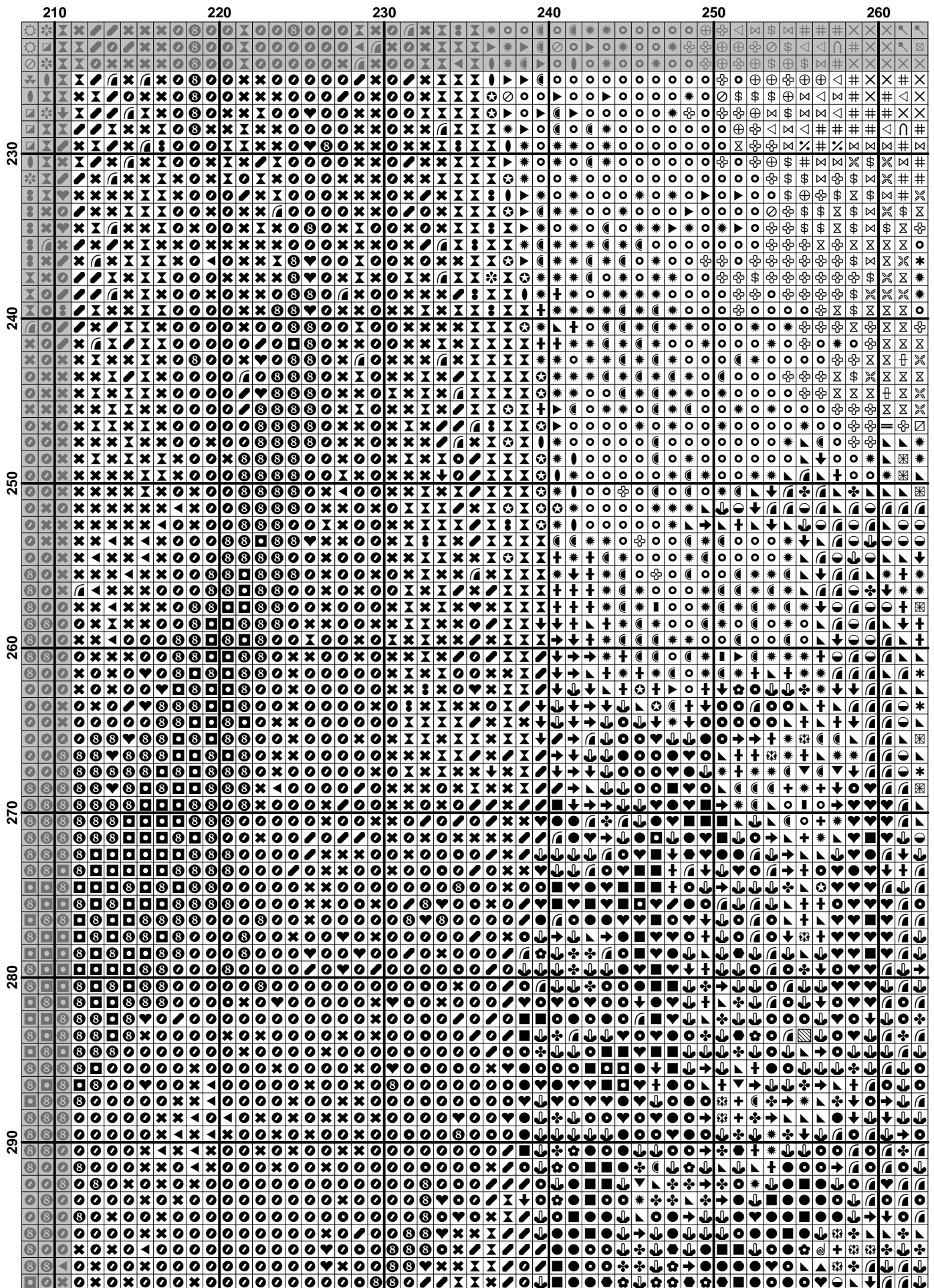
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180	2	2	2	2	2
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210	2	2	2	2	2
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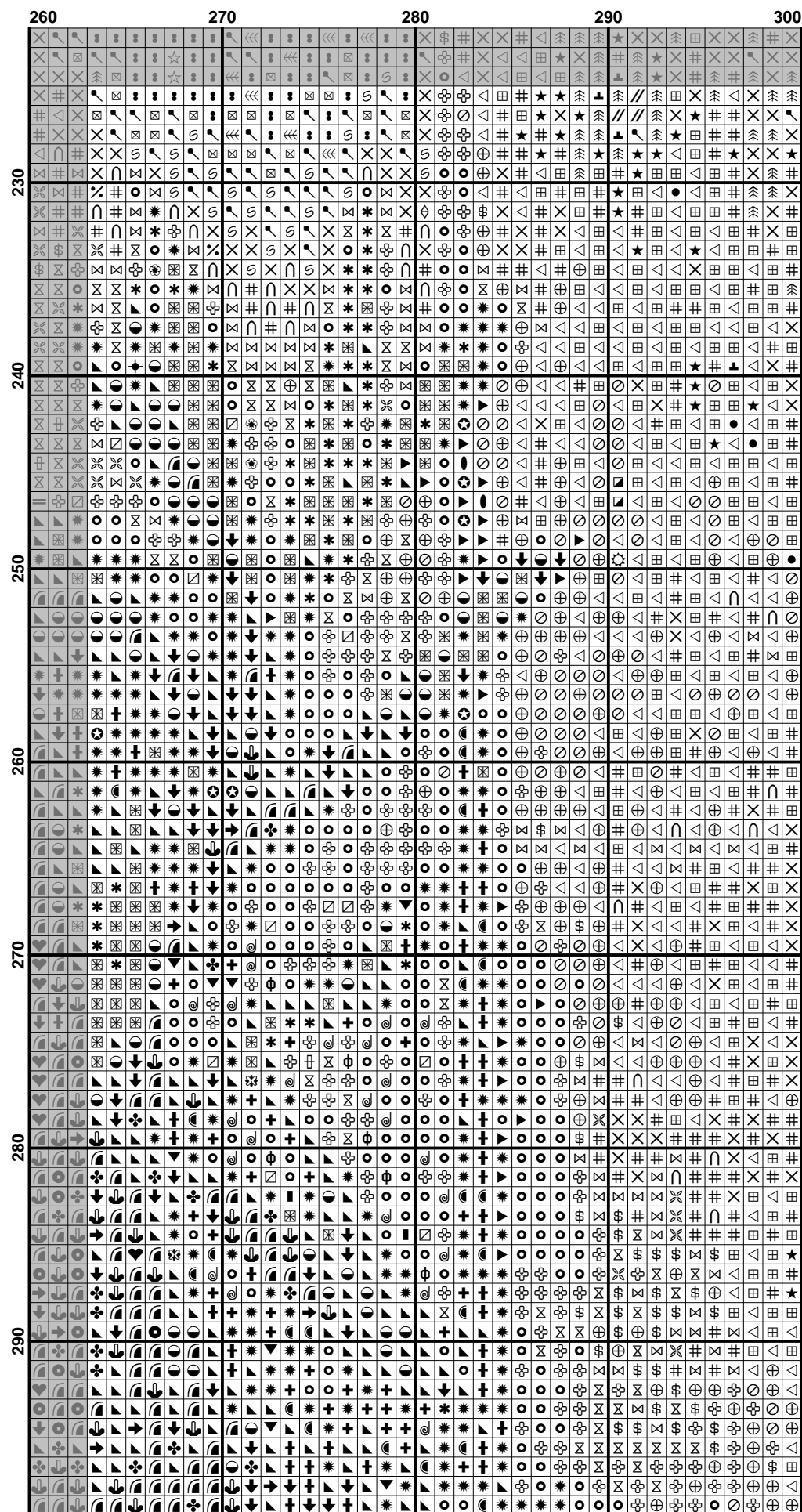
$$(25) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \cup \mathcal{L}(\mathcal{C}) \quad (26)$$



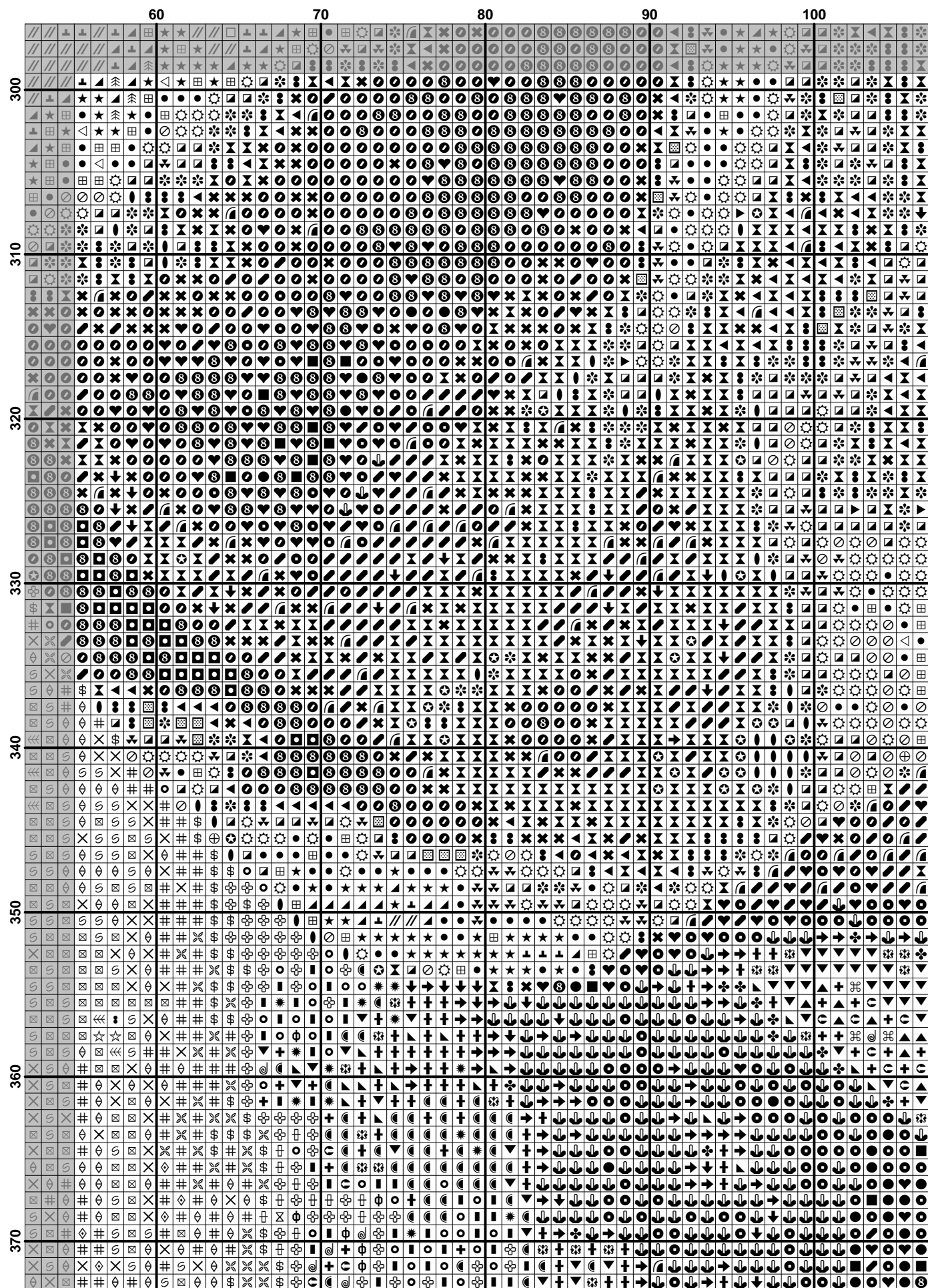


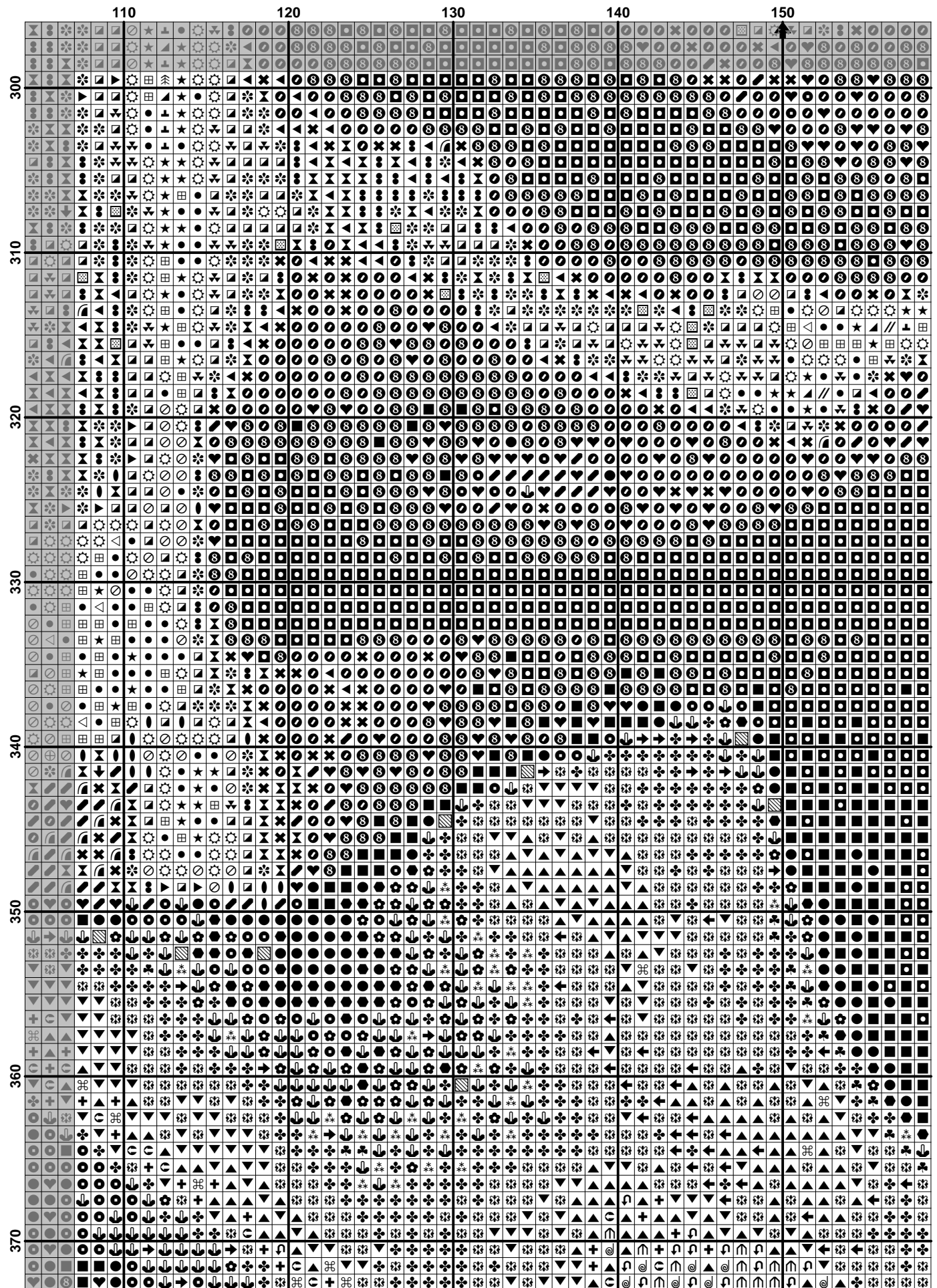


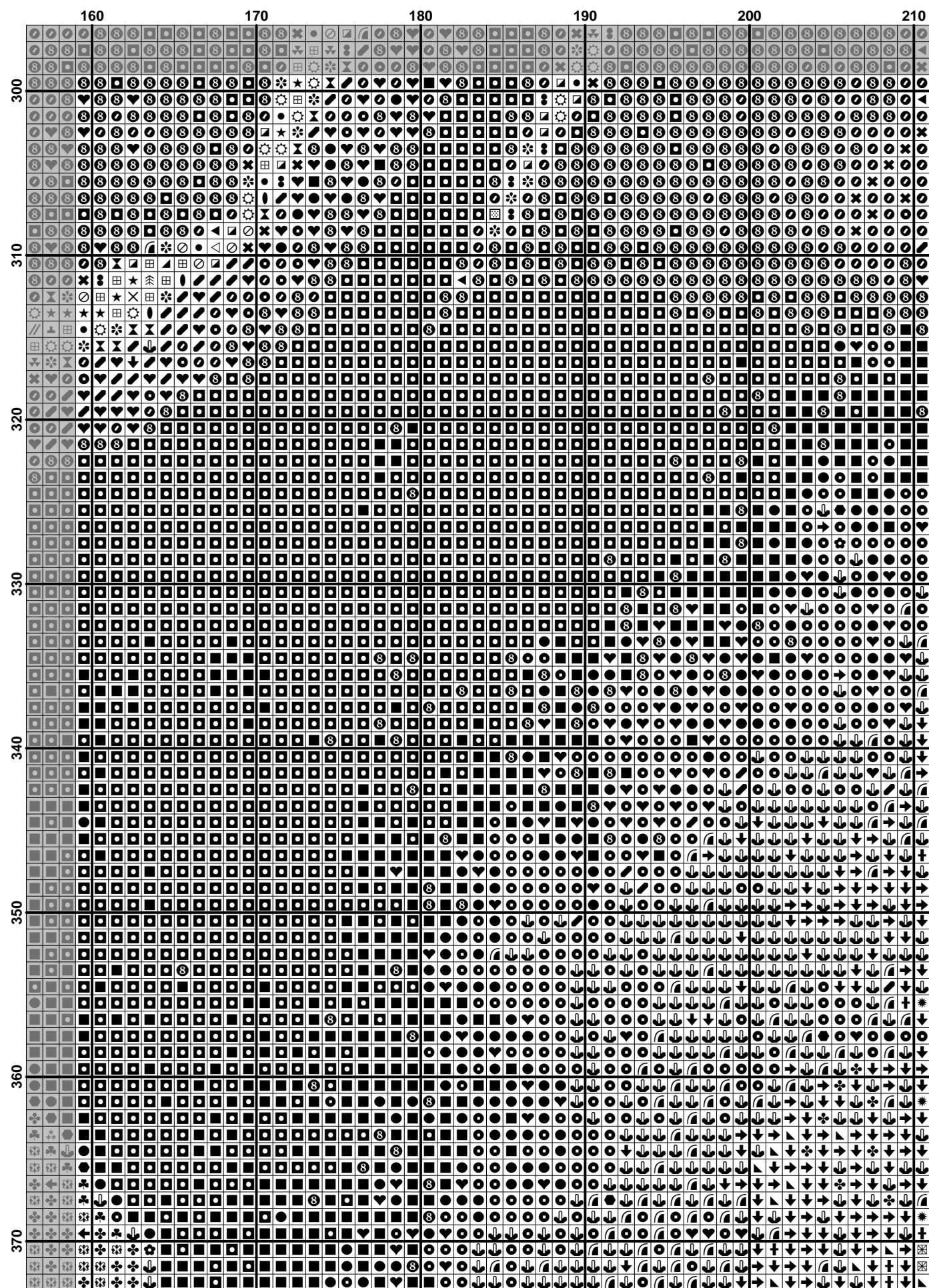


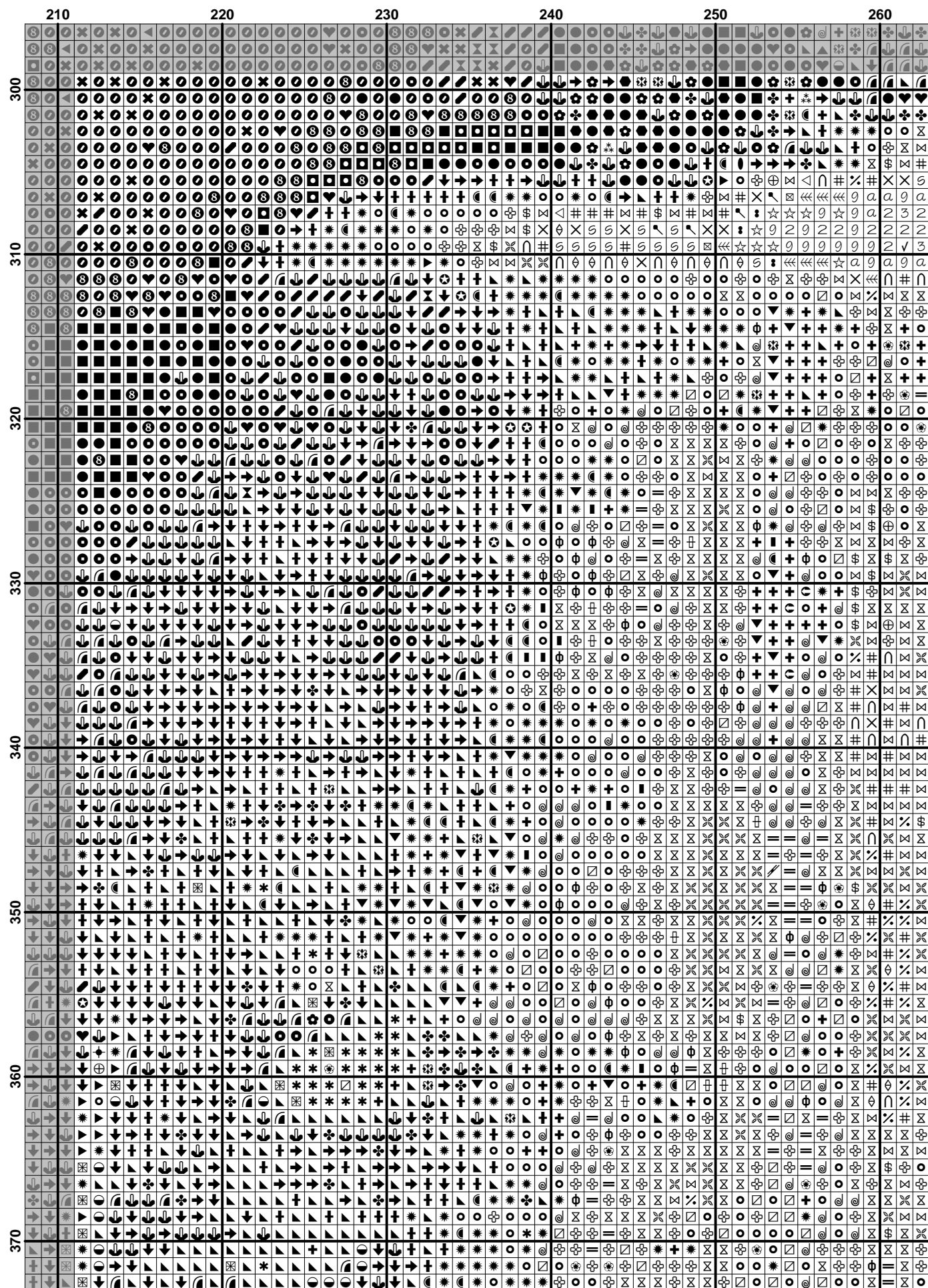


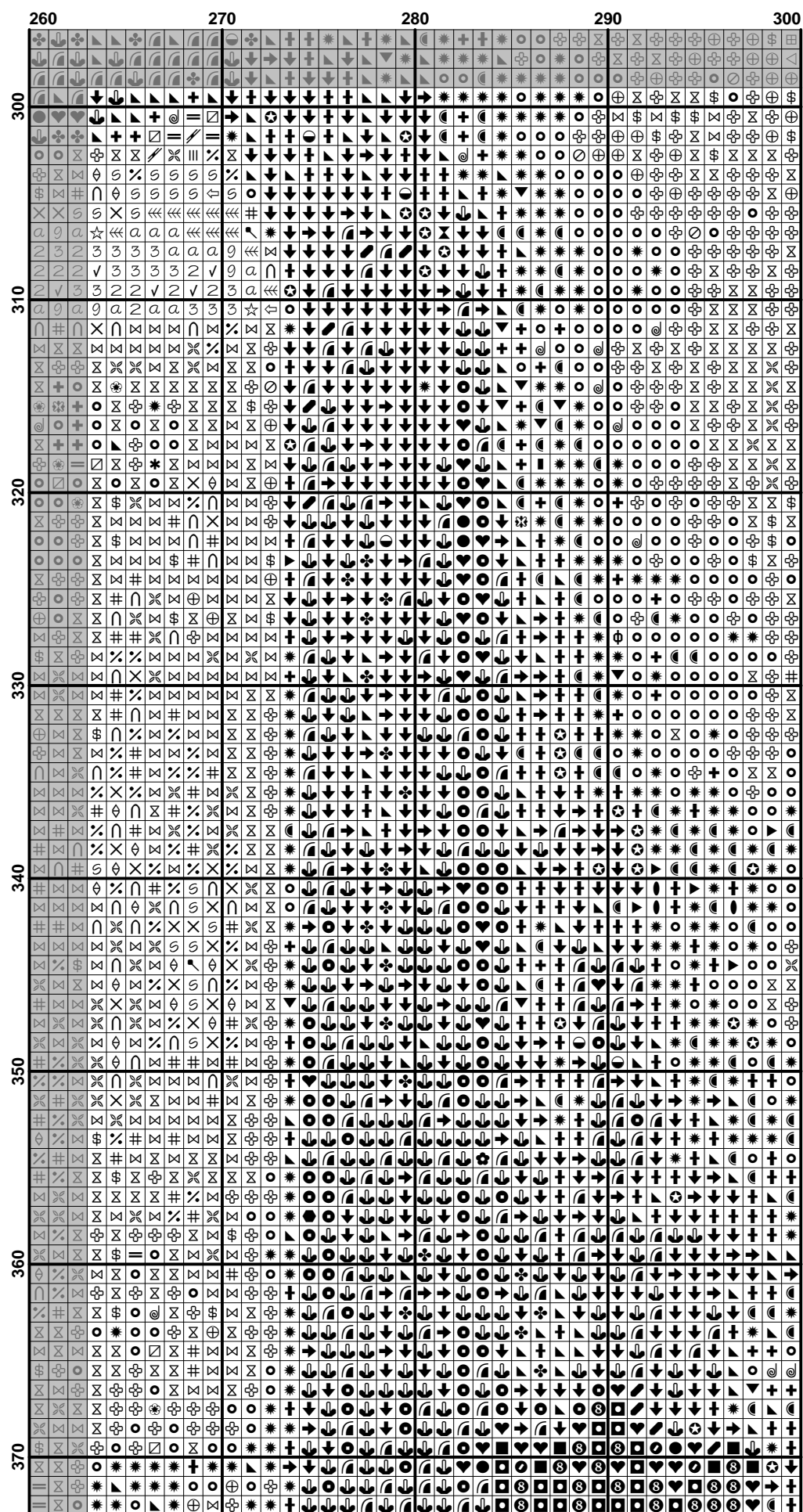
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320	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
330	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
340	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
350	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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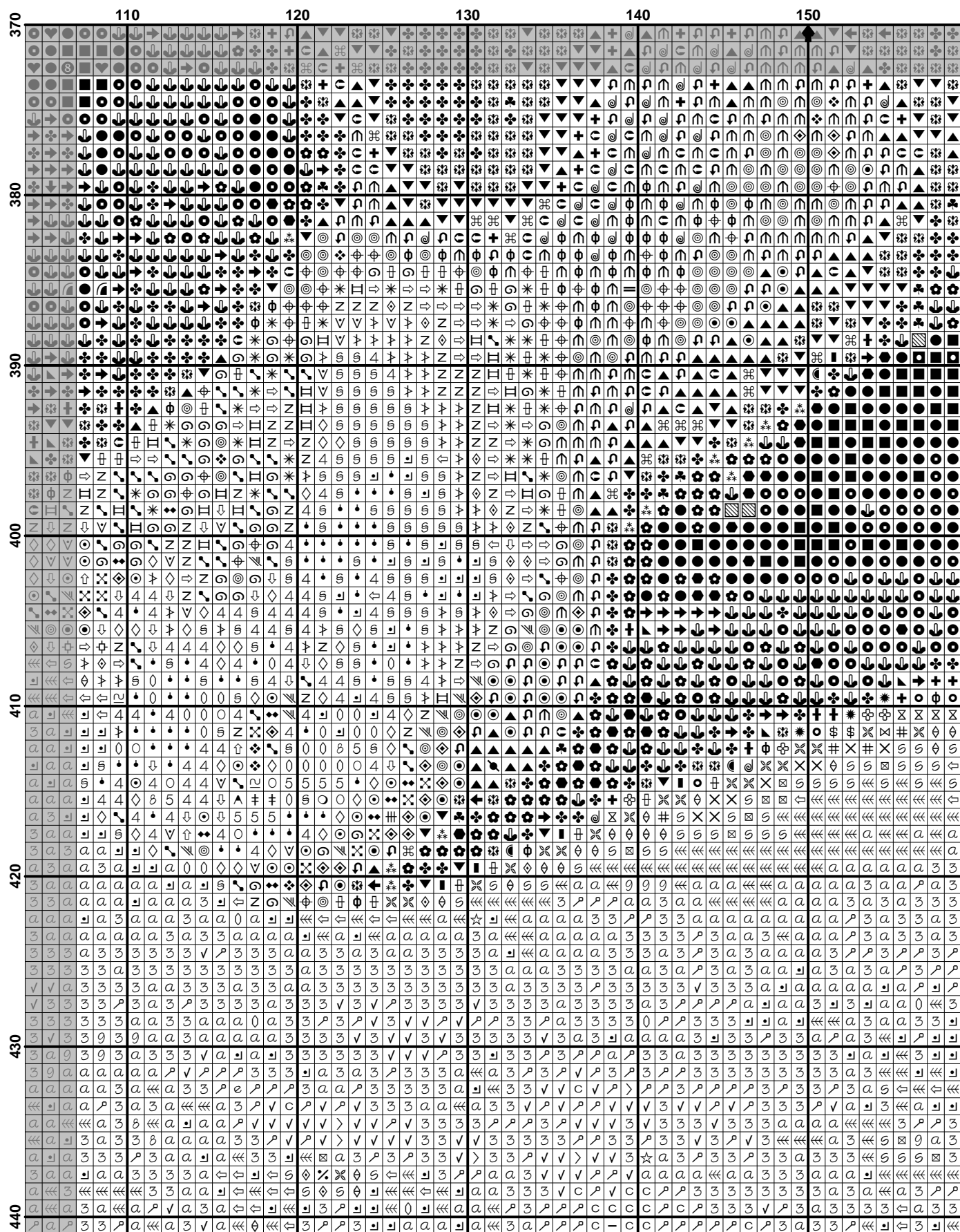


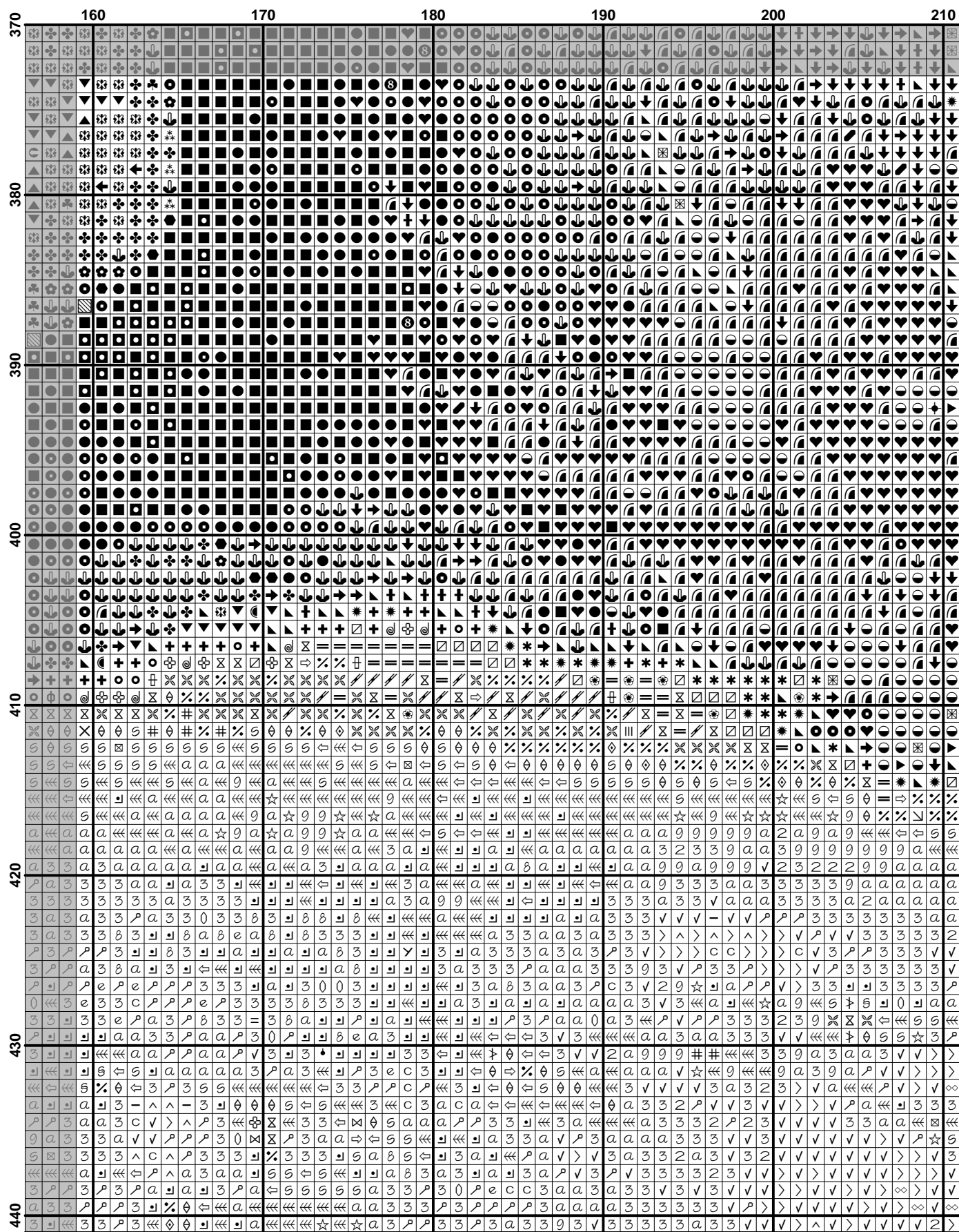




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380					
390					
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410					
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430					
440					

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370						
380						
390						
400						
410						
420						
430						
440						

