

# Recover Mission Simulation Report

Route: KSZT KSAN | Distance: 934.4 NM | Bearing: 182.0

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## Tamarack

### Takeoff

Takeoff Start Weight (lb): 10319  
Takeoff End Weight (lb): 10308  
Takeoff Roll Dist (ft): 1092  
Dist to 35 ft (ft): 1324  
Segment 1 Gradient (%): 28.3  
Dist to 400 ft (ft): 8893  
Segment 2 Gradient (%): 27.4  
Dist to 1500 ft (ft): 10455  
Segment 3 Gradient (%): 27.27  
Fuel Remaining After Takeoff (lb): 3329  
Takeoff V-Speeds:  
Weight: 10308  
VR: 90.1  
V1: 94.4  
V2: 103.0  
V3: 111.6

### Climb

Climb Time (min): 36  
Climb Dist (NM): 158  
Climb Fuel (lb): 674  
Fuel Remaining After Climb (lb): 2676

### Cruise

Cruise Time (min): 108  
Cruise Dist (NM): 665  
Cruise Fuel (lb): 1016  
Cruise VKTAS (knots): 367  
Cruise Max Mach: 0.652  
Cruise - First Level-Off Alt (ft): 41004  
Fuel Remaining After Cruise (lb): 2323

### Descent

Descent Time (min): 23  
Descent Dist (NM): 113  
Descent Fuel (lb): 114  
Fuel Remaining After Descent (lb): 3227

### Landing

Landing Start Weight (lb): 8515  
Landing - Dist from 35 ft to Stop (ft): 0  
Landing - Ground Roll (ft): 609  
Fuel Remaining After Landing (lb): 1534  
Approach V-Speeds:  
Weight: 8514  
VAPP: 110.6  
VREF: 85.0

### Totals

Total Time (min): 168  
Total Dist (NM): 938  
Total Fuel Burned (lb): 1805  
Fuel Remaining (lb): 1534  
V1 Cut: False

## Flatwing

### Takeoff

Takeoff Start Weight (lb): 10240  
Takeoff End Weight (lb): 10229  
Takeoff Roll Dist (ft): 1178  
Dist to 35 ft (ft): 1420  
Segment 1 Gradient (%): 26.47  
Dist to 400 ft (ft): 9470  
Segment 2 Gradient (%): 25.58  
Dist to 1500 ft (ft): 11279  
Segment 3 Gradient (%): 25.64  
Fuel Remaining After Takeoff (lb): 3329  
Takeoff V-Speeds:  
Weight: 10229  
VR: 93.9  
V1: 98.4  
V2: 107.3  
V3: 116.3

### Climb

Climb Time (min): 33  
Climb Dist (NM): 152  
Climb Fuel (lb): 670  
Fuel Remaining After Climb (lb): 2680

### Cruise

Cruise Time (min): 108  
Cruise Dist (NM): 671  
Cruise Fuel (lb): 1277  
Cruise VKTAS (knots): 369  
Cruise Max Mach: 0.657  
Cruise - First Level-Off Alt (ft): 37001  
Fuel Remaining After Cruise (lb): 2062

### Descent

Descent Time (min): 21  
Descent Dist (NM): 100  
Descent Fuel (lb): 124  
Fuel Remaining After Descent (lb): 3217

### Landing

Landing Start Weight (lb): 8169  
Landing - Dist from 35 ft to Stop (ft): 0  
Landing - Ground Roll (ft): 637  
Fuel Remaining After Landing (lb): 1266  
Approach V-Speeds:  
Weight: 8167  
VAPP: 112.7  
VREF: 87.0

### Totals

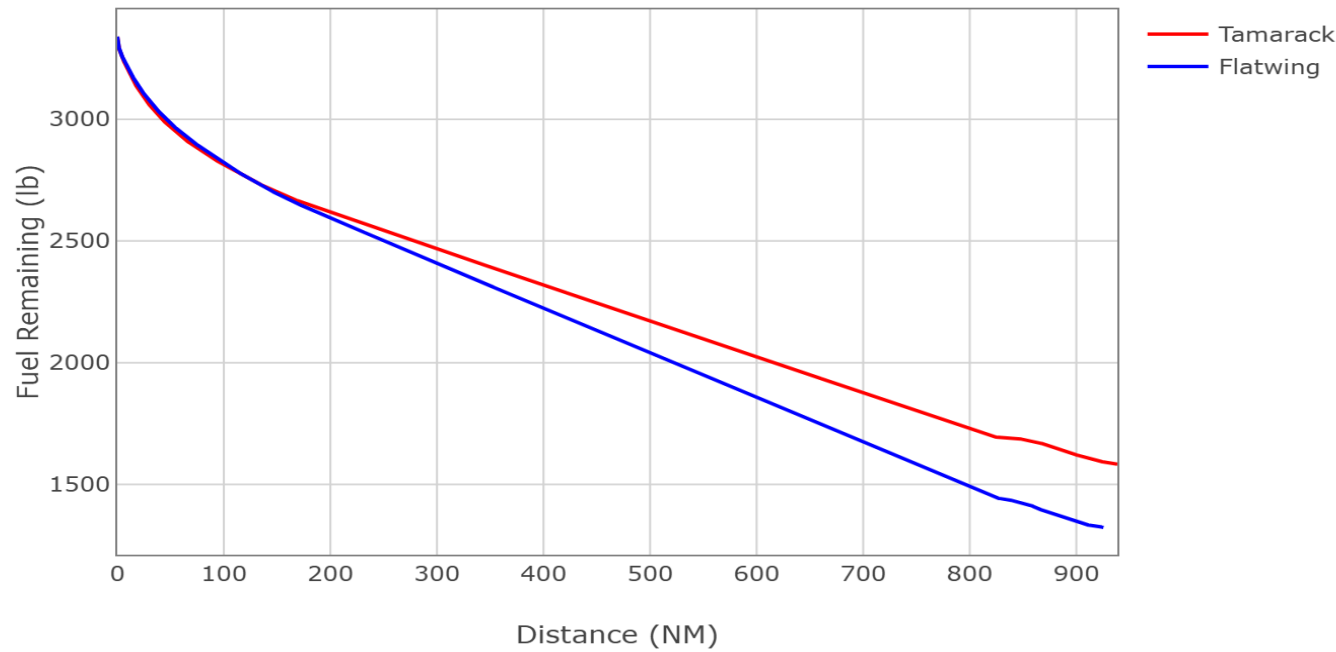
Total Time (min): 163  
Total Dist (NM): 925  
Total Fuel Burned (lb): 2073  
Fuel Remaining (lb): 1266  
V1 Cut: False

Hourly Fuel Burn (lb)

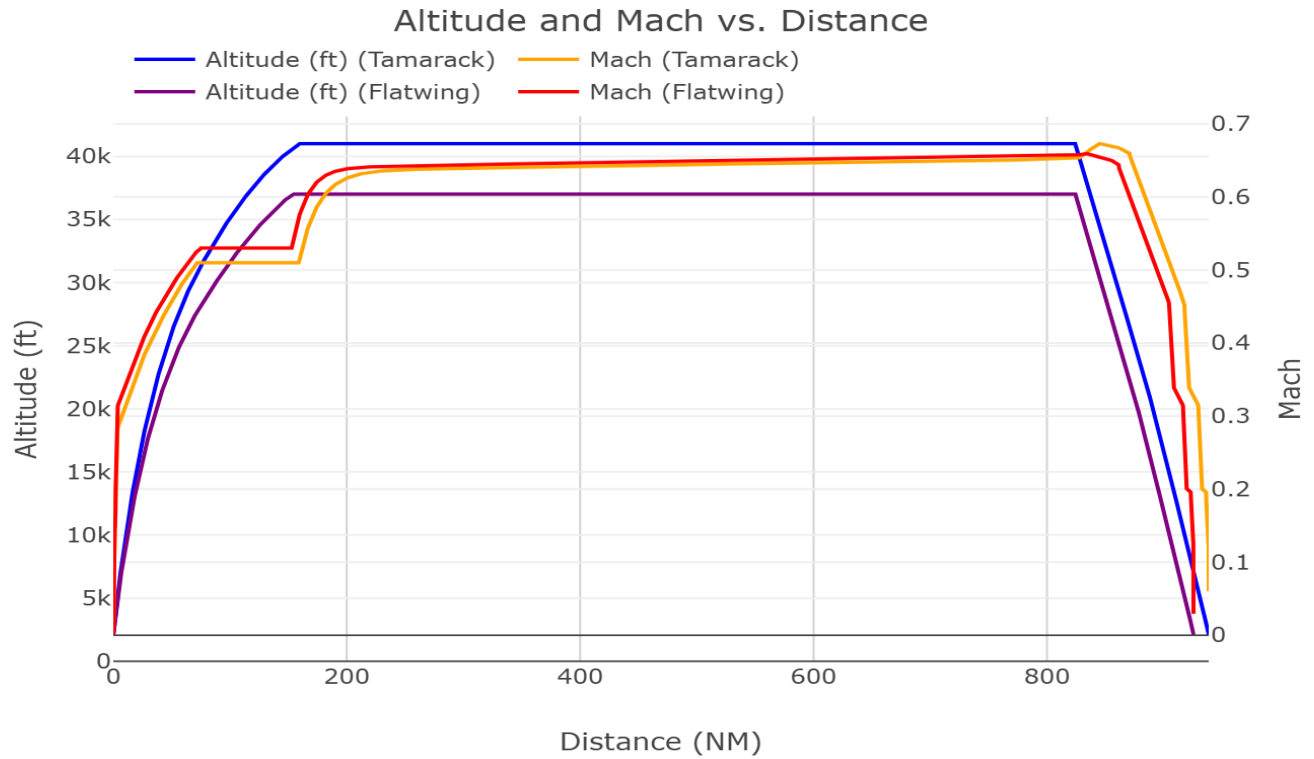
Hour	Tamarack (lb)	Flatwing (lb)
1	895	985
2	561	705
3	348	381

Fuel Remaining vs. Distance

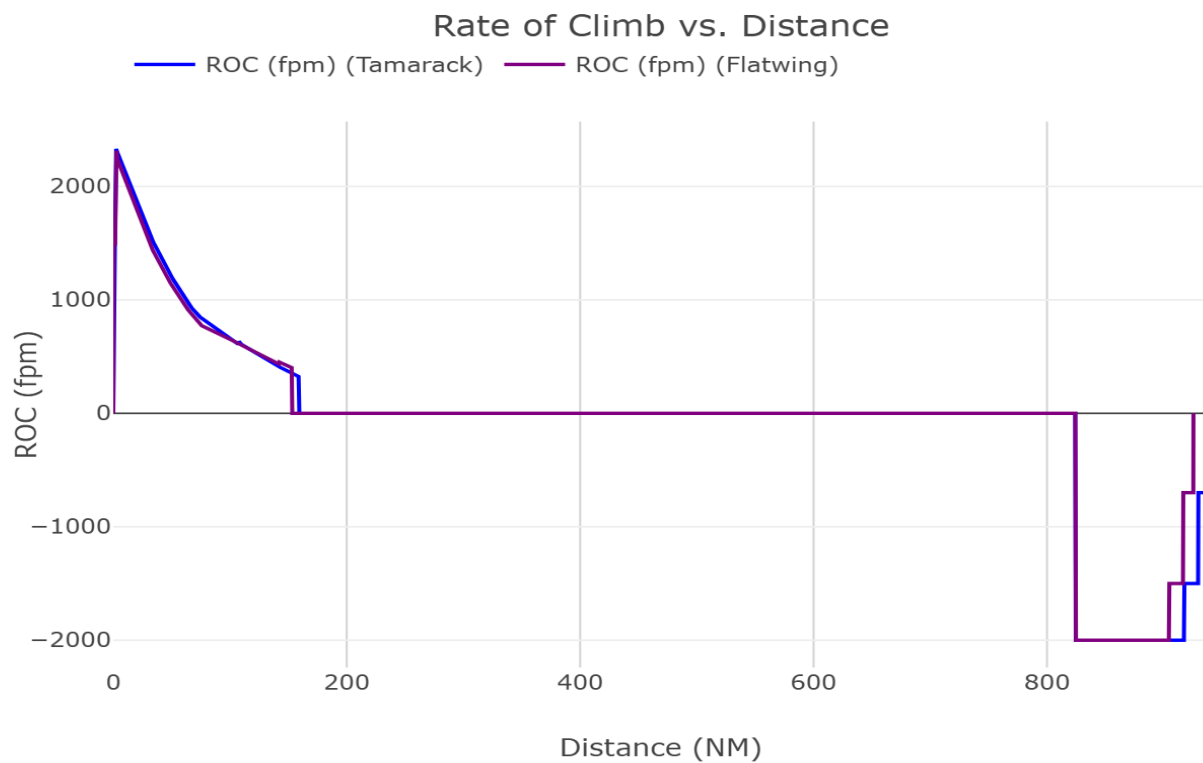
Fuel Remaining vs Distance - Comparison



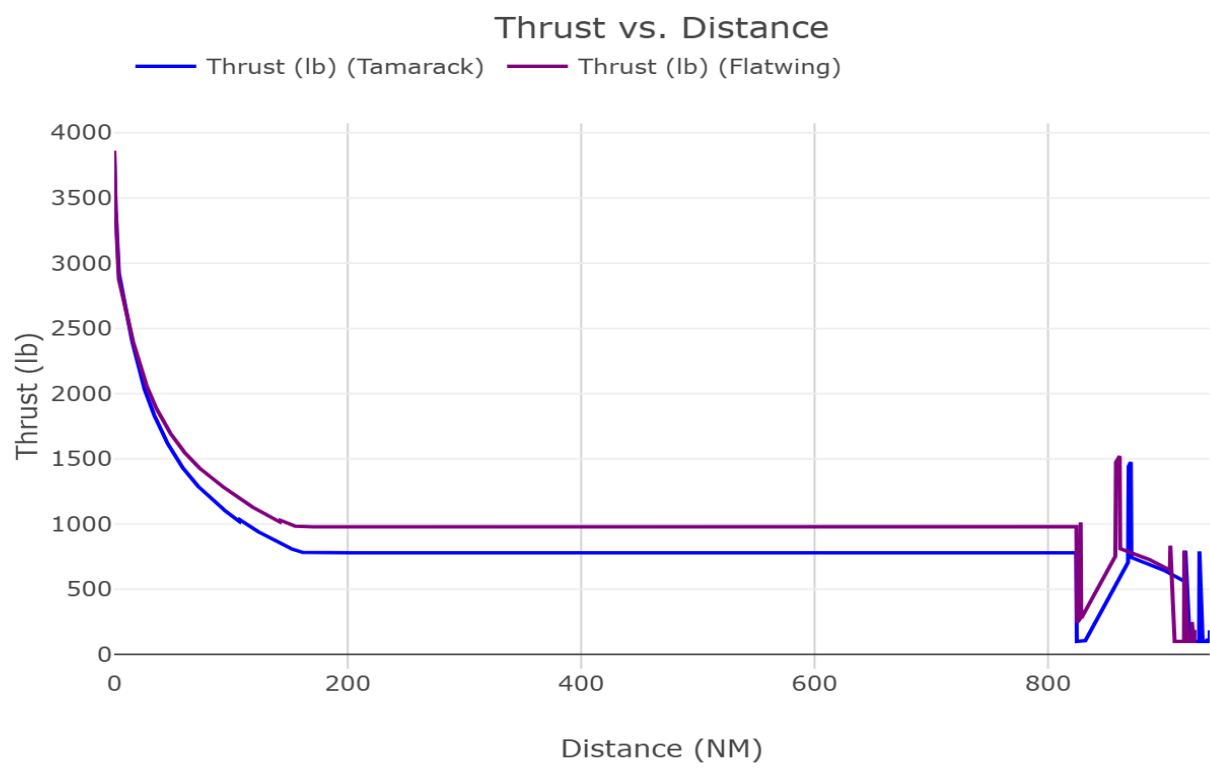
## Altitude and Mach vs. Distance



## Rate of Climb vs. Distance



Thrust vs. Distance



Drag vs. Distance

