

$\frac{H}{2} \dots 2 \cos. \overset{\circ}{20} \overset{'}{33} \overset{''}{52} = 19^{\circ}942810.$
 $p \dots \sin. 77 \ 34 \ 25 = 9^{\circ}989702$
 $p' \dots \sin. 37 \ 7 \ 30 = 9^{\circ}780717$
57 20 55 19^{\circ}713229
 $\theta \dots \sin. 45 \ 27 \ 22$ 9^{\circ}856614
sin. 103 18 17 = 9^{\circ}988185
sin. 11 23 33 = 9^{\circ}295630
19^{\circ}283815
sin. 26 0 15 9^{\circ}641907
2
52 0 30
 $s' \dots + 37 \ 59 \ 30$
Ref. + 1 13
38 0 43
s \dots 38 0 43

To compute True and Approximate Altitude of $\mathcal{D}$ m' and m .

$\frac{1}{2}$ M. Dist.	In Arc.	$\mathcal{D}$'s R. A.	Cor.	Cor.	$\mathcal{D}$'s N. P. D.
H. M. S.		H. M. S.			$^{\circ} \quad ' \quad ''$
23 8 36.23	0 11 48.6	23 7 37.55	116.6	153.15	6 9 49s.
0 23 37.51	60	58.3	29.14	.3	7 39
0 11 48.59	11 48 36	23 8 36.23	.5	459.45	6 2 10
	2 57 9		58.30	7.39	96 2 10

By Formulæ (1) and (2).

$2 \cos. 2 \ 57 \ 9 = 19^{\circ}998848$
 $\sin. 96 \ 2 \ 10 = 9^{\circ}997586$
 $\sin. 37 \ 7 \ 30 = 9^{\circ}780717$
66 34 50 19^{\circ}777151
 $\sin. 50 \ 41 \ 15$ 9^{\circ}888575
 $\sin. 117 \ 16 \ 5 = 9^{\circ}948840$
 $\sin. 15 \ 53 \ 35 = 9^{\circ}437501$
19^{\circ}386341
 $\sin. 29 \ 33 \ 43$ 9^{\circ}693170
2
59 7 26
 $m' \dots 30 \ 52 \ 34$
30 52 34

$\mathcal{D}$ ' S. D.	Cor.	Cor.	$\mathcal{D}$'s H. Px.	Px. Alt. = H. Px. Cos. App. Alt.	
				Px. nearly.	T. Px.
$\overset{'}{15} \ \overset{''}{34} \ .7$.3	+ $\overset{''}{6}$.5	$21^{\circ}9$.5	$\overset{'}{57} \ \overset{''}{2} \ .4$.9	3416 = 3.533518 Cos. $m' = 9.933671$	3416 = 3.533518 Cos. $m'' = 9.937238$
<u>15 35.0</u> Aug. 7.7	<u>3.0</u>	<u>1095</u>	<u>57 3.3</u> Red. 7.0	<u>2932 = 3.467189</u>	<u>2956 3.470756</u>
15 42.7	.3	.9	56 56.3		<u>49.16</u>

$m' = 30 \ 52 \ 34$	$d = 50 \ 51 \ 53$
Px. — 49 16	$\mathcal{D}$'s S. D. — 15 43
30 3 18	<u>50 36 10</u>
Ref. . . + 1 35	
<u>30 4 53</u>	