

2079 La France Roses



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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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La France Roses

Stitch Count	
Horizontal:	800
Vertical:	193

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:	145	57.05	35	13.66	127	49.92	31	11.95	113	44.375	27	10.625
Including Margins:	161	64	51	20	143	56	47	18	129	51	43	17
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	203	79.87	49	19.12	169	66.55	40	15.93	84	33.27	20	7.96
Including Margins:	219	86	65	26	185	73	56	22	100	40	36	14
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	81	31.94	19	7.64	78	30.71	18	7.35	75	29.58	18	7.08
Including Margins:	97	38	35	14	94	37	34	14	91	36	34	14
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	72	28.52	17	6.83	67	26.62	16	6.37	63	24.95	15	5.97
Including Margins:	88	35	33	13	83	33	32	13	79	31	31	12

Solid Color Stitches. Use two strands of the specified color for these stitches.

Symbol	DMC	Name
♣	221	Shell Pink-VY DK
♣	304	Christmas Red-MD
▨	315	Antique Mauve-VY DK
⌘	316	Antique Mauve-MD
⊕	320	Pistachio Green-MD
▼	326	Rose-VY DK
⊞	335	Rose
♠	347	Salmon-VY DK
	368	Pistachio Green-LT
✱	413	Pewter Gray-DK
↘	414	Steel Gray-DK
↑	452	Shell Gray-MD
●	500	Blue Green-VY DK
⊕	501	Blue Green-DK
◇	502	Blue Green
∩	503	Blue Green-MD
↘	522	Fern Green
♣	524	Fern Green-VY LT
☾	535	Ash Gray-VY LT
—	564	Jade-VY LT
►	580	Moss Green-DK
√	598	Turquoise-LT
☾	611	Drab Brown
✱	645	Beaver Gray-VY DK
✱	646	Beaver Gray-DK
↘	647	Beaver Gray-MD
m	648	Beaver Gray-LT
✱	701	Christmas Green-LT
☾	738	Tan-VY LT
<	762	Pearl Gray-VY LT
♣	778	Antique Mauve-VY LT
♠	819	Baby Pink-LT
☾	830	Golden Olive-DK
⊞	891	Carnation-DK
✕	892	Carnation-MD
☾	895	Hunter Green-VY DK
◆	902	Garnet-VY DK
⊕	904	Parrot Green-VY DK
►	905	Parrot Green-DK
☾	912	Emerald Green-LT
✓	913	Nile Green-MD
♣	927	Gray Green-LT
⊞	928	Gray Green-VY LT
✕	935	Avocado Green-DK
L	943	Bright Green-MD
9	950	Desert Sand-LT
L	955	Nile Green-LT
☾	956	Geranium
☾	961	Dusty Rose-DK
✕	962	Dusty Rose-MD
□	963	Dusty Rose-UL VY LT
✱	986	Forest Green-VY DK
✱	987	Forest Green-DK

⦿	988	Forest Green-MD
⦿	989	Forest Green
⦿	993	Aquamarine-LT
4	3024	Brown Gray-VY LT
T	3032	Mocha Brown-MD
⦿	3041	Antique Violet-MD
⇒	3072	Beaver Gray-VY LT
?	3326	Rose-LT
☾	3350	Dusty Rose-UL DK
⦿	3364	Pine Green
➔	3685	Mauve-DK
..	3706	Melon-MD
♡	3713	Salmon-VY LT
∪	3716	Dusty Rose-VY LT
+	3721	Shell Pink-DK
⦿	3726	Antique Mauve-DK
⦿	3727	Antique Mauve-LT
⦿	3740	Antique Violet-DK
e	3743	Antique Violet-VY LT
⦿	3753	Antique Blue-UL VY LT
∞	3756	Baby Blue-UL VY LT
☾	3781	Mocha Brown-DK
○	3782	Mocha Brown-LT
↑	3799	Pewter Gray-VY DK
⦿	3801	Christmas Red-LT
▀	3815	Celadon Green-DK
◀	3816	Celadon Green-MD
⦿	3831	Raspberry-DK
⦿	3832	Raspberry-MD
^	3833	Raspberry-LT
⦿	3859	Rosewood-LT
\$	3861	Cocoa-LT
1	3865	Winter White

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
u	1	White 1	3865	Winter White
⦿	223	Shell Pink-LT	3350	Dusty Rose-UL DK
⦿	223	Shell Pink-LT	3687	Mauve
⦿	223	Shell Pink-LT	3861	Cocoa-LT
7	224	Shell Pink-VY LT	842	Beige Brown-VY LT
4	224	Shell Pink-VY LT	3733	Dusty Rose
■	310	Black	500	Blue Green-VY DK
■	310	Black	934	Black Avocado Green
⦿	310	Black	935	Avocado Green-DK
⦿	316	Antique Mauve-MD	452	Shell Gray-MD
⦿	316	Antique Mauve-MD	3726	Antique Mauve-DK
⦿	316	Antique Mauve-MD	3733	Dusty Rose
⦿	316	Antique Mauve-MD	3833	Raspberry-LT
⦿	317	Pewter Gray	3740	Antique Violet-DK
⦿	317	Pewter Gray	3809	Turquoise-VY DK
⦿	318	Steel Gray-LT	415	Pearl Gray
#	318	Steel Gray-LT	927	Gray Green-LT

⌂	320	Pistachio Green-MD	645	Beaver Gray-VY DK
⊕	335	Rose	3687	Mauve
⊕	350	Coral-MD	351	Coral
⊗	355	Terra Cotta-DK	3830	Terra Cotta-MD
//	356	Terra Cotta-MD	3830	Terra Cotta-MD
⌘	369	Pistachio Green-VY LT	524	Fern Green-VY LT
/	369	Pistachio Green-VY LT	648	Beaver Gray-LT
◇	369	Pistachio Green-VY LT	928	Gray Green-VY LT
●	413	Pewter Gray-DK	3802	Antique Mauve-VY DK
⊗	413	Pewter Gray-DK	3816	Celadon Green-MD
●	414	Steel Gray-DK	647	Beaver Gray-MD
●	414	Steel Gray-DK	927	Gray Green-LT
+	415	Pearl Gray	928	Gray Green-VY LT
□	415	Pearl Gray	3024	Brown Gray-VY LT
⊗	415	Pearl Gray	3743	Antique Violet-VY LT
5	415	Pearl Gray	3753	Antique Blue-UL VY LT
⊕	451	Shell Gray-DK	503	Blue Green-MD
::	452	Shell Gray-MD	842	Beige Brown-VY LT
=	452	Shell Gray-MD	927	Gray Green-LT
⊗	500	Blue Green-VY DK	895	Hunter Green-VY DK
□	501	Blue Green-DK	701	Christmas Green-LT
⊗	501	Blue Green-DK	909	Emerald Green-VY DK
⌘	501	Blue Green-DK	3799	Pewter Gray-VY DK
▲	520	Fern Green-DK	535	Ash Gray-VY LT
□	520	Fern Green-DK	3799	Pewter Gray-VY DK
×	522	Fern Green	645	Beaver Gray-VY DK
☆	524	Fern Green-VY LT	613	Drab Brown-VY LT
⌘	524	Fern Green-VY LT	647	Beaver Gray-MD
∇	524	Fern Green-VY LT	927	Gray Green-LT
■	535	Ash Gray-VY LT	987	Forest Green-DK
↓	535	Ash Gray-VY LT	3799	Pewter Gray-VY DK
⊗	598	Turquoise-LT	943	Bright Green-MD
›	611	Drab Brown	3828	Hazelnut Brown
♦	640	Beige Gray-VY DK	3740	Antique Violet-DK
+	645	Beaver Gray-VY DK	926	Gray Green-MD
⌘	645	Beaver Gray-VY DK	3041	Antique Violet-MD
⌘	647	Beaver Gray-MD	927	Gray Green-LT
▷	677	Old Gold-VY LT	739	Tan-UL VY LT
:	745	Yellow-LT Pale	3046	Yellow Beige-MD
↑	745	Yellow-LT Pale	3823	Yellow-UL Pale
◦	747	Sky Blue-VY LT	3756	Baby Blue-UL VY LT
)	747	Sky Blue-VY LT	3761	Sky Blue-LT
(762	Pearl Gray-VY LT	819	Baby Pink-LT
•	762	Pearl Gray-VY LT	963	Dusty Rose-UL VY LT
	762	Pearl Gray-VY LT	3756	Baby Blue-UL VY LT
~	762	Pearl Gray-VY LT	3865	Winter White
3	778	Antique Mauve-VY LT	3024	Brown Gray-VY LT
^	819	Baby Pink-LT	963	Dusty Rose-UL VY LT
«	819	Baby Pink-LT	3865	Winter White
↓	838	Beige Brown-VY DK	3799	Pewter Gray-VY DK
×	838	Beige Brown-VY DK	3802	Antique Mauve-VY DK
●	839	Beige Brown-DK	3799	Pewter Gray-VY DK
✕	891	Carnation-DK	3831	Raspberry-DK
←	909	Emerald Green-VY DK	3799	Pewter Gray-VY DK
∅	912	Emerald Green-LT	987	Forest Green-DK
☉	924	Gray Green--VY DK	3799	Pewter Gray-VY DK
2	927	Gray Green-LT	928	Gray Green-VY LT
≡	927	Gray Green-LT	3849	Teal Green-LT
‡	931	Antique Blue-MD	3849	Teal Green-LT

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●	934	Black Avocado Green	3371	Black Brown
●	934	Black Avocado Green	3799	Pewter Gray-VY DK
±	955	Nile Green-LT	3024	Brown Gray-VY LT
田	956	Geranium	3706	Melon-MD
♥	3021	Brown Gray-VY DK	3371	Black Brown
❖	3041	Antique Violet-MD	3726	Antique Mauve-DK
●	3041	Antique Violet-MD	3740	Antique Violet-DK
Σ	3041	Antique Violet-MD	3861	Cocoa-LT
○	3072	Beaver Gray-VY LT	3713	Salmon-VY LT
⇐	3072	Beaver Gray-VY LT	3743	Antique Violet-VY LT
●	3350	Dusty Rose-UL DK	3685	Mauve-DK
=	3350	Dusty Rose-UL DK	3726	Antique Mauve-DK
▲	3350	Dusty Rose-UL DK	3832	Raspberry-MD
6	3713	Salmon-VY LT	3716	Dusty Rose-VY LT
0	3713	Salmon-VY LT	3743	Antique Violet-VY LT
◀	3726	Antique Mauve-DK	3740	Antique Violet-DK
★	3726	Antique Mauve-DK	3772	Desert Sand-VY DK
z	3726	Antique Mauve-DK	3861	Cocoa-LT
8	3743	Antique Violet-VY LT	3753	Antique Blue-UL VY LT
π	3756	Baby Blue-UL VY LT	3865	Winter White
▲	3801	Christmas Red-LT	3831	Raspberry-DK
✱	3860	Cocoa	3862	Mocha Beige-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	1844	725	1756	691	1580	622
221	Shell Pink-VY DK	59	23	56	22	50	19
223	Shell Pink-LT	279	109	266	104	239	94
224	Shell Pink-VY LT	159	62	152	59	136	53
304	Christmas Red-MD	49	19	46	18	42	16
310	Black	697	274	663	261	597	235
315	Antique Mauve-VY DK	150	59	143	56	129	50
316	Antique Mauve-MD	728	286	693	272	624	245
317	Pewter Gray	45	17	43	16	39	15
318	Steel Gray-LT	66	25	63	24	57	22
320	Pistachio Green-MD	245	96	233	91	210	82
326	Rose-VY DK	226	88	215	84	194	76
335	Rose	262	103	250	98	225	88
347	Salmon-VY DK	67	26	64	25	57	22
350	Coral-MD	7	2	6	2	6	2
351	Coral	7	2	6	2	6	2
355	Terra Cotta-DK	12	4	11	4	10	3
356	Terra Cotta-MD	9	3	8	3	8	3
368	Pistachio Green-LT	116	45	111	43	100	39
369	Pistachio Green-VY LT	139	54	133	52	120	47
413	Pewter Gray-DK	207	81	198	77	178	70
414	Steel Gray-DK	145	57	139	54	125	49
415	Pearl Gray	749	294	713	280	642	252
451	Shell Gray-DK	80	31	76	29	68	26
452	Shell Gray-MD	592	233	564	222	507	199
500	Blue Green-VY DK	681	268	649	255	584	229
501	Blue Green-DK	446	175	425	167	383	150
502	Blue Green	97	38	92	36	83	32
503	Blue Green-MD	221	87	210	82	189	74
520	Fern Green-DK	410	161	390	153	351	138
522	Fern Green	261	102	249	98	224	88
524	Fern Green-VY LT	283	111	269	105	243	95
535	Ash Gray-VY LT	563	221	536	211	482	189
564	Jade-VY LT	219	86	209	82	188	74
580	Moss Green-DK	11	4	10	3	9	3
598	Turquoise-LT	116	45	110	43	99	38
611	Drab Brown	24	9	23	9	21	8
613	Drab Brown-VY LT	32	12	31	12	28	11
640	Beige Gray-VY DK	44	17	42	16	38	14
645	Beaver Gray-VY DK	370	145	352	138	317	124
646	Beaver Gray-DK	127	50	121	47	109	42
647	Beaver Gray-MD	481	189	458	180	412	162
648	Beaver Gray-LT	139	54	132	51	119	46
677	Old Gold-VY LT	5	1	5	1	4	1
701	Christmas Green-LT	118	46	112	44	101	39
738	Tan-VY LT	22	8	21	8	19	7
739	Tan-UL VY LT	5	1	5	1	4	1
745	Yellow-LT Pale	13	5	12	4	11	4
747	Sky Blue-VY LT	261	102	249	98	224	88
762	Pearl Gray-VY LT	2980	1173	2838	1117	2555	1005
778	Antique Mauve-VY LT	530	208	505	198	455	179
819	Baby Pink-LT	680	267	647	254	583	229
830	Golden Olive-DK	19	7	18	7	16	6

838	Beige Brown-VY DK	113	44	108	42	97	38
839	Beige Brown-DK	55	21	53	20	47	18
842	Beige Brown-VY LT	59	23	56	22	50	19
891	Carnation-DK	318	125	303	119	273	107
892	Carnation-MD	99	38	94	37	85	33
895	Hunter Green-VY DK	218	85	208	81	187	73
902	Garnet-VY DK	50	19	47	18	43	16
904	Parrot Green-VY DK	43	16	41	16	37	14
905	Parrot Green-DK	10	3	9	3	8	3
909	Emerald Green-VY DK	201	79	192	75	173	68
912	Emerald Green-LT	176	69	168	66	151	59
913	Nile Green-MD	80	31	76	29	69	27
924	Gray Green--VY DK	48	18	46	18	41	16
926	Gray Green-MD	35	13	34	13	30	11
927	Gray Green-LT	577	227	550	216	495	194
928	Gray Green-VY LT	753	296	717	282	645	253
931	Antique Blue-MD	13	5	13	5	12	4
934	Black Avocado Green	482	189	459	180	413	162
935	Avocado Green-DK	420	165	400	157	360	141
943	Bright Green-MD	86	33	82	32	73	28
950	Desert Sand-LT	23	9	22	8	20	7
955	Nile Green-LT	269	105	256	100	231	90
956	Geranium	100	39	95	37	86	33
961	Dusty Rose-DK	132	51	126	49	113	44
962	Dusty Rose-MD	193	75	184	72	166	65
963	Dusty Rose-UL VY LT	653	257	622	244	560	220
986	Forest Green-VY DK	137	53	130	51	117	46
987	Forest Green-DK	367	144	350	137	315	124
988	Forest Green-MD	23	9	21	8	19	7
989	Forest Green	46	18	44	17	39	15
993	Aquamarine-LT	113	44	107	42	97	38
3021	Brown Gray-VY DK	46	18	44	17	39	15
3024	Brown Gray-VY LT	742	292	706	277	636	250
3032	Mocha Brown-MD	54	21	51	20	46	18
3041	Antique Violet-MD	313	123	298	117	269	105
3046	Yellow Beige-MD	6	2	6	2	5	1
3072	Beaver Gray-VY LT	905	356	862	339	775	305
3326	Rose-LT	256	100	244	96	220	86
3350	Dusty Rose-UL DK	575	226	548	215	493	194
3364	Pine Green	24	9	23	9	21	8
3371	Black Brown	92	36	87	34	79	31
3685	Mauve-DK	286	112	273	107	245	96
3687	Mauve	223	87	212	83	191	75
3706	Melon-MD	70	27	66	25	60	23
3713	Salmon-VY LT	531	209	505	198	455	179
3716	Dusty Rose-VY LT	403	158	384	151	345	135
3721	Shell Pink-DK	78	30	74	29	67	26
3726	Antique Mauve-DK	607	238	579	227	521	205
3727	Antique Mauve-LT	409	161	389	153	350	137
3733	Dusty Rose	225	88	214	84	193	75
3740	Antique Violet-DK	282	111	269	105	242	95
3743	Antique Violet-VY LT	746	293	710	279	639	251
3753	Antique Blue-UL VY LT	693	272	660	259	594	233
3756	Baby Blue-UL VY LT	3169	1247	3018	1188	2716	1069
3761	Sky Blue-LT	63	24	60	23	54	21
3772	Desert Sand-VY DK	20	7	19	7	17	6
3781	Mocha Brown-DK	40	15	38	14	34	13
3782	Mocha Brown-LT	59	23	57	22	51	20
3799	Pewter Gray-VY DK	1215	478	1157	455	1041	409

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3801	Christmas Red-LT	162	63	154	60	139	54
3802	Antique Mauve-VY DK	114	44	109	42	98	38
3809	Turquoise-VY DK	18	7	17	6	16	6
3815	Celadon Green-DK	224	88	213	83	192	75
3816	Celadon Green-MD	181	71	172	67	155	61
3823	Yellow-UL Pale	7	2	7	2	6	2
3828	Hazelnut Brown	6	2	6	2	5	1
3830	Terra Cotta-MD	20	7	19	7	17	6
3831	Raspberry-DK	507	199	483	190	434	170
3832	Raspberry-MD	336	132	320	125	288	113
3833	Raspberry-LT	234	92	223	87	201	79
3849	Teal Green-LT	36	14	35	13	31	12
3859	Rosewood-LT	54	21	51	20	46	18
3860	Cocoa	23	9	22	8	20	7
3861	Cocoa-LT	631	248	601	236	541	212
3862	Mocha Beige-DK	23	9	22	8	20	7
3865	Winter White	6949	2735	6618	2605	5956	2344

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	2844	1120	2370	933	1185	467
221	Shell Pink-VY DK	90	34	75	29	38	14
223	Shell Pink-LT	430	169	359	141	179	71
224	Shell Pink-VY LT	245	95	204	80	102	40
304	Christmas Red-MD	76	29	63	24	32	12
310	Black	1075	423	896	353	448	176
315	Antique Mauve-VY DK	232	90	194	75	97	38
316	Antique Mauve-MD	1123	441	936	368	468	184
317	Pewter Gray	70	27	59	23	29	11
318	Steel Gray-LT	103	40	86	33	43	17
320	Pistachio Green-MD	378	148	315	123	158	62
326	Rose-VY DK	349	137	291	114	146	57
335	Rose	405	158	338	132	169	66
347	Salmon-VY DK	103	40	86	33	43	17
350	Coral-MD	11	4	9	3	5	2
351	Coral	11	4	9	3	5	2
355	Terra Cotta-DK	18	5	15	5	8	2
356	Terra Cotta-MD	14	5	12	5	6	2
368	Pistachio Green-LT	180	70	150	59	75	29
369	Pistachio Green-VY LT	216	85	180	71	90	35
413	Pewter Gray-DK	320	126	267	105	134	53
414	Steel Gray-DK	225	88	188	74	94	37
415	Pearl Gray	1156	454	963	378	482	189
451	Shell Gray-DK	122	47	102	39	51	20
452	Shell Gray-MD	913	358	761	299	380	149
500	Blue Green-VY DK	1051	412	876	344	438	172
501	Blue Green-DK	689	270	575	225	287	113
502	Blue Green	149	58	125	48	62	24
503	Blue Green-MD	340	133	284	111	142	56
520	Fern Green-DK	632	248	527	207	263	104
522	Fern Green	403	158	336	132	168	66
524	Fern Green-VY LT	437	171	365	143	182	71
535	Ash Gray-VY LT	868	340	723	284	362	142
564	Jade-VY LT	338	133	282	111	141	56
580	Moss Green-DK	16	5	14	5	7	2

598	Turquoise-LT	178	68	149	57	74	29
611	Drab Brown	38	14	32	12	16	6
613	Drab Brown-VY LT	50	20	42	17	21	8
640	Beige Gray-VY DK	68	25	57	21	29	11
645	Beaver Gray-VY DK	571	223	476	186	238	93
646	Beaver Gray-DK	196	76	164	63	82	32
647	Beaver Gray-MD	742	292	618	243	309	122
648	Beaver Gray-LT	214	83	179	69	89	35
677	Old Gold-VY LT	7	2	6	2	3	1
701	Christmas Green-LT	182	70	152	59	76	29
738	Tan-VY LT	34	13	29	11	14	5
739	Tan-UL VY LT	7	2	6	2	3	1
745	Yellow-LT Pale	20	7	17	6	8	3
747	Sky Blue-VY LT	403	158	336	132	168	66
762	Pearl Gray-VY LT	4599	1809	3833	1508	1916	754
778	Antique Mauve-VY LT	819	322	683	269	341	134
819	Baby Pink-LT	1049	412	875	344	437	172
830	Golden Olive-DK	29	11	24	9	12	5
838	Beige Brown-VY DK	175	68	146	57	73	29
839	Beige Brown-DK	85	32	71	27	35	14
842	Beige Brown-VY LT	90	34	75	29	38	14
891	Carnation-DK	491	193	410	161	205	80
892	Carnation-MD	153	59	128	50	64	25
895	Hunter Green-VY DK	337	131	281	110	140	55
902	Garnet-VY DK	77	29	65	24	32	12
904	Parrot Green-VY DK	67	25	56	21	28	11
905	Parrot Green-DK	14	5	12	5	6	2
909	Emerald Green-VY DK	311	122	260	102	130	51
912	Emerald Green-LT	272	106	227	89	113	44
913	Nile Green-MD	124	49	104	41	52	20
924	Gray Green--VY DK	74	29	62	24	31	12
926	Gray Green-MD	54	20	45	17	23	8
927	Gray Green-LT	891	349	743	291	371	146
928	Gray Green-VY LT	1161	455	968	380	484	190
931	Antique Blue-MD	22	7	18	6	9	3
934	Black Avocado Green	743	292	620	243	310	122
935	Avocado Green-DK	648	254	540	212	270	106
943	Bright Green-MD	131	50	110	42	55	21
950	Desert Sand-LT	36	13	30	11	15	5
955	Nile Green-LT	416	162	347	135	173	68
956	Geranium	155	59	129	50	65	25
961	Dusty Rose-DK	203	79	170	66	85	33
962	Dusty Rose-MD	299	117	249	98	125	49
963	Dusty Rose-UL VY LT	1008	396	840	330	420	165
986	Forest Green-VY DK	211	83	176	69	88	35
987	Forest Green-DK	567	223	473	186	236	93
988	Forest Green-MD	34	13	29	11	14	5
989	Forest Green	70	27	59	23	29	11
993	Aquamarine-LT	175	68	146	57	73	29
3021	Brown Gray-VY DK	70	27	59	23	29	11
3024	Brown Gray-VY LT	1145	450	954	375	477	188
3032	Mocha Brown-MD	83	32	69	27	35	14
3041	Antique Violet-MD	484	189	404	158	202	79
3046	Yellow Beige-MD	9	2	8	2	4	1
3072	Beaver Gray-VY LT	1395	549	1163	458	581	229
3326	Rose-LT	396	155	330	129	165	65
3350	Dusty Rose-UL DK	887	349	740	291	370	146
3364	Pine Green	38	14	32	12	16	6
3371	Black Brown	142	56	119	47	59	23

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3685	Mauve-DK	441	173	368	144	184	72
3687	Mauve	344	135	287	113	143	56
3706	Melon-MD	108	41	90	35	45	17
3713	Salmon-VY LT	819	322	683	269	341	134
3716	Dusty Rose-VY LT	621	243	518	203	259	101
3721	Shell Pink-DK	121	47	101	39	50	20
3726	Antique Mauve-DK	938	369	782	308	391	154
3727	Antique Mauve-LT	630	247	525	206	263	103
3733	Dusty Rose	347	135	290	113	145	56
3740	Antique Violet-DK	436	171	363	143	182	71
3743	Antique Violet-VY LT	1150	452	959	377	479	188
3753	Antique Blue-UL VY LT	1069	419	891	350	446	175
3756	Baby Blue-UL VY LT	4889	1924	4074	1604	2037	802
3761	Sky Blue-LT	97	38	81	32	41	16
3772	Desert Sand-VY DK	31	11	26	9	13	5
3781	Mocha Brown-DK	61	23	51	20	26	10
3782	Mocha Brown-LT	92	36	77	30	38	15
3799	Pewter Gray-VY DK	1874	736	1562	614	781	307
3801	Christmas Red-LT	250	97	209	81	104	41
3802	Antique Mauve-VY DK	176	68	147	57	74	29
3809	Turquoise-VY DK	29	11	24	9	12	5
3815	Celadon Green-DK	346	135	288	113	144	56
3816	Celadon Green-MD	279	110	233	92	116	46
3823	Yellow-UL Pale	11	4	9	3	5	2
3828	Hazelnut Brown	9	2	8	2	4	1
3830	Terra Cotta-MD	31	11	26	9	13	5
3831	Raspberry-DK	781	306	651	255	326	128
3832	Raspberry-MD	518	203	432	170	216	85
3833	Raspberry-LT	362	142	302	119	151	59
3849	Teal Green-LT	56	22	47	18	23	9
3859	Rosewood-LT	83	32	69	27	35	14
3860	Cocoa	36	13	30	11	15	5
3861	Cocoa-LT	974	382	812	318	406	159
3862	Mocha Beige-DK	36	13	30	11	15	5
3865	Winter White	10721	4219	8934	3516	4467	1758

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	1138	448	1094	431	1053	415
221	Shell Pink-VY DK	36	14	35	13	33	13
223	Shell Pink-LT	172	68	165	65	159	63
224	Shell Pink-VY LT	98	38	94	37	91	35
304	Christmas Red-MD	30	12	29	11	28	11
310	Black	430	169	413	163	398	157
315	Antique Mauve-VY DK	93	36	89	35	86	33
316	Antique Mauve-MD	449	176	432	170	416	163
317	Pewter Gray	28	11	27	10	26	10
318	Steel Gray-LT	41	16	39	15	38	15
320	Pistachio Green-MD	151	59	145	57	140	55
326	Rose-VY DK	140	55	134	53	129	51
335	Rose	162	63	156	61	150	59
347	Salmon-VY DK	41	16	39	15	38	15
350	Coral-MD	4	1	4	1	4	1
351	Coral	4	1	4	1	4	1
355	Terra Cotta-DK	7	2	7	2	7	2

356	Terra Cotta-MD	6	2	6	2	5	2
368	Pistachio Green-LT	72	28	69	27	67	26
369	Pistachio Green-VY LT	86	34	83	33	80	31
413	Pewter Gray-DK	128	50	123	48	119	47
414	Steel Gray-DK	90	35	87	34	83	33
415	Pearl Gray	462	181	444	174	428	168
451	Shell Gray-DK	49	19	47	18	45	17
452	Shell Gray-MD	365	143	351	138	338	133
500	Blue Green-VY DK	420	165	404	159	389	153
501	Blue Green-DK	276	108	265	104	255	100
502	Blue Green	60	23	57	22	55	21
503	Blue Green-MD	136	53	131	51	126	49
520	Fern Green-DK	253	99	243	96	234	92
522	Fern Green	161	63	155	61	149	59
524	Fern Green-VY LT	175	68	168	66	162	63
535	Ash Gray-VY LT	347	136	334	131	321	126
564	Jade-VY LT	135	53	130	51	125	49
580	Moss Green-DK	6	2	6	2	6	2
598	Turquoise-LT	71	27	69	26	66	25
611	Drab Brown	15	6	15	6	14	5
613	Drab Brown-VY LT	20	8	19	8	19	7
640	Beige Gray-VY DK	27	10	26	10	25	9
645	Beaver Gray-VY DK	228	89	219	86	211	83
646	Beaver Gray-DK	78	30	75	29	73	28
647	Beaver Gray-MD	297	117	285	112	275	108
648	Beaver Gray-LT	86	33	82	32	79	31
677	Old Gold-VY LT	3	1	3	1	3	1
701	Christmas Green-LT	73	28	70	27	67	26
738	Tan-VY LT	14	5	13	5	13	5
739	Tan-UL VY LT	3	1	3	1	3	1
745	Yellow-LT Pale	8	3	8	3	7	3
747	Sky Blue-VY LT	161	63	155	61	149	59
762	Pearl Gray-VY LT	1840	724	1769	696	1703	670
778	Antique Mauve-VY LT	328	129	315	124	303	119
819	Baby Pink-LT	420	165	404	159	389	153
830	Golden Olive-DK	12	4	11	4	11	4
838	Beige Brown-VY DK	70	27	67	26	65	25
839	Beige Brown-DK	34	13	33	12	31	12
842	Beige Brown-VY LT	36	14	35	13	33	13
891	Carnation-DK	197	77	189	74	182	71
892	Carnation-MD	61	24	59	23	57	22
895	Hunter Green-VY DK	135	53	129	51	125	49
902	Garnet-VY DK	31	12	30	11	29	11
904	Parrot Green-VY DK	27	10	26	10	25	9
905	Parrot Green-DK	6	2	6	2	5	2
909	Emerald Green-VY DK	125	49	120	47	115	45
912	Emerald Green-LT	109	42	105	41	101	39
913	Nile Green-MD	50	19	48	19	46	18
924	Gray Green--VY DK	30	12	28	11	27	11
926	Gray Green-MD	22	8	21	8	20	7
927	Gray Green-LT	356	140	343	134	330	129
928	Gray Green-VY LT	464	182	447	175	430	169
931	Antique Blue-MD	9	3	8	3	8	3
934	Black Avocado Green	297	117	286	112	275	108
935	Avocado Green-DK	259	102	249	98	240	94
943	Bright Green-MD	53	20	51	19	49	19
950	Desert Sand-LT	14	5	14	5	13	5
955	Nile Green-LT	166	65	160	62	154	60
956	Geranium	62	24	60	23	57	22

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961	Dusty Rose-DK	81	32	78	30	75	29
962	Dusty Rose-MD	120	47	115	45	111	43
963	Dusty Rose-UL VY LT	403	158	388	152	373	147
986	Forest Green-VY DK	84	33	81	32	78	31
987	Forest Green-DK	227	89	218	86	210	83
988	Forest Green-MD	14	5	13	5	13	5
989	Forest Green	28	11	27	10	26	10
993	Aquamarine-LT	70	27	67	26	65	25
3021	Brown Gray-VY DK	28	11	27	10	26	10
3024	Brown Gray-VY LT	458	180	440	173	424	167
3032	Mocha Brown-MD	33	13	32	12	31	12
3041	Antique Violet-MD	194	76	186	73	179	70
3046	Yellow Beige-MD	4	1	3	1	3	1
3072	Beaver Gray-VY LT	558	220	537	211	517	203
3326	Rose-LT	158	62	152	60	147	57
3350	Dusty Rose-UL DK	355	140	341	134	329	129
3364	Pine Green	15	6	15	6	14	5
3371	Black Brown	57	22	55	21	53	21
3685	Mauve-DK	176	69	170	66	163	64
3687	Mauve	138	54	132	52	127	50
3706	Melon-MD	43	17	42	16	40	15
3713	Salmon-VY LT	328	129	315	124	303	119
3716	Dusty Rose-VY LT	248	97	239	93	230	90
3721	Shell Pink-DK	48	19	46	18	45	17
3726	Antique Mauve-DK	375	148	361	142	347	137
3727	Antique Mauve-LT	252	99	242	95	233	91
3733	Dusty Rose	139	54	134	52	129	50
3740	Antique Violet-DK	174	68	168	66	161	63
3743	Antique Violet-VY LT	460	181	442	174	426	167
3753	Antique Blue-UL VY LT	428	168	411	161	396	155
3756	Baby Blue-UL VY LT	1956	770	1880	740	1811	713
3761	Sky Blue-LT	39	15	37	15	36	14
3772	Desert Sand-VY DK	12	4	12	4	11	4
3781	Mocha Brown-DK	24	9	24	9	23	9
3782	Mocha Brown-LT	37	14	35	14	34	13
3799	Pewter Gray-VY DK	750	294	721	283	694	273
3801	Christmas Red-LT	100	39	96	37	93	36
3802	Antique Mauve-VY DK	71	27	68	26	65	25
3809	Turquoise-VY DK	12	4	11	4	11	4
3815	Celadon Green-DK	138	54	133	52	128	50
3816	Celadon Green-MD	112	44	107	42	103	41
3823	Yellow-UL Pale	4	1	4	1	4	1
3828	Hazelnut Brown	4	1	3	1	3	1
3830	Terra Cotta-MD	12	4	12	4	11	4
3831	Raspberry-DK	312	122	300	118	289	113
3832	Raspberry-MD	207	81	199	78	192	75
3833	Raspberry-LT	145	57	139	55	134	53
3849	Teal Green-LT	22	9	21	8	21	8
3859	Rosewood-LT	33	13	32	12	31	12
3860	Cocoa	14	5	14	5	13	5
3861	Cocoa-LT	390	153	375	147	361	141
3862	Mocha Beige-DK	14	5	14	5	13	5
3865	Winter White	4288	1688	4123	1623	3971	1563

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
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		28		30		32	
1	White 1	1016	400	948	373	889	350
221	Shell Pink-VY DK	32	12	30	11	28	11
223	Shell Pink-LT	154	60	143	56	134	53
224	Shell Pink-VY LT	87	34	82	32	77	30
304	Christmas Red-MD	27	10	25	10	24	9
310	Black	384	151	358	141	336	132
315	Antique Mauve-VY DK	83	32	77	30	73	28
316	Antique Mauve-MD	401	158	374	147	351	138
317	Pewter Gray	25	10	23	9	22	8
318	Steel Gray-LT	37	14	34	13	32	12
320	Pistachio Green-MD	135	53	126	49	118	46
326	Rose-VY DK	125	49	116	46	109	43
335	Rose	145	57	135	53	127	50
347	Salmon-VY DK	37	14	34	13	32	12
350	Coral-MD	4	1	4	1	3	1
351	Coral	4	1	4	1	3	1
355	Terra Cotta-DK	6	2	6	2	6	2
356	Terra Cotta-MD	5	2	5	2	5	2
368	Pistachio Green-LT	64	25	60	23	56	22
369	Pistachio Green-VY LT	77	30	72	28	68	26
413	Pewter Gray-DK	114	45	107	42	100	39
414	Steel Gray-DK	80	32	75	29	70	28
415	Pearl Gray	413	162	385	151	361	142
451	Shell Gray-DK	44	17	41	16	38	15
452	Shell Gray-MD	326	128	304	119	285	112
500	Blue Green-VY DK	375	147	350	137	329	129
501	Blue Green-DK	246	96	230	90	215	84
502	Blue Green	53	21	50	19	47	18
503	Blue Green-MD	122	48	113	44	106	42
520	Fern Green-DK	226	89	211	83	197	78
522	Fern Green	144	57	134	53	126	50
524	Fern Green-VY LT	156	61	146	57	137	53
535	Ash Gray-VY LT	310	122	289	113	271	106
564	Jade-VY LT	121	48	113	44	106	42
580	Moss Green-DK	6	2	5	2	5	2
598	Turquoise-LT	64	24	59	23	56	21
611	Drab Brown	14	5	13	5	12	5
613	Drab Brown-VY LT	18	7	17	7	16	6
640	Beige Gray-VY DK	24	9	23	8	21	8
645	Beaver Gray-VY DK	204	80	190	74	178	70
646	Beaver Gray-DK	70	27	65	25	61	24
647	Beaver Gray-MD	265	104	247	97	232	91
648	Beaver Gray-LT	77	30	71	28	67	26
677	Old Gold-VY LT	3	1	2	1	2	1
701	Christmas Green-LT	65	25	61	23	57	22
738	Tan-VY LT	12	5	11	4	11	4
739	Tan-UL VY LT	3	1	2	1	2	1
745	Yellow-LT Pale	7	3	7	2	6	2
747	Sky Blue-VY LT	144	57	134	53	126	50
762	Pearl Gray-VY LT	1643	646	1533	603	1437	565
778	Antique Mauve-VY LT	293	115	273	107	256	101
819	Baby Pink-LT	375	147	350	137	328	129
830	Golden Olive-DK	10	4	10	4	9	3
838	Beige Brown-VY DK	62	24	58	23	55	21
839	Beige Brown-DK	30	12	28	11	26	10
842	Beige Brown-VY LT	32	12	30	11	28	11
891	Carnation-DK	176	69	164	64	154	60
892	Carnation-MD	55	21	51	20	48	19

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895	Hunter Green-VY DK	120	47	112	44	105	41
902	Garnet-VY DK	28	10	26	10	24	9
904	Parrot Green-VY DK	24	9	22	8	21	8
905	Parrot Green-DK	5	2	5	2	5	2
909	Emerald Green-VY DK	111	44	104	41	97	38
912	Emerald Green-LT	97	38	91	35	85	33
913	Nile Green-MD	44	17	41	16	39	15
924	Gray Green--VY DK	26	10	25	10	23	9
926	Gray Green-MD	19	7	18	7	17	6
927	Gray Green-LT	318	125	297	116	278	109
928	Gray Green-VY LT	415	163	387	152	363	142
931	Antique Blue-MD	8	3	7	2	7	2
934	Black Avocado Green	266	104	248	97	232	91
935	Avocado Green-DK	231	91	216	85	203	79
943	Bright Green-MD	47	18	44	17	41	16
950	Desert Sand-LT	13	5	12	4	11	4
955	Nile Green-LT	149	58	139	54	130	51
956	Geranium	55	21	52	20	48	19
961	Dusty Rose-DK	73	28	68	26	64	25
962	Dusty Rose-MD	107	42	100	39	93	37
963	Dusty Rose-UL VY LT	360	141	336	132	315	124
986	Forest Green-VY DK	75	30	70	28	66	26
987	Forest Green-DK	203	80	189	74	177	70
988	Forest Green-MD	12	5	11	4	11	4
989	Forest Green	25	10	23	9	22	8
993	Aquamarine-LT	62	24	58	23	55	21
3021	Brown Gray-VY DK	25	10	23	9	22	8
3024	Brown Gray-VY LT	409	161	382	150	358	141
3032	Mocha Brown-MD	30	12	28	11	26	10
3041	Antique Violet-MD	173	68	161	63	151	59
3046	Yellow Beige-MD	3	1	3	1	3	1
3072	Beaver Gray-VY LT	498	196	465	183	436	172
3326	Rose-LT	141	55	132	52	124	48
3350	Dusty Rose-UL DK	317	125	296	116	277	109
3364	Pine Green	14	5	13	5	12	5
3371	Black Brown	51	20	47	19	44	17
3685	Mauve-DK	158	62	147	58	138	54
3687	Mauve	123	48	115	45	107	42
3706	Melon-MD	39	15	36	14	34	13
3713	Salmon-VY LT	293	115	273	107	256	101
3716	Dusty Rose-VY LT	222	87	207	81	194	76
3721	Shell Pink-DK	43	17	40	16	38	15
3726	Antique Mauve-DK	335	132	313	123	293	115
3727	Antique Mauve-LT	225	88	210	82	197	77
3733	Dusty Rose	124	48	116	45	109	42
3740	Antique Violet-DK	156	61	145	57	136	53
3743	Antique Violet-VY LT	411	161	383	151	359	141
3753	Antique Blue-UL VY LT	382	150	356	140	334	131
3756	Baby Blue-UL VY LT	1746	687	1630	641	1528	601
3761	Sky Blue-LT	35	14	32	13	30	12
3772	Desert Sand-VY DK	11	4	10	4	10	3
3781	Mocha Brown-DK	22	8	20	8	19	7
3782	Mocha Brown-LT	33	13	31	12	29	11
3799	Pewter Gray-VY DK	669	263	625	245	586	230
3801	Christmas Red-LT	89	35	83	32	78	30
3802	Antique Mauve-VY DK	63	24	59	23	55	21
3809	Turquoise-VY DK	10	4	10	4	9	3
3815	Celadon Green-DK	123	48	115	45	108	42
3816	Celadon Green-MD	100	39	93	37	87	34

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3823	Yellow-UL Pale	4	1	4	1	3	1
3828	Hazelnut Brown	3	1	3	1	3	1
3830	Terra Cotta-MD	11	4	10	4	10	3
3831	Raspberry-DK	279	109	260	102	244	96
3832	Raspberry-MD	185	73	173	68	162	64
3833	Raspberry-LT	129	51	121	47	113	44
3849	Teal Green-LT	20	8	19	7	17	7
3859	Rosewood-LT	30	12	28	11	26	10
3860	Cocoa	13	5	12	4	11	4
3861	Cocoa-LT	348	136	325	127	304	119
3862	Mocha Beige-DK	13	5	12	4	11	4
3865	Winter White	3829	1507	3574	1406	3350	1319

[illegible]

[illegible]

[illegible]

$$(21) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (22)$$

$$(22) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (23)$$

$$(23) \quad \mathcal{H}^{\text{reg}}_{\text{reg}} = \mathcal{H}^{\text{reg}}_{\text{reg}} \quad (24)$$

[illegible]

$$(25) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (26)$$

[illegible]

[illegible]

[illegible]

$$(29) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

	10	20	30	40	50
70	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5
80	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5
90	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5
100	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5
110	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5
120	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5
130	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5

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70	[Grid content for row 70]																																																	
80	[Grid content for row 80]																																																	
90	[Grid content for row 90]																																																	
100	[Grid content for row 100]																																																	
110	[Grid content for row 110]																																																	
120	[Grid content for row 120]																																																	
130	[Grid content for row 130]																																																	

	150	160	170	180	190
70					
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130					

[illegible]

	240	250	260	270	280
70					
80					
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100					
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120					
130					

$$(41) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (42)$$

	330	340	350	360	370
70					
80					
90					
100					
110					
120					
130					

[illegible]

[illegible]

	470	480	490	500	510	520
70						
80						
90						
100						
110						
120						
130						

	520	530	540	550	560
70					
80					
90					
100					
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130					

[illegible]

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[illegible]

(51)

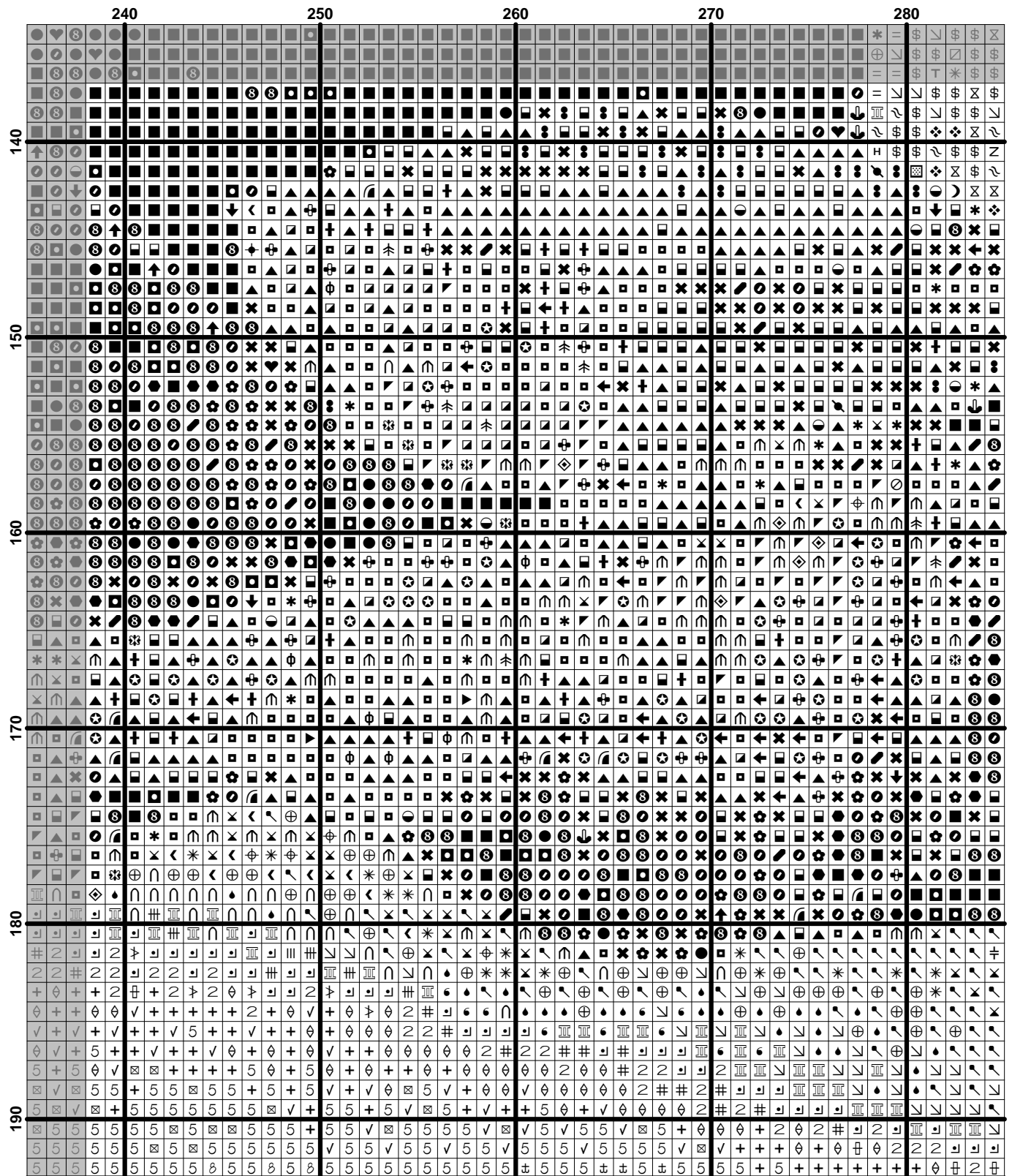
[illegible]

	50	60	70	80	90
140					
150					
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	100	110	120	130	140
140					
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	150	160	170	180	190
140					
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	190	200	210	220	230
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[illegible]

	330	340	350	360	370
140					
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170					
180					
190					

	380	390	400	410	420
140	△	△	△	△	△
150	△	△	△	△	△
160	△	△	△	△	△
170	△	△	△	△	△
180	△	△	△	△	△
190	△	△	△	△	△

[illegible]

	470	480	490	500	510	520
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150
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190

	520	530	540	550	560
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[illegible]

[illegible]

	660	670	680	690	700
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	760																770																780																790																800																																			
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