



THE EPPLEY LABORATORY, INC.

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Calibration Certificate

Instrument: Precision Spectral Pyranometer, Model PSP, Serial Number 33103F3

Procedure: This pyranometer was compared in Eppley's Integrating Hemisphere according to procedures described in *ISO 9847 Section 5.3.1* and Technical Procedure, TP01 of The Eppley Laboratory, Inc.'s Quality Assurance Manual on Calibrations.

Transfer Standard: Eppley Precision Spectral Pyranometer, Model PSP, Serial Number 21231F3

Results: **Sensitivity:** $S = 8.04 \mu V / W m^{-2}$
Uncertainty: $U_{95} = \pm 0.91\%$ (95% confidence level, $k=2$)
Resistance: 724Ω at $23^{\circ}C$

Date of Test: January 24, 2014

Traceability: This calibration is traceable to the World Radiation Reference (WRR) through comparisons with Eppley's AHF standard self-calibrating cavity pyrheliometers which participated in the Eleventh International Pyrheliometric Comparisons (IPC XI) at Davos, Switzerland in September-October 2010. Unless otherwise stated in the remarks section below or on the Sales Order, the results of this calibration are "AS FOUND / AS LEFT".

Due Date: Eppley recommends a minimum calibration cycle of five (5) years but encourages annual calibrations for highest measurement accuracy.

Customer: N.O.A.A. FOCI PMEL
Seattle, WA

Signatures:  In Charge of Test:

 Reviewed by:

Eppley SO 64006

Date of Certificate January 29, 2014

Remarks: