



(SIEB)

(REGIN 100)

CORONA "J"

FLIGHT DATA
BOOK

1041-2

4 PAGES
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-40

VEHICLE NO. 1634

MISSION NO. 1041-2

CAMERA NOS. 208/209

DATE 05-24-67

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SYSTEM NO. J-40
VEHICLE NO. 1634
MISSION NO. 1041-2
CAMERA NOS. 208/209

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SYSTEM NO. J-40
VEHICLE NO. 1634
MISSION NO. 1041-2
CAMERA NOS. 208/209

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 208

SLAVE CAMERA SERIAL NO. 209

S/I -1 SERIAL NO. D105/134/133

S/I -2 SERIAL NO. D102/127/127

LAUNCH DATE 05-09-67

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 150)

PERIOD 94.205 MIN ECCENTRICITY 0.04414

PERIGEE 103.171 NM PERIGEE LAT. 57.978

APOGEE 430.010 NM INCL. ANGLE 85.049

RECOVERY ORBIT NO. 215

RECOVERY DATE 05-23-67

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SYSTEM NO. J-40
 VEHICLE NO. 1634
 MISSION NO. 1041-2
 CAMERA NOS. 208/209

CYCLE PERIOD DATA

| V/H LEVEL | RAMP AMPLITUDE | TIME UP RAMP-SEC | ---CALIBRATED--- | | ---IN-FLIGHT--- | |
|--------------|-------------------|---------------------|----------------------------|---------------------------|----------------------------|---------------------------|
| | | | MASTER CYCLE PERIOD-SEC | SLAVE CYCLE PERIOD-SEC | MASTER CYCLE PERIOD-SEC | SLAVE CYCLE PERIOD-SEC |
| 4 | 1 | 452 | 3.850 | 3.845 | 3.750 | 3.740 |
| 11 | 1 | 2084 | 2.339 | 2.341 | 2.375 | 2.360 |
| 4 | 1 | 742 | 3.239 | 3.235 | 3.250 | 3.245 |
| 11 | 1 | 2300 | 2.533 | 2.536 | 2.578 | 2.598 |

NOTE

AN * OR -0 INDICATES NO DATA AVAILABLE.

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A. 1041-2
 B. DRY
 C. PERFORMANCE ESTIMATE - PART ONE

OPERATIONS SUMMARY

| FWD PAN CAMERA NUMBER 208 | | OPN | NO | FRA | Q | LAT | LONG | HEIGHT | RANGE | DA | H | M | S | LTIM | S-TIM |
|---------------------------|-----|-----|-----|-----|----|-----|---------|---------|---------|----|----|----|----|------|---------|
| 84 | 5 8 | 5 | ON | 2 | 10 | 24 | 50 9E | 725344 | 751872 | 15 | 10 | 5 | 38 | 1326 | 36330 |
| | | | OFF | 2 | 9 | 27 | 50 10E | 733088 | 759920 | 15 | 10 | 5 | 52 | 1326 | 36350 |
| 91 | 0 0 | 4 | ON | 2 | 32 | 27 | 116 31W | 621920 | 644560 | 15 | 21 | 0 | 14 | 1314 | 75610 |
| | | | OFF | 2 | 30 | 57 | 116 26W | 625440 | 648200 | 15 | 21 | 0 | 37 | 1314 | 75630 |
| 93 | 0 0 | 3 | ON | 2 | 63 | 58 | 169 1W | 693216 | 718544 | 16 | 0 | 1 | 6 | 1244 | 60000 |
| | | | OFF | 2 | 62 | 32 | 168 29W | 684048 | 709024 | 16 | 0 | 1 | 29 | 1247 | 80000 |
| 96 | 5 3 | 111 | ON | 2 | 70 | 30 | 116 24E | 736032 | 762976 | 16 | 4 | 42 | 24 | 1228 | 16940 |
| | | | OFF | 2 | 51 | 17 | 123 10E | 630000 | 652944 | 16 | 4 | 47 | 8 | 1259 | 17220 |
| 96 | 5 6 | 54 | ON | 2 | 47 | 55 | 123 40E | 621824 | 644464 | 16 | 4 | 47 | 57 | 13 | 2 17270 |
| | | | OFF | 2 | 39 | 7 | 124 36E | 615360 | 637760 | 16 | 4 | 50 | 4 | 13 | 8 17400 |
| 97 | 8 5 | 33 | ON | 2 | 43 | 29 | 100 31E | 615776 | 638192 | 16 | 6 | 23 | 18 | 13 | 5 22990 |
| | | | OFF | 2 | 38 | 5 | 101 0E | 616432 | 638864 | 16 | 6 | 24 | 36 | 13 | 8 23070 |
| 97 | 8 7 | 52 | ON | 2 | 25 | 33 | 101 46E | 650272 | 673968 | 16 | 6 | 27 | 36 | 1314 | 23250 |
| | | | OFF | 2 | 16 | 39 | 102 8E | 701904 | 727552 | 16 | 6 | 29 | 45 | 1318 | 23380 |
| 98 | 5 7 | 107 | ON | 2 | 51 | 22 | 75 48E | 629184 | 652096 | 16 | 7 | 55 | 39 | 1258 | 28530 |
| | | | OFF | 2 | 34 | 6 | 77 37E | 622848 | 645536 | 16 | 7 | 59 | 49 | 1310 | 28780 |
| 99 | 2 8 | 13 | ON | 1 | 40 | 25 | 111 52W | 1647408 | 1710384 | 16 | 9 | 7 | 54 | 140 | 32870 |
| | | | OFF | 1 | 43 | 23 | 111 36W | 1597648 | 1658576 | 16 | 9 | 8 | 42 | 142 | 32920 |
| 99 | 2 4 | 24 | ON | 2 | 56 | 6 | 51 14E | 644688 | 668176 | 16 | 9 | 28 | 46 | 1253 | 34120 |
| | | | OFF | 2 | 52 | 2 | 52 1E | 630496 | 653456 | 16 | 9 | 29 | 46 | 1257 | 34180 |
| 100 | 5 2 | 38 | ON | 2 | 54 | 55 | 27 48E | 639392 | 662688 | 16 | 11 | 3 | 20 | 1254 | 39800 |
| | | | OFF | 2 | 48 | 37 | 28 53E | 621904 | 644544 | 16 | 11 | 4 | 52 | 13 | 0 39890 |
| 105 | 9 4 | 20 | ON | 2 | 15 | 53 | 87 14W | 722464 | 748896 | 16 | 19 | 4 | 4 | 1315 | 68640 |
| | | | OFF | 2 | 12 | 6 | 87 6W | 753632 | 781248 | 16 | 19 | 4 | 59 | 1316 | 68690 |
| 106 | 9 2 | 19 | ON | 2 | 35 | 19 | 111 51W | 625888 | 648672 | 16 | 20 | 33 | 39 | 13 | 6 74010 |
| | | | OFF | 2 | 32 | 2 | 111 38W | 634992 | 658128 | 16 | 20 | 34 | 27 | 13 | 7 74060 |
| 111 | 4 4 | 16 | ON | 2 | 53 | 3 | 127 45E | 627696 | 650560 | 17 | 4 | 20 | 39 | 1251 | 15630 |
| | | | OFF | 2 | 50 | 17 | 128 13E | 622192 | 644848 | 17 | 4 | 21 | 19 | 1254 | 15670 |
| 112 | 3 3 | 60 | ON | 2 | 57 | 38 | 103 7E | 640688 | 664032 | 17 | 5 | 53 | 48 | 1246 | 21220 |
| | | | OFF | 2 | 47 | 56 | 104 54E | 619120 | 641664 | 17 | 5 | 56 | 9 | 1255 | 21360 |
| 112 | 3 8 | 51 | ON | 2 | 23 | 23 | 106 46E | 682688 | 707616 | 17 | 6 | 2 | 3 | 13 | 9 21720 |
| | | | OFF | 2 | 14 | 8 | 107 6E | 750736 | 778240 | 17 | 6 | 4 | 17 | 1312 | 21850 |
| 113 | 3 1 | 8 | ON | 1 | 27 | 7 | 84 6W | 1807360 | 1876976 | 17 | 7 | 4 | 4 | 127 | 25440 |
| | | | OFF | 1 | 29 | 4 | 84 2W | 1774928 | 1843184 | 17 | 7 | 4 | 36 | 128 | 25470 |
| 113 | 8 6 | 87 | ON | 2 | 52 | 40 | 80 29E | 626032 | 648832 | 17 | 7 | 29 | 15 | 1251 | 26950 |
| | | | OFF | 2 | 38 | 41 | 82 11E | 623504 | 646208 | 17 | 7 | 32 | 37 | 13 | 1 27150 |
| 114 | 6 4 | 26 | ON | 2 | 60 | 40 | 54 57E | 650944 | 674688 | 17 | 9 | 1 | 33 | 1241 | 32490 |
| | | | OFF | 2 | 56 | 17 | 56 6E | 634944 | 658080 | 17 | 9 | 2 | 37 | 1247 | 32550 |
| 115 | 5 4 | 17 | ON | 2 | 58 | 33 | 31 53E | 641808 | 665200 | 17 | 10 | 36 | 19 | 1243 | 38170 |
| | | | OFF | 2 | 55 | 39 | 32 34E | 632528 | 655568 | 17 | 10 | 37 | 1 | 1247 | 38220 |
| 115 | 5 7 | 20 | ON | 2 | 33 | 32 | 35 13E | 638320 | 661584 | 17 | 10 | 42 | 22 | 13 | 3 38540 |
| | | | OFF | 2 | 30 | 11 | 35 25E | 651296 | 675040 | 17 | 10 | 43 | 11 | 13 | 4 38590 |
| 126 | 4 3 | 32 | ON | 2 | 64 | 40 | 129 30E | 657120 | 681088 | 18 | 3 | 51 | 27 | 1229 | 13880 |

| | | | | | | | | | | | | | | | | | |
|-----|---|---|-----|---|----|----|-----|-----|---------|---------|----|----|----|----|------|------|------|
| 127 | 4 | 5 | OFF | 2 | 59 | 8 | 131 | 22E | 636304 | 659488 | 18 | 3 | 52 | 48 | 1238 | 1396 | |
| | | | ON | 2 | 50 | 53 | 109 | 26E | 620768 | 643376 | 18 | 5 | 29 | 3 | 1246 | 1974 | |
| 128 | 5 | 5 | OFF | 2 | 47 | 13 | 109 | 58E | 620048 | 642624 | 18 | 5 | 29 | 56 | 1249 | 1979 | |
| | | | ON | 2 | 55 | 47 | 84 | 51E | 627152 | 649984 | 18 | 7 | 2 | 5 | 1241 | 2532 | |
| 129 | 3 | 5 | OFF | 2 | 40 | 2 | 87 | 3E | 630256 | 653216 | 18 | 7 | 5 | 53 | 1254 | 2555 | |
| | | | ON | 2 | 57 | 24 | 60 | 49E | 630272 | 653232 | 18 | 8 | 35 | 55 | 1239 | 3095 | |
| 130 | 5 | 1 | OFF | 2 | 42 | 36 | 63 | 9E | 625680 | 648464 | 18 | 8 | 39 | 30 | 1252 | 3117 | |
| | | | ON | 2 | 70 | 40 | 31 | 28E | 683792 | 708768 | 18 | 10 | 6 | 53 | 1212 | 3641 | |
| 130 | 5 | 4 | OFF | 2 | 66 | 57 | 33 | 47E | 663920 | 688144 | 18 | 10 | 7 | 48 | 1222 | 3646 | |
| | | | ON | 2 | 60 | 18 | 36 | 23E | 637648 | 660880 | 18 | 10 | 9 | 26 | 1235 | 3656 | |
| 130 | 5 | 7 | OFF | 2 | 40 | 20 | 39 | 42E | 631072 | 654064 | 18 | 10 | 14 | 16 | 1253 | 3685 | |
| | | | ON | 2 | 28 | 25 | 40 | 30E | 679984 | 704816 | 18 | 10 | 17 | 8 | 1259 | 3702 | |
| 131 | 3 | 1 | OFF | 2 | 24 | 11 | 40 | 43E | 706832 | 732672 | 18 | 10 | 18 | 9 | 13 | 1 | 3708 |
| | | | ON | 2 | 54 | 57 | 14 | 2E | 624896 | 647648 | 18 | 11 | 44 | 58 | 1241 | 4229 | |
| 141 | 3 | 1 | OFF | 2 | 52 | 24 | 14 | 31E | 621872 | 644512 | 18 | 11 | 45 | 35 | 1243 | 4233 | |
| | | | ON | 2 | 75 | 11 | 126 | 38E | 696240 | 721680 | 19 | 3 | 22 | 9 | 1148 | 1212 | |
| 141 | 3 | 4 | OFF | 2 | 71 | 3 | 130 | 53E | 672128 | 696656 | 19 | 3 | 23 | 12 | 12 | 6 | 1219 |
| | | | ON | 2 | 52 | 37 | 137 | 51E | 621824 | 644464 | 19 | 3 | 27 | 42 | 1239 | 1246 | |
| 142 | 6 | 3 | OFF | 2 | 50 | 3 | 138 | 16E | 622080 | 644736 | 19 | 3 | 28 | 19 | 1241 | 1249 | |
| | | | ON | 2 | 56 | 14 | 113 | 28E | 624336 | 647072 | 19 | 5 | 1 | 2 | 1234 | 1806 | |
| 143 | 3 | 2 | OFF | 2 | 48 | 27 | 114 | 51E | 623584 | 646288 | 19 | 5 | 2 | 55 | 1242 | 1817 | |
| | | | ON | 2 | 66 | 27 | 86 | 25E | 649328 | 673008 | 19 | 6 | 32 | 45 | 1218 | 2356 | |
| 144 | 5 | 6 | OFF | 2 | 61 | 32 | 88 | 23E | 633760 | 656848 | 19 | 6 | 33 | 57 | 1227 | 2363 | |
| | | | ON | 2 | 51 | 14 | 67 | 6E | 622400 | 645056 | 19 | 8 | 10 | 40 | 1239 | 2944 | |
| 145 | 7 | 0 | OFF | 2 | 36 | 15 | 68 | 45E | 658320 | 682336 | 19 | 8 | 14 | 17 | 1249 | 2965 | |
| | | | ON | 1 | 38 | 27 | 120 | 48W | 1476688 | 1532688 | 19 | 9 | 22 | 35 | 119 | 3375 | |
| 145 | 7 | 2 | OFF | 1 | 41 | 24 | 120 | 33W | 1428480 | 1482544 | 19 | 9 | 23 | 22 | 121 | 3380 | |
| | | | ON | 2 | 66 | 56 | 38 | 51E | 649648 | 673328 | 19 | 9 | 41 | 2 | 1216 | 3486 | |
| 157 | 7 | 3 | OFF | 2 | 46 | 15 | 44 | 9E | 628096 | 650976 | 19 | 9 | 46 | 3 | 1242 | 3516 | |
| | | | ON | 2 | 64 | 58 | 115 | 54E | 635744 | 658912 | 20 | 4 | 31 | 52 | 1215 | 1631 | |
| 157 | 7 | 4 | OFF | 2 | 63 | 8 | 116 | 38E | 631648 | 654656 | 20 | 4 | 32 | 19 | 1218 | 1633 | |
| | | | ON | 2 | 60 | 36 | 117 | 29E | 627440 | 650288 | 20 | 4 | 32 | 56 | 1222 | 1637 | |
| 159 | 3 | 3 | OFF | 2 | 50 | 51 | 119 | 37E | 627360 | 650208 | 20 | 4 | 35 | 18 | 1233 | 1651 | |
| | | | ON | 2 | 68 | 52 | 66 | 34E | 645952 | 669504 | 20 | 7 | 39 | 17 | 12 | 5 | 2755 |
| 159 | 3 | 7 | OFF | 2 | 53 | 33 | 71 | 51E | 625344 | 648112 | 20 | 7 | 43 | 1 | 1230 | 2778 | |
| | | | ON | 2 | 47 | 43 | 72 | 46E | 634080 | 657184 | 20 | 7 | 44 | 26 | 1235 | 2786 | |
| 160 | 8 | 2 | OFF | 2 | 44 | 48 | 73 | 8E | 641856 | 665248 | 20 | 7 | 45 | 8 | 1237 | 2790 | |
| | | | ON | 2 | 59 | 27 | 46 | 51E | 625744 | 648528 | 20 | 9 | 15 | 47 | 1223 | 3334 | |
| 160 | 8 | 7 | OFF | 2 | 51 | 14 | 48 | 36E | 628176 | 651056 | 20 | 9 | 17 | 46 | 1232 | 3346 | |
| | | | ON | 2 | 16 | 5 | 51 | 14E | 842352 | 873344 | 20 | 9 | 26 | 15 | 1251 | 3397 | |
| 161 | 4 | 3 | OFF | 2 | 10 | 10 | 51 | 25E | 909376 | 942944 | 20 | 9 | 27 | 42 | 1253 | 3406 | |
| | | | ON | 2 | 53 | 38 | 24 | 32E | 625984 | 648784 | 20 | 10 | 51 | 22 | 1229 | 3908 | |
| 162 | 2 | 3 | OFF | 2 | 49 | 49 | 25 | 10E | 631040 | 654032 | 20 | 10 | 52 | 17 | 1232 | 3913 | |
| | | | ON | 2 | 32 | 3 | 3 | 13E | 708016 | 733904 | 20 | 12 | 30 | 45 | 1243 | 4504 | |
| 166 | 7 | 3 | OFF | 2 | 25 | 41 | 3 | 33E | 755936 | 783632 | 20 | 12 | 32 | 18 | 1246 | 4513 | |
| | | | ON | 2 | 20 | 1 | 90 | 48W | 816944 | 846960 | 20 | 18 | 50 | 23 | 1247 | 6782 | |
| 167 | 7 | 1 | OFF | 2 | 14 | 25 | 90 | 37W | 876640 | 908944 | 20 | 18 | 51 | 45 | 1249 | 6790 | |
| | | | ON | 2 | 39 | 30 | 115 | 34W | 672368 | 696912 | 20 | 20 | 19 | 50 | 1237 | 7319 | |
| 172 | 5 | 6 | OFF | 2 | 36 | 8 | 115 | 18W | 690672 | 715904 | 20 | 20 | 20 | 39 | 1239 | 7323 | |
| | | | ON | 2 | 47 | 45 | 125 | 18E | 644320 | 667808 | 21 | 4 | 8 | 42 | 1229 | 1492 | |
| | | | OFF | 2 | 37 | 2 | 126 | 22E | 692832 | 718144 | 21 | 4 | 11 | 17 | 1236 | 1507 | |

| | | | | | | | | | | | | | | | | | |
|-----|---|---|-----|-----|---|----|----|-----|-----|---------|---------|----|----|----|----|------|-------|
| 173 | 4 | 3 | 62 | ON | 2 | 60 | 11 | 99 | 10E | 626240 | 649056 | 21 | 5 | 39 | 52 | 1216 | 2039 |
| | | | | OFF | 2 | 50 | 7 | 101 | 18E | 638368 | 661632 | 21 | 5 | 42 | 18 | 1227 | 2053 |
| 173 | 4 | 6 | 93 | ON | 2 | 31 | 57 | 103 | 3E | 728304 | 754960 | 21 | 5 | 46 | 41 | 1238 | 2080 |
| | | | | OFF | 2 | 13 | 1 | 103 | 51E | 912016 | 945696 | 21 | 5 | 51 | 17 | 1246 | 2107 |
| 174 | 4 | 1 | 47 | ON | 2 | 81 | 39 | 49 | 24E | 692192 | 717472 | 21 | 7 | 8 | 34 | 1026 | 2571 |
| | | | | OFF | 2 | 74 | 30 | 66 | 53E | 654704 | 678576 | 21 | 7 | 10 | 29 | 1138 | 2582 |
| 174 | 4 | 4 | 38 | ON | 2 | 55 | 38 | 76 | 39E | 628704 | 651600 | 21 | 7 | 15 | 8 | 1221 | 2610 |
| | | | | OFF | 2 | 49 | 13 | 77 | 47E | 641456 | 664832 | 21 | 7 | 16 | 41 | 1227 | 2620 |
| 175 | 5 | 3 | 40 | ON | 2 | 61 | 10 | 51 | 34E | 626400 | 649216 | 21 | 8 | 47 | 57 | 1214 | 3167 |
| | | | | OFF | 2 | 54 | 32 | 53 | 14E | 630480 | 653440 | 21 | 8 | 49 | 33 | 1222 | 3177 |
| 175 | 5 | 5 | 48 | ON | 2 | 45 | 35 | 54 | 37E | 654512 | 678384 | 21 | 8 | 51 | 43 | 1230 | 3190 |
| | | | | OFF | 2 | 37 | 6 | 55 | 25E | 696848 | 722320 | 21 | 8 | 53 | 46 | 1235 | 3202 |
| 176 | 6 | 3 | 39 | ON | 2 | 33 | 3 | 32 | 3E | 725680 | 752240 | 21 | 10 | 28 | 54 | 1237 | 3773 |
| | | | | OFF | 2 | 26 | 10 | 32 | 25E | 781376 | 810032 | 21 | 10 | 30 | 34 | 1240 | 3783 |
| 187 | 4 | 4 | 19 | ON | 2 | 53 | 9 | 129 | 44E | 641536 | 664912 | 22 | 3 | 39 | 44 | 1218 | 1318 |
| | | | | OFF | 2 | 49 | 54 | 130 | 17E | 651584 | 675344 | 22 | 3 | 40 | 31 | 1221 | 1323 |
| 187 | 4 | 5 | 32 | ON | 2 | 46 | 21 | 130 | 46E | 665632 | 689920 | 22 | 3 | 41 | 23 | 1224 | 1328 |
| | | | | OFF | 2 | 40 | 56 | 131 | 20E | 693392 | 718720 | 22 | 3 | 42 | 41 | 1228 | 1336 |
| 188 | 5 | 5 | 167 | ON | 2 | 48 | 30 | 106 | 51E | 657792 | 681792 | 22 | 5 | 15 | 0 | 1222 | 1890 |
| | | | | OFF | 2 | 16 | 7 | 109 | 3E | 917800 | 951712 | 22 | 5 | 22 | 51 | 1239 | 1937 |
| 189 | 5 | 1 | 6 | ON | 1 | 22 | 58 | 82 | 21W | 1541312 | 1599936 | 22 | 6 | 22 | 20 | 052 | 2294 |
| | | | | OFF | 1 | 24 | 51 | 82 | 17W | 1510096 | 1567456 | 22 | 6 | 22 | 51 | 053 | 2297 |
| 189 | 6 | 6 | 33 | ON | 2 | 54 | 4 | 82 | 17E | 640736 | 664080 | 22 | 6 | 47 | 48 | 1216 | 2446 |
| | | | | OFF | 2 | 48 | 7 | 83 | 15E | 660416 | 684512 | 22 | 6 | 49 | 14 | 1222 | 2455 |
| 190 | 5 | 5 | 78 | ON | 2 | 58 | 31 | 57 | 38E | 632496 | 655536 | 22 | 8 | 20 | 52 | 1211 | 3005 |
| | | | | OFF | 2 | 45 | 28 | 59 | 56E | 673472 | 698048 | 22 | 8 | 24 | 1 | 1223 | 3024 |
| 191 | 3 | 2 | 42 | ON | 2 | 59 | 35 | 33 | 42E | 631536 | 654544 | 22 | 9 | 54 | 45 | 12 | 9 |
| | | | | OFF | 2 | 52 | 35 | 35 | 16E | 646512 | 670080 | 22 | 9 | 56 | 27 | 1217 | 3578 |
| 203 | 5 | 2 | 36 | ON | 2 | 55 | 22 | 111 | 2E | 648384 | 672032 | 23 | 4 | 45 | 21 | 12 | 9 |
| | | | | OFF | 2 | 49 | 11 | 112 | 7E | 672384 | 696928 | 23 | 4 | 46 | 51 | 1215 | 1721 |
| 203 | 5 | 6 | 25 | ON | 2 | 33 | 49 | 113 | 36E | 774080 | 802464 | 23 | 4 | 50 | 34 | 1225 | 17434 |
| | | | | OFF | 2 | 28 | 50 | 113 | 54E | 819536 | 849648 | 23 | 4 | 51 | 47 | 1227 | 17507 |
| 214 | 3 | 6 | 34 | ON | 2 | 44 | 11 | 89 | 6E | 700464 | 726064 | 23 | 6 | 22 | 11 | 1218 | 22931 |
| | | | | OFF | 2 | 37 | 50 | 89 | 41E | 743664 | 770896 | 23 | 6 | 23 | 43 | 1222 | 23023 |
| 205 | 5 | 5 | 88 | ON | 2 | 58 | 33 | 63 | 1E | 641296 | 664672 | 23 | 7 | 52 | 50 | 12 | 4 |
| | | | | OFF | 2 | 43 | 23 | 65 | 32E | 707056 | 732912 | 23 | 7 | 56 | 30 | 1218 | 28590 |
| 206 | 5 | 3 | 150 | ON | 2 | 65 | 6 | 37 | 10E | 631376 | 654368 | 23 | 9 | 25 | 21 | 1154 | 33921 |
| | | | | OFF | 2 | 39 | 25 | 42 | 17E | 735728 | 762656 | 23 | 9 | 31 | 34 | 1220 | 34294 |
| 213 | 2 | 0 | 9 | ON | 2 | 32 | 37 | 122 | 41W | 808128 | 837808 | 23 | 20 | 32 | 2 | 1221 | 73922 |
| | | | | OFF | 2 | 31 | 21 | 122 | 37W | 820272 | 850416 | 23 | 20 | 32 | 21 | 1221 | 73941 |

OPERATIONS SUMMARY

| AFT PAN CAMERA NUMBER 209 | | | | | | | | | | | | | | | | | |
|---------------------------|----|-----|---|-----|------|--------|-------|-----|-----|--------|--------|------|-------|---|----|------|-------|
| OPN | NO | FRA | Q | LAT | LONG | HEIGHT | RANGE | DA | H | M | S | LTIM | S-TIM | | | | |
| 84 | 5 | 8 | 6 | ON | 2 | 10 | 33 | 50 | 4E | 732832 | 759648 | 15 | 10 | 5 | 51 | 1325 | 36351 |
| | | | | OFF | 2 | 9 | 37 | 50 | 5E | 740784 | 767904 | 15 | 10 | 6 | 5 | 1326 | 36365 |
| 91 | 0 | 0 | 4 | ON | 2 | 32 | 27 | 116 | 34W | 624000 | 646720 | 15 | 21 | 0 | 27 | 1313 | 75627 |
| | | | | OFF | 2 | 30 | 57 | 116 | 28W | 627920 | 650784 | 15 | 21 | 0 | 50 | 1314 | 75650 |
| 93 | 0 | 0 | 4 | ON | 2 | 64 | 4 | 169 | 7W | 687456 | 712576 | 16 | 0 | 1 | 19 | 1244 | 79 |
| | | | | OFF | 2 | 62 | 37 | 168 | 34W | 678608 | 703376 | 16 | 0 | 1 | 42 | 1247 | 102 |

| | | | | | | | | | | | | | | | | | | |
|-----|---|---|-----|-----|---|----|----|-----|-----|---------|---------|----|----|----|----|------|------|------|
| 96 | 5 | 3 | 189 | ON | 2 | 70 | 48 | 116 | 12E | 729008 | 755696 | 16 | 4 | 42 | 37 | 1227 | 1695 | |
| | | | | OFF | 2 | 51 | 17 | 123 | 7E | 627456 | 650304 | 16 | 4 | 47 | 21 | 1259 | 1724 | |
| 96 | 5 | 6 | 54 | ON | 2 | 47 | 55 | 123 | 36E | 620096 | 642672 | 16 | 4 | 48 | 10 | 13 | 2 | 1729 |
| | | | | OFF | 2 | 39 | 6 | 124 | 33E | 616000 | 638416 | 16 | 4 | 50 | 17 | 13 | 8 | 1741 |
| 97 | 8 | 5 | 33 | ON | 2 | 43 | 28 | 100 | 28E | 615328 | 637728 | 16 | 6 | 23 | 31 | 13 | 5 | 2301 |
| | | | | OFF | 2 | 38 | 4 | 100 | 57E | 617360 | 639840 | 16 | 6 | 24 | 49 | 13 | 8 | 2308 |
| 97 | 8 | 7 | 51 | ON | 2 | 25 | 36 | 101 | 43E | 654544 | 678416 | 16 | 6 | 27 | 49 | 1314 | 2326 | |
| | | | | OFF | 2 | 16 | 46 | 102 | 3E | 708496 | 734400 | 16 | 6 | 29 | 58 | 1318 | 2339 | |
| 98 | 5 | 7 | 106 | ON | 2 | 51 | 23 | 75 | 45E | 626736 | 649568 | 16 | 7 | 55 | 52 | 1258 | 2855 | |
| | | | | OFF | 2 | 34 | 6 | 77 | 34E | 624944 | 647696 | 16 | 8 | 0 | 2 | 1310 | 2880 | |
| 99 | 2 | 0 | 13 | ON | 1 | 38 | 52 | 112 | 9W | 1633488 | 1695904 | 16 | 9 | 8 | 7 | 139 | 3288 | |
| | | | | OFF | 1 | 41 | 54 | 111 | 54W | 1583712 | 1644080 | 16 | 9 | 8 | 55 | 141 | 3293 | |
| 99 | 2 | 4 | 24 | ON | 2 | 56 | 8 | 51 | 11E | 641104 | 664464 | 16 | 9 | 28 | 59 | 1253 | 3413 | |
| | | | | OFF | 2 | 52 | 2 | 51 | 58E | 627952 | 650816 | 16 | 9 | 29 | 59 | 1257 | 3419 | |
| 100 | 5 | 2 | 37 | ON | 2 | 54 | 57 | 27 | 45E | 636192 | 659360 | 16 | 11 | 3 | 33 | 1254 | 3981 | |
| | | | | OFF | 2 | 48 | 37 | 28 | 49E | 620272 | 642848 | 16 | 11 | 5 | 5 | 13 | 0 | 3990 |
| 105 | 9 | 4 | 20 | ON | 2 | 16 | 2 | 87 | 18W | 729712 | 756416 | 16 | 19 | 4 | 17 | 1314 | 6865 | |
| | | | | OFF | 2 | 12 | 19 | 87 | 12W | 761760 | 789680 | 16 | 19 | 5 | 12 | 1316 | 6871 | |
| 106 | 9 | 2 | 19 | ON | 2 | 35 | 19 | 111 | 53W | 628112 | 650992 | 16 | 20 | 33 | 52 | 13 | 6 | 7403 |
| | | | | OFF | 2 | 32 | 3 | 111 | 40W | 638112 | 661360 | 16 | 20 | 34 | 40 | 13 | 7 | 7408 |
| 111 | 4 | 4 | 16 | ON | 2 | 53 | 3 | 127 | 43E | 625632 | 648416 | 17 | 4 | 20 | 52 | 1251 | 1565 | |
| | | | | OFF | 2 | 50 | 17 | 128 | 10E | 620848 | 643440 | 17 | 4 | 21 | 32 | 1254 | 1569 | |
| 112 | 3 | 3 | 58 | ON | 2 | 57 | 39 | 103 | 4E | 637584 | 660816 | 17 | 5 | 54 | 1 | 1246 | 2124 | |
| | | | | OFF | 2 | 47 | 55 | 104 | 49E | 618416 | 640928 | 17 | 5 | 56 | 22 | 1255 | 2130 | |
| 112 | 3 | 8 | 50 | ON | 2 | 23 | 28 | 106 | 42E | 688384 | 713520 | 17 | 6 | 2 | 16 | 13 | 8 | 2173 |
| | | | | OFF | 2 | 14 | 20 | 107 | 1E | 758720 | 786528 | 17 | 6 | 4 | 30 | 1312 | 2187 | |
| 113 | 3 | 1 | 8 | ON | 1 | 25 | 19 | 84 | 22W | 1793728 | 1862768 | 17 | 7 | 4 | 17 | 126 | 2545 | |
| | | | | OFF | 1 | 27 | 18 | 84 | 17W | 1761232 | 1828928 | 17 | 7 | 4 | 49 | 127 | 2548 | |
| 113 | 8 | 6 | 85 | ON | 2 | 52 | 40 | 80 | 26E | 624192 | 646928 | 17 | 7 | 29 | 28 | 1251 | 2696 | |
| | | | | OFF | 2 | 38 | 41 | 82 | 8E | 625280 | 648048 | 17 | 7 | 32 | 50 | 13 | 1 | 2717 |
| 114 | 6 | 4 | 26 | ON | 2 | 60 | 42 | 54 | 54E | 647200 | 670800 | 17 | 9 | 1 | 46 | 1241 | 3250 | |
| | | | | OFF | 2 | 56 | 18 | 56 | 3E | 632288 | 655312 | 17 | 9 | 2 | 50 | 1246 | 3257 | |
| 115 | 5 | 4 | 17 | ON | 2 | 58 | 34 | 31 | 50E | 638656 | 661936 | 17 | 10 | 36 | 32 | 1243 | 3819 | |
| | | | | OFF | 2 | 55 | 39 | 32 | 31E | 630048 | 652992 | 17 | 10 | 37 | 14 | 1247 | 3823 | |
| 115 | 5 | 7 | 19 | ON | 2 | 33 | 34 | 35 | 10E | 641536 | 664912 | 17 | 10 | 42 | 35 | 13 | 3 | 3855 |
| | | | | OFF | 2 | 30 | 13 | 35 | 22E | 655408 | 679312 | 17 | 10 | 43 | 24 | 13 | 4 | 3860 |
| 126 | 4 | 3 | 33 | ON | 2 | 64 | 42 | 129 | 26E | 653152 | 676976 | 18 | 3 | 51 | 40 | 1229 | 1390 | |
| | | | | OFF | 2 | 59 | 9 | 131 | 19E | 633680 | 656768 | 18 | 3 | 53 | 1 | 1238 | 1398 | |
| 127 | 4 | 5 | 22 | ON | 2 | 50 | 52 | 109 | 23E | 620224 | 642800 | 18 | 5 | 29 | 16 | 1246 | 1975 | |
| | | | | OFF | 2 | 47 | 12 | 109 | 54E | 620464 | 643056 | 18 | 5 | 30 | 9 | 1249 | 1980 | |
| 128 | 5 | 5 | 96 | ON | 2 | 55 | 47 | 84 | 49E | 625472 | 648256 | 18 | 7 | 2 | 18 | 1241 | 2533 | |
| | | | | OFF | 2 | 40 | 3 | 87 | 0E | 632608 | 655648 | 18 | 7 | 6 | 6 | 1253 | 2556 | |
| 129 | 3 | 5 | 91 | ON | 2 | 57 | 24 | 60 | 47E | 628256 | 651136 | 18 | 8 | 36 | 8 | 1239 | 3096 | |
| | | | | OFF | 2 | 42 | 36 | 63 | 5E | 627376 | 650224 | 18 | 8 | 39 | 43 | 1251 | 3118 | |
| 130 | 5 | 1 | 22 | ON | 2 | 70 | 45 | 31 | 21E | 678672 | 703456 | 18 | 10 | 7 | 6 | 1212 | 3642 | |
| | | | | OFF | 2 | 67 | 0 | 33 | 42E | 659664 | 683728 | 18 | 10 | 8 | 1 | 1222 | 3648 | |
| 130 | 5 | 4 | 123 | ON | 2 | 60 | 19 | 36 | 20E | 634976 | 658112 | 18 | 10 | 9 | 39 | 1234 | 3657 | |
| | | | | OFF | 2 | 48 | 21 | 39 | 38E | 633456 | 656528 | 18 | 10 | 14 | 29 | 1252 | 3686 | |
| 130 | 5 | 7 | 24 | ON | 2 | 28 | 30 | 40 | 27E | 685328 | 710352 | 18 | 10 | 17 | 21 | 1258 | 3704 | |
| | | | | OFF | 2 | 24 | 18 | 40 | 38E | 713296 | 739376 | 18 | 10 | 18 | 22 | 13 | 0 | 3710 |
| 131 | 3 | 1 | 15 | ON | 2 | 54 | 57 | 13 | 59E | 623616 | 646320 | 18 | 11 | 45 | 11 | 1240 | 4231 | |

| | | | | | | | | | | | | | | | | | |
|-----|---|---|--------|---|----|----|-----|-----|---------|---------|----|----|----|----|------|-------|-------|
| | | | OFF | 2 | 52 | 24 | 14 | 28E | 621184 | 643792 | 18 | 11 | 45 | 48 | 1243 | 42348 | |
| 141 | 3 | 1 | 25 ON | 2 | 75 | 17 | 126 | 25E | 690784 | 716016 | 19 | 3 | 22 | 22 | 1147 | 12142 | |
| | | | OFF | 2 | 71 | 7 | 130 | 46E | 667568 | 691936 | 19 | 3 | 23 | 25 | 12 | 6 | 12205 |
| 141 | 3 | 4 | 15 ON | 2 | 52 | 37 | 137 | 48E | 621712 | 644352 | 19 | 3 | 27 | 55 | 1238 | 12475 | |
| | | | OFF | 2 | 50 | 3 | 138 | 13E | 622656 | 645328 | 19 | 3 | 28 | 32 | 1241 | 12512 | |
| 142 | 6 | 3 | 47 ON | 2 | 56 | 14 | 113 | 26E | 623376 | 646080 | 19 | 5 | 1 | 15 | 1234 | 18075 | |
| | | | OFF | 2 | 48 | 27 | 114 | 47E | 624576 | 647312 | 19 | 5 | 3 | 8 | 1242 | 18188 | |
| 143 | 3 | 2 | 29 ON | 2 | 66 | 29 | 86 | 21E | 646000 | 669536 | 19 | 6 | 32 | 58 | 1218 | 23578 | |
| | | | OFF | 2 | 61 | 33 | 88 | 28E | 631568 | 654576 | 19 | 6 | 34 | 10 | 1227 | 23650 | |
| 144 | 5 | 6 | 88 ON | 2 | 51 | 14 | 67 | 3E | 622848 | 645520 | 19 | 8 | 10 | 53 | 1238 | 29453 | |
| | | | OFF | 2 | 36 | 18 | 68 | 42E | 662544 | 686704 | 19 | 8 | 14 | 30 | 1249 | 29670 | |
| 145 | 7 | 0 | 14 ON | 1 | 37 | 9 | 121 | 2W | 1462880 | 1518320 | 19 | 9 | 22 | 48 | 118 | 33768 | |
| | | | OFF | 1 | 40 | 10 | 120 | 48W | 1414800 | 1468304 | 19 | 9 | 23 | 35 | 120 | 33815 | |
| 145 | 7 | 2 | 128 ON | 2 | 66 | 58 | 38 | 47E | 646320 | 669872 | 19 | 9 | 41 | 15 | 1216 | 34875 | |
| | | | OFF | 2 | 46 | 15 | 44 | 6E | 629840 | 652784 | 19 | 9 | 46 | 16 | 1242 | 35176 | |
| 157 | 7 | 3 | 11 ON | 2 | 64 | 59 | 115 | 51E | 633600 | 656688 | 20 | 4 | 32 | 5 | 1215 | 16325 | |
| | | | OFF | 2 | 63 | 9 | 116 | 35E | 629936 | 652880 | 20 | 4 | 32 | 32 | 1218 | 16352 | |
| 157 | 7 | 4 | 59 ON | 2 | 60 | 36 | 117 | 26E | 626320 | 649136 | 20 | 4 | 33 | 9 | 1222 | 16389 | |
| | | | OFF | 2 | 50 | 51 | 119 | 34E | 628656 | 651552 | 20 | 4 | 35 | 31 | 1233 | 16531 | |
| 159 | 3 | 3 | 93 ON | 2 | 68 | 54 | 66 | 29E | 643040 | 666464 | 20 | 7 | 39 | 30 | 12 | 5 | 27570 |
| | | | OFF | 2 | 53 | 33 | 71 | 48E | 626112 | 648912 | 20 | 7 | 43 | 14 | 1230 | 27794 | |
| 159 | 3 | 7 | 17 ON | 2 | 47 | 44 | 72 | 42E | 636288 | 659472 | 20 | 7 | 44 | 39 | 1235 | 27879 | |
| | | | OFF | 2 | 44 | 50 | 73 | 4E | 644800 | 668304 | 20 | 7 | 45 | 21 | 1237 | 27921 | |
| 160 | 8 | 2 | 50 ON | 2 | 59 | 26 | 46 | 49E | 625120 | 647888 | 20 | 9 | 16 | 0 | 1223 | 33360 | |
| | | | OFF | 2 | 51 | 14 | 48 | 33E | 629552 | 652480 | 20 | 9 | 17 | 59 | 1232 | 33479 | |
| 160 | 8 | 7 | 27 ON | 2 | 16 | 26 | 51 | 8E | 852112 | 883472 | 20 | 9 | 26 | 28 | 1250 | 33988 | |
| | | | OFF | 2 | 10 | 37 | 51 | 18E | 920320 | 954304 | 20 | 9 | 27 | 55 | 1252 | 34075 | |
| 161 | 4 | 3 | 22 ON | 2 | 53 | 38 | 24 | 29E | 626816 | 649648 | 20 | 10 | 51 | 35 | 1229 | 39095 | |
| | | | OFF | 2 | 49 | 49 | 25 | 6E | 632848 | 655904 | 20 | 10 | 52 | 30 | 1232 | 39150 | |
| 162 | 2 | 3 | 33 ON | 2 | 32 | 11 | 3 | 9E | 714240 | 740352 | 20 | 12 | 30 | 58 | 1243 | 45058 | |
| | | | OFF | 2 | 25 | 53 | 3 | 28E | 763648 | 791648 | 20 | 12 | 32 | 31 | 1246 | 45151 | |
| 166 | 7 | 3 | 24 ON | 2 | 20 | 19 | 90 | 54W | 826112 | 856480 | 20 | 18 | 50 | 36 | 1246 | 67836 | |
| | | | OFF | 2 | 14 | 49 | 90 | 43W | 887008 | 919712 | 20 | 18 | 51 | 58 | 1248 | 67918 | |
| 167 | 7 | 1 | 18 ON | 2 | 39 | 35 | 115 | 38W | 677056 | 701776 | 20 | 20 | 20 | 3 | 1237 | 73203 | |
| | | | OFF | 2 | 36 | 15 | 115 | 22W | 696176 | 721600 | 20 | 20 | 20 | 52 | 1239 | 73252 | |
| 172 | 5 | 6 | 60 ON | 2 | 47 | 47 | 125 | 14E | 647312 | 670912 | 21 | 4 | 8 | 55 | 1229 | 14935 | |
| | | | OFF | 2 | 37 | 9 | 126 | 18E | 698384 | 723904 | 21 | 4 | 11 | 30 | 1236 | 15090 | |
| 173 | 4 | 3 | 61 ON | 2 | 60 | 11 | 99 | 7E | 626224 | 649040 | 21 | 5 | 40 | 5 | 1216 | 20405 | |
| | | | OFF | 2 | 50 | 8 | 101 | 14E | 640832 | 664176 | 21 | 5 | 42 | 31 | 1227 | 20551 | |
| 173 | 4 | 6 | 92 ON | 2 | 32 | 7 | 102 | 59E | 735104 | 762016 | 21 | 5 | 46 | 54 | 1238 | 20814 | |
| | | | OFF | 2 | 13 | 28 | 103 | 45E | 922912 | 957008 | 21 | 5 | 51 | 30 | 1246 | 21090 | |
| 174 | 4 | 1 | 47 ON | 2 | 81 | 43 | 48 | 55E | 687120 | 712208 | 21 | 7 | 8 | 47 | 1024 | 25727 | |
| | | | OFF | 2 | 74 | 33 | 66 | 46E | 651328 | 675072 | 21 | 7 | 10 | 42 | 1137 | 25842 | |
| 174 | 4 | 4 | 38 ON | 2 | 55 | 38 | 76 | 37E | 629856 | 652800 | 21 | 7 | 15 | 21 | 1221 | 26121 | |
| | | | OFF | 2 | 49 | 14 | 77 | 43E | 644224 | 667712 | 21 | 7 | 16 | 54 | 1227 | 26214 | |
| 175 | 5 | 3 | 46 ON | 2 | 61 | 10 | 51 | 32E | 626288 | 649104 | 21 | 8 | 48 | 10 | 1214 | 31690 | |
| | | | OFF | 2 | 54 | 33 | 53 | 11E | 631968 | 654992 | 21 | 8 | 49 | 46 | 1222 | 31786 | |
| 175 | 5 | 5 | 48 ON | 2 | 45 | 38 | 54 | 33E | 658192 | 682192 | 21 | 8 | 51 | 56 | 1229 | 31916 | |
| | | | OFF | 2 | 37 | 13 | 55 | 21E | 702560 | 728240 | 21 | 8 | 53 | 59 | 1235 | 32039 | |
| 176 | 6 | 3 | 38 ON | 2 | 33 | 13 | 31 | 58E | 732400 | 759200 | 21 | 10 | 29 | 7 | 1236 | 37747 | |
| | | | OFF | 2 | 26 | 25 | 32 | 20E | 789664 | 818640 | 21 | 10 | 30 | 47 | 1239 | 37847 | |

| | | | | | | | | | | | | | | | | | | |
|-----|---|---|-----|-----|---|----|----|-----|-----|---------|---------|----|----|----|----|------|-------|-------|
| 187 | 4 | 4 | 19 | ON | 2 | 53 | 11 | 129 | 41E | 644080 | 667552 | 22 | 3 | 39 | 57 | 1218 | 13197 | |
| | | | | OFF | 2 | 49 | 56 | 130 | 13E | 654896 | 678784 | 22 | 3 | 40 | 44 | 1221 | 13244 | |
| 187 | 4 | 5 | 31 | ON | 2 | 46 | 25 | 130 | 42E | 669808 | 694256 | 22 | 3 | 41 | 36 | 1224 | 13296 | |
| | | | | OFF | 2 | 41 | 2 | 131 | 15E | 698864 | 724400 | 22 | 3 | 42 | 54 | 1227 | 13374 | |
| 188 | 5 | 5 | 165 | ON | 2 | 48 | 33 | 106 | 46E | 661472 | 685600 | 22 | 5 | 15 | 13 | 1222 | 18913 | |
| | | | | OFF | 2 | 16 | 35 | 108 | 57E | 928688 | 962992 | 22 | 5 | 23 | 4 | 1238 | 19384 | |
| 189 | 5 | 1 | 6 | ON | 1 | 21 | 34 | 82 | 33W | 1527328 | 1585392 | 22 | 6 | 22 | 33 | 052 | 22953 | |
| | | | | OFF | 1 | 23 | 29 | 82 | 28W | 1496128 | 1552928 | 22 | 6 | 23 | 4 | 052 | 22984 | |
| 189 | 6 | 6 | 33 | ON | 2 | 54 | 5 | 82 | 14E | 643200 | 666640 | 22 | 6 | 48 | 1 | 1216 | 24481 | |
| | | | | OFF | 2 | 48 | 11 | 83 | 12E | 664256 | 688496 | 22 | 6 | 49 | 27 | 1221 | 24567 | |
| 190 | 5 | 5 | 77 | ON | 2 | 58 | 31 | 57 | 35E | 633920 | 657008 | 22 | 8 | 21 | 5 | 1211 | 30065 | |
| | | | | OFF | 2 | 45 | 32 | 59 | 52E | 678016 | 702768 | 22 | 8 | 24 | 14 | 1223 | 30254 | |
| 191 | 3 | 2 | 41 | ON | 2 | 59 | 36 | 33 | 40E | 632752 | 655808 | 22 | 9 | 54 | 58 | 12 | 9 | 35698 |
| | | | | OFF | 2 | 52 | 37 | 35 | 13E | 649424 | 673104 | 22 | 9 | 56 | 40 | 1217 | 35800 | |
| 203 | 5 | 2 | 36 | ON | 2 | 55 | 24 | 110 | 59E | 651312 | 675056 | 23 | 4 | 45 | 34 | 12 | 9 | 17134 |
| | | | | OFF | 2 | 49 | 16 | 112 | 2E | 676768 | 701472 | 23 | 4 | 47 | 4 | 1215 | 17224 | |
| 203 | 5 | 6 | 25 | ON | 2 | 34 | 3 | 113 | 32E | 781952 | 810640 | 23 | 4 | 50 | 47 | 1224 | 17447 | |
| | | | | OFF | 2 | 29 | 8 | 113 | 49E | 828464 | 858928 | 23 | 4 | 52 | 0 | 1227 | 17520 | |
| 204 | 3 | 6 | 33 | ON | 2 | 44 | 19 | 89 | 1E | 706080 | 731888 | 23 | 6 | 22 | 24 | 1218 | 22944 | |
| | | | | OFF | 2 | 38 | 2 | 89 | 36E | 750720 | 778224 | 23 | 6 | 23 | 56 | 1222 | 23036 | |
| 205 | 5 | 5 | 86 | ON | 2 | 58 | 34 | 62 | 58E | 643584 | 667040 | 23 | 7 | 53 | 3 | 12 | 4 | 28383 |
| | | | | OFF | 2 | 43 | 31 | 65 | 28E | 712864 | 738928 | 23 | 7 | 56 | 43 | 1218 | 28603 | |
| 206 | 5 | 3 | 147 | ON | 2 | 65 | 6 | 37 | 7E | 632192 | 655216 | 23 | 9 | 25 | 34 | 1153 | 33934 | |
| | | | | OFF | 2 | 39 | 36 | 42 | 12E | 742496 | 769680 | 23 | 9 | 31 | 47 | 1220 | 34307 | |
| 213 | 2 | 0 | 9 | ON | 2 | 32 | 54 | 122 | 46W | 816752 | 846768 | 23 | 20 | 32 | 15 | 1220 | 73935 | |
| | | | | OFF | 2 | 31 | 39 | 122 | 41W | 829120 | 859616 | 23 | 20 | 32 | 34 | 1221 | 73954 | |

PHOTOGRAPHIC SUMMARY

| FWD PAN CAMERA NO 208 0.2250 SLIT W/23A FILTER 3404 FILM | | | | | | | | | | | | | | | | | |
|--|-----|------|------|-------|-------|-----|-------|-------|-------|-------|-------|-------|--|--|--|--|--|
| OPN NO | FRA | FEET | ET | S-EL | S-DIR | EV | FULL | INT | PRI | | | | | | | | |
| 84 | 5 | 8 | 5 | 13.2 | ON | 256 | 66.7 | 118.6 | 11.85 | 12.42 | 11.82 | 11.22 | | | | | |
| | | | | | OFF | 254 | 66.2 | 120.5 | 11.84 | 12.42 | 11.82 | 11.22 | | | | | |
| 91 | 0 | 0 | 4 | 10.6 | ON | 72 | 67.8 | 62.9 | 10.03 | 12.42 | 11.82 | 11.22 | | | | | |
| | | | | | OFF | 72 | 68.4 | 66.3 | 10.03 | 12.42 | 11.82 | 11.22 | | | | | |
| 93 | 0 | 0 | 3 | 7.9 | ON | 72 | 44.1 | 27.9 | 10.03 | 12.41 | 11.81 | 11.21 | | | | | |
| | | | | | OFF | 72 | 45.4 | 28.6 | 10.03 | 12.41 | 11.81 | 11.21 | | | | | |
| 96 | 5 | 3 | 111 | 293.6 | ON | 237 | 38.2 | 25.1 | 11.74 | 12.38 | 11.78 | 11.18 | | | | | |
| | | | | | OFF | 276 | 55.3 | 35.2 | 11.96 | 12.42 | 11.82 | 11.22 | | | | | |
| 96 | 5 | 6 | 54 | 142.8 | ON | 280 | 58.0 | 38.3 | 11.98 | 12.42 | 11.82 | 11.22 | | | | | |
| | | | | | OFF | 287 | 64.5 | 49.4 | 12.02 | 12.42 | 11.82 | 11.22 | | | | | |
| 97 | 8 | 5 | 33 | 87.3 | ON | 288 | 61.5 | 43.0 | 12.02 | 12.42 | 11.82 | 11.22 | | | | | |
| | | | | | OFF | 257 | 65.2 | 50.9 | 12.02 | 12.42 | 11.82 | 11.22 | | | | | |
| 97 | 8 | 7 | 52 | 137.5 | ON | 278 | 70.7 | 79.5 | 11.97 | 12.42 | 11.82 | 11.22 | | | | | |
| | | | | | OFF | 264 | 76.3 | 105.0 | 11.90 | 12.42 | 11.82 | 11.22 | | | | | |
| 98 | 5 | 7 | 107 | 283.0 | ON | 284 | 55.3 | 34.8 | 12.00 | 12.42 | 11.82 | 11.22 | | | | | |
| | | | | | OFF | 286 | 67.6 | 58.2 | 12.01 | 12.42 | 11.82 | 11.22 | | | | | |
| 99 | 2 | 0 | 13 | 34.4 | ON | 172 | -25.8 | 21.2 | 11.28 | 0.0 | 0.0 | 0.0 | | | | | |
| | | | | | OFF | 176 | -23.0 | 20.7 | 11.32 | 0.0 | 0.0 | 0.0 | | | | | |
| 99 | 4 | 24 | 63.5 | 0 | ON | 279 | 51.3 | 31.2 | 11.98 | 12.42 | 11.82 | 11.22 | | | | | |
| | | | | | OFF | 283 | 54.8 | 34.1 | 12.00 | 12.42 | 11.82 | 11.22 | | | | | |

| | | | | | | | | | | | | |
|-----|---|---|-----|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 100 | 5 | 2 | 38 | 100.5 | ON | 278 | 52.4 | 31.8 | 11.97 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 284 | 57.6 | 36.9 | 12.00 | 12.42 | 11.82 | 11.22 |
| 105 | 9 | 4 | 20 | 52.9 | ON | 259 | 70.9 | 107.7 | 11.87 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 251 | 69.4 | 117.4 | 11.82 | 12.42 | 11.82 | 11.22 |
| 106 | 9 | 2 | 19 | 50.3 | ON | 285 | 67.6 | 54.4 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 283 | 69.3 | 61.4 | 11.99 | 12.42 | 11.82 | 11.22 |
| 111 | 4 | 4 | 16 | 42.3 | ON | 285 | 54.4 | 31.3 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 286 | 56.8 | 33.5 | 12.01 | 12.42 | 11.82 | 11.22 |
| 112 | 3 | 3 | 60 | 158.7 | ON | 282 | 50.4 | 28.2 | 11.99 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 288 | 58.8 | 35.5 | 12.02 | 12.42 | 11.82 | 11.22 |
| 112 | 3 | 8 | 51 | 134.9 | ON | 267 | 72.5 | 85.0 | 11.92 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 249 | 71.0 | 113.1 | 11.81 | 12.42 | 11.82 | 11.22 |
| 113 | 3 | 1 | 8 | 21.2 | ON | 159 | -38.6 | 22.6 | 11.17 | 0.0 | 0.0 | 0.0 |
| | | | | | OFF | 161 | -36.8 | 22.0 | 11.19 | 0.0 | 0.0 | 0.0 |
| 113 | 8 | 6 | 87 | 230.1 | ON | 285 | 54.8 | 31.3 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 286 | 65.9 | 47.0 | 12.01 | 12.42 | 11.82 | 11.22 |
| 114 | 6 | 4 | 26 | 68.8 | ON | 278 | 47.8 | 26.3 | 11.97 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 283 | 51.7 | 28.7 | 12.00 | 12.42 | 11.82 | 11.22 |
| 115 | 5 | 4 | 17 | 45.0 | ON | 279 | 49.7 | 27.3 | 11.97 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 282 | 52.3 | 29.0 | 11.99 | 12.42 | 11.82 | 11.22 |
| 115 | 5 | 7 | 20 | 52.9 | ON | 284 | 69.3 | 56.4 | 12.00 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 280 | 71.0 | 64.6 | 11.98 | 12.42 | 11.82 | 11.22 |
| 126 | 4 | 3 | 32 | 84.6 | ON | 265 | 44.4 | 22.9 | 11.90 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 274 | 49.5 | 25.3 | 11.95 | 12.42 | 11.82 | 11.22 |
| 127 | 4 | 5 | 22 | 58.2 | ON | 288 | 57.0 | 30.3 | 12.02 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 288 | 60.1 | 33.4 | 12.02 | 12.42 | 11.82 | 11.22 |
| 128 | 5 | 5 | 90 | 259.2 | ON | 286 | 52.6 | 26.8 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 284 | 65.9 | 41.9 | 12.00 | 12.42 | 11.82 | 11.22 |
| 129 | 3 | 5 | 92 | 243.3 | ON | 286 | 51.2 | 25.7 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 285 | 64.0 | 38.1 | 12.01 | 12.42 | 11.82 | 11.22 |
| 130 | 5 | 1 | 22 | 58.2 | ON | 268 | 38.7 | 20.6 | 11.92 | 12.38 | 11.78 | 11.18 |
| | | | | | OFF | 274 | 42.3 | 21.6 | 11.95 | 12.40 | 11.80 | 11.20 |
| 130 | 5 | 4 | 124 | 328.0 | ON | 281 | 48.6 | 24.1 | 11.99 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 283 | 65.8 | 41.0 | 12.00 | 12.42 | 11.82 | 11.22 |
| 130 | 5 | 7 | 24 | 63.5 | ON | 269 | 73.0 | 67.2 | 11.92 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 261 | 74.2 | 81.1 | 11.88 | 12.42 | 11.82 | 11.22 |
| 131 | 3 | 1 | 15 | 39.7 | ON | 285 | 53.5 | 26.8 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 286 | 55.8 | 28.4 | 12.01 | 12.42 | 11.82 | 11.22 |
| 141 | 3 | 1 | 25 | 66.1 | ON | 271 | 34.4 | 18.3 | 11.93 | 12.34 | 11.74 | 11.14 |
| | | | | | OFF | 277 | 38.5 | 19.0 | 11.97 | 12.38 | 11.78 | 11.18 |
| 141 | 3 | 4 | 15 | 39.7 | ON | 286 | 55.9 | 26.6 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 285 | 58.2 | 28.4 | 12.01 | 12.42 | 11.82 | 11.22 |
| 142 | 6 | 3 | 48 | 127.0 | ON | 286 | 52.7 | 24.2 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 284 | 59.7 | 29.5 | 12.00 | 12.42 | 11.82 | 11.22 |
| 143 | 3 | 2 | 30 | 79.3 | ON | 278 | 43.0 | 19.9 | 11.97 | 12.40 | 11.80 | 11.20 |
| | | | | | OFF | 282 | 47.7 | 21.6 | 11.99 | 12.42 | 11.82 | 11.22 |
| 144 | 5 | 6 | 90 | 238.0 | ON | 285 | 57.3 | 27.0 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 269 | 69.7 | 44.8 | 11.92 | 12.42 | 11.82 | 11.22 |
| 145 | 7 | 0 | 14 | 37.0 | ON | 197 | -28.7 | 16.2 | 11.47 | 0.0 | 0.0 | 0.0 |
| | | | | | OFF | 203 | -25.8 | 15.8 | 11.52 | 0.0 | 0.0 | 0.0 |
| 145 | 7 | 2 | 129 | 341.2 | ON | 283 | 42.6 | 19.5 | 12.00 | 12.40 | 11.80 | 11.20 |

| | | | | | | | | | | | | |
|-----|---|---|-----|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 157 | 7 | 3 | 11 | 29.1 | OFF | 280 | 61.7 | 30.9 | 11.98 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 280 | 44.7 | 18.4 | 11.98 | 12.41 | 11.81 | 11.21 |
| 157 | 7 | 4 | 59 | 156.1 | OFF | 281 | 46.5 | 19.0 | 11.99 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 283 | 48.9 | 19.9 | 12.00 | 12.42 | 11.82 | 11.22 |
| 159 | 3 | 3 | 96 | 253.9 | OFF | 286 | 58.1 | 24.9 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 284 | 41.0 | 17.1 | 12.00 | 12.39 | 11.79 | 11.19 |
| 159 | 3 | 7 | 17 | 45.0 | OFF | 284 | 55.7 | 22.8 | 12.00 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 279 | 61.0 | 26.8 | 11.98 | 12.42 | 11.82 | 11.22 |
| 160 | 8 | 2 | 50 | 132.2 | OFF | 276 | 63.6 | 29.4 | 11.96 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 286 | 50.1 | 19.9 | 12.01 | 12.42 | 11.82 | 11.22 |
| 160 | 8 | 7 | 27 | 71.4 | OFF | 284 | 57.8 | 24.1 | 12.00 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 222 | 76.4 | 113.3 | 11.65 | 12.42 | 11.82 | 11.22 |
| 161 | 4 | 3 | 23 | 60.8 | OFF | 285 | 73.1 | 131.8 | 11.53 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 286 | 55.6 | 22.4 | 12.01 | 12.42 | 11.82 | 11.22 |
| 162 | 2 | 3 | 34 | 89.9 | OFF | 286 | 59.2 | 24.8 | 12.01 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 254 | 73.8 | 49.9 | 11.84 | 12.42 | 11.82 | 11.22 |
| 166 | 7 | 3 | 25 | 66.1 | OFF | 239 | 77.0 | 71.6 | 11.75 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 220 | 78.0 | 97.1 | 11.64 | 12.42 | 11.82 | 11.22 |
| 167 | 7 | 1 | 19 | 50.3 | OFF | 204 | 76.2 | 120.6 | 11.53 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 265 | 68.5 | 33.9 | 11.90 | 12.42 | 11.82 | 11.22 |
| 172 | 5 | 6 | 62 | 164.0 | OFF | 258 | 71.3 | 39.4 | 11.87 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 276 | 61.5 | 24.2 | 11.96 | 12.42 | 11.82 | 11.22 |
| 173 | 4 | 3 | 62 | 164.0 | OFF | 258 | 70.8 | 36.5 | 11.86 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 286 | 49.7 | 17.5 | 12.01 | 12.42 | 11.82 | 11.22 |
| 173 | 4 | 6 | 93 | 246.0 | OFF | 279 | 59.3 | 22.3 | 11.98 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 249 | 74.7 | 47.2 | 11.81 | 12.42 | 11.82 | 11.22 |
| 174 | 4 | 1 | 47 | 124.3 | OFF | 199 | 76.0 | 126.9 | 11.49 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 273 | 27.7 | 14.7 | 11.94 | 12.26 | 11.66 | 11.06 |
| 174 | 4 | 4 | 38 | 100.5 | OFF | 282 | 35.5 | 14.2 | 11.99 | 12.35 | 11.75 | 11.15 |
| | | | | | ON | 283 | 54.1 | 19.2 | 12.00 | 12.42 | 11.82 | 11.22 |
| 175 | 5 | 3 | 40 | 105.8 | OFF | 277 | 60.2 | 22.7 | 11.97 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 286 | 48.8 | 16.9 | 12.01 | 12.42 | 11.82 | 11.22 |
| 175 | 5 | 5 | 48 | 127.0 | OFF | 283 | 55.2 | 19.5 | 12.00 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 273 | 63.5 | 25.3 | 11.94 | 12.42 | 11.82 | 11.22 |
| 176 | 6 | 3 | 39 | 103.2 | OFF | 258 | 70.9 | 35.6 | 11.86 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 268 | 74.2 | 43.6 | 11.92 | 12.42 | 11.82 | 11.22 |
| 187 | 4 | 4 | 19 | 50.3 | OFF | 254 | 78.2 | 66.8 | 11.84 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 284 | 56.8 | 18.0 | 12.00 | 12.42 | 11.82 | 11.22 |
| 187 | 4 | 5 | 32 | 84.6 | OFF | 281 | 59.9 | 19.7 | 11.99 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 277 | 63.2 | 22.1 | 11.97 | 12.42 | 11.82 | 11.22 |
| 188 | 5 | 5 | 167 | 441.7 | OFF | 269 | 68.2 | 27.1 | 11.93 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 271 | 61.3 | 20.4 | 11.94 | 12.42 | 11.82 | 11.22 |
| 189 | 6 | 1 | 6 | 15.9 | OFF | 193 | 79.0 | 118.8 | 11.45 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 118 | -44.6 | 13.6 | 10.74 | 0.0 | 0.0 | 0.0 |
| 189 | 6 | 6 | 33 | 87.3 | OFF | 122 | -42.6 | 13.1 | 10.79 | 0.0 | 0.0 | 0.0 |
| | | | | | ON | 272 | 56.0 | 17.2 | 11.94 | 12.42 | 11.82 | 11.22 |
| 190 | 5 | 5 | 70 | 236.3 | OFF | 262 | 61.6 | 20.4 | 11.89 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 283 | 51.7 | 15.4 | 12.00 | 12.42 | 11.82 | 11.22 |
| 191 | 3 | 2 | 42 | 111.1 | OFF | 267 | 64.2 | 22.1 | 11.92 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 282 | 50.6 | 14.9 | 11.99 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 274 | 57.4 | 17.5 | 11.95 | 12.42 | 11.82 | 11.22 |

| | | | | | | | | | | | | |
|-----|---|---|-----|-------|-----|-----|------|------|-------|-------|-------|-------|
| 203 | 5 | 2 | 36 | 95.2 | ON | 281 | 55.0 | 14.2 | 11.99 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 274 | 61.0 | 16.9 | 11.95 | 12.42 | 11.82 | 11.22 |
| 203 | 5 | 6 | 25 | 66.1 | ON | 244 | 75.2 | 33.2 | 11.79 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 232 | 79.0 | 47.4 | 11.71 | 12.42 | 11.82 | 11.22 |
| 204 | 3 | 6 | 34 | 89.9 | ON | 256 | 65.8 | 19.8 | 11.85 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 242 | 71.7 | 26.2 | 11.77 | 12.42 | 11.82 | 11.22 |
| 205 | 5 | 5 | 88 | 232.8 | ON | 279 | 51.9 | 12.9 | 11.98 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 254 | 66.6 | 20.2 | 11.84 | 12.42 | 11.82 | 11.22 |
| 206 | 5 | 3 | 150 | 396.7 | ON | 284 | 45.4 | 11.3 | 12.00 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 244 | 70.3 | 23.7 | 11.78 | 12.42 | 11.82 | 11.22 |
| 213 | 2 | 0 | 9 | 23.8 | ON | 222 | 76.7 | 32.2 | 11.65 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 219 | 77.8 | 35.3 | 11.63 | 12.42 | 11.82 | 11.22 |

PHOTOGRAPHIC SUMMARY

| AFT PAN CAMERA NO 209 0.1750 SLIT W/21 FILTER 3404 FILM | | | | | | | | | | | | |
|---|-----|------|-----|-------|-------|-----|-------|-------|-------|-------|-------|-------|
| OPN NO | FRA | FEET | ET | S-EL | S-DIR | EV | FULL | INT | PRI | | | |
| 84 | 5 | 8 | 6 | 15.9 | ON | 326 | 66.8 | 118.3 | 12.20 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 324 | 66.3 | 120.2 | 12.19 | 12.75 | 12.15 | 11.55 |
| 91 | 0 | 0 | 4 | 10.6 | ON | 95 | 67.9 | 62.7 | 10.43 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 95 | 68.5 | 66.1 | 10.43 | 12.75 | 12.15 | 11.55 |
| 93 | 0 | 0 | 4 | 10.6 | ON | 95 | 44.1 | 27.3 | 10.43 | 12.74 | 12.14 | 11.54 |
| | | | | | OFF | 95 | 45.4 | 28.0 | 10.43 | 12.74 | 12.14 | 11.54 |
| 96 | 5 | 3 | 109 | 288.3 | ON | 302 | 38.1 | 24.1 | 12.09 | 12.70 | 12.10 | 11.50 |
| | | | | | OFF | 351 | 55.3 | 34.9 | 12.31 | 12.75 | 12.15 | 11.55 |
| 96 | 5 | 6 | 54 | 142.8 | ON | 357 | 58.0 | 38.0 | 12.33 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 365 | 64.5 | 49.3 | 12.36 | 12.75 | 12.15 | 11.55 |
| 97 | 8 | 5 | 33 | 87.3 | ON | 366 | 61.5 | 42.9 | 12.37 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 366 | 65.2 | 50.8 | 12.37 | 12.75 | 12.15 | 11.55 |
| 97 | 8 | 7 | 51 | 134.9 | ON | 354 | 70.7 | 79.3 | 12.32 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 336 | 70.4 | 104.6 | 12.25 | 12.75 | 12.15 | 11.55 |
| 98 | 5 | 7 | 106 | 280.4 | ON | 361 | 55.3 | 34.5 | 12.35 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 363 | 67.6 | 58.1 | 12.36 | 12.75 | 12.15 | 11.55 |
| 99 | 2 | 0 | 13 | 34.4 | ON | 220 | -27.3 | 21.1 | 11.63 | 0.0 | 0.0 | 0.0 |
| | | | | | OFF | 226 | -24.5 | 20.6 | 11.67 | 0.0 | 0.0 | 0.0 |
| 99 | 2 | 4 | 24 | 63.5 | ON | 356 | 51.3 | 30.9 | 12.33 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 361 | 54.8 | 33.8 | 12.35 | 12.75 | 12.15 | 11.55 |
| 100 | 5 | 2 | 37 | 97.9 | ON | 354 | 52.4 | 31.5 | 12.32 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 362 | 57.7 | 36.7 | 12.35 | 12.75 | 12.15 | 11.55 |
| 105 | 9 | 4 | 20 | 52.9 | ON | 330 | 71.0 | 107.2 | 12.22 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 319 | 69.6 | 116.9 | 12.17 | 12.75 | 12.15 | 11.55 |
| 106 | 9 | 2 | 19 | 50.3 | ON | 363 | 67.6 | 54.2 | 12.36 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 360 | 69.3 | 61.3 | 12.34 | 12.75 | 12.15 | 11.55 |
| 111 | 4 | 4 | 16 | 42.3 | ON | 363 | 54.4 | 31.1 | 12.35 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 365 | 56.8 | 33.3 | 12.36 | 12.75 | 12.15 | 11.55 |
| 112 | 3 | 3 | 58 | 153.4 | ON | 359 | 50.4 | 27.9 | 12.34 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 366 | 58.8 | 35.2 | 12.37 | 12.75 | 12.15 | 11.55 |
| 112 | 3 | 8 | 50 | 132.2 | ON | 341 | 72.5 | 84.6 | 12.26 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 317 | 71.1 | 112.6 | 12.16 | 12.75 | 12.15 | 11.55 |
| 113 | 3 | 1 | 8 | 21.2 | ON | 204 | -40.4 | 22.9 | 11.53 | 0.0 | 0.0 | 0.0 |
| | | | | | OFF | 207 | -38.5 | 22.3 | 11.55 | 0.0 | 0.0 | 0.0 |

| | | | | | | | | | | | | |
|-----|---|---|-----|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 113 | 8 | 6 | 85 | 224.8 | ON | 363 | 54.9 | 31.0 | 12.36 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 364 | 65.9 | 46.8 | 12.36 | 12.75 | 12.15 | 11.55 |
| 114 | 6 | 4 | 26 | 68.8 | ON | 354 | 47.7 | 26.0 | 12.32 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 360 | 51.7 | 28.4 | 12.34 | 12.75 | 12.15 | 11.55 |
| 115 | 5 | 4 | 17 | 45.0 | ON | 355 | 49.7 | 26.9 | 12.32 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 359 | 52.3 | 28.7 | 12.34 | 12.75 | 12.15 | 11.55 |
| 115 | 5 | 7 | 19 | 50.3 | ON | 361 | 69.3 | 56.2 | 12.35 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 357 | 71.0 | 64.3 | 12.33 | 12.75 | 12.15 | 11.55 |
| 126 | 4 | 3 | 33 | 87.3 | ON | 338 | 44.3 | 22.4 | 12.25 | 12.74 | 12.14 | 11.54 |
| | | | | | OFF | 349 | 49.5 | 24.9 | 12.30 | 12.75 | 12.15 | 11.55 |
| 127 | 4 | 5 | 22 | 58.2 | ON | 366 | 57.0 | 30.0 | 12.37 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 366 | 60.1 | 33.2 | 12.37 | 12.75 | 12.15 | 11.55 |
| 128 | 5 | 5 | 96 | 253.9 | ON | 364 | 52.6 | 26.5 | 12.36 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 362 | 65.9 | 41.7 | 12.35 | 12.75 | 12.15 | 11.55 |
| 129 | 3 | 5 | 91 | 240.7 | ON | 364 | 51.2 | 25.4 | 12.36 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 363 | 64.0 | 37.9 | 12.36 | 12.75 | 12.15 | 11.55 |
| 130 | 5 | 1 | 22 | 58.2 | ON | 340 | 38.6 | 19.7 | 12.26 | 12.71 | 12.11 | 11.51 |
| | | | | | OFF | 348 | 42.2 | 21.0 | 12.29 | 12.73 | 12.13 | 11.53 |
| 130 | 5 | 4 | 123 | 325.3 | ON | 357 | 48.5 | 23.8 | 12.33 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 359 | 65.8 | 40.8 | 12.34 | 12.75 | 12.15 | 11.55 |
| 130 | 5 | 7 | 24 | 63.5 | ON | 341 | 73.0 | 66.7 | 12.27 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 332 | 74.2 | 80.6 | 12.23 | 12.75 | 12.15 | 11.55 |
| 131 | 3 | 1 | 15 | 39.7 | ON | 362 | 53.5 | 26.5 | 12.35 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 363 | 55.8 | 28.2 | 12.36 | 12.75 | 12.15 | 11.55 |
| 141 | 3 | 1 | 25 | 66.1 | ON | 344 | 34.3 | 16.9 | 12.28 | 12.67 | 12.07 | 11.47 |
| | | | | | OFF | 352 | 38.5 | 18.2 | 12.31 | 12.71 | 12.11 | 11.51 |
| 141 | 3 | 4 | 15 | 39.7 | ON | 363 | 56.0 | 26.3 | 12.35 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 361 | 58.3 | 28.1 | 12.35 | 12.75 | 12.15 | 11.55 |
| 142 | 6 | 3 | 47 | 124.3 | ON | 363 | 52.7 | 24.0 | 12.36 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 360 | 59.7 | 29.3 | 12.34 | 12.75 | 12.15 | 11.55 |
| 143 | 3 | 2 | 29 | 76.7 | ON | 353 | 43.0 | 19.4 | 12.31 | 12.73 | 12.13 | 11.53 |
| | | | | | OFF | 359 | 47.7 | 21.2 | 12.34 | 12.75 | 12.15 | 11.55 |
| 144 | 5 | 6 | 88 | 232.8 | ON | 362 | 57.3 | 26.7 | 12.35 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 342 | 69.7 | 44.5 | 12.27 | 12.75 | 12.15 | 11.55 |
| 145 | 7 | 0 | 14 | 37.0 | ON | 251 | -30.0 | 16.2 | 11.82 | 0.0 | 0.0 | 0.0 |
| | | | | | OFF | 258 | -27.1 | 15.7 | 11.87 | 0.0 | 0.0 | 0.0 |
| 145 | 7 | 2 | 128 | 338.6 | ON | 360 | 42.6 | 18.9 | 12.34 | 12.73 | 12.13 | 11.53 |
| | | | | | OFF | 355 | 61.7 | 30.7 | 12.32 | 12.75 | 12.15 | 11.55 |
| 157 | 7 | 3 | 11 | 29.1 | ON | 355 | 44.7 | 17.9 | 12.32 | 12.74 | 12.14 | 11.54 |
| | | | | | OFF | 357 | 46.5 | 18.6 | 12.33 | 12.75 | 12.15 | 11.55 |
| 157 | 7 | 4 | 59 | 156.1 | ON | 360 | 49.0 | 19.5 | 12.34 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 363 | 58.1 | 24.6 | 12.36 | 12.75 | 12.15 | 11.55 |
| 159 | 3 | 3 | 93 | 246.0 | ON | 358 | 40.9 | 16.4 | 12.34 | 12.72 | 12.12 | 11.52 |
| | | | | | OFF | 359 | 55.7 | 22.6 | 12.34 | 12.75 | 12.15 | 11.55 |
| 159 | 3 | 7 | 17 | 45.0 | ON | 353 | 61.0 | 26.6 | 12.31 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 348 | 63.6 | 29.2 | 12.30 | 12.75 | 12.15 | 11.55 |
| 160 | 8 | 2 | 50 | 132.2 | ON | 362 | 50.1 | 19.5 | 12.35 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 359 | 57.8 | 23.8 | 12.34 | 12.75 | 12.15 | 11.55 |
| 160 | 8 | 7 | 27 | 71.4 | ON | 281 | 76.6 | 112.0 | 11.99 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 260 | 73.5 | 130.8 | 11.87 | 12.75 | 12.15 | 11.55 |
| 161 | 4 | 3 | 22 | 58.2 | ON | 362 | 55.7 | 22.2 | 12.35 | 12.75 | 12.15 | 11.55 |

| | | | | | | | | | | | |
|-----|---|---|-----|----------|-----|-------|-------|-------|-------|-------|-------|
| | | | | OFF | 361 | 59.2 | 24.6 | 12.35 | 12.75 | 12.15 | 11.55 |
| 162 | 2 | 3 | 33 | 87.3 ON | 321 | 73.8 | 49.4 | 12.18 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 382 | 77.8 | 78.6 | 12.89 | 12.75 | 12.15 | 11.55 |
| 166 | 7 | 3 | 24 | 63.5 ON | 279 | 78.1 | 95.6 | 11.98 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 259 | 76.4 | 119.2 | 11.87 | 12.75 | 12.15 | 11.55 |
| 167 | 7 | 1 | 18 | 47.6 ON | 335 | 68.5 | 33.6 | 12.24 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 326 | 71.2 | 39.8 | 12.28 | 12.75 | 12.15 | 11.55 |
| 172 | 5 | 6 | 68 | 158.7 ON | 348 | 61.4 | 23.9 | 12.38 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 326 | 78.8 | 36.1 | 12.28 | 12.75 | 12.15 | 11.55 |
| 173 | 4 | 3 | 61 | 161.3 ON | 361 | 49.7 | 17.2 | 12.35 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 353 | 59.3 | 22.1 | 12.32 | 12.75 | 12.15 | 11.55 |
| 173 | 4 | 6 | 92 | 243.3 ON | 315 | 74.6 | 46.6 | 12.15 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 252 | 76.3 | 125.6 | 11.83 | 12.75 | 12.15 | 11.55 |
| 174 | 4 | 1 | 47 | 124.3 ON | 345 | 27.6 | 18.4 | 12.28 | 12.59 | 11.99 | 11.39 |
| | | | | OFF | 356 | 35.4 | 13.8 | 12.33 | 12.68 | 12.88 | 11.48 |
| 174 | 4 | 4 | 38 | 188.5 ON | 358 | 54.1 | 18.9 | 12.33 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 358 | 68.1 | 22.4 | 12.38 | 12.75 | 12.15 | 11.55 |
| 175 | 5 | 3 | 48 | 185.8 ON | 363 | 48.8 | 16.5 | 12.36 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 358 | 55.2 | 19.2 | 12.34 | 12.75 | 12.15 | 11.55 |
| 175 | 5 | 5 | 48 | 127.8 ON | 346 | 63.5 | 25.8 | 12.29 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 327 | 78.9 | 35.2 | 12.28 | 12.75 | 12.15 | 11.55 |
| 176 | 6 | 3 | 38 | 188.5 ON | 339 | 74.1 | 43.8 | 12.26 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 323 | 78.1 | 65.5 | 12.19 | 12.75 | 12.15 | 11.55 |
| 187 | 4 | 4 | 19 | 58.3 ON | 368 | 56.8 | 17.7 | 12.34 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 356 | 59.9 | 19.5 | 12.33 | 12.75 | 12.15 | 11.55 |
| 187 | 4 | 5 | 31 | 82.8 ON | 351 | 63.2 | 21.8 | 12.31 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 342 | 68.1 | 26.7 | 12.27 | 12.75 | 12.15 | 11.55 |
| 188 | 5 | 5 | 165 | 436.4 ON | 344 | 61.2 | 28.1 | 12.28 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 246 | 79.3 | 116.7 | 11.79 | 12.75 | 12.15 | 11.55 |
| 189 | 5 | 1 | 6 | 15.9 ON | 152 | -46.8 | 13.6 | 11.18 | 8.8 | 8.8 | 8.8 |
| | | | | OFF | 157 | -44.1 | 13.2 | 11.15 | 8.8 | 8.8 | 8.8 |
| 189 | 6 | 6 | 33 | 87.3 ON | 345 | 55.9 | 17.8 | 12.28 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 332 | 61.6 | 28.1 | 12.23 | 12.75 | 12.15 | 11.55 |
| 198 | 5 | 5 | 77 | 283.7 ON | 359 | 51.6 | 15.1 | 12.34 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 339 | 64.1 | 21.8 | 12.26 | 12.75 | 12.15 | 11.55 |
| 191 | 3 | 2 | 41 | 188.4 ON | 358 | 58.6 | 14.6 | 12.33 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 347 | 57.4 | 17.3 | 12.29 | 12.75 | 12.15 | 11.55 |
| 223 | 5 | 2 | 36 | 95.2 ON | 356 | 54.9 | 13.9 | 12.33 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 347 | 68.9 | 16.6 | 12.29 | 12.75 | 12.15 | 11.55 |
| 223 | 5 | 6 | 25 | 66.1 ON | 318 | 75.8 | 32.5 | 12.13 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 294 | 78.9 | 46.8 | 12.85 | 12.75 | 12.15 | 11.55 |
| 224 | 3 | 6 | 33 | 87.3 ON | 325 | 65.7 | 19.4 | 12.28 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 387 | 71.6 | 25.7 | 12.11 | 12.75 | 12.15 | 11.55 |
| 225 | 5 | 5 | 86 | 227.5 ON | 353 | 51.9 | 12.6 | 12.32 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 322 | 66.5 | 19.8 | 12.18 | 12.75 | 12.15 | 11.55 |
| 226 | 5 | 3 | 147 | 388.8 ON | 368 | 45.4 | 18.8 | 12.34 | 12.74 | 12.14 | 11.54 |
| | | | | OFF | 389 | 78.2 | 23.2 | 12.12 | 12.75 | 12.15 | 11.55 |
| 213 | 2 | 8 | 9 | 23.8 ON | 282 | 76.5 | 31.3 | 11.99 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 278 | 77.6 | 34.2 | 11.97 | 12.75 | 12.15 | 11.55 |

STELLAR-INDEX SUMMARY

| | | | | | | |
|-------------|-------|------|--------|------|-------------|------|
| CAMERA DATA | ET | FILM | FILTER | GRID | ASSEMBLY NO | D102 |
| STELLAR | 1.0 | 4401 | NONE | 127 | | |
| INDEX | 1/500 | 4400 | W/21 | 127 | | |

PERFORMANCE SUMMARY

| OPN NO | FR | STEL FEET | INDX FEET | H | M | S | Q | LAT | ON LONG | Q | OFF LAT | OFF LONG | SEC DUR |
|--------|-----|-----------|-----------|----|----|----|---|-----|---------|---|---------|----------|---------|
| 84 | 5 8 | 0.10 | 0.20 | 10 | 5 | 38 | 2 | 10 | 50E | 2 | 9 | 50E | 27 |
| 96 | 5 3 | 1.68 | 3.37 | 4 | 42 | 24 | 2 | 70 | 116E | 2 | 51 | 123E | 297 |
| 96 | 5 6 | 0.89 | 1.78 | 4 | 47 | 57 | 2 | 47 | 123E | 2 | 39 | 124E | 140 |
| 97 | 8 5 | 0.59 | 1.19 | 6 | 23 | 18 | 2 | 43 | 100E | 2 | 38 | 101E | 91 |
| 97 | 8 7 | 0.79 | 1.58 | 6 | 27 | 36 | 2 | 25 | 101E | 2 | 16 | 102E | 142 |
| 98 | 5 7 | 1.58 | 3.17 | 7 | 55 | 39 | 2 | 51 | 75E | 2 | 34 | 77E | 263 |
| 99 | 2 0 | 0.20 | 0.40 | 9 | 7 | 54 | 1 | 40 | 111W | 1 | 43 | 111W | 61 |
| 99 | 2 4 | 0.40 | 0.79 | 9 | 28 | 46 | 2 | 56 | 51E | 2 | 52 | 52E | 73 |
| 100 | 5 2 | 0.59 | 1.19 | 11 | 3 | 20 | 2 | 54 | 27E | 2 | 48 | 28E | 105 |
| 105 | 9 4 | 0.40 | 0.79 | 19 | 4 | 4 | 2 | 15 | 87W | 2 | 12 | 87W | 68 |
| 106 | 9 2 | 0.30 | 0.59 | 20 | 33 | 39 | 2 | 35 | 111W | 2 | 32 | 111W | 61 |
| 111 | 4 4 | 0.30 | 0.59 | 4 | 20 | 39 | 2 | 53 | 127E | 2 | 50 | 128E | 53 |
| 112 | 3 3 | 0.89 | 1.78 | 5 | 53 | 48 | 2 | 57 | 103E | 2 | 47 | 104E | 154 |
| 112 | 3 8 | 0.79 | 1.58 | 6 | 2 | 3 | 2 | 23 | 106E | 2 | 14 | 107E | 147 |
| 113 | 3 1 | 0.20 | 0.40 | 7 | 4 | 4 | 1 | 27 | 84W | 1 | 29 | 84W | 45 |
| 113 | 8 6 | 1.29 | 2.57 | 7 | 29 | 15 | 2 | 52 | 80E | 2 | 38 | 82E | 215 |
| 114 | 6 4 | 0.40 | 0.79 | 9 | 1 | 33 | 2 | 60 | 54E | 2 | 56 | 56E | 77 |
| 115 | 5 4 | 0.30 | 0.59 | 10 | 36 | 19 | 2 | 58 | 31E | 2 | 55 | 32E | 55 |
| 115 | 5 7 | 0.40 | 0.79 | 10 | 42 | 22 | 2 | 33 | 35E | 2 | 30 | 35E | 62 |
| 126 | 4 3 | 0.49 | 0.99 | 3 | 51 | 27 | 2 | 64 | 129E | 2 | 59 | 131E | 94 |
| 127 | 4 5 | 0.40 | 0.79 | 5 | 29 | 3 | 2 | 50 | 109E | 2 | 47 | 109E | 66 |
| 128 | 5 5 | 1.48 | 2.97 | 7 | 2 | 5 | 2 | 55 | 84E | 2 | 40 | 87E | 241 |
| 129 | 3 5 | 1.39 | 2.77 | 8 | 35 | 55 | 2 | 57 | 68E | 2 | 42 | 63E | 228 |
| 130 | 5 1 | 0.40 | 0.79 | 10 | 6 | 53 | 2 | 70 | 31E | 2 | 66 | 33E | 68 |
| 136 | 5 4 | 1.88 | 3.76 | 10 | 9 | 26 | 2 | 60 | 36E | 2 | 40 | 39E | 303 |
| 138 | 5 7 | 0.40 | 0.79 | 10 | 17 | 8 | 2 | 28 | 40E | 2 | 24 | 40E | 74 |
| 131 | 3 1 | 0.30 | 0.59 | 11 | 44 | 58 | 2 | 54 | 14E | 2 | 52 | 14E | 50 |
| 141 | 3 1 | 0.40 | 0.79 | 3 | 22 | 9 | 2 | 75 | 126E | 2 | 71 | 130E | 76 |
| 141 | 3 4 | 0.30 | 0.59 | 3 | 27 | 42 | 2 | 52 | 137E | 2 | 50 | 138E | 50 |
| 142 | 6 3 | 0.79 | 1.58 | 5 | 1 | 2 | 2 | 56 | 113E | 2 | 48 | 114E | 126 |
| 143 | 3 2 | 0.49 | 0.99 | 6 | 32 | 45 | 2 | 66 | 86E | 2 | 61 | 88E | 85 |
| 144 | 5 6 | 1.39 | 2.77 | 8 | 10 | 40 | 2 | 51 | 67E | 2 | 36 | 68E | 230 |
| 145 | 7 0 | 0.30 | 0.59 | 9 | 22 | 35 | 1 | 38 | 120W | 1 | 41 | 120W | 60 |
| 145 | 7 2 | 1.88 | 3.76 | 9 | 41 | 2 | 2 | 66 | 38E | 2 | 46 | 44E | 314 |
| 157 | 7 3 | 0.20 | 0.40 | 4 | 31 | 52 | 2 | 64 | 115E | 2 | 63 | 116E | 40 |
| 157 | 7 4 | 0.89 | 1.78 | 4 | 32 | 56 | 2 | 60 | 117E | 2 | 50 | 119E | 155 |
| 159 | 3 3 | 1.48 | 2.97 | 7 | 39 | 17 | 2 | 68 | 66E | 2 | 53 | 71E | 237 |
| 159 | 3 7 | 0.30 | 0.59 | 7 | 44 | 26 | 2 | 47 | 72E | 2 | 44 | 73E | 55 |
| 160 | 8 2 | 0.79 | 1.58 | 9 | 15 | 47 | 2 | 59 | 46E | 2 | 51 | 48E | 132 |
| 160 | 8 7 | 0.40 | 0.79 | 9 | 26 | 15 | 2 | 16 | 51E | 2 | 10 | 51E | 100 |
| 161 | 4 3 | 0.40 | 0.79 | 10 | 51 | 22 | 2 | 53 | 24E | 2 | 49 | 25E | 68 |
| 162 | 2 3 | 0.59 | 1.19 | 12 | 30 | 45 | 2 | 32 | 3E | 2 | 25 | 3E | 106 |
| 166 | 7 3 | 0.40 | 0.79 | 18 | 50 | 23 | 2 | 20 | 90W | 2 | 14 | 90W | 95 |
| 167 | 7 1 | 0.30 | 0.59 | 20 | 19 | 50 | 2 | 39 | 115W | 2 | 36 | 115W | 62 |

| | | | | | | | | | | | | | | | |
|-----|---|---|----|------|------|----|----|----|---|----|------|---|----|------|-----|
| 172 | 5 | 6 | 10 | 0.99 | 1.98 | 4 | 8 | 42 | 2 | 47 | 125E | 2 | 37 | 126E | 168 |
| 173 | 4 | 3 | 10 | 0.99 | 1.98 | 5 | 39 | 52 | 2 | 60 | 99E | 2 | 50 | 101E | 159 |
| 173 | 4 | 6 | 14 | 1.39 | 2.77 | 5 | 46 | 41 | 2 | 31 | 103E | 2 | 13 | 103E | 289 |
| 174 | 4 | 1 | 7 | 0.69 | 1.39 | 7 | 8 | 34 | 2 | 81 | 49E | 2 | 74 | 66E | 128 |
| 174 | 4 | 4 | 6 | 0.59 | 1.19 | 7 | 15 | 8 | 2 | 55 | 76E | 2 | 49 | 77E | 106 |
| 175 | 5 | 3 | 6 | 0.59 | 1.19 | 8 | 47 | 57 | 2 | 61 | 51E | 2 | 54 | 53E | 109 |
| 175 | 5 | 5 | 8 | 0.79 | 1.58 | 8 | 51 | 43 | 2 | 45 | 54E | 2 | 37 | 55E | 136 |
| 176 | 6 | 3 | 6 | 0.59 | 1.19 | 10 | 28 | 54 | 2 | 33 | 32E | 2 | 26 | 32E | 113 |
| 187 | 4 | 4 | 3 | 0.30 | 0.59 | 3 | 39 | 44 | 2 | 53 | 129E | 2 | 49 | 130E | 60 |
| 187 | 4 | 5 | 5 | 0.49 | 0.99 | 3 | 41 | 23 | 2 | 46 | 130E | 2 | 40 | 131E | 91 |
| 188 | 5 | 5 | 25 | 2.47 | 4.95 | 5 | 15 | 0 | 2 | 48 | 106E | 2 | 16 | 109E | 484 |
| 189 | 5 | 1 | 1 | 0.10 | 0.20 | 6 | 22 | 20 | 1 | 22 | 82W | 1 | 24 | 82W | 44 |
| 189 | 6 | 6 | 5 | 0.49 | 0.99 | 6 | 47 | 48 | 2 | 54 | 82E | 2 | 48 | 83E | 99 |
| 190 | 5 | 5 | 12 | 1.19 | 2.38 | 8 | 20 | 52 | 2 | 58 | 57E | 2 | 45 | 59E | 202 |
| 191 | 3 | 2 | 7 | 0.69 | 1.39 | 9 | 54 | 45 | 2 | 59 | 33E | 2 | 52 | 35E | 115 |
| 203 | 5 | 2 | 6 | 0.59 | 1.19 | 4 | 45 | 21 | 2 | 55 | 111E | 2 | 49 | 112E | 103 |
| 203 | 5 | 6 | 4 | 0.40 | 0.79 | 4 | 50 | 34 | 2 | 33 | 113E | 2 | 28 | 113E | 86 |
| 204 | 3 | 6 | 6 | 0.59 | 1.19 | 6 | 22 | 11 | 2 | 44 | 89E | 2 | 37 | 89E | 105 |
| 205 | 5 | 5 | 13 | 1.29 | 2.57 | 7 | 52 | 50 | 2 | 58 | 63E | 2 | 43 | 65E | 233 |
| 206 | 5 | 3 | 22 | 2.18 | 4.36 | 9 | 25 | 21 | 2 | 65 | 37E | 2 | 39 | 42E | 386 |
| 213 | 2 | 0 | 2 | 0.20 | 0.40 | 20 | 32 | 2 | 2 | 32 | 122W | 2 | 31 | 122W | 32 |

NOTE - OPERATION 84-5-8 CONSISTED OF FIVE MORE FRAMES ON THE FWD PAN CAMERA AND THREE MORE FRAMES ON THE AFT PAN CAMERA THAN REPORTED HERE. THESE FRAMES WERE INCLUDED IN THE A MISSION RECOVERY BUCKET.

NOTE - OPERATION 91-0-0 WAS THE CUT AND WRAP OPERATION OCCURRING AT THE A TO B TRANSFER.

NOTE - OPERATION 93-0-0 WAS THE LENS STOWING OPERATION OCCURRING AT THE TIME OF THE A MISSION RECOVERY.

NOTE - TLM DATA OBSERVED ON OPERATION 213-2-0 INDICATE THAT THE MASTE PAN CAMERA WAS OUT OF FILM PRIOR TO THE OPERATION, AND THE SLA PAN CAMERA RAN OUT OF FILM AFTER 3 CYCLES OF THIS OPERATION.

NOTE - TLM DATA INDICATE NORMAL CAMERA SYSTEM PERFORMANCE FOR THE ENTIRE B MISSION.

A. 1041-2
 B. DRY
 C. PERFORMANCE ESTIMATE - PART TWO

RATE ESTIMATE
 FWD PAN CAMERA NUMBER 208

| OPN NO | FR | R | A | TUR/ | INST | INST | SCAN RATE | PCT RATE | | | | |
|--------|----|---|-----|------|------|---------|-----------|----------|-------|-------|------|--------|
| | | | | DUR | CPS | ANG-VEL | R/SEC | I/SEC | | | | |
| | | | | | | | | CALIB | | | | |
| | | | | | | | | REOD | | | | |
| 84 | 5 | 8 | 5 | 11 | 1 ON | 2332 | 0.3829 | 0.03231 | 2.406 | 57.74 | -1.3 | 0.9 |
| | | | | | OFF | 14 | 0.3798 | 0.03204 | 2.386 | 57.27 | -1.3 | 1.2 |
| 91 | 0 | 0 | 4 | 11 | 1 ON | 0 | 0.1717 | 0.01449 | 1.079 | 25.89 | -1.3 | -160.4 |
| | | | | | OFF | 23 | 0.1717 | 0.01449 | 1.079 | 25.89 | -1.3 | -158.9 |
| 93 | 0 | 0 | 3 | 11 | 1 ON | 0 | 0.1288 | 0.01087 | 0.809 | 19.42 | -1.3 | -209.7 |
| | | | | | OFF | 23 | 0.1288 | 0.01087 | 0.809 | 19.42 | -1.3 | -214.1 |
| 96 | 5 | 3 | 111 | 11 | 1 ON | 1388 | 0.3545 | 0.02992 | 2.228 | 53.46 | -1.3 | -5.5 |
| | | | | | OFF | 284 | 0.4126 | 0.03482 | 2.593 | 62.22 | -1.3 | -7.0 |
| 96 | 5 | 6 | 54 | 11 | 1 ON | 1721 | 0.4187 | 0.03533 | 2.631 | 63.14 | -1.3 | -6.9 |
| | | | | | OFF | 127 | 0.4287 | 0.03617 | 2.693 | 64.64 | -1.3 | -5.5 |
| 97 | 8 | 5 | 33 | 11 | 1 ON | 1886 | 0.4298 | 0.03627 | 2.701 | 64.82 | -1.3 | -5.2 |
| | | | | | OFF | 78 | 0.4295 | 0.03624 | 2.699 | 64.77 | -1.3 | -5.1 |
| 97 | 8 | 7 | 52 | 11 | 1 ON | 2145 | 0.4155 | 0.03506 | 2.611 | 62.65 | -1.3 | -2.6 |
| | | | | | OFF | 129 | 0.3947 | 0.03331 | 2.480 | 59.52 | -1.3 | 0.4 |
| 98 | 5 | 7 | 107 | 11 | 1 ON | 1777 | 0.4242 | 0.03580 | 2.666 | 63.97 | -1.3 | -4.2 |
| | | | | | OFF | 250 | 0.4268 | 0.03601 | 2.681 | 64.35 | -1.3 | -4.6 |
| 99 | 2 | 0 | 13 | 4 | 1 ON | 458 | 0.2570 | 0.02169 | 1.615 | 38.76 | -1.3 | 40.5 |
| | | | | | OFF | 48 | 0.2640 | 0.02228 | 1.659 | 39.82 | -1.3 | 40.0 |
| 99 | 2 | 4 | 24 | 11 | 1 ON | 1710 | 0.4175 | 0.03522 | 2.623 | 62.95 | -1.3 | -3.2 |
| | | | | | OFF | 60 | 0.4236 | 0.03575 | 2.662 | 63.88 | -1.3 | -4.1 |
| 100 | 5 | 2 | 38 | 11 | 1 ON | 1696 | 0.4158 | 0.03509 | 2.613 | 62.70 | -1.3 | -4.5 |
| | | | | | OFF | 92 | 0.4252 | 0.03587 | 2.671 | 64.11 | -1.3 | -5.2 |
| 105 | 9 | 4 | 20 | 11 | 1 ON | 2314 | 0.3869 | 0.03264 | 2.431 | 58.34 | -1.3 | 1.5 |
| | | | | | OFF | 55 | 0.3747 | 0.03162 | 2.354 | 56.50 | -1.3 | 2.8 |
| 106 | 9 | 2 | 19 | 11 | 1 ON | 2036 | 0.4262 | 0.03596 | 2.678 | 64.27 | -1.3 | -4.2 |
| | | | | | OFF | 48 | 0.4223 | 0.03563 | 2.653 | 63.68 | -1.3 | -3.6 |
| 111 | 4 | 4 | 16 | 11 | 1 ON | 1796 | 0.4257 | 0.03592 | 2.675 | 64.20 | -1.3 | -4.1 |
| | | | | | OFF | 40 | 0.4282 | 0.03613 | 2.690 | 64.56 | -1.3 | -4.4 |
| 112 | 3 | 3 | 60 | 11 | 1 ON | 1751 | 0.4218 | 0.03559 | 2.651 | 63.61 | -1.3 | -2.8 |
| | | | | | OFF | 141 | 0.4298 | 0.03627 | 2.701 | 64.82 | -1.3 | -4.6 |
| 112 | 3 | 8 | 51 | 11 | 1 ON | 2247 | 0.3998 | 0.03373 | 2.512 | 60.28 | -1.3 | -1.3 |
| | | | | | OFF | 134 | 0.3717 | 0.03137 | 2.336 | 56.05 | -1.3 | 1.6 |
| 113 | 3 | 1 | 8 | 4 | 1 ON | 299 | 0.2383 | 0.02011 | 1.497 | 35.94 | -1.3 | 42.4 |
| | | | | | OFF | 32 | 0.2416 | 0.02038 | 1.518 | 36.43 | -1.3 | 42.0 |
| 113 | 8 | 6 | 87 | 11 | 1 ON | 1811 | 0.4266 | 0.03600 | 2.680 | 64.33 | -1.3 | -4.2 |
| | | | | | OFF | 202 | 0.4275 | 0.03607 | 2.686 | 64.46 | -1.3 | -4.3 |
| 114 | 6 | 4 | 26 | 11 | 1 ON | 1696 | 0.4157 | 0.03507 | 2.612 | 62.68 | -1.3 | -2.6 |
| | | | | | OFF | 64 | 0.4227 | 0.03567 | 2.656 | 63.75 | -1.3 | -3.5 |
| 115 | 5 | 4 | 17 | 11 | 1 ON | 1702 | 0.4164 | 0.03513 | 2.616 | 62.79 | -1.3 | -3.9 |
| | | | | | OFF | 42 | 0.4212 | 0.03554 | 2.647 | 63.52 | -1.3 | -4.3 |
| 115 | 5 | 7 | 20 | 11 | 1 ON | 2064 | 0.4240 | 0.03577 | 2.664 | 63.93 | -1.3 | -2.6 |
| | | | | | OFF | 49 | 0.4192 | 0.03537 | 2.634 | 63.22 | -1.3 | -1.6 |

| | | | | | | | | | | | | | |
|-----|---|---|-----|----|---|-----|------|--------|---------|-------|-------|------|------|
| 126 | 4 | 3 | 32 | 11 | 1 | ON | 1574 | 0.3965 | 0.03346 | 2.491 | 59.79 | -1.3 | -6.5 |
| | | | | | | OFF | 81 | 0.4102 | 0.03461 | 2.578 | 61.66 | -1.3 | -6.5 |
| 127 | 4 | 5 | 22 | 11 | 1 | ON | 1891 | 0.4298 | 0.03627 | 2.701 | 64.81 | -1.3 | -4.3 |
| | | | | | | OFF | 53 | 0.4299 | 0.03627 | 2.701 | 64.82 | -1.3 | -4.4 |
| 128 | 5 | 5 | 98 | 11 | 1 | ON | 1823 | 0.4273 | 0.03606 | 2.685 | 64.44 | -1.3 | -3.8 |
| | | | | | | OFF | 228 | 0.4250 | 0.03586 | 2.670 | 64.09 | -1.3 | -3.8 |
| 129 | 3 | 5 | 92 | 11 | 1 | ON | 1820 | 0.4272 | 0.03604 | 2.684 | 64.41 | -1.3 | -3.3 |
| | | | | | | OFF | 215 | 0.4262 | 0.03596 | 2.678 | 64.27 | -1.3 | -4.3 |
| 130 | 5 | 1 | 22 | 11 | 1 | ON | 1609 | 0.4005 | 0.03380 | 2.517 | 60.40 | -1.8 | -1.0 |
| | | | | | | OFF | 55 | 0.4092 | 0.03453 | 2.571 | 61.71 | -1.8 | -2.0 |
| 130 | 5 | 4 | 124 | 11 | 1 | ON | 1762 | 0.4206 | 0.03549 | 2.643 | 63.42 | -1.8 | -3.6 |
| | | | | | | OFF | 290 | 0.4226 | 0.03565 | 2.655 | 63.72 | -1.8 | -4.2 |
| 130 | 5 | 7 | 24 | 11 | 1 | ON | 2224 | 0.4014 | 0.03387 | 2.522 | 60.54 | -1.8 | -1.3 |
| | | | | | | OFF | 61 | 0.3902 | 0.03292 | 2.452 | 58.84 | -1.8 | 0.0 |
| 131 | 3 | 1 | 15 | 11 | 1 | ON | 1842 | 0.4260 | 0.03594 | 2.676 | 64.23 | -1.8 | -4.5 |
| | | | | | | OFF | 37 | 0.4272 | 0.03605 | 2.684 | 64.42 | -1.8 | -4.7 |
| 141 | 3 | 1 | 25 | 11 | 1 | ON | 1638 | 0.4051 | 0.03419 | 2.546 | 61.09 | -1.8 | 2.0 |
| | | | | | | OFF | 63 | 0.4140 | 0.03493 | 2.601 | 62.43 | -1.8 | 0.5 |
| 141 | 3 | 4 | 15 | 11 | 1 | ON | 1971 | 0.4269 | 0.03602 | 2.682 | 64.38 | -1.8 | -4.8 |
| | | | | | | OFF | 37 | 0.4254 | 0.03589 | 2.673 | 64.14 | -1.8 | -5.1 |
| 142 | 6 | 3 | 48 | 11 | 1 | ON | 1921 | 0.4277 | 0.03609 | 2.687 | 64.49 | -1.8 | -4.2 |
| | | | | | | OFF | 113 | 0.4239 | 0.03576 | 2.663 | 63.92 | -1.8 | -5.2 |
| 143 | 3 | 2 | 30 | 11 | 1 | ON | 1709 | 0.4150 | 0.03502 | 2.608 | 62.58 | -1.8 | -3.0 |
| | | | | | | OFF | 72 | 0.4222 | 0.03563 | 2.653 | 63.67 | -1.8 | -3.9 |
| 144 | 5 | 6 | 90 | 11 | 1 | ON | 2002 | 0.4257 | 0.03592 | 2.675 | 64.19 | -1.8 | -5.0 |
| | | | | | | OFF | 217 | 0.4022 | 0.03394 | 2.527 | 60.66 | -1.8 | -4.6 |
| 145 | 7 | 0 | 14 | 4 | 1 | ON | 695 | 0.2945 | 0.02485 | 1.850 | 44.41 | -1.8 | 41.1 |
| | | | | | | OFF | 47 | 0.3036 | 0.02562 | 1.908 | 45.78 | -1.8 | 40.7 |
| 145 | 7 | 2 | 129 | 11 | 1 | ON | 1802 | 0.4237 | 0.03575 | 2.662 | 63.89 | -1.8 | -0.8 |
| | | | | | | OFF | 301 | 0.4179 | 0.03526 | 2.626 | 63.02 | -1.8 | -5.9 |
| 157 | 7 | 3 | 11 | 11 | 1 | ON | 1735 | 0.4179 | 0.03526 | 2.626 | 63.02 | -1.8 | -4.6 |
| | | | | | | OFF | 27 | 0.4206 | 0.03549 | 2.643 | 63.42 | -1.8 | -4.7 |
| 157 | 7 | 4 | 59 | 11 | 1 | ON | 1799 | 0.4235 | 0.03573 | 2.661 | 63.86 | -1.8 | -4.7 |
| | | | | | | OFF | 142 | 0.4275 | 0.03607 | 2.686 | 64.47 | -1.8 | -3.7 |
| 159 | 3 | 3 | 96 | 11 | 1 | ON | 1803 | 0.4239 | 0.03577 | 2.664 | 63.93 | -1.8 | -1.4 |
| | | | | | | OFF | 224 | 0.4245 | 0.03582 | 2.667 | 64.01 | -1.8 | -4.8 |
| 159 | 3 | 7 | 17 | 11 | 1 | ON | 2112 | 0.4173 | 0.03521 | 2.622 | 62.92 | -1.8 | -5.0 |
| | | | | | | OFF | 42 | 0.4121 | 0.03478 | 2.590 | 62.15 | -1.8 | -4.9 |
| 160 | 8 | 2 | 50 | 11 | 1 | ON | 1900 | 0.4270 | 0.03609 | 2.688 | 64.51 | -1.8 | -3.9 |
| | | | | | | OFF | 119 | 0.4250 | 0.03586 | 2.670 | 64.08 | -1.8 | -4.1 |
| 160 | 8 | 7 | 27 | 11 | 1 | ON | 2529 | 0.3317 | 0.02799 | 2.084 | 50.02 | -1.8 | 2.7 |
| | | | | | | OFF | 87 | 0.3067 | 0.02588 | 1.927 | 46.24 | -1.8 | 3.1 |
| 161 | 4 | 3 | 23 | 11 | 1 | ON | 1905 | 0.4270 | 0.03610 | 2.688 | 64.51 | -1.8 | -3.8 |
| | | | | | | OFF | 55 | 0.4274 | 0.03606 | 2.685 | 64.45 | -1.8 | -3.0 |
| 162 | 2 | 3 | 34 | 11 | 1 | ON | 2340 | 0.3793 | 0.03200 | 2.383 | 57.19 | -1.8 | -2.7 |
| | | | | | | OFF | 93 | 0.3573 | 0.03015 | 2.245 | 53.88 | -1.8 | -1.6 |
| 166 | 7 | 3 | 25 | 11 | 1 | ON | 2537 | 0.3296 | 0.02781 | 2.071 | 49.70 | -1.8 | -1.3 |
| | | | | | | OFF | 82 | 0.3058 | 0.02580 | 1.921 | 46.11 | -1.8 | -1.1 |
| 167 | 7 | 1 | 19 | 11 | 1 | ON | 2258 | 0.3957 | 0.03339 | 2.486 | 59.67 | -1.8 | -4.0 |
| | | | | | | OFF | 49 | 0.3861 | 0.03258 | 2.426 | 58.22 | -1.8 | -3.6 |
| 172 | 5 | 6 | 62 | 11 | 1 | ON | 2155 | 0.4120 | 0.03476 | 2.509 | 62.13 | -1.8 | -4.5 |

| | | | | | | | | | | | | |
|-----|---|---|-----|----|------|------|--------|---------|-------|-------|------|------|
| | | | | | OFF | 155 | 0.3855 | 0.03252 | 2.422 | 58.13 | -1.8 | -3.4 |
| 173 | 4 | 3 | 62 | 11 | 1 ON | 1961 | 0.4274 | 0.03606 | 2.685 | 64.45 | -1.8 | -3.9 |
| | | | | | OFF | 146 | 0.4177 | 0.03524 | 2.624 | 62.99 | -1.8 | -4.2 |
| 173 | 4 | 6 | 93 | 11 | 1 ON | 2370 | 0.3725 | 0.03143 | 2.340 | 56.16 | -1.8 | -1.4 |
| | | | | | OFF | 276 | 0.2976 | 0.02511 | 1.870 | 44.87 | -1.8 | 0.5 |
| 174 | 4 | 1 | 47 | 11 | 1 ON | 1654 | 0.4078 | 0.03441 | 2.562 | 61.49 | -1.8 | 2.1 |
| | | | | | OFF | 115 | 0.4214 | 0.03555 | 2.648 | 63.54 | -1.8 | -0.6 |
| 174 | 4 | 4 | 38 | 11 | 1 ON | 2047 | 0.4232 | 0.03571 | 2.659 | 63.81 | -1.8 | -4.5 |
| | | | | | OFF | 93 | 0.4139 | 0.03492 | 2.600 | 62.41 | -1.8 | -4.6 |
| 175 | 5 | 3 | 40 | 11 | 1 ON | 1965 | 0.4279 | 0.03611 | 2.689 | 64.53 | -1.6 | -3.8 |
| | | | | | OFF | 96 | 0.4227 | 0.03566 | 2.656 | 63.74 | -1.6 | -4.3 |
| 175 | 5 | 5 | 48 | 11 | 1 ON | 2191 | 0.4075 | 0.03439 | 2.561 | 61.45 | -1.6 | -3.9 |
| | | | | | OFF | 123 | 0.3852 | 0.03251 | 2.421 | 58.09 | -1.6 | -2.8 |
| 176 | 6 | 3 | 39 | 11 | 1 ON | 2238 | 0.3999 | 0.03375 | 2.513 | 60.31 | -1.6 | 5.2 |
| | | | | | OFF | 100 | 0.3802 | 0.03208 | 2.389 | 57.33 | -1.6 | 7.9 |
| 187 | 4 | 4 | 19 | 11 | 1 ON | 2044 | 0.4241 | 0.03578 | 2.664 | 63.95 | -1.6 | -2.1 |
| | | | | | OFF | 47 | 0.4200 | 0.03544 | 2.639 | 63.33 | -1.6 | -1.3 |
| 187 | 4 | 5 | 32 | 11 | 1 ON | 2143 | 0.4143 | 0.03496 | 2.603 | 62.47 | -1.6 | -0.4 |
| | | | | | OFF | 78 | 0.4027 | 0.03398 | 2.530 | 60.73 | -1.6 | 1.1 |
| 188 | 5 | 5 | 167 | 11 | 1 ON | 2205 | 0.4054 | 0.03421 | 2.547 | 61.14 | -1.6 | -3.9 |
| | | | | | OFF | 471 | 0.2892 | 0.02440 | 1.817 | 43.61 | -1.6 | -1.7 |
| 189 | 5 | 1 | 6 | 11 | 1 ON | 670 | 0.1771 | 0.01495 | 1.113 | 26.71 | -1.6 | 6.9 |
| | | | | | OFF | 31 | 0.1831 | 0.01545 | 1.150 | 27.61 | -1.6 | 7.8 |
| 189 | 6 | 6 | 33 | 11 | 1 ON | 2197 | 0.4066 | 0.03431 | 2.555 | 61.31 | -1.6 | -6.6 |
| | | | | | OFF | 86 | 0.3914 | 0.03303 | 2.459 | 59.03 | -1.6 | -7.2 |
| 190 | 5 | 5 | 78 | 11 | 1 ON | 2049 | 0.4237 | 0.03575 | 2.662 | 63.90 | -1.6 | -3.7 |
| | | | | | OFF | 189 | 0.3999 | 0.03374 | 2.512 | 60.30 | -1.6 | -2.7 |
| 191 | 3 | 2 | 42 | 11 | 1 ON | 2074 | 0.4217 | 0.03558 | 2.649 | 63.59 | -1.6 | -4.4 |
| | | | | | OFF | 102 | 0.4098 | 0.03458 | 2.575 | 61.79 | -1.6 | -4.7 |
| 203 | 5 | 2 | 36 | 11 | 1 ON | 2089 | 0.4203 | 0.03546 | 2.641 | 63.37 | -1.6 | -1.8 |
| | | | | | OFF | 90 | 0.4093 | 0.03454 | 2.572 | 61.72 | -1.6 | -0.6 |
| 203 | 5 | 6 | 25 | 11 | 1 ON | 2402 | 0.3655 | 0.03084 | 2.297 | 55.12 | -1.6 | 3.2 |
| | | | | | OFF | 73 | 0.3469 | 0.02927 | 2.180 | 52.31 | -1.6 | 4.1 |
| 204 | 3 | 6 | 34 | 11 | 1 ON | 2325 | 0.3830 | 0.03232 | 2.407 | 57.76 | -1.6 | -2.8 |
| | | | | | OFF | 92 | 0.3616 | 0.03051 | 2.272 | 54.53 | -1.6 | -2.1 |
| 205 | 5 | 5 | 88 | 11 | 1 ON | 2121 | 0.4169 | 0.03517 | 2.619 | 62.86 | -1.6 | -3.9 |
| | | | | | OFF | 220 | 0.3794 | 0.03202 | 2.384 | 57.22 | -1.6 | -2.8 |
| 206 | 5 | 3 | 150 | 11 | 1 ON | 2034 | 0.4248 | 0.03584 | 2.669 | 64.06 | -1.6 | -3.6 |
| | | | | | OFF | 373 | 0.3643 | 0.03074 | 2.289 | 54.93 | -1.6 | -2.6 |
| 213 | 2 | 0 | 9 | 11 | 1 ON | 2528 | 0.3326 | 0.02807 | 2.090 | 50.16 | -1.6 | -1.5 |
| | | | | | OFF | 19 | 0.3272 | 0.02761 | 2.056 | 49.34 | -1.6 | -1.6 |

RATE ESTIMATE

AFT FAN CAMERA NUMBER 209

| OPN NO | FR | R | A | TUR/ | DUR | INST | INST | SCAN | RATE | PCT | RATE |
|--------|----|---|---|------|------|------|---------|---------|-------|-------|------------|
| | | | | | | CPS | ANG-VEL | R/SEC | I/SEC | CALIB | REQD |
| 84 | 5 | 8 | 6 | 11 | 1 ON | 2345 | 0.3792 | 0.03199 | 2.382 | 57.18 | -2.1 1.0 |
| | | | | | OFF | 14 | 0.3761 | 0.03173 | 2.363 | 56.71 | -2.1 1.4 |
| 91 | 0 | 0 | 4 | 11 | 1 ON | 13 | 0.1702 | 0.01436 | 1.069 | 25.66 | -2.1-161.8 |
| | | | | | OFF | 23 | 0.1702 | 0.01436 | 1.069 | 25.66 | -2.1-160.1 |

| | | | | | | | | | | | | | |
|-----|---|---|-----|----|---|-----|------|--------|---------|-------|-------|------|--------|
| 93 | 0 | 0 | 4 | 11 | 1 | ON | 13 | 0.1702 | 0.01436 | 1.069 | 25.66 | -2.1 | -136.4 |
| | | | | | | OFF | 23 | 0.1702 | 0.01436 | 1.069 | 25.66 | -2.1 | -139.7 |
| 96 | 5 | 3 | 109 | 11 | 1 | ON | 1461 | 0.3513 | 0.02964 | 2.207 | 52.97 | -2.1 | -7.6 |
| | | | | | | OFF | 284 | 0.4084 | 0.03446 | 2.566 | 61.59 | -2.1 | -8.5 |
| 96 | 5 | 6 | 54 | 11 | 1 | ON | 1734 | 0.4144 | 0.03497 | 2.604 | 62.50 | -2.1 | -8.3 |
| | | | | | | OFF | 127 | 0.4243 | 0.03580 | 2.666 | 63.98 | -2.1 | -6.5 |
| 97 | 8 | 5 | 33 | 11 | 1 | ON | 1899 | 0.4254 | 0.03589 | 2.673 | 64.15 | -2.1 | -6.4 |
| | | | | | | OFF | 78 | 0.4251 | 0.03587 | 2.671 | 64.11 | -2.1 | -6.0 |
| 97 | 8 | 7 | 51 | 11 | 1 | ON | 2158 | 0.4113 | 0.03470 | 2.584 | 62.02 | -2.1 | -3.0 |
| | | | | | | OFF | 129 | 0.3908 | 0.03298 | 2.455 | 58.93 | -2.1 | 0.4 |
| 98 | 5 | 7 | 106 | 11 | 1 | ON | 1790 | 0.4199 | 0.03543 | 2.638 | 63.32 | -2.1 | -5.7 |
| | | | | | | OFF | 250 | 0.4224 | 0.03564 | 2.654 | 63.69 | -2.1 | -5.3 |
| 99 | 2 | 0 | 13 | 4 | 1 | ON | 471 | 0.2557 | 0.02157 | 1.606 | 38.55 | -2.1 | 39.6 |
| | | | | | | OFF | 48 | 0.2625 | 0.02215 | 1.650 | 39.59 | -2.1 | 39.0 |
| 99 | 2 | 4 | 24 | 11 | 1 | ON | 1723 | 0.4132 | 0.03486 | 2.596 | 62.31 | -2.1 | -4.9 |
| | | | | | | OFF | 60 | 0.4193 | 0.03538 | 2.634 | 63.23 | -2.1 | -5.6 |
| 100 | 5 | 2 | 37 | 11 | 1 | ON | 1709 | 0.4116 | 0.03473 | 2.586 | 62.06 | -2.1 | -6.1 |
| | | | | | | OFF | 92 | 0.4208 | 0.03551 | 2.644 | 63.45 | -2.1 | -6.6 |
| 105 | 9 | 4 | 20 | 11 | 1 | ON | 2327 | 0.3831 | 0.03232 | 2.407 | 57.77 | -2.1 | 1.6 |
| | | | | | | OFF | 55 | 0.3711 | 0.03131 | 2.332 | 55.96 | -2.1 | 3.0 |
| 106 | 9 | 2 | 19 | 11 | 1 | ON | 2049 | 0.4218 | 0.03559 | 2.650 | 63.61 | -2.1 | -4.9 |
| | | | | | | OFF | 40 | 0.4180 | 0.03527 | 2.626 | 63.03 | -2.1 | -4.1 |
| 111 | 4 | 4 | 16 | 11 | 1 | ON | 1809 | 0.4214 | 0.03555 | 2.647 | 63.54 | -2.1 | -5.5 |
| | | | | | | OFF | 40 | 0.4237 | 0.03575 | 2.662 | 63.90 | -2.1 | -5.8 |
| 112 | 3 | 3 | 58 | 11 | 1 | ON | 1764 | 0.4175 | 0.03523 | 2.623 | 62.96 | -2.2 | -4.4 |
| | | | | | | OFF | 141 | 0.4254 | 0.03590 | 2.673 | 64.15 | -2.2 | -5.8 |
| 112 | 3 | 8 | 50 | 11 | 1 | ON | 2260 | 0.3958 | 0.03339 | 2.487 | 59.68 | -2.2 | -1.4 |
| | | | | | | OFF | 134 | 0.3682 | 0.03107 | 2.313 | 55.52 | -2.2 | 1.8 |
| 113 | 3 | 1 | 8 | 4 | 1 | ON | 312 | 0.2374 | 0.02003 | 1.491 | 35.79 | -2.2 | 41.7 |
| | | | | | | OFF | 32 | 0.2405 | 0.02030 | 1.511 | 36.27 | -2.2 | 41.2 |
| 113 | 8 | 6 | 85 | 11 | 1 | ON | 1824 | 0.4222 | 0.03563 | 2.653 | 63.67 | -2.2 | -5.6 |
| | | | | | | OFF | 202 | 0.4231 | 0.03570 | 2.658 | 63.80 | -2.2 | -5.1 |
| 114 | 6 | 4 | 26 | 11 | 1 | ON | 1709 | 0.4114 | 0.03472 | 2.585 | 62.04 | -2.2 | -4.3 |
| | | | | | | OFF | 64 | 0.4184 | 0.03530 | 2.629 | 63.09 | -2.2 | -5.1 |
| 115 | 5 | 4 | 17 | 11 | 1 | ON | 1715 | 0.4122 | 0.03478 | 2.590 | 62.15 | -2.2 | -5.6 |
| | | | | | | OFF | 42 | 0.4169 | 0.03518 | 2.619 | 62.87 | -2.2 | -5.9 |
| 115 | 5 | 7 | 19 | 11 | 1 | ON | 2077 | 0.4196 | 0.03541 | 2.637 | 63.28 | -2.2 | -3.1 |
| | | | | | | OFF | 49 | 0.4149 | 0.03501 | 2.607 | 62.57 | -2.2 | -1.9 |
| 126 | 4 | 3 | 33 | 11 | 1 | ON | 1587 | 0.3926 | 0.03312 | 2.467 | 59.20 | -2.2 | -8.2 |
| | | | | | | OFF | 81 | 0.4061 | 0.03426 | 2.551 | 61.24 | -2.2 | -8.0 |
| 127 | 4 | 5 | 22 | 11 | 1 | ON | 1904 | 0.4254 | 0.03589 | 2.673 | 64.15 | -2.2 | -5.5 |
| | | | | | | OFF | 53 | 0.4254 | 0.03590 | 2.673 | 64.15 | -2.2 | -5.4 |
| 128 | 5 | 5 | 96 | 11 | 1 | ON | 1836 | 0.4229 | 0.03569 | 2.657 | 63.78 | -2.2 | -5.2 |
| | | | | | | OFF | 228 | 0.4206 | 0.03549 | 2.643 | 63.43 | -2.2 | -4.4 |
| 129 | 3 | 5 | 91 | 11 | 1 | ON | 1833 | 0.4228 | 0.03567 | 2.656 | 63.75 | -2.2 | -4.7 |
| | | | | | | OFF | 215 | 0.4218 | 0.03559 | 2.650 | 63.61 | -2.2 | -5.1 |
| 130 | 5 | 1 | 22 | 11 | 1 | ON | 1622 | 0.3954 | 0.03337 | 2.485 | 59.63 | -3.0 | -3.1 |
| | | | | | | OFF | 55 | 0.4047 | 0.03409 | 2.538 | 60.92 | -3.0 | -4.1 |
| 130 | 5 | 4 | 123 | 11 | 1 | ON | 1775 | 0.4151 | 0.03503 | 2.608 | 62.60 | -3.0 | -5.4 |
| | | | | | | OFF | 290 | 0.4171 | 0.03519 | 2.621 | 62.90 | -3.0 | -5.1 |
| 130 | 5 | 7 | 24 | 11 | 1 | ON | 2237 | 0.3963 | 0.03344 | 2.490 | 59.77 | -3.0 | -1.7 |

| | | | | | | | | | | | | |
|-----|---|---|-----|----|------|------|--------|---------|-------|-------|------|------|
| | | | | | OFF | 61 | 0.3853 | 0.03251 | 2.421 | 58.10 | -3.0 | -0.2 |
| 131 | 3 | 1 | 15 | 11 | 1 ON | 1855 | 0.4204 | 0.03548 | 2.642 | 63.40 | -3.0 | -6.1 |
| | | | | | OFF | 37 | 0.4217 | 0.03558 | 2.650 | 63.59 | -3.0 | -6.2 |
| 141 | 3 | 1 | 25 | 11 | 1 ON | 1651 | 0.4000 | 0.03375 | 2.513 | 60.32 | -3.0 | -0.1 |
| | | | | | OFF | 63 | 0.4087 | 0.03448 | 2.568 | 61.63 | -3.0 | -1.6 |
| 141 | 3 | 4 | 15 | 11 | 1 ON | 1984 | 0.4214 | 0.03555 | 2.648 | 63.54 | -3.0 | -6.2 |
| | | | | | OFF | 37 | 0.4199 | 0.03543 | 2.638 | 63.31 | -3.0 | -6.4 |
| 142 | 6 | 3 | 47 | 11 | 1 ON | 1934 | 0.4221 | 0.03562 | 2.652 | 63.66 | -3.0 | -5.7 |
| | | | | | OFF | 113 | 0.4184 | 0.03530 | 2.629 | 63.09 | -3.0 | -6.4 |
| 143 | 3 | 2 | 29 | 11 | 1 ON | 1722 | 0.4097 | 0.03457 | 2.574 | 61.78 | -3.0 | -4.9 |
| | | | | | OFF | 72 | 0.4168 | 0.03517 | 2.619 | 62.85 | -3.0 | -5.6 |
| 144 | 5 | 6 | 88 | 11 | 1 ON | 2015 | 0.4202 | 0.03545 | 2.640 | 63.36 | -3.0 | -6.3 |
| | | | | | OFF | 217 | 0.3971 | 0.03351 | 2.495 | 59.88 | -3.0 | -5.3 |
| 145 | 7 | 0 | 14 | 4 | 1 ON | 708 | 0.2915 | 0.02460 | 1.832 | 43.96 | -3.0 | 39.9 |
| | | | | | OFF | 47 | 0.3004 | 0.02535 | 1.888 | 45.31 | -3.0 | 39.4 |
| 145 | 7 | 2 | 128 | 11 | 1 ON | 1815 | 0.4182 | 0.03529 | 2.628 | 63.06 | -3.0 | -2.7 |
| | | | | | OFF | 301 | 0.4125 | 0.03481 | 2.592 | 62.21 | -3.0 | -7.0 |
| 157 | 7 | 3 | 11 | 11 | 1 ON | 1748 | 0.4126 | 0.03481 | 2.592 | 62.21 | -3.0 | -6.3 |
| | | | | | OFF | 27 | 0.4152 | 0.03503 | 2.609 | 62.61 | -3.0 | -6.3 |
| 157 | 7 | 4 | 59 | 11 | 1 ON | 1812 | 0.4180 | 0.03527 | 2.627 | 63.04 | -3.0 | -6.2 |
| | | | | | OFF | 142 | 0.4220 | 0.03561 | 2.651 | 63.64 | -3.0 | -4.8 |
| 159 | 3 | 3 | 93 | 11 | 1 ON | 1816 | 0.4165 | 0.03514 | 2.617 | 62.80 | -3.4 | -3.7 |
| | | | | | OFF | 224 | 0.4170 | 0.03519 | 2.620 | 62.89 | -3.4 | -6.5 |
| 159 | 3 | 7 | 17 | 11 | 1 ON | 2125 | 0.4100 | 0.03459 | 2.576 | 61.82 | -3.4 | -6.5 |
| | | | | | OFF | 42 | 0.4049 | 0.03417 | 2.544 | 61.06 | -3.4 | -6.3 |
| 160 | 8 | 2 | 50 | 11 | 1 ON | 1913 | 0.4202 | 0.03546 | 2.640 | 63.37 | -3.4 | -5.9 |
| | | | | | OFF | 119 | 0.4175 | 0.03523 | 2.623 | 62.95 | -3.4 | -5.8 |
| 160 | 8 | 7 | 27 | 11 | 1 ON | 2542 | 0.3264 | 0.02754 | 2.051 | 49.22 | -3.4 | 2.3 |
| | | | | | OFF | 87 | 0.3020 | 0.02548 | 1.898 | 45.54 | -3.4 | 2.9 |
| 161 | 4 | 3 | 22 | 11 | 1 ON | 1918 | 0.4200 | 0.03546 | 2.641 | 63.38 | -3.4 | -5.6 |
| | | | | | OFF | 55 | 0.4199 | 0.03543 | 2.638 | 63.31 | -3.4 | -4.6 |
| 162 | 2 | 3 | 33 | 11 | 1 ON | 2353 | 0.3728 | 0.03146 | 2.342 | 56.22 | -3.4 | -3.5 |
| | | | | | OFF | 93 | 0.3513 | 0.02965 | 2.208 | 52.98 | -3.4 | -2.2 |
| 166 | 7 | 3 | 24 | 11 | 1 ON | 2550 | 0.3243 | 0.02737 | 2.038 | 48.91 | -3.4 | -1.7 |
| | | | | | OFF | 82 | 0.3012 | 0.02541 | 1.892 | 45.42 | -3.4 | -1.4 |
| 167 | 7 | 1 | 18 | 11 | 1 ON | 2271 | 0.3880 | 0.03281 | 2.443 | 58.63 | -3.4 | -5.1 |
| | | | | | OFF | 49 | 0.3795 | 0.03202 | 2.384 | 57.22 | -3.4 | -4.5 |
| 172 | 5 | 6 | 60 | 11 | 1 ON | 2168 | 0.4048 | 0.03416 | 2.543 | 61.04 | -3.4 | -5.9 |
| | | | | | OFF | 155 | 0.3788 | 0.03197 | 2.380 | 57.13 | -3.4 | -4.3 |
| 173 | 4 | 3 | 61 | 11 | 1 ON | 1974 | 0.4198 | 0.03543 | 2.638 | 63.31 | -3.4 | -5.8 |
| | | | | | OFF | 146 | 0.4104 | 0.03463 | 2.578 | 61.88 | -3.4 | -5.6 |
| 173 | 4 | 6 | 92 | 11 | 1 ON | 2383 | 0.3661 | 0.03089 | 2.301 | 55.21 | -3.4 | -2.1 |
| | | | | | OFF | 276 | 0.2932 | 0.02474 | 1.842 | 44.21 | -3.4 | 0.3 |
| 174 | 4 | 1 | 47 | 11 | 1 ON | 1667 | 0.4007 | 0.03381 | 2.517 | 60.42 | -3.4 | -0.5 |
| | | | | | OFF | 115 | 0.4140 | 0.03493 | 2.601 | 62.42 | -3.4 | -2.9 |
| 174 | 4 | 4 | 38 | 11 | 1 ON | 2060 | 0.4157 | 0.03508 | 2.612 | 62.69 | -3.4 | -6.2 |
| | | | | | OFF | 93 | 0.4066 | 0.03431 | 2.555 | 61.32 | -3.4 | -5.9 |
| 175 | 5 | 3 | 40 | 11 | 1 ON | 1978 | 0.4217 | 0.03558 | 2.650 | 63.59 | -2.9 | -5.3 |
| | | | | | OFF | 96 | 0.4165 | 0.03514 | 2.617 | 62.81 | -2.9 | -5.6 |
| 175 | 5 | 5 | 48 | 11 | 1 ON | 2204 | 0.4016 | 0.03389 | 2.524 | 60.57 | -2.9 | -4.8 |
| | | | | | OFF | 123 | 0.3798 | 0.03205 | 2.386 | 57.27 | -2.9 | -3.4 |

| | | | | | | | | | | | | | |
|-----|---|---|-----|----|---|-----|------|--------|---------|-------|-------|------|------|
| 176 | 6 | 3 | 38 | 11 | 1 | ON | 2251 | 0.3942 | 0.03326 | 2.477 | 59.45 | -2.9 | 4.8 |
| | | | | | | OFF | 100 | 0.3748 | 0.03163 | 2.355 | 56.52 | -2.9 | 7.6 |
| 187 | 4 | 4 | 19 | 11 | 1 | ON | 2057 | 0.4179 | 0.03526 | 2.626 | 63.01 | -2.9 | -3.1 |
| | | | | | | OFF | 47 | 0.4139 | 0.03492 | 2.600 | 62.41 | -2.9 | -2.3 |
| 187 | 4 | 5 | 31 | 11 | 1 | ON | 2156 | 0.4083 | 0.03445 | 2.565 | 61.56 | -2.9 | -1.2 |
| | | | | | | OFF | 78 | 0.3969 | 0.03349 | 2.494 | 59.85 | -2.9 | 0.5 |
| 188 | 5 | 5 | 165 | 11 | 1 | ON | 2218 | 0.3996 | 0.03372 | 2.511 | 60.26 | -2.9 | -4.8 |
| | | | | | | OFF | 471 | 0.2859 | 0.02413 | 1.796 | 43.12 | -2.9 | -1.6 |
| 189 | 5 | 1 | 6 | 11 | 1 | ON | 683 | 0.1769 | 0.01492 | 1.111 | 26.67 | -2.9 | 5.8 |
| | | | | | | OFF | 31 | 0.1826 | 0.01541 | 1.147 | 27.54 | -2.9 | 6.5 |
| 189 | 6 | 6 | 33 | 11 | 1 | ON | 2210 | 0.4007 | 0.03381 | 2.518 | 60.43 | -2.9 | -7.7 |
| | | | | | | OFF | 86 | 0.3859 | 0.03256 | 2.425 | 58.19 | -2.9 | -8.1 |
| 190 | 5 | 5 | 77 | 11 | 1 | ON | 2062 | 0.4175 | 0.03523 | 2.624 | 62.96 | -2.9 | -5.0 |
| | | | | | | OFF | 189 | 0.3941 | 0.03326 | 2.476 | 59.43 | -2.9 | -3.5 |
| 191 | 3 | 2 | 41 | 11 | 1 | ON | 2087 | 0.4155 | 0.03506 | 2.611 | 62.66 | -2.9 | -5.7 |
| | | | | | | OFF | 102 | 0.4039 | 0.03408 | 2.537 | 60.90 | -2.9 | -5.8 |
| 203 | 5 | 2 | 36 | 11 | 1 | ON | 2102 | 0.4141 | 0.03494 | 2.602 | 62.45 | -2.9 | -2.8 |
| | | | | | | OFF | 90 | 0.4034 | 0.03404 | 2.535 | 60.83 | -2.9 | -1.3 |
| 203 | 5 | 6 | 25 | 11 | 1 | ON | 2415 | 0.3605 | 0.03042 | 2.265 | 54.36 | -2.9 | 2.9 |
| | | | | | | OFF | 73 | 0.3423 | 0.02888 | 2.151 | 51.61 | -2.9 | 4.0 |
| 204 | 3 | 6 | 33 | 11 | 1 | ON | 2338 | 0.3776 | 0.03186 | 2.373 | 56.95 | -2.9 | -3.4 |
| | | | | | | OFF | 92 | 0.3567 | 0.03009 | 2.241 | 53.78 | -2.9 | -2.5 |
| 205 | 5 | 5 | 86 | 11 | 1 | ON | 2134 | 0.4108 | 0.03466 | 2.581 | 61.95 | -2.9 | -5.0 |
| | | | | | | OFF | 220 | 0.3741 | 0.03157 | 2.351 | 56.42 | -2.9 | -3.3 |
| 206 | 5 | 3 | 147 | 11 | 1 | ON | 2047 | 0.4186 | 0.03532 | 2.630 | 63.12 | -2.9 | -5.0 |
| | | | | | | OFF | 373 | 0.3593 | 0.03031 | 2.257 | 54.17 | -2.9 | -3.0 |
| 213 | 2 | 0 | 9 | 11 | 1 | ON | 2541 | 0.3283 | 0.02770 | 2.063 | 49.51 | -2.9 | -1.7 |
| | | | | | | OFF | 19 | 0.3230 | 0.02726 | 2.030 | 48.71 | -2.9 | -1.7 |

RAMP PROFILE

R= 4 A= 1 PERIOD= 3860

R= 0.3715 A= 0.1302

| TUR | PER | CPS | ANG-V |
|------|-------|--------|---------|
| 0 | 4.420 | 0.2262 | 0.02046 |
| 100 | 4.383 | 0.2282 | 0.02064 |
| 200 | 4.287 | 0.2333 | 0.02110 |
| 300 | 4.141 | 0.2415 | 0.02184 |
| 400 | 3.959 | 0.2526 | 0.02284 |
| 500 | 3.754 | 0.2664 | 0.02409 |
| 600 | 3.539 | 0.2826 | 0.02556 |
| 700 | 3.323 | 0.3009 | 0.02722 |
| 800 | 3.116 | 0.3210 | 0.02903 |
| 900 | 2.921 | 0.3424 | 0.03097 |
| 1000 | 2.742 | 0.3647 | 0.03298 |
| 1100 | 2.578 | 0.3878 | 0.03508 |
| 1200 | 2.395 | 0.4176 | 0.03777 |
| 1300 | 2.241 | 0.4462 | 0.04036 |
| 1400 | 2.210 | 0.4525 | 0.04092 |
| 1500 | 2.197 | 0.4552 | 0.04117 |
| 1600 | 2.188 | 0.4571 | 0.04134 |

| | | | |
|------|-------|--------|---------|
| 1700 | 2.182 | 0.4583 | 0.04145 |
| 1800 | 2.179 | 0.4589 | 0.04151 |
| 1900 | 2.178 | 0.4592 | 0.04153 |
| 2000 | 2.178 | 0.4591 | 0.04152 |
| 2100 | 2.181 | 0.4586 | 0.04148 |
| 2200 | 2.185 | 0.4576 | 0.04139 |
| 2300 | 2.193 | 0.4560 | 0.04125 |
| 2400 | 2.204 | 0.4537 | 0.04103 |
| 2500 | 2.220 | 0.4504 | 0.04074 |
| 2600 | 2.330 | 0.4292 | 0.03882 |
| 2700 | 2.501 | 0.3998 | 0.03616 |
| 2800 | 2.676 | 0.3738 | 0.03380 |
| 2900 | 2.847 | 0.3512 | 0.03176 |
| 3000 | 3.036 | 0.3294 | 0.02979 |
| 3100 | 3.239 | 0.3087 | 0.02792 |
| 3200 | 3.452 | 0.2897 | 0.02620 |
| 3300 | 3.669 | 0.2726 | 0.02465 |
| 3400 | 3.879 | 0.2578 | 0.02331 |
| 3500 | 4.072 | 0.2456 | 0.02221 |
| 3600 | 4.234 | 0.2362 | 0.02136 |
| 3700 | 4.351 | 0.2298 | 0.02079 |
| 3800 | 4.412 | 0.2266 | 0.02050 |

RAMP PROFILE

R= 11 A= 1 PERIOD= 3860
R= 0.2724 A= 0.1302

| TUK | PER | CPS | ANG-V |
|------|-------|--------|---------|
| 0 | 9.115 | 0.1097 | 0.00992 |
| 100 | 8.953 | 0.1117 | 0.01010 |
| 200 | 8.554 | 0.1169 | 0.01057 |
| 300 | 7.984 | 0.1253 | 0.01133 |
| 400 | 7.322 | 0.1366 | 0.01235 |
| 500 | 6.638 | 0.1506 | 0.01363 |
| 600 | 5.981 | 0.1672 | 0.01512 |
| 700 | 5.380 | 0.1859 | 0.01681 |
| 800 | 4.846 | 0.2064 | 0.01866 |
| 900 | 4.382 | 0.2282 | 0.02064 |
| 1000 | 3.985 | 0.2510 | 0.02270 |
| 1100 | 3.641 | 0.2746 | 0.02484 |
| 1200 | 3.276 | 0.3053 | 0.02761 |
| 1300 | 2.987 | 0.3348 | 0.03028 |
| 1400 | 2.762 | 0.3621 | 0.03275 |
| 1500 | 2.589 | 0.3863 | 0.03493 |
| 1600 | 2.461 | 0.4063 | 0.03675 |
| 1700 | 2.372 | 0.4216 | 0.03813 |
| 1800 | 2.318 | 0.4314 | 0.03902 |
| 1900 | 2.296 | 0.4356 | 0.03939 |
| 2000 | 2.305 | 0.4338 | 0.03923 |
| 2100 | 2.346 | 0.4262 | 0.03855 |
| 2200 | 2.421 | 0.4130 | 0.03736 |
| 2300 | 2.533 | 0.3948 | 0.03571 |

| | | | |
|------|-------|--------|---------|
| 2400 | 2.687 | 0.3722 | 0.03366 |
| 2500 | 2.890 | 0.3460 | 0.03130 |
| 2600 | 3.152 | 0.3173 | 0.02870 |
| 2700 | 3.485 | 0.2869 | 0.02595 |
| 2800 | 3.843 | 0.2602 | 0.02354 |
| 2900 | 4.216 | 0.2372 | 0.02145 |
| 3000 | 4.652 | 0.2150 | 0.01944 |
| 3100 | 5.158 | 0.1939 | 0.01754 |
| 3200 | 5.733 | 0.1744 | 0.01578 |
| 3300 | 6.370 | 0.1570 | 0.01420 |
| 3400 | 7.048 | 0.1419 | 0.01283 |
| 3500 | 7.726 | 0.1294 | 0.01171 |
| 3600 | 8.342 | 0.1199 | 0.01084 |
| 3700 | 8.819 | 0.1134 | 0.01026 |
| 3800 | 9.081 | 0.1101 | 0.00996 |

CLOCK CORRELATION SUMMARY

| ORDER | FIT | ONE | | | | | | | |
|-------------|------|--------------|----|--------------|-----|---------|-----|------|-------|
| SYS | TIME | I/P | CL | TIME | I/P | COMP | SYS | TM | DELTA |
| | | | | | | | | | ST |
| | | | | | | | | | REV |
| | | | | | | | | | STA |
| 0.35942553D | 05 | 0.669984510D | 05 | 0.359425587D | 05 | -0.0057 | 8 | COOK | |
| 0.77299301D | 05 | 0.108355212D | 06 | 0.772993131D | 05 | -0.0121 | 15 | COOK | |
| 0.34670553D | 05 | 0.152126467D | 06 | 0.346705611D | 05 | -0.0081 | 23 | COOK | |
| 0.38564943D | 05 | 0.242420863D | 06 | 0.385649427D | 05 | 0.0003 | 39 | COOK | |
| 0.37402063D | 05 | 0.327657992D | 06 | 0.374020580D | 05 | 0.0050 | 54 | COOK | |
| 0.78507948D | 05 | 0.368763891D | 06 | 0.785079505D | 05 | -0.0025 | 61 | COOK | |
| 0.35645340D | 05 | 0.412301281D | 06 | 0.356453335D | 05 | 0.0065 | 69 | COOK | |
| 0.34192423D | 05 | 0.497248386D | 06 | 0.341924249D | 05 | -0.0019 | 84 | COOK | |
| 0.32634187D | 05 | 0.452192410D | 05 | 0.326341783D | 05 | 0.0087 | 99 | COOK | |
| 0.73898939D | 05 | 0.864839940D | 05 | 0.738989247D | 05 | 0.0143 | 106 | COOK | |
| 0.31032555D | 05 | 0.130017623D | 06 | 0.310325468D | 05 | 0.0082 | 114 | COOK | |
| 0.29509998D | 05 | 0.214895081D | 06 | 0.295099912D | 05 | 0.0068 | 129 | COOK | |
| 0.76390564D | 05 | 0.261775661D | 06 | 0.763905637D | 05 | 0.0003 | 137 | COOK | |
| 0.33480743D | 05 | 0.305265843D | 06 | 0.334807387D | 05 | 0.0043 | 145 | COOK | |
| 0.31931560D | 05 | 0.390116678D | 06 | 0.319315602D | 05 | -0.0002 | 160 | COOK | |
| 0.73190648D | 05 | 0.431375772D | 06 | 0.731906476D | 05 | 0.0004 | 167 | COOK | |
| 0.30254346D | 05 | 0.474839481D | 06 | 0.302543496D | 05 | -0.0036 | 175 | COOK | |
| 0.34218559D | 05 | 0.283327980D | 05 | 0.342185642D | 05 | -0.0052 | 191 | COOK | |
| 0.26956430D | 05 | 0.107470681D | 06 | 0.269564345D | 05 | -0.0045 | 205 | COOK | |
| 0.73835700D | 05 | 0.154349965D | 06 | 0.738357110D | 05 | -0.0110 | 213 | COOK | |

A0=-0.3105588157D 05 A1=0.999999840069D 00

SIGMA=0.00660 NO. POINTS= 20

RATIO OF CLOCK TIME TO SYS TIME= 0.100000015993D 01

ORDER FIT TWO

| ORDER | FIT | TWO | | | | | | | |
|-------------|------|--------------|----|--------------|-----|---------|-----|------|-------|
| SYS | TIME | I/P | CL | TIME | I/P | COMP | SYS | TM | DELTA |
| | | | | | | | | | ST |
| | | | | | | | | | REV |
| | | | | | | | | | STA |
| 0.35942553D | 05 | 0.669984510D | 05 | 0.359425488D | 05 | 0.0042 | 8 | COOK | |
| 0.77299301D | 05 | 0.108355212D | 06 | 0.772993054D | 05 | -0.0044 | 15 | COOK | |
| 0.34670553D | 05 | 0.152126467D | 06 | 0.346705556D | 05 | -0.0026 | 23 | COOK | |
| 0.38564943D | 05 | 0.242420863D | 06 | 0.385649411D | 05 | 0.0019 | 39 | COOK | |
| 0.37402063D | 05 | 0.327657992D | 06 | 0.374020595D | 05 | 0.0035 | 54 | COOK | |

| | | | | |
|----------------|-----------------|-----------------|---------|--------|
| 0.78507948D 05 | 0.368763891D 06 | 0.785079531D 05 | -0.0051 | 61 CO |
| 0.35645340D 05 | 0.412301281D 06 | 0.356453372D 05 | 0.0028 | 69 CO |
| 0.34192423D 05 | 0.497248386D 06 | 0.341924301D 05 | -0.0071 | 84 CO |
| 0.32634187D 05 | 0.452192410D 05 | 0.326341844D 05 | 0.0026 | 99 CO |
| 0.73898939D 05 | 0.864839940D 05 | 0.738989309D 05 | 0.0081 | 106 CO |
| 0.31032555D 05 | 0.130017623D 06 | 0.310325529D 05 | 0.0021 | 114 CO |
| 0.29509998D 05 | 0.214895081D 06 | 0.295099968D 05 | 0.0012 | 129 CO |
| 0.76390564D 05 | 0.261775661D 06 | 0.763905687D 05 | -0.0047 | 137 CO |
| 0.33480743D 05 | 0.305265843D 06 | 0.334807429D 05 | 0.0001 | 145 CO |
| 0.31931560D 05 | 0.390116678D 06 | 0.319315623D 05 | -0.0023 | 160 CO |
| 0.73190648D 05 | 0.431375772D 06 | 0.731906484D 05 | -0.0004 | 167 CO |
| 0.30254346D 05 | 0.474839481D 06 | 0.302543490D 05 | -0.0030 | 175 CO |
| 0.34218559D 05 | 0.283327980D 05 | 0.342185598D 05 | -0.0008 | 191 CO |
| 0.26956430D 05 | 0.107470681D 06 | 0.269564262D 05 | 0.0038 | 205 CO |
| 0.73835700D 05 | 0.154349965D 06 | 0.738357001D 05 | -0.0001 | 213 CO |

A2=-0.3105589554D 05 A1= 2.999999903230D 00
A2=-0.4942993147984D-13
SIGMA=0.00361 NO. POINTS= 20

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER 208

| OPN NO | FR | H | M | S | DEC | BINARY EQUIVALENT |
|--------|----|---|-----|-----|----------|--------------------------------------|
| 84 | 5 | 8 | 5 | ON | 10 5 38 | 499394 11101110001000010010111010000 |
| | | | | OFF | 10 5 52 | 499408 11101110001000101110010000000 |
| 91 | 0 | 0 | 4 | ON | 21 0 14 | 1799 00000000110110111001101011000 |
| | | | | OFF | 21 0 37 | 1822 00000000110111100110100110000 |
| 93 | 0 | 0 | 3 | ON | 0 1 6 | 12651 00000110000010000100111111000 |
| | | | | OFF | 0 1 29 | 12674 00000110000010110001111010000 |
| 96 | 5 | 3 | 111 | ON | 4 42 24 | 29529 00001110000101001001110101000 |
| | | | | OFF | 4 47 8 | 29813 0000111000110110100100001000 |
| 96 | 5 | 6 | 54 | ON | 4 47 57 | 29862 00001110001111010100001110000 |
| | | | | OFF | 4 50 4 | 29989 00001110010011001100010001000 |
| 97 | 8 | 5 | 33 | ON | 6 23 18 | 35583 00010000111101111010000011000 |
| | | | | OFF | 6 24 36 | 35661 0001000100000010010011001000 |
| 97 | 8 | 7 | 52 | ON | 6 27 36 | 35842 00010001000101110011111010000 |
| | | | | OFF | 6 29 45 | 35971 00010001001001101111101110000 |
| 98 | 5 | 7 | 107 | ON | 7 55 39 | 41124 00010011100111000000010100000 |
| | | | | OFF | 7 59 49 | 41374 00010011101110101000100110000 |
| 99 | 2 | 0 | 13 | ON | 9 7 54 | 45460 00010101101011010101000100000 |
| | | | | OFF | 9 8 42 | 45508 00010101101101100101101000000 |
| 99 | 2 | 4 | 24 | ON | 9 28 46 | 46711 00010110010001100000011011000 |
| | | | | OFF | 9 29 46 | 46771 00010110010011010101100111000 |
| 100 | 5 | 2 | 38 | ON | 11 3 20 | 52385 00011000111110101010011101000 |
| | | | | OFF | 11 4 52 | 52477 00011001000001011110001001000 |
| 105 | 9 | 4 | 20 | ON | 19 4 4 | 81229 00100110101110111010011001000 |
| | | | | OFF | 19 4 59 | 81284 00100110110000100101110100000 |
| 106 | 9 | 2 | 19 | ON | 20 33 39 | 86604 00101001010001011110001110000 |
| | | | | OFF | 20 34 27 | 86652 00101001010100011010001100000 |
| 111 | 4 | 4 | 16 | ON | 4 20 39 | 114624 00110110101010000011000000000 |
| | | | | OFF | 4 21 19 | 114664 00110110101011010001001000000 |

| | | | | | | | | | |
|-----|---|---|-----|-----|----|----|----|--------|--------------------------------|
| 112 | 3 | 3 | 60 | ON | 5 | 53 | 48 | 120213 | 00111001010100100111000001000 |
| | | | | OFF | 5 | 56 | 9 | 120354 | 00111001011000111010011010000 |
| 112 | 3 | 8 | 51 | ON | 6 | 2 | 3 | 120708 | 00111001100011101101110100000 |
| | | | | OFF | 6 | 4 | 17 | 120842 | 00111001100111110011100010000 |
| 113 | 3 | 1 | 8 | ON | 7 | 4 | 4 | 124429 | 00111011010101010001011001000 |
| | | | | OFF | 7 | 4 | 36 | 124461 | 00111011010110001111111001000 |
| 113 | 8 | 6 | 87 | ON | 7 | 29 | 15 | 125940 | 00111100000011011000100100000 |
| | | | | OFF | 7 | 32 | 37 | 126142 | 00111100001001100011000110000 |
| 114 | 6 | 4 | 26 | ON | 9 | 1 | 33 | 131470 | 00111110101100011000111110000 |
| | | | | OFF | 9 | 2 | 37 | 131542 | 00111110101110010101111110000 |
| 115 | 5 | 4 | 17 | ON | 10 | 36 | 19 | 137164 | 01000001011001111010011100000 |
| | | | | OFF | 10 | 37 | 1 | 137206 | 01000001011011001100011110000 |
| 115 | 5 | 7 | 20 | ON | 10 | 42 | 22 | 137527 | 01000001100100111111011011000 |
| | | | | OFF | 10 | 43 | 11 | 137576 | 01000001100110011111001000000 |
| 126 | 4 | 3 | 32 | ON | 3 | 51 | 27 | 199272 | 01011111000001010011001000000 |
| | | | | OFF | 3 | 52 | 48 | 199353 | 01011111000011110001010101000 |
| 127 | 4 | 5 | 22 | ON | 5 | 29 | 3 | 205128 | 011000011101000000010100000 |
| | | | | OFF | 5 | 29 | 56 | 205181 | 01100001110101101000010001000 |
| 128 | 5 | 5 | 98 | ON | 7 | 2 | 5 | 210710 | 01100100011110010110111110000 |
| | | | | OFF | 7 | 5 | 53 | 210938 | 01100100100101010100010010000 |
| 129 | 3 | 5 | 92 | ON | 8 | 35 | 55 | 216340 | 01100111001010001011000100000 |
| | | | | OFF | 8 | 39 | 30 | 216555 | 01100111010000101110111111000 |
| 130 | 5 | 1 | 22 | ON | 10 | 6 | 53 | 221798 | 01101001110000101111001110000 |
| | | | | OFF | 10 | 7 | 48 | 221853 | 01101001110010011010101001000 |
| 130 | 5 | 4 | 124 | ON | 10 | 9 | 26 | 221951 | 01101001110101011010000011000 |
| | | | | OFF | 10 | 14 | 16 | 222241 | 01101001111110010000011101000 |
| 130 | 5 | 7 | 24 | ON | 10 | 17 | 8 | 222413 | 01101010000011100000011001000 |
| | | | | OFF | 10 | 18 | 9 | 222474 | 01101010000101010111100010000 |
| 131 | 3 | 1 | 15 | ON | 11 | 44 | 58 | 227683 | 01101100100100010101010111000 |
| | | | | OFF | 11 | 45 | 35 | 227720 | 01101100100101011101101000000 |
| 141 | 3 | 1 | 25 | ON | 3 | 22 | 9 | 283913 | 1000011011000010101100101000 |
| | | | | OFF | 3 | 23 | 12 | 283976 | 10000111011010010000101000000 |
| 141 | 3 | 4 | 15 | ON | 3 | 27 | 42 | 284247 | 10000111100010100001111011000 |
| | | | | OFF | 3 | 28 | 19 | 284284 | 10000111100011101010001100000 |
| 142 | 6 | 3 | 48 | ON | 5 | 1 | 2 | 289847 | 10001010001101011011011011000 |
| | | | | OFF | 5 | 2 | 55 | 289960 | 10001010010000111000001000000 |
| 143 | 3 | 2 | 30 | ON | 6 | 32 | 45 | 295350 | 10001100110101010111011110000 |
| | | | | OFF | 6 | 33 | 57 | 295422 | 10001100110111100100000110000 |
| 144 | 5 | 6 | 90 | ON | 8 | 10 | 40 | 301225 | 10001111101000101010000101000 |
| | | | | OFF | 8 | 14 | 17 | 301442 | 10001111101111010001111010000 |
| 145 | 7 | 6 | 14 | ON | 9 | 22 | 35 | 305540 | 10010001101100010101110100000 |
| | | | | OFF | 9 | 23 | 22 | 305587 | 10010001101101110001100111000 |
| 145 | 7 | 2 | 129 | ON | 9 | 41 | 2 | 306647 | 10010010001110000111110110000 |
| | | | | OFF | 9 | 46 | 3 | 306948 | 10010010010111010011110100000 |
| 157 | 7 | 3 | 11 | ON | 4 | 31 | 52 | 374497 | 101100101001001011101110101000 |
| | | | | OFF | 4 | 32 | 19 | 374524 | 10110010100101100100001100000 |
| 157 | 7 | 4 | 59 | ON | 4 | 32 | 56 | 374561 | 10110010100110101000111010000 |
| | | | | OFF | 4 | 35 | 18 | 374703 | 10110010101011000001110011000 |
| 159 | 3 | 3 | 96 | ON | 7 | 39 | 17 | 385742 | 10110111110111110100101100000 |
| | | | | OFF | 7 | 43 | 1 | 385966 | 10111000000010101111101100000 |
| 159 | 3 | 7 | 17 | ON | 7 | 44 | 26 | 386051 | 10111000000101010101110111000 |

| | | | | | | | | | |
|-----|---|---|-----|-----|----|----|----|--------|-------------------------------|
| 160 | 8 | 2 | 50 | OFF | 7 | 45 | 8 | 386893 | 1011100000011010011111001000 |
| | | | | ON | 9 | 15 | 47 | 391532 | 1011010101100100110111100000 |
| | | | | OFF | 9 | 17 | 46 | 391651 | 1011010110000001111010111000 |
| 160 | 8 | 7 | 27 | ON | 9 | 26 | 15 | 392161 | 1011010111111110011011010000 |
| | | | | OFF | 9 | 27 | 42 | 392248 | 1011011000010011101011000000 |
| 161 | 4 | 3 | 23 | ON | 10 | 51 | 22 | 397267 | 1011101011011101000000111000 |
| | | | | OFF | 10 | 52 | 17 | 397322 | 1011101011101010011100010000 |
| 162 | 2 | 3 | 34 | ON | 12 | 30 | 45 | 403230 | 11000000010001100110100110000 |
| | | | | OFF | 12 | 32 | 18 | 403323 | 11000000010100011100001111000 |
| 166 | 7 | 3 | 25 | ON | 18 | 50 | 23 | 426008 | 11001011001000101110111000000 |
| | | | | OFF | 18 | 51 | 45 | 426090 | 11001011001011001111000010000 |
| 167 | 7 | 1 | 19 | ON | 20 | 19 | 50 | 431376 | 11001101101100100011010000000 |
| | | | | OFF | 20 | 20 | 39 | 431425 | 11001101101110000010111101000 |
| 172 | 5 | 6 | 62 | ON | 4 | 8 | 42 | 459507 | 11011011000111000010100111000 |
| | | | | OFF | 4 | 11 | 17 | 459662 | 11011011001011110001010110000 |
| 173 | 4 | 3 | 62 | ON | 5 | 39 | 52 | 464977 | 11011101101101111110001101000 |
| | | | | OFF | 5 | 42 | 18 | 465123 | 11011101110010011011010111000 |
| 173 | 4 | 6 | 93 | ON | 5 | 46 | 41 | 465386 | 11011101111010011101000010000 |
| | | | | OFF | 5 | 51 | 17 | 465662 | 110111100001011100000110000 |
| 174 | 4 | 1 | 47 | ON | 7 | 8 | 34 | 470299 | 1110000001000001100010111000 |
| | | | | OFF | 7 | 10 | 29 | 470414 | 1110000001001111001010110000 |
| 174 | 4 | 4 | 38 | ON | 7 | 15 | 8 | 470692 | 11100000011100011000010100000 |
| | | | | OFF | 7 | 16 | 41 | 470785 | 11100000011111001101111101000 |
| 175 | 5 | 3 | 40 | ON | 8 | 47 | 57 | 476262 | 11100011000110010111001110000 |
| | | | | OFF | 8 | 49 | 33 | 476358 | 11100011001001010010101110000 |
| 175 | 5 | 5 | 48 | ON | 8 | 51 | 43 | 476488 | 11100011001101010000101000000 |
| | | | | OFF | 8 | 53 | 46 | 476611 | 11100011010001000000101110000 |
| 176 | 6 | 3 | 39 | ON | 10 | 28 | 54 | 482319 | 11100101111111001101010011000 |
| | | | | OFF | 10 | 30 | 34 | 482419 | 11100110000010010000100111000 |
| 187 | 4 | 4 | 19 | ON | 3 | 39 | 44 | 7298 | 00000011011110101101111010000 |
| | | | | OFF | 3 | 40 | 31 | 7345 | 00000011100000001001101101000 |
| 187 | 4 | 5 | 32 | ON | 3 | 41 | 23 | 7397 | 00000011100001101111010001000 |
| | | | | OFF | 3 | 42 | 41 | 7475 | 00000011100100000111100111000 |
| 188 | 5 | 5 | 167 | ON | 5 | 15 | 0 | 13014 | 00000110001101001001111110000 |
| | | | | OFF | 5 | 22 | 51 | 13485 | 00000110011011100001111001000 |
| 189 | 5 | 1 | 6 | ON | 6 | 22 | 20 | 17055 | 000010000100011110100011000 |
| | | | | OFF | 6 | 22 | 51 | 17086 | 000010000100101101100011000 |
| 189 | 6 | 6 | 33 | ON | 6 | 47 | 48 | 18582 | 00001000110111000100111110000 |
| | | | | OFF | 6 | 49 | 14 | 18668 | 00001000111001101100111110000 |
| 192 | 5 | 5 | 78 | ON | 8 | 23 | 52 | 24166 | 00001011100001011111001110000 |
| | | | | OFF | 8 | 24 | 1 | 24355 | 00001011100111010000010111000 |
| 191 | 3 | 2 | 42 | ON | 9 | 54 | 45 | 29799 | 00001110001101011001001011000 |
| | | | | OFF | 9 | 56 | 27 | 29901 | 00001110010000100000011001000 |
| 203 | 5 | 2 | 36 | ON | 4 | 45 | 21 | 97635 | 00101110100011100101010111000 |
| | | | | OFF | 4 | 46 | 51 | 97725 | 00101110100110010101001001000 |
| 203 | 5 | 6 | 25 | ON | 4 | 50 | 34 | 97948 | 00101110101101001000101100000 |
| | | | | OFF | 4 | 51 | 47 | 98021 | 00101110101111010111010001000 |
| 204 | 3 | 6 | 34 | ON | 6 | 22 | 11 | 103445 | 00110001010100111001000001000 |
| | | | | OFF | 6 | 23 | 43 | 103537 | 00110001010111101100101101000 |
| 205 | 5 | 5 | 80 | ON | 7 | 52 | 50 | 108884 | 00110011111010111000000100000 |
| | | | | OFF | 7 | 56 | 30 | 109104 | 00110100000001100101110000000 |

| | | | | | |
|-----|---------|-----|----------|--------|-------------------------------|
| 286 | 5 3 150 | ON | 9 25 21 | 114435 | 00110110100100010001110111000 |
| | | OFF | 9 31 34 | 114888 | 00110110101111101010011000000 |
| 213 | 2 0 9 | ON | 20 32 2 | 154436 | 01001001101001000000110100000 |
| | | OFF | 20 32 21 | 154455 | 01001001101001100101111011000 |

CLOCK OPERATIONS

AFT PAN CAMERA NUMBER 209

| OPN NO | FR | | H | M | S | DEC | BINARY EQUIVALENT | |
|--------|---------|---|-----|----|----|-----|-------------------|---------------------------------|
| 84 | 5 8 | 6 | ON | 10 | 5 | 51 | 499407 | 11101110001000101100010011000 |
| | | | OFF | 10 | 6 | 5 | 499421 | 11101110001001000111101001000 |
| 91 | 2 0 | 4 | ON | 21 | 0 | 27 | 1812 | 00000000110111010011000100000 |
| | | | OFF | 21 | 0 | 50 | 1835 | 0000000011011111111111111110000 |
| 93 | 0 0 | 4 | ON | 0 | 1 | 19 | 12664 | 00000110000010011110011000000 |
| | | | OFF | 0 | 1 | 42 | 12687 | 0000011000000110010110100010000 |
| 96 | 5 3 129 | | ON | 4 | 42 | 37 | 29543 | 0000111000001011001010010110000 |
| | | | OFF | 4 | 47 | 21 | 29827 | 0000111000011100011111101110000 |
| 96 | 5 6 54 | | ON | 4 | 48 | 10 | 29875 | 00001110001111101101100111000 |
| | | | OFF | 4 | 50 | 17 | 30002 | 00001110010011100101101010000 |
| 97 | 8 5 33 | | ON | 6 | 23 | 31 | 35596 | 00010000111110010010111100000 |
| | | | OFF | 6 | 24 | 49 | 35674 | 00010001000000101011110010000 |
| 97 | 8 7 51 | | ON | 6 | 27 | 49 | 35855 | 00010001000110001101010011000 |
| | | | OFF | 6 | 29 | 58 | 35984 | 00010001001010001001010000000 |
| 98 | 5 7 106 | | ON | 7 | 55 | 52 | 41138 | 00010011100111011011101010000 |
| | | | OFF | 8 | 0 | 2 | 41308 | 00010011101111000011111100000 |
| 99 | 2 0 13 | | ON | 9 | 8 | 7 | 45473 | 00010101101011101110011101000 |
| | | | OFF | 9 | 8 | 55 | 45521 | 00010101101101001100001101000 |
| 99 | 2 4 24 | | ON | 9 | 28 | 59 | 46725 | 00010110010001111011110001000 |
| | | | OFF | 9 | 29 | 59 | 46785 | 00010110010011110000111010000 |
| 100 | 5 2 37 | | ON | 11 | 3 | 33 | 52398 | 00011000111111000011101100000 |
| | | | OFF | 11 | 5 | 5 | 52490 | 00011001000011101111000100000 |
| 105 | 9 4 20 | | ON | 19 | 4 | 17 | 81243 | 00100110101111010101011110000 |
| | | | OFF | 19 | 5 | 12 | 81298 | 00100110110001000010010100000 |
| 106 | 9 2 19 | | ON | 20 | 33 | 52 | 86617 | 00101001010011010101110101000 |
| | | | OFF | 20 | 34 | 40 | 86665 | 00101001010100110011100101000 |
| 111 | 4 4 16 | | ON | 4 | 20 | 52 | 114637 | 00110110101010011100011001000 |
| | | | OFF | 4 | 21 | 32 | 114677 | 00110110101011101010100001000 |
| 112 | 3 3 58 | | ON | 5 | 54 | 1 | 120226 | 00111001010101000000011010000 |
| | | | OFF | 5 | 56 | 22 | 120367 | 00111001011001010011110011000 |
| 112 | 3 8 50 | | ON | 6 | 2 | 16 | 120722 | 00111001100100001001001010000 |
| | | | OFF | 6 | 4 | 30 | 120856 | 00111001101000000111011100000 |
| 113 | 3 1 8 | | ON | 7 | 4 | 17 | 124442 | 00111011010101101010110010000 |
| | | | OFF | 7 | 4 | 49 | 124474 | 00111011010110101001010010000 |
| 113 | 8 6 85 | | ON | 7 | 29 | 28 | 125953 | 00111100000011110001111101000 |
| | | | OFF | 7 | 32 | 50 | 126155 | 00111100001001111100011111000 |
| 114 | 6 4 26 | | ON | 9 | 1 | 46 | 131492 | 00111110101100110100010100000 |
| | | | OFF | 9 | 2 | 50 | 131556 | 00111110101110110001010100000 |
| 115 | 5 4 17 | | ON | 10 | 36 | 32 | 137177 | 01000001011010010011110101000 |
| | | | OFF | 10 | 37 | 14 | 137219 | 01000001011011001011101110000 |
| 115 | 5 7 19 | | ON | 10 | 42 | 35 | 137540 | 01000001100101011000110100000 |
| | | | OFF | 10 | 43 | 24 | 137589 | 01000001100110111000100001000 |

| | | | | | | | | | |
|-----|---|---|-----|-----|----|----|----|--------|---------------------------------|
| 126 | 4 | 3 | 33 | ON | 3 | 51 | 48 | 199286 | 01011111000001101110011110000 |
| | | | | OFF | 3 | 53 | 1 | 199367 | 01011111000100001100101011000 |
| 127 | 4 | 5 | 22 | ON | 5 | 29 | 16 | 205141 | 01100001110100011010000001000 |
| | | | | OFF | 5 | 30 | 9 | 205194 | 01100001110110000001100010000 |
| 128 | 5 | 5 | 96 | ON | 7 | 2 | 18 | 210724 | 01100100011110110010010100000 |
| | | | | OFF | 7 | 6 | 6 | 210952 | 01100100100101101111101000000 |
| 129 | 3 | 5 | 91 | ON | 8 | 36 | 8 | 216354 | 01100111001010100110011010000 |
| | | | | OFF | 8 | 39 | 43 | 216569 | 01100111010001001010010101000 |
| 130 | 5 | 1 | 22 | ON | 10 | 7 | 6 | 221811 | 01101001110001001000100111000 |
| | | | | OFF | 10 | 8 | 1 | 221866 | 01101001110001011010000001000 |
| 130 | 5 | 4 | 123 | ON | 10 | 9 | 39 | 221965 | 011010011101011101010111001000 |
| | | | | OFF | 10 | 14 | 29 | 222255 | 0110100111111010111001110011000 |
| 130 | 5 | 7 | 24 | ON | 10 | 17 | 21 | 222427 | 01101010000011110111011111000 |
| | | | | OFF | 10 | 18 | 22 | 222488 | 01101010000101110010111000000 |
| 131 | 3 | 1 | 15 | ON | 11 | 45 | 11 | 227696 | 01101100100100101110110000000 |
| | | | | OFF | 11 | 45 | 48 | 227733 | 01101100100101110111000001000 |
| 141 | 3 | 1 | 25 | ON | 3 | 22 | 22 | 283927 | 10000111011000110000111011000 |
| | | | | OFF | 3 | 23 | 25 | 283990 | 10000111011010101011111100000 |
| 141 | 3 | 4 | 15 | ON | 3 | 27 | 55 | 284260 | 10000111100010111011010100000 |
| | | | | OFF | 3 | 28 | 32 | 284297 | 10000111100100000011100101000 |
| 142 | 6 | 3 | 47 | ON | 5 | 1 | 15 | 289861 | 10001010001101110110110001000 |
| | | | | OFF | 5 | 3 | 8 | 289974 | 10001010010001010011011110000 |
| 143 | 3 | 2 | 29 | ON | 6 | 32 | 58 | 295363 | 10001100110101110000110111000 |
| | | | | OFF | 6 | 34 | 10 | 295435 | 10001100110111111101011111000 |
| 144 | 5 | 6 | 88 | ON | 8 | 10 | 53 | 301238 | 10001111101001000011011110000 |
| | | | | OFF | 8 | 14 | 30 | 301455 | 10001111101111101011010011000 |
| 145 | 7 | 0 | 14 | ON | 9 | 22 | 48 | 305553 | 100100011011000101111001101000 |
| | | | | OFF | 9 | 23 | 35 | 305600 | 10010001101110001011000000000 |
| 145 | 7 | 2 | 128 | ON | 9 | 41 | 15 | 306661 | 10010010001110100011010001000 |
| | | | | OFF | 9 | 46 | 16 | 306962 | 10010010010111101111001010000 |
| 157 | 7 | 3 | 11 | ON | 4 | 32 | 5 | 374511 | 10110010100101001010110011000 |
| | | | | OFF | 4 | 32 | 32 | 374538 | 10110010100101111111100010000 |
| 157 | 7 | 4 | 59 | ON | 4 | 33 | 9 | 374575 | 10110010100111000111110011000 |
| | | | | OFF | 4 | 35 | 31 | 374717 | 10110010101011011101001001000 |
| 159 | 3 | 3 | 93 | ON | 7 | 39 | 30 | 385756 | 10110111111100010101101100000 |
| | | | | OFF | 7 | 43 | 14 | 385980 | 10111000000011001011001100000 |
| 159 | 3 | 7 | 17 | ON | 7 | 44 | 39 | 386064 | 10111000000101101111010000000 |
| | | | | OFF | 7 | 45 | 21 | 386106 | 10111000000110000010100100000 |
| 160 | 8 | 2 | 50 | ON | 9 | 16 | 0 | 391545 | 10111010101101000000010101000 |
| | | | | OFF | 9 | 17 | 59 | 391664 | 10111010110001010001100000000 |
| 160 | 8 | 7 | 27 | ON | 9 | 26 | 28 | 392174 | 10111011000000001100110110000 |
| | | | | OFF | 9 | 27 | 55 | 392261 | 10111011000010110110110001000 |
| 161 | 4 | 3 | 22 | ON | 10 | 51 | 35 | 397281 | 10111010111000000110111010000 |
| | | | | OFF | 10 | 52 | 30 | 397336 | 10111010111011011101110000000 |
| 162 | 2 | 3 | 33 | ON | 12 | 30 | 58 | 403243 | 11000000010001111111111110000 |
| | | | | OFF | 12 | 32 | 31 | 403336 | 11000000010101101011010000000 |
| 166 | 7 | 3 | 24 | ON | 18 | 50 | 36 | 426021 | 11001011001001001000010001000 |
| | | | | OFF | 18 | 51 | 58 | 426103 | 11001011001011101000011011000 |
| 167 | 7 | 1 | 18 | ON | 20 | 20 | 3 | 431389 | 11001101101100111100101001000 |
| | | | | OFF | 20 | 20 | 52 | 431438 | 11001101101110011100010110000 |
| 172 | 5 | 6 | 60 | ON | 4 | 8 | 55 | 459520 | 11011011000111011100000000000 |

| | | | | | | | | |
|-----|---|---|-----|----|----|----|--------|-------------------------------|
| | | | OFF | 4 | 11 | 30 | 459675 | 11011011001100001010101111000 |
| 173 | 4 | 3 | ON | 5 | 40 | 5 | 464990 | 110110110111001011100110000 |
| | | | OFF | 5 | 42 | 31 | 465136 | 11011101110010110100110000000 |
| 173 | 4 | 6 | ON | 5 | 46 | 54 | 465399 | 11011101111010110110011011000 |
| | | | OFF | 5 | 51 | 30 | 465675 | 11011110000011010001011111000 |
| 174 | 4 | 1 | ON | 7 | 8 | 47 | 470312 | 11100000100001100100010000000 |
| | | | OFF | 7 | 10 | 42 | 470427 | 1110000010100010010101111000 |
| 174 | 4 | 4 | ON | 7 | 15 | 21 | 470706 | 1110000011100110011101010000 |
| | | | OFF | 7 | 16 | 54 | 470799 | 1110000011111010010010011000 |
| 175 | 5 | 3 | ON | 8 | 48 | 10 | 476275 | 11100011000110110000100111000 |
| | | | OFF | 8 | 49 | 46 | 476371 | 11100011001001101100000111000 |
| 175 | 5 | 5 | ON | 8 | 51 | 56 | 476501 | 11100011001101101010000001000 |
| | | | OFF | 8 | 53 | 59 | 476624 | 11100011010001011010010000000 |
| 176 | 6 | 3 | ON | 10 | 29 | 7 | 482333 | 11100101111111101000101001000 |
| | | | OFF | 10 | 30 | 47 | 482433 | 11100110000010101011111101000 |
| 187 | 4 | 4 | ON | 3 | 39 | 57 | 7312 | 00000011011111001001010000000 |
| | | | OFF | 3 | 40 | 44 | 7359 | 00000011100000100101000011000 |
| 187 | 4 | 5 | ON | 3 | 41 | 36 | 7410 | 00000011100010001000101010000 |
| | | | OFF | 3 | 42 | 54 | 7488 | 00000011100100100001000000000 |
| 188 | 5 | 5 | ON | 5 | 15 | 13 | 13028 | 00000110001101100210101010000 |
| | | | OFF | 5 | 23 | 4 | 13499 | 00000110011011111101001111000 |
| 189 | 5 | 1 | ON | 6 | 22 | 33 | 17068 | 00001000001000110111111100000 |
| | | | OFF | 6 | 23 | 4 | 17099 | 00001000001001110100011111000 |
| 189 | 6 | 6 | ON | 6 | 48 | 1 | 18596 | 00001000110111100000101000000 |
| | | | OFF | 6 | 49 | 27 | 18682 | 00001000111010001000010010000 |
| 190 | 5 | 5 | ON | 8 | 21 | 5 | 24100 | 00001011100001111010100100000 |
| | | | OFF | 8 | 24 | 14 | 24369 | 00001011100111101011101101000 |
| 191 | 3 | 2 | ON | 9 | 54 | 58 | 29812 | 00001110001101110010100100000 |
| | | | OFF | 9 | 55 | 40 | 29914 | 00001110010000111001110010000 |
| 203 | 5 | 2 | ON | 4 | 45 | 34 | 97649 | 00101110100100000000101101000 |
| | | | OFF | 4 | 47 | 4 | 97739 | 00101110100110110000011111000 |
| 203 | 5 | 6 | ON | 4 | 50 | 47 | 97962 | 00101110101101100100000010000 |
| | | | OFF | 4 | 52 | 0 | 98035 | 00101110101111110010100111000 |
| 204 | 3 | 6 | ON | 6 | 22 | 24 | 103450 | 00110001010101010010011010000 |
| | | | OFF | 6 | 23 | 56 | 103550 | 00110001011000000110000110000 |
| 205 | 5 | 5 | ON | 7 | 53 | 3 | 108897 | 00110011111011010001011010000 |
| | | | OFF | 7 | 56 | 43 | 109117 | 00110100000001111111001001000 |
| 206 | 5 | 3 | ON | 9 | 25 | 34 | 114449 | 00110110100100101101001101000 |
| | | | OFF | 9 | 31 | 47 | 114822 | 00110110110000000101101100000 |
| 213 | 2 | 0 | ON | 20 | 32 | 15 | 154450 | 01001001101001011100001010000 |
| | | | OFF | 20 | 32 | 34 | 154469 | 01001001101010000001010001000 |

NOTE - OPERATION 84-5-8 CONSISTED OF FIVE MORE FRAMES ON THE FWD PAN CAMERA AND THREE MORE FRAMES ON THE AFT PAN CAMERA THAN REPORTED HERE. THESE FRAMES WERE INCLUDED IN THE A MISSION RECOVERY BUCKET.

NOTE - OPERATION 91-0-0 WAS THE CUT AND WRAP OPERATION OCCURRING AT THE A TO B TRANSFER.

NOTE - OPERATION 93-8-8 WAS THE LENS STOWING OPERATION OCCURRING AT THE TIME OF THE A MISSION RECOVERY.

NOTE - TLM DATA OBSERVED ON OPERATION 213-2-8 INDICATE THAT THE MAIN PAN CAMERA WAS OUT OF FILM PRIOR TO THE OPERATION, AND THE SL PAN CAMERA RAN OUT OF FILM AFTER 3 CYCLES OF THIS OPERATION.

NOTE - TLM DATA INDICATE NORMAL CAMERA SYSTEM PERFORMANCE FOR THE ENTIRE B MISSION.

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