

Recover Mission Simulation Report

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

Generated: 2025-12-03 15:38

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°

(Could not embed chart 'Flight Route Map': Error 525: unexpected error while fetching topojson file at <https://cdn.plot.ly/un/north-a>)

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 | |
| 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): 127
Cruise Dist (NM): 664
Cruise Fuel (lb): 1189
Cruise VKTAS (knots): 314
Cruise Max Mach: 0.533
Cruise - First Level-Off Alt (ft): 41004
Fuel Remaining After Cruise (lb): 2150

Descent

Descent Time (min): 23
Descent Dist (NM): 111
Descent Fuel (lb): 111
Fuel Remaining After Descent (lb): 3230

Landing

Landing Start Weight (lb): 8345
Landing - Dist from 35 ft to Stop (ft): 0
Landing - Ground Roll (ft): 597
Fuel Remaining After Landing (lb): 1364
Approach V-Speeds:
Weight: 8343
VAPP: 109.6
VREF: 84.1

Totals

Total Time (min): 186
Total Dist (NM): 936
Total Fuel Burned (lb): 1975
Fuel Remaining (lb): 1364
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): 155
Climb Dist (NM): 795
Climb Fuel (lb): 1997
Fuel Remaining After Climb (lb): 2680

Cruise

Cruise Time (min): 5
Cruise Dist (NM): 28
Cruise Fuel (lb): 48
Cruise VKTAS (knots): 317
Cruise Max Mach: 0.572
Cruise - First Level-Off Alt (ft): 37001
Fuel Remaining After Cruise (lb): 1964

Descent

Descent Time (min): 23
Descent Dist (NM): 111
Descent Fuel (lb): 123
Fuel Remaining After Descent (lb): 3218

Landing

Landing Start Weight (lb): 8071
Landing - Dist from 35 ft to Stop (ft): 0
Landing - Ground Roll (ft): 629
Fuel Remaining After Landing (lb): 1169
Approach V-Speeds:
Weight: 8069
VAPP: 112.2
VREF: 86.5

Totals

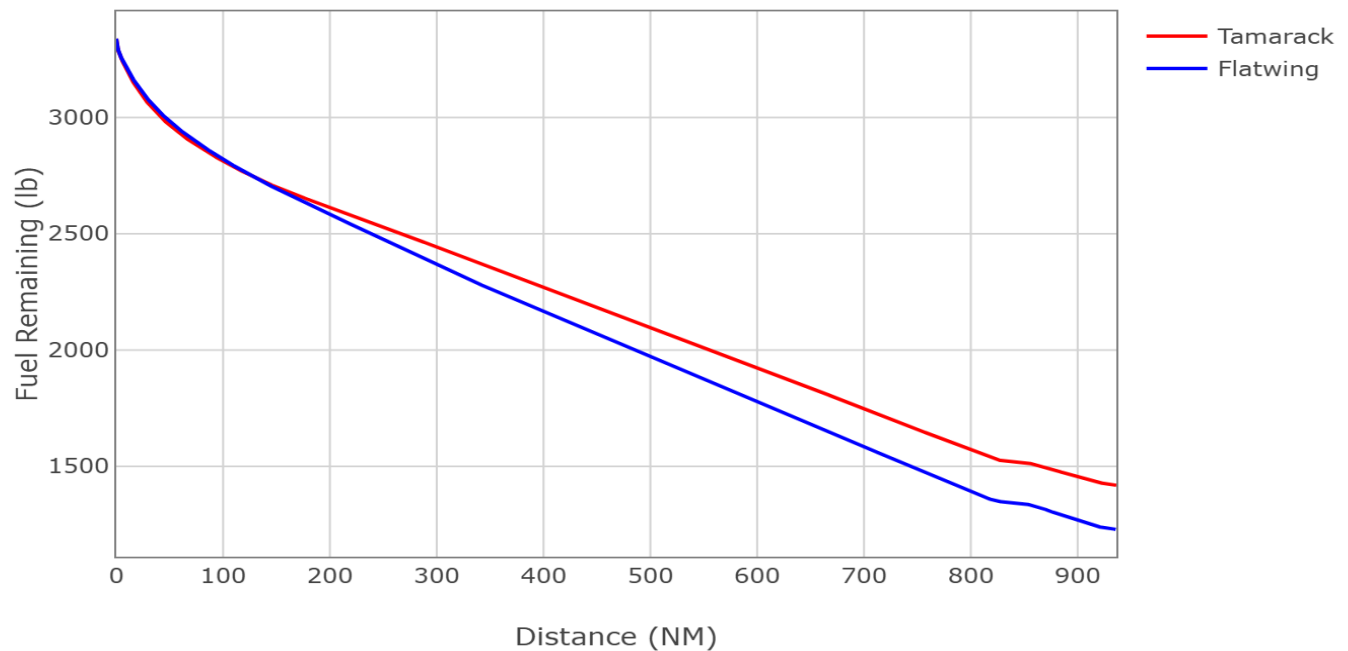
Total Time (min): 183
Total Dist (NM): 935
Total Fuel Burned (lb): 2170
Fuel Remaining (lb): 1169
V1 Cut: False

Hourly Fuel Burn (lb)

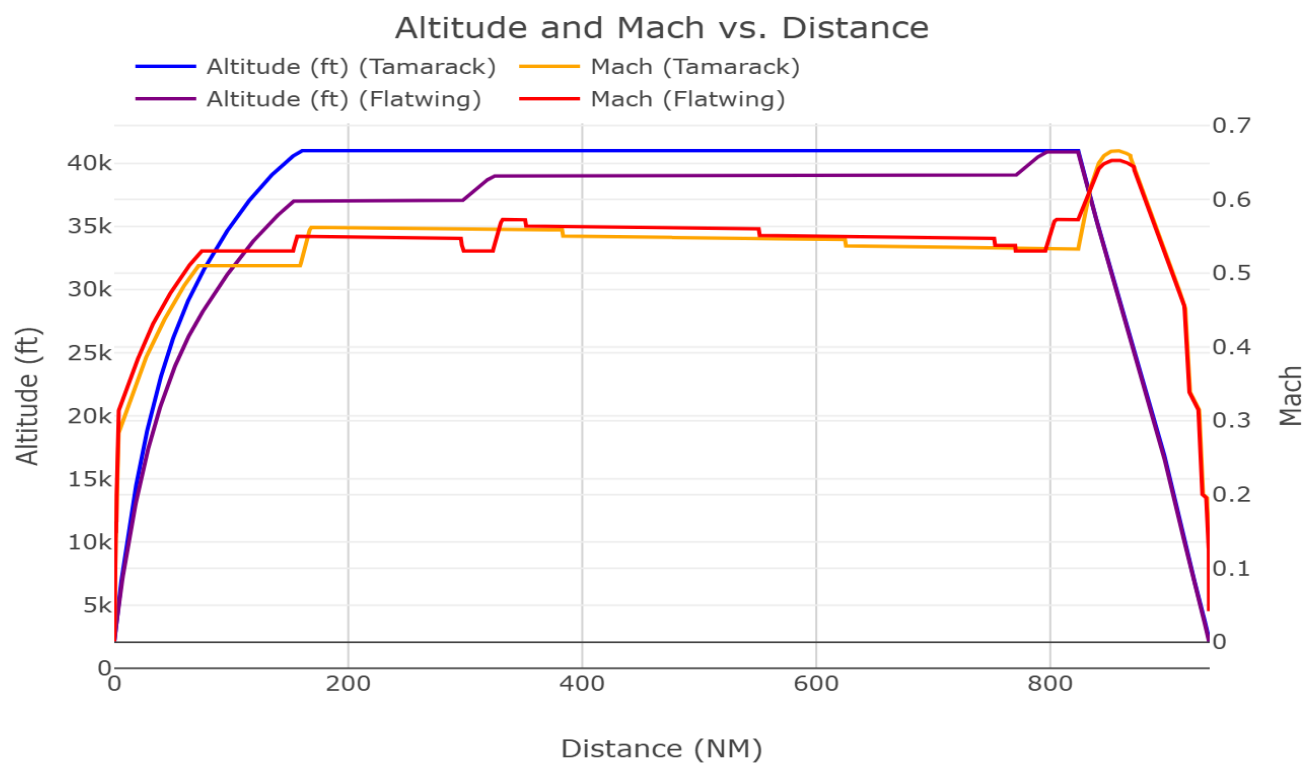
| Hour | Tamarack (lb) | Flatwing (lb) |
|------|---------------|---------------|
| 1 | 896 | 986 |
| 2 | 561 | 640 |
| 3 | 507 | 538 |
| 4 | 10 | 4 |

Fuel Remaining vs. Distance

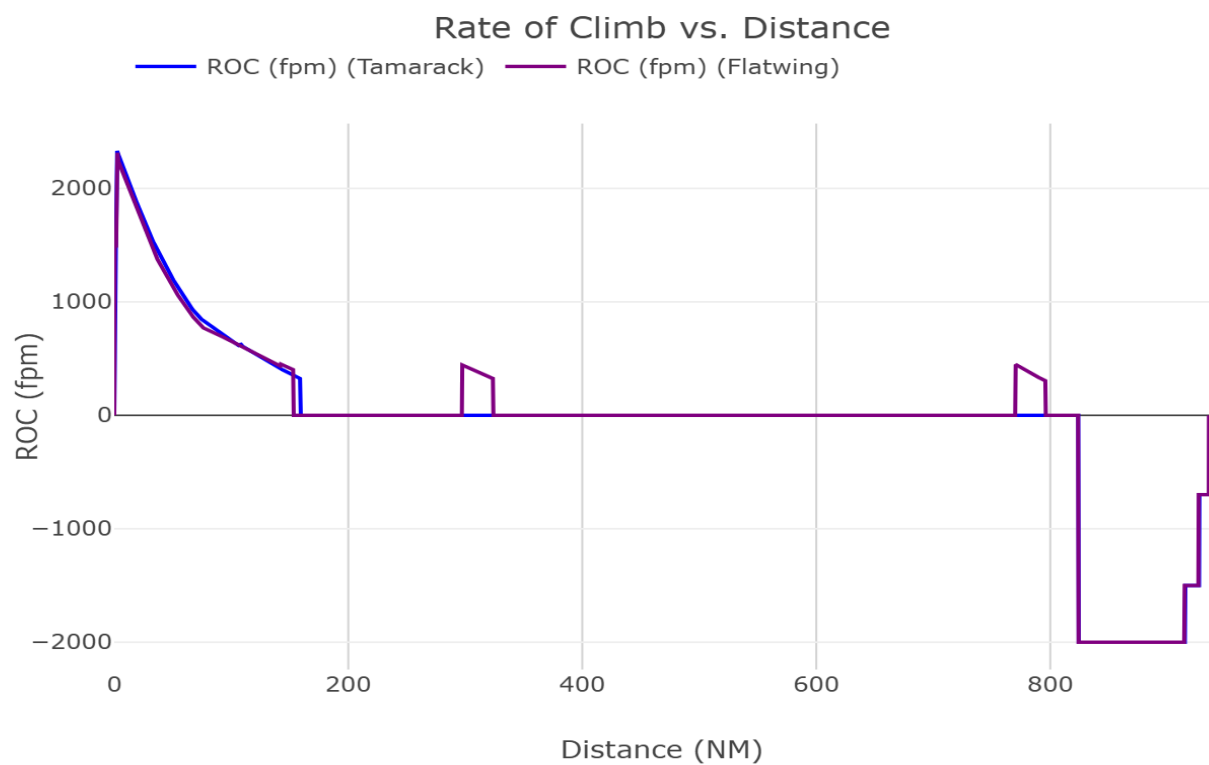
Fuel Remaining vs Distance - Comparison



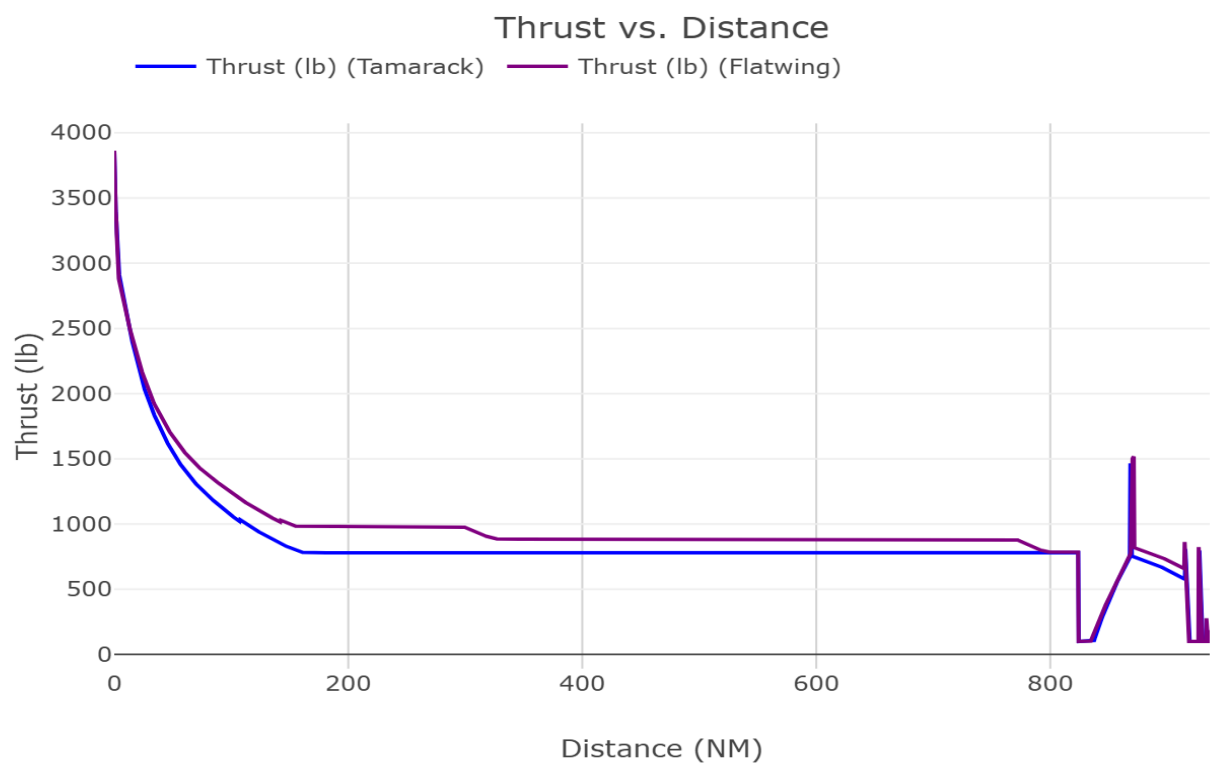
Altitude and Mach vs. Distance



Rate of Climb vs. Distance



Thrust vs. Distance



Drag vs. Distance

