

Tessellation 39 (A)

Suite: Tessellation Party!
by Arya Akhavan (November 2014)

Facet Data

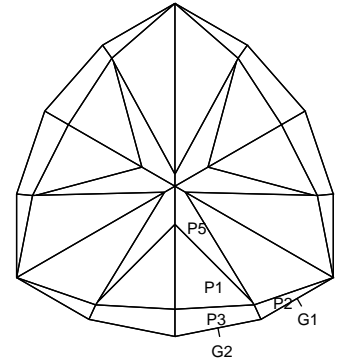
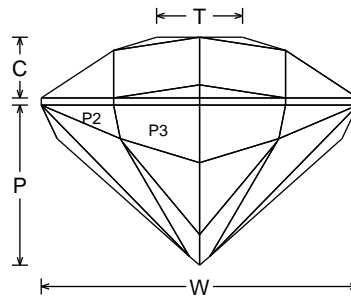
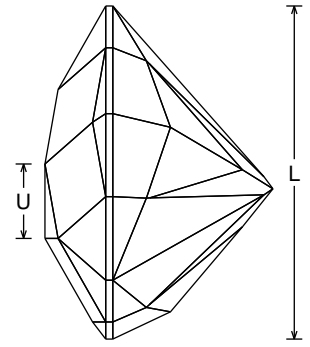
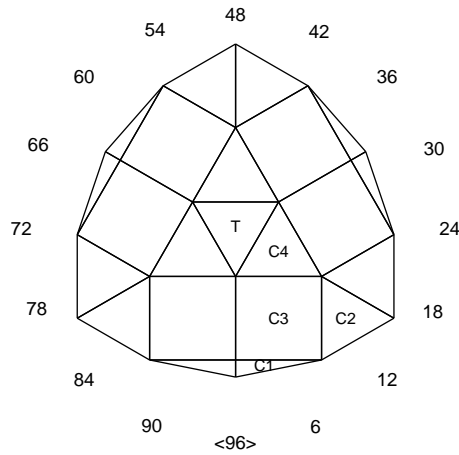
Pavilion facets	30	Pavilion tiers	4
Girdle facets	12	Girdle tiers	2
Crown facets	21+1	Crown tiers	4+1
Total facets	64	Total tiers	11

Size Data

L/W	1.052	P/W	0.506
T/W	0.271	C/W	0.192
U/W	0.235	H/W	0.720
V/W ³	0.249	P/C	2.636

Design Data

Angles for R.I.	1.62
Symmetry	3-fold, mirror
Index gear	96



Comments

Here's a significant modification of my Tessellation 18, that should be both a bit easier to cut and have a more triangular outline. It really worked well with a barion pavilion. The pavilion instructions can NOT be rearranged - this is NOT an omni-type girdle outline, and if you switch P2-P3 with G1-G2, your meets will all fail. Works in materials from quartz to CZ (RI = 1.54 - 2.16) with no changes, but looks better lower.

Pavilion

P1	42.50	06-12-20-26-38-44-52-58-70-76-84-90	Cut to centerpoint.
P2	64.61	08-24-40-56-72-88	Generate corner.
P3	65.13	03-29-35-61-67-93	Meet P1, P2
G1	90.00	08-24-40-56-72-88	Set stone size/level girdle.
G2	90.00	03-29-35-61-67-93	Level girdle.
P5	41.80	07-25-39-57-71-89	Meet P1, P2, P3

Crown

C1	38.05	03-29-35-61-67-93	Set girdle width.
C2	33.34	08-24-40-56-72-88	Level girdle.
C3	30.54	04-28-36-60-68-92	Meet G1, G2, C1, C2
C4	10.00	16-48-80	Meet C1, C3
T	0.00	Table	Meet C3, C4