

The Turku Stockings



The Turku stockings, knit with fine silk yarn, date back to c. 1650. The stockings are part of the collection of The Turku Cathedral Museum, Finland.

The leg of the long stocking is decorated with a diamond-patterned back seam running from the cuff to the tip of the heel. The first part of the seam pattern (Chart A) is knitted at the beginning of the round, the second part (Chart B) at the end of the round. The decreases and increases next to the back seam follow the shape of the leg closely, giving the stocking a perfect fit.

The most striking decorative feature of the stocking is the clock, large decorative pattern on both sides of the ankle. Half-diamond patterned decorations run along the edges of the heel flap and the instep. Gusset decreases continue all the way through the foot, and shaping of the foot is done by increases on the sole, forming a widening wedge towards the toes.

Please note that in addition to this pattern there is also a two-part table with stitch and row counts to help the knitter to understand the structure of the stocking, providing practical help when knitting.

Materials and notions

150 g fine yarn, e. g. Vuorelma kampalanka (1650 m /100 g) or reeled silk floss with little or no twist
Double pointed needles 0,7 mm or 1,0 mm, a crochet hook in similar size and stitch markers (optional)

Gauge: 8 sts and 12 rnds = 1 cm in stockinette (80 sts and 120 rnds = 10 cm in stockinette)

Size

One size, middle back length of the stocking 61 cm from the cast-on edge to the tip of the heel, ankle circumference 24 cm and foot circumference 38 cm. Footlength 24 cm.

Abbreviations and key to the charts

k – knit

k2tog – knit 2 stitches together

p – purl

p2tog – purl 2 stitches together

RLI – right-leaning lifted increase = pick up and knit the right leg of the stitch directly below the first stitch on your left needle <https://www.youtube.com/watch?v=hHzZ8JXjwr4>

RS – right side



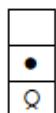
st(s) – stitch, stitches

skpo – slip one stitch knitwise, knit on the next stitch, pick the slipped stitch and pass it over the knitted stitch

WS – wrong side

* * - repeat

Key to the charts



RS: knit WS:purl
RS: purl WS: knit
knit through back loop

Cuff and leg

Cast on 288 sts. A cast-on edge similar to the original stocking can be created with the cast-on technique explained at the end of this pattern; you may also use other methods. Divide stitches evenly on four needles (or two, if using magic-loop) and join for working in the round. The beginning of round is at the back of the leg.

Work *k8, p8 * ribbing for 8 rounds. Purl 1 round.

Begin the diamond pattern on the back of the leg following Charts A and B: work Chart A, knit until 6 sts remain before the end of the round, work Chart B. Both charts are repeated only once per round. Please note that Chart A is worked over 7 stitches, Chart B over 6 stitches.

Chart A

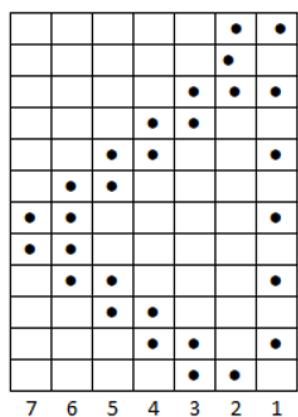
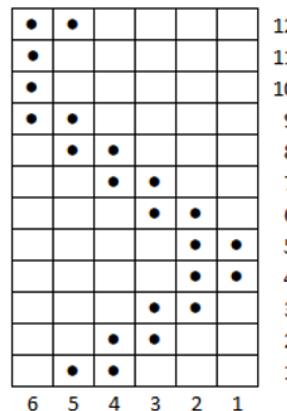


Chart B



After knitting rounds 1–10, begin the thigh-decreases: work row 11 of Chart A, k2tog, knit until you have 8 sts before the end of the round, k2tog, work row 11 Chart B. You now have 286 sts.

Continue repeating Charts A and B (rows 1–12), and at the same time repeat the decreases as described above on every 10th row. Continue as established until you have repeated the decreases 29



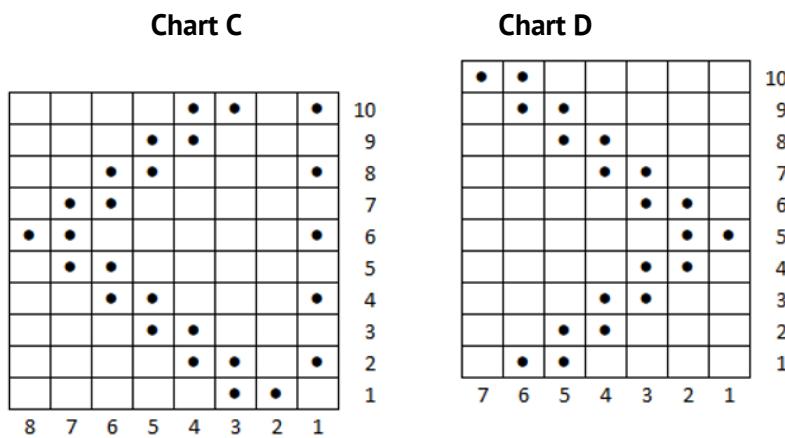
times. The stocking now has 230 sts, and you have last worked row 3 of the Charts A and B. Work the remaining rounds until you've finished the charts. You now have 25 repeats of the diamond pattern.

The stocking should now reach well below the knee, and you can begin the leg increases. The increases are worked as follows: work row 1 of Chart A, increase 1 s, knit until 6 sts remain before the end of the round, increase 1 s, work row 1 of Chart B. You now have 232 sts. Continue repeating Charts A and B, and at the same time work the increases as described above every 6th row. Work the increases total 6 times. You now have 242 sts.

Work 46 rounds with no increases, repeating the charts. After the straight section of the leg you have last finished row 5 of the Charts on the 32th repeat of the diamond pattern.

Continue working charts A and B and work the first set of leg decreases: work row 6 of Chart A, k2tog, knit until 8 sts remains, k2tog, work row 6 of Chart B. Work rows 7-12 of the charts. Charts A and B are worked 32 times total. You now have 240 sts.

The diamond pattern of the leg continues, but at this point the charts change slightly. Chart C replaces Chart A, Chart D replaces Chart B.



Repeat the leg decreases every 8th round, starting from row 2 of Charts C and D. Work the decrease round as follows: work Chart C, k2tog, knit until 9 sts remains before the end of the round, k2tog, work Chart D. Work the decreases every 8th row 11 times total. You now have 220 sts. The last round worked is row 8 of the charts.

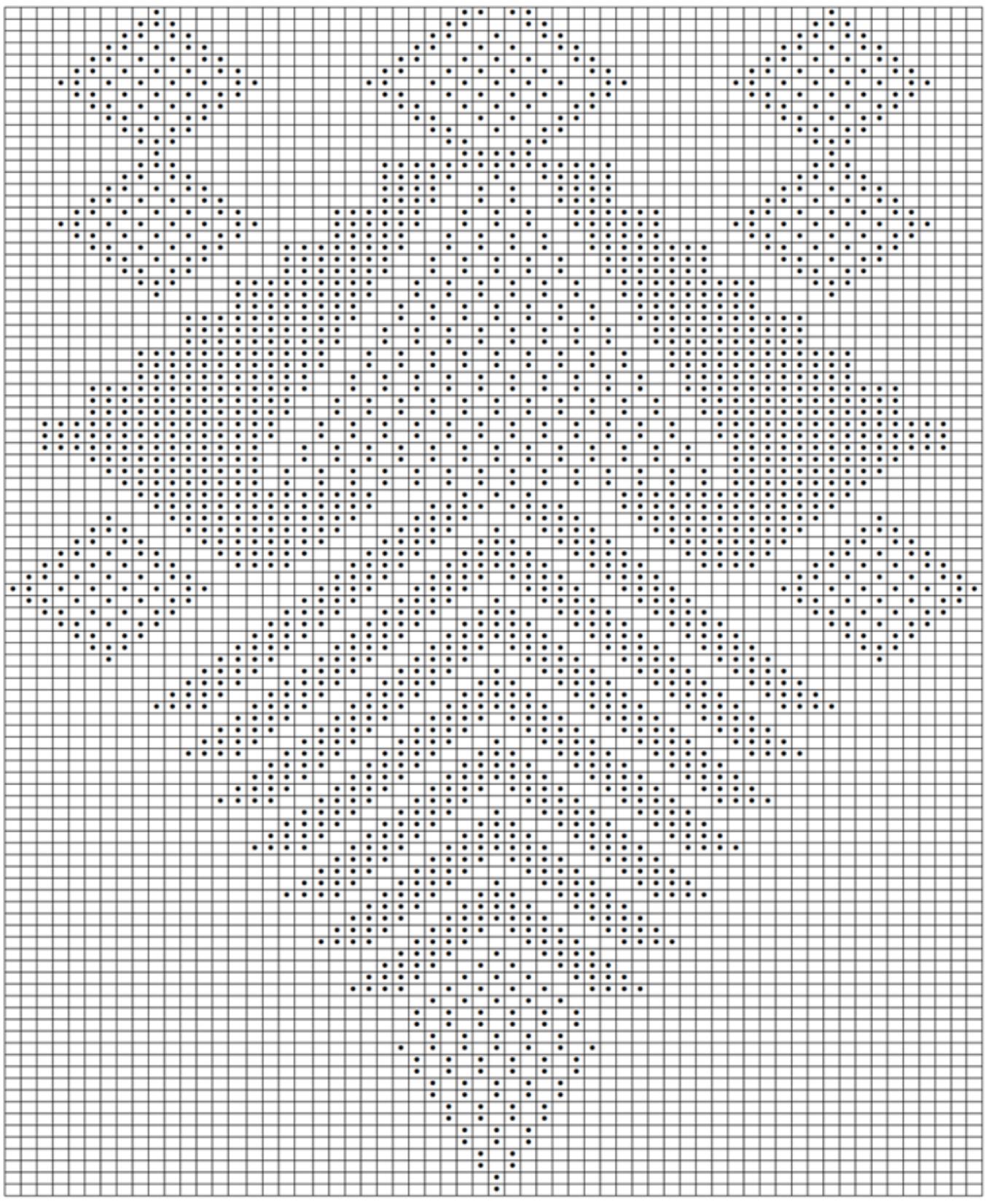
The clock

On the next round (row 463 of the stocking) begin the clock pattern: knit row 9 of the Chart C, k23, work row 1 of Chart E (sts 1-61), k37, work row 1 of Chart E (sts 1-61), k23, work row 9 of Chart D. Continue as established until you've worked rows 1-101 of Chart E. At the same time continue the leg decreases every 10th round (rounds 10, 20, 30 etc. of Chart E). The leg decreases are worked 21 times total.

On the last row of the ankle (row 563 of the stocking, row 9 of the 50th repeat of the diamond pattern) knit until 51 sts remain before the end of the row. The 97 sts last knitted will now wait until the heel is finished, and you can transfer them onto waste yarn.



Chart E



61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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Heel

The heel flap is worked back and forth on both sides of the center back (beginning of the round): the first 52 sts and the last 51 sts of the round. The heel flap has 103 sts.

The heel flap is decorated with an edging of half-diamond pattern and twisted stitches (Charts F and G). The diamond pattern of the back seam continues up to the tip of the heel.

Before starting the heel, work to the end of the row. Work row 10 of Chart C, knit 44 sts.

Turn. Start the heel with a WS row with the 103 sts last worked. The edging of the heel flap is worked according to Charts G and F.

Chart G

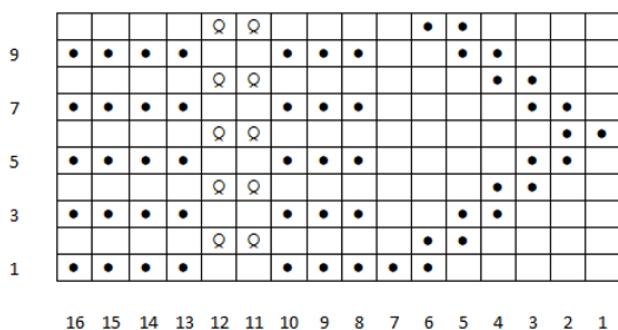
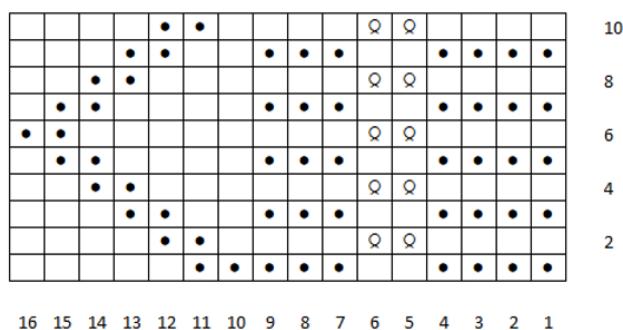


Chart F



On the WS rows the order of the charts is G, C, D, and F from left to right: work Chart G, purl until 7 sts remain before the center back (beginning of round), work charts C and D, purl until 16 sts remain, work Chart F. On the RS rows work Chart F, knit until 6 sts remain before the center back, work charts D and C, knit until 16 sts remain, work Chart G.

On row 8 of charts F and G, begin the decreases on both sides of the back seam pattern (Charts C and D). On a decrease row, work Chart F, knit until 2 sts remains before Chart D, k2tog, work Charts D and D, skpo, knit until 16 sts remains, work chart G.

Work the heel flap decreases every 10th row 15 times total.

On the heel lap the charts C, D, F and G are repeated 15 times total, after that rows 1-6 of the charts are knitted once. The diamond patterns end here.

Heel decreases

Work the heel decreases as follows:

1. row (RS): knit sts 1–9 of Chart F, knit until 9 sts remain before the center st of the heel flap, k2tog, k7, p1, k7, skpo, knit until 9 sts remain, knit sts 8–16 of Chart G, turn.
 2. row (WS): work sts 8–16 of Chart G, purl until 9 sts remain before the center st, p2tog, p15, p2tog, purl until 9 sts remain, work sts 1–9 of Chart F, turn.
- Repeat rows 1 and 2 until 65 sts remain.



On the next row, work until the center stitch but do not decrease. Fold the heel flap in two RS facing out. Use three-needle bind off (or similar technique) to knit the remaining heel flap stitches (65 sts) together starting from the center. After the bind off you should have 1 st on the needle. Do not cut the yarn.

Foot



The foot is knitted in the round. The shaping is different from a typical modern sock, and is achieved by both decreasing (gusset decreases) and increasing (sole increases) at the same time.

If you wish, you can use stitch markers to separate the 97 instep stitches from the gusset stitches. Alternatively, you can arrange the stitches so that instep sts are on their own needle(s), the stitches picked up from the edges of the heel flap each side on their own needle. The instep has a decorative band with half diamond pattern on the other side (Charts H and I). The beginning of the round is the center of the sole. The first stitch of the round is the stitch you have left after the 3-needle bind-off.

The gusset decreases are worked all the way through the foot, in the beginning on every round, later on every second round. In the original stockings the gusset decreases are symmetrical in the beginning: k2tog on the right side, skpo on the left, but later on decreases on both sides are worked k2tog.

The sole of the stocking is shaped by a widening panel edged by 1-stitch wide decorative bands (knitted and purled stitches on alternate rows). The increases used on the sole are right-leaning lifted increases (RLI).

Towards the toe the instep decorative patterns continue as plain bands with decreases on both sides. The last stitches are grafted together.

Gusset and gusset decreases

After the 3-needle bind-off of the heel flap you have 1 st left on your needle. Pick up the yarn loop between the left edge of the heel flap and the following stitch from the wrong side. There are similar loops on every second row of the heel flap, pick up all 80 loops on the wrong side of left edge.

Slip the live stitch left from the bind off and knit the picked up loops as follows:

1. Knit 3 loops so that the edge st of the heel flap is on the RS.
 2. Pick up one more loop between the stitch you've just knitted and the next loop, knit that loop.
- Repeat 1 and 2 all the through the heel flap. After the last extra loop there are only two loops to be knitted.

Now you have 106 sts knitted on the side of the heel.

Work the instep stitches as follows: p3, k2, p3, knit until 8 instep sts remain, p3, k2, p3.



Pick up and knit the loops from the right edge of the heel flap using the same method as you did on the left edge.

You now have 310 sts.

Work the set-up row for the gusset decreases: k3, p1 (this purl stitch is from now on called 'the decorative stitch'), knit until 2 sts picked up from the edge of the heel remain, k2tog, work row S of Chart H, knit until 17 sts of the instep remain, work row S of Chart I, skpo, knit until 3 sts remain, p1 (second decorative stitch), k2.



After the set-up row work **the gusset decreases**:

Gusset decrease round 1: knit until the decorative stitch, knit the decorative stitch, knit until 1 st remains before the gusset decrease, k2tog, work Chart H (row 1), knit until 17 instep sts remain, work Chart I, skpo, knit until the decorative stitch, knit the decorative stitch, knit until the end of the round.

Gusset decrease round 2: knit until the decorative stitch, purl the decorative stitch, knit until 1 st remains before the before the gusset decrease, k2tog, work Chart H, knit until 17 instep sts remain, work Chart I (row 1), skpo, knit until the decorative stitch, purl the decorative stitch, knit until the end of the round.

Chart I

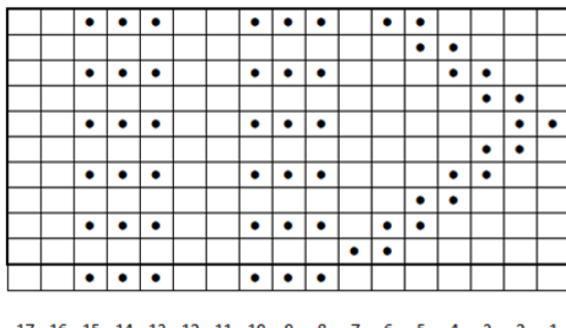
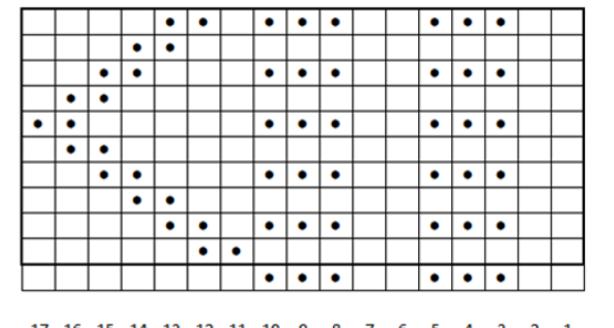


Chart H



Repeat gusset decrease rows 1 and 2 for 12 more times. Work gusset decrease row 1 once more. You now have 258 sts, the gusset decreases have been worked 26 times total.

From now on work the sole increases (while at the same time continuing the gusset decreases) to shape the foot.

Work the first **sole increase round**: knit until 1 st remains before the decorative stitch, RLI, k1, between the decorative bands continue as established, k1, RLI, knit the remaining sole sts.

Work the sole increase round once after 8 rounds, 6 times every 6th round, 6 times every 5th round, 5 times every 4th round, once after 3 rounds and once after 2 rounds. The sole increases are worked 21 times total.

When decreasing and increasing at the same time, it very easily happens that you forget some of the increases. Don't be too harsh on yourself: if you miss the increases on one round, just work them on the



next one. This causes some unevenness in the placement of the increases or decreases, but this seems to have happened to the knitter of the 17th century originals as well. Just make sure the right number of sole increases is worked before the repeats of the instep patterns are finished.

While working the increases on the sole, continue repeating the gusset decrease rows 1 and 2 until you have a total of 64 repeats. From now on, work the gusset decrease row 1 on every second row, alternating with rows with no decreases, knitting the previous decrease stitch.

Continue gusset decreases and sole increases until you have worked the gusset decreases 95 times on each side, and there are 7 stitches between the decorative stitch and the gusset decrease stitch on each side.

At the same time work rounds 1–10 of Charts H and I total 5 times on the instep. From now on the instep is shaped by decreases on every second repeat of Charts H and I (6th, 8th, 10th, and 12th repeat). The decreases can be made either on the first or the third row of the chart: Knit together the 15th and the 16th stitch of Chart H and the 2nd and the 3rd stitch of Chat I. Continue the half-diamond pattern as per charts.

On the instep work rows 1–10 of charts H and I 12 times total. Knit rounds 1–6 once. The work has now 89 instep sts and 65 sole sts. The sole stitches consist of the 47 sts increased and on both sides the decorative stitch, the gusset decrease stitch and the 7 sts between them. The foot has 154 sts total. The different number of stitches of the sole and the instep will be evened out during the toe decreases.

Toes decreases

While working the toe decreases continue working the pattern on the instep (sts 1–10 of Chart H and sts 8–17 of Chart I).



Work the toes decreases as follows:

Round 1: knit until 2 sts remain before st 1 of Chart H, k2tog, work stitches 1–10 of Chart H, k2tog, knit until 2 sts remain before st 8 of Chart I, k2tog, work sts 8–17 of Chart I, k2 tog, knit until end of the row.

Round 2: work as established until the instep pattern, work the instep pattern as per Chart H, knit until the second instep pattern, work as per Chart I, continue as established, purling the decorative st.

Alternate rounds 1 and 2 total 8 times (16 rounds).

Work a special decrease round: knit until 2 sts remain before the instep pattern, repeat *k2tog* 3 times, repeat *k1, k2tog* 2 times, knit until 2 sts remain before the instep pattern, repeat *k2tog* 2 times, repeat *k1, k2tog* 2 times, repeat *k2tog* 2 times, knit to the end of the round. From now on knit 6 sts instead of the instep patterns ('6-stitch band').

Knit one round.

Continue the toe increases alternating two rounds:



Round 1: knit until 2 sts remain before the 6-stitch band, k2tog, k6, k2tog, knit until 2 sts remain before the next 6-stitch band, k2tog, k6, k2tog, knit to the end of the round

Round 2: knit all stitches

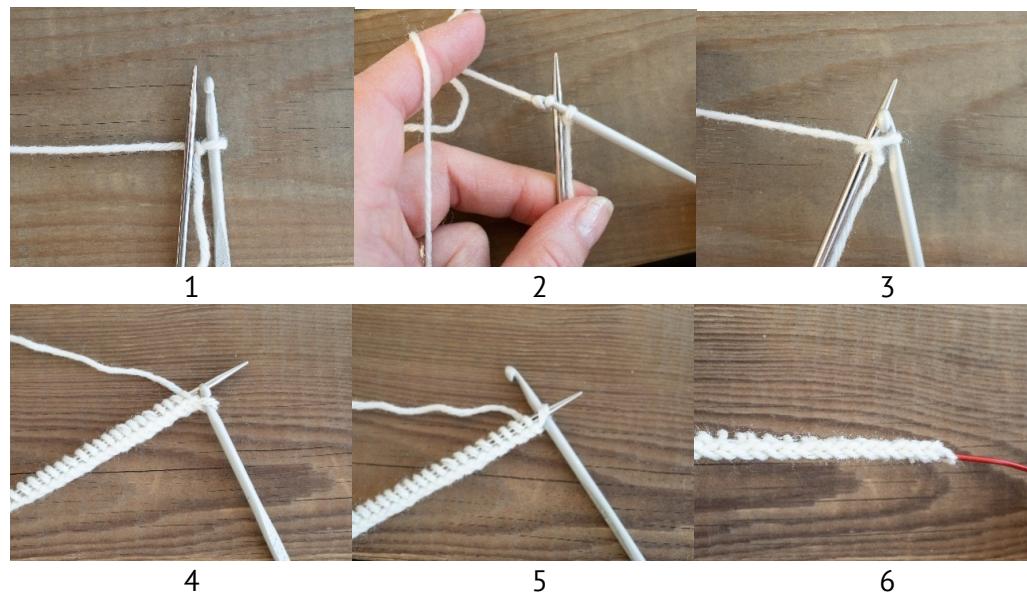
Repeat these two rounds until 50 sts remain. Finish the decreases as follows: knit until the center of the 6-stitch band, k2tog, k1, k2tog, knit until 2 sts remain before the next 6-stitch band, k2tog, k1, k2tog, knit until the end of the round. You now have 46 sts. Knit 12 sts.

Cut the yarn leaving a tail of c. 35 cm. Graft the sole stitches and instep stitches together.

Cast-on

This cast-on technique is easier if using a crochet hook, but can be done with two knitting needles as well. The illustration shows the technique with a crochet hook, just use a knitting needle in its place if you wish.

1. Make a starting stitch, bring your knitting needle next to it. (You can also cast the stitches on two needles held together for a more elastic cast-on edge.)
2. Bring the yarn behind the needle and use the crochet hook/working needle to bring it to the front.
3. Pull the yarn through the loop on the hook/working needle.
4. Repeat 2 and 3, until you have one stitch less than the desired stitch count.
5. Bring yarn behind the knitting needle, transfer the loop on the hook/working needle onto the knitting needle.
6. The resulting cast-on edge is neat and even.



Pattern and translation Liisa Kylmänen, Anna Mäkilä, Virpi Tarvo, Riina Vuokko.

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Photos Refashioning the Renaissance project.

Turku Stocking

diamond no.	chart B	F, G	row	inc./dec.	note	sts	total	Knitted %
			1				288	0,19 %
			2				288	
			3				288	
			4				288	
			5				288	
1	6		6				288	
	7		7				288	
	8		8				288	
	9		9				288	
	10		10				288	
	11		11	-2	29 times every 10th round		286	
	12		12				286	
	1		13				286	
	2		14				286	
	3		15				286	
	4		16				286	
	5		17				286	
2	6		18				286	3,45 %
	7		19				286	
	8		20				286	
	9		21	-2			284	
	10		22				284	
	11		23				284	
	12		24				284	
	1		25				284	
	2		26				284	
	3		27				284	
	4		28				284	
	5		29				284	
3	6		30			1	284	5,72 %
	7		31	-2			282	
	8		32				282	
	9		33				282	
	10		34				282	
	11		35				282	
	12		36				282	
	1		37				282	
	2		38				282	
	3		39				282	
	4		40				282	
	5		41	-2			280	
4	6		42				280	
	7		43				280	
	8		44				280	
	9		45				280	
	10		46				280	
	11		47				280	
	12		48				280	
	1		49				280	
	2		50				280	
	3		51	-2			278	
	4		52				278	
	5		53				278	
5	6		54				278	10,21 %
	7		55				278	
	8		56				278	
	9		57				278	
	10		58				278	
	11		59				278	
	12		60				278	
	1		61	-2			276	
	2		62				276	
	3		63				276	
	4		64				276	
	5		65				276	
6	6		66				276	
	7		67				276	
	8		68				276	
	9		69				276	
	10		70				276	
	11		71	-2			274	
	12		72				274	
	1		73				274	
	2		74				274	
	3		75				274	
	4		76				274	
	5		77				274	
7	6		78				274	
	7		79				274	

	8	80		274	
	9	81	-2	272	
	10	82		272	
	11	83		272	
	12	84		272	
	1	85		272	
	2	86		272	
	3	87		272	
	4	88		272	
	5	89		272	
8	6	90		272	16,81 %
	7	91	-2	270	
	8	92		270	
	9	93		270	
	10	94		270	
	11	95		270	
	12	96		270	
	1	97		270	
	2	98		270	
	3	99		270	
	4	100		270	
	5	101	-2	268	
9	6	102		268	
	7	103		268	
	8	104		268	
	9	105		268	
	10	106		268	
	11	107		268	
	12	108		268	
	1	109		268	
	2	110		268	
	3	111	-2	266	
	4	112		266	
	5	113		266	
10	6	114		266	21,11 %
	7	115		266	
	8	116		266	
	9	117		266	
	10	118		266	
	11	119		266	
	12	120		266	
	1	121	-2	264	
	2	122		264	
	3	123		264	
	4	124		264	
	5	125		264	
11	6	126		264	
	7	127		264	
	8	128		264	
	9	129		264	
	10	130		264	
	11	131	-2	262	
	12	132		262	
	1	133		262	
	2	134		262	
	3	135		262	
	4	136		262	
	5	137		262	
12	6	138		262	25,33 %
	7	139		262	
	8	140		262	
	9	141	-2	260	
	10	142		260	
	11	143		260	
	12	144		260	
	1	145		260	
	2	146		260	
	3	147		260	
	4	148		260	
	5	149		260	
13	6	150		260	
	7	151	-2	258	
	8	152		258	
	9	153		258	
	10	154		258	
	11	155		258	
	12	156		258	
	1	157		258	
	2	158		258	
	3	159		258	
	4	160		258	
	5	161	-2	256	
14	6	162		256	29,48 %

	7	163	256	
	8	164	256	
	9	165	256	
	10	166	256	
	11	167	256	
	12	168	256	
	1	169	256	
	2	170	256	
	3	171	254	
	4	172	254	
	5	173	254	
15	6	174	254	
	7	175	254	
	8	176	254	
	9	177	254	
	10	178	254	
	11	179	254	
	12	180	254	
	1	181	252	
	2	182	252	
	3	183	252	
	4	184	252	
	5	185	252	
16	6	186	252	33,54 %
	7	187	252	
	8	188	252	
	9	189	252	
	10	190	252	
	11	191	250	
	12	192	250	
	1	193	250	
	2	194	250	
	3	195	250	
	4	196	250	
	5	197	250	
17	6	198	250	
	7	199	250	
	8	200	250	
	9	201	248	
	10	202	248	
	11	203	248	
	12	204	248	
	1	205	248	
	2	206	248	
	3	207	248	
	4	208	248	
	5	209	248	
18	6	210	248	37,54 %
	7	211	246	
	8	212	246	
	9	213	246	
	10	214	246	
	11	215	246	
	12	216	246	
	1	217	246	
	2	218	246	
	3	219	246	
	4	220	246	
	5	221	244	
19	6	222	244	
	7	223	244	
	8	224	244	
	9	225	244	
	10	226	244	
	11	227	244	
	12	228	244	
	1	229	244	
	2	230	244	
	3	231	242	
	4	232	242	
	5	233	242	
20	6	234	242	41,45 %
	7	235	242	
	8	236	242	
	9	237	242	
	10	238	242	
	11	239	242	
	12	240	242	
	1	241	240	
	2	242	240	
	3	243	240	
	4	244	240	
	5	245	240	

21	6	246	240	
	7	247	240	
	8	248	240	
	9	249	240	
	10	250	240	
	11	251	-2	
	12	252	238	
	1	253	238	
	2	254	238	
	3	255	238	
	4	256	238	
	5	257	238	
22	6	258	238	45,29 %
	7	259	238	
	8	260	238	
	9	261	-2	
	10	262	236	
	11	263	236	
	12	264	236	
	1	265	236	
	2	266	236	
	3	267	236	
	4	268	236	
	5	269	236	
23	6	270	236	
	7	271	-2	
	8	272	234	
	9	273	234	
	10	274	234	
	11	275	234	
	12	276	234	
	1	277	234	
	2	278	234	
	3	279	234	
	4	280	234	
	5	281	-2	
24	6	282	232	49,05 %
	7	283	232	
	8	284	232	
	9	285	232	
	10	286	232	
	11	287	232	
	12	288	232	
	1	289	232	
	2	290	232	
	3	291	-2 29th dec.	
	4	292	230	
	5	293	230	
25	6	294	230	
	7	295	230	
	8	296	230	
	9	297	230	
	10	298	230	
	11	299	230	
	12	300	230	
	1	301	2 1st calf inc.	
	2	302	total of 6 times every 6th round	
	3	303	232	
	4	304	232	
	5	305	232	
26	6	306	232	52,75 %
	7	307	2	
	8	308	234	
	9	309	234	
	10	310	234	
	11	311	234	
	12	312	234	
	1	313	2	
	2	314	236	
	3	315	236	
	4	316	236	
	5	317	236	
27	6	318	236	
	7	319	2	
	8	320	238	
	9	321	238	
	10	322	238	
	11	323	238	
	12	324	238	
	1	325	2	
	2	326	240	
	3	327	240	
	4	328	240	

28	5	329	240	
	6	330	240	56,55 %
	7	331	242	
	8	332	242	
	9	333	242	
	10	334	242	
	11	335	242	
	12	336	242	
	1	337	242	
	2	338	242	
	3	339	242	
	4	340	242	
	5	341	242	
29	6	342	242	
	7	343	242	
	8	344	242	
	9	345	242	
	10	346	242	
	11	347	242	
	12	348	242	
	1	349	242	
	2	350	242	
	3	351	242	
	4	352	242	
	5	353	242	
30	6	354	242	
	7	355	242	60,58 %
	8	356	242	
	9	357	242	
	10	358	242	
	11	359	242	
	12	360	242	
	1	361	242	
	2	362	242	
	3	363	242	
	4	364	242	
	5	365	242	
31	6	366	242	
	7	367	242	
	8	368	242	
	9	369	242	
	10	370	242	
	11	371	242	
	12	372	242	
	1	373	242	
	2	374	242	
	3	375	242	
	4	376	242	
	5	377	242	64,13 %
32	6	378	-2 first leg shaping dec.	
	7	379	total of 13 times every 8 rnds	
	8	380	before ankle bell begins	
	9	381		
	10	382		
	11	383		
	12 AB	384		
	1 CD	385		
	2	386	-2	
	3	387		
	4	388		
33	5	389		
	6	390		
	7	391		
	8	392		
	9	393		
	10	394	-2	
	1	395		
	2	396		
	3	397		
	4	398		
34	5	399		
	6	400		
	7	401		
	8	402	-2	
	9	403		
	10	404		
	1	405		
	2	406		
	3	407		
	4	408		
35	5	409		
	6	410	-2	
	7	411		

	8	412	232	
	9	413	232	
	10	414	232	
	1	415	232	
	2	416	232	
	3	417	232	
	4	418	-2	
36	5	419	230	
	6	420	230	
	7	421	230	
	8	422	230	
	9	423	230	
	10	424	230	
	1	425	230	
	2	426	-2	71,81 %
	3	427	228	
	4	428	228	
37	5	429	228	
	6	430	228	
	7	431	228	
	8	432	228	
	9	433	228	
	10	434	-2	
	1	435	226	
	2	436	226	
	3	437	226	
	4	438	226	
38	5	439	226	
	6	440	226	
	7	441	226	
	8	442	-2	
	9	443	224	
	10	444	224	
	1	445	224	
	2	446	224	
	3	447	224	
	4	448	224	
39	5	449	224	
	6	450	-2	75,42 %
	7	451	222	
	8	452	222	
	9	453	222	
	10	454	222	
	1	455	222	
	2	456	222	
	3	457	222	
	4	458	-2	
40	5	459	220	
	6	460	220	
	7	461	220	
	8	462	220	
	9	463	220	
	10	464	ankle bell chart begins	
	1	465	220	1
	2	466	-2 Continue leg dec's every 8th rnd	
	3	467	for 13 times more	
	4	468	(total 24 times)	
41	5	469	218	
	6	470	218	2
	7	471	218	
	8	472	218	3
	9	473	218	
	10	474	-2	
	1	475	216	4
	2	476	216	
	3	477	216	5
	4	478	216	
42	5	479	216	6
	6	480	216	
	7	481	216	7
	8	482	-2	
	9	483	214	8
	10	484	214	
	1	485	214	9
	2	486	214	
	3	487	214	10
	4	488	214	
43	5	489	214	11
	6	490	-2	
	7	491	212	12
	8	492	212	
	9	493	212	13
	10	494	212	
				14
				15
				16
				17
				18
				19
				20
				21
				22
				23
				24
				25
				26
				27
				28
				29
				30
				31

	1	495		212	32
	2	496		212	33
	3	497		212	34
	4	498	-2	210	82,36 %
44	5	499		210	35
	6	500		210	36
	7	501		210	37
	8	502		210	38
	9	503		210	39
	10	504		210	40
	1	505		210	41
	2	506	-2	208	42
	3	507		208	43
	4	508		208	44
45	5	509		208	45
	6	510		208	46
	7	511		208	47
	8	512		208	48
	9	513		208	49
	10	514	-2	206	50
	1	515		206	51
	2	516		206	52
	3	517		206	53
	4	518		206	54
46	5	519		206	55
	6	520		206	56
	7	521		206	57
	8	522	-2	204	85,69 %
	9	523		204	59
	10	524		204	60
	1	525		204	61
	2	526		204	62
	3	527		204	63
	4	528		204	64
47	5	529		204	65
	6	530	-2	202	66
	7	531		202	67
	8	532		202	68
	9	533		202	69
	10	534		202	70
	1	535		202	71
	2	536		202	72
	3	537		202	73
	4	538	-2	202	74
48	5	539		200	75
	6	540		200	76
	7	541		200	77
	8	542		200	78
	9	543		200	79
	10	544		200	80
	1	545		200	81
	2	546	-2	198	88,92 %
	3	547		198	83
	4	548		198	84
49	5	549		198	85
	6	550		198	86
	7	551		198	87
	8	552		198	88
	9	553		198	89
	10	554	-2	196	90
	1	555		196	91
	2	556		196	92
	3	557		196	93
	4	558		196	94
50	5	559		196	95
	6	560		196	96
	7	561		196	97
	8	562	-2 this is the last 24th dec	194	98
	9	D 563		194	99
	10	9 564	set up heel flap, knit 49sts after bor, turn ws row, heel flap begins	194	100
	1	10 565		97	101
	2	1 566		97	
	3	2 567		97	
	4	3 568		97	
51	5	4 569		97	
	6	5 570		97	91,67 %
	7	6 571		97	
	8	7 572	-2 every 10th row, total of 15 times	95	
	9	8 573		95	
	10	9 574		95	
	1	10 575		95	
	2	1 576		95	
	3	2 577		95	

	4	3	578		95	
52	5	4	579		95	
	6	5	580		95	
	7	6	581		95	
	8	7	582	-2	93	
	9	8	583		93	
	10	9	584		93	
	1	10	585		93	
	2	1	586		93	
	3	2	587		93	
	4	3	588		93	
53	5	4	589		93	
	6	5	590		93	
	7	6	591		93	
	8	7	592	-2	91	
	9	8	593		91	
	10	9	594		91	93,17 %
	1	10	595		91	
	2	1	596		91	
	3	2	597		91	
	4	3	598		91	
54	5	4	599		91	
	6	5	600		91	
	7	6	601		91	
	8	7	602	-2	89	
	9	8	603		89	
	10	9	604		89	
	1	10	605		89	
	2	1	606		89	
	3	2	607		89	
	4	3	608		89	
55	5	4	609		89	
	6	5	610		89	
	7	6	611		89	
	8	7	612	-2	87	
	9	8	613		87	
	10	9	614		87	
	1	10	615		87	
	2	1	616		87	
	3	2	617		87	
	4	3	618		87	94,59 %
56	5	4	619		87	
	6	5	620		87	
	7	6	621		87	
	8	7	622	-2	85	
	9	8	623		85	
	10	9	624		85	
	1	10	625		85	
	2	1	626		85	
	3	2	627		85	
	4	3	628		85	
57	5	4	629		85	
	6	5	630		85	
	7	6	631		85	
	8	7	632	-2	83	
	9	8	633		83	
	10	9	634		83	
	1	10	635		83	
	2	1	636		83	
	3	2	637		83	
	4	3	638		83	
58	5	4	639		83	
	6	5	640		83	
	7	6	641		83	
	8	7	642	-2	81	95,94 %
	9	8	643		81	
	10	9	644		81	
	1	10	645		81	
	2	1	646		81	
	3	2	647		81	
	4	3	648		81	
59	5	4	649		81	
	6	5	650		81	
	7	6	651		81	
	8	7	652	-2	79	
	9	8	653		79	
	10	9	654		79	
	1	10	655		79	
	2	1	656		79	
	3	2	657		79	
	4	3	658		79	
60	5	4	659		79	
	6	5	660		79	

	7	6	661		79	
	8	7	662	-2	77	
	9	8	663		77	
	10	9	664		77	
	1	10	665		77	
	2	1	666		77	97,21 %
	3	2	667		77	
	4	3	668		77	
61	5	4	669		77	
	6	5	670		77	
	7	6	671		77	
	8	7	672	-2	75	
	9	8	673		75	
	10	9	674		75	
	1	10	675		75	
	2	1	676		75	
	3	2	677		75	
	4	3	678		75	
62	5	4	679		75	
	6	5	680		75	
	7	6	681		75	
	8	7	682	-2	73	
	9	8	683		73	
	10	9	684		73	
	1	10	685		73	
	2	1	686		73	
	3	2	687		73	
	4	3	688		73	
63	5	4	689		73	
	6	5	690		73	98,41 %
	7	6	691		73	
	8	7	692	-2	71	
	9	8	693		71	
	10	9	694		71	
	1	10	695		71	
	2	1	696		71	
	3	2	697		71	
	4	3	698		71	
64	5	4	699		71	
	6	5	700		71	
	7	6	701		71	
	8	7	702	-2	69	
	9	8	703		69	
	10	9	704		69	
	1	10	705		69	
	2	1	706		69	
	3	2	707		69	
	4	3	708		69	
65	5	4	709		69	
	6	5	710		69	
	7	6	711		69	
	8	7	712	-2	67	
	9	8	713		67	
	10	9	714		67	99,52 %
	1	10	715		67	
	2	1	716		67	
	3	2	717		67	
	4	3	718		67	
	5	4	719		67	
	6	5	720		67	
			721		67	
			722	-2	65	
			723	-2	63	
			724	-2	61	149 925
			725	-2	59	100,00 %

160 heel flap rows
106,6667 picking up sts from edge?

48 k1		-2	112	13	77	20	222	7 x x x x	n n	
49 k2		-2	110	13	77	20	220	8 x x n n n x x n n n	n n	
50 k1	42,07 %	-2	108	13	77	20	218	9 x x x x	n n	
51 k2		-2	106	13	77	20	216	10 x x n n n x x n n n	n n	
52 k1s		-2 dec. within chart	104	13	75	-2	20	212	1 x x x x n n	
53 k2p		-2	102	2	15	75	20	212	2 x x n n n x x n n n	
54 k1		-2	100	15	75	20	210	3 x x x x	n n	
55 k2		-2	98	15	75	20	208	4 x x n n n x x n n n	n n	
56 k1		-2	96	15	75	20	206	5 x x x x	n n	
57 k2	6	-2	94	15	75	20	204	6 x x n n n x x n n n	n n	
58 k1		-2	92	15	75	20	202	7 x x x x	n n	
59 k2p		-2	90	2	17	75	20	202	8 x x n n n x x n n n	n n
60 k1	48,59 %	-2	88	17	75	20	200	9 x x x x	n n	
61 k2		-2	86	17	75	20	198	10 x x n n n x x n n n	n n	
62 k1		-2	84	17	75	20	196	1 x x x x n n	n n	
63 k2		-2	82	17	75	20	194	2 x x n n n x x n n n	n n	
64 k1		-2	80	17	75	20	192	3 x x x x	n n	
65 p			80	2	19	75	20	194	4 x x n n n x x n n n	n n
66 k1		-2	78	19	75	20	192	5 x x x x	n n	
67	7		78	19	75	20	192	6 x x n n n x x n n n	n n	
68 k1		-2	76	19	75	20	190	7 x x x x	n n	
69			76	19	75	20	190	8 x x n n n x x n n n	n n	
70 k1	54,65 %	-2	74	19	75	20	188	9 x x x x	n n	
71 p			74	2	21	75	20	190	10 x x n n n x x n n n	n n
72 k1s		-2 dec. within chart	72	21	73	-2	20	186	1 x x x x n n	
73			72	21	73	20	186	2 x x n n n x x n n n	n n	
74 k1		-2	70	21	73	20	184	3 x x x x	n n	
75			70	21	73	20	184	4 x x n n n x x n n n	n n	
76 k1p		-2	68	2	23	73	20	184	5 x x x x	n n
77	8		68	23	73	20	184	6 x x n n n x x n n n	n n	
78 k1		-2	66	23	73	20	182	7 x x x x	n n	
79			66	23	73	20	182	8 x x n n n x x n n n	n n	
80 k1	60,45 %	-2	64	23	73	20	180	9 x x x x	n n	
81 p			64	2	25	73	20	182	10 x x n n n x x n n n	n n
82 k1		-2	62	25	73	20	180	1 x x x x n n	n n	
83			62	25	73	20	180	2 x x n n n x x n n n	n n	
84 k1		-2	60	25	73	20	178	3 x x x x	n n	
85			60	25	73	20	178	4 x x n n n x x n n n	n n	
86 k1p		-2	58	2	27	73	20	178	5 x x x x	n n
87	9		58	27	73	20	178	6 x x n n n x x n n n	n n	
88 k1		-2	56	27	73	20	176	7 x x x x	n n	
89			56	27	73	20	176	8 x x n n n x x n n n	n n	
90 k1	66,05 %	-2	54	27	73	20	174	9 x x x x	n n	
91 p			54	2	29	73	20	176	10 x x n n n x x n n n	n n
92 k1s		-2 dec. within chart	52	29	71	-2	20	172	1 x x x x n n	
93			52	29	71	20	172	2 x x n n n x x n n n	n n	
94 k1		-2	50	29	71	20	170	3 x x x x	n n	
95			50	29	71	20	170	4 x x n n n x x n n n	n n	
96 k1p		-2	48	2	31	71	20	170	5 x x x x	n n
97	10		48	31	71	20	170	6 x x n n n x x n n n	n n	
98 k1		-2	46	31	71	20	168	7 x x x x	n n	

99				46	31	71		20	168	8	x x n n n x x n n n	n	n
100 k1	71,41 %	-2		44	31	71		20	166	9	x x x x	n	n
101 p				44	2	33	71	20	168	10	x x n n n x x n n n	n	n
102 k1		-2		42	33	71		20	166	1	x x x x n	n	n
103				42	33	71		20	166	2	x x n n n x x n n n	n	n
104 k1		-2		40	33	71		20	164	3	x x x x	n	n
105 p				40	2	35	71	20	166	4	x x n n n x x n n n	n	n
106 k1		-2		38	35	71		20	164	5	x x x x	n	n
107	11			38	35	71		20	164	6	x x n n n x x n n n	n	n
108 k1		-2		36	35	71		20	162	7	x x x x	n	n
109 p				36	2	37	71	20	164	8	x x n n n x x n n n	n	n
110 k1	76,59 %	-2		34	37	71		20	162	9	x x x x	n	n
111				34	37	71		20	162	10	x x n n n x x n n n	n	n
112 k1s		-2 dec. within chart		32	37	69	-2	20	158	1	x x x x	n	[]
113 p				32	2	39	69	20	160	2	x x n n n x x n n n	n	n
114 k1		-2		30	39	69		20	158	3	x x x x	n	n
115				30	39	69		20	158	4	x x n n n x x n n n	n	n
116 k1		-2		28	39	69		20	156	5	x x x x	n	n
117 p	12			28	2	41	69	20	158	6	x x n n n x x n n n	n	n
118 k1		-2		26	41	69		20	156	7	x x x x	n	n
119				26	41	69		20	156	8	x x n n n x x n n n	n	n
120 k1	81,55 %	-2		24	41	69		20	154	9	x x x x	n	n
121 p				24	2	43	69	20	156	10	x x n n n x x n n n	n	n
122 k1		-2		22	43	69		20	154	1	x x x x	n	n
123				22	43	69		20	154	2	x x n n n x x n n n	n	n
124 k1p		-2		20	2	45	69	20	154	3	x x x x	n	n
125				20		45	69	20	154	4	x x n n n x x n n n	n	n
126 k1p		-2		18	2	47	69	20	154	5	x x x x	n	n
127	13	last saw tip		18		47	69	20	154	6	x x n n n x x n n n	n	n
128 k11		-2 first toe dec		16		47	67	-2	20	150	x x x x		13
129				16		47	67	20	150	x x n n n x x n n n			
130 k11	86,35 %	-2		14		47	65	-2	20	146	x x x x		
131				14		47	65	20	146	x x n n n x x n n n			
132 k11		-2		12		47	63	-2	20	142	x x x x		
133				12		47	63	20	142	x x n n n x x n n n			
134 k11		-2		10		47	61	-2	20	138	x x x x		
135				10		47	61	20	138	x x n n n x x n n n			
136 k11		-2		8		47	59	-2	20	134	x x x x		
137				8		47	59	20	134	x x n n n x x n n n			
138 k11		-2		6		47	57	-2	20	130	x x x x		
139				6		47	57	20	130	x x n n n x x n n n			
140 k11	90,63 %	-2		4		47	55	-2	20	126	x x x x		
141				4		47	55	20	126	x x n n n x x n n n			
142 k11		-2 last gusset dec		2		47	53	-2	20	122	x x x x		
143						49	53	20	122	x x n n n x x n n n			
144 k11N	chart ends	-2 dec. Withing band				47	51	-2	12	110	V V I V I V		
145		6 knit sts between toe dec's				47	51		12	110			
146 k11		-2 sole dec.				45	49	-2	12	106			
147						45	49		12	106			
148 k11		-2				43	47	-2	12	102			
149						43	47		12	102			

150 k11	94,11 %	-2		41	45	-2	12	98
151				41	45		12	98
152 k11		-2		39	43	-2	12	94
153				39	43		12	94
154 k11		-2		37	41	-2	12	90
155				37	41		12	90
156 k11		-2		35	39	-2	12	86
157				35	39		12	86
158 k11		-2		33	37	-2	12	82
159				33	37		12	82
160 k11	96,88 %	-2		31	35	-2	12	78
161				31	35		12	78
162 k11		-2		29	33	-2	12	74
163				29	33		12	74
164 k11		-2		27	31	-2	12	70
165				27	31		12	70
166 k11		-2		25	29	-2	12	66
167				25	29		12	66
168 k11		-2		23	27	-2	12	62
169				23	27		12	62
170 k11	99,02 %	-2		21	25	-2	12	58
171				21	25		12	58
172 k11		-2		19	23	-2	12	54
173				19	23		12	54
174 k11		-2		17	21	-2	12	50
175				17	21		12	50
176 k01N	100,00 %	last toe decreases stitching instep to sole		17	19	-2	10	46
177								31774 total sts
			-110			-48		V I V I