

## SHORT BLOCK

Short Block:	Ford 302 Boss				
No. Cylinders:	8	Bore:	4.030 in	Rod Length:	5.151 in
Total Volume:	306.1 ci	Stroke:	3.000 in	Rod Ratio:	1.717

## CYLINDER HEADS

Cylinder Heads: Boss 302 exch data

## Valve Specifications:

Intake Valves/Port:	1	Exhaust Valves/Port:	1
Intake Valve Dia:	2.190 in	Exhaust Valve Dia:	1.730 in

## COMPRESSION

Compression Ratio:	10.00		
Combustion Space:	69.68 cc	Cylinder Volume:	627.08 cc

## INDUCTION

Induction Flow:	750.0 cfm @ 1.50 inHg	Fuel Type:	Gasoline
Manifold Type:	Dual-Plane High-Flow	Nitrous Injection:	0.0 lbs/min

## Forced Induction Specifications:

Blower Type:	None				
Island Flow:	*** cfm	Surge Flow:	*** cfm	Pressure Ratio:	***
Impeller Speed:	*** rpm	Belt Ratio:	***	Internal Ratio:	***
Peak Efficiency:	*** %	Boost Limit:	*** psi	Intercooler:	*** %

## EXHAUST

Exhaust System: Small-Tube Headers With Mufflers

## CAMSHAFT

Cam Name: Boss 302 Stock Cam

Intake Lift At Valve:	0.500 in	Lifter Type:	Solid
Exhaust Lift At Valve:	0.500 in	Lifter Acceleration Rate:	2.47 (Auto)

Valve Opening/Closing Based On: Seat-To-Seat

Primary Timing (Seat-to-Seat):	IVO: 34.0	IVC: 76.0	EVO: 86.0	EVC: 24.0
Secondary Timing (0.050-inch):	IVO: 6.0	IVC: 42.0	EVO: 46.0	EVC: 2.0

Cam Installed Advanced(+)/Retarded(-): 0.0

True IVO:	34.0	True EVO:	86.0				
True IVC:	76.0	True ICA:	111.0	True EVC:	24.0	True ECA:	121.0

## Cam Timing Summary:

Intake Duration:	290.0	Exhaust Duration:	290.0
Intake Centerline Angle:	111.0	Exhaust Centerline Angle:	121.0
Lobe Centerline Angle:	116.0	Valve Overlap:	58.0

## NOTES

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## CYLINDER HEAD AIRFLOW DATA

Description: Boss 302 exch data

Intake Valve

Test Diameter: 2.190 in  
Pressure Drop: 28.0 inH2O  
Valves Per Port: 1

Lift: in                      Flow: cfm

0.100                      73.5

0.200                      146.7

0.300                      203.5

0.400                      244.6

0.500                      270.1

0.600                      279.5

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Exhaust Valve

Test Diameter: 1.730 in  
Pressure Drop: 28.0 inH2O  
Valves Per Port: 1

Lift: in                      Flow: cfm

0.100                      47.2

0.200                      80.0

0.300                      117.0

0.400                      149.1

0.500                      173.4

0.600                      186.5

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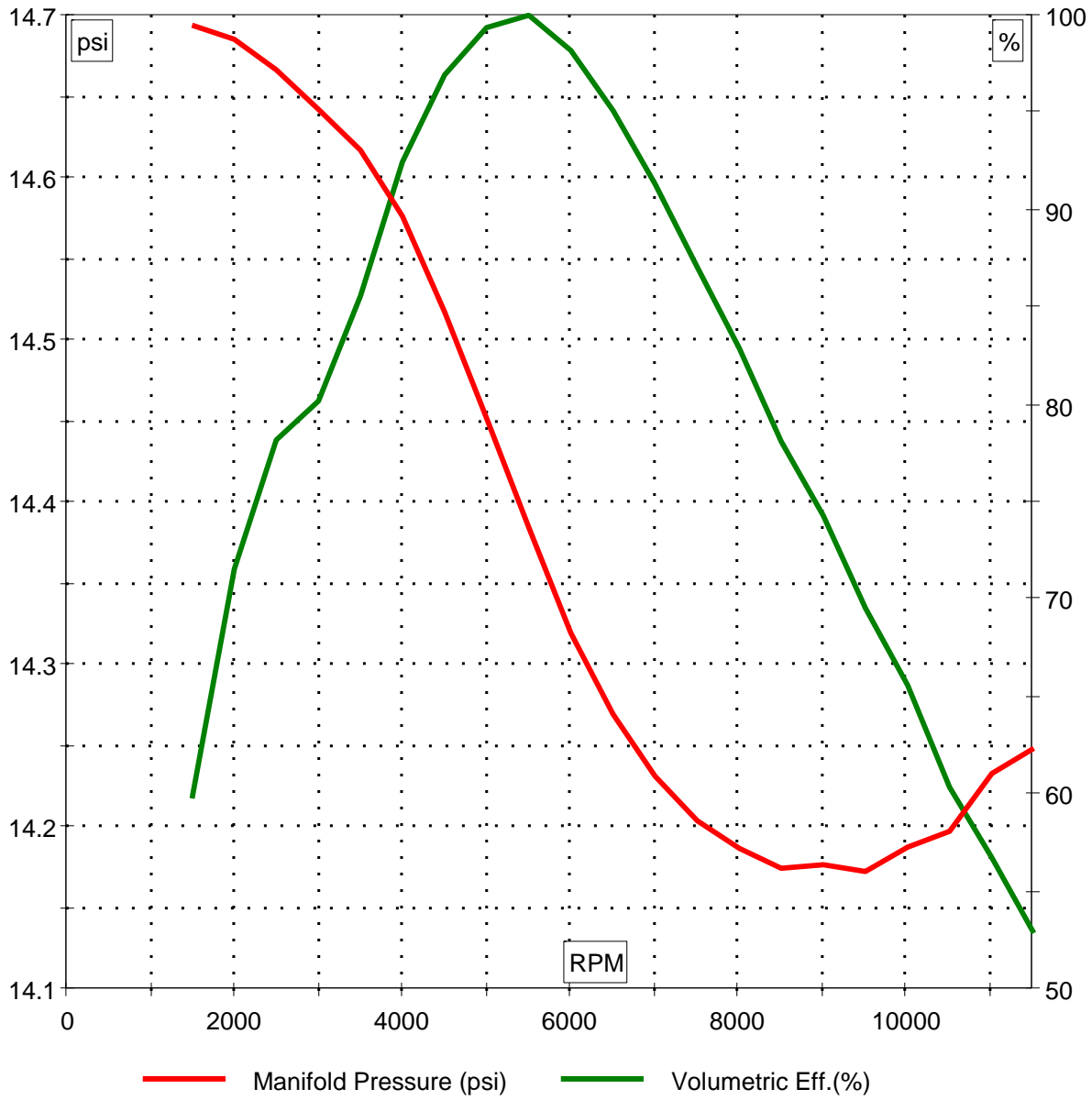
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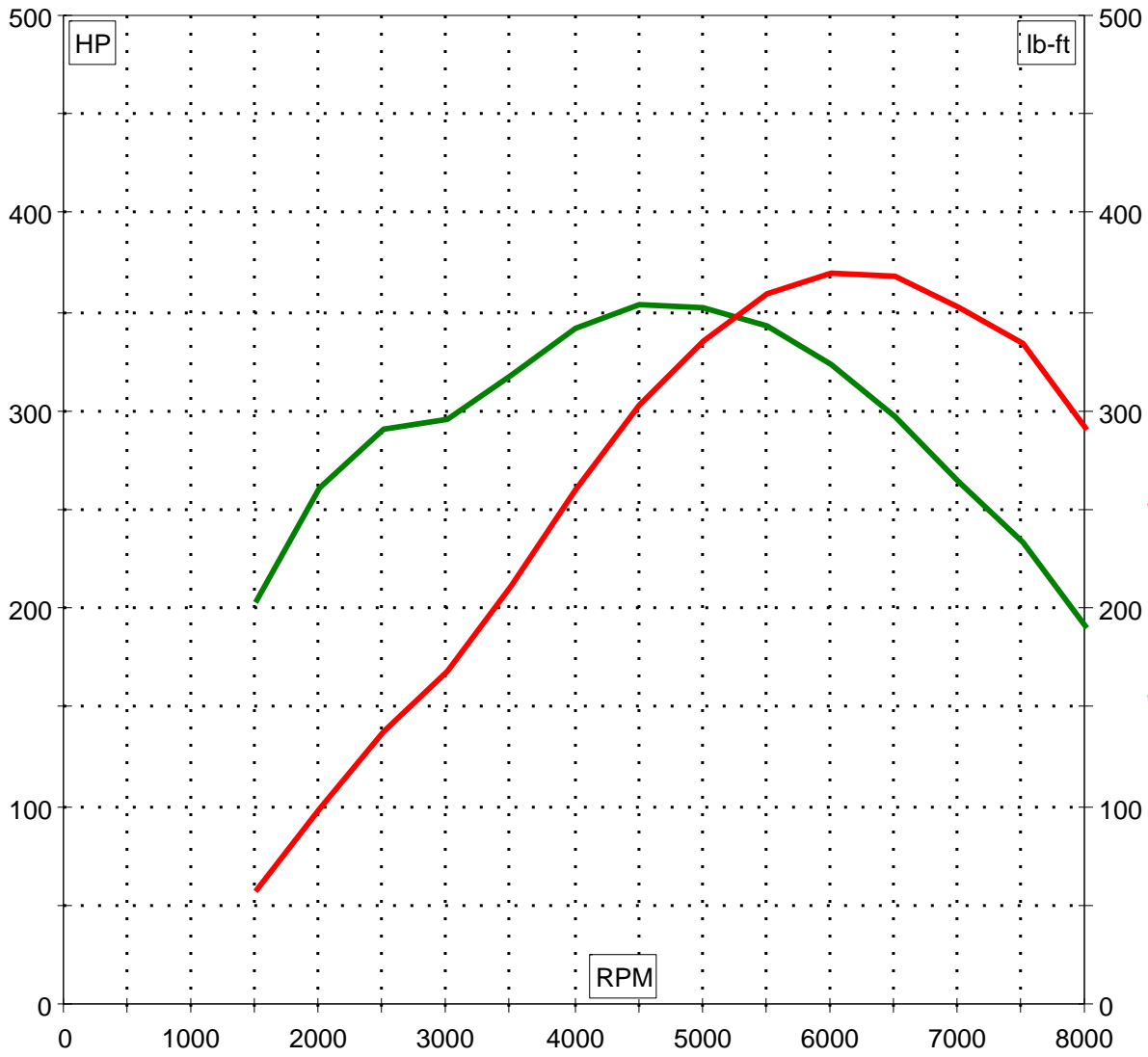
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## CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
1500	58	204	14.69	59.8	100.4
2000	100	262	14.68	71.6	128.9
2500	139	291	14.67	78.2	143.5
3000	169	296	14.64	80.2	145.9
3500	212	318	14.62	85.6	156.9
4000	261	342	14.58	92.5	168.6
4500	303	354	14.52	96.9	174.4
5000	336	353	14.45	99.3	173.7
5500	360	343	14.38	100.0	169.1
6000	370	324	14.32	98.2	159.6
6500	368	298	14.27	95.1	146.7
7000	353	265	14.23	91.3	130.4
7500	334	234	14.20	87.1	115.4
8000	291	191	14.19	82.9	94.1
8500	253	156	14.18	78.1	77.0
9000	213	124	14.18	74.3	61.2
9500	166	92	14.17	69.6	45.1
10000	122	64	14.19	65.6	31.7
10500	58	29	14.20	60.4	14.3
11000	9	4	14.23	56.8	2.0
11500	0	0	14.25	52.9	0.0





— Power (HP)-BOSS 302 Ford Stock Cam from B2 website  
— Torque (lb-ft)-BOSS 302 Ford Stock Cam from B2 website