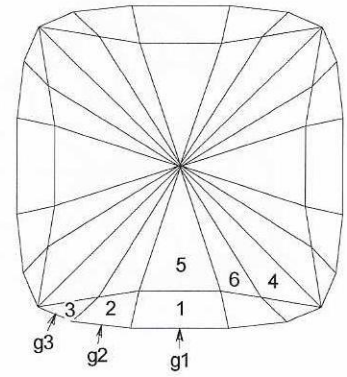
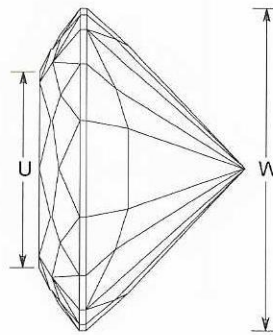
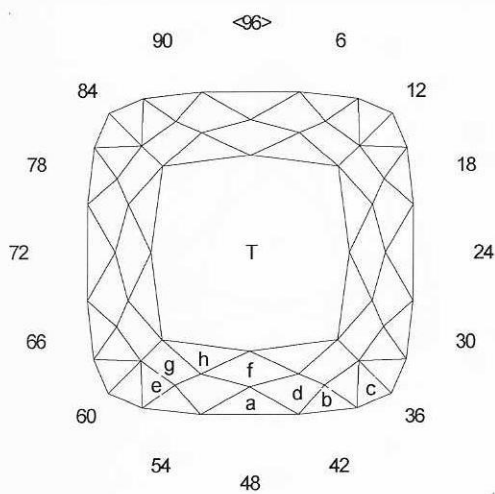


Prince of Portugal

By Ernie Hawes

Angles for R.I. = 1.760

97 + 20 girdles = 117 facets

4-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.612$ $U/W = 0.612$

$P/W = 0.487$ $C/W = 0.121$

$Vol./W^3 = 0.253$

PAVILION

g1	90.00° 96-24-48-72
1	47.90° 96-24-48-72
2	47.40° 02-22-26-46-50-70-74-94
g2	90.00° 02-22-26-46-50-70-74-94
3	42.80° 06-18-30-42-54-66-78-90
g3	90.00° 06-18-30-42-54-66-78-90
4	40.01° 07-17-31-41-55-65-79-89
5	43.00° 96-24-48-72
6	41.75° 03-21-27-45-51-69-75-93

Set stone size

Create temporary center point (TCP)

Cut close to TCP so g1 is about 1/3 width of stone

Cut level with g1 joining at corners

Cut permanent center point (PCP) so 1/2 g2 is left

Cut level with g2 & meet 3 at corner

Cut to PCP & meet 3 at the girdle

Cut to PCP

Ease in to PCP & meet at juncture of 3 & 4 & 1, 2 & 5

CROWN

a	37.50° 96-24-48-72
b	36.50° 02-22-26-46-50-70-74-94
c	32.25° 06-18-30-42-54-66-78-90
d	34.60° 01-23-25-47-49-71-73-95
e	31.55° 05-19-29-43-53-67-77-91
f	27.25° 96-24-48-72
g	27.05° 04-20-28-44-52-68-76-92
h	22.00° 02-22-26-46-50-70-74-94
T	0.00° Table

Set girdle thickness

Cut to level girdle line with a

Cut to level girdle line with b

Meet a & b at the girdle

Meet b & c at the girdle

Meet at juncture of a & d

Meet at juncture of d & e

Meet at juncture of d, f & g

Meet at juncture of f & h & g & h