**Lone Star Calculation Steps**

**Quilt Name:** Summer Salsa or Spiral Lone Star

<table>
<thead>
<tr>
<th>Step</th>
<th>Calculation</th>
<th>Formula</th>
<th>Result 1</th>
<th>Result 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Total number of diamond units</td>
<td>16, 16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Strip width – cut size (inches)</td>
<td>2”, 2.25” (2 ¼&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Finished size</td>
<td>1.5”, 1.75” (1 ¾&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Number of strips per stripset</td>
<td>4, 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Multiply # 2 x #3</td>
<td>1.5” x 4, 1.75” x 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Total finished length of side or “X” measurement</td>
<td>8.484”, 9.898” (roughly 8-1/2”, 9-7/8&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Width of strip set (from #4 or A)</td>
<td>6”, 7”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Add seam allowance to strip set finished size (from #4 or A)</td>
<td>+ .5, + .5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Unfinished width of strip set (likely the size you’ll draw your blocking cloth)</td>
<td>6.5”, 7.5”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Finished diamond unit height / width (A or B)</td>
<td>6”, 7”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Multiply x 4</td>
<td>24 inches, 28 inches</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Total height / width – 4 diamond units</td>
<td>8.484”, 9.898”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Multiply x 2</td>
<td>16.968”, 19.796”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Total length – 2 units, side measurement</td>
<td>24” + 16.968”, 28” + 19.796”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Add #12 + #15</td>
<td>40.968”, 47.796” (roughly 41”, 47-7/8&quot;)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Optional – FINISHED Border width (one border, without seam allowances)

Multiply x 2 (one border on each side)

Total width of FINISHED quilt top WITH BORDERS
### Lone Star Calculation Steps

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Formula/Calculation</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Total number of diamond units</td>
<td></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td>2</td>
<td>Strip width – cut size (inches)</td>
<td><strong>2.5” (2 ½”)</strong></td>
<td><strong>3”</strong></td>
</tr>
<tr>
<td>3</td>
<td>Finished size</td>
<td></td>
<td><strong>2”</strong></td>
</tr>
<tr>
<td>4</td>
<td>Number of strips per stripset</td>
<td></td>
<td><strong>4</strong></td>
</tr>
<tr>
<td>5</td>
<td>Multiply # 2 x #3</td>
<td><strong>2 X 4</strong></td>
<td><strong>8”</strong></td>
</tr>
<tr>
<td>6</td>
<td>TOTAL FINISHED LENGTH OF SIDE OR “X” MEASUREMENT (B)</td>
<td><strong>11.312”</strong></td>
<td><strong>14.14”</strong></td>
</tr>
<tr>
<td>7</td>
<td>WIDTH of STRIP SET (from #4 or A)</td>
<td><strong>8”</strong></td>
<td><strong>10”</strong></td>
</tr>
<tr>
<td>8</td>
<td>Add seam allowance to strip set finished size (#4 or A)</td>
<td>+ .5</td>
<td><strong>+.5</strong></td>
</tr>
<tr>
<td>9</td>
<td>UNFINISHED WIDTH of STRIP SET (likely the size you’ll draw your blocking cloth)</td>
<td><strong>8.5”</strong></td>
<td><strong>14.64”</strong></td>
</tr>
<tr>
<td>10</td>
<td>FINISHED DIAMOND UNIT HEIGHT / WIDTH (#4 or A)</td>
<td><strong>8”</strong></td>
<td><strong>10”</strong></td>
</tr>
<tr>
<td>11</td>
<td>Multiply x 4</td>
<td><strong>X 4</strong></td>
<td><strong>X 4</strong></td>
</tr>
<tr>
<td>12</td>
<td>Total height / width – 4 diamond unit s</td>
<td><strong>32 inches</strong></td>
<td><strong>40 inches</strong></td>
</tr>
<tr>
<td>13</td>
<td>TOTAL FINISHED LENGTH OF SIDE (#6 or B)</td>
<td><strong>11.312”</strong></td>
<td><strong>14.14”</strong></td>
</tr>
<tr>
<td>14</td>
<td>Multiply x 2</td>
<td><strong>X 2</strong></td>
<td><strong>X 2</strong></td>
</tr>
<tr>
<td>15</td>
<td>Total length – 2 units, side measurement</td>
<td><strong>22.624”</strong></td>
<td><strong>28.28”</strong></td>
</tr>
<tr>
<td>16</td>
<td>ADD #12 + #15</td>
<td><strong>32” + 22.624”</strong></td>
<td><strong>40” + 28.28”</strong></td>
</tr>
<tr>
<td>17</td>
<td>TOTAL WIDTH OF STAR QUILT TOP WITHOUT BORDERS</td>
<td><strong>54.624”</strong></td>
<td><strong>68.28”</strong></td>
</tr>
<tr>
<td>18</td>
<td>Optional – FINISHED Border width (one border, without seam allowances)</td>
<td><strong>3”</strong></td>
<td><strong>3”</strong></td>
</tr>
<tr>
<td>19</td>
<td>Multiply x 2 (one border on each side)</td>
<td><strong>X 2</strong></td>
<td><strong>X 2</strong></td>
</tr>
<tr>
<td>20</td>
<td>TOTAL WIDTH OF BORDERS</td>
<td><strong>6”</strong></td>
<td><strong>6”</strong></td>
</tr>
<tr>
<td>21</td>
<td>Add the quilt top width (#17) plus border width (# 20)</td>
<td><strong>54.624” + 6”</strong></td>
<td><strong>60.624”</strong></td>
</tr>
<tr>
<td>22</td>
<td>Total width of FINISHED quilt top WITH BORDERS</td>
<td><strong>60.624”</strong></td>
<td><strong>60.624”</strong></td>
</tr>
</tbody>
</table>

**Quilt Name:** Summer Salsa or Spiral Lone Star
### Lone Star Calculation Steps

<table>
<thead>
<tr>
<th>Quilt Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total number of diamond units</strong></td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
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<tr>
<td>8</td>
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<tr>
<td>9</td>
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<tr>
<td>10</td>
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<tr>
<td>11</td>
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<tr>
<td>12</td>
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<tr>
<td>13</td>
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<tr>
<td>14</td>
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<tr>
<td>15</td>
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<tr>
<td>17</td>
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<tr>
<td>18</td>
</tr>
<tr>
<td>19</td>
</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>21</td>
</tr>
<tr>
<td>22</td>
</tr>
</tbody>
</table>
Lone Star Calculation Steps

Cut strip width = 2.5" / Finished strip width = 2"
2.5" - .5" seam allowance = 2" finished width each strip
4 rows x 2" = 8" (A) (width of one diamond unit)

8" (width of one diamond unit)
X 1.414 (calculation for length of angled side)

11.312 (or slightly larger than 11 1/4") - (B)

4 x (A) 8" = 32"
2 x (B) 11.312" = 22.624"

32" + 22.624" = 54.624" width of quilt without borders
Lone Star Calculation Steps

1 diamond unit = 4 x 4 rows of single diamonds

2.25" Cut strip width (2 1/4")
-.5" seam allowance
1.75" finished strip width / finished row of single diamonds

1.75" finished strip width
x 4 rows of single diamonds

7" (finished width of 1 diamond unit)

7.0" (finished width of 1 diamond unit)
X 1.414 (calculation for length of angled side)
9.898" (finished square – approx. 9 7/8")

4 x 7" = 28" (diamond units across width of quilt, above)
2 x 9.898" = 19.796" (squares across width of quilt)

28" + 19.796" = 47.796" width of quilt top without borders

47.796" = approx. 47 3/4" width of quilt top without borders
Lone Star Calculation Steps

4x4 Lone Star / Rolling Star design layout with 2-1/2" strips

1 diamond unit = 4 x 4 rows of single diamonds
2.5" Cut strip width
-.5" seam allowance
2" finished strip width / finished row of single diamonds
2" finished strip width
X 4 rows of single diamonds
8" (finished width of 1 diamond unit)

8.0" (finished width of 1 diamond unit)
X 1.414 (calculation for length of angled side)
11.312" (finished square)

4 x 8" = 32" (diamond units across width of quilt, above)
2 x 11.312" = 22.624" (squares across width of quilt)
32" + 22.624" = 54.624" width of quilt top without borders

54.624" = approximately 54 5/8" width of quilt top without borders
Lone Star Calculation Steps

4x4 Lone Star / Rolling Star design layout with ____ strips

---

1 diamond unit = 4 x 4 rows of single diamonds

- Cut strip width (____")
- .5" seam allowance
- ____" finished strip width / finished row of single diamonds
- ____" finished strip width
- ____ x 4 rows of single diamonds
- ____" (finished width of 1 diamond unit)

—

— (finished width of 1 diamond unit)

X 1.414 (calculation for length of angled side)

— (finished square - approx. ____")

4 x____" = ____" (diamond units across width of quilt, above)
2 x ____" = ____" (squares across width of quilt)

____" + _____" = ____" width of quilt top without borders

____" = approx. ____" width of quilt top without borders
6 x 6 Broken Star

Divisions show the measurement units – using the original chart, figure the size of the diamond units.

4 x A + 4 x B = approximate size of the finished quilt
Large LeMoyne Star / Lone Star
8 x 8 layout

Strips cut 2" wide; finished size: 1.5"

1 diamond unit – 8 x 1.5" = 12"
12" x 1.414 = 16.968"

A = 12"  B = 16.968"

16.968" + 12" + 12" + 16.968" = 57.936" or roughly 57 15/16"
Lone Star Calculation Steps

Two 4x4 Lone Star design mockups
5x5 Lone Star design mockup
One quarter of a large quilt design shown. Place mirrors at the * to view the entire design, or make 4 copies of this design, and tape together to form a complete design.

Open Star designs are a great way to feature appliqué or fancy quilting patterns in the open areas surrounding the diamond pieced work.

For Lone Star Design, the diamond shapes on this drawing may be photocopied, enlarged, cut apart to make other design mockup shapes. You may cut away excess rows to make any size you need – such as 5x5, 6x6, 7x7, 8x8 or 9x9 variations.