

# PANA Mine - Geometric Expletive

October 2018

## Facet Data

Pavilion facets	24	Pavilion tiers	3
Girdle facets	16	Girdle tiers	2
Crown facets	48	Crown tiers	7
<b>Total facets</b>	<b>88</b>	<b>Total tiers</b>	<b>12</b>

## Size Data

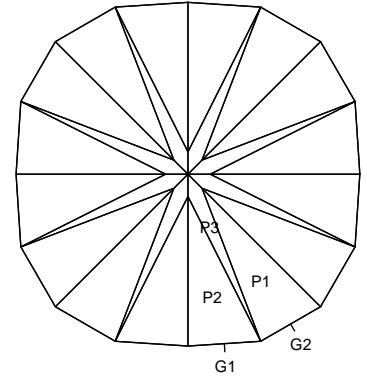
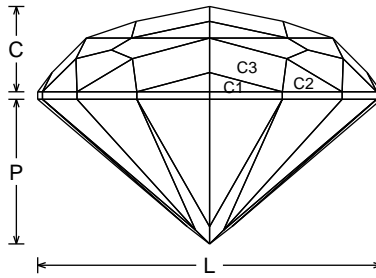
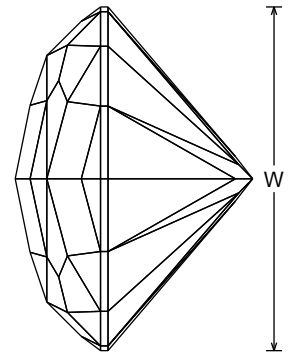
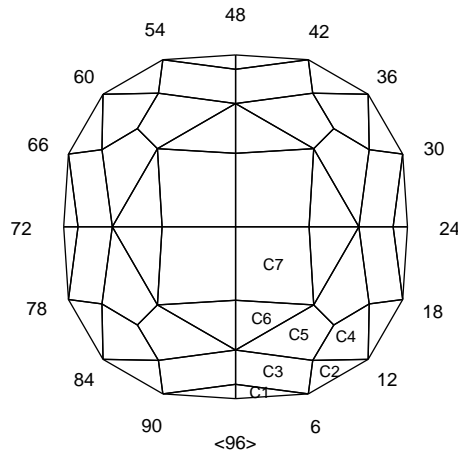
L/W	1.000	P/W	0.421
H/W	0.691	C/W	0.248
V/W <sup>3</sup>	0.246	P/C	1.695

## Design Data

R.I. range	1.54 - 2.62
Size range	8 - 20 mm
Symmetry	4-fold, mirror
Index gear	96
Shape	Square

## Comments

This design was written specifically for dichroic green-red Oregon sunstone. The intentional window at the centre substantially improves the design's tilt performance; just make sure to orient the green colour as the table direction (down the Z-axis of the stone). Works in materials from sunstone to rutile (RI = 1.54 - 2.62) with no changes, but looks absolutely stunning in CZ.



## Pavilion

P1	38.94	08-16-32-40-56-64-80-88	Cut to centerpoint.
P2	40.47	01-23-25-47-49-71-73-95	Meet at culet.
G1	90.00	01-23-25-47-49-71-73-95	Set stone size.
G2	90.00	08-16-32-40-56-64-80-88	Level girdle.
P3	38.75	04-20-28-44-52-68-76-92	Meet P1, P2, G1, G2

## Crown

C1	53.39	01-23-25-47-49-71-73-95	Set girdle width.
C2	51.01	08-16-32-40-56-64-80-88	Level girdle.
C3	45.41	02-22-26-46-50-70-74-94	Meet G1, G2, C1, C2
C4	40.73	12-36-60-84	Meet G2, C2
C5	23.46	08-16-32-40-56-64-80-88	Meet C2, C3, C4
C6	21.22	08-16-32-40-56-64-80-88	Meet C3, C5
C7	15.95	12-36-60-84	Meet C5, C6