



GOLD TIP AIRSTRIKE 340 spine

Arrow Consistency Test Report

Prepared by: PNL Testers

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1. Manufacturer and Arrow Information

This report evaluated Gold Tip Airstrike 340-spine carbon arrows. The information below identifies the specific product tested and provides the basic manufacturer and sample information.

Manufacturer: GOLD TIP

Model: Airstrike

Rated Spine: 340

Material: Carbon

Quantity Tested: 6 arrows

Purchase Price: \$19.99 per arrow

Manufacturer Published Specifications

GPI: 7.8

Straightness Tolerance: ± 0.001

Weight Tolerance: ± 0.5 gr

Only specifications published by the manufacturer for this model are reported. No numerical manufacturer tolerance for radial spine variation was found.

Straightness tolerance is listed as a manufacturer-published specification only. Straightness was not independently tested as part of this evaluation.

Disclosure: The Gold Tip Airstrike shafts used in this test were provided to PNL Testers by Brush Mountain Outfitters of Odessa, Texas. Brush Mountain Outfitters had no control over the testing procedure, data, results, or conclusions. All testing and results are independent.

2. Test Data and Results

The table shows spine measurements for each of the six arrows at eight positions spaced 45° apart. We used these values to calculate each arrow’s average, minimum, maximum, radial spread, radial variation, and maximum deviation from its average.

Spine Measurements

Arrow	0°	45°	90°	135°	180°	225°	270°	315°
Arrow 1	0.3477	0.3477	0.3467	0.3467	0.3486	0.3457	0.3486	0.3457
Arrow 2	0.3544	0.3496	0.3506	0.3496	0.3496	0.3506	0.3496	0.3496
Arrow 3	0.3510	0.3481	0.3438	0.3501	0.3506	0.3491	0.3467	0.3501
Arrow 4	0.3486	0.3496	0.3491	0.3496	0.3481	0.3486	0.3496	0.3491
Arrow 5	0.3525	0.3520	0.3481	0.3554	0.3554	0.3554	0.3486	0.3544
Arrow 6	0.3486	0.3515	0.3501	0.3506	0.3501	0.3496	0.3481	0.3486

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Arrow	Average	Minimum	Maximum	ATA SAS (4 × 90°)	8-Point Radial Spread (45°)	8- Point Radial Variation (%)	Maximum deviation from average
Arrow 1	0.347	0.346	0.3486	0.0019	0.0029	0.83%	0.0014
Arrow 2	0.350	0.350	0.354	0.0048	0.0048	1.37%	0.0040
Arrow 3	0.349	0.344	0.351	0.0072	0.0072	2.07%	0.0049
Arrow 4	0.349	0.348	0.350	0.0014	0.0014	0.41%	0.0009
Arrow 5	0.353	0.348	0.355	0.0072	0.0072	2.05%	0.0046
Arrow 6	0.350	0.348	0.352	0.0019	0.0034	0.96%	0.0019

Group Spine Summary

Average Group Spine	0.350	
Stiffest Arrow	Arrow 1	0.347
Weakest Arrow	Arrow 5	0.353
Group Average Spine Spread	0.006	
Group Average Spine Spread (%)	1.58%	
Difference from Factory Spine	0.010	
Difference from Factory Spine	2.83%	

3. Arrow Weight Consistency Results

We weighed each bare carbon shaft with its components removed.

Bare Carbon Shafts, with components removed.		
Arrow	Total Weight (gr)	Notes
Arrow 1	244.4	
Arrow 2	244.4	
Arrow 3	244.0	
Arrow 4	244.1	
Arrow 5	244.2	
Arrow 6	244.5	
Summary		Weight (gr)
Average		244.3
Minimum		244.0
Maximum		244.5
Total Weight Spread		0.5
Maximum Deviation from Average		0.3
Weight Spread Percentage		0.20%

Across the 6 arrows tested, the total weight spread was **0.5 grain**, representing a **0.20% difference** between the lightest and heaviest arrows.

4. Individual Arrow Radial Spine Profiles





