

~~SECRET~~



4 PAGES
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-39

VEHICLE NO. 1635

MISSION NO. 1839-2

CAMERA NOS. 286/287

DATE 83-86-67

PAGE 1

Declassified and Released by the NRO
In Accordance with E. O. 12958
on NOV 26 1997

~~SECRET~~

SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1839-2
CAMERA NOS. 286/287

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~~SECRET~~
SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1839-2
CAMERA NOS. 286/287

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 286

SLAVE CAMERA SERIAL NO. 287

S/I -1 SERIAL NO. D183/131/132

S/I -2 SERIAL NO. D188/125/125

LAUNCH DATE 82-22-67

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 122)

PERIOD 89.857 MIN

ECCENTRICITY 0.81441

PERIGEE 98.285 NM

PERIGEE LAT. 47.979

APOGEE 281.668 NM

INCL. ANGLE 88.828

RECOVERY ORBIT NO. 177

RECOVERY DATE 83-05-67

SYSTEM NO. J-39
 VEHICLE NO. 1635
 MISSION NO. 1839-2
 CAMERA NOS. 286/287

CYCLE PERIOD DATA

| V/H RAMP LEVEL | SETTING AMPLITUDE | TIME UP RAMP-SEC | ---CALIBRATED--- | | ---IN-FLIGHT--- | | ORBIT CYCLE PERIOD-SEC NO. |
|-------------------|----------------------|---------------------|------------------|-------|-----------------|-------|-------------------------------|
| | | | MASTER | SLAVE | MASTER | SLAVE | |
| 6 | 4 | 363 | 3.922 | 3.914 | 3.920 | 3.945 | 88 |
| 6 | 4 | 1945 | 2.213 | 2.233 | 2.235 | 2.233 | 95 |
| 6 | 4 | 2084 | 2.215 | 2.236 | 2.256 | 2.252 | 111 |
| 6 | 4 | 1975 | 2.213 | 2.233 | 2.260 | 2.260 | 127 |
| 6 | 4 | 2001 | 2.213 | 2.234 | 2.252 | 2.265 | 143 |
| 6 | 4 | 1964 | 2.213 | 2.233 | 2.203 | 2.245 | 159 |

NOTE

AN * OR -g INDICATES NO DATA AVAILABLE.

A. 1039-2

B. DRY

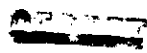
C. PERFORMANCE ESTIMATE - PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 286

| OPN NO | FRA | Q | LAT | LONG | HEIGHT | RANGE | DA | H | M | S | LTIM | S-TIM | |
|--------|-----|--------|---------|---------|--------|---------|----|----|----|----|------|-------|-------|
| 79 | 8 2 | 5 ON | 2 23 8 | 189 45W | 592368 | 613984 | 27 | 28 | 44 | 13 | 1325 | 74653 | |
| | | OFF | 2 22 28 | 189 39W | 592992 | 614544 | 27 | 28 | 44 | 25 | 1325 | 74665 | |
| 81 | 8 8 | 3 ON | 2 51 9 | 161 36W | 616488 | 638912 | 27 | 23 | 37 | 4 | 1258 | 85824 | |
| | | OFF | 2 49 41 | 161 3W | 613168 | 635488 | 27 | 23 | 37 | 28 | 1253 | 85848 | |
| 85 | 8 2 | 82 ON | 2 34 52 | 112 28E | 591488 | 612912 | 28 | 5 | 41 | 7 | 1318 | 28467 | |
| | | OFF | 2 22 15 | 114 28E | 593744 | 615328 | 28 | 5 | 44 | 14 | 1322 | 28654 | |
| 66 | 9 1 | 58 ON | 2 73 17 | 63 21E | 686896 | 711984 | 28 | 7 | 1 | 5 | 1114 | 25265 | |
| | | OFF | 2 65 45 | 75 43E | 656224 | 688144 | 28 | 7 | 3 | 13 | 12 | 6 | 25393 |
| 86 | 9 5 | 17 ON | 2 42 9 | 88 2E | 597952 | 619696 | 28 | 7 | 9 | 16 | 13 | 1 | 25756 |
| | | OFF | 2 39 33 | 88 41E | 594912 | 616544 | 28 | 7 | 9 | 55 | 13 | 4 | 25795 |
| 66 | 9 6 | 53 ON | 2 35 53 | 89 29E | 591856 | 613376 | 28 | 7 | 18 | 58 | 13 | 8 | 25858 |
| | | OFF | 2 27 42 | 98 59E | 598496 | 611968 | 28 | 7 | 12 | 52 | 1316 | 25972 | |
| 87 | 1 3 | 182 ON | 2 59 28 | 58 17E | 634888 | 658816 | 28 | 8 | 34 | 58 | 1228 | 38898 | |
| | | OFF | 2 44 9 | 64 58E | 688488 | 622328 | 28 | 8 | 38 | 43 | 1258 | 31123 | |
| 88 | 1 8 | 11 ON | 1 38 46 | 113 53W | 969952 | 1885856 | 28 | 9 | 45 | 5 | 2 | 9 | 35185 |
| | | OFF | 1 41 48 | 113 11W | 956112 | 991488 | 28 | 9 | 45 | 58 | 213 | 35158 | |
| 68 | 9 5 | 84 ON | 2 41 43 | 42 52E | 596832 | 618528 | 28 | 18 | 9 | 17 | 13 | 8 | 36557 |
| | | OFF | 2 28 46 | 45 32E | 598192 | 611648 | 28 | 18 | 12 | 38 | 1314 | 36758 | |
| 68 | 9 8 | 38 ON | 2 18 18 | 48 7E | 614928 | 637312 | 28 | 18 | 17 | 6 | 1329 | 37826 | |
| | | OFF | 2 4 18 | 48 49E | 631744 | 654752 | 28 | 18 | 18 | 35 | 1333 | 37115 | |
| 69 | 2 2 | 25 ON | 2 23 25 | 23 44E | 593312 | 614888 | 28 | 11 | 43 | 47 | 1318 | 42227 | |
| | | OFF | 2 19 29 | 24 17E | 597648 | 619376 | 28 | 11 | 44 | 45 | 1321 | 42285 | |
| 94 | 6 2 | 19 ON | 2 39 45 | 92 29W | 593824 | 615488 | 28 | 19 | 9 | 27 | 1259 | 68967 | |
| | | OFF | 2 36 44 | 91 48W | 591728 | 613232 | 28 | 19 | 18 | 12 | 13 | 2 | 69812 |
| 95 | 4 1 | 38 ON | 2 36 55 | 114 29W | 591776 | 613296 | 28 | 28 | 48 | 5 | 13 | 2 | 74485 |
| | | OFF | 2 31 1 | 113 29W | 598512 | 611984 | 28 | 28 | 41 | 33 | 13 | 8 | 74493 |
| 98 | 9 1 | 64 ON | 2 69 1 | 159 56E | 658272 | 682288 | 1 | 1 | 1 | 38 | 1141 | 3698 | |
| | | OFF | 2 59 32 | 169 13E | 628272 | 651152 | 1 | 1 | 4 | 18 | 1221 | 3858 | |
| 188 | 9 5 | 75 ON | 2 53 5 | 127 23E | 611984 | 634176 | 1 | 4 | 5 | 48 | 1235 | 14748 | |
| | | OFF | 2 41 43 | 131 12E | 594728 | 616336 | 1 | 4 | 8 | 31 | 1253 | 14911 | |
| 181 | 2 2 | 41 ON | 3 27 8 | 118 28E | 792832 | 821184 | 1 | 5 | 55 | 38 | 1349 | 21338 | |
| | | OFF | 3 35 23 | 119 56E | 844568 | 875632 | 1 | 5 | 57 | 35 | 1357 | 21455 | |
| 182 | 4 3 | 78 ON | 2 59 11 | 78 53E | 625848 | 647888 | 1 | 7 | 3 | 56 | 1219 | 25436 | |
| | | OFF | 2 48 38 | 83 51E | 682944 | 624888 | 1 | 7 | 6 | 37 | 1242 | 25597 | |
| 182 | 4 6 | 55 ON | 2 27 58 | 88 44E | 592144 | 613688 | 1 | 7 | 11 | 46 | 13 | 6 | 25986 |
| | | OFF | 2 19 34 | 89 59E | 681312 | 623184 | 1 | 7 | 13 | 51 | 1313 | 26831 | |
| 183 | 5 6 | 14 ON | 2 47 8 | 61 46E | 688144 | 621968 | 1 | 8 | 36 | 57 | 1244 | 31817 | |
| | | OFF | 2 44 43 | 62 28E | 597288 | 618928 | 1 | 8 | 37 | 31 | 1247 | 31851 | |
| 183 | 5 8 | 29 ON | 2 39 55 | 63 44E | 592728 | 614272 | 1 | 8 | 38 | 43 | 1253 | 31123 | |
| | | OFF | 2 35 14 | 64 46E | 598624 | 612896 | 1 | 8 | 39 | 53 | 1258 | 31193 | |
| 184 | 6 6 | 28 ON | 2 14 31 | 45 23E | 611456 | 633712 | 1 | 18 | 14 | 55 | 1316 | 36895 | |
| | | OFF | 2 18 17 | 45 54E | 621792 | 644432 | 1 | 18 | 15 | 58 | 1319 | 36958 | |
| 185 | 3 1 | 49 ON | 2 54 21 | 13 39E | 612328 | 634592 | 1 | 11 | 34 | 54 | 1229 | 41694 | |

| | | | | | | | | | | | | | | | | | | |
|-----|---|---|-----|-----|---|----|----|-----|-----|--------|--------|---|----|----|----|------|---|-------|
| 106 | 7 | 5 | 24 | ON | 2 | 32 | 16 | 2 | 32W | 598888 | 612272 | 1 | 13 | 18 | 28 | 13 | 8 | 47428 |
| | | | | OFF | 2 | 28 | 31 | 1 | 52W | 592352 | 613888 | 1 | 13 | 11 | 16 | 13 | 3 | 47476 |
| 106 | 7 | 8 | 31 | ON | 2 | 18 | 7 | 8 | 48E | 623296 | 645984 | 1 | 13 | 15 | 49 | 1318 | | 47749 |
| | | | | OFF | 2 | 5 | 8 | 1 | 15E | 638488 | 661664 | 1 | 13 | 17 | 3 | 1322 | | 47823 |
| 108 | 8 | 5 | 55 | ON | 3 | 12 | 11 | 42 | 8W | 713136 | 739216 | 1 | 16 | 21 | 8 | 1333 | | 58868 |
| | | | | OFF | 3 | 22 | 21 | 48 | 48W | 768968 | 797152 | 1 | 16 | 23 | 48 | 1348 | | 59828 |
| 110 | 6 | 1 | 8 | ON | 2 | 69 | 4 | 111 | 42W | 649168 | 672832 | 1 | 19 | 8 | 31 | 1133 | | 68431 |
| | | | | OFF | 2 | 67 | 41 | 189 | 48W | 644672 | 668176 | 1 | 19 | 8 | 54 | 1141 | | 68454 |
| 111 | 6 | 1 | 18 | ON | 2 | 37 | 8 | 116 | 37W | 591232 | 612728 | 1 | 28 | 38 | 38 | 1252 | | 74318 |
| | | | | OFF | 2 | 34 | 5 | 116 | 1W | 591872 | 612568 | 1 | 28 | 39 | 22 | 1255 | | 74362 |
| 113 | 5 | 1 | 18 | ON | 2 | 71 | 27 | 176 | 28E | 655328 | 679232 | 1 | 23 | 29 | 29 | 1114 | | 84569 |
| | | | | OFF | 2 | 68 | 47 | 179 | 18W | 646144 | 669696 | 1 | 23 | 38 | 15 | 1133 | | 84615 |
| 115 | 3 | 1 | 86 | ON | 2 | 72 | 48 | 128 | 29E | 658224 | 682224 | 2 | 2 | 28 | 53 | 11 | 2 | 8933 |
| | | | | OFF | 2 | 68 | 3 | 144 | 9E | 628528 | 643128 | 2 | 2 | 32 | 28 | 12 | 9 | 9148 |
| 116 | 3 | 4 | 16 | ON | 2 | 52 | 41 | 125 | 38E | 685344 | 627368 | 2 | 4 | 4 | 6 | 1226 | | 14646 |
| | | | | OFF | 2 | 58 | 8 | 126 | 31E | 681392 | 623264 | 2 | 4 | 4 | 45 | 1238 | | 14685 |
| 117 | 3 | 1 | 128 | ON | 2 | 67 | 21 | 92 | 15E | 638768 | 662848 | 2 | 5 | 38 | 9 | 1139 | | 19889 |
| | | | | OFF | 2 | 48 | 28 | 184 | 38E | 598912 | 628688 | 2 | 5 | 35 | 2 | 1233 | | 28182 |
| 118 | 8 | 2 | 48 | ON | 2 | 68 | 14 | 68 | 28E | 648888 | 664144 | 2 | 6 | 59 | 46 | 1133 | | 25186 |
| | | | | OFF | 2 | 62 | 14 | 74 | 41E | 624176 | 646912 | 2 | 7 | 1 | 23 | 12 | 8 | 25283 |
| 118 | 8 | 4 | 51 | ON | 2 | 52 | 56 | 88 | 9E | 685824 | 627848 | 2 | 7 | 3 | 47 | 1224 | | 25427 |
| | | | | OFF | 2 | 45 | 11 | 82 | 56E | 595128 | 616752 | 2 | 7 | 5 | 44 | 1237 | | 25544 |
| 118 | 8 | 7 | 48 | ON | 2 | 32 | 2 | 85 | 59E | 592168 | 613696 | 2 | 7 | 9 | 8 | 1252 | | 25748 |
| | | | | OFF | 2 | 25 | 51 | 87 | 2E | 597136 | 618848 | 2 | 7 | 18 | 32 | 1258 | | 25832 |
| 119 | 2 | 1 | 66 | ON | 2 | 58 | 58 | 54 | 28E | 615768 | 638176 | 2 | 8 | 32 | 8 | 1218 | | 38728 |
| | | | | OFF | 2 | 49 | 43 | 58 | 49E | 599936 | 621744 | 2 | 8 | 34 | 27 | 1229 | | 38867 |
| 121 | 9 | 6 | 41 | ON | 2 | 4 | 56 | 21 | 54E | 647488 | 671888 | 2 | 11 | 45 | 17 | 1312 | | 42317 |
| | | | | OFF | 3 | 1 | 48 | 22 | 39E | 673128 | 697696 | 2 | 11 | 46 | 55 | 1317 | | 42415 |
| 122 | 5 | 1 | 25 | ON | 2 | 31 | 53 | 4 | 27W | 592816 | 614368 | 2 | 13 | 8 | 28 | 1258 | | 47388 |
| | | | | OFF | 2 | 27 | 54 | 3 | 45W | 595984 | 617568 | 2 | 13 | 9 | 27 | 1254 | | 47367 |
| 124 | 7 | 4 | 28 | ON | 3 | 8 | 15 | 44 | 26W | 785264 | 731848 | 2 | 16 | 18 | 7 | 1328 | | 58687 |
| | | | | OFF | 3 | 11 | 53 | 44 | 8W | 723488 | 749952 | 2 | 16 | 19 | 1 | 1323 | | 58741 |
| 124 | 7 | 7 | 18 | ON | 3 | 19 | 24 | 43 | 2W | 764488 | 792512 | 2 | 16 | 28 | 53 | 1328 | | 58853 |
| | | | | OFF | 3 | 22 | 59 | 42 | 32W | 785376 | 814192 | 2 | 16 | 21 | 47 | 1331 | | 58987 |
| 125 | 5 | 8 | 11 | ON | 2 | 41 | 33 | 74 | 23W | 592384 | 613928 | 2 | 17 | 35 | 37 | 1238 | | 63337 |
| | | | | OFF | 2 | 39 | 44 | 73 | 56W | 591824 | 613344 | 2 | 17 | 36 | 4 | 1248 | | 63364 |
| 127 | 7 | 2 | 17 | ON | 2 | 35 | 21 | 118 | 12W | 592248 | 613776 | 2 | 28 | 36 | 51 | 1244 | | 74211 |
| | | | | OFF | 2 | 32 | 38 | 117 | 48W | 593488 | 614992 | 2 | 28 | 37 | 32 | 1246 | | 74252 |
| 132 | 4 | 1 | 77 | ON | 2 | 69 | 31 | 155 | 13E | 636816 | 668832 | 3 | 8 | 57 | 35 | 1118 | | 3455 |
| | | | | OFF | 2 | 58 | 18 | 166 | 1E | 618368 | 632576 | 3 | 1 | 8 | 34 | 12 | 4 | 3634 |
| 133 | 4 | 3 | 151 | ON | 2 | 33 | 28 | 186 | 31E | 593488 | 615872 | 3 | 5 | 36 | 19 | 1242 | | 28179 |
| | | | | OFF | 2 | 18 | 16 | 189 | 54E | 636416 | 659688 | 3 | 5 | 42 | 1 | 13 | 1 | 28521 |
| 134 | 3 | 4 | 51 | ON | 2 | 55 | 38 | 77 | 2E | 684888 | 625968 | 3 | 7 | 8 | 33 | 12 | 8 | 25233 |
| | | | | OFF | 2 | 47 | 58 | 88 | 13E | 595824 | 616656 | 3 | 7 | 2 | 29 | 1223 | | 25349 |
| 134 | 3 | 7 | 21 | ON | 2 | 31 | 29 | 84 | 14E | 594888 | 616512 | 3 | 7 | 6 | 36 | 1243 | | 25596 |
| | | | | OFF | 2 | 28 | 13 | 84 | 49E | 598144 | 619984 | 3 | 7 | 7 | 24 | 1246 | | 25644 |
| 135 | 1 | 7 | 63 | ON | 2 | 44 | 8 | 58 | 47E | 592416 | 613952 | 3 | 8 | 33 | 16 | 1228 | | 38796 |
| | | | | OFF | 2 | 34 | 33 | 61 | 3E | 592784 | 614336 | 3 | 8 | 35 | 39 | 1239 | | 38939 |
| 135 | 1 | 8 | 25 | ON | 2 | 38 | 18 | 61 | 51E | 596888 | 617688 | 3 | 8 | 36 | 42 | 1244 | | 31882 |
| | | | | OFF | 2 | 26 | 24 | 62 | 29E | 688576 | 622416 | 3 | 8 | 37 | 48 | 1247 | | 31868 |



| | | | | | | | | | | | | | | | | | | |
|-----|---|---|-----|-----|---|----|----|-----|-----|--------|--------|---|----|----|----|------|-------|-------|
| 136 | 7 | 4 | 28 | ON | 2 | 58 | 33 | 34 | 4E | 596888 | 618496 | 3 | 18 | 1 | 27 | 1217 | 36887 | |
| | | | | OFF | 2 | 47 | 24 | 35 | 11E | 594832 | 615632 | 3 | 18 | 2 | 15 | 1223 | 36135 | |
| 137 | 9 | 5 | 79 | ON | 2 | 5 | 2 | 28 | 5E | 656144 | 688864 | 3 | 11 | 42 | 34 | 13 | 2 | 42154 |
| | | | | OFF | 3 | 8 | 5 | 21 | 35E | 713152 | 739232 | 3 | 11 | 45 | 49 | 1312 | 42349 | |
| 138 | 5 | 2 | 15 | ON | 2 | 29 | 14 | 5 | 46W | 597696 | 619448 | 3 | 13 | 6 | 23 | 1243 | 47183 | |
| | | | | OFF | 2 | 26 | 52 | 5 | 23W | 688784 | 622544 | 3 | 13 | 6 | 58 | 1245 | 47218 | |
| 143 | 7 | 2 | 23 | ON | 2 | 37 | 45 | 128 | 26W | 592288 | 613824 | 3 | 28 | 33 | 15 | 1231 | 73995 | |
| | | | | OFF | 2 | 34 | 7 | 119 | 41W | 594288 | 615888 | 3 | 28 | 34 | 9 | 1235 | 74849 | |
| 146 | 6 | 3 | 47 | ON | 2 | 62 | 47 | 161 | 18E | 611472 | 633728 | 4 | 8 | 56 | 15 | 1148 | 3375 | |
| | | | | OFF | 2 | 55 | 49 | 165 | 42E | 688544 | 622384 | 4 | 8 | 58 | 3 | 12 | 8 | 3483 |
| 149 | 6 | 3 | 161 | ON | 2 | 33 | 29 | 184 | 58E | 595584 | 617232 | 4 | 5 | 32 | 58 | 1232 | 19978 | |
| | | | | OFF | 2 | 8 | 49 | 188 | 25E | 649488 | 673888 | 4 | 5 | 39 | 4 | 1252 | 28344 | |
| 152 | 6 | 1 | 7 | ON | 1 | 27 | 22 | 78 | 32W | 912192 | 945872 | 4 | 6 | 33 | 44 | 119 | 23624 | |
| | | | | OFF | 1 | 29 | 8 | 78 | 15W | 984176 | 937536 | 4 | 6 | 34 | 11 | 121 | 23651 | |
| 158 | 3 | 6 | 129 | ON | 2 | 47 | 43 | 78 | 48E | 592592 | 614128 | 4 | 6 | 59 | 12 | 1213 | 25152 | |
| | | | | OFF | 2 | 28 | 13 | 83 | 12E | 682888 | 623984 | 4 | 7 | 4 | 3 | 1236 | 25443 | |
| 153 | 2 | 1 | 37 | ON | 2 | 29 | 5 | 15 | 15E | 681456 | 623328 | 4 | 11 | 33 | 6 | 1234 | 41586 | |
| | | | | OFF | 2 | 23 | 28 | 16 | 9E | 611328 | 633584 | 4 | 11 | 34 | 31 | 1239 | 41671 | |
| 154 | 1 | 4 | 28 | ON | 2 | 26 | 9 | 6 | 51W | 686432 | 628496 | 4 | 13 | 3 | 35 | 1236 | 47815 | |
| | | | | OFF | 2 | 21 | 42 | 6 | 11W | 615184 | 637568 | 4 | 13 | 4 | 41 | 1239 | 47881 | |
| 154 | 1 | 8 | 26 | ON | 2 | 8 | 18 | 4 | 28W | 653824 | 677664 | 4 | 13 | 8 | 8 | 1258 | 47288 | |
| | | | | OFF | 2 | 3 | 55 | 3 | 58W | 678368 | 694832 | 4 | 13 | 9 | 5 | 1253 | 47345 | |
| 158 | 8 | 3 | 45 | ON | 2 | 22 | 11 | 96 | 37W | 615936 | 638352 | 4 | 19 | 3 | 33 | 1237 | 68613 | |
| | | | | OFF | 2 | 15 | 7 | 95 | 48W | 634848 | 657152 | 4 | 19 | 5 | 18 | 1242 | 68718 | |
| 159 | 3 | 8 | 16 | ON | 2 | 38 | 43 | 122 | 16W | 593472 | 615856 | 4 | 28 | 29 | 11 | 1228 | 73751 | |
| | | | | OFF | 2 | 36 | 14 | 121 | 38W | 595184 | 616832 | 4 | 28 | 29 | 48 | 1223 | 73788 | |
| 164 | 3 | 2 | 48 | ON | 2 | 67 | 5 | 118 | 13E | 611328 | 633568 | 5 | 3 | 58 | 34 | 1111 | 13834 | |
| | | | | OFF | 2 | 61 | 11 | 115 | 46E | 682888 | 623984 | 5 | 3 | 52 | 8 | 1135 | 13928 | |
| 165 | 3 | 4 | 17 | ON | 2 | 43 | 2 | 181 | 13E | 591952 | 613472 | 5 | 5 | 26 | 27 | 1211 | 19587 | |
| | | | | OFF | 2 | 48 | 17 | 181 | 56E | 593848 | 614688 | 5 | 5 | 27 | 8 | 1214 | 19628 | |
| 165 | 3 | 6 | 45 | ON | 2 | 23 | 17 | 185 | 6E | 615968 | 638384 | 5 | 5 | 31 | 21 | 1231 | 19881 | |
| | | | | OFF | 2 | 16 | 14 | 186 | 4E | 633984 | 656992 | 5 | 5 | 33 | 6 | 1237 | 19986 | |
| 166 | 3 | 1 | 7 | ON | 1 | 27 | 17 | 79 | 59W | 884416 | 917824 | 5 | 6 | 29 | 33 | 1 | 9 | 23373 |
| | | | | OFF | 1 | 29 | 4 | 79 | 42W | 876488 | 928784 | 5 | 6 | 38 | 1 | 111 | 23481 | |
| 166 | 9 | 6 | 52 | ON | 2 | 39 | 33 | 79 | 31E | 593472 | 615856 | 5 | 6 | 57 | 2 | 1215 | 25822 | |
| | | | | OFF | 2 | 31 | 37 | 81 | 9E | 681344 | 623216 | 5 | 6 | 59 | 8 | 1223 | 25148 | |
| 167 | 9 | 6 | 58 | ON | 2 | 43 | 49 | 55 | 58E | 591664 | 613168 | 5 | 8 | 25 | 41 | 12 | 9 | 38341 |
| | | | | OFF | 2 | 34 | 52 | 57 | 57E | 597456 | 619184 | 5 | 8 | 27 | 55 | 1219 | 38475 | |
| 168 | 4 | 2 | 52 | ON | 2 | 61 | 2 | 25 | 32E | 688288 | 622128 | 5 | 9 | 51 | 8 | 1133 | 35468 | |
| | | | | OFF | 2 | 53 | 19 | 29 | 55E | 593264 | 614832 | 5 | 9 | 52 | 59 | 1152 | 35579 | |
| 172 | 4 | 6 | 15 | ON | 2 | 9 | 5 | 5 | 56W | 659368 | 683488 | 5 | 13 | 3 | 24 | 1239 | 47884 | |
| | | | | OFF | 2 | 6 | 31 | 5 | 38W | 669184 | 693528 | 5 | 13 | 4 | 2 | 1241 | 47842 | |
| 173 | 8 | 3 | 98 | ON | 3 | 24 | 11 | 69 | 37W | 827296 | 857712 | 5 | 17 | 48 | 46 | 13 | 2 | 63646 |
| | | | | OFF | 3 | 45 | 6 | 65 | 19W | 957184 | 992592 | 5 | 17 | 46 | 5 | 1324 | 63965 | |
| 175 | 9 | 8 | 16 | ON | 2 | 33 | 3 | 122 | 18W | 688672 | 622512 | 5 | 28 | 25 | 55 | 1216 | 73555 | |
| | | | | OFF | 2 | 38 | 37 | 121 | 52W | 684336 | 626328 | 5 | 28 | 26 | 31 | 1219 | 73591 | |

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 287

OPN NC FRA 3 LAT LONG HEIGHT RANGE DA H M S LTIM S-TIM

| | | | | | | | | | | | | | | | | | | |
|-----|---|---|-----|-----|---|----|----|-----|-----|--------|---------|----|----|----|----|------|-------|-------|
| 79 | 8 | 2 | 6 | ON | 2 | 23 | 6 | 189 | 49W | 593872 | 614648 | 27 | 28 | 44 | 26 | 1324 | 74666 | |
| | | | | OFF | 2 | 22 | 18 | 189 | 42W | 593744 | 615328 | 27 | 28 | 44 | 38 | 1325 | 74678 | |
| 81 | 8 | 8 | 3 | ON | 2 | 51 | 9 | 161 | 39W | 614488 | 636848 | 27 | 23 | 37 | 17 | 1258 | 85837 | |
| | | | | OFF | 2 | 49 | 48 | 161 | 6W | 611312 | 633552 | 27 | 23 | 37 | 41 | 1253 | 85861 | |
| 85 | 8 | 2 | 82 | ON | 2 | 34 | 58 | 112 | 18E | 598968 | 612432 | 28 | 5 | 41 | 28 | 1318 | 28488 | |
| | | | | OFF | 2 | 22 | 13 | 114 | 25E | 594624 | 616256 | 28 | 5 | 44 | 27 | 1321 | 28667 | |
| 86 | 9 | 1 | 58 | ON | 2 | 73 | 22 | 63 | 5E | 683536 | 788496 | 28 | 7 | 1 | 18 | 1113 | 25278 | |
| | | | | OFF | 2 | 65 | 48 | 75 | 36E | 653264 | 677888 | 28 | 7 | 3 | 26 | 12 | 5 | 25486 |
| 86 | 9 | 5 | 17 | ON | 2 | 42 | 8 | 87 | 59E | 596864 | 618568 | 28 | 7 | 9 | 29 | 13 | 1 | 25769 |
| | | | | OFF | 2 | 39 | 31 | 88 | 38E | 594848 | 615648 | 28 | 7 | 18 | 8 | 13 | 4 | 25888 |
| 86 | 9 | 6 | 53 | ON | 2 | 35 | 51 | 89 | 27E | 591344 | 612848 | 28 | 7 | 11 | 3 | 13 | 8 | 25863 |
| | | | | OFF | 2 | 27 | 48 | 98 | 57E | 598888 | 612272 | 28 | 7 | 13 | 5 | 1316 | 25985 | |
| 87 | 1 | 3 | 101 | ON | 2 | 59 | 29 | 58 | 13E | 632336 | 655368 | 28 | 8 | 35 | 3 | 1227 | 38983 | |
| | | | | OFF | 2 | 44 | 8 | 64 | 47E | 599184 | 628976 | 28 | 8 | 38 | 56 | 1257 | 31136 | |
| 88 | 1 | 8 | 11 | ON | 1 | 38 | 14 | 114 | 6W | 965872 | 1881632 | 28 | 9 | 45 | 18 | 2 | 8 | 35118 |
| | | | | OFF | 1 | 41 | 18 | 113 | 24W | 952888 | 987216 | 28 | 9 | 46 | 3 | 212 | 35163 | |
| 88 | 9 | 5 | 85 | ON | 2 | 41 | 42 | 42 | 49E | 595792 | 617456 | 28 | 18 | 9 | 38 | 13 | 8 | 36578 |
| | | | | OFF | 2 | 28 | 44 | 45 | 29E | 598448 | 611928 | 28 | 18 | 12 | 43 | 1314 | 36763 | |
| 88 | 9 | 8 | 38 | ON | 2 | 18 | 18 | 48 | 3E | 617184 | 639648 | 28 | 18 | 17 | 19 | 1329 | 37839 | |
| | | | | OFF | 2 | 4 | 11 | 48 | 45E | 634624 | 657744 | 28 | 18 | 18 | 48 | 1333 | 37128 | |
| 89 | 2 | 2 | 25 | ON | 2 | 23 | 22 | 23 | 41E | 594168 | 615768 | 28 | 11 | 44 | 8 | 1318 | 42248 | |
| | | | | OFF | 2 | 19 | 28 | 24 | 14E | 598896 | 628672 | 28 | 11 | 44 | 58 | 1321 | 42298 | |
| 94 | 6 | 2 | 19 | ON | 2 | 39 | 43 | 92 | 32W | 593128 | 614688 | 28 | 19 | 9 | 48 | 1259 | 68988 | |
| | | | | OFF | 2 | 36 | 42 | 91 | 51W | 591288 | 612768 | 28 | 19 | 18 | 25 | 13 | 2 | 69825 |
| 95 | 4 | 1 | 38 | ON | 2 | 36 | 53 | 114 | 31W | 591344 | 612848 | 28 | 28 | 48 | 18 | 13 | 1 | 74418 |
| | | | | OFF | 2 | 38 | 59 | 113 | 22W | 598672 | 612144 | 28 | 28 | 41 | 46 | 13 | 8 | 74586 |
| 98 | 9 | 1 | 64 | ON | 2 | 69 | 4 | 159 | 48E | 655392 | 679296 | 1 | 1 | 1 | 51 | 1148 | 3711 | |
| | | | | OFF | 2 | 59 | 33 | 169 | 9E | 626888 | 648888 | 1 | 1 | 4 | 23 | 1228 | 3863 | |
| 188 | 9 | 5 | 75 | ON | 2 | 53 | 5 | 127 | 28E | 618112 | 632328 | 1 | 4 | 5 | 53 | 1235 | 14753 | |
| | | | | OFF | 2 | 41 | 41 | 131 | 8E | 593928 | 615528 | 1 | 4 | 8 | 44 | 1253 | 14924 | |
| 181 | 2 | 2 | 41 | ON | 3 | 26 | 51 | 118 | 21E | 797584 | 826784 | 1 | 5 | 55 | 43 | 1348 | 21343 | |
| | | | | OFF | 3 | 35 | 2 | 119 | 48E | 858272 | 881568 | 1 | 5 | 57 | 48 | 1356 | 21468 | |
| 182 | 4 | 3 | 78 | ON | 2 | 59 | 12 | 78 | 58E | 622888 | 645568 | 1 | 7 | 4 | 9 | 1219 | 25449 | |
| | | | | OFF | 2 | 48 | 37 | 83 | 48E | 681688 | 623472 | 1 | 7 | 6 | 58 | 1241 | 25618 | |
| 182 | 4 | 6 | 54 | ON | 2 | 27 | 56 | 88 | 41E | 592688 | 614248 | 1 | 7 | 11 | 59 | 13 | 6 | 25919 |
| | | | | OFF | 2 | 19 | 33 | 89 | 56E | 682768 | 624688 | 1 | 7 | 14 | 4 | 1313 | 26844 | |
| 183 | 5 | 6 | 14 | ON | 2 | 46 | 58 | 61 | 43E | 598976 | 628752 | 1 | 8 | 37 | 18 | 1243 | 31838 | |
| | | | | OFF | 2 | 44 | 41 | 62 | 26E | 596192 | 617872 | 1 | 8 | 37 | 44 | 1247 | 31864 | |
| 183 | 5 | 8 | 38 | ON | 2 | 39 | 53 | 63 | 42E | 592168 | 613688 | 1 | 8 | 38 | 56 | 1253 | 31136 | |
| | | | | OFF | 2 | 35 | 11 | 64 | 44E | 598544 | 612816 | 1 | 8 | 48 | 6 | 1258 | 31286 | |
| 184 | 6 | 6 | 26 | ON | 2 | 14 | 38 | 45 | 28E | 613472 | 635792 | 1 | 18 | 15 | 8 | 1316 | 36988 | |
| | | | | OFF | 2 | 18 | 18 | 45 | 58E | 624272 | 647888 | 1 | 18 | 16 | 11 | 1319 | 36971 | |
| 185 | 3 | 1 | 48 | ON | 2 | 54 | 21 | 13 | 36E | 618568 | 632784 | 1 | 11 | 35 | 7 | 1229 | 41787 | |
| | | | | OFF | 2 | 46 | 56 | 16 | 29E | 598448 | 628288 | 1 | 11 | 36 | 59 | 1242 | 41819 | |
| 186 | 7 | 5 | 23 | ON | 2 | 32 | 14 | 2 | 34W | 591856 | 612544 | 1 | 13 | 18 | 33 | 13 | 8 | 47433 |
| | | | | OFF | 2 | 28 | 28 | 1 | 55W | 592976 | 614528 | 1 | 13 | 11 | 29 | 13 | 3 | 47489 |
| 186 | 7 | 8 | 31 | ON | 2 | 18 | 7 | 8 | 36E | 625824 | 648688 | 1 | 13 | 16 | 2 | 1318 | 47762 | |
| | | | | OFF | 2 | 5 | 18 | 1 | 11E | 641368 | 664728 | 1 | 13 | 17 | 16 | 1321 | 47836 | |
| 188 | 8 | 5 | 55 | ON | 3 | 12 | 2 | 42 | 5W | 717712 | 743968 | 1 | 16 | 21 | 21 | 1332 | 58881 | |
| | | | | OFF | 3 | 22 | 7 | 48 | 46W | 774192 | 882592 | 1 | 16 | 23 | 53 | 1348 | 59833 | |
| 118 | 6 | 1 | 8 | ON | 2 | 69 | 6 | 111 | 49W | 646528 | 678896 | 1 | 19 | 8 | 44 | 1133 | 68444 | |

| | | | | | | | | | | | | | | | | | | |
|-----|-----|---|-----|----|-----|-----|--------|--------|-----|--------|--------|----|------|-------|-------|------|-------|-------|
| | OFF | 2 | 67 | 44 | 189 | 54W | 642888 | 665472 | 1 | 19 | 1 | 7 | 1141 | 68467 | | | | |
| 111 | 6 | 1 | 18 | ON | 2 | 36 | 57 | 116 | 48W | 591872 | 612568 | 1 | 28 | 38 | 51 | 1251 | 74331 | |
| | OFF | 2 | 34 | 2 | 116 | 3W | 591232 | 612728 | 1 | 28 | 39 | 35 | 1255 | 74375 | | | | |
| 113 | 5 | 1 | 18 | ON | 2 | 71 | 38 | 176 | 18E | 652592 | 676384 | 1 | 23 | 29 | 42 | 1114 | 84582 | |
| | OFF | 2 | 68 | 58 | 179 | 17W | 643552 | 667888 | 1 | 23 | 38 | 28 | 1133 | 84628 | | | | |
| 115 | 3 | 1 | 86 | ON | 2 | 72 | 43 | 128 | 18E | 655488 | 679312 | 2 | 2 | 29 | 6 | 11 | 2 | 8946 |
| | OFF | 2 | 68 | 3 | 144 | 7E | 618568 | 641888 | 2 | 2 | 32 | 33 | 12 | 8 | 9153 | | | |
| 116 | 3 | 4 | 16 | ON | 2 | 52 | 48 | 125 | 28E | 683984 | 625872 | 2 | 4 | 4 | 19 | 1225 | 14659 | |
| | OFF | 2 | 58 | 7 | 126 | 29E | 688176 | 622888 | 2 | 4 | 4 | 58 | 1238 | 14698 | | | | |
| 117 | 3 | 1 | 127 | ON | 2 | 67 | 22 | 92 | 9E | 636352 | 659536 | 2 | 5 | 38 | 22 | 1138 | 19822 | |
| | OFF | 2 | 48 | 27 | 184 | 27E | 597856 | 619688 | 2 | 5 | 35 | 15 | 1232 | 28115 | | | | |
| 118 | 8 | 2 | 48 | ON | 2 | 68 | 16 | 68 | 22E | 638352 | 661616 | 2 | 6 | 59 | 59 | 1133 | 25199 | |
| | OFF | 2 | 62 | 15 | 74 | 38E | 622896 | 644752 | 2 | 7 | 1 | 36 | 1159 | 25296 | | | | |
| 118 | 8 | 4 | 51 | ON | 2 | 52 | 55 | 88 | 6E | 683632 | 625584 | 2 | 7 | 4 | 8 | 1224 | 25448 | |
| | OFF | 2 | 45 | 9 | 82 | 53E | 594488 | 616816 | 2 | 7 | 5 | 57 | 1237 | 25557 | | | | |
| 118 | 8 | 7 | 48 | ON | 2 | 31 | 59 | 85 | 57E | 592688 | 614144 | 2 | 7 | 9 | 13 | 1252 | 25753 | |
| | OFF | 2 | 25 | 49 | 86 | 59E | 598248 | 628888 | 2 | 7 | 18 | 45 | 1258 | 25845 | | | | |
| 119 | 2 | 1 | 68 | ON | 2 | 58 | 58 | 54 | 25E | 613952 | 636384 | 2 | 8 | 32 | 21 | 12 | 9 | 38741 |
| | OFF | 2 | 49 | 42 | 58 | 46E | 598816 | 628592 | 2 | 8 | 34 | 48 | 1229 | 38888 | | | | |
| 121 | 9 | 6 | 48 | ON | 2 | 4 | 59 | 21 | 58E | 658784 | 674416 | 2 | 11 | 45 | 38 | 1312 | 42338 | |
| | OFF | 3 | 1 | 35 | 22 | 35E | 676896 | 781688 | 2 | 11 | 47 | 8 | 1317 | 42428 | | | | |
| 122 | 5 | 1 | 25 | ON | 2 | 31 | 51 | 4 | 29W | 593376 | 614944 | 2 | 13 | 8 | 41 | 1258 | 47321 | |
| | OFF | 2 | 27 | 52 | 3 | 48W | 596848 | 618544 | 2 | 13 | 9 | 48 | 1254 | 47388 | | | | |
| 124 | 7 | 4 | 28 | ON | 3 | 8 | 7 | 44 | 31W | 789632 | 735568 | 2 | 16 | 18 | 28 | 1328 | 58788 | |
| | OFF | 3 | 11 | 43 | 44 | 5W | 728128 | 754768 | 2 | 16 | 19 | 14 | 1322 | 58754 | | | | |
| 124 | 7 | 7 | 18 | ON | 3 | 19 | 18 | 43 | 9W | 769688 | 797888 | 2 | 16 | 21 | 6 | 1328 | 58866 | |
| | OFF | 3 | 22 | 43 | 42 | 39W | 798656 | 819688 | 2 | 16 | 22 | 8 | 1331 | 58928 | | | | |
| 125 | 5 | 8 | 11 | ON | 2 | 41 | 31 | 74 | 26W | 592888 | 613688 | 2 | 17 | 35 | 58 | 1237 | 63358 | |
| | OFF | 2 | 39 | 42 | 73 | 59W | 591688 | 613184 | 2 | 17 | 36 | 17 | 1248 | 63377 | | | | |
| 127 | 7 | 2 | 17 | ON | 2 | 35 | 19 | 118 | 14W | 592576 | 614128 | 2 | 28 | 37 | 4 | 1243 | 74224 | |
| | OFF | 2 | 32 | 36 | 117 | 43W | 594888 | 615688 | 2 | 28 | 37 | 45 | 1246 | 74265 | | | | |
| 138 | 4 | 1 | 77 | ON | 2 | 69 | 32 | 155 | 7E | 634496 | 657616 | 3 | 8 | 57 | 48 | 1118 | 3468 | |
| | OFF | 2 | 58 | 17 | 165 | 58E | 688888 | 638944 | 3 | 1 | 8 | 47 | 12 | 4 | 3647 | | | |
| 133 | 4 | 3 | 158 | ON | 2 | 33 | 18 | 186 | 28E | 594888 | 615688 | 3 | 5 | 36 | 32 | 1242 | 28192 | |
| | OFF | 2 | 18 | 18 | 189 | 58E | 639248 | 662528 | 3 | 5 | 42 | 14 | 13 | 1 | 28534 | | | |
| 134 | 3 | 4 | 58 | ON | 2 | 55 | 37 | 77 | 8E | 682784 | 624624 | 3 | 7 | 8 | 46 | 12 | 8 | 25246 |
| | OFF | 2 | 47 | 56 | 88 | 18E | 594336 | 615936 | 3 | 7 | 2 | 42 | 1223 | 25362 | | | | |
| 134 | 3 | 7 | 28 | ON | 2 | 31 | 27 | 84 | 12E | 595632 | 617296 | 3 | 7 | 6 | 49 | 1243 | 25689 | |
| | OFF | 2 | 28 | 12 | 84 | 46E | 599232 | 621824 | 3 | 7 | 7 | 37 | 1246 | 25657 | | | | |
| 135 | 1 | 7 | 63 | ON | 2 | 44 | 6 | 58 | 44E | 592848 | 613584 | 3 | 8 | 33 | 29 | 1228 | 38889 | |
| | OFF | 2 | 34 | 31 | 61 | 1E | 593296 | 614864 | 3 | 8 | 35 | 52 | 1239 | 38952 | | | | |
| 135 | 1 | 8 | 25 | ON | 2 | 38 | 16 | 61 | 48E | 596928 | 618648 | 3 | 8 | 36 | 55 | 1243 | 31815 | |
| | OFF | 2 | 26 | 23 | 62 | 27E | 681872 | 623768 | 3 | 8 | 37 | 53 | 1247 | 31873 | | | | |
| 136 | 7 | 4 | 28 | ON | 2 | 58 | 31 | 34 | 2E | 595952 | 617616 | 3 | 18 | 1 | 48 | 1217 | 36188 | |
| | OFF | 2 | 47 | 22 | 35 | 9E | 593448 | 615888 | 3 | 18 | 2 | 28 | 1222 | 36148 | | | | |
| 137 | 9 | 5 | 77 | ON | 2 | 5 | 5 | 28 | 1E | 659488 | 683536 | 3 | 11 | 42 | 47 | 13 | 2 | 42167 |
| | OFF | 3 | 7 | 56 | 21 | 38E | 717568 | 743824 | 3 | 11 | 46 | 2 | 1311 | 42362 | | | | |
| 138 | 5 | 2 | 14 | ON | 2 | 29 | 13 | 5 | 49W | 598768 | 628544 | 3 | 13 | 6 | 36 | 1243 | 47196 | |
| | OFF | 2 | 26 | 58 | 5 | 26W | 682888 | 623888 | 3 | 13 | 7 | 11 | 1245 | 47231 | | | | |
| 143 | 7 | 2 | 23 | ON | 2 | 37 | 43 | 128 | 29W | 592688 | 614248 | 3 | 28 | 33 | 28 | 1231 | 74888 | |
| | OFF | 2 | 34 | 5 | 119 | 43W | 594968 | 616592 | 3 | 28 | 34 | 22 | 1235 | 74862 | | | | |

| | | | | | | | | | | | | | | | | | | |
|-----|---|---|-----|-----|---|----|----|-----|-----|--------|--------|---|----|----|----|------|-------|-------|
| 146 | 6 | 3 | 46 | ON | 2 | 62 | 47 | 161 | 7E | 689928 | 632112 | 4 | 8 | 56 | 28 | 1148 | 3388 | |
| | | | | OFF | 2 | 55 | 48 | 165 | 48E | 599488 | 621296 | 4 | 8 | 58 | 16 | 12 | 8 | 3496 |
| 149 | 6 | 3 | 168 | ON | 2 | 33 | 27 | 184 | 48E | 596464 | 618168 | 4 | 5 | 33 | 11 | 1232 | 19991 | |
| | | | | OFF | 2 | 8 | 52 | 188 | 21E | 652512 | 676384 | 4 | 5 | 39 | 17 | 1252 | 28357 | |
| 150 | 6 | 1 | 7 | ON | 1 | 26 | 56 | 78 | 41W | 988224 | 941744 | 4 | 6 | 33 | 57 | 118 | 23637 | |
| | | | | OFF | 1 | 28 | 41 | 78 | 24W | 988288 | 933424 | 4 | 6 | 34 | 24 | 120 | 23664 | |
| 150 | 3 | 6 | 128 | ON | 2 | 47 | 41 | 78 | 37E | 592248 | 613776 | 4 | 6 | 59 | 25 | 1213 | 25165 | |
| | | | | OFF | 2 | 28 | 12 | 83 | 8E | 683312 | 625248 | 4 | 7 | 4 | 16 | 1236 | 25456 | |
| 153 | 2 | 1 | 37 | ON | 2 | 29 | 3 | 15 | 12E | 682752 | 624672 | 4 | 11 | 33 | 19 | 1233 | 41599 | |
| | | | | OFF | 2 | 23 | 28 | 16 | 6E | 613168 | 635488 | 4 | 11 | 34 | 44 | 1238 | 41684 | |
| 154 | 1 | 4 | 28 | ON | 2 | 26 | 8 | 6 | 54W | 688848 | 638176 | 4 | 13 | 3 | 48 | 1235 | 47828 | |
| | | | | OFF | 2 | 21 | 42 | 6 | 15W | 617288 | 639664 | 4 | 13 | 4 | 54 | 1239 | 47894 | |
| 154 | 1 | 8 | 26 | ON | 2 | 8 | 22 | 4 | 33W | 657872 | 681848 | 4 | 13 | 8 | 13 | 1249 | 47293 | |
| | | | | OFF | 2 | 4 | 8 | 4 | 2W | 674816 | 698624 | 4 | 13 | 9 | 18 | 1252 | 47358 | |
| 158 | 8 | 3 | 45 | ON | 2 | 22 | 11 | 96 | 41W | 617968 | 648464 | 4 | 19 | 3 | 46 | 1236 | 68626 | |
| | | | | OFF | 2 | 15 | 9 | 95 | 44W | 636728 | 659928 | 4 | 19 | 5 | 31 | 1242 | 68731 | |
| 159 | 3 | 8 | 16 | ON | 2 | 38 | 41 | 122 | 13W | 594832 | 615632 | 4 | 28 | 29 | 24 | 1228 | 73764 | |
| | | | | OFF | 2 | 36 | 12 | 121 | 48W | 595928 | 617584 | 4 | 28 | 38 | 1 | 1223 | 73881 | |
| 164 | 3 | 2 | 48 | ON | 2 | 67 | 5 | 118 | 18E | 689856 | 632848 | 5 | 3 | 58 | 47 | 1111 | 13847 | |
| | | | | OFF | 2 | 61 | 18 | 115 | 44E | 688896 | 622752 | 5 | 3 | 52 | 21 | 1135 | 13941 | |
| 165 | 3 | 4 | 17 | ON | 2 | 43 | 8 | 181 | 11E | 592248 | 613768 | 5 | 5 | 26 | 48 | 1211 | 19688 | |
| | | | | OFF | 2 | 48 | 15 | 181 | 53E | 593552 | 615136 | 5 | 5 | 27 | 21 | 1214 | 19641 | |
| 165 | 3 | 6 | 45 | ON | 2 | 23 | 18 | 185 | 3E | 617968 | 648464 | 5 | 5 | 31 | 34 | 1231 | 19894 | |
| | | | | OFF | 2 | 16 | 15 | 186 | 8E | 636568 | 659768 | 5 | 5 | 33 | 19 | 1237 | 19999 | |
| 166 | 3 | 1 | 7 | ON | 1 | 26 | 53 | 88 | 8W | 888496 | 912968 | 5 | 6 | 29 | 46 | 1 | 8 | 23386 |
| | | | | OFF | 1 | 28 | 48 | 79 | 51W | 872512 | 984656 | 5 | 6 | 38 | 14 | 118 | 23414 | |
| 166 | 9 | 6 | 51 | ON | 2 | 39 | 31 | 79 | 29E | 594864 | 615664 | 5 | 6 | 57 | 15 | 1214 | 25835 | |
| | | | | OFF | 2 | 31 | 35 | 81 | 7E | 682688 | 624528 | 5 | 6 | 59 | 13 | 1223 | 25153 | |
| 167 | 9 | 6 | 58 | ON | 2 | 43 | 46 | 55 | 48E | 591936 | 613456 | 5 | 8 | 25 | 54 | 12 | 8 | 38354 |
| | | | | OFF | 2 | 34 | 51 | 57 | 55E | 598448 | 628288 | 5 | 8 | 28 | 8 | 1219 | 38488 | |
| 168 | 4 | 2 | 52 | ON | 2 | 61 | 1 | 25 | 38E | 599264 | 621856 | 5 | 9 | 51 | 13 | 1133 | 35473 | |
| | | | | OFF | 2 | 53 | 17 | 29 | 54E | 592888 | 614352 | 5 | 9 | 53 | 12 | 1152 | 35592 | |
| 178 | 4 | 6 | 16 | ON | 2 | 9 | 18 | 6 | 1W | 662672 | 686848 | 5 | 13 | 3 | 37 | 1239 | 47817 | |
| | | | | OFF | 2 | 6 | 36 | 5 | 43W | 672624 | 697168 | 5 | 13 | 4 | 15 | 1241 | 47855 | |
| 173 | 8 | 3 | 188 | ON | 3 | 23 | 52 | 69 | 45W | 832688 | 863232 | 5 | 17 | 48 | 59 | 13 | 1 | 63659 |
| | | | | OFF | 3 | 44 | 35 | 65 | 34W | 962496 | 998128 | 5 | 17 | 46 | 18 | 1323 | 63978 | |
| 175 | 9 | 8 | 16 | ON | 2 | 33 | 2 | 122 | 21W | 681968 | 623872 | 5 | 28 | 26 | 8 | 1216 | 73568 | |
| | | | | OFF | 2 | 38 | 36 | 121 | 54W | 685888 | 627848 | 5 | 28 | 26 | 44 | 1218 | 73684 | |

PHOTOGRAPHIC SUMMARY

| FWD PAN CAMERA NO 286 | | 8.225 SLIT W/23A | | FILTER | | 3484 FILM | | | | | | |
|-----------------------|-----|------------------|----|--------|-------|-----------|------|------|-------|-------|-------|-------|
| OPN NO | FRA | FEET | ET | S-EL | S-DIR | EV | FULL | INT | PRI | | | |
| 79 | 8 | 2 | 5 | 13.2 | ON | 296 | 53.8 | 42.4 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 296 | 54.4 | 43.1 | 12.86 | 12.42 | 11.82 | 11.22 |
| 81 | 8 | 8 | 3 | 7.9 | ON | 158 | 29.9 | 27.2 | 11.16 | 12.29 | 11.69 | 11.89 |
| | | | | | OFF | 158 | 31.3 | 27.6 | 11.16 | 12.31 | 11.71 | 11.11 |
| 85 | 8 | 2 | 82 | 216.9 | ON | 296 | 44.8 | 32.7 | 12.86 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 296 | 55.1 | 42.8 | 12.86 | 12.42 | 11.82 | 11.22 |
| 86 | 9 | 1 | 58 | 132.2 | ON | 258 | 8.8 | 23.7 | 11.86 | 11.18 | 18.58 | 9.98 |
| | | | | | OFF | 275 | 16.8 | 23.8 | 11.95 | 11.87 | 11.27 | 18.67 |

| | | | | | | | | | | | | |
|-----|---|---|-----|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 86 | 9 | 5 | 17 | 45.8 | ON | 296 | 38.4 | 29.1 | 12.86 | 12.38 | 11.78 | 11.18 |
| | | | | | OFF | 296 | 48.7 | 38.2 | 12.86 | 12.39 | 11.79 | 11.19 |
| 86 | 9 | 6 | 53 | 148.2 | ON | 296 | 44.8 | 32.8 | 12.86 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 296 | 58.9 | 37.1 | 12.86 | 12.42 | 11.82 | 11.22 |
| 87 | 1 | 3 | 182 | 269.8 | ON | 287 | 22.3 | 24.4 | 12.82 | 12.14 | 11.54 | 10.94 |
| | | | | | OFF | 296 | 36.7 | 28.2 | 12.86 | 12.36 | 11.76 | 11.16 |
| 88 | 1 | 8 | 11 | 29.1 | ON | 165 | -49.6 | 35.7 | 11.22 | 8.8 | 8.8 | 8.8 |
| | | | | | OFF | 167 | -47.2 | 33.8 | 11.24 | 8.8 | 8.8 | 8.8 |
| 88 | 9 | 5 | 84 | 222.2 | ON | 296 | 38.9 | 29.8 | 12.86 | 12.38 | 11.78 | 11.18 |
| | | | | | OFF | 296 | 58.1 | 35.9 | 12.86 | 12.42 | 11.82 | 11.22 |
| 88 | 9 | 8 | 38 | 188.5 | ON | 295 | 63.5 | 57.2 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 298 | 66.3 | 68.8 | 12.83 | 12.42 | 11.82 | 11.22 |
| 89 | 2 | 2 | 25 | 66.1 | ON | 296 | 54.5 | 48.8 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 296 | 57.5 | 44.8 | 12.86 | 12.42 | 11.82 | 11.22 |
| 94 | 6 | 2 | 19 | 58.3 | ON | 296 | 41.8 | 28.6 | 12.86 | 12.39 | 11.79 | 11.19 |
| | | | | | OFF | 296 | 43.7 | 38.8 | 12.86 | 12.41 | 11.81 | 11.21 |
| 95 | 4 | 1 | 38 | 188.5 | ON | 295 | 43.6 | 29.7 | 12.86 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 295 | 48.8 | 33.8 | 12.86 | 12.42 | 11.82 | 11.22 |
| 98 | 9 | 1 | 64 | 169.3 | ON | 272 | 3.4 | 22.8 | 11.94 | 10.53 | 9.93 | 9.33 |
| | | | | | OFF | 289 | 22.5 | 22.6 | 12.83 | 12.15 | 11.55 | 10.95 |
| 102 | 9 | 5 | 75 | 198.4 | ON | 294 | 28.9 | 23.4 | 12.85 | 12.28 | 11.68 | 11.08 |
| | | | | | OFF | 295 | 39.5 | 26.7 | 12.86 | 12.38 | 11.78 | 11.18 |
| 101 | 2 | 2 | 41 | 188.4 | ON | 225 | 68.8 | 136.7 | 11.67 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 212 | 53.4 | 144.8 | 11.58 | 12.42 | 11.82 | 11.22 |
| 102 | 4 | 3 | 76 | 185.1 | ON | 291 | 23.8 | 22.8 | 12.84 | 12.16 | 11.56 | 10.96 |
| | | | | | OFF | 295 | 33.2 | 24.2 | 12.86 | 12.33 | 11.73 | 11.13 |
| 102 | 4 | 6 | 55 | 145.5 | ON | 295 | 51.9 | 33.5 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 295 | 58.7 | 41.8 | 12.86 | 12.42 | 11.82 | 11.22 |
| 103 | 5 | 6 | 14 | 37.8 | ON | 295 | 34.8 | 24.5 | 12.86 | 12.35 | 11.75 | 11.15 |
| | | | | | OFF | 295 | 36.9 | 25.1 | 12.86 | 12.37 | 11.77 | 11.17 |
| 103 | 5 | 8 | 29 | 76.7 | ON | 295 | 41.3 | 26.9 | 12.86 | 12.48 | 11.88 | 11.28 |
| | | | | | OFF | 295 | 45.6 | 29.8 | 12.86 | 12.41 | 11.81 | 11.21 |
| 104 | 6 | 6 | 28 | 74.1 | ON | 294 | 62.6 | 46.9 | 12.85 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 294 | 65.4 | 53.6 | 12.85 | 12.42 | 11.82 | 11.22 |
| 105 | 3 | 1 | 49 | 129.6 | ON | 294 | 27.8 | 22.3 | 12.85 | 12.26 | 11.66 | 11.06 |
| | | | | | OFF | 295 | 34.9 | 24.1 | 12.86 | 12.35 | 11.75 | 11.15 |
| 106 | 7 | 5 | 24 | 63.5 | ON | 295 | 48.4 | 29.9 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 295 | 51.7 | 32.3 | 12.86 | 12.42 | 11.82 | 11.22 |
| 106 | 7 | 8 | 31 | 82.8 | ON | 293 | 65.7 | 53.5 | 12.85 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 285 | 68.4 | 63.7 | 12.81 | 12.42 | 11.82 | 11.22 |
| 108 | 8 | 5 | 55 | 145.5 | ON | 252 | 69.6 | 111.1 | 11.83 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 231 | 64.1 | 131.8 | 11.78 | 12.42 | 11.82 | 11.22 |
| 113 | 6 | 1 | 6 | 21.2 | ON | 271 | 13.8 | 19.9 | 11.93 | 11.67 | 11.87 | 10.47 |
| | | | | | OFF | 274 | 14.5 | 19.9 | 11.95 | 11.78 | 11.18 | 10.58 |
| 111 | 6 | 1 | 18 | 47.6 | ON | 295 | 44.4 | 26.5 | 12.86 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 295 | 47.1 | 27.9 | 12.86 | 12.42 | 11.82 | 11.22 |
| 113 | 5 | 1 | 18 | 47.6 | ON | 267 | 18.4 | 19.4 | 11.91 | 11.44 | 10.84 | 10.24 |
| | | | | | OFF | 273 | 13.3 | 19.4 | 11.94 | 11.78 | 11.18 | 10.58 |
| 115 | 3 | 1 | 86 | 227.5 | ON | 264 | 9.8 | 19.1 | 11.98 | 11.38 | 10.78 | 10.18 |
| | | | | | OFF | 289 | 22.4 | 19.8 | 12.83 | 12.14 | 11.54 | 10.94 |
| 116 | 3 | 4 | 16 | 42.3 | ON | 294 | 29.7 | 28.8 | 12.85 | 12.29 | 11.69 | 11.09 |



| | | | | | | | | | | | | |
|-----|---|---|-----|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 117 | 3 | 1 | 128 | 338.6 | OFF | 295 | 32.2 | 21.3 | 12.85 | 12.32 | 11.72 | 11.12 |
| | | | | | ON | 277 | 14.9 | 18.8 | 11.97 | 11.81 | 11.21 | 18.61 |
| | | | | | OFF | 295 | 33.9 | 21.6 | 12.86 | 12.34 | 11.74 | 11.14 |
| 118 | 8 | 2 | 48 | 185.8 | ON | 276 | 14.8 | 18.6 | 11.96 | 11.75 | 11.15 | 18.55 |
| | | | | | OFF | 287 | 28.3 | 19.8 | 12.82 | 12.87 | 11.47 | 18.87 |
| 118 | 8 | 4 | 51 | 134.9 | ON | 294 | 29.6 | 28.4 | 12.85 | 12.29 | 11.69 | 11.89 |
| | | | | | OFF | 295 | 37.1 | 22.2 | 12.86 | 12.37 | 11.77 | 11.17 |
| 118 | 8 | 7 | 48 | 185.8 | ON | 295 | 49.3 | 27.5 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 295 | 54.8 | 31.5 | 12.86 | 12.42 | 11.82 | 11.22 |
| 119 | 2 | 1 | 68 | 158.7 | ON | 293 | 23.7 | 19.3 | 12.84 | 12.18 | 11.58 | 18.98 |
| | | | | | OFF | 295 | 32.7 | 28.9 | 12.86 | 12.33 | 11.73 | 11.13 |
| 121 | 9 | 6 | 41 | 188.4 | ON | 284 | 78.5 | 61.1 | 12.88 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 272 | 72.7 | 88.2 | 11.94 | 12.42 | 11.82 | 11.22 |
| 122 | 5 | 1 | 25 | 66.1 | ON | 295 | 49.7 | 26.7 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 294 | 53.3 | 29.1 | 12.85 | 12.42 | 11.82 | 11.22 |
| 124 | 7 | 4 | 28 | 52.9 | ON | 258 | 73.1 | 182.2 | 11.87 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 251 | 71.9 | 113.3 | 11.82 | 12.42 | 11.82 | 11.22 |
| 124 | 7 | 7 | 18 | 47.6 | ON | 234 | 67.8 | 131.8 | 11.73 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 228 | 65.3 | 137.8 | 11.69 | 12.42 | 11.82 | 11.22 |
| 125 | 5 | 8 | 11 | 29.1 | ON | 295 | 48.8 | 22.8 | 12.85 | 12.39 | 11.79 | 11.19 |
| | | | | | OFF | 295 | 42.5 | 22.7 | 12.85 | 12.48 | 11.88 | 11.28 |
| 127 | 7 | 2 | 17 | 45.8 | ON | 295 | 46.8 | 24.8 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 295 | 49.3 | 25.2 | 12.86 | 12.42 | 11.82 | 11.22 |
| 132 | 4 | 1 | 77 | 283.7 | ON | 276 | 12.8 | 16.7 | 11.96 | 11.65 | 11.85 | 18.45 |
| | | | | | OFF | 293 | 24.5 | 17.5 | 12.85 | 12.28 | 11.68 | 11.88 |
| 133 | 4 | 3 | 151 | 399.4 | ON | 295 | 48.9 | 23.6 | 12.85 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 289 | 68.7 | 46.1 | 12.83 | 12.42 | 11.82 | 11.22 |
| 134 | 3 | 4 | 51 | 134.9 | ON | 294 | 27.3 | 17.2 | 12.85 | 12.25 | 11.65 | 11.85 |
| | | | | | OFF | 294 | 34.9 | 18.6 | 12.85 | 12.35 | 11.75 | 11.15 |
| 134 | 3 | 7 | 21 | 55.5 | ON | 295 | 58.7 | 24.3 | 12.85 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 294 | 53.7 | 26.1 | 12.85 | 12.42 | 11.82 | 11.22 |
| 135 | 1 | 7 | 63 | 166.6 | ON | 295 | 38.7 | 19.3 | 12.85 | 12.38 | 11.78 | 11.18 |
| | | | | | OFF | 295 | 47.9 | 22.6 | 12.86 | 12.42 | 11.82 | 11.22 |
| 135 | 1 | 8 | 25 | 66.1 | ON | 294 | 51.9 | 24.7 | 12.85 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 294 | 55.4 | 27.8 | 12.85 | 12.42 | 11.82 | 11.22 |
| 136 | 7 | 4 | 28 | 52.9 | ON | 294 | 32.4 | 17.7 | 12.85 | 12.32 | 11.72 | 11.12 |
| | | | | | OFF | 294 | 35.5 | 18.4 | 12.85 | 12.35 | 11.75 | 11.15 |
| 137 | 9 | 5 | 79 | 289.8 | ON | 279 | 72.5 | 56.8 | 11.97 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 253 | 75.8 | 183.3 | 11.84 | 12.42 | 11.82 | 11.22 |
| 138 | 5 | 2 | 15 | 39.7 | ON | 294 | 53.8 | 24.5 | 12.85 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 294 | 55.2 | 25.9 | 12.85 | 12.42 | 11.82 | 11.22 |
| 143 | 7 | 2 | 23 | 68.8 | ON | 295 | 45.2 | 19.7 | 12.85 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 295 | 48.7 | 21.8 | 12.85 | 12.42 | 11.82 | 11.22 |
| 146 | 6 | 3 | 47 | 124.3 | ON | 293 | 28.2 | 14.5 | 12.85 | 12.87 | 11.47 | 18.87 |
| | | | | | OFF | 294 | 27.4 | 15.2 | 12.85 | 12.25 | 11.65 | 11.85 |
| 149 | 6 | 3 | 161 | 425.8 | ON | 294 | 49.5 | 28.8 | 12.85 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 281 | 71.4 | 43.8 | 11.99 | 12.42 | 11.82 | 11.22 |
| 152 | 6 | 1 | 7 | 18.5 | ON | 163 | -63.8 | 29.9 | 11.28 | 8.8 | 8.8 | 8.8 |
| | | | | | OFF | 164 | -62.2 | 28.2 | 11.21 | 8.8 | 8.8 | 8.8 |
| 152 | 3 | 6 | 129 | 341.2 | ON | 294 | 35.6 | 15.7 | 12.85 | 12.35 | 11.75 | 11.15 |
| | | | | | OFF | 294 | 54.6 | 22.2 | 12.85 | 12.42 | 11.82 | 11.22 |

| | | | | | | | | | | | | |
|-----|---|---|----|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 153 | 2 | 1 | 37 | 97.9 | ON | 294 | 53.9 | 21.8 | 12.85 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 294 | 59.3 | 24.4 | 12.85 | 12.42 | 11.82 | 11.22 |
| 154 | 1 | 4 | 28 | 74.1 | ON | 294 | 56.7 | 22.3 | 12.85 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 293 | 68.9 | 25.3 | 12.85 | 12.42 | 11.82 | 11.22 |
| 154 | 1 | 8 | 26 | 68.8 | ON | 279 | 72.3 | 43.1 | 11.97 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 278 | 75.2 | 54.7 | 11.93 | 12.42 | 11.82 | 11.22 |
| 158 | 8 | 3 | 45 | 119.8 | ON | 295 | 68.7 | 23.8 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 294 | 67.1 | 38.5 | 12.85 | 12.42 | 11.82 | 11.22 |
| 159 | 3 | 8 | 16 | 42.3 | ON | 296 | 44.8 | 16.8 | 12.86 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 296 | 47.2 | 16.8 | 12.86 | 12.42 | 11.82 | 11.22 |
| 164 | 3 | 2 | 48 | 185.8 | ON | 287 | 15.8 | 11.4 | 12.82 | 11.86 | 11.26 | 18.66 |
| | | | | | OFF | 294 | 22.1 | 11.6 | 12.85 | 12.13 | 11.53 | 18.93 |
| 165 | 3 | 4 | 17 | 45.8 | ON | 296 | 48.6 | 13.8 | 12.86 | 12.39 | 11.79 | 11.19 |
| | | | | | OFF | 296 | 43.4 | 14.4 | 12.86 | 12.41 | 11.81 | 11.21 |
| 165 | 3 | 6 | 45 | 119.8 | ON | 295 | 68.8 | 21.8 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 294 | 66.6 | 26.8 | 12.85 | 12.42 | 11.82 | 11.22 |
| 166 | 3 | 1 | 7 | 18.5 | ON | 163 | -64.9 | 24.8 | 11.28 | 8.8 | 8.8 | 8.8 |
| | | | | | OFF | 164 | -63.2 | 23.3 | 11.22 | 8.8 | 8.8 | 8.8 |
| 166 | 9 | 6 | 52 | 137.5 | ON | 296 | 44.2 | 14.3 | 12.86 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 295 | 52.8 | 16.7 | 12.86 | 12.42 | 11.82 | 11.22 |
| 167 | 9 | 6 | 58 | 153.4 | ON | 296 | 39.9 | 13.2 | 12.86 | 12.39 | 11.79 | 11.19 |
| | | | | | OFF | 296 | 48.8 | 15.4 | 12.86 | 12.42 | 11.82 | 11.22 |
| 168 | 4 | 2 | 52 | 137.5 | ON | 294 | 22.3 | 11.8 | 12.85 | 12.14 | 11.54 | 18.94 |
| | | | | | OFF | 295 | 38.3 | 11.6 | 12.86 | 12.38 | 11.78 | 11.18 |
| 173 | 4 | 6 | 15 | 39.7 | ON | 281 | 73.2 | 35.8 | 11.99 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 277 | 75.3 | 48.7 | 11.96 | 12.42 | 11.82 | 11.22 |
| 173 | 8 | 3 | 98 | 259.2 | ON | 217 | 68.2 | 154.8 | 11.61 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 185 | 47.9 | 166.2 | 11.38 | 12.42 | 11.82 | 11.22 |
| 175 | 9 | 8 | 16 | 42.3 | ON | 295 | 58.8 | 14.1 | 12.86 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 295 | 53.3 | 14.9 | 12.86 | 12.42 | 11.82 | 11.22 |

PHOTOGRAPHIC SUMMARY

| AFT PAN CAMERA NO 207 8.1758 SLIT W/21 FILTER 3494 FILM | | | | | | | | | | | | |
|---|-----|------|-----|-------|-------|-----|-------|------|-------|-------|-------|-------|
| OPN NO | FRA | FEET | ET | S-EL | S-DIR | EV | FULL | INT | PRI | | | |
| 79 | 8 | 2 | 6 | 15.9 | ON | 388 | 53.9 | 42.3 | 12.42 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 388 | 54.5 | 43.8 | 12.42 | 12.75 | 12.15 | 11.55 |
| 81 | 8 | 8 | 3 | 7.9 | ON | 285 | 38.8 | 26.7 | 11.54 | 12.62 | 12.82 | 11.42 |
| | | | | | OFF | 285 | 31.3 | 27.1 | 11.54 | 12.64 | 12.84 | 11.44 |
| 85 | 8 | 2 | 82 | 216.9 | ON | 388 | 44.8 | 32.5 | 12.42 | 12.74 | 12.14 | 11.54 |
| | | | | | OFF | 388 | 55.1 | 41.9 | 12.42 | 12.75 | 12.15 | 11.55 |
| 86 | 9 | 1 | 58 | 132.2 | ON | 332 | 7.9 | 21.6 | 12.23 | 11.58 | 18.98 | 18.38 |
| | | | | | OFF | 354 | 16.8 | 22.8 | 12.32 | 12.28 | 11.68 | 11.88 |
| 86 | 9 | 5 | 17 | 45.8 | ON | 388 | 38.4 | 28.9 | 12.42 | 12.71 | 12.11 | 11.51 |
| | | | | | OFF | 388 | 48.8 | 38.8 | 12.42 | 12.72 | 12.12 | 11.52 |
| 86 | 9 | 6 | 53 | 148.2 | ON | 388 | 44.8 | 31.8 | 12.42 | 12.74 | 12.14 | 11.54 |
| | | | | | OFF | 388 | 58.9 | 37.8 | 12.42 | 12.75 | 12.15 | 11.55 |
| 87 | 1 | 3 | 181 | 267.1 | ON | 369 | 22.3 | 23.8 | 12.38 | 12.47 | 11.87 | 11.27 |
| | | | | | OFF | 379 | 36.7 | 28.8 | 12.42 | 12.69 | 12.89 | 11.49 |
| 88 | 1 | 8 | 11 | 29.1 | ON | 214 | -58.1 | 35.7 | 11.68 | 8.8 | 8.8 | 8.8 |
| | | | | | OFF | 217 | -47.7 | 33.7 | 11.61 | 8.8 | 8.8 | 8.8 |

| | | | | | | | | | | | | |
|-----|---|---|-----|-------|-----|-----|------|-------|-------|-------|-------|-------|
| 88 | 9 | 5 | 85 | 224.8 | ON | 388 | 38.9 | 28.7 | 12.42 | 12.71 | 12.11 | 11.51 |
| | | | | | OFF | 388 | 58.2 | 35.8 | 12.42 | 12.75 | 12.15 | 11.55 |
| 88 | 9 | 8 | 38 | 188.5 | ON | 378 | 63.5 | 57.1 | 12.41 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 373 | 66.3 | 68.6 | 12.48 | 12.75 | 12.15 | 11.55 |
| 89 | 2 | 2 | 25 | 66.1 | ON | 388 | 54.6 | 39.9 | 12.42 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 379 | 57.6 | 43.9 | 12.42 | 12.75 | 12.15 | 11.55 |
| 94 | 6 | 2 | 19 | 58.3 | ON | 388 | 41.1 | 28.4 | 12.42 | 12.72 | 12.12 | 11.52 |
| | | | | | OFF | 388 | 43.8 | 29.8 | 12.42 | 12.74 | 12.14 | 11.54 |
| 95 | 4 | 1 | 38 | 188.5 | ON | 376 | 43.6 | 29.5 | 12.41 | 12.74 | 12.14 | 11.54 |
| | | | | | OFF | 376 | 48.8 | 32.8 | 12.41 | 12.75 | 12.15 | 11.55 |
| 98 | 9 | 1 | 64 | 169.3 | ON | 347 | 12.8 | 28.5 | 12.29 | 11.99 | 11.39 | 10.79 |
| | | | | | OFF | 378 | 22.5 | 22.8 | 12.38 | 12.48 | 11.88 | 11.28 |
| 188 | 9 | 5 | 75 | 198.4 | ON | 374 | 28.9 | 23.8 | 12.48 | 12.61 | 12.81 | 11.41 |
| | | | | | OFF | 376 | 39.6 | 26.5 | 12.41 | 12.71 | 12.11 | 11.51 |
| 181 | 2 | 2 | 41 | 188.4 | ON | 289 | 68.2 | 136.5 | 12.83 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 271 | 53.8 | 144.8 | 11.94 | 12.75 | 12.15 | 11.55 |
| 182 | 4 | 3 | 78 | 185.1 | ON | 372 | 23.8 | 21.4 | 12.39 | 12.49 | 11.89 | 11.29 |
| | | | | | OFF | 375 | 33.2 | 23.9 | 12.48 | 12.66 | 12.86 | 11.46 |
| 182 | 4 | 6 | 54 | 142.8 | ON | 376 | 51.9 | 33.4 | 12.41 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 375 | 58.8 | 48.9 | 12.48 | 12.75 | 12.15 | 11.55 |
| 183 | 5 | 6 | 14 | 37.8 | ON | 376 | 34.8 | 24.2 | 12.48 | 12.68 | 12.88 | 11.48 |
| | | | | | OFF | 376 | 36.9 | 24.9 | 12.41 | 12.78 | 12.18 | 11.58 |
| 183 | 5 | 8 | 38 | 79.3 | ON | 376 | 41.4 | 26.7 | 12.41 | 12.73 | 12.13 | 11.53 |
| | | | | | OFF | 376 | 45.6 | 28.8 | 12.41 | 12.74 | 12.14 | 11.54 |
| 184 | 6 | 6 | 26 | 68.8 | ON | 374 | 62.7 | 46.7 | 12.48 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 374 | 65.4 | 53.5 | 12.48 | 12.75 | 12.15 | 11.55 |
| 185 | 3 | 1 | 48 | 127.8 | ON | 374 | 27.8 | 21.9 | 12.48 | 12.59 | 11.99 | 11.39 |
| | | | | | OFF | 376 | 34.9 | 23.8 | 12.48 | 12.68 | 12.88 | 11.48 |
| 186 | 7 | 5 | 23 | 68.8 | ON | 376 | 48.5 | 29.8 | 12.41 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 376 | 51.7 | 32.1 | 12.41 | 12.75 | 12.15 | 11.55 |
| 186 | 7 | 8 | 31 | 82.8 | ON | 373 | 65.7 | 53.3 | 12.48 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 365 | 68.4 | 63.5 | 12.36 | 12.75 | 12.15 | 11.55 |
| 188 | 8 | 5 | 55 | 145.5 | ON | 324 | 69.7 | 118.8 | 12.19 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 297 | 64.3 | 131.6 | 12.87 | 12.75 | 12.15 | 11.55 |
| 118 | 6 | 1 | 8 | 21.2 | ON | 348 | 13.8 | 18.6 | 12.29 | 12.88 | 11.48 | 18.88 |
| | | | | | OFF | 352 | 14.4 | 18.8 | 12.31 | 12.18 | 11.58 | 18.98 |
| 111 | 6 | 1 | 18 | 47.6 | ON | 378 | 44.5 | 26.3 | 12.41 | 12.74 | 12.14 | 11.54 |
| | | | | | OFF | 378 | 47.1 | 27.8 | 12.41 | 12.75 | 12.15 | 11.55 |
| 113 | 5 | 1 | 18 | 47.6 | ON | 343 | 18.3 | 17.8 | 12.27 | 11.77 | 11.17 | 18.57 |
| | | | | | OFF | 358 | 13.3 | 18.2 | 12.38 | 12.82 | 11.42 | 18.82 |
| 115 | 3 | 1 | 86 | 227.5 | ON | 348 | 9.8 | 17.3 | 12.26 | 11.63 | 11.83 | 18.43 |
| | | | | | OFF | 371 | 22.4 | 19.2 | 12.39 | 12.47 | 11.87 | 11.27 |
| 116 | 3 | 4 | 16 | 42.3 | ON | 376 | 29.8 | 28.4 | 12.41 | 12.62 | 12.82 | 11.42 |
| | | | | | OFF | 377 | 32.3 | 21.8 | 12.41 | 12.65 | 12.85 | 11.45 |
| 117 | 3 | 1 | 127 | 335.9 | ON | 356 | 14.9 | 17.8 | 12.33 | 12.14 | 11.54 | 18.94 |
| | | | | | OFF | 377 | 33.9 | 21.2 | 12.41 | 12.67 | 12.87 | 11.47 |
| 118 | 8 | 2 | 48 | 185.8 | ON | 354 | 14.8 | 17.5 | 12.32 | 12.87 | 11.47 | 18.87 |
| | | | | | OFF | 368 | 28.3 | 18.3 | 12.38 | 12.48 | 11.88 | 11.28 |
| 118 | 8 | 4 | 51 | 134.9 | ON | 376 | 29.6 | 28.8 | 12.41 | 12.62 | 12.82 | 11.42 |
| | | | | | OFF | 378 | 37.1 | 22.8 | 12.41 | 12.78 | 12.18 | 11.58 |
| 118 | 8 | 7 | 48 | 185.8 | ON | 378 | 49.4 | 27.4 | 12.41 | 12.75 | 12.15 | 11.55 |

| | | | | | | | | | | | |
|-----|---|---|-----|----------|-----|-------|-------|-------|-------|-------|-------|
| | | | | OFF | 378 | 54.9 | 31.3 | 12.41 | 12.75 | 12.15 | 11.55 |
| 119 | 2 | 1 | 68 | 158.7 ON | 375 | 23.8 | 18.7 | 12.40 | 12.51 | 11.91 | 11.31 |
| | | | | OFF | 377 | 32.8 | 28.6 | 12.41 | 12.66 | 12.86 | 11.46 |
| 121 | 9 | 6 | 48 | 185.8 ON | 363 | 78.5 | 68.8 | 12.36 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 349 | 72.8 | 79.9 | 12.38 | 12.75 | 12.15 | 11.55 |
| 122 | 5 | 1 | 25 | 66.1 ON | 376 | 49.7 | 26.6 | 12.41 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 376 | 53.3 | 29.8 | 12.41 | 12.75 | 12.15 | 11.55 |
| 124 | 7 | 4 | 28 | 52.9 ON | 331 | 73.1 | 181.7 | 12.22 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 321 | 72.8 | 112.9 | 12.18 | 12.75 | 12.15 | 11.55 |
| 124 | 7 | 7 | 18 | 47.6 ON | 381 | 68.8 | 138.8 | 12.89 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 293 | 65.5 | 136.8 | 12.85 | 12.75 | 12.15 | 11.55 |
| 125 | 5 | 8 | 11 | 29.1 ON | 376 | 48.8 | 21.8 | 12.41 | 12.72 | 12.12 | 11.52 |
| | | | | OFF | 376 | 42.6 | 22.4 | 12.41 | 12.73 | 12.13 | 11.53 |
| 127 | 7 | 2 | 17 | 45.8 ON | 376 | 46.8 | 23.8 | 12.41 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 376 | 49.3 | 25.1 | 12.41 | 12.75 | 12.15 | 11.55 |
| 132 | 4 | 1 | 77 | 283.7 ON | 354 | 12.7 | 15.4 | 12.32 | 11.98 | 11.38 | 10.78 |
| | | | | OFF | 374 | 24.5 | 17.8 | 12.48 | 12.53 | 11.93 | 11.33 |
| 133 | 4 | 3 | 158 | 396.7 ON | 376 | 49.8 | 23.4 | 12.41 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 369 | 68.7 | 45.9 | 12.38 | 12.75 | 12.15 | 11.55 |
| 134 | 3 | 4 | 58 | 132.2 ON | 374 | 27.3 | 16.8 | 12.48 | 12.58 | 11.98 | 11.38 |
| | | | | OFF | 375 | 34.9 | 18.3 | 12.48 | 12.68 | 12.88 | 11.48 |
| 134 | 3 | 7 | 28 | 52.9 ON | 376 | 58.8 | 24.1 | 12.41 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 376 | 53.8 | 25.9 | 12.48 | 12.75 | 12.15 | 11.55 |
| 135 | 1 | 7 | 63 | 166.6 ON | 376 | 38.7 | 19.1 | 12.41 | 12.71 | 12.11 | 11.51 |
| | | | | OFF | 376 | 47.9 | 22.4 | 12.41 | 12.75 | 12.15 | 11.55 |
| 135 | 1 | 8 | 25 | 66.1 ON | 376 | 51.9 | 24.5 | 12.41 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 375 | 55.5 | 26.8 | 12.48 | 12.75 | 12.15 | 11.55 |
| 136 | 7 | 4 | 28 | 52.9 ON | 375 | 32.5 | 17.4 | 12.48 | 12.65 | 12.85 | 11.45 |
| | | | | OFF | 376 | 35.6 | 18.1 | 12.48 | 12.68 | 12.88 | 11.48 |
| 137 | 9 | 5 | 77 | 283.7 ON | 356 | 72.5 | 56.5 | 12.33 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 323 | 75.1 | 182.8 | 12.19 | 12.75 | 12.15 | 11.55 |
| 138 | 5 | 2 | 14 | 37.8 ON | 374 | 53.8 | 24.4 | 12.48 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 374 | 55.2 | 25.8 | 12.48 | 12.75 | 12.15 | 11.55 |
| 143 | 7 | 2 | 23 | 68.8 ON | 375 | 45.2 | 19.5 | 12.48 | 12.74 | 12.14 | 11.54 |
| | | | | OFF | 375 | 48.7 | 28.9 | 12.48 | 12.75 | 12.15 | 11.55 |
| 146 | 6 | 3 | 46 | 121.7 ON | 372 | 28.2 | 13.8 | 12.39 | 12.48 | 11.88 | 11.28 |
| | | | | OFF | 374 | 27.4 | 14.7 | 12.48 | 12.59 | 11.99 | 11.39 |
| 149 | 6 | 3 | 166 | 423.2 ON | 375 | 49.5 | 19.8 | 12.48 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 358 | 71.4 | 43.6 | 12.34 | 12.75 | 12.15 | 11.55 |
| 150 | 6 | 1 | 7 | 18.5 ON | 218 | -64.2 | 38.8 | 11.57 | 8.8 | 8.8 | 8.8 |
| | | | | OFF | 211 | -62.6 | 28.3 | 11.58 | 8.8 | 8.8 | 8.8 |
| 150 | 3 | 6 | 128 | 338.6 ON | 375 | 35.6 | 15.4 | 12.48 | 12.68 | 12.88 | 11.48 |
| | | | | OFF | 374 | 54.6 | 22.8 | 12.48 | 12.75 | 12.15 | 11.55 |
| 153 | 2 | 1 | 37 | 97.9 ON | 374 | 53.9 | 28.8 | 12.48 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 373 | 59.3 | 24.2 | 12.48 | 12.75 | 12.15 | 11.55 |
| 154 | 1 | 4 | 28 | 74.1 ON | 374 | 56.8 | 22.2 | 12.48 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 373 | 68.9 | 25.2 | 12.39 | 12.75 | 12.15 | 11.55 |
| 154 | 1 | 8 | 26 | 68.8 ON | 355 | 72.3 | 42.8 | 12.33 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 345 | 75.2 | 54.2 | 12.28 | 12.75 | 12.15 | 11.55 |
| 158 | 8 | 3 | 45 | 119.8 ON | 388 | 68.7 | 23.6 | 12.42 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 379 | 67.1 | 38.2 | 12.42 | 12.75 | 12.15 | 11.55 |

| | | | | | | | | | | | |
|-----|-----|-----|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 159 | 3 8 | 16 | 42.3 | ON | 381 | 44.8 | 15.8 | 12.43 | 12.74 | 12.14 | 11.54 |
| | | | | OFF | 381 | 47.2 | 16.6 | 12.43 | 12.75 | 12.15 | 11.55 |
| 164 | 3 2 | 48 | 185.8 | ON | 372 | 15.8 | 18.4 | 12.39 | 12.19 | 11.59 | 18.99 |
| | | | | OFF | 379 | 22.1 | 11.8 | 12.42 | 12.46 | 11.86 | 11.26 |
| 165 | 3 4 | 17 | 45.8 | ON | 381 | 48.7 | 13.5 | 12.43 | 12.72 | 12.12 | 11.52 |
| | | | | OFF | 381 | 43.4 | 14.1 | 12.43 | 12.74 | 12.14 | 11.54 |
| 165 | 3 6 | 45 | 119.8 | ON | 388 | 68.8 | 28.8 | 12.42 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 379 | 66.5 | 26.6 | 12.42 | 12.75 | 12.15 | 11.55 |
| 166 | 3 1 | 7 | 18.5 | ON | 213 | -65.3 | 24.9 | 11.59 | 8.8 | 8.8 | 8.8 |
| | | | | OFF | 215 | -63.6 | 23.3 | 11.68 | 8.8 | 8.8 | 8.8 |
| 166 | 9 6 | 51 | 134.9 | ON | 381 | 44.2 | 14.1 | 12.43 | 12.74 | 12.14 | 11.54 |
| | | | | OFF | 381 | 52.8 | 16.5 | 12.43 | 12.75 | 12.15 | 11.55 |
| 167 | 9 6 | 58 | 153.4 | ON | 381 | 39.9 | 13.8 | 12.43 | 12.72 | 12.12 | 11.52 |
| | | | | OFF | 381 | 48.8 | 15.2 | 12.43 | 12.75 | 12.15 | 11.55 |
| 168 | 4 2 | 52 | 137.5 | ON | 379 | 22.3 | 18.4 | 12.42 | 12.47 | 11.87 | 11.27 |
| | | | | OFF | 381 | 38.3 | 11.3 | 12.42 | 12.63 | 12.83 | 11.43 |
| 170 | 4 6 | 16 | 42.3 | ON | 364 | 73.1 | 34.7 | 12.36 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 358 | 75.2 | 48.3 | 12.34 | 12.75 | 12.15 | 11.55 |
| 173 | 8 3 | 188 | 264.5 | ON | 281 | 68.5 | 154.7 | 11.99 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 241 | 48.4 | 166.5 | 11.77 | 12.75 | 12.15 | 11.55 |
| 175 | 9 8 | 16 | 42.3 | ON | 381 | 58.9 | 13.9 | 12.43 | 12.75 | 12.15 | 11.55 |
| | | | | OFF | 381 | 53.3 | 14.7 | 12.42 | 12.75 | 12.15 | 11.55 |

STELLAR-INDEX SUMMARY

| CAMERA DATA | ET | FILM | FILTER | GRID | ASSEMBLY NO |
|-------------|-------|------|--------|------|-------------|
| STELLAR | 1.8 | 3481 | NONE | 125 | D188 |
| INDEX | 1/500 | 3488 | W/21 | 125 | |

PERFORMANCE SUMMARY

| OPN NO | FR | STEL FEET | INDX FEET | H | M | S | ON | ON | OFF | OFF | SEC | | | |
|--------|-----|-----------|-----------|------|----|----|----|----|-----|------|-----|----|------|-----|
| | | | | | | | 0 | 0 | 0 | 0 | DUR | | | |
| 79 | 8 2 | 1 | 0.18 | 0.28 | 28 | 44 | 13 | 2 | 23 | 189W | 2 | 22 | 189W | 25 |
| 85 | 8 2 | 13 | 1.29 | 2.57 | 5 | 41 | 7 | 2 | 34 | 112E | 2 | 22 | 114E | 288 |
| 86 | 9 1 | 8 | 0.79 | 1.58 | 7 | 1 | 5 | 2 | 73 | 63E | 2 | 65 | 75E | 141 |
| 86 | 9 5 | 3 | 0.38 | 0.59 | 7 | 9 | 16 | 2 | 42 | 88E | 2 | 39 | 88E | 52 |
| 86 | 9 6 | 8 | 0.79 | 1.58 | 7 | 18 | 58 | 2 | 35 | 89E | 2 | 27 | 98E | 135 |
| 87 | 1 3 | 15 | 1.48 | 2.97 | 8 | 34 | 58 | 2 | 59 | 58E | 2 | 44 | 64E | 246 |
| 88 | 1 8 | 2 | 0.28 | 0.48 | 9 | 45 | 5 | 1 | 38 | 113W | 1 | 41 | 113W | 58 |
| 88 | 9 5 | 13 | 1.29 | 2.57 | 18 | 9 | 17 | 2 | 41 | 42E | 2 | 28 | 45E | 286 |
| 88 | 9 8 | 6 | 0.59 | 1.19 | 18 | 17 | 6 | 2 | 18 | 48E | 2 | 4 | 48E | 182 |
| 69 | 2 2 | 4 | 0.48 | 0.79 | 11 | 43 | 47 | 2 | 23 | 23E | 2 | 19 | 24E | 71 |
| 94 | 6 2 | 3 | 0.38 | 0.59 | 19 | 9 | 27 | 2 | 39 | 92W | 2 | 36 | 91W | 58 |
| 95 | 4 1 | 6 | 0.59 | 1.19 | 28 | 48 | 5 | 2 | 36 | 114W | 2 | 31 | 113W | 181 |
| 98 | 9 1 | 18 | 0.99 | 1.98 | 1 | 1 | 38 | 2 | 69 | 159E | 2 | 59 | 169E | 165 |
| 100 | 9 5 | 12 | 1.19 | 2.38 | 4 | 5 | 48 | 2 | 53 | 127E | 2 | 41 | 131E | 184 |
| 101 | 2 2 | 6 | 0.59 | 1.19 | 5 | 55 | 38 | 3 | 27 | 118E | 3 | 35 | 119E | 138 |
| 102 | 4 3 | 11 | 1.89 | 2.18 | 7 | 3 | 56 | 2 | 59 | 78E | 2 | 48 | 83E | 174 |
| 102 | 4 6 | 9 | 0.89 | 1.78 | 7 | 11 | 46 | 2 | 27 | 88E | 2 | 19 | 89E | 138 |
| 103 | 5 6 | 3 | 0.38 | 0.59 | 8 | 36 | 57 | 2 | 47 | 61E | 2 | 44 | 62E | 47 |
| 103 | 5 8 | 5 | 0.49 | 0.99 | 8 | 38 | 43 | 2 | 39 | 63E | 2 | 35 | 64E | 83 |
| 104 | 6 6 | 5 | 0.49 | 0.99 | 18 | 14 | 55 | 2 | 14 | 45E | 2 | 18 | 45E | 76 |

| | | | | | | | | | | | | | | | |
|-----|---|---|----|------|------|----|----|----|---|----|------|---|----|------|-----|
| 185 | 3 | 1 | 8 | 0.79 | 1.58 | 11 | 34 | 54 | 2 | 54 | 13E | 2 | 46 | 16E | 125 |
| 186 | 7 | 5 | 4 | 0.48 | 0.79 | 13 | 18 | 28 | 2 | 32 | 2W | 2 | 28 | 1W | 69 |
| 186 | 7 | 8 | 5 | 0.49 | 0.99 | 13 | 15 | 49 | 2 | 18 | 8E | 2 | 5 | 1E | 87 |
| 188 | 8 | 5 | 9 | 0.89 | 1.78 | 16 | 21 | 8 | 3 | 12 | 42W | 3 | 22 | 48W | 165 |
| 118 | 6 | 1 | 2 | 0.28 | 0.48 | 19 | 8 | 31 | 2 | 69 | 111W | 2 | 67 | 189W | 36 |
| 111 | 6 | 1 | 3 | 0.38 | 0.59 | 28 | 38 | 38 | 2 | 37 | 116W | 2 | 34 | 116W | 57 |
| 113 | 5 | 1 | 3 | 0.38 | 0.59 | 23 | 29 | 29 | 2 | 71 | 176E | 2 | 68 | 179W | 59 |
| 115 | 3 | 1 | 13 | 1.29 | 2.57 | 2 | 28 | 53 | 2 | 72 | 128E | 2 | 68 | 144E | 228 |
| 116 | 3 | 4 | 3 | 0.38 | 0.59 | 4 | 4 | 6 | 2 | 52 | 125E | 2 | 58 | 126E | 52 |
| 117 | 3 | 1 | 19 | 1.88 | 3.76 | 5 | 38 | 9 | 2 | 67 | 92E | 2 | 48 | 184E | 386 |
| 118 | 8 | 2 | 6 | 0.59 | 1.19 | 6 | 59 | 46 | 2 | 68 | 68E | 2 | 62 | 74E | 118 |
| 118 | 8 | 4 | 8 | 0.79 | 1.58 | 7 | 3 | 47 | 2 | 52 | 88E | 2 | 45 | 82E | 138 |
| 118 | 8 | 7 | 7 | 0.69 | 1.39 | 7 | 9 | 8 | 2 | 32 | 85E | 2 | 25 | 87E | 185 |
| 119 | 2 | 1 | 9 | 0.89 | 1.78 | 8 | 32 | 8 | 2 | 58 | 54E | 2 | 49 | 58E | 152 |
| 121 | 9 | 6 | 7 | 0.69 | 1.39 | 11 | 45 | 17 | 2 | 4 | 21E | 3 | 1 | 22E | 111 |
| 122 | 5 | 1 | 4 | 0.48 | 0.79 | 13 | 8 | 28 | 2 | 31 | 4W | 2 | 27 | 3W | 72 |
| 124 | 7 | 4 | 4 | 0.48 | 0.79 | 16 | 18 | 7 | 3 | 8 | 44W | 3 | 11 | 44W | 67 |
| 124 | 7 | 7 | 3 | 0.38 | 0.59 | 16 | 28 | 53 | 3 | 19 | 43W | 3 | 22 | 42W | 67 |
| 125 | 5 | 8 | 2 | 0.28 | 0.48 | 17 | 35 | 37 | 2 | 41 | 74W | 2 | 39 | 73W | 48 |
| 127 | 7 | 2 | 3 | 0.38 | 0.59 | 28 | 36 | 51 | 2 | 35 | 118W | 2 | 32 | 117W | 54 |
| 138 | 4 | 1 | 12 | 1.19 | 2.38 | 8 | 57 | 35 | 2 | 69 | 155E | 2 | 58 | 166E | 192 |
| 133 | 4 | 3 | 22 | 2.18 | 4.36 | 5 | 36 | 19 | 2 | 33 | 186E | 2 | 18 | 189E | 355 |
| 134 | 3 | 4 | 8 | 0.79 | 1.58 | 7 | 8 | 33 | 2 | 55 | 77E | 2 | 47 | 88E | 129 |
| 134 | 3 | 7 | 4 | 0.48 | 0.79 | 7 | 6 | 36 | 2 | 31 | 84E | 2 | 28 | 84E | 61 |
| 135 | 1 | 7 | 18 | 0.99 | 1.98 | 8 | 33 | 16 | 2 | 44 | 58E | 2 | 34 | 61E | 156 |
| 135 | 1 | 8 | 4 | 0.48 | 0.79 | 8 | 36 | 42 | 2 | 38 | 61E | 2 | 26 | 62E | 71 |
| 136 | 7 | 4 | 4 | 0.48 | 0.79 | 18 | 1 | 27 | 2 | 58 | 34E | 2 | 47 | 35E | 61 |
| 137 | 9 | 5 | 12 | 1.19 | 2.38 | 11 | 42 | 34 | 2 | 5 | 28E | 3 | 8 | 21E | 288 |
| 138 | 5 | 2 | 3 | 0.38 | 0.59 | 13 | 6 | 23 | 2 | 29 | 5W | 2 | 26 | 5W | 48 |
| 143 | 7 | 2 | 4 | 0.48 | 0.79 | 28 | 33 | 15 | 2 | 37 | 128W | 2 | 34 | 119W | 67 |
| 146 | 6 | 3 | 8 | 0.79 | 1.58 | 8 | 56 | 15 | 2 | 62 | 161E | 2 | 55 | 165E | 121 |
| 149 | 6 | 3 | 24 | 2.38 | 4.75 | 5 | 32 | 58 | 2 | 33 | 184E | 2 | 8 | 188E | 379 |
| 158 | 6 | 1 | 1 | 0.18 | 0.28 | 6 | 33 | 44 | 1 | 27 | 78W | 1 | 29 | 78W | 48 |
| 158 | 3 | 6 | 19 | 1.88 | 3.76 | 6 | 59 | 12 | 2 | 47 | 78E | 2 | 28 | 83E | 384 |
| 153 | 2 | 1 | 6 | 0.59 | 1.19 | 11 | 33 | 6 | 2 | 29 | 15E | 2 | 23 | 16E | 98 |
| 154 | 1 | 4 | 5 | 0.49 | 0.99 | 13 | 3 | 35 | 2 | 26 | 6W | 2 | 21 | 6W | 79 |
| 154 | 1 | 8 | 4 | 0.48 | 0.79 | 13 | 8 | 8 | 2 | 8 | 4W | 2 | 3 | 3W | 78 |
| 158 | 8 | 3 | 7 | 0.69 | 1.39 | 19 | 3 | 33 | 2 | 22 | 96W | 2 | 15 | 95W | 118 |
| 159 | 3 | 8 | 3 | 0.38 | 0.59 | 28 | 29 | 11 | 2 | 38 | 122W | 2 | 36 | 121W | 58 |
| 164 | 3 | 2 | 7 | 0.69 | 1.39 | 3 | 58 | 34 | 2 | 67 | 118E | 2 | 61 | 115E | 187 |
| 165 | 3 | 4 | 3 | 0.38 | 0.59 | 5 | 26 | 27 | 2 | 43 | 181E | 2 | 48 | 181E | 54 |
| 165 | 3 | 6 | 7 | 0.69 | 1.39 | 5 | 31 | 21 | 2 | 23 | 185E | 2 | 16 | 186E | 118 |
| 166 | 3 | 1 | 1 | 0.18 | 0.28 | 6 | 29 | 33 | 1 | 27 | 79W | 1 | 29 | 79W | 41 |
| 166 | 9 | 6 | 8 | 0.79 | 1.58 | 6 | 57 | 2 | 2 | 39 | 79E | 2 | 31 | 81E | 131 |
| 167 | 9 | 6 | 9 | 0.89 | 1.78 | 8 | 25 | 41 | 2 | 43 | 55E | 2 | 34 | 57E | 147 |
| 168 | 4 | 2 | 8 | 0.79 | 1.58 | 9 | 51 | 8 | 2 | 61 | 25E | 2 | 53 | 29E | 132 |
| 178 | 4 | 6 | 3 | 0.38 | 0.59 | 13 | 3 | 24 | 2 | 9 | 5W | 2 | 6 | 5W | 51 |
| 173 | 8 | 3 | 15 | 1.48 | 2.97 | 17 | 48 | 46 | 3 | 24 | 69W | 3 | 45 | 65W | 332 |
| 175 | 9 | 8 | 3 | 0.38 | 0.59 | 28 | 25 | 55 | 2 | 33 | 122W | 2 | 38 | 121W | 49 |

NOTE - ONLY THE LAST 5 FRAMES FOR THE FWD PAN CAMERA AND THE LAST SIX FRAMES FOR THE AFT PAN CAMERA OF OPERATION 79-8-2 ARE IN THE B MISSION RECOVERY BUCKET.

NOTE - OPERATION 81-8-8 IS THE CUT AND WRAP OPERATION OCCURING AT THE A MISSION RECOVERY.

NOTE - T/M DATA OBSERVED DURING OPERATION 175-9-8 SHOWED THAT ALL OF THE FILM WAS DEPLETED FOR BOTH PAN CAMERAS PRIOR TO THIS OPERATION.

NOTE - T/M DATA INDICATE NORMAL SYSTEM PERFORMANCE FOR THE ENTIRE MISSION.

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A. 1839-2
 B. DRY
 C. PERFORMANCE ESTIMATE - PART TWO

RATE ESTIMATE
 FWD PAN CAMERA NUMBER 286

| OPN NO | FR | R | A | TUR/ CUR | INST CPS | INST ANG-VEL | SCAN RATE R/SEC I/SEC | PCT RATE CALIB REQD |
|--------|----|---|-----|-------------|-------------|-----------------|--------------------------|------------------------|
| 79 | 8 | 2 | 5 | 6 | 4 ON 2817 | 8.4424 | 8.83733 2.788 66.71 | -2.1 -4.3 |
| | | | | | OFF 12 | 8.4424 | 8.83733 2.779 66.71 | -2.1 -4.2 |
| 81 | 8 | 8 | 3 | 6 | 4 ON 8 | 8.1224 | 8.81833 8.769 18.46 | -2.1 -261.6 |
| | | | | | OFF 24 | 8.1224 | 8.81833 8.769 18.46 | -2.1 -263.6 |
| 85 | 8 | 2 | 82 | 6 | 4 ON 1859 | 8.4425 | 8.83734 2.788 66.73 | -2.1 -4.5 |
| | | | | | OFF 187 | 8.4423 | 8.83732 2.779 66.69 | -2.1 -4.1 |
| 86 | 9 | 1 | 58 | 6 | 4 ON 1264 | 8.3851 | 8.83258 2.428 58.88 | -2.1 -2.5 |
| | | | | | OFF 128 | 8.4188 | 8.83466 2.581 61.95 | -2.1 -8.9 |
| 86 | 9 | 5 | 17 | 6 | 4 ON 1755 | 8.4428 | 8.83729 2.777 66.65 | -2.1 -3.4 |
| | | | | | OFF 39 | 8.4422 | 8.83731 2.779 66.69 | -2.1 -3.9 |
| 86 | 9 | 6 | 53 | 6 | 4 ON 1849 | 8.4425 | 8.83733 2.788 66.72 | -2.1 -4.4 |
| | | | | | OFF 122 | 8.4425 | 8.83734 2.781 66.73 | -2.1 -4.6 |
| 87 | 1 | 3 | 182 | 6 | 4 ON 1496 | 8.4288 | 8.83618 2.694 64.66 | -2.1 -8.1 |
| | | | | | OFF 233 | 8.4418 | 8.83728 2.776 66.62 | -2.1 -3.8 |
| 88 | 1 | 8 | 11 | 6 | 4 ON 317 | 8.2394 | 8.82828 1.584 36.18 | -2.1 -13.4 |
| | | | | | OFF 45 | 8.2394 | 8.82828 1.584 36.18 | -2.1 -15.2 |
| 88 | 9 | 5 | 84 | 6 | 4 ON 1768 | 8.4421 | 8.83738 2.778 66.66 | -2.1 -3.6 |
| | | | | | OFF 193 | 8.4426 | 8.83734 2.781 66.74 | -2.1 -4.7 |
| 88 | 9 | 8 | 38 | 6 | 4 ON 2237 | 8.4485 | 8.83717 2.768 66.43 | -2.1 -8.6 |
| | | | | | OFF 89 | 8.4335 | 8.83658 2.724 65.37 | -2.1 -8.6 |
| 89 | 2 | 2 | 25 | 6 | 4 ON 2843 | 8.4423 | 8.83732 2.779 66.78 | -2.1 -4.1 |
| | | | | | OFF 58 | 8.4419 | 8.83729 2.777 66.64 | -2.1 -3.4 |
| 94 | 6 | 2 | 19 | 6 | 4 ON 1814 | 8.4423 | 8.83732 2.779 66.78 | -2.1 -4.1 |
| | | | | | OFF 45 | 8.4425 | 8.83734 2.788 66.73 | -2.1 -4.4 |
| 95 | 4 | 1 | 38 | 6 | 4 ON 1858 | 8.4415 | 8.83725 2.774 66.57 | -2.3 -4.6 |
| | | | | | OFF 88 | 8.4415 | 8.83726 2.774 66.58 | -2.3 -4.8 |
| 98 | 9 | 1 | 64 | 6 | 4 ON 1373 | 8.4861 | 8.83427 2.552 61.24 | -2.3 -1.7 |
| | | | | | OFF 152 | 8.4325 | 8.83658 2.718 65.22 | -2.3 -8.3 |
| 100 | 9 | 5 | 75 | 6 | 4 ON 1638 | 8.4397 | 8.83718 2.763 66.38 | -2.3 -1.5 |
| | | | | | OFF 171 | 8.4412 | 8.83723 2.772 66.54 | -2.3 -4.2 |
| 101 | 2 | 2 | 41 | 6 | 4 ON 2828 | 8.3369 | 8.82843 2.117 58.88 | -2.3 -8.4 |
| | | | | | OFF 125 | 8.3164 | 8.82678 1.988 47.71 | -2.3 -8.2 |
| 102 | 4 | 3 | 72 | 6 | 4 ON 1542 | 8.4349 | 8.83678 2.733 65.58 | -2.3 -8.3 |
| | | | | | OFF 161 | 8.4485 | 8.83717 2.768 66.43 | -2.3 -2.8 |
| 102 | 4 | 6 | 55 | 6 | 4 ON 2812 | 8.4414 | 8.83724 2.773 66.56 | -2.3 -4.6 |
| | | | | | OFF 125 | 8.4486 | 8.83718 2.768 66.44 | -2.3 -3.8 |
| 103 | 5 | 6 | 14 | 6 | 4 ON 1738 | 8.4487 | 8.83719 2.769 66.46 | -2.3 -3.3 |
| | | | | | OFF 34 | 8.4418 | 8.83721 2.771 66.58 | -2.3 -3.8 |
| 103 | 5 | 8 | 29 | 6 | 4 ON 1836 | 8.4414 | 8.83724 2.773 66.56 | -2.3 -4.5 |
| | | | | | OFF 78 | 8.4415 | 8.83726 2.774 66.58 | -2.3 -4.8 |
| 104 | 6 | 6 | 28 | 6 | 4 ON 2217 | 8.4397 | 8.83718 2.763 66.31 | -2.3 -1.4 |
| | | | | | OFF 63 | 8.4388 | 8.83783 2.757 66.17 | -2.3 -8.2 |

| | | | | | | | | | | | | | |
|-----|---|---|-----|---|---|-----|------|--------|---------|-------|-------|------|------|
| 105 | 3 | 1 | 49 | 6 | 4 | ON | 1626 | 0.4396 | 0.03709 | 2.762 | 66.29 | -2.3 | -1.4 |
| | | | | | | OFF | 112 | 0.4408 | 0.03719 | 2.770 | 66.47 | -2.3 | -3.4 |
| 106 | 7 | 5 | 24 | 6 | 4 | ON | 1960 | 0.4415 | 0.03726 | 2.774 | 66.58 | -2.3 | -4.8 |
| | | | | | | OFF | 56 | 0.4414 | 0.03724 | 2.773 | 66.56 | -2.3 | -4.5 |
| 106 | 7 | 8 | 31 | 6 | 4 | ON | 2289 | 0.4380 | 0.03696 | 2.752 | 66.05 | -2.3 | 0.3 |
| | | | | | | OFF | 74 | 0.4267 | 0.03601 | 2.681 | 64.35 | -2.3 | 0.2 |
| 108 | 8 | 5 | 55 | 6 | 4 | ON | 2626 | 0.3763 | 0.03175 | 2.364 | 56.74 | -2.3 | -0.6 |
| | | | | | | OFF | 152 | 0.3453 | 0.02913 | 2.169 | 52.87 | -2.3 | -1.1 |
| 110 | 6 | 1 | 8 | 6 | 4 | ON | 1367 | 0.4049 | 0.03417 | 2.544 | 61.06 | -2.3 | -3.5 |
| | | | | | | OFF | 23 | 0.4094 | 0.03454 | 2.572 | 61.73 | -2.3 | -3.1 |
| 111 | 6 | 1 | 18 | 6 | 4 | ON | 1865 | 0.4415 | 0.03725 | 2.774 | 66.57 | -2.3 | -4.7 |
| | | | | | | OFF | 44 | 0.4416 | 0.03726 | 2.774 | 66.58 | -2.3 | -4.7 |
| 113 | 5 | 1 | 18 | 6 | 4 | ON | 1336 | 0.3987 | 0.03364 | 2.505 | 60.13 | -2.3 | -4.0 |
| | | | | | | OFF | 46 | 0.4077 | 0.03440 | 2.561 | 61.47 | -2.3 | -3.3 |
| 115 | 3 | 1 | 86 | 6 | 4 | ON | 1318 | 0.3953 | 0.03335 | 2.484 | 59.61 | -2.3 | -4.5 |
| | | | | | | OFF | 207 | 0.4325 | 0.03649 | 2.717 | 65.22 | -2.3 | -1.6 |
| 116 | 3 | 4 | 16 | 6 | 4 | ON | 1641 | 0.4398 | 0.03711 | 2.763 | 66.32 | -2.3 | -2.6 |
| | | | | | | OFF | 39 | 0.4403 | 0.03715 | 2.766 | 66.39 | -2.3 | -3.2 |
| 117 | 3 | 1 | 128 | 6 | 4 | ON | 1416 | 0.4141 | 0.03494 | 2.602 | 62.44 | -2.3 | -2.9 |
| | | | | | | OFF | 293 | 0.4406 | 0.03717 | 2.768 | 66.44 | -2.3 | -3.5 |
| 118 | 8 | 2 | 40 | 6 | 4 | ON | 1405 | 0.4121 | 0.03477 | 2.589 | 62.14 | -2.3 | -3.1 |
| | | | | | | OFF | 97 | 0.4289 | 0.03619 | 2.695 | 64.67 | -2.3 | -1.9 |
| 118 | 8 | 4 | 51 | 6 | 4 | ON | 1645 | 0.4399 | 0.03712 | 2.764 | 66.33 | -2.3 | -2.6 |
| | | | | | | OFF | 117 | 0.4410 | 0.03721 | 2.771 | 66.50 | -2.3 | -4.1 |
| 118 | 8 | 7 | 40 | 6 | 4 | ON | 1959 | 0.4415 | 0.03726 | 2.774 | 66.58 | -2.3 | -4.5 |
| | | | | | | OFF | 92 | 0.4412 | 0.03723 | 2.772 | 66.54 | -2.3 | -3.6 |
| 119 | 2 | 1 | 60 | 6 | 4 | ON | 1558 | 0.4372 | 0.03689 | 2.747 | 65.93 | -2.3 | -1.3 |
| | | | | | | OFF | 139 | 0.4404 | 0.03716 | 2.767 | 66.42 | -2.3 | -3.4 |
| 121 | 9 | 6 | 41 | 6 | 4 | ON | 2369 | 0.4245 | 0.03582 | 2.667 | 64.01 | -2.6 | 1.2 |
| | | | | | | OFF | 98 | 0.4070 | 0.03434 | 2.557 | 61.38 | -2.6 | 1.1 |
| 122 | 5 | 1 | 25 | 6 | 4 | ON | 1972 | 0.4403 | 0.03715 | 2.767 | 66.40 | -2.6 | -4.7 |
| | | | | | | OFF | 59 | 0.4401 | 0.03714 | 2.765 | 66.37 | -2.6 | -4.1 |
| 124 | 7 | 4 | 20 | 6 | 4 | ON | 2574 | 0.3860 | 0.03257 | 2.425 | 58.20 | -2.6 | 0.0 |
| | | | | | | OFF | 54 | 0.3745 | 0.03160 | 2.353 | 56.48 | -2.6 | 0.5 |
| 124 | 7 | 7 | 18 | 6 | 4 | ON | 2741 | 0.3506 | 0.02958 | 2.203 | 52.87 | -2.6 | -0.2 |
| | | | | | | OFF | 54 | 0.3415 | 0.02881 | 2.146 | 51.50 | -2.6 | 0.1 |
| 125 | 5 | 0 | 11 | 6 | 4 | ON | 1836 | 0.4402 | 0.03714 | 2.766 | 66.38 | -2.6 | -4.8 |
| | | | | | | OFF | 27 | 0.4403 | 0.03715 | 2.766 | 66.39 | -2.6 | -4.9 |
| 127 | 7 | 2 | 17 | 6 | 4 | ON | 1934 | 0.4404 | 0.03716 | 2.767 | 66.40 | -2.6 | -4.8 |
| | | | | | | OFF | 41 | 0.4403 | 0.03715 | 2.767 | 66.40 | -2.6 | -4.6 |
| 130 | 4 | 1 | 77 | 6 | 4 | ON | 1418 | 0.4133 | 0.03487 | 2.597 | 62.32 | -2.6 | -3.5 |
| | | | | | | OFF | 179 | 0.4380 | 0.03696 | 2.752 | 66.05 | -2.6 | -2.1 |
| 133 | 4 | 3 | 151 | 6 | 4 | ON | 1983 | 0.4403 | 0.03715 | 2.766 | 66.39 | -2.6 | -4.5 |
| | | | | | | OFF | 342 | 0.4315 | 0.03641 | 2.711 | 65.07 | -2.6 | 1.0 |
| 134 | 3 | 4 | 51 | 6 | 4 | ON | 1652 | 0.4380 | 0.03702 | 2.757 | 66.16 | -2.6 | -3.0 |
| | | | | | | OFF | 116 | 0.4398 | 0.03711 | 2.764 | 66.33 | -2.6 | -4.4 |
| 134 | 3 | 7 | 21 | 6 | 4 | ON | 2015 | 0.4402 | 0.03714 | 2.766 | 66.38 | -2.6 | -4.3 |
| | | | | | | OFF | 48 | 0.4402 | 0.03712 | 2.764 | 66.34 | -2.6 | -3.7 |
| 135 | 1 | 7 | 63 | 6 | 4 | ON | 1829 | 0.4402 | 0.03714 | 2.766 | 66.37 | -2.6 | -4.8 |
| | | | | | | OFF | 143 | 0.4403 | 0.03715 | 2.767 | 66.40 | -2.6 | -4.7 |
| 135 | 1 | 0 | 25 | 6 | 4 | ON | 2035 | 0.4401 | 0.03714 | 2.765 | 66.37 | -2.6 | -4.1 |

| | | | | | | | | | | | | | |
|-----|---|---|-----|---|---|-----|------|--------|---------|-------|-------|------|-------|
| 136 | 7 | 4 | 28 | 6 | 4 | OFF | 58 | 0.4398 | 0.83711 | 2.763 | 66.32 | -2.6 | -3.3 |
| | | | | | 4 | ON | 1735 | 0.4396 | 0.83789 | 2.762 | 66.29 | -2.6 | -4.1 |
| | | | | | | OFF | 48 | 0.4399 | 0.83712 | 2.764 | 66.34 | -2.6 | -4.6 |
| 137 | 9 | 5 | 79 | 6 | 4 | ON | 2416 | 0.4165 | 0.83514 | 2.617 | 62.88 | -2.6 | 0.7 |
| | | | | | | OFF | 195 | 0.3781 | 0.83191 | 2.376 | 57.82 | -2.6 | -8.1 |
| 138 | 5 | 2 | 15 | 6 | 4 | ON | 2859 | 0.4399 | 0.83712 | 2.764 | 66.34 | -2.6 | -3.8 |
| | | | | | | OFF | 35 | 0.4397 | 0.83718 | 2.763 | 66.31 | -2.6 | -3.3 |
| 143 | 7 | 2 | 23 | 6 | 4 | ON | 1946 | 0.4483 | 0.83715 | 2.766 | 66.39 | -2.6 | -4.8 |
| | | | | | | OFF | 54 | 0.4482 | 0.83714 | 2.766 | 66.38 | -2.6 | -4.4 |
| 146 | 6 | 3 | 47 | 6 | 4 | ON | 1575 | 0.4376 | 0.83693 | 2.758 | 65.99 | -2.6 | -2.8 |
| | | | | | | OFF | 188 | 0.4398 | 0.83785 | 2.759 | 66.21 | -2.6 | -3.6 |
| 149 | 6 | 3 | 161 | 6 | 4 | ON | 2838 | 0.4481 | 0.83713 | 2.765 | 66.36 | -2.6 | -4.2 |
| | | | | | | OFF | 366 | 0.4198 | 0.83542 | 2.638 | 63.31 | -2.6 | 0.4 |
| 152 | 6 | 1 | 7 | 6 | 4 | ON | 291 | 0.2437 | 0.82856 | 1.531 | 36.75 | -2.6 | -19.1 |
| | | | | | | OFF | 27 | 0.2455 | 0.82871 | 1.543 | 37.82 | -2.6 | -19.3 |
| 152 | 3 | 6 | 129 | 6 | 4 | ON | 1819 | 0.4481 | 0.83713 | 2.765 | 66.36 | -2.6 | -4.8 |
| | | | | | | OFF | 291 | 0.4396 | 0.83789 | 2.762 | 66.29 | -2.6 | -3.1 |
| 153 | 2 | 1 | 37 | 6 | 4 | ON | 2186 | 0.4396 | 0.83789 | 2.762 | 66.29 | -2.6 | -3.2 |
| | | | | | | OFF | 85 | 0.4388 | 0.83783 | 2.757 | 66.17 | -2.6 | -1.6 |
| 154 | 1 | 4 | 28 | 6 | 4 | ON | 2152 | 0.4392 | 0.83786 | 2.768 | 66.23 | -2.6 | -2.4 |
| | | | | | | OFF | 66 | 0.4385 | 0.83788 | 2.755 | 66.12 | -2.6 | -1.8 |
| 154 | 1 | 8 | 26 | 6 | 4 | ON | 2417 | 0.4164 | 0.83513 | 2.616 | 62.79 | -2.6 | 0.3 |
| | | | | | | OFF | 65 | 0.4843 | 0.83411 | 2.548 | 68.96 | -2.6 | 0.8 |
| 158 | 8 | 3 | 45 | 6 | 4 | ON | 2178 | 0.4485 | 0.83717 | 2.768 | 66.43 | -2.2 | -8.4 |
| | | | | | | OFF | 185 | 0.4392 | 0.83786 | 2.759 | 66.22 | -2.2 | 2.4 |
| 159 | 3 | 8 | 16 | 6 | 4 | ON | 1927 | 0.4418 | 0.83728 | 2.776 | 66.62 | -2.2 | -4.2 |
| | | | | | | OFF | 37 | 0.4418 | 0.83728 | 2.776 | 66.62 | -2.2 | -3.9 |
| 164 | 3 | 2 | 48 | 6 | 4 | ON | 1586 | 0.4297 | 0.83626 | 2.788 | 64.88 | -2.2 | -3.9 |
| | | | | | | OFF | 94 | 0.4395 | 0.83789 | 2.762 | 66.28 | -2.2 | -3.2 |
| 165 | 3 | 4 | 17 | 6 | 4 | ON | 1888 | 0.4418 | 0.83728 | 2.776 | 66.62 | -2.2 | -4.5 |
| | | | | | | OFF | 41 | 0.4418 | 0.83728 | 2.776 | 66.62 | -2.2 | -4.3 |
| 165 | 3 | 6 | 45 | 6 | 4 | ON | 2175 | 0.4485 | 0.83717 | 2.768 | 66.42 | -2.2 | -8.4 |
| | | | | | | OFF | 185 | 0.4391 | 0.83785 | 2.759 | 66.21 | -2.2 | 2.3 |
| 166 | 3 | 1 | 7 | 6 | 4 | ON | 286 | 0.2442 | 0.82861 | 1.534 | 36.83 | -2.2 | -22.8 |
| | | | | | | OFF | 28 | 0.2468 | 0.82876 | 1.546 | 37.18 | -2.2 | -23.1 |
| 166 | 9 | 6 | 52 | 6 | 4 | ON | 1935 | 0.4418 | 0.83728 | 2.776 | 66.62 | -2.2 | -4.2 |
| | | | | | | OFF | 118 | 0.4415 | 0.83725 | 2.774 | 66.57 | -2.2 | -2.8 |
| 167 | 9 | 6 | 58 | 6 | 4 | ON | 1876 | 0.4418 | 0.83727 | 2.776 | 66.62 | -2.2 | -4.5 |
| | | | | | | OFF | 134 | 0.4417 | 0.83727 | 2.775 | 66.68 | -2.2 | -3.5 |
| 163 | 4 | 2 | 52 | 6 | 4 | ON | 1616 | 0.4397 | 0.83718 | 2.763 | 66.31 | -2.2 | -3.5 |
| | | | | | | OFF | 119 | 0.4418 | 0.83721 | 2.771 | 66.51 | -2.2 | -4.4 |
| 172 | 4 | 6 | 15 | 6 | 4 | ON | 2481 | 0.4295 | 0.83548 | 2.642 | 63.41 | -2.2 | 2.2 |
| | | | | | | OFF | 38 | 0.4136 | 0.83498 | 2.598 | 62.36 | -2.2 | 2.1 |
| 173 | 8 | 3 | 98 | 6 | 4 | ON | 2988 | 0.3238 | 0.82732 | 2.835 | 48.83 | -2.2 | 0.4 |
| | | | | | | OFF | 319 | 0.2767 | 0.82335 | 1.738 | 41.72 | -2.2 | 0.5 |
| 175 | 9 | 8 | 16 | 6 | 4 | ON | 2861 | 0.4414 | 0.83725 | 2.774 | 66.57 | -2.2 | -2.9 |
| | | | | | | OFF | 36 | 0.4412 | 0.83723 | 2.772 | 66.53 | -2.2 | -2.3 |

RATE ESTIMATE
AFT PAN CAMERA NUMBER 287

| OPN NO | FR | R | A | TUR/ DUR | INST CPS | INST ANG-VEL | SCAN RATE R/SEC | SCAN RATE I/SEC | PCT RATE CALIB | PCT RATE REQD |
|---------|-----|---|------|-------------|-------------|-----------------|--------------------|--------------------|-------------------|------------------|
| 79 8 2 | 6 | 6 | 4 ON | 2038 | 0.4415 | 0.03726 | 2.774 | 66.58 | -1.4 | -4.4 |
| | | | OFF | 12 | 0.4415 | 0.03725 | 2.774 | 66.57 | -1.4 | -4.2 |
| 81 8 8 | 3 | 6 | 4 ON | 13 | 0.1233 | 0.01040 | 0.775 | 18.59 | -1.4 | -260.2 |
| | | | OFF | 24 | 0.1233 | 0.01040 | 0.775 | 18.59 | -1.4 | -262.2 |
| 85 8 2 | 82 | 6 | 4 ON | 1872 | 0.4416 | 0.03726 | 2.775 | 66.60 | -1.4 | -4.8 |
| | | | OFF | 187 | 0.4414 | 0.03724 | 2.773 | 66.56 | -1.4 | -4.1 |
| 86 9 1 | 50 | 6 | 4 ON | 1277 | 0.3860 | 0.03257 | 2.426 | 58.21 | -1.4 | -2.8 |
| | | | OFF | 128 | 0.4113 | 0.03471 | 2.585 | 62.03 | -1.4 | -1.2 |
| 66 9 5 | 17 | 6 | 4 ON | 1768 | 0.4410 | 0.03721 | 2.771 | 66.50 | -1.4 | -3.8 |
| | | | OFF | 39 | 0.4413 | 0.03724 | 2.773 | 66.55 | -1.4 | -4.3 |
| 66 9 6 | 53 | 6 | 4 ON | 1862 | 0.4416 | 0.03726 | 2.775 | 66.59 | -1.4 | -4.7 |
| | | | OFF | 122 | 0.4417 | 0.03727 | 2.775 | 66.61 | -1.4 | -4.8 |
| 67 1 3 | 101 | 6 | 4 ON | 1509 | 0.4291 | 0.03620 | 2.696 | 64.70 | -1.4 | -0.4 |
| | | | OFF | 233 | 0.4408 | 0.03719 | 2.769 | 66.47 | -1.4 | -3.5 |
| 68 1 8 | 11 | 6 | 4 ON | 330 | 0.2411 | 0.02035 | 1.515 | 36.36 | -1.4 | -13.1 |
| | | | OFF | 45 | 0.2411 | 0.02035 | 1.515 | 36.36 | -1.4 | -15.0 |
| 68 9 5 | 85 | 6 | 4 ON | 1781 | 0.4411 | 0.03722 | 2.772 | 66.52 | -1.4 | -4.0 |
| | | | OFF | 193 | 0.4417 | 0.03727 | 2.775 | 66.61 | -1.4 | -4.8 |
| 68 9 8 | 38 | 6 | 4 ON | 2250 | 0.4393 | 0.03706 | 2.760 | 66.24 | -1.4 | -0.5 |
| | | | OFF | 89 | 0.4337 | 0.03660 | 2.725 | 65.40 | -1.4 | 1.2 |
| 69 2 2 | 25 | 6 | 4 ON | 2056 | 0.4414 | 0.03724 | 2.773 | 66.56 | -1.4 | -4.2 |
| | | | OFF | 53 | 0.4410 | 0.03721 | 2.771 | 66.50 | -1.4 | -3.4 |
| 94 6 2 | 19 | 6 | 4 ON | 1827 | 0.4414 | 0.03725 | 2.774 | 66.57 | -1.4 | -4.4 |
| | | | OFF | 45 | 0.4416 | 0.03726 | 2.775 | 66.60 | -1.4 | -4.7 |
| 95 4 1 | 38 | 6 | 4 ON | 1871 | 0.4372 | 0.03689 | 2.747 | 65.93 | -2.3 | -5.7 |
| | | | OFF | 88 | 0.4373 | 0.03690 | 2.748 | 65.95 | -2.3 | -5.8 |
| 98 9 1 | 64 | 6 | 4 ON | 1386 | 0.4036 | 0.03405 | 2.536 | 60.86 | -2.3 | -2.8 |
| | | | OFF | 152 | 0.4294 | 0.03623 | 2.698 | 64.76 | -2.3 | -1.4 |
| 100 9 5 | 75 | 6 | 4 ON | 1643 | 0.4351 | 0.03671 | 2.734 | 65.61 | -2.3 | -2.8 |
| | | | OFF | 171 | 0.4370 | 0.03687 | 2.746 | 65.89 | -2.3 | -5.3 |
| 101 2 2 | 41 | 6 | 4 ON | 2041 | 0.3358 | 0.02833 | 2.110 | 50.64 | -2.3 | -0.0 |
| | | | OFF | 125 | 0.3157 | 0.02663 | 1.983 | 47.60 | -2.3 | 0.7 |
| 102 4 3 | 70 | 6 | 4 ON | 1555 | 0.4317 | 0.03643 | 2.713 | 65.10 | -2.3 | -1.4 |
| | | | OFF | 161 | 0.4361 | 0.03680 | 2.740 | 65.76 | -2.3 | -4.1 |
| 102 4 6 | 54 | 6 | 4 ON | 2025 | 0.4372 | 0.03689 | 2.747 | 65.92 | -2.3 | -5.5 |
| | | | OFF | 125 | 0.4362 | 0.03681 | 2.741 | 65.78 | -2.3 | -3.8 |
| 103 5 6 | 14 | 6 | 4 ON | 1743 | 0.4364 | 0.03682 | 2.742 | 65.81 | -2.3 | -4.5 |
| | | | OFF | 34 | 0.4367 | 0.03685 | 2.744 | 65.85 | -2.3 | -5.0 |
| 103 5 8 | 30 | 6 | 4 ON | 1849 | 0.4371 | 0.03689 | 2.747 | 65.92 | -2.3 | -5.6 |
| | | | OFF | 70 | 0.4373 | 0.03690 | 2.748 | 65.95 | -2.3 | -5.8 |
| 104 6 6 | 26 | 6 | 4 ON | 2230 | 0.4352 | 0.03672 | 2.734 | 65.62 | -2.3 | -2.1 |
| | | | OFF | 63 | 0.4341 | 0.03663 | 2.727 | 65.46 | -2.3 | -0.5 |
| 105 3 1 | 48 | 6 | 4 ON | 1639 | 0.4350 | 0.03671 | 2.733 | 65.60 | -2.3 | -2.8 |
| | | | OFF | 112 | 0.4365 | 0.03683 | 2.742 | 65.82 | -2.3 | -4.6 |
| 106 7 5 | 23 | 6 | 4 ON | 1973 | 0.4373 | 0.03690 | 2.748 | 65.95 | -2.3 | -5.7 |
| | | | OFF | 56 | 0.4371 | 0.03689 | 2.747 | 65.92 | -2.3 | -5.4 |
| 106 7 8 | 31 | 6 | 4 ON | 2302 | 0.4339 | 0.03661 | 2.726 | 65.44 | -2.3 | -0.3 |
| | | | OFF | 74 | 0.4237 | 0.03576 | 2.663 | 63.90 | -2.3 | -0.0 |
| 108 8 5 | 55 | 6 | 4 ON | 2639 | 0.3762 | 0.03175 | 2.364 | 56.74 | -1.9 | 0.1 |

| | | | | | | | | | | | |
|-----|---|---|-----|-----|-----|--------|---------|--------|---------|-------|-------|
| | | | | OFF | 152 | 8.3457 | 8.82917 | 2.172 | 52.13 | -1.9 | -8.3 |
| 118 | 6 | 1 | 8 | 6 | 4 | ON | 1388 | 8.4844 | 8.83413 | 2.541 | 68.99 |
| | | | | OFF | 23 | 8.4888 | 8.83449 | 2.568 | 61.64 | -1.9 | -4.1 |
| 111 | 6 | 1 | 18 | 6 | 4 | ON | 1878 | 8.4394 | 8.83788 | 2.761 | 66.26 |
| | | | | OFF | 44 | 8.4395 | 8.83788 | 2.761 | 66.28 | -1.9 | -5.2 |
| 113 | 5 | 1 | 18 | 6 | 4 | ON | 1349 | 8.3983 | 8.83361 | 2.583 | 68.87 |
| | | | | OFF | 46 | 8.4871 | 8.83435 | 2.558 | 61.39 | -1.9 | -4.6 |
| 115 | 3 | 1 | 86 | 6 | 4 | ON | 1331 | 8.3958 | 8.83333 | 2.482 | 59.56 |
| | | | | OFF | 287 | 8.4315 | 8.83641 | 2.711 | 65.87 | -1.9 | -5.8 |
| 116 | 3 | 4 | 16 | 6 | 4 | ON | 1654 | 8.4374 | 8.83691 | 2.749 | 65.96 |
| | | | | OFF | 39 | 8.4388 | 8.83696 | 2.752 | 66.85 | -1.9 | -3.4 |
| 117 | 3 | 1 | 127 | 6 | 4 | ON | 1429 | 8.4134 | 8.83488 | 2.597 | 62.34 |
| | | | | OFF | 293 | 8.4383 | 8.83699 | 2.754 | 66.18 | -1.9 | -3.9 |
| 118 | 8 | 2 | 48 | 6 | 4 | ON | 1418 | 8.4115 | 8.83472 | 2.585 | 62.85 |
| | | | | OFF | 97 | 8.4279 | 8.83611 | 2.689 | 64.53 | -1.9 | -4.3 |
| 118 | 8 | 4 | 51 | 6 | 4 | ON | 1658 | 8.4375 | 8.83692 | 2.749 | 65.97 |
| | | | | OFF | 117 | 8.4388 | 8.83783 | 2.757 | 66.18 | -1.9 | -3.4 |
| 118 | 8 | 7 | 48 | 6 | 4 | ON | 1972 | 8.4395 | 8.83788 | 2.761 | 66.27 |
| | | | | OFF | 92 | 8.4391 | 8.83785 | 2.759 | 66.22 | -1.9 | -4.8 |
| 119 | 2 | 1 | 60 | 6 | 4 | ON | 1571 | 8.4368 | 8.83679 | 2.739 | 65.74 |
| | | | | OFF | 139 | 8.4382 | 8.83697 | 2.753 | 66.88 | -1.9 | -3.9 |
| 121 | 9 | 6 | 48 | 6 | 4 | ON | 2382 | 8.4223 | 8.83563 | 2.653 | 63.68 |
| | | | | OFF | 98 | 8.4852 | 8.83419 | 2.546 | 61.18 | -1.9 | -4.1 |
| 122 | 5 | 1 | 25 | 6 | 4 | ON | 1985 | 8.4369 | 8.83686 | 2.745 | 65.88 |
| | | | | OFF | 59 | 8.4366 | 8.83684 | 2.743 | 65.84 | -2.4 | -5.4 |
| 124 | 7 | 4 | 28 | 6 | 4 | ON | 2587 | 8.3845 | 8.83245 | 2.416 | 57.99 |
| | | | | OFF | 54 | 8.3733 | 8.83158 | 2.346 | 56.29 | -2.4 | -4.8 |
| 124 | 7 | 7 | 18 | 6 | 4 | ON | 2754 | 8.3498 | 8.82952 | 2.198 | 52.75 |
| | | | | OFF | 54 | 8.3489 | 8.82876 | 2.142 | 51.48 | -2.4 | 8.9 |
| 125 | 5 | 8 | 11 | 6 | 4 | ON | 1849 | 8.4367 | 8.83685 | 2.744 | 65.85 |
| | | | | OFF | 27 | 8.4368 | 8.83686 | 2.745 | 65.87 | -2.4 | 8.6 |
| 127 | 7 | 2 | 17 | 6 | 4 | ON | 1947 | 8.4369 | 8.83687 | 2.745 | 65.88 |
| | | | | OFF | 41 | 8.4369 | 8.83686 | 2.745 | 65.88 | -2.4 | -5.7 |
| 132 | 4 | 1 | 77 | 6 | 4 | ON | 1431 | 8.4113 | 8.83478 | 2.584 | 62.82 |
| | | | | OFF | 179 | 8.4341 | 8.83663 | 2.728 | 65.47 | -2.4 | -5.5 |
| 133 | 4 | 3 | 159 | 6 | 4 | ON | 1996 | 8.4368 | 8.83686 | 2.745 | 65.87 |
| | | | | OFF | 342 | 8.4291 | 8.83621 | 2.696 | 64.71 | -2.4 | -3.3 |
| 134 | 3 | 4 | 58 | 6 | 4 | ON | 1665 | 8.4358 | 8.83678 | 2.733 | 65.68 |
| | | | | OFF | 116 | 8.4363 | 8.83681 | 2.741 | 65.79 | -2.4 | -5.3 |
| 134 | 3 | 7 | 28 | 6 | 4 | ON | 2828 | 8.4367 | 8.83685 | 2.744 | 65.85 |
| | | | | OFF | 48 | 8.4364 | 8.83683 | 2.742 | 65.81 | -2.4 | -5.4 |
| 135 | 1 | 7 | 63 | 6 | 4 | ON | 1842 | 8.4367 | 8.83685 | 2.744 | 65.85 |
| | | | | OFF | 143 | 8.4369 | 8.83686 | 2.745 | 65.88 | -2.4 | -4.4 |
| 135 | 1 | 8 | 25 | 6 | 4 | ON | 2848 | 8.4366 | 8.83684 | 2.743 | 65.84 |
| | | | | OFF | 58 | 8.4362 | 8.83681 | 2.741 | 65.78 | -2.4 | -5.7 |
| 136 | 7 | 4 | 28 | 6 | 4 | ON | 1748 | 8.4368 | 8.83679 | 2.739 | 65.75 |
| | | | | OFF | 48 | 8.4364 | 8.83682 | 2.742 | 65.81 | -2.4 | -4.8 |
| 137 | 9 | 5 | 77 | 6 | 4 | ON | 2429 | 8.4132 | 8.83487 | 2.596 | 62.31 |
| | | | | OFF | 195 | 8.3757 | 8.83178 | 2.361 | 56.66 | -2.7 | -3.9 |
| 138 | 5 | 2 | 14 | 6 | 4 | ON | 2872 | 8.4351 | 8.83672 | 2.734 | 65.62 |
| | | | | OFF | 35 | 8.4349 | 8.83669 | 2.732 | 65.58 | -2.7 | -5.2 |

| | | | | | | | | | | | | | |
|-----|---|---|-----|---|---|-----|------|--------|---------|-------|-------|------|-------|
| 143 | 7 | 2 | 23 | 6 | 4 | ON | 1959 | 0.4356 | 0.03675 | 2.737 | 65.68 | -2.7 | -5.8 |
| | | | | | | OFF | 54 | 0.4354 | 0.03674 | 2.736 | 65.66 | -2.7 | -5.4 |
| 146 | 6 | 3 | 46 | 6 | 4 | ON | 1588 | 0.4324 | 0.03648 | 2.717 | 65.20 | -2.7 | -3.5 |
| | | | | | | OFF | 188 | 0.4341 | 0.03663 | 2.727 | 65.46 | -2.7 | -5.0 |
| 149 | 6 | 3 | 160 | 6 | 4 | ON | 2043 | 0.4353 | 0.03673 | 2.735 | 65.64 | -2.7 | -5.2 |
| | | | | | | OFF | 366 | 0.4165 | 0.03514 | 2.617 | 62.80 | -2.7 | 0.1 |
| 150 | 6 | 1 | 7 | 6 | 4 | ON | 304 | 0.2438 | 0.02058 | 1.532 | 36.77 | -2.7 | -19.5 |
| | | | | | | OFF | 27 | 0.2456 | 0.02073 | 1.543 | 37.04 | -2.7 | -19.8 |
| 150 | 3 | 6 | 128 | 6 | 4 | ON | 1832 | 0.4353 | 0.03673 | 2.735 | 65.64 | -2.7 | -6.0 |
| | | | | | | OFF | 291 | 0.4347 | 0.03668 | 2.731 | 65.55 | -2.7 | -4.0 |
| 153 | 2 | 1 | 37 | 6 | 4 | ON | 2119 | 0.4348 | 0.03669 | 2.732 | 65.56 | -2.7 | -4.1 |
| | | | | | | OFF | 85 | 0.4338 | 0.03660 | 2.726 | 65.41 | -2.7 | -2.5 |
| 154 | 1 | 4 | 28 | 6 | 4 | ON | 2165 | 0.4343 | 0.03664 | 2.729 | 65.49 | -2.7 | -3.3 |
| | | | | | | OFF | 66 | 0.4334 | 0.03657 | 2.723 | 65.36 | -2.7 | -1.8 |
| 154 | 1 | 8 | 26 | 6 | 4 | ON | 2430 | 0.4131 | 0.03486 | 2.596 | 62.29 | -2.7 | 0.1 |
| | | | | | | OFF | 65 | 0.4013 | 0.03386 | 2.521 | 60.51 | -2.7 | -0.1 |
| 158 | 8 | 3 | 45 | 6 | 4 | ON | 2183 | 0.4417 | 0.03727 | 2.776 | 66.61 | -1.0 | 0.2 |
| | | | | | | OFF | 185 | 0.4401 | 0.03713 | 2.765 | 66.36 | -1.0 | 3.0 |
| 159 | 3 | 0 | 16 | 6 | 4 | ON | 1940 | 0.4433 | 0.03740 | 2.785 | 66.84 | -1.0 | -3.7 |
| | | | | | | OFF | 37 | 0.4432 | 0.03740 | 2.785 | 66.84 | -1.0 | -3.4 |
| 164 | 3 | 2 | 40 | 6 | 4 | ON | 1519 | 0.4322 | 0.03647 | 2.715 | 65.17 | -1.0 | -3.5 |
| | | | | | | OFF | 94 | 0.4405 | 0.03717 | 2.768 | 66.43 | -1.0 | -3.2 |
| 165 | 3 | 4 | 17 | 6 | 4 | ON | 1893 | 0.4432 | 0.03740 | 2.785 | 66.83 | -1.0 | -4.1 |
| | | | | | | OFF | 41 | 0.4433 | 0.03740 | 2.785 | 66.84 | -1.0 | -3.8 |
| 165 | 3 | 6 | 45 | 6 | 4 | ON | 2188 | 0.4417 | 0.03727 | 2.775 | 66.60 | -1.0 | 0.2 |
| | | | | | | OFF | 185 | 0.4400 | 0.03712 | 2.764 | 66.35 | -1.0 | 2.9 |
| 166 | 3 | 1 | 7 | 6 | 4 | ON | 299 | 0.2479 | 0.02091 | 1.557 | 37.37 | -1.0 | -21.6 |
| | | | | | | OFF | 28 | 0.2497 | 0.02107 | 1.569 | 37.65 | -1.0 | -21.9 |
| 166 | 9 | 6 | 51 | 6 | 4 | ON | 1948 | 0.4433 | 0.03740 | 2.785 | 66.84 | -1.0 | -3.7 |
| | | | | | | OFF | 118 | 0.4426 | 0.03737 | 2.783 | 66.78 | -1.0 | -2.2 |
| 167 | 9 | 6 | 58 | 6 | 4 | ON | 1889 | 0.4432 | 0.03740 | 2.785 | 66.83 | -1.0 | -4.1 |
| | | | | | | OFF | 134 | 0.4431 | 0.03739 | 2.784 | 66.82 | -1.0 | -2.9 |
| 168 | 4 | 2 | 52 | 6 | 4 | ON | 1629 | 0.4400 | 0.03719 | 2.769 | 66.47 | -1.0 | -3.4 |
| | | | | | | OFF | 119 | 0.4423 | 0.03732 | 2.779 | 66.70 | -1.0 | -4.2 |
| 170 | 4 | 6 | 16 | 6 | 4 | ON | 2414 | 0.4231 | 0.03570 | 2.658 | 63.00 | -1.0 | 3.3 |
| | | | | | | OFF | 38 | 0.4162 | 0.03512 | 2.615 | 62.76 | -1.0 | 3.3 |
| 173 | 8 | 3 | 100 | 6 | 4 | ON | 2921 | 0.3271 | 0.02760 | 2.055 | 49.33 | -1.0 | 2.1 |
| | | | | | | OFF | 319 | 0.2802 | 0.02364 | 1.761 | 42.26 | -1.0 | 2.3 |
| 175 | 9 | 0 | 16 | 6 | 4 | ON | 2074 | 0.4420 | 0.03736 | 2.782 | 66.77 | -1.0 | -2.3 |
| | | | | | | OFF | 36 | 0.4425 | 0.03734 | 2.780 | 66.73 | -1.0 | -1.7 |

RAMP PROFILE

R= 6 A= 4 PERIOD= 3605
R= 0.3518 A= 0.0988

| TUR | PER | CPS | ANG-V |
|-----|-------|--------|---------|
| 0 | 4.142 | 0.2414 | 0.02184 |
| 100 | 4.130 | 0.2422 | 0.02190 |
| 200 | 4.078 | 0.2452 | 0.02218 |
| 300 | 3.990 | 0.2506 | 0.02267 |
| 400 | 3.871 | 0.2583 | 0.02337 |

| | | | |
|------|-------|--------|---------|
| 588 | 3.729 | 8.2681 | 8.82425 |
| 688 | 3.573 | 8.2799 | 8.82531 |
| 788 | 3.418 | 8.2932 | 8.82652 |
| 888 | 3.246 | 8.3888 | 8.82786 |
| 988 | 3.887 | 8.3248 | 8.82938 |
| 1088 | 2.936 | 8.3486 | 8.83881 |
| 1188 | 2.795 | 8.3578 | 8.83236 |
| 1288 | 2.637 | 8.3793 | 8.83438 |
| 1388 | 2.496 | 8.4887 | 8.83624 |
| 1488 | 2.377 | 8.4287 | 8.83885 |
| 1588 | 2.281 | 8.4385 | 8.83966 |
| 1688 | 2.224 | 8.4496 | 8.84866 |
| 1788 | 2.218 | 8.4588 | 8.84877 |
| 1888 | 2.214 | 8.4516 | 8.84884 |
| 1988 | 2.213 | 8.4519 | 8.84887 |
| 2088 | 2.213 | 8.4518 | 8.84886 |
| 2188 | 2.216 | 8.4513 | 8.84882 |
| 2288 | 2.221 | 8.4583 | 8.84873 |
| 2388 | 2.238 | 8.4468 | 8.84841 |
| 2488 | 2.323 | 8.4384 | 8.83893 |
| 2588 | 2.438 | 8.4115 | 8.83722 |
| 2688 | 2.559 | 8.3988 | 8.83534 |
| 2788 | 2.711 | 8.3689 | 8.83337 |
| 2888 | 2.868 | 8.3497 | 8.83163 |
| 2988 | 3.885 | 8.3327 | 8.83889 |
| 3088 | 3.161 | 8.3164 | 8.82861 |
| 3188 | 3.323 | 8.3889 | 8.82722 |
| 3288 | 3.487 | 8.2868 | 8.82594 |
| 3388 | 3.648 | 8.2741 | 8.82479 |
| 3488 | 3.798 | 8.2633 | 8.82381 |
| 3588 | 3.938 | 8.2545 | 8.82381 |
| 3688 | 4.835 | 8.2478 | 8.82241 |
| 3788 | 4.187 | 8.2435 | 8.82282 |
| 3888 | 4.142 | 8.2414 | 8.82184 |

CLOCK CORRELATION SUMMARY
 ORDER FIT ONE

| SYS TIME I/P | CL TIME I/P | COMP SYS TX | DELTA ST | REV | STA |
|----------------|-----------------|-----------------|----------|-----|-----|
| 0.346499780 85 | 8.545666780 85 | 2.3464997690 85 | -8.8869 | 8 | |
| 8.488192630 85 | 8.5993596780 85 | 8.4881927340 85 | -8.8184 | 9 | |
| 8.795682770 85 | 8.9947698180 85 | 8.7956828360 85 | -8.8866 | 16 | |
| 8.348844130 85 | 8.1411211180 86 | 8.3488441660 85 | -8.8836 | 24 | |
| 8.796631810 85 | 8.1859798890 86 | 8.7966318330 85 | -8.8823 | 32 | |
| 8.348238580 85 | 8.2275397670 86 | 8.3482385730 85 | 8.8887 | 48 | |
| 8.743782480 85 | 8.2678869560 86 | 8.7437824240 85 | 8.8856 | 47 | |
| 8.348738640 85 | 8.3139985750 86 | 8.3487385690 85 | 8.8871 | 56 | |
| 8.797763380 85 | 8.3588938550 86 | 8.7977633260 85 | 8.8854 | 64 | |
| 8.348877570 85 | 8.4884844760 86 | 8.3488774960 85 | 8.8874 | 72 | |
| 8.743394880 85 | 8.4398561310 86 | 8.7433948880 85 | 8.8872 | 79 | |
| 8.348626530 85 | 8.4867793790 86 | 8.3486264430 85 | 8.8887 | 88 | |

0.742981130 05 0.5262148480 06 0.7429810950 05 0.8835 95
 0.348393480 05 0.3628517180 05 0.3483934800 05 0.8888 184
 0.742524380 05 0.7569827180 05 0.7425243620 05 0.8818 111
 0.347689460 05 0.1226867890 06 0.3476894970 05 -0.8837 128
 0.748811490 05 0.1619269980 06 0.7488114690 05 0.8821 127
 0.345758280 05 0.2888216690 06 0.3457582140 05 -0.8814 136
 0.739566430 05 0.2482825840 06 0.7395665260 05 -0.8896 143
 0.343298360 05 0.2949756940 06 0.3432983810 05 -0.8821 152
 0.736868580 05 0.3343319230 06 0.7368686330 05 -0.8853 159
 0.341115680 05 0.3811574380 06 0.3411156580 05 -0.8858 168
 A0=-0.19916687840 05 A1=0.999999837380 88
 SIGMA=0.88577 NO. POINTS= 22
 RATIO OF CLOCK TIME TO SYS TIME= 0.188888896270 81

ORDER FIT TWO

| SYS TIME I/P | CL TIME I/P | COMP SYS TM | DELTA ST | REV | STA |
|------------------------------|-----------------------|-----------------|----------|-----|-----|
| 0.346499780 05 | 0.5456667880 05 | 0.3464996880 05 | 0.8812 | 8 | |
| 0.488192630 05 | 0.5993596780 05 | 0.4881926560 05 | -0.8826 | 9 | |
| 0.795682770 05 | 0.9947698180 05 | 0.7956827830 05 | -0.8813 | 16 | |
| 0.348844130 05 | 0.1411211180 06 | 0.3488441360 05 | -0.8886 | 24 | |
| 0.796631810 05 | 0.1859798890 06 | 0.7966318250 05 | -0.8815 | 32 | |
| 0.348238580 05 | 0.2275397670 06 | 0.3482385830 05 | -0.8883 | 48 | |
| 0.743782480 05 | 0.2678869560 06 | 0.7437824490 05 | 0.8831 | 47 | |
| 0.348738640 05 | 0.3139985750 06 | 0.3487386880 05 | 0.8832 | 56 | |
| 0.797763380 05 | 0.3588938550 06 | 0.7977633740 05 | 0.8886 | 64 | |
| 0.348877570 05 | 0.4884244760 06 | 0.3488775800 05 | 0.8828 | 72 | |
| 0.743394880 05 | 0.4398561310 06 | 0.7433948660 05 | 0.8814 | 79 | |
| 0.348626530 05 | 0.4867793790 06 | 0.3486265810 05 | 0.8829 | 88 | |
| 0.742981130 05 | 0.5262148480 06 | 0.7429811510 05 | -0.8821 | 95 | |
| 0.348393480 05 | 0.3628517180 05 | 0.3483934580 05 | 0.8838 | 184 | |
| 0.742524380 05 | 0.7569827180 05 | 0.7425244840 05 | -0.8824 | 111 | |
| 0.347689460 05 | 0.1226867890 06 | 0.3476895270 05 | -0.8867 | 128 | |
| 0.748811490 05 | 0.1619269980 06 | 0.7488114860 05 | 0.8884 | 127 | |
| 0.345758280 05 | 0.2888216690 06 | 0.3457582120 05 | -0.8812 | 136 | |
| 0.739566430 05 | 0.2482825840 06 | 0.7395665850 05 | -0.8875 | 143 | |
| 0.343298360 05 | 0.2949756940 06 | 0.3432983350 05 | 0.8825 | 152 | |
| 0.736868580 05 | 0.3343319230 06 | 0.7368685630 05 | 0.8817 | 159 | |
| 0.341115680 05 | 0.3811574380 06 | 0.3411155560 05 | 0.8844 | 168 | |
| A0=-0.19916699850 05 | A1=0.9999999794350 88 | | | | |
| A2=-0.87273954792550-13 | | | | | |
| SIGMA=0.88293 NO. POINTS= 22 | | | | | |

CLOCK OPERATIONS

F&D PAN CAMERA NUMBER 286

| OPN NO | FR | H | M | S | DEC |
|--------|-----|----|-----|----------|--------|
| 79 | 8 2 | 5 | ON | 22 44 13 | 448169 |
| | | | OFF | 28 44 25 | 448181 |
| 81 | 8 8 | 3 | ON | 23 37 4 | 458548 |
| | | | OFF | 23 37 28 | 458564 |
| 85 | 8 2 | 82 | ON | 5 41 7 | 472384 |

BINARY EQUIVALENT
 110100011110001110010000101000
 110100011110001010000100001000
 11010110110101011000111100000
 1101011011011000011110100000
 11100001010000000001000000000

| | | | | | | | | |
|-----|---|---|-----|----|----|----|--------|---------------------------------|
| | | | OFF | 5 | 44 | 14 | 472571 | 11100001010101101110001111000 |
| 86 | 9 | 1 | ON | 7 | 1 | 5 | 477181 | 11100011100010011010001001000 |
| | | | OFF | 7 | 3 | 13 | 477309 | 11100011100110010100001001000 |
| 86 | 9 | 5 | ON | 7 | 9 | 16 | 477672 | 11100011110001011001001000000 |
| | | | OFF | 7 | 9 | 55 | 477711 | 11100011110010100101010011000 |
| 86 | 9 | 6 | ON | 7 | 18 | 50 | 477766 | 11100011110100010000101110000 |
| | | | OFF | 7 | 12 | 52 | 477888 | 11100011110111111111100000000 |
| 87 | 1 | 3 | ON | 8 | 34 | 50 | 482007 | 1110011000011100000110011011000 |
| | | | OFF | 8 | 38 | 43 | 483040 | 11100110010101001101100000000 |
| 88 | 1 | 0 | ON | 9 | 45 | 5 | 487022 | 111010000001110101110110110000 |
| | | | OFF | 9 | 45 | 50 | 487067 | 1110100000100000000110101111000 |
| 88 | 9 | 5 | ON | 10 | 9 | 17 | 488473 | 1110100001110110000000110101600 |
| | | | OFF | 10 | 12 | 30 | 488666 | 1110100100000000111001110010000 |
| 88 | 9 | 8 | ON | 10 | 17 | 6 | 488942 | 111010010010010101001110110000 |
| | | | OFF | 10 | 19 | 35 | 489031 | 111010010011000000010101011000 |
| 89 | 2 | 2 | ON | 11 | 43 | 47 | 494143 | 111010111010000000011000011000 |
| | | | OFF | 11 | 44 | 45 | 494201 | 11101011101001110100010101000 |
| 94 | 6 | 2 | ON | 19 | 9 | 27 | 520884 | 111110000011000000111100100000 |
| | | | OFF | 19 | 10 | 12 | 520929 | 111110000011001011111011101000 |
| 95 | 4 | 1 | ON | 20 | 42 | 5 | 526322 | 111110101111100000100101010000 |
| | | | OFF | 20 | 41 | 33 | 526410 | 111110110000000110000100010000 |
| 98 | 9 | 1 | ON | 1 | 1 | 38 | 5144 | 00000010011100111110111000000 |
| | | | OFF | 1 | 4 | 10 | 5296 | 00000010100000110011111000000 |
| 100 | 9 | 5 | ON | 4 | 5 | 40 | 16106 | 000000111101101111101010010000 |
| | | | OFF | 4 | 8 | 31 | 16357 | 000000111110011001011010001000 |
| 101 | 2 | 2 | ON | 5 | 55 | 30 | 22776 | 00001010110111000100011000000 |
| | | | OFF | 5 | 57 | 35 | 22901 | 00001010111010111000100001000 |
| 102 | 4 | 3 | ON | 7 | 3 | 56 | 26082 | 00001100110100010111111010000 |
| | | | OFF | 7 | 6 | 37 | 27043 | 00001100111001010010010111000 |
| 102 | 4 | 6 | ON | 7 | 11 | 46 | 27352 | 00001101000010101101111000000 |
| | | | OFF | 7 | 13 | 51 | 27477 | 00001101000110100010000001000 |
| 103 | 5 | 6 | ON | 8 | 36 | 57 | 32463 | 00001111011110101100010011000 |
| | | | OFF | 8 | 37 | 31 | 32497 | 00001111011111101110101101000 |
| 103 | 5 | 8 | ON | 8 | 38 | 43 | 32569 | 00001111100001111011010101000 |
| | | | OFF | 8 | 39 | 53 | 32639 | 0000111110010000010000011000 |
| 104 | 6 | 6 | ON | 10 | 14 | 55 | 38340 | 00010010010010000010110100000 |
| | | | OFF | 10 | 15 | 58 | 38403 | 0001001001001111110110111000 |
| 105 | 3 | 1 | ON | 11 | 34 | 54 | 43140 | 00010100100100100001110100000 |
| | | | OFF | 11 | 36 | 46 | 43252 | 00010100100111111100100100000 |
| 106 | 7 | 5 | ON | 13 | 10 | 20 | 48066 | 00010111010011010001011010000 |
| | | | OFF | 13 | 11 | 16 | 48922 | 00010111010100111110110010000 |
| 106 | 7 | 8 | ON | 13 | 15 | 49 | 49194 | 00010111011101010010000010000 |
| | | | OFF | 13 | 17 | 3 | 49268 | 00010111011111100001010010000 |
| 106 | 8 | 5 | ON | 16 | 21 | 8 | 60314 | 00011100110000101000110010000 |
| | | | OFF | 16 | 23 | 40 | 60466 | 00011100110101010001101010000 |
| 110 | 6 | 1 | ON | 19 | 0 | 31 | 69877 | 00100001010100011110100001000 |
| | | | OFF | 19 | 0 | 54 | 69900 | 0010000101010100101101100000 |
| 111 | 6 | 1 | ON | 20 | 38 | 38 | 75764 | 00100100001000001000100100000 |
| | | | OFF | 20 | 39 | 22 | 75808 | 00100100001001011110100000000 |
| 113 | 5 | 1 | ON | 23 | 29 | 29 | 86015 | 00101001000000111110000011000 |
| | | | OFF | 23 | 30 | 15 | 86061 | 0010100100001001011111001000 |

| | | | | | | | | | |
|-----|---|---|-----|-----|----|----|----|--------|--------------------------------|
| 115 | 3 | 1 | 86 | ON | 2 | 28 | 53 | 96779 | 00101110001001011101011111000 |
| | | | | OFF | 2 | 32 | 20 | 96986 | 00101110001111110001110010000 |
| 116 | 3 | 4 | 16 | ON | 4 | 4 | 6 | 102492 | 00110000110111110011101100000 |
| | | | | OFF | 4 | 4 | 45 | 102531 | 00110000111000111111110111000 |
| 117 | 3 | 1 | 120 | ON | 5 | 38 | 9 | 107655 | 001100110101010101011101011000 |
| | | | | OFF | 5 | 35 | 2 | 107948 | 00110011011110010011111100000 |
| 118 | 8 | 2 | 40 | ON | 6 | 59 | 46 | 113032 | 00110101111001011101101000000 |
| | | | | OFF | 7 | 1 | 23 | 113129 | 00110101111100011011000101000 |
| 118 | 8 | 4 | 51 | ON | 7 | 3 | 47 | 113272 | 00110110000000110010011000000 |
| | | | | OFF | 7 | 5 | 44 | 113389 | 00110110000100010110111001000 |
| 118 | 8 | 7 | 40 | ON | 7 | 9 | 0 | 113586 | 00110110001010010111101010000 |
| | | | | OFF | 7 | 10 | 32 | 113678 | 00110110001101001011010110000 |
| 119 | 2 | 1 | 60 | ON | 8 | 32 | 8 | 110574 | 00111000100010100101110110000 |
| | | | | OFF | 8 | 34 | 27 | 110713 | 00111000100110110101010101000 |
| 121 | 9 | 6 | 41 | ON | 11 | 45 | 17 | 130163 | 00111110000100010001000111000 |
| | | | | OFF | 11 | 46 | 55 | 130261 | 00111110000111010000000001000 |
| 122 | 5 | 1 | 25 | ON | 13 | 8 | 28 | 135154 | 01000000011100100100101010000 |
| | | | | OFF | 13 | 9 | 27 | 135213 | 01000000011110010111111001000 |
| 124 | 7 | 4 | 20 | ON | 16 | 18 | 7 | 146533 | 01000101110111110101010001000 |
| | | | | OFF | 16 | 19 | 1 | 146587 | 01000101111001011110101111000 |
| 124 | 7 | 7 | 18 | ON | 16 | 26 | 53 | 146699 | 01000101111100111001011111000 |
| | | | | OFF | 16 | 21 | 47 | 146753 | 01000101111110100010111101000 |
| 125 | 5 | 0 | 11 | ON | 17 | 35 | 37 | 151183 | 01001000000101101111010011000 |
| | | | | OFF | 17 | 36 | 4 | 151210 | 01001000000110100100000010000 |
| 127 | 7 | 2 | 17 | ON | 20 | 36 | 51 | 162057 | 01001101010001100101100101000 |
| | | | | OFF | 20 | 37 | 32 | 162098 | 01001101010001011010110101000 |
| 130 | 4 | 1 | 77 | ON | 0 | 57 | 35 | 177701 | 01010100101111000000010001000 |
| | | | | OFF | 1 | 0 | 34 | 177800 | 01010100110100011101111000000 |
| 133 | 4 | 3 | 151 | ON | 5 | 36 | 19 | 194425 | 0101100101101011000010101000 |
| | | | | OFF | 5 | 42 | 1 | 194767 | 01311100110111110100010011000 |
| 134 | 3 | 4 | 51 | ON | 7 | 0 | 33 | 199479 | 01011111000111100111011011000 |
| | | | | OFF | 7 | 2 | 29 | 199595 | 01011111001011001001111111000 |
| 134 | 3 | 7 | 21 | ON | 7 | 6 | 36 | 199841 | 01011111010010101010011101000 |
| | | | | OFF | 7 | 7 | 24 | 199889 | 01011111010100001000001101000 |
| 135 | 1 | 7 | 63 | ON | 8 | 33 | 16 | 205042 | 01100001110001011000101010000 |
| | | | | OFF | 8 | 35 | 39 | 205105 | 01100001110101101111111010000 |
| 135 | 1 | 8 | 25 | ON | 8 | 36 | 42 | 205248 | 01100001110111101011000000000 |
| | | | | OFF | 8 | 37 | 40 | 205306 | 01100001111001011100010010000 |
| 136 | 7 | 4 | 20 | ON | 10 | 1 | 27 | 210333 | 01100100010010110110101001000 |
| | | | | OFF | 10 | 2 | 15 | 210381 | 01100100010100010100011001000 |
| 137 | 9 | 5 | 79 | ON | 11 | 42 | 34 | 216400 | 01100111001100000000010000000 |
| | | | | OFF | 11 | 45 | 49 | 216595 | 01100111010001111101000111000 |
| 138 | 5 | 2 | 15 | ON | 13 | 6 | 23 | 221429 | 01101001100101011110100001000 |
| | | | | OFF | 13 | 6 | 58 | 221464 | 01101001100110100010111000000 |
| 143 | 7 | 2 | 23 | ON | 20 | 33 | 15 | 240241 | 01110110010111101101101101000 |
| | | | | OFF | 20 | 34 | 9 | 240295 | 01110110011001010111001011000 |
| 146 | 6 | 3 | 47 | ON | 0 | 56 | 15 | 264221 | 01111101111001010010000001000 |
| | | | | OFF | 0 | 58 | 3 | 264129 | 01111101111100100100111101000 |
| 149 | 6 | 3 | 161 | ON | 5 | 32 | 58 | 200624 | 10000101110011111101110000000 |
| | | | | OFF | 5 | 39 | 4 | 200990 | 10000101111111001000100110000 |
| 150 | 6 | 1 | 7 | ON | 6 | 33 | 44 | 204270 | 10000111100011001110110110000 |

| | | | | | | | | | |
|-----|---|---|-----|-----|----|----|----|--------|-------------------------------|
| 150 | 3 | 6 | 129 | OFF | 6 | 34 | 11 | 284297 | 10000111100100000011100101000 |
| | | | | ON | 6 | 59 | 12 | 285797 | 10001000010001110101010001000 |
| | | | | OFF | 7 | 4 | 3 | 286088 | 1000100001010101101101000000 |
| 153 | 2 | 1 | 37 | ON | 11 | 33 | 6 | 302232 | 10010000000111011000111000000 |
| | | | | OFF | 11 | 34 | 31 | 302317 | 10010000001001111110111001000 |
| 154 | 1 | 4 | 28 | ON | 13 | 3 | 35 | 307661 | 10010010101101000100011001000 |
| | | | | OFF | 13 | 4 | 41 | 307727 | 10010010101111000101010011000 |
| 154 | 1 | 8 | 26 | ON | 13 | 8 | 0 | 307926 | 10010010110101001001111110000 |
| | | | | OFF | 13 | 9 | 5 | 307991 | 10010010110111001000111011000 |
| 158 | 8 | 3 | 45 | ON | 19 | 3 | 33 | 329259 | 10011101000000001011111111000 |
| | | | | OFF | 19 | 5 | 18 | 329364 | 10011101000011011001000100000 |
| 159 | 3 | 0 | 16 | ON | 20 | 29 | 11 | 334397 | 10011111011100111111001001000 |
| | | | | OFF | 20 | 29 | 40 | 334434 | 10011111011110000111011010000 |
| 164 | 3 | 2 | 40 | ON | 3 | 50 | 34 | 360879 | 10101100000101001001110011000 |
| | | | | OFF | 3 | 52 | 8 | 360973 | 10101100001000000001011001000 |
| 165 | 3 | 4 | 17 | ON | 5 | 26 | 27 | 366632 | 10101110110100101110001000000 |
| | | | | OFF | 5 | 27 | 8 | 366673 | 10101110110101111110001101000 |
| 165 | 3 | 6 | 45 | ON | 5 | 31 | 21 | 366926 | 10101110111101101100010110000 |
| | | | | OFF | 5 | 33 | 6 | 367031 | 10101111000000111001011011000 |
| 166 | 3 | 1 | 7 | ON | 6 | 29 | 33 | 370419 | 10110000101000010010100111000 |
| | | | | OFF | 6 | 30 | 1 | 370447 | 10110000101001001001010011000 |
| 166 | 9 | 6 | 52 | ON | 6 | 57 | 2 | 372067 | 10110001011010100101010111000 |
| | | | | OFF | 6 | 59 | 0 | 372185 | 10110001011110001011110101000 |
| 167 | 9 | 6 | 58 | ON | 8 | 25 | 41 | 377386 | 10110011111100111010000010000 |
| | | | | OFF | 8 | 27 | 55 | 377520 | 10110100000000111111110000000 |
| 168 | 4 | 2 | 52 | ON | 9 | 51 | 0 | 382506 | 10110110011001001010000010000 |
| | | | | OFF | 9 | 52 | 59 | 382625 | 10110110011100110010011101000 |
| 170 | 4 | 6 | 15 | ON | 13 | 3 | 24 | 394049 | 10111011111001011010111101000 |
| | | | | OFF | 13 | 4 | 2 | 394087 | 10111011111010100101001011000 |
| 173 | 8 | 3 | 98 | ON | 17 | 40 | 46 | 410692 | 11000011110101010100110100000 |
| | | | | OFF | 17 | 46 | 5 | 411011 | 11000011111110000111101110000 |
| 175 | 9 | 0 | 16 | ON | 20 | 25 | 55 | 420601 | 11001000100011101110010101000 |
| | | | | OFF | 20 | 26 | 31 | 420637 | 11001000100100110100101001000 |

CLOCK OPERATIONS

AFT PAN CAMERA NUMBER 207

| OPN NO | FR | | H | M | S | DEC | BINARY EQUIVALENT | | |
|--------|----|---|-----|-----|----|-----|-------------------|--------|-------------------------------|
| 79 | 8 | 2 | 6 | ON | 20 | 44 | 26 | 440182 | 11010001111001010010011110000 |
| | | | | OFF | 20 | 44 | 38 | 440194 | 11010001111001101001111010000 |
| 01 | 0 | 0 | 3 | ON | 23 | 37 | 17 | 450553 | 11010110110101110010010101000 |
| | | | | OFF | 23 | 37 | 41 | 450577 | 11010110110110100001001101000 |
| 05 | 8 | 2 | 62 | ON | 5 | 41 | 20 | 472397 | 11100001010000011010011001000 |
| | | | | OFF | 5 | 44 | 27 | 472584 | 11100001010110000111101000000 |
| 06 | 9 | 1 | 50 | ON | 7 | 1 | 18 | 477195 | 11100011100010110101011111000 |
| | | | | OFF | 7 | 3 | 26 | 477323 | 11100011100110101111011111000 |
| 06 | 9 | 5 | 17 | ON | 7 | 9 | 29 | 477686 | 11100011110001110100011110000 |
| | | | | OFF | 7 | 10 | 8 | 477725 | 11100011110011000000101001000 |
| 06 | 9 | 6 | 53 | ON | 7 | 11 | 3 | 477779 | 11100011110100101010000111000 |
| | | | | OFF | 7 | 13 | 5 | 477901 | 11100011111000011000011001000 |
| 07 | 1 | 3 | 101 | ON | 8 | 35 | 3 | 482820 | 11100110001110011111110100000 |

| | | | | | | | | | |
|-----|---|---|-----|-----|----|----|----|--------|--------------------------------|
| 88 | 1 | 8 | 11 | OFF | 8 | 38 | 56 | 483253 | 11100110010101100110111001000 |
| | | | | ON | 9 | 45 | 18 | 487035 | 111010000001111001000001111000 |
| | | | | OFF | 9 | 46 | 3 | 487080 | 11101000010000100000001000000 |
| 88 | 9 | 5 | 85 | ON | 10 | 9 | 30 | 488487 | 11101000111011011100001011000 |
| | | | | OFF | 10 | 12 | 43 | 488688 | 11101001000001010101001000000 |
| 88 | 9 | 8 | 38 | ON | 10 | 17 | 19 | 488955 | 11101001001001101110001111000 |
| | | | | OFF | 10 | 18 | 48 | 489044 | 11101001001100011100000100000 |
| 69 | 2 | 2 | 25 | ON | 11 | 44 | 8 | 494157 | 11101011101000011110011001000 |
| | | | | OFF | 11 | 44 | 58 | 494215 | 11101011101010001111101011000 |
| 94 | 6 | 2 | 19 | ON | 19 | 9 | 40 | 520897 | 11111000011000100000111101000 |
| | | | | OFF | 19 | 10 | 25 | 520942 | 11111000011001111000110110000 |
| 95 | 4 | 1 | 38 | ON | 20 | 40 | 18 | 526335 | 11111010111110011110000011000 |
| | | | | OFF | 20 | 41 | 46 | 526423 | 11111011000001001001111011000 |
| 99 | 9 | 1 | 64 | ON | 1 | 1 | 51 | 5157 | 00000010011101011000010001000 |
| | | | | OFF | 1 | 4 | 23 | 5389 | 00000010100010000001001001000 |
| 100 | 9 | 5 | 75 | ON | 4 | 5 | 53 | 16199 | 00000111101110010110101011000 |
| | | | | OFF | 4 | 8 | 44 | 16370 | 00000111110011100100101010000 |
| 101 | 2 | 2 | 41 | ON | 5 | 55 | 43 | 22790 | 00001010110111011111101110000 |
| | | | | OFF | 5 | 57 | 48 | 22915 | 00001010111011010011110111000 |
| 102 | 4 | 3 | 70 | ON | 7 | 4 | 9 | 26895 | 00001100110100110001010011000 |
| | | | | OFF | 7 | 6 | 50 | 27256 | 00001100111001101011110000000 |
| 102 | 4 | 6 | 54 | ON | 7 | 11 | 59 | 27365 | 00001101000011000111010001000 |
| | | | | OFF | 7 | 14 | 4 | 27490 | 00001101000110111011011010000 |
| 103 | 5 | 6 | 14 | ON | 8 | 37 | 10 | 32476 | 00001111011111000101101100000 |
| | | | | OFF | 8 | 37 | 44 | 32510 | 00001111100000001000000110000 |
| 103 | 5 | 8 | 30 | ON | 8 | 38 | 56 | 32582 | 00001111100010010100101110000 |
| | | | | OFF | 8 | 40 | 6 | 32652 | 00001111100100011101011100000 |
| 104 | 6 | 6 | 26 | ON | 10 | 15 | 8 | 38354 | 000100100100100111110001010000 |
| | | | | OFF | 10 | 16 | 11 | 38417 | 00010010010100011001001101000 |
| 105 | 3 | 1 | 48 | ON | 11 | 35 | 7 | 43153 | 00010100100100011001001101000 |
| | | | | OFF | 11 | 36 | 59 | 43265 | 00010100100100001010111101000 |
| 106 | 7 | 5 | 23 | ON | 13 | 10 | 33 | 48879 | 00010111010011101010110011000 |
| | | | | OFF | 13 | 11 | 29 | 48935 | 00010111010101011000001011000 |
| 106 | 7 | 8 | 31 | ON | 13 | 16 | 2 | 49200 | 00010111011101101101011000000 |
| | | | | OFF | 13 | 17 | 16 | 49202 | 00010111011111111110111101000 |
| 108 | 8 | 5 | 55 | ON | 16 | 21 | 21 | 60327 | 00011100110001000010001011000 |
| | | | | OFF | 16 | 23 | 53 | 60479 | 000111001101011010111000011000 |
| 110 | 6 | 1 | 8 | ON | 19 | 2 | 44 | 69890 | 00100001010100110111111010000 |
| | | | | OFF | 19 | 1 | 7 | 69913 | 00100001010101100100110101000 |
| 111 | 6 | 1 | 18 | ON | 20 | 38 | 51 | 75777 | 00100100001000100001111101000 |
| | | | | OFF | 20 | 39 | 35 | 75821 | 00100100001001110111111001000 |
| 113 | 5 | 1 | 18 | ON | 23 | 29 | 42 | 86020 | 00101001000001010111011100000 |
| | | | | OFF | 23 | 30 | 28 | 86074 | 00101001000001011000101001000 |
| 115 | 3 | 1 | 66 | ON | 2 | 29 | 6 | 96792 | 00101110001001110110111000000 |
| | | | | OFF | 2 | 32 | 33 | 96999 | 00101110010000001011001011000 |
| 116 | 3 | 4 | 16 | ON | 4 | 4 | 19 | 102505 | 00110000111000001101000101000 |
| | | | | OFF | 4 | 4 | 58 | 102544 | 00110000111001011001010000000 |
| 117 | 3 | 1 | 127 | ON | 5 | 30 | 22 | 107668 | 00110011010101110001000100000 |
| | | | | OFF | 5 | 35 | 15 | 107961 | 00110011011110101101010101000 |
| 118 | 8 | 2 | 40 | ON | 6 | 59 | 59 | 113045 | 00110101111001110111000001000 |
| | | | | OFF | 7 | 1 | 36 | 113142 | 00110101111100110100011110000 |

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| | | | | | | | | | |
|-----|---|---|-----|-----|----|----|----|--------|--------------------------------|
| 118 | 8 | 4 | 51 | ON | 7 | 4 | 8 | 113286 | 0011010000001001101101110000 |
| | | | | OFF | 7 | 5 | 57 | 113483 | 0011010000100110010001111000 |
| 118 | 8 | 7 | 48 | ON | 7 | 9 | 13 | 113599 | 00110100001010110001000011000 |
| | | | | OFF | 7 | 10 | 45 | 113691 | 001101000011011001000101111000 |
| 119 | 2 | 1 | 68 | ON | 8 | 32 | 21 | 118587 | 00111000100010111111001111000 |
| | | | | OFF | 8 | 34 | 40 | 118726 | 00111000100111001110101110000 |
| 121 | 9 | 6 | 48 | ON | 11 | 45 | 38 | 130176 | 0011111000010010101000000000 |
| | | | | OFF | 11 | 47 | 8 | 130274 | 00111110000111101001011010000 |
| 122 | 5 | 1 | 25 | ON | 13 | 8 | 41 | 135167 | 01000000011100111110000011000 |
| | | | | OFF | 13 | 9 | 40 | 135226 | 0100000001110110001010010000 |
| 124 | 7 | 4 | 28 | ON | 16 | 18 | 28 | 146546 | 01000101111000001110101010000 |
| | | | | OFF | 16 | 19 | 14 | 146688 | 01000101111001111000001000000 |
| 124 | 7 | 7 | 18 | ON | 16 | 21 | 6 | 146712 | 01000101111101010010111000000 |
| | | | | OFF | 16 | 22 | 8 | 146766 | 01000101111110111100010110000 |
| 125 | 5 | 8 | 11 | ON | 17 | 35 | 58 | 151196 | 01001000000110001000101100000 |
| | | | | OFF | 17 | 36 | 17 | 151223 | 01001000000110111101011011000 |
| 127 | 7 | 2 | 17 | ON | 20 | 37 | 4 | 162070 | 01001101010001111110111110000 |
| | | | | OFF | 20 | 37 | 45 | 162111 | 01001101010011001111000011000 |
| 130 | 4 | 1 | 77 | ON | 8 | 57 | 48 | 177714 | 0101000101111011001101010000 |
| | | | | OFF | 1 | 8 | 47 | 177893 | 01010100110100110111010001000 |
| 133 | 4 | 3 | 158 | ON | 5 | 36 | 32 | 194438 | 01011100101101110001101110000 |
| | | | | OFF | 5 | 42 | 14 | 194788 | 01011100111000001101101100000 |
| 134 | 3 | 4 | 58 | ON | 7 | 2 | 46 | 199492 | 01011110010000000001101000000 |
| | | | | OFF | 7 | 2 | 42 | 199688 | 01011110010111000110110000000 |
| 134 | 3 | 7 | 28 | ON | 7 | 6 | 49 | 199855 | 0101111010011000101110011000 |
| | | | | OFF | 7 | 7 | 37 | 199903 | 0101111010100100011100011000 |
| 135 | 1 | 7 | 63 | ON | 8 | 33 | 29 | 205055 | 01100001110001110010000011000 |
| | | | | OFF | 8 | 35 | 52 | 205198 | 01100001110110001001010110000 |
| 135 | 1 | 8 | 25 | ON | 8 | 36 | 55 | 205261 | 01100001111000000100011001000 |
| | | | | OFF | 8 | 37 | 53 | 205319 | 0110000111100111010101011000 |
| 136 | 7 | 4 | 28 | ON | 10 | 1 | 48 | 210347 | 01100100010011010001111111000 |
| | | | | OFF | 10 | 2 | 28 | 210395 | 01100100010100101111101111000 |
| 137 | 9 | 5 | 77 | ON | 11 | 42 | 47 | 216413 | 01100111001100011001101001000 |
| | | | | OFF | 11 | 46 | 2 | 216608 | 01100111010010010110100000000 |
| 138 | 5 | 2 | 14 | ON | 13 | 6 | 36 | 221442 | 01101001100101110111111010000 |
| | | | | OFF | 13 | 7 | 11 | 221477 | 01101001100110111100010001000 |
| 143 | 7 | 2 | 23 | ON | 20 | 33 | 28 | 248254 | 01110110011000000111000110000 |
| | | | | OFF | 20 | 34 | 22 | 248308 | 01110110011001110000100100000 |
| 146 | 6 | 3 | 46 | ON | 2 | 56 | 28 | 264034 | 01111101111001101011011010000 |
| | | | | OFF | 0 | 58 | 16 | 264142 | 01111101111100111110010110000 |
| 149 | 6 | 3 | 160 | ON | 5 | 33 | 11 | 280637 | 10000101110100010111001001000 |
| | | | | OFF | 5 | 39 | 17 | 281093 | 10000101111111100001111111000 |
| 150 | 6 | 1 | 7 | ON | 6 | 33 | 57 | 284283 | 10000111100011101000001111000 |
| | | | | OFF | 6 | 34 | 24 | 284310 | 10000111100100011100111110000 |
| 150 | 3 | 6 | 128 | ON | 6 | 59 | 25 | 285810 | 10001000010010001110101010000 |
| | | | | OFF | 7 | 4 | 16 | 286101 | 10001000011011000111000001000 |
| 153 | 2 | 1 | 37 | ON | 11 | 33 | 19 | 302245 | 10010000000111110010010001000 |
| | | | | OFF | 11 | 34 | 44 | 302330 | 10010000001010011000010010000 |
| 154 | 1 | 4 | 28 | ON | 13 | 3 | 48 | 307674 | 100100101010101101110010000 |
| | | | | OFF | 13 | 4 | 54 | 307740 | 1001001010111101111010100000 |
| 154 | 1 | 8 | 26 | ON | 13 | 9 | 13 | 307939 | 10010010110101100011010111000 |

| | | | | | | | | | |
|-----|---|---|-----|----|----|----|--------|-------------------------------|--------------------------------|
| | | | OFF | 13 | 9 | 18 | 308804 | 10010010110111100010010100000 | |
| 158 | 8 | 3 | 45 | ON | 19 | 3 | 329272 | 10011101000000100101011000000 | |
| | | | OFF | 19 | 5 | 31 | 329377 | 10011101000011110010011101000 | |
| 159 | 3 | 0 | 16 | ON | 20 | 29 | 24 | 334410 | 10011111011101011000100010000 |
| | | | OFF | 20 | 30 | 1 | 334447 | 1001111101111010000010011000 | |
| 164 | 3 | 2 | 40 | ON | 3 | 50 | 47 | 360893 | 10101100000101100101001001000 |
| | | | OFF | 3 | 52 | 21 | 360987 | 10101100001000011100101111000 | |
| 165 | 3 | 4 | 17 | ON | 5 | 26 | 40 | 366646 | 10101110110101001001011110000 |
| | | | OFF | 5 | 27 | 21 | 366687 | 10101110110110011001100011000 | |
| 165 | 3 | 6 | 45 | ON | 5 | 31 | 34 | 366940 | 10101110111110000111101100000 |
| | | | OFF | 5 | 33 | 19 | 367045 | 10101111000001010100110001000 | |
| 166 | 3 | 1 | 7 | ON | 6 | 29 | 46 | 370432 | 10110000101000101100000000000 |
| | | | OFF | 6 | 30 | 14 | 370460 | 10110000101001100010101100000 | |
| 166 | 9 | 6 | 51 | ON | 6 | 57 | 15 | 372081 | 101100010110110000000101101000 |
| | | | OFF | 6 | 59 | 13 | 372199 | 10110001011110100111001011000 | |
| 167 | 9 | 6 | 58 | ON | 8 | 25 | 54 | 377399 | 10110011111101010011011011000 |
| | | | OFF | 8 | 28 | 8 | 377533 | 10110100000001011001001001000 | |
| 168 | 4 | 2 | 52 | ON | 9 | 51 | 13 | 382519 | 10110110011001100011011011000 |
| | | | OFF | 9 | 53 | 12 | 382638 | 10110110011101001011110110000 | |
| 170 | 4 | 6 | 16 | ON | 13 | 3 | 37 | 394062 | 10111011111001110100010110000 |
| | | | OFF | 13 | 4 | 15 | 394100 | 10111011111010111110100100000 | |
| 173 | 8 | 3 | 100 | ON | 17 | 40 | 59 | 410705 | 11000011110101101110001101000 |
| | | | OFF | 17 | 46 | 18 | 411024 | 11000011111111011101010000000 | |
| 175 | 9 | 0 | 16 | ON | 20 | 26 | 8 | 420614 | 11001000100100000111101110000 |
| | | | OFF | 20 | 26 | 44 | 420650 | 11001000100101001110000010000 | |

NOTE - ONLY THE LAST 5 FRAMES FOR THE FWD PAN CAMERA AND THE LAST SIX FRAMES FOR THE AFT PAN CAMERA OF OPERATION 79-8-2 ARE IN THE B MISSION RECOVERY BUCKET.

NOTE - OPERATION 81-0-0 IS THE CUT AND WRAP OPERATION OCCURRING AT THE A MISSION RECOVERY.

NOTE - T/M DATA OBSERVED DURING OPERATION 175-9-0 SHOWED THAT ALL OF THE FILM WAS DEPLETED FOR BOTH PAN CAMERAS PRIOR TO THIS OPERATION.

NOTE - T/M DATA INDICATE NORMAL SYSTEM PERFORMANCE FOR THE ENTIRE MISSION.