



Easton 5.0 – 300 Spine

Arrow Consistency Test Report

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Issue Date: September 30, 2026

1. Manufacturer and Arrow Information

The arrows evaluated in this report were Easton 5.0 non-match, 300-spine carbon arrows. The information below identifies the specific product tested and provides the basic manufacturer and sample information.

Manufacturer: Easton

Model: 5.0 standard

Rated Spine: 300

Material: Carbon

Quantity Tested: 6 arrows

Purchase Price: \$15.58 per arrow

Manufacturer Published Specifications

GPI: 8.4

Straightness Tolerance: ± 0.003

Weight Tolerance: not published

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.

2. Test Data and Results

Each arrow was measured for static spine at eight rotational positions, spaced at 45° intervals around the shaft. The measurements shown below represent the raw spine data collected for each of the 6 arrows tested.

The raw data was then used to calculate the average spine, minimum and maximum spine, radial spread, radial variation, and maximum deviation from the individual arrow average.

Raw Spine Measurements

Arrow	0°	45°	90°	135°	180°	225°	270°	315°
Arrow 1	0.289	0.287	0.279	0.275	0.287	0.284	0.279	0.282
Arrow 2	0.287	0.287	0.282	0.282	0.284	0.284	0.282	0.281
Arrow 3	0.282	0.282	0.282	0.282	0.284	0.279	0.278	0.281
Arrow 4	0.283	0.283	0.282	0.281	0.286	0.287	0.285	0.282
Arrow 5	0.293	0.287	0.280	0.285	0.292	0.282	0.270	0.279
Arrow 6	0.287	0.282	0.276	0.277	0.286	0.282	0.277	0.279

360° Automated Spine Analysis & Radial Consistency Report

Arrow	Average	Minimum	Maximum	Radial Spread	Radial Variation (%)	Maximum deviation from average
Arrow 1	0.283	0.275	0.289	0.0135	4.77%	0.0074
Arrow 2	0.284	0.281	0.287	0.0058	2.04%	0.0034
Arrow 3	0.281	0.278	0.284	0.0058	2.06%	0.0033
Arrow 4	0.284	0.281	0.287	0.0053	1.87%	0.0029
Arrow 5	0.284	0.270	0.293	0.0226	7.98%	0.0134
Arrow 6	0.281	0.276	0.287	0.0106	3.77%	0.0060

Group Spine Summary

Average Group	0.283	
Stiffest Arrow	Arrow 6	0.281
Weakest Arrow	Arrow 2	0.284
Group Spine Spread	0.003	
Group Spine Spread	0.94%	
Difference from Factory Spine	-0.017	
Difference from Factory Spine	-5.80%	

3. Arrow Weight Consistency Results

Each arrow was weighed in the **factory-supplied configuration**, consisting of the carbon shaft **insert nock** and **factory fletchings** was installed during weight measurement.

ARROWS WITH FLETCHES, NOCKS, INSERTS		
Arrow	Total Weight (gr)	Notes
Arrow 1	348.8	0
Arrow 2	353.3	0
Arrow 3	355.4	0
Arrow 4	355.0	0
Arrow 5	354.5	0
Arrow 6	354.4	0
Summary		Weight (gr)
Average		353.6
Minimum		348.8
Maximum		355.4
Total Weight Spread		6.6
Maximum Deviation from Average		4.8
Weight Spread Percentage		1.87%

Across the 6 arrows tested, the total weight spread was **6.6 grain**, representing a **1.87% difference** between the lightest and heaviest arrows.

4. Individual Arrow Radial Spine Profiles







