

## Painwheel

by Arya Akhavan (December 2013)

Angles for R.I. = 1.540

40 + 9 girdles = 49 facets

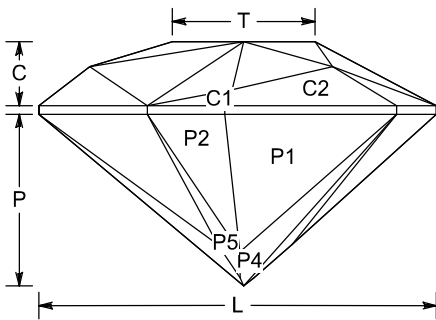
3-fold radial symmetry

96 index

$L/W = 1.022$   $T/W = 0.367$   $U/W = 0.318$

$P/W = 0.440$   $C/W = 0.164$

$Vol./W^3 = 0.191$



### PAVILION

P1	44.84°	29-61-93	Cut to centerpoint.
P2	43.66°	03-35-67	Meet at culet.
P3	43.09°	12-44-76	Meet at culet.
G1	90.00°	29-61-93	Set stone size.
G2	90.00°	03-35-67	Level girdle.
G3	90.00°	12-44-76	Level girdle.
P4	43.16°	28-60-92	Meet P1, P3, G1, G3
P5	42.88°	04-36-68	Meet P2, P3, G2, G3; culet
P6	41.66°	13-45-77	Meet P1, P3, G1, G3, P4; culet

### CROWN

C1	43.42°	29-61-93	Set girdle width.
C2	48.83°	03-35-67	Level girdle.
C3	29.80°	20-52-84	Level girdle.
C4	29.87°	27-59-91	Meet G2, G3, C1, C3
C5	26.64°	21-53-85	Meet G2, G3, C1, C3, C4
C6	29.65°	96-32-64	Meet C1, C2, C4; C2, C3, C5
C7	14.19°	16-48-80	Meet C2, C3, C5, C6; C4, C5, C6
T	0.00°	Table	Meet C4, C5, C6, C7

This trillion is strange. There's no two ways about it. But it has one hell of a cool reflection pattern, with some great contrast and very interesting virtual facets. It does look vaguely angry and painful (to sight and to cut).

Works in materials from quartz to zircon (RI = 1.54 - 1.93) with no changes, but I prefer pink tourmaline.

Suggested size = 7-12 mm

C:\Users\ARYADE~1\Pictures\Gems\DESIGN~1\WORKSI~1\Done\PAINWH~1.GEM