

EPA VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 9 203A 203B Other: _____

Form Number _____ Page 1 Of 2
 Continued on VEO Form Number _____

Company Name: Florida Rock Division (Uulead)
 Facility Name: # 0510024
 Street Address: 413 S. INDUSTRIAL LOOP
 City: Labelle State: FL Zip: _____

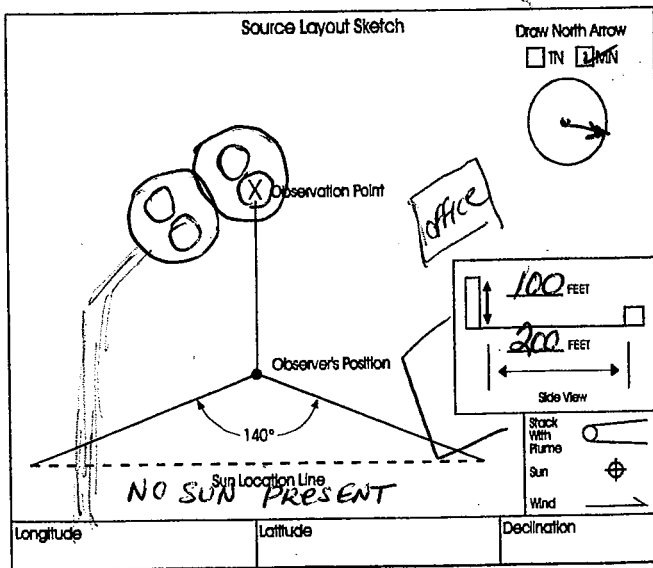
Process: loading cement Unit #: 2 Operating Mode: NORMAL
 Control Equipment: baghouse Operating Mode: 100%

Describe Emission Point
NE baghouse - N silo closest
26.6 tons/hr
 Height of Emiss. Pt. Start: ~100' End: ~100' Height of Emiss. Pt. Rel. to Observer Start: ~100' End: ~100'
 Distance to Emiss. Pt. Start: ~200' End: ~200' Direction to Emiss. Pt. (Degrees) Start: 259 End: 259

Vertical Angle to Obs. Pt. Start: ~190 End: ~190 Direction to Obs. Pt. (Degrees) Start: 259 End: 259
 Distance and Direction to Observation Point from Emission Point Start: N/A End: N/A

Describe Emissions
 Start: NONE End: NONE
 Emission Color: N/A End: N/A Water Droplet Plume: Attached Detached None

Describe Plume Background
 Start: SKY End: SKY
 Background Color: grey/white Sky Conditions: OVERCAST End: SAME
 Wind Speed: 0-5mph End: 0-5mph Wind Direction: E-NE End: E-NE
 Ambient Temp: 75°F Wet Bulb Temp.: _____ RH Percent: 70%



Additional Information: cement
26.16 tons loaded
SUN WAS NOT PRESENT FOR TEST DUE TO OVERCAST WEATHER CONDITIONS. USED U.S. NAVAL OBS. ASTRONOMICAL DATA FOR SUN AZIMUTH & ALTITUDE ON APRIL 22, 2013 TO DETERMINE TEST POSITION WAS CORRECT FOR SUN ANGLE FOR VALID TEST (SEE ATTACHED DATA SHEET.)

Observation Date	Time Zone	Start Time	End Time				
4/22/13	EST	9:12AM	11:06AM				
Min	Sec	0	15	30	45	Comments	
1	0	0	0	0	0		
2	0	0	0	0	0		
3	0	0	0	0	0		
4	0	0	0	0	0		
5	0	0	0	0	0		
6	0	0	0	0	0		
7	0	0	0	0	0		
8	0	0	0	0	0		
9	0	0	0	0	0		
10	0	0	0	0	0		
11	0	0	0	0	0		
12	0	0	0	0	0		
13	0	0	0	0	0		
14	0	0	0	0	0		
15	0	0	0	0	0		
16	0	0	0	0	0		
17	0	0	0	0	0		
18	0	0	0	0	0		
19	0	0	0	0	0		
20	-	-	-	-	-	10:31 walk ^{to} check pressure ^{of} tank lines on trucks.	
21	-	-	-	-	-	" "	
22	-	-	-	-	-	" "	
23	-	-	-	-	-	" "	
24	0	0	0	0	0		
25	0	0	0	0	0		
26	0	0	0	0	0		
27	0	0	0	0	0		
28	0	0	0	0	0		
29	0	0	0	0	0		
30	0	0	0	0	0		

Observer's Name (Print): Robert J. Stewart
 Observer's Signature: Robert J. Stewart Date: 4/22/13
 Organization: FURP
 Certified By: E.T.A. Date: 2/13/13

CAST WEATHER CONDITIONS. USED U.S. NAVAL OBS. ASTRONOMICAL DATA FOR SUN AZIMUTH & ALTITUDE ON APRIL 22, 2013 TO DETERMINE TEST POSITION WAS CORRECT FOR SUN ANGLE FOR VALID TEST (SEE ATTACHED DATA SHEET.)

EPA VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 9 203A 203B Other: _____

Company Name
FLORIDA ROCK DIV.

Facility Name
0510024

Street Address

City State Zip

Process Unit # Operating Mode

Control Equipment Operating Mode

Describe Emission Point
NE

Height of Emiss. Pt. Height of Emiss. Pt. Rel. to Observer

Start End Start End

Distance to Emiss. Pt. Direction to Emiss. Pt. (Degrees)

Start End Start End

Vertical Angle to Obs. Pt. Direction to Obs. Pt. (Degrees)

Start End Start End

Distance and Direction to Observation Point from Emission Point

Start End

Describe Emissions

Start End

Emission Color Water Droplet Plume

Start End Attached Detached None

Describe Plume Background

Start End

Background Color Sky Conditions

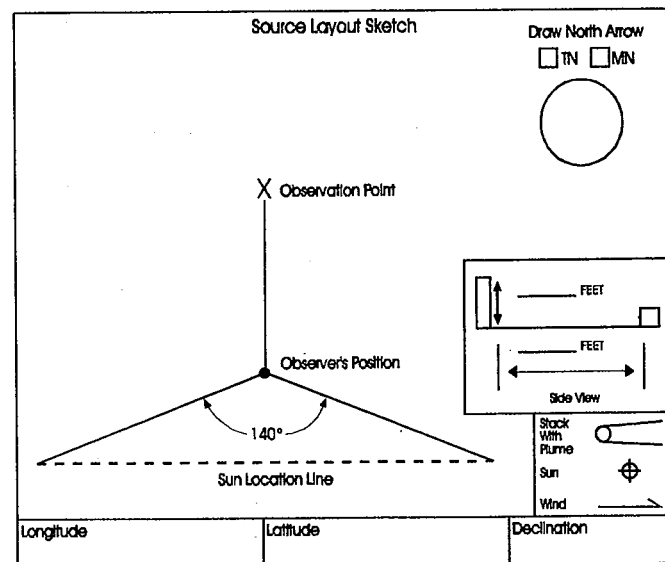
Start End Start End

Wind Speed Wind Direction

Start End Start End

Ambient Temp. Wet Bulb Temp. RH Percent

Start End Start End



Additional Information

Form Number Page **2** Of **2**

Continued on VEO Form Number

Sec Min	Time Zone				Start Time	End Time
	0	15	30	45		
	4/22/13				EST	
						11:06 AM
						Comments
1	0	0	0	0		
2	0	0	0	0		
3	0	0	0	0		
4	0	0	0	0		
5	0	0	0	0		
6	0	0	0	0		
7	0	0	0	0		
8	0	0	0	0		
9	0	0	0	0		
10	0	0	0	0		
11	0	0	0	0		
12	0	0	0	0		
13	0	0	0	0		
14	0	0	0	0		
15	0	0	0	0		
16	0	0	0	0		
17	0	0	0	0		
18	0	0	0	0		
19	0	0	0	0		
20	0	0	0	0		
21	0	0	0	0		
22	0	0	0	0		
23	0	0	0	0		
24	0	0	-	-		done pumping
25						
26						
27						
28						
29						
30						

Observer's Name (Print)
Robert J. Stewart

Observer's Signature
Robert J. Stewart

Organization
FDEP

Certified By
E.J.A.

Date
4/22/13

Date
2/13/13

EPA VISIBLE EMISSION OBSERVATION FORM 1

Form Number	Page <u>1</u> of <u>2</u>
Continued on VEO Form Number	

Method Used (Circle One)
 Method 9 203A 203B Other: _____

Company Name: Florida Rock Div (VULCAN)
 Facility Name: #0510024
 Street Address: 413 S. INDUSTRIAL LOOP
 City: LABELLE State: FL Zip: _____

Process: loading cement Unit #: 1 Operating Mode: NORMAL
 Control Equipment: baghouse Operating Mode: 11 PSI

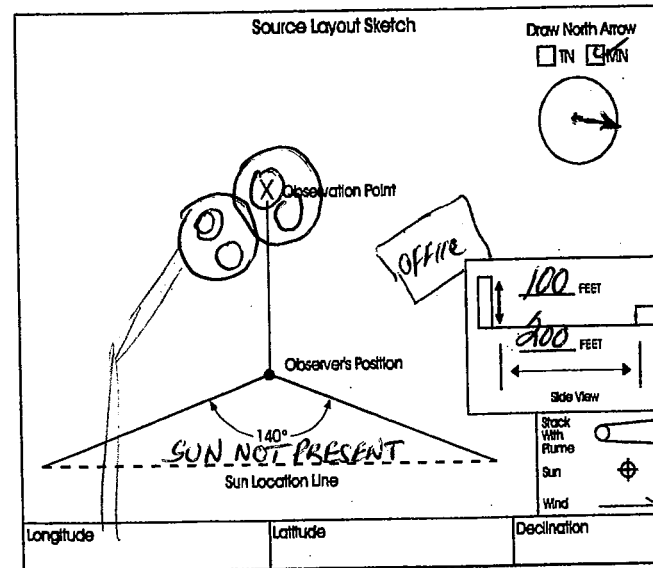
Describe Emission Point
NW baghouse-north silo
27.1 tons/hr

Height of Emiss. Pt. Height of Emiss. Pt. Rel. to Observer
 Start 2100' End 2100' Start 2100' End 2100'
 Distance to Emiss. Pt. Direction to Emiss. Pt. (Degrees)
 Start 2200' End 2200' Start 259 End 259

Vertical Angle to Obs. Pt. Direction to Obs. Pt. (Degrees)
 Start 2190 End 2190 Start 259 End 259
 Distance and Direction to Observation Point from Emission Point
 Start N/A End N/A

Describe Emissions
 Start NONE End NONE
 Emission Color Water Droplet Plume
 Start N/A End N/A Attached Detached None

Describe Plume Background
 Start SKY End SKY
 Background Color Sky Conditions OVERCAST
 Start grey/white End SAME Start BROKEN End SAME
 Wind Speed Wind Direction
 Start 0-5 mph End SAME Start E-NE End E-NE
 Ambient Temp. Wet Bulb Temp. RH Percent
 Start 27.5°F End 27.7°F 90%



Additional Information
26.18 tons cement loaded.
SUN NOT PRESENT FOR TEST DUE TO OVERCAST

Sec Min	Time Zone				Comments
	0	15	30	45	
Observation Date: <u>4/22/13</u> Start Time: <u>9:12AM</u> End Time: <u>11:08AM</u>					
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	-	-	-	-	check pressure on tanks
21	-	-	-	-	" "
22	-	-	-	-	" "
23	-	-	-	-	" "
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Robert J. Stewart
 Observer's Signature: Robert J. Stewart Date: 4/22/13
 Organization: FOEP
 Certified By: E.T.A. Date: 2/13/13

CONDITIONS - Used U.S. NAVAL OBS ASTRONOMICAL VEO1.1 DATA FOR SUN AZIMUTH & ALTITUDE to determine test was in correct SUN ANGLE POSITION (APRIL 22, 2013) FOR VALID TEST. (ATTACHED)

EPA VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 9 203A 203B Other: _____

Company Name: *Florida Rock Div (Vulcan)*
 Facility Name: *#0510024*
 Street Address: _____
 City: _____ State: _____ Zip: _____

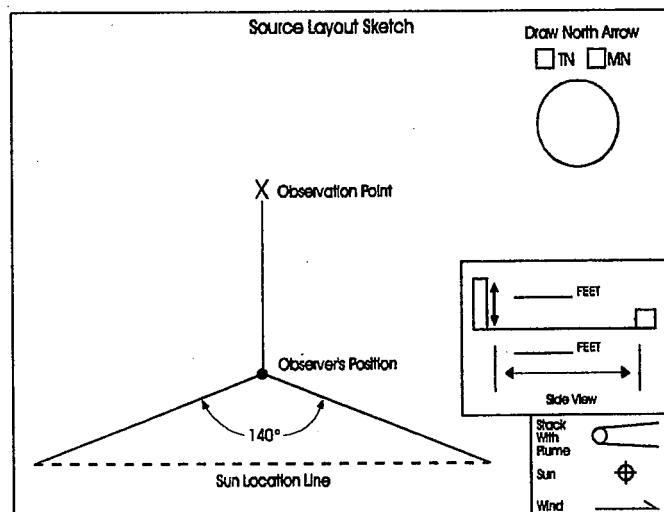
Process: _____ Unit #: _____ Operating Mode: _____
 Control Equipment: _____ Operating Mode: _____

Describe Emission Point
NW baghouse
 Height of Emiss. Pt.: _____ Height of Emiss. Pt. Rel. to Observer: _____
 Start _____ End _____ Start _____ End _____
 Distance to Emiss. Pt.: _____ Direction to Emiss. Pt. (Degrees): _____
 Start _____ End _____ Start _____ End _____

Vertical Angle to Obs. Pt.: _____ Direction to Obs. Pt. (Degrees): _____
 Start _____ End _____ Start _____ End _____
 Distance and Direction to Observation Point from Emission Point
 Start _____ End _____

Describe Emissions
 Start _____ End _____
 Emission Color: _____ Water Droplet Plume: _____
 Start _____ End _____ Attached Detached None

Describe Plume Background
 Start _____ End _____
 Background Color: _____ Sky Conditions: _____
 Start _____ End _____ Start _____ End _____
 Wind Speed: _____ Wind Direction: _____
 Start _____ End _____ Start _____ End _____
 Ambient Temp.: _____ Wet Bulb Temp.: _____ RH Percent: _____
 Start _____ End _____



Longitude: _____ Latitude: _____ Declination: _____

Additional Information

Form Number: _____ Page: *2* Of: *2*
 Continued on VEO Form Number: _____

Observation Date: *4/22/13* Time Zone: *EST* Start Time: _____ End Time: *11:50 AM*

Min	Sec				Comments
	0	15	30	45	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	<i>done pumping</i>
27					
28					
29					
30					

Observer's Name (Print): *Robert J. Stewart*

Observer's Signature: *Robert J. Stewart* Date: *4/22/13*

Organization: *FDEP*

Certified By: *E.T.A.* Date: *2/13/13*

EPA VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 9 203A 203B Other: _____

Company Name: **Florida Rock Div. (Vulcan)**
 Facility Name: **# 0510024**
 Street Address: **413 S. INDUSTRIAL LOOP**
 City: **LaBelle** State: **FL** Zip: _____

Process: **loading flyash** Unit #: **4** Operating Mode: **normal**
 Control Equipment: **baghouse** Operating Mode: **11-12 JEPST**

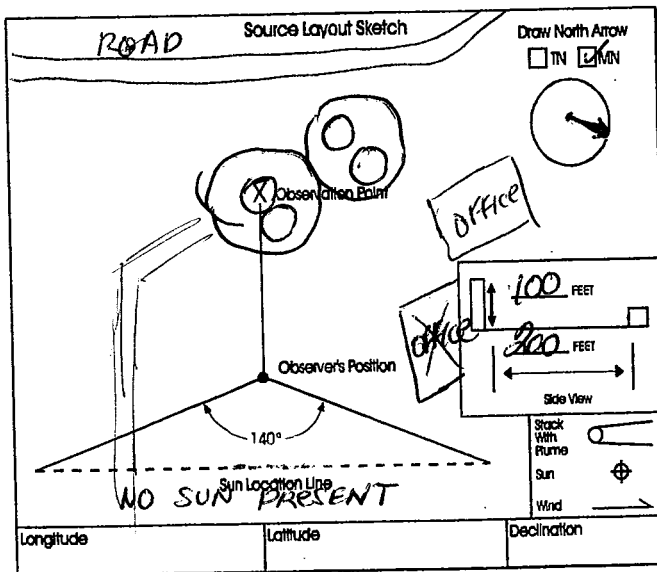
Describe Emission Point
SW - South side baghouse

Height of Emiss. Pt. Height of Emiss. Pt. Rel. to Observer
 Start **100'** End **2100'** Start **2100'** End **2100'**
 Distance to Emiss. Pt. Direction to Emiss. Pt. (Degrees)
 Start **200'** End **200'** Start **255** End **255**

Vertical Angle to Obs. Pt. Direction to Obs. Pt. (Degrees)
 Start **190** End **190** Start **255** End **255**
 Distance and Direction to Observation Point from Emission Point
 Start **N/A** End **N/A**

Describe Emissions
 Start **dust NONE** End **dust**
 Emission Color: **N/A** Water Droplet Plume
 Start **white** End **white** Attached Detached None

Describe Plume Background
 Start **SKY** End **SKY**
 Background Color: **light grey** End **SAME** Sky Conditions: **OVERCAST** End **SAME**
 Wind Speed: **5-10MPH** End **5-10MPH** Wind Direction: **E-NE** End **E-NE**
 Ambient Temp: **76°F** End **77°F** Wet Bulb Temp.: **89%** RH Percent: **89%**



Additional Information
Test stopped because of leaking pop-off pipe (small hole discovered in pipe)

SUN NOT PRESENT DUE TO OVERCAST CONDITIONS. NAVAL OBS. ASTRONOMICAL DATA FOR SUN VE0F1.1 AZIMUTH & ALTITUDE ON APR. 22, 2013 WAS USED TO DETERMINE TEST POSITION WAS CORRECT FOR SUN ANGLE TO HAVE TEST BE VALID (SEE ATTACHED DATA SHEET)

Form Number _____ Page **1** Of **1**
 Continued on VEO Form Number _____

Observation Date	Time Zone	Start Time	End Time	Comments	
4/22/13	EST	11:19AM	11:25		
Sec	0	15	30	45	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	10	10	valve pop off leaking
4	15	10	10	15	stop test //
5	10	10	-	-	Stopped pumping 11:24 AM
6					Inspection by plant personnel determined small hole rusted in pop-off pipe.
7					
8					
9					Six Minute Avg
10					Opacity $90 \div 24 = 3.75\%$
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Observer's Name (Print): **Robert J. Stewart**
 Observer's Signature: **Robert J. Stewart** Date: **4/22/13**
 Organization: **FDEP**
 Certified By: **E.T.A.** Date: **2/13/13**

EPA VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 9 203A 203B Other: _____

Company Name _____
 Facility Name _____
 Street Address _____
 City _____ State _____ Zip _____

Process _____ Unit # _____ Operating Mode _____
 Control Equipment _____ Operating Mode _____

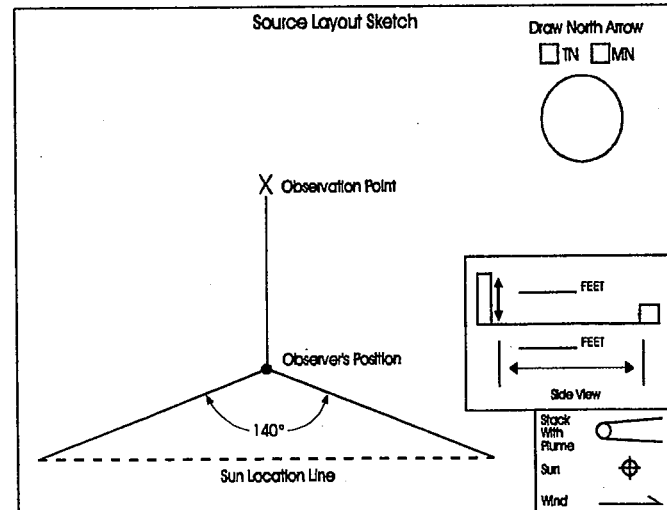
Describe Emission Point

Height of Emiss. Pt. _____ Height of Emiss. Pt. Rel. to Observer _____
 Start _____ End _____ Start _____ End _____
 Distance to Emiss. Pt. _____ Direction to Emiss. Pt. (Degree) _____
 Start _____ End _____ Start _____ End _____

Vertical Angle to Obs. Pt. _____ Direction to Obs. Pt. (Degree) _____
 Start _____ End _____ Start _____ End _____
 Distance and Direction to Observation Point from Emission Point
 Start _____ End _____

Describe Emissions
 Start _____ End _____
 Emission Color _____ Water Droplet Plume _____
 Start _____ End _____ Attached Detached None

Describe Plume Background
 Start _____ End _____
 Background Color _____ Sky Conditions _____
 Start _____ End _____ Start _____ End _____
 Wind Speed _____ Wind Direction _____
 Start _____ End _____ Start _____ End _____
 Ambient Temp. _____ Wet Bulb Temp. _____ RH Percent _____
 Start _____ End _____ Start _____ End _____



Longitude _____ Latitude _____ Declination _____

Additional Information

Form Number _____ Page _____ Of _____
 Continued on VEO Form Number _____

Sec Min	Time Zone				Start Time	End Time	Comments
	0	15	30	45			
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Observer's Name (Print) _____
 Observer's Signature _____ Date _____
 Organization _____
 Certified By _____ Date _____

Altitude/Azimuth Table for One Day

Astronomical Applications Dept.
 U.S. Naval Observatory
 Washington, DC 20392-5420

LA BELLE, FLORIDA

° ' ° '
 W 81 26, N26 45

Altitude and Azimuth of the Sun
 Apr 22, 2013
 Eastern Daylight Time

	Altitude	Azimuth
		(E of N)
h m	°	°
06:10	-10.5	70.4
06:20	-8.4	71.6
06:30	-6.2	72.8
06:40	-4.1	74.0
06:50	-1.9	75.2
07:00	0.7	76.3
07:10	2.7	77.4
07:20	4.8	78.5
07:30	6.9	79.6
07:40	9.1	80.6
07:50	11.3	81.7
08:00	13.5	82.8
08:10	15.7	83.8
08:20	17.9	84.9
08:30	20.1	85.9
08:40	22.3	87.0
08:50	24.6	88.1
09:00	26.8	89.2
09:10	29.0	90.3
09:20	31.3	91.4
09:30	33.5	92.6
09:40	35.7	93.8
09:50	37.9	95.1
10:00	40.2	96.4
10:10	42.4	97.8
10:20	44.6	99.2
10:30	46.8	100.7
10:40	49.0	102.3
10:50	51.2	104.0
11:00	53.3	105.9
11:10	55.4	107.9
11:20	57.6	110.2
11:30	59.6	112.6
11:40	61.7	115.4
11:50	63.7	118.4
12:00	65.6	121.9
12:10	67.5	125.9
12:20	69.2	130.5
12:30	70.8	135.8
12:40	72.3	142.0
12:50	73.6	149.1
13:00	74.6	157.2
13:10	75.3	166.2
13:20	75.6	175.9
13:30	75.6	185.7
13:40	75.2	195.3
13:50	74.5	204.2

Altitude/Azimuth Table for One Day

14:00	73.4	212.1
14:10	72.1	219.1
14:20	70.6	225.2
14:30	68.9	230.4
14:40	67.2	234.9
14:50	65.3	238.8
15:00	63.4	242.2
15:10	61.4	245.2
15:20	59.3	247.9
15:30	57.2	250.3
15:40	55.1	252.5
15:50	53.0	254.5
16:00	50.8	256.3
16:10	48.7	258.1
16:20	46.5	259.7
16:30	44.3	261.2
16:40	42.1	262.6
16:50	39.8	263.9
17:00	37.6	265.2
17:10	35.4	266.5
17:20	33.2	267.7
17:30	30.9	268.9
17:40	28.7	270.0
17:50	26.5	271.1
18:00	24.3	272.2
18:10	22.0	273.3
18:20	19.8	274.4
18:30	17.6	275.4
18:40	15.4	276.5
18:50	13.2	277.6
19:00	11.0	278.6
19:10	8.8	279.7
19:20	6.6	280.8
19:30	4.5	281.8
19:40	2.4	282.9
19:50	0.5	284.1
20:00	-2.2	285.2
20:10	-4.4	286.4
20:20	-6.5	287.5
20:30	-8.6	288.8
20:40	-10.7	290.0

[Back to form](#)

