

	Country	School	Latitude (+N/-S) decimal(°)	Longitude (+E/-W) decimal(°)	Date	Gnomon height [cm]	Shadow length [cm]	Angle (°)
Garmisch	Germany	St.-Irmengard-Gymnasium	47.493	11.102	01/03/2021	21.0	30.0	55.0
Athens	Greece	Experimental School Agion Anargyron	38.027	23.726	01/03/2021	28.0	30.1	47.1
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	02/03/2021	100.0	124.0	51.1
Dorohoi	Romania	Grigore Ghica National College	47.953	26.394	02/03/2021	30.0	40.0	53.1
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	02/03/2021	43.6	-23.2	-28.0
Garmisch	Germany	St.-Irmengard-Gymnasium	47.493	11.102	02/03/2021	12.5	17.5	54.5
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	02/03/2021	92.0	120.0	52.5
Dorohoi	Romania	Grigore Ghica National College	47.953	26.394	03/03/2021	14.5	20.0	54.1
Pogana	Romania	Scoala Gimnaziala Nr.1 Pogana	46.313	27.575	03/03/2021	20.0	26.5	53.0
Merlara	Italy	D. Alighieri lower secondary school	45.166	11.445	03/03/2021	100.0	128.0	52.0
Athens	Greece	Experimental School Agion	38.027	23.726	03/03/2021	14.2	15.0	46.6
Guarne	Colombia	Grupo Astrofánaticos	6.274	-75.447	03/03/2021	10.4	2.4	13.0
Busteni	Romania	Scoala Gimnaziala Sanatorila	45.416	25.535	04/03/2021	78.8	100.0	51.8
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	04/03/2021	100.0	120.4	50.3
Ilion	Greece	11th Junior High School of Ilion	38.033	23.697	04/03/2021	15.5	15.0	44.1
Athens	Greece	Experimental School Agion	38.027	23.726	04/03/2021	24.5	24.3	44.8
Andritsaina	Greece	Gymnasio Andritsainas	37.484	21.909	04/03/2021	39.0	37.0	43.5
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	05/03/2021	27.2	34.0	51.3
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	05/03/2021	100.0	118.9	49.9
Ilion	Greece	11th Junior High School of Ilion	38.033	23.697	05/03/2021	15.5	15.2	44.4
Athens	Greece	Experimental School Agion Anargyron	38.027	23.726	05/03/2021	18.0	17.6	44.4
Alta Gracia	Argentina	Fundacion Caminos de Anisacate	-31.656	-64.414	05/03/2021	17.5	-8.3	-25.4
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	05/03/2021	41.0	-23.2	-29.5
Garmisch	Germany	St.-Irmengard-Gymnasium	47.493	11.102	06/03/2021	13.5	18.0	53.1
Ilion	Greece	11th Junior High School of Ilion	38.033	23.697	06/03/2021	21.0	21.6	45.8
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	06/03/2021	18.0	-10.2	-29.5
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	07/03/2021	17.9	-10.3	-29.9
Pogana	Romania	Scoala Gimnazială Nr 1 Pogana	46.313	27.575	08/03/2021	20.0	25.0	51.3
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	08/03/2020	30.0	36.0	50.2
Merlara	Italy	D. Alighieri lower secondary school	45.166	11.445	08/03/2021	18.8	21.0	48.2
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	08/03/2021	12.5	14.3	48.8
Istanbul	Turkey	Zubeyde Hanım Secondary School	41.024	29.088	08/03/2021	20.0	23.0	49.0
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	08/03/2020	51.5	-30.1	-30.3
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	09/03/2021	30	35.5	49.8
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	09/03/2021	100.0	112.0	48.2
Istanbul	Turkey	Zubeyde Hanım Secondary School	41.024	29.088	09/03/2021	17.0	16.0	43.3
Athens	Greece	Experimental School Agion Anargyron	38.027	23.726	09/03/2021	17.5	16.0	42.4
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	09/03/2021	100.0	74.4	36.6
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	10/03/2021	30.0	35.0	49.4
Merlara	Italy	D. Alighieri lower secondary school	45.166	11.445	10/03/2021	39.0	42.0	47.1
Ilion	Greece	11th Junior High School of Ilion	38.033	23.697	10/03/2021	16.1	14.5	42.0
Athens	Greece	Experimental School Agion Anargyron	38.027	23.726	10/03/2021	12.0	10.8	42.0
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	10/03/2021	27.0	19.9	36.4
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	10/03/2021	10.0	-2.0	-11.3
Alta Gracia	Argentina	Fundacion Caminos de Anisacate	-31.656	-64.414	10/03/2021	17.5	-9.1	-27.5
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	10/03/2020	54.7	-33.0	-36.4
Garmisch	Germany	St.-Irmengard-Gymnasium	47.493	11.102	12/03/2021	19.8	24.3	50.8
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	12/03/2021	63.0	71.4	48.6
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	12/03/2021	100.0	108.7	47.4
Athens	Greece	Experimental School Agion	38.027	23.726	12/03/2021	23.8	20.8	41.2
Meeru island	Maldives		4.455	73.708	12/03/2020	130.0	17.4	7.6
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	12/03/2021	20.0	-10.0	-26.6
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	12/03/2020	40.8	-25.3	-31.8
Garmisch	Germany	St.-Irmengard-Gymnasium	47.493	11.102	13/03/2021	14.0	16.8	50.2
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	13/03/2021	71.5	80.0	48.2
Ilion	Greece	11th Junior High School of Ilion	38.033	23.697	13/03/2021	18.0	15.5	40.7
Athens	Greece	Experimental School Agion	38.027	23.726	13/03/2021	22.0	19.0	40.8
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	13/03/2021	24.5	17.3	35.2
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	14/03/2021	12.5	13.2	46.6
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	14/03/2021	27.0	18.8	34.8
Athens	Greece	Experimental School Agion	38.027	23.726	15/03/2021	28.0	25.0	41.8
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	15/03/2021	24.5	16.7	34.3
Meeru island	Maldives		4.455	73.708	15/03/2021	85.0	9.6	6.4
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	16/03/2021	100.0	103.4	46.0

Athens	Greece	Experimental School Agion	38.027	23.726	16/03/2021	17.5	14.6	39.8
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	16/03/2021	32.5	22.0	34.1
Guarne	Colombia	Grupo Astrofánaticos	6.274	-75.447	16/03/2021	10.4	1.4	7.7
Alta Gracia	Argentina	Fundacion Caminos de Anisacate	-31.656	-64.414	16/03/2021	17.5	-10.0	-29.7
Athens	Greece	Experimental School Agion Anargyron	38.027	23.726	17/03/2021	27.5	22.5	39.3
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	17/03/2021	14.3	9.5	33.6
Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317	17/03/2021	20.0	-7.5	-20.6
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	17/03/2021	6.0	-2.0	-18.4
Aigio	Greece	1st High School of Aigio	38.252	22.079	18/03/2021	46.5	36.0	37.7
Athens	Greece	Experimental School Agion	38.027	23.726	18/03/2021	28.0	23.6	40.1
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	18/03/2021	13.5	14.0	46.0
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	18/03/2021	24.0	15.7	33.2
Guarne	Colombia	Grupo Astrofánaticos	6.274	-75.447	18/03/2021	17.2	2.0	6.6
Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317	18/03/2021	20.0	-7.5	-20.6
Istanbul	Turkey	Zubeyde Hanım Secondary School	41.024	29.088	18/03/2021	17	15.5	42.4
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	19/03/2021	100	98.5	44.6
Ilion	Greece	11th Junior High School of Ilion	38.033	23.697	19/03/2021	10.0	7.4	36.5
Athens	Greece	Experimental School Agion	38.027	23.726	19/03/2021	28.0	23.1	39.5
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	19/03/2021	20	12.9	32.8
Biên Hòa	Vietnam	Quyen High School	10.955	106.826	19/03/2021	50	9.5	10.8
Medellin	Colombia	Grupo Astrofánaticos	6.231	-75.591	19/03/2021	17	2.5	8.4
Cali	Colombia	Grupo Astrofánaticos	3.421	-76.522	19/03/2021	27.0	1.0	2.1
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	19/03/2021	39.4	-27.5	-34.9
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	20/03/2021	63.2	64	45.4
Margineni	Romania	Gh. Popescu School	44.533	24.554	20/03/2021	100.0	99.3	44.8
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	20/03/2021	12.5	12.2	44.3
Ilion	Greece	11th Junior High School of Ilion	38.033	23.697	20/03/2021	33.0	26.0	38.2
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	20/03/2021	13.5	8.6	32.5
Mumbai	India	Atomic Energy Central School - 6	19.037	72.912	20/03/2021	18.5	6	18.0
Hồ Chí Minh City	Vietnam	Phú Nhuận High School	10.809	106.676	20/03/2021	50.0	11.0	12.4
Hồ Chí Minh City	Vietnam	Nguyen Trai High School	10.760	106.712	20/03/2021	71.1	11.0	8.8
Medellin	Colombia	Grupo Astrofánaticos	6.231	-75.591	20/03/2021	7.5	0.9	6.8
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	20/03/2021	12.0	-5.0	-22.6
Alta Gracia	Argentina	Fundacion Caminos de Anisacate	-31.656	-64.414	20/03/2021	17.5	-10.7	-31.4
Pelotas	Brazil	Universidade Federal de Pelotas	-31.775	-52.342	20/03/2021	22.0	-11.6	-27.8
Dorohoi	Romania	National College Grigore Ghica	47.953	26.934	21/03/2021	13.5	14.0	46.0
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	21/03/2021	40.0	40.0	45.0
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	21/03/2021	16.2	16.6	45.7
Aigio	Greece	1st High School of Aigio	38.252	22.079	21/03/2021	17.0	13.0	37.4
Athens	Greece	Experimental School Agion	38.027	23.726	21/03/2021	23.0	17.7	37.6
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	21/03/2021	22.0	13.7	31.9
Bayamón	Puerto Rico	AECM Caribbean University	18.383	-66.168	21/03/2021	25	8.5	18.8
Hồ Chí Minh City	Vietnam	Nguyen Trai High School	10.760	106.712	21/03/2021	102	19.5	10.8
Santarém	Brazil	Santarém Adventist College	-2.439	-54.699	21/03/2021	8	-2	-14
Patos de Minas	Brazil	Patos de Minas Observatory	-18.580	-46.489	21/03/2021	100	-35	-19.3
Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317	21/03/2021	7	-2	-15.9
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	21/03/2021	54	-28	-27.4
Alta Gracia	Argentina	Fundacion Caminos de Anisacate	-31.656	-64.414	21/03/2021	17.5	-10.9	-31.9
Chivilcoy SCBG	Argentina	Scout Cure Brochero Group	-34.883	-60.017	21/03/2021	66	-47	-35.5
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	21/03/2021	12	-8.5	-35.3
Merlara	Italy	D.Alighieri Lower secondary School	45.166	11.445	22/03/2021	38.5	38	44.6
Ilion	Greece	11th Junior High School of Ilion	38.033	23.697	22/03/2021	15.5	11.8	37.3
Athens	Greece	Experimental School Agion	38.027	23.726	22/03/2021	19.5	14.8	37.2
Bayamón	Puerto Rico	AECM Caribbean University	18.383	-66.168	22/03/2021	25	8	17.7
Santarém	Brazil	Santarém Adventist College	-2.439	-54.699	22/03/2021	13.5	-0.9	-3.8
Patos de Minas	Brazil	Patos de Minas Observatory	-18.580	-46.489	22/03/2021	100	-36.8	-20.2
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	22/03/2021	54	-16	-16.5
Pelotas	Brazil	Universidade Federal de Pelotas	-31.775	-52.342	22/03/2021	22.5	-14.2	-32.3
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	22/03/2021	12	-8.6	-35.6
Pogana	Romania	Scoala Gimnazială Nr 1 Pogana	46.313	27.575	23/03/2021	20	20.6	45.8
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	23/03/2021	50.0	48.5	44.1
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	23/03/2021	100.0	93.3	43.0
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	23/03/2021	22.0	13.0	30.6
Bayamón	Puerto Rico	AECM Caribbean University	18.383	-66.168	23/03/2021	25	6	13.5
Alta Gracia	Argentina	Fundacion Caminos de Anisacate	-31.656	-64.414	23/03/2021	17.5	-11.1	-32.4
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	23/03/2021	12	-8.8	-36.3

Athens	Greece	Experimental School Agion	38.027	23.726	24/03/2021	19	16	40.1
Bayamón	Puerto Rico	AECM Caribbean University	18.383	-66.168	24/03/2021	25.0	7.5	16.7
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	24/03/2021	34.0	-8.0	-13.2
Ilion	Greece	11th Junior High School of Ilion	38.033	23.697	25/03/2021	27	19.5	35.8
Bayamón	Puerto Rico	AECM Caribbean University	18.383	-66.168	25/03/2021	25	8.3	18.4
Santarém	Brazil	Santarém Adventist College	-2.439	-54.699	25/03/2021	9	-1.4	-8.8
Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317	25/03/2021	20.0	-8.0	-21.8
Garmisch	Germany	St.-Irmengard-Gymnasium	47.493	11.102	26/03/2021	18.0	18.0	45.0
Pogana	Romania	Scoala Gimnazială Nr 1 Pogana	46.313	27.575	26/03/2021	20.0	19.5	44.3
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	26/03/2021	50	46.5	42.9
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	26/03/2021	100.0	90.0	42.0
Athens	Greece	Experimental School Agion	38.027	23.726	26/03/2021	28	21.2	37.1
Bizerte	Tunisia	Ecole Primaire Raouabi	37.284	9.868	26/03/2021	23.0	15.8	34.5
Bayamón	Puerto Rico	AECM Caribbean University	18.383	-66.168	26/03/2021	25	8.5	18.8
Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317	26/03/2021	21	-7	-18.4
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	26/03/2021	54	-26	-25.7
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	27/03/2021	65.40	60	42.5
Aigio	Greece	1st High School of Aigio	38.252	22.079	27/03/2021	40	27	34
Ilion	Greece	11th Junior High School of Ilion	38.033	23.697	27/03/2021	28.4	19.6	34.6
Athens	Greece	Experimental School Agion	38.027	23.726	27/03/2021	20.00	13.4	33.8
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	27/03/2021	24.5	13.9	29.6
Santarém	Brazil	Santarém Adventist College	-2.439	-54.699	27/03/2021	9	-0.8	-5.1
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	27/03/2021	54.0	-28.0	-27.4
Alta Gracia	Argentina	Fundacion Caminos de Anisacate	-31.656	-64.414	27/03/2021	17.5	-11.9	-34.2
Athens	Greece	Experimental School Agion	38.027	23.726	28/03/2021	23	18.5	38.8
Bizerte	Tunisia	Ecole Primaire Raouabi	37.284	9.868	28/03/2021	15.5	10	32.8
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	28/03/2021	26	14.5	29.1
Santarém	Brazil	Santarém Adventist College	-2.439	-54.699	28/03/2021	9	-1.5	-9.5
Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317	28/03/2021	10	-4	-21.8
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	28/03/2021	20	-8	-21.8
Alta Gracia	Argentina	Fundacion Caminos de Anisacate	-31.656	-64.414	28/03/2021	17.5	-12.1	-34.7
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	29/03/2021	50	44.7	41.8
Athens	Greece	Experimental School Agion	38.027	23.726	29/03/2021	20.5	14.2	34.7
Bizerte	Tunisia	Ecole Primaire Raouabi	37.284	9.868	29/03/2021	17	11	32.9
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	29/03/2021	49.5	27.2	28.8
Bayamón	Puerto Rico	AECM Caribbean University	18.383	-66.168	29/03/2021	25	9	19.8
Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317	29/03/2021	10	-4	-21.8
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	29/03/2021	54	-32	-30.7
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	29/03/2021	12	-9.5	-38.4
Garmisch	Germany	St.-Irmengard-Gymnasium	47.493	11.102	30/03/2021	14	13.2	43.3
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	30/03/2021	50	44	41.3
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237	30/03/2021	100	85	40.4
Athens	Greece	Experimental School Agion	38.027	23.726	30/03/2021	20.2	13.6	34
Bizerte	Tunisia	Ecole Primaire Raouabi	37.284	9.868	30/03/2021	15.5	10	32.8
Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317	30/03/2021	10	-4	-21.8
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	30/03/2021	54	-30	-29.1
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	30/03/2021	12	-9.7	-38.9
Irbid	Jordan	Mashar'eh Military School	32.405	35.588	31/03/2021	47.4	22.3	25.2
Garmisch-	Germany	St.-Irmengard-Gymnasium	47.493	11.102	31/03/2021	10	9.4	43.2
Busteni	Romania	Scoala Gimnaziala Sanatoriala	45.416	25.535	31/03/2021	50	43.4	41
Alta Gracia	Argentina	Fundacion Caminos de Anisacate	-31.656	-64.414	31/03/2021	17.5	-12.6	-35.8
Bizerte	Tunisia	Ecole Primaire Raouabi	37.284	9.868	31/03/2021	32.5	21	32.9
Chivilcoy	Argentina	Parque Cielos del Sur	-34.911	-60.014	31/03/2021	12	-9.8	-39.2
Méier	Brazil	Escola Municipal Bento Ribeiro	-22.904	-43.280	31/03/2021	54	-22	-22.2
Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317	31/03/2021	10	-4	-21.8