

Short Block:	Chevy 350	Bore:	4.030 in	Stroke:	3.480 in
No. Cylinders:	8	Cylinder Volume:	727.41 cc	Total Vol:	355.1 ci

## CYLINDER HEADS

Cylinder Heads: 292

Valve Specifications:

Intake Valves/Port:	1	Exhaust Valves/Port:	1
Intake Valve Dia:	2.050 in	Exhaust Valve Dia:	1.600 in

## COMPRESSION

Compression Ratio: 11.50

Combustion Space: 69.28 cc      Cylinder Volume: 727.41 cc

## INDUCTION

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

Forced Induction Specifications:

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

## EXHAUST

Exhaust System: Large-Tube Headers With Mufflers

## CAMSHAFT

Cam Name: Chevy 12-556-4 V8

Intake Lift At Valve:	0.462 in	Lifter Type:	Hydraulic
Exhaust Lift At Valve:	0.480 in	Lifter Acceleration Rate:	2.72 (Auto)

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

Primary Timing (Seat-to-Seat):	IVO: 23.0	IVC: 59.0	EVO: 78.0	EVC: 22.0
Secondary Timing (0.050-inch):	IVO: -4.0	IVC: 42.0	EVO: 48.0	EVC: 2.0

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

True IVO:	23.0	True EVO:	78.0
True IVC:	59.0	True ECA:	118.0
True ICA:	108.0	True EVC:	22.0

Cam Timing Summary:

Intake Duration:	262.0	Exhaust Duration:	280.0
Intake Centerline Angle:	108.0	Exhaust Centerline Angle:	118.0
Lobe Centerline Angle:	113.0	Valve Overlap:	45.0

## NOTES

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CYLINDER HEAD AIRFLOW DATA

Description: 292

Intake Valve

Test Diameter: 2.020 in  
 Pressure Drop: 25.0 inH2O

Exhaust Valve

Test Diameter: 1.600 in  
 Pressure Drop: 25.0 inH2O

Lift: in                      Flow: cfm

0.100                      96.4  
 0.200                      143.9  
 0.300                      190.1  
 0.400                      218.5  
 0.500                      243.6  
 0.600                      261.6  
 0.700                      271.2

Lift: in                      Flow: cfm

0.100                      48.8  
 0.200                      110.3  
 0.300                      162.2  
 0.400                      184.5  
 0.500                      186.5  
 0.600                      186.6  
 0.700                      185.9

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## CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
2000	139	365	14.67	75.7	157.1
2500	181	380	14.65	80.0	163.7
3000	231	404	14.62	84.8	173.8
3500	286	428	14.57	90.8	184.5
4000	340	446	14.51	95.9	192.3
4500	390	455	14.44	98.9	196.0
5000	429	451	14.35	100.5	194.1
5500	454	434	14.27	100.5	186.8
6000	460	403	14.18	97.6	173.4
6500	447	361	14.13	93.2	155.6
7000	423	317	14.09	88.5	136.5
7500	389	272	14.07	82.6	117.3
8000	355	233	14.08	78.8	100.5
8500	306	189	14.06	72.7	81.3
9000	256	150	14.09	68.3	64.4
9500	202	112	14.10	63.7	48.1
10000	148	78	14.12	59.7	33.5
10500	79	40	14.14	55.3	17.0
11000	13	6	14.17	51.2	2.6

## 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
2000	139	156	12	4	90.0	155.5	2226	1160	174.5	13.4	4.0
2500	181	205	15	6	89.7	205.5	2328	1450	182.5	13.5	5.2
3000	231	261	18	9	89.6	261.3	2475	1740	194.1	13.6	6.7
3500	286	324	21	13	89.4	326.7	2633	2030	206.4	13.6	8.3
4000	340	387	25	18	89.1	394.1	2753	2320	215.8	13.7	9.9
4500	390	447	28	23	88.5	457.5	2824	2610	221.4	14.0	11.4
5000	429	496	33	28	87.7	516.3	2824	2900	221.4	14.7	12.6
5500	454	533	39	34	86.4	567.8	2757	3190	216.1	15.8	13.6
6000	460	551	47	38	84.6	601.8	2614	3480	204.9	17.4	14.1
6500	447	552	57	41	82.2	622.4	2415	3770	189.3	19.7	14.1
7000	423	542	70	43	79.1	636.3	2202	4060	172.6	22.3	13.8
7500	389	524	85	45	75.2	636.3	1988	4350	155.9	25.3	13.4
8000	355	508	101	46	70.9	648.1	1807	4640	141.7	28.2	13.0
8500	306	477	121	46	64.9	635.4	1597	4930	125.2	31.7	12.2
9000	256	449	142	46	58.0	632.0	1418	5220	111.1	35.3	11.4
9500	202	416	166	45	49.2	621.9	1246	5510	97.7	39.0	10.6
10000	148	386	192	44	38.9	613.2	1100	5800	86.2	42.8	9.9
10500	79	343	222	41	23.4	596.1	929	6090	72.8	47.1	8.7
11000	13	304	253	38	4.3	578.9	787	6380	61.7	51.3	7.8



