Checker Heart

By Jón Olaf Svane, 23. april 2003
Angles for R.I. = 1.540
72 + 13 girdles = 85 facets
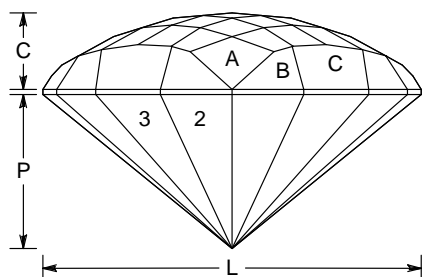1-fold, mirror-image symmetry
96 index
L/W = 1.030
P/W = 0.419 C/W = 0.208
Vol./W³ = 0.207

PAVILION

1	38.60°	29-67	Cut this angle on all mains settings to form PCP
2	43.00°	09-87	Meet 1 in PCP
3	43.80°	11-85	Meet 1 in PCP
4	43.00°	16-80	Meet 1 in PCP
5	41.00°	21-75	Meet 1 in PCP
6	39.00°	39-57	Meet 1 in PCP
7	40.10°	45-51	Meet 1 in PCP
8	90.00°	48	At least meet line between 6 and 7
9	90.00°	39-57	Meet 6-7-8
10	90.00°	29-67	Meet 1-6-9
11	90.00°	21-75	Meet 5-1-10
12	90.00°	16-80	Meet 4-5-11
13	90.00°	11-85	Meet 3-4-12
14	90.00°	09-87	Meet 2-3-13
15	52.00°	48	Meet 6-7-8-9

CROWN

A	33.40°	96	Establish girdle thickness
B	57.20°	09-87	Chain cut B through H to even girdle
C	58.00°	11-85	
D	64.40°	16-80	
E	58.80°	21-75	
F	58.00°	29-67	
G	66.30°	39-57	
H	60.80°	48	
I	32.00°	35-61	Meet girdle at F-G-9-10
J	22.50°	10-14-34-38-58-62-82-86	Divides edge of C equally
K	24.60°	04-20-28-44-52-68-76-92	Meet B-C-J or D-C-J
L	17.20°	96-24-48-72	Meet point K-A-K
M	12.70°	08-16-32-40-56-64-80-88	Meet L-K-J
N	4.80°	96-24-48-72	Meet point M-L-M
O	33.00°	30-42-54-66	Meet I-K-J
P	32.00°	37-59	I-J-K
Q	28.90°	24-48-72	Meet D-E-K

Someone at USFG Faceters List missed a checkered heart. I decided to try to make one.
D:\Jón Olaf Svane\Nojfalo\facet\dotgem\checkheart.gem