



Sirius Inspiration

by Wayne Emery
 inspired by Paul C. Smith, Stonecutter, May 82, p.4
 Angles for R.I. = 1.540
 79 + 12 girdles = 91 facets
 6-fold mirror-image symmetry
 96 index
 $L/W = 1.036$ $T/W = 0.073$ $U/W = 0.063$
 $P/W = 0.543$ $C/W = 0.211$
 $Vol./W^3 = 0.248$

Pavilion

1	50.08	03-13-19-29-35-45-51-61-67-77-83-93	TCP
G	90.00	03-13-19-29-35-45-51-61-67-77-83-93	set stone size
2	47.34	96-16-32-48-64-80	GMP G, 1, 1, G set PCP
3	46.84	04-12-20-28-36-44-52-60-68-76-84-92	cut to PCP

Crown

A	51.64	03-13-19-29-35-45-51-61-67-77-83-93	set girdle width
B	41.09	03-13-19-29-35-45-51-61-67-77-83-93	cut by eye to suit
C	36.55	08-24-40-56-72-88	MP A, B, B, A
D	37.06	01-15-17-31-33-47-49-63-65-79-81-95	MP A, B, B, A
E	10.39	96-16-32-48-64-80	cut by eye but not all the way to B
T	0.00	Table	cut to 5-10% of W

intended for low RI. Smith's design didn't have a small table this produces a dark spot in the center of the stone. Emery added breaks, split facets on mains.