

Tumbling Star

by Arya Akhavan (May 2013)

Angles for R.I. = 1.650

36 + 5 girdles = 41 facets

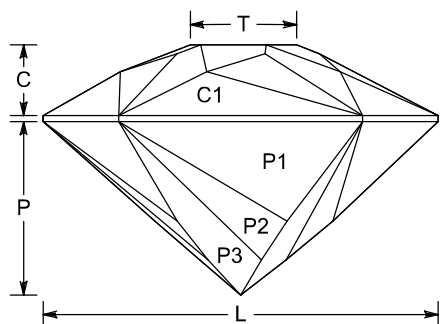
5-fold radial symmetry

80 index

$L/W = 1.051$ $T/W = 0.283$ $U/W = 0.283$

$P/W = 0.461$ $C/W = 0.188$

$Vol./W^3 = 0.201$



PAVILION

P1	49.10°	80-16-32-48-64	Cut to centerpoint.
G1	90.00°	80-16-32-48-64	Set stone size.
P2	45.10°	01-17-33-49-65	Meet P1, G1
P3	43.10°	02-18-34-50-66	Meet P1, G1, P2

CROWN

C1	40.00°	80-16-32-48-64	Set girdle width.
C2	30.00°	02-18-34-50-66	Meet G1, C1
C3	25.00°	08-24-40-56-72	Meet G1, C1, C2
C4	20.00°	14-30-46-62-78	Meet C1, C2, C3
T	0.00°	Table	Meet C3, C4

This design was the prototype for my submission to the 2013 Gemology Online facet design competition, and I actually prefer it over my submission. This is more interesting, even if it has more facets and slightly lower brightness. Works in materials from orthoclase to CZ (RI = 1.52 - 2.16), but I prefer it in hiddenite.

Suggested size = 6-10 mm

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