

# OPTICS

Designed by Robert Kaufman Fabrics  
[www.robertkaufman.com](http://www.robertkaufman.com)

Featuring

**OPTICAL ILLUSION**



Finished quilt measures: 64" x 80"

Quilt shown in "COOL" colorstory. For alternate "WARM" colorstory see page 6.

**Pattern Level: Confident Beginner**

*"I have basic block construction down  
and would like to learn a new trick!"*

For questions about this pattern, please email [Patterns@RobertKaufman.com](mailto:Patterns@RobertKaufman.com).

**ROBERT KAUFMAN**  
F A B R I C S

## Fabric and Supplies Needed

Fabric amounts based on yardage that is 42" wide.

Color	Fabric	Name/SKU	Yardage	Color	Fabric	Name/SKU	Yardage
	A	AMD-16139-237 BERMUDA	1/2 yard		D	AMD-7000-72 COBALT	2-7/8 yards
	B	AMD-16142-237 BERMUDA	1/2 yard		E	AMD-16141-237 BERMUDA	3/4 yard
	C	AMD-7000-65 POWDER	2-1/3 yards		F	AMD-16140-237 BERMUDA *includes binding	1-1/4 yard
Copyright 2017, Robert Kaufman For individual use only - Not for resale				You will also need: 5 yards for backing			

## Notes Before You Begin

- Read through all of the instructions before beginning.
- All of the seam allowances are 1/4" unless otherwise noted.
- Press seam allowances open unless otherwise noted.
- Width of fabric (WOF) is equal to at least 42" wide.
- Right sides together has been abbreviated to RST.
- Remember to measure twice and cut once!

## Cutting Instructions

### From each of Fabrics A and B, cut:

three 4-1/2" x WOF strips. Subcut:  
twenty 4-1/2" squares

### From Fabric C, cut:

five 5-1/4" x WOF strips. Subcut:  
forty 5-1/4" squares. Cut each square in half along both diagonals, creating four triangles each.

five 9-1/2" x WOF strips. Subcut:  
twenty 9-1/2" squares for the QSTs

**From Fabric D, cut:**

ten 4-7/8" x WOF strips. Subcut:

eighty 4-7/8" squares. Cut each square in half once along a diagonal, creating two triangles each.

five 9-1/2" x WOF strips. Subcut:

twenty 9-1/2" squares for the QSTs

**From each of Fabrics E and F, cut:**

twenty 5-1/2" circles using Template 1 or your preferred circle cutting method.

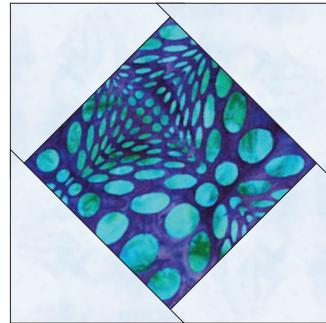
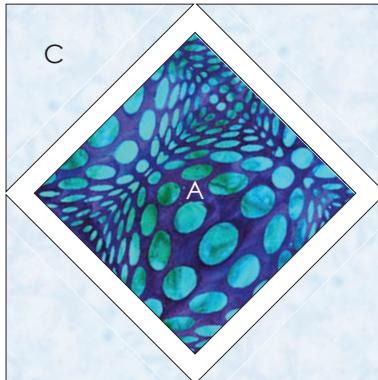
Note: these sizes reflect raw edge appliquéd. If you choose to use needle turn appliquéd, use Template 2 or cut a 6" diameter circle.

**From Fabric F, cut:**

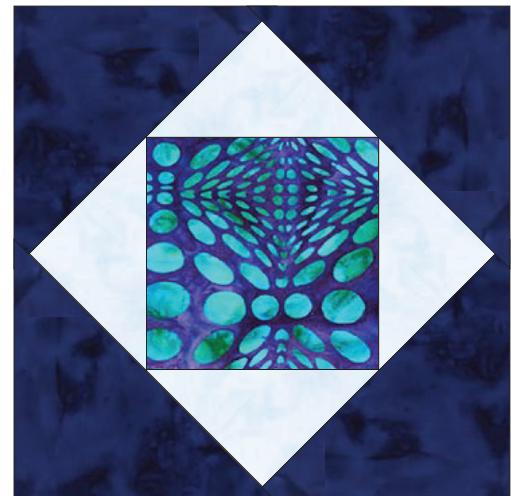
eight 2-1/2" x WOF strips for the binding

### Assemble the Square in a Square (SIAS) Blocks

**Step 1:** Sew a Fabric C triangle to opposite sides of a 4-1/2" Fabric A square. Press seam allowances toward the triangles. Repeat on remaining sides of the Fabric A square. Trim to 6-1/8" square, if necessary.



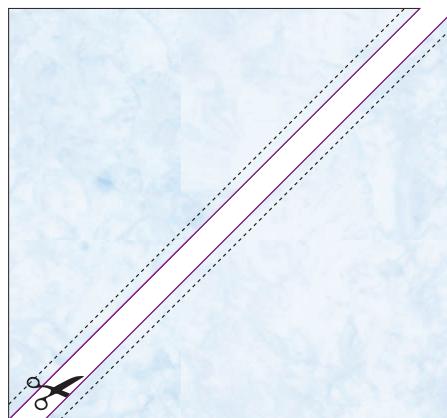
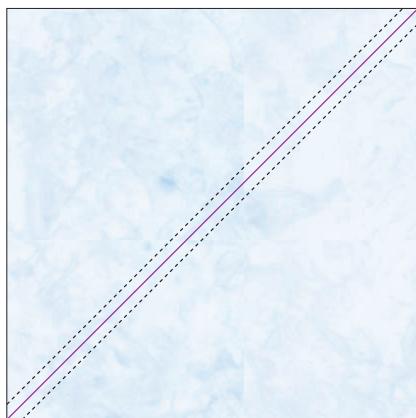
**Step 2:** Sew a Fabric D triangle to opposite sides of the assembled Step 1 unit. Press seam allowances toward the triangles. Repeat on remaining sides of the unit. Trim the SIAS block to 8-1/2" square.



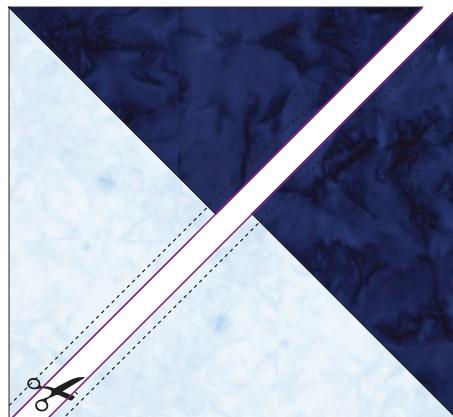
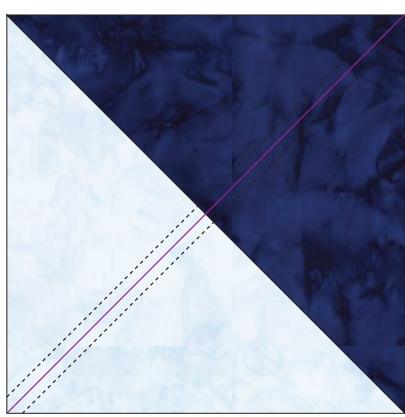
Repeat Steps 1 and 2 for all 4-1/2" Fabric A and B squares to create twenty SIAS A Blocks and twenty SIAS B Blocks.

## Assemble the Quarter Square Triangle (QST) Blocks

**Step 3:** Pair a 9-1/2" Fabric C square with a 9-1/2" Fabric D square, RST. Mark a diagonal line on the wrong side of one square. Sew 1/4" away from both sides of the marked line. Cut on the marked line, creating two half-square triangles (HSTs). Press toward the darker fabric.

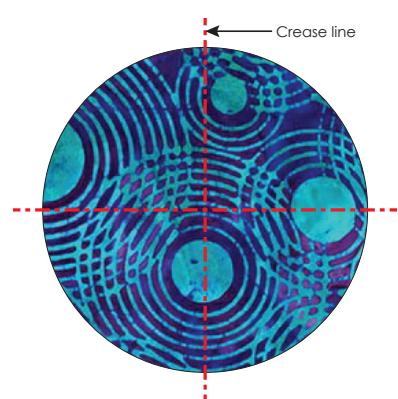


**Step 4:** Pair two Step 3 HSTs, RST, matching opposite fabrics together. Mark a diagonal line perpendicular to the seam line on the wrong side of one square. Sew 1/4" away from both sides of the marked line. Cut on the marked line, creating two quarter-square triangles (QSTs). Press toward the seam open or to one side. Trim to 8-1/2" square.



Repeat Steps 3 and 4 for all 9-1/2" Fabric C and D squares to create forty QST units.

**Step 5:** Fold and press each Fabric E and F circle in half along the length and width to press creases along the quarters.



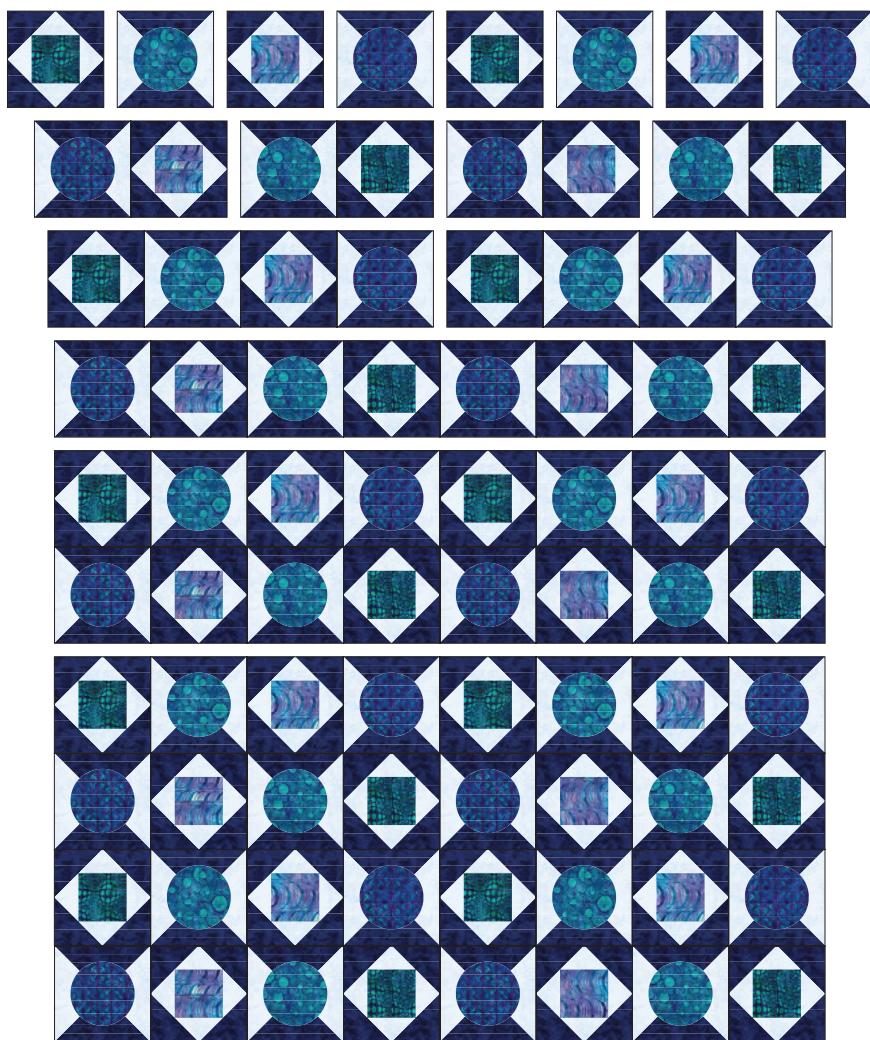
**Step 6:** Place one Fabric E circle right side up on a QST unit, aligning the creases in the circle with the seams in the QST. Appliquéd the circle to the QST using your preferred raw edge appliquéd method, such as a small zig zag stitch or blanket stitch.

Note: Alternately, if using Template 2, use needle turn appliquéd to stitch the circle to the unit, hiding the raw edges.

Repeat Steps 5 and 6 for all Fabric E and F circles to create forty QST units.



### Sewing Blocks to Form Rows



**Step 7:** Arrange the blocks into ten rows of eight blocks. Note the fabric placement and block orientation in the Quilt Assembly Diagram.

**Step 8:** Sew the blocks together to form rows. Press the rows to the left in the odd numbered rows and to the right in the even numbered rows.

**Step 9:** Sew the rows together to form the quilt center. Press the row seams open.

Your quilt top is complete! Baste, quilt, bind and enjoy!

## OPTICS - Warm Colorstory

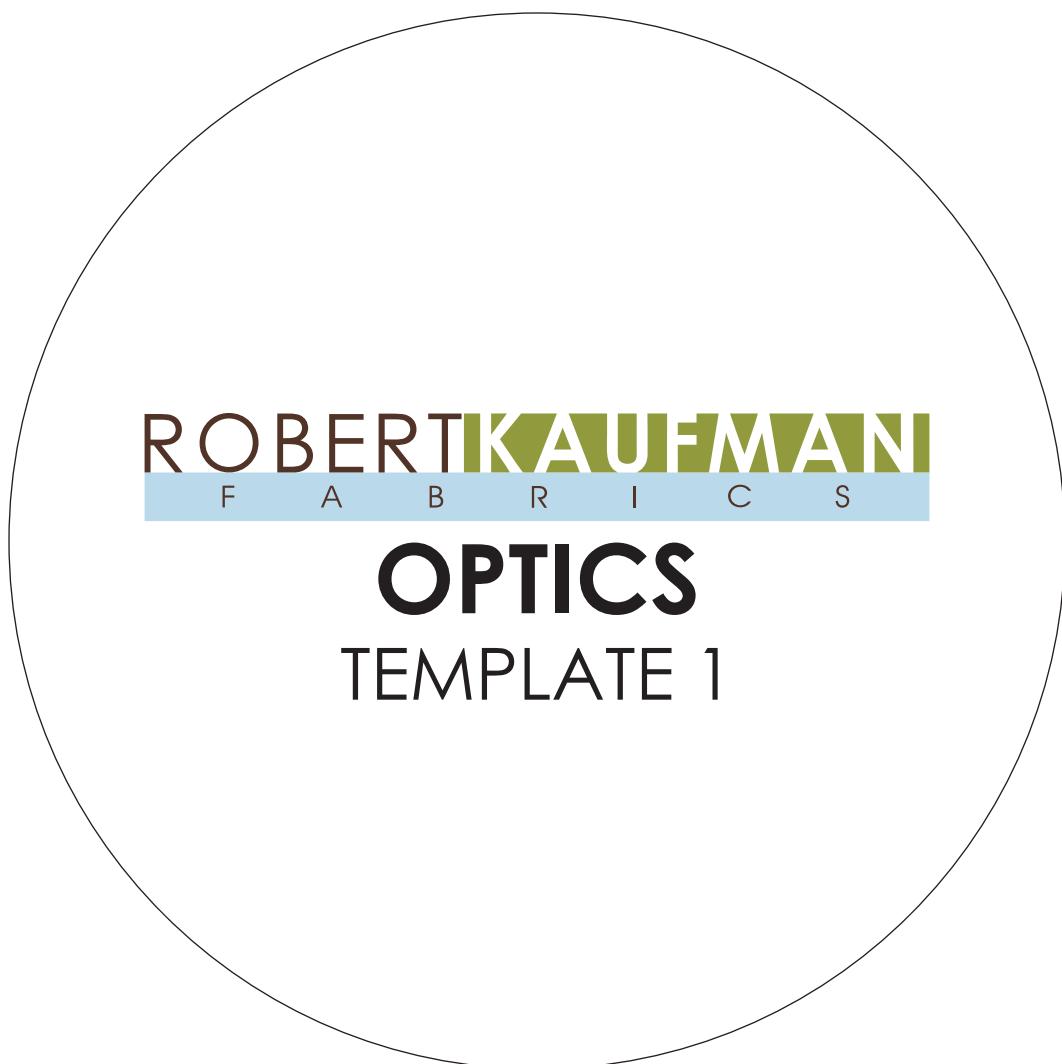


### Fabric and Supplies Needed

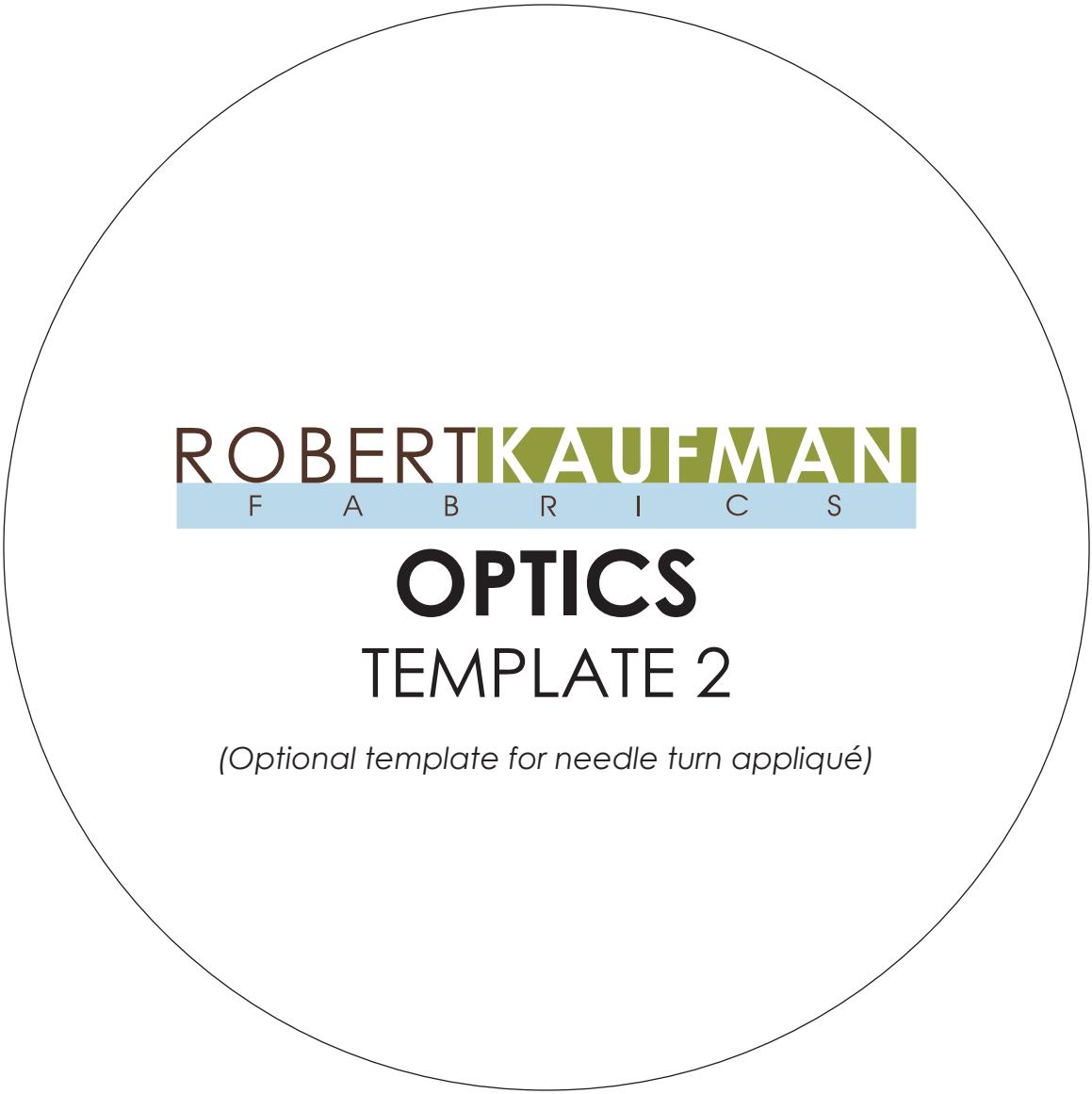
Fabric amounts based on yardage that is 42" wide.

Color	Fabric	Name/SKU	Yardage	Color	Fabric	Name/SKU	Yardage
	A	AMD-16140-195 BRIGHT	1/2 yard		D	AMD-7000-96 BLUSH	2-7/8 yards
	B	AMD-16141-195 BRIGHT	1/2 yard		E	AMD-16142-195 BRIGHT	3/4 yard
	C	AMD-7000-118 RUBY	2-1/3 yards		F	AMD-16139-195 BRIGHT <small>*includes binding</small>	1-1/4 yard
Copyright 2017, Robert Kaufman For individual use only - Not for resale				You will also need: 5 yards for backing			

Print at 100%.



1" box for  
scale



**ROBERT KAUFMAN**

F A B R I C S

# OPTICS

## TEMPLATE 2

(Optional template for needle turn appliqué)

1" box for  
scale