

4 WAY STOP - DESIGNED BY JEFF R. GRAHAM JEFF@FACETERS.COM @2000

Angles for R.I. = 1.54	69 facets + 16 facets on girdle = 85
4-fold, mirror-image symmetry	96 index
L/W = 1.000 T/W = 0.210 T/L = 0.210 P/W = 0.438 C/W= 0.250	H/W = (P+C)/W+0.02 = 0.708 P/H = 0.619 C/H = 0.353
Vol./W^3 = 0.278	Brightness at 0 degrees tilt for R.I. = 1.54 Brightness at 0° tilt COS = 71.4 ISO = 80.1

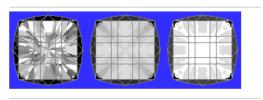
PAVILION

P1	41.70	02-22-26-46-50-70-74-94	Cut to center point.
P2(G)	90.00	02-22-26-46-50-70-74-94	Cut a level girdle, meet P1.
P3	40.87	04-20-28-44-52-68-76-92	Cut to center point.
P4(G)	90.00	04-20-28-44-52-68-76-92	Cut to meet P4(G).
P5	41.00	03-21-27-45-51-69-75-93	Cut to meet girdle.

CROWN

C1	62.00	02-22-26-46-50-70-74-94	Cut to meet girdle.
C2	62.00	04-20-28-44-52-68-76-92	Cut to meet girdle.
C3	34.38	12-36-60-84	Cut to meet girdle.
C4	27.66	06-18-30-42-54-66-78-90	Cut to meet C1,C2,C3.
C5	57.06	96-24-48-72	Cut to meet girdle.
C6	25.83	96-24-48-72	Cut to meet C5.
C7	16.10	12-36-60-84	Cut to meet C3.
C8	11.51	96-24-48-72	Cut to meet C6,C7.
Т	0.00	Table	Cut to meet C7,C8.

GemCad Ray Traces for RI = 1.54



Random Model Cosine Model ISO Model

4 Way Stop - Cutting Remarks

This is a fun one to cut, but it is a little harder than it looks. The straight meets on the crown can be tough to get lined up. This is a good design to cut a large stone in, with the small facets on the crown it pretty much needs to be large. A medium to light saturated material is best and this will work well in, Quartz, Topaz, man-made Sapphire, Spinel, YAG, and CZ with no changes.

Enjoy cutting your 4 Way Stop! Drop me an email to let me know your results and what you've cut, or feel free to inquire if you have any questions or need some help regarding this design.