

PANA Mine - Sunrise Horizon

by Arya Akhavan (October 2018)

Facet Data

Pavilion facets	18	Pavilion tiers	4
Girdle facets	10	Girdle tiers	3
Crown facets	26+1	Crown tiers	7+1
Total facets	55	Total tiers	15

Size Data

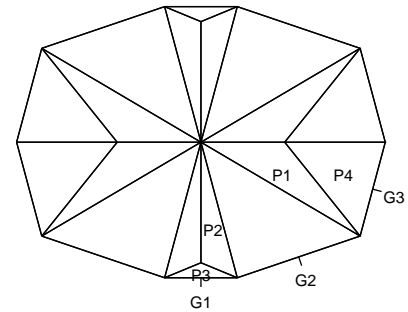
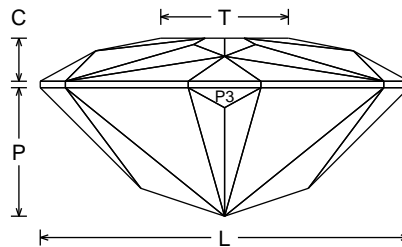
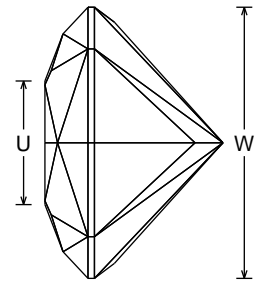
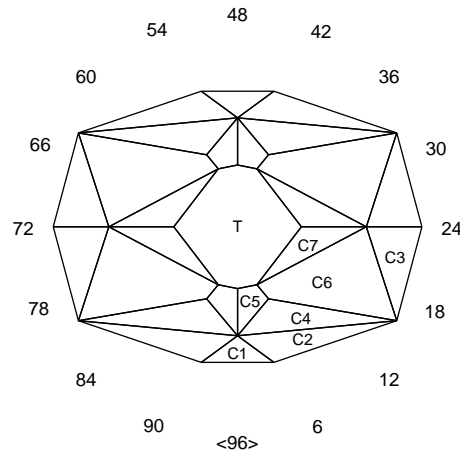
L/W	1.359	P/W	0.474
H/W	0.657	C/W	0.159
V/W ³	0.316	P/C	2.985

Design Data

R.I. range	1.54 - 1.83
Size range	7 - 15 mm
Symmetry	2-fold, mirror
Index gear	96
Shape	Rectangle

Comments

This design was written specifically for dichroic green-red Oregon sunstone. The keel should help decrease colour mixing. If the green axis is oriented along the X or the Y, it can give a very clear distinction between green and red zones, but orientation errors could give a muddy brown colour. Works in materials from sunstone to YAG (RI = 1.54 - 1.83) with no changes and REALLY starts to look cool-weird in higher RIs.



Pavilion

P1	41.03	06-42-54-90	Cut to centerpoint.
P2	42.54	03-05-43-45-51-53-91-93	Meet at culet.
G1	90.00	96-48	Set stone width.
G2	90.00	05-43-53-91	Level girdle.
G3	90.00	20-28-68-76	Meet P1, P2, G2
P3	53.12	96-48	Level girdle.
P4	46.00	20-28-68-76	Level girdle.

Crown

C1	43.13	96-48	Set girdle width.
C2	34.06	05-43-53-91	Level girdle.
C3	29.56	20-28-68-76	Level girdle.
C4	27.95	06-42-54-90	Meet G2, G3, C2, C3
C5	21.39	03-45-51-93	Meet C1, C2, C4
C6	19.10	12-36-60-84	Meet G2, G3, C2, C3
C7	13.74	14-34-62-82	Meet C3, C6
T	0.00	Table	Meet C5, C6, C7