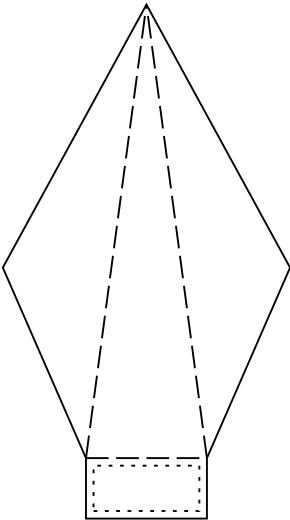


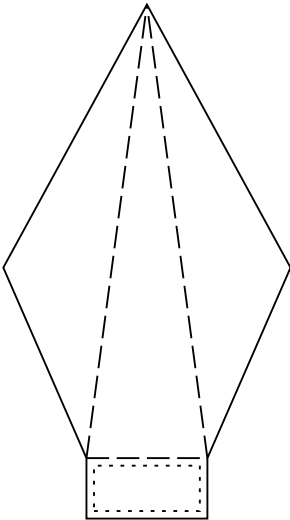
Tiered Cupped Lotus

lotus / 1.0.0 / Letter / Template page 1

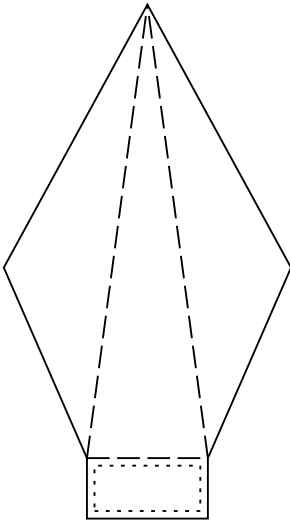
O2 | cut 1
38.00 x 68.00 mm



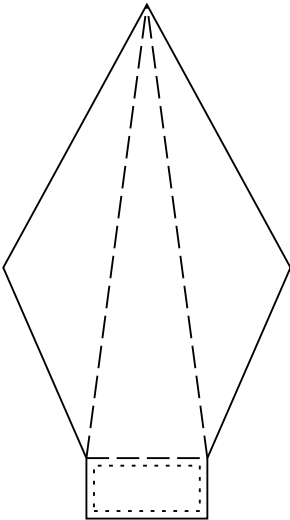
O3 | cut 1
38.00 x 68.00 mm



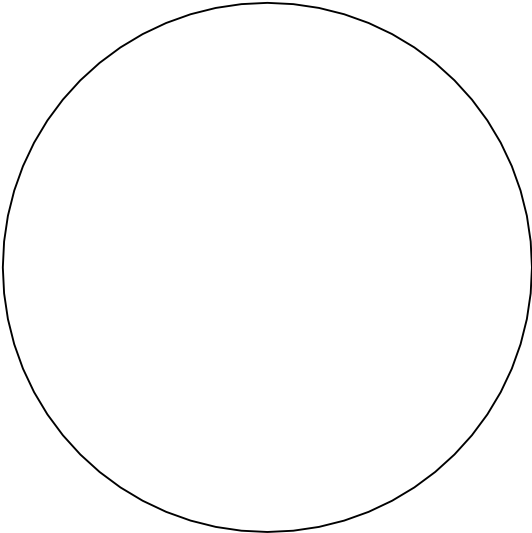
O4 | cut 1
38.00 x 68.00 mm



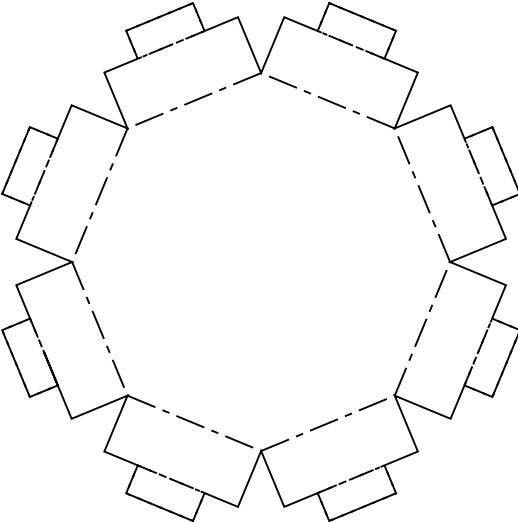
O5 | cut 1
38.00 x 68.00 mm



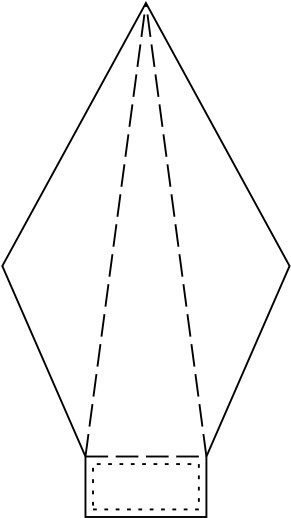
B | cut 1
70.00 x 70.00 mm



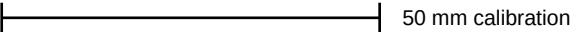
R | cut 1
68.51 x 68.51 mm



O1 | cut 1
38.00 x 68.00 mm



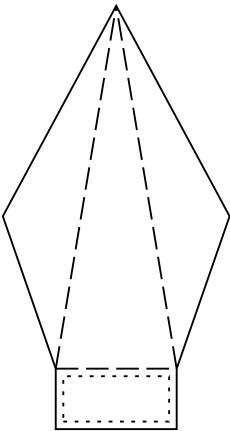
Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



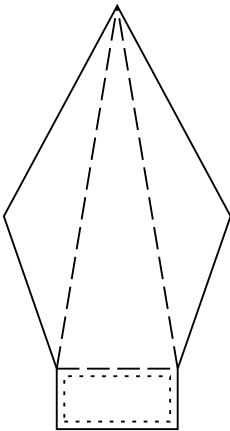
Tiered Cupped Lotus

lotus / 1.0.0 / Letter / Template page 2

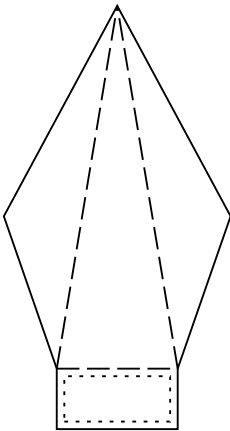
I6 | cut 1
30.00 x 56.00 mm



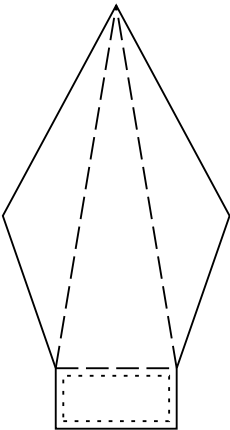
I7 | cut 1
30.00 x 56.00 mm



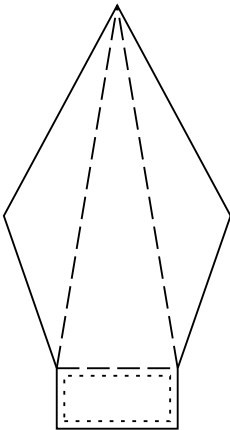
I8 | cut 1
30.00 x 56.00 mm



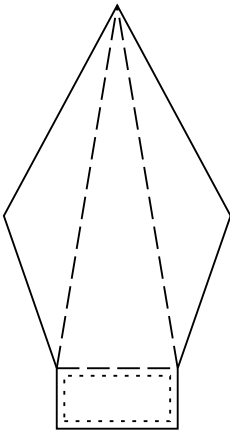
I1 | cut 1
30.00 x 56.00 mm



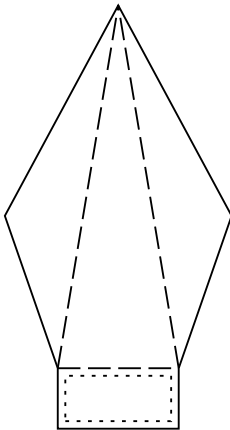
I2 | cut 1
30.00 x 56.00 mm



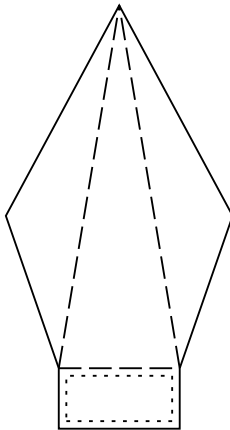
I3 | cut 1
30.00 x 56.00 mm



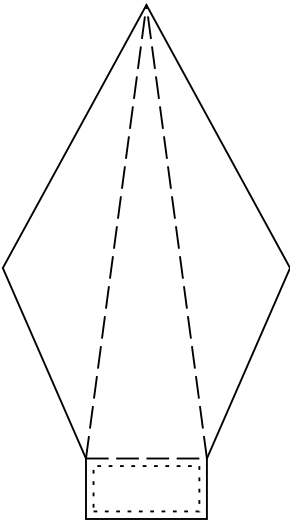
I4 | cut 1
30.00 x 56.00 mm



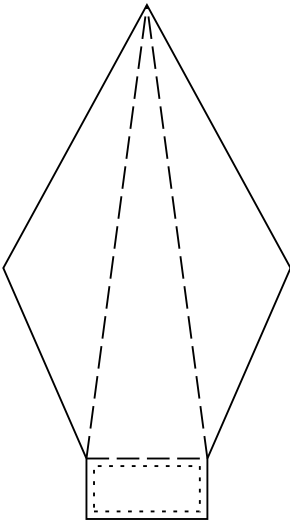
I5 | cut 1
30.00 x 56.00 mm



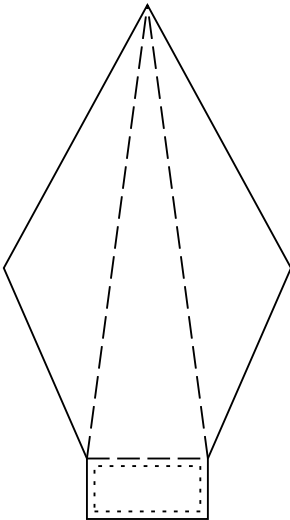
O6 | cut 1
38.00 x 68.00 mm



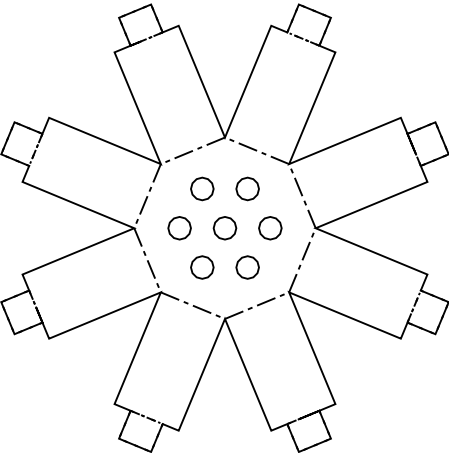
O7 | cut 1
38.00 x 68.00 mm



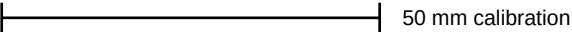
O8 | cut 1
38.00 x 68.00 mm



S | cut 1
59.20 x 59.20 mm



Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



Print at 100% / Actual size. Do not fit to page. Original paper craft template.

Tiered Cupped Lotus

lotus / 1.0.0 / Letter / Assembly instructions

Finished size: 175 x 175 x 50 mm approximately; 70 mm foundation diameter

Materials: 160-180 gsm colored paper; Scissors; Craft knife and cutting mat for seed holes; Ruler and blunt scoring tool; Protractor; PVA glue and tweezers

Original faceted interpretation of a lotus, not a smooth botanical surface. Every petal is one cut piece with a root tab and two hinged shoulders.

All shaped faces have exact nonstretch flat correspondence. Zero paper thickness is modeled: glued contact faces coincide; actual stock and glue add small offsets.

Riser and seedpod are open-bottom crowns with unglued vertical butt seams; their tops and glued feet hold the walls. No hidden supports or floating tiers.

Automated validation is not a collision or foldability proof. PDF screen review, multi-angle 3D review and physical printing/cutting/assembly remain pending.

Do not round or stretch the petals. The preview uses final folded states, not continuous folding simulation.

Part inventory (cut each instance once):

B: Foundation disk

R: Tier riser

O1: Pointed outer petal

O2: Pointed outer petal

O3: Pointed outer petal

O4: Pointed outer petal

O5: Pointed outer petal

O6: Pointed outer petal

O7: Pointed outer petal

O8: Pointed outer petal

I1: Pointed inner petal

I2: Pointed inner petal

I3: Pointed inner petal

I4: Pointed inner petal

I5: Pointed inner petal

I6: Pointed inner petal

I7: Pointed inner petal

I8: Pointed inner petal

S: Perforated seedpod

Tiered Cupped Lotus

lotus / 1.0.0 / Letter / Assembly instructions continued

1. Prepare the foundation [B]: Print at 100 percent; check the 50 mm ruler. Cut the 70 mm foundation disk. Lightly pencil its center and eight radial guides at 45 degree spacing, starting to the right.
2. Fold and secure the riser [R]: Cut R and score all marked folds. With top face up, fold eight walls DOWN 90 degrees, then all narrow 4 mm feet inward 90 degrees. Brush glue on the UNDERSIDES of all eight feet. Center R on B, with one top vertex pointing right. Its top is 8 mm above B. Press through the open bottom before positioning; hold the crown down gently and let dry. Wall edges meet without overlap or extra tabs.
3. Shape outer petals [O1, O2, O3, O4, O5, O6, O7, O8]: Cut O1-O8. Keep each 16 x 8 mm root tab flat. Raise the triangular keel 25 degrees above its tab. Valley-fold both diagonal shoulders upward 28 degrees relative to the keel (152 degree inside dihedral). The shared pointed tip stays on the keel; do not curl or stretch.
4. Attach outer ring [O1, O2, O3, O4, O5, O6, O7, O8]: Apply glue to the underside of each marked 14 x 6 mm root patch. Place O1-O8 counterclockwise at 45 degree intervals on B, tips pointing radially outward; O1 points right. Each root crease is 33 mm from center, with the 8 mm tab pointing inward, spanning radial coordinates 25-33 mm. Tabs sit outside the riser walls. Attach opposite pairs and dry fully.
5. Shape and attach inner ring [I1, I2, I3, I4, I5, I6, I7, I8]: Cut I1-I8. Fold each keel UP 60 degrees from the horizontal root tab and each shoulder UP 28 degrees from the keel. Glue only the underside 14 x 6 mm marked patch. Place tabs on the riser TOP at z=8 mm, with root creases 22 mm from center and tabs spanning radii 14-22 mm. Stagger I1 by 22.5 degrees from O1; space remaining petals 45 degrees apart. Tips point outward and up. Dry opposite pairs before proceeding.
6. Fold the seedpod [S]: Cut S and carefully remove all seven 3 mm seed holes while flat. Score folds. Fold its eight 16 mm walls down 90 degrees and eight narrow 4 mm feet inward 90 degrees, forming an open-bottom octagonal seedpod. The top stays flat; wall edges are butt joints, not overlapping seams.
7. Mount and cure [S]: Brush glue on the UNDERSIDES of all eight seedpod feet. Center S on the riser top, one vertex pointing right, clear of the inner tabs whose inner ends start at radius 14 mm. S has a 12 mm vertex radius and its top finishes 24 mm above B. Press gently with tweezers before the glue sets and leave upright until dry. Check all roots, feet and the 8 mm riser remain attached; physical test is still required.