Sight Reduction Form

Section I: Observations and Corrections

1. **Celestial Body**	Sun	
2. **Apparent Altitude**	NA	Index Correction
	+ -4.1′	Dip Correction
	+ 26° 18′	Sextant Altitude
	26° 13.9′	**Total Apparent Altitude (*ha*)**
3. **Observed Altitude**	+ 14.3′	Altitude Correction
	+ NA	Additional Corrections (Atmospheric)
	+ NA	Additional Corrections (Mars/Venus/Moon)
	26°28.2′	**Total Observed Altitude (*ho*)**

Section II: Time and Dead Reckoning

4. **Date (GMT)**	12/25/14
5. **DR Latitude**	N30° 12′
6. **DR Longitude**	W60° 10′
7. **Time (GMT)**	13:35:09

Section III: Latitude and Longitude

8. **GHA**	14°59.2′	Tabulated GHA
	+8°47.3′	GHA Increment
	+ NA	SHA (stars) or *v*-correction (Moon)
	23°46.5′	**Total GHA**
9. **LHA**	W60°46.5′	(**a**) Assumed Longitude (E. Long = 60′-GHA min.)
	+ 360°	(**b**) +/- 360° if **LHA** less than 0° or greater than 360°
	323°	**Total LHA** (W. Long. = *GHA-a+b*; E. Long. = *GHA*+a+*b*)
10. **Declination**	S23°23.1′	Declination (*d*-corr'n factor: __0.1′__)
	+(-0.1′)	*d*-correction
	S23°23.0′	**Total Declination** (Dec.)
11. **Assumed Latitude**	N30°	**Same** / **Contrary** (compared to Dec. hemisphere)

Section IV: Determining a Line of Position

12. **Computed Altitude**	26°11.2′	Tabulated *hc* (*d* __-49.0′__)
	+(-18.8′)	Declination Increment (Dec. minutes/60 times *d*)
	25°52.4′	**Total Computed Altitude (*hc*)**
13. **Altitude Intercept**	26°28.2′	(***ho*** or ***hc***) whichever is larger. ***ho*** = Section I, 3.
	-25°52.4′	(***ho*** or ***hc***) whichever is smaller. ***hc*** = Section IV, 12.
	35.8′ (T / A)	**Intercept** (Toward if *ho* > *hc*, Away if *ho* < *hc*)
14. **Azimuth Angle (Z)**	141.9°	
15. **Azimuth (Zn)**	141.9°	**N Lat.:** LHA > 180°, Zn=Z | LHA < 180°, Zn=360°-Z **S Lat.:** LHA > 180°, Zn=180°-Z | LHA < 180°, Zn=180°+Z