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14-00040G87D



FLIGHT DATA

1037-

10372

Declassified and Released by the NRO

In Accordance with E. O. 12958

on NOV 26 1997

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4 PAGES
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-38

VEHICLE NO. 1632

MISSION NO. 1837-2

CAMERA NOS. 198/199

DATE 11-21-66

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SYSTEM NO. J-38
VEHICLE NO. 1632
MISSION NO. 1837-2
CAMERA NOS. 198/199

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SYSTEM NO. J-38
VEHICLE NO. 1632
MISSION NO. 1837-2
CAMERA NOS. 198/199

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 198

SLAVE CAMERA SERIAL NO. 199

S/I -1 SERIAL NO. D181/128/124

S/I -2 SERIAL NO. D186/136/134

LAUNCH DATE 11-88-66

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 138)

PERIOD 89.239 MIN

ECCENTRICITY 8.88952

PERIGEE 98.846 NM

PERIGEE LAT. 45.835

APOGEE 166.838 NM

INCL. ANGLE 188.874

RECOVERY ORBIT NO. 195

RECOVERY DATE 11-28-66

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SYSTEM NO. J-38
VEHICLE NO. 1632
MISSION NO. 1837-2
CAMERA NOS. 198/199

CYCLE PERIOD DATA

| V/H RAMP LEVEL | SETTING AMPLITUDE | TIME UP RAMP-SEC | ---CALIBRATED--- | | ---IN-FLIGHT--- | | ORE NO. |
|-------------------|----------------------|---------------------|----------------------------|---------------------------|----------------------------|---------------------------|------------|
| | | | CYCLE PERIOD-SEC MASTER | CYCLE PERIOD-SEC SLAVE | CYCLE PERIOD-SEC MASTER | CYCLE PERIOD-SEC SLAVE | |
| 3 | 4 | 158 | 3.513 | 3.479 | 3.588 | 3.588 | 72 |
| 3 | 4 | 1787 | 2.199 | 2.199 | 2.222 | 2.235 | 81 |
| 4 | 5 | 1877 | 2.218 | 2.214 | 2.242 | 2.232 | 112 |
| 4 | 5 | 2888 | 2.218 | 2.214 | 2.228 | 2.248 | 145 |
| 4 | 5 | 1942 | 2.211 | 2.211 | 2.245 | 2.245 | 161 |

NOTE

AN * OR -# INDICATES NO DATA AVAILABLE.

A. 1837-2

B. DRY

C. PERFORMANCE ESTIMATE - PART ONE



OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 198

| OPN | NO | FRA | | Q | LAT | LONG | HEIGHT | RANGE | DA | H | M | S | LTIM | S-TIM |
|-----|----|-----|----|-----|---------|---------|--------|--------|----|----|----|----|------|-------|
| 64 | 5 | 8 | 11 | ON | 2 32 21 | 189 9W | 572992 | 593888 | 12 | 19 | 18 | 11 | 12 1 | 69491 |
| | | | | OFF | 2 38 34 | 189 42W | 578848 | 598752 | 12 | 19 | 18 | 38 | 1159 | 69518 |
| 66 | 8 | 8 | 3 | ON | 2 57 13 | 142 35W | 637376 | 668592 | 12 | 22 | 18 | 23 | 1248 | 79823 |
| | | | | OFF | 2 55 44 | 143 35W | 632488 | 655448 | 12 | 22 | 18 | 46 | 1236 | 79846 |
| 68 | 7 | 3 | 22 | ON | 3 9 9 | 151 2E | 586864 | 687368 | 13 | 1 | 25 | 26 | 1129 | 5126 |
| | | | | OFF | 3 12 24 | 158 14E | 594416 | 616832 | 13 | 1 | 26 | 14 | 1127 | 5174 |
| 68 | 7 | 4 | 43 | ON | 3 28 39 | 148 8E | 619872 | 642432 | 13 | 1 | 28 | 17 | 1128 | 5297 |
| | | | | OFF | 3 27 19 | 146 18E | 644464 | 667952 | 13 | 1 | 29 | 56 | 1115 | 5396 |
| 69 | 1 | 3 | 58 | ON | 2 1 6 | 131 14E | 566464 | 587824 | 13 | 2 | 52 | 9 | 1137 | 18329 |
| | | | | OFF | 3 6 31 | 129 24E | 588288 | 681288 | 13 | 2 | 54 | 2 | 1131 | 18442 |
| 71 | 6 | 3 | 34 | ON | 2 31 59 | 94 46E | 569952 | 598656 | 13 | 5 | 43 | 8 | 12 2 | 28588 |
| | | | | OFF | 2 26 47 | 93 13E | 562976 | 583488 | 13 | 5 | 44 | 17 | 1157 | 28657 |
| 72 | 1 | 8 | 13 | ON | 1 38 51 | 115 27W | 982832 | 935312 | 13 | 6 | 45 | 37 | 23 3 | 24337 |
| | | | | OFF | 1 41 58 | 116 34W | 893936 | 926912 | 13 | 6 | 46 | 23 | 23 8 | 24383 |
| 72 | 1 | 2 | 17 | ON | 2 58 55 | 79 57E | 613872 | 635392 | 13 | 7 | 7 | 29 | 1227 | 25649 |
| | | | | OFF | 2 48 14 | 78 36E | 685392 | 627424 | 13 | 7 | 8 | 18 | 1222 | 25698 |
| 72 | 1 | 4 | 58 | ON | 2 43 59 | 76 45E | 594176 | 615776 | 13 | 7 | 9 | 14 | 1216 | 25754 |
| | | | | OFF | 2 35 19 | 73 34E | 575312 | 596288 | 13 | 7 | 11 | 24 | 12 5 | 25884 |
| 73 | 6 | 2 | 88 | ON | 2 51 31 | 57 59E | 614832 | 636384 | 13 | 8 | 36 | 34 | 1228 | 38994 |
| | | | | OFF | 2 39 35 | 52 46E | 583296 | 684496 | 13 | 8 | 39 | 34 | 1218 | 31174 |
| 74 | 4 | 1 | 36 | ON | 2 59 23 | 48 47E | 638192 | 661456 | 13 | 18 | 3 | 46 | 1246 | 36226 |
| | | | | OFF | 2 53 43 | 36 57E | 619888 | 642448 | 13 | 18 | 5 | 14 | 1233 | 36314 |
| 74 | 4 | 2 | 42 | ON | 2 28 42 | 24 43E | 557312 | 577536 | 13 | 18 | 13 | 29 | 1152 | 36889 |
| | | | | OFF | 2 14 32 | 23 8E | 556288 | 576488 | 13 | 18 | 15 | 8 | 1147 | 36988 |
| 75 | 4 | 1 | 38 | ON | 2 14 51 | 8 57E | 556864 | 576248 | 13 | 11 | 44 | 9 | 1147 | 42249 |
| | | | | OFF | 2 9 12 | 8 26W | 558272 | 578528 | 13 | 11 | 45 | 32 | 1143 | 42332 |
| 77 | 9 | 1 | 22 | ON | 2 1 8 | 46 57W | 567296 | 587888 | 13 | 14 | 46 | 8 | 1138 | 53168 |
| | | | | OFF | 3 2 18 | 47 45W | 572896 | 593712 | 13 | 14 | 46 | 49 | 1135 | 53289 |
| 79 | 5 | 8 | 16 | ON | 2 41 37 | 88 4W | 584288 | 685528 | 13 | 17 | 34 | 21 | 1214 | 63261 |
| | | | | OFF | 2 39 8 | 81 8W | 579848 | 688888 | 13 | 17 | 34 | 58 | 1218 | 63298 |
| 88 | 5 | 8 | 8 | ON | 2 33 6 | 185 18W | 567888 | 588512 | 13 | 19 | 5 | 41 | 12 4 | 68741 |
| | | | | OFF | 2 31 47 | 185 42W | 566888 | 586568 | 13 | 19 | 6 | 1 | 12 3 | 68761 |
| 81 | 5 | 8 | 17 | ON | 2 36 3 | 126 36W | 572224 | 593888 | 13 | 28 | 34 | 8 | 12 7 | 74848 |
| | | | | OFF | 2 33 26 | 127 27W | 567984 | 588688 | 13 | 28 | 34 | 47 | 12 4 | 74887 |
| 84 | 7 | 5 | 41 | ON | 3 38 28 | 149 5E | 661728 | 685872 | 14 | 1 | 18 | 6 | 1114 | 4686 |
| | | | | OFF | 3 37 11 | 146 53E | 691664 | 716928 | 14 | 1 | 19 | 49 | 11 7 | 4789 |
| 85 | 2 | 6 | 16 | ON | 3 23 58 | 128 48E | 636352 | 659536 | 14 | 2 | 45 | 42 | 1128 | 9942 |
| | | | | OFF | 3 26 39 | 127 55E | 646816 | 678488 | 14 | 2 | 46 | 22 | 1118 | 9982 |
| 85 | 2 | 7 | 18 | ON | 3 29 9 | 127 11E | 656968 | 688912 | 14 | 2 | 47 | 8 | 1115 | 18828 |
| | | | | OFF | 3 32 9 | 126 17E | 669568 | 694888 | 14 | 2 | 47 | 45 | 1112 | 18865 |
| 86 | 3 | 2 | 57 | ON | 2 46 26 | 126 3E | 598336 | 611792 | 14 | 3 | 57 | 27 | 1221 | 14247 |
| | | | | OFF | 2 37 46 | 122 48E | 572896 | 592888 | 14 | 3 | 59 | 37 | 1218 | 14377 |
| 87 | 3 | 2 | 25 | ON | 2 43 4 | 182 28E | 687536 | 629648 | 14 | 5 | 27 | 38 | 1217 | 19658 |



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| | | | | | | | | | | | | | | | | | | |
|-----|---|-----|-----|----|----|-----|-----|--------|--------|--------|--------|----|----|------|-------|-------|-------|-------|
| | | OFF | 2 | 39 | 18 | 188 | 52E | 681768 | 623648 | 14 | 5 | 28 | 36 | 1212 | 19716 | | | |
| 88 | 8 | 2 | 111 | ON | 2 | 44 | 51 | 88 | 46E | 611712 | 633984 | 14 | 6 | 56 | 33 | 1219 | 24993 | |
| | | OFF | 2 | 28 | 17 | 75 | 2E | 593368 | 614928 | 14 | 7 | 8 | 41 | 12 | 8 | 25241 | | |
| 89 | 5 | 4 | 98 | ON | 2 | 63 | 5 | 69 | 56E | 652896 | 676784 | 14 | 8 | 21 | 14 | 13 | 8 | 38874 |
| | | OFF | 2 | 48 | 22 | 68 | 2E | 617968 | 648464 | 14 | 8 | 25 | 1 | 1225 | 38381 | | | |
| 89 | 5 | 8 | 42 | ON | 2 | 42 | 12 | 57 | 23E | 687376 | 629472 | 14 | 8 | 26 | 35 | 1216 | 38395 | |
| | | OFF | 2 | 35 | 57 | 55 | 7E | 599424 | 621232 | 14 | 8 | 28 | 9 | 12 | 8 | 38489 | | |
| 98 | 2 | 4 | 19 | ON | 3 | 23 | 38 | 17 | 16E | 696368 | 721888 | 14 | 18 | 12 | 17 | 1121 | 36737 | |
| | | OFF | 3 | 26 | 59 | 16 | 28E | 718384 | 736352 | 14 | 18 | 13 | 7 | 1118 | 36787 | | | |
| 94 | 2 | 1 | 84 | ON | 2 | 9 | 4 | 63 | 58W | 685456 | 627472 | 14 | 16 | 1 | 34 | 1146 | 57694 | |
| | | OFF | 3 | 3 | 41 | 66 | 54W | 631344 | 654336 | 14 | 16 | 4 | 44 | 1137 | 57884 | | | |
| 95 | 8 | 2 | 31 | ON | 2 | 39 | 31 | 77 | 26W | 683696 | 625664 | 14 | 17 | 23 | 22 | 1213 | 62682 | |
| | | OFF | 2 | 34 | 44 | 79 | 5W | 598816 | 628592 | 14 | 17 | 24 | 34 | 12 | 8 | 62674 | | |
| 95 | 8 | 6 | 16 | ON | 2 | 13 | 18 | 85 | 5W | 688656 | 622496 | 14 | 17 | 29 | 52 | 1149 | 62992 | |
| | | OFF | 2 | 18 | 43 | 85 | 44W | 683688 | 625632 | 14 | 17 | 38 | 38 | 1147 | 63838 | | | |
| 100 | 2 | 1 | 28 | ON | 3 | 6 | 36 | 158 | 35E | 641984 | 665296 | 15 | 1 | 1 | 28 | 1135 | 3688 | |
| | | OFF | 3 | 9 | 49 | 157 | 48E | 651616 | 675376 | 15 | 1 | 2 | 16 | 1133 | 3736 | | | |
| 100 | 2 | 3 | 48 | ON | 3 | 23 | 33 | 154 | 16E | 781552 | 727184 | 15 | 1 | 5 | 41 | 1122 | 3941 | |
| | | OFF | 3 | 38 | 39 | 152 | 13E | 731856 | 758648 | 15 | 1 | 7 | 27 | 1116 | 4847 | | | |
| 101 | 4 | 3 | 15 | ON | 3 | 2 | 51 | 137 | 11E | 631928 | 654928 | 15 | 2 | 29 | 52 | 1138 | 8992 | |
| | | OFF | 3 | 5 | 15 | 136 | 36E | 638288 | 661536 | 15 | 2 | 38 | 28 | 1136 | 9828 | | | |
| 101 | 4 | 9 | 18 | ON | 3 | 29 | 49 | 138 | 11E | 728592 | 755248 | 15 | 2 | 36 | 35 | 1117 | 9395 | |
| | | OFF | 3 | 33 | 7 | 129 | 9E | 743312 | 778528 | 15 | 2 | 37 | 25 | 1114 | 9445 | | | |
| 102 | 3 | 3 | 45 | ON | 2 | 43 | 13 | 127 | 52E | 687888 | 629184 | 15 | 3 | 47 | 45 | 1219 | 13665 | |
| | | OFF | 2 | 36 | 24 | 125 | 21E | 599472 | 621288 | 15 | 3 | 49 | 27 | 1218 | 13767 | | | |
| 103 | 3 | 2 | 44 | ON | 2 | 48 | 34 | 184 | 32E | 683488 | 625368 | 15 | 5 | 17 | 45 | 1215 | 19865 | |
| | | OFF | 2 | 33 | 54 | 182 | 14E | 597344 | 619872 | 15 | 5 | 19 | 25 | 12 | 8 | 19165 | | |
| 104 | 3 | 5 | 89 | ON | 2 | 43 | 27 | 83 | 21E | 686672 | 628736 | 15 | 6 | 46 | 28 | 1219 | 24388 | |
| | | OFF | 2 | 38 | 8 | 78 | 43E | 595264 | 616912 | 15 | 6 | 49 | 41 | 12 | 4 | 24581 | | |
| 105 | 2 | 2 | 19 | ON | 2 | 47 | 16 | 62 | 42E | 611952 | 634224 | 15 | 8 | 14 | 41 | 1225 | 29681 | |
| | | OFF | 2 | 44 | 17 | 61 | 25E | 687488 | 629584 | 15 | 8 | 15 | 26 | 1221 | 29726 | | | |
| 106 | 4 | 4 | 23 | ON | 2 | 23 | 22 | 32 | 15E | 594864 | 616496 | 15 | 9 | 49 | 58 | 1158 | 35398 | |
| | | OFF | 2 | 19 | 46 | 31 | 17E | 596384 | 618864 | 15 | 9 | 58 | 51 | 1156 | 35451 | | | |
| 107 | 7 | 3 | 17 | ON | 2 | 28 | 14 | 11 | 28E | 594464 | 616888 | 15 | 11 | 18 | 4 | 12 | 3 | 48684 |
| | | OFF | 2 | 25 | 36 | 18 | 34E | 594488 | 616816 | 15 | 11 | 18 | 43 | 12 | 1 | 48723 | | |
| 111 | 1 | 1 | 24 | ON | 2 | 43 | 18 | 72 | 44W | 684368 | 626352 | 15 | 17 | 11 | 31 | 1228 | 61891 | |
| | | OFF | 2 | 39 | 36 | 74 | 8W | 688288 | 622128 | 15 | 17 | 12 | 26 | 1215 | 61946 | | | |
| 113 | 2 | 8 | 17 | ON | 2 | 35 | 5 | 128 | 17W | 596368 | 618864 | 15 | 28 | 12 | 9 | 1211 | 72729 | |
| | | OFF | 2 | 32 | 29 | 121 | 7W | 595824 | 616656 | 15 | 28 | 12 | 48 | 12 | 8 | 72768 | | |
| 117 | 2 | 4 | 46 | ON | 3 | 16 | 7 | 137 | 16E | 677968 | 782728 | 16 | 2 | 21 | 58 | 1131 | 8518 | |
| | | OFF | 3 | 23 | 55 | 135 | 12E | 788624 | 734528 | 16 | 2 | 23 | 55 | 1124 | 8635 | | | |
| 117 | 2 | 7 | 21 | ON | 3 | 27 | 55 | 134 | 4E | 725616 | 752168 | 16 | 2 | 24 | 55 | 1121 | 8695 | |
| | | OFF | 3 | 31 | 42 | 132 | 57E | 742352 | 769536 | 16 | 2 | 25 | 52 | 1117 | 8752 | | | |
| 118 | 4 | 6 | 17 | ON | 3 | 7 | 59 | 117 | 8E | 658592 | 674384 | 16 | 3 | 49 | 14 | 1137 | 13754 | |
| | | OFF | 3 | 18 | 53 | 116 | 17E | 659936 | 684888 | 16 | 3 | 49 | 57 | 1135 | 13797 | | | |
| 121 | 3 | 4 | 35 | ON | 2 | 48 | 47 | 66 | 48E | 688864 | 631824 | 16 | 8 | 2 | 55 | 1238 | 28975 | |
| | | OFF | 2 | 43 | 25 | 64 | 27E | 681936 | 623824 | 16 | 8 | 4 | 16 | 1222 | 29856 | | | |
| 126 | 8 | 5 | 43 | ON | 3 | 37 | 59 | 69 | 39W | 774288 | 882688 | 16 | 15 | 58 | 48 | 1112 | 57848 | |
| | | OFF | 3 | 46 | 38 | 73 | 8W | 814416 | 844336 | 16 | 15 | 52 | 58 | 11 | 8 | 57178 | | |
| 127 | 2 | 1 | 15 | ON | 2 | 9 | 31 | 79 | 17W | 618352 | 632568 | 16 | 17 | 8 | 13 | 1151 | 61693 | |
| | | OFF | 2 | 7 | 13 | 79 | 51W | 614576 | 636944 | 16 | 17 | 8 | 47 | 1149 | 61727 | | | |

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UNIT

| | | | | | | | | | | | | | | | | | | |
|-----|---|----|-----|----|----|----|-----|-----|--------|--------|--------|----|----|----|------|-------|-------|-------|
| 9 | 3 | 18 | ON | 2 | 33 | 38 | 95 | 8W | 593728 | 615312 | 16 | 18 | 31 | 38 | 1211 | 66698 | | |
| | | | OFF | 2 | 38 | 44 | 95 | 54W | 593288 | 614768 | 16 | 18 | 32 | 12 | 12 | 8 | 66732 | |
| 133 | 3 | 1 | 18 | ON | 2 | 55 | 14 | 163 | 1E | 614224 | 636576 | 17 | 1 | 52 | 12 | 1244 | 6732 | |
| | | | OFF | 2 | 52 | 27 | 161 | 23E | 689888 | 632888 | 17 | 1 | 52 | 55 | 1238 | | 6775 | |
| 134 | 5 | 6 | 26 | ON | 2 | 52 | 42 | 139 | 14E | 689928 | 632112 | 17 | 3 | 22 | 4 | 1239 | 12124 | |
| | | | OFF | 2 | 48 | 41 | 137 | 18E | 684488 | 626464 | 17 | 3 | 23 | 5 | 1231 | | 12185 | |
| 135 | 7 | 1 | 21 | ON | 2 | 51 | 53 | 116 | 31E | 688432 | 638576 | 17 | 4 | 51 | 38 | 1237 | 17498 | |
| | | | OFF | 2 | 48 | 41 | 114 | 54E | 684288 | 626192 | 17 | 4 | 52 | 19 | 1231 | | 17539 | |
| 135 | 7 | 3 | 49 | ON | 2 | 23 | 8 | 185 | 58E | 595472 | 617128 | 17 | 4 | 58 | 43 | 12 | 2 | 17923 |
| | | | OFF | 2 | 15 | 35 | 184 | 1E | 682568 | 624488 | 17 | 5 | 8 | 33 | 1156 | | 18833 | |
| 136 | 7 | 1 | 17 | ON | 2 | 41 | 37 | 89 | 36E | 596896 | 618592 | 17 | 6 | 23 | 18 | 1221 | 22998 | |
| | | | OFF | 2 | 38 | 59 | 88 | 37E | 595128 | 616752 | 17 | 6 | 23 | 58 | 1218 | | 23838 | |
| 137 | 8 | 1 | 86 | ON | 2 | 53 | 56 | 73 | 9E | 618888 | 633824 | 17 | 7 | 49 | 24 | 1242 | 28164 | |
| | | | OFF | 2 | 41 | 6 | 67 | 8E | 596328 | 618888 | 17 | 7 | 52 | 38 | 1221 | | 28388 | |
| 137 | 8 | 8 | 28 | ON | 2 | 28 | 28 | 62 | 56E | 593152 | 614784 | 17 | 7 | 55 | 49 | 12 | 7 | 28549 |
| | | | OFF | 2 | 25 | 14 | 62 | 2E | 594248 | 615848 | 17 | 7 | 56 | 35 | 12 | 4 | 28595 | |
| 138 | 8 | 6 | 88 | ON | 2 | 2 | 3 | 33 | 54E | 628256 | 651136 | 17 | 9 | 31 | 32 | 1147 | 34292 | |
| | | | OFF | 3 | 18 | 37 | 38 | 58E | 665264 | 689536 | 17 | 9 | 34 | 41 | 1138 | | 34481 | |
| 148 | 7 | 1 | 42 | ON | 2 | 28 | 46 | 3 | 44W | 593152 | 614728 | 17 | 12 | 23 | 19 | 12 | 8 | 44599 |
| | | | OFF | 2 | 22 | 24 | 5 | 32W | 596256 | 617936 | 17 | 12 | 24 | 54 | 12 | 2 | 44694 | |
| 145 | 4 | 2 | 19 | ON | 2 | 35 | 27 | 112 | 58W | 593888 | 614656 | 17 | 19 | 47 | 38 | 1215 | 71258 | |
| | | | OFF | 2 | 32 | 38 | 113 | 55W | 592784 | 614336 | 17 | 19 | 48 | 22 | 1212 | | 71382 | |
| 149 | 7 | 6 | 54 | ON | 3 | 26 | 58 | 141 | 38E | 732112 | 758896 | 18 | 1 | 59 | 58 | 1126 | 7198 | |
| | | | OFF | 3 | 37 | 8 | 138 | 28E | 777136 | 885648 | 18 | 2 | 2 | 23 | 1116 | | 7343 | |
| 158 | 2 | 4 | 47 | ON | 3 | 22 | 13 | 128 | 42E | 712464 | 738528 | 18 | 3 | 27 | 49 | 1138 | 12469 | |
| | | | OFF | 3 | 38 | 51 | 118 | 14E | 749168 | 776688 | 18 | 3 | 29 | 59 | 1122 | | 12599 | |
| 151 | 6 | 3 | 56 | ON | 2 | 48 | 8 | 115 | 3E | 593928 | 615528 | 18 | 4 | 41 | 31 | 1221 | 16891 | |
| | | | OFF | 2 | 31 | 33 | 112 | 13E | 592592 | 614128 | 18 | 4 | 43 | 37 | 1212 | | 17817 | |
| 152 | 6 | 2 | 76 | ON | 2 | 45 | 46 | 95 | 5E | 597376 | 619184 | 18 | 6 | 9 | 15 | 1229 | 22155 | |
| | | | OFF | 2 | 34 | 19 | 98 | 58E | 592368 | 613984 | 18 | 6 | 12 | 7 | 1215 | | 22327 | |
| 153 | 8 | 2 | 79 | ON | 2 | 51 | 2 | 75 | 21E | 682192 | 624896 | 18 | 7 | 37 | 4 | 1238 | 27424 | |
| | | | OFF | 2 | 39 | 13 | 78 | 15E | 593296 | 614864 | 18 | 7 | 48 | 2 | 1221 | | 27682 | |
| 154 | 8 | 6 | 65 | ON | 3 | 3 | 42 | 36 | 21E | 647776 | 671392 | 18 | 9 | 19 | 58 | 1145 | 33598 | |
| | | | OFF | 3 | 14 | 25 | 33 | 43E | 683288 | 788224 | 18 | 9 | 22 | 38 | 1137 | | 33758 | |
| 161 | 6 | 8 | 12 | ON | 2 | 32 | 21 | 118 | 2W | 592896 | 613632 | 18 | 19 | 34 | 53 | 1214 | 78493 | |
| | | | OFF | 2 | 38 | 24 | 118 | 38W | 592656 | 614288 | 18 | 19 | 35 | 22 | 1212 | | 78522 | |
| 165 | 2 | 3 | 26 | ON | 3 | 17 | 11 | 148 | 16E | 696656 | 722112 | 19 | 1 | 43 | 39 | 1136 | 6219 | |
| | | | OFF | 3 | 21 | 44 | 147 | 5E | 714448 | 748576 | 19 | 1 | 44 | 47 | 1133 | | 6287 | |
| 165 | 2 | 5 | 24 | ON | 3 | 26 | 15 | 145 | 58E | 733184 | 759936 | 19 | 1 | 45 | 55 | 1129 | 6355 | |
| | | | OFF | 3 | 38 | 48 | 144 | 32E | 751968 | 779528 | 19 | 1 | 47 | 2 | 1125 | | 6422 | |
| 165 | 2 | 7 | 23 | ON | 3 | 35 | 9 | 143 | 7E | 771632 | 799928 | 19 | 1 | 48 | 9 | 1128 | 6489 | |
| | | | OFF | 3 | 39 | 39 | 141 | 33E | 791688 | 828736 | 19 | 1 | 49 | 17 | 1115 | | 6557 | |
| 166 | 2 | 4 | 54 | ON | 3 | 28 | 31 | 125 | 9E | 789848 | 735792 | 19 | 3 | 13 | 35 | 1134 | 11615 | |
| | | | OFF | 3 | 38 | 17 | 122 | 24E | 758448 | 777936 | 19 | 3 | 16 | 2 | 1125 | | 11762 | |
| 167 | 6 | 3 | 51 | ON | 2 | 48 | 28 | 119 | 11E | 592464 | 614888 | 19 | 4 | 27 | 35 | 1224 | 16855 | |
| | | | OFF | 2 | 32 | 33 | 116 | 32E | 592352 | 613888 | 19 | 4 | 29 | 31 | 1215 | | 16171 | |
| 168 | 6 | 2 | 58 | ON | 2 | 43 | 57 | 98 | 21E | 593984 | 615584 | 19 | 5 | 55 | 47 | 1229 | 21347 | |
| | | | OFF | 2 | 35 | 15 | 95 | 18E | 592816 | 613536 | 19 | 5 | 57 | 57 | 1218 | | 21477 | |
| 169 | 3 | 2 | 35 | ON | 2 | 47 | 38 | 77 | 39E | 595936 | 617688 | 19 | 7 | 23 | 58 | 1234 | 26638 | |
| | | | OFF | 2 | 42 | 12 | 75 | 24E | 593888 | 614656 | 19 | 7 | 25 | 18 | 1226 | | 26718 | |
| 178 | 6 | 3 | 34 | ON | 2 | 49 | 32 | 56 | 23E | 597888 | 618888 | 19 | 8 | 52 | 33 | 1238 | 31953 | |

UNIT

CONFIDENTIAL

| | | | | | | | | | | | | | | | | | | |
|-----|---|---|----|-----|---|----|----|-----|-----|--------|--------|----|----|----|----|------|-------|-------|
| 181 | 7 | 3 | 33 | ON | 3 | 23 | 44 | 188 | 45E | 726144 | 615368 | 19 | 8 | 53 | 51 | 1238 | 32831 | |
| | | | | OFF | 3 | 29 | 41 | 149 | 3E | 758896 | 778488 | 28 | 1 | 32 | 5 | 1128 | 5525 | |
| 182 | 1 | 4 | 26 | ON | 3 | 4 | 51 | 133 | 19E | 657888 | 681888 | 28 | 2 | 54 | 58 | 1148 | 18495 | |
| | | | | OFF | 3 | 9 | 15 | 132 | 15E | 672224 | 696752 | 28 | 2 | 56 | 1 | 1145 | 18561 | |
| 182 | 1 | 6 | 25 | ON | 3 | 13 | 48 | 131 | 9E | 687616 | 712728 | 28 | 2 | 57 | 7 | 1141 | 18627 | |
| | | | | OFF | 3 | 18 | 4 | 138 | 2E | 783968 | 729712 | 28 | 2 | 58 | 13 | 1138 | 18693 | |
| 182 | 1 | 8 | 23 | ON | 3 | 22 | 32 | 128 | 51E | 721568 | 747952 | 28 | 2 | 59 | 28 | 1134 | 18768 | |
| | | | | OFF | 3 | 26 | 53 | 127 | 39E | 739328 | 766488 | 28 | 3 | 8 | 25 | 1131 | 18825 | |
| 184 | 6 | 2 | 51 | ON | 2 | 42 | 45 | 182 | 8E | 598784 | 612176 | 28 | 5 | 41 | 11 | 1229 | 28471 | |
| | | | | OFF | 2 | 35 | 5 | 99 | 22E | 598896 | 612384 | 28 | 5 | 43 | 6 | 1228 | 28586 | |
| 185 | 8 | 5 | 74 | ON | 2 | 38 | 14 | 75 | 38E | 593128 | 614688 | 28 | 7 | 13 | 28 | 1215 | 26888 | |
| | | | | OFF | 2 | 19 | 2 | 72 | 38E | 684368 | 626352 | 28 | 7 | 16 | 7 | 12 | 6 | 26167 |
| 186 | 6 | 4 | 31 | ON | 2 | 45 | 57 | 59 | 1E | 591296 | 612888 | 28 | 8 | 38 | 27 | 1234 | 31187 | |
| | | | | OFF | 2 | 41 | 14 | 57 | 6E | 598144 | 611688 | 28 | 8 | 39 | 38 | 1228 | 31178 | |
| 187 | 2 | 2 | 16 | ON | 2 | 4 | 59 | 24 | 34E | 631536 | 654544 | 28 | 18 | 17 | 48 | 1155 | 37868 | |
| | | | | OFF | 2 | 2 | 25 | 23 | 57E | 638864 | 661312 | 28 | 18 | 18 | 18 | 1154 | 37898 | |
| 188 | 2 | 2 | 46 | ON | 2 | 24 | 58 | 7 | 24E | 597128 | 618832 | 28 | 11 | 41 | 47 | 1211 | 42187 | |
| | | | | OFF | 2 | 17 | 52 | 5 | 32E | 685984 | 627936 | 28 | 11 | 43 | 38 | 12 | 5 | 42218 |
| 194 | 9 | 1 | 12 | ON | 2 | 38 | 9 | 121 | 46W | 588168 | 689536 | 28 | 28 | 32 | 34 | 1225 | 73954 | |
| | | | | OFF | 2 | 36 | 11 | 122 | 27W | 588624 | 618816 | 28 | 28 | 33 | 3 | 1223 | 73983 | |

OPERATIONS SUMMARY

| AFT PAN CAMERA NUMBER 199 | | | | | | | | | | | | | | | | | | |
|---------------------------|----|-----|----|-----|-----|-------|---------|--------|--------|----|----|-------|------|-------|--|--|--|--|
| OPN | NO | FRA | | Q | LAT | LONG | HEIGHT | RANGE | DA | H | M | S | LTIM | S-TIM | | | | |
| 64 | 5 | 8 | 11 | ON | 2 | 32 21 | 189 12W | 571688 | 592368 | 12 | 19 | 18 23 | 12 1 | 69583 | | | | |
| | | | | OFF | 2 | 38 34 | 189 45W | 568816 | 589472 | 12 | 19 | 18 58 | 1159 | 69538 | | | | |
| 66 | 8 | 8 | 3 | ON | 2 | 57 19 | 142 35W | 634728 | 657848 | 12 | 22 | 18 35 | 1239 | 79835 | | | | |
| | | | | OFF | 2 | 55 49 | 143 36W | 629768 | 652784 | 12 | 22 | 18 58 | 1236 | 79858 | | | | |
| 68 | 7 | 3 | 22 | ON | 3 | 9 8 | 151 8E | 588112 | 689488 | 13 | 1 | 25 38 | 1129 | 5138 | | | | |
| | | | | OFF | 3 | 12 22 | 158 12E | 596784 | 618488 | 13 | 1 | 26 26 | 1127 | 5186 | | | | |
| 68 | 7 | 4 | 43 | ON | 3 | 28 34 | 148 6E | 622752 | 645424 | 13 | 1 | 28 29 | 1128 | 5389 | | | | |
| | | | | OFF | 3 | 27 13 | 146 16E | 647712 | 671328 | 13 | 1 | 38 8 | 1115 | 5488 | | | | |
| 69 | 1 | 3 | 58 | ON | 2 | 1 6 | 131 11E | 567664 | 588288 | 13 | 2 | 52 21 | 1136 | 18341 | | | | |
| | | | | OFF | 3 | 6 38 | 129 22E | 582864 | 683216 | 13 | 2 | 54 14 | 1131 | 18454 | | | | |
| 71 | 6 | 3 | 34 | ON | 2 | 31 58 | 94 42E | 568784 | 589368 | 13 | 5 | 43 12 | 12 1 | 28592 | | | | |
| | | | | OFF | 2 | 26 46 | 93 18E | 562864 | 582464 | 13 | 5 | 44 29 | 1156 | 28669 | | | | |
| 72 | 1 | 8 | 13 | ON | 1 | 38 21 | 115 22W | 899984 | 933184 | 13 | 6 | 45 49 | 23 4 | 24349 | | | | |
| | | | | OFF | 1 | 41 21 | 116 28W | 891768 | 924656 | 13 | 6 | 46 35 | 23 8 | 24395 | | | | |
| 72 | 1 | 2 | 17 | ON | 2 | 58 59 | 79 55E | 618728 | 632944 | 13 | 7 | 7 41 | 1227 | 25661 | | | | |
| | | | | OFF | 2 | 48 17 | 78 35E | 683136 | 625872 | 13 | 7 | 8 22 | 1222 | 25782 | | | | |
| 72 | 1 | 4 | 58 | ON | 2 | 44 1 | 76 42E | 592168 | 613696 | 13 | 7 | 9 26 | 1216 | 25766 | | | | |
| | | | | OFF | 2 | 35 19 | 73 38E | 573848 | 594688 | 13 | 7 | 11 36 | 12 5 | 25896 | | | | |
| 73 | 6 | 2 | 88 | ON | 2 | 51 35 | 57 58E | 611648 | 633984 | 13 | 8 | 36 46 | 1228 | 31886 | | | | |
| | | | | OFF | 2 | 39 36 | 52 43E | 581568 | 682784 | 13 | 8 | 39 46 | 1218 | 31186 | | | | |
| 74 | 4 | 1 | 35 | ON | 2 | 59 29 | 48 47E | 635536 | 658688 | 13 | 18 | 3 58 | 1246 | 36238 | | | | |
| | | | | OFF | 2 | 53 48 | 36 56E | 617488 | 639872 | 13 | 18 | 5 26 | 1232 | 36326 | | | | |
| 74 | 4 | 2 | 42 | ON | 2 | 28 48 | 24 41E | 556944 | 577152 | 13 | 18 | 13 41 | 1152 | 36821 | | | | |
| | | | | OFF | 2 | 14 38 | 23 5E | 556352 | 576544 | 13 | 18 | 15 12 | 1147 | 36912 | | | | |
| 75 | 4 | 1 | 38 | ON | 2 | 14 49 | 8 54E | 556176 | 576352 | 13 | 11 | 44 21 | 1147 | 42261 | | | | |

CONFIDENTIAL

LUILL

| | | | | | | | | | | | | | | | | | | |
|-----|---|---|-----|-----|---|----|----|-----|-----|--------|--------|----|----|----|----|------|-------|-------|
| 77 | 5 | 1 | 22 | OFF | 2 | 9 | 11 | 0 | 29W | 558848 | 579136 | 13 | 11 | 45 | 44 | 1143 | 42344 | |
| | | | | ON | 2 | 1 | 8 | 47 | 8W | 568568 | 589288 | 13 | 14 | 46 | 12 | 1137 | 53172 | |
| | | | | OFF | 3 | 2 | 18 | 47 | 48W | 574464 | 595328 | 13 | 14 | 47 | 1 | 1135 | 53221 | |
| 79 | 5 | 8 | 16 | ON | 2 | 41 | 38 | 88 | 7W | 582496 | 603664 | 13 | 17 | 34 | 33 | 1213 | 63273 | |
| | | | | OFF | 2 | 39 | 9 | 81 | 3W | 577488 | 598384 | 13 | 17 | 35 | 18 | 1218 | 63318 | |
| 88 | 5 | 8 | 8 | ON | 2 | 33 | 5 | 185 | 21W | 566672 | 587248 | 13 | 19 | 5 | 53 | 12 | 4 | 68753 |
| | | | | OFF | 2 | 31 | 46 | 185 | 46W | 564864 | 585376 | 13 | 19 | 6 | 13 | 12 | 2 | 68773 |
| 81 | 5 | 8 | 17 | ON | 2 | 36 | 3 | 126 | 39W | 578888 | 591528 | 13 | 28 | 34 | 28 | 12 | 7 | 74868 |
| | | | | OFF | 2 | 33 | 26 | 127 | 31W | 566768 | 587344 | 13 | 28 | 34 | 59 | 12 | 4 | 74899 |
| 84 | 7 | 5 | 41 | ON | 3 | 38 | 12 | 149 | 4E | 665288 | 689472 | 14 | 1 | 18 | 18 | 1114 | 4698 | |
| | | | | OFF | 3 | 37 | 8 | 146 | 53E | 695392 | 728888 | 14 | 1 | 28 | 1 | 11 | 7 | 4881 |
| 85 | 2 | 6 | 16 | ON | 3 | 23 | 51 | 128 | 38E | 639536 | 662832 | 14 | 2 | 45 | 54 | 1128 | 9954 | |
| | | | | OFF | 3 | 26 | 31 | 127 | 53E | 658896 | 673792 | 14 | 2 | 46 | 34 | 1117 | 9994 | |
| 85 | 2 | 7 | 18 | ON | 3 | 29 | 1 | 127 | 18E | 668352 | 684432 | 14 | 2 | 47 | 12 | 1115 | 18832 | |
| | | | | OFF | 3 | 31 | 59 | 126 | 16E | 673184 | 697664 | 14 | 2 | 47 | 57 | 1112 | 18877 | |
| 86 | 3 | 2 | 57 | ON | 2 | 46 | 27 | 126 | 1E | 588416 | 689888 | 14 | 3 | 57 | 39 | 1221 | 14259 | |
| | | | | OFF | 2 | 37 | 46 | 122 | 36E | 578648 | 591368 | 14 | 3 | 59 | 49 | 1218 | 14389 | |
| 87 | 3 | 2 | 25 | ON | 2 | 43 | 7 | 182 | 18E | 686288 | 628256 | 14 | 5 | 27 | 58 | 1216 | 19678 | |
| | | | | OFF | 2 | 39 | 13 | 188 | 49E | 688688 | 622528 | 14 | 5 | 28 | 48 | 1211 | 19728 | |
| 88 | 8 | 2 | 118 | ON | 2 | 44 | 54 | 88 | 44E | 618272 | 632488 | 14 | 6 | 56 | 45 | 1219 | 25885 | |
| | | | | OFF | 2 | 28 | 19 | 74 | 59E | 593872 | 614648 | 14 | 7 | 8 | 53 | 12 | 8 | 25253 |
| 89 | 5 | 4 | 98 | ON | 2 | 63 | 12 | 69 | 59E | 658768 | 674496 | 14 | 8 | 21 | 26 | 13 | 1 | 38886 |
| | | | | OFF | 2 | 48 | 27 | 68 | 1E | 616464 | 638912 | 14 | 8 | 25 | 13 | 1225 | 38313 | |
| 89 | 5 | 8 | 42 | ON | 2 | 42 | 16 | 57 | 21E | 686144 | 628192 | 14 | 8 | 26 | 47 | 1216 | 38487 | |
| | | | | OFF | 2 | 36 | 8 | 55 | 5E | 598688 | 628368 | 14 | 8 | 28 | 21 | 12 | 8 | 38581 |
| 98 | 2 | 4 | 19 | ON | 3 | 23 | 27 | 17 | 15E | 699728 | 725296 | 14 | 18 | 12 | 29 | 1121 | 36749 | |
| | | | | OFF | 3 | 26 | 47 | 16 | 19E | 713888 | 739984 | 14 | 18 | 13 | 19 | 1118 | 36799 | |
| 94 | 2 | 1 | 83 | ON | 2 | 9 | 7 | 63 | 52W | 686784 | 628784 | 14 | 16 | 1 | 46 | 1146 | 57786 | |
| | | | | OFF | 3 | 3 | 36 | 66 | 56W | 633488 | 656568 | 14 | 16 | 4 | 56 | 1137 | 57896 | |
| 95 | 8 | 2 | 31 | ON | 2 | 39 | 34 | 77 | 28W | 682736 | 624656 | 14 | 17 | 23 | 34 | 1213 | 62614 | |
| | | | | OFF | 2 | 34 | 47 | 79 | 8W | 598176 | 619936 | 14 | 17 | 24 | 46 | 12 | 8 | 62686 |
| 95 | 8 | 6 | 16 | ON | 2 | 13 | 28 | 85 | 7W | 681568 | 623448 | 14 | 17 | 38 | 4 | 1149 | 63884 | |
| | | | | OFF | 2 | 18 | 46 | 85 | 46W | 684768 | 626768 | 14 | 17 | 38 | 42 | 1147 | 63842 | |
| 188 | 2 | 1 | 28 | ON | 3 | 6 | 29 | 158 | 33E | 644328 | 667888 | 15 | 1 | 1 | 48 | 1135 | 3788 | |
| | | | | OFF | 3 | 9 | 41 | 157 | 46E | 654256 | 678112 | 15 | 1 | 2 | 28 | 1133 | 3748 | |
| 188 | 2 | 3 | 48 | ON | 3 | 23 | 21 | 154 | 15E | 784944 | 738728 | 15 | 1 | 5 | 53 | 1122 | 3953 | |
| | | | | OFF | 3 | 38 | 24 | 152 | 14E | 735584 | 762432 | 15 | 1 | 7 | 39 | 1116 | 4859 | |
| 181 | 4 | 3 | 15 | ON | 3 | 2 | 45 | 137 | 9E | 634832 | 657128 | 15 | 2 | 38 | 4 | 1138 | 9884 | |
| | | | | OFF | 3 | 5 | 9 | 136 | 35E | 648624 | 663968 | 15 | 2 | 38 | 48 | 1136 | 9848 | |
| 181 | 4 | 9 | 18 | ON | 3 | 29 | 35 | 138 | 18E | 732168 | 758968 | 15 | 2 | 36 | 47 | 1117 | 9487 | |
| | | | | OFF | 3 | 32 | 51 | 129 | 18E | 747848 | 774488 | 15 | 2 | 37 | 37 | 1114 | 9457 | |
| 182 | 3 | 3 | 44 | ON | 2 | 43 | 16 | 127 | 58E | 685984 | 628832 | 15 | 3 | 47 | 57 | 1219 | 13677 | |
| | | | | OFF | 2 | 36 | 27 | 125 | 19E | 598816 | 628592 | 15 | 3 | 49 | 39 | 1218 | 13779 | |
| 183 | 3 | 2 | 44 | ON | 2 | 48 | 37 | 184 | 38E | 682464 | 624368 | 15 | 5 | 17 | 57 | 1215 | 19877 | |
| | | | | OFF | 2 | 33 | 57 | 182 | 11E | 596816 | 618512 | 15 | 5 | 19 | 37 | 12 | 8 | 19177 |
| 184 | 3 | 5 | 89 | ON | 2 | 43 | 38 | 83 | 28E | 685568 | 627688 | 15 | 6 | 46 | 32 | 1219 | 24392 | |
| | | | | OFF | 2 | 38 | 2 | 78 | 48E | 595888 | 616648 | 15 | 6 | 49 | 53 | 12 | 4 | 24593 |
| 185 | 2 | 2 | 19 | ON | 2 | 47 | 19 | 62 | 41E | 618656 | 632888 | 15 | 8 | 14 | 53 | 1225 | 29693 | |
| | | | | OFF | 2 | 44 | 28 | 61 | 23E | 686352 | 628416 | 15 | 8 | 15 | 38 | 1221 | 29738 | |
| 186 | 4 | 4 | 23 | ON | 2 | 23 | 24 | 32 | 12E | 595128 | 616768 | 15 | 9 | 58 | 18 | 1158 | 35418 | |
| | | | | OFF | 2 | 19 | 48 | 31 | 14E | 596912 | 618624 | 15 | 9 | 51 | 3 | 1155 | 35463 | |

CFARF

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| | | | | | | | | | | | | | | | | | | |
|-----|---|---|----|-----|---|----|----|-----|-----|--------|--------|----|----|----|----|------|-------|-------|
| 107 | 7 | 3 | 17 | ON | 2 | 28 | 16 | 11 | 17E | 594384 | 616888 | 15 | 11 | 18 | 16 | 12 | 3 | 48696 |
| | | | | OFF | 2 | 25 | 39 | 18 | 32E | 594496 | 616112 | 15 | 11 | 18 | 55 | 12 | 8 | 48735 |
| 111 | 1 | 1 | 24 | ON | 2 | 43 | 21 | 72 | 46W | 683376 | 625312 | 15 | 17 | 11 | 43 | 1228 | 61983 | |
| | | | | OFF | 2 | 39 | 39 | 74 | 11W | 599584 | 621296 | 15 | 17 | 12 | 38 | 1215 | 61958 | |
| 113 | 2 | 8 | 17 | ON | 2 | 35 | 8 | 128 | 28W | 595872 | 617536 | 15 | 28 | 12 | 21 | 1218 | 72741 | |
| | | | | OFF | 2 | 32 | 31 | 121 | 18W | 594728 | 616352 | 15 | 28 | 13 | 8 | 12 | 8 | 72788 |
| 117 | 2 | 4 | 45 | ON | 3 | 15 | 57 | 137 | 15E | 681848 | 785984 | 16 | 2 | 22 | 18 | 1131 | 8538 | |
| | | | | OFF | 3 | 23 | 42 | 135 | 12E | 712832 | 738864 | 16 | 2 | 24 | 7 | 1124 | 8647 | |
| 117 | 2 | 7 | 21 | ON | 3 | 27 | 41 | 134 | 4E | 729184 | 755872 | 16 | 2 | 25 | 7 | 1121 | 8787 | |
| | | | | OFF | 3 | 31 | 26 | 132 | 57E | 746816 | 773344 | 16 | 2 | 26 | 4 | 1117 | 8764 | |
| 118 | 4 | 6 | 17 | ON | 3 | 7 | 51 | 116 | 59E | 653184 | 677888 | 16 | 3 | 49 | 26 | 1137 | 13766 | |
| | | | | OFF | 3 | 18 | 45 | 116 | 16E | 662728 | 686896 | 16 | 3 | 58 | 9 | 1135 | 13889 | |
| 121 | 3 | 4 | 35 | ON | 2 | 48 | 51 | 66 | 47E | 687688 | 629792 | 16 | 8 | 3 | 7 | 1238 | 28987 | |
| | | | | OFF | 2 | 43 | 28 | 64 | 25E | 681856 | 622912 | 16 | 8 | 4 | 28 | 1221 | 29868 | |
| 126 | 8 | 5 | 44 | ON | 3 | 37 | 48 | 69 | 36W | 777984 | 886512 | 16 | 15 | 51 | 8 | 1112 | 57868 | |
| | | | | OFF | 3 | 46 | 8 | 72 | 55W | 818224 | 848288 | 16 | 15 | 53 | 18 | 11 | 1 | 57198 |
| 127 | 2 | 1 | 14 | ON | 2 | 9 | 35 | 79 | 19W | 611824 | 634888 | 16 | 17 | 8 | 25 | 1158 | 61785 | |
| | | | | OFF | 2 | 7 | 17 | 79 | 53W | 616288 | 638648 | 16 | 17 | 8 | 59 | 1149 | 61739 | |
| 128 | 9 | 3 | 18 | ON | 2 | 33 | 37 | 95 | 3W | 593536 | 615128 | 16 | 18 | 31 | 42 | 1211 | 66782 | |
| | | | | OFF | 2 | 38 | 46 | 95 | 56W | 593216 | 614784 | 16 | 18 | 32 | 24 | 12 | 8 | 66744 |
| 133 | 3 | 1 | 18 | ON | 2 | 55 | 17 | 163 | 8E | 612928 | 635232 | 17 | 1 | 52 | 24 | 1244 | 6744 | |
| | | | | OFF | 2 | 52 | 38 | 161 | 21E | 688728 | 638864 | 17 | 1 | 53 | 7 | 1238 | 6787 | |
| 134 | 5 | 6 | 26 | ON | 2 | 52 | 45 | 139 | 13E | 688752 | 638896 | 17 | 3 | 22 | 16 | 1238 | 12136 | |
| | | | | OFF | 2 | 48 | 44 | 137 | 8E | 683472 | 625424 | 17 | 3 | 23 | 17 | 1231 | 12197 | |
| 135 | 7 | 1 | 21 | ON | 2 | 51 | 56 | 116 | 38E | 687312 | 629488 | 17 | 4 | 51 | 42 | 1237 | 17582 | |
| | | | | OFF | 2 | 48 | 44 | 114 | 52E | 683216 | 625152 | 17 | 4 | 52 | 31 | 1231 | 17551 | |
| 135 | 7 | 3 | 49 | ON | 2 | 23 | 3 | 185 | 55E | 596832 | 617696 | 17 | 4 | 58 | 55 | 12 | 2 | 17935 |
| | | | | OFF | 2 | 15 | 38 | 183 | 58E | 683632 | 625584 | 17 | 5 | 8 | 45 | 1156 | 18845 | |
| 136 | 7 | 1 | 17 | ON | 2 | 41 | 48 | 89 | 34E | 596384 | 617984 | 17 | 6 | 23 | 38 | 1221 | 23818 | |
| | | | | OFF | 2 | 39 | 1 | 88 | 35E | 594672 | 616288 | 17 | 6 | 24 | 18 | 1218 | 23858 | |
| 137 | 8 | 1 | 86 | ON | 2 | 54 | 8 | 73 | 8E | 689688 | 631776 | 17 | 7 | 49 | 36 | 1241 | 28176 | |
| | | | | OFF | 2 | 41 | 8 | 67 | 6E | 595776 | 617448 | 17 | 7 | 52 | 58 | 1221 | 28378 | |
| 137 | 8 | 8 | 28 | ON | 2 | 28 | 22 | 62 | 53E | 593368 | 614928 | 17 | 7 | 56 | 1 | 12 | 7 | 28561 |
| | | | | OFF | 2 | 25 | 16 | 62 | 8E | 594688 | 616328 | 17 | 7 | 56 | 47 | 12 | 4 | 28687 |
| 138 | 8 | 6 | 88 | ON | 2 | 2 | 8 | 33 | 52E | 638384 | 653264 | 17 | 9 | 31 | 44 | 1147 | 34384 | |
| | | | | OFF | 3 | 18 | 28 | 38 | 49E | 668896 | 692464 | 17 | 9 | 34 | 53 | 1138 | 34493 | |
| 148 | 7 | 1 | 42 | ON | 2 | 28 | 49 | 3 | 47W | 593376 | 614944 | 17 | 12 | 23 | 31 | 12 | 8 | 44611 |
| | | | | OFF | 2 | 22 | 26 | 5 | 34W | 596896 | 618592 | 17 | 12 | 25 | 6 | 12 | 2 | 44786 |
| 145 | 4 | 2 | 19 | ON | 2 | 35 | 29 | 113 | 1W | 592944 | 614496 | 17 | 19 | 47 | 58 | 1215 | 71278 | |
| | | | | OFF | 2 | 32 | 32 | 113 | 58W | 592832 | 614384 | 17 | 19 | 48 | 34 | 1212 | 71314 | |
| 149 | 7 | 6 | 54 | ON | 3 | 26 | 43 | 141 | 39E | 735616 | 762544 | 18 | 2 | 8 | 2 | 1126 | 7282 | |
| | | | | OFF | 3 | 36 | 49 | 138 | 38E | 788832 | 889472 | 18 | 2 | 2 | 35 | 1116 | 7355 | |
| 158 | 2 | 4 | 47 | ON | 3 | 22 | 8 | 128 | 42E | 715824 | 742888 | 18 | 3 | 28 | 1 | 1138 | 12481 | |
| | | | | OFF | 3 | 38 | 35 | 118 | 15E | 752768 | 788352 | 18 | 3 | 38 | 11 | 1123 | 12611 | |
| 151 | 6 | 3 | 56 | ON | 2 | 48 | 2 | 115 | 8E | 593584 | 615168 | 18 | 4 | 41 | 43 | 1221 | 16983 | |
| | | | | OFF | 2 | 31 | 35 | 112 | 18E | 592752 | 614384 | 18 | 4 | 43 | 49 | 1212 | 17829 | |
| 152 | 6 | 2 | 76 | ON | 2 | 45 | 48 | 95 | 3E | 596784 | 618488 | 18 | 6 | 9 | 27 | 1229 | 22167 | |
| | | | | OFF | 2 | 34 | 21 | 98 | 47E | 592368 | 613984 | 18 | 6 | 12 | 19 | 1215 | 22339 | |
| 153 | 8 | 2 | 79 | ON | 2 | 51 | 4 | 75 | 19E | 681328 | 623288 | 18 | 7 | 37 | 16 | 1238 | 27436 | |
| | | | | OFF | 2 | 39 | 15 | 78 | 13E | 593848 | 614592 | 18 | 7 | 48 | 14 | 1228 | 27614 | |
| 154 | 8 | 6 | 64 | ON | 3 | 3 | 35 | 36 | 19E | 658288 | 673928 | 18 | 9 | 28 | 2 | 1145 | 33682 | |

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| | | | | | | | | | | | | | | | | | |
|-----|-----|---|----|----|-----|-----|--------|--------|-----|--------|--------|----|------|-------|-------|------|-------|
| | OFF | 3 | 14 | 15 | 33 | 42E | 686384 | 711368 | 18 | 9 | 22 | 42 | 1137 | 33762 | | | |
| 161 | 6 | 8 | 12 | ON | 2 | 32 | 23 | 118 | 5W | 592288 | 613824 | 18 | 19 | 35 | 5 | 1214 | 78585 |
| | OFF | 2 | 38 | 26 | 118 | 41W | 592944 | 614496 | 18 | 19 | 35 | 34 | 1212 | 78534 | | | |
| 165 | 2 | 3 | 26 | ON | 3 | 16 | 59 | 148 | 16E | 699824 | 725392 | 19 | 1 | 43 | 51 | 1136 | 6231 |
| | OFF | 3 | 21 | 38 | 147 | 4E | 717776 | 744832 | 19 | 1 | 44 | 59 | 1133 | 6299 | | | |
| 165 | 2 | 5 | 24 | ON | 3 | 26 | 8 | 145 | 58E | 736544 | 763584 | 19 | 1 | 46 | 7 | 1129 | 6367 |
| | OFF | 3 | 38 | 24 | 144 | 33E | 755488 | 783168 | 19 | 1 | 47 | 14 | 1125 | 6434 | | | |
| 165 | 2 | 7 | 23 | ON | 3 | 34 | 51 | 143 | 8E | 775232 | 883664 | 19 | 1 | 48 | 21 | 1128 | 6581 |
| | OFF | 3 | 39 | 19 | 141 | 36E | 795312 | 824512 | 19 | 1 | 49 | 29 | 1115 | 6569 | | | |
| 166 | 2 | 4 | 54 | ON | 3 | 28 | 19 | 125 | 9E | 713136 | 739216 | 19 | 3 | 13 | 47 | 1134 | 11627 |
| | OFF | 3 | 38 | 1 | 122 | 25E | 753968 | 781584 | 19 | 3 | 16 | 14 | 1125 | 11774 | | | |
| 167 | 6 | 3 | 51 | ON | 2 | 48 | 22 | 119 | 8E | 592384 | 613848 | 19 | 4 | 27 | 47 | 1224 | 16867 |
| | OFF | 2 | 32 | 35 | 116 | 29E | 592592 | 614144 | 19 | 4 | 29 | 43 | 1215 | 16183 | | | |
| 168 | 6 | 2 | 57 | ON | 2 | 43 | 59 | 98 | 19E | 593828 | 615184 | 19 | 5 | 55 | 59 | 1229 | 21359 |
| | OFF | 2 | 35 | 16 | 95 | 6E | 592896 | 613632 | 19 | 5 | 58 | 9 | 1218 | 21489 | | | |
| 169 | 3 | 2 | 35 | ON | 2 | 47 | 33 | 77 | 37E | 595392 | 617848 | 19 | 7 | 24 | 18 | 1234 | 26658 |
| | OFF | 2 | 42 | 14 | 75 | 23E | 592832 | 614384 | 19 | 7 | 25 | 38 | 1226 | 26738 | | | |
| 178 | 6 | 3 | 34 | ON | 2 | 49 | 34 | 56 | 21E | 596464 | 618168 | 19 | 8 | 52 | 45 | 1237 | 31965 |
| | OFF | 2 | 44 | 23 | 54 | 8E | 593376 | 614968 | 19 | 8 | 54 | 3 | 1229 | 32843 | | | |
| 181 | 7 | 3 | 32 | ON | 3 | 23 | 38 | 158 | 45E | 729584 | 756288 | 28 | 1 | 38 | 47 | 1133 | 5447 |
| | OFF | 3 | 29 | 24 | 149 | 4E | 754368 | 782888 | 28 | 1 | 32 | 17 | 1128 | 5537 | | | |
| 182 | 1 | 4 | 26 | ON | 3 | 4 | 42 | 133 | 18E | 668464 | 684568 | 28 | 2 | 55 | 7 | 1148 | 18587 |
| | OFF | 3 | 9 | 6 | 132 | 14E | 674992 | 699632 | 28 | 2 | 56 | 13 | 1144 | 18573 | | | |
| 182 | 1 | 6 | 25 | ON | 3 | 13 | 38 | 131 | 9E | 698592 | 715888 | 28 | 2 | 57 | 19 | 1141 | 18639 |
| | OFF | 3 | 17 | 51 | 138 | 2E | 787888 | 732928 | 28 | 2 | 58 | 25 | 1138 | 18785 | | | |
| 182 | 1 | 8 | 23 | ON | 3 | 22 | 18 | 128 | 51E | 724832 | 751344 | 28 | 2 | 59 | 32 | 1134 | 18772 |
| | OFF | 3 | 26 | 37 | 127 | 39E | 742752 | 769952 | 28 | 3 | 8 | 37 | 1131 | 18837 | | | |
| 184 | 6 | 2 | 58 | ON | 2 | 42 | 47 | 182 | 6E | 598576 | 612848 | 28 | 5 | 41 | 23 | 1229 | 28483 |
| | OFF | 2 | 35 | 7 | 99 | 28E | 591152 | 612648 | 28 | 5 | 43 | 18 | 1228 | 28598 | | | |
| 185 | 8 | 5 | 74 | ON | 2 | 38 | 16 | 75 | 38E | 593688 | 615264 | 28 | 7 | 13 | 32 | 1215 | 26812 |
| | OFF | 2 | 19 | 5 | 72 | 28E | 685584 | 627616 | 28 | 7 | 16 | 19 | 12 | 6 | 26179 | | |
| 186 | 6 | 4 | 31 | ON | 2 | 45 | 59 | 58 | 58E | 598976 | 612464 | 28 | 8 | 38 | 39 | 1234 | 31119 |
| | OFF | 2 | 41 | 16 | 57 | 4E | 598128 | 611584 | 28 | 8 | 39 | 58 | 1227 | 31198 | | | |
| 187 | 2 | 2 | 16 | ON | 2 | 5 | 4 | 24 | 32E | 633688 | 656672 | 28 | 18 | 17 | 52 | 1155 | 37872 |
| | OFF | 2 | 2 | 32 | 23 | 55E | 648288 | 663536 | 28 | 18 | 18 | 38 | 1154 | 37118 | | | |
| 188 | 2 | 2 | 46 | ON | 2 | 24 | 52 | 7 | 21E | 597936 | 619688 | 28 | 11 | 41 | 59 | 1211 | 42119 |
| | OFF | 2 | 17 | 56 | 5 | 38E | 687168 | 629264 | 28 | 11 | 43 | 42 | 12 | 5 | 42222 | | |
| 194 | 9 | 1 | 13 | ON | 2 | 38 | 18 | 121 | 49W | 588352 | 689728 | 28 | 28 | 32 | 46 | 1225 | 73966 |
| | OFF | 2 | 36 | 13 | 122 | 29W | 588896 | 618384 | 28 | 28 | 33 | 15 | 1223 | 73995 | | | |

PHOTOGRAPHIC SUMMARY

| FWD PAN CAMERA NO 198 8.2258 SLIT W/23A FILTER 3484 FILM | | | | | | | | | | | | |
|--|-----|------|----|-------|-------|-----|------------|-------|-------|-------|-------|-------|
| OPN NO | FRA | FEET | ET | S-EL | S-DIR | EV | FULL | INT | PRI | | | |
| 64 | 5 | 8 | 11 | 29.1 | ON | 388 | 39.7 | -6.6 | 12.23 | 12.39 | 11.79 | 11.19 |
| | | | | | OFF | 381 | 41.5 | -6.8 | 12.24 | 12.48 | 11.88 | 11.28 |
| 66 | 8 | 8 | 3 | 7.9 | ON | 169 | 14.1 | -5.4 | 11.41 | 11.75 | 11.15 | 18.55 |
| | | | | | OFF | 169 | 15.7 | -5.4 | 11.41 | 11.85 | 11.25 | 18.65 |
| 68 | 7 | 3 | 22 | 58.2 | ON | 288 | 88.7 | -31.8 | 12.17 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 284 | 83.3 | -46.7 | 12.15 | 12.42 | 11.82 | 11.22 |
| 68 | 7 | 4 | 43 | 113.7 | ON | 278 | 83.8-127.3 | | 12.88 | 12.42 | 11.82 | 11.22 |

SECRET

WLUK

| | | | | | | | | | | | |
|----|---|---|-----|-------|-----|-----|-------------|-------|-------|-------|-------|
| 69 | 1 | 3 | 58 | 132.2 | OFF | 259 | 78.4-154.9 | 12.82 | 12.42 | 11.82 | 11.22 |
| | | | | | ON | 299 | 71.8 -15.1 | 12.23 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 291 | 78.3 -24.8 | 12.19 | 12.42 | 11.82 | 11.22 |
| 71 | 6 | 3 | 34 | 89.9 | ON | 381 | 48.8 -6.8 | 12.24 | 12.39 | 11.79 | 11.19 |
| | | | | | OFF | 384 | 45.2 -6.9 | 12.25 | 12.41 | 11.81 | 11.21 |
| 72 | 1 | 8 | 13 | 34.4 | ON | 178 | -67.3 -12.6 | 11.42 | 8.8 | 8.8 | 8.8 |
| | | | | | OFF | 171 | -64.3 -11.2 | 11.42 | 8.8 | 8.8 | 8.8 |
| 72 | 1 | 2 | 17 | 45.8 | ON | 279 | 28.5 -5.3 | 12.12 | 12.88 | 11.48 | 10.88 |
| | | | | | OFF | 282 | 23.3 -5.4 | 12.14 | 12.17 | 11.57 | 10.97 |
| 72 | 1 | 4 | 58 | 153.4 | ON | 289 | 27.7 -5.5 | 12.18 | 12.26 | 11.66 | 11.86 |
| | | | | | OFF | 298 | 36.6 -6.1 | 12.22 | 12.36 | 11.76 | 11.16 |
| 73 | 6 | 2 | 88 | 211.6 | ON | 278 | 19.9 -5.3 | 12.12 | 12.86 | 11.46 | 10.86 |
| | | | | | OFF | 294 | 32.2 -5.7 | 12.28 | 12.32 | 11.72 | 11.12 |
| 74 | 4 | 1 | 36 | 95.2 | ON | 264 | 11.6 -5.1 | 12.85 | 11.56 | 10.96 | 10.36 |
| | | | | | OFF | 274 | 17.6 -5.2 | 12.18 | 11.96 | 11.36 | 10.76 |
| 74 | 4 | 2 | 42 | 111.1 | ON | 386 | 51.3 -7.6 | 12.26 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 386 | 57.5 -8.9 | 12.26 | 12.42 | 11.82 | 11.22 |
| 75 | 4 | 1 | 38 | 188.5 | ON | 386 | 57.2 -8.8 | 12.26 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 384 | 62.9 -18.4 | 12.25 | 12.42 | 11.82 | 11.22 |
| 77 | 9 | 1 | 22 | 58.2 | ON | 298 | 71.8 -14.4 | 12.22 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 295 | 74.2 -17.4 | 12.28 | 12.42 | 11.82 | 11.22 |
| 79 | 5 | 8 | 16 | 42.3 | ON | 293 | 38.8 -5.4 | 12.28 | 12.29 | 11.69 | 11.89 |
| | | | | | OFF | 296 | 32.5 -5.6 | 12.21 | 12.33 | 11.73 | 11.13 |
| 80 | 5 | 8 | 8 | 21.2 | ON | 381 | 38.7 -5.9 | 12.24 | 12.38 | 11.78 | 11.18 |
| | | | | | OFF | 382 | 48.8 -6.8 | 12.24 | 12.39 | 11.79 | 11.19 |
| 81 | 5 | 8 | 17 | 45.8 | ON | 324 | 35.7 -5.7 | 12.34 | 12.36 | 11.76 | 11.16 |
| | | | | | OFF | 326 | 38.3 -5.9 | 12.35 | 12.38 | 11.78 | 11.18 |
| 84 | 7 | 5 | 41 | 188.4 | ON | 268 | 76.8-161.2 | 12.87 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 255 | 69.2-167.2 | 12.88 | 12.42 | 11.82 | 11.22 |
| 85 | 2 | 6 | 16 | 42.3 | ON | 281 | 81.9-146.6 | 12.14 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 276 | 79.5-154.8 | 12.11 | 12.42 | 11.82 | 11.22 |
| 85 | 2 | 7 | 18 | 47.6 | ON | 278 | 77.2-159.6 | 12.88 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 264 | 74.3-163.4 | 12.85 | 12.42 | 11.82 | 11.22 |
| 86 | 3 | 2 | 57 | 158.8 | ON | 388 | 24.9 -5.8 | 12.23 | 12.21 | 11.61 | 11.81 |
| | | | | | OFF | 387 | 33.8 -5.4 | 12.26 | 12.34 | 11.74 | 11.14 |
| 87 | 3 | 2 | 25 | 66.1 | ON | 383 | 28.4 -5.1 | 12.25 | 12.27 | 11.67 | 11.87 |
| | | | | | OFF | 386 | 32.3 -5.3 | 12.26 | 12.32 | 11.72 | 11.12 |
| 88 | 8 | 2 | 111 | 293.6 | ON | 382 | 26.5 -5.8 | 12.24 | 12.24 | 11.64 | 11.84 |
| | | | | | OFF | 311 | 43.4 -6.1 | 12.28 | 12.41 | 11.81 | 11.21 |
| 89 | 5 | 4 | 98 | 259.2 | ON | 278 | 7.4 -4.8 | 12.12 | 11.11 | 10.51 | 9.91 |
| | | | | | OFF | 298 | 22.8 -4.9 | 12.22 | 12.15 | 11.55 | 10.95 |
| 89 | 5 | 8 | 42 | 111.1 | ON | 384 | 29.2 -5.1 | 12.25 | 12.28 | 11.68 | 11.88 |
| | | | | | OFF | 388 | 35.6 -5.4 | 12.27 | 12.35 | 11.75 | 11.15 |
| 90 | 2 | 4 | 19 | 58.3 | ON | 256 | 82.4-145.7 | 12.88 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 258 | 79.4-156.8 | 11.97 | 12.42 | 11.82 | 11.22 |
| 94 | 2 | 1 | 84 | 222.2 | ON | 299 | 62.7 -9.2 | 12.23 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 285 | 75.4 -16.8 | 12.15 | 12.42 | 11.82 | 11.22 |
| 95 | 8 | 2 | 31 | 82.8 | ON | 383 | 31.8 -5.8 | 12.25 | 12.32 | 11.72 | 11.12 |
| | | | | | OFF | 386 | 36.7 -5.3 | 12.26 | 12.36 | 11.76 | 11.16 |
| 95 | 8 | 6 | 16 | 42.3 | ON | 382 | 58.4 -8.8 | 12.24 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 388 | 61.8 -8.7 | 12.23 | 12.42 | 11.82 | 11.22 |

GRADE

| | | | | | | | | | | | | |
|-----|---|---|----|-------|-----|-----|------|--------|-------|-------|-------|-------|
| 180 | 2 | 3 | 48 | 185.8 | ON | 258 | 82.8 | -146.1 | 11.97 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 239 | 76.2 | -162.9 | 11.91 | 12.42 | 11.82 | 11.22 |
| 181 | 4 | 3 | 15 | 39.7 | ON | 284 | 74.5 | -15.1 | 12.15 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 281 | 76.8 | -17.8 | 12.14 | 12.42 | 11.82 | 11.22 |
| 181 | 4 | 9 | 18 | 47.6 | ON | 248 | 77.8 | -161.9 | 11.91 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 236 | 73.7 | -165.5 | 11.88 | 12.42 | 11.82 | 11.22 |
| 182 | 3 | 3 | 45 | 119.8 | ON | 382 | 27.9 | -4.6 | 12.24 | 12.26 | 11.66 | 11.86 |
| | | | | | OFF | 385 | 34.9 | -5.8 | 12.26 | 12.35 | 11.75 | 11.15 |
| 183 | 3 | 2 | 44 | 116.4 | ON | 383 | 38.6 | -4.7 | 12.25 | 12.38 | 11.78 | 11.18 |
| | | | | | OFF | 386 | 37.4 | -5.1 | 12.26 | 12.37 | 11.77 | 11.17 |
| 184 | 3 | 5 | 89 | 235.4 | ON | 382 | 27.6 | -4.6 | 12.24 | 12.26 | 11.66 | 11.86 |
| | | | | | OFF | 387 | 41.4 | -5.3 | 12.26 | 12.48 | 11.88 | 11.28 |
| 185 | 2 | 2 | 19 | 58.3 | ON | 299 | 23.7 | -4.4 | 12.22 | 12.18 | 11.58 | 18.98 |
| | | | | | OFF | 381 | 26.7 | -4.5 | 12.24 | 12.24 | 11.64 | 11.84 |
| 186 | 4 | 4 | 23 | 68.8 | ON | 386 | 48.1 | -5.9 | 12.26 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 385 | 51.7 | -6.3 | 12.25 | 12.42 | 11.82 | 11.22 |
| 187 | 7 | 3 | 17 | 45.8 | ON | 387 | 43.1 | -5.3 | 12.26 | 12.48 | 11.88 | 11.28 |
| | | | | | OFF | 387 | 45.8 | -5.6 | 12.26 | 12.42 | 11.82 | 11.22 |
| 111 | 1 | 1 | 24 | 63.5 | ON | 383 | 27.6 | -4.3 | 12.24 | 12.26 | 11.66 | 11.86 |
| | | | | | OFF | 385 | 31.4 | -4.5 | 12.25 | 12.31 | 11.71 | 11.11 |
| 113 | 2 | 8 | 17 | 45.8 | ON | 386 | 36.8 | -4.6 | 12.26 | 12.36 | 11.76 | 11.16 |
| | | | | | OFF | 387 | 38.7 | -4.8 | 12.26 | 12.38 | 11.78 | 11.18 |
| 117 | 2 | 4 | 46 | 121.7 | ON | 259 | 86.8 | -62.2 | 12.82 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 245 | 83.8 | -149.3 | 11.94 | 12.42 | 11.82 | 11.22 |
| 117 | 2 | 7 | 21 | 55.5 | ON | 239 | 79.3 | -168.4 | 11.98 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 234 | 75.6 | -165.5 | 11.88 | 12.42 | 11.82 | 11.22 |
| 118 | 4 | 6 | 17 | 45.8 | ON | 278 | 79.2 | -19.3 | 12.88 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 266 | 82.8 | -26.3 | 12.86 | 12.42 | 11.82 | 11.22 |
| 121 | 3 | 4 | 35 | 92.6 | ON | 298 | 21.8 | -3.9 | 12.22 | 12.12 | 11.52 | 18.92 |
| | | | | | OFF | 382 | 27.3 | -4.8 | 12.24 | 12.25 | 11.65 | 11.85 |
| 126 | 8 | 5 | 43 | 113.7 | ON | 223 | 69.5 | -178.4 | 11.88 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 212 | 68.8 | -173.8 | 11.73 | 12.42 | 11.82 | 11.22 |
| 127 | 2 | 1 | 15 | 39.7 | ON | 292 | 61.7 | -7.8 | 12.19 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 298 | 64.8 | -7.6 | 12.18 | 12.42 | 11.82 | 11.22 |
| 128 | 9 | 3 | 18 | 47.6 | ON | 385 | 37.3 | -4.2 | 12.26 | 12.37 | 11.77 | 11.17 |
| | | | | | OFF | 385 | 48.2 | -4.4 | 12.26 | 12.39 | 11.79 | 11.19 |
| 133 | 3 | 1 | 18 | 47.6 | ON | 294 | 14.8 | -3.5 | 12.28 | 11.88 | 11.28 | 18.68 |
| | | | | | OFF | 296 | 17.7 | -3.5 | 12.21 | 11.96 | 11.36 | 18.76 |
| 134 | 5 | 6 | 26 | 68.8 | ON | 296 | 17.5 | -3.5 | 12.21 | 11.95 | 11.35 | 18.75 |
| | | | | | OFF | 388 | 21.6 | -3.5 | 12.23 | 12.12 | 11.52 | 18.92 |
| 135 | 7 | 1 | 21 | 55.5 | ON | 297 | 18.3 | -3.5 | 12.22 | 11.99 | 11.39 | 18.79 |
| | | | | | OFF | 388 | 21.6 | -3.5 | 12.23 | 12.12 | 11.52 | 18.92 |
| 135 | 7 | 3 | 49 | 129.6 | ON | 382 | 47.9 | -4.7 | 12.24 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 297 | 55.4 | -5.5 | 12.22 | 12.42 | 11.82 | 11.22 |
| 136 | 7 | 1 | 17 | 45.8 | ON | 384 | 28.9 | -3.6 | 12.25 | 12.28 | 11.68 | 11.88 |
| | | | | | OFF | 385 | 31.6 | -3.7 | 12.25 | 12.31 | 11.71 | 11.11 |
| 137 | 8 | 1 | 86 | 227.5 | ON | 296 | 16.1 | -3.4 | 12.21 | 11.88 | 11.28 | 18.68 |
| | | | | | OFF | 384 | 29.4 | -3.6 | 12.25 | 12.29 | 11.69 | 11.89 |
| 137 | 8 | 8 | 28 | 52.9 | ON | 385 | 42.4 | -4.2 | 12.25 | 12.48 | 11.88 | 11.28 |

| | | | | | | | | | | | | |
|-----|---|----|-------|-------|------|--------|-------|--------|-------|-------|-------|-------|
| | | | OFF | 384 | 45.6 | -4.4 | 12.25 | 12.41 | 11.81 | 11.21 | | |
| 138 | 6 | 88 | 211.6 | ON | 281 | 69.8 | -8.5 | 12.14 | 12.42 | 11.82 | 11.22 | |
| | | | OFF | 261 | 81.6 | -21.8 | 12.83 | 12.42 | 11.82 | 11.22 | | |
| 148 | 7 | 1 | 42 | 111.1 | ON | 385 | 41.9 | -4.1 | 12.25 | 12.48 | 11.88 | 11.28 |
| | | | OFF | 382 | 48.4 | -4.5 | 12.24 | 12.42 | 11.82 | 11.22 | | |
| 145 | 4 | 2 | 19 | 58.3 | ON | 385 | 35.8 | -3.6 | 12.26 | 12.35 | 11.75 | 11.15 |
| | | | OFF | 385 | 38.8 | -3.7 | 12.26 | 12.37 | 11.77 | 11.17 | | |
| 149 | 7 | 6 | 54 | 142.8 | ON | 234 | 81.1 | -162.1 | 11.87 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 221 | 78.9 | -171.5 | 11.79 | 12.42 | 11.82 | 11.22 | | |
| 158 | 2 | 4 | 47 | 124.3 | ON | 248 | 85.5 | -143.4 | 11.91 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 229 | 77.2 | -167.6 | 11.84 | 12.42 | 11.82 | 11.22 | | |
| 151 | 6 | 3 | 56 | 148.1 | ON | 388 | 38.2 | -3.2 | 12.27 | 12.38 | 11.78 | 11.18 |
| | | | OFF | 387 | 38.9 | -3.5 | 12.27 | 12.38 | 11.78 | 11.18 | | |
| 152 | 6 | 2 | 76 | 281.8 | ON | 386 | 24.3 | -3.1 | 12.26 | 12.19 | 11.59 | 18.99 |
| | | | OFF | 388 | 36.1 | -3.4 | 12.27 | 12.36 | 11.76 | 11.16 | | |
| 153 | 8 | 2 | 79 | 289.8 | ON | 383 | 18.8 | -3.8 | 12.24 | 12.81 | 11.41 | 18.81 |
| | | | OFF | 388 | 31.8 | -3.2 | 12.27 | 12.31 | 11.71 | 11.11 | | |
| 154 | 8 | 6 | 65 | 171.9 | ON | 278 | 74.5 | -9.8 | 12.88 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 252 | 84.9 | -38.9 | 11.98 | 12.42 | 11.82 | 11.22 | | |
| 161 | 6 | 8 | 12 | 31.7 | ON | 388 | 37.9 | -3.1 | 12.27 | 12.37 | 11.77 | 11.17 |
| | | | OFF | 388 | 39.9 | -3.2 | 12.27 | 12.39 | 11.79 | 11.19 | | |
| 165 | 2 | 3 | 26 | 68.8 | ON | 254 | 87.1 | -52.9 | 11.99 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 246 | 86.3 | -141.1 | 11.94 | 12.42 | 11.82 | 11.22 | | |
| 165 | 2 | 5 | 24 | 63.5 | ON | 239 | 82.2 | -162.7 | 11.98 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 233 | 77.8 | -168.9 | 11.87 | 12.42 | 11.82 | 11.22 | | |
| 165 | 2 | 7 | 23 | 68.8 | ON | 227 | 73.3 | -171.9 | 11.83 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 222 | 68.7 | -173.5 | 11.79 | 12.42 | 11.82 | 11.22 | | |
| 166 | 2 | 4 | 54 | 142.8 | ON | 247 | 87.2 | -125.3 | 11.95 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 234 | 78.2 | -168.7 | 11.87 | 12.42 | 11.82 | 11.22 | | |
| 167 | 6 | 3 | 51 | 134.9 | ON | 385 | 29.6 | -2.7 | 12.26 | 12.29 | 11.69 | 11.89 |
| | | | OFF | 386 | 37.6 | -2.9 | 12.26 | 12.37 | 11.77 | 11.17 | | |
| 168 | 6 | 2 | 58 | 153.4 | ON | 384 | 25.9 | -2.6 | 12.25 | 12.23 | 11.63 | 11.83 |
| | | | OFF | 386 | 34.8 | -2.8 | 12.26 | 12.35 | 11.75 | 11.15 | | |
| 169 | 3 | 2 | 35 | 92.6 | ON | 382 | 22.2 | -2.5 | 12.24 | 12.14 | 11.54 | 18.94 |
| | | | OFF | 384 | 27.7 | -2.6 | 12.25 | 12.26 | 11.66 | 11.86 | | |
| 178 | 6 | 3 | 34 | 89.9 | ON | 388 | 28.1 | -2.5 | 12.23 | 12.86 | 11.46 | 18.86 |
| | | | OFF | 383 | 25.4 | -2.5 | 12.25 | 12.22 | 11.62 | 11.82 | | |
| 181 | 7 | 3 | 33 | 87.3 | ON | 238 | 85.8 | -157.6 | 11.98 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 238 | 79.2 | -169.8 | 11.85 | 12.42 | 11.82 | 11.22 | | |
| 182 | 1 | 4 | 26 | 68.8 | ON | 269 | 75.3 | -7.4 | 12.87 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 262 | 79.7 | -18.5 | 12.83 | 12.42 | 11.82 | 11.22 | | |
| 182 | 1 | 6 | 25 | 66.1 | ON | 254 | 84.1 | -18.4 | 11.99 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 246 | 87.8 | -57.6 | 11.95 | 12.42 | 11.82 | 11.22 | | |
| 182 | 1 | 8 | 23 | 68.8 | ON | 239 | 86.1 | -158.9 | 11.91 | 12.42 | 11.82 | 11.22 |
| | | | OFF | 234 | 82.8 | -166.4 | 11.87 | 12.42 | 11.82 | 11.22 | | |
| 184 | 6 | 2 | 51 | 134.9 | ON | 385 | 26.8 | -2.2 | 12.26 | 12.24 | 11.64 | 11.84 |
| | | | OFF | 386 | 34.7 | -2.3 | 12.26 | 12.35 | 11.75 | 11.15 | | |
| 185 | 8 | 5 | 74 | 195.7 | ON | 385 | 39.6 | -2.4 | 12.26 | 12.39 | 11.79 | 11.19 |
| | | | OFF | 299 | 51.8 | -2.9 | 12.23 | 12.42 | 11.82 | 11.22 | | |
| 186 | 6 | 4 | 31 | 82.8 | ON | 384 | 23.5 | -2.1 | 12.25 | 12.17 | 11.57 | 18.97 |
| | | | OFF | 386 | 28.3 | -2.1 | 12.26 | 12.27 | 11.67 | 11.87 | | |

| | | | | | | | | | | | | |
|-----|---|---|----|-------|-----|-----|------|------|-------|-------|-------|-------|
| 187 | 2 | 2 | 16 | 42.3 | ON | 283 | 65.2 | -4.2 | 12.15 | 12.42 | 11.82 | 11.22 |
| | | | | | OFF | 279 | 67.8 | -4.6 | 12.13 | 12.42 | 11.82 | 11.22 |
| 188 | 2 | 2 | 46 | 121.7 | ON | 303 | 45.1 | -2.5 | 12.24 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 298 | 52.1 | -2.8 | 12.22 | 12.42 | 11.82 | 11.22 |
| 194 | 9 | 1 | 12 | 31.7 | ON | 306 | 31.4 | -1.9 | 12.26 | 12.31 | 11.71 | 11.11 |
| | | | | | OFF | 306 | 33.4 | -2.8 | 12.26 | 12.33 | 11.73 | 11.13 |

PHOTOGRAPHIC SUMMARY

| AFT PAN | CAMERA | NO | 199 | 8.1750 | SLIT | W/21 | FILTER | 3484 | FILM | | | |
|---------|--------|------|-----|--------|-------|------|--------|--------|-------|-------|-------|-------|
| OPN NO | FRA | FEET | ET | S-EL | S-DIR | EV | FULL | INT | PRI | | | |
| 64 | 5 | 8 | 11 | 29.1 | ON | 385 | 39.7 | -6.5 | 12.59 | 12.72 | 12.12 | 11.52 |
| | | | | | OFF | 387 | 41.5 | -6.7 | 12.60 | 12.73 | 12.13 | 11.53 |
| 66 | 8 | 8 | 3 | 7.9 | ON | 218 | 14.8 | -5.8 | 11.77 | 12.87 | 11.47 | 10.87 |
| | | | | | OFF | 218 | 15.6 | -5.8 | 11.77 | 12.18 | 11.58 | 10.98 |
| 68 | 7 | 3 | 22 | 58.2 | ON | 378 | 88.6 | -32.8 | 12.53 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 364 | 83.2 | -46.8 | 12.51 | 12.75 | 12.15 | 11.55 |
| 68 | 7 | 4 | 43 | 113.7 | ON | 347 | 83.8 | -126.6 | 12.44 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 332 | 78.5 | -154.5 | 12.38 | 12.75 | 12.15 | 11.55 |
| 69 | 1 | 3 | 58 | 132.2 | ON | 384 | 71.8 | -15.3 | 12.59 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 374 | 78.3 | -25.8 | 12.55 | 12.75 | 12.15 | 11.55 |
| 71 | 6 | 3 | 34 | 89.9 | ON | 387 | 48.8 | -6.3 | 12.68 | 12.72 | 12.12 | 11.52 |
| | | | | | OFF | 391 | 45.3 | -6.9 | 12.61 | 12.74 | 12.14 | 11.54 |
| 72 | 1 | 8 | 13 | 34.4 | ON | 219 | -67.7 | -12.8 | 11.78 | 8.8 | 8.8 | 8.8 |
| | | | | | OFF | 228 | -64.7 | -11.3 | 11.79 | 8.8 | 8.8 | 8.8 |
| 72 | 1 | 2 | 17 | 45.8 | ON | 358 | 28.5 | -5.8 | 12.49 | 12.41 | 11.81 | 11.21 |
| | | | | | OFF | 363 | 23.3 | -5.2 | 12.51 | 12.58 | 11.98 | 11.38 |
| 72 | 1 | 4 | 58 | 153.4 | ON | 371 | 27.7 | -5.4 | 12.54 | 12.59 | 11.99 | 11.39 |
| | | | | | OFF | 383 | 36.6 | -6.8 | 12.58 | 12.69 | 12.89 | 11.49 |
| 73 | 6 | 2 | 88 | 211.6 | ON | 357 | 19.9 | -5.8 | 12.48 | 12.39 | 11.79 | 11.19 |
| | | | | | OFF | 378 | 32.2 | -5.6 | 12.56 | 12.65 | 12.85 | 11.45 |
| 74 | 4 | 1 | 35 | 92.6 | ON | 348 | 11.6 | -4.6 | 12.41 | 11.88 | 11.28 | 10.68 |
| | | | | | OFF | 352 | 17.5 | -4.9 | 12.46 | 12.28 | 11.68 | 11.08 |
| 74 | 4 | 2 | 42 | 111.1 | ON | 393 | 51.4 | -7.6 | 12.62 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 393 | 57.6 | -8.9 | 12.62 | 12.75 | 12.15 | 11.55 |
| 75 | 4 | 1 | 38 | 188.5 | ON | 393 | 57.2 | -8.8 | 12.62 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 391 | 62.9 | -10.5 | 12.61 | 12.75 | 12.15 | 11.55 |
| 77 | 9 | 1 | 22 | 58.2 | ON | 382 | 71.8 | -14.5 | 12.58 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 378 | 74.2 | -17.5 | 12.57 | 12.75 | 12.15 | 11.55 |
| 79 | 5 | 8 | 16 | 42.3 | ON | 376 | 38.8 | -5.3 | 12.56 | 12.62 | 12.82 | 11.42 |
| | | | | | OFF | 388 | 32.5 | -5.5 | 12.57 | 12.66 | 12.86 | 11.46 |
| 80 | 5 | 8 | 8 | 21.2 | ON | 387 | 38.7 | -5.9 | 12.68 | 12.71 | 12.11 | 11.51 |
| | | | | | OFF | 388 | 48.8 | -6.8 | 12.68 | 12.72 | 12.12 | 11.52 |
| 81 | 5 | 8 | 17 | 45.8 | ON | 415 | 35.7 | -5.6 | 12.78 | 12.69 | 12.89 | 11.49 |
| | | | | | OFF | 418 | 38.3 | -5.8 | 12.71 | 12.71 | 12.11 | 11.51 |
| 84 | 7 | 5 | 41 | 188.4 | ON | 344 | 76.1 | -168.9 | 12.43 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 327 | 69.4 | -167.1 | 12.36 | 12.75 | 12.15 | 11.55 |
| 85 | 2 | 6 | 16 | 42.3 | ON | 368 | 82.8 | -146.8 | 12.49 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 354 | 79.6 | -154.4 | 12.47 | 12.75 | 12.15 | 11.55 |
| 85 | 2 | 7 | 18 | 47.6 | ON | 347 | 77.3 | -159.3 | 12.44 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 339 | 74.4 | -163.2 | 12.41 | 12.75 | 12.15 | 11.55 |



| | | | | | | | | | | |
|---------|-------|-------|-----|------|------|--------|-------|-------|-------|-------|
| 57 | 158.8 | ON | 385 | 24.9 | -4.8 | 12.59 | 12.54 | 11.94 | 11.34 | |
| | | OFF | 394 | 33.8 | -5.3 | 12.62 | 12.67 | 12.87 | 11.47 | |
| 87 3 2 | 25 | 66.1 | ON | 398 | 28.3 | -5.8 | 12.61 | 12.68 | 12.88 | 11.48 |
| | | | OFF | 393 | 32.3 | -5.2 | 12.62 | 12.65 | 12.85 | 11.45 |
| 88 8 2 | 118 | 298.9 | ON | 387 | 26.4 | -4.8 | 12.68 | 12.57 | 11.97 | 11.37 |
| | | | OFF | 399 | 43.4 | -6.8 | 12.64 | 12.74 | 12.14 | 11.54 |
| 89 5 4 | 98 | 259.2 | ON | 357 | 7.3 | -4.1 | 12.48 | 11.42 | 18.82 | 18.22 |
| | | | OFF | 383 | 22.8 | -4.6 | 12.58 | 12.48 | 11.88 | 11.28 |
| 89 5 8 | 42 | 111.1 | ON | 391 | 29.1 | -4.9 | 12.61 | 12.61 | 12.81 | 11.41 |
| | | | OFF | 396 | 35.5 | -5.3 | 12.63 | 12.68 | 12.88 | 11.48 |
| 98 2 4 | 19 | 58.3 | ON | 329 | 82.5 | -144.6 | 12.36 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 322 | 79.5 | -155.4 | 12.33 | 12.75 | 12.15 | 11.55 |
| 94 2 1 | 83 | 219.5 | ON | 383 | 62.6 | -9.2 | 12.58 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 365 | 75.3 | -16.9 | 12.51 | 12.75 | 12.15 | 11.55 |
| 95 8 2 | 31 | 82.8 | ON | 389 | 31.8 | -4.9 | 12.61 | 12.65 | 12.85 | 11.45 |
| | | | OFF | 392 | 36.7 | -5.2 | 12.62 | 12.69 | 12.89 | 11.49 |
| 95 8 6 | 16 | 42.3 | ON | 387 | 58.4 | -8.8 | 12.68 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 385 | 61.8 | -8.7 | 12.59 | 12.75 | 12.15 | 11.55 |
| 188 2 1 | 28 | 52.9 | ON | 357 | 78.8 | -28.8 | 12.48 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 351 | 81.8 | -27.8 | 12.46 | 12.75 | 12.15 | 11.55 |
| 188 2 3 | 48 | 185.8 | ON | 321 | 82.9 | -145.8 | 12.33 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 387 | 76.4 | -162.5 | 12.26 | 12.75 | 12.15 | 11.55 |
| 181 4 3 | 15 | 39.7 | ON | 364 | 74.4 | -15.2 | 12.51 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 368 | 76.7 | -17.9 | 12.49 | 12.75 | 12.15 | 11.55 |
| 181 4 9 | 18 | 47.6 | ON | 388 | 77.2 | -161.4 | 12.27 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 382 | 74.8 | -165.2 | 12.24 | 12.75 | 12.15 | 11.55 |
| 182 3 3 | 44 | 116.4 | ON | 387 | 27.8 | -4.5 | 12.68 | 12.59 | 11.99 | 11.39 |
| | | | OFF | 392 | 34.8 | -4.9 | 12.61 | 12.68 | 12.88 | 11.48 |
| 183 3 2 | 44 | 116.4 | ON | 389 | 38.6 | -4.6 | 12.61 | 12.63 | 12.83 | 11.43 |
| | | | OFF | 393 | 37.4 | -5.8 | 12.62 | 12.78 | 12.18 | 11.58 |
| 184 3 5 | 89 | 235.4 | ON | 387 | 27.6 | -4.4 | 12.68 | 12.59 | 11.99 | 11.39 |
| | | | OFF | 394 | 41.3 | -5.3 | 12.62 | 12.73 | 12.13 | 11.53 |
| 185 2 2 | 19 | 58.3 | ON | 383 | 23.6 | -4.2 | 12.58 | 12.51 | 11.91 | 11.31 |
| | | | OFF | 386 | 26.7 | -4.3 | 12.59 | 12.57 | 11.97 | 11.37 |
| 186 4 4 | 23 | 68.8 | ON | 393 | 48.8 | -5.8 | 12.62 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 391 | 51.7 | -6.3 | 12.61 | 12.75 | 12.15 | 11.55 |
| 187 7 3 | 17 | 45.8 | ON | 394 | 43.1 | -5.3 | 12.62 | 12.73 | 12.13 | 11.53 |
| | | | OFF | 393 | 45.7 | -5.6 | 12.62 | 12.75 | 12.15 | 11.55 |
| 111 1 1 | 24 | 63.5 | ON | 388 | 27.6 | -4.2 | 12.68 | 12.59 | 11.99 | 11.39 |
| | | | OFF | 391 | 31.4 | -4.4 | 12.61 | 12.64 | 12.84 | 11.44 |
| 113 2 8 | 17 | 45.8 | ON | 393 | 36.8 | -4.6 | 12.62 | 12.69 | 12.89 | 11.49 |
| | | | OFF | 394 | 38.6 | -4.7 | 12.62 | 12.71 | 12.11 | 11.51 |
| 117 2 4 | 45 | 119.8 | ON | 332 | 85.8 | -68.6 | 12.38 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 314 | 83.1 | -148.2 | 12.38 | 12.75 | 12.15 | 11.55 |
| 117 2 7 | 21 | 55.5 | ON | 387 | 79.5 | -159.8 | 12.26 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 381 | 75.8 | -165.1 | 12.23 | 12.75 | 12.15 | 11.55 |
| 118 4 6 | 17 | 45.8 | ON | 347 | 79.1 | -19.4 | 12.44 | 12.75 | 12.15 | 11.55 |
| | | | OFF | 341 | 81.8 | -26.2 | 12.42 | 12.75 | 12.15 | 11.55 |
| 121 3 4 | 35 | 92.6 | ON | 382 | 21.7 | -3.7 | 12.58 | 12.45 | 11.85 | 11.25 |
| | | | OFF | 387 | 27.3 | -3.9 | 12.68 | 12.58 | 11.98 | 11.38 |
| 126 8 5 | 44 | 116.4 | ON | 286 | 69.8 | -178.2 | 12.16 | 12.75 | 12.15 | 11.55 |

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|-----|---|---|----|-------|-----|-----|------------|-------|-------|-------|-------|
| 127 | 2 | 1 | 14 | 37.8 | OFF | 272 | 61.2-173.1 | 12.89 | 12.75 | 12.15 | 11.55 |
| | | | | | ON | 375 | 61.6 -7.1 | 12.55 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 372 | 63.9 -7.6 | 12.54 | 12.75 | 12.15 | 11.55 |
| 128 | 9 | 3 | 18 | 47.6 | ON | 392 | 37.2 -4.1 | 12.62 | 12.78 | 12.18 | 11.58 |
| | | | | | OFF | 392 | 48.1 -4.3 | 12.62 | 12.72 | 12.12 | 11.52 |
| 133 | 3 | 1 | 18 | 47.6 | ON | 376 | 14.8 -3.1 | 12.56 | 12.13 | 11.53 | 18.93 |
| | | | | | OFF | 388 | 17.7 -3.2 | 12.57 | 12.29 | 11.69 | 11.89 |
| 134 | 5 | 6 | 26 | 68.8 | ON | 388 | 17.4 -3.2 | 12.57 | 12.28 | 11.68 | 11.88 |
| | | | | | OFF | 384 | 21.6 -3.3 | 12.59 | 12.45 | 11.85 | 11.25 |
| 135 | 7 | 1 | 21 | 55.5 | ON | 381 | 18.2 -3.2 | 12.58 | 12.32 | 11.72 | 11.12 |
| | | | | | OFF | 384 | 21.6 -3.3 | 12.59 | 12.45 | 11.85 | 11.25 |
| 135 | 7 | 3 | 49 | 129.6 | ON | 388 | 47.9 -4.7 | 12.68 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 381 | 55.4 -5.5 | 12.58 | 12.75 | 12.15 | 11.55 |
| 136 | 7 | 1 | 17 | 45.8 | ON | 398 | 28.8 -3.5 | 12.61 | 12.61 | 12.81 | 11.41 |
| | | | | | OFF | 391 | 31.6 -3.6 | 12.61 | 12.64 | 12.84 | 11.44 |
| 137 | 8 | 1 | 86 | 227.5 | ON | 379 | 16.1 -3.1 | 12.57 | 12.21 | 11.61 | 11.81 |
| | | | | | OFF | 398 | 29.4 -3.5 | 12.61 | 12.62 | 12.82 | 11.42 |
| 137 | 8 | 8 | 28 | 52.9 | ON | 391 | 42.4 -4.2 | 12.61 | 12.73 | 12.13 | 11.53 |
| | | | | | OFF | 389 | 45.6 -4.4 | 12.61 | 12.74 | 12.14 | 11.54 |
| 138 | 8 | 6 | 88 | 211.6 | ON | 368 | 68.9 -8.6 | 12.58 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 335 | 81.4 -21.8 | 12.39 | 12.75 | 12.15 | 11.55 |
| 148 | 7 | 1 | 42 | 111.1 | ON | 391 | 41.9 -4.8 | 12.61 | 12.73 | 12.13 | 11.53 |
| | | | | | OFF | 387 | 48.4 -4.5 | 12.68 | 12.75 | 12.15 | 11.55 |
| 145 | 4 | 2 | 19 | 58.3 | ON | 392 | 35.8 -3.5 | 12.62 | 12.68 | 12.88 | 11.48 |
| | | | | | OFF | 391 | 38.8 -3.6 | 12.61 | 12.78 | 12.18 | 11.58 |
| 149 | 7 | 6 | 54 | 142.8 | ON | 381 | 81.3-161.4 | 12.23 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 284 | 71.2-171.4 | 12.15 | 12.75 | 12.15 | 11.55 |
| 158 | 2 | 4 | 47 | 124.3 | ON | 388 | 85.6-141.3 | 12.27 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 294 | 77.5-167.2 | 12.28 | 12.75 | 12.15 | 11.55 |
| 151 | 6 | 3 | 56 | 148.1 | ON | 395 | 38.2 -3.1 | 12.63 | 12.63 | 12.83 | 11.43 |
| | | | | | OFF | 394 | 38.9 -3.5 | 12.63 | 12.71 | 12.11 | 11.81 |
| 152 | 6 | 2 | 76 | 281.8 | ON | 392 | 24.3 -2.9 | 12.62 | 12.52 | 11.92 | 11.32 |
| | | | | | OFF | 395 | 36.8 -3.3 | 12.63 | 12.69 | 12.89 | 11.49 |
| 153 | 8 | 2 | 79 | 289.8 | ON | 388 | 18.8 -2.7 | 12.68 | 12.34 | 11.74 | 11.14 |
| | | | | | OFF | 395 | 31.8 -3.1 | 12.63 | 12.64 | 12.84 | 11.44 |
| 154 | 8 | 6 | 64 | 169.3 | ON | 346 | 74.4 -9.9 | 12.44 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 323 | 84.8 -38.4 | 12.34 | 12.75 | 12.15 | 11.55 |
| 161 | 6 | 8 | 12 | 31.7 | ON | 395 | 37.9 -3.1 | 12.63 | 12.78 | 12.18 | 11.58 |
| | | | | | OFF | 395 | 39.8 -3.2 | 12.63 | 12.72 | 12.12 | 11.52 |
| 165 | 2 | 3 | 26 | 68.8 | ON | 325 | 86.9 -58.6 | 12.35 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 315 | 86.4-138.3 | 12.38 | 12.75 | 12.15 | 11.55 |
| 165 | 2 | 5 | 24 | 63.5 | ON | 387 | 82.4-161.9 | 12.26 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 299 | 78.1-168.6 | 12.23 | 12.75 | 12.15 | 11.55 |
| 165 | 2 | 7 | 23 | 68.8 | ON | 292 | 73.6-171.7 | 12.19 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 284 | 69.8-173.5 | 12.15 | 12.75 | 12.15 | 11.55 |
| 166 | 2 | 4 | 54 | 142.8 | ON | 317 | 87.3-121.2 | 12.31 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 388 | 78.5-168.3 | 12.23 | 12.75 | 12.15 | 11.55 |
| 167 | 6 | 3 | 51 | 134.9 | ON | 393 | 29.6 -2.6 | 12.62 | 12.62 | 12.82 | 11.42 |
| | | | | | OFF | 395 | 37.5 -2.9 | 12.63 | 12.78 | 12.18 | 11.58 |
| 168 | 6 | 2 | 57 | 158.8 | ON | 391 | 25.8 -2.5 | 12.61 | 12.56 | 11.96 | 11.36 |
| | | | | | OFF | 395 | 34.8 -2.7 | 12.63 | 12.68 | 12.88 | 11.48 |

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|-----|---|---|----|-------|-----|-----|------|--------|-------|-------|-------|-------|
| 169 | 3 | 2 | 35 | 92.6 | ON | 389 | 22.2 | -2.3 | 12.60 | 12.46 | 11.86 | 11.26 |
| | | | | | OFF | 392 | 27.6 | -2.5 | 12.62 | 12.59 | 11.99 | 11.39 |
| 178 | 6 | 3 | 34 | 89.9 | ON | 387 | 28.8 | -2.3 | 12.60 | 12.39 | 11.79 | 11.19 |
| | | | | | OFF | 391 | 25.4 | -2.4 | 12.61 | 12.55 | 11.95 | 11.35 |
| 181 | 7 | 3 | 32 | 84.6 | ON | 387 | 85.2 | -156.8 | 12.26 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 297 | 79.4 | -169.4 | 12.22 | 12.75 | 12.15 | 11.55 |
| 182 | 1 | 4 | 26 | 68.8 | ON | 347 | 75.1 | -7.5 | 12.44 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 358 | 79.5 | -18.6 | 12.48 | 12.75 | 12.15 | 11.55 |
| 182 | 1 | 6 | 25 | 66.1 | ON | 327 | 83.9 | -18.3 | 12.36 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 318 | 87.6 | -54.2 | 12.31 | 12.75 | 12.15 | 11.55 |
| 182 | 1 | 8 | 23 | 68.8 | ON | 389 | 86.3 | -148.6 | 12.27 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 381 | 82.2 | -165.7 | 12.24 | 12.75 | 12.15 | 11.55 |
| 184 | 6 | 2 | 58 | 132.2 | ON | 393 | 26.8 | -2.8 | 12.62 | 12.57 | 11.97 | 11.37 |
| | | | | | OFF | 395 | 34.6 | -2.2 | 12.63 | 12.68 | 12.88 | 11.48 |
| 185 | 8 | 5 | 74 | 195.7 | ON | 394 | 39.6 | -2.4 | 12.62 | 12.71 | 12.11 | 11.51 |
| | | | | | OFF | 386 | 51.8 | -2.9 | 12.59 | 12.75 | 12.15 | 11.55 |
| 186 | 6 | 4 | 31 | 82.8 | ON | 392 | 23.5 | -1.9 | 12.62 | 12.58 | 11.98 | 11.38 |
| | | | | | OFF | 394 | 28.3 | -2.8 | 12.62 | 12.68 | 12.88 | 11.48 |
| 187 | 2 | 2 | 16 | 42.3 | ON | 365 | 65.1 | -4.2 | 12.51 | 12.75 | 12.15 | 11.55 |
| | | | | | OFF | 368 | 67.7 | -4.7 | 12.49 | 12.75 | 12.15 | 11.55 |
| 188 | 2 | 2 | 46 | 121.7 | ON | 398 | 45.8 | -2.5 | 12.61 | 12.74 | 12.14 | 11.54 |
| | | | | | OFF | 384 | 52.1 | -2.8 | 12.59 | 12.75 | 12.15 | 11.55 |
| 194 | 9 | 1 | 13 | 34.4 | ON | 395 | 31.3 | -1.8 | 12.63 | 12.64 | 12.84 | 11.44 |
| | | | | | OFF | 395 | 33.3 | -1.9 | 12.63 | 12.66 | 12.86 | 11.46 |

STELLAR-INDEX SUMMARY

CAMERA DATA ET FILM FILTER GRID ASSEMBLY NO D186

STELLAR INDEX 2.8 3481 NONE 136
1/500 3488 W/21 134

PERFORMANCE SUMMARY

| OPN NO | FR | STEL FEET | INDX FEET | H | M | S | Q | LAT | LONG | Q | LAT | LONG | SEC DUR | | |
|--------|----|-----------|-----------|------|------|----|----|-----|------|----|------|------|---------|------|-----|
| 64 | 5 | 8 | 2 | 8.28 | 8.48 | 19 | 18 | 11 | 2 | 32 | 189W | 2 | 38 | 189W | 48 |
| 68 | 7 | 3 | 4 | 8.48 | 8.79 | 1 | 25 | 26 | 3 | 9 | 151E | 3 | 12 | 158E | 61 |
| 68 | 7 | 4 | 7 | 8.69 | 1.39 | 1 | 28 | 17 | 3 | 28 | 148E | 3 | 27 | 146E | 112 |
| 69 | 1 | 3 | 8 | 8.79 | 1.58 | 2 | 52 | 9 | 2 | 1 | 131E | 3 | 6 | 129E | 126 |
| 71 | 6 | 3 | 6 | 8.59 | 1.19 | 5 | 43 | 8 | 2 | 31 | 94E | 2 | 26 | 93E | 98 |
| 72 | 1 | 8 | 2 | 8.28 | 8.48 | 6 | 45 | 37 | 1 | 38 | 115W | 1 | 41 | 116W | 59 |
| 72 | 1 | 2 | 3 | 8.38 | 8.59 | 7 | 7 | 29 | 2 | 58 | 79E | 2 | 48 | 78E | 54 |
| 72 | 1 | 4 | 9 | 8.89 | 1.78 | 7 | 9 | 14 | 2 | 43 | 76E | 2 | 35 | 73E | 143 |
| 73 | 6 | 2 | 12 | 1.19 | 2.38 | 8 | 36 | 34 | 2 | 51 | 57E | 2 | 39 | 52E | 193 |
| 74 | 4 | 1 | 6 | 8.59 | 1.19 | 18 | 3 | 46 | 2 | 59 | 48E | 2 | 53 | 36E | 181 |
| 74 | 4 | 2 | 7 | 8.69 | 1.39 | 18 | 13 | 29 | 2 | 28 | 24E | 2 | 14 | 23E | 184 |
| 75 | 4 | 1 | 6 | 8.59 | 1.19 | 11 | 44 | 9 | 2 | 14 | 8E | 2 | 9 | 8W | 96 |
| 77 | 9 | 1 | 4 | 8.48 | 8.79 | 14 | 46 | 8 | 2 | 1 | 46W | 3 | 2 | 47W | 62 |
| 79 | 5 | 8 | 3 | 8.38 | 8.59 | 17 | 34 | 21 | 2 | 41 | 88W | 2 | 39 | 81W | 58 |
| 88 | 5 | 8 | 2 | 8.28 | 8.48 | 19 | 5 | 41 | 2 | 33 | 185W | 2 | 31 | 185W | 33 |
| 81 | 5 | 8 | 3 | 8.38 | 8.59 | 28 | 34 | 8 | 2 | 36 | 126W | 2 | 33 | 127W | 52 |
| 84 | 7 | 5 | 7 | 8.69 | 1.39 | 1 | 18 | 6 | 3 | 38 | 149E | 3 | 37 | 146E | 116 |
| 85 | 2 | 6 | 3 | 8.38 | 8.59 | 2 | 45 | 42 | 3 | 23 | 128E | 3 | 26 | 127E | 53 |

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| | | | | | | | | | | | | | | | |
|-----|---|---|----|------|------|----|----|----|---|----|------|---|----|------|-----|
| 81 | 2 | 7 | 3 | 8.38 | 8.59 | 2 | 47 | 8 | 3 | 29 | 127E | 3 | 32 | 126E | 58 |
| 86 | 3 | 2 | 9 | 8.89 | 1.78 | 3 | 57 | 27 | 2 | 46 | 126E | 2 | 37 | 122E | 143 |
| 87 | 3 | 2 | 4 | 8.48 | 8.79 | 5 | 27 | 38 | 2 | 43 | 182E | 2 | 39 | 188E | 71 |
| 88 | 8 | 2 | 17 | 1.68 | 3.37 | 6 | 56 | 33 | 2 | 44 | 88E | 2 | 28 | 75E | 261 |
| 89 | 5 | 4 | 15 | 1.48 | 2.97 | 8 | 21 | 14 | 2 | 63 | 69E | 2 | 48 | 68E | 248 |
| 89 | 5 | 8 | 7 | 8.69 | 1.39 | 8 | 26 | 35 | 2 | 42 | 57E | 2 | 35 | 55E | 187 |
| 98 | 2 | 4 | 3 | 8.38 | 8.59 | 18 | 12 | 17 | 3 | 23 | 17E | 3 | 26 | 16E | 63 |
| 94 | 2 | 1 | 13 | 1.29 | 2.57 | 16 | 1 | 34 | 2 | 9 | 63W | 3 | 3 | 66W | 283 |
| 95 | 8 | 2 | 5 | 8.49 | 8.99 | 17 | 23 | 22 | 2 | 39 | 77W | 2 | 34 | 79W | 85 |
| 95 | 8 | 6 | 3 | 8.38 | 8.59 | 17 | 29 | 52 | 2 | 13 | 85W | 2 | 18 | 85W | 51 |
| 100 | 2 | 1 | 4 | 8.48 | 8.79 | 1 | 1 | 28 | 3 | 6 | 158E | 3 | 9 | 157E | 61 |
| 100 | 2 | 3 | 6 | 8.59 | 1.19 | 1 | 5 | 41 | 3 | 23 | 154E | 3 | 38 | 152E | 119 |
| 101 | 4 | 3 | 3 | 8.38 | 8.59 | 2 | 29 | 52 | 3 | 2 | 137E | 3 | 5 | 136E | 49 |
| 101 | 4 | 9 | 3 | 8.38 | 8.59 | 2 | 36 | 38 | 3 | 29 | 138E | 3 | 33 | 129E | 63 |
| 102 | 3 | 3 | 7 | 8.69 | 1.39 | 3 | 47 | 45 | 2 | 43 | 127E | 2 | 36 | 125E | 115 |
| 103 | 3 | 2 | 7 | 8.69 | 1.39 | 5 | 17 | 45 | 2 | 48 | 184E | 2 | 33 | 182E | 113 |
| 104 | 3 | 5 | 14 | 1.39 | 2.77 | 6 | 46 | 28 | 2 | 43 | 83E | 2 | 38 | 78E | 214 |
| 105 | 2 | 2 | 3 | 8.38 | 8.59 | 8 | 14 | 41 | 2 | 47 | 62E | 2 | 44 | 61E | 58 |
| 106 | 4 | 4 | 4 | 8.48 | 8.79 | 9 | 49 | 58 | 2 | 23 | 32E | 2 | 19 | 31E | 66 |
| 107 | 7 | 3 | 3 | 8.38 | 8.59 | 11 | 18 | 4 | 2 | 28 | 11E | 2 | 25 | 18E | 52 |
| 111 | 1 | 1 | 4 | 8.48 | 8.79 | 17 | 11 | 31 | 2 | 43 | 72W | 2 | 39 | 74W | 68 |
| 113 | 2 | 8 | 3 | 8.38 | 8.59 | 28 | 12 | 9 | 2 | 35 | 128W | 2 | 32 | 121W | 52 |
| 117 | 2 | 4 | 7 | 8.69 | 1.39 | 2 | 21 | 58 | 3 | 16 | 137E | 3 | 23 | 135E | 138 |
| 117 | 2 | 7 | 4 | 8.48 | 8.79 | 2 | 24 | 55 | 3 | 27 | 134E | 3 | 31 | 132E | 78 |
| 118 | 4 | 6 | 3 | 8.38 | 8.59 | 3 | 49 | 14 | 3 | 7 | 117E | 3 | 18 | 116E | 56 |
| 121 | 3 | 4 | 6 | 8.59 | 1.19 | 8 | 2 | 55 | 2 | 48 | 66E | 2 | 43 | 64E | 94 |
| 126 | 8 | 5 | 7 | 8.69 | 1.39 | 15 | 58 | 48 | 3 | 37 | 69W | 3 | 46 | 73W | 143 |
| 127 | 2 | 1 | 3 | 8.38 | 8.59 | 17 | 8 | 13 | 2 | 9 | 79W | 2 | 7 | 79W | 47 |
| 128 | 9 | 3 | 3 | 8.38 | 8.59 | 18 | 31 | 38 | 2 | 33 | 95W | 2 | 38 | 95W | 55 |
| 133 | 3 | 1 | 3 | 8.38 | 8.59 | 1 | 52 | 12 | 2 | 55 | 163E | 2 | 52 | 161E | 56 |
| 134 | 5 | 6 | 5 | 8.49 | 8.99 | 3 | 22 | 4 | 2 | 52 | 139E | 2 | 48 | 137E | 74 |
| 135 | 7 | 1 | 4 | 8.48 | 8.79 | 4 | 51 | 38 | 2 | 51 | 116E | 2 | 48 | 114E | 62 |
| 135 | 7 | 3 | 8 | 8.79 | 1.58 | 4 | 58 | 43 | 2 | 23 | 185E | 2 | 15 | 184E | 123 |
| 136 | 7 | 1 | 3 | 8.38 | 8.59 | 6 | 23 | 18 | 2 | 41 | 89E | 2 | 38 | 88E | 53 |
| 137 | 8 | 1 | 13 | 1.29 | 2.57 | 7 | 49 | 24 | 2 | 53 | 73E | 2 | 41 | 67E | 287 |
| 137 | 8 | 8 | 4 | 8.48 | 8.79 | 7 | 55 | 49 | 2 | 28 | 62E | 2 | 25 | 62E | 59 |
| 138 | 8 | 6 | 12 | 1.19 | 2.38 | 9 | 31 | 32 | 2 | 2 | 33E | 3 | 18 | 38E | 282 |
| 140 | 7 | 1 | 7 | 8.69 | 1.39 | 12 | 23 | 19 | 2 | 28 | 3W | 2 | 22 | 5W | 188 |
| 145 | 4 | 2 | 4 | 8.48 | 8.79 | 19 | 47 | 38 | 2 | 35 | 112W | 2 | 32 | 113W | 57 |
| 149 | 7 | 6 | 8 | 8.79 | 1.58 | 1 | 59 | 58 | 3 | 26 | 141E | 3 | 37 | 138E | 166 |
| 150 | 2 | 4 | 7 | 8.69 | 1.39 | 3 | 27 | 49 | 3 | 22 | 128E | 3 | 38 | 118E | 143 |
| 151 | 6 | 3 | 9 | 8.89 | 1.78 | 4 | 41 | 31 | 2 | 48 | 115E | 2 | 31 | 112E | 139 |
| 152 | 6 | 2 | 12 | 1.19 | 2.38 | 6 | 9 | 15 | 2 | 45 | 95E | 2 | 34 | 98E | 185 |
| 153 | 8 | 2 | 12 | 1.19 | 2.38 | 7 | 37 | 4 | 2 | 51 | 75E | 2 | 39 | 78E | 191 |
| 154 | 8 | 6 | 18 | 8.99 | 1.98 | 9 | 19 | 58 | 3 | 3 | 36E | 3 | 14 | 33E | 173 |
| 161 | 6 | 8 | 2 | 8.28 | 8.48 | 19 | 34 | 53 | 2 | 32 | 118W | 2 | 38 | 118W | 42 |
| 165 | 2 | 3 | 4 | 8.48 | 8.79 | 1 | 43 | 39 | 3 | 17 | 148E | 3 | 21 | 147E | 81 |
| 165 | 2 | 5 | 4 | 8.48 | 8.79 | 1 | 45 | 55 | 3 | 26 | 145E | 3 | 38 | 144E | 88 |
| 165 | 2 | 7 | 4 | 8.48 | 8.79 | 1 | 48 | 9 | 3 | 35 | 143E | 3 | 39 | 141E | 81 |
| 166 | 2 | 4 | 8 | 8.79 | 1.58 | 3 | 13 | 35 | 3 | 28 | 125E | 3 | 38 | 122E | 168 |
| 167 | 6 | 3 | 8 | 8.79 | 1.58 | 4 | 27 | 35 | 2 | 48 | 119E | 2 | 32 | 116E | 129 |

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|-----|---|---|----|------|------|----|----|----|---|----|------|---|----|------|-----|
| 168 | 6 | 2 | 9 | 0.89 | 1.78 | 5 | 55 | 47 | 2 | 43 | 98E | 2 | 35 | 95E | 143 |
| 169 | 3 | 2 | 6 | 0.59 | 1.19 | 7 | 23 | 58 | 2 | 47 | 77E | 2 | 42 | 75E | 93 |
| 170 | 6 | 3 | 6 | 0.59 | 1.19 | 8 | 52 | 33 | 2 | 49 | 56E | 2 | 44 | 54E | 91 |
| 181 | 7 | 3 | 5 | 0.49 | 0.99 | 1 | 38 | 35 | 3 | 23 | 158E | 3 | 29 | 149E | 103 |
| 182 | 1 | 4 | 4 | 0.48 | 0.79 | 2 | 54 | 55 | 3 | 4 | 133E | 3 | 9 | 132E | 79 |
| 182 | 1 | 6 | 4 | 0.48 | 0.79 | 2 | 57 | 7 | 3 | 13 | 131E | 3 | 18 | 130E | 79 |
| 182 | 1 | 8 | 4 | 0.48 | 0.79 | 2 | 59 | 28 | 3 | 22 | 128E | 3 | 26 | 127E | 78 |
| 184 | 6 | 2 | 8 | 0.79 | 1.58 | 5 | 41 | 11 | 2 | 42 | 102E | 2 | 35 | 99E | 128 |
| 185 | 8 | 5 | 11 | 1.09 | 2.18 | 7 | 13 | 20 | 2 | 38 | 75E | 2 | 19 | 72E | 100 |
| 186 | 6 | 4 | 5 | 0.49 | 0.99 | 8 | 38 | 27 | 2 | 45 | 59E | 2 | 41 | 57E | 84 |
| 187 | 2 | 2 | 3 | 0.38 | 0.59 | 18 | 17 | 48 | 2 | 4 | 24E | 2 | 2 | 23E | 51 |
| 188 | 2 | 2 | 7 | 0.69 | 1.39 | 11 | 41 | 47 | 2 | 24 | 7E | 2 | 17 | 5E | 116 |
| 194 | 9 | 1 | 2 | 0.28 | 0.48 | 28 | 32 | 34 | 2 | 38 | 121W | 2 | 36 | 122W | 42 |

NOTE - T/M DATA INDICATE NORMAL SYSTEM PERFORMANCE

NOTE - THE ORBIT WAS ADJUSTED ON REV 86

NOTE - T/M DATA INDICATE THAT BOTH THE MASTER AND SLAVE PAN CAMERAS WERE DEPLETED OF ALL FILM PRIOR TO OPERATION 194-9-1

NOTE - ONLY THE LAST FIVE FRAMES OF OPERATION 64-5-8 ARE IN THE B MISSION RECOVERY BUCKET

NOTE - OPERATION 66-8-8 WAS THE CUT AND WRAP OPERATION OCCURRING AT THE TIME OF A MISSION RECOVERY

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C. PERFORMANCE ESTIMATE - PART TWO

RATE ESTIMATE
 FWD PAN CAMERA NUMBER 198

| OPN NO | FR | R | A | TUR/ BUR | INST CPS | INST ANG-VEL | SCAN RATE R/SEC | RATE I/SEC | PCT CALIB | RATE REQD | | |
|--------|----|---|----|-------------|-------------|-----------------|-----------------------|---------------|--------------|--------------|-------|-------|
| 64 | 8 | 8 | 11 | 3 | 4 ON | 1687 | 8.4485 | 8.83784 | 2.818 | 67.63 | -11.5 | -8.6 |
| | | | | | OFF | 27 | 8.4583 | 8.83888 | 2.829 | 67.91 | -11.5 | -8.7 |
| 66 | 8 | 8 | 3 | 3 | 4 ON | 8 | 8.2536 | 8.82148 | 1.593 | 38.24 | -11.5 | -71.7 |
| | | | | | OFF | 23 | 8.2536 | 8.82148 | 1.593 | 38.24 | -11.5 | -73.1 |
| 68 | 7 | 3 | 22 | 3 | 4 ON | 2318 | 8.4383 | 8.83638 | 2.783 | 64.88 | -11.5 | -18.5 |
| | | | | | OFF | 48 | 8.4239 | 8.83577 | 2.664 | 63.93 | -11.5 | -18.4 |
| 68 | 7 | 4 | 43 | 3 | 4 ON | 2488 | 8.4839 | 8.83488 | 2.538 | 68.98 | -11.5 | -18.9 |
| | | | | | OFF | 99 | 8.3866 | 8.83262 | 2.429 | 58.29 | -11.5 | -11.2 |
| 69 | 1 | 3 | 58 | 3 | 4 ON | 2168 | 8.4478 | 8.83772 | 2.888 | 67.48 | -11.5 | -18.2 |
| | | | | | OFF | 113 | 8.4353 | 8.83673 | 2.735 | 65.65 | -11.5 | -18.3 |
| 71 | 6 | 3 | 34 | 3 | 4 ON | 1788 | 8.4581 | 8.83798 | 2.828 | 67.88 | -11.5 | -8.8 |
| | | | | | OFF | 77 | 8.4548 | 8.83837 | 2.857 | 68.58 | -11.5 | -9.1 |
| 72 | 1 | 8 | 13 | 3 | 4 ON | 114 | 8.2558 | 8.82151 | 1.682 | 38.45 | -11.5 | -17.5 |
| | | | | | OFF | 46 | 8.2562 | 8.82162 | 1.618 | 38.63 | -11.5 | -18.1 |
| 72 | 1 | 2 | 17 | 3 | 4 ON | 1426 | 8.4165 | 8.83514 | 2.617 | 62.88 | -11.5 | -8.9 |
| | | | | | OFF | 41 | 8.4222 | 8.83563 | 2.653 | 63.67 | -11.5 | -8.9 |
| 72 | 1 | 4 | 58 | 3 | 4 ON | 1531 | 8.4317 | 8.83642 | 2.712 | 65.89 | -11.5 | -8.6 |
| | | | | | OFF | 138 | 8.4459 | 8.83763 | 2.882 | 67.25 | -11.5 | -8.7 |
| 73 | 6 | 2 | 88 | 3 | 4 ON | 1418 | 8.4152 | 8.83584 | 2.689 | 62.61 | -11.5 | -9.1 |
| | | | | | OFF | 188 | 8.4395 | 8.83789 | 2.762 | 66.28 | -11.5 | -8.7 |
| 74 | 4 | 1 | 36 | 3 | 4 ON | 1388 | 8.3952 | 8.83334 | 2.483 | 59.59 | -11.5 | -18.8 |
| | | | | | OFF | 88 | 8.4898 | 8.83458 | 2.575 | 61.88 | -11.5 | -9.4 |
| 74 | 4 | 2 | 42 | 3 | 4 ON | 1884 | 8.4579 | 8.83863 | 2.877 | 69.84 | -11.5 | -9.5 |
| | | | | | OFF | 91 | 8.4575 | 8.83868 | 2.874 | 68.98 | -11.5 | -9.8 |
| 75 | 4 | 1 | 38 | 3 | 4 ON | 1973 | 8.4574 | 8.83868 | 2.874 | 68.98 | -11.5 | -9.8 |
| | | | | | OFF | 83 | 8.4545 | 8.83835 | 2.856 | 68.54 | -11.5 | -18.1 |
| 77 | 9 | 1 | 22 | 3 | 4 ON | 2182 | 8.4458 | 8.83755 | 2.796 | 67.11 | -11.5 | -18.5 |
| | | | | | OFF | 49 | 8.4483 | 8.83715 | 2.766 | 66.39 | -11.5 | -18.6 |
| 79 | 5 | 8 | 16 | 3 | 4 ON | 1583 | 8.4381 | 8.83696 | 2.752 | 66.86 | -11.5 | -8.9 |
| | | | | | OFF | 37 | 8.4418 | 8.83728 | 2.776 | 66.63 | -11.5 | -9.8 |
| 88 | 5 | 8 | 8 | 3 | 4 ON | 1713 | 8.4585 | 8.83881 | 2.838 | 67.93 | -11.5 | -9.1 |
| | | | | | OFF | 28 | 8.4516 | 8.83811 | 2.838 | 68.11 | -11.5 | -9.2 |
| 81 | 5 | 8 | 17 | 3 | 4 ON | 1678 | 8.4838 | 8.84882 | 3.848 | 72.96 | -4.2 | -8.8 |
| | | | | | OFF | 39 | 8.4878 | 8.84189 | 3.868 | 73.44 | -4.2 | -8.9 |
| 84 | 7 | 5 | 41 | 3 | 4 ON | 2663 | 8.4885 | 8.83388 | 2.517 | 68.48 | -4.2 | -4.3 |
| | | | | | OFF | 183 | 8.3889 | 8.83214 | 2.393 | 57.44 | -4.2 | -4.7 |
| 85 | 2 | 6 | 16 | 3 | 4 ON | 2571 | 8.4195 | 8.83548 | 2.636 | 63.26 | -4.2 | -3.8 |
| | | | | | OFF | 48 | 8.4128 | 8.83477 | 2.589 | 62.13 | -4.2 | -3.9 |
| 85 | 2 | 7 | 18 | 3 | 4 ON | 2648 | 8.4836 | 8.83486 | 2.536 | 68.86 | -4.2 | -4.3 |
| | | | | | OFF | 45 | 8.3949 | 8.83332 | 2.481 | 59.55 | -4.2 | -4.5 |
| 86 | 3 | 2 | 57 | 4 | 5 ON | 1618 | 8.4487 | 8.83786 | 2.819 | 67.66 | -4.2 | -5.2 |
| | | | | | OFF | 138 | 8.4589 | 8.83872 | 2.884 | 69.21 | -4.2 | -6.3 |

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| | | | | | | | | | | | | | |
|-----|---|---|-----|---|---|-----|------|--------|---------|-------|-------|------|------|
| | | | | | 5 | ON | 1662 | 8.4535 | 8.83827 | 2.849 | 68.39 | -4.2 | -1.8 |
| | | | | | | OFF | 58 | 8.4577 | 8.83862 | 2.876 | 69.82 | -4.2 | -1.1 |
| 88 | 8 | 2 | 111 | 4 | 5 | ON | 1635 | 8.4511 | 8.83886 | 2.834 | 68.82 | -4.2 | -8.8 |
| | | | | | | OFF | 248 | 8.4642 | 8.83917 | 2.917 | 78.88 | -4.2 | -1.1 |
| 89 | 5 | 4 | 98 | 4 | 5 | ON | 1358 | 8.4153 | 8.83585 | 2.618 | 62.63 | -4.2 | -2.2 |
| | | | | | | OFF | 227 | 8.4458 | 8.83761 | 2.881 | 67.22 | -4.2 | -8.9 |
| 89 | 5 | 8 | 42 | 4 | 5 | ON | 1678 | 8.4548 | 8.83838 | 2.858 | 68.59 | -4.2 | -8.7 |
| | | | | | | OFF | 94 | 8.4687 | 8.83887 | 2.895 | 69.47 | -4.2 | -8.8 |
| 98 | 2 | 4 | 19 | 4 | 5 | ON | 2661 | 8.3829 | 8.83231 | 2.486 | 57.74 | -4.2 | -3.4 |
| | | | | | | OFF | 58 | 8.3744 | 8.83189 | 2.352 | 56.45 | -4.2 | -3.6 |
| 94 | 2 | 1 | 84 | 4 | 5 | ON | 2185 | 8.4466 | 8.83768 | 2.886 | 67.35 | -5.4 | -2.9 |
| | | | | | | OFF | 198 | 8.4253 | 8.83588 | 2.672 | 64.13 | -5.4 | -3.3 |
| 95 | 8 | 2 | 31 | 4 | 5 | ON | 1734 | 8.4532 | 8.83824 | 2.848 | 68.35 | -5.4 | -1.7 |
| | | | | | | OFF | 72 | 8.4567 | 8.83853 | 2.869 | 68.86 | -5.4 | -1.8 |
| 95 | 8 | 6 | 16 | 4 | 5 | ON | 2124 | 8.4514 | 8.83889 | 2.836 | 68.87 | -5.4 | -2.6 |
| | | | | | | OFF | 38 | 8.4487 | 8.83786 | 2.828 | 67.67 | -5.4 | -2.7 |
| 188 | 2 | 1 | 28 | 4 | 5 | ON | 2433 | 8.4163 | 8.83513 | 2.616 | 62.78 | -5.4 | -3.7 |
| | | | | | | OFF | 48 | 8.4894 | 8.83485 | 2.872 | 61.74 | -5.4 | -3.8 |
| 188 | 2 | 3 | 48 | 4 | 5 | ON | 2686 | 8.3739 | 8.83155 | 2.349 | 56.38 | -5.4 | -5.1 |
| | | | | | | OFF | 186 | 8.3577 | 8.83819 | 2.248 | 53.95 | -5.4 | -5.8 |
| 181 | 4 | 3 | 15 | 4 | 5 | ON | 2388 | 8.4241 | 8.83578 | 2.665 | 63.95 | -5.4 | -3.5 |
| | | | | | | OFF | 36 | 8.4195 | 8.83539 | 2.635 | 63.25 | -5.4 | -3.5 |
| 181 | 4 | 9 | 18 | 4 | 5 | ON | 2782 | 8.3587 | 8.83827 | 2.254 | 54.89 | -5.4 | -5.2 |
| | | | | | | OFF | 58 | 8.3525 | 8.82974 | 2.215 | 53.15 | -5.4 | -4.8 |
| 182 | 3 | 3 | 45 | 4 | 5 | ON | 1696 | 8.4587 | 8.83883 | 2.832 | 67.97 | -5.4 | -1.7 |
| | | | | | | OFF | 182 | 8.4564 | 8.83851 | 2.867 | 68.82 | -5.4 | -1.8 |
| 183 | 3 | 2 | 44 | 4 | 5 | ON | 1739 | 8.4536 | 8.83827 | 2.858 | 68.48 | -5.4 | -1.7 |
| | | | | | | OFF | 188 | 8.4578 | 8.83863 | 2.876 | 69.83 | -5.4 | -1.8 |
| 184 | 3 | 5 | 89 | 4 | 5 | ON | 1697 | 8.4588 | 8.83884 | 2.833 | 67.98 | -5.4 | -1.8 |
| | | | | | | OFF | 281 | 8.4588 | 8.83871 | 2.883 | 69.18 | -5.4 | -2.8 |
| 185 | 2 | 2 | 19 | 4 | 5 | ON | 1641 | 8.4463 | 8.83765 | 2.884 | 67.29 | -5.4 | -1.9 |
| | | | | | | OFF | 45 | 8.4497 | 8.83795 | 2.826 | 67.82 | -5.4 | -1.8 |
| 186 | 4 | 4 | 23 | 4 | 5 | ON | 2881 | 8.4576 | 8.83861 | 2.875 | 69.88 | -5.4 | -2.3 |
| | | | | | | OFF | 53 | 8.4557 | 8.83845 | 2.863 | 68.71 | -5.4 | -2.4 |
| 187 | 7 | 3 | 17 | 4 | 5 | ON | 1932 | 8.4588 | 8.83871 | 2.883 | 69.18 | -5.4 | -2.1 |
| | | | | | | OFF | 39 | 8.4584 | 8.83868 | 2.888 | 69.12 | -5.4 | -2.2 |
| 111 | 1 | 1 | 24 | 4 | 5 | ON | 1716 | 8.4521 | 8.83815 | 2.841 | 68.18 | -5.4 | -1.9 |
| | | | | | | OFF | 55 | 8.4552 | 8.83841 | 2.868 | 68.64 | -5.4 | -1.9 |
| 113 | 2 | 8 | 17 | 4 | 5 | ON | 1844 | 8.4588 | 8.83864 | 2.878 | 69.86 | -5.4 | -2.8 |
| | | | | | | OFF | 39 | 8.4586 | 8.83878 | 2.882 | 69.16 | -5.4 | -2.1 |
| 117 | 2 | 4 | 46 | 4 | 5 | ON | 2615 | 8.3865 | 8.83261 | 2.429 | 58.29 | -5.4 | -5.4 |
| | | | | | | OFF | 117 | 8.3663 | 8.83891 | 2.382 | 55.24 | -5.4 | -6.1 |
| 117 | 2 | 7 | 21 | 4 | 5 | ON | 2791 | 8.3575 | 8.83817 | 2.246 | 53.91 | -5.4 | -6.8 |
| | | | | | | OFF | 57 | 8.3583 | 8.82956 | 2.281 | 52.82 | -5.4 | -5.6 |
| 118 | 4 | 6 | 17 | 4 | 5 | ON | 2497 | 8.4844 | 8.83412 | 2.541 | 68.97 | -5.8 | -5.2 |
| | | | | | | OFF | 43 | 8.3978 | 8.83356 | 2.499 | 59.99 | -5.8 | -5.4 |
| 121 | 3 | 4 | 35 | 4 | 5 | ON | 1655 | 8.4452 | 8.83756 | 2.797 | 67.13 | -5.8 | -2.6 |
| | | | | | | OFF | 81 | 8.4589 | 8.83885 | 2.833 | 67.99 | -5.8 | -2.6 |
| 126 | 8 | 5 | 43 | 4 | 5 | ON | 2965 | 8.3338 | 8.82889 | 2.892 | 58.21 | -5.8 | -6.2 |
| | | | | | | OFF | 138 | 8.3175 | 8.82679 | 1.995 | 47.87 | -5.8 | -5.5 |
| 127 | 2 | 1 | 15 | 4 | 5 | ON | 2258 | 8.4371 | 8.83688 | 2.746 | 65.91 | -5.8 | -4.2 |

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|-----|---|---|----|---|---|-----|------|--------|---------|-------|-------|------|------|
| 128 | 9 | 3 | 18 | 4 | 5 | OFF | 34 | 0.4336 | 0.83658 | 2.724 | 65.38 | -5.8 | -4.2 |
| | | | | | | ON | 1982 | 0.4565 | 0.83852 | 2.868 | 68.83 | -5.8 | -2.8 |
| 133 | 3 | 1 | 18 | 4 | 5 | OFF | 42 | 0.4564 | 0.83851 | 2.868 | 68.82 | -5.8 | -2.9 |
| | | | | | | ON | 1587 | 0.4387 | 0.83782 | 2.757 | 66.16 | -5.8 | -3.2 |
| 134 | 5 | 6 | 26 | 4 | 5 | OFF | 43 | 0.4426 | 0.83735 | 2.781 | 66.75 | -5.8 | -3.8 |
| | | | | | | ON | 1629 | 0.4429 | 0.83737 | 2.783 | 66.79 | -5.8 | -3.8 |
| 135 | 7 | 1 | 21 | 4 | 5 | OFF | 61 | 0.4478 | 0.83778 | 2.813 | 67.52 | -5.8 | -2.8 |
| | | | | | | ON | 1643 | 0.4442 | 0.83748 | 2.791 | 66.98 | -5.8 | -2.9 |
| 135 | 7 | 3 | 49 | 4 | 5 | OFF | 49 | 0.4479 | 0.83779 | 2.814 | 67.54 | -5.8 | -2.8 |
| | | | | | | ON | 2876 | 0.4521 | 0.83815 | 2.848 | 68.17 | -5.8 | -3.4 |
| 136 | 7 | 1 | 17 | 4 | 5 | OFF | 118 | 0.4444 | 0.83758 | 2.792 | 67.82 | -5.8 | -3.8 |
| | | | | | | ON | 1881 | 0.4543 | 0.83833 | 2.854 | 68.51 | -5.8 | -2.7 |
| 137 | 8 | 1 | 86 | 4 | 5 | OFF | 48 | 0.4555 | 0.83843 | 2.862 | 68.68 | -5.8 | -2.7 |
| | | | | | | ON | 1617 | 0.4417 | 0.83727 | 2.775 | 66.61 | -5.8 | -3.1 |
| 137 | 8 | 8 | 28 | 4 | 5 | OFF | 194 | 0.4546 | 0.83835 | 2.856 | 68.54 | -5.8 | -2.7 |
| | | | | | | ON | 2882 | 0.4552 | 0.83841 | 2.868 | 68.64 | -5.8 | -3.1 |
| 138 | 8 | 6 | 88 | 4 | 5 | OFF | 46 | 0.4536 | 0.83828 | 2.858 | 68.48 | -5.8 | -3.3 |
| | | | | | | ON | 2394 | 0.4199 | 0.83543 | 2.638 | 63.32 | -5.8 | -5.1 |
| 148 | 7 | 1 | 42 | 4 | 5 | OFF | 189 | 0.3986 | 0.83296 | 2.454 | 58.91 | -5.8 | -6.4 |
| | | | | | | ON | 2884 | 0.4551 | 0.83848 | 2.868 | 68.63 | -5.8 | -3.1 |
| 145 | 4 | 2 | 19 | 4 | 5 | OFF | 95 | 0.4518 | 0.83885 | 2.834 | 68.88 | -5.8 | -3.5 |
| | | | | | | ON | 1917 | 0.4565 | 0.83852 | 2.868 | 68.84 | -5.8 | -2.8 |
| 149 | 7 | 6 | 54 | 4 | 5 | OFF | 44 | 0.4562 | 0.83849 | 2.866 | 68.79 | -5.8 | -3.8 |
| | | | | | | ON | 2854 | 0.3582 | 0.82955 | 2.281 | 52.81 | -5.8 | -7.1 |
| 158 | 2 | 4 | 47 | 4 | 5 | OFF | 153 | 0.3387 | 0.82791 | 2.878 | 49.87 | -5.8 | -6.4 |
| | | | | | | ON | 2786 | 0.3594 | 0.83833 | 2.258 | 54.28 | -5.8 | -7.4 |
| 151 | 6 | 3 | 56 | 4 | 5 | OFF | 138 | 0.3425 | 0.82898 | 2.152 | 51.65 | -5.8 | -6.9 |
| | | | | | | ON | 1861 | 0.4899 | 0.83888 | 2.889 | 69.34 | -5.8 | -1.9 |
| 152 | 6 | 2 | 76 | 4 | 5 | OFF | 126 | 0.4595 | 0.83877 | 2.887 | 69.38 | -5.8 | -2.2 |
| | | | | | | ON | 1779 | 0.4572 | 0.83858 | 2.873 | 68.94 | -5.8 | -1.9 |
| 153 | 8 | 2 | 79 | 4 | 5 | OFF | 172 | 0.4682 | 0.83883 | 2.891 | 69.39 | -5.8 | -2.1 |
| | | | | | | ON | 1781 | 0.4526 | 0.83819 | 2.844 | 68.25 | -5.8 | -2.1 |
| 154 | 8 | 6 | 65 | 4 | 5 | OFF | 178 | 0.4681 | 0.83882 | 2.891 | 69.38 | -5.8 | -2.8 |
| | | | | | | ON | 2522 | 0.4837 | 0.83486 | 2.536 | 68.87 | -5.8 | -5.8 |
| 161 | 6 | 8 | 12 | 4 | 5 | OFF | 168 | 0.3765 | 0.83177 | 2.366 | 56.77 | -5.8 | -7.2 |
| | | | | | | ON | 1919 | 0.4684 | 0.83884 | 2.893 | 69.42 | -5.8 | -2.1 |
| 165 | 2 | 3 | 26 | 4 | 5 | OFF | 29 | 0.4682 | 0.83883 | 2.892 | 69.48 | -5.8 | -2.1 |
| | | | | | | ON | 2665 | 0.3798 | 0.83198 | 2.381 | 57.15 | -5.8 | -4.3 |
| 165 | 2 | 5 | 24 | 4 | 5 | OFF | 68 | 0.3673 | 0.83899 | 2.388 | 55.39 | -5.8 | -4.8 |
| | | | | | | ON | 2888 | 0.3574 | 0.83816 | 2.246 | 53.98 | -5.8 | -4.8 |
| 165 | 2 | 7 | 23 | 4 | 5 | OFF | 67 | 0.3498 | 0.82945 | 2.193 | 52.62 | -5.8 | -4.4 |
| | | | | | | ON | 2935 | 0.3397 | 0.82866 | 2.134 | 51.22 | -5.8 | -4.4 |
| 166 | 2 | 4 | 54 | 4 | 5 | OFF | 68 | 0.3313 | 0.82796 | 2.882 | 49.97 | -5.8 | -4.1 |
| | | | | | | ON | 2718 | 0.3695 | 0.83117 | 2.321 | 55.71 | -5.8 | -4.9 |
| 167 | 6 | 3 | 51 | 4 | 5 | OFF | 147 | 0.3493 | 0.82947 | 2.195 | 52.67 | -5.8 | -4.6 |
| | | | | | | ON | 1812 | 0.4568 | 0.83848 | 2.865 | 68.77 | -5.6 | -3.8 |
| 168 | 6 | 2 | 58 | 4 | 5 | OFF | 116 | 0.4578 | 0.83863 | 2.877 | 69.84 | -5.6 | -2.6 |
| | | | | | | ON | 1761 | 0.4538 | 0.83829 | 2.851 | 68.43 | -5.6 | -3.3 |
| 169 | 3 | 2 | 35 | 4 | 5 | OFF | 138 | 0.4577 | 0.83862 | 2.876 | 69.82 | -5.6 | -2.7 |
| | | | | | | ON | 1789 | 0.4587 | 0.83883 | 2.832 | 67.96 | -5.6 | -3.7 |
| | | | | | | OFF | 88 | 0.4558 | 0.83839 | 2.859 | 68.61 | -5.6 | -3.2 |

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|-----|---|---|----|---|---|-----|------|--------|---------|-------|-------|------|------|
| 178 | 6 | 3 | 34 | 4 | 5 | ON | 1681 | 8.4486 | 8.83785 | 2.819 | 67.65 | -5.6 | -3.9 |
| | | | | | | OFF | 78 | 8.4536 | 8.83827 | 2.858 | 68.39 | -5.6 | -3.4 |
| 181 | 7 | 3 | 33 | 4 | 5 | ON | 2881 | 8.3553 | 8.82999 | 2.234 | 53.68 | -5.6 | -6.4 |
| | | | | | | OFF | 98 | 8.3448 | 8.82983 | 2.161 | 51.88 | -5.6 | -6.1 |
| 182 | 1 | 4 | 26 | 4 | 5 | ON | 2519 | 8.4819 | 8.83391 | 2.525 | 68.68 | -5.6 | -4.5 |
| | | | | | | OFF | 66 | 8.3913 | 8.83382 | 2.459 | 59.81 | -5.6 | -4.9 |
| 182 | 1 | 6 | 25 | 4 | 5 | ON | 2651 | 8.3793 | 8.83288 | 2.383 | 57.28 | -5.6 | -5.7 |
| | | | | | | OFF | 66 | 8.3681 | 8.83186 | 2.313 | 55.52 | -5.6 | -6.2 |
| 182 | 1 | 8 | 23 | 4 | 5 | ON | 2784 | 8.3577 | 8.83818 | 2.248 | 53.94 | -5.6 | -6.4 |
| | | | | | | OFF | 65 | 8.3494 | 8.82948 | 2.195 | 52.69 | -5.6 | -6.2 |
| 184 | 6 | 2 | 51 | 4 | 5 | ON | 1815 | 8.4561 | 8.83849 | 2.866 | 68.79 | -5.6 | -3.3 |
| | | | | | | OFF | 115 | 8.4578 | 8.83863 | 2.877 | 69.84 | -5.6 | -2.9 |
| 185 | 8 | 5 | 74 | 4 | 5 | ON | 2883 | 8.4565 | 8.83852 | 2.868 | 68.84 | -5.6 | -2.8 |
| | | | | | | OFF | 167 | 8.4472 | 8.83773 | 2.818 | 67.44 | -5.6 | -2.8 |
| 186 | 6 | 4 | 31 | 4 | 5 | ON | 1771 | 8.4543 | 8.83833 | 2.855 | 68.51 | -5.6 | -3.6 |
| | | | | | | OFF | 71 | 8.4569 | 8.83855 | 2.878 | 68.89 | -5.6 | -3.3 |
| 187 | 2 | 2 | 16 | 4 | 5 | ON | 2384 | 8.4226 | 8.83566 | 2.656 | 63.73 | -5.6 | -3.8 |
| | | | | | | OFF | 38 | 8.4176 | 8.83524 | 2.624 | 62.98 | -5.6 | -3.9 |
| 188 | 2 | 2 | 46 | 4 | 5 | ON | 2892 | 8.4525 | 8.83818 | 2.843 | 68.24 | -5.6 | -2.9 |
| | | | | | | OFF | 183 | 8.4449 | 8.83754 | 2.796 | 67.18 | -5.6 | -3.1 |
| 194 | 9 | 1 | 12 | 4 | 5 | ON | 1989 | 8.4579 | 8.83863 | 2.877 | 69.84 | -5.6 | -3.4 |
| | | | | | | OFF | 29 | 8.4578 | 8.83863 | 2.876 | 69.83 | -5.6 | -3.3 |

RATE ESTIMATE

AFT PAN CAMERA NUMBER 199

| OPN NO | FR | R | A | TUR/DUR | INST GPS | INST ANG-VEL | SCAN R/SEC | RATE I/SEC | PCT CALIB | RATE RECD | | |
|--------|----|---|----|---------|----------|--------------|------------|------------|-----------|-----------|-------|-------|
| 64 | 5 | 8 | 11 | 3 | 4 ON | 1699 | 8.4478 | 8.83778 | 2.814 | 67.53 | -12.2 | -9.8 |
| | | | | | OFF | 27 | 8.4496 | 8.83794 | 2.825 | 67.88 | -12.2 | -9.1 |
| 66 | 8 | 8 | 3 | 3 | 4 ON | 12 | 8.2537 | 8.82141 | 1.594 | 38.26 | -12.2 | -72.4 |
| | | | | | OFF | 23 | 8.2537 | 8.82141 | 1.594 | 38.26 | -12.2 | -73.8 |
| 68 | 7 | 3 | 22 | 3 | 4 ON | 2322 | 8.4296 | 8.83625 | 2.788 | 64.79 | -12.2 | -18.2 |
| | | | | | OFF | 48 | 8.4234 | 8.83572 | 2.668 | 63.84 | -12.2 | -18.2 |
| 68 | 7 | 4 | 43 | 3 | 4 ON | 2492 | 8.4834 | 8.83484 | 2.534 | 68.83 | -12.2 | -18.5 |
| | | | | | OFF | 99 | 8.3861 | 8.83258 | 2.426 | 58.23 | -12.2 | -18.7 |
| 69 | 1 | 3 | 58 | 3 | 4 ON | 2172 | 8.4463 | 8.83766 | 2.884 | 67.38 | -12.2 | -18.1 |
| | | | | | OFF | 113 | 8.4347 | 8.83668 | 2.731 | 65.55 | -12.2 | -18.1 |
| 71 | 6 | 3 | 34 | 3 | 4 ON | 1728 | 8.4494 | 8.83792 | 2.824 | 67.77 | -12.2 | -9.2 |
| | | | | | OFF | 77 | 8.4548 | 8.83831 | 2.853 | 68.47 | -12.2 | -9.4 |
| 72 | 1 | 8 | 13 | 3 | 4 ON | 126 | 8.2551 | 8.82152 | 1.683 | 38.47 | -12.2 | -17.8 |
| | | | | | OFF | 46 | 8.2563 | 8.82163 | 1.611 | 38.65 | -12.2 | -18.4 |
| 72 | 1 | 2 | 17 | 3 | 4 ON | 1438 | 8.4159 | 8.83589 | 2.613 | 62.72 | -12.2 | -9.5 |
| | | | | | OFF | 41 | 8.4217 | 8.83558 | 2.649 | 63.89 | -12.2 | -9.4 |
| 72 | 1 | 4 | 58 | 3 | 4 ON | 1543 | 8.4311 | 8.83637 | 2.788 | 65.88 | -12.2 | -9.1 |
| | | | | | OFF | 138 | 8.4453 | 8.83757 | 2.798 | 67.14 | -12.2 | -9.2 |
| 73 | 6 | 2 | 88 | 3 | 4 ON | 1438 | 8.4147 | 8.83499 | 2.686 | 62.53 | -12.2 | -9.6 |
| | | | | | OFF | 188 | 8.4389 | 8.83783 | 2.757 | 66.18 | -12.2 | -9.2 |
| 74 | 4 | 1 | 35 | 3 | 4 ON | 1312 | 8.3947 | 8.83338 | 2.488 | 59.52 | -12.2 | -18.6 |
| | | | | | OFF | 88 | 8.4893 | 8.83454 | 2.572 | 61.72 | -12.2 | -18.8 |
| 74 | 4 | 2 | 42 | 3 | 4 ON | 1896 | 8.4571 | 8.83857 | 2.872 | 68.94 | -12.2 | -9.7 |