

SHORT BLOCK

Short Block:	Chevy 350				
No. Cylinders:	8	Bore:	4.030 in	Rod Length:	5.700 in
Total Volume:	355.5 ci	Stroke:	3.484 in	Rod Ratio:	1.636

CYLINDER HEADS

Cylinder Heads: AirFlowResearch 190

Valve Specifications:

In take Valves/Port:	1	Exhaust Valves/Port:	1
In take Valve Dia:	2.020 in	Exhaust Valve Dia:	1.600 in

COMPRESSION

Compression Ratio:	9.80		
Combustion Space:	82.75 cc	Cylinder Volume:	728.25 cc

INDUCTION

Induction Flow:	700.0 cfm @ 1.50 inHg	Fuel Type:	Gasoline
Manifold Type:	Tuned-Port Injection	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: XFI_268_Mod_111LSA

In take Lift At Valve:	0.570 in	Lifter Type:	Roller Hydraulic
Exhaust Lift At Valve:	0.565 in	Lifter Acceleration Rate:	3.12 (Auto)

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

Primary Timing (Seat-to-Seat):	IVO: 27.0	IVC: 61.0	EVO: 73.0	EVC: 23.0
Secondary Timing (0.050-inch):	IVO: 2.0	IVC: 36.0	EVO: 47.0	EVC: -3.0

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

True IVO:	27.0	True EVO:	73.0				
True IVC:	61.0	True ICA:	107.0	True EVC:	23.0	True ECA:	115.0

Cam Timing Summary:

In take Duration:	268.0	Exhaust Duration:	276.0
In take Centerline Angle:	107.0	Exhaust Centerline Angle:	115.0
Lobe Centerline Angle:	111.0	Valve Overlap:	50.0

NOTES

1.6 Rocker Ratio.

CYLINDER HEAD AIRFLOW DATA

Description: AirFlowResearch 190

Intake Valve

Test Diameter: 2.020 in
 Pressure Drop: 28.0 inH2O
 Valves Per Port: 1

<u>Lift: in</u>	<u>Flow: cfm</u>
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0.050	40.0
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0.100	71.0
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0.200	144.0
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0.300	208.0
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0.400	244.0
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0.500	262.0
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0.600	261.0
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Exhaust Valve

Test Diameter: 1.600 in
 Pressure Drop: 28.0 inH2O
 Valves Per Port: 1

<u>Lift: in</u>	<u>Flow: cfm</u>
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0.050	31.0
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0.100	67.0
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0.200	121.0
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0.300	157.0
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0.400	188.0
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0.500	202.0
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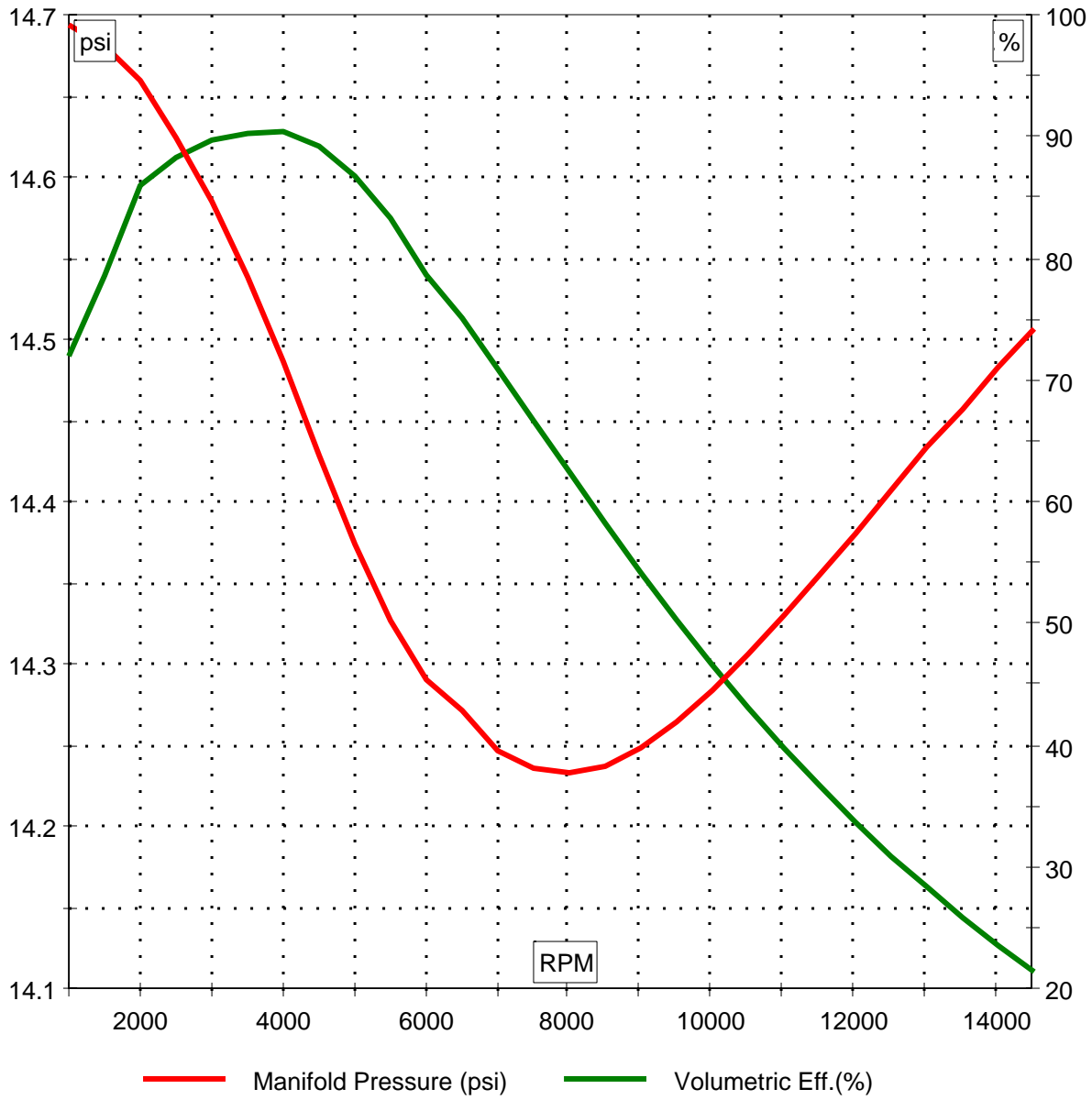
0.600	211.0
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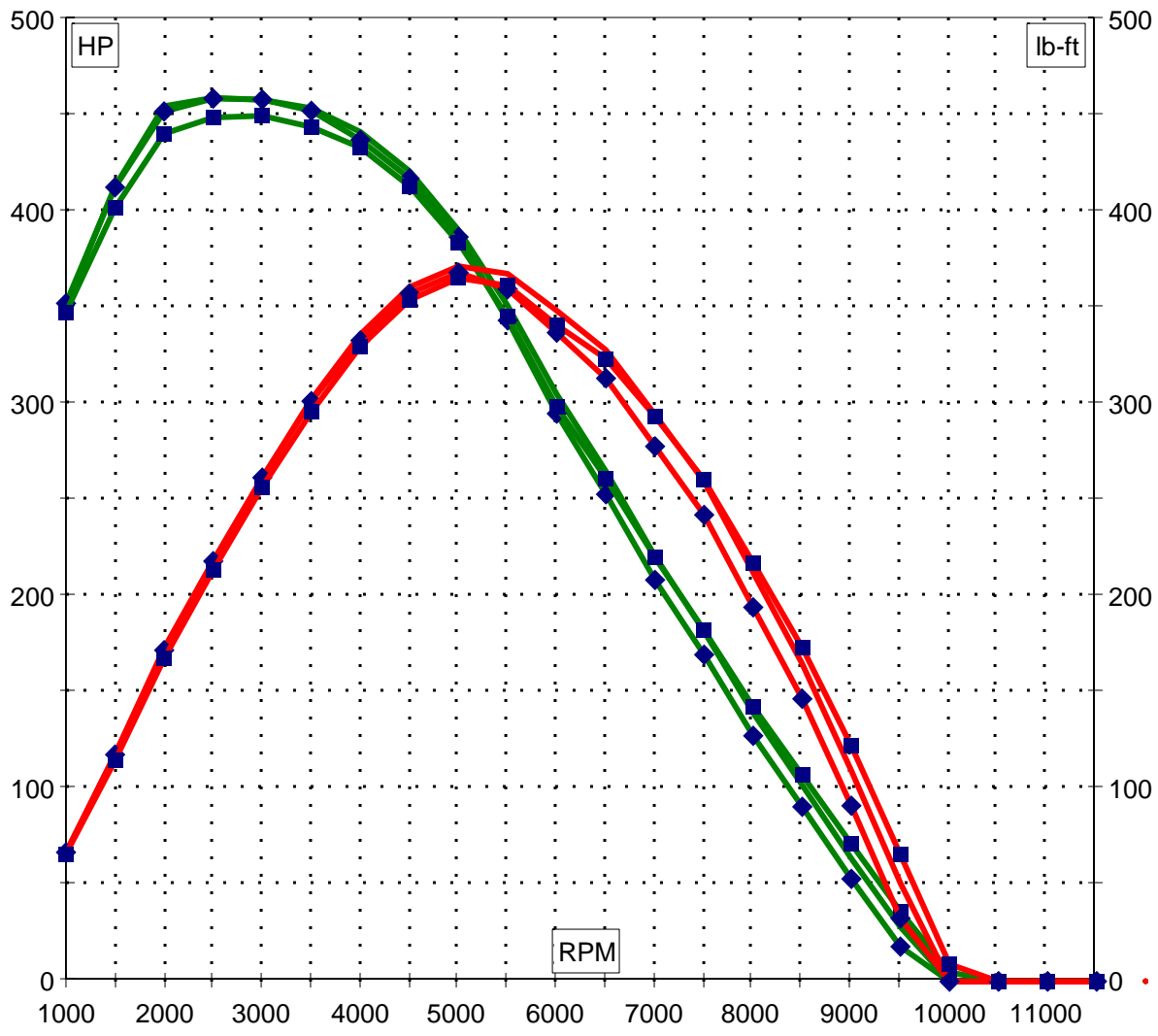
CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
1000	67	350	14.69	72.0	148.5
1500	118	412	14.68	78.6	175.0
2000	173	454	14.66	86.0	192.6
2500	218	458	14.62	88.3	194.4
3000	261	457	14.59	89.7	193.9
3500	302	453	14.54	90.3	192.1
4000	336	441	14.49	90.4	186.9
4500	360	420	14.43	89.2	178.3
5000	371	390	14.37	86.8	165.3
5500	367	350	14.33	83.3	148.7
6000	348	305	14.29	78.7	129.2
6500	327	265	14.27	75.1	112.2
7000	294	221	14.25	71.0	93.6
7500	259	182	14.24	66.7	77.0
8000	212	139	14.23	62.5	59.0
8500	165	102	14.24	58.3	43.2
9000	109	64	14.25	54.3	27.0
9500	51	28	14.27	50.4	12.0
10000	0	0	14.28	46.7	0.0
10500	0	0	14.31	43.2	0.0
11000	0	0	14.33	39.9	0.0
11500	0	0	14.36	36.8	0.0
12000	0	0	14.38	33.8	0.0
12500	0	0	14.41	31.0	0.0
13000	0	0	14.43	28.5	0.0
13500	0	0	14.46	26.0	0.0
14000	0	0	14.48	23.7	0.0
14500	0	0	14.51	21.6	0.0

PROTOOLS CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Indicated Power	Frictional Power	Pumping Power	Mech. Eff %	Induction Airflow	Piston Force	Piston Speed	IMEP Pressure	FMEP Pressure	PMEP Pressure
1000	67	74	7	0	90.4	74.1	2096	581	164.3	15.2	0.7
1500	118	130	11	1	90.6	121.3	2463	871	193.1	17.0	1.2
2000	173	191	17	2	90.4	177.0	2717	1161	213.0	18.7	1.7
2500	218	243	23	2	89.7	227.1	2764	1452	216.7	20.1	2.2
3000	261	294	29	4	88.9	276.9	2782	1742	218.1	21.5	2.6
3500	302	343	36	5	88.1	325.0	2783	2032	218.2	23.0	3.1
4000	336	386	44	6	87.0	372.1	2740	2323	214.8	24.5	3.4
4500	360	420	52	8	85.7	413.0	2653	2613	208.0	26.0	3.7
5000	371	442	62	9	84.0	446.3	2510	2903	196.8	27.6	3.9
5500	367	449	72	10	81.7	471.4	2321	3194	181.9	29.3	4.0
6000	348	442	84	11	78.7	485.6	2095	3484	164.2	31.1	3.9
6500	327	435	97	11	75.2	502.4	1904	3774	149.2	33.1	3.9
7000	294	417	111	12	70.5	510.9	1692	4065	132.6	35.3	3.7
7500	259	398	127	12	65.1	514.7	1509	4355	118.3	37.7	3.5
8000	212	369	145	12	57.5	514.6	1309	4645	102.6	40.3	3.3
8500	165	340	164	12	48.4	510.0	1138	4936	89.2	43.0	3.0
9000	109	306	186	11	35.7	502.4	965	5226	75.7	45.9	2.7
9500	51	270	209	10	18.9	492.4	808	5516	63.3	49.0	2.4
10000	0	235	234	9	0.0	480.3	669	5807	52.4	52.2	2.1
10500	0	193	262	8	0.0	466.6	523	6097	41.0	55.6	1.7
11000	0	153	292	7	0.0	451.4	396	6387	31.1	59.1	1.4
11500	0	108	324	5	0.0	435.5	266	6678	20.9	62.9	1.0
12000	0	68	359	3	0.0	417.5	160	6968	12.5	66.7	0.6
12500	0	23	397	1	0.0	398.6	52	7258	4.1	70.7	0.2
13000	0	0	436	0	0.0	381.5	0	7549	0.0	74.7	0.0
13500	0	0	477	0	0.0	360.9	0	7839	0.0	78.8	0.0
14000	0	0	522	0	0.0	341.2	0	8129	0.0	83.0	0.0
14500	0	0	569	0	0.0	321.5	0	8420	0.0	87.4	0.0





- Power (HP)-355_TPI_XFI_268_Mod_111LSA_1r6_Final.dyn
 - Power (HP)-355_TPI_LPE74219_112LSA_1r6_Final.dyn
 - ◆ Torque (lb-ft)-355_TPI_XFI_268_113LSA_1r6_Final.dyn
- ◆ Power (HP)-355_TPI_XFI_268_113LSA_1r6_Final.dyn
 - Torque (lb-ft)-355_TPI_XFI_268_Mod_111LSA_1r6_Final.dyn
 - ◆ Torque (lb-ft)-355_TPI_LPE74219_112LSA_1r6_Final.dyn