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## 870 HMS Calcutta



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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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HMS Calcutta			
Stitch Count		Recommended Fabric Color	
Horizontal:	350	Antique White	
Vertical:	262		













































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:	64	24.91	48	18.64	56	21.79	42	16.31	50	19.375	37	14.5
Including Margins:	80	31	64	25	72	28	58	23	66	26	53	21
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	89	34.87	67	26.09	74	29.06	56	21.74	37	14.53	28	10.87
Including Margins:	105	41	83	33	90	36	72	28	53	21	44	17
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	35	13.94	26	10.43	34	13.41	25	10.03	33	12.91	24	9.66
Including Margins:	51	20	42	17	50	20	41	17	49	19	40	16
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	32	12.45	24	9.32	29	11.62	22	8.69	28	10.89	21	8.15
Including Margins:	48	19	40	16	45	18	38	15	44	17	37	15

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

Symbol	DMC	Name
	310	Black
	317	Pewter Gray
	370	Mustard-MD
	371	Mustard
	372	Mustard-LT
	413	Pewter Gray-DK
	422	Hazelnut Brown-LT
	436	Tan
	451	Shell Gray-DK
	500	Blue Green-VY DK
	503	Blue Green-MD
	522	Fern Green
	523	Fern Green-LT
	524	Fern Green-VY LT
	535	Ash Gray-VY LT
	543	Beige Brown-UL VY LT
	564	Jade-VY LT
	610	Drab Brown-DK
	611	Drab Brown
	612	Drab Brown-LT
	613	Drab Brown-VY LT
	640	Beige Gray-VY DK
	642	Beige Gray-DK
	644	Beige Gray-MD
	645	Beaver Gray-VY DK
	646	Beaver Gray-DK
	647	Beaver Gray-MD
	676	Old Gold-LT
	677	Old Gold-VY LT
	712	Cream
	734	Olive Green-LT
	738	Tan-VY LT
	739	Tan-UL VY LT
	745	Yellow-LT Pale
	746	Off White
	801	Coffee Brown-DK
	822	Beige Gray-LT
	829	Golden Olive-VY DK
	830	Golden Olive-DK
	832	Golden Olive
	833	Golden Olive-LT
	834	Golden Olive-VY LT
	838	Beige Brown-VY DK
	839	Beige Brown-DK

	840	Beige Brown-MD
	844	Beaver Brown-UL DK
	898	Coffee Brown-VY DK
	926	Gray Green-MD
	927	Gray Green-LT
	934	Black Avocado Green
	935	Avocado Green-DK
	938	Coffee Brown-UL DK
	948	Peach-VY LT
	951	Tawny-LT
	3011	Khaki Green-DK
	3012	Khaki Green-MD
	3013	Khaki Green-LT
	3021	Brown Gray-VY DK
	3022	Brown Gray-MD
	3023	Brown Gray-LT
	3024	Brown Gray-VY LT
	3031	Mocha Brown-VY DK
	3032	Mocha Brown-MD
	3045	Yellow Beige-DK
	3046	Yellow Beige-MD
	3047	Yellow Beige-LT
	3051	Green Gray-DK
	3052	Green Gray-MD
	3053	Green Gray
	3078	Golden Yellow-VY LT
	3362	Pine Green-DK
	3363	Pine Green-MD
	3371	Black Brown
	3770	Tawny-VY LT
	3781	Mocha Brown-DK
	3782	Mocha Brown-LT
	3787	Brown Gray-DK
	3790	Beige Gray-UL DK
	3799	Pewter Gray-VY DK
	3819	Moss Green-LT
	3821	Straw
	3822	Straw-LT
	3823	Yellow-UL Pale
	3828	Hazelnut Brown
	3855	Autumn Gold-LT
	3862	Mocha Beige-DK
	3863	Mocha Beige-MD
	3864	Mocha Beige-LT
	3865	Winter White
	3866	Mocha Brown-UL VY LT
	Ecu	Ecu

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

Symbol	DMC1	Name1	DMC2	Name2
☒	645	Beaver Gray-VY DK	535	Ash Gray-VY LT
◦	640	Beige Gray-VY DK	3787	Brown Gray-DK
◊	3864	Mocha Beige-LT	738	Tan-VY LT
☛	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
☛	839	Beige Brown-DK	610	Drab Brown-DK
c	739	Tan-UL VY LT	745	Yellow-LT Pale
☛	3022	Brown Gray-MD	3052	Green Gray-MD
◊	772	Yellow Green-VY LT	613	Drab Brown-VY LT
☛	640	Beige Gray-VY DK	3052	Green Gray-MD
☛	522	Fern Green	612	Drab Brown-LT
☛	612	Drab Brown-LT	3013	Khaki Green-LT
☛	738	Tan-VY LT	3013	Khaki Green-LT
☛	535	Ash Gray-VY LT	3363	Pine Green-MD
☛	924	Gray Green-VY DK	844	Beaver Brown-UL DK
☛	844	Beaver Brown-UL DK	3362	Pine Green-DK
☛	3052	Green Gray-MD	3790	Beige Gray-UL DK
m	647	Beaver Gray-MD	564	Jade-VY LT
☛	645	Beaver Gray-VY DK	3052	Green Gray-MD
☛	3363	Pine Green-MD	3790	Beige Gray-UL DK
☛	3052	Green Gray-MD	3787	Brown Gray-DK
☛	3051	Green Gray-DK	935	Avocado Green-DK
☛	535	Ash Gray-VY LT	3787	Brown Gray-DK
☛	3362	Pine Green-DK	3790	Beige Gray-UL DK
☛	3362	Pine Green-DK	3021	Brown Gray-VY DK
☛	3052	Green Gray-MD	3053	Green Gray
☛	3022	Brown Gray-MD	503	Blue Green-MD
☛	3782	Mocha Brown-LT	524	Fern Green-VY LT
☛	3022	Brown Gray-MD	3053	Green Gray
☛	524	Fern Green-VY LT	738	Tan-VY LT
☛	612	Drab Brown-LT	3052	Green Gray-MD
☛	3052	Green Gray-MD	3863	Mocha Beige-MD
☛	935	Avocado Green-DK	3799	Pewter Gray-VY DK
☛	945	Tawny	739	Tan-UL VY LT
☛	945	Tawny	745	Yellow-LT Pale
☛	3046	Yellow Beige-MD	3078	Golden Yellow-VY LT
☛	3078	Golden Yellow-VY LT	738	Tan-VY LT
☛	746	Off White	3823	Yellow-UL Pale
☛	734	Olive Green-LT	612	Drab Brown-LT
☛	612	Drab Brown-LT	422	Hazelnut Brown-LT
☛	3046	Yellow Beige-MD	422	Hazelnut Brown-LT
☛	612	Drab Brown-LT	3828	Hazelnut Brown
☛	3012	Khaki Green-MD	420	Hazelnut Brown-DK
☛	839	Beige Brown-DK	936	Avocado Green-VY DK
☛	3862	Mocha Beige-DK	3011	Khaki Green-DK
☛	3862	Mocha Beige-DK	830	Golden Olive-DK
☛	3781	Mocha Brown-DK	3051	Green Gray-DK
☛	898	Coffee Brown-VY DK	3781	Mocha Brown-DK
☛	611	Drab Brown	370	Mustard-MD
☛	830	Golden Olive-DK	435	Brown-VY LT
☛	3013	Khaki Green-LT	3078	Golden Yellow-VY LT
☛	3862	Mocha Beige-DK	801	Coffee Brown-DK
☛	610	Drab Brown-DK	801	Coffee Brown-DK
☛	830	Golden Olive-DK	869	Hazelnut Brown-VY DK

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*	610	Drab Brown-DK	3862	Mocha Beige-DK
◀	370	Mustard-MD	869	Hazelnut Brown-VY DK
*	3011	Khaki Green-DK	3790	Beige Gray-UL DK
⚙	3011	Khaki Green-DK	611	Drab Brown
▲	3790	Beige Gray-UL DK	936	Avocado Green-VY DK
↑	3013	Khaki Green-LT	3053	Green Gray
☑	3363	Pine Green-MD	3011	Khaki Green-DK
▲	3011	Khaki Green-DK	829	Golden Olive-VY DK
◇	522	Fern Green	3053	Green Gray
↖	612	Drab Brown-LT	523	Fern Green-LT
↙	523	Fern Green-LT	524	Fern Green-VY LT
§	422	Hazelnut Brown-LT	436	Tan
≡	3862	Mocha Beige-DK	435	Brown-VY LT
\$	435	Brown-VY LT	371	Mustard
⬢	3828	Hazelnut Brown	436	Tan
♦♦	3862	Mocha Beige-DK	371	Mustard
⊕	612	Drab Brown-LT	370	Mustard-MD
↔	612	Drab Brown-LT	3863	Mocha Beige-MD
	436	Tan	370	Mustard-MD
⊕	436	Tan	869	Hazelnut Brown-VY DK
△	772	Yellow Green-VY LT	3823	Yellow -UL Pale
▶	3013	Khaki Green-LT	422	Hazelnut Brown-LT
☐	3821	Straw	833	Golden Olive-LT
ℙ	3821	Straw	3822	Straw -LT
6	3827	Golden BrownPale	834	Golden Olive-VY LT
□	832	Golden Olive	734	Olive Green-LT
e	772	Yellow Green-VY LT	543	Beige BrownUL VY LT
6	3022	Brown Gray -MD	451	Shell Gray-DK
⌋	3032	Mocha Brown-MD	3052	Green Gray-MD
☆	612	Drab Brown-LT	3827	Golden BrownPale
5	3822	Straw -LT	833	Golden Olive-LT
↘	3052	Green Gray-MD	524	Fern Green-VY LT
≡	3051	Green Gray-DK	3031	Mocha Brown-VY DK
●	938	Coffee Brown-UL DK	3031	Mocha Brown-VY DK
✦	435	Brown-VY LT	869	Hazelnut Brown-VY DK
/	739	Tan-UL VY LT	772	Yellow Green-VY LT
¼	436	Tan	371	Mustard
⬇	371	Mustard	612	Drab Brown-LT
↙	435	Brown-VY LT	3045	Yellow Beige-DK
∩	371	Mustard	3045	Yellow Beige-DK
☒	838	Beige BrownVY DK	610	Drab Brown-DK
◆	936	Avocado Green-VY DK	898	Coffee Brown-VY DK
☕	801	Coffee Brown-DK	840	Beige BrownMD
⌘	436	Tan	3863	Mocha Beige-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	
310	Black	607	238	578	227	520	204
317	Pewter Gray	17	6	16	6	14	5
370	Mustard-MD	176	69	168	66	151	59
371	Mustard	188	74	179	70	161	63
372	Mustard-LT	235	92	223	87	201	79
413	Pewter Gray -DK	72	28	68	26	61	24
420	Hazelnut Brown-DK	31	12	29	11	26	10
422	Hazelnut Brown-LT	249	98	237	93	213	83
435	Brown-VY LT	45	17	43	16	38	14
436	Tan	47	18	45	17	41	16
451	Shell Gray-DK	61	24	58	22	52	20
500	Blue Green-VY DK	255	100	243	95	219	86
503	Blue Green-MD	50	19	48	18	43	16
522	Fern Green	229	90	218	85	196	77
523	Fern Green-LT	253	99	240	94	216	85
524	Fern Green-VY LT	378	148	360	141	324	127
535	Ash Gray -VY LT	370	145	352	138	317	124
543	Beige Brown-UL VY LT	53	20	51	20	46	18
564	Jade-VY LT	13	5	13	5	11	4
610	Drab Brown-DK	533	209	508	200	457	179
611	Drab Brown	353	138	336	132	302	118
612	Drab Brown-LT	992	390	945	372	850	334
613	Drab Brown-VY LT	161	63	154	60	138	54
640	Beige Gray-VY DK	410	161	391	153	352	138
642	Beige Gray-DK	169	66	161	63	145	57
644	Beige Gray-MD	82	32	78	30	70	27
645	Beaver Gray-VY DK	305	120	290	114	261	102
646	Beaver Gray-DK	127	50	121	47	109	42
647	Beaver Gray-MD	130	51	123	48	111	43
676	Old Gold-LT	27	10	26	10	23	9
677	Old Gold-VY LT	84	33	80	31	72	28
712	Cream	34	13	32	12	29	11
734	Olive Green-LT	113	44	107	42	97	38
738	Tan-VY LT	641	252	610	240	549	216
739	Tan-UL VY LT	121	47	115	45	104	40
745	Yellow -LT Pale	159	62	151	59	136	53
746	Off White	523	205	498	196	448	176
772	Yellow Green-VY LT	142	55	136	53	122	48
801	Coffee Brown-DK	103	40	98	38	88	34
822	Beige Gray-LT	34	13	33	12	29	11
829	Golden Olive-VY DK	135	53	128	50	115	45
830	Golden Olive-DK	153	60	145	57	131	51
832	Golden Olive	17	6	16	6	15	5
833	Golden Olive-LT	62	24	59	23	53	20
834	Golden Olive-VY LT	45	17	42	16	38	14
838	Beige Brown-VY DK	89	35	85	33	76	29
839	Beige Brown-DK	292	114	278	109	251	98
840	Beige Brown-MD	50	19	48	18	43	16
844	Beaver Brown-UL DK	674	265	642	252	578	227
869	Hazelnut Brown-VY DK	67	26	64	25	58	22
898	Coffee Brown-VY DK	222	87	212	83	190	74
924	Gray Green-VY DK	201	79	191	75	172	67
926	Gray Green-MD	24	9	23	9	20	7
927	Gray Green-LT	13	5	12	4	11	4

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934	Black Avocado Green	931	366	887	349	798	314
935	Avocado Green-DK	763	300	727	286	654	257
936	Avocado Green-VY DK	478	188	455	179	410	161
938	Coffee Brown-UL DK	319	125	304	119	273	107
945	Tawny	11	4	11	4	10	3
948	Peach-VY LT	11	4	11	4	9	3
951	Tawny -LT	11	4	10	3	9	3
3011	Khaki Green-DK	555	218	528	207	475	187
3012	Khaki Green-MD	133	52	126	49	114	44
3013	Khaki Green-LT	1008	396	960	377	864	340
3021	Brown Gray -VY DK	925	364	881	346	793	312
3022	Brown Gray -MD	385	151	367	144	330	129
3023	Brown Gray -LT	53	20	51	20	46	18
3024	Brown Gray -VY LT	35	13	33	12	30	11
3031	Mocha Brown-VY DK	710	279	676	266	609	239
3032	Mocha Brown-MD	319	125	304	119	274	107
3045	Yellow Beige-DK	90	35	86	33	77	30
3046	Yellow Beige-MD	241	94	229	90	206	81
3047	Yellow Beige-LT	47	18	45	17	40	15
3051	Green Gray-DK	365	143	348	137	313	123
3052	Green Gray-MD	1436	565	1367	538	1231	484
3053	Green Gray	358	140	341	134	306	120
3078	Golden Yellow -VY LT	511	201	486	191	438	172
3362	Pine Green-DK	605	238	576	226	518	203
3363	Pine Green-MD	279	109	266	104	239	94
3371	Black Brown	318	125	303	119	273	107
3770	Tawny -VY LT	13	5	12	4	11	4
3781	Mocha Brown-DK	384	151	366	144	329	129
3782	Mocha Brown-LT	184	72	176	69	158	62
3787	Brown Gray -DK	567	223	540	212	486	191
3790	Beige Gray-UL DK	933	367	889	350	800	314
3799	Pewter Gray -VY DK	618	243	589	231	530	208
3819	Moss Green-LT	10	3	9	3	8	3
3821	Straw	79	31	75	29	68	26
3822	Straw -LT	88	34	84	33	75	29
3823	Yellow -UL Pale	466	183	444	174	400	157
3827	Golden Brown-Pale	24	9	22	8	20	7
3828	Hazelnut Brown	41	16	39	15	35	13
3855	Autumn Gold-LT	30	11	29	11	26	10
3862	Mocha Beige-DK	283	111	269	105	242	95
3863	Mocha Beige-MD	225	88	214	84	193	75
3864	Mocha Beige-LT	74	29	70	27	63	24
3865	Winter White	204	80	194	76	175	68
3866	Mocha Brown-UL VY LT	41	16	39	15	35	13
Ecru	Ecru	53	20	51	20	46	18

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
310	Black	936	367	780	306	390	153
317	Pewter Gray	25	9	21	8	11	4
370	Mustard-MD	272	106	227	89	113	44
371	Mustard	290	113	242	95	121	47
372	Mustard-LT	362	142	302	119	151	59
413	Pewter Gray -DK	110	43	92	36	46	18
420	Hazelnut Brown-DK	47	18	39	15	20	8



422	Hazelnut Brown-LT	383	149	320	125	160	62
435	Brown-VY LT	68	25	57	21	29	11
436	Tan	74	29	62	24	31	12
451	Shell Gray-DK	94	36	78	30	39	15
500	Blue Green-VY DK	394	155	329	129	164	65
503	Blue Green-MD	77	29	65	24	32	12
522	Fern Green	353	139	294	116	147	58
523	Fern Green-LT	389	153	324	128	162	64
524	Fern Green-VY LT	583	229	486	191	243	95
535	Ash Gray -VY LT	571	223	476	186	238	93
543	Beige Brown-UL VY LT	83	32	69	27	35	14
564	Jade-VY LT	20	7	17	6	8	3
610	Drab Brown-DK	823	322	686	269	343	134
611	Drab Brown	544	212	453	177	227	89
612	Drab Brown-LT	1530	601	1275	501	638	251
613	Drab Brown-VY LT	248	97	207	81	104	41
640	Beige Gray-VY DK	634	248	528	207	264	104
642	Beige Gray-DK	261	103	218	86	109	43
644	Beige Gray-MD	126	49	105	41	53	20
645	Beaver Gray-VY DK	470	184	392	153	196	77
646	Beaver Gray-DK	196	76	164	63	82	32
647	Beaver Gray-MD	200	77	167	65	83	32
676	Old Gold-LT	41	16	35	14	17	7
677	Old Gold-VY LT	130	50	108	42	54	21
712	Cream	52	20	44	17	22	8
734	Olive Green-LT	175	68	146	57	73	29
738	Tan-VY LT	988	389	824	324	412	162
739	Tan-UL VY LT	187	72	156	60	78	30
745	Yellow -LT Pale	245	95	204	80	102	40
746	Off White	806	317	672	264	336	132
772	Yellow Green-VY LT	220	86	183	72	92	36
801	Coffee Brown-DK	158	61	132	51	66	26
822	Beige Gray-LT	52	20	44	17	22	8
829	Golden Olive-VY DK	207	81	173	68	86	34
830	Golden Olive-DK	236	92	197	77	98	38
832	Golden Olive	27	9	23	8	11	4
833	Golden Olive-LT	95	36	80	30	40	15
834	Golden Olive-VY LT	68	25	57	21	29	11
838	Beige Brown-VY DK	137	52	114	44	57	22
839	Beige Brown-DK	452	176	377	147	188	74
840	Beige Brown-MD	77	29	65	24	32	12
844	Beaver Brown-UL DK	1040	409	867	341	434	170
869	Hazelnut Brown-VY DK	104	40	87	33	44	17
898	Coffee Brown-VY DK	342	133	285	111	143	56
924	Gray Green-VY DK	310	121	258	101	129	50
926	Gray Green-MD	36	13	30	11	15	5
927	Gray Green-LT	20	7	17	6	8	3
934	Black Avocado Green	1436	565	1197	471	599	236
935	Avocado Green-DK	1177	463	981	386	491	193
936	Avocado Green-VY DK	738	290	615	242	308	121
938	Coffee Brown-UL DK	491	193	410	161	205	80
945	Tawny	18	5	15	5	8	2
948	Peach-VY LT	16	5	14	5	7	2
951	Tawny -LT	16	5	14	5	7	2
3011	Khaki Green-DK	855	337	713	281	356	140
3012	Khaki Green-MD	205	79	171	66	86	33
3013	Khaki Green-LT	1555	612	1296	510	648	255
3021	Brown Gray -VY DK	1427	562	1190	468	595	234
3022	Brown Gray -MD	594	232	495	194	248	97

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3023	Brown Gray -LT	83	32	69	27	35	14
3024	Brown Gray -VY LT	54	20	45	17	23	8
3031	Mocha Brown-VY DK	1096	430	914	359	457	179
3032	Mocha Brown-MD	493	193	411	161	206	80
3045	Yellow Beige-DK	139	54	116	45	58	23
3046	Yellow Beige-MD	371	146	309	122	155	61
3047	Yellow Beige-LT	72	27	60	23	30	11
3051	Green Gray-DK	563	221	470	185	235	92
3052	Green Gray-MD	2216	871	1847	726	923	363
3053	Green Gray	551	216	459	180	230	90
3078	Golden Yellow -VY LT	788	310	657	258	329	129
3362	Pine Green-DK	932	365	777	305	389	152
3363	Pine Green-MD	430	169	359	141	179	71
3371	Black Brown	491	193	410	161	205	80
3770	Tawny -VY LT	20	7	17	6	8	3
3781	Mocha Brown-DK	592	232	494	194	247	97
3782	Mocha Brown-LT	284	112	237	93	119	47
3787	Brown Gray -DK	875	344	729	287	365	143
3790	Beige Gray-UL DK	1440	565	1200	471	600	236
3799	Pewter Gray -VY DK	954	374	795	312	398	156
3819	Moss Green-LT	14	5	12	5	6	2
3821	Straw	122	47	102	39	51	20
3822	Straw -LT	135	52	113	44	56	22
3823	Yellow -UL Pale	720	283	600	236	300	118
3827	Golden BrownPale	36	13	30	11	15	5
3828	Hazelnut Brown	63	23	53	20	26	10
3855	Autumn Gold-LT	47	18	39	15	20	8
3862	Mocha Beige-DK	436	171	363	143	182	71
3863	Mocha Beige-MD	347	135	290	113	145	56
3864	Mocha Beige-LT	113	43	95	36	47	18
3865	Winter White	315	122	263	102	131	51
3866	Mocha Brown-UL VY LT	63	23	53	20	26	10
Ecrú	Ecrú	83	32	69	27	35	14

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
310	Black	374	147	360	141	347	136
317	Pewter Gray	10	4	10	3	9	3
370	Mustard-MD	109	42	105	41	101	39
371	Mustard	116	45	111	44	107	42
372	Mustard-LT	145	57	139	55	134	53
413	Pewter Gray -DK	44	17	42	17	41	16
420	Hazelnut Brown-DK	19	7	18	7	17	7
422	Hazelnut Brown-LT	153	60	147	57	142	55
435	Brown-VY LT	27	10	26	10	25	9
436	Tan	30	12	28	11	27	11
451	Shell Gray-DK	37	14	36	14	35	13
500	Blue Green-VY DK	158	62	152	60	146	57
503	Blue Green-MD	31	12	30	11	29	11
522	Fern Green	141	55	136	53	131	51
523	Fern Green-LT	156	61	150	59	144	57
524	Fern Green-VY LT	233	91	224	88	216	85
535	Ash Gray -VY LT	228	89	219	86	211	83
543	Beige Brown-UL VY LT	33	13	32	12	31	12
564	Jade-VY LT	8	3	8	3	7	3

610	Drab Brown-DK	329	129	316	124	305	119
611	Drab Brown	217	85	209	82	201	79
612	Drab Brown-LT	612	240	588	231	567	223
613	Drab Brown-VY LT	99	39	96	37	92	36
640	Beige Gray-VY DK	253	99	244	96	235	92
642	Beige Gray-DK	104	41	100	39	97	38
644	Beige Gray-MD	50	19	48	19	47	18
645	Beaver Gray-VY DK	188	73	181	71	174	68
646	Beaver Gray-DK	78	30	75	29	73	28
647	Beaver Gray-MD	80	31	77	30	74	29
676	Old Gold-LT	17	6	16	6	15	6
677	Old Gold-VY LT	52	20	50	19	48	19
712	Cream	21	8	20	8	19	7
734	Olive Green-LT	70	27	67	26	65	25
738	Tan-VY LT	395	156	380	150	366	144
739	Tan-UL VY LT	75	29	72	28	69	27
745	Yellow-LT Pale	98	38	94	37	91	35
746	Off White	323	127	310	122	299	117
772	Yellow Green-VY LT	88	35	84	33	81	32
801	Coffee Brown-DK	63	24	61	24	59	23
822	Beige Gray-LT	21	8	20	8	19	7
829	Golden Olive-VY DK	83	32	80	31	77	30
830	Golden Olive-DK	94	37	91	35	87	34
832	Golden Olive	11	4	10	3	10	3
833	Golden Olive-LT	38	14	37	14	35	13
834	Golden Olive-VY LT	27	10	26	10	25	9
838	Beige Brown-VY DK	55	21	53	20	51	19
839	Beige Brown-DK	181	71	174	68	167	65
840	Beige Brown-MD	31	12	30	11	29	11
844	Beaver Brown-UL DK	416	163	400	157	385	151
869	Hazelnut Brown-VY DK	42	16	40	15	39	15
898	Coffee Brown-VY DK	137	53	132	51	127	49
924	Gray Green-VY DK	124	48	119	46	115	45
926	Gray Green-MD	14	5	14	5	13	5
927	Gray Green-LT	8	3	8	3	7	3
934	Black Avocado Green	575	226	552	217	532	209
935	Avocado Green-DK	471	185	453	178	436	171
936	Avocado Green-VY DK	295	116	284	111	273	107
938	Coffee Brown-UL DK	197	77	189	74	182	71
945	Tawny	7	2	7	2	7	2
948	Peach-VY LT	6	2	6	2	6	2
951	Tawny-LT	6	2	6	2	6	2
3011	Khaki Green-DK	342	135	329	129	317	125
3012	Khaki Green-MD	82	32	79	30	76	29
3013	Khaki Green-LT	622	245	598	235	576	227
3021	Brown Gray-VY DK	571	225	549	216	529	208
3022	Brown Gray-MD	238	93	228	89	220	86
3023	Brown Gray-LT	33	13	32	12	31	12
3024	Brown Gray-VY LT	22	8	21	8	20	7
3031	Mocha Brown-VY DK	438	172	422	165	406	159
3032	Mocha Brown-MD	197	77	190	74	183	71
3045	Yellow Beige-DK	55	22	53	21	51	20
3046	Yellow Beige-MD	148	58	143	56	137	54
3047	Yellow Beige-LT	29	11	28	10	27	10
3051	Green Gray-DK	225	89	217	85	209	82
3052	Green Gray-MD	886	348	852	335	821	323
3053	Green Gray	220	86	212	83	204	80
3078	Golden Yellow-VY LT	315	124	303	119	292	115
3362	Pine Green-DK	373	146	359	141	345	135

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3363	Pine Green-MD	172	68	165	65	159	63
3371	Black Brown	197	77	189	74	182	71
3770	Tawny -VY LT	8	3	8	3	7	3
3781	Mocha Brown-DK	237	93	228	89	219	86
3782	Mocha Brown-LT	114	45	109	43	105	41
3787	Brown Gray -DK	350	138	336	132	324	127
3790	Beige Gray-UL DK	576	226	554	217	533	209
3799	Pewter Gray -VY DK	382	150	367	144	353	139
3819	Moss Green-LT	6	2	6	2	5	2
3821	Straw	49	19	47	18	45	17
3822	Straw -LT	54	21	52	20	50	19
3823	Yellow -UL Pale	288	113	277	109	267	105
3827	Golden BrownPale	14	5	14	5	13	5
3828	Hazelnut Brown	25	9	24	9	23	9
3855	Autumn Gold-LT	19	7	18	7	17	7
3862	Mocha Beige-DK	174	68	168	66	161	63
3863	Mocha Beige-MD	139	54	134	52	129	50
3864	Mocha Beige-LT	45	17	44	17	42	16
3865	Winter White	126	49	121	47	117	45
3866	Mocha Brown-UL VY LT	25	9	24	9	23	9
Ecu	Ecu	33	13	32	12	31	12

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
310	Black	334	131	312	122	293	115
317	Pewter Gray	9	3	8	3	8	3
370	Mustard-MD	97	38	91	35	85	33
371	Mustard	104	41	97	38	91	35
372	Mustard-LT	129	51	121	47	113	44
413	Pewter Gray -DK	39	15	37	14	34	14
420	Hazelnut Brown-DK	17	6	16	6	15	6
422	Hazelnut Brown-LT	137	53	128	50	120	47
435	Brown-VY LT	24	9	23	8	21	8
436	Tan	26	10	25	10	23	9
451	Shell Gray-DK	33	13	31	12	29	11
500	Blue Green-VY DK	141	55	131	52	123	48
503	Blue Green-MD	28	10	26	10	24	9
522	Fern Green	126	50	118	46	110	43
523	Fern Green-LT	139	55	130	51	122	48
524	Fern Green-VY LT	208	82	194	76	182	71
535	Ash Gray -VY LT	204	80	190	74	178	70
543	Beige Brown-UL VY LT	30	12	28	11	26	10
564	Jade-VY LT	7	3	7	2	6	2
610	Drab Brown-DK	294	115	274	107	257	101
611	Drab Brown	194	76	181	71	170	66
612	Drab Brown-LT	546	215	510	200	478	188
613	Drab Brown-VY LT	89	35	83	32	78	30
640	Beige Gray-VY DK	226	89	211	83	198	78
642	Beige Gray-DK	93	37	87	34	82	32
644	Beige Gray-MD	45	17	42	16	39	15
645	Beaver Gray-VY DK	168	66	157	61	147	57
646	Beaver Gray-DK	70	27	65	25	61	24
647	Beaver Gray-MD	71	28	67	26	62	24
676	Old Gold-LT	15	6	14	5	13	5
677	Old Gold-VY LT	46	18	43	17	41	16
712	Cream	19	7	17	7	16	6

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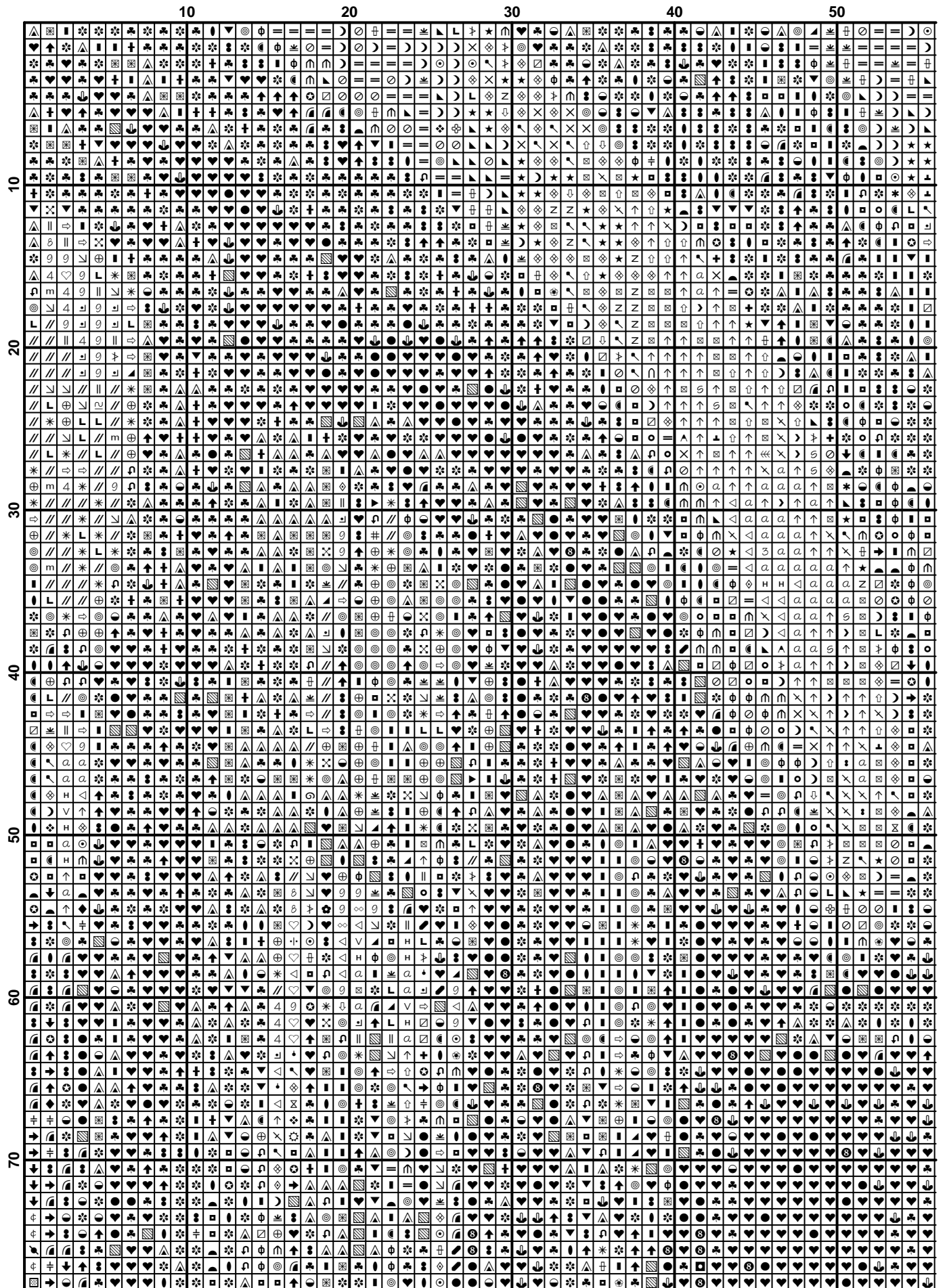
734	Olive Green-LT	62	24	58	23	55	21
738	Tan-VY LT	353	139	329	130	309	122
739	Tan-UL VY LT	67	26	62	24	59	23
745	Yellow -LT Pale	87	34	82	32	77	30
746	Off White	288	113	269	106	252	99
772	Yellow Green-VY LT	78	31	73	29	69	27
801	Coffee Brown-DK	57	22	53	20	50	19
822	Beige Gray-LT	19	7	17	7	16	6
829	Golden Olive-VY DK	74	29	69	27	65	25
830	Golden Olive-DK	84	33	79	31	74	29
832	Golden Olive	10	3	9	3	8	3
833	Golden Olive-LT	34	13	32	12	30	11
834	Golden Olive-VY LT	24	9	23	8	21	8
838	Beige Brown-VY DK	49	19	46	17	43	16
839	Beige Brown-DK	161	63	151	59	141	55
840	Beige Brown-MD	28	10	26	10	24	9
844	Beaver Brown-UL DK	372	146	347	136	325	128
869	Hazelnut Brown-VY DK	37	14	35	13	33	12
898	Coffee Brown-VY DK	122	48	114	44	107	42
924	Gray Green-VY DK	111	43	103	40	97	38
926	Gray Green-MD	13	5	12	4	11	4
927	Gray Green-LT	7	3	7	2	6	2
934	Black Avocado Green	513	202	479	188	449	177
935	Avocado Green-DK	420	165	392	154	368	145
936	Avocado Green-VY DK	264	104	246	97	231	91
938	Coffee Brown-UL DK	176	69	164	64	154	60
945	Tawny	6	2	6	2	6	2
948	Peach-VY LT	6	2	5	2	5	2
951	Tawny -LT	6	2	5	2	5	2
3011	Khaki Green-DK	305	120	285	112	267	105
3012	Khaki Green-MD	73	28	68	26	64	25
3013	Khaki Green-LT	555	219	518	204	486	191
3021	Brown Gray -VY DK	510	201	476	187	446	176
3022	Brown Gray -MD	212	83	198	77	186	73
3023	Brown Gray -LT	30	12	28	11	26	10
3024	Brown Gray -VY LT	19	7	18	7	17	6
3031	Mocha Brown-VY DK	392	154	365	143	343	134
3032	Mocha Brown-MD	176	69	164	64	154	60
3045	Yellow Beige-DK	50	19	46	18	43	17
3046	Yellow Beige-MD	132	52	124	49	116	46
3047	Yellow Beige-LT	26	10	24	9	23	8
3051	Green Gray-DK	201	79	188	74	176	69
3052	Green Gray-MD	791	311	739	290	692	272
3053	Green Gray	197	77	184	72	172	68
3078	Golden Yellow -VY LT	282	111	263	103	246	97
3362	Pine Green-DK	333	131	311	122	291	114
3363	Pine Green-MD	154	60	143	56	134	53
3371	Black Brown	176	69	164	64	154	60
3770	Tawny -VY LT	7	3	7	2	6	2
3781	Mocha Brown-DK	212	83	197	77	185	73
3782	Mocha Brown-LT	102	40	95	37	89	35
3787	Brown Gray -DK	312	123	292	115	273	107
3790	Beige Gray-UL DK	514	202	480	188	450	177
3799	Pewter Gray -VY DK	341	134	318	125	298	117
3819	Moss Green-LT	5	2	5	2	5	2
3821	Straw	44	17	41	16	38	15
3822	Straw -LT	48	19	45	17	42	16
3823	Yellow -UL Pale	257	101	240	94	225	88
3827	Golden Brown-Pale	13	5	12	4	11	4

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3828	Hazelnut Brown	23	8	21	8	20	7
3855	Autumn Gold-LT	17	6	16	6	15	6
3862	Mocha Beige-DK	156	61	145	57	136	53
3863	Mocha Beige-MD	124	48	116	45	109	42
3864	Mocha Beige-LT	41	15	38	14	35	14
3865	Winter White	113	44	105	41	98	38
3866	Mocha Brown-UL VY LT	23	8	21	8	20	7
Ecrú	Ecrú	30	12	28	11	26	10





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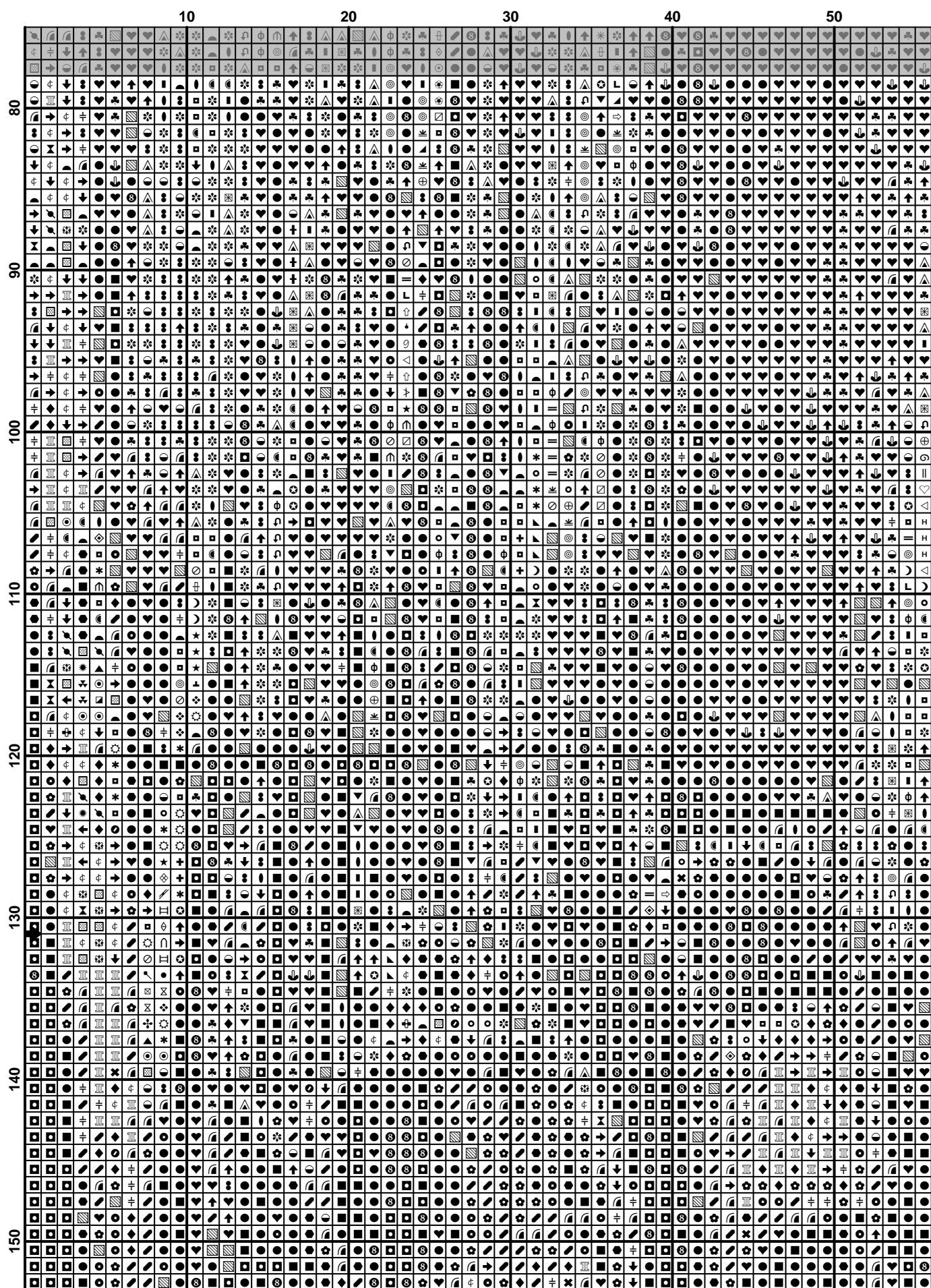
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	160	170	180	190	200	210
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	220	230	240	250	260
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20					
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50					
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70					

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

(14)





This image displays a large grid of 150 rows and 100 columns of small, colorful icons and symbols. The grid is organized into a structured layout with row and column headers. The row headers are labeled 60, 70, 80, 90, 100, 110, 120, 130, 140, and 150, positioned to the left of the grid. The column headers are labeled 60, 70, 80, 90, and 100, positioned at the top of the grid. The icons and symbols are arranged in a repeating pattern, with each row and column containing a unique sequence of symbols. The symbols include various geometric shapes, letters, numbers, and abstract designs, all rendered in a consistent color palette. The grid is presented in a clean, professional format, suitable for use as a reference or a decorative element.

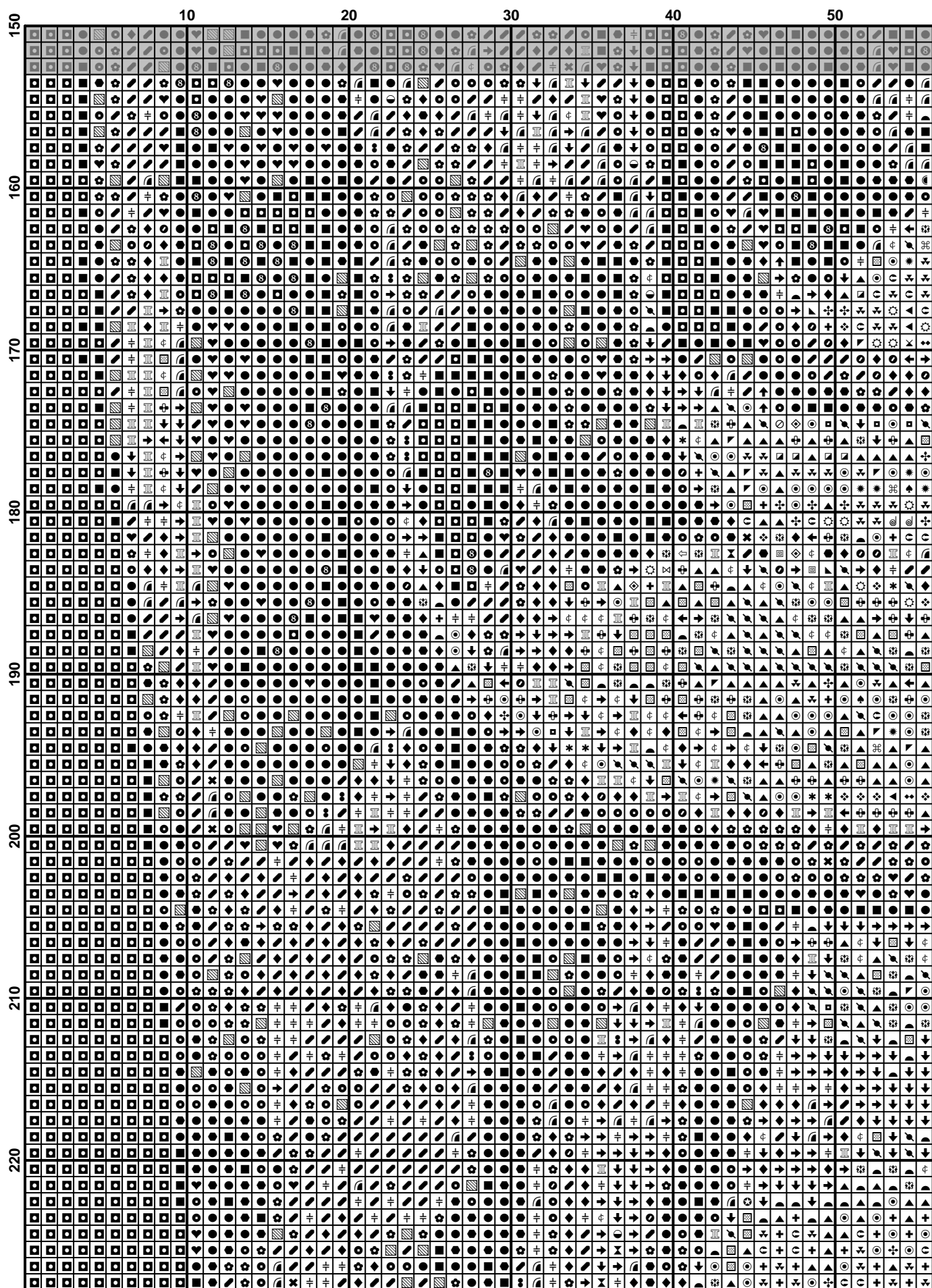
	110	120	130	140	150	160
80	...	...	...	...	...	...
90	...	...	...	...	...	...
100	...	...	...	...	...	...
110	...	...	...	...	...	...
120	...	...	...	...	...	...
130	...	...	...	...	...	...
140	...	...	...	...	...	...
150	...	...	...	...	...	...

	160	170	180	190	200	210
80						
90						
100						
110						
120						
130						
140						
150						

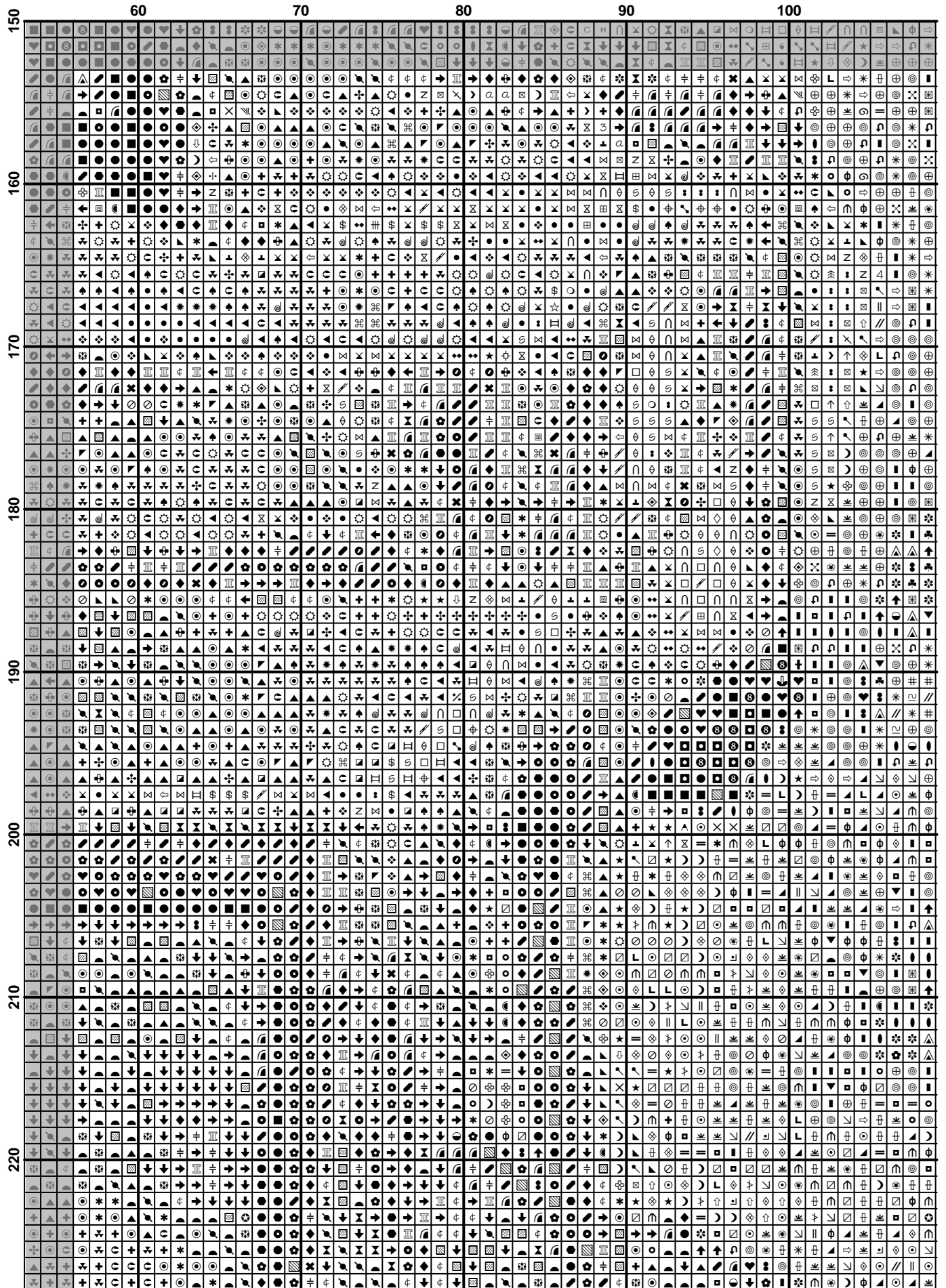
	220	230	240	250	260
80	...	...	...	...	...
90	...	...	...	...	...
100	...	...	...	...	...
110	...	...	...	...	...
120	...	...	...	...	...
130	...	...	...	...	...
140	...	...	...	...	...
150	...	...	...	...	...

[illegible]

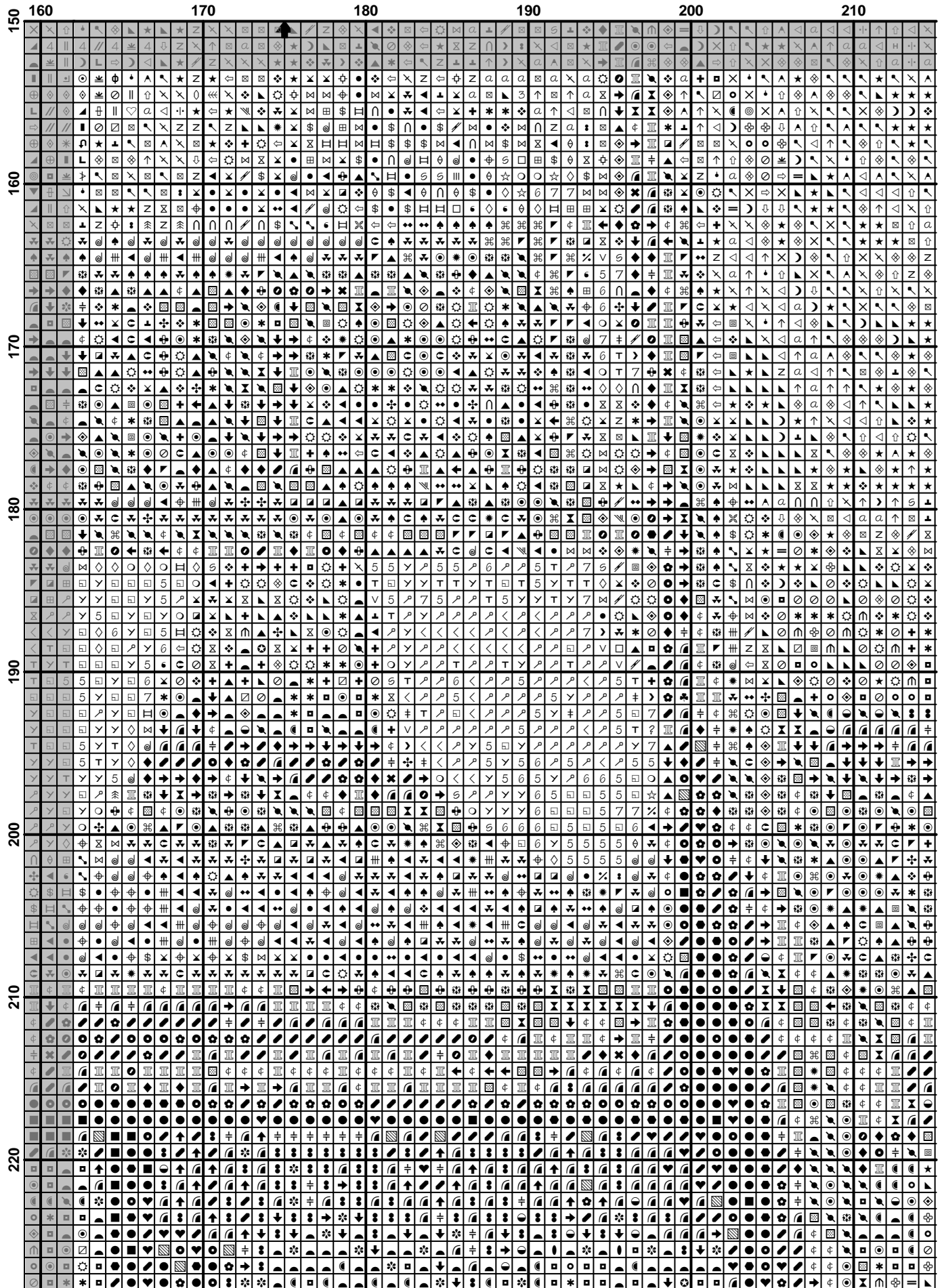
(21)







	110	120	130	140	150	160
150						
160						
170						
180						
190						
200						
210						
220						



	220	230	240	250	260
150					
160					
170					
180					
190					
200					
210					
220					

