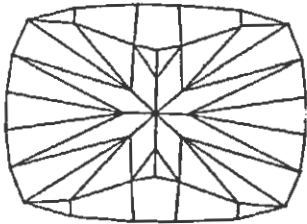
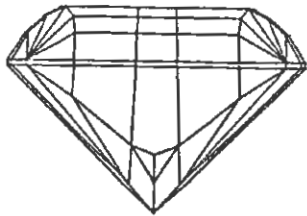
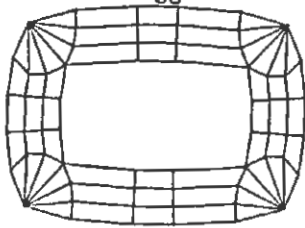
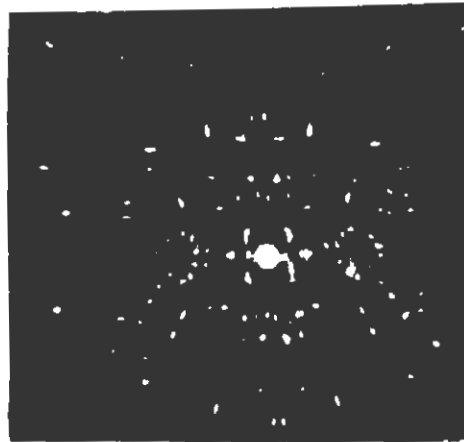


8.046  
HALF BARION

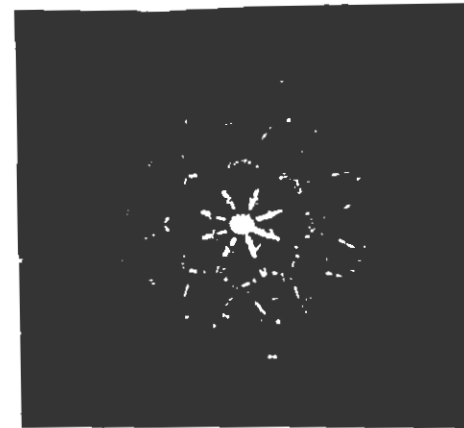
-96-



-96-



8.046 Half Barion



1.006 Standard Round Brilliant

For comparison the pattern characteristic of design 1.006 Standard Round Brilliant is also shown. Both of these light reflection patterns have been obtained using the technique described on page 3. Note the concentration of light in a definite 8-symmetry pattern in the SRB pattern and the more diffuse (light scattering) in design 8.046.

#### LIGHT REFLECTION CHARACTERISTICS OF A 'GOOD' DESIGN

1. Filled in center
2. Wide angle dispersion of reflection pattern
3. Uniform distribution over length and width

One way to evaluate light reflection characteristics of a cut stone is to use the Projector-Screen system. Here we show design 8.046 (cutting details on page 1 of this issue). This qualifies as a successful design because there are no obvious dead spots. Except for the large white spot in the center each spot on the photo represents a path for light being returned from the test stone. This stone was cut in GGG