

# PANA Mine - Sparkling Well

by Arya Akhavan (October 2018)

## Facet Data

Pavilion facets	40	Pavilion tiers	5
Girdle facets	20	Girdle tiers	2
Crown facets	32	Crown tiers	4
<b>Total facets</b>	<b>92</b>	<b>Total tiers</b>	<b>11</b>

## Size Data

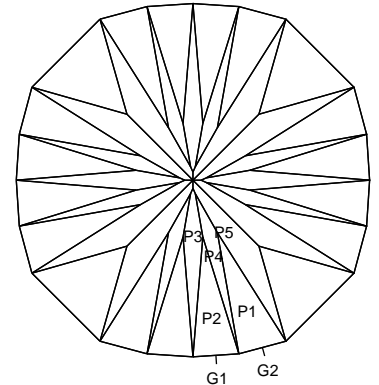
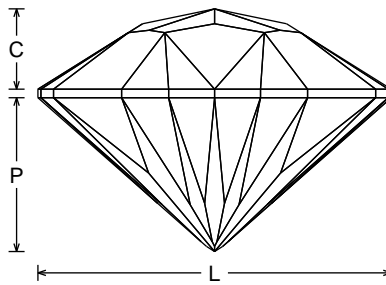
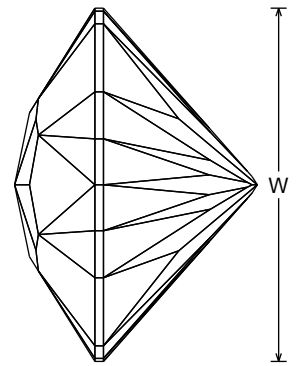
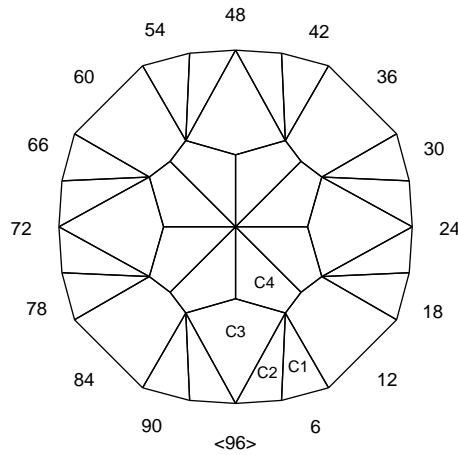
L/W	1.000	P/W	0.435
H/W	0.687	C/W	0.227
V/W <sup>3</sup>	0.224	P/C	1.915

## Design Data

R.I. range	1.54 - 2.62
Size range	8 - 15 mm
Symmetry	4-fold, mirror
Index gear	96
Shape	Round

## Comments

This design was written specifically for dichroic green-red Oregon sunstone. Orienting the green colour down the Z-axis should give a rim of red and a body of green, and the apex crown and tiny window dramatically improve tilt performance. Works in materials from sunstone to rutile (RI = 1.54 - 2.62) without changes, but does particularly well in zircon or GGG (RI = 1.93 - 2.03) or higher RIs with P scaled to 87% and C to 120%.



## Pavilion

P1	41.10	04-12-20-28-36-44-52-60-68-76-84-92	Cut to centerpoint.
P2	41.63	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	04-12-20-28-36-44-52-60-68-76-84-92	Level girdle.
P3	41.42	96-24-48-72	Meet P2, G1
P4	41.00	03-21-27-45-51-69-75-93	Meet P1, P2, G1, G2
P5	40.14	11-13-35-37-59-61-83-85	Meet P1, G2

## Crown

C1	34.11	04-12-20-28-36-44-52-60-68-76-84-92	Set girdle width.
C2	33.01	01-23-25-47-49-71-73-95	Level girdle.
C3	32.00	96-24-48-72	Meet G1, C2; C1, C2
C4	13.45	08-16-32-40-56-64-80-88	Meet C1, C2, C3