

SŁOŃCE

Data 2021	0 ^h UT			Data 2021	0 ^h UT					
	X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀		X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀			
I	1	0.17912	-0.88705	-0.38453	II	16	0.83081	-0.49042	-0.21260	
	2	0.19628	-0.88398	-0.38320		17	0.84027	-0.47701	-0.20679	
	3	0.21338	-0.88064	-0.38175		18	0.84947	-0.46345	-0.20091	
	4	0.23042	-0.87702	-0.38019		19	0.85841	-0.44975	-0.19497	
	5	0.24739	-0.87314	-0.37850		20	0.86708	-0.43591	-0.18897	
	6	0.26428	-0.86898	-0.37670		21	0.87549	-0.42194	-0.18291	
	7	0.28109	-0.86454	-0.37478		22	0.88363	-0.40784	-0.17680	
	8	0.29782	-0.85984	-0.37274		23	0.89150	-0.39362	-0.17064	
	9	0.31445	-0.85487	-0.37058		24	0.89910	-0.37928	-0.16442	
	10	0.33099	-0.84964	-0.36832		25	0.90642	-0.36483	-0.15815	
	11	0.34743	-0.84413	-0.36593		26	0.91347	-0.35026	-0.15184	
	12	0.36375	-0.83837	-0.36343		27	0.92024	-0.33559	-0.14548	
	13	0.37997	-0.83234	-0.36082		28	0.92674	-0.32082	-0.13907	
	14	0.39606	-0.82605	-0.35809		III	1	0.93295	-0.30595	-0.13263
	15	0.41204	-0.81950	-0.35525			2	0.93888	-0.29099	-0.12614
	16	0.42788	-0.81269	-0.35230			3	0.94452	-0.27594	-0.11962
	17	0.44359	-0.80564	-0.34925			4	0.94988	-0.26080	-0.11306
	18	0.45916	-0.79833	-0.34608			5	0.95496	-0.24558	-0.10646
	19	0.47458	-0.79077	-0.34280			6	0.95974	-0.23029	-0.09983
	20	0.48985	-0.78297	-0.33942			7	0.96424	-0.21493	-0.09317
	21	0.50498	-0.77493	-0.33593			8	0.96844	-0.19950	-0.08649
	22	0.51994	-0.76665	-0.33234			9	0.97235	-0.18400	-0.07977
	23	0.53474	-0.75812	-0.32865			10	0.97596	-0.16845	-0.07303
	24	0.54938	-0.74937	-0.32485			11	0.97928	-0.15285	-0.06627
	25	0.56384	-0.74038	-0.32096			12	0.98230	-0.13720	-0.05948
	26	0.57813	-0.73117	-0.31696			13	0.98503	-0.12151	-0.05268
	27	0.59224	-0.72173	-0.31287		14	0.98745	-0.10579	-0.04586	
	28	0.60616	-0.71207	-0.30868		15	0.98958	-0.09003	-0.03903	
	29	0.61990	-0.70219	-0.30439	16	0.99141	-0.07424	-0.03219		
	30	0.63345	-0.69209	-0.30002	17	0.99294	-0.05843	-0.02534		
	31	0.64680	-0.68178	-0.29555	18	0.99416	-0.04261	-0.01847		
II	1	0.65996	-0.67125	-0.29099	19	0.99509	-0.02677	-0.01161		
	2	0.67291	-0.66053	-0.28633	20	0.99572	-0.01093	-0.00474		
	3	0.68566	-0.64959	-0.28160	21	0.99605	0.00492	0.00213		
	4	0.69819	-0.63846	-0.27677	22	0.99609	0.02076	0.00900		
	5	0.71052	-0.62712	-0.27186	23	0.99582	0.03659	0.01586		
	6	0.72262	-0.61559	-0.26686	24	0.99526	0.05242	0.02272		
	7	0.73450	-0.60388	-0.26178	25	0.99440	0.06822	0.02957		
	8	0.74615	-0.59197	-0.25662	26	0.99325	0.08400	0.03642		
	9	0.75758	-0.57988	-0.25138	27	0.99180	0.09976	0.04325		
	10	0.76877	-0.56760	-0.24606	28	0.99005	0.11549	0.05006		
	11	0.77972	-0.55516	-0.24066	29	0.98802	0.13118	0.05687		
	12	0.79044	-0.54254	-0.23519	30	0.98569	0.14684	0.06365		
	13	0.80090	-0.52975	-0.22965	31	0.98307	0.16245	0.07042		
	14	0.81112	-0.51680	-0.22404	IV	1	0.98016	0.17802	0.07717	
	15	0.82109	-0.50369	-0.21835		2	0.97696	0.19353	0.08389	

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IV	3	0.97347	0.20899	0.09059	V	19	0.53668	0.78685	0.34110
	4	0.96970	0.22439	0.09727		20	0.52230	0.79516	0.34470
	5	0.96563	0.23972	0.10391		21	0.50777	0.80325	0.34821
	6	0.96128	0.25498	0.11053		22	0.49310	0.81110	0.35161
	7	0.95665	0.27017	0.11711		23	0.47828	0.81873	0.35492
	8	0.95173	0.28528	0.12366		24	0.46334	0.82612	0.35812
	9	0.94653	0.30031	0.13018		25	0.44826	0.83328	0.36122
	10	0.94105	0.31525	0.13665		26	0.43305	0.84020	0.36423
	11	0.93529	0.33009	0.14309		27	0.41773	0.84689	0.36712
	12	0.92926	0.34484	0.14948		28	0.40228	0.85333	0.36992
	13	0.92295	0.35949	0.15583		29	0.38672	0.85954	0.37260
	14	0.91637	0.37403	0.16214		30	0.37105	0.86550	0.37519
	15	0.90952	0.38846	0.16839		31	0.35528	0.87122	0.37767
	16	0.90240	0.40277	0.17460	VI	1	0.33940	0.87669	0.38004
	17	0.89501	0.41697	0.18075		2	0.32342	0.88191	0.38230
	18	0.88737	0.43104	0.18685		3	0.30735	0.88689	0.38446
	19	0.87946	0.44499	0.19290		4	0.29120	0.89161	0.38650
	20	0.87130	0.45880	0.19889		5	0.27495	0.89608	0.38844
	21	0.86289	0.47248	0.20482		6	0.25863	0.90029	0.39027
	22	0.85422	0.48602	0.21069		7	0.24224	0.90425	0.39199
	23	0.84531	0.49941	0.21649		8	0.22577	0.90795	0.39359
	24	0.83615	0.51267	0.22224		9	0.20924	0.91140	0.39509
	25	0.82675	0.52577	0.22792		10	0.19265	0.91458	0.39647
	26	0.81711	0.53872	0.23353		11	0.17601	0.91751	0.39774
	27	0.80724	0.55151	0.23908		12	0.15931	0.92017	0.39889
	28	0.79713	0.56414	0.24455		13	0.14257	0.92258	0.39994
	29	0.78679	0.57662	0.24996		14	0.12579	0.92472	0.40086
	30	0.77623	0.58892	0.25529		15	0.10898	0.92660	0.40168
V	1	0.76544	0.60106	0.26055		16	0.09214	0.92821	0.40238
	2	0.75443	0.61302	0.26574		17	0.07527	0.92957	0.40297
	3	0.74321	0.62481	0.27085		18	0.05838	0.93066	0.40344
	4	0.73176	0.63642	0.27588		19	0.04148	0.93149	0.40380
	5	0.72011	0.64785	0.28084		20	0.02457	0.93205	0.40404
	6	0.70824	0.65909	0.28571		21	0.00765	0.93236	0.40418
	7	0.69617	0.67015	0.29050		22	-0.00927	0.93240	0.40419
	8	0.68390	0.68100	0.29521		23	-0.02619	0.93218	0.40410
	9	0.67143	0.69167	0.29983		24	-0.04309	0.93170	0.40389
	10	0.65876	0.70213	0.30437		25	-0.05999	0.93096	0.40357
	11	0.64590	0.71239	0.30882		26	-0.07687	0.92996	0.40313
	12	0.63286	0.72245	0.31317		27	-0.09372	0.92869	0.40258
	13	0.61963	0.73229	0.31744		28	-0.11055	0.92717	0.40192
	14	0.60623	0.74193	0.32162		29	-0.12736	0.92539	0.40115
	15	0.59265	0.75135	0.32571		30	-0.14412	0.92334	0.40026
	16	0.57890	0.76055	0.32970	VII	1	-0.16085	0.92104	0.39927
	17	0.56499	0.76954	0.33359		2	-0.17753	0.91848	0.39816
	18	0.55092	0.77830	0.33739		3	-0.19417	0.91566	0.39693

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VII	4	-0.21075	0.91258	0.39560	VIII	19	-0.83858	0.51988	0.22537		
	5	-0.22728	0.90924	0.39415		20	-0.84781	0.50678	0.21969		
	6	-0.24374	0.90565	0.39260		21	-0.85679	0.49355	0.21395		
	7	-0.26013	0.90180	0.39093		22	-0.86553	0.48017	0.20815		
	8	-0.27645	0.89769	0.38915		23	-0.87403	0.46666	0.20230		
	9	-0.29270	0.89333	0.38726		24	-0.88227	0.45302	0.19638		
	10	-0.30886	0.88872	0.38526		25	-0.89027	0.43925	0.19041		
	11	-0.32493	0.88385	0.38315		26	-0.89801	0.42535	0.18439		
	12	-0.34091	0.87874	0.38093		27	-0.90549	0.41132	0.17831		
	13	-0.35680	0.87338	0.37861		28	-0.91272	0.39718	0.17218		
	14	-0.37258	0.86777	0.37618		29	-0.91969	0.38293	0.16600		
	15	-0.38825	0.86191	0.37364		30	-0.92639	0.36856	0.15977		
	16	-0.40382	0.85582	0.37100		31	-0.93283	0.35409	0.15350		
	17	-0.41927	0.84948	0.36825		IX	1	-0.93899	0.33951	0.14718	
	18	-0.43460	0.84290	0.36540			2	-0.94489	0.32484	0.14082	
	19	-0.44980	0.83609	0.36244			3	-0.95052	0.31007	0.13442	
	20	-0.46488	0.82904	0.35939			4	-0.95587	0.29520	0.12798	
	21	-0.47983	0.82176	0.35623			5	-0.96095	0.28026	0.12150	
	22	-0.49463	0.81424	0.35297			6	-0.96574	0.26523	0.11498	
	23	-0.50930	0.80651	0.34962			7	-0.97026	0.25012	0.10843	
	24	-0.52383	0.79854	0.34616			8	-0.97450	0.23494	0.10185	
	25	-0.53821	0.79035	0.34261			9	-0.97845	0.21969	0.09524	
	26	-0.55244	0.78194	0.33897			10	-0.98211	0.20438	0.08860	
	27	-0.56652	0.77331	0.33523			11	-0.98549	0.18901	0.08194	
	28	-0.58043	0.76446	0.33139			12	-0.98859	0.17359	0.07525	
	29	-0.59418	0.75539	0.32746			13	-0.99139	0.15812	0.06855	
	30	-0.60777	0.74611	0.32344			14	-0.99391	0.14260	0.06182	
	31	-0.62119	0.73662	0.31932			15	-0.99613	0.12704	0.05508	
	VIII	1	-0.63443	0.72692			0.31512	16	-0.99807	0.11145	0.04832
		2	-0.64749	0.71702			0.31083	17	-0.99972	0.09583	0.04154
		3	-0.66038	0.70691			0.30644	18	-1.00107	0.08018	0.03476
4		-0.67307	0.69659	0.30197	19		-1.00214	0.06451	0.02797		
5		-0.68558	0.68608	0.29742	20		-1.00292	0.04882	0.02116		
6		-0.69789	0.67538	0.29278	21		-1.00340	0.03312	0.01436		
7		-0.71000	0.66448	0.28805	22		-1.00359	0.01740	0.00755		
8		-0.72191	0.65339	0.28325	23		-1.00349	0.00168	0.00073		
9		-0.73361	0.64211	0.27836	24		-1.00310	-0.01404	-0.00608		
10		-0.74511	0.63065	0.27339	25		-1.00242	-0.02975	-0.01289		
11		-0.75639	0.61902	0.26835	26		-1.00144	-0.04546	-0.01970		
12		-0.76745	0.60720	0.26323	27		-1.00017	-0.06116	-0.02651		
13		-0.77830	0.59521	0.25803	28		-0.99860	-0.07684	-0.03330		
14		-0.78892	0.58306	0.25276	29		-0.99675	-0.09250	-0.04009		
15		-0.79932	0.57074	0.24742	30		-0.99459	-0.10813	-0.04687		
16		-0.80948	0.55825	0.24200	X		1	-0.99215	-0.12373	-0.05363	
17		-0.81942	0.54561	0.23652		2	-0.98941	-0.13930	-0.06038		
18		-0.82912	0.53282	0.23098		3	-0.98638	-0.15483	-0.06711		

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X	4	-0.98306	-0.17031	-0.07382	XI	19	-0.54451	-0.75677	-0.32805
	5	-0.97944	-0.18574	-0.08051		20	-0.52980	-0.76528	-0.33174
	6	-0.97553	-0.20112	-0.08718		21	-0.51492	-0.77357	-0.33534
	7	-0.97134	-0.21644	-0.09382		22	-0.49989	-0.78162	-0.33882
	8	-0.96685	-0.23169	-0.10043		23	-0.48470	-0.78942	-0.34221
	9	-0.96207	-0.24687	-0.10701		24	-0.46936	-0.79699	-0.34549
	10	-0.95701	-0.26198	-0.11356		25	-0.45388	-0.80432	-0.34866
	11	-0.95167	-0.27701	-0.12008		26	-0.43826	-0.81139	-0.35173
	12	-0.94604	-0.29196	-0.12656		27	-0.42250	-0.81822	-0.35469
	13	-0.94012	-0.30681	-0.13300		28	-0.40661	-0.82480	-0.35754
	14	-0.93393	-0.32158	-0.13940		29	-0.39060	-0.83113	-0.36029
	15	-0.92746	-0.33624	-0.14576		30	-0.37446	-0.83719	-0.36292
	16	-0.92072	-0.35081	-0.15207	XII	1	-0.35820	-0.84300	-0.36544
	17	-0.91370	-0.36527	-0.15834		2	-0.34183	-0.84855	-0.36784
	18	-0.90641	-0.37962	-0.16456		3	-0.32536	-0.85384	-0.37013
	19	-0.89885	-0.39386	-0.17073		4	-0.30878	-0.85886	-0.37231
	20	-0.89103	-0.40798	-0.17685		5	-0.29211	-0.86361	-0.37437
	21	-0.88293	-0.42197	-0.18292		6	-0.27535	-0.86810	-0.37632
	22	-0.87458	-0.43584	-0.18893		7	-0.25850	-0.87231	-0.37815
	23	-0.86596	-0.44959	-0.19489		8	-0.24157	-0.87626	-0.37986
	24	-0.85709	-0.46319	-0.20079		9	-0.22457	-0.87993	-0.38145
	25	-0.84795	-0.47666	-0.20663		10	-0.20750	-0.88333	-0.38292
	26	-0.83856	-0.48999	-0.21240		11	-0.19037	-0.88645	-0.38427
	27	-0.82892	-0.50317	-0.21812		12	-0.17318	-0.88930	-0.38551
	28	-0.81903	-0.51620	-0.22377		13	-0.15594	-0.89187	-0.38662
	29	-0.80889	-0.52908	-0.22935		14	-0.13865	-0.89417	-0.38762
	30	-0.79851	-0.54180	-0.23486		15	-0.12132	-0.89619	-0.38849
	31	-0.78788	-0.55435	-0.24030		16	-0.10396	-0.89793	-0.38925
XI	1	-0.77702	-0.56674	-0.24567		17	-0.08656	-0.89940	-0.38988
	2	-0.76591	-0.57896	-0.25097		18	-0.06914	-0.90058	-0.39040
	3	-0.75458	-0.59100	-0.25619		19	-0.05169	-0.90149	-0.39079
	4	-0.74301	-0.60286	-0.26133		20	-0.03423	-0.90212	-0.39106
	5	-0.73122	-0.61454	-0.26640		21	-0.01676	-0.90247	-0.39122
	6	-0.71920	-0.62603	-0.27138		22	0.00072	-0.90255	-0.39125
	7	-0.70696	-0.63733	-0.27628		23	0.01820	-0.90234	-0.39116
	8	-0.69451	-0.64843	-0.28109		24	0.03567	-0.90185	-0.39095
	9	-0.68185	-0.65934	-0.28582		25	0.05313	-0.90108	-0.39061
	10	-0.66898	-0.67004	-0.29046		26	0.07058	-0.90004	-0.39016
	11	-0.65591	-0.68054	-0.29501		27	0.08801	-0.89871	-0.38958
	12	-0.64264	-0.69083	-0.29947		28	0.10541	-0.89710	-0.38889
	13	-0.62917	-0.70091	-0.30384		29	0.12278	-0.89522	-0.38807
	14	-0.61551	-0.71077	-0.30812		30	0.14012	-0.89305	-0.38713
	15	-0.60167	-0.72041	-0.31230		31	0.15741	-0.89061	-0.38608
	16	-0.58764	-0.72984	-0.31638					
	17	-0.57344	-0.73904	-0.32037					
	18	-0.55906	-0.74802	-0.32426					