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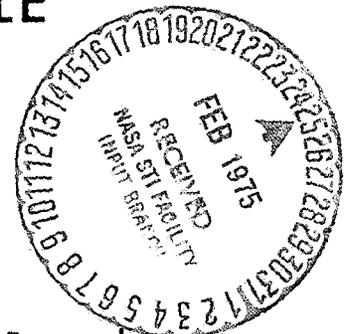


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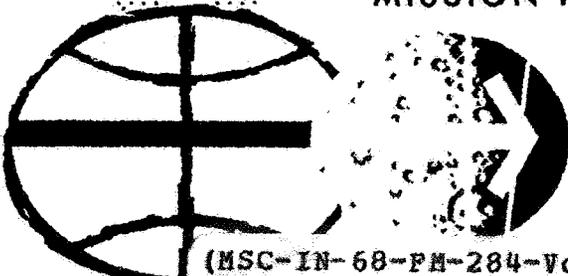
APOLLO MISSION D
(AS-504/CSM-104/LM-3)
SPACECRAFT OPERATIONAL TRAJECTORY
VOLUME I
MISSION PROFILE



Orbital Mission Analysis Branch

MISSION PLANNING AND ANALYSIS DIVISION

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS



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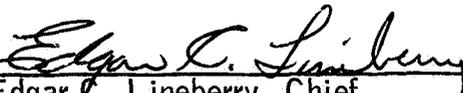
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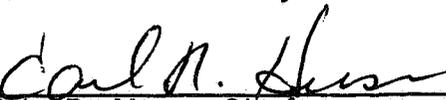
APOLLO MISSION D (AS-504/CSM-104/LM-3)
SPACECRAFT OPERATIONAL TRAJECTORY
VOLUME I - MISSION PROFILE

By Harold L. Conway, Robert S. Merriam, Harold O. Spurlin,
Orbital Mission Analysis Branch, and
William E. Lee, TRW Systems Group

December 2, 1968

MISSION PLANNING AND ANALYSIS DIVISION
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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APOLLO MISSION D (AS-504/CSM-104/LM-3)

SPACECRAFT OPERATIONAL TRAJECTORY

VOLUME I - MISSION PROFILE

By Harold L. Conway, Robert S. Merriam, Harold O. Spurlin, OMAB
and William E. Lee, TRW Systems Group

1.0 SUMMARY

The Apollo Mission D spacecraft operational trajectory completely revises all previously published spacecraft trajectory data. This volume, Volume I, describes the mission profile and ΔV maneuvers that include five docked SPS burns, one docked long-duration DPS burn, an LM-active rendezvous, an APS burn-to-depletion and three CSM solo SPS burns. A summary of the spacecraft lighting, tracking, ground tracks, trajectory input parameters, and sequence of events is also presented. Volume II presents the trajectory listing of both the CSM and LM trajectories in parts 1 and 2, respectively. Volume III contains MSFN aspect angle time histories and AOS and LOS data for the CSM and LM.

2.0 INTRODUCTION

Apollo Mission D is planned as a 10-day, earth orbital, combined CSM and LM operations mission which will demonstrate the capability of the CSM and LM to perform selected functions of the lunar landing mission. This will be the second manned Saturn V mission and the first mission in the flight test program which includes both manned CSM and LM operations. The mission also features the only EVA of the test program prior to the lunar landing mission.

2.1 Purpose

The purpose of this document is to provide the spacecraft operational trajectory and attitude environmental data for evaluating the CSM and LM systems for crew training, mission support, and consumables analysis. The trajectory profile is designed to reflect published report data that

includes the ASPO mission requirements and test objectives, the known spacecraft and launch vehicle constraints, the spacecraft mass, aerodynamic, and performance properties, ground support network and facilities, and the spacecraft guidance equations and logic. This profile is intended not only to update but also to expand and improve all prior trajectories for this mission. This document will be revised as necessary to reflect changes to the planned mission.

2.2 Scope

This report is published in three volumes. The other two volumes contain the information listed below:

Volume II, Trajectory Listing, presents the detailed trajectory listing for both the CSM and LM. In part 1, CSM Parameters (Internal Note 68-FM-285), the CSM listing begins after transposition and docking with LM ejection from the S-IVB and continues through reentry and touchdown. In part 2, LM and CSM/LM Separation Parameters (Internal Note 68-FM-286), the LM listing is presented from LM ejection through the ascent burn to depletion.

Separation parameters between the CSM and LM are presented for the rendezvous and APS long-duration burn.

Volume III, MSFN Tracking Data, (Internal Note 68-FM-287) contains time histories of MSFN acquisition and loss of the CSM signals from LM ejection to CM touchdown. AOS and LOS data for the LM is given through the APS burn to depletion. This volume also presents aspect angle time history for stations supporting the mission. These data are applicable for lift-off delays not exceeding 15 minutes.

2.3 Mission Profile Summary

Mission D is now scheduled as the second manned Saturn V flight and is designed as a CSM/LM combined operations mission which will verify the capability of the CSM and LM to perform selected functions of the lunar landing mission.

The mission duration is approximately 10 days and launch is scheduled for the first quarter of 1969. The assumed launch date for trajectory generation is February 20, 1969, at 1600 G.m.t. (1100 e.s.t.) from complex 39B. This lift-off time represents the first opportunity of the 3-hour window. The flight azimuth is 72° from true north.

The mission profile is separated into six periods of activities.

The first period extends from lift-off to 19^h00^m g.e.t. and includes the following events:

1. Launch
2. Insertion
3. T&D and LM ejection
4. Two S-IVB restarts after LM ejection
5. SPS-1 (36.8 fps - docked)

The second period begins at 19^h00^m g.e.t. and ends at 40^h00^m g.e.t. and contains the following events:

1. SPS-2 (849.4 fps - docked)
2. SPS-3 (2548.1 fps - docked)
3. SPS-4 (299.8 fps - docked)

The third period is initiated at 40^h00^m g.e.t. and ends at 66^h30^m g.e.t. and includes the following events:

1. LM systems evaluation
2. DPS-1 (1698.3 fps - docked)
3. SPS-5 (550.5 fps - docked)

The fourth period extends from 66^h30^m g.e.t. to 89^h00^m g.e.t. and includes the following events:

1. EVA preparation
2. EVA

The fifth period extends from 89^h00^m to 114^h00^m g.e.t. and includes the following events:

1. LM-active rendezvous
2. Unmanned APS long-duration burn - propellant depletion

The sixth and final period begins at 114^h00^m and terminates at 238^h35.5^m and contains the following events:

1. SPS-6 (62.7 fps - CSM solo)
2. SPS-7 (155.7 fps - CSM solo)
3. SPS-8 (313.4 fps - deorbit)

3.0 ABBREVIATIONS

ACN	Ascension tracking station
AGS	abort guidance system
ANG	Antigua tracking station
AOS	acquisition of signal
APS	ascent propulsion system
ARIA	Apollo range instrumented aircraft
ASPO	Apollo Spacecraft Program Office
BDA	Bermuda tracking station
CAL	California tracking station
CDH	constant differential height
CES	control electronics system
CM	command module
CRO	Carnarvon tracking station
CSI	concentric sequence initiation
CSM	command and service modules
DAP	digital autopilot
DPS	descent propulsion system

DPS-1	first DPS burn
EMS	entry monitoring system
EMU	extravehicular mobility unit
e.s.t.	eastern standard time
ETR	Eastern Test Range
EVA	extravehicular activity
EVT	extravehicular transfer
FTP	fixed throttle point
GBM	Grand Bahama tracking station
GDS	Goldstone tracking station
g.e.t.	ground elapsed time
G.m.t.	Greenwich mean time
G&N	guidance and navigation
GYM	Guaymas tracking station
HAW	Hawaii tracking station
IMU	inertial measurement unit
IVT	intravehicular transfer
LET	launch escape tower
LH ₂	liquid hydrogen
LM	lunar module
LOS	loss of signal
LOX	liquid oxygen
LV	launch vehicle
MER	Mercury tracking ship

MIL	Merritt Island tracking station
MSFN	Manned Space Flight Network
PGNCS	primary guidance and navigation control subsystem
PLSS	portable life support system
PRE	Pretoria tracking station
RCS	reaction control subsystem
RED	Redstone tracking ship
SLA	spacecraft LM adapter
SM	service module
SPS	service propulsion system
SPS-1, SPS-2, ..., SPS-8	first through eighth SPS burns
S-IC	Saturn IC, LV first stage
S-II	Saturn II, LV second stage
S-IVB	Saturn IVB, LV third stage
TAN	Tananarive tracking station
T&D	transposition and docking
TEX	Corpus Christi tracking station
TLI	translunar injection
TPI	terminal phase initialization
TPF	terminal phase finalization
VAN	Vanguard tracking ship

4.0 DATA SOURCES FOR GENERATION OF THE OPERATIONAL TRAJECTORY

Input data used to calculate the D mission trajectory were taken from the following sources:

Mission objectives	reference 1
Mission constraints	references 2, 3, 4
State vector at LM ejection	reference 5
Spacecraft aerodynamics, weights, engine performance, earth and atmosphere constants, tracking ship locations, and braking gates . . .	table I(a) through I(f), respectively
Reentry digital autopilot	reference 6
Spacecraft guidance equations and logic	references 7, 8
MSFN station locations and tracking equipment	reference 9
Aerodynamic heating data	reference 10
U.S. 1962 Standard Atmosphere	reference 11
Fischer Earth Model of 1960	reference 12

5.0 OPERATIONAL TRAJECTORY DESCRIPTION

This section of the report describes the major mission events occurring during each of the six periods of activity into which the mission has been divided. Table II lists the detailed test objectives which require specific trajectory and/or vehicle attitude planning. The discussion of each period of activity indicates which of the objectives are accomplished in that period.

A summary of events, lighting, and tracking relative to mission elapsed time is included in figure 1. The earth ground tracks for the CSM are given in figure 2. The launch vehicle sequence of events is given in table III. A spacecraft sequence of events may be found in table IV(b). AOS and LOS data based on both 0° and 5° elevation angles for the network support stations are presented in table V(a) for the CSM

and in table V(b) for the LM. Sunrise and sunset times and moon rise and moon set times relative to the CSM are presented in table V(a) and those for the LM are included in table V(b).

5.1 First Period of Activities

5.1.1 Postinsertion activities.- Following insertion into a 103-n. mi. near-circular parking orbit, the S-IVB maintains the cutoff attitude for 20 seconds before maneuvering the complete configuration to a local horizontal attitude. The S-IVB then imparts an orbital rate to the CSM/LM/S-IVB combination. The flight crew then conducts a series of systems checks and configures the CSM for orbital operations. A pre-TLI demonstration is conducted within the first orbit, and the CSM platform is then realigned to the launch orientation in the first period of darkness.

5.1.2 Transposition and docking.- At approximately 2^h34^m g.e.t. the S-IVB assumes a T&D attitude with the CSM pitched 15° below the local horizontal and yawed 35° south from the orbital plane. This T&D attitude, to be revised in the near future, was selected for nominal launches in the December 1968 to March 1969 time frame.

At sunrise, approximately 2^h43^m g.e.t., the CSM separates from the S-IVB/LM with a 1 fps ΔV . The SLA panels are jettisoned at the time of CSM separation. Coasting about 1 minute to a range of 50 ft, the CSM reduces the separation velocity to 0.5 fps, pitches 180° to look at the S-IVB/LM, and nulls the separation velocity. The CSM then closes on the S-IVB/LM.

After reaching the docking interface the CSM maintains its position relative to the S-IVB/LM for a period of approximately 15 minutes. Having rolled -60°, the CSM then soft docks with the LM at approximately 3^h00^m g.e.t. The LM is repressurized and hard docking is completed before entry into darkness.

5.1.3 LM ejection and separation.- The CSM remains docked through the third period of darkness, and at approximately 4^h09^m g.e.t. the LM is ejected from the S-IVB. The CSM/LM coasts about 2.5 minutes before a 3-second SM RCS burn provides permanent separation between the CSM/LM and S-IVB before the first S-IVB restart.

5.1.4 S-IVB restarts.- The S-IVB returns to a local horizontal attitude at approximately 4^h35^m g.e.t. and preparations begin for the first of two S-IVB restarts. The first restart occurs at approximately 4^h44^m42^s g.e.t. (90 percent thrust). The second restart occurs at

approximately 6^h06^m g.e.t. (90 percent thrust), and the scheduled LOX and LH₂ propellant dumps are completed by 6^h27^m g.e.t. Reference 5 contains detailed information on the S-IVB activities for this mission.

5.1.5 SPS-1.- Meanwhile, the CSM IMU is realigned to the preferred alignment, and at 6^h01^m40^s g.e.t. as the CSM/LM passes over Hawaii the first docked SPS burn occurs. The 5-second, 36.8-fps burn is G&N controlled and uses external-ΔV targets. Resulting apogee and perigee altitudes are 131 n. mi. and 113 n. mi., respectively. No ullage is required. A partial demonstration of the capability of the G&N system to control the spacecraft in a docked configuration during a ΔV maneuver is accomplished during the burn (CSM autopilot stability margin).

5.1.6 Objectives satisfied.- Those objectives which required specific trajectory or attitude planning which were satisfied during the first period were the CSM-active docking (M20.24), and LM ejection from the SLA (P20.25). The CSM autopilot stability margin (Pl.23) was partially satisfied during this period.

5.2 Second Period of Activities

5.2.1 SPS-2.- At 22^h12^m00^s g.e.t., as the CSM/LM passes over the BDA tracking station, the first of this period's three long-duration, docked SPS burns takes place. The G&N-controlled, external-ΔV burn is targeted primarily to shift the node eastward but also has a small in-plane ΔV component to raise apogee to 191 n. mi. The nodal shift resulting from SPS-2 (and for SPS-3, SPS-4, and DPS-1) is necessary to open the launch window to approximately 3 hours. (For various late lift-offs within the launch window, some of the maneuvers will be reoriented to shift the line of nodes westward.) The apogee adjustment of this burn also permits large crew monitoring limits and prevents trajectory problems due to low perigee if large attitude dispersions occur during the burn. Additional trajectory objectives of this burn are to provide continuous SM RCS deorbit capability and to reduce the SM RCS propellant requirements for LM rescue during the rendezvous period by reducing the CSM mass. Approximately 7360 lb of SPS propellant are consumed during the 110.4-second, 849.4-fps burn. If rigid body transients were not observed on SPS-1, the SPS pitch gimbal will be intentionally misaligned 0.5°. The burn partially demonstrates the CSM DAP attitude control capability, and the 40 percent amplitude stroking test is performed. No ullage is required.

5.2.2 SPS-3.- Approximately two revolutions after SPS-2, the CSM/LM passes over the MIL tracking station at 25^h18^m30^s g.e.t., and a 2548.1-fps, G&N controlled, external-ΔV burn nominally shifts the line of nodes

approximately 10° east. Although targeted primarily out of plane to give a large nodal shift, a small in-plane ΔV component raises apogee from 191 n. mi. to 271 n. mi. and allows for possible large attitude excursions and large crew monitoring limits.

Approximately 18 680 lb of SPS propellant are consumed during the burn, further increasing the SM RCS capability for use in LM rescue or backup SM RCS deorbit. Not less than 10 seconds after ignition and no later than 30 seconds before termination, a full amplitude stroking test is employed. This test completed the CSM DAP stability margin objective.

5.2.3 SPS-4.- The final burn of the second period of activities takes place at $28^h 28^m 00^s$ g.e.t. over Texas. This burn is also G&N-controlled and nominally targeted to shift the line of nodes 1° east. The 28.0-second, G&N-controlled, external- ΔV burn provides 299.8 fps out of plane. Apogee and perigee altitudes (271 n. mi. and 115 n. mi., respectively) remain unchanged. If, however, launch is delayed more than 15 minutes, the burn will be retargeted with an in-plane component to adjust apogee (a phasing prior to rendezvous initiation) to return the trajectory to nominal lighting and tracking during the rendezvous.

5.2.4 Objectives satisfied.- The CSM autopilot stability margin objective (Pl.23) was completed during this period.

5.3 Third Period of Activities

5.3.1 LM power-up and systems check.- The third period, beginning at approximately $49^h 00^m$ g.e.t., is devoted primarily to LM systems checkout and evaluation. At approximately $42^h 10^m$ g.e.t. the two LM crew members transfer intravehicularly to the LM. The IVT will demonstrate the crew's ability to transfer to the LM by this method, and it will verify procedures and premission planning times associated with the transfer. After transfer, the LM crew will power up the LM and conduct a systems check and evaluation. This activity terminates at the beginning of the docked DPS burn.

5.3.2 Docked DPS burn.- The DPS ignites at $49^h 43^m 00^s$ g.e.t. and burns for 364.0 seconds (280 seconds at FTP), and is under PGNCs attitude control. The burn time is sufficient to verify LM PGNCs DAP attitude control capability during a docked thrusting maneuver. The flight crew will also demonstrate manual throttling and termination of the descent engine.

After the DPS has burned for 280 seconds at FTP, the flight crew will manually throttle the DPS during the remainder of the burn and will manually terminate the burn. Crew takeover corresponds to a point at which 124-fps ΔV remain to be gained. Although the burn is targeted to 368 seconds, the burn is terminated 4 seconds early to insure a manual cutoff.

The LM thrust profile, as shown in figure 3, results in 1698.3 fps being used to shift the line of nodes east by 6.7° for a nominal launch time. For late lift-offs the burn will be targeted to always give an apogee of 270 n. mi. and a perigee of 115 n. mi. A 10-second LM RCS two-jet ullage is planned.

After the docked DPS burn, which is covered by MIL and BDA, the LM systems are powered down, and the LM crew returns to the CSM through the tunnel.

5.3.3 SPS-5.- At $54^{\text{h}}26^{\text{m}}16^{\text{s}}$ g.e.t., the SPS burns for 41.5 seconds over the ETR. The resulting 550.5 fps from the PGNCs-controlled burn circularizes the orbit at 133-n. mi. altitude. The resulting circular orbit is the base orbit from which the LM-active rendezvous will be initiated in the fifth period. A 20-second, two-jet ullage is required. For late lift-offs SPS-5 will continue to be a circularization maneuver and will always last at least 40 seconds.

5.3.4 Objectives satisfied.- Objectives requiring specific attitude or trajectory planning which were satisfied during this period were the DPS burn duration effects (M13.12), and LM PGNCs DAP performance and thrust performance (M11.6).

5.4 Fourth Period of Activities

5.4.1 EVA preparation.- At approximately $60^{\text{h}}00^{\text{m}}$ g.e.t., two crewmen will move through the docking tunnel to the LM and power up and check LM systems. One LM crew member will don the EMU and, after a thorough checkout, will egress the LM at approximately $71^{\text{h}}40^{\text{m}}00^{\text{s}}$ g.e.t.

5.4.2 EVA.- The EVA crewman will move from the LM to the CM side hatch using the surface translation aids. The EVA crewman will then ingress the CSM. After a brief rest the EVA crewman will egress the CSM and move back to the LM. Some of the EVA activities are to (1) evaluate the CM hatch, (2) retrieve and stow collected samples, (3) evaluate EVA light, and (4) perform EVA photography.

5.4.3 Post-EVA.- Entering the LM through the forward hatch, the EVA crewman will doff the EVA equipment after repressurization of

the LM. The PLSS is then recharged, and the LM systems are shut down before the LM crew does an IVT through the docking tunnel.

5.4.4 Objectives satisfied.- The extravehicular activity, M20.35, objective was completed during this period (table II).

5.5 Fifth Period of Activities

5.5.1 Rendezvous profile.- The rendezvous profile begins with a 5-fps ΔV radially down, small "football" separation by the SM RCS (called a "football" because of the appearance of the LM's motion relative to the CSM; see fig. 4). The small football resulting from the 5-fps SM RCS burn is included to prevent the LM or CSM from wasting attitude propellant while station keeping during platform alignments. In addition, the maximum separation of 2.8 n. mi. is sufficient to prevent recontact of the CSM and LM during the large football phase. One-half orbit after the small football the LM burns radially up into a larger football from which it then maneuvers into a concentric orbit above and behind the CSM. After a period of coelliptic coast, the LM proceeds through one CSI-CDH sequence which sets up the conditions for the nominal LM-active TPI from below and behind.

Since this is the first manned LM separation from the CSM that is of any significant distance, the larger football resulting from the radial burn is included mainly as a safety measure. The football will permit a less difficult LM return to the CSM if the situation dictates. The large LM radial burn, termed the phasing burn, is the only AGS-controlled maneuver on the nominal mission. For all other LM burns the PGNCS will be primary, and the AGS will be in a monitor mode.

During the rendezvous the CSM will orient for and prepare to execute any maneuver that the LM is unable to perform. If this situation arises, the CSM would essentially execute an equal but oppositely-directed maneuver commonly referred to as a "mirror image" maneuver.

5.5.2 SM RCS initiated football phase.- The fifth period of activities begins with the intravehicular transfer of the two LM crew members at approximately $89^{\text{h}}00^{\text{m}}$ g.e.t. After LM power-up and systems checkout, both the LM and CSM IMU's are aligned. The LM alignment is that of a "nominal" alignment for the TPI, and the time on which the alignment is based corresponds to the time of ignition at TPI. The +X CSM stable member is colinear with the +Z LM stable member, the +Y CSM is colinear with the +Y LM stable member, and the +Z CSM stable member is colinear with the -X LM stable member. Following IMU alignments, the CSM and LM undock approximately 25 minutes before the SM RCS separation burn and station keep until approximately $93^{\text{h}}05^{\text{m}}45^{\text{s}}$ g.e.t. The SM RCS

then provides a 5-fps radially down burn to place the CSM into an equiperiod orbit (small football). The maneuver is performed with the -Z body RCS thrusters.

Because of nonnominal burn executions and differential atmospheric drag, the 5-fps ΔV is large enough to prevent recontact of the CSM and yet small enough to permit a simplified abort of the nominal rendezvous. After an IMU fine-alignment rendezvous radar checkout, the LM maneuvers for the AGS-controlled DPS phasing maneuver.

5.5.3 LM DPS phasing maneuver.- At $93^{\text{h}}50^{\text{m}}04^{\text{s}}$ g.e.t. after a 7-second, two-jet RCS ullage, the DPS, at 10 percent thrust for 15 seconds and 40 percent thrust for 10.2 seconds, provides 85-fps ΔV radially up. With this phasing burn over MER, the LM is placed into an equiperiod trajectory with apogee and perigee approximately 11.2 n. mi. above and below that of the CSM and with the maximum LM-to-CSM range (at the horizontal crossing), approximately 47.9 n. mi.

The resulting football is planned so that favorable lighting and MSFN coverage as well as acceptable ΔV 's exist if a 130° terminal phase transfer near perigee is required. Such a transfer (TPI_0) would be applicable if the nominal rendezvous profile were aborted prior to the coelliptic maneuver called the insertion burn. Once the decision is made to continue the rendezvous, the LM coasts approximately 111.7 minutes after the phasing burn through the TPI_0 position (near perigee of the football) to a position near apogee.

5.5.4 LM DPS insertion maneuver.- At approximately $95^{\text{h}}41^{\text{m}}48^{\text{s}}$ g.e.t. following a 7-second, two-jet RCS ullage, the DPS ignites over GYM and burns for 24.8 seconds at 10 percent thrust to provide 39.9-fps ΔV . The PGNCS-controlled, external- ΔV burn establishes a near-circular orbit approximately 11.2 n. mi. above that of the CSM. Following the burn the LM coasts for approximately 40.2 minutes before staging and the CSI maneuver.

5.5.5 LM RCS-interconnect CSI maneuver.- At approximately $96^{\text{h}}22^{\text{m}}00^{\text{s}}$ g.e.t. the CSI (a horizontal, retrograde burn over TAN) is scheduled. Staging occurs at the beginning of the 30.6-second, four-jet interconnect, PGNCS-controlled burn. The 37.8-fps ΔV from the maneuver creates a perigee approximately 10.1 n. mi. below that of the CSM.

5.5.6 LM APS CDH maneuver.- After a 44.5-minute coast the LM reaches perigee. Following a 4-second, four-jet LM RCS ullage, the APS burns for 3.1 seconds and provides 37.9-fps ΔV nearly horizontal and retrograde. The PGNCS-controlled burn over RED establishes a near-circular orbit approximately 10.1 n. mi. below the CSM. At burn termination the LM trails the CSM by 75.8 n. mi.

5.5.7 LM RCS TPI maneuver.- The LM coasts approximately 53 minutes after CDH before reaching the TPI point. Initiated over TAN on an elevation angle of 27.5° at approximately 8 minutes into darkness, the TPI burn of 17.6 seconds (four-jet RCS interconnect) and 21.9-fps ΔV is applied primarily along the line of sight. The 130° terminal phase requires about 45 minutes (including braking).

The braking schedule assumed for the trajectory generation is presented in table I(f).

Station keeping begins at approximately $98^{\text{h}}36^{\text{m}}$ g.e.t. over HAW and docking is assumed to occur at $98^{\text{h}}53^{\text{m}}$.

5.5.8 APS long-duration burn.- After docking the crew configures the ascent stage for the long APS burn and then returns to the CSM. The CSM jettisons the ascent stage and applies 3.0 fps out of plane to provide a safe separation at APS ignition. At approximately $100^{\text{h}}26^{\text{m}}00^{\text{s}}$ g.e.t., the APS thrusts for an estimated 360.0 seconds to propellant depletion. The LM IMU remains unchanged from the alignment for the rendezvous and consequently the thrust is targeted to a maximum of 45° out of plane to prevent gimbal lock. The resulting 5246.7 fps from the PGNCs-controlled, external- ΔV burn over GYM, TEX, and MIL raises apogee to 3237-n. mi. altitude. The burn is preceded by a four-jet, 3-second ullage, and the interconnect remains open through the burn to provide attitude control.

5.5.9 Objectives satisfied.- Those objectives requiring specific trajectory planning which were satisfied during this period include CSM single-crewman rendezvous capability (P20.33), AGS ΔV capability using DPS (P12.4), LM jettison (P20.29), LM-CSM undocking (P20.26), PGNCs-controlled APS burn (P11.14), AGS CES attitude translation control (P12.3), rendezvous radar tracking performance (P16.4), LM elevation rendezvous (P20.27), LM-active docking (M20.28), and a long-duration APS burn (M13.11).

5.6 Sixth Period of Activities

If the SPS becomes unable to deorbit the CM, the SM RCS will be required to effect the deorbit. The ΔV available from the SM RCS is adequate for this purpose through the first five periods of activity.

To reduce the RCS ΔV requirements for deorbit in the sixth period of activities, or, equivalently, to reduce the SM RCS propellant reserved for the backup deorbit, a perigee adjustment is scheduled the day following rendezvous.

5.6.1 SPS-6.-- At approximately $121^{\text{h}}59^{\text{m}}00^{\text{s}}$ g.e.t. the SPS thrusts over CRO for 2.4 seconds under control of the G&N using external- ΔV targets. Preceded by a 20-second, two-jet ullage the burn yields 62.7 fps and lowers perigee to 95 n. mi.

5.6.2 SPS-7.-- Two days following the SPS-6 perigee adjustment the final trajectory adjustment before deorbit occurs ($169^{\text{h}}47^{\text{m}}00^{\text{s}}$ g.e.t.). The burn, SPS-7, is designed to raise apogee to 210 n. mi. and to position apogee in the southern hemisphere. This positioning is desirable because (1) it allows more free-fall time to 400 000 ft (assumed entry interface) after the nominal SPS deorbit, and (2) it slightly reduces the RCS ΔV requirements for backup SM RCS deorbit into the nominal recovery area.

The maneuver scheduled over MIL requires 6.2 seconds of burn and 155.7 fps of ΔV . A 20-second, two-jet ullage is necessary prior to SPS ignition. The burn is G&N-controlled and uses external- ΔV targets.

5.6.3 SPS-8.-- The deorbit maneuver, SPS-8, is scheduled at $238^{\text{h}}10^{\text{m}}00^{\text{s}}$ g.e.t., which is slightly less than three days after SPS-7. The retrofire occurs approximately 700 n. mi. southeast of Hawaii and is covered by both HAW and RED. The deorbit burn of 12.3 seconds and 313.4 fps is a G&N-controlled and external- ΔV -targeted maneuver which requires a 20-second two-jet ullage.

5.6.4 Preentry sequence.-- At $9^{\text{d}}22^{\text{h}}10^{\text{m}}12.28^{\text{s}}$ g.e.t. the SPS engines will be cut off and a 15.3-minute coast to atmospheric entry will be started. Approximately 90 seconds following the deorbit burn, the SM will be jettisoned. The crew will manually yaw the CSM 45° out of plane to the north before separation to ensure against possible CM/SM recontact. After CM/SM separation, a short time is allowed for an adequate separation distance, and the spacecraft is maneuvered to the reentry trim attitude.

5.6.4.1 Reentry: Reentry at 400 000-ft altitude will occur at 33.36° N geodetic latitude and 89.70° W longitude approximately 15.3 minutes after SPS retrofire. The deorbit point and subsequent ground track and pertinent geographic locations of various deorbit and reentry events are shown in figure 5.

Landing of the CM following the nominal reentry trajectory control will occur at $9^{\text{d}}22^{\text{h}}40^{\text{m}}48.17^{\text{s}}$ g.e.t. at 30.64° N geodetic latitude and 58.97° W longitude. The CM maneuver envelope for this prime recovery area is shown in figure 6.

5.6.4.2 Reentry targeting: Figure 7 presents a representative reentry corridor. This reentry corridor shows several reentry limit and

target lines. The bottom line is the 10g, zero-lift undershoot boundary. The next line is the SPS target line, which is used for generation of block data. Nominal deorbits are not constrained to this line. The mode I line represents the lift-vector-up overshoot boundary. The mode III line is an overshoot boundary, based on a lift-vector-down attitude until 0.2g, then lift-vector-up. The mode II line is also a lift-vector-down attitude until 0.2g, but then the spacecraft is rolled during reentry. The RCS target line is used to define the SM RCS propellant-budget red line. Sufficient SM RCS propellant is reserved that reentry conditions from a hybrid deorbit are below this boundary. The undershoot and all overshoot lines include worst-case L/D, atmospheric, and latitude dispersions. For further discussion of the boundaries and their use in contingency cases refer to references 13 and 14.

The reentry interface velocity and flight-path angle for the end-of-mission SPS deorbit is also shown in figure 7. The reentry state vector data is presented in table VII, and table I(a) contains the reentry trim aerodynamic coefficients for Mach Numbers 0.2 through 29.5.

For guided reentries, the optimum target location after the SPS deorbit is on the ground track at the 55° bank-angle contour line for L/D's between 0.26 and 0.42. If necessary, the target location for cross-range targeting can be placed off the ground track anywhere to within approximately 22 n. mi. of the lateral boundaries of the theoretical maneuver envelope. However, the included target was selected on the ground track. For a further discussion concerning the reentry targeting criteria and reentry monitoring, see references 15 and 16.

5.6.4.3 Sequence-of-events and trajectory parameters: Figure 8 presents the altitude-range profile of the reentry trajectory; significant trajectory and guidance events are noted. Table VIII presents a more detailed CM sequence of events for reentry. Figure 9 shows the command bank angle, load factor, and altitude profiles versus time from the reentry interface. The maximum load factor experienced for this trajectory was 3.20g. Figures 10 and 11 present other pertinent reentry trajectory data as a function of time from a 400 000-ft altitude. The maximum total heating rate obtained was 60.80 (B.t.u./ft²)/sec, and the total heat load was 12 676 B.t.u./ft².

The outer, middle, and inner gimbal angle time histories during reentry are shown in figure 12.

Shown in figure 13 are the communications blackout regions based upon data from reference 17. The normal CMC DSKY display quantities for the final phase of reentry, Program P67, are shown in figure 14.

Figure 15 shows the velocity - load-factor profile that can be expected on the EMS display during the nominal guided reentry. The EMS lunar nonexit range limit pattern is used for this plot. Figure 15 also presents the CMC-commanded bank angle and the EMS-computed range-to-go as a function of EMS velocity.

The CM is on the chutes for approximately 5 minutes 10 seconds. The relative velocity is 30.0 fps at touchdown.

5.6.5 SM RCS backup deorbit.- This section describes events which would be applicable if SPS-8 does not occur. Shortly before SPS-8, it is assumed that some systems failure is discovered which would prevent the SPS from being used to deorbit the CM. The CSM would then coast approximately 3/4 revolution to a position over Carnarvon. At approximately 239^d15^m40.3^s g.e.t. the SM RCS would burn for 217.7 seconds providing 100.9-fps ΔV.

5.6.6 SM RCS preentry sequence.- At 9^d23^h19^m17.98^s g.e.t. the SM/RCS engines will be cut off and a 37.7-minute coast to atmospheric entry will be started. The crew will manually yaw the CSM 45° out of plane to the north before separation to ensure against possible CM/SM recontact. After CM/SM separation a short time is allowed for an adequate separation distance, and the CM is maneuvered to the reentry trim attitude.

5.6.6.1 Reentry: Reentry at 400 000-ft altitude will occur at 33.47° N geodetic latitude and 104.20° W longitude approximately 37.7 minutes after the SM RCS deorbit burn. The deorbit point and subsequent ground track and pertinent geographic locations of various deorbit and reentry events are shown in figure 16.

Following a nominally-controlled reentry (lift-vector-down manually to 1.0g and then G&N reentry), CM touchdown will occur at 10^d00^h15^m26.72^s g.e.t. at 23.10° N geodetic latitude and 59.78° W longitude. The CM maneuver envelope for this recovery area is shown in figure 17.

5.6.6.2 Reentry targeting: Figure 7 presents a representative reentry corridor which shows the 400 000-ft entry conditions for the SM RCS deorbit. Nominal entry for this position in the reentry corridor is to hold the lift-vector-down to 1.0g and then fly the CMC roll commands. The reentry corridor limit lines are discussed in section 5.6.4.2.

The reentry interface velocity and flight-path angle for the end-of-mission SM RCS deorbit is presented in table IX. Table I(a) contains the reentry trim aerodynamic coefficients for Mach numbers 0.2 through 29.5.

5.6.6.3 Trajectory parameters: The maximum load factor experienced for a guided trajectory to the 55° center line target shown in figure 17 was 3.26g. The maximum total heating rate obtained was 68.06 (B.t.u./ft²)sec, and the total heat load was 13 829 B.t.u./ft². The CM is on the chutes for approximately 5 minutes 10 seconds. The relative velocity at touchdown is 29.9 fps.

TABLE I.- TRAJECTORY SIMULATION PARAMETERS

(a) CM aerodynamic coefficients^a

$$\left[\begin{array}{l} \text{Nominal c.g. location} \\ X_{CG} = 1041.7 \text{ in.}; Y_{CG} = -0.4 \text{ in.}; Z_{CG} = 5.6 \text{ in.} \end{array} \right]$$

Mach number, M	Lift coefficient, C_L	drag coefficient, C_D	Lift-to-drag ratio, L/D	Trim angle of attack, α_T , deg
0.2	0.2226	0.8279	0.2689	171.26
0.4	0.2228	0.8565	0.2601	168.16
0.7	0.2494	0.9920	0.2514	165.62
0.9	0.3031	1.0745	0.2821	162.93
1.1	0.4673	1.1890	0.3930	156.54
1.2	0.4557	1.1740	0.3882	156.60
1.35	0.5362	1.2952	0.4140	155.43
1.65	0.5321	1.2822	0.4150	154.56
2.0	0.5191	1.2980	0.4000	154.54
2.4	0.4922	1.2690	0.3878	155.15
3.0	0.4647	1.2456	0.3731	155.53
4.0	0.4272	1.2374	0.3452	157.36
10.0	0.4150	1.2479	0.3325	157.95
29.5	0.3706	1.3127	0.2823	161.30

^aFrom references 17 and 18.

TABLE I.- TRAJECTORY SIMULATION PARAMETERS - Continued

(b) Spacecraft weights^a

Module weights:

CSM at insertion (crew, equipment, propellant), lb . . .	59 224.0
LM at insertion, lb	32 000.0
SLA ring, lb	3 776.0
Total injected, lb	95 000.0

Propellant weights:

SPS propellant (includes 862.4 lb unusable), lb	35 470.3
DPS propellant (includes 469.5 lb unusable), lb	17 979.5
APS propellant (includes 140.6 lb unusable), lb	4 434.7
SM RCS propellant (includes 57.6 lb unusable), lb	1 362.4
CM RCS propellant (includes 38.8 lb unusable), lb	270.0
LM RCS propellant (includes 45.0 lb unusable), lb	633.0

Miscellaneous weights:

Total ascent stage and propellant, lb	9 965.0
Total descent stage and propellant, lb	22 035.0
LM crew and equipment, lb	490.0
CM at insertion, lb	13 065.0
CM at entry interface, lb	12 984.0
CM at main chute deployment, lb	12 462.0
CM at touchdown, lb	11 779.0

^aFrom reference 17.

TABLE I.- TRAJECTORY SIMULATION PARAMETERS - Continued

(c) Performance

SPS thrust data^a:

Thrust, lb

Total burn time of 0 to 200 sec	20 824.0
Total burn time greater than 200 sec	21 107.0

Specific impulse, sec

Total burn time of 0 to 200 sec	312.5
Total burn time greater than 200 sec	312.6

DPS thrust data^b:

Thrust (100 percent), lb	10 500.0
FTP, total burn time of 0 sec (92.5 percent).	9 712.5
FTP, total burn time greater than 370 sec (94.5 percent)	9 922.5

Specific impulse, sec

Docked DPS, average	302.3
Phasing, average	293.6
Insertion	290.9

APS thrust data^c:

Thrust, lb	3 450.0
Specific impulse, sec	309.9

SM RCS thrust data^a:

Thrust, lb	393.1
Specific impulse, sec	276.0

LM RCS thrust data^b:

Thrust, lb	400.0
Specific impulse, sec	273.0

^aFrom reference 18.^bFrom reference 19.^cFrom reference 20.

TABLE I.- TRAJECTORY SIMULATION PARAMETERS - Continued

(d) Earth and atmosphere constants^a

Radius of spherical earth, R_E , ft	20 925 738.19
Gravity at sea level, ft/sec ²	32.146 546
Feet per nautical mile, ft/n. mi.	6076.11549
Degrees per radian, deg/rad	57.2957795
Atmospheric pressure at sea level, lb/in ²	14.6959722
Density at sea level, slug/ft ³	2.3768846×10^{-3}
Speed of sound at sea level, fps	1116.45
Viscosity at sea level, slug/ft/sec	$3.73717340 \times 10^{-7}$
Gravity constant for converting mass to weight, ft/sec ²	32.174049

^aFrom reference 11 and 12.

TABLE I.- TRAJECTORY SIMULATION PARAMETERS - Concluded

(e) Tracking ship locations

Ship name	Major equipment	Location			Purpose
		Geodetic latitude, deg	Longitude, deg	Altitude, ft	
Redstone (RED)	USB - 30'	15.0 N	150.0 W	32.808399	Coverage for (1) CDH and (2) SPS-8
Mercury (MER)	USB - 30'	25.0 S	169.0 W	32.808399	Coverage for phasing
Vanguard (VAN)	USB - 30'	32.0 N	45.0 W	32.808399	Coverage for S-IVB insertion
Huntsville (HTV)	USB - 30'	7.0 S	170.0 E	32.808399	Coverage for TPF

(f) Braking schedule assumed for terminal phase of LM-active rendezvous^a

Gate	Range, ft	Purpose
1	6076.2	Reduce range rate to 15 fps
2	1000.0	Reduce range rate to 5 fps
3	105.0	Reduce range rate to zero

^aFrom reference 21.

TABLE II.- DETAILED TEST OBJECTIVES REQUIRING SPECIFIC
AND SPACECRAFT ATTITUDE PLANNING^a

Objective number	Title
M20.24	CSM active docking
M13.11	Long duration APS burn
M13.12	DPS burn duration effects
M11.6	LM PGNCs/DAP performance and thrust performance
M20.28	LM-active docking
M20.35	Extravehicular activity
P20.25	LM ejection from SLA
P20.27	LM evaluation rendezvous
P16.4	Rendezvous radar tracking performance
P12.3	AGS/CES attitude/translation control
P11.14	PGNCs controlled APS burn
P1.23	CSM autopilot stability margin
P20.26	LM-CSM undocking
P20.29	LM jettison
P12.4	AGS ΔV capability using DPS
P20.33	CSM single crewman rendezvous capability

^aFrom reference 1.

TABLE III.- SEQUENCE OF EVENTS FOR LAUNCH^a

Event	Time from lift-off, min:sec
Lift-off	0:00.0
Maximum dynamic pressure	1:17.250
S-IC inboard engine cutoff (CECO)	2:19.316
Tilt arrest	2:20.000
S-IC thrust termination (OBECO) and S-IC/S-II separation	2:30.623
S-II stage at 90 percent thrust	2:35.061
Mixture ratio shift to 5.5	2:37.161
Jettison S-IC/S-II forward interstage	3:00.861
Jettison launch escape system	3:05.861
Mixture ratio shift to 4.7	7:02.210
S-II thrust termination and S-II/S-IVB separation	8:44.192
S-IVB stage at 90 percent thrust	8:49.192
Jettison S-IVB ullage cases	8:56.641
S-IVB stage thrust termination - parking orbit insertion - postinsertion ullage	11:35.280

^aTaken from reference 5.

TABLE IV.- SEQUENCE OF EVENTS FOR SPACECRAFT MANEUVERS

Period of activity	Event	G.e.t. of initiation hr:min:sec	Time to next event, hr:min:sec	Propulsion system	Burn time, sec	Ullage time, sec	Total ΔV, fps	Guidance mode	Resulting h _a /h _p , n. mi.	Tracking stations
1	Launch ^a	00:00:00.0	00:11:35.3	---	---	---	---	---	---	ETR
	Insertion	00:11:35.3	02:22:24.7	---	---	---	---	---	---	ETR, VAN
	S-IVB to separation attitude	02:34:00.0	00:09:00.0	APS	---	---	---	---	---	None
	CSM separation and docking ^b	02:43:00.0	01:25:57.0	SM RCS	7.0	---	1.0	---	---	None
	LM ejection	04:08:57.0	01:52:43.0	SM RCS	3.0	---	0.4	---	---	None
2	SFS-1 (docked)	06:01:40.0	16:10:20.0	SFS	5.0	0	36.8	G&N ext ΔV	112/109 131/113	HAW
	SFS-2 (docked)	22:12:00.0	03:06:30.0	SFS	110.4	0	849.4	G&N ext ΔV	191/113	BDA
	SFS-3 (docked)	25:18:30.0	03:09:30.0	SFS	277.6	0	2548.1	G&N ext ΔV	271/115	MIL, BDA
	SFS-4 (docked)	28:28:00.0	11:32:00.0	SFS	28.0	c 20	299.8	G&N ext ΔV	271/115	TEX
	LM systems evaluation	40:00:00.0	09:43:00.0	DPS	---	---	---	---	---	---
3	DPS burn (docked)	49:43:00.0	04:43:16.0	DPS	364.0	10	1698.3	PGNCS - ext ΔV	270/115	MIL, BDA
	SFS-5 (docked)	54:26:16.0	17:13:44.0	SFS	41.5	20	550.5	G&N ext ΔV	133/133	GYM
	EVA	71:40:00.0	21:25:45.0	---	---	---	---	---	---	---
	CSM separation burn	93:05:45.0	00:44:18.6	SM RCS	10.9	---	5.0	---	---	None
	Phasing	93:50:03.6	01:51:44.4	DPS ^d	25.2	c 7	85.0	AGS - ext ΔV	131/130	MER
5	Insertion	95:41:48.0	00:40:12.0	DPS - 10%	24.8	c 7	39.9	PGNCS - ext ΔV	143/141	GYM
	CSI	96:22:00.0	00:44:27.8	LM RCS	30.6	0	37.8	PGNCS - ext ΔV	139/120	TAN
	CDH	97:06:27.8	00:52:52.8	APS	3.1	4	37.9	PGNCS - ext ΔV	120/118	RED
	TPI	97:59:20.6	02:26:39.4	LM RCS	17.6	0	21.9	PGNCS - Lambert	132/119	TAN
	APS long duration burn	100:26:00.0	21:33:00.0	APS	360.0	3	5246.1	PGNCS - ext ΔV	3237/129	GYM, TEX, MIL
	SFS-6 (solo)	121:59:00.0	47:48:00.0	SFS	2.4	a 20	62.7	G&N ext ΔV	129/95	CRO
	SFS-7 (solo)	169:47:00.0	68:23:00.0	SFS	6.2	a 20	155.7	G&N ext ΔV	210/93	MIL
	SFS-8 (deorbit)	238:10:00.0	00:15:30.4	SFS	12.3	a 20	313.4	G&N ext ΔV	208/99	HAW, RED

^aLaunch is assumed to occur at 1600 G.m.t. on February 20, 1969.

^bUllage time given is for separation from S-IVB with 1 fps.

^c2 jet ullage.

^d10 percent thrust for 15 seconds; 40 percent thrust for 10.2 seconds.

^eThe velocity-to-be-gained residuals will be trimmed by RCS using PGNCS (if necessary).

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY

(a) CSM

MSFN STATION NAME	ACQUISITION			LOSS			DURATION			ACQUISITION			LOSS			DURATION			MAX ELEV			MIN RANGE			REV NO
	DAY	HR	MIN	DAY	HR	MIN	DAY	HR	MIN	DAY	HR	MIN	DAY	HR	MIN	DAY	HR	MIN	DAY	HR	MIN	DAY	HR	MIN	
ASC (C) TPQ-18	0	3	28	9	0	3	34	7	5	58	0	3	29	57	0	3	32	17	2	20	7.7	719.	514.	3.2	
ACN (S) USB-30*	0	3	28	10	0	3	34	9	5	58	0	3	29	56	0	3	32	19	2	23	7.7	719.	511.	3.2	
PRE (C) MPS-25M	0	3	38	58	0	3	46	16	7	18	0	3	39	49	0	3	45	3	5	14	30.6	852.	200.	3.4	
TAN (C) FPS-16M	0	3	43	46	0	3	48	40	4	54	0	0	0	0	0	0	0	0	0	0	3.8	699.	664.	3.4	
CRO (C) FPQ-6	0	3	58	19	0	4	5	52	7	32	0	3	59	17	0	4	4	50	5	33	24.9	736.	240.	3.6	
CRD (S) USB-30*	0	3	58	19	0	4	5	52	7	32	0	3	59	17	0	4	4	50	5	33	24.9	736.	239.	3.6	
HTV (S) USB-30*	0	4	15	4	0	4	17	49	2	45	0	0	0	0	0	0	0	0	0	0	.7	829.	823.	3.7	
HAW (C) FPS-16M	0	4	23	21	0	4	30	46	7	25	0	4	24	14	0	4	29	33	5	18	28.1	847.	220.	3.8	
HAW (S) USB-30*	0	4	23	21	0	4	30	46	7	25	0	4	24	14	0	4	29	33	5	18	28.2	847.	220.	3.8	
RED (S) USB-30*	0	4	26	51	0	4	30	17	3	25	0	0	0	0	0	0	0	0	0	0	1.5	806.	793.	3.8	
CAL (C) FPS-16	0	4	32	33	0	4	40	54	7	34	0	4	33	38	0	4	39	9	5	30	23.1	751.	261.	4.0	
GDS (S) USB-85*	0	4	33	29	0	4	40	54	7	25	0	4	34	23	0	4	39	45	5	21	30.3	583.	209.	4.0	
GYM (S) USB-30*	0	4	34	58	0	4	42	13	7	15	0	4	36	3	0	4	41	5	5	2	15.0	786.	360.	4.0	
WHS (C) FPS-16M	0	4	35	40	0	4	43	14	7	34	0	4	36	37	0	4	42	16	5	38	81.1	489.	111.	4.0	
TEX (S) USB-30*	0	4	37	54	0	4	45	20	7	25	0	4	39	1	0	4	44	21	5	19	28.6	554.	219.	4.0	
MIL (S) USB-30*	0	4	41	32	0	4	49	0	7	27	0	4	42	27	0	4	47	54	5	26	37.2	552.	176.	4.0	
PAT (C) FPQ-6	0	4	41	34	0	4	49	3	7	28	0	4	42	29	0	4	47	58	5	28	41.1	538.	163.	4.0	
GBI (C) TPQ-18	0	4	42	6	0	4	49	37	7	30	0	4	43	17	0	4	48	46	5	29	39.1	841.	170.	4.1	
GBM (S) USB-30*	0	4	42	7	0	4	49	38	7	30	0	4	43	17	0	4	48	47	5	29	38.7	840.	171.	4.1	
BDA (C) FPS-16M	0	4	45	57	0	4	50	11	4	14	0	0	0	0	0	0	0	0	0	0	2.9	776.	717.	4.1	
BDQ (C) FPQ-6	0	4	45	57	0	4	50	11	4	14	0	0	0	0	0	0	0	0	0	0	2.9	776.	717.	4.1	
BDA (S) USB-30*	0	4	45	57	0	4	50	11	4	14	0	0	0	0	0	0	0	0	0	0	2.9	776.	717.	4.1	
ANG (S) USB-30*	0	4	46	49	0	4	54	21	7	32	0	4	47	46	0	4	53	19	5	32	25.1	742.	238.	4.1	
ASC (C) TPQ-18	0	5	0	42	0	5	7	46	7	4	0	5	1	49	0	5	6	45	4	55	15.8	806.	336.	4.2	
ACN (S) USB-30*	0	5	0	43	0	5	7	46	7	3	0	5	1	51	0	5	6	45	4	54	15.4	804.	340.	4.2	
PRE (C) MPS-25M	0	5	12	15	0	5	19	21	5	5	0	5	13	31	0	5	18	17	4	46	18.2	624.	304.	4.3	
TAN (C) FPS-16M	0	5	19	20	0	5	20	13	0	53	0	0	0	0	0	0	0	0	0	0	.2	852.	852.	4.4	
CRD (C) FPQ-6	0	5	32	19	0	5	37	51	5	31	0	5	34	49	0	5	35	49	0	59	5.8	803.	584.	4.4	
CRD (S) USB-30*	0	5	32	19	0	5	37	51	5	31	0	5	34	50	0	5	35	49	0	58	5.8	804.	584.	4.6	
GWM (S) USB-30*	0	5	43	40	0	5	50	37	6	56	0	5	44	48	0	5	49	19	4	30	15.0	655.	353.	4.7	
HAW (C) FPS-16M	0	5	57	36	0	6	3	29	5	52	0	5	59	14	0	6	1	49	2	34	7.1	871.	549.	4.8	
HAW (S) USB-30*	0	5	57	36	0	6	3	29	5	52	0	5	59	14	0	6	1	49	2	35	7.1	871.	549.	4.8	
CAL (C) FPS-16	0	6	5	49	0	6	13	10	7	21	0	6	6	47	0	6	11	58	5	11	23.7	600.	258.	4.9	
GDS (S) USB-35*	0	6	6	34	0	6	13	41	7	6	0	6	7	51	0	6	12	36	4	45	16.5	653.	340.	4.9	
GYM (S) USB-30*	0	6	8	8	0	6	15	45	7	36	0	6	9	11	0	6	14	53	5	42	59.8	536.	129.	5.0	
WHS (C) FPS-16M	0	6	11	8	0	6	16	8	7	12	0	6	10	6	0	6	15	4	4	57	15.2	818.	361.	5.0	
TEX (S) USB-30*	0	6	15	40	0	6	18	39	7	30	0	6	12	10	0	6	17	32	5	22	18.8	767.	313.	5.0	
MIL (S) USB-30*	0	6	15	40	0	6	20	39	4	58	0	0	0	0	0	0	0	0	0	0	4.1	877.	681.	5.0	
PAT (C) FPQ-6	0	6	15	40	0	6	20	46	5	5	0	0	0	0	0	0	0	0	0	0	4.3	877.	672.	5.0	

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION			LOSS			DURATION			ACQUISITION			LOSS			DURATION			RANGE AND ELEVATION					
	DAY	HR	MIN SEC	DAY	HR	MIN SEC	DAY	HR	MIN SEC	DAY	HR	MIN SEC	DAY	HR	MIN SEC	DAY	HR	MIN SEC	DAY	HR	MIN SEC	MAX ELEV	MAX RANGE	MIN RANGE
ASC (C) TPQ-18	0	16	2	36	0	16	6	42	4	6	0	0	0	0	0	0	0	0	0	0	2.2	781.	773.	11.2
ACN (S) USB-30*	0	16	2	39	0	16	6	42	4	3	0	0	0	0	0	0	0	0	0	0	2.2	782.	776.	11.2
GWM (S) USB-30*	0	16	43	31	0	16	48	37	5	5	0	0	0	0	0	0	0	0	0	0	4.3	862.	680.	11.6
HTV (S) USB-30*	0	16	51	13	0	16	57	54	6	40	0	16	52	43	0	16	56	26	3	43	8.6	906.	542.	11.7
MER (S) USB-30*	0	16	57	21	0	17	5	28	8	6	0	16	58	17	0	17	4	25	6	7	47.3	854.	169.	11.8
CYI (C) MPS26	0	17	39	37	0	17	46	6	6	29	0	17	40	57	0	17	44	44	3	47	8.8	858.	500.	12.2
CYI (S) USB-30*	0	17	39	37	0	17	46	6	6	29	0	17	40	57	0	17	44	44	3	47	8.8	858.	500.	12.2
MER (S) USB-30*	0	18	31	35	0	18	39	0	7	24	0	18	32	48	0	18	37	38	4	49	13.5	913.	439.	12.8
ANG (S) USB-30*	C	19	2	25	0	19	8	5	5	39	0	19	4	59	0	19	6	5	1	5	5.8	833.	607.	13.1
VAN (S) USB-30*	0	19	9	42	0	19	11	49	2	6	0	0	0	0	0	0	0	0	0	0	.1	876.	876.	13.2
CYI (C) MPS26	0	19	12	27	0	19	20	3	7	36	0	19	13	38	0	19	19	11	5	32	38.2	822.	174.	13.2
CYI (S) USB-30*	0	19	12	27	0	19	20	3	7	36	0	19	13	38	0	19	19	11	5	32	38.2	822.	174.	13.2
MAD (S) USB-85*	0	19	16	38	0	19	22	22	5	44	0	19	18	50	0	19	20	22	1	32	6.4	779.	572.	13.3
CRO (C) FPQ-6	0	19	49	58	0	19	54	12	4	13	0	0	0	0	0	0	0	0	0	0	2.7	872.	775.	13.6
CRO (S) USB-30*	0	19	49	59	0	19	54	12	4	13	0	0	0	0	0	0	0	0	0	0	2.7	872.	776.	13.6
HSK (S) USB-85*	0	19	56	55	0	20	3	51	6	55	0	19	58	23	0	20	2	29	4	6	10.1	930.	513.	13.7
MER (S) USB-30*	0	20	5	49	0	20	12	59	7	9	0	20	7	8	0	20	11	32	4	24	11.6	725.	480.	13.8
BDA (C) FPS-16M	0	20	38	33	0	20	41	46	3	13	0	0	0	0	0	0	0	0	0	0	1.7	878.	786.	14.1
BDO (C) FPQ-6	0	20	38	33	0	20	41	46	3	13	0	0	0	0	0	0	0	0	0	0	1.7	878.	786.	14.1
BDA (S) USB-30*	0	20	38	33	0	20	41	46	3	13	0	0	0	0	0	0	0	0	0	0	1.7	879.	786.	14.1
ANG (S) USB-30*	0	20	34	53	0	20	42	31	7	37	0	20	35	57	0	20	41	30	5	32	21.7	732.	277.	14.1
VAN (S) USB-30*	0	20	40	21	0	20	47	27	7	5	0	20	41	37	0	20	46	16	4	38	16.5	609.	337.	14.1
CYI (C) MPS26	0	20	46	27	0	20	53	39	7	11	0	20	47	44	0	20	52	35	4	50	18.1	625.	315.	14.2
CYI (S) USB-30*	0	20	46	27	0	20	53	39	7	11	0	20	47	44	0	20	52	35	4	50	18.1	625.	315.	14.2
MAD (S) USB-85*	0	20	49	29	0	20	55	44	6	14	0	20	50	57	0	20	54	18	3	21	7.8	830.	526.	14.3
CRO (C) FPQ-6	0	21	21	26	0	21	29	24	7	58	0	21	22	22	0	21	28	19	5	57	36.0	861.	206.	14.6
CRO (S) USB-30*	0	21	21	26	0	21	29	25	7	58	0	21	22	22	0	21	28	19	5	57	36.0	861.	206.	14.6
HSK (S) USB-85*	0	21	29	49	0	21	37	40	7	51	0	21	30	48	0	21	36	39	5	51	29.4	536.	246.	14.7
MER (S) USB-30*	0	21	39	24	0	21	47	20	7	55	0	21	40	25	0	21	46	12	5	46	27.0	878.	260.	14.8
TEX (S) USB-30*	0	22	4	41	0	22	7	32	2	50	0	0	0	0	0	0	0	C	0	0	1.1	882.	819.	15.0
MIL (S) USB-30*	0	22	6	15	0	22	12	51	6	36	0	22	7	33	0	22	11	33	4	0	12.0	882.	419.	15.0
PAT (C) FPQ-6	C	22	6	12	0	22	12	53	6	40	0	22	7	28	0	22	11	36	4	7	12.8	880.	402.	15.0
GMI (C) TPQ-18	C	22	6	16	0	22	13	24	7	8	0	22	7	24	0	22	12	16	4	51	22.5	877.	268.	15.1
GBI (S) USB-30*	C	22	6	16	0	22	13	25	7	8	0	22	7	25	0	22	12	16	4	51	22.6	879.	267.	15.1
ANG (S) USB-30*	0	22	10	5	0	22	14	58	4	52	0	0	0	0	0	0	0	0	0	0	4.2	879.	661.	15.1
BDA (C) FPS-16M	0	22	9	43	0	22	16	54	7	10	0	22	10	54	0	22	15	40	4	46	19.4	880.	299.	15.1
BDO (C) FPQ-6	0	22	9	43	0	22	16	54	7	10	0	22	10	54	0	22	15	40	4	46	19.4	880.	299.	15.1

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		RANGE AND ELEVATION		REV NO							
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	RANGE		MIN	RANGE					
BDA (S) USB-3C	0	22	9	43	0	22	16	54	0	22	10	54	0	22	15	40	4	46	19.3	880.	300.	15.1		
VAN (S) USB-30	0	22	13	40	0	22	21	16	0	22	14	29	0	22	20	7	5	37	43.1	878.	161.	15.2		
CYI (C) MPS-20	0	22	20	18	0	22	27	42	0	22	21	30	0	22	26	32	5	1	17.7	597.	343.	15.2		
CYI (S) USB-30	0	22	20	18	0	22	27	42	0	22	21	30	0	22	26	32	5	1	17.7	597.	343.	15.2		
MAD (S) USB-85	0	22	22	39	0	22	29	2	0	22	24	25	0	22	27	13	2	48	8.1	749.	560.	15.3		
CRO (C) FPQ-5	0	22	54	50	0	23	4	33	0	22	50	4	0	23	3	21	7	16	27.4	1014.	376.	15.6		
CRO (S) USB-30	0	22	54	50	0	23	4	33	0	22	50	5	0	23	3	21	7	16	27.4	1013.	376.	15.6		
HSK (S) USB-05	0	23	3	7	0	23	12	57	0	23	4	15	0	23	11	46	7	30	49.7	1007.	234.	15.7		
MER (S) USB-30	0	23	13	26	0	23	22	29	0	23	14	32	0	23	21	27	6	54	38.6	1020.	248.	15.8		
GYM (S) USB-3C	0	23	35	8	0	23	47	44	0	23	37	25	0	23	38	21	0	56	791.	791.	606.	16.0		
WHS (C) FPS-16M	0	23	37	13	0	23	41	32	0	23	0	0	0	23	0	0	0	0	3.0	805.	720.	16.0		
TEX (S) USB-30	0	23	36	53	0	23	44	15	0	23	38	3	0	23	43	15	5	12	18.4	802.	314.	16.0		
MIL (S) USB-3C	0	23	40	23	0	23	47	57	0	23	41	31	0	23	47	5	5	33	44.4	866.	156.	16.1		
PAT (C) FPQ-0	0	23	40	23	0	23	47	56	0	23	42	32	0	23	47	4	5	32	41.6	867.	163.	16.1		
GBI (C) TPQ-18	0	23	40	53	0	23	48	18	0	23	42	2	0	23	47	17	5	15	19.4	799.	299.	16.1		
GBM (S) USB-30	0	23	40	54	0	23	48	18	0	23	42	2	0	23	47	18	5	15	19.3	798.	300.	16.1		
BDA (C) FPS-16M	0	23	44	7	0	23	51	45	0	23	45	7	0	23	50	49	5	42	72.1	504.	118.	16.1		
BDQ (C) FPQ-5	0	23	44	7	0	23	51	45	0	23	45	7	0	23	50	49	5	42	72.1	504.	118.	16.1		
BDA (S) USB-30	0	23	44	7	0	23	51	45	0	23	45	7	0	23	50	49	5	42	72.3	504.	118.	16.1		
VAN (S) USB-3C	0	23	48	22	0	23	56	9	0	23	49	28	0	23	55	12	5	44	40.7	868.	175.	16.2		
MAD (S) USB-85	0	23	59	26	1	0	0	22	0	0	0	0	0	0	0	0	0	0	.4	932.	932.	16.2		
CYI (C) MPS-20	0	23	54	52	1	0	3	11	0	23	55	57	0	23	55	57	5	58	28.5	727.	259.	16.2		
CYI (S) USB-3C	0	23	54	52	1	0	3	11	0	23	55	57	0	23	55	57	5	58	28.5	727.	259.	16.2		
TAN (C) FPS-16M	1	0	14	51	1	0	23	38	1	0	16	10	1	0	22	17	6	7	15.6	903.	528.	16.4		
CRO (C) FPQ-5	1	0	30	37	1	0	39	29	8	51	0	32	5	1	0	38	6	0	13.7	937.	591.	16.6		
CRO (S) USB-30	1	0	30	37	1	0	39	29	8	52	1	0	32	5	1	0	38	6	0	13.7	937.	591.	16.6	
HSK (S) USB-85	1	0	38	10	1	0	47	12	9	1	0	39	28	1	0	45	56	6	28	18.3	468.	16.7		
HTV (S) USB-30	1	0	47	22	1	0	53	37	6	14	1	0	49	42	1	0	50	29	0	46	5.3	990.	771.	16.7
MER (S) USB-30	1	0	50	16	1	0	54	37	4	21	0	0	0	0	0	0	0	0	2.4	910.	887.	16.8		
RED (S) USB-30	1	0	59	7	1	1	5	57	6	49	1	1	0	35	1	1	4	39	9.7	881.	514.	16.9		
CAL (C) FPS-16	1	1	8	32	1	1	13	50	5	18	0	0	0	0	0	0	0	0	4.8	877.	637.	16.9		
GDS (S) USB-35	1	1	9	9	1	1	14	46	5	37	1	1	11	17	1	1	12	59	6.2	876.	582.	16.9		
GYM (S) USB-30	1	1	8	37	1	1	16	11	7	33	1	1	9	50	1	1	15	6	72.7	876.	116.	17.0		
WHS (C) FPS-16M	1	1	10	6	1	1	17	23	7	17	1	1	11	10	1	1	16	15	26.6	877.	232.	17.0		
TEX (S) USB-30	1	1	11	45	1	1	19	0	7	15	1	1	12	53	1	1	17	51	26.4	888.	235.	17.0		
PAT (C) FPQ-5	1	1	15	43	1	1	22	42	6	58	1	1	16	55	1	1	21	29	16.7	909.	342.	17.0		
MIL (S) USB-30	1	1	15	41	1	1	22	42	7	1	1	16	51	1	1	21	30	4	17.9	907.	325.	17.0		

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO					
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR		MIN	SEC			
GBI (C) TPQ-18	1	1	16	26	1	1	22	59	1	1	17	45	1	1	21	38	3	53	11.3	911.	444.	17.0		
GBM (S) USB-30*	1	1	16	27	1	1	22	59	1	1	17	45	1	1	21	39	3	53	11.3	910.	444.	17.0		
BDA (C) FPS-16M	1	1	19	1	1	1	26	45	1	1	20	5	1	1	25	37	5	31	46.8	889.	159.	17.1		
BDA (S) USB-30*	1	1	19	1	1	1	26	45	1	1	20	5	1	1	25	37	5	31	46.8	889.	159.	17.1		
VAN (S) USB-30*	1	1	23	9	1	1	31	15	1	1	23	58	1	1	30	15	6	16	71.8	983.	136.	17.2		
CYI (C) MPS26	1	1	29	29	1	1	38	18	1	1	30	34	1	1	36	59	6	25	26.0	881.	322.	17.2		
PRE (C) MPS-25M	1	1	47	58	1	1	55	16	1	1	50	52	1	1	51	43	0	51	5.3	1328.	1025.	17.4		
TAN (C) FPS-16M	1	1	48	37	1	1	2	0	27	1	1	49	42	1	1	59	7	9	25	51.7	1178.	317.	17.4	
CRO (C) FPQ-6	1	2	5	43	1	2	16	46	1	2	7	11	1	2	15	26	8	14	20.9	1125.	604.	17.6		
CRO (S) USB-30*	1	2	5	43	1	2	16	46	1	2	7	11	1	2	15	26	8	14	20.9	1125.	604.	17.6		
HAK (S) USB-35*	1	2	13	30	1	2	23	16	1	2	15	3	1	2	21	56	6	53	15.0	1186.	662.	17.7		
HTV (S) USB-30*	1	2	34	52	1	2	31	37	9	42	1	2	33	16	1	2	30	34	7	17	29.3	987.	353.	17.8
HAW (C) FPS-16M	1	2	34	52	1	2	40	46	5	53	1	2	37	3	1	2	37	33	0	29	5.2	967.	715.	17.8
HAW (S) USB-30*	1	2	34	52	1	2	40	46	5	53	1	2	37	3	1	2	37	33	0	29	5.2	967.	715.	17.8
RED (C) FPS-16	1	2	43	43	1	2	52	52	7	9	1	2	35	42	1	2	49	43	4	42	16.6	628.	343.	17.9
CAL (C) FPS-16	1	2	44	32	1	2	51	43	1	2	45	41	1	2	50	35	4	53	13.1	787.	400.	18.0		
GDS (S) USB-85*	1	2	45	13	1	2	52	40	7	26	1	2	46	14	1	2	51	31	5	16	25.2	579.	248.	18.0
GVM (S) USB-30*	1	2	46	16	1	2	54	0	7	44	1	2	47	18	1	2	52	57	5	38	23.7	726.	260.	18.0
WHS (C) FPS-16M	1	2	48	25	1	2	55	30	7	4	1	2	49	40	1	2	54	17	4	36	12.2	850.	423.	18.0
TEX (S) USB-30*	1	2	52	8	1	2	59	37	7	29	1	2	53	21	1	2	58	25	3	3	15.5	870.	378.	18.1
MIL (S) USB-30*	1	2	52	11	1	2	59	37	7	25	1	2	53	25	1	2	58	23	4	58	14.5	871.	395.	18.1
PAT (C) FPQ-6	1	2	53	0	1	3	0	5	1	3	0	5	1	2	54	13	1	2	58	39	483.	18.1		
GBI (C) TPQ-18	1	2	53	0	1	3	0	5	1	3	0	5	1	2	54	14	1	2	58	39	483.	18.1		
GBM (S) USB-30*	1	2	55	14	1	3	3	28	8	13	1	2	56	7	1	3	2	26	6	19	74.2	951.	136.	18.1
BDA (C) FPS-16M	1	2	55	14	1	3	3	28	8	13	1	2	56	7	1	3	2	26	6	19	74.2	951.	136.	18.1
BDA (S) USB-30*	1	2	55	14	1	3	3	28	8	13	1	2	56	7	1	3	2	26	6	19	74.2	951.	136.	18.1
ANG (S) USB-30*	1	2	58	52	1	3	3	19	4	27	0	0	0	0	0	0	0	0	0	0	2.6	988.	384.	18.1
VAN (S) USB-30*	1	2	59	24	1	3	7	37	8	13	1	3	0	31	1	3	6	22	5	50	19.4	988.	384.	18.1
CYI (C) MPS26	1	3	7	26	1	3	12	26	5	0	0	0	0	0	0	0	0	0	0	0	2.7	1014.	957.	18.2
CYI (S) USB-30*	1	3	7	26	1	3	12	26	5	0	0	0	0	0	0	0	0	0	0	0	2.7	1014.	957.	18.2
ASC (C) TPQ-18	1	3	11	54	1	3	19	46	7	52	1	3	13	51	1	3	17	42	3	50	7.6	1171.	834.	18.3
ACN (S) USB-30*	1	3	11	54	1	3	19	46	7	53	1	3	13	50	1	3	17	44	3	53	7.7	1166.	831.	18.3
PRE (C) MPS-25M	1	3	21	55	1	3	33	38	11	42	1	3	23	11	1	3	32	23	9	12	38.2	1287.	392.	18.4
TAN (C) FPS-16M	1	3	25	46	1	3	36	53	11	6	1	3	27	11	1	3	35	28	8	16	20.1	1098.	630.	18.4

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO	
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC
CRO (C) FPO-0	1	3	42	40	1	3	53	58	1	3	52	49	1	39.1	1270.	356.	18.6			
CRO (S) USB-30*	1	3	42	40	1	3	53	58	1	3	52	49	1	39.2	1270.	356.	18.6			
HTV (S) USB-30*	1	3	59	14	1	4	7	9	1	4	5	52	8	12.3	997.	562.	18.7			
HAW (C) FPS-16M	1	4	10	3	1	4	18	2	1	4	16	59	5	25.5	735.	255.	18.8			
HAW (S) USB-30*	1	4	10	3	1	4	18	2	1	4	16	59	5	25.5	735.	255.	18.8			
RED (S) USB-30*	1	4	12	48	1	4	18	1	1	4	16	55	5	4.4	879.	680.	18.8			
CAL (C) FPS-16	1	4	19	35	1	4	27	21	1	4	26	13	5	63.6	916.	127.	18.9			
GDS (S) USB-d5*	1	4	20	30	1	4	28	9	1	4	27	1	5	52.6	925.	143.	18.9			
GYM (S) USB-30*	1	4	22	11	1	4	29	17	1	4	27	54	4	14.4	889.	392.	19.0			
WHS (C) FPS-16M	1	4	22	49	1	4	30	31	1	4	29	34	5	48.8	943.	156.	19.0			
TEX (S) USB-30*	1	4	25	8	1	4	32	33	1	4	31	21	5	17.0	967.	366.	19.0			
MIL (S) USB-30*	1	4	28	26	1	4	36	48	1	4	35	44	6	53.6	980.	169.	19.1			
PAT (C) FPO-0	1	4	28	28	1	4	36	50	1	4	35	46	6	50.2	972.	176.	19.1			
GBI (C) TPQ-18	1	4	29	0	1	4	37	33	1	4	36	18	6	31.4	833.	251.	19.1			
GBM (S) USB-30*	1	4	29	0	1	4	37	34	1	4	36	19	5	31.3	831.	252.	19.1			
BDA (C) FPS-16M	1	4	31	35	1	4	39	38	1	4	38	12	5	12.8	866.	502.	19.1			
BDQ (C) FPO-0	1	4	31	35	1	4	39	38	1	4	38	12	5	12.8	866.	502.	19.1			
BDA (S) USB-30*	1	4	31	35	1	4	39	38	1	4	38	12	5	12.8	866.	502.	19.1			
ANG (S) USB-30*	1	4	33	38	1	4	42	25	1	4	41	10	6	20.7	842.	406.	19.1			
VAN (S) USB-30*	1	4	37	18	1	4	41	45	1	4	40	0	0	2.0	990.	959.	19.1			
ASC (C) TPQ-18	1	4	46	40	1	4	57	53	1	4	56	38	8	64.3	1035.	257.	19.2			
ACN (S) USB-30*	1	4	46	40	1	4	57	54	1	4	56	39	8	65.0	1032.	256.	19.2			
PRE (C) MPS-25M	1	4	58	24	1	5	10	24	1	5	9	12	9	48.0	1338.	349.	19.4			
TAN (C) FPS-16M	1	5	4	2	1	5	13	26	1	5	11	31	5	9.5	1315.	927.	19.4			
CRO (C) FPO-0	1	5	19	37	1	5	30	5	1	5	28	57	8	29.2	1142.	407.	19.6			
CRO (S) USB-30*	1	5	19	37	1	5	30	5	1	5	28	57	8	29.2	1142.	408.	19.6			
GYM (S) USB-30*	1	5	33	44	1	5	43	57	1	5	42	44	3	8.1	953.	629.	19.7			
HAW (C) FPS-16M	1	5	47	33	1	5	53	51	1	5	52	11	2	56	741.	518.	19.8			
HAW (S) USB-30*	1	5	47	33	1	5	53	51	1	5	52	11	2	56	741.	517.	19.8			
CAL (C) FPS-16	1	5	55	59	1	6	4	1	1	6	2	49	5	34.5	806.	213.	19.9			
GDS (S) USB-d5*	1	5	56	44	1	6	4	41	1	6	3	40	5	37.8	945.	198.	20.0			
GYM (S) USB-30*	1	5	58	30	1	6	6	28	1	6	5	23	5	28.2	1017.	263.	20.0			
WHS (C) FPS-16M	1	5	58	57	1	6	7	20	1	6	6	11	6	40.9	850.	195.	20.0			
TEX (S) USB-30*	1	6	1	6	1	6	9	52	1	6	8	34	6	35.7	772.	230.	20.0			
MIL (S) USB-30*	1	6	4	44	1	6	13	8	1	6	11	48	5	17.6	994.	437.	20.0			
PAT (C) FPO-0	1	6	4	45	1	6	13	14	1	6	11	53	5	18.2	977.	426.	20.0			
GBI (C) TPQ-18	1	6	5	19	1	6	14	0	1	6	12	37	6	16.6	828.	454.	20.0			

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION			LOSS			DURATION			ACQUISITION			LOSS			DURATION			MAX ELEV RANGE			MIN RANGE			REV NO		
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MAX	ELEV	RANGE	MIN	RANGE	MIN	RANGE
GBM (S) USB-30*	1	6	5	19	1	6	14	1	8	41	1	6	6	33	1	6	12	38	6	4	16.5	827.	456.	20.0	20.0	20.0	20.0
BDA (C) FPS-16M	1	6	11	10	1	6	12	30	1	20	0	0	0	0	0	0	0	0	0	0	.1	1109.	1109.	20.0	20.0	20.0	20.0
BDQ (C) FPQ-6	1	6	11	10	1	6	12	30	1	20	0	0	0	0	0	0	0	0	0	0	.1	1109.	1109.	20.0	20.0	20.0	20.0
BDA (S) USB-30*	1	6	11	10	1	6	12	30	1	20	0	0	0	0	0	0	0	0	0	0	.1	1109.	1109.	20.0	20.0	20.0	20.0
ANG (S) USB-30*	1	6	9	48	1	6	19	13	9	24	1	6	10	57	1	6	17	53	6	55	22.2	1075.	434.	20.1	20.1	20.1	20.1
ASC (C) TPQ-18	1	6	24	10	1	6	33	52	9	42	1	6	25	46	1	6	32	8	6	22	11.7	1247.	813.	20.2	20.2	20.2	20.2
ACN (S) USB-30*	1	6	24	12	1	6	33	53	9	40	1	6	25	48	1	6	32	8	6	19	11.5	1252.	816.	20.2	20.2	20.2	20.2
PRE (C) MPS-25M	1	6	35	41	1	6	47	11	11	30	1	6	37	2	1	6	45	52	8	50	22.4	1239.	589.	20.4	20.4	20.4	20.4
TAN (C) FPS-16M	1	6	41	54	1	6	50	58	9	4	1	6	43	53	1	6	49	5	5	11	9.0	1291.	915.	20.4	20.4	20.4	20.4
CRD (C) FPQ-6	1	6	58	58	1	7	3	3	4	5	0	0	0	0	0	0	0	0	0	0	1.8	1070.	1065.	20.5	20.5	20.5	20.5
CRO (S) USB-30*	1	6	58	58	1	7	3	3	4	4	0	0	0	0	0	0	0	0	0	0	1.8	1070.	1065.	20.5	20.5	20.5	20.5
GWM (S) USB-30*	1	7	9	38	1	7	17	45	8	6	1	7	10	48	1	7	16	34	5	45	25.4	844.	275.	20.7	20.7	20.7	20.7
HAW (S) USB-30*	1	7	25	36	1	7	30	1	4	25	0	0	0	0	0	0	0	0	0	0	2.9	783.	746.	20.8	20.8	20.8	20.8
HAW (S) USB-30*	1	7	25	36	1	7	30	2	4	25	0	0	0	0	0	0	0	0	0	0	2.9	783.	746.	20.8	20.8	20.8	20.8
CAL (C) FPS-16	1	7	32	20	1	7	40	10	7	50	1	7	33	24	1	7	38	51	5	26	16.6	918.	414.	20.9	20.9	20.9	20.9
GDS (S) USB-85*	1	7	33	8	1	7	40	37	7	28	1	7	34	30	1	7	39	11	4	40	1028.	507.	20.9	20.9	20.9	20.9	
GYM (S) USB-30*	1	7	34	37	1	7	43	22	8	44	1	7	35	36	1	7	42	8	6	32	920.	262.	21.0	21.0	21.0	21.0	
MHS (C) FPS-16M	1	7	35	34	1	7	43	5	7	31	1	7	37	2	1	7	41	29	4	27	9.9	983.	588.	21.0	21.0	21.0	21.0
MIL (S) USB-30*	1	7	44	20	1	7	44	48	0	28	0	0	0	0	0	0	0	0	0	0	.1	1113.	1113.	21.0	21.0	21.0	21.0
PAT (C) FPQ-6	1	7	44	11	1	7	45	18	1	7	0	0	0	0	0	0	0	0	0	0	.3	1103.	1103.	21.0	21.0	21.0	21.0
TEX (S) USB-30*	1	7	37	45	1	7	45	46	8	1	0	0	0	0	0	0	0	0	0	0	11.0	902.	610.	21.0	21.0	21.0	21.0
GBI (C) TPQ-18	1	7	44	29	1	7	46	46	2	16	1	7	39	8	1	7	44	12	5	3	.4	1132.	1132.	21.0	21.0	21.0	21.0
GBM (S) USB-30*	1	7	44	35	1	7	46	46	2	11	0	0	0	0	0	0	0	0	0	0	.4	1132.	1132.	21.0	21.0	21.0	21.0
ASC (C) TPQ-18	1	8	6	21	1	8	6	35	0	14	0	0	0	0	0	0	0	0	0	0	.4	1132.	1132.	21.0	21.0	21.0	21.0
ACN (S) USB-30*	1	8	6	26	1	8	6	29	0	3	0	0	0	0	0	0	0	0	0	0	.0	1375.	1375.	21.2	21.2	21.2	21.2
PRE (C) MPS-25M	1	8	12	56	1	8	24	16	11	19	1	8	14	20	1	8	23	3	8	42	27.5	1085.	494.	21.4	21.4	21.4	21.4
TAN (C) FPS-16M	1	8	18	37	1	8	28	59	10	21	1	8	20	4	1	8	27	43	7	39	19.2	1123.	578.	21.4	21.4	21.4	21.4
GWM (S) USB-30*	1	8	49	27	1	8	51	28	2	0	0	0	0	0	0	0	0	0	0	0	1.0	843.	843.	21.6	21.6	21.6	21.6
HAW (S) USB-30*	1	9	1	51	1	9	8	11	6	20	1	9	3	42	1	9	6	19	2	36	6.9	821.	616.	21.8	21.8	21.8	21.8
HAW (S) USB-30*	1	9	1	51	1	9	8	11	6	20	1	9	3	42	1	9	6	19	2	36	6.9	821.	616.	21.8	21.8	21.8	21.8
RED (S) USB-30*	1	9	6	1	1	9	9	52	3	50	0	0	0	0	0	0	0	0	0	0	1.9	920.	893.	21.9	21.9	21.9	21.9
CAL (C) FPS-16	1	9	9	59	1	9	14	23	4	24	0	0	0	0	0	0	0	0	0	0	2.3	973.	930.	21.9	21.9	21.9	21.9
GDS (S) USB-85*	1	9	12	23	1	9	12	35	0	11	0	0	0	0	0	0	0	0	0	0	.1	1057.	1057.	21.9	21.9	21.9	21.9
GYM (S) USB-30*	1	9	12	8	1	9	17	57	5	48	0	0	0	0	0	0	0	0	0	0	.1	1057.	1057.	21.9	21.9	21.9	21.9
PRE (C) MPS-25M	1	9	49	48	1	10	1	7	11	19	1	9	51	2	1	10	0	0	0	0	4.1	1017.	877.	22.4	22.4	22.4	22.4
TAN (C) FPS-16M	1	9	55	13	1	10	5	50	10	37	1	10	4	33	1	10	4	41	8	8	56.1	1034.	248.	22.4	22.4	22.4	22.4
HAW (C) FPS-16M	1	10	37	26	1	10	46	15	8	48	1	10	38	33	1	10	45	3	6	29	27.7	760.	306.	22.8	22.8	22.8	22.8

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TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION			LOSS			DURATION			ACQUISITION			LOSS			DURATION			MAX ELEV			MIN RANGE			REV NO								
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	MIN
HAW (S) USB-30*	1	10	37	26	1	10	46	15	8	48	1	10	38	33	1	10	45	3	6	29	27.7	760.	306.	22.8									
RED (S) USB-30*	1	10	40	29	1	10	49	26	8	57	1	10	41	27	1	10	48	8	6	40	26.2	958.	339.	22.9									
PRE (C) MPS-25M	1	11	27	10	1	11	36	24	9	13	1	11	28	44	1	11	35	6	6	21	14.3	1051.	625.	23.3									
TAN (C) FPS-16M	1	11	33	43	1	11	39	51	6	7	0	0	0	0	0	0	0	0	0	0	4.6	1079.	898.	23.4									
HAW (C) FPS-16M	1	12	13	57	1	12	22	27	8	30	1	12	15	12	1	12	21	3	5	51	14.6	946.	540.	23.8									
HAW (S) USB-30*	1	12	13	57	1	12	22	27	8	30	1	12	15	12	1	12	21	3	5	50	14.6	946.	540.	23.8									
RED (S) USB-30*	1	12	16	44	1	12	25	58	9	13	1	12	17	56	1	12	24	29	6	33	17.4	940.	511.	23.8									
ASC (C) TPQ-18	1	12	57	38	1	13	4	47	7	7	1	13	0	25	1	12	4	46	0	20	5.1	1182.	983.	24.2									
ACN (S) USB-30*	1	12	57	39	1	13	4	47	7	7	1	13	0	26	1	13	0	42	0	16	5.0	1184.	981.	24.2									
GMM (S) USB-30*	1	13	41	25	1	13	45	25	3	59	0	0	0	0	0	0	0	0	0	0	1.8	929.	888.	24.7									
ASC (C) TPQ-18	1	14	33	0	1	14	43	1	10	1	1	14	34	21	1	14	41	59	7	38	40.7	974.	282.	25.2									
ACN (S) USB-30*	1	14	33	1	1	14	43	2	10	0	1	14	34	23	1	14	42	0	7	37	40.9	970.	280.	25.2									
GMM (S) USB-30*	1	15	15	38	1	15	24	53	9	15	1	15	16	43	1	15	23	41	6	57	29.9	1084.	319.	25.7									
HTV (S) USB-30*	1	15	23	52	1	15	34	4	10	12	1	15	25	1	1	15	32	40	7	39	24.9	1039.	448.	25.8									
MER (S) USB-30*	1	15	31	2	1	15	41	31	10	28	1	15	32	25	1	15	40	2	7	36	18.0	1177.	637.	25.8									
ASC (C) TPQ-18	1	16	10	38	1	16	18	12	7	34	1	16	12	18	1	16	16	44	4	25	9.7	836.	646.	26.2									
ACN (S) USB-30*	1	16	10	39	1	16	18	13	7	33	1	16	12	20	1	16	16	44	4	23	9.6	840.	648.	26.2									
GMM (S) USB-30*	1	16	52	11	1	17	1	10	8	59	1	16	53	27	1	16	59	41	6	13	15.0	1108.	578.	26.7									
HTV (S) USB-30*	1	17	0	5	1	17	10	51	10	45	1	17	1	16	1	17	9	31	8	15	23.2	1279.	514.	26.8									
MER (S) USB-30*	1	17	6	39	1	17	18	40	12	0	1	17	7	46	1	17	17	30	9	43	76.4	1347.	268.	26.8									
CYI (C) MPS-25	1	17	52	19	1	17	59	16	6	56	1	17	53	43	1	17	57	52	4	8	10.5	952.	493.	27.2									
CYI (S) USB-30*	1	17	52	19	1	17	59	16	6	56	1	17	53	43	1	17	57	52	4	8	10.5	952.	493.	27.2									
MAD (S) USB-85*	1	18	0	13	1	18	0	29	0	15	0	0	0	0	0	0	0	0	0	0	0.0	893.	893.	27.3									
HSK (S) USB-85*	1	18	37	35	1	18	45	23	7	47	1	18	40	4	1	18	42	49	2	45	5.7	1243.	1035.	27.7									
HTV (S) USB-30*	1	18	39	24	1	18	45	38	6	13	0	0	0	0	0	0	0	0	0	0	3.5	1248.	1159.	27.7									
MER (S) USB-30*	1	18	43	44	1	18	55	23	11	38	1	18	45	3	1	18	54	2	8	59	23.9	1233.	571.	27.8									
ANG (S) USB-30*	1	19	17	28	1	19	24	17	6	48	1	19	19	25	1	19	22	39	3	13	7.4	911.	677.	28.1									
VAN (S) USB-30*	1	19	25	5	1	19	28	1	2	55	0	0	0	0	0	0	0	0	0	0	1.5	860.	860.	28.1									
CYI (C) MPS-25	1	19	28	12	1	19	35	56	7	43	1	19	29	8	1	19	34	49	5	41	44.6	876.	160.	28.2									
CYI (S) USB-30*	1	19	28	12	1	19	35	56	7	43	1	19	29	8	1	19	34	49	5	41	44.6	876.	160.	28.2									
MAD (S) USB-85*	1	19	32	16	1	19	38	24	6	8	1	19	33	49	1	19	36	53	3	4	7.1	859.	558.	28.3									
CRO (C) FPQ-5	1	20	4	22	1	20	13	15	8	53	1	20	6	2	1	20	11	23	5	20	9.8	1226.	838.	28.6									
CRO (S) USB-30*	1	20	4	22	1	20	13	15	8	53	1	20	6	2	1	20	11	23	5	20	9.8	1227.	839.	28.6									
HSK (S) USB-85*	1	20	11	45	1	20	23	12	11	26	1	20	13	1	1	20	21	52	8	51	24.0	1247.	557.	28.7									
MER (S) USB-30*	1	20	21	10	1	20	32	21	11	10	1	20	22	37	1	20	31	3	8	25	20.9	1151.	616.	28.8									
GBI (C) TPQ-18	1	20	53	35	1	20	56	49	3	13	0	0	0	0	0	0	0	0	0	0	1.3	925.	918.	29.1									
GBM (S) USB-30*	1	20	53	35	1	20	56	49	3	14	0	0	0	0	0	0	0	0	0	0	1.3	924.	917.	29.1									

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO			
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC				
BDA (C) FPS-16M	2	0	7	7	2	0	14	47	2	0	8	18	2	0	13	53	38.2	837.	178.	31.1
BDQ (C) FPQ-9	2	0	7	7	2	0	14	47	2	0	8	18	2	0	13	53	38.2	837.	178.	31.1
BDA (S) USB-3C*	2	0	7	7	2	0	14	47	2	0	8	18	2	0	13	53	38.2	837.	178.	31.1
VAN (S) USB-30*	2	0	11	25	2	0	19	17	2	0	12	32	2	0	18	12	26.6	776.	243.	31.2
MAD (S) USB-35*	2	0	22	22	2	0	22	45	2	0	0	0	2	0	0	0	.1	.1	973.	31.2
CYI (C) MPS-26	2	0	17	54	2	0	26	19	2	0	18	49	2	0	25	14	44.4	818.	193.	31.2
CYI (S) USB-30*	2	0	17	54	2	0	26	19	2	0	18	49	2	0	25	14	44.4	818.	193.	31.2
TAN (C) FPS-16M	2	0	37	14	2	0	48	4	2	0	38	30	2	0	46	41	27.8	1031.	454.	31.4
GRO (C) FPQ-9	2	0	53	20	2	1	4	33	2	0	54	46	2	1	3	13	20.1	1338.	636.	31.6
GRO (S) USB-30*	2	0	53	20	2	1	4	33	2	0	54	46	2	1	3	13	20.2	1337.	635.	31.6
HSK (S) USB-35*	2	1	1	5	2	1	12	13	2	1	2	30	2	1	11	2	27.5	1107.	486.	31.7
HTV (S) USB-30*	2	1	10	18	2	1	19	19	2	1	11	56	2	1	17	49	11.9	1262.	713.	31.8
MER (S) USB-30*	2	1	13	25	2	1	19	42	2	0	0	0	2	0	0	0	4.2	1128.	974.	31.8
RED (S) USB-30*	2	1	22	53	2	1	31	9	2	1	24	16	2	1	30	1	16.6	833.	441.	31.9
CAL (C) FPS-16	2	1	32	36	2	1	38	47	2	1	34	13	2	1	37	16	7.7	887.	557.	31.9
GDS (S) USB-35*	2	1	33	18	2	1	39	40	2	1	34	43	3	0	38	13	8.8	888.	518.	31.9
GYM (C) FPS-30*	2	1	33	7	2	1	40	52	2	1	34	21	5	27	48	74.7	885.	120.	32.0	
WHS (C) FPS-16M	2	1	34	20	2	1	42	5	2	1	35	37	5	23	0	36.7	880.	185.	32.0	
TEX (S) USB-30*	2	1	36	24	2	1	43	37	2	1	37	35	4	52	21.7	903.	280.	32.0		
PAT (C) FPQ-9	2	1	40	26	2	1	47	22	2	1	41	40	4	27	15.3	908.	364.	32.0		
MIL (S) USB-30*	2	1	41	11	2	1	47	41	2	1	42	32	4	32	16.3	908.	347.	32.0		
GBI (C) TPQ-18	2	1	41	11	2	1	47	41	2	1	42	32	3	45	10.5	911.	462.	32.0		
GBM (S) USB-30*	2	1	43	40	2	1	51	22	2	1	44	44	5	39	52.8	889.	147.	32.1		
BDQ (C) FPS-16M	2	1	43	40	2	1	51	22	2	1	44	44	5	39	52.9	889.	147.	32.1		
BDQ (C) FPQ-9	2	1	43	40	2	1	51	22	2	1	44	44	5	39	52.9	889.	147.	32.1		
BDA (S) USB-30*	2	1	47	48	2	1	55	58	2	1	48	51	5	58	40.1	912.	193.	32.2		
CYI (C) MPS-26	2	1	54	18	2	2	2	34	2	1	55	31	5	37	14.5	849.	502.	32.2		
CYI (S) USB-30*	2	1	54	18	2	2	2	34	2	1	55	31	5	37	14.5	849.	502.	32.2		
PRE (C) MPS-25M	2	2	11	36	2	2	20	34	2	2	13	20	5	22	18	42	1114.	858.	32.4	
TAN (C) FPS-16M	2	2	13	16	2	2	25	0	2	2	14	23	9	25	60.9	966.	285.	32.4		
GRO (C) FPQ-9	2	2	30	24	2	2	41	37	2	2	31	47	8	34	21.9	1261.	575.	32.6		
CRO (S) USB-30*	2	2	30	25	2	2	41	37	2	2	31	47	8	34	21.9	1261.	574.	32.6		
HSK (S) USB-85*	2	2	38	25	2	2	47	17	2	2	40	13	5	27	10.4	1223.	796.	32.7		
HTV (S) USB-30*	2	2	46	24	2	2	56	23	2	2	47	36	7	37	44.5	1094.	261.	32.7		
HAW (C) FPS-16M	2	2	58	46	2	2	3	5	2	2	3	0	4	18	10.6	963.	514.	32.8		
HAW (S) USB-30*	2	2	58	46	2	2	3	5	2	2	3	0	4	18	10.6	963.	514.	32.8		

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	
RED (S) USB-30*	2	2	59	20	2	3	7	24	2	3	0	30	2	2	28.7	257.	32.9
CAL (C) FPS-16	2	3	8	7	2	3	15	30	2	3	9	17	2	3	17.6	328.	33.0
GDS (S) USB-85*	2	3	9	3	2	3	16	22	2	3	10	1	2	21.7	278.	33.0	
GYM (S) USB-30*	2	3	9	53	2	3	17	11	2	3	11	8	5	0	18.3	318.	33.0
WHS (C) FPS-16M	2	3	10	59	2	3	18	37	2	3	11	50	5	39	49.6	146.	33.0
TEX (S) USB-30*	2	3	13	12	2	3	20	14	2	3	14	22	4	28	13.3	405.	33.0
MIL (S) USB-30*	2	3	16	48	2	3	24	25	2	3	17	48	5	16	18.5	341.	33.1
PAT (C) FPQ-6	2	3	16	52	2	3	24	25	2	3	17	53	5	11	17.8	351.	33.1
GBI (C) TPQ-18	2	3	17	31	2	3	24	52	2	3	18	45	4	50	15.1	393.	33.1
GBM (S) USB-30*	2	3	17	31	2	3	24	53	2	3	18	46	4	50	15.1	393.	33.1
BDA (C) FPS-16M	2	3	19	46	2	3	28	3	2	3	20	55	5	56	30.9	238.	33.1
BDQ (C) FPQ-6	2	3	19	46	2	3	28	3	2	3	20	55	5	56	30.9	239.	33.1
BDA (S) USB-30*	2	3	19	46	2	3	28	3	2	3	20	55	5	56	30.9	239.	33.1
ANG (S) USB-30*	2	3	22	56	2	3	28	46	2	3	20	0	0	0	4.7	730.	33.1
VAN (S) USB-30*	2	3	24	12	2	3	31	50	2	3	25	34	4	45	11.0	543.	33.1
ASC (C) TPQ-18	2	3	35	45	2	3	45	0	2	3	37	9	2	3	13.3	662.	33.2
ACN (S) USB-30*	2	3	35	45	2	3	45	1	2	3	37	9	6	20	13.3	930.	33.2
PRE (C) MPS-25M	2	3	46	22	2	3	58	17	2	3	47	31	6	21	13.4	925.	33.2
TAN (C) FPS-16M	2	3	50	46	2	4	1	24	2	3	52	14	9	27	44.4	1165.	33.4
CRO (C) FPQ-6	2	4	7	15	2	4	18	37	2	4	8	29	7	39	14.8	1320.	33.4
CRO (S) USB-30*	2	4	7	15	2	4	18	37	2	4	8	29	8	58	63.2	972.	33.6
HTV (S) USB-30*	2	4	24	32	2	4	30	59	2	4	8	29	8	59	63.4	972.	33.6
HAM (C) FPS-16M	2	4	34	47	2	4	42	32	2	4	35	47	1	41	5.5	1032.	33.7
HAM (S) USB-30*	2	4	34	47	2	4	42	32	2	4	35	47	5	37	31.1	898.	33.8
RED (S) USB-30*	2	4	38	23	2	4	41	52	2	4	35	47	5	37	31.1	898.	33.8
CAL (C) FPS-16	2	4	44	14	2	4	52	1	2	4	45	15	0	0	1.5	839.	33.8
GDS (S) USB-85*	2	4	45	7	2	4	52	47	2	4	45	15	5	39	23.3	725.	34.0
GYM (S) USB-30*	2	4	46	46	2	4	54	1	2	4	47	53	5	43	46.9	549.	34.0
WHS (C) FPS-16M	2	4	47	18	2	4	55	7	2	4	48	16	4	49	13.4	836.	34.0
TEX (S) USB-30*	2	4	49	34	2	4	57	20	2	4	48	16	5	54	61.1	942.	34.0
MIL (S) USB-30*	2	4	52	58	2	5	1	22	2	4	50	43	5	29	21.9	933.	34.0
PAT (C) FPQ-6	2	4	53	1	2	5	1	25	2	4	53	48	6	30	69.3	985.	34.1
GBI (C) TPQ-18	2	4	53	32	2	5	2	11	2	4	54	51	6	31	76.2	974.	34.1
GBM (S) USB-30*	2	4	53	32	2	5	2	12	2	4	54	35	6	22	45.3	823.	34.1
BDA (C) FPS-16M	2	4	56	30	2	5	3	33	2	4	54	35	6	22	44.9	821.	34.1
BDQ (C) FPQ-6	2	4	56	30	2	5	3	33	2	4	58	8	3	39	7.8	994.	34.1
BDA (S) USB-30*	2	4	56	30	2	5	3	33	2	4	58	8	3	39	7.8	994.	34.1

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
 (a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO	
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC
ANG (S) USB-30*	2	4	58	0	2	4	59	8	2	5	6	4	6	55	35.6	1117.	270.	34.1		
ASC (C) TPQ-18	2	5	11	18	2	5	12	24	2	5	21	2	8	38	38.9	1073.	355.	34.2		
ACN (S) USB-30*	2	5	11	19	2	5	12	25	2	5	21	2	8	37	38.7	1070.	356.	34.2		
PRE (C) MPS-25M	2	5	23	7	2	5	24	18	2	5	33	42	9	23	36.3	996.	422.	34.4		
TAN (C) FPS-16M	2	5	29	3	2	5	31	1	2	5	36	7	5	6	8.5	1376.	961.	34.4		
CRO (C) FPQ-9	2	5	44	26	2	5	45	51	2	5	52	53	7	1	17.9	1180.	567.	34.6		
CRO (S) USB-30*	2	5	44	26	2	5	45	51	2	5	52	53	7	1	17.8	1180.	568.	34.6		
GWM (S) USB-30*	2	5	57	38	2	5	59	2	2	6	4	49	5	47	16.6	800.	431.	34.7		
HAW (S) USB-30*	2	6	12	35	2	6	14	46	2	6	15	34	0	48	5.6	819.	609.	34.8		
CAL (C) FPS-16	2	6	20	35	2	6	18	11	2	6	15	34	0	48	5.6	819.	609.	34.8		
GDS (S) USB-85*	2	6	20	35	2	6	28	24	2	6	27	13	5	33	39.2	898.	190.	34.9		
GYM (S) USB-30*	2	6	23	0	2	6	28	56	2	6	27	57	5	29	26.5	897.	263.	34.9		
WHS (S) FPS-16M	2	6	23	38	2	6	30	53	2	6	29	56	5	51	47.5	914.	174.	35.0		
TEX (S) USB-30*	2	6	25	47	2	6	31	24	2	6	30	23	5	40	26.8	916.	270.	35.0		
MIL (S) USB-30*	2	6	29	50	2	6	36	16	2	6	34	27	2	45	7.8	770.	592.	35.0		
PAT (C) FPQ-9	2	6	30	29	2	6	37	5	2	6	34	39	3	1	8.1	770.	591.	35.0		
GBI (C) TPQ-18	2	6	30	29	2	6	37	5	2	6	35	32	3	25	7.7	925.	597.	35.0		
ANG (S) USB-30*	2	6	35	23	2	6	41	44	2	6	35	32	3	24	7.6	924.	598.	35.0		
ASC (C) TPQ-18	2	6	51	56	2	6	53	39	2	6	39	52	2	42	7.3	818.	605.	35.1		
ACN (S) USB-30*	2	7	1	13	2	7	8	13	2	7	6	46	4	26	11.6	730.	486.	35.4		
PRE (C) MPS-25M	2	7	7	13	2	7	11	38	2	7	6	46	0	0	2.7	870.	804.	35.4		
TAN (C) FPS-16M	2	7	31	53	2	7	39	36	2	7	38	24	5	14	15.1	833.	410.	35.7		
GWM (S) USB-30*	2	7	47	10	2	7	52	44	2	7	38	24	0	0	4.1	741.	741.	35.8		
HAW (S) USB-16	2	7	54	34	2	7	52	44	2	7	38	24	0	0	4.1	741.	741.	35.8		
CAL (C) FPS-16	2	7	55	36	2	7	57	44	2	7	38	24	0	0	4.1	741.	741.	35.8		
GDS (S) USB-35*	2	7	57	1	2	8	1	46	2	8	0	4	4	3	9.0	886.	554.	35.9		
GYM (S) USB-30*	2	7	57	1	2	8	4	34	2	7	59	44	1	59	6.7	820.	630.	35.9		
WHS (C) FPS-16M	2	7	58	24	2	8	3	44	2	8	3	20	5	11	16.8	635.	381.	35.9		
TEX (S) USB-30*	2	8	0	49	2	8	6	6	2	8	0	0	0	0	4.6	869.	714.	35.9		
PRE (C) MPS-25M	2	8	35	12	2	8	42	54	2	8	41	47	5	24	18.7	606.	354.	36.0		
TAN (C) FPS-16M	2	8	40	17	2	8	47	48	2	8	46	30	4	57	12.4	827.	464.	36.4		
GWM (S) USB-30*	2	9	9	38	2	9	11	13	2	9	0	0	0	0	.4	932.	932.	36.6		
HAW (C) FPS-16M	2	9	21	12	2	9	28	9	2	9	26	35	3	56	9.9	747.	529.	36.8		
HAW (S) USB-30*	2	9	21	12	2	9	22	39	2	9	26	35	3	56	9.9	747.	529.	36.8		

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO	
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR		MIN
RED (S) USB-30*	2	9	25	7	2	9	30	2	0	0	0	0	0	0	0	0	0	0	0	0
PRE (C) MPS-25M	2	10	9	9	2	10	17	18	2	10	16	21	6	11	882.	3.4	772.	36.9	37.4	36.9
TAN (C) FPS-16M	2	10	14	7	2	10	22	6	2	10	15	14	5	38	820.	49.5	167.	37.4	37.4	
HAW (C) FPS-16M	2	10	54	54	2	11	2	58	2	10	55	49	6	15	784.	20.3	329.	37.8	37.8	
HAW (S) USB-30*	2	10	54	54	2	11	2	58	2	11	2	4	6	15	946.	70.1	136.	37.8	37.8	
RED (S) USB-30*	2	10	57	50	2	11	6	1	2	10	59	2	5	49	734.	22.4	308.	37.9	37.9	
PRE (C) MPS-25M	2	11	44	20	2	11	49	38	0	0	0	0	0	0	4.5	857.	713.	38.3	38.3	
HAW (C) FPS-16M	2	12	29	43	2	12	35	49	2	12	31	56	1	47	807.	6.6	629.	38.8	38.8	
HAW (S) USB-30*	2	12	29	44	2	12	35	49	6	5	2	12	31	47	807.	6.6	629.	38.8	38.8	
RED (S) USB-30*	2	12	32	39	2	12	38	58	6	18	2	12	37	2	51	941.	6.5	632.	38.8	38.8
ASC (C) TPQ-18	2	13	12	18	2	13	12	19	3	36	0	0	0	0	880.	1.6	858.	39.2	39.2	
ACN (S) USB-30*	2	13	12	19	2	13	15	56	0	0	0	0	0	0	880.	1.6	858.	39.2	39.2	
GWM (S) USB-30*	2	13	53	33	2	13	58	1	0	0	0	0	0	0	830.	2.6	808.	39.7	39.7	
ASC (C) TPQ-18	2	14	44	16	2	14	52	27	0	0	0	0	0	0	812.	33.4	223.	40.2	40.2	
ACN (S) USB-30*	2	14	44	18	2	14	52	28	8	10	2	14	51	6	816.	34.0	220.	40.2	40.2	
GWM (S) USB-30*	2	15	26	1	2	15	34	11	2	15	27	8	5	48	761.	24.9	282.	40.7	40.7	
HTV (S) USB-30*	2	15	34	42	2	15	42	24	7	42	2	15	41	8	894.	18.7	349.	40.7	40.7	
MER (S) USB-30*	2	15	42	6	2	15	48	53	6	46	2	15	47	26	797.	9.1	547.	40.8	40.8	
ASC (C) TPQ-18	2	16	19	31	2	16	25	3	5	31	0	0	0	0	931.	4.6	710.	41.2	41.2	
ACN (S) USB-30*	2	16	19	33	2	16	25	3	5	29	0	0	0	0	929.	4.5	711.	41.2	41.2	
GWM (S) USB-30*	2	17	0	55	2	17	7	2	6	7	2	17	2	44	940.	5.7	661.	41.7	41.7	
HTV (S) USB-30*	2	17	9	0	2	17	16	3	7	3	2	17	5	13	752.	10.9	498.	41.7	41.7	
MER (S) USB-30*	2	17	15	15	2	17	23	28	8	12	2	17	14	35	853.	46.4	175.	41.8	41.8	
CYI (C) MPS26	2	17	57	26	2	18	4	38	7	12	2	17	22	29	670.	12.4	466.	42.2	42.2	
CYI (S) USB-30*	2	17	57	26	2	18	4	38	7	11	2	17	58	48	670.	12.4	466.	42.2	42.2	
MAD (S) USB-85*	2	18	3	23	2	18	6	6	2	43	0	0	0	0	877.	1.3	877.	42.3	42.3	
MER (S) USB-30*	2	18	49	58	2	18	57	19	7	21	2	18	56	1	892.	11.8	482.	42.8	42.8	
ANG (S) USB-30*	2	19	20	49	2	19	26	51	6	2	2	19	25	1	919.	5.7	665.	43.1	43.1	
VAN (S) USB-30*	2	19	27	52	2	19	31	8	3	15	0	0	0	0	932.	1.5	862.	43.2	43.2	
CYI (C) MPS26	2	19	30	50	2	19	38	57	8	6	2	19	38	2	929.	63.1	145.	43.2	43.2	
CYI (S) USB-30*	2	19	30	50	2	19	38	57	8	6	2	19	38	2	929.	63.1	145.	43.2	43.2	
MAD (S) USB-85*	2	19	34	48	2	19	41	34	6	46	2	19	40	1	924.	8.5	573.	43.3	43.3	
CRO (C) FPQ-5	2	20	8	47	2	20	13	9	0	0	0	0	0	0	921.	2.7	794.	43.6	43.6	
CRO (S) USB-30*	2	20	8	47	2	20	13	9	0	0	0	0	0	0	921.	2.7	794.	43.6	43.6	
HSK (S) USB-85*	2	20	15	42	2	20	22	50	7	7	2	20	21	31	722.	11.7	481.	43.7	43.7	
MER (S) USB-30*	2	20	24	45	2	20	31	43	6	58	2	20	30	12	918.	9.2	551.	43.8	43.8	
GBI (C) TPQ-18	2	20	54	33	2	20	56	57	0	0	0	0	0	0	912.	.6	912.	44.0	44.0	

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO					
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC
GBM (S) USB-3C*	2	20	54	33	2	20	56	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BDA (C) FPS-16M	2	20	56	52	2	21	1	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BDQ (C) FPQ-9	2	20	56	52	2	21	1	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BDA (S) USB-30*	2	20	56	52	2	21	1	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANG (S) USB-30*	2	20	53	34	2	21	1	48	2	20	54	45	2	21	0	44	5	58	237.	44.1	0	0	0	0
VAN (S) USB-30*	2	20	59	6	2	21	6	50	2	21	0	12	2	21	5	44	5	32	329.	44.2	0	0	0	0
CYI (C) MPS26	2	21	5	15	2	21	12	59	2	21	6	26	2	21	11	53	5	27	354.	44.3	0	0	0	0
CYI (S) USB-30*	2	21	5	15	2	21	12	59	2	21	6	26	2	21	11	53	5	27	354.	44.3	0	0	0	0
MAD (S) USB-35*	2	21	8	3	2	21	15	24	2	21	9	24	2	21	14	7	4	43	481.	44.3	0	0	0	0
CRO (C) FPQ-9	2	21	40	39	2	21	48	44	8	5	2	21	41	36	2	21	47	42	196.	44.6	0	0	0	0
CRO (S) USB-3C*	2	21	40	39	2	21	48	44	8	4	2	21	41	36	2	21	47	42	196.	44.6	0	0	0	0
HSK (S) USB-35*	2	21	49	3	2	21	57	1	2	21	50	1	2	21	56	4	6	216.	44.7	0	0	0	0	
MER (S) USB-30*	2	21	58	45	2	22	6	38	2	21	59	48	2	22	5	28	5	40	309.	44.8	0	0	0	0
TEX (S) USB-30*	2	22	23	52	2	22	27	27	3	35	0	0	0	0	0	0	0	0	848.	45.0	0	0	0	0
MIL (S) USB-30*	2	22	25	19	2	22	32	43	7	23	2	22	26	36	2	22	31	28	422.	45.1	0	0	0	0
PAT (C) FPQ-9	2	22	25	16	2	22	32	44	7	27	2	22	26	31	2	22	31	31	405.	45.1	0	0	0	0
GBI (C) TPQ-18	2	22	25	19	2	22	33	14	7	55	2	22	26	27	2	22	32	13	282.	45.1	0	0	0	0
GBM (S) USB-30*	2	22	25	19	2	22	33	15	7	55	2	22	26	27	2	22	32	13	282.	45.1	0	0	0	0
ANG (S) USB-3C*	2	22	29	7	2	22	34	52	5	44	0	0	0	0	0	0	0	0	718.	45.1	0	0	0	0
BDA (C) FPS-16M	2	22	28	49	2	22	36	41	7	51	2	22	29	50	2	22	35	33	299.	45.1	0	0	0	0
BDQ (C) FPQ-9	2	22	28	49	2	22	36	41	7	51	2	22	29	50	2	22	35	33	299.	45.1	0	0	0	0
BDA (S) USB-30*	2	22	28	49	2	22	36	40	7	51	2	22	29	50	2	22	35	33	299.	45.1	0	0	0	0
VAN (S) USB-30*	2	22	32	48	2	22	40	57	8	8	2	22	33	43	2	22	40	2	134.	45.1	0	0	0	0
CYI (C) MPS26	2	22	39	34	2	22	47	28	7	53	2	22	40	50	2	22	46	21	351.	45.2	0	0	0	0
CYI (S) USB-30*	2	22	39	34	2	22	47	28	7	53	2	22	40	50	2	22	46	21	351.	45.2	0	0	0	0
MAD (S) USB-35*	2	22	42	3	2	22	48	30	6	26	2	22	43	53	2	22	46	47	598.	45.2	0	0	0	0
CRO (C) FPQ-9	2	23	14	59	2	23	22	39	7	40	2	23	16	4	2	23	21	27	358.	45.6	0	0	0	0
CRO (S) USB-3C*	2	23	14	59	2	23	22	39	7	40	2	23	16	4	2	23	21	27	358.	45.6	0	0	0	0
HSK (S) USB-35*	2	23	22	57	2	23	30	56	7	58	2	23	23	53	2	23	29	59	199.	45.7	0	0	0	0
MER (S) USB-3C*	2	23	32	46	2	23	40	18	7	31	2	23	33	46	2	23	39	4	263.	45.8	0	0	0	0
GYM (S) USB-3C*	2	23	53	20	2	23	59	50	6	29	2	23	54	56	2	23	58	4	588.	46.0	0	0	0	0
WHS (C) FPS-16M	2	23	55	16	3	0	0	47	5	30	0	0	0	0	0	0	0	0	728.	46.0	0	0	0	0
TEX (S) USB-30*	2	23	55	14	3	0	3	14	7	59	2	23	56	19	3	0	2	14	252.	46.0	0	0	0	0
MIL (S) USB-30*	2	23	58	51	3	0	6	57	8	5	2	23	59	46	3	0	6	2	150.	46.0	0	0	0	0
PAT (C) FPQ-9	2	23	58	52	3	0	6	57	8	5	2	23	59	46	3	0	6	2	160.	46.0	0	0	0	0
GBI (C) TPQ-18	2	23	59	17	3	0	7	19	8	1	3	0	0	24	3	0	6	17	268.	46.1	0	0	0	0
GBM (S) USB-30*	2	23	59	17	3	0	7	19	8	1	3	0	0	24	3	0	6	18	269.	46.1	0	0	0	0

-----0 DEGREE ELEVATION ANGLE-----

-----5 DEGREE ELEVATION ANGLE-----

-----RANGE AND ELEVATION---

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO	
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	RANGE		
BDA (C) FPS-16M	3	0	2	32	3	0	10	46	3	0	9	47	6	17	58.7	872.	152.	46.1
BDO (C) FPQ-6	3	0	2	32	3	0	10	46	3	0	9	47	6	17	58.7	872.	152.	46.1
BDA (S) USB-30*	3	0	2	32	3	0	10	46	3	0	9	47	6	17	58.6	872.	152.	46.1
VAN (S) USB-30*	3	0	6	57	3	0	15	3	3	0	14	9	6	17	58.2	955.	152.	46.2
CYI (C) MPS26	3	0	13	33	3	0	21	51	3	0	20	47	6	3	34.2	768.	222.	46.2
CYI (S) USB-30*	3	0	13	33	3	0	21	51	3	0	20	47	6	3	34.2	768.	222.	46.2
TAN (C) FPS-16M	3	0	34	4	3	0	41	18	3	0	35	26	4	35	11.6	884.	477.	46.4
CRO (C) FPQ-6	3	0	49	49	3	0	56	42	3	0	55	13	3	47	9.5	760.	543.	46.6
CRO (S) USB-30*	3	0	49	49	3	0	56	43	3	0	55	14	3	48	9.5	760.	543.	46.6
HSK (S) USB-85*	3	0	57	3	3	1	4	26	3	1	3	7	4	51	14.4	671.	423.	46.7
HTV (S) USB-30*	3	1	5	43	3	1	11	14	3	0	0	0	0	0	4.7	905.	706.	46.8
MER (S) USB-30*	3	1	9	40	3	1	11	19	3	1	39	0	0	0	5	915.	915.	46.8
RED (S) USB-30*	3	1	16	49	3	1	24	5	3	1	22	42	4	38	12.5	919.	460.	46.9
CAL (C) FPS-16	3	1	25	52	3	1	32	10	3	1	30	12	2	21	7.3	775.	610.	46.9
GDS (S) USB-85*	3	1	26	33	3	1	33	5	3	1	31	29	3	16	7.3	932.	608.	47.0
GYM (S) USB-30*	3	1	26	13	3	1	34	31	3	1	33	24	6	9	40.5	802.	195.	47.0
WHS (C) FPS-16M	3	1	27	36	3	1	35	42	3	1	34	37	5	47	24.7	808.	286.	47.0
TEX (S) USB-30*	3	1	29	15	3	1	37	17	3	1	36	17	5	56	28.3	893.	259.	47.0
MIL (S) USB-30*	3	1	33	13	3	1	41	2	3	1	39	58	5	36	21.1	943.	326.	47.1
PAT (C) FPQ-6	3	1	33	15	3	1	41	1	3	1	39	57	5	31	19.8	945.	342.	47.1
GBI (C) TPQ-18	3	1	33	56	3	1	41	24	3	1	40	8	4	50	12.5	874.	467.	47.1
GBM (S) USB-30*	3	1	33	57	3	1	41	25	3	1	40	8	4	50	12.4	873.	468.	47.1
BDA (C) FPS-16M	3	1	36	39	3	1	44	51	3	1	43	53	6	18	63.4	896.	145.	47.1
BDO (C) FPQ-6	3	1	36	39	3	1	44	51	3	1	43	53	6	18	63.4	896.	145.	47.1
BDA (S) USB-30*	3	1	36	39	3	1	44	51	3	1	43	53	6	18	63.3	896.	145.	47.1
VAN (S) USB-30*	3	1	41	0	3	1	49	0	3	1	48	5	6	7	39.5	942.	199.	47.2
CYI (C) MPS26	3	1	48	16	3	1	54	41	3	1	53	4	3	0	7.5	836.	600.	47.2
CYI (S) USB-30*	3	1	48	16	3	1	54	41	3	1	53	4	3	0	7.5	836.	600.	47.2
PRE (C) MPS-25M	3	2	5	44	3	2	11	25	3	2	9	6	0	25	5.3	875.	677.	47.4
TAN (C) FPS-16M	3	2	7	38	3	2	15	36	3	2	14	30	5	37	21.7	825.	312.	47.4
CRO (C) FPQ-6	3	2	24	4	3	2	31	33	3	2	30	17	4	53	12.2	843.	471.	47.6
CRO (S) USB-30*	3	2	24	4	3	2	31	34	3	2	30	17	4	53	12.3	842.	470.	47.6
HSK (S) USB-85*	3	2	32	47	3	2	35	28	0	0	0	0	0	0	8	930.	901.	47.6
HTV (S) USB-30*	3	2	38	28	3	2	46	37	3	2	45	34	6	7	46.1	849.	174.	47.7
HAW (C) FPS-16M	3	2	49	27	3	2	56	56	3	2	55	48	5	4	16.2	653.	388.	47.8
HAW (S) USB-30*	3	2	49	27	3	2	56	56	3	2	55	48	5	4	16.2	653.	388.	47.8
RED (S) USB-30*	3	2	50	28	3	2	58	18	3	2	57	0	5	26	18.6	853.	47.8	47.8

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO		
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN
CAL (C) FPS-16	3	2	58	43	3	3	6	42	3	3	5	38	3	3	5	56	29.4	904.	251.	47.9	47.9
GDS (S) USB-35*	3	2	59	28	3	3	7	31	3	3	0	3d	3	3	6	28	25.9	847.	276.	48.0	48.0
GYM (S) USB-30*	3	3	0	36	3	3	8	30	3	3	1	41	3	3	7	17	20.5	887.	333.	48.0	48.0
WHS (C) FPS-16M	3	3	1	29	3	3	9	47	3	3	2	37	3	3	8	44	36.6	788.	211.	48.0	48.0
TEX (S) USB-30*	3	3	3	45	3	3	11	28	3	3	5	4	3	3	10	17	15.3	861.	411.	48.0	48.0
MIL (S) USB-30*	3	3	7	25	3	3	15	29	3	3	8	36	3	3	14	26	25.1	851.	284.	48.1	48.1
PAT (C) FPQ-9	3	3	7	28	3	3	15	31	3	3	8	40	3	3	14	27	23.4	847.	300.	48.1	48.1
GBI (C) TPQ-18	3	3	8	11	3	3	16	4	3	3	9	22	3	3	14	49	16.6	810.	387.	48.1	48.1
GBM (S) USB-30*	3	3	8	12	3	3	16	4	3	3	9	22	3	3	14	49	16.7	811.	386.	48.1	48.1
BDQ (C) FPS-16M	3	3	10	45	3	3	18	42	3	3	11	45	3	3	17	37	27.6	916.	263.	48.1	48.1
BDQ (C) FPQ-9	3	3	10	45	3	3	18	42	3	3	11	45	3	3	17	37	27.6	916.	263.	48.1	48.1
BDA (S) USB-30*	3	3	10	45	3	3	18	42	3	3	11	45	3	3	17	37	27.6	916.	263.	48.1	48.1
ANG (S) USB-30*	3	3	13	35	3	3	19	56	3	3	15	35	3	3	17	57	27.6	915.	263.	48.1	48.1
VAN (S) USB-30*	3	3	15	40	3	3	21	45	3	3	17	54	3	3	19	39	7.2	795.	613.	48.1	48.1
ASC (C) TPQ-18	3	3	27	13	3	3	34	26	3	3	28	32	3	3	33	4	12.8	673.	451.	48.2	48.2
ACN (S) USB-30*	3	3	27	14	3	3	34	27	3	3	28	32	3	3	33	6	12.9	669.	447.	48.2	48.2
PRE (C) MPS-25M	3	3	38	12	3	3	46	26	3	3	39	14	3	3	45	17	36.7	792.	207.	48.4	48.4
TAN (C) FPS-16M	3	3	43	24	3	3	48	43	3	3	40	0	3	3	0	0	3.8	759.	747.	48.4	48.4
CRO (C) FPQ-9	3	3	57	53	3	3	6	11	3	3	59	2	3	3	4	57	29.1	732.	250.	48.6	48.6
CRO (S) USB-30*	3	3	57	53	3	3	6	11	3	3	59	2	3	3	4	58	29.1	733.	250.	48.6	48.6
HTV (S) USB-30*	3	4	14	56	3	4	17	43	3	4	0	0	3	4	0	0	1.0	942.	883.	48.7	48.7
RED (S) USB-30*	3	4	26	56	3	4	30	31	3	4	0	0	3	4	0	0	1.8	948.	850.	48.8	48.8
HAW (S) USB-30*	3	4	23	12	3	4	31	7	3	4	24	18	3	4	30	6	25.8	923.	275.	48.8	48.8
CAL (C) FPS-16	3	4	32	30	3	4	40	43	3	4	33	28	3	4	39	42	49.9	864.	168.	48.9	48.9
GDS (S) USB-30*	3	4	33	17	3	4	41	28	3	4	34	21	3	4	40	29	39.0	852.	201.	49.0	49.0
GYM (S) USB-30*	3	4	35	2	3	4	42	47	3	4	36	7	3	4	41	39	20.1	586.	337.	49.0	49.0
WHS (C) FPS-16M	3	4	35	34	3	4	43	53	3	4	36	44	3	4	42	48	33.9	765.	223.	49.0	49.0
TEX (S) USB-30*	3	4	37	53	3	4	46	2	3	4	39	5	3	4	44	51	20.4	744.	333.	49.0	49.0
MIL (S) USB-30*	3	4	41	26	3	4	49	37	3	4	42	35	3	4	48	36	32.3	816.	232.	49.1	49.1
PAT (C) FPQ-9	3	4	41	29	3	4	49	41	3	4	42	38	3	4	48	39	32.3	803.	232.	49.1	49.1
GBI (C) TPQ-18	3	4	42	8	3	4	50	23	3	4	43	12	3	4	49	14	34.0	789.	222.	49.1	49.1
GBM (S) USB-30*	3	4	42	8	3	4	50	24	3	4	43	12	3	4	49	14	34.2	790.	221.	49.1	49.1
BDA (C) FPS-16M	3	4	45	47	3	4	50	55	3	4	0	0	3	4	0	0	3.8	799.	744.	49.1	49.1
BDQ (C) FPQ-9	3	4	45	47	3	4	50	55	3	4	0	0	3	4	0	0	3.8	799.	744.	49.1	49.1
BDA (S) USB-30*	3	4	45	47	3	4	50	55	3	4	0	0	3	4	0	0	3.8	799.	744.	49.1	49.1
ANG (S) USB-30*	3	4	46	56	3	4	54	58	3	4	47	50	3	4	54	5	88.4	945.	128.	49.1	49.1

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO						
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	MIN		RANGE					
ASC (C) TPQ-18	3	5	1	1	3	5	8	33	7	32	3	5	2	8	3	5	7	18	5	9	16.8	376.	49.2
ACN (S) USB-30*	3	5	1	2	3	5	8	33	7	31	3	5	2	10	3	5	7	18	5	7	16.6	378.	49.2
PRE (C) MPS-25M	3	5	12	40	3	5	20	19	7	39	3	5	13	48	3	5	19	1	5	12	16.4	386.	49.4
TAN (C) FPS-16M	3	5	19	51	3	5	22	1	2	10	0	0	0	0	0	0	0	0	0	0	1.0	891.	49.4
CRO (C) FPQ-6	3	5	32	45	3	5	38	51	6	6	3	5	34	37	3	5	37	5	2	27	5.9	914.	49.6
CRO (S) USB-30*	3	5	32	45	3	5	38	51	6	6	3	5	34	37	3	5	37	4	2	27	5.9	915.	49.6
GMM (S) USB-30*	3	5	44	2	3	5	52	0	7	58	3	5	45	11	3	5	50	49	5	37	18.9	761.	49.7
HAW (C) FPS-16M	3	5	58	28	3	6	4	43	6	15	3	6	0	23	3	6	2	58	2	34	6.4	872.	49.8
HAW (S) USB-30*	3	5	58	28	3	6	4	43	6	15	3	6	0	23	3	6	2	58	2	34	6.4	872.	49.8
CAL (C) FPS-16	3	6	6	30	3	6	14	33	8	2	3	6	7	32	3	6	13	25	5	53	27.9	868.	49.9
GDS (S) USB-85*	3	6	7	19	3	6	15	4	7	45	3	6	8	30	3	6	14	2	5	32	20.8	927.	50.0
GYM (S) USB-30*	3	6	9	2	3	6	17	10	8	8	3	6	9	59	3	6	16	16	6	16	66.8	907.	50.0
WHS (C) FPS-16M	3	6	11	57	3	6	17	31	7	49	3	6	10	59	3	6	16	25	5	25	18.4	839.	50.0
TEX (S) USB-30*	3	6	16	35	3	6	20	0	8	2	3	6	13	8	3	6	18	49	5	41	19.5	755.	50.0
MIL (S) USB-30*	3	6	16	35	3	6	21	51	5	16	3	6	13	8	0	0	0	0	0	0	4.4	893.	50.0
PAT (C) FPQ-6	3	6	16	35	3	6	21	58	5	23	0	0	0	0	0	0	0	0	0	0	4.6	893.	50.0
GBI (C) TPQ-18	3	6	17	14	3	6	22	43	5	28	0	0	0	0	0	0	0	0	0	0	4.1	734.	50.0
GRM (S) USB-30*	3	6	17	15	3	6	22	43	5	28	0	0	0	0	0	0	0	0	0	0	4.1	735.	50.0
ANG (S) USB-30*	3	6	22	20	3	6	27	12	4	51	0	0	0	0	0	0	0	0	0	0	3.6	906.	50.1
PRE (C) MPS-25M	3	6	47	20	3	6	54	32	7	11	3	6	48	43	3	6	53	9	4	25	11.9	669.	50.4
TAN (C) FPS-16M	3	6	53	19	3	6	58	21	5	2	0	0	0	0	0	0	0	0	0	0	3.4	784.	50.4
GMM (S) USB-30*	3	7	18	30	3	7	25	35	7	5	3	7	19	54	3	7	24	10	4	16	9.6	865.	50.7
HAW (C) FPS-16M	3	7	33	32	3	7	39	11	5	38	0	0	0	0	0	0	0	0	0	0	4.8	917.	50.8
HAW (S) USB-30*	3	7	33	32	3	7	39	11	5	39	0	0	0	0	0	0	0	0	0	0	4.8	917.	50.8
CAL (C) FPS-16	3	7	41	2	3	7	47	20	6	17	3	7	42	44	3	7	45	33	2	48	6.6	884.	50.9
GDS (S) USB-85*	3	7	42	12	3	7	47	24	5	11	0	0	0	0	0	0	0	0	0	0	4.2	881.	50.9
WHS (C) FPS-16M	3	7	43	25	3	7	50	27	7	2	3	7	44	50	3	7	49	2	4	12	11.2	680.	50.9
TEX (S) USB-30*	3	7	48	3	3	7	49	6	3	41	0	0	0	0	0	0	0	0	0	0	2.0	925.	50.9
PRE (C) MPS-25M	3	8	21	23	3	8	29	16	7	52	0	0	0	0	0	0	0	0	0	0	1.4	907.	51.0
TAN (C) FPS-16M	3	8	26	23	3	8	34	14	7	51	3	8	22	34	3	8	28	13	5	38	22.1	890.	51.4
HAW (C) FPS-16M	3	9	7	18	3	9	14	35	7	17	3	9	8	38	3	9	13	15	4	36	12.8	839.	51.4
HAW (S) USB-30*	3	9	10	56	3	9	14	35	7	17	3	9	8	38	3	9	13	15	4	36	12.8	651.	51.8
RED (S) USB-30*	3	9	10	56	3	9	16	51	5	54	3	9	12	57	3	9	13	7	0	10	5.0	947.	51.9
PRE (C) MPS-25M	3	9	55	22	3	10	3	22	3	10	3	9	56	30	3	10	2	22	5	51	28.5	864.	52.4
TAN (C) FPS-16M	3	10	0	31	3	10	8	0	7	28	3	10	1	43	3	10	6	42	4	58	13.9	864.	52.4
HAW (C) FPS-16M	3	10	41	3	3	10	49	7	8	3	3	10	42	1	3	10	48	12	6	11	57.0	913.	52.8

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
 (a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO				
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR		MIN	SEC		
BDA (C) FPS-16M	3	20	42	6	3	20	47	48	3	20	44	41	3	20	45	14	3	20	45	5.4	825.	676.	59.1
BQ (C) FPQ-6	3	20	42	6	3	20	47	48	3	20	44	41	3	20	45	14	3	20	45	5.4	825.	676.	59.1
BDA (S) USB-30*	3	20	42	6	3	20	47	48	3	20	44	41	3	20	45	14	3	20	45	5.4	825.	676.	59.1
ANG (S) USB-30*	3	20	39	38	3	20	47	37	3	20	40	52	3	20	46	32	5	39	22.2	22.2	821.	308.	59.1
VAN (S) USB-30*	3	20	44	56	3	20	52	49	3	20	45	54	3	20	51	47	5	53	28.6	943.	255.	59.2	
CYI (C) MPS26	3	20	51	18	3	20	58	56	3	20	52	31	3	20	57	50	5	18	17.6	628.	370.	59.2	
CYI (S) USB-30*	3	20	51	18	3	20	58	56	3	20	52	31	3	20	57	50	5	18	17.6	628.	370.	59.2	
MAD (S) USB-85*	3	20	53	56	3	21	1	10	3	20	55	19	3	20	59	51	4	31	11.9	946.	478.	59.3	
CRO (C) FPQ-6	3	21	26	27	3	21	34	40	3	21	27	35	3	21	33	38	6	3	39.1	799.	196.	59.6	
CRO (S) USB-30*	3	21	26	27	3	21	34	40	3	21	27	35	3	21	33	38	6	3	39.1	799.	196.	59.6	
HSK (S) USB-85*	3	21	34	50	3	21	42	46	3	21	36	0	3	21	41	50	5	49	22.8	732.	302.	59.7	
MER (S) USB-30*	3	21	44	40	3	21	52	34	3	21	45	48	3	21	51	36	5	48	948.	232.	59.8		
TEX (S) USB-30*	3	22	8	42	3	22	14	6	3	21	45	48	3	21	51	36	5	48	948.	232.	59.8		
MIL (S) USB-30*	3	22	10	56	3	22	18	44	3	22	12	9	3	22	17	40	5	31	20.4	906.	331.	60.1	
PAT (C) FPQ-6	3	22	10	54	3	22	18	45	3	22	12	5	3	22	17	42	5	36	21.8	903.	314.	60.1	
GBM (S) USB-30*	3	22	11	3	3	22	19	15	3	22	12	13	3	22	18	11	5	58	30.5	801.	242.	60.1	
GBM (S) USB-30*	3	22	11	3	3	22	19	15	3	22	12	13	3	22	18	11	5	58	30.4	799.	242.	60.1	
ANG (S) USB-30*	3	22	15	35	3	22	20	29	3	22	15	34	3	22	21	35	6	1	33.2	942.	227.	60.1	
BDA (C) FPS-16M	3	22	14	35	3	22	22	33	3	22	15	34	3	22	21	35	6	1	33.2	942.	227.	60.1	
BDA (S) USB-30*	3	22	14	35	3	22	22	33	3	22	15	34	3	22	21	35	6	1	33.2	942.	227.	60.1	
VAN (S) USB-30*	3	22	14	35	3	22	22	33	3	22	15	34	3	22	21	35	6	1	33.2	942.	227.	60.1	
CYI (C) MPS26	3	22	18	40	3	22	26	54	3	22	19	40	3	22	25	56	6	15	53.8	873.	160.	60.2	
CYI (S) USB-30*	3	22	25	28	3	22	33	30	3	22	26	40	3	22	32	18	5	38	17.9	759.	366.	60.2	
CYI (S) USB-30*	3	22	25	28	3	22	33	30	3	22	26	40	3	22	32	18	5	38	17.9	759.	366.	60.2	
MAD (S) USB-85*	3	22	28	5	3	22	34	1	3	22	30	9	3	22	31	30	1	20	5.8	890.	665.	60.2	
CRO (C) FPQ-6	3	23	0	59	3	23	8	25	3	23	2	18	3	23	7	13	4	55	14.6	665.	416.	60.6	
CRO (S) USB-30*	3	23	0	59	3	23	8	25	3	23	2	18	3	23	7	13	4	55	14.7	666.	416.	60.6	
HSK (S) USB-85*	3	23	8	45	3	23	16	45	3	23	9	50	3	23	15	47	5	57	32.0	893.	231.	60.7	
MER (S) USB-30*	3	23	18	44	3	23	26	18	3	23	19	55	3	23	25	8	5	12	17.6	605.	366.	60.8	
GYM (S) USB-30*	3	23	38	49	3	23	45	57	3	23	40	8	3	23	44	37	4	29	12.4	939.	464.	61.0	
WHS (C) FPS-16M	3	23	40	34	3	23	47	1	3	23	42	10	3	23	45	14	3	3	7.7	944.	593.	61.0	
TEX (S) USB-30*	3	23	41	4	3	23	49	12	3	23	42	11	3	23	48	4	5	33	27.7	948.	262.	61.0	
MIL (S) USB-30*	3	23	44	40	3	23	52	53	3	23	45	48	3	23	51	51	6	2	32.3	822.	232.	61.1	
PAT (C) FPQ-6	3	23	44	41	3	23	52	53	3	23	45	50	3	23	51	50	6	0	30.4	824.	244.	61.1	
GBI (C) TPQ-18	3	23	45	14	3	23	53	12	3	23	46	26	3	23	51	59	5	33	16.6	765.	387.	61.1	
GBM (S) USB-30*	3	23	45	15	3	23	53	12	3	23	46	27	3	23	52	5	5	33	16.6	766.	387.	61.1	
BDA (C) FPS-16M	3	23	48	24	3	23	56	38	3	23	49	25	3	23	55	41	6	15	54.5	872.	158.	61.1	

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION			LOSS			ACQUISITION			LOSS			DURATION			MAX ELEV			MIN RANGE			REV NO																					
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN
BQ (C) FPQ-9	3	23	48	24	3	23	56	38	3	23	49	25	3	23	55	41	6	15	54.5	872.	158.	61.1	61.1																				
BDA (S) USD-3C*	3	23	48	24	3	23	56	38	3	23	49	25	3	23	55	40	6	15	54.6	872.	158.	61.1	61.1																				
VAN (S) USB-3C*	3	23	52	43	4	0	1	1	3	23	53	51	3	23	59	58	6	6	36.7	791.	210.	61.2	61.2																				
CYI (C) MPS-20	3	23	59	28	4	0	7	39	4	0	0	31	4	0	6	30	5	59	32.4	804.	229.	61.2	61.2																				
CYI (S) USB-3C*	3	23	59	28	4	0	7	39	4	0	0	31	4	0	6	30	5	59	32.4	804.	229.	61.2	61.2																				
TAN (C) FPS-16M	4	0	19	43	4	0	27	23	4	0	20	54	4	0	26	12	5	18	15.8	934.	387.	61.4	61.4																				
CRO (C) FPQ-6	4	0	35	48	4	0	42	37	4	0	37	23	4	0	41	7	3	43	8.6	932.	564.	61.6	61.6																				
CRO (S) USB-30*	4	0	35	48	4	0	42	37	4	0	37	23	4	0	41	7	3	43	8.6	932.	564.	61.6	61.6																				
HSK (S) USB-35*	4	0	42	57	4	0	49	58	7	0	44	22	4	0	48	33	4	10	11.1	686.	493.	61.7	61.7																				
HTV (S) USB-30*	4	0	51	2	4	0	57	38	6	36	4	0	52	41	4	0	55	8.5	756.	564.	61.7	61.7																					
RED (S) USB-3C*	4	1	2	22	4	1	10	8	7	45	4	1	3	33	4	1	8	57	939.	302.	61.9	61.9																					
CAL (C) FPS-16	4	1	11	17	4	1	18	12	6	54	4	1	12	49	4	1	16	45	22.7	939.	302.	61.9	61.9																				
GDS (S) USB-95*	4	1	12	2	4	1	19	6	7	3	4	1	13	25	4	1	17	41	10.2	733.	521.	61.9	61.9																				
GYM (S) USB-30*	4	1	12	5	4	1	20	18	4	1	13	2	4	1	19	16	6	14	51.1	864.	165.	62.0	62.0																				
WHS (C) FPS-16M	4	1	13	21	4	1	21	34	4	1	14	33	4	1	20	25	5	51	25.0	741.	283.	62.0	62.0																				
TEX (S) USB-3C*	4	1	15	9	4	1	23	8	4	1	16	23	4	1	22	2	5	38	20.9	838.	327.	62.0	62.0																				
MIL (S) USB-30*	4	1	19	5	4	1	26	56	7	59	4	1	20	20	4	1	25	50	19.0	876.	352.	62.1	62.1																				
PAT (C) FPQ-9	4	1	19	8	4	1	26	56	7	48	4	1	20	25	4	1	25	48	17.8	877.	368.	62.1	62.1																				
GBI (C) TPQ-18	4	1	19	53	4	1	27	20	7	26	4	1	21	11	4	1	26	0	11.6	838.	488.	62.1	62.1																				
GBM (S) USB-3C*	4	1	19	53	4	1	27	20	7	26	4	1	21	12	4	1	26	0	11.6	840.	487.	62.1	62.1																				
ANG (S) USB-30*	4	1	27	14	4	1	28	57	1	42	0	0	0	0	0	0	0	.5	918.	918.	62.1	62.1																					
BDA (C) FPS-16M	4	1	22	32	4	1	30	38	8	6	4	1	23	26	4	1	29	44	81.6	928.	131.	62.1	62.1																				
BDA (S) USB-30*	4	1	22	32	4	1	30	38	8	6	4	1	23	26	4	1	29	44	81.6	928.	131.	62.1	62.1																				
VAN (S) USB-3C*	4	1	22	32	4	1	30	38	8	6	4	1	23	26	4	1	29	44	81.7	928.	131.	62.1	62.1																				
CYI (C) MPS-20	4	1	26	48	4	1	34	44	7	55	4	1	27	55	4	1	33	45	26.8	906.	268.	62.2	62.2																				
CYI (S) USB-30*	4	1	34	34	4	1	39	49	5	14	0	0	0	0	0	0	0	0	4.0	773.	732.	62.2	62.2																				
PRE (C) MPS-25M	4	1	50	38	4	1	57	34	6	56	0	0	0	0	0	0	0	0	4.0	773.	732.	62.2	62.2																				
TAN (C) FPS-16M	4	1	53	45	4	1	53	45	2	1	11	11	4	1	52	30	3	34	9.0	939.	541.	62.3	62.3																				
CRO (C) FPQ-9	4	2	9	55	4	2	17	27	7	31	4	1	54	59	4	1	59	57	16.9	938.	372.	62.4	62.4																				
CRO (S) USB-30*	4	2	9	55	4	2	17	27	7	31	4	2	11	10	4	2	16	13	17.4	904.	370.	62.6	62.6																				
HTV (S) USB-3C*	4	2	24	24	4	2	32	11	7	46	4	2	25	33	4	2	31	2	17.4	904.	370.	62.6	62.6																				
HAW (C) FPS-16M	4	2	35	5	4	2	42	57	7	51	4	2	36	14	4	2	41	52	28.1	938.	254.	62.7	62.7																				
HAW (S) USB-30*	4	2	35	5	4	2	42	57	7	51	4	2	36	14	4	2	41	52	28.1	938.	254.	62.7	62.7																				
RED (S) USB-3C*	4	2	36	31	4	2	43	52	7	20	4	2	37	48	4	2	42	32	22.3	937.	306.	62.8	62.8																				
CAL (C) FPS-16	4	2	44	25	4	2	51	21	6	55	4	2	45	24	4	2	51	30	13.5	661.	439.	62.8	62.8																				
GDS (S) USB-35*	4	2	45	10	4	2	52	51	7	41	4	2	46	22	4	2	52	10	37.7	925.	206.	62.9	62.9																				
GDS (S) USB-35*	4	2	45	10	4	2	52	51	7	41	4	2	46	22	4	2	52	10	22.4	873.	309.	63.0	63.0																				

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO			
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	ELEV	RANGE	RANGE	RANGE	MIN	REV		
GYM (S) USB-30*	4	2	46	29	4	2	54	11	4	2	47	38	4	2	52	31	4	52	19.7	674.	343.	63.0
WHS (C) FPS-16M	4	2	47	17	4	2	55	36	4	2	48	25	4	2	54	23	4	58	29.8	748.	247.	63.0
TEX (S) USB-30*	4	2	49	38	4	2	57	22	4	2	50	50	4	2	56	5	5	14	15.8	831.	401.	63.0
MIL (S) USB-30*	4	2	52	51	4	3	1	23	4	2	54	23	4	3	0	12	5	48	21.6	735.	317.	63.1
PAT (C) FPQ-6	4	2	52	55	4	3	1	25	4	2	54	26	4	3	0	13	5	47	21.4	747.	319.	63.1
GBI (C) TPQ-18	4	2	53	55	4	3	1	57	4	2	55	3	4	3	0	48	5	44	23.8	901.	294.	63.1
GBM (S) USB-30*	4	2	53	56	4	3	1	57	4	2	55	4	4	3	0	48	5	44	23.9	903.	294.	63.1
BDA (C) FPS-16M	4	2	56	34	4	3	4	15	4	2	57	43	4	3	3	12	5	28	20.4	603.	331.	63.1
BDO (C) FPQ-6	4	2	56	34	4	3	4	15	4	2	57	43	4	3	3	12	5	28	20.4	603.	331.	63.1
BDA (S) USB-30*	4	2	59	8	4	3	6	4	4	3	0	40	4	3	4	38	3	58	10.1	746.	520.	63.1
VAN (S) USB-30*	4	3	1	54	4	3	6	50	0	0	0	0	0	0	0	0	0	0	3.7	893.	747.	63.1
ASC (C) TPQ-18	4	3	12	41	4	3	20	22	4	3	13	51	4	3	19	21	5	30	21.7	924.	308.	63.2
ACN (S) USB-30*	4	3	12	42	4	3	20	23	4	3	13	52	4	3	19	22	5	30	21.9	920.	305.	63.2
PRE (C) MPS-25M	4	3	24	3	4	3	32	7	4	3	24	57	4	3	31	8	6	10	59.5	889.	146.	63.4
TAN (C) FPS-16M	4	3	29	41	4	3	34	0	4	3	0	0	4	3	0	0	0	0	3.0	943.	779.	63.4
CRO (C) FPQ-6	4	3	43	42	4	3	51	52	4	3	44	42	4	3	50	45	6	3	37.6	832.	203.	63.6
CRO (S) USB-30*	4	3	43	42	4	3	51	52	4	3	44	42	4	3	50	45	6	3	37.6	832.	203.	63.6
GMM (S) USB-30*	4	4	13	54	4	4	1	3	0	0	0	0	0	0	0	0	0	0	1.1	880.	880.	63.7
RED (S) USB-30*	4	4	9	6	4	4	16	50	4	4	10	21	4	4	15	39	5	18	15.2	814.	407.	63.8
HAW (S) USB-30*	4	4	17	34	4	4	16	51	4	4	10	21	4	4	15	39	5	18	15.2	814.	407.	63.8
CAL (C) FPS-16	4	4	18	59	4	4	26	22	4	4	19	25	4	4	25	16	5	50	60.7	949.	148.	63.9
GDS (S) USB-85*	4	4	20	49	4	4	27	7	4	4	20	14	4	4	26	0	5	45	43.9	950.	183.	63.9
GYM (S) USB-30*	4	4	20	49	4	4	28	35	4	4	22	1	4	4	27	24	5	23	22.5	951.	308.	64.0
WHS (C) FPS-16M	4	4	21	27	4	4	29	30	4	4	22	33	4	4	28	24	5	50	79.1	946.	131.	64.0
TEX (S) USB-30*	4	4	23	45	4	4	31	44	4	4	24	53	4	4	30	37	5	44	41.5	948.	190.	64.0
MIL (S) USB-30*	4	4	27	22	4	4	35	16	4	4	28	31	4	4	34	6	5	29	27.3	949.	262.	64.0
PAT (C) FPQ-6	4	4	27	24	4	4	35	20	4	4	28	33	4	4	34	6	5	32	28.9	950.	251.	64.0
GBI (C) TPQ-18	4	4	28	2	4	4	35	56	4	4	29	11	4	4	34	58	5	47	33.5	950.	223.	64.0
GBM (S) USB-30*	4	4	28	3	4	4	35	56	4	4	29	11	4	4	34	58	5	47	33.4	948.	223.	64.0
BDA (C) FPS-16M	4	4	32	17	4	4	35	35	4	4	30	0	4	4	34	0	0	0	1.7	847.	847.	64.0
BDO (C) FPQ-6	4	4	32	17	4	4	35	35	4	4	30	0	4	4	34	0	0	0	1.7	847.	847.	64.0
BDA (S) USB-30*	4	4	32	17	4	4	35	35	4	4	30	0	4	4	34	0	0	0	1.7	847.	847.	64.0
ANG (S) USB-30*	4	4	32	36	4	4	40	43	4	4	33	48	4	4	39	41	5	52	29.1	794.	247.	64.1
ASC (C) TPQ-18	4	4	47	3	4	4	53	55	4	4	48	35	4	4	52	31	3	55	9.8	774.	521.	64.2
ACN (S) USB-30*	4	4	47	5	4	4	53	55	4	4	48	37	4	4	52	30	3	53	9.6	778.	525.	64.2

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION			DURATION			LOSS			ACQUISITION			LOSS			DURATION			MAX ELEV RANGE			MIN RANGE			REV NO		
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MAX ELEV	MAX RANGE	MIN RANGE	MIN RANGE	REV NO
PRE (C) MPS-25M	4	4	58	32	4	5	5	56	7	24	4	4	59	52	4	5	4	45	4	53	14.5	669.	415.	64.3	64.3		
TAN (C) FPS-16M	4	5	5	35	4	5	8	12	2	36	0	0	0	0	0	0	0	0	0	0	0	924.	908.	64.4	64.4		
CRO (C) FPQ-0	4	5	19	6	4	5	23	49	4	42	0	0	0	0	0	0	0	0	0	0	3.2	832.	768.	64.5	64.5		
GWM (S) USB-30*	4	5	19	7	4	5	23	48	4	41	0	0	0	0	0	0	0	0	0	0	3.2	833.	769.	64.5	64.5		
GWM (S) USB-30*	4	5	29	40	4	5	37	46	8	5	4	5	30	36	4	5	36	45	6	8	47.8	879.	170.	64.7	64.7		
HAW (C) FPS-16M	4	5	44	29	4	5	50	26	5	56	4	5	47	15	4	5	48	16	1	1	5.6	883.	673.	64.8	64.8		
HAW (S) USB-30*	4	5	44	29	4	5	50	26	5	56	4	5	47	15	4	5	48	16	1	1	5.6	883.	672.	64.8	64.8		
CAL (C) FPS-16	4	5	52	15	4	6	0	3	7	48	4	5	53	22	4	5	59	3	5	41	23.8	934.	294.	64.9	64.9		
GDS (S) USB-85*	4	5	53	4	4	6	0	40	7	35	4	5	54	20	4	5	59	27	5	7	13.7	819.	435.	64.9	64.9		
GWM (S) USB-30*	4	5	54	40	4	6	2	57	8	16	4	5	55	52	4	6	1	51	5	58	31.0	753.	238.	65.0	65.0		
WHS (C) FPS-16M	4	5	55	34	4	6	3	2	7	27	4	5	56	46	4	6	1	44	4	57	13.7	871.	432.	65.0	65.0		
TEX (S) USB-30*	4	5	57	52	4	6	5	29	7	36	4	5	58	58	4	6	4	14	5	16	17.9	927.	361.	65.0	65.0		
MIL (S) USB-30*	4	6	3	13	4	6	6	30	3	17	0	0	0	0	0	0	0	0	0	0	1.3	885.	869.	65.0	65.0		
PAT (C) FPQ-0	4	6	3	10	4	6	6	39	3	28	0	0	0	0	0	0	0	0	0	0	1.4	870.	861.	65.0	65.0		
GBI (C) TPQ-18	4	6	3	42	4	6	7	22	3	39	0	0	0	0	0	0	0	0	0	0	1.9	908.	830.	65.0	65.0		
GBM (S) USB-30*	4	6	3	42	4	6	7	22	3	39	0	0	0	0	0	0	0	0	0	0	1.9	909.	831.	65.0	65.0		
ANG (S) USB-30*	4	6	9	35	4	6	10	55	1	20	0	0	0	0	0	0	0	0	0	0	5	907.	907.	65.0	65.0		
PRE (C) MPS-25M	4	6	33	6	4	6	40	18	7	12	4	6	34	30	4	6	38	59	4	29	11.1	889.	492.	65.4	65.4		
TAN (C) FPS-16M	4	6	38	49	4	7	19	14	5	42	4	6	41	46	4	6	42	7	0	21	5.3	864.	680.	65.4	65.4		
GWM (S) USB-30*	4	7	4	26	4	7	10	58	6	21	4	7	6	33	4	7	9	1	2	27	7.3	794.	607.	65.7	65.7		
HAW (C) FPS-16M	4	7	19	14	4	7	25	5	5	51	4	7	21	38	4	7	22	27	0	48	5.6	836.	670.	65.8	65.8		
HAW (S) USB-30*	4	7	19	13	4	7	25	5	5	51	4	7	21	38	4	7	22	27	0	48	5.6	835.	670.	65.8	65.8		
CAL (C) FPS-16	4	7	27	3	4	7	32	27	5	23	0	0	0	0	0	0	0	0	0	0	4.7	874.	705.	65.9	65.9		
GDS (S) USB-85*	4	7	28	35	4	7	32	14	3	38	0	0	0	0	0	0	0	0	0	0	1.9	911.	834.	65.9	65.9		
PRE (S) USB-30*	4	7	29	25	4	7	35	37	6	11	4	7	31	19	4	7	33	45	2	26	6.7	853.	624.	65.9	65.9		
GWM (S) USB-30*	4	8	7	0	4	8	15	4	8	4	4	8	12	58	4	8	13	53	5	43	20.7	749.	323.	66.4	66.4		
PRE (C) MPS-25M	4	8	12	1	4	8	19	55	7	54	4	8	12	58	4	8	13	53	5	43	20.7	749.	323.	66.4	66.4		
TAN (C) FPS-16M	4	8	12	1	4	8	19	55	7	54	4	8	12	58	4	8	13	53	5	43	20.7	749.	323.	66.4	66.4		
HAW (C) FPS-16M	4	8	52	49	4	8	52	49	7	36	4	8	54	8	4	8	59	16	5	7	15.0	862.	409.	66.8	66.8		
HAW (S) USB-30*	4	8	52	49	4	8	52	49	7	36	4	8	54	8	4	8	59	16	5	7	15.0	862.	408.	66.8	66.8		
REC (S) USB-30*	4	8	56	18	4	9	0	26	6	39	4	8	57	50	4	9	1	16	3	26	8.6	781.	562.	66.9	66.9		
PRE (C) MPS-25M	4	9	41	5	4	9	48	48	7	43	4	9	42	18	4	9	47	38	5	20	15.2	782.	401.	67.3	67.3		
TAN (C) FPS-16M	4	9	46	26	4	9	53	10	6	44	4	9	47	56	4	9	51	34	3	38	9.4	736.	532.	67.4	67.4		
HAW (C) FPS-16M	4	10	26	39	4	10	34	38	7	59	4	10	27	52	4	10	33	36	5	43	24.5	810.	282.	67.8	67.8		
HAW (S) USB-30*	4	10	26	35	4	10	34	38	7	59	4	10	27	52	4	10	33	36	5	43	24.5	810.	283.	67.8	67.8		
RED (S) USB-30*	4	10	29	40	4	10	37	42	8	2	4	10	30	37	4	10	36	39	6	2	40.6	880.	189.	67.8	67.8		
HAW (C) FPS-16M	4	12	3	44	4	12	4	26	0	42	0	0	0	0	0	0	0	0	0	0	.3	918.	918.	68.8	68.8		
HAW (S) USB-30*	4	12	3	44	4	12	4	26	0	41	0	0	0	0	0	0	0	0	0	0	.3	919.	919.	68.8	68.8		

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO	
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC		
RED (S) USB-30*	4	12	7	2	4	12	8	17	0	0	0	0	0	0	0	0	912.	68.8
ASC (C) TPQ-18	4	12	42	41	4	12	49	9	4	12	47	19	4	12	47	19	754.	580.
ACN (S) USB-30*	4	12	42	42	4	12	49	10	4	12	44	32	4	12	47	20	750.	579.
GWM (S) USB-30*	4	13	24	19	4	13	30	52	4	13	25	54	4	13	29	7	796.	576.
HTV (S) USB-30*	4	13	34	9	4	13	38	10	0	0	0	0	0	0	0	0	914.	808.
ASC (C) TPQ-18	4	14	15	58	4	14	23	50	7	51	4	14	16	55	48	31.7	936.	230.
ACN (S) USB-30*	4	14	16	0	4	14	23	50	7	50	4	14	16	56	49	31.5	542.	231.
GWM (S) USB-30*	4	14	57	36	4	15	5	38	8	1	4	14	58	34	43	36.6	867.	204.
HTV (S) USB-30*	4	15	6	1	4	15	13	58	7	57	4	15	6	55	4	88.5	486.	125.
MER (S) USB-30*	4	15	13	0	4	15	20	50	7	49	4	15	14	11	41	17.4	780.	364.
CYI (C) MPS26	4	15	57	15	4	16	0	22	3	7	0	0	0	0	0	1.2	905.	874.
CYI (S) USB-30*	4	15	57	15	4	16	0	22	3	6	0	0	0	0	0	1.2	905.	874.
HTV (S) USB-30*	4	16	41	39	4	16	46	26	4	47	0	0	0	0	0	3.4	888.	753.
MER (S) USB-30*	4	16	46	53	4	16	54	49	4	16	48	6	4	16	53	41	783.	340.
CYI (C) MPS26	4	17	28	20	4	17	36	16	7	55	4	17	29	28	15	26.4	899.	270.
CYI (S) USB-30*	4	17	28	20	4	17	36	16	7	55	4	17	29	28	15	26.4	899.	270.
MAD (S) USB-85*	4	17	33	16	4	17	38	32	5	15	0	0	0	0	0	4.4	872.	721.
HSK (S) USB-85*	4	18	14	39	4	18	19	16	4	36	0	0	0	0	0	2.7	793.	786.
MER (S) USB-30*	4	18	21	46	4	18	28	41	6	54	4	18	23	12	10	9.1	904.	547.
ANG (S) USB-30*	4	18	51	14	4	18	58	54	7	39	4	18	52	25	41	14.6	797.	413.
VAN (S) USB-30*	4	18	57	27	4	19	3	33	6	5	4	18	59	26	16	6.4	857.	638.
CYI (S) USB-30*	4	19	2	15	4	19	10	16	8	1	4	19	3	19	16	30.2	900.	244.
MAD (S) USB-85*	4	19	5	45	4	19	12	53	7	7	4	19	7	5	23	10.8	907.	502.
CRO (S) USB-30*	4	19	38	44	4	19	45	27	6	42	4	19	40	20	56	9.4	721.	529.
HSK (S) USB-85*	4	19	46	36	4	19	54	13	7	37	4	19	47	52	7	18.0	902.	357.
MIL (S) USB-30*	4	19	56	8	4	20	3	18	7	10	4	19	57	27	1	11.8	710.	473.
PAT (C) FPQ-6	4	20	24	28	4	20	28	37	4	9	0	0	0	0	0	2.5	870.	806.
GBI (C) TPQ-18	4	20	24	18	4	20	28	42	4	24	0	0	0	0	0	2.8	857.	789.
GWM (S) USB-30*	4	20	23	43	4	20	29	44	6	0	4	20	25	39	35	5.9	895.	655.
BDA (C) FPS-16M	4	20	26	54	4	20	33	26	6	31	4	20	28	39	44	8.3	762.	573.
BDA (C) FPQ-6	4	20	26	54	4	20	33	26	6	31	4	20	28	39	44	8.3	762.	573.
BDA (S) USB-30*	4	20	26	54	4	20	33	26	6	31	4	20	28	39	44	8.3	762.	573.
ANG (S) USB-30*	4	20	25	9	4	20	32	48	7	39	4	20	26	23	34	13.6	796.	435.
VAN (S) USB-30*	4	20	30	7	4	20	38	8	8	1	4	20	31	6	11	39.4	925.	197.

-----0 DEGREE ELEVATION ANGLE-----5 DEGREE ELEVATION ANGLE-----RANGE AND ELEVATION-----

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		RANGE AND ELEVATION					
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN RANGE	MAX RANGE	REV NO	
CYI (C) MPS-20	4	20	36	40	4	20	44	21	7	40	0	0	4	20	43	11	16.1	886.	394.	74.2
CYI (S) USB-30*	4	20	36	40	4	20	44	21	7	40	0	0	4	20	43	11	16.1	885.	394.	74.2
MAD (S) USB-35*	4	20	39	14	4	20	46	22	7	8	37	0	4	20	45	2	10.5	880.	511.	74.3
CRO (C) FPQ-6	4	21	11	52	4	21	19	53	8	0	46	0	4	21	18	55	56.3	914.	150.	74.6
CRO (S) USB-30*	4	21	11	52	4	21	19	53	8	0	46	0	4	21	18	56	56.5	915.	150.	74.6
HSK (S) USB-85*	4	21	20	10	4	21	28	10	7	59	0	0	4	21	27	14	41.2	910.	188.	74.8
MER (S) USB-30*	4	21	29	56	4	21	37	55	7	59	0	0	4	21	36	55	48.4	933.	167.	74.8
TEX (S) USB-30*	4	21	53	22	4	21	59	47	6	24	0	0	4	21	58	10	7.4	838.	598.	75.0
MIL (S) USB-30*	4	21	56	7	4	22	4	2	7	54	0	0	4	21	57	8	31.9	944.	232.	75.1
PAT (C) FPQ-6	4	21	56	6	4	22	4	2	7	56	0	0	4	21	57	5	34.6	942.	217.	75.1
GBI (C) TPQ-18	4	21	56	18	4	22	4	30	8	11	0	0	4	22	3	32	50.7	850.	164.	75.1
GBM (S) USB-30*	4	21	56	18	4	22	4	31	8	12	0	0	4	22	3	32	50.4	849.	164.	75.1
ANG (S) USB-30*	4	22	1	31	4	22	5	15	3	44	0	0	0	0	0	0	1.9	893.	841.	75.1
BDA (C) FPS-16M	4	21	59	48	4	22	7	52	8	3	0	0	4	22	6	52	44.1	910.	182.	75.1
BDQ (C) FPQ-6	4	21	59	48	4	22	7	52	8	3	0	0	4	22	6	52	44.1	910.	182.	75.1
BDA (S) USB-30*	4	22	10	44	4	22	18	50	7	8	5	0	4	22	11	12	57.3	927.	152.	75.2
VAN (S) USB-30*	4	22	13	33	4	22	12	7	8	5	0	0	4	22	17	43	22.4	781.	307.	75.2
CYI (C) MPS-20	4	22	10	44	4	22	18	50	7	8	5	0	4	22	12	0	4.4	884.	716.	75.2
MAD (S) USB-35*	4	22	10	44	4	22	18	50	7	8	5	0	4	22	12	0	4.4	884.	716.	75.2
CRO (C) FPQ-6	4	22	46	27	4	22	53	40	7	13	0	0	4	22	47	49	12.5	662.	458.	75.6
CRO (S) USB-30*	4	22	46	27	4	22	53	40	7	13	0	0	4	22	47	49	12.5	662.	457.	75.6
HSK (S) USB-85*	4	23	4	13	4	23	1	54	7	49	0	0	4	23	0	53	28.5	533.	251.	75.7
MER (S) USB-30*	4	23	4	13	4	23	1	54	7	49	0	0	4	23	0	53	28.5	533.	251.	75.7
RED (S) USB-30*	4	23	17	28	4	23	18	16	0	47	0	0	0	0	0	0	0.3	920.	920.	75.9
GDS (S) USB-85*	4	23	25	56	4	23	28	26	2	29	0	0	0	0	0	0	0.6	936.	906.	76.0
GYM (S) USB-30*	4	23	23	45	4	23	31	22	7	37	0	0	4	23	30	4	17.0	897.	375.	76.0
WHS (C) FPS-16M	4	23	25	24	4	23	32	26	7	1	0	0	4	23	31	2	9.6	871.	532.	76.0
TEX (S) USB-30*	4	23	26	12	4	23	34	22	8	10	0	0	4	23	33	26	60.5	876.	146.	76.0
MIL (S) USB-30*	4	23	30	4	4	23	38	0	7	56	0	0	4	23	37	3	32.2	949.	231.	76.1
PAT (C) FPQ-6	4	23	30	5	4	23	38	0	7	54	0	0	4	23	37	1	29.8	951.	247.	76.1
GBI (C) TPQ-18	4	23	30	37	4	23	38	21	7	43	0	0	4	23	37	13	17.3	885.	373.	76.1
GBM (S) USB-30*	4	23	30	37	4	23	38	21	7	43	0	0	4	23	37	13	17.2	884.	374.	76.1
BDA (C) FPS-16M	4	23	33	41	4	23	41	51	8	9	0	0	4	23	40	52	55.8	892.	155.	76.1
BDQ (C) FPQ-6	4	23	33	41	4	23	41	51	8	9	0	0	4	23	40	52	55.8	892.	155.	76.1
BDA (S) USB-30*	4	23	33	41	4	23	41	51	8	9	0	0	4	23	40	52	55.8	892.	155.	76.1
VAN (S) USB-30*	4	23	38	3	4	23	46	9	8	6	0	0	4	23	45	15	74.2	916.	133.	76.2

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		RANGE AND ELEVATION							
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	RANGE	MIN	REV				
CYI (C) MPS26	4	23	44	44	4	23	52	43	4	23	46	0	4	23	51	39	5	39	22.3	797.	305.	76.2
CYI (S) USB-30*	4	23	44	44	4	23	52	43	4	23	46	0	4	23	51	39	5	39	22.3	797.	305.	76.2
TAN (C) FPS-16M	5	0	4	39	5	0	12	40	5	0	5	52	5	0	11	38	5	46	27.6	803.	253.	76.4
CRO (C) FPQ-6	5	0	21	6	5	0	27	55	5	0	22	41	5	0	26	28	3	46	9.2	792.	544.	76.6
CRO (S) USB-30*	5	0	21	6	5	0	27	55	5	0	22	41	5	0	26	28	3	46	9.2	791.	543.	76.6
HSK (S) USB-85*	5	0	28	22	5	0	34	48	5	0	29	57	5	0	33	3	5	7.9	803.	580.	76.7	
HTV (S) USB-30*	5	0	35	58	5	0	43	13	5	0	37	11	5	0	41	51	4	40	13.1	933.	440.	76.7
HAW (C) FPS-16M	5	0	48	36	5	0	52	23	3	47	0	0	0	0	0	0	0	2.1	893.	821.	76.8	
HAW (S) USB-30*	5	0	48	36	5	0	52	23	3	47	0	0	0	0	0	0	0	2.1	893.	821.	76.8	
RED (S) USB-30*	5	0	47	20	5	0	55	26	8	6	5	0	48	21	5	54	5	54	30.7	808.	236.	76.9
CAL (C) FPS-16	5	0	56	14	5	1	3	31	7	17	5	0	57	30	5	1	2	11	13.5	666.	439.	76.9
GDS (S) USB-85*	5	0	56	57	5	1	4	21	7	23	5	0	58	17	5	1	3	7	13.1	885.	446.	77.0
GYM (S) USB-30*	5	0	57	18	5	1	5	29	8	11	5	0	58	20	5	1	4	20	32.0	809.	233.	77.0
WHS (C) FPS-16M	5	0	58	30	5	1	6	44	8	13	5	0	59	38	5	1	4	20	36.8	803.	207.	77.0
TEX (S) USB-30*	5	1	0	28	5	1	8	16	7	48	5	1	1	41	5	1	7	11	19.6	900.	341.	77.0
MIL (S) USB-30*	5	1	4	22	5	1	12	8	7	46	5	1	5	33	5	1	11	4	20.1	923.	335.	77.1
PAT (C) FPQ-6	5	1	4	24	5	1	12	8	7	43	5	1	5	38	5	1	11	3	18.8	923.	352.	77.1
GBI (C) TPQ-18	5	1	5	8	5	1	12	35	7	26	5	1	6	28	5	1	11	18	11.9	842.	476.	77.1
GBM (S) USB-30*	5	1	5	9	5	1	12	35	7	26	5	1	6	28	5	1	11	18	11.9	841.	477.	77.1
BDA (C) FPS-16M	5	1	7	41	5	1	15	50	8	8	5	1	8	37	5	1	14	52	64.5	892.	142.	77.1
BDQ (C) FPQ-6	5	1	7	41	5	1	15	50	8	8	5	1	8	37	5	1	14	52	64.5	892.	142.	77.1
BDA (S) USB-30*	5	1	7	41	5	1	15	50	8	9	5	1	8	37	5	1	14	52	64.4	892.	142.	77.1
ANG (S) USB-30*	5	1	11	38	5	1	19	46	3	14	5	0	0	0	0	0	0	1.3	909.	869.	77.1	
VAN (S) USB-30*	5	1	12	6	5	1	19	46	7	39	5	1	13	12	5	1	18	38	20.1	584.	332.	77.1
CYI (C) MPS26	5	1	20	42	5	1	24	5	3	22	0	0	0	0	0	0	0	1.7	924.	843.	77.2	
CYI (S) USB-30*	5	1	20	42	5	1	24	5	3	22	0	0	0	0	0	0	0	1.7	925.	843.	77.2	
ACN (S) USB-30*	5	1	27	57	5	1	28	1	0	4	0	0	0	0	0	0	0	0	0	930.	930.	77.2
PRE (C) MPS-25M	5	1	35	49	5	1	43	2	7	13	5	1	37	1	5	1	41	41	12.6	898.	447.	77.4
TAN (C) FPS-16M	5	1	55	4	5	1	46	13	7	5	5	1	40	32	5	1	44	54	10.8	899.	491.	77.6
CRO (C) FPQ-6	5	1	55	4	5	2	2	47	7	43	5	1	56	15	5	2	1	40	22.0	940.	308.	77.6
CRO (S) USB-30*	5	2	9	47	5	2	2	47	7	43	5	1	56	15	5	2	1	40	22.0	940.	308.	77.6
HTV (S) USB-30*	5	2	20	16	5	2	16	54	7	6	5	2	11	8	5	2	15	44	13.9	683.	400.	77.7
HAW (C) FPS-16M	5	2	20	16	5	2	27	39	7	23	5	2	21	17	5	2	26	43	20.5	728.	278.	77.8
HAW (S) USB-30*	5	2	20	16	5	2	27	39	7	23	5	2	21	17	5	2	26	43	20.5	728.	278.	77.8
RED (S) USB-30*	5	2	22	21	5	2	28	7	5	45	5	2	24	18	5	2	26	3	6.8	756.	543.	77.8
CAL (C) FPS-16	5	2	29	45	5	2	36	51	7	5	5	2	30	58	5	2	35	56	33.1	575.	174.	77.9
GDS (S) USB-85*	5	2	30	40	5	2	37	38	6	57	5	2	31	34	5	2	36	42	19.1	762.	267.	78.0

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		RANGE AND ELEVATION			
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX RANGE	MIN RANGE	REV NO	
GVM (S) USB-3C*	5	2	32	4	5	2	38	36	5	2	37	21	3	59	13.1	648.	353.	78.0
WHS (C) FPS-16M	5	2	32	53	5	2	39	53	5	2	38	53	5	10	27.3	797.	197.	78.0
TEX (S) USB-3C*	5	2	35	14	5	2	41	37	5	2	40	24	3	59	11.7	703.	373.	78.0
MIL (S) USB-30*	5	2	38	43	5	2	45	34	5	2	44	40	5	5	18.9	749.	260.	78.1
PAT (C) FPQ-6	5	2	38	46	5	2	45	36	5	2	44	41	5	2	18.9	760.	260.	78.1
GBI (C) TPQ-18	5	2	39	23	5	2	46	14	5	2	45	1	4	33	23.5	569.	219.	78.1
GBM (S) USB-30*	5	2	39	24	5	2	46	14	5	2	45	1	4	32	23.6	568.	218.	78.1
BDA (C) FPS-16M	5	2	42	6	5	2	48	11	5	2	46	43	3	9	10.3	638.	397.	78.1
BDQ (C) FPQ-6	5	2	42	6	5	2	48	11	5	2	46	43	3	9	10.3	638.	397.	78.1
BDA (S) USB-30*	5	2	42	6	5	2	48	11	5	2	46	43	3	9	10.3	638.	397.	78.1
ANG (S) USB-3C*	5	2	44	23	5	2	50	26	6	2	49	1	3	11	9.6	687.	413.	78.1
ASC (C) TPQ-18	5	2	57	29	5	3	4	44	5	3	3	40	5	7	37.2	501.	164.	78.2
ACN (S) USB-3C*	5	2	57	29	5	3	4	44	5	3	3	41	5	7	37.9	501.	161.	78.2
PRE (C) MFS-25M	5	3	8	44	5	3	16	28	5	3	15	16	5	38	31.2	824.	216.	78.4
TAN (C) FPS-16M	5	3	14	47	5	3	18	12	5	3	0	0	0	0	1.7	883.	826.	78.4
CRO (C) FPQ-6	5	3	28	11	5	3	36	8	5	3	29	18	5	38	21.0	773.	314.	78.6
CRO (S) USB-30*	5	3	28	11	5	3	36	8	5	3	29	18	5	38	20.9	774.	315.	78.6
GVM (S) USB-30*	5	3	42	6	5	3	46	19	5	3	45	19	5	38	2.5	787.	753.	78.7
HAW (C) FPS-16M	5	3	54	5	5	4	0	26	5	3	59	4	3	30	10.4	680.	425.	78.8
HAW (S) USB-30*	5	3	54	5	5	4	0	26	5	3	59	4	3	30	10.4	680.	425.	78.8
CAL (C) FPS-16	5	4	3	3	5	4	9	59	5	4	8	56	4	4	29.7	619.	183.	78.9
GDS (S) USB-85*	5	4	3	43	5	4	10	40	5	4	9	38	4	42	29.6	550.	183.	78.9
GVM (S) USB-30*	5	4	5	29	5	4	12	13	5	4	10	59	4	21	19.0	575.	261.	79.0
WHS (C) FPS-16M	5	4	6	2	5	4	12	58	5	4	12	8	5	0	31.8	611.	171.	79.0
TEX (S) USB-30*	5	4	8	20	5	4	15	12	5	4	14	25	5	8	23.3	771.	220.	79.0
MIL (S) USB-30*	5	4	12	2	5	4	18	24	5	4	17	6	3	46	13.2	615.	337.	79.0
PAT (C) FPQ-6	5	4	12	3	5	4	18	29	5	4	17	13	3	53	13.8	619.	327.	79.0
GBI (C) TPQ-18	5	4	12	44	5	4	19	5	5	4	18	5	4	18	11.8	796.	363.	79.0
GBM (S) USB-3C*	5	4	12	44	5	4	19	6	5	4	18	5	4	17	11.8	795.	364.	79.0
ANG (S) USB-30*	5	4	17	17	5	4	23	54	5	4	22	44	4	22	15.9	651.	299.	79.1
ASC (C) TPQ-18	5	4	31	46	5	4	36	55	5	4	0	0	0	0	4.4	683.	648.	79.2
ACN (S) USB-30*	5	4	31	48	5	4	36	55	5	4	0	0	0	0	4.3	687.	650.	79.2
PRE (C) MFS-25M	5	4	42	31	5	4	49	37	5	4	48	16	4	27	10.2	830.	492.	79.4
TAN (C) FPS-16M	5	4	49	50	5	4	51	53	5	4	0	0	0	0	1.0	876.	876.	79.4
CRO (C) FPQ-6	5	5	4	17	5	5	5	46	5	5	0	0	0	0	.7	882.	882.	79.5
CRO (S) USB-3C*	5	5	4	17	5	5	5	45	5	5	0	0	0	0	.7	882.	882.	79.5
GVM (S) USB-3C*	5	5	13	27	5	5	20	59	5	5	20	8	5	35	54.0	550.	135.	79.7

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION			LCSS			DURATION			ACQUISITION			LOSS			DURATION			MAX ELEV			RANGE AND ELEVATION					
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MIN	SEC	MAX	RANGE	MIN	RANGE	REV
HAW (C) FPS-16M	5	5	29	0	5	5	32	58	3	58	0	0	0	0	0	0	0	0	0	0	0	2.7	822.	676.	79.8	79.8	
HAW (S) USB-30*	5	5	29	0	5	5	32	58	3	58	0	0	0	0	0	0	0	0	0	0	0	2.7	822.	676.	79.8	79.8	
CAL (C) FPS-16	5	5	36	16	5	5	42	38	6	22	5	5	37	30	5	5	41	26	3	55	12.8	664.	345.	79.9	79.9		
GDS (S) USB-85*	5	5	37	14	5	5	42	59	5	44	5	5	38	38	5	5	41	37	2	59	7.1	503.	480.	79.9	79.9		
GYM (S) USB-30*	5	5	38	41	5	5	45	29	6	47	5	5	39	33	5	5	44	36	5	2	17.5	738.	274.	80.0	80.0		
WHS (C) FPS-16M	5	5	39	43	5	5	45	15	5	31	5	5	41	35	5	5	43	38	2	2	17.5	763.	486.	80.0	80.0		
TEX (S) USB-30*	5	5	41	55	5	5	47	45	5	49	5	5	43	34	5	5	46	10	2	2	6.9	682.	438.	80.0	80.0		
PRE (C) MPS-25M	5	6	16	8	5	6	23	20	7	12	5	6	17	29	5	6	22	3	4	33	11.7	886.	469.	80.4	80.4		
TAN (C) FPS-16M	5	6	21	36	5	6	27	47	6	10	5	6	23	42	5	6	25	48	2	5	6.7	817.	617.	80.4	80.4		
GWM (S) USB-30*	5	6	48	31	5	6	52	42	4	11	0	0	0	0	0	0	0	0	0	0	2.9	792.	697.	80.6	80.6		
HAW (C) FPS-16M	5	7	2	45	5	7	7	1	4	16	0	0	0	0	0	0	0	0	0	0	3.3	768.	632.	80.8	80.8		
HAW (S) USB-30*	5	7	2	45	5	7	7	1	4	16	0	0	0	0	0	0	0	0	0	0	3.3	768.	632.	80.8	80.8		
GYM (S) USB-30*	5	7	13	30	5	7	16	19	2	49	0	0	0	0	0	0	0	0	0	0	1.7	705.	705.	80.9	80.9		
PRE (C) MPS-25M	5	7	49	15	5	7	57	12	7	57	5	7	50	16	5	7	56	17	6	1	40.4	901.	189.	81.4	81.4		
TAN (C) FPS-16M	5	7	54	6	5	8	2	12	8	6	5	7	55	12	5	8	1	1	5	48	28.0	746.	247.	81.4	81.4		
HAW (C) FPS-16M	5	8	35	16	5	8	41	43	6	26	5	8	36	23	5	8	40	34	4	11	13.8	672.	325.	81.8	81.8		
HAW (S) USB-30*	5	8	35	16	5	8	41	43	6	26	5	8	36	23	5	8	40	34	4	11	13.8	672.	325.	81.8	81.8		
RED (S) USB-30*	5	8	38	35	5	8	44	16	5	41	5	8	40	12	5	8	42	29	2	16	7.6	721.	465.	81.9	81.9		
PRE (C) MPS-25M	5	9	22	45	5	9	29	58	7	12	5	9	23	59	5	9	28	39	4	39	12.4	882.	446.	82.3	82.3		
TAN (C) FPS-16M	5	9	28	20	5	9	33	58	5	38	5	9	30	43	5	9	31	26	0	42	5.6	815.	641.	82.4	82.4		
HAW (C) FPS-16M	5	10	8	24	5	10	14	48	6	23	5	10	9	33	5	10	13	41	4	7	13.3	679.	332.	82.8	82.8		
HAW (S) USB-30*	5	10	8	24	5	10	14	48	6	23	5	10	9	33	5	10	13	41	4	7	13.3	679.	332.	82.8	82.8		
RED (S) USB-30*	5	10	11	16	5	10	17	57	6	41	5	10	12	17	5	10	16	49	4	31	18.1	637.	271.	82.8	82.8		
ASC (C) TPQ-18	5	12	22	25	5	12	29	14	6	49	5	12	23	52	5	12	27	52	4	0	9.3	880.	523.	84.2	84.2		
ACN (S) USB-30*	5	12	22	26	5	12	29	15	6	49	5	12	23	53	5	12	27	53	4	0	9.3	876.	523.	84.2	84.2		
GHW (S) USB-30*	5	13	4	20	5	13	9	52	5	31	5	13	6	12	5	13	7	57	1	44	7.1	681.	480.	84.7	84.7		
HTV (S) USB-30*	5	13	13	54	5	13	17	18	3	23	0	0	0	0	0	0	0	0	0	0	2.0	790.	705.	84.7	84.7		
ASC (C) TPQ-18	5	13	55	17	5	14	2	42	7	25	5	13	56	25	5	14	1	33	5	7	19.6	565.	315.	85.2	85.2		
ACN (S) USB-30*	5	13	55	18	5	14	2	42	7	24	5	13	56	27	5	14	1	34	5	6	19.4	568.	316.	85.2	85.2		
GWM (S) USB-30*	5	14	37	0	5	14	43	35	6	34	5	14	37	54	5	14	42	33	4	38	14.9	792.	312.	85.7	85.7		
HTV (S) USB-30*	5	14	45	3	5	14	52	12	7	8	5	14	45	51	5	14	51	0	5	9	30.4	619.	192.	85.7	85.7		
MER (S) USB-30*	5	14	51	41	5	14	59	1	7	20	5	14	52	52	5	14	58	4	5	12	26.4	582.	231.	85.8	85.8		
CYI (C) MPS26	5	15	35	25	5	15	38	31	3	5	0	0	0	0	0	0	0	0	0	0	1.8	770.	770.	86.2	86.2		
CYI (S) USB-30*	5	15	35	25	5	15	38	31	3	5	0	0	0	0	0	0	0	0	0	0	1.8	771.	771.	86.2	86.2		
HTV (S) USB-30*	5	16	20	51	5	16	22	36	1	44	0	0	0	0	0	0	0	0	0	0	.3	839.	839.	86.7	86.7		
MER (S) USB-30*	5	16	24	59	5	16	32	20	7	20	5	16	25	59	5	16	31	1	5	2	17.9	871.	332.	86.8	86.8		
CYI (C) MPS26	5	17	6	9	5	17	13	22	7	12	5	17	7	15	5	17	12	28	5	13	20.4	778.	274.	87.2	87.2		

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV.		MIN RANGE		REV NO
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	MIN	
CYI (S) USB-30*	5	17	6	9	5	17	13	22	5	17	12	28	5	13	20.4	274.	87.2
MAD (S) USB-85*	5	17	11	13	5	17	15	22	0	0	0	0	0	0	3.0	678.	87.3
HSK (S) USB-35*	5	17	51	40	5	17	56	5	0	0	0	0	0	0	7.9	717.	87.7
MER (S) USB-30*	5	17	58	55	5	18	5	29	5	18	3	55	3	31	8.6	564.	87.8
ANG (S) USB-30*	5	18	28	10	5	18	35	26	5	18	34	26	5	6	16.6	336.	88.1
VAN (S) USB-30*	5	18	34	25	5	18	39	57	5	18	36	32	1	7	6.1	566.	88.2
CYI (C) MPS26	5	18	39	28	5	18	46	28	5	18	45	18	4	41	22.0	246.	88.2
CYI (S) USB-30*	5	18	39	28	5	18	46	28	5	18	45	18	4	41	22.0	246.	88.2
MAD (S) USB-85*	5	18	42	59	5	18	48	49	5	18	47	24	2	59	7.2	501.	88.3
CRO (C) FPQ-6	5	19	15	12	5	19	21	26	5	19	16	33	3	24	8.3	499.	88.6
CRO (S) USB-30*	5	19	15	12	5	19	21	26	5	19	15	58	3	24	8.3	499.	88.6
HSK (S) USB-85*	5	19	22	59	5	19	30	18	5	19	29	0	5	1	17.8	335.	88.7
MER (S) USB-30*	5	19	32	17	5	19	39	25	5	19	38	6	4	28	10.9	484.	88.8
MIL (S) USB-30*	5	20	0	20	5	20	4	19	0	0	0	0	0	0	2.3	740.	89.0
PAT (C) FPQ-6	5	20	0	22	5	20	4	26	0	0	0	0	0	0	2.6	724.	89.0
GBI (C) TPQ-18	5	19	59	51	5	20	5	30	5	20	3	32	1	22	6.2	785.	89.1
GBM (S) USB-30*	5	19	59	51	5	20	5	30	5	20	3	33	1	24	6.2	785.	89.1
BDA (C) FPS-16M	5	20	3	10	5	20	8	58	5	20	4	46	2	38	6.2	576.	89.1
BDQ (C) FPQ-6	5	20	3	10	5	20	8	58	5	20	7	24	2	38	6.2	576.	89.1
BDA (S) USB-30*	5	20	3	10	5	20	8	58	5	20	7	24	2	38	6.2	576.	89.1
ANG (S) USB-30*	5	20	1	41	5	20	8	15	5	20	6	51	3	44	11.3	417.	89.1
VAN (S) USB-30*	5	20	6	26	5	20	13	37	5	20	7	24	5	18	19.5	272.	89.2
CYI (C) MPS26	5	20	13	14	5	20	19	35	6	21	18	21	3	54	11.1	387.	89.2
CYI (S) USB-30*	5	20	13	14	5	20	19	35	5	20	14	27	3	54	11.1	387.	89.2
MAD (S) USB-85*	5	20	15	46	5	20	21	22	5	20	19	44	2	5	7.1	746.	89.3
CRO (C) FPQ-6	5	20	47	28	5	20	55	1	5	20	48	32	5	33	40.7	535.	89.6
HSK (S) USB-85*	5	20	55	35	5	21	3	27	5	21	2	29	5	45	34.2	206.	89.7
MER (S) USB-30*	5	21	5	15	5	21	13	13	5	21	12	19	6	4	55.6	893.	89.8
TEX (S) USB-30*	5	21	28	48	5	21	34	42	5	21	33	9	2	41	6.7	835.	90.0
MIL (S) USB-30*	5	21	31	35	5	21	38	51	5	21	37	54	5	8	31.5	564.	90.0
PAT (C) FPQ-6	5	21	31	34	5	21	38	51	5	21	37	55	5	12	34.7	558.	90.0
GBI (C) TPQ-18	5	21	31	51	5	21	39	11	5	21	38	23	5	19	35.6	811.	90.1
GBM (S) USB-30*	5	21	31	51	5	21	39	11	5	21	38	23	5	19	35.3	809.	90.1
BDA (C) FPS-16M	5	21	35	20	5	21	42	34	5	21	41	31	5	9	46.1	504.	90.1
BDQ (C) FPQ-6	5	21	35	20	5	21	42	34	5	21	41	31	5	9	46.1	504.	90.1
BDA (S) USB-30*	5	21	35	20	5	21	42	34	5	21	41	31	5	9	46.1	504.	90.1

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV RANGE		MIN RANGE		REV NO
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	MIN	
VAN (S) USB-30*	5	21	39	34	5	21	46	43	5	21	45	44	5	1	45.3	135.	90.1
MAD (S) USB-85*	5	21	50	10	5	21	52	3	0	0	0	0	0	0	1.1	736.	90.2
CYI (C) MPS26	5	21	46	25	5	21	53	7	5	21	52	16	4	51	17.6	785.	90.2
CYI (S) USB-30*	5	21	46	25	5	21	53	7	5	21	52	16	4	51	17.6	785.	90.2
CRO (C) FPQ-6	5	22	21	21	5	22	28	7	5	22	26	36	3	53	10.4	480.	90.6
CRO (S) USB-30*	5	22	21	21	5	22	28	7	5	22	26	37	3	54	10.4	480.	90.6
HSK (S) USB-85*	5	22	28	42	5	22	36	26	5	22	35	13	5	30	22.6	856.	90.7
MER (S) USB-30*	5	22	38	58	5	22	45	28	5	22	43	55	3	25	7.9	919.	90.8
RED (S) USB-30*	5	22	50	57	5	22	53	14	0	0	0	0	0	0	.3	888.	90.9
GDS (S) USB-85*	5	23	0	58	5	23	1	17	0	0	0	0	0	0	.1	852.	90.9
GDM (S) USB-30*	5	22	58	26	5	23	5	21	5	23	4	19	4	45	13.4	786.	91.0
WHS (C) FPS-16M	5	23	0	8	5	23	6	26	5	23	5	2	3	23	9.8	698.	91.0
TEX (S) USB-30*	5	23	1	5	5	23	8	23	5	23	7	15	5	18	52.8	555.	91.0
MIL (S) USB-30*	5	23	4	59	5	23	11	55	5	23	10	49	4	53	19.3	836.	91.1
PAT (C) FPQ-6	5	23	5	1	5	23	11	54	5	23	10	48	4	48	18.1	842.	91.1
GBT (C) TPQ-18	5	23	5	35	5	23	12	9	5	23	10	50	3	55	13.0	615.	91.1
GDM (S) USB-30*	5	23	5	35	5	23	12	10	5	23	10	50	3	55	13.0	614.	91.1
BDA (C) FPS-16M	5	23	8	32	5	23	15	36	5	23	14	43	5	16	20.6	735.	91.1
BDO (C) FPQ-6	5	23	8	32	5	23	15	36	7	3	14	43	5	16	20.6	735.	91.1
BDA (S) USB-30*	5	23	8	32	5	23	15	35	7	3	14	43	5	16	20.5	735.	91.1
VAN (S) USB-30*	5	23	12	56	5	23	19	52	5	23	18	54	5	10	29.2	795.	91.2
CYI (C) MPS26	5	23	19	35	5	23	26	10	6	34	24	56	4	8	17.5	578.	91.2
CYI (S) USB-30*	5	23	19	35	5	23	26	10	6	34	24	56	4	8	17.4	578.	91.2
TAN (C) FPS-16M	5	23	39	2	5	23	46	16	5	23	45	2	5	12	31.0	828.	91.4
CRO (C) FPQ-6	5	23	55	6	6	0	1	43	6	0	0	8	3	35	8.5	813.	91.6
CRO (S) USB-30*	5	23	55	6	6	0	1	43	6	0	0	8	3	35	8.6	812.	91.6
HSK (S) USB-85*	6	0	2	17	6	0	8	20	6	0	6	13	1	56	6.7	805.	91.7
HTV (S) USB-30*	6	0	9	38	6	0	16	55	7	17	15	46	4	49	15.4	654.	91.7
HAW (C) FPS-16M	6	0	22	18	6	0	25	52	3	33	0	0	0	0	1.6	799.	91.8
HAW (S) USB-30*	6	0	22	18	6	0	25	52	3	33	0	0	0	0	1.6	800.	91.8
RED (S) USB-30*	6	0	21	15	6	0	28	48	6	0	27	51	5	35	53.5	500.	91.8
CAL (C) FPS-16	6	0	30	12	6	0	36	38	6	0	35	21	3	46	11.0	702.	91.9
GDS (S) USB-85*	6	0	31	3	6	0	37	27	6	0	36	13	3	58	10.3	757.	92.0
GDM (S) USB-30*	6	0	31	23	6	0	38	35	6	0	37	29	5	2	32.3	510.	92.0
WHS (C) FPS-16M	6	0	32	37	6	0	39	48	6	0	38	50	5	20	24.8	763.	92.0
TEX (S) USB-30*	6	0	34	40	6	0	41	13	6	0	40	9	4	20	11.2	785.	92.0
MIL (S) USB-30*	6	0	38	31	6	0	45	0	6	0	43	58	4	18	12.3	729.	92.0

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	
PAT (C) FPQ-0	6	0	38	35	6	0	45	0	6	0	43	56	4	11	5	381.	92.0
GBI (C) TPQ-18	6	0	39	21	6	0	45	25	6	0	44	3	3	19	8.9	438.	92.1
GBM (S) USB-30*	6	0	39	21	6	0	45	25	6	0	44	3	3	19	8.9	437.	92.1
BDA (C) FPS-16M	6	0	41	40	6	0	48	42	6	0	47	44	4	53	54.5	114.	92.1
BDA (C) FPQ-6	6	0	41	40	6	0	48	42	6	0	47	44	4	53	54.5	114.	92.1
BDA (S) USB-30*	6	0	41	40	6	0	48	42	6	0	47	44	4	53	54.6	113.	92.1
VAN (S) USB-30*	6	0	46	10	6	0	52	25	6	0	51	7	3	38	12.1	354.	92.1
PRE (C) MPS-25M	6	1	9	11	6	1	15	50	6	1	14	21	4	10	11.8	407.	92.4
TAN (C) FPS-16M	6	1	12	40	6	1	18	55	6	1	17	26	3	16	8.0	516.	92.6
CRO (C) FPQ-3	6	1	28	1	6	1	35	48	6	1	34	40	5	27	18.0	348.	92.6
CRO (S) USB-30*	6	1	28	1	6	1	35	48	6	1	34	41	5	28	18.0	348.	92.6
HTV (S) USB-30*	6	1	42	58	6	1	49	47	6	1	48	26	4	10	10.7	464.	92.7
HAW (C) FPS-16M	6	1	53	14	6	1	54	13	6	1	53	39	5	26	55.7	127.	92.8
HAW (S) USB-30*	6	1	53	14	6	1	54	13	6	1	53	39	5	26	55.7	128.	92.8
RED (S) USB-30*	6	2	2	49	6	2	9	52	6	2	8	52	0	22	5.2	600.	92.8
CAL (C) FPS-16	6	2	3	33	6	2	10	39	6	2	9	36	4	54	34.5	167.	92.9
GDS (S) USB-85*	6	2	5	45	6	2	12	50	6	2	11	55	4	4	11.6	381.	93.0
GYM (S) USB-30*	6	2	8	10	6	2	14	38	6	2	13	25	3	57	42.0	140.	93.0
WHS (S) FPS-16M	6	2	11	37	6	2	18	35	6	2	17	32	4	47	42.4	134.	93.0
TEX (S) USB-30*	6	2	11	39	6	2	18	37	6	2	17	34	4	44	37.8	147.	93.0
MIL (S) USB-30*	6	2	12	23	6	2	19	4	6	2	18	14	4	51	18.6	262.	93.1
GBI (C) TPQ-18	6	2	12	23	6	2	19	5	6	2	18	15	4	52	18.5	263.	93.1
GBM (S) USB-30*	6	2	15	14	6	2	20	57	6	2	19	35	2	58	7.0	479.	93.1
BDA (C) FPS-16M	6	2	15	14	6	2	20	57	6	2	19	35	2	58	7.0	496.	93.1
BDA (S) USB-30*	6	2	15	14	6	2	20	56	6	2	19	35	2	58	7.0	496.	93.1
ANG (S) USB-30*	6	2	17	21	6	2	23	25	6	2	22	10	3	33	9.9	398.	93.1
ASC (C) TPQ-18	6	2	30	32	6	2	37	35	6	2	36	40	5	16	20.0	256.	93.2
ACN (S) USB-30*	6	2	30	33	6	2	37	36	6	2	36	41	5	16	19.8	258.	93.2
PRE (C) MPS-25M	6	2	41	42	6	2	49	12	6	2	48	15	5	23	30.3	210.	93.4
TAN (C) FPS-16M	6	2	48	17	6	2	51	4	6	2	50	0	0	0	1.1	835.	93.4
CRO (C) FPQ-0	6	3	1	12	6	3	8	52	6	3	7	49	5	32	24.4	274.	93.6
CRO (S) USB-30*	6	3	1	13	6	3	8	52	6	3	7	48	5	32	24.4	275.	93.6
GWM (S) USB-30*	6	3	14	38	6	3	19	33	6	3	18	0	0	0	4.1	840.	93.7
HAW (C) FPS-16M	6	3	27	6	6	3	33	15	6	3	31	52	3	23	8.1	795.	93.8
HAW (S) USB-30*	6	3	27	6	6	3	33	15	6	3	31	52	3	23	8.1	795.	93.8

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO					
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC		
CAL (C) FPS-16	6	3	35	48	6	3	42	48	6	3	37	1	6	3	41	53	4	51	37.3	152.	93.9	
GDS (S) USB-85*	6	3	36	41	6	3	43	28	6	3	37	36	6	3	42	34	4	58	16.6	288.	94.0	
GYM (S) USB-30*	6	3	38	23	6	3	45	53	6	3	39	27	6	3	44	5	4	38	15.9	689.	94.0	
WHS (C) FPS-16M	6	3	39	4	6	3	45	53	6	3	39	53	6	3	44	54	5	0	27.8	188.	94.0	
TEX (S) USB-30*	6	3	41	15	6	3	48	11	6	3	42	10	6	3	47	2	4	51	44.2	561.	94.0	
MIL (S) USB-30*	6	3	45	5	6	3	51	2	6	3	46	17	6	3	49	52	3	34	8.5	444.	94.0	
PAT (C) FPQ-0	6	3	45	7	6	3	51	8	6	3	46	17	6	3	49	58	3	41	9.1	776.	94.0	
GBI (C) TPQ-18	6	3	45	38	6	3	51	56	6	3	46	55	6	3	50	39	3	43	12.9	628.	94.0	
GBM (S) USB-30*	6	3	45	39	6	3	51	56	6	3	46	56	6	3	50	39	3	43	12.8	627.	94.0	
ANG (S) USB-30*	6	3	50	16	6	3	56	36	6	3	51	29	6	3	55	23	3	54	13.2	648.	94.1	
ASC (C) TPQ-18	6	4	4	57	6	4	9	26	4	29	0	0	6	3	0	0	0	0	3.4	822.	94.2	
ACN (S) USB-30*	6	4	4	59	6	4	9	26	4	29	0	0	6	3	0	0	0	0	3.4	826.	94.2	
PRE (C) MPS-25M	6	4	15	29	6	4	22	22	6	5	2	6	6	4	20	55	4	5	11.5	677.	94.4	
TAN (C) FPS-16M	6	4	22	29	6	4	24	44	2	14	0	0	6	4	0	0	0	0	.8	871.	94.4	
GMM (S) USB-30*	6	4	46	15	6	4	53	50	6	4	47	17	6	4	52	50	5	33	22.7	733.	94.7	
HAW (S) USB-16M	6	5	1	59	6	5	5	42	3	43	0	0	6	0	0	0	0	0	2.0	734.	94.8	
HAW (S) USB-30*	6	5	1	59	6	5	5	42	3	43	0	0	6	0	0	0	0	0	2.0	734.	94.8	
CAL (C) FPS-16	6	5	9	9	6	5	15	16	6	5	10	20	6	5	14	7	3	47	10.0	751.	94.9	
GDS (S) USB-85*	6	5	10	3	6	5	15	41	5	38	6	5	11	6	5	14	0	2	9	7.8	680.	94.9
GYM (S) USB-30*	6	5	11	27	6	5	18	16	6	4	8	6	6	5	17	3	4	31	28.2	547.	95.0	
WHS (C) FPS-16M	6	5	12	38	6	5	17	52	5	14	6	5	12	6	5	15	41	1	6	6.2	727.	95.0
TEX (S) USB-30*	6	5	14	53	6	5	20	19	6	5	16	32	6	5	18	18	1	46	6.6	768.	95.0	
PRE (C) MPS-25M	6	5	49	0	6	5	56	4	6	5	50	14	6	5	54	40	4	26	11.9	902.	95.4	
TAN (C) FPS-16M	6	6	21	32	6	6	25	17	3	45	0	0	6	5	58	37	2	24	7.1	802.	95.4	
GMM (S) USB-30*	6	6	35	29	6	6	39	46	4	16	0	0	6	0	0	0	0	0	2.3	818.	95.7	
HAW (S) USB-16M	6	6	35	29	6	6	39	46	4	16	0	0	6	0	0	0	0	0	3.2	699.	95.8	
HAW (S) USB-30*	6	6	46	39	6	6	48	7	1	27	0	0	6	0	0	0	0	0	.6	756.	95.9	
PRE (C) MPS-25M	6	7	21	51	6	7	29	51	7	59	6	7	23	6	7	28	48	5	44	27.2	760.	96.4
TAN (C) FPS-16M	6	7	26	49	6	7	34	44	7	54	6	7	27	6	7	33	42	5	59	58.5	879.	96.4
HAW (C) FPS-16M	6	8	7	48	6	8	14	22	6	34	6	8	9	6	8	13	7	4	2	17.4	556.	96.8
HAW (S) USB-30*	6	8	11	9	6	8	14	22	6	34	6	8	9	6	8	13	7	4	2	17.4	556.	96.8
RED (S) USB-30*	6	8	11	9	6	8	16	53	5	43	6	8	12	6	8	15	30	2	59	6.9	485.	96.8
PRE (C) MPS-25M	6	8	55	22	6	9	2	18	6	56	6	8	56	6	9	0	53	4	11	11.7	685.	97.3
TAN (C) FPS-16M	6	9	1	4	6	9	6	9	5	5	0	0	6	0	0	0	0	0	4.0	754.	97.4	
HAW (C) FPS-16M	6	9	41	4	6	9	47	5	6	0	6	9	42	6	9	45	58	3	45	9.1	782.	97.8
HAW (S) USB-30*	6	9	41	4	6	9	47	5	6	0	6	9	42	6	9	45	58	3	45	9.1	782.	97.8

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV RANGE		MIN RANGE		REV NO		
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC			
RED (S) USB-30*	6	9	43	48	6	9	50	18	6	9	49	1	3	56	16.0	556.	287.	97.8	
ASC (C) TPQ-18	6	11	54	41	6	12	1	38	6	12	0	18	4	18	10.2	854.	487.	99.2	
ACN (S) USB-30*	6	11	54	42	6	12	1	40	6	12	0	19	4	18	10.3	857.	484.	99.2	
GWM (S) USB-30*	6	12	36	35	6	12	42	14	6	12	40	28	2	17	7.7	711.	451.	99.7	
HTV (S) USB-30*	6	12	45	56	6	12	49	42	0	0	0	0	0	0	2.3	720.	671.	99.7	
MER (S) USB-30*	6	12	54	47	6	12	55	14	0	0	0	0	0	0	.2	818.	818.	99.8	
ASC (C) TPQ-18	6	13	27	32	6	13	34	46	6	13	28	49	4	47	16.1	622.	359.	100.2	
ACN (S) USB-30*	6	13	27	34	6	13	34	47	6	13	28	51	4	45	15.9	626.	361.	100.2	
GWM (S) USB-30*	6	14	9	14	6	14	15	37	6	14	10	18	4	13	13.6	688.	322.	100.7	
HTV (S) USB-30*	6	14	17	15	6	14	24	15	6	14	18	11	4	50	28.2	590.	194.	100.7	
MER (S) USB-30*	6	14	23	53	6	14	31	5	6	14	25	4	5	6	27.2	863.	215.	100.8	
CYI (C) MPS2b	6	15	7	4	6	15	11	3	0	0	0	0	0	0	2.5	862.	733.	101.2	
CYI (S) USB-30*	6	15	7	4	6	15	11	3	0	0	0	0	0	0	2.5	862.	733.	101.2	
MER (S) USB-30*	6	15	57	9	6	16	4	15	6	15	58	12	4	44	16.1	662.	343.	101.8	
CYI (C) MPS2b	6	16	38	6	6	16	45	22	6	16	39	12	5	17	22.5	778.	254.	102.2	
CYI (S) USB-30*	6	16	38	6	6	16	45	22	6	16	39	12	5	17	22.5	778.	254.	102.2	
MAD (S) USB-85*	6	16	43	0	6	16	47	26	4	25	0	0	0	0	3.4	842.	659.	102.3	
HSK (S) USB-85*	6	17	23	34	6	17	28	0	0	0	0	0	0	0	3.1	740.	685.	102.7	
MER (S) USB-30*	6	17	31	0	6	17	37	18	6	17	32	31	3	12	7.1	878.	570.	102.8	
ANG (S) USB-30*	6	17	59	59	6	18	7	20	6	18	1	10	5	13	20.2	809.	290.	103.1	
VAN (S) USB-30*	6	18	6	10	6	18	11	56	6	18	8	8	1	49	7.0	722.	536.	103.2	
CYI (C) MPS2b	6	18	11	23	6	18	18	21	6	18	12	31	4	37	20.5	565.	261.	103.2	
CYI (S) USB-30*	6	18	11	23	6	18	18	21	6	18	12	31	4	37	20.5	565.	261.	103.2	
MAD (S) USB-35*	6	18	14	48	6	18	20	42	6	18	16	16	3	2	7.7	791.	483.	103.3	
GRO (C) FPQ-6	6	18	47	4	6	18	53	13	6	18	48	20	3	32	8.2	824.	485.	103.6	
CRO (S) USB-30*	6	18	47	4	6	18	53	13	6	18	48	20	3	32	8.2	824.	485.	103.6	
HSK (S) USB-85*	6	19	4	51	6	19	2	1	6	19	55	50	4	58	16.5	826.	340.	103.7	
MER (S) USB-30*	6	19	4	10	6	19	11	10	6	19	5	32	4	21	11.4	896.	456.	103.8	
MIL (S) USB-30*	6	19	32	4	6	19	36	20	0	0	0	0	0	0	2.7	751.	719.	104.0	
PAT (C) FPQ-6	6	19	31	56	6	19	36	25	4	29	0	0	0	0	3.0	734.	704.	104.0	
GBI (C) TPQ-18	6	19	31	29	6	19	37	22	5	52	6	19	35	2	6.8	803.	548.	104.1	
GBM (S) USB-30*	6	19	31	30	6	19	37	23	5	53	6	19	35	2	6.9	802.	547.	104.1	
BDA (C) FPS-16M	6	19	34	50	6	19	40	50	6	0	6	19	39	3	0	7.2	828.	528.	104.1
BDQ (C) FPQ-6	6	19	34	50	6	19	40	50	6	0	6	19	39	3	0	7.2	828.	528.	104.1
BDA (S) USB-30*	6	19	34	50	6	19	40	50	5	59	6	19	39	3	0	7.2	829.	528.	104.1
ANG (S) USB-30*	6	19	33	33	6	19	39	58	6	24	6	19	38	3	29	10.0	685.	449.	104.1
VAN (S) USB-30*	6	19	38	10	6	19	45	22	7	12	6	19	44	5	18	23.5	764.	239.	104.2

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV RANGE		MIN RANGE		REV NO			
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC				
CYI (C) MPS26	6	19	45	4	6	19	51	22	6	19	50	11	3	56	10.3	749.	404.	104.2		
CYI (S) USB-30*	6	19	45	4	6	19	51	22	6	19	50	11	3	56	10.3	749.	404.	104.2		
MAD (S) USB-85*	6	19	47	34	6	19	53	3	6	19	49	24	2	4	6.4	796.	508.	104.3		
CRO (C) FPQ-6	6	20	19	20	6	20	26	43	7	22	25	39	5	18	35.3	523.	179.	104.6		
CRO (S) USB-30*	6	20	19	21	6	20	26	43	7	22	25	39	5	18	35.4	522.	178.	104.6		
HSK (S) USB-85*	6	20	27	24	6	20	35	1	7	36	20	34	5	39	39.8	536.	175.	104.7		
MER (S) USB-30*	6	20	37	4	6	20	44	53	7	49	20	43	5	59	69.1	506.	128.	104.8		
TEX (S) USB-30*	6	21	0	20	6	21	6	29	6	9	21	4	59	3	1	8.3	752.	500.	105.0	
MIL (S) USB-30*	6	21	3	17	6	21	10	36	7	18	6	21	5	14	38.7	515.	163.	105.0		
PAT (C) FPQ-5	6	21	3	16	6	21	10	36	7	20	6	21	4	15	43.0	513.	150.	105.0		
GBI (C) TPQ-18	6	21	3	32	6	21	10	54	7	22	6	21	10	1	55.9	544.	125.	105.0		
GBM (S) USB-30*	6	21	3	32	6	21	10	54	7	22	6	21	10	1	55.2	546.	126.	105.0		
BDA (C) FPS-16M	6	21	7	4	6	21	14	16	7	11	6	21	13	4	5	8	39.1	577.	156.	105.1
BDQ (C) FPQ-6	6	21	7	4	6	21	14	16	7	11	6	21	13	4	5	8	39.1	577.	156.	105.1
BDA (S) USB-30*	6	21	7	4	6	21	14	16	7	11	6	21	13	4	5	8	39.0	577.	156.	105.1
VAN (S) USB-30*	6	21	11	18	6	21	18	26	7	8	6	21	17	18	5	0	44.8	525.	135.	105.2
CYI (C) MPS26	6	21	18	3	6	21	24	51	6	48	6	21	23	55	4	44	23.4	615.	217.	105.2
MAD (S) USB-85*	6	21	22	18	6	21	23	29	1	11	0	0	0	0	0	0	0	0	0	0
TAN (C) FPS-16M	6	21	40	55	6	21	41	16	0	20	0	0	0	0	0	0	0	0	0	0
CRO (S) USB-30*	6	21	53	9	6	21	59	36	6	26	6	21	54	32	3	33	8.6	801.	511.	105.6
HSK (S) USB-85*	6	22	0	21	6	22	7	55	6	27	6	21	58	6	3	33	8.7	800.	510.	105.6
MER (S) USB-30*	6	22	10	42	6	22	16	50	6	8	6	22	15	13	5	20	16.8	767.	352.	105.7
RED (S) USB-30*	6	22	22	17	6	22	25	13	2	56	0	0	0	0	0	0	1.2	866.	824.	105.9
GDS (S) USB-85*	6	22	32	21	6	22	33	53	1	31	0	0	0	0	0	0	0	0	0	0
GYM (S) USB-30*	6	22	29	55	6	22	36	57	7	2	6	22	35	57	4	47	18.1	812.	812.	105.9
TEX (S) USB-30*	6	22	32	36	6	22	39	56	6	26	6	22	33	0	3	38	11.0	649.	303.	106.0
MIL (S) USB-30*	6	22	36	31	6	22	43	26	6	55	6	22	37	33	4	55	14.6	775.	418.	106.0
PAT (C) FPS-16M	6	22	36	31	6	22	39	56	6	26	6	22	37	36	4	50	13.8	748.	338.	106.1
MIL (S) USB-30*	6	22	36	31	6	22	43	26	6	55	6	22	42	28	4	55	14.6	748.	338.	106.1
GBI (C) TPQ-18	6	22	37	14	6	22	43	42	6	28	6	22	42	26	3	58	11.5	701.	390.	106.1
BDA (S) USB-30*	6	22	37	14	6	22	43	43	6	28	6	22	42	27	3	58	11.5	700.	390.	106.1
BDQ (C) FPS-16M	6	22	40	4	6	22	47	5	7	0	6	22	46	18	5	9	28.6	802.	194.	106.1
BDQ (C) FPQ-6	6	22	40	4	6	22	47	5	7	0	6	22	46	18	5	9	28.6	802.	194.	106.1
BDA (S) USB-30*	6	22	40	3	6	22	47	4	7	1	6	22	46	18	5	9	28.7	802.	193.	106.1
VAN (S) USB-30*	6	22	44	25	6	22	51	20	6	54	6	22	45	20	5	13	21.7	738.	235.	106.2

TABLE V.-0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	C DEGREE ELEVATION ANGLE			5 DEGREE ELEVATION ANGLE			RANGE AND ELEVATION			
	ACQUISITION DAY HR MIN SEC	LOSS DAY HR MIN SEC	DURATION MIN SEC	ACQUISITION DAY HR MIN SEC	LOSS DAY HR MIN SEC	DURATION MIN SEC	MAX ELEV	MAX RANGE	MIN RANGE	REV NO
CYI (C) MPS20	6 22 51 16	6 22 57 35	6 18	6 22 52 22	6 22 56 29	4 6	13.2	683.	326.	106.2
CYI (S) USB-30*	6 22 51 16	6 22 57 35	6 18	6 22 52 22	6 22 56 29	4 6	13.2	684.	326.	106.2
TAN (C) FPS-16M	6 23 10 33	6 23 17 41	7 7	6 23 11 25	6 23 16 43	5 18	19.7	722.	262.	106.4
CRO (C) FPQ-6	6 23 26 41	6 23 33 7	6 25	6 23 28 13	6 23 31 37	3 24	7.8	898.	548.	106.6
CRO (S) USB-30*	6 23 26 41	6 23 33 7	6 26	6 23 28 13	6 23 31 37	3 24	7.8	897.	547.	106.6
HSK (S) USB-85*	6 23 33 56	6 23 39 37	5 40	6 23 36 29	6 23 37 24	0 54	5.7	821.	630.	106.7
HTV (S) USB-30*	6 23 41 9	6 23 48 29	7 19	6 23 42 16	6 23 47 14	4 57	17.4	623.	343.	106.7
HAW (C) FPS-16M	6 23 53 31	6 23 57 37	4 6	6 23 53 38	6 23 59 9	0 0	2.7	797.	732.	106.8
HAW (S) USB-30*	6 23 53 31	6 23 57 37	4 6	6 23 53 38	6 23 59 9	0 0	2.7	797.	732.	106.8
RED (S) USB-30*	6 23 52 45	7 0 0 19	7 34	6 23 53 38	6 23 59 9	5 30	39.9	830.	167.	106.9
CAL (C) FPS-16	7 0 1 26	7 0 8 10	6 33	7 0 2 56	7 0 6 49	3 52	12.4	629.	383.	106.9
GDS (S) USB-85*	7 0 2 23	7 0 8 55	6 31	7 0 3 39	7 0 7 46	4 6	11.5	732.	400.	106.9
GYS (S) USB-30*	7 0 2 56	7 0 10 2	7 5	7 0 3 51	7 0 8 55	5 4	23.6	835.	235.	107.0
WHS (C) FPS-16M	7 0 4 0	7 0 11 44	7 9	7 0 5 7	7 0 10 23	5 15	30.7	797.	188.	107.0
TEX (S) USB-30*	7 0 5 6	7 0 12 10	6 37	7 0 7 23	7 0 11 34	4 11	13.6	666.	351.	107.0
MIL (C) USB-30*	7 0 9 57	7 0 16 34	6 33	7 0 11 14	7 0 15 23	4 8	15.1	619.	316.	107.0
PAT (C) FPQ-5	7 0 10 1	7 0 16 34	6 1	7 0 11 18	7 0 15 21	4 2	14.0	632.	332.	107.0
GBI (C) TPQ-18	7 0 10 51	7 0 16 53	6 1	7 0 12 11	7 0 15 35	3 24	8.3	789.	457.	107.0
GBM (S) USB-30*	7 0 10 51	7 0 16 53	6 1	7 0 12 11	7 0 15 36	3 24	8.3	790.	458.	107.0
BDA (C) FPS-16M	7 0 13 13	7 0 20 10	6 57	7 0 14 8	7 0 19 1	4 53	42.0	565.	135.	107.1
BDQ (C) FPQ-6	7 0 13 13	7 0 20 10	6 57	7 0 14 8	7 0 19 1	4 53	42.0	565.	135.	107.1
BDA (S) USB-30*	7 0 17 41	7 0 23 46	6 4	7 0 19 4	7 0 22 25	3 21	10.8	654.	375.	107.1
VAN (S) USB-30*	7 0 40 37	7 0 47 7	6 30	7 0 41 46	7 0 45 59	4 13	11.5	838.	391.	107.1
PRE (C) MPS-25M	7 0 44 16	7 0 50 12	5 55	7 0 46 4	7 0 48 18	2 14	7.5	712.	513.	107.4
TAN (C) FPS-16M	7 0 59 28	7 1 7 2	7 34	7 0 46 4	7 0 48 18	5 26	23.9	588.	271.	107.6
CRO (S) USB-30*	7 0 59 28	7 1 7 2	7 34	7 1 0 38	7 1 6 4	5 26	24.0	913.	270.	107.6
HTV (S) USB-30*	7 1 14 24	7 1 20 57	6 33	7 1 15 53	7 1 19 36	3 42	9.1	792.	505.	107.7
HAW (C) FPS-16M	7 1 24 35	7 1 32 3	7 27	7 1 25 30	7 1 30 58	5 27	30.4	785.	200.	107.8
HAW (S) USB-30*	7 1 24 35	7 1 32 3	7 27	7 1 25 30	7 1 30 58	5 27	30.4	785.	200.	107.8
RED (S) USB-30*	7 1 26 59	7 1 32 14	5 14	7 1 25 30	7 1 30 58	0 0	4.8	860.	620.	107.8
CAL (C) FPS-16	7 1 34 4	7 1 41 6	7 1	7 1 35 10	7 1 40 3	4 53	26.1	812.	212.	107.9
GDS (S) USB-85*	7 1 35 2	7 1 41 52	6 50	7 1 35 53	7 1 40 48	4 55	26.6	834.	205.	107.9
GYM (S) USB-30*	7 1 36 28	7 1 42 52	6 23	7 1 37 42	7 1 41 39	3 57	13.0	808.	353.	108.0
WHS (C) FPS-16M	7 1 37 11	7 1 44 5	6 53	7 1 38 6	7 1 43 3	4 56	53.9	796.	117.	108.0
TEX (S) USB-30*	7 1 39 11	7 1 45 55	6 43	7 1 40 51	7 1 44 44	3 52	13.9	794.	330.	108.0
MIL (S) USB-30*	7 1 43 7	7 1 49 55	6 47	7 1 44 12	7 1 48 57	4 44	48.6	807.	120.	108.1

TABLE V.-0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO					
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC		
PAT (C) FPQ-6	7	1	43	10	7	1	49	57	7	1	44	15	7	1	48	57	4	42	43.5	802.	131.	108.1
GBI (C) TPQ-18	7	1	43	50	7	1	50	34	7	1	44	56	7	1	49	26	4	30	30.3	802.	174.	108.1
GBM (S) USB-30*	7	1	43	51	7	1	50	34	7	1	44	56	7	1	49	27	4	30	30.3	803.	174.	108.1
BDA (C) FPS-16M	7	1	46	40	7	1	52	15	7	1	48	15	7	1	50	28	2	13	7.7	794.	456.	108.1
BDQ (C) FPQ-6	7	1	46	40	7	1	52	15	7	1	48	15	7	1	50	28	2	13	7.7	794.	456.	108.1
BDA (S) USB-30*	7	1	46	40	7	1	52	15	7	1	48	15	7	1	50	28	2	13	7.7	794.	456.	108.1
ANG (S) USB-30*	7	1	48	39	7	1	54	53	7	1	49	50	7	1	53	41	3	50	11.1	709.	370.	108.1
ASC (C) TPQ-18	7	2	1	30	7	2	9	36	7	2	2	29	7	2	8	34	6	4	61.7	898.	140.	108.2
ACN (S) USB-30*	7	2	1	30	7	2	9	37	7	2	2	30	7	2	8	34	6	4	61.5	895.	140.	108.2
PRE (C) MPS-25M	7	2	12	31	7	2	22	2	7	2	13	32	7	2	20	48	7	16	42.6	973.	248.	108.4
TAN (C) FPS-16M	7	2	18	4	7	2	24	50	7	2	20	42	7	2	21	48	1	5	5.6	981.	860.	108.4
CRO (S) USB-30*	7	2	32	12	7	2	42	27	7	2	33	26	7	2	41	10	7	44	32.5	1035.	357.	108.6
GWM (S) USB-30*	7	2	45	48	7	2	53	37	7	2	47	30	7	2	52	4	4	33	9.5	971.	679.	108.7
HAW (C) FPS-16M	7	2	59	36	7	3	6	31	7	3	1	6	7	3	5	9	4	2	10.9	696.	476.	108.8
HAW (S) USB-30*	7	2	59	36	7	3	6	31	7	3	1	6	7	3	5	9	4	2	11.0	696.	476.	108.8
CAL (C) FPS-16	7	3	8	48	7	3	15	48	7	3	9	42	7	3	14	53	5	10	23.8	793.	221.	108.9
GDS (S) USB-85*	7	3	9	34	7	3	16	30	7	3	10	43	7	3	15	22	4	39	27.5	520.	196.	108.9
GVM (S) USB-30*	7	3	11	21	7	3	18	8	7	3	12	26	7	3	16	59	4	32	20.9	596.	239.	109.0
WHS (C) FPS-16M	7	3	11	55	7	3	18	50	7	3	13	8	7	3	17	53	4	44	33.1	578.	163.	109.0
TEX (S) USB-30*	7	3	14	13	7	3	21	3	7	3	15	14	7	3	20	16	5	1	30.8	628.	171.	109.0
MIL (S) USB-30*	7	3	18	5	7	3	24	2	7	3	19	37	7	3	22	31	2	53	9.6	639.	405.	109.0
PAT (C) FPQ-6	7	3	18	7	7	3	24	7	7	3	19	35	7	3	22	38	3	3	10.2	622.	392.	109.0
GBI (C) TPQ-18	7	3	18	45	7	3	24	49	7	3	20	0	7	3	23	33	3	33	9.9	729.	399.	109.0
GBM (S) USB-30*	7	3	18	46	7	3	24	50	7	3	20	0	7	3	23	34	3	33	9.9	731.	400.	109.0
ANG (S) USB-30*	7	3	23	18	7	3	29	40	7	3	24	28	7	3	28	23	3	54	10.7	751.	409.	109.1
ASC (C) TPQ-18	7	3	37	24	7	3	43	34	7	3	40	19	7	3	41	17	0	57	5.4	982.	749.	109.2
ACN (S) USB-30*	7	3	37	26	7	3	43	34	7	3	40	29	7	3	41	15	0	45	5.3	982.	751.	109.2
PRE (C) MPS-25M	7	3	47	46	7	3	57	7	7	3	49	5	7	3	55	50	6	44	17.8	1192.	519.	109.4
TAN (C) FPS-16M	7	3	53	43	7	4	0	55	7	4	0	55	7	4	0	55	2	4	6.2	992.	877.	109.4
CRO (C) FPQ-6	7	4	9	7	7	4	14	24	7	4	14	24	7	4	14	24	0	0	2.8	1037.	1026.	109.5
CRO (S) USB-30*	7	4	9	8	7	4	14	24	7	4	14	24	7	4	14	24	0	0	2.8	1038.	1026.	109.5
GWM (S) USB-30*	7	4	19	54	7	4	28	53	7	4	21	11	7	4	27	54	6	42	39.0	851.	234.	109.7
HAW (C) FPS-16M	7	4	36	21	7	4	40	30	7	4	30	0	7	4	40	0	0	0	2.7	776.	700.	109.8
HAW (S) USB-30*	7	4	36	21	7	4	40	30	7	4	30	0	7	4	40	0	0	0	2.7	776.	700.	109.8
CAL (C) FPS-16	7	4	43	47	7	4	49	50	7	4	45	12	7	4	48	28	3	15	10.4	659.	385.	109.9
GDS (S) USB-85*	7	4	44	49	7	4	50	9	7	4	46	36	7	4	47	59	1	23	6.4	752.	496.	109.9

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
 (a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO	
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	RANGE	MIN	REV
GYM (S) USB-30*	7	4	46	8	7	4	52	48	7	4	51	45	4	29	21.0	605.	232.	109.9
WHS (C) FPS-16M	7	4	47	27	7	4	52	16	7	4	51	0	0	0	4.3	620.	570.	109.9
TEX (S) USB-30*	7	4	49	40	7	4	54	46	7	4	51	0	0	0	4.7	580.	568.	110.0
PRE (C) MPS-25M	7	5	22	56	7	5	32	47	7	5	31	29	7	22	21.7	1135.	471.	110.4
TAN (C) FPS-16M	7	5	28	11	7	5	37	41	7	5	36	18	6	43	16.4	1098.	577.	110.4
GWM (S) USB-3C*	7	5	57	2	7	6	1	55	7	5	0	0	0	0	3.3	994.	799.	110.6
HAW (S) FPS-16M	7	6	11	39	7	6	16	12	7	6	0	0	0	0	3.4	650.	632.	110.8
HAW (S) USB-30*	7	6	11	39	7	6	16	12	7	6	0	0	0	0	3.4	649.	632.	110.8
PRE (C) MPS-25M	7	6	57	41	7	7	8	17	7	7	7	3	8	72.2	957.	215.	111.4	
TAN (C) FPS-16M	7	7	2	48	7	7	13	9	7	7	12	9	8	16	40.0	1155.	304.	111.4
HAW (C) FPS-16M	7	7	45	41	7	7	52	23	7	7	51	9	4	17	22.7	541.	216.	111.8
HAW (S) USB-3C*	7	7	45	41	7	7	52	23	7	7	51	9	4	17	22.8	541.	216.	111.8
RED (S) USB-3C*	7	7	48	56	7	7	55	2	7	7	53	52	3	46	15.9	757.	402.	111.8
PRE (C) MPS-25M	7	8	33	2	7	8	42	21	7	8	40	58	6	36	9.7	1192.	581.	112.3
TAN (C) FPS-16M	7	8	38	54	7	8	46	20	7	8	44	17	3	23	7.3	1158.	806.	112.4
HAW (C) FPS-16M	7	9	20	45	7	9	26	34	7	9	25	6	2	53	8.3	729.	444.	112.8
HAW (S) USB-30*	7	9	20	45	7	9	26	34	7	9	25	6	2	53	8.3	729.	444.	112.8
RED (S) USB-30*	7	9	23	30	7	9	29	51	7	9	28	28	3	44	10.7	722.	408.	112.8
ASC (C) TPQ-18	7	10	2	24	7	10	8	2	7	10	0	0	0	0	3.4	1123.	1018.	113.2
ACN (S) USB-30*	7	10	2	25	7	10	8	3	7	10	0	0	0	0	3.4	1125.	1017.	113.2
ASC (C) TPQ-18	7	11	35	28	7	11	45	24	7	11	44	18	7	34	27.6	1089.	388.	114.2
ACN (S) USB-30*	7	11	35	29	7	11	45	25	7	11	44	19	7	34	27.8	1084.	385.	114.2
GWM (S) USB-3C*	7	12	19	14	7	12	25	27	7	12	24	15	3	53	10.4	754.	393.	114.7
HTV (S) USB-30*	7	12	27	45	7	12	33	46	7	12	31	58	2	29	7.4	798.	541.	114.7
MER (S) USB-3C*	7	12	34	58	7	12	40	43	7	12	38	6	6	45	4.9	909.	715.	114.8
ASC (C) TPQ-18	7	13	10	43	7	13	19	42	7	13	18	26	6	21	16.6	1109.	525.	115.2
ACN (S) USB-3C*	7	13	10	45	7	13	19	43	7	13	18	27	6	20	16.5	1113.	527.	115.2
GWM (S) USB-3C*	7	13	53	52	7	14	0	6	7	13	58	34	3	15	10.0	683.	426.	115.7
HTV (S) USB-3C*	7	14	1	32	7	14	9	15	7	14	8	6	5	28	21.5	970.	309.	115.7
MER (S) USB-30*	7	14	7	48	7	14	16	52	7	14	15	43	6	45	31.1	720.	280.	115.8
CYI (C) MPS26	7	14	51	21	7	14	58	29	7	14	56	54	3	54	9.1	778.	616.	116.2
HTV (S) USB-3C*	7	14	51	21	7	14	58	29	7	14	56	54	3	54	9.1	778.	616.	116.2
MER (S) USB-3C*	7	15	42	28	7	15	41	17	7	15	40	0	0	0	.2	1012.	1012.	116.7
MER (S) USB-3C*	7	15	42	48	7	15	51	54	7	15	50	36	6	41	21.8	1006.	413.	116.8
ANG (S) USB-30*	7	16	15	4	7	16	21	33	7	16	19	11	0	27	5.1	1134.	834.	117.1
VAN (S) USB-3C*	7	16	23	4	7	16	24	17	7	16	23	0	0	0	.1	1046.	1046.	117.1
CYI (C) MPS25	7	16	25	17	7	16	33	35	7	16	32	42	6	19	43.6	817.	191.	117.2

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		RANGE AND ELEVATION		
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	MIN	REV
CYI (S) USB-30*	7	16	25	17	7	16	33	35	7	16	32	42	6	19	43.6	191.	117.2
MAD (S) USB-35*	7	16	29	50	7	16	35	50	7	16	32	52	1	50	6.7	596.	117.3
HSK (S) USB-85*	7	17	9	57	7	17	17	44	7	17	16	11	4	45	1002.	593.	117.7
MER (S) USB-30*	7	17	18	6	7	17	27	12	7	17	25	50	6	21	1177.	573.	117.8
GBI (C) TPQ-18	7	17	50	57	7	17	51	13	0	0	0	0	0	0	1068.	1068.	118.1
GBM (S) USB-30*	7	17	50	55	7	17	51	15	0	0	0	0	0	0	1067.	1067.	118.1
BDA (C) FPS-16M	7	17	52	41	7	17	56	9	0	0	0	0	0	0	1005.	938.	118.1
BDA (S) USB-30*	7	17	52	41	7	17	56	9	3	28	0	0	0	0	1005.	938.	118.1
ANG (S) USB-30*	7	17	52	41	7	17	56	9	3	28	0	0	0	0	1005.	938.	118.1
VAN (S) USB-30*	7	17	54	27	7	17	48	19	0	0	0	0	0	0	948.	163.	118.1
CYI (S) USB-30*	7	17	54	27	7	18	2	9	7	42	7	18	0	5	906.	450.	118.2
MAD (S) USB-85*	7	18	0	40	7	18	8	2	7	22	7	18	6	53	862.	341.	118.2
CRO (S) USB-30*	7	18	3	51	7	18	10	19	6	27	7	18	8	54	673.	439.	118.3
CRO (S) USB-30*	7	18	35	37	7	18	44	4	8	27	7	18	42	49	879.	320.	118.6
HSK (S) USB-85*	7	18	35	37	7	18	44	4	8	27	7	18	42	49	878.	321.	118.6
MER (S) USB-30*	7	18	43	31	7	18	53	3	9	31	7	18	51	54	752.	356.	118.7
TEX (S) USB-30*	7	19	20	12	7	19	3	0	9	56	7	19	1	48	1160.	447.	118.8
MIL (S) USB-30*	7	19	21	18	7	19	23	15	3	2	0	0	0	0	1034.	1010.	119.0
PAT (C) FPQ-5	7	19	21	15	7	19	28	49	7	33	7	19	27	25	749.	553.	119.1
GBM (S) USB-30*	7	19	21	13	7	19	29	22	8	8	7	19	27	29	734.	536.	119.1
BDA (C) FPS-16M	7	19	24	53	7	19	32	39	7	46	7	19	28	17	920.	408.	119.1
BDA (S) USB-30*	7	19	24	53	7	19	32	39	7	46	7	19	28	18	918.	407.	119.1
ANG (S) USB-30*	7	19	24	22	7	19	31	17	6	54	7	19	31	29	982.	382.	119.1
VAN (S) USB-30*	7	19	28	57	7	19	36	50	5	52	7	19	35	53	982.	383.	119.1
CYI (S) USB-30*	7	19	36	3	7	19	42	45	6	42	7	19	29	45	910.	627.	119.1
MAD (S) USB-35*	7	19	36	3	7	19	44	1	5	19	7	19	41	36	938.	122.	119.2
CRO (S) USB-30*	7	20	10	2	7	20	19	8	9	5	7	20	17	59	673.	358.	119.2
HSK (S) USB-85*	7	20	17	55	7	20	28	4	10	9	7	20	17	59	1130.	348.	119.3
MER (S) USB-30*	7	20	27	43	7	20	38	15	10	32	7	20	26	51	1004.	347.	119.6
GYM (S) USB-30*	7	20	50	2	7	20	55	34	6	32	7	20	37	2	957.	244.	119.7
WHS (C) FPS-16M	7	20	52	12	7	20	57	24	5	12	7	20	54	22	950.	229.	119.8
																820.	120.0

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV RANGE		MIN RANGE		REV NO	
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC		
TEX (S) USB-30*	7	20	51	48	7	21	0	7	7	20	58	56	7	20	16.9	803.	410.	120.0.
MIL (S) USB-30*	7	20	55	25	7	21	3	44	8	19	2	49	7	21	37.4	782.	213.	120.1.
PAT (C) FPQ-6	7	20	55	25	7	21	3	44	8	19	2	48	7	21	37.5	783.	212.	120.1.
GBI (C) TPQ-18	7	20	55	50	7	21	4	5	8	14	8	8	7	21	23.7	747.	288.	120.1.
GBM (S) USB-30*	7	20	55	51	7	21	4	5	8	14	8	8	7	21	23.8	749.	288.	120.1.
BDA (C) FPS-16M	7	20	59	24	7	21	7	11	7	46	7	21	6	25	48.3	848.	157.	120.1.
BDQ (C) FPQ-6	7	20	59	24	7	21	7	11	7	46	7	21	6	25	48.3	848.	157.	120.1.
BDA (S) USB-30*	7	21	3	55	7	21	11	16	7	20	9	29	7	21	27.7	792.	157.	120.1.
VAN (S) USB-30*	7	21	10	58	7	21	17	48	6	50	7	21	16	53	25.4	795.	200.	120.2.
CYI (C) MPS26	7	21	10	58	7	21	17	48	6	50	7	21	16	53	25.4	795.	200.	120.2.
CYI (S) USB-30*	7	21	31	17	7	21	37	19	6	1	7	21	35	26	5.8	936.	636.	120.4.
TAN (C) FPS-16M	7	21	45	24	7	21	54	19	8	54	7	21	52	51	14.8	956.	555.	120.6.
CRO (C) FPQ-6	7	21	45	24	7	21	54	19	8	54	7	21	52	51	14.8	955.	554.	120.6.
CRO (S) USB-30*	7	21	52	38	7	22	2	38	9	59	7	22	1	20	27.3	1076.	399.	120.7.
HSK (S) USB-85*	7	22	1	41	7	22	9	8	7	27	7	22	7	5	6.8	1179.	859.	120.8.
HTV (S) USB-30*	7	22	3	34	7	22	11	29	7	55	7	22	9	41	8.4	1107.	791.	120.8.
MER (S) USB-30*	7	22	13	39	7	22	21	50	8	10	7	22	20	22	11.0	942.	640.	120.9.
RED (S) USB-30*	7	22	23	31	7	22	29	31	5	59	7	22	27	17	5.4	900.	719.	121.0.
CAL (C) FPS-16	7	22	24	12	7	22	30	25	6	13	7	22	28	10	6.4	881.	680.	121.0.
GDS (S) USB-35*	7	22	25	10	7	22	32	1	8	29	7	22	30	57	28.7	749.	275.	121.0.
GYM (S) USB-30*	7	22	26	37	7	22	34	42	8	5	7	22	33	40	37.2	901.	202.	121.0.
WHS (C) FPS-16M	7	22	30	50	7	22	38	12	7	21	7	22	31	57	18.6	889.	312.	121.1.
TEX (S) USB-30*	7	22	30	53	7	22	38	11	7	18	7	22	36	59	17.5	897.	327.	121.1.
MIL (S) USB-30*	7	22	31	34	7	22	38	26	6	51	7	22	37	7	12.4	641.	415.	121.1.
PAT (C) FPQ-6	7	22	31	34	7	22	38	26	6	51	7	22	37	7	12.3	642.	415.	121.1.
GBM (S) USB-30*	7	22	34	27	7	22	41	48	7	21	7	22	40	53	24.3	761.	230.	121.1.
BDA (C) FPS-16M	7	22	34	27	7	22	41	48	7	21	7	22	40	53	24.3	761.	230.	121.1.
BDA (S) USB-30*	7	22	34	27	7	22	41	48	7	21	7	22	40	53	24.3	761.	230.	121.1.
BDQ (C) FPQ-6	7	22	38	58	7	22	45	54	6	55	7	22	44	57	27.4	815.	193.	121.2.
VAN (S) USB-30*	7	22	46	5	7	22	51	38	5	32	7	22	49	57	7.5	701.	457.	121.2.
CYI (C) MPS26	7	22	46	5	7	22	51	38	5	32	7	22	49	57	7.5	701.	457.	121.2.
CYI (S) USB-30*	7	23	3	58	7	23	7	53	3	55	7	23	12	1	2.0	884.	821.	121.4.
PRE (C) MPS-25M	7	23	4	36	7	23	13	5	8	29	7	23	12	1	39.2	833.	218.	121.4.
TAN (C) FPS-16M	7	23	20	27	7	23	30	2	9	35	7	23	28	41	19.6	1030.	498.	121.6.
CRO (C) FPQ-6	7	23	20	27	7	23	30	2	9	35	7	23	28	41	19.6	1029.	497.	121.6.
CRO (S) USB-30*	7	23	20	27	7	23	30	2	9	35	7	23	28	41	19.6	1029.	497.	121.6.

-----0 DEGREE ELEVATION ANGLE-----5 DEGREE ELEVATION ANGLE-----RANGE AND ELEVATION----

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN REV		
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	REV	NO
HSK (S) USB-85*	7	23	28	1	7	23	35	56	7	23	29	56	7	23	34	2	823.
HTV (S) USB-30*	7	23	35	18	7	23	45	29	7	23	36	26	7	23	44	28	1066.
HAW (C) FPS-16M	7	23	47	17	7	23	55	22	7	23	48	42	7	23	54	6	49.1
HAW (S) USB-30*	7	23	47	17	7	23	55	22	7	23	48	42	7	23	54	6	1061.
RED (S) USB-30*	7	23	47	50	7	23	56	53	7	23	49	9	7	23	55	54	23
CAL (C) FPS-16	7	23	57	1	8	0	4	44	7	23	58	7	8	0	3	40	13.4
GDS (S) USB-85*	7	23	57	47	8	0	5	27	7	23	59	7	8	0	4	30	970.
GYM (S) USB-30*	7	23	58	47	8	0	6	26	7	23	59	54	5	21	22.3	906.	847.
WHS (C) FPS-16M	7	23	59	49	8	0	7	36	7	23	59	54	5	21	22.3	906.	290.
TEX (S) USB-30*	8	0	2	9	8	0	9	4	7	47	8	0	5	15	15	15	121.9
MIL (S) USB-30*	8	0	6	2	8	0	12	55	6	54	8	0	6	45	757.	741.	338.
PAT (C) FPQ-6	8	0	6	6	8	0	12	55	6	49	8	0	7	18	16.9	662.	229.
GBI (C) TPQ-18	8	0	6	56	8	0	13	20	6	23	8	0	11	55	32.2	122.0	406.
GBM (S) USB-30*	8	0	6	57	8	0	13	20	6	23	8	0	12	12	10.1	831.	286.
BDA (C) FPS-16M	8	0	9	22	8	0	16	17	6	54	8	0	10	25	15.7	675.	229.
BDA (S) USB-30*	8	0	9	22	8	0	16	17	6	54	8	0	10	25	15.7	675.	229.
ANG (S) USB-30*	8	0	13	1	8	0	16	11	3	10	8	0	15	6	29.1	557.	406.
VAN (S) USB-30*	8	0	14	17	8	0	19	21	5	4	8	0	17	21	1.8	791.	741.
ASC (C) TPQ-18	8	0	26	12	8	0	31	24	5	11	0	0	0	0	5.0	841.	610.
ACN (S) USB-30*	8	0	35	55	8	0	44	40	8	45	8	0	29	8	5.0	836.	606.
PRE (C) MPS-25M	8	0	40	14	8	0	47	40	7	26	8	0	41	55	25.8	748.	303.
CRO (C) FPQ-6	8	0	55	10	8	1	5	35	10	25	8	0	56	13	8.4	1020.	669.
CRO (S) USB-30*	8	0	55	10	8	1	5	35	10	25	8	0	56	13	43.2	1105.	289.
HTV (S) USB-30*	8	1	11	21	8	1	18	51	7	30	8	1	17	9	43.3	1104.	288.
HAW (C) FPS-16M	8	1	21	37	8	1	30	18	8	40	8	1	22	53	8.2	898.	747.
HAW (S) USB-30*	8	1	21	37	8	1	30	18	8	40	8	1	22	53	26.3	746.	292.
RED (S) USB-30*	8	1	24	49	8	1	30	5	5	15	8	1	29	6	26.3	746.	292.
CAL (C) FPS-16	8	1	31	37	8	1	39	6	7	29	8	1	38	21	3.9	977.	783.
GDS (S) USB-85*	8	1	32	30	8	1	39	57	7	27	8	1	38	57	37.7	607.	177.
GYM (S) USB-30*	8	1	34	12	8	1	40	59	6	46	8	1	38	57	25.6	793.	229.
WHS (C) FPS-16M	8	1	34	57	8	1	42	12	7	15	8	1	35	30	13.1	721.	380.
TEX (S) USB-30*	8	1	37	20	8	1	44	8	6	47	8	1	41	5	40.4	851.	151.
MIL (S) USB-30*	8	1	40	57	8	1	47	46	6	49	8	1	41	46	18.0	604.	278.
PAT (C) FPQ-6	8	1	41	0	8	1	47	50	6	49	8	1	41	49	25.4	789.	200.
GBI (C) TPQ-18	8	1	41	32	8	1	48	31	6	58	8	1	42	37	80.6	495.	91.

TABLE V.--0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		RANGE AND ELEVATION									
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	MIN	REV							
TAN (C) FPS-16M	8	5	25	43	8	5	35	42	8	5	27	3	8	5	34	28	7	25	24.1	1083.	441.	125.4		
GHM (S) USB-30*	8	5	56	27	8	5	58	11	8	5	0	0	0	0	0	0	0	0	0	0	7	943.	125.6	
HAW (C) FPS-16M	8	6	9	3	8	6	14	28	8	6	10	49	8	6	12	10	1	21	5.9	821.	533.	125.8		
HAW (S) USB-30*	8	6	9	3	8	6	14	28	8	6	10	49	8	6	12	10	1	21	5.9	821.	533.	125.8		
RED (S) USB-30*	8	6	13	44	8	6	15	42	8	6	10	49	8	6	12	10	0	0	0	0	9	738.	125.8	
PRE (C) MPS-25M	8	6	55	22	8	7	5	47	8	6	56	29	8	7	4	40	8	10	49.7	1057.	260.	126.4		
TAN (C) FPS-16M	8	7	0	28	8	7	10	38	8	7	1	38	8	7	9	25	7	46	33.0	1073.	347.	126.4		
HAW (C) FPS-16M	8	7	43	16	8	7	50	5	8	7	44	10	8	7	49	2	4	52	38.2	590.	139.	126.8		
HAW (S) USB-30*	8	7	43	16	8	7	50	5	8	7	44	10	8	7	49	2	4	52	38.2	591.	139.	126.8		
RED (S) USB-30*	8	7	46	13	8	7	52	57	8	7	47	15	8	7	52	1	4	45	25.7	611.	194.	126.8		
PRE (C) MPS-25M	8	8	31	3	8	8	39	4	8	8	32	48	8	8	37	22	4	34	9.0	1188.	766.	127.3		
TAN (C) FPS-16M	8	8	37	55	8	8	42	10	8	8	0	0	0	0	0	0	0	0	1.7	1075.	1065.	127.4		
HAW (S) USB-30*	8	9	19	14	8	9	22	54	8	9	0	0	0	0	0	0	0	0	2.5	651.	651.	127.8		
HAW (S) USB-30*	8	9	19	15	8	9	22	54	8	9	0	0	0	0	0	0	0	0	2.7	675.	659.	127.8		
RED (S) USB-30*	8	9	21	59	8	9	26	16	8	9	0	0	0	0	0	0	0	0	2.7	675.	659.	127.8		
ASC (C) TPQ-18	8	9	59	2	8	10	6	43	8	10	0	0	0	8	10	4	39	3	39	7.5	1182.	829.	128.2	
ACN (S) USB-30*	8	9	59	3	8	10	6	44	8	10	1	0	0	8	10	4	41	3	40	7.5	1185.	828.	128.2	
GHM (S) USB-30*	8	10	44	19	8	10	45	37	8	10	0	0	0	0	0	0	0	0	0	0	7	749.	749.	128.7
ASC (C) TPQ-18	8	11	32	42	8	11	42	57	8	11	33	48	8	11	41	54	8	5	42.4	1117.	284.	129.2		
ACN (S) USB-30*	8	11	32	44	8	11	42	58	8	11	33	50	8	11	41	55	8	5	41.9	1121.	287.	129.2		
GHM (S) USB-30*	8	12	16	21	8	12	23	3	8	12	17	19	8	12	22	12	4	53	24.6	637.	201.	129.7		
HTV (S) USB-30*	8	12	24	37	8	12	31	36	8	12	25	37	8	12	30	29	4	51	14.6	804.	341.	129.7		
MER (S) USB-30*	8	12	31	35	8	12	38	38	8	12	32	55	8	12	37	7	4	12	11.0	727.	500.	129.8		
ASC (S) USB-30*	8	13	8	44	8	13	16	16	8	13	10	39	8	13	14	21	3	42	7.7	1113.	768.	130.2		
ACN (S) USB-30*	8	13	8	46	8	13	16	17	8	13	10	41	8	13	14	21	3	40	7.7	1117.	770.	130.2		
GHM (S) USB-30*	8	13	52	20	8	13	56	9	8	13	0	0	0	0	0	0	0	0	2.1	706.	702.	130.6		
HTV (S) USB-30*	8	13	59	31	8	14	6	3	8	14	0	57	8	14	4	20	3	22	8.5	802.	545.	130.7		
MER (S) USB-30*	8	14	5	17	8	14	14	6	8	14	6	13	8	14	12	54	6	41	49.1	880.	191.	130.8		
CVI (C) MPS26	8	14	47	53	8	14	56	13	8	14	49	17	8	14	54	57	5	40	14.9	855.	471.	131.2		
CVI (S) USB-30*	8	14	47	53	8	14	56	13	8	14	49	17	8	14	54	57	5	40	14.9	855.	471.	131.2		
MAD (S) USB-85*	8	14	53	43	8	14	57	53	8	14	0	0	0	0	0	0	0	0	2.2	881.	873.	131.3		
HSK (S) USB-65*	8	15	35	56	8	15	37	42	8	15	0	0	0	0	0	0	0	0	0	0	7	945.	131.7	
MER (S) USB-30*	8	15	40	21	8	15	49	0	8	15	41	36	8	15	47	38	6	1	15.8	900.	507.	131.8		
ANG (S) USB-30*	8	16	11	16	8	16	19	35	8	16	12	45	8	16	18	12	5	26	12.4	989.	601.	132.1		
VAN (S) USB-30*	8	16	18	11	8	16	23	53	8	16	0	0	0	0	0	0	0	0	4.5	955.	815.	132.2		
CVI (C) MPS26	8	16	22	24	8	16	30	51	8	16	23	31	8	16	29	53	6	21	50.0	893.	173.	132.2		
CVI (S) USB-30*	8	16	22	24	8	16	30	51	8	16	23	31	8	16	29	53	6	21	50.0	893.	173.	132.2		

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION			LOSS			DURATION			ACQUISITION			LOSS			DURATION			MAX ELEV RANGE			MIN RANGE			REV NO						
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	DAY	HR	MIN	SEC	MAX	ELEV	RANGE	MIN	RANGE	MIN	RANGE
MAD (S) USB-85*	8	16	26	32	8	16	33	9	6	37	8	16	28	8	16	31	46	3	37	8	16	31	46	8	2	881.	572.	132.3			
CRO (C) FPQ-9	8	17	0	14	8	17	4	46	4	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	785.	766.	132.6			
CRO (S) USB-30*	8	17	0	15	8	17	4	46	4	31	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	785.	766.	132.6				
HSK (S) USB-85*	8	17	6	49	8	17	14	56	8	7	8	17	7	58	8	17	13	36	5	37	8	17	13	36	15.6	929.	470.	132.7			
MER (S) USB-85*	8	17	15	29	8	17	24	32	9	2	8	17	16	49	8	17	23	4	6	15	8	17	23	4	14.9	918.	559.	132.8			
MIL (S) USB-30*	8	17	46	14	8	17	49	23	3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	1047.	1032.	133.1				
PAT (C) FPQ-6	8	17	46	0	8	17	49	31	3	30	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	1032.	1014.	133.1				
GBI (C) TPQ-18	8	17	44	57	8	17	50	50	5	53	0	0	0	0	0	0	0	0	0	0	0	0	0	4.0	1093.	876.	133.1				
GBM (S) USB-30*	8	17	44	57	8	17	50	51	5	53	0	0	0	0	0	0	0	0	0	0	0	0	0	4.1	1093.	874.	133.1				
BDA (C) FPS-16M	8	17	48	15	8	17	54	33	6	18	8	17	50	39	8	17	51	57	1	17	8	17	51	57	5.8	949.	756.	133.1			
BDQ (C) FPQ-9	8	17	48	15	8	17	54	33	6	18	8	17	50	39	8	17	51	57	1	17	8	17	51	57	5.8	949.	756.	133.1			
BDA (S) USB-30*	8	17	48	15	8	17	54	33	6	18	8	17	50	40	8	17	51	57	1	16	8	17	51	57	5.8	949.	757.	133.1			
ANG (S) USB-30*	8	17	45	27	8	17	54	36	9	9	8	17	46	40	8	17	53	29	6	49	8	17	53	29	29.1	762.	301.	133.2			
VAN (S) USB-30*	8	17	51	13	8	17	59	25	8	12	8	17	52	23	8	17	58	27	6	3	8	17	58	27	24.2	881.	317.	133.2			
CYI (C) MPS23	8	17	57	53	8	18	5	9	7	15	8	17	59	15	8	18	4	7	4	52	8	18	4	7	14.9	857.	388.	133.2			
CYI (S) USB-30*	8	17	57	53	8	18	5	9	7	15	8	17	59	15	8	18	4	7	4	52	8	18	4	7	14.9	857.	388.	133.2			
MAD (S) USB-85*	8	18	0	51	8	18	7	19	6	27	8	18	2	15	8	18	6	2	3	47	8	18	6	2	8.8	870.	483.	133.3			
CRO (C) FPQ-9	8	18	32	40	8	18	41	5	8	25	8	18	33	33	8	18	40	2	6	28	8	18	40	2	43.8	837.	198.	133.6			
CRO (S) USB-30*	8	18	32	40	8	18	41	5	8	25	8	18	33	33	8	18	40	2	6	28	8	18	40	2	43.8	838.	198.	133.6			
HSK (S) USB-85*	8	18	40	37	8	18	50	6	9	28	8	18	41	37	8	18	48	52	7	14	8	18	48	52	45.4	951.	235.	133.7			
MER (S) USB-30*	8	18	50	5	8	19	0	16	10	11	8	18	51	17	8	18	59	0	7	42	8	18	59	0	37.4	964.	311.	133.8			
TEX (S) USB-30*	8	19	15	18	8	19	21	44	6	26	8	19	18	12	8	19	19	25	1	13	8	19	19	25	5.6	951.	786.	134.0			
MIL (S) USB-30*	8	19	17	45	8	19	26	14	8	28	8	19	19	8	8	19	25	0	5	52	8	19	25	0	16.8	818.	431.	134.1			
PAT (C) FPQ-9	8	19	17	43	8	19	26	15	8	32	8	19	19	5	8	19	25	1	5	56	8	19	25	1	17.6	808.	418.	134.1			
GBI (C) TPQ-18	8	19	17	51	8	19	26	41	8	50	8	19	19	9	8	19	25	37	6	27	8	19	25	37	30.6	827.	276.	134.1			
GBM (S) USB-30*	8	19	17	51	8	19	26	42	8	50	8	19	19	9	8	19	25	37	6	27	8	19	25	37	30.8	828.	275.	134.1			
ANG (S) USB-30*	8	19	22	7	8	19	28	0	5	53	8	19	24	55	8	19	25	18	0	22	8	19	25	18	5.3	885.	727.	134.1			
BDA (C) FPS-16M	8	19	21	33	8	19	29	53	8	19	8	19	22	49	8	19	28	50	6	0	8	19	28	50	22.7	781.	331.	134.1			
BDQ (C) FPQ-9	8	19	21	33	8	19	29	53	8	19	8	19	22	49	8	19	28	50	6	0	8	19	28	50	22.7	781.	331.	134.1			
BDA (S) USB-30*	8	19	21	33	8	19	29	53	8	19	8	19	22	49	8	19	28	50	6	0	8	19	28	50	22.7	782.	331.	134.1			
VAN (S) USB-30*	8	19	25	52	8	19	33	58	8	5	8	19	27	8	8	19	32	57	5	49	8	19	32	57	25.3	725.	260.	134.2			
CYI (C) MPS23	8	19	33	11	8	19	40	4	6	53	8	19	34	17	8	19	38	54	4	36	8	19	38	54	16.8	632.	306.	134.2			
CYI (S) USB-30*	8	19	33	11	8	19	40	4	6	53	8	19	34	17	8	19	38	54	4	36	8	19	38	54	16.8	632.	306.	134.2			
MAD (S) USB-85*	8	19	35	56	8	19	40	32	8	39	0	0	0	0	0	0	0	0	0	0	8	19	38	54	3.5	683.	635.	134.2			
CRO (C) FPQ-9	8	20	7	25	8	20	16	5	8	39	8	20	8	34	8	20	14	45	6	11	8	20	14	45	19.8	924.	403.	134.6			
CRO (S) USB-30*	8	20	7	25	8	20	16	5	8	40	8	20	8	34	8	20	14	46	6	11	8	20	14	46	19.9	923.	402.	134.6			
HSK (S) USB-35*	8	20	15	5	8	20	24	53	9	48	8	20	16	3	8	20	23	43	7	39	8	20	23	43	37.3	1095.	292.	134.7			

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
 (a) CSM-Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO									
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC				
MER (S) USB-30*	8	20	24	54	8	20	34	57	8	20	26	1	8	20	33	48	8	20	33	48	7	47	28.0	1144.	393.	134.8		
GYM (S) USB-30*	8	20	46	9	8	20	54	10	8	20	47	37	8	20	52	48	8	20	52	48	5	10	11.9	924.	553.	135.0		
WHS (C) FPS-16M	8	20	48	3	8	20	55	6	8	20	49	53	8	20	53	32	8	20	53	32	3	38	8.1	901.	665.	135.0		
TEX (S) USB-30*	8	20	48	30	8	20	57	11	8	20	49	38	8	20	56	18	8	20	56	18	6	40	42.6	956.	213.	135.0		
MIL (S) USB-30*	8	20	52	24	8	21	0	47	8	20	53	31	8	20	59	48	8	20	59	48	6	16	45.1	885.	184.	135.1		
PAT (C) FPQ-6	8	20	52	24	8	21	0	47	8	22	53	31	8	20	59	47	8	20	59	47	6	15	41.7	887.	195.	135.1		
GBI (C) TPQ-18	8	20	53	1	8	21	1	0	8	20	54	8	8	21	0	2	8	21	0	2	5	54	25.4	1004.	288.	135.1		
GBM (S) USB-30*	8	20	53	2	8	21	1	0	7	58	8	9	8	21	0	3	8	21	0	3	5	53	25.3	1006.	288.	135.1		
BDA (C) FPS-16M	8	20	56	21	8	21	4	22	8	1	8	20	57	26	8	21	3	14	8	21	3	14	39.7	821.	181.	135.1		
BDO (C) FPQ-6	8	20	56	21	8	21	4	22	8	1	8	20	57	26	8	21	3	14	8	21	3	14	39.7	821.	181.	135.1		
BDA (S) USB-30*	8	20	56	21	8	21	4	22	8	1	8	20	57	26	8	21	3	14	8	21	3	14	39.7	820.	181.	135.1		
VAN (S) USB-30*	8	21	1	1	8	21	8	28	7	26	8	21	1	57	8	21	7	21	8	21	7	21	48.9	895.	139.	135.2		
CYI (C) MPS2b	8	21	7	50	8	21	14	48	6	58	8	21	9	4	8	21	13	52	8	21	13	52	47	41.2	565.	138.	135.2	
CYI (S) USB-30*	8	21	7	50	8	21	14	48	6	58	8	21	9	4	8	21	13	52	8	21	13	52	47	41.2	565.	138.	135.2	
TAN (C) FPS-16M	8	21	27	36	8	21	34	45	7	8	8	21	28	48	8	21	33	25	8	21	33	25	47	15.0	633.	377.	135.4	
CRO (C) FPQ-6	8	21	42	39	8	21	51	16	8	36	8	21	43	59	8	21	49	51	8	21	49	51	52	14.1	1133.	563.	135.6	
CRO (S) USB-30*	8	21	42	39	8	21	51	16	8	37	8	21	43	59	8	21	49	51	8	21	49	51	52	14.2	1132.	562.	135.6	
MSK (S) USB-85*	8	21	49	41	8	21	59	8	9	27	8	21	51	0	8	21	57	54	8	21	57	54	6	53	18.6	1185.	514.	135.7
HTV (S) USB-30*	8	21	57	59	8	22	6	52	8	52	8	21	59	31	8	22	5	23	8	22	5	23	5	51	12.2	996.	666.	135.8
MER (S) USB-30*	8	22	1	34	8	22	7	6	5	31	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	1043.	1016.	135.8	
HAW (C) FPS-16M	8	22	12	4	8	22	15	28	3	24	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	1074.	1055.	135.8	
HAW (S) USB-30*	8	22	12	4	8	22	15	28	3	23	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	1074.	1055.	135.8	
RED (S) USB-30*	8	22	9	57	8	22	19	9	9	11	8	22	11	16	8	22	18	5	8	22	18	5	6	48	23.7	1061.	392.	135.9
CAL (C) FPS-16	8	22	19	36	8	22	26	54	7	17	8	22	21	11	8	22	25	31	8	22	25	31	4	19	10.3	793.	571.	135.9
GDS (S) USB-85*	8	22	20	23	8	22	27	46	7	23	8	22	21	54	8	22	26	22	8	22	26	22	4	28	9.8	917.	562.	136.0
GYM (S) USB-30*	8	22	20	20	8	22	28	57	8	37	8	22	21	27	8	22	28	2	8	22	28	2	6	34	68.1	895.	150.	136.0
WHS (C) FPS-16M	8	22	21	46	8	22	30	10	8	23	8	22	23	4	8	22	29	2	8	22	29	2	5	57	24.1	752.	297.	136.0
TEX (S) USB-30*	8	22	23	36	8	22	31	37	8	1	8	22	24	53	8	22	30	38	8	22	30	38	5	44	21.5	806.	326.	136.0
MIL (S) USB-30*	8	22	27	47	8	22	35	6	7	18	8	22	29	9	8	22	34	8	8	22	34	8	4	54	16.8	691.	353.	136.0
PAT (C) FPQ-6	8	22	27	50	8	22	35	6	7	15	8	22	29	12	8	22	34	6	8	22	34	6	4	54	15.7	703.	369.	136.0
GBI (C) TPQ-18	8	22	28	39	8	22	35	27	6	48	8	22	30	2	8	22	34	12	8	22	34	12	4	10	9.7	856.	475.	136.1
GBM (S) USB-30*	8	22	28	39	8	22	35	28	6	48	8	22	30	3	8	22	34	12	8	22	34	12	4	9	9.7	858.	475.	136.1
BDA (C) FPS-16M	8	22	31	22	8	22	38	48	7	26	8	22	32	25	8	22	37	52	8	22	37	52	5	26	68.7	517.	113.	136.1
BDO (C) FPQ-6	8	22	31	22	8	22	38	48	7	26	8	22	32	25	8	22	37	52	8	22	37	52	5	26	68.7	517.	113.	136.1
BDA (S) USB-30*	8	22	31	21	8	22	38	48	7	26	8	22	32	25	8	22	37	51	8	22	37	51	5	26	68.8	517.	113.	136.1
VAN (S) USB-30*	8	22	35	49	8	22	42	44	6	54	8	22	37	6	8	22	41	42	8	22	41	42	4	35	23.7	586.	223.	136.1
CYI (C) MPS2b	8	22	43	56	8	22	47	31	3	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	727.	659.	136.2

TABLE V.-0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO																	
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC												
CYI (S) USB-30*	8	22	43	57	8	22	47	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
PAN (C) MPS-25M	8	22	59	39	8	23	5	42	8	23	1	39	8	23	3	42	8	23	3	42	8	23	3	42												
TAN (C) FPS-16M	8	23	1	45	8	23	9	50	8	23	2	57	8	23	8	36	8	23	8	36	8	23	8	36												
CRO (C) FPQ-8	8	23	17	24	8	23	27	2	8	23	18	37	8	23	25	48	8	23	25	48	8	23	25	48												
CRO (S) USB-30*	8	23	17	24	8	23	27	2	8	23	18	37	8	23	25	48	8	23	25	48	8	23	25	48												
HSK (S) USB-85*	8	23	25	37	8	23	31	38	9	0	0	0	8	23	0	0	8	23	0	0	8	23	0	0												
HTV (S) USB-30*	8	23	32	7	8	23	42	19	10	12	8	23	33	20	5	48	8	23	41	5	48	8	23	41	5											
HAW (C) FPS-16M	8	23	43	25	8	23	52	36	9	1	8	23	44	53	26	6	33	8	23	51	26	6	33	8	23	51	26									
HAW (S) USB-30*	8	23	43	25	8	23	52	36	9	1	8	23	44	53	26	6	33	8	23	51	26	6	33	8	23	51	26									
RED (S) USB-30*	8	23	44	59	8	23	53	35	8	36	8	23	46	13	28	6	15	19	7	1088	4	15	19	7	1088	4	15	19	7	1088						
CAL (C) FPS-16	8	23	53	34	9	0	1	40	8	5	8	23	54	48	43	5	54	25	8	792	5	54	25	8	792	5	54	25	8	792						
GDS (S) USB-85*	8	23	54	28	9	0	2	28	8	0	8	23	55	35	20	5	44	28	5	866	5	44	28	5	866	5	44	28	5	866						
GYM (S) USB-30*	8	23	55	43	9	0	3	15	7	32	8	23	57	4	16	5	11	17	2	852	5	11	17	2	852	5	11	17	2	852						
WHS (C) FPS-16M	8	23	56	42	9	0	4	35	7	52	8	23	57	43	32	5	48	51	7	884	5	48	51	7	884	5	48	51	7	884						
TEX (S) USB-30*	8	23	59	10	9	0	6	10	7	0	9	0	0	24	4	54	4	30	14	650	4	30	14	2	650	4	30	14	2	650						
MIL (S) USB-30*	9	0	2	58	9	0	10	1	7	3	9	0	3	57	8	56	4	59	21	854	4	59	21	6	854	4	59	21	6	854						
PAT (C) FPQ-6	9	0	3	2	9	0	10	2	7	0	9	0	4	1	1	865	4	54	20	7	855	4	54	20	7	855	4	54	20	7	855					
GBI (C) TPQ-18	9	0	3	40	9	0	10	32	6	51	9	0	4	58	9	0	9	21	17	4	585	9	0	9	21	17	4	585	9	0	9	21	17	4	585	
GBM (S) USB-30*	9	0	3	40	9	0	10	32	6	51	9	0	4	58	9	0	9	21	17	4	585	9	0	9	21	17	4	585	9	0	9	21	17	4	585	
BDA (C) FPS-16M	9	0	6	17	9	0	12	53	6	35	9	0	7	28	9	0	9	22	14	9	683	4	22	14	9	683	4	22	14	9	683	4	22	14	9	683
BDQ (C) FPQ-6	9	0	6	17	9	0	12	53	6	35	9	0	7	28	9	0	11	51	14	9	683	4	22	14	9	683	4	22	14	9	683	4	22	14	9	683
BDA (S) USB-30*	9	0	6	17	9	0	12	53	6	35	9	0	7	28	9	0	11	51	14	9	683	4	22	14	9	683	4	22	14	9	683	4	22	14	9	683
ANG (S) USB-30*	9	0	9	15	9	0	14	11	4	55	0	0	0	0	0	0	0	0	4	6	629	0	0	0	0	629	0	0	0	0	629	0	0	0	0	629
VAN (S) USB-30*	9	0	12	8	9	0	15	8	3	0	9	0	0	0	0	0	0	0	1	6	777	0	0	0	0	777	0	0	0	0	777	0	0	0	0	777
ASC (C) TPQ-18	9	0	22	18	9	0	28	52	6	34	9	0	23	32	36	4	3	12	9	656	4	3	12	9	656	4	3	12	9	656	4	3	12	9	656	
ACN (S) USB-30*	9	0	22	18	9	0	28	53	6	34	9	0	23	32	37	4	5	13	0	657	4	5	13	0	657	4	5	13	0	657	4	5	13	0	657	
PRE (C) MPS-25M	9	0	32	51	9	0	41	23	8	32	9	0	33	42	20	6	37	65	8	1002	6	37	65	8	1002	6	37	65	8	1002	6	37	65	8	1002	
TAN (C) FPS-16M	9	0	37	49	9	0	44	9	6	19	9	0	40	30	33	1	3	5	7	936	7	56	73	2	934	7	56	73	2	934	7	56	73	2	934	
CRO (C) FPQ-8	9	0	51	55	9	1	2	22	10	26	9	0	53	9	1	1	5	7	3	934	7	56	73	0	934	7	56	73	0	934	7	56	73	0	934	
CRO (S) USB-30*	9	1	6	44	9	1	12	20	5	36	9	1	0	0	0	0	0	3	5	1121	0	0	0	0	1121	0	0	0	0	1121	0	0	0	0	1121	
GWM (S) USB-30*	9	1	9	28	9	1	14	16	9	4	8	0	0	0	0	0	0	2	4	1012	0	0	0	0	1012	0	0	0	0	1012	0	0	0	0	1012	
HTV (S) USB-30*	9	1	18	34	9	1	26	57	8	22	9	1	19	47	55	6	8	23	4	964	6	8	23	4	964	6	8	23	4	964	6	8	23	4	964	
HAW (C) FPS-16M	9	1	18	34	9	1	26	57	8	22	9	1	19	47	55	6	8	23	4	964	6	8	23	4	964	6	8	23	4	964	6	8	23	4	964	
HAW (S) USB-30*	9	1	18	34	9	1	26	57	8	22	9	1	19	47	55	6	8	23	4	964	6	8	23	4	964	6	8	23	4	964	6	8	23	4	964	
RED (S) USB-30*	9	1	22	45	9	1	26	4	3	19	9	1	0	0	0	0	0	1	4	975	0	0	0	0	975	0	0	0	0	975	0	0	0	0	975	
CAL (C) FPS-16	9	1	28	22	9	1	36	4	7	42	9	1	29	25	1	5	35	29	6	788	5	35	29	6	788	5	35	29	6	788	5	35	29	6	788	
GDS (S) USB-85*	9	1	29	15	9	1	36	45	7	29	9	1	30	18	46	5	28	40	6	515	5	28	40	6	515	5	28	40	6	515	5	28	40	6	515	

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
 (a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO			
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC
GYM (S) USB-30*	9	1	31	6	9	1	38	3	9	1	36	53	9	1	16.2	901.	324.	138.0		
WHS (C) FPS-16M	9	1	31	37	9	1	38	58	9	1	38	8	9	1	48.4	574.	137.	138.0		
TEX (S) USB-30*	9	1	34	1	9	1	41	1	9	1	40	10	9	1	22.8	645.	238.	138.0		
MIL (S) USB-30*	9	1	37	41	9	1	44	28	9	1	43	19	9	1	24.1	534.	211.	138.0		
PAT (C) FPQ-5	9	1	37	43	9	1	44	32	9	1	43	25	9	1	25.7	541.	200.	138.0		
GBI (C) TPQ-18	9	1	38	24	9	1	45	5	9	1	44	17	9	1	19.9	678.	246.	138.0		
GBM (S) USB-30*	9	1	43	9	9	1	49	49	9	1	48	53	9	1	24.8	648.	198.	138.1		
ASC (C) TPQ-18	9	1	56	50	9	2	3	33	9	2	2	8	9	1	9.1	863.	491.	138.2		
ACN (S) USB-30*	9	1	56	52	9	2	3	33	9	2	2	7	9	1	9.0	862.	495.	138.2		
PRE (C) MPS-25M	9	2	7	39	9	2	16	22	9	2	14	59	9	2	18.1	873.	433.	138.4		
TAN (C) FPS-16M	9	2	13	45	9	2	19	31	9	2	0	0	9	2	3.8	1090.	919.	138.4		
CRO (C) FPQ-6	9	2	27	29	9	2	35	46	9	2	34	5	9	2	9.8	1068.	742.	138.6		
CRO (S) USB-30*	9	2	27	29	9	2	35	46	9	2	34	5	9	2	9.7	1069.	743.	138.6		
GWM (S) USB-30*	9	2	39	18	9	2	48	54	9	2	47	52	9	2	34.9	767.	289.	138.7		
HAW (S) FPS-16M	9	2	54	58	9	3	0	51	9	2	57	3	9	2	5.1	959.	684.	138.8		
HAW (S) USB-30*	9	3	3	18	9	3	10	11	9	3	9	0	9	3	19.8	595.	264.	138.9		
GDS (S) USB-85*	9	3	5	45	9	3	12	50	9	3	5	28	9	3	12.8	676.	363.	138.9		
GYM (S) USB-30*	9	3	6	42	9	3	12	52	9	3	6	57	9	3	51.1	558.	120.	139.0		
WHS (C) FPS-16M	9	3	9	1	9	3	15	14	9	3	11	42	9	3	10.1	755.	405.	139.0		
TEX (S) USB-30*	9	3	42	43	9	3	51	43	9	3	50	22	9	3	17.8	796.	372.	139.0		
PRE (C) MPS-25M	9	3	48	8	9	3	56	19	9	3	49	50	9	3	8.8	1053.	489.	139.4		
TAN (C) FPS-16M	9	4	15	0	9	4	22	46	9	4	21	22	9	4	11.3	1086.	580.	139.7		
GYM (S) USB-30*	9	4	30	57	9	4	35	38	9	4	34	31	9	4	3.6	872.	678.	139.8		
HAW (S) USB-30*	9	4	30	57	9	4	35	38	9	4	34	31	9	4	3.6	872.	678.	139.8		
CAL (C) FPS-16	9	4	39	4	9	4	42	38	9	4	41	0	9	4	2.4	802.	662.	139.9		
GYM (S) USB-30*	9	4	41	24	9	4	45	59	9	4	44	0	9	4	4.0	652.	580.	139.9		
PRE (C) MPS-25M	9	5	17	19	9	5	27	17	9	5	18	25	9	5	29.9	1153.	362.	140.4		
TAN (C) FPS-16M	9	5	22	13	9	5	32	29	9	5	23	24	9	5	41.3	994.	291.	140.4		
HAW (C) FPS-16M	9	6	5	23	9	6	11	32	9	6	10	15	9	6	9.9	714.	408.	140.8		
HAW (S) USB-30*	9	6	5	23	9	6	11	32	9	6	10	15	9	6	9.9	713.	408.	140.8		
RED (S) USB-30*	9	6	9	5	9	6	13	43	9	6	12	43	9	6	4.2	801.	581.	140.9		
PRE (C) MPS-25M	9	6	51	58	9	7	2	4	9	7	0	51	9	7	33.2	996.	341.	141.4		
TAN (C) FPS-16M	9	6	57	17	9	7	6	41	9	7	5	21	9	7	16.4	871.	561.	141.4		
HAW (C) FPS-16M	9	7	39	47	9	7	46	29	9	7	45	19	9	7	26.7	527.	186.	141.8		

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(a) CSM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		RANGE AND ELEVATION						
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	MIN	REV				
BDO (C) FPQ-6	9	17	43	25	9	17	51	5	9	17	44	58	9	17	49	43	4	45	801.	588.	148.1
BDA (S) USB-30*	9	17	43	25	9	17	51	4	9	17	44	58	9	17	49	42	4	44	801.	588.	148.1
ANG (S) USB-30*	9	17	41	39	9	17	50	29	9	17	43	0	9	17	49	15	6	14	827.	429.	148.1
VAN (S) USB-30*	9	17	47	1	9	17	55	33	9	17	48	5	9	17	54	37	6	32	1043.	226.	148.2
CYI (C) MPS26	9	17	53	59	9	18	1	19	9	17	55	21	9	18	0	15	4	54	834.	415.	148.2
CYI (S) USB-30*	9	17	53	59	9	18	1	19	9	17	55	21	9	18	0	15	4	54	834.	415.	148.2
MAD (S) USB-85*	9	17	56	44	9	18	3	10	9	17	58	12	9	18	1	52	3	39	863.	517.	148.3
CRO (C) FPQ-6	9	18	28	44	9	18	37	0	9	18	29	36	9	18	35	55	6	18	834.	191.	148.6
CRO (S) USB-30*	9	18	28	44	9	18	37	0	9	18	29	36	9	18	35	55	6	18	834.	190.	148.6
HSK (S) USB-85*	9	18	36	38	9	18	45	56	9	18	37	37	9	18	44	45	7	8	964.	212.	148.7
MER (S) USB-30*	9	18	46	4	9	18	56	17	9	18	47	14	9	18	55	1	7	46	947.	222.	148.8
GYM (S) USB-30*	9	19	9	42	9	19	13	45	4	2	0	0	0	0	0	0	0	0	1035.	1015.	149.0
WHS (C) FPS-16M	9	19	12	49	9	19	13	28	0	39	0	0	0	0	0	0	0	0	1083.	1083.	149.0
TEX (S) USB-30*	9	19	10	18	9	19	18	19	8	1	9	19	11	51	9	19	16	51	981.	606.	149.0
MTL (S) USB-30*	9	19	13	24	9	19	22	21	8	57	9	19	14	36	9	19	21	9	742.	335.	149.1
PAT (C) FPQ-6	9	19	13	22	9	19	22	21	8	58	9	19	14	33	9	19	21	10	740.	323.	149.1
GBI (C) TPQ-18	9	19	13	38	9	19	22	43	9	5	9	19	14	53	9	19	21	40	781.	225.	149.1
GBM (S) USB-30*	9	19	13	38	9	19	22	43	9	5	9	19	14	53	9	19	21	41	783.	224.	149.1
ANG (S) USB-30*	9	19	18	50	9	19	23	34	4	44	0	0	0	0	0	0	0	0	996.	842.	149.1
BDA (C) FPS-16M	9	19	17	20	9	19	25	55	8	35	9	19	18	28	9	19	24	54	782.	254.	149.1
BDO (C) FPQ-6	9	19	17	20	9	19	25	55	8	35	9	19	18	28	9	19	24	54	782.	254.	149.1
BDA (S) USB-30*	9	19	17	20	9	19	25	55	8	35	9	19	18	28	9	19	24	54	782.	254.	149.1
VAN (S) USB-30*	9	19	21	48	9	19	29	58	8	10	9	19	23	5	9	19	28	57	721.	276.	149.2
CYI (C) MPS26	9	19	29	6	9	19	36	14	7	7	9	19	30	6	9	19	35	3	894.	240.	149.2
CYI (S) USB-30*	9	19	29	6	9	19	36	14	7	7	9	19	30	6	9	19	35	3	894.	239.	149.2
MAD (S) USB-85*	9	19	32	16	9	19	35	46	3	29	0	0	0	0	0	0	0	0	752.	743.	149.2
CRO (C) FPQ-6	9	20	3	40	9	20	11	51	8	10	9	20	4	58	9	20	10	28	952.	475.	149.6
CRO (S) USB-30*	9	20	3	40	9	20	11	51	8	10	9	20	4	58	9	20	10	28	951.	475.	149.6
HSK (S) USB-85*	9	20	11	3	9	20	20	37	9	34	9	20	12	2	9	20	19	21	1067.	305.	149.7
HTV (S) USB-30*	9	20	21	25	9	20	25	3	3	38	0	0	0	0	0	0	0	0	1095.	1095.	149.7
MER (S) USB-30*	9	20	21	3	9	20	30	26	9	23	9	20	22	17	9	20	29	3	1156.	531.	149.8
RED (S) USB-30*	9	20	32	49	9	20	38	54	6	5	0	0	0	0	0	0	0	0	1129.	947.	149.9
CAL (C) FPS-16	9	20	42	41	9	20	47	4	4	22	0	0	0	0	0	0	0	0	1048.	948.	149.9
GDS (S) USB-85*	9	20	43	6	9	20	48	7	5	0	0	0	0	0	0	0	0	0	1093.	909.	150.0
GYM (S) USB-30*	9	20	41	31	9	20	50	21	8	49	9	20	42	49	9	20	49	6	791.	427.	150.0
WHS (C) FPS-16M	9	20	43	18	9	20	51	21	8	2	9	20	44	40	9	20	50	8	957.	501.	150.0
TEX (S) USB-30*	9	20	44	13	9	20	53	7	8	54	9	20	45	23	9	20	52	16	975.	155.	150.0

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(a) CSM - Concluded

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		RANGE AND ELEVATION			
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MAX	MIN	REV	
MIL (S) USB-30*	9	20	48	18	9	20	56	42	9	20	55	38	9	20	30.6	253.	150.1	
PAT (C) FPQ-0	9	20	48	20	9	20	56	41	9	20	55	37	6	6	28.6	267.	150.1	
GBI (C) TPQ-18	9	20	49	2	9	20	56	55	9	20	55	50	5	36	19.3	360.	150.1	
GBM (S) USB-30*	9	20	49	2	9	20	56	55	9	20	55	51	5	36	19.3	361.	150.1	
BDA (C) FPS-16M	9	20	52	11	9	21	0	18	9	20	59	8	5	48	34.3	207.	150.1	
BDA (C) FPQ-5	9	20	52	11	9	21	0	18	9	20	59	8	5	48	34.3	207.	150.1	
BDA (S) USB-30*	9	20	52	11	9	21	0	18	9	20	59	8	5	48	34.3	207.	150.1	
VAN (S) USB-30*	9	20	56	50	9	21	4	24	9	20	57	47	5	29	50.8	137.	150.2	
CYI (C) MPS25	9	21	3	47	9	21	10	33	9	21	5	4	4	20	20.9	240.	150.2	
TAN (C) FPS-16M	9	21	23	15	9	21	30	44	9	21	29	34	5	26	32.3	201.	150.4	
CRO (C) FPQ-5	9	21	38	44	9	21	47	11	9	21	45	47	5	45	14.1	550.	150.6	
CRO (S) USB-30*	9	21	45	43	9	21	54	30	9	21	47	9	5	50	12.4	549.	150.6	
HSK (S) USB-85*	9	21	53	25	9	22	3	5	9	21	54	42	7	8	20.4	632.	150.7	
MTV (S) USB-30*	9	22	5	59	9	22	12	40	9	22	8	10	2	28	6.2	485.	150.7	
HAW (C) FPS-16M	9	22	5	59	9	22	12	40	9	22	8	10	2	28	6.2	817.	150.8	
HAW (S) USB-30*	9	22	5	59	9	22	12	40	9	22	8	10	2	28	6.2	817.	150.8	
RED (S) USB-30*	9	22	5	32	9	22	14	57	9	22	6	45	7	8	53.2	217.	150.9	
CAL (C) FPS-16	9	22	15	12	9	22	22	7	9	22	13	53	4	19	12.6	426.	150.9	
GDS (S) USB-35*	9	22	16	5	9	22	22	50	9	22	21	44	4	11	12.8	970.	150.9	
GYM (S) USB-30*	9	22	16	32	9	22	23	48	9	22	16	40	5	4	36.9	948.	151.0	
WHS (C) FPS-16M	9	22	17	56	9	22	24	52	9	22	19	12	4	47	48.9	883.	127.	151.0
TEX (S) USB-30*	9	22	20	12	9	22	26	5	9	22	25	5	3	28	12.4	302.	151.0	
MIL (S) USB-30*	9	22	24	46	9	22	29	9	9	22	28	3	1	44	7.2	616.	314.	151.0
PAT (C) FPQ-6	9	22	24	51	9	22	29	8	9	22	27	57	1	29	6.5	629.	319.	151.0
GBI (C) TPQ-18	9	22	25	50	9	22	29	15	0	0	0	0	0	0	3.2	406.	151.0	
GBM (S) USB-30*	9	22	25	51	9	22	29	16	0	0	0	0	0	0	3.2	406.	151.0	
BDA (C) FPS-16M	9	22	28	35	9	22	34	25	9	22	32	31	2	47	41.4	43.	151.1	
BDA (C) FPQ-0	9	22	28	35	9	22	34	25	9	22	32	31	2	47	41.4	43.	151.1	
BDA (S) USB-30*	9	22	28	35	9	22	34	24	9	22	32	31	2	47	41.2	43.	151.1	

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(b) LM

MSFN STATION NAME	ACQUISITION		LOSS		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO		
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MAX	MIN	MAX	REV	
ASC (C) TPQ-18	0	3	28	9	0	3	29	57	0	3	32	17	2	20	719.	514.	3.2
ACN (S) USB-30*	0	3	28	10	0	3	29	56	0	3	32	19	2	23	719.	511.	3.2
PRE (C) FPS-25M	0	3	38	58	0	3	39	49	0	3	45	3	5	14	852.	200.	3.4
TAN (C) FPS-16M	0	3	43	46	0	3	48	40	0	0	0	0	0	0	699.	664.	3.4
CRO (C) FPQ-6	0	3	58	19	0	4	5	52	0	4	4	50	5	33	736.	240.	3.6
CRO (S) USB-30*	0	3	58	19	0	4	5	52	0	4	4	50	5	33	736.	239.	3.6
HTV (S) USB-30*	0	4	15	4	0	4	17	49	0	0	0	0	0	0	829.	823.	3.7
HAM (C) FPS-16M	0	4	23	21	0	4	30	46	0	4	29	33	5	18	847.	220.	3.8
HAW (S) USB-30*	0	4	23	21	0	4	30	46	0	4	29	33	5	18	847.	220.	3.8
RED (S) USB-30*	0	4	26	51	0	4	30	17	0	0	0	0	0	0	806.	793.	3.8
CAL (C) FPS-16	0	4	32	33	0	4	40	8	0	4	39	9	5	30	751.	261.	4.0
GDS (S) USB-85*	0	4	34	29	0	4	40	54	0	4	39	45	5	21	583.	209.	4.0
GYM (S) USB-30*	0	4	34	58	0	4	42	13	0	4	41	5	5	2	786.	360.	4.0
WHS (C) FPS-16M	0	4	35	40	0	4	43	14	0	4	42	16	5	38	489.	111.	4.0
TEX (S) USB-30*	0	4	37	54	0	4	45	20	0	4	44	21	5	19	554.	219.	4.0
MIL (S) USB-30*	0	4	41	34	0	4	49	3	0	4	47	54	5	26	552.	176.	4.0
PAT (C) FPQ-6	0	4	41	34	0	4	49	3	0	4	47	54	5	26	552.	176.	4.0
GBI (C) TPQ-18	0	4	42	6	0	4	49	37	0	4	48	46	5	29	841.	170.	4.1
GBM (S) USB-30*	0	4	42	7	0	4	49	38	0	4	48	47	5	29	840.	171.	4.1
BDA (C) FPS-16M	0	4	45	57	0	4	50	11	0	0	0	0	0	0	776.	717.	4.1
BDQ (C) FPQ-6	0	4	45	57	0	4	50	11	0	0	0	0	0	0	776.	717.	4.1
BDA (S) USB-30*	0	4	45	57	0	4	50	11	0	0	0	0	0	0	776.	717.	4.1
ANG (S) USB-30*	0	4	46	49	0	4	54	21	0	4	53	19	5	32	742.	238.	4.1
ASC (C) TPQ-18	0	5	0	42	0	5	7	46	0	5	6	45	4	55	806.	336.	4.2
ACN (S) USB-30*	0	5	0	43	0	5	19	21	0	5	6	45	4	54	804.	340.	4.2
PRE (C) FPS-25M	0	5	12	15	0	5	13	31	0	5	18	17	4	46	624.	304.	4.3
TAN (C) FPS-16M	0	5	19	20	0	5	20	13	0	0	0	0	0	0	852.	852.	4.4
CRO (C) FPQ-6	0	5	32	19	0	5	37	51	0	5	35	49	0	59	803.	584.	4.6
CRO (S) USB-30*	0	5	32	19	0	5	37	51	0	5	34	49	0	59	803.	584.	4.6
GWM (S) USB-30*	0	5	43	40	0	5	50	37	0	5	44	48	0	58	804.	584.	4.6
HAW (C) FPS-16M	0	5	57	36	0	6	3	29	0	5	59	14	2	34	871.	549.	4.8
HAM (S) USB-30*	0	5	57	36	0	6	3	29	0	5	59	14	2	35	871.	549.	4.8
CAL (C) FPS-16	0	6	5	49	0	6	13	10	0	6	11	58	5	11	600.	258.	4.9
GDS (S) USB-35*	0	6	8	8	0	6	15	45	0	6	12	36	4	45	653.	340.	4.9
GYM (S) USB-30*	0	6	8	56	0	6	16	8	0	6	14	53	5	42	536.	129.	5.0
WHS (S) FPS-16M	0	6	11	8	0	6	18	39	0	6	15	4	4	57	818.	361.	5.0
TEX (S) USB-30*	0	6	15	40	0	6	20	39	0	6	17	32	5	22	767.	313.	5.0
MIL (S) USB-30*	0	6	15	40	0	6	20	39	0	6	17	32	5	22	767.	313.	5.0
PAT (C) FPQ-6	0	6	15	40	0	6	20	46	0	6	17	32	5	22	877.	681.	5.0
PAT (C) FPQ-6	0	6	15	40	0	6	20	46	0	6	17	32	5	22	877.	681.	5.0

-----0 DEGREE ELEVATION ANGLE-----

-----5 DEGREE ELEVATION ANGLE-----

-----RANGE AND ELEVATION-----

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
 (b) LM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO					
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC
ASC (C) TPQ-18	0	16	2	36	0	16	6	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACN (S) USB-30*	0	16	2	39	0	16	6	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GMM (S) USB-30*	0	16	43	31	0	16	48	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HTV (S) USB-30*	0	16	51	13	0	16	57	54	0	16	52	43	0	16	56	26	0	16	56	26	3	43	3	43
MER (S) USB-30*	0	16	57	21	0	17	5	28	0	16	58	17	0	17	4	25	0	17	4	25	6	7	6	7
CYI (C) MPS26	0	17	39	37	0	17	46	6	0	17	40	57	0	17	44	44	0	17	44	44	3	47	3	47
MER (S) USB-30*	0	18	31	35	0	18	39	0	0	18	32	48	0	18	37	38	0	18	37	38	4	49	4	49
ANG (S) USB-30*	0	19	2	25	0	19	8	5	0	19	4	59	0	19	6	5	0	19	6	5	1	5	1	5
VAN (S) USB-30*	0	19	9	42	0	19	11	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYI (C) MPS26	0	19	12	27	0	19	20	3	0	19	13	38	0	19	19	11	0	19	19	11	5	32	5	32
CYI (S) USB-30*	0	19	12	27	0	19	20	3	0	19	13	38	0	19	19	11	0	19	19	11	5	32	5	32
MAD (S) USB-85*	0	19	16	38	0	19	22	22	0	19	18	50	0	19	20	22	0	19	20	22	1	32	1	32
CRO (C) FPQ-5	0	19	49	58	0	19	54	12	0	19	54	12	0	19	54	12	0	19	54	12	0	0	0	0
CRO (S) USB-30*	0	19	49	59	0	19	54	12	0	19	54	12	0	19	54	12	0	19	54	12	0	0	0	0
HSK (S) USB-85*	0	19	56	55	0	20	3	51	0	20	3	51	0	20	3	51	0	20	3	51	0	0	0	0
MER (S) USB-30*	0	20	5	49	0	20	12	59	0	20	7	8	0	20	11	32	0	20	11	32	4	24	4	24
BDA (C) FPS-16M	0	20	38	33	0	20	41	46	0	20	41	46	0	20	41	46	0	20	41	46	0	0	0	0
BDQ (C) FPQ-6	0	20	38	33	0	20	41	46	0	20	41	46	0	20	41	46	0	20	41	46	0	0	0	0
BDQ (S) USB-30*	0	20	38	33	0	20	41	46	0	20	41	46	0	20	41	46	0	20	41	46	0	0	0	0
ANG (S) USB-30*	0	20	34	53	0	20	47	27	0	20	47	27	0	20	47	27	0	20	47	27	0	0	0	0
VAN (S) USB-30*	0	20	40	21	0	20	47	27	0	20	47	27	0	20	47	27	0	20	47	27	0	0	0	0
CYI (C) MPS26	0	20	46	27	0	20	53	39	0	20	53	39	0	20	52	35	0	20	52	35	4	50	4	50
CYI (S) USB-30*	0	20	46	27	0	20	53	39	0	20	47	44	0	20	52	35	0	20	52	35	4	50	4	50
MAD (S) USB-85*	0	20	49	29	0	20	55	44	0	20	50	57	0	20	54	18	0	20	54	18	3	21	3	21
CRO (C) FPQ-6	0	21	21	26	0	21	29	24	0	21	22	22	0	21	28	19	0	21	28	19	5	57	5	57
CRO (S) USB-30*	0	21	21	26	0	21	29	25	0	21	22	22	0	21	28	19	0	21	28	19	5	57	5	57
HSK (S) USB-85*	0	21	29	49	0	21	37	40	0	21	30	48	0	21	36	39	0	21	36	39	5	51	5	51
MER (S) USB-30*	0	21	39	24	0	21	47	20	0	21	40	25	0	21	46	12	0	21	46	12	5	46	5	46
TEX (S) USB-30*	0	22	4	41	0	22	7	32	0	22	7	33	0	22	11	33	0	22	11	33	0	0	0	0
MIL (S) USB-30*	0	22	6	15	0	22	12	51	0	22	7	33	0	22	11	33	0	22	11	33	4	0	4	0
PAT (C) FPQ-6	0	22	6	12	0	22	12	53	0	22	7	28	0	22	11	36	0	22	11	36	4	7	4	7
GBI (C) TPQ-18	0	22	6	16	0	22	13	24	0	22	7	24	0	22	12	16	0	22	12	16	4	51	4	51
GBM (S) USB-30*	0	22	6	16	0	22	13	25	0	22	7	25	0	22	12	16	0	22	12	16	4	51	4	51
ANG (S) USB-30*	0	22	10	5	0	22	14	58	0	22	10	5	0	22	15	40	0	22	15	40	0	0	0	0
BDQ (C) FPS-16M	0	22	9	43	0	22	16	54	0	22	10	54	0	22	15	40	0	22	15	40	4	46	4	46
BDQ (C) FPQ-6	0	22	9	43	0	22	16	54	0	22	10	54	0	22	15	40	0	22	15	40	4	46	4	46

TABLE V.-0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	ACQUISITION			LOSS			DURATION			ACQUISITION			LOSS			DURATION			RANGE AND ELEVATION					
	DAY	HR	MIN SEC	DAY	HR	MIN SEC	DAY	HR	MIN SEC	DAY	HR	MIN SEC	DAY	HR	MIN SEC	DAY	HR	MIN SEC	DAY	HR	MIN SEC	MAX ELEV	MAX RANGE	MIN RANGE
BDA (S) USB-30*	0	22	9	43	0	22	16	54	7	10	0	22	10	54	0	22	15	40	4	46	19.3	880.	300.	15.1
VAN (S) USB-30*	0	22	13	40	0	22	21	16	7	36	0	22	14	29	0	22	20	7	5	37	43.1	878.	161.	15.2
CYI (C) MPS2*	0	22	20	18	0	22	27	42	7	24	0	22	21	30	0	22	26	32	5	1	17.7	597.	343.	15.2
CYI (S) USB-30*	0	22	20	18	0	22	27	42	7	24	0	22	21	30	0	22	26	32	5	1	17.7	597.	343.	15.2
MAD (S) USB-85*	0	22	22	39	0	22	29	2	6	22	0	22	24	25	0	22	27	13	2	48	8.1	749.	560.	15.3
CRO (C) FPQ-*	0	22	54	50	0	23	4	33	9	43	0	22	56	4	0	23	3	21	7	16	27.4	1014.	376.	15.6
CRO (S) USB-30*	0	22	54	50	0	23	4	33	9	43	0	22	56	5	0	23	3	21	7	16	27.4	1013.	376.	15.6
HSK (S) USB-85*	0	23	3	7	0	23	12	57	9	50	0	23	4	15	0	23	11	46	7	30	49.7	1007.	234.	15.7
MER (S) USB-30*	0	23	13	26	0	23	22	29	9	3	0	23	14	32	0	23	21	27	6	54	38.6	1020.	248.	15.8
GYM (S) USB-30*	0	23	35	8	0	23	40	44	5	35	0	23	37	25	0	23	38	21	0	56	5.8	791.	606.	16.0
WHS (C) FPS-16M	0	23	37	13	0	23	41	32	4	19	0	0	0	0	0	0	0	0	0	0	3.0	805.	720.	16.0
TEX (S) USB-30*	0	23	30	53	0	23	44	15	7	21	0	23	38	3	0	23	43	15	5	12	18.4	802.	314.	16.0
MIL (S) USB-30*	0	23	40	23	0	23	47	57	7	33	0	23	41	31	0	23	47	5	5	33	44.4	866.	156.	16.1
PAT (C) FPQ-*	0	23	40	23	0	23	47	56	7	33	0	23	41	32	0	23	47	4	5	32	41.6	867.	163.	16.1
GBI (C) TPQ-18	0	23	40	53	0	23	48	18	7	24	0	23	42	2	0	23	47	17	5	15	19.4	799.	299.	16.1
GBM (S) USB-30*	0	23	40	54	0	23	48	18	7	24	0	23	42	2	0	23	47	18	5	15	19.3	798.	300.	16.1
BDA (C) FPS-16M	0	23	44	7	0	23	51	45	7	37	0	23	45	7	0	23	50	49	5	42	72.1	504.	118.	16.1
BDQ (C) FPQ-*	0	23	44	7	0	23	51	45	7	37	0	23	45	7	0	23	50	49	5	42	72.1	504.	118.	16.1
BDA (S) USB-30*	0	23	44	7	0	23	51	45	7	37	0	23	45	7	0	23	50	49	5	42	72.3	504.	118.	16.1
VAN (S) USB-85*	0	23	59	26	1	0	0	22	9	47	0	23	49	28	0	23	55	12	5	44	40.7	868.	175.	16.2
CYI (C) MPS2*	0	23	54	52	1	0	0	22	8	18	0	0	0	0	0	0	0	0	0	0	.4	932.	932.	16.2
CYI (S) USB-30*	0	23	54	52	1	0	0	22	8	18	0	23	55	57	1	0	1	56	5	58	28.5	727.	259.	16.2
TAN (C) FPS-16M	1	0	14	51	1	0	23	38	8	46	1	0	16	10	1	0	22	17	6	7	15.6	903.	528.	16.4
CRO (C) FPQ-*	1	0	30	37	1	0	39	29	8	51	1	0	32	5	1	0	38	6	6	0	13.7	937.	591.	16.6
CRO (S) USB-30*	1	0	30	37	1	0	39	29	8	52	1	0	32	5	1	0	38	6	6	0	13.7	937.	590.	16.6
HSK (S) USB-35*	1	0	38	10	1	0	47	12	9	1	0	39	28	1	0	45	56	6	28	18.3	803.	468.	16.7	
HTV (S) USB-30*	1	0	47	22	1	0	53	37	6	14	1	0	49	42	1	0	50	29	0	46	5.3	990.	771.	16.7
MER (S) USB-30*	1	0	50	16	1	0	54	37	4	21	1	0	0	0	0	0	0	0	0	0	2.4	910.	887.	16.8
RED (S) USB-30*	1	0	59	7	1	0	5	57	6	49	1	1	0	35	1	1	4	39	4	3	9.7	881.	514.	16.9
CAL (C) FPS-16	1	1	8	32	1	1	13	50	5	18	0	0	0	0	0	0	0	0	0	0	4.8	877.	637.	16.9
GDS (S) USB-85*	1	1	9	9	1	1	14	46	5	37	1	1	11	17	1	1	12	59	1	41	6.2	876.	582.	16.9
GYM (S) USB-30*	1	1	8	37	1	1	16	11	7	33	1	1	9	50	1	1	15	6	5	16	72.7	876.	116.	17.0
WHS (C) FPS-16M	1	1	10	6	1	1	17	23	7	17	1	1	11	10	1	1	16	15	5	5	26.6	877.	232.	17.0
TEX (S) USB-30*	1	1	11	45	1	1	19	0	7	15	1	1	12	53	1	1	17	51	4	58	26.4	888.	235.	17.0
PAT (C) FPQ-*	1	1	15	43	1	1	22	42	6	58	1	1	16	55	1	1	21	29	4	33	16.7	909.	342.	17.0
MIL (S) USB-30*	1	1	15	41	1	1	22	42	7	1	1	1	16	51	1	1	21	30	4	38	17.9	907.	325.	17.0

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
 (b) LM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		RANGE AND ELEVATION											
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	MAX	REV									
GBI (C) TPQ-18	1	1	16	26	1	1	22	59	6	32	1	1	17	45	1	1	21	38	3	53	11.3	911.	444.	17.0
GBM (S) USB-30*	1	1	16	27	1	1	22	59	6	32	1	1	17	45	1	1	21	39	3	53	11.3	910.	444.	17.0
BDA (C) FPS-16M	1	1	19	1	1	1	26	45	7	44	1	1	20	5	1	1	25	37	5	31	46.8	889.	159.	17.1
BDQ (C) FPQ-6	1	1	19	1	1	1	26	45	7	44	1	1	20	5	1	1	25	37	5	31	46.8	889.	159.	17.1
BDA (S) USB-30*	1	1	19	1	1	1	26	45	7	44	1	1	20	5	1	1	25	37	5	31	46.9	889.	159.	17.1
VAN (S) USB-30*	1	1	23	9	1	1	31	15	8	6	1	1	23	58	1	1	30	15	6	16	71.8	983.	136.	17.2
CYI (C) MPS26	1	1	29	29	1	1	38	18	8	48	1	1	30	34	1	1	36	59	6	25	26.0	881.	322.	17.2
CYI (S) USB-30*	1	1	29	29	1	1	38	18	8	48	1	1	30	34	1	1	36	59	6	25	26.0	882.	322.	17.2
PRE (C) MPS-25M	1	1	47	58	1	1	55	16	7	18	1	1	50	52	1	1	51	43	0	51	5.3	1328.	1025.	17.4
TAN (C) FPS-16M	1	1	48	37	1	2	9	27	11	50	1	1	49	42	1	1	59	7	9	25	51.7	1178.	317.	17.4
CRD (C) FPQ-6	1	2	5	43	1	2	16	46	11	3	1	2	7	11	1	2	15	26	8	14	20.9	1125.	604.	17.6
CRD (S) USB-30*	1	2	5	43	1	2	16	46	11	3	1	2	7	11	1	2	15	26	8	14	20.9	1125.	604.	17.6
HSK (S) USB-85*	1	2	13	30	1	2	23	16	9	45	1	2	15	3	1	2	21	56	6	53	15.0	1186.	662.	17.7
HTV (S) USB-30*	1	2	21	55	1	2	31	37	9	42	1	2	37	3	1	2	37	33	7	17	29.3	987.	353.	17.8
HAW (S) USB-16M	1	2	34	52	1	2	40	46	5	53	1	2	37	3	1	2	37	33	0	30	5.2	967.	715.	17.8
HAW (S) USB-30*	1	2	34	39	1	2	42	55	8	15	1	2	35	42	1	2	41	59	6	17	76.5	922.	133.	17.8
RED (S) USB-30*	1	2	43	43	1	2	50	52	7	9	1	2	45	1	1	2	49	43	4	42	16.6	628.	343.	17.9
CAL (C) FPS-16	1	2	44	32	1	2	51	43	7	10	1	2	45	1	1	2	50	35	4	53	13.1	787.	400.	18.0
GDS (S) USB-85*	1	2	45	13	1	2	52	40	7	26	1	2	46	14	1	2	51	31	5	16	25.2	579.	248.	18.0
GYS (S) USB-30*	1	2	46	16	1	2	54	0	7	44	1	2	47	18	1	2	52	57	5	38	23.7	726.	260.	18.0
WHS (C) FPS-16M	1	2	48	25	1	2	55	30	7	4	1	2	49	40	1	2	54	17	4	36	12.2	850.	423.	18.0
MIL (S) USB-30*	1	2	52	8	1	2	59	37	7	25	1	2	53	21	1	2	58	25	5	3	15.5	870.	378.	18.1
PAT (C) FPQ-6	1	2	52	11	1	2	59	37	7	25	1	2	53	25	1	2	58	23	4	58	14.5	871.	395.	18.1
GBI (C) TPQ-18	1	2	53	0	1	3	0	5	7	5	1	2	54	13	1	2	58	38	4	25	11.1	877.	484.	18.1
GBM (S) USB-30*	1	2	55	14	1	3	3	28	8	13	1	2	54	14	1	2	58	39	4	25	11.1	877.	484.	18.1
BDA (C) FPS-16M	1	2	55	14	1	3	3	28	8	13	1	2	56	7	1	3	2	26	6	19	74.2	951.	136.	18.1
BDQ (C) FPQ-6	1	2	55	14	1	3	3	28	8	13	1	2	56	7	1	3	2	26	6	19	74.2	951.	136.	18.1
BDA (S) USB-30*	1	2	58	52	1	3	3	19	4	27	1	3	2	0	0	0	0	0	0	0	2.6	988.	838.	18.1
ANG (S) USB-30*	1	2	58	52	1	3	3	19	4	27	1	3	2	0	0	0	0	0	0	0	2.6	988.	838.	18.1
VAN (S) USB-30*	1	2	59	24	1	3	7	37	8	13	1	3	0	31	1	3	6	22	5	50	19.4	988.	384.	18.2
CYI (C) MPS26	1	3	7	26	1	3	12	26	5	0	0	0	0	0	0	0	0	0	0	0	2.7	1014.	957.	18.2
CYI (S) USB-30*	1	3	7	26	1	3	12	26	5	0	0	0	0	0	0	0	0	0	0	0	2.7	1014.	957.	18.2
ASC (C) TPQ-18	1	3	11	54	1	3	19	46	7	52	1	3	13	51	1	3	17	42	3	50	7.6	1171.	834.	18.3
ACN (S) USB-30*	1	3	21	55	1	3	19	48	7	53	1	3	13	50	1	3	17	44	3	53	7.7	1166.	831.	18.3
PRE (C) MPS-25M	1	3	21	55	1	3	33	38	11	42	1	3	23	11	1	3	32	23	9	12	38.2	1287.	392.	18.4
TAN (C) FPS-16M	1	3	25	46	1	3	36	53	11	6	1	3	27	11	1	3	35	28	8	16	20.1	1098.	630.	18.4

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO			
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC				
GBM (S) USB-30*	1	6	5	19	1	6	14	1	6	12	38	1	6	12	38	456.	20.0			
BDA (C) FPS-16M	1	6	11	10	1	6	12	30	0	0	0	0	0	0	0	1109.	20.0			
BDA (C) FPQ-6	1	6	11	10	1	6	12	30	0	0	0	0	0	0	0	1109.	20.0			
BDA (S) USB-30*	1	6	11	10	1	6	12	30	0	0	0	0	0	0	0	1109.	20.0			
ANG (S) USB-30*	1	6	9	48	1	6	19	13	1	6	17	53	6	55	22.2	434.	20.1			
ASC (C) TPQ-18	1	6	24	10	1	6	33	52	1	6	10	57	6	22	11.7	1247.	20.2			
ACN (S) USB-30*	1	6	24	12	1	6	33	53	1	6	25	46	1	6	32	8	813.	20.2		
PRE (C) MPS-25M	1	6	35	41	1	6	47	11	1	6	37	2	1	6	32	8	11.5	1252.	20.4	
TAN (C) FPS-16M	1	6	41	54	1	6	50	58	1	6	43	53	1	6	45	52	589.	20.4		
CRO (C) FPQ-6	1	6	58	58	1	7	3	3	0	0	0	0	0	0	0	1.8	1291.	20.4		
CRO (S) USB-30*	1	6	58	58	1	7	3	3	0	0	0	0	0	0	0	1.8	1070.	20.5		
GWM (S) USB-30*	1	7	9	38	1	7	17	45	1	7	10	48	5	45	25.4	844.	20.5			
HAW (C) FPS-16M	1	7	25	36	1	7	30	1	0	0	0	0	0	0	2.9	783.	20.7			
HAW (S) USB-30*	1	7	25	36	1	7	30	2	4	25	0	0	0	0	2.9	783.	20.8			
CAL (C) FPS-16	1	7	32	20	1	7	40	10	1	7	43	22	1	7	38	51	414.	20.9		
GDS (S) USB-85*	1	7	33	8	1	7	40	37	8	44	1	7	39	11	12.0	1028.	20.9			
GYM (S) USB-30*	1	7	34	37	1	7	43	22	1	7	35	36	1	7	32	9	920.	21.0		
WHS (C) FPS-16M	1	7	35	34	1	7	43	5	1	7	37	2	1	7	41	29	983.	21.0		
MIL (S) USB-30*	1	7	44	20	1	7	44	48	0	28	0	0	0	0	0	0	1113.	21.0		
PAT (C) FPQ-6	1	7	44	11	1	7	45	18	1	7	45	18	0	0	0	0	1103.	21.0		
TEX (S) USB-30*	1	7	37	45	1	7	45	46	8	1	7	39	8	5	3	11.0	902.	21.0		
GBI (C) TPQ-18	1	7	44	29	1	7	46	46	2	16	0	0	0	0	0	0	1132.	21.0		
GBM (S) USB-30*	1	7	44	35	1	7	46	46	2	11	0	0	0	0	0	0	1132.	21.0		
ASC (S) USB-30*	1	8	6	21	1	8	6	35	0	14	0	0	0	0	0	0	1373.	21.2		
PRE (C) FPS-16M	1	8	6	26	1	8	6	29	0	3	0	0	0	0	0	0	1375.	21.2		
TAN (C) MPS-25M	1	8	12	56	1	8	24	16	11	19	1	8	14	20	8	42	27.5	1085.	21.4	
WHS (S) USB-30*	1	8	18	37	1	8	28	59	10	21	1	8	20	4	7	39	19.2	1123.	21.4	
GWM (S) USB-30*	1	8	49	27	1	8	51	28	2	0	0	0	0	0	0	0	843.	843.	21.6	
HAW (C) FPS-16M	1	9	1	51	1	9	8	11	6	20	1	9	3	42	2	36	6.9	821.	21.8	
HAW (S) USB-30*	1	9	1	51	1	9	8	11	6	20	1	9	3	42	2	36	6.9	821.	21.8	
RED (S) USB-30*	1	9	6	1	1	9	9	52	3	50	0	0	0	0	0	0	1.9	920.	21.9	
CAL (C) FPS-16	1	9	9	59	1	9	14	23	4	24	0	0	0	0	0	0	2.3	973.	21.9	
GDS (S) USB-85*	1	9	12	23	1	9	12	35	0	11	0	0	0	0	0	0	1	1057.	1057.	21.9
GYM (S) USB-30*	1	9	12	8	1	9	17	57	5	48	0	0	0	0	0	0	4.1	1017.	877.	21.9
PRE (C) MPS-25M	1	9	49	48	1	10	1	7	11	19	1	9	51	2	1	10	0	54.3	1218.	22.4
TAN (C) FPS-16M	1	9	55	13	1	10	5	50	10	37	1	10	4	41	8	1	56.1	1034.	248.	22.4
HAW (C) FPS-16M	1	10	37	26	1	10	46	15	8	48	1	10	38	33	1	10	27.7	760.	306.	22.8

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(b) LM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO				
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	
HAW (S) USB-30*	1	10	37	26	1	10	46	15	1	10	38	33	1	10	45	3	29	27.7	760.	306.	22.8		
RED (S) USB-30*	1	10	40	29	1	10	49	26	1	10	41	27	1	10	48	8	40	26.2	958.	339.	22.9		
PRE (C) MPS-25M	1	11	27	10	1	11	36	24	1	11	28	44	1	11	35	6	21	14.3	1051.	625.	23.3		
TAN (C) FPS-16M	1	11	33	43	1	11	39	51	0	0	0	0	0	0	0	0	0	4.6	1079.	898.	23.4		
HAW (C) FPS-16M	1	12	13	57	1	12	22	27	1	12	15	12	1	12	21	3	5	14.6	946.	540.	23.8		
HAW (S) USB-30*	1	12	13	57	1	12	22	27	1	12	15	12	1	12	21	3	5	14.6	946.	540.	23.8		
RED (S) USB-30*	1	12	16	44	1	12	25	58	1	12	17	56	1	12	24	25	6	33	17.4	940.	511.	23.8	
ASC (C) TPQ-18	1	12	57	39	1	13	4	45	1	13	0	25	1	13	0	46	0	20	5.1	1182.	983.	24.2	
ACN (S) USB-30*	1	13	41	25	1	13	4	47	1	13	0	26	1	13	0	42	0	16	5.0	1184.	981.	24.2	
GWM (S) USB-30*	1	13	41	25	1	13	45	25	0	0	0	0	0	0	0	0	0	1.8	929.	888.	24.7		
ASC (C) TPQ-18	1	14	33	0	1	14	43	1	1	14	34	21	1	14	41	59	7	38	40.7	974.	282.	25.2	
ACN (S) USB-30*	1	14	33	1	1	14	43	2	1	14	34	23	1	14	42	0	7	37	40.9	970.	280.	25.2	
GWM (S) USB-30*	1	15	15	38	1	15	24	53	1	15	16	43	1	15	23	41	6	57	29.9	1084.	319.	25.7	
HTV (S) USB-30*	1	15	23	52	1	15	34	4	1	15	25	1	1	15	32	40	7	39	24.9	1039.	448.	25.8	
MER (S) USB-30*	1	15	31	2	1	15	41	31	1	15	32	25	1	15	40	2	7	36	18.0	1177.	637.	25.8	
ASC (C) TPQ-18	1	16	10	38	1	16	18	12	1	16	12	18	1	16	16	44	4	25	9.7	836.	646.	26.2	
ACN (S) USB-30*	1	16	10	39	1	16	18	13	1	16	12	20	1	16	16	44	4	23	9.6	840.	648.	26.2	
GWM (S) USB-30*	1	16	52	11	1	17	1	10	1	16	53	27	1	16	59	41	6	13	15.0	1108.	578.	26.7	
HTV (S) USB-30*	1	17	0	5	1	17	10	51	1	17	1	16	1	17	9	31	8	15	23.2	1279.	514.	26.8	
MER (S) USB-30*	1	17	6	39	1	17	18	40	1	17	7	46	1	17	17	30	9	43	76.4	1347.	268.	26.8	
CYI (C) MPS25	1	17	52	19	1	17	59	16	1	17	53	43	1	17	57	52	4	8	10.5	952.	493.	27.2	
CYI (S) USB-30*	1	17	52	19	1	17	59	16	1	17	53	43	1	17	57	52	4	8	10.5	953.	493.	27.2	
MAD (S) USB-85*	1	18	0	13	1	18	0	29	1	18	0	0	1	18	0	0	0	0	0	0	893.	893.	27.3
HSK (S) USB-85*	1	18	37	35	1	18	45	23	1	18	40	4	1	18	42	49	2	45	5.7	1243.	1035.	27.7	
HTV (S) USB-30*	1	18	39	24	1	18	45	38	1	18	45	3	1	18	42	49	0	0	3.5	1248.	1159.	27.7	
MER (S) USB-30*	1	18	43	44	1	18	55	23	1	18	45	3	1	18	54	2	8	59	23.9	1233.	571.	27.8	
ANG (S) USB-30*	1	19	17	28	1	19	24	17	1	19	19	25	1	19	22	39	3	13	7.4	911.	677.	28.1	
VAN (S) USB-30*	1	19	25	5	1	19	28	1	1	19	25	0	1	19	22	0	0	0	1.5	860.	860.	28.1	
CYI (C) MPS25	1	19	28	12	1	19	35	56	1	19	29	8	1	19	34	49	5	41	44.6	876.	160.	28.2	
CYI (S) USB-30*	1	19	28	12	1	19	35	56	1	19	29	8	1	19	34	49	5	41	44.6	876.	160.	28.2	
MAD (S) USB-85*	1	19	32	16	1	19	38	24	1	19	33	49	1	19	36	53	3	4	7.1	859.	558.	28.3	
CRO (C) FPQ-5	1	20	4	22	1	20	13	15	1	20	6	2	1	20	11	23	5	20	9.8	1226.	838.	28.6	
CRO (S) USB-30*	1	20	4	22	1	20	13	15	1	20	6	3	1	20	11	23	5	20	9.8	1227.	839.	28.6	
HSK (S) USB-85*	1	20	11	45	1	20	23	12	1	20	13	1	1	20	21	52	8	51	24.0	1247.	557.	28.7	
MER (S) USB-30*	1	20	21	10	1	20	32	21	1	20	22	37	1	20	31	3	8	25	20.9	1151.	616.	28.8	
GBI (C) TPQ-18	1	20	53	35	1	20	56	49	1	20	53	0	1	20	56	0	0	0	1.3	925.	918.	29.1	
GBM (S) USB-30*	1	20	53	35	1	20	56	49	1	20	53	0	1	20	56	0	0	0	1.3	924.	917.	29.1	

-----0 DEGREE ELEVATION ANGLE-----

-----5 DEGREE ELEVATION ANGLE-----

-----RANGE AND ELEVATION-----

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	
BDA (C) FPS-16M	1	20	56	23	1	21	0	51	0	0	0	0	0	2.9	953.	779.	29.1
BDQ (C) FPQ-6	1	20	56	23	1	21	0	51	0	0	0	0	0	2.9	953.	779.	29.1
BDA (S) USB-30*	1	20	56	23	1	21	0	51	0	0	0	0	0	2.9	953.	779.	29.1
ANG (S) USB-30*	1	20	53	2	1	21	1	17	1	20	54	18	5	57	747.	280.	29.1
VAN (S) USB-30*	1	20	58	48	1	21	6	11	1	21	0	0	5	6	592.	305.	29.2
CYI (C) MPS26	1	21	5	8	1	21	12	12	1	21	6	28	4	30	14.6	638.	29.2
CYI (S) USB-30*	1	21	5	8	1	21	12	12	1	21	6	28	4	30	14.6	638.	29.2
MAD (S) USB-35*	1	21	7	51	1	21	14	44	1	21	9	7	4	21	873.	449.	29.3
CRO (C) FPQ-6	1	21	39	6	1	21	51	0	1	21	40	20	9	26	1279.	291.	29.6
CRO (S) USB-30*	1	21	39	6	1	21	51	0	1	21	40	20	9	26	1279.	291.	29.6
HSK (S) USB-85*	1	21	47	43	1	21	59	54	1	21	48	55	9	42	1225.	336.	29.7
MER (S) USB-30*	1	21	58	10	1	22	9	38	1	22	9	25	8	57	1320.	393.	29.8
TEX (S) USB-30*	1	22	25	17	1	22	29	39	1	22	0	0	0	0	861.	828.	30.0
MIL (S) USB-30*	1	22	27	14	1	22	34	31	1	22	28	37	4	49	14.0	888.	30.1
PAT (C) FPQ-6	1	22	27	11	1	22	34	33	1	22	28	33	4	55	14.9	885.	30.1
GBI (C) TPQ-18	1	22	27	16	1	22	35	5	1	22	28	32	5	33	20.3	775.	30.1
GBM (S) USB-30*	1	22	27	16	1	22	35	6	1	22	28	32	5	33	20.3	773.	30.1
ANG (S) USB-30*	1	22	31	32	1	22	36	16	1	22	30	0	0	0	3.4	797.	30.1
BDQ (C) FPS-16M	1	22	30	52	1	22	38	21	1	22	32	4	5	18	23.9	598.	30.1
BDQ (S) USB-30*	1	22	30	52	1	22	38	21	1	22	32	4	5	18	23.9	598.	30.1
VAN (S) USB-30*	1	22	34	57	1	22	42	35	1	22	36	4	5	38	47.1	874.	30.2
CYI (C) MPS26	1	22	41	47	1	22	49	16	1	22	42	55	5	5	13.8	804.	30.2
CYI (S) USB-30*	1	22	41	47	1	22	49	16	1	22	42	55	5	5	13.8	804.	30.2
MAD (S) USB-85*	1	22	44	4	1	22	50	26	1	22	45	43	3	3	7.3	842.	30.2
TAN (C) FPS-16M	1	23	6	14	1	23	6	40	0	0	0	0	0	.1	1219.	1219.	30.4
CRO (C) FPQ-6	1	23	15	54	1	23	27	43	1	23	17	7	9	13	29.9	488.	30.6
CRO (S) USB-30*	1	23	15	54	1	23	27	43	1	23	17	8	9	14	29.9	487.	30.6
HSK (S) USB-85*	1	23	24	20	1	23	36	18	1	23	25	30	9	40	62.6	1362.	30.7
MER (S) USB-30*	1	23	35	1	1	23	45	58	1	23	36	23	8	26	40.8	1040.	30.8
GYM (S) USB-30*	1	23	57	27	2	0	4	12	2	0	2	47	3	39	9.0	812.	31.0
WHS (C) FPS-16M	1	23	59	27	2	0	5	9	2	0	2	1	0	47	5.7	801.	31.0
TEX (S) USB-30*	2	0	3	21	2	0	7	29	2	0	4	44	5	37	23.8	791.	31.0
MIL (S) USB-30*	2	0	3	21	2	0	11	4	2	0	4	32	5	34	24.8	768.	31.1
PAT (C) FPQ-6	2	0	3	22	2	0	11	3	2	0	4	33	5	32	23.8	771.	31.1
GBI (C) TPQ-18	2	0	3	57	2	0	11	21	2	0	5	2	5	9	17.0	817.	31.1
GBM (S) USB-30*	2	0	3	58	2	0	11	22	2	0	5	3	5	9	17.0	818.	31.1

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO			
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	ELEV	RANGE	RANGE	RANGE				
BDA (C) FPS-16M	2	0	7	7	2	0	14	47	2	0	8	18	2	0	13	53	5	35	38.2	837.	178.	31.1
BDQ (C) FPQ-6	2	0	7	7	2	0	14	47	2	0	8	18	2	0	13	53	5	35	38.2	837.	178.	31.1
BDA (S) USB-30*	2	0	7	7	2	0	14	47	2	0	8	18	2	0	13	53	5	35	38.2	838.	177.	31.1
VAN (S) USB-30*	2	0	11	25	2	0	19	17	7	51	2	0	12	32	2	0	18	12	26.6	776.	243.	31.2
MAD (S) USB-85*	2	0	22	22	2	0	22	45	2	0	0	0	0	0	0	0	0	0	1	973.	973.	31.2
CYI (C) MPS26	2	0	17	54	2	0	26	19	8	25	2	0	18	49	2	0	25	14	44.4	818.	193.	31.2
CYI (S) USB-30*	2	0	17	54	2	0	26	19	8	25	2	0	18	49	2	0	25	14	44.4	818.	193.	31.2
TAN (C) FPS-16M	2	0	37	14	2	0	37	14	10	50	2	0	38	30	2	0	46	41	27.8	1031.	454.	31.2
GRO (C) FPQ-9	2	0	53	20	2	0	48	4	11	12	2	0	54	46	2	1	3	13	20.1	1338.	636.	31.6
CRO (S) USB-30*	2	0	53	20	2	1	4	33	2	1	4	33	2	1	3	13	2	1	20.2	1337.	635.	31.6
HSK (S) USB-85*	2	1	1	5	2	1	12	13	11	8	2	1	2	30	2	1	11	2	27.5	1107.	486.	31.7
HTV (S) USB-30*	2	1	10	18	2	1	19	19	9	0	2	1	11	56	2	1	17	49	11.9	1262.	713.	31.8
MER (S) USB-30*	2	1	13	35	2	1	19	42	6	7	0	0	0	0	0	0	0	4.2	1128.	974.	31.8	
RED (S) USB-30*	2	1	22	53	2	1	31	9	8	16	2	1	24	16	2	1	30	1	16.6	833.	441.	31.9
CAL (C) FPS-16	2	1	32	36	2	1	38	47	6	11	2	1	34	13	3	2	7	7	887.	557.	31.9	
GDS (S) USB-85*	2	1	33	18	2	1	39	40	6	22	2	1	34	43	2	1	38	13	8.8	888.	518.	31.9
GYM (S) USB-30*	2	1	34	7	2	1	40	52	7	45	2	1	34	21	2	1	39	48	74.7	885.	120.	32.0
WHS (C) FPS-16M	2	1	34	20	2	1	42	5	7	45	2	1	35	37	2	1	41	0	36.7	880.	185.	32.0
TEX (S) USB-30*	2	1	36	24	2	1	43	37	7	13	2	1	37	35	2	1	42	28	21.7	903.	280.	32.0
PAT (C) FPQ-9	2	1	40	26	2	1	47	22	6	55	2	1	41	40	2	1	46	7	15.3	908.	364.	32.0
MIL (S) USB-30*	2	1	40	24	2	1	47	22	6	58	2	1	41	36	2	1	46	9	16.3	908.	347.	32.0
GBI (C) TPQ-18	2	1	41	11	2	1	47	40	6	29	2	1	42	32	2	1	46	17	10.5	911.	462.	32.0
GBM (S) USB-30*	2	1	41	11	2	1	47	41	6	29	2	1	42	32	2	1	46	18	10.5	911.	462.	32.0
BDA (C) FPS-16M	2	1	43	40	2	1	51	22	7	42	2	1	44	44	2	1	50	24	52.8	889.	147.	32.1
BDQ (C) FPQ-6	2	1	43	40	2	1	51	22	7	42	2	1	44	44	2	1	50	24	52.8	889.	147.	32.1
BDA (S) USB-30*	2	1	43	40	2	1	51	22	7	42	2	1	44	44	2	1	50	24	52.9	889.	147.	32.1
VAN (S) USB-30*	2	1	47	48	2	1	55	58	8	9	2	1	48	51	2	1	54	49	40.1	912.	193.	32.2
CYI (C) MPS26	2	1	54	18	2	1	54	18	8	16	2	1	55	31	2	2	1	8	14.5	849.	502.	32.2
CYI (S) USB-30*	2	1	54	18	2	1	54	18	8	16	2	1	55	31	2	2	1	8	14.5	849.	502.	32.2
PRE (C) MPS-25M	2	2	11	36	2	2	20	34	8	57	2	2	13	20	2	2	18	42	9.2	1114.	858.	32.4
TAN (C) FPS-16M	2	2	13	16	2	2	25	0	11	43	2	2	14	23	2	2	23	48	60.9	966.	285.	32.4
GRO (C) FPQ-9	2	2	30	24	2	2	41	37	11	12	2	2	31	47	2	2	40	21	21.9	1261.	575.	32.6
CRO (S) USB-30*	2	2	30	25	2	2	41	37	11	12	2	2	31	47	2	2	40	21	21.9	1261.	574.	32.6
HSK (S) USB-85*	2	2	38	25	2	2	47	17	8	52	2	2	40	13	2	2	45	41	10.4	1223.	796.	32.7
HTV (S) USB-30*	2	2	46	24	2	2	56	23	9	59	2	2	47	36	2	2	55	14	44.5	1094.	261.	32.7
HAW (C) FPS-16M	2	2	58	46	2	2	58	46	7	9	2	2	3	0	13	4	3	4	10.6	963.	514.	32.8
HAW (S) USB-30*	2	2	58	46	2	2	58	46	7	9	2	2	3	0	13	4	3	4	10.6	963.	514.	32.8

-----0 DEGREE ELEVATION ANGLE-----5 DEGREE ELEVATION ANGLE-----RANGE AND ELEVATION----

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MFSN STATION NAME	0 DEGREE ELEVATION ANGLE				5 DEGREE ELEVATION ANGLE				RANGE AND ELEVATION				
	ACQUISITION DAY HR MIN SEC	LOSS DAY HR MIN SEC	DURATION MIN SEC	ACQUISITION DAY HR MIN SEC	LOSS DAY HR MIN SEC	DURATION MIN SEC	ACQUISITION DAY HR MIN SEC	LOSS DAY HR MIN SEC	DURATION MIN SEC	MAX ELEV	MAX RANGE	MIN RANGE	REV NO
RED (S) USB-30*	2 2 59 20	2 3 7 24	8 4	2 3 0 30	2 3 6 29	5 58	2 3 0 30	2 3 6 29	5 58	28.7	845.	257.	32.9
CAL (C) FPS-16	2 3 8 7	2 3 15 30	7 22	2 3 9 17	2 3 14 29	5 11	2 3 9 17	2 3 14 29	5 11	17.6	804.	328.	33.0
GDS (S) USB-85*	2 3 9 3	2 3 16 22	7 19	2 3 10 1	2 3 15 7	5 6	2 3 10 1	2 3 15 7	5 6	21.7	897.	278.	33.0
GYM (S) USB-30*	2 3 9 53	2 3 17 11	7 17	2 3 11 8	2 3 16 9	5 0	2 3 11 8	2 3 16 9	5 0	18.3	875.	318.	33.0
WHS (C) FPS-16M	2 3 10 59	2 3 18 37	7 37	2 3 11 50	2 3 17 30	5 39	2 3 11 50	2 3 17 30	5 39	49.6	876.	146.	33.0
TEX (S) USB-30*	2 3 13 12	2 3 20 14	7 1	2 3 14 22	2 3 18 51	4 28	2 3 14 22	2 3 18 51	4 28	13.3	698.	405.	33.0
MIL (S) USB-30*	2 3 16 48	2 3 24 25	7 36	2 3 17 48	2 3 23 5	5 11	2 3 17 48	2 3 23 5	5 11	17.8	861.	341.	33.1
PAT (C) FPQ-6	2 3 16 52	2 3 24 25	7 33	2 3 17 53	2 3 23 36	5 11	2 3 17 53	2 3 23 36	5 11	15.1	616.	351.	33.1
GBI (C) TPQ-18	2 3 17 31	2 3 24 52	7 21	2 3 18 45	2 3 23 36	4 50	2 3 18 45	2 3 23 36	4 50	15.1	614.	393.	33.1
GBM (S) USB-30*	2 3 17 31	2 3 24 53	7 21	2 3 18 46	2 3 23 36	4 50	2 3 18 46	2 3 23 36	4 50	15.1	614.	393.	33.1
BDA (C) FPS-16M	2 3 19 46	2 3 28 3	8 17	2 3 20 55	2 3 26 52	5 56	2 3 20 55	2 3 26 52	5 56	30.9	813.	239.	33.1
BDQ (C) FPQ-6	2 3 19 46	2 3 28 3	8 17	2 3 20 55	2 3 26 52	5 56	2 3 20 55	2 3 26 52	5 56	30.9	813.	239.	33.1
BDA (S) USB-30*	2 3 22 56	2 3 28 46	5 49	2 3 20 0	2 3 26 52	0 0	2 3 20 0	2 3 26 52	0 0	4.7	929.	730.	33.1
VAN (C) USB-30*	2 3 24 12	2 3 31 50	7 38	2 3 25 34	2 3 30 20	4 45	2 3 25 34	2 3 30 20	4 45	11.0	935.	543.	33.1
ASC (C) TPQ-18	2 3 35 45	2 3 45 0	9 14	2 3 37 9	2 3 43 29	6 20	2 3 37 9	2 3 43 29	6 20	13.3	930.	662.	33.2
ACN (S) USB-30*	2 3 35 45	2 3 45 1	9 15	2 3 37 9	2 3 43 31	6 21	2 3 37 9	2 3 43 31	6 21	13.4	925.	660.	33.2
PRE (C) MPS-25M	2 3 46 22	2 3 58 17	11 54	2 3 47 31	2 3 56 58	9 27	2 3 47 31	2 3 56 58	9 27	44.4	1165.	357.	33.4
TAN (C) FPS-16M	2 3 50 46	2 4 1 24	10 37	2 3 52 14	2 3 59 54	7 39	2 3 52 14	2 3 59 54	7 39	14.8	1320.	749.	33.4
CRO (C) FPQ-6	2 4 7 15	2 4 18 37	11 21	2 4 8 29	2 4 17 28	8 58	2 4 8 29	2 4 17 28	8 58	63.2	972.	262.	33.6
CRO (S) USB-30*	2 4 7 15	2 4 18 37	11 21	2 4 8 29	2 4 17 28	8 58	2 4 8 29	2 4 17 28	8 58	63.2	972.	262.	33.6
HTV (S) USB-30*	2 4 24 32	2 4 30 59	6 27	2 4 26 50	2 4 28 32	1 41	2 4 26 50	2 4 28 32	1 41	5.5	1032.	788.	33.7
HAM (C) FPS-16M	2 4 34 47	2 4 42 32	7 45	2 4 35 47	2 4 41 25	5 37	2 4 35 47	2 4 41 25	5 37	31.1	898.	218.	33.8
HAW (S) USB-30*	2 4 34 47	2 4 42 32	7 45	2 4 35 47	2 4 41 25	5 37	2 4 35 47	2 4 41 25	5 37	31.1	898.	218.	33.8
RED (S) USB-30*	2 4 38 23	2 4 41 52	3 28	2 4 35 47	2 4 41 25	5 37	2 4 35 47	2 4 41 25	5 37	31.1	898.	218.	33.8
CAL (C) FPS-16	2 4 44 14	2 4 52 1	7 46	2 4 45 15	2 4 50 55	0 0	2 4 45 15	2 4 50 55	0 0	1.5	839.	813.	33.8
GDS (S) USB-85*	2 4 45 7	2 4 52 47	7 39	2 4 46 0	2 4 51 43	5 39	2 4 46 0	2 4 51 43	5 39	23.3	725.	267.	34.0
GYM (S) USB-30*	2 4 46 46	2 4 54 1	7 15	2 4 47 53	2 4 52 42	4 49	2 4 47 53	2 4 52 42	4 49	46.9	549.	156.	34.0
WHS (C) FPS-16M	2 4 47 18	2 4 55 7	7 49	2 4 48 16	2 4 54 10	5 54	2 4 48 16	2 4 54 10	5 54	61.1	942.	135.	34.0
TEX (S) USB-30*	2 4 49 34	2 4 57 20	7 46	2 4 50 43	2 4 56 13	5 29	2 4 50 43	2 4 56 13	5 29	21.9	933.	303.	34.0
MIL (S) USB-30*	2 4 52 58	2 5 1 22	8 23	2 4 53 48	2 5 0 19	6 30	2 4 53 48	2 5 0 19	6 30	69.3	985.	146.	34.1
PAT (C) FPQ-6	2 4 53 1	2 5 1 22	8 24	2 4 53 51	2 5 0 22	6 31	2 4 53 51	2 5 0 22	6 31	76.2	974.	141.	34.1
GBI (C) TPQ-18	2 4 53 32	2 5 2 11	8 39	2 4 54 35	2 5 0 57	6 22	2 4 54 35	2 5 0 57	6 22	45.3	823.	190.	34.1
GBM (S) USB-30*	2 4 53 32	2 5 2 12	8 40	2 4 54 35	2 5 0 57	6 22	2 4 54 35	2 5 0 57	6 22	44.9	821.	191.	34.1
BDA (C) FPS-16M	2 4 56 30	2 5 3 33	7 2	2 4 58 8	2 5 1 48	3 39	2 4 58 8	2 5 1 48	3 39	7.8	994.	646.	34.1
BDQ (C) FPQ-6	2 4 56 30	2 5 3 33	7 2	2 4 58 8	2 5 1 48	3 39	2 4 58 8	2 5 1 48	3 39	7.8	994.	646.	34.1
BDA (S) USB-30*	2 4 56 30	2 5 3 33	7 2	2 4 58 8	2 5 1 48	3 39	2 4 58 8	2 5 1 48	3 39	7.8	994.	646.	34.1

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		RANGE AND ELEVATION							
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	REV						
ANG (S) USB-30*	2	4	58	0	2	5	7	11	2	5	7	4	2	5	6	4	6	55	35.6	1117.	270.	34.1
ASC (C) TPQ-18	2	5	11	18	2	5	22	24	2	5	12	24	2	5	21	2	8	38	38.9	1073.	355.	34.2
ACN (S) USB-30*	2	5	11	19	2	5	22	25	2	5	12	25	2	5	21	2	8	37	38.7	1070.	356.	34.2
PRE (C) MPS-25M	2	5	23	7	2	5	34	56	2	5	24	18	2	5	33	42	9	23	36.3	996.	422.	34.4
TAN (C) FPS-16M	2	5	29	3	2	5	38	9	2	5	31	1	2	5	36	7	5	6	8.5	1376.	961.	34.4
CRO (C) FPQ-6	2	5	44	26	2	5	54	11	2	5	45	51	2	5	52	53	7	1	17.9	1180.	567.	34.6
GWD (S) USB-30*	2	5	47	26	2	5	54	11	2	5	45	51	2	5	52	53	7	1	17.8	1180.	568.	34.6
GWM (S) USB-30*	2	5	57	38	2	6	5	59	2	6	5	59	2	6	4	45	5	47	16.6	800.	431.	34.7
HAW (C) FPS-16M	2	6	12	35	2	6	18	11	2	6	14	46	2	6	15	34	0	48	5.6	819.	609.	34.8
HAW (S) USB-30*	2	6	12	35	2	6	18	11	2	6	14	46	2	6	15	34	0	48	5.6	819.	609.	34.8
CAL (C) FPS-16	2	6	20	35	2	6	28	24	2	6	21	39	2	6	27	13	5	33	39.2	898.	190.	34.9
GDS (S) USB-85*	2	6	21	22	2	6	28	56	2	6	22	28	2	6	27	57	5	29	26.5	897.	263.	34.9
GYM (S) USB-30*	2	6	23	0	2	6	30	53	2	6	24	4	2	6	29	56	5	51	47.5	914.	174.	35.0
WHS (C) FPS-16M	2	6	23	38	2	6	31	24	2	6	24	43	2	6	30	23	5	40	26.8	916.	270.	35.0
TEX (S) USB-30*	2	6	25	47	2	6	33	52	2	6	26	51	2	6	32	46	5	55	28.6	944.	256.	35.0
MIL (S) USB-30*	2	6	29	50	2	6	36	16	2	6	31	41	2	6	34	27	2	45	7.8	770.	592.	35.0
PAT (C) FPQ-6	2	6	29	51	2	6	36	22	2	6	31	38	2	6	34	39	3	1	8.1	770.	581.	35.0
GBI (C) TPQ-18	2	6	30	29	2	6	37	5	2	6	32	6	2	6	35	32	3	25	7.7	925.	597.	35.0
GBM (S) USB-30*	2	6	30	29	2	6	37	5	2	6	32	7	2	6	35	32	3	24	7.6	924.	598.	35.0
ANG (S) USB-30*	2	6	35	23	2	6	41	44	2	6	37	10	2	6	39	52	2	42	7.3	818.	605.	35.1
ASC (C) TPQ-18	2	6	51	56	2	6	53	39	2	6	53	39	2	6	53	39	0	0	7	905.	905.	35.2
ACN (S) USB-30*	2	7	1	1	2	7	8	13	2	7	2	20	2	7	6	46	4	26	11.6	730.	486.	35.4
PRE (C) MPS-25M	2	7	1	13	2	7	11	38	2	7	2	20	2	7	6	46	0	0	11.6	730.	486.	35.4
TAN (C) FPS-16M	2	7	7	13	2	7	11	38	2	7	2	20	2	7	6	46	0	0	11.6	730.	486.	35.4
GWM (S) USB-30*	2	7	31	53	2	7	39	36	2	7	33	10	2	7	38	24	5	14	15.1	833.	410.	35.7
HAW (C) FPS-16M	2	7	47	10	2	7	52	44	2	7	52	44	2	7	52	44	0	0	4.1	741.	741.	35.8
HAW (S) USB-30*	2	7	47	10	2	7	52	44	2	7	52	44	2	7	52	44	0	0	4.1	741.	741.	35.8
CAL (C) FPS-16	2	7	54	34	2	8	1	31	2	8	1	31	2	8	0	4	4	3	9.0	886.	554.	35.9
GDS (S) USB-85*	2	7	55	36	2	8	1	46	2	8	1	46	2	8	0	4	1	59	6.7	820.	630.	35.9
GYM (S) USB-30*	2	7	57	1	2	8	4	34	2	8	4	34	2	8	3	20	5	11	16.8	635.	381.	35.9
WHS (C) FPS-16M	2	7	58	24	2	8	3	44	2	8	3	44	2	8	3	20	0	0	4.6	869.	714.	35.9
TEX (S) USB-30*	2	8	0	49	2	8	6	6	2	8	6	6	2	8	6	6	0	0	4.2	930.	729.	36.0
PRE (C) MPS-25M	2	8	35	12	2	8	42	54	2	8	42	54	2	8	41	47	5	24	18.7	606.	354.	36.4
TAN (C) FPS-16M	2	8	40	17	2	8	47	48	2	8	41	33	2	8	46	30	4	57	12.4	827.	464.	36.4
GWM (S) USB-30*	2	9	9	38	2	9	11	13	2	9	11	13	2	9	11	13	0	0	4	932.	932.	36.6
HAW (C) FPS-16M	2	9	21	12	2	9	28	9	2	9	22	39	2	9	26	35	3	56	9.9	747.	529.	36.8
HAW (S) USB-30*	2	9	21	12	2	9	28	9	2	9	22	39	2	9	26	35	3	56	9.9	747.	529.	36.8

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	0 DEGREE ELEVATION ANGLE			5 DEGREE ELEVATION ANGLE			RANGE AND ELEVATION			
	ACQUISITION DAY HR MIN SEC	LOSS DAY HR MIN SEC	DURATION MIN SEC	ACQUISITION DAY HR MIN SEC	LOSS DAY HR MIN SEC	DURATION MIN SEC	MAX ELEV	MAX RANGE	MIN RANGE	REV NO
RED (S) USB-30*	2 9 25	2 9 30	4 55	0 0 0	0 0 0	0 0	3.4	820.	772.	36.9
PRE (C) MPS-25M	2 10 9	2 10 17	8 8	2 10 10	2 10 16	6 11	49.5	882.	167.	37.4
TAN (C) FPS-16M	2 10 14	2 10 22	7 59	2 10 15	2 10 20	5 38	20.3	784.	329.	37.4
HAW (C) FPS-16M	2 10 54	2 11 2	8 3	2 10 55	2 11 2	4 6	70.1	946.	136.	37.8
HAW (S) USB-30*	2 10 54	2 11 2	8 3	2 10 55	2 11 2	4 6	70.2	946.	136.	37.8
RED (S) USB-30*	2 10 57	2 11 6	8 10	2 10 55	2 11 4	5 49	22.4	734.	308.	37.9
PRE (C) MPS-25M	2 11 44	2 11 49	5 18	0 0 0	0 0 0	C 0	4.5	857.	713.	38.3
HAW (C) FPS-16M	2 12 29	2 12 35	6 5	2 12 31	2 12 33	1 47	6.6	807.	629.	38.8
HAW (S) USB-30*	2 12 29	2 12 35	6 5	2 12 31	2 12 33	1 47	6.6	807.	629.	38.8
RED (S) USB-30*	2 12 32	2 12 38	6 18	2 12 34	2 12 37	2 51	6.5	941.	632.	38.8
ASC (C) TPO-18	2 13 12	2 13 15	3 36	0 0 0	0 0 0	C 0	1.6	880.	858.	39.2
ACN (S) USB-30*	2 13 12	2 13 15	3 36	0 0 0	0 0 0	C 0	1.6	880.	858.	39.2
GWM (S) USB-30*	2 13 53	2 13 58	4 28	0 0 0	0 0 0	0 0	2.6	830.	808.	39.7
ASC (C) TPO-18	2 14 44	2 14 52	8 10	2 14 45	2 14 51	6 0	33.4	812.	223.	40.2
ACN (S) USB-30*	2 14 44	2 14 52	8 10	2 14 45	2 14 51	6 0	34.0	816.	220.	40.2
GWM (S) USB-30*	2 15 26	2 15 34	8 10	2 15 27	2 15 32	5 48	24.9	761.	282.	40.7
HTV (S) USB-30*	2 15 34	2 15 42	7 42	2 15 35	2 15 41	8 5	18.7	894.	349.	40.7
MER (S) USB-30*	2 15 42	2 15 48	6 46	2 15 43	2 15 47	3 45	9.1	797.	547.	40.8
ASC (C) TPO-18	2 16 19	2 16 25	5 31	0 0 0	0 0 0	0 0	4.6	931.	710.	41.2
ACN (S) USB-30*	2 16 19	2 16 25	5 29	0 0 0	0 0 0	0 0	4.5	929.	711.	41.2
GWM (S) USB-30*	2 17 0	2 17 7	6 7	2 17 2	2 17 5	2 28	5.7	940.	661.	41.7
HTV (S) USB-30*	2 17 9	2 17 16	7 3	2 17 10	2 17 14	4 15	10.9	752.	498.	41.7
MER (S) USB-30*	2 17 15	2 17 23	8 12	2 17 16	2 17 22	6 11	46.4	853.	175.	41.8
CYI (C) MPS-26	2 17 57	2 18 4	7 11	2 17 58	2 18 3	4 29	12.4	670.	466.	42.2
CYI (S) USB-30*	2 17 57	2 18 4	7 11	2 17 58	2 18 3	4 29	12.3	670.	466.	42.2
MAD (S) USB-85*	2 18 3	2 18 6	2 43	0 0 0	0 0 0	0 0	1.3	877.	877.	42.3
MER (S) USB-30*	2 18 49	2 18 57	7 21	2 18 51	2 18 56	4 39	11.8	892.	482.	42.8
ANG (S) USB-30*	2 19 20	2 19 26	6 2	2 19 22	2 19 25	2 18	5.7	919.	665.	43.1
VAN (S) USB-30*	2 19 27	2 19 31	3 15	0 0 0	0 0 0	0 0	1.5	932.	862.	43.2
CYI (C) MPS-26	2 19 30	2 19 38	8 6	2 19 31	2 19 38	6 17	63.1	929.	145.	43.2
CYI (S) USB-30*	2 19 30	2 19 38	8 6	2 19 31	2 19 38	6 17	63.2	929.	145.	43.2
MAD (S) USB-85*	2 19 34	2 19 41	6 46	2 19 36	2 19 40	3 44	8.5	924.	573.	43.3
CRO (C) FPQ-6	2 20 8	2 20 13	4 22	0 0 0	0 0 0	0 0	2.7	921.	794.	43.6
CRO (S) USB-30*	2 20 8	2 20 13	4 22	0 0 0	0 0 0	0 0	2.7	921.	795.	43.6
HSK (S) USB-85*	2 20 15	2 20 22	7 7	2 20 17	2 20 21	4 22	11.7	722.	481.	43.7
MER (S) USB-30*	2 20 24	2 20 31	6 58	2 20 26	2 20 30	3 59	9.2	918.	551.	43.8
GBI (C) TPO-18	2 20 54	2 20 56	2 24	0 0 0	0 0 0	0 0	.6	912.	912.	44.0

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	ACQUISITION		LCSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO				
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	
GBM (S) USB-30*	2	20	54	33	2	20	56	58	2	25	2	25	0	0	0	0	0	0	0	0	0
BDA (C) FPS-16M	2	20	56	52	2	21	1	21	4	29	4	29	0	0	0	0	0	0	0	0	0
BDQ (C) FPQ-6	2	20	56	52	2	21	1	21	4	29	4	29	0	0	0	0	0	0	0	0	0
BDA (S) USB-30*	2	20	56	52	2	21	1	21	4	29	4	29	0	0	0	0	0	0	0	0	0
ANG (S) USB-30*	2	20	53	34	2	21	1	48	8	14	8	14	2	20	54	45	2	21	0	44	5
VAN (S) USB-30*	2	20	59	6	2	21	6	50	7	43	7	43	2	21	0	12	2	21	5	44	5
CYI (C) MPS26	2	21	5	15	2	21	12	59	7	43	7	43	2	21	6	26	2	21	11	53	5
CYI (S) USB-30*	2	21	5	15	2	21	12	59	7	43	7	43	2	21	6	26	2	21	11	53	5
MAD (S) USB-85*	2	21	40	39	2	21	15	24	7	21	7	21	2	21	6	26	2	21	11	53	5
CRO (C) FPQ-6	2	21	40	39	2	21	48	44	8	5	8	5	2	21	9	24	2	21	14	7	4
CRO (S) USB-30*	2	21	40	39	2	21	48	44	8	4	8	4	2	21	41	36	2	21	47	42	6
HSK (S) USB-85*	2	21	49	3	2	21	57	1	7	58	7	58	2	21	41	36	2	21	47	42	6
MER (S) USB-30*	2	21	58	45	2	22	6	38	7	52	7	52	2	21	59	1	2	21	56	4	6
TEX (S) USB-30*	2	22	25	52	2	22	27	27	3	35	3	35	0	0	0	0	0	0	0	0	0
MIL (S) USB-30*	2	22	25	19	2	22	32	43	7	23	7	23	2	22	26	36	2	22	31	28	4
PAT (C) FPQ-6	2	22	25	16	2	22	32	44	7	27	7	27	2	22	26	31	2	22	31	31	4
GBM (S) USB-30*	2	22	25	19	2	22	33	15	7	55	7	55	2	22	26	27	2	22	32	13	5
ANG (S) USB-30*	2	22	29	7	2	22	34	52	5	44	5	44	0	0	0	0	0	0	0	0	0
BDA (C) FPQ-6	2	22	28	49	2	22	36	41	7	51	7	51	2	22	29	50	2	22	35	33	5
BDQ (C) FPQ-6	2	22	28	49	2	22	36	41	7	51	7	51	2	22	29	50	2	22	35	33	5
BDA (S) USB-30*	2	22	28	49	2	22	36	40	7	51	7	51	2	22	29	50	2	22	35	33	5
VAN (S) USB-30*	2	22	32	48	2	22	40	57	8	8	8	8	2	22	33	43	2	22	40	2	6
CYI (C) MPS26	2	22	39	34	2	22	47	28	7	53	7	53	2	22	40	50	2	22	46	21	5
CYI (S) USB-30*	2	22	39	34	2	22	47	28	7	53	7	53	2	22	40	50	2	22	46	21	5
MAD (S) USB-85*	2	22	42	3	2	22	48	30	6	26	6	26	2	22	43	53	2	22	46	47	2
CRO (S) USB-30*	2	23	14	59	2	23	22	39	7	40	7	40	2	23	16	4	2	23	21	27	5
HSK (S) USB-85*	2	23	22	57	2	23	30	56	7	58	7	58	2	23	16	4	2	23	21	28	5
MER (S) USB-30*	2	23	32	46	2	23	40	18	7	31	7	31	2	23	23	53	2	23	25	59	6
GYM (S) USB-30*	2	23	53	20	2	23	59	50	6	29	6	29	2	23	54	56	2	23	58	4	4
WHS (C) FPS-16M	2	23	55	16	3	0	0	47	5	30	5	30	0	0	0	0	0	0	0	0	0
TEX (S) USB-30*	2	23	55	14	3	0	3	14	7	59	7	59	3	0	0	0	3	0	2	14	5
MIL (S) USB-30*	2	23	58	51	3	0	6	57	8	5	8	5	2	23	59	46	2	23	59	46	6
PAT (C) FPQ-6	2	23	58	52	3	0	6	57	8	5	8	5	2	23	59	46	2	23	59	46	6
GBI (C) TPQ-16	2	23	59	17	3	0	7	19	8	1	8	1	3	0	0	24	3	0	6	17	5
GBM (S) USB-30*	2	23	59	17	3	0	7	19	8	1	8	1	3	0	0	24	3	0	6	18	5



TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	ACQUISITION			LCSS			DURATION			ACQUISITION			LOSS			DURATION			MAX ELEV			MIN RANGE			REV NO										
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN
CAL (C) FPS-16	3	2	58	43	3	3	6	42	7	59	3	2	59	42	3	3	5	38	5	56	29.4	904.	251.	47.9											
GDS (S) USB-85*	3	2	59	28	3	3	7	31	8	3	3	3	0	38	3	3	6	28	5	50	25.9	847.	276.	48.0											
GYM (S) USB-30*	3	3	0	36	3	3	8	30	7	53	3	3	1	41	3	3	7	17	5	35	20.5	887.	333.	48.0											
WHS (C) FPS-16M	3	3	1	29	3	3	9	47	8	18	3	3	2	37	3	3	8	44	6	6	36.6	788.	211.	48.0											
TEX (S) USB-30*	3	3	3	45	3	3	11	28	7	42	3	3	5	4	3	3	10	17	5	12	15.3	861.	411.	48.0											
MIL (S) USB-30*	3	3	7	25	3	3	15	29	8	4	3	3	8	36	3	3	14	26	5	50	25.1	851.	284.	48.1											
PAT (C) FPQ-9	3	3	7	28	3	3	15	31	8	2	3	3	8	40	3	3	14	27	5	46	23.4	847.	300.	48.1											
GBI (C) TPQ-18	3	3	8	11	3	3	16	4	7	52	3	3	9	22	3	3	14	49	5	26	16.6	810.	387.	48.1											
GBM (S) USB-30*	3	3	8	12	3	3	16	4	7	52	3	3	9	22	3	3	14	49	5	26	16.7	811.	386.	48.1											
BDA (C) FPS-16M	3	3	10	45	3	3	18	42	7	57	3	3	11	45	3	3	17	37	5	52	27.6	916.	263.	48.1											
BDQ (C) FPQ-9	3	3	10	45	3	3	18	42	7	57	3	3	11	45	3	3	17	37	5	52	27.6	916.	263.	48.1											
BDA (S) USB-30*	3	3	10	45	3	3	18	42	7	57	3	3	11	45	3	3	17	37	5	52	27.6	916.	263.	48.1											
ANG (S) USB-30*	3	3	13	35	3	3	19	56	6	20	3	3	15	35	3	3	17	37	5	52	27.6	916.	263.	48.1											
VAN (S) USB-30*	3	3	15	40	3	3	21	45	6	4	3	3	17	54	3	3	19	39	2	22	7.2	795.	613.	48.1											
ASC (C) TPQ-18	3	3	27	13	3	3	34	26	7	12	3	3	28	32	3	3	33	4	4	32	12.8	822.	636.	48.1											
ACN (S) USB-30*	3	3	27	14	3	3	34	27	7	13	3	3	28	32	3	3	33	6	4	33	12.9	822.	636.	48.1											
PRE (C) FPS-16M	3	3	38	12	3	3	46	26	8	13	3	3	39	14	3	3	45	17	6	3	36.7	792.	207.	48.4											
TAN (C) FPS-16M	3	3	43	24	3	3	48	43	5	19	0	0	0	0	0	0	0	0	0	0	3.8	759.	747.	48.4											
CRO (S) USB-30*	3	3	57	53	3	4	6	11	8	18	3	3	59	2	3	4	4	4	5	55	29.1	732.	250.	48.6											
CRO (S) USB-30*	3	3	57	53	3	4	6	11	8	18	3	3	59	2	3	4	4	4	5	55	29.1	732.	250.	48.6											
HTV (S) USB-30*	3	4	14	56	3	4	17	43	2	46	0	0	0	0	0	0	0	0	0	0	1.0	942.	883.	48.7											
RED (S) USB-30*	3	4	26	56	3	4	30	31	3	34	0	0	0	0	0	0	0	0	0	0	1.8	948.	850.	48.8											
HAW (C) FPS-16M	3	4	23	12	3	4	31	7	7	54	3	4	24	18	3	4	30	6	5	48	25.8	923.	276.	48.8											
HAW (S) USB-30*	3	4	23	12	3	4	31	7	7	54	3	4	24	18	3	4	30	6	5	48	25.8	923.	276.	48.8											
CAL (C) FPS-16	3	4	32	30	3	4	40	43	8	13	3	4	33	28	3	4	39	42	6	13	49.9	864.	168.	48.9											
GDS (S) USB-85*	3	4	33	17	3	4	41	28	8	11	3	4	34	21	3	4	40	29	6	7	39.0	852.	201.	49.0											
GYM (S) USB-30*	3	4	35	2	3	4	42	47	7	45	3	4	36	7	3	4	41	39	5	32	20.1	586.	337.	49.0											
WHS (C) FPS-16M	3	4	35	34	3	4	43	53	8	19	3	4	36	44	3	4	42	48	6	3	33.9	765.	223.	49.0											
TEX (S) USB-30*	3	4	37	53	3	4	46	2	8	9	3	4	39	5	3	4	44	51	5	46	20.4	744.	333.	49.0											
MIL (S) USB-30*	3	4	41	26	3	4	49	37	8	11	3	4	42	35	3	4	48	36	6	0	32.3	816.	232.	49.1											
PAT (C) FPQ-9	3	4	41	29	3	4	49	41	8	12	3	4	42	38	3	4	48	39	6	0	32.3	816.	232.	49.1											
GBI (C) TPQ-18	3	4	42	8	3	4	50	23	8	15	3	4	43	12	3	4	49	14	6	1	34.0	803.	222.	49.1											
GBM (S) USB-30*	3	4	42	8	3	4	50	24	8	15	3	4	43	12	3	4	49	14	6	2	34.2	790.	221.	49.1											
BDA (C) FPS-16M	3	4	45	47	3	4	50	55	5	8	0	0	0	0	0	0	0	0	0	0	3.8	799.	744.	49.1											
BDQ (C) FPQ-9	3	4	45	47	3	4	50	55	5	8	0	0	0	0	0	0	0	0	0	0	3.8	799.	744.	49.1											
BDA (S) USB-30*	3	4	45	47	3	4	50	55	5	8	0	0	0	0	0	0	0	0	0	0	3.8	799.	744.	49.1											
ANG (S) USB-30*	3	4	46	56	3	4	54	58	8	1	3	4	47	50	3	4	54	54	6	15	88.4	945.	128.	49.1											

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	ACQUISITION			LOSS			DURATION			ACQUISITION			LOSS			DURATION			MAX ELEV			MIN RANGE			REV NO										
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN
ASC (C) TPQ-18	3	5	1	1	3	5	8	33	7	32	3	5	2	8	3	5	7	18	5	9	16.8	637.	376.	49.2											
ACN (S) USB-30*	3	5	1	2	3	5	8	33	7	31	3	5	2	10	3	5	7	18	5	7	16.6	636.	378.	49.2											
PRE (C) MPS-25M	3	5	12	40	3	5	20	19	7	39	3	5	13	48	3	5	19	1	5	12	16.4	893.	386.	49.4											
TAN (C) FPS-16M	3	5	19	51	3	5	22	1	2	10	0	0	0	0	3	5	0	0	0	0	1.0	891.	491.	49.4											
CRO (C) FPQ-5	3	5	32	45	3	5	38	51	6	6	3	5	34	37	3	5	37	5	2	27	5.9	914.	656.	49.6											
CRO (S) USB-30*	3	5	32	45	3	5	38	51	6	6	3	5	34	37	3	5	37	4	2	27	5.9	915.	657.	49.6											
GWM (S) USB-30*	3	5	44	2	3	5	52	0	7	58	3	5	45	11	3	5	50	49	5	37	18.9	761.	348.	49.7											
HAM (S) FPS-16M	3	5	58	28	3	5	6	4	6	15	3	6	0	23	3	6	2	58	2	34	6.4	872.	641.	49.8											
HAM (S) USB-30*	3	5	58	28	3	5	6	4	6	15	3	6	0	23	3	6	2	58	2	34	6.4	872.	641.	49.8											
CAL (C) FPS-16	3	6	6	30	3	6	14	33	8	2	3	6	7	32	3	6	13	25	5	53	27.9	868.	261.	49.9											
GDS (S) USB-85*	3	6	9	2	3	6	15	4	7	45	3	6	8	30	3	6	14	2	5	32	20.8	927.	327.	50.0											
GYM (S) USB-30*	3	6	9	2	3	6	17	10	8	8	3	6	9	59	3	6	16	16	6	16	66.8	907.	140.	50.0											
WHS (C) FPS-16M	3	6	9	42	3	6	17	31	7	49	3	6	10	59	3	6	16	25	5	25	18.4	839.	357.	50.0											
TEX (S) USB-30*	3	6	11	57	3	6	20	0	8	2	3	6	13	8	3	6	18	49	5	41	19.5	755.	341.	50.0											
MIL (S) USB-30*	3	6	16	35	3	6	21	51	5	16	0	0	0	0	0	0	0	0	0	0	4.4	893.	720.	50.0											
PAT (C) FPQ-6	3	6	16	35	3	6	21	58	5	23	0	0	0	0	0	0	0	0	0	0	4.6	893.	710.	50.0											
GBI (C) TPQ-18	3	6	17	14	3	6	22	43	5	28	0	0	0	0	0	0	0	0	0	0	4.1	734.	729.	50.0											
GBM (S) USB-30*	3	6	17	15	3	6	22	43	5	28	0	0	0	0	0	0	0	0	0	0	4.1	735.	729.	50.0											
ANG (S) USB-30*	3	6	22	20	3	6	27	12	4	51	0	0	0	0	0	0	0	0	0	0	3.6	906.	752.	50.1											
PRE (C) MPS-25M	3	6	47	20	3	6	54	32	7	11	3	6	48	43	3	6	53	9	4	25	11.9	669.	476.	50.4											
TAN (C) FPS-16M	3	6	53	19	3	6	58	21	5	2	0	0	0	0	0	0	0	0	0	0	3.4	784.	768.	50.4											
GWM (S) USB-30*	3	7	18	30	3	7	25	35	7	5	3	7	19	54	3	7	24	10	4	16	9.6	865.	536.	50.7											
HAM (C) FPS-16M	3	7	33	32	3	7	39	11	5	38	0	0	0	0	0	0	0	0	0	0	4.8	917.	707.	50.8											
HAW (S) USB-30*	3	7	41	2	3	7	47	20	6	17	3	7	42	44	3	7	45	33	2	48	6.6	884.	631.	50.9											
CAL (C) FPS-16	3	7	42	12	3	7	47	24	5	11	0	0	0	0	0	0	0	0	0	0	4.2	881.	727.	50.9											
GDS (S) USB-85*	3	7	43	25	3	7	50	27	7	2	3	7	44	50	3	7	49	2	4	12	11.2	680.	492.	50.9											
WHS (C) FPS-16M	3	7	45	24	3	7	49	6	3	41	0	0	0	0	0	0	0	0	0	0	2.0	925.	833.	50.9											
TEX (S) USB-30*	3	7	48	3	3	7	51	17	3	13	0	0	0	0	0	0	0	0	0	0	1.4	907.	867.	51.0											
PRE (C) MPS-25M	3	8	21	23	3	8	29	16	7	52	3	8	22	34	3	8	28	13	5	38	22.1	890.	310.	51.4											
TAN (C) FPS-16M	3	8	26	23	3	8	34	14	7	51	3	8	27	30	3	8	32	57	5	27	19.0	839.	346.	51.4											
HAM (C) FPS-16M	3	9	7	18	3	9	14	35	7	17	3	9	8	38	3	9	13	15	4	36	12.8	651.	455.	51.8											
HAM (S) USB-30*	3	9	7	18	3	9	14	35	7	17	3	9	8	38	3	9	13	15	4	36	12.8	650.	455.	51.8											
RED (S) USB-30*	3	9	10	56	3	9	16	51	5	54	3	9	12	57	3	9	13	7	0	10	5.0	947.	695.	51.9											
PRE (C) MPS-25M	3	5	55	22	3	10	3	22	7	59	3	9	56	30	3	10	2	22	5	51	28.5	864.	252.	52.4											
TAN (C) FPS-16M	3	10	0	31	3	10	8	0	7	28	3	10	1	43	3	10	6	42	4	58	13.9	864.	427.	52.4											
HAM (C) FPS-16M	3	10	41	3	3	10	49	7	8	3	3	10	42	1	3	10	48	12	6	11	57.0	913.	151.	52.8											

-----0 DEGREE ELEVATION ANGLE-----5 DEGREE ELEVATION ANGLE-----RANGE AND ELEVATION---

TABLE V.-0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	ACQUISITION			LCSS			DURATION			ACQUISITION			LOSS			DURATION			MAX ELEV			MIN RANGE			REV NO														
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN
HAW (S) USB-30*	3	10	41	3	3	10	49	6	8	3	3	10	42	1	3	10	48	12	6	11	56.9	913.	151.	52.8															
RED (S) USB-30*	3	10	43	58	3	10	52	13	8	15	3	10	45	5	3	10	51	1	5	55	30.6	747.	239.	52.9															
PRE (C) MPS-25M	3	11	31	31	3	11	34	37	3	6	0	0	0	0	0	0	0	0	0	0	1.6	851.	851.	53.3															
HAW (C) FPS-16M	3	12	16	32	3	12	21	8	4	35	0	0	0	0	0	0	0	0	0	0	3.1	915.	772.	53.8															
HAW (S) USB-30*	3	12	16	32	3	12	21	7	4	35	0	0	0	0	0	0	0	0	0	0	3.1	915.	772.	53.8															
RED (S) USB-30*	3	12	19	32	3	12	24	16	4	43	0	0	0	0	0	0	0	0	0	0	2.9	789.	784.	53.8															
ASC (C) TPQ-18	3	12	57	40	3	13	3	2	5	21	0	0	0	0	0	0	0	0	0	0	4.2	933.	724.	54.2															
ACN (S) USB-30*	3	12	57	41	3	13	3	3	5	22	0	0	0	0	0	0	0	0	0	0	4.3	929.	722.	54.2															
GWM (S) USB-30*	3	13	39	8	3	13	44	50	5	41	0	0	0	0	0	0	0	0	0	0	4.5	720.	715.	54.7															
ASC (C) TPQ-18	3	14	30	20	3	14	38	31	8	11	3	14	31	19	3	14	37	25	6	5	42.5	820.	184.	55.2															
ACN (S) USB-30*	3	14	30	21	3	14	38	32	8	10	3	14	31	20	3	14	37	26	6	5	43.3	824.	181.	55.2															
GWM (S) USB-30*	3	15	12	2	3	15	20	16	8	14	3	15	13	7	3	15	19	5	5	57	32.4	759.	227.	55.7															
HTV (S) USB-30*	3	15	20	33	3	15	28	35	8	2	3	15	21	31	3	15	27	29	5	57	33.9	861.	218.	55.7															
MER (S) USB-30*	3	15	27	46	3	15	35	11	7	25	3	15	29	6	3	15	34	0	4	53	14.1	906.	425.	55.8															
ASC (C) TPQ-18	3	16	6	37	3	16	9	52	3	15	0	0	0	0	0	0	0	0	0	0	1.4	903.	862.	56.2															
ACN (S) USB-30*	3	16	6	39	3	16	9	51	3	12	0	0	0	0	0	0	0	0	0	0	1.4	907.	862.	56.2															
GWM (S) USB-30*	3	16	47	47	3	16	52	9	4	22	0	0	0	0	0	0	0	0	0	0	2.4	812.	809.	56.6															
HTV (S) USB-30*	3	16	55	30	3	17	1	38	6	7	3	16	57	41	3	16	59	33	1	52	6.5	837.	631.	56.7															
MER (S) USB-30*	3	17	1	21	3	17	9	27	8	6	3	17	2	27	3	17	8	26	5	59	31.9	857.	232.	56.8															
CYI (C) MPS26	3	17	43	10	3	17	50	47	7	36	3	17	44	19	3	17	49	38	5	18	18.4	588.	355.	57.2															
CYI (S) USB-30*	3	17	48	27	3	17	52	51	4	23	0	0	0	0	0	0	0	0	0	0	2.8	882.	797.	57.3															
HSK (S) USB-85*	3	18	30	12	3	18	33	19	3	6	0	0	0	0	0	0	0	0	0	0	1.2	907.	873.	57.7															
MER (S) USB-30*	3	18	36	9	3	18	43	17	7	7	3	18	37	36	3	18	41	54	4	17	10.1	895.	523.	57.8															
ANG (S) USB-30*	3	19	6	14	3	19	13	15	7	1	3	19	7	40	3	19	11	53	4	13	10.0	894.	520.	58.1															
VAN (S) USB-30*	3	19	16	42	3	19	17	46	5	4	0	0	0	0	0	0	0	0	0	0	3.9	908.	740.	58.2															
CYI (C) MPS26	3	19	16	52	3	19	24	54	8	2	3	19	17	48	3	19	23	57	6	9	42.1	932.	188.	58.2															
CYI (S) USB-30*	3	19	20	33	3	19	27	32	6	59	3	19	17	48	3	19	23	57	6	9	42.1	932.	188.	58.2															
MAD (S) USB-85*	3	19	53	56	3	19	59	45	5	48	3	19	56	26	3	19	57	24	4	8	9.2	877.	548.	58.3															
CRO (C) FPQ-6	3	20	1	26	3	20	8	51	7	25	3	20	2	43	3	20	7	40	0	57	5.8	824.	657.	58.6															
CRO (S) USB-30*	3	20	1	26	3	20	17	49	5	48	3	20	2	43	3	20	7	40	0	57	5.8	824.	657.	58.6															
HSK (S) USB-85*	3	20	40	45	3	20	41	22	7	3	3	20	12	9	3	20	16	20	4	11	10.0	916.	526.	58.8															
MER (S) USB-30*	3	20	40	45	3	20	41	22	0	37	0	0	0	0	0	0	0	0	0	0	-2	929.	929.	59.0															
MIL (S) USB-30*	3	20	40	45	3	20	41	48	1	18	0	0	0	0	0	0	0	0	0	0	-5	912.	912.	59.0															
PAT (C) FPQ-6	3	20	39	8	3	20	43	51	4	42	0	0	0	0	0	0	0	0	0	0	3.2	835.	770.	59.1															
GBI (C) TPQ-18	3	20	39	8	3	20	43	51	4	43	0	0	0	0	0	0	0	0	0	0	3.2	834.	769.	59.1															
GBM (S) USB-30*	3	20	39	8	3	20	43	51	4	43	0	0	0	0	0	0	0	0	0	0	3.2	834.	769.	59.1															

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued

(b) LM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MAX RANGE		MIN RANGE		REV NO					
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR		MIN	SEC			
BDA (C) FPS-16M	3	20	42	6	3	20	47	48	3	20	44	41	3	20	45	14	3	20	45	14	5.4	825.	676.	59.1
BDQ (C) FPQ-6	3	20	42	6	3	20	47	48	3	20	44	41	3	20	45	14	3	20	45	14	5.4	825.	676.	59.1
BDA (S) USB-30*	3	20	42	6	3	20	47	48	3	20	44	41	3	20	45	14	3	20	45	14	5.4	825.	676.	59.1
ANG (S) USB-30*	3	20	39	38	3	20	47	37	3	20	40	52	3	20	46	32	5	39	22.2	821.	22.2	821.	308.	59.1
VAN (S) USB-30*	3	20	44	56	3	20	52	49	3	20	45	54	3	20	51	47	5	53	28.6	943.	17.6	628.	370.	59.2
CYI (C) MPS26	3	20	51	18	3	20	58	56	3	20	52	31	3	20	57	50	5	18	17.6	628.	17.6	628.	370.	59.2
CYI (S) USB-30*	3	20	51	18	3	20	58	56	3	20	52	31	3	20	57	50	5	18	17.6	628.	17.6	628.	370.	59.2
MAD (S) USB-85*	3	20	53	56	3	21	34	41	3	21	27	35	3	20	59	51	4	31	11.9	946.	11.9	946.	478.	59.3
CRO (C) FPQ-6	3	21	26	27	3	21	34	41	3	21	27	35	3	21	33	39	6	4	38.9	797.	38.9	797.	198.	59.6
CRO (S) USB-30*	3	21	26	27	3	21	34	42	3	21	27	35	3	21	33	39	6	4	38.8	796.	38.8	796.	198.	59.6
HSK (S) USB-85*	3	21	34	50	3	21	42	47	3	21	36	1	3	21	41	50	5	49	22.7	730.	22.7	730.	304.	59.7
MER (S) USB-30*	3	21	44	40	3	21	52	37	3	21	45	49	3	21	51	38	5	49	31.9	950.	31.9	950.	232.	59.8
TEX (S) USB-30*	3	22	8	31	3	22	14	30	3	22	0	0	0	0	0	0	0	0	4.8	989.	4.8	989.	743.	60.0
MIL (S) USB-30*	3	22	10	52	3	22	19	5	3	22	12	3	3	22	17	57	5	53	21.5	877.	21.5	877.	343.	60.1
PAT (C) FPQ-6	3	22	10	50	3	22	19	5	3	22	12	0	3	22	17	58	5	58	22.9	874.	22.9	874.	327.	60.1
GBI (C) TPQ-18	3	22	10	59	3	22	19	34	3	22	12	9	3	22	18	23	6	14	29.9	771.	29.9	771.	267.	60.1
GBM (S) USB-30*	3	22	10	59	3	22	19	34	3	22	12	9	3	22	18	23	6	14	29.8	769.	29.8	769.	267.	60.1
ANG (S) USB-30*	3	22	15	26	3	22	20	52	3	22	0	0	0	0	0	0	0	0	4.2	933.	4.2	933.	770.	60.1
BDA (C) FPS-16M	3	22	14	32	3	22	22	54	3	22	15	32	3	22	21	53	6	20	34.3	906.	34.3	906.	239.	60.1
BDQ (C) FPQ-6	3	22	14	32	3	22	22	54	3	22	15	32	3	22	21	53	6	20	34.3	906.	34.3	906.	239.	60.1
BDA (S) USB-30*	3	22	14	32	3	22	22	54	3	22	15	32	3	22	21	53	6	20	34.3	906.	34.3	906.	239.	60.1
VAN (S) USB-30*	3	22	18	40	3	22	27	12	3	22	19	42	3	22	26	10	6	28	46.8	832.	46.8	832.	187.	60.2
CYI (C) MPS26	3	22	25	33	3	22	33	43	3	22	26	44	3	22	32	28	5	43	20.4	801.	20.4	801.	340.	60.2
CYI (S) USB-30*	3	22	25	33	3	22	33	43	3	22	26	44	3	22	32	28	5	43	20.4	801.	20.4	801.	340.	60.2
MAD (S) USB-85*	3	22	28	10	3	22	34	14	3	22	30	10	3	22	32	10	2	0	5.8	923.	5.8	923.	678.	60.2
CRO (C) FPQ-6	3	23	1	14	3	23	8	20	3	23	2	36	3	23	7	5	4	29	13.2	676.	13.2	676.	415.	60.6
CRO (S) USB-30*	3	23	1	14	3	23	8	20	3	23	2	36	3	23	7	6	4	29	13.2	676.	13.2	676.	415.	60.6
HSK (S) USB-85*	3	23	8	53	3	23	16	44	3	23	9	59	3	23	15	45	5	45	30.6	890.	30.6	890.	230.	60.7
MER (S) USB-30*	3	23	18	45	3	23	26	23	3	23	19	56	3	23	25	14	5	18	17.9	608.	17.9	608.	367.	60.8
GYM (S) USB-30*	3	23	38	43	3	23	46	14	3	23	40	1	3	23	44	59	4	57	13.6	991.	13.6	991.	470.	61.0
WHS (C) FPS-16M	3	23	40	28	3	23	47	22	3	23	41	59	3	23	45	41	3	41	8.9	984.	8.9	984.	592.	61.0
TEX (S) USB-30*	3	23	41	0	3	23	49	31	3	23	42	8	3	23	48	18	6	18	31.2	789.	31.2	789.	289.	61.0
MIL (S) USB-30*	3	23	44	38	3	23	53	14	3	23	45	46	3	23	52	5	6	16	29.7	792.	29.7	792.	269.	61.1
PAT (C) FPQ-6	3	23	44	39	3	23	53	14	3	23	45	47	3	23	52	4	6	16	29.7	792.	29.7	792.	269.	61.1
GBI (C) TPQ-18	3	23	45	11	3	23	53	32	3	23	46	24	3	23	52	15	5	51	19.4	795.	19.4	795.	372.	61.1
GBM (S) USB-30*	3	23	45	12	3	23	53	33	3	23	46	25	3	23	52	16	5	51	19.5	797.	19.5	797.	372.	61.1
BDA (C) FPS-16M	3	23	48	23	3	23	57	1	3	23	49	24	3	23	55	57	6	32	48.0	834.	48.0	834.	187.	61.1

TABLE V. - 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Continued
(b) LM - Continued

MSFN STATION NAME	ACQUISITION		LOSS		DURATION		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO							
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	MIN	SEC	MAX	RANGE	MIN	RANGE	NO				
BDO (C) FPQ-6	3	23	48	23	3	23	57	1	8	37	3	23	49	24	3	23	55	57	6	32	48.0	834.	187.	61.1
BDA (S) USB-30*	3	23	48	23	3	23	57	1	8	37	3	23	49	24	3	23	55	57	6	32	48.1	834.	187.	61.1
VAN (S) USB-30*	3	23	52	43	4	0	1	24	8	41	3	23	53	32	4	0	0	11	6	19	32.7	748.	250.	61.2
CYI (C) MPS-26	3	23	59	30	4	0	8	0	8	30	4	0	0	33	4	0	6	58	6	25	41.0	852.	207.	61.2
CYI (S) USB-30*	3	23	59	30	4	0	8	0	8	30	4	0	0	33	4	0	6	58	6	25	41.0	852.	207.	61.2
TAN (C) FPS-16M	4	0	19	50	4	0	27	53	8	2	4	0	21	1	4	0	26	38	5	36	19.9	972.	354.	61.4
CRO (C) FPQ-5	4	0	36	5	4	0	43	5	6	59	4	0	37	37	4	0	41	33	3	56	8.5	899.	577.	61.6
CRO (S) USB-30*	4	0	36	5	4	0	43	5	6	59	4	0	37	37	4	0	41	33	3	56	8.6	899.	577.	61.6
HSK (S) USB-35*	4	0	43	19	4	0	43	19	6	56	4	0	44	49	4	0	48	54	4	5	10.6	741.	501.	61.7
HTV (S) USB-30*	4	0	51	30	4	0	57	51	6	21	4	0	53	18	4	0	56	6	2	47	8.0	759.	560.	61.7
RED (S) USB-30*	4	1	2	52	4	1	10	15	7	23	4	1	4	2	4	1	9	8	5	6	21.3	901.	295.	61.9
CAL (C) FPS-16	4	1	11	46	4	1	18	16	6	30	4	1	13	21	4	1	16	48	3	27	8.8	779.	527.	61.9
GDS (S) USB-85*	4	1	12	33	4	1	19	11	6	38	4	1	13	54	4	1	17	43	3	48	9.3	798.	513.	62.0
GYS (S) USB-30*	4	1	12	34	4	1	20	23	7	48	4	1	13	28	4	1	19	25	5	57	61.7	505.	135.	62.0
WHS (C) FPS-16M	4	1	13	49	4	1	21	41	7	51	4	1	14	50	4	1	20	29	5	39	25.8	770.	256.	62.0
TEX (S) USB-30*	4	1	15	35	4	1	23	13	7	38	4	1	16	46	4	1	22	7	5	20	16.9	782.	356.	62.0
MIL (S) USB-30*	4	1	19	30	4	1	27	0	7	30	4	1	20	44	4	1	25	54	5	9	15.9	824.	372.	62.1
PAT (C) FPQ-6	4	1	19	33	4	1	27	0	7	26	4	1	20	48	4	1	25	52	5	4	14.9	825.	388.	62.1
GBI (C) TPQ-18	4	1	20	22	4	1	27	23	7	1	4	1	21	37	4	1	26	1	4	23	11.3	887.	462.	62.1
GBM (S) USB-30*	4	1	20	22	4	1	27	23	7	1	4	1	21	38	4	1	26	1	4	23	11.3	889.	462.	62.1
ANG (S) USB-30*	4	1	28	28	4	1	28	33	0	4	0	0	0	0	0	0	0	0	0	0	0	910.	910.	62.1
BDA (C) FPS-16M	4	1	22	50	4	1	30	42	7	52	4	1	23	53	4	1	29	50	5	56	59.1	876.	138.	62.1
BDO (C) FPQ-6	4	1	22	50	4	1	30	42	7	52	4	1	23	53	4	1	29	50	5	56	59.1	876.	138.	62.1
BDA (S) USB-30*	4	1	22	50	4	1	30	42	7	52	4	1	23	53	4	1	29	50	5	56	59.2	877.	138.	62.1
VAN (S) USB-30*	4	1	27	10	4	1	34	46	7	36	4	1	28	23	4	1	33	47	5	24	22.9	860.	280.	62.2
CYI (C) MPS-26	4	1	35	5	4	1	39	42	4	36	0	0	0	0	0	0	0	0	0	0	3.0	756.	741.	62.2
CYI (S) USB-30*	4	1	35	5	4	1	39	42	4	36	0	0	0	0	0	0	0	0	0	0	3.0	756.	741.	62.2
PRE (C) MPS-25M	4	1	51	3	4	1	57	28	6	24	4	1	52	52	4	1	55	55	3	3	8.0	900.	537.	62.3
TAN (C) FPS-16M	4	1	54	2	4	2	1	5	7	2	4	1	55	16	4	1	59	51	4	34	15.4	894.	369.	62.4
CRO (C) FPQ-5	4	2	10	5	4	2	17	23	7	17	4	2	11	18	4	2	16	8	4	49	16.5	908.	368.	62.6
CRO (S) USB-30*	4	2	10	5	4	2	17	23	7	17	4	2	11	18	4	2	16	8	4	49	16.5	908.	368.	62.6
HTV (S) USB-30*	4	2	24	26	4	2	32	11	7	44	4	2	25	35	4	2	31	2	5	26	28.0	938.	254.	62.7
HAM (C) FPS-16M	4	2	35	5	4	2	42	57	7	51	4	2	36	14	4	2	41	52	5	37	22.3	937.	306.	62.8
HAM (S) USB-30*	4	2	35	5	4	2	42	57	7	51	4	2	36	14	4	2	41	52	5	37	22.3	937.	306.	62.8
RED (S) USB-30*	4	2	44	25	4	2	44	25	7	20	4	2	45	24	4	2	42	32	4	44	13.5	661.	439.	62.8
CAL (C) FPS-16	4	2	44	25	4	2	44	25	7	20	4	2	45	24	4	2	42	32	4	44	13.5	661.	439.	62.8
GDS (S) USB-85*	4	2	45	10	4	2	45	10	7	41	4	2	46	22	4	2	45	10	5	48	22.4	873.	206.	63.0

TABLE V.- 0° AND 5° ELEVATION ANGLE RADAR ACQUISITION AND LOSS SUMMARY - Concluded

(b) LM- Concluded

MSFN STATION NAME	ACQUISITION		LOSS		DURATICN		ACQUISITION		LOSS		DURATION		MAX ELEV		MIN RANGE		REV NO											
	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC	DAY	HR	MIN	SEC								
GYM (S) USB-30*	4	2	46	29	4	2	46	29	4	2	54	11	4	2	47	38	4	2	52	31	4	52	19.7	674.	343.	63.0		
WHS (C) FPS-16M	4	2	47	17	4	2	47	17	4	2	55	36	4	2	48	25	4	2	54	23	4	58	29.8	748.	247.	63.0		
TEX (S) USB-30*	4	2	47	38	4	2	57	22	4	2	57	22	4	2	50	50	4	2	56	5	4	14	15.8	831.	401.	63.0		
MIL (S) USB-30*	4	2	52	51	4	3	1	23	4	3	1	23	4	3	0	12	5	4	3	0	12	5	48	21.6	735.	317.	63.1	
PAT (C) FPQ-6	4	2	52	55	4	3	1	25	4	3	1	25	4	3	0	13	4	3	0	13	4	47	21.4	747.	319.	63.1		
GBI (C) TPQ-18	4	2	53	55	4	3	1	57	8	1	1	57	8	1	1	3	4	3	0	48	5	44	23.8	901.	294.	63.1		
GBM (S) USB-30*	4	2	53	56	4	3	1	57	8	1	1	57	8	1	1	4	4	3	0	48	5	44	23.9	903.	294.	63.1		
BDA (C) FPS-16M	4	2	56	34	4	3	4	15	7	4	1	15	7	4	1	4	4	3	3	12	5	28	20.4	603.	331.	63.1		
BDQ (C) FPQ-6	4	2	56	34	4	3	4	15	7	4	1	15	7	4	1	4	4	3	3	12	5	28	20.4	603.	331.	63.1		
BDA (S) USB-30*	4	2	56	34	4	3	4	15	7	4	1	15	7	4	1	4	4	3	3	12	5	28	20.4	603.	331.	63.1		
ANG (S) USB-30*	4	2	59	8	4	3	6	4	4	3	6	4	4	3	0	40	4	3	4	38	3	58	10.1	746.	520.	63.1		
VAN (S) USB-30*	4	3	1	54	4	3	1	54	4	3	6	50	4	3	0	0	0	0	0	0	0	0	0	3.7	893.	747.	63.1	
ASC (C) TPQ-18	4	3	12	41	4	3	12	42	4	3	20	22	4	3	13	51	4	3	19	21	5	30	21.7	924.	308.	63.2		
ACN (S) USB-30*	4	3	12	42	4	3	12	42	4	3	20	23	4	3	13	52	4	3	19	22	5	30	21.9	920.	305.	63.2		
PRE (C) MPS-25M	4	3	24	3	4	3	24	3	4	3	32	7	8	4	3	24	57	4	3	31	8	6	10	59.5	889.	146.	63.4	
TAN (C) FPS-16M	4	3	29	41	4	3	29	41	4	3	34	0	4	3	24	57	4	3	31	8	6	10	59.5	889.	146.	63.4		
CRO (S) USB-30*	4	3	43	42	4	3	43	42	4	3	51	52	8	9	4	42	4	3	50	45	6	3	37.6	832.	203.	63.6		
GWM (S) USB-30*	4	3	58	45	4	4	13	55	4	4	14	50	4	4	0	0	0	0	0	0	0	0	3.0	943.	779.	63.4		
RED (S) USB-30*	4	4	13	55	4	4	13	55	4	4	16	50	4	4	0	0	0	0	0	0	0	0	1.1	880.	880.	63.7		
HAW (C) FPS-16M	4	4	17	34	4	4	17	34	4	4	16	50	4	4	10	21	4	4	15	39	5	17	15.2	814.	407.	63.8		
HAW (S) USB-30*	4	4	17	34	4	4	17	34	4	4	16	50	4	4	10	21	4	4	15	39	5	17	15.2	814.	407.	63.8		
CAL (C) FPS-16	4	4	18	59	4	4	18	59	4	4	26	22	8	6	4	19	25	4	4	25	16	5	50	60.8	949.	147.	63.9	
GDS (S) USB-R5*	4	4	21	27	4	4	21	27	4	4	27	5	8	6	4	20	14	4	4	26	0	5	45	44.0	944.	182.	63.9	
GYM (S) USB-30*	4	4	20	50	4	4	20	50	4	4	28	28	7	38	4	4	22	1	4	27	21	5	20	22.5	951.	308.	64.0	
WHS (C) FPS-16M	4	4	21	27	4	4	21	27	4	4	29	21	7	54	4	4	22	33	4	4	28	19	5	45	79.3	946.	131.	64.0
TEX (S) USB-30*	4	4	23	45	4	4	23	45	4	4	31	26	7	41	4	4	24	53	4	4	30	21	5	28	39.4	962.	196.	64.0
MIL (S) USB-30*	4	4	27	21	4	4	27	21	4	4	35	40	8	18	4	4	28	28	4	4	34	12	5	43	39.0	947.	202.	64.1
PAT (C) FPQ-6	4	4	28	1	4	4	28	1	4	4	35	43	8	19	4	4	29	30	4	4	34	17	5	46	42.0	944.	191.	64.1
GBI (C) TPQ-18	4	4	28	1	4	4	28	1	4	4	36	37	8	35	4	4	29	6	4	4	35	13	6	7	56.5	1156.	160.	64.1
GBM (S) USB-30*	4	4	31	14	4	4	31	14	4	4	36	38	8	36	4	4	29	6	4	4	35	13	6	7	56.5	1155.	160.	64.1
BDQ (C) FPS-16M	4	4	31	14	4	4	31	14	4	4	39	5	7	50	4	4	32	48	4	4	36	44	3	55	8.5	696.	64.1	
BDQ (C) FPQ-6	4	4	31	14	4	4	31	14	4	4	39	5	7	50	4	4	32	48	4	4	36	44	3	55	8.5	696.	64.1	
BDA (S) USB-30*	4	4	31	14	4	4	31	14	4	4	39	5	7	50	4	4	32	48	4	4	36	44	3	55	8.5	696.	64.1	

TABLE VI.- SPACECRAFT LIGHTING SUMMARY

(a) CSM

ASSUMED LIFTOFF TIME: FEBRUARY 20, 1969 at 1600 HR G.M.T.

START IN LIGHT AT T = 0 : 3 : 25 :			.00			SUN-LIGHT, EARTH-SHIELD			START IN LIGHT AT T = 0 : 3 : 25 :			.00			MOON-LIGHT, EARTH-SHIELD			REVOLUTION								
D H M			S			LONG			D H M			S			LONG			D H M			S			LONG		
0	4	6	56.74	131.72		0	3	32	38.27	-4.94	0	4	19	24.81	172.33	0	3	42	19.46	28.53	3.21					
0	5	35	25.24	109.72		0	5	1	7.31	-26.95	0	5	48	5.39	150.99	0	5	10	52.93	6.91	3.31					
0	7	3	58.18	86.69		0	6	29	59.16	-47.91	0	7	16	59.71	129.00	0	6	39	56.80	-13.29	3.59					
0	8	32	52.67	64.75		0	7	58	47.26	-70.22	0	8	45	50.77	106.84	0	8	8	47.06	-35.35	4.15					
0	10	1	39.63	42.44		0	9	27	43.44	-92.10	0	10	14	54.42	85.44	0	9	37	48.97	-56.71	4.25					
0	11	30	34.89	20.55		0	10	56	30.21	-114.46	0	11	43	43.80	63.20	0	11	6	37.17	-78.87	4.53					
0	12	59	23.78	-1.66		0	12	25	22.74	-136.52	0	13	12	47.73	41.84	0	12	35	37.10	-100.32	4.66					
0	14	28	15.63	-23.71		0	13	54	13.44	-158.66	0	14	41	37.70	19.66	0	14	4	26.79	-122.36	5.11					
0	15	57	6.96	-45.79		0	15	23	2.90	179.14	0	16	10	39.53	158.82	0	15	33	23.00	-144.01	5.21					
0	17	25	54.55	-68.04		0	16	51	56.85	157.18	0	17	2	16.01	-165.84	0	17	2	16.01	-165.84	5.48					

TABLE VI.- SPACECRAFT LIGHTING SUMMARY - Continued
(a) CSM-Continued

-----SUNRISE-----			-----SUNSET-----			-----MOONRISE-----			-----MOONSET-----			REVOLUTION
D	H	M S	D	H	M S	D	H	M S	D	H	M S	
		LONG			LONG			LONG			LONG	
2	10	15 52.79	2	9	41 57.89	2	9	4 22.41	2	9	56 24.15	36.56
		37.39			-96.55			117.44			-45.55	36.96
2	11	45 4.00	2	11	11 16.31	2	10	33 42.33	2	11	25 41.93	37.34
		14.99			-118.67			95.49			-67.47	37.50
2	13	14 22.32	2	12	40 30.88	2	12	2 54.70	2	12	55 5.81	37.91
		-7.05			-140.97			73.07			-88.98	38.05
2	14	43 37.86	2	14	9 45.29	2	13	32 19.29	2	14	24 19.15	38.28
		-29.23			-163.27			51.44			-111.16	38.43
2	16	12 49.55	2	15	39 4.57	2	15	1 37.84	2	15	53 37.37	38.84
		-51.60			174.68			29.44			-133.02	39.00
2	17	42 8.10	2	17	8 16.20	2	16	30 50.77	2	17	23 1.46	39.21
		-73.62			152.25			7.09			-154.47	39.78
2	19	11 21.32	2	18	37 32.06	2	18	0 14.20	2	18	52 12.87	39.92
		-95.89			130.04			-14.57			-176.75	40.16
2	20	40 35.74	2	20	6 49.84	2	19	29 30.95	2	20	21 31.77	40.32
		-118.11			107.93			-36.64			161.48	40.73
2	22	9 52.50	2	21	36 1.04	2	20	58 45.13	2	21	50 54.95	41.08
		-140.21			85.51			-58.88			140.01	41.24
2	23	39 2.40	2	23	5 18.21	2	22	28 7.12	2	23	20 5.56	41.65
		-162.64			63.39			-80.59			117.72	41.82
3	1	8 20.73	3	0	34 32.11	2	23	57 21.51	2	23	0 25.28	42.03
		175.35			41.11			-102.78			96.04	42.19
3	2	37 35.28	3	2	3 45.39	3	1	26 37.76	3	0	49 25.28	42.60
		153.16			18.81			-124.84			74.38	42.74
3	4	6 46.78	3	3	33 3.74	3	2	55 57.93	3	3	47 57.43	42.97
		130.82			13.99			-146.62			52.24	43.14

TABLE VI.- SPACECRAFT LIGHTING SUMMARY- Continued
(a) CSM-Continued

SUNRISE			SUNSET			MOONRISE			MOONSET			REVOLUTION
D	H	M S	D	H	M S	D	H	M S	D	H	M S	
4	0	55	4	0	22	3	23	45	4	0	37	60.97
		57.33			10.72			30.29			49.39	61.35
		-179.91			45.53			-94.87			107.46	61.53
4	2	25	4	1	51	4	1	14	4	2	7	61.73
		5.95			20.17			39.31			12.04	62.29
		157.69			23.17			-117.24			86.24	62.47
4	3	54	4	3	20	4	2	43	4	3	36	62.66
		18.50			32.83			55.77			26.41	62.84
		135.49			.98			-139.04			64.41	63.24
4	5	23	4	4	49	4	4	13	4	5	5	63.43
		34.19			44.35			12.34			40.24	63.62
		113.45			-21.27			-160.81			42.55	63.79
4	6	52	4	6	18	4	5	42	4	6	34	64.17
		48.06			-43.62			23.26			53.09	64.35
		91.32						177.01			20.63	64.54
4	8	21	4	7	48	4	7	11	4	8	4	64.73
		55.86			8.62			36.55			13.37	65.11
		68.91			-65.66			155.02			39.40	65.30
4	9	51	4	9	17	4	8	40	4	9	33	65.49
		12.00			-88.06			52.39			26.21	66.06
		46.91						133.24			-22.61	66.24
4	11	20	4	10	46	4	10	9	4	11	2	66.42
		22.08			28.68			58.74			41.52	66.61
		24.62			-110.22			110.76			-44.32	66.99
4	12	49	4	12	15	4	11	39	4	12	32	67.17
		-75.84			-132.41			17.73			3.05	67.36
		-19.70						89.26			-65.52	67.53
4	14	18	4	13	44	4	13	8	4	14	1	68.12
		46.96			48.99			29.35			12.86	68.31
		-42.11			-154.73			67.21			-87.62	68.48
4	15	47	4	15	14	4	14	37	4	15	30	69.07
		-64.12			3.88			40.48			30.24	69.23
		-86.44			-176.73			45.14			-109.13	69.43
4	17	17	4	16	43	4	16	6	4	16	59	69.80
		9.44			9.70			56.14			48.87	69.99
		-86.44			160.82			23.44			-130.52	70.18
4	18	46	4	18	12	4	17	36	4	18	29	70.35
		18.16			21.96			2.17			.23	70.75
		-86.44			138.71			1.01			-152.48	70.94
												71.11
												71.30
												71.68
												71.86
												72.05
												72.25
												72.62
												72.81
												73.00

TABLE VI.- SPACECRAFT LIGHTING SUMMARY- Continued
(a) CSM-Continued

-----SUNRISE-----			-----SUNSET-----			-----MOONRISE-----			-----MOONSET-----			REVOLUTION								
D	H	M S	LONG	D	H	M S	LONG	D	H	M S	LONG									
7	5	50	21.75	107.41	7	5	15	52.49	-21.43	7	4	44	5.33	-135.12	7	5	43	20.63	85.98	109.86
7	7	20	18.75	84.97	7	6	45	47.56	-43.86	7	6	14	15.42	-156.40	7	7	13	39.64	64.67	110.18
7	8	50	15.47	62.54	7	8	15	42.45	-66.29	7	7	44	25.67	-177.65	7	8	43	59.11	43.39	110.53
7	10	20	11.89	40.10	7	9	45	37.15	-88.71	7	9	14	36.09	161.11	7	10	14	19.04	22.14	111.12
7	11	50	8.01	17.66	7	11	15	31.68	-111.13	7	10	44	46.71	139.90	7	11	44	39.45	-81.74	111.42
7	13	20	3.81	-4.78	7	12	45	26.04	-133.54	7	12	14	57.55	118.70	7	13	15	.35	-20.26	111.47
7	14	49	59.28	-27.23	7	14	15	20.23	-155.94	7	13	45	9.14	97.56	7	14	45	19.97	-41.50	111.74
7	16	19	54.41	-49.68	7	15	45	14.28	-178.34	7	15	15	23.56	76.59	7	16	15	38.91	-62.76	112.06
7	17	49	49.17	-72.14	7	17	15	8.17	159.27	7	16	45	37.81	55.61	7	17	45	57.92	-84.01	112.35
7	19	19	43.54	-94.60	7	18	44	59.77	136.76	7	18	15	51.95	34.61	7	19	16	16.98	-105.23	112.40
7	20	49	37.50	-117.07	7	20	14	50.82	114.24	7	19	46	6.02	13.61	7	20	46	36.07	-126.44	112.68
7	22	19	31.02	-139.55	7	21	44	41.84	91.72	7	21	16	20.05	-7.40	7	22	16	55.17	-147.64	112.99
7	23	49	24.05	-162.04	7	23	14	32.82	69.22	7	22	46	34.05	-28.40	7	23	47	13.47	-168.84	113.29

TABLE VI.- SPACECRAFT LIGHTING SUMMARY- Continued

(a) CSM-Concluded

SUNRISE			SUNSET			MOONRISE			MOONSET			REVOLUTION
D	H	M S	D	H	M S	D	H	M S	D	H	M S	LONG
9	16	14	9	15	39	9	15	22	9	16	20	146.57
												146.76
												147.09
												147.16
												147.51
												147.67
												148.03
												148.10
												148.45
												148.61
												148.97
												149.04
												149.38
												149.55
												149.91
												149.98
												150.32
												150.50
												150.84
												150.90

TABLE VII.- SM RCS DEORBIT MANEUVERS TO THE ENTRY INTERFACE

(a) Conditions at deorbit

Earth-fixed position	
Longitude, deg E	105.92
Geodetic latitude, deg	-31.43
Altitude, n. mi.	181.37
Time, g.e.t. ^a	9 ^d 23 ^h 15 ^m 40.29 ^s
Inertial velocity vector	
Velocity, fps	25 164.92
Flight-path angle, deg63
Azimuth angle, deg	77.81

(b) Conditions at reentry (400 000 ft)

Earth-fixed position	
Coast time, sec	2242
Longitude, deg W	104.20
Geodetic latitude, deg N	33.47
Inertial velocity vector	
Velocity, fps	25 892.9
Flight-path angle, deg	-0.967
Azimuth angle, deg	91.60
Target latitude, deg N	22.80
Target longitude, deg W	59.15

^aAt burn initiation.

TABLE VIII.- CM SEQUENCE OF EVENTS FOR REENTRY

	Time from lift-off, hr:min:sec	Entry time, min:sec	Geodetic latitude, deg	Longitude, deg	Altitude, ft	Inertial velocity, fps	Inertial flight-path angle, deg	Range to target, n. mi.
Entry interface	238:25:30.38	0	33.36	-89.70	400 000	25 798	-1.88	1572
0.05g	238:27:52.38	2:22	33.36	-78.46	282 538	25 905	-1.76	1007
Start Kepler phase	238:27:54.38	2:24	33.35	-78.30	280 935	25 904	-1.76	999
Entry final phase	238:28:30.38	3:00	33.17	-75.45	252 860	25 788	-1.65	855
Peak entry load factor	238:33:30.37	8:00	30.75	-59.48	109 794	6 140	-7.33	27
Guidance termination	238:34:40.37	9:10	30.62	-59.00	59 684	^a 1 002	^a -52.01	0.73
Drogue parachute deployment	238:35:38.89	10:08	30.64	-58.97	23 491	^a 467	^a -74.11	-1.26
Main parachute deployment	238:36:24.82	10:55	30.64	-58.97	10 200	^a 234	^a -89.9	-1.33
Touchdown	238:40:47.61	15:18	30.64	-58.97	-9	^a 30	^a -89.8	-1.46

^aRelative velocity and flight-path angle.

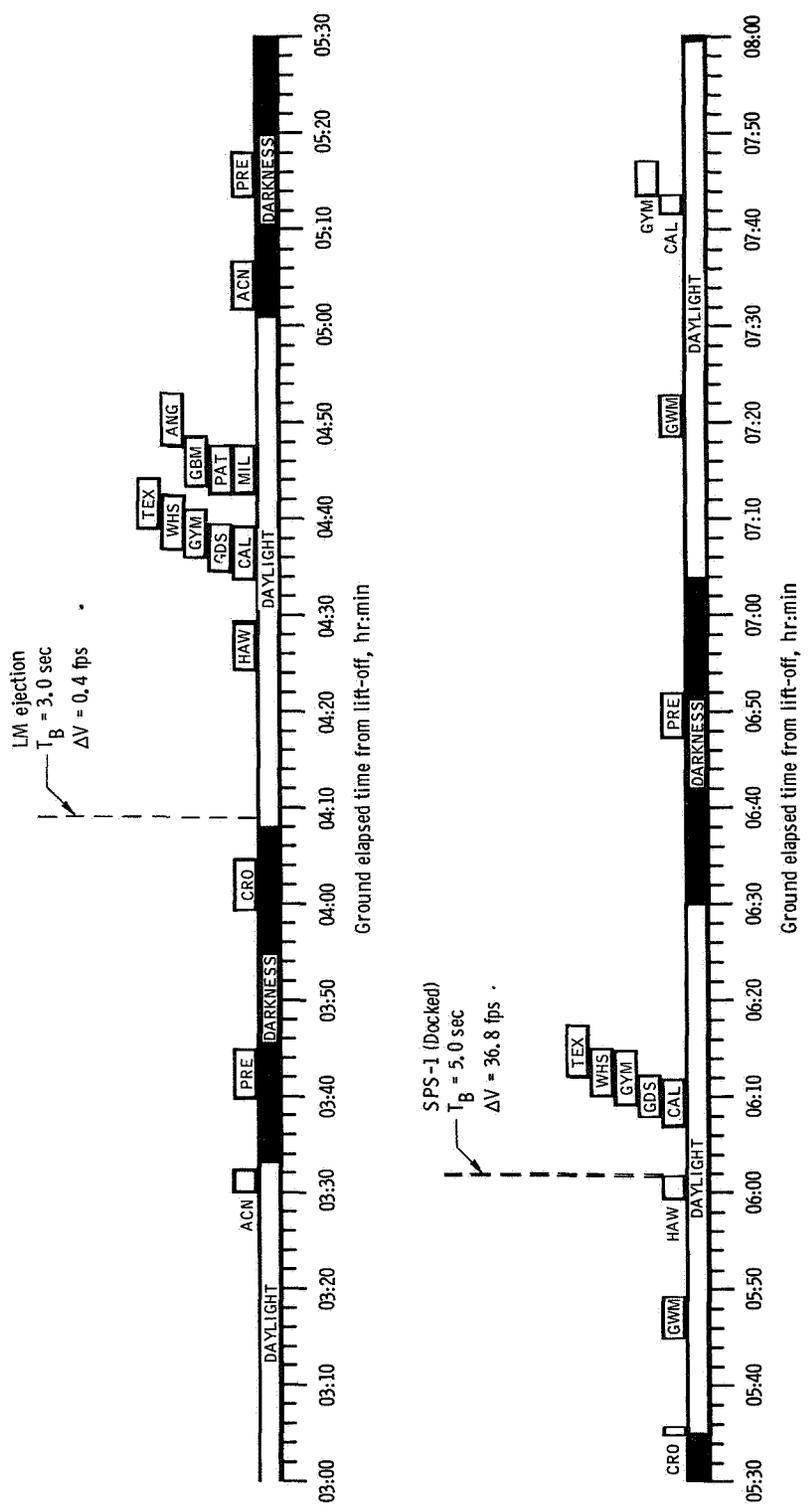
TABLE IX.- SPS DEORBIT MANEUVERS TO THE ENTRY INTERFACE

(a) Conditions at deorbit

Earth-fixed position	
Longitude, deg W	151.63
Geodetic latitude, deg	11.63
Altitude, n. mi.	180.28
Time at ullage ignition, hr:min:sec . .	9 ^d 22 ^h 9 ^m 40 ^s
Inertial velocity vector	
Velocity, fps	25 162.88
Flight-path angle, deg	-0.65
Azimuth angle, deg	58.48

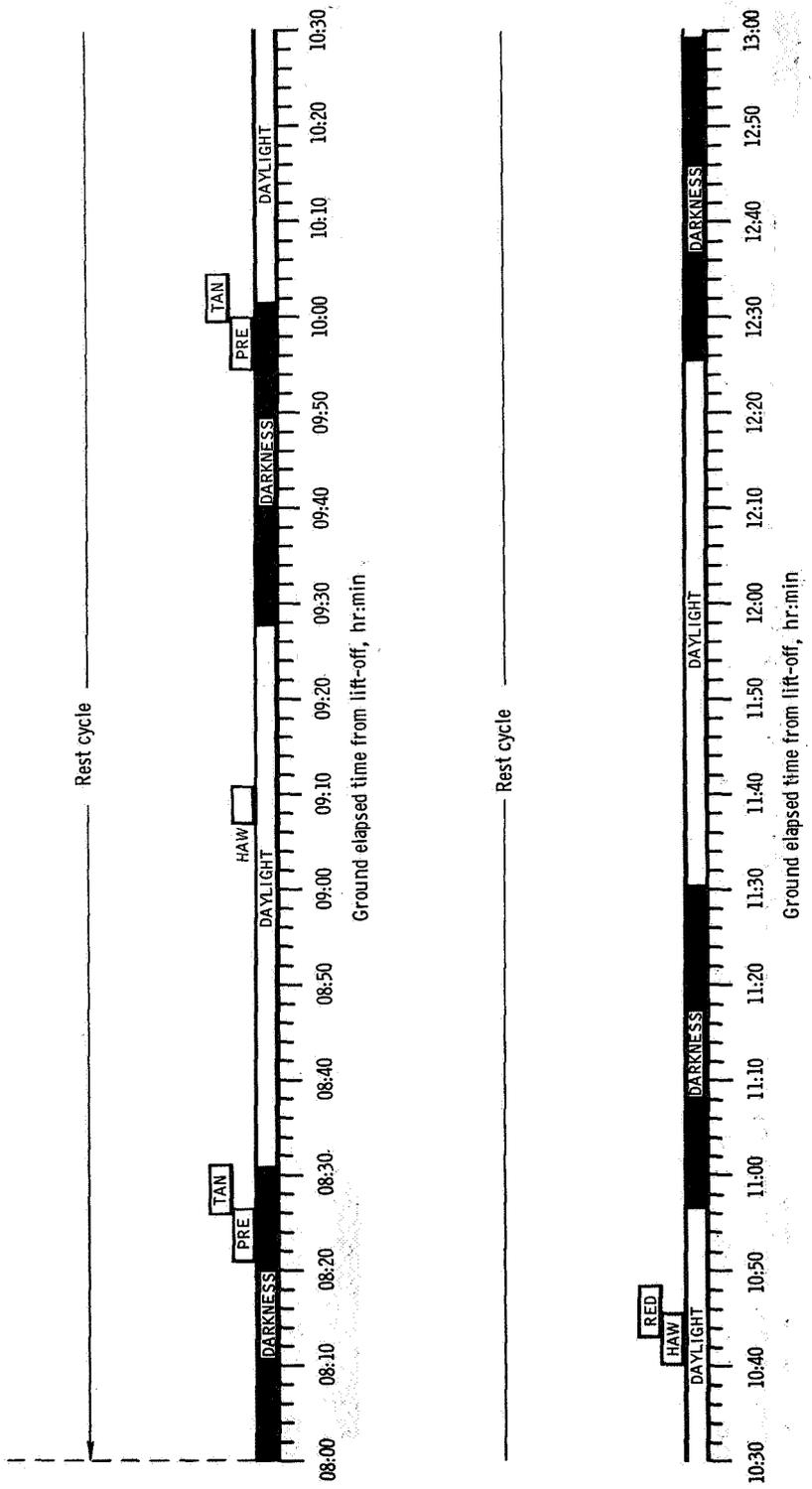
(b) Conditions at reentry (400 000 ft)

Earth-fixed position	
Coast-time, sec	918
Longitude, deg W	89.70
Geodetic latitude, deg N	33.36
Inertial velocity vector	
Velocity, fps	25 798.1
Flight-path angle, deg	-1.880
Azimuth angle, deg	86.76
Target latitude, deg N	30.62
Target longitude, deg W	58.98



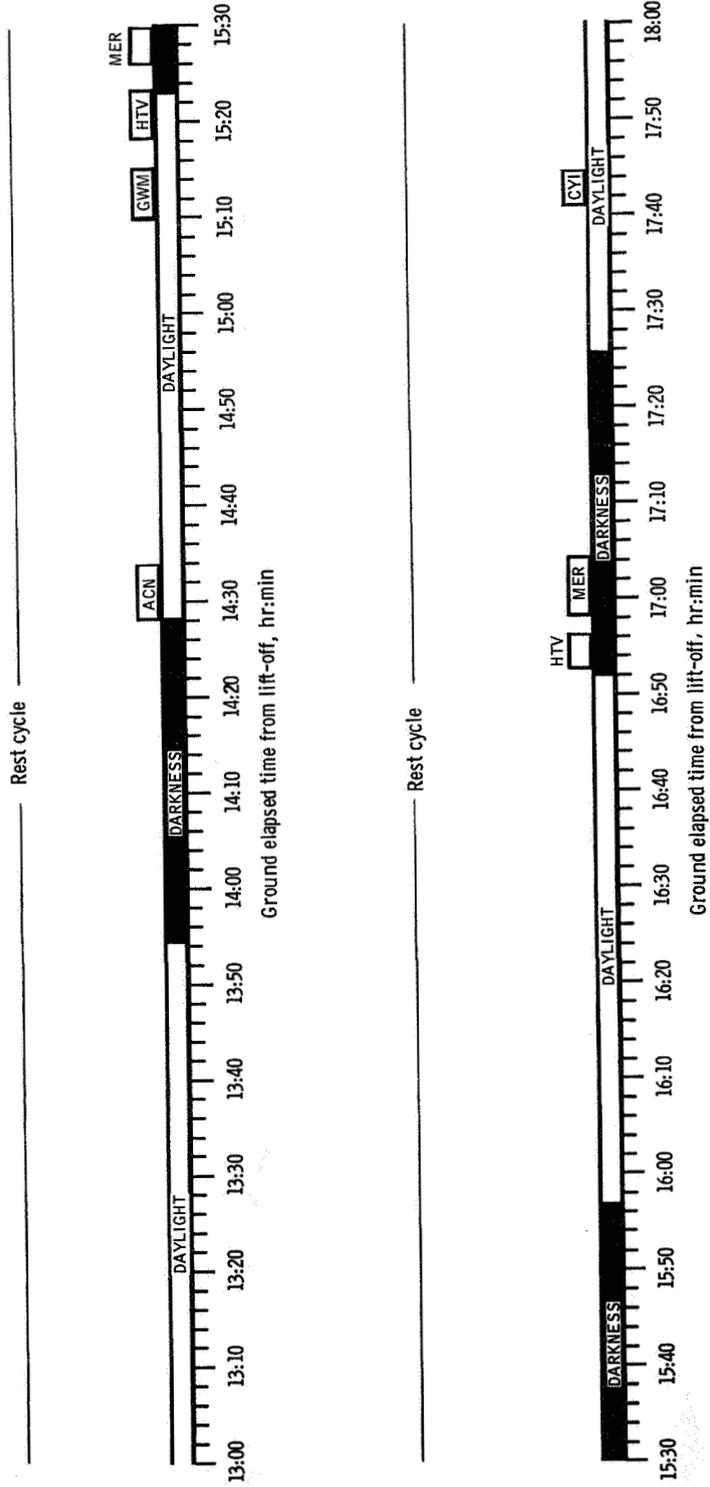
(a) 3 hours to 8 hours.

Figure 1. - Mission D tracking, lighting, and mission events summary.



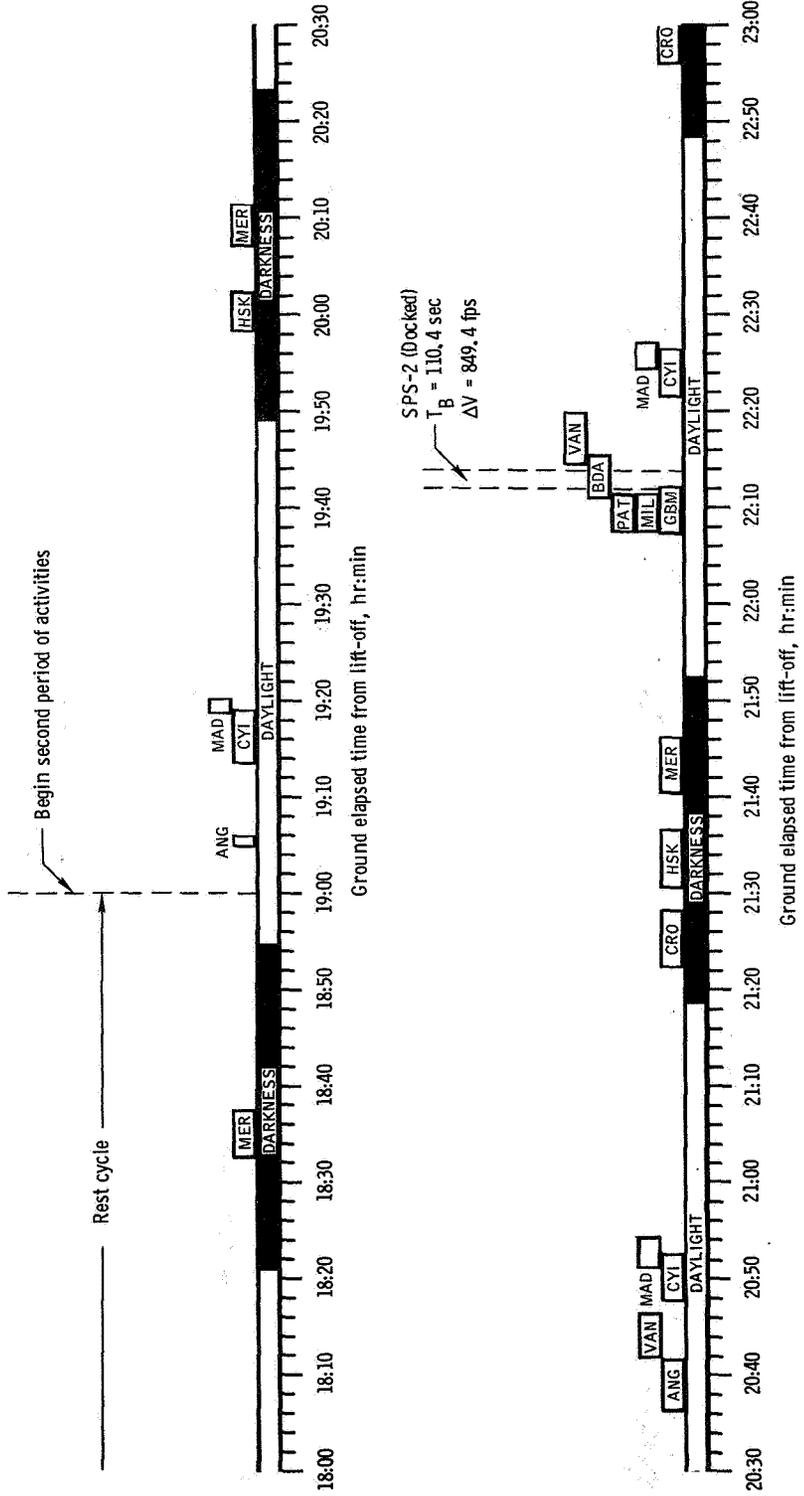
(b) 8 hours to 13 hours.

Figure 1. - Continued.



(c) 13 hours to 18 hours.

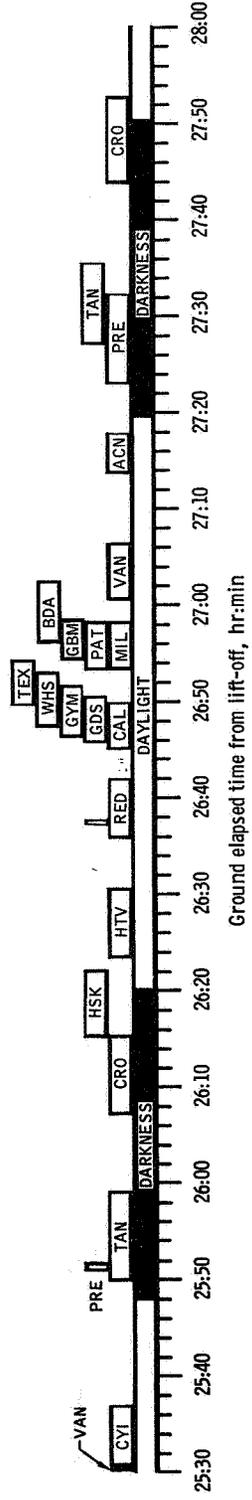
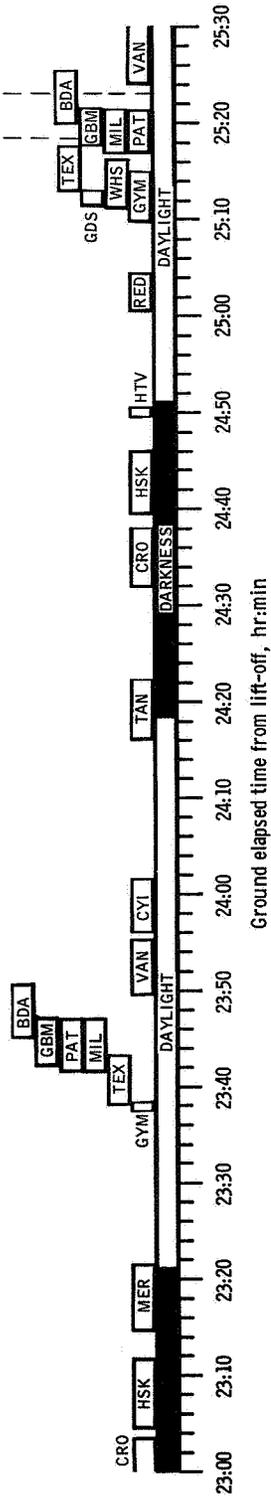
Figure 1. - Continued.



(d) 18 hours to 23 hours.

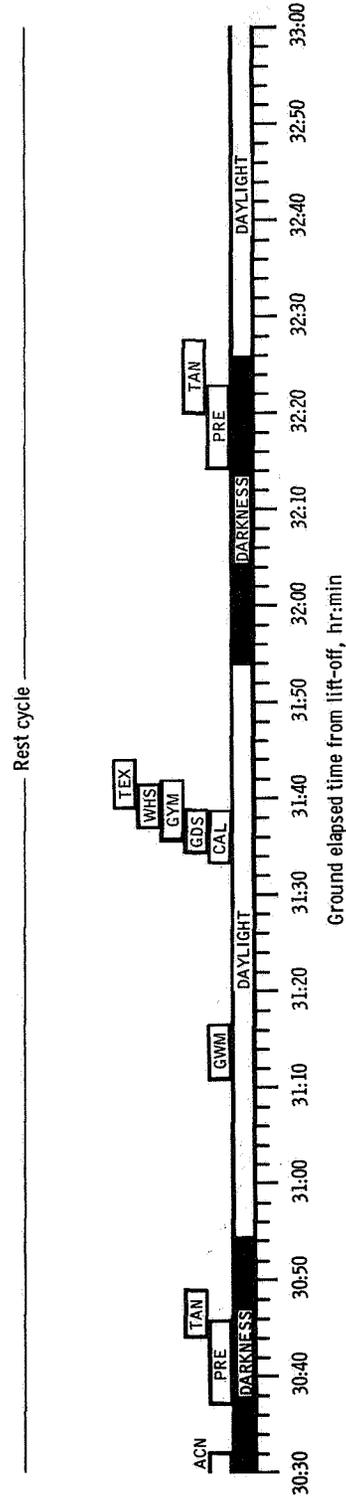
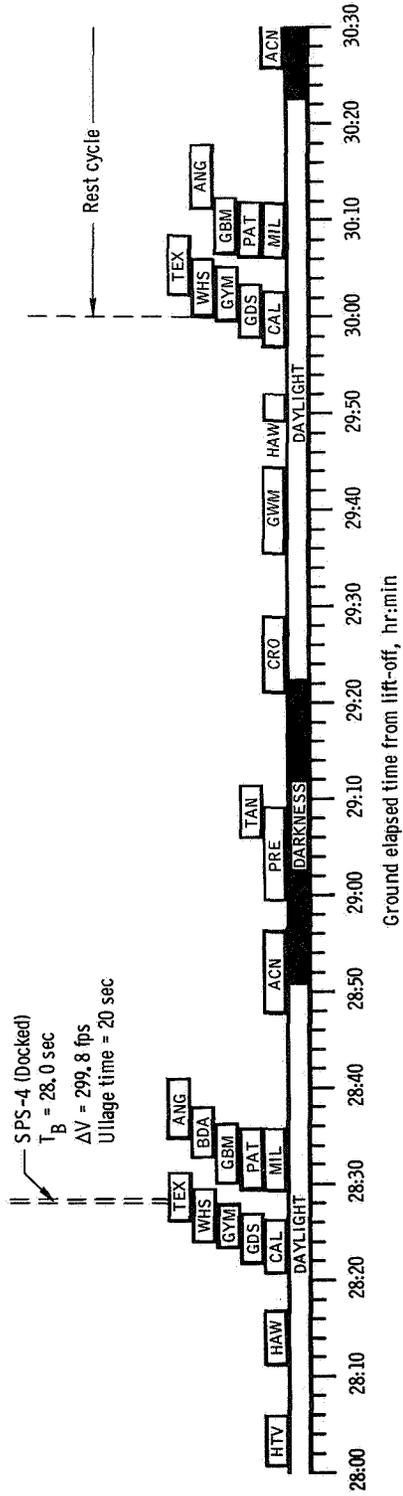
Figure 1. - Continued.

SPS-3 (Docked)
 $T_B = 277.6 \text{ sec}$
 $\Delta V = 2548, 1 \text{ fps}$



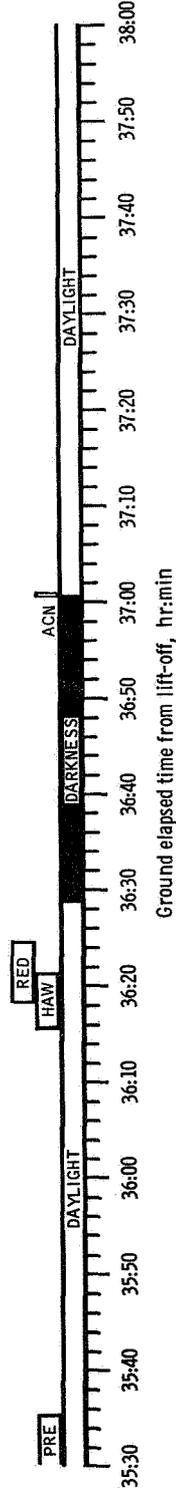
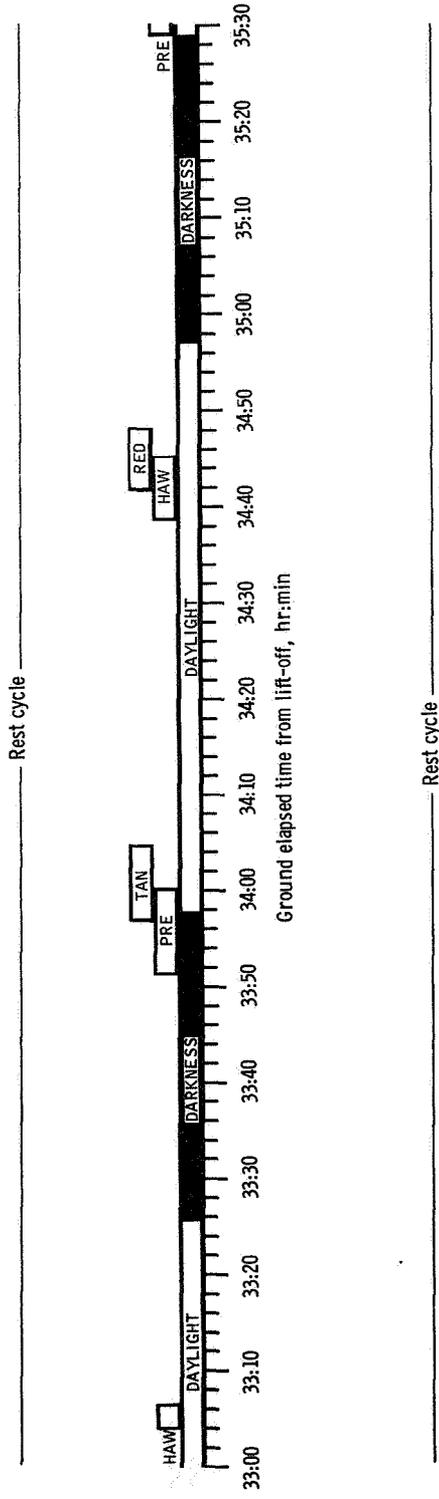
(e) 23 hours to 28 hours.

Figure 1. - Continued.



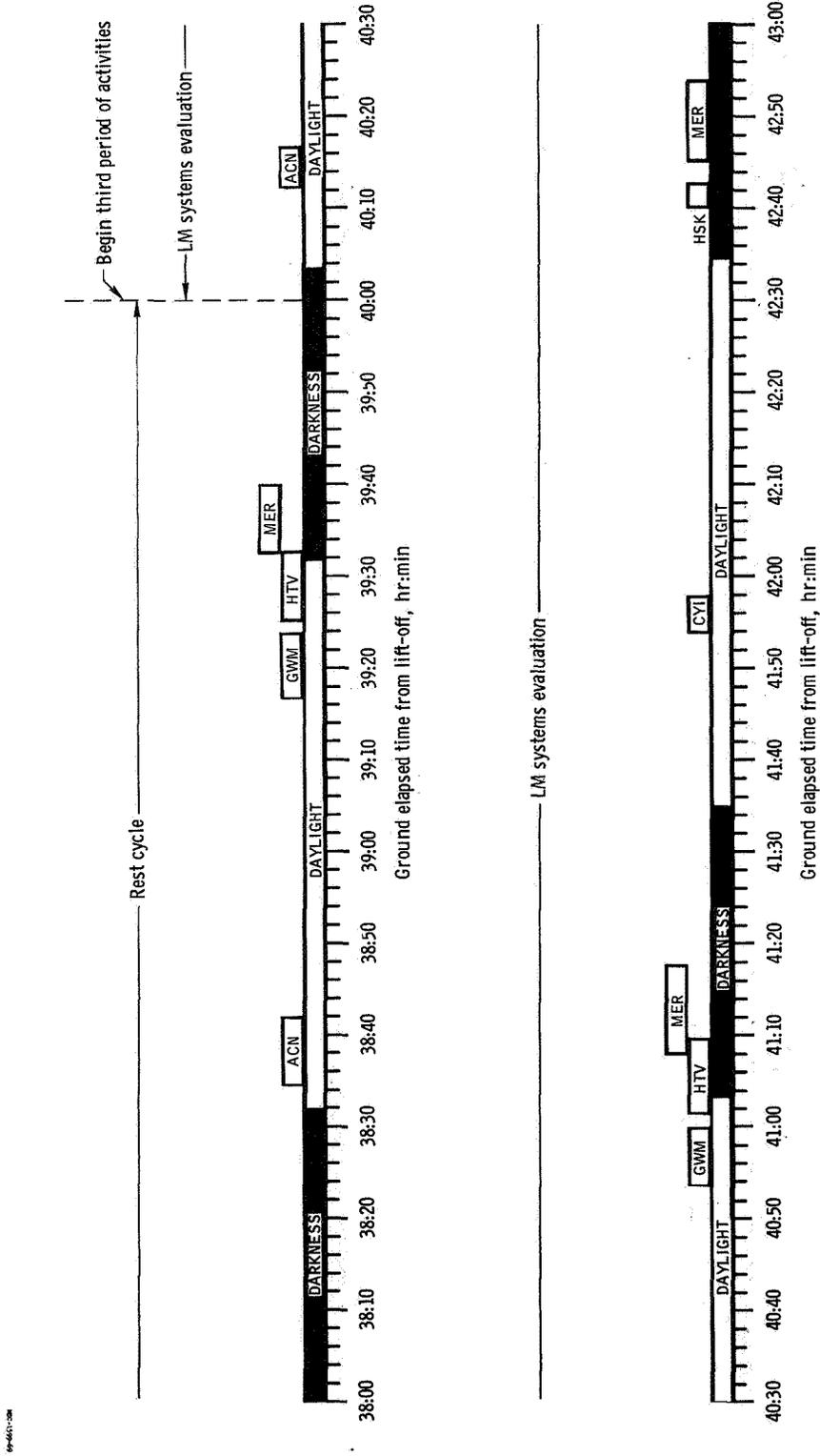
(f) 28 hours to 33 hours.

Figure 1. - Continued.



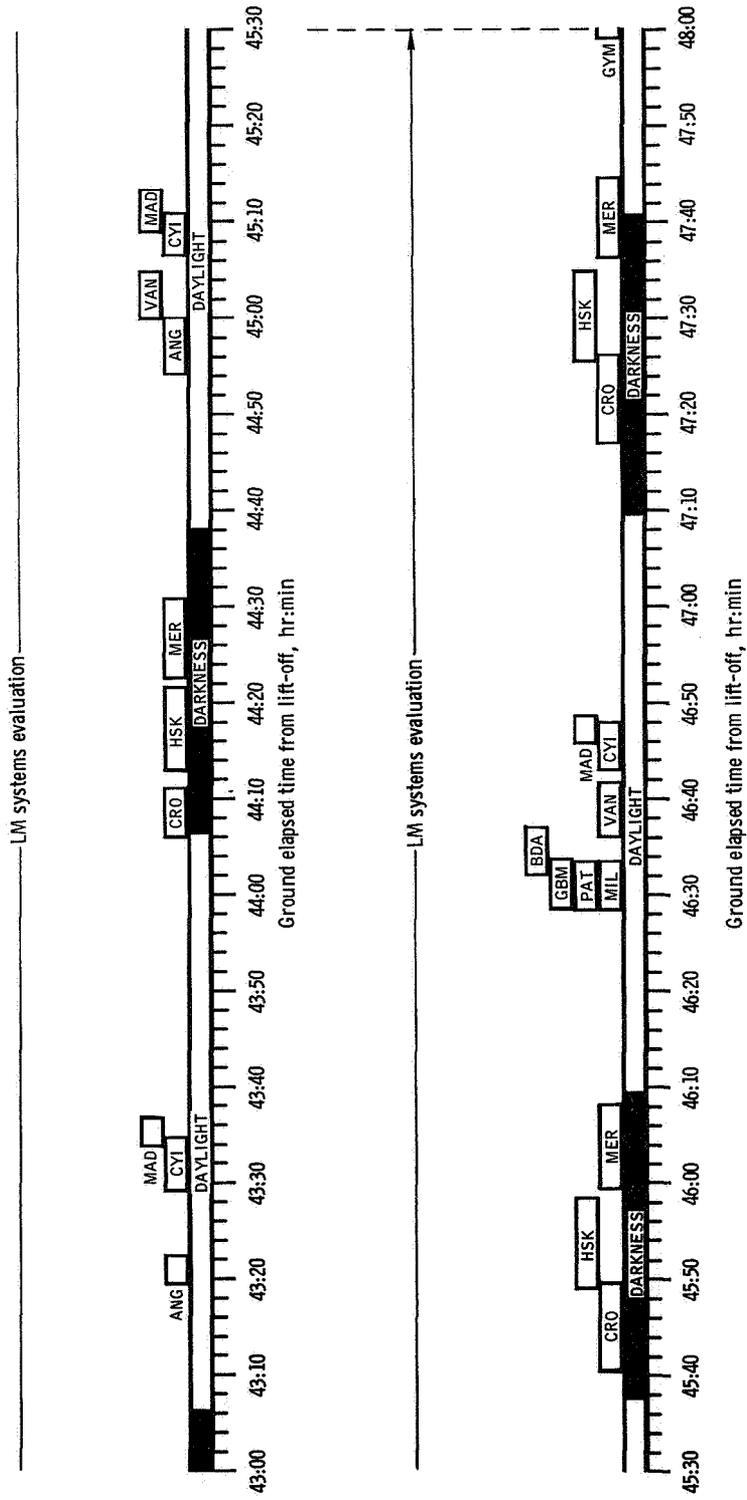
(g) 33 hours to 38 hours.

Figure 1. - Continued.



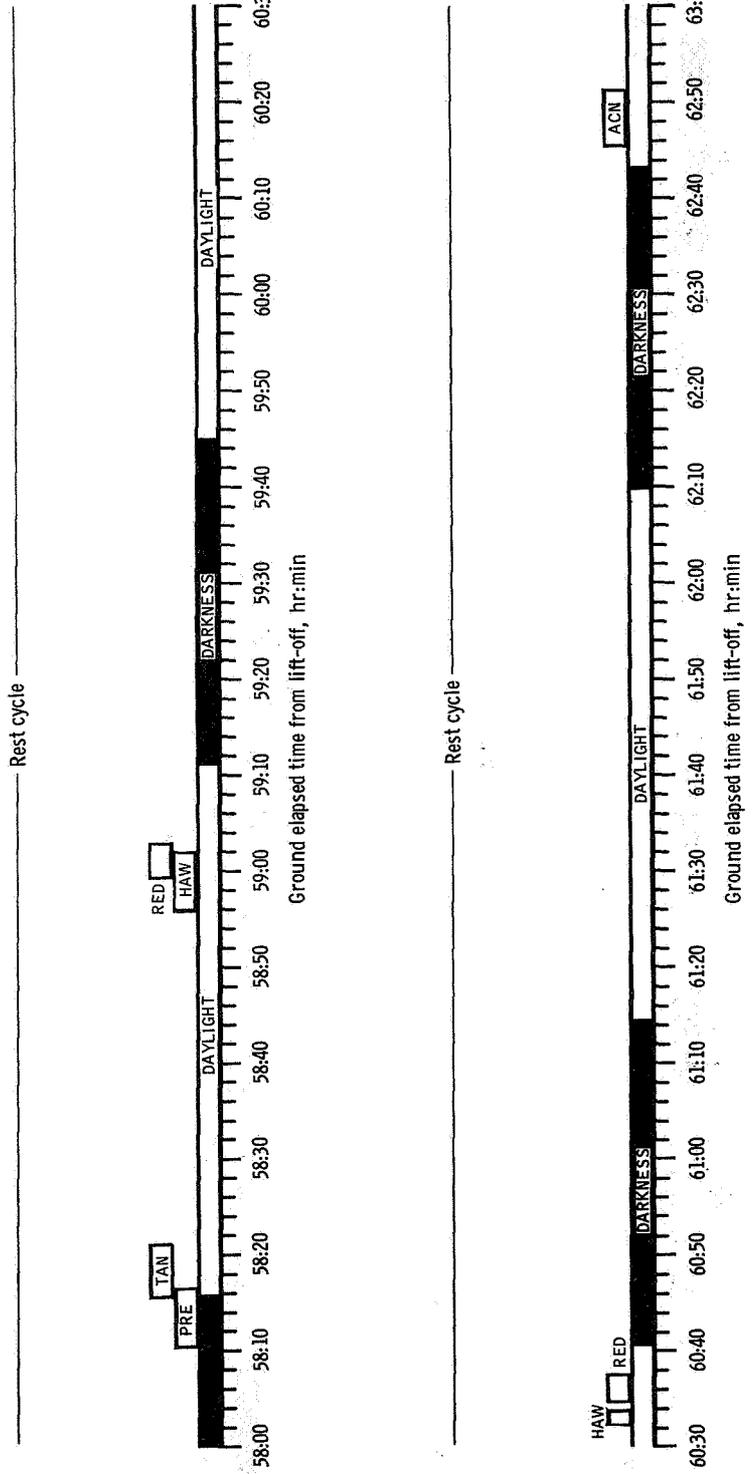
(h) 38 hours to 43 hours.

Figure 1. - Continued.



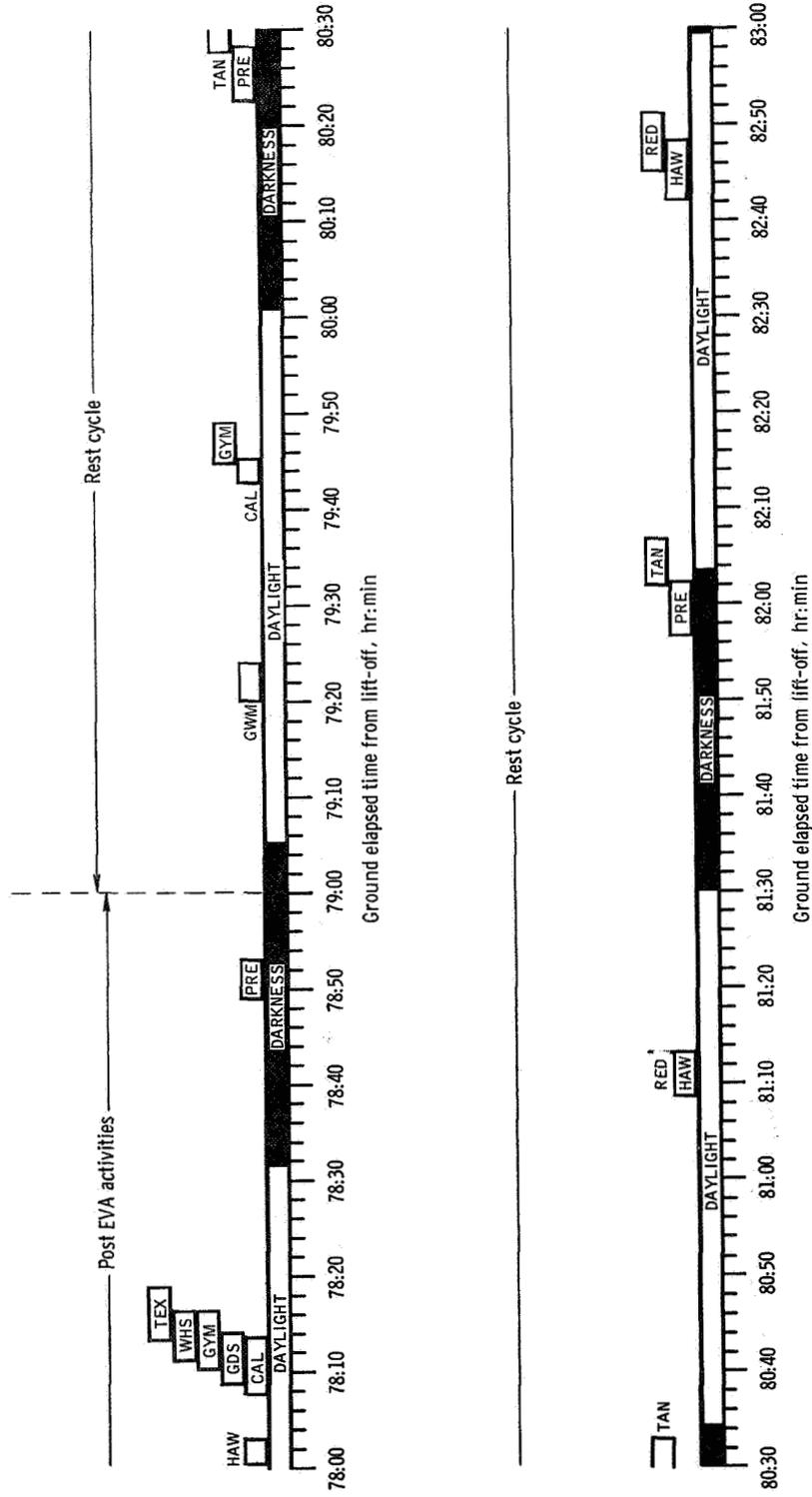
(i) 43 hours to 48 hours.

Figure 1. - Continued.



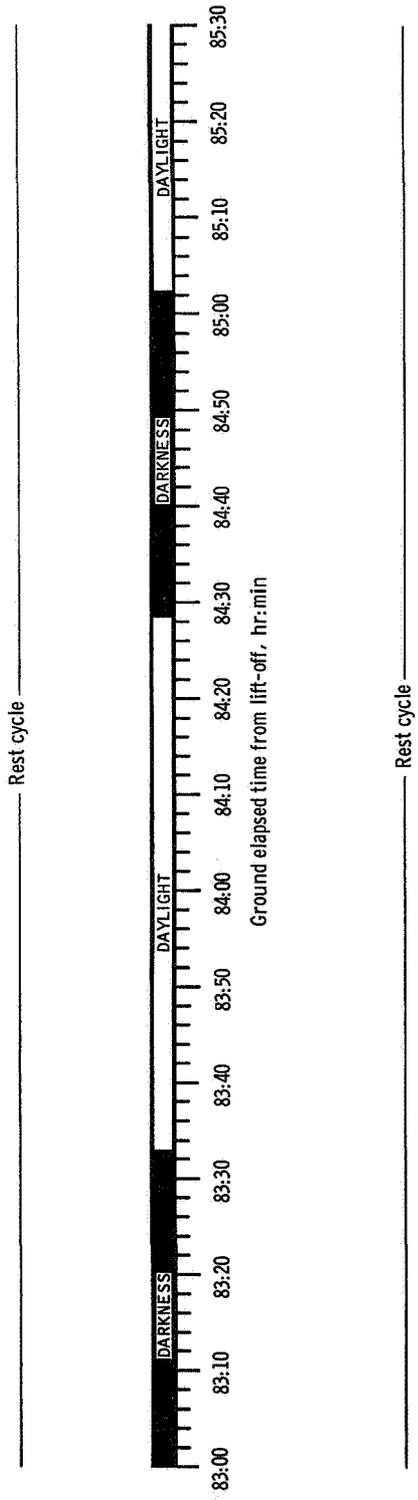
(1) 58 hours to 63 hours.

Figure 1. - Continued.

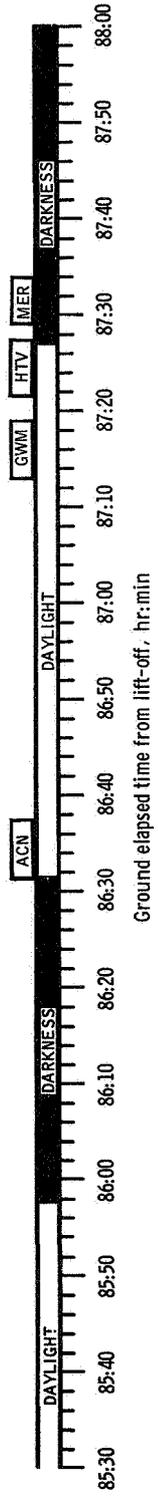


(p) 78 hours to 83 hours.

Figure 1. - Continued.

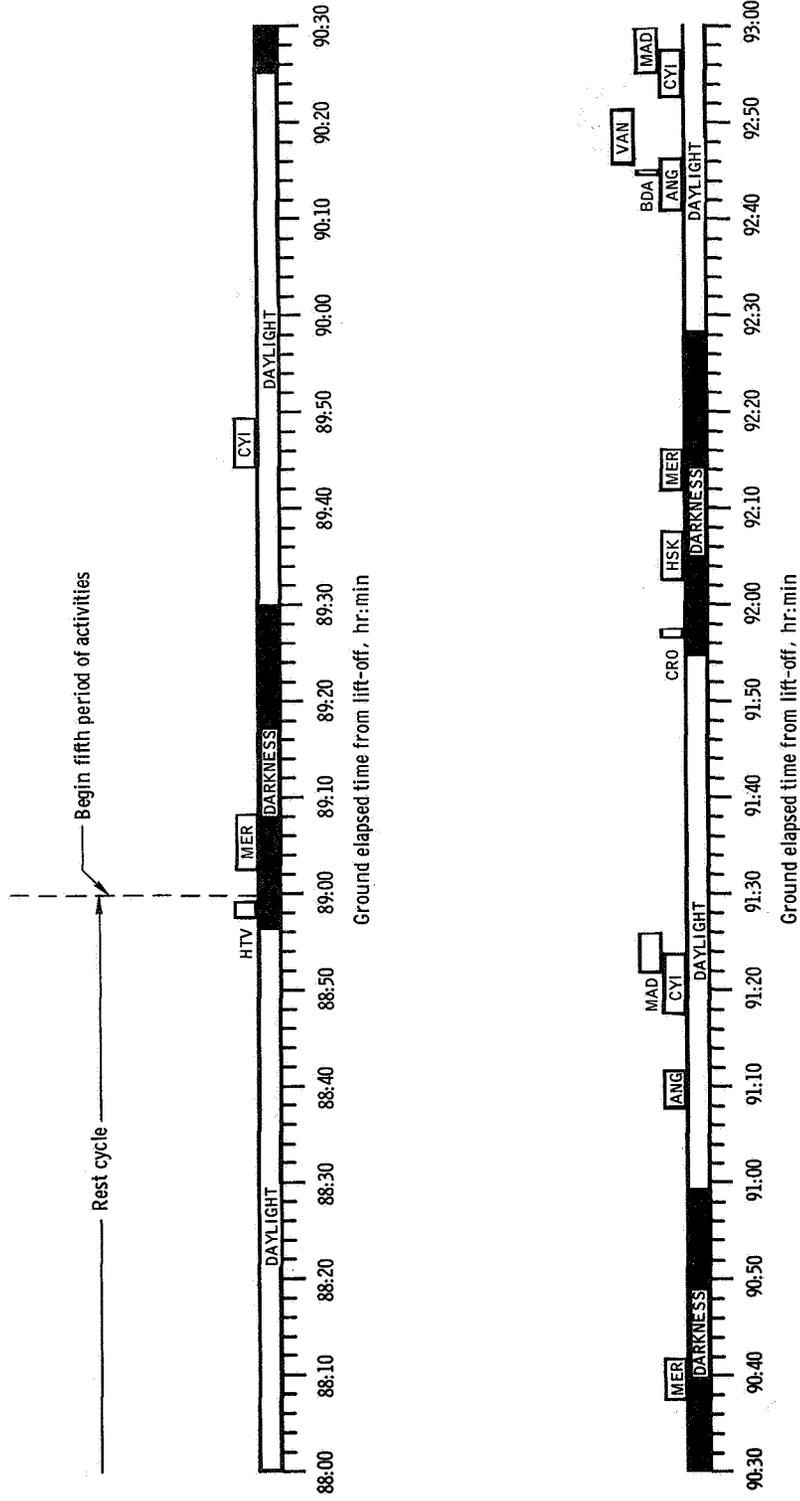


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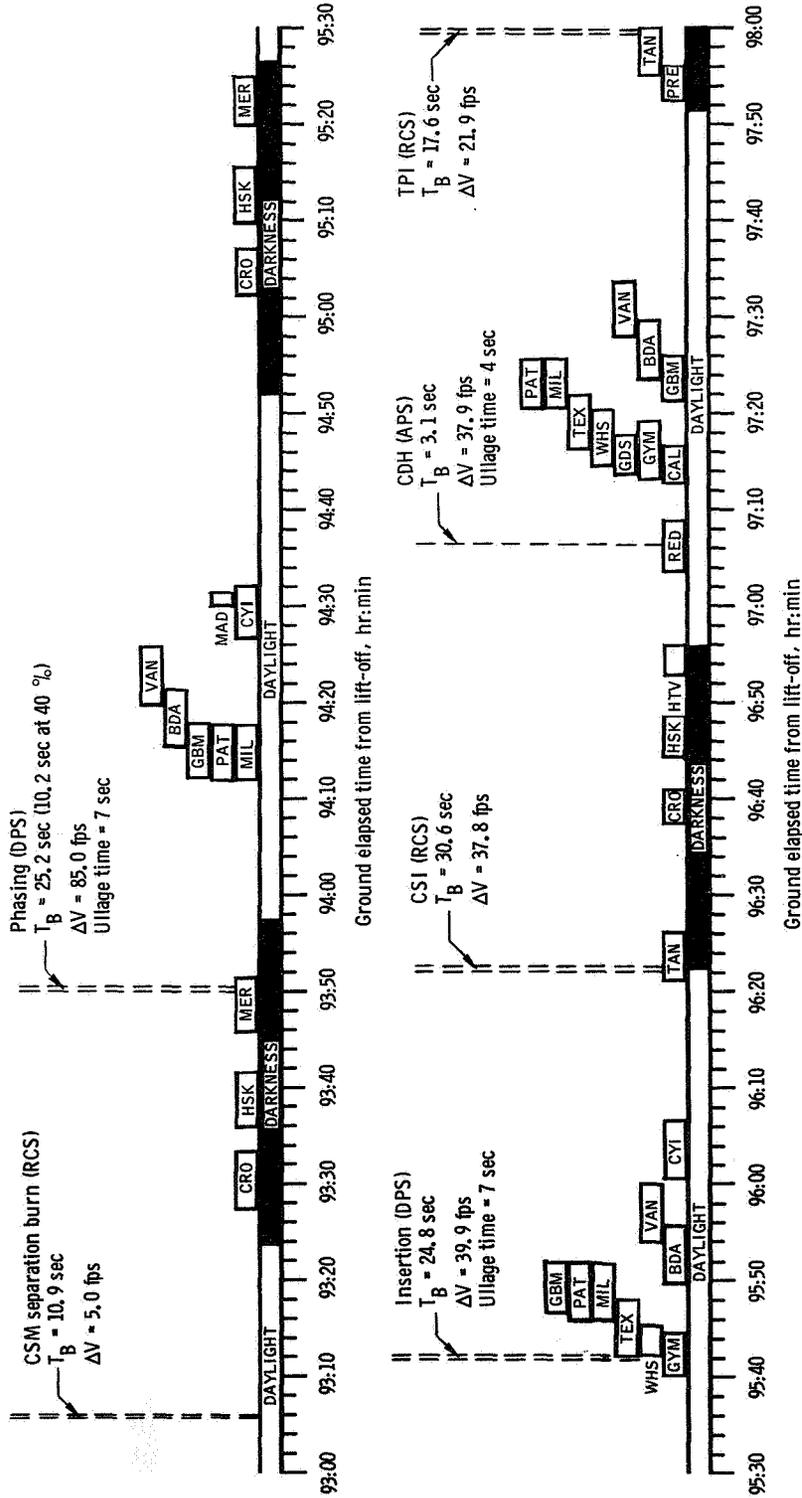
(q) 83 hours to 88 hours.

Figure 1. - Continued.



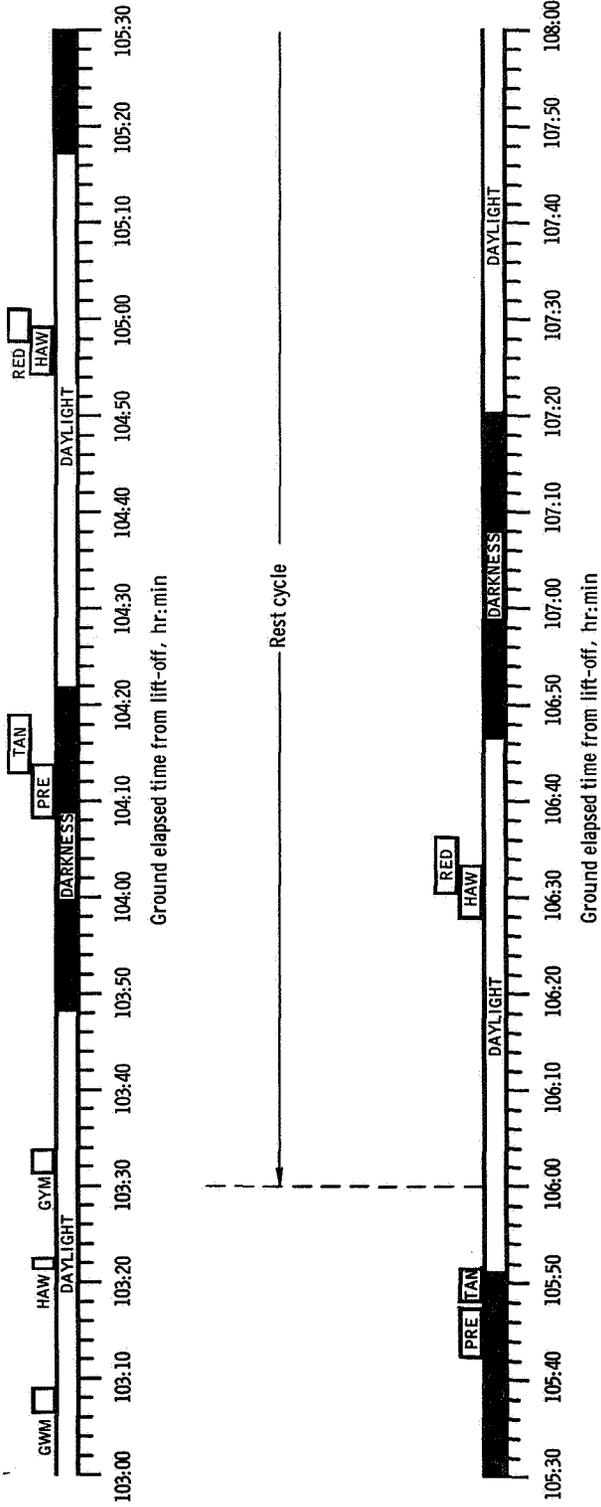
(r) 88 hours to 93 hours.

Figure 1. - Continued.



(s) 93 hours to 98 hours.

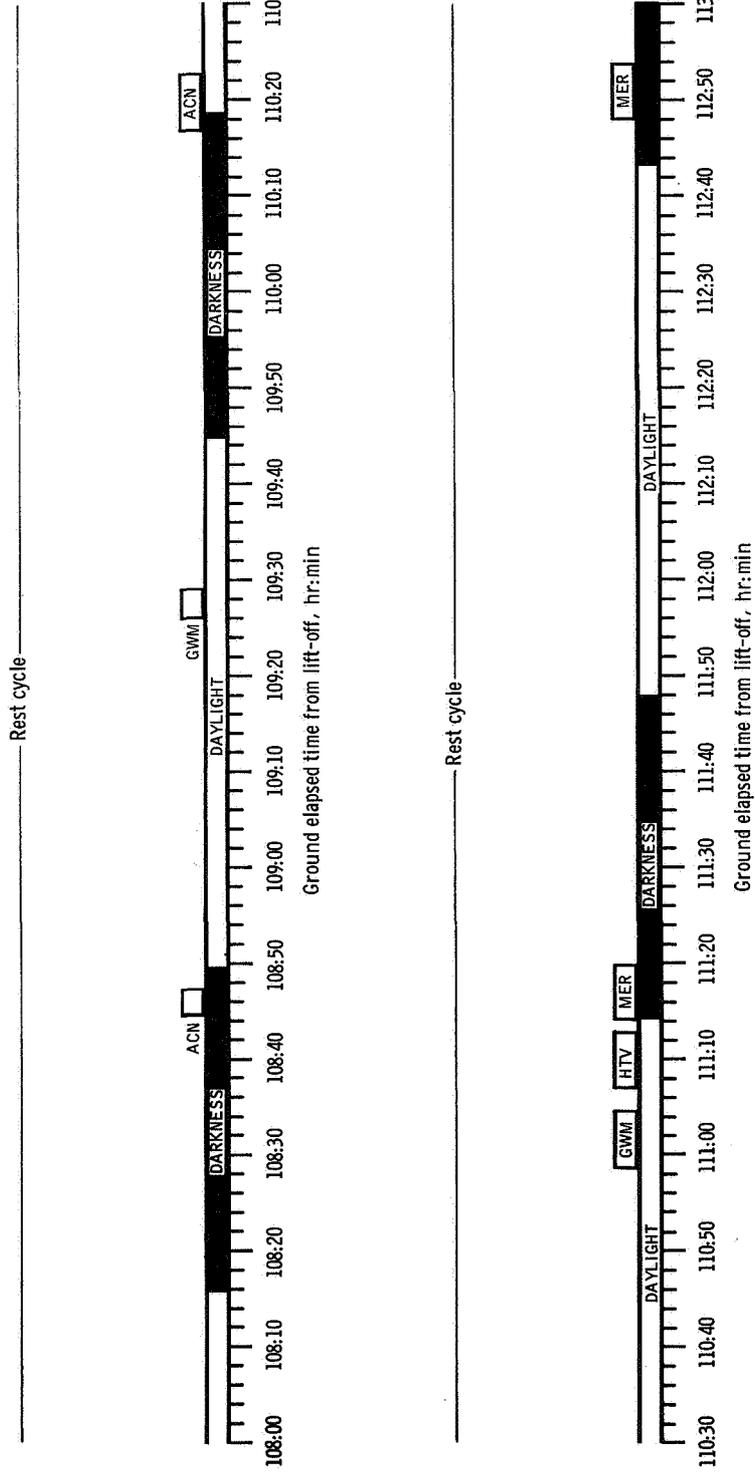
Figure 1.- Continued.



(u) 103 hours to 108 hours.

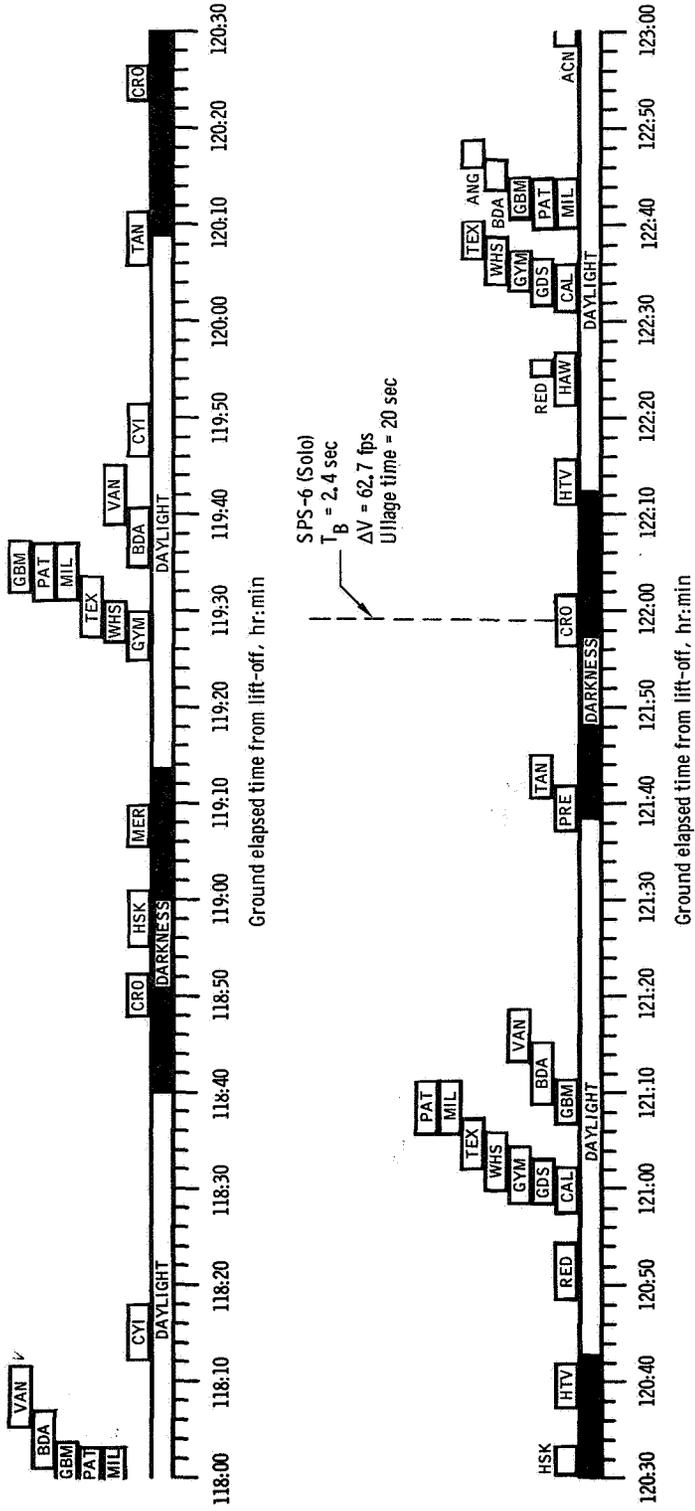
Figure 1. - Continued.

CP-6651-20M



(v) 108 hours to 113 hours.

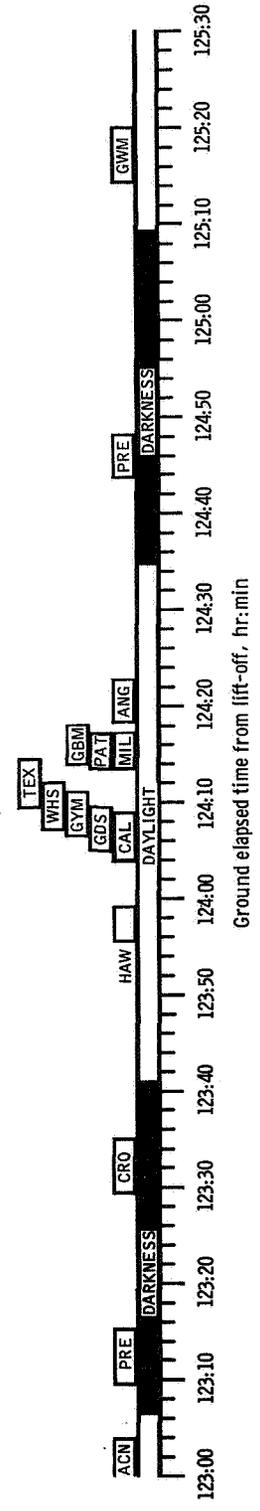
Figure 1. - Continued.



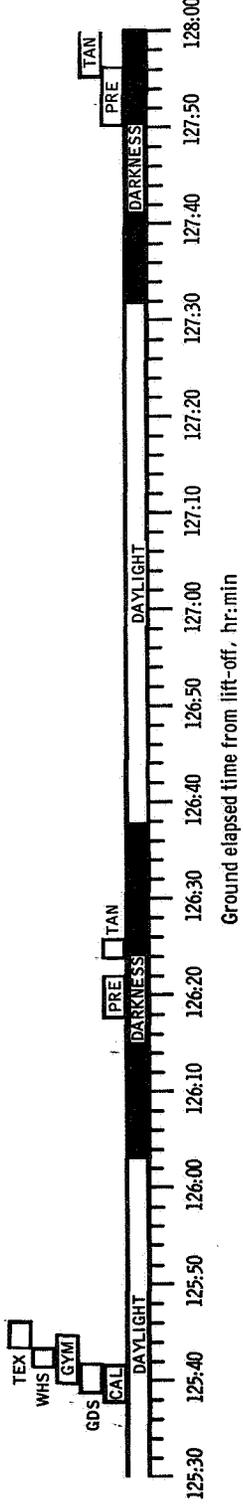
(x) 118 hours to 123 hours.

Figure 1. - Continued.

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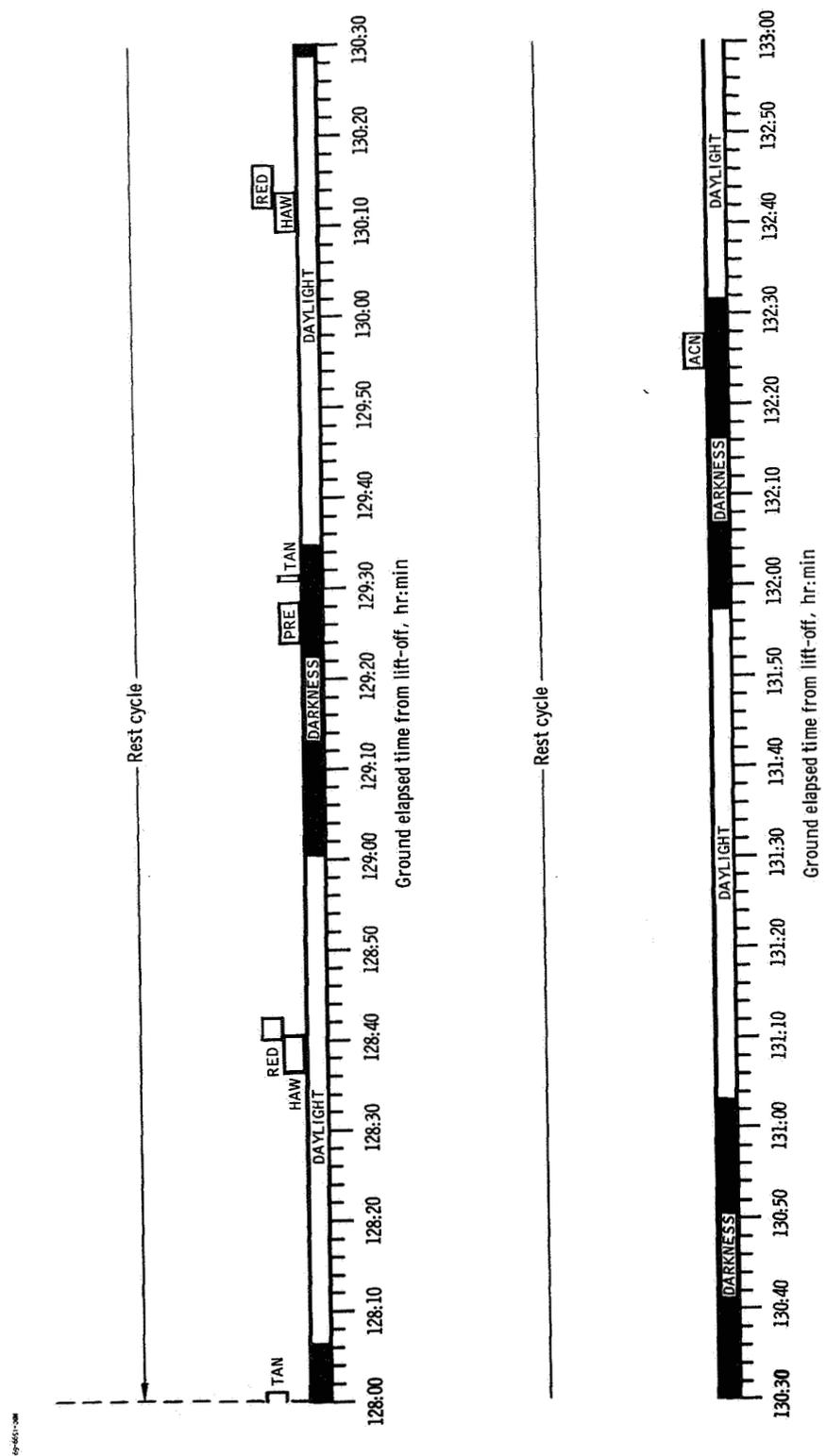
Ground elapsed time from lift-off, hr:min



Ground elapsed time from lift-off, hr:min

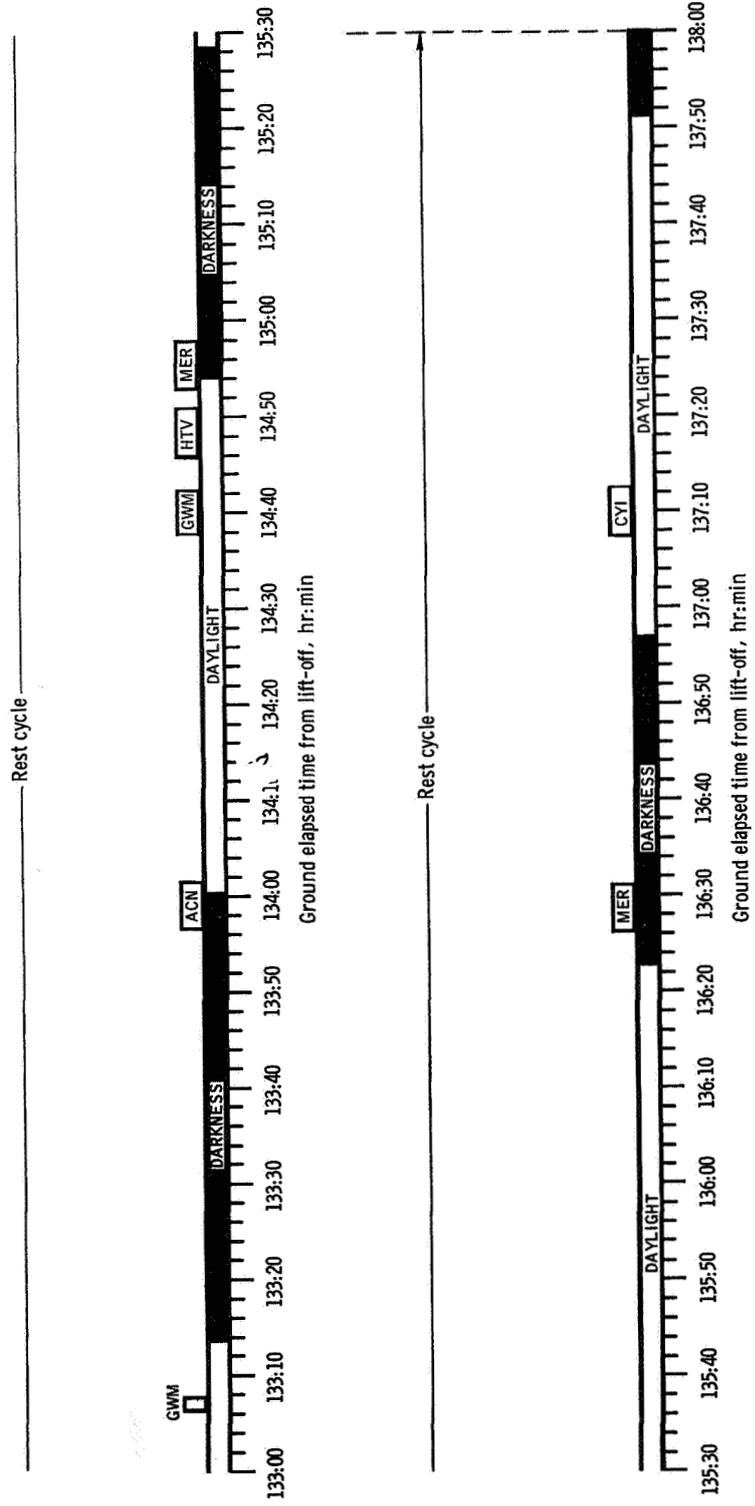
(y) 123 hours to 128 hours.

Figure 1. - Continued.



(z) 128 hours to 133 hours.

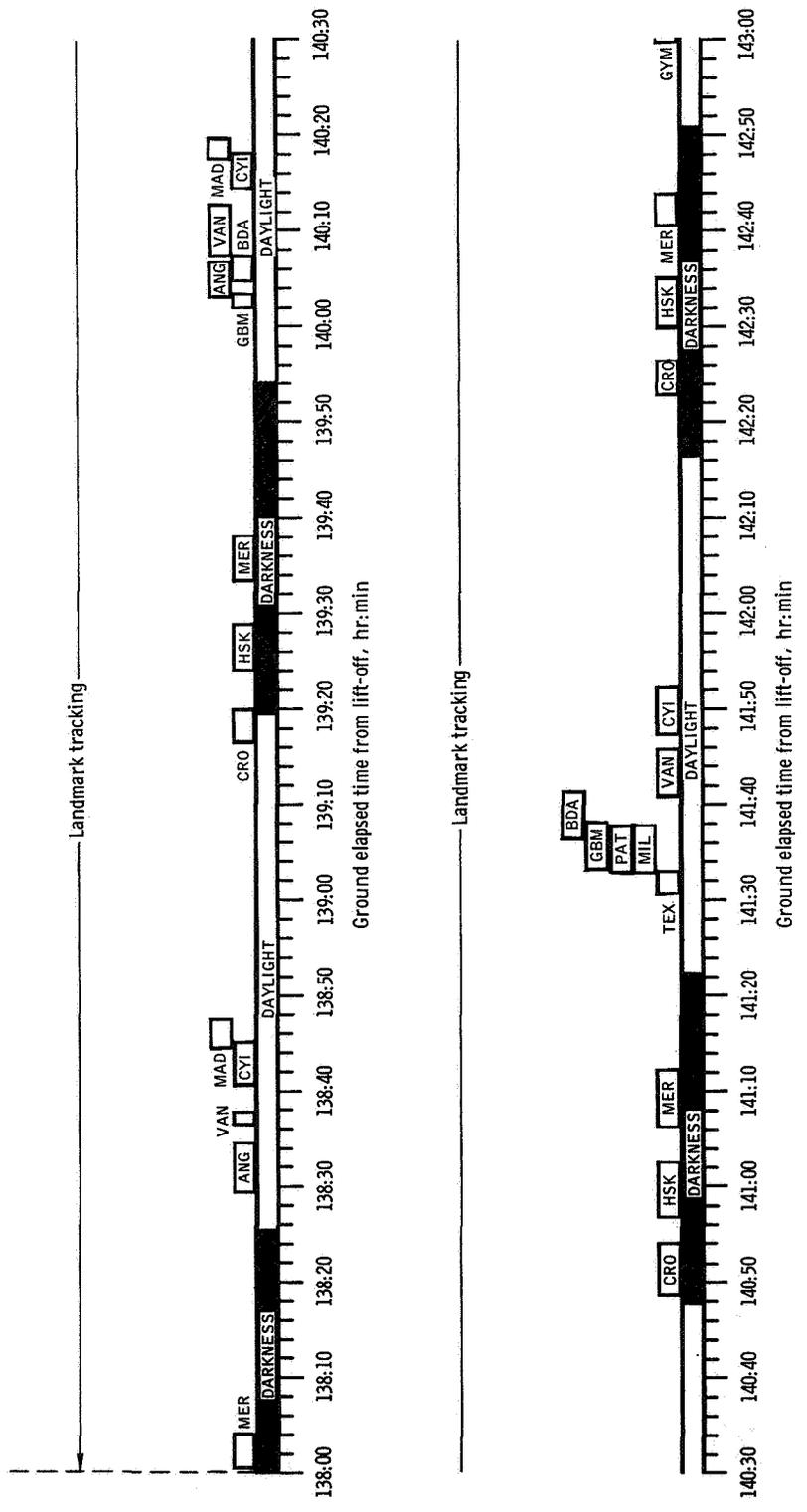
Figure 1. - Continued.



(aa) 133 hours to 138 hours.

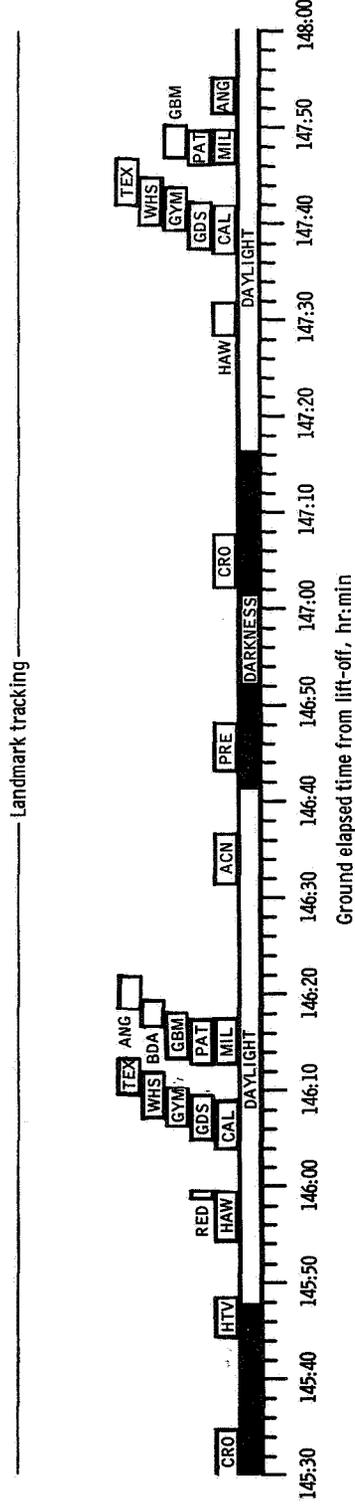
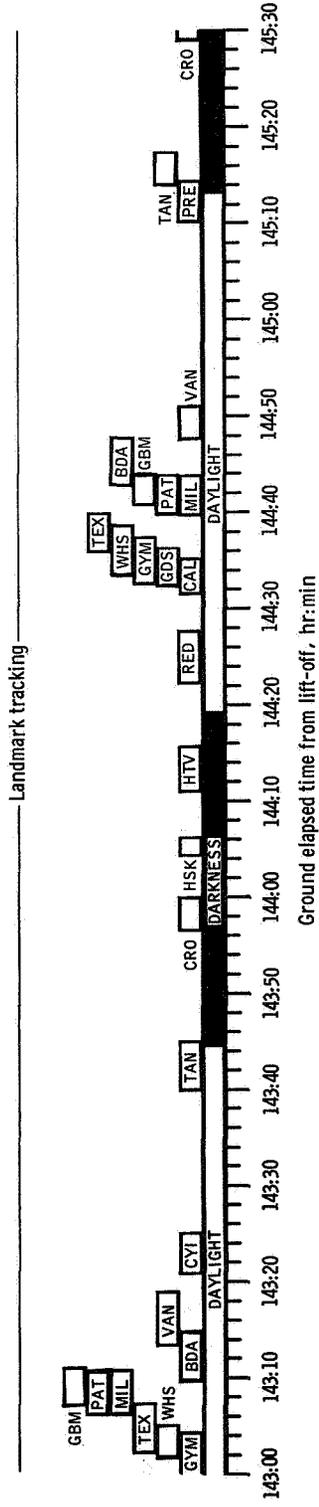
Figure 1. - Continued.

09-6611-200



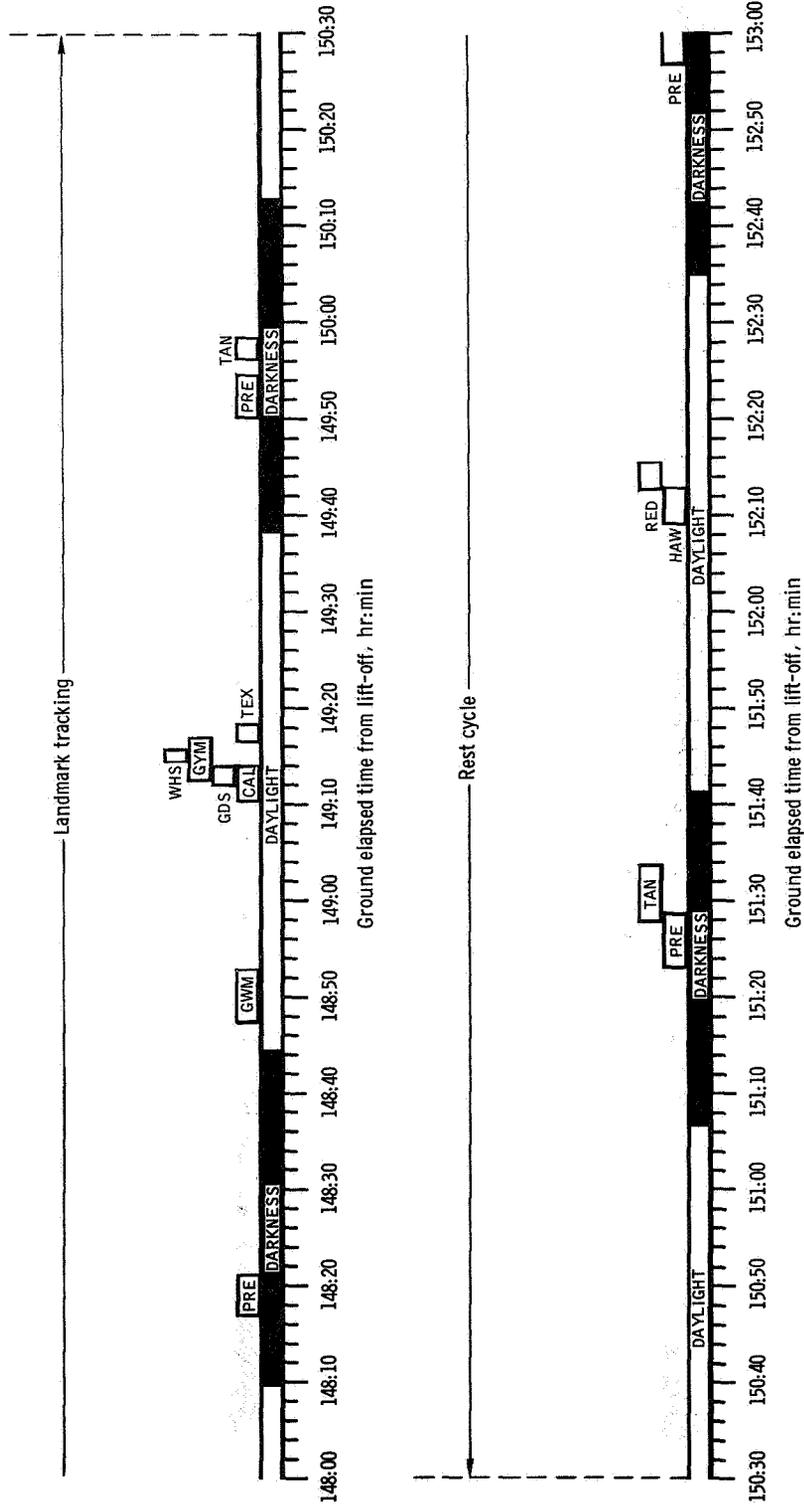
(bb) 138 hours to 143 hours.

Figure 1. - Continued.



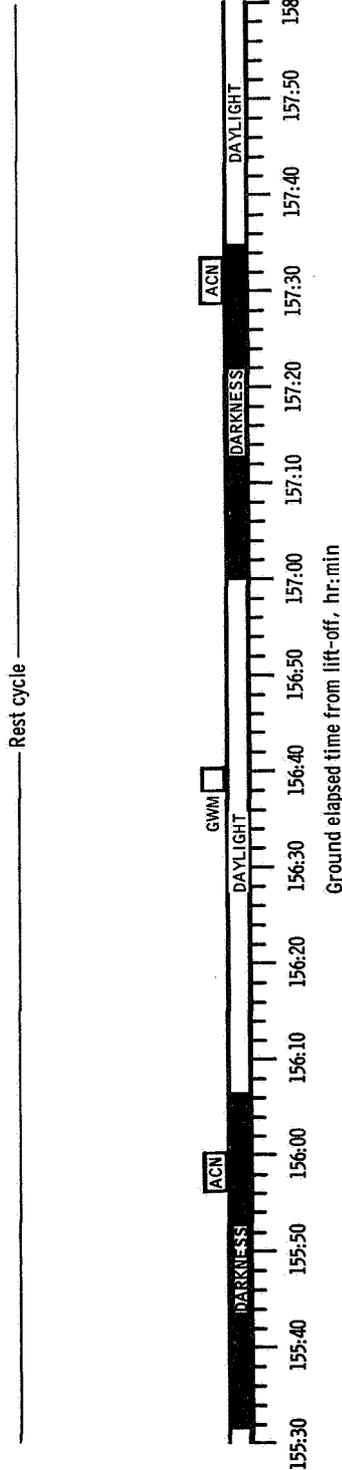
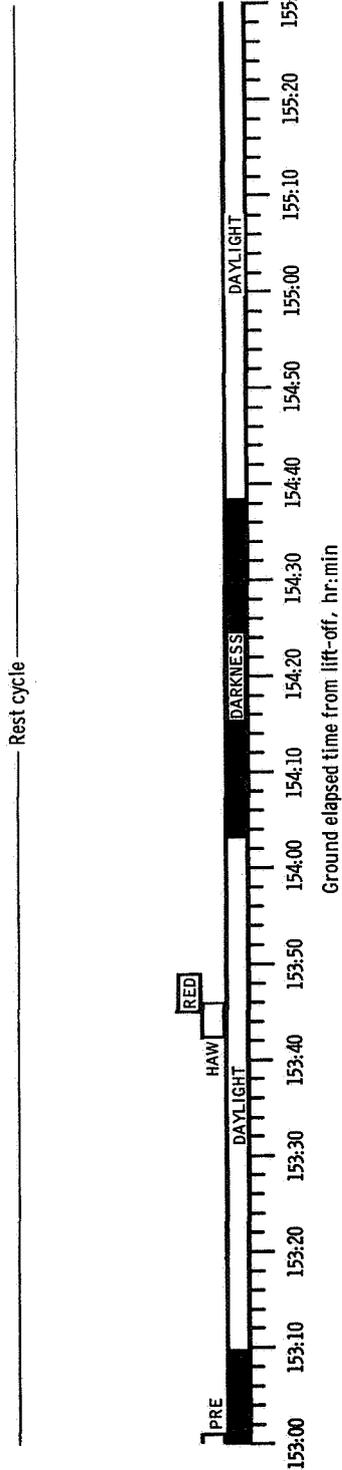
(cc) 143 hours to 148 hours.

Figure 1. - Continued.



(dd) 148 hours to 153 hours.

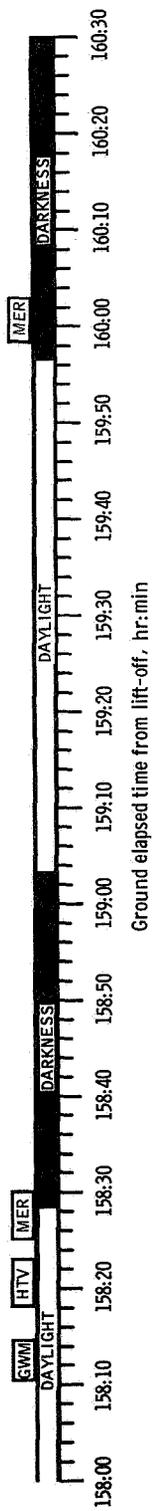
Figure 1. - Continued.



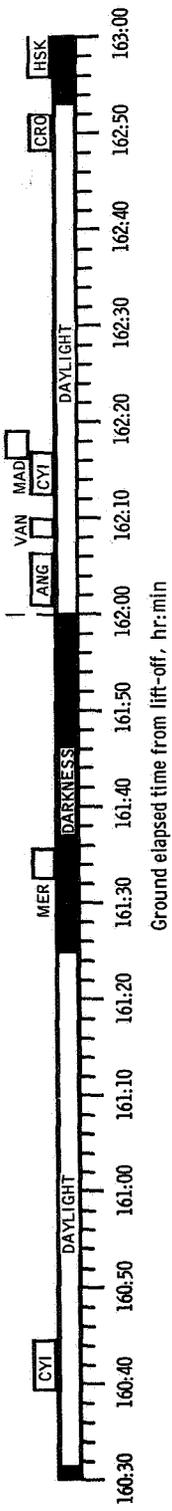
(ee) 153 hours to 158 hours.

Figure 1. - Continued.

Rest cycle

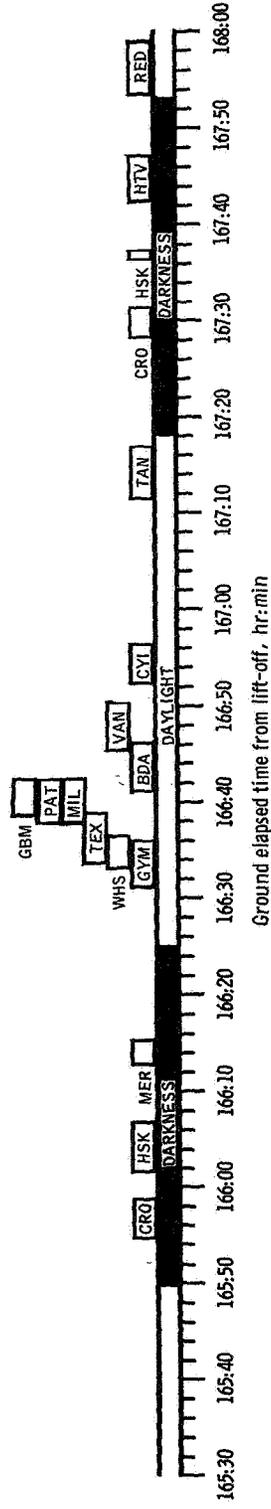
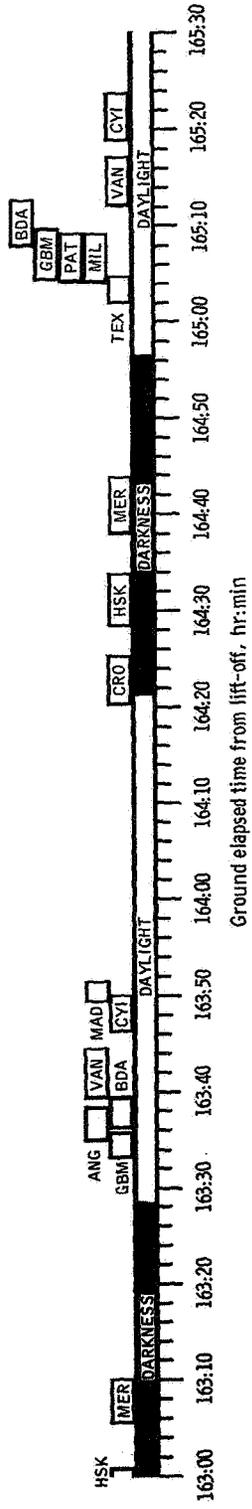


Rest cycle



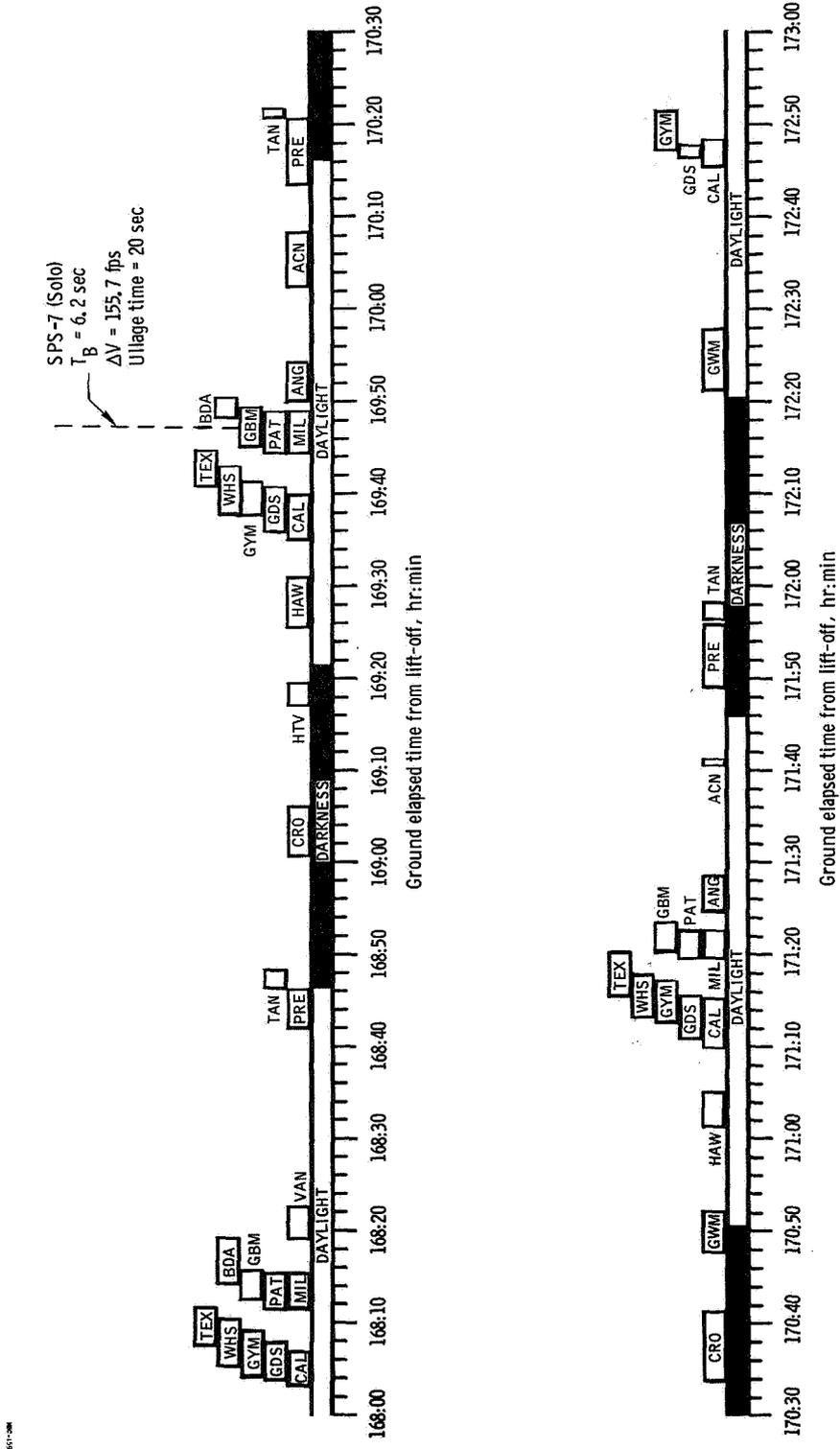
(ff) 158 hours to 163 hours.

Figure 1. - Continued.



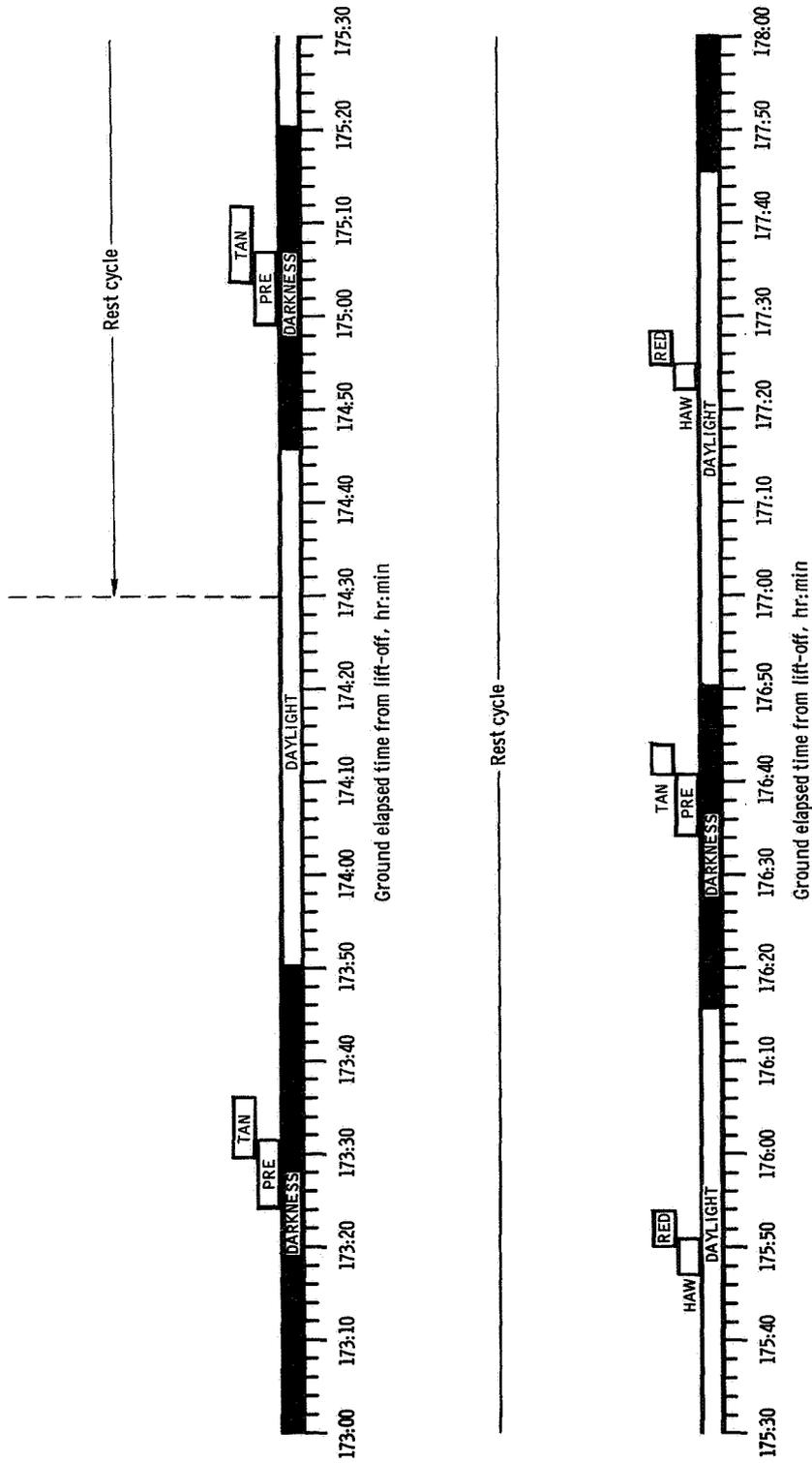
(gg) 163 hours to 168 hours.

Figure 1. - Continued.



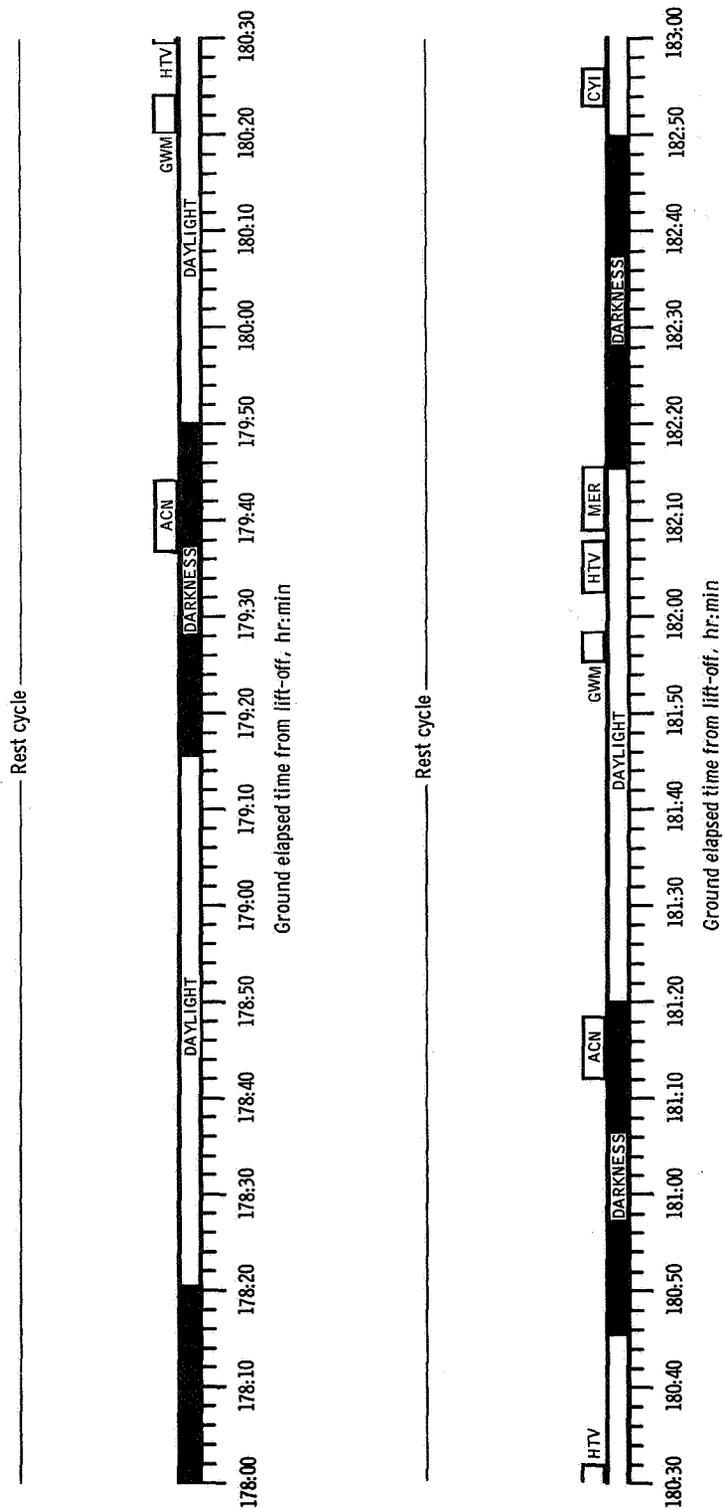
(hh) 168 hours to 173 hours.

Figure 1. - Continued.



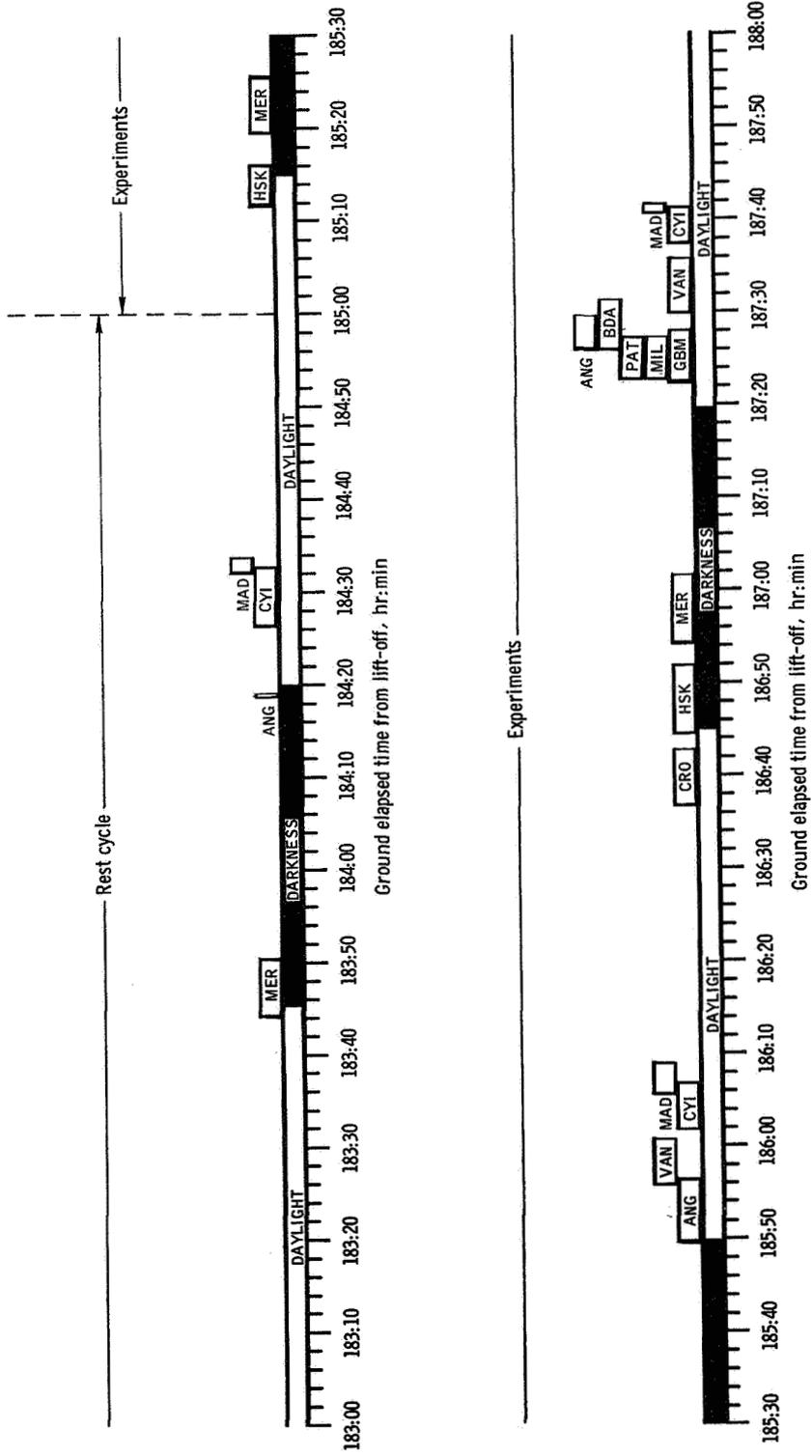
(ii) 173 hours to 178 hours.

Figure 1. - Continued.



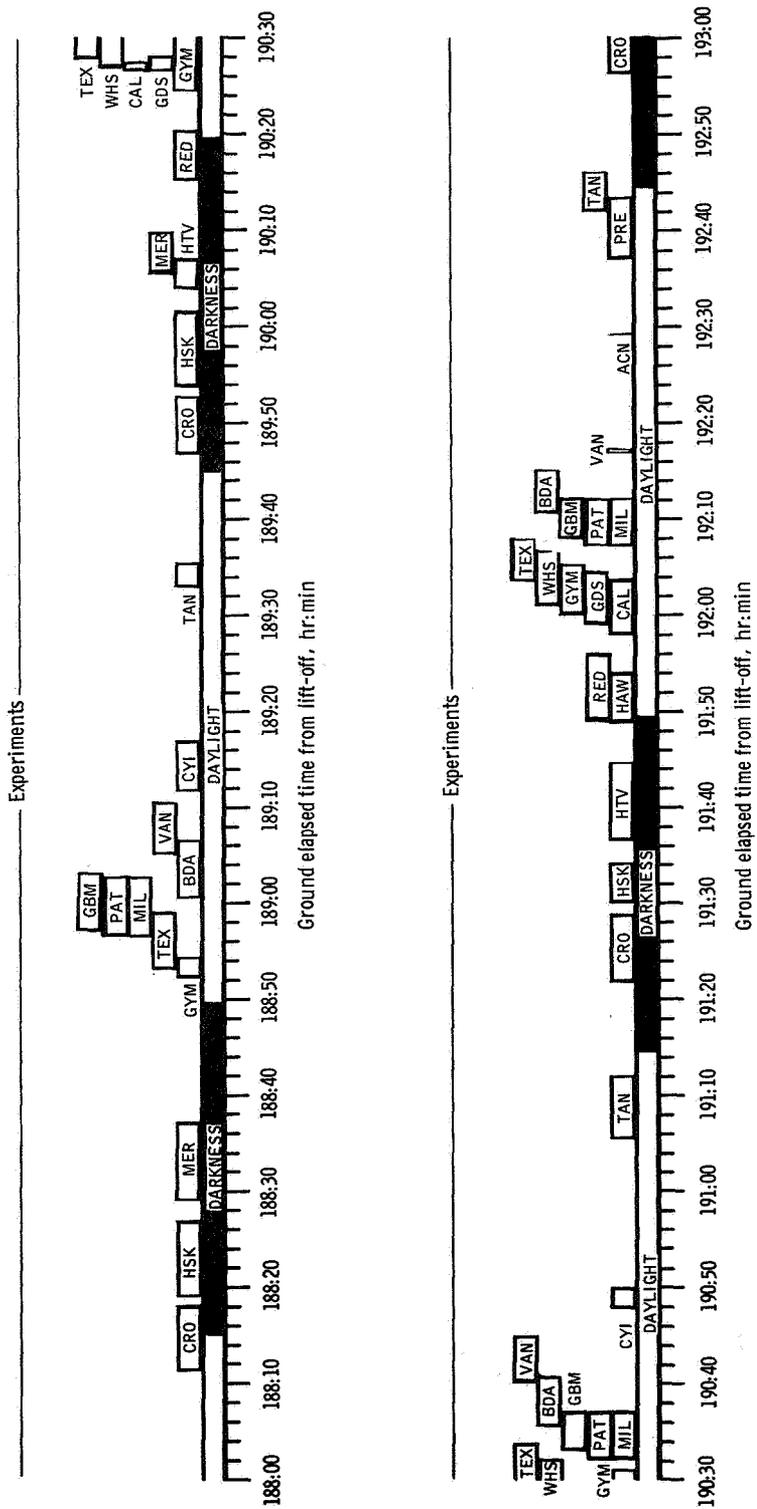
(j) 178 hours to 183 hours.

Figure 1. - Continued.



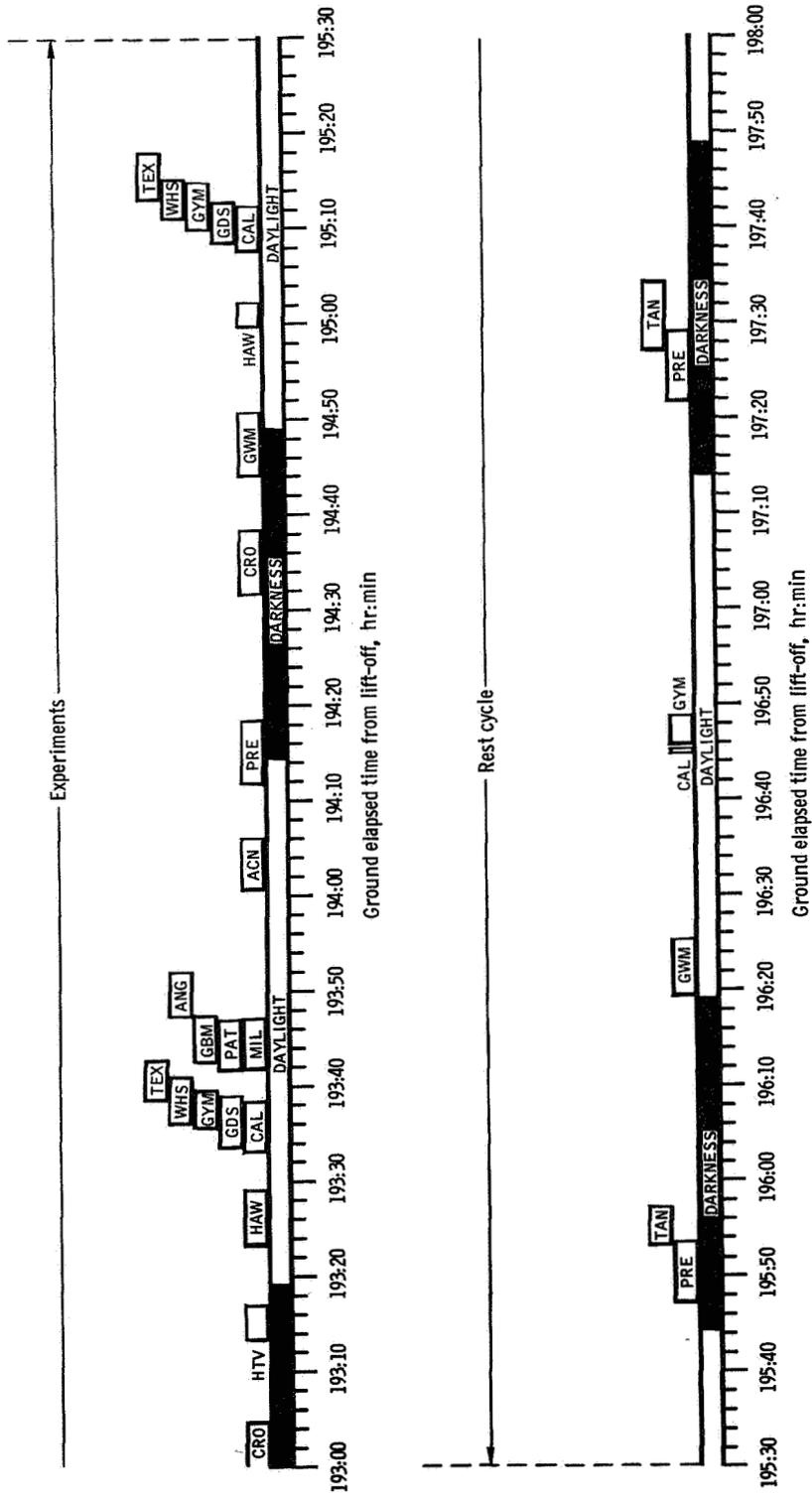
(kk) 183 hours to 188 hours.

Figure 1. - Continued.



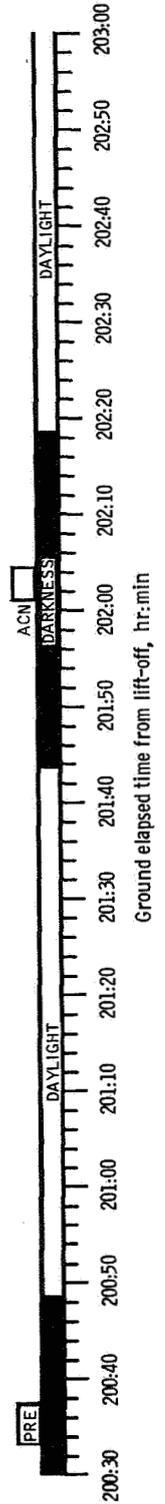
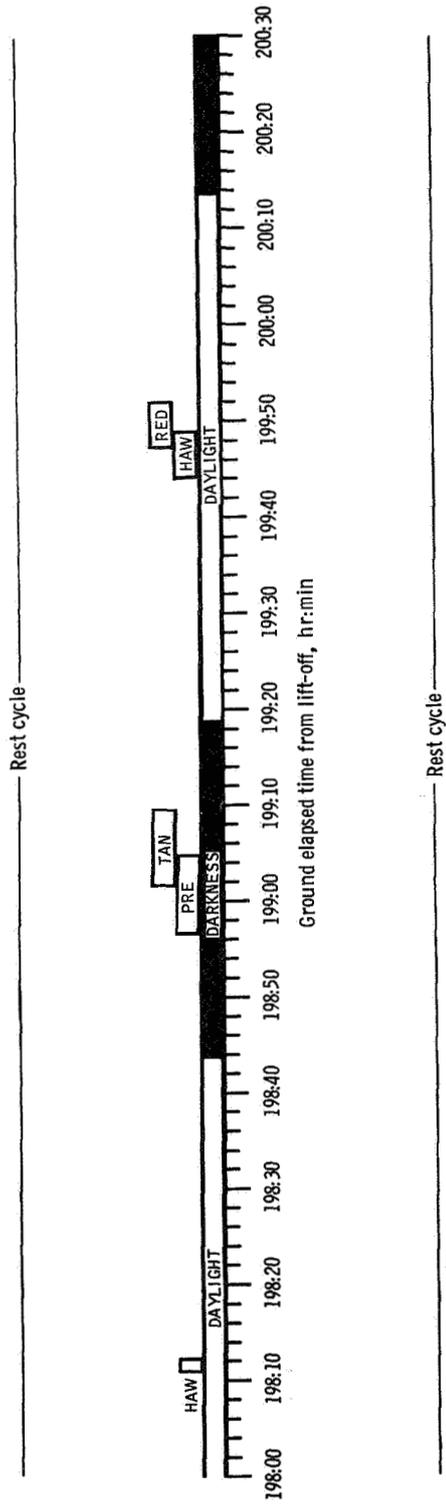
(II) 188 hours to 193 hours.

Figure 1. - Continued.



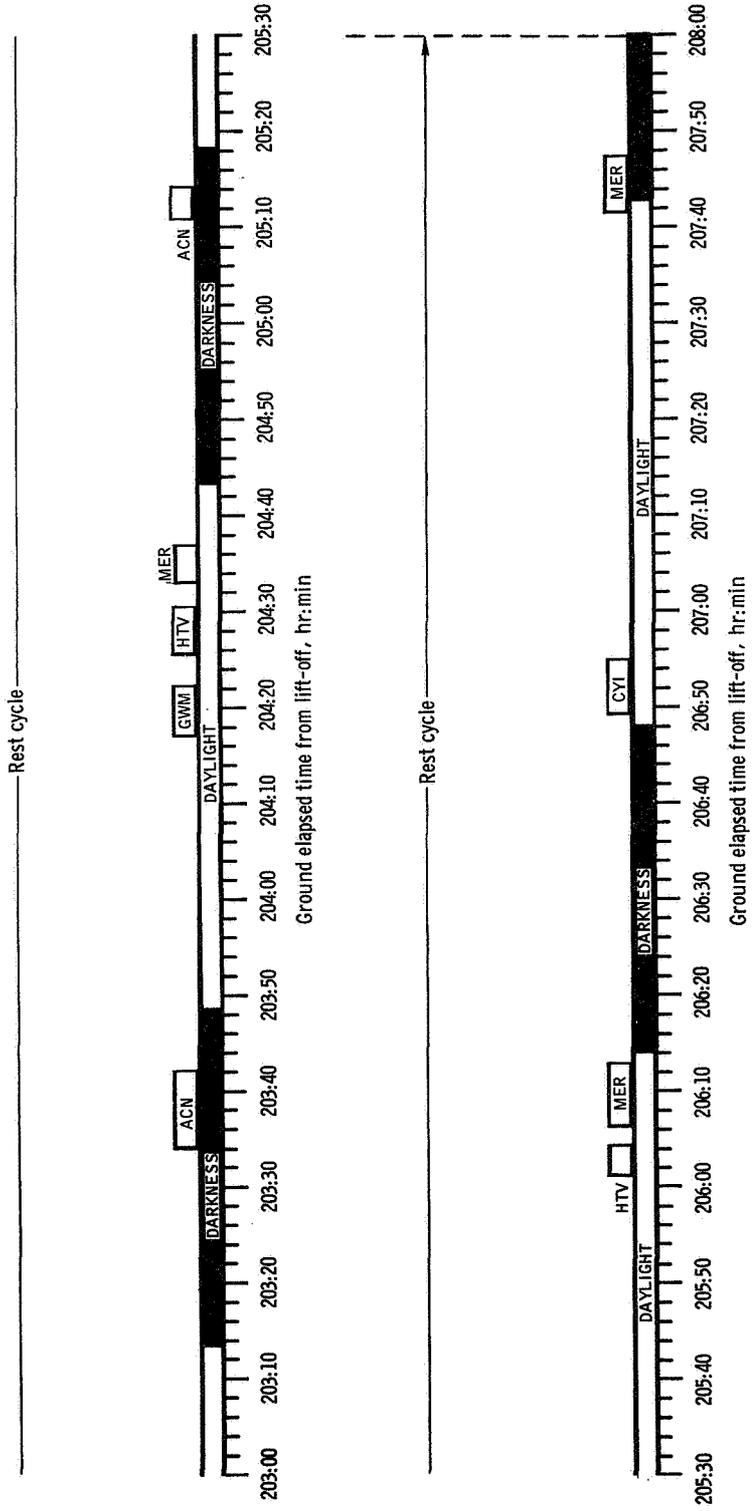
(mm) 193 hours to 198 hours.

Figure 1.- Continued.



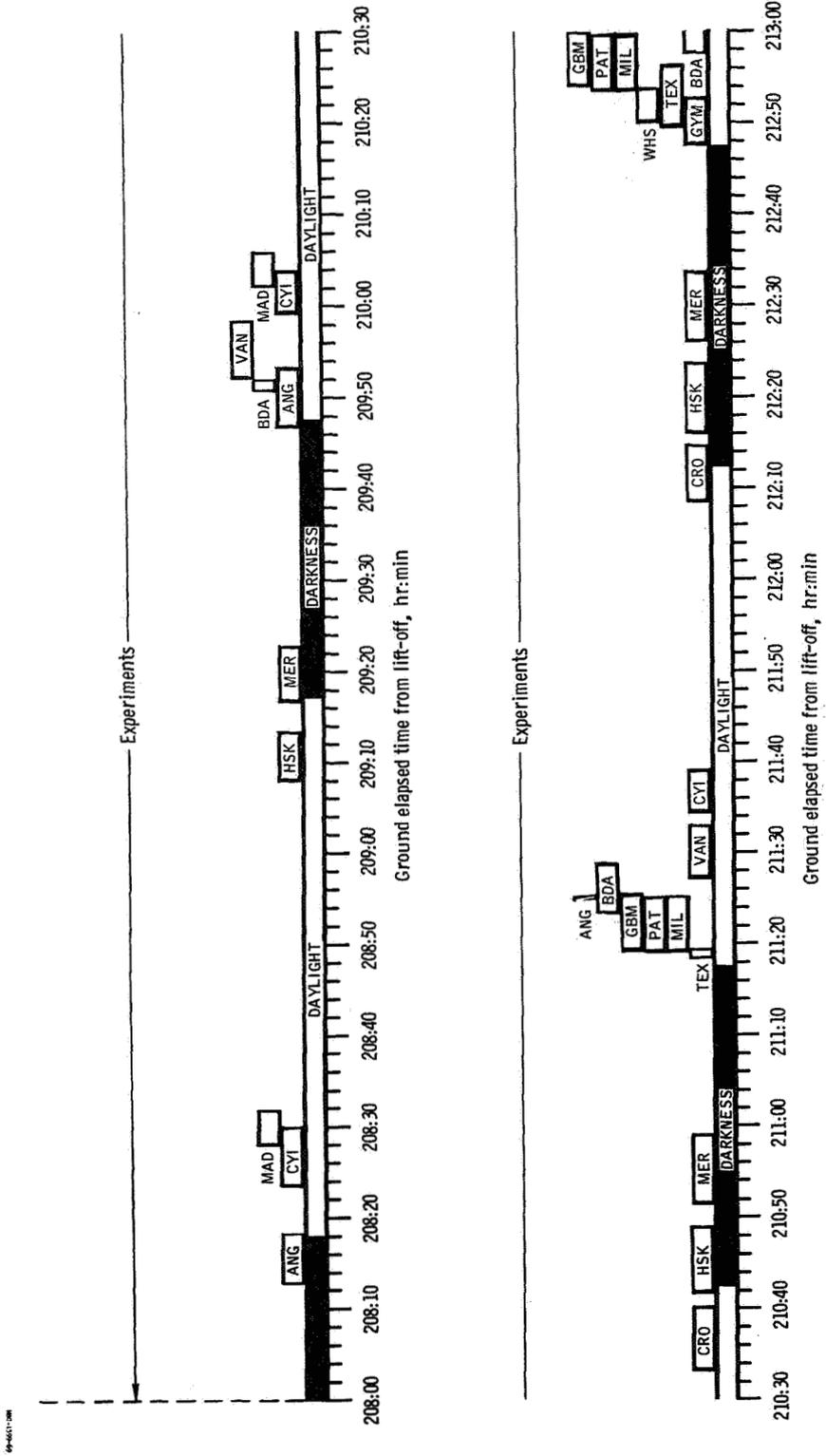
(nn) 198 hours to 203 hours.

Figure 1.- Continued.



(oo) 203 hours to 208 hours.

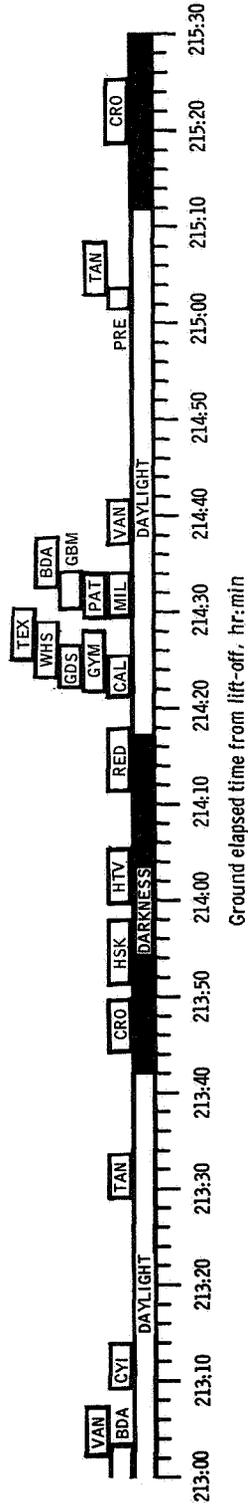
Figure 1. - Continued.



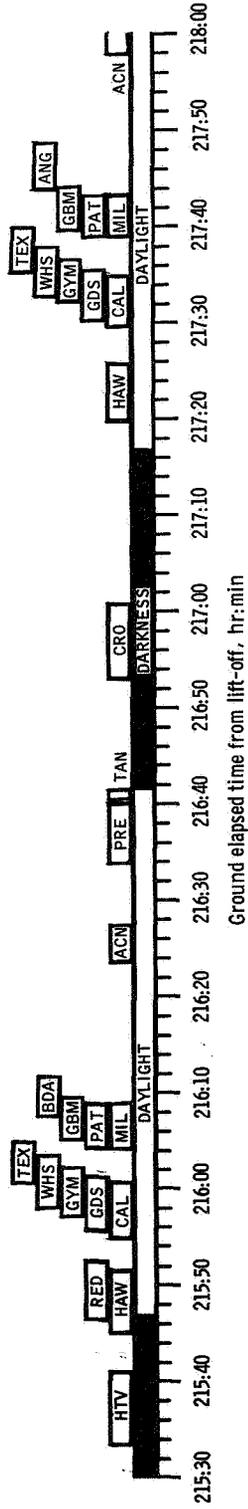
(pp) 208 hours to 213 hours.

Figure 1.- Continued.

Experiments

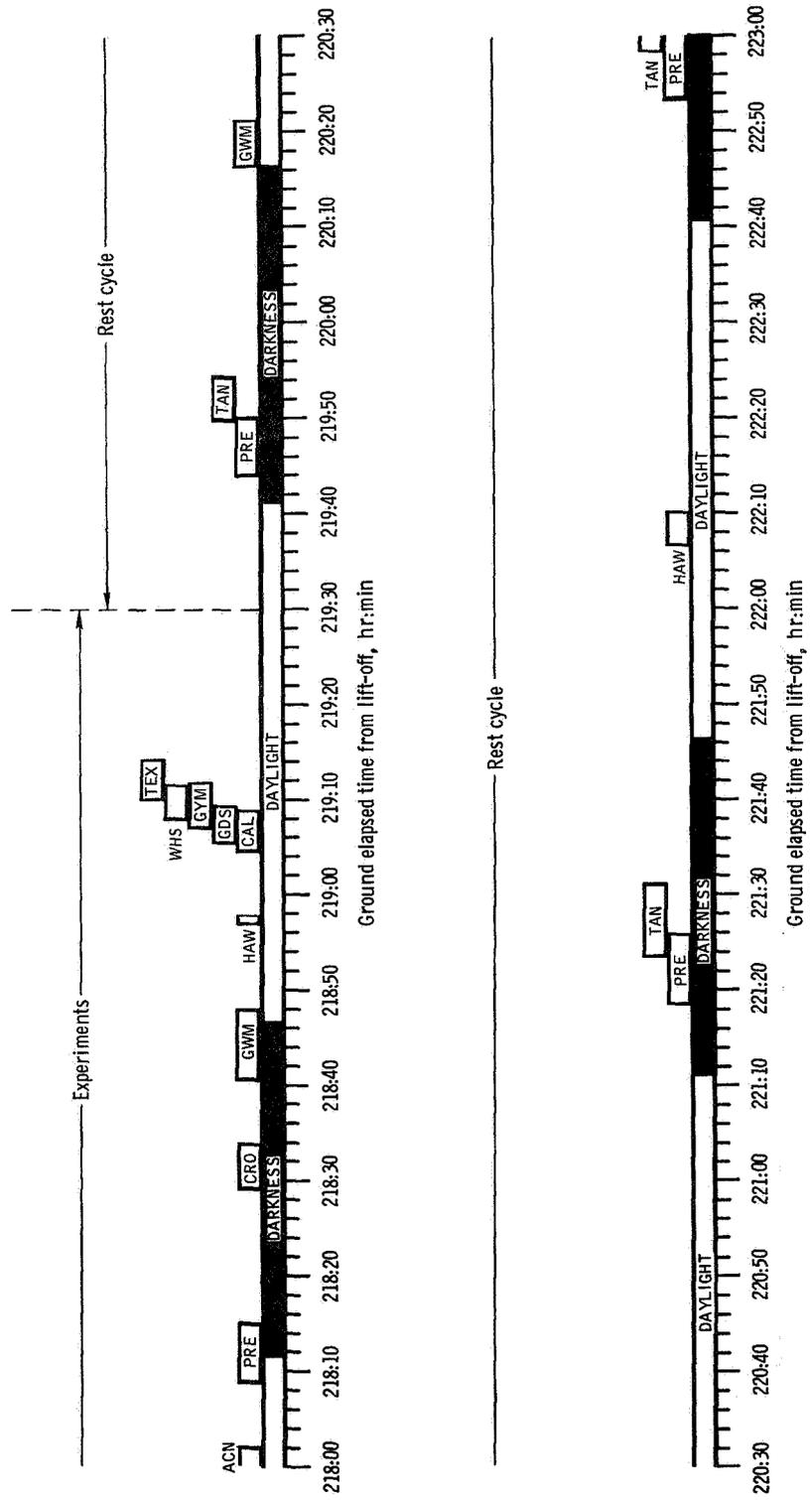


Experiments



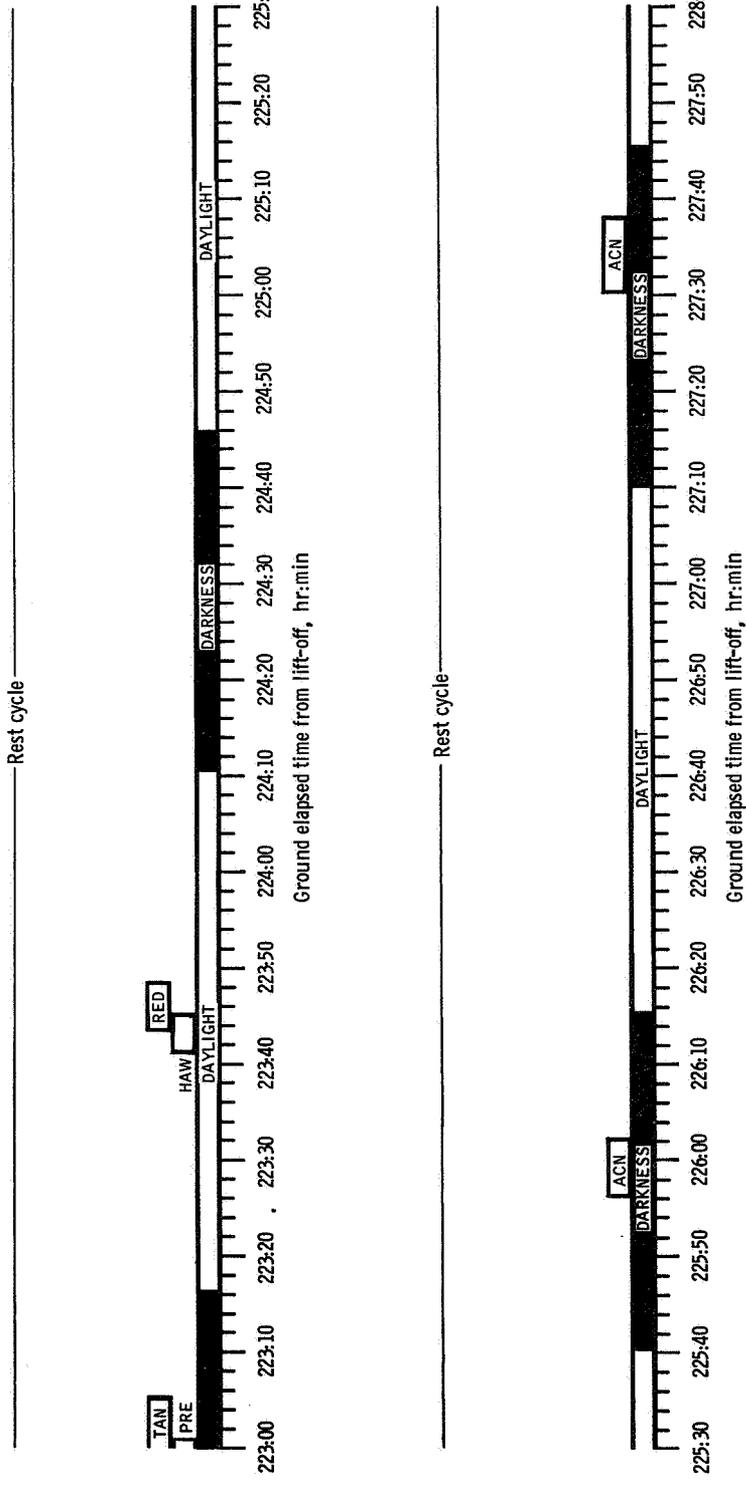
(qq) 213 hours to 218 hours.

Figure 1. - Continued.



(rr) 218 hours to 223 hours.

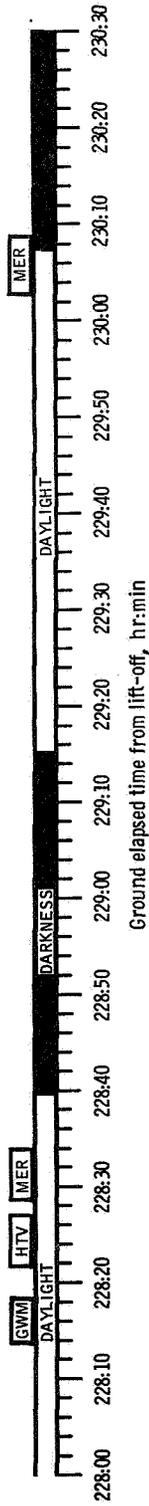
Figure 1.- Continued.



(ss) 223 hours to 228 hours.

Figure 1.- Continued.

Rest cycle

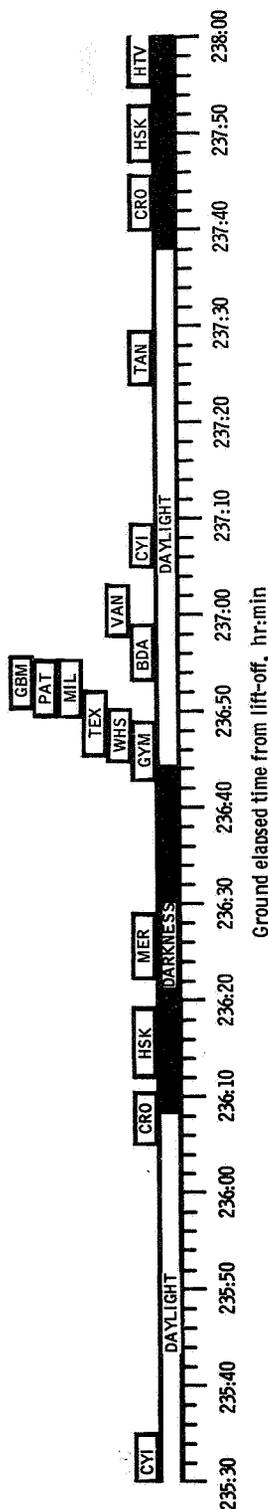
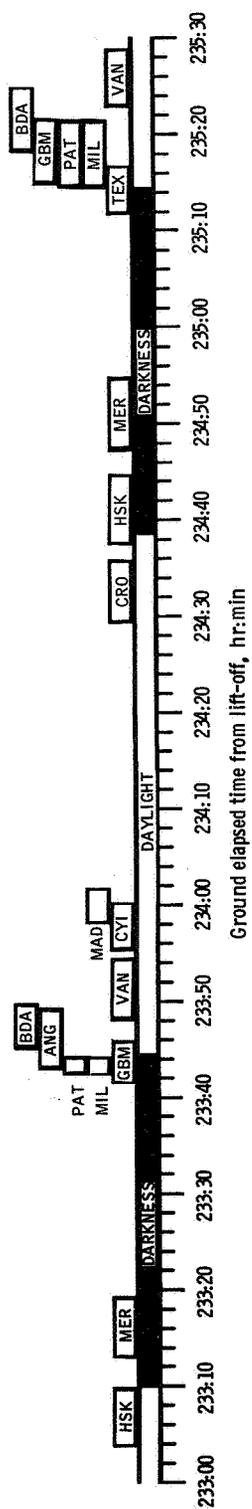


Rest cycle



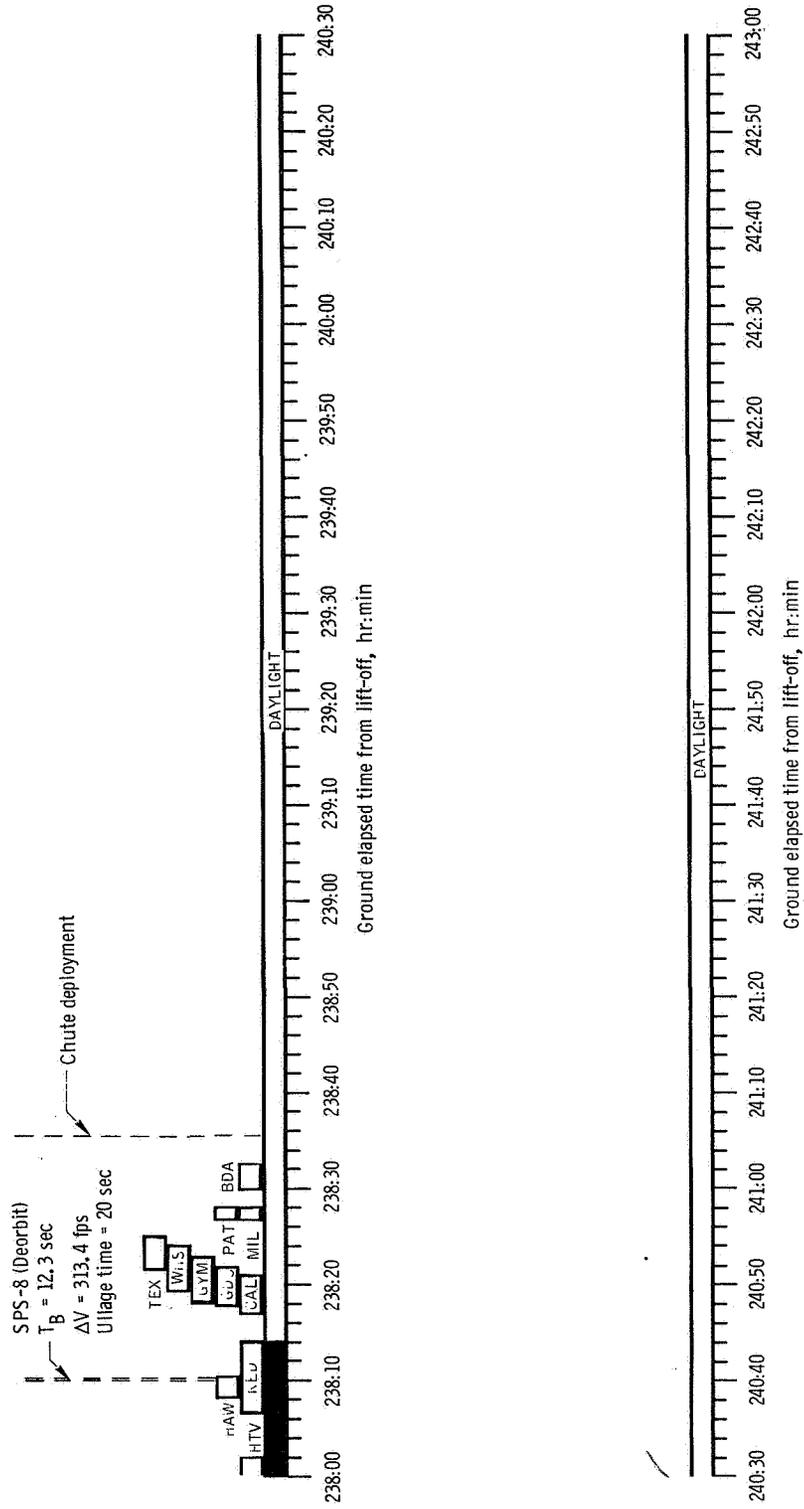
(ft) 228 hours to 233 hours.

Figure 1.- Continued.



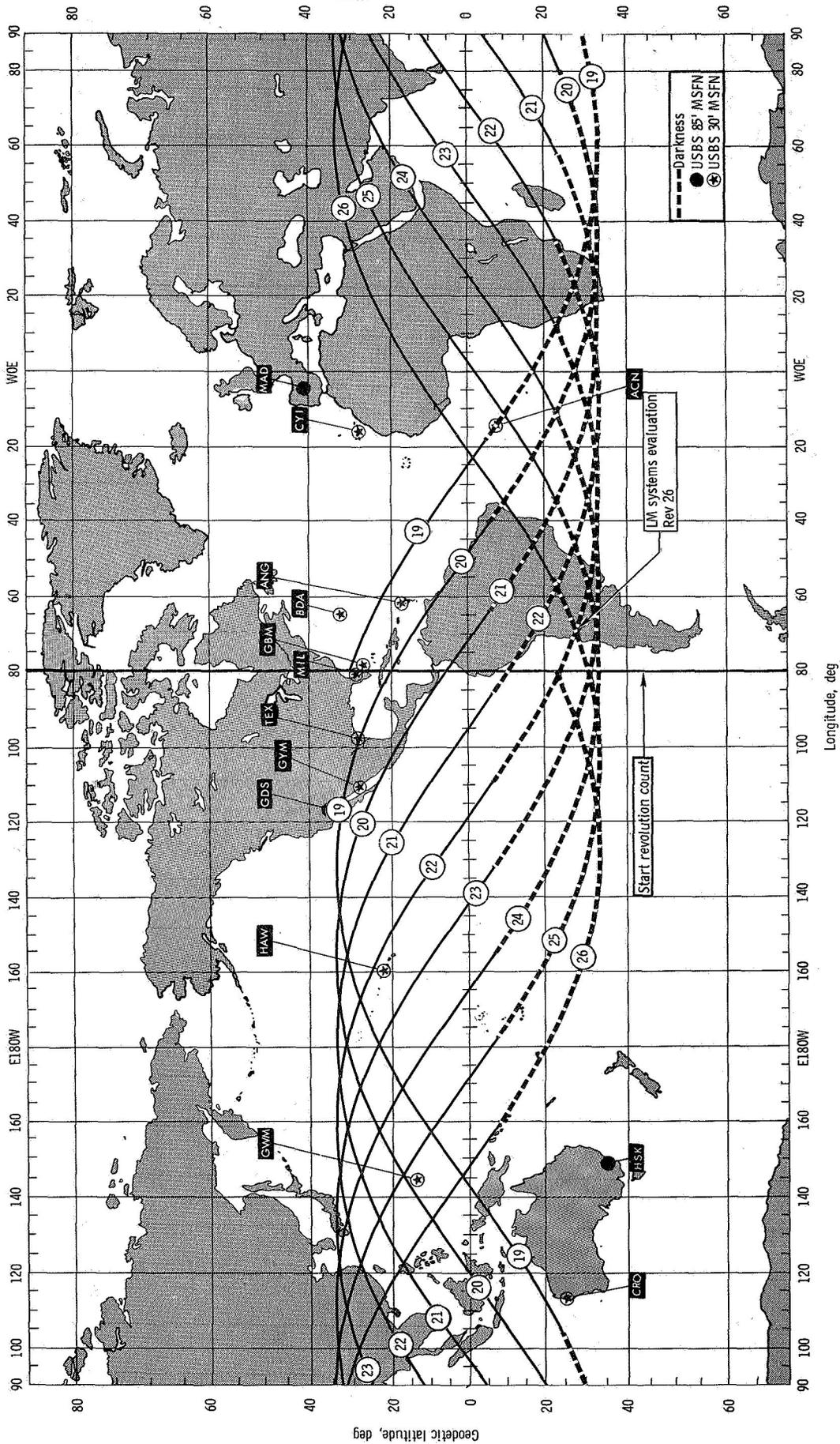
(uu) 233 hours to 238 hours.

Figure 1.- Continued.



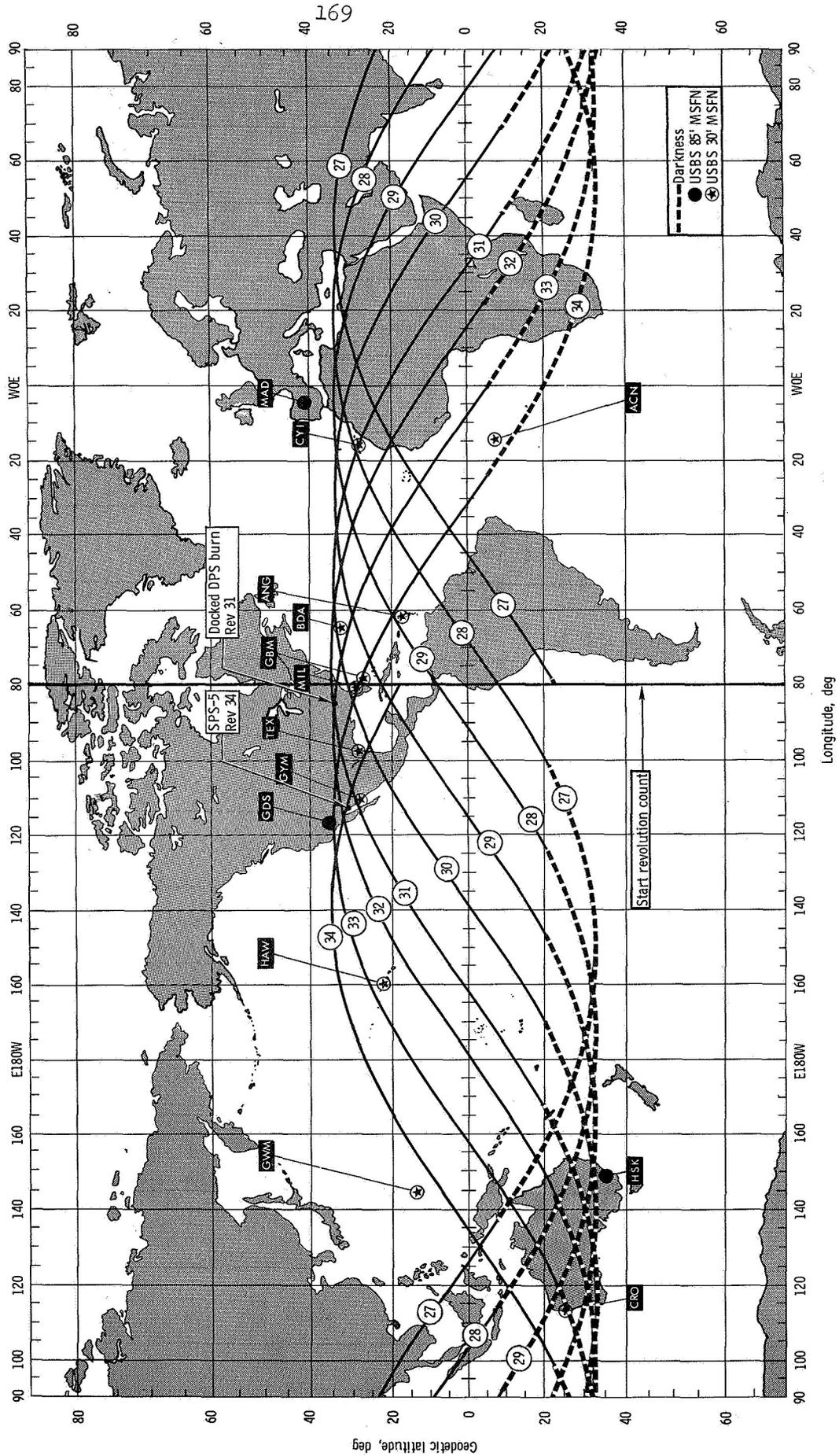
(w) 238 hours to 243 hours.

Figure 1.- Concluded.



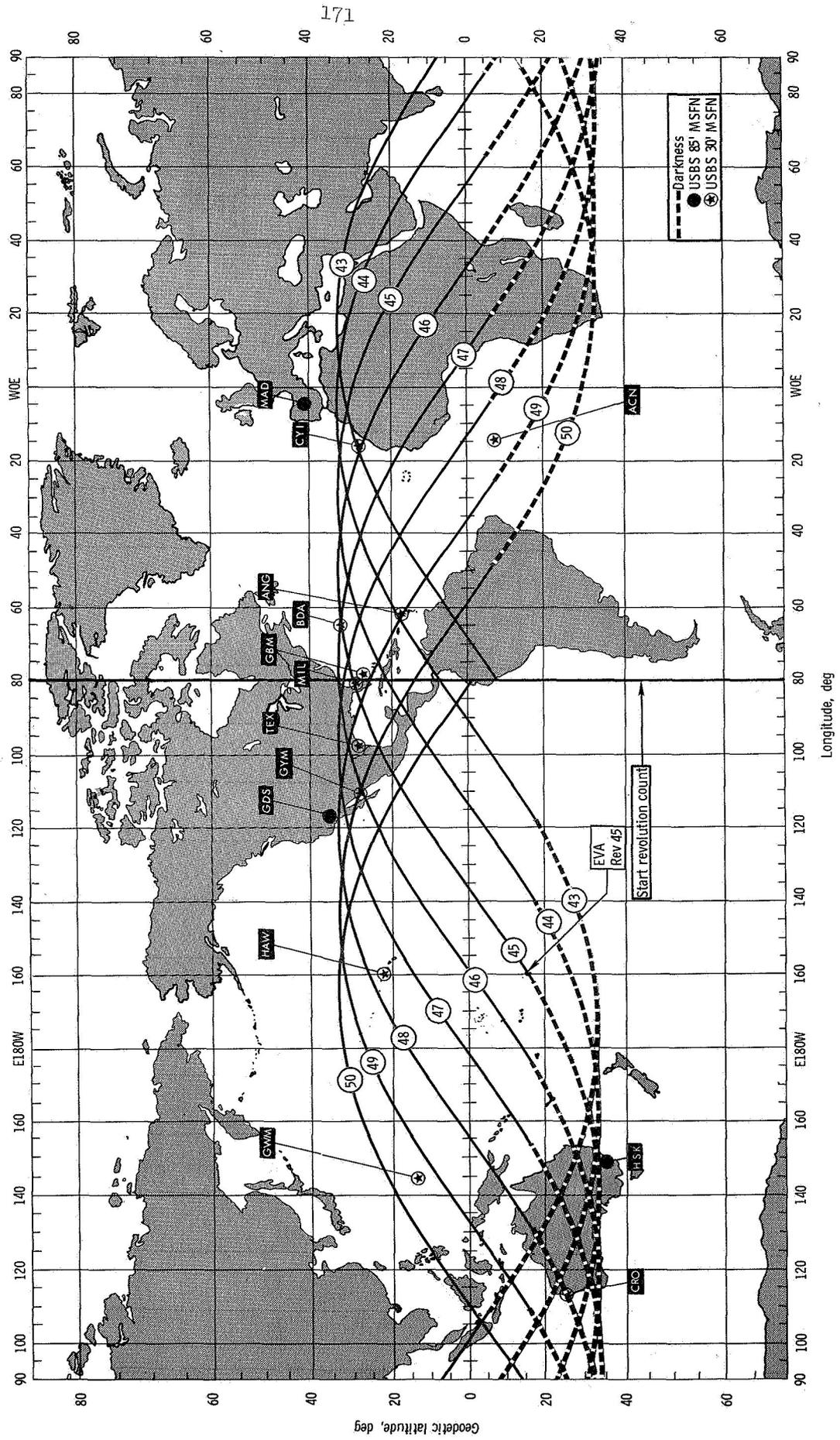
(c) Revolutions 19 through 26.

Figure 2 - Continued.



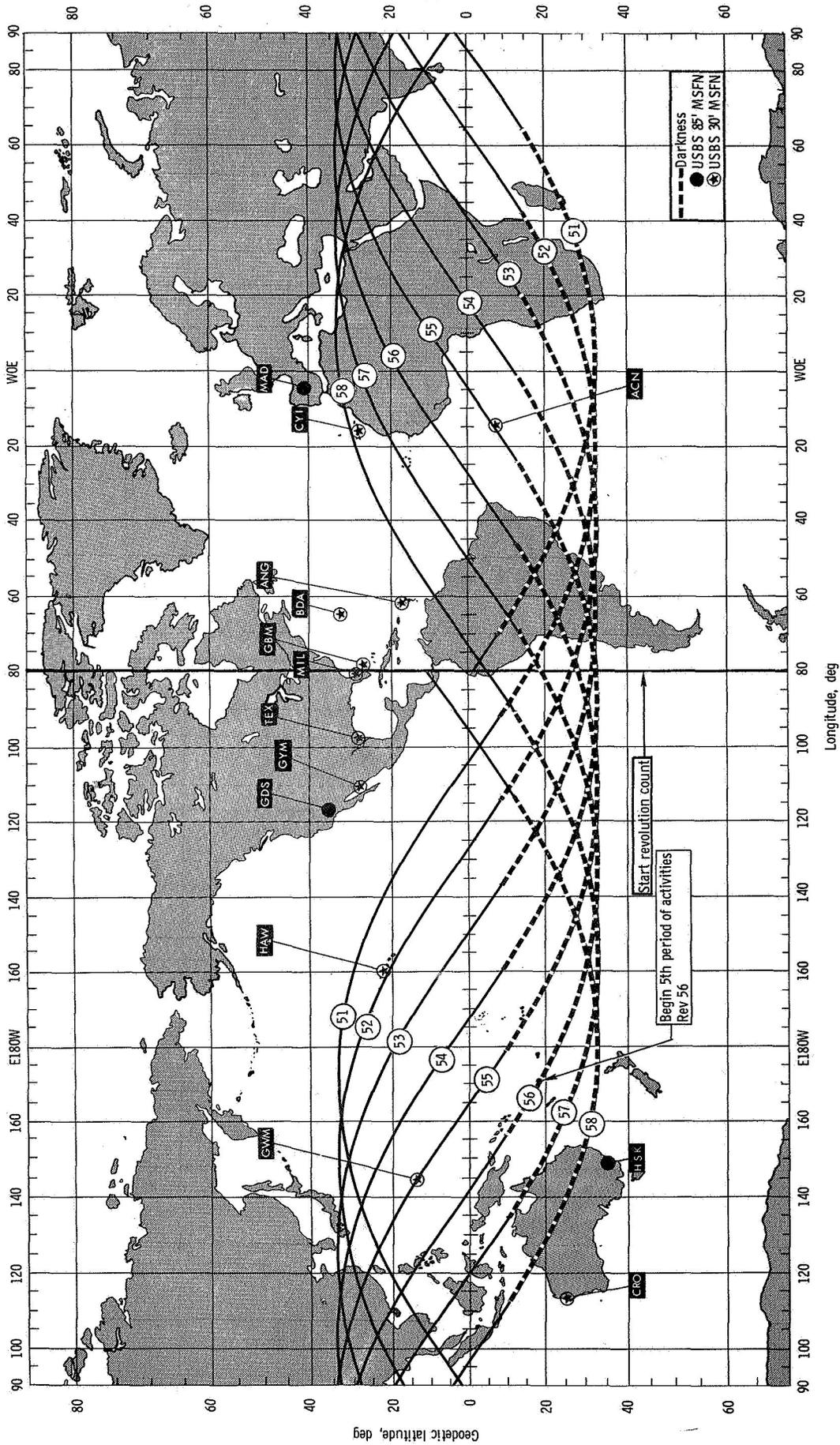
(d) Revolutions 27 through 34

Figure 2 - Continued.



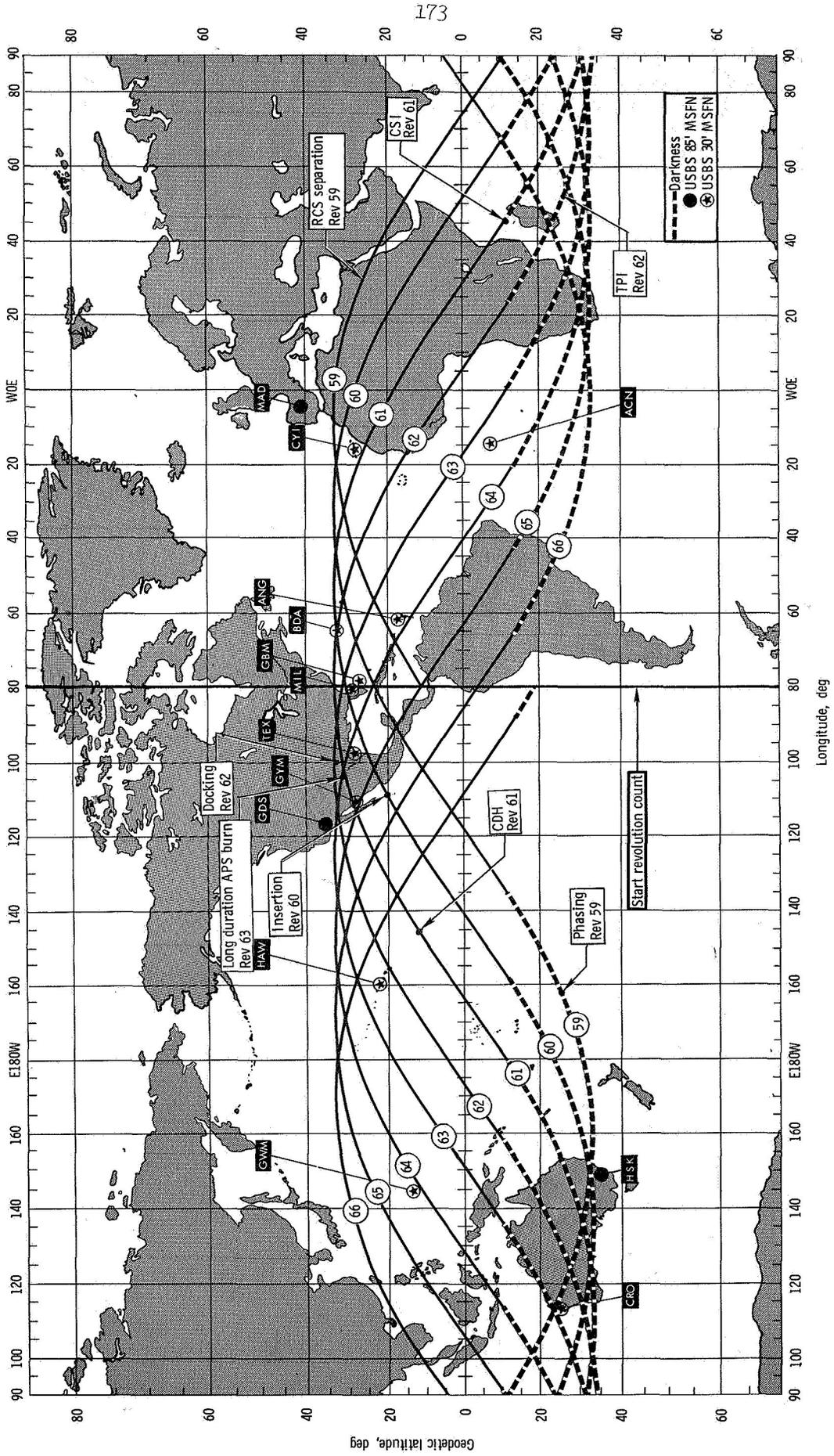
(f) Revolutions 43 through 50.

Figure 2 - Continued.

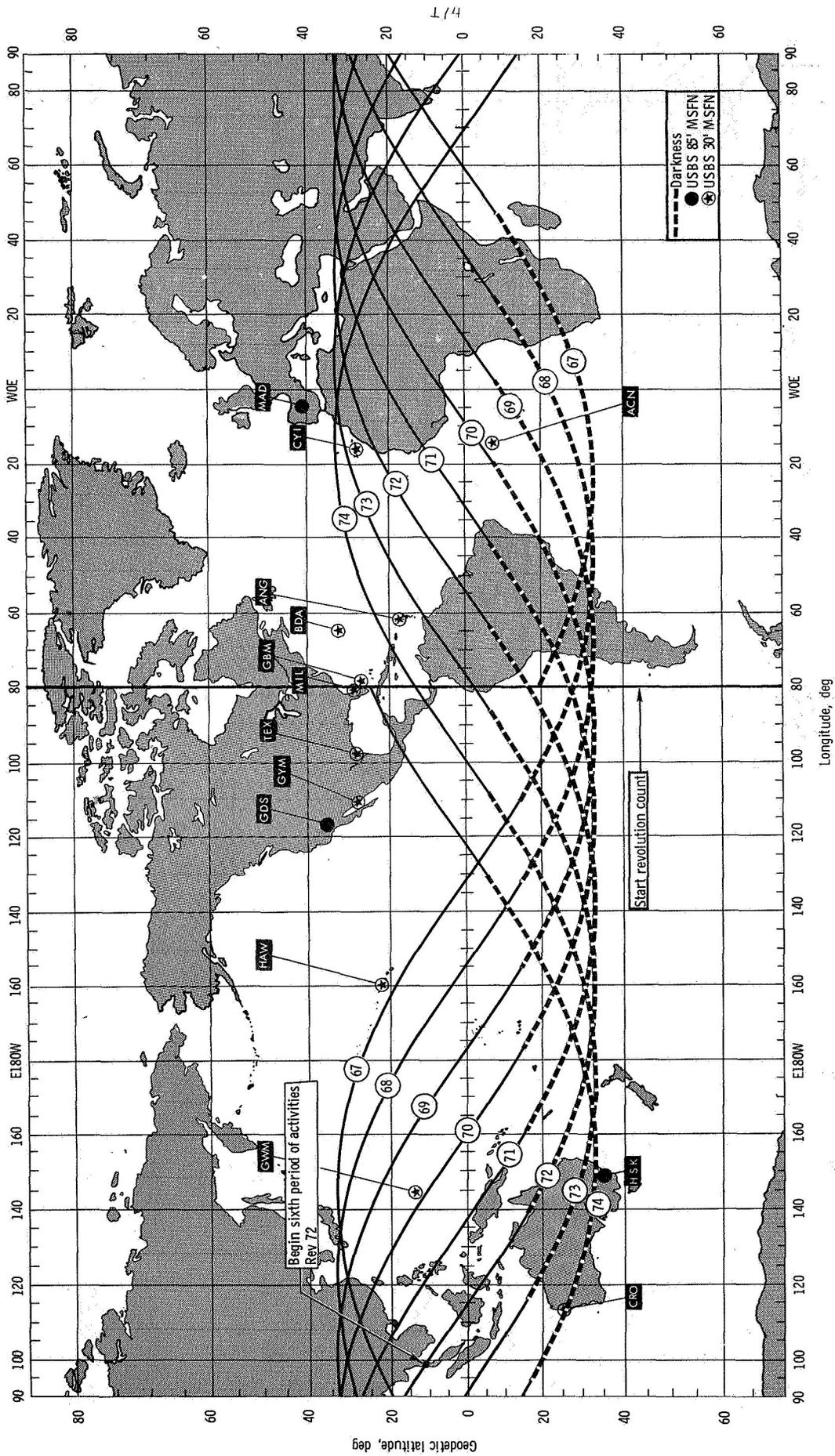


(g) Revolutions 51 through 58.

Figure 2. - Continued.

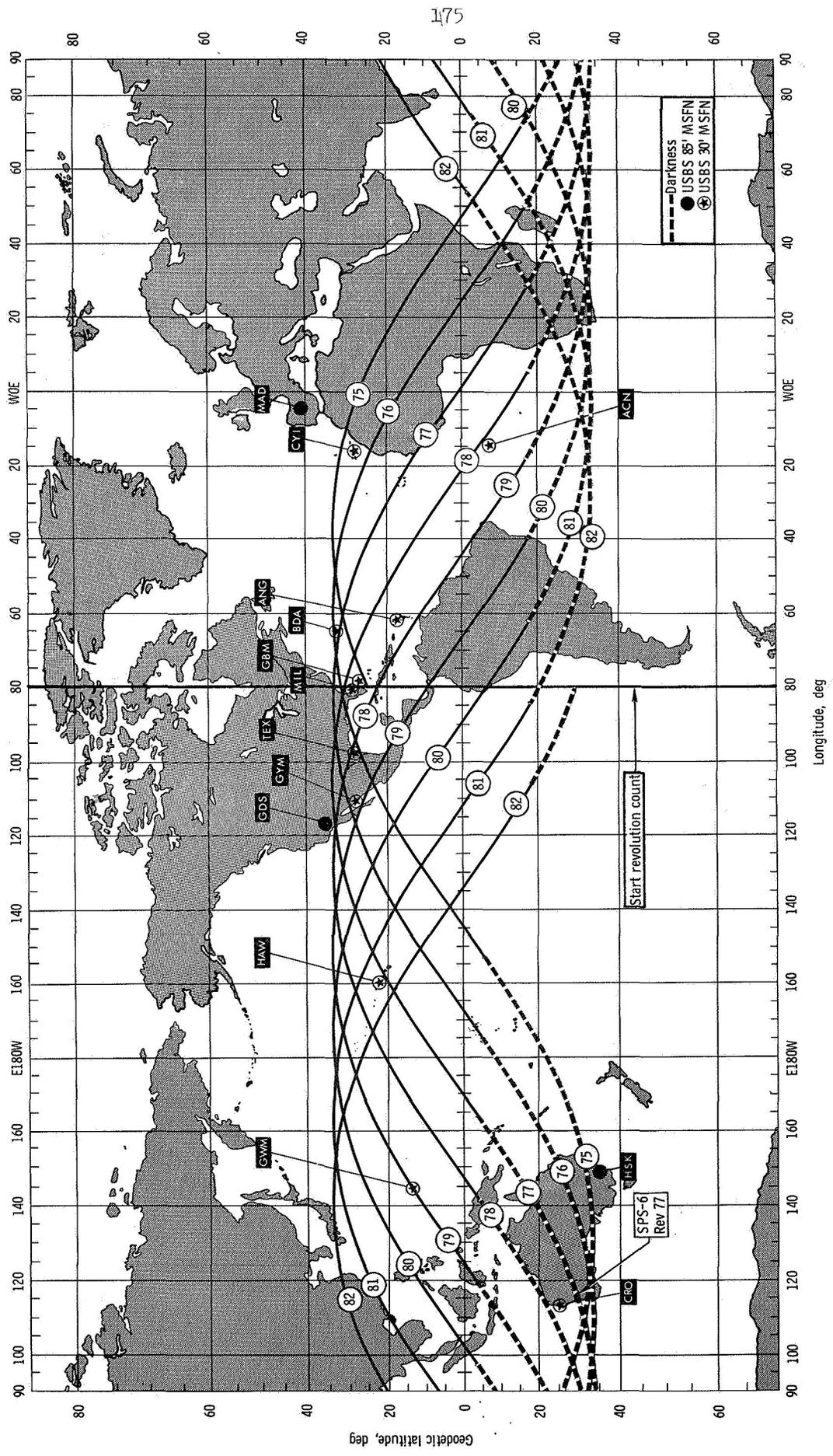


(h) Revolutions 59 through 66.
Figure 2. - Continued.



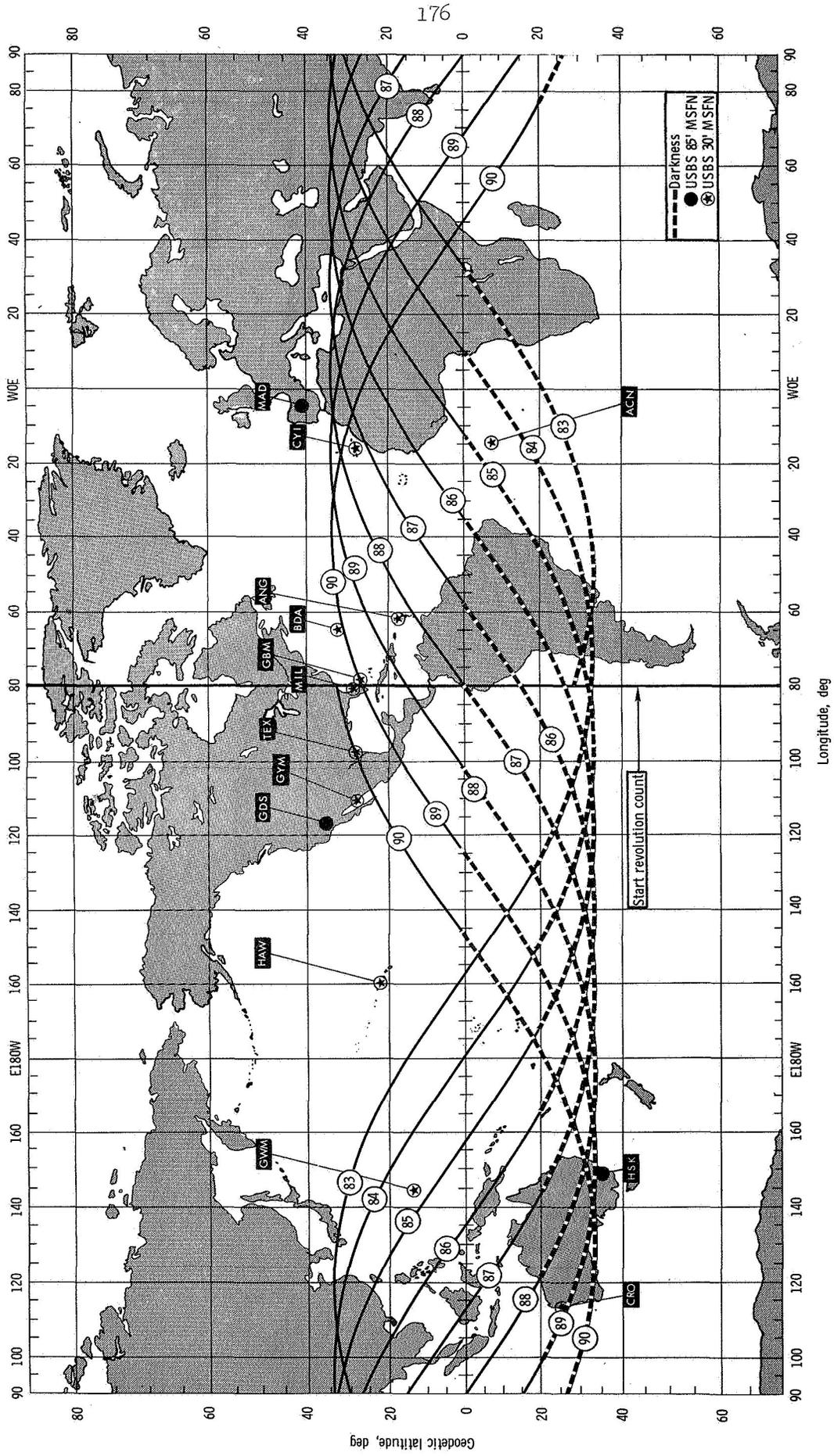
(f) Revolutions 67 through 74.

Figure 2 - Continued.



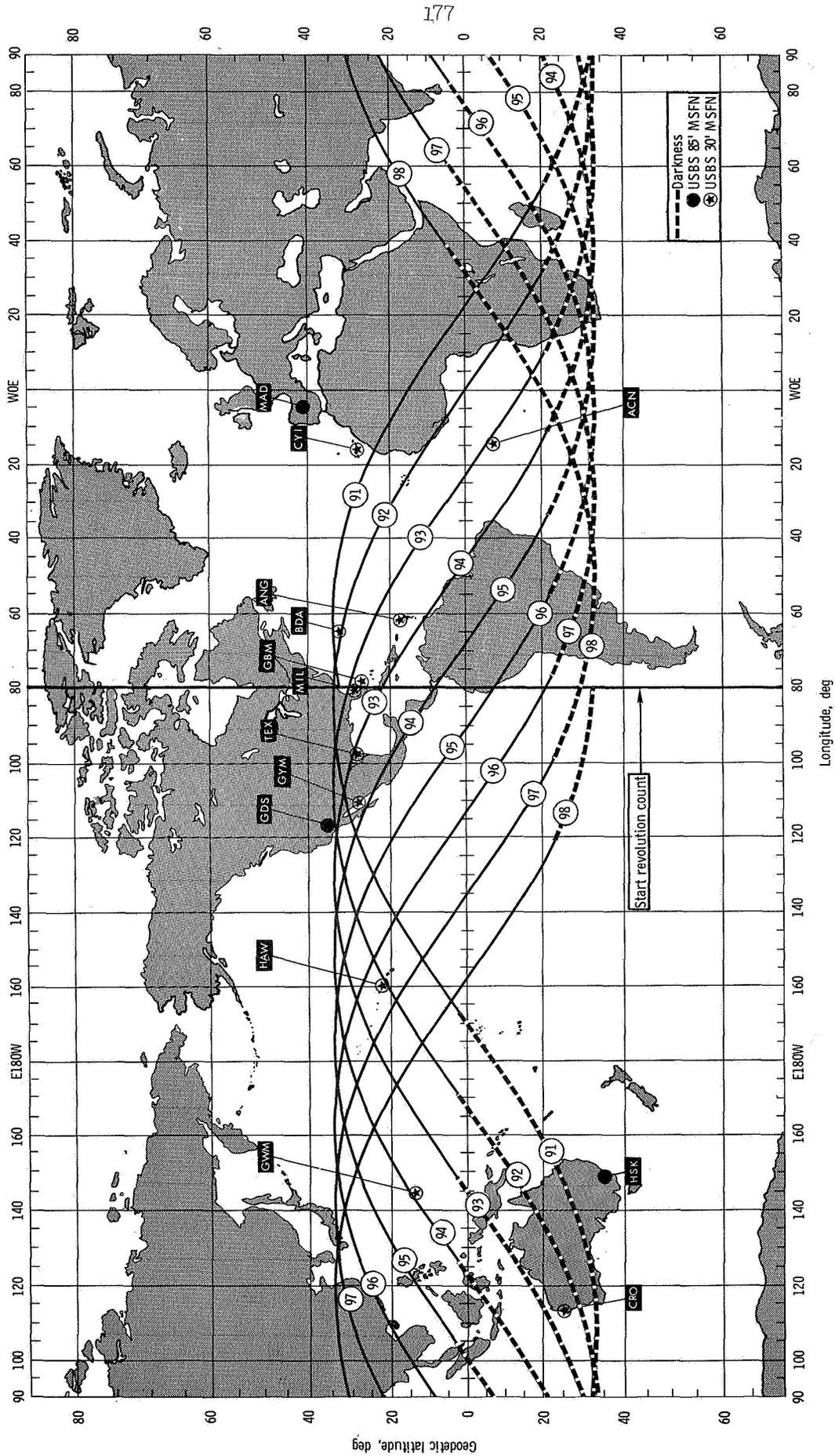
(j) Revolutions 75 through 82.

Figure 2. - Continued.



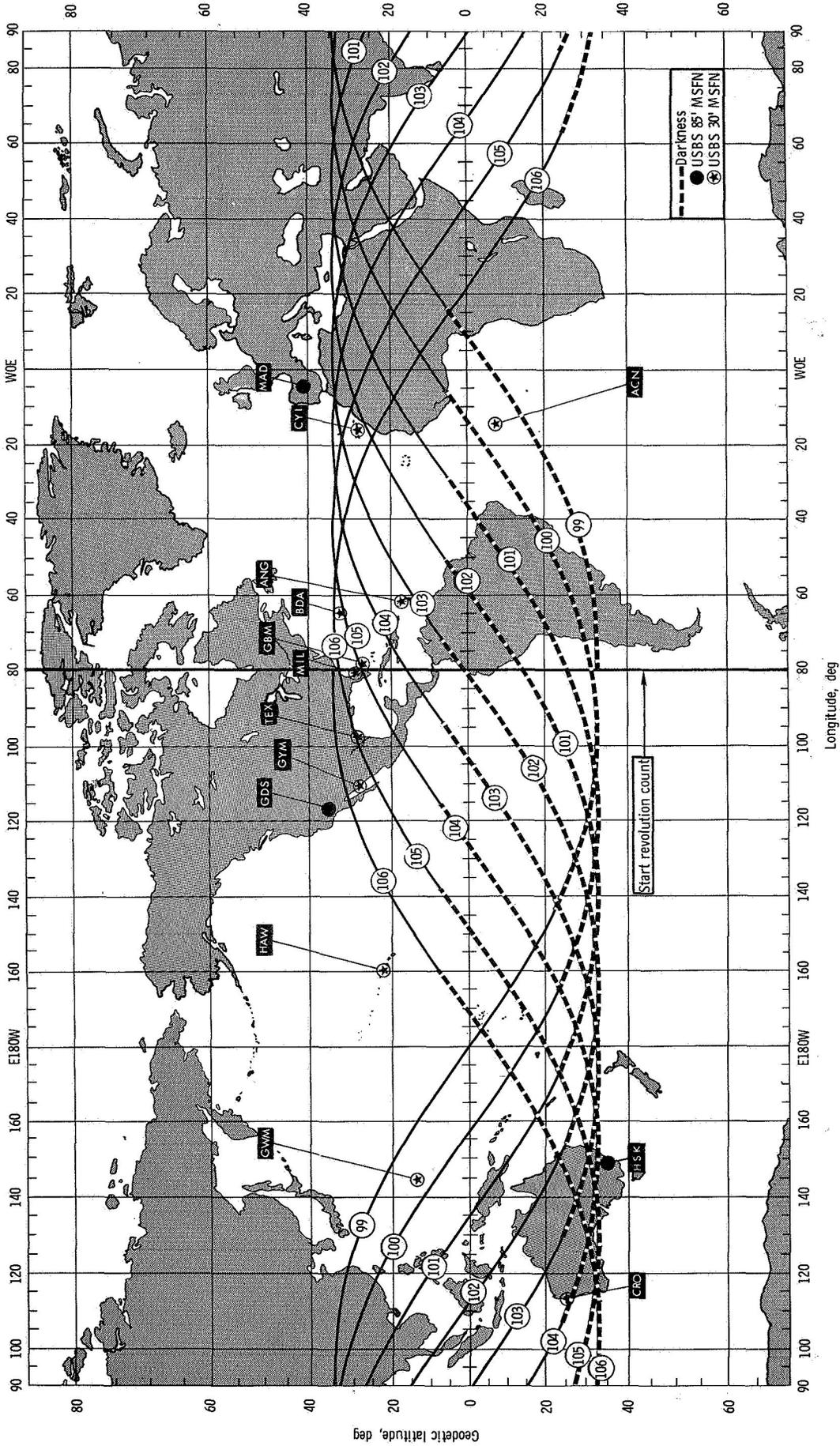
(k) Revolutions 83 through 90.

Figure 2. - Continued.



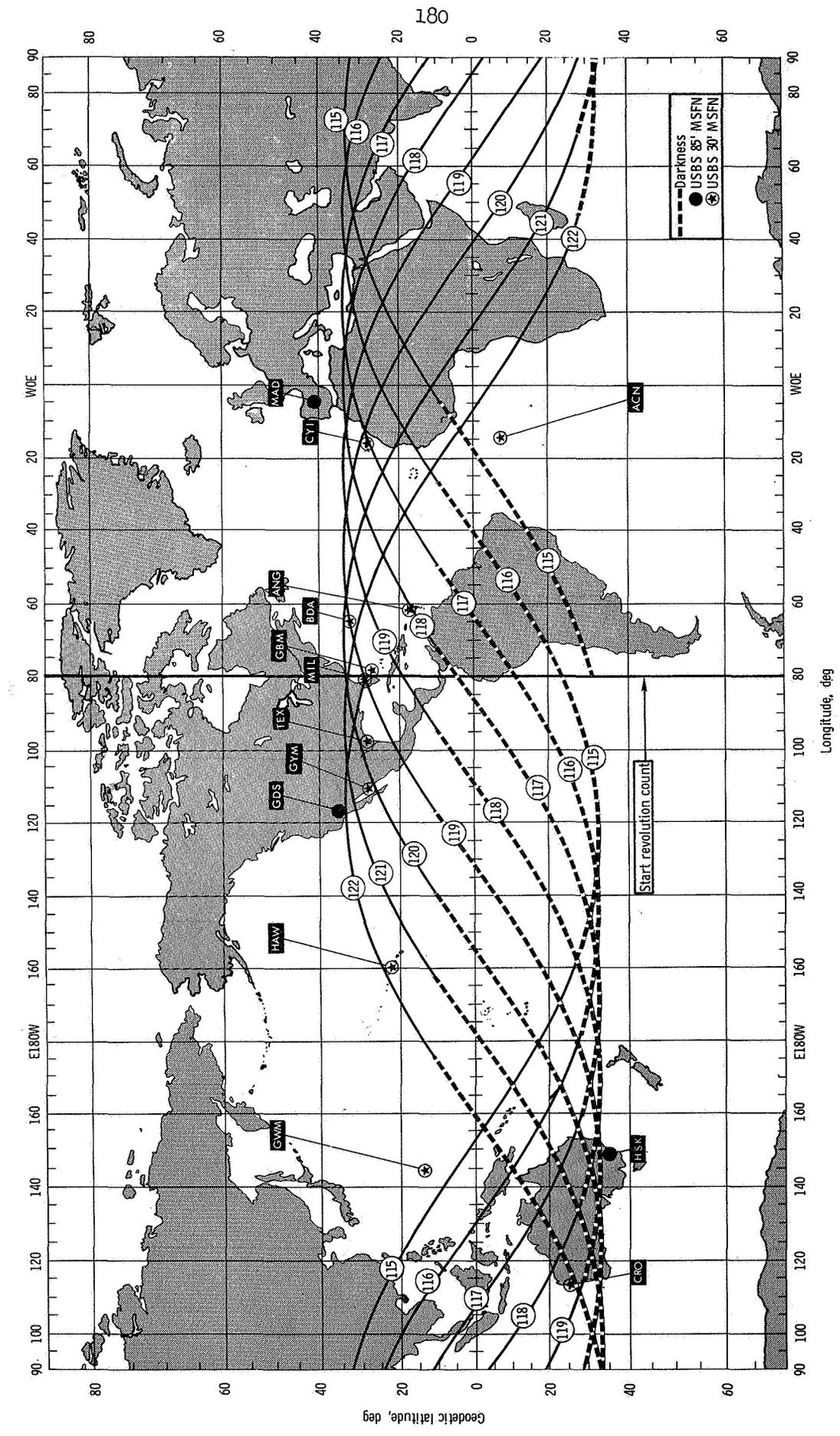
(i) Revolutions 91 through 98.

Figure 2 - Continued.



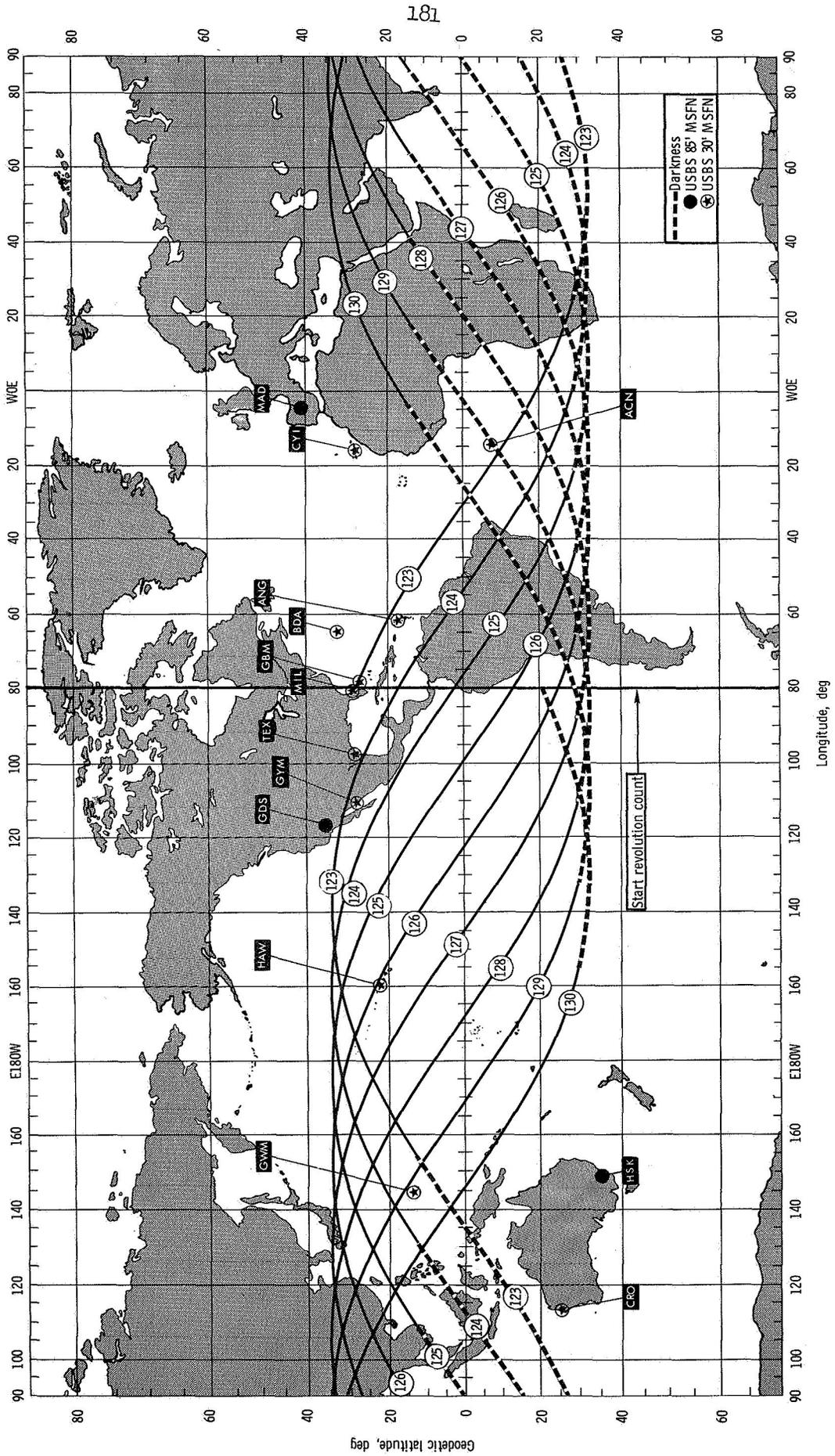
(m) Revolutions 99 through 106.

Figure 2. - Continued.



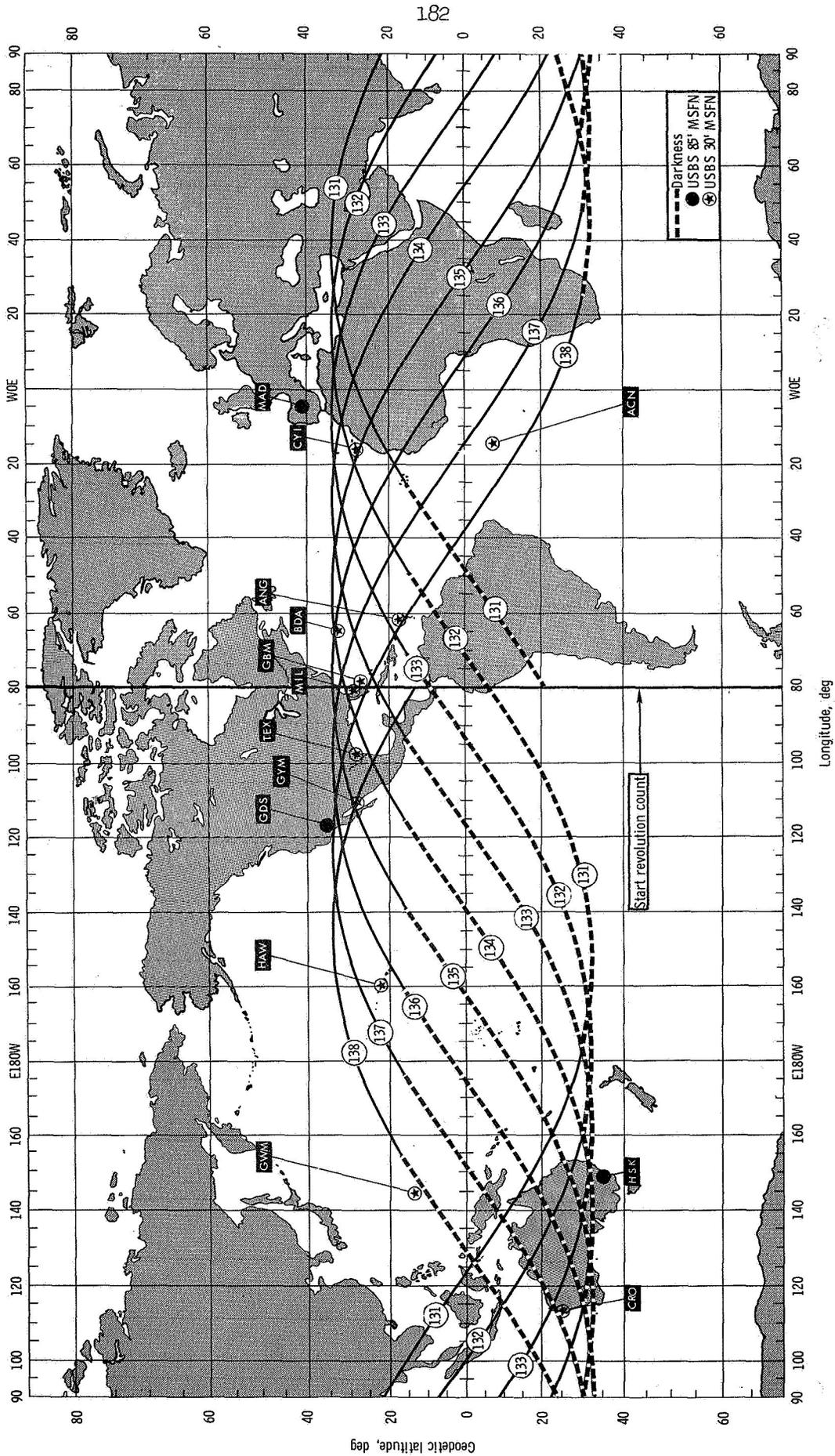
(o) Revolutions 115 through 122.

Figure 2. - Continued.



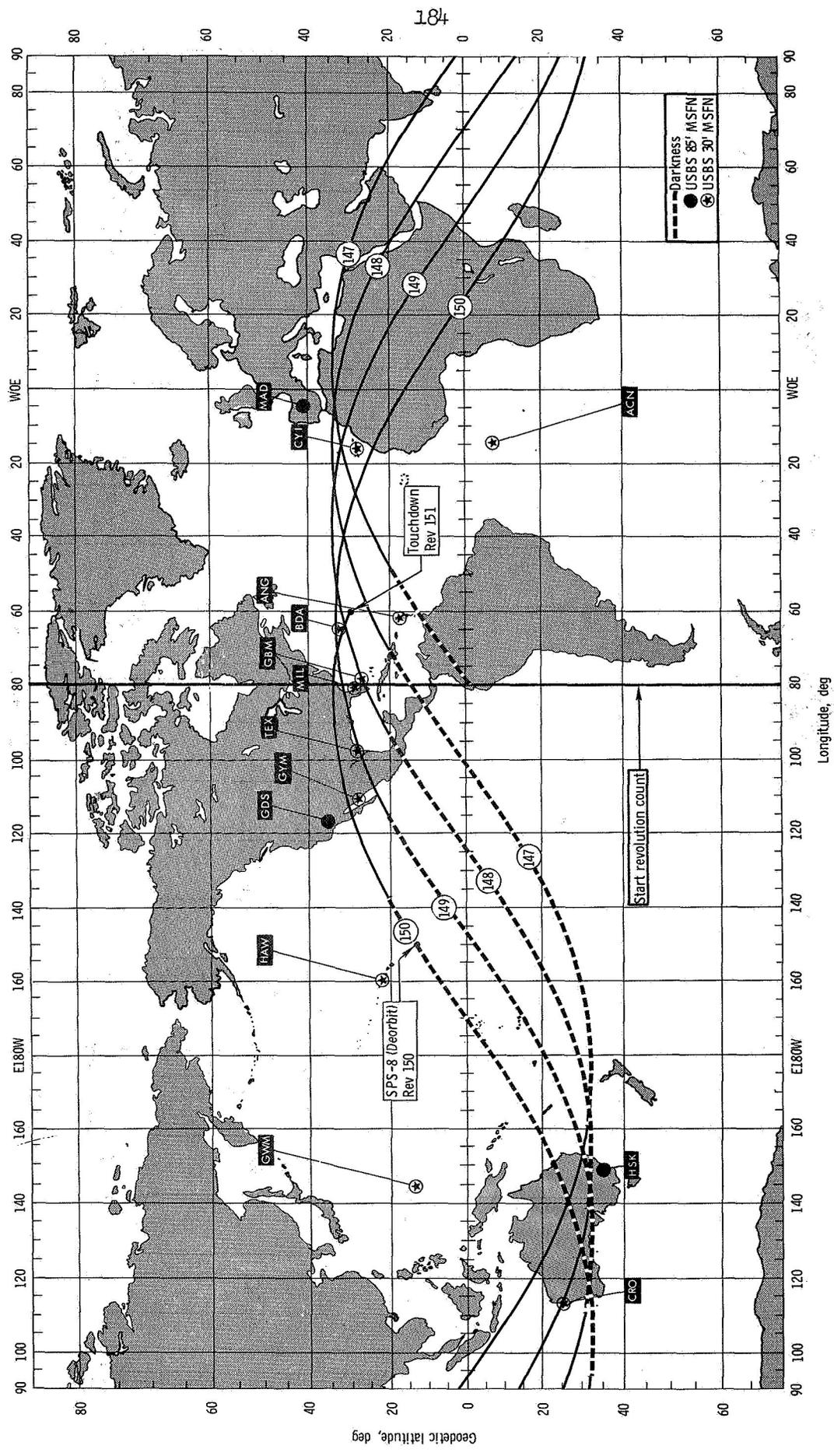
(p) Revolutions 123 through 130.

Figure 2. - Continued.



(q) Revolutions 131 through 138.

Figure 2. - Continued.



(s) Revolutions 147 to touchdown.

Figure 2. - Concluded.

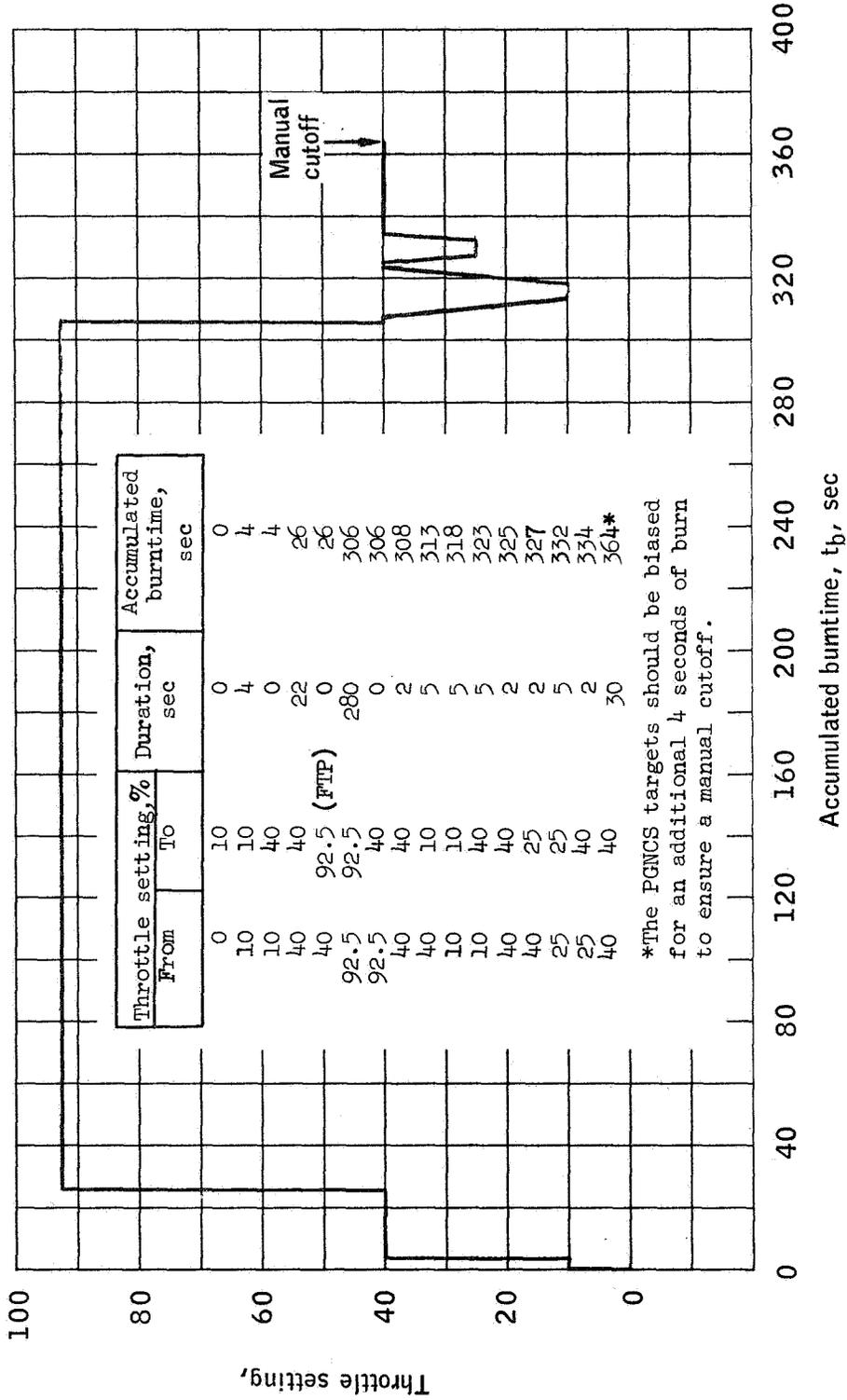


Figure 3.- DPS throttle profile during docked DPS burn.

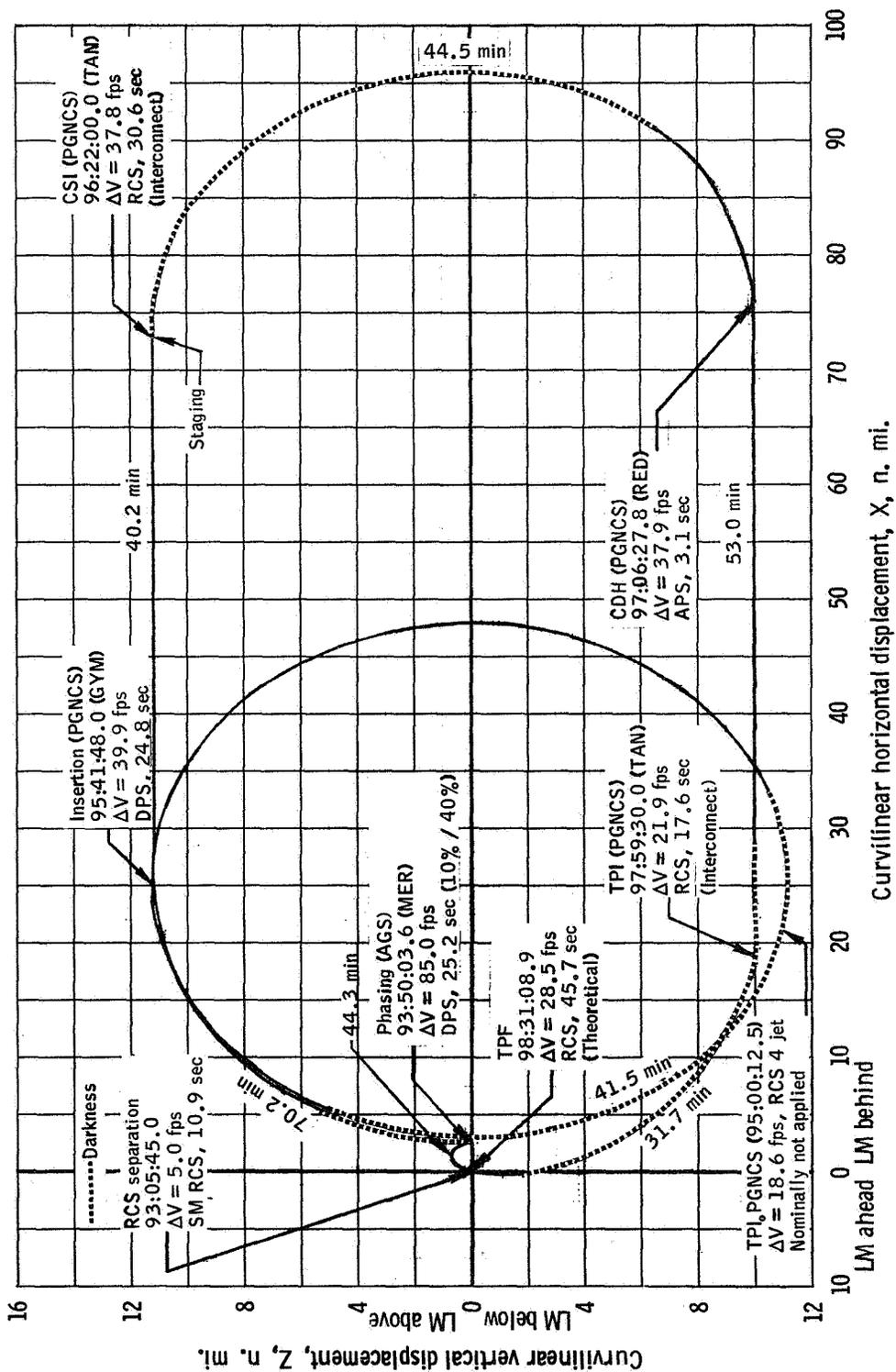


Figure 4. - Relative motion (curvilinear, CSM-centered) for LM-active rendezvous of mission D.

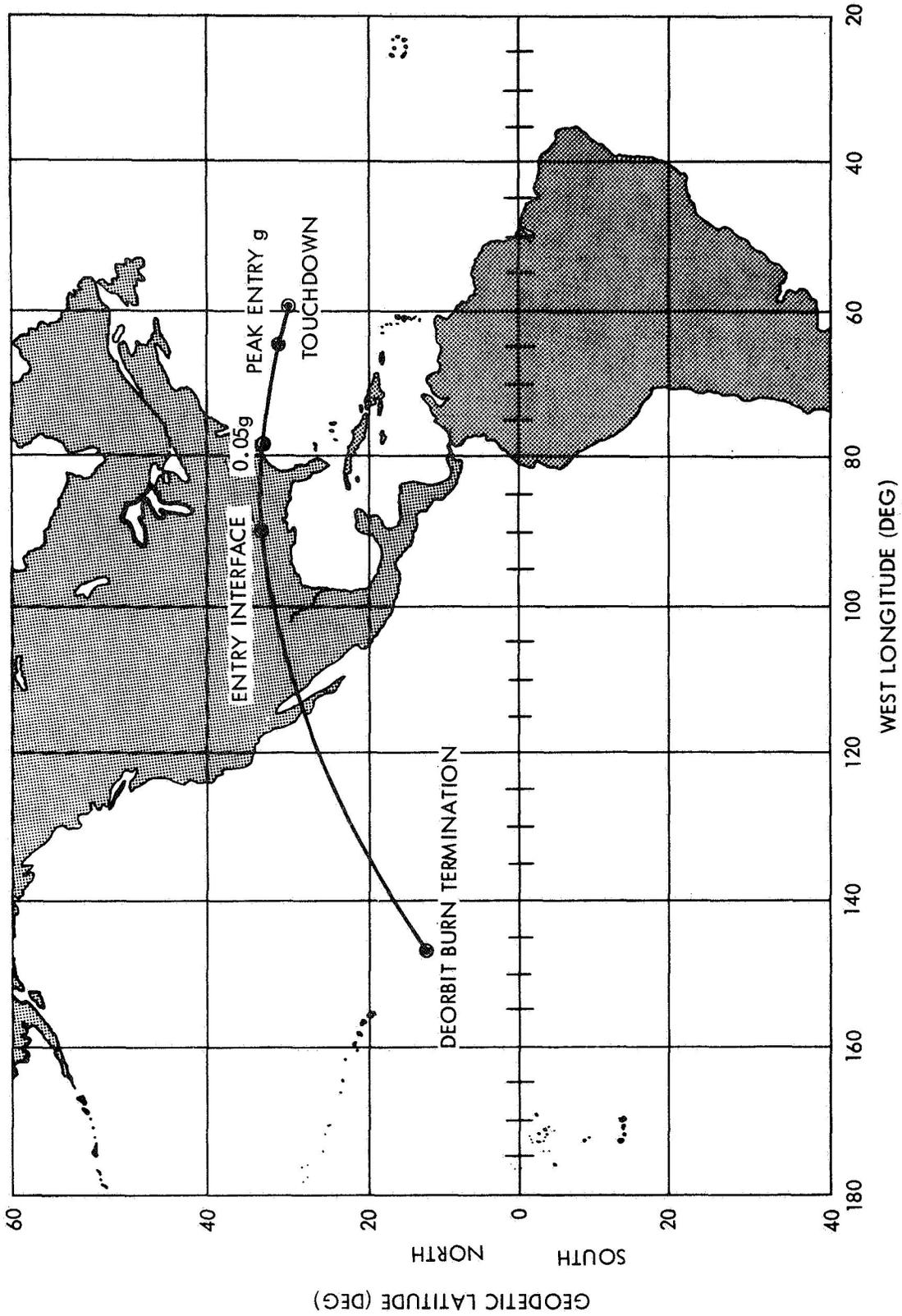


Figure 5. Entry ground track for deorbit maneuvers.

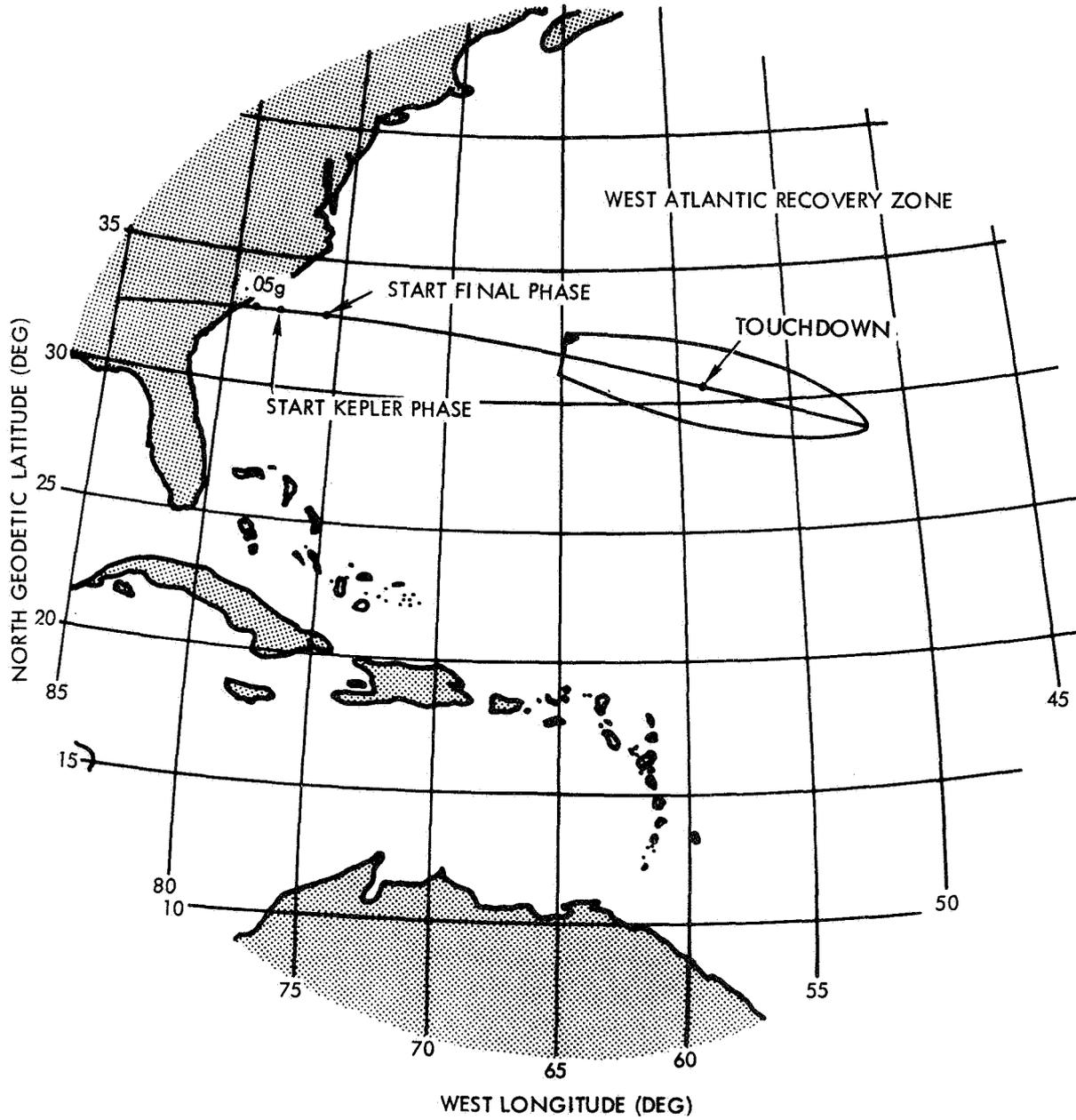


Figure 6. CM maneuver envelope from an SPS deorbit.

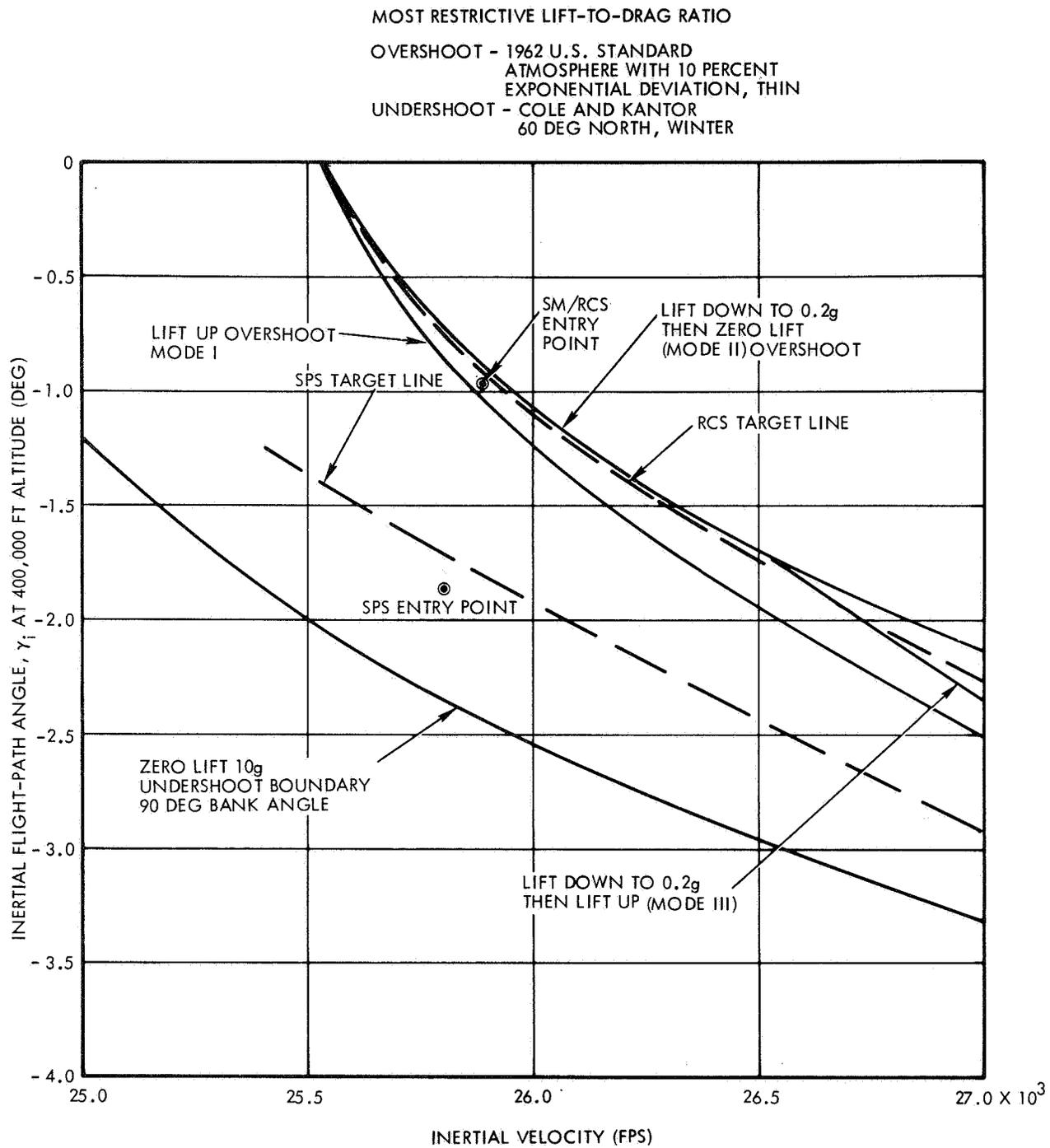


Figure 7. Low-speed reentry corridor.

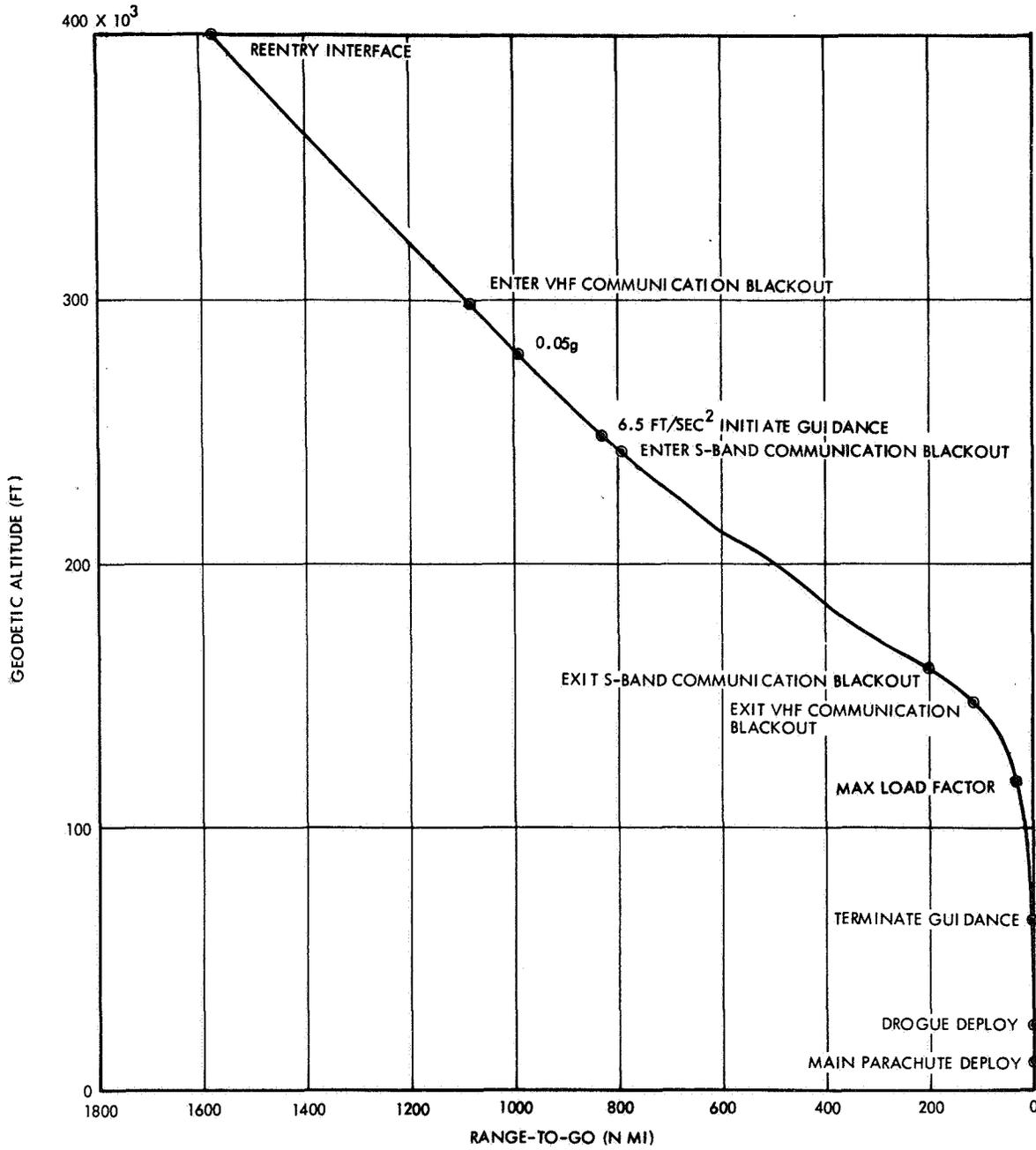


Figure 8. Altitude and range profile for reentry.

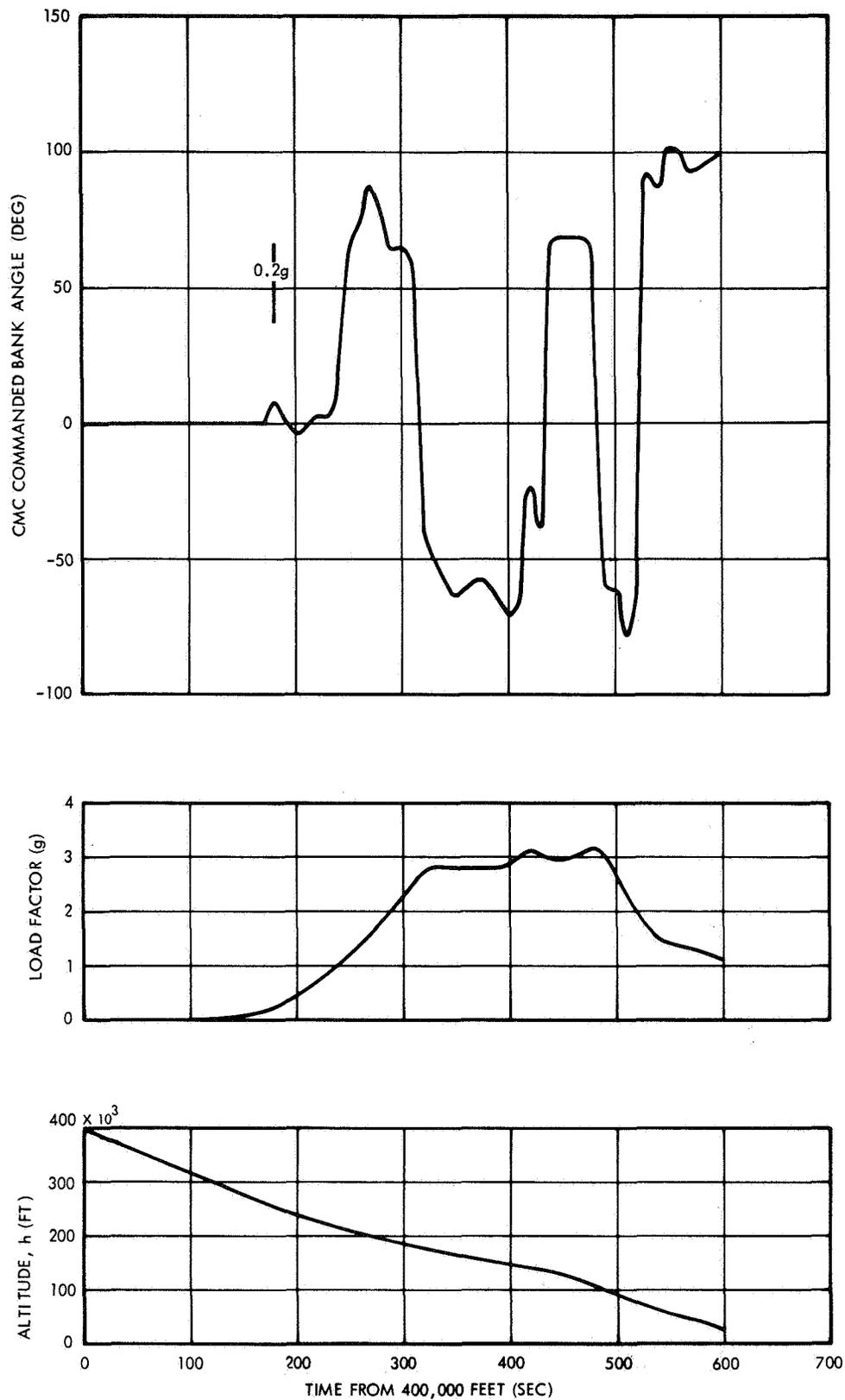


Figure 9. CMC commanded bank angle, load factor, and altitude time histories.

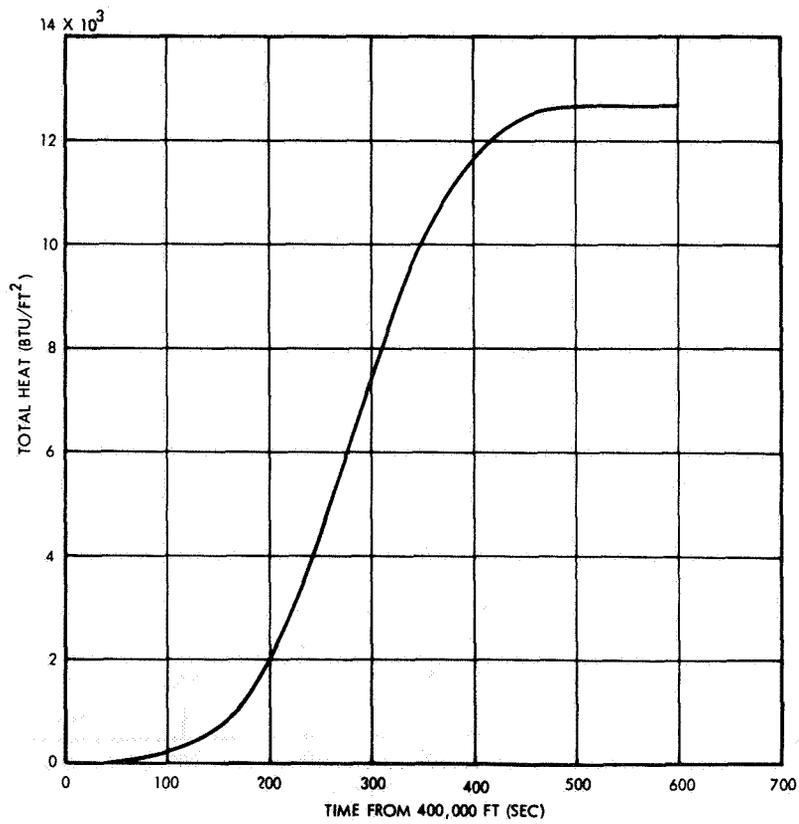
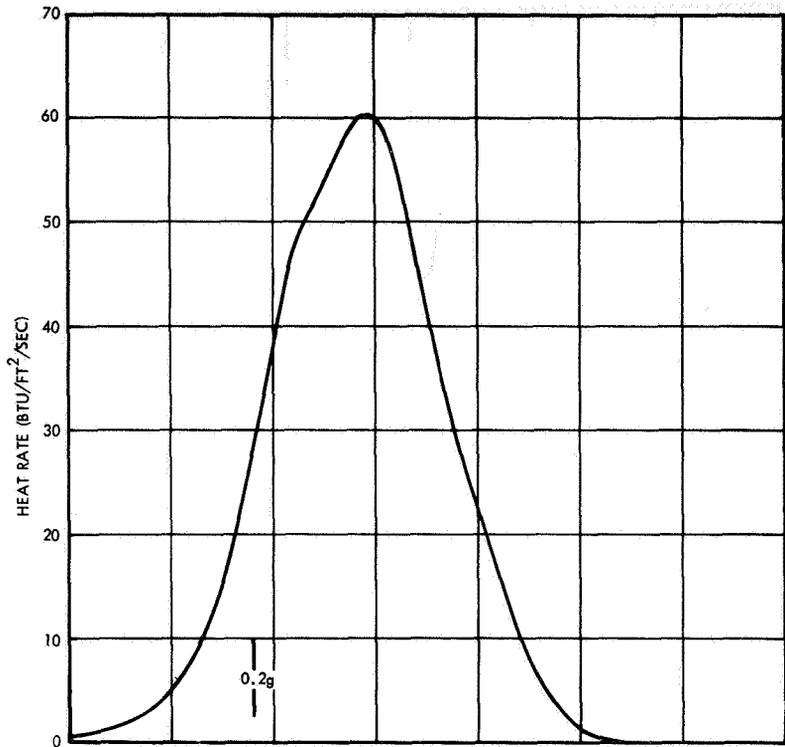


Figure 10. Aerodynamic heating rate and total heat time histories.

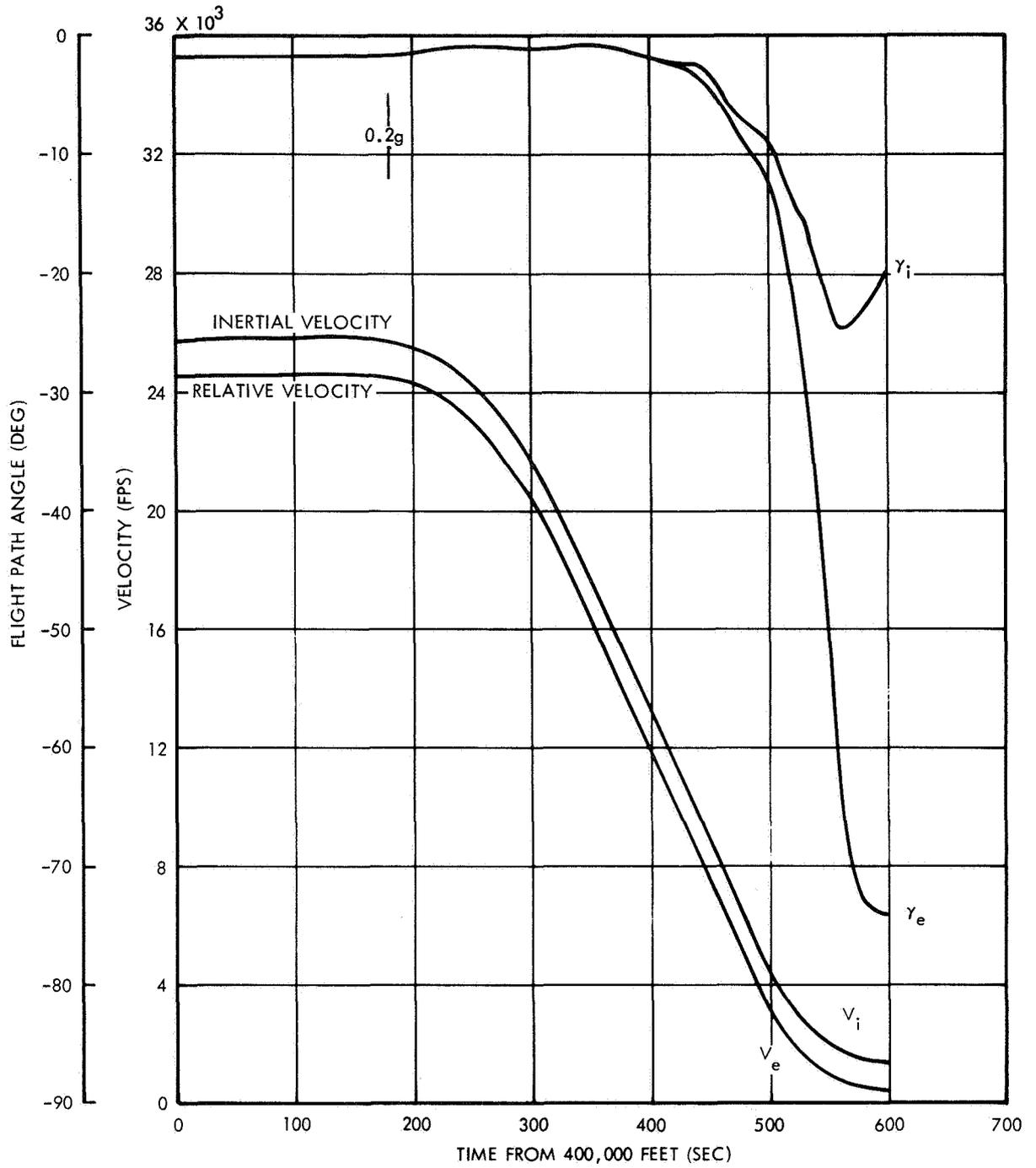


Figure 11. Reentry velocity and flight-path angle time histories.

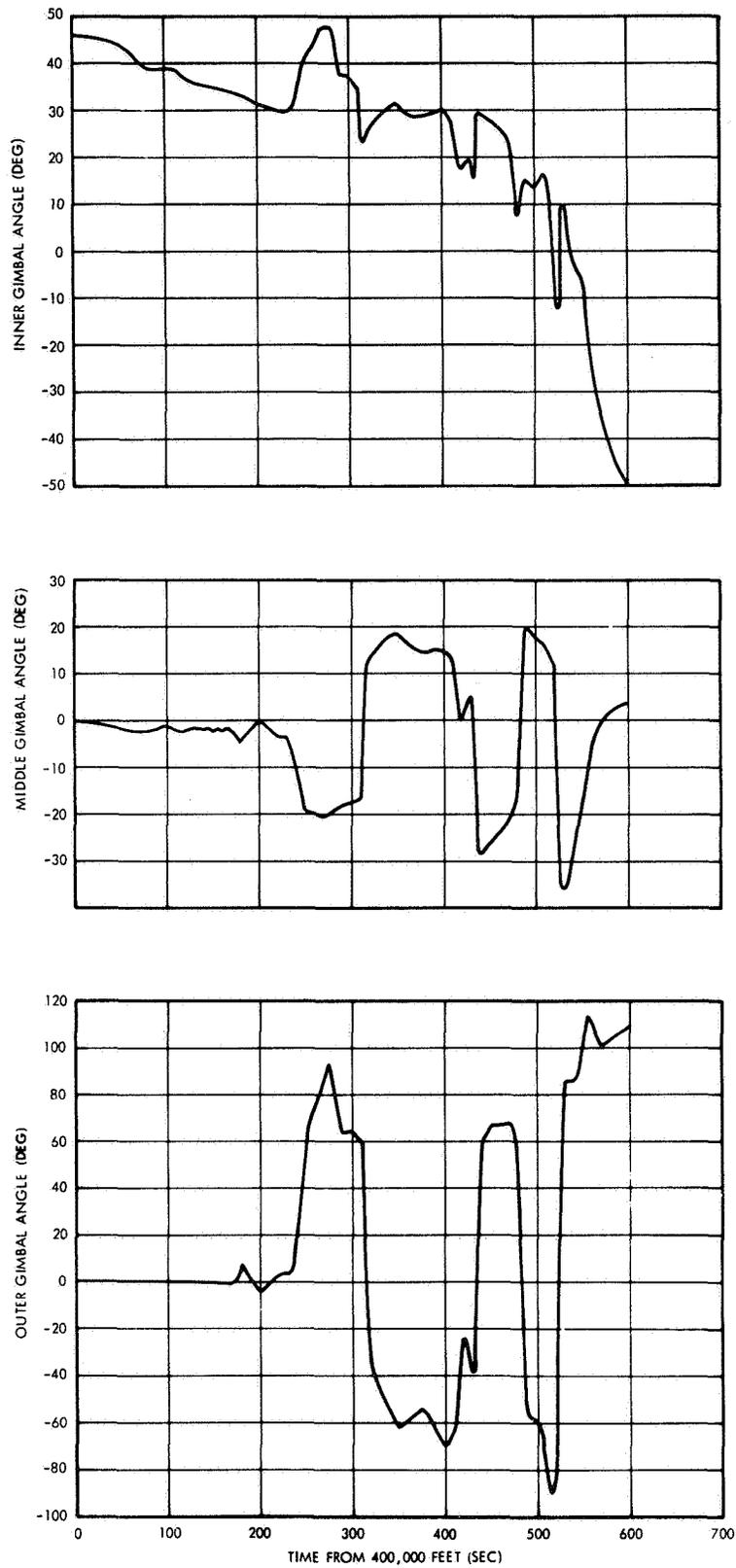


Figure 12. Reentry gimbal angle time histories.

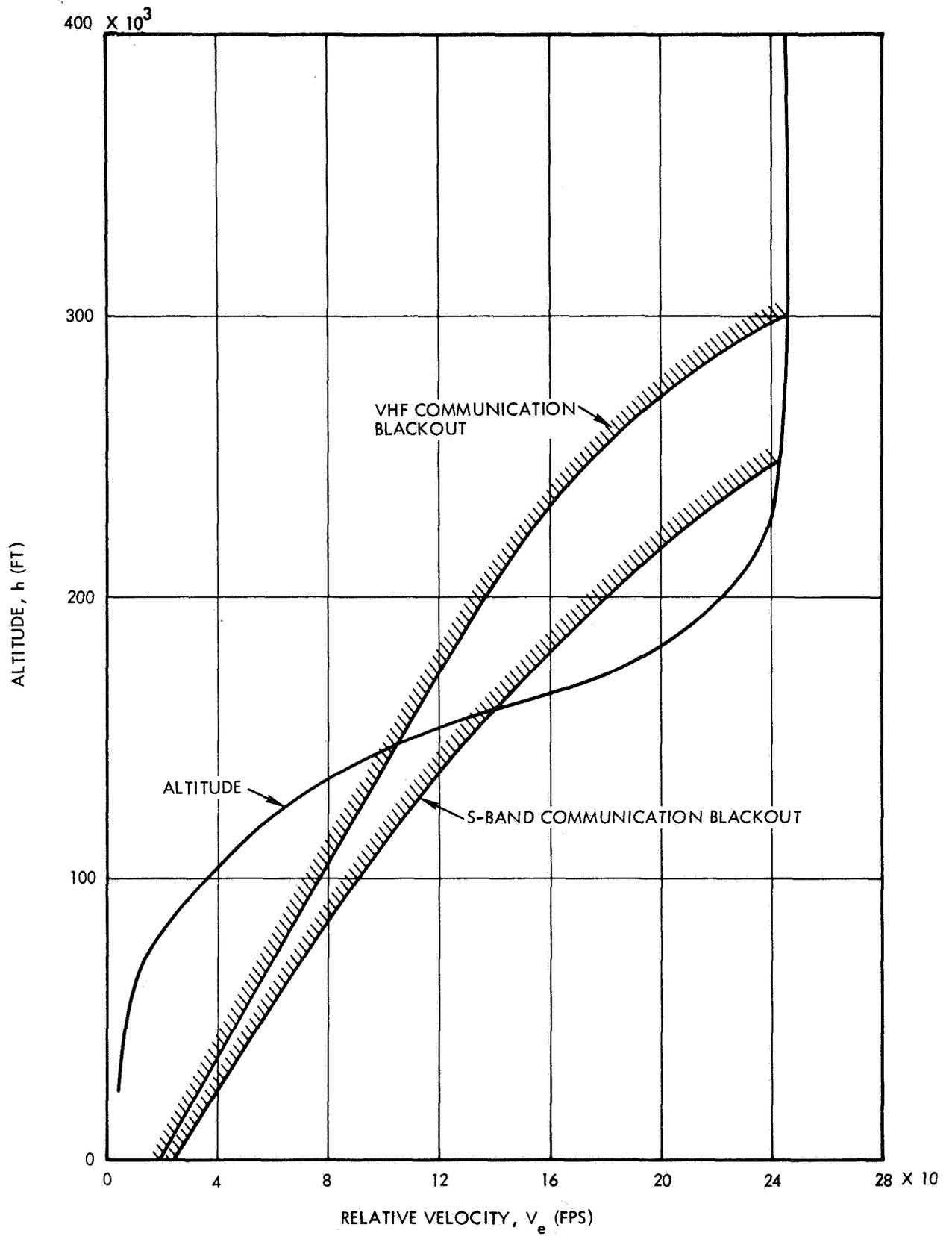


Figure 13. Communications blackout.

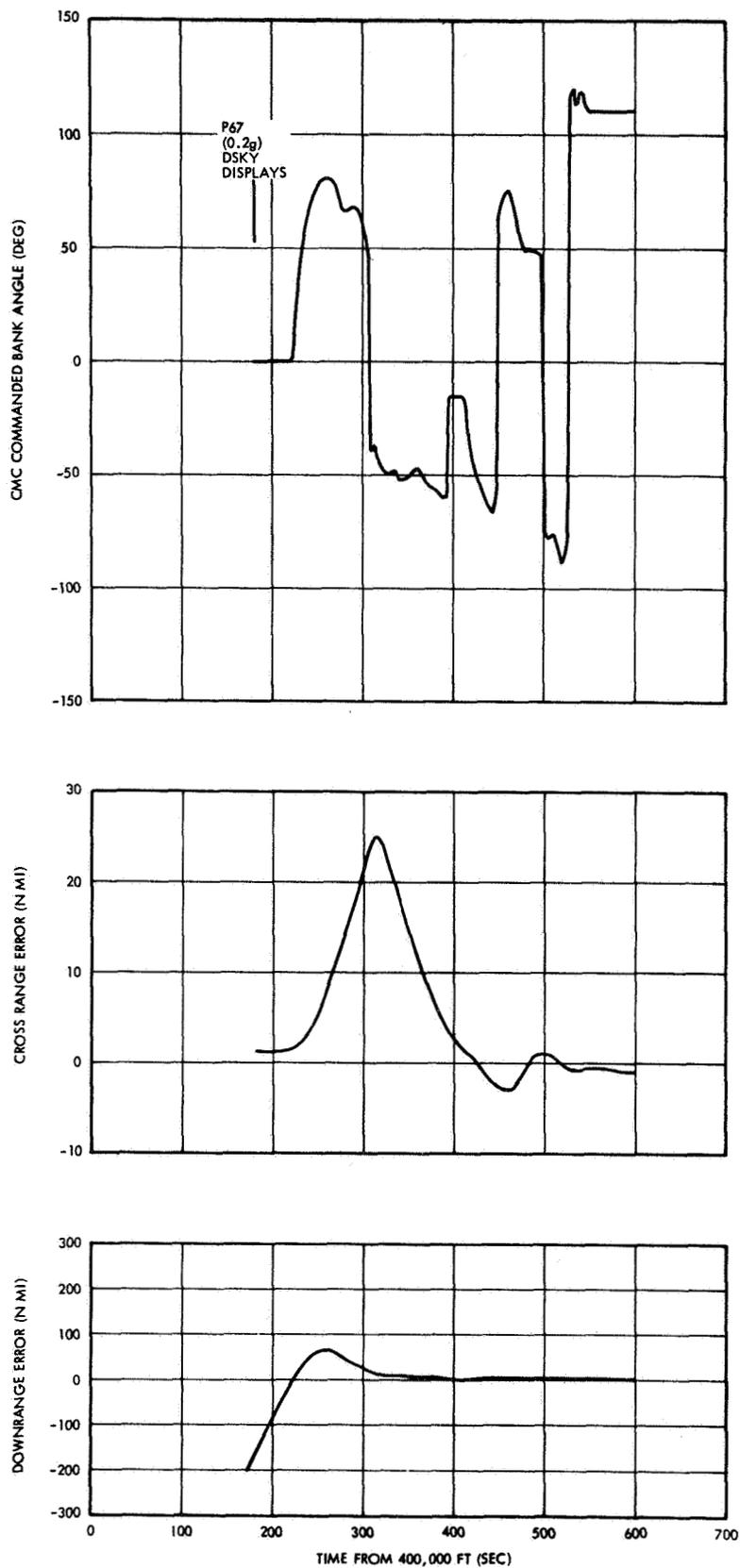


Figure 14. Program 67 DSKY-displayed CM C commanded bank angle, cross-range error, and down-range error time histories.

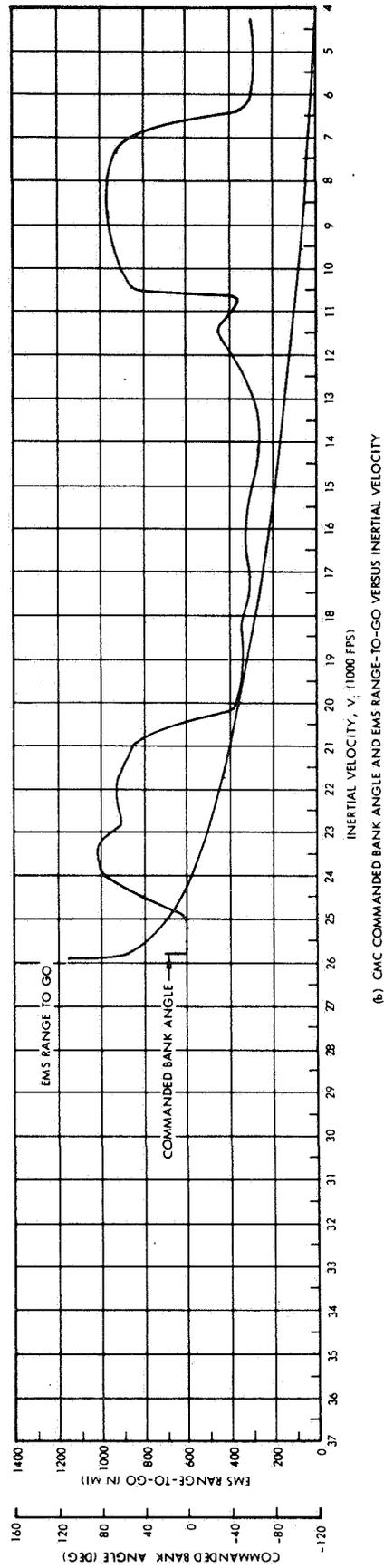
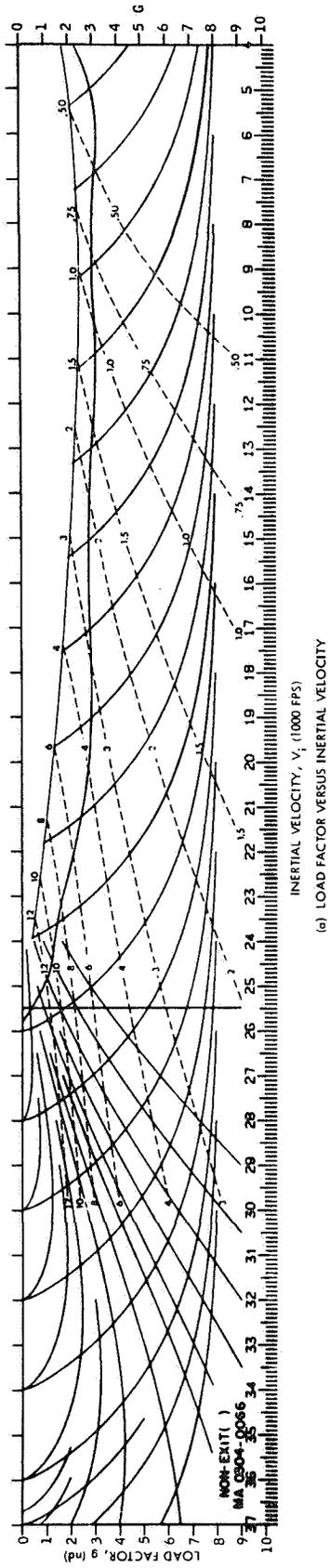


Figure 15. EMS parameters.

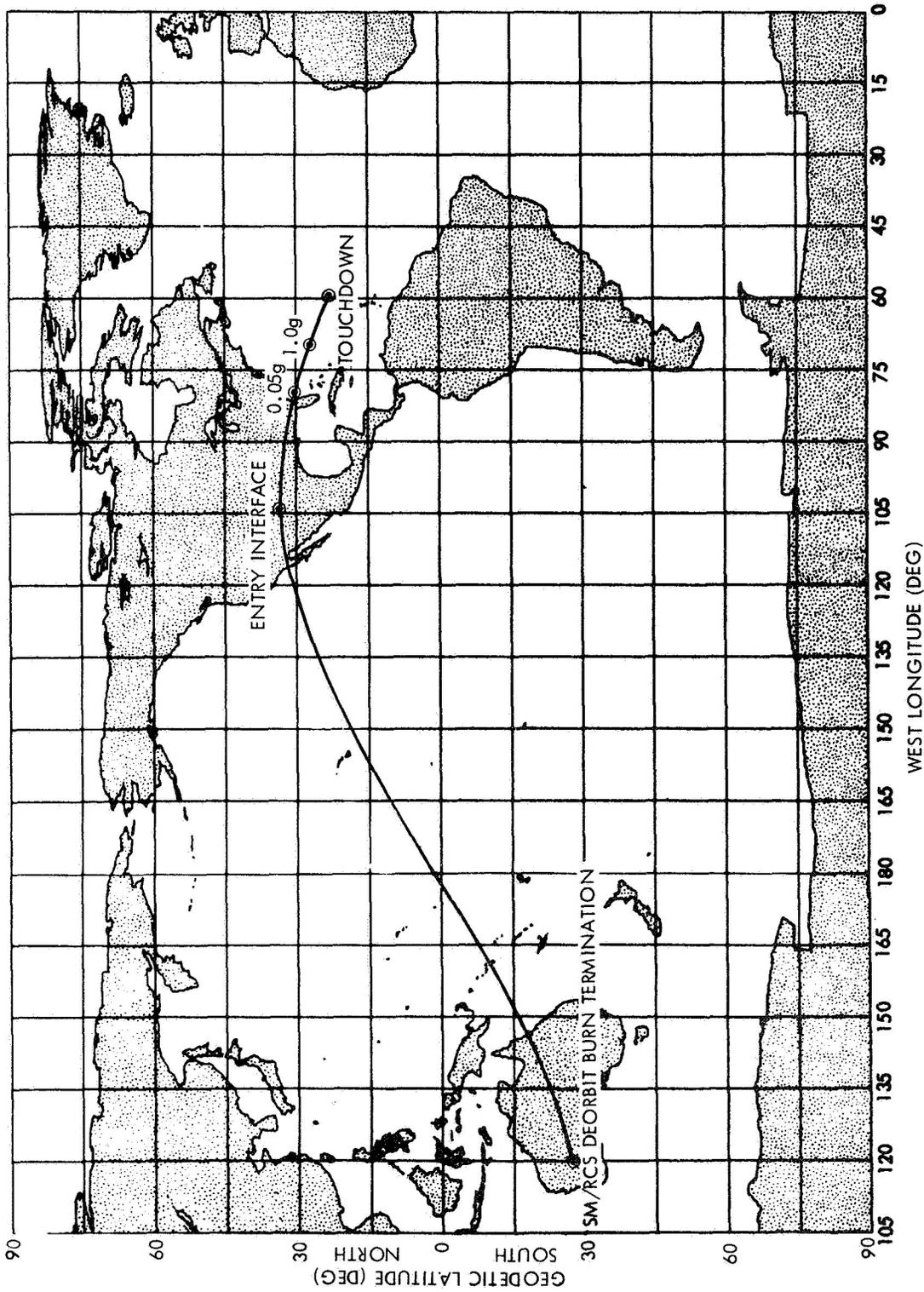


Figure 16. Entry ground track for SM/RCS deorbit maneuvers.

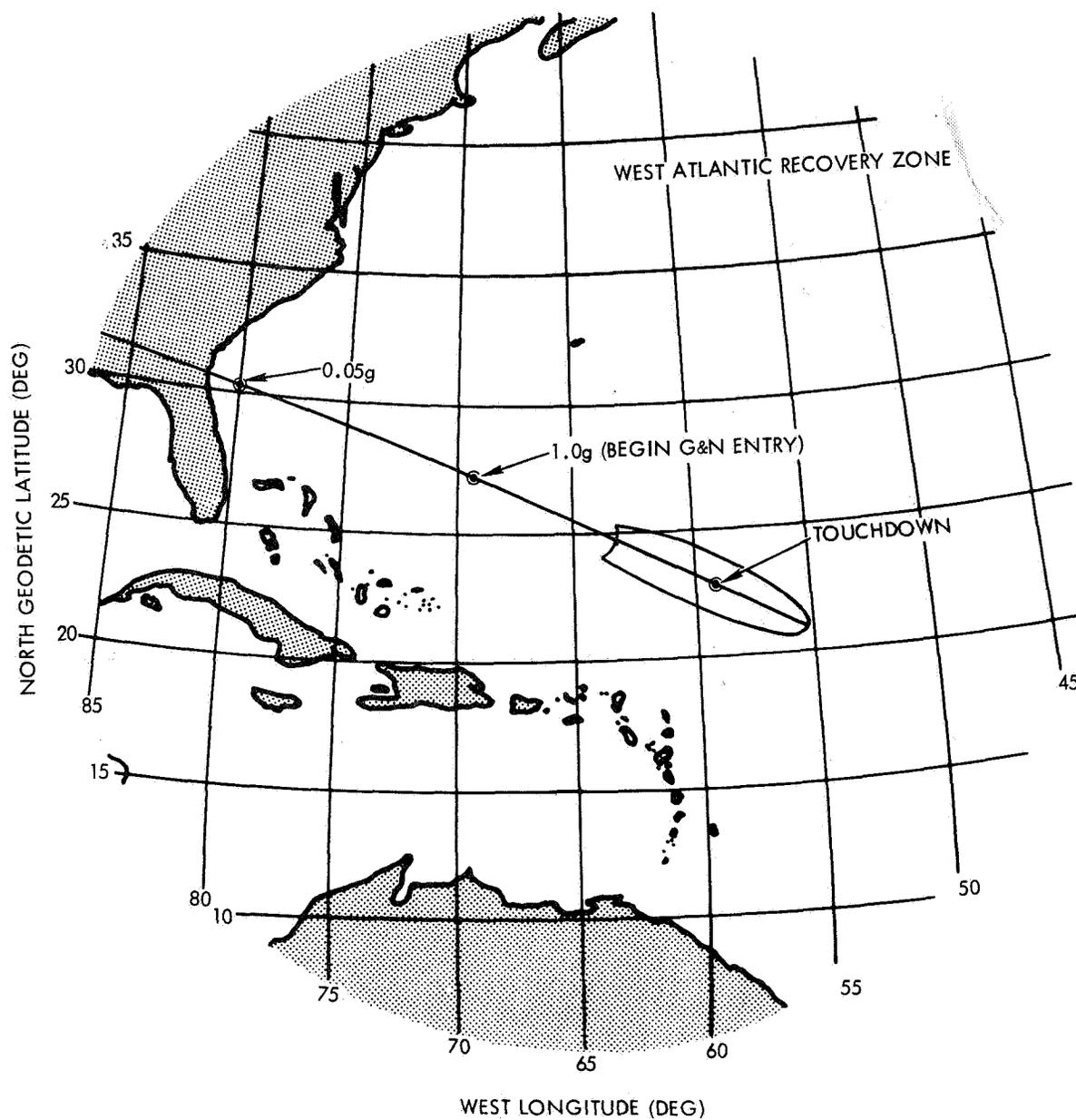


Figure 17. CM maneuver envelope from a SM/RCS deorbit.

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