

Calibration Report: Spectroradiometer

s/n: 6207
ECN: 2008990

13 December 2000

Kevin Larman
Analytical Services & Materials, Inc.
Hampton, Virginia

SUMMARY

Calibration date: 29 August 2000. Next calibration due: 29 August 2002.

A collection, analysis and calibration of data from an Analytical Spectral Devices, Inc., Full Range FieldSpec Radiometer, has been completed. The calibration was performed by the manufacturer, Analytical Spectral Devices, Inc. These data were collected by Analytical Spectral Devices, Inc., on 29 August 2000.

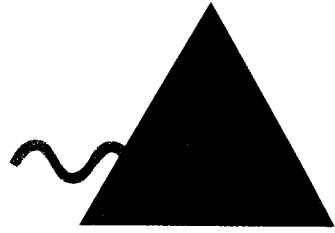
Model : FR

Serial Number : 6207

The instrument response files for each foreoptic are returned on floppy disk from the manufacturer and installed on the computer operating the instrument. These files are 8I62071.RAW, Ni62071, 1i62071, 5i62071, 18i62071, and COS62071. The attached plots describe the standards used in this calibration and describe a typical instrument response to the standard stimuli.

Application:

The instrument response files are utilized by the computer operating the instrument at the time of data collection.



ANALYTICAL
SPECTRAL
DEVICES, INC.

Spectroradiometer Certificate of Calibration

Unit and Calibration No.: *FSFR 6207/1*

Calibration Date: *08/29/00* Lamp No.: *S802* Panel No: *12137-A*

Initial all applicable entries

Wavelength
 Radiometric

Foreoptics:	Bare Fiber	<input checked="" type="checkbox"/>	8 degree	<input checked="" type="checkbox"/>
	1 degree	<input checked="" type="checkbox"/>	10 degree	<input type="checkbox"/>
	2 degree	<input type="checkbox"/>	18 degree	<input checked="" type="checkbox"/>
	3 degree	<input type="checkbox"/>	RCR	<input checked="" type="checkbox"/>
	5 degree	<input checked="" type="checkbox"/>	UW/RCR	<input type="checkbox"/>

All calibrations have been performed according to Analytical Spectral Devices' accepted procedures, using verifiable NIST-traceable irradiance, reflectance and wavelength standards.

Calibration data resides on the ASD instrument's controlling computer's hard drive and/or the controlling software system disk. Instrument response files: ***8I62071.RAW, Ni62071, 1i62071, 5i62071, 18i62071, COS62071.***

Irradiance Standard Vendor, Lamp number and File Name, used for Irradiance and Radiance calculations: *Optronic Laboratories, Lamp S802, LMP62071.ILL*

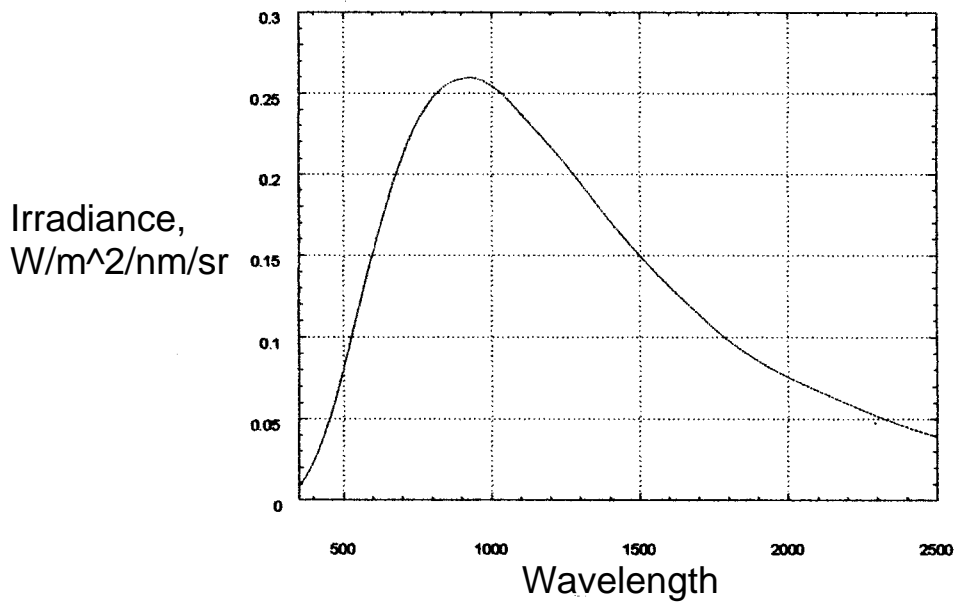
Reflectance Standard Vendor, Standard ID, and File Name, used for Radiance calculations: *Labsphere, Target #12137-A, BSE62071.REF*

ASD Certified Calibration Engineer/Technician:

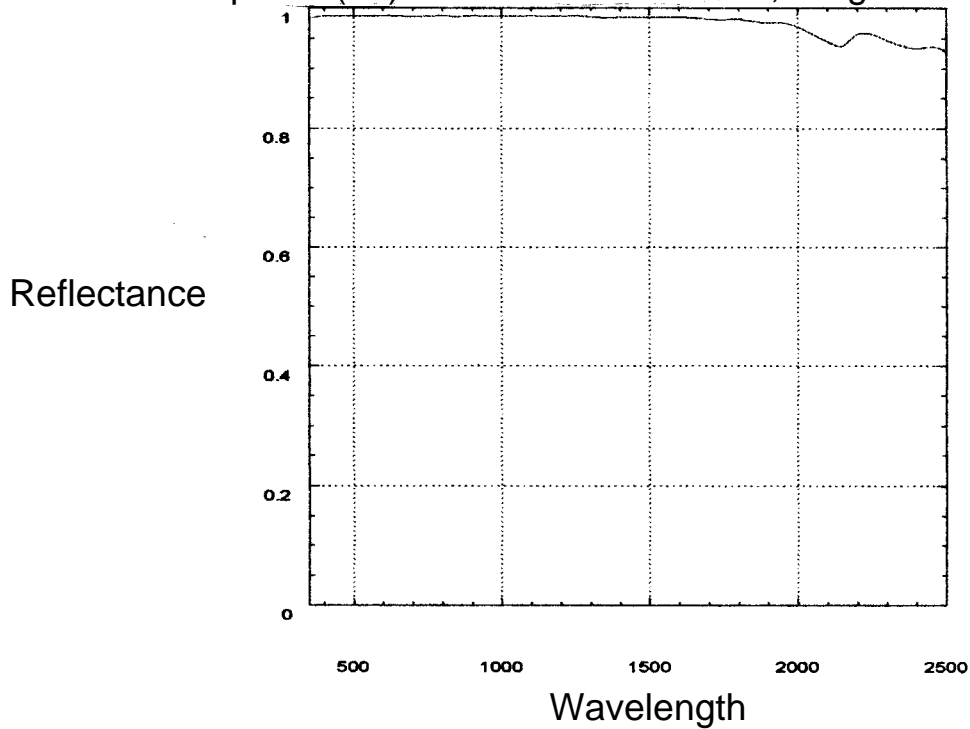
Signature *Dayton Jones* Date *08/29/2000*

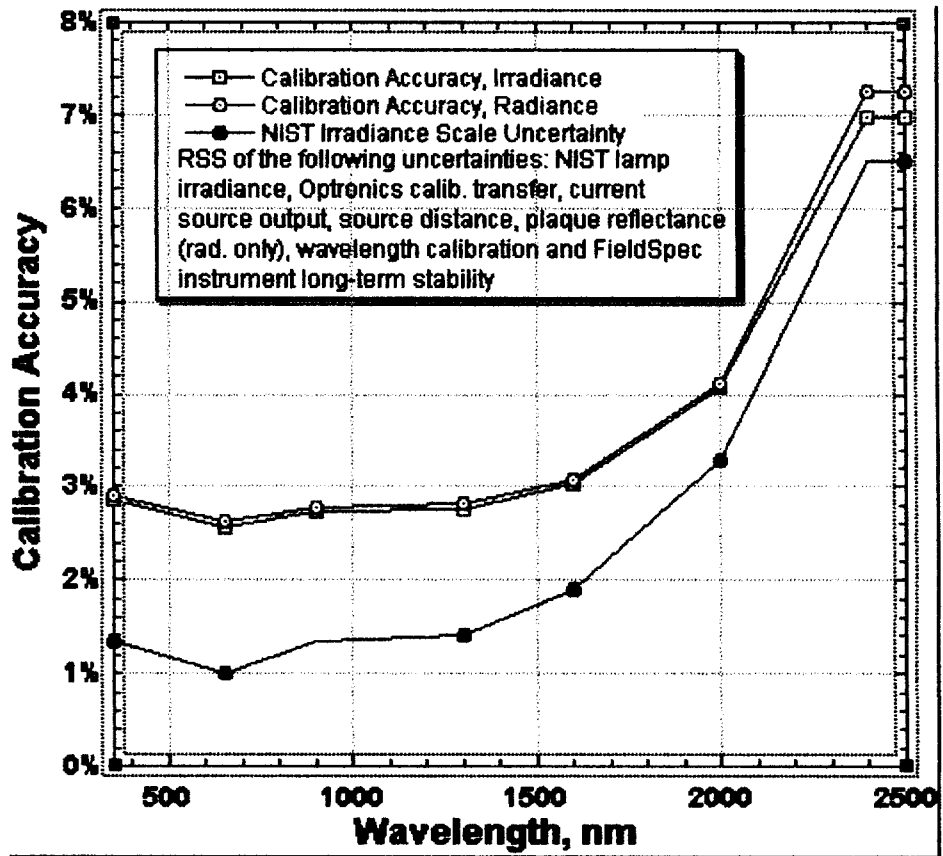
5335 Sterling Drive
Suite A
Boulder, CO 80301 U.S.A.
Phone: 303.444.6522
Fax: 303.444.6825
Web: www.asdi.com

ASD Primary Irradiance Standard, Optronic Laboratories Lamp S802



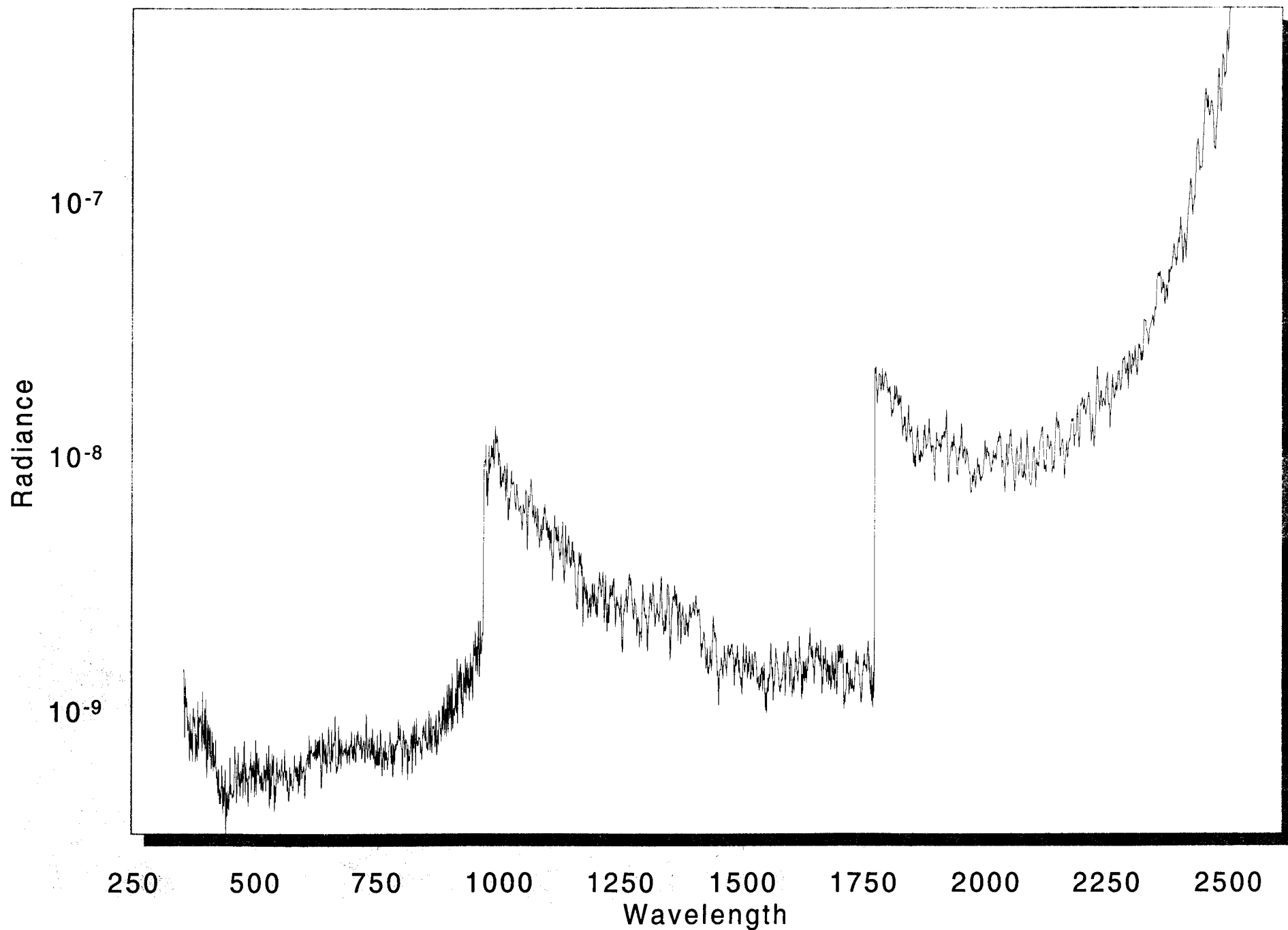
Spectra(tm) Reflectance Standard, Target #12137-A





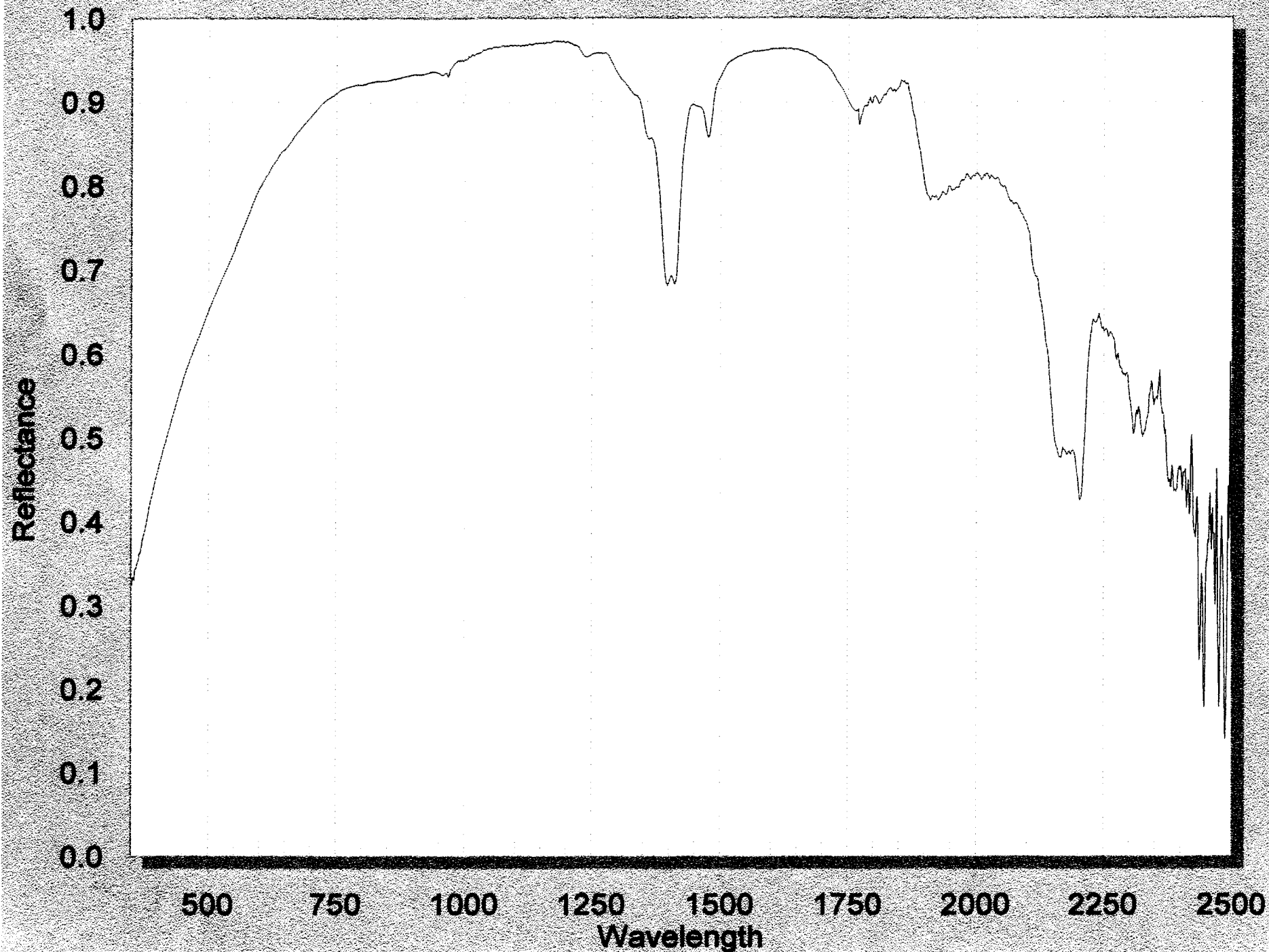
NEDL FRFS 6207_1 08/31/2000

W/cm²/nm/sr



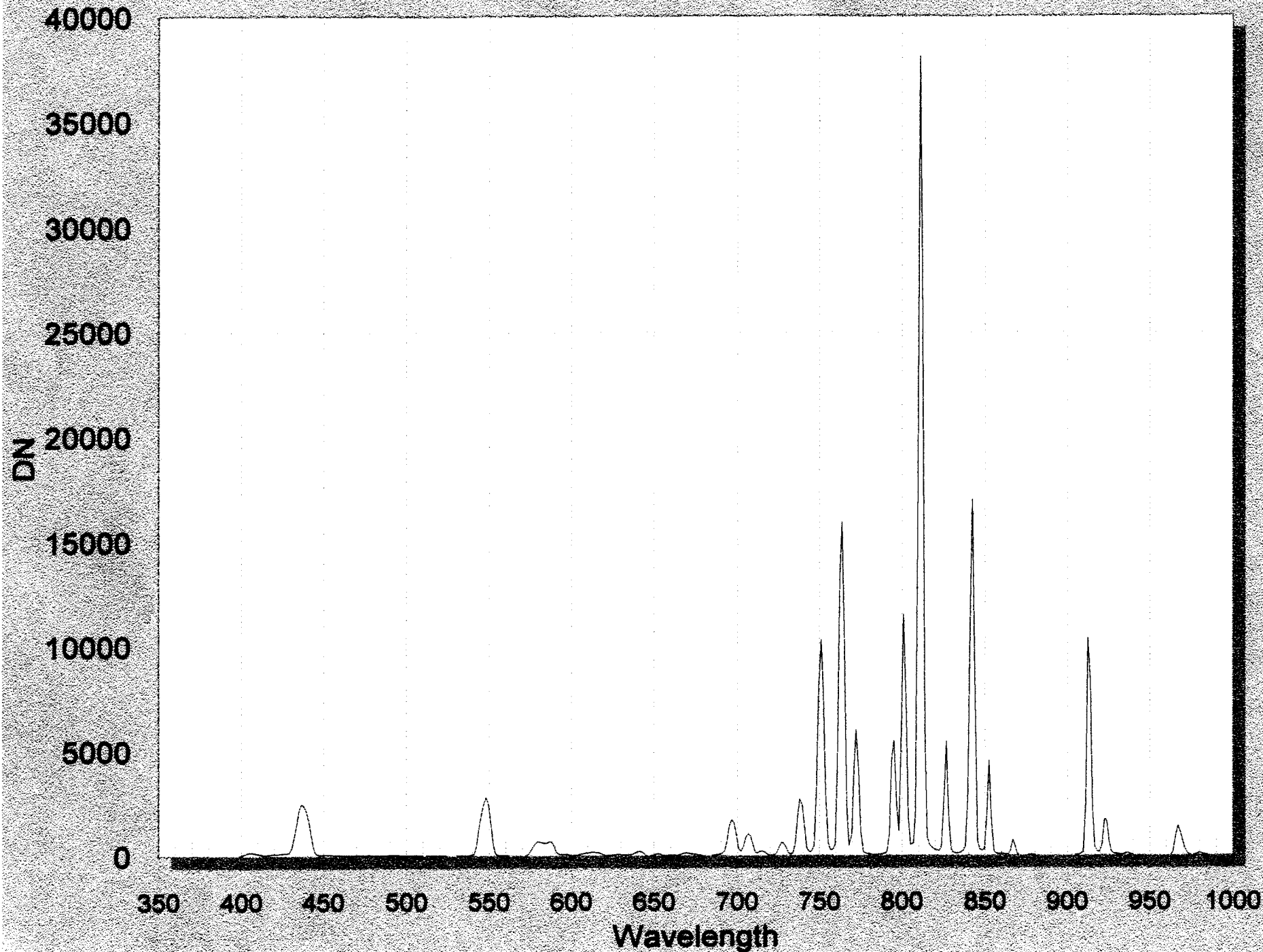
Kaolinite Reflectance Spectrum, FSFR Unit 6207/1, 8/31/00

Reflectance Data



Mercury-Argon Spectrum, FSFR Unit 6207/1, 8/31/00

Raw Data



Mylar Transmittance Spectrum, FSFR Unit 6207/1, 8/31/00

Transmittance Data

