

SHORT BLOCK

Block: Chevy 400	Bore: 4.155 in	Stroke: 3.750 in
Cylinders: 8	Cyl Vol: 833.23 cc	Total Vol: 406.8 ci

CYLINDER HEADS

Cylinder Heads: SportsmanII		
Airflow File: SportsmanII.flw		
Intake Valves: 1	Exhaust Valves: 1	
Intake Valve: 2.020 in	Exhaust Valve: 1.600 in	

COMPRESSION

Compression Ratio: 9.00	Combustion Space: 104.15 cc
-------------------------	-----------------------------

INDUCTION

Induction Flow: 750.0 cfm @ 1.50 inHg	Fuel: Gasoline
Manifold Type: Dual-Plane Manifold	N20: 0.0 lbs/min
Blower: None	Intercooler: *** %
Flow: *** cfm	Pressure Ratio: ***
Speed: *** rpm	Boost Limit: 5.0 psi
Eff: *** %	Belt Gear Ratio: ***
	Surge Flow: *** cfm
	Internal Gear Ratio: ***

EXHAUST

Exhaust System: Large-Tube Headers With Mufflers
--

CAMSHAFT

Camshaft Type: XE268H	Cam File: XE268H.cam		
Lifter: Hyd.	Lobe Center: 110.0		
Cam Specs @: Seat-To-Seat	Valve Overlap: 54.0		
Int Lift@Valve: 0.479 in	Int Duration: 268.0		
Exh Lift@Valve: 0.480 in	Exh Duration: 280.0		
Nominal Timing	Timing@ Adv(+)/Ret(-): 4.0		
IVO (BTDC): 28.0	IVC (ABDC): 60.0	IVO: 32.0	IVC: 56.0
EVO (BBDC): 74.0	EVC (ATDC): 26.0	EVO: 78.0	EVC: 22.0
ICA (ATDC): 106.0	ECA (BTDC): 114.0	ICA: 102.0	ECA: 118.0

CYLINDER HEAD AIRFLOW DATA

Description: SportsmanII

Intake ValveTest Diameter: 2.020 in
Pressure Drop: 28.0 inH2OLift: in Flow: cfm

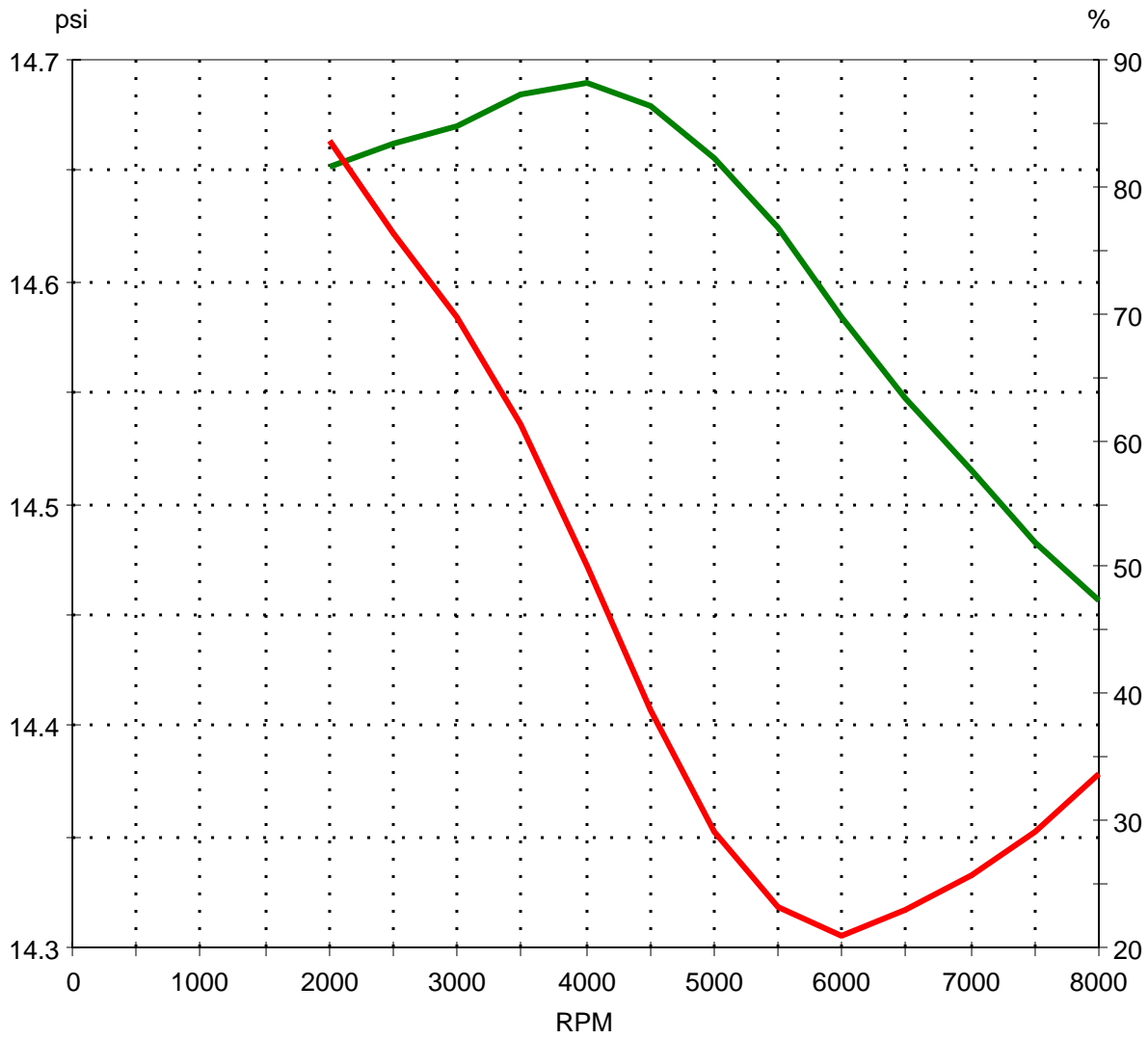
0.050	40.0
0.100	68.0
0.200	132.0
0.300	187.0
0.400	225.0
0.500	240.0
0.600	243.0

Exhaust ValveTest Diameter: 1.600 in
Pressure Drop: 28.0 inH2OLift: in Flow: cfm

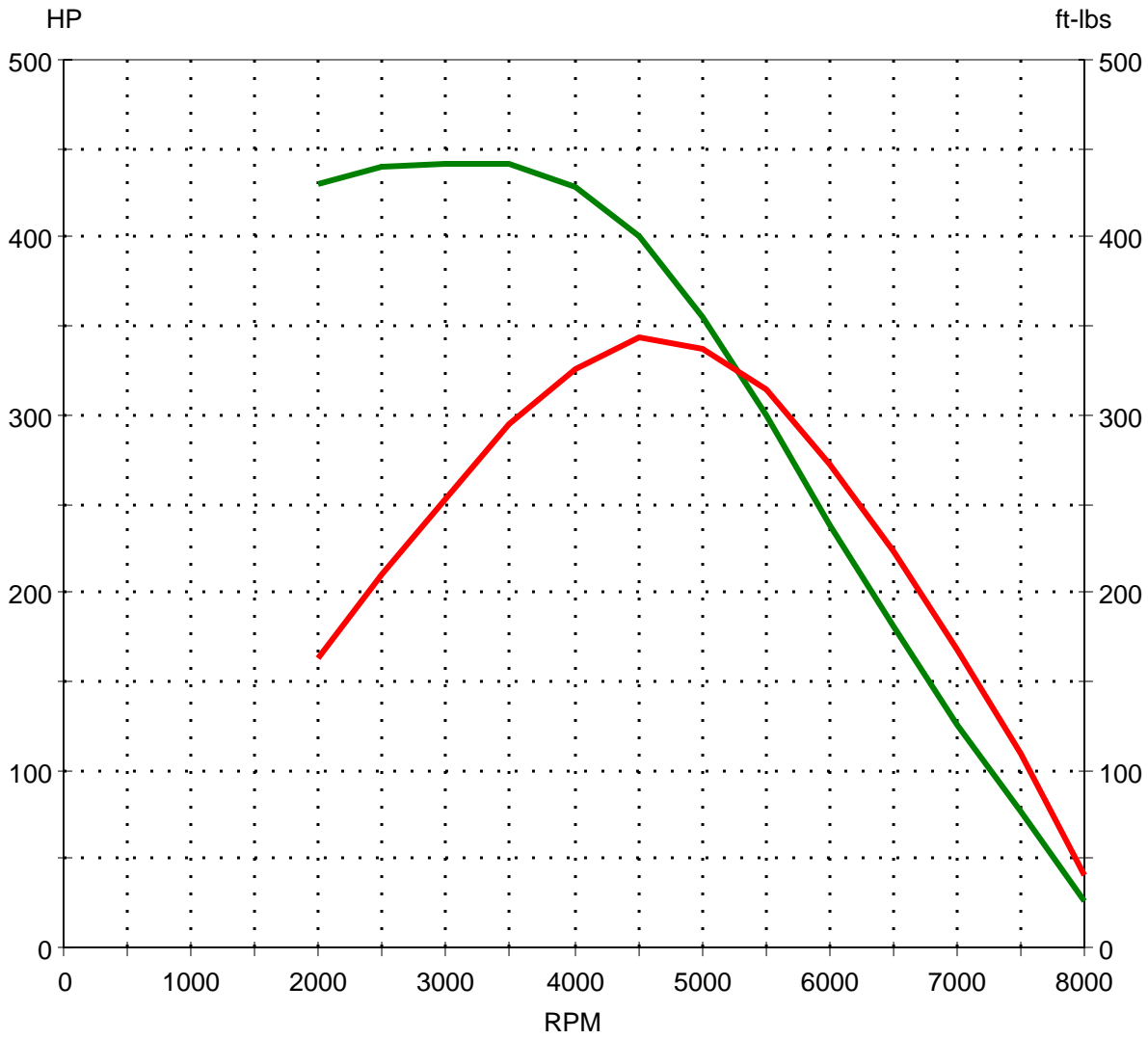
0.050	28.0
0.100	57.0
0.200	102.0
0.300	131.0
0.400	150.0
0.500	164.0
0.600	162.0

CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	IMEP Pressure	FMEP Pressure	BMEP Pressure
2000	164	429	14.66	81.6	208.3	17.8	161.5
2500	209	440	14.62	83.3	204.6	19.3	165.4
3000	252	441	14.58	84.8	202.5	21.0	165.8
3500	294	441	14.54	87.3	200.3	22.8	165.9
4000	327	429	14.47	88.1	195.5	24.7	161.1
4500	344	401	14.41	86.4	186.5	26.7	150.8
5000	338	355	14.35	82.2	170.2	28.9	133.3
5500	314	299	14.32	76.7	150.5	31.2	112.6
6000	271	237	14.30	69.7	128.2	33.6	89.2
6500	223	180	14.32	63.4	108.0	36.2	67.8
7000	167	125	14.33	57.6	88.8	38.8	47.1
7500	108	76	14.35	51.9	71.9	41.6	28.5
8000	41	27	14.38	47.3	55.2	44.6	10.0
8500	0	0	14.40	42.3	40.3	47.6	-6.9
9000	0	0	14.43	38.3	27.0	50.8	-22.5
9500	0	0	14.45	34.4	15.0	54.1	-36.9
10000	0	0	14.48	31.0	4.8	57.6	-49.8
10500	0	0	14.50	27.8	-4.7	61.2	-62.2
11000	0	0	14.53	24.7	-13.1	64.9	-73.5



— Manifold Pressure (psi)-406.dyn — Volumetric Eff.(%)-406.dyn



— Power (HP)-406.dyn — Torque (ft-lbs)-406.dyn