

## SHORT BLOCK

Block: 5.3L GEN III	Bore: 3.780 in	Stroke: 3.622 in
Cylinders: 8	Cyl Vol: 666.07 cc	Total Vol: 325.2 ci

## CYLINDER HEADS

Cylinder Heads: 5.3L		
Airflow File: 5.3L heads.flw		
Intake Valves: 1	Exhaust Valves: 1	
Intake Valve: 1.890 in	Exhaust Valve: 1.550 in	

## COMPRESSION

Compression Ratio: 9.50	Combustion Space: 78.36 cc
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## INDUCTION

Induction Flow: 850.0 cfm @ 1.50 inHg	Fuel: Gasoline
Manifold Type: Sequential-Fire Injection	N20: 0.0 lbs/min
Blower: None	Intercooler: *** %
Flow: *** cfm	Pressure Ratio: ***
Speed: *** rpm	Boost Limit: *** psi
Eff: *** %	Surge Flow: *** cfm
	Internal Gear Ratio: ***

## EXHAUST

Exhaust System: H.P. Manifolds And Mufflers
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## CAMSHAFT

Camshaft Type: 01 LS6	Cam File: 01 LS6.cam		
Lifter: Roller	Lobe Center: 116.0		
Cam Specs @: 0.050-Lift	Valve Overlap: -24.5		
Int Lift@Valve: 0.525 in	Int Duration: 204.0		
Exh Lift@Valve: 0.525 in	Exh Duration: 211.0		
Nominal Timing	Timing@ Adv(+)/Ret(-): 0.0		
IVO (BTDC): -12.0	IVC (ABDC): 36.0	IVO: -12.0	IVC: 36.0
EVO (BBDC): 43.5	EVC (ATDC): -12.5	EVO: 43.5	EVC: -12.5
ICA (ATDC): 114.0	ECA (BTDC): 118.0	ICA: 114.0	ECA: 118.0

## CYLINDER HEAD AIRFLOW DATA

Description: 5.3L

Intake Valve

Test Diameter: 1.890 in  
 Pressure Drop: 1.0 inH2O

<u>Lift: in</u>	<u>Flow: cfm</u>
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0.100	63.0
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0.200	128.0
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0.300	179.0
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0.400	210.0
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0.500	218.0
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0.550	221.0
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0.600	226.0
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Exhaust Valve

Test Diameter: 1.550 in  
 Pressure Drop: 1.0 inH2O

<u>Lift: in</u>	<u>Flow: cfm</u>
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0.100	54.0
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0.200	93.0
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0.300	121.0
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0.400	145.0
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0.500	163.0
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0.550	168.0
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0.600	174.0
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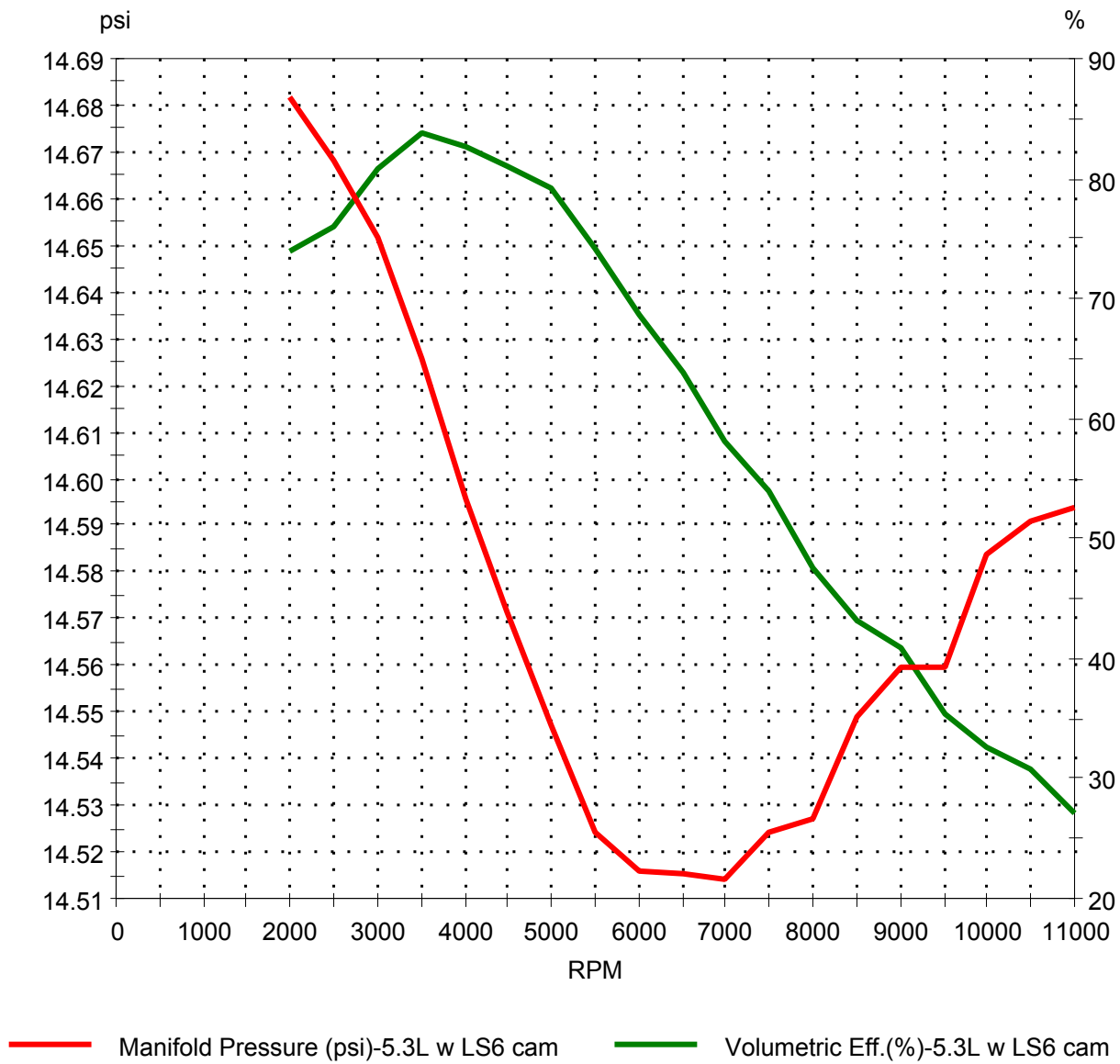
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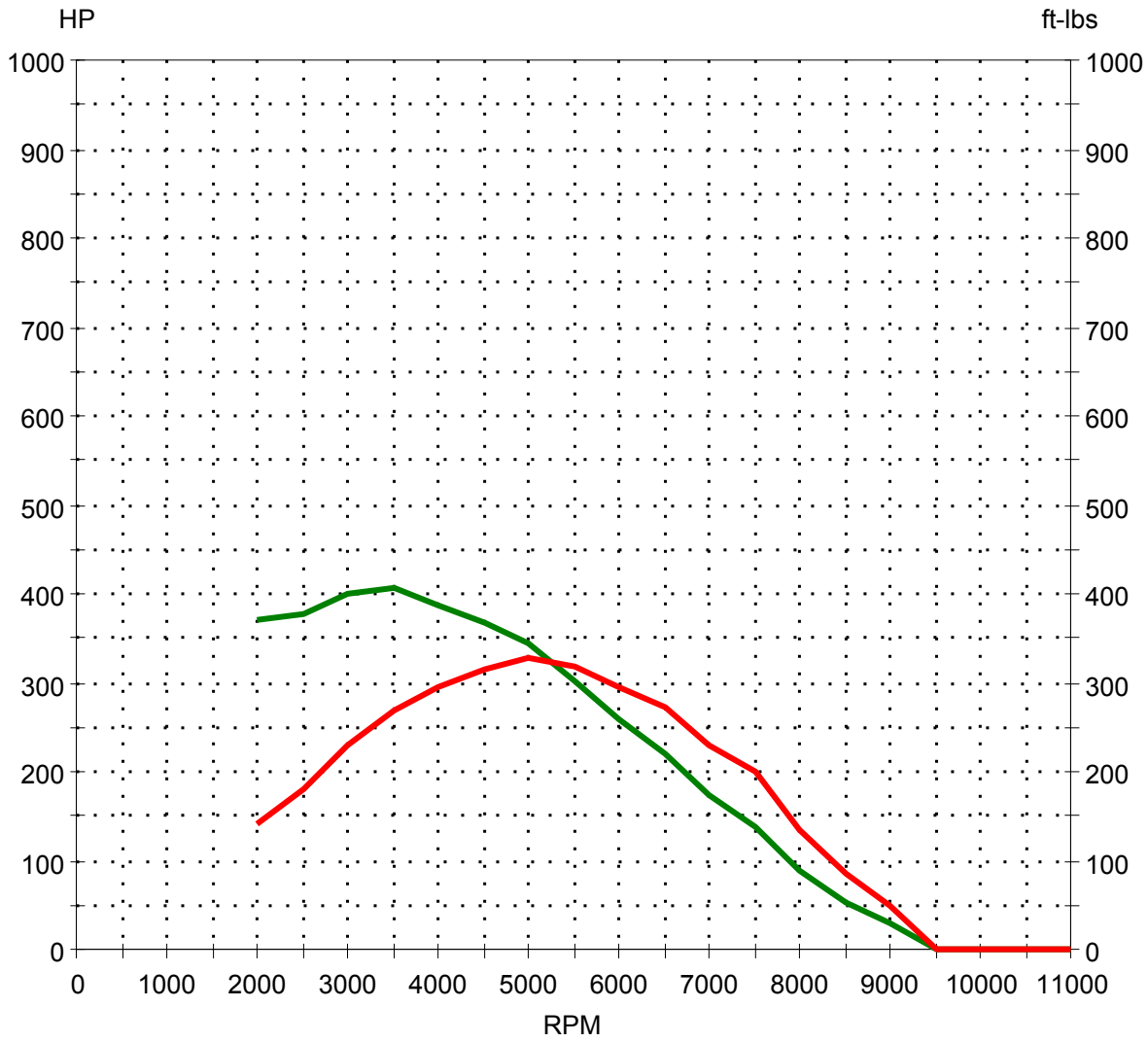
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## CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	IMEP Pressure	FMEP Pressure	BMEP Pressure
2000	141	369	14.68	73.9	222.4	17.6	173.6
2500	179	377	14.67	76.1	217.5	19.1	177.2
3000	228	399	14.65	80.9	226.1	20.6	187.7
3500	270	405	14.63	83.8	226.2	22.3	190.5
4000	295	388	14.60	82.7	217.4	24.1	182.3
4500	316	368	14.57	81.1	209.7	26.1	173.3
5000	329	346	14.55	79.2	200.4	28.1	162.5
5500	318	303	14.52	74.2	181.5	30.3	142.6
6000	296	259	14.52	68.6	161.6	32.6	121.7
6500	272	219	14.52	63.9	144.4	35.0	103.2
7000	230	172	14.51	58.0	123.4	37.5	81.0
7500	198	139	14.52	53.9	109.5	40.2	65.4
8000	134	88	14.53	47.5	86.9	43.0	41.5
8500	86	53	14.55	43.2	72.3	45.8	25.0
9000	51	29	14.56	41.0	63.6	48.8	13.9
9500	0	0	14.56	35.4	45.7	52.0	-5.9
10000	0	0	14.58	32.7	35.9	55.2	-18.2
10500	0	0	14.59	30.8	28.8	58.6	-28.1
11000	0	0	14.59	27.1	17.1	62.1	-42.4





— Power (HP)-5.3L w LS6 cam      — Torque (ft-lbs)-5.3L w LS6 cam