

THE EPPLEY LABORATORY, INC.

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Scientific Instruments
for Precision Measurements
Since 1917

STANDARDIZATION OF EPPLEY TOTAL ULTRAVIOLET RADIOMETER Model TUVR

ENTERED
11 Feb 05

Serial Number: 34176

Spectral Region Measured: 290 to 385 nm

Temperature Compensation Coefficients:

-40 to +25°C: -0.2 % per °C

+25 to +50°C: -0.5 % per °C

This radiometer has been compared with Standard Total Ultraviolet Radiometer, Serial Number 30867 on the roof of Eppley's Research Observatory with an average ambient temperature of 22 °C.

As a result of a series of comparisons, it has been found to have a sensitivity of:

173 $\times 10^{-6}$ volts/watts meter⁻²

The calculation of this constant is based on the fact that the relationship between radiation intensity and emf is rectilinear to intensities of 70 watts meter⁻². This radiometer is linear to within $\pm 2.0\%$ up to this intensity.

The calibration of this instrument is traceable through an Eppley Standard of Spectral Irradiance to the National Institute of Standards and Technology (NIST) through test number 534/237124.

Shipped to:
University of Miami
Ft. Pierce, FL

Date of Test: October 1, 2004

In Charge of Test: *R. T. Graham*

S.O. Number: 60163
Date: February 7, 2005

Reviewed by: *Thomas D. Kulk*

Remarks: