



(unnamed)

by Marco Voltolini
 Gemology Online Faceting Design Competition 2014
 Cutthroat Entry 6
 Angles for R.I. = 1.610
 81 + 16 girdles = 97 facets
 2-fold, mirror-image symmetry
 96 index
 $L/W = 1.172$ $T/W = 0.233$ $U/W = 0.204$
 $P/W = 0.523$ $C/W = 0.167$
 $Vol./W^3 = 0.295$

PAVILION

P1	43.49°	96-06-12-18- 24-30-36-42- 48-54-60-66- 72-78-84-90	Cut to centerpoint.
G1	90.00°	18-24-30-66- 72-78	Set stone size.
G2	90.00°	08-40-56-88	Meet P1, G1
G3	90.00°	04-44-52-92	Meet P1, G2
G4	90.00°	96-48	Meet P1, G3
P2	64.60°	08-40-56-88	Level girdle.
P3	65.75°	04-44-52-92	Level girdle.
P4	66.11°	96-48	Level girdle.
P5	41.26°	03-09-15-21- 27-33-39-45- 51-57-63-69- 75-81-87-93	Meet P1, P3, P4
P6	39.50°	96-12-24-36- 48-60-72-84	Meet P1, P5

CROWN

C1	34.50°	24-72	Set girdle width.
C2	36.57°	18-30-66-78	Level girdle.
C3	36.57°	08-40-56-88	Level girdle.
C4	33.63°	04-44-52-92	Level girdle.
C5	32.62°	96-48	Level girdle.
C6	25.00°	14-34-62-82	Meet G1, G2, C2, C3
C7	20.26°	24-72	Meet C1, C2, C6
C8	18.15°	08-40-56-88	Meet C3, C4, C6
C9	15.85°	96-48	Meet C4, C5, C8
C10	9.31°	24-72	Meet C6, C7, C8
T	0.00°	Table	Meet C8, C9, C10