

#268

EXPLORER 34

IMP-F

(67-051A-04B) LEPEDea

COUNT RATE DATA

35 tapes

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC
INFORMATION SYSTEM:

<http://nssdc.gsfc.nasa.gov/nmc/>

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

- a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
<http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/>

- b. Core Catalog Materials

IMP-F

LEPEDEA COUNT RATE DATA

67-051A-04B

SPMS-00552

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE WERE 35 7-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE ARE FIVE RESTORED TAPES. THE DR AND DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A 418 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR01626	DS01626	D14197	1	05/26/67 - 06/08/67 (a)
		D14198	2	06/07/67 - 06/20/67 (b)
		D14199	3	06/20/67 - 07/02/67
		D14200	4	07/02/67 - 07/13/67
		D14201	5	07/13/67 - 07/25/67
		D14202	6	07/25/67 - 08/06/67
		D14203	7	08/06/67 - 08/17/67 (c)
		D14204	8	08/17/67 - 08/29/67 (d)
DR01627	DS01627	D14205	1	08/29/67 - 09/01/67 (e)
		D14206	2	09/01/67 - 09/11/67 (f)
		D14207	3	09/11/67 - 09/13/67 (g)
		D14208	4	09/13/67 - 09/25/67 (h)
		D14209	5	09/25/67 - 10/07/67
		D14210	6	10/07/67 - 10/18/67 (i)
		D14211	7	10/18/67 - 10/30/67
		D14212	8	10/30/67 - 11/11/67 (j)
DR01628	DS01628	D14213	1	11/11/67 - 11/23/67 (k)
		D14214	2	11/23/67 - 12/05/67 (l)
		D14215	3	12/05/67 - 12/17/67 (m)
		D14216	4	12/17/67 - 12/29/67 (n)
		D14217	5	12/29/67 - 01/10/68
		D14218	6	01/10/68 - 01/24/68
		D14219	7	01/24/68 - 02/05/68 (o)
		D14220	8	02/05/68 - 02/17/68

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DR#	DS#	D#	FILES	TIME SPAN
DR01629	DS01629	D14221	1	02/17/68 - 02/29/68 (p)
		D14222	2	02/29/68 - 03/12/68
		D14223	3	03/12/68 - 03/20/68
		D14224	4	03/20/68 - 04/02/68
		D14225	5	04/02/68 - 04/13/68 (q)
		D14226	6	04/13/68 - 04/23/68
		D14227	7	04/23/68 - 05/05/68
		D14228	8	05/05/68 - 05/17/68
DR01595	DS01595	D14229	1	05/17/68 - 05/27/68
		D14230	2	05/27/68 - 06/08/68
		D14231	3	06/08/68 - 06/17/68

- (a) D014197 - 1 error, record 2840, File 1
- (b) D014198 - 1 error, record 7, File 1
- (c) D014203 - 1 error, record 5, File 1
- (d) D014204 - 5 errors, records 81, 119, 217, 226, 2846, File 1
- (e) D014205 - 6 errors, records 197, 212, 221, 224, 2843, 2845, File 1
- (f) D014206 - 1 error, record 123, File 1
- (g) D014207 - 1 error, record 2856, File 1
- (h) D014208 - 6 errors, records 2545, 2546, 2547, 2580, 2581, 2606, File 1
- (i) D014210 - 2 errors, records 5, 6, File 1
- (j) D014212 - 3 errors, records 2846, 2848, 2849, File 1
- (k) D014213 - 2 errors, records 318, 1592, File 1
- (l) D014214 - 2 errors, records 2599, 2845, File 1
- (m) D014215 - 1 error, record 2783, File 1
- (n) D014216 - 1 error, record 281, File 1
- (o) D014219 - 1 error, record 1, File 1
- (p) D014221 - 1 error, record 7, File 1
- (q) D014225 - 3 errors, records 38, 56, 91, File 1

MEMORANDUM

TO: 67-051A-04B

May 24, 1974

FROM: J. King

Subject: Telecon with Lu Frank, 5/23/74

Some information fields on the LEPEDea tapes were clarified:

1. Proton and electron "readouts" (items 71, 73, 75, . . . , 485) were obtained by taking counts per accumulation interval, dividing by the accumulation duration in seconds, and rounding off to the nearest integer.
2. The counts in words 71, 73, . . . , 85 are for zero applied LEPEDea voltage, or in other words, are background counts. The next 15 cycles of 8 readouts each are the LEPEDea data with 15 successive non-zero voltage settings. The last cycle of 8 readouts contains the GM213 data.
3. The look direction information of items 486-1063 relates to midpoints of accumulation angles.
4. The bandpass intensities of items 1184-1303 are in units of $(\text{cm}^2 \text{ster sec})^{-1}$ over the energy window.
5. The integral intensities of items 1064-1183 are in units of $(\text{cm}^2 \text{ster sec})^{-1}$, and are integral in energy in that sums of bandpass intensities have been taken.
6. LEPEDea Steps 2-16, referred to in the Iowa definitions of items 1064-1303, refer to LEPEDea energy channels 1-15.

THE UNIVERSITY OF IOWA

IOWA CITY, IOWA 52242
52242



Department of Physics and Astronomy
Area 319: 353-4343

31 January 1974

Mr. Julius J. Brecht
National Space Science Data Center
Code 601
Goddard Space Flight Center
Greenbelt, Maryland 20771

Dear Mr. Brecht:

We are shipping to you by air freight four (4) cartons containing thirty-five tapes of the IMP-F Master Science File.

<u>Box 1</u>		<u>Box 2</u>	
<u>Reel No.</u>	<u>Orbit No.</u>	<u>Reel No.</u>	<u>Orbit No.</u>
F-004	1- 4	F-068	26,22-24
F-109	4- 7	F-021	24-26
F-059	7- 9	F-070	26-29
F-073	9-12	F-013	29-32
F-017	12-15	F-053	32-35
F-030	15-18	F-089	35-37
F-028	18-20	F-107	37-40
F-046	20-23	F-091	40-43
F-022	23-26	F-090	43-46

<u>Box 3</u>		<u>Box 4</u>	
<u>Reel No.</u>	<u>Orbit No.</u>	<u>Reel No.</u>	<u>Orbit No.</u>
F-110	46-48	F-010	70-73
F-101	48-51	F-001	73-76
F-049	51-54	F-060	76-78
F-012	54-57	F-061	78-81
F-008	57-60	F-056	81-83
F-041	60-63	F-057	83-86
F-006	63-65	F-029	86-89
F-069	65-68	F-067	89-90
F-062	68-70		

Orbits 1 - 21 have been redone at GSFC and received but are not processed into the Master Science File. Orbits 22 - 26, 64 - 66, and all of 67 except the data in file #28 have been reprocessed into the Master Science File. Orbit 67 has a header label missing in file #28 and the Science File program cannot extract the data from this file without the header label.

A copy of the Master Science File tape format is enclosed in Box 4. The tapes will leave Iowa City 31 January 1974. Please acknowledge receipt of this shipment with the form enclosed in Box 4.

Sincerely,

Wm. Rollin Davison

Wm. Rollin Davison
Computer Operations Manager



cc: Dr. L. A. Frank
Dr. K. L. Ackerson

353 - 5327

in wire 418

IMPF MASTER FILE

<u>ITEM</u>	<u>FIELD</u>	<u>DEFINITION</u>	<u>UNITS</u>
1	EXPID	EXPERIMENTER ID	
2	SATID	SATELLITE ID	
3	REV	REVOLUTION NUMBER	
4	STA NO	STATION NUMBER	
5	ANAL TAPE NO	ANALOG TAPE NUMBER	
6	ATD ID	ANALOG TO DIGITAL LINE ID (1=F9, 2=F8)	
7	DAY	BEGINNING DAY OF THE INPUT DATA FILE	DAYS
8	MILLISEC	BEGINNING MILLISECOND OF THE INPUT DATA FILE	MSECS
9	DAY	ENDING DAY OF THE INPUT DATA FILE	DAY
10	MILLISEC	ENDING MILLISECOND OF THE INPUT DATA FILE	MSECS
11	SEQ TIME	AVERAGE SEQUENCE TIME FOR THE INPUT DATA FILE	MSECS
12	QL FG	QUICK LOOK FLAG	
13	OR FG	ORBIT/NO ORBIT DATA FLAG	
14	YR	YEAR OF DECOMM PROCESSING	YEARS
15	MO	MONTH OF DECOMM PROCESSING	MONTHS
16	DA	DAY OF DECOMM PROCESSING	DAYS
17	HR	HOUR OF DECOMM PROCESSING	HOURS
18	ORBIT TAPE ID	ORBIT TAPE ID REEL NUMBER	

IMPF MASTER FILE

<u>ITEM</u>	<u>FIELD</u>	<u>DEFINITION</u>	<u>UNITS</u>
19	YR	YEAR OF ORBIT TAPE GENERATION	YEARS
20	MO	MONTH OF ORBIT TAPE GENERATION	MONTHS
21	DA	DAY OF ORBIT TAPE GENERATION	DAYS
22	SPIN PERIOD	AVERAGE SPIN PERIOD	MSECS
23	YR	YEAR OF ORBIT START	YEARS
24	YR	YEAR OF ORBIT END	YEARS
25	DAY	DAY OF ORBIT DATA	DAYS
26	MILLISEC	MILLISECONDS OF ORBIT DAY	MSECS
27	LONG	GEOCENTRIC LONGITUDE OF SATELLITE POSITION	DEGREES
28	LAT	GEOCENTRIC LATITUDE OF SATELLITE POSITION	DEGREES
29	RAD	DISTANCE FROM CENTER OF EARTH	KM
30	RO	GEOMAGNETIC RANGE	EARTH RADII
31	GLAT	GEOMAGNETIC LATITUDE OF SATELLITE POSITION	DEGREES
32	L	MCILLWAIN MAGNETIC SHELL RADIUS	EARTH RADII
33	B	MAGNETIC FIELD STRENGTH	GAUSS
34	B/BO	RATIO	
35	RFRA	RIGHT ASCENSION (REAL FIELD COORDINATES)	DEGREES
36	RFDECL	DECLINATION (REAL FIELD COORDINATE)	DEGREES
37	XSE		
38	YSE	SOLAR ECLIPTIC SATELLITE	KM
39	ZSE	POSITION VECTOR	

IMPF MASTER FILE

<u>ITEM</u>	<u>FIELD</u>	<u>DEFINITION</u>	<u>UNITS</u>
40	XSM		
41	YSM	SOLAR MAGNETOSPHERIC SATELLITE	KM
42	ZSM	POSITION VECTOR	
43	XC		
44	YC	CELESTIAL INERTIAL SATELLITE	KM
45	ZC	POSITION VECTOR	
46	XSUN		
47	YSUN	CELESTIAL INERTIAL SUN	KM
48	ZSUN	POSITION VECTOR	
49	SESA	SUN-EARTH-SATELLITE ANGLE	DEGREES
50	RA	CELESTIAL INERTIAL RIGHT ASCENSION OF SPACECRAFT	DEGREES
51	DECL	CELESTIAL INERTIAL DECLINATION OF SPACECRAFT	DEGREES
52	PSM	SOLAR MAGNETOSPHERIC RIGHT ASCENSION OF SPACECRAFT	DEGREES
53	TSM	SOLAR MAGNETOSPHERIC DECLINATION OF SPACECRAFT	DEGREES
54	PSE	SOLAR ECLIPTIC RIGHT ASCENSION OF SPACECRAFT	DEGREES
55	TSE	SOLAR ECLIPTIC DECLINATION OF SPACECRAFT	DEGREES
56	LOCAL TIME	GEOCENTRIC LOCAL TIME OF SPACECRAFT	DEGREES
57	GLONG	GEOMAGNETIC LOCAL TIME OF SPACECRAFT	DEGREES

IMPF MASTER FILE

<u>ITEM</u>	<u>FIELD</u>	<u>DEFINITION</u>	<u>UNITS</u>
58	PP8	+28 VOLT LINE (AVERAGE FOR SEVENTEEN SEQUENCES)	VOLTS
59	PP20	SUI VOLTS (AVERAGE FOR SEVENTEEN SEQUENCES)	VOLTS
60	PP17	BTL TEMPERATURE NEAR SUI EXPERIMENT	DEGREES
61	TQF	TIME QUALITY FLAG (SEE APPENDIX)	
62	DAY	DAY OF THIS DATA FRAME	DAYS
63	MILLISEC	MILLISECOND OF THIS DATA FRAME	MSECS
64	PSQF	PSEUDO-SEQUENCE COUNT QUALITY FLAG (SEE APPENDIX)	
65	PSEQ	PSEUDO-SEQUENCE COUNTER	
66	SIDQF	SEQUENCE ID QUALITY FLAG (SEE APPENDIX)	
67	SID	SEQUENCE ID	
68	SUI	SUI ON/OFF FLAG	
69	CLOCK	SATELLITE CLOCK	
70	P*	PARITY FLAG P1(1)	
71	P1(1)	PROTON READOUT STEP 1, SECTOR 1	CPS
72	P*	PARITY FLAG E1(1)	
73	E1(1)	ELECTRON READOUT STEP 1, SECTOR 1	CPS
74	P*	PARITY FLAG P2(1)	
75	P2(1)	PROTON READOUT STEP 1, SECTOR 2	CPS
76	P*	PARITY FLAG E2(1)	
77	E2(1)	ELECTRON READOUT STEP 1, SECTOR 2	CPS

IMPF MASTER FILE

<u>ITEM</u>	<u>FIELD</u>	<u>DEFINITION</u>	<u>UNITS</u>
78	P*	PARITY FLAG P3(1)	
79	P3(1)	PROTON READOUT STEP 1, SECTOR 3	CPS
80	P*	PARITY FLAG E3(1)	
81	E3(1)	ELECTRON READOUT STEP 1, SECTOR 3	CPS
82	P*	PARITY FLAG P4(1)	
83	P4(1)	PROTON READOUT STEP 1, SECTOR 4	CPS
84	P*	PARITY FLAG E4(1)	
85	E4(1)	ELECTRON READOUT STEP 1, SECTOR 4	CPS
86-485		ITEMS 61-85 ARE REPEATED 16 MORE TIMES, THUS GIVING A COMPLETE LEPEDea CYCLE. REPETITIONS 1-16 ARE READOUTS OF THE LEPEDea ELECTRON AND PROTON CHANNELS. REPITION 17 IS THE READOUT OF THE GM213 Ei(17) IS A REDUNDANT READOUT OF Pi(17), i=1,2,3,4.	
486	SASA(1)	SPIN AXIS-SUN ANGLE, STEP 1	DEGREES
487	OA1(1)	SUN TIME, STEP 1	MSECS
488	OA2(1)	SPIN PERIOD, STEP 1	MSECS
489	OA3(1)	EARTH TIME, STEP 1	MSECS
490	OA4(1)	EARTH WIDTH, STEP 1	MSECS
491	PP2(1)	LEPEDEA VOLTAGE, STEP 1	VOLTS
492	PSM1(1)	SM.RGT. ASC. OF DETECTOR FIELD OF VIEW, SECTOR 1, STEP 1	DEGREES
493	TSM1(1)	SM. DECL. OF DETECTOR FIELD OF VIEW, SECTOR 1, STEP 1	DEGREES

IMPF MASTER FILE

<u>ITEM</u>	<u>FIELD</u>	<u>DEFINITION</u>	<u>UNITS</u>
494	PSE1(1)	SE RGT. ASC. OF DETECTOR FIELD OF VIEW, SECTOR 1, STEP 1	DEGREES
495	TSE1(1)	SE DECL. OF DETECTOR FIELD OF VIEW, SECTOR 1, STEP 1	DEGREES
496	RA1(1)	GEI RGT. ASC. OF DETECTOR FIELD OF VIEW, SECTOR 1, STEP 1	DEGREES
497	DC1(1)	GEI DECL OF DETECTOR FIELD OF VIEW, SECTOR 1, STEP 1	DEGREES
498	B1(1)	B-VECTOR-DETECTOR FIELD OF VIEW ANGLE, SECTOR 1, STEP 1	DEGREES
499-519		ITEMS 492-498 ARE REPEATED 3 MORE TIMES FOR SECTORS 2, 3 AND 4.	
520-1063		ITEMS 486-519 ARE REPEATED 16 MORE TIMES, ONCE FOR EACH SEQUENCE OF THE LEPEDEA.	
1064	JE1(1)	ELECTRON INTEGRAL INTENSITY, SECTOR 1, STEP 2	
1065	JE2(1)	ELECTRON INTEGRAL INTENSITY, SECTOR 2, STEP 2	
1066	JE3(1)	ELECTRON INTEGRAL INTENSITY, SECTOR 3, STEP 2	
1067	JE4(1)	ELECTRON INTEGRAL INTENSITY, SECTOR 4, STEP 2	
1068	JP1(1)	PROTON INTEGRAL INTENSITY, SECTOR 1, STEP 2	
1069	JP2(1)	PROTON INTEGRAL INTENSITY, SECTOR 2, STEP 2	
1070	JP3(1)	PROTON INTEGRAL INTENSITY, SECTOR 3, STEP 2	
1071	JP4(1)	PROTON INTEGRAL INTENSITY, SECTOR 4, STEP 2	

IMPF MASTER FILE

<u>ITEM</u>	<u>FIELD</u>	<u>DEFINITION</u>	<u>UNITS</u>
1072-1183		ITEMS 1064-1071 ARE REPEATED 14 MORE TIMES FOR SEQUENCES 3-16 RESPECTIVELY.	
1184	JED1(1)	ELECTRON BANDPASS INTENSITY, SECTOR 1, STEP 2	
1185	JED2(1)	ELECTRON BANDPASS INTENSITY, SECTOR 2, STEP 2	
1186	JED3(1)	ELECTRON BANDPASS INTENSITY, SECTOR 3, STEP 2	
1187	JED4(1)	ELECTRON BANDPASS INTENSITY, SECTOR 4, STEP 2	
1188	JPD1(1)	PROTON BANDPASS INTENSITY, SECTOR 1, STEP 2	
1189	JPD2(1)	PROTON BANDPASS INTENSITY, SECTOR 2, STEP 2	
1190	JPD3(1)	PROTON BANDPASS INTENSITY, SECTOR 3, STEP 2	
1191	JPD4(1)	PROTON BANDPASS INTENSITY, SECTOR 4, STEP 2	
1192-1303		ITEMS 1184-1191 ARE REPEATED 14 MORE TIMES FOR SEQUENCES 3-16 RESPECTIVELY.	
1304	XE	ELECTRON NUMBER DENSITY	
1305	YE	ELECTRON ENERGY DENSITY	
1306	XP	PROTON NUMBER DENSITY	
1307	YP	PROTON ENERGY DENSITY	

* DATA QUALITY AS INDICATED BY THE PARITY FLAG (P) IS SHOWN IN THE FOLLOWING TABLE:

<u>P</u>	<u>DATA QUALITY</u>
3	GOOD
2	FAIR
1	BAD
0	UNDETERMINED

2				3				4				5				6			
I	X	P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

EXP ID				SAT ID				REV				STA NO				ANAL TAPE NO				AID ID				DAY				-----START OF			
7				8				9				10				11				12											
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

MILLISEC DAY
THIS FILE-----END OF THIS FILE-----
MILLISEC DAY
SEQ TIME QL OR YR NO DA HR
(AVG) FG FG -----DECOMM PROCESS DATE-----

13				14				15				16				17				18			
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

ORBIT TAPE YR MO DA
ID
SPIN PERIOD
YR YR DAY
(BEGIN) (END) MILLISEC

19				20				21				22				23				24			
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

LONG LAT RAD RO GLAT L

25				26				27				28				29				30			
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

B B/DO RFRA RFDECL XSE YSE

31				32				33				34				35				36			
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

ZSE XSM YSM ZSM XC YC

FILE NAME IMPF MASTER FILE PROGRAM NAME IMPFRED PROGRAMMER SHOPE - WEBB

DATE 6/2/67 RECORD LENGTH 1240 MORDE MODE RCD CODE RCD DENSITY RCD

ADDITIONAL INFORMATION:

[illegible]

REPEATED 16 MORE TIMES
(ONCE FOR EACH SEQUENCE)

[illegible][illegible][illegible][illegible][illegible]

FILE NAME	PROGRAM NAME	PROGRAMMER
DATE	RECORD LENGTH	MODE
		CODE
		DENSITY

1. LENGTH 7452

[illegible]

0.0 0.50 256.4 -15.9 256.9 0.0 335.3 -10.3 93.6 157.7 6.3 156.9 0.0 231.0 -18.7 108.0 233
0.0 -13.2 234.2 0.0 313.2 -17.6 100.6 210.7 -8.5 211.8 0.0 289.8 -22.3 105.9 92.5 2055. 2599. 2
132. 0.0 0.60 303.7 -13.7 302.6 0.0 17.6 7.5 79.2 201.8 -6.2 202.6 0.0 279.9 -23.2 107.5
280.3 -16.1 279.9 0.0 356.7 -1.4 86.1 256.9 -16.0 257.5 0.0 335.9 -10.1 93.5 92.5 2387. 259
9. 2464. 0.0 0.86 349.0 -3.2 348.6 0.0 63.1 21.2 71.0 247.8 -15.2 248.6 0.0 327.4 -13.2
96.3 326.9 -9.1 325.9 0.0 39.9 15.6 73.7 304.5 -13.6 303.5 0.0 18.4 7.8 78.9 92.5 120.
2599. 197. 0.0 1.07 33.5 9.2 34.6 0.0 112.9 21.8 74.6 295.5 -14.8 294.6 0.0 10.2 4
4. 81.5 11.4 3.3 11.9 0.0 88.3 23.5 71.3 345.8 -3.0 349.5 0.0 64.0 21.3 70.9 92.5
449. 2599. 526. 0.0 1.32 75.8 16.1 80.2 0.0 158.4 9.1 87.4 340.9 -5.5 340.2 0.0 54.3
19.5 71.7 56.4 13.7 57.5 0.0 136.5 16.7 80.4 33.9 9.3 35.0 0.0 113.3 21.8 74.7 92
5. 782. 2599. 859. 0.0 1.70 127.4 13.1 126.3 0.0 201.1 -8.9 101.6 25.4 7.2 26.3 0.0 1
03.9 22.9 73.3 104.1 15.9 103.6 0.0 180.1 -0.0 95.0 80.8 16.1 81.2 0.0 159.4 8.7 87.7
92.5 111.1 2599. 1183. 0.0 2.02 172.2 2.3 171.9 0.0 246.6 -21.8 108.9 71.2 15.5 71.9 0
0. 150.6 12.1 84.8 150.2 8.3 149.2 0.0 223.2 -16.6 106.6 127.8 13.0 126.7 0.0 201.5 -9.1 1
01.7 92.5 1443. 2599. 1520. 0.0 2.35 216.7 -9.9 217.5 0.0 296.3 -21.3 104.5 118.8 14.4 117.9
0.0 193.2 -5.7 99.3 194.5 -4.2 195.2 0.0 271.8 -23.5 108.2 173.0 2.0 172.7 0.0 247.5 -21
9. 108.9 92.5 1773. 2599. 1850. 0.0 2.72 263.3 -16.2 263.6 0.0 341.6 -7.8 91.5 164.2 4.6 1
63.6 0.0 237.9 -20.2 108.4 239.8 -14.2 240.5 0.0 315.8 -15.7 98.6 217.2 -10.0 218.4 0.0 296.9
-21.2 104.4 92.5 2105. 2599. 2182. 0.0 3.07 310.7 -12.5 309.6 0.0 24.1 10.1 77.6 208.5 -8
0. 209.6 0.0 287.4 -22.5 106.2 287.5 -15.6 286.9 0.0 3.1 1.3 84.0 264.1 -16.2 264.4 0.0 3
42.4 -7.5 91.2 92.5 2434. 2599. 2511. 0.0 3.60 355.3 -1.4 355.1 0.0 70.1 22.2 71.0 254.5
-15.8 255.1 0.0 333.6 -10.9 94.2 333.3 -7.5 332.4 0.0 46.4 17.5 72.9 311.1 -12.4 310.0 0
0. 24.5 10.2 77.5 92.5 167. 2599. 244. 0.0 4.15 40.0 10.6 41.1 0.0 119.7 20.7 76.2 3
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103.2 31.7 8.8 32.8 0.0 110.9 22.1 74.4 110.9 15.3 110.1 0.0 186.1 -2.6 97.0 87.6 16
3. 87.7 0.0 165.4 6.2 89.8 130E 03 5.20E 02 0.0 0.0 0.0 7.80E 00 0.0 1.34E 03 3.74E 03 4.50E
0.0 1.92E 02 1.92E 02 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
03 7.50E 03 0.0 0.0 0.0 0.0 6.86E 03 4.94E 03 2.42E 03 5.16E 03 0.0 0.0
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E 01 0.0 3.20E 00 1.44E 02 2.11E 02 0.0 2.86E 01 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 6.76E 04 2.70E 04 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
04 1.15E 04 0.0 0.0 0.0 5.15E 02 0.0 1.29E 05 3.59E 05 4.32E 05 7.20E 05 0.0 1.15E
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7.99E 05 4.29E 05 4.59E 03 5.15E 06 5.13E 06 2.45E 04 7.42E 05 7.00E 04 1.47E 05 0.0 8.98E 07 6
99E 03 3.92E 05 0.0 6.11E 05 2.11E 04 2.95E 04 0.0 1.98E 06 0.0 5.08E 04 2.52E 04 3.
53E 04 2.52E 04 1.01E 04 3.35E 04 1.34E 04 3.35E 04 1.34E 04 0.0 0.0 0.0 0.0 0.0 0.0
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3.10-30.51 7.94 -2.89 0.24 0.91 0.39 92.1 165.4 -5.2 93.2 5.6 93.3 -10.6 18.0 18.3
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5. LENGTH 7452