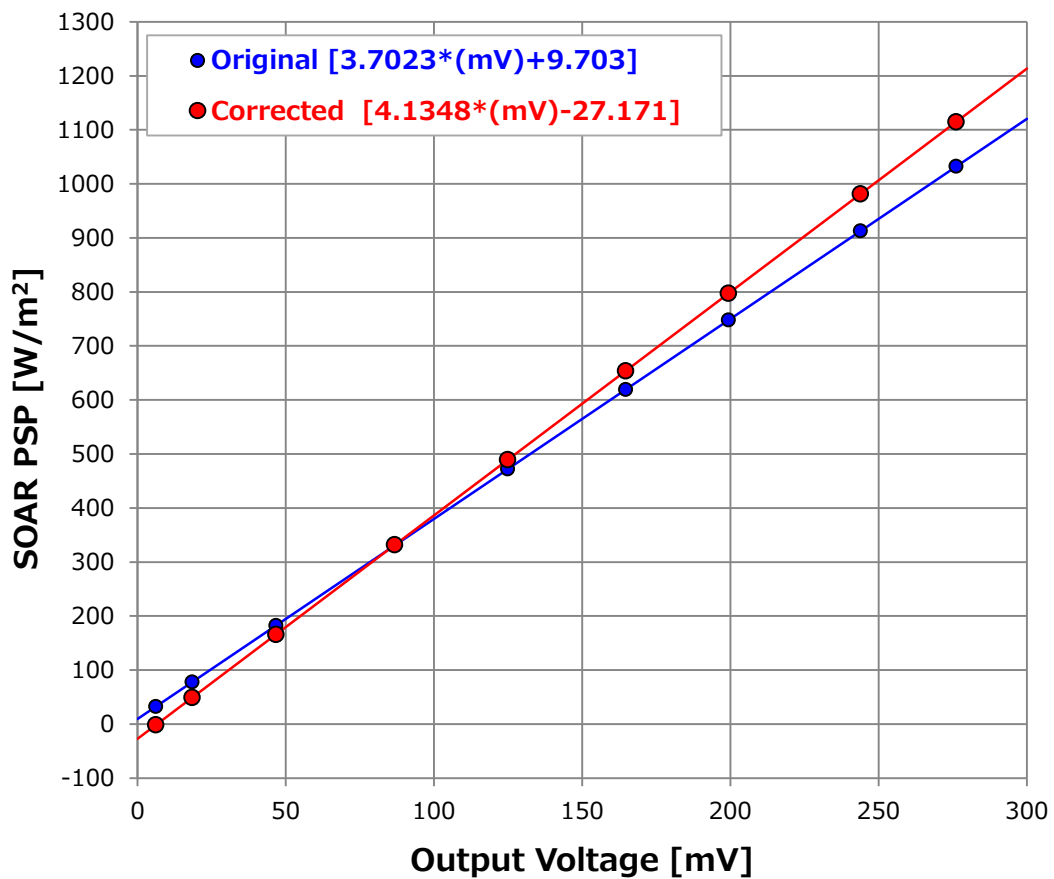


## Calibration Information

Calibration date: 2017/3/29  
 Reference radiometer: PSP [Eppley Lab. inc., USA] (Cal. date 2017/01/14)

**Table 1** Calibration result

Data No.	Distance between the radiometer and the xenon lamp [cm]	Reference		SOAR PSP			Shortwave radiation Corrected [W/m <sup>2</sup> ]
		Shortwave radiation [W/m <sup>2</sup> ]	Standard deviation [W/m <sup>2</sup> ]	Output Voltage [mV]	Shortwave radiation Original [W/m <sup>2</sup> ]	Standard deviation [W/m <sup>2</sup> ]	
0	(darkness)	0.017	0.377	6.114	32.34	0.08	-1.89
1	125.0	49.94	0.51	18.428	77.93	0.24	49.02
2	64.5	166.01	0.33	46.674	182.50	0.31	165.82
3	43.5	330.51	0.44	86.747	330.87	0.12	331.51
4	34.5	488.53	0.81	124.820	471.82	0.57	488.94
5	29.0	649.36	1.55	164.624	619.19	1.50	653.51
6	25.5	795.62	2.12	199.310	747.61	1.11	796.93
7	22.0	982.60	1.95	243.884	912.64	0.88	981.24
8	20.0	1117.29	1.48	276.132	1032.03	1.06	1114.58



**Figure 1** Output voltage vs. Shortwave radiation (Original and Corrected) of SOAR PSP