



Designed by Kathryn A. White

## What you will need:

AUNT LYDIA'S® Bamboo Crochet Thread, 100% Viscose from Bamboo Size 10: 6 balls of 226 Natural

Susan Bates® Crochet Hook: 1.7 mm [US 5]

Tapestry Needle

**GAUGE:** Rose through Round 5 = 1¼" (3.2 cm) in diameter. **CHECK YOUR GAUGE.** Use any size hook to obtain the gauge given.

AUNT LYDIA'S® Bamboo Crochet Thread, 100% Viscose from Bamboo Size 10, Art. 148 available in 300 yd (276 m) balls



# Wild Rose Shawl

*Delicate and lacy, this beautiful crocheted shawl is perfect for the bride or wedding guest looking for a feminine wrap. For less formal occasions, it's ideal for a relaxed boho approach to dressing.*

SHOP KIT

Shawl measures 64" (162.5cm) long; 19" (48.5 cm) deep

## Special Stitches

**Picot loop:** Ch 5, slip st in 4th ch from hook, ch 6, slip st in 4th ch from hook [2 picots in chain made], ch 2.

**Triple Picot:** Ch 4, slip st in the front loop and the front strand of the last st made, (first picot made), ch 5, slip st in the front loop of the first ch of last picot and in front loop and front strand of the last st made before ch-4, (second picot made), ch 4, slip st in the front loop of the first ch of each of last 2 picots and in front loop and front strand of the last st made before ch-4, (third picot made), slip st around base of Triple Picot just made.

**2-dc cluster:** [Yarn over, insert hook in next st, yarn over and pull up loop, yarn over, draw through 2 loops] twice in same st, yarn over, draw through all 3 loops on hook.

**3-dc cluster:** [Yarn over, insert hook in next st, yarn over and pull up loop, yarn over, draw through 2 loops] 3 times in same st, yarn over, draw through all 4 loops on hook.

**4-dc cluster:** [Yarn over, insert hook in next st, yarn over and pull up loop, yarn over, draw through 2 loops] 4 times in same st, yarn over, draw through all 5 loops on hook.

**4-tr cluster:** [Yarn over (twice), insert hook in next st, yarn over and pull up loop, (yarn over, draw through 2 loops) twice] 4 times in same st, yarn over, draw through all 5 loops on hook.

**Double treble crochet 2 together (dtr2tog):** \*Yarn over (3 times), insert hook in center of next picot loop, yarn over and pull up a loop, [yarn over, draw yarn through 2 loops on hook] 3 times; repeat from \* once, yarn over, draw yarn through 3 loops on hook.

## Pattern Notes

This shawl is made of individual panels, joined together as you work the last round of the

edging. After Panels are joined, an edging is worked across top edge of shawl. Work in your ends as you go or you will have a major job at the end. There are 81 roses required for this shawl. All can be crocheted beforehand or as needed for each panel.

## Wild Rose

Ch 5; join with a slip st in first ch.

**Round 1:** Ch 1, 12 sc in ring; join with a slip st in first sc—12 sc.

**Round 2:** Ch 1, sc in first sc, ch 3, skip next sc, \*sc in next sc, ch 3, skip next sc; repeat from \* around; join with a slip st in first sc—6 ch-3 loops.

**Round 3:** Slip st in first ch-3 space, ch 1, (sc, 5 dc, sc) in each ch-3 space around; join with a slip st in first sc—6 petals.

**Round 4:** Ch 1, working behind petals in Round 3, sc around the post of first sc in Round 2, ch 4, \*sc around the post of next sc in Round 2, ch 4; repeat from \* around; join with a slip st in first sc—6 ch-4 loops.

**Round 5:** Slip st in first ch-4 space, ch 1, (sc, 7 dc, sc) in each ch-4 space around; join with a slip st in first sc—6 petals. Fasten off.

**Note:** Each panel begins at the top.

## Panel 1

Make 1 Wild Rose.

## Panel Edging

**Round 1:** With right side facing, join thread in center dc of any petal in Round 5, ch 1, sc in same dc, work picot loop, \*sc in center dc of next petal, work picot loop; repeat from \* around; join with a slip st in first sc—6 picot loops.

**Round 2:** Ch 6 (counts as dc, ch 4), dc in same sc, ch 5, (tr, ch 5, tr) in center of next picot loop, ch 6, (dc, ch 3, dc) in center of next

Continued...



Above: Detail of panel

picot loop, ch 6, (tr, ch 4, tr) in center of next picot loop, ch 5, (dtr, ch 5, dtr) in next sc, ch 5, (tr, ch 4, tr) in center of next picot loop, ch 6, (dc, ch 3, dc) in center of next picot loop, ch 6, (tr, ch 5, tr) in center of next picot loop, ch 5; join with a slip st in 2nd ch of beginning ch-6—16 ch-spaces.

**Round 3:** Slip st in first ch-4 space, ch 1, 5 sc in same space, 6 sc in next ch-5 space, 7 sc in next ch-5 space, 7 sc in next ch-6 space, 3 sc in next ch-3 space, 6 sc in next ch-6 space, 5 sc in next ch-4 space, 6 sc in next ch-5 space, 7 sc in next ch-5 space, 6 sc in next ch-5 space, 5 sc in next ch-4 space, 6 sc in next ch-6 space, 3 sc in next ch-3 space, 7 sc in next ch-6 space, 7 sc in next ch-5 space, 6 sc in next ch-5 space; join with a slip st in first sc, turn—92 sc. Fasten off. Weave in ends.

**Round 4:** With wrong side facing, join thread with a slip st in 3rd sc of previous round, ch 2, 2-dc cluster in same st, [ch 1, skip next sc, 3-dc cluster in next sc] 5 times, [ch 2, skip next sc, 3-dc cluster in next sc] twice, [ch 1, skip next sc, 3-dc cluster in next sc] 32 times, [ch 2, skip next sc, 3-dc cluster in next sc] twice, [ch 1, skip next sc, 3-dc cluster in next sc] 4 times, ch 1; join with a slip st in first cluster, turn—46 clusters.

**Round 5:** With right side facing, ch 1, sc in first st, 2 sc in each of next 5 ch-1 spaces, 2 sc in next ch-2 space, 3 sc in next cluster, 2 sc in next ch-2 space, [2 sc in each of next 5 ch-1 spaces, sc in next cluster] twice, 2 sc in each of next 6 ch-1 spaces, 3 sc in next cluster, 2 sc in each of next 6 ch-1 spaces, [sc in next cluster, 2 sc in each of next 5 ch-1 spaces] twice, 2 sc in next ch-2 space, 3 sc in next cluster, 2 sc in next ch-2 space, 2 sc in each of next 5 ch-1 spaces; join with a slip st in first sc—106 sc.

**Round 6:** Ch 1, sc in first st, [ch 4, skip next 3 sc, sc in next sc] 3 times, ch 7, skip next 3 sc, sc in next sc, [ch 4, skip next 3 sc, sc in next

sc] 9 times, ch 7, skip next sc, sc in next sc, [ch 4, skip next 3 sc, sc in next sc] 9 times, ch 7, skip next 3 sc, sc in next sc, [ch 4, skip next 3 sc, sc in next sc] twice, ch 4, skip next 3 sc; join with a slip st in first sc—27 ch-spaces.

**Round 7:** Slip st in next ch-4 space, ch 1, 5 sc in same space, 5 sc in each of next 2 ch-4 spaces, (4 sc, ch 3, 4 sc) in next ch-7 space, (3 sc, ch 3, 3 sc) in each of next 4 ch-4 spaces, (3 sc, ch 4, 3 sc) in next ch-4 space, (sc, ch 3, 2 sc, ch 3, sc) in each of next 4 ch-4 spaces, (2 sc, ch 3, 3 sc, triple picot, 2 sc, ch 3, 2 sc) in next ch-7 space, (sc, ch 3, 2 sc, ch 3, sc) in each of next 9 ch-4 spaces, (sc, ch 3, 2 sc, ch 3, 4 sc) in next ch-7 space, 5 sc in each of next 3 ch-4 spaces; join with a slip st in first sc—136 sc and 36 ch-spaces (not including the spaces in the triple picot). Fasten off. Weave in ends.

## Panel 2

Make 2 Wild Roses.

### Panel Edging

**Round 1:** With right side facing, join thread in center dc of any petal in Round 5 of either rose, ch 1, sc in same dc, work picot loop, sc in center dc of next petal, \*work picot loop, sc in center dc of next petal\*; repeat from \* to \* once more, sc in center dc of any petal on 2nd rose; working around 2nd rose; repeat from \* to \* 6 times, working last sc in center dc of first petal already holding 1 sc; working around first rose, repeat from \* to \* 3 times, omitting last sc; join with a slip st in first sc—12 picot loops.

**Round 2:** Ch 6 (counts as dc, ch 4), dc in same sc, ch 5, (tr, ch 5, tr) in center of next picot loop, ch 6, (dc, ch 3, dc) in center of next picot loop ch 6, dtr2tog over next 2 picot loops, (one picot loop is on current rose and the other is on next rose), ch 6, (dc, ch 3, dc) in center of

next picot loop, ch 6, (tr, ch 4, tr) in center of next picot loop, ch 5, (dtr, ch 5, dtr) in next sc, ch 5, (tr, ch 4, tr) in center of next picot loop, ch 6, (dc, ch 3, dc) in center of next picot loop, ch 6, dtr2tog over next 2 picot loops, ch 6, (dc, ch 3, dc) in center of next picot loop, ch 6, (tr, ch 5, tr) in center of next picot loop, ch 5; join with a slip st in 2nd ch of beginning ch-6—22 ch-spaces.

**Round 3:** Slip st in first ch-4 space, ch 1, 5 sc in same space, 6 sc in next ch-5 space, 7 sc in next ch-5 space, 7 sc in next ch-6 space, 3 sc in next ch-3 space, 8 sc in next ch-6 space, sc in space between 2 legs of next dtr2tog, 8 sc in next ch-6 space, 3 sc in next ch-3 space, 6 sc in next ch-6 space, 5 sc in next ch-4 space, 6 sc in next ch-5 space, 7 sc in next ch-5 space, 6 sc in next ch-5 space, 5 sc in next ch-4 space, 6 sc in next ch-6 space, 3 sc in next ch-3 space, 8 sc in next ch-6 space, sc in space between 2 legs of next dtr2tog, 8 sc in next ch-6 space, 3 sc in next ch-3 space, 7 sc in next ch-6 space, 7 sc in next ch-5 space, 6 sc in next ch-5 space; join with a slip st in first sc, turn—132 sc. Fasten off. Weave in ends.

**Round 4:** With wrong side facing, join thread with a slip st in 3rd sc of previous round, ch 2, 2-dc cluster in same st, [ch 1, skip next sc, 3-dc cluster in next sc] 5 times, [ch 2, skip next sc, 3-dc cluster in next sc] twice, [ch 1, skip next sc, 3-dc cluster in next sc] 52 times, [ch 2, skip next sc, 3-dc cluster in next sc] twice, [ch 1, skip next sc, 3-dc cluster in next sc] 4 times, ch 1; join with a slip st in first cluster, turn—66 clusters.

**Round 5:** With right side facing, ch 1, sc in first st, 2 sc in each of next 5 ch-1 spaces, 2 sc in next ch-2 space, 3 sc in next cluster, 2 sc in next ch-2 space, 2 sc in each of next 5 ch-1 spaces, sc in next cluster, 2 sc in each of next 4 ch-1 spaces, sc in next ch-1 space, sc in next cluster, sc in next ch-1 space, 2

Continued...



sc in each of next 4 ch-1 spaces, sc in next cluster, 2 sc in each of next 5 ch-1 spaces, sc in next cluster, 2 sc in each of next 6 ch-1 spaces, 3 sc in next cluster, 2 sc in each of next 6 ch-1 spaces, sc in next cluster, 2 sc in each of next 5 ch-1 spaces, sc in next cluster, 2 sc in each of next 4 ch-1 spaces, sc in next ch-1 space, sc in next cluster, sc in next ch-1 space, 2 sc in each of next 4 ch-1 spaces, sc in next cluster, 2 sc in each of next 5 ch-1 spaces, 2 sc in next ch-2 spaces, 3 sc in next cluster, 2 sc in next ch-2 space, 2 sc in each of next 5 ch-1 spaces; join with a slip st in first sc—146 sc.

**Round 6:** Ch 1, sc in first st, [ch 4, skip next 3 sc, sc in next sc] 3 times, ch 7, skip next 3 sc, sc in next sc, [ch 4, skip next 3 sc, sc in next sc] 14 times, ch 7, skip next sc, sc in next sc, [ch 4, skip next 3 sc, sc in next sc] 14 times, ch 7, skip next 3 sc, sc in next sc, [ch 4, skip next 3 sc, sc in next sc] twice, ch 4, skip next 3 sc; join with a slip st in first sc—37 ch-spaces.

**Round 7:** Slip st in next ch-4 space, ch 1, 5 sc in same space, 5 sc in each of next 2 ch-4 spaces, (4 sc, ch 3, 4 sc) in next ch-7 space, (3 sc, ch 3, 3 sc) in each of next 9 ch-4 spaces, (3 sc, ch 4, 3 sc) in next ch-4 space, (sc, ch 3, 2 sc, ch 3, sc) in each of next 4 ch-4 spaces, (2 sc, ch 3, 3 sc, triple picot, 2 sc, ch 3, 2 sc) in next ch-7 space, (sc, ch 3, 2 sc, ch 3, sc) in each of next 9 ch-4 spaces, (3 sc, ch 2, slip st in corresponding ch-4 space on previous Panel, ch 2, 3 sc) in next ch-4 space, (3 sc, ch 1, slip st in next ch-3 space on previous Panel, ch 1, 3 sc) in each of next 4 ch-4 spaces, (4 sc, ch 1, sc in next ch-3 space on previous Panel, ch 1, 4 sc) in next ch-7 space, 5 sc in each of next 3 ch-4 spaces; join with a slip st in first sc. Fasten off. Weave in ends.

## Panels 3 through 9

**Note:** Directions are given for Panel 3. Changes for Panels 4, 5, 6, 7, 8, and 9 are in parentheses.

Make 3 (4, 5, 6, 7, 8, 9) Wild Roses.

### Panel Edging

**Round 1:** With right side facing, join thread in center dc of any petal in Round 5 of either rose, ch 1, sc in same dc, work picot loop, sc in center dc of next petal, \*work picot loop, sc in center dc of next petal\*; repeat from \* to \* once more, [sc in center dc of any petal on next rose; working around next rose; repeat from \* to \* 3 times] 1 (2, 3, 4, 5, 6, 7) times, sc in center dc of any petal on last rose; repeat from \* to \* 6 times, working last sc in center dc of first petal already holding 1 sc; [working around next rose; repeat from \* to \* 3 times, working last sc in center dc of first petal already holding 1 sc] 1 (2, 3, 4, 5, 6, 7) times, repeat from \* to \* 3 times, omitting last sc; join with a slip st in first sc—18 (24, 30, 36, 42, 48, 54) picot loops.

**Round 2:** Ch 6 (counts as dc, ch 4), dc in same sc, ch 5, (tr, ch 5, tr) in center of next picot loop, ch 6, (dc, ch 3, dc) in center of next picot loop, [ch 6, dtr2tog over next 2 picot loops, ch 6, (dc, ch 3, dc) in center of next picot loop] 2 (3, 4, 5, 6, 7, 8) times, ch 6, (tr, ch 4, tr) in center of next picot loop, ch 5, (dtr, ch 5, dtr) in next sc, ch 5, (tr, ch 4, tr) in center of next picot loop, ch 6, (dc, ch 3, dc) in center of next picot loop, [ch 6, dtr2tog over next 2 picot loops, ch 6, (dc, ch 3, dc) in center of next picot loop] 2 (3, 4, 5, 6, 7, 8) times, ch 6, (tr, ch 5, tr) in center of next picot loop, ch 5; join with a slip st in 2nd ch of beginning ch-6—28 (34, 40, 46, 52, 58, 64) ch-spaces.

**Round 3:** Slip st in first ch-4 space, ch 1, 5 sc in same space, 6 sc in next ch-5 space, 7 sc in next ch-5 space, 7 sc in next ch-6 space,

3 sc in next ch-3 space, [8 sc in next ch-6 space, sc in space between 2 legs of next dtr2tog, 8 sc in next ch-6 space, 3 sc in next ch-3 space] 2 (3, 4, 5, 6, 7, 8) times, 6 sc in next ch-6 space, 5 sc in next ch-4 space, 6 sc in next ch-5 space, 7 sc in next ch-5 space, 6 sc in next ch-5 space, 5 sc in next ch-4 space, 6 sc in next ch-6 space, 3 sc in next ch-3 space, [8 sc in next ch-6 space, sc in space between 2 legs of next dtr2tog, 8 sc in next ch-6 space, 3 sc in next ch-3 space] 2 (3, 4, 5, 6, 7, 8) times, 7 sc in next ch-6 space, 7 sc in next ch-5 space, 6 sc in next ch-5 space; join with a slip st in first sc, turn—172 (212, 252, 292, 332, 372, 412) sc. Fasten off. Weave in ends.

**Round 4:** With wrong side facing, join thread with a slip st in 3rd sc of previous round, ch 2, 2-dc cluster in same st, [ch 1, skip next sc, 3-dc cluster in next sc] 5 times, [ch 2, skip next sc, 3-dc cluster in next sc] twice, [ch 1, skip next sc, 3-dc cluster in next sc] 72 (92, 112, 132, 152, 172, 192) times, [ch 2, skip next sc, 3-dc cluster in next sc] twice, [ch 1, skip next sc, 3-dc cluster in next sc] 4 times, ch 1; join with a slip st in first cluster, turn—86 (106, 126, 146, 166, 186, 206) clusters.

**Round 5:** With right side facing, ch 1, sc in first st, 2 sc in each of next 5 ch-1 spaces, 2 sc in next ch-2 space, 3 sc in next cluster, 2 sc in next ch-2 space, 2 sc in each of next 5 ch-1 spaces, sc in next cluster, [2 sc in each of next 4 ch-1 spaces, sc in next ch-1 space, sc in next cluster, sc in next ch-1 space, 2 sc in each of next 4 ch-1 spaces, sc in next cluster] 2 (3, 4, 5, 6, 7, 8) times, 2 sc in each of next 5 ch-1 spaces, sc in next cluster, 2 sc in each of next 6 ch-1 spaces, 3 sc in next cluster, 2 sc in each of next 6 ch-1 spaces, sc in next cluster, 2 sc in each of next 5 ch-1 spaces, sc in next cluster, [2 sc in each of next 4 ch-1 spaces, sc in next ch-1 space, sc

in next cluster, sc in next ch-1 space, 2 sc in each of next 4 ch-1 spaces, sc in next cluster] 2 (3, 4, 5, 6, 7, 8) times, 2 sc in each of next 5 ch-1 spaces, 2 sc in next ch-2 spaces, 3 sc in next cluster, 2 sc in next ch-2 space, 2 sc in each of next 5 ch-1 spaces; join with a slip st in first sc—186 (226, 266, 306, 346, 386, 426) sc.

**Round 6:** Ch 1, sc in first st, [ch 4, skip next 3 sc, sc in next sc] 3 times, ch 7, skip next 3 sc, sc in next sc, [ch 4, skip next 3 sc, sc in next sc] 19 (24, 29, 34, 39, 44, 49) times, ch 7, skip next sc, sc in next sc, [ch 4, skip next 3 sc, sc in next sc] 19 (24, 29, 34, 39, 44, 49) times, ch 7, skip next 3 sc, sc in next sc, [ch 4, skip next 3 sc, sc in next sc] twice, ch 4, skip next 3 sc; join with a slip st in first sc—47 (57, 67, 77, 87, 97, 107) ch-spaces.

**Round 7:** Slip st in next ch-4 space, ch 1, 5 sc in same space, 5 sc in each of next 2 ch-4 spaces, (4 sc, ch 3, 4 sc) in next ch-7 space, (3 sc, ch 3, 3 sc) in each of next 14 (19, 24, 29, 34, 39, 39) ch-4 spaces, (3 sc, ch 4, 3 sc) in next ch-4 space, (sc, ch 3, 2 sc, ch 3, sc) in each of next 4 (4, 4, 4, 4, 4, 9) ch-4 spaces, (2 sc, ch 3, 3 sc, triple picot, 2 sc, ch 3, 2 sc) in next ch-7 space, (sc, ch 3, 2 sc, ch 3, sc) in each of next 9 ch-4 spaces, (3 sc, ch 2, slip st in corresponding ch-4 space on previous Panel, ch 2, 3 sc) in next ch-4 space, (3 sc, ch 1, slip st in next ch-3 space on previous Panel, ch 1, 3 sc) in each of next 9 (14, 19, 24, 29, 34, 39) ch-4 spaces, (4 sc, ch 1, sc in next ch-3 space on previous Panel, ch 1, 4 sc) in next ch-7 space, 5 sc in each of next 3 ch-4 spaces; join with a slip st in first sc. Fasten off. Weave in ends.

## Panels 10 through 16

Changes for Panels 11, 12, 13, 14, 15, and 16 are in parentheses.

Make 8 (7, 6, 5, 4, 3, 2) Wild Roses.

Continued...

Work same as Panel 8 (7, 6, 5, 4, 3, 2) through Panel Edging Round 6.

**Round 7:** Slip st in next ch-4 space, ch 1, 5 sc in same space, 5 sc in each of next 2 ch-4 spaces, (4 sc, ch 3, 4 sc) in next ch-7 space, (3 sc, ch 3, 3 sc) in each of next 34 (29, 24, 19, 14, 9, 4) ch-4 spaces, (3 sc, ch 4, 3 sc) in next ch-4 space, (sc, ch 3, 2 sc, ch 3, 3 sc) in each of next 9 ch-4 spaces, (2 sc, ch 3, 3 sc, triple picot, slip st around base of triple picot, 2 sc, ch 3, 2 sc) in next ch-7 space, (sc, ch 3, 2 sc, ch 3, sc) in each of next 4 ch-4 spaces, (3 sc, ch 2, slip st in corresponding ch-4 space on previous Panel, ch 2, 3 sc) in next ch-4 space, (3 sc, ch 1, slip st in next ch-3 space on previous Panel, ch 1, 3 sc) in each of next 39 (34, 29, 24, 19, 14, 9) ch-4 spaces, (4 sc, ch 1, sc in next ch-3 space on previous Panel, ch 1, 4 sc) in next ch-7 space, 5 sc in each of next 3 ch-4 spaces; join with a slip st in first sc. Fasten off. Weave in ends.

### Panel 17

Make 1 Wild Rose.

Work same as Panel 1 through Panel Edging Round 6.

**Round 7:** Slip st in next ch-4 space, ch 1, 5 sc in same space, 5 sc in each of next 2 ch-4 spaces, (4 sc, ch 3, 4 sc) in next ch-7 space, (3 sc, ch 3, 3 sc) in each of next 4 ch-4 spaces, (3 sc, ch 4, 3 sc) in next ch-4 space, (sc, ch 3, 2 sc, ch 3, sc) in each of next 4 ch-4 spaces, (2 sc, ch 3, 3 sc, triple picot, 2 sc, ch 3, 2 sc) in next ch-7 space, (sc, ch 3, 2 sc, ch 3, sc) in each of next 4 ch-4 spaces, (3 sc, ch 2, slip st in corresponding ch-4 space on previous Panel, ch 2, 3 sc) in next ch-4

space, (3 sc, ch 1, slip st in next ch-3 space on previous Panel, ch 1, 3 sc) in each of next 4 ch-4 spaces, (4 sc, ch 1, sc in next ch-3 space on previous Panel, ch 1, 4 sc) in next ch-7 space, 5 sc in each of next 3 ch-4 spaces; join with a slip st in first sc. Fasten off. Weave in ends.

### Top Edging

**Row 1:** With wrong side facing, join thread in the 2nd sc from the ch-3 space in corner ch-7 space of Panel 17, working across top of shawl, ch 2, 3-dc cluster in same sc, [ch 3, skip next 4 sc, 4-dc cluster in next sc] 7 times, \*ch 3, 4-tr cluster worked under panel joining, ch 3, skip next sc, 4-dc cluster in next sc, [ch 3, skip next 4 sc, 4-dc cluster in next sc] 7 times; repeat from \* across, turn—152 clusters.

**Row 2:** Ch 1, sc in first cluster, (sc, hdc, dc, hdc, sc) in each ch-3 space across, sc in last cluster—151 shells. Fasten off.

### FINISHING

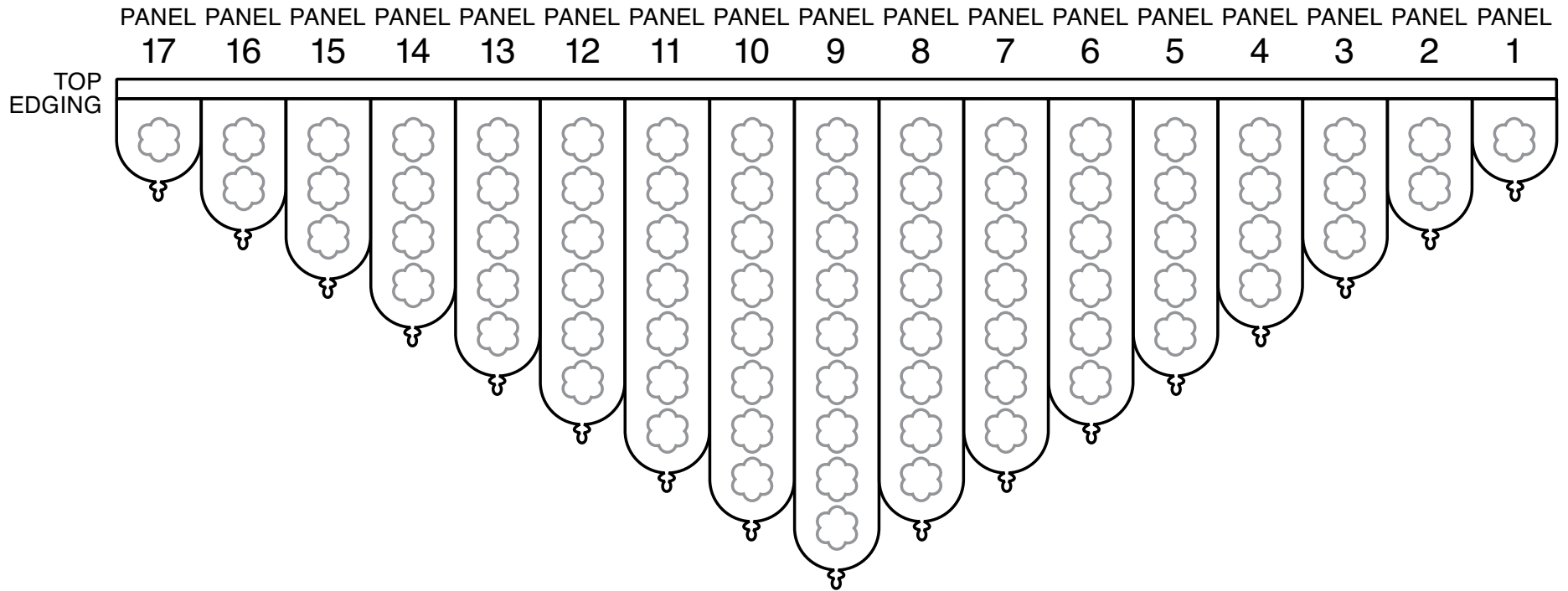
Weave in ends. Block shawl.

### ABBREVIATIONS

**ch** = chain; **dc** = double crochet; **hdc** = half double crochet; **sc** = single crochet; **st(s)** = stitch(es); **tr** = triple crochet; **()** = work directions in parentheses into same st; **[ ]** = work directions in brackets the number of times specified; **\*** = repeat whatever follows the \* as indicated.

See Assembly Diagram on Next page





ASSEMBLY DIAGRAM