



### Cut-corner Square Barion Cushion by Wayne Emery

2008 and inspired by Long & Steele's Square Cushion Barion  
For RI 1.60 and up w/out changes

Angles for R.I. = 1.760

89 + 20 girdles = 109 facets

4-fold mirror-image symmetry

64 index

$L/W = 1.000$   $T/W = 0.656$   $U/W = 0.656$

$P/W = 0.494$   $C/W = 0.125$

$Vol./W^3 = 0.257$

### Pavilion

1	42.00	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62	Cut 16 facets to CP
2	90.00	01-15-17-31-33-47-49-63	Set diameter
3	90.00	03-13-19-29-35-45-51-61	Meet 2,1
4	90.00	08-24-40-56	Cut by eye to desired width
5	61.00	03-13-19-29-35-45-51-61	Meet 4, level girdle
6	61.94	01-15-17-31-33-47-49-63	Meet 5, level girdle
7	40.80	04-12-20-28-36-44-52-60	Cut 8 facets to meet 5, 6.
8	42.07	08-24-40-56	Adjust to meet OR nearly meet 7

### Crown

A	41.00	01-15-17-31-33-47-49-63	Set girdle width
B	40.00	03-13-19-29-35-45-51-61	Meet A
C	36.00	02-14-18-30-34-46-50-62	Meet girdle
E	17.20	07-09-23-25-39-41-55-57	Meet B
T	0.00	Table	Cut at zero degrees to meet as shown
D	29.48	01-15-17-31-33-47-49-63	Meet A
F	43.71	08-24-40-56	Adjust angle to meet C, E

The cut corners allow for added brilliance, and the split stars create a more rounded table. These features combine to create a "softer" cushion shape which is also easier for jewelers to set in prongs. This is a real favorite with my clients.