THE YEAR.

$$\Psi_3 = -\cdot0021 + \cdot0237 \sin(\theta + 144^\circ 46') + \cdot0040 \sin(2\theta + 174^\circ 17') + \cdot0026 \sin(3\theta + 15^\circ 39')$$

PRESSURE OF VAPOUR.

The average changes in the pressure of vapour in two hours that accompany winds from the eight principal points, and the formulæ for finding the most probable change, with the wind blowing from any intermediate point, are given below :

APRIL TO SEPTEMBER.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
−·0057	−·0034	+·0020	+·0035	+·0042	+·0001	−·0073	−·0069

OCTOBER TO MARCH.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
−·0025	+·0009	+·0037	+·0031	+·0017	−·0013	−·0032	−·0039

THE YEAR.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
−·0041	−·0012	+·0025	+·0034	+·0034	−·0007	−·0046	−·0054

APRIL TO SEPTEMBER.

$$\Psi_1 = -\cdot00169 + \cdot00607 \sin(\theta + 305^\circ 49') + \cdot00096 \sin(2\theta + 88^\circ 48') + \cdot00110 \sin(3\theta + 181^\circ 2')$$

OCTOBER TO MARCH.

$$\Psi_2 = -\cdot00018 + \cdot00585 \sin(\theta + 330^\circ 26') + \cdot00034 \sin(2\theta + 287^\circ 6') + \cdot00022 \sin(3\theta + 243^\circ 26')$$

THE YEAR.

$$\Psi_3 = -\cdot00084 + \cdot00479 \sin(\theta + 312^\circ 43') + \cdot00056 \sin(2\theta + 86^\circ 44') + \cdot00037 \sin(3\theta + 216^\circ 15')$$

If in the nine foregoing formulæ, the variable angle (θ) be made equal in succession to 0, 11° 15′ (11° 15′)×2, (11° 15′)×3, &c. &c. ..... (11° 15′)×31, the changes of pressure will be found which would most probably occur if the wind were to blow steadily for two hours from each of the thirty-two points of the compass.

The results are given in the annexed Table.