Teacher's Signature:_

· Collimeter. Direct Pay Collinator

Teacher's Signature:

Green Colour:

		Vı	N		V2	
	Ms	Vs	Total	MS	٧s	Total
Left	340.5	8	340 - 633	160.5	27	160.95
Agat	19	2	19.033	199	10	199.166
Difference (20)		alline gas <u>naturalization (alline est</u> le en	321.6			38-216
2	•	.*	23			

$$V_1V_1' = 360 - 321.6 = 38.4$$
 $V_2V_2' - 38.216$
 $V_{mean} = \frac{19.2 + 19.108}{2} = 19.154$

$$N = \frac{0.32210\%}{1 \times 346.1} = 600.82$$

le	Page No				
the diffract	ion angle.				
) Then	alculate the wardwester of each colonie				
	or angle. Calculate the wavelength of each colour.				
Calculation	:				
Yellow:	$V_1 - V_1' = 360 - (339.566 - 20.1) = 20.267$				
	V2-V2' = 200.066 - 159.533 = 20.2665				
	Onear = 20.26675				
	2 = sin Omen = 0.346391 = 576.53.				
blue:	V,-V' = 360-(342-6-17-633) = 34.433				
	V2-V2 = 197-166-162-583 = 34.583				
	0 may = 17-254				
	7 = 0.296608 = 493.67.				
	600.82				
Molet:	$v_1v_1' = 360-(345.6-14.033) = 28.433$				
	V2-V2				
	Onean = 14.258				
	$\gamma = 0.246293 = 409.92$				
	600 82				
lesule:					
	Daveleight of Yellow, Blue, and Wolt				
lene	comes out to be 576.53 nm, 493.67 nm				
and	comes out to be 576.53 nm, 493.67 nm 409.92 nm respectively.				
unu					
	Teacher's Signature:				

e beformination of waveleyth of prominent lines

			ر مثله شده کند مهموری <u>محموسی</u> ن روم		Ía	7
lolor	uft	V ₂	Right V ₁	V ₂	mean	1
Yellow	39 9.566	159.53	20.1	20.06	20.26	5 76.53
Blue	342.6	162-58	17.63	197.16	17.25	493.67
Wollt	345.6	165.56	14.03	194-16	14.26	409.42

Least Count of spectro meter =
$$\left(\frac{N}{V}\right) = \left(\frac{1}{60}\right)$$

take Reading = MS + VS * Least Count.

Fast of Soci