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222 and 223 Left The porticles of cather in undulating theory are supposed to move in elipses; when by any means one of the components giving use to this eliptical motion is with drawn then The particles will move in a straight line and te plane polarized the two components giving eise to this motion being at right ango. to each other, the component motions would take place in planes at night ang to each other - This explains why in double repracting crystals The two potations of light are oppositely polarized and why with the replactor the replacet and bransmitted light portions of are oppositely polarized. In Quar of circular polarization, The particles move in Circles 226 and 227 Right-The agency of 1st surface is shown by The rings disspearing when it is not brought into play in order to replace a parties of the light-230 and 231 Lift. 230 and 231 Lift. In case of dank nings The Thickness will - It the and the corresponding defences of water = It the will be 2.0xt + 2 - 2 2xtr + 2 - 2+ 2 - 2x4tt + 2 = r2+ 2 = - 2x4tt + 2 = r2+ 2 = - 2x4tt + 2 = r2+ 2 = - 2x4tt + 2 = - 2x4tt 5 & CO & case of dank ings the thickness will be t. 3t. 5t C, and the corresponding differences of water = Qt + 2 will be 2: + 2 + 2 = 2, 2. 3 h + 2 = 2h, 2. 5 + 2 = 3h funched Dan 13th 1852

Part' above the plain or the (18+ 24.) The neight of Forts Mpper Station Yower Station Att. Ther T= 58:5 I= 54861 Det. Then I'= 59." f, = 54 8 63 1 = 29.64 lon = 29.99 830 6 (1+ T-T'X0,0001) = 30 (1-4×0,0001) = 29.988 bn = <u>29.99 + 29.968</u> = 2.9.989 Log. bn, 29, 989 = 1.476963 l for (-1.6) = 9999934 476894 J, = 54863 = 58.5 1,476897 Sub (by b) 29.64 1.471878 Pera ,005010 $J_{1}+J'=58,5+59=117.5^{-1}$ lug_,005019= T' - T' = 5' 7' - 58.5 = -1.5'3.700617 4.805723 Add A for 117:5 . 000146 Add 13 for 41.4 2.506486 = log-Jub 320.9ft 320.9 above Mer Mation Lower Mithon I-T'= 3° T'= 610 T= 640 t, + t = 127. 5/10 J, = 66° f' = 61.5 1 = 30 lon = 30.199 Log. 30.198 + 6n = 1.479906 6 for 3° = 0,000130 1.480036 Sub log (= 30/ = 1.477 121 -3.464639 .002915= 4.810254 Add A for 12 7.05- = Add B. for 41.4 = 0.00 0146 2.275039 = log of July

And the set

Problem for determining the long by Sumar Calminating Stars Nant Ac, Treenwich. Notes. West Points moons west D's nest Lind 13- 59-25.76 Limb 142 12 m. Sec. 7 46.5-E Librae 14-48-49,29 03 12-20.5 f = 49-23.59 87.4 Nest Dorns. In m see D's M. Link _ 14 - 12 - 29 54.5 10.5 1/2031 5º Librae - 14 - 57 18.3 29 . 38 49.3 l=4-55-50 approx. lat Clovek rate 06 ? 1 mappreciable for the short interval f. = 98 - 49.3 f. - t' = 10 - 94.23 11 = 17 750 see 12h = 43200 see 10h = 4108+ Deco ", = 694. 29 secondo 46.65 " = 1747,09 Sue May 19 L. 13 h 31 m 05. 92 m sec 28-20,44 see 1, 20 U. 13 - 59 - 25.76 29-07.09 52.80 42 = 2 (46.65+52.80) 11 20 2. 14 - 28 - 32.85-29 39.89 11 = 49.72 11 20U. 14 58 32.74 $\begin{array}{c} \Delta_{3} = (52.80 - 46.65) \\ 11 = 6,15 \\ 200 \end{array}$ $a = A \frac{e}{12h} + B(\frac{e}{12h})^{2} + B(\frac{e}{12h})^{3}$ $A = A_{1} - \frac{1}{2}A_{2} + \frac{1}{12}A_{3} = 1722.74$ Observations made May 20. $B = \frac{1}{2} \Delta_2 - \frac{1}{4} \Delta_3 = 23.33$ 1853. Next Points N.Y. $C = \frac{1}{6} \Delta s = 1.02$

To determine the last of West Pointy. 8 Leonis 29,925 30. N. Dec - May 11 th 1853 - 15-23-36% 1160 850 Beading on Limb -35.510 33 1420 45-565 56 Allerometer (+) 50 Zenith Point-+ 6 - 1 Barometer - 29,925 142 45 56.5 Men 116 45 - 33.25 Shermometer 56° 90-[26-0' 23,25] Alt-63-59-36.75 append 28.4 90-[26-0' 23,25 ter A constant - 1075- 475 27+ 28,67 90-64°-00-5, X. 2 K -,07125 25°-59'-54'58 15°-23' 36'18 V ,057 41'- 23'- 31", 38 Lat 34 2 03 125 y usce Majoris ,27,075 A Dec. 54- 30 - 53:9 Reading 15.50 500 Lind 8'- ,02',5-(M)(A) 13-50- 5-3-2,5 1420 - 451 - 564 5 130-7'-6" 760-52'-5-4" 14,5-3 Mr J& Reynolds Caller U.S.M. A 760-53'- 8"53 Siens Artelley 13° - 6' - 51.44 54 30 53.40 24" -1' 4.1-