

# Recover Mission Simulation Report

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

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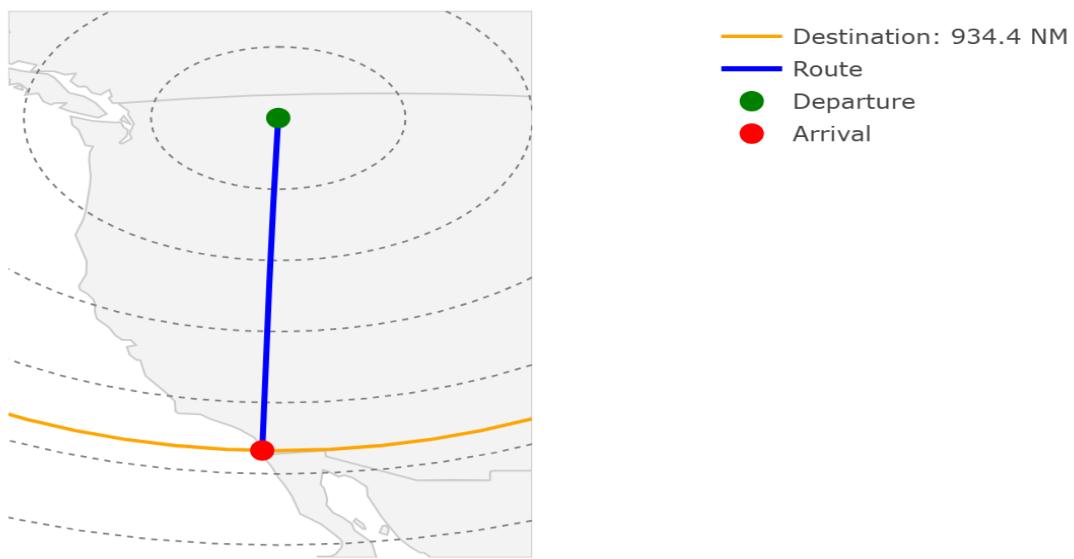
## Airports

Type	Airport	ICAO	PA (ft)	DA (ft)
Departure	Sandpoint Arpt	KSZT	2,131	2,131
Arrival	San Diego Intl Arpt	KSAN	17	17

Route Distance: 934.4 NM | Bearing: 182.0°

## Flight Route Map

Flight Route



## Weight Status

### Flatwing

Component	Weight (lb)	Max Weight (lb)
BOW	6,900	
Payload	0	1,500
Initial Fuel	3,440	3,440
Reserve Fuel	600	
Taxi Fuel	100	
Mission Fuel	2,740	
ZFW	6,900	8,400
Ramp Weight	10,340	10,700
Takeoff Weight	10,240	10,600

### Tamarack

Component	Weight (lb)	Max Weight (lb)
BOW	6,979	
Payload	0	1,821
Initial Fuel	3,440	3,440
Reserve Fuel	600	
Taxi Fuel	100	

<b>Component</b>	<b>Weight (lb)</b>	<b>Max Weight (lb)</b>
Mission Fuel	2,740	
ZFW	6,979	8,800
Ramp Weight	10,419	10,700
Takeoff Weight	10,319	10,600

## **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**

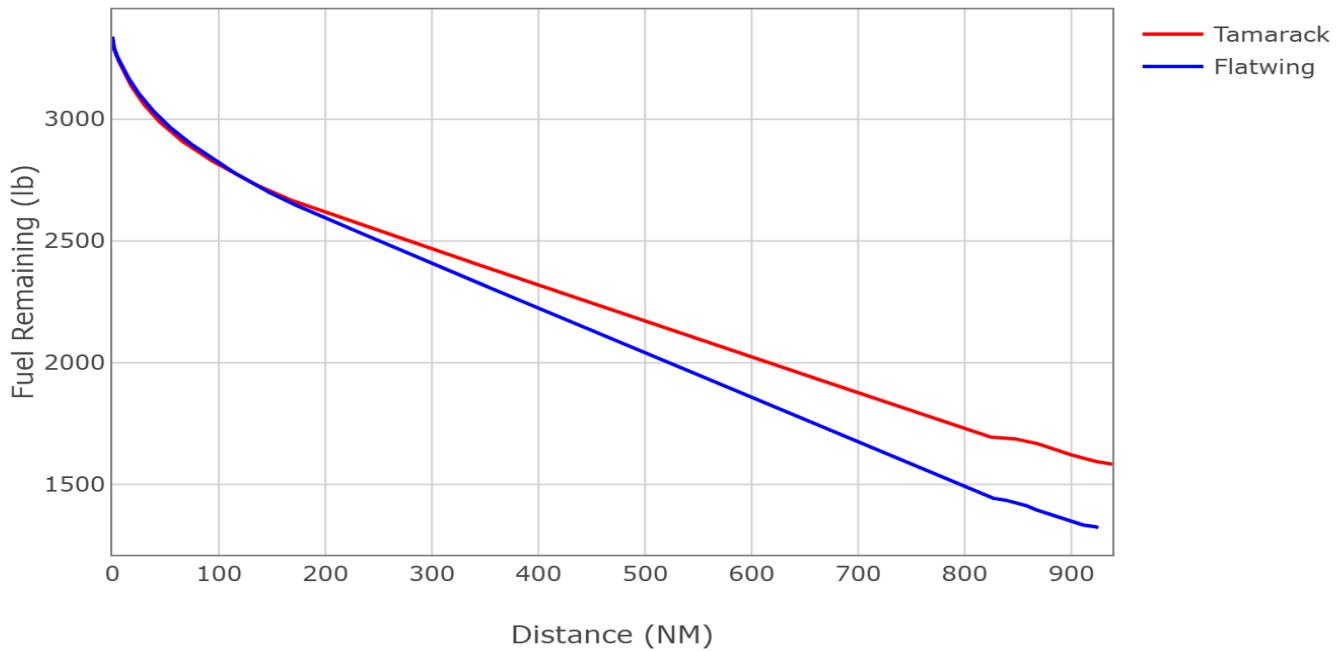
Total Time (min): 163  
Total Dist (NM): 925  
Total Fuel Burned (lb): 2073  
Fuel Remaining (lb): 1266  
V1 Cut: False

### **Hourly Fuel Burn (lb)**

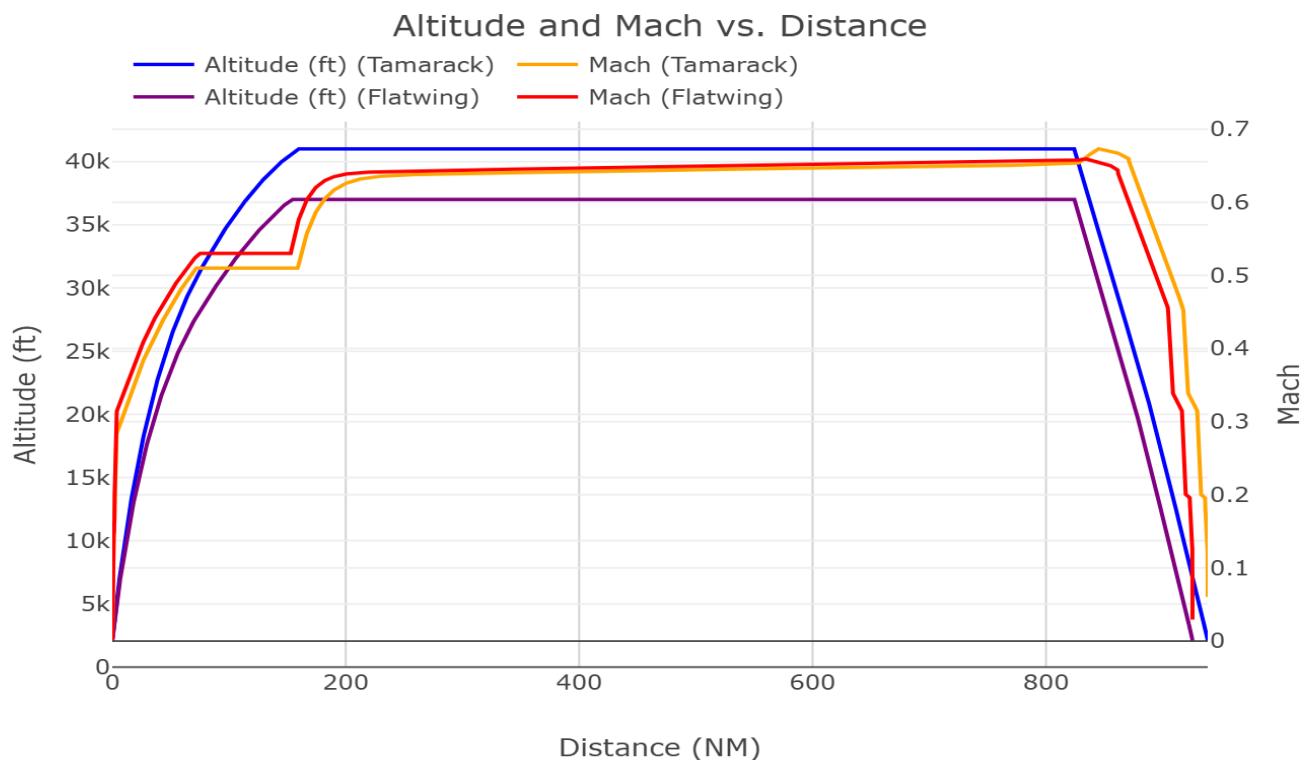
Hour	Tamarack (lb)	Flatwing (lb)
1	895	985
2	561	705
3	348	381

## Fuel Remaining vs. Distance

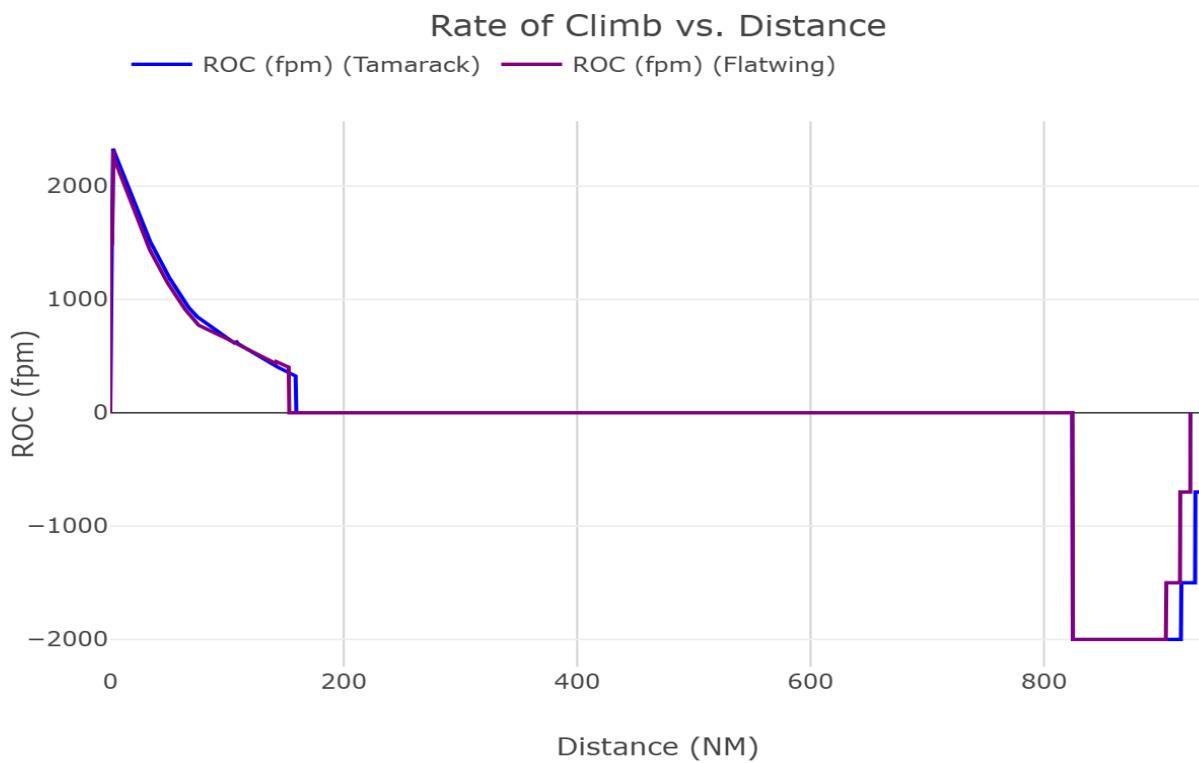
Fuel Remaining vs Distance - Comparison



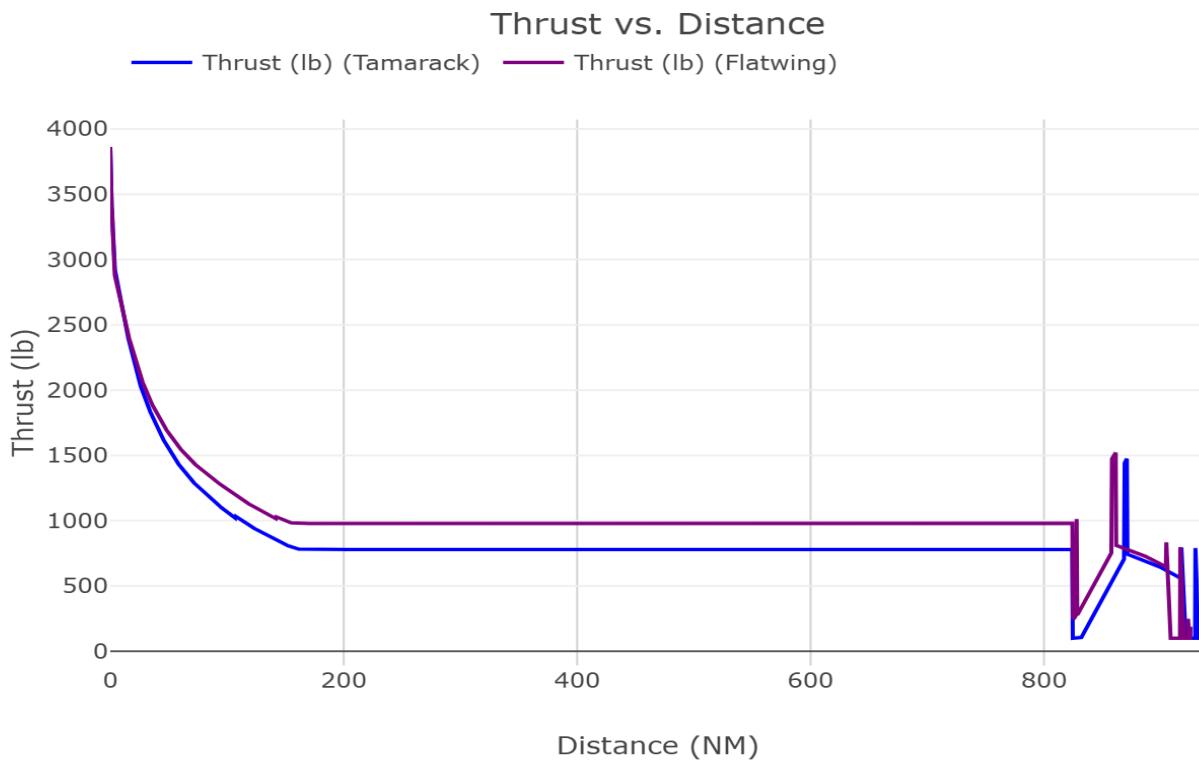
## Altitude and Mach vs. Distance



## Rate of Climb vs. Distance



## Thrust vs. Distance



## Drag vs. Distance

