

1398 Blue Pansy



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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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Blue Pansy

Stitch Count	
Horizontal:	200
Vertical:	145

Recommended Fabric Color
Antique White

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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:	36	14.14	27	10.28	32	12.37	23	9	28	11	21	8
Including Margins:	52	21	43	17	48	19	39	16	44	18	37	15
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	50	19.79	37	14.39	42	16.49	31	11.99	21	8.24	15	5.99
Including Margins:	66	26	53	21	58	23	47	18	37	15	31	12
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	20	7.91	15	5.75	19	7.61	14	5.53	18	7.33	14	5.33
Including Margins:	36	14	31	12	35	14	30	12	34	14	30	12
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	18	7.07	13	5.14	16	6.59	12	4.79	15	6.18	11	4.49
Including Margins:	34	14	29	12	32	13	28	11	31	13	27	11

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
×	209	Lavender-DK
○	210	Lavender-MD
5	211	Lavender-LT
■	221	Shell Pink-VY DK
➔	300	Mahogany-VY DK
■	310	Black
☯	311	Navy Blue-MD
○	317	Pewter Gray
⦿	333	Blue Violet-VY DK
⦿	368	Pistachio Green-LT
:	369	Pistachio Green-VY LT
⚡	414	Steel Gray-DK
×	435	Brown-VY LT
♡	445	Lemon-LT
✚	452	Shell Gray-MD
⦿	470	Avocado Green-LT
✓	472	Avocado Green-UL LT
⊕	503	Blue Green-MD
⊗	564	Jade-VY LT
■	580	Moss Green-DK
☘	581	Moss Green
·	598	Turquoise-LT
●	632	Desert Sand-UL VY DK
=	645	Beaver Gray-VY DK
H	646	Beaver Gray-DK
\$	647	Beaver Gray-MD
•	648	Beaver Gray-LT
(677	Old Gold-VY LT
⦿	700	Christmas Green-BRT
*	701	Christmas Green-LT
#	704	Chartreuse-BRT
◊	712	Cream
◊	739	Tan-UL VY LT
«	746	Off White
•	762	Pearl Gray-VY LT
)	772	Yellow Green-VY LT
⦿	783	Topaz-MD
⦿	793	Cornflower Blue-MD
⦿	801	Coffee Brown-DK
n	819	Baby Pink-LT
○	822	Beige Gray-LT
■	823	Navy Blue-DK
⚡	824	Blue-VY DK
+	828	Blue-UL VY LT
♣	839	Beige Brown-DK
⦿	869	Hazelnut Brown-VY DK
⦿	895	Hunter Green-VY DK
⦿	904	Parrot Green-VY DK

✱	905	Parrot Green-DK
⦿	911	Emerald Green-MD
⦿	912	Emerald Green-LT
×	913	Nile Green-MD
⚡	924	Gray Green--VY DK
✚	926	Gray Green-MD
✚	927	Gray Green-LT
✚	935	Avocado Green-DK
♥	938	Coffee Brown-UL DK
⚡	943	Bright Green-MD
/	950	Desert Sand-LT
≡	959	Sea Green-MD
◇	964	Sea Green-LT
—	972	Canary-DK
β	973	Canary-BRT
▼	975	Golden Brown-DK
⬤	986	Forest Green-VY DK
☘	989	Forest Green
■	995	Electric Blue-DK
4	3024	Brown Gray-VY LT
⦿	3032	Mocha Brown-MD
☾	3041	Antique Violet-MD
⦿	3045	Yellow Beige-DK
3	3046	Yellow Beige-MD
^	3078	Golden Yellow-VY LT
⦿	3346	Hunter Green
⦿	3347	Yellow Green-MD
H	3348	Yellow Green-LT
⦿	3362	Pine Green-DK
⦿	3364	Pine Green
⦿	3721	Shell Pink-DK
⦿	3722	Shell Pink-MD
☞	3750	Antique Blue-VY DK
~	3756	Baby Blue-UL VY LT
↑	3766	Peacock Blue-LT
⦿	3778	Terra Cotta-LT
III	3782	Mocha Brown-LT
⦿	3787	Brown Gray-DK
⦿	3790	Beige Gray-UL DK
⬤	3799	Pewter Gray-VY DK
♠	3809	Turquoise-VY DK
7	3819	Moss Green-LT
∞	3823	Yellow-UL Pale
☞	3844	Bright Turquoise-DK
⦿	3845	Bright Turquoise-MD
●	3860	Cocoa
1	3865	Winter White
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Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.

Symbol	DMC1	Name1	DMC2	Name2
↔	435	Brown-VY LT	632	Desert Sand-UL VY DK
▲	503	Blue Green-MD	564	Jade-VY LT
●	310	Black	3799	Pewter Gray-VY DK
⊕	3045	Yellow Beige-DK	3363	Pine Green-MD
▲	3787	Brown Gray-DK	3802	Antique Mauve-VY DK
‡	3782	Mocha Brown-LT	3778	Terra Cotta-LT
田	210	Lavender-MD	340	Blue Violet-MD
◇	209	Lavender-DK	333	Blue Violet-VY DK
†	209	Lavender-DK	318	Steel Gray-LT
✱	327	Violet-VY DK	3809	Turquoise-VY DK
▲	470	Avocado Green-LT	905	Parrot Green-DK
◀	989	Forest Green	3347	Yellow Green-MD
▲	320	Pistachio Green-MD	3362	Pine Green-DK
└	320	Pistachio Green-MD	562	Jade-MD
←	904	Parrot Green-VY DK	935	Avocado Green-DK
◊	704	Chartreuse-BRT	470	Avocado Green-LT
◇	704	Chartreuse-BRT	733	Olive Green-MD
◀	869	Hazelnut Brown-VY DK	3346	Hunter Green
◊	581	Moss Green	733	Olive Green-MD
★	904	Parrot Green-VY DK	989	Forest Green
◊	895	Hunter Green-VY DK	905	Parrot Green-DK
●	310	Black	895	Hunter Green-VY DK
◆	895	Hunter Green-VY DK	935	Avocado Green-DK
⊠	3823	Yellow-UL Pale	3778	Terra Cotta-LT
↔	3046	Yellow Beige-MD	783	Topaz-MD
✦	435	Brown-VY LT	3790	Beige Gray-UL DK
✦	975	Golden Brown-DK	3778	Terra Cotta-LT
↓	3809	Turquoise-VY DK	3750	Antique Blue-VY DK
Ⓢ	823	Navy Blue-DK	3750	Antique Blue-VY DK
✦	3844	Bright Turquoise-DK	824	Blue-VY DK
//	3844	Bright Turquoise-DK	3845	Bright Turquoise-MD
/	3843	Electric Blue	3845	Bright Turquoise-MD
⊕	924	Gray Green--VY DK	310	Black
↑	3750	Antique Blue-VY DK	924	Gray Green--VY DK
⊕	317	Pewter Gray	924	Gray Green--VY DK
+	221	Shell Pink-VY DK	3722	Shell Pink-MD
*	209	Lavender-DK	793	Cornflower Blue-MD
	211	Lavender-LT	819	Baby Pink-LT
◊	959	Sea Green-MD	3845	Bright Turquoise-MD
⋈	943	Bright Green-MD	959	Sea Green-MD
⊕	912	Emerald Green-LT	562	Jade-MD
✱	580	Moss Green-DK	905	Parrot Green-DK
◊	3844	Bright Turquoise-DK	995	Electric Blue-DK
└	3845	Bright Turquoise-MD	995	Electric Blue-DK
†	317	Pewter Gray	3799	Pewter Gray-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	
209	Lavender-DK	35	13	33	12	30	11
210	Lavender-MD	79	31	75	29	67	26
211	Lavender-LT	146	57	139	54	125	49
221	Shell Pink-VY DK	10	3	9	3	8	3
300	Mahogany-VY DK	16	6	16	6	14	5
310	Black	1900	748	1809	712	1628	640
311	Navy Blue-MD	49	19	46	18	42	16
317	Pewter Gray	61	24	58	22	52	20
318	Steel Gray-LT	8	3	8	3	7	2
320	Pistachio Green-MD	35	13	33	12	30	11
327	Violet-VY DK	8	3	8	3	7	2
333	Blue Violet-VY DK	16	6	15	5	14	5
340	Blue Violet-MD	13	5	12	4	11	4
368	Pistachio Green-LT	25	9	24	9	22	8
369	Pistachio Green-VY LT	29	11	27	10	25	9
414	Steel Gray-DK	29	11	28	11	25	9
435	Brown-VY LT	28	11	27	10	24	9
445	Lemon-LT	11	4	11	4	9	3
452	Shell Gray-MD	28	11	27	10	24	9
470	Avocado Green-LT	135	53	129	50	116	45
472	Avocado Green-UL LT	5	1	5	1	4	1
503	Blue Green-MD	34	13	32	12	29	11
562	Jade-MD	33	12	31	12	28	11
564	Jade-VY LT	30	11	28	11	25	9
580	Moss Green-DK	107	42	102	40	92	36
581	Moss Green	67	26	64	25	58	22
598	Turquoise-LT	11	4	10	3	9	3
632	Desert Sand-UL VY DK	17	6	16	6	14	5
645	Beaver Gray-VY DK	52	20	49	19	44	17
646	Beaver Gray-DK	73	28	69	27	62	24
647	Beaver Gray-MD	53	20	51	20	45	17
648	Beaver Gray-LT	64	25	61	24	54	21
677	Old Gold-VY LT	12	4	12	4	11	4
700	Christmas Green-BRT	20	7	19	7	17	6
701	Christmas Green-LT	28	11	26	10	24	9
704	Chartreuse-BRT	35	13	33	12	30	11
712	Cream	26	10	25	9	22	8
733	Olive Green-MD	14	5	13	5	12	4
739	Tan-UL VY LT	31	12	29	11	26	10
746	Off White	329	129	313	123	282	111
762	Pearl Gray-VY LT	6	2	6	2	5	1
772	Yellow Green-VY LT	18	7	17	6	15	5
783	Topaz-MD	13	5	12	4	11	4
793	Cornflower Blue-MD	20	7	19	7	17	6
801	Coffee Brown-DK	36	14	35	13	31	12
819	Baby Pink-LT	138	54	131	51	118	46
822	Beige Gray-LT	50	19	47	18	43	16
823	Navy Blue-DK	93	36	88	34	79	31
824	Blue-VY DK	125	49	119	46	107	42
828	Blue-UL VY LT	5	1	5	1	4	1
839	Beige Brown-DK	71	27	68	26	61	24
869	Hazelnut Brown-VY DK	24	9	22	8	20	7
895	Hunter Green-VY DK	324	127	308	121	277	109

904	Parrot Green-VY DK	304	119	289	113	260	102
905	Parrot Green-DK	278	109	265	104	239	94
911	Emerald Green-MD	15	5	14	5	13	5
912	Emerald Green-LT	38	14	36	14	32	12
913	Nile Green-MD	20	7	19	7	17	6
924	Gray Green--VY DK	118	46	112	44	101	39
926	Gray Green-MD	19	7	18	7	16	6
927	Gray Green-LT	27	10	26	10	23	9
935	Avocado Green-DK	354	139	337	132	304	119
938	Coffee Brown-UL DK	124	48	118	46	106	41
943	Bright Green-MD	18	7	17	6	16	6
950	Desert Sand-LT	27	10	26	10	23	9
959	Sea Green-MD	26	10	25	9	22	8
964	Sea Green-LT	4	1	4	1	4	1
972	Canary-DK	15	5	15	5	13	5
973	Canary-BRT	25	9	23	9	21	8
975	Golden Brown-DK	14	5	14	5	12	4
986	Forest Green-VY DK	69	27	66	25	59	23
989	Forest Green	81	31	77	30	69	27
995	Electric Blue-DK	73	28	69	27	62	24
3024	Brown Gray-VY LT	42	16	40	15	36	14
3032	Mocha Brown-MD	53	20	51	20	46	18
3041	Antique Violet-MD	15	5	15	5	13	5
3045	Yellow Beige-DK	20	7	19	7	17	6
3046	Yellow Beige-MD	14	5	13	5	12	4
3078	Golden Yellow-VY LT	11	4	11	4	9	3
3346	Hunter Green	52	20	50	19	45	17
3347	Yellow Green-MD	74	29	71	27	63	24
3348	Yellow Green-LT	23	9	22	8	20	7
3362	Pine Green-DK	89	35	85	33	76	29
3363	Pine Green-MD	10	3	9	3	8	3
3364	Pine Green	17	6	16	6	14	5
3721	Shell Pink-DK	3	1	3	1	2	1
3722	Shell Pink-MD	5	1	5	1	5	1
3750	Antique Blue-VY DK	88	34	84	33	75	29
3756	Baby Blue-UL VY LT	9	3	9	3	8	3
3766	Peacock Blue-LT	7	2	6	2	6	2
3778	Terra Cotta-LT	27	10	26	10	23	9
3782	Mocha Brown-LT	59	23	56	22	50	19
3787	Brown Gray-DK	63	24	60	23	54	21
3790	Beige Gray-UL DK	48	18	45	17	41	16
3799	Pewter Gray-VY DK	267	105	254	100	229	90
3802	Antique Mauve-VY DK	11	4	11	4	9	3
3809	Turquoise-VY DK	39	15	37	14	33	12
3819	Moss Green-LT	7	2	6	2	6	2
3823	Yellow-UL Pale	90	35	86	33	77	30
3843	Electric Blue	7	2	7	2	6	2
3844	Bright Turquoise-DK	338	133	322	126	289	113
3845	Bright Turquoise-MD	194	76	185	72	166	65
3860	Cocoa	20	7	19	7	17	6
3865	Winter White	113	44	107	42	97	38
Ecru	Ecru	43	16	41	16	37	14

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
209	Lavender-DK	54	20	45	17	23	8
210	Lavender-MD	121	47	101	39	50	20
211	Lavender-LT	225	88	188	74	94	37
221	Shell Pink-VY DK	14	5	12	5	6	2
300	Mahogany-VY DK	25	9	21	8	11	4
310	Black	2930	1152	2442	960	1221	480
311	Navy Blue-MD	76	29	63	24	32	12
317	Pewter Gray	94	36	78	30	39	15
318	Steel Gray-LT	13	4	11	3	5	2
320	Pistachio Green-MD	54	20	45	17	23	8
327	Violet-VY DK	13	4	11	3	5	2
333	Blue Violet-VY DK	25	9	21	8	11	4
340	Blue Violet-MD	20	7	17	6	8	3
368	Pistachio Green-LT	40	14	33	12	17	6
369	Pistachio Green-VY LT	45	16	38	14	19	7
414	Steel Gray-DK	45	16	38	14	19	7
435	Brown-VY LT	43	16	36	14	18	7
445	Lemon-LT	16	5	14	5	7	2
452	Shell Gray-MD	43	16	36	14	18	7
470	Avocado Green-LT	209	81	174	68	87	34
472	Avocado Green-UL LT	7	2	6	2	3	1
503	Blue Green-MD	52	20	44	17	22	8
562	Jade-MD	50	20	42	17	21	8
564	Jade-VY LT	45	16	38	14	19	7
580	Moss Green-DK	166	65	138	54	69	27
581	Moss Green	104	40	87	33	44	17
598	Turquoise-LT	16	5	14	5	7	2
632	Desert Sand-UL VY DK	25	9	21	8	11	4
645	Beaver Gray-VY DK	79	31	66	26	33	13
646	Beaver Gray-DK	112	43	93	36	47	18
647	Beaver Gray-MD	81	31	68	26	34	13
648	Beaver Gray-LT	97	38	81	32	41	16
677	Old Gold-VY LT	20	7	17	6	8	3
700	Christmas Green-BRT	31	11	26	9	13	5
701	Christmas Green-LT	43	16	36	14	18	7
704	Chartreuse-BRT	54	20	45	17	23	8
712	Cream	40	14	33	12	17	6
733	Olive Green-MD	22	7	18	6	9	3
739	Tan-UL VY LT	47	18	39	15	20	8
746	Off White	508	200	423	167	212	83
762	Pearl Gray-VY LT	9	2	8	2	4	1
772	Yellow Green-VY LT	27	9	23	8	11	4
783	Topaz-MD	20	7	17	6	8	3
793	Cornflower Blue-MD	31	11	26	9	13	5
801	Coffee Brown-DK	56	22	47	18	23	9
819	Baby Pink-LT	212	83	177	69	89	35
822	Beige Gray-LT	77	29	65	24	32	12
823	Navy Blue-DK	142	56	119	47	59	23
824	Blue-VY DK	193	76	161	63	80	32
828	Blue-UL VY LT	7	2	6	2	3	1
839	Beige Brown-DK	110	43	92	36	46	18
869	Hazelnut Brown-VY DK	36	13	30	11	15	5
895	Hunter Green-VY DK	499	196	416	164	208	82

904	Parrot Green-VY DK	468	184	390	153	195	77
905	Parrot Green-DK	430	169	359	141	179	71
911	Emerald Green-MD	23	9	20	8	10	4
912	Emerald Green-LT	58	22	48	18	24	9
913	Nile Green-MD	31	11	26	9	13	5
924	Gray Green--VY DK	182	70	152	59	76	29
926	Gray Green-MD	29	11	24	9	12	5
927	Gray Green-LT	41	16	35	14	17	7
935	Avocado Green-DK	547	214	456	179	228	89
938	Coffee Brown-UL DK	191	74	159	62	80	31
943	Bright Green-MD	29	11	24	9	12	5
950	Desert Sand-LT	41	16	35	14	17	7
959	Sea Green-MD	40	14	33	12	17	6
964	Sea Green-LT	7	2	6	2	3	1
972	Canary-DK	23	9	20	8	10	4
973	Canary-BRT	38	14	32	12	16	6
975	Golden Brown-DK	22	7	18	6	9	3
986	Forest Green-VY DK	106	41	89	35	44	17
989	Forest Green	124	49	104	41	52	20
995	Electric Blue-DK	112	43	93	36	47	18
3024	Brown Gray-VY LT	65	25	54	21	27	11
3032	Mocha Brown-MD	83	32	69	27	35	14
3041	Antique Violet-MD	23	9	20	8	10	4
3045	Yellow Beige-DK	31	11	26	9	13	5
3046	Yellow Beige-MD	22	7	18	6	9	3
3078	Golden Yellow-VY LT	16	5	14	5	7	2
3346	Hunter Green	81	31	68	26	34	13
3347	Yellow Green-MD	113	43	95	36	47	18
3348	Yellow Green-LT	36	13	30	11	15	5
3362	Pine Green-DK	137	52	114	44	57	22
3363	Pine Green-MD	14	5	12	5	6	2
3364	Pine Green	25	9	21	8	11	4
3721	Shell Pink-DK	4	2	3	2	2	1
3722	Shell Pink-MD	9	2	8	2	4	1
3750	Antique Blue-VY DK	135	52	113	44	56	22
3756	Baby Blue-UL VY LT	14	5	12	5	6	2
3766	Peacock Blue-LT	11	4	9	3	5	2
3778	Terra Cotta-LT	41	16	35	14	17	7
3782	Mocha Brown-LT	90	34	75	29	38	14
3787	Brown Gray-DK	97	38	81	32	41	16
3790	Beige Gray-UL DK	74	29	62	24	31	12
3799	Pewter Gray-VY DK	412	162	344	135	172	68
3802	Antique Mauve-VY DK	16	5	14	5	7	2
3809	Turquoise-VY DK	59	22	50	18	25	9
3819	Moss Green-LT	11	4	9	3	5	2
3823	Yellow-UL Pale	139	54	116	45	58	23
3843	Electric Blue	11	4	9	3	5	2
3844	Bright Turquoise-DK	520	203	434	170	217	85
3845	Bright Turquoise-MD	299	117	249	98	125	49
3860	Cocoa	31	11	26	9	13	5
3865	Winter White	175	68	146	57	73	29
Ecru	Ecru	67	25	56	21	28	11

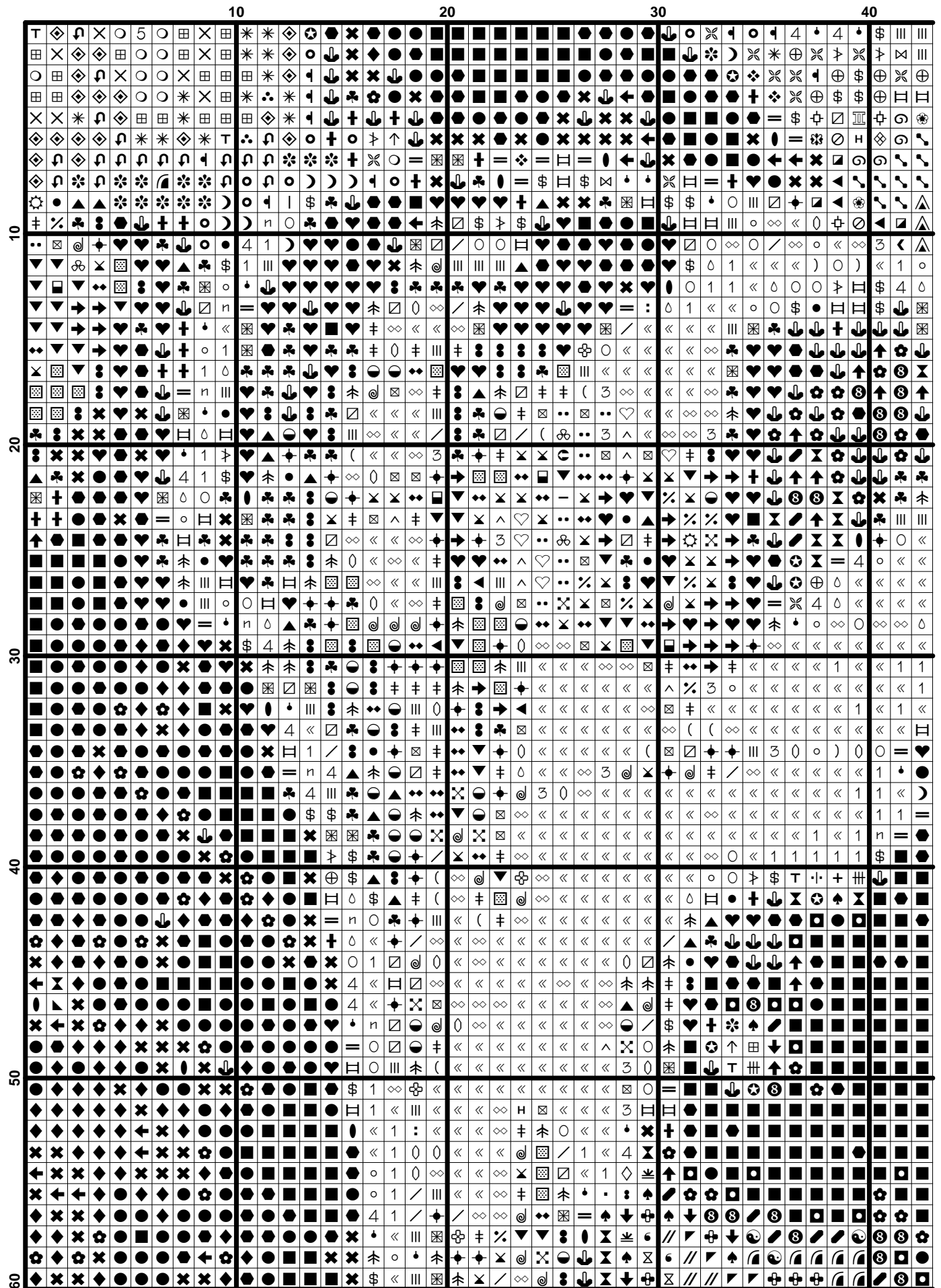
Extended thread usage table.

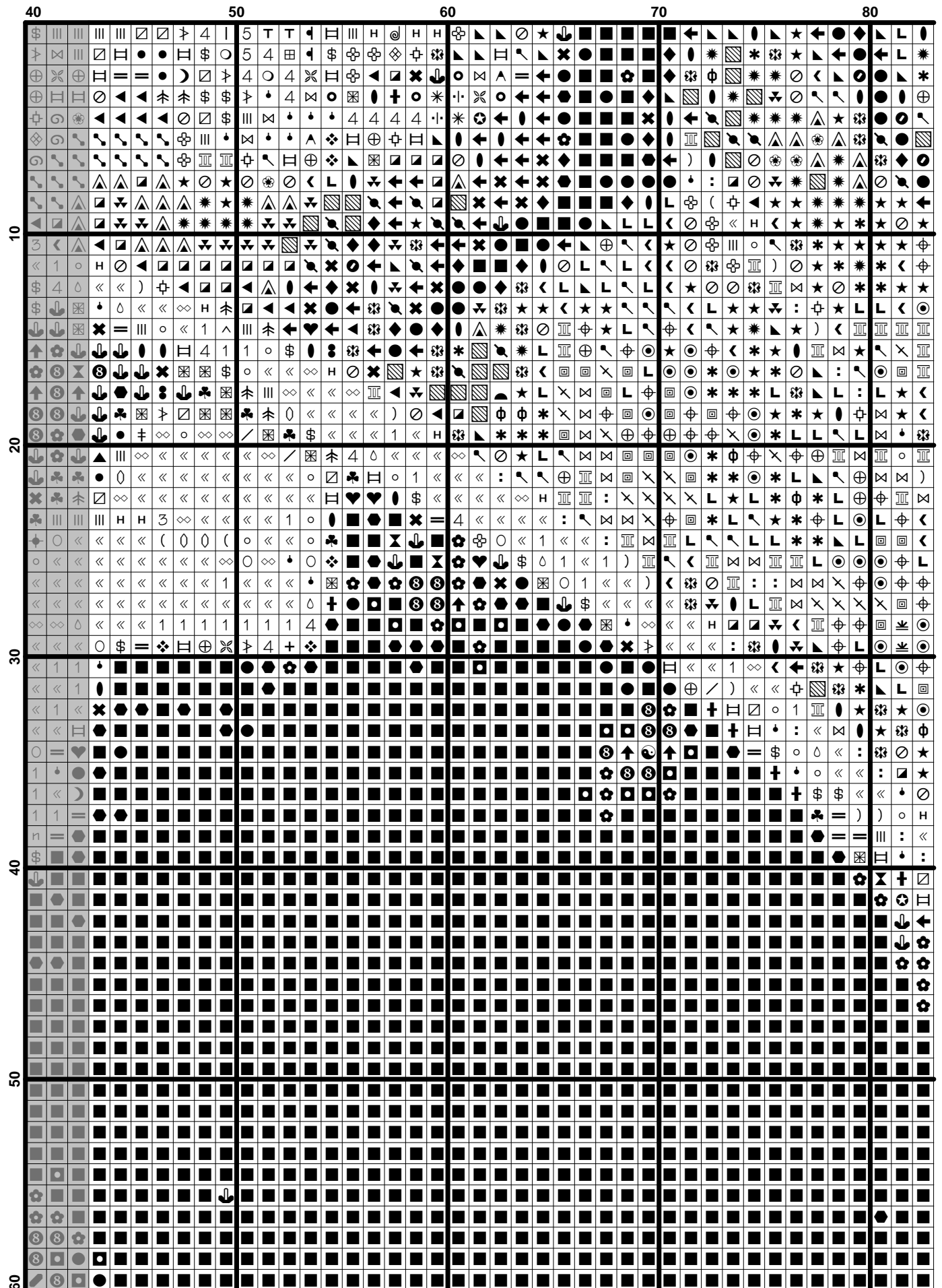
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
209	Lavender-DK	22	8	21	8	20	7
210	Lavender-MD	48	19	46	18	45	17
211	Lavender-LT	90	35	87	34	83	33
221	Shell Pink-VY DK	6	2	6	2	5	2
300	Mahogany-VY DK	10	4	10	3	9	3
310	Black	1172	461	1127	443	1085	427
311	Navy Blue-MD	30	12	29	11	28	11
317	Pewter Gray	37	14	36	14	35	13
318	Steel Gray-LT	5	1	5	1	5	1
320	Pistachio Green-MD	22	8	21	8	20	7
327	Violet-VY DK	5	1	5	1	5	1
333	Blue Violet-VY DK	10	4	10	3	9	3
340	Blue Violet-MD	8	3	8	3	7	3
368	Pistachio Green-LT	16	6	15	6	15	5
369	Pistachio Green-VY LT	18	6	17	6	17	6
414	Steel Gray-DK	18	6	17	6	17	6
435	Brown-VY LT	17	6	17	6	16	6
445	Lemon-LT	6	2	6	2	6	2
452	Shell Gray-MD	17	6	17	6	16	6
470	Avocado Green-LT	84	32	80	31	77	30
472	Avocado Green-UL LT	3	1	3	1	3	1
503	Blue Green-MD	21	8	20	8	19	7
562	Jade-MD	20	8	19	8	19	7
564	Jade-VY LT	18	6	17	6	17	6
580	Moss Green-DK	66	26	64	25	61	24
581	Moss Green	42	16	40	15	39	15
598	Turquoise-LT	6	2	6	2	6	2
632	Desert Sand-UL VY DK	10	4	10	3	9	3
645	Beaver Gray-VY DK	32	12	30	12	29	11
646	Beaver Gray-DK	45	17	43	17	41	16
647	Beaver Gray-MD	32	12	31	12	30	11
648	Beaver Gray-LT	39	15	37	15	36	14
677	Old Gold-VY LT	8	3	8	3	7	3
700	Christmas Green-BRT	12	4	12	4	11	4
701	Christmas Green-LT	17	6	17	6	16	6
704	Chartreuse-BRT	22	8	21	8	20	7
712	Cream	16	6	15	6	15	5
733	Olive Green-MD	9	3	8	3	8	3
739	Tan-UL VY LT	19	7	18	7	17	7
746	Off White	203	80	195	77	188	74
762	Pearl Gray-VY LT	4	1	3	1	3	1
772	Yellow Green-VY LT	11	4	10	3	10	3
783	Topaz-MD	8	3	8	3	7	3
793	Cornflower Blue-MD	12	4	12	4	11	4
801	Coffee Brown-DK	22	9	21	8	21	8
819	Baby Pink-LT	85	33	82	32	79	31
822	Beige Gray-LT	31	12	30	11	29	11
823	Navy Blue-DK	57	22	55	21	53	21
824	Blue-VY DK	77	30	74	29	71	28
828	Blue-UL VY LT	3	1	3	1	3	1
839	Beige Brown-DK	44	17	42	17	41	16
869	Hazelnut Brown-VY DK	14	5	14	5	13	5
895	Hunter Green-VY DK	199	78	192	75	185	73

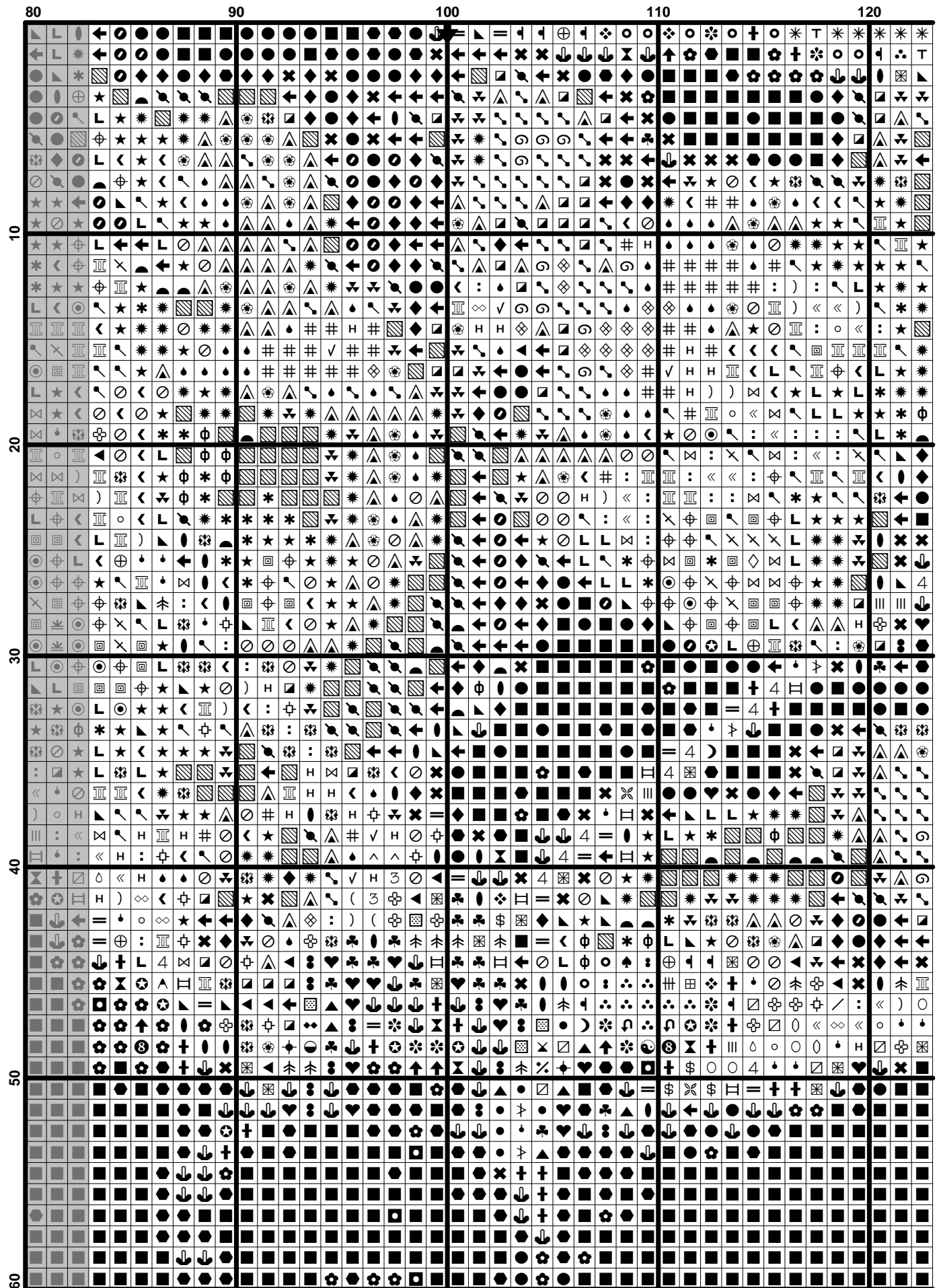
904	Parrot Green-VY DK	187	73	180	71	173	68
905	Parrot Green-DK	172	68	165	65	159	63
911	Emerald Green-MD	9	4	9	3	9	3
912	Emerald Green-LT	23	9	22	8	21	8
913	Nile Green-MD	12	4	12	4	11	4
924	Gray Green--VY DK	73	28	70	27	67	26
926	Gray Green-MD	12	4	11	4	11	4
927	Gray Green-LT	17	6	16	6	15	6
935	Avocado Green-DK	219	86	210	82	203	79
938	Coffee Brown-UL DK	76	30	73	28	71	27
943	Bright Green-MD	12	4	11	4	11	4
950	Desert Sand-LT	17	6	16	6	15	6
959	Sea Green-MD	16	6	15	6	15	5
964	Sea Green-LT	3	1	3	1	3	1
972	Canary-DK	9	4	9	3	9	3
973	Canary-BRT	15	6	15	6	14	5
975	Golden Brown-DK	9	3	8	3	8	3
986	Forest Green-VY DK	42	17	41	16	39	15
989	Forest Green	50	19	48	19	46	18
995	Electric Blue-DK	45	17	43	17	41	16
3024	Brown Gray-VY LT	26	10	25	10	24	9
3032	Mocha Brown-MD	33	13	32	12	31	12
3041	Antique Violet-MD	9	4	9	3	9	3
3045	Yellow Beige-DK	12	4	12	4	11	4
3046	Yellow Beige-MD	9	3	8	3	8	3
3078	Golden Yellow-VY LT	6	2	6	2	6	2
3346	Hunter Green	32	12	31	12	30	11
3347	Yellow Green-MD	45	17	44	17	42	16
3348	Yellow Green-LT	14	5	14	5	13	5
3362	Pine Green-DK	55	21	53	20	51	19
3363	Pine Green-MD	6	2	6	2	5	2
3364	Pine Green	10	4	10	3	9	3
3721	Shell Pink-DK	1	1	1	1	1	1
3722	Shell Pink-MD	4	1	3	1	3	1
3750	Antique Blue-VY DK	54	21	52	20	50	19
3756	Baby Blue-UL VY LT	6	2	6	2	5	2
3766	Peacock Blue-LT	4	1	4	1	4	1
3778	Terra Cotta-LT	17	6	16	6	15	6
3782	Mocha Brown-LT	36	14	35	13	33	13
3787	Brown Gray-DK	39	15	37	15	36	14
3790	Beige Gray-UL DK	30	12	28	11	27	11
3799	Pewter Gray-VY DK	165	65	159	62	153	60
3802	Antique Mauve-VY DK	6	2	6	2	6	2
3809	Turquoise-VY DK	24	9	23	8	22	8
3819	Moss Green-LT	4	1	4	1	4	1
3823	Yellow-UL Pale	55	22	53	21	51	20
3843	Electric Blue	4	1	4	1	4	1
3844	Bright Turquoise-DK	208	81	200	78	193	75
3845	Bright Turquoise-MD	120	47	115	45	111	43
3860	Cocoa	12	4	12	4	11	4
3865	Winter White	70	27	67	26	65	25
Ecru	Ecru	27	10	26	10	25	9

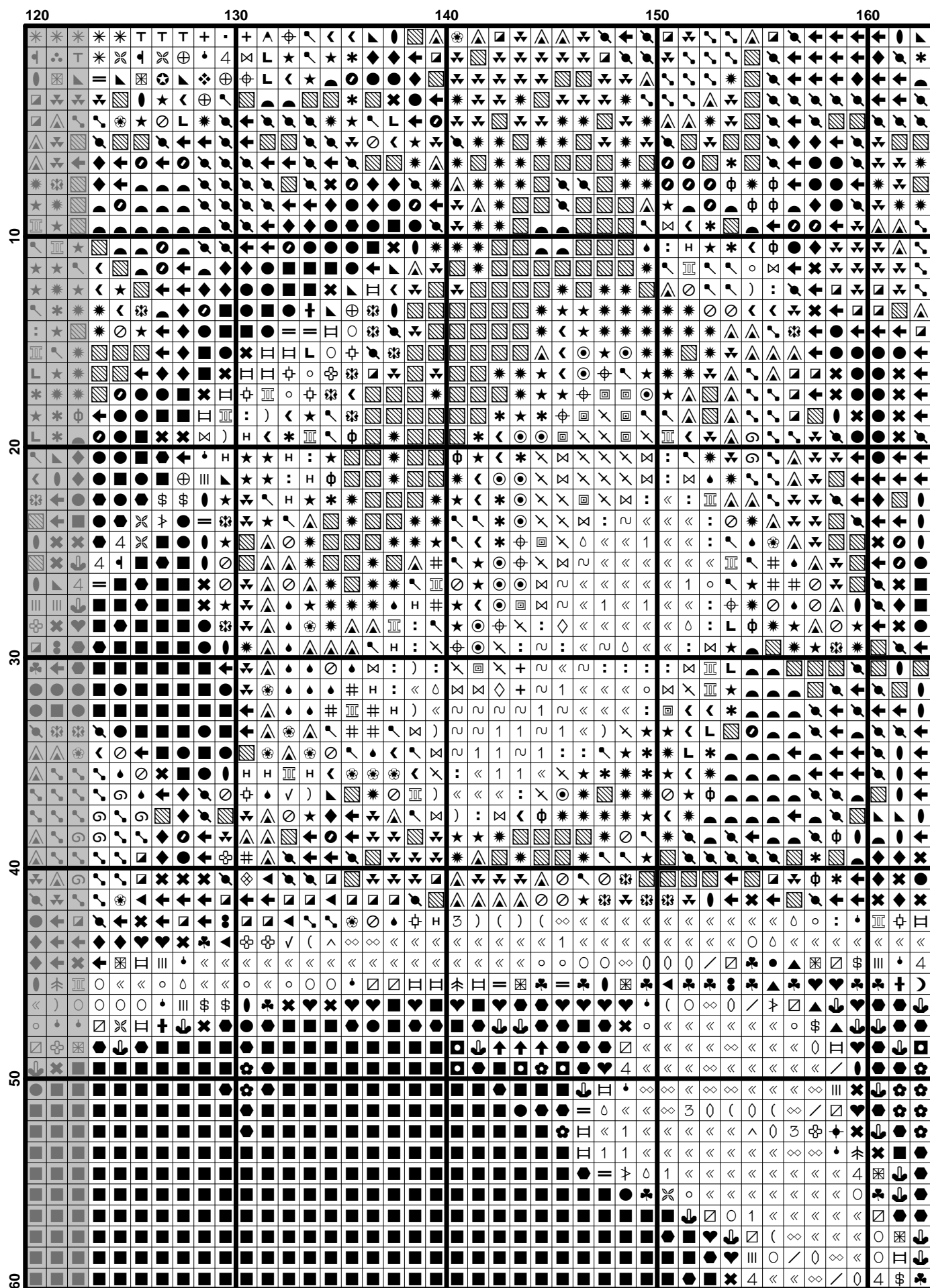
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
209	Lavender-DK	19	7	18	7	17	6
210	Lavender-MD	43	17	40	16	38	15
211	Lavender-LT	80	32	75	29	70	28
221	Shell Pink-VY DK	5	2	5	2	5	2
300	Mahogany-VY DK	9	3	8	3	8	3
310	Black	1047	411	977	384	916	360
311	Navy Blue-MD	27	10	25	10	24	9
317	Pewter Gray	33	13	31	12	29	11
318	Steel Gray-LT	5	1	4	1	4	1
320	Pistachio Green-MD	19	7	18	7	17	6
327	Violet-VY DK	5	1	4	1	4	1
333	Blue Violet-VY DK	9	3	8	3	8	3
340	Blue Violet-MD	7	3	7	2	6	2
368	Pistachio Green-LT	14	5	13	5	12	5
369	Pistachio Green-VY LT	16	6	15	5	14	5
414	Steel Gray-DK	16	6	15	5	14	5
435	Brown-VY LT	15	6	14	5	14	5
445	Lemon-LT	6	2	5	2	5	2
452	Shell Gray-MD	15	6	14	5	14	5
470	Avocado Green-LT	75	29	70	27	65	25
472	Avocado Green-UL LT	3	1	2	1	2	1
503	Blue Green-MD	19	7	17	7	16	6
562	Jade-MD	18	7	17	7	16	6
564	Jade-VY LT	16	6	15	5	14	5
580	Moss Green-DK	59	23	55	22	52	20
581	Moss Green	37	14	35	13	33	12
598	Turquoise-LT	6	2	5	2	5	2
632	Desert Sand-UL VY DK	9	3	8	3	8	3
645	Beaver Gray-VY DK	28	11	26	10	25	10
646	Beaver Gray-DK	40	15	37	14	35	14
647	Beaver Gray-MD	29	11	27	10	25	10
648	Beaver Gray-LT	35	14	32	13	30	12
677	Old Gold-VY LT	7	3	7	2	6	2
700	Christmas Green-BRT	11	4	10	4	10	3
701	Christmas Green-LT	15	6	14	5	14	5
704	Chartreuse-BRT	19	7	18	7	17	6
712	Cream	14	5	13	5	12	5
733	Olive Green-MD	8	3	7	2	7	2
739	Tan-UL VY LT	17	6	16	6	15	6
746	Off White	181	71	169	67	159	62
762	Pearl Gray-VY LT	3	1	3	1	3	1
772	Yellow Green-VY LT	10	3	9	3	8	3
783	Topaz-MD	7	3	7	2	6	2
793	Cornflower Blue-MD	11	4	10	4	10	3
801	Coffee Brown-DK	20	8	19	7	17	7
819	Baby Pink-LT	76	30	71	28	66	26
822	Beige Gray-LT	28	10	26	10	24	9
823	Navy Blue-DK	51	20	47	19	44	17
824	Blue-VY DK	69	27	64	25	60	24
828	Blue-UL VY LT	3	1	2	1	2	1
839	Beige Brown-DK	39	15	37	14	34	14
869	Hazelnut Brown-VY DK	13	5	12	4	11	4
895	Hunter Green-VY DK	178	70	166	65	156	61

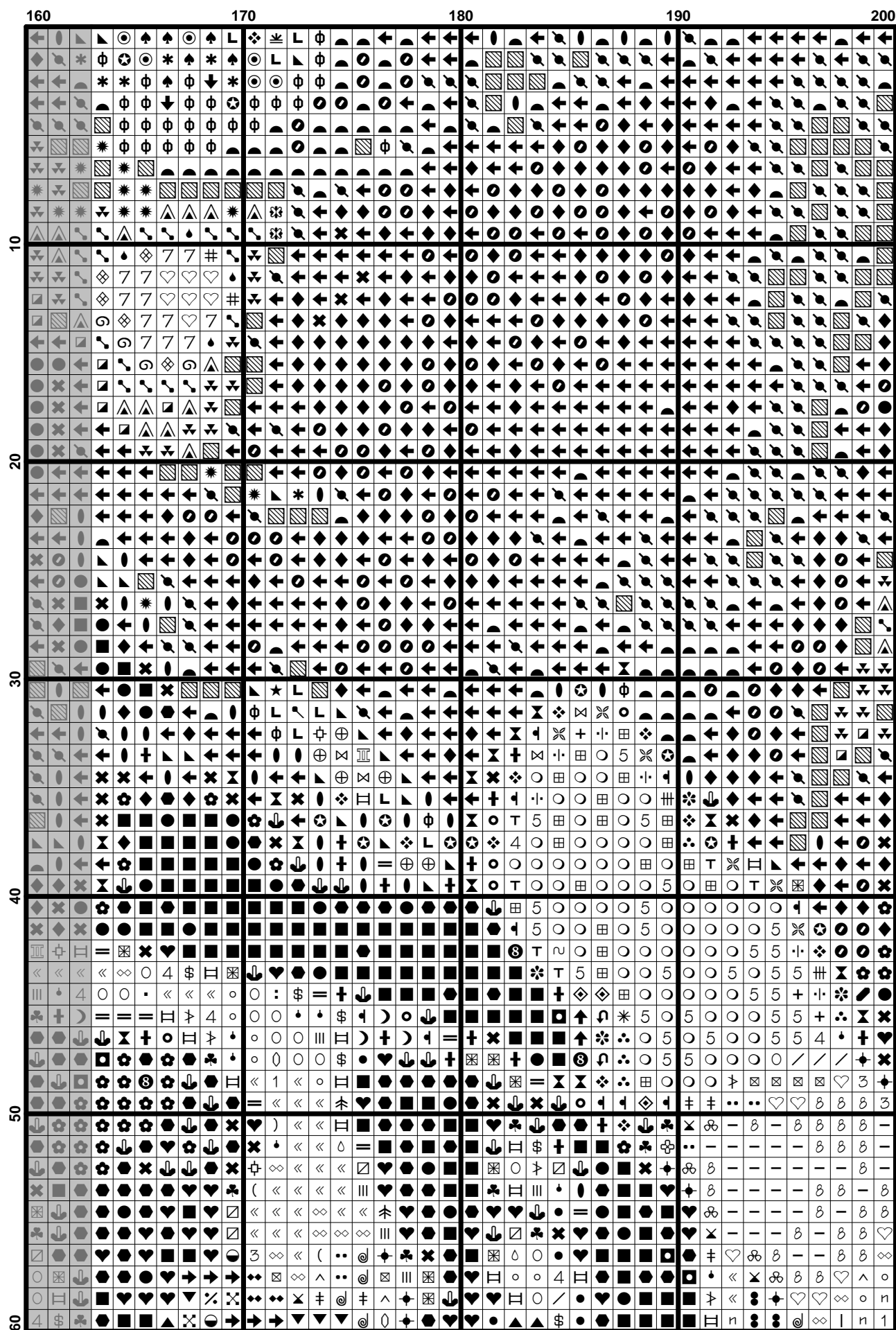
904	Parrot Green-VY DK	167	66	156	61	146	57
905	Parrot Green-DK	154	60	143	56	134	53
911	Emerald Green-MD	8	3	8	3	7	3
912	Emerald Green-LT	21	8	19	7	18	7
913	Nile Green-MD	11	4	10	4	10	3
924	Gray Green--VY DK	65	25	61	23	57	22
926	Gray Green-MD	10	4	10	4	9	3
927	Gray Green-LT	15	6	14	5	13	5
935	Avocado Green-DK	195	77	182	71	171	67
938	Coffee Brown-UL DK	68	26	64	25	60	23
943	Bright Green-MD	10	4	10	4	9	3
950	Desert Sand-LT	15	6	14	5	13	5
959	Sea Green-MD	14	5	13	5	12	5
964	Sea Green-LT	3	1	2	1	2	1
972	Canary-DK	8	3	8	3	7	3
973	Canary-BRT	14	5	13	5	12	5
975	Golden Brown-DK	8	3	7	2	7	2
986	Forest Green-VY DK	38	15	35	14	33	13
989	Forest Green	44	17	41	16	39	15
995	Electric Blue-DK	40	15	37	14	35	14
3024	Brown Gray-VY LT	23	9	22	8	20	8
3032	Mocha Brown-MD	30	12	28	11	26	10
3041	Antique Violet-MD	8	3	8	3	7	3
3045	Yellow Beige-DK	11	4	10	4	10	3
3046	Yellow Beige-MD	8	3	7	2	7	2
3078	Golden Yellow-VY LT	6	2	5	2	5	2
3346	Hunter Green	29	11	27	10	25	10
3347	Yellow Green-MD	41	15	38	14	35	14
3348	Yellow Green-LT	13	5	12	4	11	4
3362	Pine Green-DK	49	19	46	17	43	16
3363	Pine Green-MD	5	2	5	2	5	2
3364	Pine Green	9	3	8	3	8	3
3721	Shell Pink-DK	1	1	1	1	1	1
3722	Shell Pink-MD	3	1	3	1	3	1
3750	Antique Blue-VY DK	48	19	45	17	42	16
3756	Baby Blue-UL VY LT	5	2	5	2	5	2
3766	Peacock Blue-LT	4	1	4	1	3	1
3778	Terra Cotta-LT	15	6	14	5	13	5
3782	Mocha Brown-LT	32	12	30	11	28	11
3787	Brown Gray-DK	35	14	32	13	30	12
3790	Beige Gray-UL DK	26	10	25	10	23	9
3799	Pewter Gray-VY DK	147	58	137	54	129	51
3802	Antique Mauve-VY DK	6	2	5	2	5	2
3809	Turquoise-VY DK	21	8	20	7	19	7
3819	Moss Green-LT	4	1	4	1	3	1
3823	Yellow-UL Pale	50	19	46	18	43	17
3843	Electric Blue	4	1	4	1	3	1
3844	Bright Turquoise-DK	186	73	173	68	163	64
3845	Bright Turquoise-MD	107	42	100	39	93	37
3860	Cocoa	11	4	10	4	10	3
3865	Winter White	62	24	58	23	55	21
Ecru	Ecru	24	9	22	8	21	8





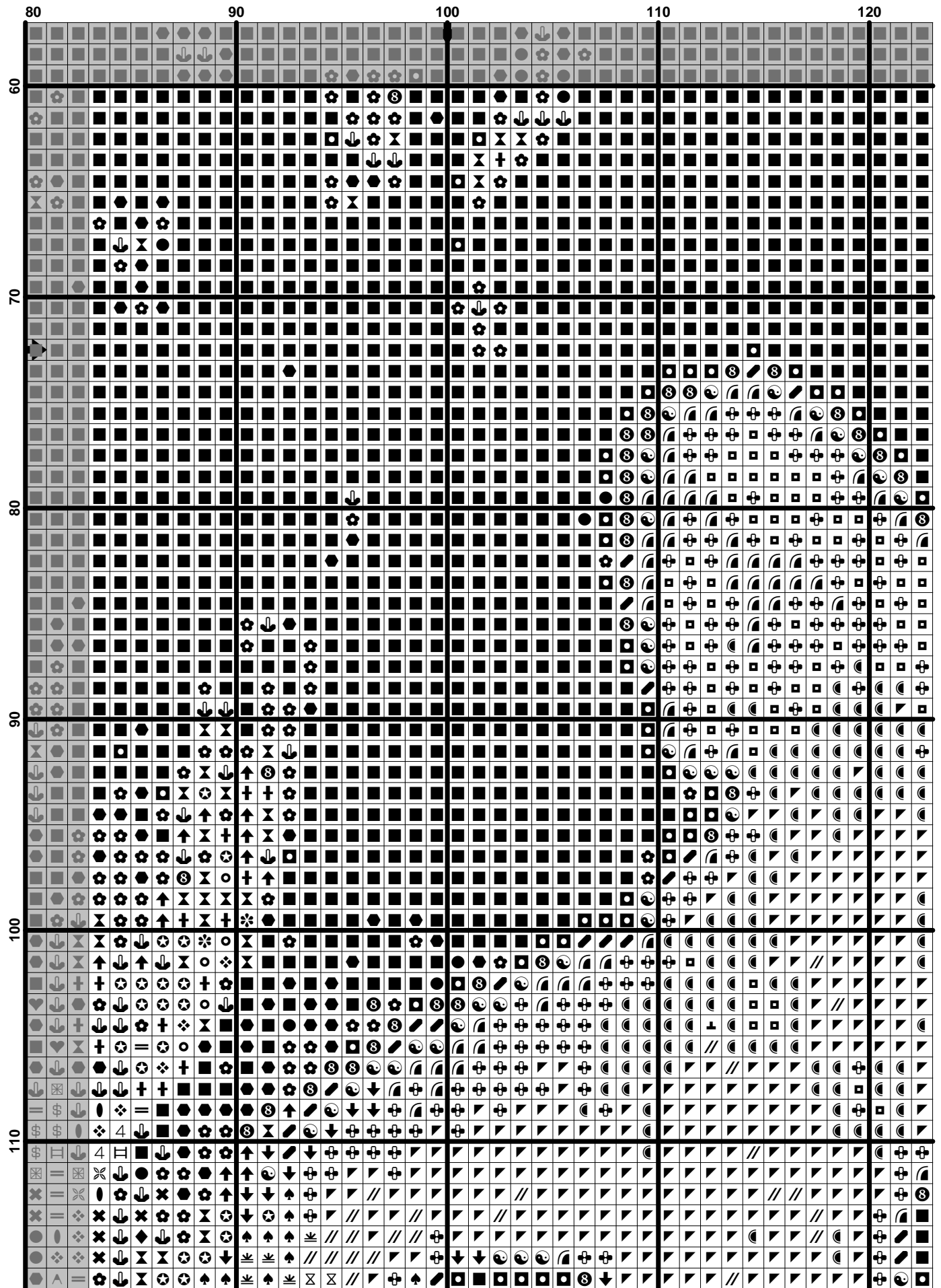


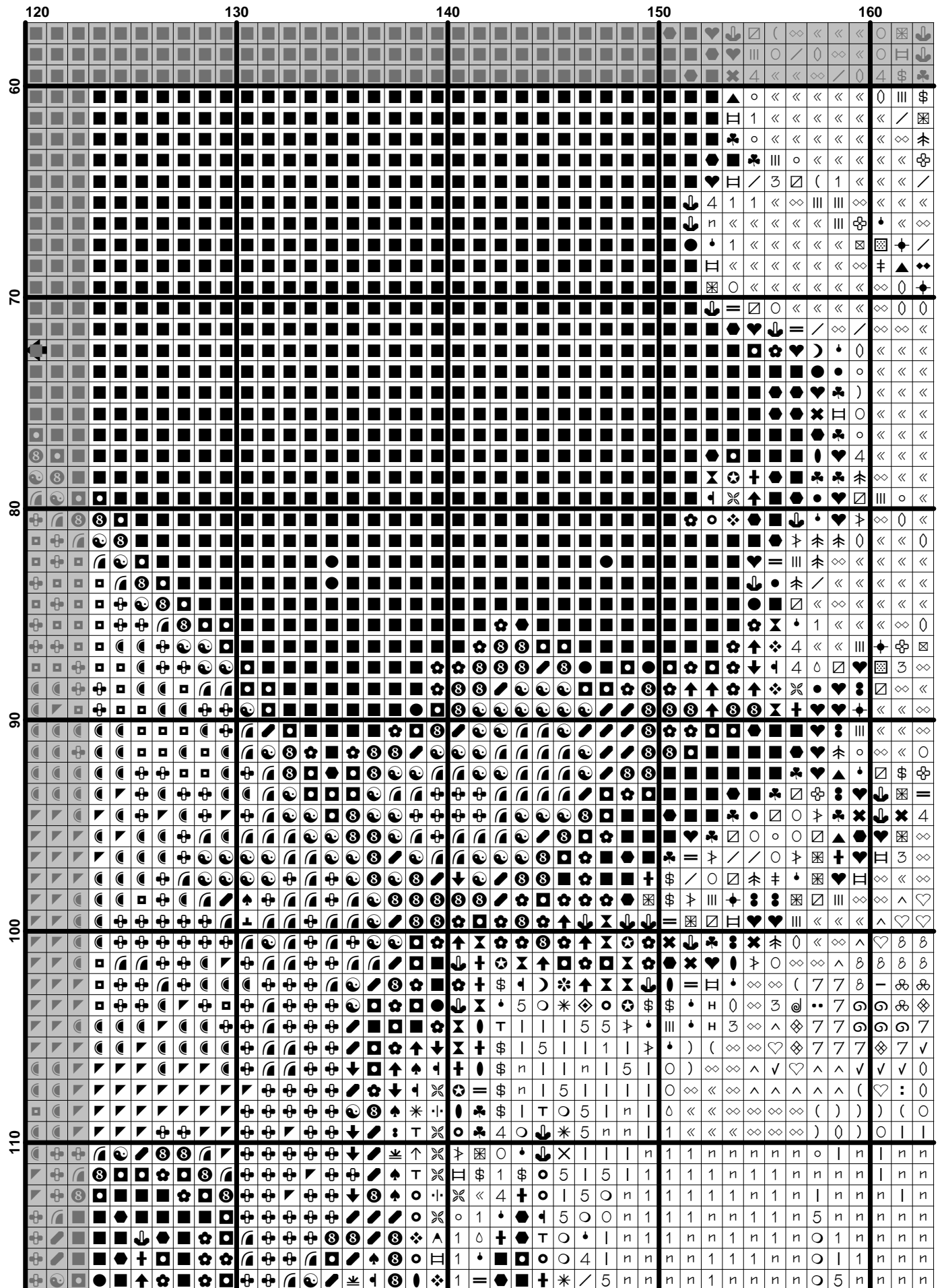




$$(11) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}, \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{y}} \right) = \frac{\partial L}{\partial y}, \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{z}} \right) = \frac{\partial L}{\partial z}$$

[illegible]





	160	170	180	190	200
60					
70					
80					
90					
100					
110					

[illegible]

[illegible]

