

**Sonnen-Länge  $\lambda$  [°] 2016 (J2000)**

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01.01.2016	279.764	279.849	279.934	280.019	280.104	280.189	280.274	280.359	280.444	280.529	280.614	280.698
02.01.2016	280.783	280.868	280.953	281.038	281.123	281.208	281.293	281.378	281.463	281.548	281.633	281.718
03.01.2016	281.803	281.888	281.973	282.058	282.142	282.227	282.312	282.397	282.482	282.567	282.652	282.737
04.01.2016	282.822	282.907	282.992	283.077	283.162	283.247	283.332	283.417	283.502	283.587	283.672	283.757
05.01.2016	283.841	283.926	284.011	284.096	284.181	284.266	284.351	284.436	284.521	284.606	284.691	284.776
06.01.2016	284.861	284.946	285.031	285.116	285.201	285.286	285.371	285.456	285.541	285.626	285.711	285.796
07.01.2016	285.880	285.965	286.050	286.135	286.220	286.305	286.390	286.475	286.560	286.645	286.730	286.815
08.01.2016	286.900	286.985	287.070	287.155	287.240	287.325	287.410	287.495	287.580	287.665	287.750	287.835
09.01.2016	287.920	288.005	288.089	288.174	288.259	288.344	288.429	288.514	288.599	288.684	288.769	288.854
10.01.2016	288.939	289.024	289.109	289.194	289.279	289.364	289.449	289.534	289.619	289.704	289.789	289.874
11.01.2016	289.958	290.043	290.128	290.213	290.298	290.383	290.468	290.553	290.638	290.723	290.808	290.893
12.01.2016	290.978	291.063	291.148	291.233	291.318	291.403	291.487	291.572	291.657	291.742	291.827	291.912
13.01.2016	291.997	292.082	292.167	292.252	292.337	292.422	292.507	292.592	292.677	292.762	292.847	292.932
14.01.2016	293.016	293.101	293.186	293.271	293.356	293.441	293.526	293.611	293.696	293.781	293.866	293.951
15.01.2016	294.035	294.120	294.205	294.290	294.375	294.459	294.544	294.629	294.714	294.799	294.884	294.969
16.01.2016	295.054	295.139	295.223	295.308	295.393	295.478	295.563	295.648	295.733	295.818	295.903	295.988
17.01.2016	296.072	296.157	296.242	296.327	296.412	296.497	296.581	296.666	296.751	296.836	296.921	297.006
18.01.2016	297.090	297.175	297.260	297.345	297.430	297.515	297.600	297.684	297.769	297.854	297.939	298.024
19.01.2016	298.109	298.193	298.278	298.363	298.448	298.533	298.618	298.702	298.787	298.872	298.957	299.042
20.01.2016	299.126	299.211	299.296	299.381	299.466	299.550	299.635	299.720	299.805	299.890	299.974	300.059
21.01.2016	300.144	300.229	300.314	300.398	300.483	300.568	300.653	300.737	300.822	300.907	300.992	301.077
22.01.2016	301.161	301.246	301.331	301.416	301.501	301.585	301.670	301.755	301.839	301.924	302.009	302.094
23.01.2016	302.179	302.263	302.348	302.433	302.518	302.602	302.687	302.772	302.856	302.941	303.026	303.111
24.01.2016	303.195	303.280	303.365	303.450	303.534	303.619	303.704	303.789	303.873	303.958	304.043	304.127
25.01.2016	304.212	304.297	304.382	304.466	304.551	304.636	304.720	304.805	304.890	304.975	305.059	305.144
26.01.2016	305.229	305.313	305.398	305.483	305.567	305.652	305.737	305.822	305.906	305.991	306.076	306.160
27.01.2016	306.245	306.330	306.414	306.499	306.584	306.668	306.753	306.838	306.922	307.007	307.092	307.176
28.01.2016	307.261	307.346	307.430	307.515	307.600	307.684	307.769	307.854	307.938	308.023	308.108	308.192
29.01.2016	308.277	308.362	308.446	308.531	308.616	308.700	308.785	308.870	308.954	309.039	309.124	309.208
30.01.2016	309.293	309.377	309.462	309.547	309.631	309.716	309.801	309.885	309.970	310.054	310.139	310.224
31.01.2016	310.308	310.393	310.478	310.562	310.647	310.731	310.816	310.901	310.985	311.070	311.155	311.239
01.02.2016	311.324	311.408	311.493	311.578	311.662	311.747	311.831	311.916	312.001	312.085	312.170	312.254
02.02.2016	312.339	312.423	312.508	312.593	312.677	312.762	312.846	312.931	313.016	313.100	313.185	313.269
03.02.2016	313.354	313.438	313.523	313.608	313.692	313.777	313.861	313.946	314.030	314.115	314.199	314.284
04.02.2016	314.369	314.453	314.538	314.622	314.707	314.791	314.876	314.960	315.045	315.129	315.214	315.299
05.02.2016	315.383	315.468	315.552	315.637	315.721	315.806	315.890	315.975	316.059	316.144	316.228	316.313
06.02.2016	316.397	316.482	316.566	316.651	316.735	316.820	316.904	316.989	317.073	317.158	317.242	317.327
07.02.2016	317.411	317.496	317.580	317.665	317.749	317.834	317.918	318.003	318.087	318.171	318.256	318.340
08.02.2016	318.425	318.509	318.594	318.678	318.763	318.847	318.932	319.016	319.100	319.185	319.269	319.354
09.02.2016	319.438	319.523	319.607	319.691	319.776	319.860	319.945	320.029	320.113	320.198	320.282	320.367
10.02.2016	320.451	320.535	320.620	320.704	320.789	320.873	320.957	321.042	321.126	321.210	321.295	321.379
11.02.2016	321.464	321.548	321.632	321.717	321.801	321.885	321.970	322.054	322.138	322.223	322.307	322.391
12.02.2016	322.476	322.560	322.644	322.729	322.813	322.897	322.982	323.066	323.150	323.234	323.319	323.403
13.02.2016	323.487	323.572	323.656	323.740	323.824	323.909	323.993	324.077	324.162	324.246	324.330	324.414
14.02.2016	324.499	324.583	324.667	324.751	324.836	324.920	325.004	325.088	325.172	325.257	325.341	325.425
15.02.2016	325.509	325.594	325.678	325.762	325.846	325.930	326.015	326.099	326.183	326.267	326.351	326.435
16.02.2016	326.520	326.604	326.688	326.772	326.856	326.940	327.025	327.109	327.193	327.277	327.361	327.445
17.02.2016	327.529	327.614	327.698	327.782	327.866	327.950	328.034	328.118	328.202	328.286	328.371	328.455
18.02.2016	328.539	328.623	328.707	328.791	328.875	328.959	329.043	329.127	329.211	329.295	329.379	329.463
19.02.2016	329.547	329.632	329.716	329.800	329.884	329.968	330.052	330.136	330.220	330.304	330.388	330.472
20.02.2016	330.556	330.640	330.724	330.808	330.892	330.976	331.060	331.144	331.228	331.312	331.396	331.480
21.02.2016	331.564	331.648	331.732	331.816	331.900	331.983	332.067	332.151	332.235	332.319	332.403	332.487
22.02.2016	332.571	332.655	332.739	332.823	332.907	332.991	333.075	333.158	333.242	333.326	333.410	333.494
23.02.2016	333.578	333.662	333.746	333.830	333.913	333.997	334.081	334.165	334.249	334.333	334.417	334.501
24.02.2016	334.584	334.668	334.752	334.836	334.920	335.004	335.087	335.171	335.255	335.339	335.423	335.507
25.02.2016	335.590	335.674	335.758	335.842	335.926	336.009	336.093	336.177	336.261	336.345	336.428	336.512
26.02.2016	336.596	336.680	336.764	336.847	336.931	337.015	337.099	337.182	337.266	337.350	337.434	337.517
27.02.2016	337.601	337.685	337.769	337.852	337.936	338.020	338.104	338.187	338.271	338.355	338.438	338.522
28.02.2016	338.606	338.690	338.773	338.857	338.941	339.024	339.108	339.192	339.276	339.359	339.443	339.527
29.02.2016	339.610	339.694	339.778	339.861	339.945	340.029	340.112	340.196	340.280	340.363	340.447	340.531

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01.03.2016	340.614	340.698	340.781	340.865	340.949	341.032	341.116	341.200	341.283	341.367	341.450	341.534
02.03.2016	341.618	341.701	341.785	341.869	341.952	342.036	342.119	342.203	342.286	342.370	342.454	342.537
03.03.2016	342.621	342.704	342.788	342.872	342.955	343.039	343.122	343.206	343.289	343.373	343.456	343.540
04.03.2016	343.623	343.707	343.791	343.874	343.958	344.041	344.125	344.208	344.292	344.375	344.459	344.542
05.03.2016	344.626	344.709	344.793	344.876	344.960	345.043	345.127	345.210	345.294	345.377	345.461	345.544
06.03.2016	345.628	345.711	345.794	345.878	345.961	346.045	346.128	346.212	346.295	346.379	346.462	346.545
07.03.2016	346.629	346.712	346.796	346.879	346.962	347.046	347.129	347.213	347.296	347.379	347.463	347.546
08.03.2016	347.630	347.713	347.796	347.880	347.963	348.046	348.130	348.213	348.297	348.380	348.463	348.547
09.03.2016	348.630	348.713	348.797	348.880	348.963	349.047	349.130	349.213	349.297	349.380	349.463	349.546
10.03.2016	349.630	349.713	349.796	349.880	349.963	350.046	350.129	350.213	350.296	350.379	350.462	350.546
11.03.2016	350.629	350.712	350.795	350.879	350.962	351.045	351.128	351.212	351.295	351.378	351.461	351.544
12.03.2016	351.628	351.711	351.794	351.877	351.960	352.044	352.127	352.210	352.293	352.376	352.459	352.543
13.03.2016	352.626	352.709	352.792	352.875	352.958	353.041	353.124	353.208	353.291	353.374	353.457	353.540
14.03.2016	353.623	353.706	353.789	353.872	353.955	354.039	354.122	354.205	354.288	354.371	354.454	354.537
15.03.2016	354.620	354.703	354.786	354.869	354.952	355.035	355.118	355.201	355.284	355.367	355.450	355.533
16.03.2016	355.616	355.699	355.782	355.865	355.948	356.031	356.114	356.197	356.280	356.363	356.446	356.529
17.03.2016	356.612	356.695	356.778	356.861	356.944	357.027	357.109	357.192	357.275	357.358	357.441	357.524
18.03.2016	357.607	357.690	357.772	357.855	357.938	358.021	358.104	358.187	358.270	358.352	358.435	358.518
19.03.2016	358.601	358.684	358.767	358.849	358.932	359.015	359.098	359.181	359.264	359.346	359.429	359.512
20.03.2016	359.595	359.677	359.760	359.843	359.926	0.009	0.091	0.174	0.257	0.340	0.422	0.505
21.03.2016	0.588	0.670	0.753	0.836	0.919	1.001	1.084	1.167	1.249	1.332	1.415	1.498
22.03.2016	1.580	1.663	1.746	1.828	1.911	1.994	2.076	2.159	2.242	2.324	2.407	2.489
23.03.2016	2.572	2.655	2.737	2.820	2.903	2.985	3.068	3.150	3.233	3.316	3.398	3.481
24.03.2016	3.563	3.646	3.729	3.811	3.894	3.976	4.059	4.141	4.224	4.307	4.389	4.472
25.03.2016	4.554	4.637	4.719	4.802	4.884	4.967	5.049	5.132	5.214	5.297	5.379	5.462
26.03.2016	5.544	5.627	5.709	5.792	5.874	5.957	6.039	6.122	6.204	6.287	6.369	6.452
27.03.2016	6.534	6.617	6.699	6.781	6.864	6.946	7.029	7.111	7.194	7.276	7.358	7.441
28.03.2016	7.523	7.606	7.688	7.771	7.853	7.935	8.018	8.100	8.182	8.265	8.347	8.430
29.03.2016	8.512	8.594	8.677	8.759	8.841	8.924	9.006	9.088	9.171	9.253	9.335	9.418
30.03.2016	9.500	9.582	9.665	9.747	9.829	9.912	9.994	10.076	10.159	10.241	10.323	10.406
31.03.2016	10.488	10.570	10.652	10.735	10.817	10.899	10.982	11.064	11.146	11.228	11.311	11.393
01.04.2016	11.475	11.557	11.640	11.722	11.804	11.886	11.968	12.051	12.133	12.215	12.297	12.380
02.04.2016	12.462	12.544	12.626	12.708	12.791	12.873	12.955	13.037	13.119	13.202	13.284	13.366
03.04.2016	13.448	13.530	13.612	13.694	13.777	13.859	13.941	14.023	14.105	14.187	14.269	14.352
04.04.2016	14.434	14.516	14.598	14.680	14.762	14.844	14.926	15.008	15.091	15.173	15.255	15.337
05.04.2016	15.419	15.501	15.583	15.665	15.747	15.829	15.911	15.993	16.075	16.157	16.240	16.322
06.04.2016	16.404	16.486	16.568	16.650	16.732	16.814	16.896	16.978	17.060	17.142	17.224	17.306
07.04.2016	17.388	17.470	17.552	17.634	17.716	17.798	17.880	17.962	18.044	18.125	18.207	18.289
08.04.2016	18.371	18.453	18.535	18.617	18.699	18.781	18.863	18.945	19.027	19.109	19.191	19.272
09.04.2016	19.354	19.436	19.518	19.600	19.682	19.764	19.846	19.927	20.009	20.091	20.173	20.255
10.04.2016	20.337	20.419	20.500	20.582	20.664	20.746	20.828	20.910	20.991	21.073	21.155	21.237
11.04.2016	21.319	21.400	21.482	21.564	21.646	21.727	21.809	21.891	21.973	22.054	22.136	22.218
12.04.2016	22.300	22.381	22.463	22.545	22.627	22.708	22.790	22.872	22.953	23.035	23.117	23.199
13.04.2016	23.280	23.362	23.444	23.525	23.607	23.689	23.770	23.852	23.934	24.015	24.097	24.179
14.04.2016	24.260	24.342	24.423	24.505	24.587	24.668	24.750	24.832	24.913	24.995	25.076	25.158
15.04.2016	25.240	25.321	25.403	25.484	25.566	25.647	25.729	25.810	25.892	25.974	26.055	26.137
16.04.2016	26.218	26.300	26.381	26.463	26.544	26.626	26.707	26.789	26.870	26.952	27.033	27.115
17.04.2016	27.196	27.278	27.359	27.441	27.522	27.604	27.685	27.766	27.848	27.929	28.011	28.092
18.04.2016	28.174	28.255	28.336	28.418	28.499	28.581	28.662	28.744	28.825	28.906	28.988	29.069
19.04.2016	29.150	29.232	29.313	29.395	29.476	29.557	29.639	29.720	29.801	29.883	29.964	30.045
20.04.2016	30.127	30.208	30.289	30.371	30.452	30.533	30.615	30.696	30.777	30.859	30.940	31.021
21.04.2016	31.102	31.184	31.265	31.346	31.427	31.509	31.590	31.671	31.753	31.834	31.915	31.996
22.04.2016	32.078	32.159	32.240	32.321	32.402	32.484	32.565	32.646	32.727	32.808	32.890	32.971
23.04.2016	33.052	33.133	33.214	33.296	33.377	33.458	33.539	33.620	33.702	33.783	33.864	33.945
24.04.2016	34.026	34.107	34.188	34.270	34.351	34.432	34.513	34.594	34.675	34.756	34.838	34.919
25.04.2016	35.000	35.081	35.162	35.243	35.324	35.405	35.486	35.567	35.649	35.730	35.811	35.892
26.04.2016	35.973	36.054	36.135	36.216	36.297	36.378	36.459	36.540	36.621	36.702	36.784	36.865
27.04.2016	36.946	37.027	37.108	37.189	37.270	37.351	37.432	37.513	37.594	37.675	37.756	37.837
28.04.2016	37.918	37.999	38.080	38.161	38.242	38.323	38.404	38.485	38.566	38.647	38.728	38.809
29.04.2016	38.890	38.971	39.052	39.133	39.213	39.294	39.375	39.456	39.537	39.618	39.699	39.780
30.04.2016	39.861	39.942	40.023	40.104	40.185	40.266	40.347	40.427	40.508	40.589	40.670	40.751
01.05.2016	40.832	40.913	40.994	41.075	41.156	41.236	41.317	41.398	41.479	41.560	41.641	41.722
02.05.2016	41.803	41.883	41.964	42.045	42.126	42.207	42.288	42.369	42.449	42.530	42.611	42.692
03.05.2016	42.773	42.854	42.934	43.015	43.096	43.177	43.258	43.338	43.419	43.500	43.581	43.662
04.05.2016	43.742	43.823	43.904	43.985	44.066	44.146	44.227	44.308	44.389	44.469	44.550	44.631
05.05.2016	44.712	44.793	44.873	44.954	45.035	45.115	45.196	45.277	45.358	45.438	45.519	45.600
06.05.2016	45.681	45.761	45.842	45.923	46.003	46.084	46.165	46.246	46.326	46.407	46.488	46.568
07.05.2016	46.649	46.730	46.810	46.891	46.972	47.052	47.133	47.214	47.294	47.375	47.456	47.536

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08.05.2016	47.617	47.698	47.778	47.859	47.939	48.020	48.101	48.181	48.262	48.343	48.423	48.504
09.05.2016	48.584	48.665	48.746	48.826	48.907	48.987	49.068	49.149	49.229	49.310	49.390	49.471
10.05.2016	49.551	49.632	49.713	49.793	49.874	49.954	50.035	50.115	50.196	50.276	50.357	50.437
11.05.2016	50.518	50.598	50.679	50.759	50.840	50.920	51.001	51.081	51.162	51.242	51.323	51.403
12.05.2016	51.484	51.564	51.645	51.725	51.806	51.886	51.967	52.047	52.128	52.208	52.288	52.369
13.05.2016	52.449	52.530	52.610	52.691	52.771	52.851	52.932	53.012	53.093	53.173	53.254	53.334
14.05.2016	53.414	53.495	53.575	53.655	53.736	53.816	53.897	53.977	54.057	54.138	54.218	54.298
15.05.2016	54.379	54.459	54.539	54.620	54.700	54.781	54.861	54.941	55.022	55.102	55.182	55.262
16.05.2016	55.343	55.423	55.503	55.584	55.664	55.744	55.825	55.905	55.985	56.065	56.146	56.226
17.05.2016	56.306	56.387	56.467	56.547	56.627	56.708	56.788	56.868	56.948	57.029	57.109	57.189
18.05.2016	57.269	57.350	57.430	57.510	57.590	57.670	57.751	57.831	57.911	57.991	58.072	58.152
19.05.2016	58.232	58.312	58.392	58.472	58.553	58.633	58.713	58.793	58.873	58.954	59.034	59.114
20.05.2016	59.194	59.274	59.354	59.435	59.515	59.595	59.675	59.755	59.835	59.915	59.996	60.076
21.05.2016	60.156	60.236	60.316	60.396	60.476	60.556	60.637	60.717	60.797	60.877	60.957	61.037
22.05.2016	61.117	61.197	61.277	61.357	61.438	61.518	61.598	61.678	61.758	61.838	61.918	61.998
23.05.2016	62.078	62.158	62.238	62.318	62.398	62.479	62.559	62.639	62.719	62.799	62.879	62.959
24.05.2016	63.039	63.119	63.199	63.279	63.359	63.439	63.519	63.599	63.679	63.759	63.839	63.919
25.05.2016	63.999	64.079	64.159	64.239	64.319	64.399	64.479	64.559	64.639	64.719	64.799	64.879
26.05.2016	64.959	65.039	65.119	65.199	65.279	65.359	65.439	65.519	65.599	65.679	65.759	65.839
27.05.2016	65.919	65.999	66.079	66.159	66.239	66.319	66.399	66.479	66.559	66.639	66.719	66.799
28.05.2016	66.879	66.959	67.039	67.119	67.199	67.278	67.358	67.438	67.518	67.598	67.678	67.758
29.05.2016	67.838	67.918	67.998	68.078	68.158	68.238	68.318	68.398	68.477	68.557	68.637	68.717
30.05.2016	68.797	68.877	68.957	69.037	69.117	69.197	69.277	69.357	69.436	69.516	69.596	69.676
31.05.2016	69.756	69.836	69.916	69.996	70.076	70.155	70.235	70.315	70.395	70.475	70.555	70.635
01.06.2016	70.715	70.795	70.874	70.954	71.034	71.114	71.194	71.274	71.354	71.433	71.513	71.593
02.06.2016	71.673	71.753	71.833	71.913	71.992	72.072	72.152	72.232	72.312	72.392	72.472	72.551
03.06.2016	72.631	72.711	72.791	72.871	72.951	73.030	73.110	73.190	73.270	73.350	73.430	73.509
04.06.2016	73.589	73.669	73.749	73.829	73.908	73.988	74.068	74.148	74.228	74.307	74.387	74.467
05.06.2016	74.547	74.627	74.706	74.786	74.866	74.946	75.026	75.105	75.185	75.265	75.345	75.425
06.06.2016	75.504	75.584	75.664	75.744	75.823	75.903	75.983	76.063	76.142	76.222	76.302	76.382
07.06.2016	76.462	76.541	76.621	76.701	76.781	76.860	76.940	77.020	77.099	77.179	77.259	77.339
08.06.2016	77.418	77.498	77.578	77.658	77.737	77.817	77.897	77.976	78.056	78.136	78.216	78.295
09.06.2016	78.375	78.455	78.534	78.614	78.694	78.774	78.853	78.933	79.013	79.092	79.172	79.252
10.06.2016	79.331	79.411	79.491	79.570	79.650	79.730	79.809	79.889	79.969	80.048	80.128	80.208
11.06.2016	80.287	80.367	80.447	80.526	80.606	80.686	80.765	80.845	80.925	81.004	81.084	81.164
12.06.2016	81.243	81.323	81.403	81.482	81.562	81.641	81.721	81.801	81.880	81.960	82.040	82.119
13.06.2016	82.199	82.278	82.358	82.438	82.517	82.597	82.676	82.756	82.836	82.915	82.995	83.074
14.06.2016	83.154	83.234	83.313	83.393	83.472	83.552	83.631	83.711	83.791	83.870	83.950	84.029
15.06.2016	84.109	84.189	84.268	84.348	84.427	84.507	84.586	84.666	84.745	84.825	84.905	84.984
16.06.2016	85.064	85.143	85.223	85.302	85.382	85.461	85.541	85.620	85.700	85.780	85.859	85.939
17.06.2016	86.018	86.098	86.177	86.257	86.336	86.416	86.495	86.575	86.654	86.734	86.813	86.893
18.06.2016	86.972	87.052	87.131	87.211	87.290	87.370	87.450	87.529	87.609	87.688	87.768	87.847
19.06.2016	87.927	88.006	88.086	88.165	88.245	88.324	88.404	88.483	88.563	88.642	88.721	88.801
20.06.2016	88.880	88.960	89.039	89.119	89.198	89.278	89.357	89.437	89.516	89.596	89.675	89.755
21.06.2016	89.834	89.914	89.993	90.073	90.152	90.232	90.311	90.391	90.470	90.550	90.629	90.709
22.06.2016	90.788	90.867	90.947	91.026	91.106	91.185	91.265	91.344	91.424	91.503	91.583	91.662
23.06.2016	91.742	91.821	91.901	91.980	92.059	92.139	92.218	92.298	92.377	92.457	92.536	92.616
24.06.2016	92.695	92.775	92.854	92.934	93.013	93.092	93.172	93.251	93.331	93.410	93.490	93.569
25.06.2016	93.649	93.728	93.808	93.887	93.967	94.046	94.125	94.205	94.284	94.364	94.443	94.523
26.06.2016	94.602	94.682	94.761	94.841	94.920	95.000	95.079	95.158	95.238	95.317	95.397	95.476
27.06.2016	95.556	95.635	95.715	95.794	95.874	95.953	96.032	96.112	96.191	96.271	96.350	96.430
28.06.2016	96.509	96.589	96.668	96.748	96.827	96.907	96.986	97.066	97.145	97.224	97.304	97.383
29.06.2016	97.463	97.542	97.622	97.701	97.781	97.860	97.940	98.019	98.098	98.178	98.257	98.337
30.06.2016	98.416	98.496	98.575	98.655	98.734	98.814	98.893	98.973	99.052	99.132	99.211	99.290
01.07.2016	99.370	99.449	99.529	99.608	99.688	99.767	99.847	99.926	100.006	100.085	100.165	100.244
02.07.2016	100.324	100.403	100.483	100.562	100.641	100.721	100.800	100.880	100.959	101.039	101.118	101.198
03.07.2016	101.277	101.357	101.436	101.516	101.595	101.675	101.754	101.834	101.913	101.992	102.072	102.151
04.07.2016	102.231	102.310	102.390	102.469	102.549	102.628	102.708	102.787	102.867	102.946	103.026	103.105
05.07.2016	103.185	103.264	103.343	103.423	103.502	103.582	103.661	103.741	103.820	103.900	103.979	104.059
06.07.2016	104.138	104.218	104.297	104.377	104.456	104.536	104.615	104.694	104.774	104.853	104.933	105.012
07.07.2016	105.092	105.171	105.251	105.330	105.410	105.489	105.569	105.648	105.728	105.807	105.887	105.966
08.07.2016	106.045	106.125	106.204	106.284	106.363	106.443	106.522	106.602	106.681	106.761	106.840	106.920
09.07.2016	106.999	107.079	107.158	107.238	107.317	107.396	107.476	107.555	107.635	107.714	107.794	107.873
10.07.2016	107.953	108.032	108.112	108.191	108.271	108.350	108.429	108.509	108.588	108.668	108.747	108.827
11.07.2016	108.906	108.986	109.065	109.145	109.224	109.304	109.383	109.463	109.542	109.621	109.701	109.780
12.07.2016	109.860	109.939	110.019	110.098	110.178	110.257	110.337	110.416	110.496	110.575	110.654	110.734
13.07.2016	110.813	110.893	110.972	111.052	111.131	111.211	111.290	111.370	111.449	111.528	111.608	111.687
14.07.2016	111.767	111.846	111.926	112.005	112.085	112.164	112.244	112.323	112.403	112.482	112.561	112.641

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15.07.2016	112.720	112.800	112.879	112.959	113.038	113.118	113.197	113.277	113.356	113.436	113.515	113.595
16.07.2016	113.674	113.753	113.833	113.912	113.992	114.071	114.151	114.230	114.310	114.389	114.469	114.548
17.07.2016	114.628	114.707	114.787	114.866	114.945	115.025	115.104	115.184	115.263	115.343	115.422	115.502
18.07.2016	115.581	115.661	115.740	115.820	115.899	115.979	116.058	116.138	116.217	116.297	116.376	116.456
19.07.2016	116.535	116.614	116.694	116.773	116.853	116.932	117.012	117.091	117.171	117.250	117.330	117.409
20.07.2016	117.489	117.568	117.648	117.727	117.807	117.886	117.966	118.045	118.125	118.204	118.284	118.363
21.07.2016	118.443	118.522	118.602	118.681	118.761	118.840	118.920	119.000	119.079	119.159	119.238	119.318
22.07.2016	119.397	119.477	119.556	119.636	119.715	119.795	119.874	119.954	120.033	120.113	120.192	120.272
23.07.2016	120.351	120.431	120.511	120.590	120.670	120.749	120.829	120.908	120.988	121.067	121.147	121.227
24.07.2016	121.306	121.386	121.465	121.545	121.624	121.704	121.783	121.863	121.943	122.022	122.102	122.181
25.07.2016	122.261	122.341	122.420	122.500	122.579	122.659	122.738	122.818	122.898	122.977	123.057	123.136
26.07.2016	123.216	123.296	123.375	123.455	123.534	123.614	123.694	123.773	123.853	123.933	124.012	124.092
27.07.2016	124.171	124.251	124.331	124.410	124.490	124.570	124.649	124.729	124.808	124.888	124.968	125.047
28.07.2016	125.127	125.207	125.286	125.366	125.446	125.525	125.605	125.685	125.764	125.844	125.924	126.003
29.07.2016	126.083	126.163	126.242	126.322	126.402	126.481	126.561	126.641	126.720	126.800	126.880	126.959
30.07.2016	127.039	127.119	127.199	127.278	127.358	127.438	127.517	127.597	127.677	127.756	127.836	127.916
31.07.2016	127.976	128.055	128.135	128.215	128.295	128.375	128.454	128.534	128.613	128.693	128.773	128.853
01.08.2016	128.952	129.032	129.112	129.192	129.271	129.351	129.431	129.511	129.590	129.670	129.750	129.830
02.08.2016	129.909	129.989	130.069	130.149	130.229	130.308	130.388	130.468	130.548	130.627	130.707	130.787
03.08.2016	130.867	130.947	131.026	131.106	131.186	131.266	131.346	131.425	131.505	131.585	131.665	131.745
04.08.2016	131.824	131.904	131.984	132.064	132.144	132.223	132.303	132.383	132.463	132.543	132.623	132.702
05.08.2016	132.782	132.862	132.942	133.022	133.102	133.181	133.261	133.341	133.421	133.501	133.581	133.660
06.08.2016	133.740	133.820	133.900	133.980	134.060	134.140	134.219	134.299	134.379	134.459	134.539	134.619
07.08.2016	134.699	134.778	134.858	134.938	135.018	135.098	135.178	135.258	135.338	135.418	135.497	135.577
08.08.2016	135.657	135.737	135.817	135.897	135.977	136.057	136.137	136.216	136.296	136.376	136.456	136.536
09.08.2016	136.616	136.696	136.776	136.856	136.936	137.016	137.095	137.175	137.255	137.335	137.415	137.495
10.08.2016	137.575	137.655	137.735	137.815	137.895	137.975	138.055	138.134	138.214	138.294	138.374	138.454
11.08.2016	138.534	138.614	138.694	138.774	138.854	138.934	139.014	139.094	139.174	139.254	139.334	139.414
12.08.2016	139.494	139.574	139.654	139.734	139.814	139.894	139.973	140.053	140.133	140.213	140.293	140.373
13.08.2016	140.453	140.533	140.613	140.693	140.773	140.853	140.933	141.013	141.093	141.173	141.253	141.333
14.08.2016	141.413	141.493	141.573	141.653	141.733	141.813	141.893	141.973	142.053	142.134	142.214	142.294
15.08.2016	142.374	142.454	142.534	142.614	142.694	142.774	142.854	142.934	143.014	143.094	143.174	143.254
16.08.2016	143.334	143.414	143.494	143.574	143.654	143.734	143.815	143.895	143.975	144.055	144.135	144.215
17.08.2016	144.295	144.375	144.455	144.535	144.615	144.695	144.776	144.856	144.936	145.016	145.096	145.176
18.08.2016	145.256	145.336	145.416	145.497	145.577	145.657	145.737	145.817	145.897	145.977	146.058	146.138
19.08.2016	146.218	146.298	146.378	146.458	146.538	146.619	146.699	146.779	146.859	146.939	147.019	147.100
20.08.2016	147.180	147.260	147.340	147.420	147.501	147.581	147.661	147.741	147.821	147.902	147.982	148.062
21.08.2016	148.142	148.222	148.303	148.383	148.463	148.543	148.624	148.704	148.784	148.864	148.944	149.025
22.08.2016	149.105	149.185	149.266	149.346	149.426	149.506	149.587	149.667	149.747	149.827	149.908	149.988
23.08.2016	150.068	150.149	150.229	150.309	150.389	150.470	150.550	150.630	150.711	150.791	150.871	150.952
24.08.2016	151.032	151.112	151.193	151.273	151.353	151.434	151.514	151.594	151.675	151.755	151.836	151.916
25.08.2016	151.996	152.077	152.157	152.237	152.318	152.398	152.479	152.559	152.639	152.720	152.800	152.881
26.08.2016	152.961	153.041	153.122	153.202	153.283	153.363	153.444	153.524	153.604	153.685	153.765	153.846
27.08.2016	153.926	154.007	154.087	154.168	154.248	154.329	154.409	154.489	154.570	154.650	154.731	154.811
28.08.2016	154.892	154.972	155.053	155.133	155.214	155.294	155.375	155.456	155.536	155.617	155.697	155.778
29.08.2016	155.858	155.939	156.019	156.100	156.180	156.261	156.341	156.422	156.503	156.583	156.664	156.744
30.08.2016	156.825	156.906	156.986	157.067	157.147	157.228	157.308	157.389	157.470	157.550	157.631	157.712
31.08.2016	157.792	157.873	157.953	158.034	158.115	158.195	158.276	158.357	158.437	158.518	158.599	158.679
01.09.2016	158.760	158.841	158.921	159.002	159.083	159.163	159.244	159.325	159.405	159.486	159.567	159.647
02.09.2016	159.728	159.809	159.889	159.970	160.051	160.132	160.212	160.293	160.374	160.455	160.535	160.616
03.09.2016	160.697	160.777	160.858	160.939	161.020	161.100	161.181	161.262	161.343	161.423	161.504	161.585
04.09.2016	161.666	161.747	161.827	161.908	161.989	162.070	162.151	162.231	162.312	162.393	162.474	162.555
05.09.2016	162.635	162.716	162.797	162.878	162.959	163.039	163.120	163.201	163.282	163.363	163.444	163.524
06.09.2016	163.605	163.686	163.767	163.848	163.929	164.010	164.090	164.171	164.252	164.333	164.414	164.495
07.09.2016	164.576	164.657	164.737	164.818	164.899	164.980	165.061	165.142	165.223	165.304	165.385	165.466
08.09.2016	165.546	165.627	165.708	165.789	165.870	165.951	166.032	166.113	166.194	166.275	166.356	166.437
09.09.2016	166.518	166.599	166.680	166.761	166.842	166.922	167.003	167.084	167.165	167.246	167.327	167.408
10.09.2016	167.489	167.570	167.651	167.732	167.813	167.894	167.975	168.056	168.137	168.218	168.299	168.380
11.09.2016	168.461	168.542	168.623	168.704	168.785	168.867	168.948	169.029	169.110	169.191	169.272	169.353
12.09.2016	169.434	169.515	169.596	169.677	169.758	169.839	169.920	170.001	170.082	170.164	170.245	170.326
13.09.2016	170.407	170.488	170.569	170.650	170.731	170.812	170.893	170.975	171.056	171.137	171.218	171.299
14.09.2016	171.380	171.461	171.542	171.624	171.705	171.786	171.867	171.948	172.029	172.111	172.192	172.273
15.09.2016	172.354	172.435	172.516	172.598	172.679	172.760	172.841	172.922	173.004	173.085	173.166	173.247
16.09.2016	173.328	173.410	173.491	173.572	173.653	173.735	173.816	173.897	173.978	174.059	174.141	174.222
17.09.2016	174.303	174.385	174.466	174.547	174.628	174.710	174.791	174.872	174.953	175.035	175.116	175.197
18.09.2016	175.279	175.360	175.441	175.523	175.604	175.685	175.767	175.848	175.929	176.011	176.092	176.173
19.09.2016	176.255	176.336	176.417	176.499	176.580	176.661	176.743	176.824	176.906	176.987	177.068	177.150
20.09.2016	177.231	177.313	177.394	177.475	177.557	177.638	177.720	177.801	177.882	177.964	178.045	178.127

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21.09.2016	178.208	178.290	178.371	178.453	178.534	178.616	178.697	178.779	178.860	178.942	179.023	179.104
22.09.2016	179.186	179.268	179.349	179.431	179.512	179.594	179.675	179.757	179.838	179.920	180.001	180.083
23.09.2016	180.164	180.246	180.327	180.409	180.491	180.572	180.654	180.735	180.817	180.899	180.980	181.062
24.09.2016	181.143	181.225	181.307	181.388	181.470	181.551	181.633	181.715	181.796	181.878	181.960	182.041
25.09.2016	182.123	182.205	182.286	182.368	182.450	182.531	182.613	182.695	182.776	182.858	182.940	183.021
26.09.2016	183.103	183.185	183.267	183.348	183.430	183.512	183.594	183.675	183.757	183.839	183.921	184.002
27.09.2016	184.084	184.166	184.248	184.329	184.411	184.493	184.575	184.657	184.738	184.820	184.902	184.984
28.09.2016	185.066	185.147	185.229	185.311	185.393	185.475	185.557	185.638	185.720	185.802	185.884	185.966
29.09.2016	186.048	186.130	186.211	186.293	186.375	186.457	186.539	186.621	186.703	186.785	186.867	186.948
30.09.2016	187.030	187.112	187.194	187.276	187.358	187.440	187.522	187.604	187.686	187.768	187.850	187.932
01.10.2016	188.014	188.096	188.178	188.260	188.342	188.423	188.505	188.587	188.669	188.751	188.833	188.915
02.10.2016	188.997	189.079	189.162	189.244	189.326	189.408	189.490	189.572	189.654	189.736	189.818	189.900
03.10.2016	189.982	190.064	190.146	190.228	190.310	190.392	190.474	190.556	190.638	190.721	190.803	190.885
04.10.2016	190.967	191.049	191.131	191.213	191.295	191.377	191.460	191.542	191.624	191.706	191.788	191.870
05.10.2016	191.952	192.034	192.117	192.199	192.281	192.363	192.445	192.527	192.610	192.692	192.774	192.856
06.10.2016	192.938	193.020	193.103	193.185	193.267	193.349	193.431	193.514	193.596	193.678	193.760	193.843
07.10.2016	193.925	194.007	194.089	194.171	194.254	194.336	194.418	194.500	194.583	194.665	194.747	194.830
08.10.2016	194.912	194.994	195.076	195.159	195.241	195.323	195.405	195.488	195.570	195.652	195.735	195.817
09.10.2016	195.899	195.982	196.064	196.146	196.229	196.311	196.393	196.475	196.558	196.640	196.723	196.805
10.10.2016	196.887	196.970	197.052	197.134	197.217	197.299	197.381	197.464	197.546	197.628	197.711	197.793
11.10.2016	197.876	197.958	198.040	198.123	198.205	198.288	198.370	198.452	198.535	198.617	198.700	198.782
12.10.2016	198.865	198.947	199.029	199.112	199.194	199.277	199.359	199.442	199.524	199.607	199.689	199.772
13.10.2016	199.854	199.936	200.019	200.101	200.184	200.266	200.349	200.431	200.514	200.596	200.679	200.761
14.10.2016	200.844	200.926	201.009	201.092	201.174	201.257	201.339	201.422	201.504	201.587	201.669	201.752
15.10.2016	201.834	201.917	202.000	202.082	202.165	202.247	202.330	202.413	202.495	202.578	202.660	202.743
16.10.2016	202.825	202.908	202.991	203.073	203.156	203.239	203.321	203.404	203.486	203.569	203.652	203.734
17.10.2016	203.817	203.900	203.982	204.065	204.148	204.230	204.313	204.396	204.478	204.561	204.644	204.727
18.10.2016	204.809	204.892	204.975	205.057	205.140	205.223	205.306	205.388	205.471	205.554	205.637	205.719
19.10.2016	205.802	205.885	205.968	206.050	206.133	206.216	206.299	206.381	206.464	206.547	206.630	206.713
20.10.2016	206.795	206.878	206.961	207.044	207.127	207.209	207.292	207.375	207.458	207.541	207.624	207.707
21.10.2016	207.789	207.872	207.955	208.038	208.121	208.204	208.287	208.369	208.452	208.535	208.618	208.701
22.10.2016	208.784	208.867	208.950	209.033	209.116	209.199	209.282	209.364	209.447	209.530	209.613	209.696
23.10.2016	209.779	209.862	209.945	210.028	210.111	210.194	210.277	210.360	210.443	210.526	210.609	210.692
24.10.2016	210.775	210.858	210.941	211.024	211.107	211.190	211.273	211.356	211.439	211.522	211.605	211.689
25.10.2016	211.772	211.855	211.938	212.021	212.104	212.187	212.270	212.353	212.436	212.519	212.602	212.686
26.10.2016	212.769	212.852	212.935	213.018	213.101	213.184	213.267	213.351	213.434	213.517	213.600	213.683
27.10.2016	213.766	213.850	213.933	214.016	214.099	214.182	214.266	214.349	214.432	214.515	214.598	214.682
28.10.2016	214.765	214.848	214.931	215.014	215.098	215.181	215.264	215.347	215.431	215.514	215.597	215.680
29.10.2016	215.764	215.847	215.930	216.013	216.097	216.180	216.263	216.347	216.430	216.513	216.597	216.680
30.10.2016	216.763	216.846	216.930	217.013	217.096	217.180	217.263	217.346	217.430	217.513	217.596	217.680
31.10.2016	217.763	217.847	217.930	218.013	218.097	218.180	218.263	218.347	218.430	218.514	218.597	218.680
01.11.2016	218.764	218.847	218.931	219.014	219.097	219.181	219.264	219.348	219.431	219.514	219.598	219.681
02.11.2016	219.765	219.848	219.932	220.015	220.099	220.182	220.265	220.349	220.432	220.516	220.599	220.683
03.11.2016	220.766	220.850	220.933	221.017	221.100	221.184	221.267	221.351	221.434	221.518	221.601	221.685
04.11.2016	221.768	221.852	221.935	222.019	222.102	222.186	222.269	222.353	222.437	222.520	222.604	222.687
05.11.2016	222.771	222.854	222.938	223.021	223.105	223.189	223.272	223.356	223.439	223.523	223.606	223.690
06.11.2016	223.774	223.857	223.941	224.024	224.108	224.192	224.275	224.359	224.442	224.526	224.610	224.693
07.11.2016	224.777	224.861	224.944	225.028	225.111	225.195	225.279	225.362	225.446	225.530	225.613	225.697
08.11.2016	225.781	225.864	225.948	226.032	226.115	226.199	226.283	226.366	226.450	226.534	226.617	226.701
09.11.2016	226.785	226.868	226.952	227.036	227.120	227.203	227.287	227.371	227.454	227.538	227.622	227.706
10.11.2016	227.789	227.873	227.957	228.041	228.124	228.208	228.292	228.376	228.459	228.543	228.627	228.711
11.11.2016	228.794	228.878	228.962	229.046	229.129	229.213	229.297	229.381	229.464	229.548	229.632	229.716
12.11.2016	229.800	229.883	229.967	230.051	230.135	230.219	230.302	230.386	230.470	230.554	230.638	230.722
13.11.2016	230.805	230.889	230.973	231.057	231.141	231.225	231.308	231.392	231.476	231.560	231.644	231.728
14.11.2016	231.812	231.896	231.979	232.063	232.147	232.231	232.315	232.399	232.483	232.567	232.650	232.734
15.11.2016	232.818	232.902	232.986	233.070	233.154	233.238	233.322	233.406	233.490	233.574	233.658	233.741
16.11.2016	233.825	233.909	233.993	234.077	234.161	234.245	234.329	234.413	234.497	234.581	234.665	234.749
17.11.2016	234.833	234.917	235.001	235.085	235.169	235.253	235.337	235.421	235.505	235.589	235.673	235.757
18.11.2016	235.841	235.925	236.009	236.093	236.177	236.261	236.345	236.429	236.513	236.597	236.681	236.766
19.11.2016	236.850	236.934	237.018	237.102	237.186	237.270	237.354	237.438	237.522	237.606	237.690	237.774
20.11.2016	237.859	237.943	238.027	238.111	238.195	238.279	238.363	238.447	238.532	238.616	238.700	238.784
21.11.2016	238.868	238.952	239.036	239.121	239.205	239.289	239.373	239.457	239.541	239.626	239.710	239.794
22.11.2016	239.878	239.962	240.046	240.131	240.215	240.299	240.383	240.467	240.552	240.636	240.720	240.804
23.11.2016	240.889	240.973	241.057	241.141	241.226	241.310	241.394	241.478	241.562	241.647	241.731	241.815
24.11.2016	241.900	241.984	242.068	242.152	242.237	242.321	242.405	242.489	242.574	242.658	242.742	242.827
25.11.2016	242.911	242.995	243.080	243.164	243.248	243.332	243.417	243.501	243.585	243.670	243.754	243.838
26.11.2016	243.923	244.007	244.091	244.176	244.260	244.345	244.429	244.513	244.598	244.682	244.766	244.851
27.11.2016	244.935	245.019	245.104	245.188	245.273	245.357	245.441	245.526	245.610	245.695	245.779	245.863

**Sonnen-Länge  $\lambda$  [°] 2016 (J2000)**

Datum / Zeit	00:00 UT	02:00 UT	04:00 UT	06:00 UT	08:00 UT	10:00 UT	12:00 UT	14:00 UT	16:00 UT	18:00 UT	20:00 UT	22:00 UT
28.11.2016	245.948	246.032	246.117	246.201	246.285	246.370	246.454	246.539	246.623	246.708	246.792	246.876
29.11.2016	246.961	247.045	247.130	247.214	247.299	247.383	247.468	247.552	247.636	247.721	247.805	247.890
30.11.2016	247.974	248.059	248.143	248.228	248.312	248.397	248.481	248.566	248.650	248.735	248.819	248.904
01.12.2016	248.988	249.073	249.157	249.241	249.326	249.410	249.495	249.580	249.664	249.749	249.833	249.918
02.12.2016	250.002	250.087	250.171	250.256	250.340	250.425	250.509	250.594	250.678	250.763	250.847	250.932
03.12.2016	251.016	251.101	251.185	251.270	251.355	251.439	251.524	251.608	251.693	251.777	251.862	251.946
04.12.2016	252.031	252.116	252.200	252.285	252.369	252.454	252.538	252.623	252.708	252.792	252.877	252.961
05.12.2016	253.046	253.130	253.215	253.300	253.384	253.469	253.553	253.638	253.723	253.807	253.892	253.976
06.12.2016	254.061	254.145	254.230	254.315	254.399	254.484	254.568	254.653	254.738	254.822	254.907	254.992
07.12.2016	255.076	255.161	255.245	255.330	255.415	255.499	255.584	255.668	255.753	255.838	255.922	256.007
08.12.2016	256.092	256.176	256.261	256.345	256.430	256.515	256.599	256.684	256.769	256.853	256.938	257.023
09.12.2016	257.107	257.192	257.277	257.361	257.446	257.530	257.615	257.700	257.784	257.869	257.954	258.038
10.12.2016	258.123	258.208	258.292	258.377	258.462	258.546	258.631	258.716	258.800	258.885	258.970	259.054
11.12.2016	259.139	259.224	259.308	259.393	259.478	259.562	259.647	259.732	259.817	259.901	259.986	260.071
12.12.2016	260.155	260.240	260.325	260.409	260.494	260.579	260.663	260.748	260.833	260.918	261.002	261.087
13.12.2016	261.172	261.256	261.341	261.426	261.510	261.595	261.680	261.765	261.849	261.934	262.019	262.104
14.12.2016	262.188	262.273	262.358	262.442	262.527	262.612	262.697	262.781	262.866	262.951	263.036	263.120
15.12.2016	263.205	263.290	263.375	263.459	263.544	263.629	263.714	263.798	263.883	263.968	264.053	264.137
16.12.2016	264.222	264.307	264.392	264.476	264.561	264.646	264.731	264.815	264.900	264.985	265.070	265.154
17.12.2016	265.239	265.324	265.409	265.494	265.578	265.663	265.748	265.833	265.918	266.002	266.087	266.172
18.12.2016	266.257	266.342	266.426	266.511	266.596	266.681	266.766	266.850	266.935	267.020	267.105	267.190
19.12.2016	267.274	267.359	267.444	267.529	267.614	267.699	267.783	267.868	267.953	268.038	268.123	268.207
20.12.2016	268.292	268.377	268.462	268.547	268.632	268.717	268.801	268.886	268.971	269.056	269.141	269.226
21.12.2016	269.310	269.395	269.480	269.565	269.650	269.735	269.820	269.904	269.989	270.074	270.159	270.244
22.12.2016	270.329	270.414	270.499	270.583	270.668	270.753	270.838	270.923	271.008	271.093	271.178	271.262
23.12.2016	271.347	271.432	271.517	271.602	271.687	271.772	271.857	271.942	272.027	272.111	272.196	272.281
24.12.2016	272.366	272.451	272.536	272.621	272.706	272.791	272.876	272.961	273.045	273.130	273.215	273.300
25.12.2016	273.385	273.470	273.555	273.640	273.725	273.810	273.895	273.980	274.064	274.149	274.234	274.319
26.12.2016	274.404	274.489	274.574	274.659	274.744	274.829	274.914	274.999	275.084	275.169	275.254	275.339
27.12.2016	275.423	275.508	275.593	275.678	275.763	275.848	275.933	276.018	276.103	276.188	276.273	276.358
28.12.2016	276.443	276.528	276.613	276.698	276.783	276.868	276.953	277.037	277.122	277.207	277.292	277.377
29.12.2016	277.462	277.547	277.632	277.717	277.802	277.887	277.972	278.057	278.142	278.227	278.312	278.397
30.12.2016	278.482	278.567	278.652	278.737	278.822	278.907	278.992	279.076	279.161	279.246	279.331	279.416
42735	279.501	279.586	279.671	279.756	279.841	279.926	280.011	280.096	280.181	280.266	280.351	280.436