SHORT BLOCK

Block:	SBF	Bore:	4.030 in	Stroke:	3.400 in
Cylinders:	8	Cyl Vol:	710.69 cc	Total Vol:	347.0 ci

CYLINDER HEADS

Cylinder Heads:	Low Performance/Stock Ports And Valves		
Airflow File:	***		
Intake Valves:	1	Exhaust Valves:	1
Intake Valve:	1.840 in	Exhaust Valve:	1.540 in

COMPRESSION

Compression Ratio:	9.60	Combustion Space:	82.64 cc

INDUCTION

Induction Flow:	500.0 cfm @ 1.50 inHg			Fuel:	Gasoline
Manifold Type:	Dual-Plane Manifold			N20:	0.0 lbs/min
Blower:	None			Intercooler:	*** %
Flow:	*** cfm	Pressure Ratio:	***	Boost Limit:	*** psi
Speed:	*** rpm	Belt Gear Ratio:	***	Surge Flow:	*** cfm
Eff:	*** %	Internal Gear Ratio:	***		

EXHAUST

Exhaust System:	Small-Tube Headers With Mufflers

CAMSHAFT

Camshaft Type:	Truck Cam	Cam File:	***
Lifter:	Roller	Lobe Center:	108.0
Cam Specs @:	0.050-Lift	Valve Overlap:	45.0
Int Lift@Valve:	0.422 in	Int Duration:	256.0
Exh Lift@Valve:	0.448 in	Exh Duration:	266.0
Nominal Timing		Timing@ Adv(+)/Ret(-):	0.0

IVO (BTDC):	12.0	IVC (ABDC):	64.0	IVO:	12.0	IVC:	64.0
EVO (BBDC):	53.0	EVC (ATDC):	33.0	EVO:	53.0	EVC:	33.0
ICA (ATDC):	116.0	ECA (BTDC):	100.0	ICA:	116.0	ECA:	100.0

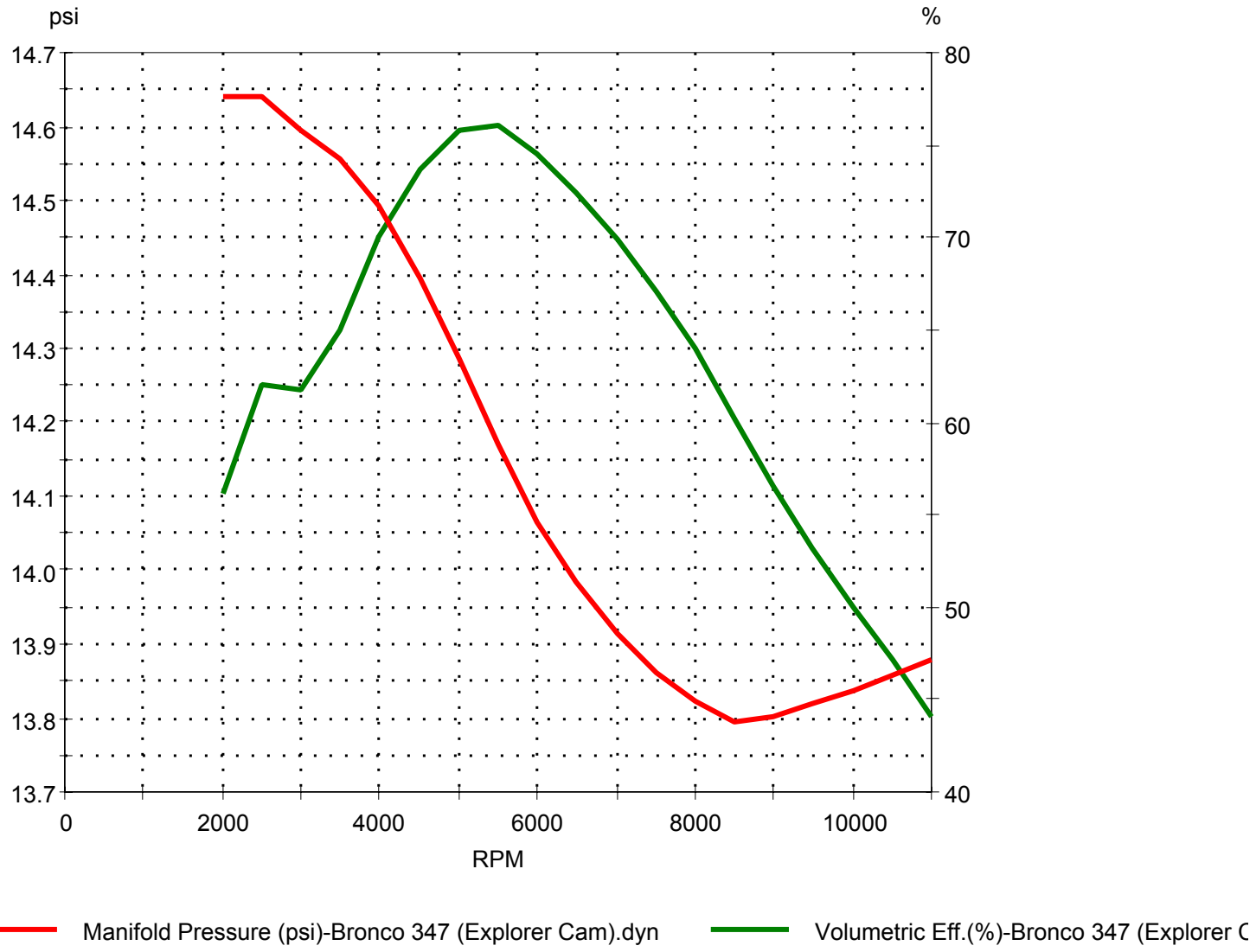
CYLINDER HEAD AIRFLOW DATA

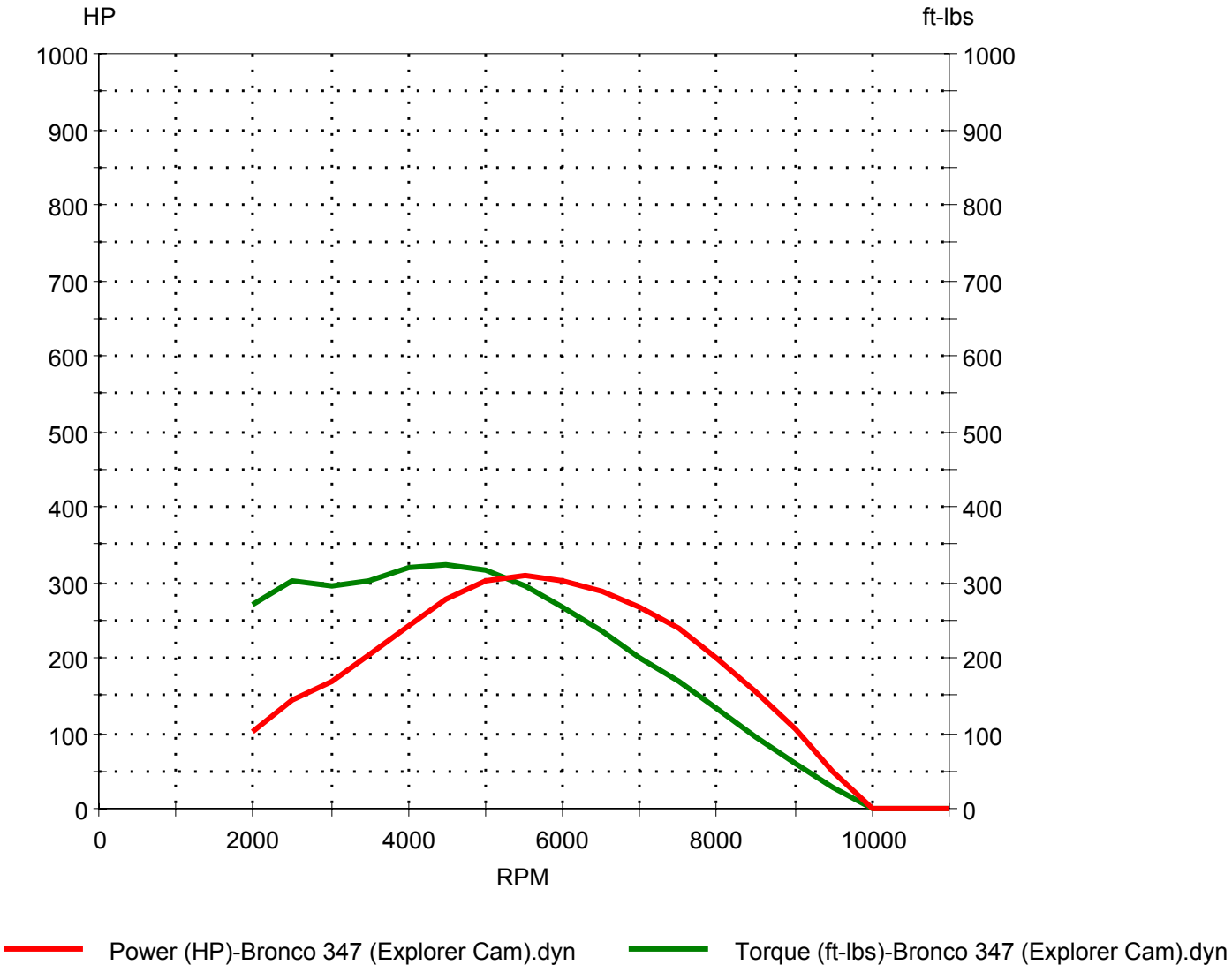
Description: Low Performance/Stock Ports And Valves

Intake Valve		Exhaust Valve	
Test Diameter:	2.020 in	Test Diameter:	1.600 in
Pressure Drop:	25.0 inH2O	Pressure Drop:	25.0 inH2O
Lift: in	Flow: cfm	Lift: in	Flow: cfm
0.200	119.0	0.200	87.0
0.300	157.0	0.300	104.0
0.400	190.0	0.400	111.0
0.500	196.0	0.500	116.0
0.550	199.0	0.550	117.0
0.600	199.0	0.600	117.0
0.650	202.0	0.650	118.0
0.710	202.0	0.710	118.0
***	***	***	***
***	***	***	***

CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	IMEP Pressure	FMEP Pressure	BMEP Pressure
2000	103	271	14.64	56.1	158.1	17.3	119.4
2500	143	300	14.64	62.1	166.9	18.6	132.4
3000	169	295	14.59	61.7	162.4	20.0	130.0
3500	202	303	14.56	65.0	164.4	21.6	133.5
4000	242	318	14.49	70.1	171.7	23.2	140.0
4500	277	323	14.40	73.7	176.0	25.0	142.4
5000	301	316	14.29	75.8	174.4	26.9	139.2
5500	309	295	14.17	76.1	166.7	28.8	130.0
6000	303	265	14.06	74.6	154.7	30.9	116.8
6500	289	233	13.98	72.5	142.1	33.1	102.9
7000	265	199	13.91	69.9	128.3	35.4	87.7
7500	239	167	13.86	67.1	115.8	37.7	73.7
8000	201	132	13.82	64.0	102.0	40.2	58.3
8500	156	96	13.80	60.2	87.8	42.8	42.4
9000	104	61	13.80	56.5	73.8	45.5	26.7
9500	50	28	13.82	53.2	61.2	48.3	12.1
10000	0	0	13.84	50.0	49.3	51.3	-1.9
10500	0	0	13.86	47.2	37.5	54.3	-15.8
11000	0	0	13.88	44.0	26.4	57.4	-29.3


psi
%
14.7
14.6
14.5
14.4
14.3
14.2
14.1
14.0
13.9
13.8
13.7
80
70
60
50
40
0
2000
4000
6000
8000
10000
RPM
Manifold Pressure (psi)-Bronco 347 (Explorer Cam).dyn
Volumetric Eff.(%)-Bronco 347 (Explorer C


HP
ft-lbs
1000
900
800
700
600
500
400
300
200
100
0
0
2000
4000
6000
8000
10000
RPM
Power (HP)-Bronco 347 (Explorer Cam).dyn
Torque (ft-lbs)-Bronco 347 (Explorer Cam).dyn