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1291 Yellow and Pink 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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Yellow and Pink Roses

Stitch Count	
Horizontal:	298
Vertical:	423

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:	54	21.21	77	30.21	48	18.56	68	26.43	42	16.5	60	23.5
Including Margins:	70	28	93	37	64	25	84	33	58	23	76	30
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	75	29.69	107	42.29	63	24.74	89	35.24	31	12.37	44	17.62
Including Margins:	91	36	123	49	79	31	105	42	47	19	60	24
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	30	11.87	43	16.91	29	11.42	41	16.26	28	10.99	39	15.66
Including Margins:	46	18	59	23	45	18	57	23	44	17	55	22
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	27	10.6	38	15.1	25	9.89	35	14.09	23	9.27	33	13.21
Including Margins:	43	17	54	22	41	16	51	21	39	16	49	20

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
1	1	White 1
●	221	Shell Pink-VY DK
III	224	Shell Pink-VY LT
√	307	Lemon
6	353	Peach
☾	356	Terra Cotta-MD
+	369	Pistachio Green-VY LT
↑	444	Lemon-DK
✱	470	Avocado Green-LT
○	472	Avocado Green-UL LT
➔	501	Blue Green-DK
✱	522	Fern Green
☒	523	Fern Green-LT
☾	524	Fern Green-VY LT
/	543	Beige Brown-UL VY LT
☒	611	Drab Brown
•	613	Drab Brown-VY LT
←	632	Desert Sand-UL VY DK
✓	644	Beige Gray-MD
⊕	647	Beaver Gray-MD
•	677	Old Gold-VY LT
•	704	Chartreuse-BRT
•	712	Cream
::	725	Topaz
e	726	Topaz-LT
♡	727	Topaz-VY LT
•	730	Olive Green-VY DK
☾	732	Olive Green
✂	733	Olive Green-MD
T	734	Olive Green-LT
β	739	Tan-UL VY LT
γ	742	Tangerine-LT
)	744	Yellow-Pale
n	746	Off White
♂	760	Salmon
⊕	762	Pearl Gray-VY LT
♥	801	Coffee Brown-DK
◆	816	Garnet
↓	830	Golden Olive-DK
❖	832	Golden Olive
⊗	833	Golden Olive-LT
●	838	Beige Brown-VY DK
☾	839	Beige Brown-DK
♂	892	Carnation-MD
▲	905	Parrot Green-DK

×	907	Parrot Green-LT
⊕	927	Gray Green-LT
III	928	Gray Green-VY LT
■	934	Black Avocado Green
●	935	Avocado Green-DK
✂	937	Avocado Green-MD
:	963	Dusty Rose-UL VY LT
3	973	Canary-BRT
☾	975	Golden Brown-DK
▲	976	Golden Brown-MD
✱	3012	Khaki Green-MD
☾	3021	Brown Gray-VY DK
•	3024	Brown Gray-VY LT
☒	3031	Mocha Brown-VY DK
✱	3045	Yellow Beige-DK
⊕	3046	Yellow Beige-MD
✱	3052	Green Gray-MD
	3078	Golden Yellow-VY LT
III	3326	Rose-LT
◀	3328	Salmon-DK
⊕	3346	Hunter Green
☾	3348	Yellow Green-LT
✱	3364	Pine Green
✂	3706	Melon-MD
☒	3708	Melon-LT
♣	3712	Salmon-MD
5	3753	Antique Blue-UL VY LT
∞	3756	Baby Blue-UL VY LT
☒	3782	Mocha Brown-LT
♣	3787	Brown Gray-DK
♣	3819	Moss Green-LT
✂	3820	Straw-DK
◇	3822	Straw-LT
◦	3823	Yellow-UL Pale
≡	3824	Apricot-LT
☾	3826	Golden Brown
◦	3829	Old Gold-VY DK
✱	3830	Terra Cotta-MD
☒	3832	Raspberry-MD
☒	3833	Raspberry-LT
♣	3852	Straw-VY DK
H	3853	Autumn Gold-DK
★	3859	Rosewood-LT
▼	3862	Mocha Beige-DK
○	3866	Mocha Brown-UL VY LT
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Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.

Symbol	DMC1	Name1	DMC2	Name2
	611	Drab Brown	3862	Mocha Beige-DK
	420	Hazelnut Brown-DK	975	Golden Brown-DK
	905	Parrot Green-DK	907	Parrot Green-LT
	3820	Straw-DK	3853	Autumn Gold-DK
	3052	Green Gray-MD	3787	Brown Gray-DK
	356	Terra Cotta-MD	3045	Yellow Beige-DK
	524	Fern Green-VY LT	369	Pistachio Green-VY LT
	307	Lemon	3820	Straw-DK
	420	Hazelnut Brown-DK	3045	Yellow Beige-DK
	704	Chartreuse-BRT	733	Olive Green-MD
	3346	Hunter Green	3364	Pine Green
	3822	Straw-LT	472	Avocado Green-UL LT
	611	Drab Brown	730	Olive Green-VY DK
	444	Lemon-DK	907	Parrot Green-LT
	1	White 1	3756	Baby Blue-UL VY LT
	444	Lemon-DK	726	Topaz-LT
	726	Topaz-LT	907	Parrot Green-LT
	444	Lemon-DK	744	Yellow-Pale
	963	Dusty Rose-UL VY LT	3326	Rose-LT
	3824	Apricot-LT	760	Salmon
	725	Topaz	760	Salmon
	725	Topaz	3712	Salmon-MD
	3859	Rosewood-LT	3328	Salmon-DK
	760	Salmon	3859	Rosewood-LT
	3328	Salmon-DK	3712	Salmon-MD
	3830	Terra Cotta-MD	892	Carnation-MD
	816	Garnet	3830	Terra Cotta-MD
	353	Peach	3708	Melon-LT
	778	Antique Mauve-VY LT	353	Peach
	3328	Salmon-DK	892	Carnation-MD
	3706	Melon-MD	3712	Salmon-MD
	3706	Melon-MD	892	Carnation-MD
	3824	Apricot-LT	3706	Melon-MD
	470	Avocado Green-LT	905	Parrot Green-DK
	3346	Hunter Green	937	Avocado Green-MD
	3346	Hunter Green	501	Blue Green-DK
	522	Fern Green	3346	Hunter Green
	501	Blue Green-DK	522	Fern Green
	3346	Hunter Green	704	Chartreuse-BRT
	935	Avocado Green-DK	937	Avocado Green-MD
	746	Off White	762	Pearl Gray-VY LT
	907	Parrot Green-LT	470	Avocado Green-LT
	677	Old Gold-VY LT	369	Pistachio Green-VY LT
	816	Garnet	892	Carnation-MD
	356	Terra Cotta-MD	632	Desert Sand-UL VY DK
	543	Beige Brown-UL VY LT	369	Pistachio Green-VY LT
	905	Parrot Green-DK	937	Avocado Green-MD
	704	Chartreuse-BRT	905	Parrot Green-DK
	760	Salmon	3782	Mocha Brown-LT
	744	Yellow-Pale	3824	Apricot-LT
	744	Yellow-Pale	907	Parrot Green-LT
	782	Topaz-DK	3852	Straw-VY DK
	833	Golden Olive-LT	976	Golden Brown-MD

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◇	725	Topaz	833	Golden Olive-LT
♠	356	Terra Cotta-MD	420	Hazelnut Brown-DK
=	976	Golden Brown-MD	3826	Golden Brown
⊕	742	Tangerine-LT	3853	Autumn Gold-DK
⊕	3852	Straw-VY DK	3853	Autumn Gold-DK
—	3866	Mocha Brown-UL VY LT	524	Fern Green-VY LT
◇	3012	Khaki Green-MD	3045	Yellow Beige-DK
‡	444	Lemon-DK	3852	Straw-VY DK
~	746	Off White	744	Yellow-Pale
⌵	3820	Straw-DK	725	Topaz
↑	730	Olive Green-VY DK	801	Coffee Brown-DK
⑧	801	Coffee Brown-DK	3031	Mocha Brown-VY DK
g	3024	Brown Gray-VY LT	3866	Mocha Brown-UL VY LT
●	832	Golden Olive	3826	Golden Brown
✕	501	Blue Green-DK	3021	Brown 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	
1	White 1	16709	6578	15914	6265	14322	5638
221	Shell Pink-VY DK	18	7	17	6	15	5
224	Shell Pink-VY LT	46	18	44	17	39	15
307	Lemon	241	94	230	90	207	81
353	Peach	192	75	183	72	165	64
356	Terra Cotta-MD	135	53	128	50	115	45
369	Pistachio Green-VY LT	261	102	249	98	224	88
420	Hazelnut Brown-DK	189	74	180	70	162	63
444	Lemon-DK	316	124	301	118	271	106
470	Avocado Green-LT	170	66	161	63	145	57
472	Avocado Green-UL LT	98	38	93	36	84	33
501	Blue Green-DK	180	70	171	67	154	60
522	Fern Green	212	83	202	79	182	71
523	Fern Green-LT	109	42	104	40	93	36
524	Fern Green-VY LT	336	132	320	125	288	113
543	Beige Brown-UL VY LT	131	51	124	48	112	44
611	Drab Brown	355	139	338	133	304	119
613	Drab Brown-VY LT	194	76	184	72	166	65
632	Desert Sand-UL VY DK	107	42	102	40	92	36
644	Beige Gray-MD	92	36	88	34	79	31
647	Beaver Gray-MD	112	44	106	41	96	37
677	Old Gold-VY LT	141	55	135	53	121	47
704	Chartreuse-BRT	122	48	116	45	105	41
712	Cream	112	44	107	42	96	37
725	Topaz	192	75	183	72	165	64
726	Topaz-LT	616	242	586	230	528	207
727	Topaz-VY LT	133	52	127	50	114	44
730	Olive Green-VY DK	452	177	430	169	387	152
732	Olive Green	277	109	263	103	237	93
733	Olive Green-MD	192	75	183	72	164	64
734	Olive Green-LT	179	70	170	66	153	60
739	Tan-UL VY LT	79	31	75	29	67	26
742	Tangerine-LT	173	68	164	64	148	58
744	Yellow-Pale	406	159	387	152	348	137
746	Off White	428	168	408	160	367	144
760	Salmon	291	114	277	109	250	98
762	Pearl Gray-VY LT	287	112	273	107	246	96
778	Antique Mauve-VY LT	24	9	22	8	20	7
782	Topaz-DK	76	29	72	28	65	25
801	Coffee Brown-DK	360	141	343	135	308	121
816	Garnet	116	45	110	43	99	38
830	Golden Olive-DK	233	91	222	87	200	78
832	Golden Olive	206	81	196	77	176	69
833	Golden Olive-LT	183	72	174	68	157	61
838	Beige Brown-VY DK	51	20	48	18	43	16
839	Beige Brown-DK	169	66	161	63	145	57
892	Carnation-MD	125	49	119	46	107	42
905	Parrot Green-DK	147	57	140	55	126	49
907	Parrot Green-LT	174	68	165	64	149	58
927	Gray Green-LT	60	23	58	22	52	20
928	Gray Green-VY LT	133	52	127	50	114	44
934	Black Avocado Green	20	7	19	7	17	6
935	Avocado Green-DK	312	122	297	116	268	105

937	Avocado Green-MD	440	173	419	164	377	148
963	Dusty Rose-UL VY LT	133	52	127	50	114	44
973	Canary-BRT	514	202	490	192	441	173
975	Golden Brown-DK	243	95	231	90	208	81
976	Golden Brown-MD	223	87	213	83	191	75
3012	Khaki Green-MD	406	159	387	152	348	137
3021	Brown Gray-VY DK	296	116	282	111	254	100
3024	Brown Gray-VY LT	259	101	246	96	222	87
3031	Mocha Brown-VY DK	290	114	276	108	248	97
3045	Yellow Beige-DK	386	151	368	144	331	130
3046	Yellow Beige-MD	190	74	181	71	163	64
3052	Green Gray-MD	186	73	178	70	160	62
3078	Golden Yellow-VY LT	94	37	90	35	81	31
3326	Rose-LT	114	44	108	42	97	38
3328	Salmon-DK	117	46	112	44	101	39
3346	Hunter Green	340	133	324	127	292	114
3348	Yellow Green-LT	176	69	167	65	150	59
3364	Pine Green	242	95	231	90	208	81
3706	Melon-MD	193	75	183	72	165	64
3708	Melon-LT	119	46	114	44	102	40
3712	Salmon-MD	243	95	231	90	208	81
3753	Antique Blue-UL VY LT	46	18	44	17	40	15
3756	Baby Blue-UL VY LT	439	172	418	164	376	148
3782	Mocha Brown-LT	183	72	174	68	157	61
3787	Brown Gray-DK	208	81	199	78	179	70
3819	Moss Green-LT	84	33	80	31	72	28
3820	Straw-DK	245	96	234	92	210	82
3822	Straw-LT	127	50	121	47	109	42
3823	Yellow-UL Pale	141	55	135	53	121	47
3824	Apricot-LT	191	75	182	71	164	64
3826	Golden Brown	213	83	203	79	183	72
3829	Old Gold-VY DK	155	61	148	58	133	52
3830	Terra Cotta-MD	167	65	159	62	143	56
3832	Raspberry-MD	33	12	31	12	28	11
3833	Raspberry-LT	52	20	49	19	44	17
3852	Straw-VY DK	360	141	343	135	309	121
3853	Autumn Gold-DK	231	90	220	86	198	77
3859	Rosewood-LT	85	33	81	31	73	28
3862	Mocha Beige-DK	122	48	116	45	105	41
3866	Mocha Brown-UL VY LT	435	171	415	163	373	146
Ecru	Ecru	130	51	124	48	112	44

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
1	White 1	25780	10148	21483	8457	10742	4229
221	Shell Pink-VY DK	27	9	23	8	11	4
224	Shell Pink-VY LT	70	27	59	23	29	11
307	Lemon	373	146	311	122	155	61
353	Peach	297	115	248	96	124	48
356	Terra Cotta-MD	207	81	173	68	86	34
369	Pistachio Green-VY LT	403	158	336	132	168	66
420	Hazelnut Brown-DK	292	113	243	95	122	47
444	Lemon-DK	488	191	407	159	203	80
470	Avocado Green-LT	261	103	218	86	109	43
472	Avocado Green-UL LT	151	59	126	50	63	25

501	Blue Green-DK	277	108	231	90	116	45
522	Fern Green	328	128	273	107	137	53
523	Fern Green-LT	167	65	140	54	70	27
524	Fern Green-VY LT	518	203	432	170	216	85
543	Beige Brown-UL VY LT	202	79	168	66	84	33
611	Drab Brown	547	214	456	179	228	89
613	Drab Brown-VY LT	299	117	249	98	125	49
632	Desert Sand-UL VY DK	166	65	138	54	69	27
644	Beige Gray-MD	142	56	119	47	59	23
647	Beaver Gray-MD	173	67	144	56	72	28
677	Old Gold-VY LT	218	85	182	71	91	35
704	Chartreuse-BRT	189	74	158	62	79	31
712	Cream	173	67	144	56	72	28
725	Topaz	297	115	248	96	124	48
726	Topaz-LT	950	373	792	311	396	155
727	Topaz-VY LT	205	79	171	66	86	33
730	Olive Green-VY DK	697	274	581	228	290	114
732	Olive Green	427	167	356	140	178	70
733	Olive Green-MD	295	115	246	96	123	48
734	Olive Green-LT	275	108	230	90	115	45
739	Tan-UL VY LT	121	47	101	39	50	20
742	Tangerine-LT	266	104	222	87	111	44
744	Yellow-Pale	626	247	522	206	261	103
746	Off White	661	259	551	216	275	108
760	Salmon	450	176	375	147	188	74
762	Pearl Gray-VY LT	443	173	369	144	185	72
778	Antique Mauve-VY LT	36	13	30	11	15	5
782	Topaz-DK	117	45	98	38	49	19
801	Coffee Brown-DK	554	218	462	182	231	91
816	Garnet	178	68	149	57	74	29
830	Golden Olive-DK	360	140	300	117	150	59
832	Golden Olive	317	124	264	104	132	52
833	Golden Olive-LT	283	110	236	92	118	46
838	Beige Brown-VY DK	77	29	65	24	32	12
839	Beige Brown-DK	261	103	218	86	109	43
892	Carnation-MD	193	76	161	63	80	32
905	Parrot Green-DK	227	88	189	74	95	37
907	Parrot Green-LT	268	104	224	87	112	44
927	Gray Green-LT	94	36	78	30	39	15
928	Gray Green-VY LT	205	79	171	66	86	33
934	Black Avocado Green	31	11	26	9	13	5
935	Avocado Green-DK	482	189	402	158	201	79
937	Avocado Green-MD	679	266	566	222	283	111
963	Dusty Rose-UL VY LT	205	79	171	66	86	33
973	Canary-BRT	794	311	662	260	331	130
975	Golden Brown-DK	374	146	312	122	156	61
976	Golden Brown-MD	344	135	287	113	143	56
3012	Khaki Green-MD	626	247	522	206	261	103
3021	Brown Gray-VY DK	457	180	381	150	191	75
3024	Brown Gray-VY LT	400	157	333	131	167	65
3031	Mocha Brown-VY DK	446	175	372	146	186	73
3045	Yellow Beige-DK	596	234	497	195	248	98
3046	Yellow Beige-MD	293	115	245	96	122	48
3052	Green Gray-MD	288	112	240	93	120	47
3078	Golden Yellow-VY LT	146	56	122	47	61	23
3326	Rose-LT	175	68	146	57	73	29
3328	Salmon-DK	182	70	152	59	76	29
3346	Hunter Green	526	205	438	171	219	86
3348	Yellow Green-LT	270	106	225	89	113	44

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3364	Pine Green	374	146	312	122	156	61
3706	Melon-MD	297	115	248	96	124	48
3708	Melon-LT	184	72	153	60	77	30
3712	Salmon-MD	374	146	312	122	156	61
3753	Antique Blue-UL VY LT	72	27	60	23	30	11
3756	Baby Blue-UL VY LT	677	266	564	222	282	111
3782	Mocha Brown-LT	283	110	236	92	118	46
3787	Brown Gray-DK	322	126	269	105	134	53
3819	Moss Green-LT	130	50	108	42	54	21
3820	Straw-DK	378	148	315	123	158	62
3822	Straw-LT	196	76	164	63	82	32
3823	Yellow-UL Pale	218	85	182	71	91	35
3824	Apricot-LT	295	115	246	96	123	48
3826	Golden Brown	329	130	275	108	137	54
3829	Old Gold-VY DK	239	94	200	78	100	39
3830	Terra Cotta-MD	257	101	215	84	107	42
3832	Raspberry-MD	50	20	42	17	21	8
3833	Raspberry-LT	79	31	66	26	33	13
3852	Straw-VY DK	556	218	464	182	232	91
3853	Autumn Gold-DK	356	139	297	116	149	58
3859	Rosewood-LT	131	50	110	42	55	21
3862	Mocha Beige-DK	189	74	158	62	79	31
3866	Mocha Brown-UL VY LT	671	263	560	219	280	110
Ecu	Ecu	202	79	168	66	84	33

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	10312	4059	9915	3903	9548	3759
221	Shell Pink-VY DK	11	4	10	3	10	3
224	Shell Pink-VY LT	28	11	27	10	26	10
307	Lemon	149	58	143	56	138	54
353	Peach	119	46	114	44	110	43
356	Terra Cotta-MD	83	32	80	31	77	30
369	Pistachio Green-VY LT	161	63	155	61	149	59
420	Hazelnut Brown-DK	117	45	112	44	108	42
444	Lemon-DK	195	76	188	73	181	71
470	Avocado Green-LT	104	41	100	39	97	38
472	Avocado Green-UL LT	60	24	58	23	56	22
501	Blue Green-DK	111	43	107	42	103	40
522	Fern Green	131	51	126	49	121	47
523	Fern Green-LT	67	26	64	25	62	24
524	Fern Green-VY LT	207	81	199	78	192	75
543	Beige Brown-UL VY LT	81	32	78	30	75	29
611	Drab Brown	219	86	210	82	203	79
613	Drab Brown-VY LT	120	47	115	45	111	43
632	Desert Sand-UL VY DK	66	26	64	25	61	24
644	Beige Gray-MD	57	22	55	21	53	21
647	Beaver Gray-MD	69	27	66	26	64	25
677	Old Gold-VY LT	87	34	84	33	81	31
704	Chartreuse-BRT	76	30	73	28	70	27
712	Cream	69	27	66	26	64	25
725	Topaz	119	46	114	44	110	43
726	Topaz-LT	380	149	366	143	352	138
727	Topaz-VY LT	82	32	79	30	76	29
730	Olive Green-VY DK	279	109	268	105	258	101

732	Olive Green	171	67	164	64	158	62
733	Olive Green-MD	118	46	114	44	109	43
734	Olive Green-LT	110	43	106	42	102	40
739	Tan-UL VY LT	48	19	46	18	45	17
742	Tangerine-LT	107	42	102	40	99	39
744	Yellow-Pale	251	99	241	95	232	91
746	Off White	264	104	254	100	245	96
760	Salmon	180	71	173	68	167	65
762	Pearl Gray-VY LT	177	69	170	66	164	64
778	Antique Mauve-VY LT	14	5	14	5	13	5
782	Topaz-DK	47	18	45	17	43	17
801	Coffee Brown-DK	222	87	213	84	205	81
816	Garnet	71	27	69	26	66	25
830	Golden Olive-DK	144	56	138	54	133	52
832	Golden Olive	127	50	122	48	117	46
833	Golden Olive-LT	113	44	109	42	105	41
838	Beige Brown-VY DK	31	12	30	11	29	11
839	Beige Brown-DK	104	41	100	39	97	38
892	Carnation-MD	77	30	74	29	71	28
905	Parrot Green-DK	91	35	87	34	84	33
907	Parrot Green-LT	107	42	103	40	99	39
927	Gray Green-LT	37	14	36	14	35	13
928	Gray Green-VY LT	82	32	79	30	76	29
934	Black Avocado Green	12	4	12	4	11	4
935	Avocado Green-DK	193	76	186	73	179	70
937	Avocado Green-MD	271	107	261	102	251	99
963	Dusty Rose-UL VY LT	82	32	79	30	76	29
973	Canary-BRT	318	125	305	120	294	115
975	Golden Brown-DK	150	58	144	56	139	54
976	Golden Brown-MD	138	54	132	52	127	50
3012	Khaki Green-MD	251	99	241	95	232	91
3021	Brown Gray-VY DK	183	72	176	69	169	67
3024	Brown Gray-VY LT	160	63	154	60	148	58
3031	Mocha Brown-VY DK	179	70	172	67	165	65
3045	Yellow Beige-DK	238	94	229	90	221	87
3046	Yellow Beige-MD	117	46	113	44	109	43
3052	Green Gray-MD	115	45	111	43	107	41
3078	Golden Yellow-VY LT	58	22	56	21	54	21
3326	Rose-LT	70	27	67	26	65	25
3328	Salmon-DK	73	28	70	27	67	26
3346	Hunter Green	210	82	202	79	195	76
3348	Yellow Green-LT	108	42	104	41	100	39
3364	Pine Green	150	58	144	56	139	54
3706	Melon-MD	119	46	114	44	110	43
3708	Melon-LT	73	29	71	28	68	27
3712	Salmon-MD	150	58	144	56	139	54
3753	Antique Blue-UL VY LT	29	11	28	10	27	10
3756	Baby Blue-UL VY LT	271	107	260	102	251	99
3782	Mocha Brown-LT	113	44	109	42	105	41
3787	Brown Gray-DK	129	50	124	48	119	47
3819	Moss Green-LT	52	20	50	19	48	19
3820	Straw-DK	151	59	145	57	140	55
3822	Straw-LT	78	30	75	29	73	28
3823	Yellow-UL Pale	87	34	84	33	81	31
3824	Apricot-LT	118	46	114	44	109	43
3826	Golden Brown	132	52	127	50	122	48
3829	Old Gold-VY DK	96	37	92	36	89	35
3830	Terra Cotta-MD	103	40	99	39	95	37
3832	Raspberry-MD	20	8	19	8	19	7

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3833	Raspberry-LT	32	12	30	12	29	11
3852	Straw-VY DK	222	87	214	84	206	81
3853	Autumn Gold-DK	143	55	137	53	132	51
3859	Rosewood-LT	53	20	51	19	49	19
3862	Mocha Beige-DK	76	30	73	28	70	27
3866	Mocha Brown-UL VY LT	269	105	258	101	249	97
Ecru	Ecru	81	32	78	30	75	29

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	9207	3624	8593	3383	8056	3171
221	Shell Pink-VY DK	10	3	9	3	8	3
224	Shell Pink-VY LT	25	10	23	9	22	8
307	Lemon	133	52	124	49	116	46
353	Peach	106	41	99	38	93	36
356	Terra Cotta-MD	74	29	69	27	65	25
369	Pistachio Green-VY LT	144	57	134	53	126	50
420	Hazelnut Brown-DK	104	41	97	38	91	35
444	Lemon-DK	174	68	163	64	152	60
470	Avocado Green-LT	93	37	87	34	82	32
472	Avocado Green-UL LT	54	21	50	20	47	19
501	Blue Green-DK	99	39	92	36	87	34
522	Fern Green	117	46	109	43	102	40
523	Fern Green-LT	60	23	56	22	52	20
524	Fern Green-VY LT	185	73	173	68	162	64
543	Beige Brown-UL VY LT	72	28	67	26	63	25
611	Drab Brown	195	77	182	71	171	67
613	Drab Brown-VY LT	107	42	100	39	93	37
632	Desert Sand-UL VY DK	59	23	55	22	52	20
644	Beige Gray-MD	51	20	47	19	44	17
647	Beaver Gray-MD	62	24	58	22	54	21
677	Old Gold-VY LT	78	30	73	28	68	26
704	Chartreuse-BRT	68	26	63	25	59	23
712	Cream	62	24	58	22	54	21
725	Topaz	106	41	99	38	93	36
726	Topaz-LT	339	133	317	124	297	116
727	Topaz-VY LT	73	28	68	26	64	25
730	Olive Green-VY DK	249	98	232	91	218	86
732	Olive Green	152	60	142	56	133	52
733	Olive Green-MD	105	41	98	38	92	36
734	Olive Green-LT	98	39	92	36	86	34
739	Tan-UL VY LT	43	17	40	16	38	15
742	Tangerine-LT	95	37	89	35	83	33
744	Yellow-Pale	224	88	209	82	196	77
746	Off White	236	93	220	86	206	81
760	Salmon	161	63	150	59	141	55
762	Pearl Gray-VY LT	158	62	148	58	138	54
778	Antique Mauve-VY LT	13	5	12	4	11	4
782	Topaz-DK	42	16	39	15	37	14
801	Coffee Brown-DK	198	78	185	73	173	68
816	Garnet	64	24	59	23	56	21
830	Golden Olive-DK	129	50	120	47	113	44
832	Golden Olive	113	44	106	41	99	39
833	Golden Olive-LT	101	39	94	37	88	34
838	Beige Brown-VY DK	28	10	26	10	24	9

839	Beige Brown-DK	93	37	87	34	82	32
892	Carnation-MD	69	27	64	25	60	24
905	Parrot Green-DK	81	32	76	29	71	28
907	Parrot Green-LT	96	37	89	35	84	33
927	Gray Green-LT	33	13	31	12	29	11
928	Gray Green-VY LT	73	28	68	26	64	25
934	Black Avocado Green	11	4	10	4	10	3
935	Avocado Green-DK	172	68	161	63	151	59
937	Avocado Green-MD	242	95	226	89	212	83
963	Dusty Rose-UL VY LT	73	28	68	26	64	25
973	Canary-BRT	284	111	265	104	248	97
975	Golden Brown-DK	134	52	125	49	117	46
976	Golden Brown-MD	123	48	115	45	107	42
3012	Khaki Green-MD	224	88	209	82	196	77
3021	Brown Gray-VY DK	163	64	152	60	143	56
3024	Brown Gray-VY LT	143	56	133	52	125	49
3031	Mocha Brown-VY DK	159	62	149	58	140	55
3045	Yellow Beige-DK	213	84	199	78	186	73
3046	Yellow Beige-MD	105	41	98	38	92	36
3052	Green Gray-MD	103	40	96	37	90	35
3078	Golden Yellow-VY LT	52	20	49	19	46	17
3326	Rose-LT	62	24	58	23	55	21
3328	Salmon-DK	65	25	61	23	57	22
3346	Hunter Green	188	73	175	68	164	64
3348	Yellow Green-LT	96	38	90	35	84	33
3364	Pine Green	134	52	125	49	117	46
3706	Melon-MD	106	41	99	38	93	36
3708	Melon-LT	66	26	61	24	57	23
3712	Salmon-MD	134	52	125	49	117	46
3753	Antique Blue-UL VY LT	26	10	24	9	23	8
3756	Baby Blue-UL VY LT	242	95	226	89	212	83
3782	Mocha Brown-LT	101	39	94	37	88	34
3787	Brown Gray-DK	115	45	107	42	101	39
3819	Moss Green-LT	46	18	43	17	41	16
3820	Straw-DK	135	53	126	49	118	46
3822	Straw-LT	70	27	65	25	61	24
3823	Yellow-UL Pale	78	30	73	28	68	26
3824	Apricot-LT	105	41	98	38	92	36
3826	Golden Brown	118	46	110	43	103	41
3829	Old Gold-VY DK	86	33	80	31	75	29
3830	Terra Cotta-MD	92	36	86	34	80	32
3832	Raspberry-MD	18	7	17	7	16	6
3833	Raspberry-LT	28	11	26	10	25	10
3852	Straw-VY DK	199	78	185	73	174	68
3853	Autumn Gold-DK	127	50	119	46	111	43
3859	Rosewood-LT	47	18	44	17	41	16
3862	Mocha Beige-DK	68	26	63	25	59	23
3866	Mocha Brown-UL VY LT	240	94	224	88	210	82
Ecrú	Ecrú	72	28	67	26	63	25

(9)

(9) (10)

$$(10) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (11)$$

[illegible]

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

[illegible]

(14)

$$(15) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

$$(16) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

$$(17) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

	130	140	150	160	170
70
80
90
100
110
120

$$(19) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

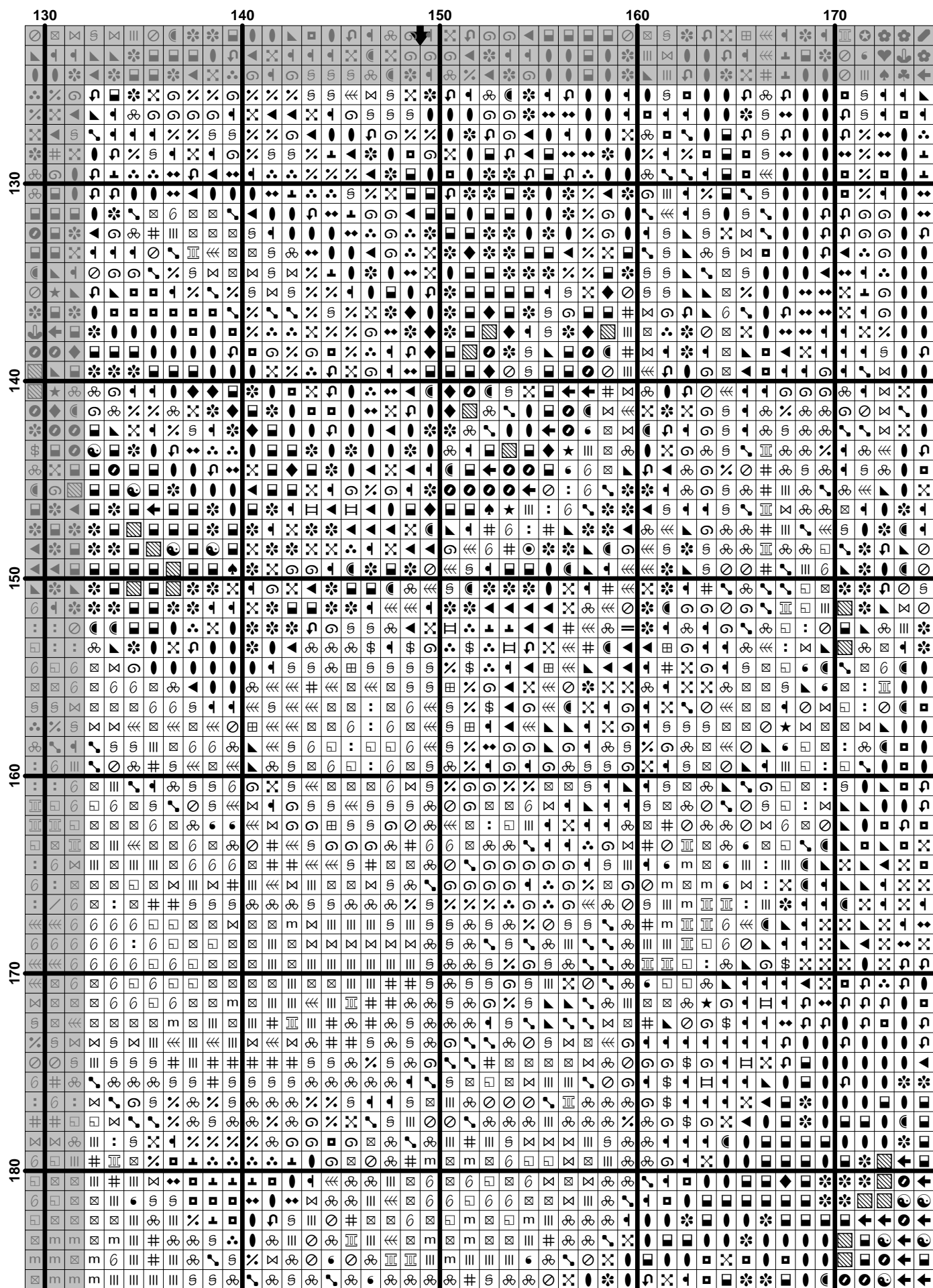
$$(20) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (21)$$

(21)

$$(22) \quad \mathcal{H}^{\text{reg}}_{\text{reg}} = \mathcal{H}^{\text{reg}}_{\text{reg}} \quad (23)$$

$$(23) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (24)$$

[illegible]

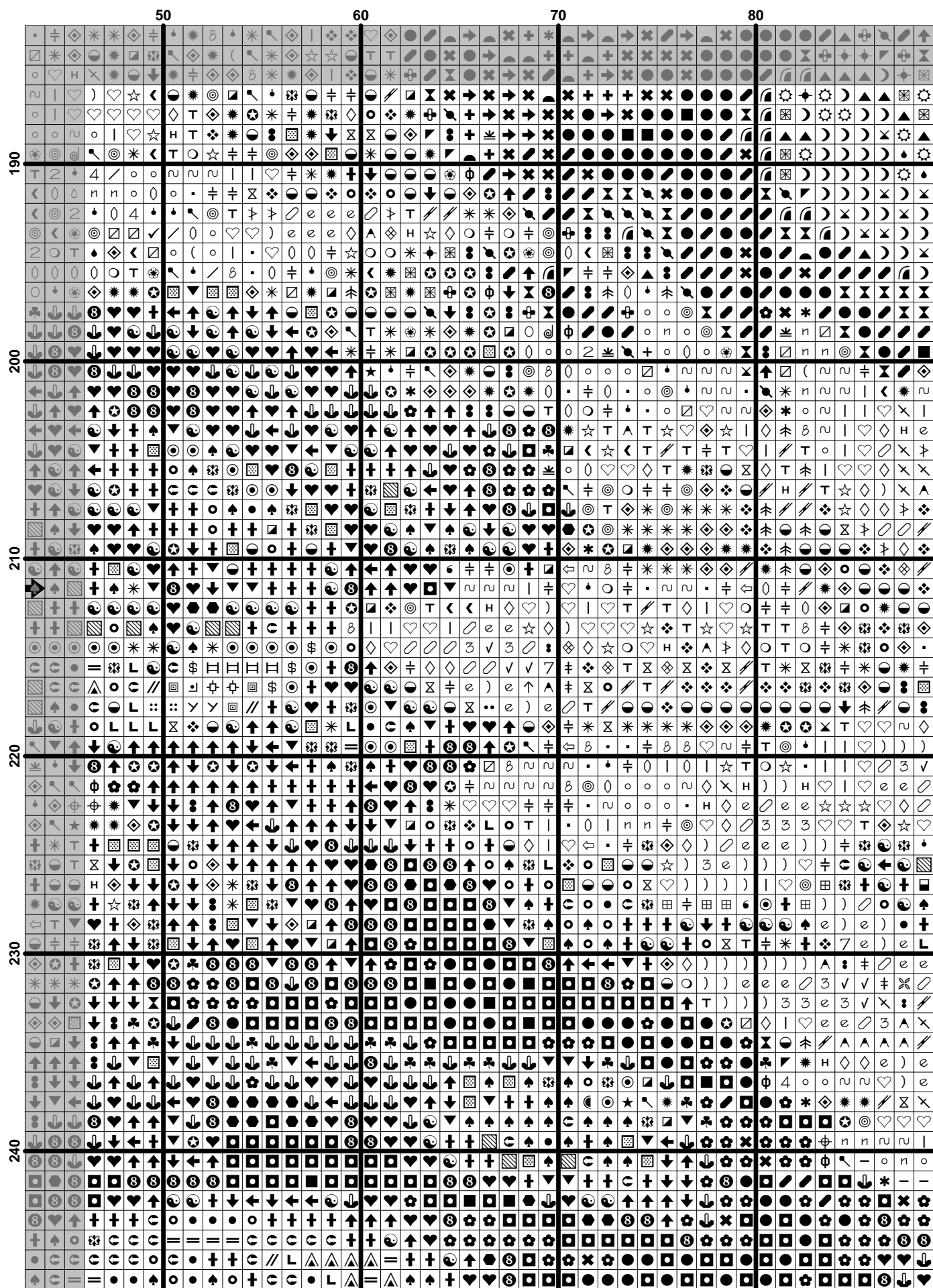




[illegible]

(28)

[illegible]



[illegible]

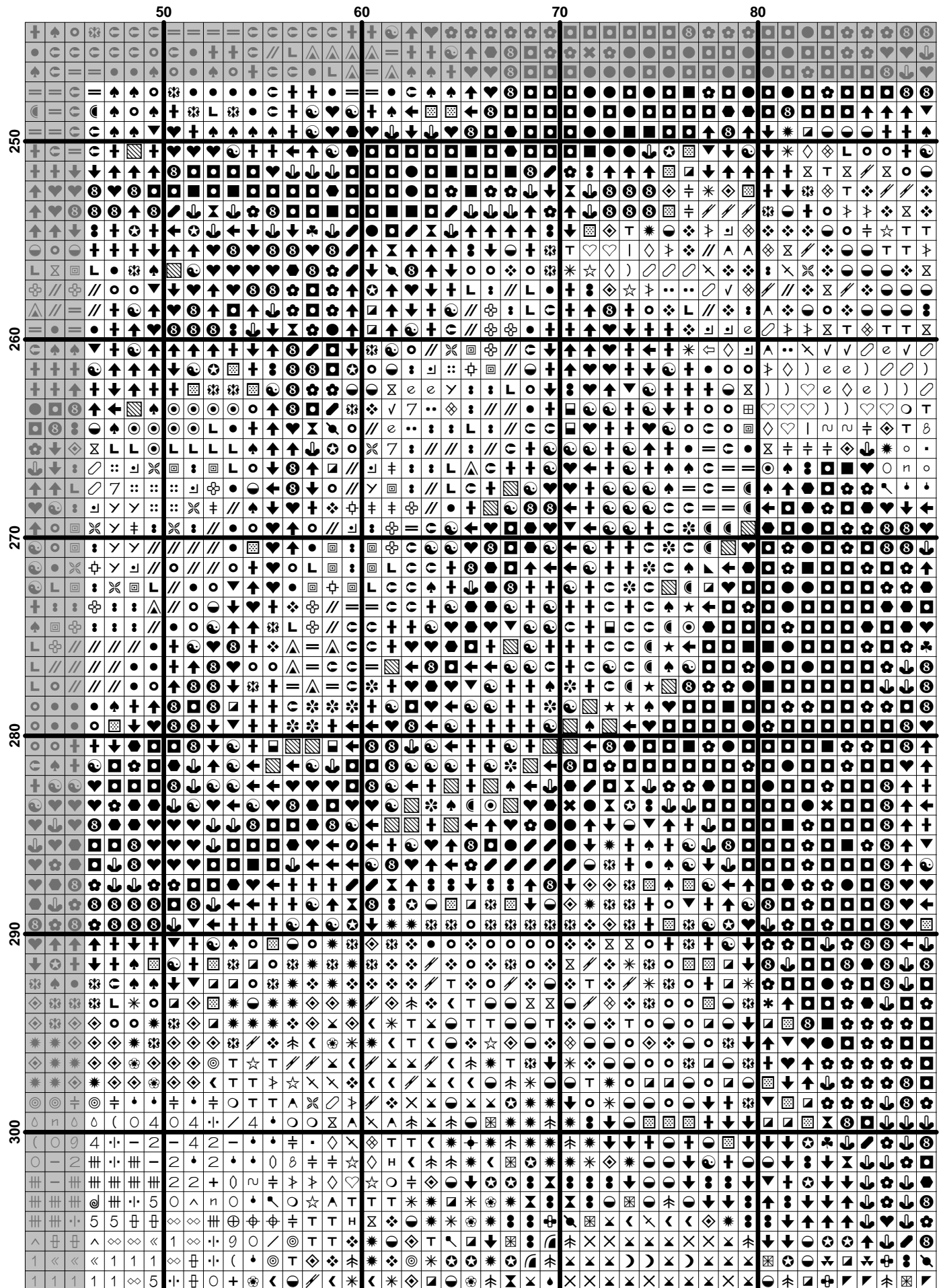
	130	140	150	160	170
190					
200					
210					
220					
230					
240					

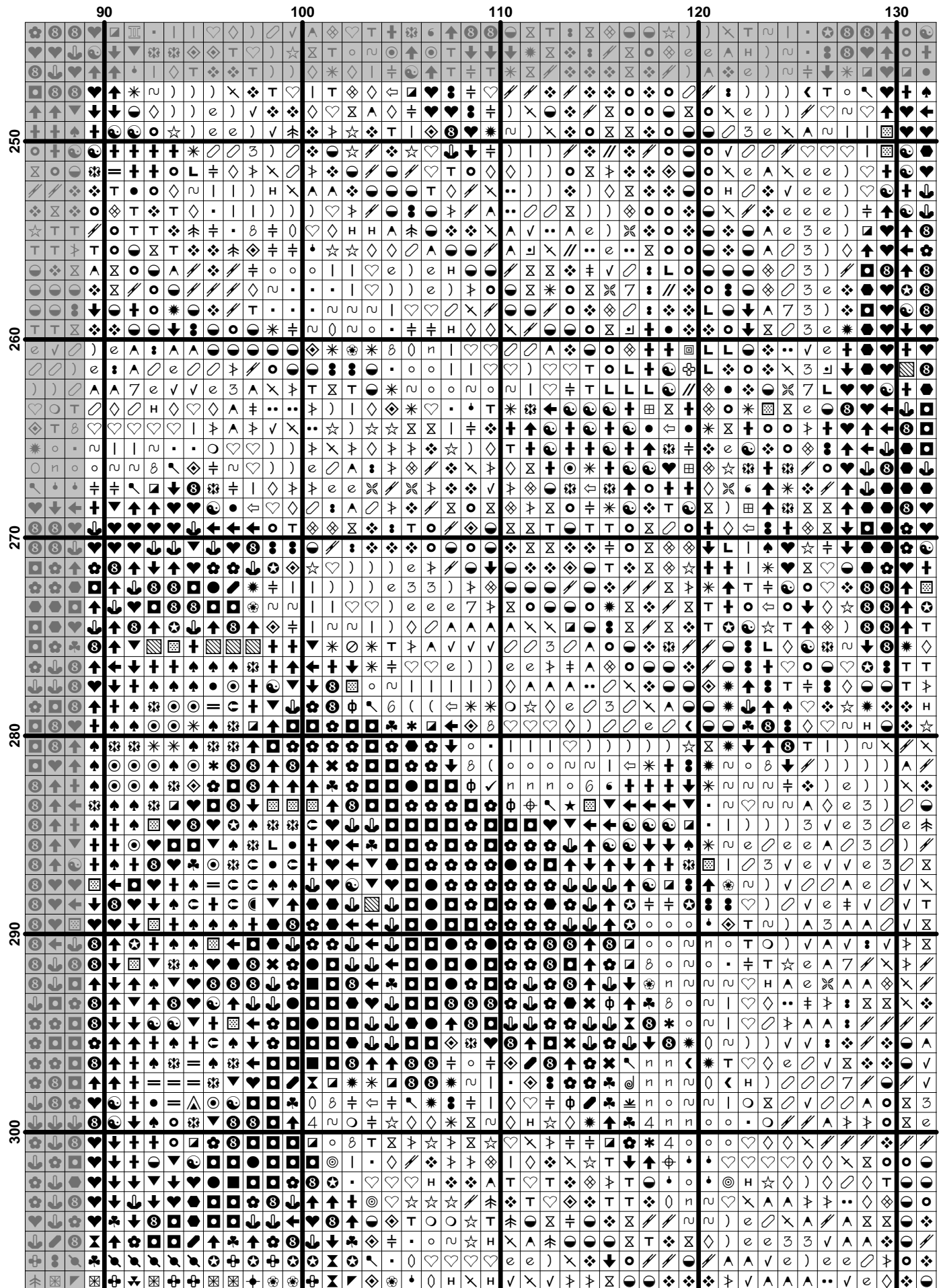
[illegible]

	220	230	240	250	260
190
200
210
220
230
240

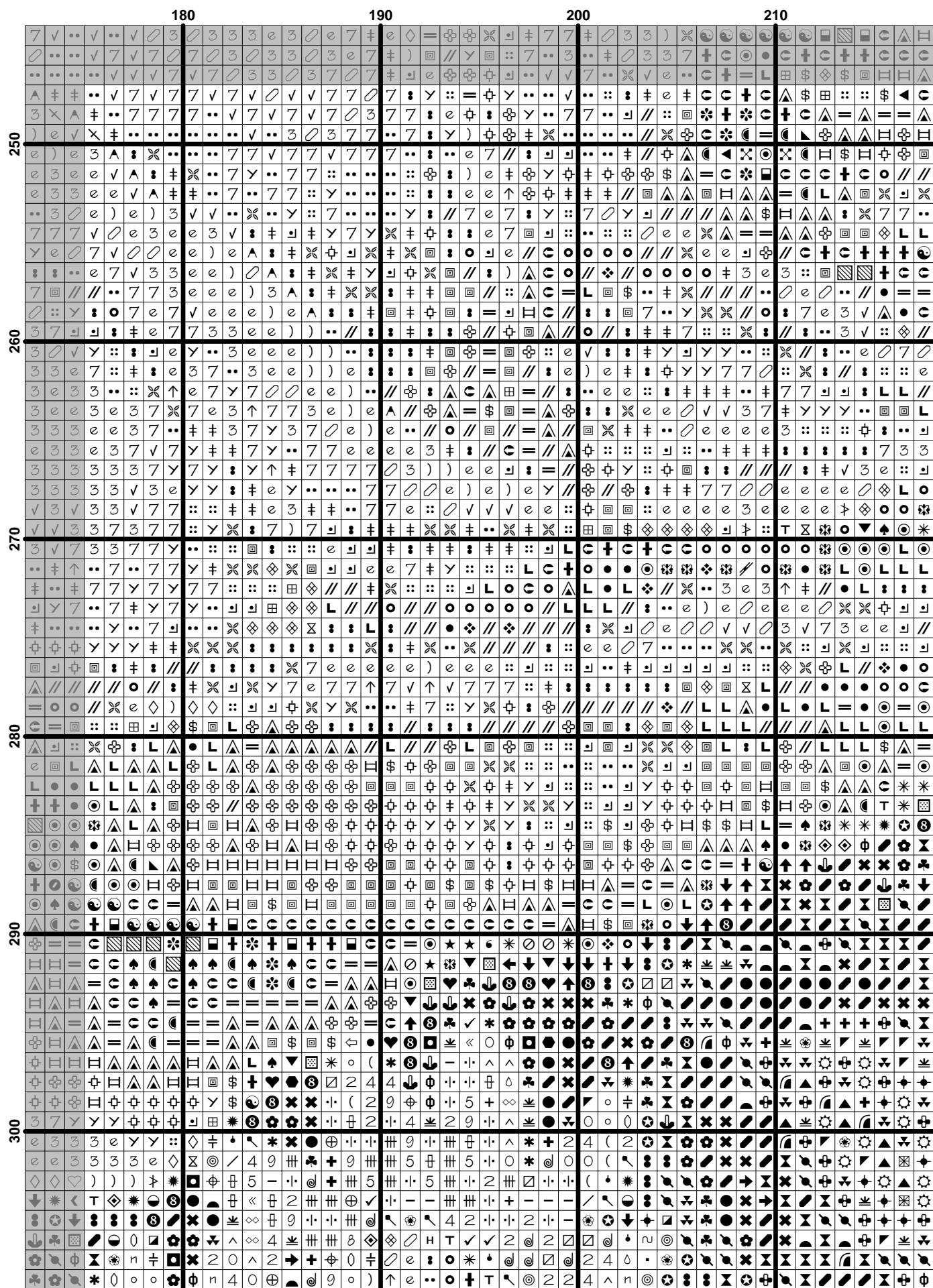
(35)

$$(36) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$





(40)



[illegible]

(42)

[illegible]

[illegible]

	90	100	110	120	130
310
320
330
340
350
360

	130	140	150	160	170
310					
320					
330					
340					
350					
360					

	180	190	200	210
310				
320				
330				
340				
350				
360				

$$(48) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

(49)

[illegible]

[illegible]

[illegible]

	130	140	150	160	170
370					
380					
390					
400					
410					
420					

[illegible]

[illegible]

[illegible]