

SŁOŃCE

Data 2015	0 ^h UT			Data 2015	0 ^h UT				
	X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀		X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀		
I	1	0.17116	-0.88841	-0.38514	II	16	0.82630	-0.49667	-0.21531
	2	0.18835	-0.88546	-0.38386		17	0.83588	-0.48333	-0.20953
	3	0.20548	-0.88224	-0.38247		18	0.84521	-0.46983	-0.20368
	4	0.22255	-0.87874	-0.38095		19	0.85428	-0.45620	-0.19777
	5	0.23954	-0.87497	-0.37932		20	0.86309	-0.44242	-0.19180
	6	0.25646	-0.87093	-0.37757		21	0.87163	-0.42850	-0.18576
	7	0.27330	-0.86662	-0.37570		22	0.87990	-0.41446	-0.17968
	8	0.29006	-0.86205	-0.37371		23	0.88790	-0.40029	-0.17353
	9	0.30673	-0.85720	-0.37161		24	0.89563	-0.38600	-0.16734
	10	0.32330	-0.85209	-0.36940		25	0.90308	-0.37159	-0.16109
	11	0.33978	-0.84671	-0.36706		26	0.91026	-0.35706	-0.15480
	12	0.35615	-0.84108	-0.36462		27	0.91715	-0.34244	-0.14846
	13	0.37241	-0.83518	-0.36206		28	0.92377	-0.32770	-0.14207
	14	0.38856	-0.82901	-0.35939	III	1	0.93011	-0.31287	-0.13564
	15	0.40459	-0.82259	-0.35661		2	0.93616	-0.29795	-0.12917
	16	0.42049	-0.81592	-0.35371		3	0.94194	-0.28294	-0.12266
	17	0.43626	-0.80899	-0.35071		4	0.94742	-0.26784	-0.11612
	18	0.45190	-0.80180	-0.34759		5	0.95262	-0.25266	-0.10954
	19	0.46740	-0.79437	-0.34437		6	0.95753	-0.23740	-0.10292
	20	0.48275	-0.78668	-0.34104		7	0.96215	-0.22208	-0.09628
	21	0.49796	-0.77876	-0.33760		8	0.96648	-0.20668	-0.08960
	22	0.51300	-0.77058	-0.33406		9	0.97053	-0.19123	-0.08290
	23	0.52789	-0.76217	-0.33041		10	0.97427	-0.17571	-0.07617
	24	0.54261	-0.75352	-0.32666		11	0.97773	-0.16014	-0.06942
	25	0.55716	-0.74464	-0.32281		12	0.98089	-0.14452	-0.06265
	26	0.57153	-0.73552	-0.31886		13	0.98376	-0.12886	-0.05586
	27	0.58573	-0.72618	-0.31481		14	0.98633	-0.11316	-0.04905
	28	0.59975	-0.71661	-0.31066		15	0.98860	-0.09742	-0.04223
	29	0.61357	-0.70682	-0.30642		16	0.99057	-0.08165	-0.03539
	30	0.62721	-0.69682	-0.30209		17	0.99225	-0.06585	-0.02855
	31	0.64065	-0.68660	-0.29766		18	0.99363	-0.05003	-0.02169
II	1	0.65389	-0.67617	-0.29313		19	0.99470	-0.03420	-0.01483
	2	0.66693	-0.66553	-0.28852		20	0.99548	-0.01835	-0.00796
	3	0.67977	-0.65469	-0.28382		21	0.99596	-0.00250	-0.00109
	4	0.69239	-0.64364	-0.27903		22	0.99613	0.01335	0.00578
	5	0.70481	-0.63240	-0.27416		23	0.99601	0.02920	0.01265
	6	0.71700	-0.62097	-0.26920		24	0.99559	0.04503	0.01952
	7	0.72898	-0.60934	-0.26416		25	0.99487	0.06085	0.02638
	8	0.74073	-0.59752	-0.25904		26	0.99385	0.07666	0.03323
	9	0.75226	-0.58552	-0.25383		27	0.99253	0.09243	0.04007
	10	0.76355	-0.57334	-0.24855		28	0.99092	0.10818	0.04689
	11	0.77461	-0.56099	-0.24320		29	0.98901	0.12390	0.05371
	12	0.78544	-0.54845	-0.23776		30	0.98681	0.13957	0.06050
	13	0.79602	-0.53575	-0.23226		31	0.98432	0.15521	0.06728
	14	0.80636	-0.52289	-0.22668	IV	1	0.98154	0.17080	0.07404
II	15	0.81645	-0.50986	-0.22103	IV	2	0.97846	0.18633	0.08077

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IV	3	0.97510	0.20181	0.08748	V	19	0.54334	0.78289	0.33939
	4	0.97145	0.21723	0.09417		20	0.52902	0.79132	0.34304
	5	0.96752	0.23259	0.10083		21	0.51456	0.79952	0.34660
	6	0.96330	0.24788	0.10746		22	0.49994	0.80749	0.35005
	7	0.95879	0.26309	0.11405		23	0.48519	0.81523	0.35341
	8	0.95401	0.27823	0.12062		24	0.47029	0.82273	0.35666
	9	0.94894	0.29329	0.12714		25	0.45527	0.83000	0.35981
	10	0.94360	0.30826	0.13364		26	0.44011	0.83703	0.36286
	11	0.93797	0.32315	0.14009		27	0.42483	0.84383	0.36581
	12	0.93208	0.33794	0.14650		28	0.40943	0.85038	0.36865
	13	0.92590	0.35263	0.15287		29	0.39392	0.85669	0.37139
	14	0.91946	0.36722	0.15919		30	0.37829	0.86276	0.37402
	15	0.91274	0.38170	0.16547		31	0.36256	0.86858	0.37654
	16	0.90575	0.39608	0.17170	VI	1	0.34673	0.87415	0.37896
	17	0.89850	0.41033	0.17788		2	0.33080	0.87948	0.38127
	18	0.89098	0.42447	0.18401		3	0.31478	0.88457	0.38347
	19	0.88320	0.43848	0.19008		4	0.29867	0.88940	0.38557
	20	0.87516	0.45237	0.19610		5	0.28247	0.89398	0.38755
	21	0.86686	0.46612	0.20206		6	0.26619	0.89831	0.38943
	22	0.85831	0.47973	0.20796		7	0.24984	0.90239	0.39120
	23	0.84951	0.49320	0.21380		8	0.23342	0.90621	0.39286
	24	0.84046	0.50653	0.21958		9	0.21692	0.90978	0.39440
	25	0.83116	0.51970	0.22529		10	0.20037	0.91309	0.39584
	26	0.82163	0.53273	0.23094		11	0.18376	0.91614	0.39716
	27	0.81185	0.54560	0.23652		12	0.16709	0.91893	0.39837
	28	0.80185	0.55830	0.24203		13	0.15037	0.92146	0.39947
	29	0.79161	0.57085	0.24747		14	0.13361	0.92374	0.40045
	30	0.78114	0.58323	0.25284		15	0.11681	0.92574	0.40132
V	1	0.77045	0.59544	0.25813		16	0.09998	0.92749	0.40208
	2	0.75954	0.60748	0.26335		17	0.08312	0.92897	0.40272
	3	0.74841	0.61935	0.26849		18	0.06623	0.93019	0.40325
	4	0.73706	0.63103	0.27356		19	0.04933	0.93115	0.40366
	5	0.72550	0.64254	0.27855		20	0.03241	0.93184	0.40396
	6	0.71373	0.65386	0.28346		21	0.01549	0.93227	0.40415
	7	0.70176	0.66499	0.28828		22	-0.00144	0.93243	0.40422
	8	0.68959	0.67593	0.29303		23	-0.01837	0.93233	0.40418
	9	0.67722	0.68668	0.29769		24	-0.03529	0.93197	0.40402
	10	0.66465	0.69723	0.30226		25	-0.05219	0.93134	0.40375
	11	0.65189	0.70759	0.30675		26	-0.06909	0.93045	0.40337
	12	0.63894	0.71774	0.31115		27	-0.08596	0.92930	0.40287
	13	0.62581	0.72769	0.31546		28	-0.10280	0.92789	0.40226
	14	0.61249	0.73743	0.31968		29	-0.11962	0.92622	0.40153
	15	0.59900	0.74695	0.32381		30	-0.13640	0.92429	0.40070
	16	0.58534	0.75627	0.32785	VII	1	-0.15314	0.92210	0.39975
	17	0.57150	0.76536	0.33179		2	-0.16984	0.91965	0.39869
V	18	0.55750	0.77424	0.33564	VII	3	-0.18649	0.91695	0.39751

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VII	4	-0.20309	0.91398	0.39623	VIII	19	-0.83426	0.52590	0.22799
	5	-0.21963	0.91077	0.39483		20	-0.84360	0.51287	0.22234
	6	-0.23612	0.90729	0.39333		21	-0.85270	0.49969	0.21663
	7	-0.25253	0.90357	0.39171		22	-0.86156	0.48637	0.21086
	8	-0.26888	0.89958	0.38998		23	-0.87016	0.47291	0.20502
	9	-0.28516	0.89535	0.38815		24	-0.87852	0.45932	0.19913
	10	-0.30135	0.89086	0.38620		25	-0.88663	0.44560	0.19318
	11	-0.31746	0.88612	0.38415		26	-0.89448	0.43176	0.18718
	12	-0.33349	0.88113	0.38198		27	-0.90207	0.41779	0.18112
	13	-0.34942	0.87589	0.37971		28	-0.90941	0.40370	0.17502
	14	-0.36525	0.87040	0.37733		29	-0.91649	0.38950	0.16886
	15	-0.38098	0.86467	0.37484		30	-0.92330	0.37518	0.16265
	16	-0.39661	0.85869	0.37225		31	-0.92986	0.36076	0.15640
	17	-0.41212	0.85246	0.36955	IX	1	-0.93614	0.34624	0.15010
	18	-0.42751	0.84600	0.36675		2	-0.94216	0.33162	0.14376
	19	-0.44278	0.83929	0.36385		3	-0.94791	0.31690	0.13738
	20	-0.45793	0.83235	0.36084		4	-0.95339	0.30209	0.13096
	21	-0.47294	0.82518	0.35773		5	-0.95859	0.28719	0.12450
	22	-0.48782	0.81777	0.35451		6	-0.96352	0.27220	0.11800
	23	-0.50257	0.81013	0.35120		7	-0.96817	0.25714	0.11147
	24	-0.51716	0.80226	0.34779		8	-0.97254	0.24199	0.10491
	25	-0.53161	0.79416	0.34428		9	-0.97663	0.22678	0.09832
	26	-0.54591	0.78585	0.34068		10	-0.98044	0.21150	0.09169
	27	-0.56006	0.77731	0.33698		11	-0.98396	0.19616	0.08504
	28	-0.57404	0.76855	0.33318		12	-0.98719	0.18076	0.07837
	29	-0.58787	0.75958	0.32929		13	-0.99013	0.16531	0.07167
	30	-0.60152	0.75039	0.32531		14	-0.99279	0.14981	0.06495
	31	-0.61501	0.74100	0.32124		15	-0.99516	0.13426	0.05821
VIII	1	-0.62833	0.73139	0.31707		16	-0.99724	0.11868	0.05146
	2	-0.64146	0.72158	0.31282		17	-0.99902	0.10306	0.04469
	3	-0.65442	0.71157	0.30848		18	-1.00051	0.08742	0.03790
	4	-0.66720	0.70136	0.30405		19	-1.00171	0.07175	0.03111
	5	-0.67978	0.69094	0.29954		20	-1.00262	0.05606	0.02431
	6	-0.69218	0.68034	0.29494		21	-1.00323	0.04035	0.01750
	7	-0.70438	0.66953	0.29025		22	-1.00355	0.02464	0.01069
	8	-0.71638	0.65854	0.28549		23	-1.00358	0.00892	0.00387
	9	-0.72819	0.64736	0.28064		24	-1.00331	-0.00681	-0.00294
	10	-0.73978	0.63599	0.27571		25	-1.00275	-0.02253	-0.00976
	11	-0.75117	0.62444	0.27070		26	-1.00190	-0.03824	-0.01657
	12	-0.76234	0.61271	0.26562		27	-1.00076	-0.05394	-0.02338
	13	-0.77329	0.60081	0.26046		28	-0.99932	-0.06962	-0.03018
	14	-0.78402	0.58873	0.25523		29	-0.99759	-0.08528	-0.03697
	15	-0.79453	0.57649	0.24992		30	-0.99557	-0.10092	-0.04375
	16	-0.80481	0.56408	0.24454	X	1	-0.99326	-0.11653	-0.05051
	17	-0.81487	0.55151	0.23909		2	-0.99066	-0.13211	-0.05727
VIII	18	-0.82468	0.53878	0.23357	X	3	-0.98777	-0.14764	-0.06400

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X	4	-0.98458	-0.16314	-0.07072	XI	19	-0.55119	-0.75279	-0.32634
	5	-0.98110	-0.17859	-0.07742		20	-0.53654	-0.76141	-0.33008
	6	-0.97734	-0.19399	-0.08409		21	-0.52173	-0.76980	-0.33371
	7	-0.97328	-0.20933	-0.09075		22	-0.50676	-0.77795	-0.33725
	8	-0.96893	-0.22461	-0.09737		23	-0.49164	-0.78586	-0.34068
	9	-0.96430	-0.23983	-0.10397		24	-0.47637	-0.79353	-0.34400
	10	-0.95938	-0.25498	-0.11053		25	-0.46095	-0.80096	-0.34723
	11	-0.95417	-0.27005	-0.11706		26	-0.44539	-0.80815	-0.35034
	12	-0.94868	-0.28504	-0.12356		27	-0.42970	-0.81508	-0.35335
	13	-0.94290	-0.29994	-0.13002		28	-0.41387	-0.82177	-0.35625
	14	-0.93684	-0.31476	-0.13644		29	-0.39792	-0.82821	-0.35904
	15	-0.93050	-0.32948	-0.14283		30	-0.38184	-0.83439	-0.36172
	16	-0.92388	-0.34410	-0.14916	XII	1	-0.36565	-0.84031	-0.36429
	17	-0.91699	-0.35862	-0.15546		2	-0.34934	-0.84598	-0.36674
	18	-0.90982	-0.37303	-0.16170		3	-0.33292	-0.85139	-0.36909
	19	-0.90238	-0.38732	-0.16790		4	-0.31640	-0.85653	-0.37132
	20	-0.89467	-0.40150	-0.17405		5	-0.29977	-0.86141	-0.37343
	21	-0.88669	-0.41556	-0.18014		6	-0.28306	-0.86603	-0.37543
	22	-0.87844	-0.42949	-0.18618		7	-0.26625	-0.87038	-0.37731
	23	-0.86994	-0.44329	-0.19217		8	-0.24937	-0.87445	-0.37908
	24	-0.86117	-0.45696	-0.19809		9	-0.23240	-0.87826	-0.38073
	25	-0.85215	-0.47049	-0.20396		10	-0.21536	-0.88179	-0.38226
	26	-0.84287	-0.48388	-0.20976		11	-0.19825	-0.88505	-0.38367
	27	-0.83334	-0.49712	-0.21550		12	-0.18108	-0.88803	-0.38497
	28	-0.82356	-0.51021	-0.22118		13	-0.16386	-0.89074	-0.38614
	29	-0.81353	-0.52315	-0.22679		14	-0.14658	-0.89316	-0.38719
	30	-0.80326	-0.53594	-0.23233		15	-0.12926	-0.89531	-0.38812
	31	-0.79275	-0.54856	-0.23781		16	-0.11190	-0.89718	-0.38894
XI	1	-0.78200	-0.56102	-0.24321		17	-0.09451	-0.89877	-0.38963
	2	-0.77101	-0.57331	-0.24854		18	-0.07709	-0.90008	-0.39020
	3	-0.75979	-0.58543	-0.25379		19	-0.05964	-0.90112	-0.39064
	4	-0.74833	-0.59737	-0.25897		20	-0.04218	-0.90187	-0.39097
	5	-0.73665	-0.60914	-0.26407		21	-0.02471	-0.90234	-0.39117
	6	-0.72474	-0.62071	-0.26908		22	-0.00723	-0.90253	-0.39126
	7	-0.71262	-0.63211	-0.27402		23	0.01024	-0.90244	-0.39122
	8	-0.70027	-0.64330	-0.27888		24	0.02772	-0.90208	-0.39106
	9	-0.68771	-0.65431	-0.28365		25	0.04518	-0.90143	-0.39078
	10	-0.67494	-0.66511	-0.28833		26	0.06264	-0.90051	-0.39038
	11	-0.66196	-0.67571	-0.29292		27	0.08007	-0.89930	-0.38986
	12	-0.64878	-0.68611	-0.29743		28	0.09747	-0.89782	-0.38922
	13	-0.63540	-0.69629	-0.30184		29	0.11485	-0.89606	-0.38846
	14	-0.62183	-0.70626	-0.30617		30	0.13220	-0.89403	-0.38757
	15	-0.60806	-0.71601	-0.31039		31	0.14950	-0.89171	-0.38657
	16	-0.59411	-0.72554	-0.31453					
	17	-0.57998	-0.73485	-0.31856					
XI	18	-0.56567	-0.74394	-0.32250					