Silver Crystal Lotus

by Arya Akhavan (June 2018)

Facet Data

Pavilion facets	35	Pavilion tiers	3
Girdle facets	14	Girdle tiers	1
Crown facets	28+1	Crown tiers	3+1
Total facets	**78**	Total tiers	8
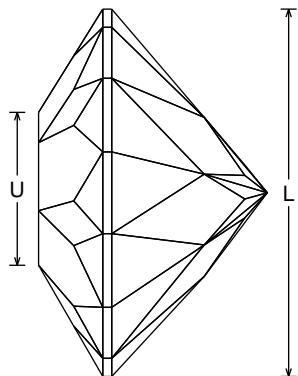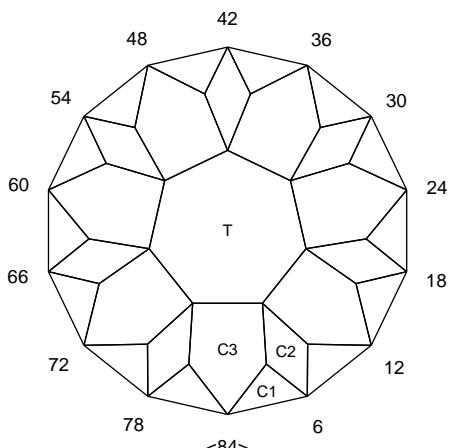
Size Data

L/W	1.026	P/W	0.434
H/W	0.638	C/W	0.179
V/W^3	0.220	P/C	2.422

Design Data

Angles for R.I.	1.62
Symmetry	7-fold, mirror
Index gear	84
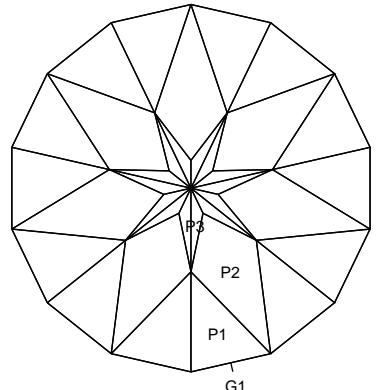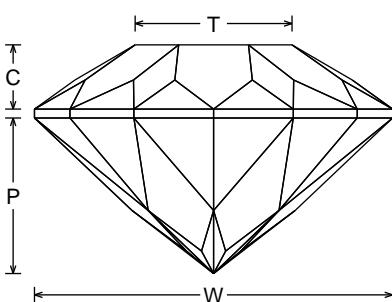
Comments

This design was written specifically to make use of 7-fold symmetry to help brighten up dark iron-bearing garnets. It does require an 84-index, which can be hard to find, but it's well worth it. The light output is impressive, and P3 can be omitted for smaller stones. Looks inordinately, unreasonably beautiful in white rutile or moissanite. Works in materials from tourmaline to rutile (RI = 1.62 - 2.62) with no changes.

Pavilion

P1	43.47	03-09-15-21-27-33-39-45-51-57-63-69-75-81	Cut to centerpoint.
G1	90.00	03-09-15-21-27-33-39-45-51-57-63-69-75-81	Set stone size.
P2	40.49	06-18-30-42-54-66-78	Meet P1, G1
P3	39.00	05-07-17-19-29-31-41-43-53-55-65-67-77-79	Meet P1, P2 (optional)

Crown

C1	35.69	03-09-15-21-27-33-39-45-51-57-63-69-75-81	Set girdle width.
C2	31.88	06-18-30-42-54-66-78	Meet G1, C1
C3	30.00	84-12-24-36-48-60-72	Meet G1, C1
T	0.00	Table	Meet C2, C3