PANA Mine - Sunset Bell

by Arya Akhavan (October 2018)

Facet Data

Pavilion facets	22	Pavilion tiers	8
Girdle facets	8	Girdle tiers	3
Crown facets	21+1	Crown tiers	8+1
Total facets	**52**	Total tiers	20

Size Data

L/W	1.338	P/W	0.443
H/W	0.645	C/W	0.179
V/W^3	0.279	P/C	2.468

Design Data

R.I. range	1.54 - 2.62
Size range	7 - 15 mm
Symmetry	1-fold, mirror
Index gear	96
Shape	Pear

Comments

This design was written specifically for dichroic green-red Oregon sunstone. Orienting the best green colour down the Z will color most of the stone green, but orienting it down the X or Y axes should theoretically give remarkable and very unusual colour effects when tilted forward and backwards. Again, colour-mixing can be a significant problem if mis-oriented. Works in materials from sunstone to rutile RI = 1.54 - 2.62) with no changes.
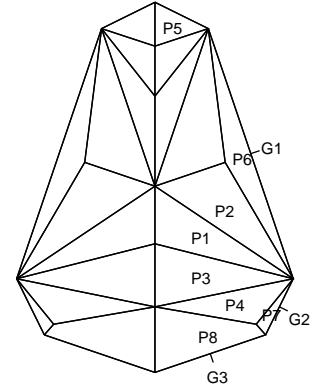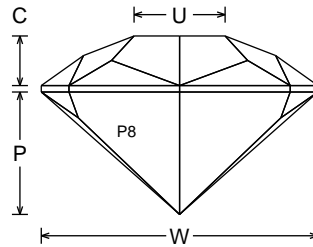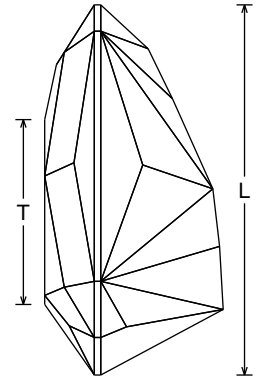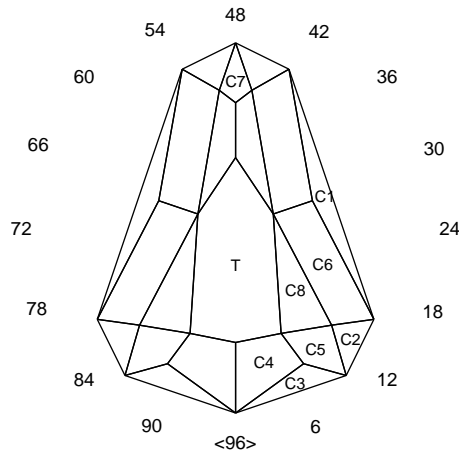
Pavilion

P1	41.87	26-32-64-70	Cut to centerpoint.
P2	43.62	27-31-65-69	Meet at culet.
G1	90.00	29-67	Set stone size.
G2	90.00	17-41-55-79	Meet P1, P2, G1
P3	41.20	25-33-63-71	Meet P1, P2, G1, G2
P4	43.24	21-75	Meet P1, P2, G1, G2, P3
P5	50.29	41-55	Meet P1, P2, G1, G2, P3; level girdle.
P6	57.21	29-67	Level girdle.
P7	63.10	17-79	Level girdle.
P8	63.10	05-91	Meet P3, P4
G3	90.00	05-91	Level girdle.

Crown

C1	45.38	29-67	Set girdle width.
C2	40.37	17-41-55-79	Level girdle.
C3	45.38	05-91	Level girdle.
C4	35.63	03-93	Meet G3, C3
C5	33.21	12-84	Meet G2, G3, C2, C3
C6	35.36	28-30-66-68	Meet G1, G2, C1, C2
C7	32.35	48	Meet G2, C2
C8	21.01	25-33-63-71	Meet C2, C5, C6; C2, C6, C7
T	0.00	Table	Meet C4, C5, C8; C6, C8