

## 991 The Oriental



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## Instructions

Thank you for choosing Golden Kite products!  
We hope you will have lots of fun with this cross-stitch pattern!

### Fabric

Press the fabric with an iron if needed. A good thing to prevent the fabric from fraying is to machine zigzag the edges.

On large patterns, it is easiest to start from the upper left corner of the design. Make sure you have the proper margins before starting and that the fabric piece is of the correct size. The best way to verify this is to count all stitch positions on the fabric from the upper left corner downwards and to the right to make sure there is enough space for the design.

Some prefer to start in the center of the design instead. To locate the center of the fabric, fold the fabric in half both vertically and horizontally. The center is located where these two folds meet.

### Stitches

Each length of DMC tread consists of six strands.  
Use two of these strands for all stitches.

Note that some colors may be mixes (or blends) between two different pure colors. In that case take one strand of the two colors each and thread the two strands into the needle at the same time for stitching.

All stitches are full cross-stitches. No half-stitching and no back-stitching is necessary in this pattern.

All cross-stitches will be worked into the holes in the fabric from left to right. Always use the larger holes in the fabric for the stitches. Adjacent stitches should meet in the same hole. Make sure all stitches cross in the same direction.

Please be careful when washing the finished embroidery! The cotton thread may bleed when washed. Only hand wash it in lukewarm water. Remove excess water by roll it in a towel and lay it flat to air dry. Natural fabrics may shrink slightly when washed. We do not recommend washing the embroidery if not absolutely necessary and we take no responsibility for any damage that may occur.

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## The Oriental

Stitch Count		Recommended Fabric Color	
Horizontal:	500	Antique White	
Vertical:	621		

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:	91	35.67	113	44.35	80	31.21	99	38.81	71	27.75	88	34.5
Including Margins:	107	42	129	51	96	38	115	45	87	34	104	41
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	127	49.93	158	62.09	106	41.61	131	51.74	53	20.8	65	25.87
Including Margins:	143	56	174	69	122	48	147	58	69	27	81	32
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	50	19.97	63	24.83	49	19.2	60	23.88	47	18.49	58	22.99
Including Margins:	66	26	79	31	65	26	76	30	63	25	74	29
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	45	17.83	56	22.17	42	16.64	52	20.69	39	15.6	49	19.4
Including Margins:	61	24	72	29	58	23	68	27	55	22	65	26

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
∞	1	White 1
—	210	Lavender-MD
1	211	Lavender-LT
n	224	Shell Pink-VY LT
●	300	Mahogany-VY DK
▣	301	Mahogany-MD
⦿	317	Pewter Gray
◊	318	Steel Gray-LT
⌒	341	Blue Violet-LT
⬆	350	Coral-MD
◇	353	Peach
⦿	355	Terra Cotta-DK
⌒	356	Terra Cotta-MD
▣	400	Mahogany-DK
◊	402	Mahogany-VY LT
○	407	Desert Sand-DK
▲	414	Steel Gray-DK
L	415	Pearl Gray
●	420	Hazelnut Brown-DK
~	433	Brown-MD
=	434	Brown-LT
✱	435	Brown-VY LT
↓	436	Tan
//	437	Tan-LT
✱	451	Shell Gray-DK
✱	452	Shell Gray-MD
5	453	Shell Gray-LT
⬆	632	Desert Sand-UL VY DK
⦿	647	Beaver Gray-MD
✕	680	Old Gold-DK
⦿	720	Orange Spice-DK
★	721	Orange Spice-MD
◎	722	Orange Spice-LT
α	743	Yellow -MD
≡	744	Yellow -Pale
△	745	Yellow -LT Pale
δ	746	Off White
5	754	Peach-LT
✕	758	Terra Cotta-VY LT
:	761	Salmon-LT
9	762	Pearl Gray-VY LT
III	780	Topaz-UL VY DK
⦿	782	Topaz-DK
♠	783	Topaz-MD
†	801	Coffee Brown-DK
♣	829	Golden Olive-VY DK
↓	838	Beige Brown-VY DK

+	839	Beige Brown-DK
○	840	Beige Brown-MD
2	842	Beige Brown-VY LT
▣	844	Beaver Brown-UL DK
●	869	Hazelnut Brown-VY DK
⦿	900	Burnt Orange-DK
←	918	Red Copper-DK
▣	919	Red Copper
▣	920	Copper-MD
●	938	Coffee Brown-UL DK
~	945	Tawny
L	946	Burnt Orange-MD
III	947	Burnt Orange
☆	948	Peach-VY LT
/	950	Desert Sand-LT
(	951	Tawny -LT
^	963	Dusty Rose-UL VY LT
⦿	972	Canary-DK
○	977	Golden Brown-LT
◆	3021	Brown Gray -VY DK
⦿	3041	Antique Violet-MD
↑	3042	Antique Violet-LT
H	3064	Desert Sand
♠	3340	Apricot-MD
⦿	3713	Salmon-VY LT
≡	3721	Shell Pink-DK
«	3740	Antique Violet-DK
3	3743	Antique Violet-VY LT
C	3770	Tawny -VY LT
✕	3772	Desert Sand-VY DK
β	3774	Desert Sand-VY LT
⦿	3776	Mahogany-LT
♠	3778	Terra Cotta-LT
⌒	3779	Terra Cotta-UL VY LT
::	3823	Yellow -UL Pale
✓	3824	Apricot-LT
I	3825	Pumpkin-Pale
⦿	3827	Golden Brown-Pale
⦿	3829	Old Gold-VY DK
田	3830	Terra Cotta-MD
↓	3834	Grape-DK
///	3852	Straw -VY DK
□	3853	Autumn Gold-DK
u	3854	Autumn Gold-MD
γ	3856	Mahogany-UL VY LT
+	3858	Rosewood-MD
✱	3859	Rosewood-LT
β	3860	Cocoa
⌒	3861	Cocoa-LT
♡	3865	Winter White

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

Symbol	DMC1	Name1	DMC2	Name2
	435	Brown-VY LT	436	Tan
	436	Tan	356	Terra Cotta-MD
	782	Topaz-DK	3852	Straw -VY DK
	963	Dusty Rose-UL VY LT	3743	Antique Violet-VY LT
	780	Topaz-UL VY DK	782	Topaz-DK
	3858	Rosewood-MD	3859	Rosewood-LT
	407	Desert Sand-DK	3864	Mocha Beige-LT
	402	Mahogany-VY LT	758	Terra Cotta-VY LT
	402	Mahogany-VY LT	436	Tan
	402	Mahogany-VY LT	3778	Terra Cotta-LT
	745	Yellow-LT Pale	754	Peach-LT
	3712	Salmon-MD	402	Mahogany-VY LT
	420	Hazelnut Brown-DK	632	Desert Sand-UL VY DK
	3865	Winter White	1	White 1
	3371	Black Brown	300	Mahogany-VY DK
	436	Tan	922	Copper-LT
	922	Copper-LT	3828	Hazelnut Brown
	3830	Terra Cotta-MD	435	Brown-VY LT
	300	Mahogany-VY DK	433	Brown-MD
	720	Orange Spice-DK	782	Topaz-DK
	720	Orange Spice-DK	780	Topaz-UL VY DK
	3778	Terra Cotta-LT	758	Terra Cotta-VY LT
	301	Mahogany-MD	420	Hazelnut Brown-DK
	793	Cornflower Blue-MD	414	Steel Gray-DK
	3371	Black Brown	938	Coffee Brown-UL DK
	437	Tan-LT	3778	Terra Cotta-LT
	3863	Mocha Beige-MD	3802	Antique Mauve-VY DK
	801	Coffee Brown-DK	838	Beige Brown-VY DK
	3776	Mahogany-LT	402	Mahogany-VY LT
	3856	Mahogany-UL VY LT	758	Terra Cotta-VY LT
	3828	Hazelnut Brown	3772	Desert Sand-VY DK
	347	Salmon-VY DK	900	Burnt Orange-DK
	437	Tan-LT	3825	Pumpkin-Pale
	3772	Desert Sand-VY DK	3858	Rosewood-MD
	3853	Autumn Gold-DK	977	Golden Brown-LT
	402	Mahogany-VY LT	437	Tan-LT
	3776	Mahogany-LT	3778	Terra Cotta-LT
	402	Mahogany-VY LT	435	Brown-VY LT
	300	Mahogany-VY DK	898	Coffee Brown-VY DK
	758	Terra Cotta-VY LT	437	Tan-LT
	3712	Salmon-MD	3825	Pumpkin-Pale
	3852	Straw -VY DK	741	Tangerine-MD
	782	Topaz-DK	976	Golden Brown-MD
	741	Tangerine-MD	972	Canary-DK
	3776	Mahogany-LT	435	Brown-VY LT
	400	Mahogany-DK	433	Brown-MD
	301	Mahogany-MD	921	Copper
	839	Beige Brown-DK	869	Hazelnut Brown-VY DK
	3790	Beige Gray-UL DK	3802	Antique Mauve-VY DK
	645	Beaver Gray-VY DK	3802	Antique Mauve-VY DK
	400	Mahogany-DK	3857	Rosewood-DK
	300	Mahogany-VY DK	400	Mahogany-DK
	814	Garnet-DK	938	Coffee Brown-UL DK

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■	3371	Black Brown	814	Garnet-DK
●	814	Garnet-DK	300	Mahogany-VY DK
●	814	Garnet-DK	400	Mahogany-DK
⌵	975	Golden Brown-DK	433	Brown-MD
▼	869	Hazelnut Brown-VY DK	975	Golden Brown-DK
Φ	420	Hazelnut Brown-DK	975	Golden Brown-DK
✱	3862	Mocha Beige-DK	420	Hazelnut Brown-DK
▲	434	Brown-LT	400	Mahogany-DK
♥	3857	Rosewood-DK	300	Mahogany-VY DK
❖	741	Tangerine-MD	720	Orange Spice-DK
♠	720	Orange Spice-DK	921	Copper
✱	720	Orange Spice-DK	301	Mahogany-MD
⌵	782	Topaz-DK	3826	Golden Brown
▼	435	Brown-VY LT	3826	Golden Brown
∩	435	Brown-VY LT	922	Copper-LT
∩	435	Brown-VY LT	437	Tan-LT
✱	3776	Mahogany-LT	3826	Golden Brown
▲	758	Terra Cotta-VY LT	3825	Pumpkin-Pale
●	301	Mahogany-MD	400	Mahogany-DK
✱	920	Copper-MD	434	Brown-LT
✱	720	Orange Spice-DK	3826	Golden Brown
▲	3776	Mahogany-LT	3830	Terra Cotta-MD
∩	3776	Mahogany-LT	356	Terra Cotta-MD
◁	356	Terra Cotta-MD	922	Copper-LT
✱	3776	Mahogany-LT	350	Coral-MD
✱	435	Brown-VY LT	3778	Terra Cotta-LT
✱	3776	Mahogany-LT	783	Topaz-MD
=	3712	Salmon-MD	758	Terra Cotta-VY LT
↑	3825	Pumpkin-Pale	760	Salmon
<	224	Shell Pink-VY LT	761	Salmon-LT
7	224	Shell Pink-VY LT	352	Coral-LT
◇	352	Coral-LT	3824	Apricot-LT
○	761	Salmon-LT	353	Peach
⌵	3733	Dusty Rose	224	Shell Pink-VY LT
z	3712	Salmon-MD	3776	Mahogany-LT
◇	350	Coral-MD	356	Terra Cotta-MD
□	3859	Rosewood-LT	3722	Shell Pink-MD
☉	3722	Shell Pink-MD	3860	Cocoa
√	353	Peach	3689	Mauve-LT
↖	782	Topaz-DK	741	Tangerine-MD
6	746	Off White	963	Dusty Rose-UL VY LT
✱	720	Orange Spice-DK	976	Golden Brown-MD
?	3856	Mahogany-UL VY LT	744	Yellow -Pale
>	762	Pearl Gray-VY LT	211	Lavender-LT
☼	793	Cornflower Blue-MD	318	Steel Gray-LT
▶	347	Salmon-VY DK	920	Copper-MD
◡	318	Steel Gray-LT	341	Blue Violet-LT
⊕	208	Lavender-VY DK	318	Steel Gray-LT
4	741	Tangerine-MD	976	Golden Brown-MD
4	741	Tangerine-MD	780	Topaz-UL 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	311	122	296	116	266	104
208	Lavender-VY DK	34	13	32	12	29	11
210	Lavender-MD	21	8	20	7	18	7
211	Lavender-LT	71	27	67	26	61	24
224	Shell Pink-VY LT	199	78	190	74	171	67
300	Mahogany-VY DK	13237	5211	12607	4963	11346	4466
301	Mahogany-MD	3027	1191	2883	1135	2594	1021
317	Pewter Gray	40	15	38	14	34	13
318	Steel Gray-LT	150	59	143	56	129	50
341	Blue Violet-LT	86	33	82	32	74	29
347	Salmon-VY DK	652	256	621	244	559	220
350	Coral-MD	41	16	39	15	35	13
352	Coral-LT	46	18	43	16	39	15
353	Peach	253	99	241	94	217	85
355	Terra Cotta-DK	1046	411	996	392	897	353
356	Terra Cotta-MD	152	59	145	57	130	51
400	Mahogany-DK	5186	2041	4939	1944	4445	1750
402	Mahogany-VY LT	442	174	421	165	379	149
407	Desert Sand-DK	75	29	71	27	64	25
414	Steel Gray-DK	61	24	58	22	52	20
415	Pearl Gray	97	38	92	36	83	32
420	Hazelnut Brown-DK	2624	1033	2499	983	2249	885
433	Brown-MD	2957	1164	2816	1108	2534	997
434	Brown-LT	1884	741	1794	706	1615	635
435	Brown-VY LT	1297	510	1235	486	1112	437
436	Tan	356	140	339	133	305	120
437	Tan-LT	456	179	434	170	391	153
451	Shell Gray-DK	58	22	55	21	49	19
452	Shell Gray-MD	45	17	43	16	38	14
453	Shell Gray-LT	43	16	41	16	37	14
632	Desert Sand-UL VY DK	571	224	544	214	489	192
645	Beaver Gray-VY DK	42	16	40	15	36	14
647	Beaver Gray-MD	14	5	13	5	12	4
680	Old Gold-DK	44	17	41	16	37	14
720	Orange Spice-DK	1608	633	1531	602	1378	542
721	Orange Spice-MD	34	13	32	12	29	11
722	Orange Spice-LT	34	13	32	12	29	11
741	Tangerine-MD	1612	634	1535	604	1382	544
743	Yellow -MD	20	7	19	7	17	6
744	Yellow -Pale	62	24	59	23	53	20
745	Yellow -LT Pale	75	29	71	27	64	25
746	Off White	164	64	156	61	140	55
754	Peach-LT	126	49	120	47	108	42
758	Terra Cotta-VY LT	686	270	653	257	588	231
760	Salmon	15	5	15	5	13	5
761	Salmon-LT	248	97	236	92	212	83
762	Pearl Gray-VY LT	68	26	65	25	58	22
780	Topaz-UL VY DK	3430	1350	3267	1286	2940	1157
782	Topaz-DK	3545	1395	3376	1329	3038	1196
783	Topaz-MD	114	44	108	42	98	38
793	Cornflower Blue-MD	53	20	51	20	45	17
801	Coffee Brown-DK	1158	455	1103	434	993	390
814	Garnet-DK	4056	1596	3863	1520	3477	1368
829	Golden Olive-VY DK	226	88	215	84	194	76

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838	Beige Brown-VY DK	1547	609	1473	579	1326	522
839	Beige Brown-DK	425	167	405	159	364	143
840	Beige Brown-MD	36	14	34	13	31	12
842	Beige Brown-VY LT	24	9	23	9	20	7
844	Beaver Brown-UL DK	25	9	23	9	21	8
869	Hazelnut Brown-VY DK	1009	397	961	378	865	340
898	Coffee Brown-VY DK	2543	1001	2422	953	2180	858
900	Burnt Orange-DK	109	42	103	40	93	36
918	Red Copper-DK	429	168	409	161	368	144
919	Red Copper	275	108	262	103	235	92
920	Copper-MD	2396	943	2282	898	2054	808
921	Copper	387	152	369	145	332	130
922	Copper-LT	335	131	319	125	287	112
938	Coffee Brown-UL DK	5346	2104	5092	2004	4582	1803
945	Tawny	92	36	87	34	78	30
946	Burnt Orange-MD	14	5	13	5	12	4
947	Burnt Orange	27	10	26	10	23	9
948	Peach-VY LT	66	25	63	24	57	22
950	Desert Sand-LT	227	89	216	85	194	76
951	Tawny -LT	34	13	33	12	29	11
963	Dusty Rose-UL VY LT	105	41	100	39	90	35
972	Canary-DK	96	37	91	35	82	32
975	Golden Brown-DK	1732	681	1650	649	1485	584
976	Golden Brown-MD	285	112	271	106	244	96
977	Golden Brown-LT	104	40	99	38	89	35
3021	Brown Gray -VY DK	67	26	63	24	57	22
3041	Antique Violet-MD	69	27	66	25	59	23
3042	Antique Violet-LT	43	16	41	16	37	14
3064	Desert Sand	86	33	82	32	74	29
3340	Apricot-MD	27	10	26	10	23	9
3371	Black Brown	9798	3857	9332	3674	8398	3306
3689	Mauve-LT	90	35	86	33	77	30
3712	Salmon-MD	54	21	51	20	46	18
3713	Salmon-VY LT	91	35	86	33	78	30
3721	Shell Pink- DK	228	89	217	85	195	76
3722	Shell Pink- MD	26	10	25	9	22	8
3733	Dusty Rose	19	7	18	7	16	6
3740	Antique Violet-DK	55	21	52	20	47	18
3743	Antique Violet-VY LT	93	36	89	35	80	31
3770	Tawny -VY LT	46	18	44	17	40	15
3772	Desert Sand-VY DK	231	90	220	86	198	77
3774	Desert Sand-VY LT	65	25	62	24	56	22
3776	Mahogany-LT	606	238	577	227	519	204
3778	Terra Cotta-LT	337	132	321	126	289	113
3779	Terra Cotta-UL VY LT	372	146	355	139	319	125
3790	Beige Gray-UL DK	32	12	30	11	27	10
3802	Antique Mauve-VY DK	93	36	88	34	80	31
3823	Yellow -UL Pale	53	20	50	19	45	17
3824	Apricot-LT	53	20	51	20	46	18
3825	Pumpkin-Pale	162	63	154	60	138	54
3826	Golden Brown	1277	502	1216	478	1094	430
3827	Golden Brown-Pale	34	13	33	12	29	11
3828	Hazelnut Brown	219	86	208	81	187	73
3829	Old Gold-VY DK	241	94	229	90	206	81
3830	Terra Cotta-MD	404	159	385	151	346	136
3834	Grape-DK	30	11	29	11	26	10
3852	Straw -VY DK	136	53	130	51	117	46
3853	Autumn Gold-DK	70	27	66	25	60	23
3854	Autumn Gold-MD	32	12	31	12	28	11

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3856	Mahogany-UL VY LT	278	109	264	103	238	93
3857	Rosewood-DK	569	224	542	213	488	192
3858	Rosewood-MD	249	98	237	93	213	83
3859	Rosewood-LT	80	31	76	29	68	26
3860	Cocoa	86	33	82	32	74	29
3861	Cocoa-LT	49	19	47	18	42	16
3862	Mocha Beige-DK	64	25	61	24	55	21
3863	Mocha Beige-MD	19	7	18	7	16	6
3864	Mocha Beige-LT	33	12	32	12	29	11
3865	Winter White	288	113	274	107	247	97

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	479	187	399	156	200	78
208	Lavender-VY DK	52	20	44	17	22	8
210	Lavender-MD	32	13	27	11	14	5
211	Lavender-LT	110	43	92	36	46	18
224	Shell Pink-VY LT	308	121	257	101	128	50
300	Mahogany-VY DK	20423	8039	17019	6699	8510	3350
301	Mahogany-MD	4669	1838	3891	1532	1946	766
317	Pewter Gray	61	23	51	20	26	10
318	Steel Gray-LT	232	90	194	75	97	38
341	Blue Violet-LT	133	52	111	44	56	22
347	Salmon-VY DK	1006	396	839	330	419	165
350	Coral-MD	63	23	53	20	26	10
352	Coral-LT	70	27	59	23	29	11
353	Peach	391	153	326	128	163	64
355	Terra Cotta-DK	1615	635	1346	530	673	265
356	Terra Cotta-MD	234	92	195	77	98	38
400	Mahogany-DK	8001	3150	6668	2625	3334	1313
402	Mahogany-VY LT	682	268	569	224	284	112
407	Desert Sand-DK	115	45	96	38	48	19
414	Steel Gray-DK	94	36	78	30	39	15
415	Pearl Gray	149	58	125	48	62	24
420	Hazelnut Brown-DK	4048	1593	3374	1328	1687	664
433	Brown-MD	4561	1795	3801	1496	1901	748
434	Brown-LT	2907	1143	2423	953	1211	476
435	Brown-VY LT	2002	787	1668	656	834	328
436	Tan	549	216	458	180	229	90
437	Tan-LT	704	275	587	230	293	115
451	Shell Gray-DK	88	34	74	29	37	14
452	Shell Gray-MD	68	25	57	21	29	11
453	Shell Gray-LT	67	25	56	21	28	11
632	Desert Sand-UL VY DK	880	346	734	288	367	144
645	Beaver Gray-VY DK	65	25	54	21	27	11
647	Beaver Gray-MD	22	7	18	6	9	3
680	Old Gold-DK	67	25	56	21	28	11
720	Orange Spice-DK	2480	976	2067	813	1034	407
721	Orange Spice-MD	52	20	44	17	22	8
722	Orange Spice-LT	52	20	44	17	22	8
741	Tangerine-MD	2488	979	2073	816	1037	408
743	Yellow -MD	31	11	26	9	13	5
744	Yellow -Pale	95	36	80	30	40	15
745	Yellow -LT Pale	115	45	96	38	48	19
746	Off White	252	99	210	83	105	41

754	Peach-LT	194	76	162	63	81	32
758	Terra Cotta-VY LT	1058	416	882	347	441	173
760	Salmon	23	9	20	8	10	4
761	Salmon-LT	382	149	318	125	159	62
762	Pearl Gray-VY LT	104	40	87	33	44	17
780	Topaz-UL VY DK	5292	2083	4410	1736	2205	868
782	Topaz-DK	5468	2153	4557	1794	2279	897
783	Topaz-MD	176	68	147	57	74	29
793	Cornflower Blue-MD	81	31	68	26	34	13
801	Coffee Brown-DK	1787	702	1490	585	745	293
814	Garnet-DK	6259	2462	5216	2052	2608	1026
829	Golden Olive-VY DK	349	137	291	114	146	57
838	Beige Brown-VY DK	2387	940	1989	783	995	392
839	Beige Brown-DK	655	257	546	215	273	107
840	Beige Brown-MD	56	22	47	18	23	9
842	Beige Brown-VY LT	36	13	30	11	15	5
844	Beaver Brown-UL DK	38	14	32	12	16	6
869	Hazelnut Brown-VY DK	1557	612	1298	510	649	255
898	Coffee Brown-VY DK	3924	1544	3270	1287	1635	644
900	Burnt Orange-DK	167	65	140	54	70	27
918	Red Copper-DK	662	259	552	216	276	108
919	Red Copper	423	166	353	138	176	69
920	Copper-MD	3697	1454	3081	1212	1541	606
921	Copper	598	234	498	195	249	98
922	Copper-LT	517	202	431	168	215	84
938	Coffee Brown-UL DK	8248	3245	6873	2705	3437	1352
945	Tawny	140	54	117	45	59	23
946	Burnt Orange-MD	22	7	18	6	9	3
947	Burnt Orange	41	16	35	14	17	7
948	Peach-VY LT	103	40	86	33	43	17
950	Desert Sand-LT	349	137	291	114	146	57
951	Tawny-LT	52	20	44	17	22	8
963	Dusty Rose-UL VY LT	162	63	135	53	68	26
972	Canary-DK	148	58	123	48	62	24
975	Golden Brown-DK	2673	1051	2228	876	1114	438
976	Golden Brown-MD	439	173	366	144	183	72
977	Golden Brown-LT	160	63	134	53	67	26
3021	Brown Gray-VY DK	103	40	86	33	43	17
3041	Antique Violet-MD	106	41	89	35	44	17
3042	Antique Violet-LT	67	25	56	21	28	11
3064	Desert Sand	133	52	111	44	56	22
3340	Apricot-MD	41	16	35	14	17	7
3371	Black Brown	15116	5951	12597	4959	6299	2480
3689	Mauve-LT	139	54	116	45	58	23
3712	Salmon-MD	83	32	69	27	35	14
3713	Salmon-VY LT	140	54	117	45	59	23
3721	Shell Pink-DK	351	137	293	114	146	57
3722	Shell Pink-MD	40	14	33	12	17	6
3733	Dusty Rose	29	11	24	9	12	5
3740	Antique Violet-DK	85	32	71	27	35	14
3743	Antique Violet-VY LT	144	56	120	47	60	23
3770	Tawny-VY LT	72	27	60	23	30	11
3772	Desert Sand-VY DK	356	139	297	116	149	58
3774	Desert Sand-VY LT	101	40	84	33	42	17
3776	Mahogany-LT	934	367	779	306	389	153
3778	Terra Cotta-LT	520	203	434	170	217	85
3779	Terra Cotta-UL VY LT	574	225	479	188	239	94
3790	Beige Gray-UL DK	49	18	41	15	20	8
3802	Antique Mauve-VY DK	144	56	120	47	60	23

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3823	Yellow -UL Pale	81	31	68	26	34	13
3824	Apricot-LT	83	32	69	27	35	14
3825	Pumpkin-Pale	248	97	207	81	104	41
3826	Golden Brown	1969	774	1641	645	821	323
3827	Golden Brown-Pale	52	20	44	17	22	8
3828	Hazelnut Brown	337	131	281	110	140	55
3829	Old Gold-VY DK	371	146	309	122	155	61
3830	Terra Cotta-MD	623	245	519	204	260	102
3834	Grape-DK	47	18	39	15	20	8
3852	Straw -VY DK	211	83	176	69	88	35
3853	Autumn Gold-DK	108	41	90	35	45	17
3854	Autumn Gold-MD	50	20	42	17	21	8
3856	Mahogany-UL VY LT	428	167	357	140	179	70
3857	Rosewood-DK	878	346	732	288	366	144
3858	Rosewood-MD	383	149	320	125	160	62
3859	Rosewood-LT	122	47	102	39	51	20
3860	Cocoa	133	52	111	44	56	22
3861	Cocoa-LT	76	29	63	24	32	12
3862	Mocha Beige-DK	99	38	83	32	41	16
3863	Mocha Beige-MD	29	11	24	9	12	5
3864	Mocha Beige-LT	52	20	44	17	22	8
3865	Winter White	445	175	371	146	185	73

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	192	75	184	72	177	69
208	Lavender-VY DK	21	8	20	8	19	7
210	Lavender-MD	13	5	12	5	12	5
211	Lavender-LT	44	17	42	17	41	16
224	Shell Pink-VY LT	123	48	118	46	114	45
300	Mahogany-VY DK	8169	3216	7855	3092	7564	2977
301	Mahogany-MD	1868	735	1796	707	1729	681
317	Pewter Gray	24	9	24	9	23	9
318	Steel Gray-LT	93	36	89	35	86	33
341	Blue Violet-LT	53	21	51	20	49	19
347	Salmon-VY DK	402	158	387	152	373	147
350	Coral-MD	25	9	24	9	23	9
352	Coral-LT	28	11	27	10	26	10
353	Peach	156	61	150	59	145	57
355	Terra Cotta-DK	646	254	621	244	598	235
356	Terra Cotta-MD	94	37	90	35	87	34
400	Mahogany-DK	3200	1260	3077	1212	2963	1167
402	Mahogany-VY LT	273	107	262	103	253	99
407	Desert Sand-DK	46	18	44	17	43	17
414	Steel Gray-DK	37	14	36	14	35	13
415	Pearl Gray	60	23	57	22	55	21
420	Hazelnut Brown-DK	1619	637	1557	613	1499	590
433	Brown-MD	1824	718	1754	690	1689	665
434	Brown-LT	1163	457	1118	440	1077	423
435	Brown-VY LT	801	315	770	303	741	291
436	Tan	220	86	211	83	203	80
437	Tan-LT	282	110	271	106	261	102
451	Shell Gray-DK	35	14	34	13	33	13
452	Shell Gray-MD	27	10	26	10	25	9
453	Shell Gray-LT	27	10	26	10	25	9

632	Desert Sand-UL VY DK	352	138	339	133	326	128
645	Beaver Gray-VY DK	26	10	25	10	24	9
647	Beaver Gray-MD	9	3	8	3	8	3
680	Old Gold-DK	27	10	26	10	25	9
720	Orange Spice-DK	992	390	954	375	919	361
721	Orange Spice-MD	21	8	20	8	19	7
722	Orange Spice-LT	21	8	20	8	19	7
741	Tangerine-MD	995	392	957	377	921	363
743	Yellow -MD	12	4	12	4	11	4
744	Yellow -Pale	38	14	37	14	35	13
745	Yellow -LT Pale	46	18	44	17	43	17
746	Off White	101	40	97	38	93	37
754	Peach-LT	78	30	75	29	72	28
758	Terra Cotta-VY LT	423	166	407	160	392	154
760	Salmon	9	4	9	3	9	3
761	Salmon-LT	153	60	147	57	141	55
762	Pearl Gray-VY LT	42	16	40	15	39	15
780	Topaz-UL VY DK	2117	833	2035	801	1960	771
782	Topaz-DK	2187	861	2103	828	2025	797
783	Topaz-MD	71	27	68	26	65	25
793	Cornflower Blue-MD	32	12	31	12	30	11
801	Coffee Brown-DK	715	281	687	270	662	260
814	Garnet-DK	2503	985	2407	947	2318	912
829	Golden Olive-VY DK	140	55	134	53	129	51
838	Beige Brown-VY DK	955	376	918	361	884	348
839	Beige Brown-DK	262	103	252	99	243	95
840	Beige Brown-MD	22	9	21	8	21	8
842	Beige Brown-VY LT	14	5	14	5	13	5
844	Beaver Brown-UL DK	15	6	15	6	14	5
869	Hazelnut Brown-VY DK	623	245	599	235	577	227
898	Coffee Brown-VY DK	1570	618	1509	594	1453	572
900	Burnt Orange-DK	67	26	64	25	62	24
918	Red Copper-DK	265	104	255	100	245	96
919	Red Copper	169	66	163	64	157	61
920	Copper-MD	1479	582	1422	559	1369	539
921	Copper	239	94	230	90	221	87
922	Copper-LT	207	81	199	78	191	75
938	Coffee Brown-UL DK	3299	1298	3172	1248	3055	1202
945	Tawny	56	22	54	21	52	20
946	Burnt Orange-MD	9	3	8	3	8	3
947	Burnt Orange	17	6	16	6	15	6
948	Peach-VY LT	41	16	39	15	38	15
950	Desert Sand-LT	140	55	134	53	129	51
951	Tawny -LT	21	8	20	8	19	7
963	Dusty Rose-UL VY LT	65	25	62	24	60	23
972	Canary-DK	59	23	57	22	55	21
975	Golden Brown-DK	1069	420	1028	404	990	389
976	Golden Brown-MD	176	69	169	66	163	64
977	Golden Brown-LT	64	25	62	24	59	23
3021	Brown Gray -VY DK	41	16	39	15	38	15
3041	Antique Violet-MD	42	17	41	16	39	15
3042	Antique Violet-LT	27	10	26	10	25	9
3064	Desert Sand	53	21	51	20	49	19
3340	Apricot-MD	17	6	16	6	15	6
3371	Black Brown	6047	2380	5814	2289	5599	2204
3689	Mauve-LT	55	22	53	21	51	20
3712	Salmon-MD	33	13	32	12	31	12
3713	Salmon-VY LT	56	22	54	21	52	20
3721	Shell Pink-DK	140	55	135	53	130	51

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3722	Shell Pink-MD	16	6	15	6	15	5
3733	Dusty Rose	12	4	11	4	11	4
3740	Antique Violet-DK	34	13	33	12	31	12
3743	Antique Violet-VY LT	58	22	55	21	53	21
3770	Tawny-VY LT	29	11	28	10	27	10
3772	Desert Sand-VY DK	143	55	137	53	132	51
3774	Desert Sand-VY LT	40	16	39	15	37	15
3776	Mahogany-LT	374	147	359	141	346	136
3778	Terra Cotta-LT	208	81	200	78	193	75
3779	Terra Cotta-UL VY LT	230	90	221	87	213	83
3790	Beige Gray-UL DK	19	7	19	7	18	7
3802	Antique Mauve-VY DK	58	22	55	21	53	21
3823	Yellow-UL Pale	32	12	31	12	30	11
3824	Apricot-LT	33	13	32	12	31	12
3825	Pumpkin-Pale	99	39	96	37	92	36
3826	Golden Brown	788	310	757	298	729	287
3827	Golden Brown-Pale	21	8	20	8	19	7
3828	Hazelnut Brown	135	53	129	51	125	49
3829	Old Gold-VY DK	148	58	143	56	137	54
3830	Terra Cotta-MD	249	98	240	94	231	91
3834	Grape-DK	19	7	18	7	17	7
3852	Straw-VY DK	84	33	81	32	78	31
3853	Autumn Gold-DK	43	17	42	16	40	15
3854	Autumn Gold-MD	20	8	19	8	19	7
3856	Mahogany-UL VY LT	171	67	165	64	159	62
3857	Rosewood-DK	351	138	338	133	325	128
3858	Rosewood-MD	153	60	147	57	142	55
3859	Rosewood-LT	49	19	47	18	45	17
3860	Cocoa	53	21	51	20	49	19
3861	Cocoa-LT	30	12	29	11	28	11
3862	Mocha Beige-DK	40	15	38	15	37	14
3863	Mocha Beige-MD	12	4	11	4	11	4
3864	Mocha Beige-LT	21	8	20	8	19	7
3865	Winter White	178	70	171	67	165	65

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	171	67	160	62	150	59
208	Lavender-VY DK	19	7	17	7	16	6
210	Lavender-MD	12	5	11	4	10	4
211	Lavender-LT	39	15	37	14	34	14
224	Shell Pink-VY LT	110	43	103	40	96	38
300	Mahogany-VY DK	7294	2871	6808	2680	6382	2512
301	Mahogany-MD	1668	656	1556	613	1459	574
317	Pewter Gray	22	8	20	8	19	7
318	Steel Gray-LT	83	32	77	30	73	28
341	Blue Violet-LT	48	19	44	17	42	16
347	Salmon-VY DK	359	141	335	132	314	124
350	Coral-MD	23	8	21	8	20	7
352	Coral-LT	25	10	23	9	22	8
353	Peach	140	55	130	51	122	48
355	Terra Cotta-DK	577	227	538	212	505	199
356	Terra Cotta-MD	84	33	78	31	73	29
400	Mahogany-DK	2858	1125	2667	1050	2500	984
402	Mahogany-VY LT	244	96	227	89	213	84
407	Desert Sand-DK	41	16	38	15	36	14

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414	Steel Gray-DK	33	13	31	12	29	11
415	Pearl Gray	53	21	50	19	47	18
420	Hazelnut Brown-DK	1446	569	1349	531	1265	498
433	Brown-MD	1629	641	1520	598	1425	561
434	Brown-LT	1038	408	969	381	908	357
435	Brown-VY LT	715	281	667	262	626	246
436	Tan	196	77	183	72	172	68
437	Tan-LT	251	98	235	92	220	86
451	Shell Gray-DK	32	12	29	11	28	11
452	Shell Gray-MD	24	9	23	8	21	8
453	Shell Gray-LT	24	9	22	8	21	8
632	Desert Sand-UL VY DK	314	123	293	115	275	108
645	Beaver Gray-VY DK	23	9	22	8	20	8
647	Beaver Gray-MD	8	3	7	2	7	2
680	Old Gold-DK	24	9	22	8	21	8
720	Orange Spice-DK	886	348	827	325	775	305
721	Orange Spice-MD	19	7	17	7	16	6
722	Orange Spice-LT	19	7	17	7	16	6
741	Tangerine-MD	888	350	829	326	777	306
743	Yellow -MD	11	4	10	4	10	3
744	Yellow -Pale	34	13	32	12	30	11
745	Yellow -LT Pale	41	16	38	15	36	14
746	Off White	90	35	84	33	79	31
754	Peach-LT	69	27	65	25	61	24
758	Terra Cotta-VY LT	378	149	353	139	331	130
760	Salmon	8	3	8	3	7	3
761	Salmon-LT	136	53	127	50	119	47
762	Pearl Gray-VY LT	37	14	35	13	33	12
780	Topaz-UL VY DK	1890	744	1764	694	1654	651
782	Topaz-DK	1953	769	1823	718	1709	673
783	Topaz-MD	63	24	59	23	55	21
793	Cornflower Blue-MD	29	11	27	10	25	10
801	Coffee Brown-DK	638	251	596	234	559	219
814	Garnet-DK	2235	879	2086	821	1956	770
829	Golden Olive-VY DK	125	49	116	46	109	43
838	Beige Brown-VY DK	852	336	796	313	746	294
839	Beige Brown-DK	234	92	218	86	205	80
840	Beige Brown-MD	20	8	19	7	17	7
842	Beige Brown-VY LT	13	5	12	4	11	4
844	Beaver Brown-UL DK	14	5	13	5	12	5
869	Hazelnut Brown-VY DK	556	219	519	204	487	191
898	Coffee Brown-VY DK	1401	552	1308	515	1226	483
900	Burnt Orange-DK	60	23	56	22	52	20
918	Red Copper-DK	237	93	221	86	207	81
919	Red Copper	151	59	141	55	132	52
920	Copper-MD	1320	519	1232	485	1155	455
921	Copper	213	84	199	78	187	73
922	Copper-LT	185	72	172	67	161	63
938	Coffee Brown-UL DK	2946	1159	2749	1082	2577	1014
945	Tawny	50	19	47	18	44	17
946	Burnt Orange-MD	8	3	7	2	7	2
947	Burnt Orange	15	6	14	5	13	5
948	Peach-VY LT	37	14	34	13	32	12
950	Desert Sand-LT	125	49	116	46	109	43
951	Tawny-LT	19	7	17	7	16	6
963	Dusty Rose-UL VY LT	58	23	54	21	51	20
972	Canary-DK	53	21	49	19	46	18
975	Golden Brown-DK	955	375	891	350	835	329
976	Golden Brown-MD	157	62	146	58	137	54

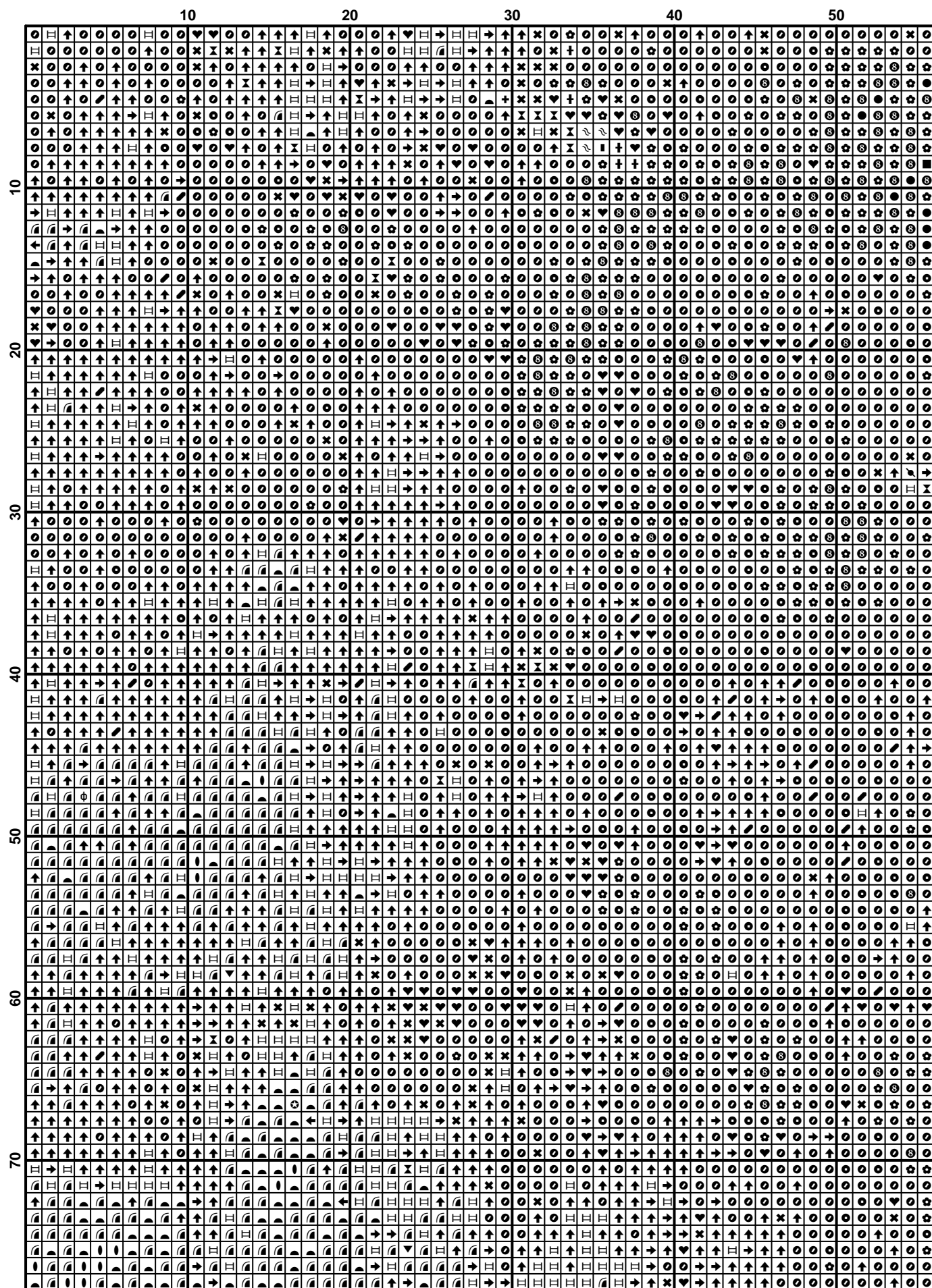
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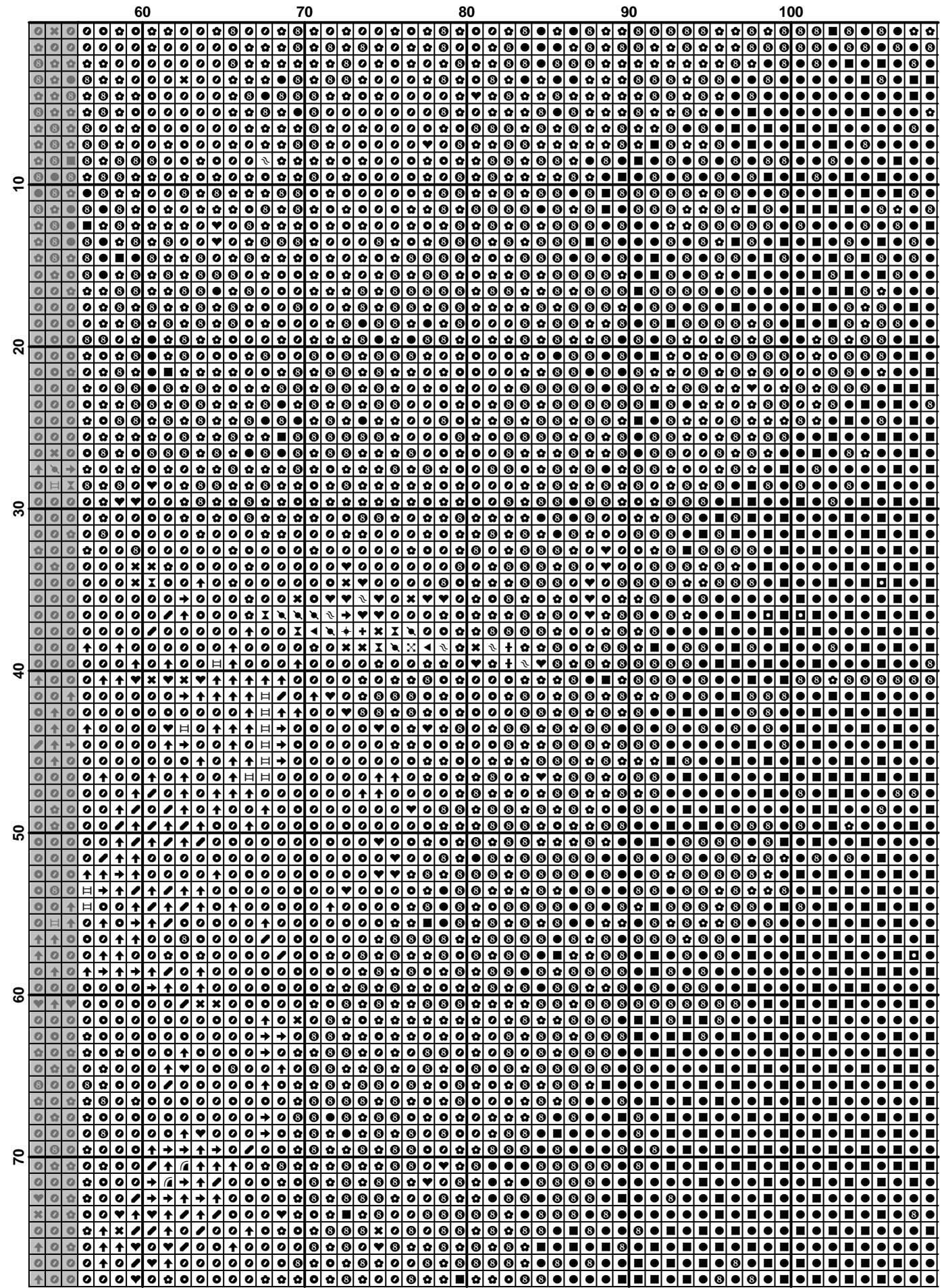
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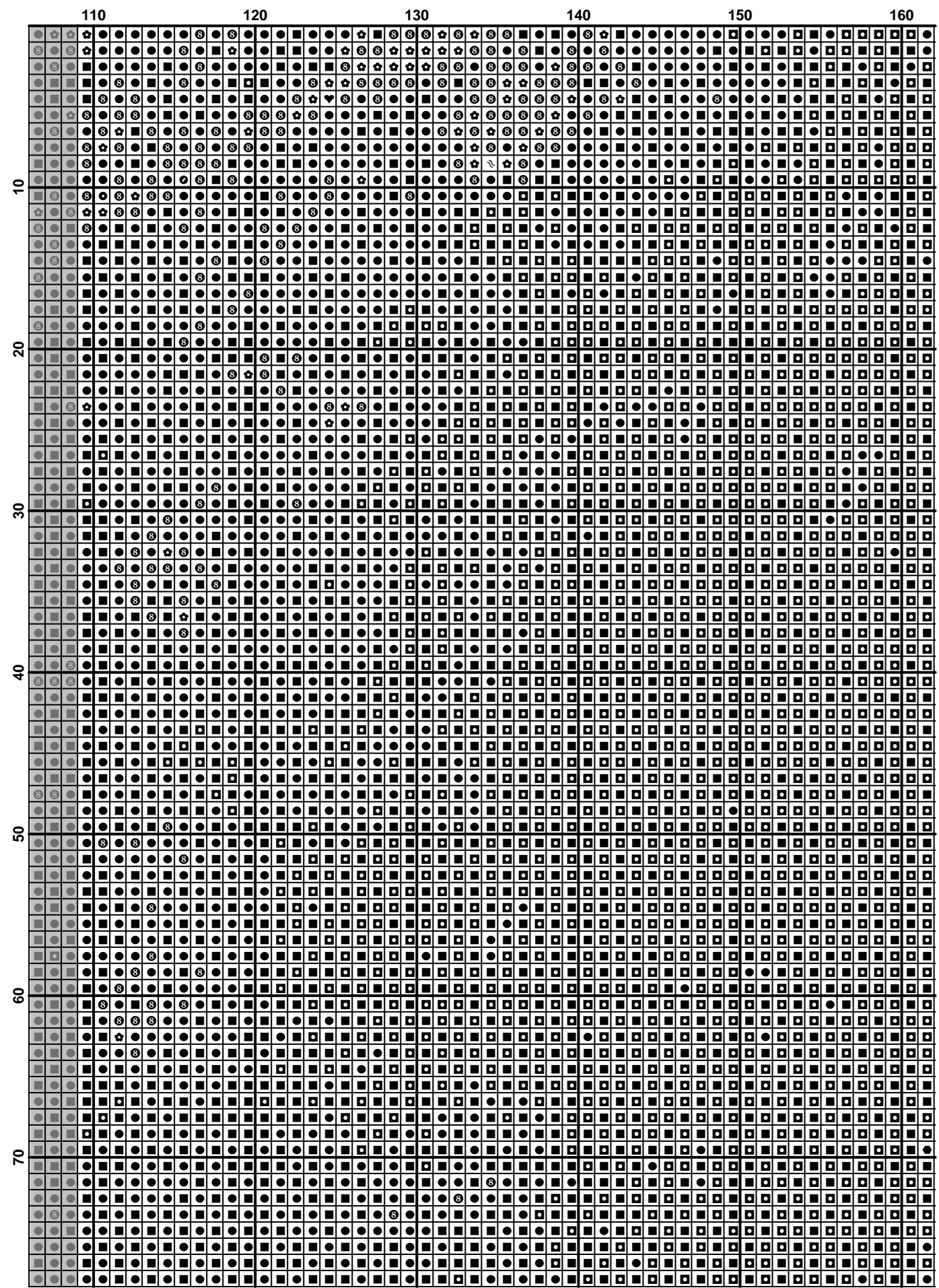
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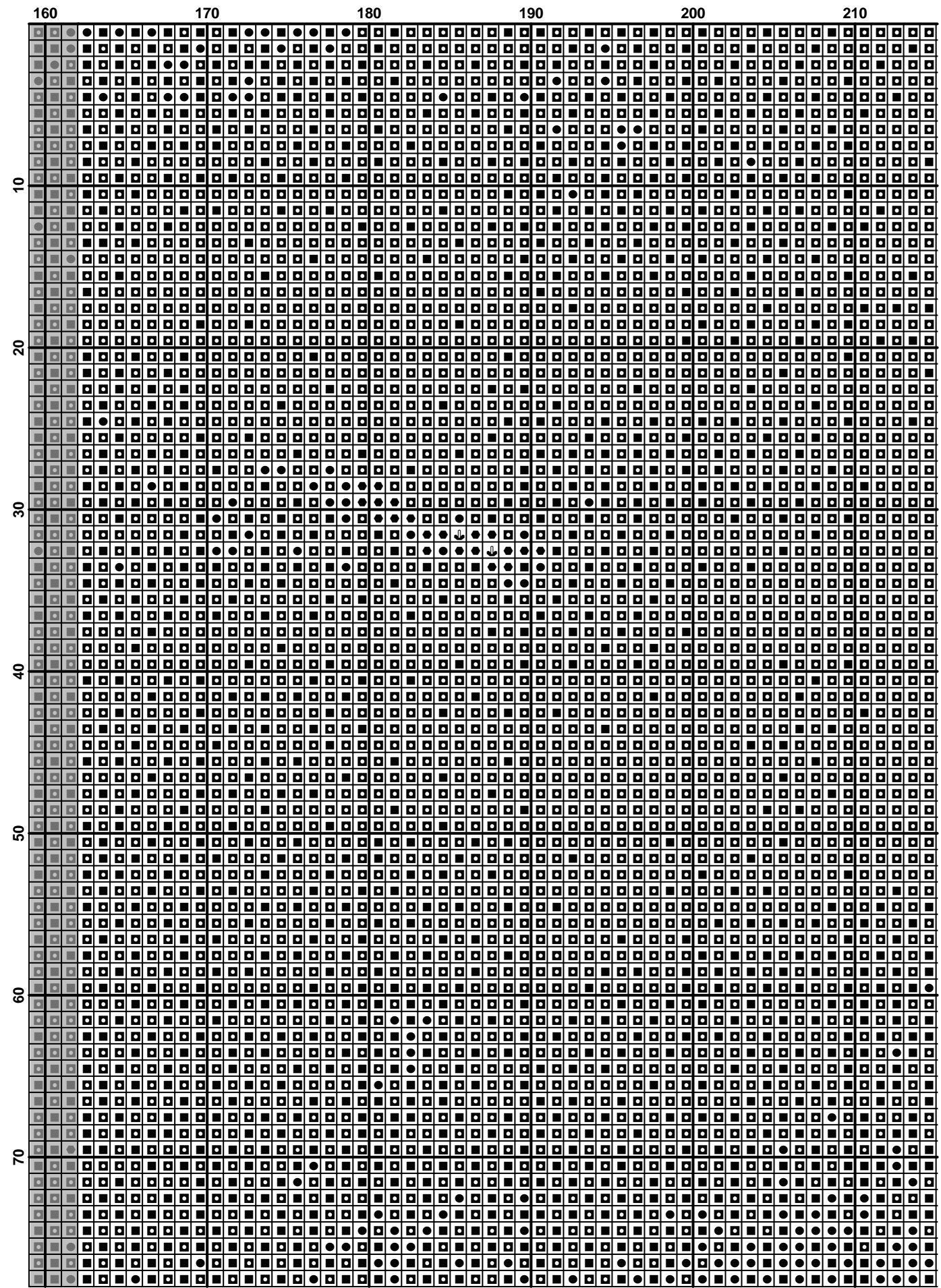
977	Golden Brown-LT	57	23	53	21	50	20
3021	Brown Gray -VY DK	37	14	34	13	32	12
3041	Antique Violet-MD	38	15	35	14	33	13
3042	Antique Violet-LT	24	9	22	8	21	8
3064	Desert Sand	48	19	44	17	42	16
3340	Apricot-MD	15	6	14	5	13	5
3371	Black Brown	5399	2125	5039	1984	4724	1860
3689	Mauve-LT	50	19	46	18	43	17
3712	Salmon-MD	30	12	28	11	26	10
3713	Salmon-VY LT	50	19	47	18	44	17
3721	Shell Pink-DK	125	49	117	46	110	43
3722	Shell Pink-MD	14	5	13	5	12	5
3733	Dusty Rose	10	4	10	4	9	3
3740	Antique Violet-DK	30	12	28	11	26	10
3743	Antique Violet-VY LT	51	20	48	19	45	17
3770	Tawny -VY LT	26	10	24	9	23	8
3772	Desert Sand-VY DK	127	50	119	46	111	43
3774	Desert Sand-VY LT	36	14	34	13	32	12
3776	Mahogany-LT	334	131	311	122	292	115
3778	Terra Cotta-LT	186	73	173	68	163	64
3779	Terra Cotta-UL VY LT	205	80	191	75	179	70
3790	Beige Gray-UL DK	17	6	16	6	15	6
3802	Antique Mauve-VY DK	51	20	48	19	45	17
3823	Yellow -UL Pale	29	11	27	10	25	10
3824	Apricot-LT	30	12	28	11	26	10
3825	Pumpkin-Pale	89	35	83	32	78	30
3826	Golden Brown	703	276	656	258	615	242
3827	Golden Brown-Pale	19	7	17	7	16	6
3828	Hazelnut Brown	120	47	112	44	105	41
3829	Old Gold-VY DK	132	52	124	49	116	46
3830	Terra Cotta-MD	222	87	208	82	195	77
3834	Grape-DK	17	6	16	6	15	6
3852	Straw -VY DK	75	30	70	28	66	26
3853	Autumn Gold-DK	39	15	36	14	34	13
3854	Autumn Gold-MD	18	7	17	7	16	6
3856	Mahogany-UL VY LT	153	60	143	56	134	52
3857	Rosewood-DK	314	123	293	115	275	108
3858	Rosewood-MD	137	53	128	50	120	47
3859	Rosewood-LT	44	17	41	16	38	15
3860	Cocoa	48	19	44	17	42	16
3861	Cocoa-LT	27	10	25	10	24	9
3862	Mocha Beige-DK	35	14	33	13	31	12
3863	Mocha Beige-MD	10	4	10	4	9	3
3864	Mocha Beige-LT	19	7	17	7	16	6
3865	Winter White	159	62	148	58	139	55

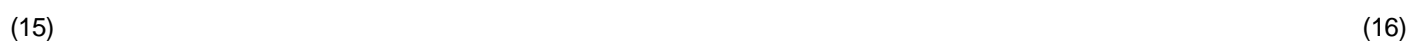


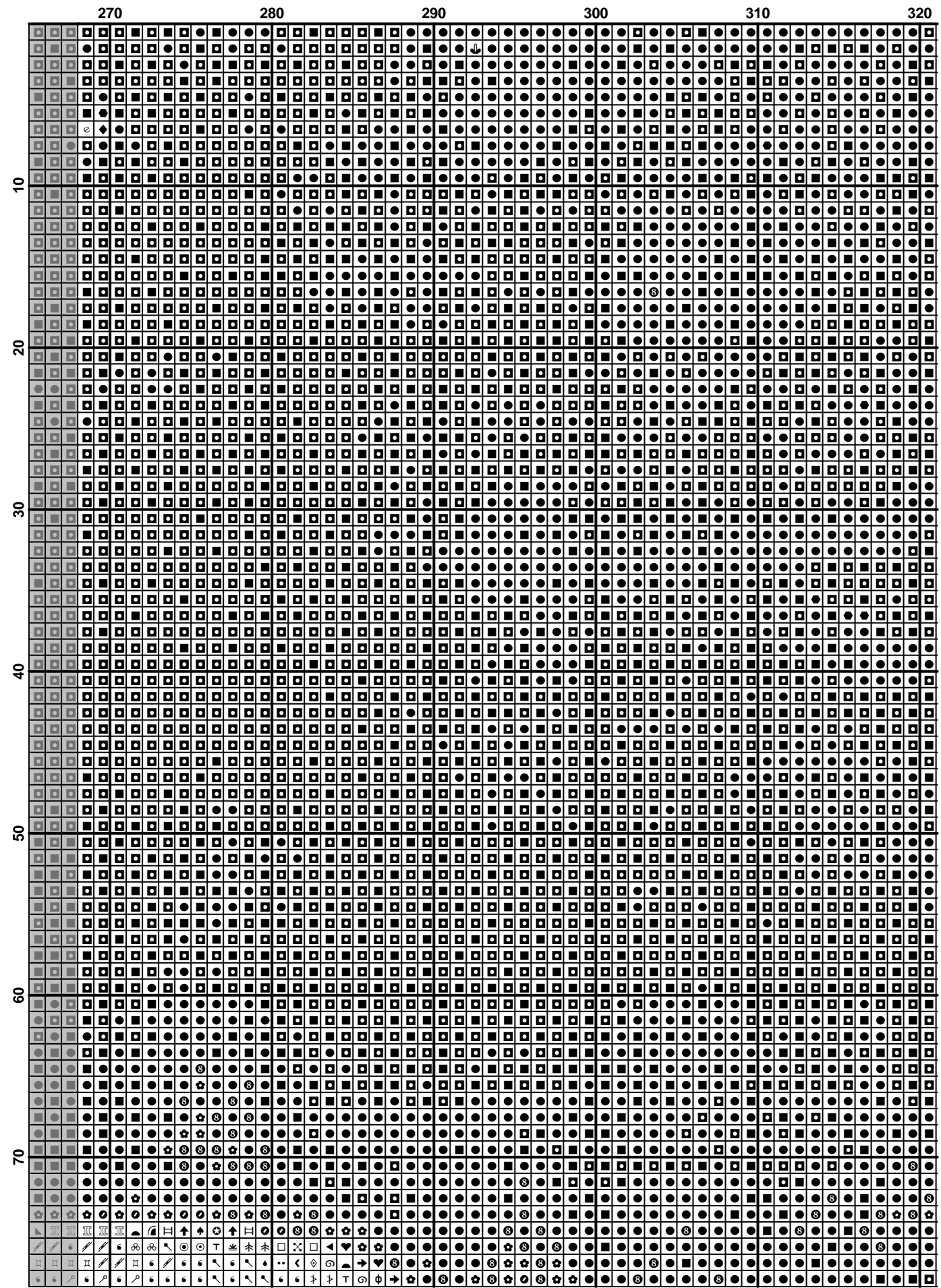


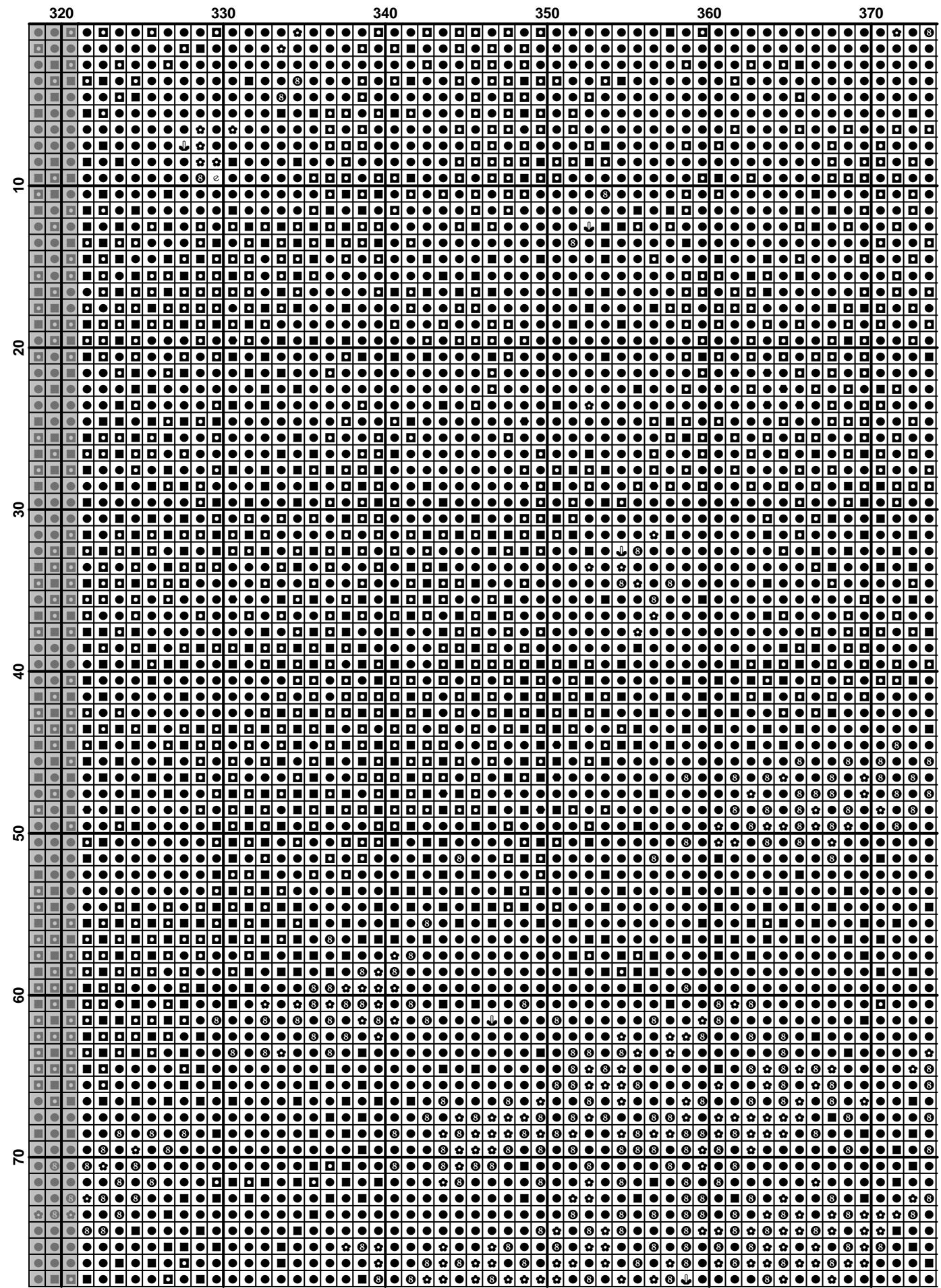




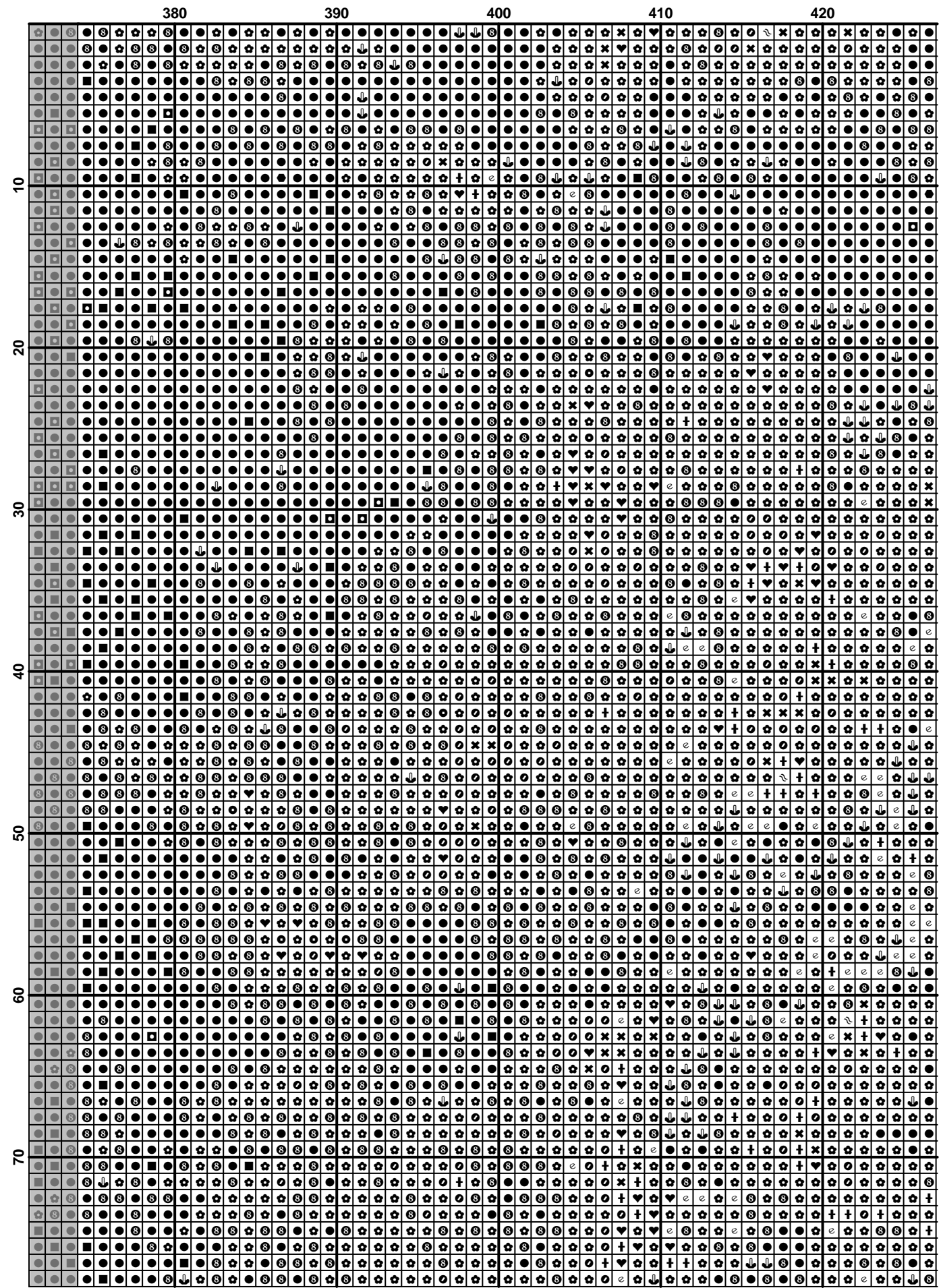




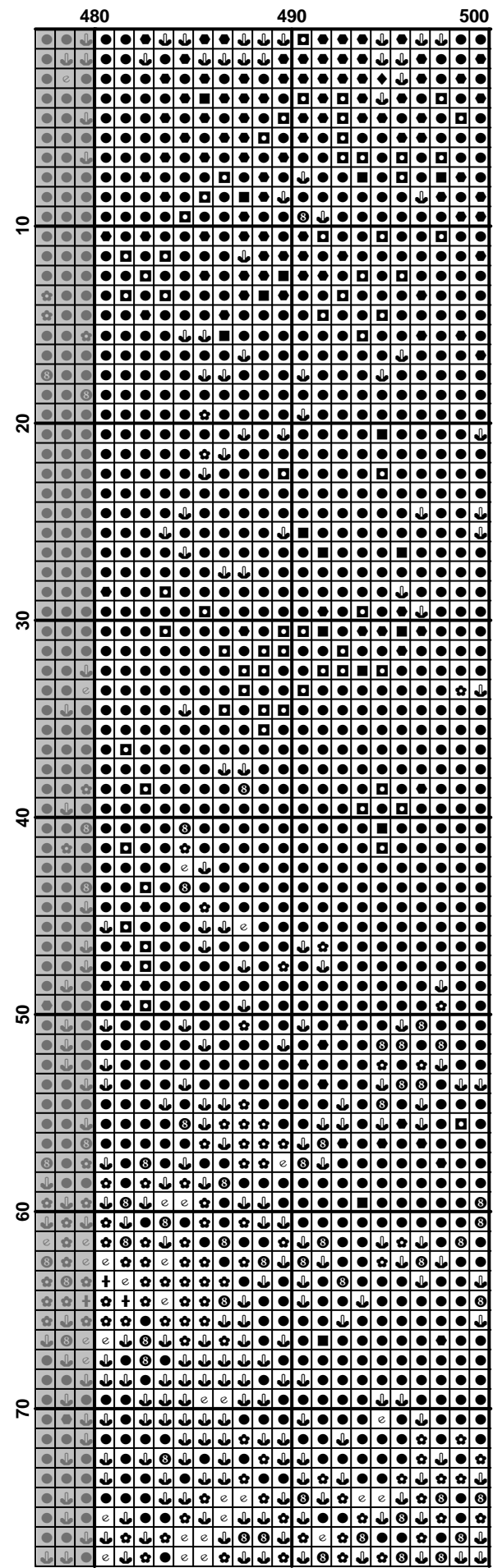


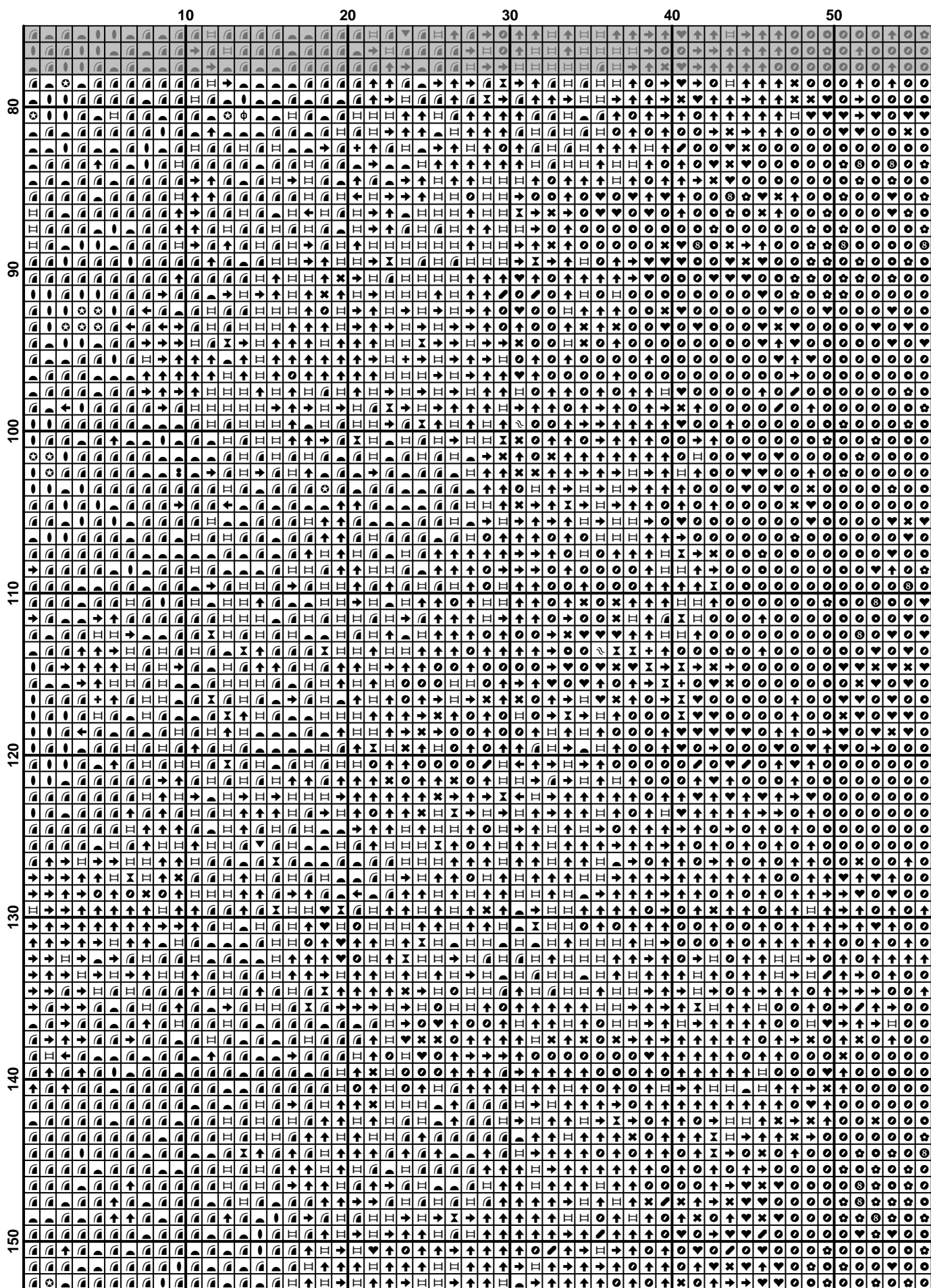


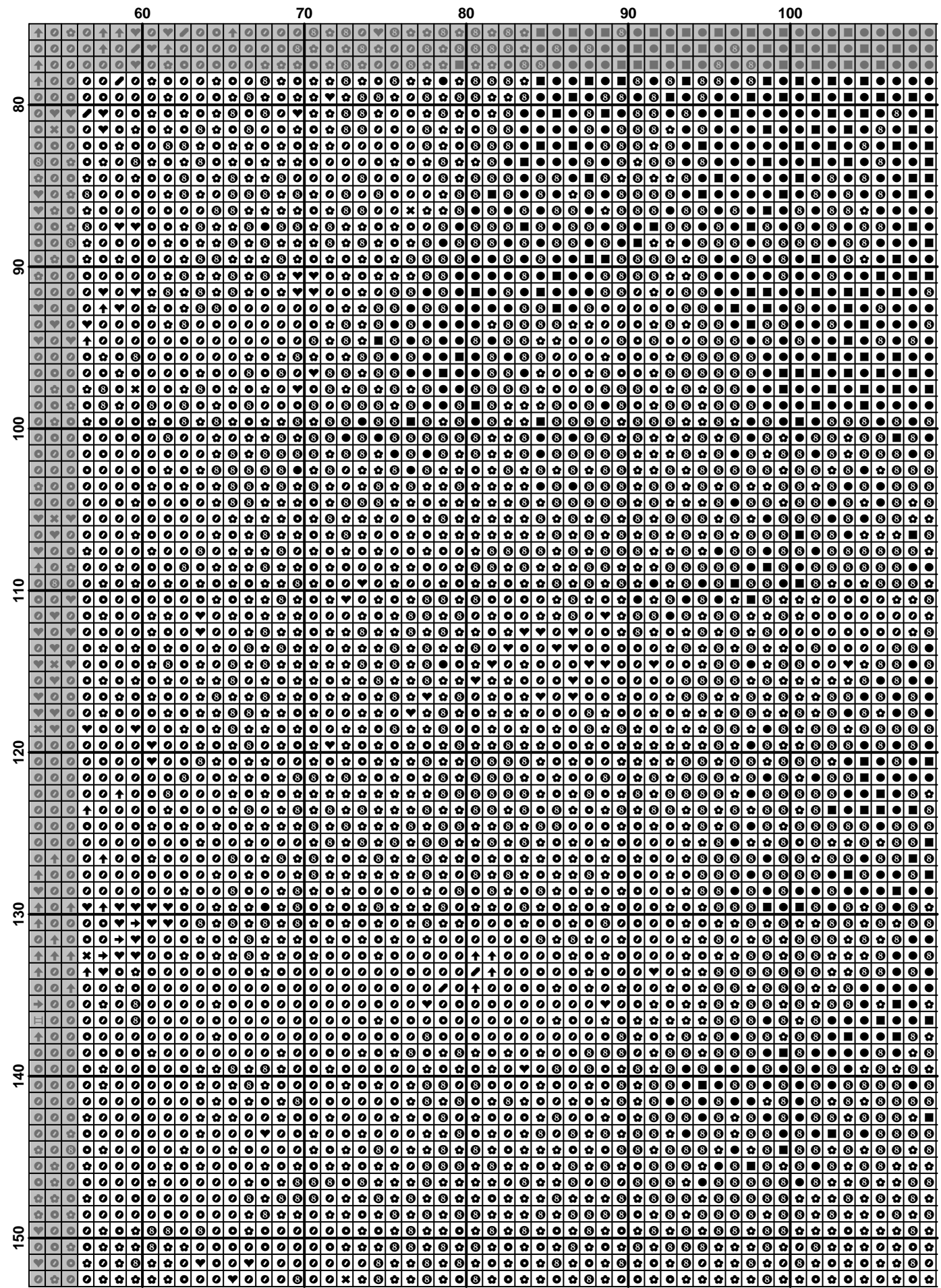


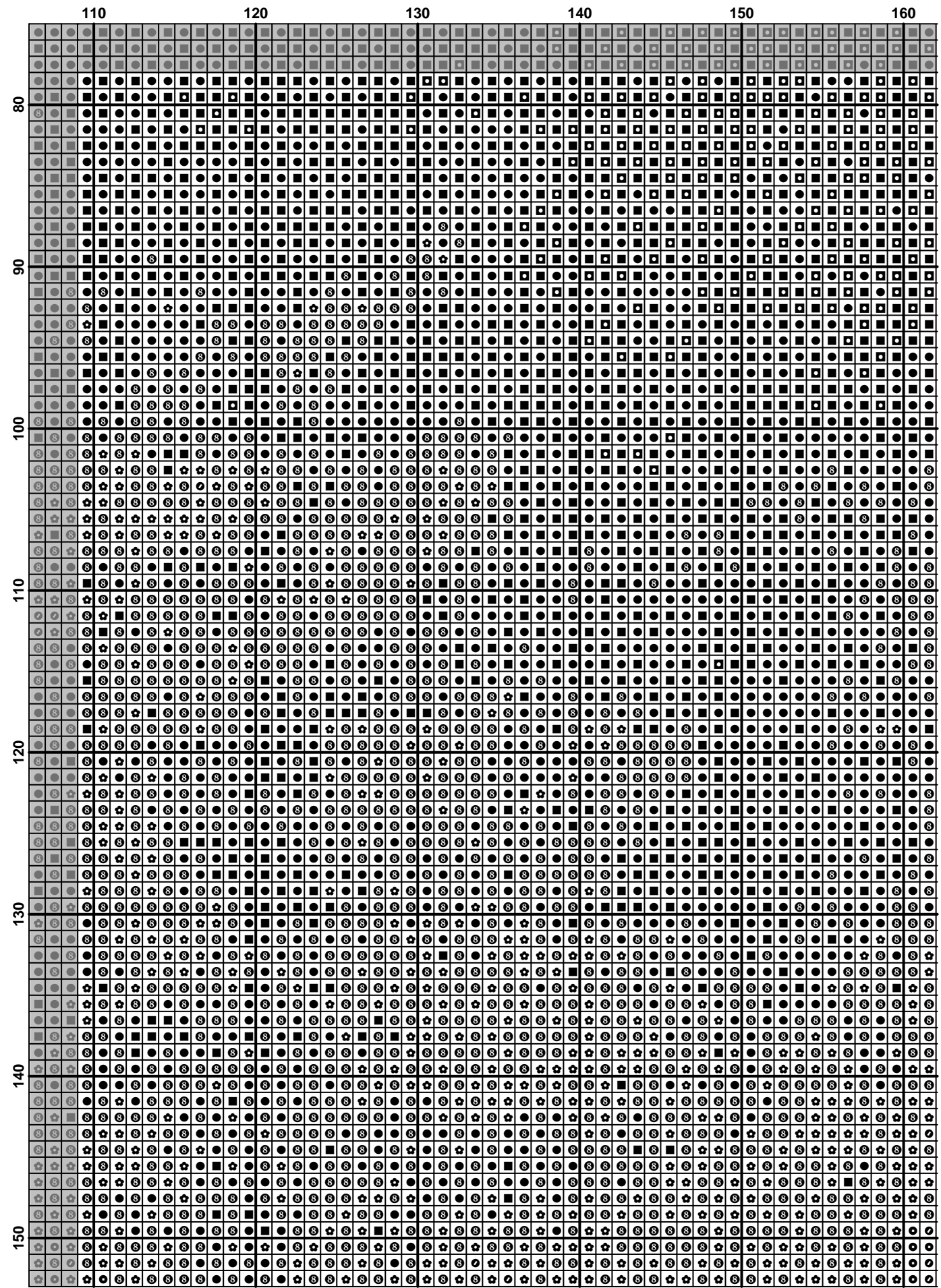


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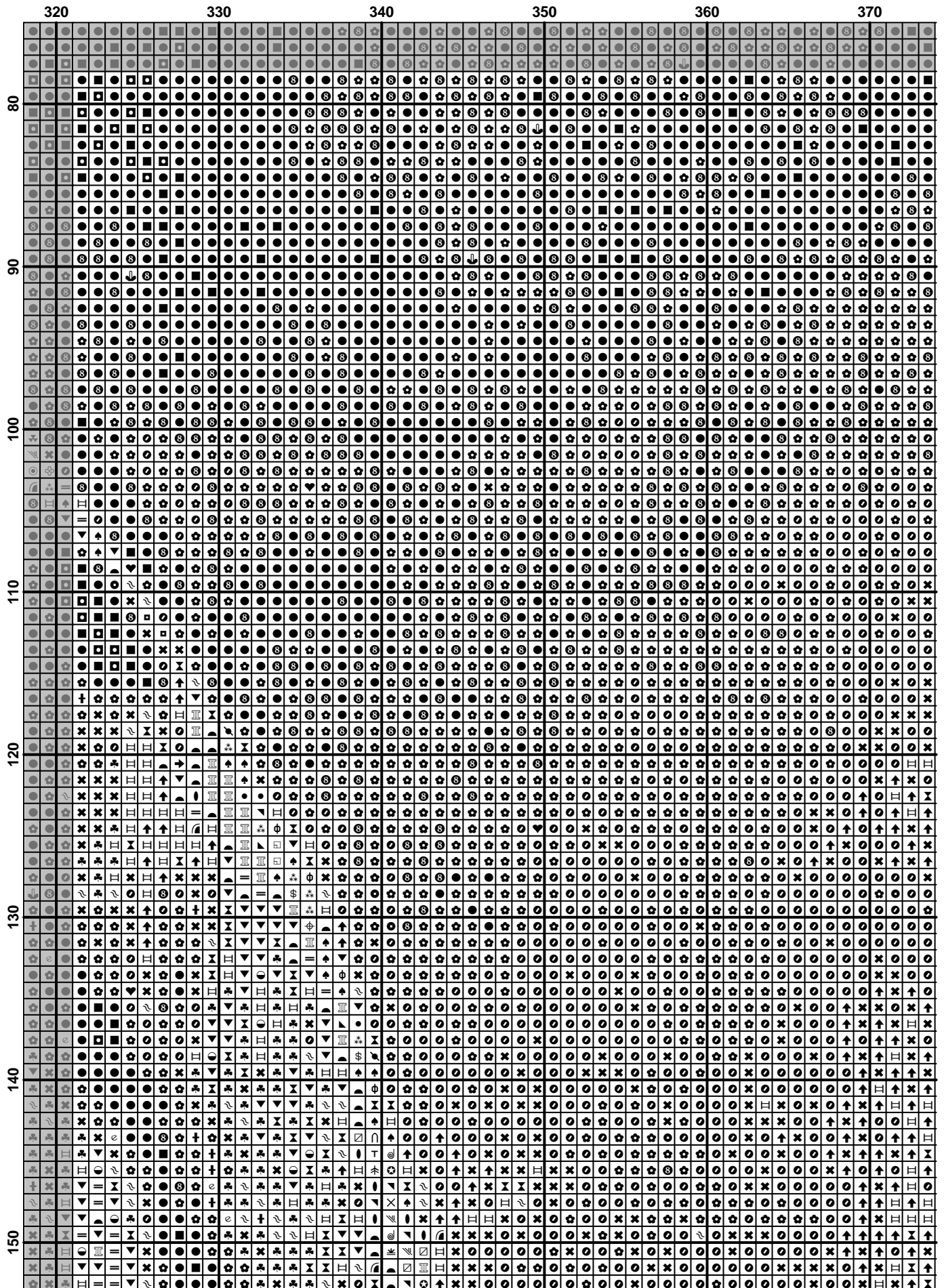


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	220	230	240	250	260
80					
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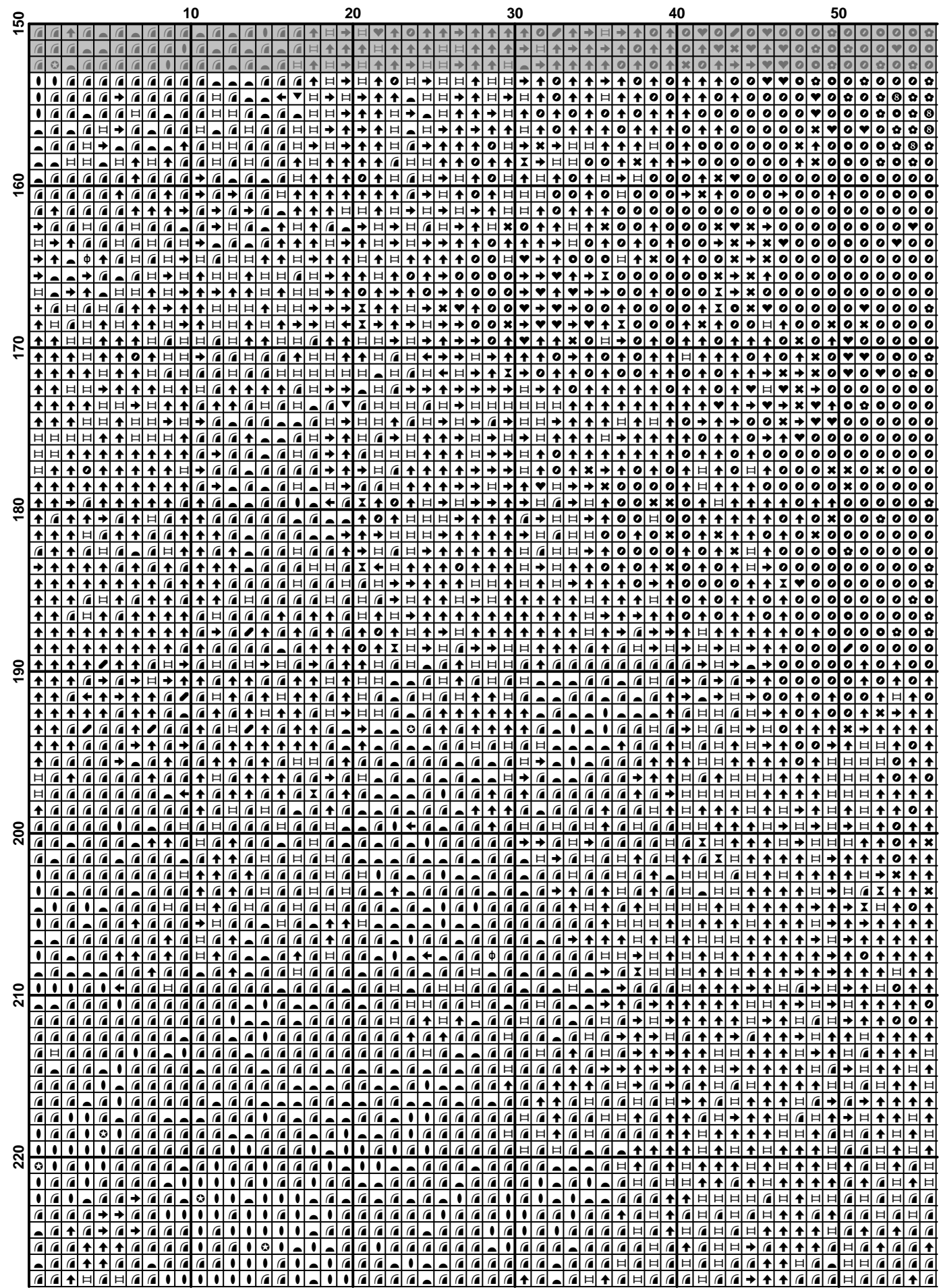
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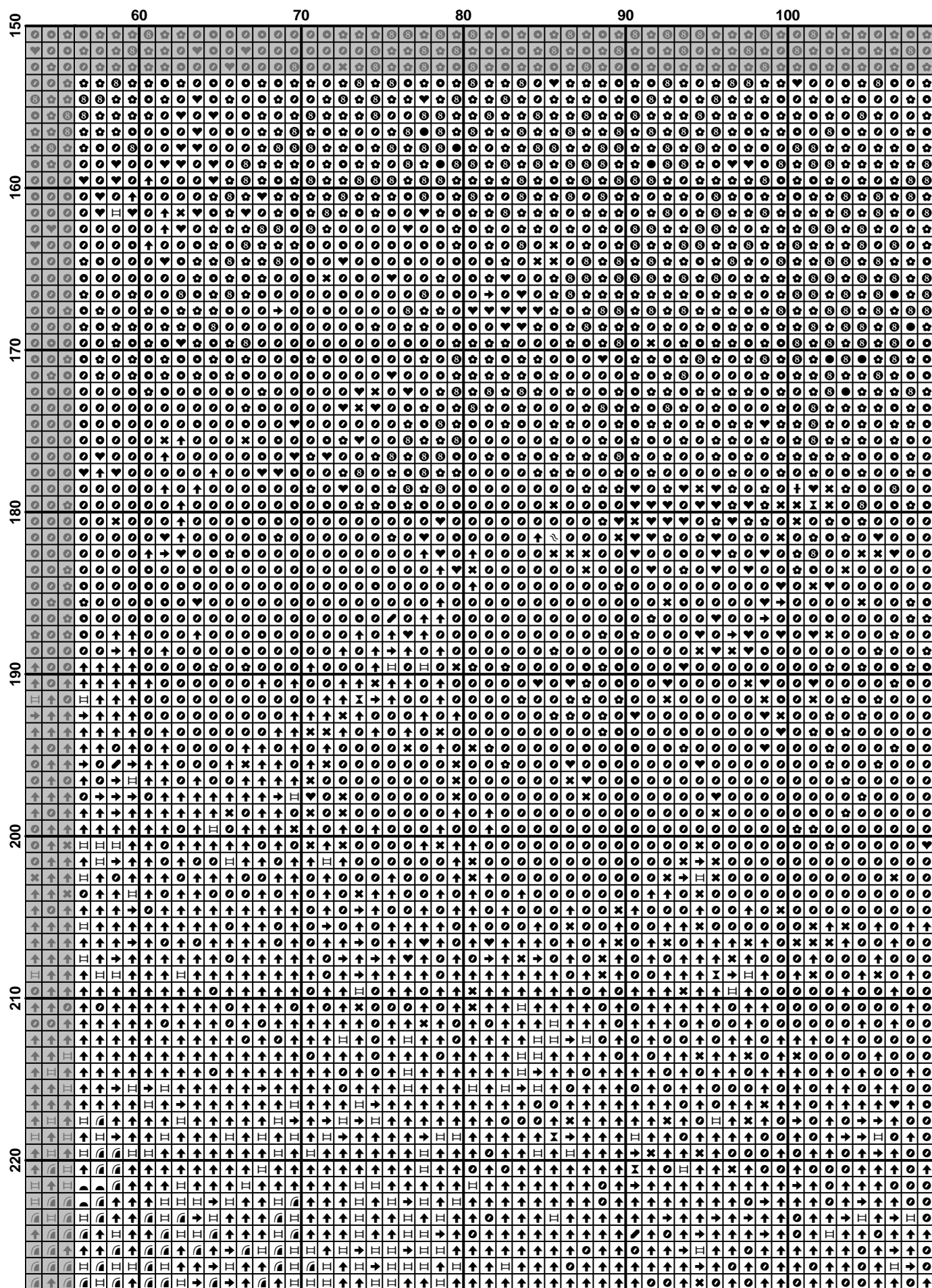
$$\quad \quad \quad (28) \quad \quad \quad (29)$$

(30)







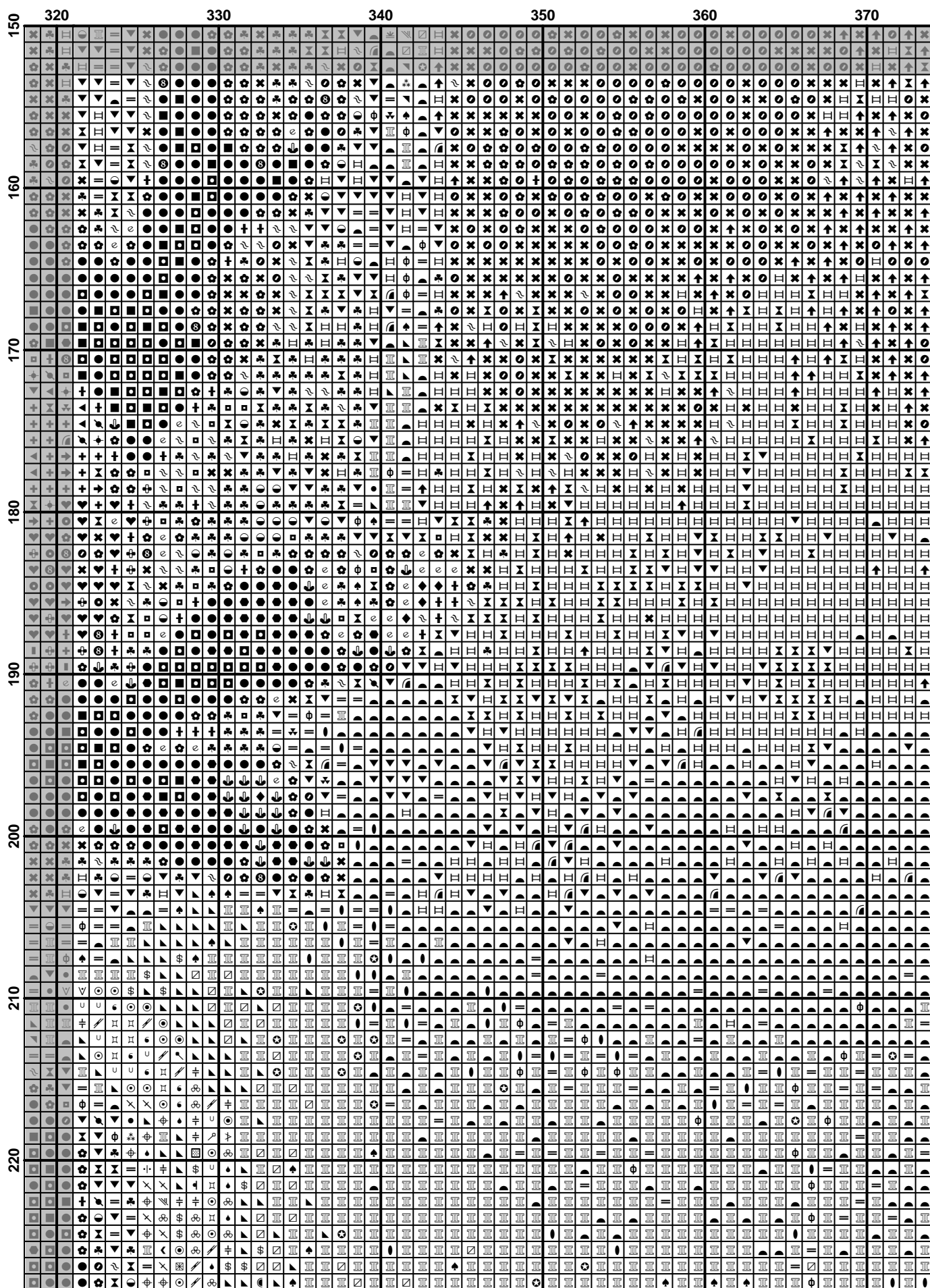


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170	⬆	⬆	⬆	⬆	⬆	⬆
180	⬆	⬆	⬆	⬆	⬆	⬆
190	⬆	⬆	⬆	⬆	⬆	⬆
200	⬆	⬆	⬆	⬆	⬆	⬆
210	⬆	⬆	⬆	⬆	⬆	⬆
220	⬆	⬆	⬆	⬆	⬆	⬆

150	160	170	180	190	200	210
150	160	170	180	190	200	210
160	160	170	180	190	200	210
170	160	170	180	190	200	210
180	160	170	180	190	200	210
190	160	170	180	190	200	210
200	160	170	180	190	200	210
210	160	170	180	190	200	210
220	160	170	180	190	200	210

$$(35) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

		270	280	290	300	310	320
150							
160							
170							
180							
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210							
220							

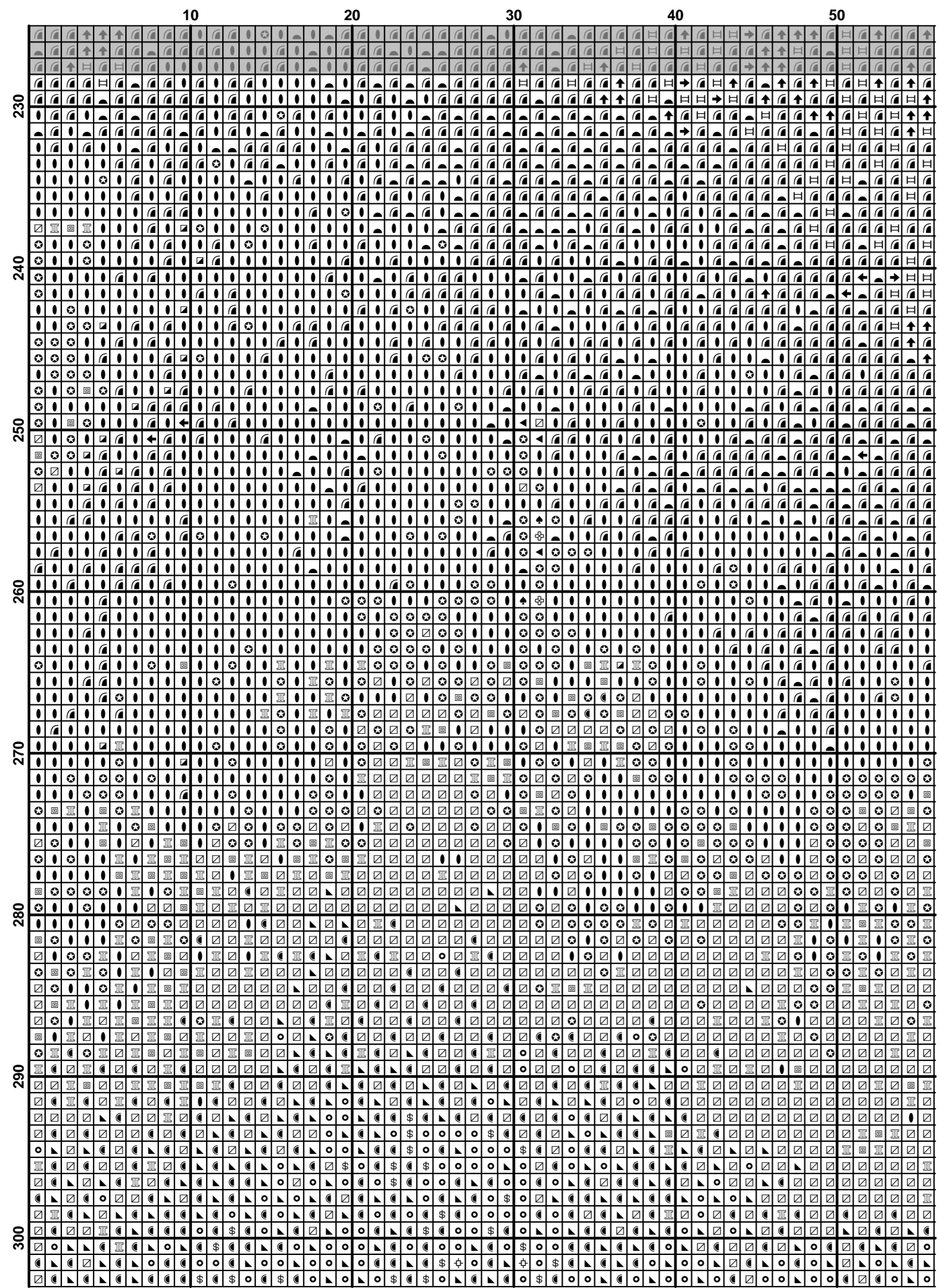


	380	390	400	410	420
150					
160					
170					
180					
190					
200					
210					
220					

		430	440	450	460	470	480
150							
160							
170							
180							
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210							
220							

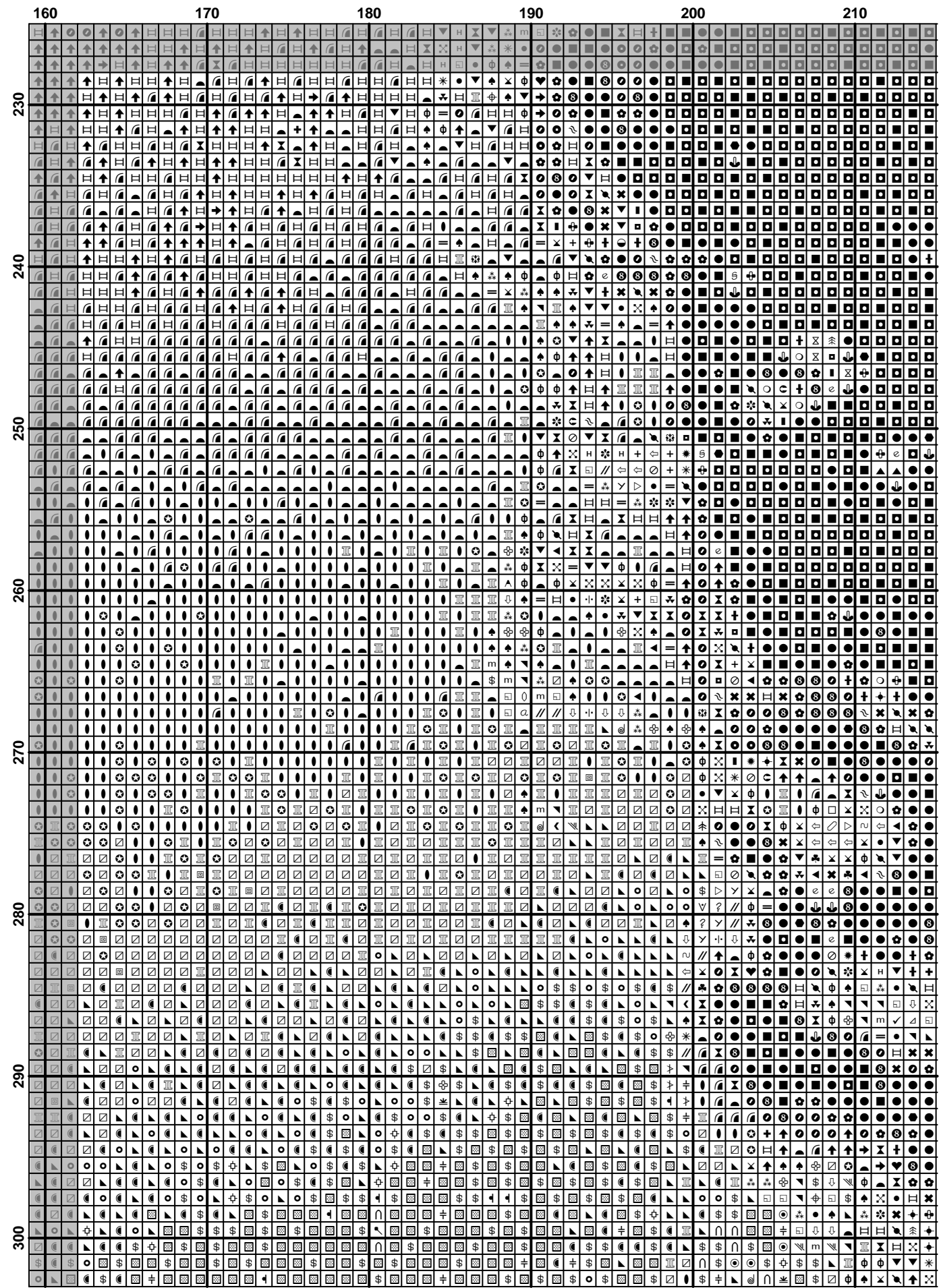






	60	70	80	90	100
230					
240					
250					
260					
270					
280					
290					
300					

	110	120	130	140	150	160
230						
240						
250						
260						
270						
280						
290						
300						



[illegible]

























































































































































































































































































































































































































































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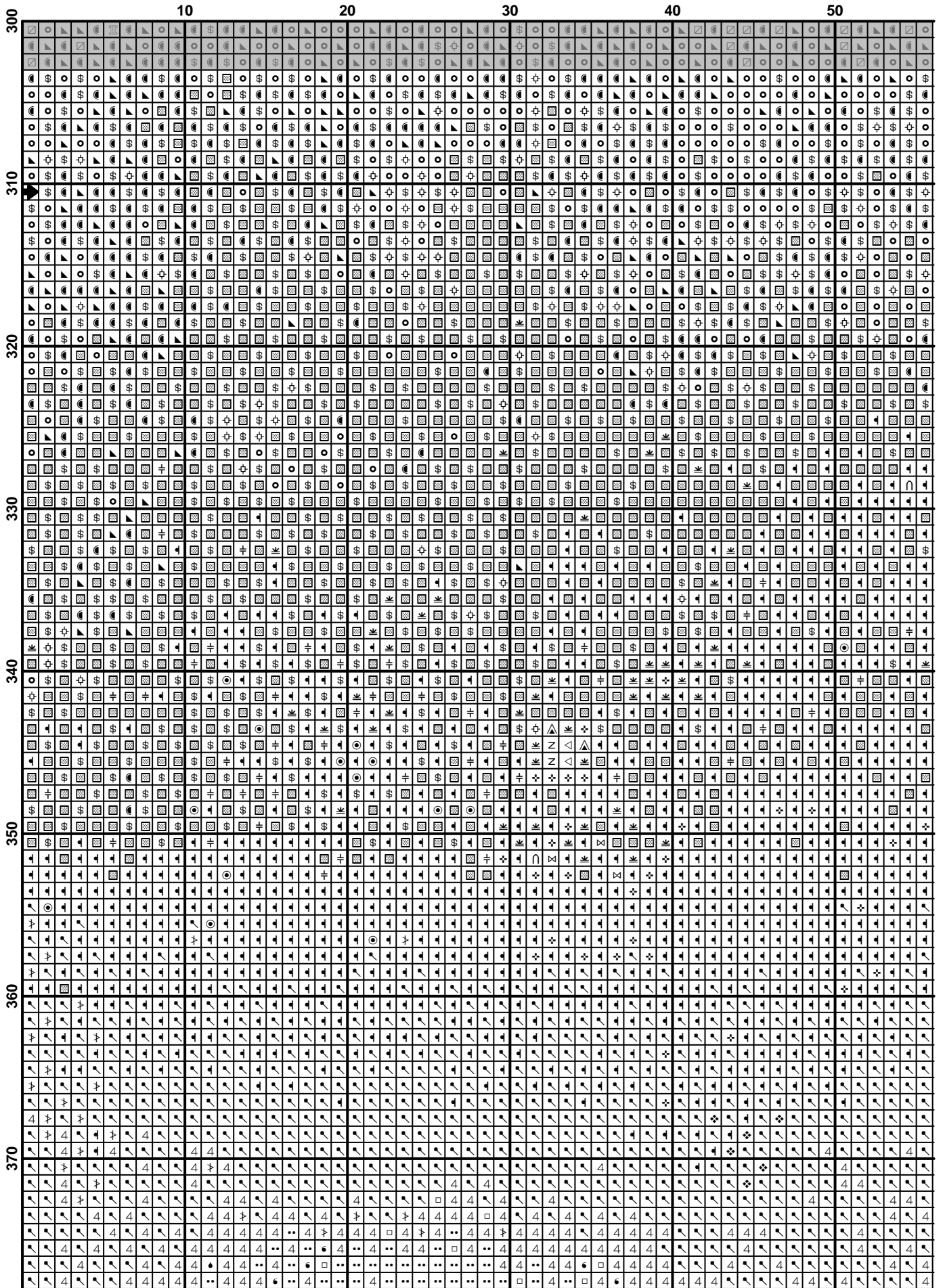
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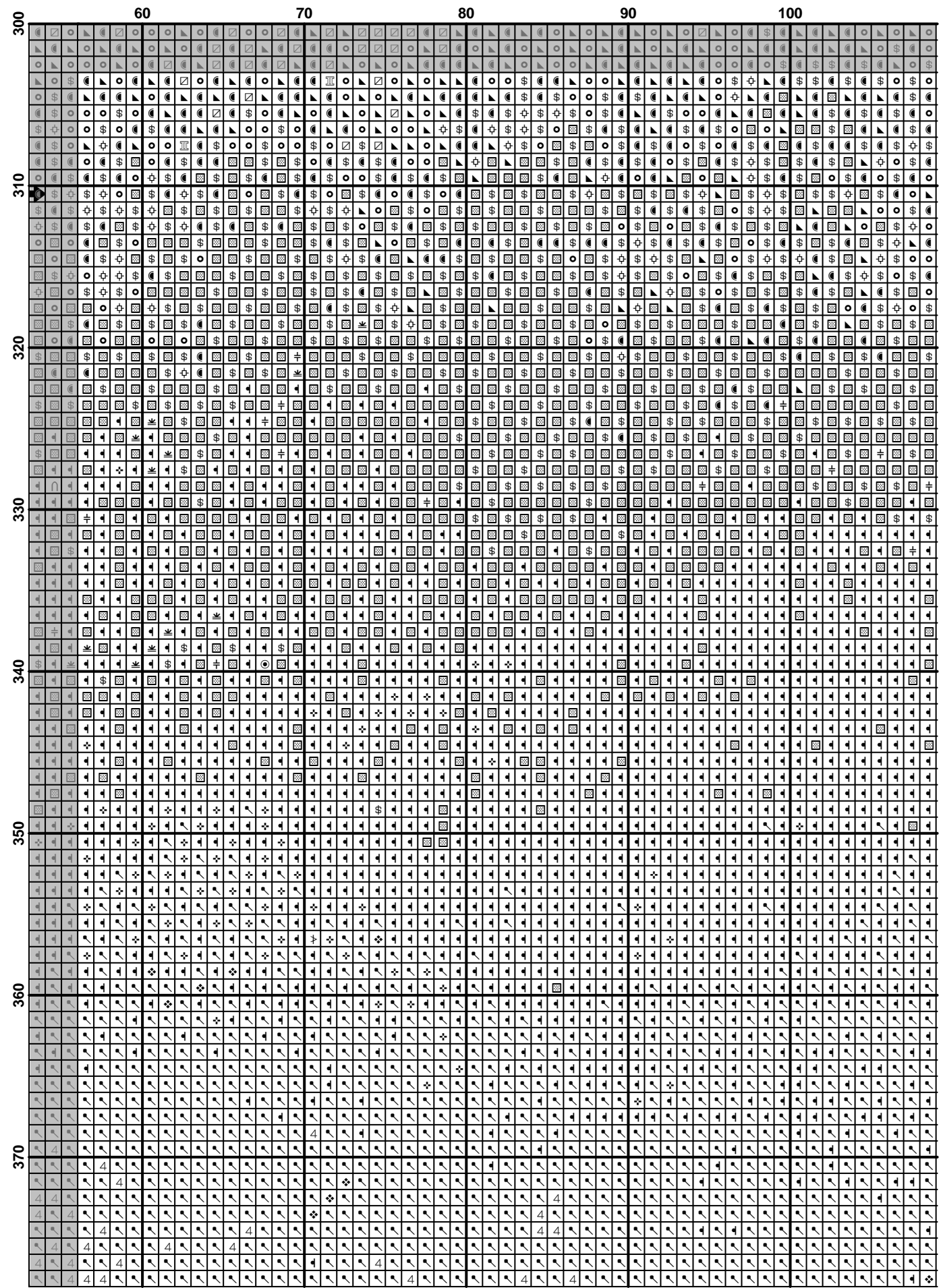


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230					
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300					

	430	440	450	460	470	480
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	480	490	500
230	                                                                     	                                                                    	                                                                   
240	                                                                     	                                                                    	                                                                   
250	                         		





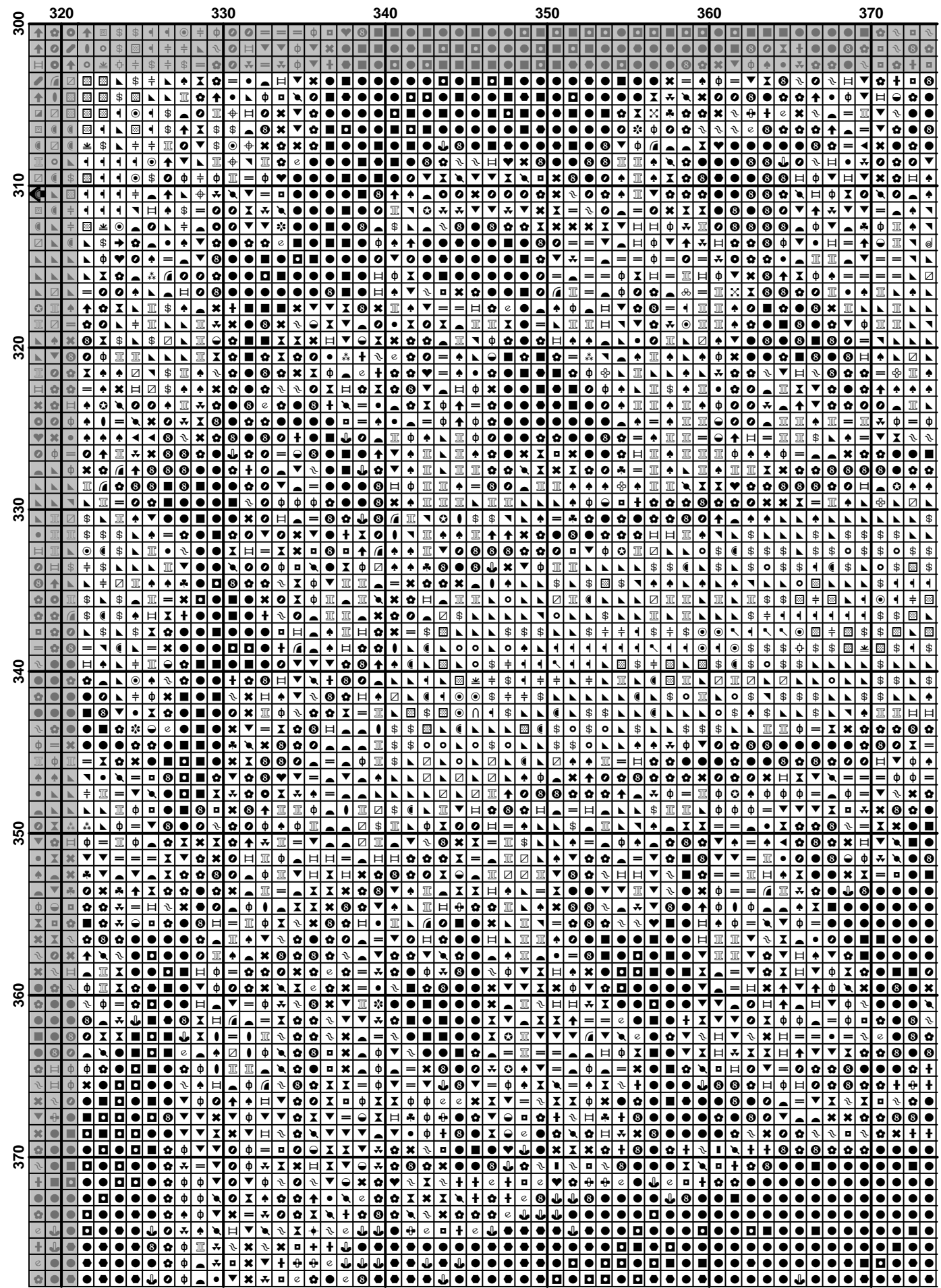
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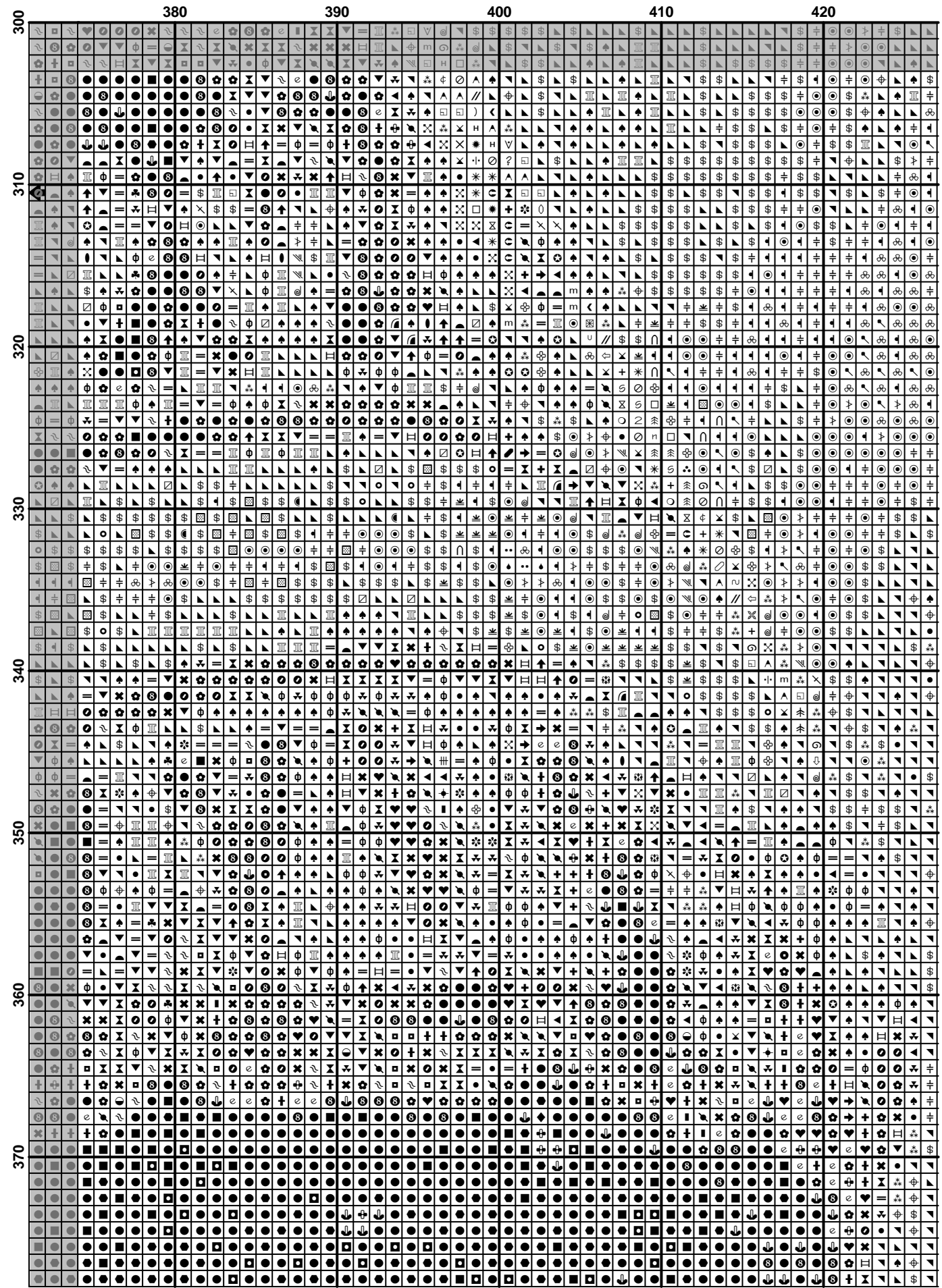
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300							
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350							
360							
370							



	270	280	290	300	310	320
300						
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350						
360						
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	430	440	450	460	470	480
300						
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370						

300	480	490	500
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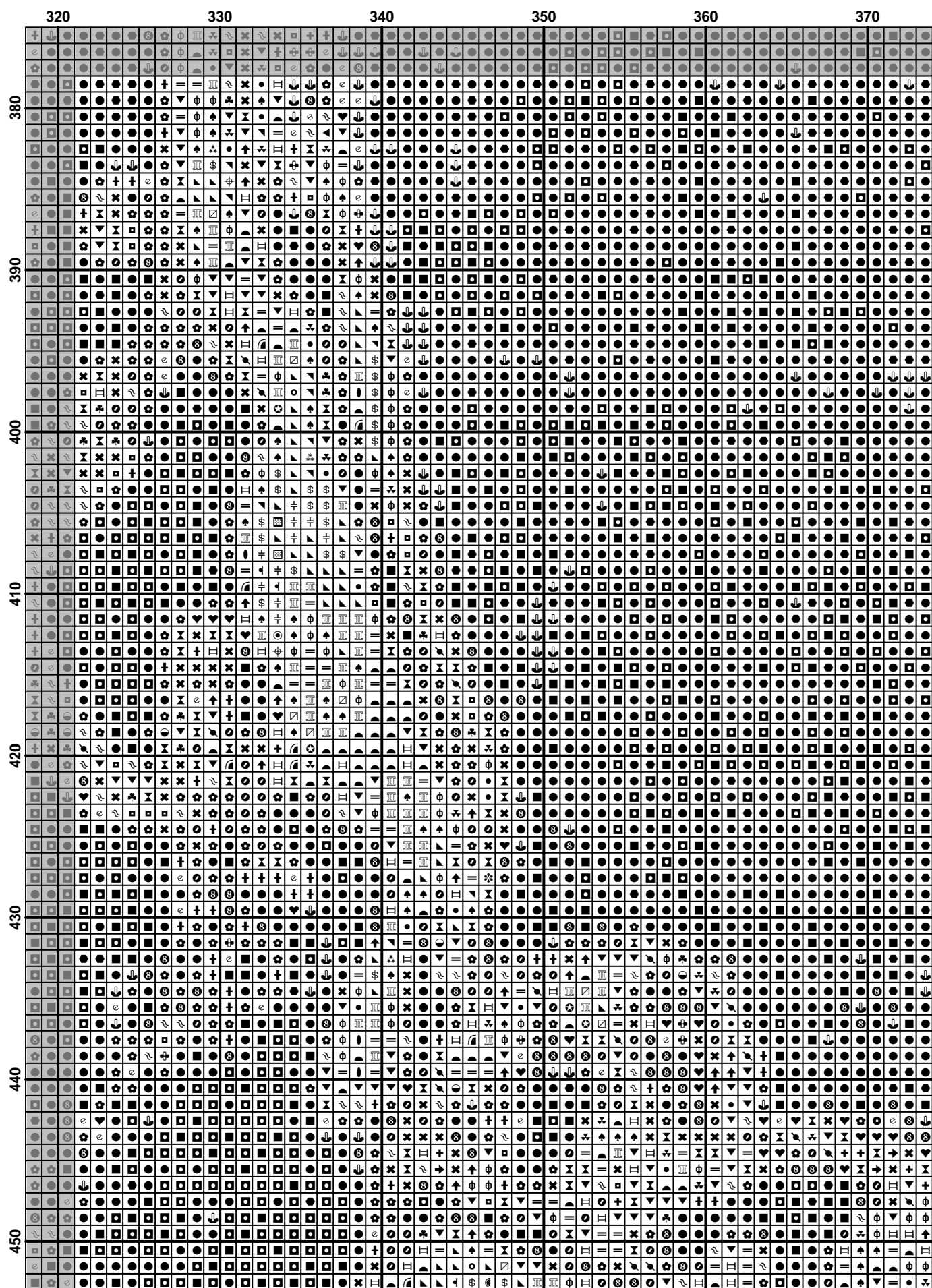
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380						
390						
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430						
440						
450						



	160	170	180	190	200	210
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390	...	...	...	...	...	...
400	...	...	...	...	...	...
410	...	...	...	...	...	...
420	...	...	...	...	...	...
430	...	...	...	...	...	...
440	...	...	...	...	...	...
450	...	...	...	...	...	...

(66)

	270	280	290	300	310	320
380	...	...	...	...	...	...
390	...	...	...	...	...	...
400	...	...	...	...	...	...
410	...	...	...	...	...	...
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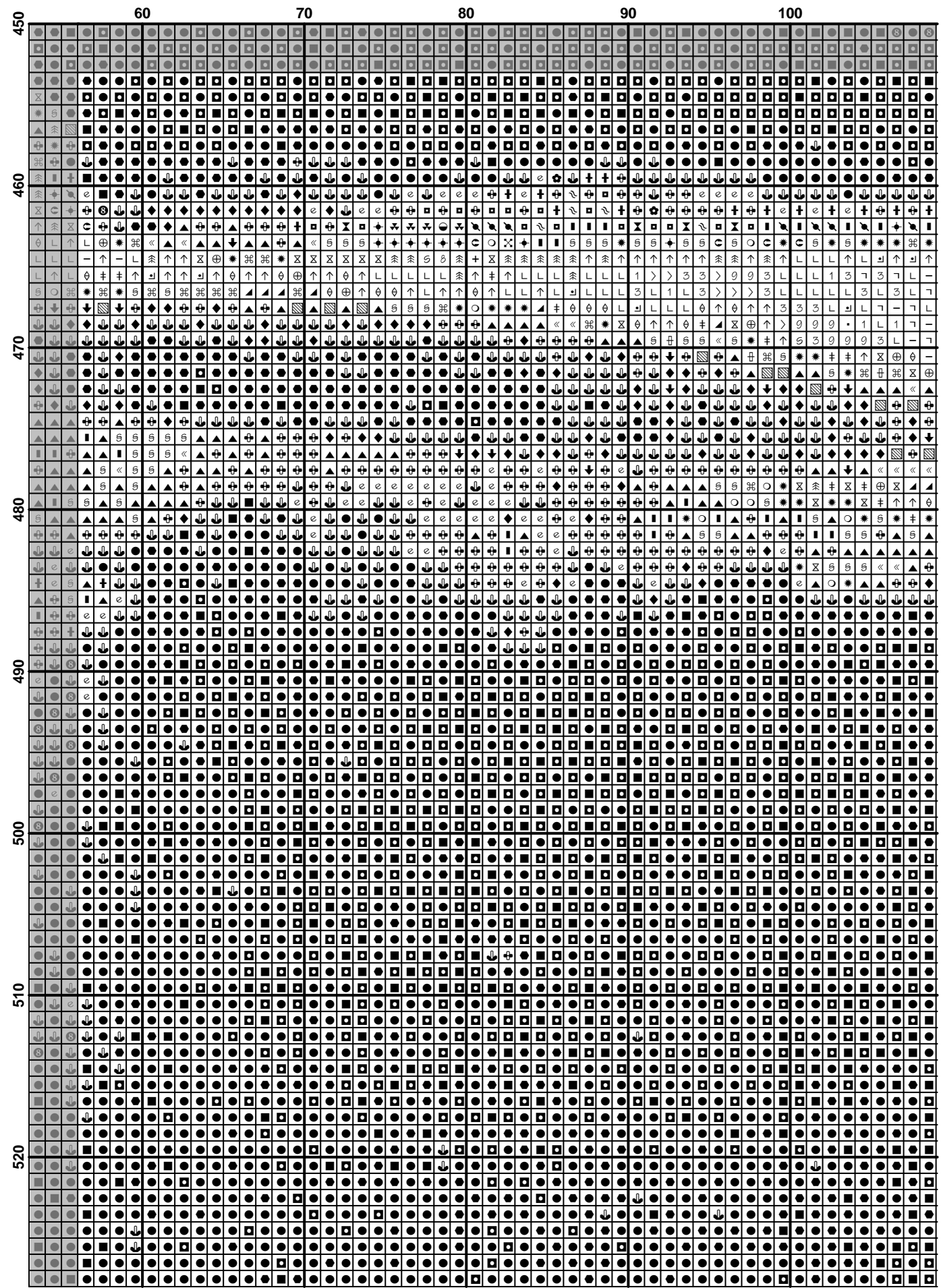
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380						
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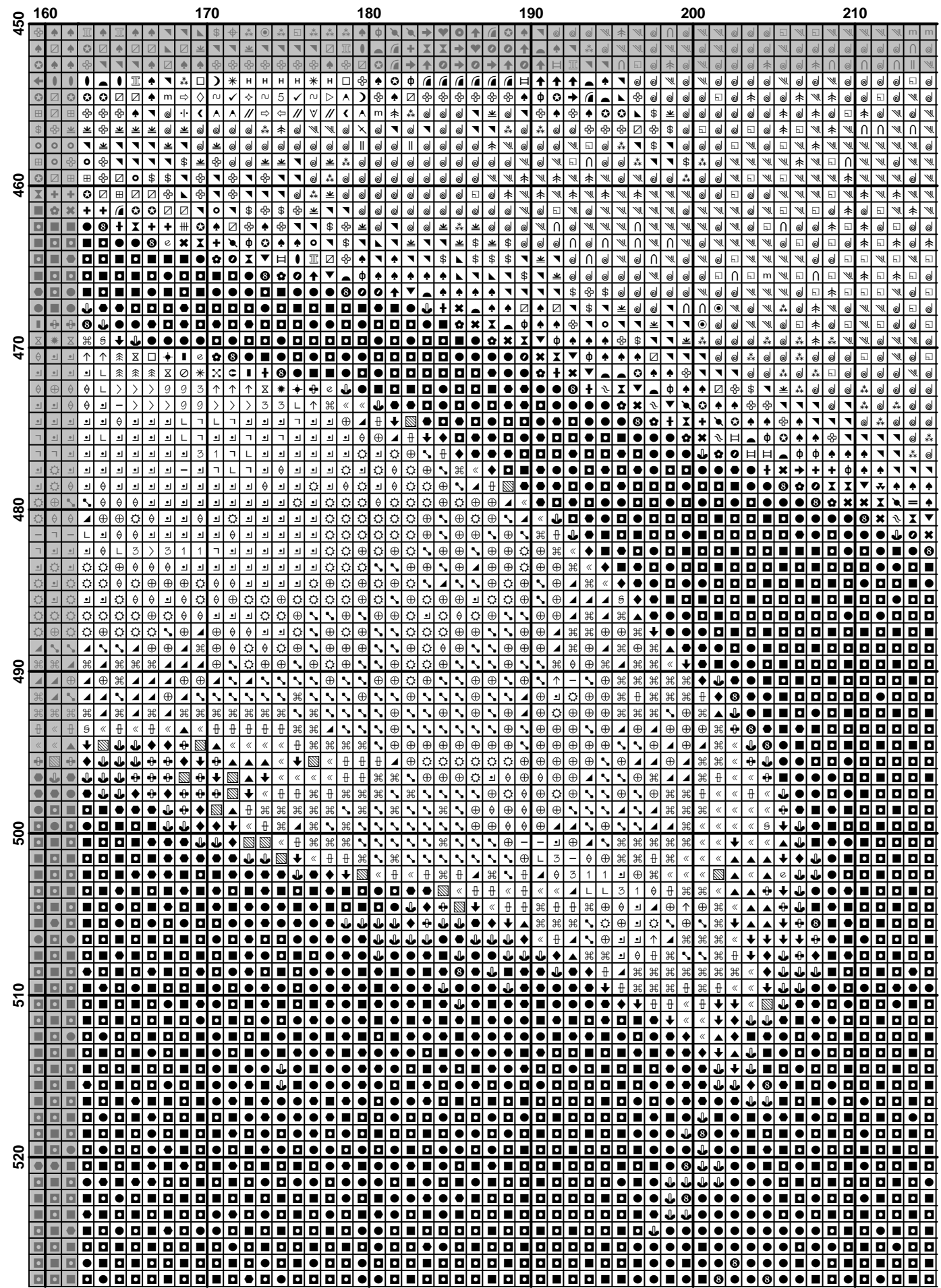


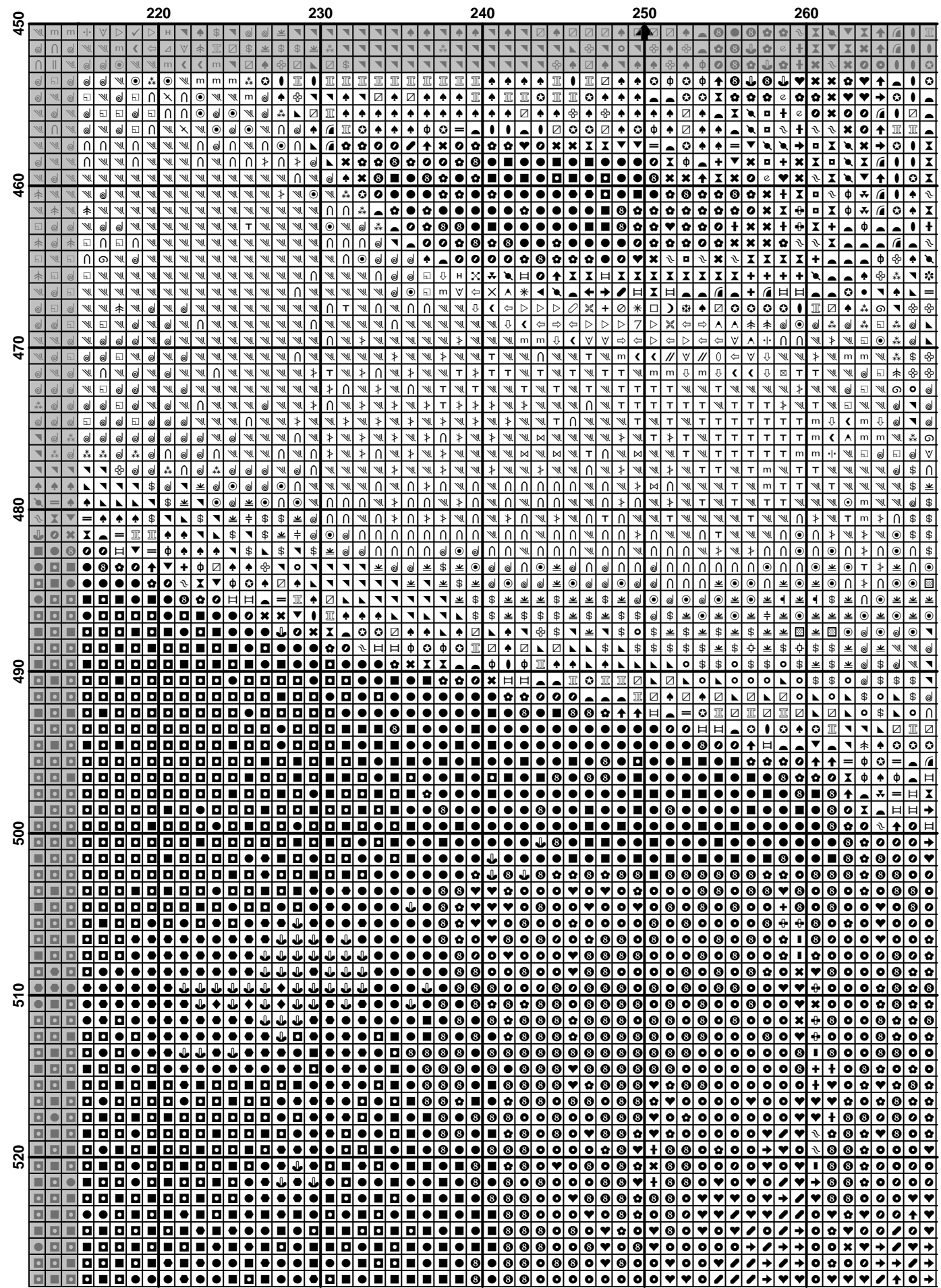
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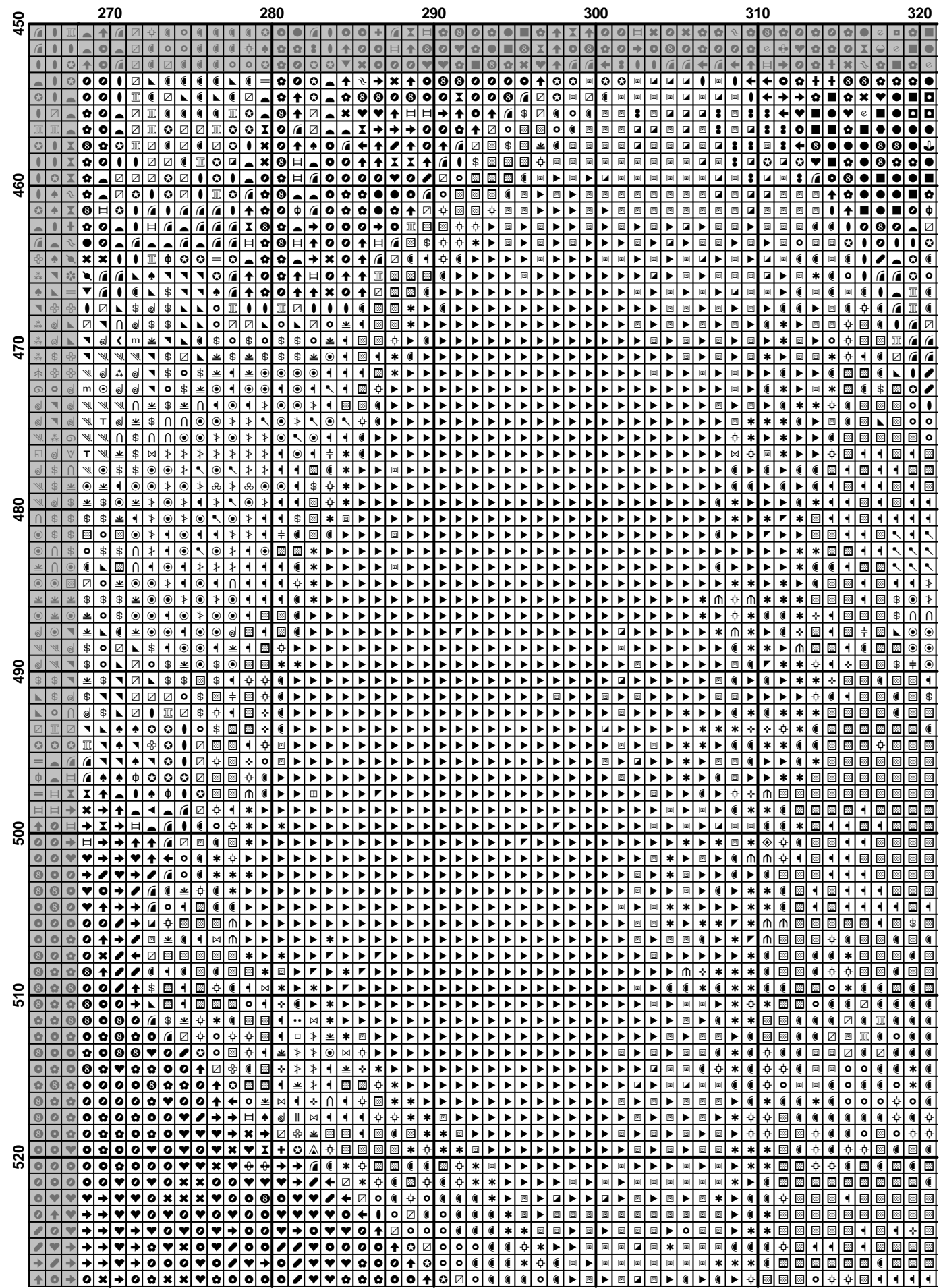


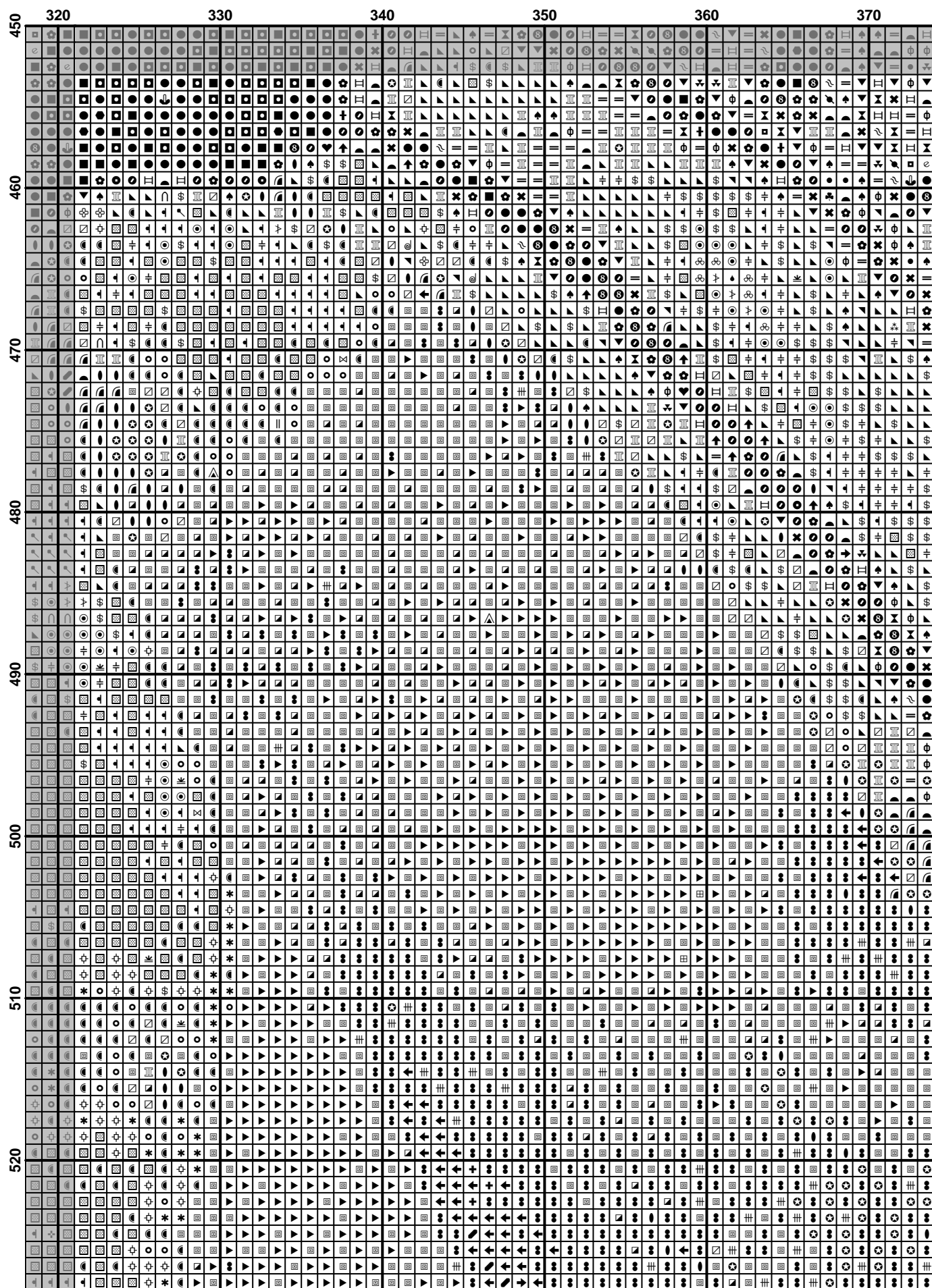


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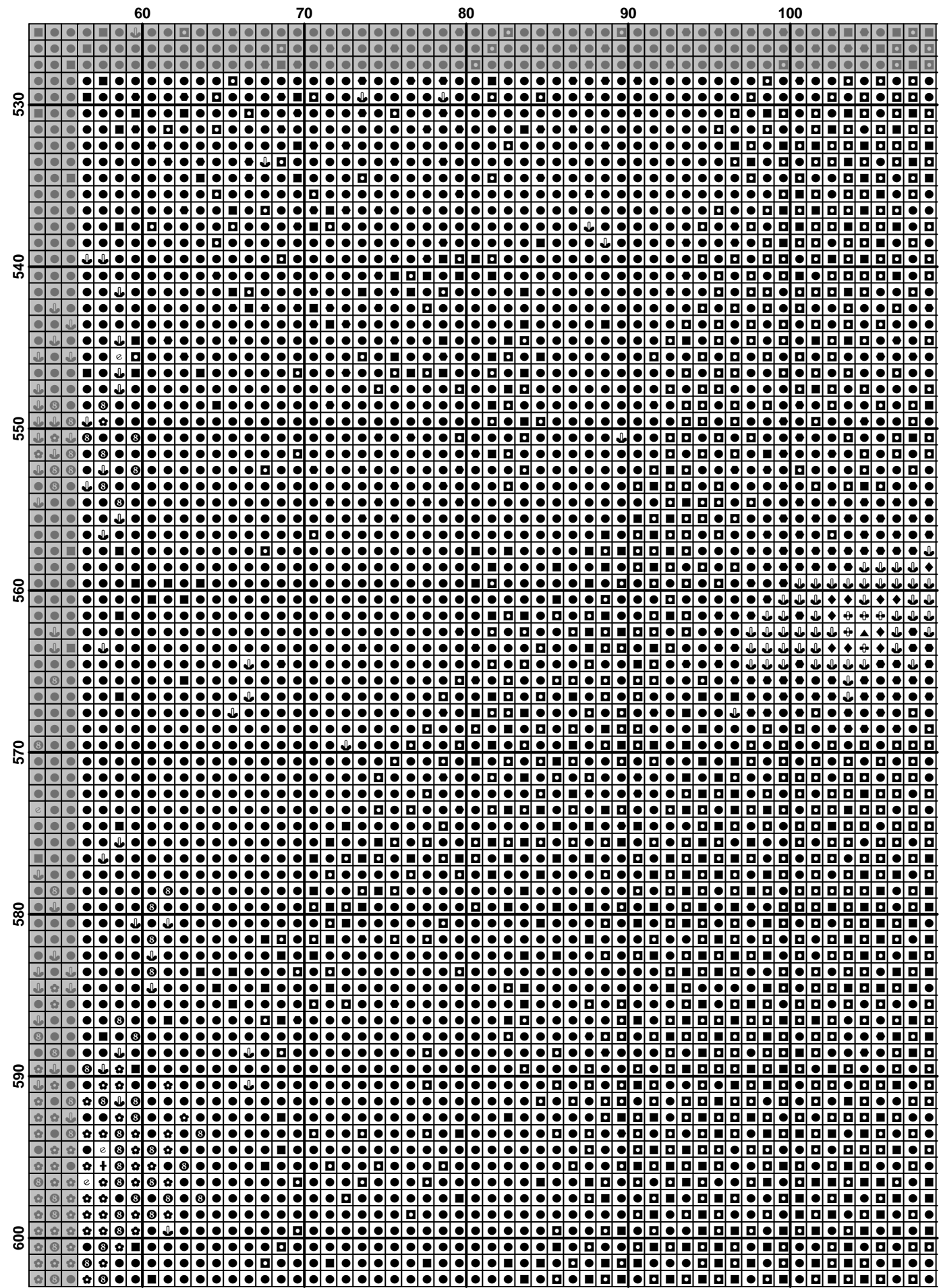
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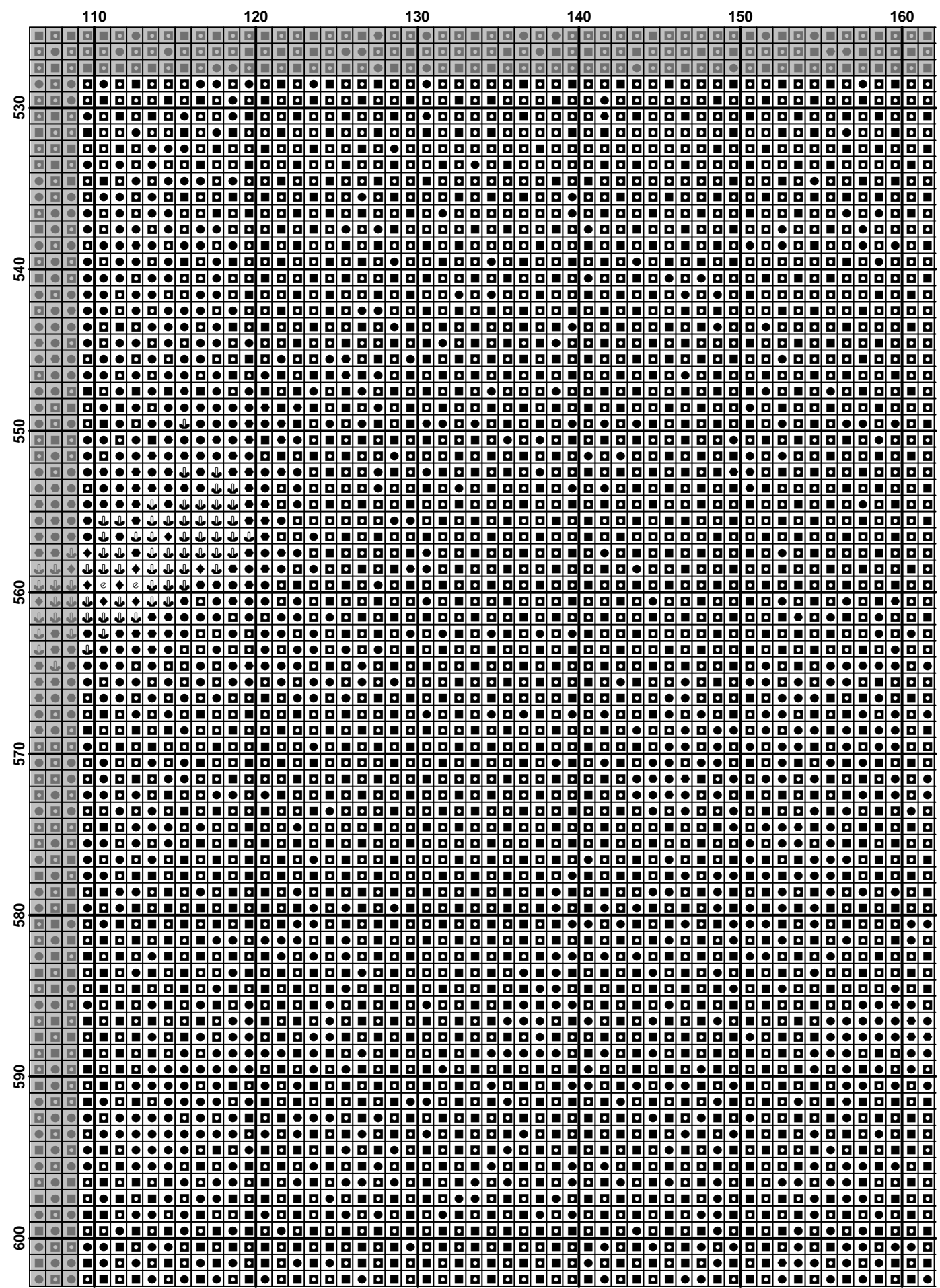
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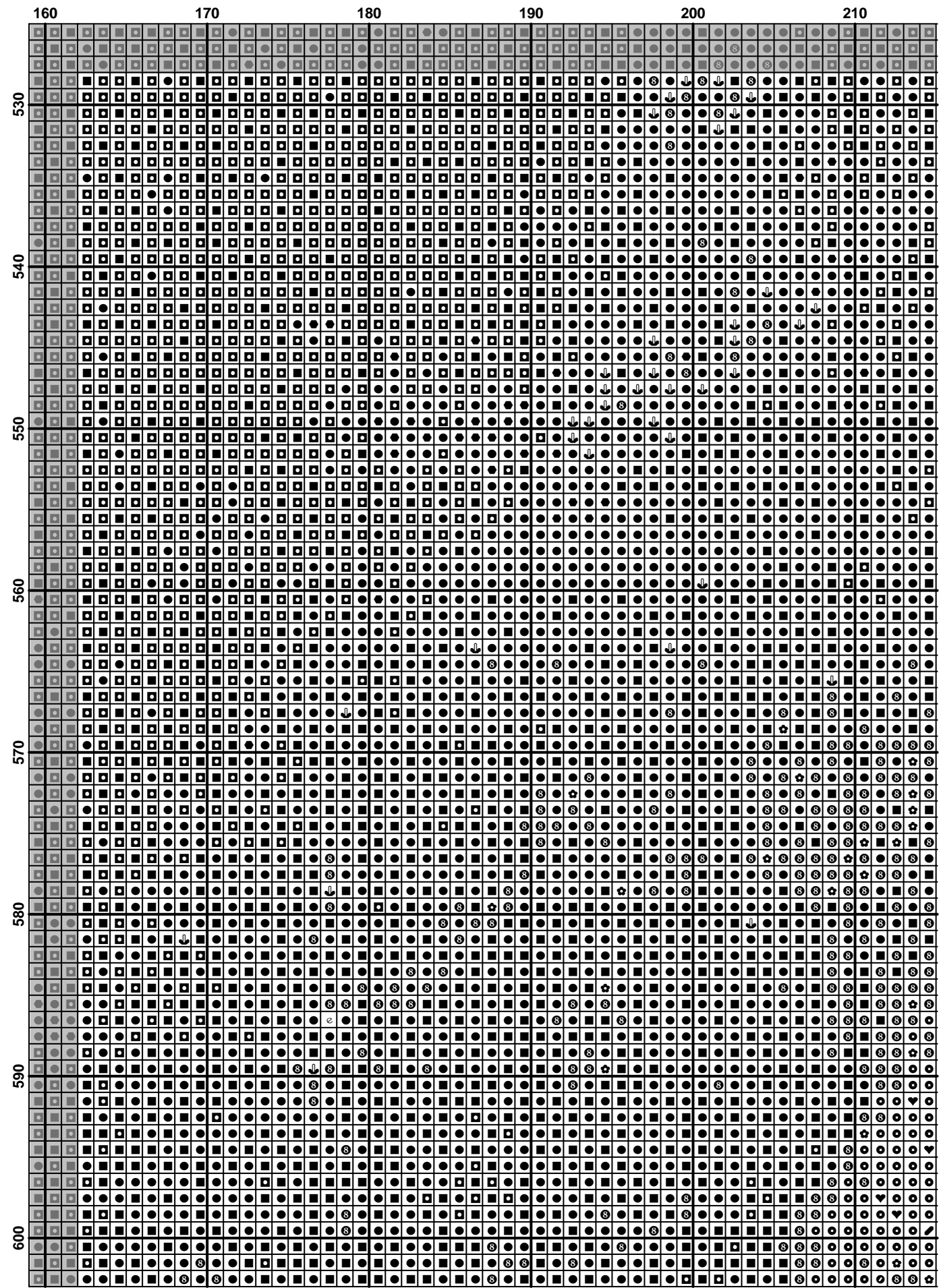


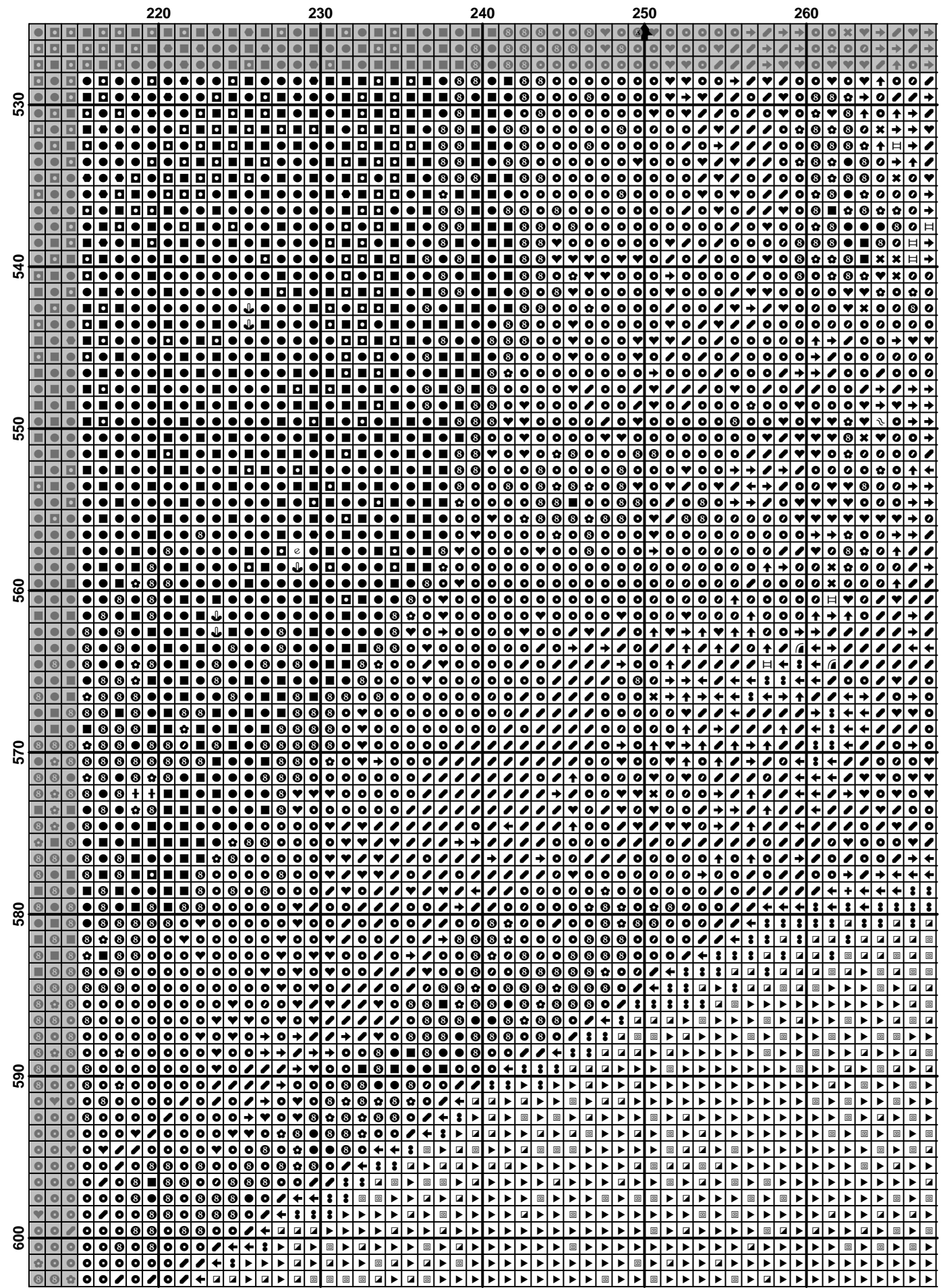
450	480	490	500
460			
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510			
520			

[illegible]









	270	280	290	300	310	320
530						
540						
550						
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	320	330	340	350	360	370
530						
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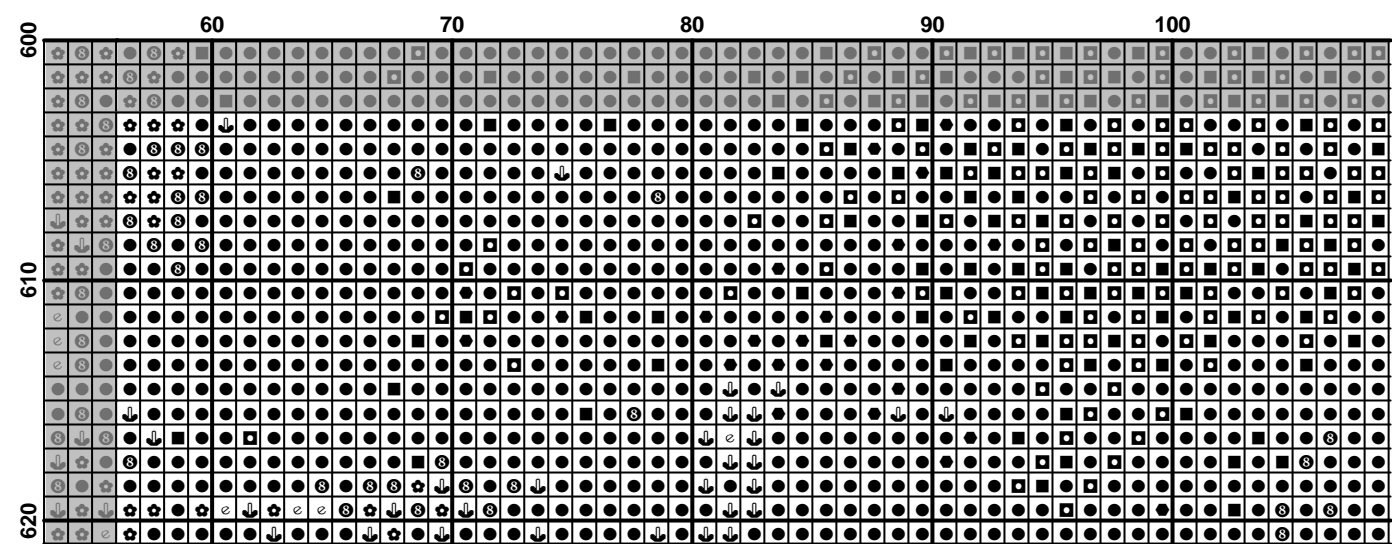


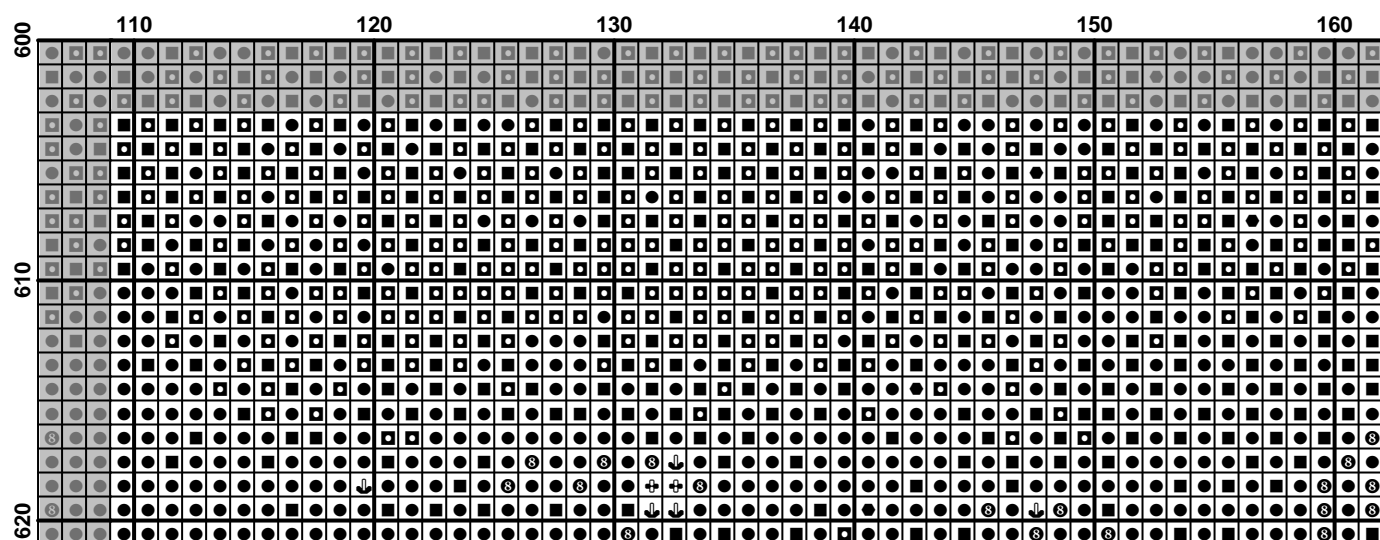
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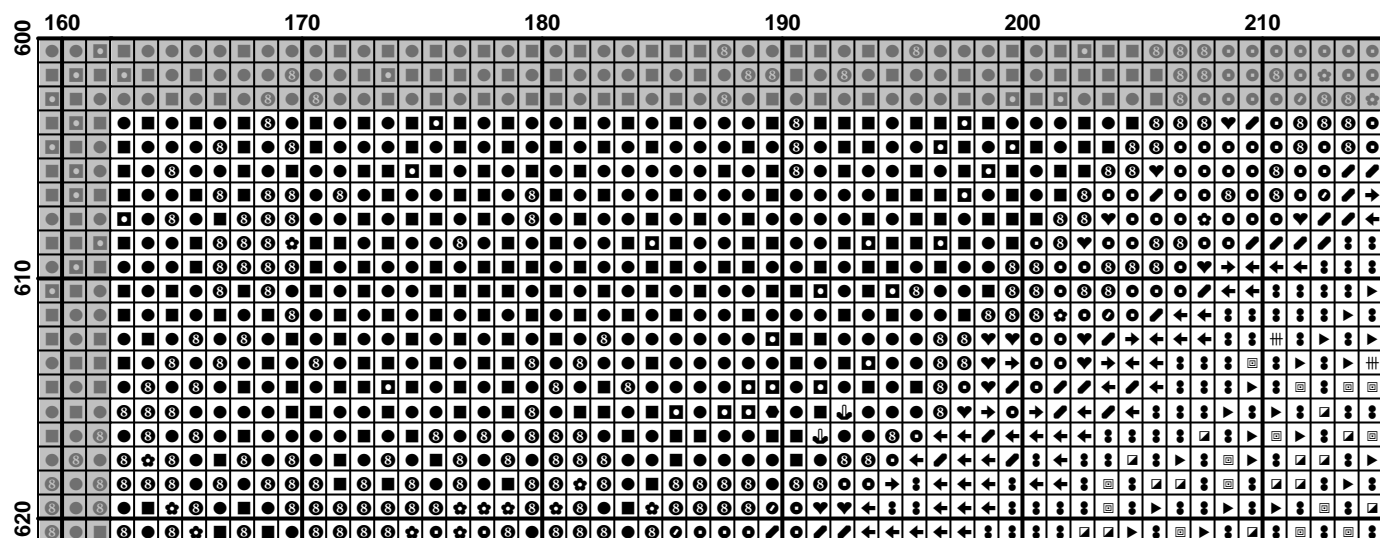
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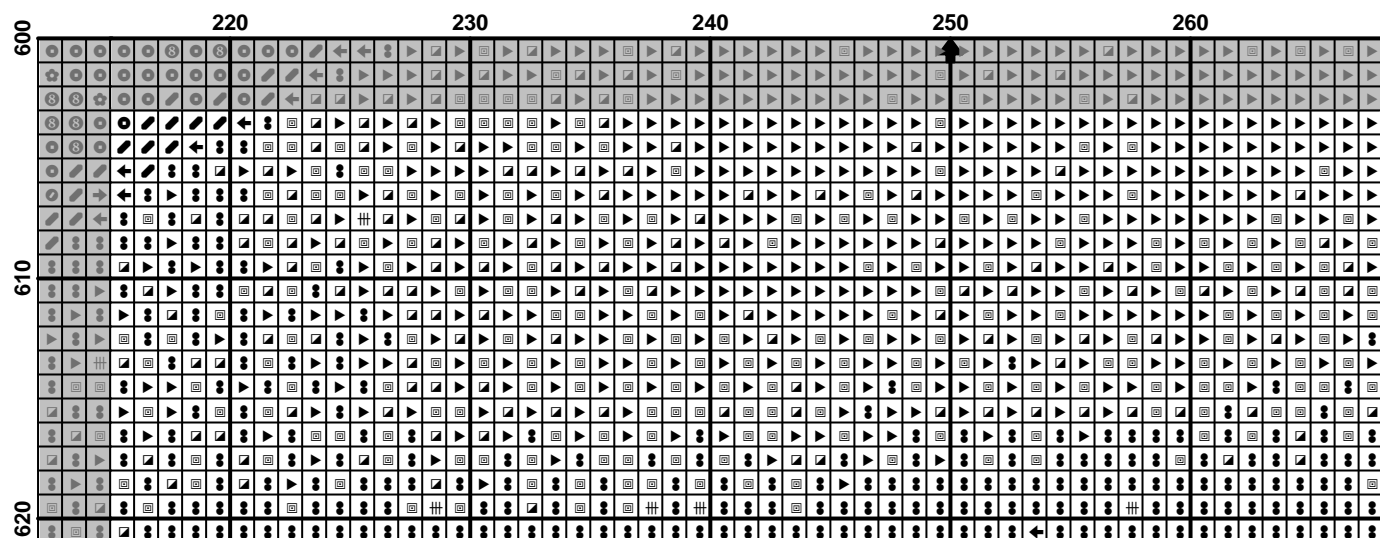
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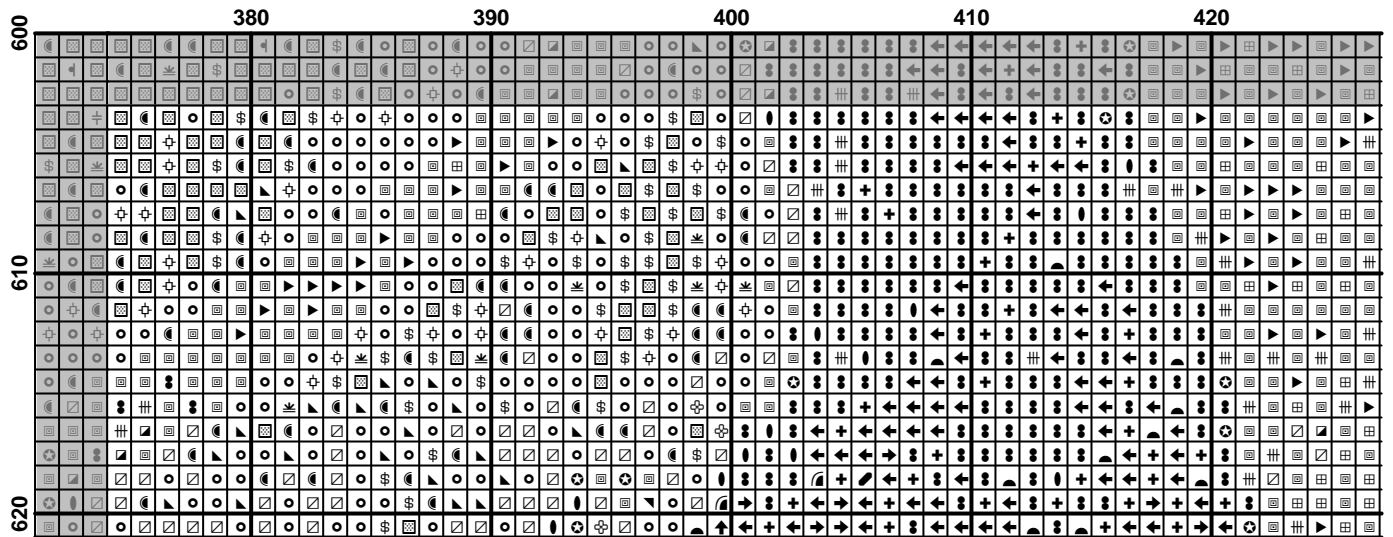






	270	280	290	300	310	320
600						
610						
620						

	320										330										340										350										360										370																			
600																																																																						
610																																																																						
620																																																																						





	480	490	500
600	