

SŁOŃCE

Data 2024	0 ^h UT			Data 2024	0 ^h UT					
	X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀		X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀			
I	1	0.16585	-0.88927	-0.38549	II	16	0.82333	-0.50069	-0.21705	
	2	0.18306	-0.88642	-0.38425		17	0.83298	-0.48739	-0.21128	
	3	0.20021	-0.88329	-0.38289		18	0.84238	-0.47395	-0.20545	
	4	0.21731	-0.87988	-0.38142		19	0.85151	-0.46036	-0.19956	
	5	0.23433	-0.87620	-0.37983		20	0.86039	-0.44663	-0.19361	
	6	0.25129	-0.87225	-0.37811		21	0.86900	-0.43276	-0.18760	
	7	0.26816	-0.86803	-0.37628		22	0.87735	-0.41877	-0.18153	
	8	0.28496	-0.86353	-0.37433		23	0.88543	-0.40465	-0.17541	
	9	0.30167	-0.85876	-0.37227		24	0.89324	-0.39040	-0.16924	
	10	0.31828	-0.85373	-0.37009		25	0.90078	-0.37604	-0.16301	
	11	0.33480	-0.84843	-0.36779		26	0.90805	-0.36156	-0.15674	
	12	0.35121	-0.84286	-0.36537		27	0.91504	-0.34697	-0.15041	
	13	0.36751	-0.83703	-0.36285		28	0.92175	-0.33228	-0.14404	
	14	0.38369	-0.83094	-0.36021		29	0.92818	-0.31748	-0.13763	
	15	0.39976	-0.82459	-0.35745		III	1	0.93433	-0.30259	-0.13118
	16	0.41570	-0.81798	-0.35459			2	0.94020	-0.28760	-0.12468
	17	0.43150	-0.81111	-0.35161			3	0.94578	-0.27253	-0.11815
	18	0.44717	-0.80400	-0.34853			4	0.95108	-0.25737	-0.11158
	19	0.46270	-0.79664	-0.34533			5	0.95609	-0.24213	-0.10497
	20	0.47809	-0.78902	-0.34203			6	0.96081	-0.22682	-0.09833
	21	0.49333	-0.78117	-0.33863			7	0.96524	-0.21144	-0.09166
	22	0.50841	-0.77307	-0.33512			8	0.96937	-0.19599	-0.08497
	23	0.52333	-0.76474	-0.33151			9	0.97321	-0.18048	-0.07824
	24	0.53809	-0.75617	-0.32779			10	0.97675	-0.16491	-0.07150
	25	0.55269	-0.74737	-0.32397			11	0.98000	-0.14930	-0.06473
	26	0.56711	-0.73833	-0.32006			12	0.98295	-0.13364	-0.05794
	27	0.58136	-0.72907	-0.31604		13	0.98560	-0.11794	-0.05113	
	28	0.59543	-0.71958	-0.31193		14	0.98795	-0.10221	-0.04431	
	29	0.60932	-0.70987	-0.30772		15	0.99001	-0.08644	-0.03748	
	30	0.62302	-0.69994	-0.30342	16	0.99176	-0.07065	-0.03063		
	31	0.63653	-0.68980	-0.29902	17	0.99322	-0.05484	-0.02378		
II	1	0.64984	-0.67944	-0.29453	18	0.99437	-0.03902	-0.01692		
	2	0.66295	-0.66887	-0.28995	19	0.99523	-0.02319	-0.01005		
	3	0.67586	-0.65809	-0.28528	20	0.99580	-0.00735	-0.00319		
	4	0.68856	-0.64711	-0.28052	21	0.99606	0.00849	0.00368		
	5	0.70105	-0.63592	-0.27567	22	0.99603	0.02433	0.01054		
	6	0.71332	-0.62454	-0.27074	23	0.99570	0.04016	0.01740		
	7	0.72538	-0.61296	-0.26572	24	0.99507	0.05598	0.02426		
	8	0.73721	-0.60120	-0.26062	25	0.99415	0.07178	0.03111		
	9	0.74881	-0.58924	-0.25544	26	0.99293	0.08756	0.03795		
	10	0.76018	-0.57711	-0.25018	27	0.99142	0.10331	0.04478		
	11	0.77131	-0.56479	-0.24484	28	0.98961	0.11903	0.05159		
	12	0.78221	-0.55230	-0.23942	29	0.98751	0.13472	0.05839		
	13	0.79286	-0.53964	-0.23393	30	0.98512	0.15037	0.06517		
	14	0.80326	-0.52682	-0.22837	31	0.98244	0.16597	0.07194		
	15	0.81342	-0.51383	-0.22274	IV	1	0.97946	0.18153	0.07868	
				2		0.97620	0.19703	0.08540		

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IV	3	0.97264	0.21248	0.09210	V	19	0.53337	0.78873	0.34190
	4	0.96880	0.22787	0.09877		20	0.51896	0.79699	0.34548
	5	0.96467	0.24319	0.10541		21	0.50440	0.80503	0.34897
	6	0.96025	0.25844	0.11202		22	0.48969	0.81284	0.35235
	7	0.95555	0.27361	0.11860		23	0.47485	0.82041	0.35563
	8	0.95056	0.28871	0.12514		24	0.45988	0.82776	0.35882
	9	0.94529	0.30372	0.13165		25	0.44477	0.83486	0.36190
	10	0.93974	0.31863	0.13812		26	0.42954	0.84174	0.36488
	11	0.93392	0.33346	0.14455		27	0.41418	0.84837	0.36775
	12	0.92781	0.34818	0.15093		28	0.39871	0.85476	0.37052
	13	0.92144	0.36280	0.15727		29	0.38312	0.86092	0.37319
	14	0.91479	0.37731	0.16356		30	0.36742	0.86683	0.37575
	15	0.90788	0.39171	0.16980		31	0.35162	0.87249	0.37821
	16	0.90070	0.40600	0.17599	VI	1	0.33571	0.87790	0.38056
	17	0.89325	0.42016	0.18213		2	0.31971	0.88307	0.38280
	18	0.88555	0.43420	0.18822		3	0.30362	0.88799	0.38493
	19	0.87759	0.44811	0.19425		4	0.28744	0.89265	0.38695
	20	0.86937	0.46189	0.20022		5	0.27117	0.89706	0.38886
	21	0.86090	0.47554	0.20614		6	0.25483	0.90121	0.39067
	22	0.85218	0.48905	0.21199		7	0.23841	0.90511	0.39236
	23	0.84322	0.50241	0.21778		8	0.22193	0.90875	0.39393
	24	0.83401	0.51563	0.22351		9	0.20538	0.91213	0.39540
	25	0.82456	0.52870	0.22918		10	0.18878	0.91525	0.39675
	26	0.81487	0.54162	0.23478		11	0.17212	0.91812	0.39799
	27	0.80494	0.55438	0.24031		12	0.15542	0.92072	0.39912
	28	0.79479	0.56698	0.24577		13	0.13867	0.92306	0.40013
	29	0.78440	0.57942	0.25116		14	0.12189	0.92514	0.40104
	30	0.77378	0.59169	0.25648		15	0.10507	0.92696	0.40182
V	1	0.76294	0.60379	0.26173		16	0.08822	0.92851	0.40250
	2	0.75188	0.61572	0.26690		17	0.07136	0.92981	0.40306
	3	0.74060	0.62747	0.27200		18	0.05447	0.93084	0.40350
	4	0.72910	0.63905	0.27701		19	0.03757	0.93161	0.40384
	5	0.71739	0.65043	0.28195		20	0.02066	0.93212	0.40406
	6	0.70547	0.66163	0.28680		21	0.00374	0.93237	0.40416
	7	0.69335	0.67264	0.29158		22	-0.01318	0.93235	0.40416
	8	0.68103	0.68345	0.29627		23	-0.03009	0.93208	0.40404
	9	0.66851	0.69407	0.30087		24	-0.04700	0.93154	0.40381
	10	0.65579	0.70448	0.30538		25	-0.06389	0.93074	0.40346
	11	0.64289	0.71470	0.30981		26	-0.08077	0.92968	0.40300
	12	0.62980	0.72470	0.31415		27	-0.09762	0.92836	0.40243
	13	0.61653	0.73449	0.31839		28	-0.11445	0.92678	0.40175
	14	0.60309	0.74408	0.32255		29	-0.13125	0.92494	0.40095
	15	0.58947	0.75345	0.32661		30	-0.14801	0.92284	0.40004
	16	0.57569	0.76260	0.33057	VII	1	-0.16474	0.92047	0.39902
	17	0.56174	0.77153	0.33445		2	-0.18141	0.91785	0.39788
	18	0.54763	0.78024	0.33822		3	-0.19804	0.91497	0.39663

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VII	4	-0.21462	0.91183	0.39527	VIII	19	-0.84074	0.51687	0.22406		
	5	-0.23113	0.90843	0.39379		20	-0.84991	0.50375	0.21837		
	6	-0.24758	0.90477	0.39221		21	-0.85884	0.49049	0.21262		
	7	-0.26395	0.90086	0.39051		22	-0.86753	0.47708	0.20681		
	8	-0.28026	0.89669	0.38871		23	-0.87597	0.46354	0.20094		
	9	-0.29648	0.89226	0.38679		24	-0.88416	0.44987	0.19502		
	10	-0.31262	0.88759	0.38476		25	-0.89210	0.43606	0.18903		
	11	-0.32867	0.88267	0.38263		26	-0.89979	0.42213	0.18300		
	12	-0.34462	0.87749	0.38038		27	-0.90722	0.40808	0.17691		
	13	-0.36048	0.87207	0.37803		28	-0.91439	0.39391	0.17076		
	14	-0.37623	0.86641	0.37558		29	-0.92130	0.37963	0.16457		
	15	-0.39188	0.86050	0.37301		30	-0.92794	0.36523	0.15833		
	16	-0.40741	0.85435	0.37035		31	-0.93431	0.35073	0.15204		
	17	-0.42283	0.84796	0.36758		IX	1	-0.94042	0.33613	0.14571	
	18	-0.43813	0.84133	0.36470			2	-0.94625	0.32142	0.13934	
	19	-0.45330	0.83446	0.36173			3	-0.95181	0.30663	0.13293	
	20	-0.46835	0.82737	0.35865			4	-0.95710	0.29175	0.12647	
	21	-0.48326	0.82003	0.35547			5	-0.96210	0.27678	0.11998	
	22	-0.49804	0.81247	0.35220			6	-0.96683	0.26173	0.11346	
	23	-0.51268	0.80469	0.34882			7	-0.97128	0.24661	0.10690	
	24	-0.52718	0.79667	0.34535			8	-0.97544	0.23141	0.10032	
	25	-0.54153	0.78843	0.34178			9	-0.97932	0.21615	0.09370	
	26	-0.55572	0.77997	0.33811			10	-0.98292	0.20083	0.08706	
	27	-0.56977	0.77129	0.33435			11	-0.98623	0.18545	0.08039	
	28	-0.58365	0.76239	0.33049			12	-0.98925	0.17002	0.07371	
	29	-0.59737	0.75328	0.32654			13	-0.99199	0.15455	0.06700	
	30	-0.61092	0.74395	0.32250			14	-0.99444	0.13902	0.06027	
	31	-0.62430	0.73440	0.31836			15	-0.99660	0.12346	0.05352	
	VIII	1	-0.63751	0.72465			0.31413	16	-0.99847	0.10787	0.04676
		2	-0.65053	0.71470			0.30982	17	-1.00006	0.09224	0.03999
		3	-0.66337	0.70453			0.30541	18	-1.00135	0.07659	0.03320
4		-0.67602	0.69417	0.30092	19	-1.00235	0.06091	0.02641			
5		-0.68848	0.68361	0.29634	20	-1.00307	0.04522	0.01961			
6		-0.70074	0.67286	0.29168	21	-1.00349	0.02951	0.01280			
7		-0.71280	0.66191	0.28694	22	-1.00362	0.01380	0.00599			
8		-0.72466	0.65078	0.28211	23	-1.00345	-0.00192	-0.00083			
9		-0.73631	0.63946	0.27720	24	-1.00300	-0.01765	-0.00764			
10		-0.74775	0.62796	0.27222	25	-1.00225	-0.03337	-0.01445			
11		-0.75898	0.61628	0.26715	26	-1.00120	-0.04908	-0.02127			
12		-0.76999	0.60443	0.26201	27	-0.99986	-0.06477	-0.02807			
13		-0.78078	0.59241	0.25680	28	-0.99823	-0.08045	-0.03487			
14		-0.79135	0.58021	0.25152	29	-0.99630	-0.09611	-0.04165			
15		-0.80169	0.56786	0.24616	30	-0.99408	-0.11174	-0.04843			
16		-0.81180	0.55534	0.24074	X	1	-0.99156	-0.12734	-0.05519		
17		-0.82168	0.54267	0.23524		2	-0.98875	-0.14290	-0.06194		
18		-0.83133	0.52985	0.22968		3	-0.98565	-0.15841	-0.06866		

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X	4	-0.98225	-0.17388	-0.07537	XI	19	-0.54114	-0.75874	-0.32890
	5	-0.97857	-0.18930	-0.08206		20	-0.52638	-0.76721	-0.33257
	6	-0.97459	-0.20466	-0.08872		21	-0.51147	-0.77544	-0.33614
	7	-0.97032	-0.21996	-0.09535		22	-0.49640	-0.78344	-0.33960
	8	-0.96576	-0.23520	-0.10195		23	-0.48117	-0.79120	-0.34297
	9	-0.96092	-0.25036	-0.10853		24	-0.46580	-0.79871	-0.34623
	10	-0.95579	-0.26545	-0.11507		25	-0.45028	-0.80598	-0.34938
	11	-0.95038	-0.28045	-0.12157		26	-0.43462	-0.81301	-0.35242
	12	-0.94468	-0.29538	-0.12804		27	-0.41883	-0.81978	-0.35536
	13	-0.93871	-0.31021	-0.13447		28	-0.40290	-0.82630	-0.35819
	14	-0.93246	-0.32495	-0.14086		29	-0.38685	-0.83256	-0.36090
	15	-0.92593	-0.33959	-0.14720		30	-0.37068	-0.83857	-0.36351
	16	-0.91912	-0.35413	-0.15351	XII	1	-0.35440	-0.84431	-0.36600
	17	-0.91204	-0.36856	-0.15976		2	-0.33800	-0.84980	-0.36838
	18	-0.90470	-0.38289	-0.16597		3	-0.32150	-0.85502	-0.37064
	19	-0.89708	-0.39710	-0.17213		4	-0.30490	-0.85998	-0.37279
	20	-0.88920	-0.41119	-0.17824		5	-0.28821	-0.86466	-0.37482
	21	-0.88105	-0.42517	-0.18430		6	-0.27142	-0.86908	-0.37674
	22	-0.87263	-0.43901	-0.19030		7	-0.25456	-0.87323	-0.37853
	23	-0.86396	-0.45273	-0.19624		8	-0.23762	-0.87711	-0.38022
	24	-0.85502	-0.46631	-0.20213		9	-0.22060	-0.88072	-0.38178
	25	-0.84583	-0.47975	-0.20796		10	-0.20352	-0.88405	-0.38322
	26	-0.83638	-0.49305	-0.21372		11	-0.18638	-0.88711	-0.38455
	27	-0.82668	-0.50620	-0.21942		12	-0.16918	-0.88990	-0.38576
	28	-0.81672	-0.51920	-0.22506		13	-0.15193	-0.89241	-0.38684
	29	-0.80652	-0.53204	-0.23063		14	-0.13464	-0.89464	-0.38781
	30	-0.79608	-0.54472	-0.23612		15	-0.11730	-0.89660	-0.38866
	31	-0.78539	-0.55724	-0.24155		16	-0.09993	-0.89829	-0.38939
XI	1	-0.77447	-0.56958	-0.24690		17	-0.08253	-0.89969	-0.39000
	2	-0.76330	-0.58176	-0.25218		18	-0.06510	-0.90082	-0.39049
	3	-0.75191	-0.59376	-0.25738		19	-0.04765	-0.90167	-0.39086
	4	-0.74029	-0.60557	-0.26251		20	-0.03018	-0.90223	-0.39110
	5	-0.72844	-0.61721	-0.26755		21	-0.01271	-0.90252	-0.39123
	6	-0.71637	-0.62865	-0.27251		22	0.00478	-0.90253	-0.39123
	7	-0.70408	-0.63990	-0.27739		23	0.02226	-0.90226	-0.39112
	8	-0.69158	-0.65096	-0.28218		24	0.03973	-0.90171	-0.39088
	9	-0.67887	-0.66181	-0.28688		25	0.05720	-0.90088	-0.39052
	10	-0.66596	-0.67246	-0.29150		26	0.07465	-0.89977	-0.39004
	11	-0.65284	-0.68291	-0.29603		27	0.09208	-0.89837	-0.38944
	12	-0.63953	-0.69315	-0.30047		28	0.10948	-0.89670	-0.38871
	13	-0.62602	-0.70318	-0.30481		29	0.12684	-0.89475	-0.38786
	14	-0.61232	-0.71299	-0.30907		30	0.14417	-0.89251	-0.38690
	15	-0.59844	-0.72258	-0.31323		31	0.16145	-0.89000	-0.38581
	16	-0.58438	-0.73196	-0.31729					
	17	-0.57014	-0.74111	-0.32126					
	18	-0.55572	-0.75004	-0.32513					