

822 Bride of Spring



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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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Bride of Spring

Stitch Count	
Horizontal:	260
Vertical:	363

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:	47	18.48	66	25.87	42	16.17	58	22.64	37	14.375	52	20.125
Including Margins:	63	25	82	32	58	23	74	29	53	21	68	27
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	65	25.87	92	36.21	54	21.56	77	30.18	27	10.78	38	15.09
Including Margins:	81	32	108	43	70	28	93	37	43	17	54	22
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	26	10.34	36	14.48	25	9.95	35	13.93	24	9.58	34	13.41
Including Margins:	42	17	52	21	41	16	51	20	40	16	50	20
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	23	9.24	33	12.93	21	8.62	30	12.07	20	8.08	28	11.31
Including Margins:	39	16	49	19	37	15	46	19	36	15	44	18

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
➤	224	Shell Pink-VY LT
■	311	Navy Blue-MD
⦿	318	Steel Gray-LT
⊕	334	Baby Blue-MD
↖	341	Blue Violet-LT
⊕	367	Pistachio Green-DK
⊕	371	Mustard
✱	414	Steel Gray-DK
○	415	Pearl Gray
⦿	420	Hazelnut Brown-DK
♠	435	Brown-VY LT
⬆	436	Tan
≡	437	Tan-LT
⦿	451	Shell Gray-DK
⬆	452	Shell Gray-MD
⦿	502	Blue Green
⦿	503	Blue Green-MD
✱	518	Wedgewood-LT
⦿	519	Sky Blue
⦿	522	Fern Green
➤	562	Jade-MD
⦿	597	Turquoise
➔	610	Drab Brown-DK
⦿	640	Beige Gray-VY DK
○	646	Beaver Gray-DK
⦿	647	Beaver Gray-MD
⬆	648	Beaver Gray-LT
↘	729	Old Gold-MD
◁	738	Tan-VY LT
⬆	758	Terra Cotta-VY LT
↑	762	Pearl Gray-VY LT
○	775	Baby Blue-VY LT
⦿	782	Topaz-DK
⦿	793	Cornflower Blue-MD
⇒	794	Cornflower Blue-LT
⦿	798	Delft Blue-DK
⬆	799	Delft Blue-MD
↘	800	Delft Blue-Pale
□	809	Delft Blue
⬆	813	Blue-LT
✱	826	Blue-MD
♡	827	Blue-VY LT
★	841	Beige Brown-LT
⦿	926	Gray Green-MD
⬆	927	Gray Green-LT
⦿	931	Antique Blue-MD
⦿	932	Antique Blue-LT

✱	943	Bright Green-MD
⦿	945	Tawny
↘	950	Desert Sand-LT
7	966	Baby Green-MD
↘	977	Golden Brown-LT
◆	991	Aquamarine-DK
=	992	Aquamarine-MD
+	3024	Brown Gray-VY LT
⦿	3032	Mocha Brown-MD
Z	3042	Antique Violet-LT
⬆	3052	Green Gray-MD
⦿	3064	Desert Sand
^	3072	Beaver Gray-VY LT
○	3325	Baby Blue-LT
⦿	3364	Pine Green
m	3727	Antique Mauve-LT
H	3743	Antique Violet-VY LT
⬆	3747	Blue Violet-VY LT
⦿	3750	Antique Blue-VY DK
Z	3752	Antique Blue-VY LT
c	3753	Antique Blue-UL VY LT
4	3755	Baby Blue
•	3756	Baby Blue-UL VY LT
+	3760	Wedgewood-MD
⦿	3765	Peacock Blue-VY DK
☆	3766	Peacock Blue-LT
✱	3768	Gray Green-DK
)	3774	Desert Sand-VY LT
↖	3778	Terra Cotta-LT
⬆	3782	Mocha Brown-LT
⬆	3787	Brown Gray-DK
●	3808	Turquoise-UL VY DK
✱	3809	Turquoise-VY DK
⦿	3810	Turquoise-DK
⦿	3812	Sea Green-VY DK
⦿	3816	Celadon Green-MD
⬆	3829	Old Gold-VY DK
↑	3836	Grape-LT
—	3841	Baby Blue-Pale
⦿	3842	Wedgewood-DK
⦿	3847	Teal Green-DK
✱	3848	Teal Green-MD
↓	3850	Bright Green-DK
⦿	3852	Straw-VY DK
⬆	3856	Mahogany-UL VY LT
⬆	3861	Cocoa-LT
c	3863	Mocha Beige-MD
⦿	3864	Mocha Beige-LT
L	3866	Mocha Brown-UL VY LT

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

Symbol	DMC1	Name1	DMC2	Name2
▲	645	Beaver Gray-VY DK	646	Beaver Gray-DK
✱	3864	Mocha Beige-LT	407	Desert Sand-DK
Ⓢ	3864	Mocha Beige-LT	758	Terra Cotta-VY LT
♦♦	451	Shell Gray-DK	841	Beige Brown-LT
>	3743	Antique Violet-VY LT	3753	Antique Blue-UL VY LT
♂	3752	Antique Blue-VY LT	3753	Antique Blue-UL VY LT
=	3747	Blue Violet-VY LT	3753	Antique Blue-UL VY LT
🦫	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
?	3024	Brown Gray-VY LT	415	Pearl Gray
▲	3861	Cocoa-LT	927	Gray Green-LT
◇	3778	Terra Cotta-LT	402	Mahogany-VY LT
▷	318	Steel Gray-LT	415	Pearl Gray
✕	414	Steel Gray-DK	927	Gray Green-LT
†	610	Drab Brown-DK	611	Drab Brown
♂	407	Desert Sand-DK	437	Tan-LT
Ⓢ	738	Tan-VY LT	758	Terra Cotta-VY LT
Ⓢ	451	Shell Gray-DK	3032	Mocha Brown-MD
▲	931	Antique Blue-MD	932	Antique Blue-LT
Ⓢ	3072	Beaver Gray-VY LT	3024	Brown Gray-VY LT
⦿	930	Antique Blue-DK	3768	Gray Green-DK
:	762	Pearl Gray-VY LT	3756	Baby Blue-UL VY LT
○	950	Desert Sand-LT	452	Shell Gray-MD
卅	3859	Rosewood-LT	451	Shell Gray-DK
♂	950	Desert Sand-LT	224	Shell Pink-VY LT
♣	3768	Gray Green-DK	3815	Celadon Green-DK
♂	778	Antique Mauve-VY LT	842	Beige Brown-VY LT
::	3743	Antique Violet-VY LT	762	Pearl Gray-VY LT
▲	977	Golden Brown-LT	3827	Golden Brown-Pale
↑	3768	Gray Green-DK	317	Pewter Gray
●	3828	Hazelnut Brown	435	Brown-VY LT
	963	Dusty Rose-UL VY LT	3866	Mocha Brown-UL VY LT
♂	3852	Straw-VY DK	420	Hazelnut Brown-DK
✕	3778	Terra Cotta-LT	977	Golden Brown-LT
Ⓢ	927	Gray Green-LT	564	Jade-VY LT
♂	3861	Cocoa-LT	503	Blue Green-MD
♂	3041	Antique Violet-MD	414	Steel Gray-DK
♂	3861	Cocoa-LT	414	Steel Gray-DK
Ⓢ	3042	Antique Violet-LT	928	Gray Green-VY LT
Ⓢ	645	Beaver Gray-VY DK	317	Pewter Gray
♂	317	Pewter Gray	926	Gray Green-MD
\$	3859	Rosewood-LT	841	Beige Brown-LT
✕	437	Tan-LT	402	Mahogany-VY LT
♂	738	Tan-VY LT	3825	Pumpkin-Pale
u	739	Tan-UL VY LT	754	Peach-LT
(948	Peach-VY LT	3774	Desert Sand-VY LT
✕	3852	Straw-VY DK	680	Old Gold-DK
♂	3829	Old Gold-VY DK	420	Hazelnut Brown-DK
⦿	414	Steel Gray-DK	503	Blue Green-MD
◀	3727	Antique Mauve-LT	648	Beaver Gray-LT
	3864	Mocha Beige-LT	841	Beige Brown-LT
#	841	Beige Brown-LT	436	Tan
τ	738	Tan-VY LT	945	Tawny
Ⓢ	453	Shell Gray-LT	3774	Desert Sand-VY LT

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370	Mustard-MD	3859	Rosewood-LT
5	966 Baby Green-MD	472	Avocado Green-UL LT
✓	472 Avocado Green-UL LT	739	Tan-UL VY LT
↖	436 Tan	437	Tan-LT
<	966 Baby Green-MD	3033	Mocha Brown-VY LT
↙	436 Tan	3032	Mocha Brown-MD
▼	3862 Mocha Beige-DK	640	Beige Gray-VY DK
⋮	3820 Straw-DK	977	Golden Brown-LT
⊗	3768 Gray Green-DK	3809	Turquoise-VY DK
▤	3809 Turquoise-VY DK	930	Antique Blue-DK
◀	992 Aquamarine-MD	414	Steel Gray-DK
♣	318 Steel Gray-LT	793	Cornflower Blue-MD
«	225 Shell Pink-UL VY LT	3756	Baby Blue-UL VY LT
∨	950 Desert Sand-LT	613	Drab Brown-VY LT
	436 Tan	3827	Golden Brown-Pale
α	402 Mahogany-VY LT	676	Old Gold-LT
..	676 Old Gold-LT	3856	Mahogany-UL VY LT
⋮	3768 Gray Green-DK	3848	Teal Green-MD
田	435 Brown-VY LT	729	Old Gold-MD
❖	3828 Hazelnut Brown	3863	Mocha Beige-MD
♥	413 Pewter Gray-DK	501	Blue Green-DK
☞	413 Pewter Gray-DK	3787	Brown Gray-DK
⋮	611 Drab Brown	420	Hazelnut Brown-DK
♠	3864 Mocha Beige-LT	437	Tan-LT
≡	3852 Straw-VY DK	782	Topaz-DK
⅓	318 Steel Gray-LT	932	Antique Blue-LT
⊗	3816 Celadon Green-MD	646	Beaver Gray-DK
⊗	502 Blue Green	943	Bright Green-MD
⊗	926 Gray Green-MD	503	Blue Green-MD
/	3774 Desert Sand-VY LT	3689	Mauve-LT
↑	210 Lavender-MD	415	Pearl Gray
⊗	782 Topaz-DK	977	Golden Brown-LT
⊗	3733 Dusty Rose	758	Terra Cotta-VY LT
⊗	3032 Mocha Brown-MD	3052	Green Gray-MD
∞	3689 Mauve-LT	3743	Antique Violet-VY LT
✧	3774 Desert Sand-VY LT	3866	Mocha Brown-UL VY LT
▼	3861 Cocoa-LT	3733	Dusty Rose
3	778 Antique Mauve-VY LT	950	Desert Sand-LT
//	3727 Antique Mauve-LT	3836	Grape-LT
♠	762 Pearl Gray-VY LT	822	Beige Gray-LT
▲	3760 Wedgewood-MD	517	Wedgewood-DK
△	778 Antique Mauve-VY LT	453	Shell Gray-LT
●	931 Antique Blue-MD	3807	Cornflower Blue
↗	3812 Sea Green-VY DK	3847	Teal Green-DK
✕	826 Blue-MD	518	Wedgewood-LT
⊗	3750 Antique Blue-VY DK	3847	Teal Green-DK
⊗	931 Antique Blue-MD	318	Steel Gray-LT
↓	3809 Turquoise-VY DK	3842	Wedgewood-DK
⌋	3866 Mocha Brown-UL VY LT	3689	Mauve-LT
●	311 Navy Blue-MD	3842	Wedgewood-DK
⊗	3812 Sea Green-VY DK	3765	Peacock Blue-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	
210	Lavender-MD	60	23	57	22	51	20
224	Shell Pink-VY LT	100	39	95	37	86	33
225	Shell Pink-UL VY LT	230	90	219	86	197	77
311	Navy Blue-MD	120	47	114	44	103	40
317	Pewter Gray	158	62	150	59	135	53
318	Steel Gray-LT	393	154	374	147	337	132
334	Baby Blue-MD	77	30	73	28	66	25
341	Blue Violet-LT	329	129	314	123	282	111
367	Pistachio Green-DK	30	11	28	11	25	9
370	Mustard-MD	47	18	45	17	41	16
371	Mustard	57	22	54	21	49	19
402	Mahogany-VY LT	95	37	90	35	81	31
407	Desert Sand-DK	95	37	91	35	82	32
413	Pewter Gray-DK	33	12	32	12	29	11
414	Steel Gray-DK	408	160	389	153	350	137
415	Pearl Gray	351	138	335	131	301	118
420	Hazelnut Brown-DK	96	37	91	35	82	32
435	Brown-VY LT	59	23	56	22	51	20
436	Tan	198	77	189	74	170	66
437	Tan-LT	175	68	167	65	150	59
451	Shell Gray-DK	201	79	192	75	173	68
452	Shell Gray-MD	142	55	135	53	122	48
453	Shell Gray-LT	193	75	183	72	165	64
472	Avocado Green-UL LT	38	14	36	14	32	12
501	Blue Green-DK	19	7	18	7	17	6
502	Blue Green	156	61	148	58	134	52
503	Blue Green-MD	175	68	167	65	150	59
517	Wedgewood-DK	122	48	116	45	104	40
518	Wedgewood-LT	289	113	275	108	248	97
519	Sky Blue	64	25	61	24	54	21
522	Fern Green	50	19	48	18	43	16
562	Jade-MD	38	14	37	14	33	12
564	Jade-VY LT	26	10	25	9	22	8
597	Turquoise	61	24	58	22	52	20
610	Drab Brown-DK	85	33	81	31	73	28
611	Drab Brown	57	22	55	21	49	19
613	Drab Brown-VY LT	31	12	29	11	26	10
640	Beige Gray-VY DK	122	48	116	45	104	40
645	Beaver Gray-VY DK	140	55	133	52	120	47
646	Beaver Gray-DK	176	69	168	66	151	59
647	Beaver Gray-MD	74	29	70	27	63	24
648	Beaver Gray-LT	200	78	191	75	171	67
676	Old Gold-LT	67	26	64	25	57	22
680	Old Gold-DK	9	3	9	3	8	3
729	Old Gold-MD	69	27	65	25	59	23
738	Tan-VY LT	259	101	247	97	222	87
739	Tan-UL VY LT	121	47	115	45	104	40
754	Peach-LT	107	42	102	40	92	36
758	Terra Cotta-VY LT	189	74	180	70	162	63
762	Pearl Gray-VY LT	982	386	936	368	842	331
775	Baby Blue-VY LT	764	300	727	286	655	257
778	Antique Mauve-VY LT	204	80	194	76	175	68
782	Topaz-DK	58	22	55	21	50	19
793	Cornflower Blue-MD	156	61	148	58	133	52

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794	Cornflower Blue-LT	188	74	179	70	161	63
798	Delft Blue-DK	53	20	50	19	45	17
799	Delft Blue-MD	143	56	137	53	123	48
800	Delft Blue-Pale	239	94	227	89	205	80
809	Delft Blue	176	69	167	65	150	59
813	Blue-LT	259	101	246	96	222	87
822	Beige Gray-LT	58	22	55	21	50	19
826	Blue-MD	215	84	205	80	184	72
827	Blue-VY LT	60	23	57	22	52	20
841	Beige Brown-LT	196	77	187	73	168	66
842	Beige Brown-VY LT	48	18	45	17	41	16
926	Gray Green-MD	284	111	271	106	243	95
927	Gray Green-LT	235	92	224	88	201	79
928	Gray Green-VY LT	27	10	26	10	23	9
930	Antique Blue-DK	92	36	88	34	79	31
931	Antique Blue-MD	603	237	574	225	517	203
932	Antique Blue-LT	290	114	276	108	248	97
943	Bright Green-MD	195	76	186	73	167	65
945	Tawny	314	123	299	117	269	105
948	Peach-VY LT	99	38	94	37	85	33
950	Desert Sand-LT	311	122	296	116	266	104
963	Dusty Rose-UL VY LT	251	98	239	94	215	84
966	Baby Green-MD	106	41	101	39	91	35
977	Golden Brown-LT	156	61	148	58	133	52
991	Aquamarine-DK	131	51	125	49	112	44
992	Aquamarine-MD	185	72	176	69	158	62
3024	Brown Gray-VY LT	190	74	181	71	163	64
3032	Mocha Brown-MD	139	54	132	51	119	46
3033	Mocha Brown-VY LT	31	12	29	11	26	10
3041	Antique Violet-MD	34	13	32	12	29	11
3042	Antique Violet-LT	145	57	138	54	124	48
3052	Green Gray-MD	115	45	110	43	99	38
3064	Desert Sand	84	33	80	31	72	28
3072	Beaver Gray-VY LT	128	50	122	48	110	43
3325	Baby Blue-LT	523	205	498	196	448	176
3364	Pine Green	51	20	49	19	44	17
3689	Mauve-LT	180	70	171	67	154	60
3727	Antique Mauve-LT	170	66	162	63	146	57
3733	Dusty Rose	58	22	55	21	50	19
3743	Antique Violet-VY LT	274	107	260	102	234	92
3747	Blue Violet-VY LT	543	213	517	203	465	183
3750	Antique Blue-VY DK	342	134	326	128	293	115
3752	Antique Blue-VY LT	353	138	336	132	303	119
3753	Antique Blue-UL VY LT	640	251	609	239	548	215
3755	Baby Blue	242	95	231	90	208	81
3756	Baby Blue-UL VY LT	1181	464	1125	442	1012	398
3760	Wedgewood-MD	261	102	248	97	223	87
3765	Peacock Blue-VY DK	381	150	363	142	327	128
3766	Peacock Blue-LT	48	18	46	18	41	16
3768	Gray Green-DK	340	133	324	127	292	114
3774	Desert Sand-VY LT	626	246	596	234	536	211
3778	Terra Cotta-LT	111	43	106	41	95	37
3782	Mocha Brown-LT	63	24	60	23	54	21
3787	Brown Gray-DK	67	26	63	24	57	22
3807	Cornflower Blue	73	28	69	27	62	24
3808	Turquoise-UL VY DK	194	76	185	72	166	65
3809	Turquoise-VY DK	410	161	391	153	352	138
3810	Turquoise-DK	224	88	214	84	192	75
3812	Sea Green-VY DK	333	131	317	124	285	112

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3815	Celadon Green-DK	24	9	23	9	21	8
3816	Celadon Green-MD	110	43	105	41	95	37
3820	Straw-DK	32	12	30	11	27	10
3825	Pumpkin-Pale	49	19	46	18	42	16
3827	Golden Brown-Pale	77	30	74	29	66	25
3828	Hazelnut Brown	38	14	36	14	32	12
3829	Old Gold-VY DK	51	20	48	18	43	16
3836	Grape-LT	80	31	76	29	68	26
3841	Baby Blue-Pale	368	144	351	138	315	124
3842	Wedgewood-DK	366	144	349	137	314	123
3847	Teal Green-DK	610	240	581	228	523	205
3848	Teal Green-MD	543	213	517	203	466	183
3850	Bright Green-DK	70	27	66	25	60	23
3852	Straw-VY DK	56	22	53	20	48	18
3856	Mahogany-UL VY LT	105	41	100	39	90	35
3859	Rosewood-LT	155	61	148	58	133	52
3861	Cocoa-LT	311	122	296	116	266	104
3862	Mocha Beige-DK	27	10	25	9	23	9
3863	Mocha Beige-MD	96	37	92	36	83	32
3864	Mocha Beige-LT	237	93	226	88	203	79
3866	Mocha Brown-UL VY LT	1139	448	1085	427	977	384

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
210	Lavender-MD	92	36	77	30	38	15
224	Shell Pink-VY LT	155	59	129	50	65	25
225	Shell Pink-UL VY LT	355	139	296	116	148	58
311	Navy Blue-MD	185	72	155	60	77	30
317	Pewter Gray	243	95	203	80	101	40
318	Steel Gray-LT	607	238	506	198	253	99
334	Baby Blue-MD	119	45	99	38	50	19
341	Blue Violet-LT	508	200	423	167	212	83
367	Pistachio Green-DK	45	16	38	14	19	7
370	Mustard-MD	74	29	62	24	31	12
371	Mustard	88	34	74	29	37	14
402	Mahogany-VY LT	146	56	122	47	61	23
407	Desert Sand-DK	148	58	123	48	62	24
413	Pewter Gray-DK	52	20	44	17	22	8
414	Steel Gray-DK	630	247	525	206	263	103
415	Pearl Gray	542	212	452	177	226	89
420	Hazelnut Brown-DK	148	58	123	48	62	24
435	Brown-VY LT	92	36	77	30	38	15
436	Tan	306	119	255	99	128	50
437	Tan-LT	270	106	225	89	113	44
451	Shell Gray-DK	311	122	260	102	130	51
452	Shell Gray-MD	220	86	183	72	92	36
453	Shell Gray-LT	297	115	248	96	124	48
472	Avocado Green-UL LT	58	22	48	18	24	9
501	Blue Green-DK	31	11	26	9	13	5
502	Blue Green	241	94	201	78	101	39
503	Blue Green-MD	270	106	225	89	113	44
517	Wedgewood-DK	187	72	156	60	78	30
518	Wedgewood-LT	446	175	372	146	186	73
519	Sky Blue	97	38	81	32	41	16
522	Fern Green	77	29	65	24	32	12
562	Jade-MD	59	22	50	18	25	9

564	Jade-VY LT	40	14	33	12	17	6
597	Turquoise	94	36	78	30	39	15
610	Drab Brown-DK	131	50	110	42	55	21
611	Drab Brown	88	34	74	29	37	14
613	Drab Brown-VY LT	47	18	39	15	20	8
640	Beige Gray-VY DK	187	72	156	60	78	30
645	Beaver Gray-VY DK	216	85	180	71	90	35
646	Beaver Gray-DK	272	106	227	89	113	44
647	Beaver Gray-MD	113	43	95	36	47	18
648	Beaver Gray-LT	308	121	257	101	128	50
676	Old Gold-LT	103	40	86	33	43	17
680	Old Gold-DK	14	5	12	5	6	2
729	Old Gold-MD	106	41	89	35	44	17
738	Tan-VY LT	400	157	333	131	167	65
739	Tan-UL VY LT	187	72	156	60	78	30
754	Peach-LT	166	65	138	54	69	27
758	Terra Cotta-VY LT	292	113	243	95	122	47
762	Pearl Gray-VY LT	1516	596	1263	497	632	248
775	Baby Blue-VY LT	1179	463	983	386	491	193
778	Antique Mauve-VY LT	315	122	263	102	131	51
782	Topaz-DK	90	34	75	29	38	14
793	Cornflower Blue-MD	239	94	200	78	100	39
794	Cornflower Blue-LT	290	113	242	95	121	47
798	Delft Blue-DK	81	31	68	26	34	13
799	Delft Blue-MD	221	86	185	72	92	36
800	Delft Blue-Pale	369	144	308	120	154	60
809	Delft Blue	270	106	225	89	113	44
813	Blue-LT	400	157	333	131	167	65
822	Beige Gray-LT	90	34	75	29	38	14
826	Blue-MD	331	130	276	108	138	54
827	Blue-VY LT	94	36	78	30	39	15
841	Beige Brown-LT	302	119	252	99	126	50
842	Beige Brown-VY LT	74	29	62	24	31	12
926	Gray Green-MD	437	171	365	143	182	71
927	Gray Green-LT	362	142	302	119	151	59
928	Gray Green-VY LT	41	16	35	14	17	7
930	Antique Blue-DK	142	56	119	47	59	23
931	Antique Blue-MD	931	365	776	305	388	152
932	Antique Blue-LT	446	175	372	146	186	73
943	Bright Green-MD	301	117	251	98	125	49
945	Tawny	484	189	404	158	202	79
948	Peach-VY LT	153	59	128	50	64	25
950	Desert Sand-LT	479	187	399	156	200	78
963	Dusty Rose-UL VY LT	387	151	323	126	161	63
966	Baby Green-MD	164	63	137	53	68	26
977	Golden Brown-LT	239	94	200	78	100	39
991	Aquamarine-DK	202	79	168	66	84	33
992	Aquamarine-MD	284	112	237	93	119	47
3024	Brown Gray-VY LT	293	115	245	96	122	48
3032	Mocha Brown-MD	214	83	179	69	89	35
3033	Mocha Brown-VY LT	47	18	39	15	20	8
3041	Antique Violet-MD	52	20	44	17	22	8
3042	Antique Violet-LT	223	86	186	72	93	36
3052	Green Gray-MD	178	68	149	57	74	29
3064	Desert Sand	130	50	108	42	54	21
3072	Beaver Gray-VY LT	198	77	165	65	83	32
3325	Baby Blue-LT	806	317	672	264	336	132
3364	Pine Green	79	31	66	26	33	13
3689	Mauve-LT	277	108	231	90	116	45

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3727	Antique Mauve-LT	263	103	219	86	110	43
3733	Dusty Rose	90	34	75	29	38	14
3743	Antique Violet-VY LT	421	166	351	138	176	69
3747	Blue Violet-VY LT	837	329	698	275	349	137
3750	Antique Blue-VY DK	527	207	440	173	220	86
3752	Antique Blue-VY LT	545	214	455	179	227	89
3753	Antique Blue-UL VY LT	986	387	822	323	411	161
3755	Baby Blue	374	146	312	122	156	61
3756	Baby Blue-UL VY LT	1822	716	1518	597	759	299
3760	Wedgewood-MD	401	157	335	131	167	65
3765	Peacock Blue-VY DK	589	230	491	192	245	96
3766	Peacock Blue-LT	74	29	62	24	31	12
3768	Gray Green-DK	526	205	438	171	219	86
3774	Desert Sand-VY LT	965	380	804	317	402	158
3778	Terra Cotta-LT	171	67	143	56	71	28
3782	Mocha Brown-LT	97	38	81	32	41	16
3787	Brown Gray-DK	103	40	86	33	43	17
3807	Cornflower Blue	112	43	93	36	47	18
3808	Turquoise-UL VY DK	299	117	249	98	125	49
3809	Turquoise-VY DK	634	248	528	207	264	104
3810	Turquoise-DK	346	135	288	113	144	56
3812	Sea Green-VY DK	513	202	428	168	214	84
3815	Celadon Green-DK	38	14	32	12	16	6
3816	Celadon Green-MD	171	67	143	56	71	28
3820	Straw-DK	49	18	41	15	20	8
3825	Pumpkin-Pale	76	29	63	24	32	12
3827	Golden Brown-Pale	119	45	99	38	50	19
3828	Hazelnut Brown	58	22	48	18	24	9
3829	Old Gold-VY DK	77	29	65	24	32	12
3836	Grape-LT	122	47	102	39	51	20
3841	Baby Blue-Pale	567	223	473	186	236	93
3842	Wedgewood-DK	565	221	471	185	236	92
3847	Teal Green-DK	941	369	785	308	392	154
3848	Teal Green-MD	839	329	699	275	350	137
3850	Bright Green-DK	108	41	90	35	45	17
3852	Straw-VY DK	86	32	72	27	36	14
3856	Mahogany-UL VY LT	162	63	135	53	68	26
3859	Rosewood-LT	239	94	200	78	100	39
3861	Cocoa-LT	479	187	399	156	200	78
3862	Mocha Beige-DK	41	16	35	14	17	7
3863	Mocha Beige-MD	149	58	125	48	62	24
3864	Mocha Beige-LT	365	142	305	119	152	59
3866	Mocha Brown-UL VY LT	1759	691	1466	576	733	288

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
210	Lavender-MD	37	14	35	14	34	13
224	Shell Pink-VY LT	62	24	60	23	57	22
225	Shell Pink-UL VY LT	142	55	136	53	131	51
311	Navy Blue-MD	74	29	71	28	69	27
317	Pewter Gray	97	38	93	37	90	35
318	Steel Gray-LT	243	95	233	91	225	88
334	Baby Blue-MD	48	18	46	17	44	17
341	Blue Violet-LT	203	80	195	77	188	74
367	Pistachio Green-DK	18	6	17	6	17	6
370	Mustard-MD	30	12	28	11	27	11

371	Mustard	35	14	34	13	33	13
402	Mahogany-VY LT	58	22	56	21	54	21
407	Desert Sand-DK	59	23	57	22	55	21
413	Pewter Gray-DK	21	8	20	8	19	7
414	Steel Gray-DK	252	99	242	95	233	91
415	Pearl Gray	217	85	208	82	201	79
420	Hazelnut Brown-DK	59	23	57	22	55	21
435	Brown-VY LT	37	14	35	14	34	13
436	Tan	122	48	118	46	113	44
437	Tan-LT	108	42	104	41	100	39
451	Shell Gray-DK	125	49	120	47	115	45
452	Shell Gray-MD	88	35	84	33	81	32
453	Shell Gray-LT	119	46	114	44	110	43
472	Avocado Green-UL LT	23	9	22	8	21	8
501	Blue Green-DK	12	4	12	4	11	4
502	Blue Green	96	37	93	36	89	35
503	Blue Green-MD	108	42	104	41	100	39
517	Wedgewood-DK	75	29	72	28	69	27
518	Wedgewood-LT	179	70	172	67	165	65
519	Sky Blue	39	15	37	15	36	14
522	Fern Green	31	12	30	11	29	11
562	Jade-MD	24	9	23	8	22	8
564	Jade-VY LT	16	6	15	6	15	5
597	Turquoise	37	14	36	14	35	13
610	Drab Brown-DK	53	20	51	19	49	19
611	Drab Brown	35	14	34	13	33	13
613	Drab Brown-VY LT	19	7	18	7	17	7
640	Beige Gray-VY DK	75	29	72	28	69	27
645	Beaver Gray-VY DK	86	34	83	33	80	31
646	Beaver Gray-DK	109	42	105	41	101	39
647	Beaver Gray-MD	45	17	44	17	42	16
648	Beaver Gray-LT	123	48	118	46	114	45
676	Old Gold-LT	41	16	39	15	38	15
680	Old Gold-DK	6	2	6	2	5	2
729	Old Gold-MD	42	17	41	16	39	15
738	Tan-VY LT	160	63	154	60	148	58
739	Tan-UL VY LT	75	29	72	28	69	27
754	Peach-LT	66	26	64	25	61	24
758	Terra Cotta-VY LT	117	45	112	44	108	42
762	Pearl Gray-VY LT	606	238	583	229	561	221
775	Baby Blue-VY LT	472	185	453	178	437	171
778	Antique Mauve-VY LT	126	49	121	47	117	45
782	Topaz-DK	36	14	35	13	33	13
793	Cornflower Blue-MD	96	37	92	36	89	35
794	Cornflower Blue-LT	116	45	111	44	107	42
798	Delft Blue-DK	32	12	31	12	30	11
799	Delft Blue-MD	89	35	85	33	82	32
800	Delft Blue-Pale	148	58	142	55	137	53
809	Delft Blue	108	42	104	41	100	39
813	Blue-LT	160	63	154	60	148	58
822	Beige Gray-LT	36	14	35	13	33	13
826	Blue-MD	132	52	127	50	123	48
827	Blue-VY LT	37	14	36	14	35	13
841	Beige Brown-LT	121	48	116	46	112	44
842	Beige Brown-VY LT	30	12	28	11	27	11
926	Gray Green-MD	175	68	168	66	162	63
927	Gray Green-LT	145	57	139	55	134	53
928	Gray Green-VY LT	17	6	16	6	15	6
930	Antique Blue-DK	57	22	55	21	53	21

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931	Antique Blue-MD	372	146	358	141	345	135
932	Antique Blue-LT	179	70	172	67	165	65
943	Bright Green-MD	120	47	116	45	111	43
945	Tawny	194	76	186	73	179	70
948	Peach-VY LT	61	24	59	23	57	22
950	Desert Sand-LT	192	75	184	72	177	69
963	Dusty Rose-UL VY LT	155	60	149	58	143	56
966	Baby Green-MD	66	25	63	24	61	23
977	Golden Brown-LT	96	37	92	36	89	35
991	Aquamarine-DK	81	32	78	30	75	29
992	Aquamarine-MD	114	45	109	43	105	41
3024	Brown Gray-VY LT	117	46	113	44	109	43
3032	Mocha Brown-MD	86	33	82	32	79	31
3033	Mocha Brown-VY LT	19	7	18	7	17	7
3041	Antique Violet-MD	21	8	20	8	19	7
3042	Antique Violet-LT	89	35	86	33	83	32
3052	Green Gray-MD	71	27	69	26	66	25
3064	Desert Sand	52	20	50	19	48	19
3072	Beaver Gray-VY LT	79	31	76	30	73	29
3325	Baby Blue-LT	323	127	310	122	299	117
3364	Pine Green	32	12	30	12	29	11
3689	Mauve-LT	111	43	107	42	103	40
3727	Antique Mauve-LT	105	41	101	39	97	38
3733	Dusty Rose	36	14	35	13	33	13
3743	Antique Violet-VY LT	168	66	162	64	156	61
3747	Blue Violet-VY LT	335	132	322	127	310	122
3750	Antique Blue-VY DK	211	83	203	80	195	77
3752	Antique Blue-VY LT	218	86	210	82	202	79
3753	Antique Blue-UL VY LT	395	155	379	149	365	143
3755	Baby Blue	150	58	144	56	139	54
3756	Baby Blue-UL VY LT	729	287	701	276	675	265
3760	Wedgewood-MD	161	63	154	60	149	58
3765	Peacock Blue-VY DK	235	92	226	89	218	85
3766	Peacock Blue-LT	30	12	28	11	27	11
3768	Gray Green-DK	210	82	202	79	195	76
3774	Desert Sand-VY LT	386	152	371	146	357	141
3778	Terra Cotta-LT	68	27	66	26	63	25
3782	Mocha Brown-LT	39	15	37	15	36	14
3787	Brown Gray-DK	41	16	39	15	38	15
3807	Cornflower Blue	45	17	43	17	41	16
3808	Turquoise-UL VY DK	120	47	115	45	111	43
3809	Turquoise-VY DK	253	99	244	96	235	92
3810	Turquoise-DK	138	54	133	52	128	50
3812	Sea Green-VY DK	205	81	197	78	190	75
3815	Celadon Green-DK	15	6	15	6	14	5
3816	Celadon Green-MD	68	27	66	26	63	25
3820	Straw-DK	19	7	19	7	18	7
3825	Pumpkin-Pale	30	12	29	11	28	11
3827	Golden Brown-Pale	48	18	46	17	44	17
3828	Hazelnut Brown	23	9	22	8	21	8
3829	Old Gold-VY DK	31	12	30	11	29	11
3836	Grape-LT	49	19	47	18	45	17
3841	Baby Blue-Pale	227	89	218	86	210	83
3842	Wedgewood-DK	226	89	217	85	209	82
3847	Teal Green-DK	377	148	362	142	349	137
3848	Teal Green-MD	336	132	323	127	311	122
3850	Bright Green-DK	43	17	42	16	40	15
3852	Straw-VY DK	35	13	33	12	32	12
3856	Mahogany-UL VY LT	65	25	62	24	60	23

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3859	Rosewood-LT	96	37	92	36	89	35
3861	Cocoa-LT	192	75	184	72	177	69
3862	Mocha Beige-DK	17	6	16	6	15	6
3863	Mocha Beige-MD	60	23	57	22	55	21
3864	Mocha Beige-LT	146	57	141	55	135	53
3866	Mocha Brown-UL VY LT	703	276	676	266	651	256

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
210	Lavender-MD	33	13	31	12	29	11
224	Shell Pink-VY LT	55	21	52	20	48	19
225	Shell Pink-UL VY LT	127	50	118	46	111	43
311	Navy Blue-MD	66	26	62	24	58	23
317	Pewter Gray	87	34	81	32	76	30
318	Steel Gray-LT	217	85	202	79	190	74
334	Baby Blue-MD	42	16	40	15	37	14
341	Blue Violet-LT	181	71	169	67	159	62
367	Pistachio Green-DK	16	6	15	5	14	5
370	Mustard-MD	26	10	25	10	23	9
371	Mustard	32	12	29	11	28	11
402	Mahogany-VY LT	52	20	49	19	46	17
407	Desert Sand-DK	53	21	49	19	46	18
413	Pewter Gray-DK	19	7	17	7	16	6
414	Steel Gray-DK	225	88	210	82	197	77
415	Pearl Gray	194	76	181	71	169	66
420	Hazelnut Brown-DK	53	21	49	19	46	18
435	Brown-VY LT	33	13	31	12	29	11
436	Tan	109	42	102	40	96	37
437	Tan-LT	96	38	90	35	84	33
451	Shell Gray-DK	111	44	104	41	97	38
452	Shell Gray-MD	78	31	73	29	69	27
453	Shell Gray-LT	106	41	99	38	93	36
472	Avocado Green-UL LT	21	8	19	7	18	7
501	Blue Green-DK	11	4	10	4	10	3
502	Blue Green	86	33	80	31	75	29
503	Blue Green-MD	96	38	90	35	84	33
517	Wedgewood-DK	67	26	62	24	59	23
518	Wedgewood-LT	159	62	149	58	140	55
519	Sky Blue	35	14	32	13	30	12
522	Fern Green	28	10	26	10	24	9
562	Jade-MD	21	8	20	7	19	7
564	Jade-VY LT	14	5	13	5	12	5
597	Turquoise	33	13	31	12	29	11
610	Drab Brown-DK	47	18	44	17	41	16
611	Drab Brown	32	12	29	11	28	11
613	Drab Brown-VY LT	17	6	16	6	15	6
640	Beige Gray-VY DK	67	26	62	24	59	23
645	Beaver Gray-VY DK	77	30	72	28	68	26
646	Beaver Gray-DK	97	38	91	35	85	33
647	Beaver Gray-MD	41	15	38	14	35	14
648	Beaver Gray-LT	110	43	103	40	96	38
676	Old Gold-LT	37	14	34	13	32	12
680	Old Gold-DK	5	2	5	2	5	2
729	Old Gold-MD	38	15	35	14	33	13
738	Tan-VY LT	143	56	133	52	125	49
739	Tan-UL VY LT	67	26	62	24	59	23

754	Peach-LT	59	23	55	22	52	20
758	Terra Cotta-VY LT	104	41	97	38	91	35
762	Pearl Gray-VY LT	541	213	505	199	474	186
775	Baby Blue-VY LT	421	165	393	154	368	145
778	Antique Mauve-VY LT	113	44	105	41	98	38
782	Topaz-DK	32	12	30	11	28	11
793	Cornflower Blue-MD	86	33	80	31	75	29
794	Cornflower Blue-LT	104	41	97	38	91	35
798	Delft Blue-DK	29	11	27	10	25	10
799	Delft Blue-MD	79	31	74	29	69	27
800	Delft Blue-Pale	132	51	123	48	115	45
809	Delft Blue	96	38	90	35	84	33
813	Blue-LT	143	56	133	52	125	49
822	Beige Gray-LT	32	12	30	11	28	11
826	Blue-MD	118	46	110	43	104	41
827	Blue-VY LT	33	13	31	12	29	11
841	Beige Brown-LT	108	42	101	40	95	37
842	Beige Brown-VY LT	26	10	25	10	23	9
926	Gray Green-MD	156	61	146	57	137	53
927	Gray Green-LT	129	51	121	47	113	44
928	Gray Green-VY LT	15	6	14	5	13	5
930	Antique Blue-DK	51	20	47	19	44	17
931	Antique Blue-MD	332	131	310	122	291	114
932	Antique Blue-LT	159	62	149	58	140	55
943	Bright Green-MD	107	42	100	39	94	37
945	Tawny	173	68	161	63	151	59
948	Peach-VY LT	55	21	51	20	48	19
950	Desert Sand-LT	171	67	160	62	150	59
963	Dusty Rose-UL VY LT	138	54	129	50	121	47
966	Baby Green-MD	59	23	55	21	51	20
977	Golden Brown-LT	86	33	80	31	75	29
991	Aquamarine-DK	72	28	67	26	63	25
992	Aquamarine-MD	102	40	95	37	89	35
3024	Brown Gray-VY LT	105	41	98	38	92	36
3032	Mocha Brown-MD	77	30	71	28	67	26
3033	Mocha Brown-VY LT	17	6	16	6	15	6
3041	Antique Violet-MD	19	7	17	7	16	6
3042	Antique Violet-LT	80	31	74	29	70	27
3052	Green Gray-MD	64	24	59	23	56	21
3064	Desert Sand	46	18	43	17	41	16
3072	Beaver Gray-VY LT	71	28	66	26	62	24
3325	Baby Blue-LT	288	113	269	106	252	99
3364	Pine Green	28	11	26	10	25	10
3689	Mauve-LT	99	39	92	36	87	34
3727	Antique Mauve-LT	94	37	88	34	82	32
3733	Dusty Rose	32	12	30	11	28	11
3743	Antique Violet-VY LT	150	59	140	55	132	52
3747	Blue Violet-VY LT	299	118	279	110	262	103
3750	Antique Blue-VY DK	188	74	176	69	165	65
3752	Antique Blue-VY LT	195	77	182	71	170	67
3753	Antique Blue-UL VY LT	352	138	329	129	308	121
3755	Baby Blue	134	52	125	49	117	46
3756	Baby Blue-UL VY LT	651	256	607	239	569	224
3760	Wedgewood-MD	143	56	134	52	125	49
3765	Peacock Blue-VY DK	210	82	196	77	184	72
3766	Peacock Blue-LT	26	10	25	10	23	9
3768	Gray Green-DK	188	73	175	68	164	64
3774	Desert Sand-VY LT	345	136	322	127	302	119
3778	Terra Cotta-LT	61	24	57	22	53	21

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3782	Mocha Brown-LT	35	14	32	13	30	12
3787	Brown Gray-DK	37	14	34	13	32	12
3807	Cornflower Blue	40	15	37	14	35	14
3808	Turquoise-UL VY DK	107	42	100	39	93	37
3809	Turquoise-VY DK	226	89	211	83	198	78
3810	Turquoise-DK	123	48	115	45	108	42
3812	Sea Green-VY DK	183	72	171	67	160	63
3815	Celadon Green-DK	14	5	13	5	12	5
3816	Celadon Green-MD	61	24	57	22	53	21
3820	Straw-DK	17	6	16	6	15	6
3825	Pumpkin-Pale	27	10	25	10	24	9
3827	Golden Brown-Pale	42	16	40	15	37	14
3828	Hazelnut Brown	21	8	19	7	18	7
3829	Old Gold-VY DK	28	10	26	10	24	9
3836	Grape-LT	44	17	41	16	38	15
3841	Baby Blue-Pale	203	80	189	74	177	70
3842	Wedgewood-DK	202	79	188	74	177	69
3847	Teal Green-DK	336	132	314	123	294	115
3848	Teal Green-MD	300	118	280	110	262	103
3850	Bright Green-DK	39	15	36	14	34	13
3852	Straw-VY DK	31	12	29	11	27	10
3856	Mahogany-UL VY LT	58	23	54	21	51	20
3859	Rosewood-LT	86	33	80	31	75	29
3861	Cocoa-LT	171	67	160	62	150	59
3862	Mocha Beige-DK	15	6	14	5	13	5
3863	Mocha Beige-MD	53	21	50	19	47	18
3864	Mocha Beige-LT	131	51	122	47	114	44
3866	Mocha Brown-UL VY LT	628	247	586	230	550	216

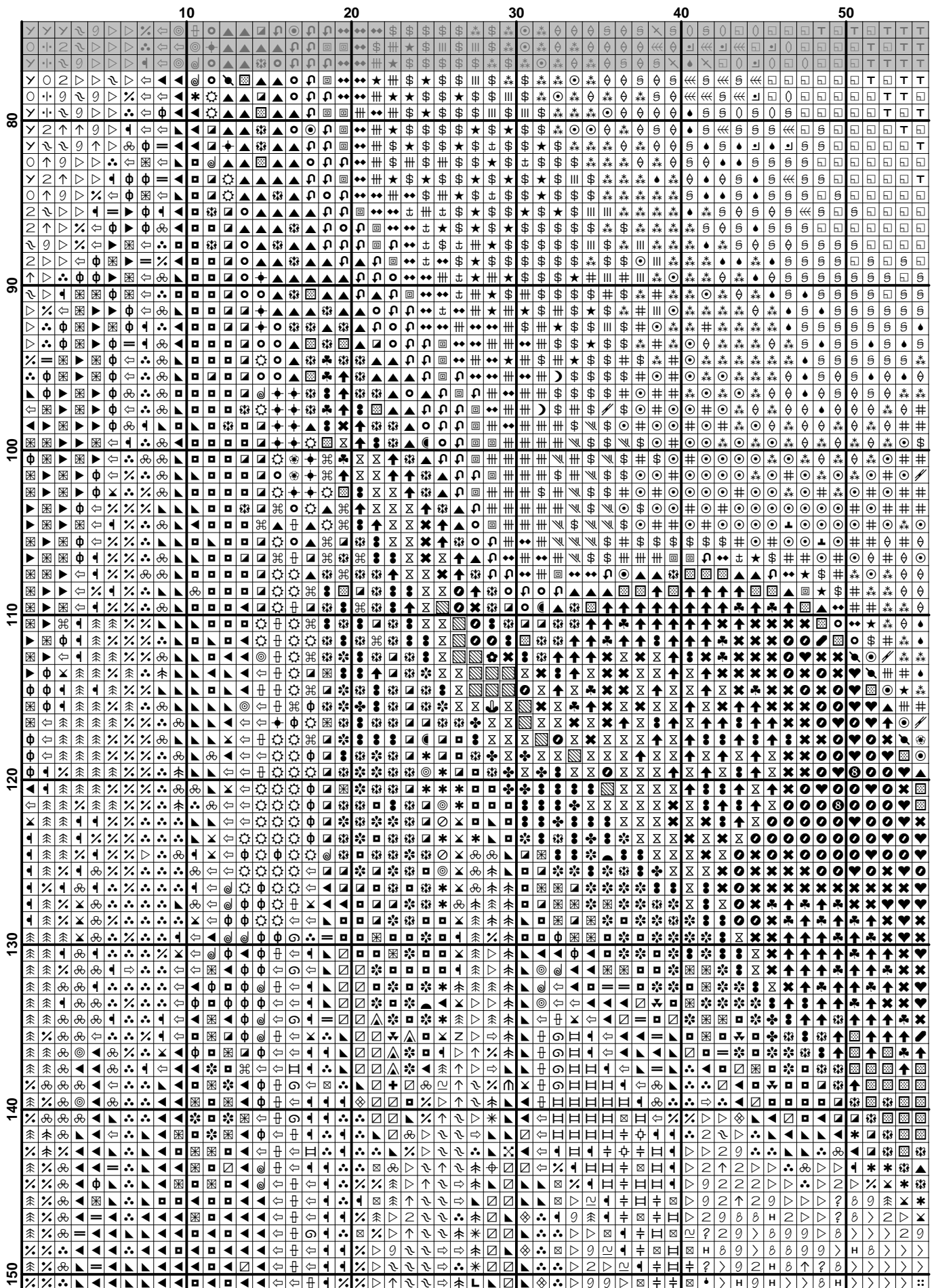
[illegible]

	60	70	80	90	100
10	?	?	?	?	?
20	?	?	?	?	?
30	?	?	?	?	?
40	?	?	?	?	?
50	?	?	?	?	?
60	?	?	?	?	?
70	?	?	?	?	?

(9)

(9) (10)

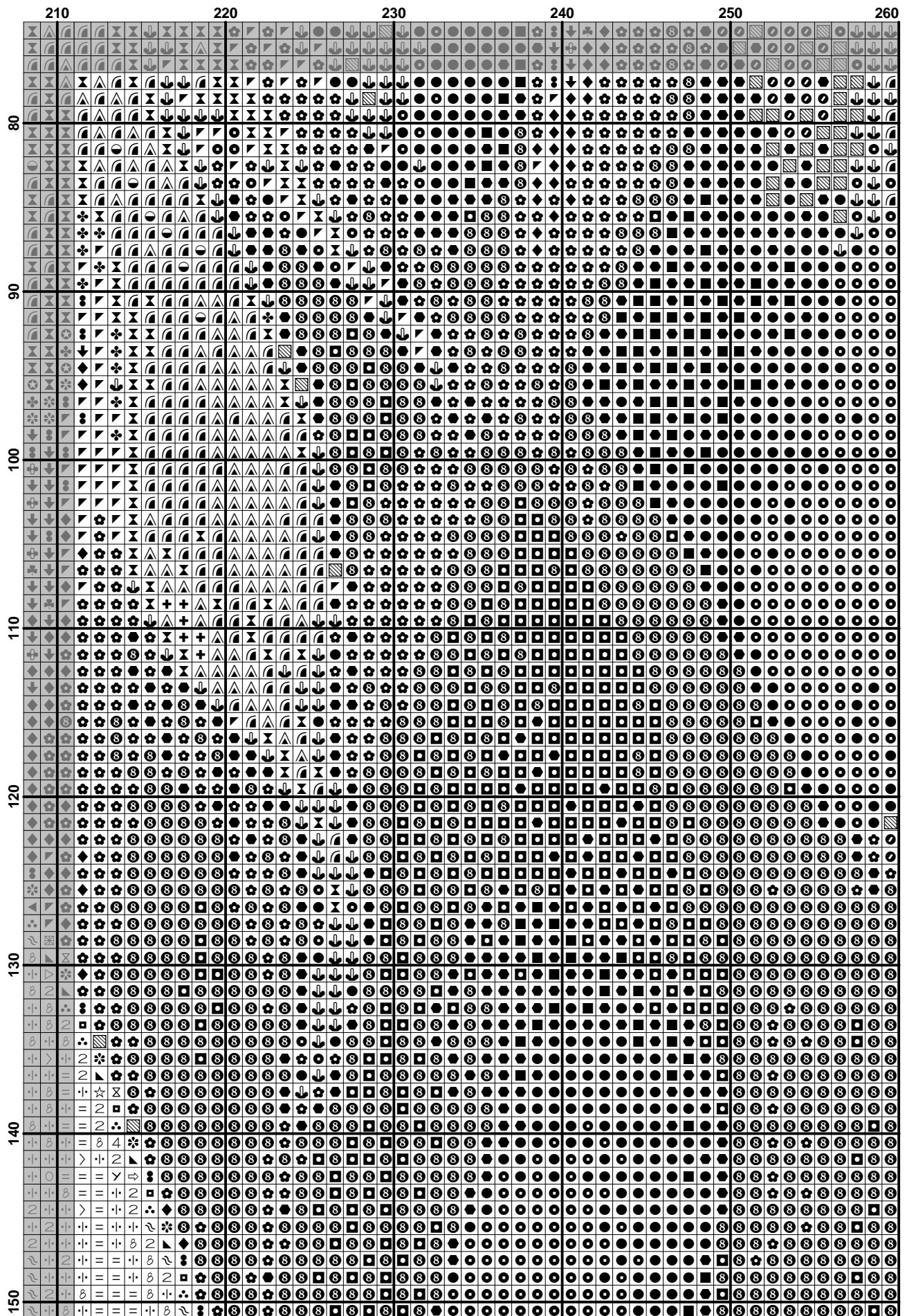
(10)



$$(12) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (13)$$

$$(13) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

	160	170	180	190	200	210
80	→	→	→	→	→	→
81	→	→	→	→	→	→
82	→	→	→	→	→	→
83	→	→	→	→	→	→
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100	→	→	→	→	→	→
101	→	→	→	→	→	→
102	→	→	→	→	→	→
103	→	→	→	→	→	→
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105	→	→	→	→	→	→
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129	→	→	→	→	→	→
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144	→	→	→	→	→	→
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147	→	→	→	→	→	→
148	→	→	→	→	→	→
149	→	→	→	→	→	→
150	→	→	→	→	→	→



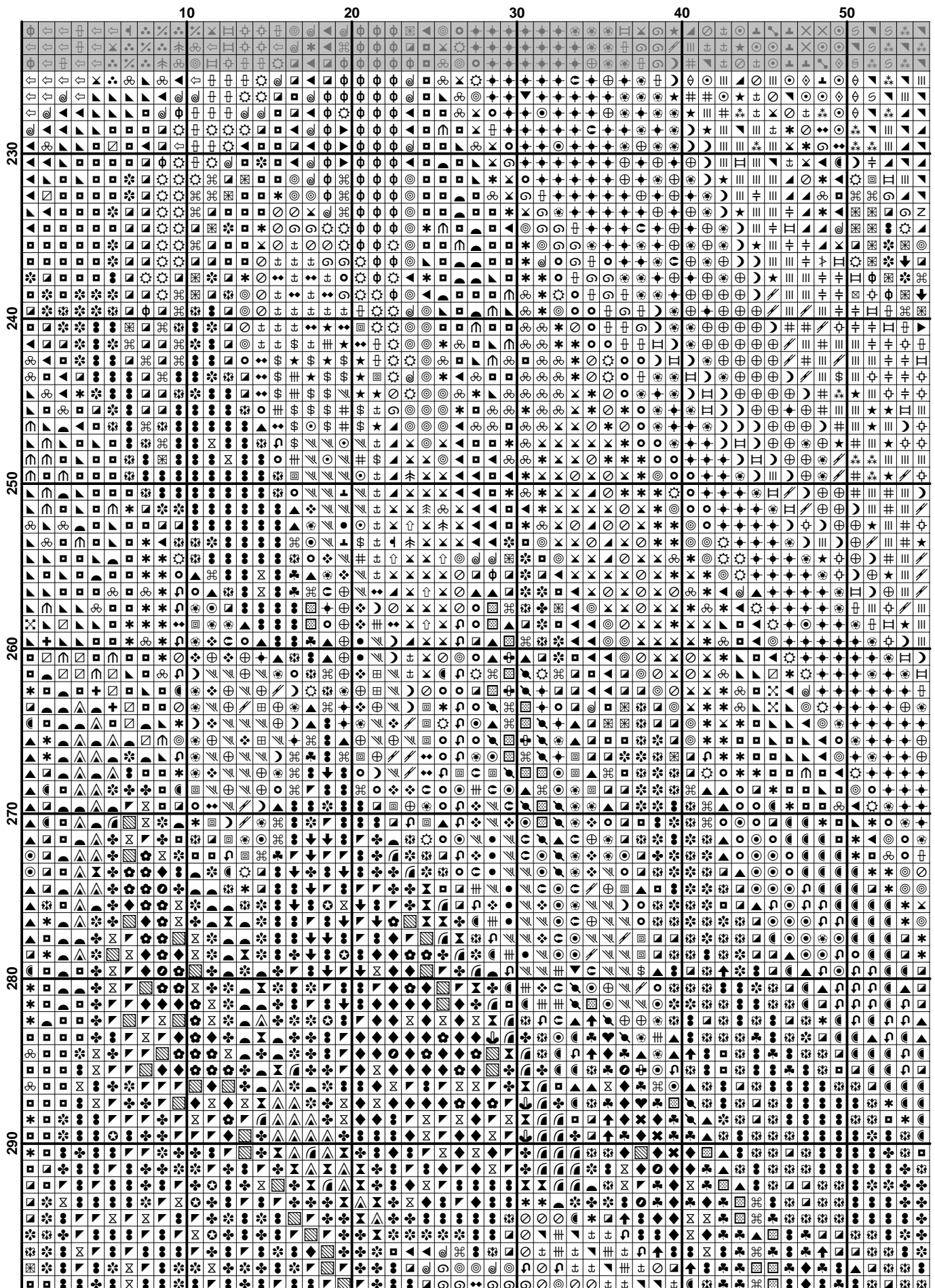
	10	20	30	40	50
150
160
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190
200
210
220

[illegible]

[illegible]

[illegible]

(20)



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

[illegible]

[illegible]

(25)

