



Wavelength Calibration Data Sheet

Built For: **University of California - Irvine**
 Order Number: **24556**
 Model: **S2000**
 Description: Single Fiber Optic Spectrometer
 Grating: 600 Lines Blazed at 500 nm
 Bandwidth: 350 - 1000 nm
 Options Installed: 25um Slit
 Serial Number: **I2J2912** **Master**

λ	Pixel #	Predicted λ	$\Delta\lambda$
365.015	59	365.069	-0.054
404.656	169	404.572	0.084
407.781	178	407.787	-0.006
435.835	257	435.885	-0.050
546.074	573	546.064	0.010
576.959	663	576.758	0.201
579.065	670	579.132	-0.067
696.543	1024	696.552	-0.009
706.722	1056	706.901	-0.179
727.294	1120	727.461	-0.167
738.398	1154	738.308	0.090
751.465	1195	751.317	0.148
763.510	1234	763.619	-0.109
772.421	1262	772.408	0.013
794.817	1334	794.835	-0.018
801.479	1355	801.330	0.149
811.531	1388	811.492	0.039
826.452	1437	826.483	-0.031
842.465	1490	842.563	-0.098
852.144	1522	852.203	-0.059
866.794	1571	866.865	-0.071
912.297	1725	912.134	0.163
922.450	1760	922.248	0.202
965.778	1914	965.959	-0.181

Calibration Coefficients

First Coefficient: 0.362760534
 Second Coefficient: -1.55822E-05
 Third Coefficient: -2.13952E-09
 Intercept: 343.7211787
 Regression Fit: 0.99999957

Stray Light Measurements (AU)

Holmium Oxide (444nm): 1.37
 Yellow Dye: 2.30
 Blue Dye: 3.09
 Molybdate: N/A
 OG550 Filter: 2.66
 RG850 Filter: 3.95
 FG3 Filter: 1.22