

# USFG SSC 2021 - Grand Master

Cut Corner Barion Cushion w/Round Table by Wayne Emery  
109 including Preform + 20 girdle = 129 facets

## Facet Data

Pavilion facets	64	Pavilion tiers	16
Girdle facets	20	Girdle tiers	5
Crown facets	44+1	Crown tiers	11+1
<b>Total facets</b>	<b>129</b>	<b>Total tiers</b>	<b>33</b>

## Size Data

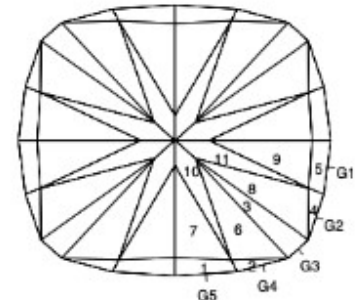
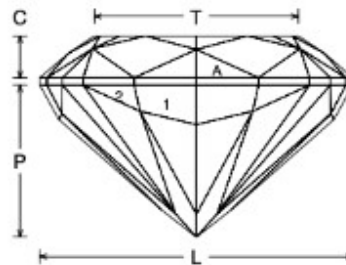
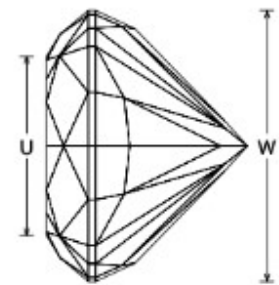
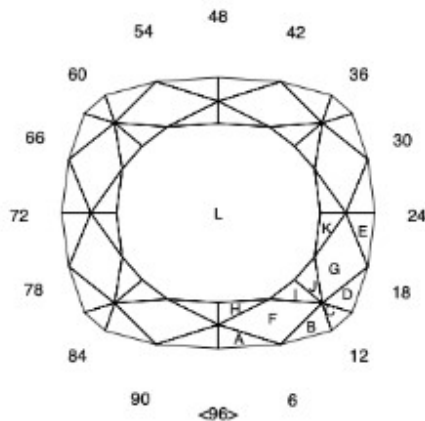
L/W	1.156	P/W	0.560
T/W	0.753	C/W	0.154
U/W	0.661	H/W	0.742
V/W^3	0.349	P/C	3.630

## Design Data

Angles for R.I.	1.54
Symmetry	2-fold, mirror
Index gear	96

## Comments

Material to Cut: Quartz  
Stone Length: 12 mm +/- 0.1 mm  
Girdle Thickness: 0.5 mm +/- 0.1 mm



## Pavilion

PF1	31.07	{01-47-49-95}	
PF2	29.66	{04-44-52-92}	
PF3	26.53	{11-37-59-85}	
PF4	27.14	{19-29-67-77}	
PF5	27.68	{22-26-70-74}	
G1	90.00	22-26-70-74	Set Stone Size at pf5
G2	90.00	19-29-67-77	Meet pf5, G1 level girdle
G3	90.00	11-37-59-85	Meet pf4, G2 Level Girdle
G4	90.00	04-44-52-92	Meet pf3, G3 level girdle
G5	90.00	01-47-49-95	Meet pf2, G1, G4 level girdle
1	65.07	01-47-49-95	Establish level Girdle
2	63.71	04-44-52-92	Continue level Girdle
3	43.48	11-37-59-85	Continue level Girdle
4	60.67	19-29-67-77	Continue level Girdle
5	61.31	22-26-70-74	Continue level Girdle
6	44.22	08-40-56-88	Meet P2, P3 at Girdle
7	44.79	03-45-51-93	Meet P1, P2, P6
8	42.73	14-34-62-82	Cut to PCP, Meet P1, P2, P6, P7
9	41.90	21-27-69-75	Meet P4, P5, P8
10	43.72	05-43-53-91	Meet P3, P4 at Girdle
11	41.00	17-31-65-79	Cut to PCP, Meet P4, P5, P8, P9

## Crown

A	50.01	01-47-49-95
B	44.98	04-44-52-92
C	47.12	11-37-59-85
D	42.67	19-29-67-77
E	40.62	22-26-70-74
F	41.95	03-45-51-93
G	37.64	21-27-69-75
H	31.48	01-47-49-95
I	19.81	10-38-58-86
J	19.39	13-35-61-83
K	34.01	22-26-70-74
L	0.00	Table

Establish Girdle Thickness  
Level Girdle  
Level Girdle  
Level Girdle  
Level Girdle  
Meet A, B at Girdle  
Meet D, E at Girdle  
Meet A, F  
Meet B, C, D, F, G  
Meet B, C, C, F, G, I  
Meet G, E  
Meet H, F, I, J, G, K