

QUARTER Pro - Version 3.2

Racing Systems Analysis - www.QUARTERjr.com

File: funnycar.dat

Note: test case for QUARTER Pro version 3.2

General Data

Elevation - feet 300
 Barometer - in Hg 29.92
 Temperature - deg F 76
 Relative Humidity - % 50
 Wind Velocity - MPH 0.0
 Wind Angle - degs 0

 Track Temp - deg F 112
 Traction Index 1

Vehicle Data

Weight - lbs 2350
 Wheelbase - inches 125
 Rollout - inches 12
 Overhang - inches 40

Engine Dyno Data

| RPM | HP | Torque |
|------|------|--------|
| 6400 | 6116 | 5019 |
| 6600 | 6276 | 4994 |
| 6800 | 6306 | 4871 |
| 7000 | 6139 | 4606 |
| 7200 | 5829 | 4252 |
| 7400 | 5344 | 3793 |
| 7600 | 4732 | 3270 |
| 7800 | 3993 | 2689 |
| 9000 | 1297 | 757 |
| 9250 | 1269 | 721 |
| 9500 | 1222 | 676 |

Fuel System:
 Supercharged Nitro
 HP/Torque Multiplier 1.000

Transmission Data

Clutch:
 Launch@ RPM 6400
 Slip RPM 6800
 Clutch Slippage 1.000
 Lock-up option? No

| Gear | Ratio | Eff | Shift@ |
|-------|-------|-------|--------|
| 2nd - | 1.00 | 1.000 | 100 |

Final Drive Data

Gear Ratio 3.20
 Efficiency 0.960
 Tire Rollout - inches 118.0
 Tire Width - inches 18.00

Aerodynamic Data

Frontal Area - sq ft 24.1
 Drag Coefficient 0.500
 Lift Coefficient 0.800

Polar Moments of Inertia

Engine + Flywheel + Clutch 6.03
 Transmission + Driveshaft 0.107
 Tires + Wheels + Ring Gear 75.4

1.054

| Time | Distance | MPH | Acceleration | Gear | RPM |
|------------|----------|-------|--------------|------|-------|
| 0.00 | 0 | 0.0 | 3.03 | 1 | 6,400 |
| 0.140/0.00 | Rollout | 10.0 | 3.30 | 1 | 6,800 |
| 0.25 | 12 | 28.8 | 3.38 | 1 | 6,800 |
| 0.50 | 26 | 47.4 | 3.37 | 1 | 6,800 |
| 0.56 | 30 | 51.6 | 3.37 | 1 | 6,800 |
| 0.67 | 39 | 60.0 | 3.35 | 1 | 6,800 |
| 0.75 | 47 | 65.9 | 3.35 | 1 | 6,800 |
| 0.88 | 60 | 75.3 | 3.33 | 1 | 6,800 |
| 1.00 | 74 | 84.2 | 3.33 | 1 | 6,800 |
| 1.22 | 104 | 100.0 | 3.30 | 1 | 6,800 |
| 1.25 | 108 | 102.4 | 3.30 | 1 | 6,800 |
| 1.50 | 149 | 120.5 | 3.29 | 1 | 6,800 |
| 1.75 | 197 | 138.4 | 3.26 | 1 | 6,800 |
| 2.00 | 251 | 156.3 | 3.24 | 1 | 6,800 |
| 2.25 | 311 | 174.1 | 3.25 | 1 | 6,800 |
| 2.32 | 330 | 179.3 | 3.25 | 1 | 6,800 |
| 2.50 | 378 | 192.0 | 3.26 | 1 | 6,800 |
| 2.75 | 452 | 209.6 | 3.13 | 1 | 6,800 |
| 3.00 | 532 | 226.3 | 2.98 | 1 | 6,800 |
| 3.25 | 618 | 242.2 | 2.75 | 1 | 6,920 |
| 3.37 | 660 | 248.9 | 2.53 | 1 | 7,040 |
| 3.50 | 710 | 255.9 | 2.28 | 1 | 7,170 |
| 3.75 | 805 | 267.0 | 1.86 | 1 | 7,340 |
| 4.00 | 905 | 276.1 | 1.51 | 1 | 7,450 |
| 4.23 | 1000 | 283.0 | 1.21 | 1 | 7,540 |
| 4.25 | 1008 | 283.5 | 1.23 | 1 | 7,550 |
| 4.50 | 1113 | 289.5 | 0.98 | 1 | 7,630 |
| 4.75 | 1220 | 294.5 | 0.85 | 1 | 7,700 |
| 4.98 | 1320 | 298.2 | 0.64 | 1 | 7,760 |

1/8 Mile: 3.37 sec @ 243.5 MPH 1/4 Mile: 4.98 sec @ 297.0 MPH