

QUARTER Pro - Version 3.2

Racing Systems Analysis - www.QUARTERjr.com

File: tadrag.dat

Note: test case for QUARTER Pro version 3.2

General Data

Elevation - feet 0
 Barometer - in Hg 29.92
 Temperature - deg F 77
 Relative Humidity - % 45
 Wind Velocity - MPH 0.0
 Wind Angle - degs 0

 Track Temp - deg F 110
 Traction Index 2

Vehicle Data

Weight - lbs 1980
 Wheelbase - inches 280
 Rollout - inches 12
 Overhang - inches 30

Engine Dyno Data

RPM	HP	Torque
6000	1847	1617
6500	2058	1663
7000	2256	1693
7500	2458	1721
8000	2639	1733
8500	2729	1686
9000	2672	1559
9500	2415	1335
10000	1999	1050
11000	73	35
11500	72	33

Fuel System:
 Supercharged Methanol
 HP/Torque Multiplier 1.000

Transmission Data

Clutch:
 Launch@ RPM 6000
 Slip RPM 7200
 Clutch Slippage 1.010
 Lock-up option? No

Gear	Ratio	Eff	Shift@
2nd -	1.85	0.970	9200
3rd -	1.30	0.980	9400
4th -	1.00	0.990	100

Final Drive Data

Gear Ratio 4.56
 Efficiency 0.970
 Tire Rollout - inches 110.0
 Tire Width - inches 17.00

Aerodynamic Data

Frontal Area - sq ft 19.5
 Drag Coefficient 0.580
 Lift Coefficient 0.400

Polar Moments of Inertia

Engine + Flywheel + Clutch 4.84
 Transmission + Driveshaft 0.426
 Tires + Wheels + Ring Gear 64.6

1.040

Time	Distance	MPH	Acceleration	Gear	RPM
0.00	0	0.0	3.25(s)	1	6,000
0.146/0.00	Rollout	10.3	3.38(s)	1	7,200
0.25	11	29.2	3.36(s)	1	7,200
0.50	25	47.6	3.32	1	7,200
0.56	30	52.3	3.31	1	7,200
0.67	39	60.0	3.29	1	7,200
0.75	46	65.8	3.26(s)	1	7,200
0.88	60	75.4	3.25	1	7,200
1.00	74	83.7	3.22	1	7,670
1.23	105	100.0	3.16	1	9,050
1.25	107	101.2	3.11	1	9,130
1.26	109	102.0	3.06	1	9,210
1.46	141	116.5	3.12(s)	2	7,370
1.50	148	119.1	2.97	2	7,430
1.75	194	134.0	2.62	2	8,160
2.00	246	147.8	2.40	2	8,820
2.25	303	159.9	2.04	2	9,340
2.28	309	161.0	1.93	2	9,410
2.36	330	165.0	1.98	3	8,420
2.48	358	170.2	2.01	3	7,620
2.50	363	171.1	1.92	3	7,640
2.75	428	180.9	1.72	3	7,970
3.00	496	190.2	1.62	3	8,310
3.25	567	198.9	1.51	3	8,620
3.50	642	206.8	1.34	3	8,890
3.56	660	208.6	1.33	3	8,920
3.75	719	214.0	1.24	3	9,110
4.00	799	220.3	1.05	3	9,300
4.25	881	225.8	0.92	3	9,450
4.50	964	230.5	0.79	3	9,590
4.61	1000	232.3	0.73	3	9,640
4.75	1050	234.6	0.67	3	9,690
5.00	1136	238.1	0.58	3	9,790
5.25	1224	241.1	0.50	3	9,860
5.50	1313	243.8	0.43	3	9,940
5.52	1320	244.0	0.46	3	9,930

1/8 Mile: 3.56 sec @ 205.3 MPH 1/4 Mile: 5.52 sec @ 243.1 MPH