

By Formulæ (1) and (2).

	°	'	''	
$\frac{H}{Z}$	...	...	...	$2 \cos. 33 \ 20 \ 48 = 19.843748$
l'	...	...	...	$\sin. 82 \ 26 \ 35 = 9.996211$
p	...	...	...	$\sin. 37 \ 07 \ 30 = 9.780717$
				<u>59 47 2</u> <u>19.620676</u>
				<u>sin. 40 15 9</u> <u>9.810338</u>
				<u>sin. 100 2 11 = 9.993303</u>
				<u>sin. 19 31 53 = 9.524166</u>
				<u>19.517469</u>
				<u>sin. 35 0 47 = 9.758734</u>
				<u>2</u> <u>=====</u>
				<u>70 1 34</u>
m'	...	...	...	<u>19 58 26</u>

D's S. D.	Cor.	Cor.	D's H. Px.	Px. in A. = H. Px. Cos. App. Alt.	
				Px. nearly.	T. Px.
$\begin{array}{r} ' \quad '' \\ 15 \ 40.7 \\ 5 \end{array}$	$\begin{array}{r} '' \\ - \ 6.2 \\ 9.6 \end{array}$	$\begin{array}{r} '' \\ - \ 22.6 \\ 9.6 \end{array}$	$\begin{array}{r} ' \quad '' \\ 57 \ 24.4 \\ 18.0 \end{array}$	$\begin{array}{r} 3419 = 3.533899 \\ \text{Cos. } m' = 9.973078 \end{array}$	$\begin{array}{r} 3419 = 3.533899 \\ \text{Cos. } m'' = 9.975452 \end{array}$
$\begin{array}{r} 15 \ 35.7 \\ \text{Aug. } 5.5 \end{array}$	$\begin{array}{r} 372 \\ 558 \end{array}$	$\begin{array}{r} 1356 \\ 2034 \end{array}$	$\begin{array}{r} 57 \ 6.4 \\ 7.0 \end{array}$	$\begin{array}{r} 3.506977 \end{array}$	$\begin{array}{r} 3231 \quad 3.509351 \end{array}$
$\begin{array}{r} 15 \ 41.2 \end{array}$	$\begin{array}{r} 59.52 \\ 5 \end{array}$	$\begin{array}{r} 216.9 \\ 18.0 \end{array}$	$\begin{array}{r} 56 \ 59.4 \end{array}$		$\begin{array}{r} 53.51 \end{array}$

	°	'	''
m'	=	19	58 26
R. & P.	-	51	16
m	=	19	7 10
		<u>=====</u>	

	°	'	''
d	=	102	7 38
	+	15	41
	+	15	50
		<u>=====</u>	
		102	39 9
		<u>=====</u>	

Rejecting Seconds :
 $d = 102 \ 39 \ 0 \therefore 9''$ is to be added to $D = T.$ Cent. Dist.
 $s = 19 \ 7 \ 0$
 $m = 45 \ 36 \ 0$ } Altitudes used in Computation.

$$\text{Cos. } \theta = \sqrt{\sec. s \cdot \sec. m \cdot \cos. x \cdot \cos. (x - d) \cdot \cos. m' \cdot \cos. s'}$$
$$\text{Sin. } \frac{D}{2} = \sqrt{\sin. \left(\frac{m' + s'}{2} + \theta \right) \cdot \sin. \left(\frac{m' + s'}{2} - \theta \right)}$$