PANA Mine - Shifting Sands

by Arya Akhavan (October 2018)

Facet Data
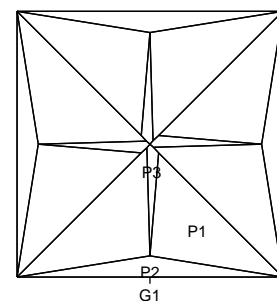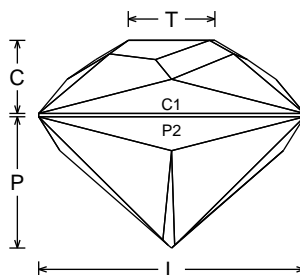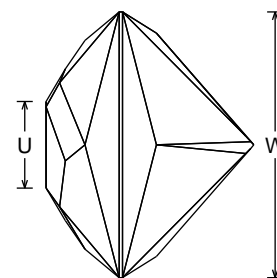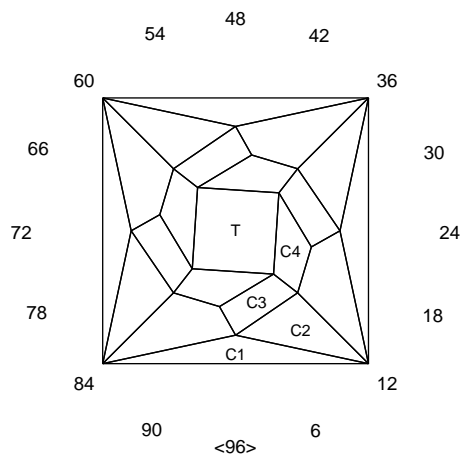
Pavilion facets	16	Pavilion tiers	3
Girdle facets	4	Girdle tiers	1
Crown facets	20+1	Crown tiers	4+1
Total facets	**41**	Total tiers	9

Size Data

L/W	1.000	P/W	0.494
H/W	0.781	C/W	0.275
V/W^3	0.339	P/C	1.796

Design Data

R.I. range	1.54 - 1.83
Size range	7 - 15 mm
Symmetry	4-fold, radial
Index gear	96
Shape	Square

Comments

This design was written specifically for dichroic green-red Oregon sunstone. The very "flat" pavilion ensures that the colours will stay separate as much as possible, as long as you orient two different colours perfectly along the X and Y axes. Works in materials from sunstone to YAG (RI = 1.54 - 1.83) with no changes, but can be scaled for higher RIs.

Pavilion

P1	41.48	02-22-26-46-50-70-74-94	Cut to centerpoint.
G1	90.00	96-24-48-72	Set stone size.
P2	57.99	96-24-48-72	Level girdle.
P3	41.14	01-25-49-73	Meet P1, P2

Crown

C1	50.19	96-24-48-72	Set girdle width.
C2	36.86	02-22-26-46-50-70-74-94	Meet G1, C1
C3	33.63	01-25-49-73	Meet C1, C2
C4	28.11	23-47-71-95	Meet C2, C3
T	0.00	Table	Meet C3, C4