

Sheet1

Monochromator					
Source radiant power (PhiEm)	1.00E-004	watts			
Source Area (Sa)	0.1	cm ²			
Spectral width of source	100	nm	Slit area (SlitAem)	=Hem*Wem/100	cm ²
Wavelength setting (emw)	450	nm	Radiant power input into entrance slit (PhiInEm)	=PhiEm*Sam/(4*PI())*SlitAem/Sa	watts
Slit height (Hem)	5	mm	Spectral bandpass (Sbem)	=RLDem*Wem	nm
Slit width (Wem)	1	mm	Spectral fraction measured	=Sbem/swf	
Transmission factor of monochromator optics (Tem)	0.5		Fraction of emission collected by monochromator solid angle	=Sam/(4*PI())	
Solid angle (Sam)	0.024	sr	Fraction of image area viewed	=SlitAem/Sa	
Reciprocal linear dispersion (RLDem)	3	nm/mm	Radiant power output from exit slit (PhiOutEm)	=PhiInEm*Sbem/swf*Tem	watts