Jonework-2 EEOS X493 Submitted by Sudipta Roman Biswon

 $n^2(\lambda) = 2.555947 - 9.112305e-3 \lambda^2 + 1.706319e-2 \lambda^2$ - 3.920348 e-4 x-4 + 8.8/3931e-5 x-6 - 4.257410e-6 x-8 (a) index at I wavelength /= 587.5618 nm = 0.5875618 MM

.. By nd = 1.6126 93

F= 486.1327nm

(b) Dispersion across F-C bank = n_F-ne C= 656.2725nm

= 1.619970-1.602505 T= 0.610474

(c) Partal dispersion relative to D-C'. $= \frac{n_0 - n_{e'}}{n_F - n_e} = \frac{1.6126 - 1.610013}{0.016474}$

c'=643.846) mm

D = 589.2738 n

= 0.246993

(d) Abbe pe number, $V = \frac{nd-1}{n_F-n_c} = \frac{1.61263-1}{0.010474}$

= 58.4916

this is a crown glass

