



Wavelength Calibration Data Sheet

Model: **USB2000**
 Description: USB Fiber Optic Spectrometer
 Grating: 600 Lines Blazed at 400 nm
 Bandwidth: 200-850nm
 Options Installed: UV2/OFLV-2 Detector, L2 Lens, 25um Slit,
 Serial Number: **USB2E3017** **Master**
 Calibration Date: 2/18/02

λ	Pixel #	Predicted λ	$\Delta\lambda$
253.652	200	253.770	-0.116
296.728	316	296.600	0.132
302.150	331	302.104	0.046
313.155	361	313.098	0.057
334.148	419	334.273	-0.125
365.015	504	365.106	-0.091
404.656	614	404.646	0.010
407.781	622	407.505	0.276
435.835	702	435.972	-0.137
546.074	1018	546.075	-0.001
576.959	1109	577.049	-0.090
696.543	1470	696.414	0.129
706.722	1502	706.711	0.011
727.294	1567	727.477	-0.183
738.398	1602	738.576	-0.178
751.465	1643	751.501	-0.036
763.510	1681	763.407	0.103
772.421	1710	772.445	-0.024
794.817	1782	794.703	0.114
801.479	1803	801.145	0.334
811.531	1837	811.528	0.003
826.452	1886	826.386	0.066
840.820	1935	841.119	-0.299

Calibration Coefficients

First Coefficient: 0.37660543
 Second Coefficient: -1.34655E-05
 Third Coefficient: -2.23582E-09
 Intercept: 179.0038997
 Regression Fit: 0.999999757

Stray Light Measurements (AU)

Holmium Oxide (444nm): 1.36
 Yellow Dye: 2.66
 Blue Dye: 3.38
 Molybdate: 2.04
 OG550 Filter: 2.90
 RG850 Filter: 4.00
 FG3 Filter: 1.19