

Saros Text: http://www.caeno.org/pdf/Walker_Grand_Saros_Eclipse_historical_date.pdf

Ptolemy's Almagest mentions the details of ten lunar eclipses that were originally recorded in Babylon:

In the 1st year of Mardokempad ([27th year from Nabonassar], 29/30 Thoth of the Egyptian calendar = 19/20 March 721 BC), a lunar eclipse began well an hour after moonrise at Babylon and was total (Almagest IV 6).

In the 2nd year of Mardokempad ([28th year from Nabonassar], 18/19 Thoth of the Egyptian calendar = 8/9 March 720 BC), a lunar eclipse occurred with a [maximum] obscuration of 3 digits from the south at midnight in Babylon (Almagest IV 6 & 9).

In the 2nd year of Mardokempad ([28th year from Nabonassar], 15/16 Phamenoth of the Egyptian calendar = 1/2 September 720 BC), a lunar eclipse began after moonrise and the [maximum] obscuration was more than half [the diameter] from the north (Almagest IV 6).

In the 5th year of Nabopolassar (127th year from Nabonassar, 27/28 Athyr of the Egyptian calendar = 21/22 April 621 BC), a lunar eclipse began at the end of the 11th hour in Babylon. The maximum obscuration was 1/4 of the diameter from the south (Almagest V 14).

In the 7th year of Cambyses (225th year from Nabonassar, 17/18 Phamenoth of the Egyptian calendar = 16/17 July 523 BC), the Moon was eclipsed half its diameter from the north at one hour before midnight in Babylon (Almagest V 14).

Almagest IV 9) In the 20th year of Darius I ([246th year from Nabonassar], 28/29 Epiphi [11] of the Egyptian calendar = 19/20 November 502 BC), the Moon was obscured 1/4 of its diameter from the south when 6 1/3 equinoctial hours of the night had passed in Babylon. [Julian -501/11/19_23:00, Egyptian 246/11/28, Lunar -190/08/14]

In the 31st year of Darius I ([257th year from Nabonassar], 3/4 Tybi of the Egyptian calendar = 25/26 April 491 BC), the Moon was obscured 2 digits from the south at the middle of the 6th hour [of the night] in Babylon (Almagest IV 9).

During the archonship of Phanostratos at Athens, in the month Poseideon (366th year from Nabonassar, 26/27 Thoth of the Egyptian calendar = 22/23 December 383 BC), a small section of the Moon's diameter was eclipsed from the summer rising-point [north-east] when half an hour of the night was remaining. The Moon was still [partially] eclipsed at moonset (Almagest IV 11).

During the archonship of Phanostratos at Athens, in the month Skirophorion (366th year from Nabonassar, 24/25 Phamenoth of the Egyptian calendar = 18/19 June 382 BC), the Moon was eclipsed from the summer rising-point [north-east] when the first hour [of the night] was well advanced (Almagest IV 11).

During the archonship of Euandros at Athens, in the month Poseideon I (367th year from Nabonassar, 16/17 Thoth of the Egyptian calendar = 12/13 December 382 BC), the Moon was

totally eclipsed, from the summer rising-point [north-east], after 4 hours [of the night] had passed (Almagest IV 11).
 So far, the 5th and the last three observations have been found duplicated in cuneiform records.

Egyptian Thoth 1 Non-Ascension Counting				0---v
Persian Nissan 1 Ascension Counting		0---v		
Persian Tishri 1			0---v	
Astronomical Year	0---v			
King's Name				
KANDALANU	-630	18		19
	-629	19		20
	-628	20		21
	-627	21		22
	-626	22		23
	-625	0		1
NABOPOLASSAR	-624	1		2
	-623	2		3
	-622	3		4
	-621	4		5
Ptolemy's Almagest: Partial Eclipse 4/22 621 BC Was in 5 th year	-620	5		6
	-619	6		7
	-618	7		8
	-617	8		9
	-616	9		10
	-615	10		11
	-614	11		12
	-613	12		13
	-612	13		14
	-611	14		15
	-610	15		16
	-609	16		17
Saros Text verified	-608	17		18
	-607	18		19
	-606	19		20
	-605	20		21
	-604	21		22
NEBUCHADNEZZAR II	-603	1		2
	-602	2		3
	-601	3		4
	-600	4		5
	-599	5		6

	-598	6	7
	-597	7	8
	-596	8	9
	-595	9	10
	-594	10	11
	-593	11	12
	-592	12	13
	-591	13	14
Saros Text verified	-590	14	15
	-589	15	16
	-588	16	17
	-587	17	18
Temple Destroyed	-586	18	19
	-585	19	20
	-584	20	21
	-583	21	22
	-582	22	23
	-581	23	24
	-580	24	25
	-579	25	26
	-578	26	27
	-577	27	28
	-576	28	29
	-575	29	30
	-574	30	31
	-573	31	32
Saros Text verified	-572	32	33
	-571	33	34
	-570	34	35
	-569	35	36
	-568	36	37
VAT 4956 verified	-567	37	38
	-566	38	39
	-565	39	40
	-564	40	41
	-563	41	42
	-562	42	43
	-561	43	44
AMEL - MARDUK	-560	1	2
NERGAL-SHAR-USUR	-559	1	2
Cyrus King Of Persia: Yr 1 Diodorus, as well as Africanus and Eusebius, shows that Cyrus' first year as king of Persia corresponded to Olympiad 55, year 1	-559	1	
	-558	2	3
	-557	3	4
	-556	4	5

	-555	5	6
NABUNAID	-554	1	2
Yr 1 =-554BC Saros Text verified	-553	2	3
	-552	3	4
	-551	4	5
	-550	5	6
	-549	6	7
	-548	7	8
	-547	8	9
	-546	9	10
	-545	10	11
	-544	11	12
	-543	12	13
	-542	13	14
	-541	14	15
	-540	15	16
	-539	16	17
	-538	17	18
CYRUS	-537	1	2
Saros Text verified (JD1525397.17, -536/04/23_16)	-536	2	3
	-535	3	4
	-534	4	5
	-533	5	6
	-532	6	7
	-531	7	8
Cyrus last year King Of Persia: Diodorus, as well as Africanus and Eusebius, shows that Cyrus' last year as king of Persia corresponded to Olympiad 62, year 2	-530	8	9
	-529	9	10
CAMBYSES	-528	1	2
	-527	2	3
	-526	3	4
	-525	4	5
	-524	5	6
	-523	6	7
Tablet (Cambyse1.doc): Yr 7 eclipse on 7/16	-522	7	8
Tablet: Yr 7 eclipse on 1/10	-521	8	9
DARIUS I	-520	1	2
C17 (-484) proves that "Artaxerxes" is a title, not a specific king's name, and Darius I is also called Artaxerxes	-519	2	3
Saros Text verified	-518	3	4
	-517	4	5
	-516	5	6

	-515	6	7
	-514	7	8
	-513	8	9
	-512	9	10
	-511	10	11
	-510	11	12
	-509	12	13
	-508	13	14
	-507	14	15
	-506	15	16
	-505	16	17
	-504	17	18
	-503	18	19
	-502	19	20
Almagest IV 9	-501	20	21
Saros Text verified	-500	21	22
	-499	22	23
	-498	23	24
	-497	24	25
	-496	25	26
	-495	26	27
	-494	27	28
	-493	28	29
	-492	29	30
	-491	30	31
	-490	31	32
	-489	32	33
	-488	33	34
	-487	34	35
	-486	35	36
	-485	36	37
XERXES, C17	-484	1	2
	-483	2	3
Saros Text verified	-482	3	4
	-481	4	5
	-480	5	6
	-479	6	7
	-478	7	8
	-477	8	9
	-476	9	10
	-475	10	11
	-474	11	12
	-473	12	13
	-472	13	14
	-471	14	15
AP5	-470	15	16
	-469	16	17

	-468	17	18
	-467	18	19
	-466	19	20
	-465	20	21
Saros Text verified	-464	21	22
ARTAXERXES I, AP6	-463	1	2
	-462	2	3
	-461	3	4
	-460	4	5
	-459	5	6
	-458	6	7
	-457	7	8
	-456	8	9
	-455	9	10
	-454	10	11
	-453	11	12
	-452	12	13
	-451	13	14
KR1	-450	14	15
	-449	15	16
KR2	-448	16	17
	-447	17	18
Saros Text verified	-446	18	19
AP13	-445	19	20
	-444	20	21
Tishri 24 in Nehemiah 10:31	-443	21	22
	-442	22	23
	-441	23	24
	-440	24	25
AP14	-439	25	26
	-438	26	27
	-437	27	28
KR3 + AP10	-436	28	29
	-435	29	30
	-434	30	31
KR4	-433	31	32
	-432	32	33
	-431	33	34
	-430	34	35
	-429	35	36
	-428	36	37
	-427	37	38
KR5	-426	38	39
	-425	39	40
	-424	40	41
	-423	41	42
DARIUS II	-422	1	2

	-421	2	3
	-420	3	4
KR6 + KR7 + AP20	-419	4	5
	-418	5	6
	-417	6	7
	-416	7	8
AP25	-415	8	9
	-414	9	10
	-413	10	11
	-412	11	12
	-411	12	13
	-410	13	14
AP28	-409	14	15
	-408	15	16
	-407	16	17
	-406	17	18
	-405	18	19
	-404	19	20
ARTAXERXES II, KR9	-403	1	2
	-402	2	3
KR10	-401	3	4
	-400	4	5
	-399	5	6
	-398	6	7
	-397	7	8
	-396	8	9
	-395	9	10
	-394	10	11
	-393	11	12
	-392	12	13
	-391	13	14
	-390	14	15
	-389	15	16
	-388	16	17
	-387	17	18
	-386	18	19
	-385	19	20
	-384	20	21
	-383	21	22
	-382	22	23
	-381	23	24
	-380	24	25
	-379	25	26
	-378	26	27
	-377	27	28
	-376	28	29
	-375	29	30

	-374	30		31
	-373	31		32
	-372	32		33
	-371	33		34
	-370	34		35
	-369	35		36
	-368	36		37
	-367	37		38
	-366	38		39
	-365	39		40
	-364	40		41
	-363	41		42
	-362	42		43
	-361	43		44
	-360	44		45
	-359	45		46
	-358	46		47
ARTAXERXES III	-357	1		2
	-356	2		3
	-355	3		4
	-354	4		5
	-353	5		6
	-352	6		7
	-351	7		8
C10	-350	8		9
	-349	9		10
	-348	10		11
	-347	11		12