PANA Mine - Zero-Point Burst

October 2018

Facet Data

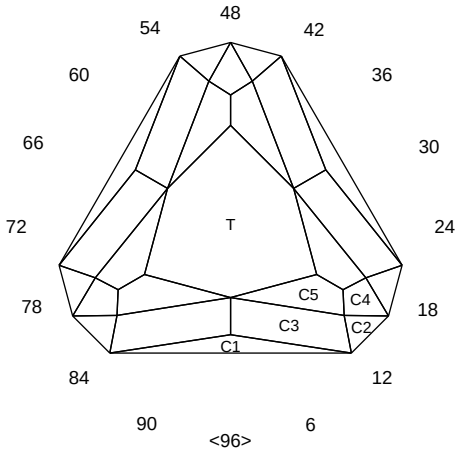
Pavilion facets	27	Pavilion tiers	5
Girdle facets	9	Girdle tiers	2
Crown facets	24+1	Crown tiers	5+1
Total facets	**61**	Total tiers	13

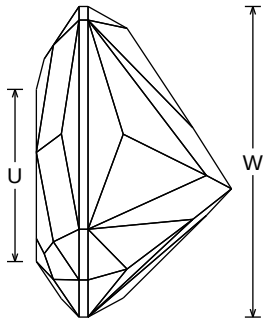
Size Data

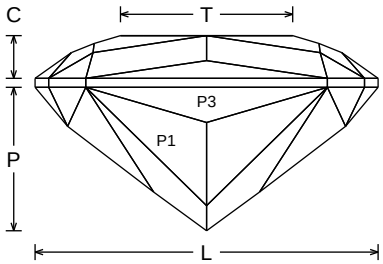
L/W	1.104	P/W	0.462
H/W	0.628	C/W	0.137
V/W^3	0.223	P/C	3.361

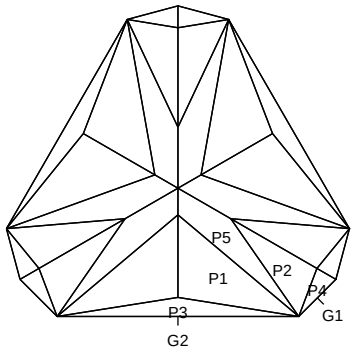
Design Data

R.I. range	1.50 - 2.62
Size range	8 - 20 mm
Symmetry	3-fold, mirror
Index gear	96
Shape	Triangle









Comments

This design was written specifically for dichroic green-red Oregon sunstone. Orienting the green colour down the table (i.e. the Z-axis) should give the main body colour as green, but with concentrations of red at the three corners of the triangle. Interesting effects can be had by orienting the green along the X or Y axes. Works in materials from petalite to rutile (RI = 1.50 - 2.62) with no changes but does well even down to opal (1.45).

Pavilion

P1	45.45	02-30-34-62-66-94	Cut to centerpoint.
P2	43.10	04-28-36-60-68-92	Meet at culet.
G1	90.00	12-20-44-52-76-84	Set stone size.
G2	90.00	96-32-64	Meet P1, P2, G1
P3	61.57	96-32-64	Level girdle.
P4	61.57	12-20-44-52-76-84	Level girdle.
P5	43.84	03-29-35-61-67-93	Meet P1, P2, G1, G2, P3, P4

Crown

C1	43.93	96-32-64	Set girdle width.
C2	38.95	12-20-44-52-76-84	Level girdle.
C3	34.00	01-31-33-63-65-95	Meet G1, G2, C1, C2
C4	33.56	16-48-80	Meet G2, C2
C5	20.06	04-28-36-60-68-92	Meet C2, C3, C4
T	0.00	Table	Meet C3, C5