Declination of the sun is zero at 1446 Z, Sept. 22, 2012

Upper limb is on the horizon when the Hc is -50.0'.
Azimuth varies from 88.6 at 60 N to 91.4 at 60 S.

Celestial Navigation Data for 2012 Sep 22 at 14:46:00 UT

For Assumed Position: Latitude 0 00.0
Longitude W 134 12.1

	Almanac Data				Altitude Corrections			
Object	GHA	Dec	Hc	Zn	Refr	SD	PA	Sum
	o '	o '	o '	o	' '	'	'	
SUN	43 22.1	0 00.0	- 0 50.0	90.0	---	---	---	---

Celestial Navigation Data for 2012 Sep 22 at 14:46:00 UT

For Assumed Position: Latitude N 32 00.0
Longitude W 134 21.1

	Almanac Data				Altitude Corrections			
Object	GHA	Dec	Hc	Zn	Refr	SD	PA	Sum
	o '	o '	o '	o	' '	'	'	
SUN	43 22.1	0 00.0	- 0 50.0	89.5	---	---	---	---

Celestial Navigation Data for 2012 Sep 22 at 14:46:00 UT

For Assumed Position: Latitude N 60 00.0
Longitude W 135 02.2

	Almanac Data				Altitude Corrections			
Object	GHA	Dec	Hc	Zn	Refr	SD	PA	Sum
	o '	o '	o '	o	' '	'	'	
SUN	43 22.1	0 00.0	- 0 50.0	88.6	---	---	---	---

Celestial Navigation Data for 2012 Sep 22 at 14:46:00 UT

For Assumed Position: Latitude S 32 00.0
Longitude W 134 21.1

Almanac Data					Altitude Corrections			
Object	GHA	Dec	Hc	Zn	Refr	SD	PA	Sum
	o '	o '	o '	o	'	'	'	'
SUN	43 22.1	0 00.0	- 0 50.0	90.5	---	---	---	---

Celestial Navigation Data for 2012 Sep 22 at 14:46:00 UT

For Assumed Position: Latitude S 60 00.0
Longitude W 135 02.0

Almanac Data					Altitude Corrections			
Object	GHA	Dec	Hc	Zn	Refr	SD	PA	Sum
	o '	o '	o '	o	'	'	'	'
SUN	43 22.1	0 00.0	- 0 50.0	91.4	---	---	---	---

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Center of sun on the horizon, azimuth is 90 at all latitudes.

Celestial Navigation Data for 2012 Sep 22 at 14:46:00 UT

For Assumed Position: Latitude 0 00.0
Longitude W 133 22.1

Almanac Data					Altitude Corrections			
Object	GHA	Dec	Hc	Zn	Refr	SD	PA	Sum
	o '	o '	o '	o	'	'	'	'
SUN	43 22.1	0 00.0	0 00.0	90.0	---	---	---	---

Celestial Navigation Data for 2012 Sep 22 at 14:46:00 UT

For Assumed Position: Latitude N 60 00.0
Longitude W 133 22.1

Almanac Data					Altitude Corrections			
Object	GHA	Dec	Hc	Zn	Refr	SD	PA	Sum
	o '	o '	o '	o	'	'	'	'
SUN	43 22.1	0 00.0	+ 0 00.1	90.0	---	---	---	---

Celestial Navigation Data for 2012 Sep 22 at 14:46:00 UT

For Assumed Position: Latitude S 60 00.0
Longitude W 133 22.1

	Almanac Data				Altitude Corrections			
Object	GHA	Dec	Hc	Zn	Refr	SD	PA	Sum
	o '	o '	o '	o	'	'	'	'
SUN	43 22.1	0 00.0	0 00.0	90.0	---	---	---	---