Spectral Database building and Comparison Studies through
Rock and Mineral
data acquisition on the SOC-100 reflectometer
Bethany Choate, Imaging Science

The SOC-100 reflectometer, despite the possibility of measuring previously unrecorded
data, is limited in its acquisition. Size, texture, and heat absorption properties are major
restrictions on samples. The SOC-100 has been measuring hemispherical directional
reflectance of, but is not completely limited to, rocks, minerals, and metals. Results of
these measurements are being used to simultaneously characterize the instrument,
provide a comparison to the SOC-400 reflectometer, and build an extensive
database of rock and mineral spectra.