

Faceting 101 - Lesson 1

Opening Octagon

by Arya Akhavan (October 2012)

Angles for R.I. = 1.540

17 + 8 girdles = 25 facets

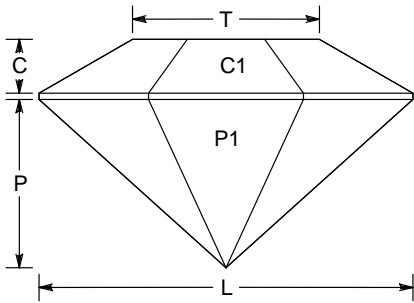
8-fold, mirror-image symmetry

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$L/W = 1.000$ $T/W = 0.500$ $U/W = 0.500$

$P/W = 0.450$ $C/W = 0.144$

$Vol./W^3 = 0.208$



PAVILION

P1 42.00° 96-12-24-36-48-60-72-84 Cut to centerpoint.

G1 90.00° 96-12-24-36-48-60-72-84 Set stone size.

CROWN

C1 30.00° 96-12-24-36-48-60-72-84 Set girdle width.

T 0.00° Table Float table to 50% of stone width.

Our first lesson is a simple octagon, with one set of pavilion and crown facets, no real meetpoints, and a floating table. This lesson teaches how to cut pavilion facets to a centerpoint (P1), how to cut girdle facets to an even depth (G1), how to level the girdle when cutting crown facets (C1), and how to cut a table (T).

Lesson rules: cut in amethyst, with no size restrictions

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