

1694 A Summer Rose (small)



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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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A Summer Rose (small)

Stitch Count	
Horizontal:	322
Vertical:	398

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:	59	22,98	72	28,28	52	20,1	63	24,75	46	17,875	56	22
Including Margins:	75	29	88	35	68	27	79	31	62	24	72	29
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	82	32,17	100	39,59	68	26,81	84	32,99	34	13,4	42	16,49
Including Margins:	98	39	116	46	84	33	100	39	50	20	58	23
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	33	12,86	40	15,83	31	12,37	38	15,22	30	11,91	37	14,66
Including Margins:	49	19	56	22	47	19	54	22	46	18	53	21
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	29	11,49	36	14,14	27	10,72	33	13,19	25	10,05	31	12,37
Including Margins:	45	18	52	21	43	17	49	20	41	17	47	19

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
♣	221	Shell Pink-VY DK
↑	300	Mahogany-VY DK
▣	355	Terra Cotta-DK
♠	367	Pistachio Green-DK
**	407	Desert Sand-DK
✕	420	Hazelnut Brown-DK
◇	437	Tan-LT
○	472	Avocado Green-UL LT
m	523	Fern Green-LT
♦♦	580	Moss Green-DK
v	613	Drab Brown-VY LT
=	642	Beige Gray-DK
▲	645	Beaver Gray-VY DK
□	647	Beaver Gray-MD
◻	734	Olive Green-LT
◊	738	Tan-VY LT
«	745	Yellow-LT Pale
♠	782	Topaz-DK
↓	801	Coffee Brown-DK
†	816	Garnet
●	830	Golden Olive-DK
::	833	Golden Olive-LT
β	834	Golden Olive-VY LT
●	839	Beige Brown-DK
*	911	Emerald Green-MD
↗	926	Gray Green-MD
♣	935	Avocado Green-DK
⊠	937	Avocado Green-MD
⊕	938	Coffee Brown-UL DK
©	975	Golden Brown-DK
↘	3012	Khaki Green-MD
■	3021	Brown Gray-VY DK
\$	3022	Brown Gray-MD
↶	3032	Mocha Brown-MD
⊕	3045	Yellow Beige-DK
◊	3047	Yellow Beige-LT
×	3052	Green Gray-MD
✓	3064	Desert Sand
⋮	3328	Salmon-DK
♠	3362	Pine Green-DK
◀	3363	Pine Green-MD
↗	3364	Pine Green
■	3371	Black Brown
←	3685	Mauve-DK
↖	3721	Shell Pink-DK
⊕	3772	Desert Sand-VY DK
III	3778	Terra Cotta-LT
=	3787	Brown Gray-DK
◆	3799	Pewter Gray-VY DK
(3822	Straw-LT
u	3823	Yellow-UL Pale
c	3825	Pumpkin-Pale
∩	3855	Autumn Gold-LT

♡	3856	Mahogany-UL VY LT
卅	3859	Rosewood-LT
▲	3862	Mocha Beige-DK

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
➔	221	Shell Pink-VY DK	300	Mahogany-VY DK
☒	223	Shell Pink-LT	3328	Salmon-DK
⌘	223	Shell Pink-LT	3722	Shell Pink-MD
⦿	300	Mahogany-VY DK	801	Coffee Brown-DK
♣	300	Mahogany-VY DK	3802	Antique Mauve-VY DK
⊕	326	Rose-VY DK	355	Terra Cotta-DK
■	326	Rose-VY DK	3831	Raspberry-DK
⌘	367	Pistachio Green-DK	3362	Pine Green-DK
▀	367	Pistachio Green-DK	3768	Gray Green-DK
○	407	Desert Sand-DK	647	Beaver Gray-MD
▼	420	Hazelnut Brown-DK	3858	Rosewood-MD
▽	437	Tan-LT	356	Terra Cotta-MD
⋈	437	Tan-LT	3064	Desert Sand
✕	437	Tan-LT	3772	Desert Sand-VY DK
△	472	Avocado Green-UL LT	834	Golden Olive-VY LT
◁	472	Avocado Green-UL LT	3364	Pine Green
)	472	Avocado Green-UL LT	3822	Straw-LT
◇	503	Blue Green-MD	523	Fern Green-LT
⋈	523	Fern Green-LT	644	Beige Gray-MD
⌘	523	Fern Green-LT	647	Beaver Gray-MD
▶	580	Moss Green-DK	937	Avocado Green-MD
⊕	581	Moss Green	732	Olive Green
⦿	611	Drab Brown	645	Beaver Gray-VY DK
⦿	611	Drab Brown	3347	Yellow Green-MD
⦿	611	Drab Brown	3862	Mocha Beige-DK
:	613	Drab Brown-VY LT	738	Tan-VY LT
↑	613	Drab Brown-VY LT	745	Yellow-LT Pale
	613	Drab Brown-VY LT	3047	Yellow Beige-LT
⊕	642	Beige Gray-DK	645	Beaver Gray-VY DK
√	644	Beige Gray-MD	647	Beaver Gray-MD
⦿	645	Beaver Gray-VY DK	413	Pewter Gray-DK
⦿	647	Beaver Gray-MD	522	Fern Green
⦿	732	Olive Green	580	Moss Green-DK
<	738	Tan-VY LT	445	Lemon-LT
⌘	738	Tan-VY LT	523	Fern Green-LT
•	738	Tan-VY LT	745	Yellow-LT Pale
9	738	Tan-VY LT	3013	Khaki Green-LT
↓	738	Tan-VY LT	3047	Yellow Beige-LT
⌘	738	Tan-VY LT	3778	Terra Cotta-LT
±	738	Tan-VY LT	3825	Pumpkin-Pale
L	738	Tan-VY LT	3856	Mahogany-UL VY LT
/	738	Tan-VY LT	3864	Mocha Beige-LT
>	745	Yellow-LT Pale	758	Terra Cotta-VY LT
o	745	Yellow-LT Pale	945	Tawny
n	745	Yellow-LT Pale	3047	Yellow Beige-LT
5	758	Terra Cotta-VY LT	760	Salmon
o	758	Terra Cotta-VY LT	3864	Mocha Beige-LT

+	801	Coffee Brown-DK	580	Moss Green-DK
☉	801	Coffee Brown-DK	830	Golden Olive-DK
■	830	Golden Olive-DK	3362	Pine Green-DK
△	833	Golden Olive-LT	471	Avocado Green-VY LT
+	839	Beige Brown-DK	3858	Rosewood-MD
☿	895	Hunter Green-VY DK	937	Avocado Green-MD
☿	909	Emerald Green-VY DK	924	Gray Green--VY DK
+	911	Emerald Green-MD	3364	Pine Green
★	931	Antique Blue-MD	3768	Gray Green-DK
♥	935	Avocado Green-DK	895	Hunter Green-VY DK
☉	935	Avocado Green-DK	3362	Pine Green-DK
●	935	Avocado Green-DK	3371	Black Brown
✱	937	Avocado Green-MD	801	Coffee Brown-DK
☉	937	Avocado Green-MD	938	Coffee Brown-UL DK
●	937	Avocado Green-MD	3799	Pewter Gray-VY DK
○	938	Coffee Brown-UL DK	300	Mahogany-VY DK
✱	938	Coffee Brown-UL DK	801	Coffee Brown-DK
✱	938	Coffee Brown-UL DK	975	Golden Brown-DK
⇒	945	Tawny	758	Terra Cotta-VY LT
◎	3012	Khaki Green-MD	471	Avocado Green-VY LT
5	3012	Khaki Green-MD	3364	Pine Green
٪	3012	Khaki Green-MD	3829	Old Gold-VY DK
α	3013	Khaki Green-LT	472	Avocado Green-UL LT
+	3013	Khaki Green-LT	642	Beige Gray-DK
7	3013	Khaki Green-LT	3023	Brown Gray-LT
?	3013	Khaki Green-LT	3864	Mocha Beige-LT
▨	3021	Brown Gray-VY DK	3787	Brown Gray-DK
z	3022	Brown Gray-MD	645	Beaver Gray-VY DK
+	3022	Brown Gray-MD	3041	Antique Violet-MD
∩	3022	Brown Gray-MD	3052	Green Gray-MD
☿	3032	Mocha Brown-MD	223	Shell Pink-LT
γ	3032	Mocha Brown-MD	3045	Yellow Beige-DK
#	3032	Mocha Brown-MD	3064	Desert Sand
☿	3041	Antique Violet-MD	3802	Antique Mauve-VY DK
田	3045	Yellow Beige-DK	356	Terra Cotta-MD
∴	3045	Yellow Beige-DK	437	Tan-LT
↑	3045	Yellow Beige-DK	3064	Desert Sand
Λ	3064	Desert Sand	356	Terra Cotta-MD
+	3064	Desert Sand	760	Salmon
τ	3064	Desert Sand	3772	Desert Sand-VY DK
†	3064	Desert Sand	3778	Terra Cotta-LT
3	3064	Desert Sand	3856	Mahogany-UL VY LT
	3064	Desert Sand	3864	Mocha Beige-LT
//	3328	Salmon-DK	3721	Shell Pink-DK
☿	3328	Salmon-DK	3778	Terra Cotta-LT
☿	3346	Hunter Green	830	Golden Olive-DK
☿	3346	Hunter Green	3363	Pine Green-MD
✱	3346	Hunter Green	3787	Brown Gray-DK
II	3347	Yellow Green-MD	833	Golden Olive-LT
∴	3347	Yellow Green-MD	3862	Mocha Beige-DK
✱	3362	Pine Green-DK	3346	Hunter Green
◀	3362	Pine Green-DK	3787	Brown Gray-DK
∴	3364	Pine Green	642	Beige Gray-DK
∴	3364	Pine Green	3052	Green Gray-MD
☉	3371	Black Brown	300	Mahogany-VY DK
●	3371	Black Brown	895	Hunter Green-VY DK
■	3371	Black Brown	938	Coffee Brown-UL DK
✱	3712	Salmon-MD	223	Shell Pink-LT
H	3712	Salmon-MD	3778	Terra Cotta-LT

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☼	3722	Shell Pink-MD	356	Terra Cotta-MD
☼	3722	Shell Pink-MD	3328	Salmon-DK
☼	3722	Shell Pink-MD	3828	Hazelnut Brown
☼	3722	Shell Pink-MD	3859	Rosewood-LT
☼	3722	Shell Pink-MD	3860	Cocoa
▲	3768	Gray Green-DK	924	Gray Green--VY DK
❖	3772	Desert Sand-VY DK	3045	Yellow Beige-DK
➤	3772	Desert Sand-VY DK	3052	Green Gray-MD
✦	3772	Desert Sand-VY DK	3858	Rosewood-MD
▼	3802	Antique Mauve-VY DK	839	Beige Brown-DK
↓	3802	Antique Mauve-VY DK	938	Coffee Brown-UL DK
☼	3802	Antique Mauve-VY DK	3721	Shell Pink-DK
☼	3802	Antique Mauve-VY DK	3860	Cocoa
☼	3820	Straw-DK	976	Golden Brown-MD
☼	3822	Straw-LT	834	Golden Olive-VY LT
1	3823	Yellow-UL Pale	745	Yellow-LT Pale
☆	3825	Pumpkin-Pale	3778	Terra Cotta-LT
☼	3828	Hazelnut Brown	356	Terra Cotta-MD
❖	3830	Terra Cotta-MD	420	Hazelnut Brown-DK
▲	3830	Terra Cotta-MD	3721	Shell Pink-DK
L	3830	Terra Cotta-MD	3772	Desert Sand-VY DK
▲	3830	Terra Cotta-MD	3858	Rosewood-MD
✱	3831	Raspberry-DK	3721	Shell Pink-DK
□	3856	Mahogany-UL VY LT	445	Lemon-LT
^	3856	Mahogany-UL VY LT	745	Yellow-LT Pale
⚓	3856	Mahogany-UL VY LT	758	Terra Cotta-VY LT
↔	3856	Mahogany-UL VY LT	760	Salmon
▷	3856	Mahogany-UL VY LT	945	Tawny
6	3856	Mahogany-UL VY LT	3013	Khaki Green-LT
☼	3856	Mahogany-UL VY LT	3778	Terra Cotta-LT
∞	3856	Mahogany-UL VY LT	3823	Yellow-UL Pale
4	3856	Mahogany-UL VY LT	3864	Mocha Beige-LT
✱	3858	Rosewood-MD	3862	Mocha Beige-DK
☼	3859	Rosewood-LT	3772	Desert Sand-VY DK
H	3860	Cocoa	3052	Green Gray-MD
☼	3860	Cocoa	3787	Brown Gray-DK
☼	3862	Mocha Beige-DK	830	Golden Olive-DK
—	3864	Mocha Beige-LT	647	Beaver Gray-MD

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

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
221	Shell Pink-VY DK	299	117	285	112	256	100
223	Shell Pink-LT	316	124	301	118	271	106
300	Mahogany-VY DK	1250	492	1190	468	1071	421
326	Rose-VY DK	33	12	31	12	28	11
355	Terra Cotta-DK	129	50	123	48	111	43
356	Terra Cotta-MD	245	96	233	91	210	82
367	Pistachio Green-DK	95	37	90	35	81	31
407	Desert Sand-DK	194	76	184	72	166	65
413	Pewter Gray-DK	43	16	41	16	37	14
420	Hazelnut Brown-DK	130	51	124	48	111	43
437	Tan-LT	357	140	340	133	306	120
445	Lemon-LT	113	44	108	42	97	38
471	Avocado Green-VY LT	165	64	157	61	141	55
472	Avocado Green-UL LT	540	212	514	202	463	182
503	Blue Green-MD	14	5	14	5	12	4
522	Fern Green	37	14	35	13	32	12
523	Fern Green-LT	230	90	219	86	197	77
580	Moss Green-DK	353	138	336	132	302	118
581	Moss Green	77	30	73	28	66	25
611	Drab Brown	240	94	229	90	206	81
613	Drab Brown-VY LT	672	264	640	251	576	226
642	Beige Gray-DK	331	130	315	124	284	111
644	Beige Gray-MD	81	31	77	30	69	27
645	Beaver Gray-VY DK	327	128	311	122	280	110
647	Beaver Gray-MD	312	122	297	116	267	105
732	Olive Green	133	52	127	50	114	44
734	Olive Green-LT	214	84	204	80	183	72
738	Tan-VY LT	1149	452	1094	430	985	387
745	Yellow-LT Pale	1870	736	1781	701	1603	631
758	Terra Cotta-VY LT	496	195	472	185	425	167
760	Salmon	224	88	213	83	192	75
782	Topaz-DK	9	3	9	3	8	3
801	Coffee Brown-DK	935	368	890	350	801	315
816	Garnet	31	12	29	11	26	10
830	Golden Olive-DK	798	314	760	299	684	269
833	Golden Olive-LT	214	84	203	79	183	72
834	Golden Olive-VY LT	266	104	253	99	228	89
839	Beige Brown-DK	263	103	250	98	225	88
895	Hunter Green-VY DK	335	131	319	125	287	112
909	Emerald Green-VY DK	19	7	18	7	16	6
911	Emerald Green-MD	42	16	40	15	36	14
924	Gray Green--VY DK	47	18	45	17	40	15
926	Gray Green-MD	33	12	31	12	28	11
931	Antique Blue-MD	4	1	4	1	4	1
935	Avocado Green-DK	819	322	780	307	702	276
937	Avocado Green-MD	993	390	946	372	851	335
938	Coffee Brown-UL DK	1948	766	1855	730	1670	657
945	Tawny	355	139	338	133	304	119
975	Golden Brown-DK	228	89	217	85	196	77
976	Golden Brown-MD	5	1	5	1	4	1
3012	Khaki Green-MD	428	168	408	160	367	144
3013	Khaki Green-LT	308	121	293	115	264	103
3021	Brown Gray-VY DK	327	128	311	122	280	110

3022	Brown Gray-MD	307	120	292	114	263	103
3023	Brown Gray-LT	55	21	52	20	47	18
3032	Mocha Brown-MD	254	100	242	95	218	85
3041	Antique Violet-MD	71	27	68	26	61	24
3045	Yellow Beige-DK	347	136	331	130	298	117
3047	Yellow Beige-LT	770	303	734	288	660	259
3052	Green Gray-MD	369	145	352	138	317	124
3064	Desert Sand	854	336	813	320	732	288
3328	Salmon-DK	499	196	475	187	428	168
3346	Hunter Green	589	231	561	220	505	198
3347	Yellow Green-MD	371	146	353	138	318	125
3362	Pine Green-DK	768	302	731	287	658	259
3363	Pine Green-MD	292	114	278	109	250	98
3364	Pine Green	600	236	572	225	515	202
3371	Black Brown	2730	1074	2600	1023	2340	921
3685	Mauve-DK	80	31	76	29	69	27
3712	Salmon-MD	185	72	176	69	159	62
3721	Shell Pink-DK	423	166	403	158	363	142
3722	Shell Pink-MD	421	165	401	157	361	142
3768	Gray Green-DK	44	17	42	16	38	14
3772	Desert Sand-VY DK	846	333	806	317	725	285
3778	Terra Cotta-LT	423	166	403	158	363	142
3787	Brown Gray-DK	502	197	478	188	430	169
3799	Pewter Gray-VY DK	276	108	263	103	237	93
3802	Antique Mauve-VY DK	338	133	322	126	290	114
3820	Straw-DK	5	1	5	1	4	1
3822	Straw-LT	207	81	197	77	177	69
3823	Yellow-UL Pale	405	159	386	151	347	136
3825	Pumpkin-Pale	101	39	96	37	87	34
3828	Hazelnut Brown	107	42	102	40	92	36
3829	Old Gold-VY DK	75	29	72	28	65	25
3830	Terra Cotta-MD	188	74	179	70	161	63
3831	Raspberry-DK	76	29	73	28	65	25
3855	Autumn Gold-LT	101	39	96	37	87	34
3856	Mahogany-UL VY LT	1714	674	1633	642	1469	578
3858	Rosewood-MD	342	134	326	128	293	115
3859	Rosewood-LT	195	76	186	73	167	65
3860	Cocoa	232	91	221	87	199	78
3862	Mocha Beige-DK	496	195	472	185	425	167
3864	Mocha Beige-LT	485	190	462	181	416	163

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
221	Shell Pink-VY DK	461	180	384	150	192	75
223	Shell Pink-LT	488	191	407	159	203	80
300	Mahogany-VY DK	1928	758	1607	632	803	316
326	Rose-VY DK	50	20	42	17	21	8
355	Terra Cotta-DK	200	77	167	65	83	32
356	Terra Cotta-MD	378	148	315	123	158	62
367	Pistachio Green-DK	146	56	122	47	61	23
407	Desert Sand-DK	299	117	249	98	125	49
413	Pewter Gray-DK	67	25	56	21	28	11
420	Hazelnut Brown-DK	200	77	167	65	83	32
437	Tan-LT	551	216	459	180	230	90
445	Lemon-LT	175	68	146	57	73	29

471	Avocado Green-VY LT	254	99	212	83	106	41
472	Avocado Green-UL LT	833	328	695	273	347	137
503	Blue Green-MD	22	7	18	6	9	3
522	Fern Green	58	22	48	18	24	9
523	Fern Green-LT	355	139	296	116	148	58
580	Moss Green-DK	544	212	453	177	227	89
581	Moss Green	119	45	99	38	50	19
611	Drab Brown	371	146	309	122	155	61
613	Drab Brown-VY LT	1037	407	864	339	432	170
642	Beige Gray-DK	511	200	426	167	213	83
644	Beige Gray-MD	124	49	104	41	52	20
645	Beaver Gray-VY DK	504	198	420	165	210	83
647	Beaver Gray-MD	481	189	401	158	200	79
732	Olive Green	205	79	171	66	86	33
734	Olive Green-LT	329	130	275	108	137	54
738	Tan-VY LT	1773	697	1478	581	739	290
745	Yellow-LT Pale	2885	1136	2405	947	1202	473
758	Terra Cotta-VY LT	765	301	638	251	319	125
760	Salmon	346	135	288	113	144	56
782	Topaz-DK	14	5	12	5	6	2
801	Coffee Brown-DK	1442	567	1202	473	601	236
816	Garnet	47	18	39	15	20	8
830	Golden Olive-DK	1231	484	1026	404	513	202
833	Golden Olive-LT	329	130	275	108	137	54
834	Golden Olive-VY LT	410	160	342	134	171	67
839	Beige Brown-DK	405	158	338	132	169	66
895	Hunter Green-VY DK	517	202	431	168	215	84
909	Emerald Green-VY DK	29	11	24	9	12	5
911	Emerald Green-MD	65	25	54	21	27	11
924	Gray Green--VY DK	72	27	60	23	30	11
926	Gray Green-MD	50	20	42	17	21	8
931	Antique Blue-MD	7	2	6	2	3	1
935	Avocado Green-DK	1264	497	1053	414	527	207
937	Avocado Green-MD	1532	603	1277	503	638	251
938	Coffee Brown-UL DK	3006	1183	2505	986	1253	493
945	Tawny	547	214	456	179	228	89
975	Golden Brown-DK	353	139	294	116	147	58
976	Golden Brown-MD	7	2	6	2	3	1
3012	Khaki Green-MD	661	259	551	216	275	108
3013	Khaki Green-LT	475	185	396	155	198	77
3021	Brown Gray-VY DK	504	198	420	165	210	83
3022	Brown Gray-MD	473	185	395	155	197	77
3023	Brown Gray-LT	85	32	71	27	35	14
3032	Mocha Brown-MD	392	153	327	128	164	64
3041	Antique Violet-MD	110	43	92	36	46	18
3045	Yellow Beige-DK	536	211	447	176	224	88
3047	Yellow Beige-LT	1188	466	990	389	495	194
3052	Green Gray-MD	571	223	476	186	238	93
3064	Desert Sand	1318	518	1098	432	549	216
3328	Salmon-DK	770	302	642	252	321	126
3346	Hunter Green	909	356	758	297	379	149
3347	Yellow Green-MD	572	225	477	188	239	94
3362	Pine Green-DK	1184	466	987	389	494	194
3363	Pine Green-MD	450	176	375	147	188	74
3364	Pine Green	927	364	773	303	386	152
3371	Black Brown	4212	1658	3510	1382	1755	691
3685	Mauve-DK	124	49	104	41	52	20
3712	Salmon-MD	286	112	239	93	119	47
3721	Shell Pink-DK	653	256	545	213	272	107

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3722	Shell Pink-MD	650	256	542	213	271	107
3768	Gray Green-DK	68	25	57	21	29	11
3772	Desert Sand-VY DK	1305	513	1088	428	544	214
3778	Terra Cotta-LT	653	256	545	213	272	107
3787	Brown Gray-DK	774	304	645	254	323	127
3799	Pewter Gray-VY DK	427	167	356	140	178	70
3802	Antique Mauve-VY DK	522	205	435	171	218	86
3820	Straw-DK	7	2	6	2	3	1
3822	Straw-LT	319	124	266	104	133	52
3823	Yellow-UL Pale	625	245	521	204	260	102
3825	Pumpkin-Pale	157	61	131	51	65	26
3828	Hazelnut Brown	166	65	138	54	69	27
3829	Old Gold-VY DK	117	45	98	38	49	19
3830	Terra Cotta-MD	290	113	242	95	121	47
3831	Raspberry-DK	117	45	98	38	49	19
3855	Autumn Gold-LT	157	61	131	51	65	26
3856	Mahogany-UL VY LT	2644	1040	2204	867	1102	434
3858	Rosewood-MD	527	207	440	173	220	86
3859	Rosewood-LT	301	117	251	98	125	49
3860	Cocoa	358	140	299	117	149	59
3862	Mocha Beige-DK	765	301	638	251	319	125
3864	Mocha Beige-LT	749	293	624	245	312	122

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	184	72	177	69	171	67
223	Shell Pink-LT	195	76	188	73	181	71
300	Mahogany-VY DK	771	303	741	291	714	281
326	Rose-VY DK	20	8	19	8	19	7
355	Terra Cotta-DK	80	31	77	30	74	29
356	Terra Cotta-MD	151	59	145	57	140	55
367	Pistachio Green-DK	58	22	56	21	54	21
407	Desert Sand-DK	120	47	115	45	111	43
413	Pewter Gray-DK	27	10	26	10	25	9
420	Hazelnut Brown-DK	80	31	77	30	74	29
437	Tan-LT	220	86	212	83	204	80
445	Lemon-LT	70	27	67	26	65	25
471	Avocado Green-VY LT	102	40	98	38	94	37
472	Avocado Green-UL LT	333	131	321	126	309	121
503	Blue Green-MD	9	3	8	3	8	3
522	Fern Green	23	9	22	8	21	8
523	Fern Green-LT	142	55	136	53	131	51
580	Moss Green-DK	217	85	209	82	201	79
581	Moss Green	48	18	46	17	44	17
611	Drab Brown	148	58	143	56	137	54
613	Drab Brown-VY LT	415	163	399	156	384	151
642	Beige Gray-DK	204	80	197	77	189	74
644	Beige Gray-MD	50	19	48	19	46	18
645	Beaver Gray-VY DK	202	79	194	76	187	73
647	Beaver Gray-MD	192	76	185	73	178	70
732	Olive Green	82	32	79	30	76	29
734	Olive Green-LT	132	52	127	50	122	48
738	Tan-VY LT	709	279	682	268	657	258
745	Yellow-LT Pale	1154	454	1110	437	1069	421
758	Terra Cotta-VY LT	306	120	294	116	283	111

760	Salmon	138	54	133	52	128	50
782	Topaz-DK	6	2	6	2	5	2
801	Coffee Brown-DK	577	227	555	218	534	210
816	Garnet	19	7	18	7	17	7
830	Golden Olive-DK	492	194	474	186	456	179
833	Golden Olive-LT	132	52	127	50	122	48
834	Golden Olive-VY LT	164	64	158	62	152	59
839	Beige Brown-DK	162	63	156	61	150	59
895	Hunter Green-VY DK	207	81	199	78	191	75
909	Emerald Green-VY DK	12	4	11	4	11	4
911	Emerald Green-MD	26	10	25	10	24	9
924	Gray Green--VY DK	29	11	28	10	27	10
926	Gray Green-MD	20	8	19	8	19	7
931	Antique Blue-MD	3	1	3	1	3	1
935	Avocado Green-DK	505	199	486	191	468	184
937	Avocado Green-MD	613	241	589	232	567	223
938	Coffee Brown-UL DK	1202	473	1156	455	1113	438
945	Tawny	219	86	210	82	203	79
975	Golden Brown-DK	141	55	136	53	131	51
976	Golden Brown-MD	3	1	3	1	3	1
3012	Khaki Green-MD	264	104	254	100	245	96
3013	Khaki Green-LT	190	74	183	71	176	69
3021	Brown Gray-VY DK	202	79	194	76	187	73
3022	Brown Gray-MD	189	74	182	71	175	69
3023	Brown Gray-LT	34	13	33	12	31	12
3032	Mocha Brown-MD	157	61	151	59	145	57
3041	Antique Violet-MD	44	17	42	17	41	16
3045	Yellow Beige-DK	215	84	206	81	199	78
3047	Yellow Beige-LT	475	186	457	179	440	173
3052	Green Gray-MD	228	89	219	86	211	83
3064	Desert Sand	527	207	507	199	488	192
3328	Salmon-DK	308	121	296	116	285	112
3346	Hunter Green	364	143	350	137	337	132
3347	Yellow Green-MD	229	90	220	87	212	83
3362	Pine Green-DK	474	186	456	179	439	173
3363	Pine Green-MD	180	71	173	68	167	65
3364	Pine Green	371	145	357	140	343	135
3371	Black Brown	1685	663	1620	638	1560	614
3685	Mauve-DK	50	19	48	19	46	18
3712	Salmon-MD	114	45	110	43	106	41
3721	Shell Pink-DK	261	102	251	98	242	95
3722	Shell Pink-MD	260	102	250	98	241	95
3768	Gray Green-DK	27	10	26	10	25	9
3772	Desert Sand-VY DK	522	205	502	197	483	190
3778	Terra Cotta-LT	261	102	251	98	242	95
3787	Brown Gray-DK	310	122	298	117	287	113
3799	Pewter Gray-VY DK	171	67	164	64	158	62
3802	Antique Mauve-VY DK	209	82	201	79	193	76
3820	Straw-DK	3	1	3	1	3	1
3822	Straw-LT	127	50	123	48	118	46
3823	Yellow-UL Pale	250	98	240	94	231	91
3825	Pumpkin-Pale	63	24	60	24	58	23
3828	Hazelnut Brown	66	26	64	25	61	24
3829	Old Gold-VY DK	47	18	45	17	43	17
3830	Terra Cotta-MD	116	45	111	44	107	42
3831	Raspberry-DK	47	18	45	17	43	17
3855	Autumn Gold-LT	63	24	60	24	58	23
3856	Mahogany-UL VY LT	1058	416	1017	400	979	385
3858	Rosewood-MD	211	83	203	80	195	77

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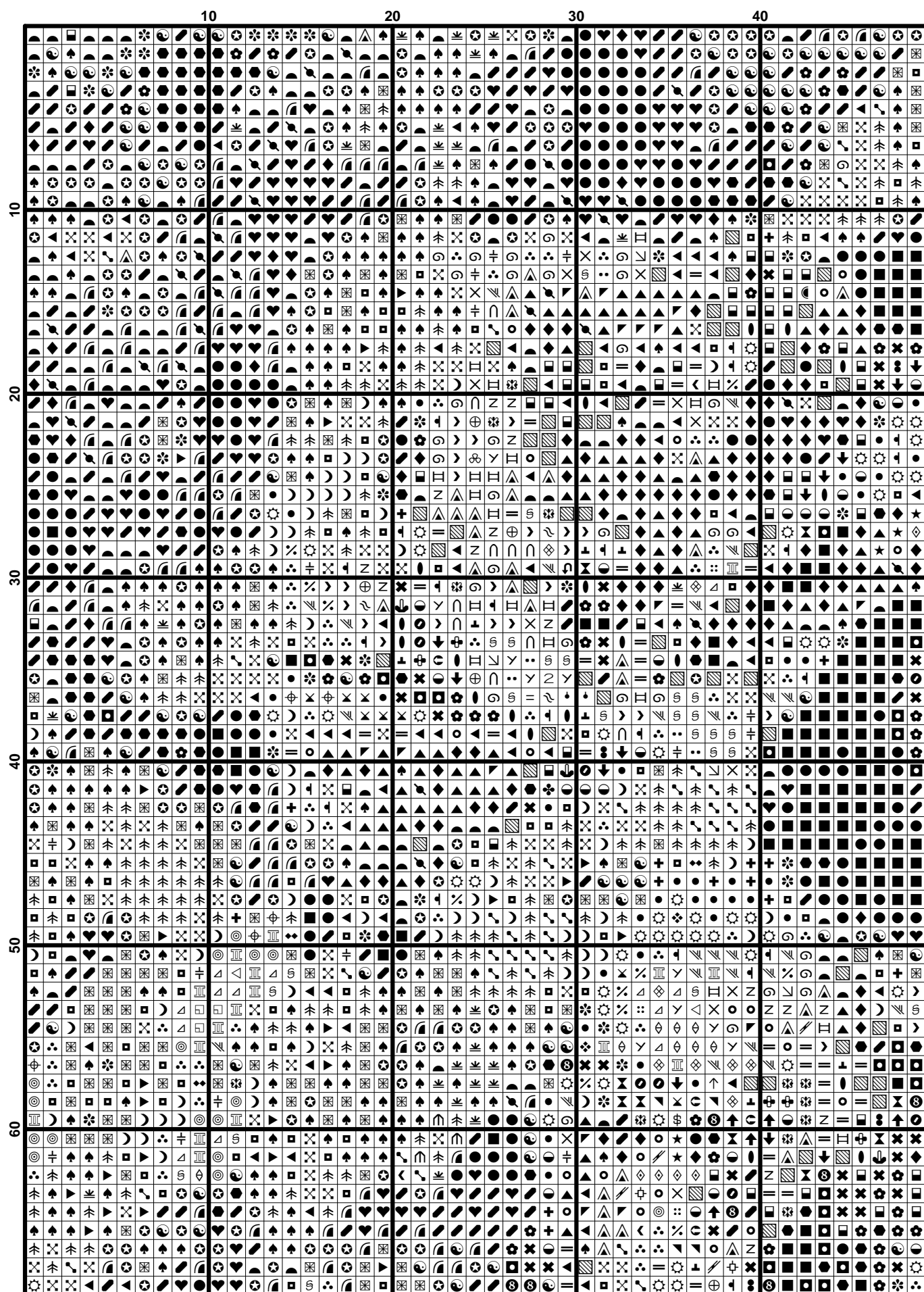
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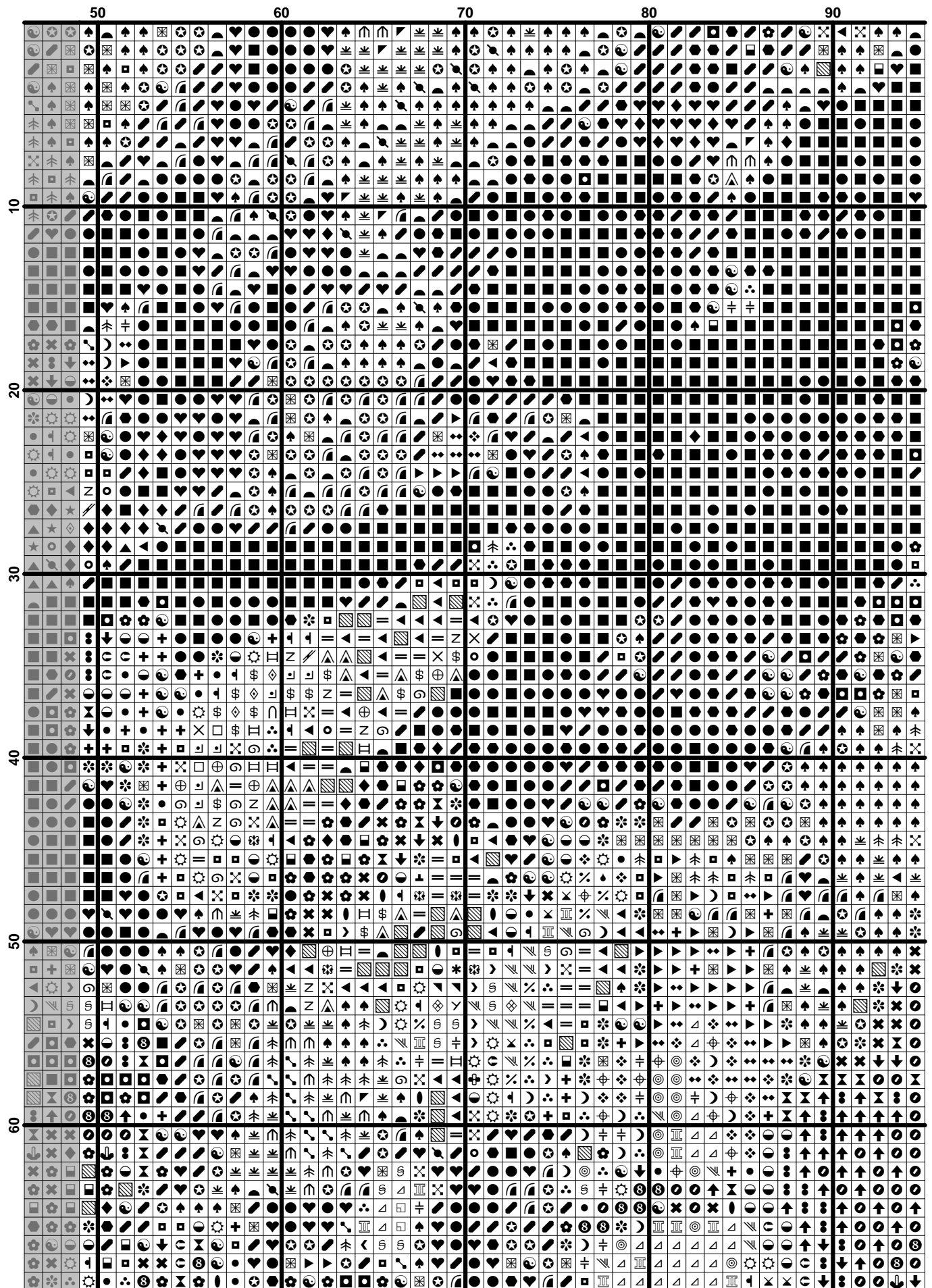
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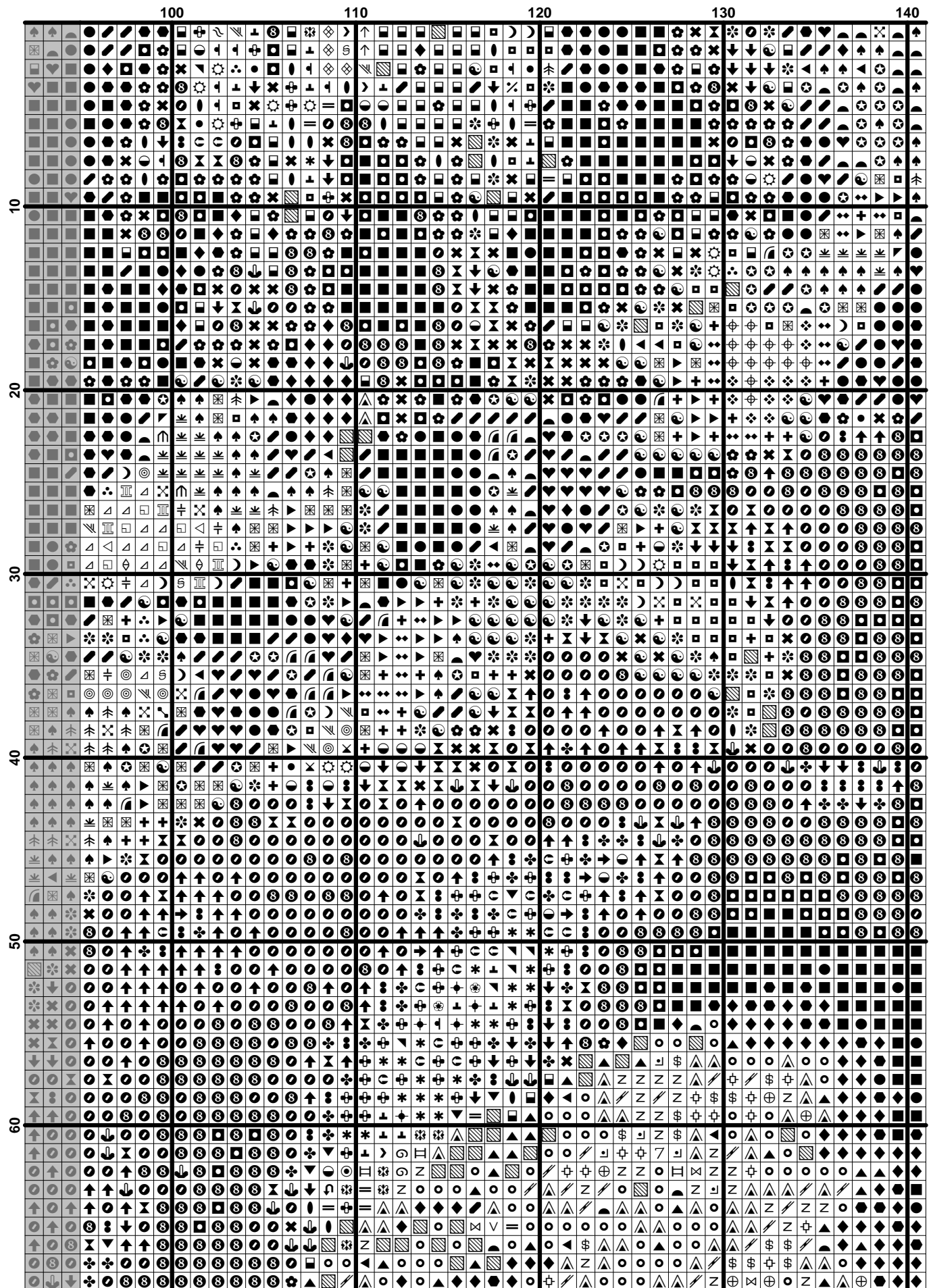
3859	Rosewood-LT	120	47	116	45	111	43
3860	Cocoa	143	56	138	54	133	52
3862	Mocha Beige-DK	306	120	294	116	283	111
3864	Mocha Beige-LT	300	117	288	113	277	109

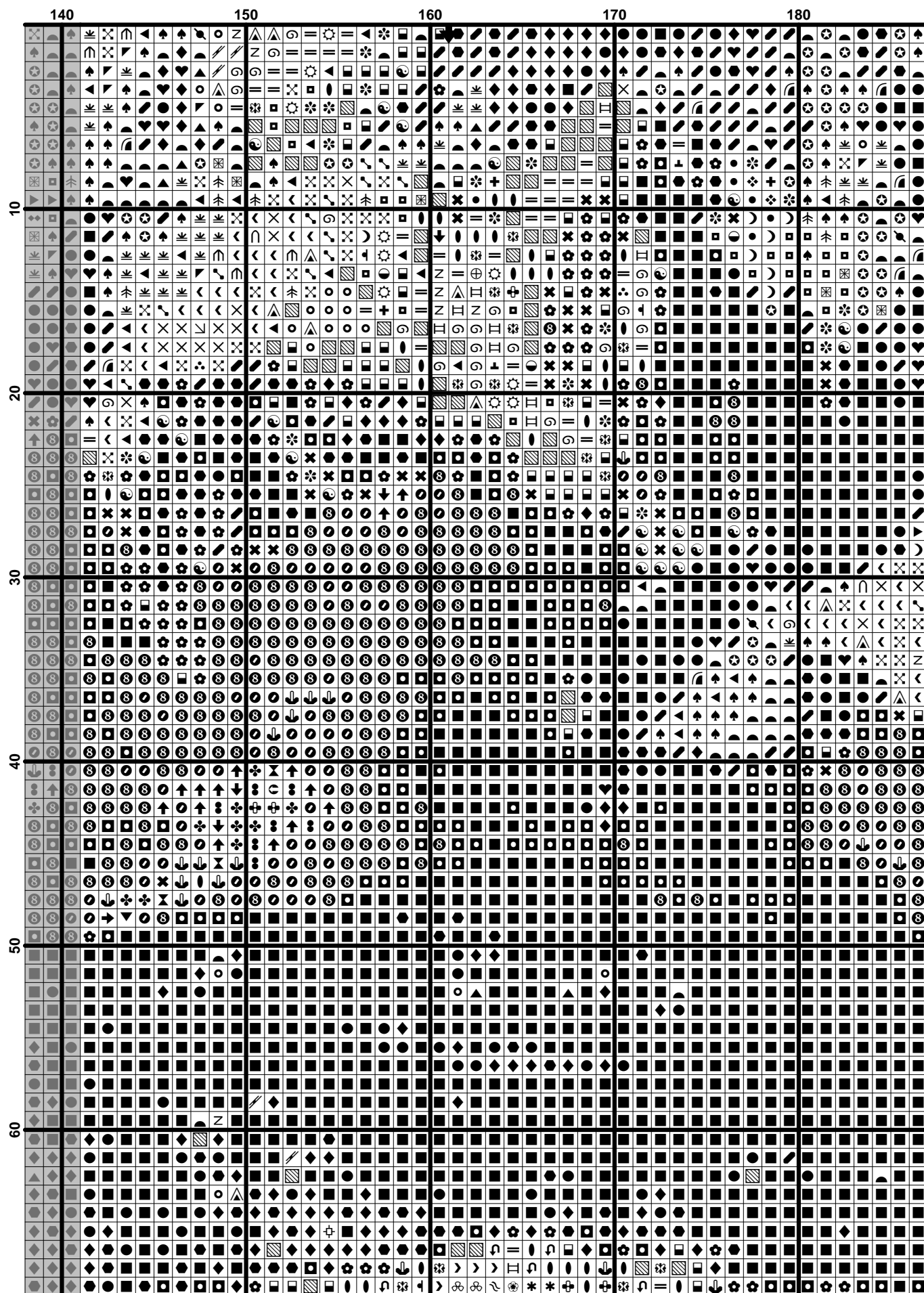
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	165	64	154	60	144	56
223	Shell Pink-LT	174	68	163	64	152	60
300	Mahogany-VY DK	689	271	643	253	602	237
326	Rose-VY DK	18	7	17	7	16	6
355	Terra Cotta-DK	71	28	67	26	62	24
356	Terra Cotta-MD	135	53	126	49	118	46
367	Pistachio Green-DK	52	20	49	19	46	17
407	Desert Sand-DK	107	42	100	39	93	37
413	Pewter Gray-DK	24	9	22	8	21	8
420	Hazelnut Brown-DK	71	28	67	26	62	24
437	Tan-LT	197	77	184	72	172	68
445	Lemon-LT	62	24	58	23	55	21
471	Avocado Green-VY LT	91	35	85	33	79	31
472	Avocado Green-UL LT	298	117	278	109	260	102
503	Blue Green-MD	8	3	7	2	7	2
522	Fern Green	21	8	19	7	18	7
523	Fern Green-LT	127	50	118	46	111	43
580	Moss Green-DK	194	76	181	71	170	66
581	Moss Green	42	16	40	15	37	14
611	Drab Brown	132	52	124	49	116	46
613	Drab Brown-VY LT	370	145	346	136	324	127
642	Beige Gray-DK	183	71	170	67	160	62
644	Beige Gray-MD	44	17	41	16	39	15
645	Beaver Gray-VY DK	180	71	168	66	158	62
647	Beaver Gray-MD	172	68	160	63	150	59
732	Olive Green	73	28	68	26	64	25
734	Olive Green-LT	118	46	110	43	103	41
738	Tan-VY LT	633	249	591	232	554	218
745	Yellow-LT Pale	1031	406	962	379	902	355
758	Terra Cotta-VY LT	273	107	255	100	239	94
760	Salmon	123	48	115	45	108	42
782	Topaz-DK	5	2	5	2	5	2
801	Coffee Brown-DK	515	203	481	189	451	177
816	Garnet	17	6	16	6	15	6
830	Golden Olive-DK	440	173	410	161	385	151
833	Golden Olive-LT	118	46	110	43	103	41
834	Golden Olive-VY LT	147	57	137	53	128	50
839	Beige Brown-DK	145	57	135	53	127	50
895	Hunter Green-VY DK	185	72	172	67	161	63
909	Emerald Green-VY DK	10	4	10	4	9	3
911	Emerald Green-MD	23	9	22	8	20	8
924	Gray Green--VY DK	26	10	24	9	23	8
926	Gray Green-MD	18	7	17	7	16	6
931	Antique Blue-MD	3	1	2	1	2	1
935	Avocado Green-DK	451	177	421	166	395	155
937	Avocado Green-MD	547	215	511	201	479	188
938	Coffee Brown-UL DK	1074	422	1002	394	939	370
945	Tawny	195	77	182	71	171	67

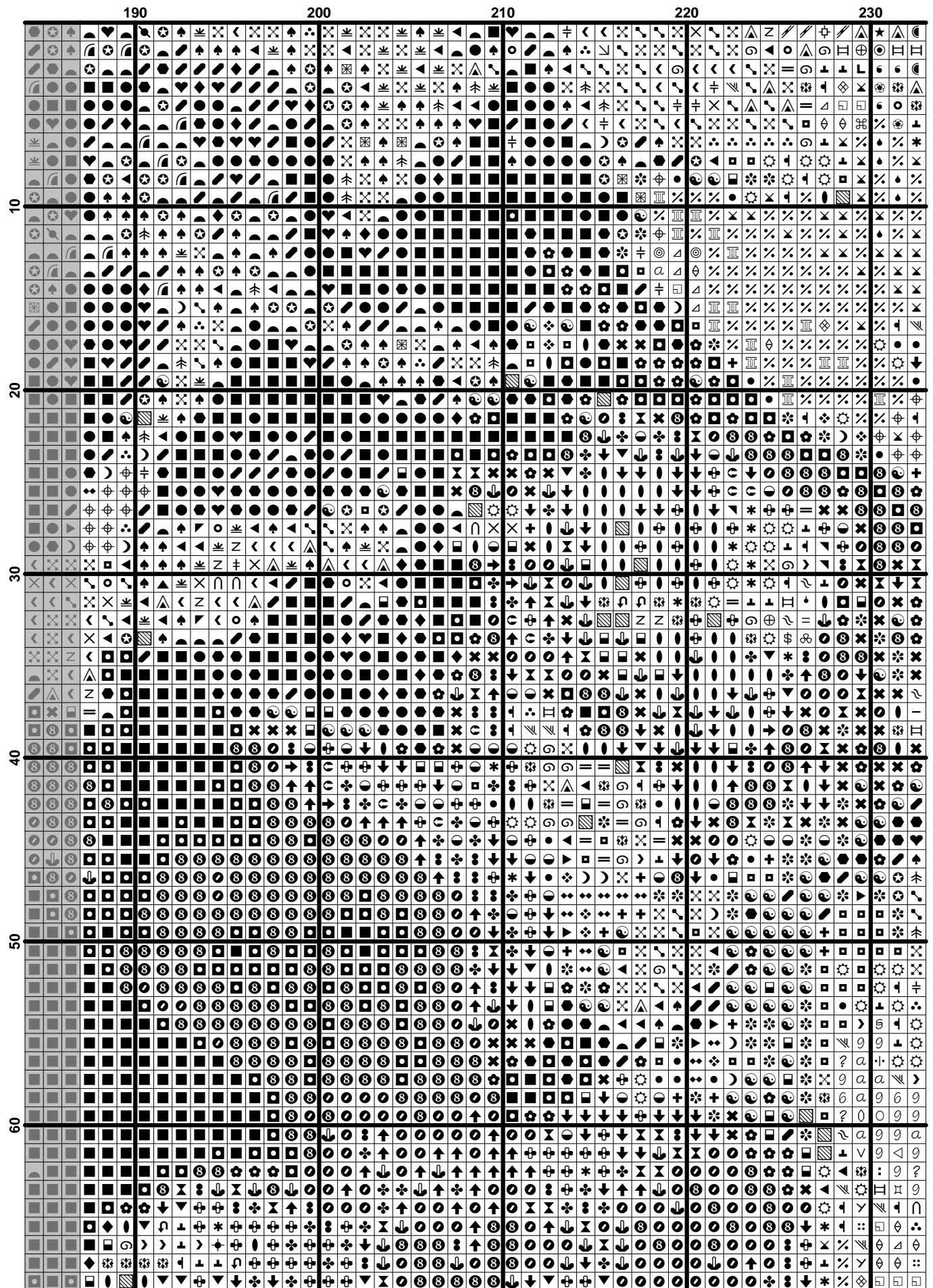
975	Golden Brown-DK	126	50	118	46	110	43
976	Golden Brown-MD	3	1	2	1	2	1
3012	Khaki Green-MD	236	93	220	86	206	81
3013	Khaki Green-LT	170	66	158	62	149	58
3021	Brown Gray-VY DK	180	71	168	66	158	62
3022	Brown Gray-MD	169	66	158	62	148	58
3023	Brown Gray-LT	30	12	28	11	26	10
3032	Mocha Brown-MD	140	55	131	51	123	48
3041	Antique Violet-MD	39	15	37	14	34	14
3045	Yellow Beige-DK	192	75	179	70	168	66
3047	Yellow Beige-LT	424	167	396	155	371	146
3052	Green Gray-MD	204	80	190	74	178	70
3064	Desert Sand	471	185	439	173	412	162
3328	Salmon-DK	275	108	257	101	241	95
3346	Hunter Green	325	127	303	119	284	111
3347	Yellow Green-MD	204	80	191	75	179	70
3362	Pine Green-DK	423	167	395	155	370	146
3363	Pine Green-MD	161	63	150	59	141	55
3364	Pine Green	331	130	309	121	290	114
3371	Black Brown	1504	592	1404	553	1316	518
3685	Mauve-DK	44	17	41	16	39	15
3712	Salmon-MD	102	40	95	37	89	35
3721	Shell Pink-DK	233	91	218	85	204	80
3722	Shell Pink-MD	232	91	217	85	203	80
3768	Gray Green-DK	24	9	23	8	21	8
3772	Desert Sand-VY DK	466	183	435	171	408	160
3778	Terra Cotta-LT	233	91	218	85	204	80
3787	Brown Gray-DK	276	109	258	101	242	95
3799	Pewter Gray-VY DK	152	60	142	56	133	52
3802	Antique Mauve-VY DK	186	73	174	68	163	64
3820	Straw-DK	3	1	2	1	2	1
3822	Straw-LT	114	44	106	41	100	39
3823	Yellow-UL Pale	223	87	208	82	195	77
3825	Pumpkin-Pale	56	22	52	20	49	19
3828	Hazelnut Brown	59	23	55	22	52	20
3829	Old Gold-VY DK	42	16	39	15	37	14
3830	Terra Cotta-MD	104	41	97	38	91	35
3831	Raspberry-DK	42	16	39	15	37	14
3855	Autumn Gold-LT	56	22	52	20	49	19
3856	Mahogany-UL VY LT	944	372	881	347	826	325
3858	Rosewood-MD	188	74	176	69	165	65
3859	Rosewood-LT	107	42	100	39	94	37
3860	Cocoa	128	50	119	47	112	44
3862	Mocha Beige-DK	273	107	255	100	239	94
3864	Mocha Beige-LT	267	105	250	98	234	92

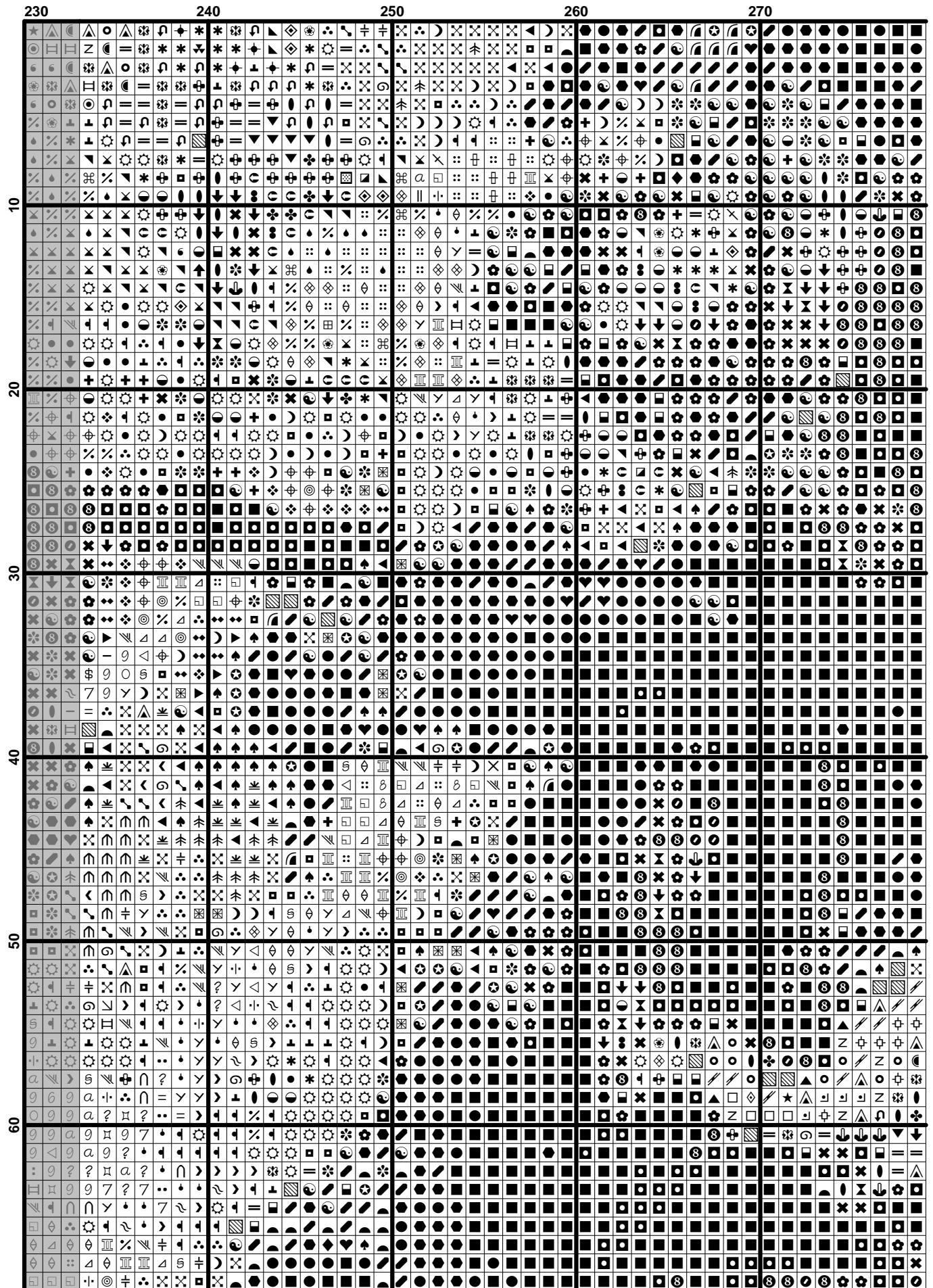


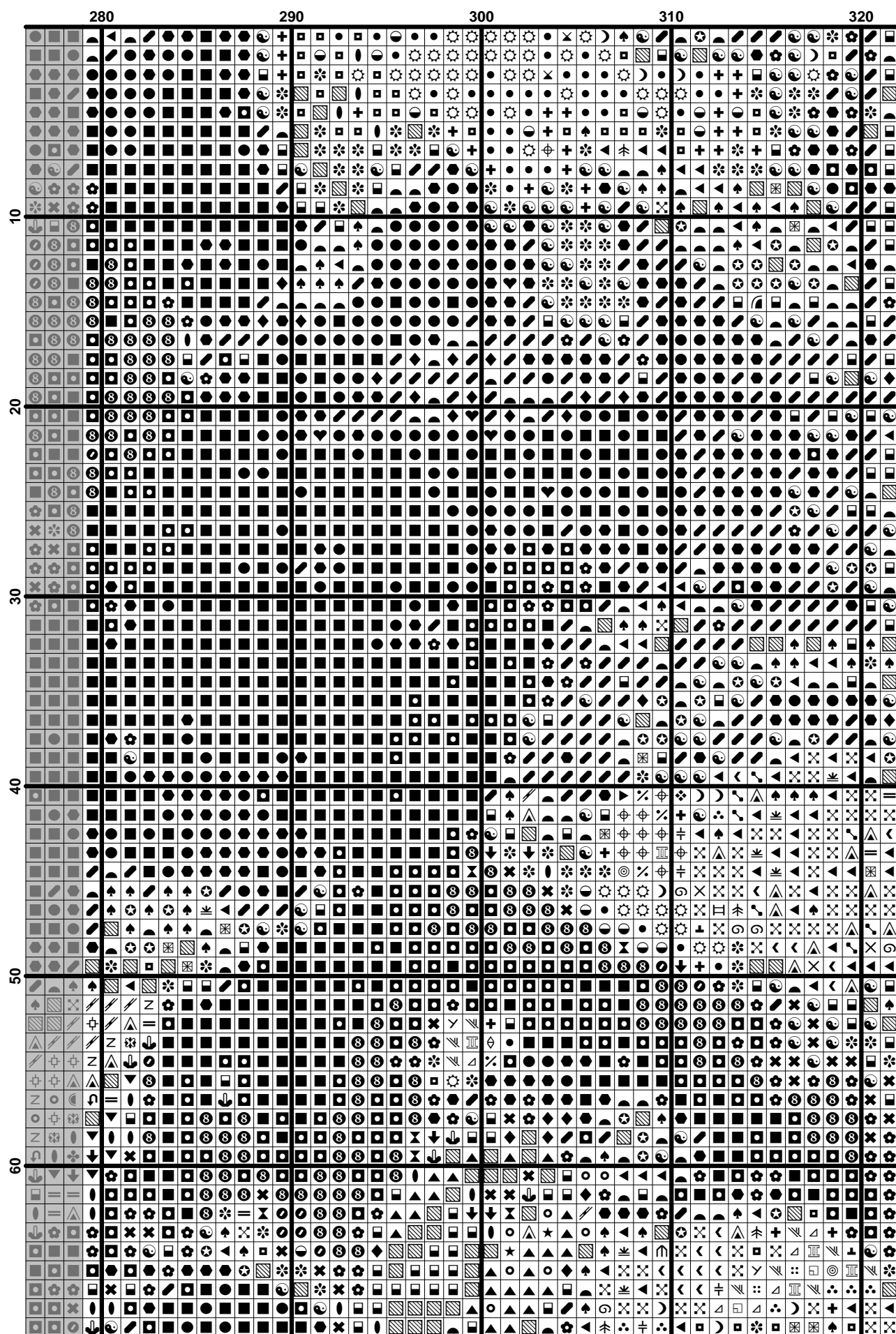




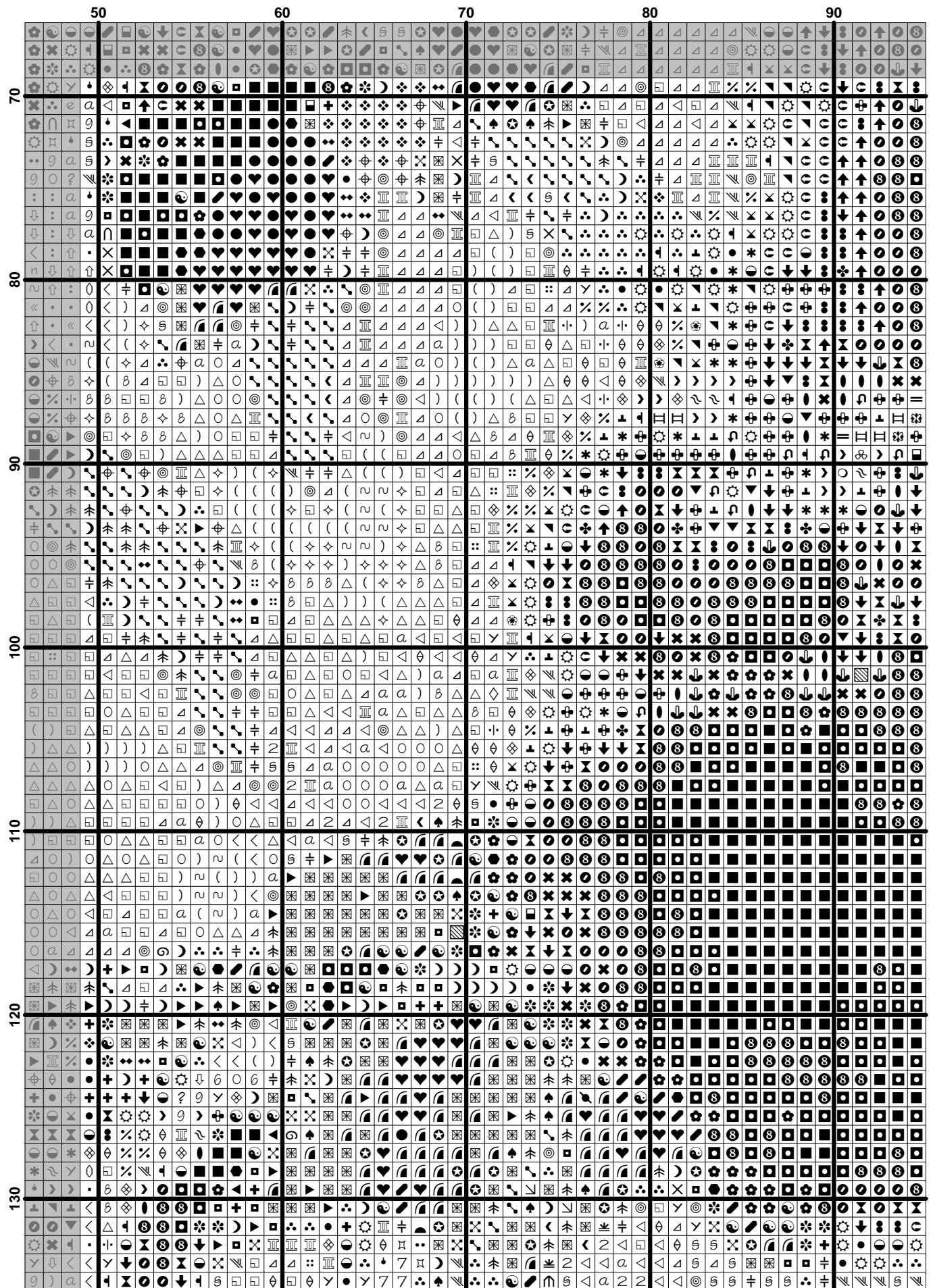


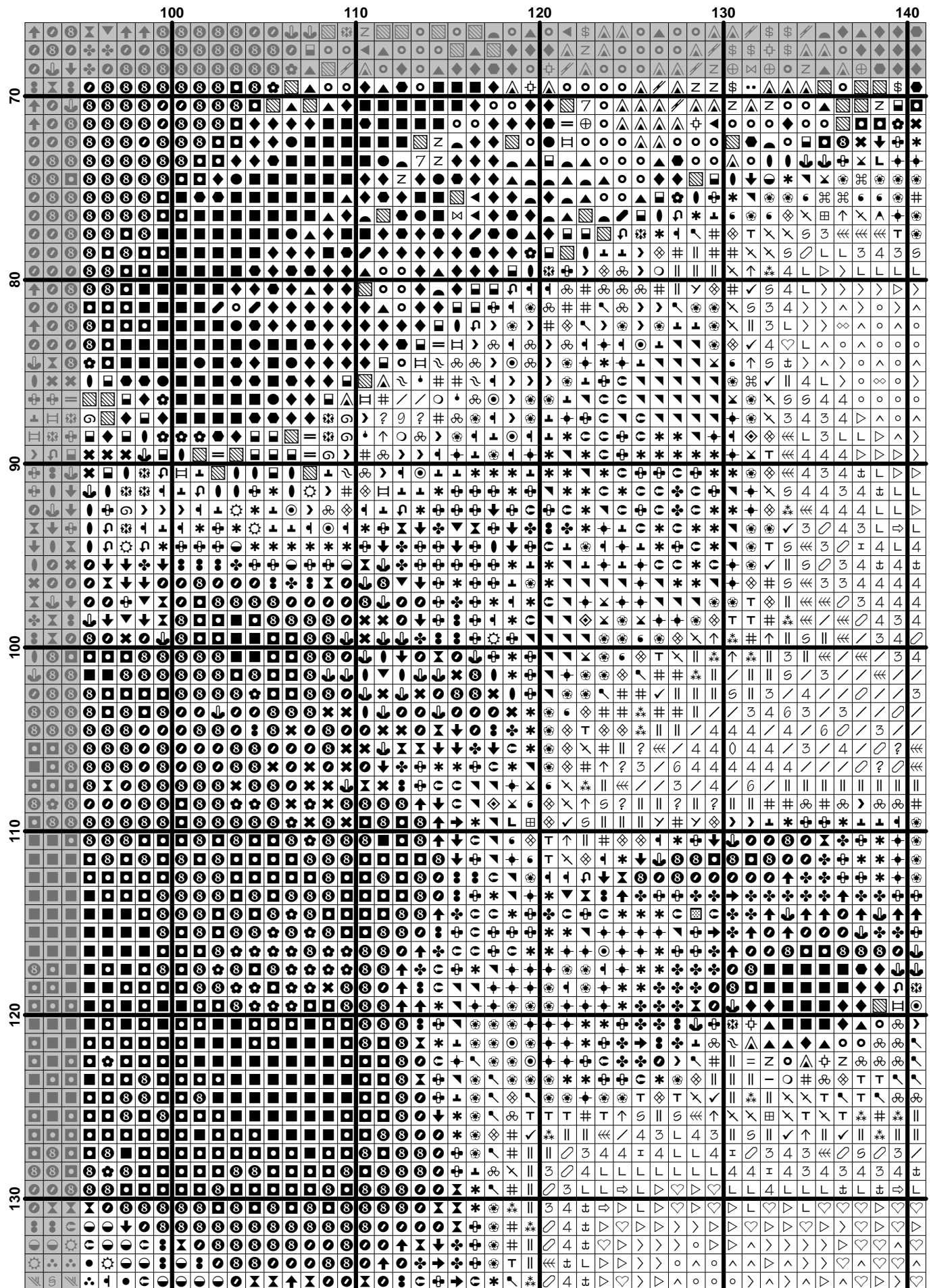






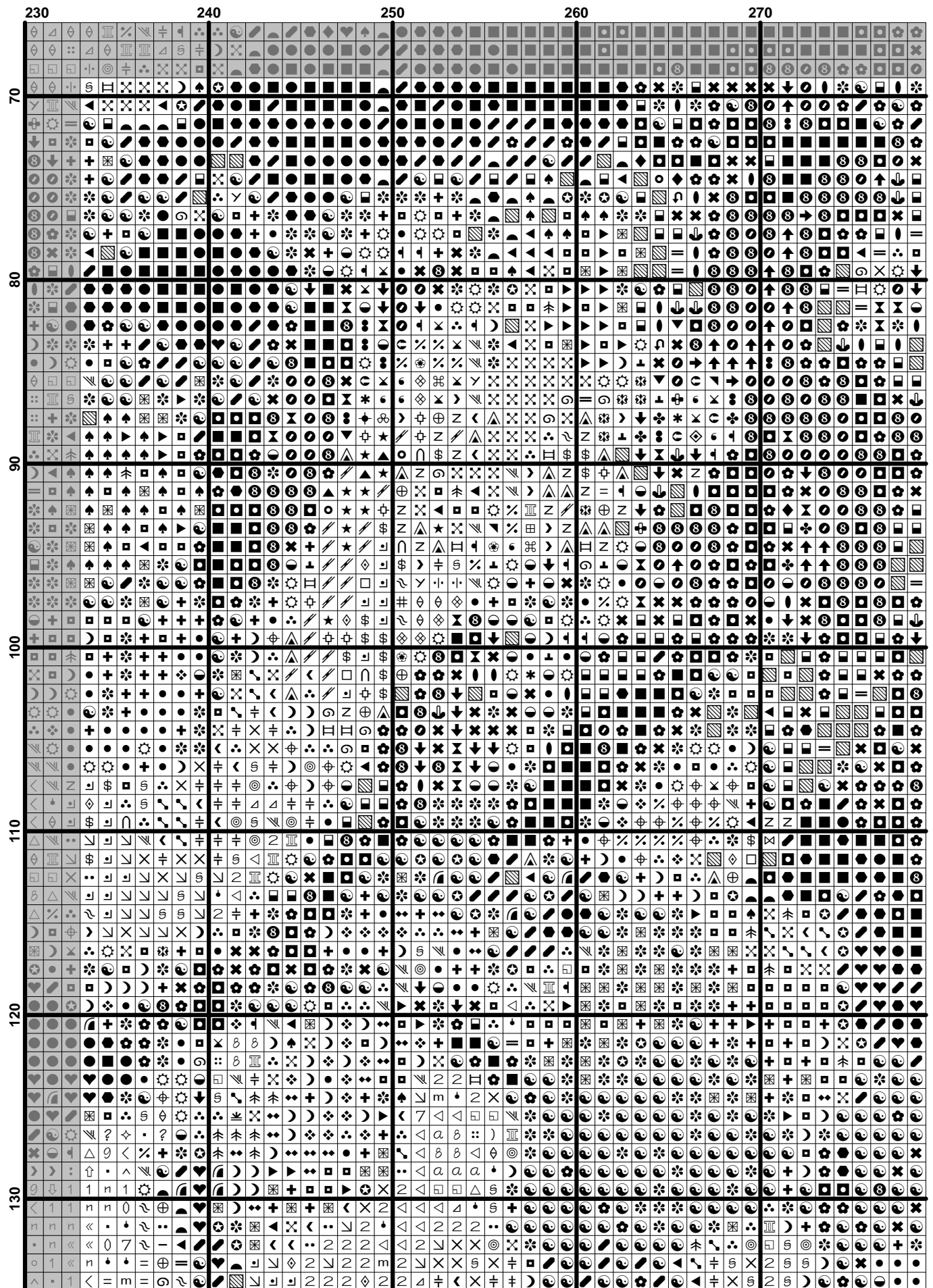
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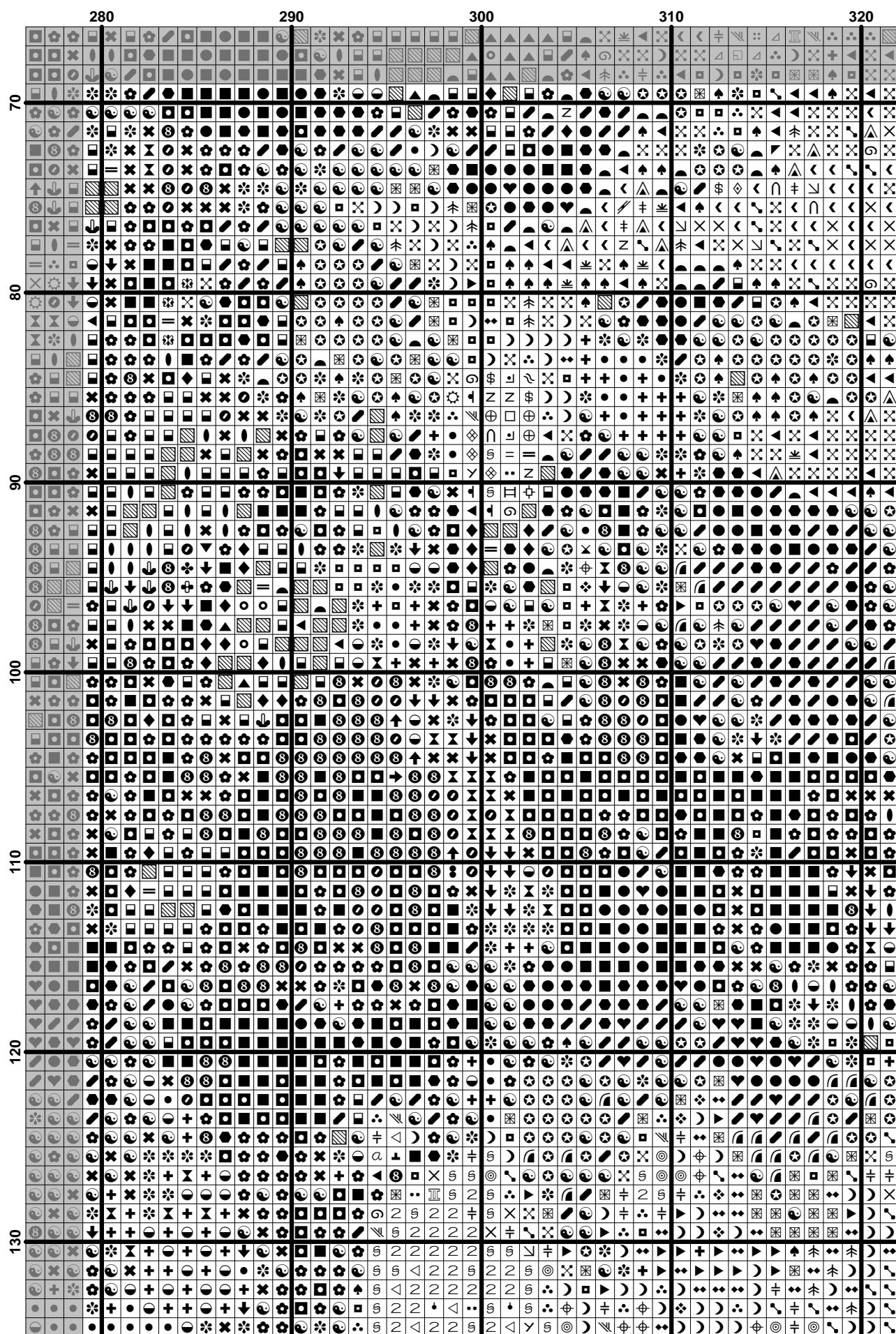




	140	150	160	170	180
70					
80					
90					
100					
110					
120					
130					

	190	200	210	220	230
70					
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$$(22) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (23)$$

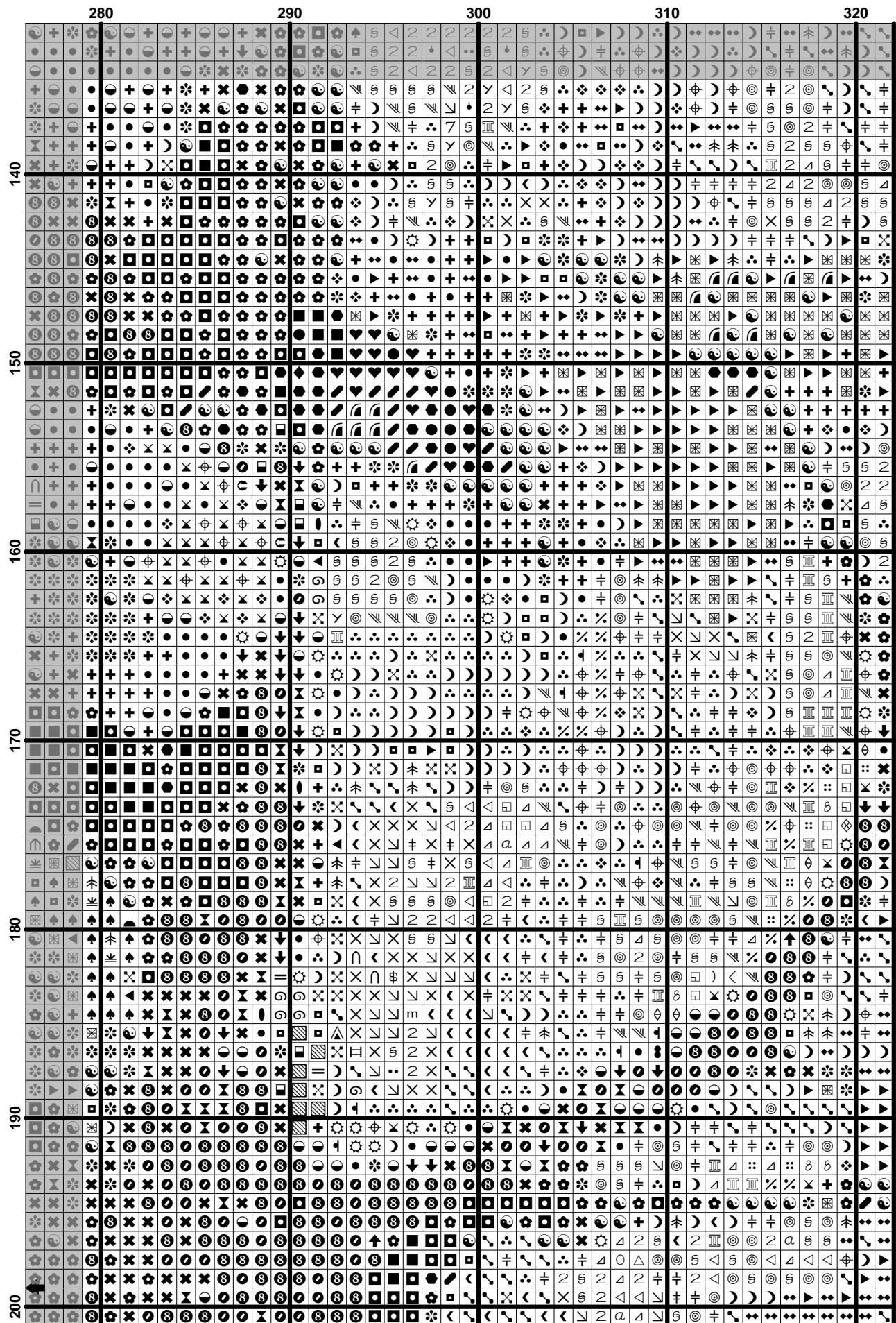
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$$(24) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (25)$$

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141	♥	♥	♥	♥	♥
142	♥	♥	♥	♥	♥
143	♥	♥	♥	♥	♥
144	♥	♥	♥	♥	♥
145	♥	♥	♥	♥	♥
146	♥	♥	♥	♥	♥
147	♥	♥	♥	♥	♥
148	♥	♥	♥	♥	♥
149	♥	♥	♥	♥	♥
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151	♥	♥	♥	♥	♥
152	♥	♥	♥	♥	♥
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155	♥	♥	♥	♥	♥
156	♥	♥	♥	♥	♥
157	♥	♥	♥	♥	♥
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159	♥	♥	♥	♥	♥
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161	♥	♥	♥	♥	♥
162	♥	♥	♥	♥	♥
163	♥	♥	♥	♥	♥
164	♥	♥	♥	♥	♥
165	♥	♥	♥	♥	♥
166	♥	♥	♥	♥	♥
167	♥	♥	♥	♥	♥
168	♥	♥	♥	♥	♥
169	♥	♥	♥	♥	♥
170	♥	♥	♥	♥	♥
171	♥	♥	♥	♥	♥
172	♥	♥	♥	♥	♥
173	♥	♥	♥	♥	♥
174	♥	♥	♥	♥	♥
175	♥	♥	♥	♥	♥
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177	♥	♥	♥	♥	♥
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184	♥	♥	♥	♥	♥
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186	♥	♥	♥	♥	♥
187	♥	♥	♥	♥	♥
188	♥	♥	♥	♥	♥
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197	♥	♥	♥	♥	♥
198	♥	♥	♥	♥	♥
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$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$



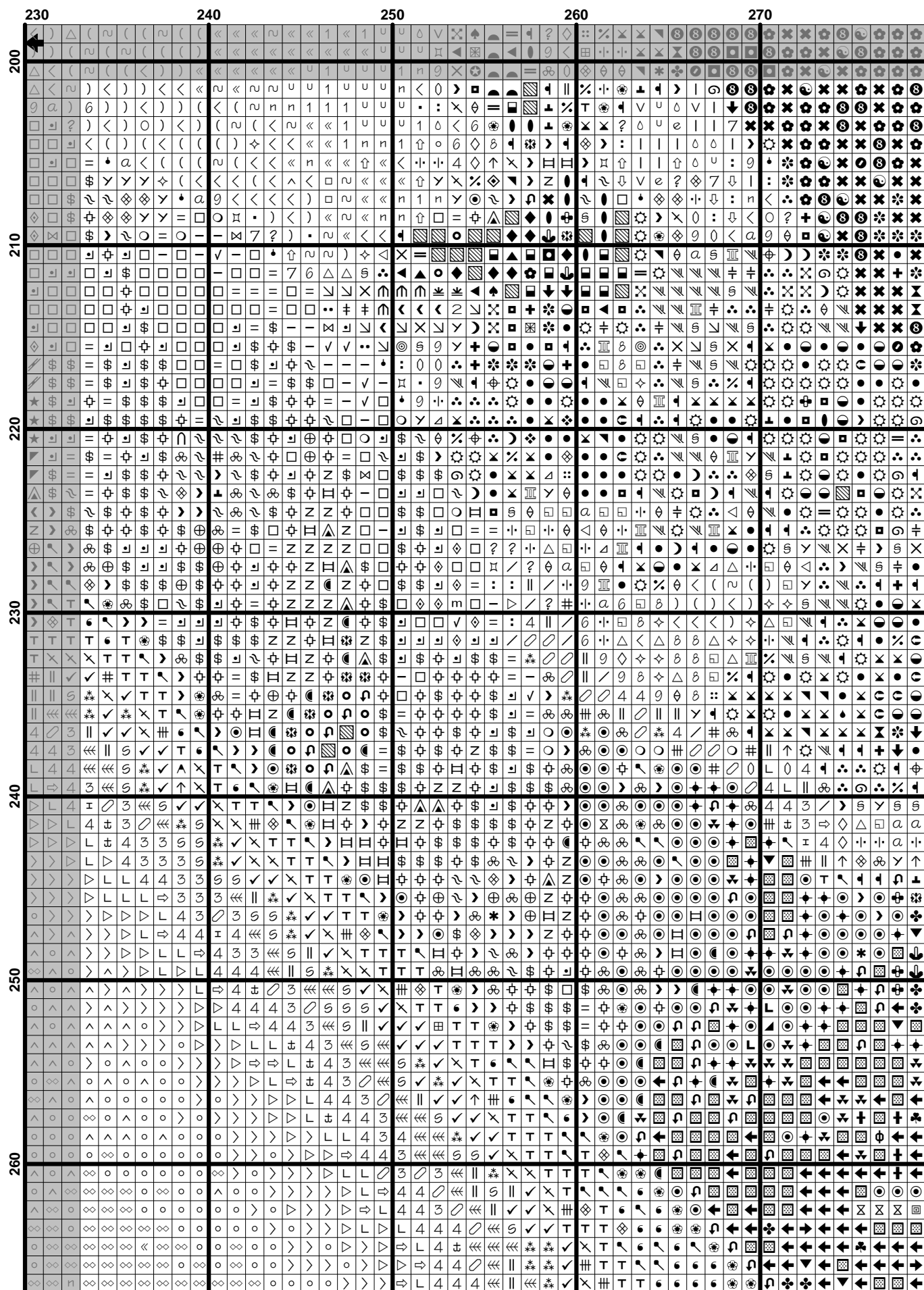
$$(29) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (30)$$

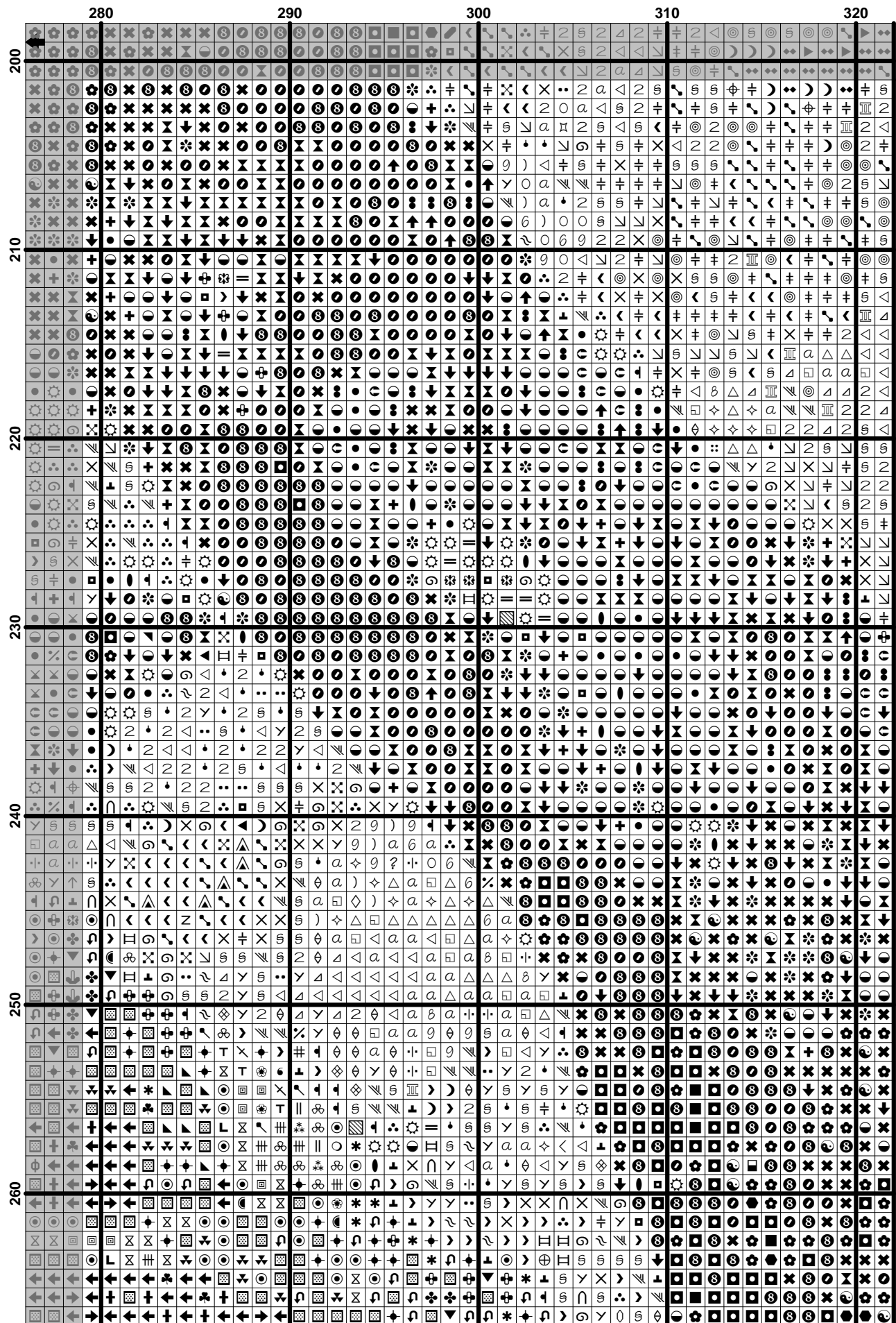
$$(30) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (31)$$

$$(31) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	140	150	160	170	180
200	→	→	→	→	→
210	→	→	→	→	→
220	→	→	→	→	→
230	→	→	→	→	→
240	→	→	→	→	→
250	→	→	→	→	→
260	→	→	→	→	→

$$(33) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$





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

[illegible]

[illegible]

[illegible]

	190	200	210	220	230
270					
280					
290					
300					
310					
320					
330					

[illegible]



[illegible]

[illegible]

[illegible]

