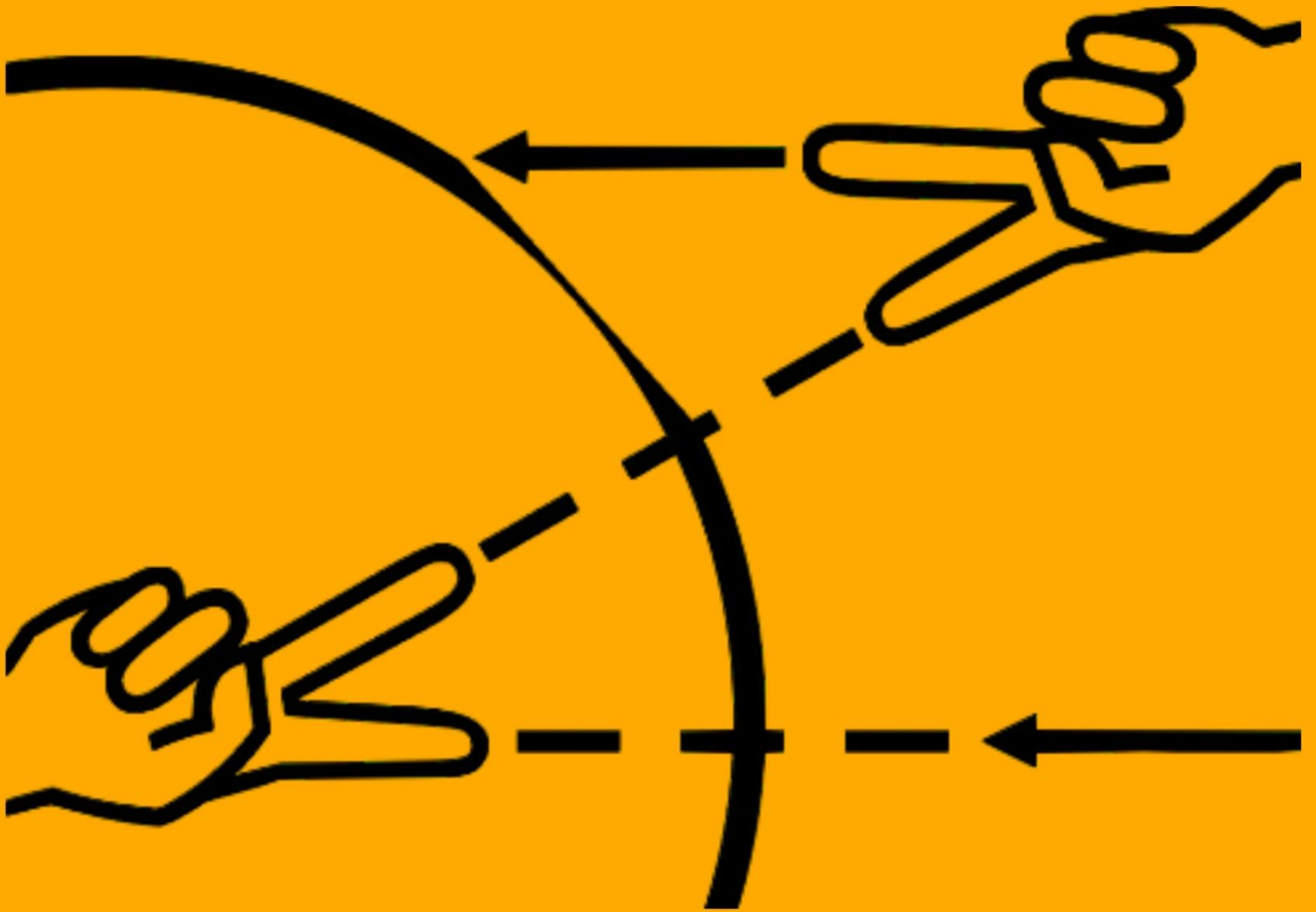


Eratosthenes



march 2017

4 Continents

15 Countries

43 Schools

165 Measures

ARGENTINA (2)

Anisacate, Chivilcoy

BRAZIL (3)

Piranguinho, Rio de Janeiro (2)

CROATIA (4)

Brštanovo, Donji Muć, Đurđevac, Zagreb

COLOMBIA (1)

Guarne

FRANCE (1)

Lafrançaise

FYROM (1)

Skopje

GREECE (12)

Aigio, Ano Komi, Aspropyrgos, Athens, Ilion, Ioannina, Komotini (2) , Petroupoli, Piraeus, Rhodes, Technopolis

HUNGARY (1)

Budapest

INDIA (6)

Dholpur, Marena, Moradabad, Mumbai, Narahara, Yamunanagar

ITALY (2)

Marina di Carrara, Merlara

MALAYSIA (1)

Kuantan

ROMANIA (5)

Bistrita, Busteni, Mărgineni, Oradea, Râmnicu Vâlcea

SPAIN (2)

Úbeda, Vigo

TUNISIA (1)

Sfax

VIETNAM (1)

Hồ Chí Minh City


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Aigio	Greece	1st High School of Aigio	38.252	22.079
	Anisacate	Argentina	Fundación Caminos de Anisacate	-31.717	-64.400
	Ano Komi	Greece	Ano Komi Kozanis	40.226	21.831
	Aspropyrgos	Greece	3rd High School of Aspropyrgos	38.061	23.601
	Athens	Greece	Experimental College Agion Anargyron	38.027	23.726
	Athens	Greece	Technopolis	37.978	23.714
	Bistrita	Romania	Liceul Crestin Logos	47.148	24.484
	Brštanovo	Croatia	Osnovna škola kneza Branimira	43.658	16.415
	Budapest	Hungary	Bárczi Géza Primary School	47.043	19.047
	Busteni	Romania	Colegiul Ion Kalinderu	45.416	25.535
	Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014
	Dholpur	India	GSSS Tagawali	26.708	77.908
	Donji Muć	Croatia	oš kneza Branimira	43.694	16.462
	Đurđevac	Croatia	High school Gimnazija Dr. Ivana Kranjčeva	46.039	25.535
	Guarne	Colombia	Grupo Astrofanáticos	6.274	-75.449
	Hồ Chí Minh City	Vietnam	Phú Nhuận High School	10.809	106.676
	Ilion	Greece	11th JuniorHigh School of Ilion	38.033	23.697
	Ioannina	Greece	Experimental College	39.666	20.845
	Komotini	Greece	2nd Minority Primary School	41.124	25.413
	Komotini	Greece	3rd Junior High School Komotini	41.121	25.394
	Kuantan	Malaysia	SMK St Thomas	3.817	103.333

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237
	Marena	India	Kasturba Gandhi Balika Vidyalaya	26.800	78.030
	Mărgineni	Romania	Gh. Popescu School	44.533	24.554
	Marina di Carrara	Italy	M Buonarroti primary school	44.045	10.031
	Merlara	Italy	Lower Secondary School "Dante Alighieri"	45.166	11.433
	Moradabad	India	Parker Inter College Moradabad	28.831	78.778
	Mumbai	India	Marwari Vidyalaya High School	18.957	72.818
	Narhara Dhikoli	India	Junior High School	28.903	77.725
	Oradea	Romania	Colegiul Technic "Traian Vuia"	47.064	21.917
	Petroupoli	Greece	4o Junior High School	38.036	23.674
	Piraeus	Greece	2nd Junior High School of Korydallos	37.977	23.655
	Piranguinho	Brazil	Universidade Federal de Itajubá	-22.411	-45.535
	Rhodes	Greece	2o Experimental Primary School of Rhodes	36.450	28.371
	Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317
	Rio de Janeiro	Brazil	Escola Municipal Bento Ribeiro, Méier	-22.904	-43.280
	Râmnicu Vâlcea	Romania	S.G. Nr4 Gradinita Dumbrava Minuata	45.093	24.358
	Sfax	Tunisia	école de Sakiét Eddayer	34.789	10.780
	Skopje	FYROM	OOU "Nevena Georgieva - Dunja"	41.980	21.445
	Úbeda	Spain	Colegio Salesiano Santo Domingo Savio	38.017	-3.367
	Vigo	Spain	IES de Beade	42.201	-8.716
	Yamunanagar	India	C V Raman Science Club	30.117	77.250
	Zagreb	Croatia	Elementary School Petar Zrinski	45.812	15.959

Aigio, Greece

March 2017

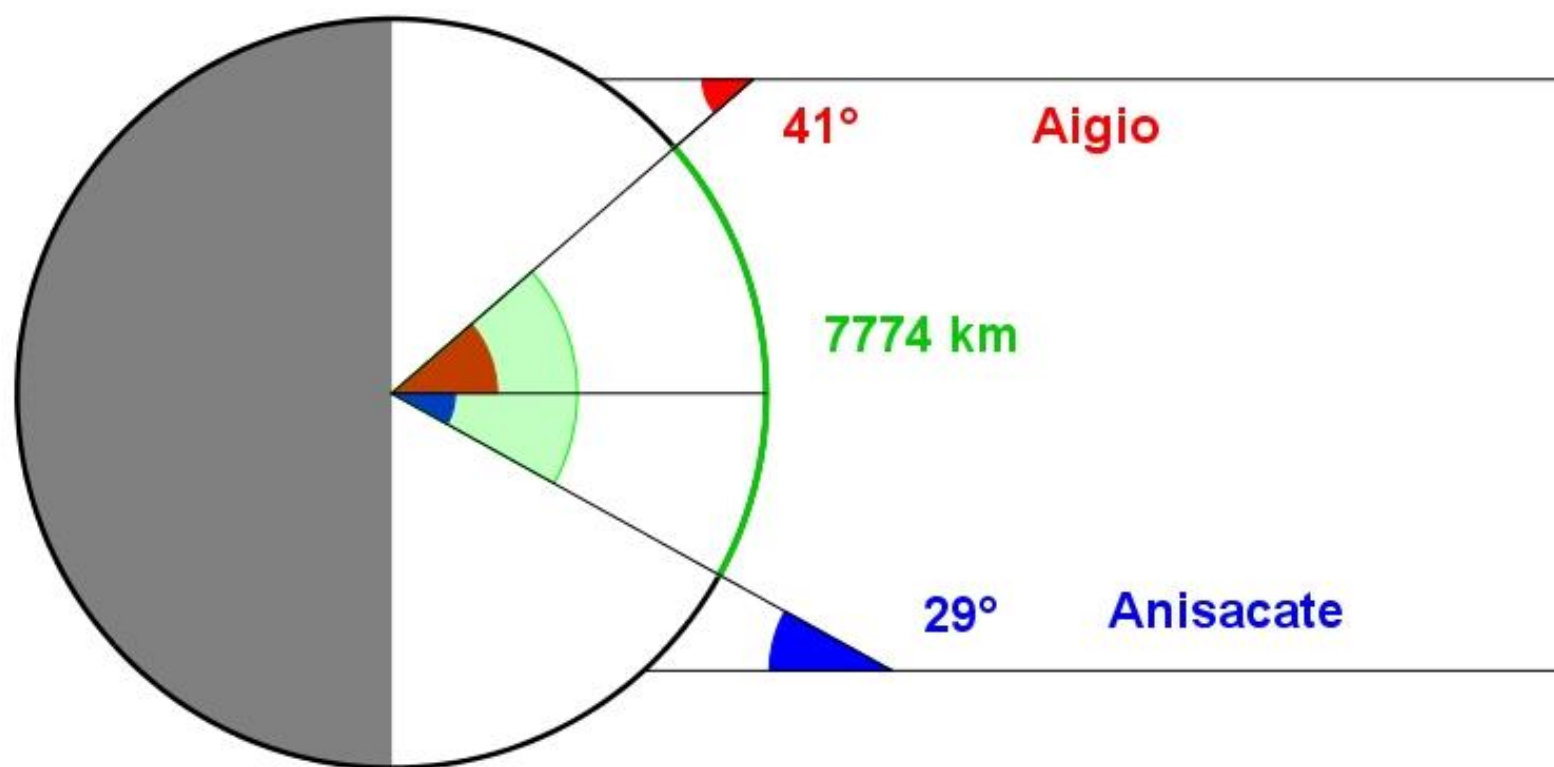


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Aigio	Greece	1st High School of Aigio	38.252	22.079

Date	Gnomon	Shadow	Angle
03 March	50 cm	49.8 cm	44.9 °
13 March	50 cm	43.5 cm	41.0 °
17 March	50 cm	41.7 cm	39.8 °
20 March	49.5 cm	39.0 cm	38.2 °

13 March 2017 (Aigio-GREECE) Latitude: 38.252 °

13 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 7774 \text{ km}}{41^\circ + 29^\circ} = 39981 \text{ km}$$



Anisacate, Argentina

March 2017

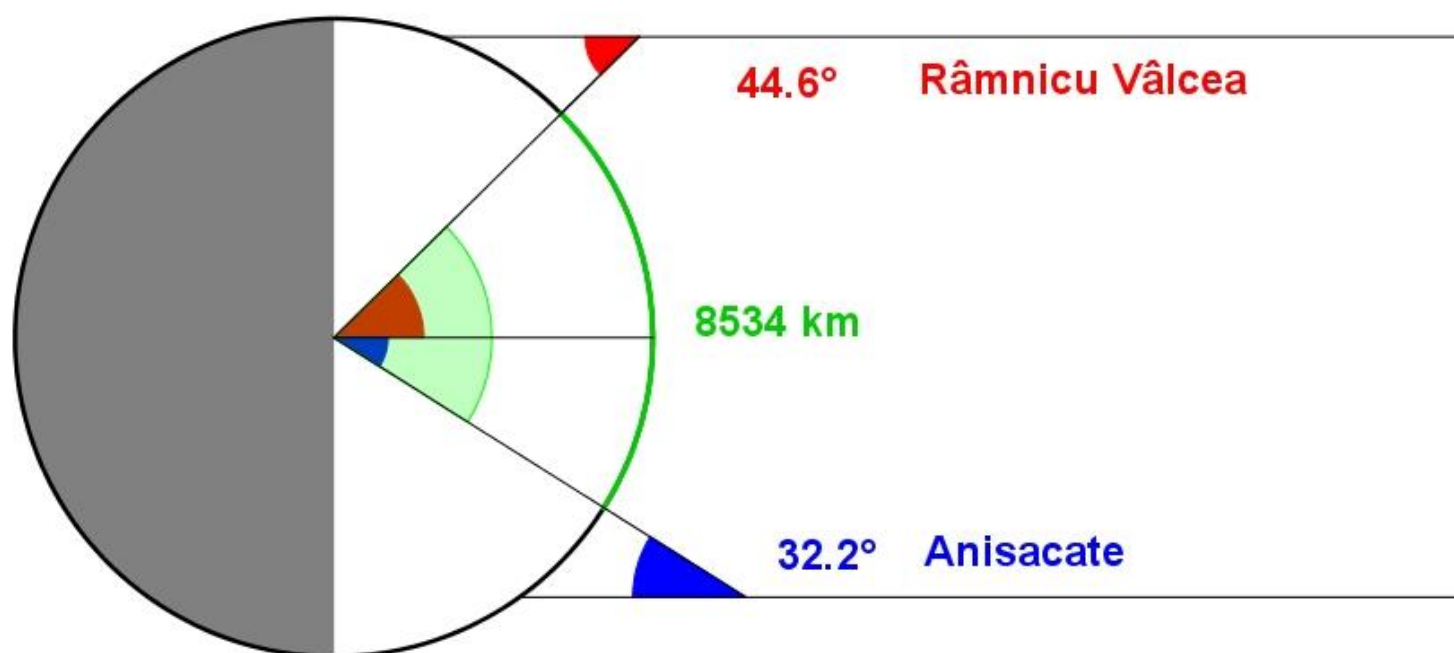


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Anisacate	Argentina	Fundación Caminos de Anisacate	-31.717	-64.400

Date	Gnomon	Shadow	Angle
01 March	100 cm	-45.8 cm	-24.6 °
02 March	100 cm	-46.5 cm	-24.9 °
07 March	100 cm	-50.7 cm	-26.9 °
09 March	100 cm	-52.5 cm	-27.7 °
10 March	100 cm	-53.3 cm	-28.1 °
13 March	100 cm	-55.5 cm	-29.0 °
14 March	100 cm	-56.4 cm	-29.4 °
15 March	100 cm	-57.5 cm	-29.9 °
16 March	100 cm	-58.0 cm	-30.1 °
17 March	100 cm	-59.0 cm	-30.5 °
21 March	100 cm	-63.0 cm	-32.2 °
22 March	100 cm	-63.8 cm	-32.5 °
23 March	100 cm	-64,6 cm	-32.9 °
25 March	100 cm	-67.0 cm	-33.8 °
26 March	100 cm	-67.5 cm	-34.0 °
27 March	100 cm	-68.5 cm	-34.4 °
30 March	100 cm	-71.8 cm	-35.7 °

21 March 2017 (Râmnicu Vâlcea-ROMANIA) Latitude: 45.093 °

21 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 8534 \text{ km}}{44.6^\circ + 32.2^\circ} = 40003 \text{ km}$$



Ano Komi, Greece

March 2017

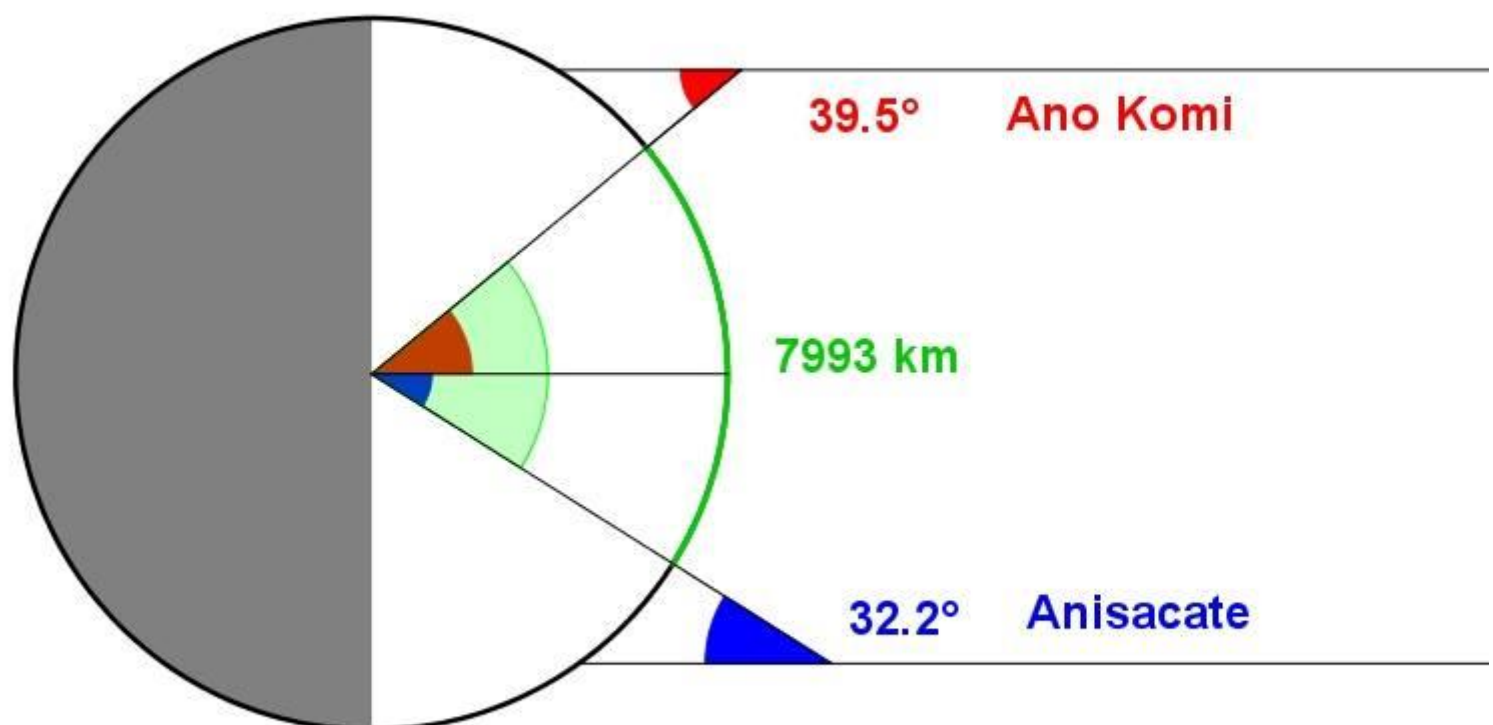


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Ano Komi	Greece	Ano Komi Kozanis	40.226	21.831

Date	Gnomon	Shadow	Angle
21 March	100 cm	82.5 cm	39.5 °

21 March 2017 (Ano Komi-GREECE) Latitude: 40.226 °

21 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 7993 \text{ km}}{39.5^\circ + 32.2^\circ} = 40132 \text{ km}$$



Aspropyrgos, Greece

March 2017

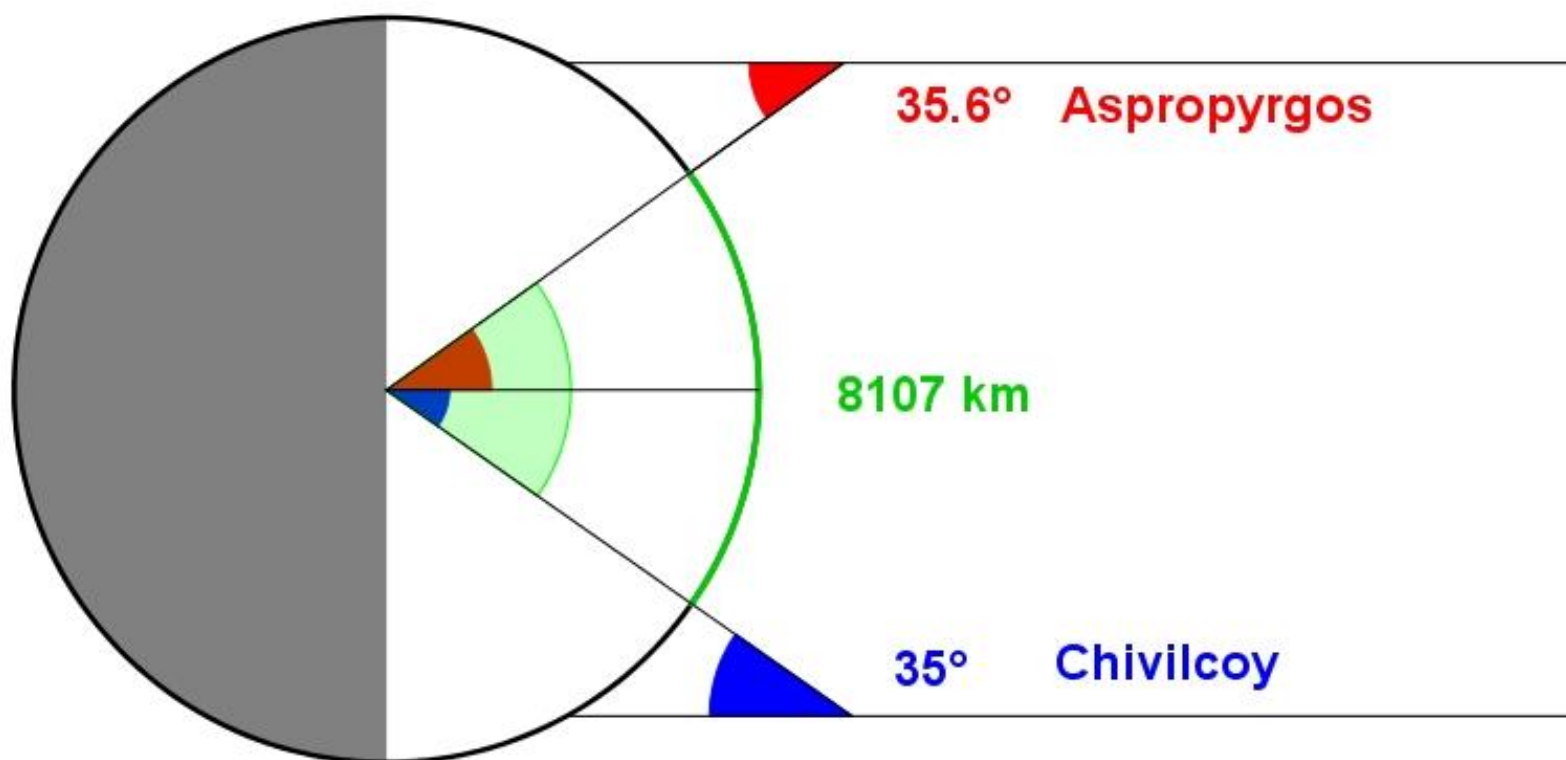


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Aspropyrgos	Greece	3rd High School of Aspropyrgos	38.061	23.601

Date	Gnomon	Shadow	Angle
20 March	97.8 cm	70 cm	35.6 °

20 March 2017 (Aspropyrgos-GREECE) Latitude: 38.061 °

20 March 2017 (Chivilcoy-ARGENTINA) Latitude: -34.911 °



$$\text{circumference} = \frac{360^\circ \times 8107 \text{ km}}{35.6^\circ + 35^\circ} = 41339 \text{ km}$$



Athens-A, Greece

March 2017



Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Athens	Greece	Experimental College Agion Anargyron	38.027	23.726

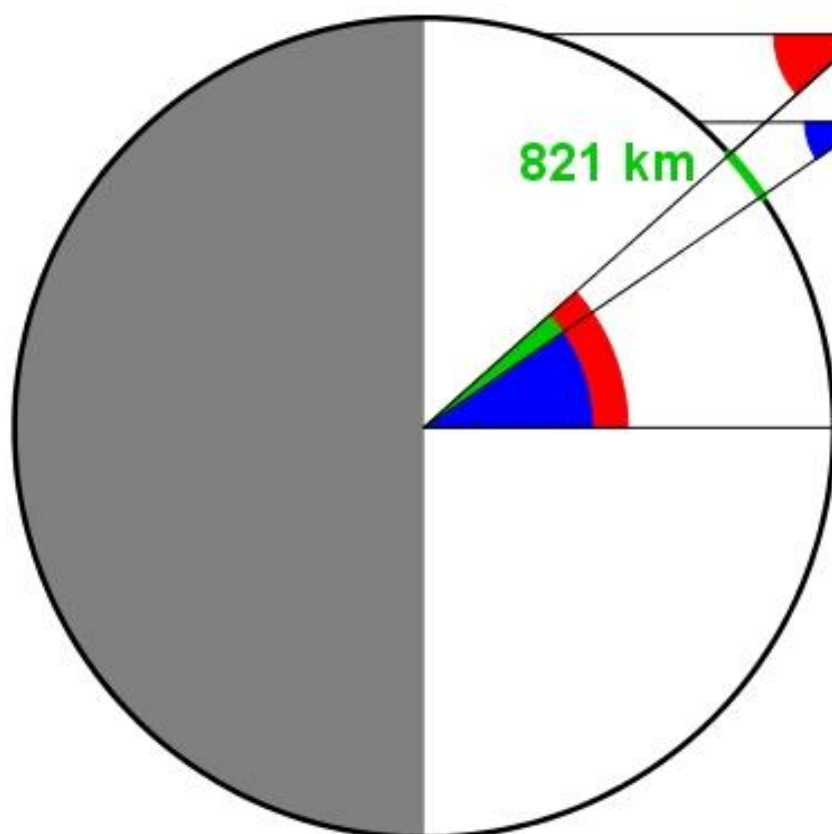
Date	Gnomon	Shadow	Angle
17 March	247 cm	197 cm	38.6 °
20 March	49.0 cm	38.0 cm	37.8 °
29 March	49 cm	33.5 cm	34.4 °

29 March 2017 (Busteni-ROMANIA) Latitude: 45.416

29 March 2017 (Athens-GREECE) Latitude: 38.027

41.8° Busteni

34.4° Athens




$$\text{circumference} = \frac{360^\circ \times 821 \text{ km}}{41.8^\circ - 34.4^\circ} = 39941 \text{ km}$$



Athens Technopolis GREECE

March 2017

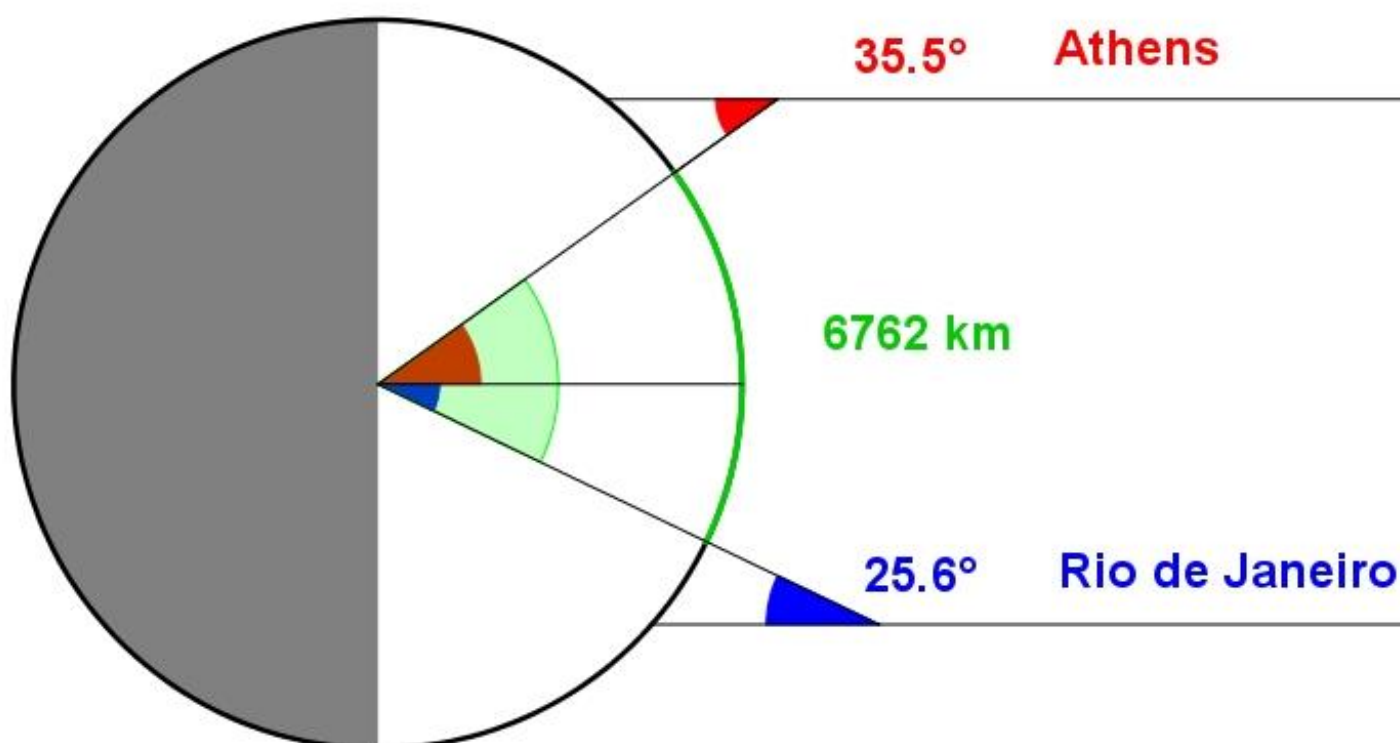


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Athens	Greece	Technopolis	37.978	23.714

Date	Gnomon	Shadow	Angle
30 March	2.8 cm	2.0 cm	35.5 °

30 March 2017 (Athens-GREECE) Latitude: 37.978 °

30 March 2017 (Rio de Janeiro-BRAZIL) Latitude: -22.89 °




$$\text{circumference} = \frac{360^\circ \times 6762 \text{ km}}{35.5^\circ + 25.6^\circ} = 39842 \text{ km}$$



Bistrita, Romania

March 2017

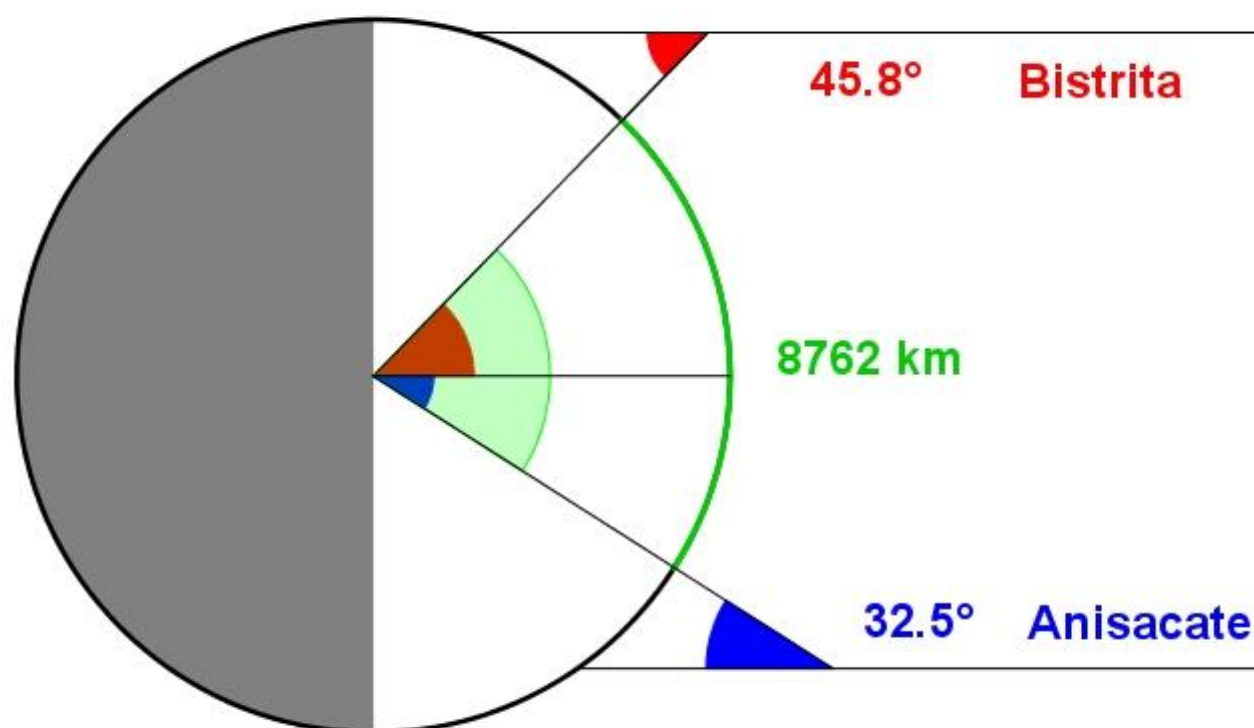


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Bistrita	Romania	Liceul Crestin Logos	47.148	24.484

Date	Gnomon	Shadow	Angle
22 March	100 cm	103 cm	45.8 °

22 March 2017 (Bistrita-ROMANIA) Latitude: 47.148 °

22 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 8762 \text{ km}}{45.8^\circ + 32.5^\circ} = 40285 \text{ km}$$



Brštanovo, Croatia

March 2017

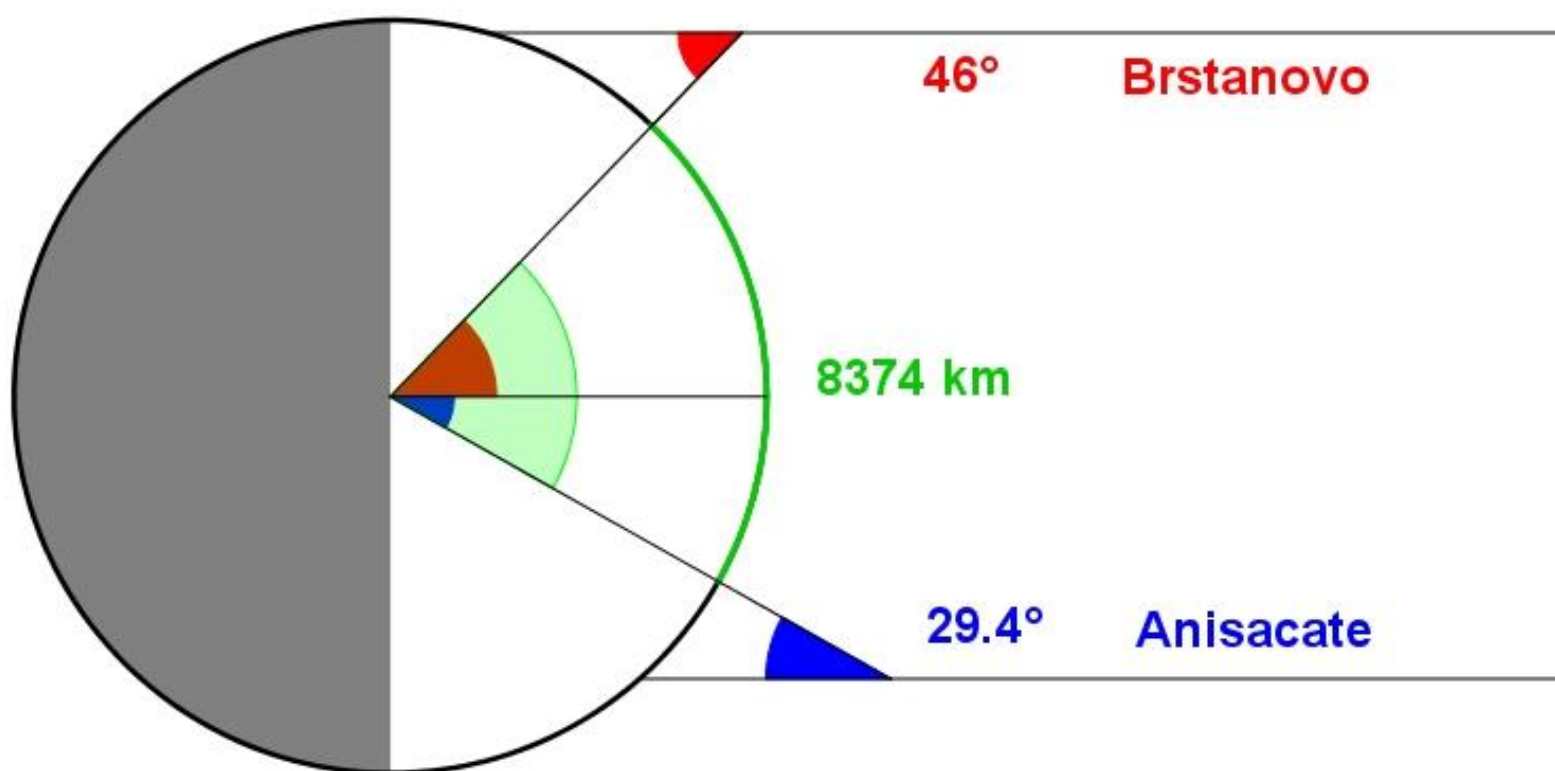


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Brštanovo	Croatia	Osnovna škola kneza Branimira	43.658	16.415

Date	Gnomon	Shadow	Angle
01 March	100 cm	124.5 cm	51.2 °
14 March	100 cm	103.5 cm	46.0 °
15 March	100 cm	102.3 cm	45.7 °
20 March	100 cm	95.5 cm	43.7 °
21 March	100 cm	94.2 cm	43.3 °
22 March	100 cm	92.2 cm	42.7 °
29 March	100 cm	84.3 cm	40.1 °

14 March 2017 (Brstanovo-CROATIA) Latitude: 43.658 °

14 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 8374 \text{ km}}{46^\circ + 29.4^\circ} = 39982 \text{ km}$$



Budapest, Hungary

March 2017

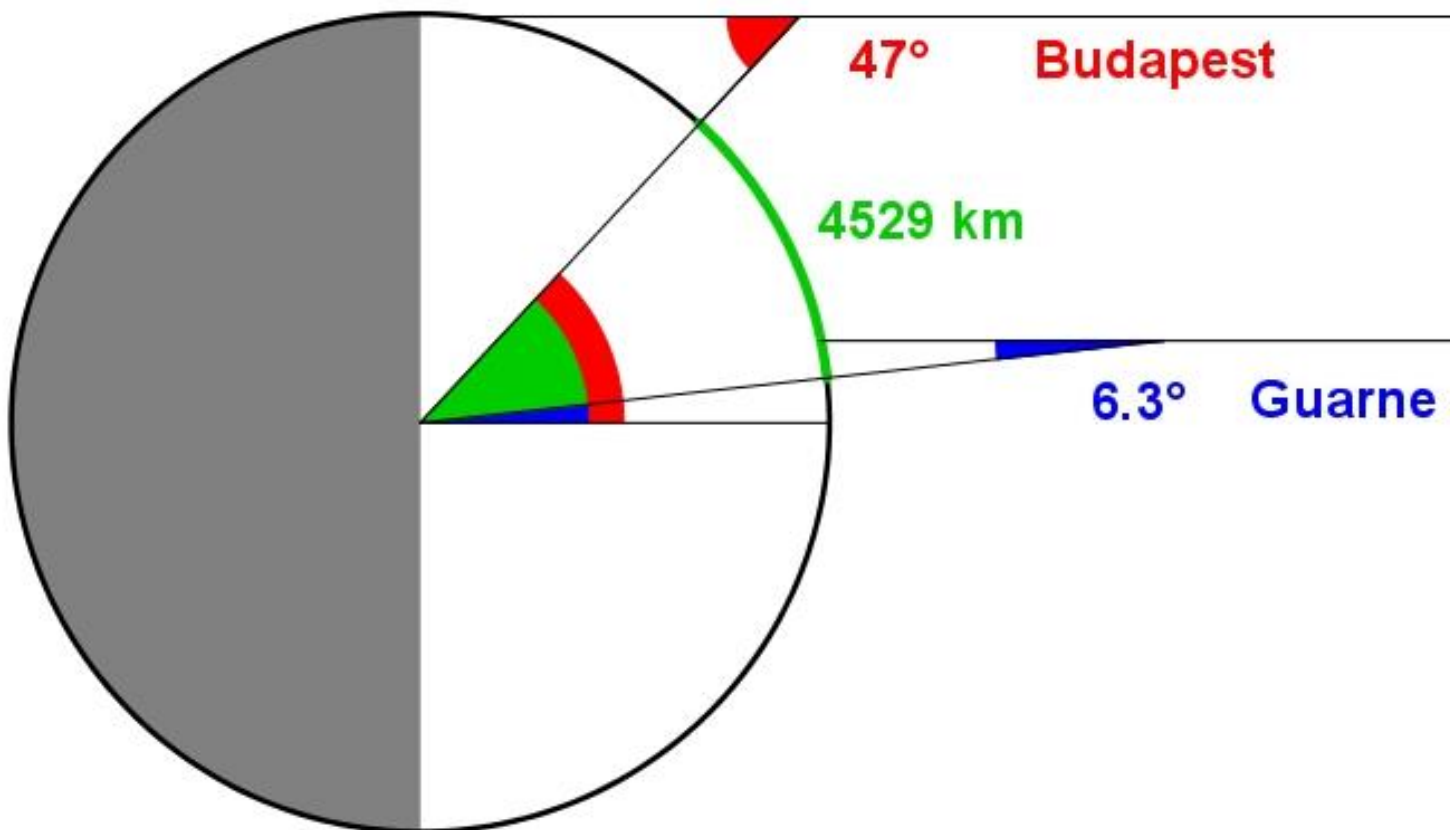


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Budapest	Hungary	Bárczi Géza Primary School	47.043	19.047

Date	Gnomon	Shadow	Angle
21 March	100 cm	107.4 cm	47.0 °

21 March 2017 (Budapest-HUNGARY 47.043)

21 March 2017 (Guarne-COLOMBIA 6.274)




$$\text{circumference} = \frac{360^\circ \times 4529 \text{ km}}{47^\circ - 6.3^\circ} = 40060 \text{ km}$$



Busteni, Romania

March 2017

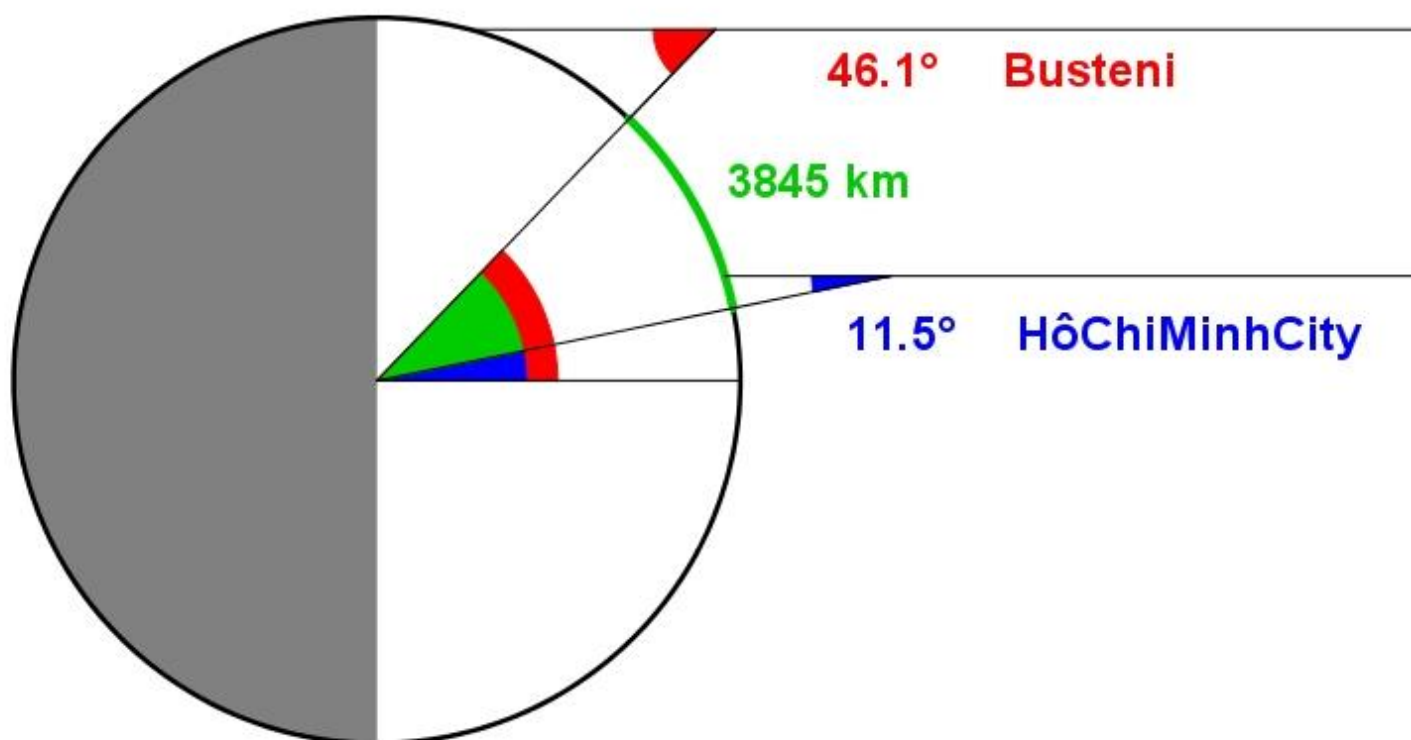


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Busteni	Romania	Colegiul Ion Kalinderu	45.416	25.535

Date	Gnomon	Shadow	Angle
01 March	19 cm	25.1 cm	52.9 °
06 March	64.8 cm	80 cm	51.0 °
09 March	100 cm	118.5 cm	49.8 °
15 March	36.7 cm	40 cm	47.5 °
17 March	33 cm	35 cm	46.7 °
18 March	37.5 cm	39 cm	46.1 °
20 March	69.0 cm	70.0 cm	45.4 °
21 March	100 cm	100 cm	45.0 °
23 March	100 cm	97.2 cm	44.2 °
24 March	100 cm	95.8 cm	43.8 °
27 March	69 cm	63.5 cm	42.6 °
28 March	100 cm	90.6 cm	42.2 °
29 March	55.9 cm	50 cm	41.8 °
30 March	56 cm	49.3 cm	41.4 °
31 March	80.5 cm	70 cm	41 °

18 March 2017 (Busteni-ROMANIA 45.416°)

18 March 2017 (HôChiMinhCity-VIETNAM 10.809°)




$$\text{circumference} = \frac{360^\circ \times 3845 \text{ km}}{46.1^\circ - 11.5^\circ} = 40006 \text{ km}$$



Chivilcoy, Argentina

March 2017

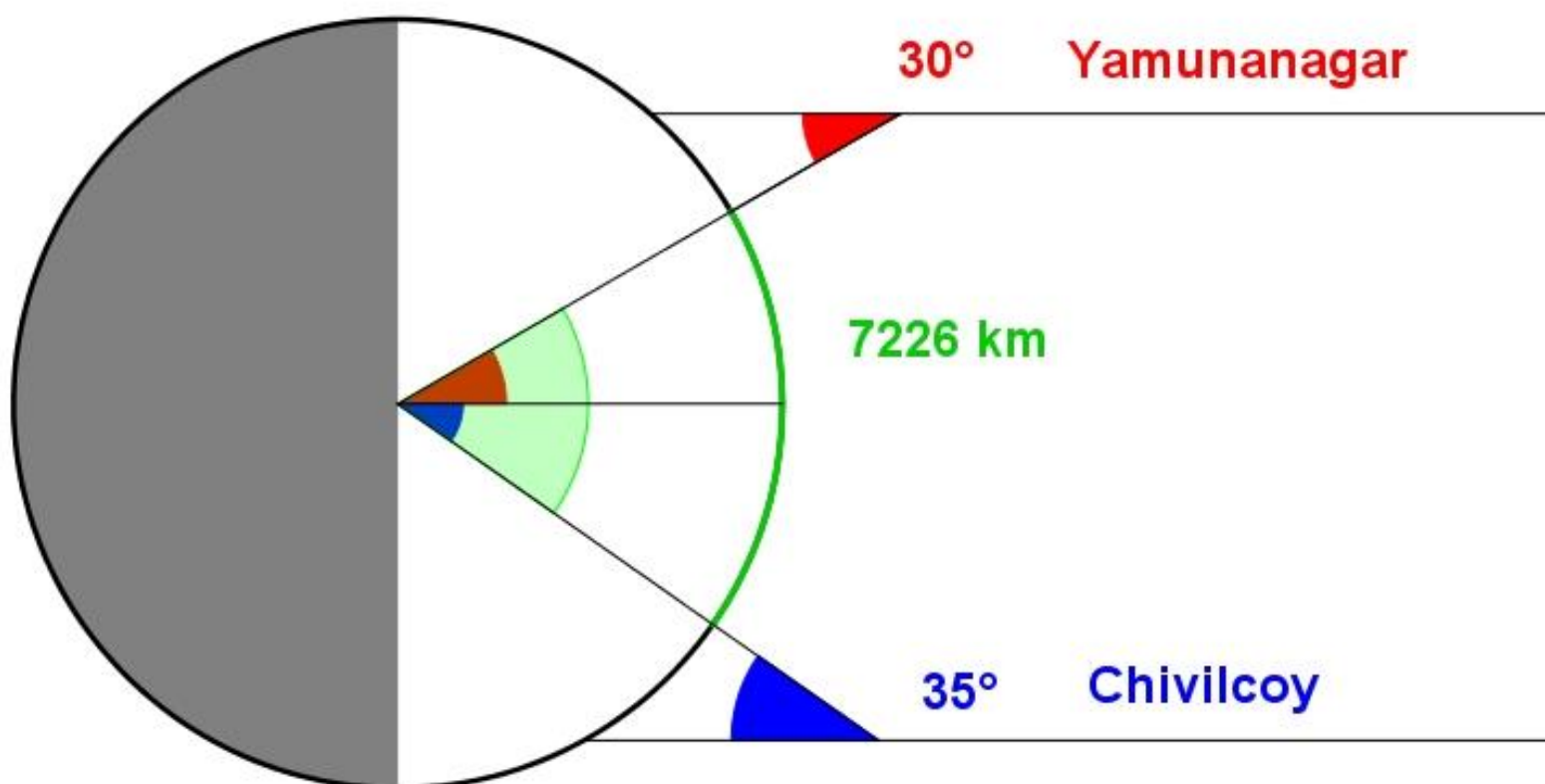


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014

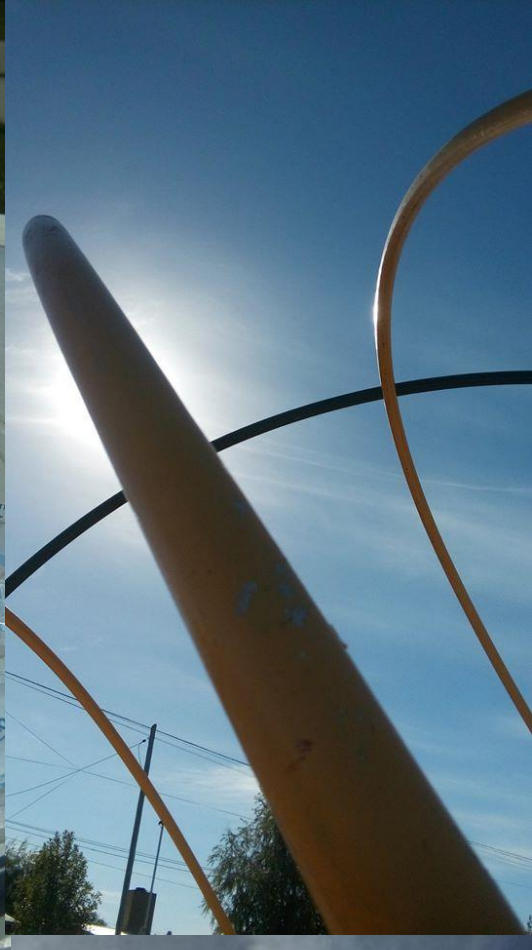
Date	Gnomon	Shadow	Angle
20 March	87.8 cm	-61.5 cm	-35 °

20 March 2017 (Yamunanagar-INDIA) Latitude: 30.133 °

20 March 2017 (Chivilcoy-ARGENTINA) Latitude: -34.911 °




$$\text{circumference} = \frac{360^\circ \times 7226 \text{ km}}{30^\circ + 35^\circ} = 40021 \text{ km}$$



Dholpur, India

March 2017

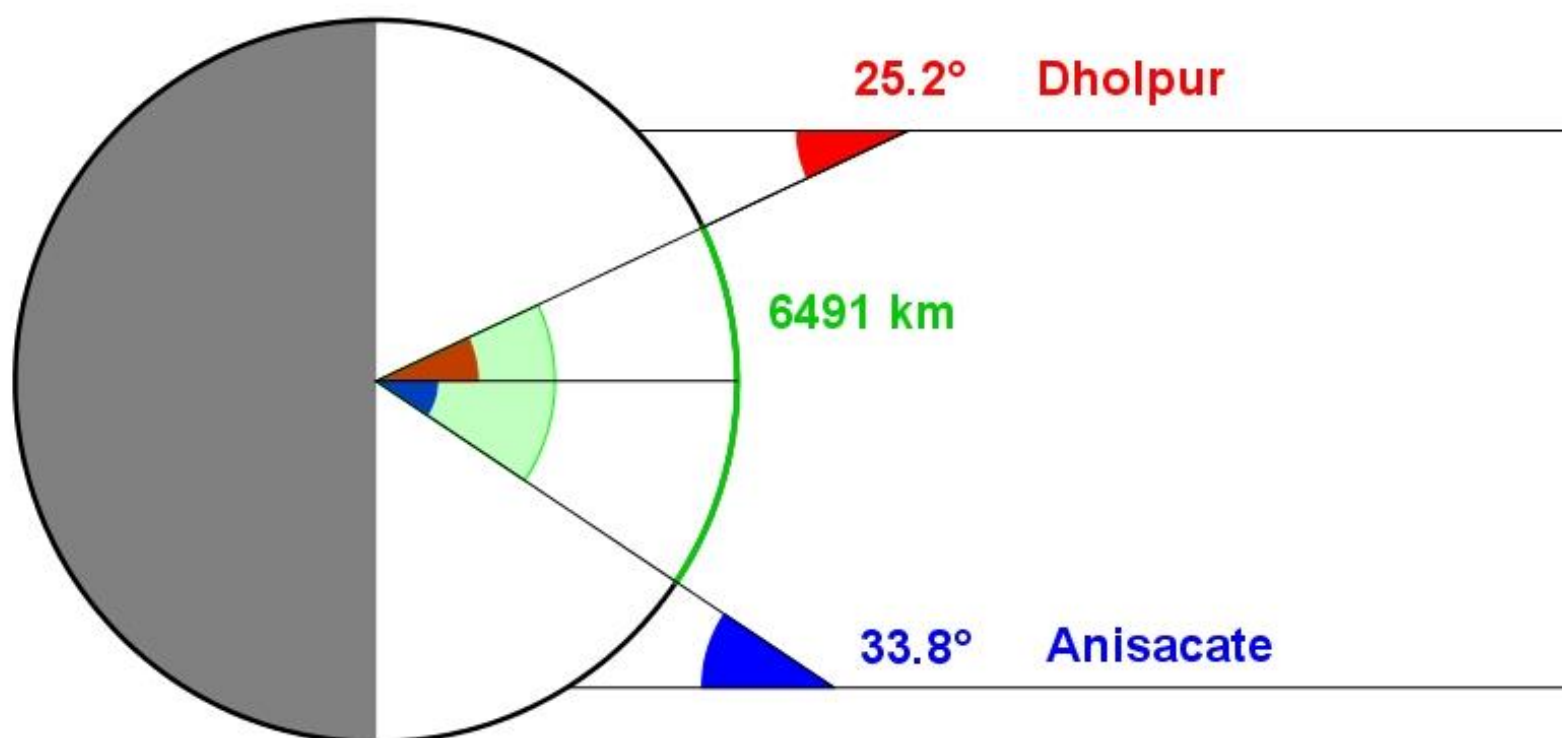


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Dholpur	India	GSSS Tagawali	26.708	77.908

Date	Gnomon	Shadow	Angle
25 March	153 cm	72 cm	25.2°

25 March 2017 (Dholpur-INDIA) Latitude: 26.708 °

25 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 6491 \text{ km}}{25.2^\circ + 33.8^\circ} = 39606 \text{ km}$$


राजकीय उच्च माध्यमिक विद्यालय
तगावली, धौलपुर
आपका हार्दिक स्वागत करता है।



Donji Muć, Croatia

March 2017

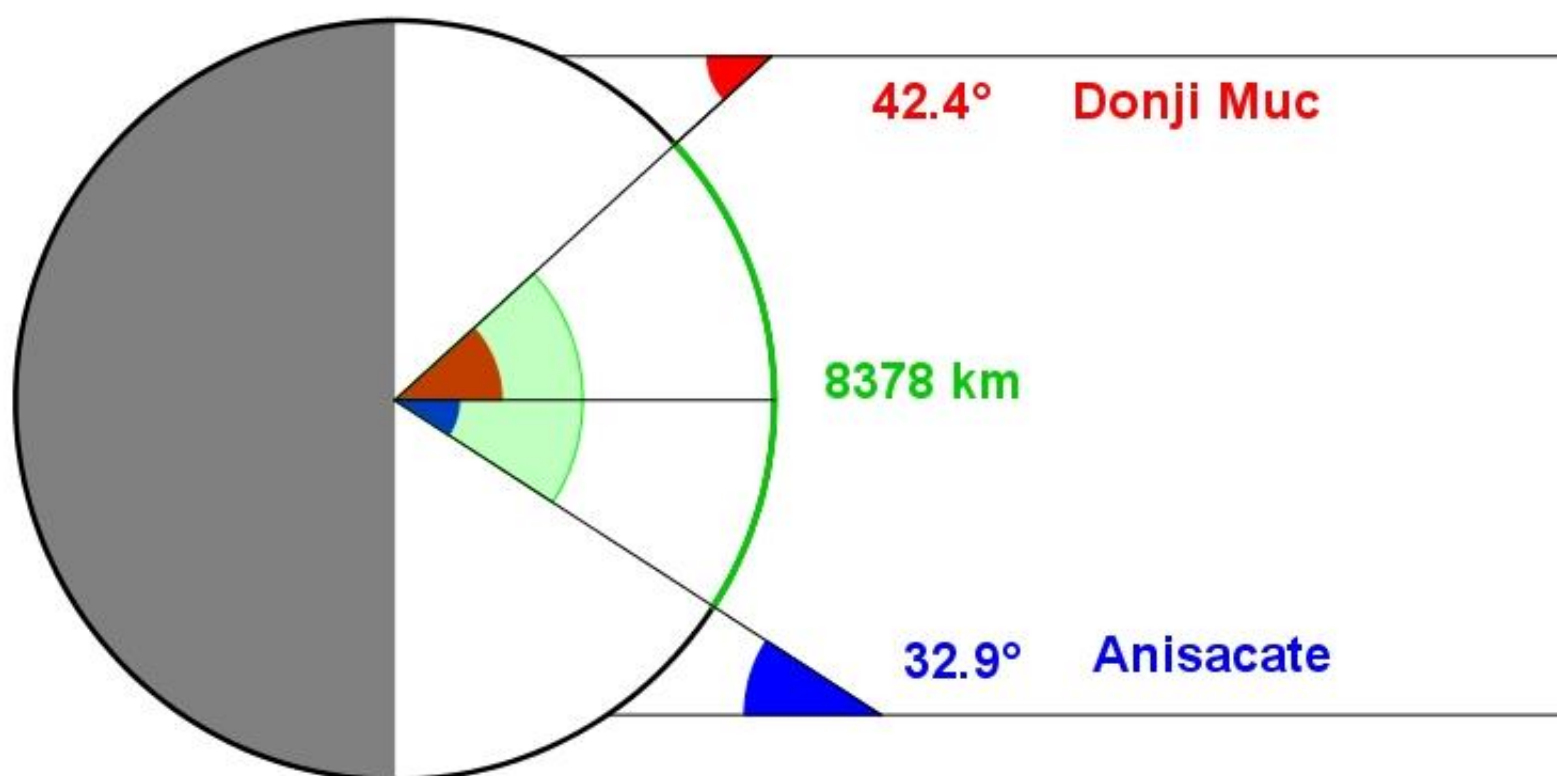


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Donji Muć	Croatia	oš kneza Branimira	43.694	16.462

Date	Gnomon	Shadow	Angle
02 March	100 cm	122.7 cm	50.8 °
09 March	100 cm	111.5 cm	48.1 °
23 March	100 cm	91.4 cm	42.4 °
31 March	100 cm	81.8 cm	39.3 °

23 March 2017 (Donji Muc-CROATIA) Latitude: 43.694 °

23 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 8378 \text{ km}}{42.4^\circ + 32.9^\circ} = 40054 \text{ km}$$



Đurđevac, Croatia

March 2017

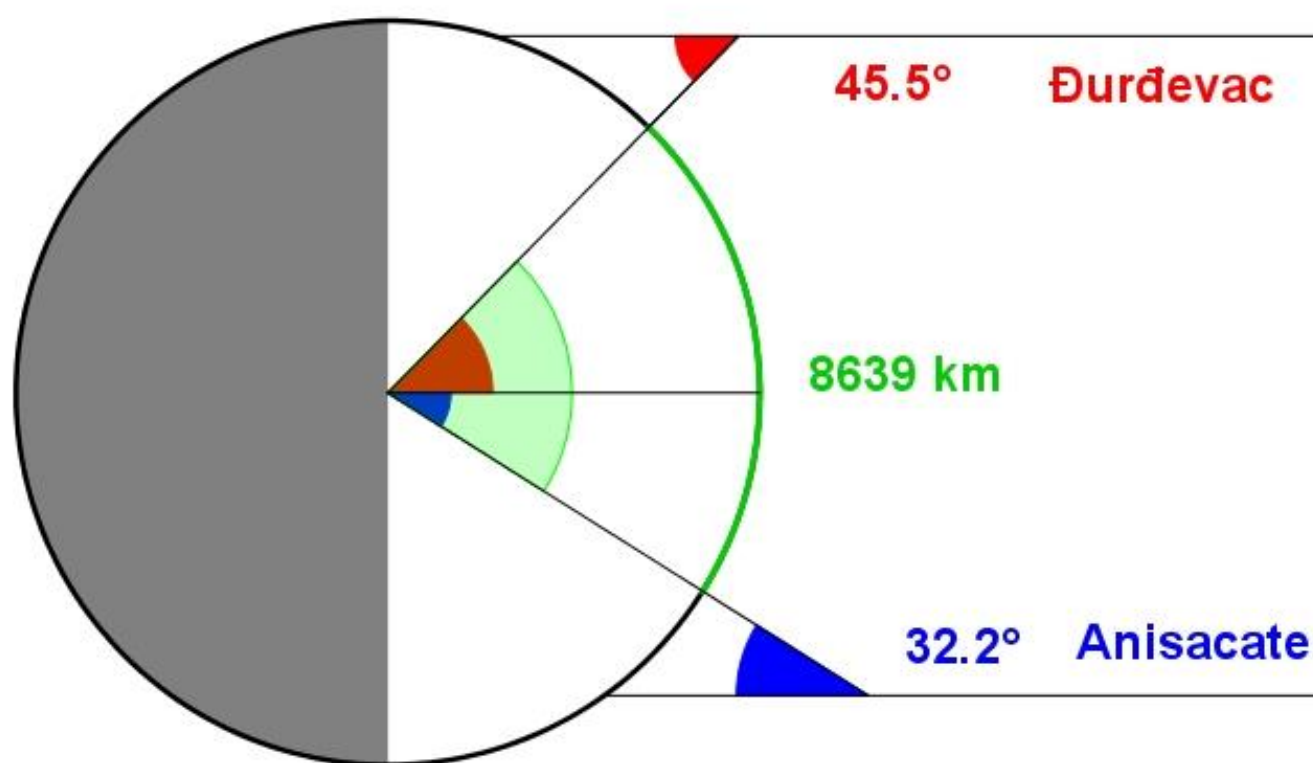


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Đurđevac	Croatia	High school Gimnazija Dr. Ivana Kranjčeva	46.039	25.535

Date	Gnomon	Shadow	Angle
21 March	120 cm	101.8 cm	45.5 °

21 March 2017 (Đurđevac-CROATIA) Latitude: 46.038 °

21 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 8639 \text{ km}}{45.5^\circ + 32.2^\circ} = 40026 \text{ km}$$



Guarne, Colombia

March 2017

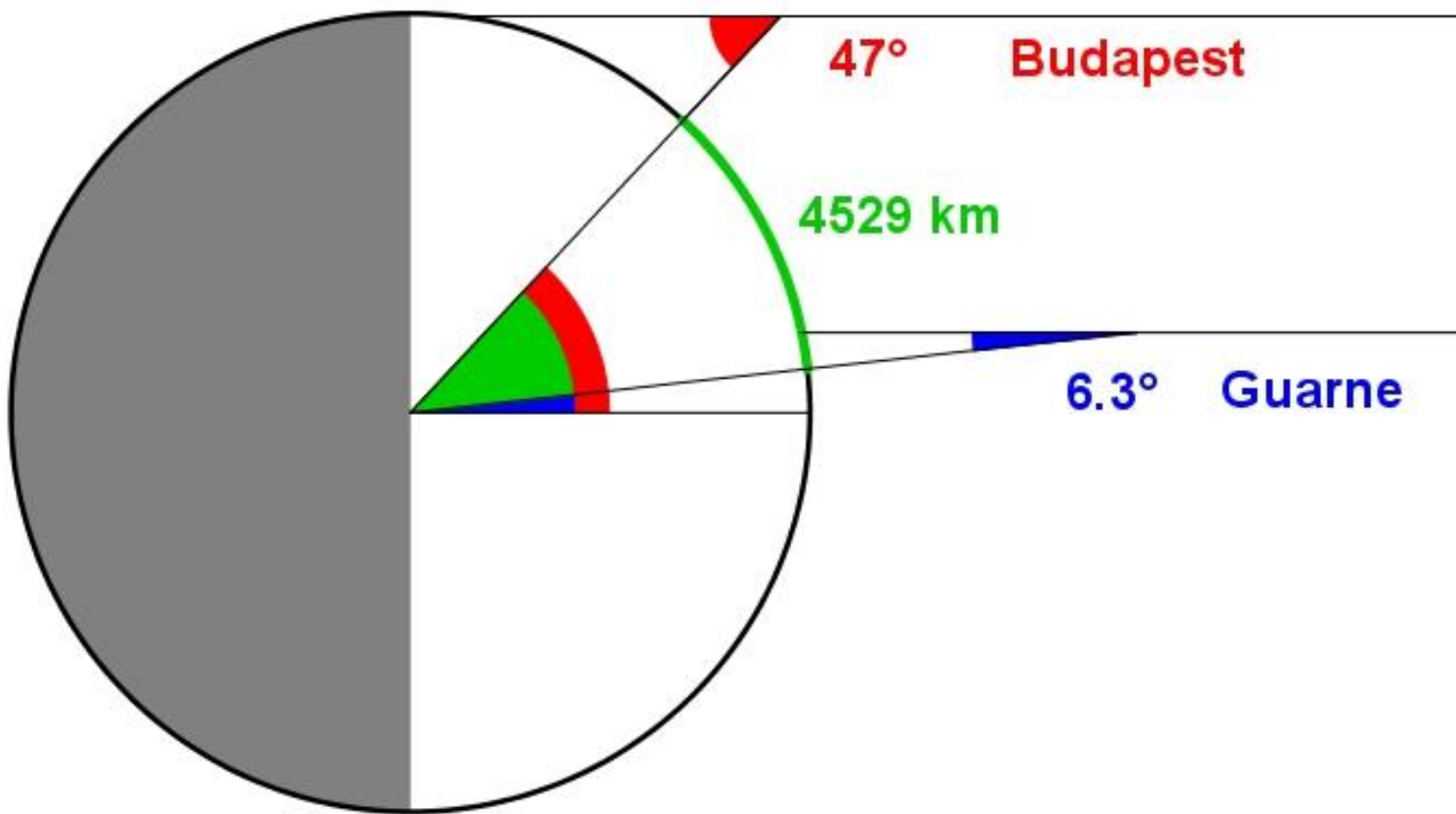


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Guarne	Colombia	Grupo Astrofanáticos	6.274	-75.449

Date	Gnomon	Shadow	Angle
21 March	67.4 cm	7.5 cm	6.3 °

21 March 2017 (Budapest-HUNGARY 47.043)

21 March 2017 (Guarne-COLOMBIA 6.274)



$$\text{circumference} = \frac{360^\circ \times 4529 \text{ km}}{47^\circ - 6.3^\circ} = 40060 \text{ km}$$



Hồ Chí Minh City, Vietnam

March 2017

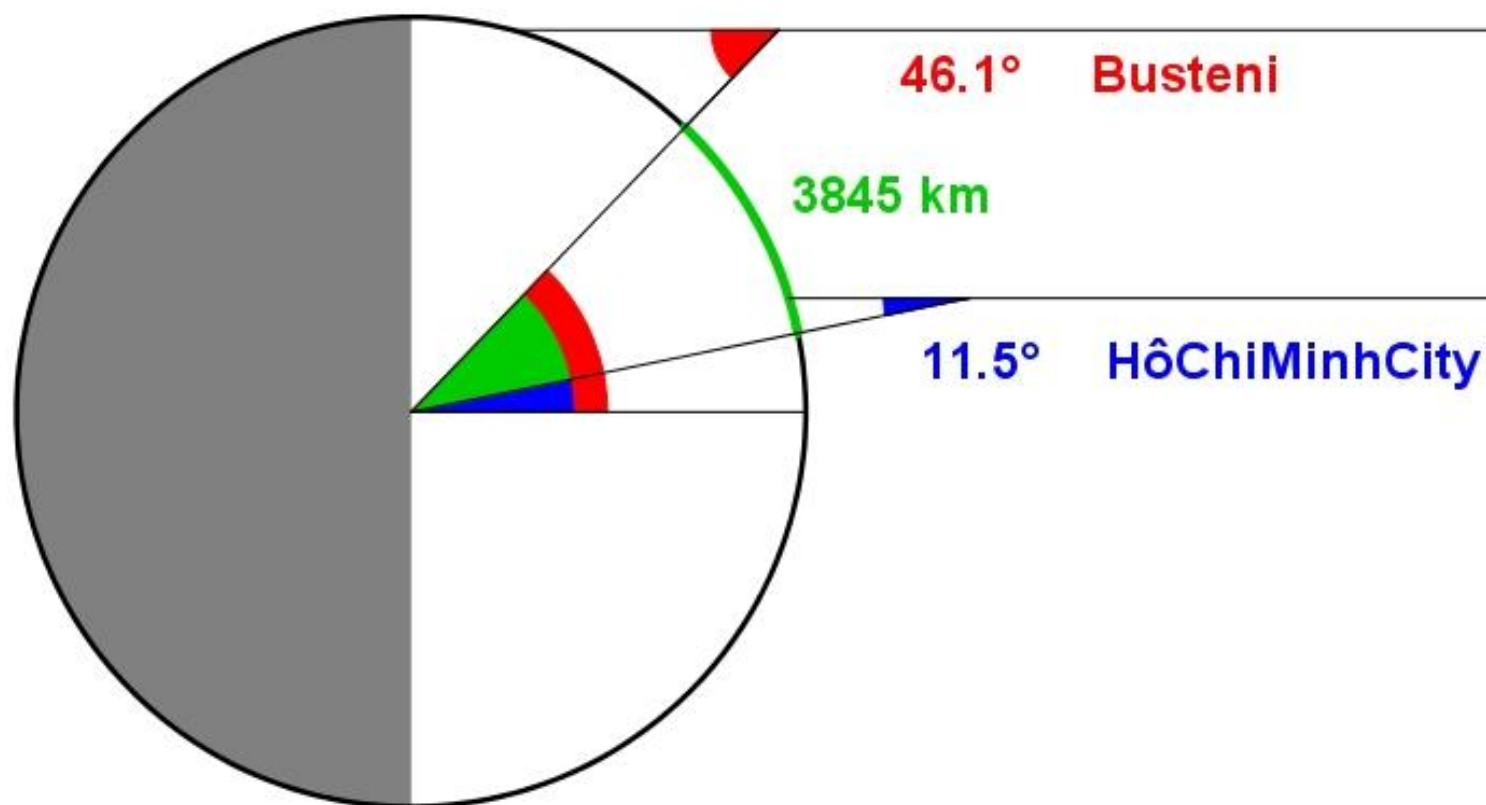


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	HồChiMinhCity	Vietnam	Phú Nhuận High School	10.809	106.676

Date	Gnomon	Shadow	Angle
18 March	69 cm	14 cm	11.5°

18 March 2017 (Busteni-ROMANIA 45.416°)

18 March 2017 (HồChiMinhCity-VIETNAM 10.809°)



$$\text{circumference} = \frac{360^\circ \times 3845 \text{ km}}{46.1^\circ - 11.5^\circ} = 40006 \text{ km}$$



Ilion, Greece

March 2017

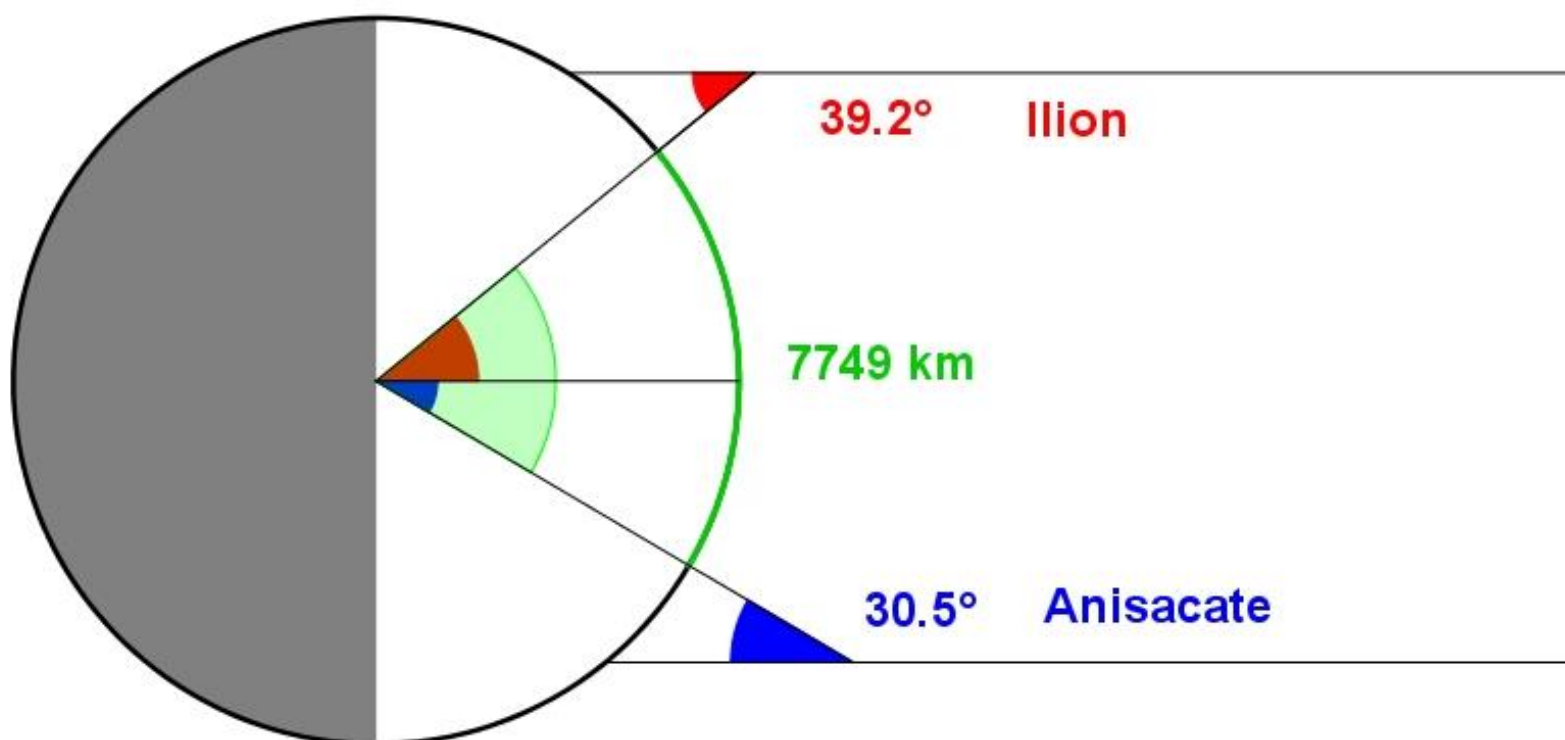


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Ilion	Greece	11th JuniorHigh School of Ilion	38.033	23.697

Date	Gnomon	Shadow	Angle
01 March	99.5 cm	101 cm	45.4 °
03 March	30.4 cm	30.2 cm	44.8 °
17 March	30.4 cm	24.8 cm	39.2 °
22 March	99.5 cm	75.5 cm	37.2 °

17 March 2017 (Ilion-GREECE) Latitude: 38.033 °

17 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 7749 \text{ km}}{39.2^\circ + 30.5^\circ} = 40024 \text{ km}$$



Ioannina, Greece

March 2017

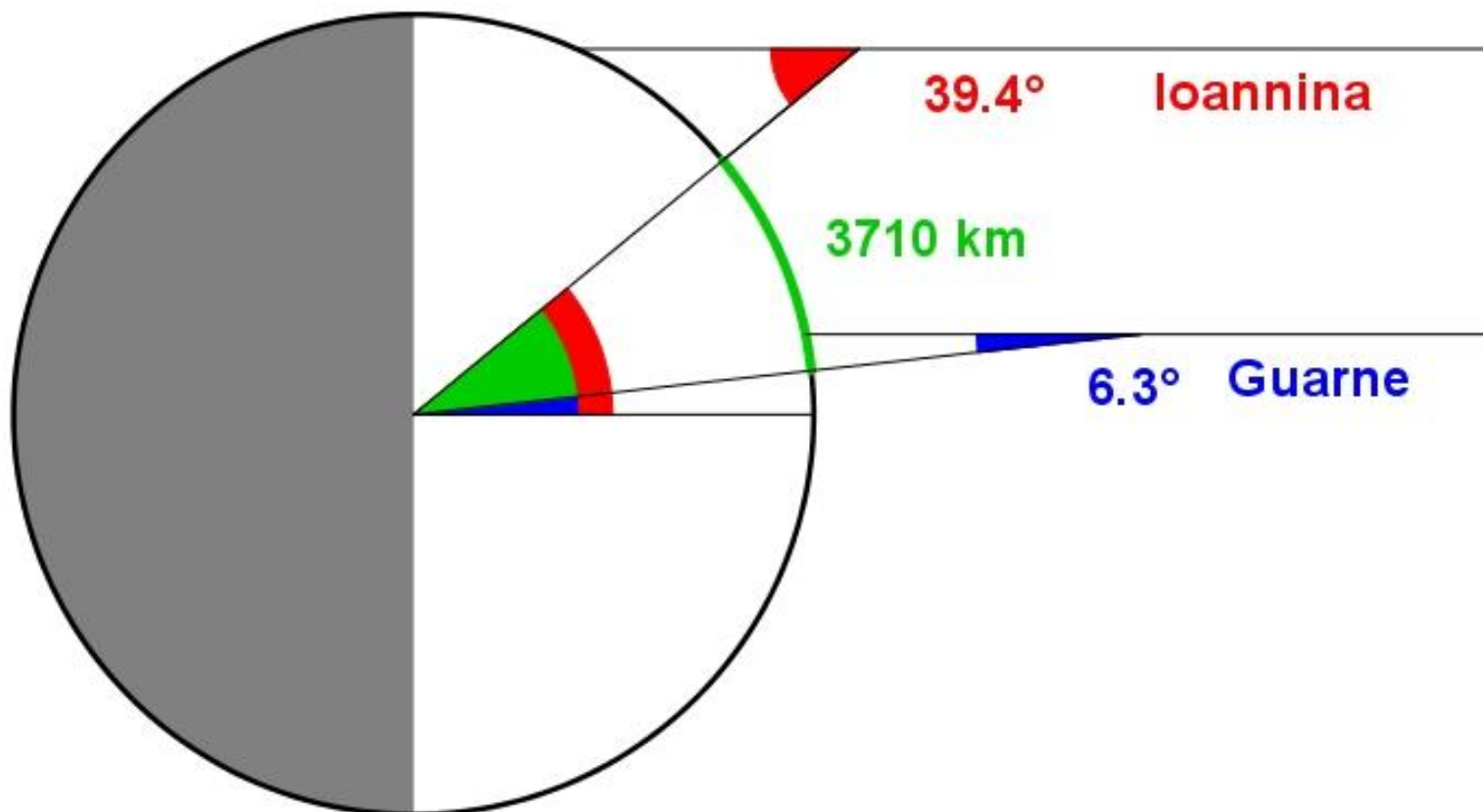


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Ioannina	Greece	Experimental College	39.666	20.845

Date	Gnomon	Shadow	Angle
21 March	100 cm	82 cm	39.4 °

21 March 2017 (Ioannina-GREECE 39.667)

21 March 2017 (Guarne-COLOMBIA 6.274)




$$\text{circumference} = \frac{360^\circ \times 3710 \text{ km}}{39.4^\circ - 6.3^\circ} = 40350 \text{ km}$$



Komotini 2, Greece

March 2017

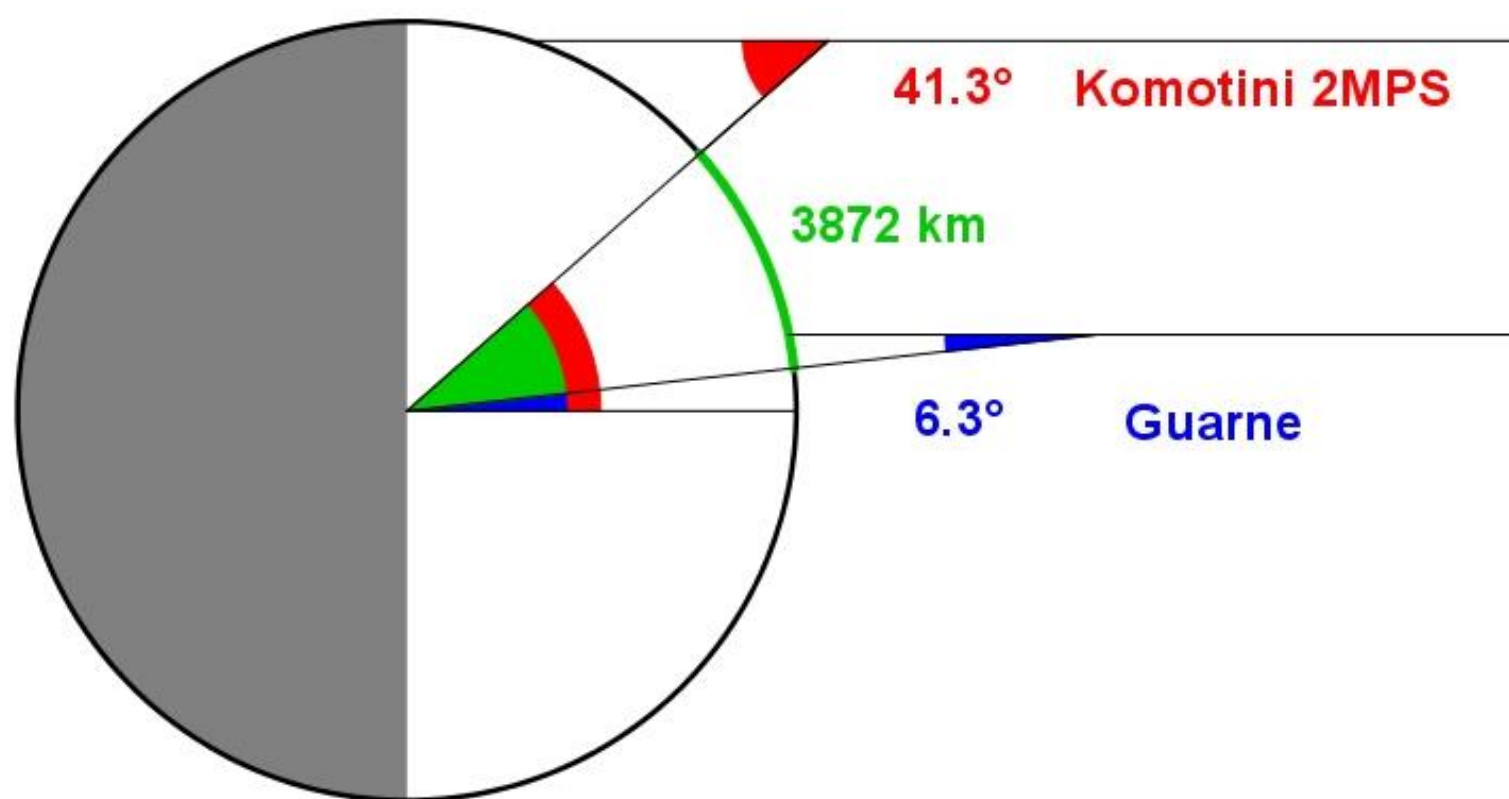


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Komotini	Greece	2nd Minority Primary School	41.124	25.413

Date	Gnomon	Shadow	Angle
21 March	100 cm	88 cm	41.3 °

21 March 2017 (Komotini 2MPS-GREECE) Latitude: 41.124

21 March 2017 (Guarne-COLOMBIA) Latitude: 6.274



$$\text{circumference} = \frac{360^\circ \times 3872 \text{ km}}{41.3^\circ - 6.3^\circ} = 39826 \text{ km}$$



Komotini, Greece

March 2017

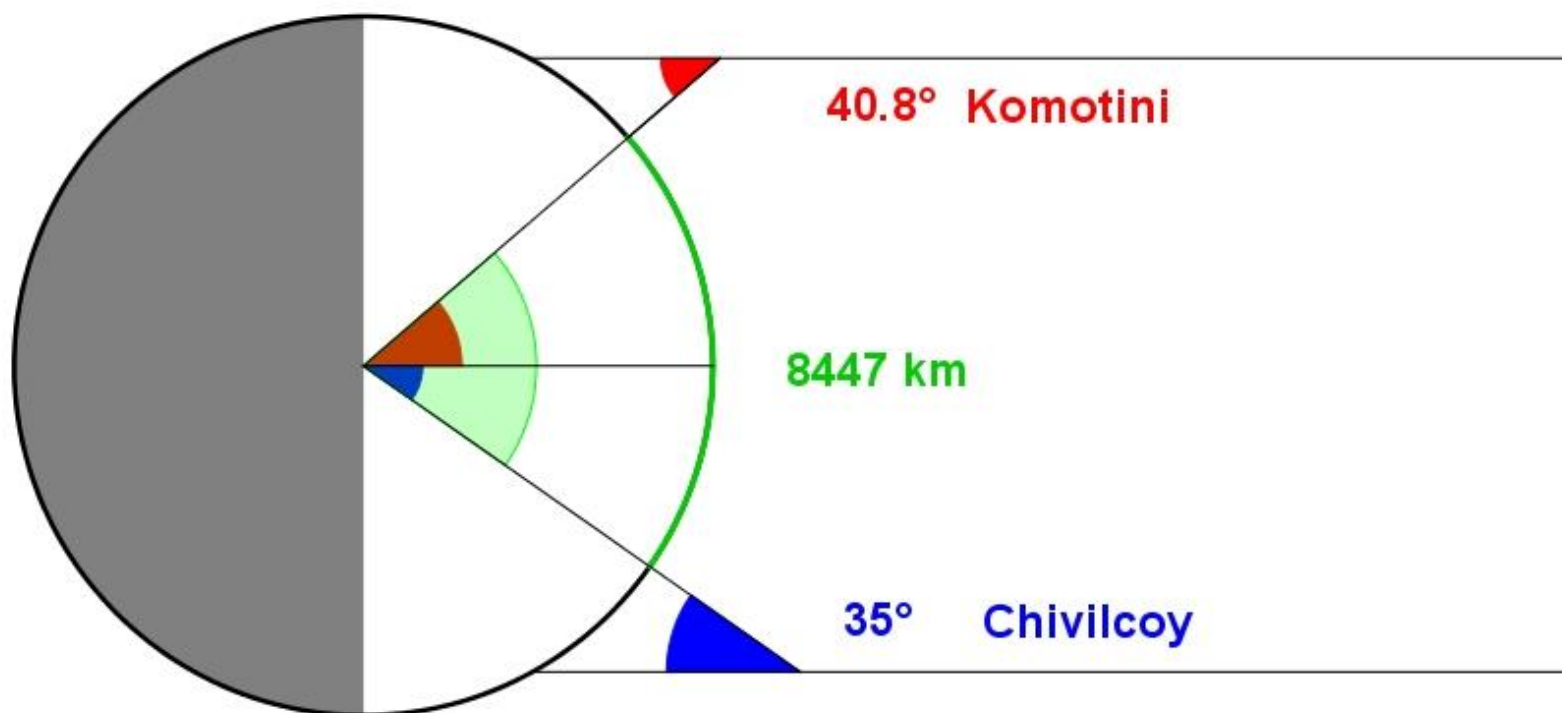


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Komotini	Greece	3rd Junior High School Komotini	41.121	25.394

Date	Gnomon	Shadow	Angle
20 March	100 cm	86.3 cm	40.8 °
21 March	100 cm	84.8 cm	40.3 °

20 March 2017 (Komotini-GREECE) Latitude: 41.121 °

20 March 2017 (Chivilcoy-ARGENTINA) Latitude: -34.911 °




$$\text{circumference} = \frac{360^\circ \times 8447 \text{ km}}{40.8^\circ + 35^\circ} = 40118 \text{ km}$$



Kuantan, Malaysia

March 2017

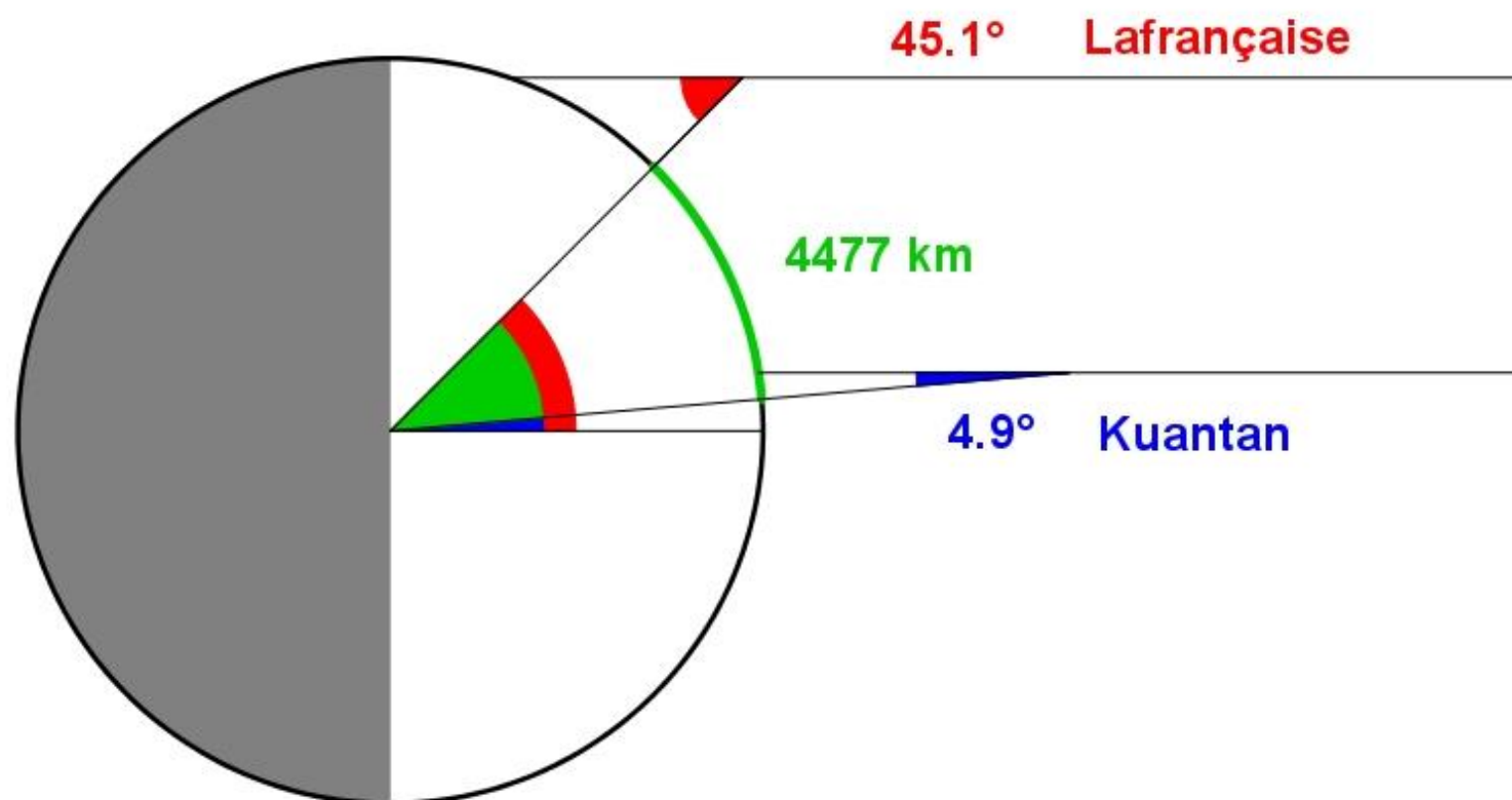


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Kuantan	Malaysia	SMK St Thomas	3.817	103.333

Date	Gnomon	Shadow	Angle
14 March	86 cm	9 cm	6 °
16 March	94 cm	8,6 cm	5.2 °
17 March	60 cm	5.1 cm	4.9 °
18 March	98.5 cm	8.1 cm	4.7 °
30 March	88 cm	-2.0 cm	-1.3 °

17 March 2017 (Lafrançaise-FRANCE 44.127)

17 March 2017 (Kuantan-MALAYSIA 3.827)




$$\text{circumference} = \frac{360^\circ \times 4477 \text{ km}}{45.1^\circ - 4.9^\circ} = 40093 \text{ km}$$



Lafrançaise, France

March 2017

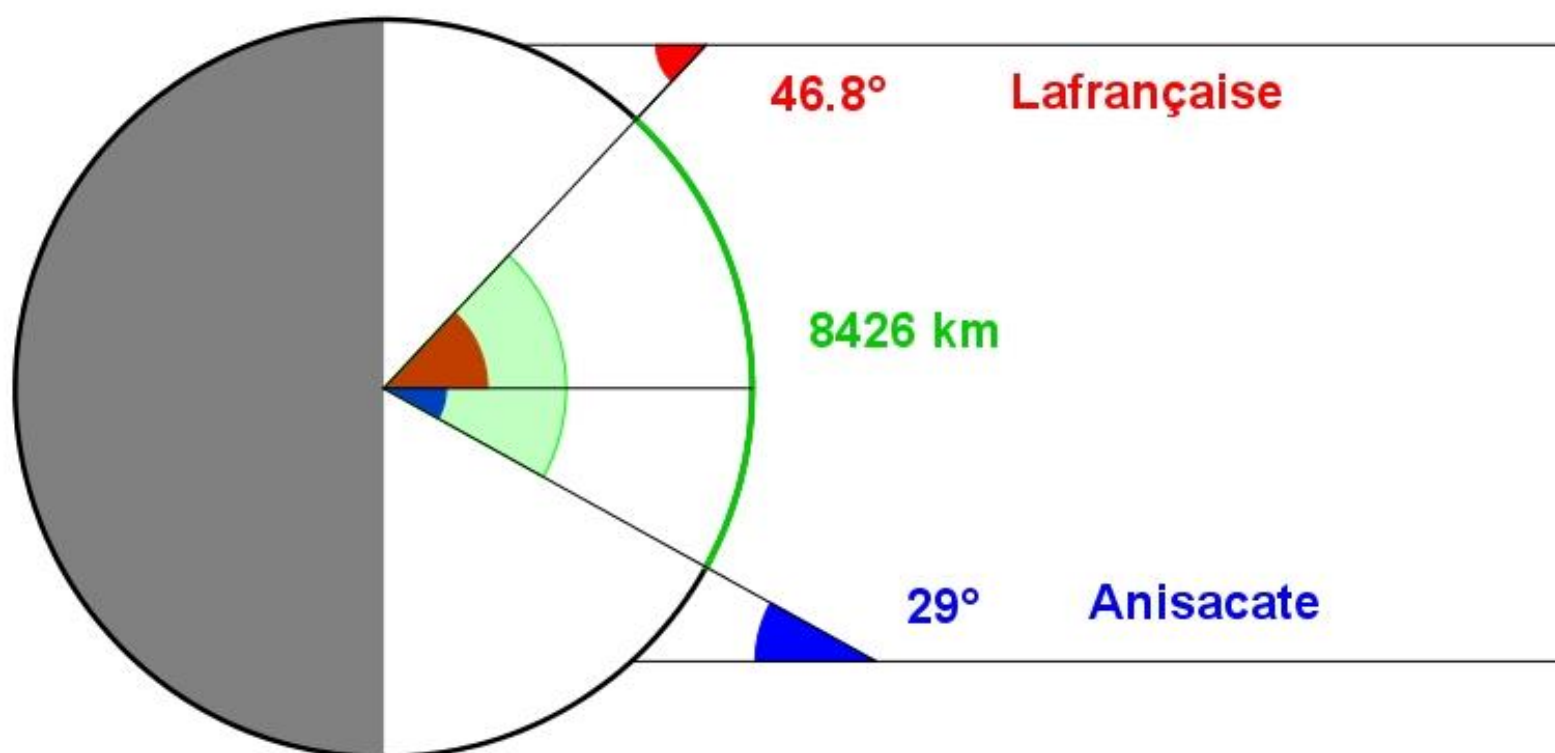


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237

Date	Gnomon	Shadow	Angle
03 March	100 cm	126 cm	51.6 °
06 March	100 cm	119 cm	50.0 °
10 March	100 cm	111.5 cm	48.1 °
13 March	100 cm	106.4 cm	46.8 °
14 March	100 cm	105,5 cm	45.5 °
17 March	100 cm	100.4 cm	45.1 °
20 March	100 cm	97.5 cm	44.3 °
27 March	100 cm	88.0 cm	41.3 °
28 March	100 cm	87.0 cm	41.0 °
31 March	100 cm	83 cm	39.7 °

13 March 2017 (Lafrançaise-FRANCE) Latitude: 44.127 °

13 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 8426 \text{ km}}{46.8^\circ + 29^\circ} = 40018 \text{ km}$$



Marena, India

March 2017

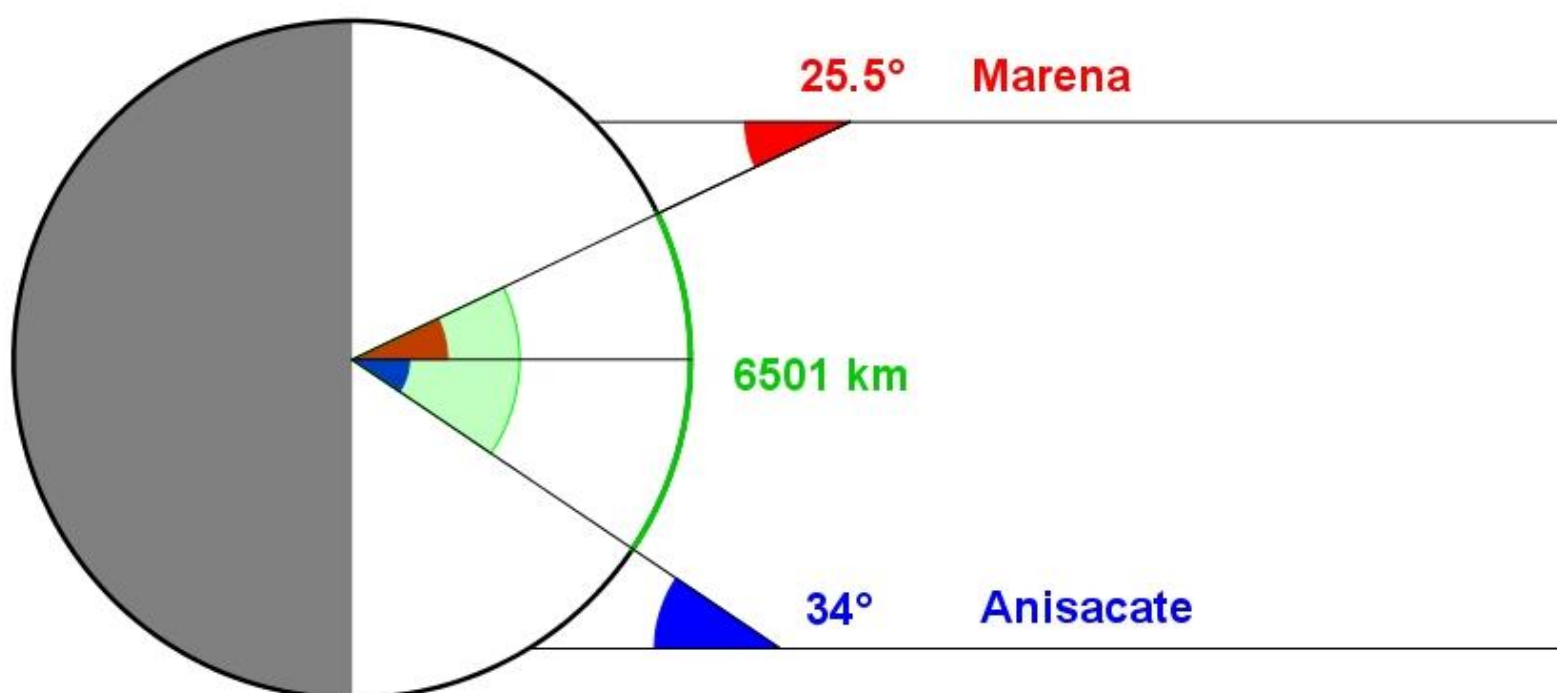


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Marena	India	Kasturba Gandhi Balika Vidyalaya	26.800	78.030

Date	Gnomon	Shadow	Angle
26 March	54.5 cm	26 cm	25.5°

26 March 2017 (Marena-INDIA) Latitude: 26.8 °

26 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 6501 \text{ km}}{25.5^\circ + 34^\circ} = 39334 \text{ km}$$



Mărgineni, Romania

March 2017

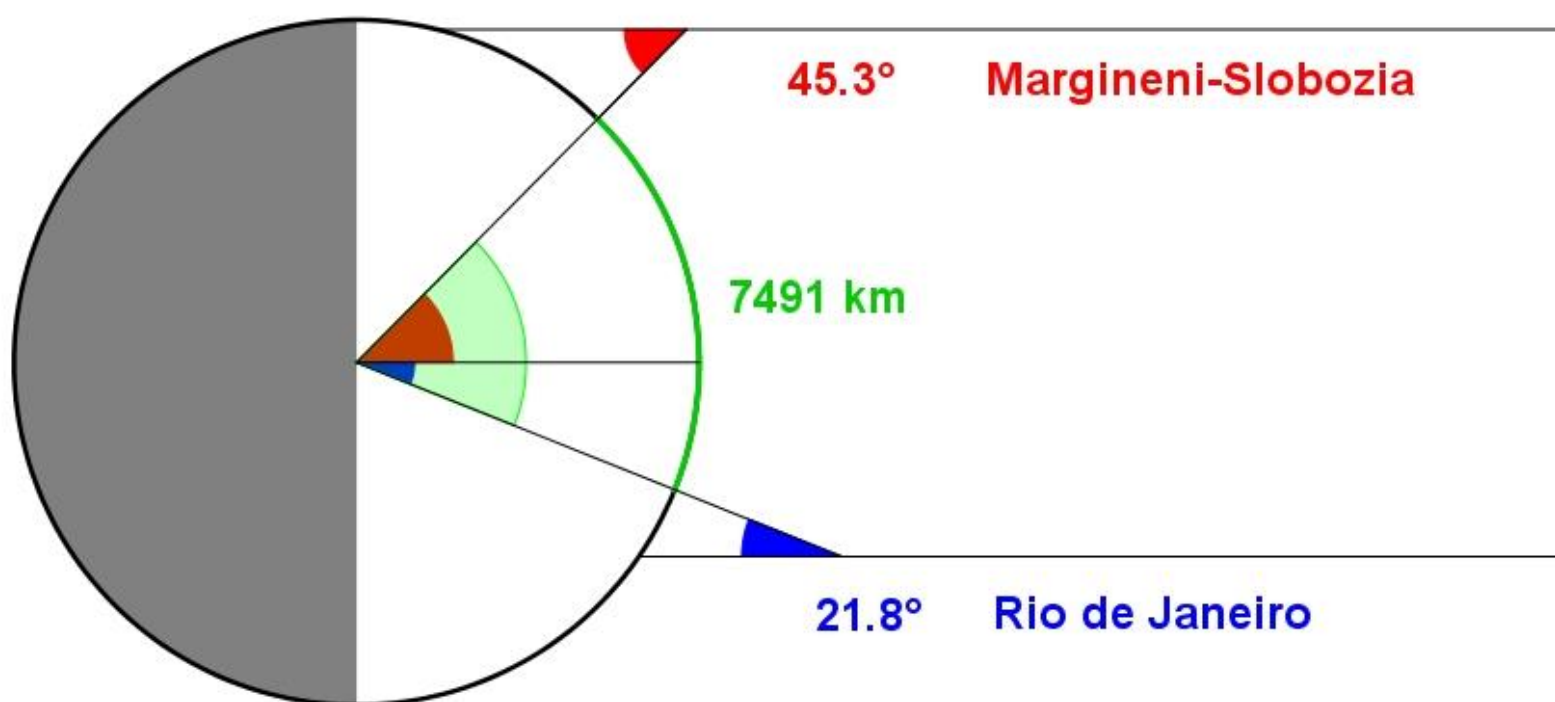


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Mărgineni	Romania	Gh. Popescu School	44.533	24.554

Date	Gnomon	Shadow	Angle
20 March	90 cm	91 cm	45.3 °
21 March	100 cm	100 cm	45.0 °
22 March	100 cm	97.5 cm	44.3 °
23 March	100 cm	97 cm	44.1 °
27 March	100 cm	96.5 cm	44.0 °
28 March	100 cm	91 cm	42.3 °
29 March	100 cm	88 cm	41.3 °
30 March	100 cm	88.2 cm	41.4 °
31 March	100 cm	87.9 cm	41.3 °

20 March 2017 (Margineni-Slobozia-ROMANIA) Latitude: 44.533 °

20 March 2017 (Rio de Janeiro-BRAZIL) Latitude: -22.89 °



$$\text{circumference} = \frac{360^\circ \times 7491 \text{ km}}{45.3^\circ + 21.8^\circ} = 40190 \text{ km}$$



Marina di Carrara, Italy

March 2017

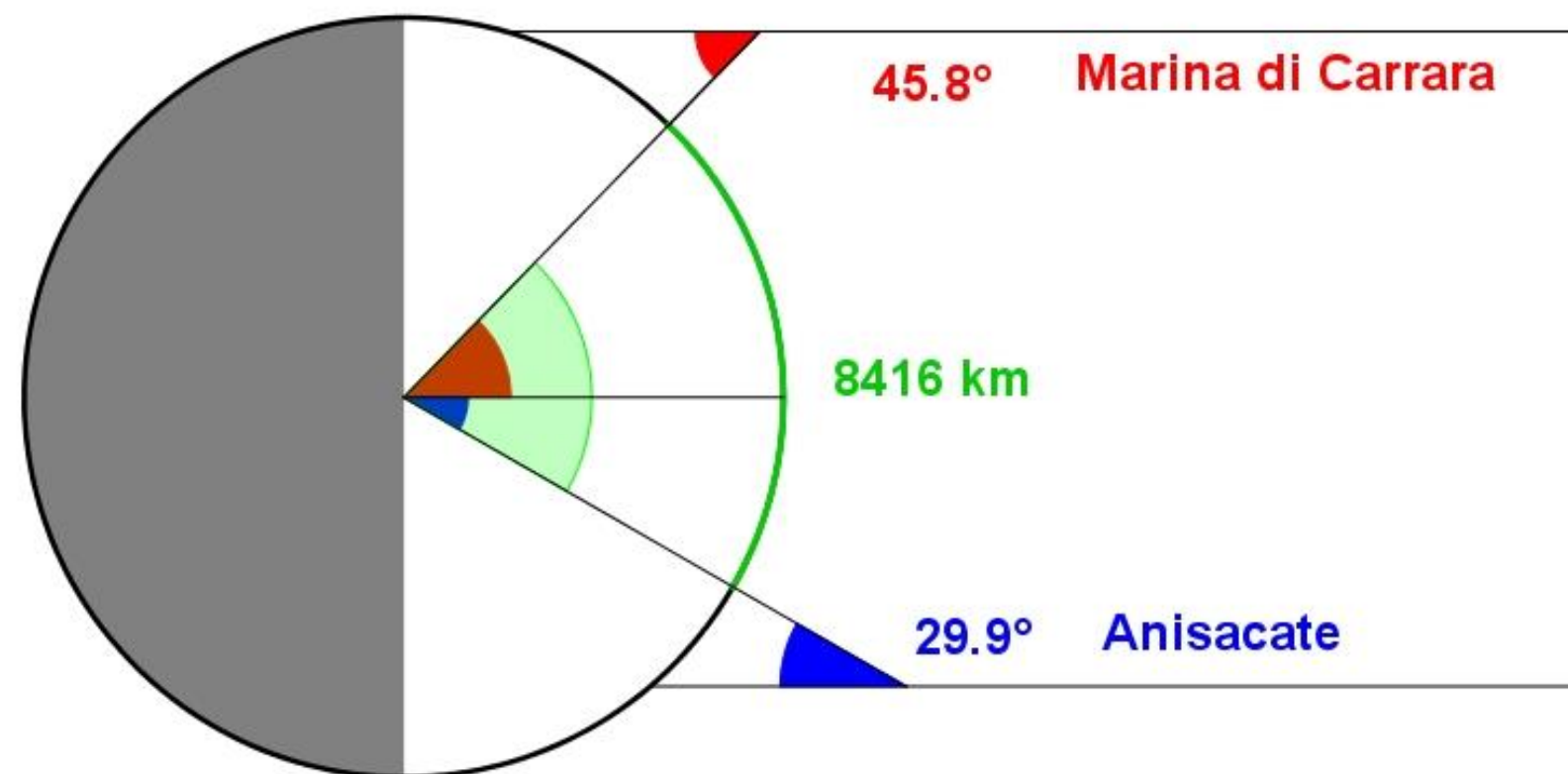


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Marina di Carrara	Italy	M Buonarroti primary school	44.045	10.031

Date	Gnomon	Shadow	Angle
15 March	10 cm	10.3 cm	45.8 °
28 March	10 cm	8.6 cm	40.7 °

15 March 2017 (Marina di Carrara-ITALY) Latitude: 44.033 °

15 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 8416 \text{ km}}{45.8^\circ + 29.9^\circ} = 40023 \text{ km}$$



Merlara, Italy

March 2017

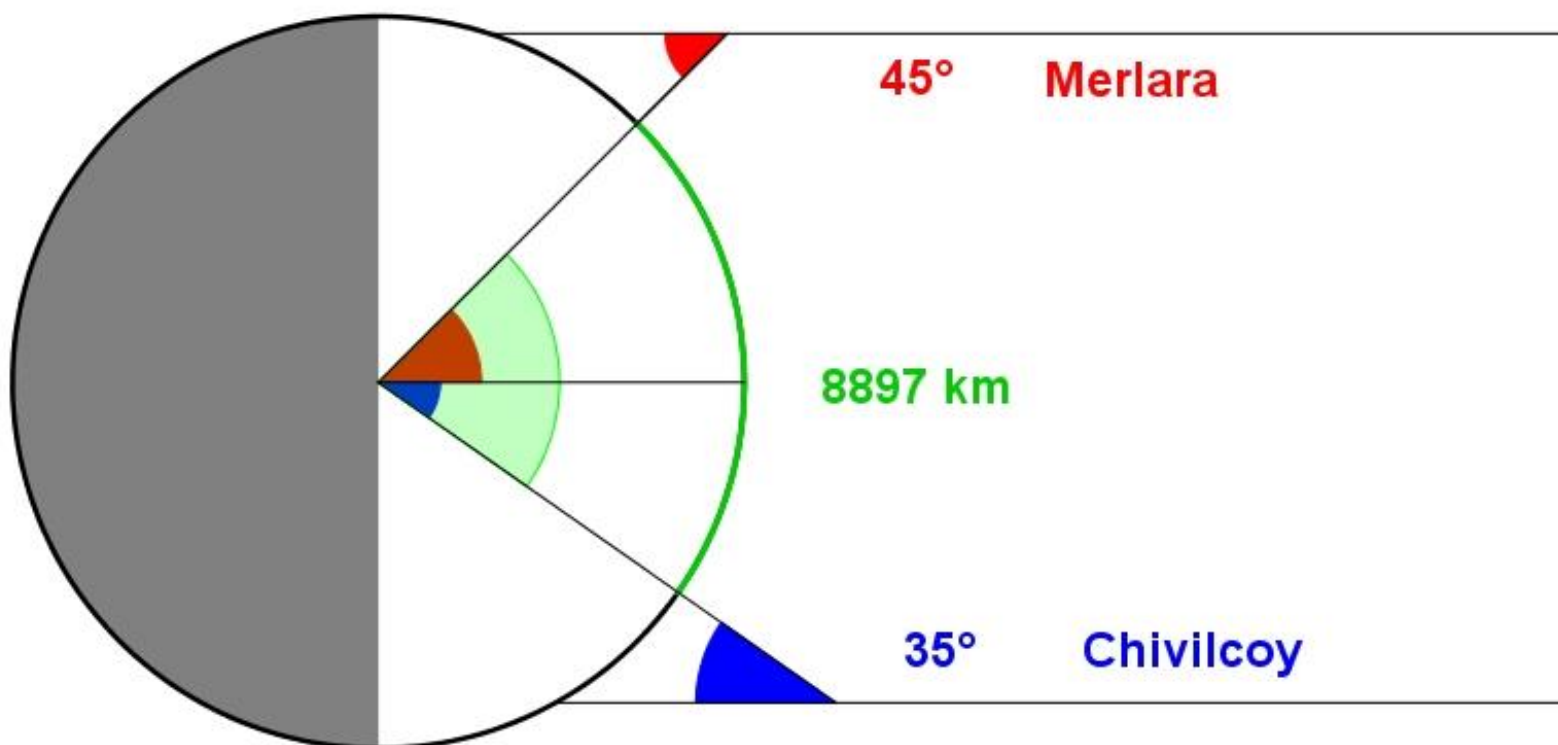


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Merlara	Italy	Lower Secondary School "Dante Alighieri"	45.166	11.433

Date	Gnomon	Shadow	Angle
07 March	100 cm	125 cm	51.3 °
08 March	100 cm	113 cm	48.5 °
10 March	78 cm	85 cm	47.5 °
13 March	100 cm	109 cm	47.5 °
20 March	100 cm	100 cm	45.0 °
24 March	100 cm	95.5 cm	43.7 °
27 March	100 cm	88 cm	41.3 °

20 March 2017 (Merlara-ITALY) Latitude: 45.166 °

20 March 2017 (Chivilcoy-ARGENTINA) Latitude: -34.911 °



$$\text{circumference} = \frac{360^\circ \times 8897 \text{ km}}{45^\circ + 35^\circ} = 40037 \text{ km}$$



Moradabad, India

March 2017

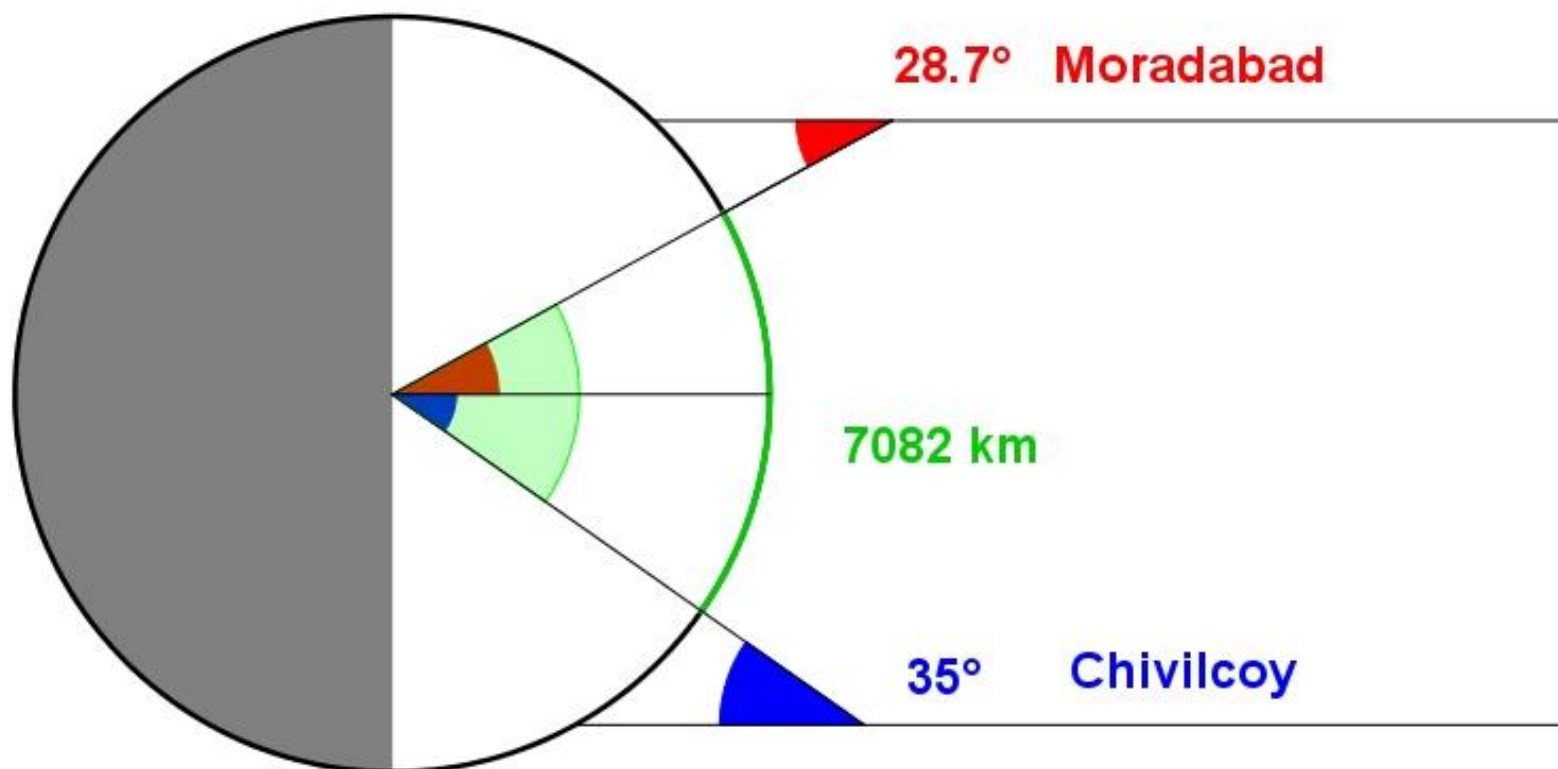


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Moradabad	India	Parker Inter College Moradabad	28.831	78.778

Date	Gnomon	Shadow	Angle
20 March	42 cm	23 cm	28.7 °

20 March 2017 (Moradabad-INDIA) Latitude: 28.831 °

20 March 2017 (Chivilcoy-ARGENTINA) Latitude: -34.911 °




$$\text{circumference} = \frac{360^\circ \times 7082 \text{ km}}{28.7^\circ + 35^\circ} = 40024 \text{ km}$$



Mumbai, India

March 2017

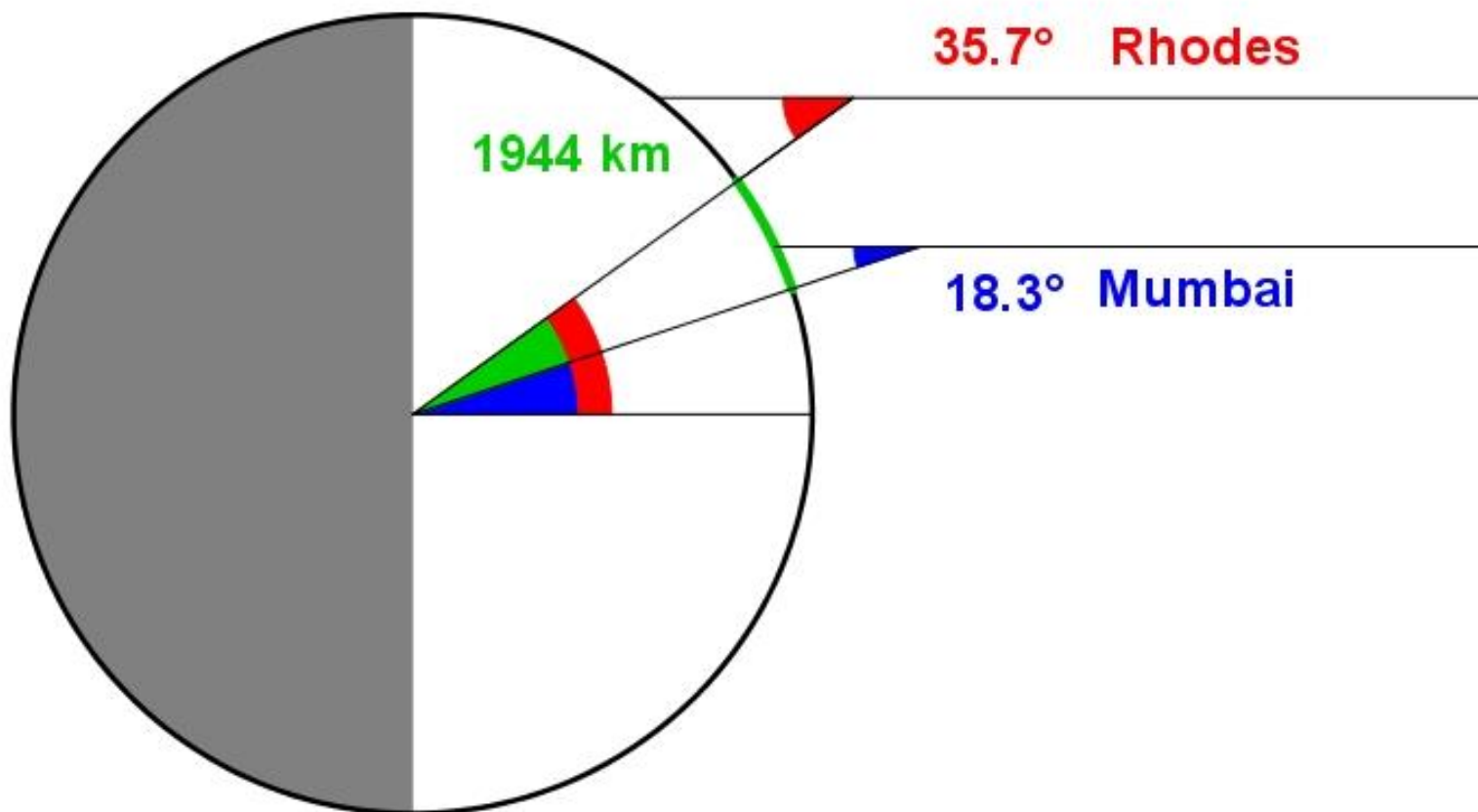


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Mumbai	India	Marwari Vidyalaya High School	18.957	72.818

Date	Gnomon	Shadow	Angle
20 March	115.8 cm	38.3 cm	18.3 °

20 March 2017 (Rhodes-GREECE 36.45)

20 March 2017 (Mumbai-INDIA 18.951)




$$\text{circumference} = \frac{360^\circ \times 1944 \text{ km}}{35.7^\circ - 18.3^\circ} = 40221 \text{ km}$$



Narhara Dhikoli, India

March 2017

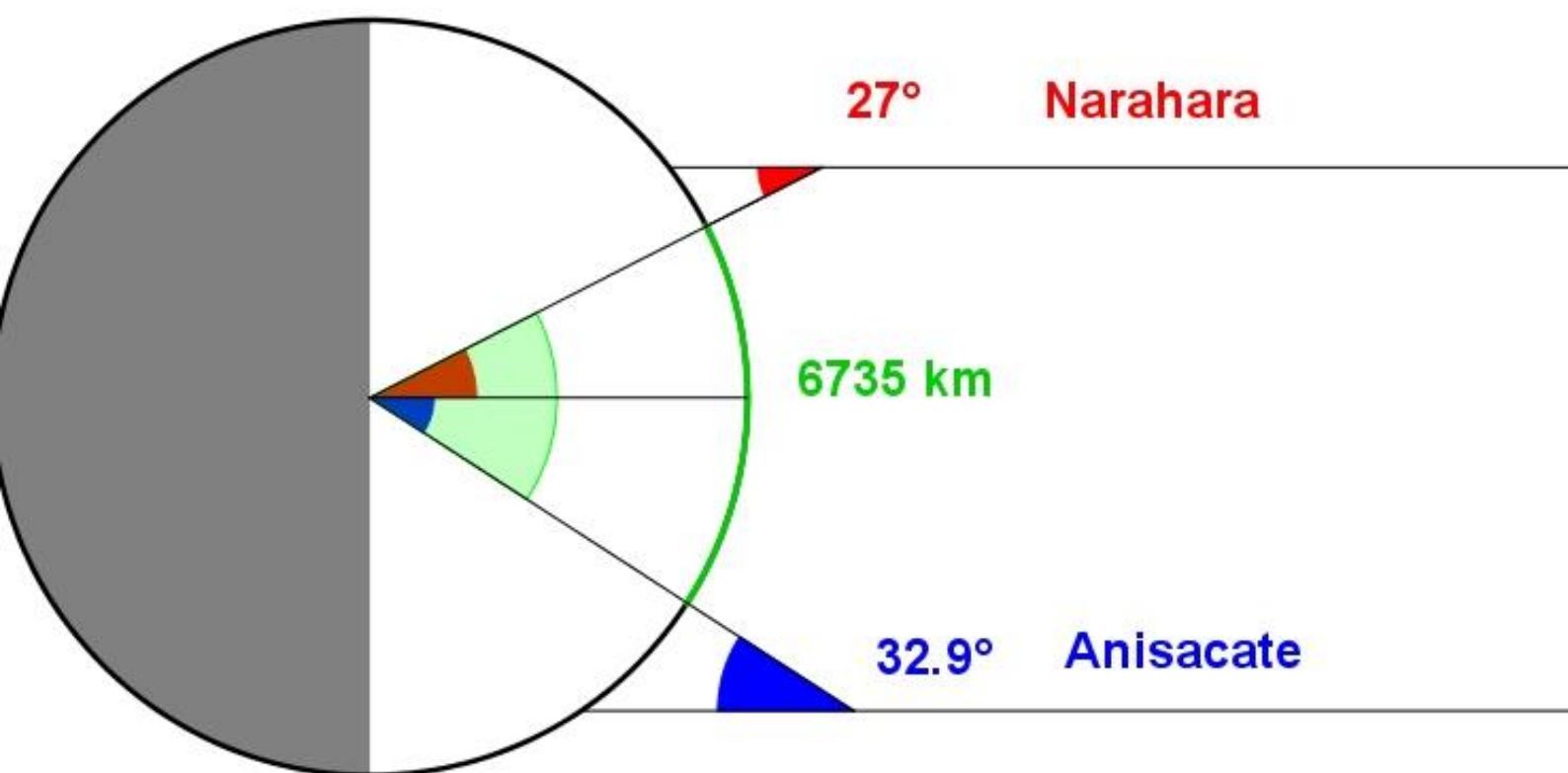


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Narhara Dhikoli	India	Junior High School	28.903	77.725

Date	Gnomon	Shadow	Angle
23 March	177 cm	90 cm	27.0 °

23 March 2017 (Narahara-INDIA) Latitude: 28.903 °

23 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 6735 \text{ km}}{27^\circ + 32.9^\circ} = 40477 \text{ km}$$

Oradea, Romania

March 2017

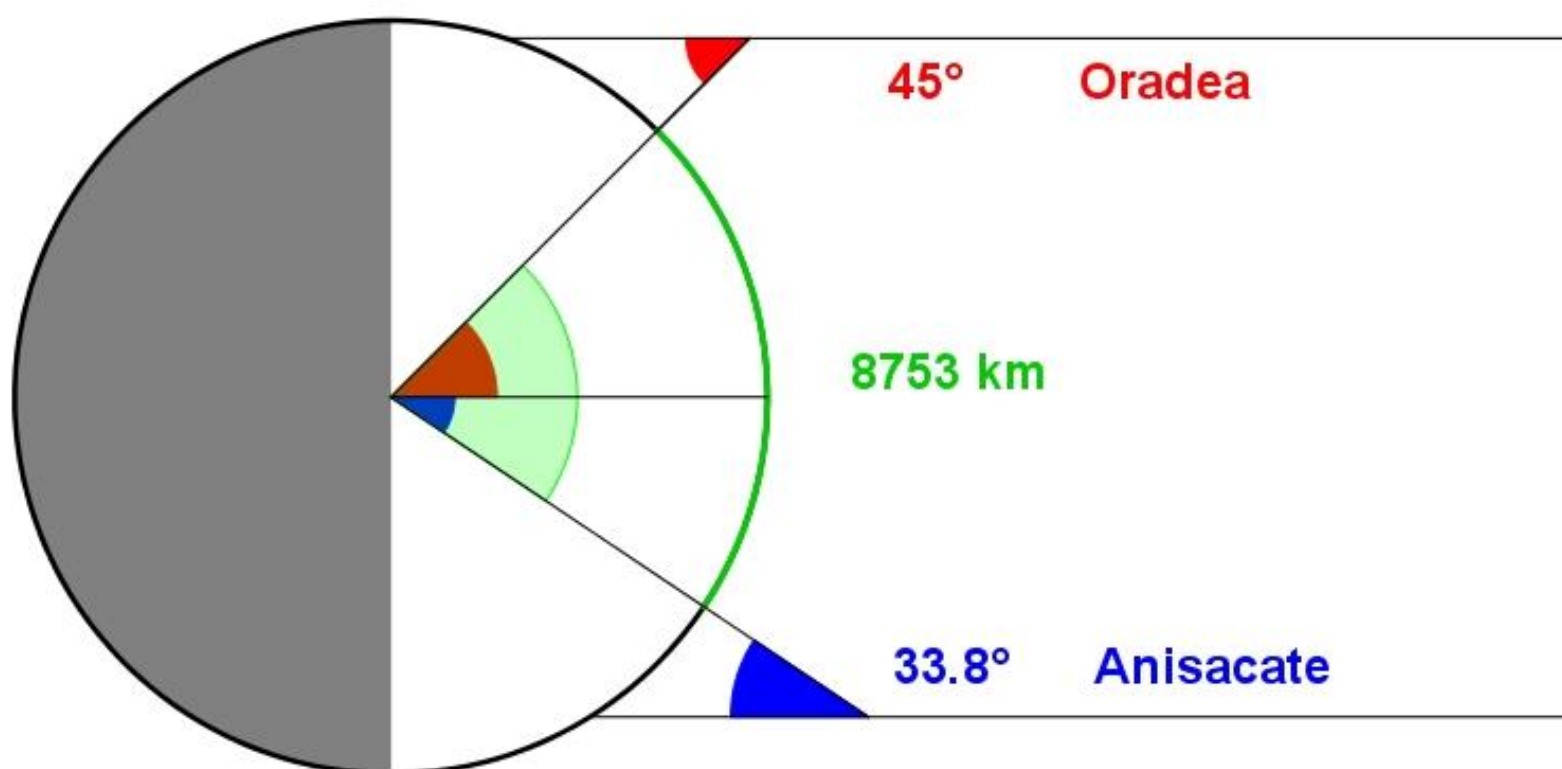


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Oradea	Romania	Colegiul Technic "Traian Vuia"	47.064	21.917

Date	Gnomon	Shadow	Angle
25 March	100 cm	100.1 cm	45°
27 March	100 cm	97.4 cm	44.2°

25 March 2017 (Oradea-ROMANIA) Latitude: 47.064 °

25 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 8753 \text{ km}}{45^\circ + 33.8^\circ} = 39988 \text{ km}$$



Petroupoli, Greece

March 2017

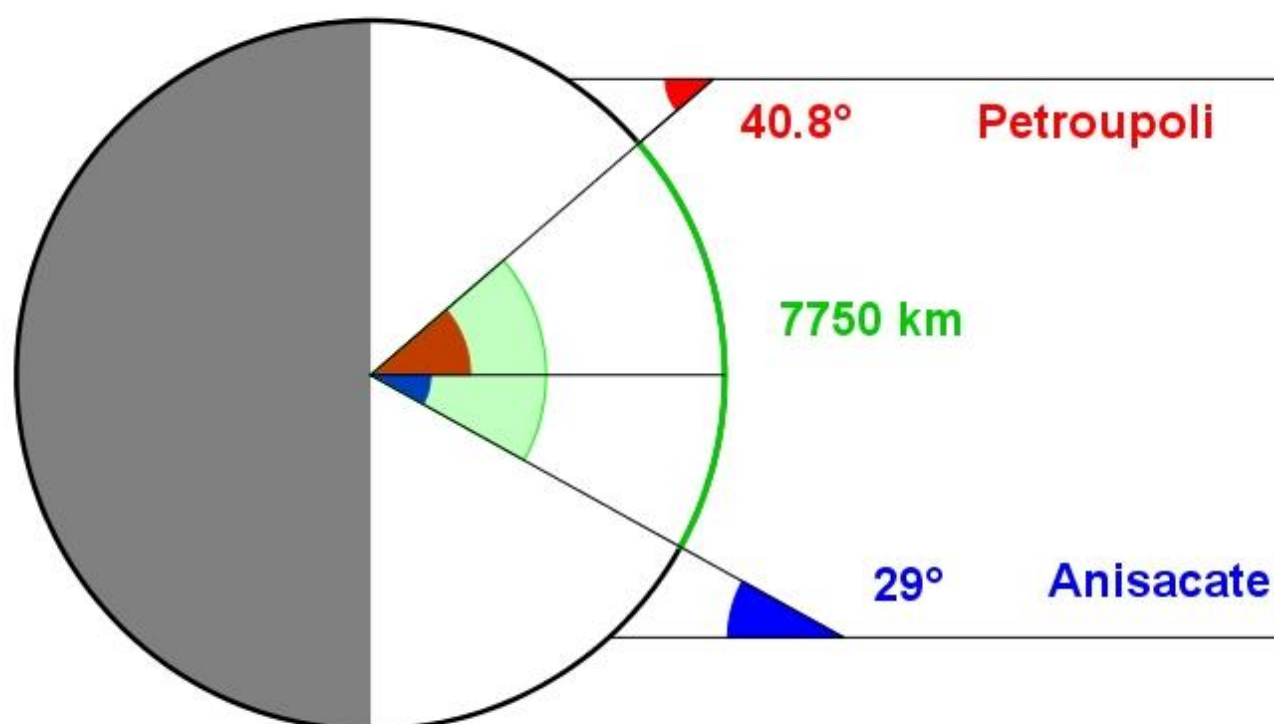


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Petroupoli	Greece	4o Junior High School	38.036	23.674

Date	Gnomon	Shadow	Angle
02 March	52.3 cm	51.8 cm	44.7 °
06 March	52.3 cm	50.2 cm	43.8 °
07 March	52.3 cm	49.0 cm	43.1 °
13 March	52.3 cm	45.1 cm	40.8 °
14 March	52.3 cm	44.5 cm	40.4 °
16 March	52.3 cm	43.3 cm	39.6 °
20 March	52.3 cm	40.9 cm	38 °
21 March	52.3 cm	40.3 cm	37.6 °
27 March	52.3 cm	36.9 cm	35.2 °
30 March	52.3 cm	35.2 cm	33.9 °
31 March	52.3 cm	34.8 cm	33.6 °

13 March 2017 (Petroupoli-GREECE) Latitude: 38.036 °

13 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 7750 \text{ km}}{40.8^\circ + 29^\circ} = 39971 \text{ km}$$



Piraeus, Greece

March 2017

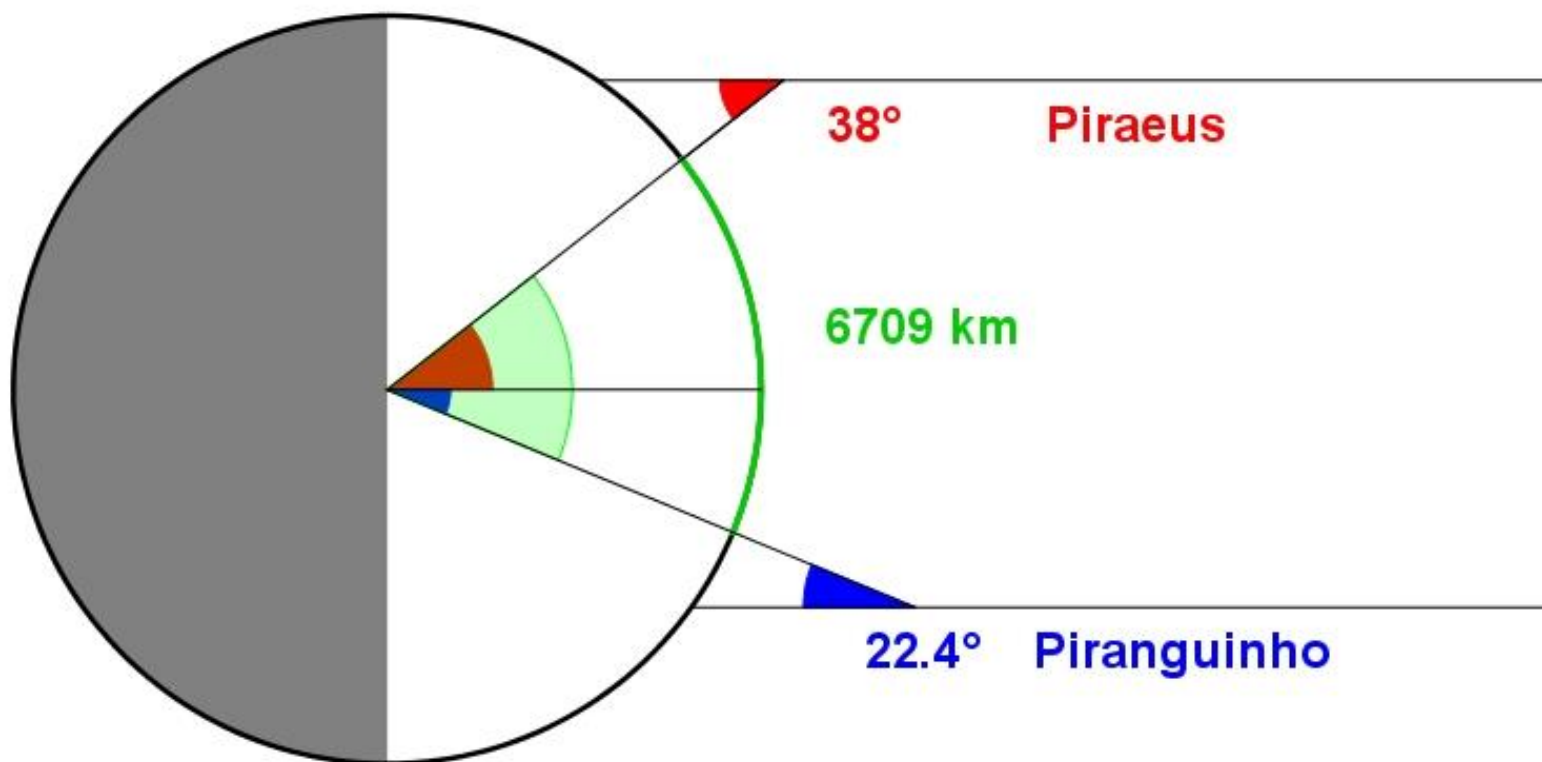


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Piraeus	Greece	2nd Junior High School of Korydallos	37.977	23.655

Date	Gnomon	Shadow	Angle
01 March	100 cm	101 cm	45.3 °
13 March	100 cm	85 cm	40.4 °
14 March	100 cm	84 cm	40 °
20 March	100 cm	78 cm	38 °
31 March	100 cm	65.3 cm	33.1 °

20 March 2017 (Piraeus-GREECE) Latitude: 37.977 °

20 March 2017 (Piranguinho-BRAZIL) Latitude: -22.411 °



$$\text{circumference} = \frac{360^\circ \times 6709 \text{ km}}{38^\circ + 22.4^\circ} = 39987 \text{ km}$$



Piranguinho, Brazil

March 2017

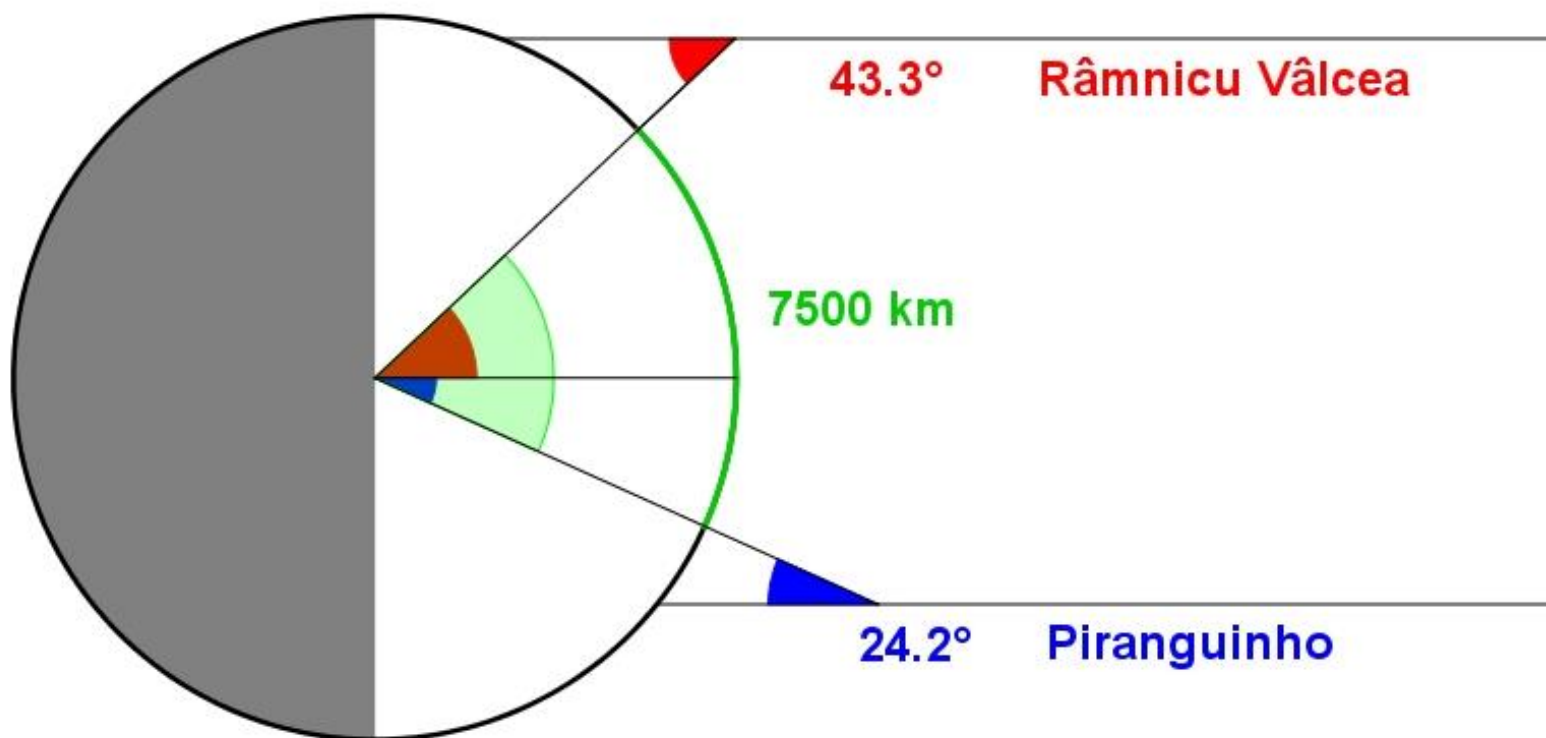


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Piranguinho	Brazil	Universidade Federal de Itajubá	-22.411	-45.535

Date	Gnomon	Shadow	Angle
07 March	70 cm	-22.0 cm	-17.4 °
11 March	70 cm	-24.0 cm	-18.9 °
14 March	70 cm	-26.2 cm	-20.5 °
17 March	70 cm	-27.8 cm	-21.7 °
20 March	70 cm	-28.8 cm	-22.4 °
24 March	70 cm	-31.4 cm	-24.2 °
28 March	70 cm	-34.0 cm	-25.9 °
30 March	70 cm	-36.6 cm	-27.6 °

24 March 2017 (Râmnicu Vâlcea-ROMANIA) Latitude: 45.093 °

24 March 2017 (Piranguinho-BRAZIL) Latitude: -22.411 °



$$\text{circumference} = \frac{360^\circ \times 7500 \text{ km}}{43.3^\circ + 24.2^\circ} = 40000 \text{ km}$$



07.03.2017



20.03.2017

Râmnicu Vâlcea, Romania

March 2017

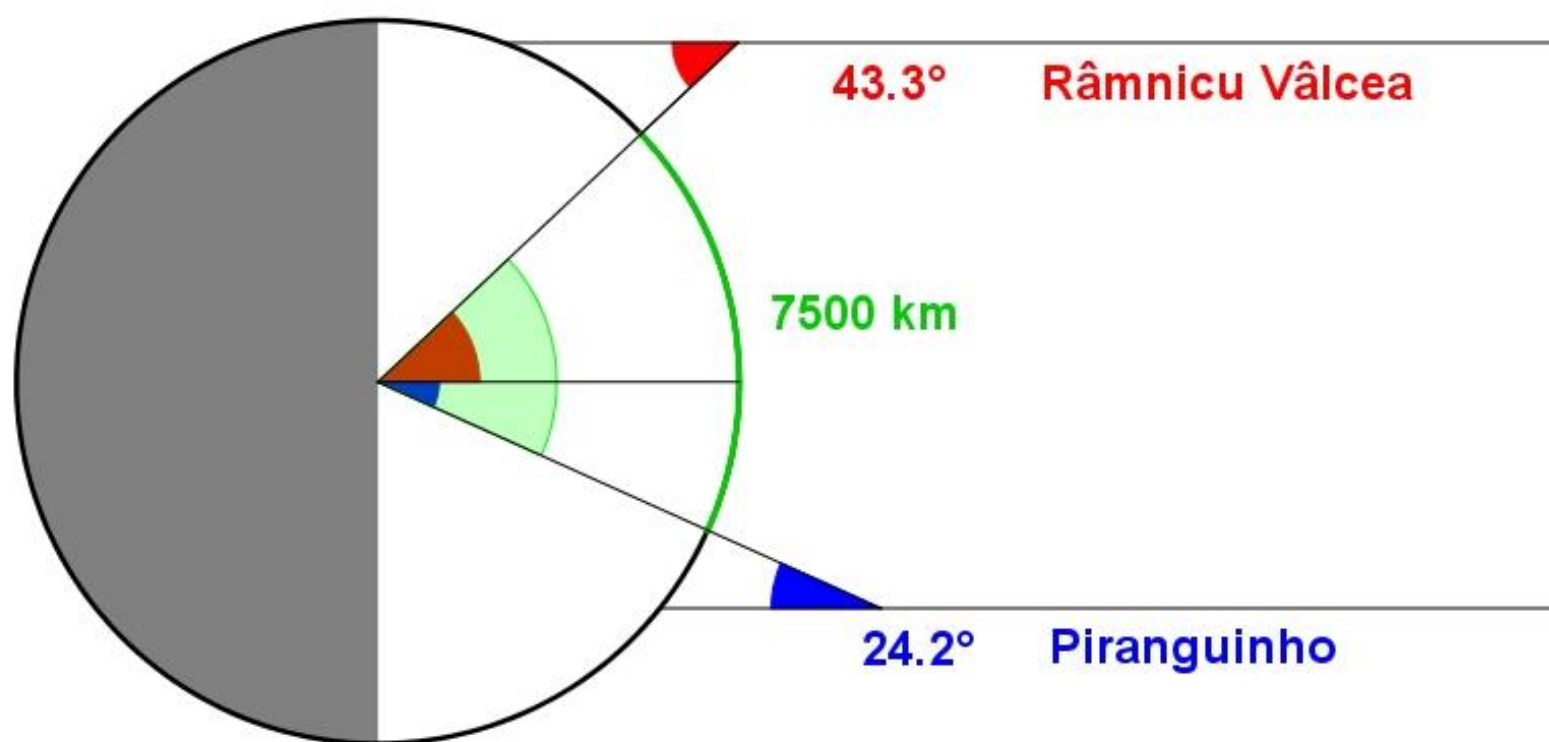


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Râmnicu Vâlcea	Romania	S.G. Nr4 Gradinita Dumbrava Minuata	45.093	24.358

Date	Gnomon	Shadow	Angle
20 March	120 cm	121.4 cm	45.3 °
21 March	114.4 cm	113 cm	44.6 °
22 March	120 cm	117 cm	44.3 °
23 March	120 cm	117 cm	44.3 °
24 March	120 cm	113 cm	43.3 °
28 March	120 cm	104 cm	40.9 °
30 March	120 cm	104.6 cm	41.1 °

24 March 2017 (Râmnicu Vâlcea-ROMANIA) Latitude: 45.093 °

24 March 2017 (Piranguinho-BRAZIL) Latitude: -22.411 °



$$\text{circumference} = \frac{360^\circ \times 7500 \text{ km}}{43.3^\circ + 24.2^\circ} = 40000 \text{ km}$$



Rhodes, Greece

March 2017

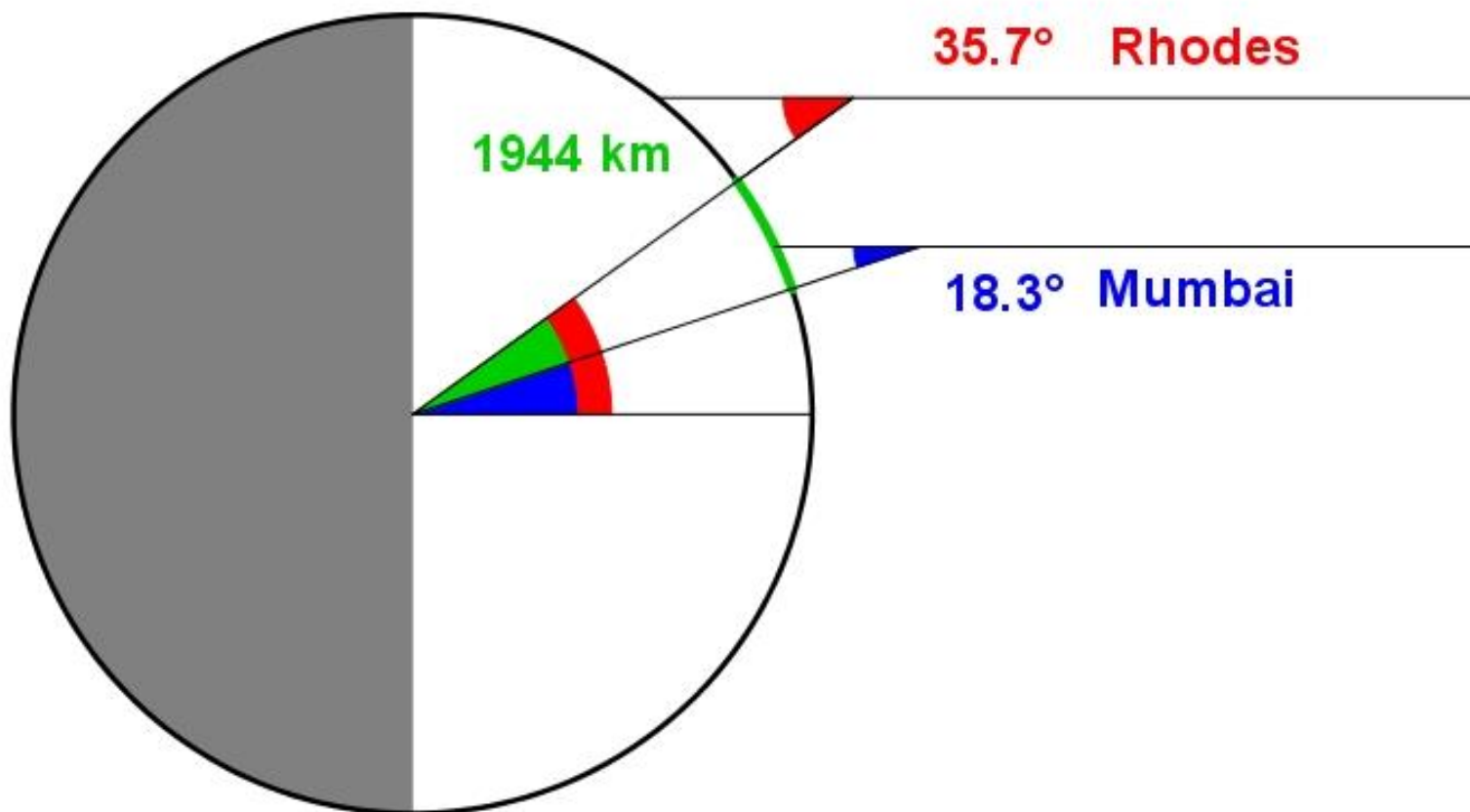


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rhodes	Greece	2o Experimental Primary School of Rhodes	36.450	28.371

Date	Gnomon	Shadow	Angle
20 March	34.8 cm	25 cm	35.7 °

20 March 2017 (Rhodes-GREECE 36.45)

20 March 2017 (Mumbai-INDIA 18.951)




$$\text{circumference} = \frac{360^\circ \times 1944 \text{ km}}{35.7^\circ - 18.3^\circ} = 40221 \text{ km}$$



Rio de Janeiro CENOM, Brazil

March 2017

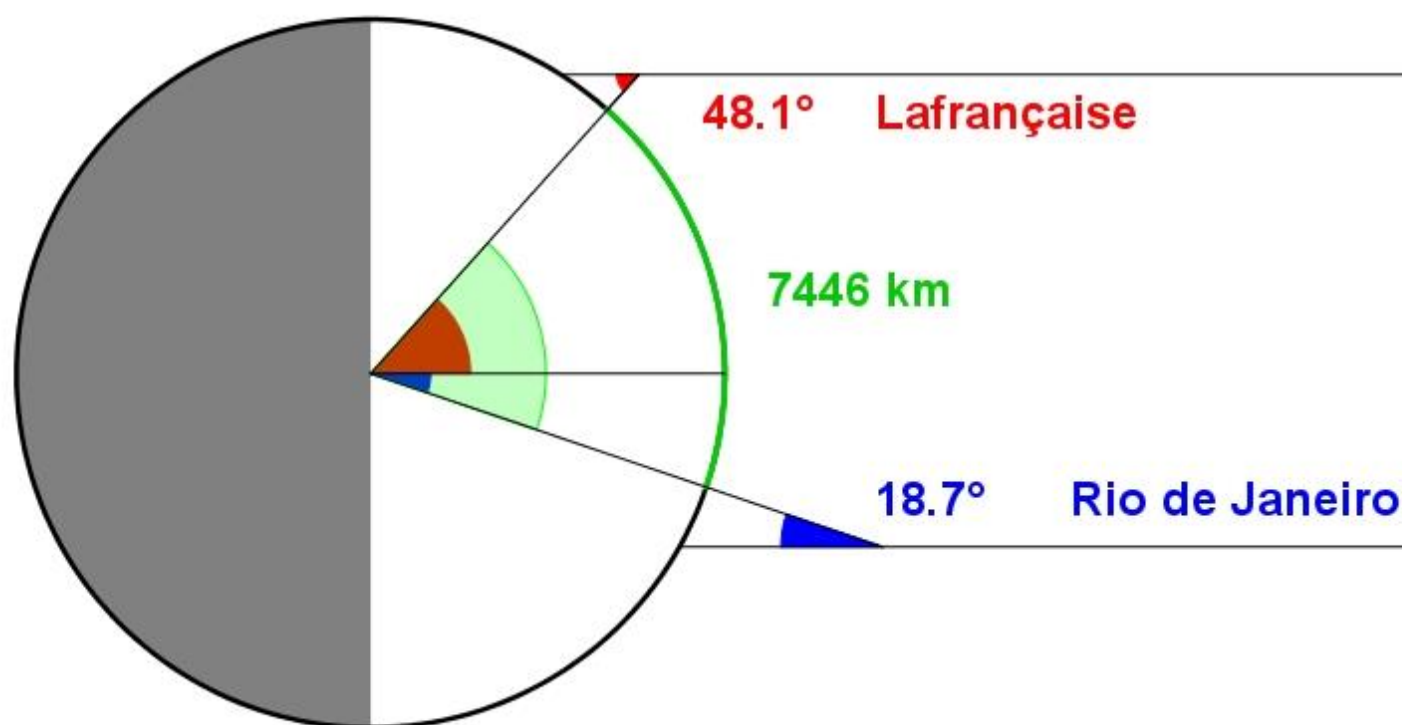


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317

Date	Gnomon	Shadow	Angle
02 March	74 cm	-19 cm	-14.4 °
03 March	74 cm	-20 cm	-15.1 °
07 March	74 cm	-24.5 cm	-18.3 °
09 March	74 cm	-26 cm	-19.4 °
10 March	74 cm	-25 cm	-18.7 °
16 March	74 cm	-27.5 cm	-20.4 °
17 March	74 cm	-26 cm	-19.4 °
20 March	100 cm	-40 cm	-21.8 °
21 March	100 cm	-40 cm	-21.8 °
22 March	100 cm	-40 cm	-21.8 °
24 March	100 cm	-40 cm	-21.8 °
29 March	100 cm	-48 cm	-25.6 °
30 March	100 cm	-48 cm	-25.6 °

10 March 2017 (Lafrançaise-FRANCE) Latitude: 44.127 °

10 March 2017 (Rio de Janeiro-BRAZIL) Latitude: -22.89 °



$$\text{circumference} = \frac{360^\circ \times 7446 \text{ km}}{48.1^\circ + 18.7^\circ} = 40128 \text{ km}$$



Rio de Janeiro Méier, Brazil

March 2017

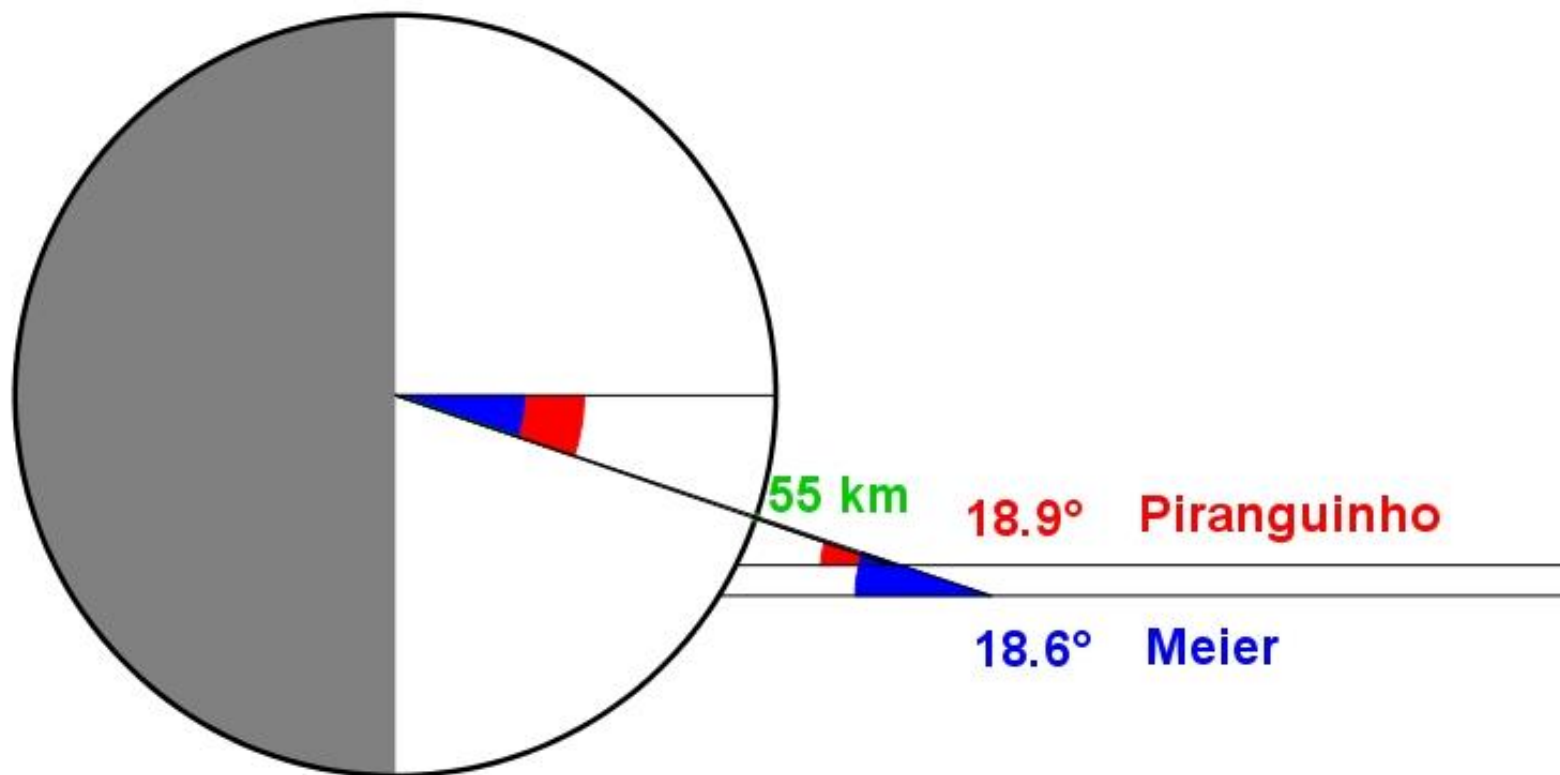


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Escola Municipal Bento Ribeiro, Méier	-22.904	-43.280

Date	Gnomon	Shadow	Angle
11 March	110 cm	-37 cm	-18.6 °

11 March 2017 (Piranguinho-BRAZIL) Latitude: -22.411°

11 March 2017 (Meier-BRAZIL) Latitude: -22.904°




$$\text{circumference} = \frac{360^\circ \times 55 \text{ km}}{18.9^\circ - 18.6^\circ} = -66000 \text{ km}$$



Sfax, Tunisia

March 2017

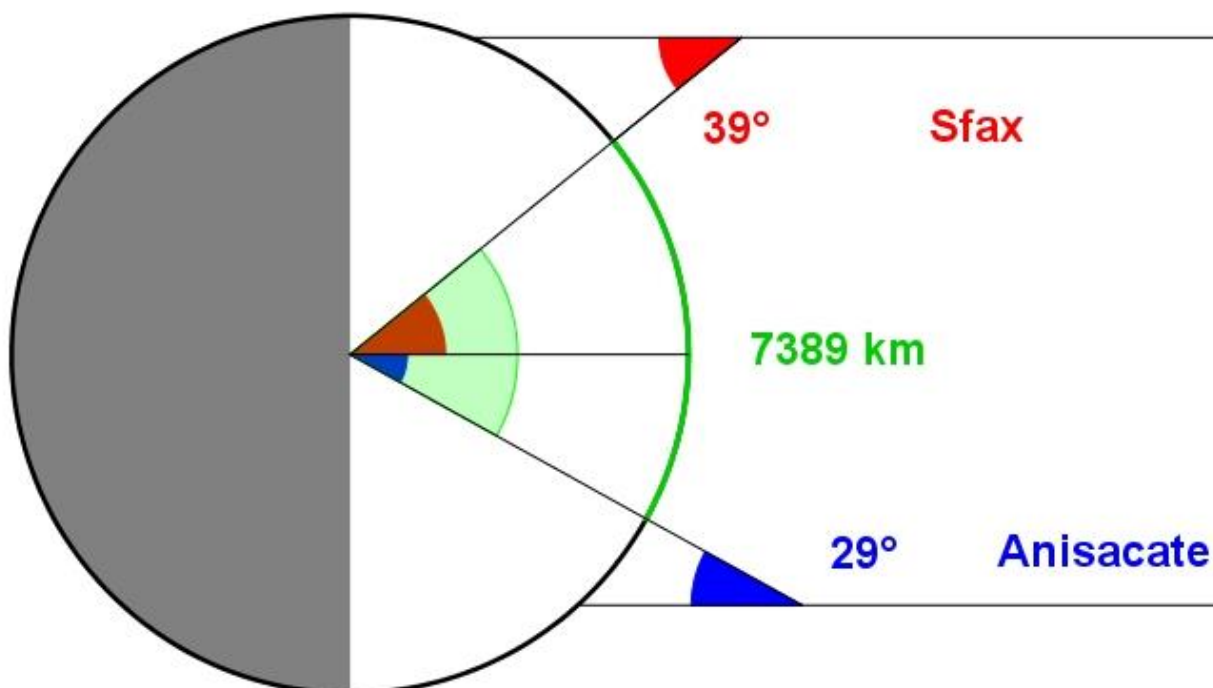


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Sfax	Tunisia	école de Sakiét Eddayer	34.789	10.780

Date	Gnomon	Shadow	Angle
06 March	100 cm	89 cm	41.7 °
13 March	100 cm	81 cm	39.0 °

13 March 2017 (Sfax-TUNISIA) Latitude: 34.789 °

13 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 7389 \text{ km}}{360} = 39118 \text{ km}$$



Skopje, FYROM

March 2017

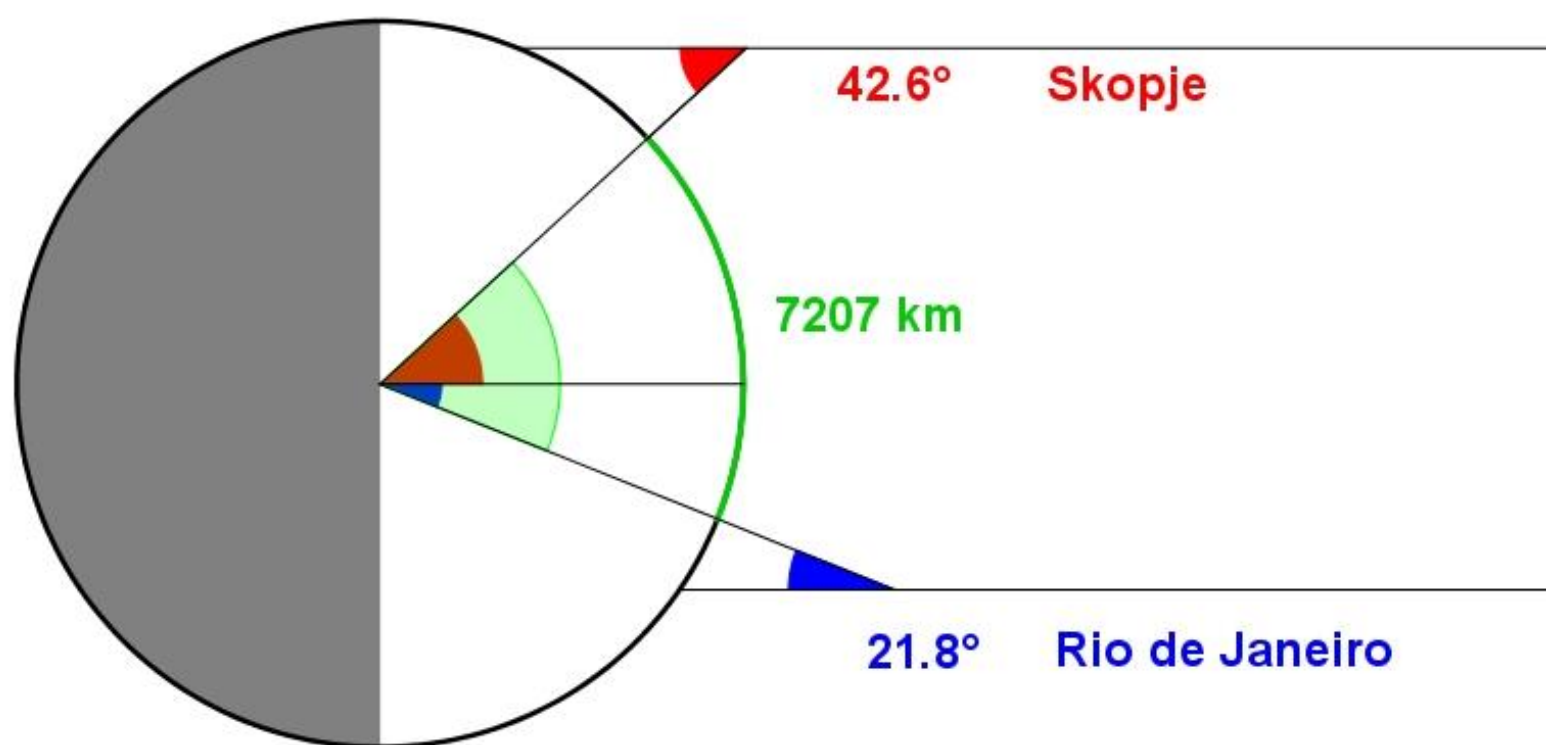


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Skopje	FYROM	OOU "Nevena Georgieva - Dunja"	41.980	21.445

Date	Gnomon	Shadow	Angle
03 March	95.5 cm	117.4 cm	50.9 °
06 March	95.5 cm	117.5 cm	50.9 °
22 March	93.3 cm	85.8 cm	42.6 °
23 March	93.3 cm	160 cm	59.8 °

22 March 2017 (Skopje-FYROM) Latitude: 41.98 °

22 March 2017 (Rio de Janeiro-BRAZIL) Latitude: -22.89 °




$$\text{circumference} = \frac{360^\circ \times 7207 \text{ km}}{42.6^\circ + 21.8^\circ} = 40288 \text{ km}$$



Úbeda, Spain

March 2017

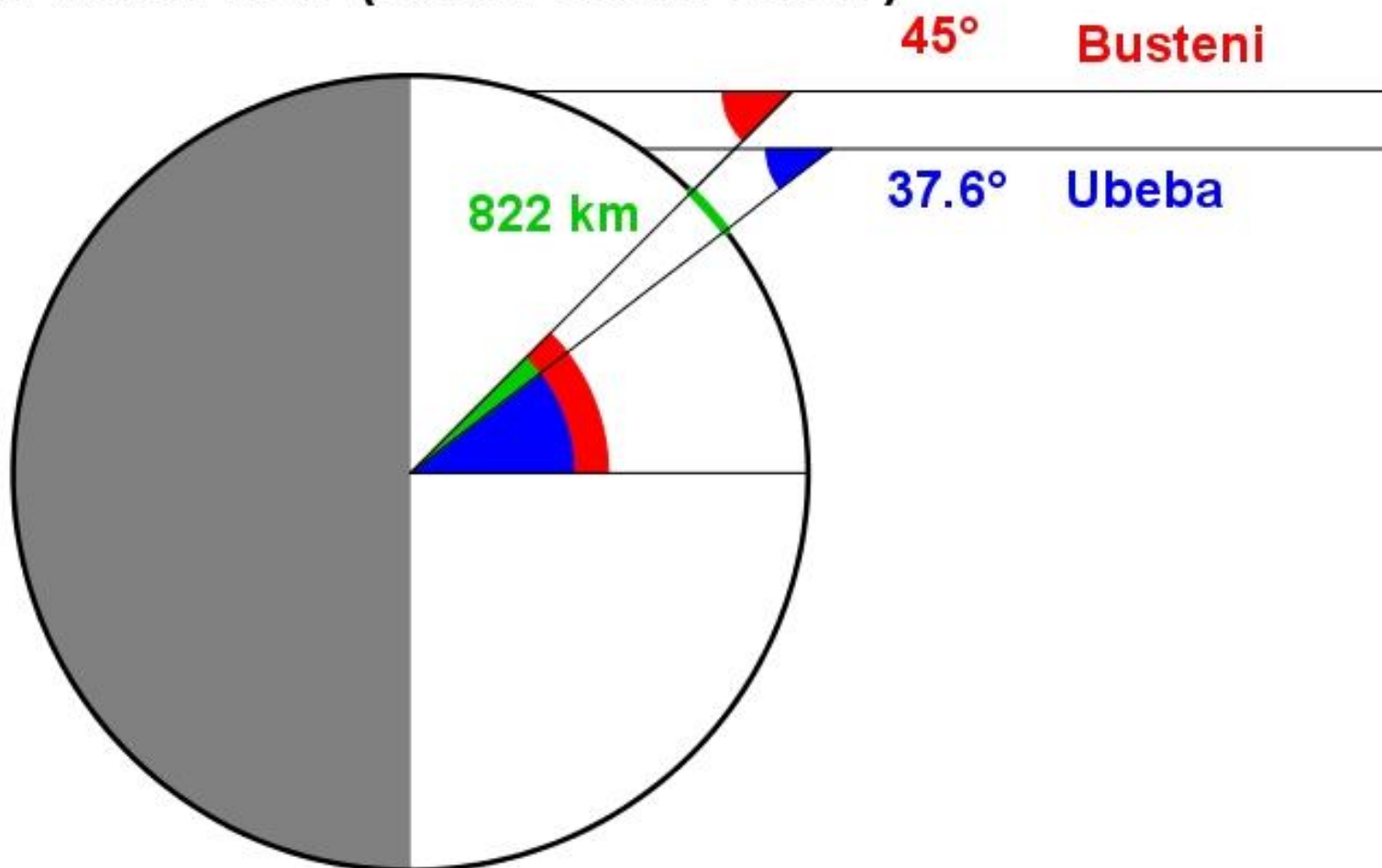


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Úbeda	Spain	Colegio Salesiano Santo Domingo Savio	38.017	-3.367

Date	Gnomon	Shadow	Angle
21 March	114 cm	87.9 cm	37.6 °

21 March 2017 (Busteni-ROMANIA 45.416)

21 March 2017 (Ubeba-SPAIN 38.017)




$$\text{circumference} = \frac{360^\circ \times 822 \text{ km}}{45^\circ - 37.6^\circ} = 39989 \text{ km}$$



Vigo, Spain

March 2017

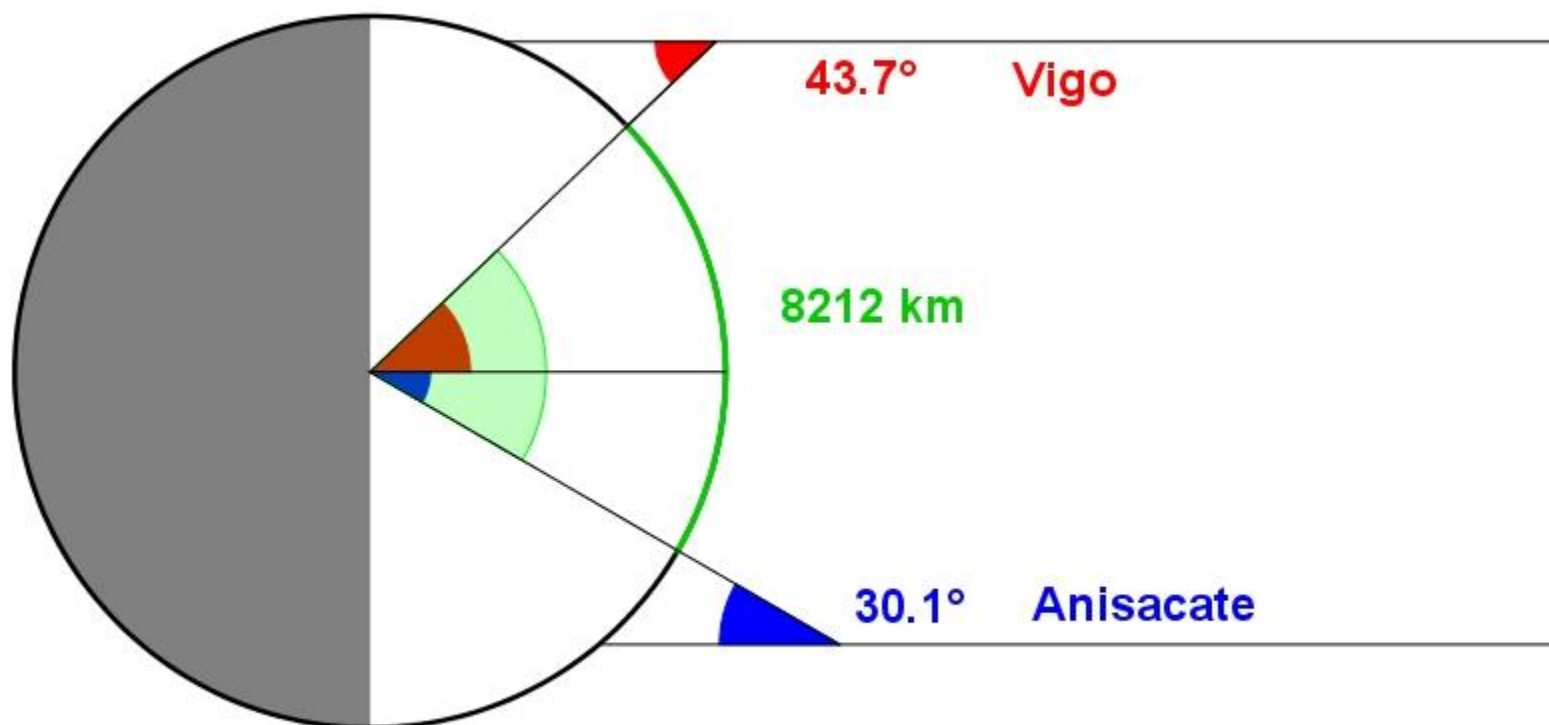


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Vigo	Spain	IES de Beade	42.201	-8.716

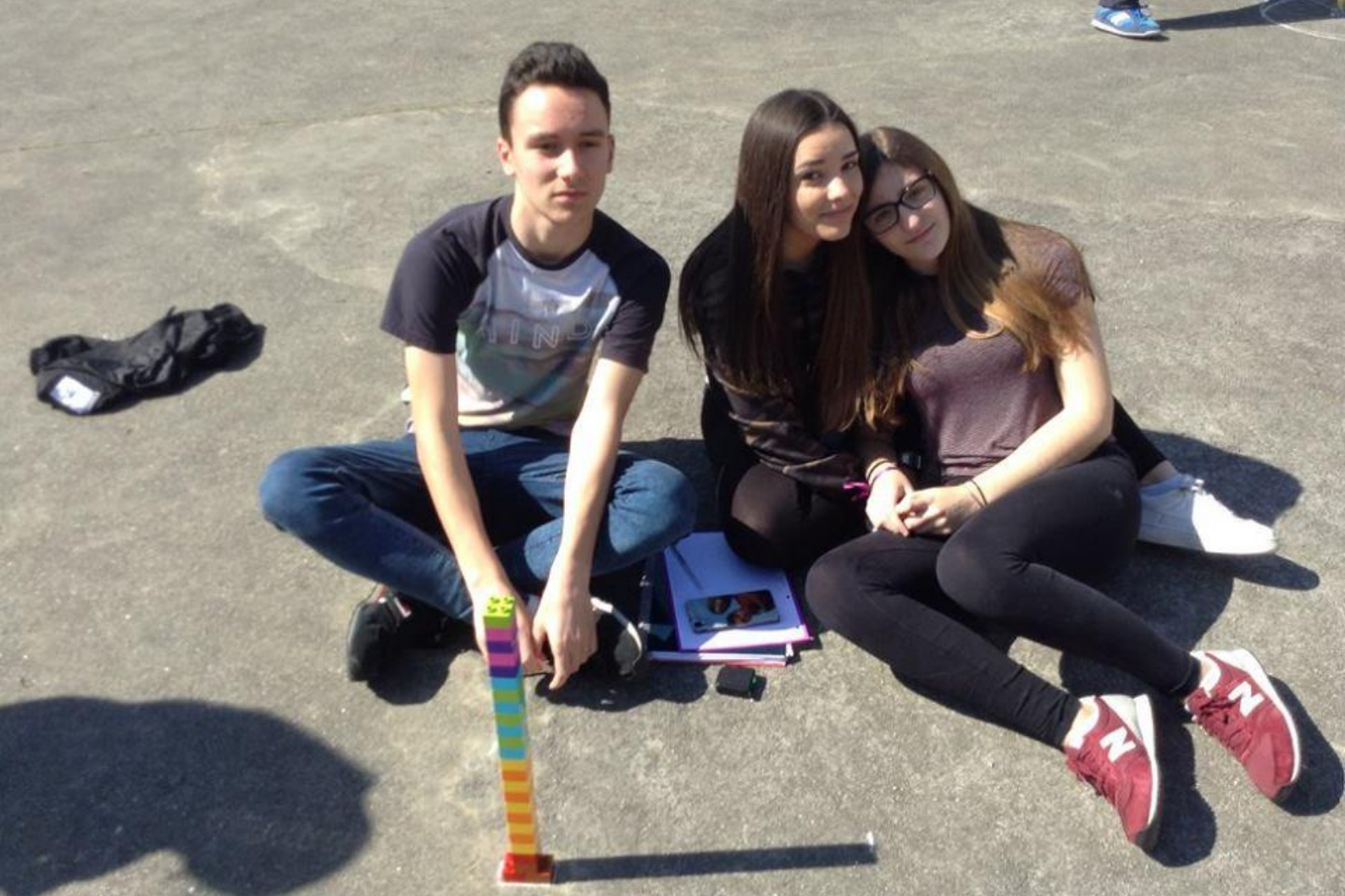
Date	Gnomon	Shadow	Angle
13 March	122 cm	120 cm	44.5 °
16 March	100 cm	96.5 cm	43.7 °
21 March	99 cm	86 cm	41 °

16 March 2017 (Vigo-SPAIN) Latitude: 42.201 °

16 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 8212 \text{ km}}{43.7^\circ + 30.1^\circ} = 40059 \text{ km}$$



Yamunanagar cv Raman, India

March 2017

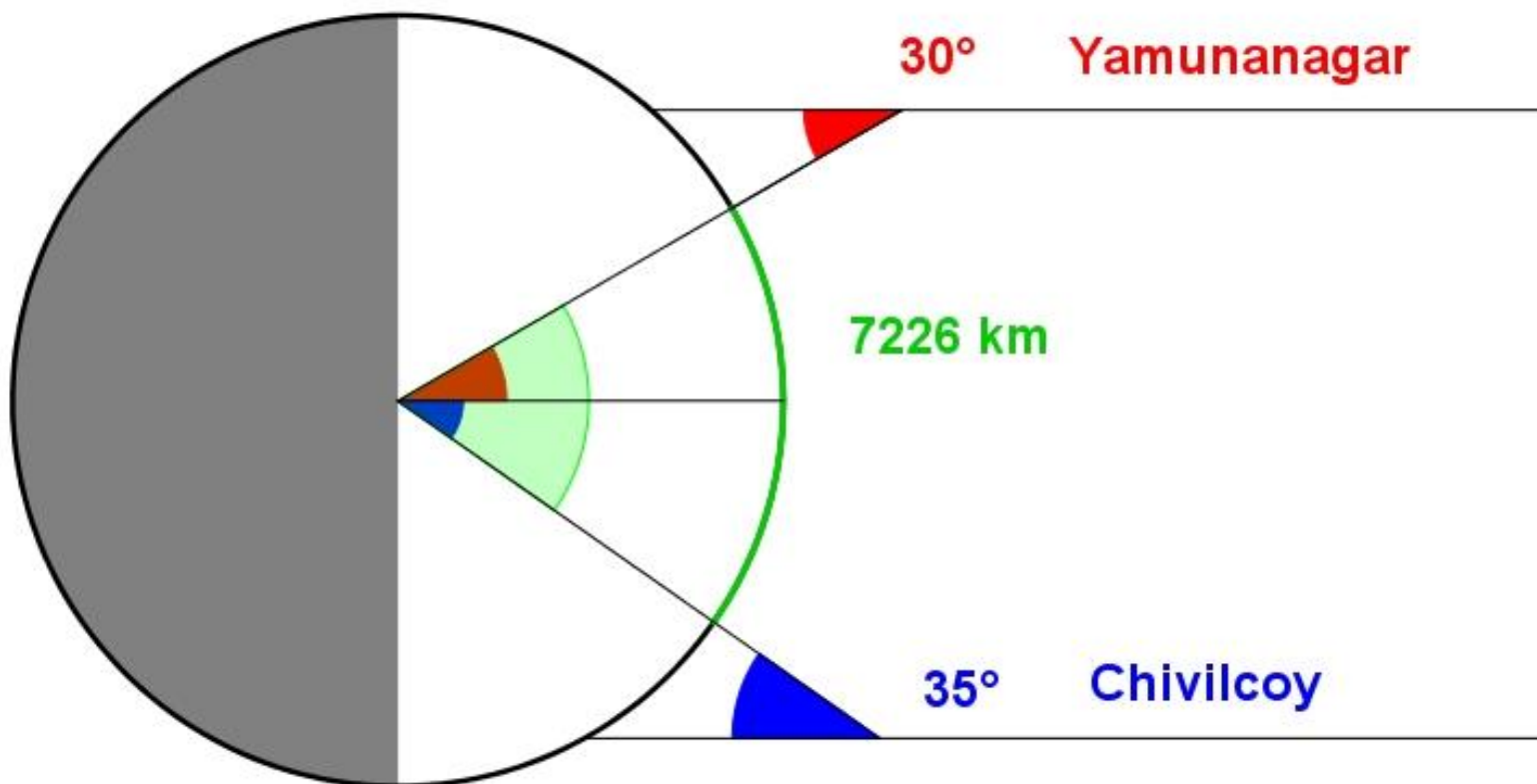


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Yamunanagar	India	C V Raman Science Club	30.117	77.250

Date	Gnomon	Shadow	Angle
20 March	59.0 cm	34.1 cm	30.0 °

20 March 2017 (Yamunanagar-INDIA) Latitude: 30.133 °

20 March 2017 (Chivilcoy-ARGENTINA) Latitude: -34.911 °




$$\text{circumference} = \frac{360^\circ \times 7226 \text{ km}}{30^\circ + 35^\circ} = 40021 \text{ km}$$



Zagreb, Croatia

March 2017

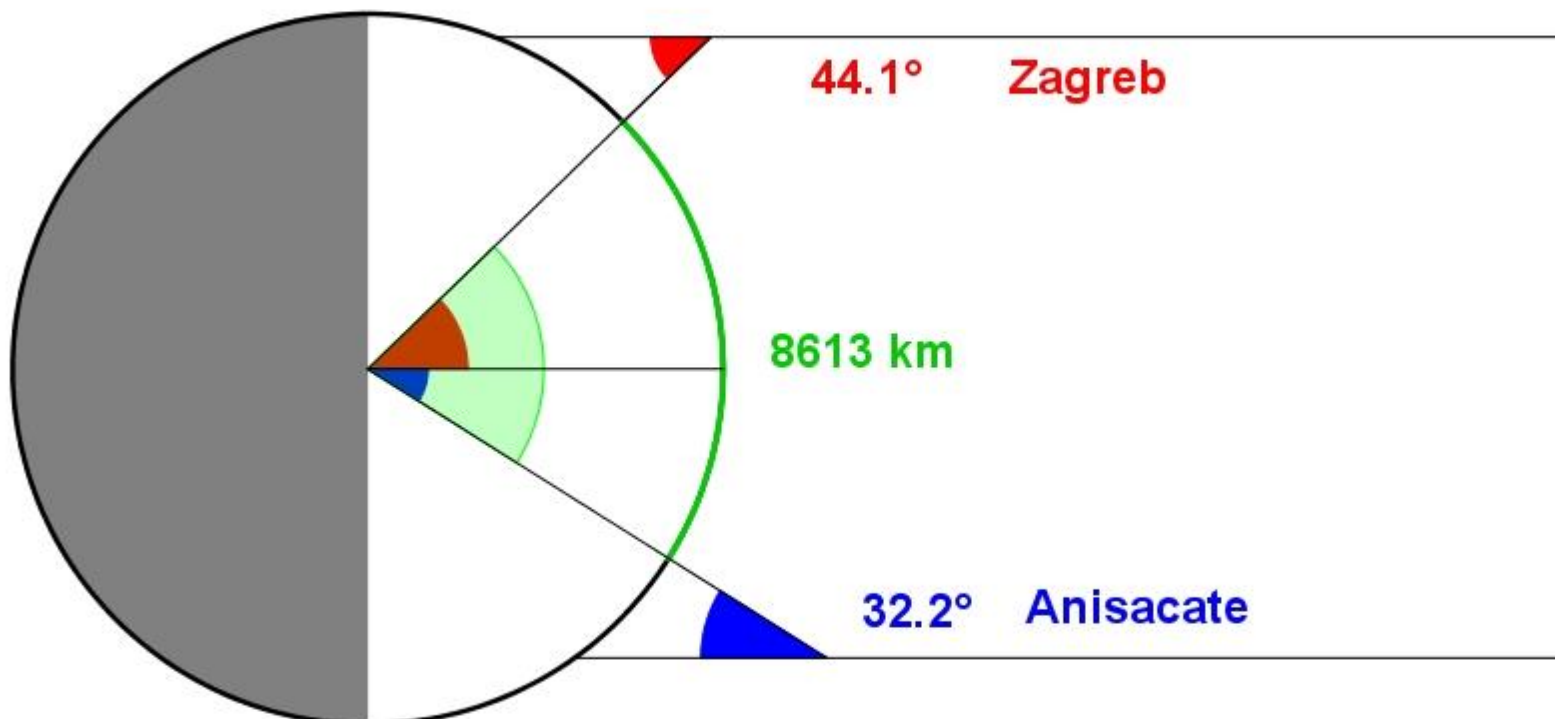


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Zagreb	Croatia	Elementary School Petar Zrinski	45.812	15.959

Date	Gnomon	Shadow	Angle
21 March	102 cm	99 cm	44.1 °

21 March 2017 (Zagreb-CROATIA) Latitude: 45.812 °

21 March 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 8613 \text{ km}}{44.1^\circ + 32.2^\circ} = 40638 \text{ km}$$

