

Table of Offsets for Straight Line of Position

	Distance along the Line of Position from the intercept point									
	0 nm	5 nm	10 nm	15 nm	20 nm	25 nm	30 nm	35 nm	40 nm	45 nm
Altitude										
0° 00'	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
30° 00'	00.0	00.0	00.0	00.0	00.0	00.1	00.1	00.1	00.1	00.2
40° 00'	00.0	00.0	00.0	00.0	00.1	00.1	00.1	00.2	00.2	00.3
50° 00'	00.0	00.0	00.0	00.0	00.1	00.1	00.2	00.2	00.3	00.3
55° 00'	00.0	00.0	00.0	00.0	00.1	00.1	00.2	00.3	00.3	00.4
60° 00'	00.0	00.0	00.0	00.1	00.1	00.2	00.2	00.3	00.4	00.5
62° 00'	00.0	00.0	00.0	00.1	00.1	00.2	00.2	00.3	00.4	00.5
64° 00'	00.0	00.0	00.0	00.1	00.1	00.2	00.3	00.4	00.5	00.6
66° 00'	00.0	00.0	00.0	00.1	00.1	00.2	00.3	00.4	00.5	00.7
68° 00'	00.0	00.0	00.0	00.1	00.1	00.2	00.3	00.4	00.5	00.7
70° 00'	00.0	00.0	00.0	00.1	00.2	00.2	00.4	00.5	00.6	00.8
71° 00'	00.0	00.0	00.0	00.1	00.2	00.3	00.4	00.5	00.7	00.9
72° 00'	00.0	00.0	00.0	00.1	00.2	00.3	00.4	00.5	00.7	00.9
73° 00'	00.0	00.0	00.0	00.1	00.2	00.3	00.4	00.6	00.8	01.0
74° 00'	00.0	00.0	00.1	00.1	00.2	00.3	00.5	00.6	00.8	01.0
75° 00'	00.0	00.0	00.1	00.1	00.2	00.3	00.5	00.7	00.9	01.1
76° 00'	00.0	00.0	00.1	00.1	00.2	00.4	00.5	00.7	00.9	01.2
77° 00'	00.0	00.0	00.1	00.1	00.3	00.4	00.6	00.8	01.0	01.3
78° 00'	00.0	00.0	00.1	00.2	00.3	00.4	00.6	00.8	01.1	01.4
79° 00'	00.0	00.0	00.1	00.2	00.3	00.5	00.7	00.9	01.2	01.5
80° 00'	00.0	00.0	00.1	00.2	00.3	00.5	00.7	01.0	01.3	01.7
80° 30'	00.0	00.0	00.1	00.2	00.3	00.5	00.8	01.1	01.4	01.8
81° 00'	00.0	00.0	00.1	00.2	00.4	00.6	00.8	01.1	01.5	01.9
81° 30'	00.0	00.0	00.1	00.2	00.4	00.6	00.9	01.2	01.6	02.1
82° 00'	00.0	00.0	00.1	00.2	00.4	00.6	00.9	01.3	01.7	02.1
82° 30'	00.0	00.0	00.1	00.2	00.4	00.7	01.0	01.4	01.8	02.2
83° 00'	00.0	00.0	00.1	00.3	00.5	00.7	01.1	01.5	01.9	02.4
83° 30'	00.0	00.0	00.1	00.3	00.5	00.8	01.2	01.6	02.0	02.6
84° 00'	00.0	00.0	00.1	00.3	00.5	00.9	01.2	01.7	02.2	02.8
84° 30'	00.0	00.0	00.2	00.3	00.6	01.0	01.4	01.9	02.4	03.1
85° 00'	00.0	00.0	00.2	00.4	00.7	01.0	01.5	02.1	02.7	03.4
85° 30'	00.0	00.0	00.2	00.4	00.7	01.2	01.7	02.3	03.0	03.8
86° 00'	00.0	00.1	00.2	00.5	00.8	01.3	01.9	02.6	03.4	04.3
86° 30'	00.0	00.1	00.2	00.5	01.0	01.5	02.2	02.9	03.8	04.9
87° 00'	00.0	00.1	00.3	00.6	01.1	01.7	02.5	03.4	04.5	05.7
87° 30'	00.0	00.1	00.3	00.8	01.3	02.1	03.0	04.1	05.4	06.9
88° 00'	00.0	00.1	00.4	00.9	01.7	02.7	03.8	05.2	06.9	08.8
88° 30'	00.0	00.2	00.6	01.3	02.3	03.5	05.1	07.1	09.4	12.1
89° 00'	00.0	00.3	00.8	01.9	03.4	05.5	08.0	11.3	15.3	20.3

The above Table of Offsets gives corrections (in nautical miles) to the straight Line of Position (LoP) as drawn on a plotting sheet to provide a closer approximation of the arc of the "circle of equal altitude", a circle of radius equal to the zenith distance. The corrections are offsets of points on the LoP and are drawn at right angles to the LoP in the direction of the observed object. The offset points are joined to obtain the arc of the "circle of equal altitude". Usually, the desired approximation of the arc can be obtained by drawing a straight line through two offset points.

The magnitude of the offsets depend on the observed Altitude and on the distance along the LoP from the intercept point to the offset point.

