

QUARTER jr - Version 3.2

Racing Systems Analysis - www.QUARTERjr.com

File: prostock.dat
 Note: test case for QUARTER jr

| General | | Clutch | | Vehicle | |
|----------------------------------|-------|--------------------------|------|-----------------------|-------|
| Elevation - feet | 400 | Slip RPM | 7400 | Weight - lbs | 2355 |
| Barometer - in Hg | 29.92 | Lock-up option? | No | Rollout - inches | 12 |
| Temperature - deg F | 70 | | | Wheelbase - inches | 105 |
| Relative Humidity - % | 30 | | | Body Style: fastback | |
| | | Transmission Gear Ratios | | Frontal Area - sq ft | 18.2 |
| | | 2nd - | 2.60 | | |
| | | 3rd - | 1.90 | | |
| | | 4th - | 1.50 | | |
| | | 5th - | 1.20 | | |
| | | 6th - | 1.00 | | |
| Engine | | | | Final Drive | |
| Fuel System: Gasoline Carburetor | | | | Gear Ratio | 4.86 |
| Displacement - CID | 500 | | | Tire Rollout - inches | 102.5 |
| RPM@ Peak HP | 8900 | | | Tire Width - inches | 17.30 |
| Peak HP | 1300 | | | Traction Index | 2 |
| Shift@ RPM | 9300 | | | | |

Frontal Area Worksheet

Maximum Width - inches 66.0
 Maximum Height - inches 44.0
 Shape Factor - % 90.0

 Frontal Area - sq ft = 18.2

Tire Width Worksheet

Tread Width - inches 17.30
 Number of Grooves 0
 Each Groove Width - inches 0.000

 Effective Tire Width = 17.30

1.042

| Time | Distance | MPH | Acceleration | Gear | RPM |
|------------|----------|-------|--------------|------|-------|
| 0.00 | 0 | 0.0 | 2.54 | 1 | 7,400 |
| 0.142/0.00 | Rollout | 9.2 | 2.75 (s) | 1 | 7,400 |
| 0.50 | 22 | 39.5 | 2.73 | 1 | 7,400 |
| 0.63 | 30 | 47.1 | 2.71 | 1 | 7,400 |
| 0.87 | 49 | 60.0 | 2.06 | 1 | 8,540 |
| 0.99 | 60 | 65.1 | 1.84 | 1 | 9,200 |
| 1.00 | 61 | 65.6 | 1.86 | 1 | 9,230 |
| 1.01 | 62 | 66.1 | 1.81 | 1 | 9,310 |
| 1.21 | 83 | 76.2 | 2.16 | 2 | 7,830 |
| 1.50 | 118 | 87.3 | 1.58 | 2 | 8,770 |
| 1.69 | 143 | 93.4 | 1.38 | 2 | 9,310 |
| 1.89 | 171 | 100.9 | 1.64 | 3 | 7,920 |
| 2.00 | 188 | 104.5 | 1.44 | 3 | 8,170 |
| 2.50 | 270 | 118.8 | 1.25 | 3 | 9,120 |
| 2.61 | 290 | 121.8 | 1.15 | 3 | 9,300 |
| 2.81 | 326 | 127.4 | 1.25 | 4 | 7,770 |
| 2.83 | 330 | 127.9 | 1.18 | 4 | 7,790 |
| 3.00 | 362 | 132.0 | 1.12 | 4 | 7,970 |
| 3.50 | 463 | 143.5 | 1.04 | 4 | 8,570 |
| 4.00 | 573 | 154.2 | 0.93 | 4 | 9,090 |
| 4.22 | 624 | 158.6 | 0.85 | 4 | 9,310 |
| 4.38 | 660 | 161.7 | 0.91 | 5 | 8,170 |
| 4.42 | 671 | 162.6 | 0.92 | 5 | 7,940 |
| 4.50 | 689 | 164.0 | 0.86 | 5 | 7,980 |
| 5.00 | 813 | 172.9 | 0.79 | 5 | 8,360 |
| 5.50 | 943 | 181.3 | 0.75 | 5 | 8,700 |
| 5.71 | 1000 | 184.7 | 0.70 | 5 | 8,850 |
| 6.00 | 1079 | 189.1 | 0.68 | 5 | 9,030 |
| 6.50 | 1221 | 196.3 | 0.62 | 5 | 9,310 |
| 6.84 | 1320 | 200.8 | 0.57 | 5 | 9,480 |

1/8 Mile: 4.38 sec @ 159.1 MPH 1/4 Mile: 6.84 sec @ 199.4 MPH