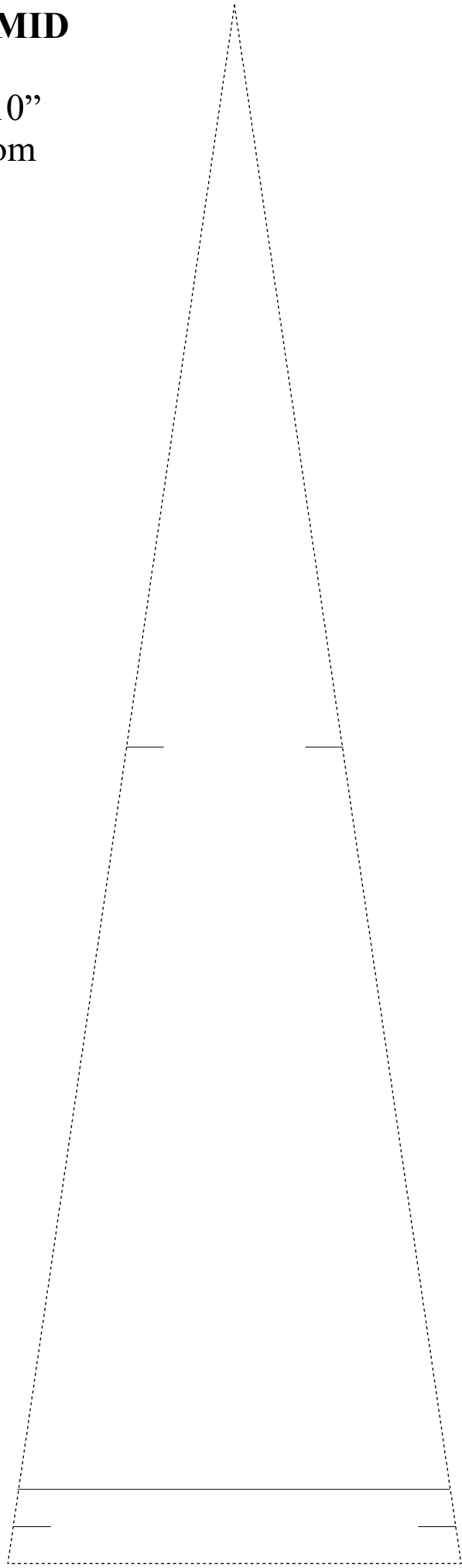


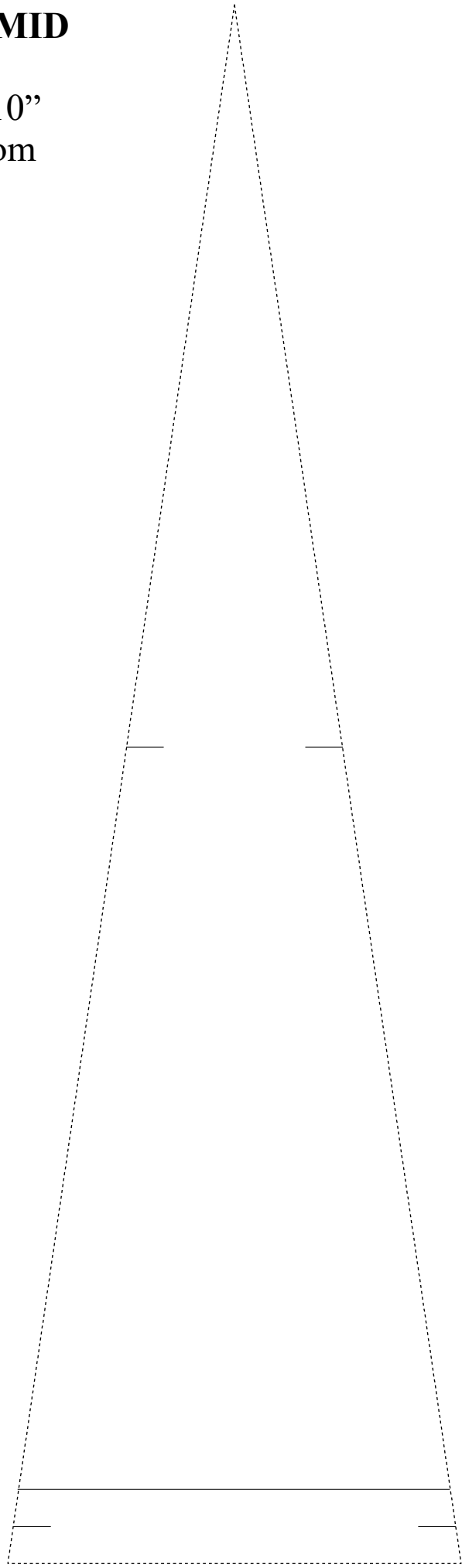
LAW OF ONE PYRAMID

felipephotons.com :)
face width 2.9" height 10"
plus .5" flap at the bottom



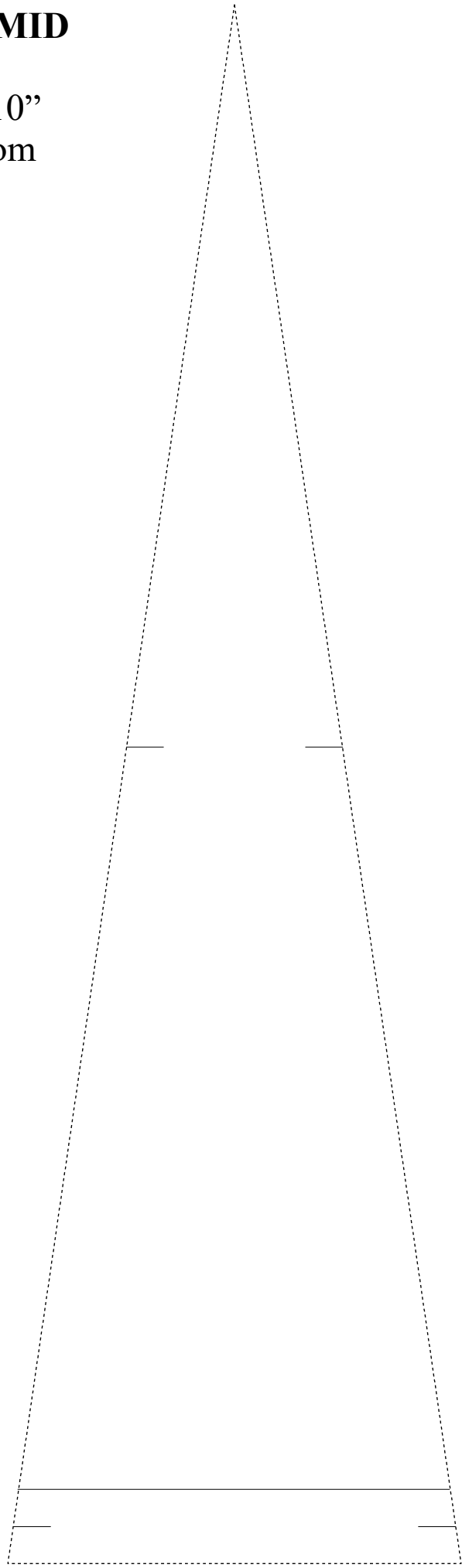
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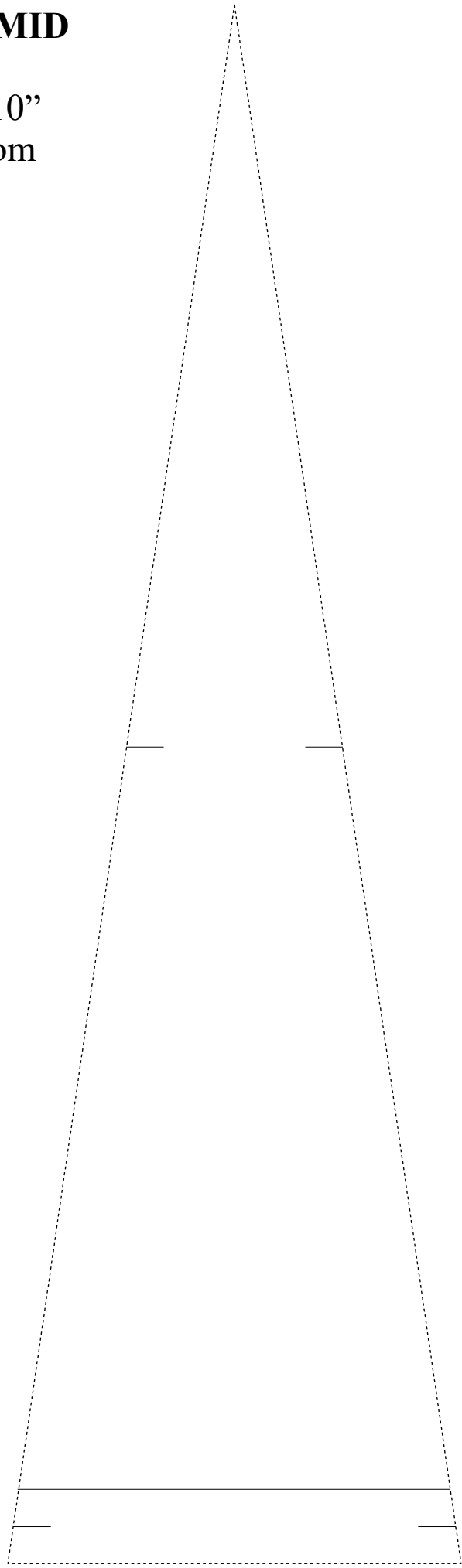
LAW OF ONE PYRAMID

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face width 2.9" height 10"
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LAW OF ONE PYRAMID

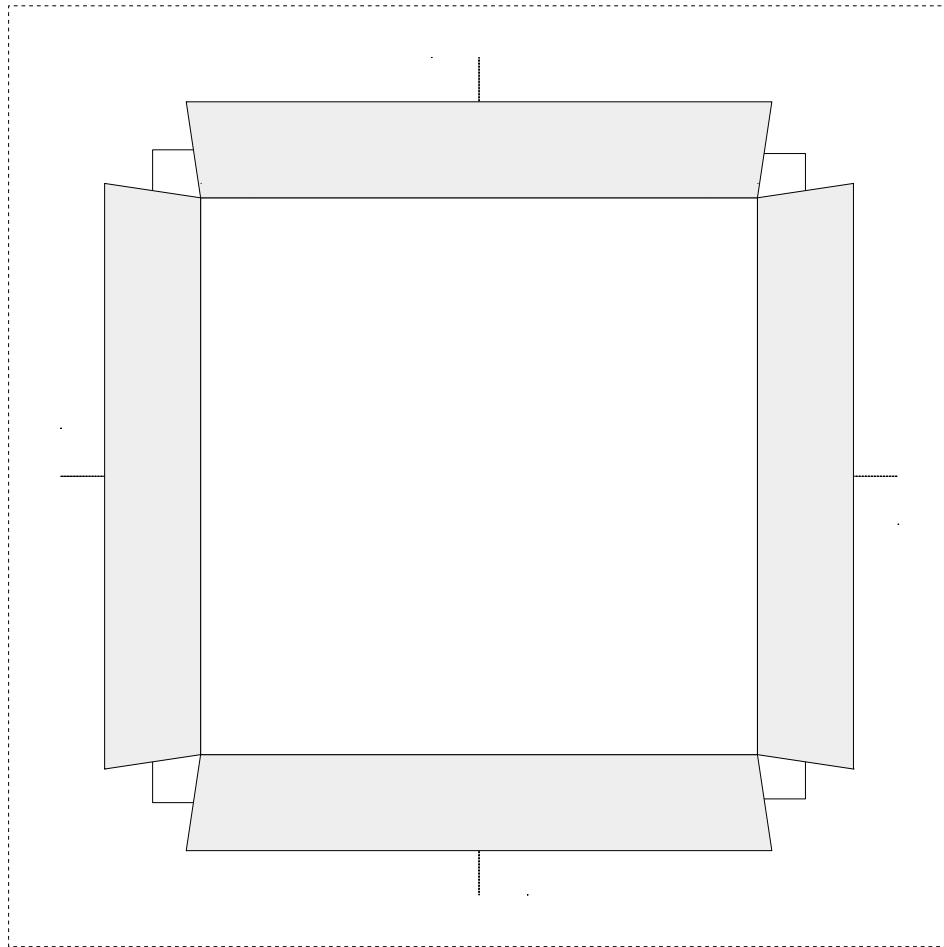
felipephotons.com :)
face width 2.9" height 10"
plus .5" flap at the bottom



LAW OF ONE PYRAMID

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inner square 2.9" outer square 4.9"



Assembly Instructions

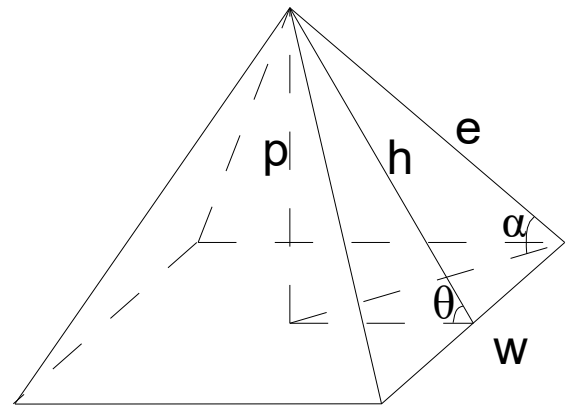
Cut all shapes along dashed lines only. Fold and unfold the bottom flap of each pyramid face (the long solid line) to create a crease. Use long pieces of tape to tape the long sides of the pyramid faces together. Use tick marks to align pieces. Make sure the tape ends up on the outside of the pyramid (this guarantees the last edge will be taped completely and there are no “cracks” for the energy to leak out). Tape each of the pyramid flaps to the corresponding shaded areas on the base.

LAW OF ONE PYRAMID

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VARIABLES & GENERAL FORMULAS

p = height of the pyramid
 w = length of the base of the pyramid
 h = height of the face of the pyramid
 e = long edge
 θ = pyramid face slope angle
 α = long edge slope angle



You can derive all of the formulas below by starting with these general formulas:

$$\begin{aligned} \tan \theta &= p / (w/2) & \sin \theta &= p/h & \cos \theta &= (w/2)/h \\ \tan \alpha &= p / ((w/2) * \sqrt{2}) & \sin \alpha &= p/e & \cos \alpha &= ((w/2) * \sqrt{2})/e \end{aligned}$$

GIVEN

$4w = 1.16p$. According to the Law of One 57.21 to 57.23.

FINDING THE SLOPE ANGLE

$$\begin{aligned} \tan \theta &= p / (w/2) = (4w/1.16) / (w/2) = (8/1.16) \\ \theta &= \text{atan}(8/1.16) = 81.749613^\circ \end{aligned}$$

FORMULAS

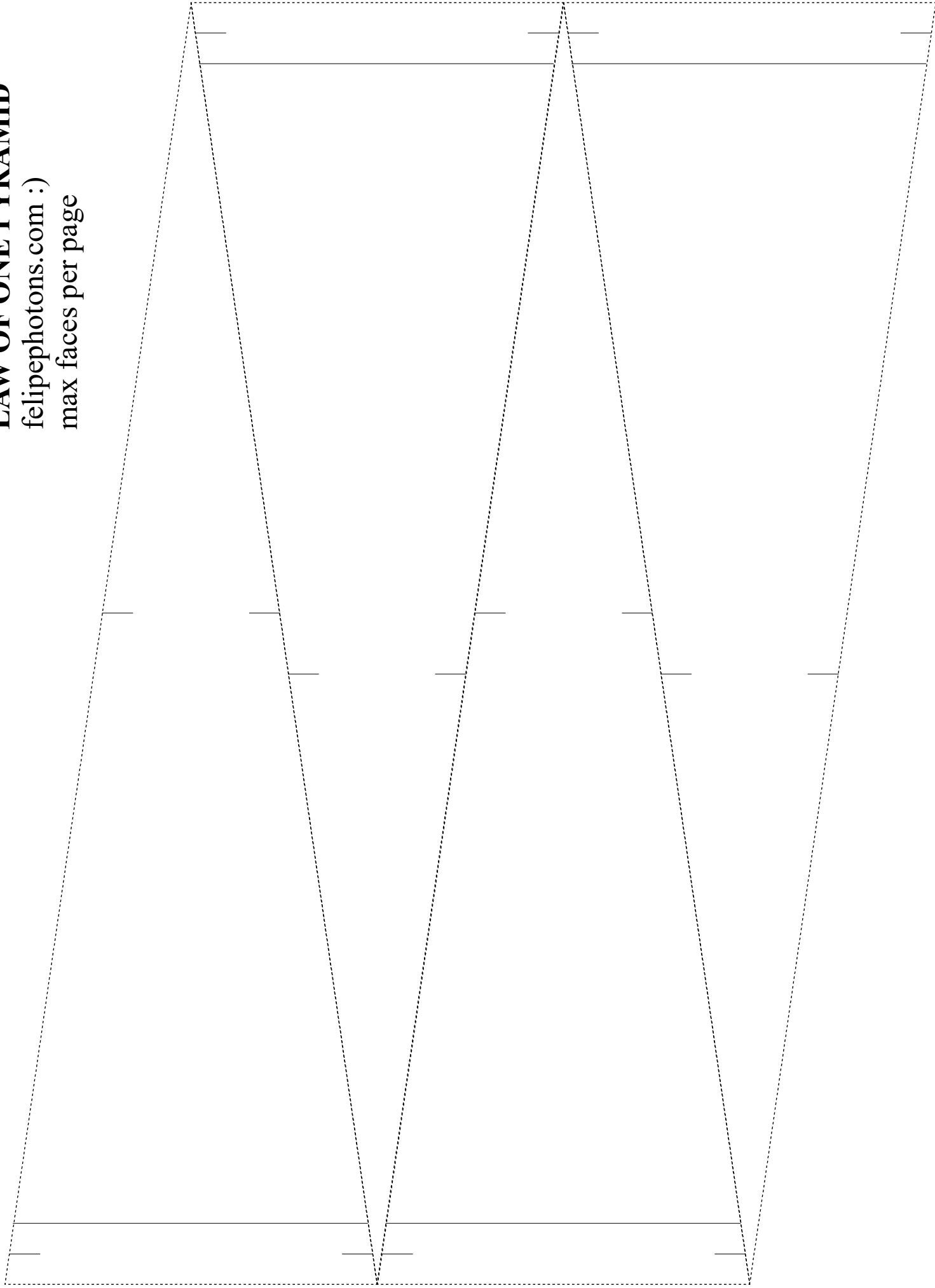
$h = p / \sin(\text{atan}(8/1.16))$	$\approx p * 1.010458$
$p = h * \sin(\text{atan}(8/1.16))$	$\approx h * 0.989650$
$h = w / (2 * \cos(\text{atan}(8/1.16)))$	$\approx w * 3.484337$
$w = h * 2 * \cos(\text{atan}(8/1.16))$	$\approx h * 0.286999$
$w = p / (4/1.16)$	$\approx p * 0.29$
$p = w * (4/1.16)$	$\approx w * 3.448276$
$h = e * \sin(\text{atan}(1 / (\cos(\text{atan}(8/1.16)))))$	$\approx e * 0.989860$
$e = h / \sin(\text{atan}(1 / (\cos(\text{atan}(8/1.16)))))$	$\approx h * 1.010244$
$p = e * \sin(\text{atan}(8 / (1.16 * \sqrt{2})))$	$\approx e * 0.979616$
$e = p / \sin(\text{atan}(8 / (1.16 * \sqrt{2})))$	$\approx p * 1.020809$
$w = e * 2 * \cos(\text{atan}(8 / (1.16 * \sqrt{2}))) / \sqrt{2}$	$\approx e * 0.284089$
$e = w / (2 * \cos(\text{atan}(8 / (1.16 * \sqrt{2}))) / \sqrt{2}$	$\approx w * 3.520029$

These shapes are accurate to two decimal points. Do not “auto-resize” when printing. Email me your comments and suggestions at felipephotons@gmail.com. :) If you LOVED this info and would like to make a contribution, I welcome your Love offerings over here!: paypal.me/felipephotons, cash.me/\$FelipePhotons :)

God speed! = {D

Last updated March 26, 2018

LAW OF ONE PYRAMID
felipephotons.com :)
max faces per page



LAW OF ONE PYRAMID

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max bases per page

