

## MODERN BRILLIANT

Designed by Jim Perkins, jimperkins@zoominternet.net

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This design can easily be adjusted for higher I.R. material.

Angles for R.I. = 1.540

73 + 18 girdles = 91 facets

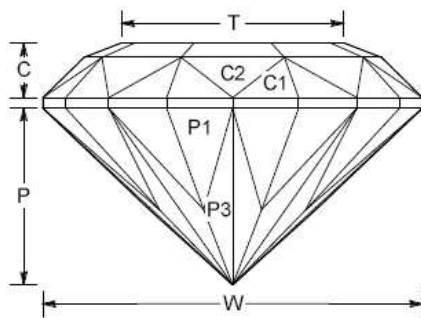
9-fold, mirror-image symmetry

72 index

$L/W = 1.015$   $T/W = 0.585$   $U/W = 0.576$

$P/W = 0.463$   $C/W = 0.143$

$Vol./W^3 = 0.225$



### PAVILION

P1	43.50°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70	CUT TO CENTER POINT.
P2	90.00°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70	CUT TO SIZE, LEVEL BOTTOM GIRDLE LINE.
P3	42.50°	01-07-09-15-17-23-25-31-33-39-41-47-49-55-57-63-65-71	PCP, GMP.

### CROWN

C1	44.00°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70	SET GIRDLE HT, LEVEL TOP GIRDLE LINE.
C2	38.00°	72-08-16-24-32-40-48-56-64	GMP.
C3	22.00°	72-08-16-24-32-40-48-56-64	MP@ C1.
C4	0.00°	Table	CUT TO SIZE & POLISH.

Using the accurate and repeatable machines available to modern faceters and the software tools we have available for design and analysis. I believe we can improve on the performance of our gemstones compared to what has been done in the past. This is a perfect example of using a low refractive material and a simple cut yet achieving optimum performance. Enjoy cutting this in any size in clear or light to medium colored material.

C:\modern brilliant.gem