

Scatter

by Arya Akhavan (December 2013)

Angles for R.I. = 1.540

41 + 10 girdles = 51 facets

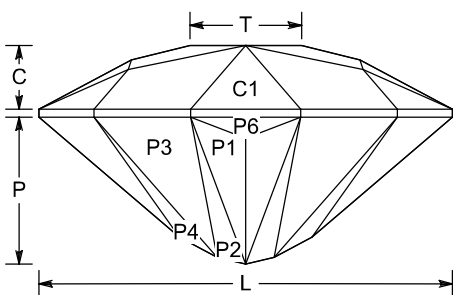
2-fold, mirror-image symmetry

96 index

$L/W = 1.368$ $T/W = 0.370$ $U/W = 0.370$

$P/W = 0.486$ $C/W = 0.210$

$Vol./W^3 = 0.306$



PAVILION

P1	42.73°	03-45-51-93	Cut to centerpoint.
P2	42.50°	04-44-52-92	Meet at culet.
G1	90.00°	96-48	Set stone width.
G2	90.00°	08-40-56-88	Meet P1, P2, G1
P3	44.17°	08-40-56-88	Level girdle.
P4	43.47°	09-39-57-87	Meet P2, P3
G3	90.00°	16-32-64-80	Meet G2, P3, P4
P5	44.64°	16-32-64-80	Level girdle.
P6	59.56°	96-48	Level girdle.

CROWN

C1	33.69°	96-48	Set girdle width.
C2	30.00°	08-40-56-88	Level girdle.
C3	33.68°	16-32-64-80	Level girdle.
C4	29.91°	18-30-66-78	Meet G3, P3
C5	19.16°	12-36-60-84	Meet C2, C3, C4
T	0.00°	Table	Meet C1, C2, C5

This design came about when I was trying to write another tessellation-style design. The pavilion helps really scatter light throught the stone, in stark contrast to the large virtual facets in the acutal Tessellation design.

Works in materials from quartz to peridot (RI = 1.54 - 1.65), and then gets really weird as you increase the RI.

Suggested length = 6-10 mm

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