

MIDNIGHT TO **SUNRISE** MINUTE AND DECIMAL PER DAY



1	361	.2506	421	.2923	481	.3340	541	.3756	601	.4173	661	.4590	1
2	362	.2513	422	.2930	482	.3347	542	.3763	602	.4180	662	.4597	2
3	363	.2520	423	.2937	483	.3354	543	.3770	603	.4187	663	.4604	3
4	364	.2527	424	.2944	484	.3361	544	.3777	604	.4194	664	.4611	4
5	365	.2534	425	.2951	485	.3368	545	.3784	605	.4201	665	.4618	5
6	366	.2541	426	.2958	486	.3374	546	.3791	606	.4208	666	.4624	6
7	367	.2548	427	.2965	487	.3381	547	.3798	607	.4215	667	.4631	7
8	368	.2555	428	.2972	488	.3388	548	.3805	608	.4222	668	.4638	8
9	369	.2562	429	.2979	489	.3395	549	.3812	609	.4229	669	.4645	9
10	370	.2569	430	.2986	490	.3402	550	.3819	610	.4236	670	.4652	10
11	371	.2576	431	.2993	491	.3409	551	.3826	611	.4243	671	.4659	11
12	372	.2583	432	.2999	492	.3416	552	.3833	612	.4249	672	.4666	12
13	373	.2590	433	.3006	493	.3423	553	.3840	613	.4256	673	.4673	13
14	374	.2597	434	.3013	494	.3430	554	.3847	614	.4263	674	.4680	14
15	375	6:15 .2604	435	7:15 .3020	495	8:15 .3437	555	9:15 .3854	615	10:15 .4270	675	11:15 .4687	15
16	376	.2611	436	.3027	496	.3444	556	.3861	616	.4277	676	.4694	16
17	377	.2618	437	.3034	497	.3451	557	.3868	617	.4284	677	.4701	17
18	378	.2624	438	.3041	498	.3458	558	.3874	618	.4291	678	.4708	18
19	379	.2631	439	.3048	499	.3465	559	.3881	619	.4298	679	.4715	19
20	380	.2638	440	.3055	500	.3472	560	.3888	620	.4305	680	.4722	20
21	381	.2645	441	.3062	501	.3479	561	.3895	621	.4312	681	.4729	21
22	382	.2652	442	.3069	502	.3486	562	.3902	622	.4319	682	.4736	22
23	383	.2659	443	.3076	503	.3493	563	.3909	623	.4326	683	.4743	23
24	384	.2666	444	.3083	504	.3499	564	.3916	624	.4333	684	.4749	24
25	385	.2673	445	.3090	505	.3506	565	.3923	625	.4340	685	.4756	25
26	386	.2680	446	.3097	506	.3513	566	.3930	626	.4347	686	.4763	26
27	387	.2687	447	.3104	507	.3520	567	.3937	627	.4354	687	.4770	27
28	388	.2694	448	.3111	508	.3527	568	.3944	628	.4361	688	.4777	28
29	389	.2701	449	.3118	509	.3534	569	.3951	629	.4368	689	.4784	29
30	390	6:30 .2708	450	7:30 .3124	510	8:30 .3541	570	9:30 .3958	630	10:30 .4374	690	11:30 .4791	30
31	391	.2715	451	.3131	511	.3548	571	.3965	631	.4381	691	.4798	31
32	392	.2722	452	.3138	512	.3555	572	.3972	632	.4388	692	.4805	32
33	393	.2729	453	.3145	513	.3562	573	.3979	633	.4395	693	.4812	33
34	394	.2736	454	.3152	514	.3569	574	.3986	634	.4402	694	.4819	34
35	395	.2743	455	.3159	515	.3576	575	.3993	635	.4409	695	.4826	35
36	396	.2749	456	.3166	516	.3583	576	.3999	636	.4416	696	.4833	36
37	397	.2756	457	.3173	517	.3590	577	.4006	637	.4423	697	.4840	37
38	398	.2763	458	.3180	518	.3597	578	.4013	638	.4430	698	.4847	38
39	399	.2770	459	.3187	519	.3604	579	.4020	639	.4437	699	.4854	39
40	400	.2777	460	.3194	520	.3611	580	.4027	640	.4444	700	.4861	40
41	401	.2784	461	.3201	521	.3618	581	.4034	641	.4451	701	.4868	41
42	402	.2791	462	.3208	522	.3624	582	.4041	642	.4458	702	.4874	42
43	403	.2798	463	.3215	523	.3631	583	.4048	643	.4465	703	.4881	43
44	404	.2805	464	.3222	524	.3638	584	.4055	644	.4472	704	.4888	44
45	405	6:45 .2812	465	7:45 .3229	525	8:45 .3645	585	9:45 .4062	645	10:45 .4479	705	11:45 .4895	45
46	406	.2819	466	.3236	526	.3652	586	.4069	646	.4486	706	.4902	46
47	407	.2826	467	.3243	527	.3659	587	.4076	647	.4493	707	.4909	47
48	408	.2833	468	.3249	528	.3666	588	.4083	648	.4499	708	.4916	48
49	409	.2840	469	.3256	529	.3673	589	.4090	649	.4506	709	.4923	49
50	410	.2847	470	.3263	530	.3680	590	.4097	650	.4513	710	.4930	50
51	411	.2854	471	.3270	531	.3687	591	.4104	651	.4520	711	.4937	51
52	412	.2861	472	.3277	532	.3694	592	.4111	652	.4527	712	.4944	52
53	413	.2868	473	.3284	533	.3701	593	.4118	653	.4534	713	.4951	53
54	414	.2874	474	.3291	534	.3708	594	.4124	654	.4541	714	.4958	54
55	415	.2881	475	.3298	535	.3715	595	.4131	655	.4548	715	.4965	55
56	416	.2888	476	.3305	536	.3722	596	.4138	656	.4555	716	.4972	56
57	417	.2895	477	.3312	537	.3729	597	.4145	657	.4562	717	.4979	57
58	418	.2902	478	.3319	538	.3736	598	.4152	658	.4569	718	.4986	58
59	419	.2909	479	.3326	539	.3743	599	.4159	659	.4576	719	.4993	59
60	420	7:00 .2916	480	8:00 .3333	540	9:00 .3749	600	10:00 .4166	660	11:00 .4583	720	12:00 .5	60