



SHADING DEVICE MODEL SBS



Diffuse Solar Radiation can be determined by measuring the Direct Beam Radiation using a Normal Incidence Pyrheliometer on a Solar Tracker and the Total Solar Radiation using a Precision Spectral Pyranometer and computing the difference.

However, the Diffuse measurement can be taken by shading the Direct Beam from the pyranometer measuring Total Radiation. The Eppley Laboratory manufactures two standard types of Shading Devices to be used to block the Direct Beam Radiation from a receiving sensor, the Shadow Band Stand and the Shade Disk Kit (to be used on the Automatic Solar Tracker).

The Shadow Band Stand, **Model SBS**, is constructed of anodized aluminum, weighs approximately 24 pounds and uses a 3" band of approximately 25" diameter to shade the pyranometer. The declination setting must be adjusted regularly.