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All 37 eclipse records in the *Ch'un-ch'iu* and its supplement are summarised in Table 3. This gives column by column: (i) a reference number; (ii) the current Duke of Lu; (iii) the year of his reign in which the eclipse occurred; (iv) the lunar month; (v) the day of the month (where stated); (vi) the day of the sexagenary cycle (if given); (vii) the corresponding CDN (see Table 2); (viii) the equivalent date on the Julian Calendar; (ix) any additional remarks. Date reductions in column 8 are based on the tables of Zhang Peiyu<sup>28</sup> but whenever the day of the sexagenary cycle is specified in the text we have verified the accuracy of his reduction using a computer program. In two instances (645 and 549 B.C.) neither the day of the month nor the cyclical day is recorded. In converting both of these dates to the Julian calendar, we have assumed that the first day of the month is implied.

TABLE 3. Solar eclipses recorded in the *Ch'un-ch'iu* chronicle.

Ref	Ruler	Yr	Mh	Dy	Cyc day	CDN	BC date	Remarks
01	Yin	3	2	-	chi-szu	6	720/2/22	
02	Huan	3	7	1st	jen-ch'en	29	709/7/17	Recorded as total
03	Huan	17	10	1st	-	-	695/10/10	
04	Chuang	18	3	-	-	-	676/4/15	1st day assumed
05	Chuang	25	6	1st	hsin-wei	8	669/5/27	
06	Chuang	26	12	1st	kuei-hai	60	668/11/10	
07	Chuang	30	9	1st	keng-wu	7	664/8/28	
08	Hsi	5	9	1st	wu-shen	45	655/8/19	
09	Hsi	12	3	-	keng-wu	7	648/4/6	
10	Hsi	15	5	-	-	-	645/4/3	1st day assumed
11	Wen	1	2	-	kuei-hai	60	626/2/3	
12	Wen	15	6	1st	hsin-ch'ou	38	612/4/28	
13	Hsuan	8	7	-	chia-tzu	1	601/9/20	Recorded as total
14	Hsuan	10	4	-	ping-ch'en	53	599/3/6	
15	Hsuan	17	6	-	kuei-mao	40	592/5/15	
16	Cheng	16	6	1st	ping-yin	3	575/5/9	
17	Cheng	17	12	1st	ting-szu	54	574/10/22	
18	Hsiang	14	2	1st	i-wei	32	559/1/14	
19	Hsiang	15	8	-	ting-szu	54	558/5/31	
20	Hsiang	20	10	1st	ping-ch'en	53	553/8/31	
21	Hsiang	21	9	1st	keng-hsu	47	552/8/20	
22	Hsiang	21	10	1st	keng-ch'en	17	552/9/19	
23	Hsiang	23	2	1st	kuei-yu	10	550/1/5	
24	Hsiang	24	7	1st	chia-tzu	1	549/6/19	Recorded as total
25	Hsiang	24	8	1st	kuei-szu	30	549/7/18	
26	Hsiang	27	12	1st	i-hai	12	546/10/13	
27	Chao	7	4	1st	chia-ch'en	41	535/3/18	
28	Chao	15	6	1st	ting-szu	54	527/4/18	
29	Chao	17	6	1st	chia-hsu	11	525/8/22	
30	Chao	21	7	1st	jen-wu	19	521/6/10	
31	Chao	22	12	1st	kuei-yu	10	520/11/23	
32	Chao	24	5	1st	i-wei	32	518/4/9/	
33	Chao	31	12	1st	hsin-hai	48	511/11/14	
34	Ting	5	3	1st	hsin-hai	48	505/2/16	
35	Ting	12	11	1st	ping-yin	3	498/9/22	
36	Ting	15	8	1st	keng-ch'en	17	495/7/22	
37	Ai	14	5	1st	keng-shen	57	481/4/19	

TABLE 4. Calculated circumstances for solar eclipses contained in the *Ch'un-ch'iu* chronicle.

Ref	Yr	Mh	Dy	JD	CDN	LHR	Alt	Mag
01	720	2	22	1458496	6	7.0	5	0.44
02	709	7	17	1462659	29	15.6	42	1.06
03	695	10	10	1467857	7	15.9	22	0.55
04	676	4	15	1474619	49	17.7	8	0.70
05	669	5	27	1477218	8	10.2	62	0.90
06	668	11	10	1477750	60	10.5	35	0.74
07	664	8	28	1479137	7	15.5	37	0.85
08	655	8	19	1482415	45	14.8	47	0.93
09	648	4	6	1484837	7	17.9	4	0.27
10			No	Eclipse				
11	626	2	3	1492810	60	12.6	35	0.79
12	612	4	28	1498008	38	6.6	13	0.86
13	601	9	20	1502171	1	15.7	30	0.88
14	599	3	6	1502703	53	6.0	-5	0.69
15			No	Eclipse				
16	575	5	9	1511533	3	14.7	48	0.95
17	574	10	22	1512064	54	7.9	17	0.66
18	559	1	14	1517262	32	15.1	18	0.60
19	558	5	31	1517764	54	4.9	-1	0.37
20	553	8	31	Invisible	in	N. China		
21	552	8	20	1520037	47	14.5	51	0.70
22			No	Eclipse				
23	550	1	5	1520540	10	8.9	16	0.88
24	549	6	19	1521071	1	14.0	61	1.08
25			No	Eclipse				
26	546	10	13	1522282	12	7.3	12	0.92
27	535	3	18	1526091	41	14.4	39	0.36
28	527	4	18	1529044	54	12.0	63	0.88
29	525	8	21	1529900	10	17.5	15	0.84
30	521	6	10	1531289	19	10.3	65	0.61
31	520	11	23	1531820	10	11.6	35	0.60
32	518	4	9	1532322	32	8.2	29	0.58
33	511	11	14	1535098	48	10.1	31	0.58
34	505	2	16	1537018	48	15.0	25	0.39
35	498	9	22	1539793	3	11.5	57	0.88
36	495	7	22	1540827	17	11.8	76	0.52
37	481	4	19	1545847	57	0.8	61	0.84

Location of Chu-fu: Latitude 35°.53 N Longitude 117°.02 E