

SŁOŃCE

Data 2022	0 ^h UT			Data 2022	0 ^h UT					
	X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀		X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀			
I	1	0.17465	-0.88788	-0.38490	II	16	0.82823	-0.49389	-0.21410	
	2	0.19184	-0.88488	-0.38360		17	0.83775	-0.48053	-0.20831	
	3	0.20897	-0.88160	-0.38217		18	0.84702	-0.46701	-0.20245	
	4	0.22604	-0.87805	-0.38063		19	0.85603	-0.45336	-0.19653	
	5	0.24303	-0.87422	-0.37898		20	0.86478	-0.43956	-0.19055	
	6	0.25995	-0.87012	-0.37720		21	0.87327	-0.42564	-0.18451	
	7	0.27678	-0.86575	-0.37530		22	0.88149	-0.41158	-0.17842	
	8	0.29353	-0.86110	-0.37329		23	0.88944	-0.39739	-0.17227	
	9	0.31018	-0.85619	-0.37116		24	0.89712	-0.38308	-0.16607	
	10	0.32674	-0.85101	-0.36891		25	0.90453	-0.36865	-0.15982	
	11	0.34319	-0.84557	-0.36655		26	0.91166	-0.35411	-0.15351	
	12	0.35953	-0.83987	-0.36408		27	0.91852	-0.33946	-0.14716	
	13	0.37577	-0.83390	-0.36150		28	0.92509	-0.32470	-0.14077	
	14	0.39188	-0.82768	-0.35880		III	1	0.93138	-0.30985	-0.13433
	15	0.40787	-0.82120	-0.35599			2	0.93739	-0.29490	-0.12784
	16	0.42373	-0.81447	-0.35307			3	0.94311	-0.27985	-0.12132
	17	0.43947	-0.80749	-0.35004			4	0.94854	-0.26473	-0.11476
	18	0.45506	-0.80025	-0.34690			5	0.95368	-0.24952	-0.10817
	19	0.47052	-0.79277	-0.34366			6	0.95853	-0.23423	-0.10155
	20	0.48583	-0.78504	-0.34031			7	0.96309	-0.21888	-0.09489
	21	0.50099	-0.77707	-0.33686			8	0.96736	-0.20346	-0.08821
	22	0.51600	-0.76886	-0.33330			9	0.97133	-0.18798	-0.08149
	23	0.53085	-0.76041	-0.32964			10	0.97501	-0.17245	-0.07476
	24	0.54553	-0.75173	-0.32587			11	0.97839	-0.15686	-0.06800
	25	0.56005	-0.74281	-0.32200			12	0.98148	-0.14123	-0.06123
	26	0.57439	-0.73366	-0.31804			13	0.98427	-0.12556	-0.05443
	27	0.58856	-0.72428	-0.31397		14	0.98677	-0.10985	-0.04762	
	28	0.60255	-0.71467	-0.30981		15	0.98896	-0.09410	-0.04080	
	29	0.61635	-0.70485	-0.30555	16	0.99087	-0.07833	-0.03396		
	30	0.62996	-0.69480	-0.30120	17	0.99247	-0.06254	-0.02711		
	31	0.64337	-0.68453	-0.29675	18	0.99378	-0.04673	-0.02026		
II	1	0.65659	-0.67406	-0.29221	19	0.99479	-0.03091	-0.01340		
	2	0.66960	-0.66337	-0.28757	20	0.99550	-0.01507	-0.00654		
	3	0.68240	-0.65247	-0.28285	21	0.99592	0.00077	0.00033		
	4	0.69499	-0.64138	-0.27804	22	0.99604	0.01661	0.00719		
	5	0.70737	-0.63008	-0.27314	23	0.99587	0.03244	0.01406		
	6	0.71952	-0.61860	-0.26816	24	0.99539	0.04827	0.02092		
	7	0.73145	-0.60692	-0.26310	25	0.99462	0.06408	0.02777		
	8	0.74315	-0.59505	-0.25796	26	0.99356	0.07988	0.03462		
	9	0.75462	-0.58300	-0.25273	27	0.99219	0.09566	0.04146		
	10	0.76586	-0.57078	-0.24743	28	0.99053	0.11140	0.04828		
	11	0.77687	-0.55838	-0.24206	29	0.98858	0.12712	0.05510		
	12	0.78763	-0.54580	-0.23661	30	0.98633	0.14280	0.06189		
	13	0.79815	-0.53307	-0.23108	31	0.98378	0.15843	0.06867		
	14	0.80842	-0.52016	-0.22549	IV	1	0.98094	0.17402	0.07543	
	15	0.81845	-0.50710	-0.21983		2	0.97781	0.18956	0.08217	

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IV	3	0.97438	0.20504	0.08888	V	19	0.54029	0.78463	0.34013
	4	0.97067	0.22046	0.09556		20	0.52595	0.79301	0.34376
	5	0.96666	0.23582	0.10222		21	0.51147	0.80117	0.34729
	6	0.96237	0.25110	0.10885		22	0.49684	0.80909	0.35073
	7	0.95780	0.26631	0.11544		23	0.48206	0.81679	0.35407
	8	0.95294	0.28143	0.12200		24	0.46715	0.82426	0.35730
	9	0.94780	0.29648	0.12852		25	0.45210	0.83149	0.36044
	10	0.94239	0.31143	0.13500		26	0.43692	0.83848	0.36347
	11	0.93669	0.32629	0.14144		27	0.42161	0.84524	0.36640
	12	0.93073	0.34106	0.14784		28	0.40618	0.85175	0.36922
	13	0.92449	0.35572	0.15420		29	0.39064	0.85802	0.37194
	14	0.91797	0.37028	0.16051		30	0.37498	0.86405	0.37456
	15	0.91120	0.38473	0.16677		31	0.35922	0.86982	0.37706
	16	0.90415	0.39906	0.17299	VI	1	0.34336	0.87535	0.37946
	17	0.89684	0.41328	0.17915		2	0.32739	0.88063	0.38175
	18	0.88928	0.42738	0.18526		3	0.31134	0.88566	0.38393
	19	0.88145	0.44136	0.19132		4	0.29519	0.89044	0.38600
	20	0.87337	0.45521	0.19732		5	0.27897	0.89496	0.38796
	21	0.86503	0.46892	0.20327		6	0.26266	0.89923	0.38981
	22	0.85644	0.48250	0.20916		7	0.24629	0.90325	0.39155
	23	0.84760	0.49595	0.21498		8	0.22984	0.90700	0.39318
	24	0.83851	0.50925	0.22075		9	0.21333	0.91050	0.39470
	25	0.82918	0.52240	0.22645		10	0.19676	0.91375	0.39610
	26	0.81960	0.53540	0.23209		11	0.18014	0.91673	0.39740
	27	0.80978	0.54825	0.23765		12	0.16347	0.91946	0.39858
	28	0.79973	0.56094	0.24316		13	0.14676	0.92193	0.39965
	29	0.78945	0.57346	0.24859		14	0.13000	0.92413	0.40060
	30	0.77893	0.58582	0.25394		15	0.11321	0.92608	0.40145
V	1	0.76819	0.59801	0.25923		16	0.09638	0.92777	0.40218
	2	0.75722	0.61002	0.26444		17	0.07953	0.92920	0.40280
	3	0.74603	0.62186	0.26957		18	0.06265	0.93037	0.40331
	4	0.73463	0.63351	0.27462		19	0.04576	0.93128	0.40370
	5	0.72302	0.64498	0.27959		20	0.02885	0.93192	0.40398
	6	0.71119	0.65627	0.28449		21	0.01193	0.93230	0.40415
	7	0.69917	0.66736	0.28929		22	-0.00500	0.93242	0.40420
	8	0.68694	0.67826	0.29402		23	-0.02192	0.93228	0.40414
	9	0.67451	0.68896	0.29866		24	-0.03884	0.93187	0.40396
	10	0.66189	0.69946	0.30321		25	-0.05575	0.93120	0.40367
	11	0.64908	0.70977	0.30768		26	-0.07265	0.93027	0.40327
	12	0.63609	0.71986	0.31206		27	-0.08952	0.92907	0.40275
	13	0.62292	0.72976	0.31634		28	-0.10637	0.92761	0.40212
	14	0.60957	0.73944	0.32054		29	-0.12319	0.92589	0.40137
	15	0.59604	0.74891	0.32464		30	-0.13998	0.92391	0.40051
	16	0.58235	0.75817	0.32866	VII	1	-0.15673	0.92166	0.39954
	17	0.56849	0.76721	0.33258		2	-0.17343	0.91915	0.39845
	18	0.55447	0.77603	0.33640		3	-0.19008	0.91639	0.39725

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VII	4	-0.20668	0.91336	0.39594	VIII	19	-0.83624	0.52320	0.22681
	5	-0.22321	0.91008	0.39452		20	-0.84553	0.51015	0.22115
	6	-0.23969	0.90654	0.39298		21	-0.85459	0.49695	0.21543
	7	-0.25609	0.90274	0.39134		22	-0.86341	0.48360	0.20964
	8	-0.27242	0.89869	0.38958		23	-0.87197	0.47012	0.20380
	9	-0.28867	0.89439	0.38772		24	-0.88029	0.45650	0.19790
	10	-0.30484	0.88984	0.38574		25	-0.88836	0.44275	0.19194
	11	-0.32093	0.88504	0.38366		26	-0.89616	0.42887	0.18592
	12	-0.33692	0.87999	0.38147		27	-0.90372	0.41487	0.17985
	13	-0.35281	0.87470	0.37917		28	-0.91101	0.40075	0.17373
	14	-0.36861	0.86916	0.37677		29	-0.91804	0.38651	0.16756
	15	-0.38431	0.86338	0.37427		30	-0.92480	0.37216	0.16134
	16	-0.39989	0.85735	0.37165		31	-0.93130	0.35771	0.15507
	17	-0.41537	0.85108	0.36894	IX	1	-0.93752	0.34315	0.14876
	18	-0.43073	0.84458	0.36612		2	-0.94348	0.32850	0.14241
	19	-0.44597	0.83784	0.36320		3	-0.94916	0.31375	0.13601
	20	-0.46109	0.83086	0.36017		4	-0.95457	0.29891	0.12958
	21	-0.47607	0.82364	0.35704		5	-0.95970	0.28399	0.12311
	22	-0.49093	0.81620	0.35382		6	-0.96456	0.26899	0.11661
	23	-0.50565	0.80852	0.35049		7	-0.96913	0.25391	0.11007
	24	-0.52022	0.80061	0.34706		8	-0.97343	0.23876	0.10350
	25	-0.53465	0.79248	0.34354		9	-0.97745	0.22354	0.09690
	26	-0.54893	0.78412	0.33991		10	-0.98119	0.20826	0.09028
	27	-0.56306	0.77553	0.33619		11	-0.98464	0.19291	0.08363
	28	-0.57702	0.76673	0.33238		12	-0.98781	0.17752	0.07696
	29	-0.59082	0.75771	0.32847		13	-0.99070	0.16207	0.07026
	30	-0.60446	0.74847	0.32446		14	-0.99329	0.14657	0.06354
	31	-0.61792	0.73902	0.32037		15	-0.99561	0.13103	0.05680
VIII	1	-0.63120	0.72937	0.31618		16	-0.99763	0.11545	0.05005
	2	-0.64431	0.71950	0.31190		17	-0.99936	0.09983	0.04328
	3	-0.65723	0.70943	0.30754		18	-1.00081	0.08419	0.03650
	4	-0.66996	0.69916	0.30309		19	-1.00196	0.06852	0.02971
	5	-0.68250	0.68870	0.29855		20	-1.00282	0.05282	0.02291
	6	-0.69485	0.67804	0.29393		21	-1.00338	0.03711	0.01610
	7	-0.70700	0.66719	0.28922		22	-1.00365	0.02139	0.00928
	8	-0.71895	0.65615	0.28444		23	-1.00363	0.00566	0.00246
	9	-0.73069	0.64492	0.27957		24	-1.00331	-0.01007	-0.00436
	10	-0.74223	0.63352	0.27463		25	-1.00270	-0.02580	-0.01117
	11	-0.75355	0.62193	0.26960		26	-1.00179	-0.04152	-0.01799
	12	-0.76467	0.61017	0.26451		27	-1.00059	-0.05722	-0.02480
	13	-0.77556	0.59824	0.25933		28	-0.99909	-0.07292	-0.03160
	14	-0.78624	0.58614	0.25409		29	-0.99729	-0.08859	-0.03840
	15	-0.79670	0.57387	0.24877		30	-0.99520	-0.10423	-0.04518
	16	-0.80693	0.56144	0.24338	X	1	-0.99282	-0.11984	-0.05195
	17	-0.81693	0.54885	0.23793		2	-0.99014	-0.13541	-0.05870
	18	-0.82670	0.53610	0.23240		3	-0.98717	-0.15094	-0.06543

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X	4	-0.98391	-0.16643	-0.07214	XI	19	-0.54831	-0.75459	-0.32710
	5	-0.98036	-0.18186	-0.07883		20	-0.53363	-0.76317	-0.33083
	6	-0.97652	-0.19724	-0.08550		21	-0.51879	-0.77153	-0.33445
	7	-0.97240	-0.21256	-0.09214		22	-0.50379	-0.77964	-0.33797
	8	-0.96799	-0.22782	-0.09876		23	-0.48863	-0.78752	-0.34138
	9	-0.96329	-0.24301	-0.10534		24	-0.47332	-0.79515	-0.34469
	10	-0.95831	-0.25813	-0.11189		25	-0.45786	-0.80253	-0.34789
	11	-0.95304	-0.27317	-0.11841		26	-0.44226	-0.80967	-0.35099
	12	-0.94749	-0.28813	-0.12490		27	-0.42652	-0.81656	-0.35397
	13	-0.94167	-0.30301	-0.13135		28	-0.41066	-0.82319	-0.35685
	14	-0.93556	-0.31779	-0.13775		29	-0.39467	-0.82957	-0.35961
	15	-0.92917	-0.33249	-0.14412		30	-0.37855	-0.83569	-0.36227
	16	-0.92251	-0.34708	-0.15045	XII	1	-0.36233	-0.84156	-0.36481
	17	-0.91557	-0.36158	-0.15673		2	-0.34599	-0.84716	-0.36724
	18	-0.90836	-0.37596	-0.16297		3	-0.32955	-0.85250	-0.36955
	19	-0.90087	-0.39024	-0.16916		4	-0.31301	-0.85758	-0.37175
	20	-0.89312	-0.40440	-0.17530		5	-0.29637	-0.86240	-0.37384
	21	-0.88510	-0.41844	-0.18138		6	-0.27964	-0.86695	-0.37581
	22	-0.87681	-0.43235	-0.18741		7	-0.26283	-0.87123	-0.37767
	23	-0.86825	-0.44614	-0.19339		8	-0.24593	-0.87524	-0.37941
	24	-0.85943	-0.45979	-0.19931		9	-0.22897	-0.87899	-0.38103
	25	-0.85036	-0.47330	-0.20517		10	-0.21193	-0.88246	-0.38254
	26	-0.84102	-0.48667	-0.21096		11	-0.19482	-0.88566	-0.38392
	27	-0.83143	-0.49989	-0.21670		12	-0.17765	-0.88859	-0.38519
	28	-0.82159	-0.51296	-0.22236		13	-0.16043	-0.89124	-0.38634
	29	-0.81150	-0.52588	-0.22796		14	-0.14316	-0.89362	-0.38737
	30	-0.80117	-0.53863	-0.23349		15	-0.12584	-0.89572	-0.38829
	31	-0.79059	-0.55122	-0.23895		16	-0.10848	-0.89755	-0.38908
XI	1	-0.77978	-0.56364	-0.24433		17	-0.09108	-0.89909	-0.38975
	2	-0.76873	-0.57589	-0.24964		18	-0.07366	-0.90036	-0.39030
	3	-0.75745	-0.58797	-0.25488		19	-0.05621	-0.90135	-0.39073
	4	-0.74594	-0.59986	-0.26003		20	-0.03874	-0.90205	-0.39103
	5	-0.73421	-0.61158	-0.26511		21	-0.02126	-0.90248	-0.39122
	6	-0.72226	-0.62310	-0.27011		22	-0.00377	-0.90262	-0.39128
	7	-0.71009	-0.63444	-0.27502		23	0.01372	-0.90248	-0.39122
	8	-0.69770	-0.64559	-0.27985		24	0.03121	-0.90206	-0.39104
	9	-0.68510	-0.65654	-0.28460		25	0.04868	-0.90136	-0.39073
	10	-0.67230	-0.66729	-0.28926		26	0.06614	-0.90037	-0.39031
	11	-0.65929	-0.67785	-0.29384		27	0.08358	-0.89911	-0.38976
	12	-0.64608	-0.68819	-0.29832		28	0.10099	-0.89756	-0.38909
	13	-0.63268	-0.69833	-0.30271		29	0.11837	-0.89574	-0.38830
	14	-0.61908	-0.70825	-0.30702		30	0.13571	-0.89363	-0.38738
	15	-0.60529	-0.71796	-0.31123		31	0.15301	-0.89125	-0.38635
	16	-0.59131	-0.72746	-0.31534					
	17	-0.57716	-0.73673	-0.31936					
	18	-0.56282	-0.74577	-0.32328					